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—SPACE SHUTTLE—

VERIFICATION OF BOOSTER TRANSITION CHARACTERISTICS FOR TRANSONIC AND SUPERSONIC MACH NUMBERS (M=0.6–5.0)

by

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MSFC 14-INCH
TRISONIC WIND TUNNEL

MARSHALL
SPACE FLIGHT CENTER

NASA

SADSAC SPACE SHUTTLE
AERO THERMODYNAMIC
DATA MANAGEMENT SYSTEM

CONTRACT NAS8-4016
MARSHALL SPACE FLIGHT CENTER

SPACE DIVISION CHRYSLER CORPORATION

NASA Series Number: S-0223

DMS-DR-1152
SEPTEMBER, 1971

SADSAC/SPACE SHUTTLE

WIND TUNNEL TEST DATA REPORT

CONFIGURATION: GD/Convair Aerospace, B9U Booster; .0035 Scale

TEST PURPOSE: Verification Tests on Booster Transition Characteristics in the Transonic and Supersonic Mach Range.

TEST FACILITY: NASA/MSFC 14 x 14 Inch Trisonic Wind Tunnel

TESTING AGENCY: General Dynamic Convair Aerospace

TEST NO. & DATE: MSFC TWT 493; May 26 - June 2, 1971

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CONTRACT NAS 8-4016 AMENDMENT 153 DRL 184 - 58

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ABSTRACT

This report presents the results of the General Dynamics/Convair B-9U booster verification wind tunnel test. These tests were conducted in the Marshall Space Flight Center's 14 x 14-inch trisonic wind tunnel utilizing a .0035 scale model during May-June 1971. The nominal Mach numbers tested were 0.6, 0.9, 0.95, 1.0, 1.05, 1.20, 1.50, 2.0, 2.74, 3.00, 4.50 and 5.0. The angle-of-attack range was +5° to 40°. The yaw data was obtained over a range of -10° to +10° at fixed angles-of-attack of 0°, 6°, 15°, 25°, and 30°. The Reynolds number range was 4.2 to 6.9 million per foot. Results include elevon and canard effectiveness in pitch and rudder, aileron, body flap and tail effectiveness in yaw.

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SUMMARY

Experimental aerodynamic investigations have been conducted in the NASA/MSFC 14 x 14 inch Trisonic Wind Tunnel on a 0.0035 scale model of the General Dynamics Convair (GD/C) proposed space shuttle booster, B9U. Six component force and moment data were recorded and are presented herein in coefficient form for both the body and stability axis systems. The data spanned a Mach number range from .6 to 4.96 and for an angle of attack range from 5° to 40° at 0° sideslip and -10° to 10° sideslip at 0°, 6°, 15°, 25°, 30° angle of attack. Primary configuration variables during these tests were control surface deflections which included the elevon deflected ±10° and -20°, aileron deflection of ±10°, canard deflections of -15° and -30°, rudder deflection of 10°, and rudder flare deflections of 40° and 60°.

The measured value of CY, CYN, and CBL in dataset Z35FCE at Mach number of 1.94 and 4 degrees angle of sideslip were determined as faulty data. The considered data was removed, and the values presented for the aforementioned coefficients are interpolated values between 2 and 6 degrees angle of sideslip respectively.

TABLE I. SADSAC NOMENCLATURE OF AERODYNAMIC COEFFICIENTS

COEFFICIENT	COEFFICIENT NAME	SADSAC NOMENCLATURE		
		BODY AXIS	STABILITY AXIS	WIND AXIS
C_A	Total Axial Force	CA	-	-
C_{AB}	Base Axial Force	CAB	--	-
C_{AF}	Forebody Axial Force	CAF	-	-
C_D	Total Drag Force	-	CD	CDTOTL
C_{DB}	Base Drag Force	-	CDB	CDBASE
C_{DF}	Forebody Drag Force	-	CDF	CDFORE
C_L	Lift Force	-	CL	CL
C_N	Normal Force	CN	-	-
C_Y	Side Force	CY	CY	CC
C_ℓ	Rolling Moment	CBL	CSL	CWL
C_m	Pitching Moment	CLM	CLM	CPM
C_n	Yawing Moment	CYN	CLN	CLN
L/D	Lift-To-Drag Force Ratio	-	L/D	CL/CD
L/D	Lift-To-Forebody Drag Force Ratio	-	L/DF	CL/CDF
N/A	Normal-To-Axial Force Ratio	N/A	-	-
N/A	Normal-To-Forebody Axial Force Ratio	CN/CAF	-	-

CONFIGURATIONS INVESTIGATED

The components and combinations of components tested are listed below.

Symbol	Description	Dwg. No.
B_{25}	Basic body with length of 248.3 ft. (F.S.) and maximum width of 36 ft (F.S.) at tank ℄. (Same as $B_{22}R_4$)	WT-71-106302
W_{19}	Delta wing with 53° LE sweepback and an unswept T.E. with a wing-body fillet and with different airfoils at theo. root, body junction, break and tip	WT-71-106303
C_8	Delta canard with 60° LE sweep full scale exposed area of 503.99 sq. ft., taper ratio .1055, pivot Pt. @56% C_R at Fuse. Sta. 2024" and W.L. 450" full scale.	WT-71-106302
V_{10}	Vertical tail with 35° LE sweep, at taper ratio of 0.5 and a full scale area of 1500 sq. ft.	WT-71-106303
R_4	Rocket engines for B-9U booser, outside (8) engines only with part of top 2 engines removed for high α blade.	WT-71-106302
F_{7L}	Small left hand body flap with full scale area of 75 ft^2 (T.E. of flaps match T.E. of wing in retracted position) swept back of flap H.L. is 50°, flap deflections are 20°, 40°, and 60°.	WT-71-106302
F_{8L}	Same as F_{7L} except full scale area is 150 ft^2, with only a 40° flap deflection.	WT-71-106302
L_1	Indicates vertical tail removed at high angles of attack and on the model for low angles, when high and low angles are plotted together. ($B_{25}W_{19}C_8V_{10}L_1$)	

COMBINATIONS TESTED

$B_{25}W_{19}C_8$

$B_{25}W_{19}C_8V_{10}$

$B_{25}W_{19}C_8F_7$

$B_{25}W_{19}C_8F_8$

NOTE: $B_{25}W_{19}C_8V_{10}L_1$ indicates vertical tail removed at high angles when high and low angle data are plotted together

The above configurations were tested at elevon deflections of $+10^\circ$, 0°, -10° and -20°, aileron deflections of 0° and $+10^\circ$, canard deflections of 0°, -15°, and -30°, rudder deflections of 0° and 10°, and body flap deflections of 0°, 40° and 60° for small body flap and only 40° for the large body flap. Two sting arrangements were utilized to test the models at an angle of attack range of $+5^\circ$ to 40°. The yaw range was -10° to $+10^\circ$ or -4° to $+10^\circ$ depending upon the sting support.

TEST *MSFC TWT 493* DATA SET/RUN NUMBER

COLLATION SUMMARY

☐ PRETEST 8

☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δc	δa	δe	δr	F	NO. of RUNS	0.60	0.90	0.95	1.0	1.05	1.20	1.50	2.0	2.74	3.0	4.5	5.0
R35EAO	B25 W19 C8 V10	A	0	0	0	0	0	0	10	35	36	37	38	39	40	62	1	65	64		
EBO	B25 W19 C8	B				0			3								94		100	99	
EAA	B25 W19 C8 V10	A				10			8	88	43		42		41		2	68	67		66
EBA	B25 W19 C8	B				10			2										102	101	
EAB	B25 W19 C8 V10	A				-20			7	89	44		45		46		3	70	69		
EBB	B25 W19 C8	B				-20			2										104	103	
EAC	B25 W19 C8 V10	A		0		-10			6		49		48		47		4	72	71		
CAA	B25 W19 C8 V10	A		-15		0			4		50		51		52		5				
CBA	B25 W19 C8	B		-15					2										108	107	
CAB	B25 W19 C8 V10	A		-30					6		55	54			53		6		74		73
CBB	B25 W19 C8	B	0	-30					2										110	109	
OCA	B25 W19 C8	30	C	0					3										112	111	118
OCB	B25 W19 C8	25							6		90		91		92		93		106		105
TCC	B25 W19 C8 V10	15							6				28		29	56	7		76		75
TCD	B25 W19 C8 V10	6	C						4						63	61			81		80
TDA	B25 W19 C8 V10	0	D				0		7		19		20		21	60	12		83		82
RDB	B25 W19 C8 V10	0	D				10		6				23		22	59	14		85		84
OCC	B25 W19 C8	15	C				-		6				27		26	57	8		78		77
ODA	B25 W19 C8	0	D		0		-		4				24		25	58	13				
R35ADA	B25 W19 C8 V10	0	D	0	10	0	0	0	6		18		17		16		15		87		86

TEST RUN NUMBERS

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

CLM CN CA CY CBL CYN CAB CAF CAC

COEFFICIENTS: IDPVAR(1) | IDPVAR(2) | NDV

α or β SCHEDULES

α(A) = 5° TO 25° β(C) = -10° TO 10°

α(B) = 20° TO 40 β(D) = -4° TO 10

NASA-MSFC-MAF

TEST MSFC TWT 493 DATA SET/RUN NUMBER

COLLATION SUMMARY

☐ PRETEST

☒ ~~POSTTEST~~

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_c	δ_a	δ_e	δ_r	F	NO. of RUNS	0.60	0.90	0.95	1.0	1.05	1.20	1.50	2.0	2.72	3.0	4.5	5.0
R35ACA	B25W19C8V1.0	15	C	0	10	0	0	0	2						30		9				
FCA	B25W19C8F7	30			0			40	3								96		116		115
FCB	B25W19C8F7	15						40	3						34		10		79		
FCC	B25W19C8F7	30						60	3								97		114		113
FCD	B25W19C8F8	30						40	3								98		95		117
R35FCE	B25W19C8F8	15	C	0	0	0	0	40	4		33		32		31		11				

TEST RUN NUMBERS

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

COEFFICIENTS: → IDPVAR(1) | IDPVAR(2) | NDV

α or β
SCHEDULES

TEST FACILITY DESCRIPTION

The Marshall Space Flight Center 14" x 14" Trisonic Wind Tunnel is an intermittent blowdown tunnel which operates by high pressure air flowing from storage to either vacuum or atmospheric conditions. A Mach number range from .2 to 5.85 is covered by utilizing two interchangeable test sections. The transonic section permits testing at Mach 0.20 through 2.50, and the supersonic section permits testing at Mach 2.74 through 5.85. Mach numbers between .2 and .9 are obtained by using a controllable diffuser. The range from .95 to 1.3 is achieved through the use of plenum suction and perforated walls. Mach numbers of 1.44, 1.93 and 2.50 are produced by interchangeable sets of fixed contour nozzle blocks. Above Mach 2.50 a set of fixed contour nozzle blocks are tilted and translated automatically to produce any desired Mach number in .25 increments.

Air is supplied to a 6000 cubic foot storage tank at approximately -40°F dew point and 500 psi. The compressor is a three-stage reciprocating unit driven by a 1500 hp motor.

The tunnel flow is established and controlled with a servo actuated gate valve. The controlled air flows through the valve diffuser into the stilling chamber and heat exchanger where the air temperature can be controlled from ambient to approximately 180°F. The air then passes through the test section which contains the nozzle blocks and test region.

Downstream of the test section is a hydraulically controlled pitch sector that provides a total angle of attack range of 20° (±10°). Sting offsets are available for obtaining various maximum angles of attack up to 25°.

TEST FACILITY DESCRIPTION

(CONTINUED)

The diffuser section has movable floor and ceiling panels which are the primary means of controlling the subsonic Mach numbers and permit more efficient running supersonically. The sector assembly and supersonic diffuser telescope into the subsonic diffuser to allow easy access to the model and test section.

Tunnel flow is exhausted through an acoustically damped tower to atmosphere or into the vacuum field of 42,000 cubic feet. The vacuum tanks are evacuated by vacuum pumps driven by a total of 500 hp.

Data is recorded by a solid state digital data acquisition system. The digital data is transferred to punched cards during the run to be reduced later by a computer to proper coefficient form.

The tunnel components and performance are discussed in more detail in NASA TM X-53185, dated December 22, 1964, and NASA TM X-53113, dated August 20, 1964.

TEST CONDITIONS
TEST TWT-493

MACH NUMBER	REYNOLDS NUMBER per foot	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
.60	6.4×10^6	5.59	100
.90	6.8	8.02	99
.96	6.8	8.26	99
1.00	6.7	8.41	100
1.04	6.6	8.49	101
1.20	6.6	8.96	101
1.50	6.5	9.56	103
2.00	6.9	10.07	102
2.74	4.9	5.99	103
3.00	4.2	4.88	100
4.45	5.2	3.57	103
5.00	5.5	3.07	101

BALANCE UTILIZED: TWT Model 200, 6-Component Balance

CAPACITY:		ACCURACY:	COEFFICIENT TOLERANCE:
NF	175 (lbs)		
SF	150 (lbs)		
AF	100 (lbs)		
PM	185 (in-lb)		
YM	160 (in-lb)		
RM	50 (in-lb)		

COMMENTS:

DATA REDUCTION

The calculation of the aerodynamic coefficients were about the body and stability axis reference systems. Data reduction included static tare, base pressure, and balance cavity pressure corrections to the balance recorded data. The model dimensional data utilized in computing the aerodynamic coefficients are listed in TABLE 11 below:

TABLE 11

	Full Scale	Model Scale
Area (S_{ref}) wing theoretical area	8451 ft^2	14.904 in^2
Length (c) wing theoretical MAC	71.72 ft	3.012 in
Span (b) wing theoretical span	143.5 ft	6.018 in
Base Area A_b:		
With straight sting, A_b =		1.358 in^2
With blade support, A_b =		1.295 in^2
Balance Cavity Base Area (A_c):		
With straight sting, A_c		.801 in^2
With blade support, A_c		.864 in^2
Balance Cavity Planform Area		
With blade support A_{cp}		.32 in^2
Axial Transfer Distance from		
BMC to MRC X_1		-.215 in (MRC is fwd of BMC)
Moment Arm from MRC to Centroid of A_{cp}, X_2		-2.631 (MRC is fwd of BMC)
Body Length (nose of model to T.E. of wing) (ℓ_{ref})		10.734 in

NOTE: (1) A_{cp} and X_2 = 0 when straight sting is used.

The base pressure taps are located as shown on Figure 6 and the blade pressure tap is shown on Figure 7

Those equations where base pressure, cavity or surface pressure effects were accounted for are listed below.

Body Axis

(1) Normal Force Coefficient, (C_N)

$$C_N = \left[F_{NG} + (P_c - P_{sl})\, A_{cp} \right] \frac{1}{q_\infty\, S_{(ref)}}$$

(2) Axial Force Coefficient, C_{A_T} and C_{A_F}

$$C_{A_T} = \left[F_{AG} + (P_c - P_{b_A})\, A_c \right] \frac{1}{q_\infty\, S_{(ref)}}$$

$$C_{AF} = C_{A_T} - C_{A_B}$$

(3) Pitching Moment Coefficient, (C_m)

$$C_m = \frac{M_{PG}}{q_\infty\, \bar{c}\, S_{(ref)}} + C_N \frac{X_1}{\bar{c}} - \frac{(P_c - P_{sl})\, A_{cp}\, X_2}{q_\infty\, S_{(ref)}\, \bar{c}}$$

SUMMARY DATA PLOT INDEX

SUMMARY DATA PLOT INDEX
(Continued)

PLOT TITLE	PLOTTED COEFFICIENT SCHEDULE	CONDITIONS VARYING	NOMINAL MACH NUMBER	NOMINAL α SCHEDULE (DEGREES)	NOMINAL β SCHEDULE (DEGREES)	PAGES
Effect of Mach Number on the B-9U Configuration (Canard Deflection = 0)	B	Mach Number	.60-4.45	5 - 25	0	90-91
Effect of Mach Number on the B-9U Configuration (Canard Deflection = -15)	A	Mach Number	.9-4.45	5 - 25 / 20-37	0	92-97
Effect of Mach Number on the B-9U Configuration (Canard Deflection = -15)	B	Mach Number	.9-4.45	5 - 25 / 20-37	0	98
Effect of Mach Number on the B-9U Configuration (Canard Deflection = -30)	A	Mach Number	.9-4.96	5 - 37	0	99-104
Effect of Mach Number on the B-9U Configuration (Canard Deflection = -30)	B	Mach Number	.9-4.96	5 - 37	0	105
Canard Effectiveness on the B-9U Configuration	A	Canard Deflection Angle	.9-1.95	5 - 24	0	106-135
Canard Effectiveness on the B-9U Configuration	A	Canard Deflection Angle	2.99	5 - 37	0	136-141
Canard Effectiveness on the B-9U Configuration	A	Canard Deflection Angle	4.45	20 - 33	0	142-147
Canard Effectiveness on the B-9U Configuration	B	Canard Deflection Angle	.9-1.95	5 - 24	0	148-152
Canard Effectiveness on the B-9U Configuration	B	Canard Deflection Angle	2.99	5 - 37	0	153

SUMMARY DATA PLOT INDEX
(Continued)

PLOT TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	NOMINAL MACH NUMBER	NOMINAL α SCHEDULE (DEGREES)	NOMINAL β SCHEDULE (DEGREES)	PAGES
Canard Effectiveness on the B-9U Configuration	B	Canard Deflection	4.45	20 - 33	0	154
Lateral-Directional Data With Varying Alpha for the Complete B-9U Configuration	C	Angle of Attack	1.0-5.0	0,6,15	-11 - 11	155-172
Lateral-Directional Data With Varying Alpha for the B-9U Configuration With Tail Off	C	Angle of Attack	1.0-5.0	0,15,25,30	-12 - 12	173-190
Lateral-Directional Data With Varying Mach No. For the Complete B-9U Configuration	C	Mach Number	1.0-5.0	0,6,15	-3 - 17	191-211
Lateral-Directional Tail and Rudder Effectiveness for B-9U Configuration (Alpha = 0)	C	Rudder and Tail Deflection Angle	1.0-5.0	0	-2 - 11	212-229
Lateral-Directional Rudder Data With Varying Mach No. for B-9U Configuration	C	Mach Number	1.0-5.0	0	-4 - 16	230-232
Lateral-Directional Data Tail on and off for B-9U Configuration (Alpha = 15)	C	Configuration	1.0-5.0	15	-11 - 11	233-250
Lateral-Directional Aileron Data for B-9U Configuration (Alpha = 0)	C	Aileron Deflection Angle	.9-5.0	0	-2 - 11	251-268
Lateral-Directional Aileron Data for B-9U Configuration (Alpha = 15)	C	Aileron Deflection Angle	1.2-1.96	15	-11 - 11	269-274

SUMMARY DATA PLOT INDEX
(Continued)

PLOT TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	NOMINAL MACH NUMBER	NOMINAL α SCHEDULE (DEGREES)	NOMINAL β SCHEDULE (DEGREES)	PAGES
Lateral-Directional Small Body Flap Effectiveness for B-9U Configuration (Alpha = 30)	C	Small Body Flap Deflection Angle	1.97-5.0	30	-12 - 12	275-283
Lateral-Directional Small Body Flap Effectiveness for B-9U Configuration (Alpha = 15)	C	Small Body Flap Deflection Angle	1.19-3.0	15	-11 - 11	284-292
Lateral-Directional Large Body Flap Effectiveness for B-9U Configuration (Alpha = 30)	C	Large Body Flap Deflection Angle	3.0-5.0	30	-11 - 11	293-298
Lateral-Directional Large Body Flap Effectiveness for B-9U Configuration (Alpha = 15)	C	Large Body Flap Deflection Angle	1.0-1.96	15	-11 - 11	299-307
Lateral-Directional Data Small and Large Body Flaps for B-9U Configuration (Alpha = 15)	C	Small & Large Body Flap Deflection Angle	1.0-1.96	15	-11 - 11	308-316
Lateral-Directional Data Small and Large Body Flaps for B-9U Configuration (Alpha = 30)	C	Small & Large Body Flap Deflection Angle	1.95-5.0	30	-12 - 12	317-328
Lateral-Directional Incremental Coefficients Due to Control Deflections	D	Angle of Attack	.9-3.0	5 - 23	0	329-403
Lateral-Directional Incremental Coefficients Due to Control Deflections	E	Angle of Attack	.9-2.0	5 - 23	0	404-448

SUMMARY DATA PLOT INDEX
(Continued)

PLOT TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	NOMINAL MACH NUMBER	NOMINAL α SCHEDULE (DEGREES)	NOMINAL β SCHEDULE (DEGREES)	PAGES
Lateral-Directional Longitudinal Partial Derivatives	F	Angle of Attack	.9-3.0	5 - 23	0	449-463
Lateral-Directional Longitudinal Partial Derivatives	G	Angle of Attack	.9-2.0	5 - 23	0	464-472

PLOTTED COEFFICIENTS SCHEDULE:

SCHEDULE A

CN vs. α
CL vs. α
CA vs. α
CAF vs. α
CLM vs. α
L/D vs. α

SCHEDULE B

CN vs. CLM

SCHEDULE C

CY vs. β
CYN vs. β
CBL vs. β

SCHEDULE D

DLTCN vs. DLTELV
DCTCLM vs. DLTELV
DLTCA vs. DLTELV

SCHEDULE E

DLTCN vs. DLTCND
CLTCLM vs. DLTCND
DLTCA vs. DLTCND

SCHEDULE F

DCN/DE vs. α
DCLMDE vs. α
DCA/DE vs. α

SCHEDULE G

DCN/DC vs. α
DCLMDC vs. α
DCA/DC vs. α

FIGURES

Notes:

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

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

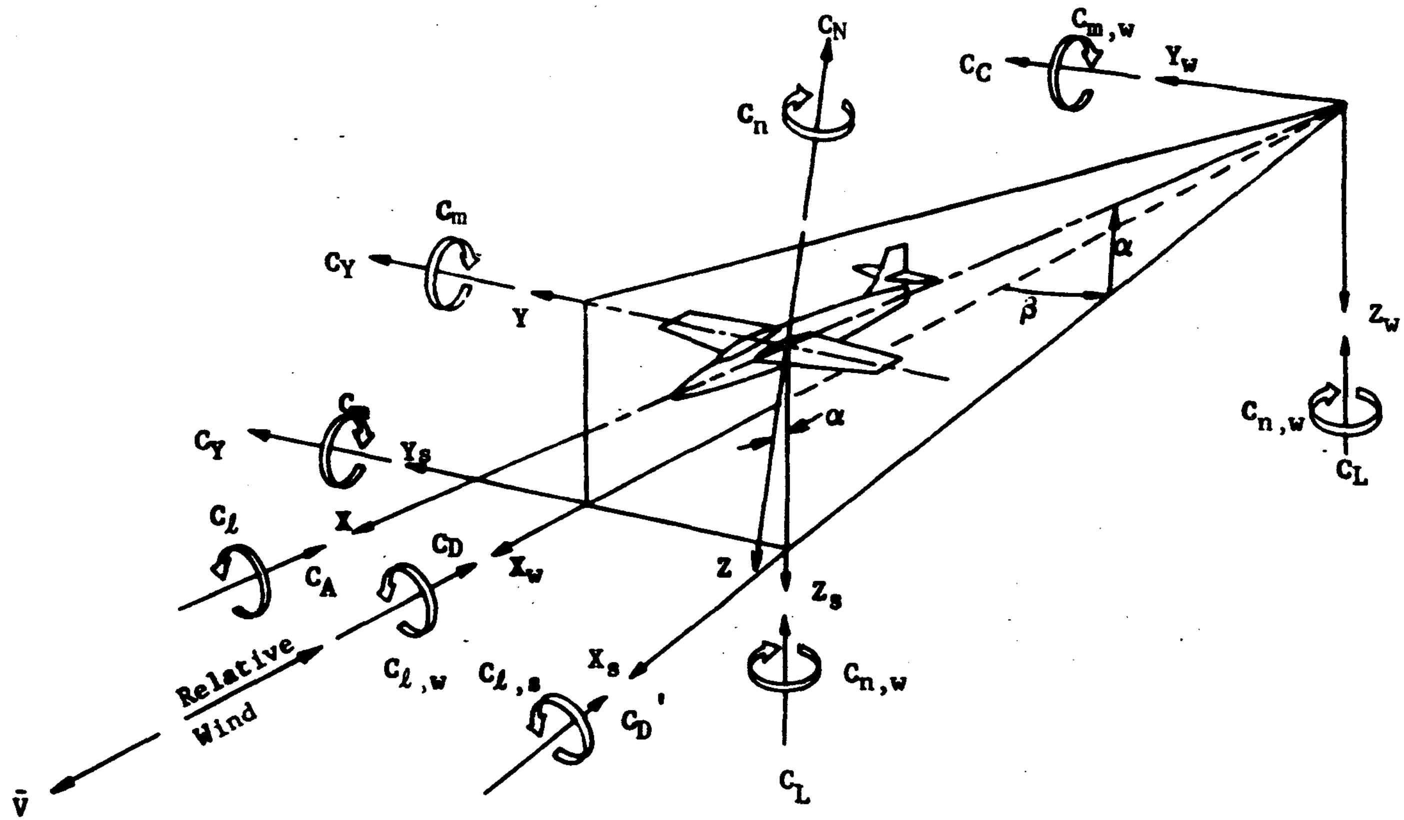


Figure 1. Axis systems, showing direction and sense of force and moment coefficients, angle of attack, and sideslip angle

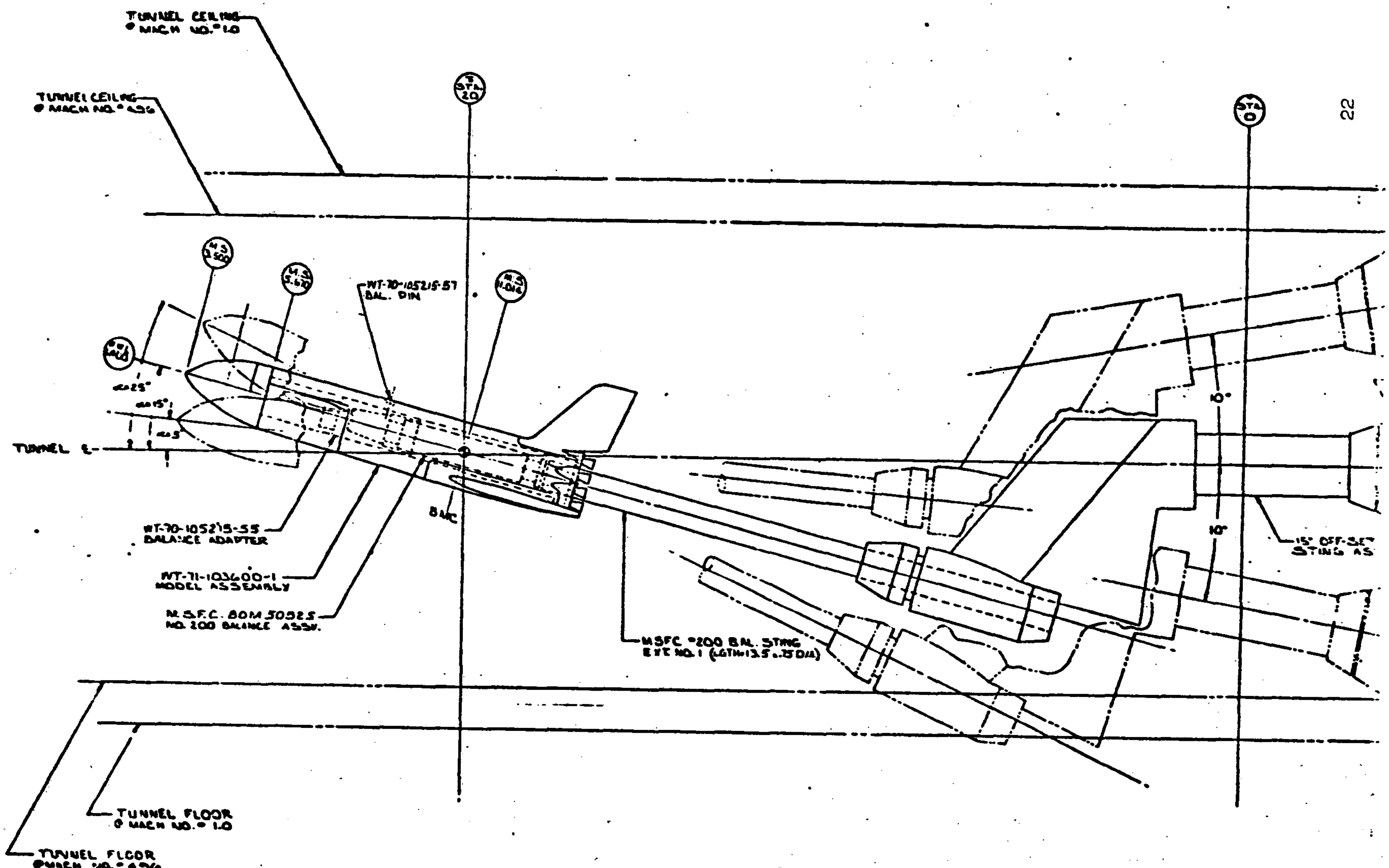


Figure 2. $\alpha = 5^\circ - 25^\circ$ TUNNEL INSTALLATION

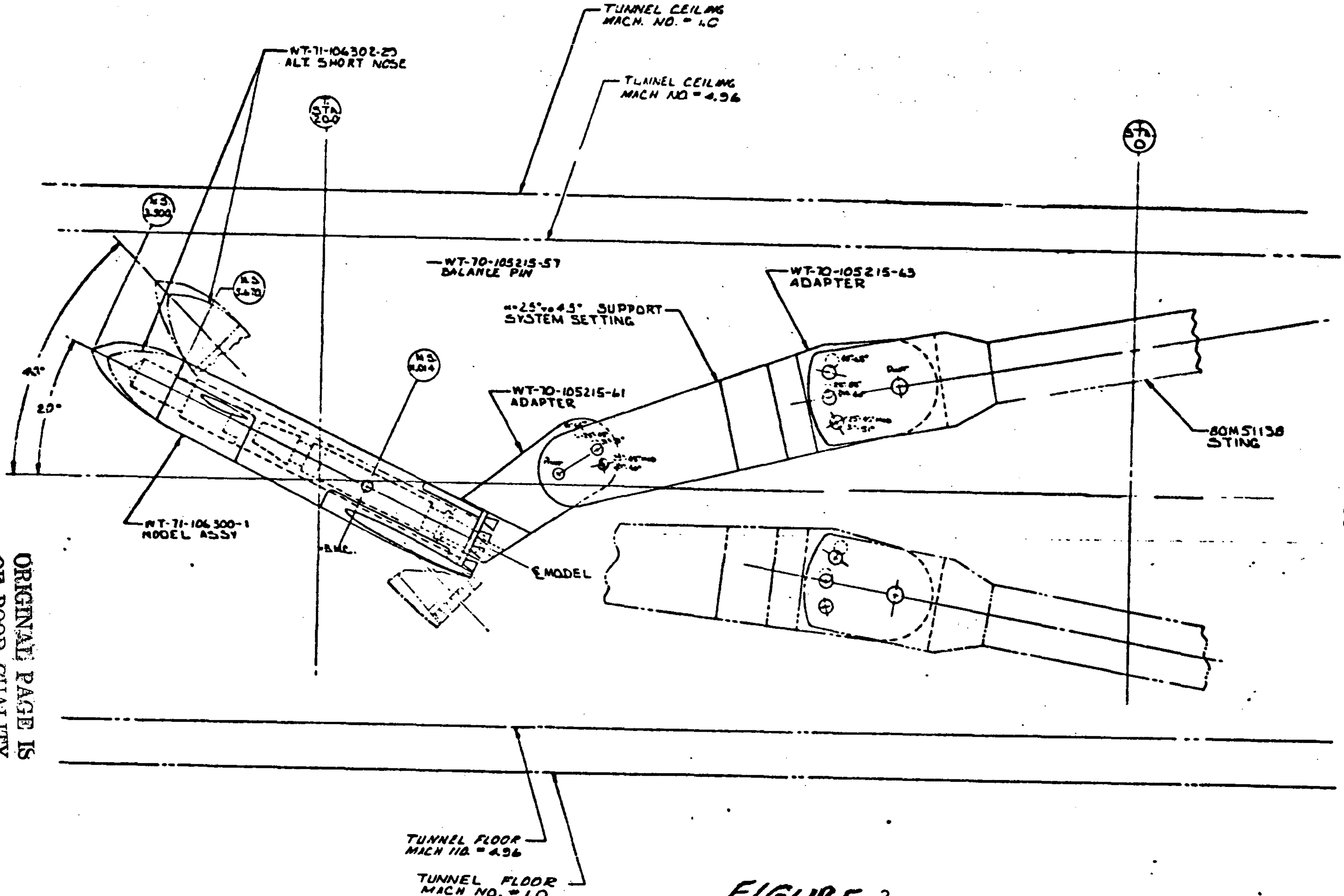


FIGURE 3.
α = 20° - 40° TUNNEL INSTALLATION

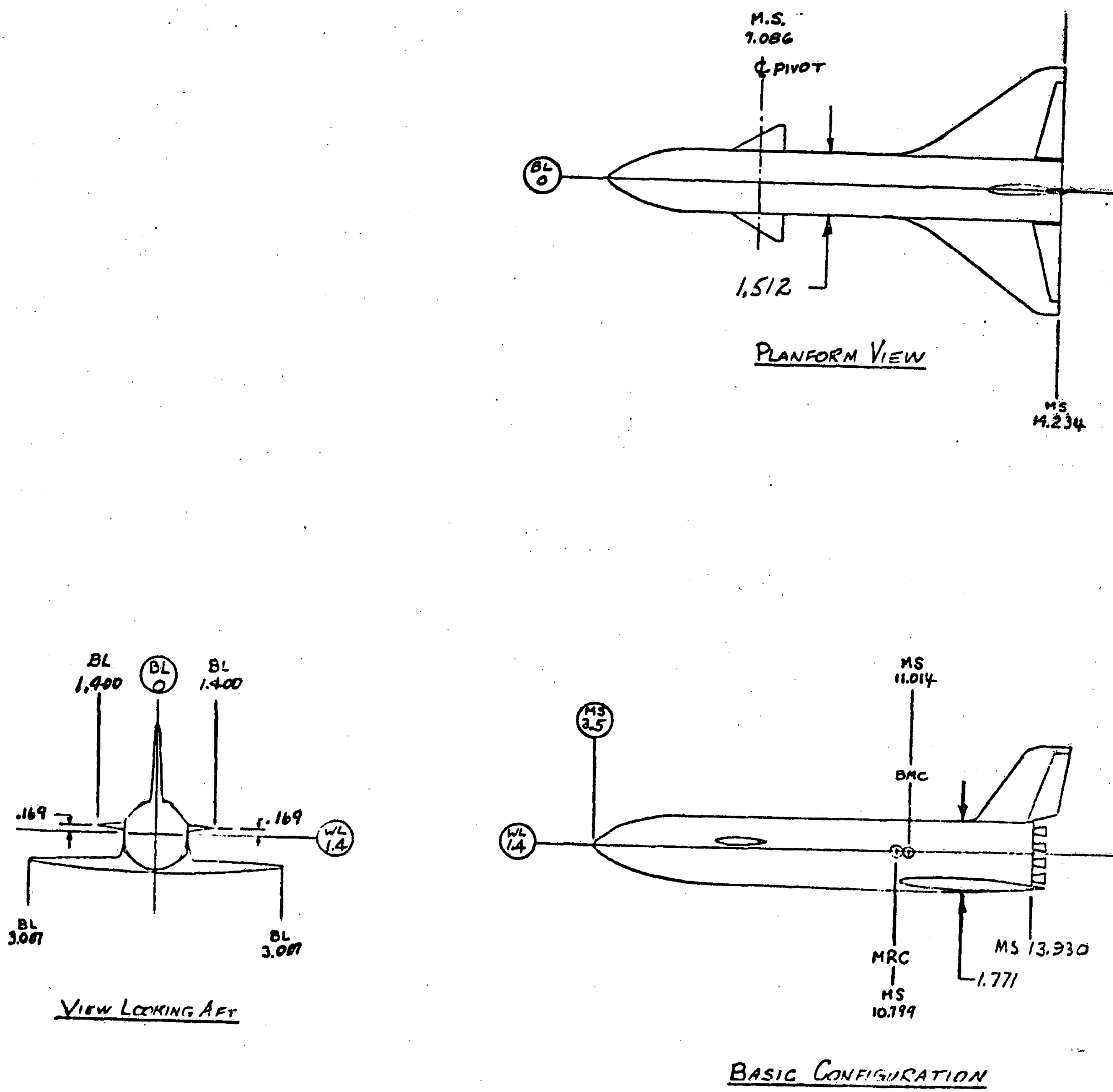


Figure 4. Model Three-View

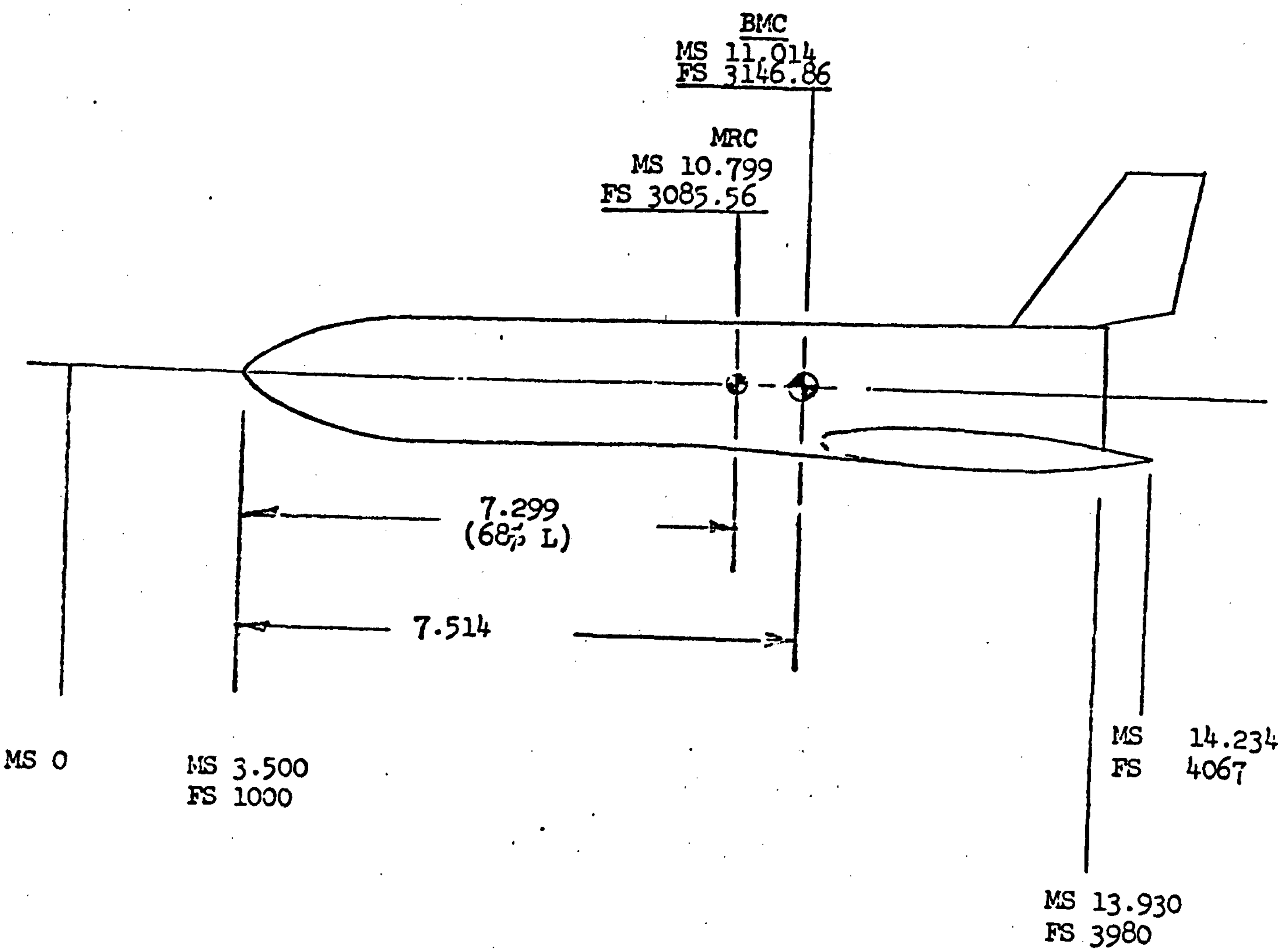
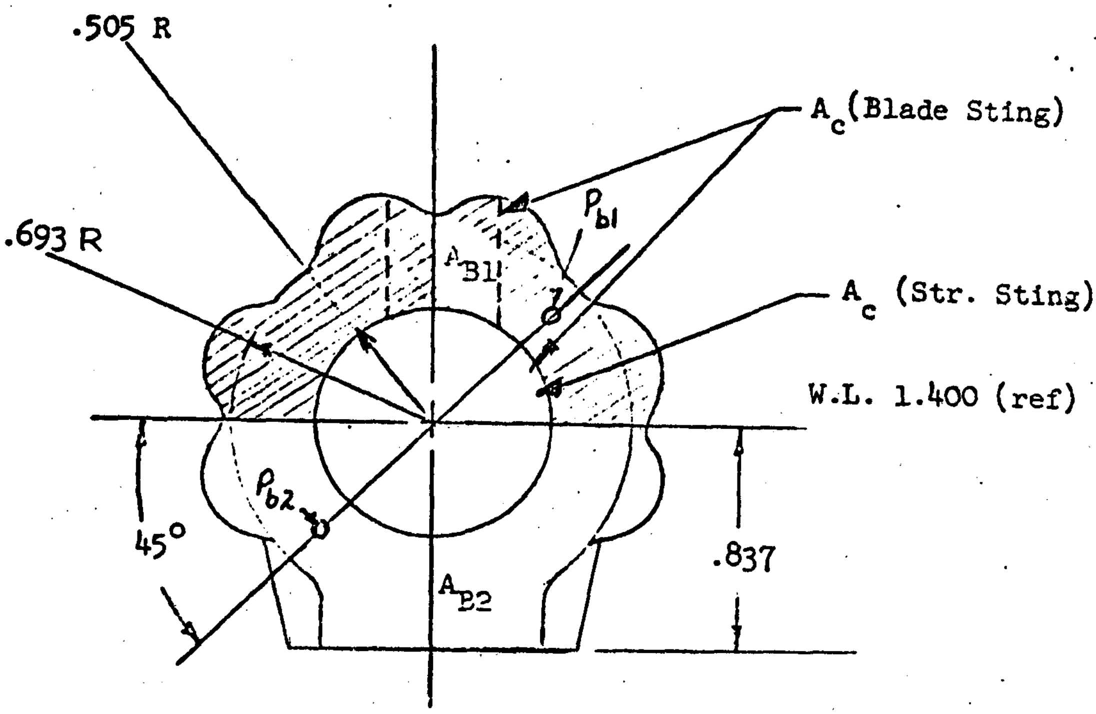


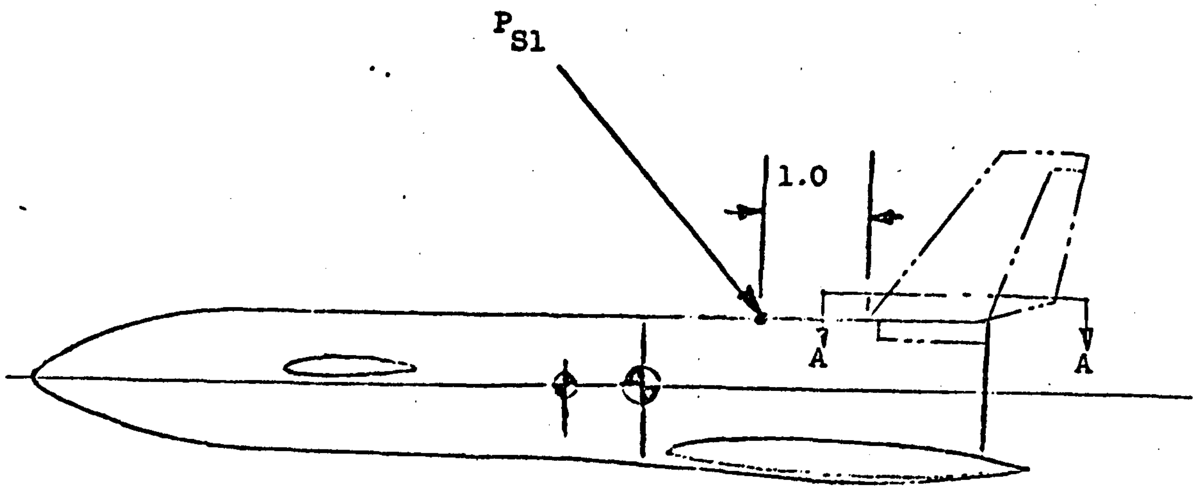
Figure 5. Moment Transfer Diagram

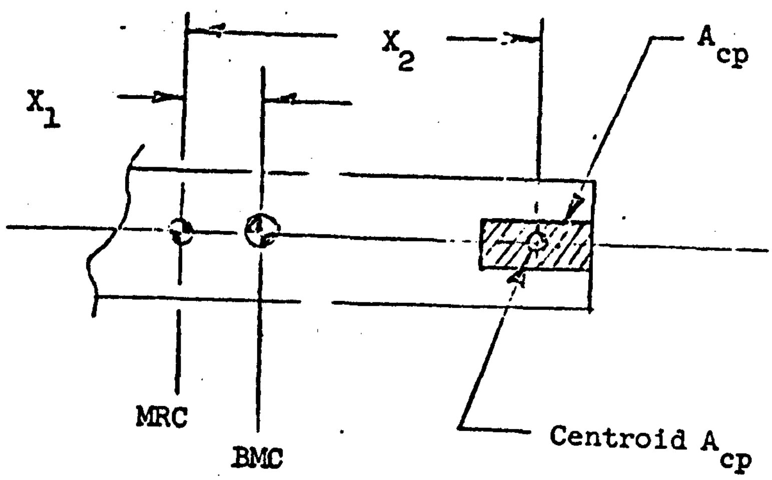
STING CONFIG.	AREA (SQ.IN.)			TOTAL AREA	
	A_{B1}	A_{B2}	A_C		
STRAIGHT STING	.454	.904	.801	2.159	
BLADE STING	.391	.904	.864	2.159	



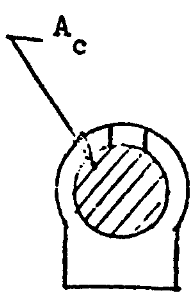
View Looking Forward

Figure 6. Base Pressure Tap Locations





SECTION A-A



X_1 = -.215 INCHES

X_2 = -2.631 INCHES

NOTE: A_c has different value for conventional straight sting

Figure 7. Location of Blade Pressure Tap and Moment Arms and Vertical Tail Cavity.

MEASURED DIMENSIONS

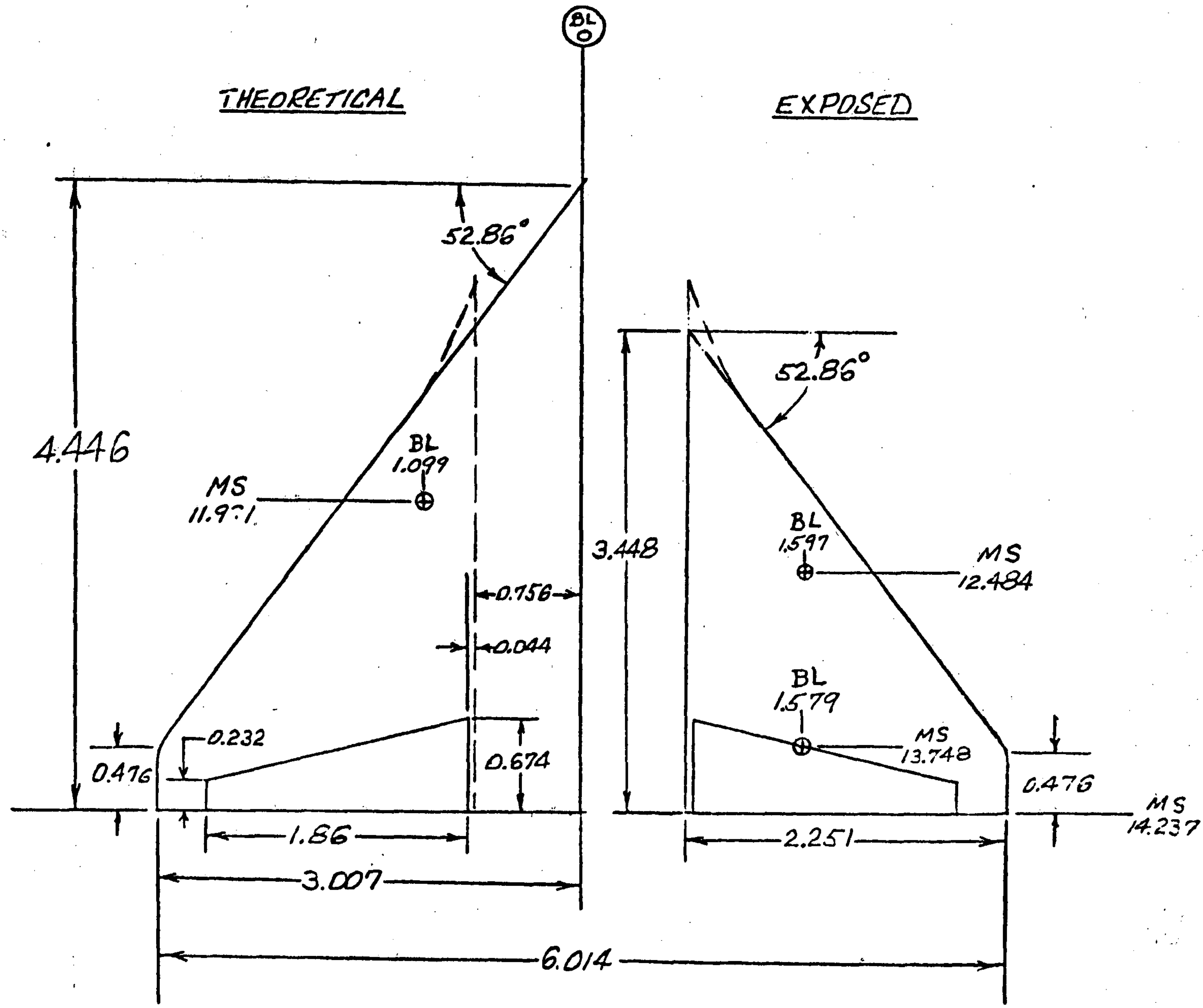


Figure 8. Wing - W_{19}

MEASURED DIMENSIONS

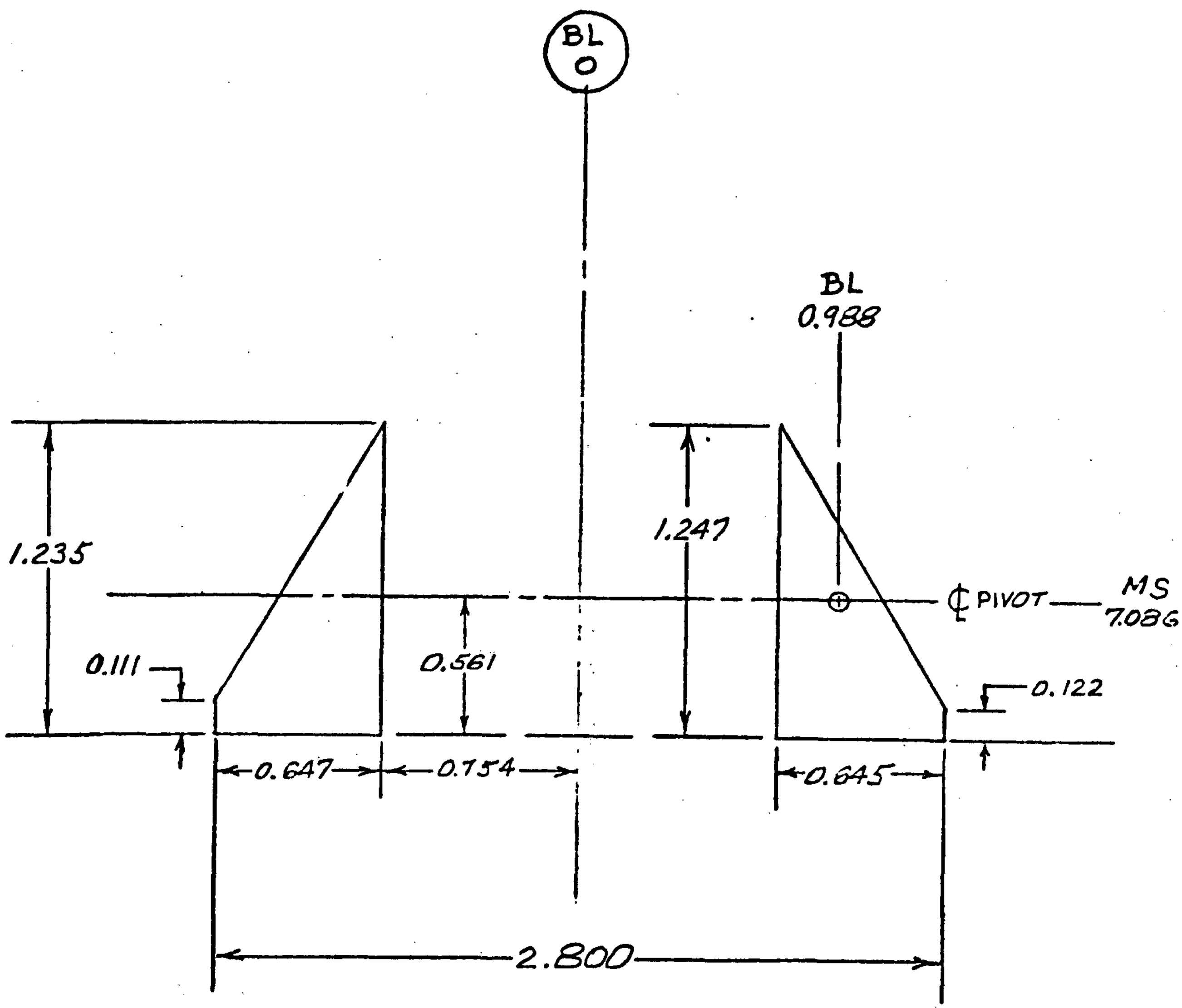


Figure 9. Canard - C_8

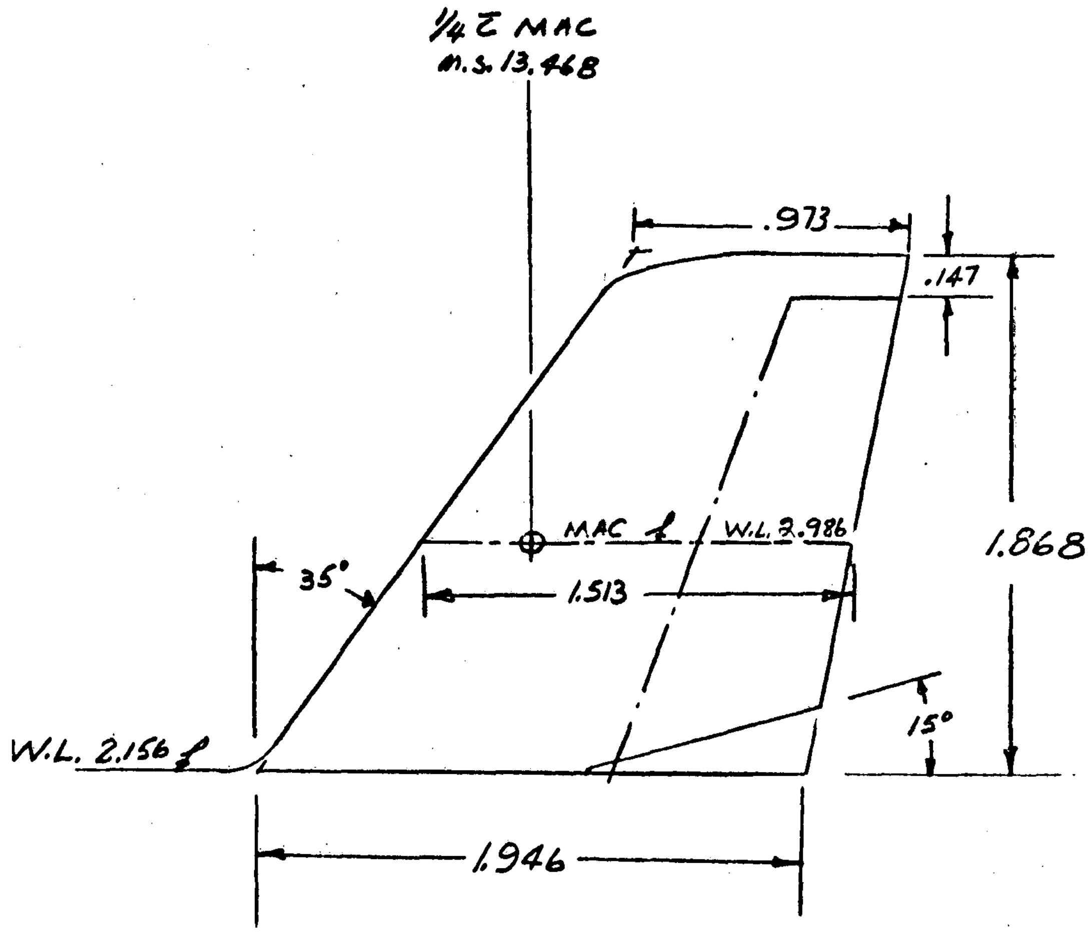


Figure 10. Vertical Tail - V_{10}

FLAP PIVOTS DOWN FROM WING LOWER SURFACE

	A	B
F_7	.471	.561
F_8	.667	.795

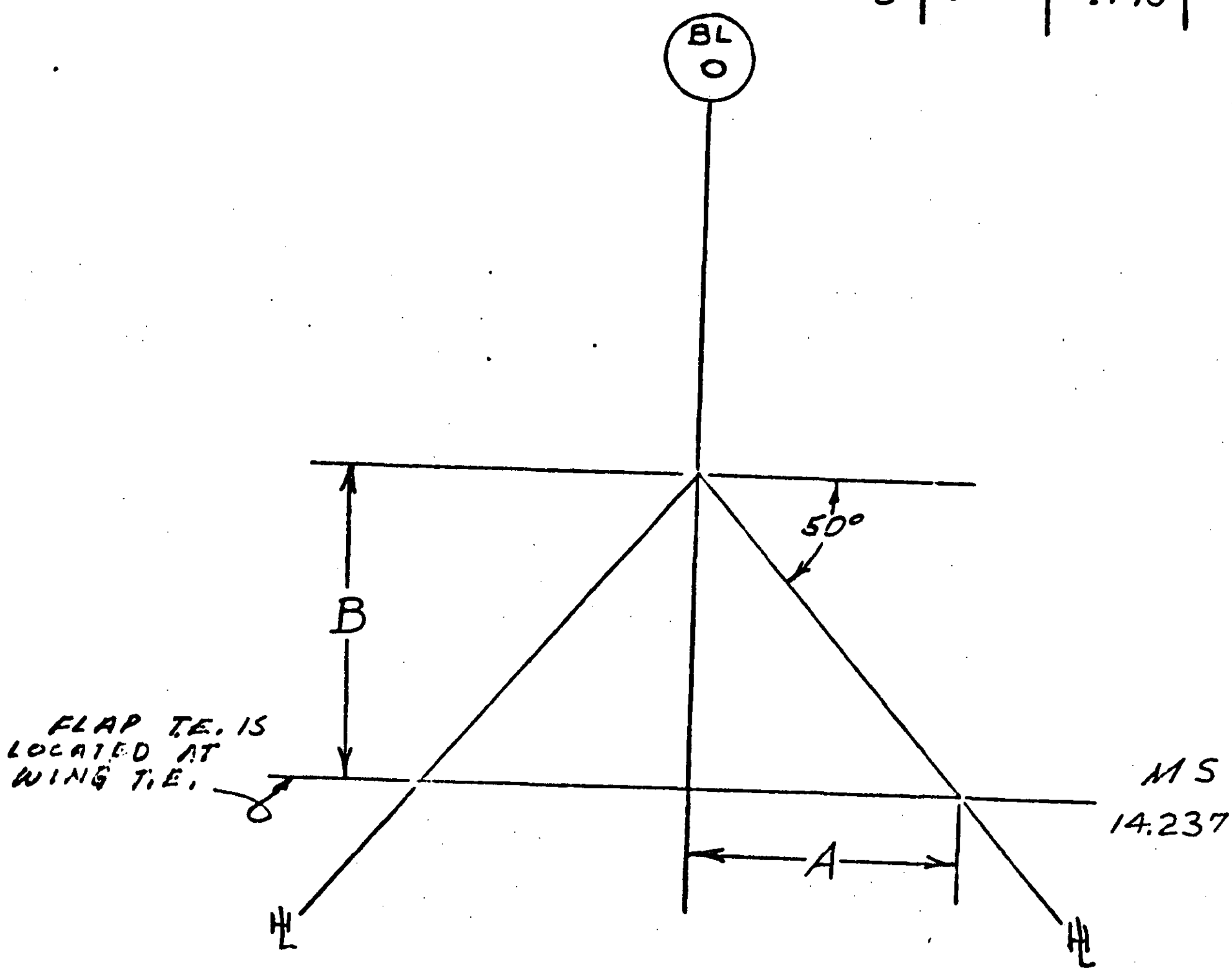


Figure 11. Body Flap - F_7, F_8

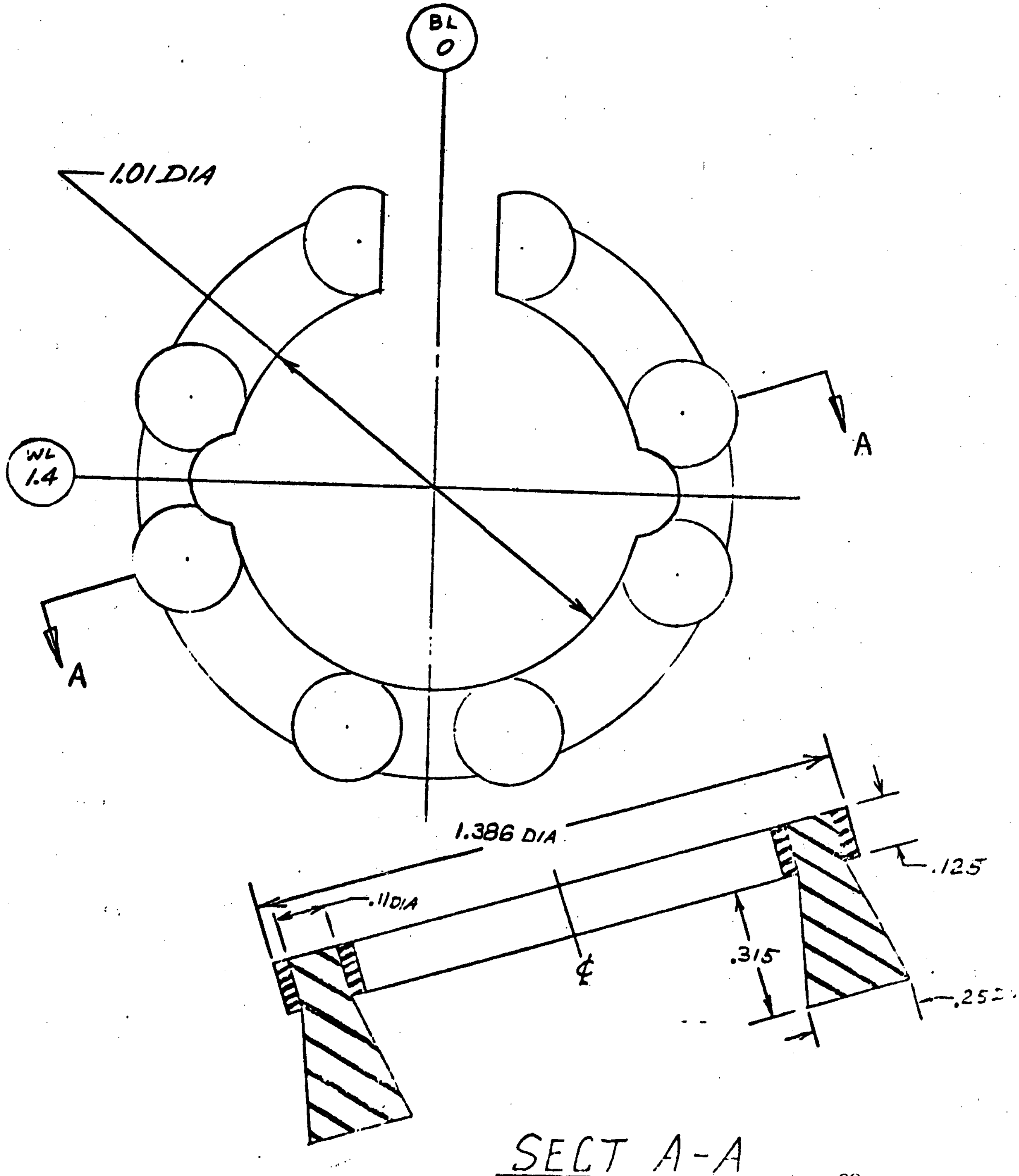


Figure 12. Rocket Engines - R4

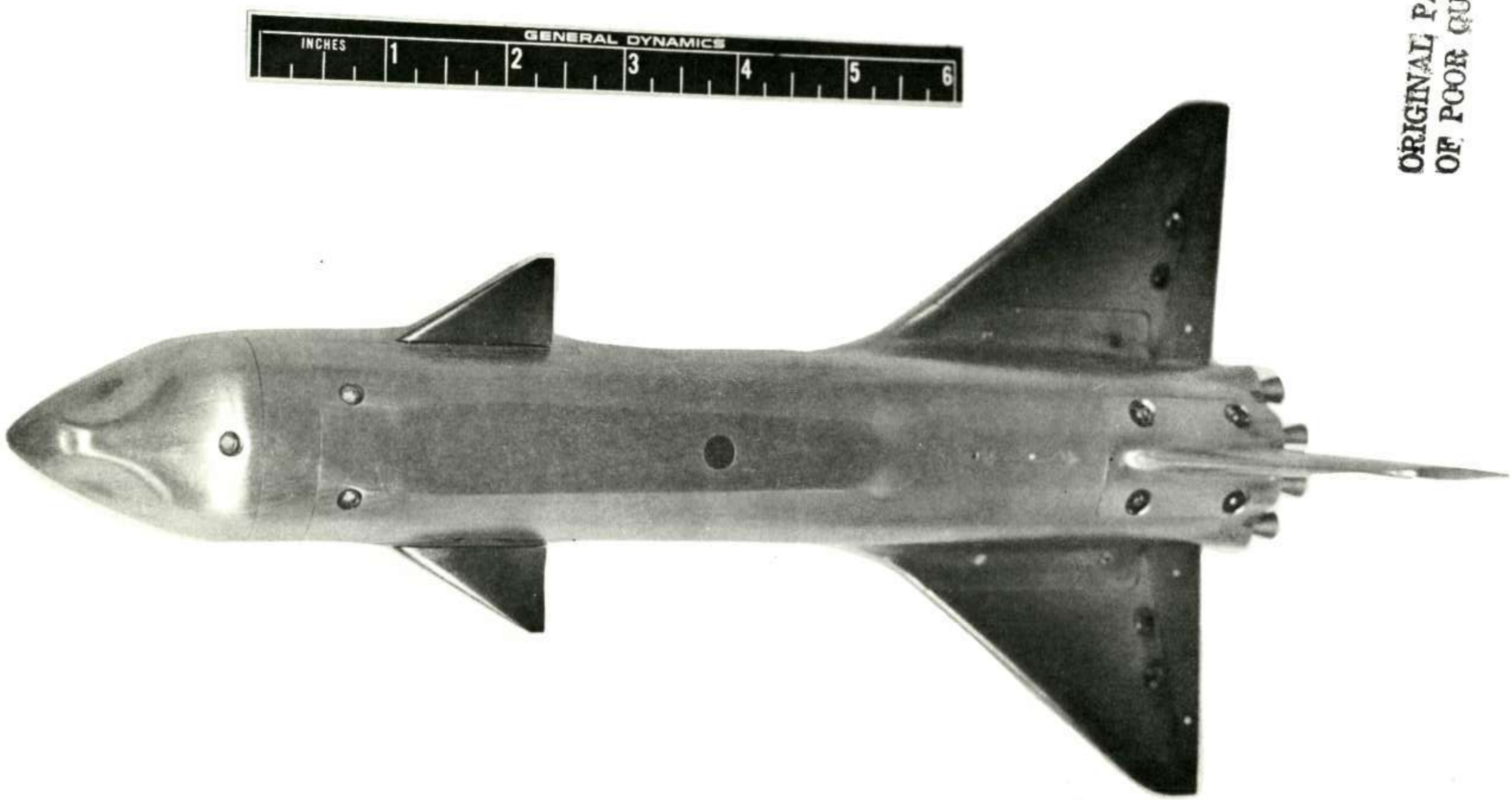


Figure 13. Planview of .0035 Scale Model

Figure 14. Sideview of .0035 Scale Model

Figure 15. Schlieren Photo of Model at Mach = 3.00 With Blade Support (Run 104)

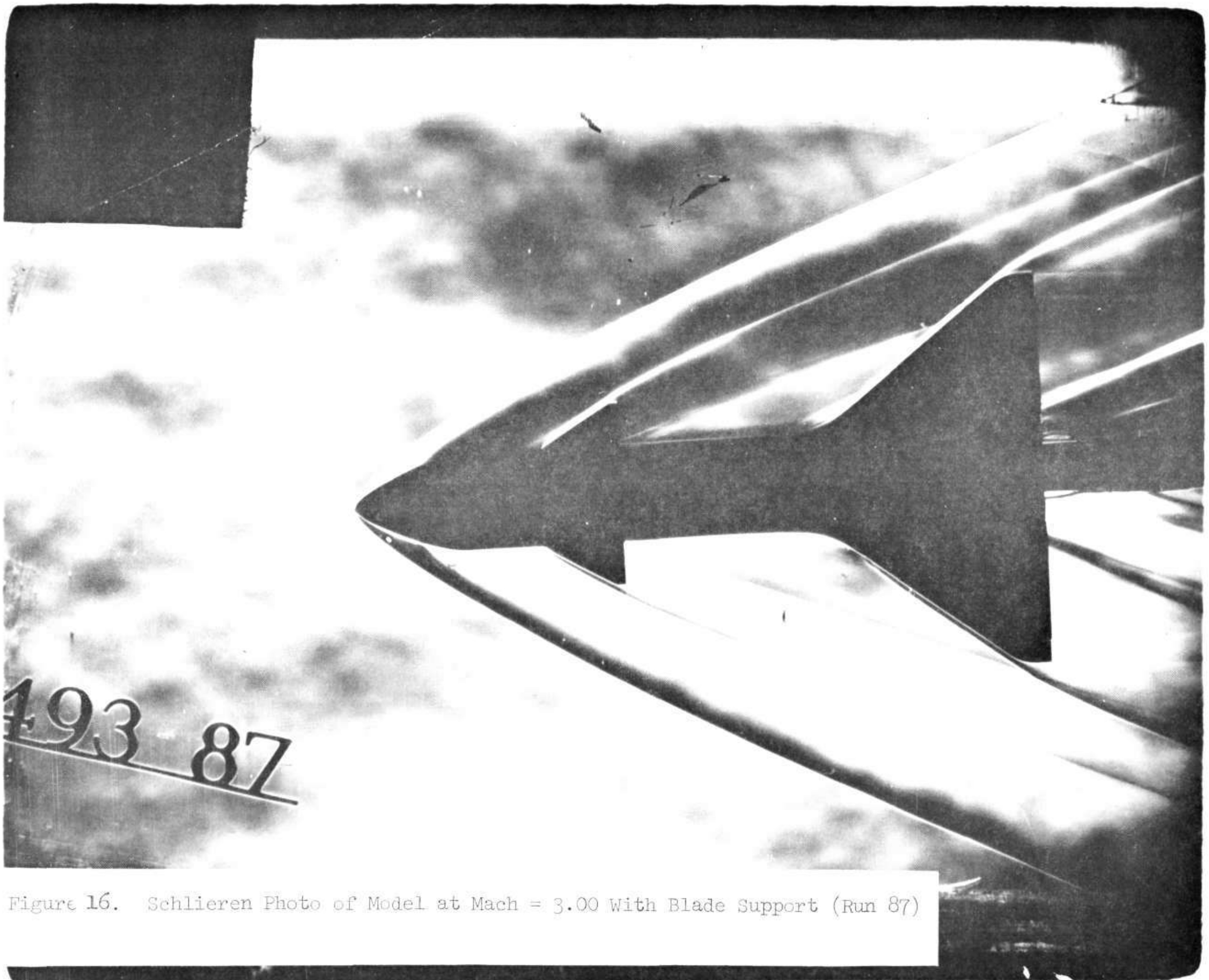


Figure 16. Schlieren Photo of Model at Mach = 3.00 With Blade Support (Run 87)

MODEL COMPONENT DESCRIPTION SHEETS

MODEL COMPONENT: BODY - B_{25}

GENERAL DESCRIPTION: B-9U, symmetrical about buttline 0.0 the body varies from a round cross section near the nose to a flat bottom cross section for the center and aft end, providing a natural fairing for the delta wing. (same as B_{22} with R_4 rocket engines).

DRAWING NUMBER: WT-71-106302

DIMENSIONS:

		FULL-SCALE	MODEL SCALE
Length		248.3 ft	10.430 in
Max. Width	At wing intersect.	40 ft	1.680 in
	At tank C_L	36 ft	1.512 in
Max. Depth	@Sta. 3500 FS to lower surf. of wing	41 ft	1.722 in
Fineness Ratio		6.23	6.23
Area			
Max. Cross-Sectional		1319 sq.ft	2.326 in^2
Planform (to wing junction)		8728 sq.ft	15.395 in^2
Wetted	Incl. center sect. to wing junction, less base	29,664 sq.ft	52.327 in^2
Base		1062 sq.ft.	1.874 in^2

MODEL COMPONENT: Wing - W_{19}

GENERAL DESCRIPTION: Delta wing with 53° L.E. sweepback and an unswept T.E. with a wing-body fillet and with diff. airfoils at theo. root, body junction, break and tip.

DRAWING NUMBER: WT-71-106303

DIMENSIONS:

		FULL-SCALE		MODEL SCALE
TOTAL DATA				
Area				
Planform		8451.0 ft^2		14.904 in^2
Wetted				
Span (equivalent)		143.5 ft		6.018 in
Aspect Ratio		2.444		2.444
Rate of Taper				
Taper Ratio		.107		.107
Diehedral Angle, degrees		3°		3°
Incidence Angle, degrees		2°		2°
Aerodynamic Twist, degrees				
Toe-In Angle				
Cant Angle				
Sweep Back Angles, degrees				
Leading Edge		52.86°		52.86°
Trailing Edge		0°		0°
0.25 Element Line				
Chords:				
Root (Wing Sta. 0.0)		1270 in		4.446
Tip, (equivalent)		136 in		.476
MAC		860.64 in		3.012
Fus. Sta. of .25 MAC	Sta.	3425	Sta.	11.991
W.P. of .25 MAC				.761
B.L. of .25 MAC				1.099
Airfoil Section				
Root (BL 216 in f.s.)	NACA	0007.1-64		
Tip	NACA	0010-64 (MOD L.E)		
Body junction	NACA	0008.46-64		
Break	NACA	0010.3-64		
EXPOSED DATA				
Area		5007 ft^2		8.833 in^2
Span, (equivalent)		107.19 ft		4.502 in
Aspect Ratio		2.295		2.295
Taper Ratio		.138		.138
Chords				
Root		985.1 in		3.448 in
Tip		130.0 in		.476 in
MAC		667.7 in		2.337 in
Fus. Sta. of .25 MAC				12.484
W.P. of .25 MAC				0.770
B.L. of .25 MAC				1.597

MODEL COMPONENT: Canard C_8

GENERAL DESCRIPTION: Delta canard with 60° L.E. sweep and a full scale exposed area of 504 ft^2

DRAWING NUMBER: WT-71-106302

DIMENSIONS - EXPOSED:

		FULL SCALE		MODEL SCALE
Area (Two panels)		504 ft^2		0.888 in^2
Span (equivalent)		14.03 ft		0.645 in
Aspect Ratio		1.87		1.87
Taper Ratio		0.106		0.106
Dihedral Angle		0		0
Incidence Angle		Variable		Variable
Sweep Back Angles				
Leading Edge		60.12		60.12
Trailing Edge		0		0
0.25 Chord Line				
Chords				
Root		28.03 ft		1.247 in
Tip		3.13 ft		0.132 in
MAC		19.98		0.840 in
Airfoil Section				
Root	NACA	0014-6.6,5		
Tip	NACA	0014-6.6,5		
Fuse. Sta. of .25 MAC	Sta	2000	Sta	7.007
W.L. of .25 MAC				1.569
B.L. of .25 MAC		23.60 ft		
Pivot Location				
Percent root chord		54.8%		54.8%
Fuselage station				
Water line				

MODEL COMPONENT: Vertical Tail V_{10}

GENERAL DESCRIPTION: Vertical tail with 35° LE sweep a taper ratio of 0.5 and a full scale area of 1500 ft^2.

DRAWING NUMBER: WT-71-106303

DIMENSIONS - EXPOSED:

		FULL SCALE	MODEL SCALE
Area		1500 ft^2	
Span (equivalent)		44.48 ft	1.868 in
Aspect Ratio		1.28	1.28
Taper Ratio		0.50	0.50
Dihedral Angle			
Incidence Angle			
Sweep Back Angles			
Leading Edge		35°	35°
Trailing Edge		10°50'	10°50'
0.25 Chord Line			
Chords			
Root		46.34 ft	1.946 in
Tip		23.17 ft	.973 in
MAC		36.03 ft	
Airfoil Section			
Root	NACA	0013-64	
Tip	NACA	0011-64	
Fuse. Sta. of .25 MAC		3848	
W.L. of .25 MAC	W.L.	853.24	
B.L. of .25 MAC		0	0
Pivot Location			
Percent root chord			
Fuselage station			
Water line			

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MODEL COMPONENT: Body Flap F_7

GENERAL DESCRIPTION: Delta planform body flap with T.E. at wing T.E., hinge line swept back 50°. Full scale undeflected area = 75 ft^2. Only left hand flap (looking fwd) was used during this test period.

DRAWING NUMBER: WT-71-106302

DIMENSIONS: (PER SIDE)

	FULL-SCALE	MODEL SCALE
Area	75 ft^2	.132 in^2
Span (equivalent)	11.2 ft	.471 in
Aspect Ratio	1.68	1.68
Taper Ratio	0	0
Chords		
Root	13.4 ft	.561 in
Tip	0	0
Sweep Back Angles, degrees		
Leading Edge	50	50
Tailing Edge	0	0
Hingeline	50	50
Fuse. Sta. of T.E.	4067	14.234
Butt Line of Root Chord	0	0

MODEL COMPONENT: Body Flap F_8

GENERAL DESCRIPTION: Delta planform body flap with trailing edge at wing trailing edge, hinge line sweptback 50°, full scale deflected area = 150 ft^2

Only left hand (looking fwd) body flap used during this test.

DRAWING NUMBER: WT-71-106302

DIMENSIONS:/PER SIDE

	FULL-SCALE	MODEL SCALE
Area	150 ft^2	.265 in^2
Span (equivalent)	15.9 ft	.667 in
Aspect Ratio	1.68	1.68
Taper Ratio	0	0
Chords		
Root	18.9 ft	.795 in
Tip	0	0
Sweep Back Angles, degrees		
Leading Edge	50	50
Tailing Edge	0	0
Hingeline	50	50
Fuse. Sta. of Trailing Edge	4067	14.234
Butt Line of Root Chord	0	0

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MODEL COMPONENT: Body - Rocket Engines R_4

GENERAL DESCRIPTION: Rocket engines for B-9U booster, outside (8) engines only with part of top (2) engines removed for α blade. (See B_{25})

DRAWING NUMBER: WT-71-106302

DIMENSIONS:

	FULL-SCALE	MODEL SCALE
Length	7.5 ft	.315 in
Max. Width	6.0 ft	.25 in
Max. Depth	6.0 ft	.25 in
Fineness Ratio l/d	1.25	1.25
Area		
Max. Cross-Sectional	28.28 ft^2	.049 in^2
Planform	35.8 ft^2	.058 in^2
Wetted	112.1 ft^2	.187 in^2
Base	28.28 ft^2	.049 in^2

NOMENCLATURE

(General)

SYMBOL	SADSAC SYMBOL	DEFINITION
α	ALPHA	angle of attack, angle between the projection of the wind X_w-axis on the body X, Z-plane and the body X-axis; degrees
β	BETA	sideslip angle, angle between the wind X_w-axis and the projection of this axis on the body X-Z-plane; degrees
ψ	PSI	yaw angle, angle of rotation about the body Z-axis, positive when the positive X-axis is rotated toward the positive Y-axis; degrees
ϕ	PHI	roll angle, angle of rotation about the body X-axis, positive when the positive Y-axis is rotated toward the positive Z-axis; degrees
ρ		air density; K_g/m^3, $slugs/ft^3$
a		speed of sound; m/sec, ft/sec
V		speed of vehicle relative to surrounding atmosphere; m/sec, ft/sec
q	Q(PSI) Q(PSF)	dynamic pressure; $1/2\rho V^2$, psi, psf
M	MACH	Mach number; V/a
RN/L	RN/L	Reynolds number per unit length; million/ft
p		static pressure; psi
P		total pressure; psi
C_p	CP	pressure coefficient; $(p-p_\infty)/q$

NOMENCLATURE (Continued)

Reference & C. G. Definitions

SYMBOL	SADSAC SYMBOL	DEFINITION
S		wing area; m^2, ft^2
S	SREF	reference area; m^2, ft^2
$\bar{c}$		wing mean aerodynamic chord or reference chord; m, ft, in (see ℓ_{ref} or LREF)
ℓ_{ref}	LREF	reference length; m, ft, in.; (see $\bar{c}$)
b_{ref}	BREF	wing span or reference span; m, ft, in
A_b		base area; m^2, ft^2, in^2
c. g.		center of gravity
MRP	MRP	abbreviation for moment reference point
	XMRP	abbreviation for moment reference point on X-axis
	YMRP	abbreviation for moment reference point on Y-axis
	ZMRP	abbreviation for moment reference point on Z-axis

NOMENCLATURE (Continued)

Axis System General

SYMBOL	DEFINITION
F	force; F, lbs
M	moment; M, in-lb

Subscript	Definition
N	normal force
A	axial force
L	lift force
D	drag force
Y	force or moment about the Y axis
Z	moment about the Z axis
X	moment about the X axis
s	stability axis system
w	wind axis system
ref	reference conditions
∞	free stream conditions
t	total conditions
b	base

Body & Stability Axis System

SYMBOL	SADSAC SYMBOL	DEFINITION
		Body Axis System
C_N	CN	normal force coefficient; F_N/qS
C_A	CA	axial force coefficient; F_A/qS
C_{A_b}	CAB	base axial force coefficient; $\left[-1\right] \left[(p_b - p_\infty)/q\right] (A_b/S)$
C_{A_f}	CAF	forebody axial force coefficient; $C_A - C_{A_b}$
C_n	CYN	yawing moment coefficient; $M_Z/qS\ b_{ref}$
C_ℓ	CBL	rolling moment coefficient; $M_X/qS\ b_{ref}$
		Common to Both Axis Systems
C_m	CLM	pitching moment coefficient; $M_Y/qS\ \ell_{ref}$
C_Y	CY	side force coefficient; F_Y/qS
		Stability Axis System
C_L	CL	lift force coefficient; F_L/qS
C_D	CD	drag force coefficient; F_D/qS
C_{D_b}	CDB	base drag coefficient
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_n	CLN	yawing moment coefficient; $M_{Z,s}/qS\ b_{ref}$
C_ℓ	CSL	rolling moment coefficient; $M_{X,s}/qS\ b_{ref}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (Continued)

Surface Definitions

SYMBOL	SADSAC SYMBOL	DEFINITION
i_t	HORIZT	horizontal tail incidence; positive when trailing edge down; degrees
δ		symmetrical surface deflection angle; degrees; positive deflections are:
	AILRON	aileron - total aileron deflection; (left aileron - right aileron)/2
	CANARD	canard - trailing edge down
	ELEVON	elevon - trailing edge down
	ELEVTR	elevator - trailing edge down
	FLAP	flap - trailing edge down
	RUDDER	rudder - trailing edge to the left
	SPOILR	spoiler - trailing edge down
	TAB	tab - trailing edge down with respect to control surface
δ		antisymmetrical surface deflection angle, degrees; positive trailing edge down:
	AIL-L	left aileron - trailing edge down
	AIL-R	right aileron - trailing edge down
	ELVN-L	left elevon - trailing edge down
	ELVN-R	right elevon - trailing edge down
	SPLR-L	left spoiler - trailing edge down
	SPLR-R	right spoiler - trailing edge down

SURFACE SUBSCRIPTS	DEFINITION
a	aileron
b	base
c	canard
e	elevator or elevon
f	flap
r	rudder or ruddervator
s	spoiler
t	tail

A_{b2}	Lower half of base area (see Figure 6)
A_c	Balance cavity base area (see Figure 6)
A_{cp}	Balance cavity planform area with blade support. (See Figure 7)
P_{b1}	Upper base pressure (see Figure 6)
P_{b2}	Lower base pressure (see Figure 6)
P_{ba}	Average base pressure, $\frac{P_{b_1} + P_{b_2}}{2}$
X_1	Axial transfer distance from BMC to MRC (see Figure 7)
X_2	Moment arm from MRC to centroid of A_{cp} (see Figure 7)
DCN/DE	Rate of change of normal force coefficient with rate of change of elevon deflection
DCLMDE	Rate of change of pitching moment coefficient with rate of change of elevon deflection
DCA/DE	Rate of change of axial force coefficient with respect to rate of change of elevon deflection
DCN/DC	Rate of change of normal force coefficient with respect to rate of change of canard deflection
DCLMDC	Rate of change of pitching moment coefficient with respect to canard deflection
DCA/DC	Rate of change of axial force coefficient with rate of canard deflection
DLTCN	Incremental normal force coefficient due to control deflection

ADDITIONS TO NOMENCLATURE

(CONTINUED)

SYMBOL

DLTCLM	Incremental pitching moment coefficient due to control deflection
DLTCA	Incremental axial force coefficient due to control deflection
DLTCND	Incremental canard deflection angle/degrees
DLTELV	Incremental canard deflection angle/degrees

TABULATED DATA LISTING

A tabulated data listing, consisting of all aero data sets, both original and those created in arriving at the plotted material to be presented subsequently, is available as an addendum to this report. The tabular listing is made up in two sections:

(a) a brief summary list of all data sets containing the identifier, the descriptor, and the resident dependent variables.

(b) a full list of all data sets containing all resident or selected aerodynamic coefficients of the data sets as well as the above mentioned information.

The listing is currently sent on limited distribution to the following organizations:

NASA AMES	Mr. V. Stevens
NASA MSC	Mr. Ray Nelson
NASA MSFC	Mr. J. Weaver
GD/C	Mr. R. Lanflisi

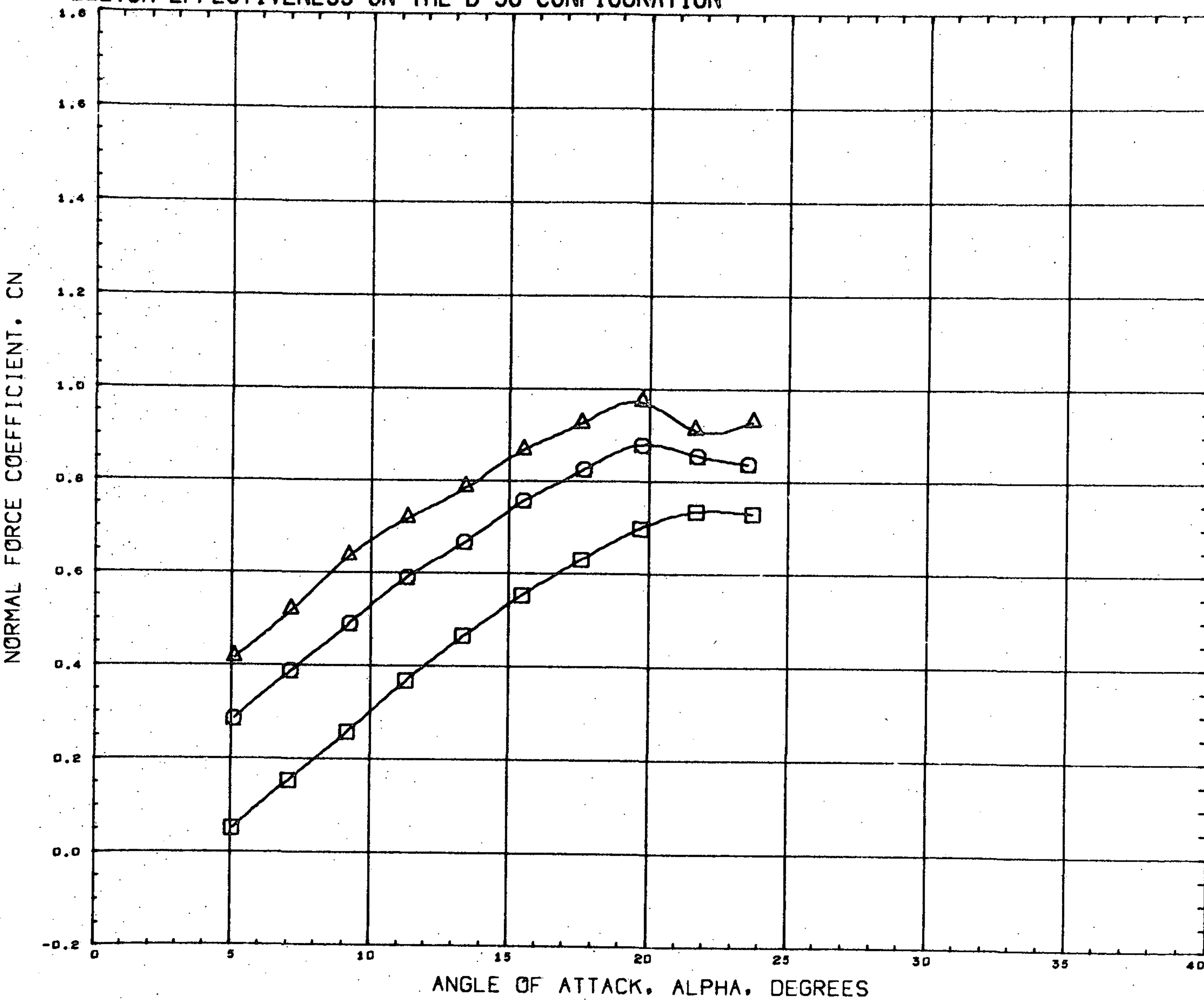
If copies of this listing are desired, please contact the above or the cognizant SADSAC personnel who, for this data, is:

Mr. J. R. Ziler
Department 2780
Chrysler Corporation Space Division
New Orleans, La. 70129

(504) 255-2304

PLOTTED DATA

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



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(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0	C=0	R=0		0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS				0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C B25W19C8V10 E=-20	C=0	R=0		0.000	-20.000	0.000	0.000

MACH 0.594

REFERENCE INFORMATION

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YMRP	0.0000	IN.
ZMRP	0.0000	IN.
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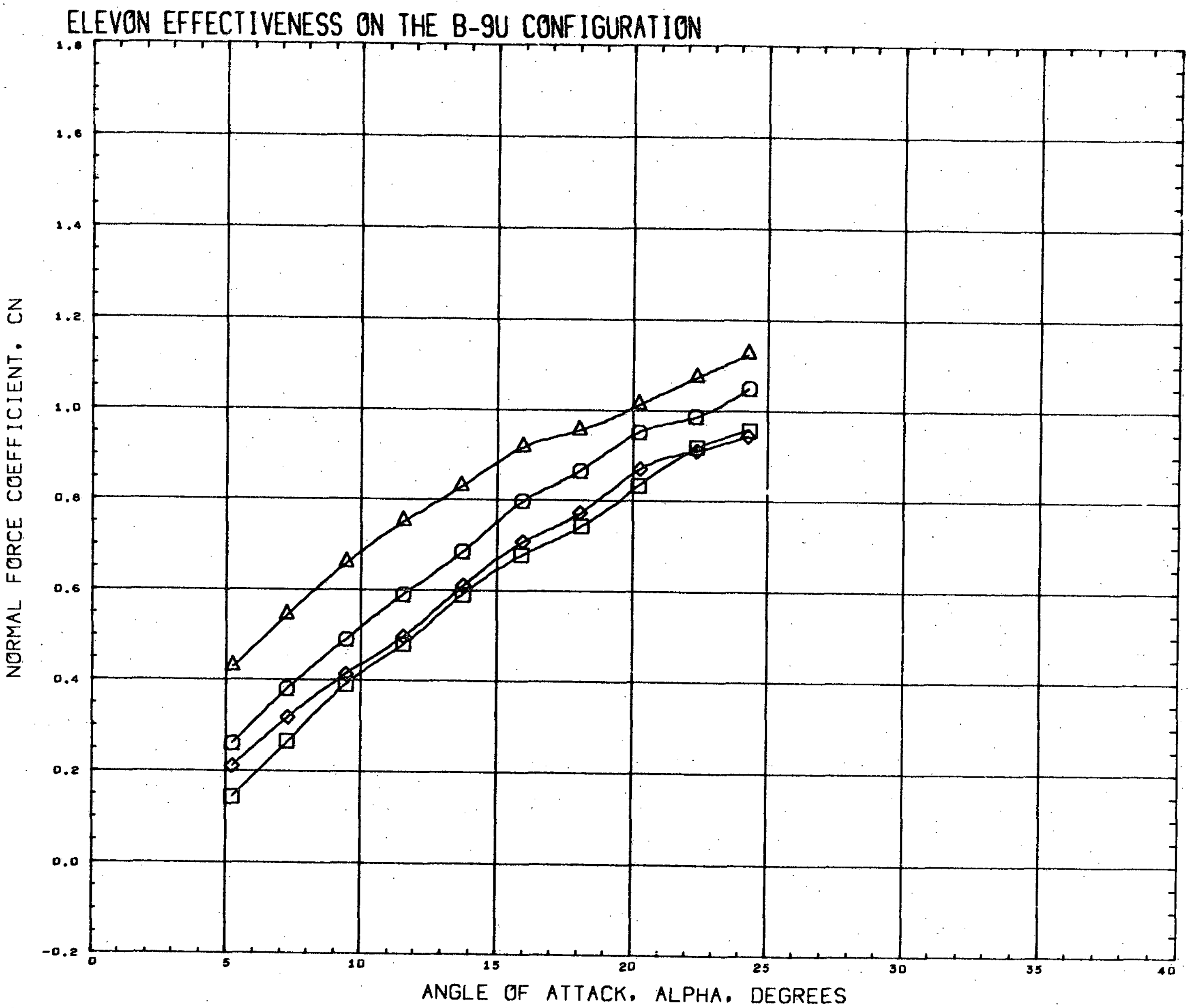

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
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(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.897

REFERENCE INFORMATION		
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BREF	6.0180	IN.
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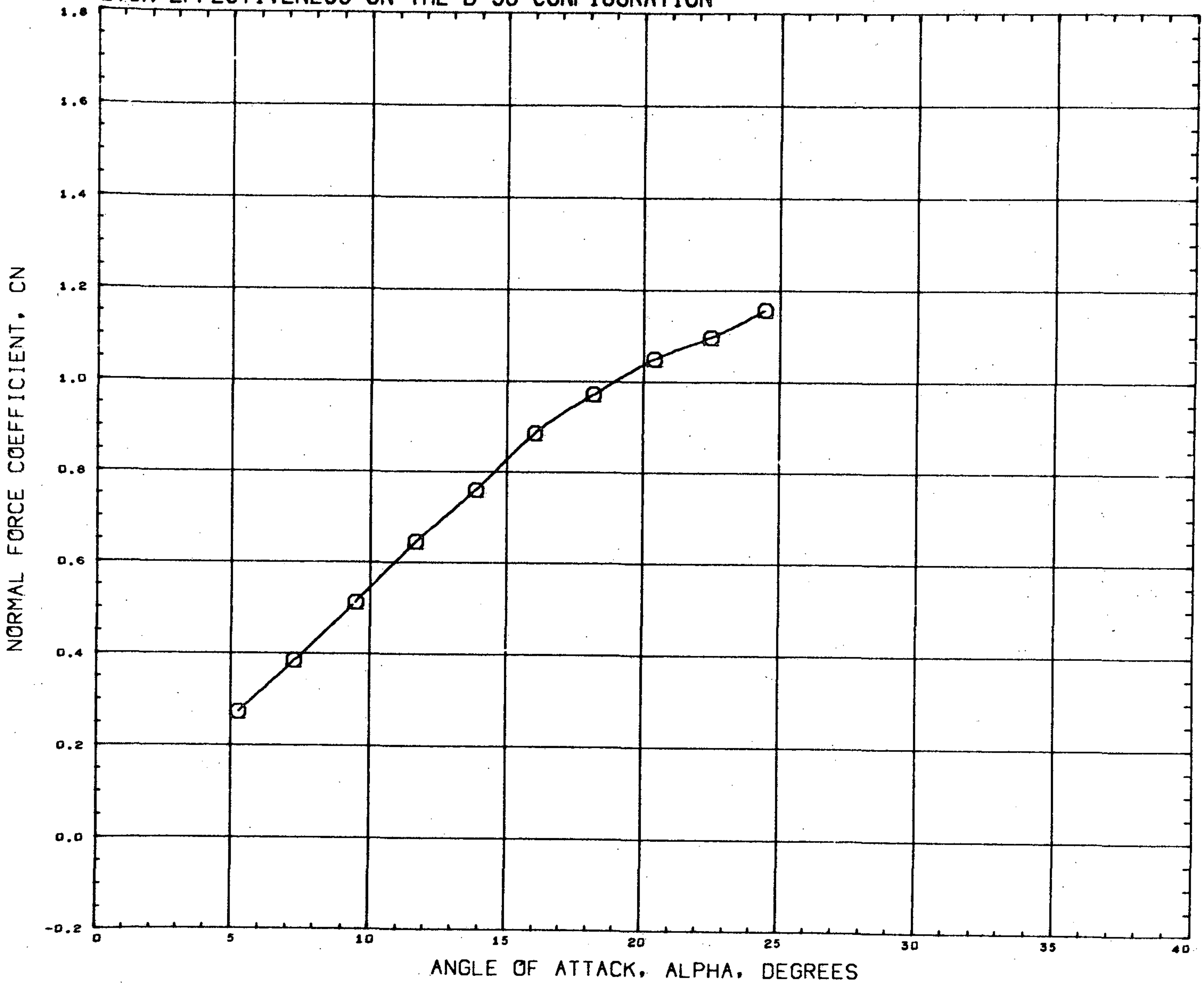
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



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(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000

MACH 0.961

REFERENCE INFORMATION

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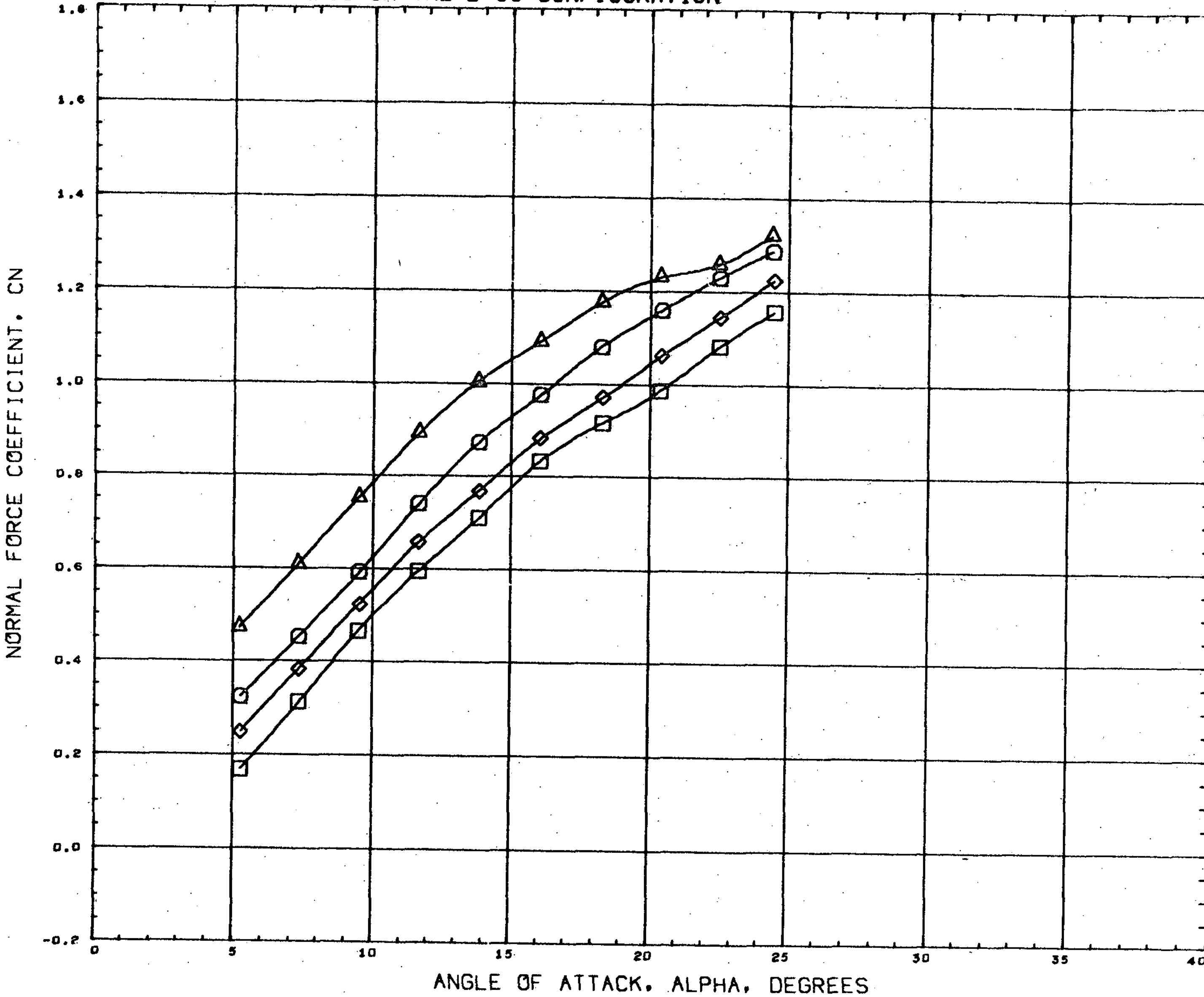
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
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(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.999

REFERENCE INFORMATION		
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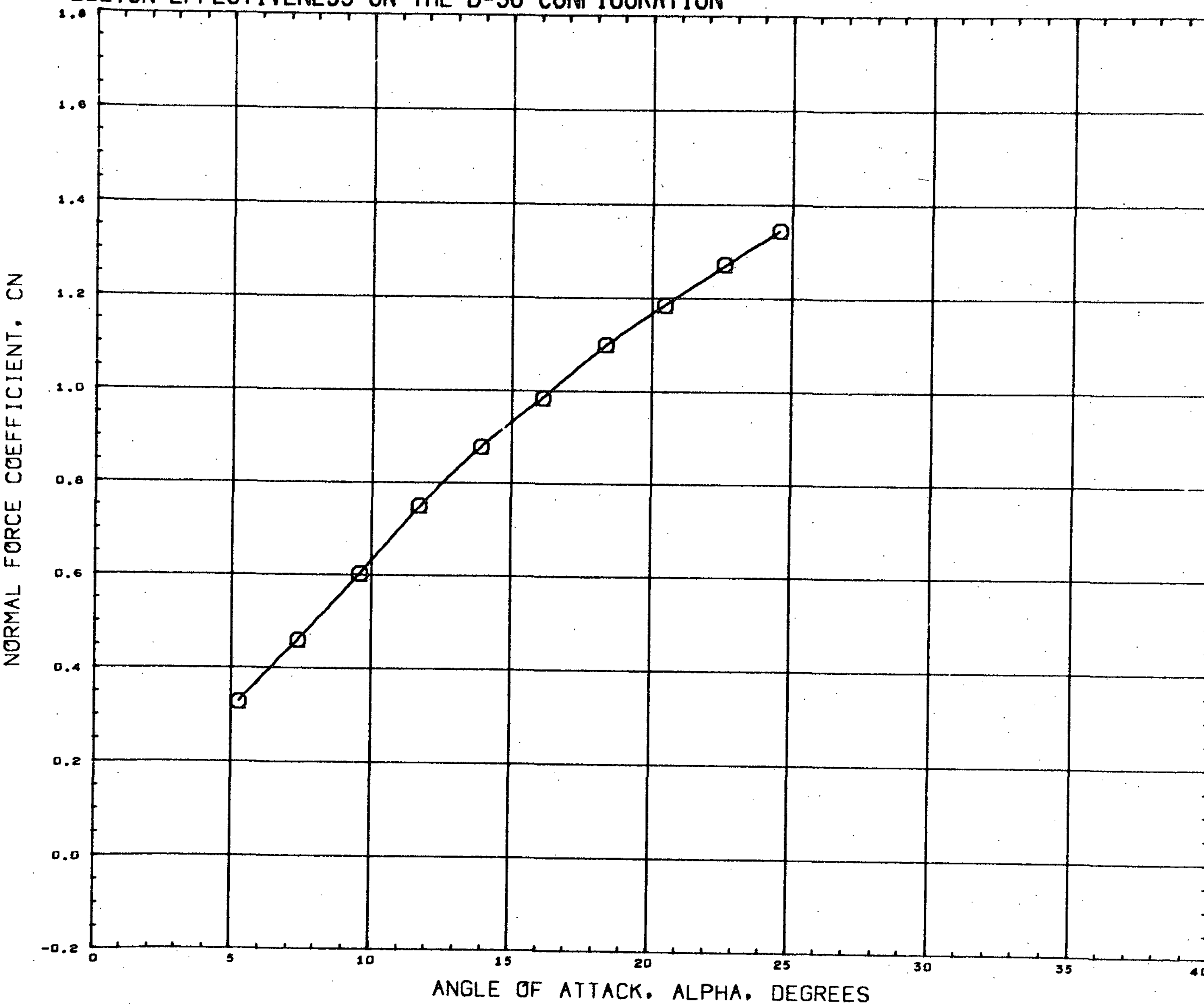
ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



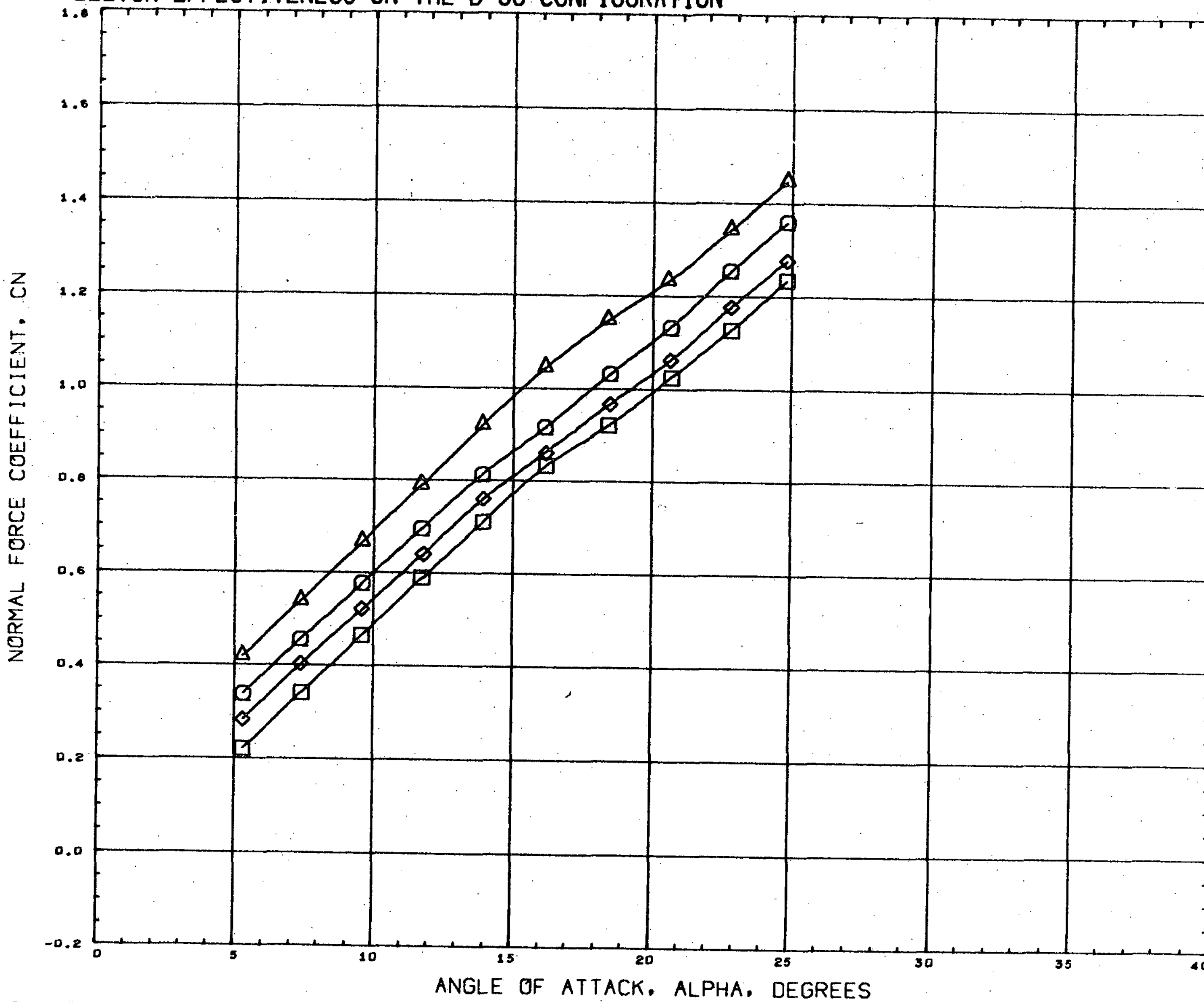
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000

MACH 1.043

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

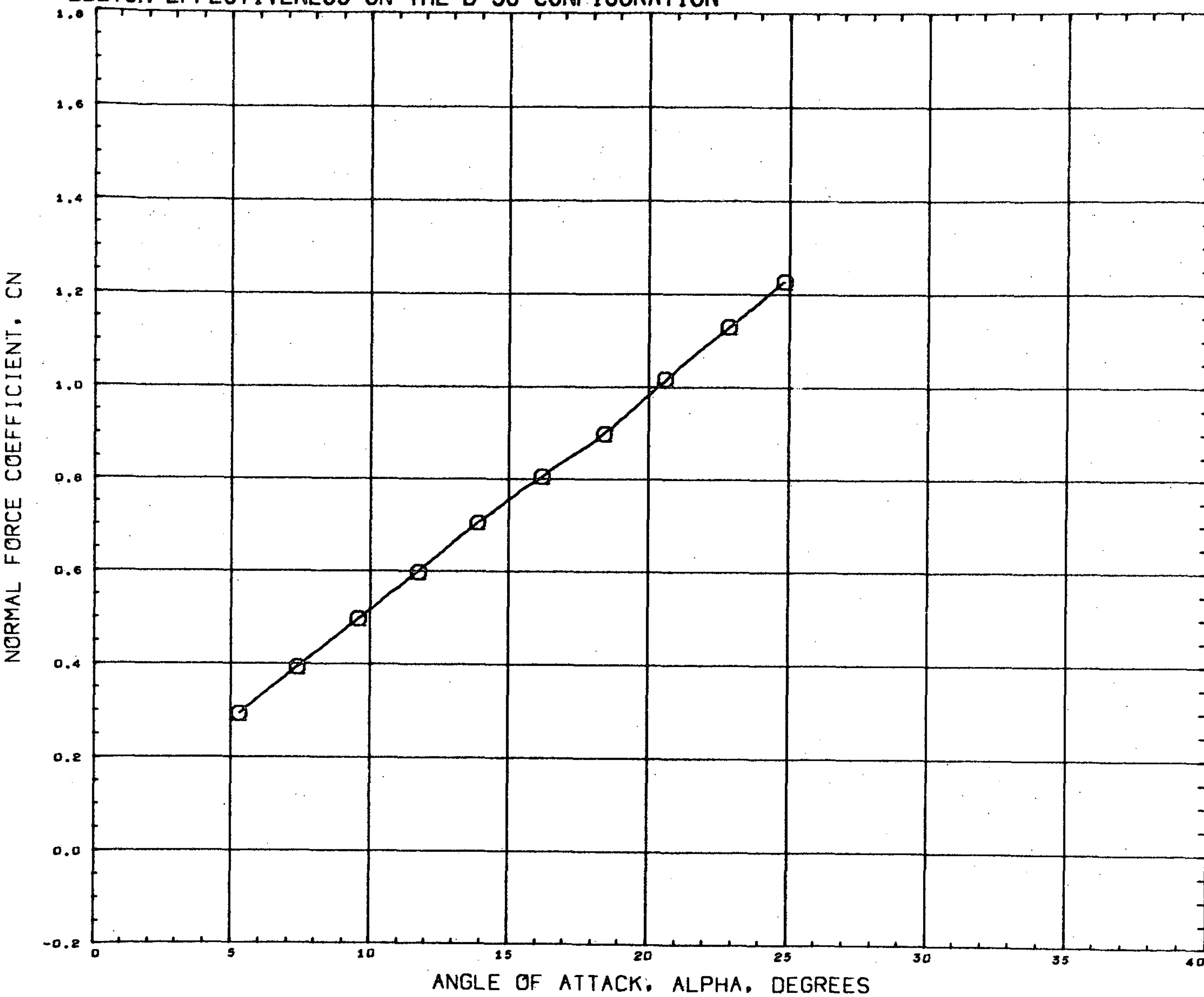


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.195

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



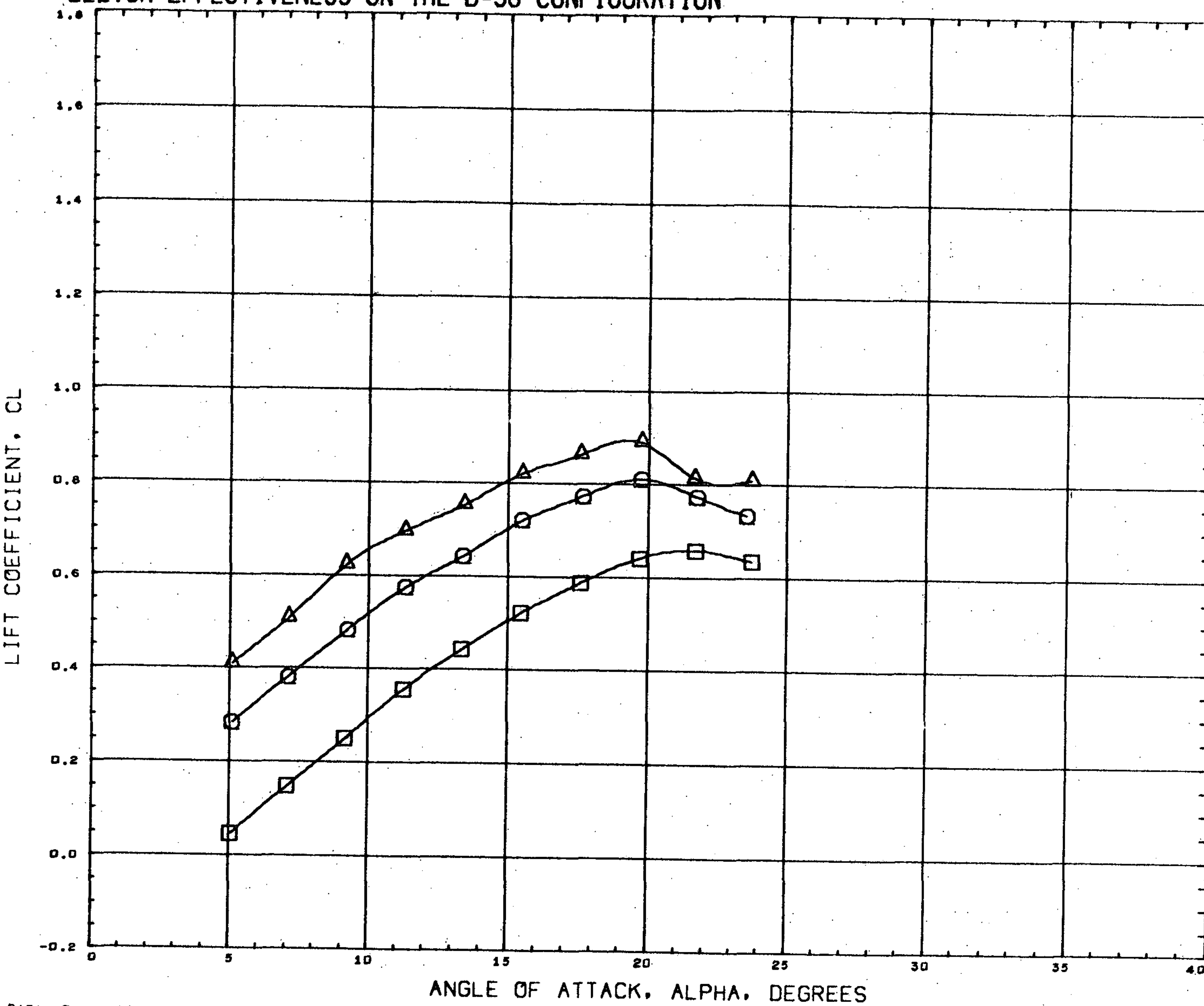
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000

MACH 1.453

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

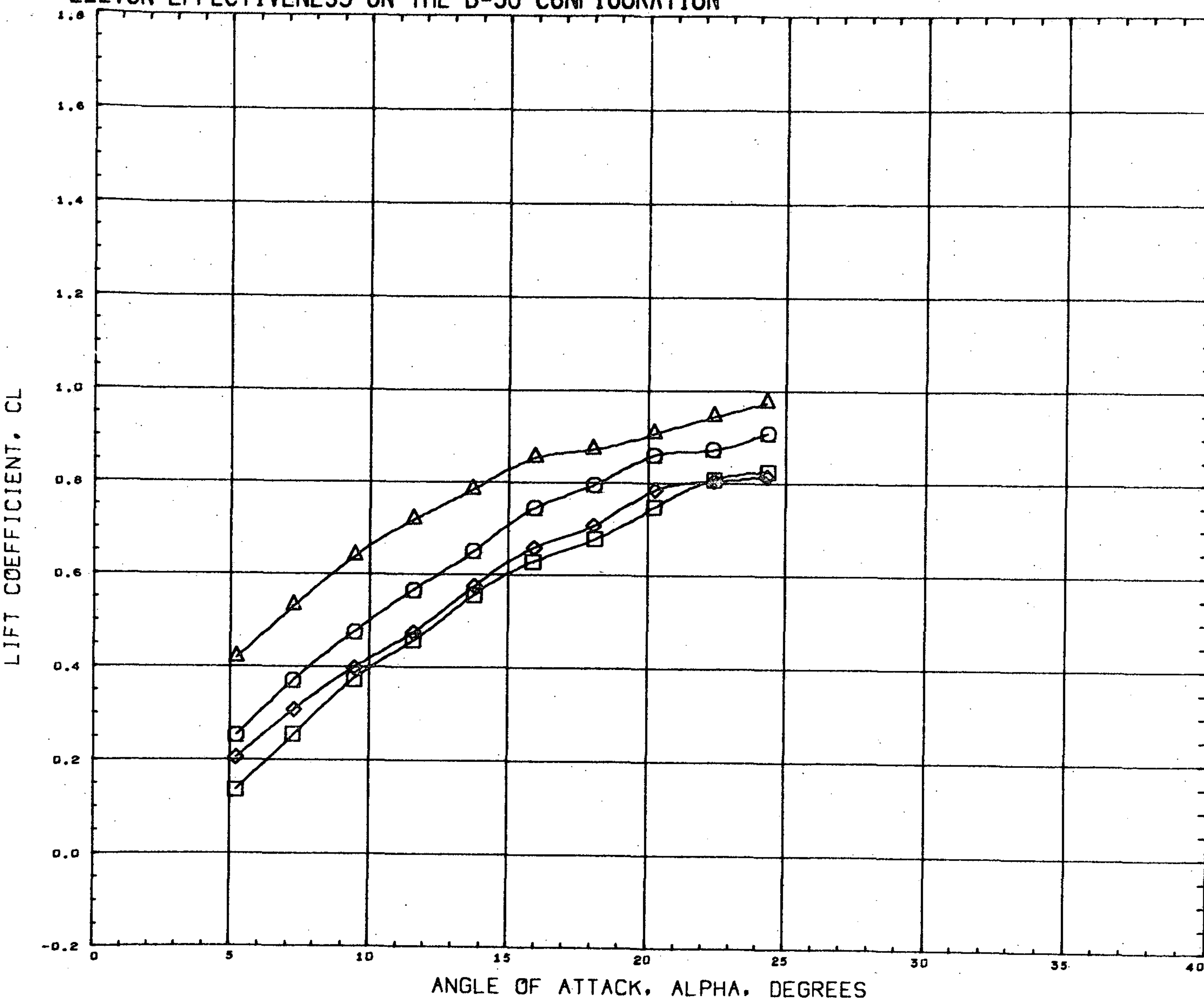


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS				0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.594

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



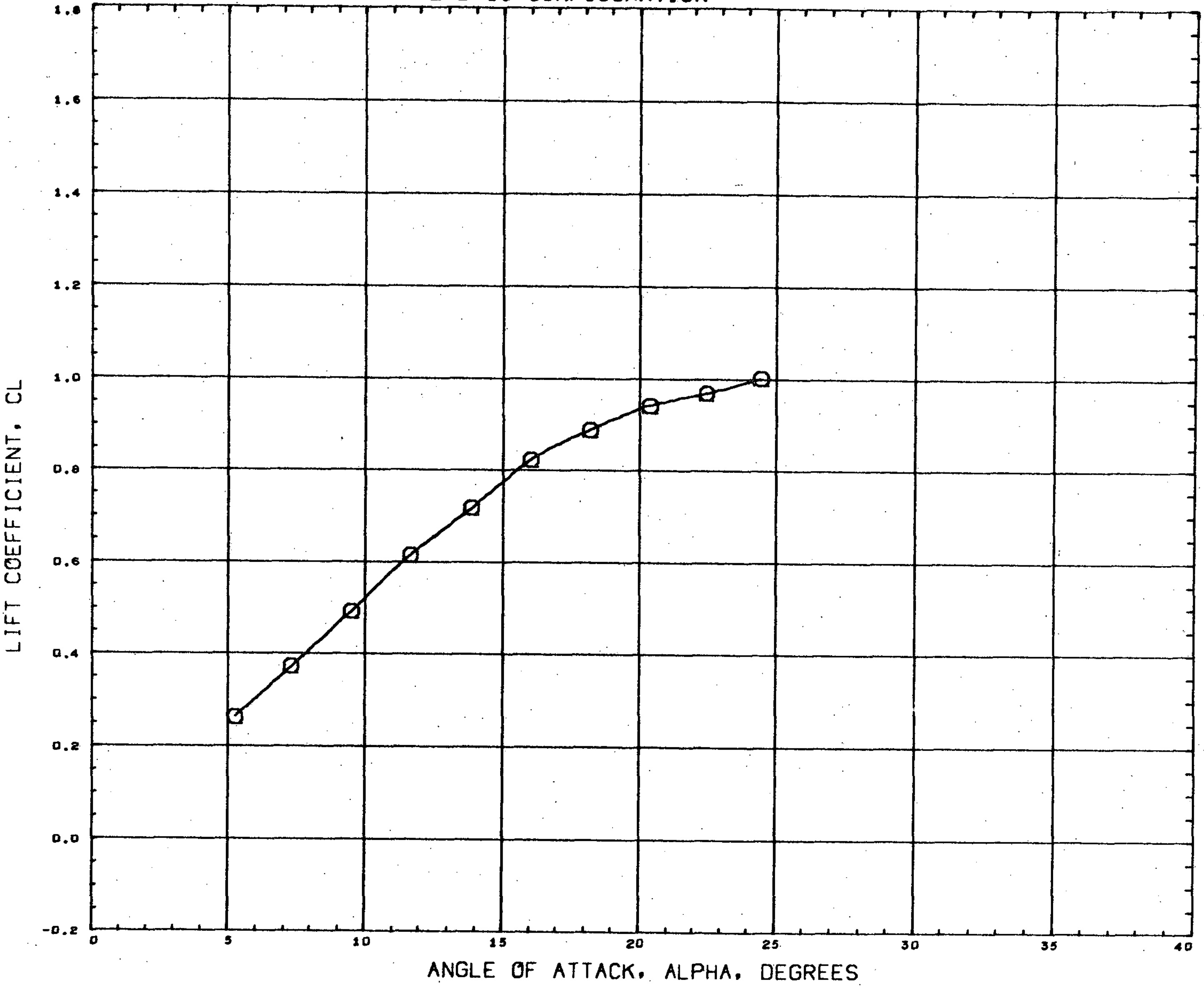
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.897

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



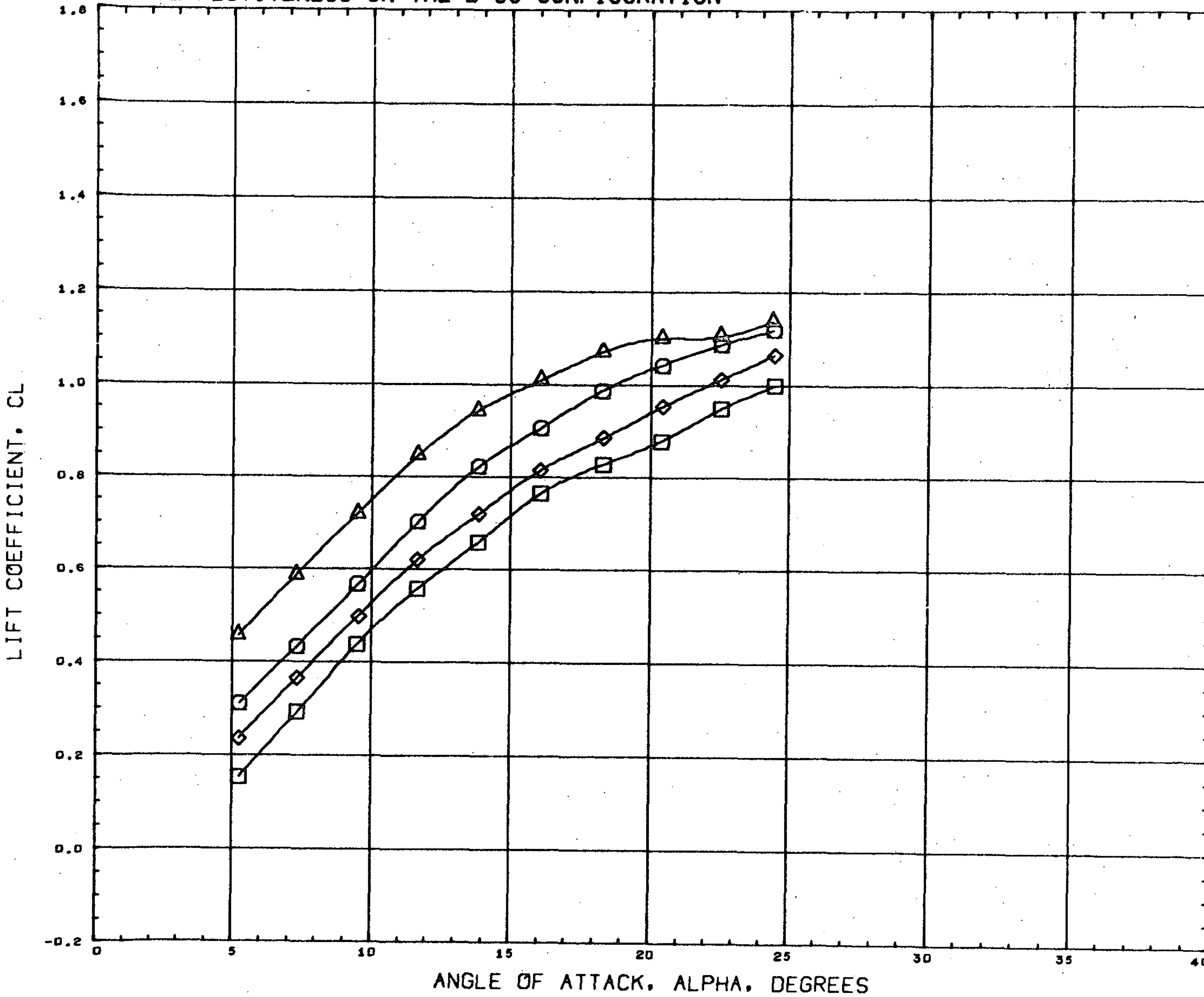
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	-20.000	0.000	0.000

MACH 0.961

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



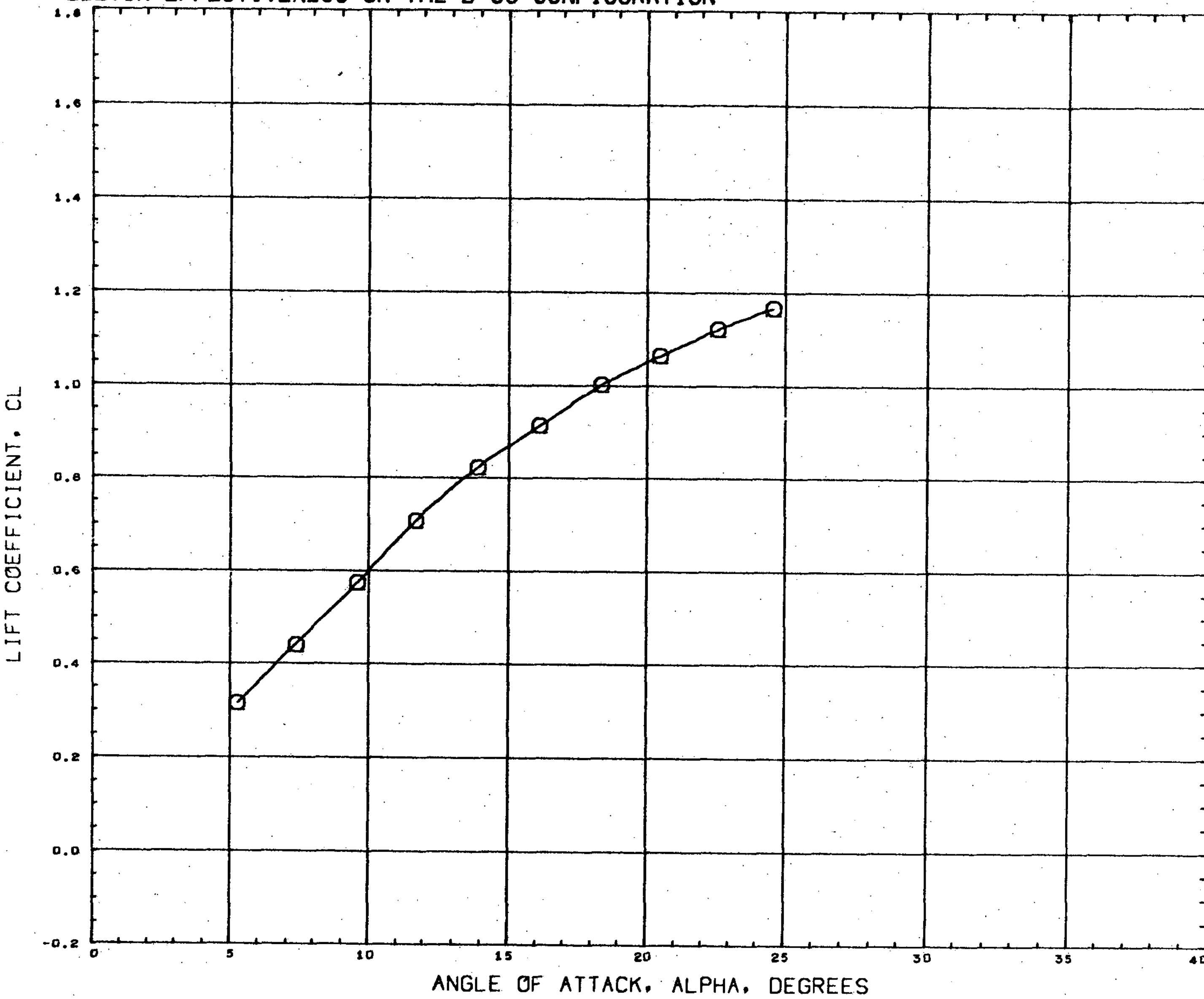
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.999

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

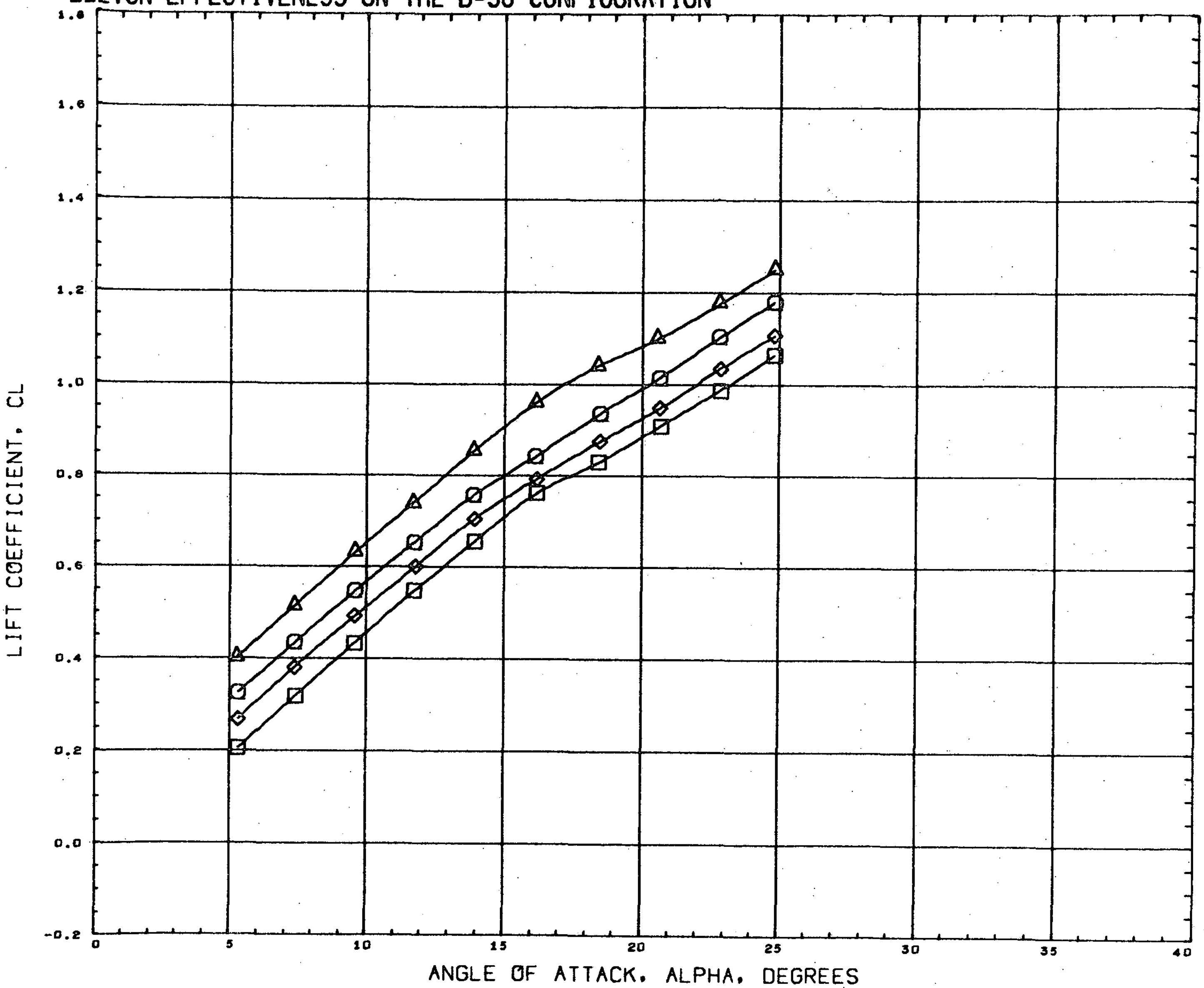


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.043

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

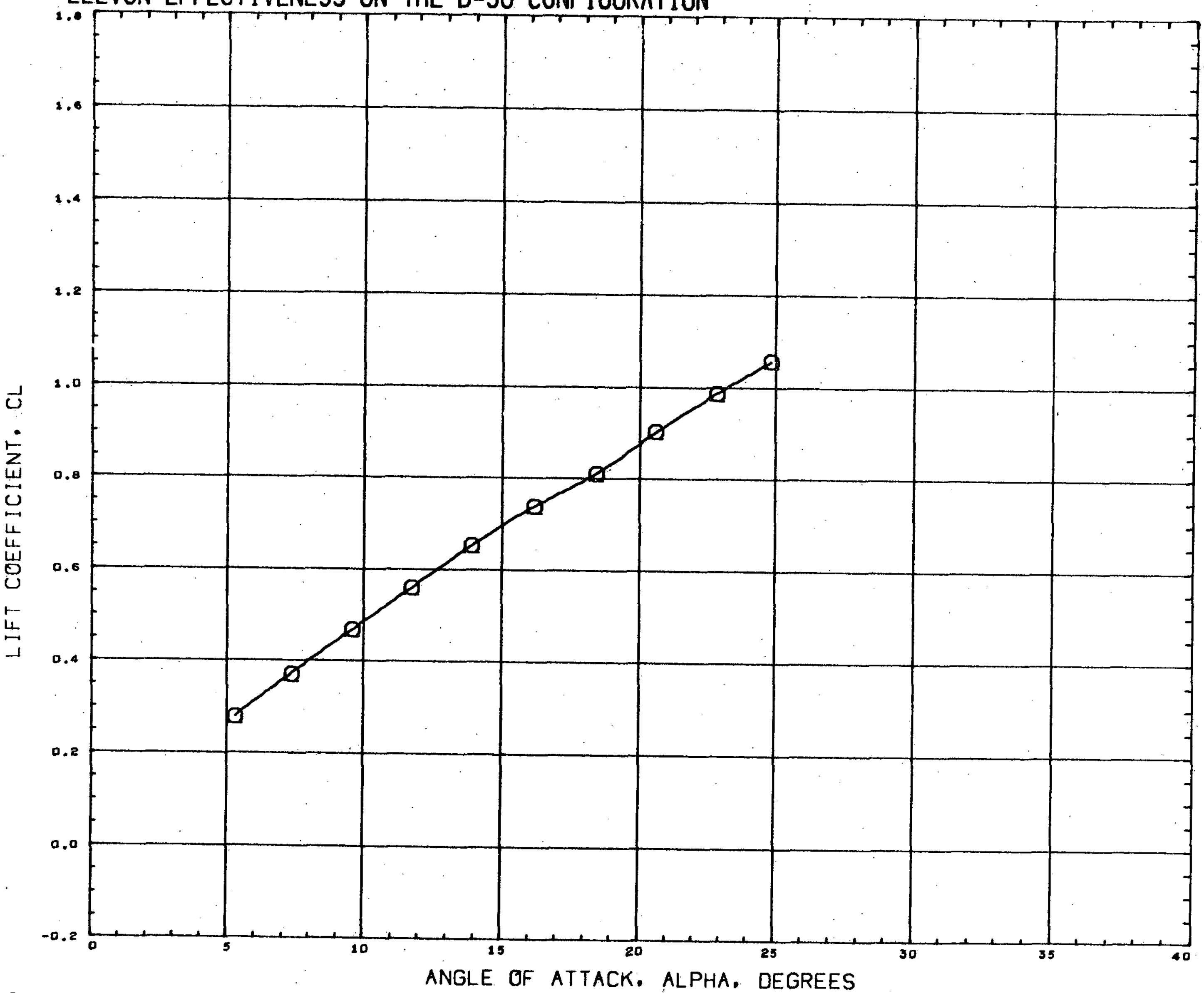


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.195

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

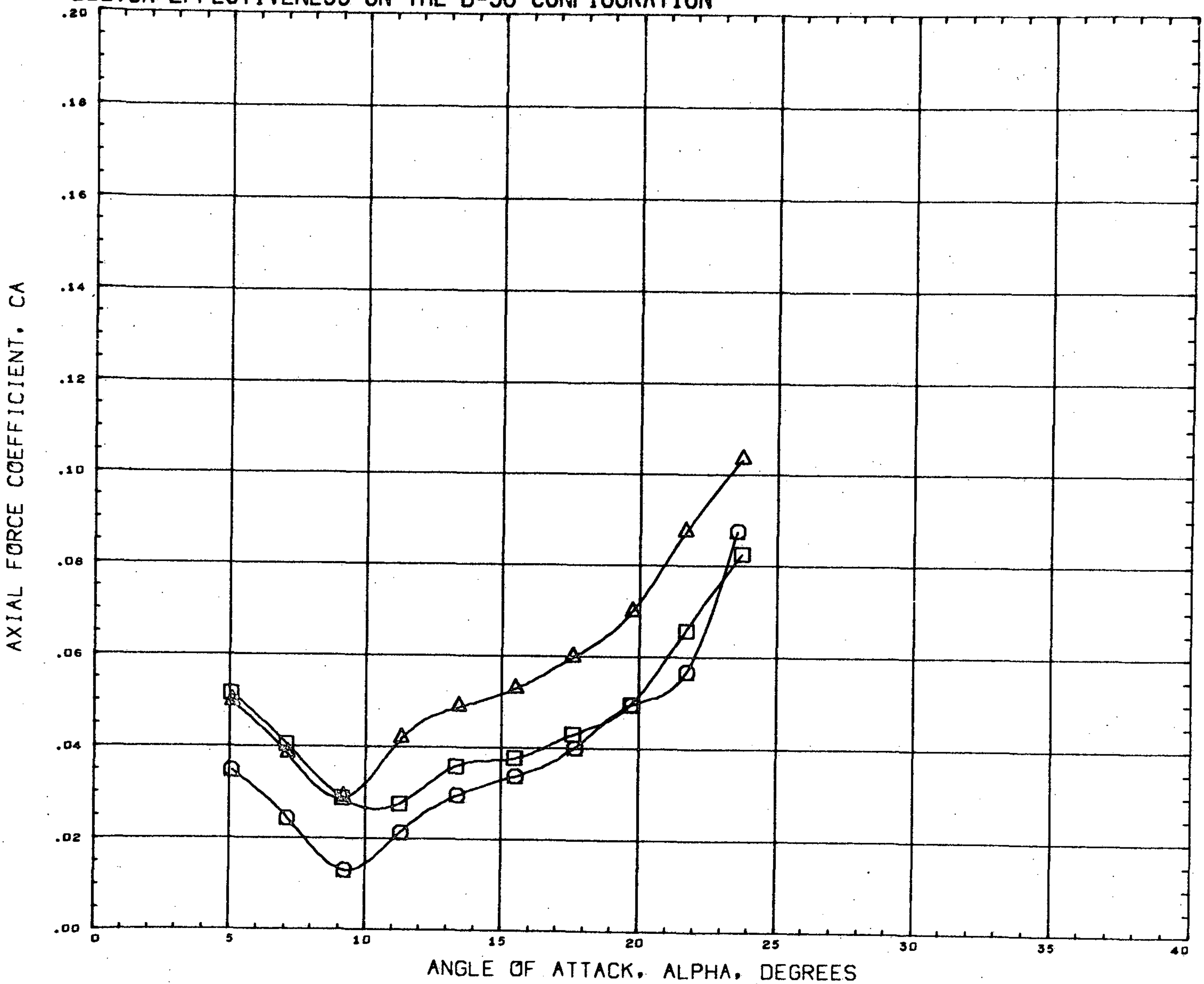
BETA	ELEVON	CANARD	RUDDER
0.000	10.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	-10.000	0.000	0.000
0.000	-20.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.453

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



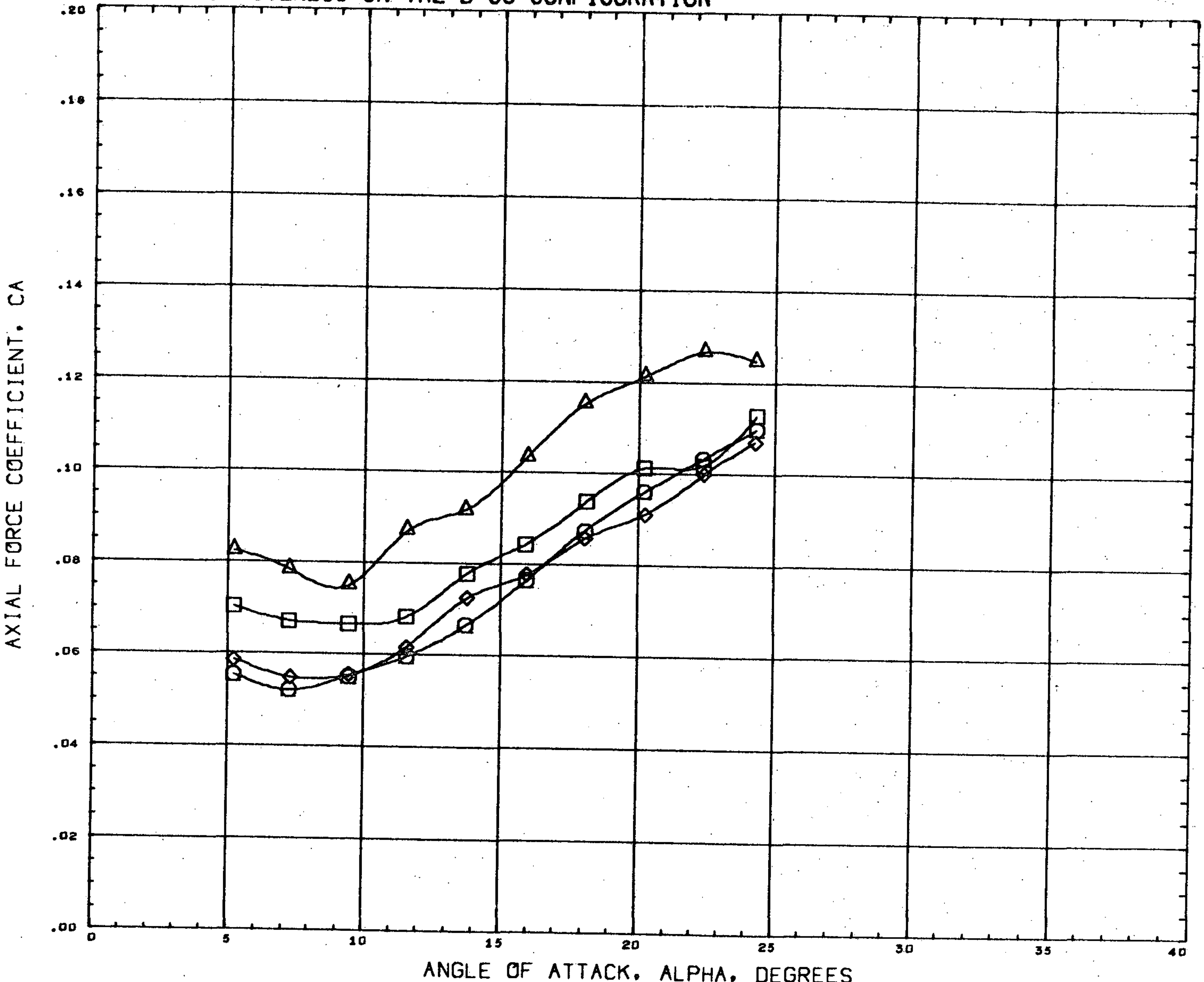
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=10 C=0 R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C B25W19C8V10 E=-20 C=0 R=0	0.000	-20.000	0.000	0.000

MACH 0.594

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



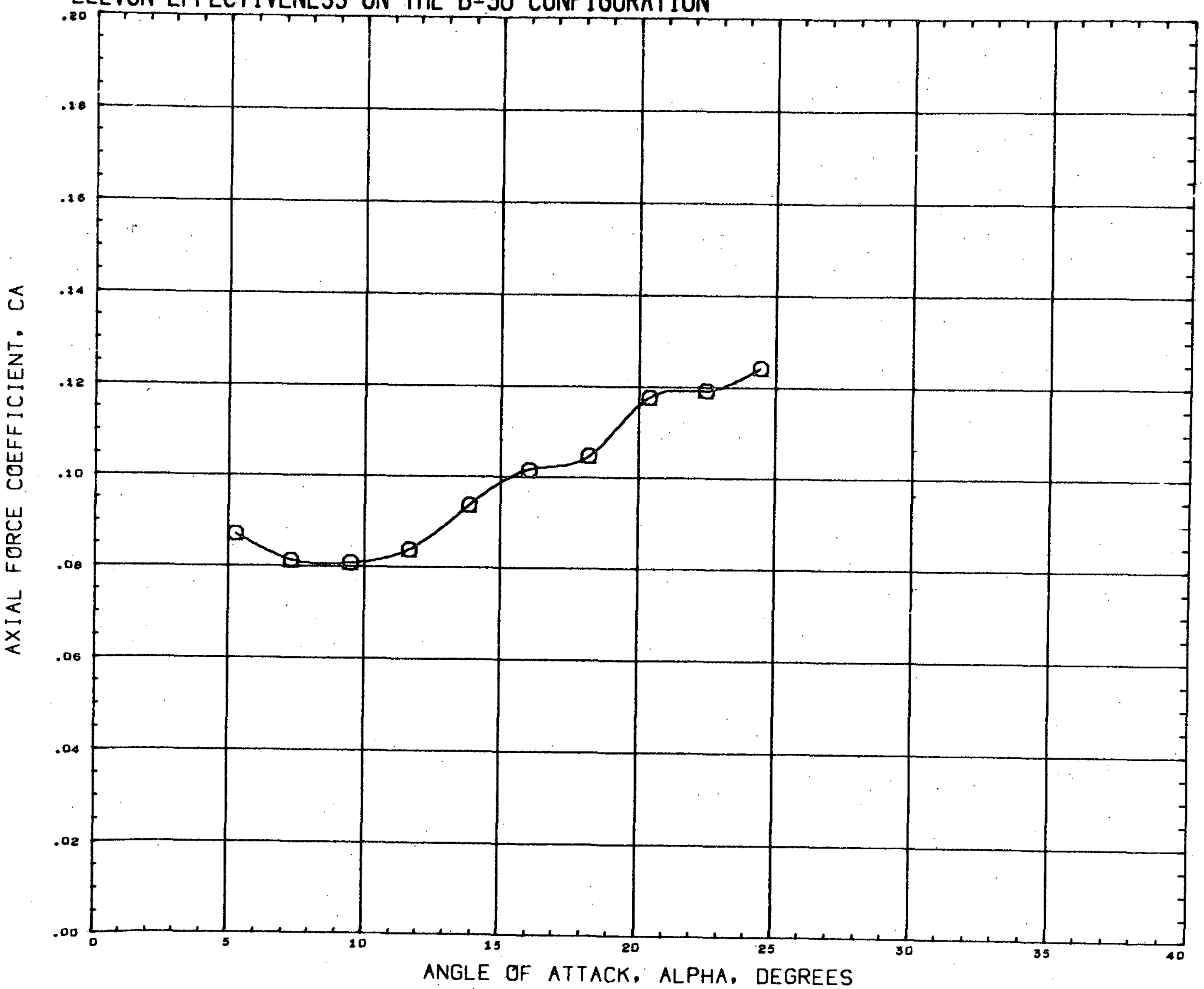
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.897

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



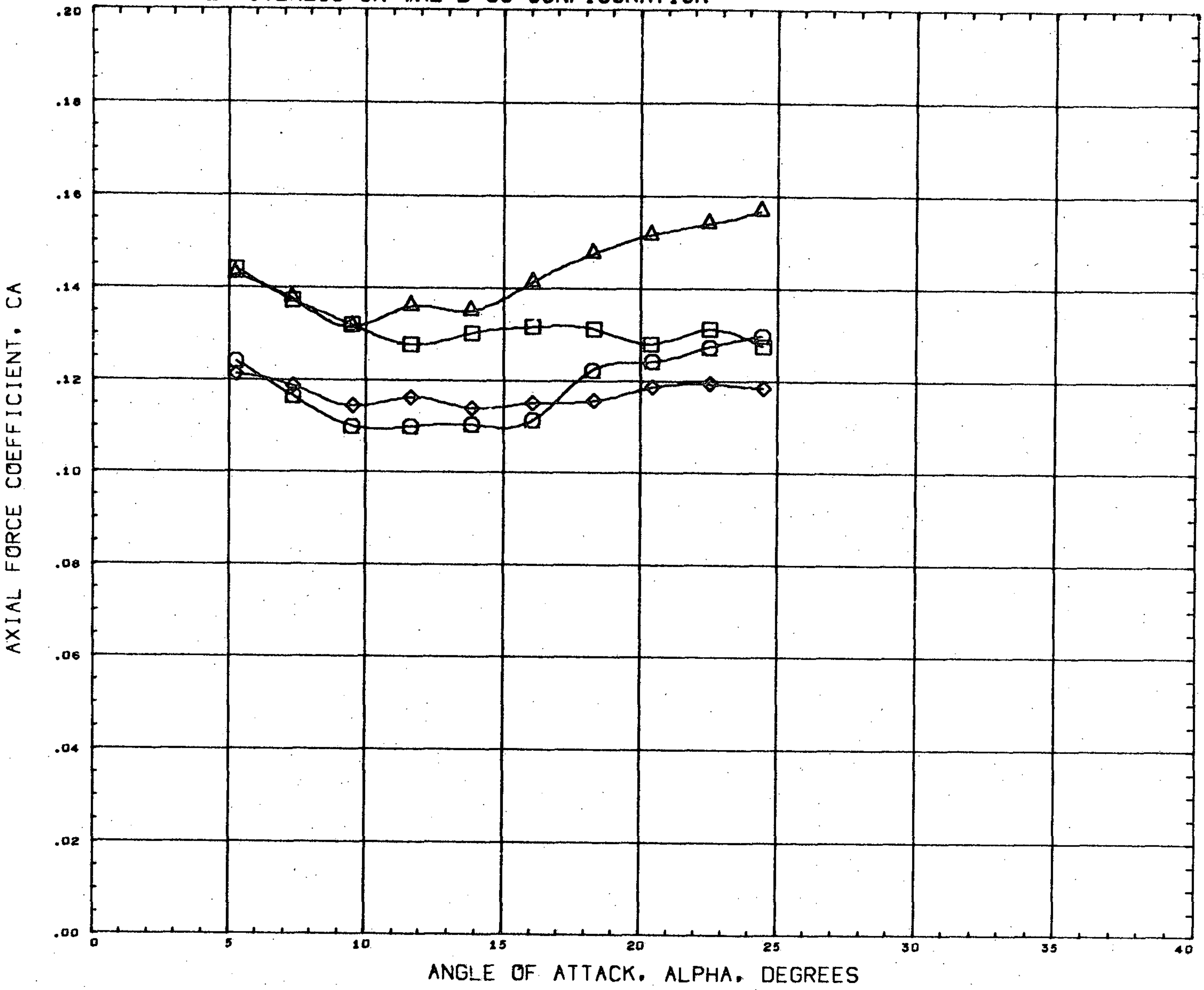
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000

MACH 0.961

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

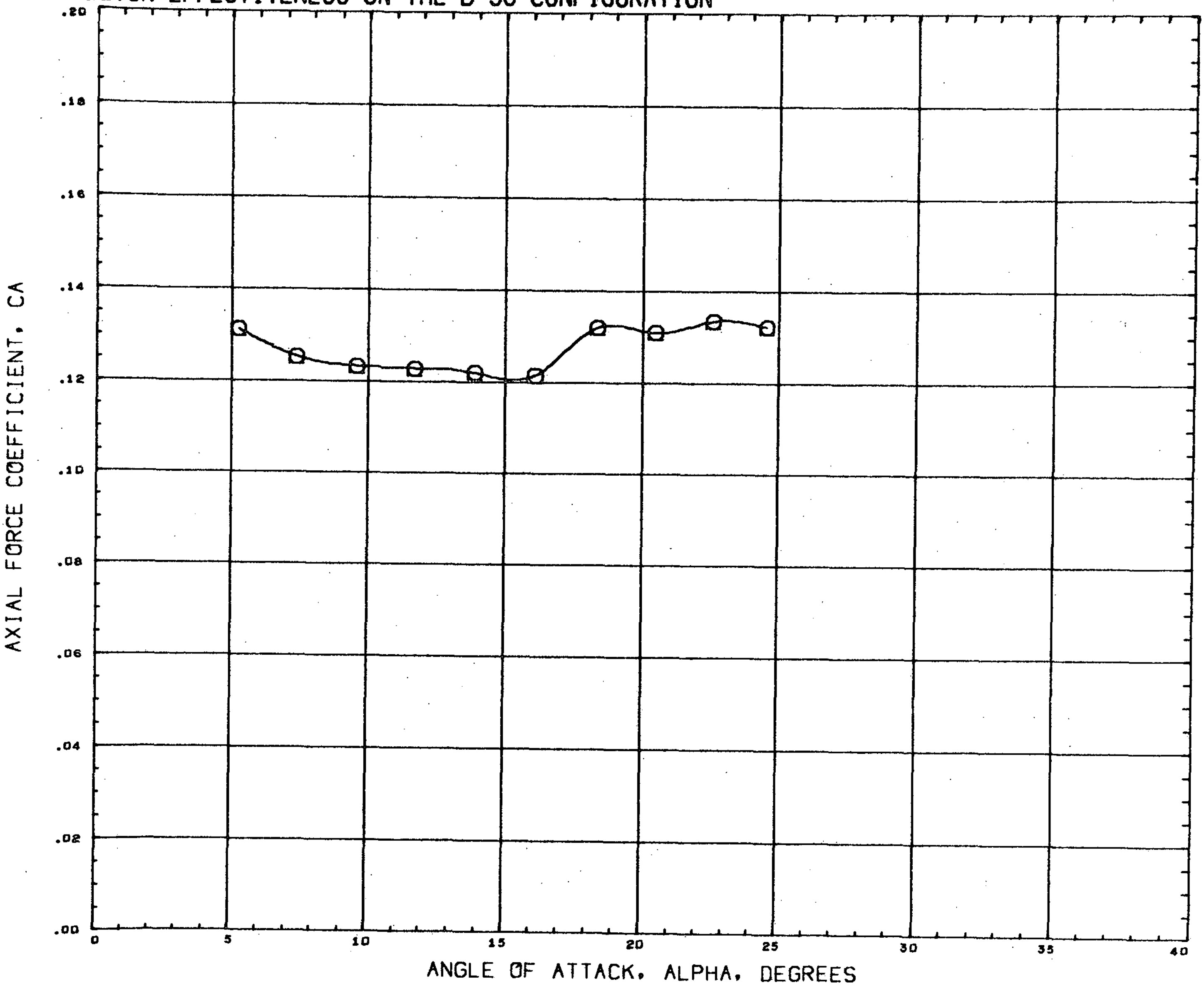


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V1D	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V1D	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V1D	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V1D	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.999

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



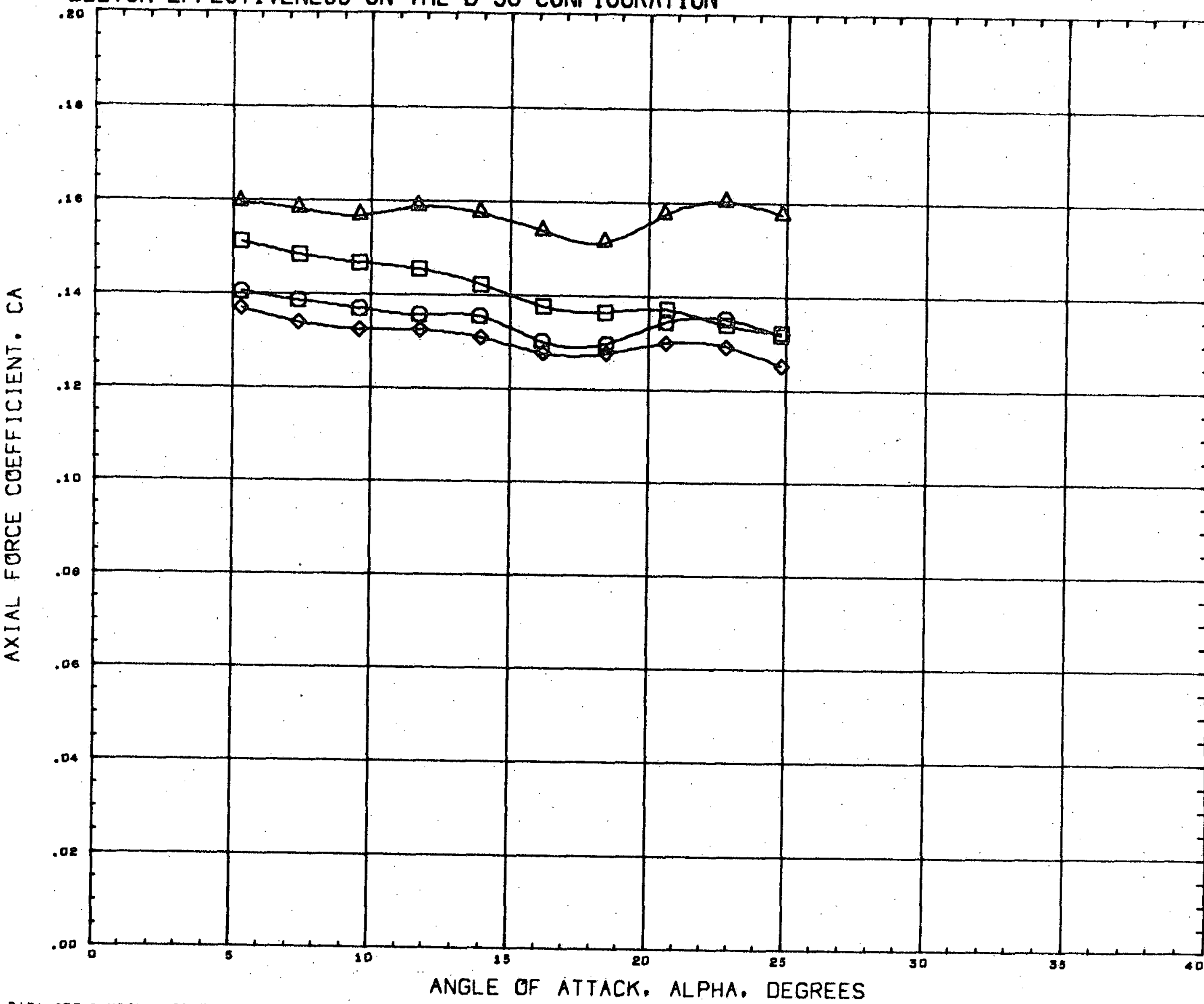
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000

MACH 1.043

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

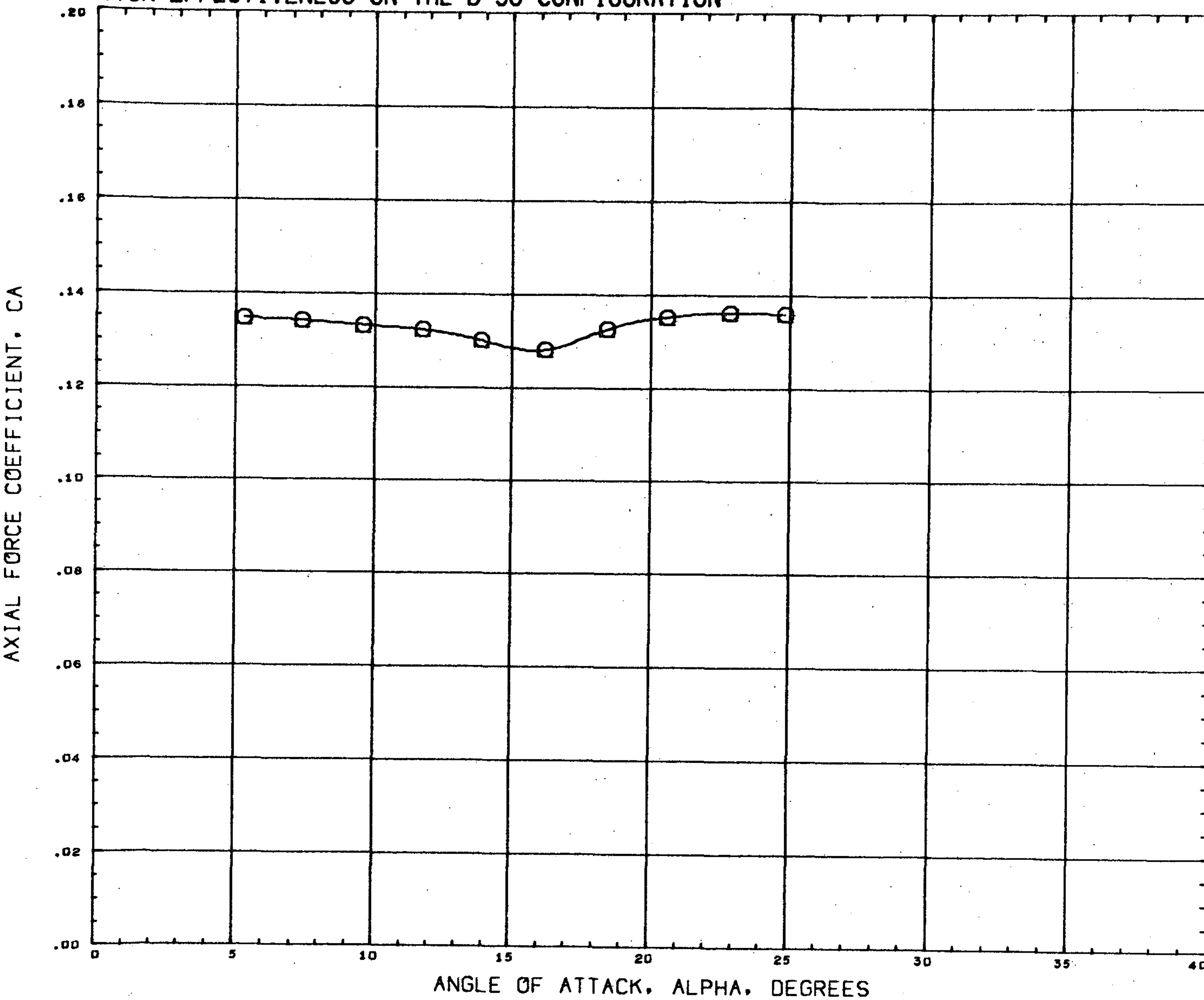


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.195

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
* SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



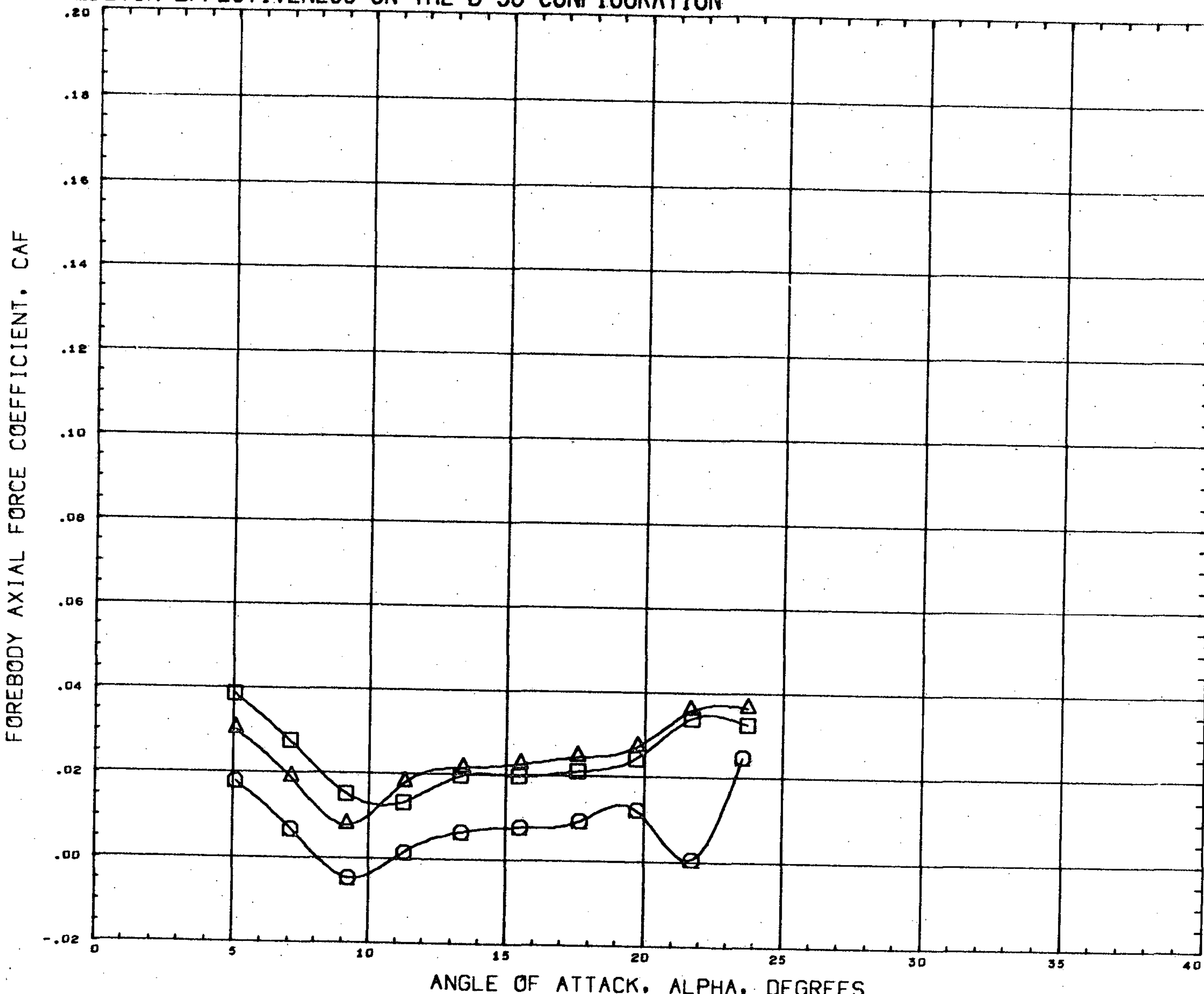
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000

MACH 1.453

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



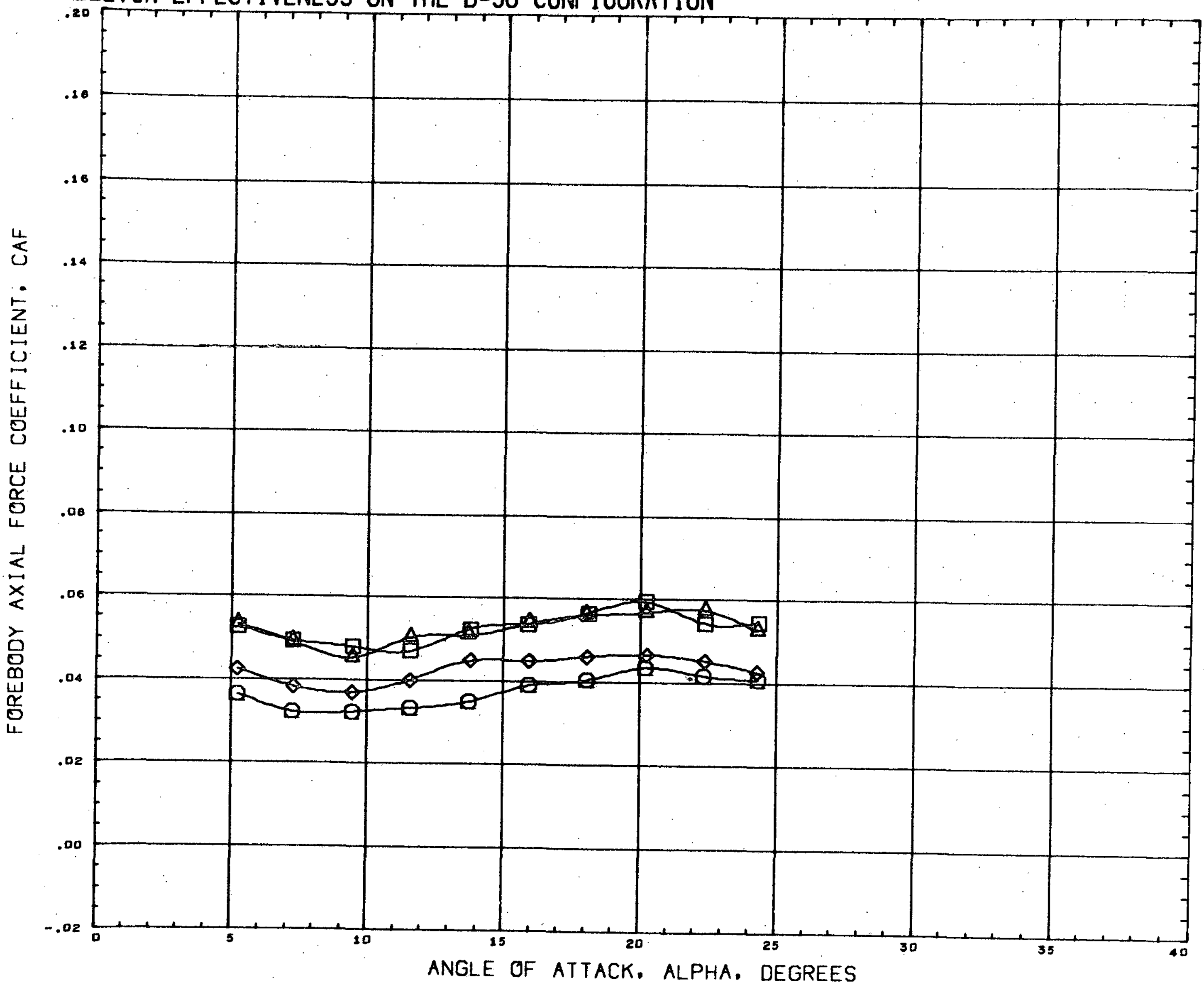
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=10 C=0 R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C B25W19C8V10 E=-20 C=0 R=0	0.000	-20.000	0.000	0.000

MACH 0.594

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



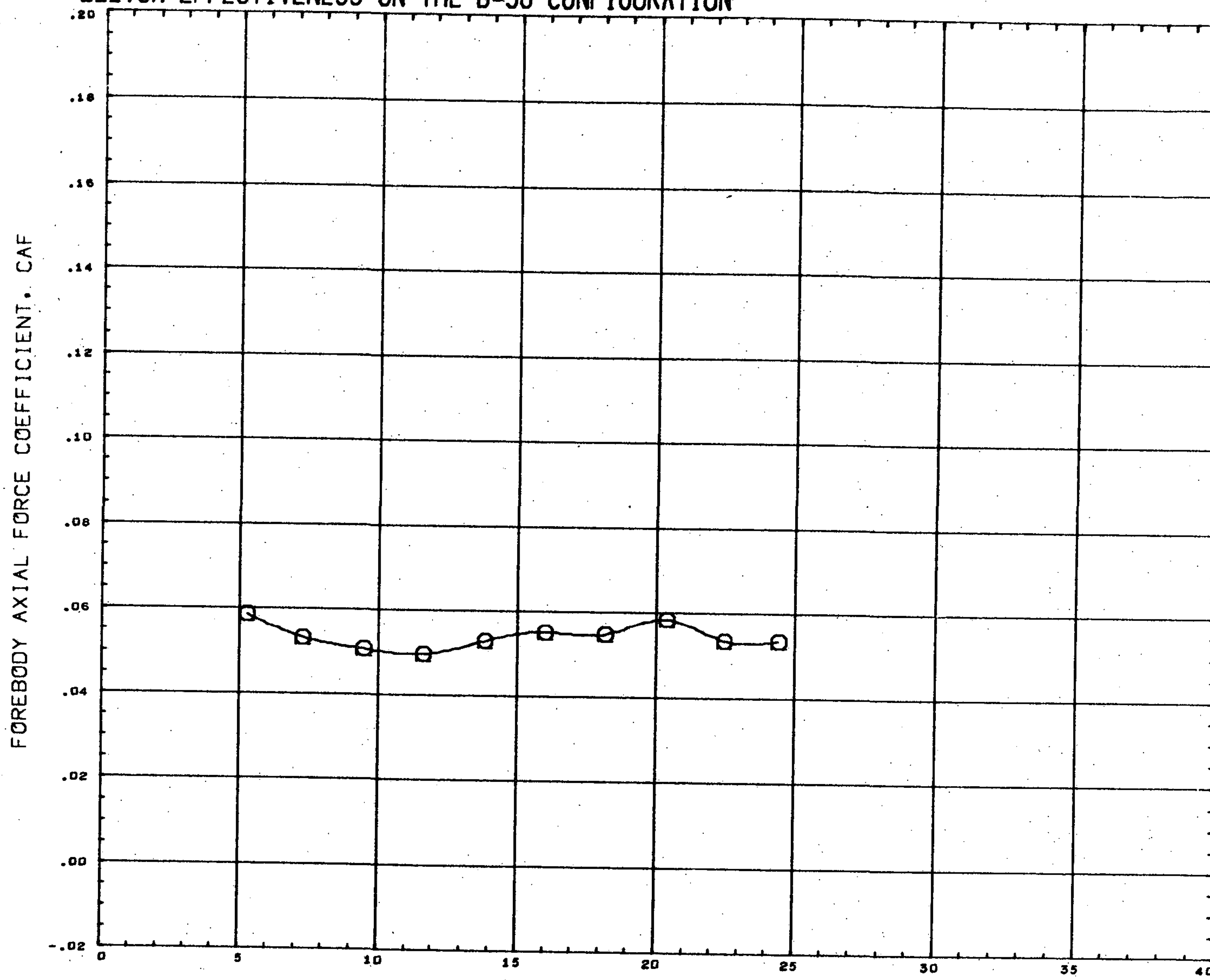
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.897

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



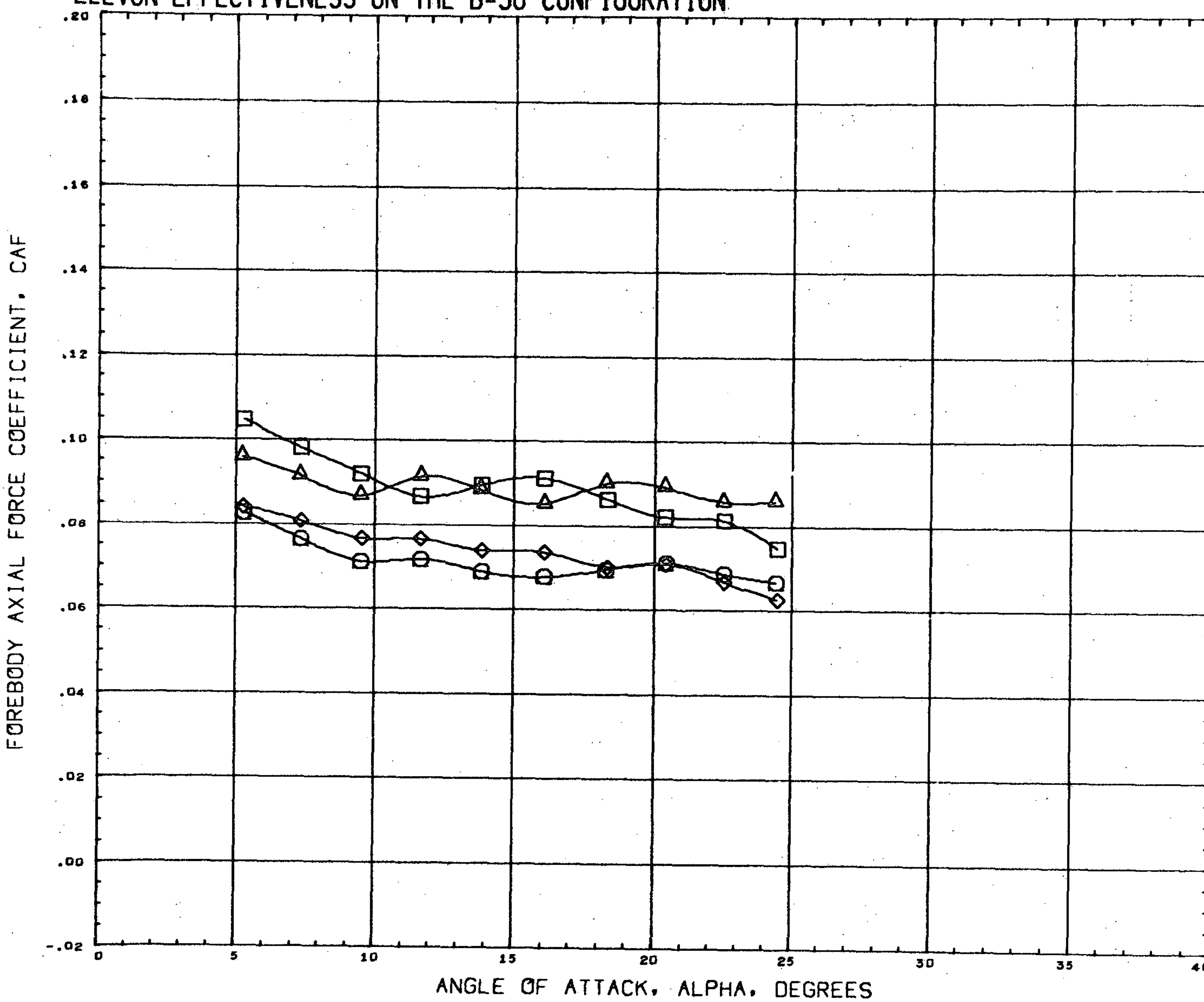
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V1D E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.961

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

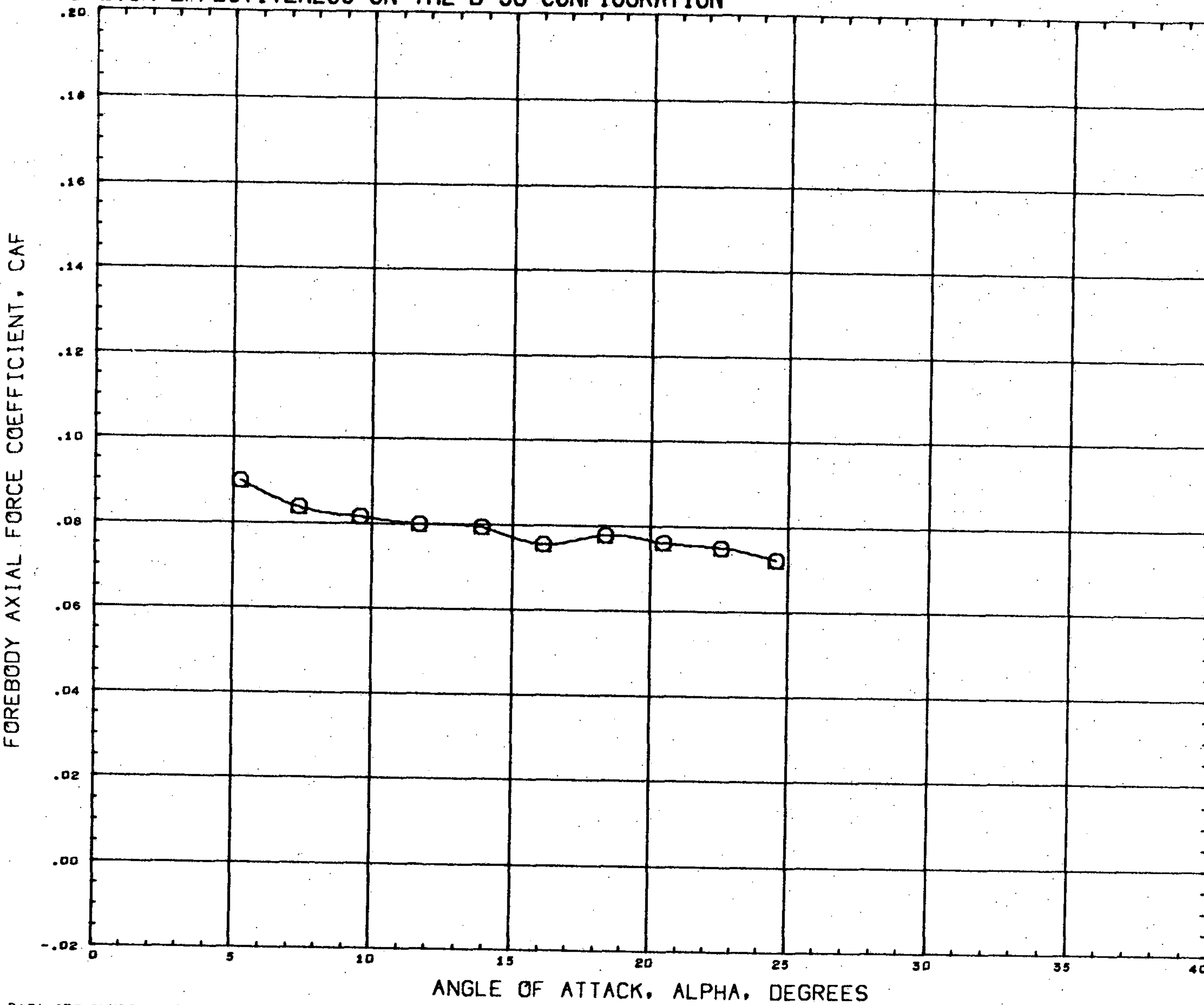


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.999

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

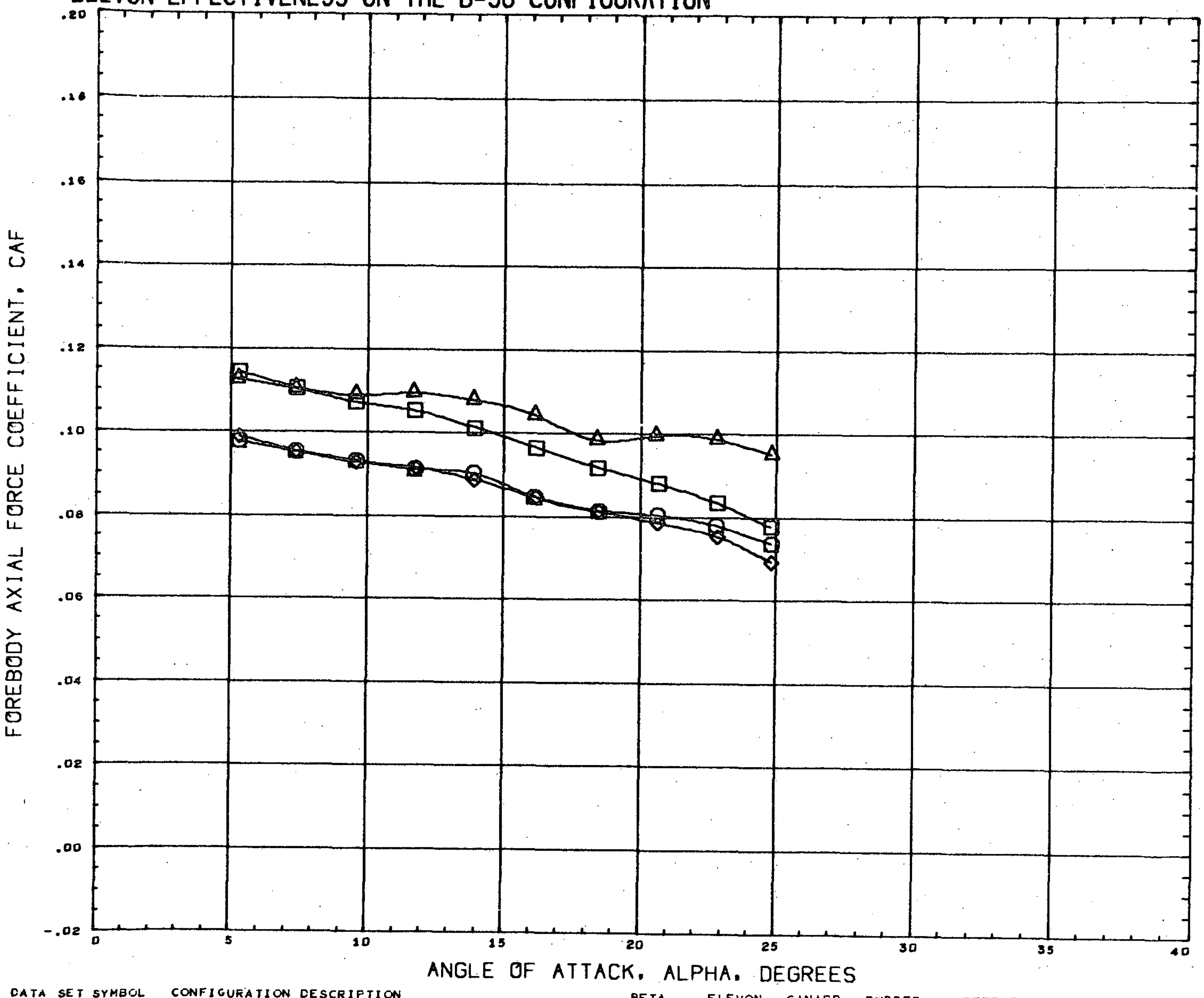


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	-20.000	0.000	0.000

MACH 1.043

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



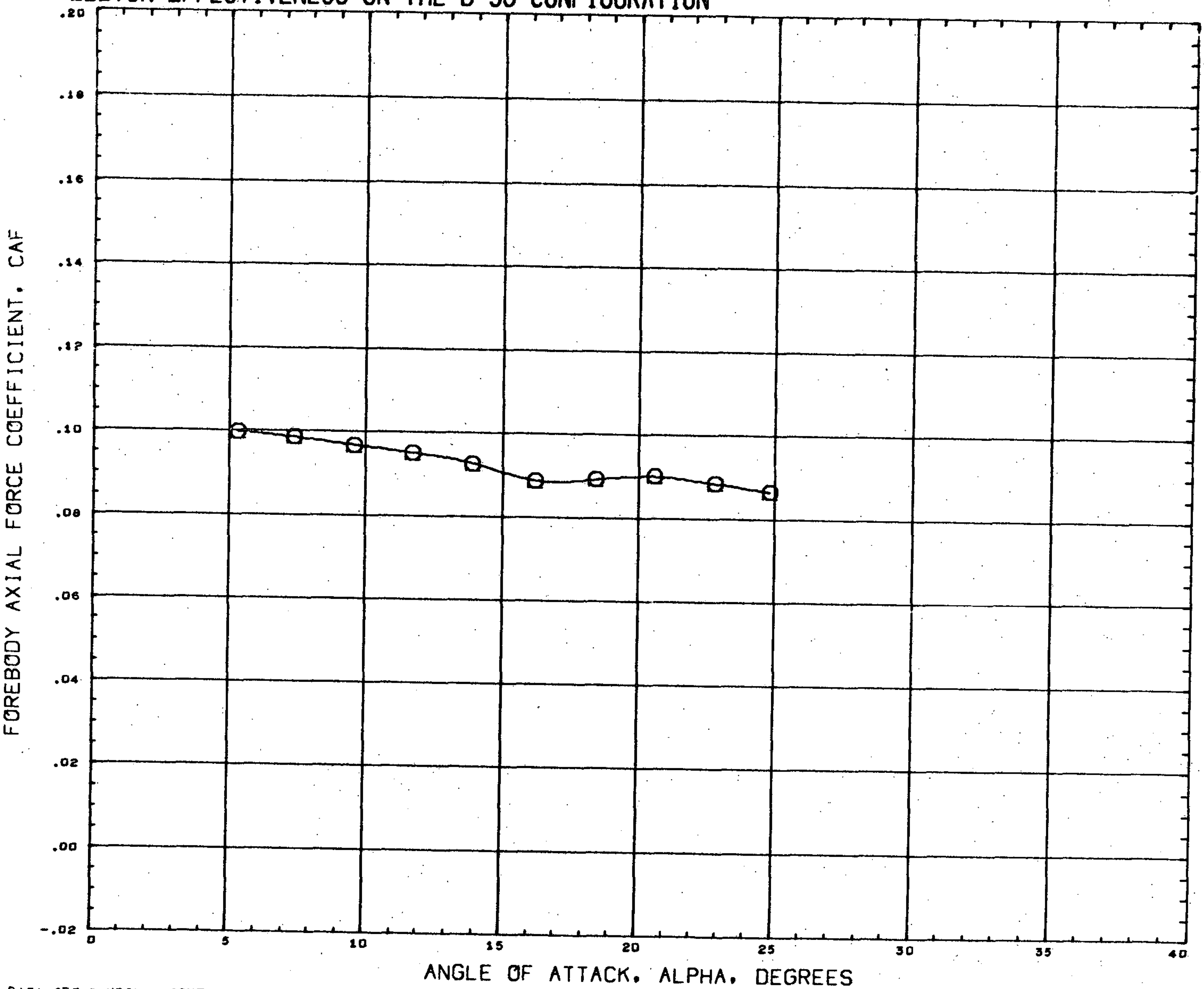
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.195

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

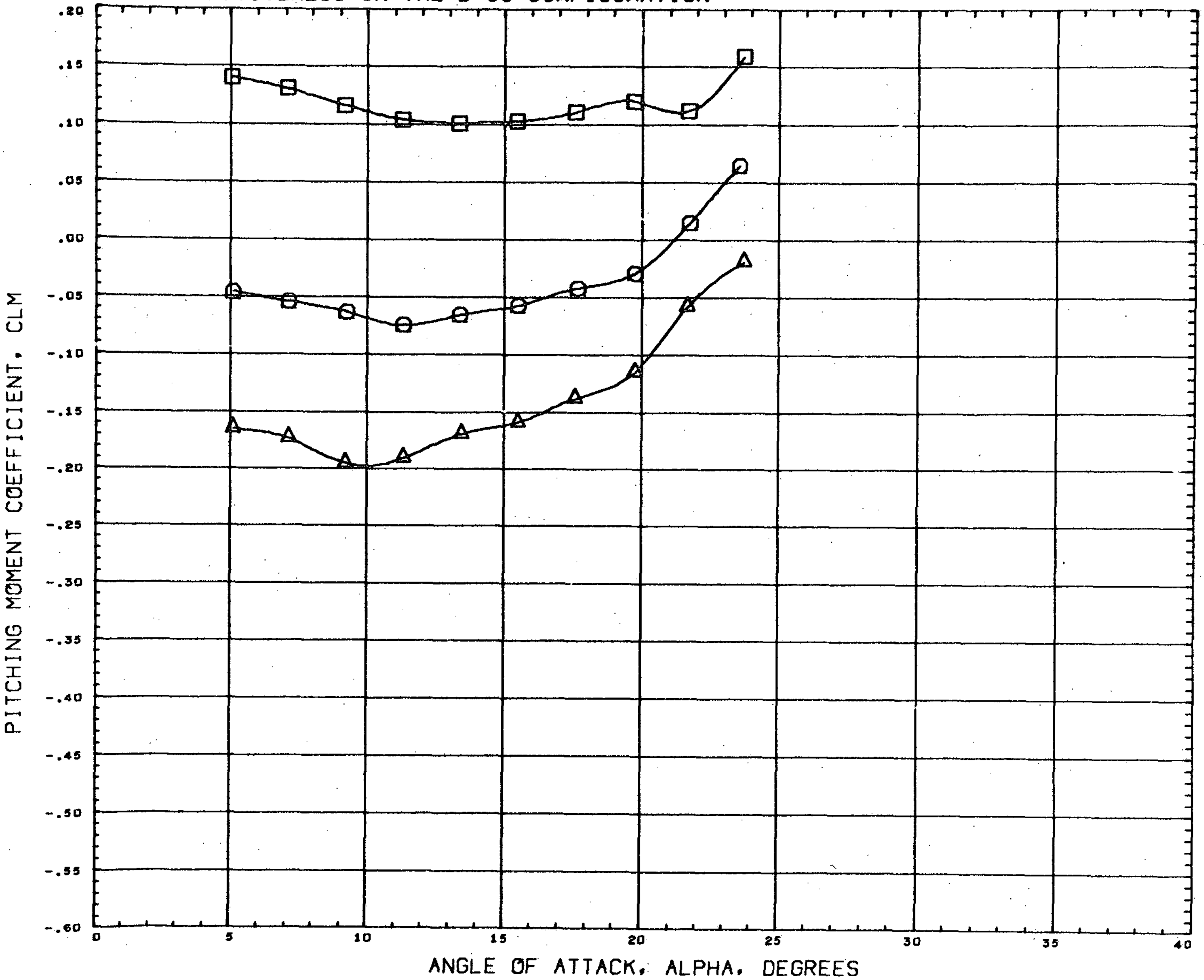


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	-20.000	0.000	0.000

MACH 1.453

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

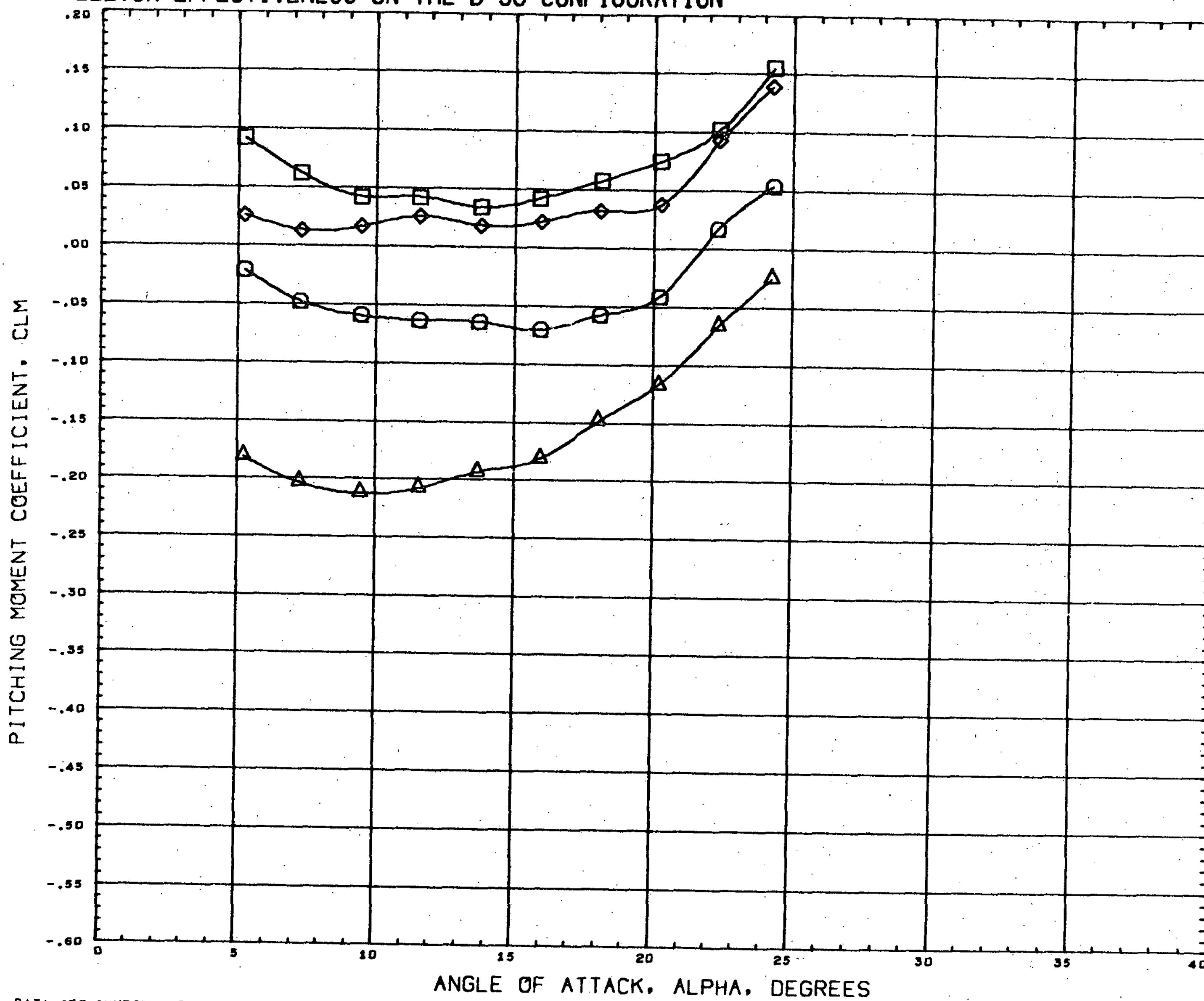


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS					0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.594

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



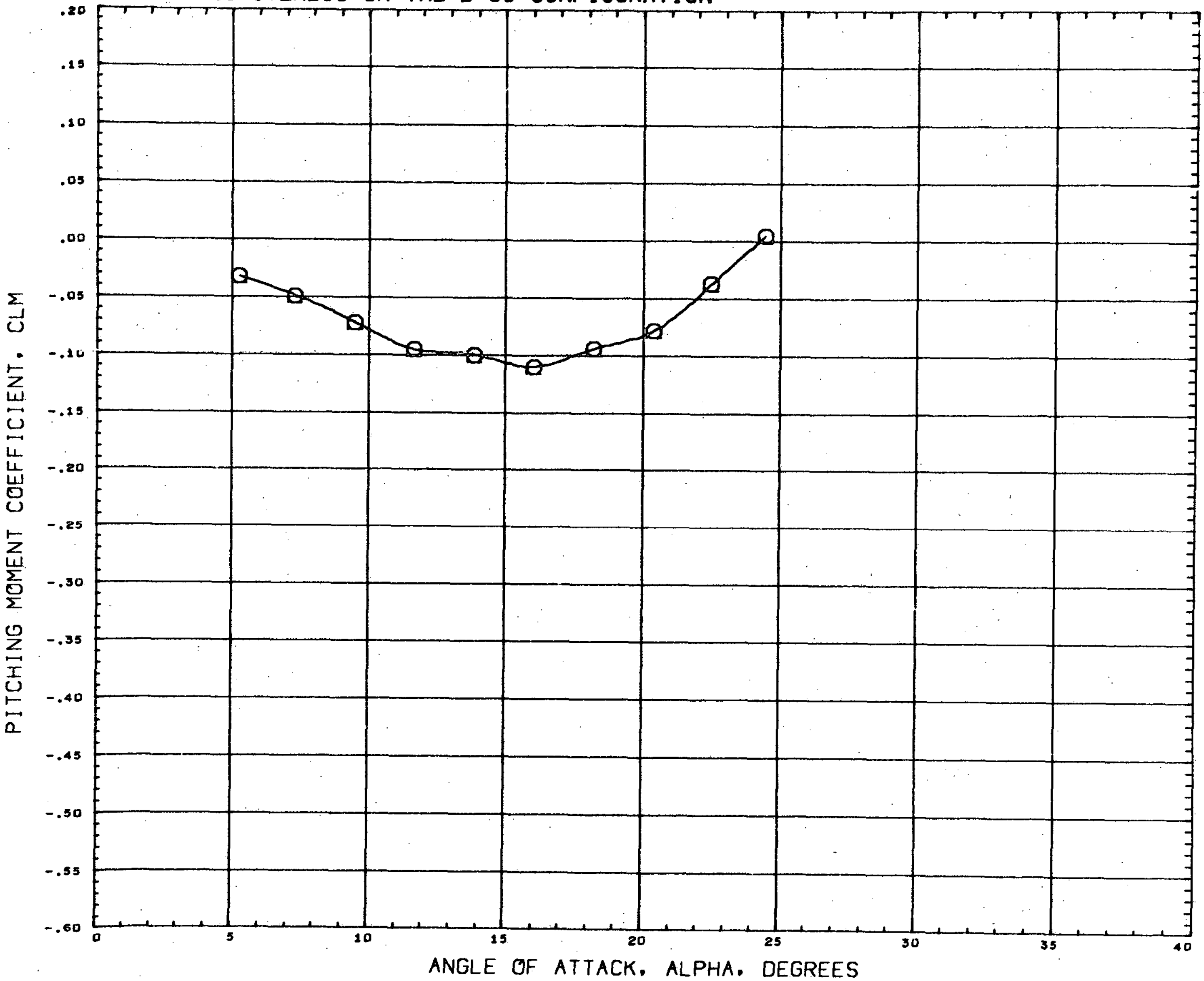
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.897

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

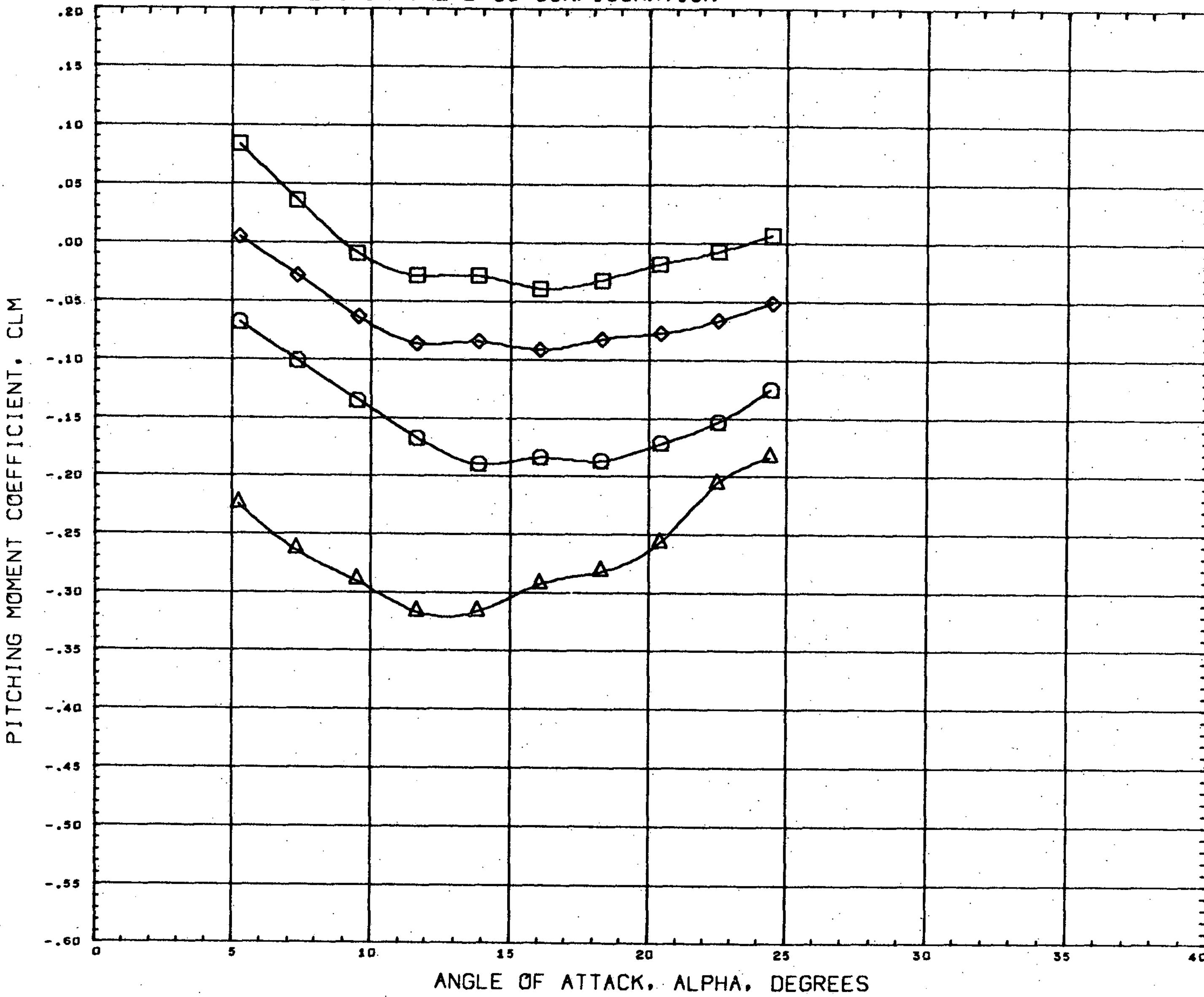


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	-20.000	0.000	0.000

MACH 0.961

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



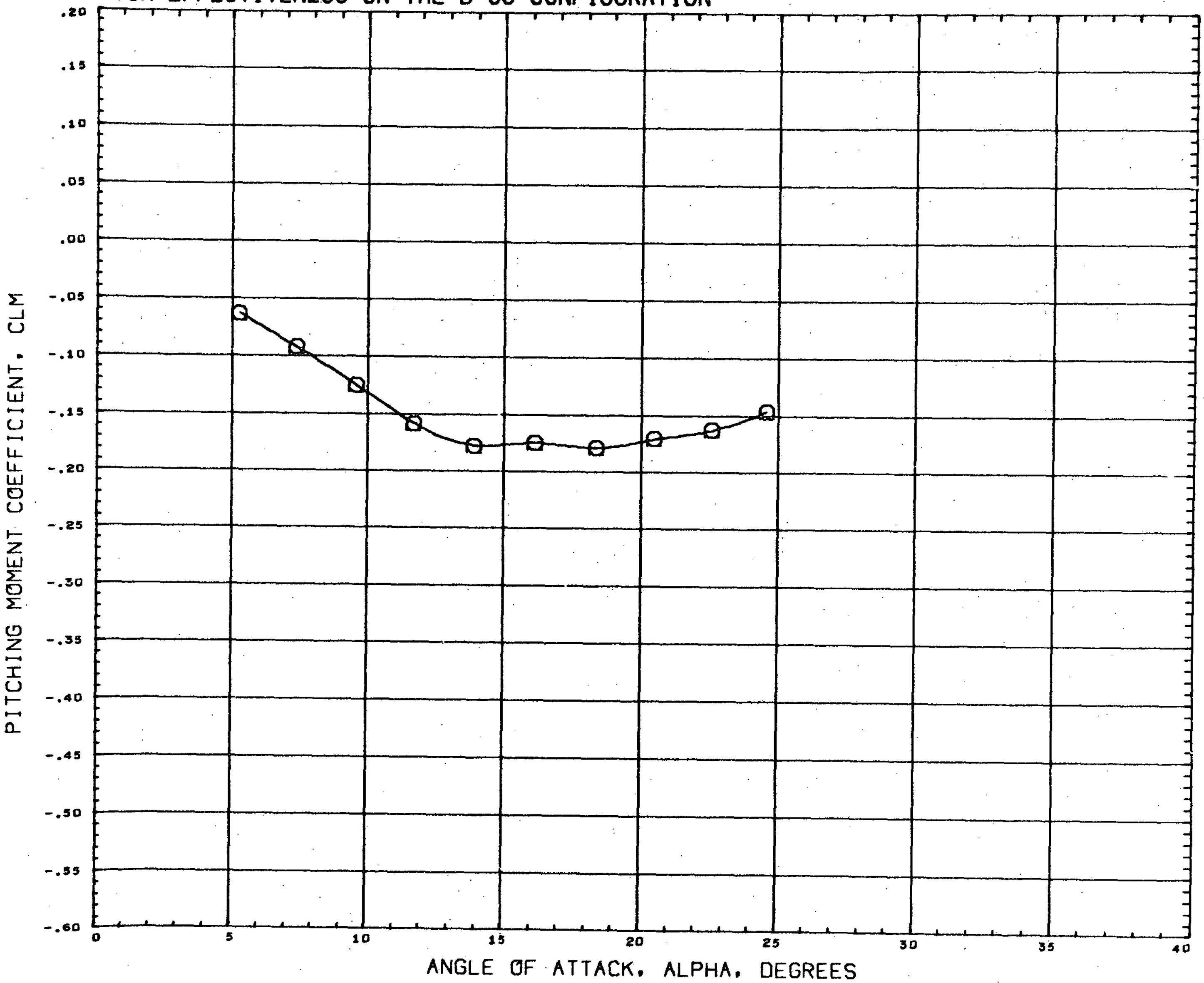
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C B25W19C8V1D E=10 C=0 R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V1D E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C B25W19C8V1D E=-10 C=0 R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C B25W19C8V1D E=-20 C=0 R=0	0.000	-20.000	0.000	0.000

MACH 0.999

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



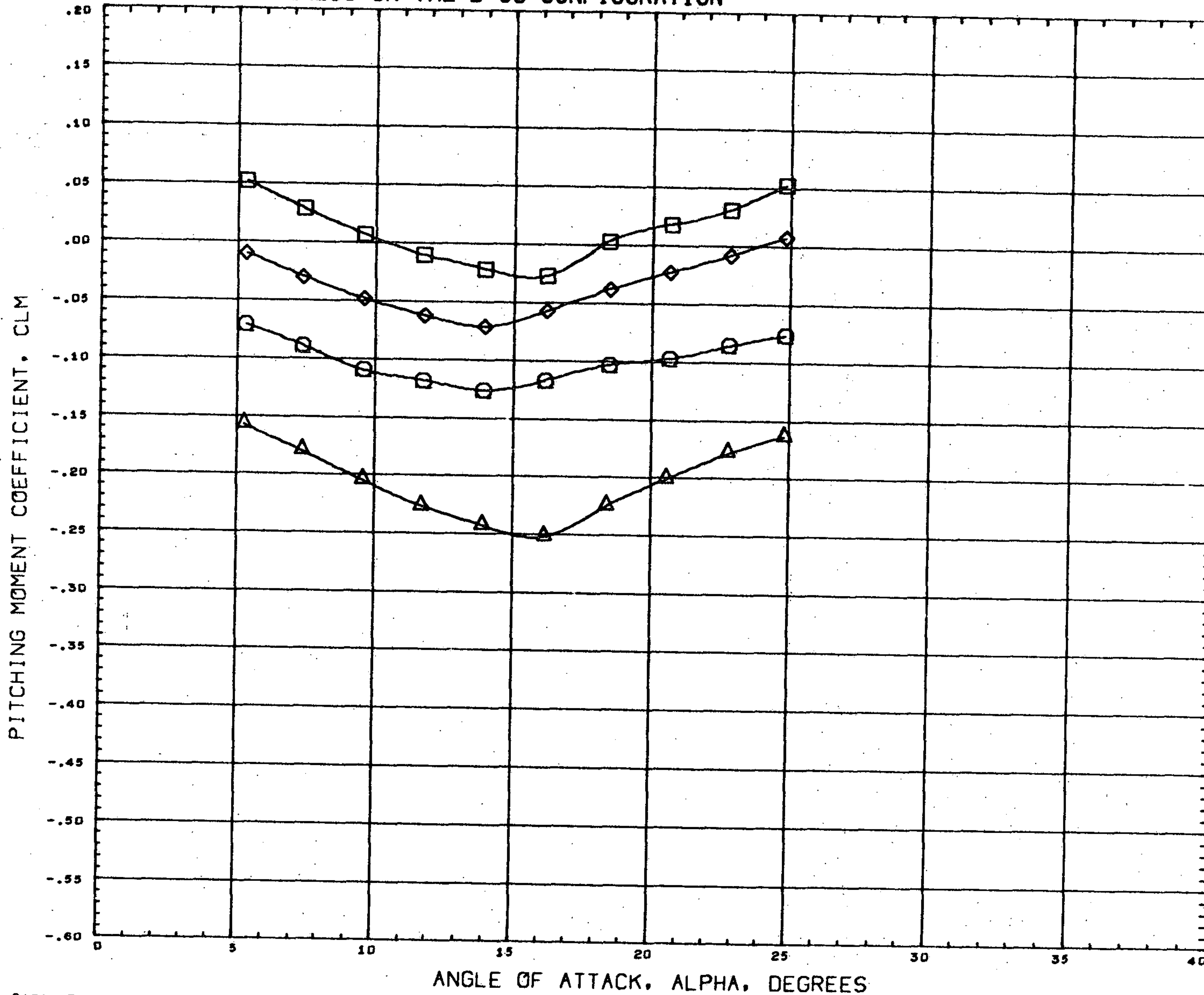
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

MACH 1.043

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.195

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

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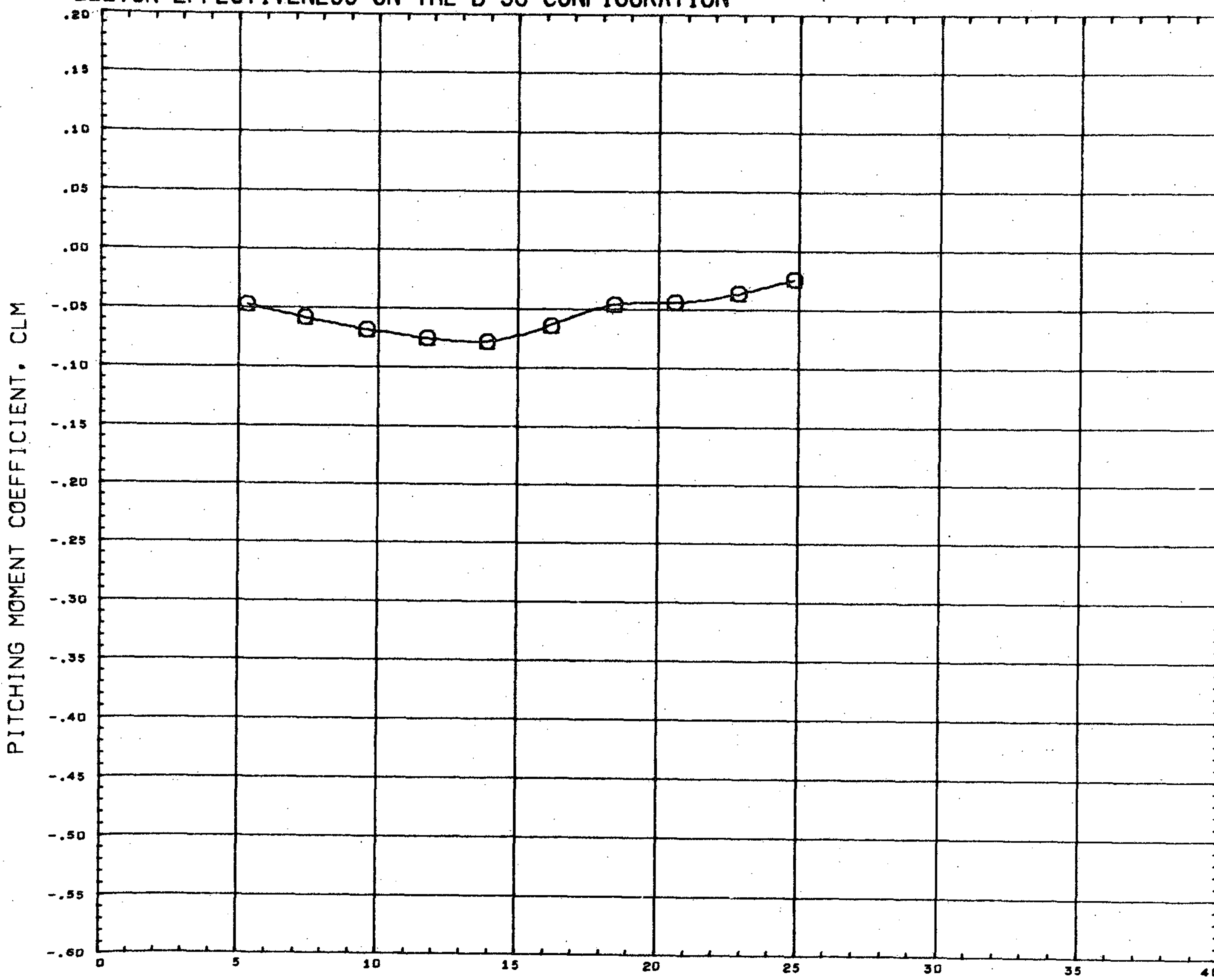
ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



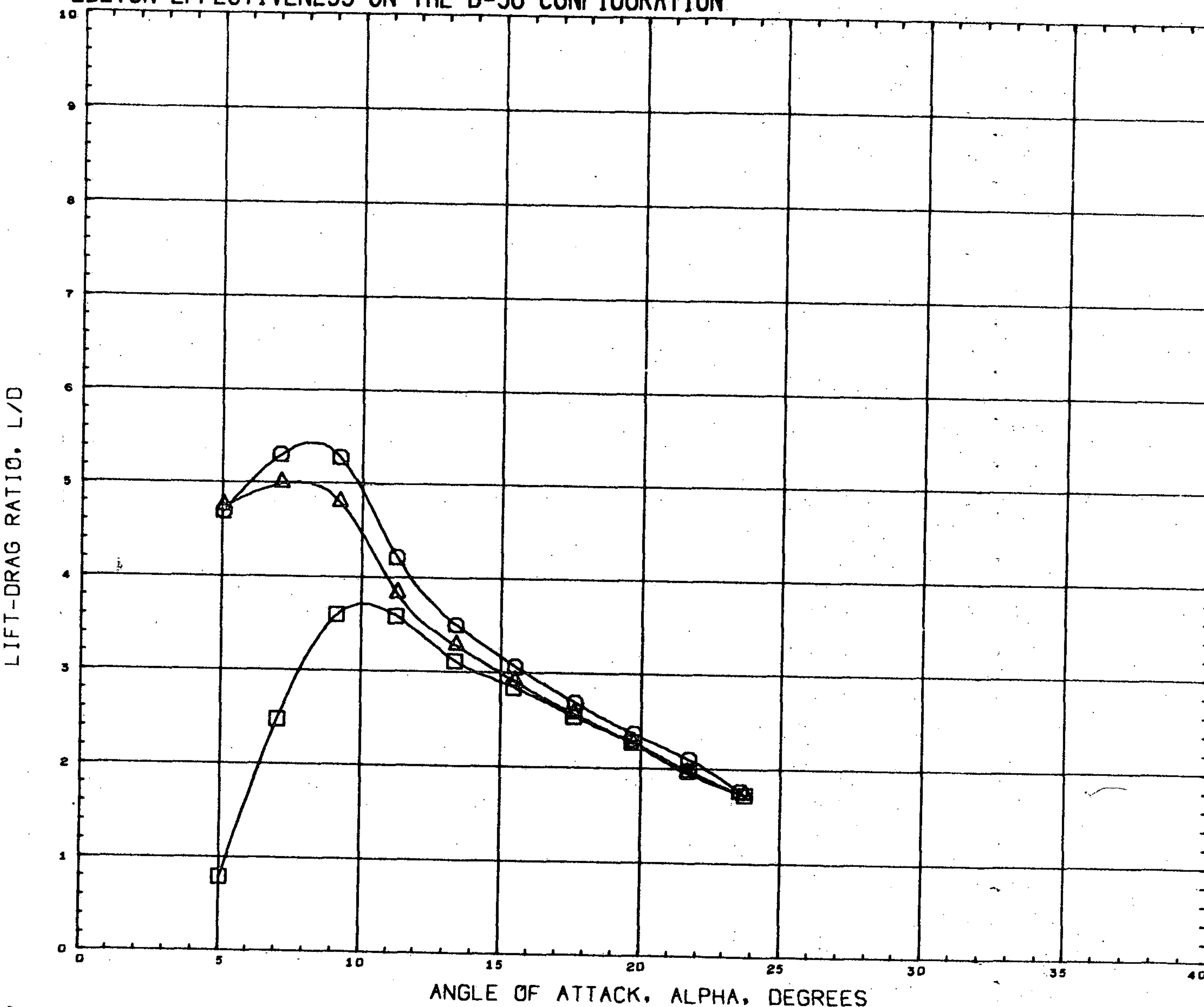
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000

MACH 1.453

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

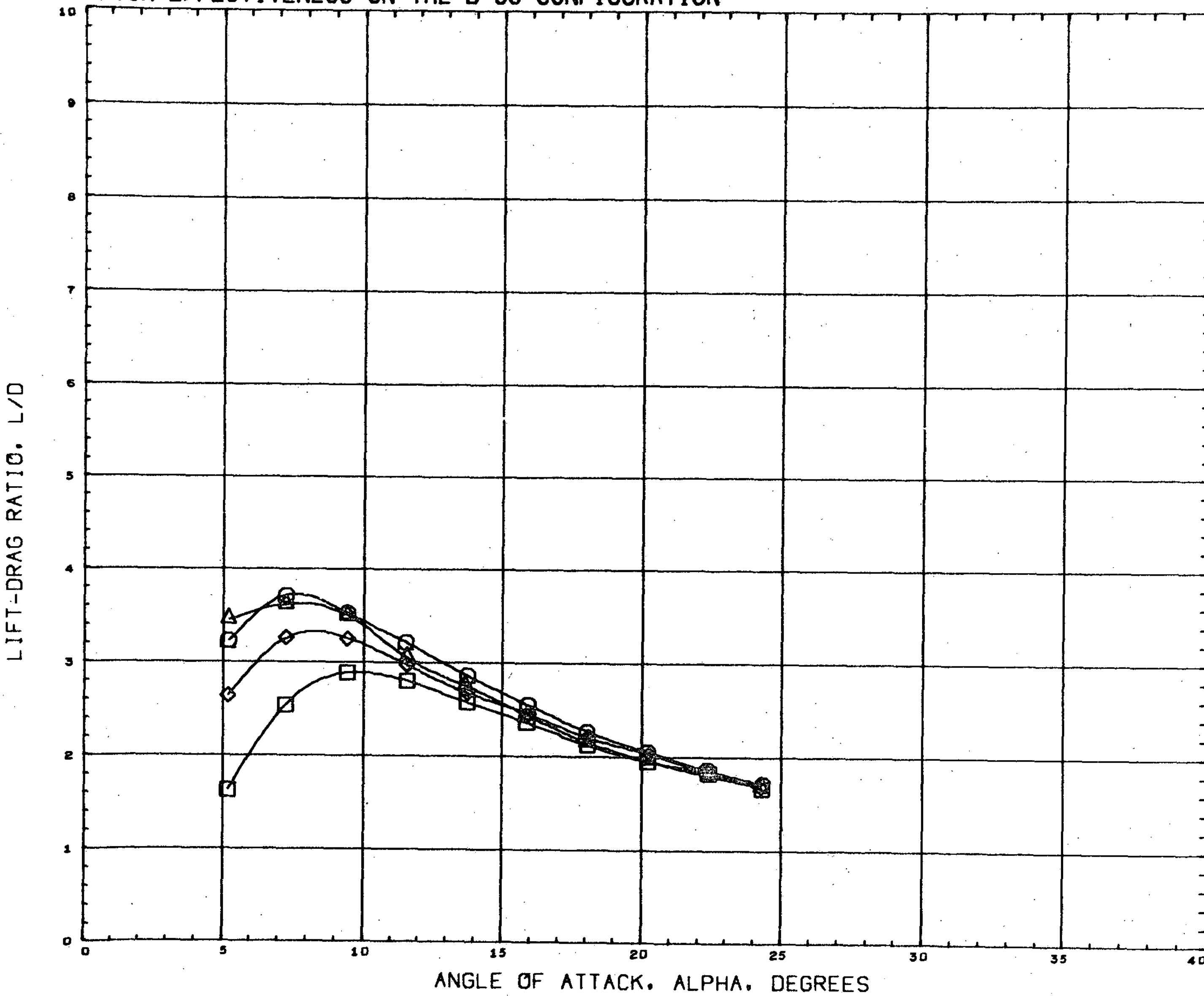


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=10 C=0 R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C B25W19C8V10 E=-20 C=0 R=0	0.000	-20.000	0.000	0.000

MACH 0.594

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



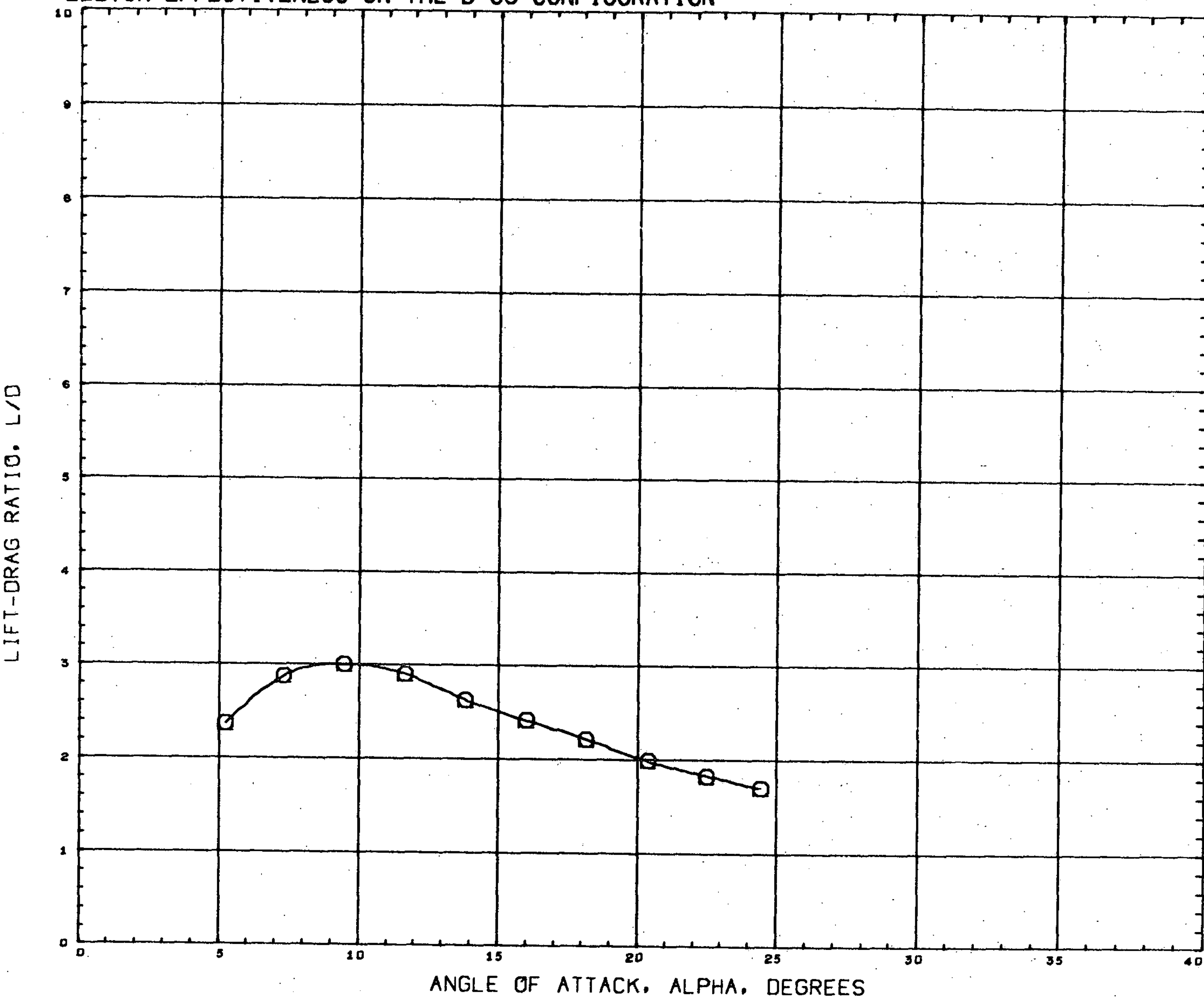
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.897

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

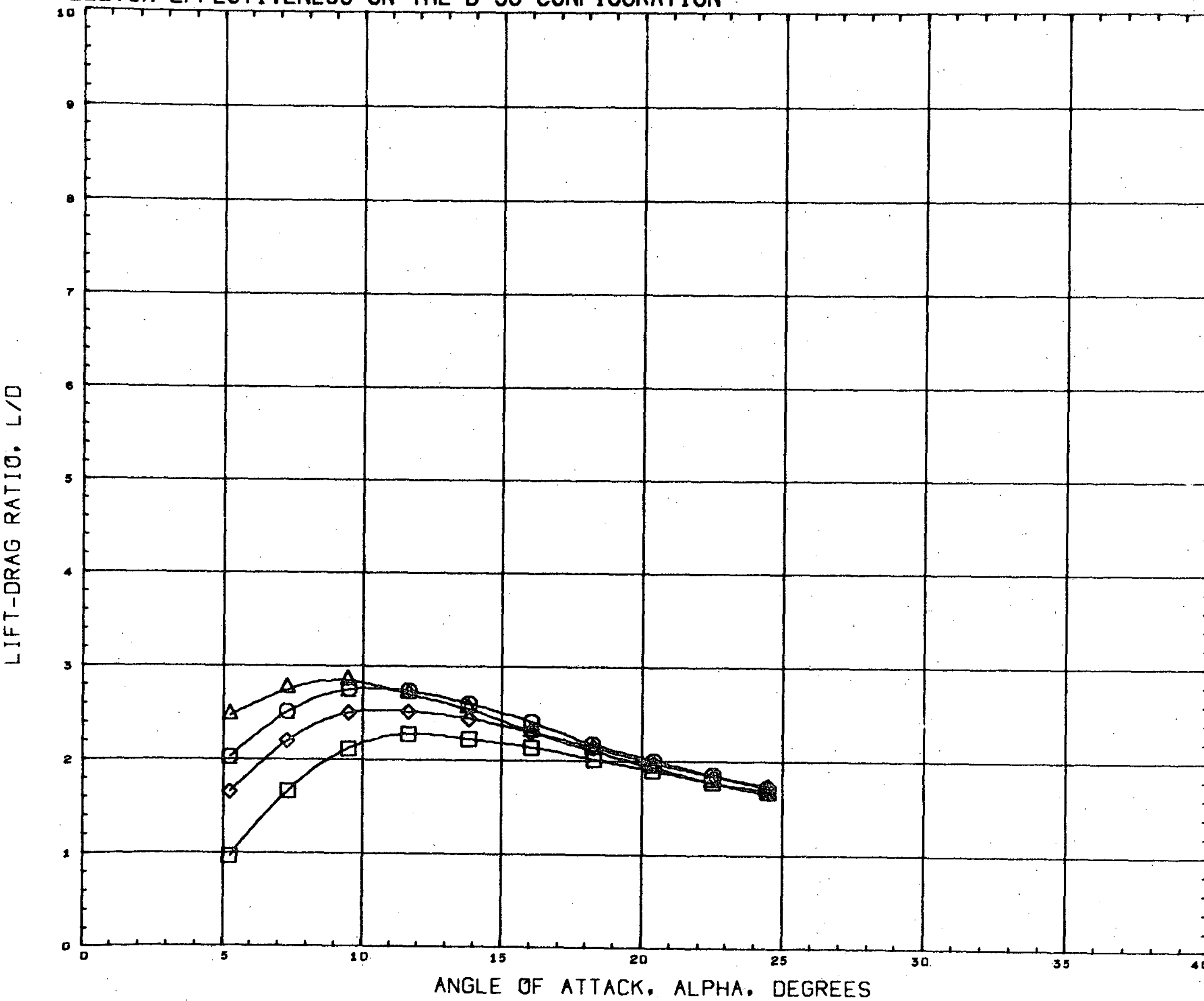


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.050

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

MACH 0.961

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



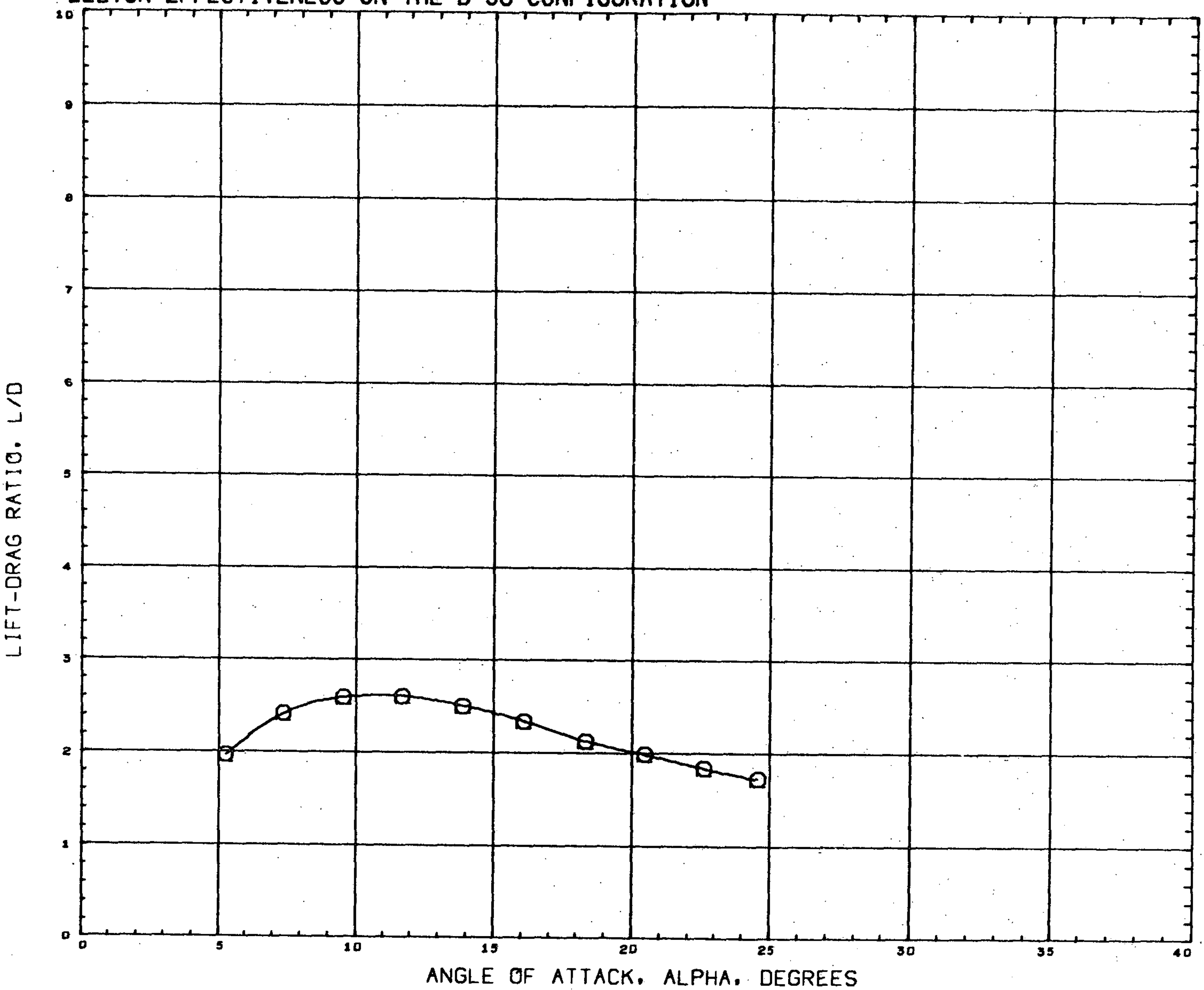
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION						BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC	TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC	TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC	TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC	TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.999

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



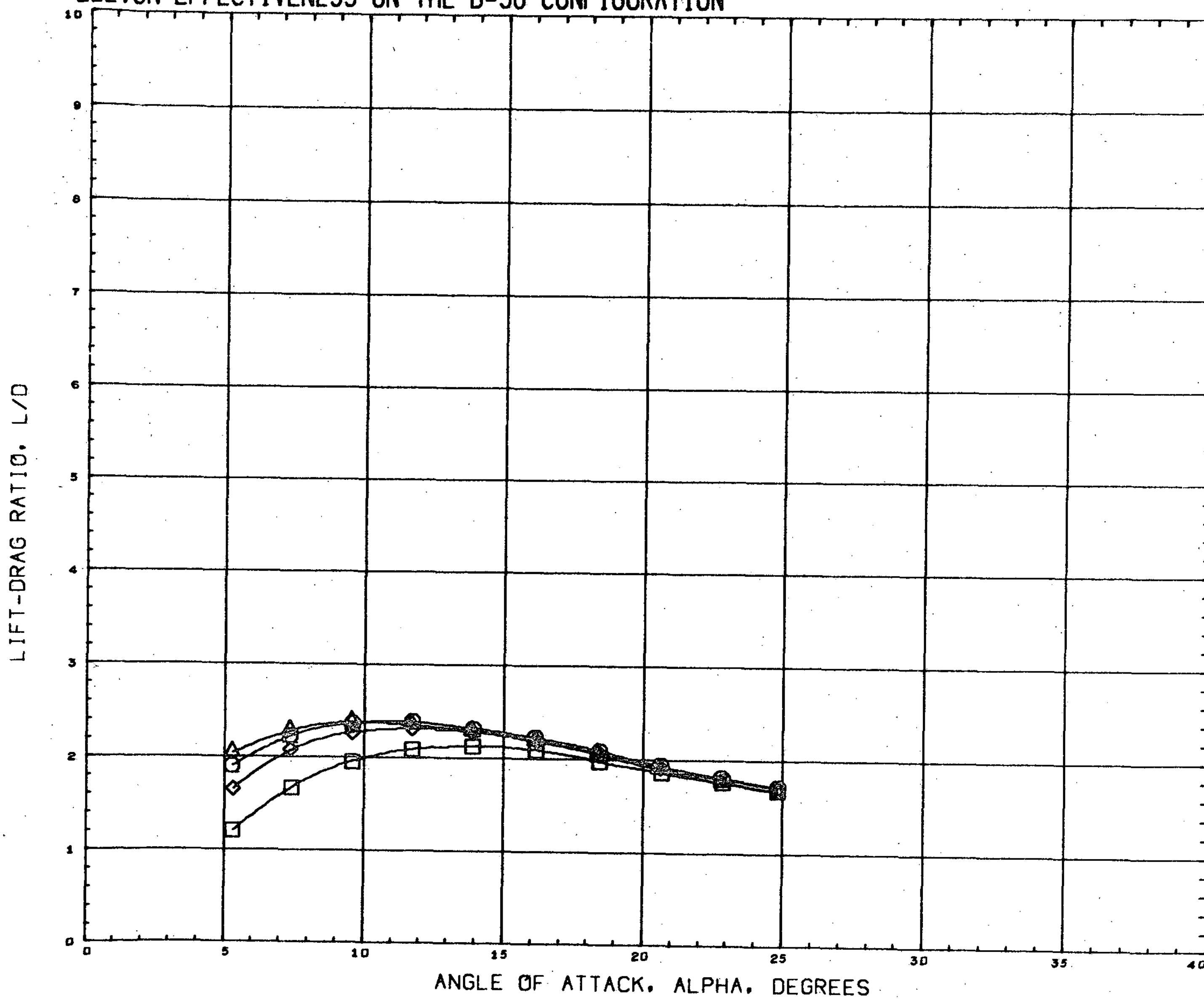
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000

MACH 1.043

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



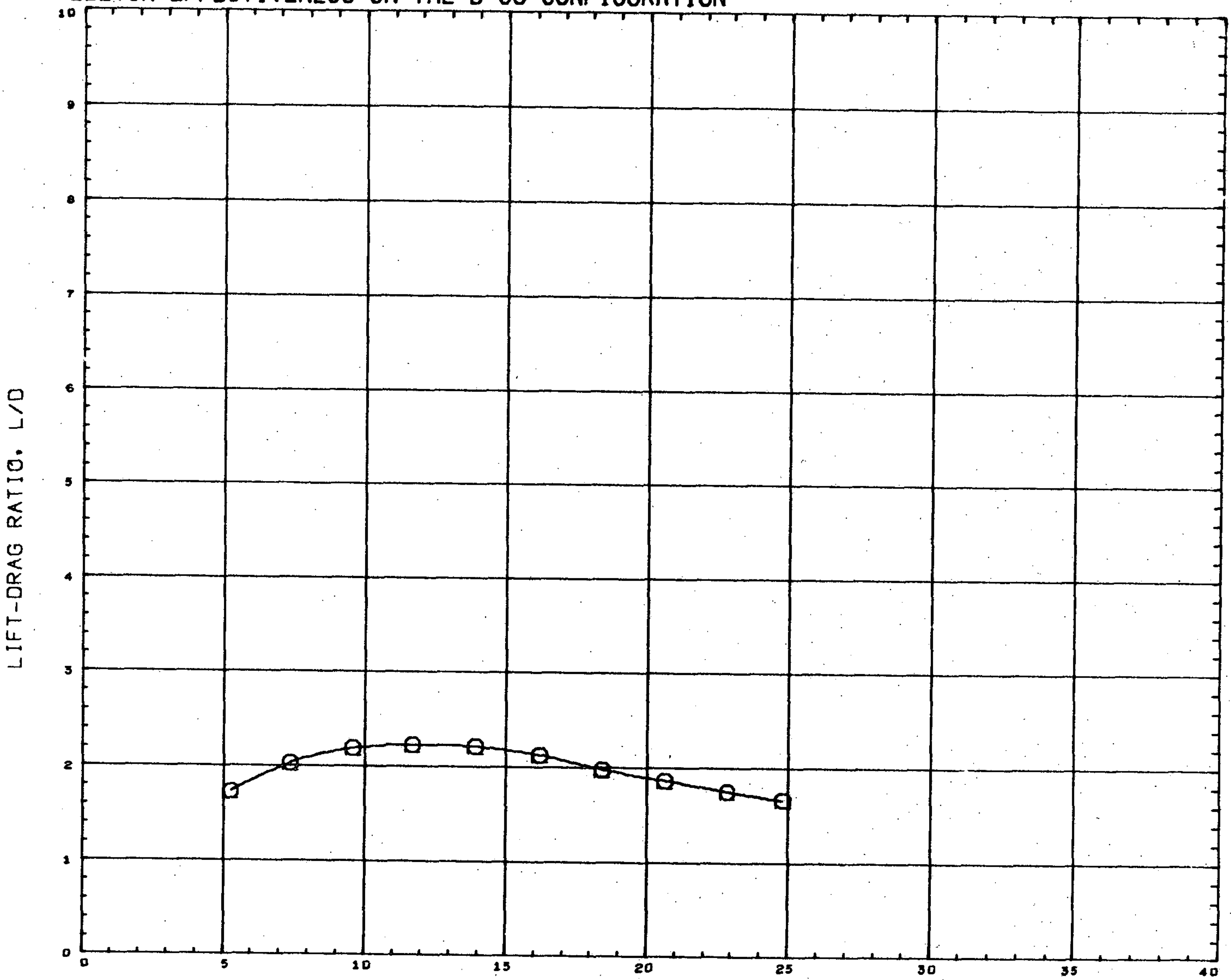
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.195

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

C-2

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



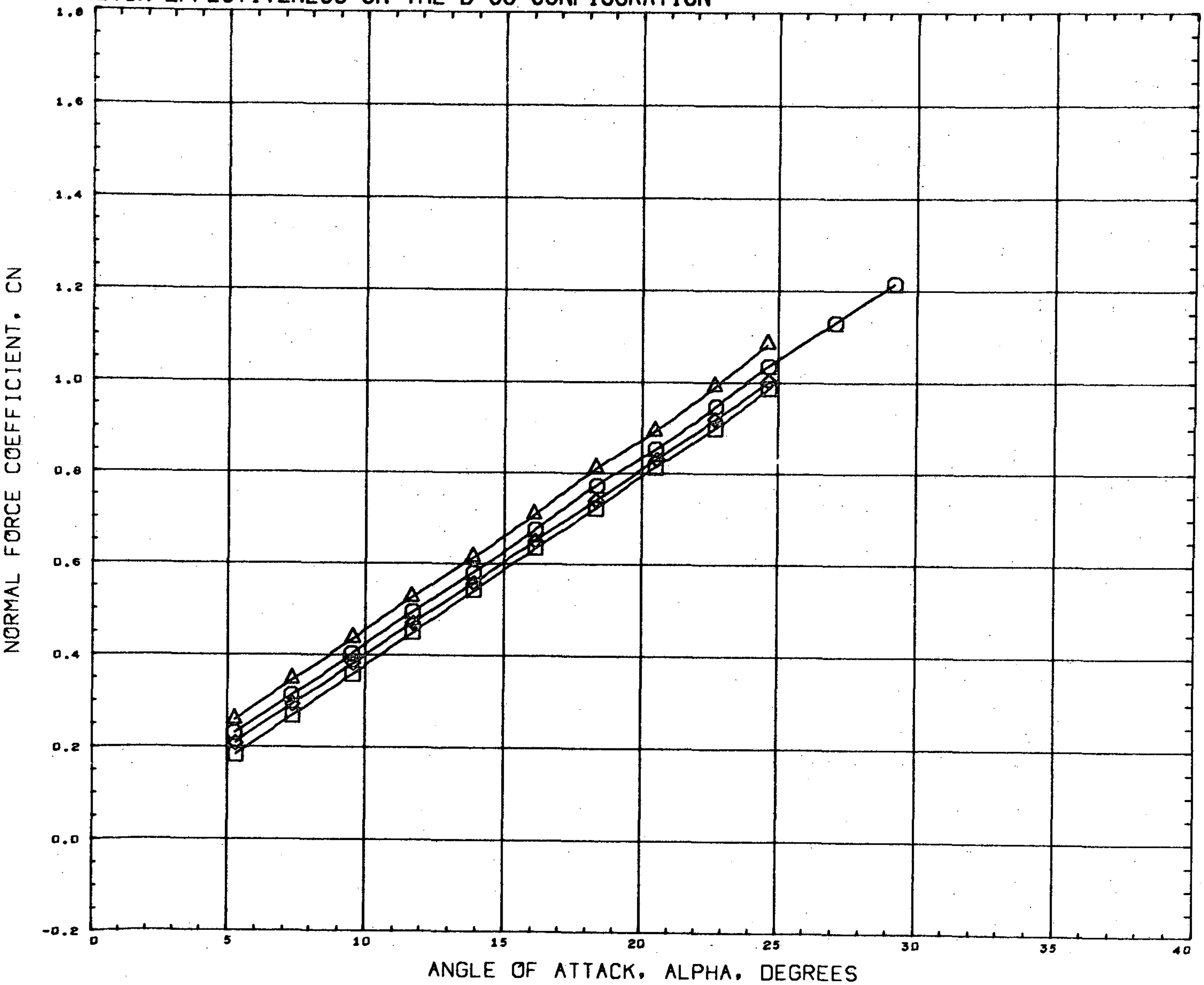
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWI-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.453

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

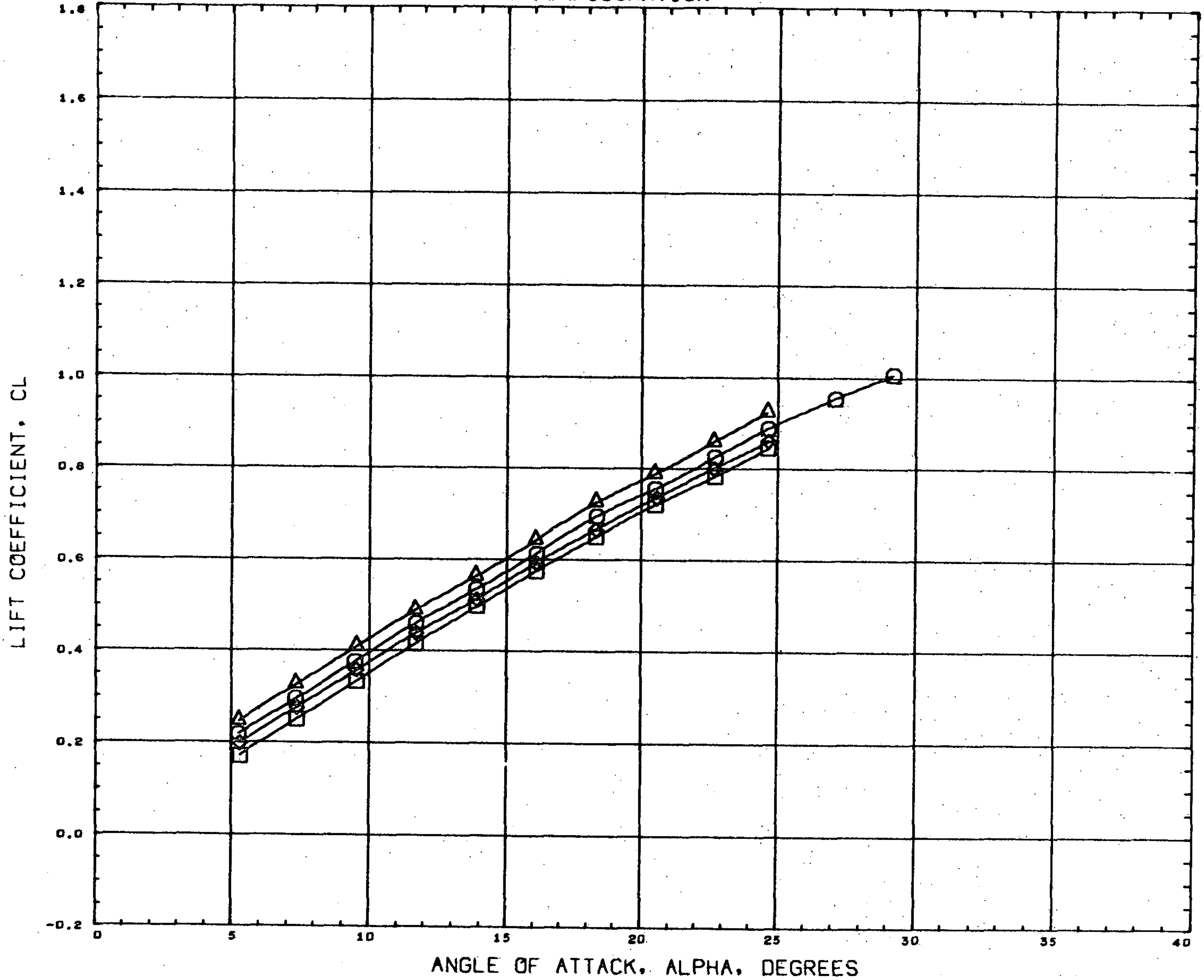


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(F35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35ECA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(F35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(F35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.955

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

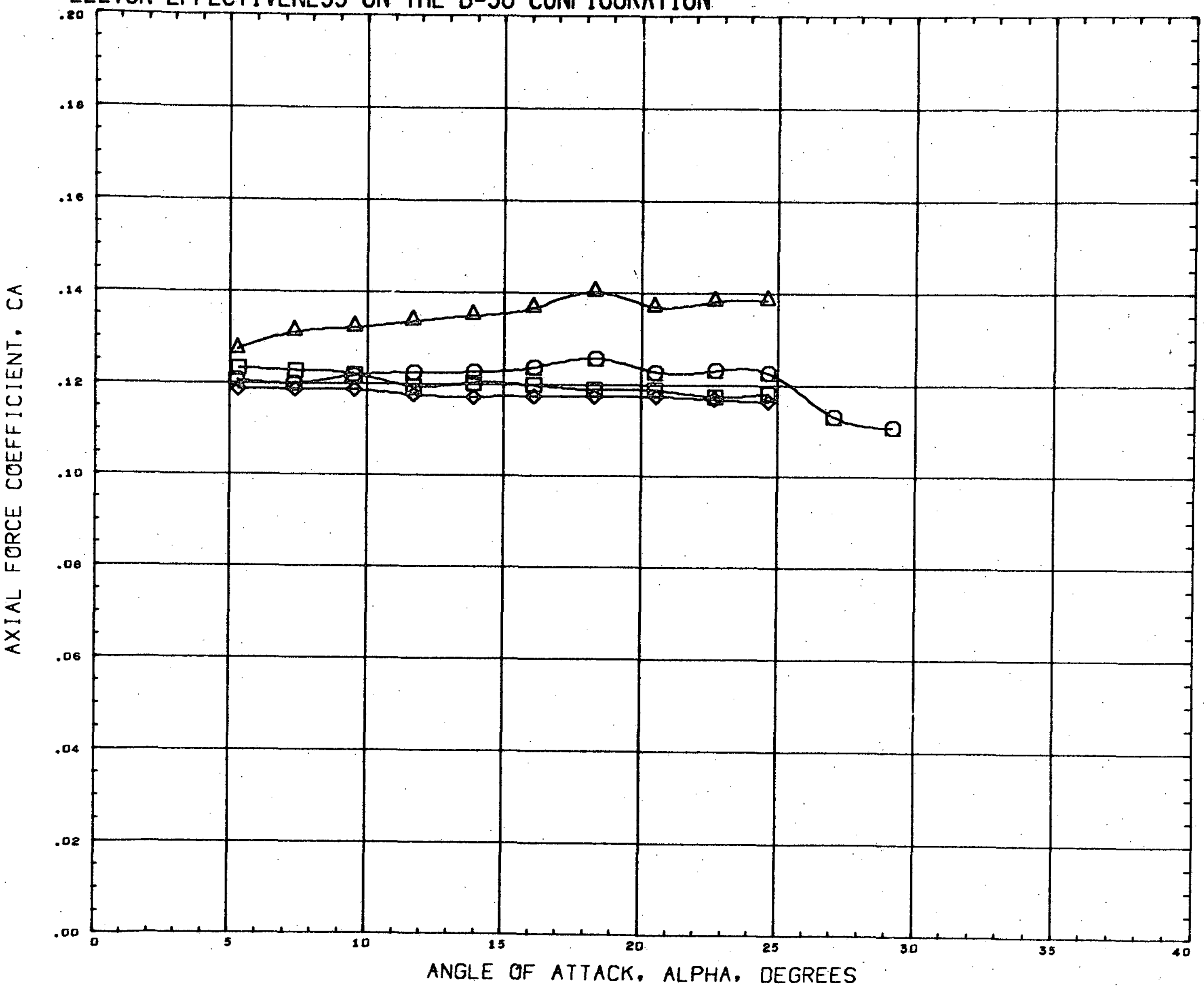


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(F35EAA)	△	MSFC TWT-493 GD/C B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35ECA)	○	MSFC TWT-493 GD/C B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(F35EAC)	◇	MSFC TWT-493 GD/C B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(F35EAB)	□	MSFC TWT-493 GD/C B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.955

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



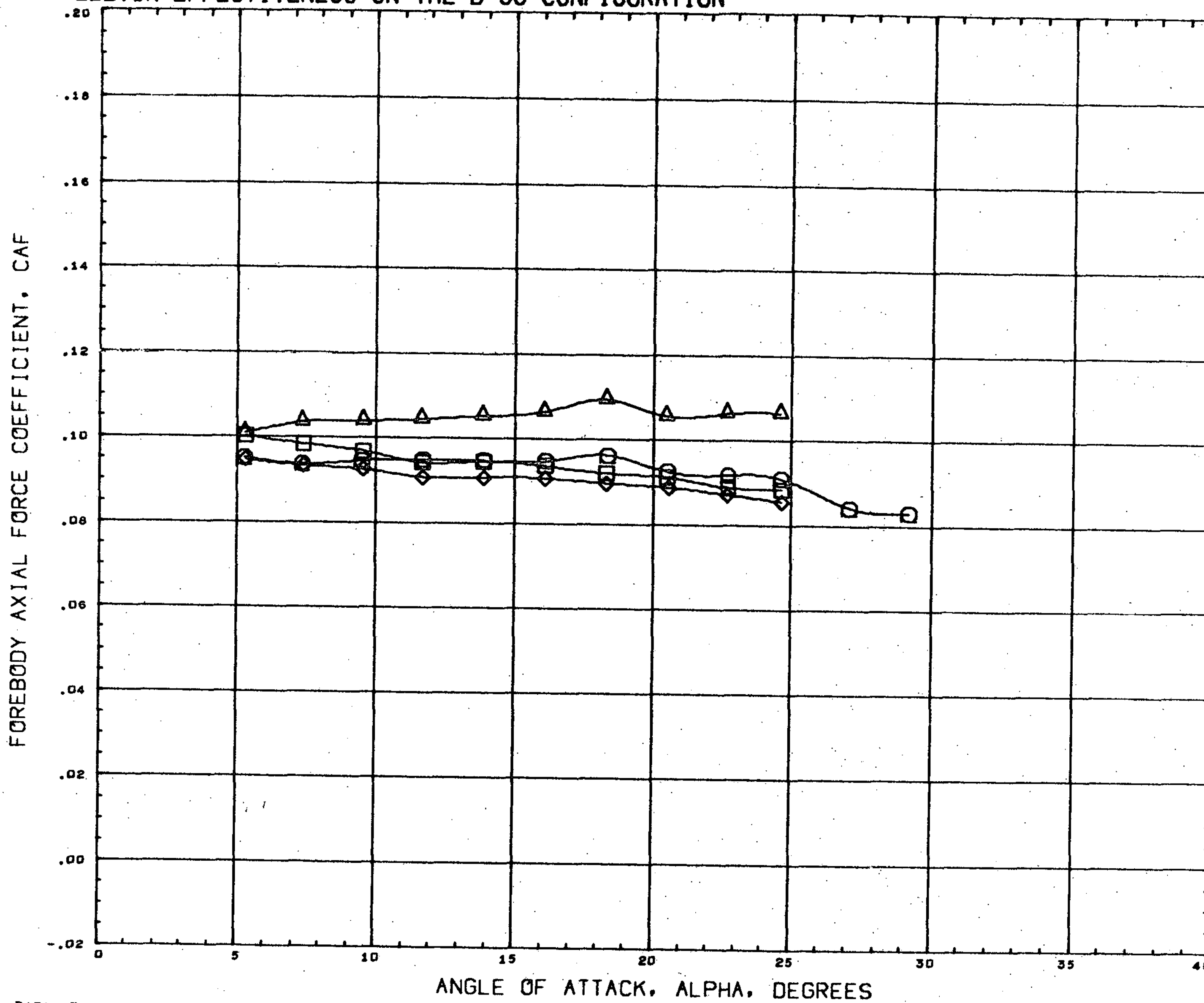
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(F35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35ECA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(F35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(F35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.955

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



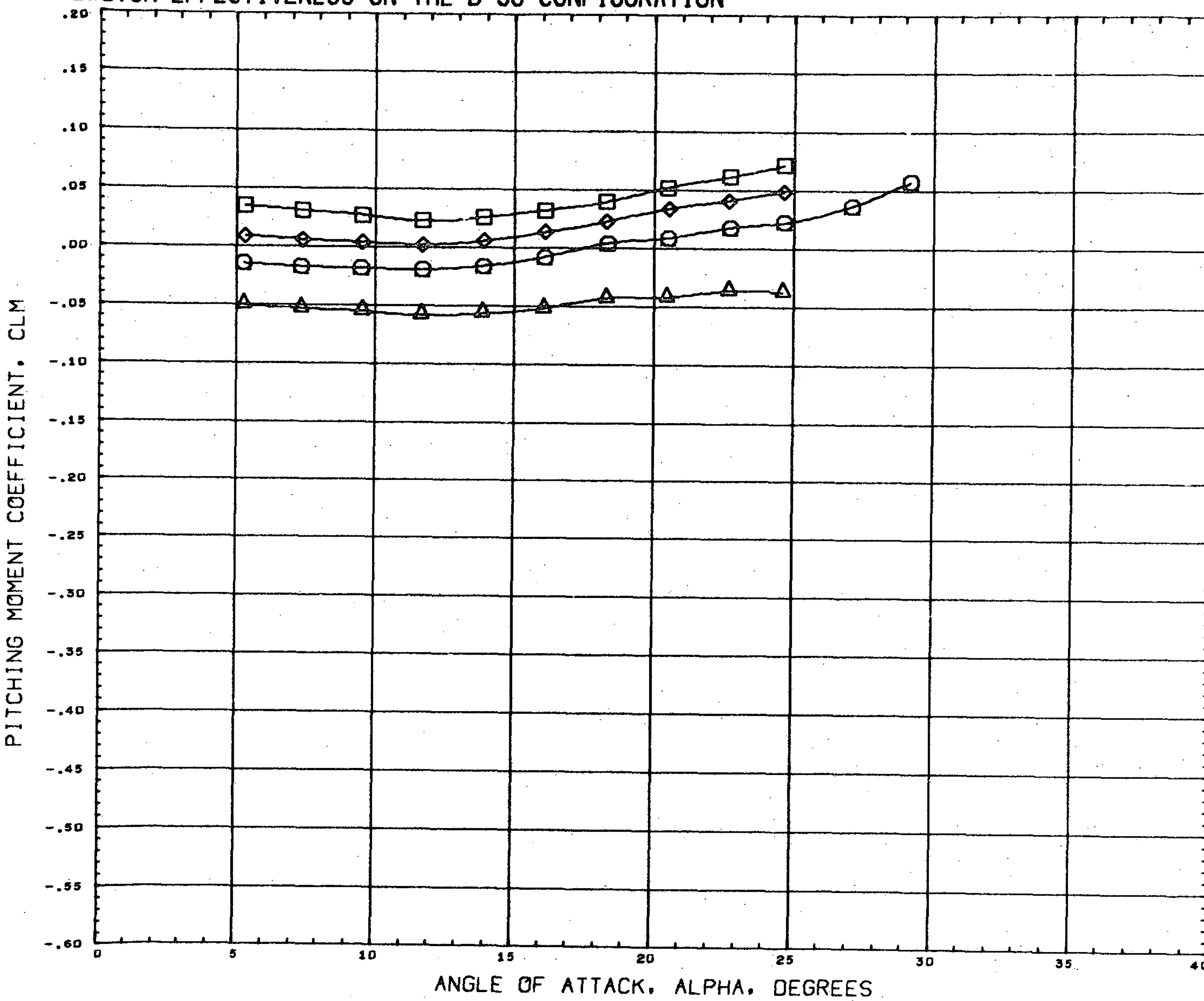
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(F35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35ECA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(F35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(F35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.955

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



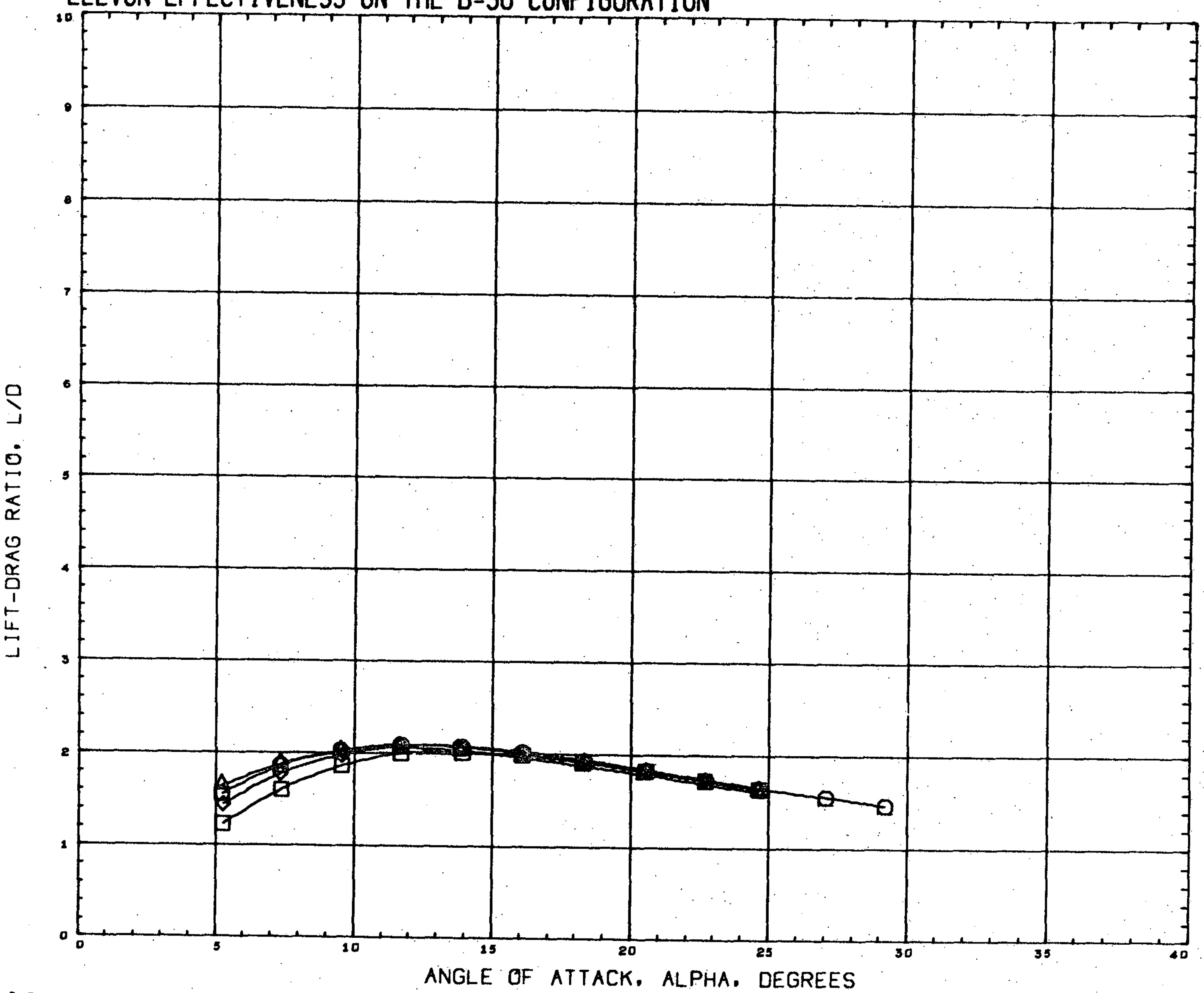
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION						BETA	ELEVON	CANARD	RUDDER
(F35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0		0.000	10.000	0.000	0.000
(E35ECA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0		0.000	0.000	0.000	0.000
(F35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0		0.000	-10.000	0.000	0.000
(F35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0		0.000	-20.000	0.000	0.000

MACH 1.955

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRP	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

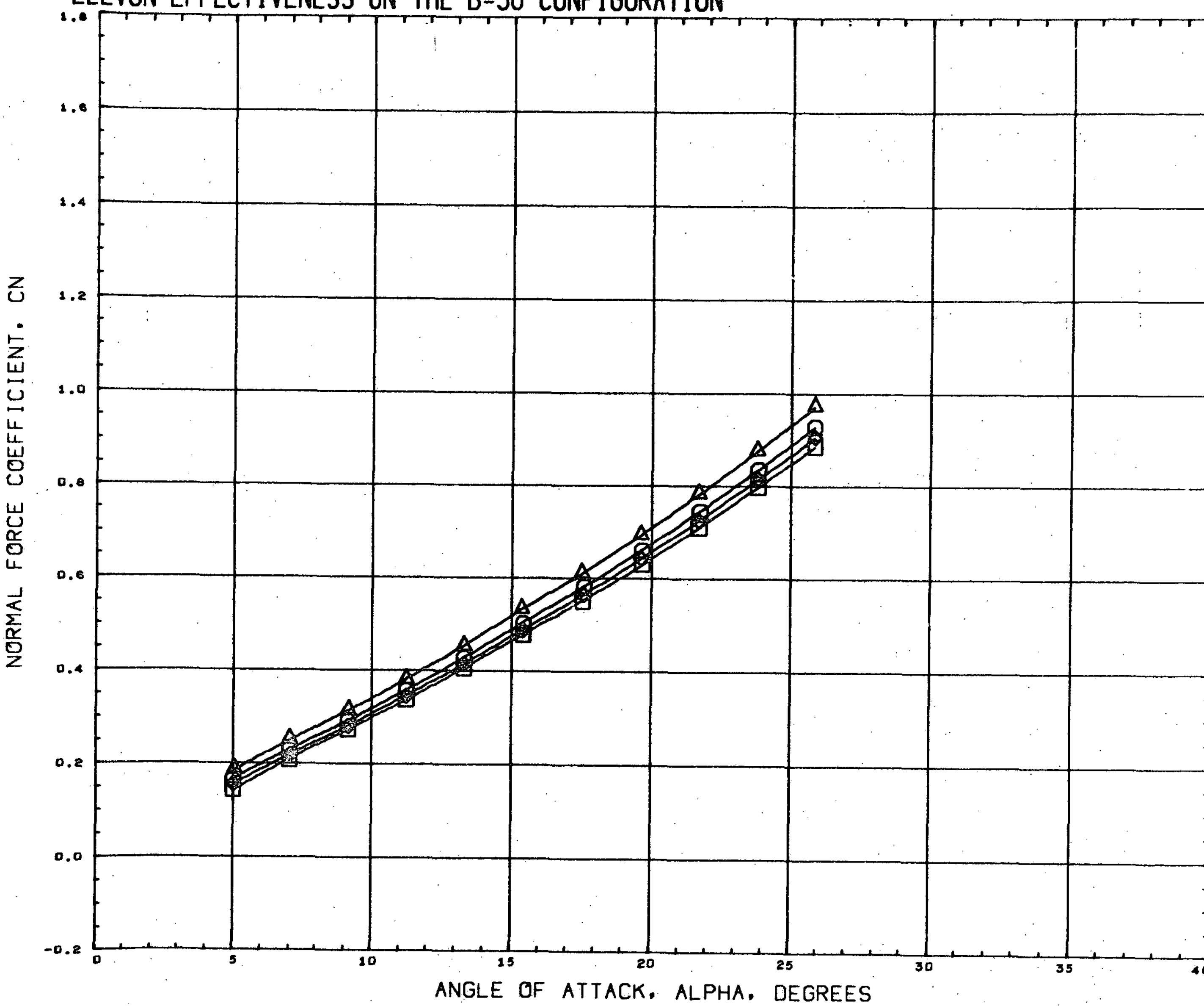


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(F35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35ECA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(F35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(F35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.955

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



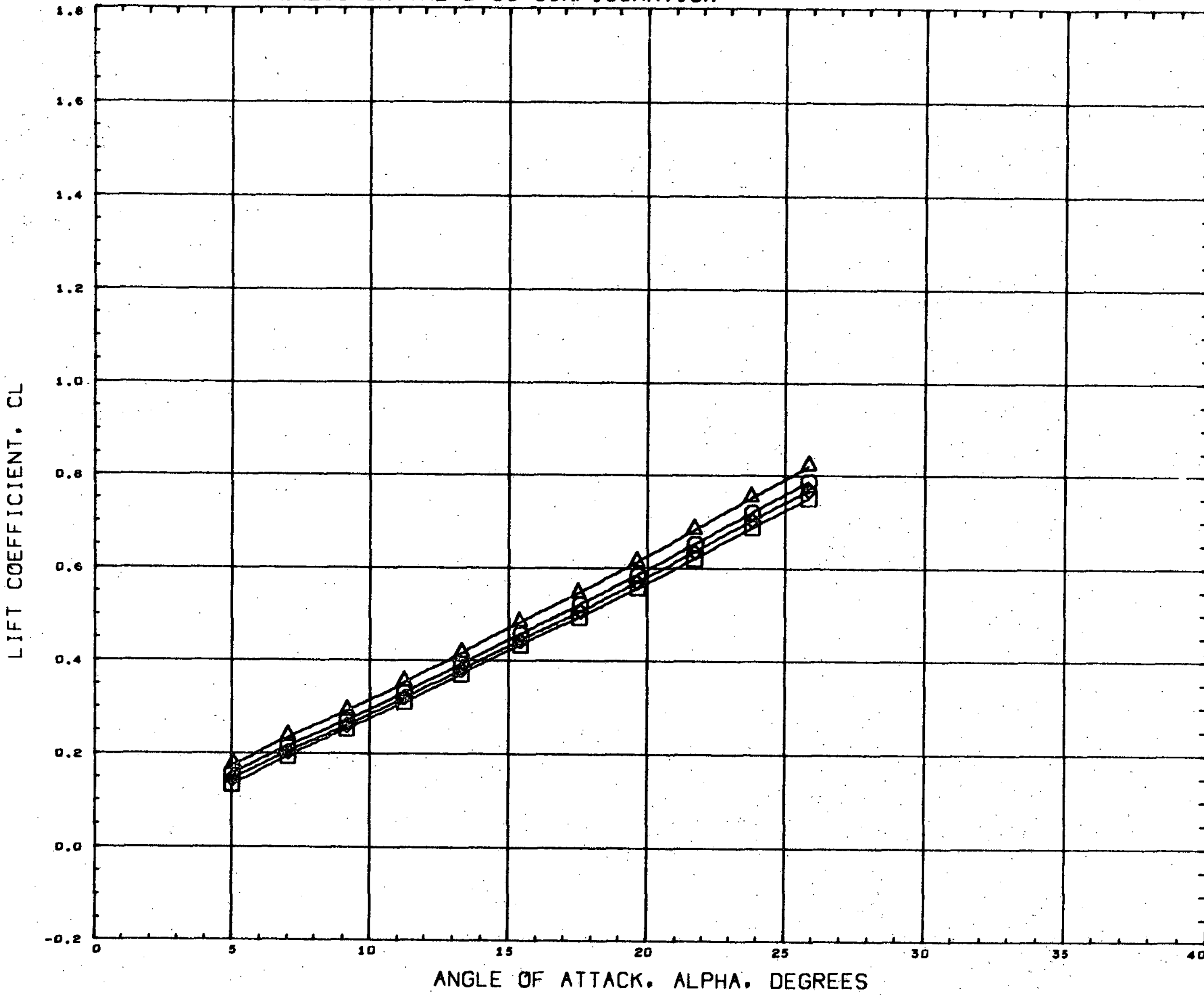
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(G35EAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=10 C=0 R=0	0.000	10.000	0.000	0.000
(H35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(H35EAC)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=-10 C=0 R=0	0.000	-10.000	0.000	0.000
(G35EAB)	□	MSFC TWT-493 GD/C B25W19C8V10 E=-20 C=0 R=0	0.000	-20.000	0.000	0.000

MACH 2.740

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

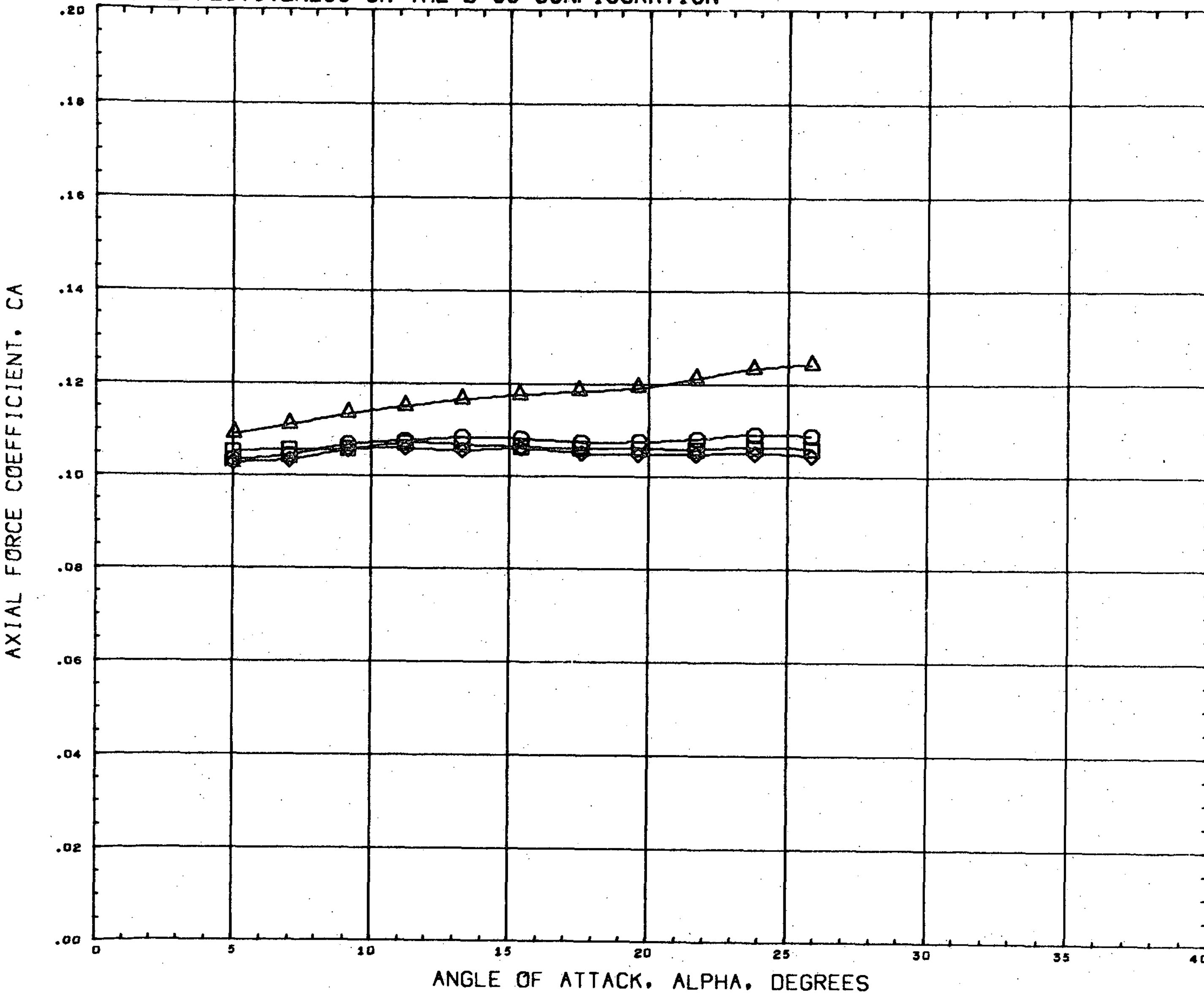


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(G35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(H35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(H35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(G35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 2.740

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

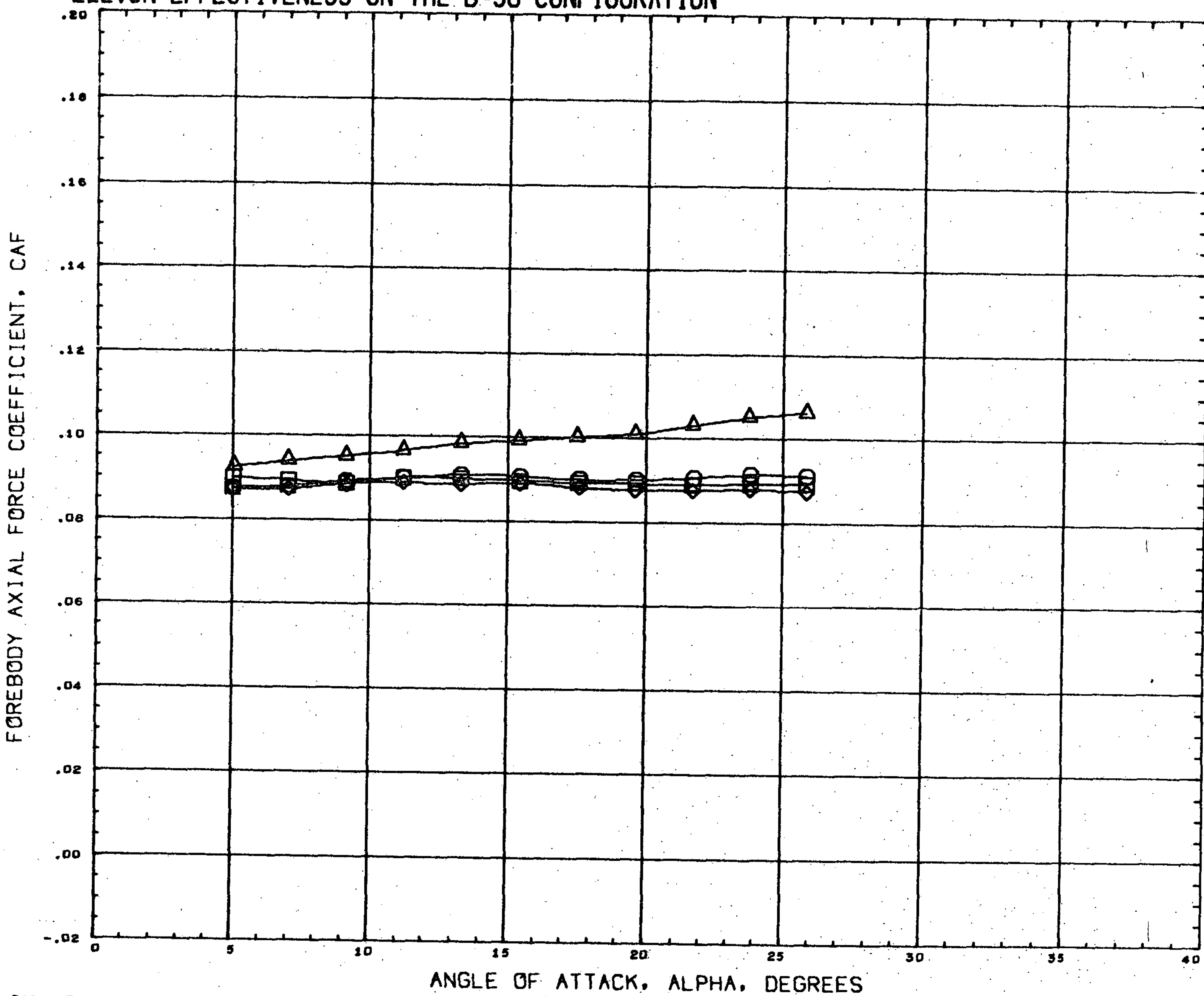


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION						BETA	ELEVON	CANARD	RUDDER
(G35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0		0.000	10.000	0.000	0.000
(H35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0		0.000	0.000	0.000	0.000
(H35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0		0.000	-10.000	0.000	0.000
(G35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0		0.000	-20.000	0.000	0.000

MACH 2.740

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



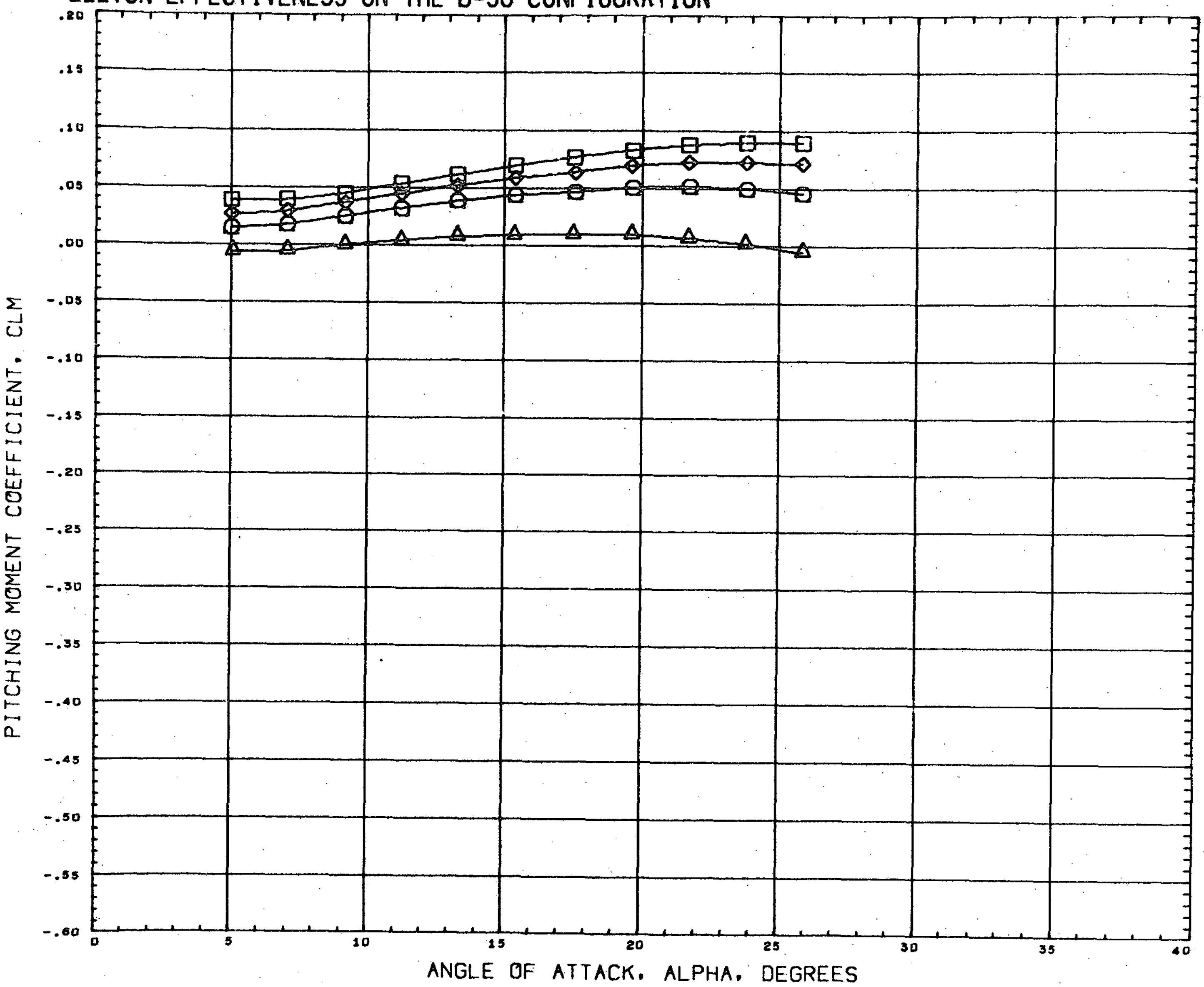
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(G35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(H35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(H35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(G35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 2.740

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

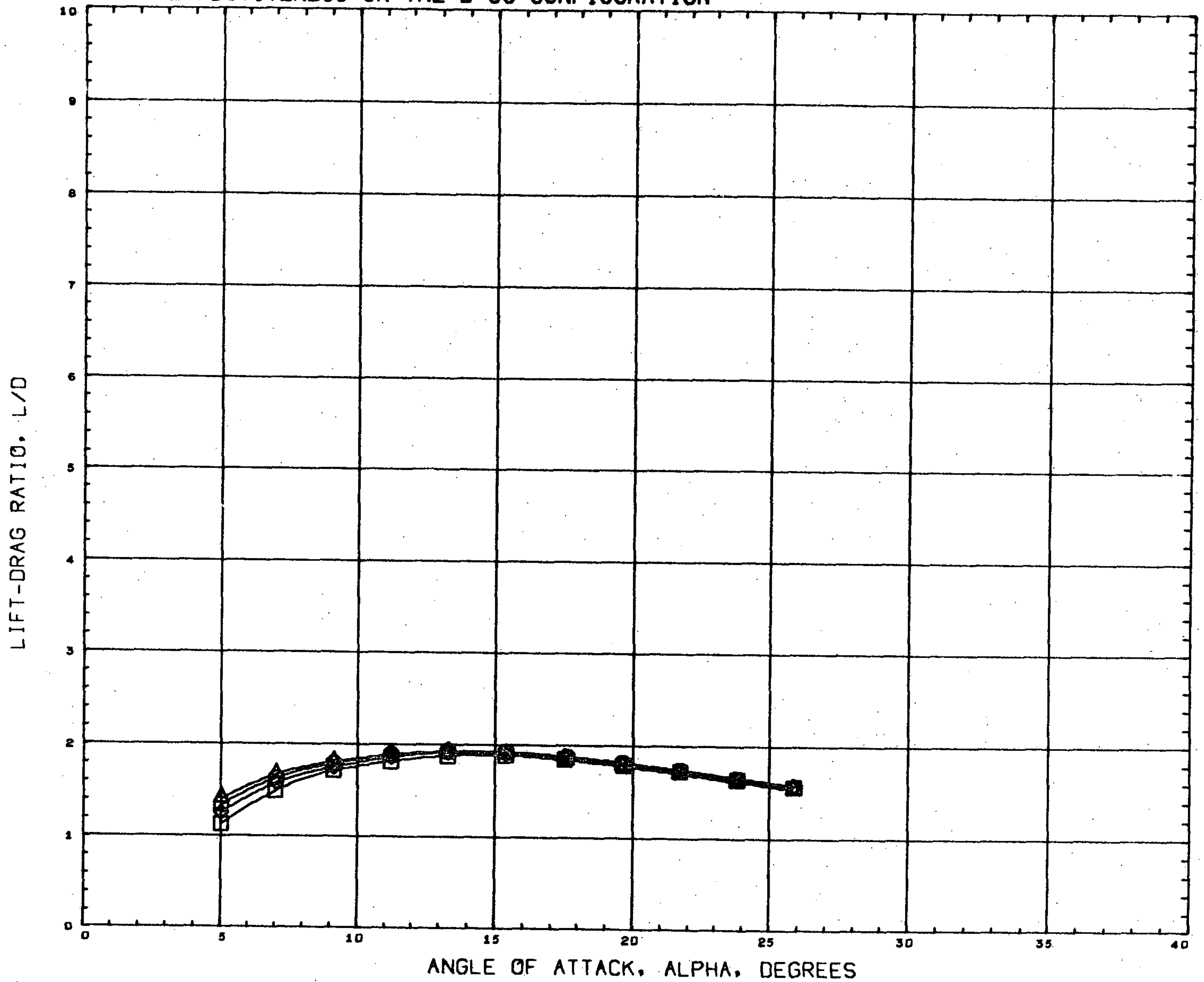


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(G35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(H35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(H35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(G35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 2.740

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



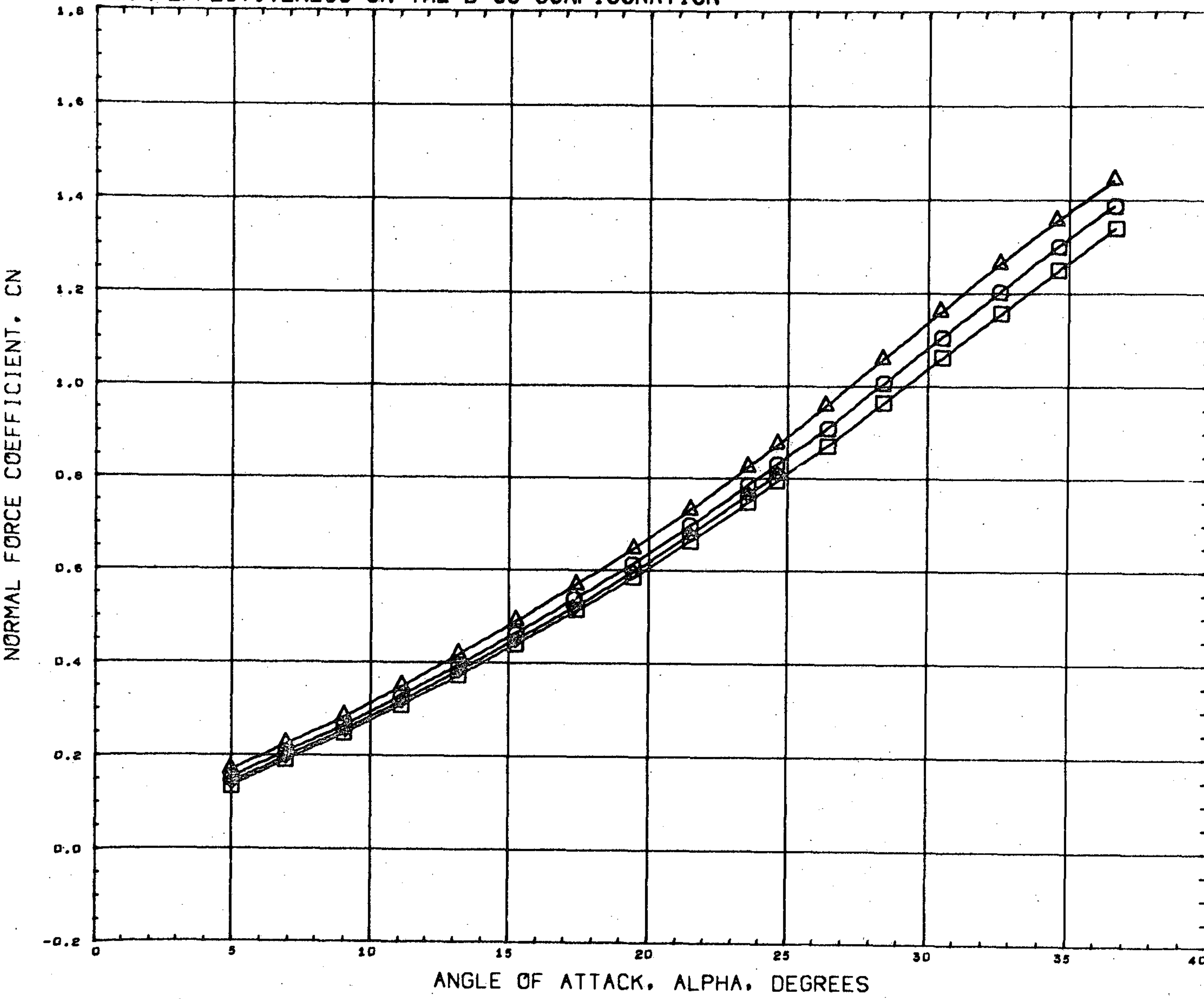
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(G35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(H35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(H35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(G35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 2.740

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

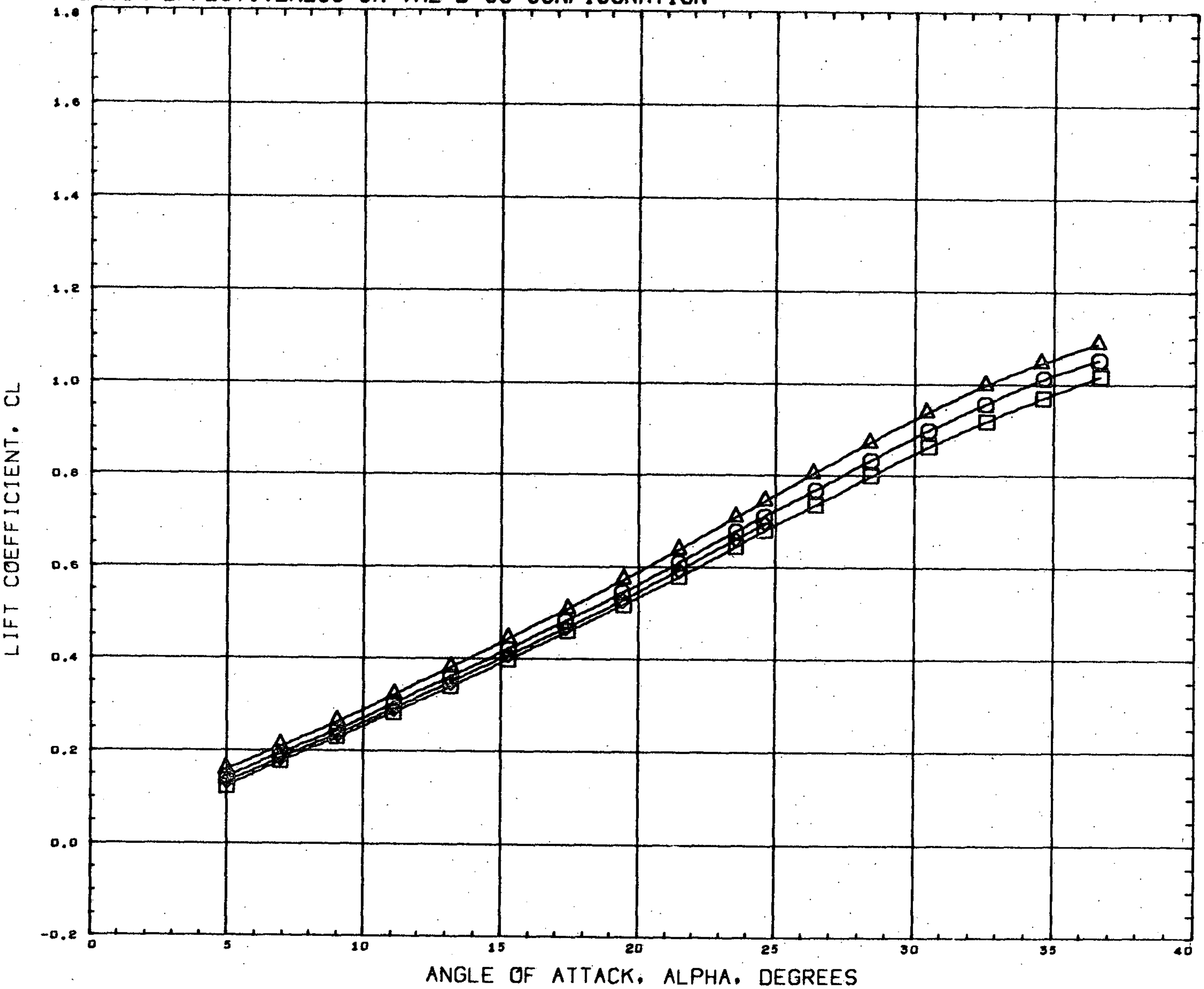


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(D35ECC)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35ECB)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(G35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(D35ECD)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

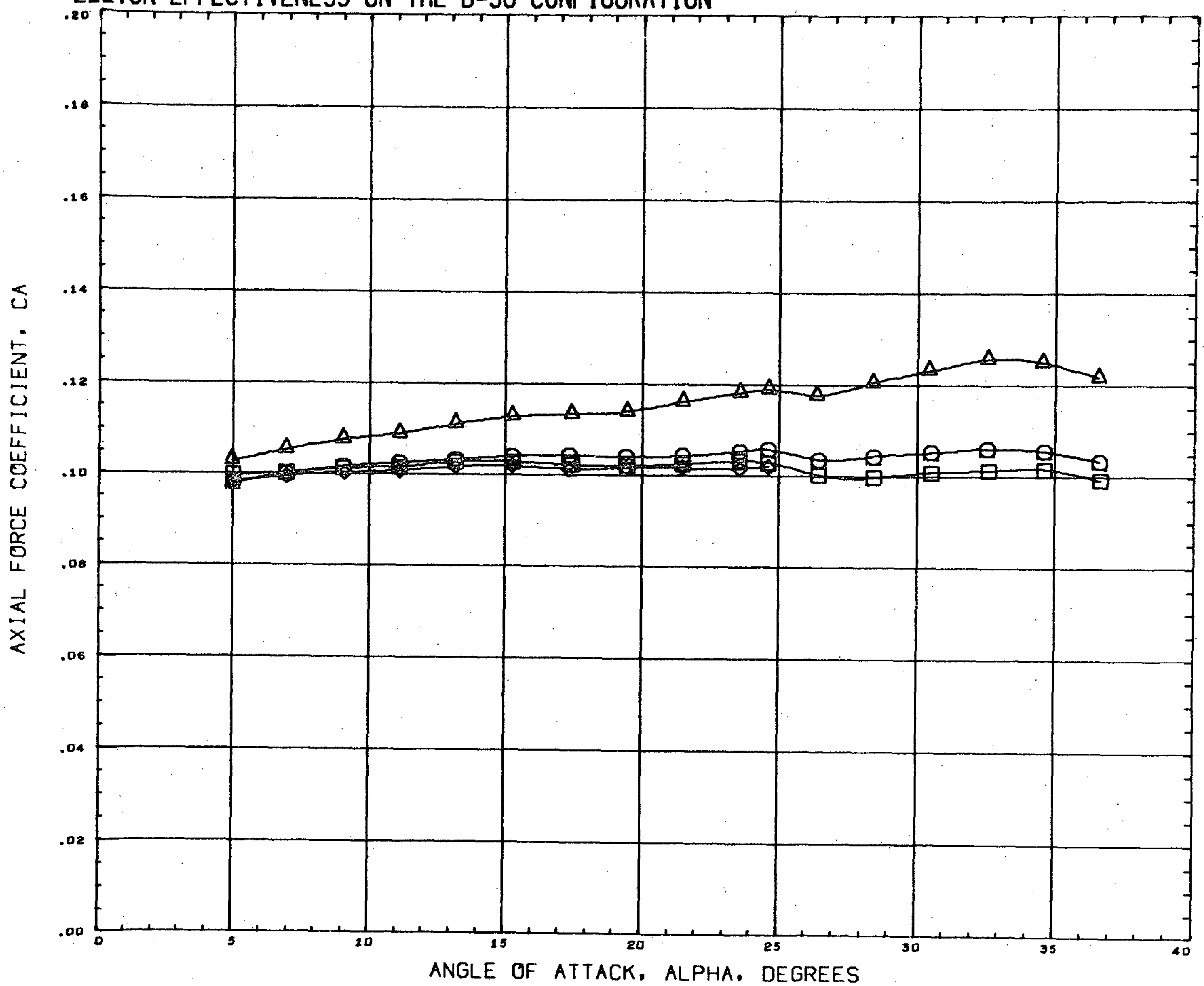


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION						BETA	ELEVON	CANARD	RUDDER
(D35ECC)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0		0.000	10.000	0.000	0.000
(E35ECB)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0		0.000	0.000	0.000	0.000
(G35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0		0.000	-10.000	0.000	0.000
(D35ECD)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0		0.000	-20.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



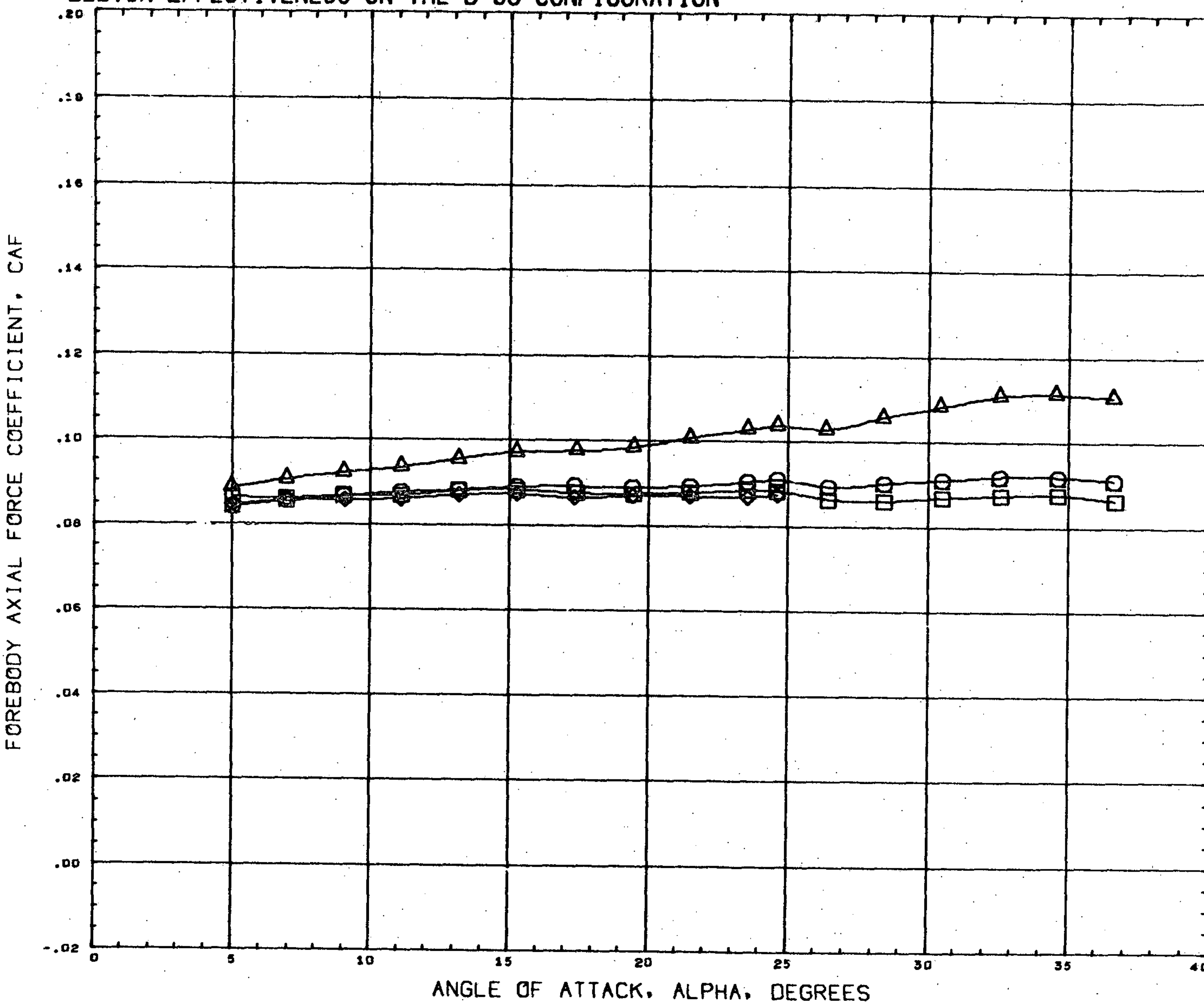
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION						BETA	ELEVON	CANARD	RUDDER
(D35ECC)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0		0.000	10.000	0.000	0.000
(E35ECB)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0		0.000	0.000	0.000	0.000
(G35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0		0.000	-10.000	0.000	0.000
(D35ECD)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0		0.000	-20.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



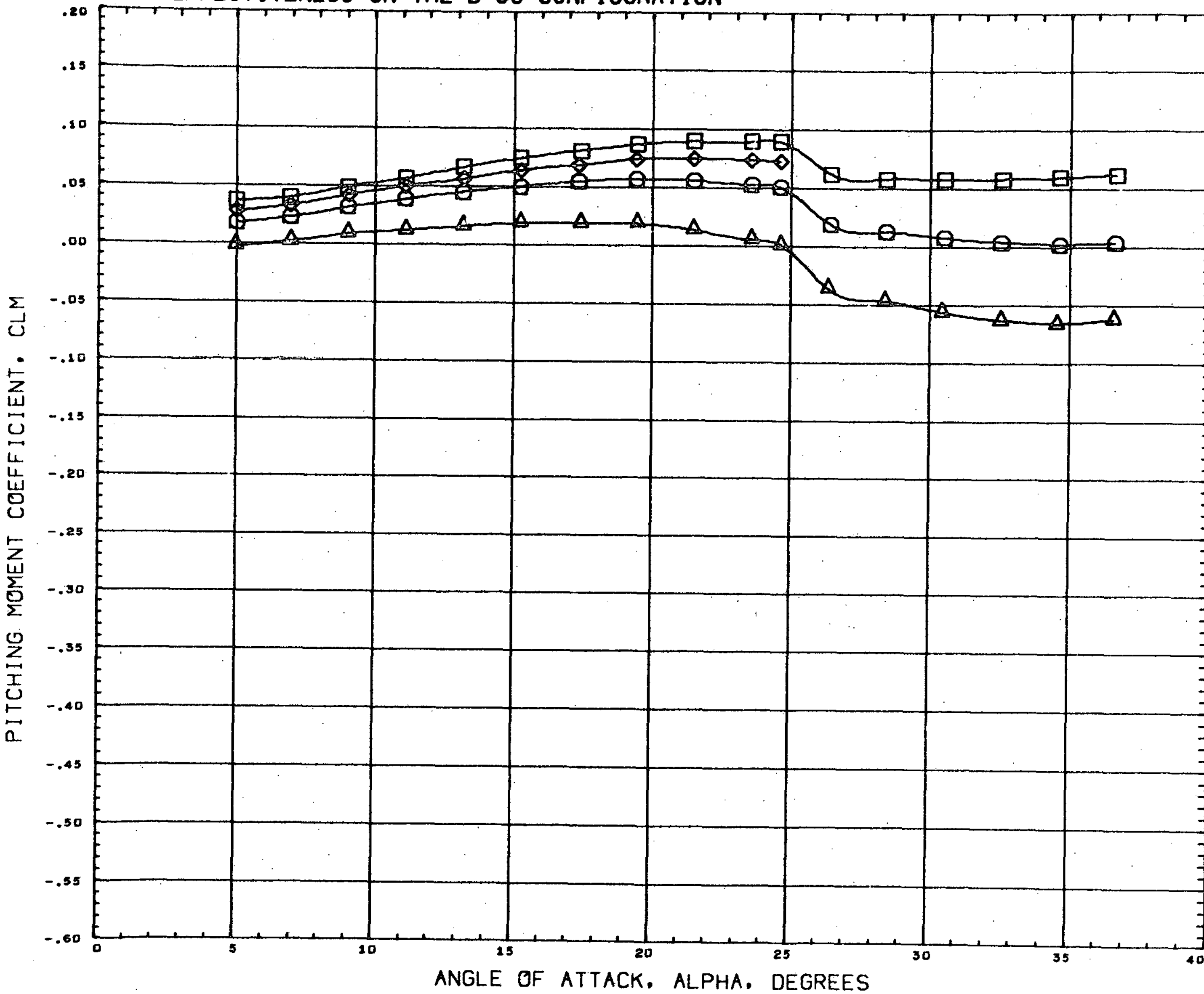
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(D35ECC)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35ECB)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(G35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(D35ECD)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



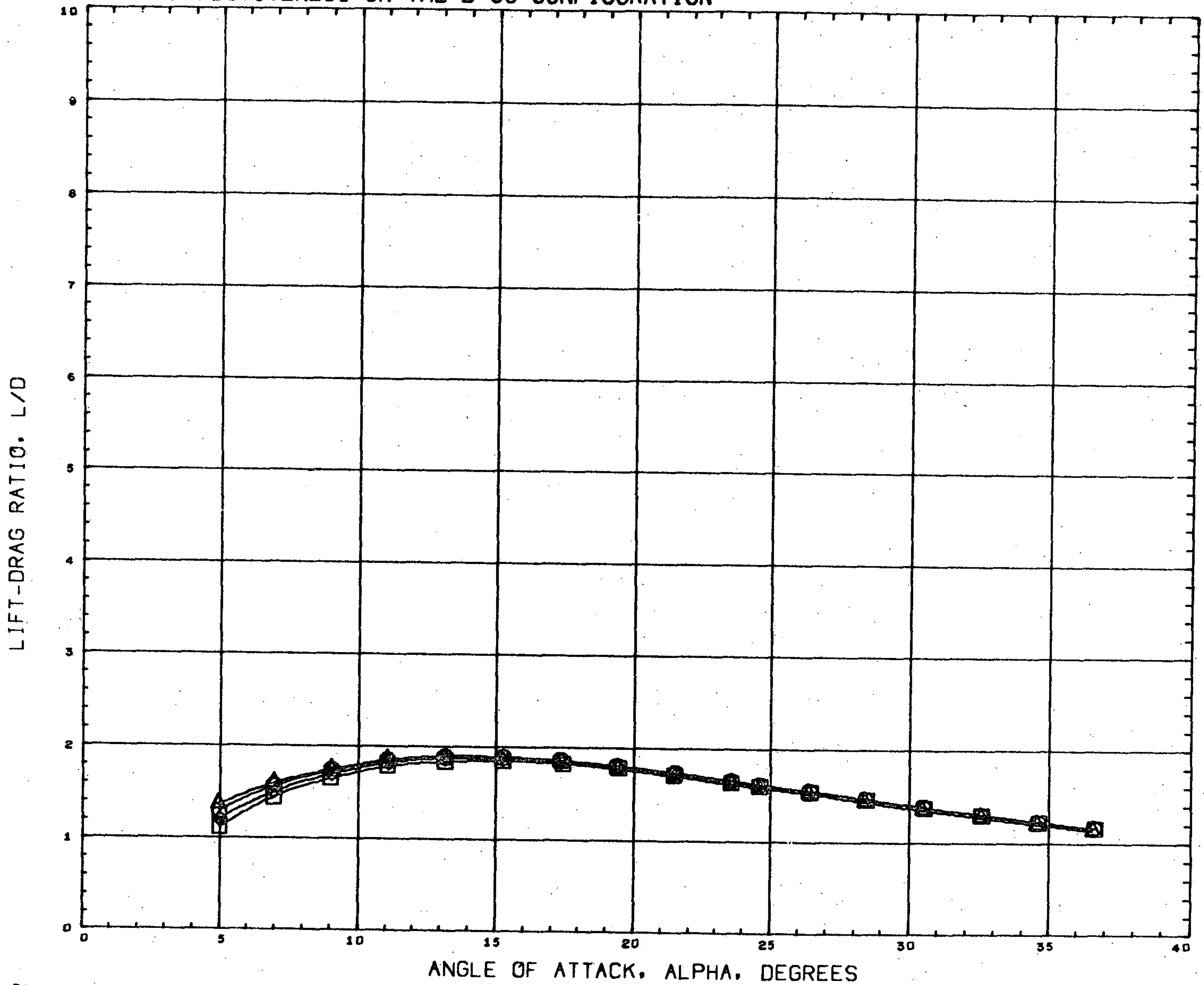
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(D35ECC)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35ECB)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(G35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(D35ECD)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



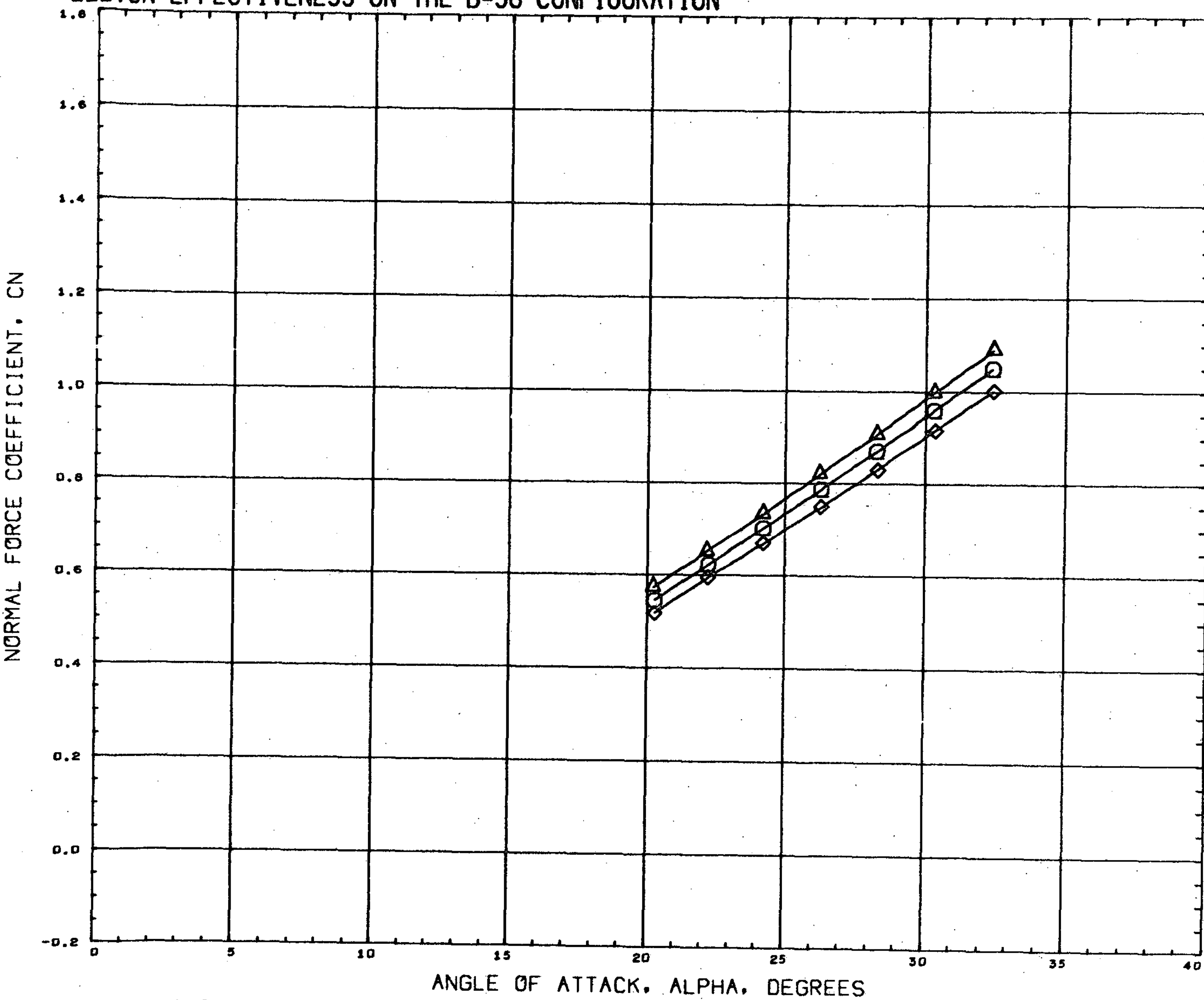
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(D35ECC)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35ECB)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(G35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(D35ECD)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



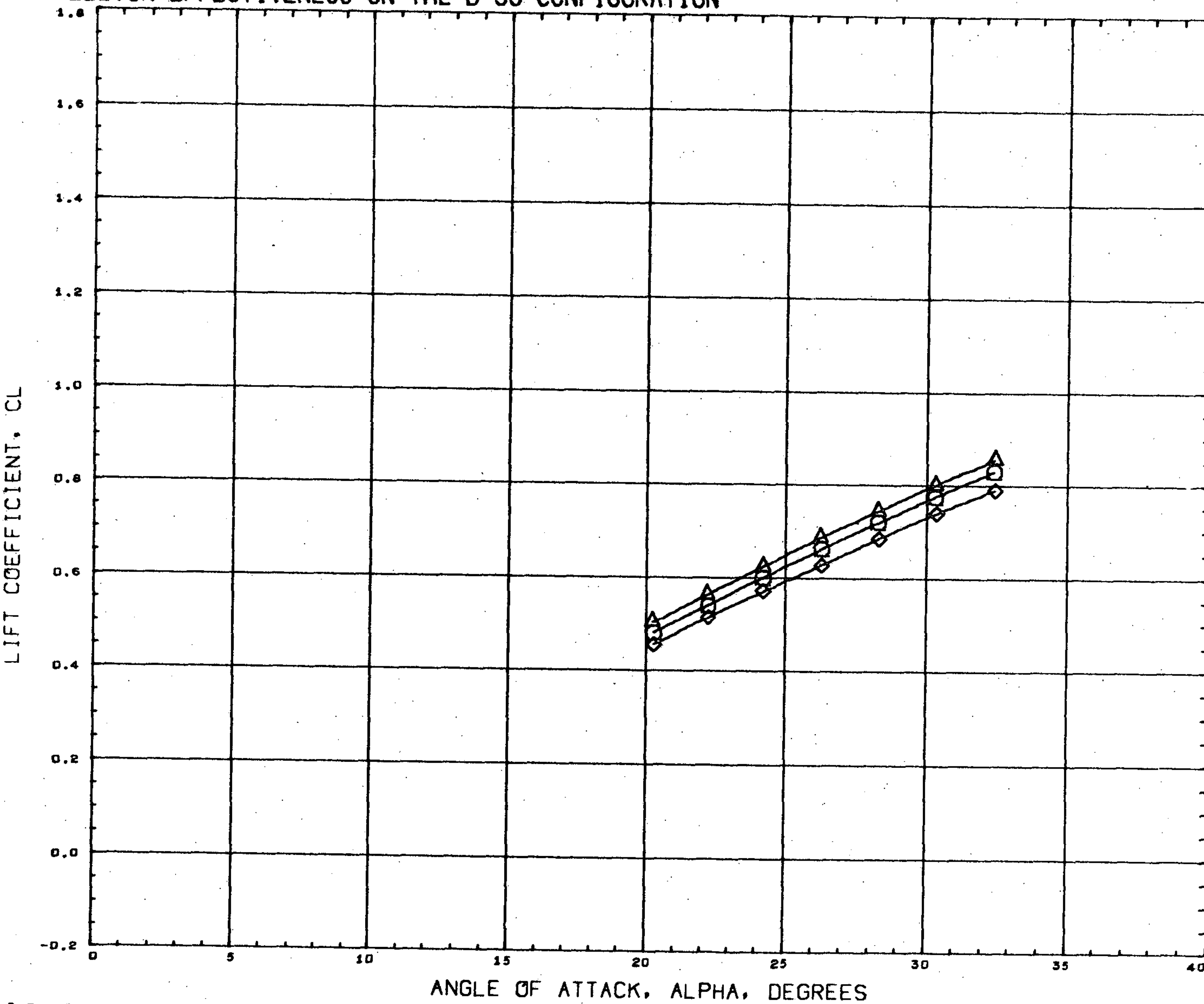
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(E35EBA)	△	MSFC TWT-493 GD/C B25W19C8	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EBO)	○	MSFC TWT-493 GD/C B25W19C6	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EBB)	◇	MSFC TWT-493 GD/C B25W19C8	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 4.450

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

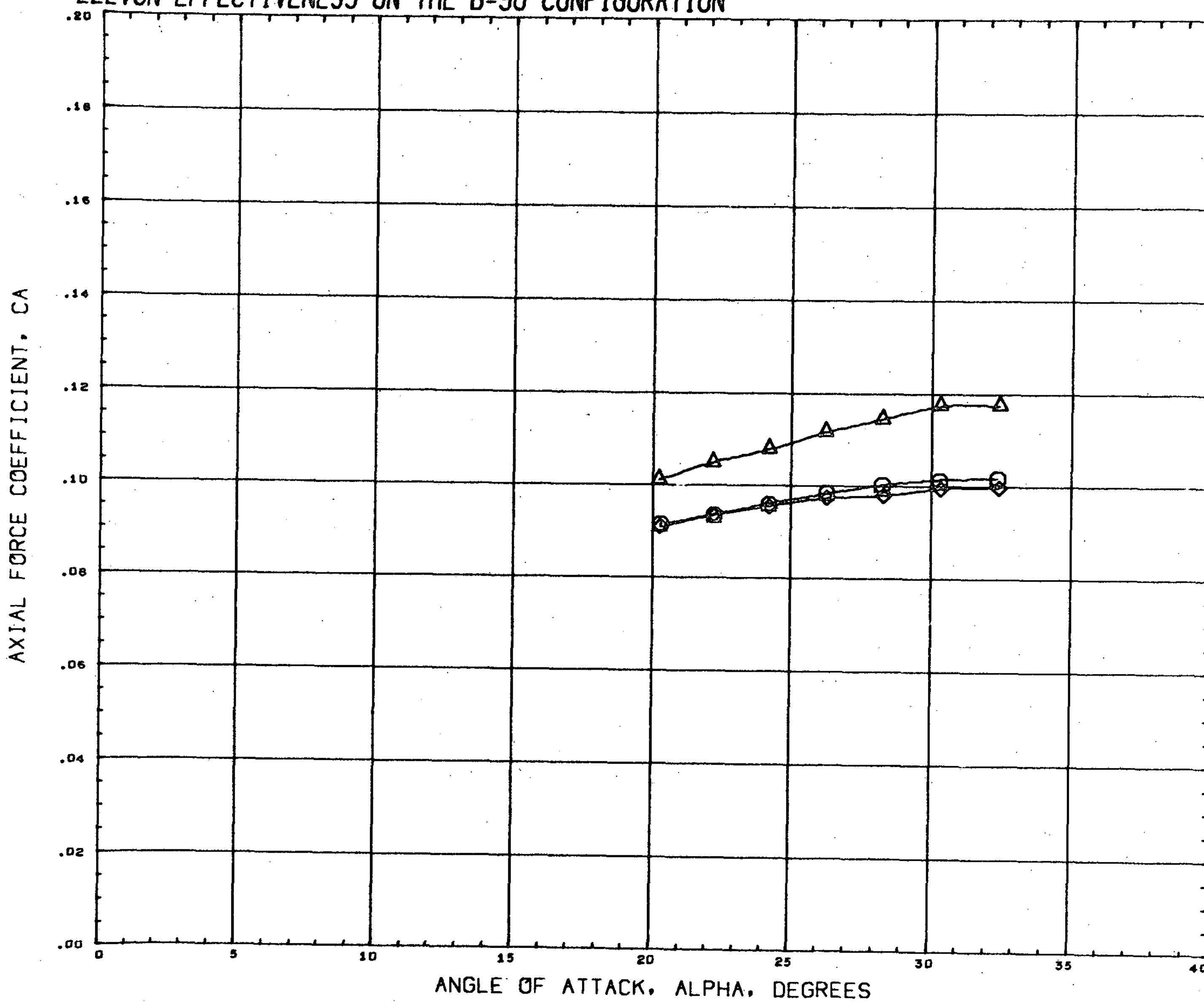


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(E35EBA)	△	MSFC TWT-493 GD/C B25W19C8	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EBO)	○	MSFC TWT-493 GD/C B25W19C8	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EBB)	◇	MSFC TWT-493 GD/C B25W19C8	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 4.450

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



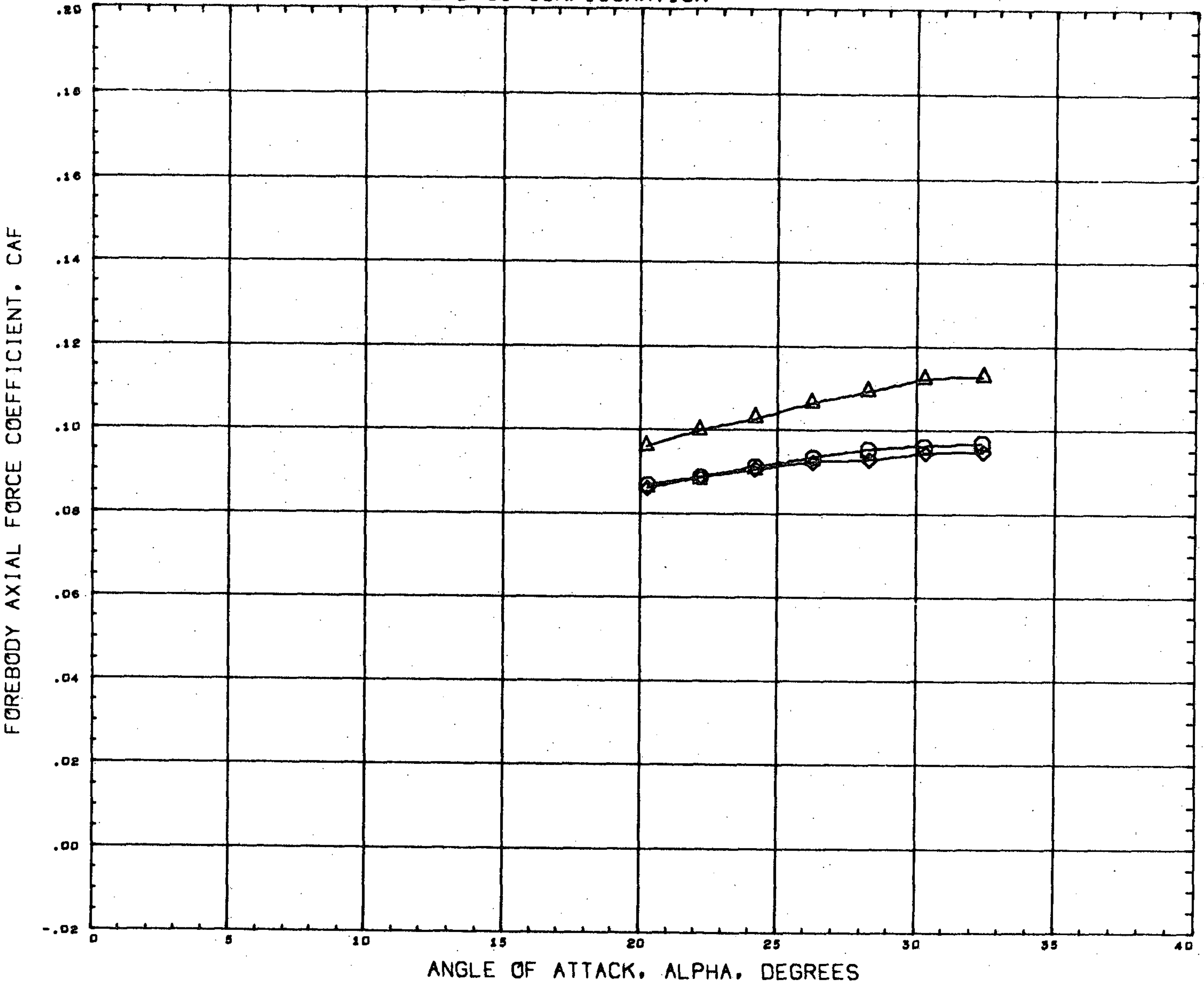
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(E35EBA)	△	MSFC TWT-493 GD/C	B25W19C8	E=10 C=0	R=0	0.000	10.000	0.000	0.000
(E35EBO)	○	MSFC TWT-493 GD/C	B25W19C8	E=0 C=0	R=0	0.000	0.000	0.000	0.000
(E35EBB)	◇	MSFC TWT-493 GD/C	B25W19C8	E=-20 C=0	R=0	0.000	-20.000	0.000	0.000

MACH 4.450

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

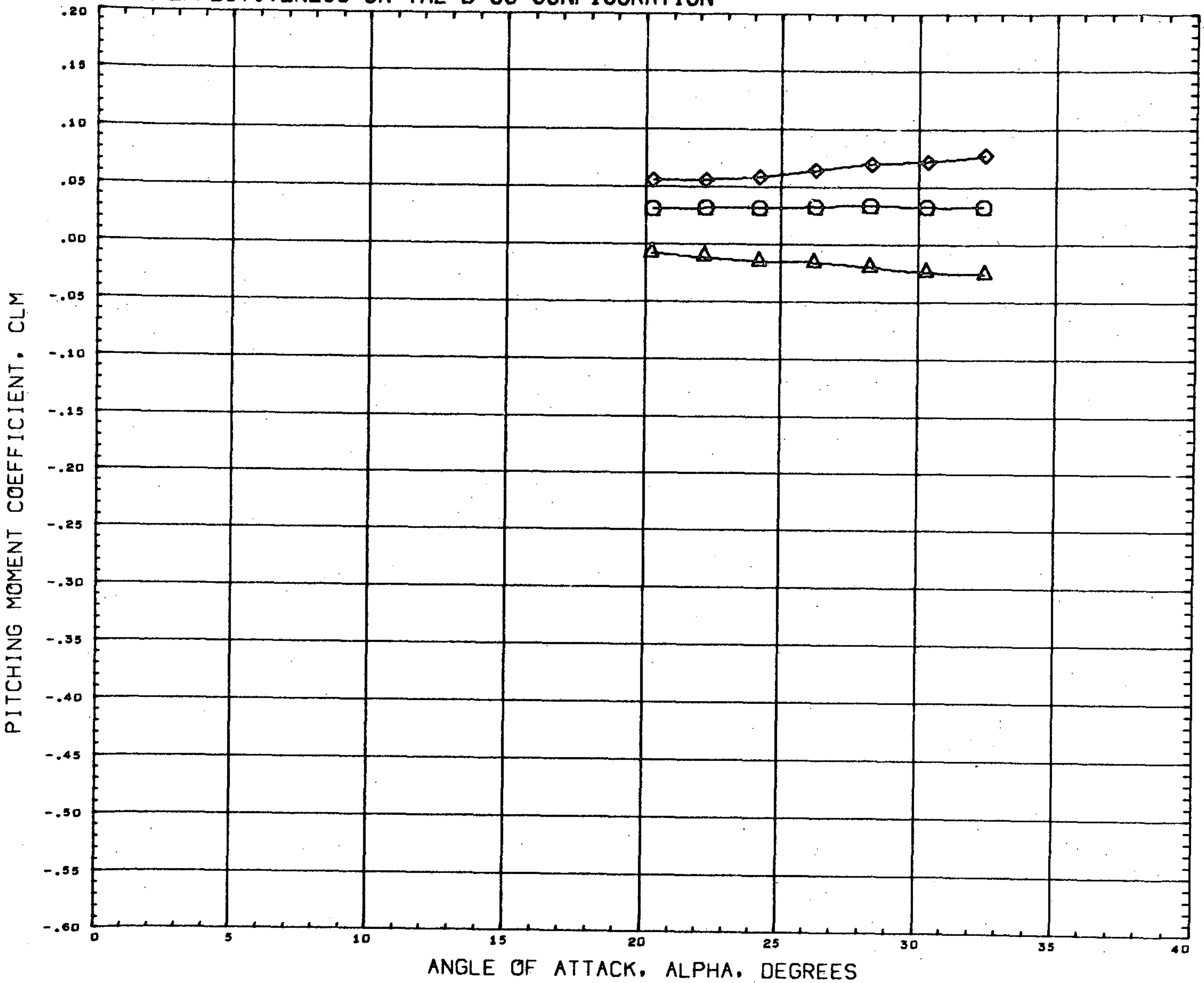


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(E35EBA)	△	MSFC TWT-493 GD/C B25W19C8	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EBO)	○	MSFC TWT-493 GD/C B25W19C8	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EBB)	◇	MSFC TWT-493 GD/C B25W19C8	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.450

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



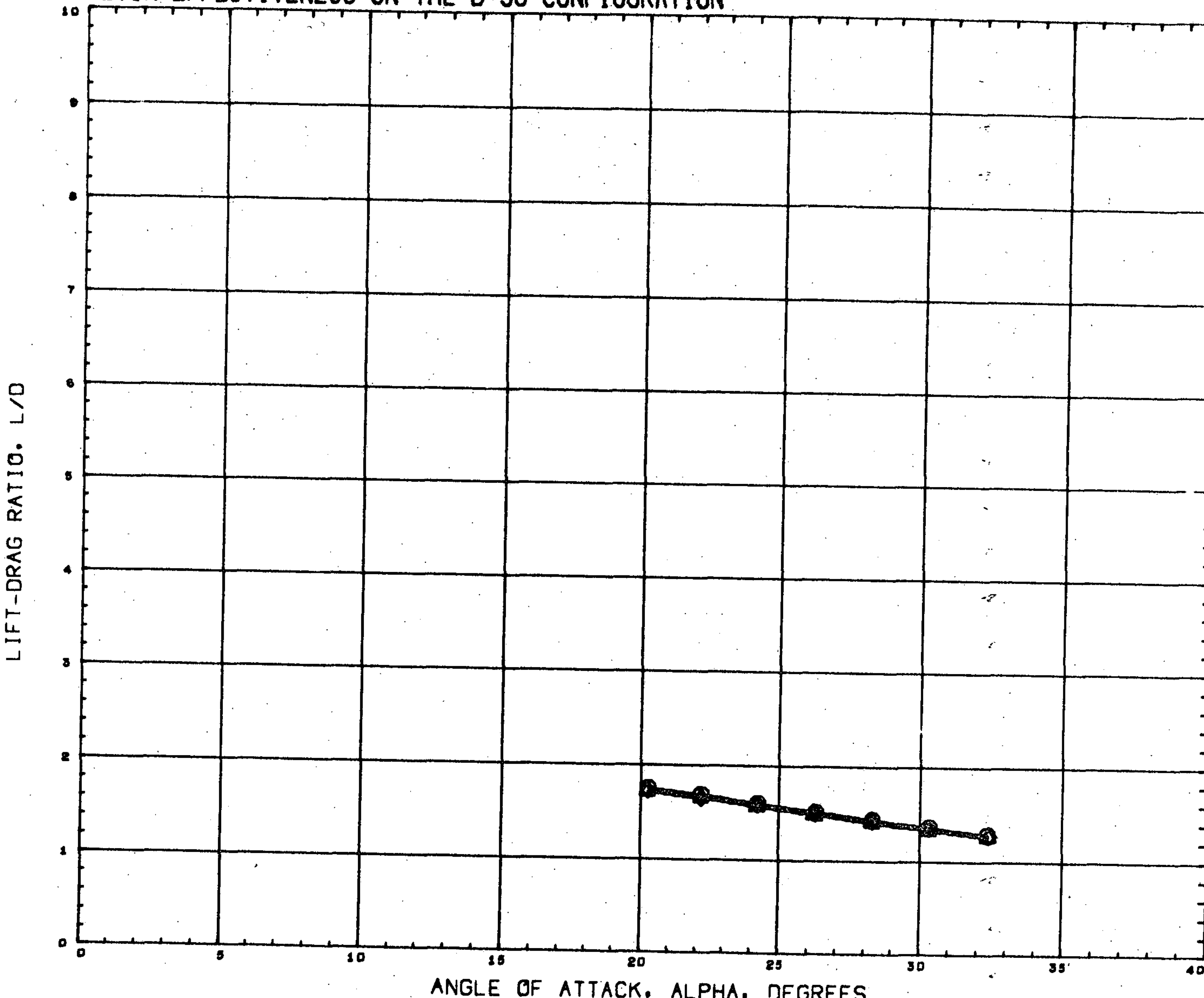
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(E35EBA)	△	MSFC TWT-493 GD/C B25W19C8	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EBO)	○	MSFC TWT-493 GD/C B25W19C8	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EBB)	◇	MSFC TWT-493 GD/C B25W19C8	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 4.450

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



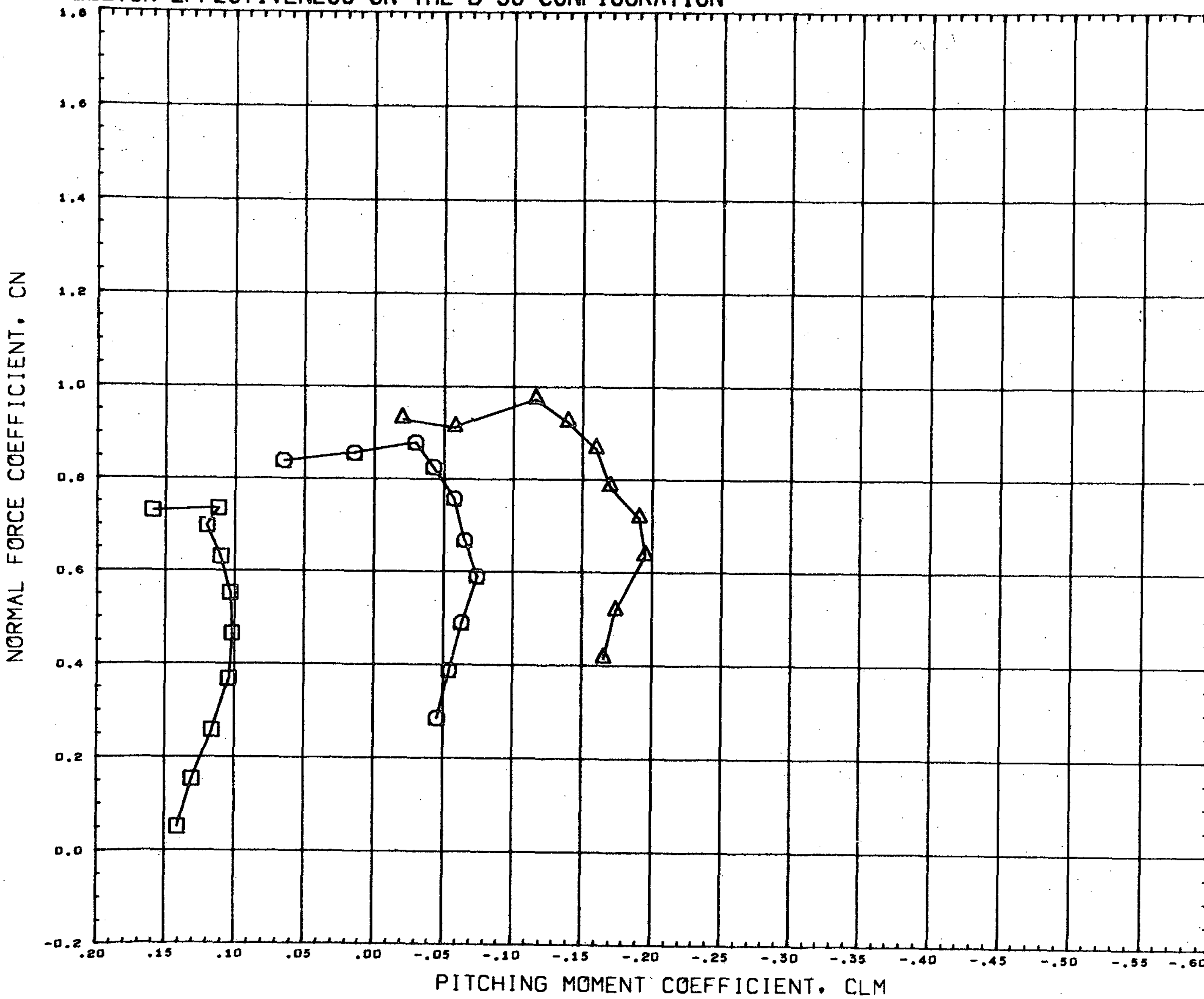
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(E35EBA)	△	MSFC TWT-493 GD/C B25W19C8	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EBO)	○	MSFC TWT-493 GD/C B25W19C8	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EBB)	◇	MSFC TWT-493 GD/C B25W19C8	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 4.450

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

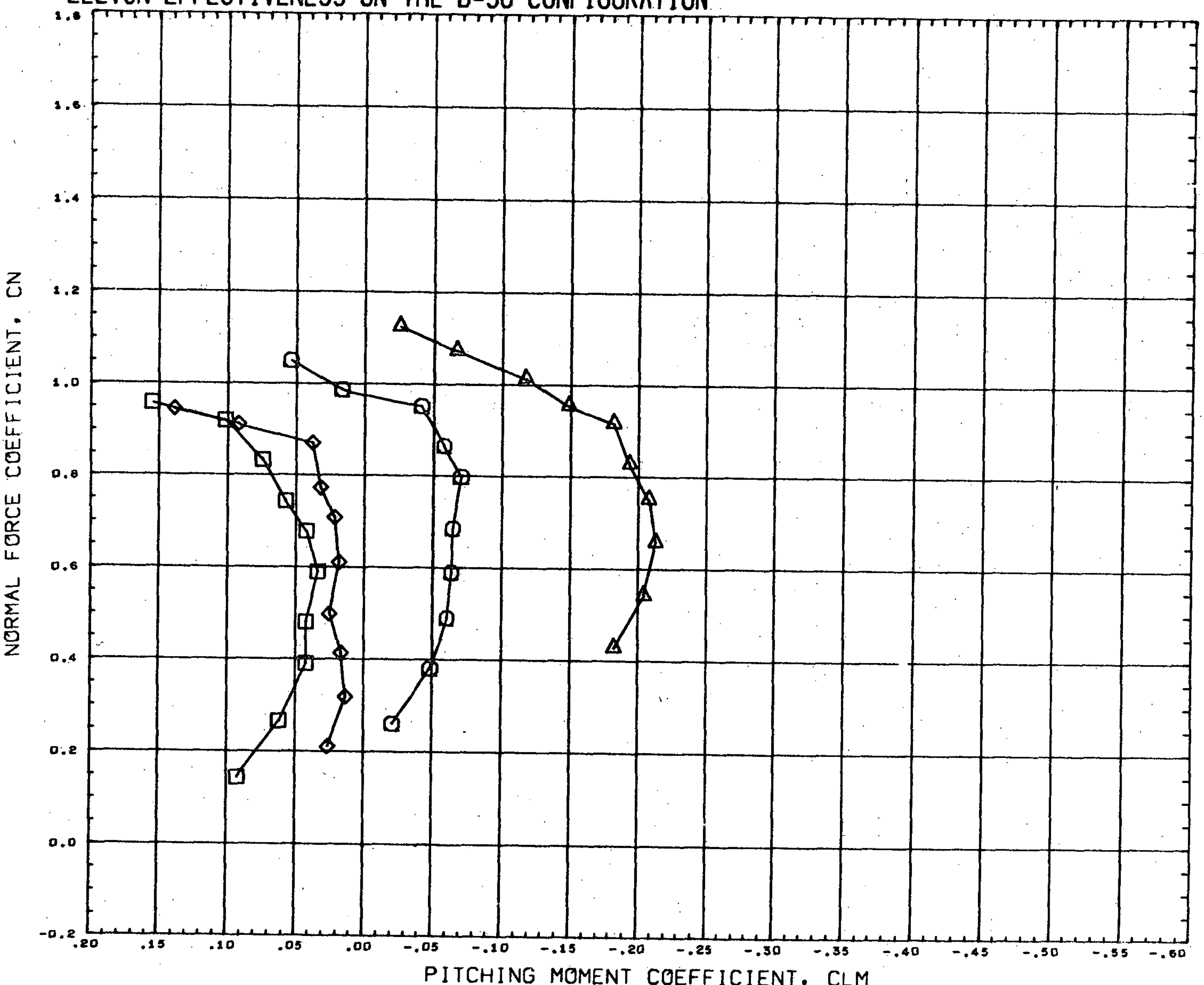


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS					0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.594

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.897

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

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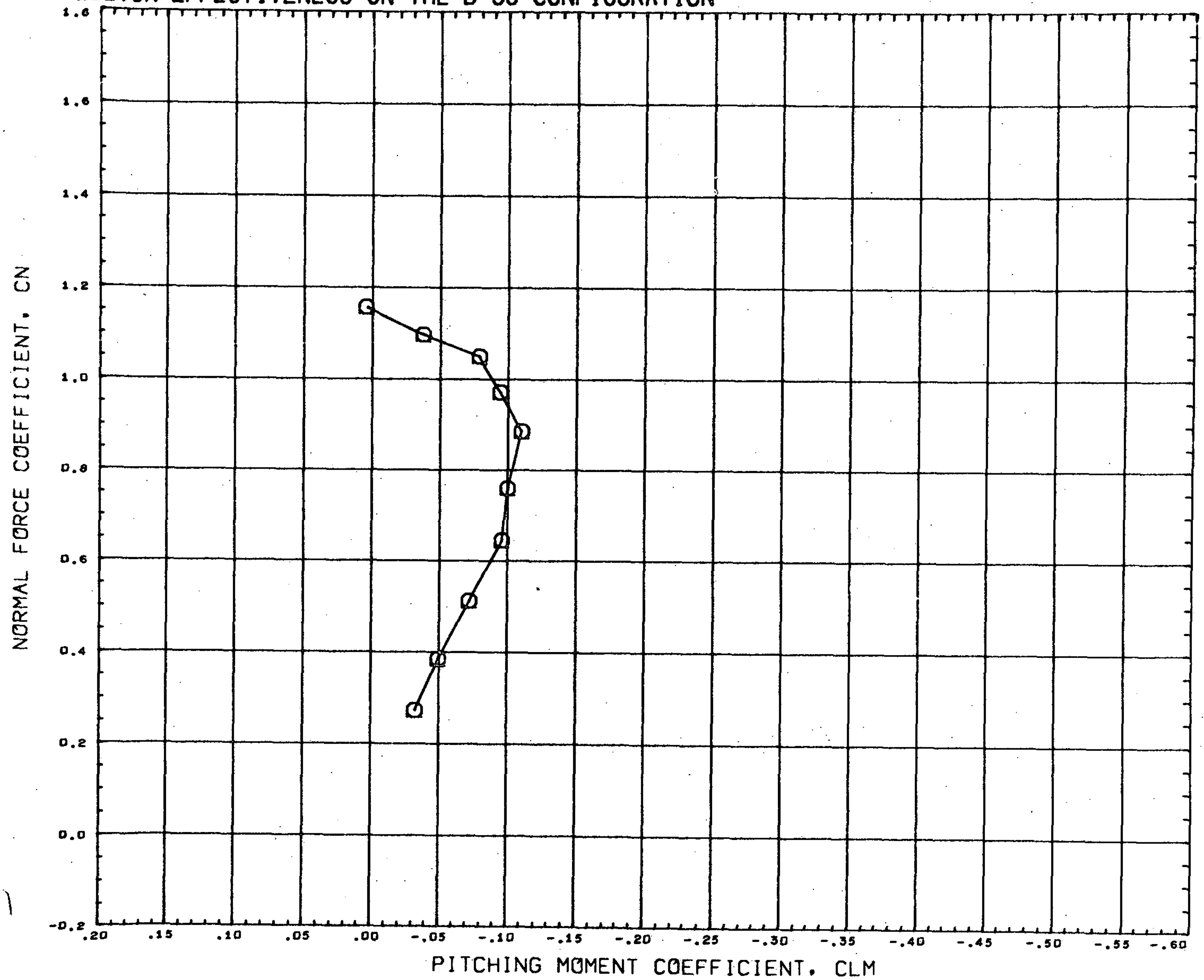
ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



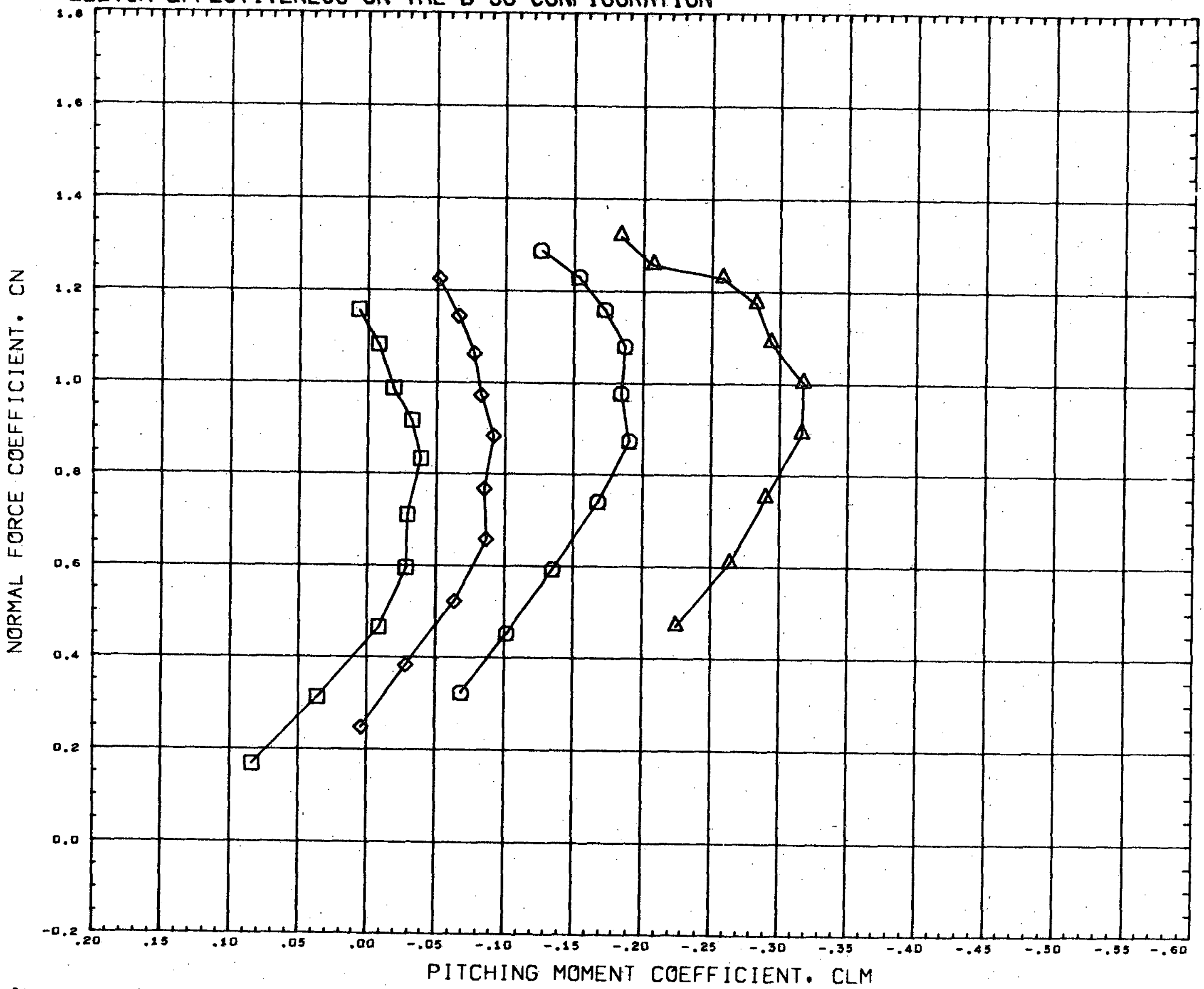
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000

MACH 0.961

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



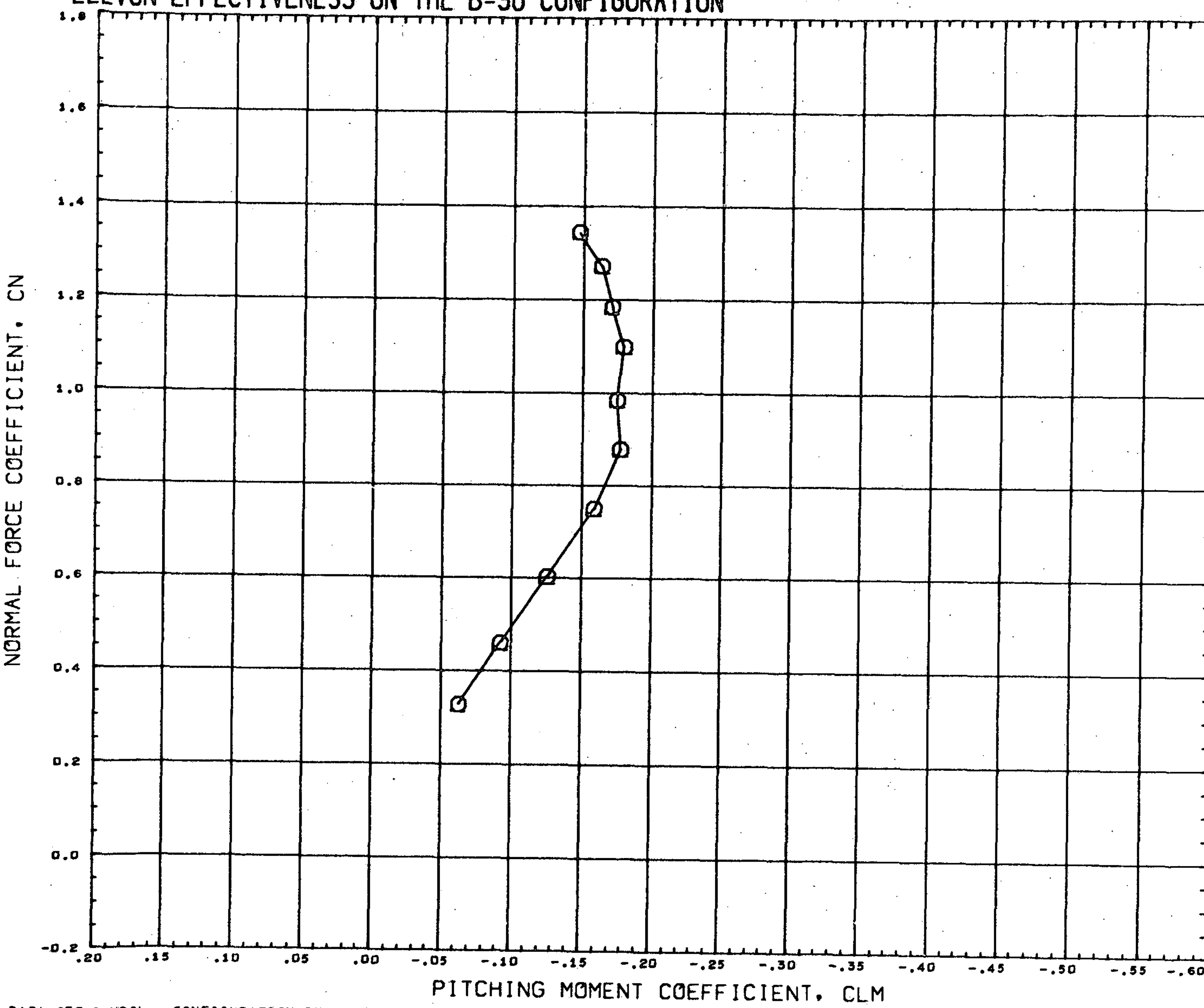
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.999

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

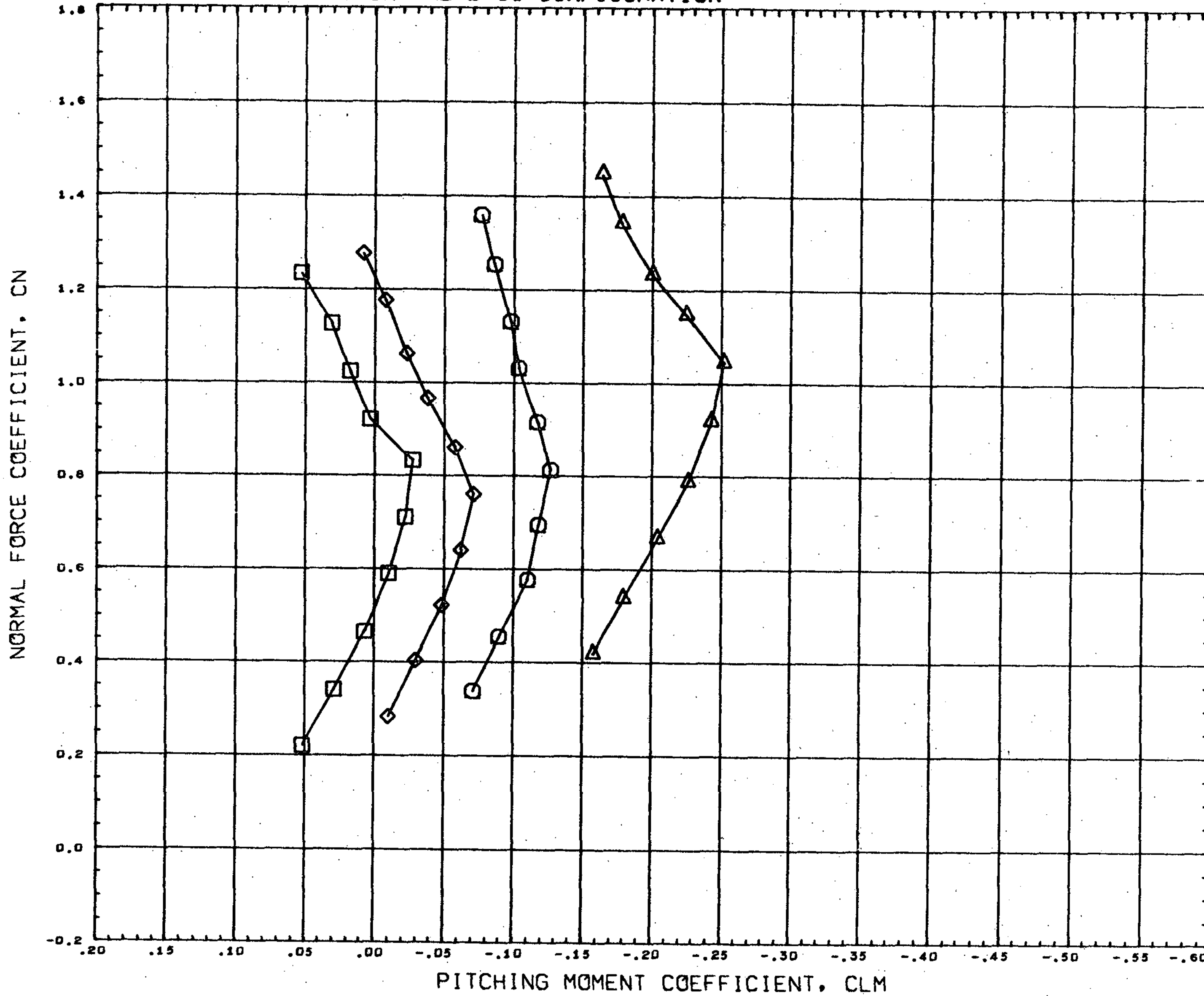


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000

MACH 1.043

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



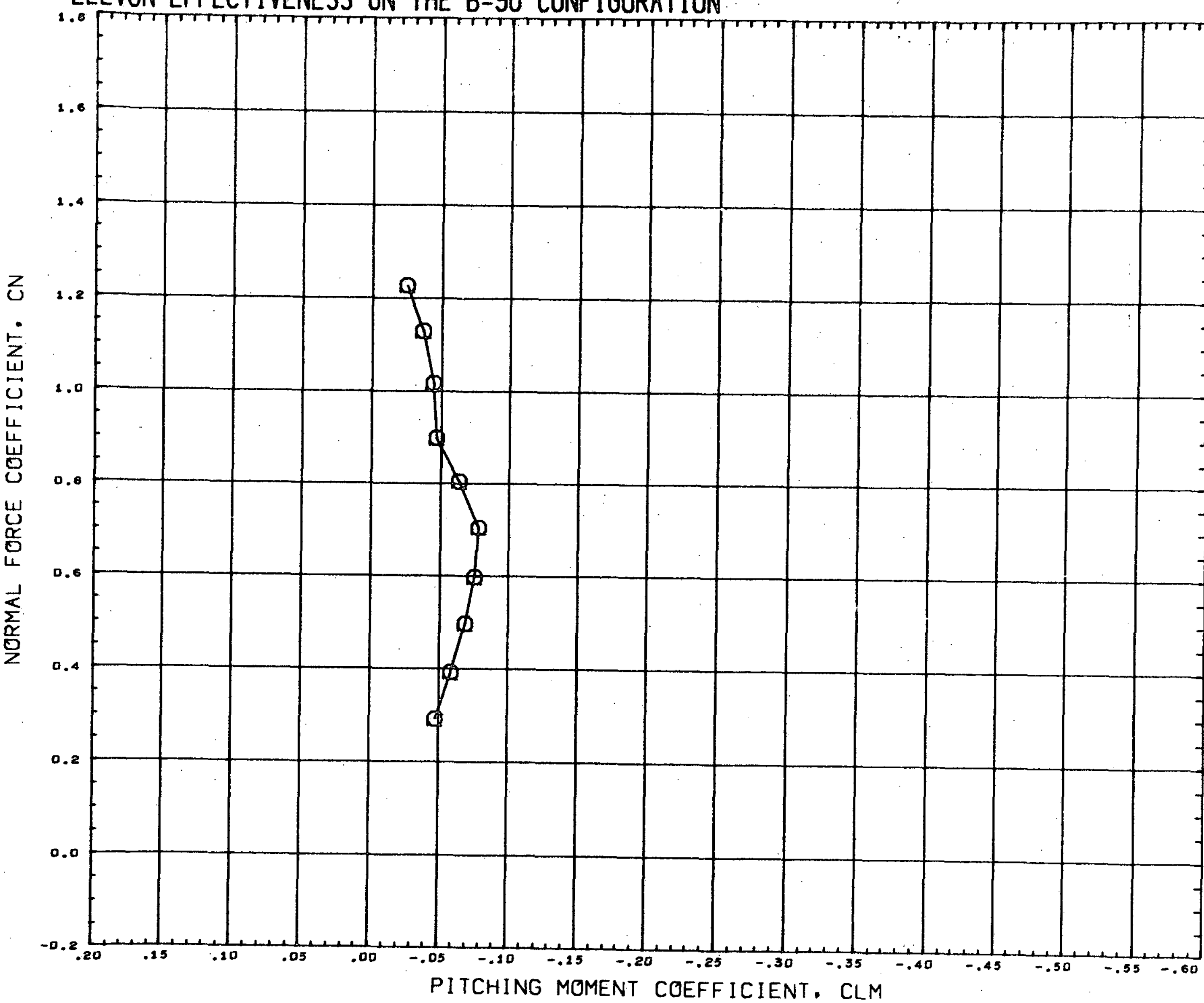
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(E35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.195

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



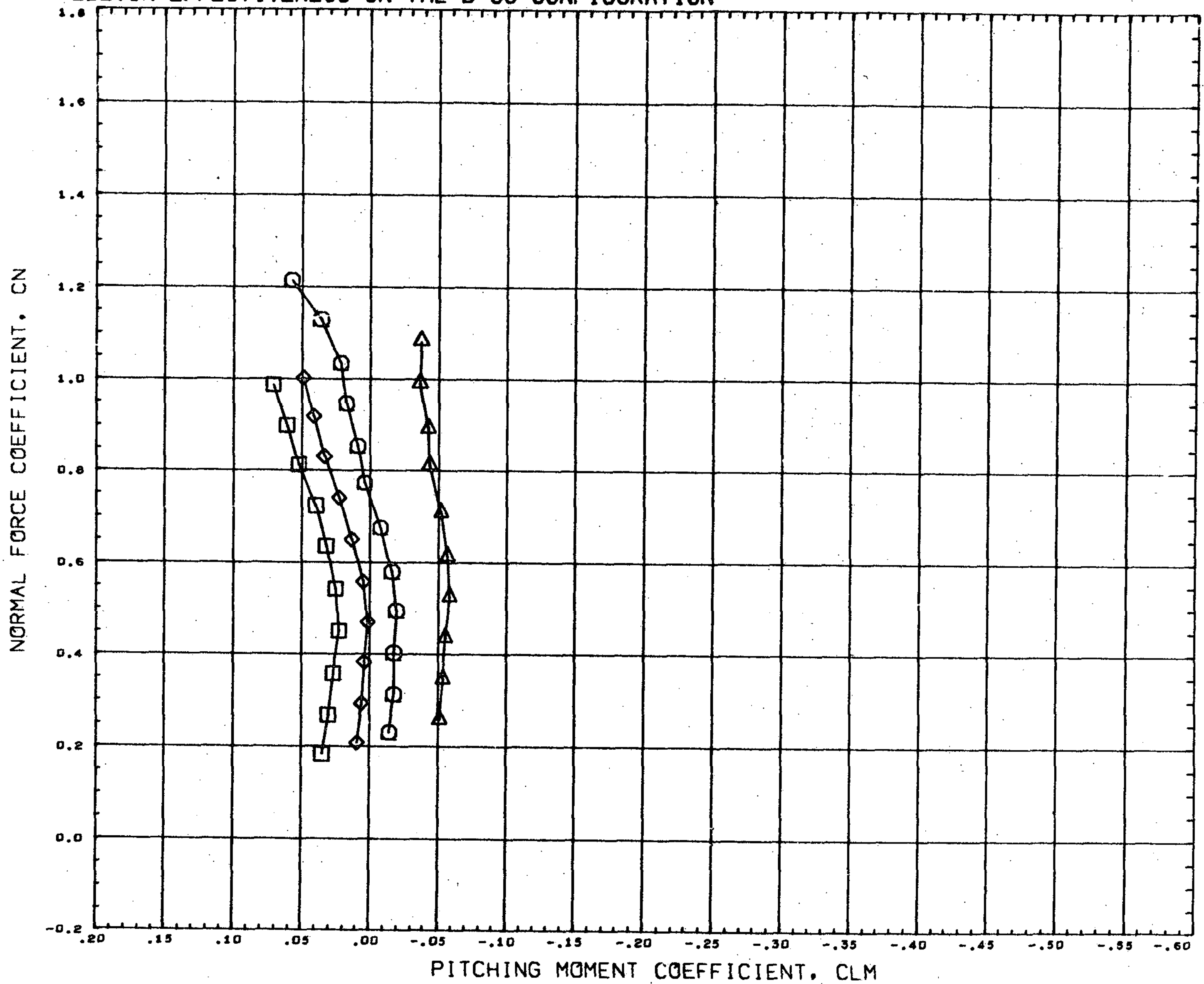
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35EAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000
(E35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35EAC)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-10.000	0.000	0.000
(E35EAB)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000

MACH 1.453

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

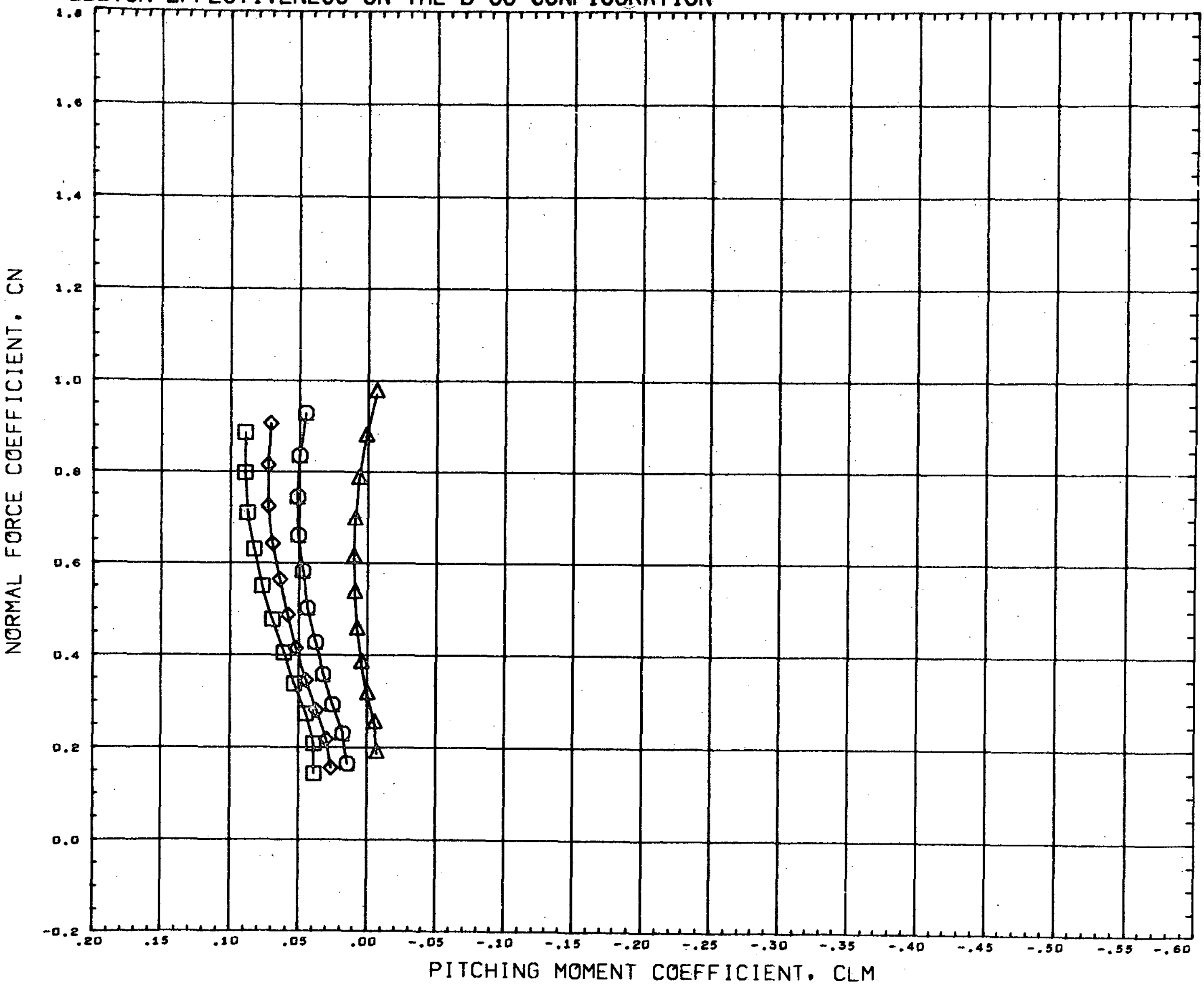


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION						BETA	ELEVON	CANARD	RUDDER
(F35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0		0.000	10.000	0.000	0.000
(E35ECA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0		0.000	0.000	0.000	0.000
(F35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0		0.000	-10.000	0.000	0.000
(F35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0		0.000	-20.000	0.000	0.000

MACH 1.955

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



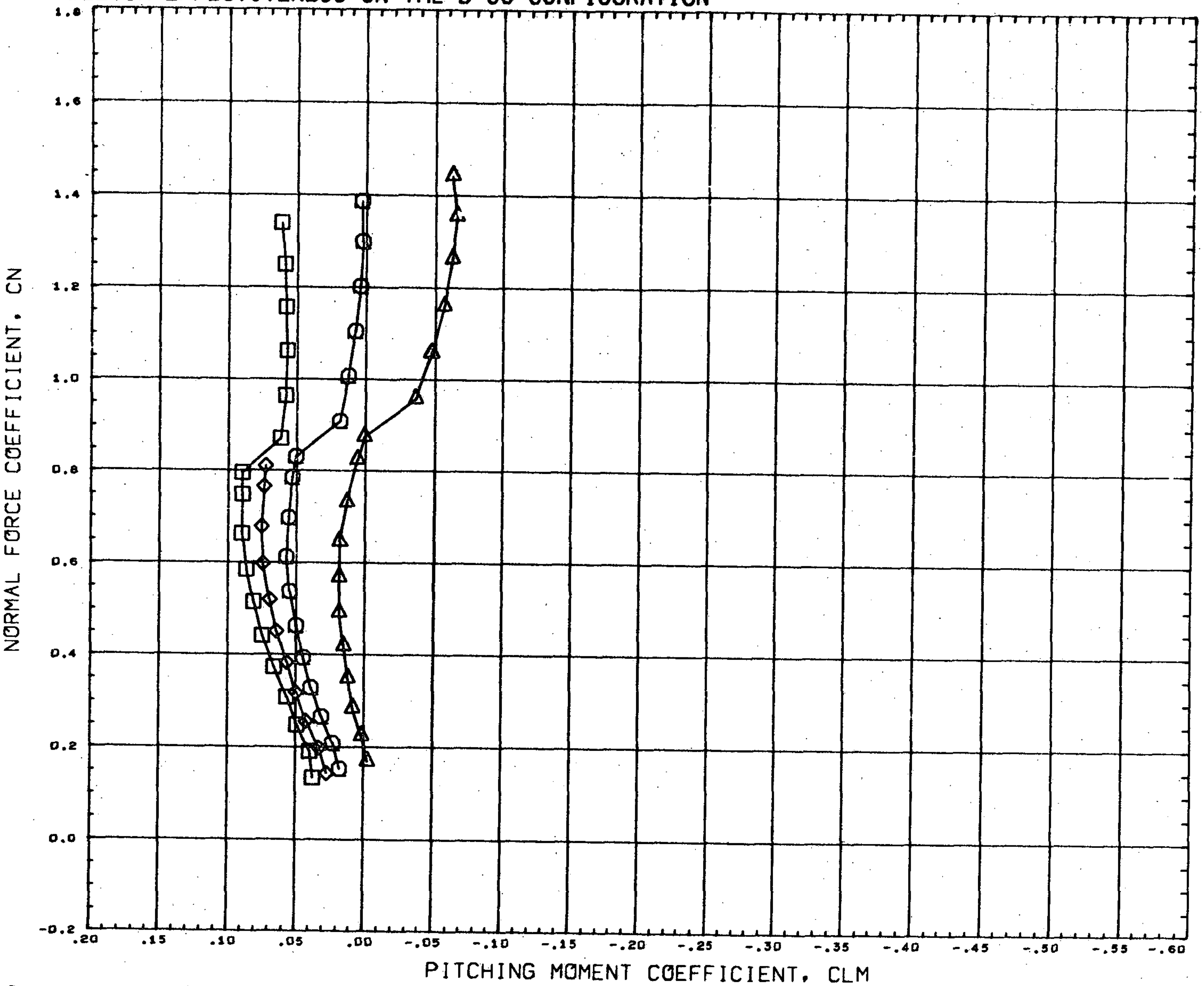
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(G35EAA)	△	MSFC TWT-493 GD/C	B25W19C8V1D	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(H35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V1D	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(H35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V1D	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(G35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V1D	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 2.740

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION

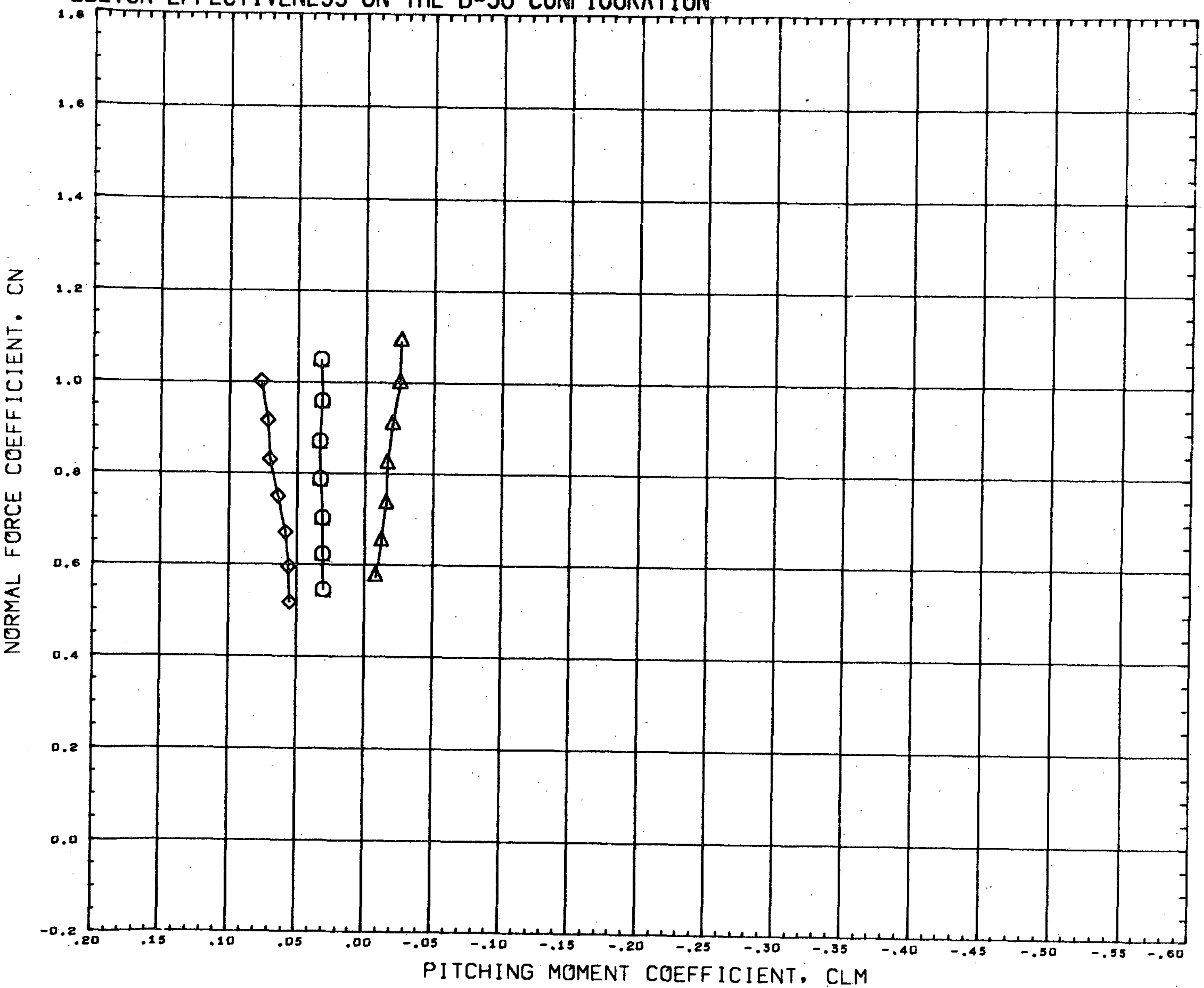


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(D35ECC)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35ECB)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(G35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-10	C=0	R=0	0.000	-10.000	0.000	0.000
(D35ECD)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ELEVON EFFECTIVENESS ON THE B-9U CONFIGURATION



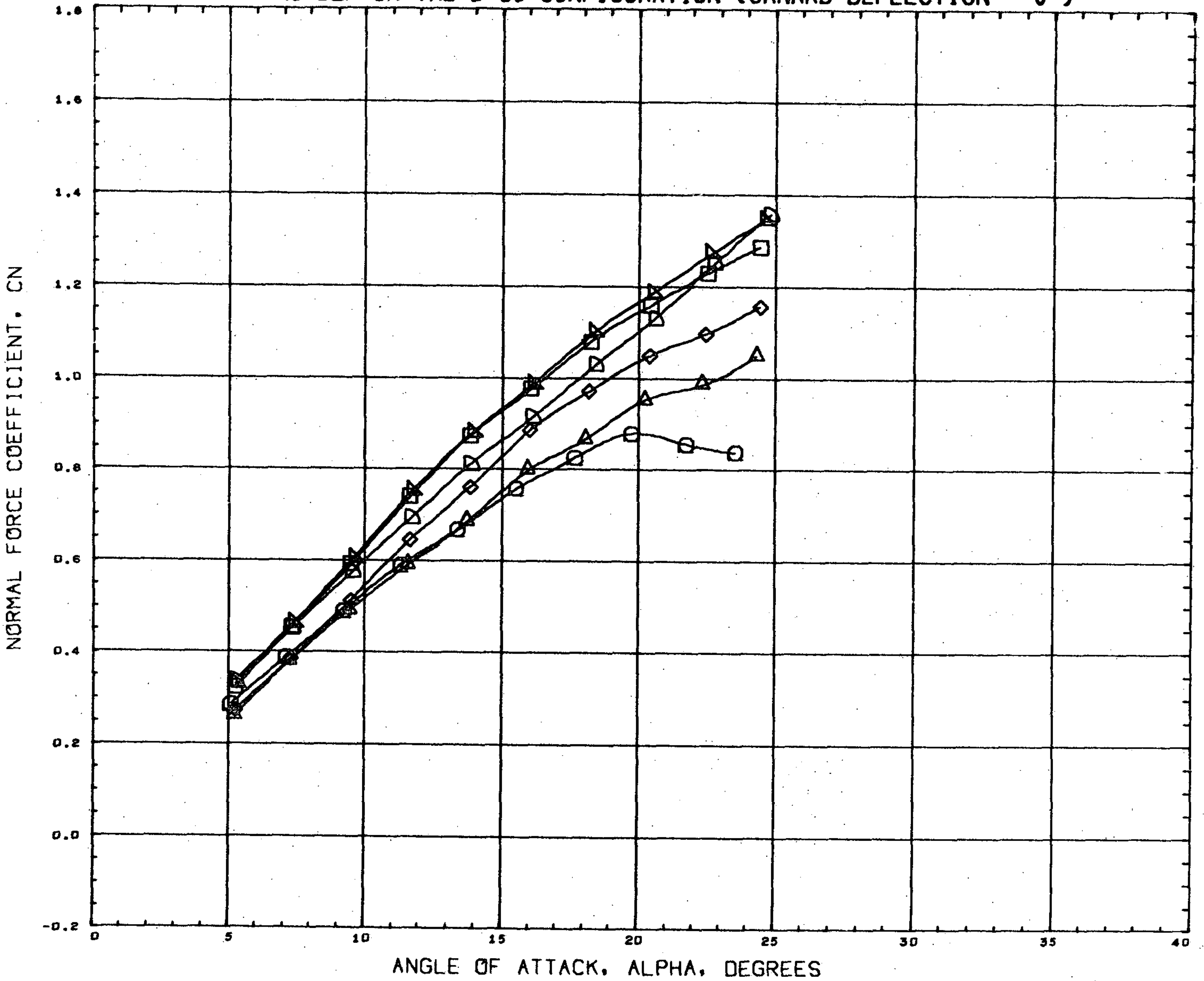
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(E35EBA)	△	MSFC TWT-493 GD/C B25W19C8	E=10	C=0	R=0	0.000	10.000	0.000	0.000
(E35EBO)	○	MSFC TWT-493 GD/C B25W19C8	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35EBB)	◇	MSFC TWT-493 GD/C B25W19C8	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 4.450

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION = 0)

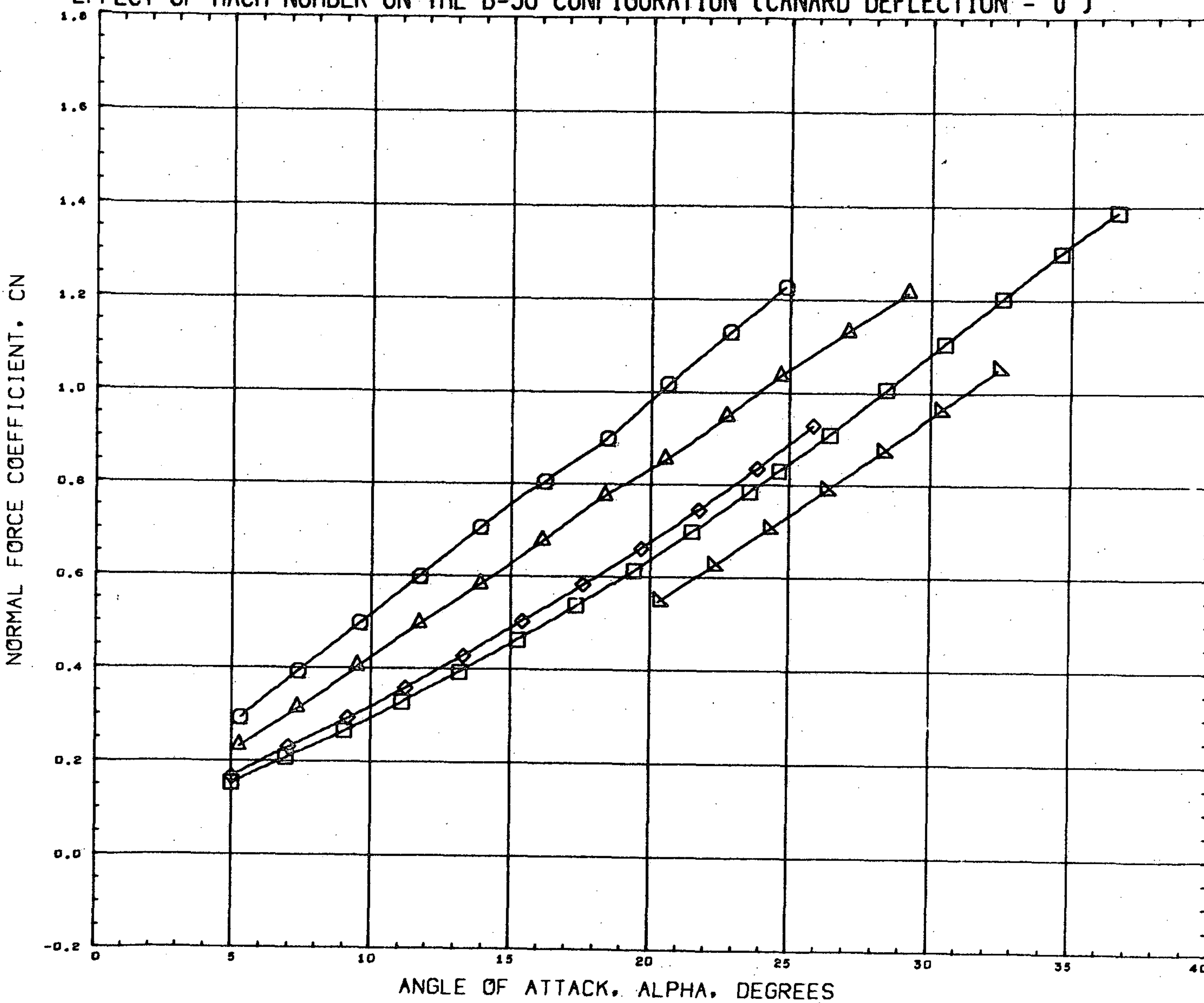


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.599	BETA	0.000	ELEVON	0.000
△	0.899	CANARD	0.000	RUDDER	0.000
◇	0.961				
□	1.002				
◺	1.043				
▷	1.194	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION = 0)



SYMBOL	MACH
○	1.453
△	1.953
◇	2.740
□	2.990
◺	4.450

PARAMETRIC VALUES

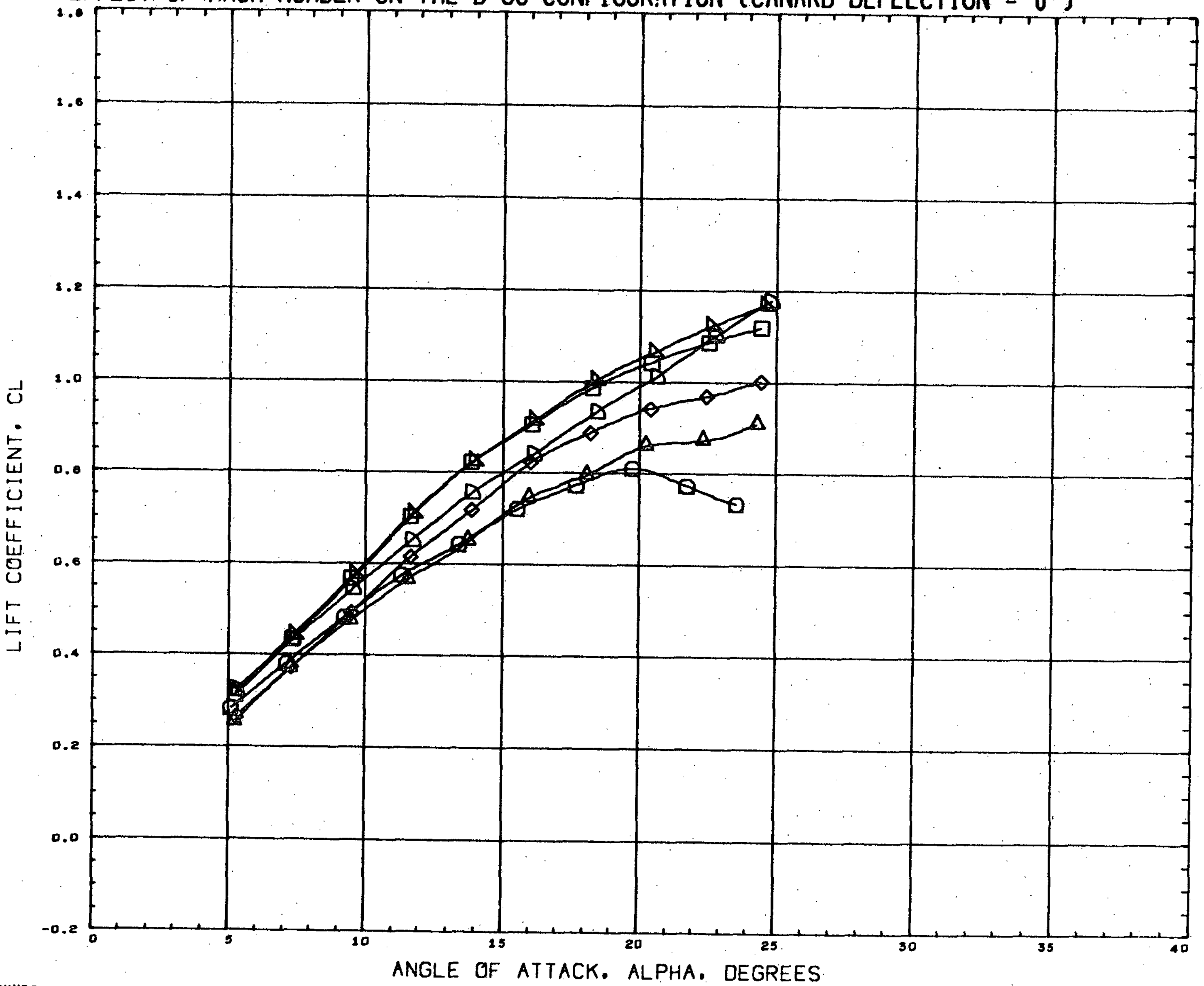
BETA	0.000	ELEVON	0.000
CANARD	0.000	RUDDER	0.000

DATA HIST. CODE #E*A

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION = 0)

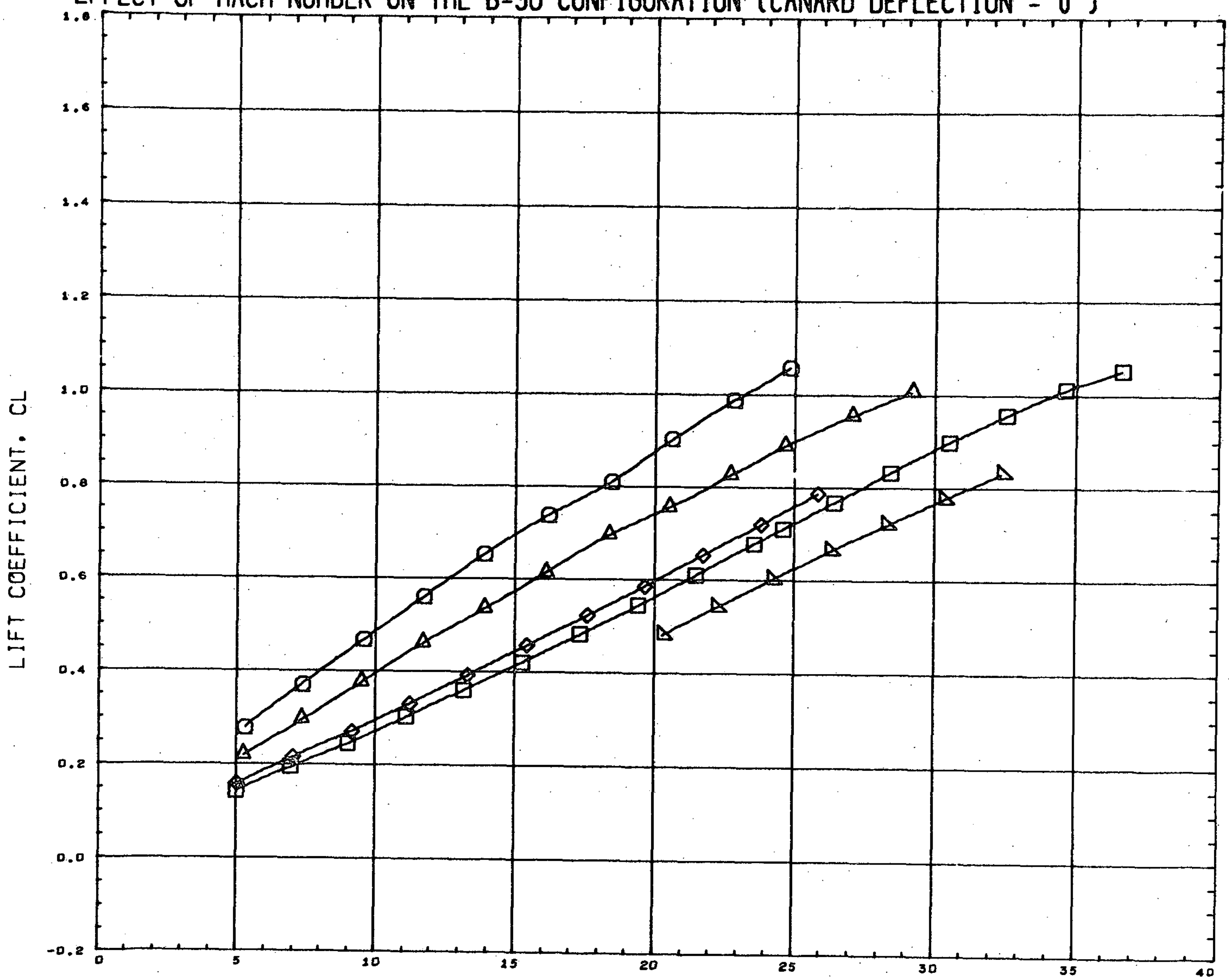


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.599	BETA	0.000	ELEVON	0.000
△	0.899	CANARD	0.000	RUDDER	0.000
◇	0.961				
□	1.002				
◺	1.043				
▷	1.194	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION = 0)



SYMBOL	MACH
○	1.453
△	1.953
◇	2.740
□	2.990
◺	4.450

PARAMETRIC VALUES

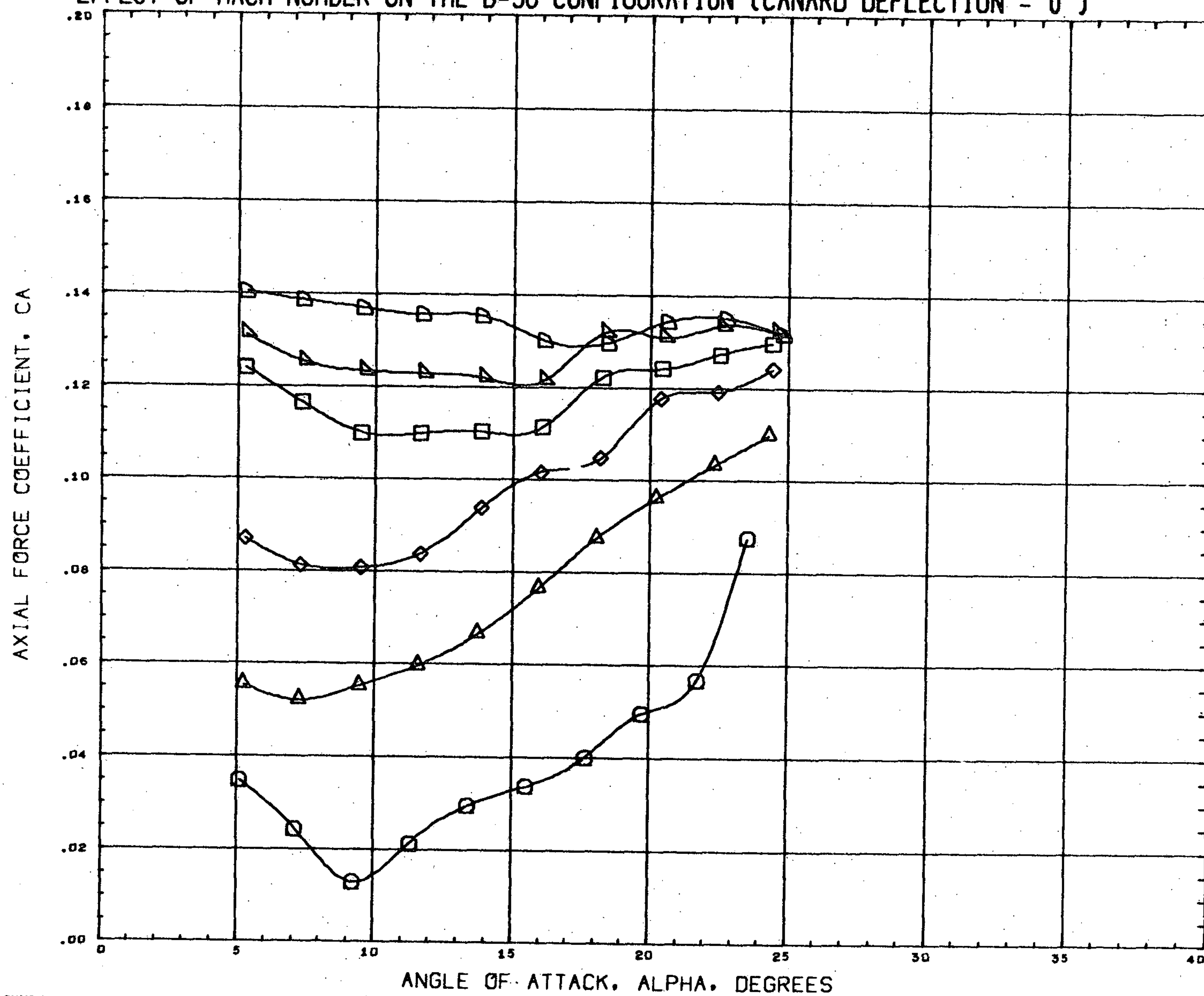
BETA	0.000	ELEVON	0.000
CANARD	0.000	RUDDER	0.000

DATA HIST. CODE *E*A

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION = 0)

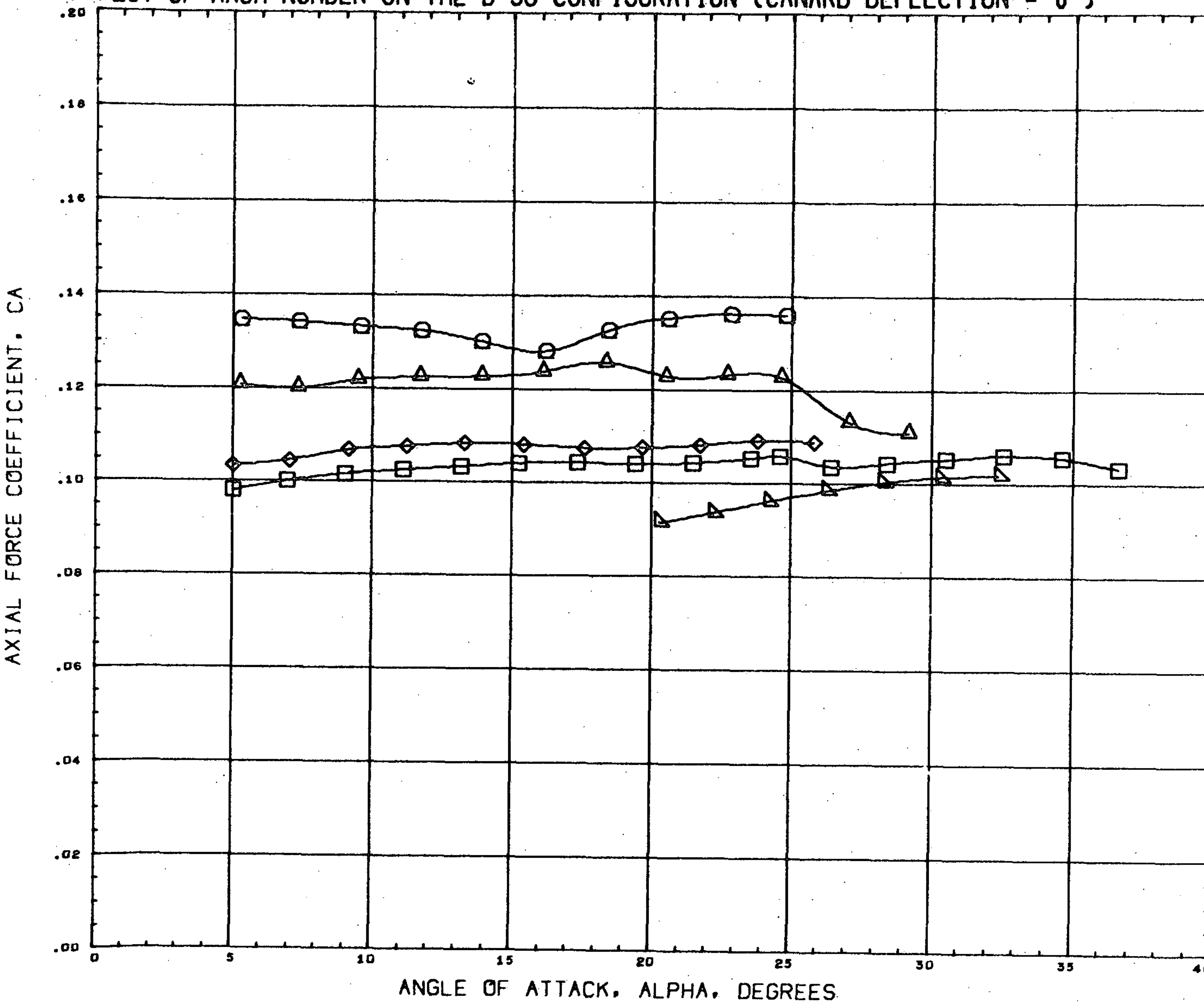


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.599	BETA	0.000	ELEVON	0.000
△	0.899	CANARD	0.000	RUDDER	0.000
◇	0.961				
□	1.002				
◺	1.043				
◹	1.194	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION = 0)



SYMBOL	MACH
○	1.453
△	1.953
◇	2.740
□	2.990
◺	4.450

PARAMETRIC VALUES

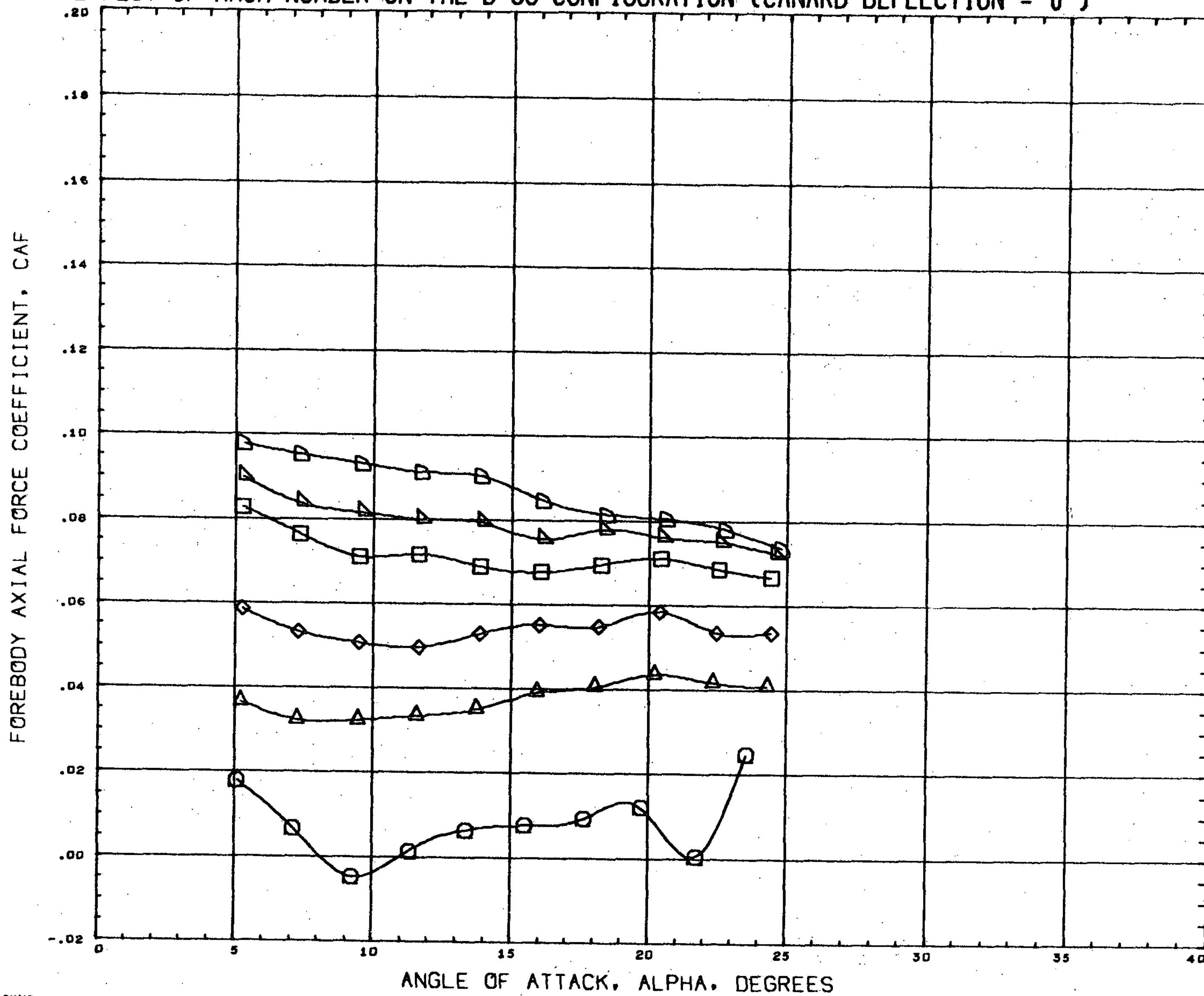
BETA	0.000	ELEVON	0.000
CANARD	0.000	RUDDER	0.000

DATA HIST. CODE *E*A

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION = 0)



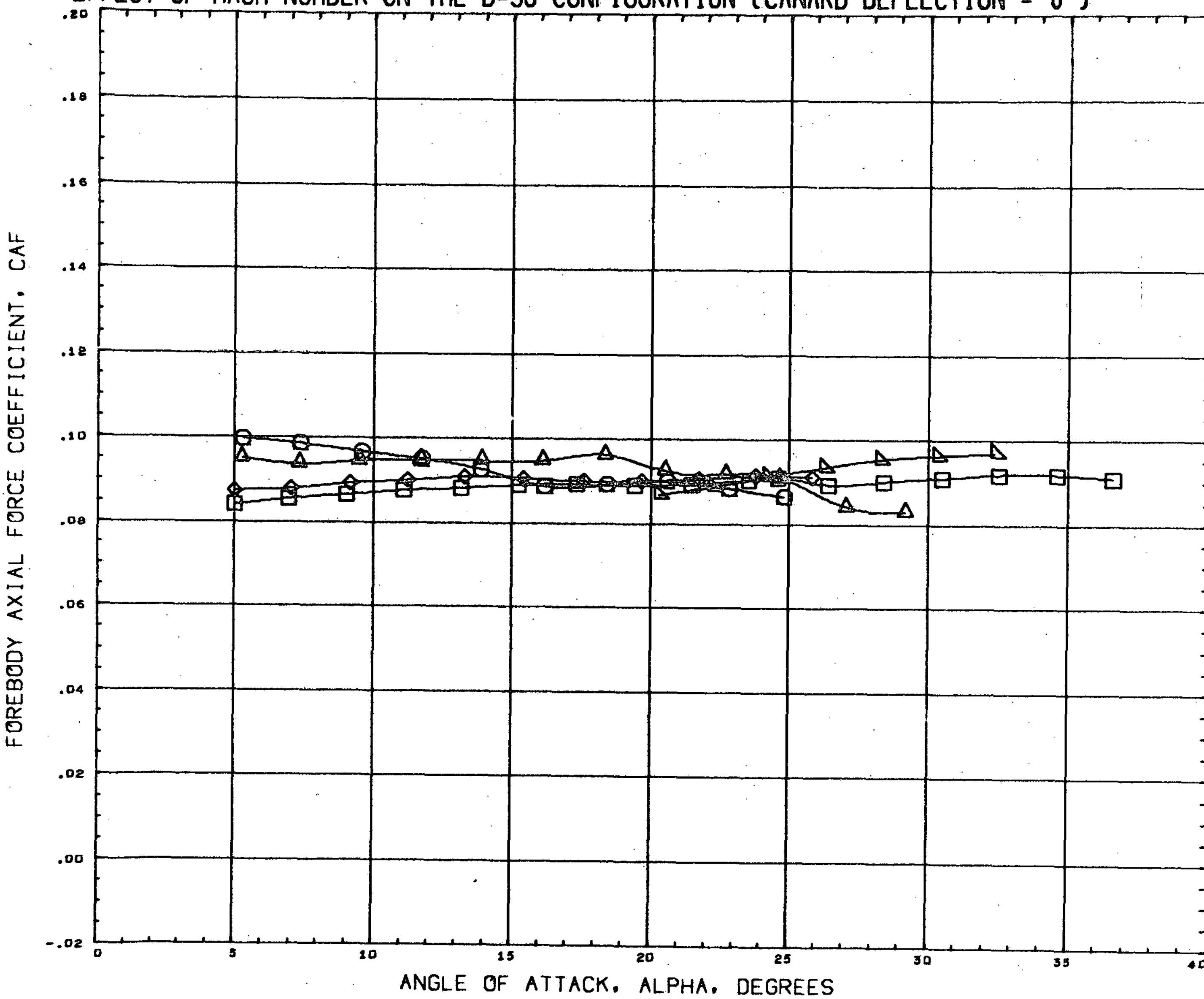
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.599	BETA	0.000	ELEVON	0.000
△	0.899	CANARD	0.000	RUDDER	0.000
◇	0.961				
□	1.002				
◺	1.043				
◹	1.194	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0 (G35EA0) 22 SEP 71 PAGE 84

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION = 0)



SYMBOL	MACH
○	1.453
△	1.953
◇	2.740
□	2.990
◺	4.450

PARAMETRIC VALUES

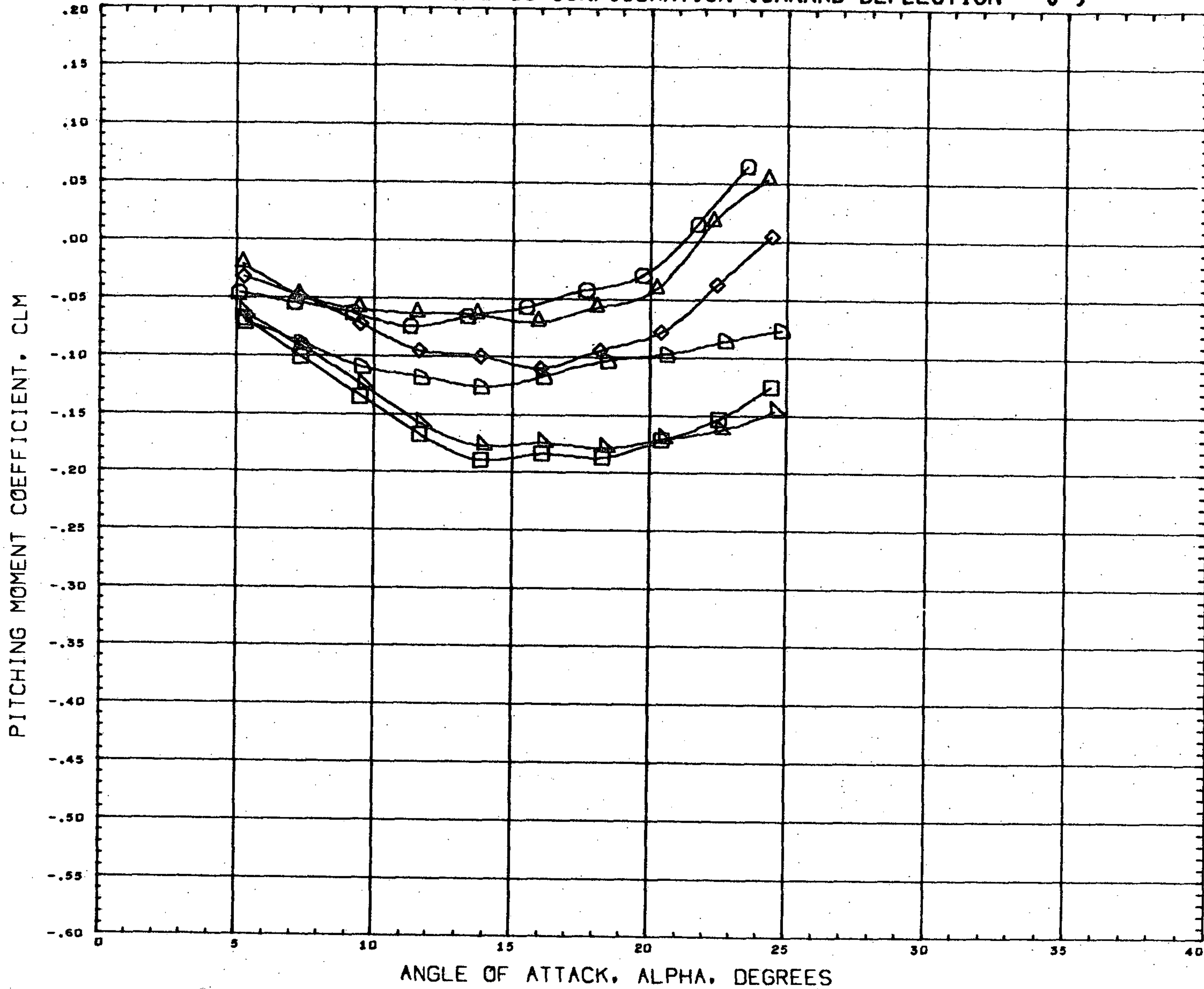
BETA	0.000	ELEVON	0.000
CANARD	0.000	RUDDER	0.000

DATA HIST. CODE #E*A

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION = 0)

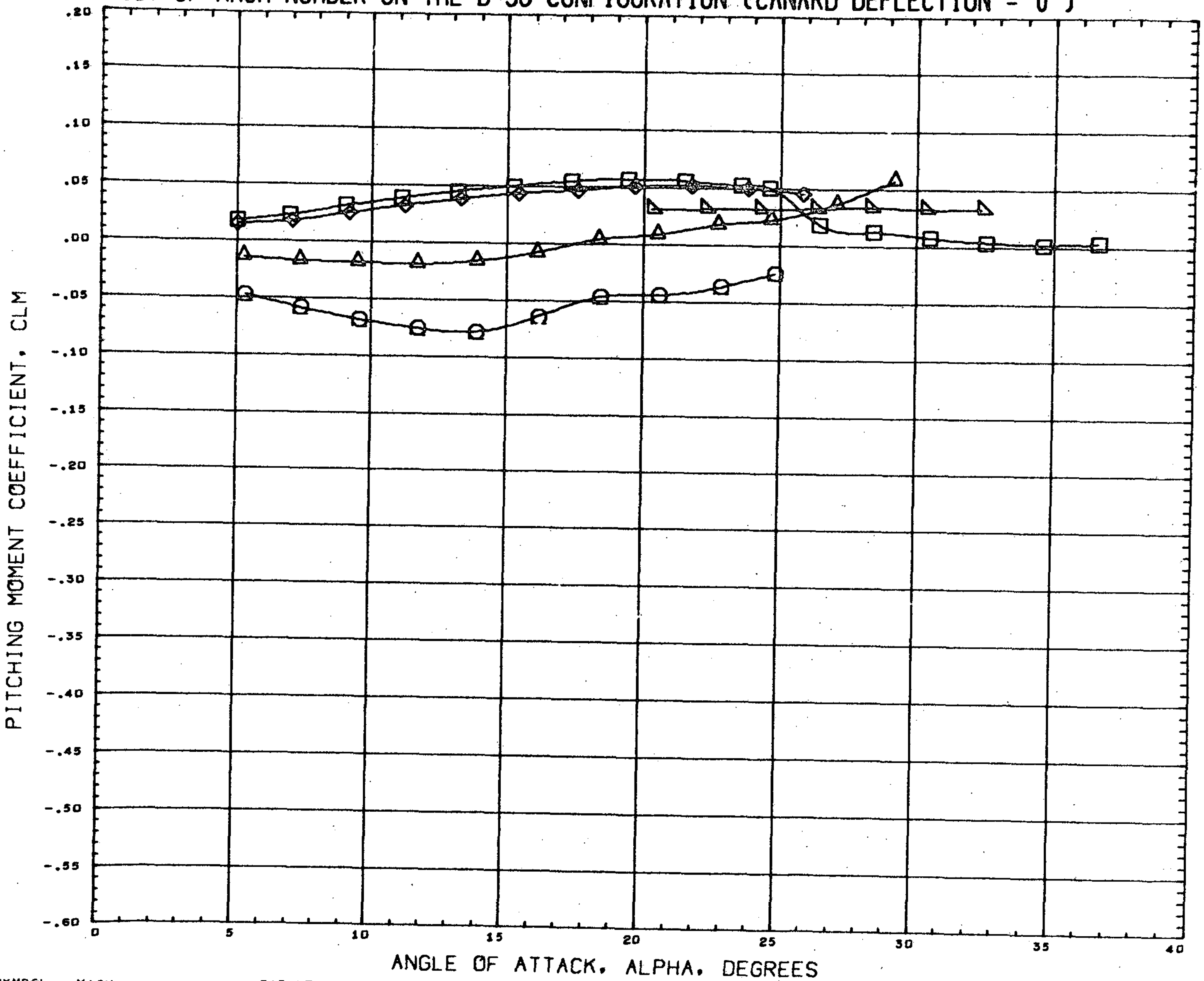


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.599	BETA	0.000	ELEVON	0.000
△	0.899	CANARD	0.000	RUDDER	0.000
◇	0.961				
□	1.002				
◺	1.043				
▷	1.194	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION = 0)



SYMBOL	MACH
○	1.453
△	1.953
◇	2.740
□	2.990
◺	4.450

PARAMETRIC VALUES

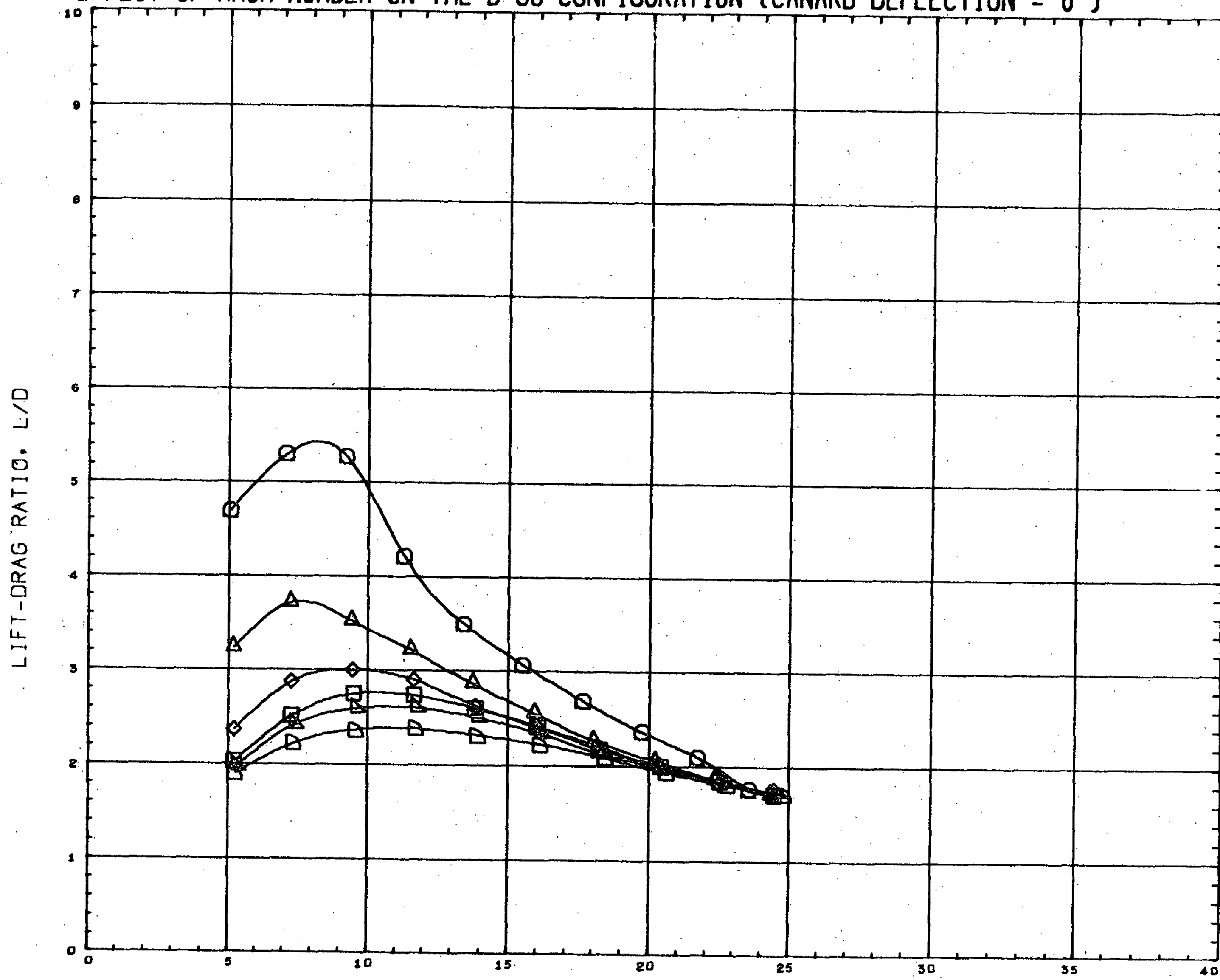
BETA	0.000	ELEVON	0.000
CANARD	0.000	RUDDER	0.000

DATA HIST. CODE *E*A

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

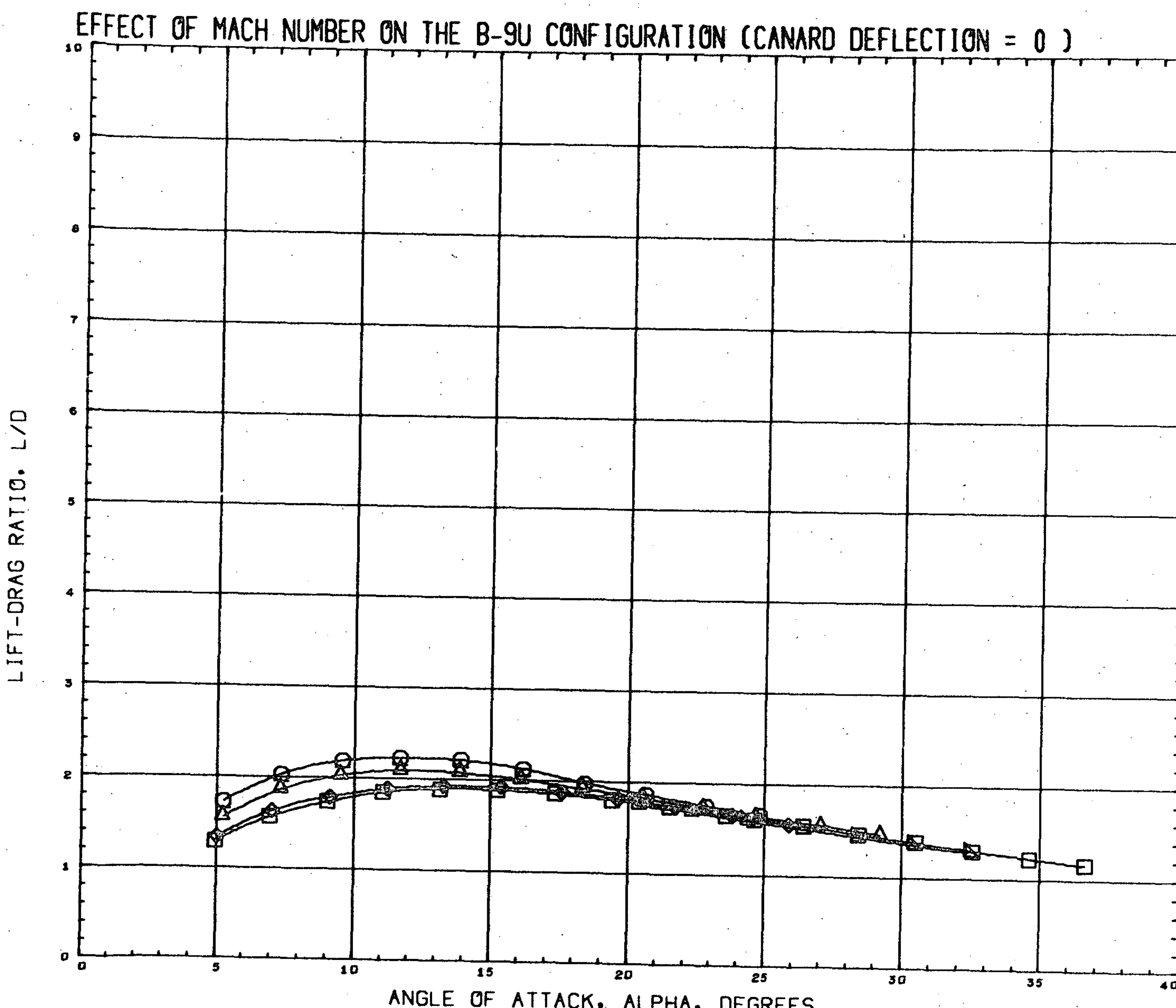
EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION = 0)



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.599	BETA	0.000	ELEVON	0.000
△	0.899	CANARD	0.000	RUDDER	0.000
◇	0.961				
□	1.002				
⊿	1.043				
▷	1.194	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	



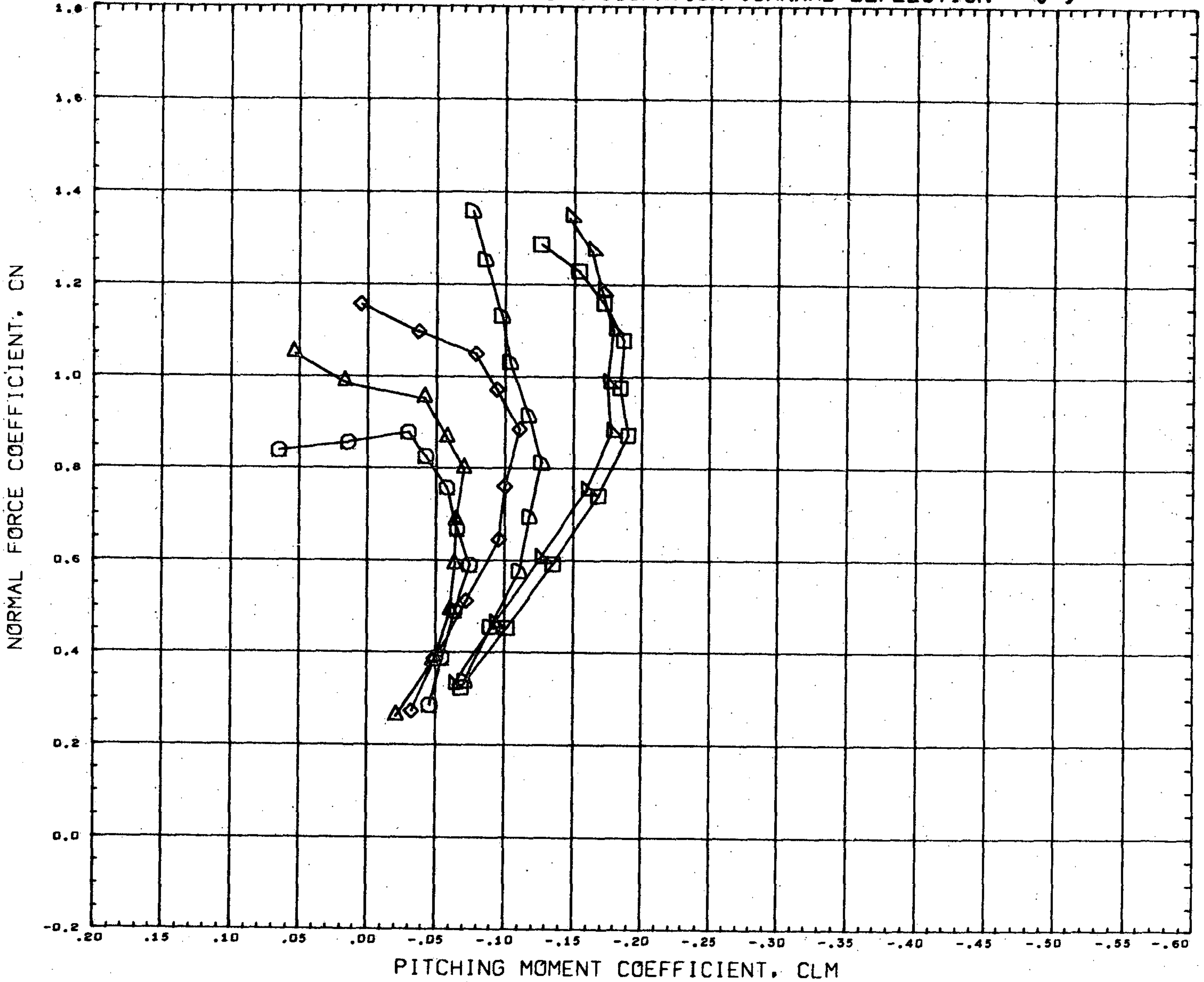
SYMBOL	MACH	PARAMETRIC VALUES			
○	1.453	BETA	0.000	ELEVON	0.000
△	1.953	CANARD	0.000	RUDDER	0.000
◇	2.740				
□	2.990				
◺	4.450				

DATA HIST. CODE *E*A

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION = 0)

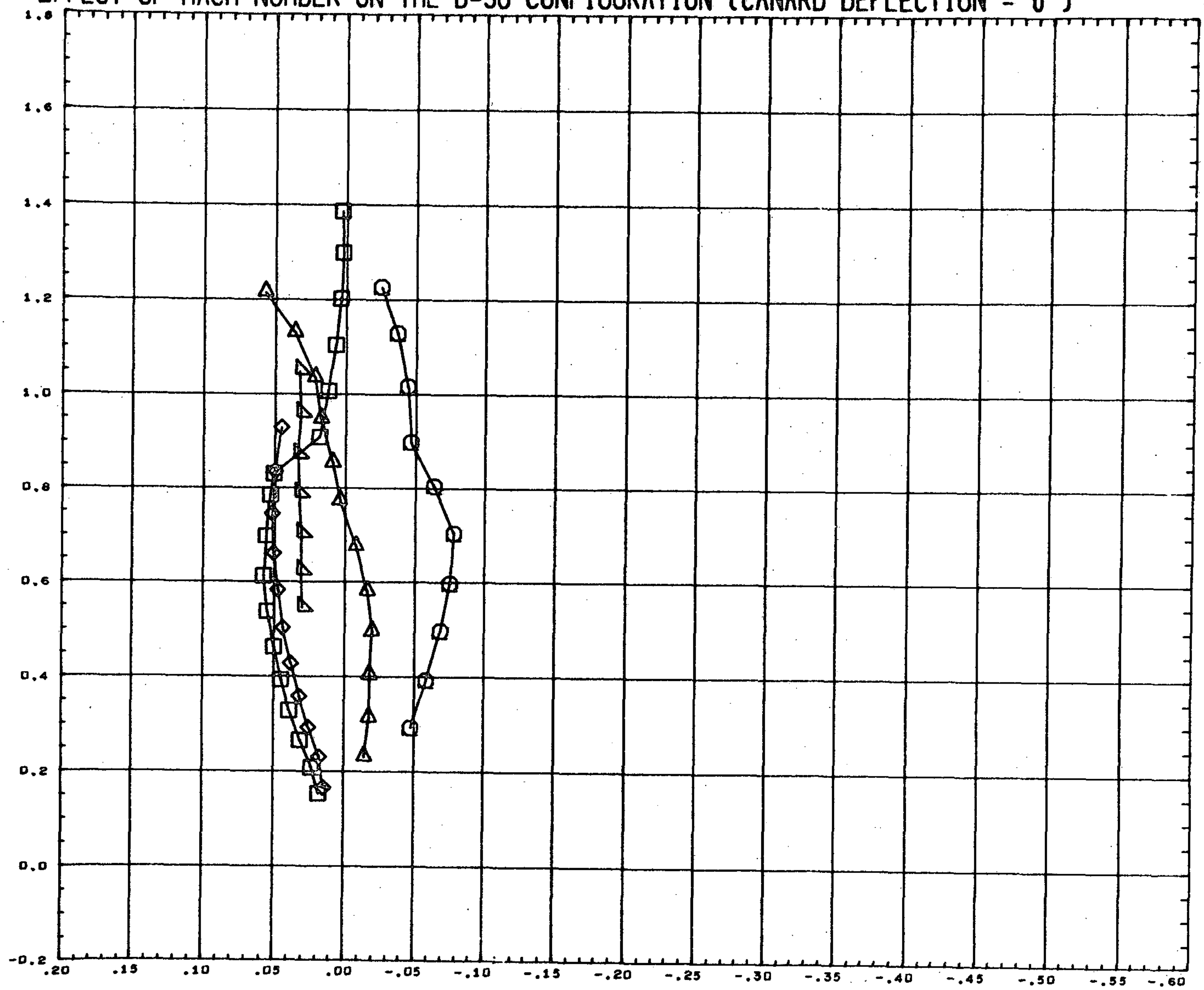


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.599	BETA	0.000	ELEVON	0.000
△	0.899	CANARD	0.000	RUDDER	0.000
◇	0.961				
□	1.002				
◺	1.043				
D	1.194	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION = 0)



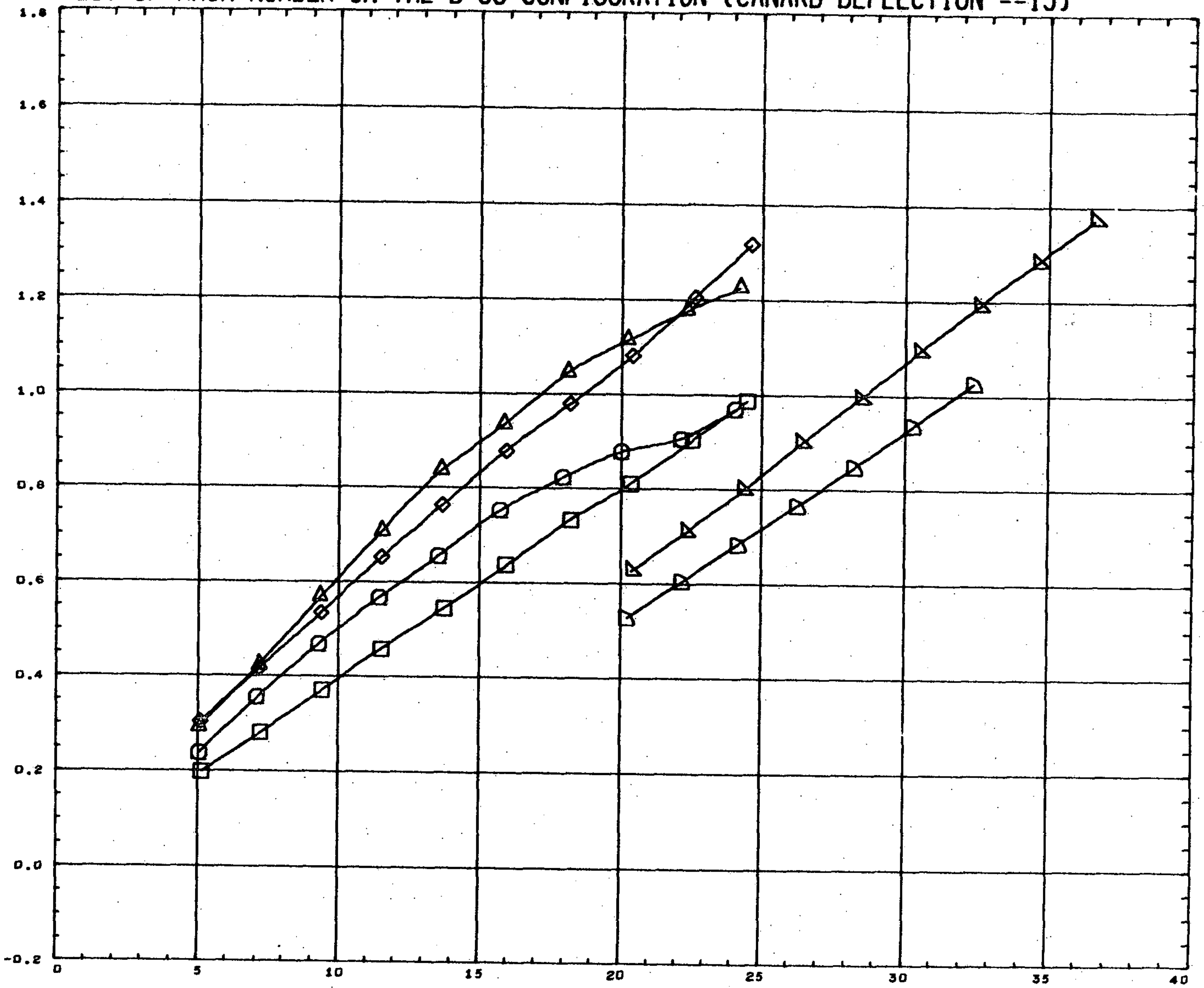
SYMBOL	MACH	PARAMETRIC VALUES			
○	1.453	BETA	0.000	ELEVON	0.000
△	1.953	CANARD	0.000	RUDDER	0.000
◇	2.740				
□	2.990				
◺	4.450				

DATA HIST. CODE *E*A

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION =-15)



SYMBOL	MACH
○	0.899
△	0.998
◇	1.189
□	1.956
◺	2.990
D	4.450

PARAMETRIC VALUES

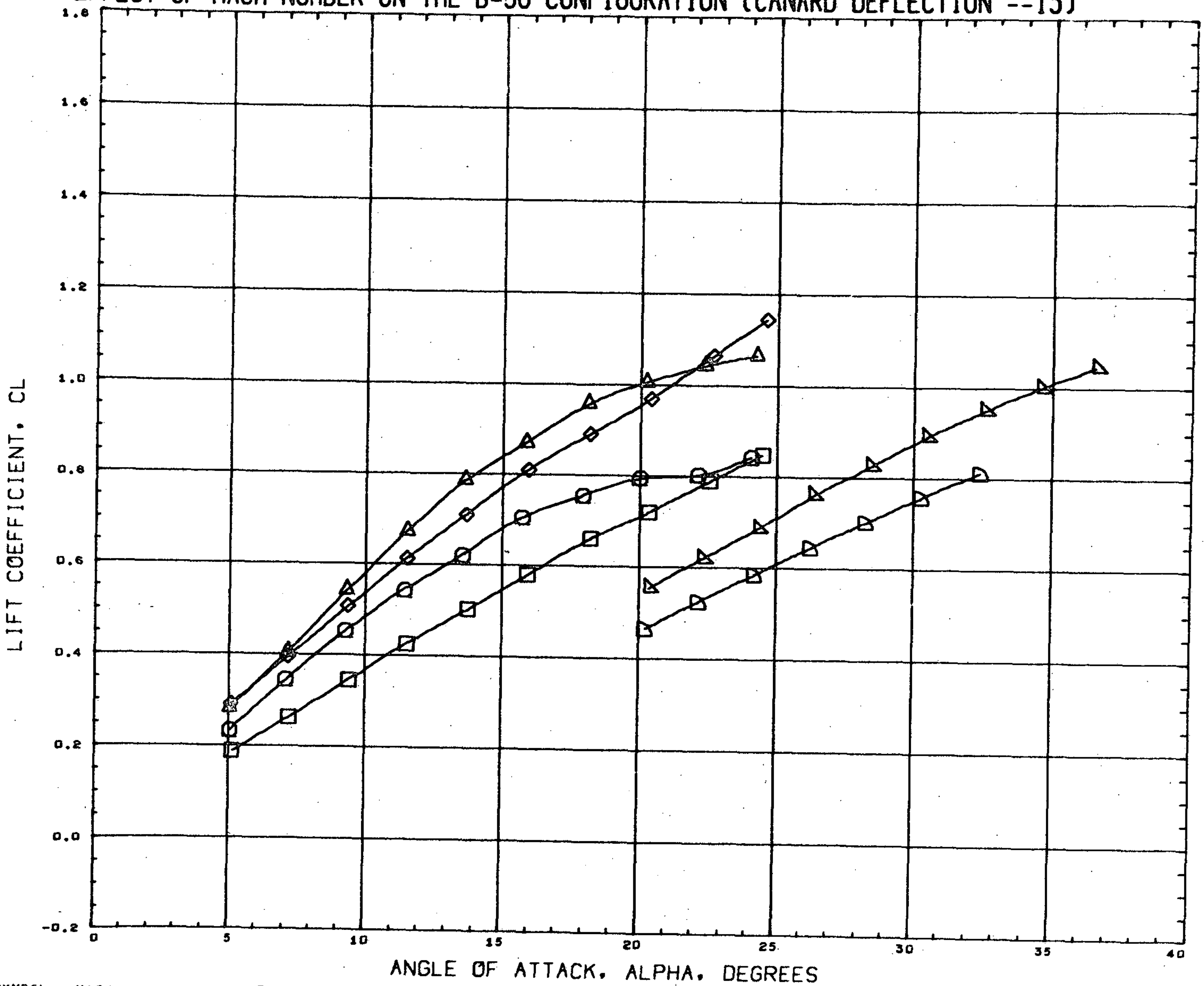
BETA	0.000	ELEVON	0.000
CANARD	-15.000	RUDDER	0.000

DATA HIST. CODE *E*A

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION =-15)

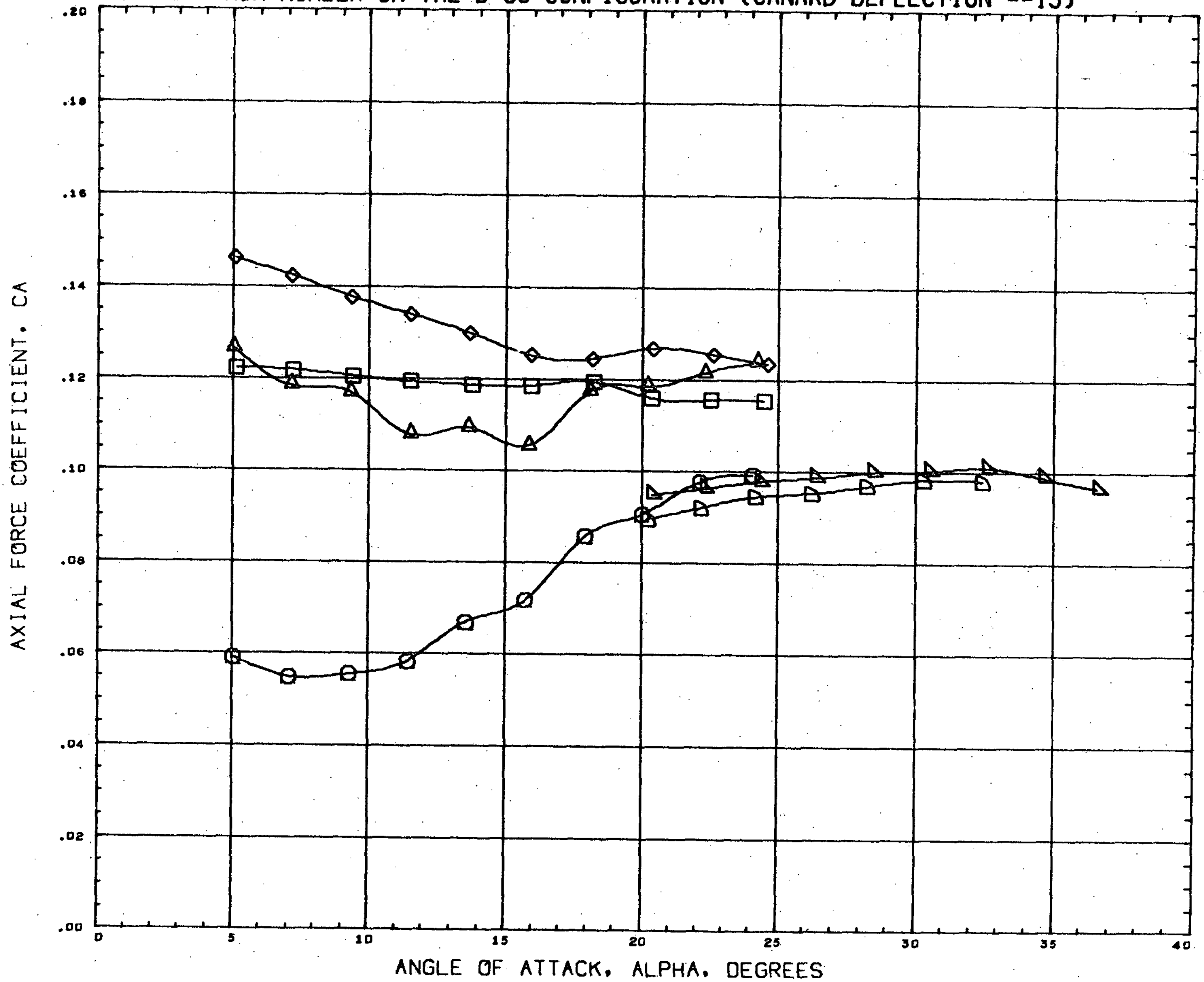


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.899	BETA	0.000	ELEVON	0.000
△	0.998	CANARD	-15.000	RUDDER	0.000
◇	1.189				
□	1.956				
⊿	2.990				
D	4.450	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION =-15)



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.899	BETA	0.000	ELEVON	0.000
△	0.998	CANARD	- 15.000	RUDDER	0.000
◇	1.189				
□	1.956				
◺	2.990				
◻	4.450	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

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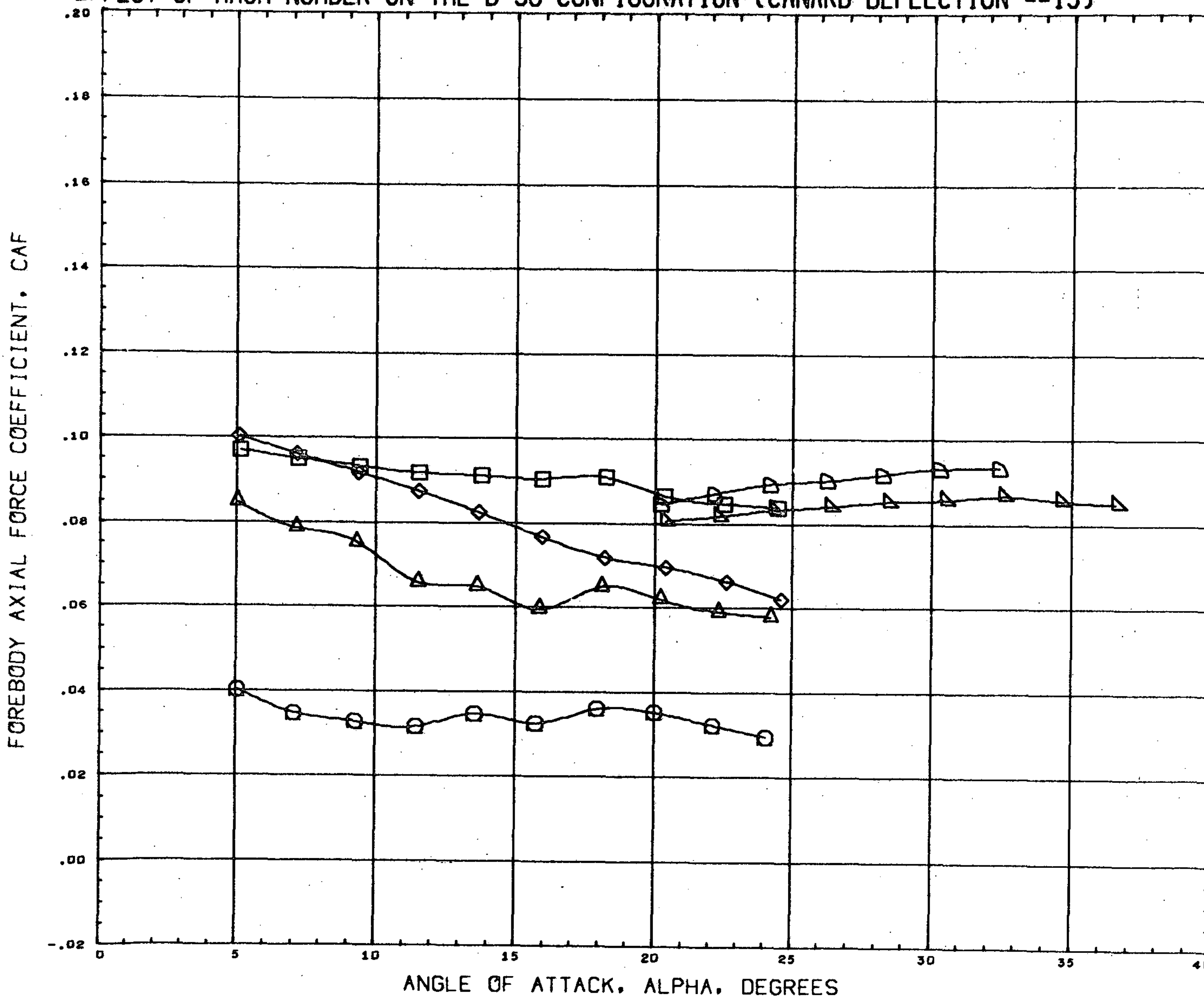
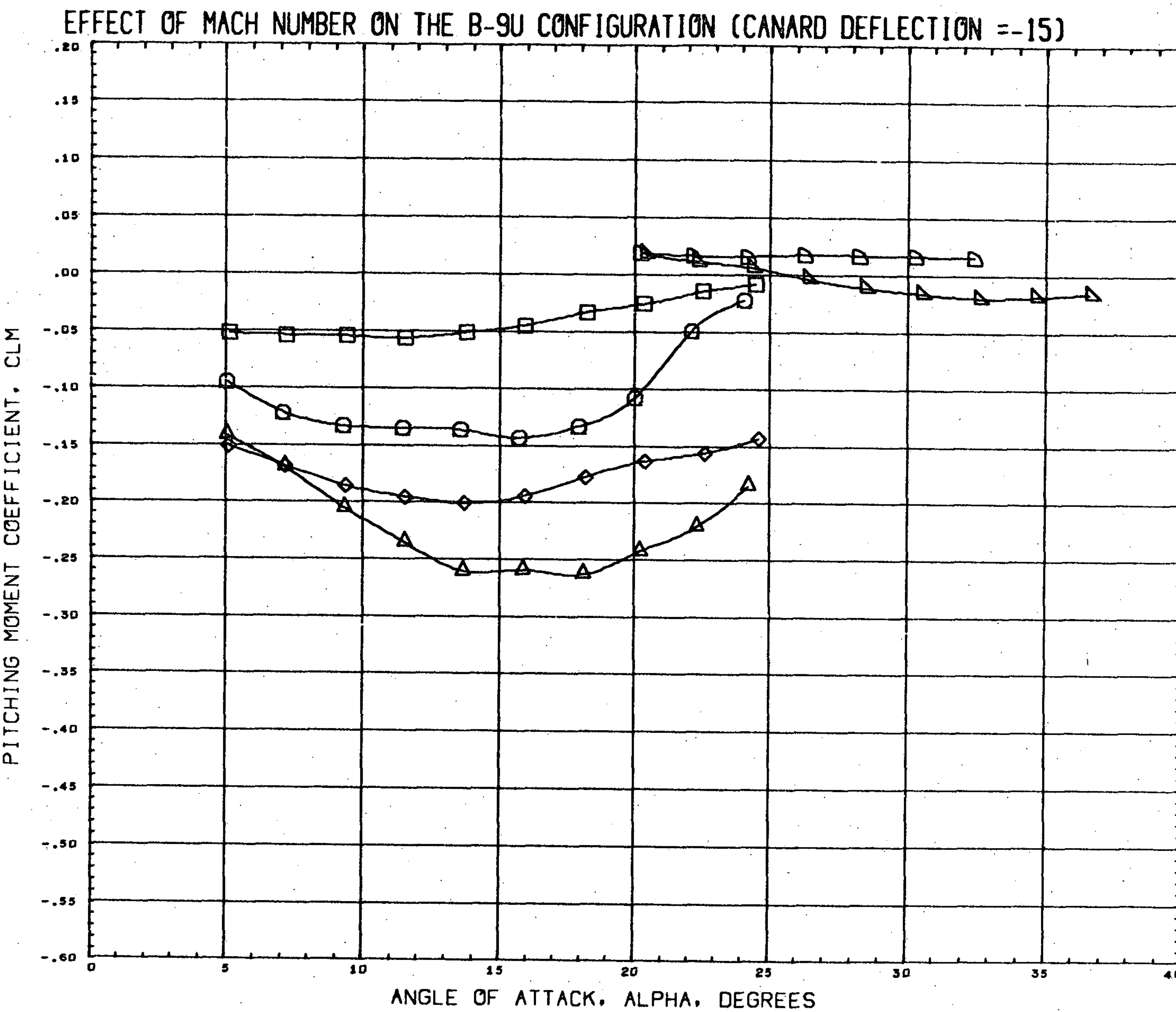
EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION =-15)



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.899	BETA	0.000	ELEVON	0.000
△	0.998	CANARD	-15.000	RUDDER	0.000
◇	1.189				
□	1.956				
◺	2.990				
D	4.450	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

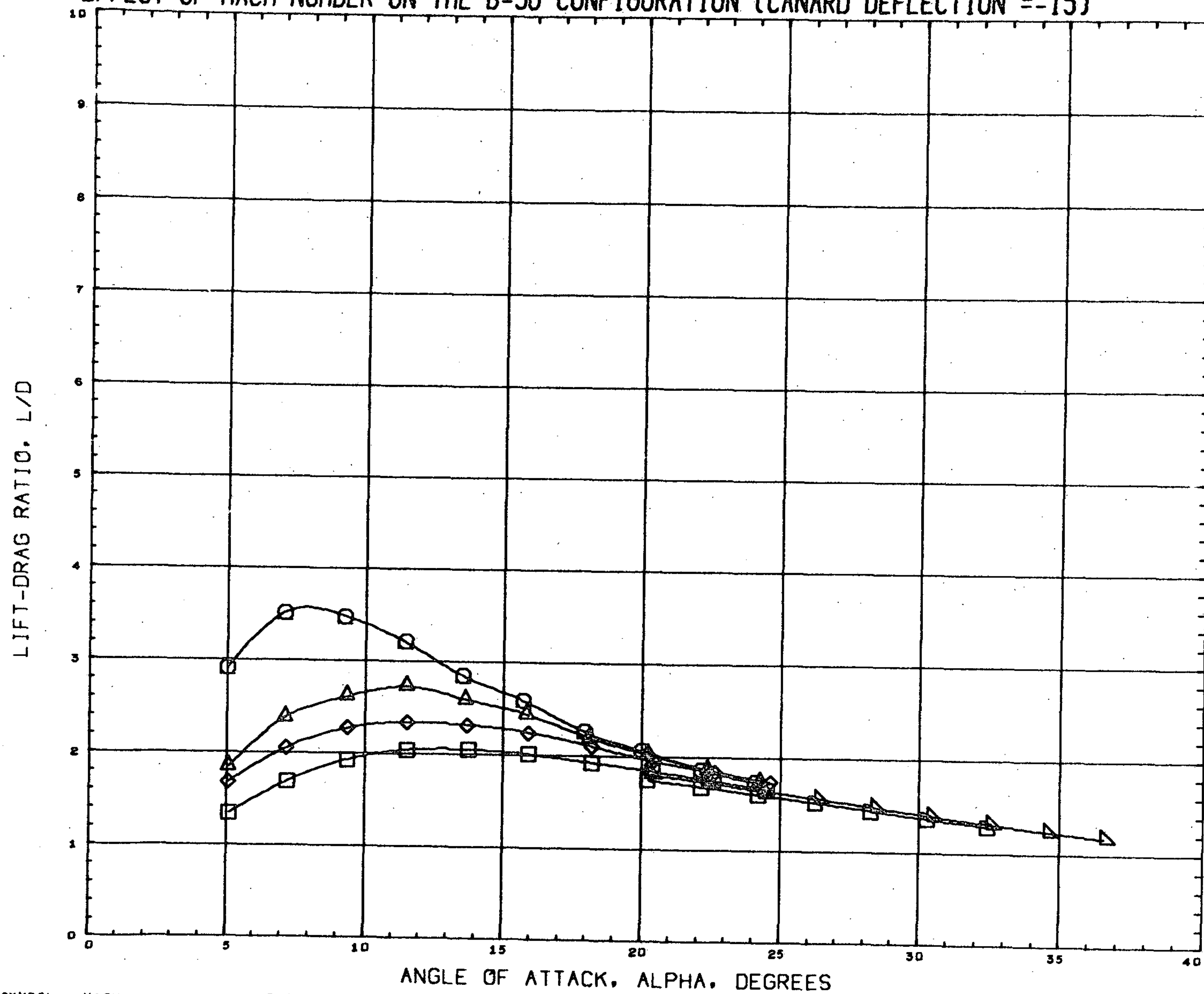


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.899	BETA	0.000	ELEVON	0.000
△	0.998	CANARD	-15.000	RUDDER	0.000
◇	1.189				
□	1.956				
◺	2.990				
◿	4.450	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION =-15)



SYMBOL	MACH
○	0.899
△	0.998
◇	1.189
□	1.956
◺	2.990
◁	4.450

PARAMETRIC VALUES

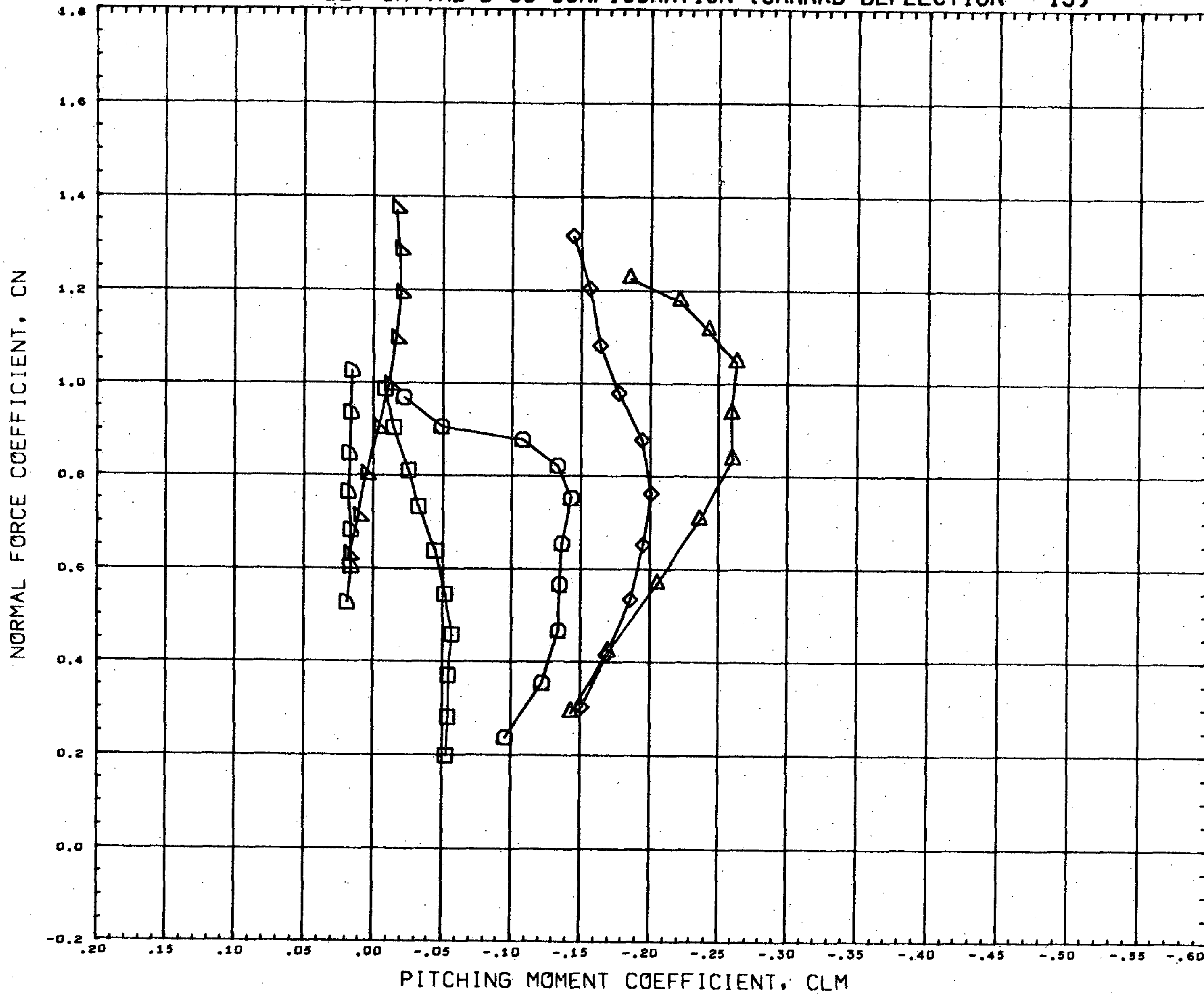
BETA	0.000	ELEVON	0.000
CANARD	- 15.000	RUDDER	0.000

DATA HIST. CODE *E*A

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION =-15)

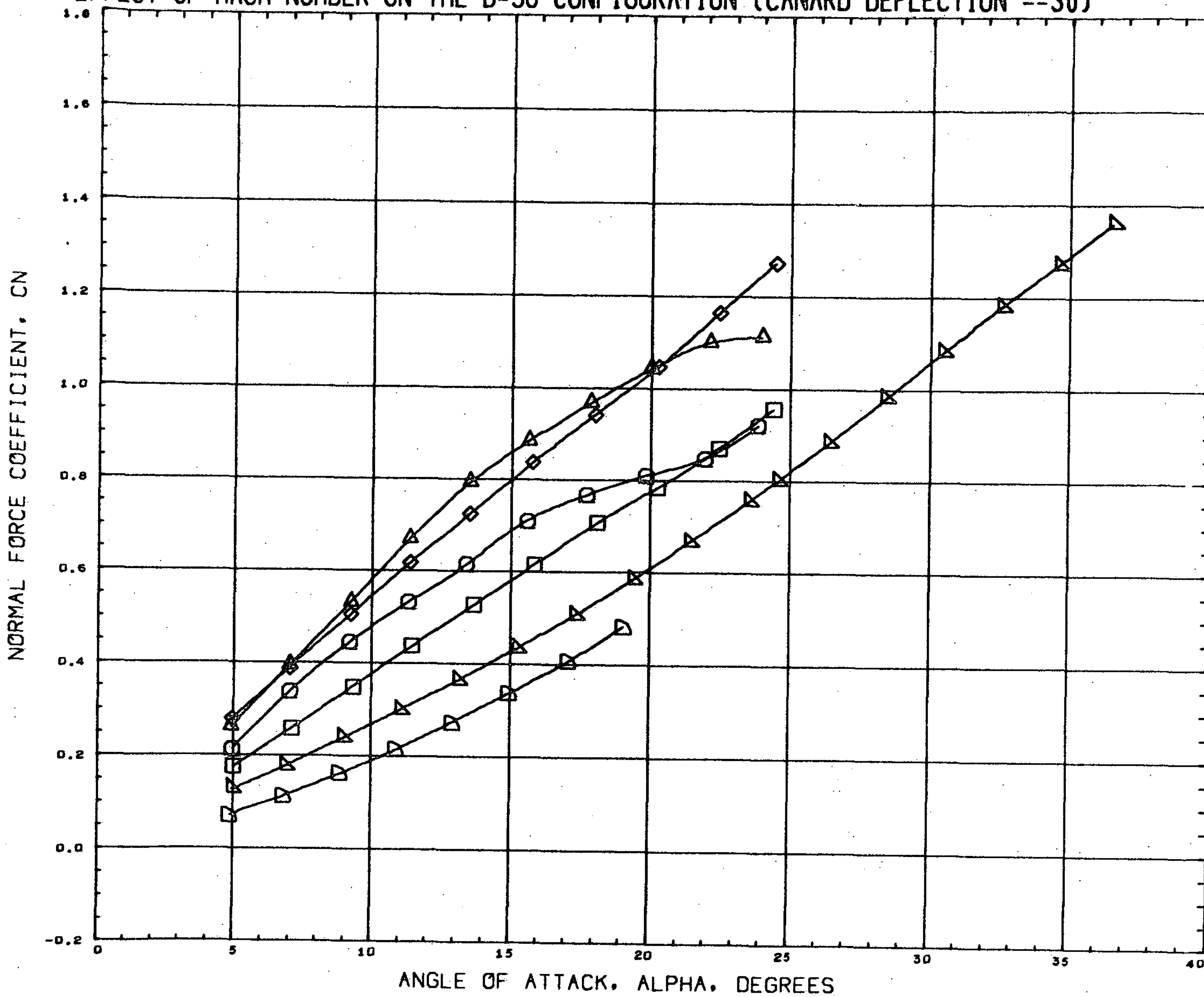


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.899	BETA	0.000	ELEVON	0.000
△	0.996	CANARD	- 15.000	RUDDER	0.000
◇	1.189				
□	1.956				
◺	2.990				
D	4.450	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

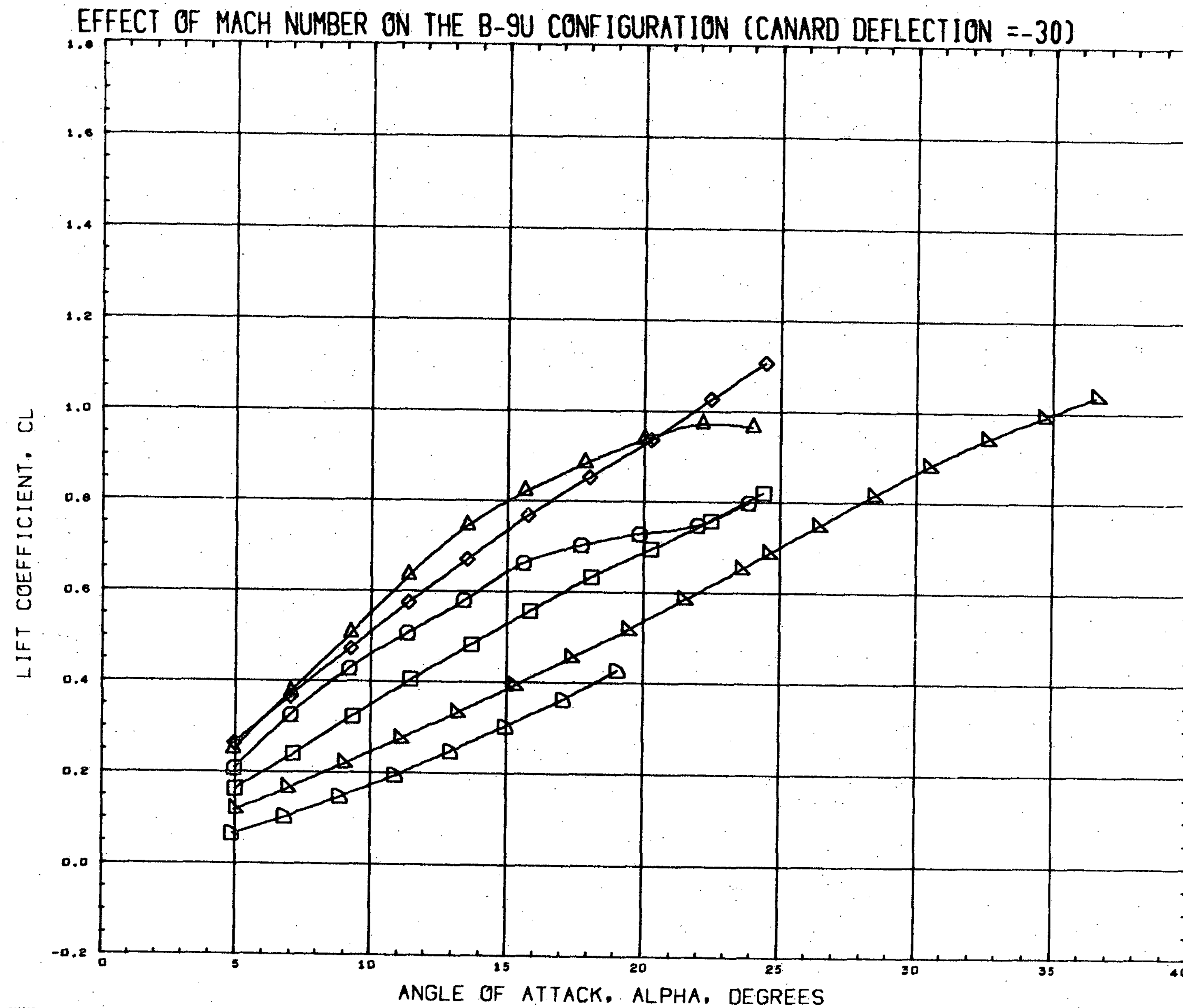
EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION =-30)



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.897	BETA	0.000	ELEVON	0.000
△	0.994	CANARD	- 30.000	RUDDER	0.000
◇	1.193				
□	1.960				
◺	2.990				
D	4.960	DATA HIST. CODE	#E#A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

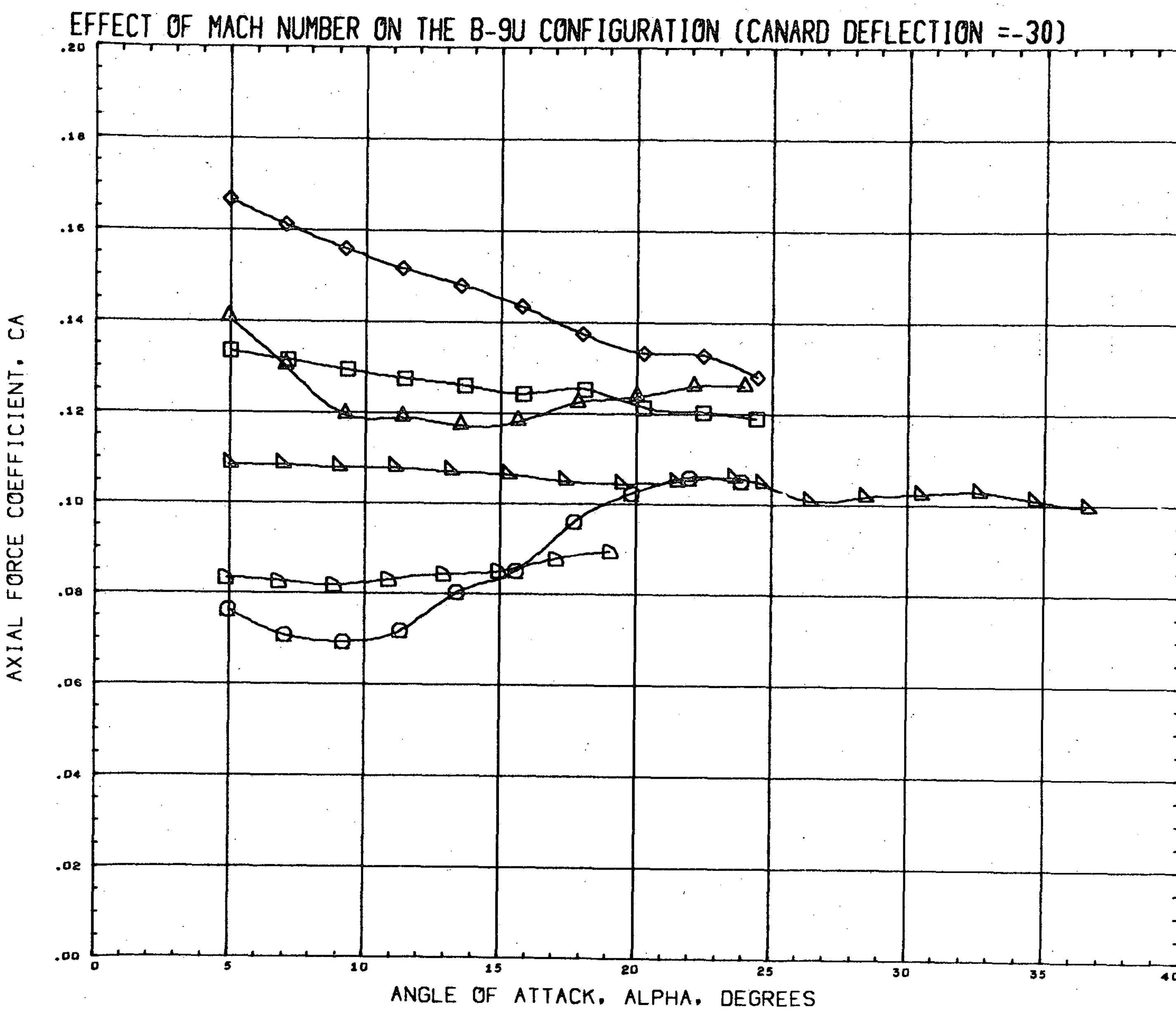


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.897	BETA	0.000	ELEVON	0.000
△	0.994	CANARD	-30.000	RUDDER	0.000
◇	1.193				
□	1.960				
◺	2.990				
D	4.960	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0 (E35CCB) 22 SEP 71

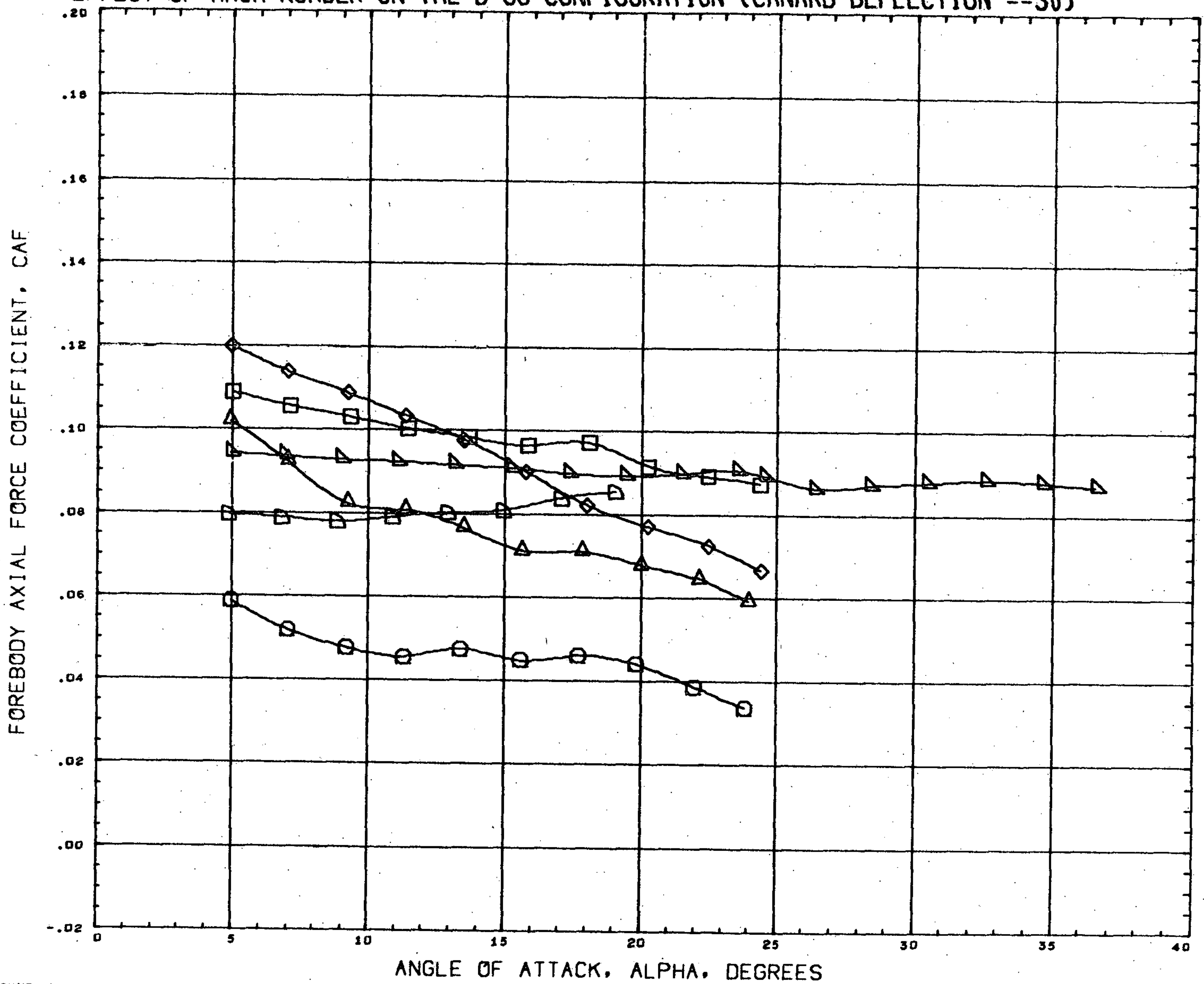


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.897	BETA	0.000	ELEVON	0.000
△	0.994	CANARD	- 30.000	RUDDER	0.000
◇	1.193				
□	1.960				
◺	2.990				
D	4.960	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION =-30)



SYMBOL	MACH
O	0.897
Δ	0.994
◇	1.193
□	1.960
◺	2.990
D	4.960

PARAMETRIC VALUES

BETA	0.000	ELEVON	0.000
CANARD	- 30.000	RUDDER	0.000

DATA HIST. CODE *E*A

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0 (E35CCB) 22 SEP 71 PAGE 102

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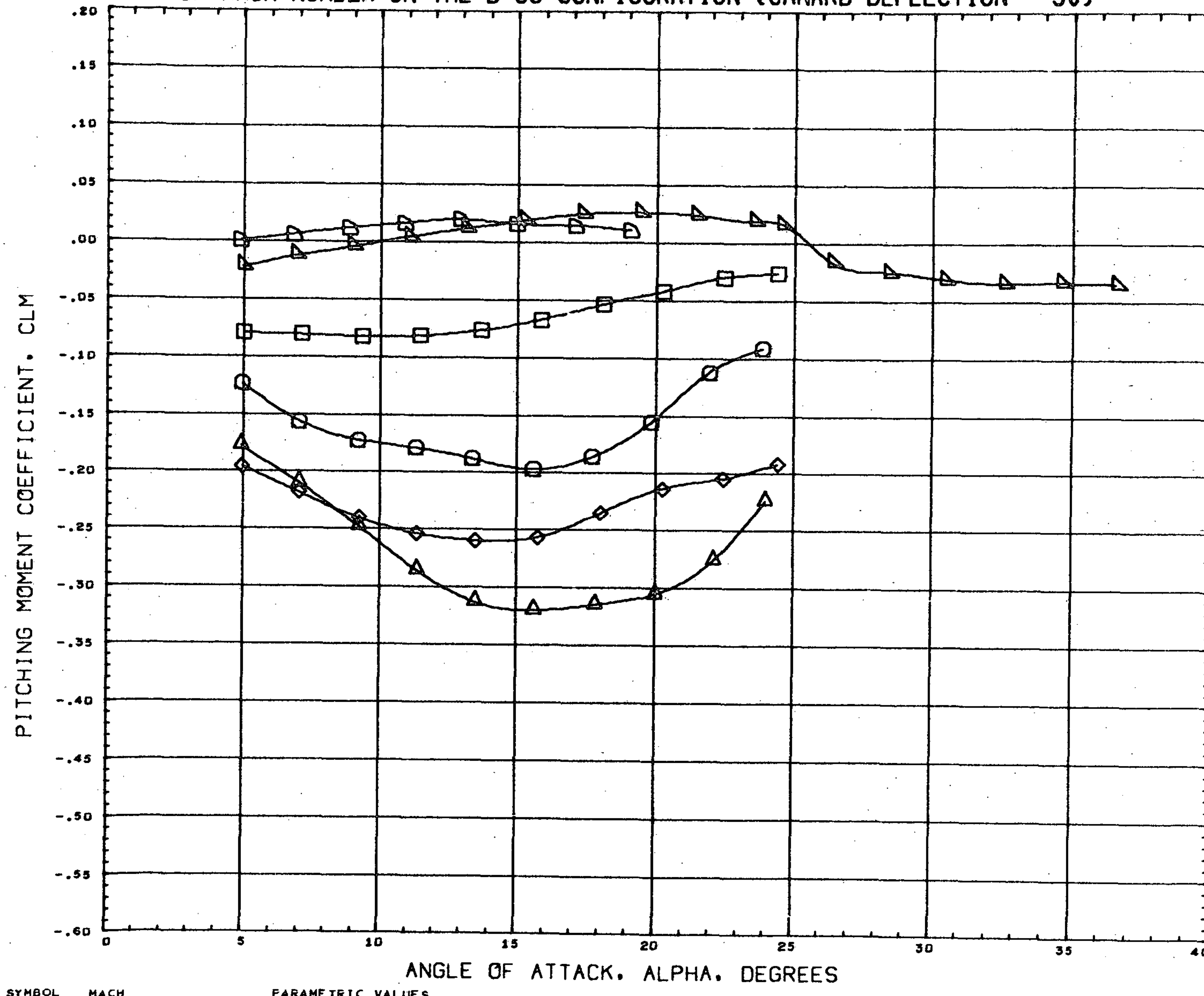
EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION =-30)

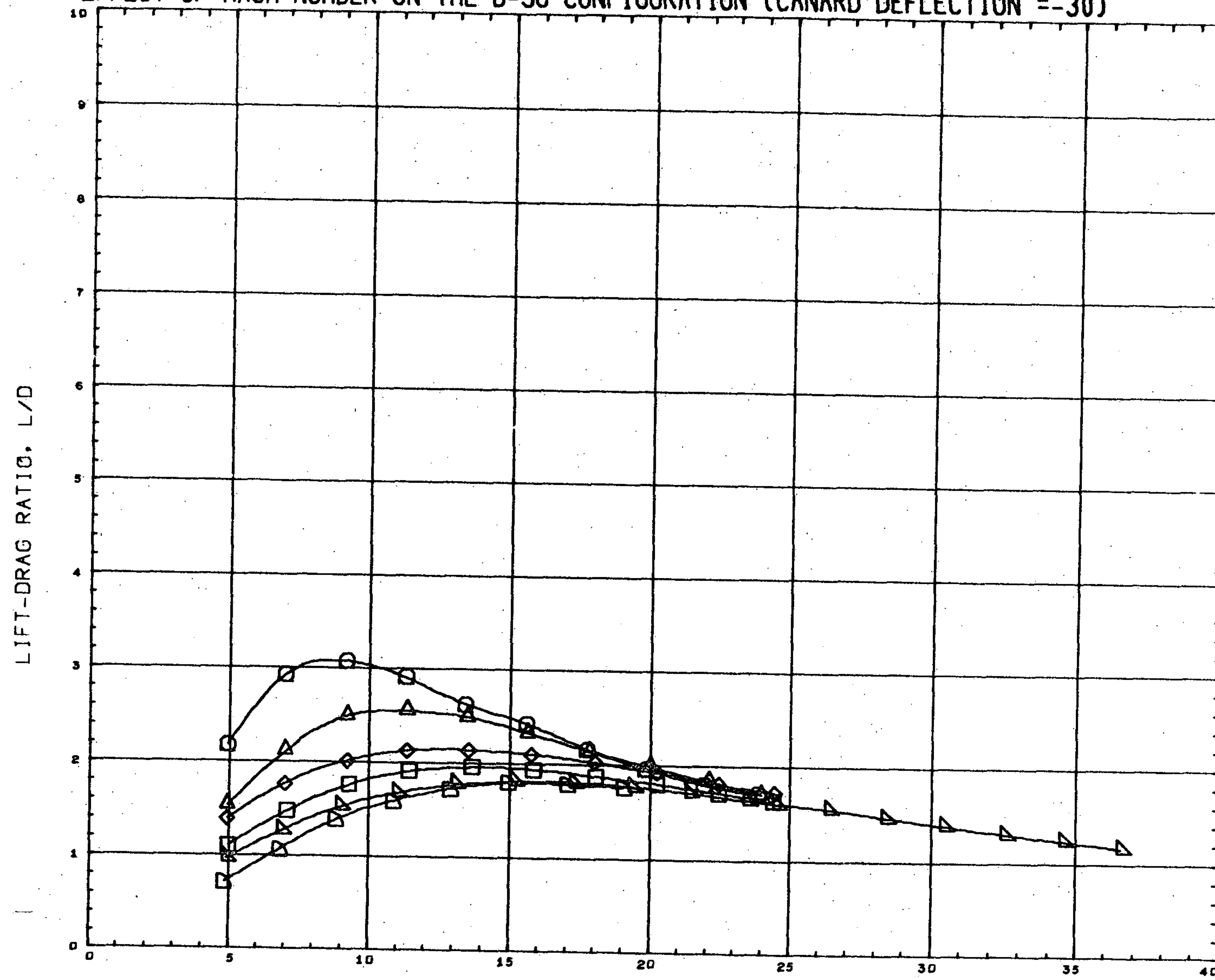


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.897	BETA	0.000	ELEVON	0.000
△	0.994	CANARD	- 30.000	RUDDER	0.000
◇	1.193				
□	1.960				
◺	2.990				
D	4.960	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION =-30)

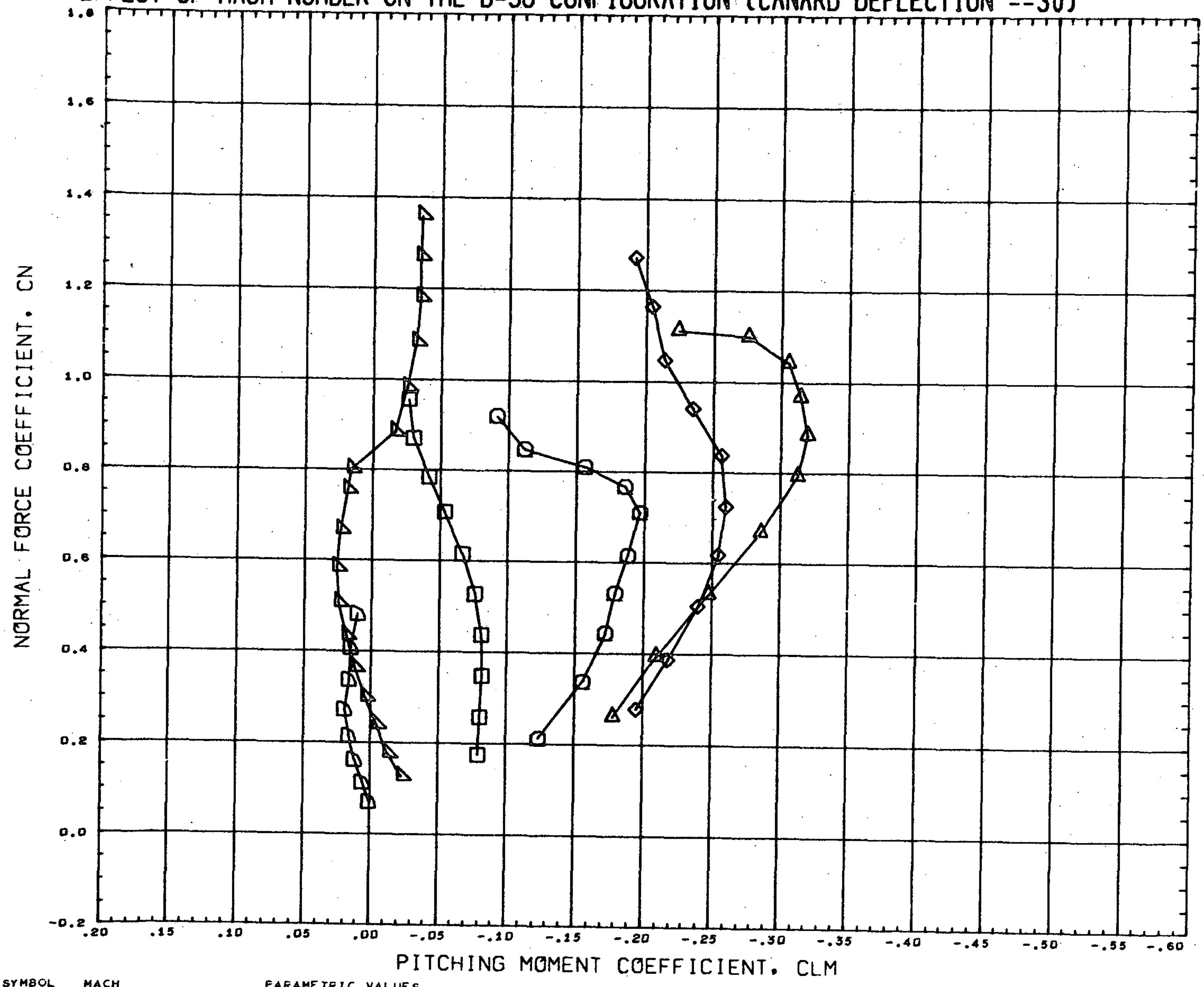


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.897	BETA	0.000	ELEVON	0.000
△	0.994	CANARD	- 30.000	RUDDER	0.000
◇	1.193				
□	1.960				
◺	2.990				
▷	4.960	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF MACH NUMBER ON THE B-9U CONFIGURATION (CANARD DEFLECTION =-30)

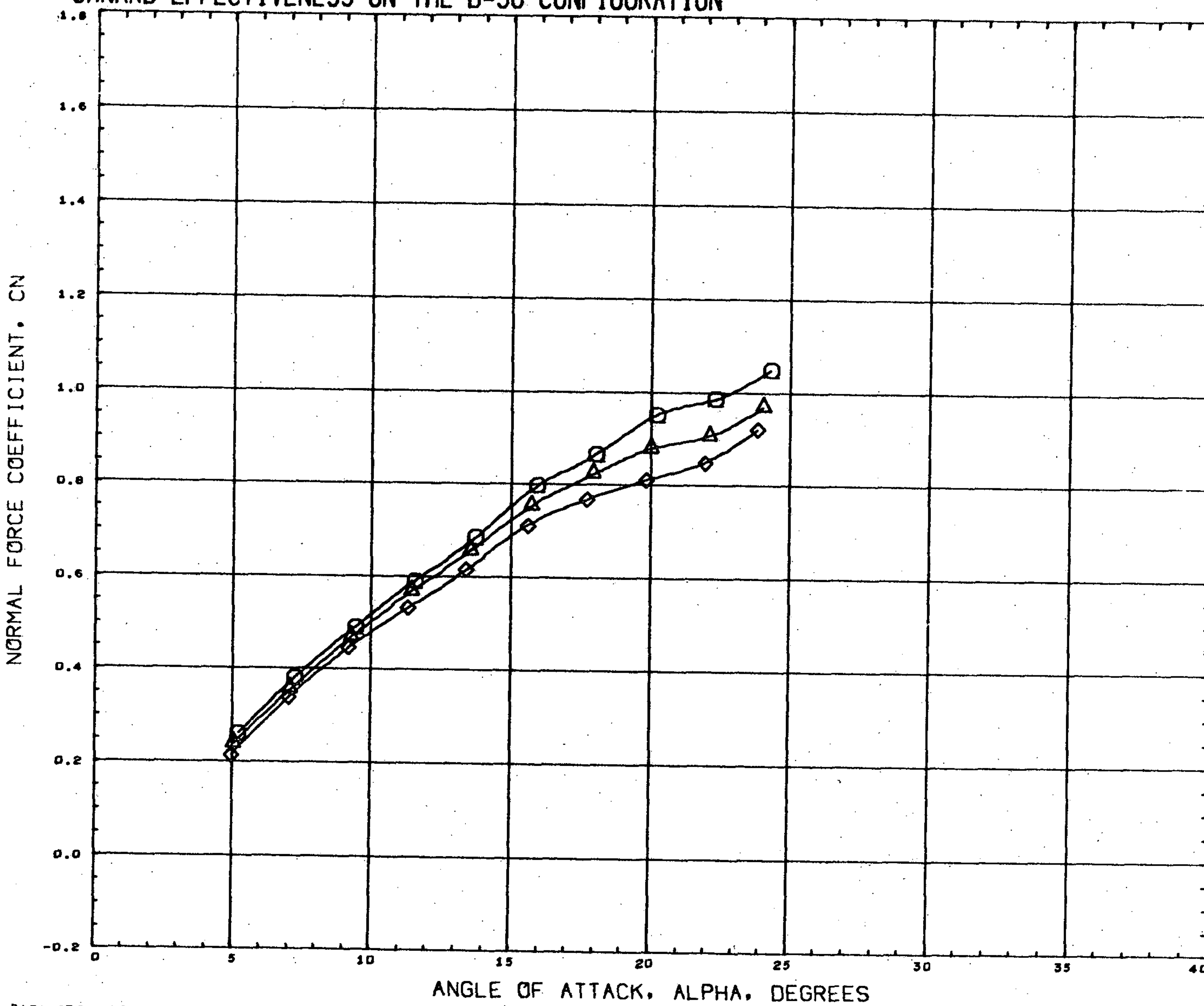


SYMBOL	MACH	PARAMETRIC VALUES			
O	0.897	BETA	0.000	ELEVON	0.000
Δ	0.994	CANARD	- 30.000	RUDDER	0.000
◇	1.193				
□	1.960				
◺	2.990				
D	4.960	DATA HIST. CODE	*E*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



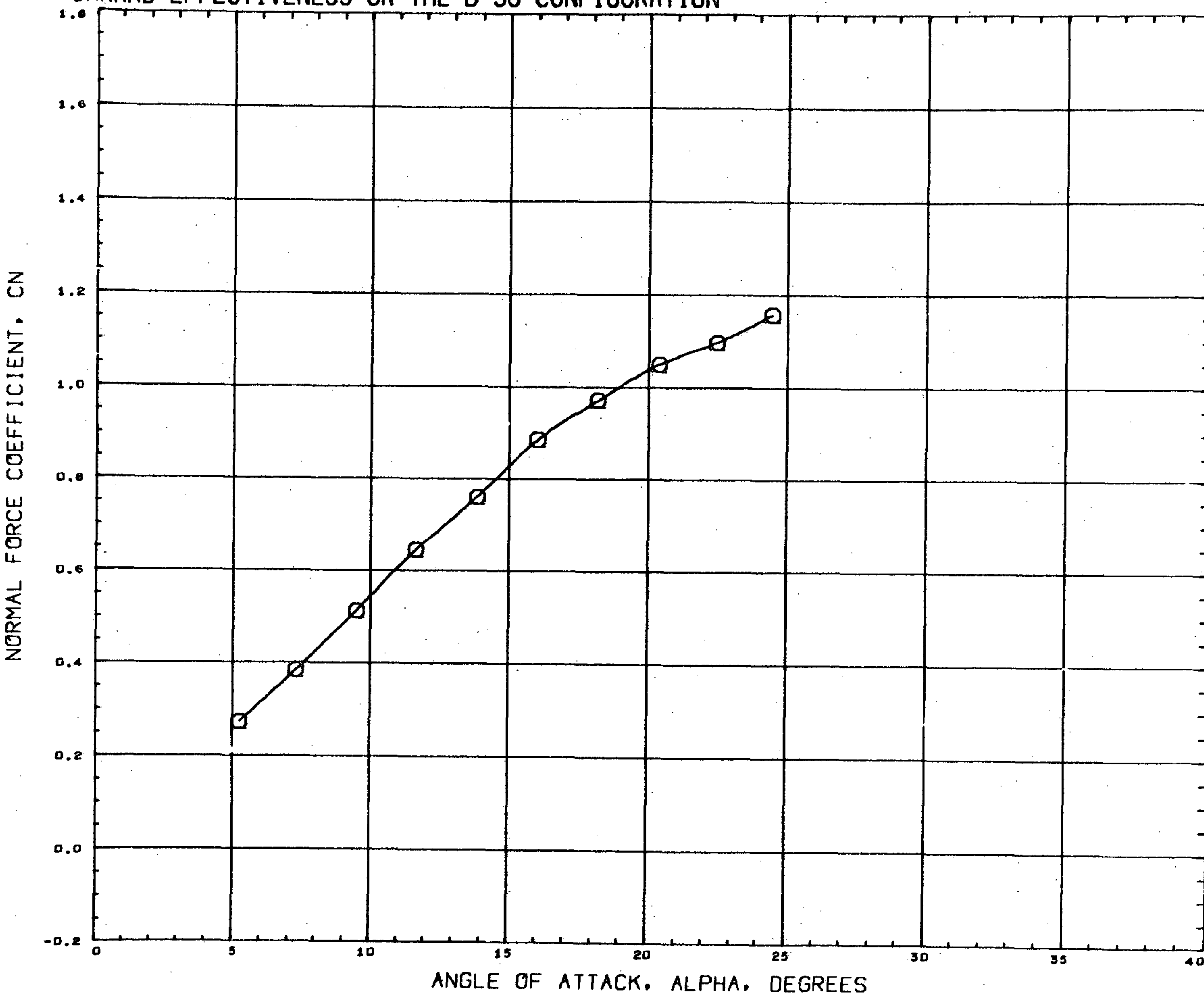
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 0.899

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



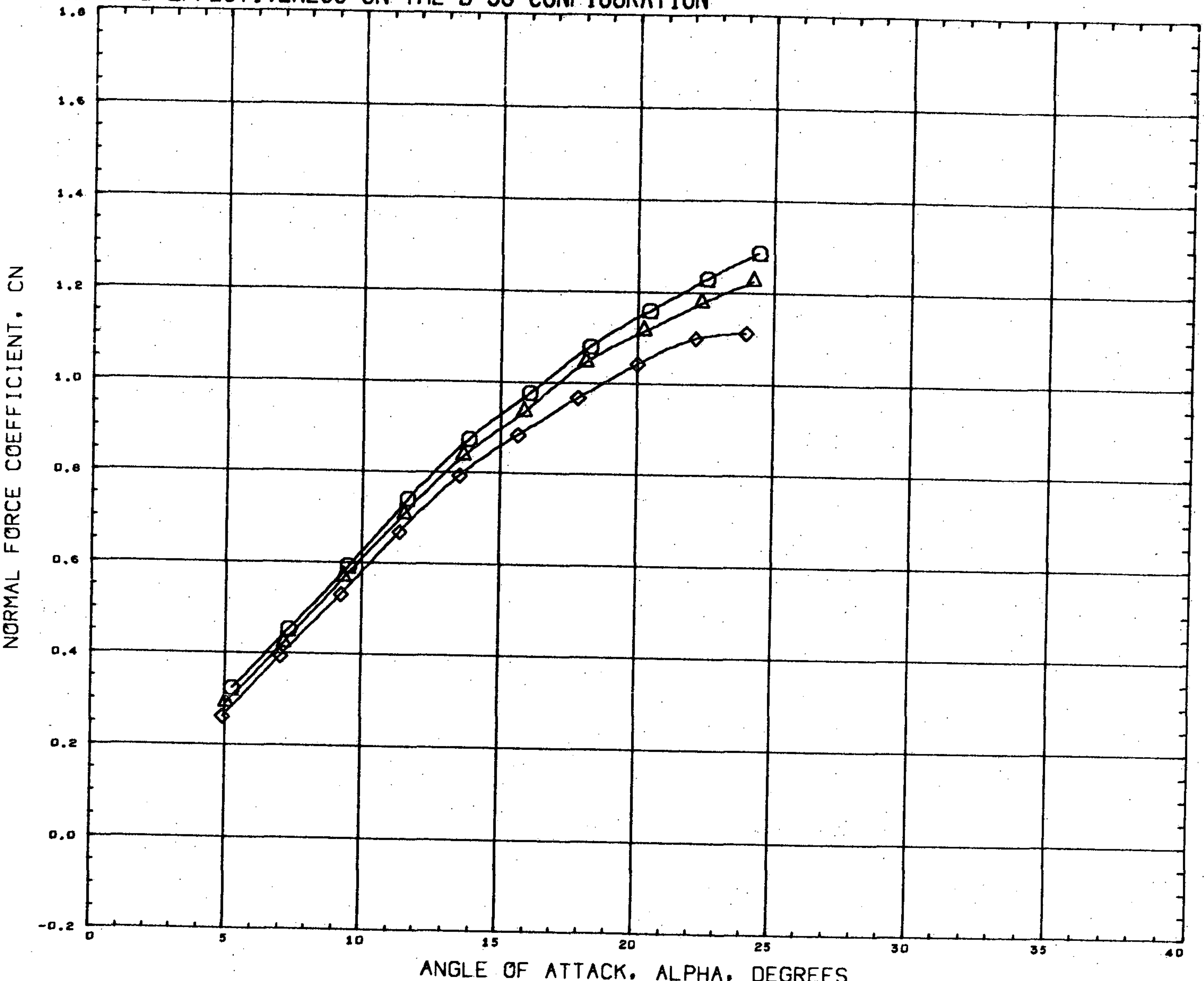
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	-15.000	0.000
(E35CAB)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	-30.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.961

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



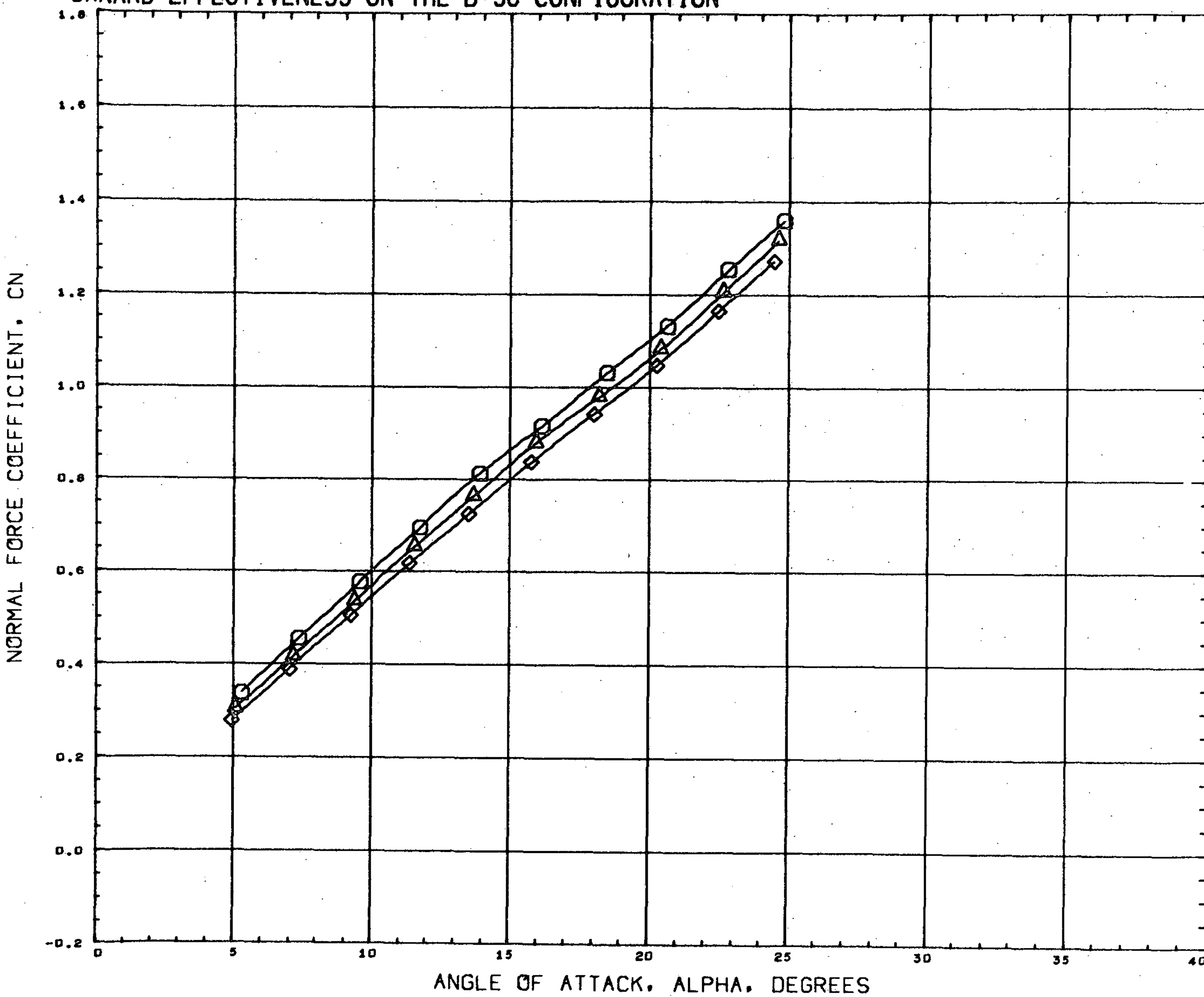
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 1.002

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



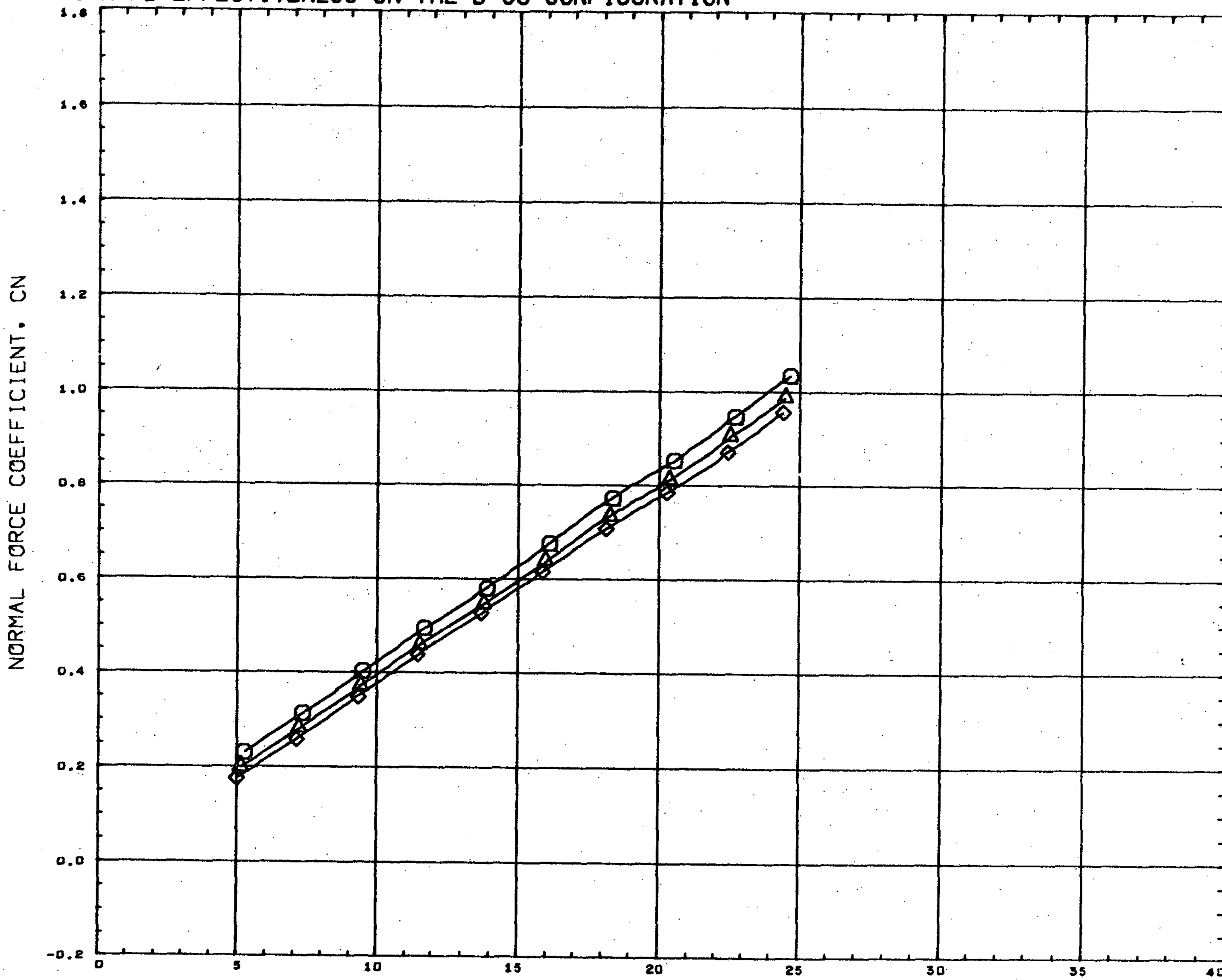
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 1.194

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION

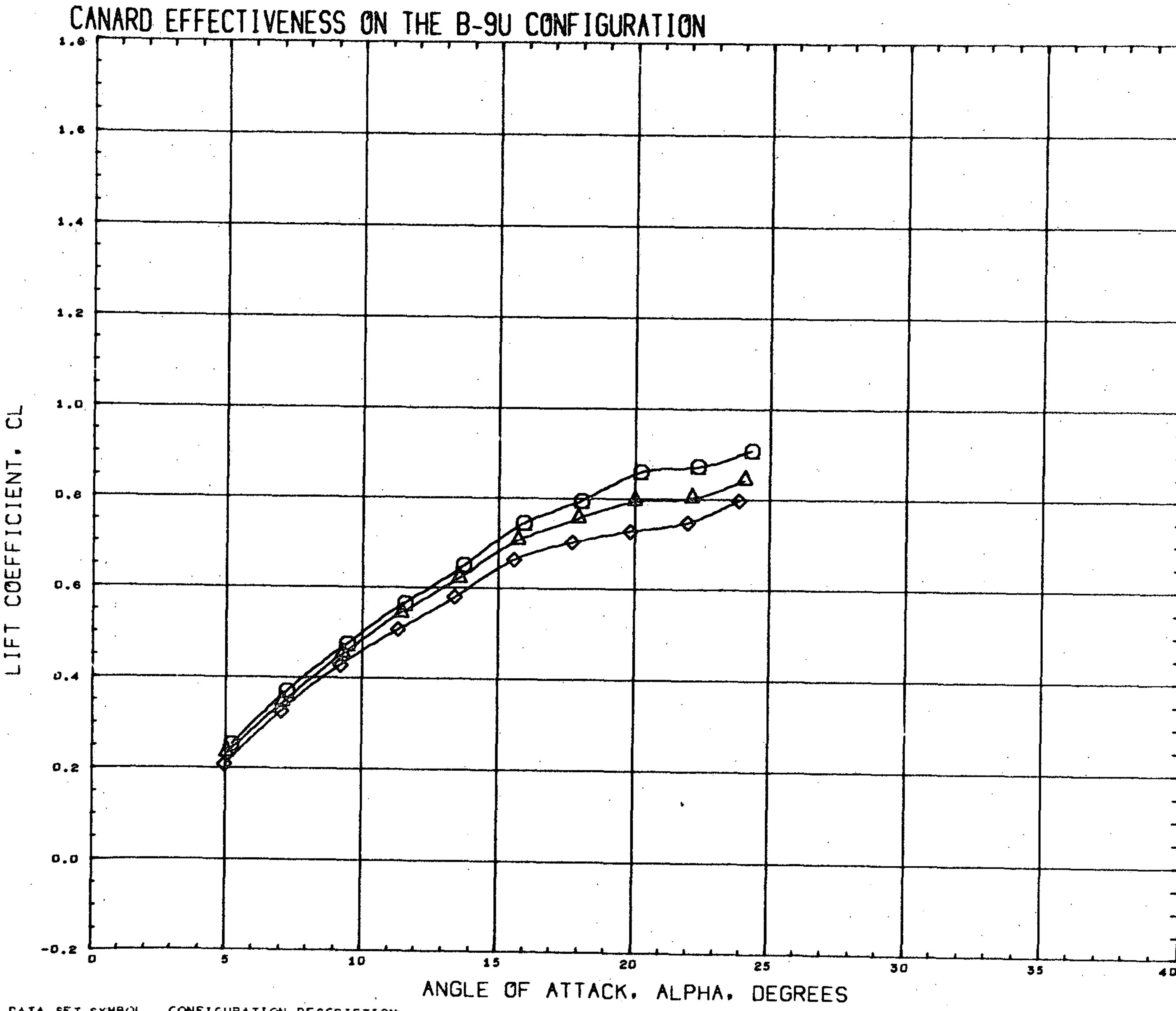


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 1.953

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	



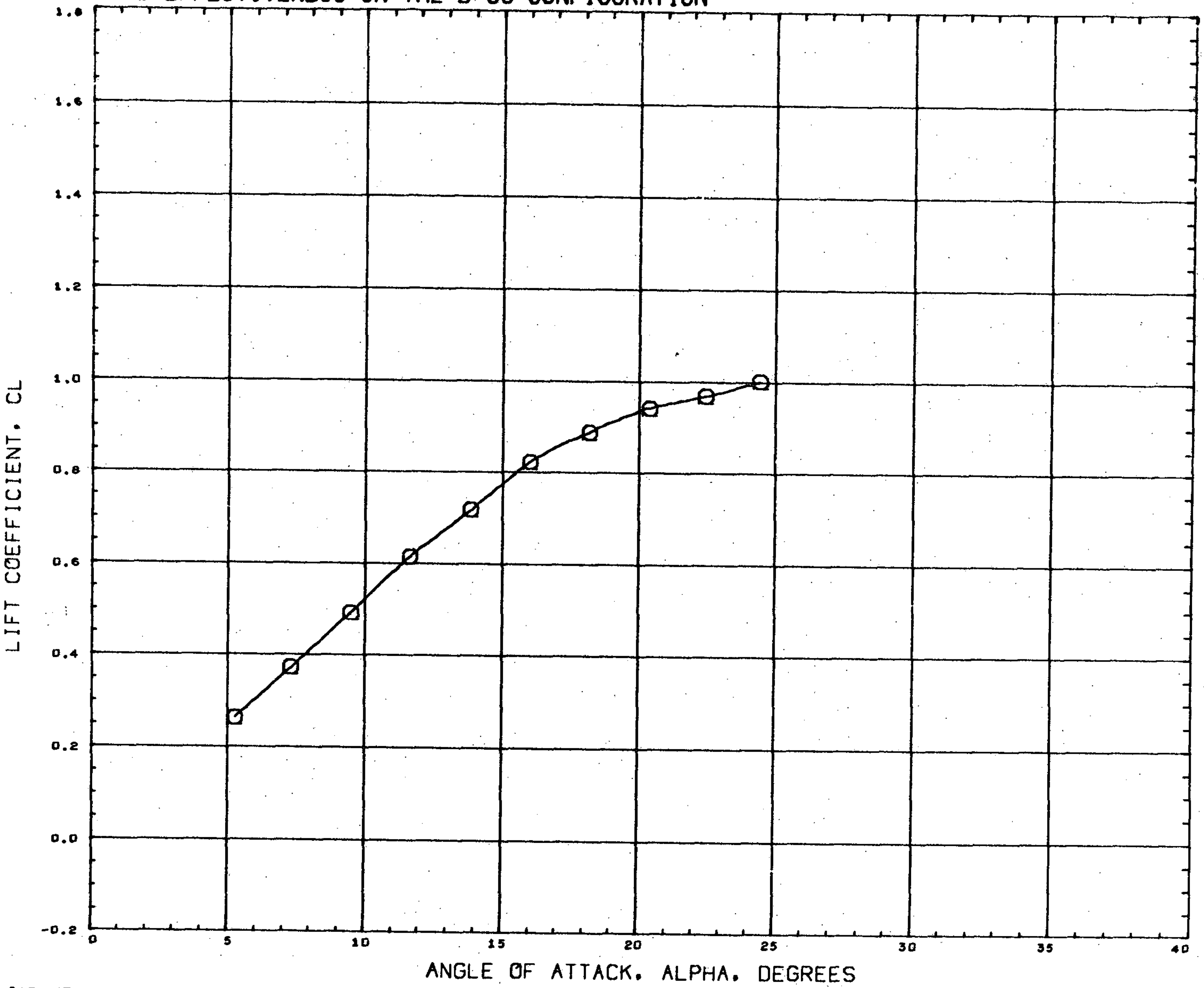
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 0.899

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



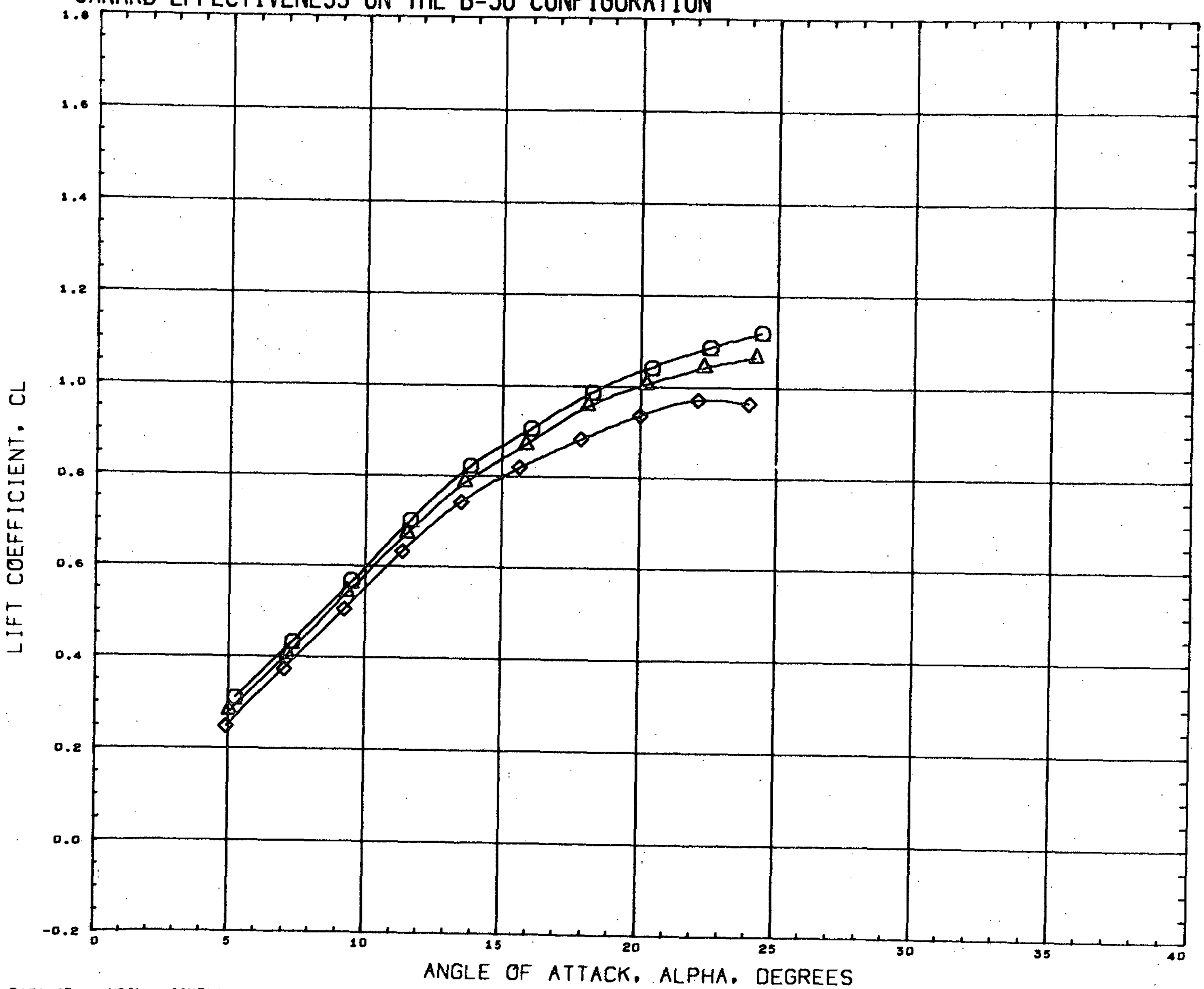
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	-15.000	0.000
(E35CAB)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	-30.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.961

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION

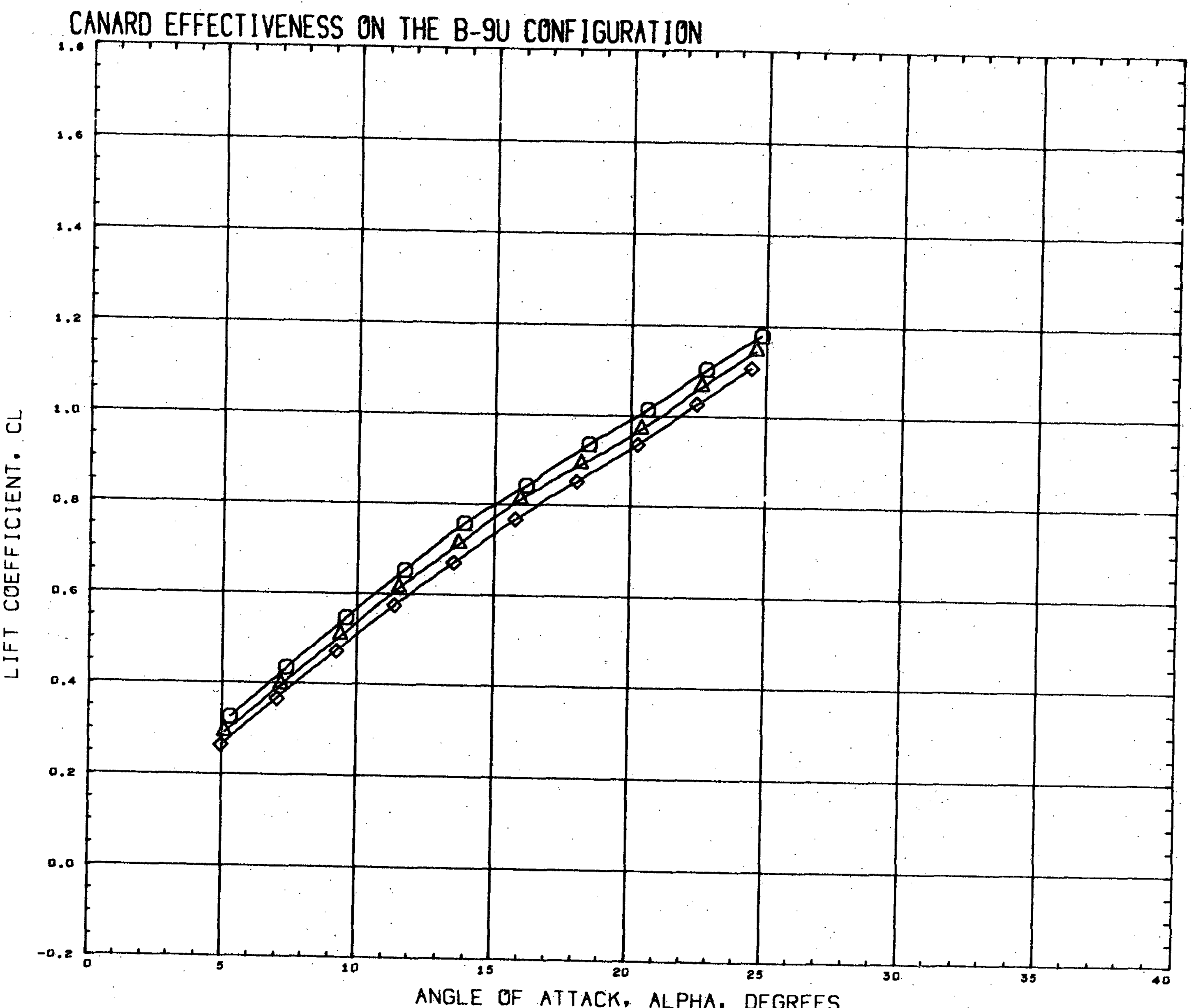


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.002



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
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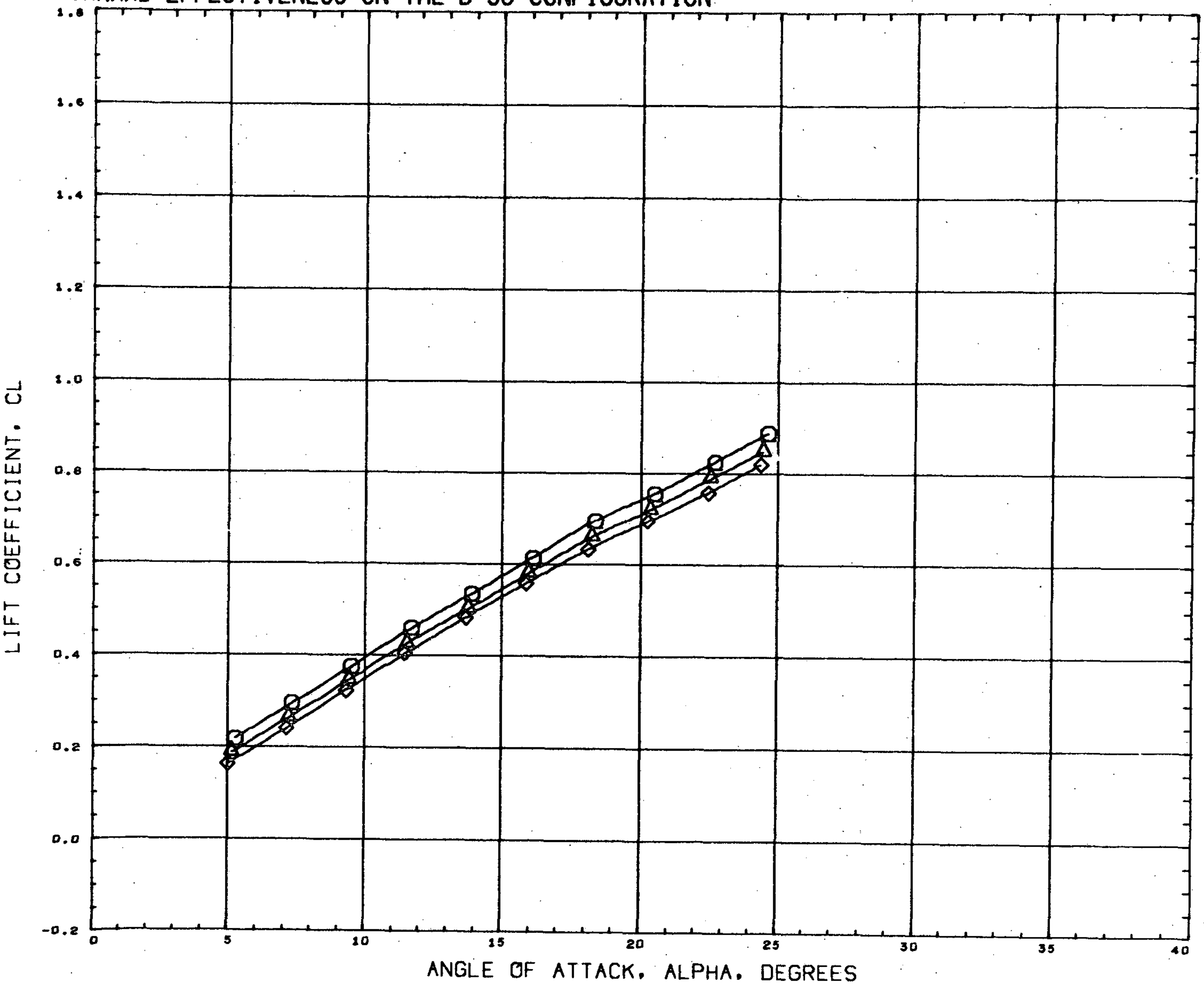
(D35CAA)	△	MSFC TWT-493 GD/C B25W19C8V1D E=0 C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V1D E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 1.194

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
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(E35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 1.953

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
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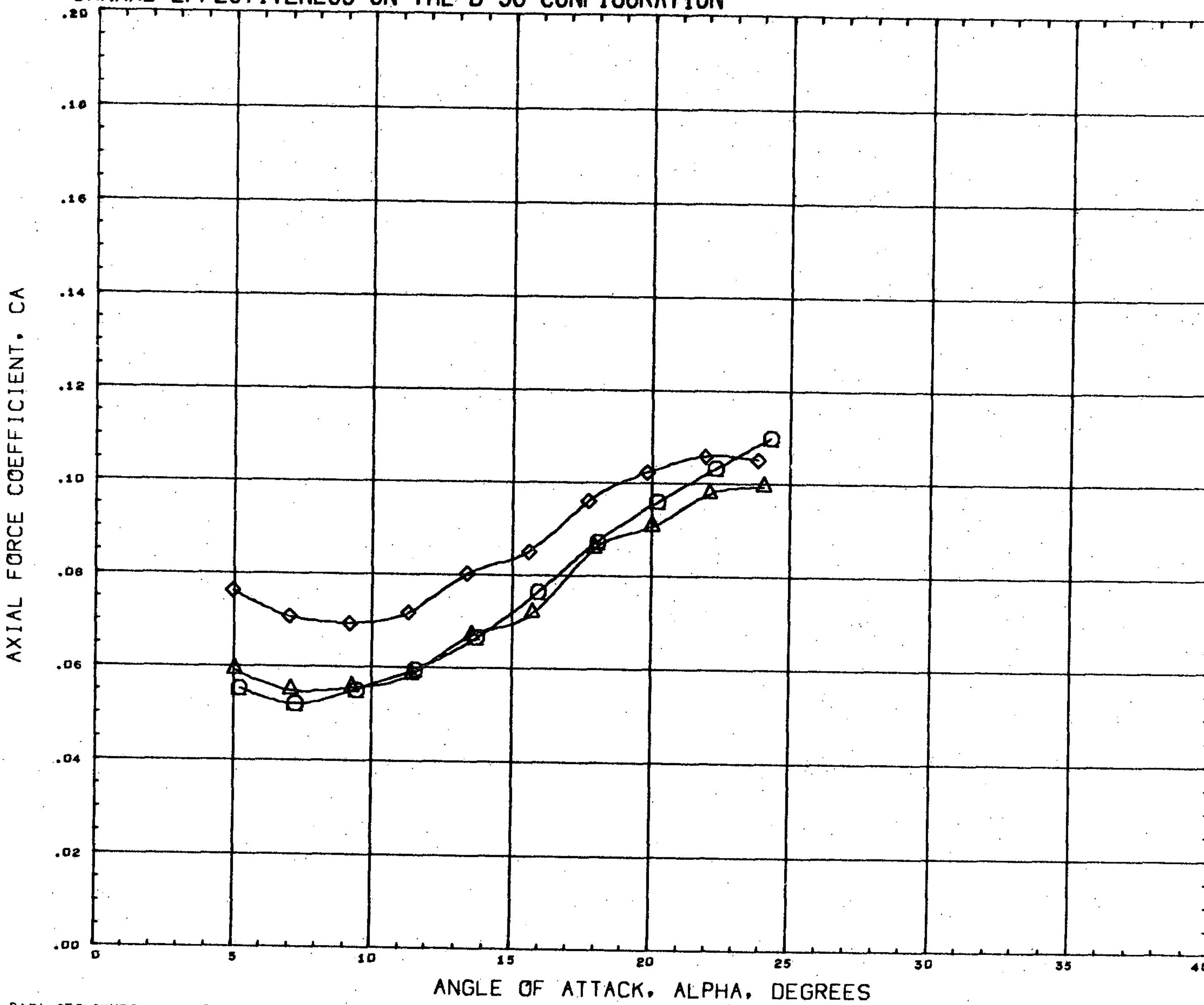
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
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(D35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 0.899

REFERENCE INFORMATION

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BREF	6.0180	IN.
XMRP	7.2990	IN.
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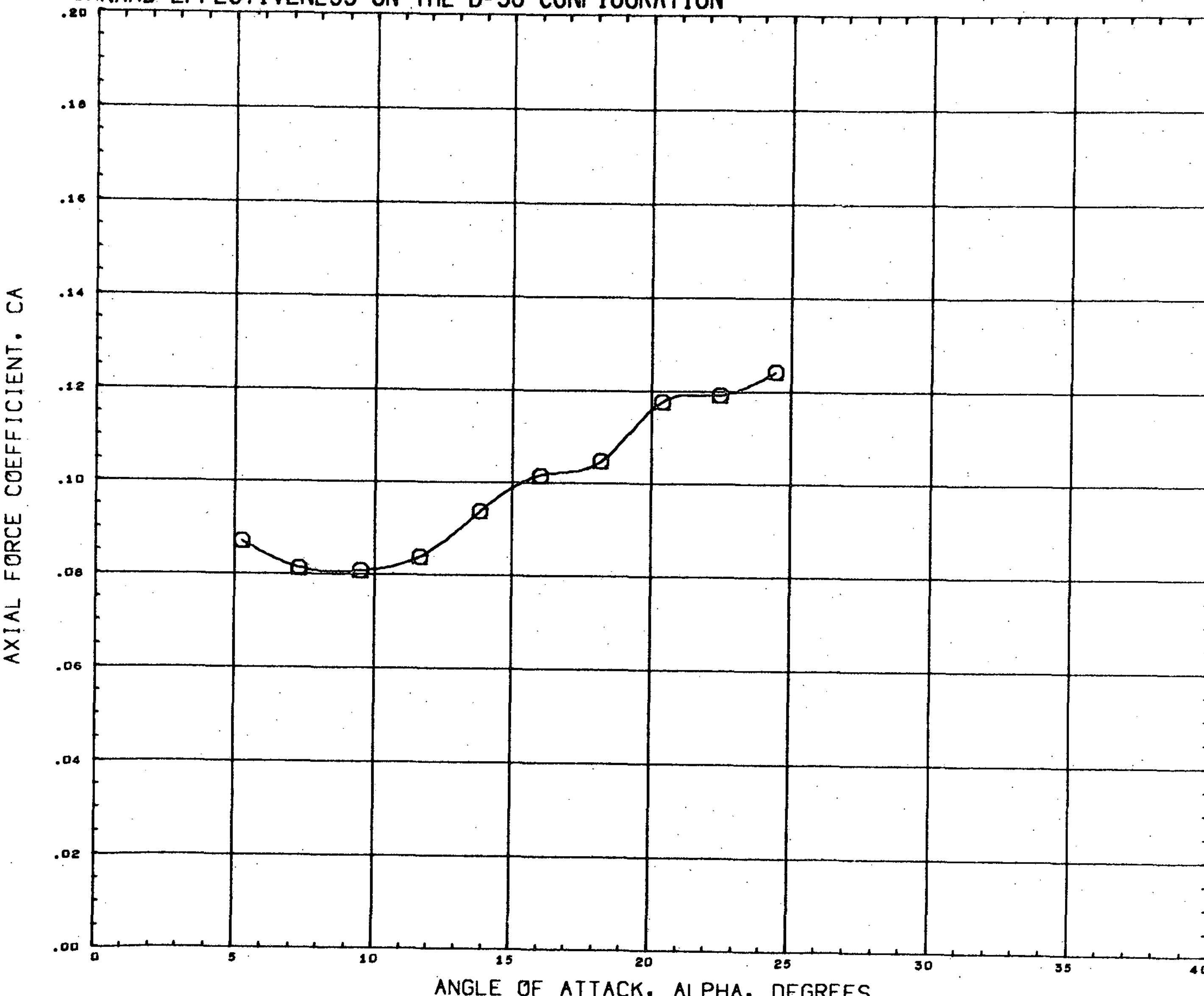
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



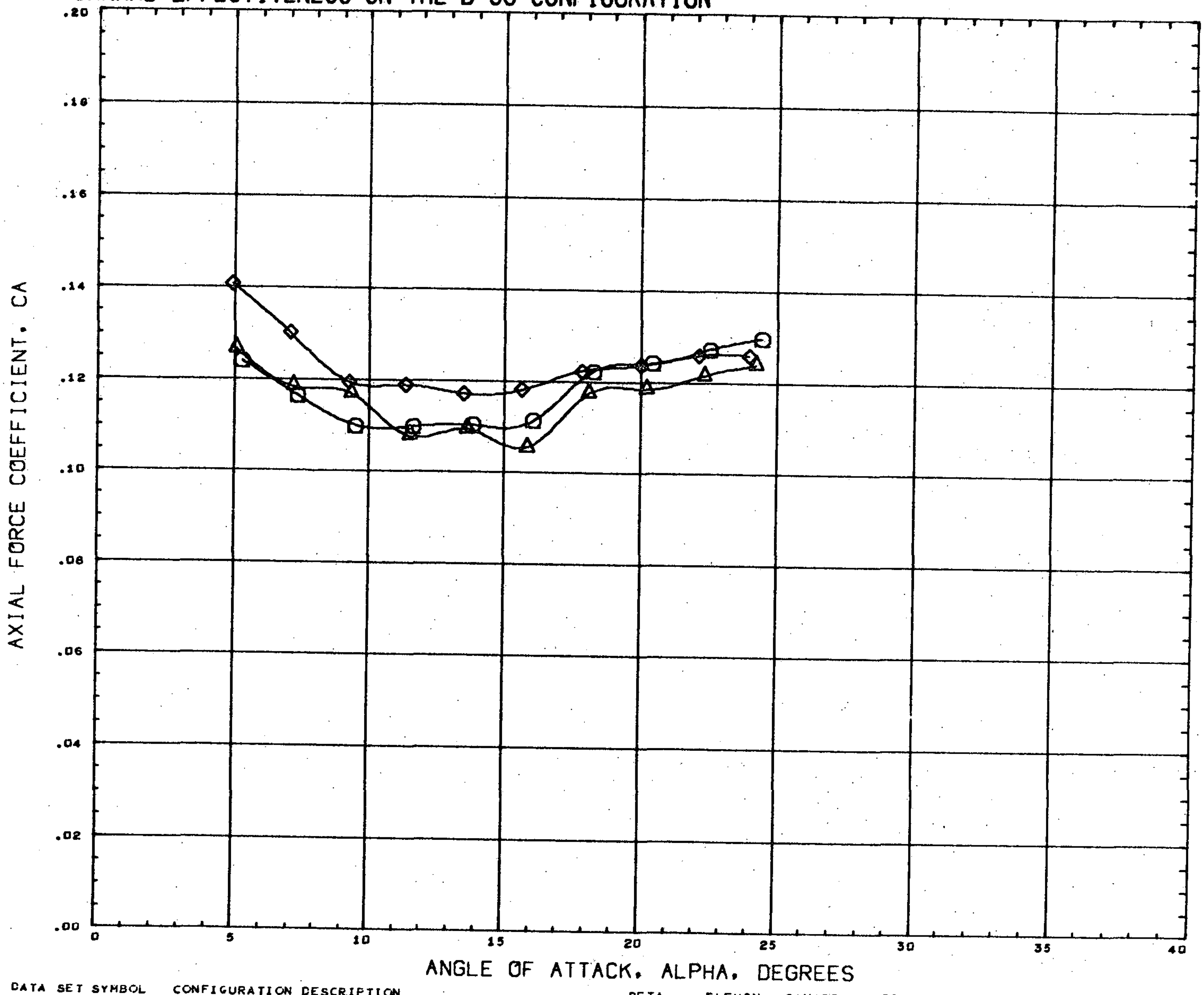
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	-15.000	0.000
(E35CAB)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	-30.000	0.000

MACH 0.961

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



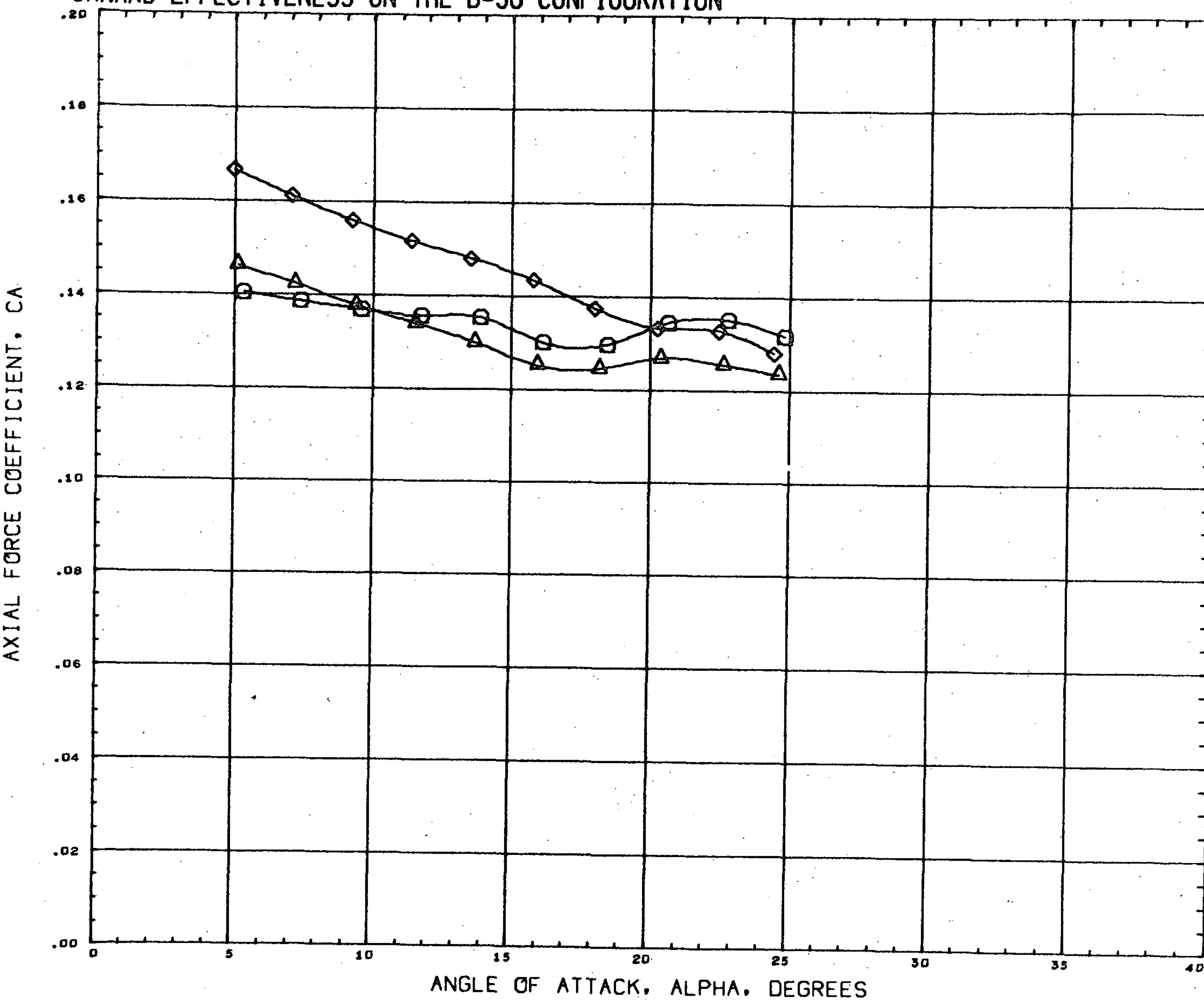
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 1.002

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION

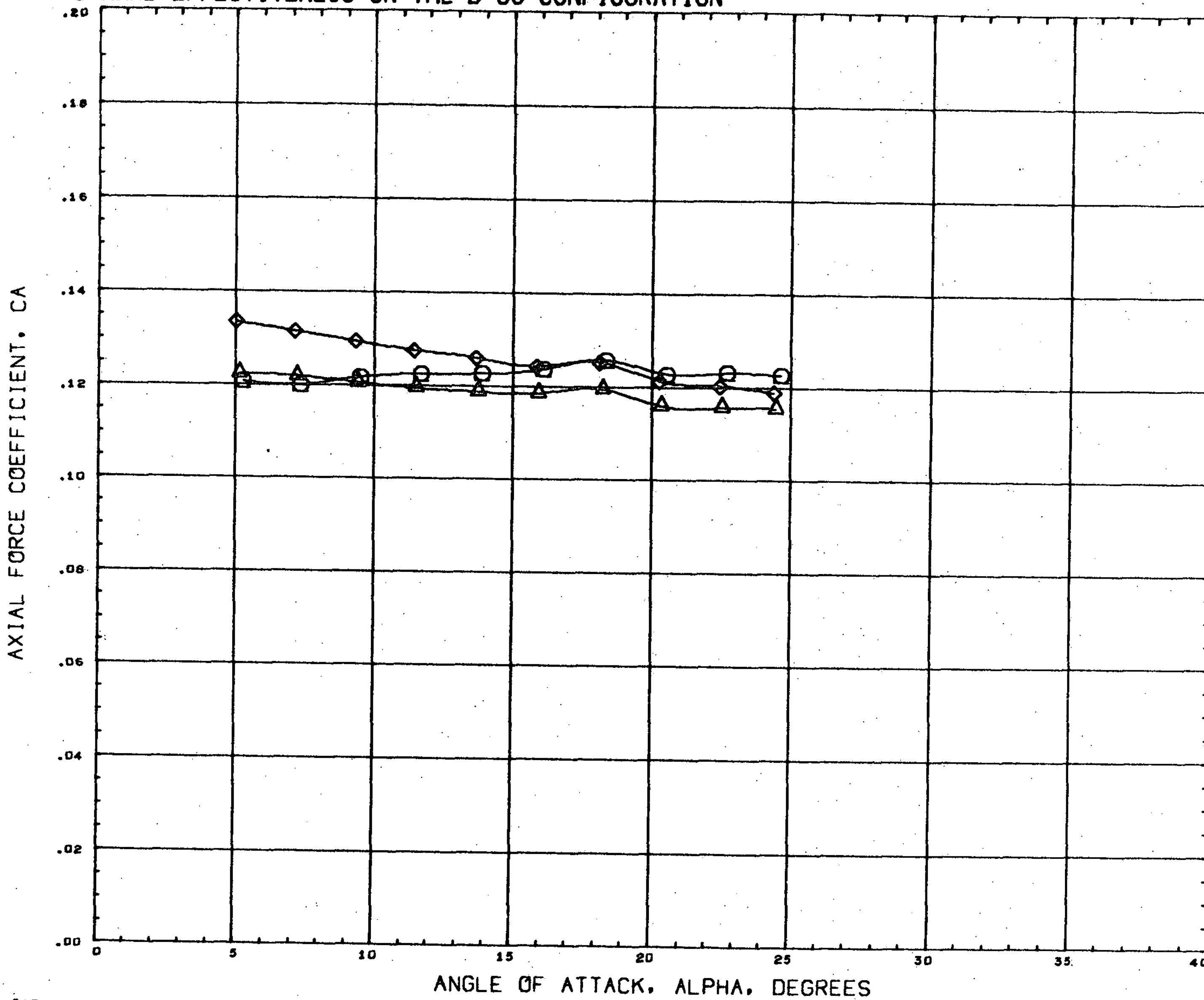


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 1.194

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
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(D35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 1.953

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

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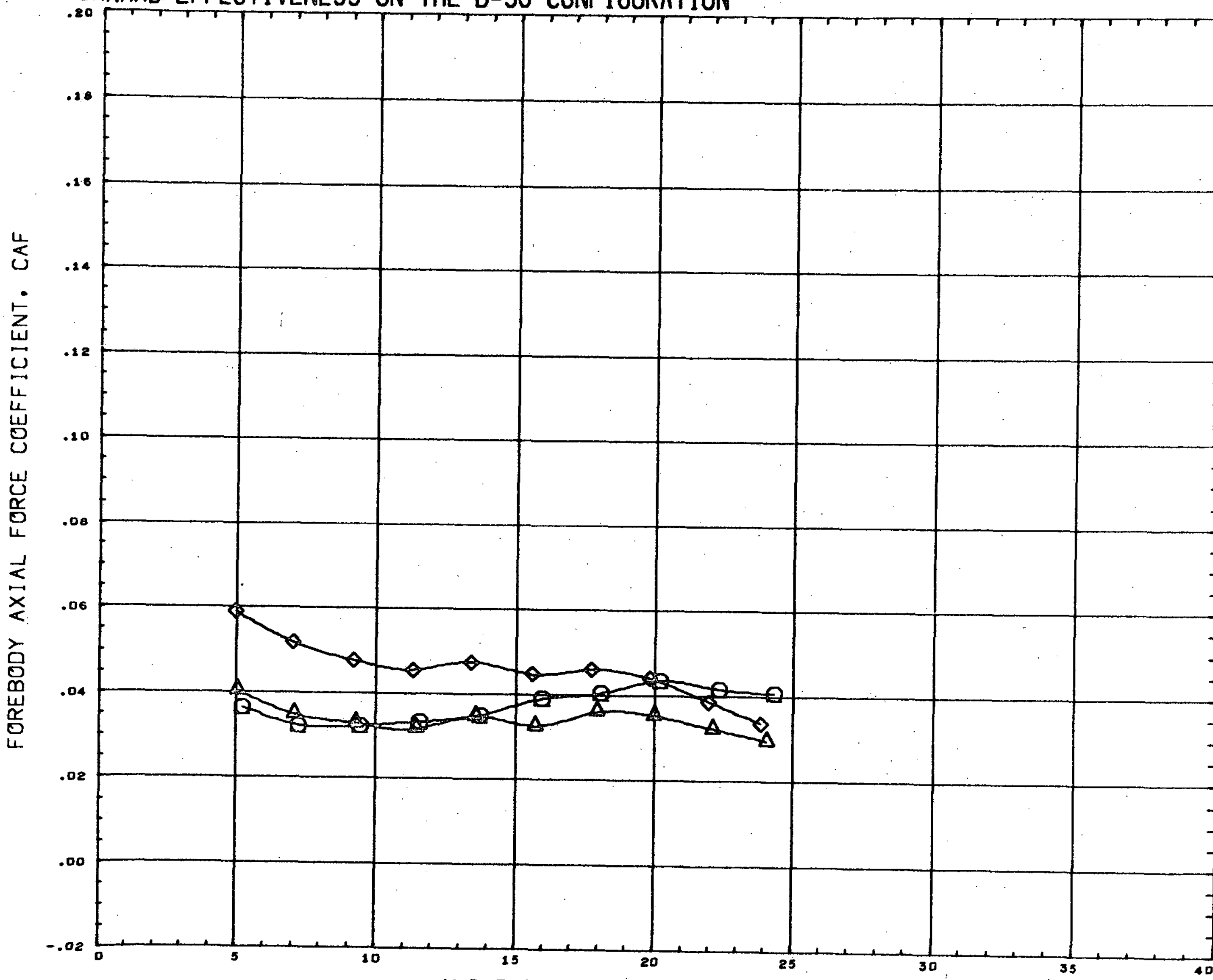
OF POOR QUALITY

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

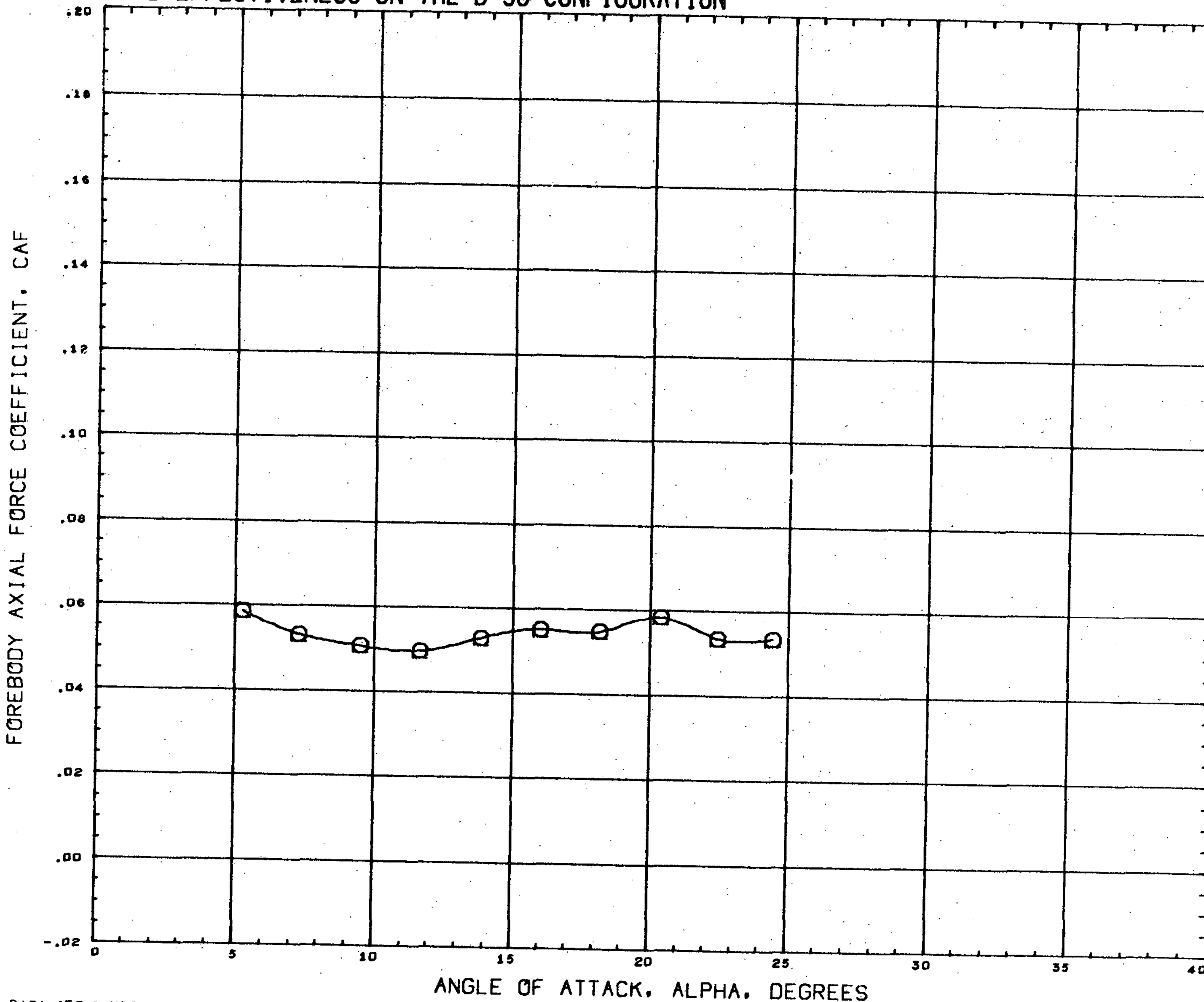
MACH 0.899

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

4

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



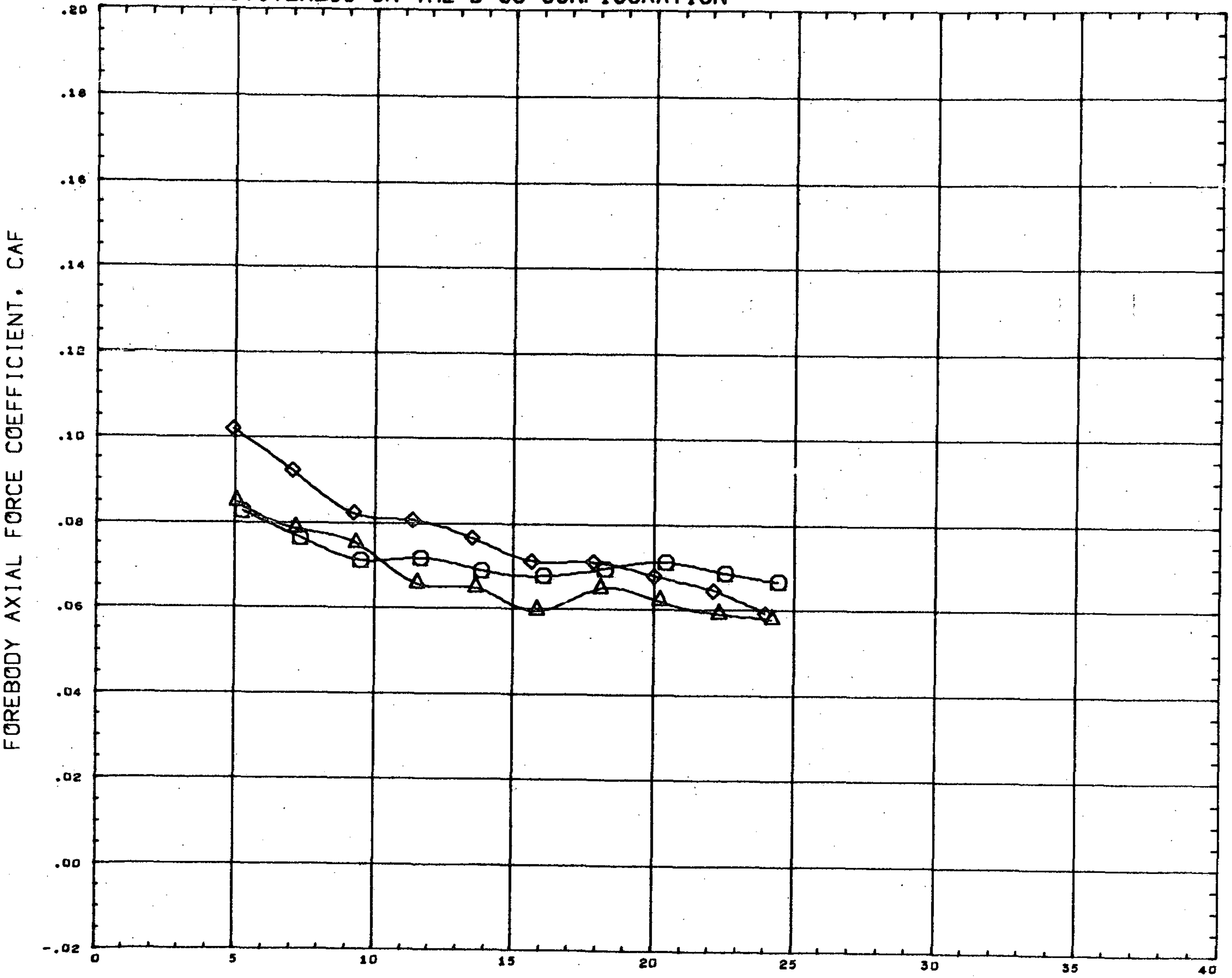
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	-15.000	0.000
(E35CAB)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	-30.000	0.000

MACH 0.961

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



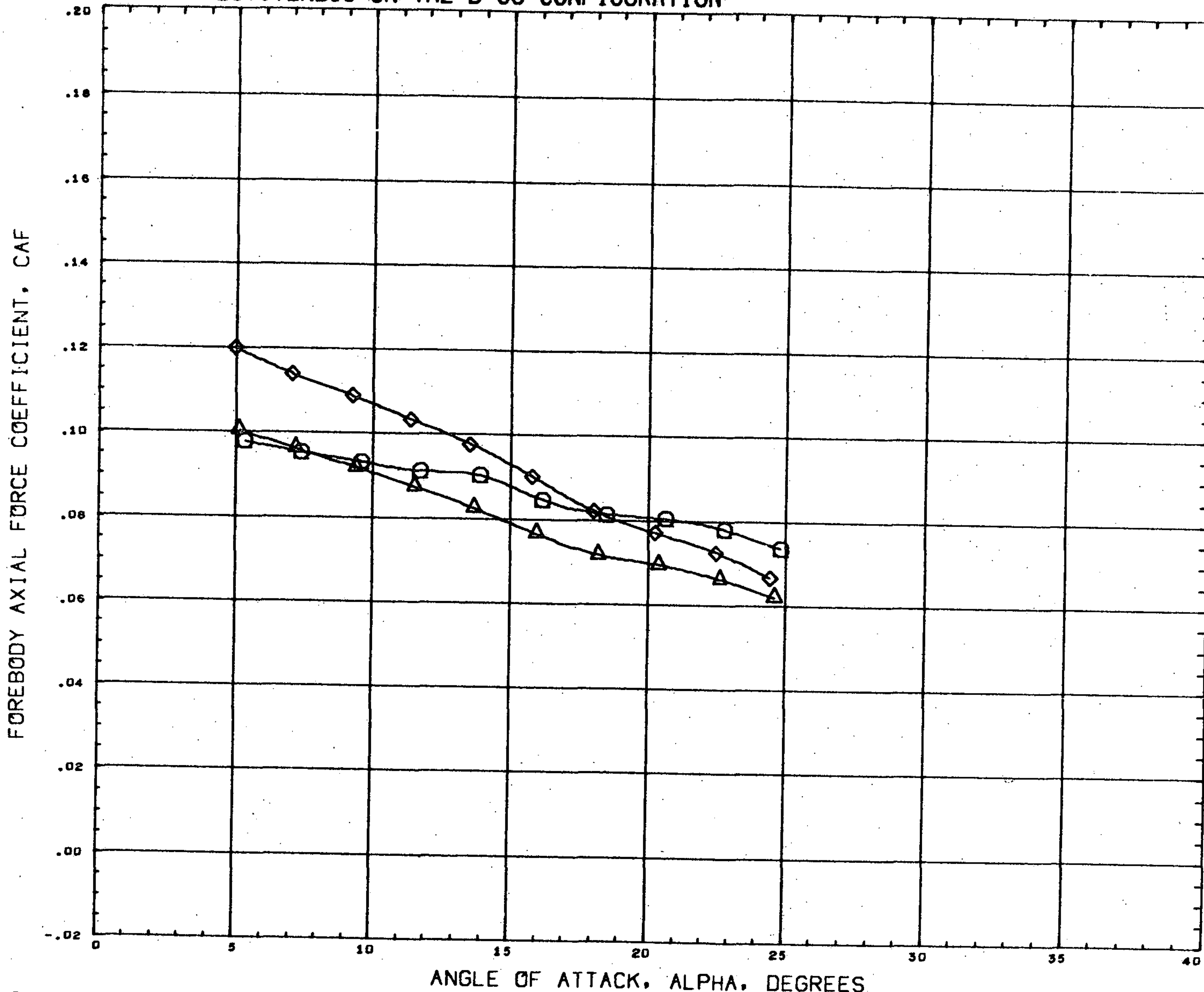
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.002

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION

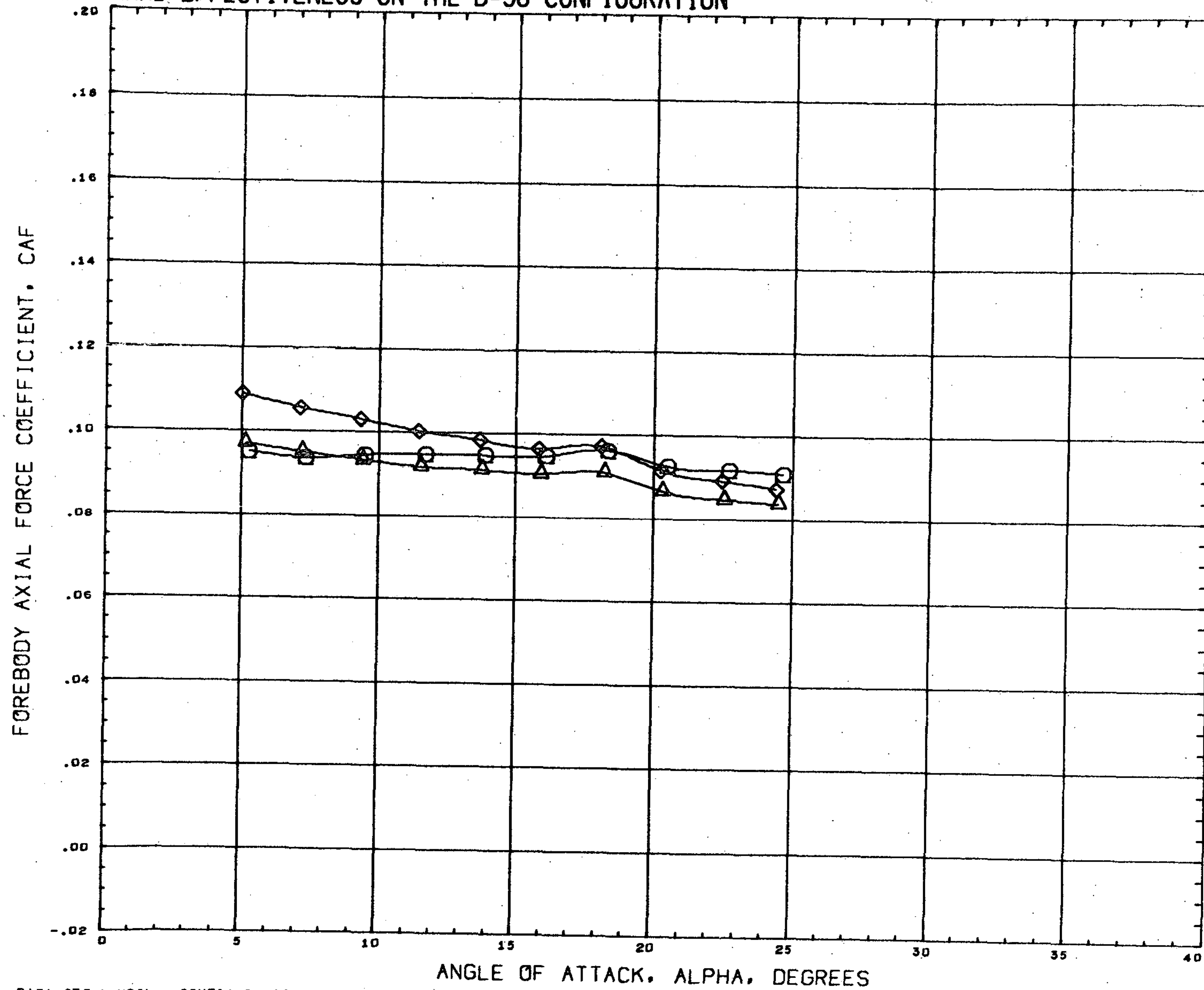


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 1.194

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



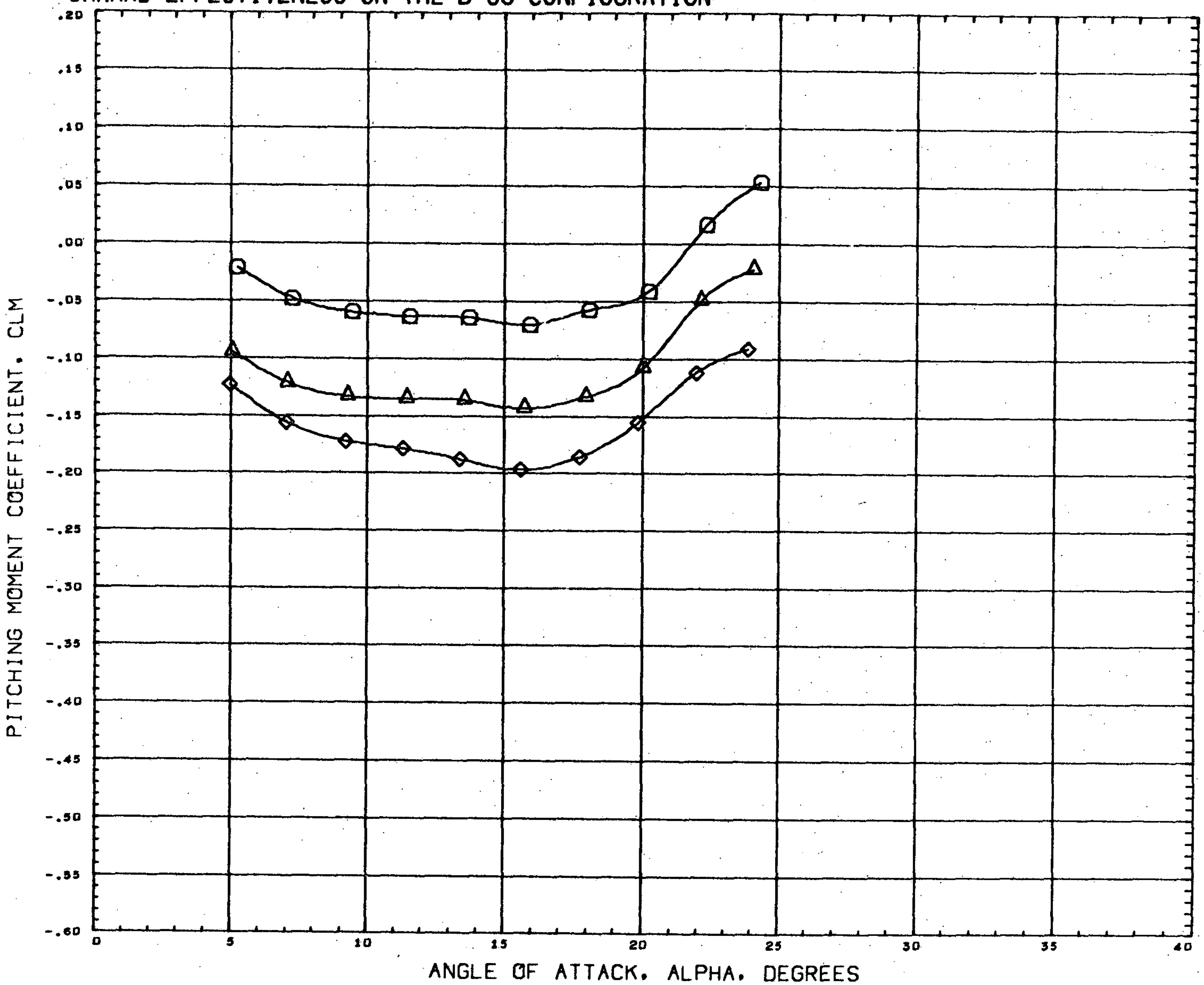
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 1.953

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER	REFERENCE INFORMATION		
(J35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000	SREF	14.9040	SQ.IN.
(D35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000	LREF	3.0120	IN.
(E35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000	BREF	6.0180	IN.
											XMRP	7.2990	IN.
											YMRP	0.0000	IN.
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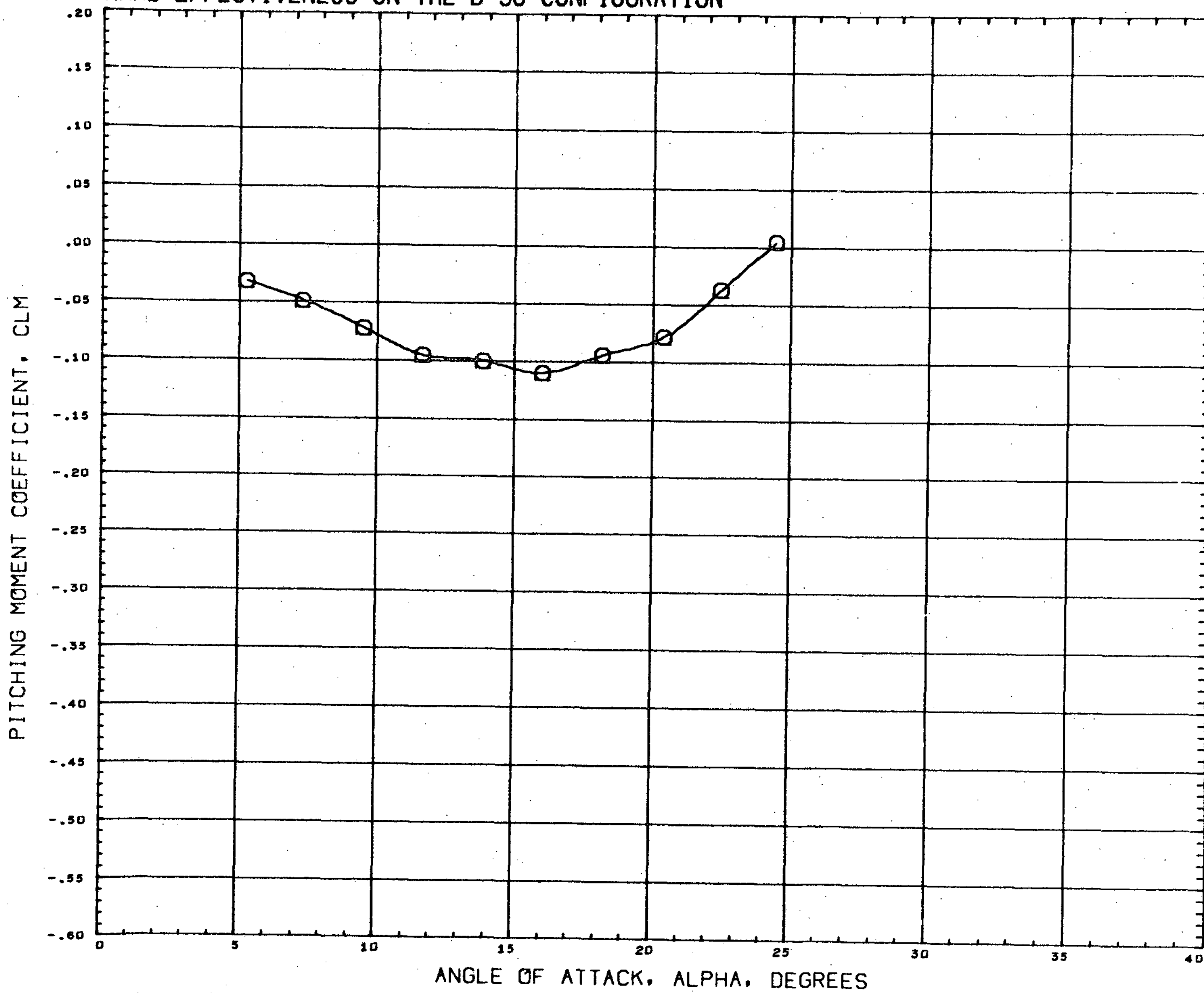
											SCALE	0.0035	

MACH 0.899

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



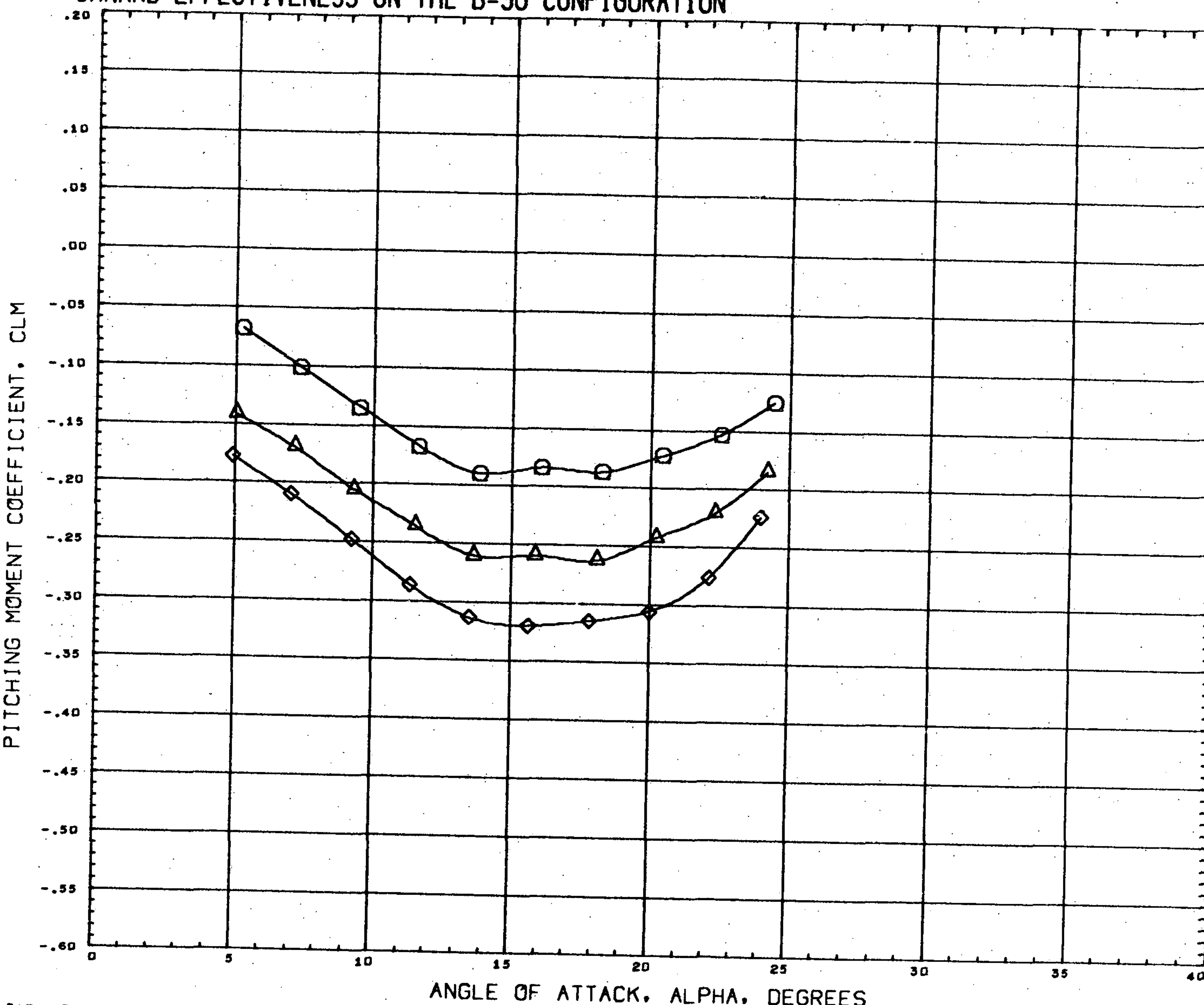
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS				0.000	0.000	-15.000	0.000
(E35CAB)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS				0.000	0.000	-30.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.961

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION

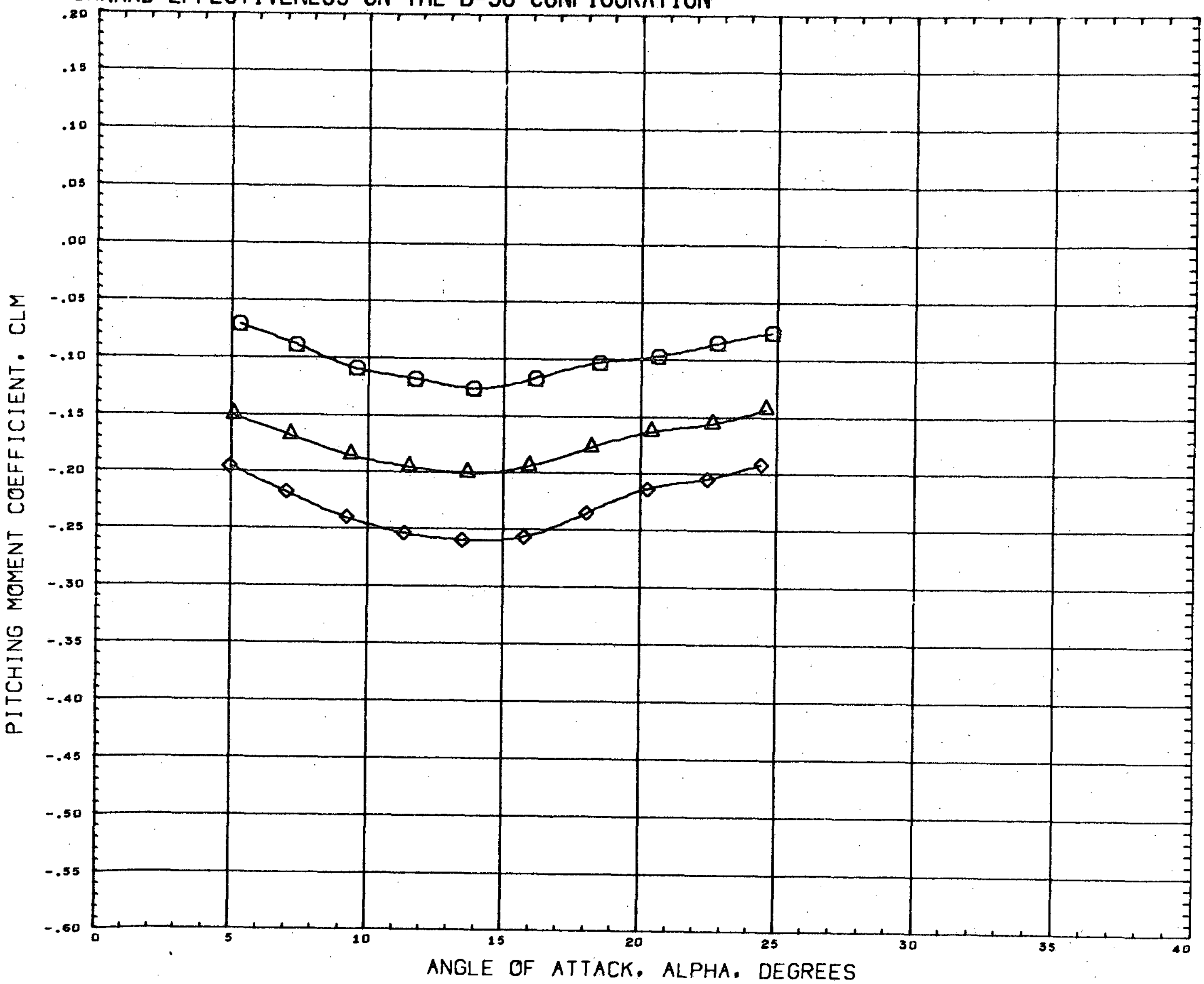


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.002

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



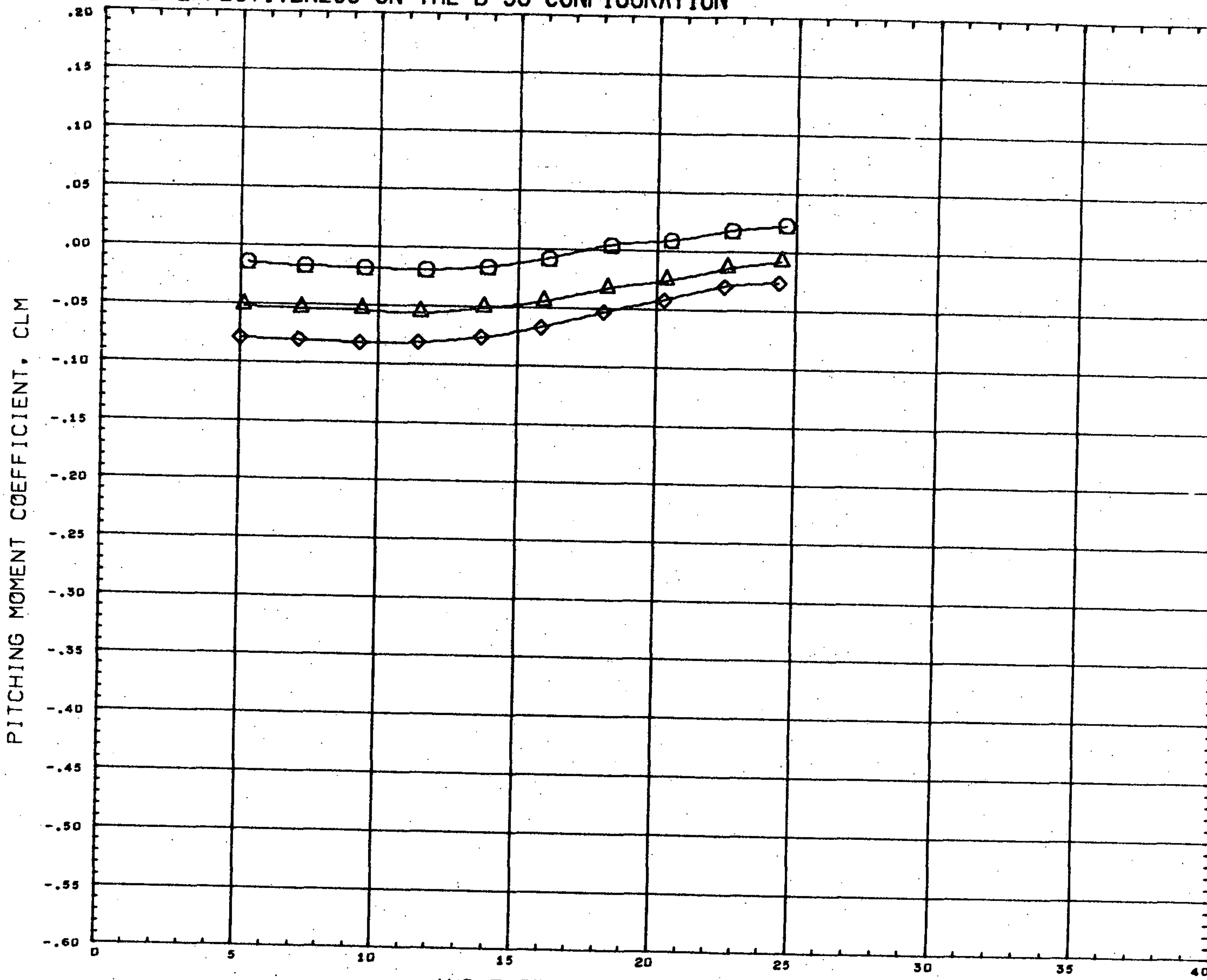
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 1.194

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 1.953

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
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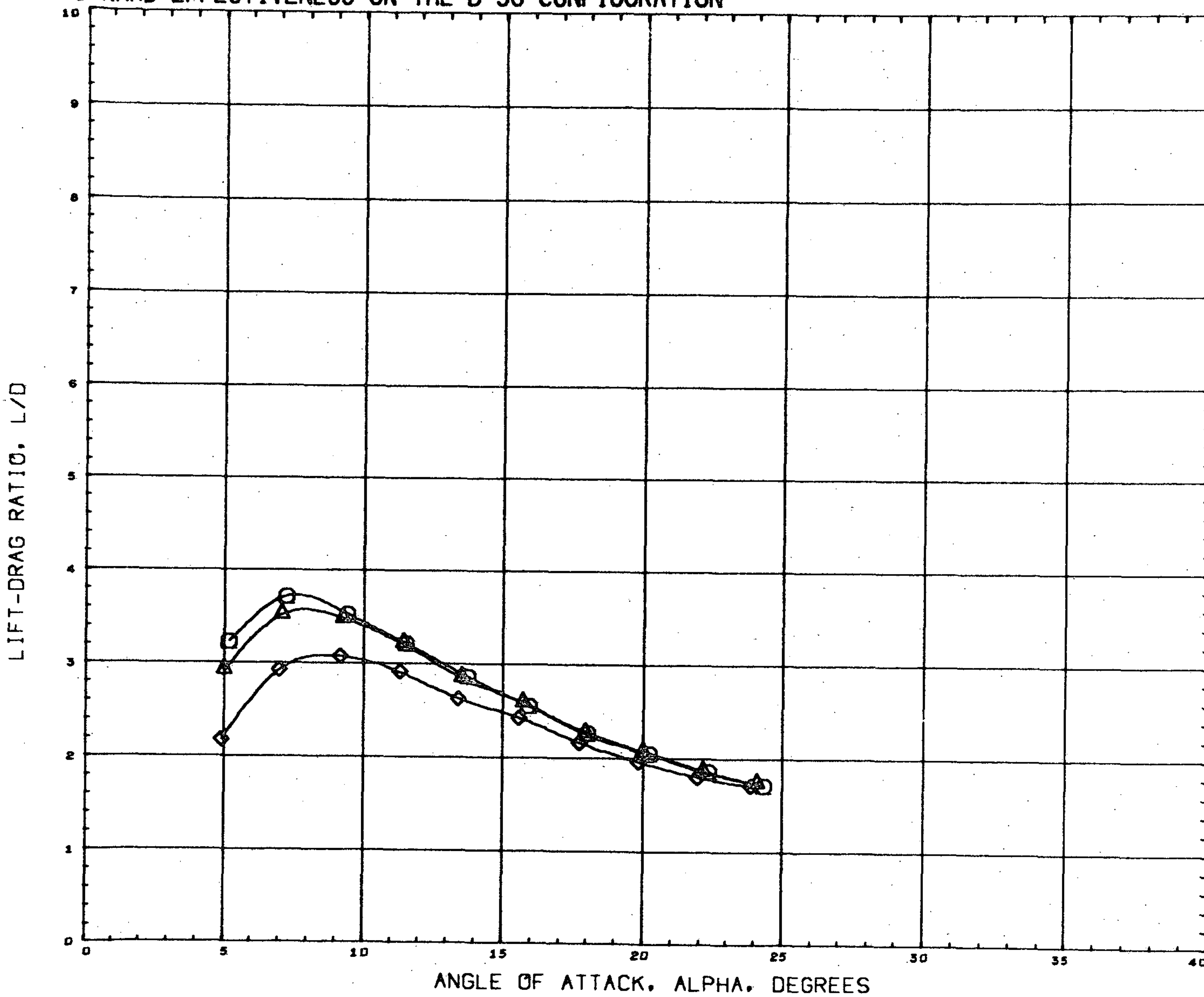
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



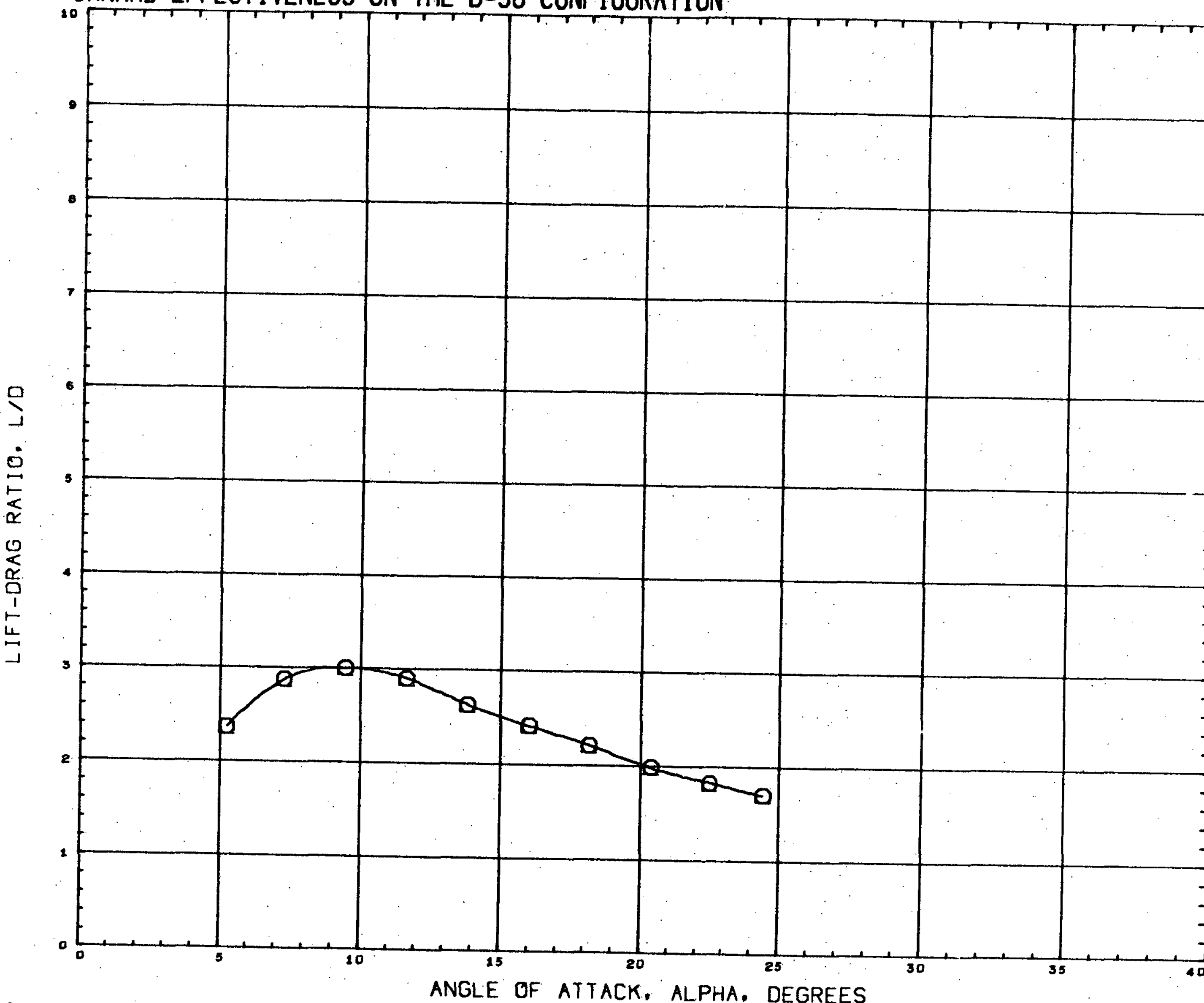
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 0.899

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION

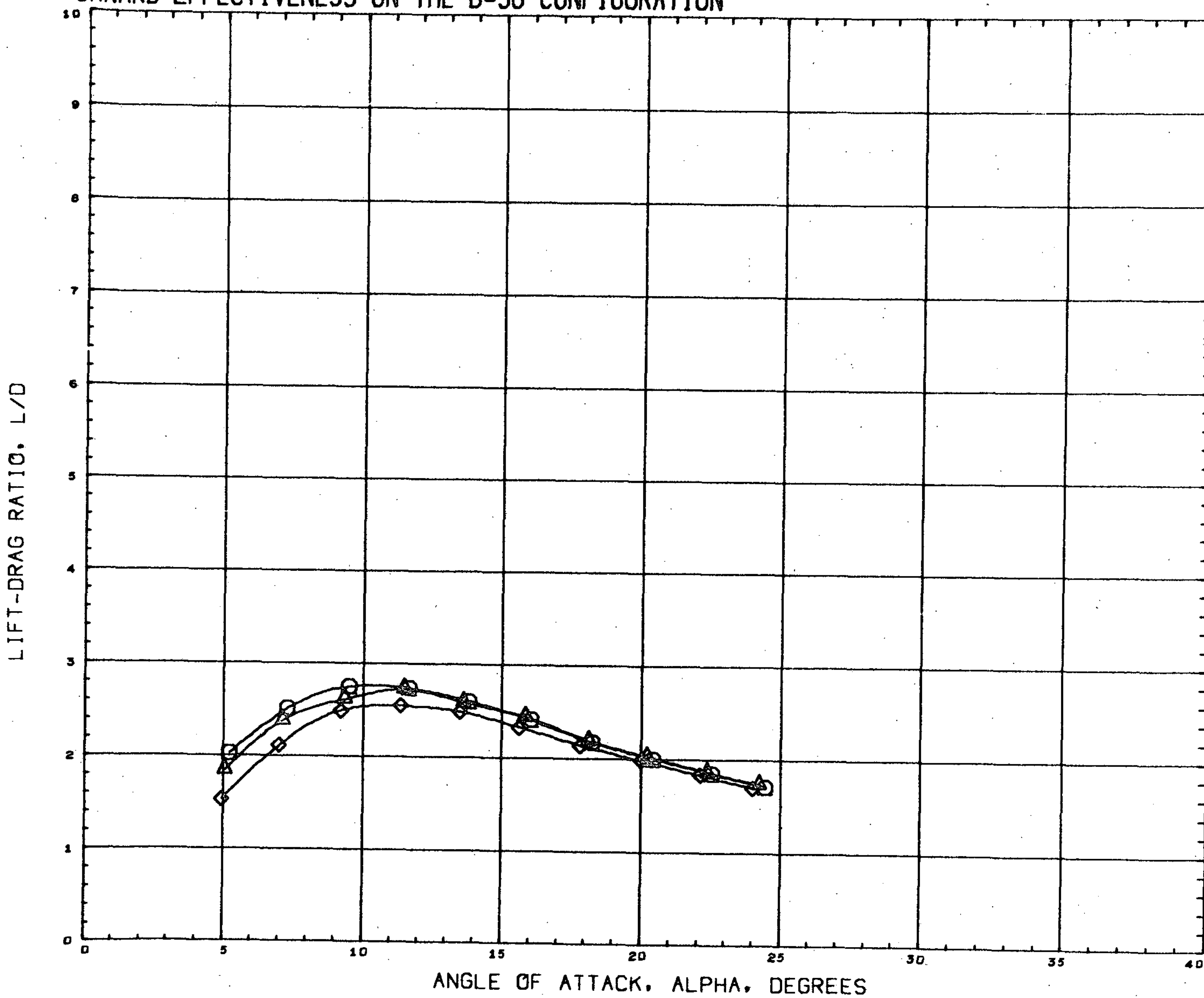


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	-15.000	0.000
(E35CAB)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	-30.000	0.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.961

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



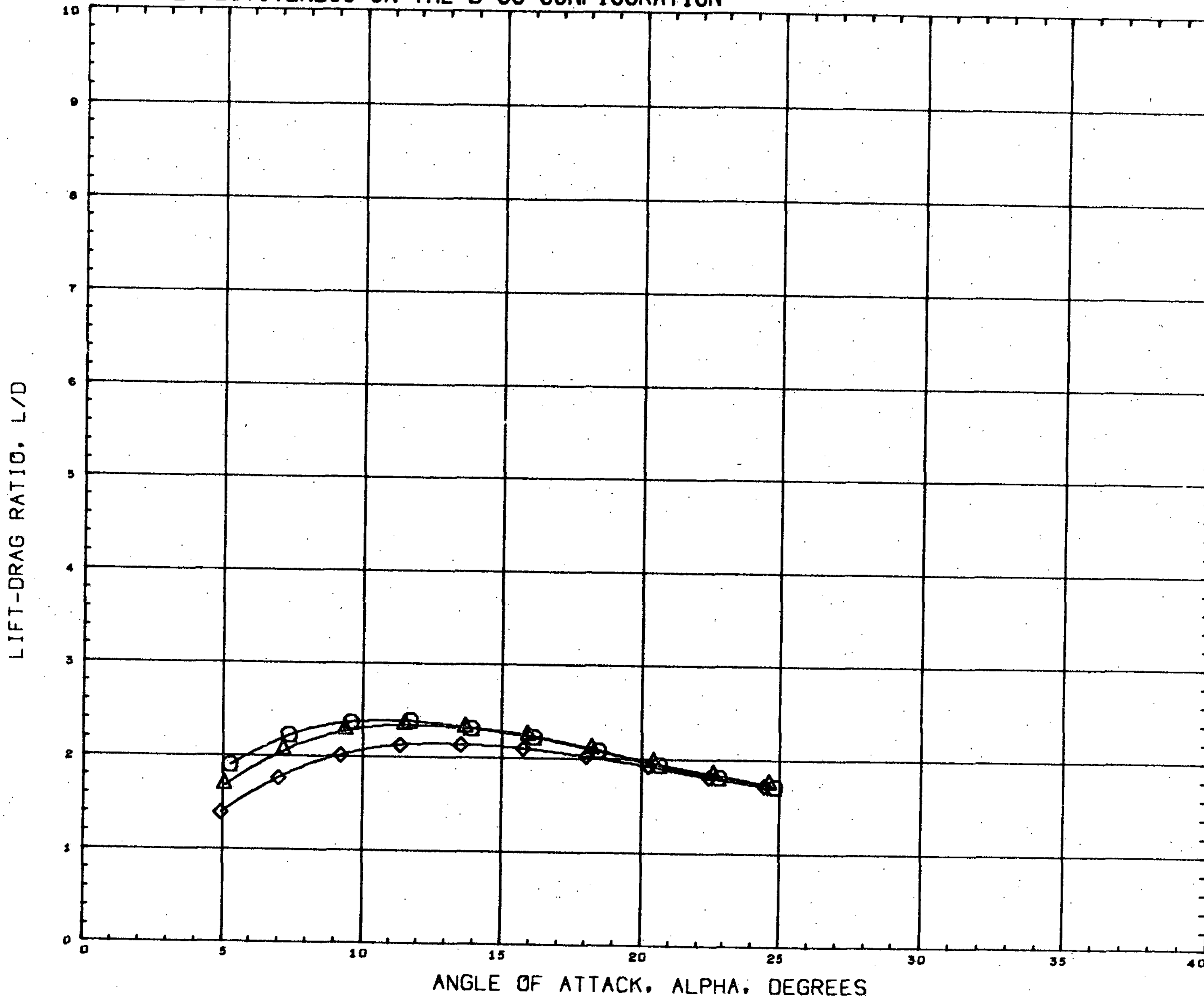
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 1.002

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
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(D35CAA)	△	MSFC TWT-493 GD/C B25W19C8V1D E=0 C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V1D E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 1.194

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
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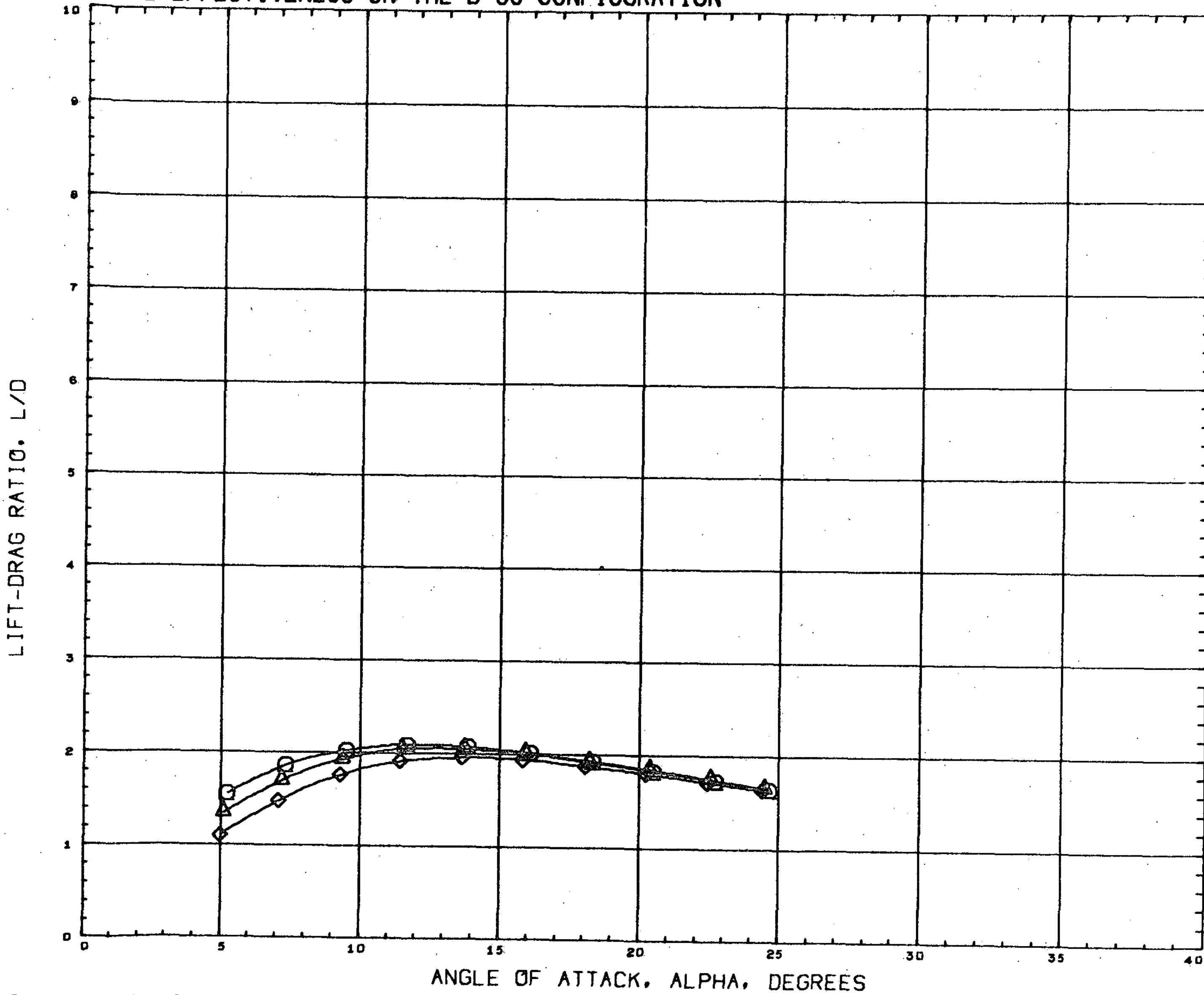
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION

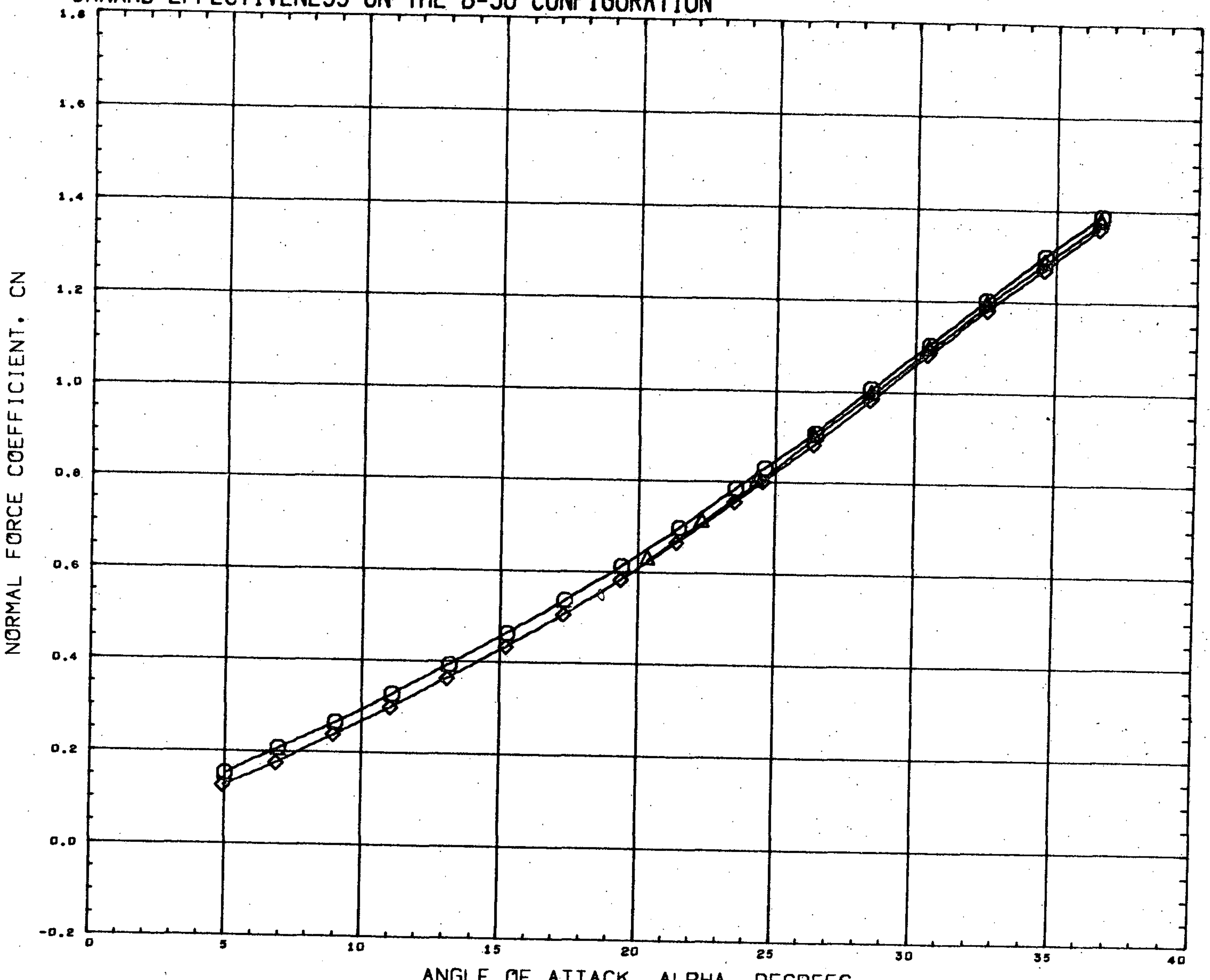


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.953

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION

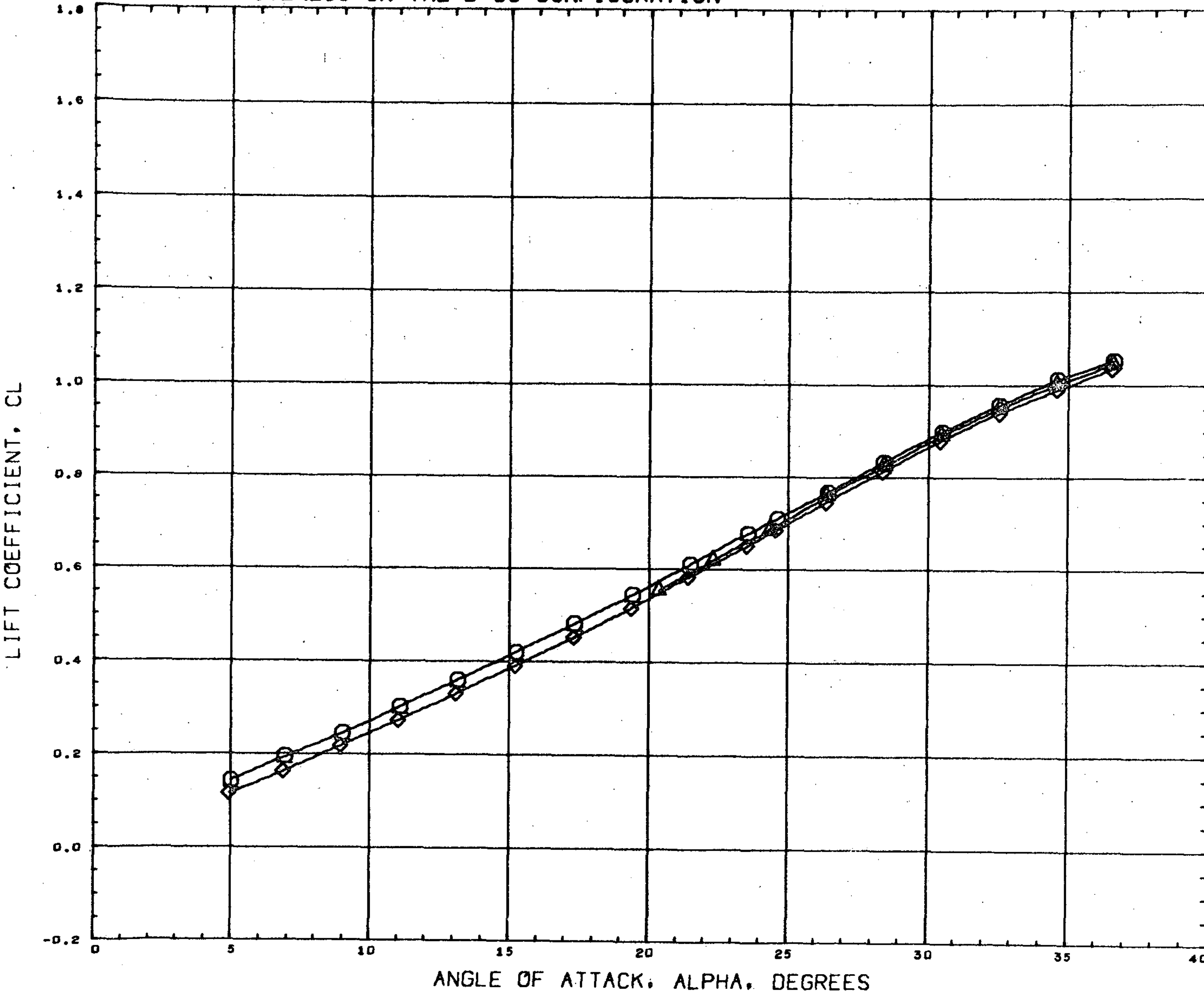


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35ECB)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35CBA)	△	MSFC TWT-493 GD/C	B25W19C8	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(D35CCE)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 2.990

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



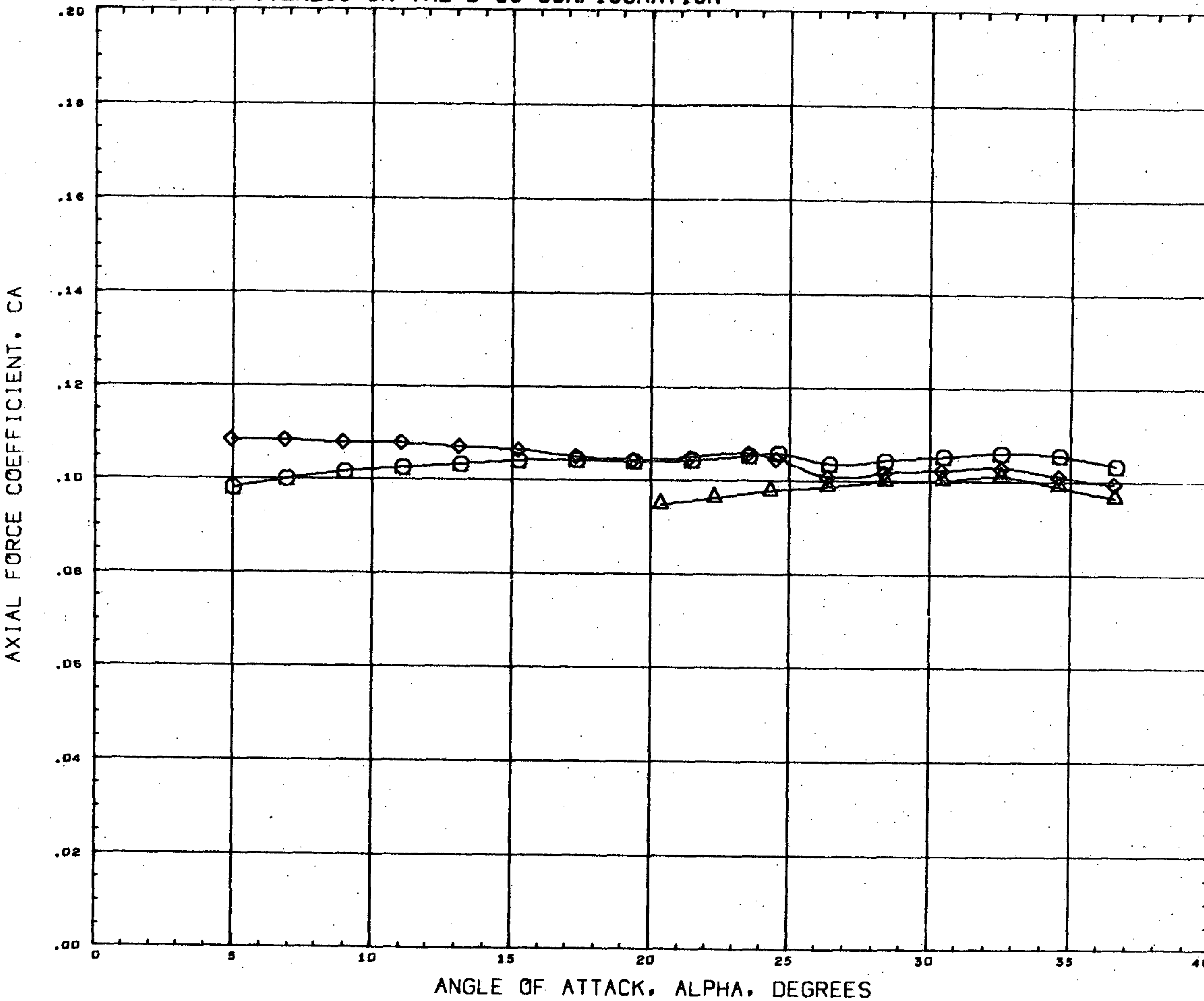
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35ECB)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35CBA)	△	MSFC TWT-493 GD/C	B25W19C8	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(D35CCE)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



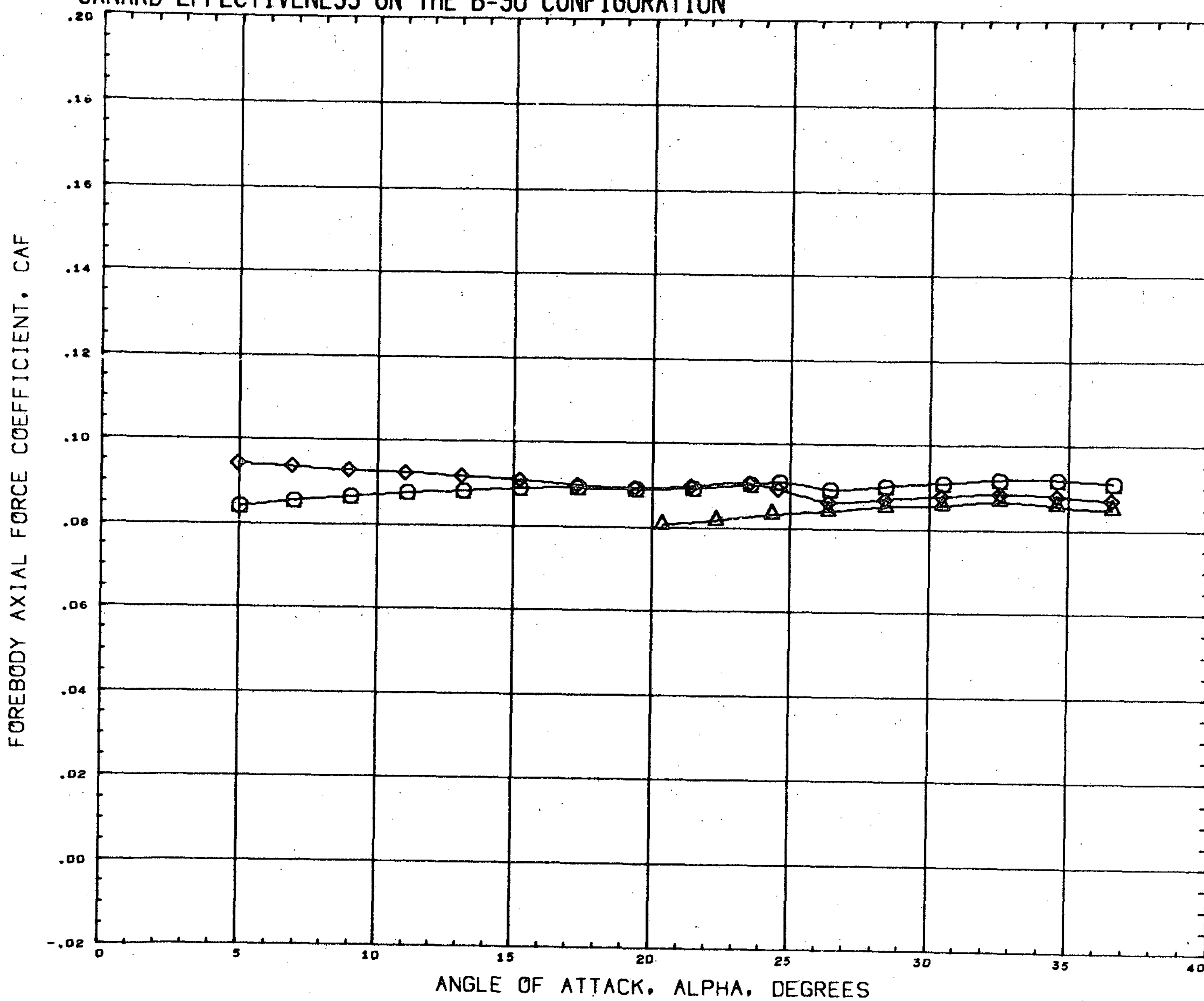
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E35ECB)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(E35CBA)	△	MSFC TWT-493 GD/C B25W19C8 E=0 C=-15 R=0	0.000	0.000	-15.000	0.000
(D35CCE)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

C-3

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



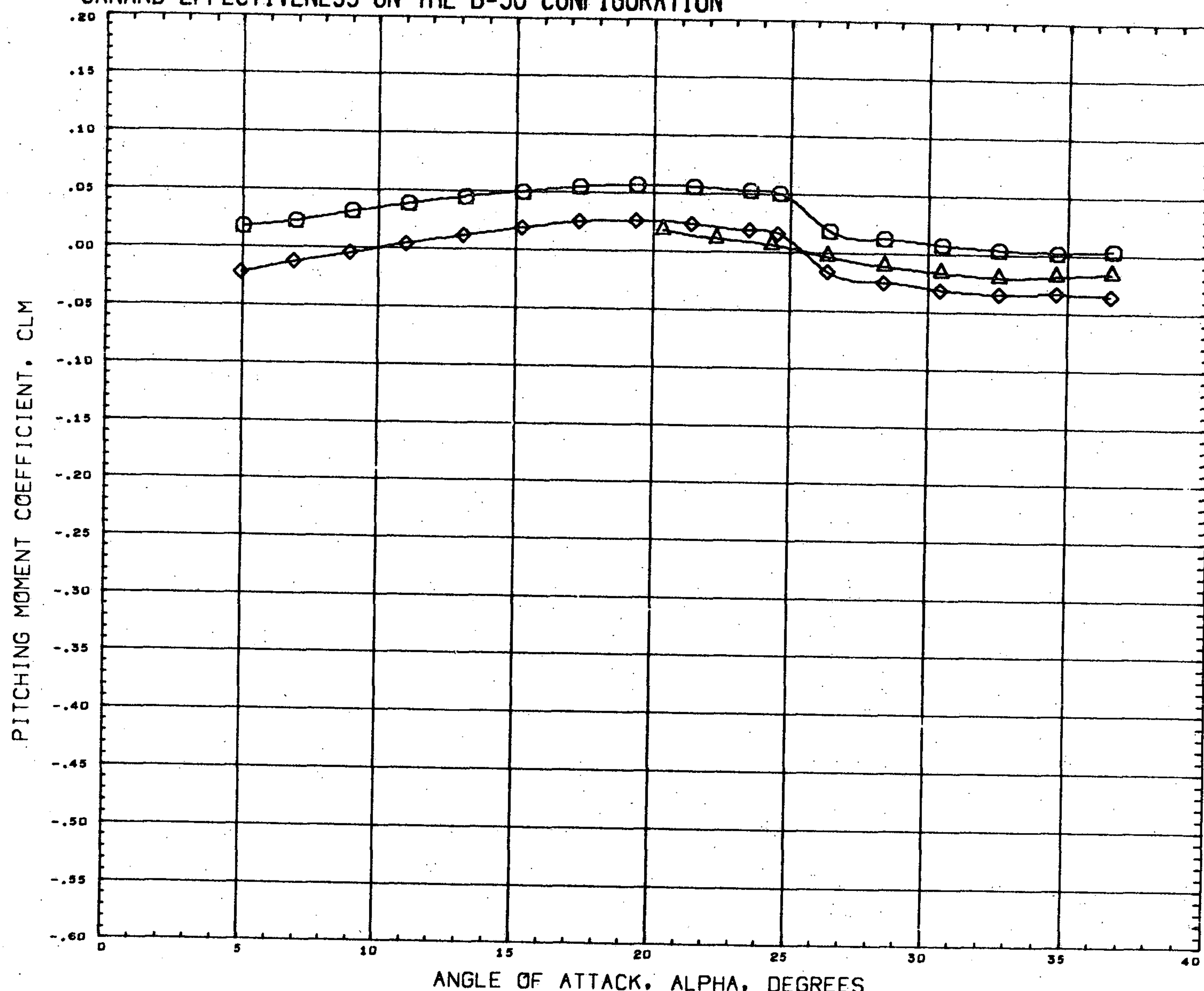
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35ECB)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35CBA)	△	MSFC TWT-493 GD/C	B25W19C8	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(D35CCE)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION

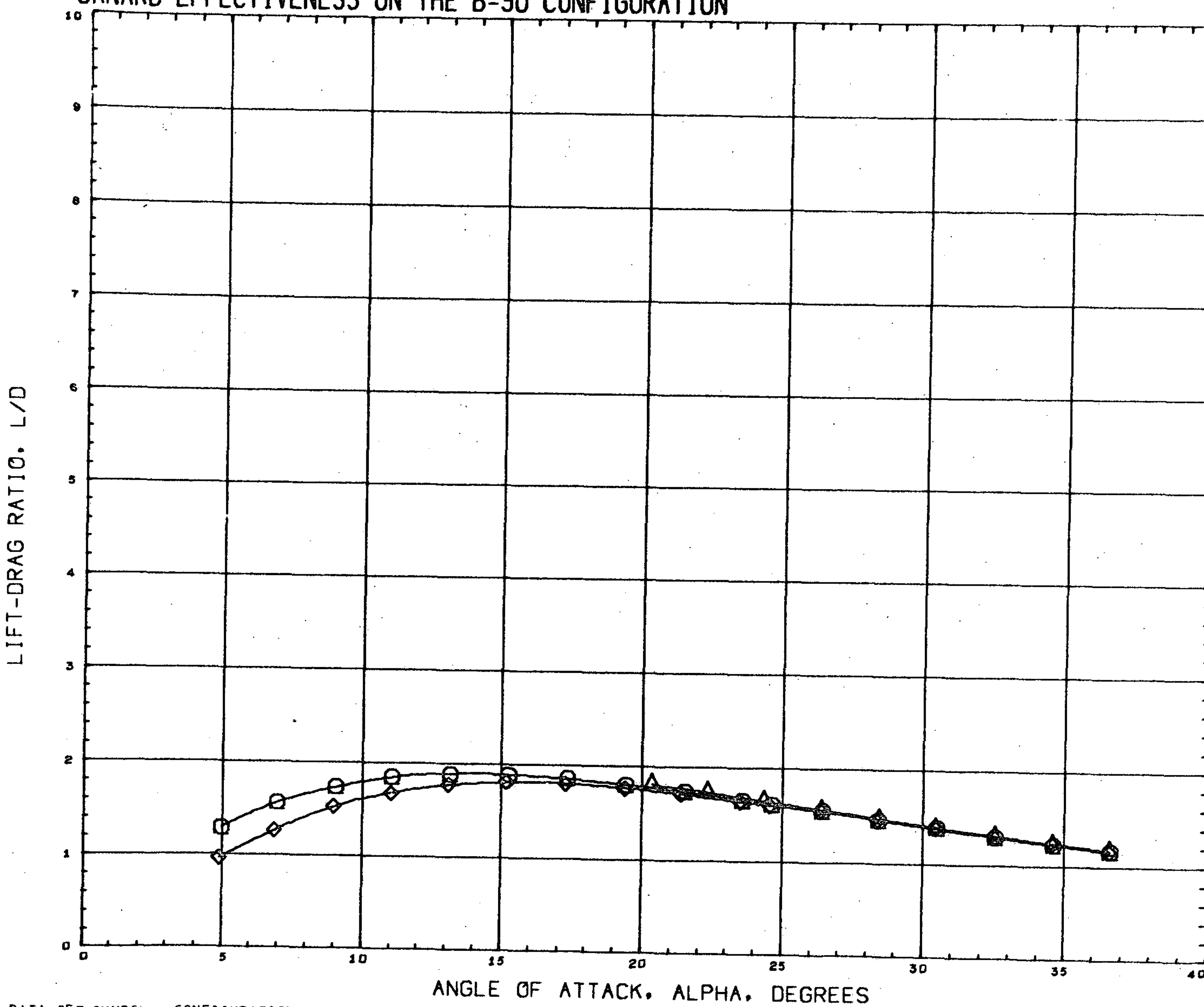


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35ECB)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35CBA)	△	MSFC TWT-493 GD/C	B25W19C8	E=0	C=-15 R=0		0.000	0.000	-15.000	0.000
(D35CCE)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30 R=0		0.000	0.000	-30.000	0.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



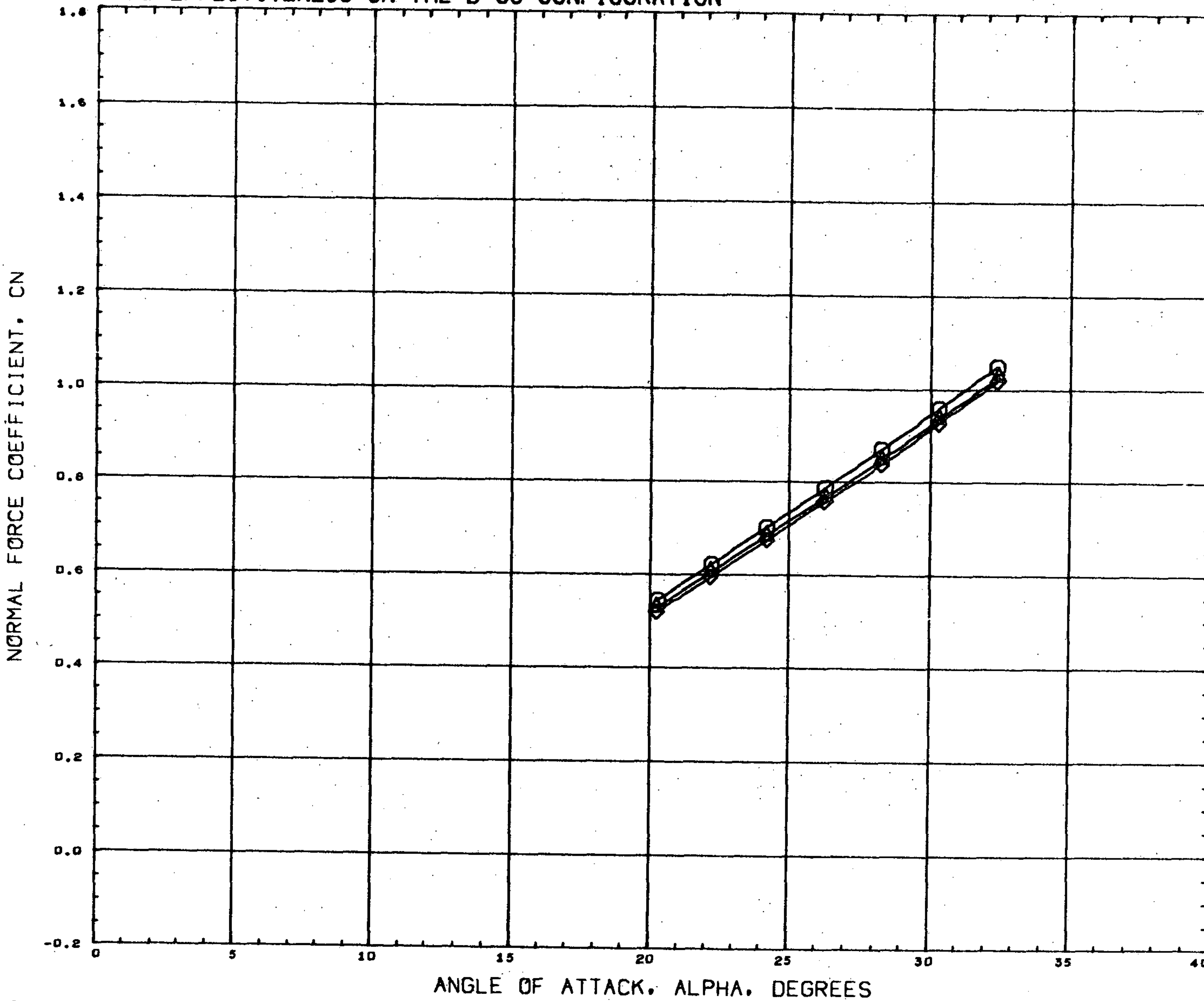
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35ECB)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35CBA)	△	MSFC TWT-493 GD/C	B25W19C8	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(D35CCE)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION

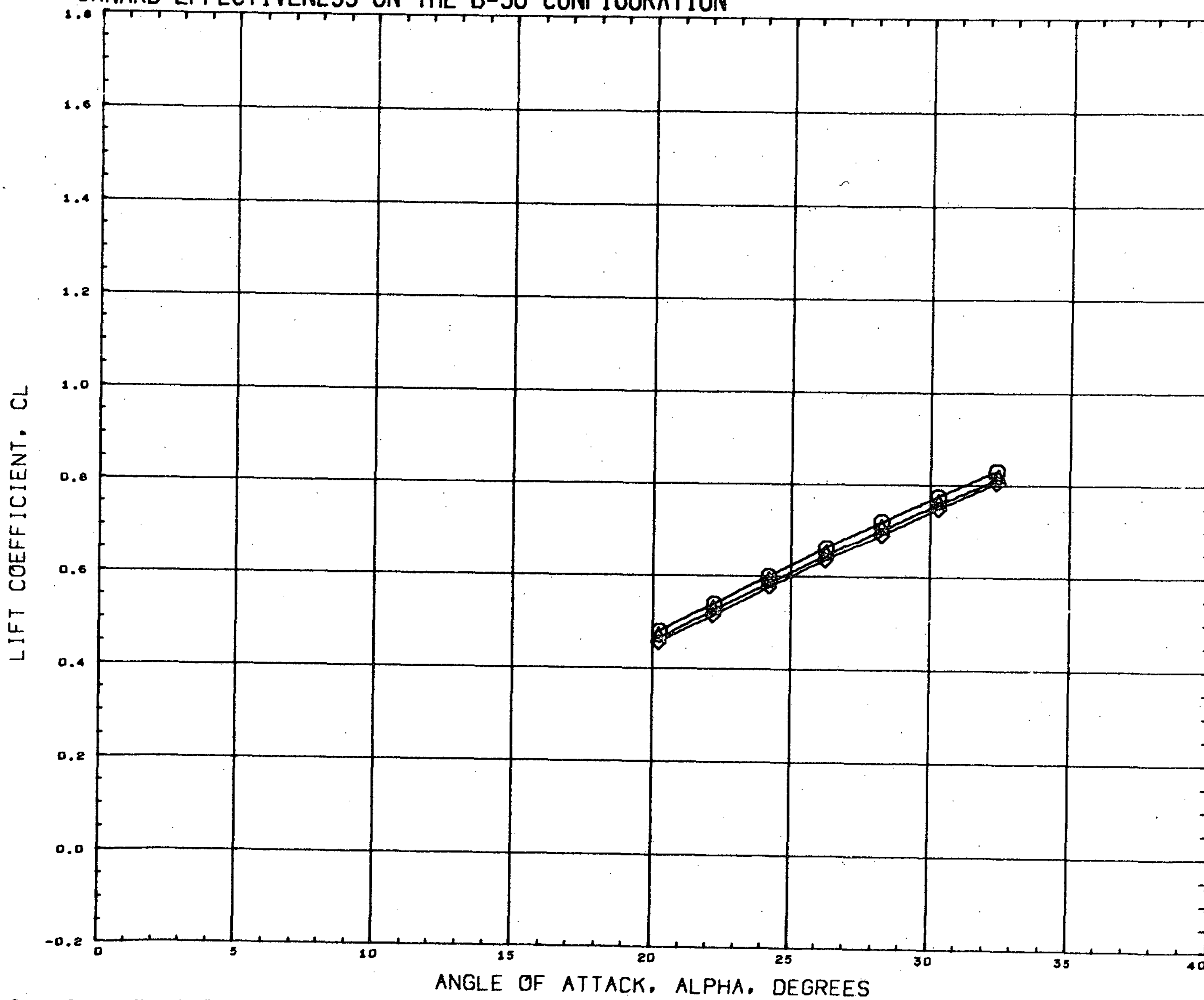


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION						BETA	ELEVON	CANARD	RUDDER
(E35EBO)	○	MSFC TWT-493 GD/C	B25W19C8	E=0	C=0	R=0		0.000	0.000	0.000	0.000
(F35CBA)	△	MSFC TWT-493 GD/C	B25W19C8	E=0	C=-15	R=0		0.000	0.000	-15.000	0.000
(E35CBB)	◇	MSFC TWT-493 GD/C	B25W19C8	E=0	C=-30	R=0		0.000	0.000	-30.000	0.000

MACH 4.450

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION

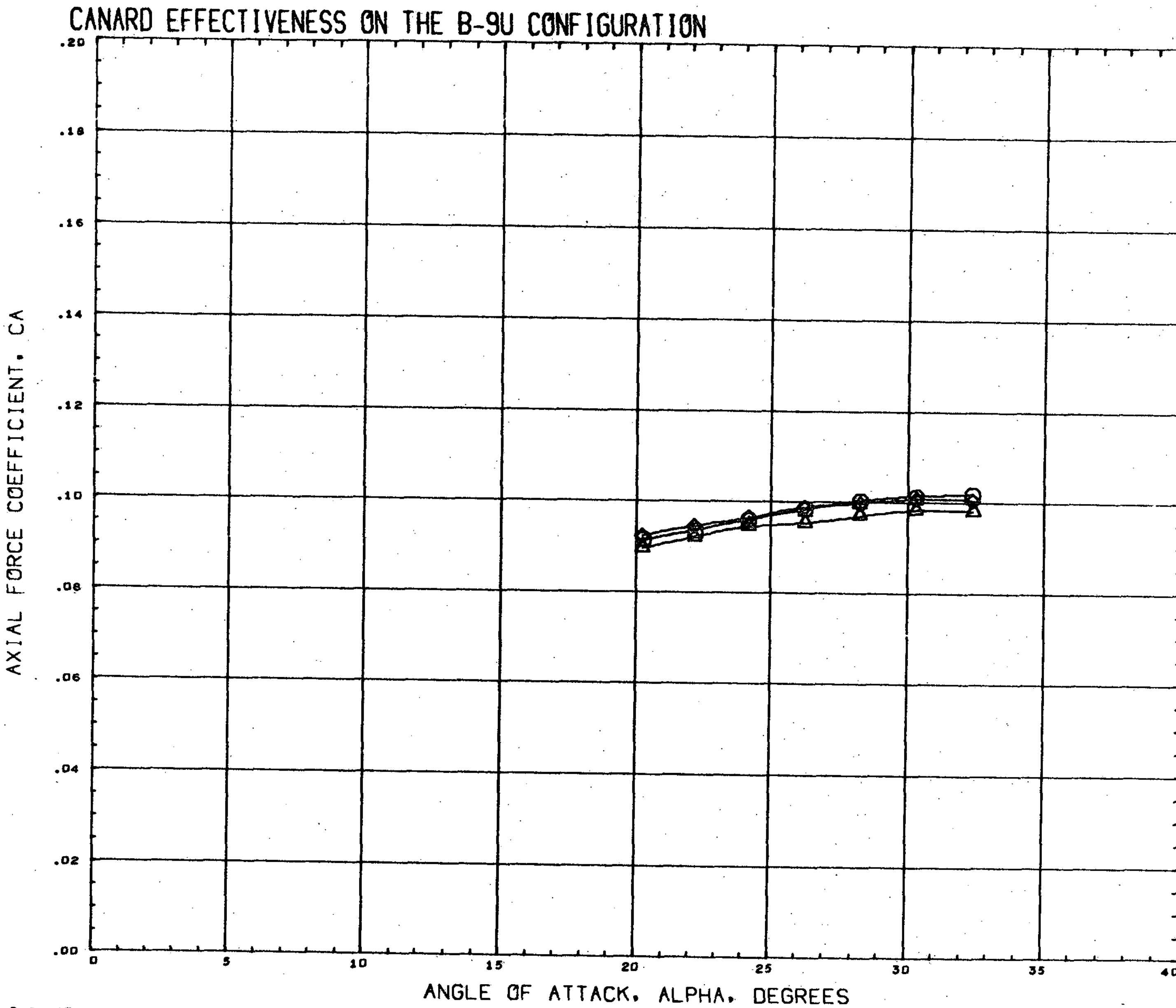


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EBO)	○	MSFC TWT-493 GD/C B25W19C8	E=0	C=0	R=0		0.000	0.000	0.000	0.000
(F35CBA)	△	MSFC TWT-493 GD/C B25W19C8	E=0	C=-15	R=0		0.000	0.000	-15.000	0.000
(E35CBB)	◇	MSFC TWT-493 GD/C B25W19C8	E=0	C=-30	R=0		0.000	0.000	-30.000	0.000

MACH 4.450

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	



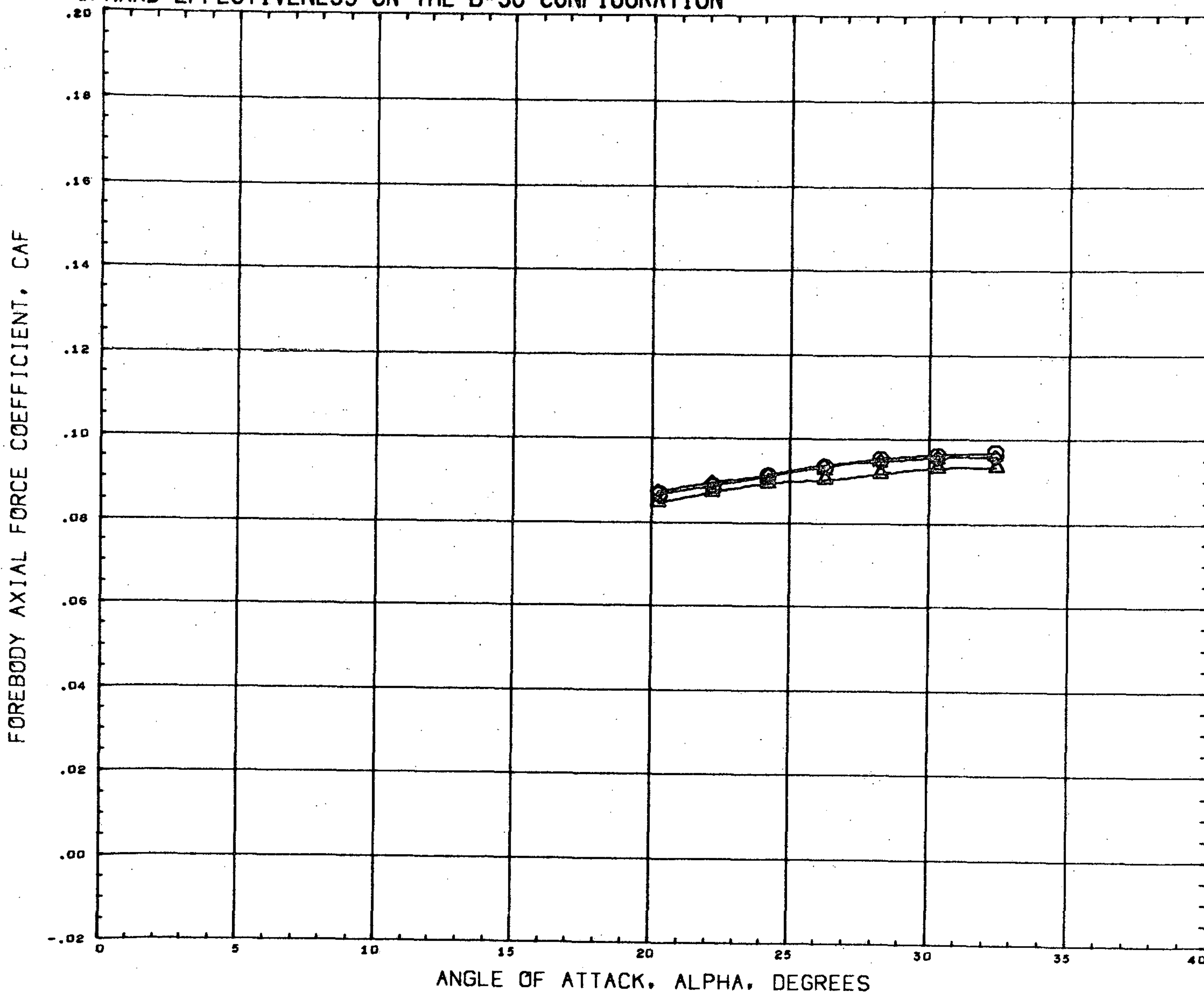
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(E35EBO)	○	MSFC TWT-493 GD/C B25W19C8	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(F35CBA)	△	MSFC TWT-493 GD/C B25W19C8	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(E35CBB)	◇	MSFC TWT-493 GD/C B25W19C8	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 4.450

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



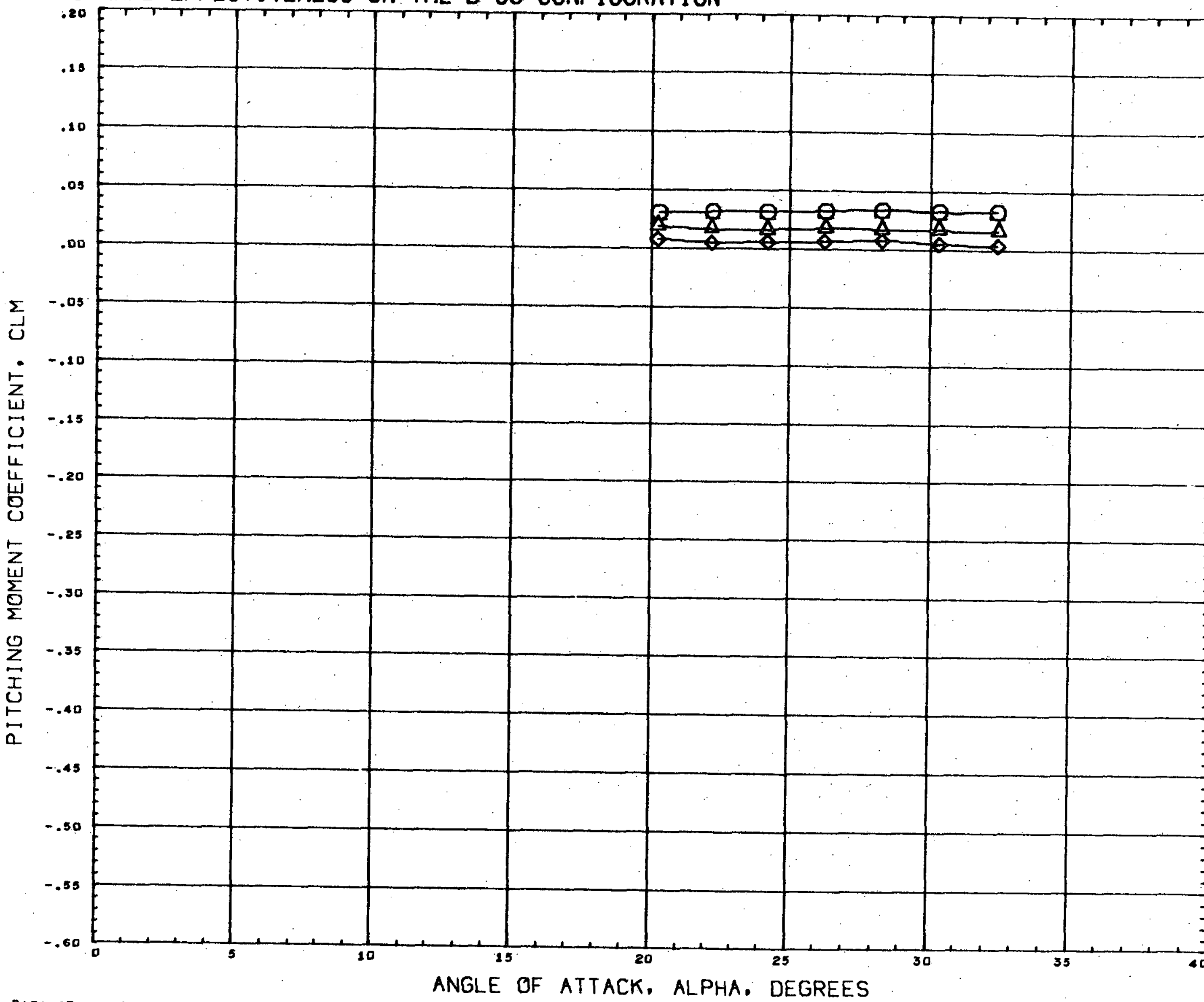
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(E35EBO)	○	MSFC TWT-493 GD/C B25W19C8	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(F35CBA)	△	MSFC TWT-493 GD/C B25W19C8	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(E35CBB)	◇	MSFC TWT-493 GD/C B25W19C8	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 4.450

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



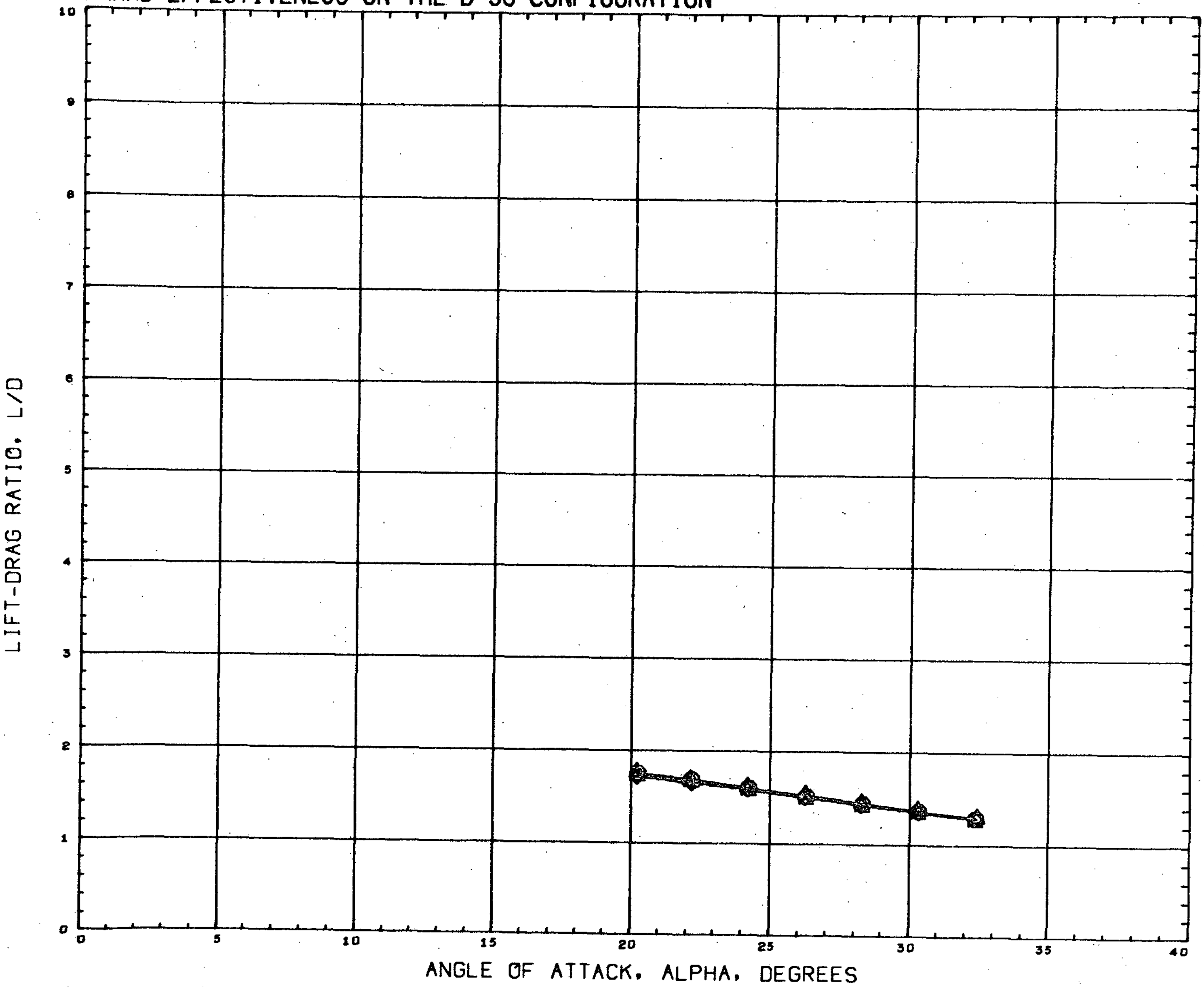
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35EBO)	○	MSFC TWT-493 GD/C	B25W19C8	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(F35CBA)	△	MSFC TWT-493 GD/C	B25W19C8	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(E35CBB)	◇	MSFC TWT-493 GD/C	B25W19C8	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 4.450

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



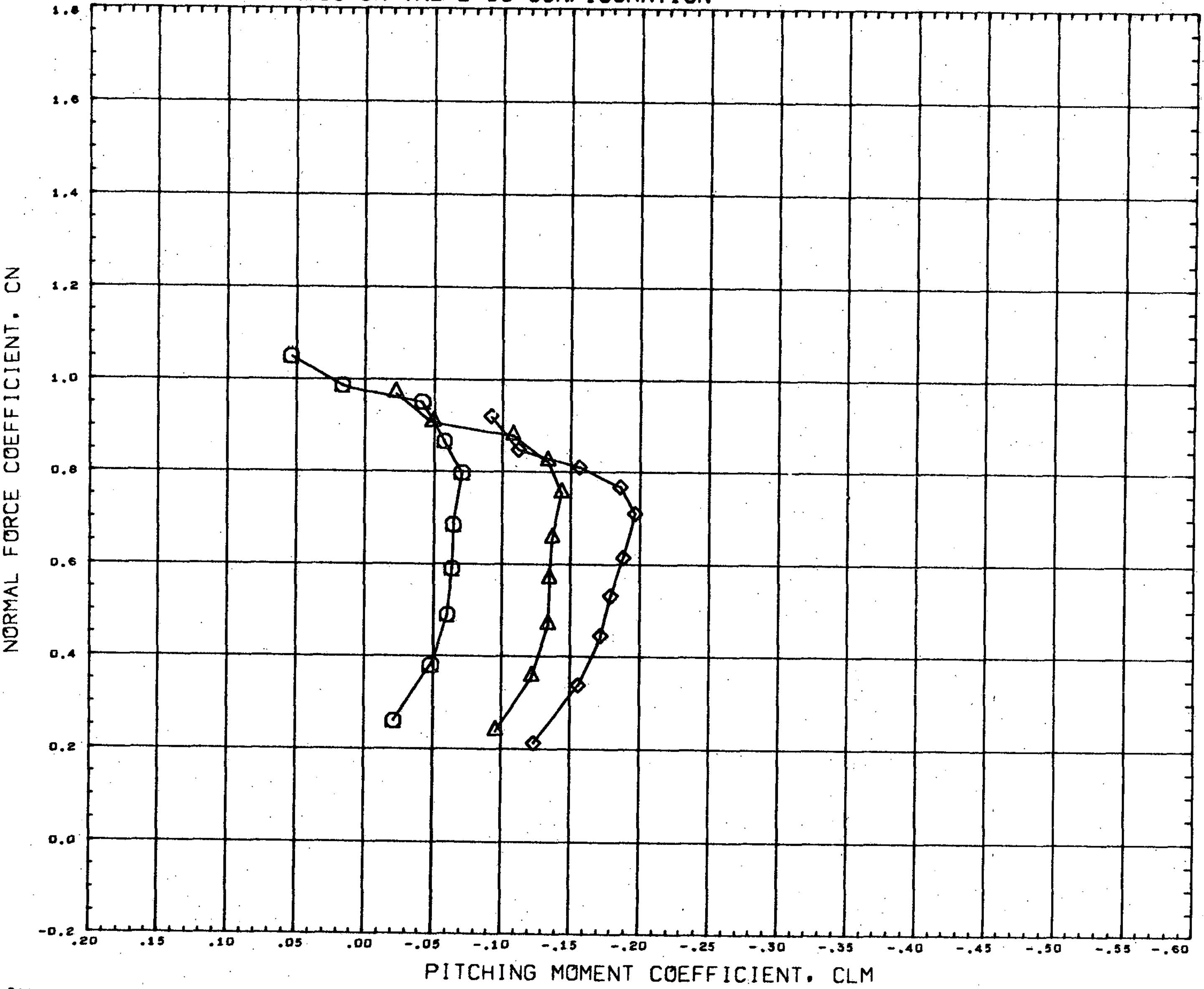
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(E35EBO)	○	MSFC TWT-493 GD/C B25W19C8	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(F35CBA)	△	MSFC TWT-493 GD/C B25W19C8	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(E35CBB)	◇	MSFC TWT-493 GD/C B25W19C8	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 4.450

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



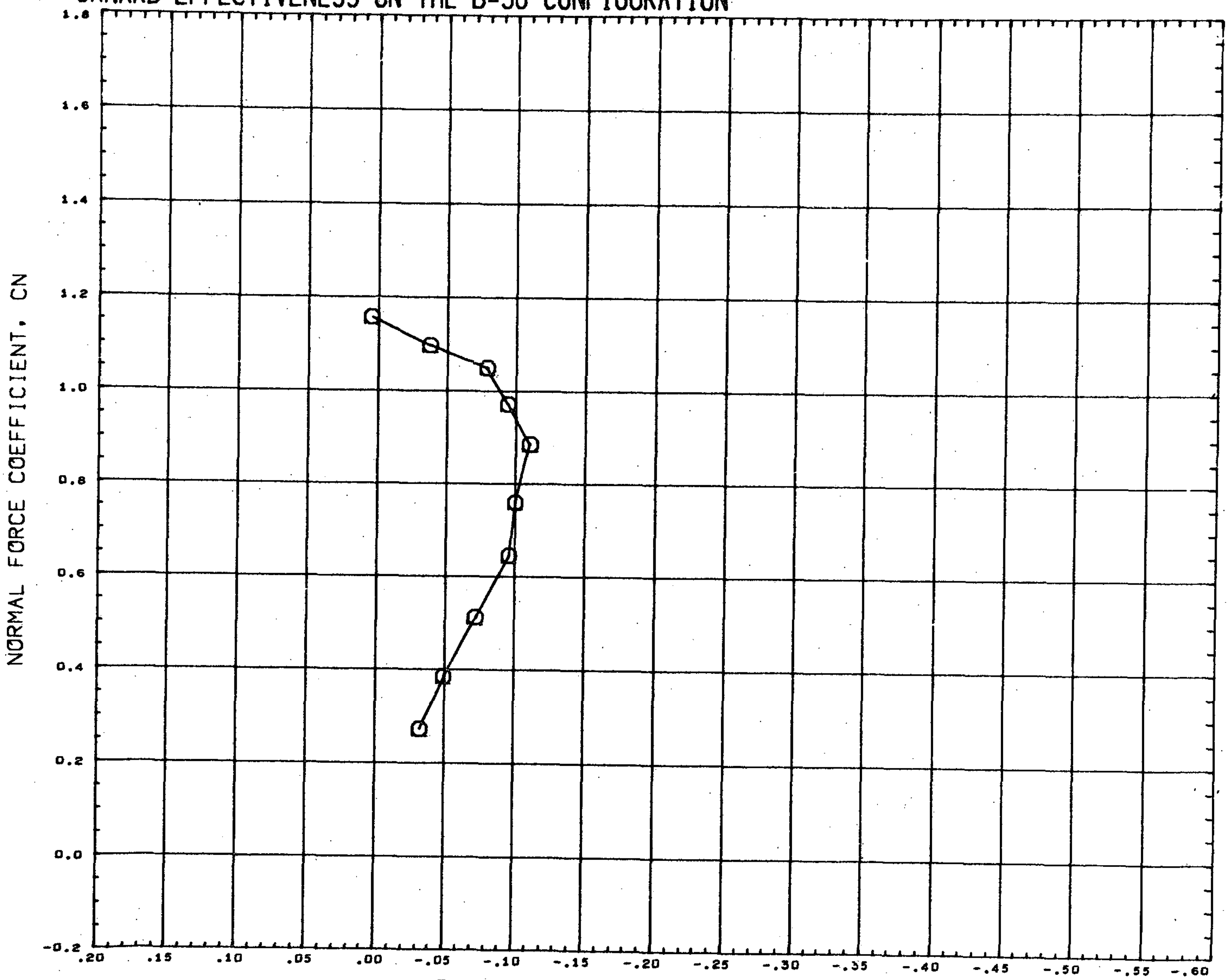
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 0.899

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



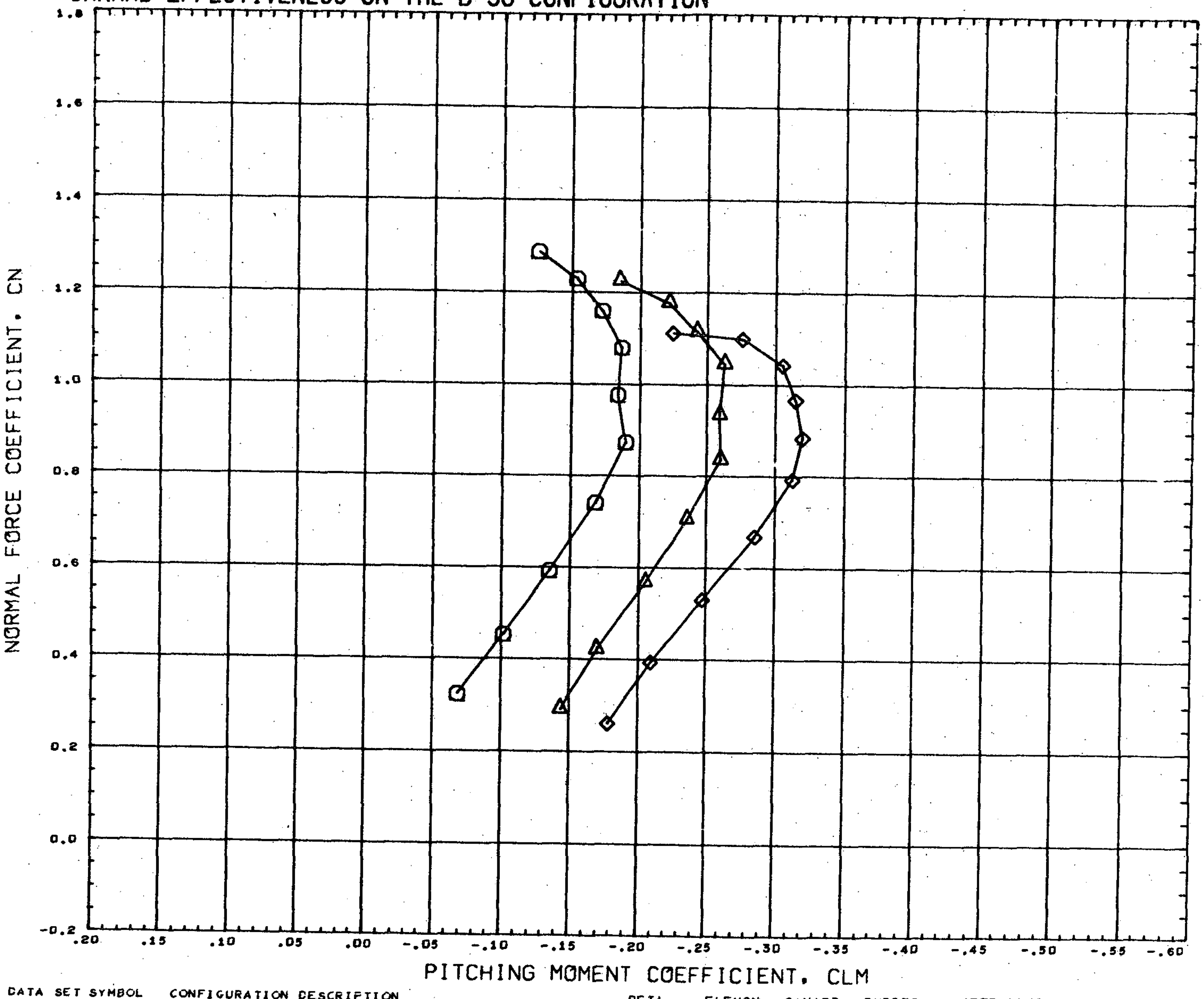
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	-15.000	0.000
(E35CAB)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	-30.000	0.000

MACH 0.961

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



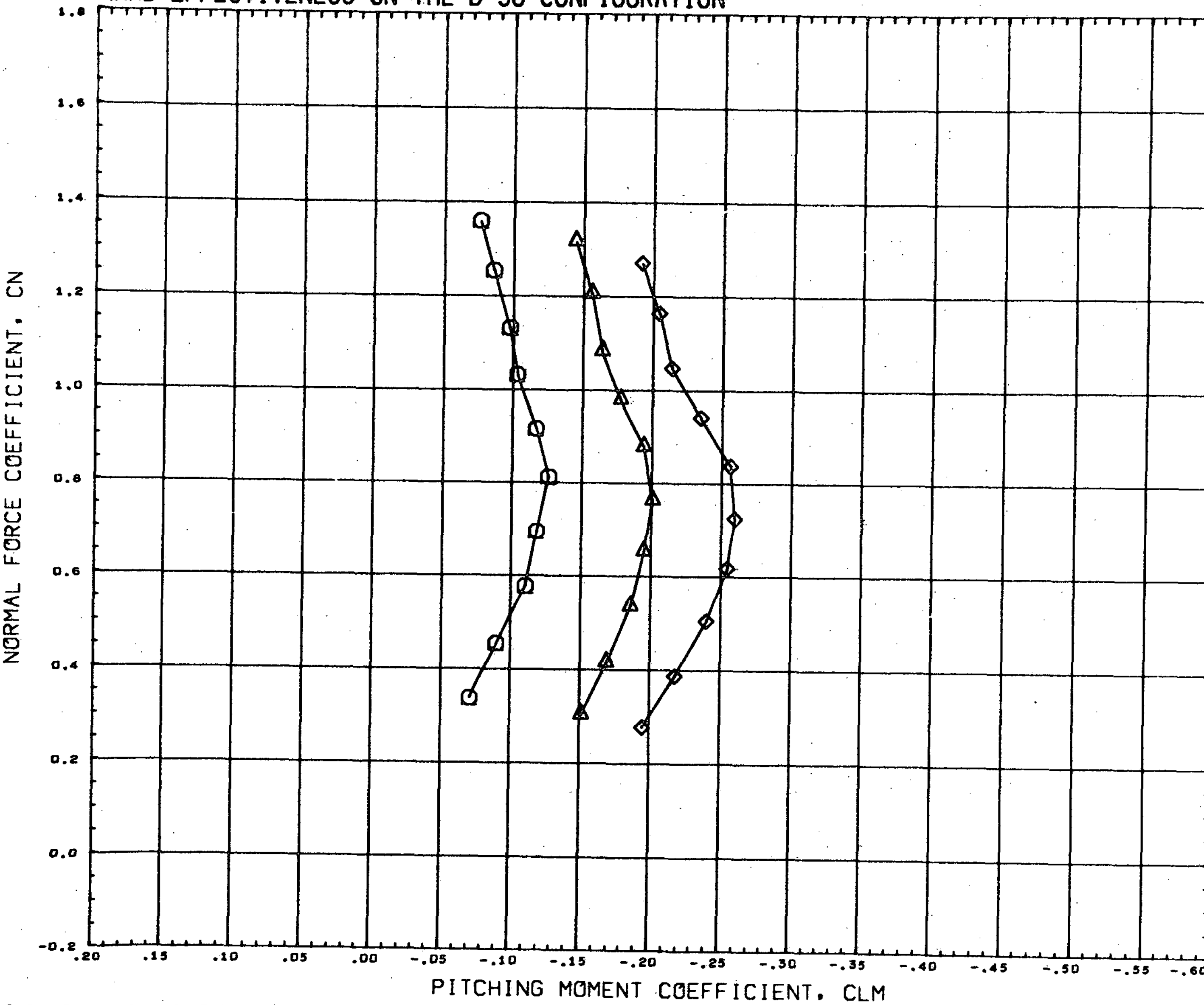
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 1.002

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



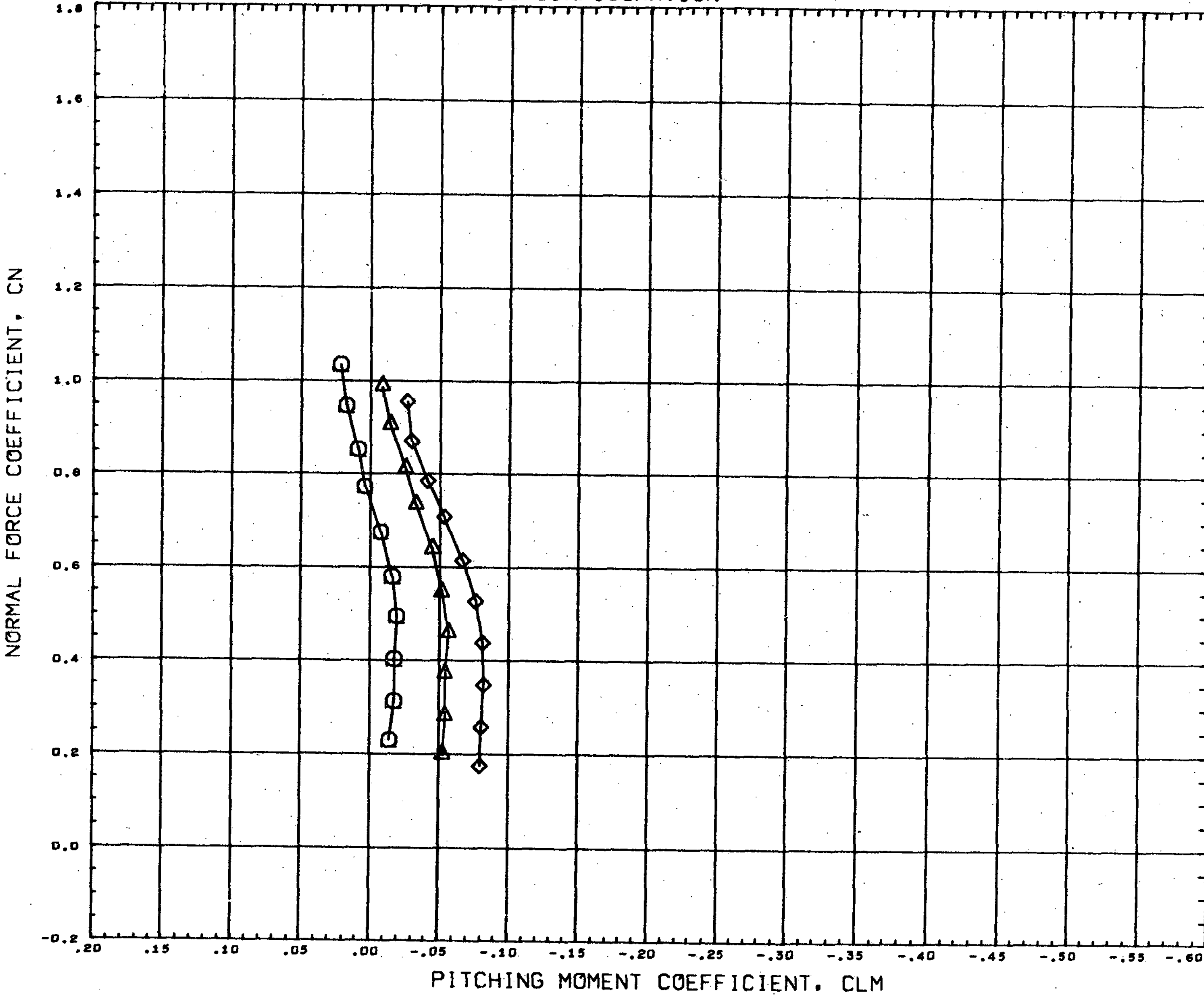
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=0 R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-15 R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 1.194

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



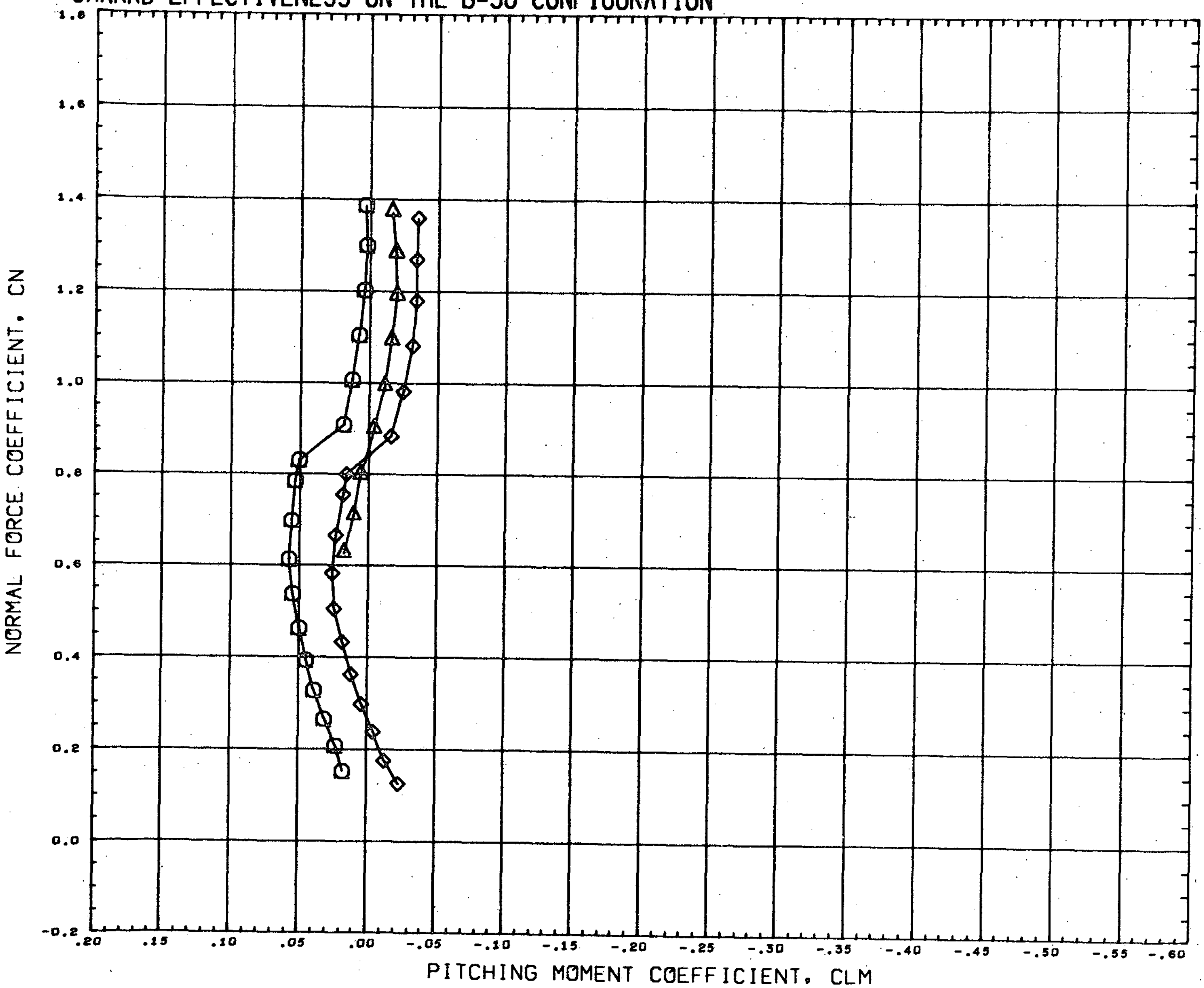
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(J35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(D35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(E35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.953

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION



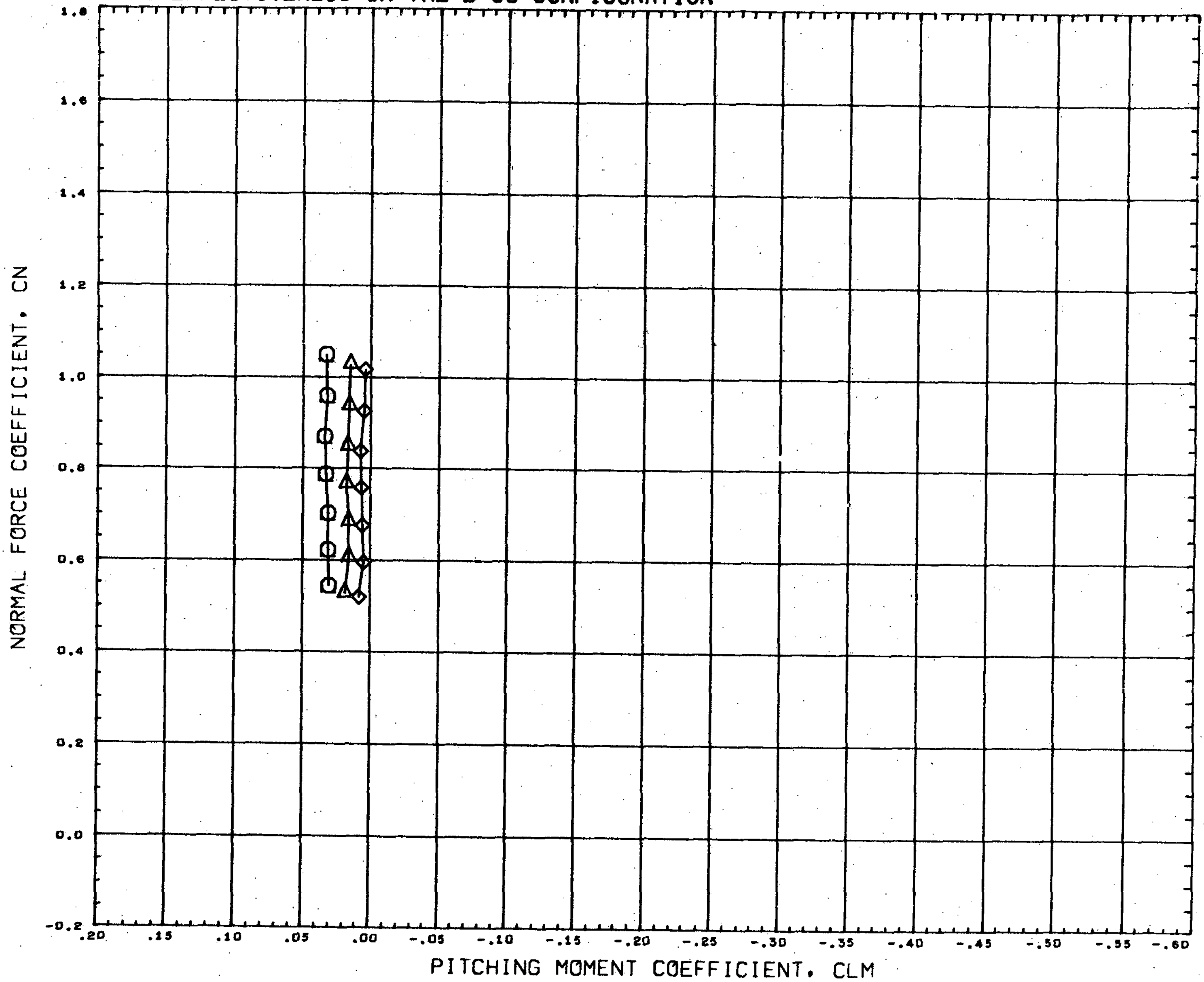
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(E35ECB)	○	MSFC TWT-493 GD/C	B25W19C8V1C	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(E35CBA)	△	MSFC TWT-493 GD/C	B25W19C8	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(D35CCE)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

CANARD EFFECTIVENESS ON THE B-9U CONFIGURATION

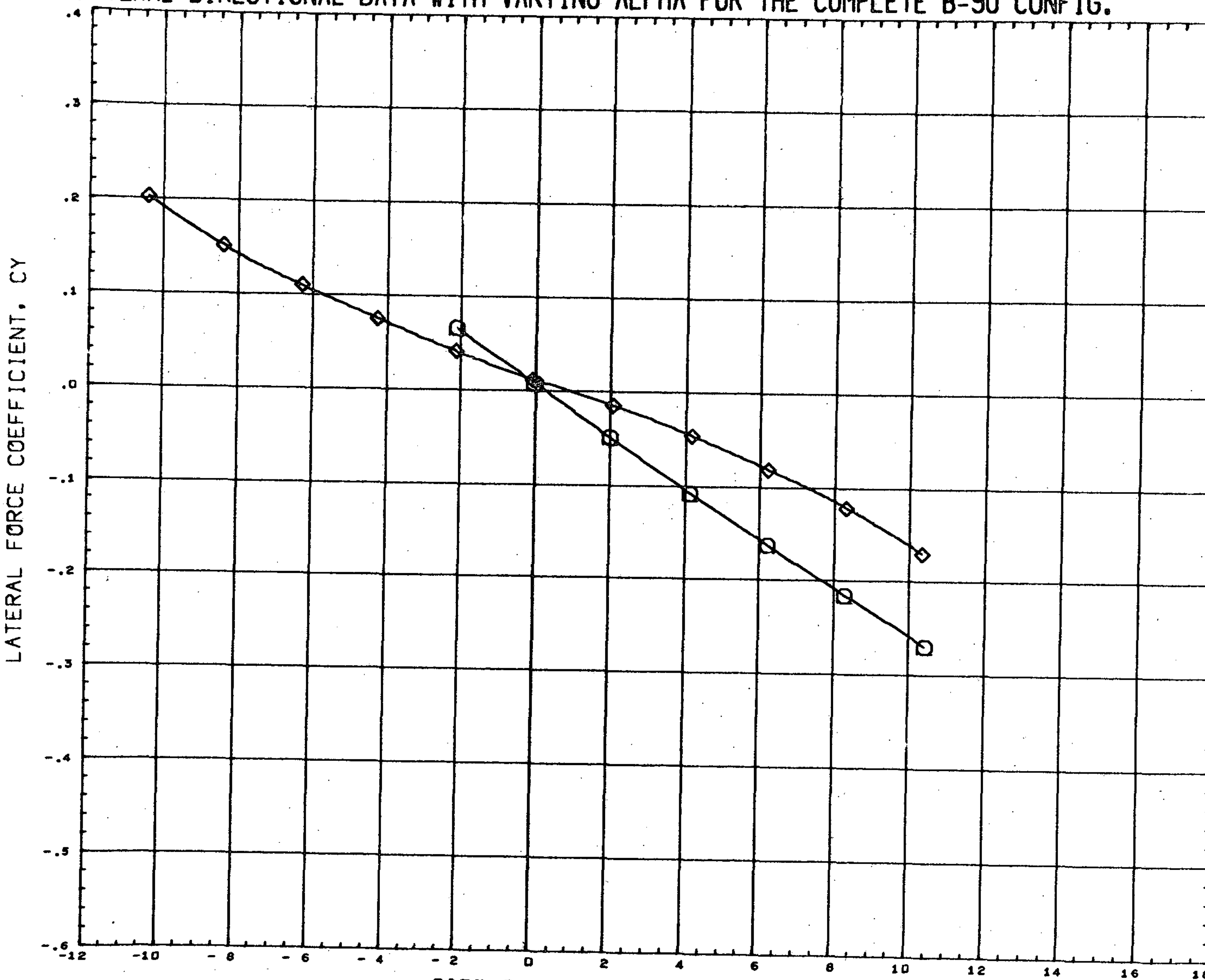


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(E35EBO)	○	MSFC TWT-493 GD/C B25W19C8	E=0	C=0	R=0	0.000	0.000	0.000	0.000
(F35CBA)	△	MSFC TWT-493 GD/C B25W19C8	E=0	C=-15	R=0	0.000	0.000	-15.000	0.000
(E35CBB)	◇	MSFC TWT-493 GD/C B25W19C8	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

MACH 4.450

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.



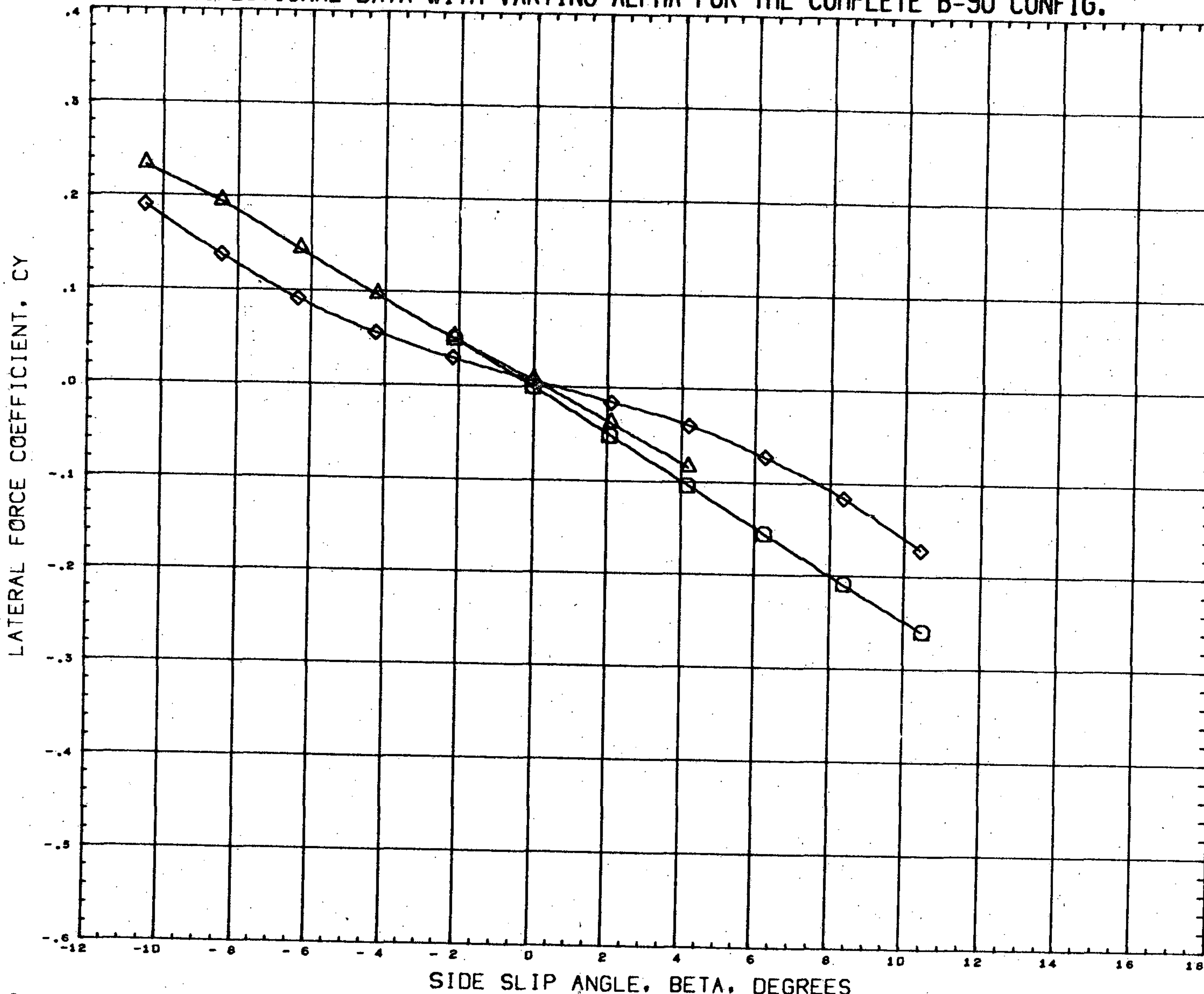
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C B25W19C8V1D ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C B25W19C8V1D ALFHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 0.996

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.



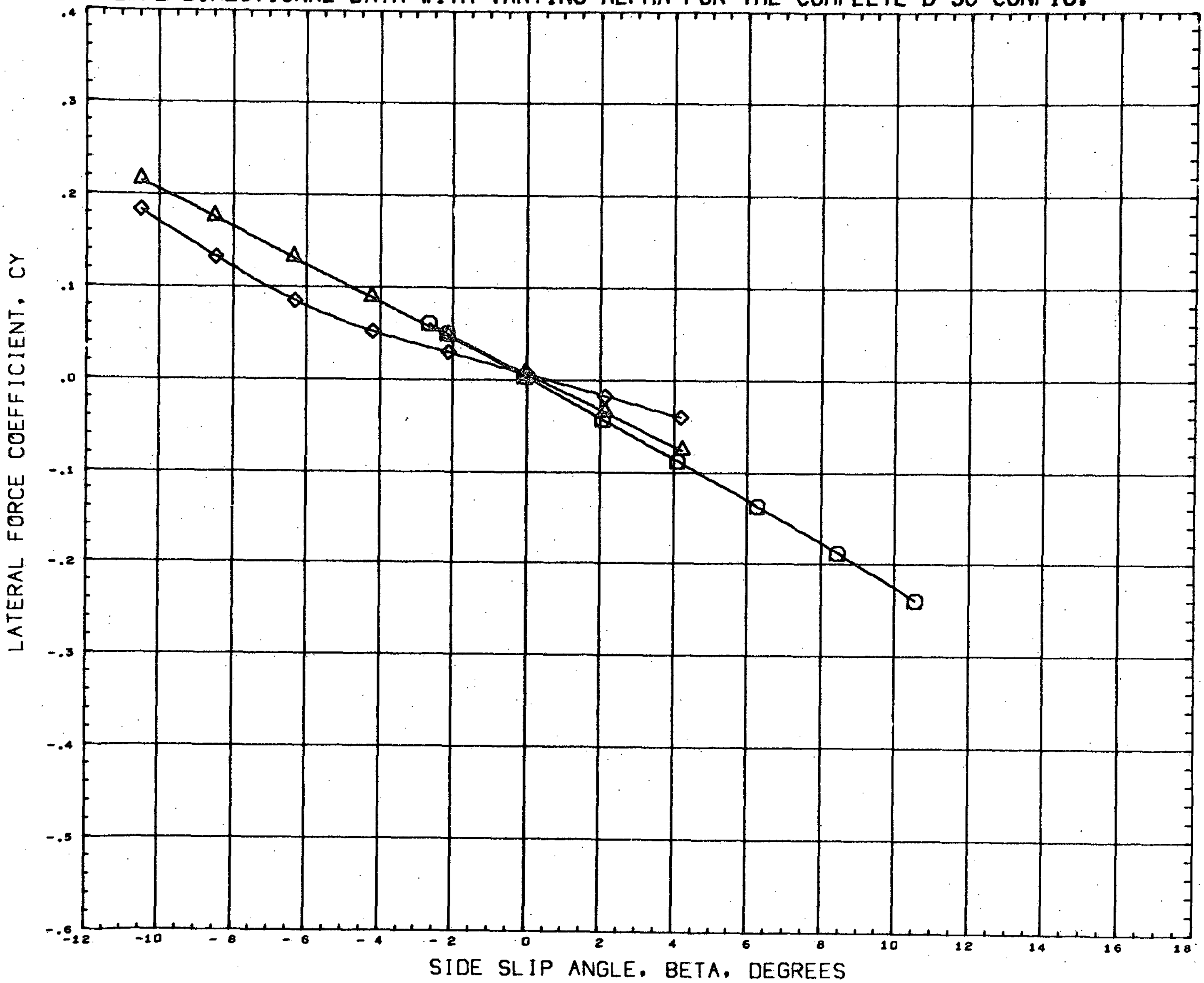
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0	C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=6	C=0 R=0	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=15	C=0 R=0	15.000	0.000	0.000	0.000

MACH 1.197

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.



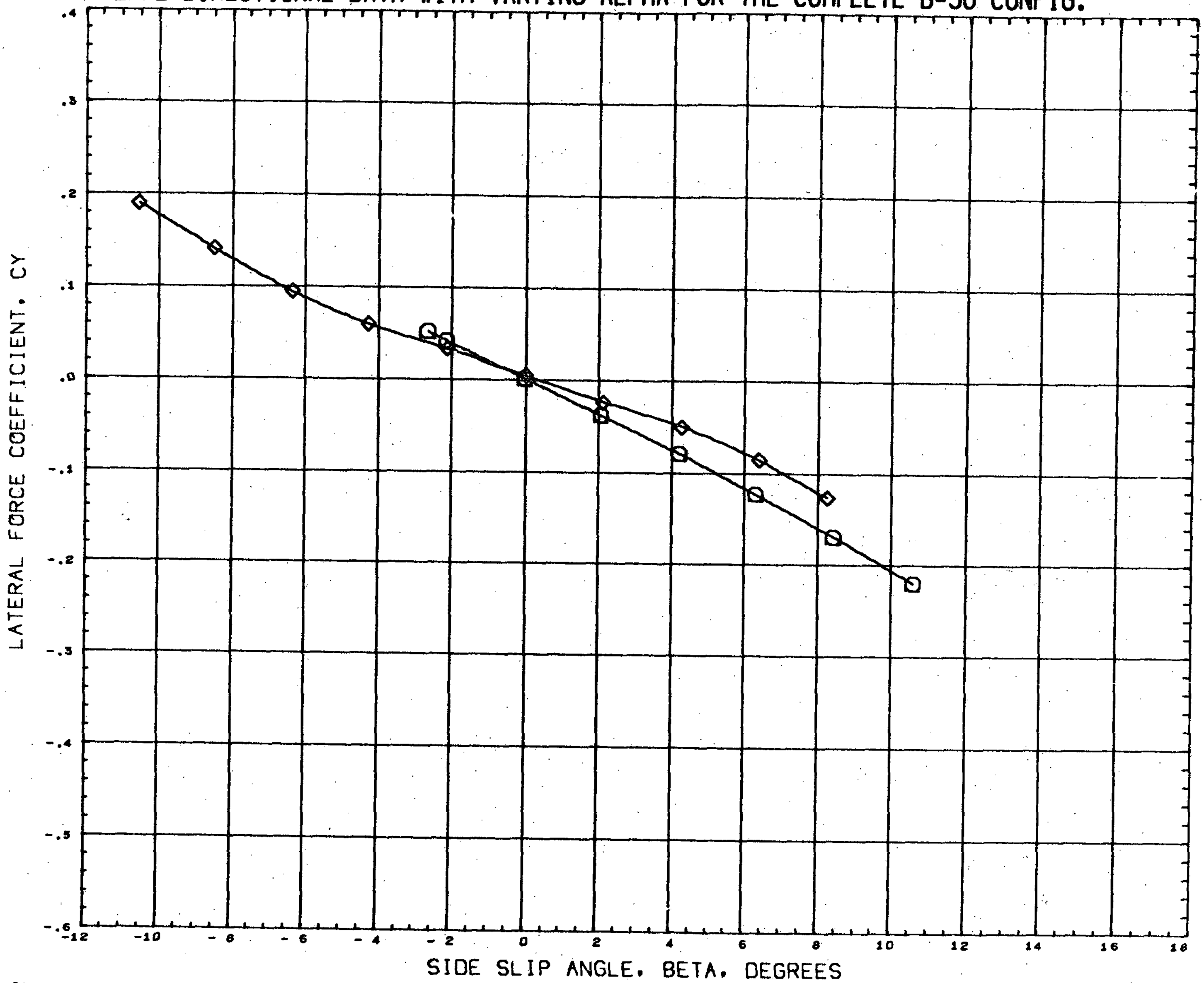
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(B35TCA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=6 C=0 R=0	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 1.464

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.

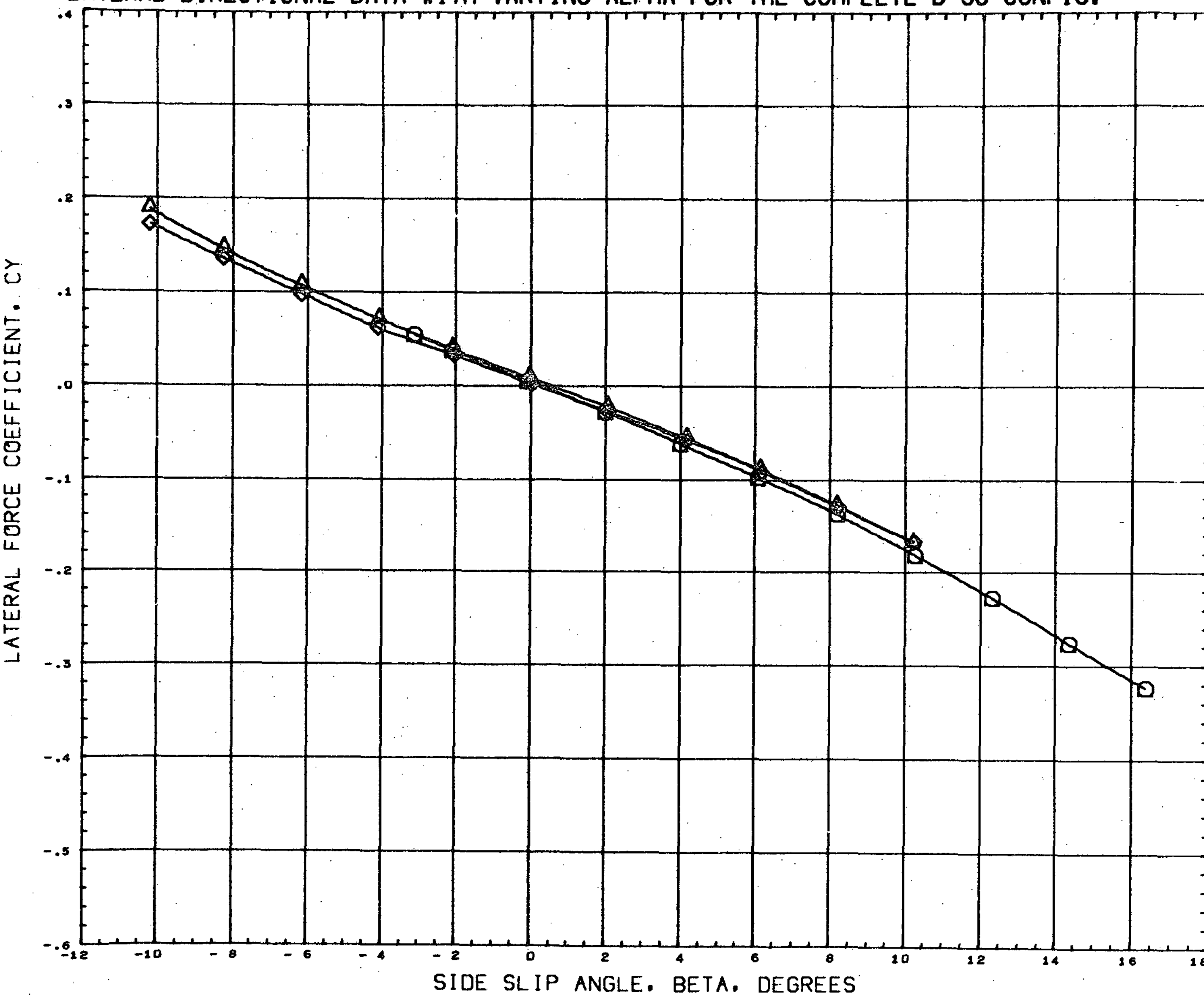


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.950

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.



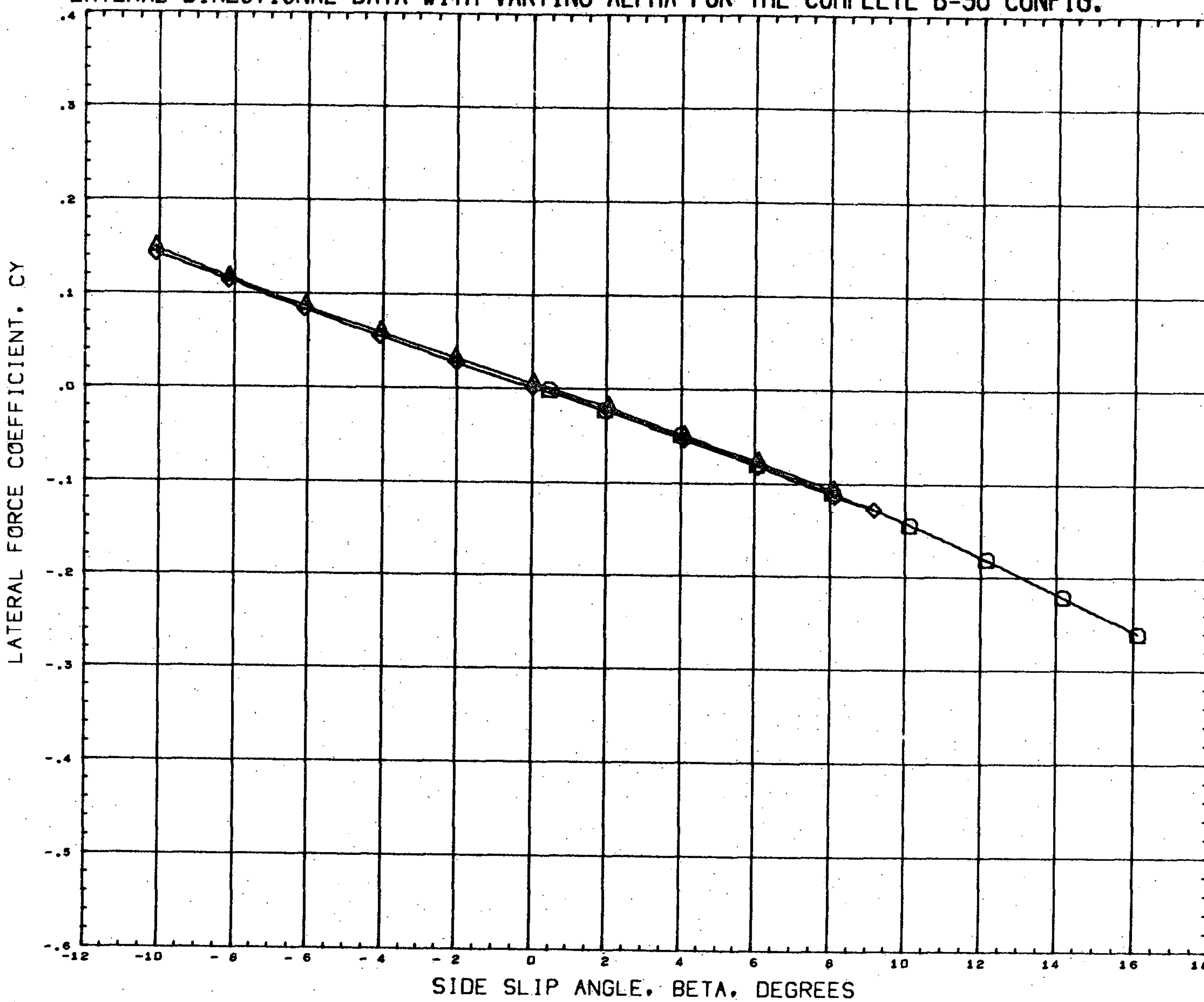
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=6 C=0 R=0	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.



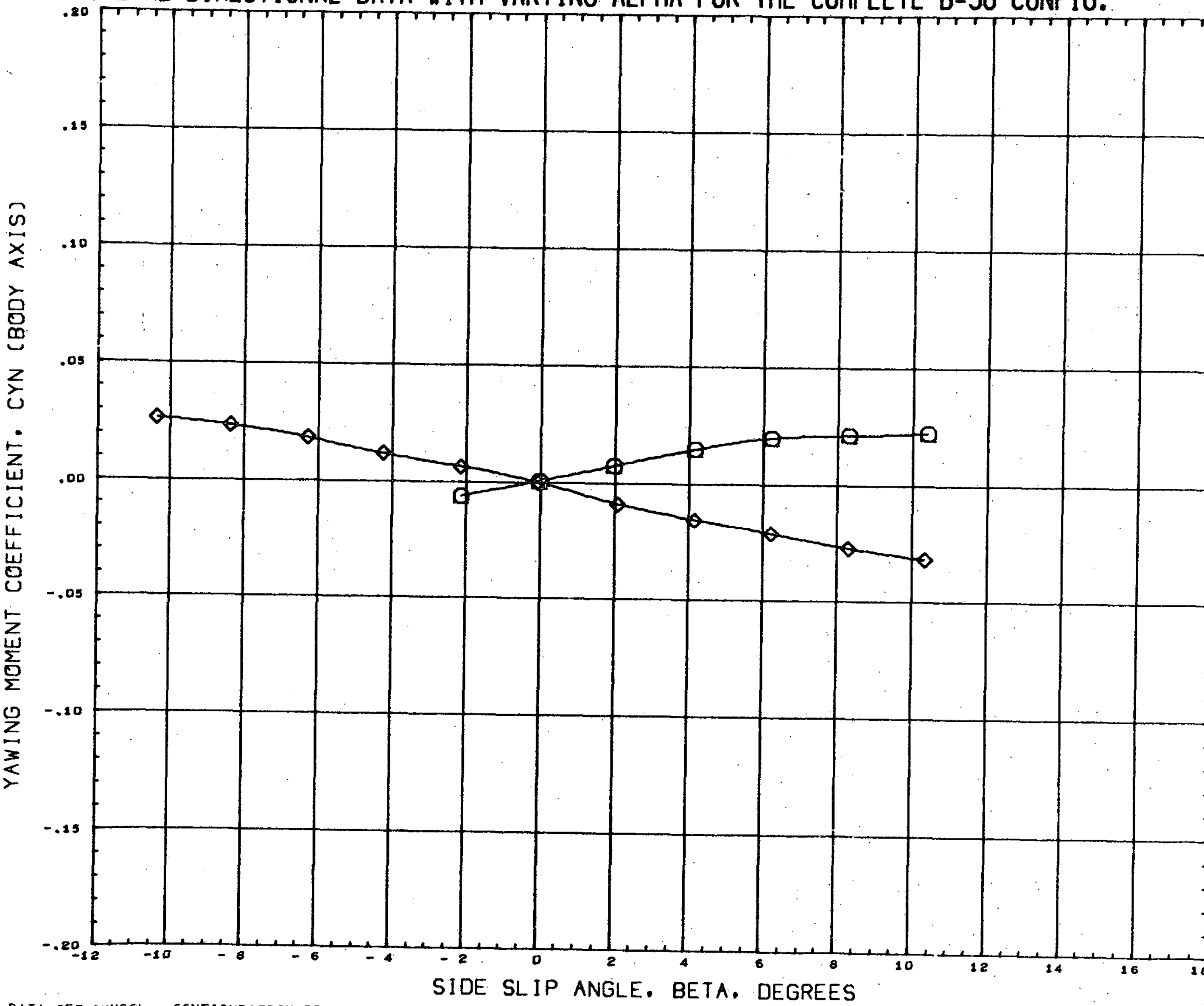
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=6 C=0 R=0	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.959

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.



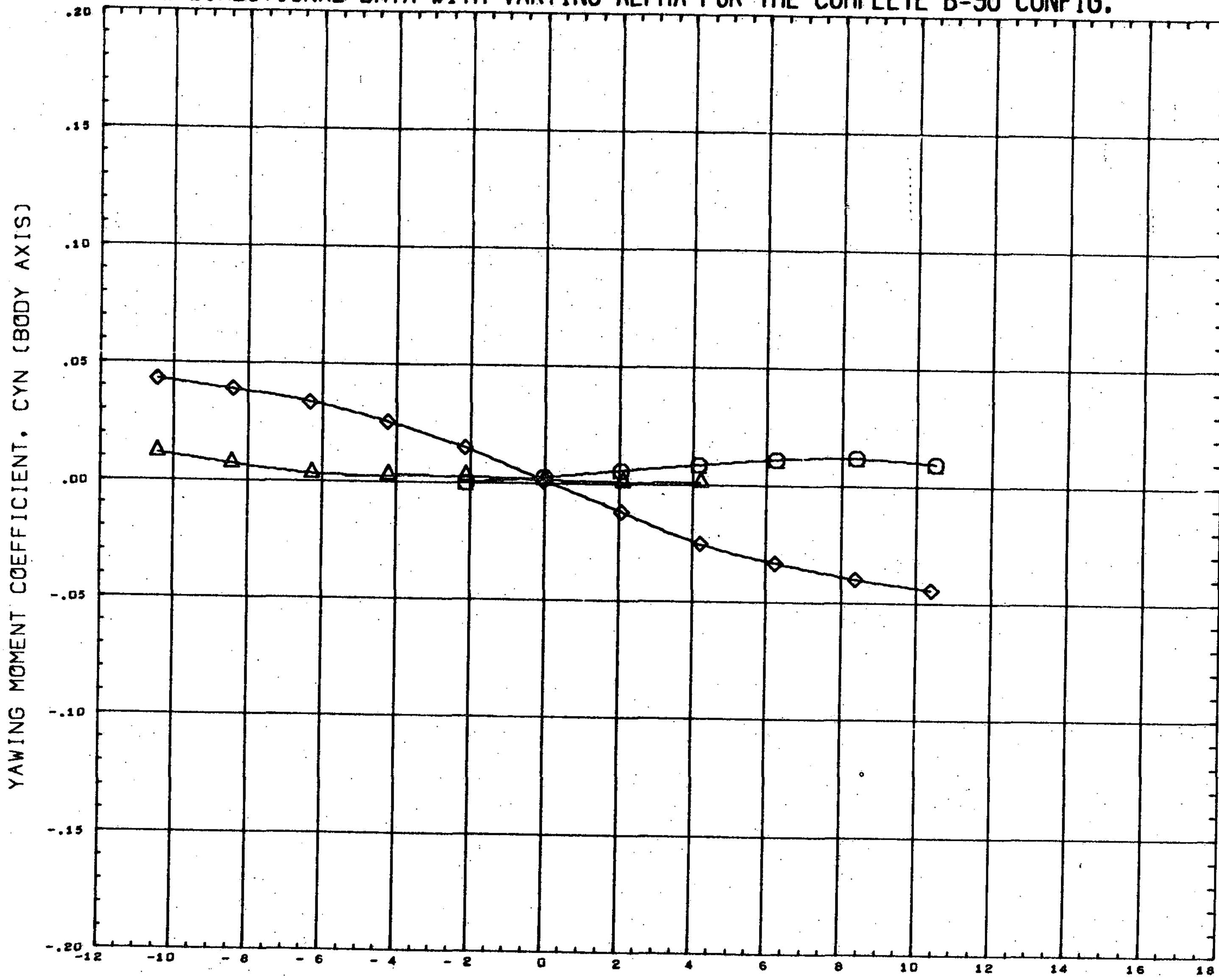
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 0.996

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.

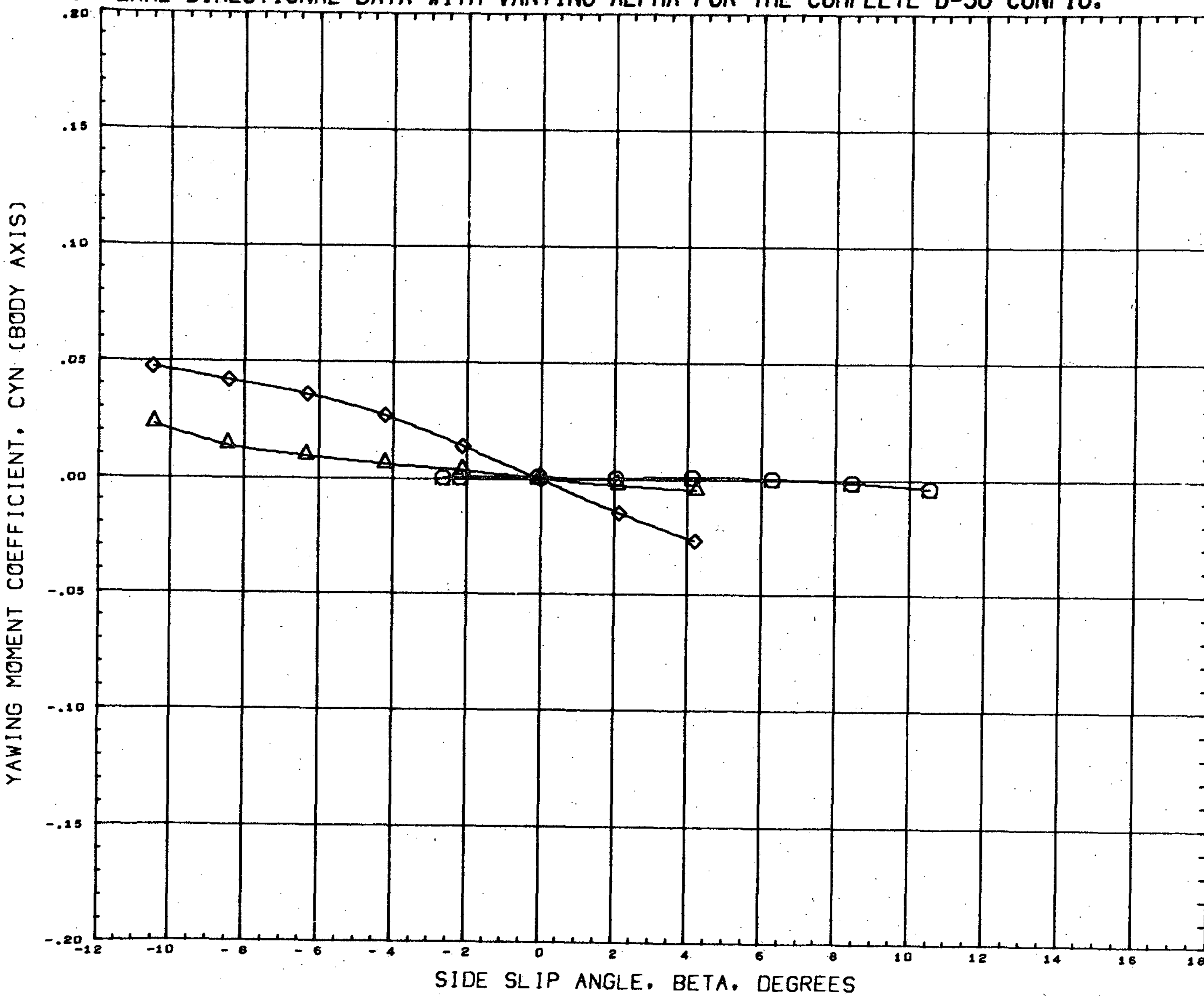


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=6 C=0 R=0	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 1.197

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.

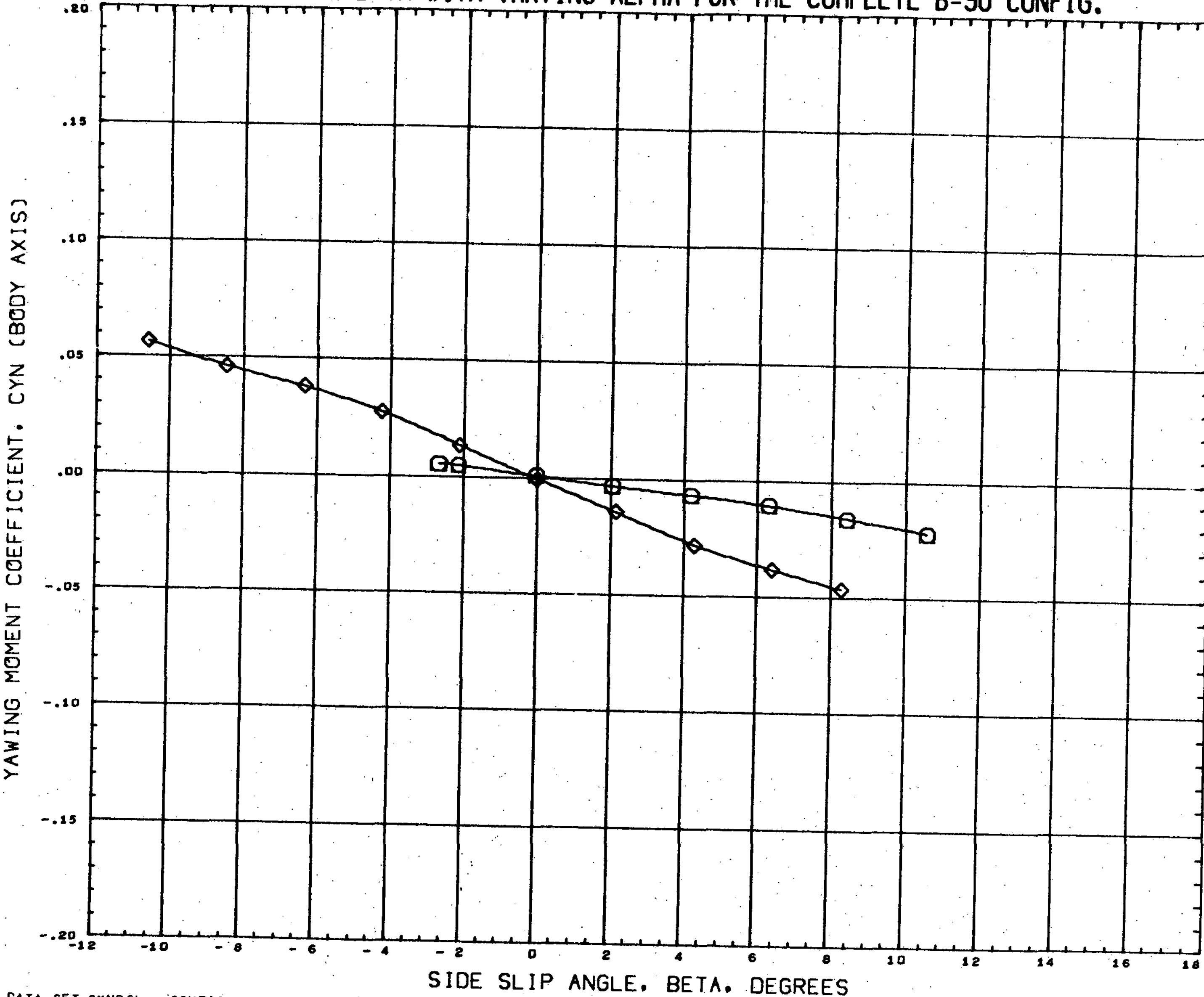


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=6 C=0 R=0	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 1.464

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.



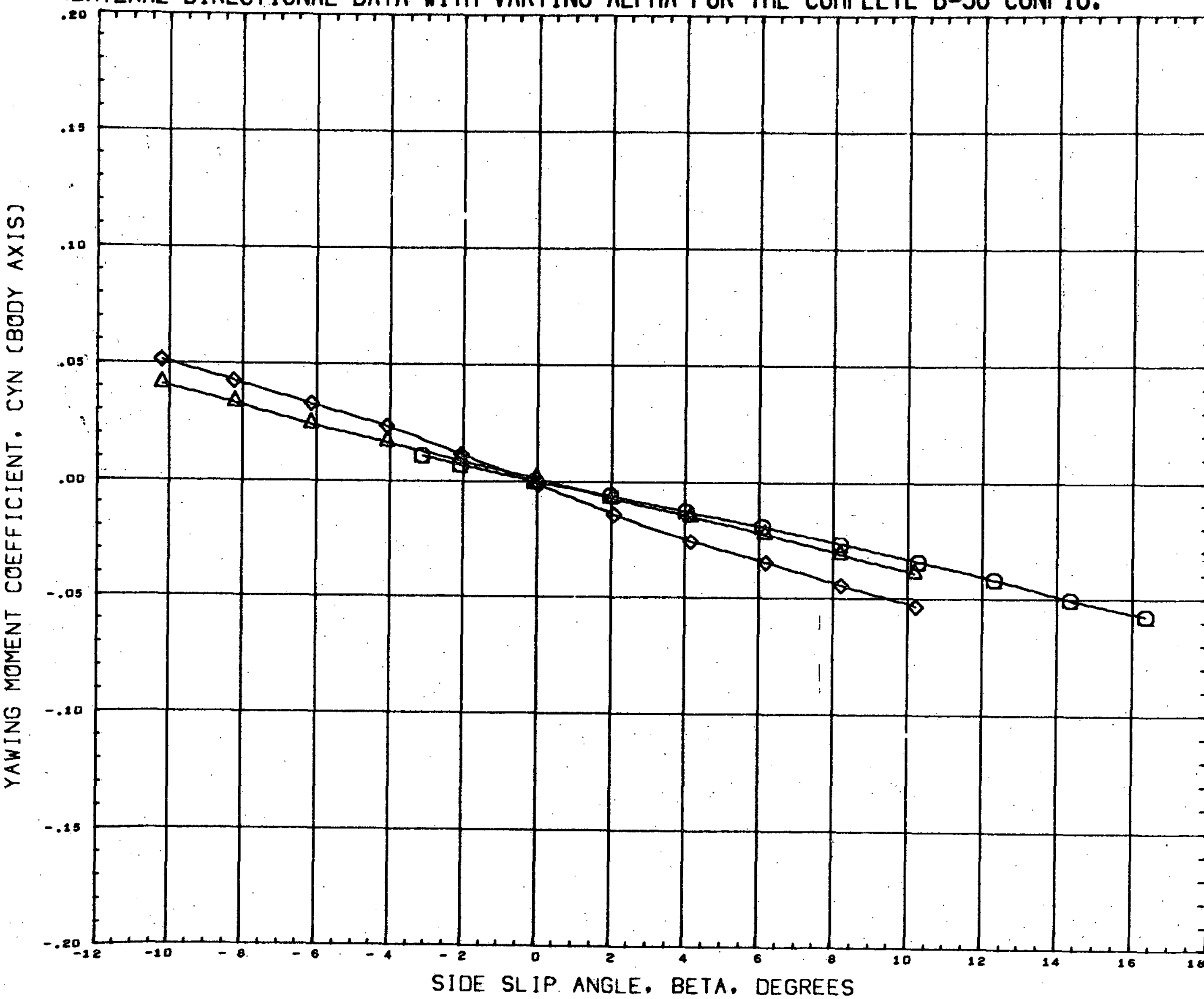
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.950

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.

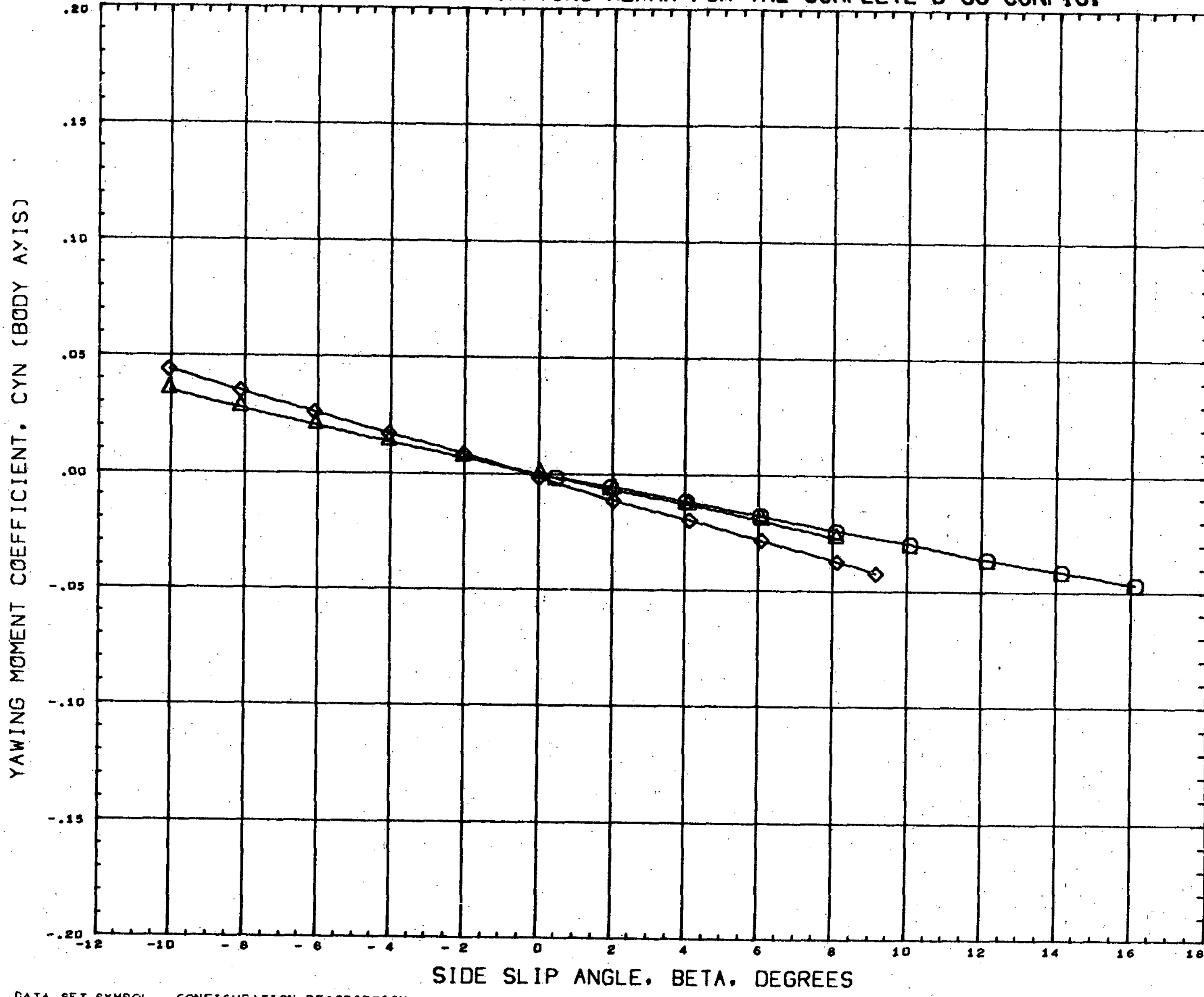


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C	B25W19C8V1D	ALPHA=0	C=0	R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	MSFC TWT-493 GD/C	B25W19C8V1D	ALPHA=6	C=0	R=0	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C	B25W19C8V1D	ALPHA=15	C=0	R=0	15.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.



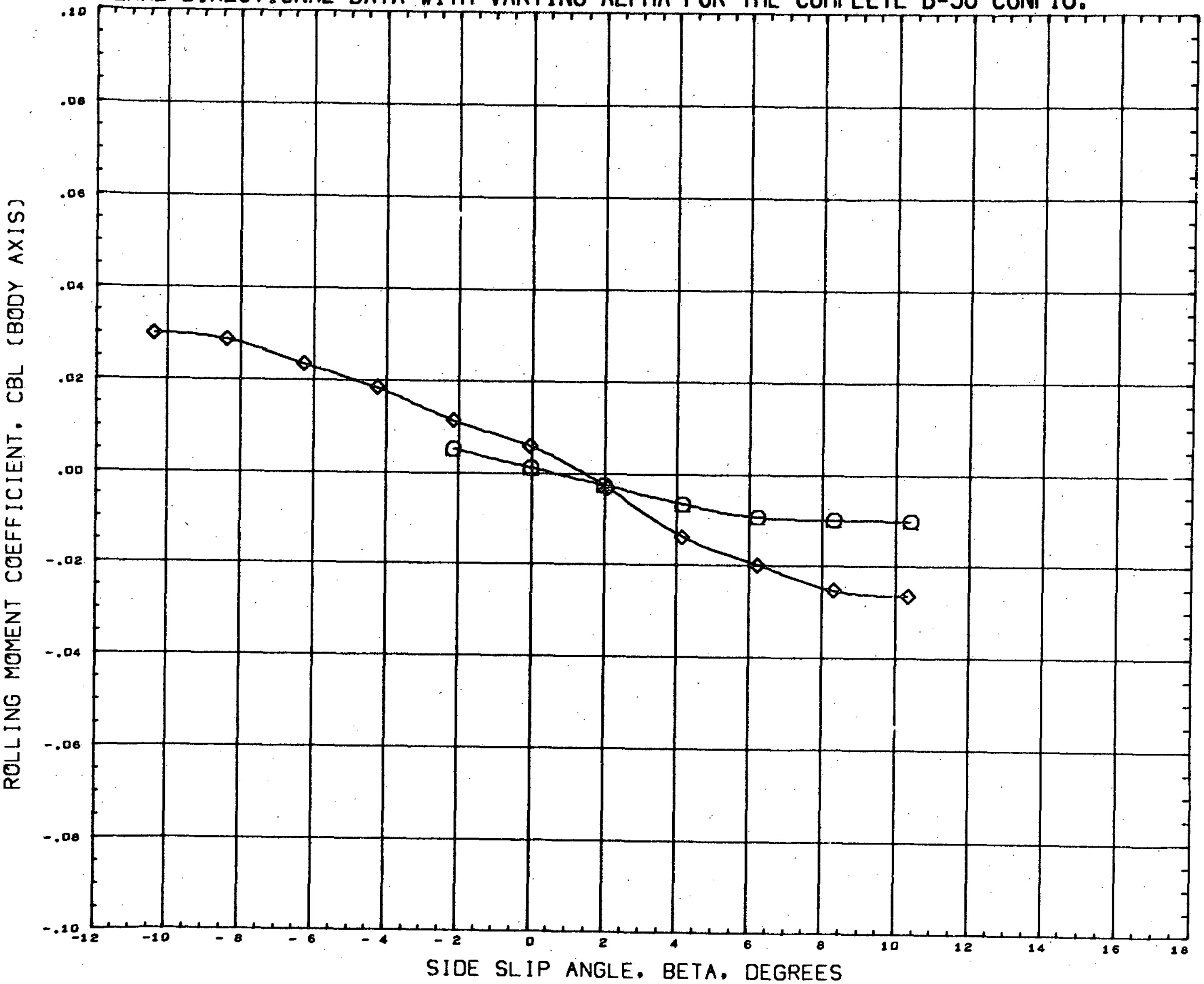
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0	C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=6	C=0 R=0	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=15	C=0 R=0	15.000	0.000	0.000	0.000

MACH 4.959

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.



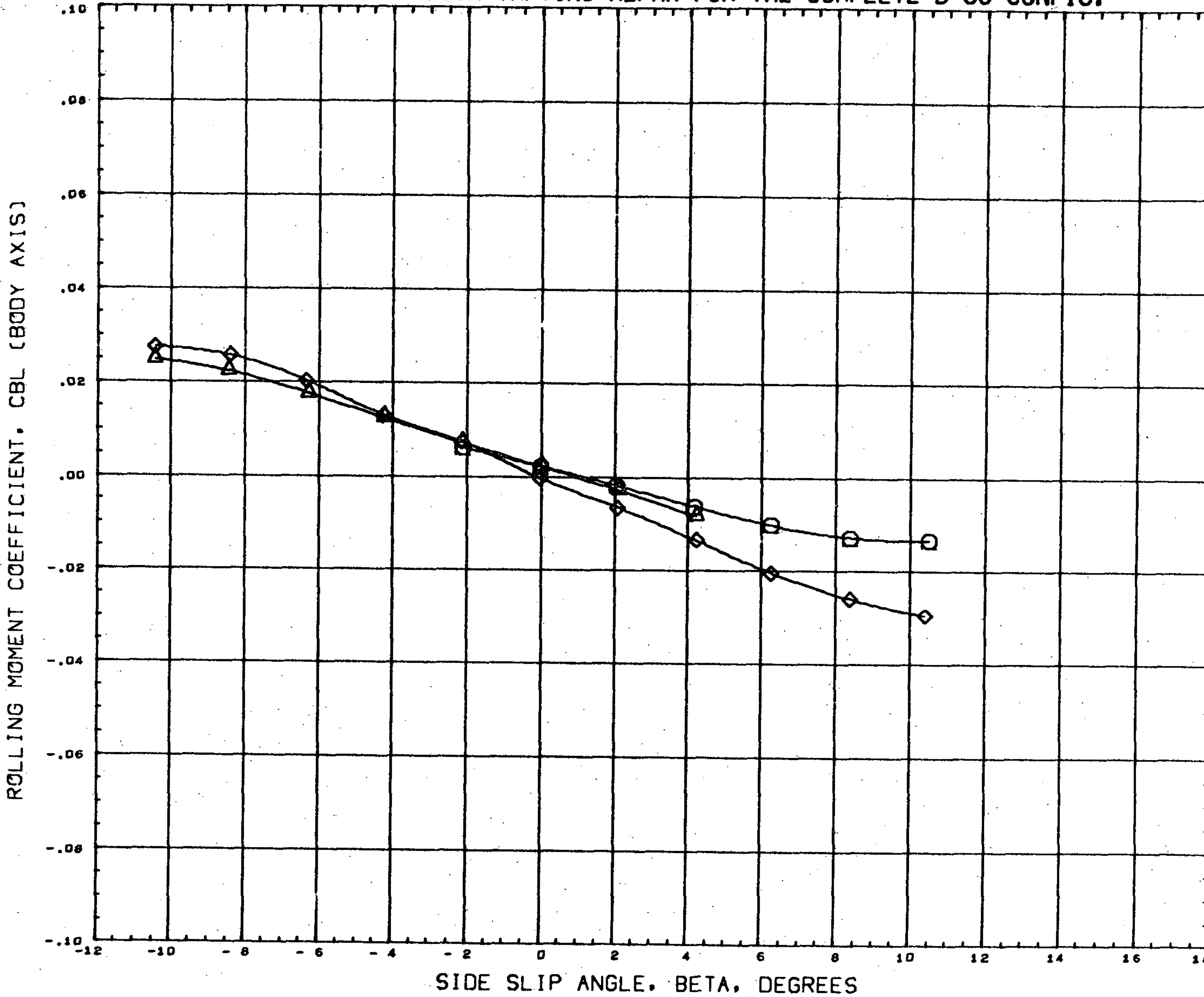
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALFHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALFHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 0.996

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.



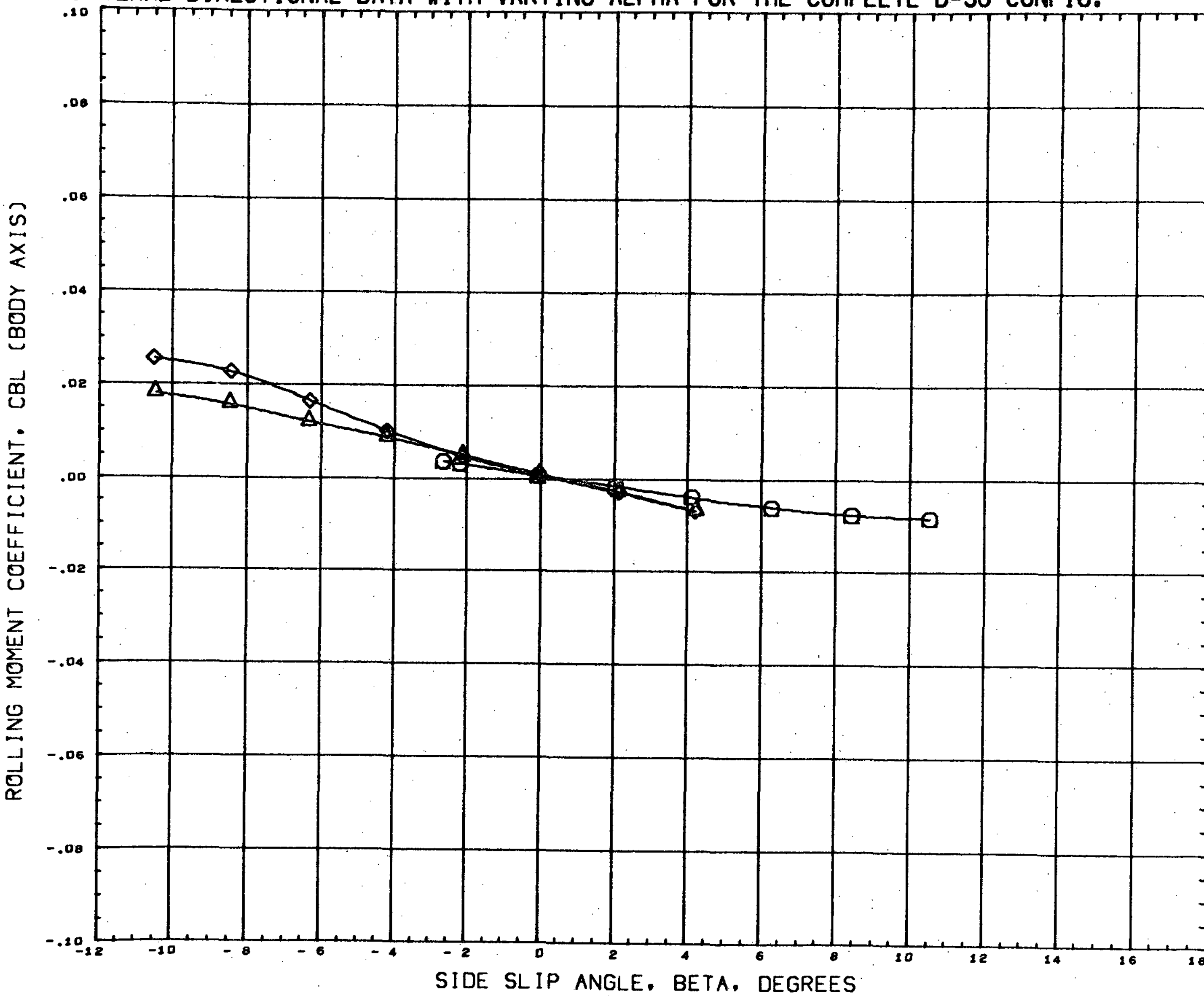
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=6 C=0 R=0	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 1.197

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.

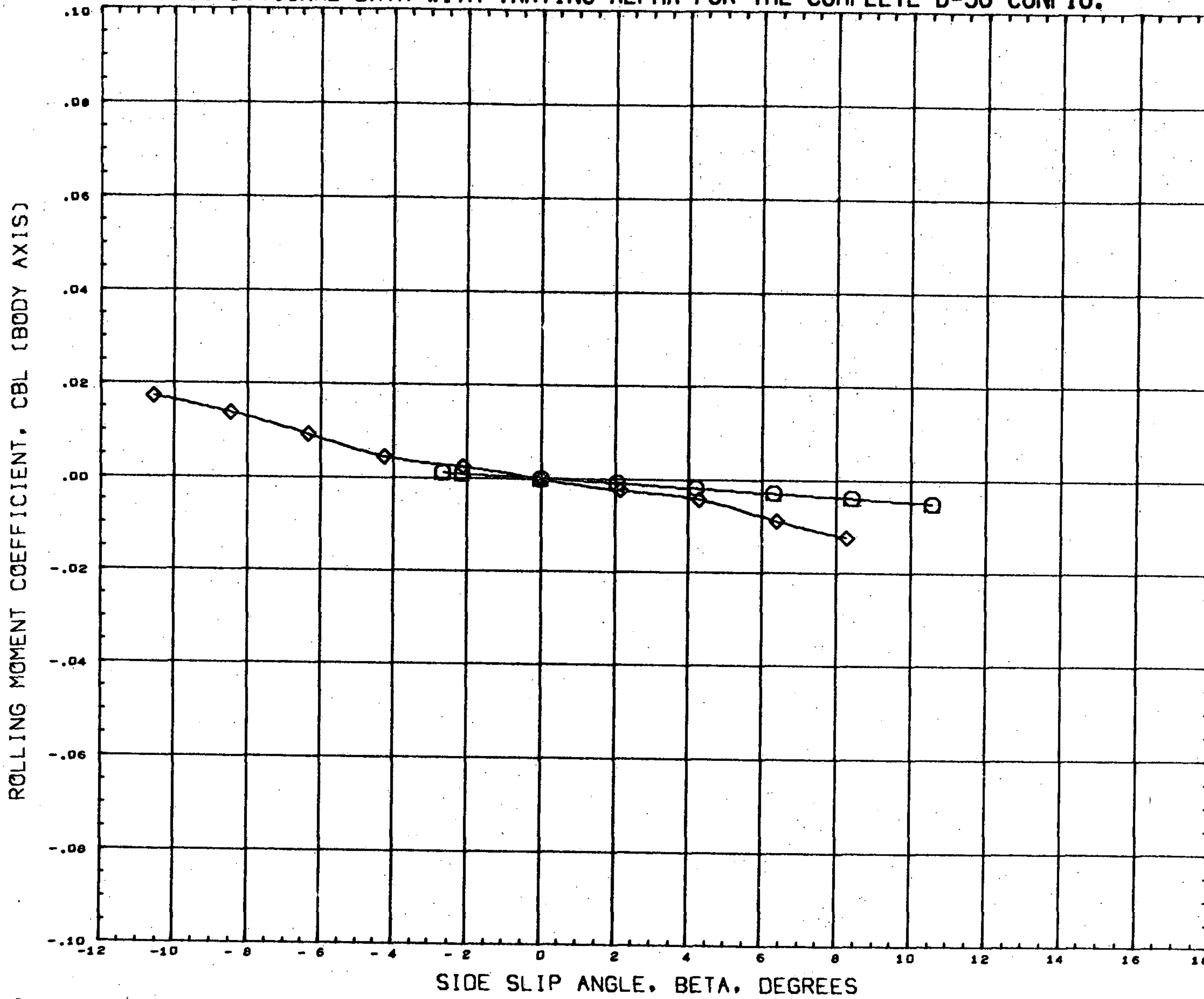


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0	C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=6	C=0 R=0	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=15	C=0 R=0	15.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.464

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.



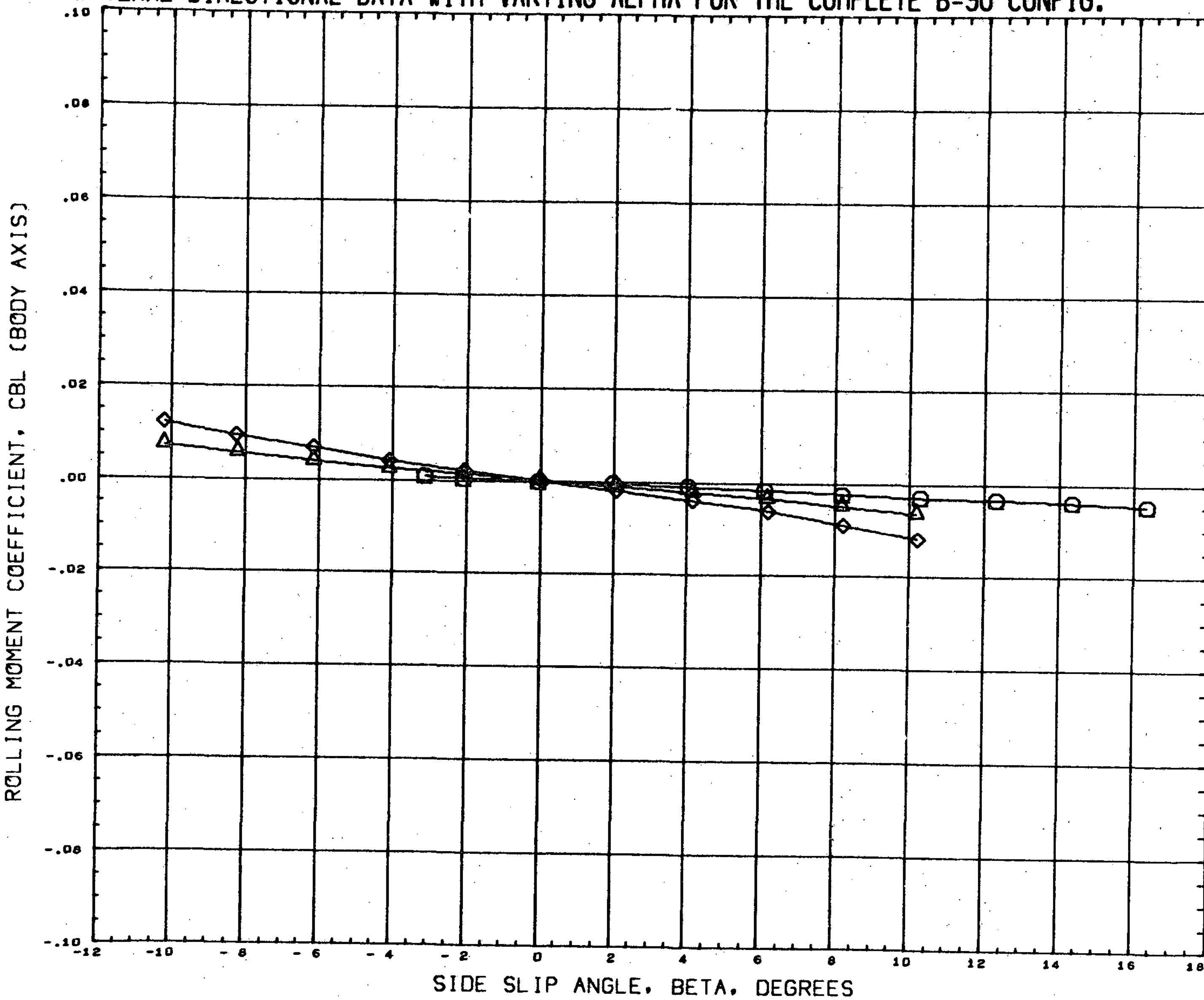
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 1.950

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.

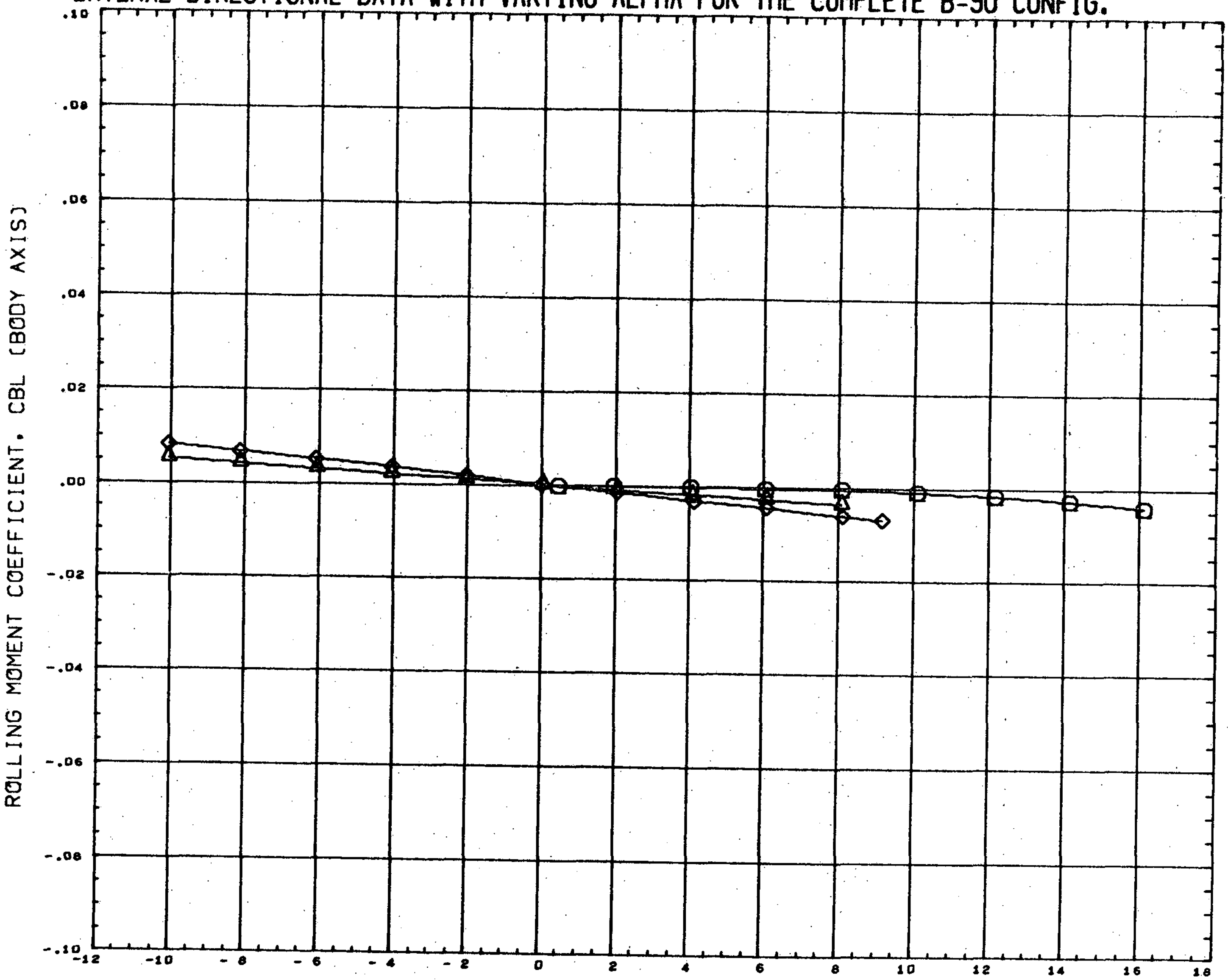


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(B35TDA)	○	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=6 C=0 R=0	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE COMPLETE B-9U CONFIG.



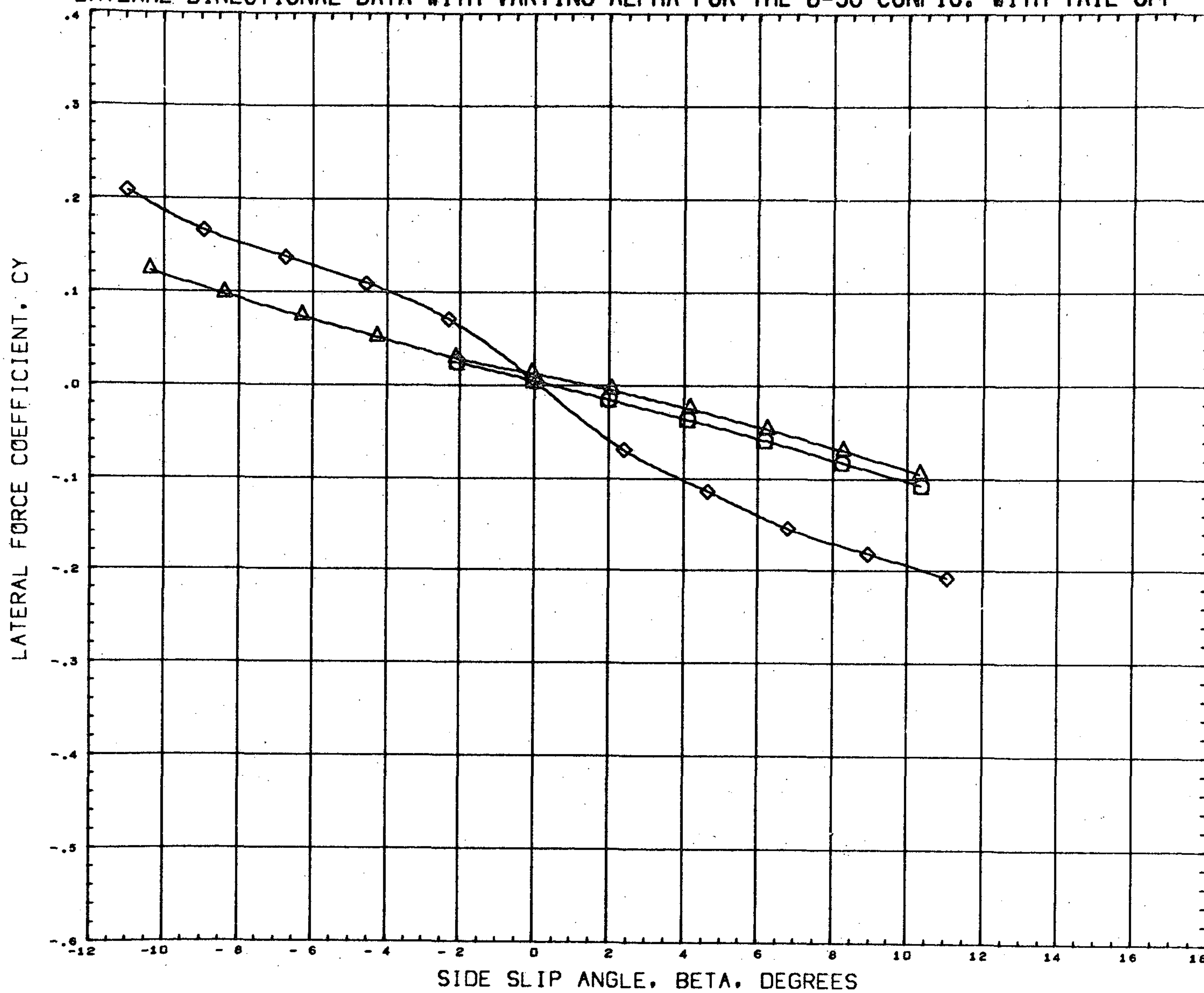
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ALPHA	ELEVON	CANARD	RUDDER
(B35TCA)	○	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0	C=0 R=0	0.000	0.000	0.000	0.000
(A35TCD)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=6	C=0 R=0	6.000	0.000	0.000	0.000
(A35TCC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=15	C=0 R=0	15.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.959

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF



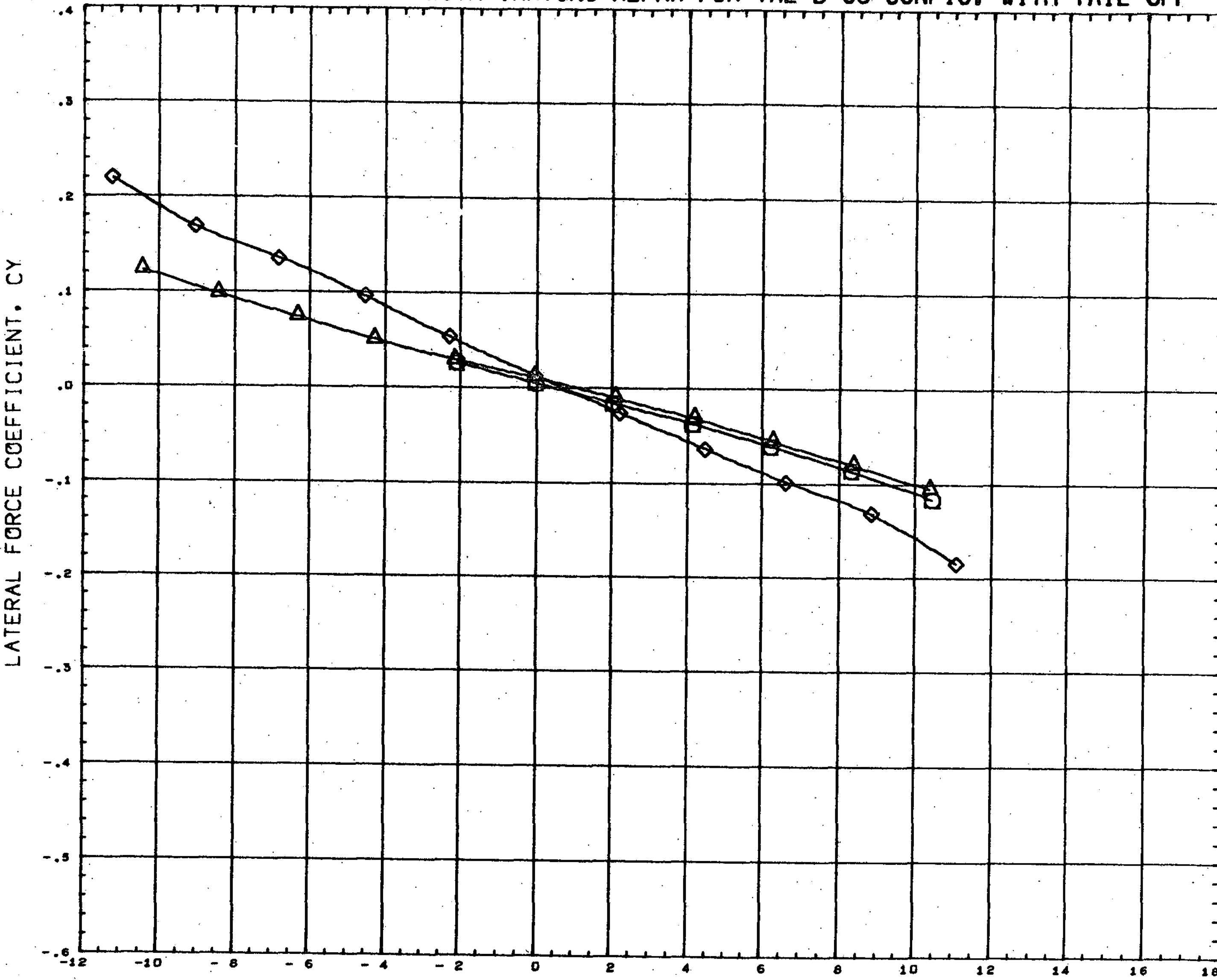
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=0 C=DR=DF	0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=DR=DF	15.000	0.000	0.000	0.000
(B350CB)	◇	MSFC TWT-493 GD/C B25W19C8	ALPHA=25 C=D R=D	25.000	0.000	0.000	0.000
(B350CA)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS		30.000	0.000	0.000	0.000

MACH 1.004

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF



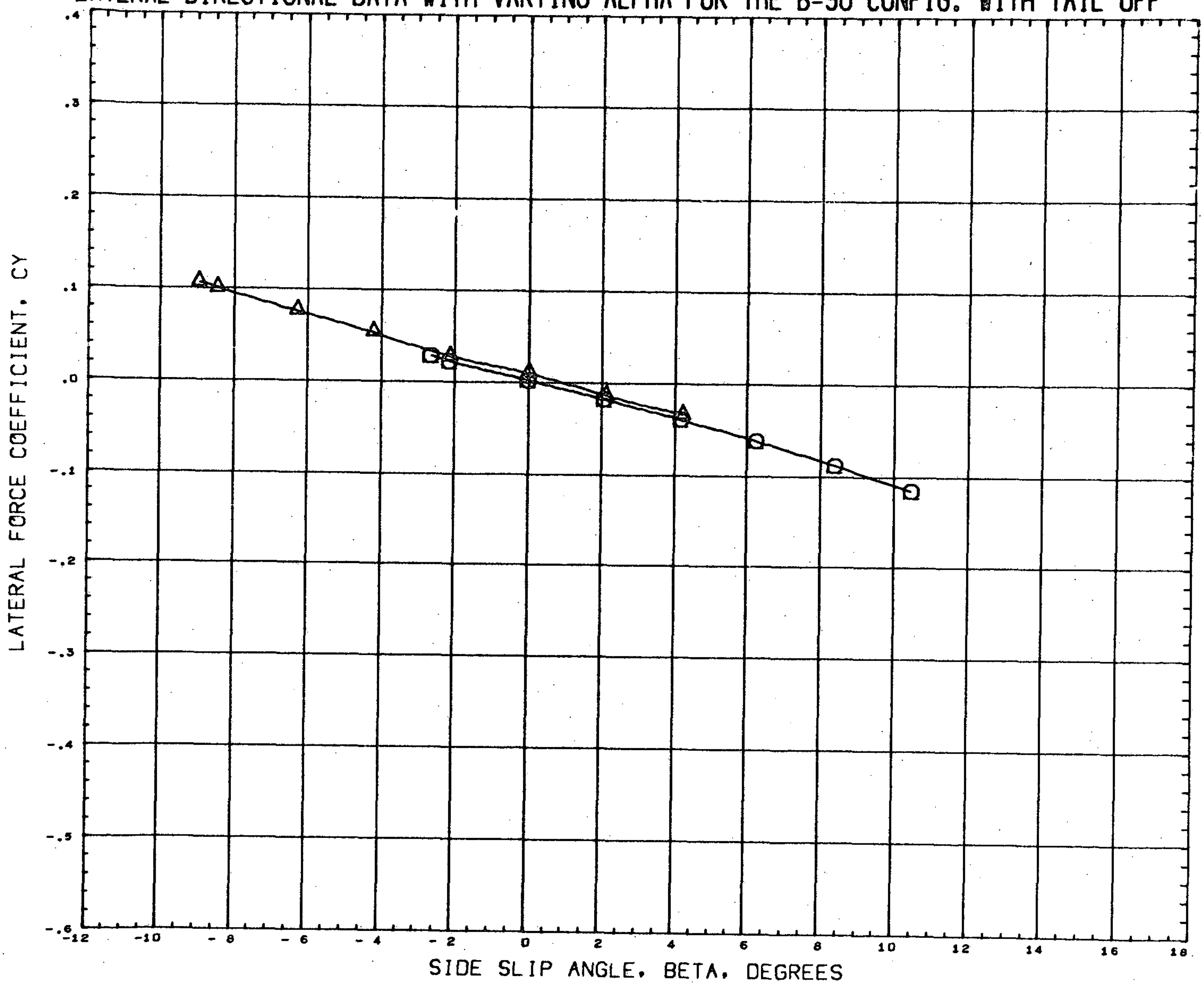
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=0 C=0R=0F	0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000	0.000	0.000	0.000
(B350CB)	◇	MSFC TWT-493 GD/C B25W19C8	ALPHA=25 C=0 R=0	25.000	0.000	0.000	0.000
(B350CA)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS		30.000	0.000	0.000	0.000

MACH 1.196

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF



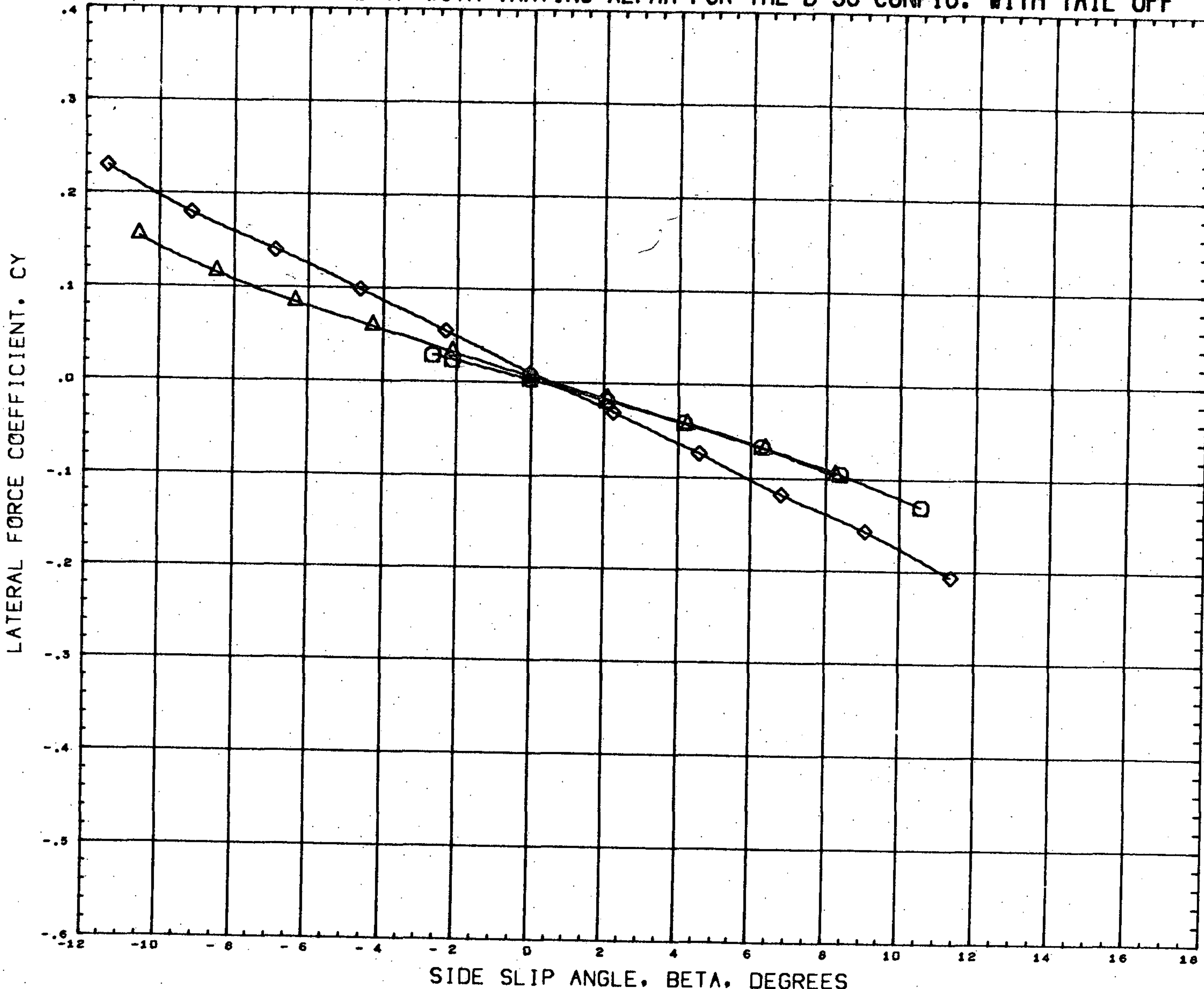
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=0	C=DR=DF	0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C B25W19C8	ALPHA=15	C=DR=DF	15.000	0.000	0.000	0.000
(B350CB)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS			25.000	0.000	0.000	0.000
(B350CA)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS			30.000	0.000	0.000	0.000

MACH 1.466

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF

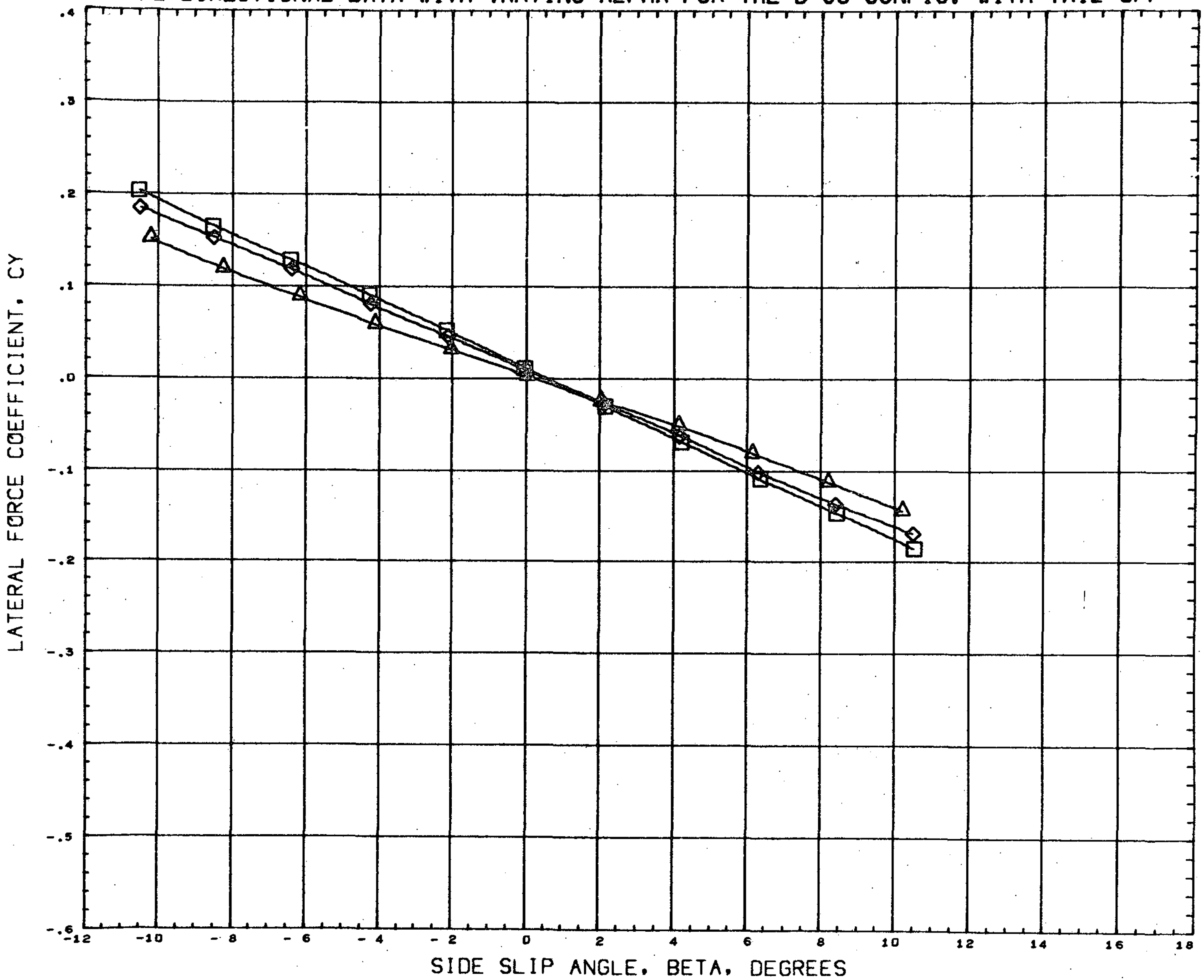


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=0	C=DR=DF	0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C B25W19C8	ALPHA=15	C=DR=DF	15.000	0.000	0.000	0.000
(B350CB)	◇	MSFC TWT-493 GD/C B25W19C8	ALPHA=25	C=D R=D	25.000	0.000	0.000	0.000
(B350CA)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS			30.000	0.000	0.000	0.000

MACH 1.950

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS		0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000	0.000	0.000	0.000
(B350CB)	◇	MSFC TWT-493 GD/C B25W19C8	ALPHA=25 C=0 R=0	25.000	0.000	0.000	0.000
(B350CA)	□	MSFC TWT-493 GD/C B25W19C8	ALPHA=30 C=0 R=0	30.000	0.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

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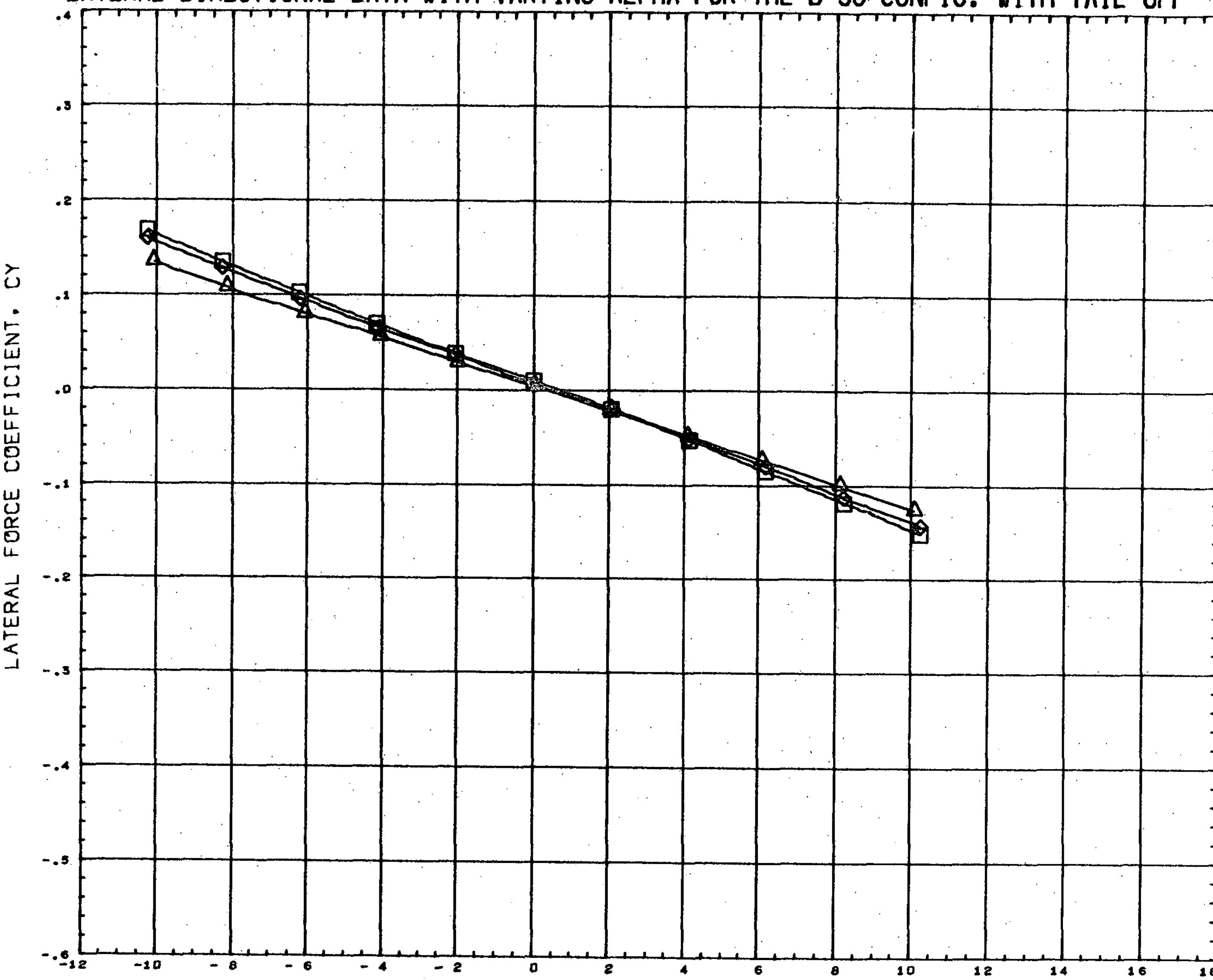
LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF

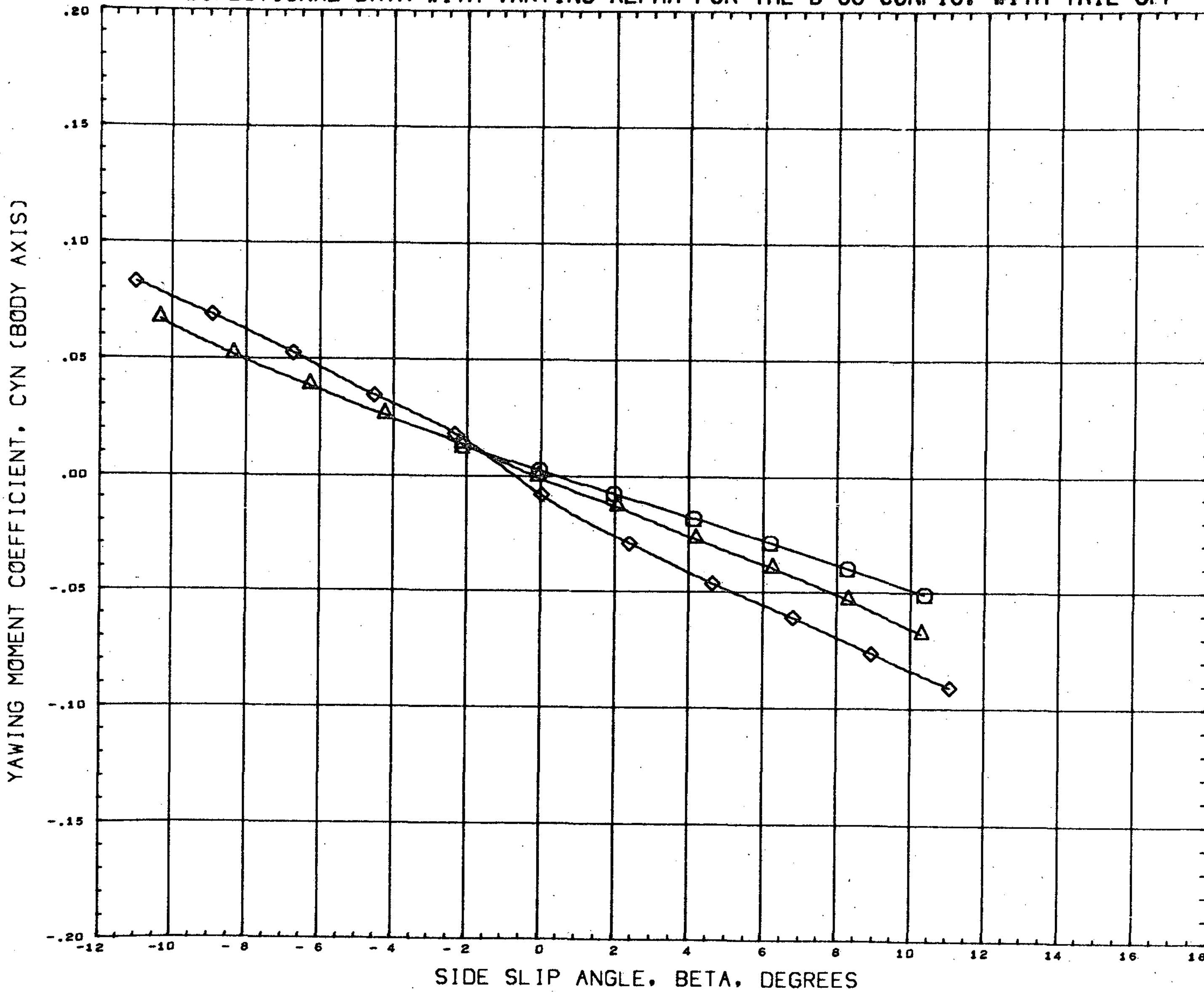


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS		0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000	0.000	0.000	0.000
(B350CB)	◇	MSFC TWT-493 GD/C B25W19C8	ALPHA=25 C=0 R=0	25.000	0.000	0.000	0.000
(B350CA)	□	MSFC TWT-493 GD/C B25W19C8	ALPHA=30 C=0 R=0	30.000	0.000	0.000	0.000

MACH 4.959

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=0 C=0R=0F	0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000	0.000	0.000	0.000
(B350CB)	◇	MSFC TWT-493 GD/C B25W19C8	ALPHA=25 C=0 R=0	25.000	0.000	0.000	0.000
(B350CA)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS		30.000	0.000	0.000	0.000

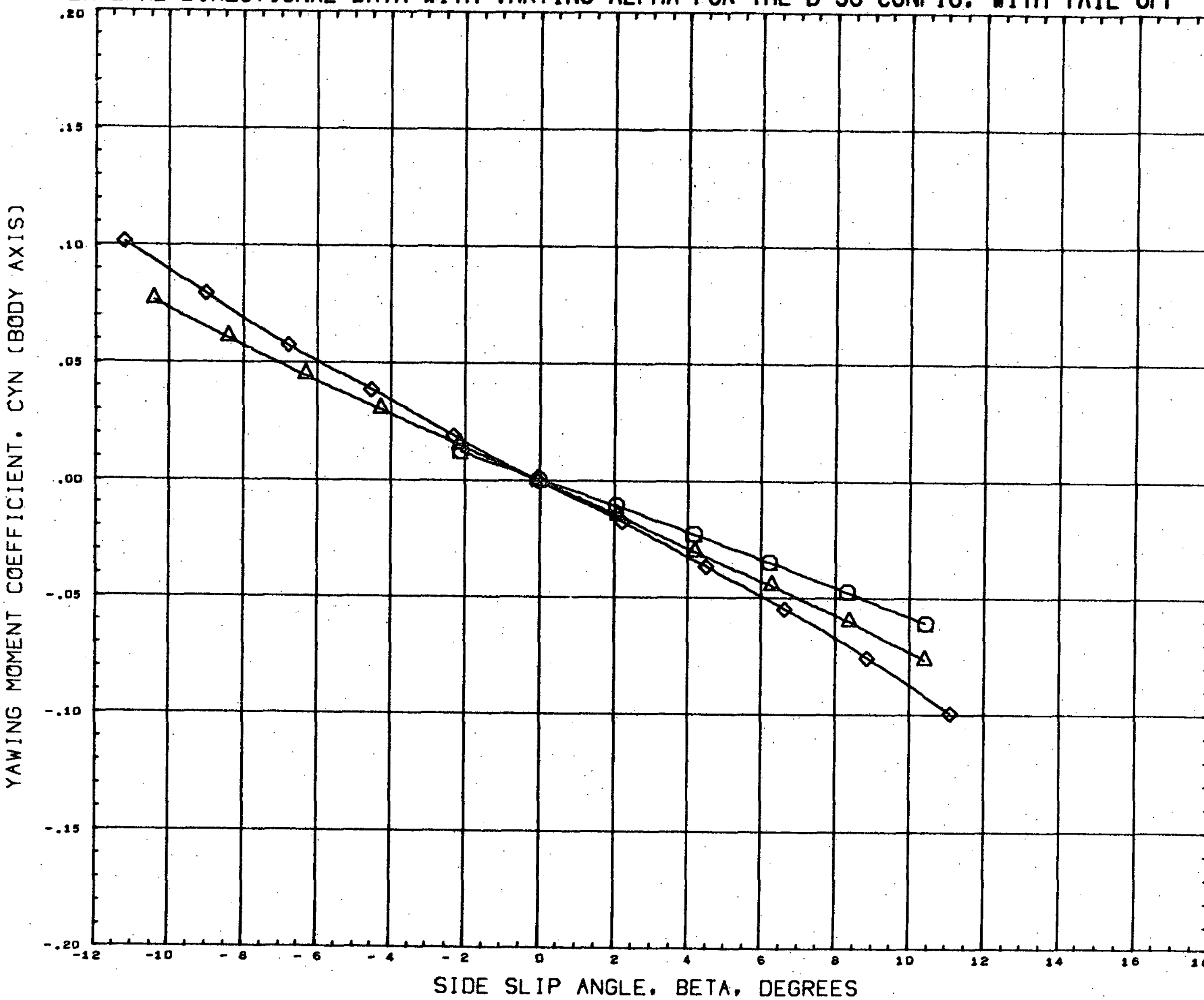
MACH 1.004

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

ORIGINAL PAGE IS
OF POOR QUALITY

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF



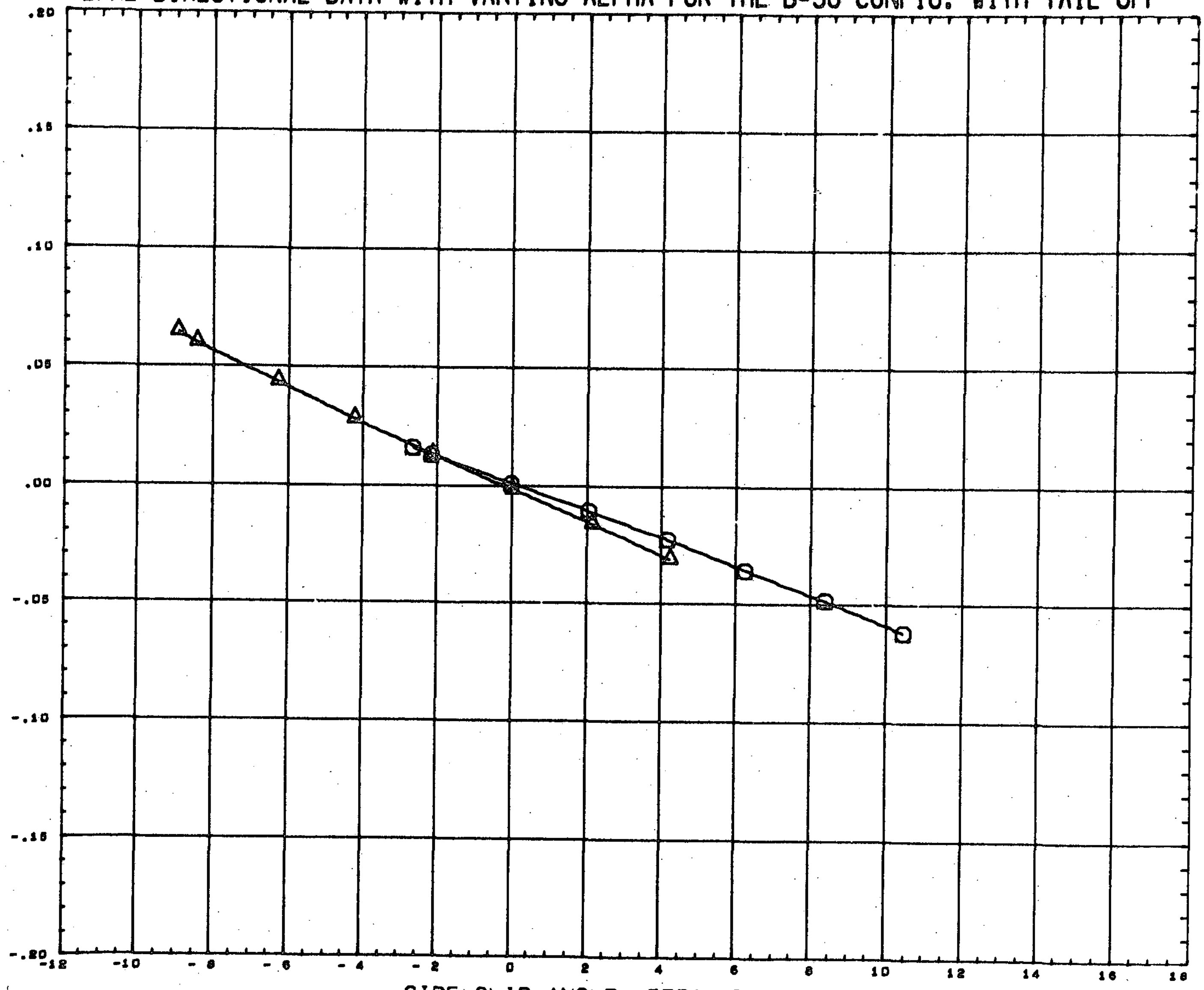
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=0 C=DR=DF	0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=DR=DF	15.000	0.000	0.000	0.000
(B350CB)	◇	MSFC TWT-493 GD/C B25W19C8	ALPHA=25 C=D R=D	25.000	0.000	0.000	0.000
(B350CA)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS		30.000	0.000	0.000	0.000

MACH 1.196

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF



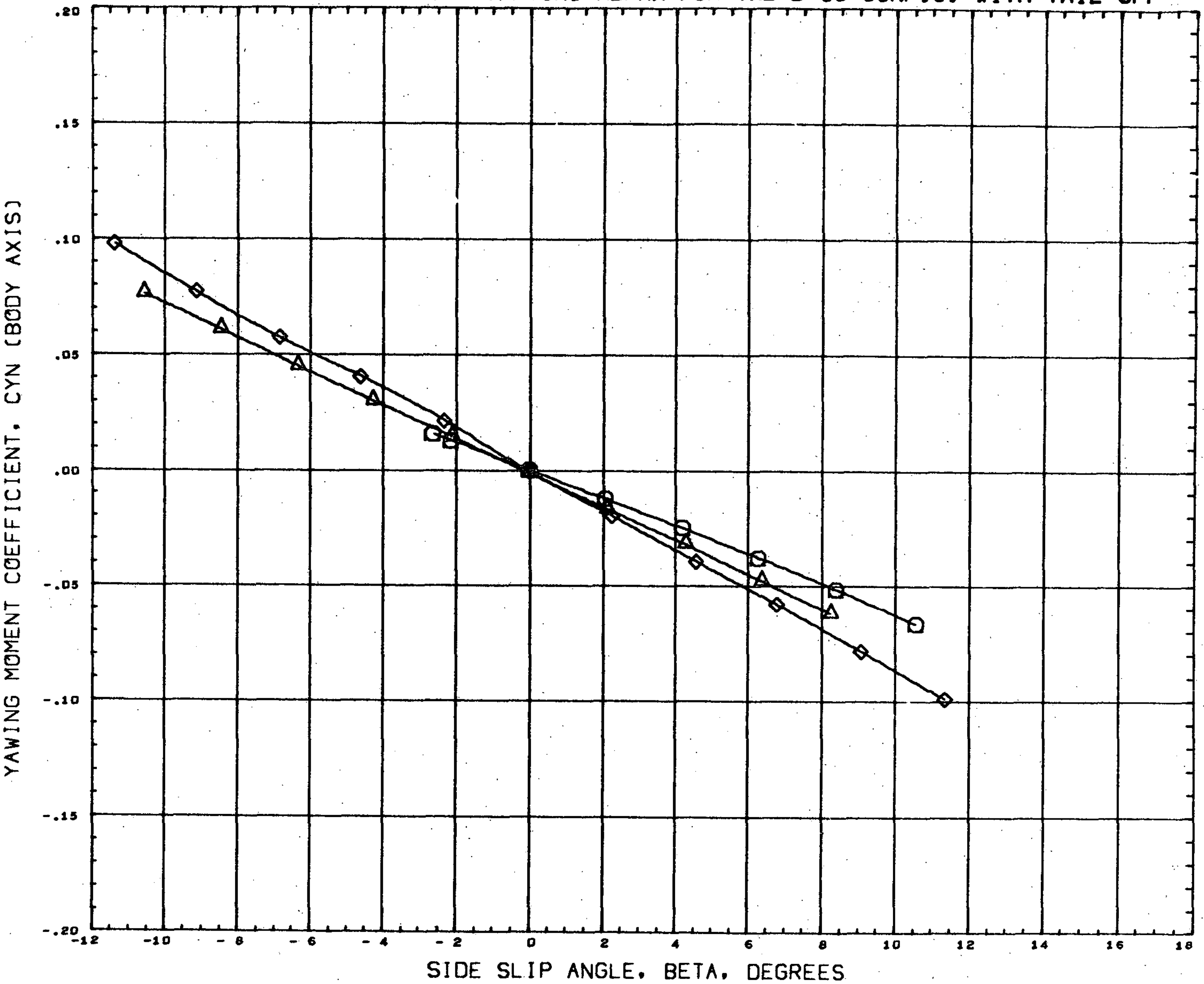
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=0	C=DR=DF	0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C B25W19C8	ALPHA=15	C=DR=DF	15.000	0.000	0.000	0.000
(B350CB)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS			25.000	0.000	0.000	0.000
(B350CA)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS			30.000	0.000	0.000	0.000

MACH 1.466

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF



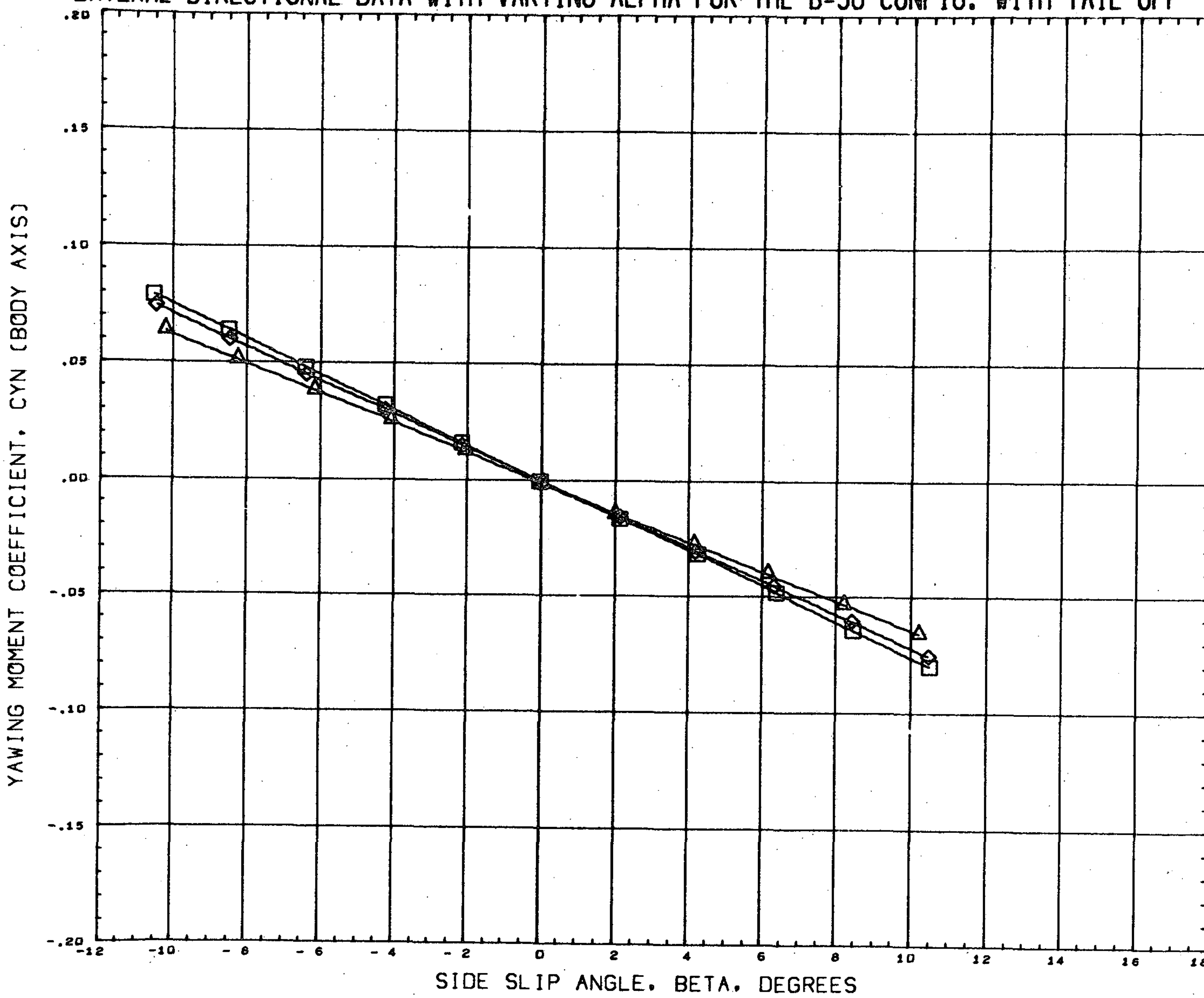
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=0 C=0R=0F	0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=0R=0F	15.000	0.000	0.000	0.000
(B350CB)	◇	MSFC TWT-493 GD/C	B25W19C8	ALPHA=25 C=0 R=0	25.000	0.000	0.000	0.000
(B350CA)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS			30.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.950

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF



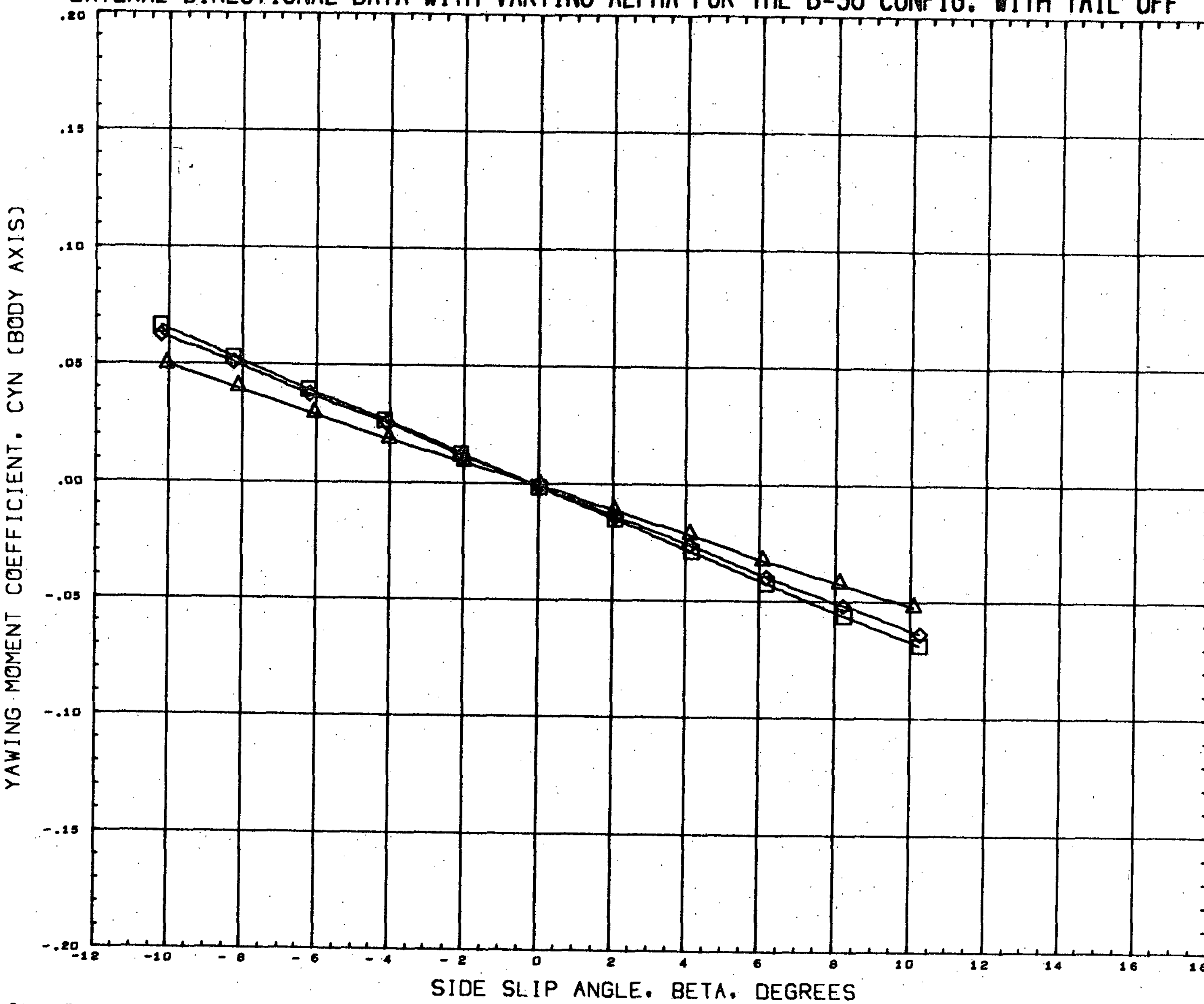
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=DR=DF	15.000	0.000	0.000	0.000
(B350CB)	◇	MSFC TWT-493 GD/C	B25W19C8	ALPHA=25 C=0 R=0	25.000	0.000	0.000	0.000
(B350CA)	□	MSFC TWT-493 GD/C	B25W19C8	ALPHA=30 C=0 R=0	30.000	0.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF



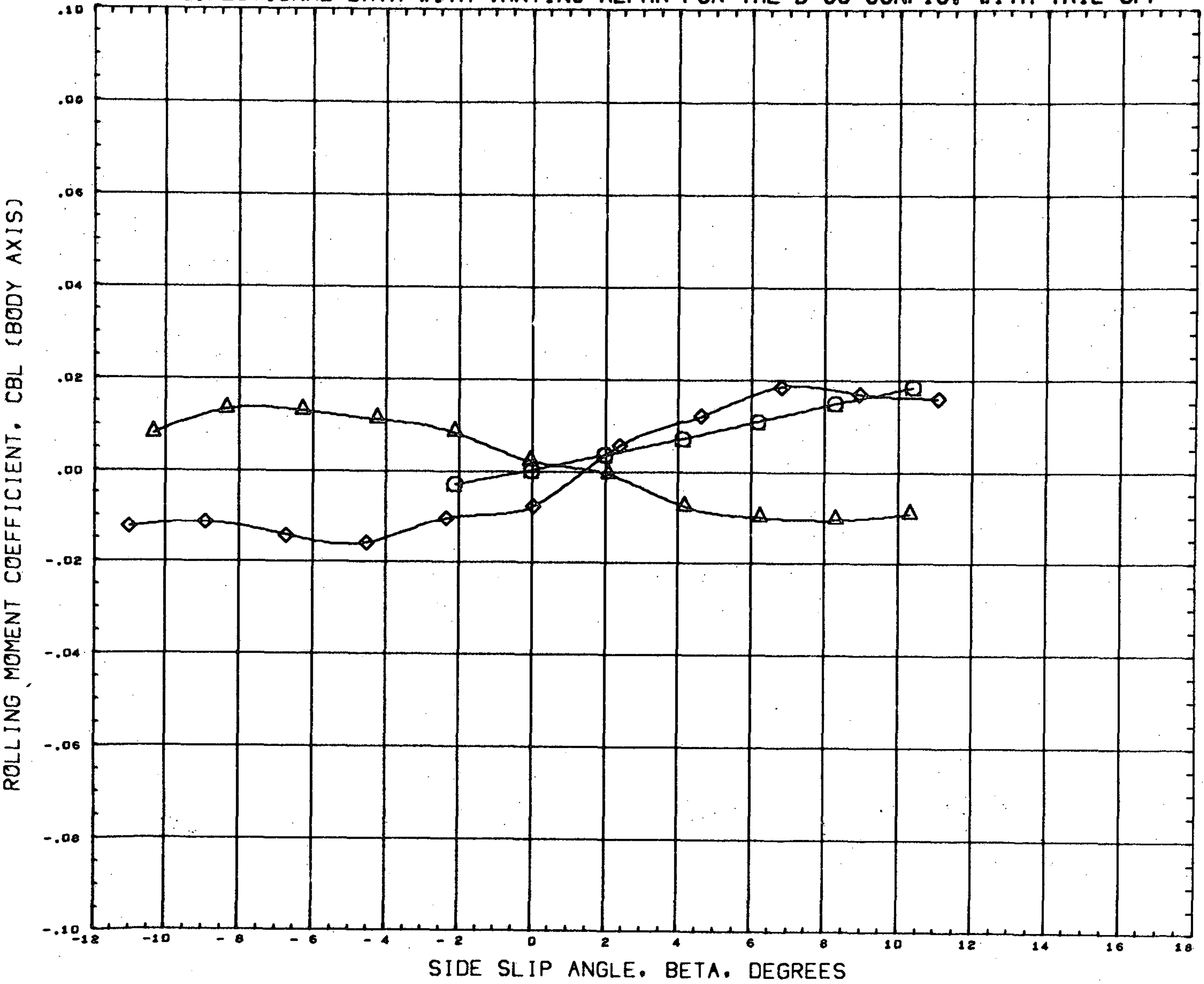
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS		0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=DR=DF	15.000	0.000	0.000	0.000
(B350CB)	◇	MSFC TWT-493 GD/C B25W19C8	ALPHA=25 C=0 R=0	25.000	0.000	0.000	0.000
(B350CA)	□	MSFC TWT-493 GD/C B25W19C8	ALPHA=30 C=0 R=0	30.000	0.000	0.000	0.000

MACH 4.959

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF



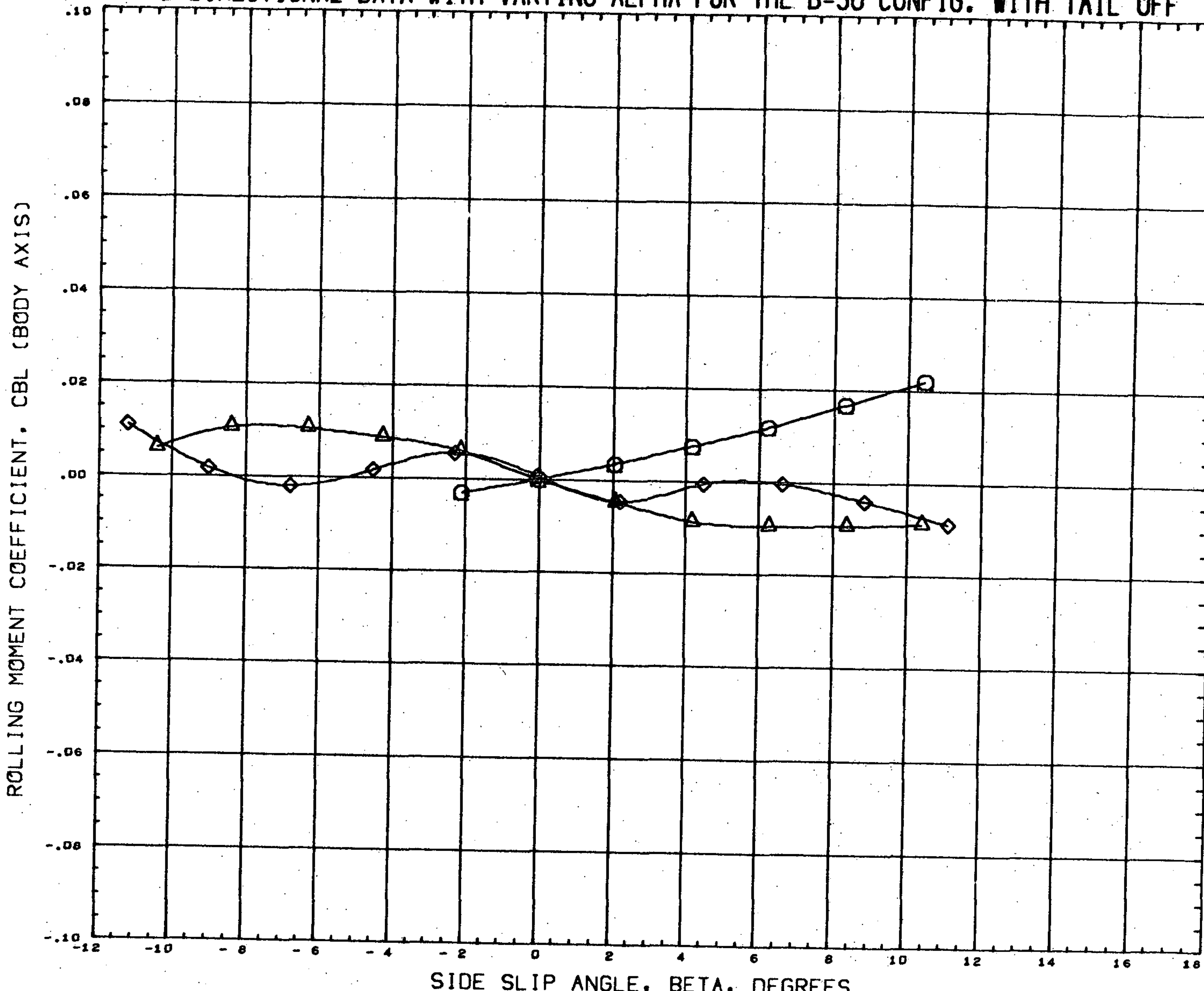
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=0 C=0R=0F	0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000	0.000	0.000	0.000
(B350CB)	◇	MSFC TWT-493 GD/C B25W19C8	ALPHA=25 C=0 R=0	25.000	0.000	0.000	0.000
(B350CA)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS		30.000	0.000	0.000	0.000

MACH 1.004

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF



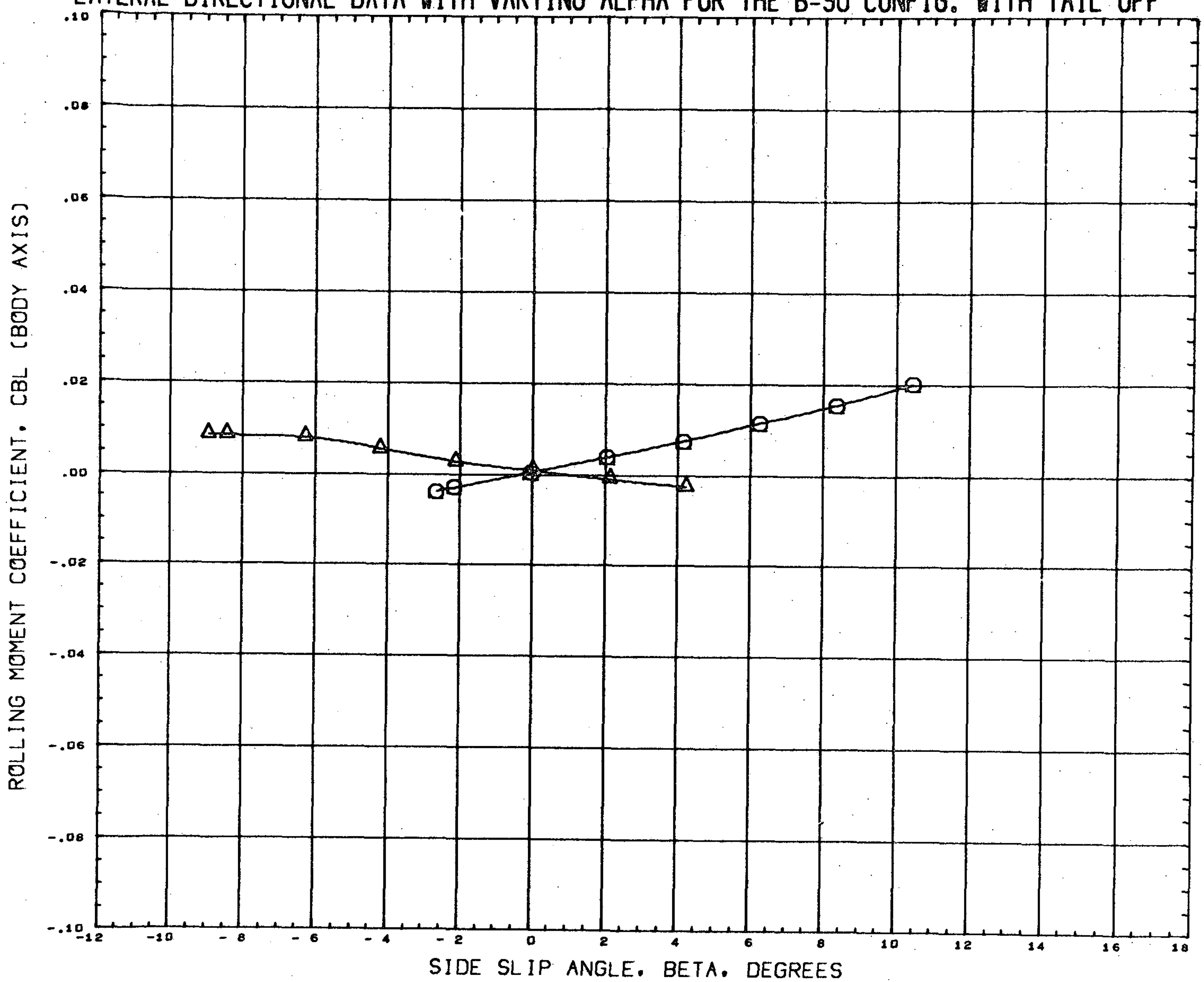
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A350OA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=0 C=0R=0F	0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=0R=0F	15.000	0.000	0.000	0.000
(B350CB)	◇	MSFC TWT-493 GD/C	B25W19C8	ALPHA=25 C=0 R=0	25.000	0.000	0.000	0.000
(B350CA)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS			30.000	0.000	0.000	0.000

MACH 1.196

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF



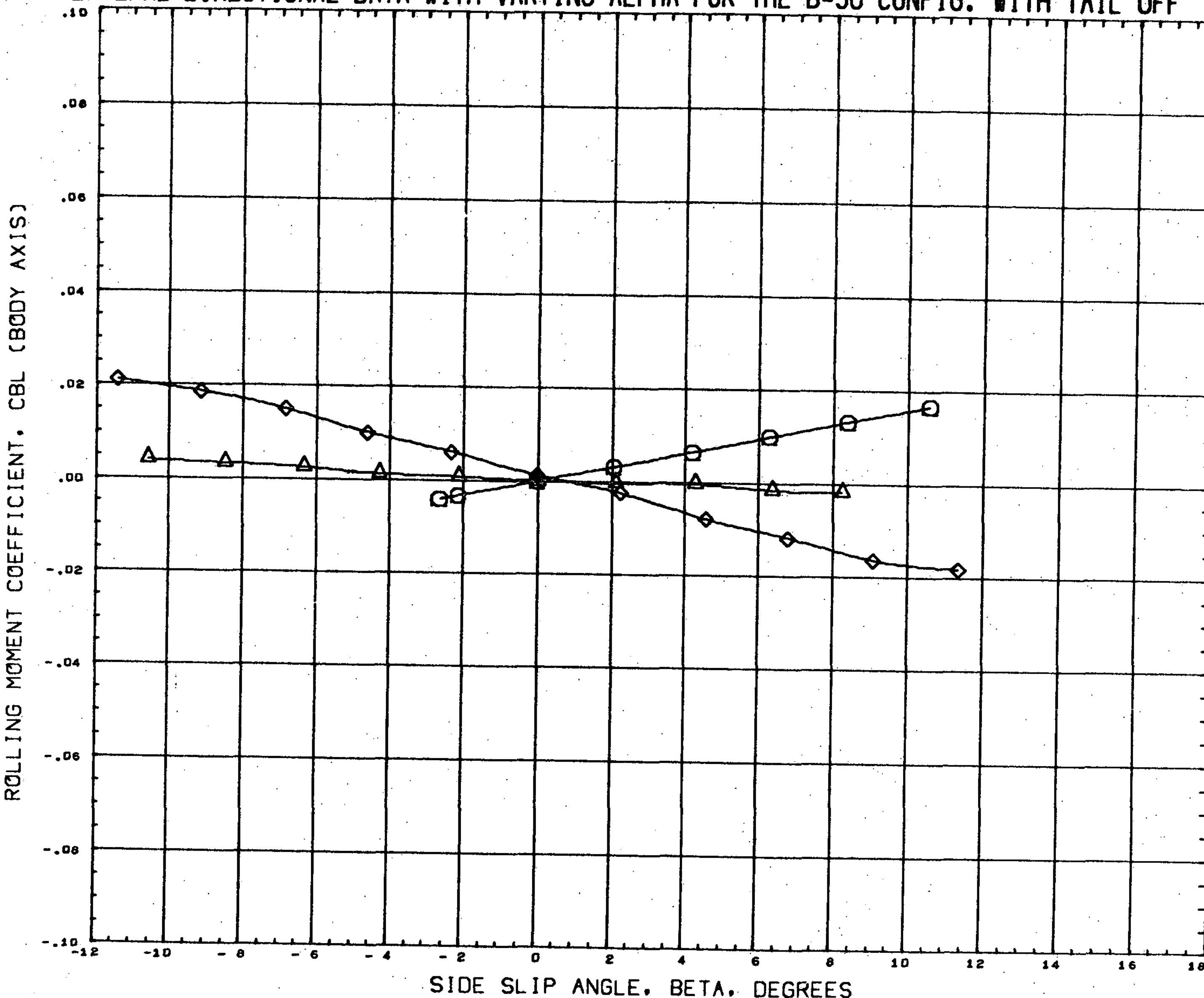
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=0	C=0R=0F	0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C B25W19C8	ALPHA=15	C=0R=0F	15.000	0.000	0.000	0.000
(B350CB)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS			25.000	0.000	0.000	0.000
(B350CA)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS			30.000	0.000	0.000	0.000

MACH 1.466

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF



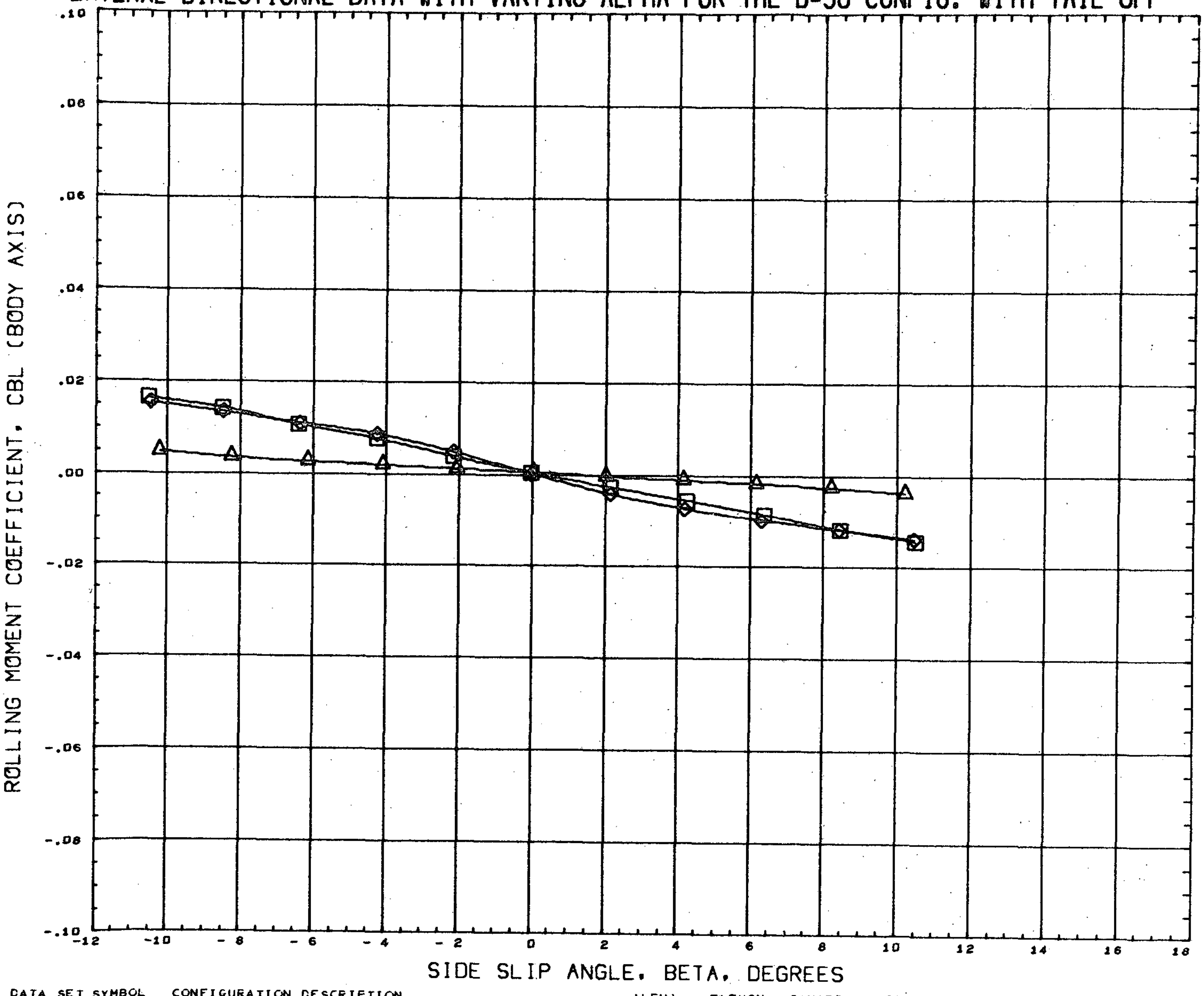
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=0 C=DR=DF	0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=DR=DF	15.000	0.000	0.000	0.000
(B350CB)	◇	MSFC TWT-493 GD/C B25W19C8	ALPHA=25 C=D R=D	25.000	0.000	0.000	0.000
(B350CA)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS		30.000	0.000	0.000	0.000

MACH 1.950

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF



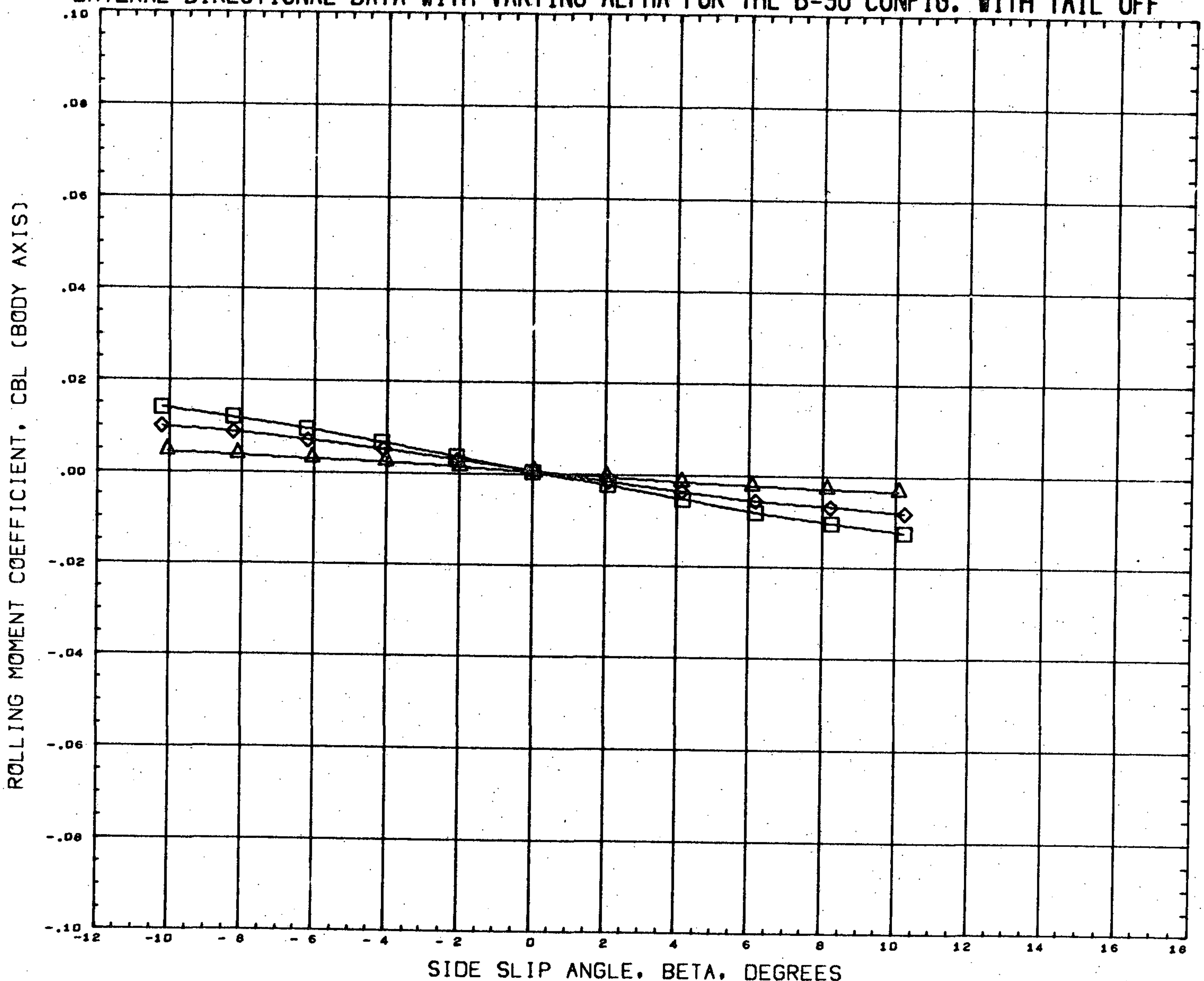
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000	0.000	0.000
(A350CC)	△	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=DR=DF	15.000	0.000	0.000	0.000
(B350CB)	◇	MSFC TWT-493 GD/C	B25W19C8	ALPHA=25 C=D R=D	25.000	0.000	0.000	0.000
(B350CA)	□	MSFC TWT-493 GD/C	B25W19C8	ALPHA=30 C=D R=D	30.000	0.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING ALPHA FOR THE B-9U CONFIG. WITH TAIL OFF

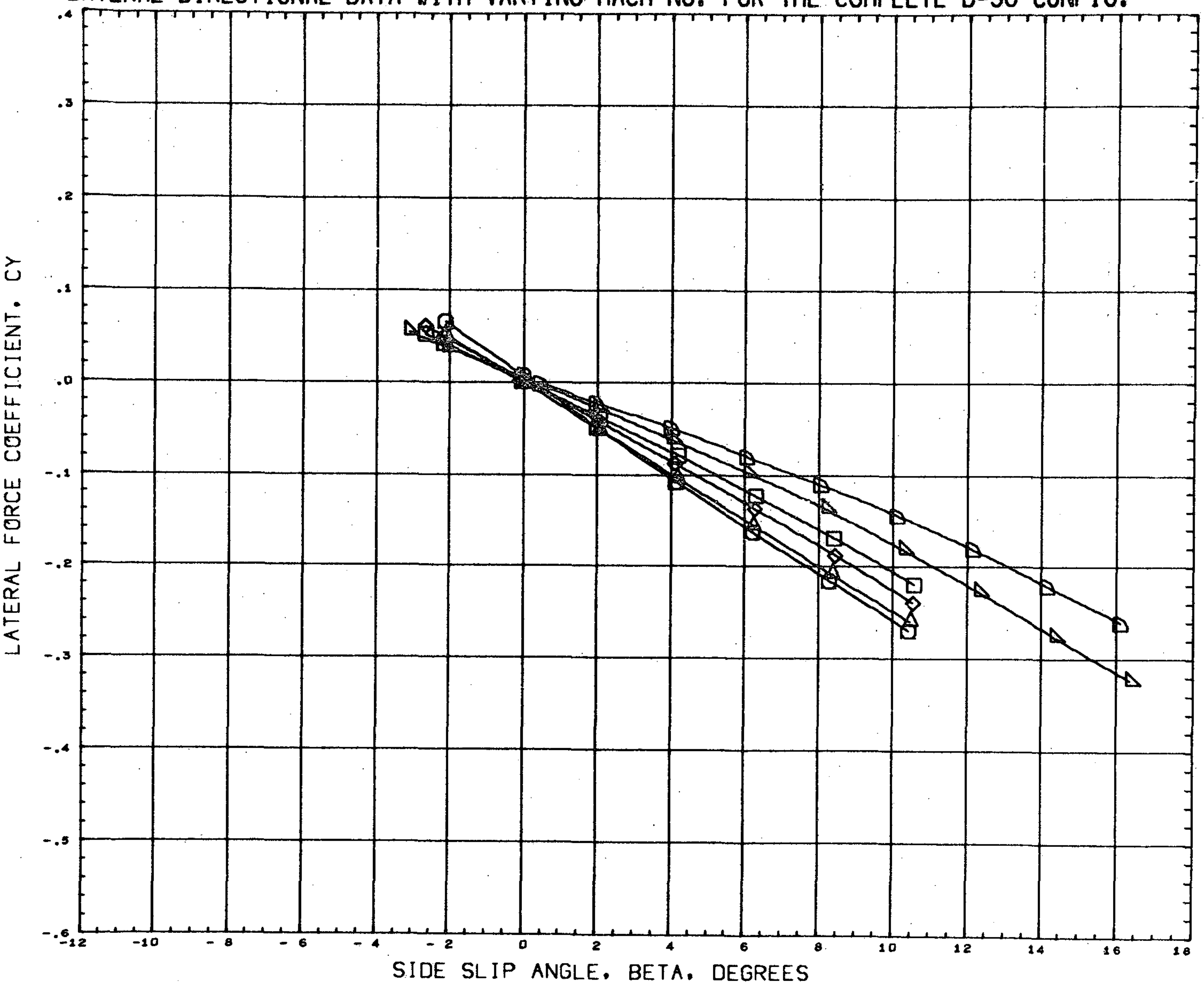


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS					
(A350CC)	△	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=OR=OF	0.000	0.000	0.000	0.000
(B350CB)	◇	MSFC TWT-493 GD/C B25W19C8	ALPHA=25 C=0 R=0	15.000	0.000	0.000	0.000
(B350CA)	□	MSFC TWT-493 GD/C B25W19C8	ALPHA=30 C=0 R=0	25.000	0.000	0.000	0.000
				30.000	0.000	0.000	0.000

MACH 4.959

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE COMPLETE B-9U CONFIG.



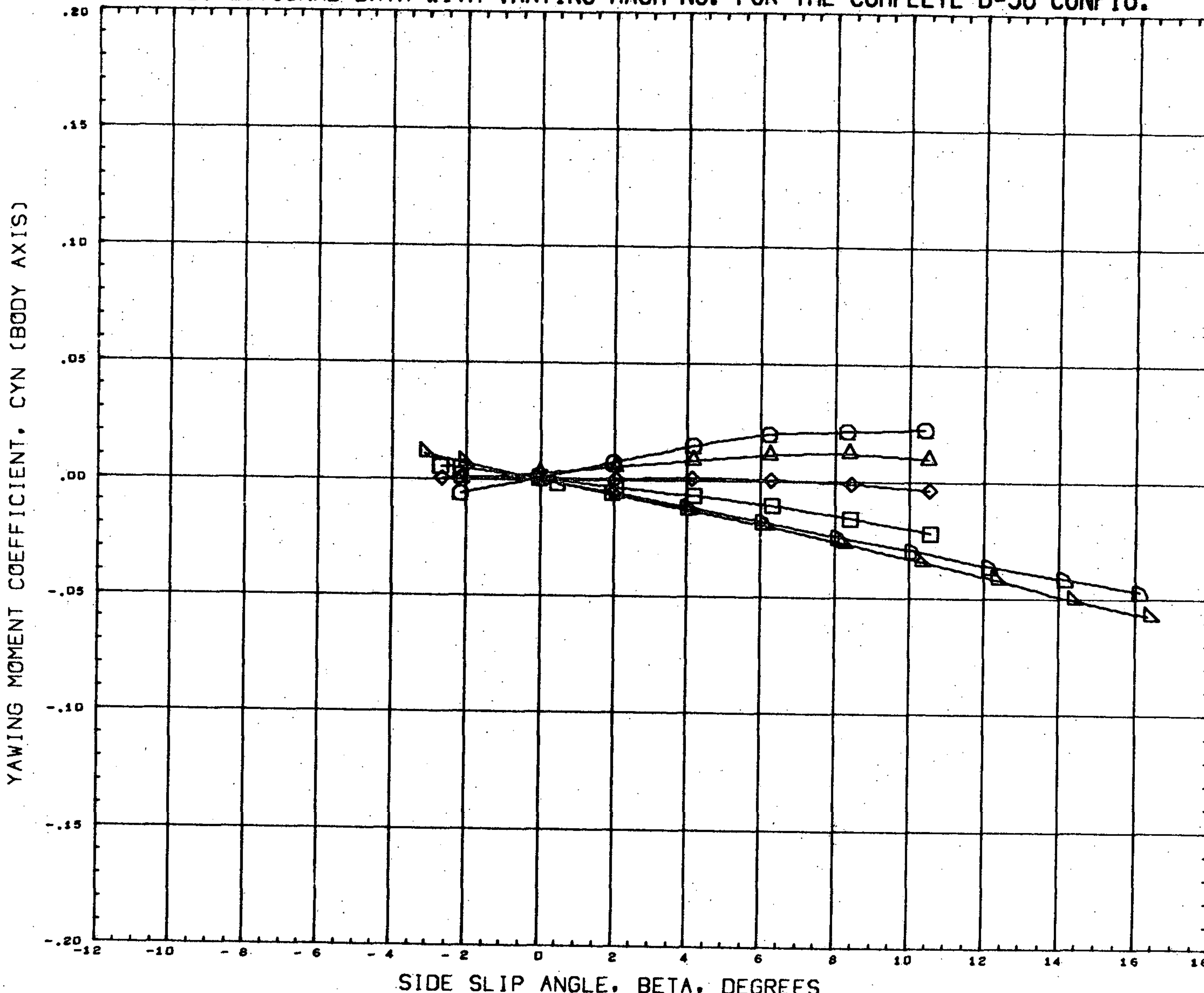
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.996	ALPHA	0.000	ELEVON	0.000
△	1.197	CANARD	0.000	RUDDER	0.000
◇	1.464				
□	1.950				
◺	2.990				
D	4.959	DATA HIST. CODE	#A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0 (B35TDA) 22 SEP 71

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE COMPLETE B-9U CONFIG.



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.996	ALPHA	0.000	ELEVON	0.000
△	1.197	CANARD	0.000	RUDDER	0.000
◇	1.464				
□	1.950				
◺	2.990				
◿	4.959	DATA HIST. CODE	*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
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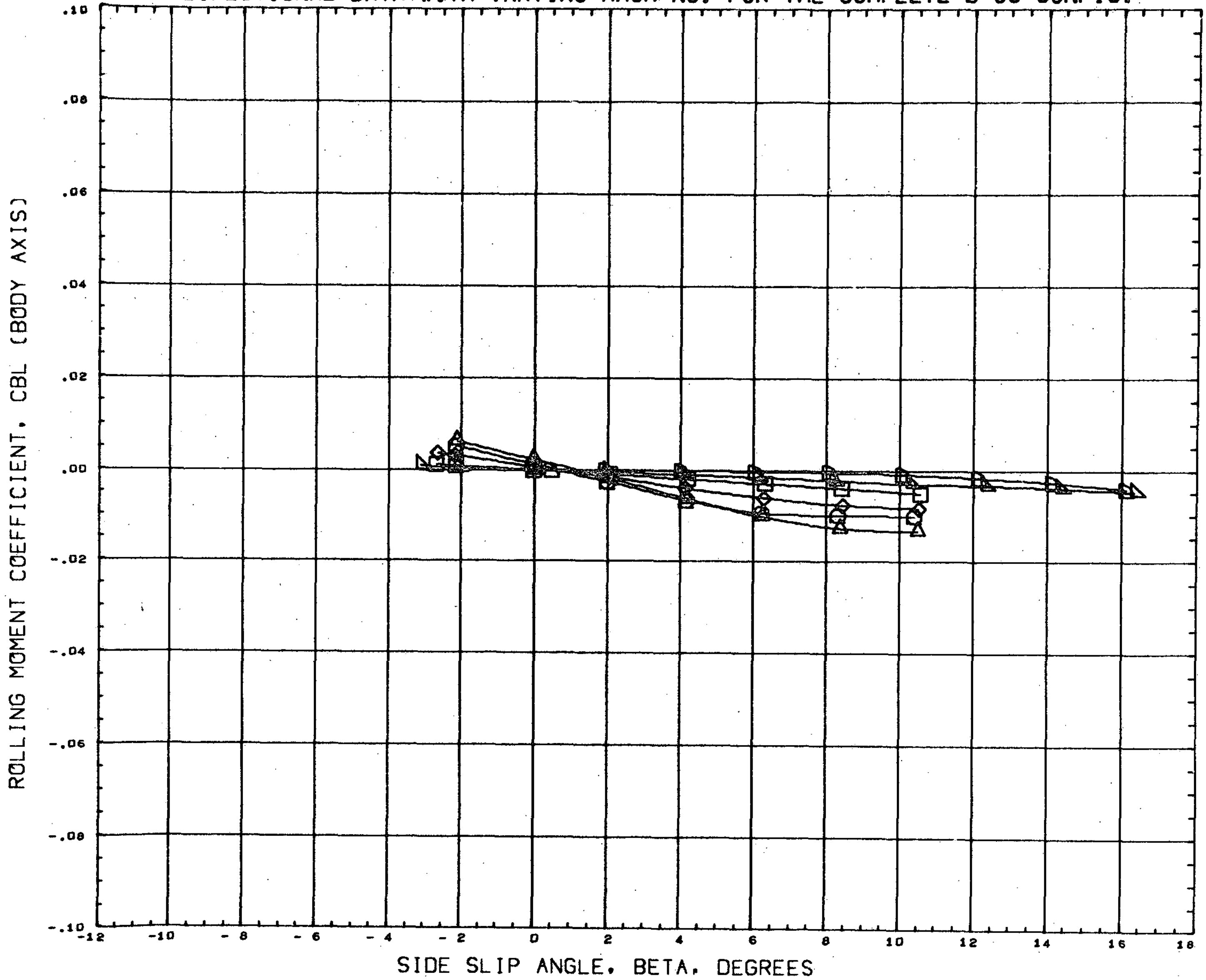
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE COMPLETE B-9U CONFIG.



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.996	ALPHA	0.000	ELEVON	0.000
△	1.197	CANARD	0.000	RUDDER	0.000
◇	1.464				
□	1.950				
⊿	2.990				
D	4.959	DATA HIST. CODE	*A		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
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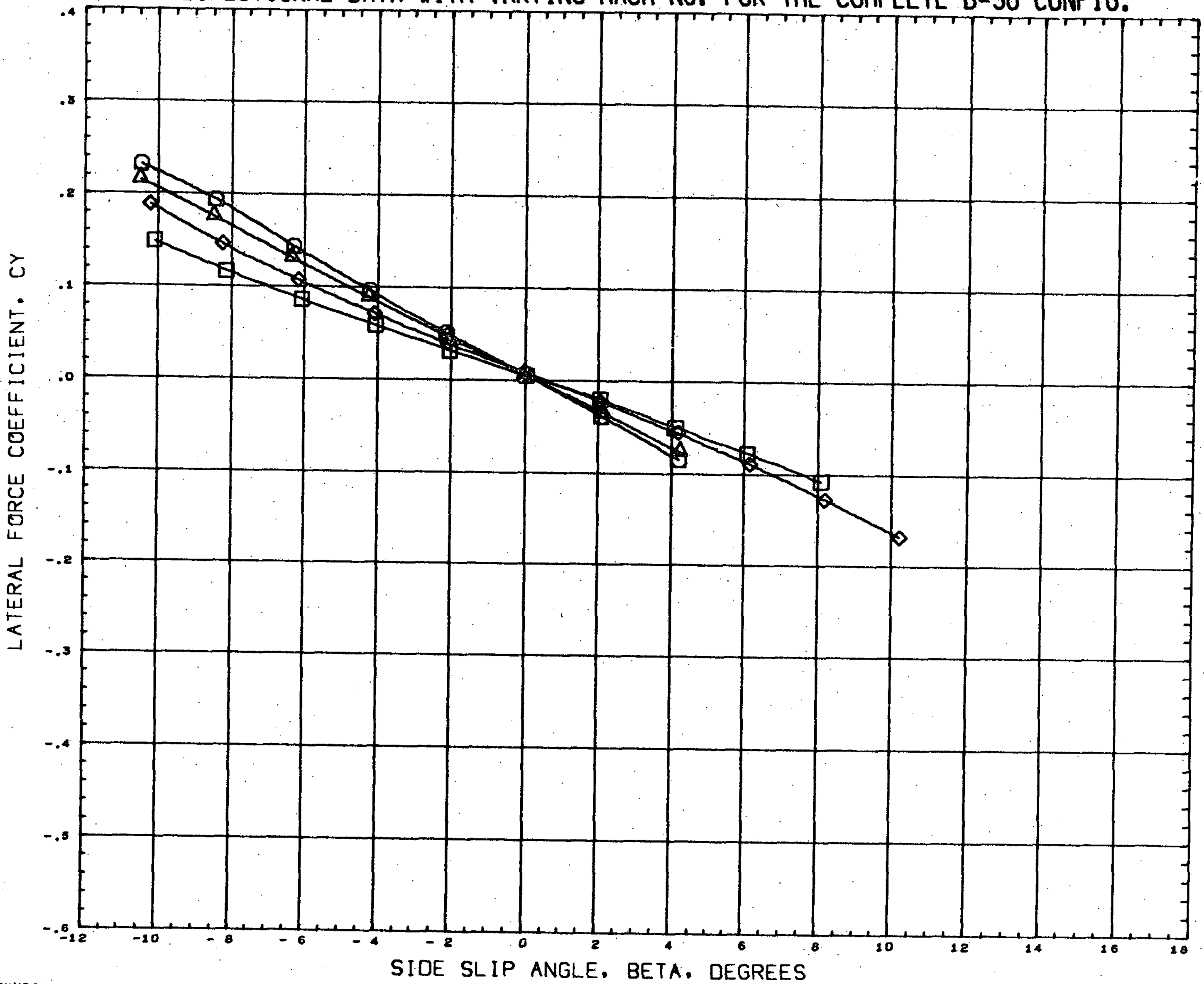
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE COMPLETE B-9U CONFIG.



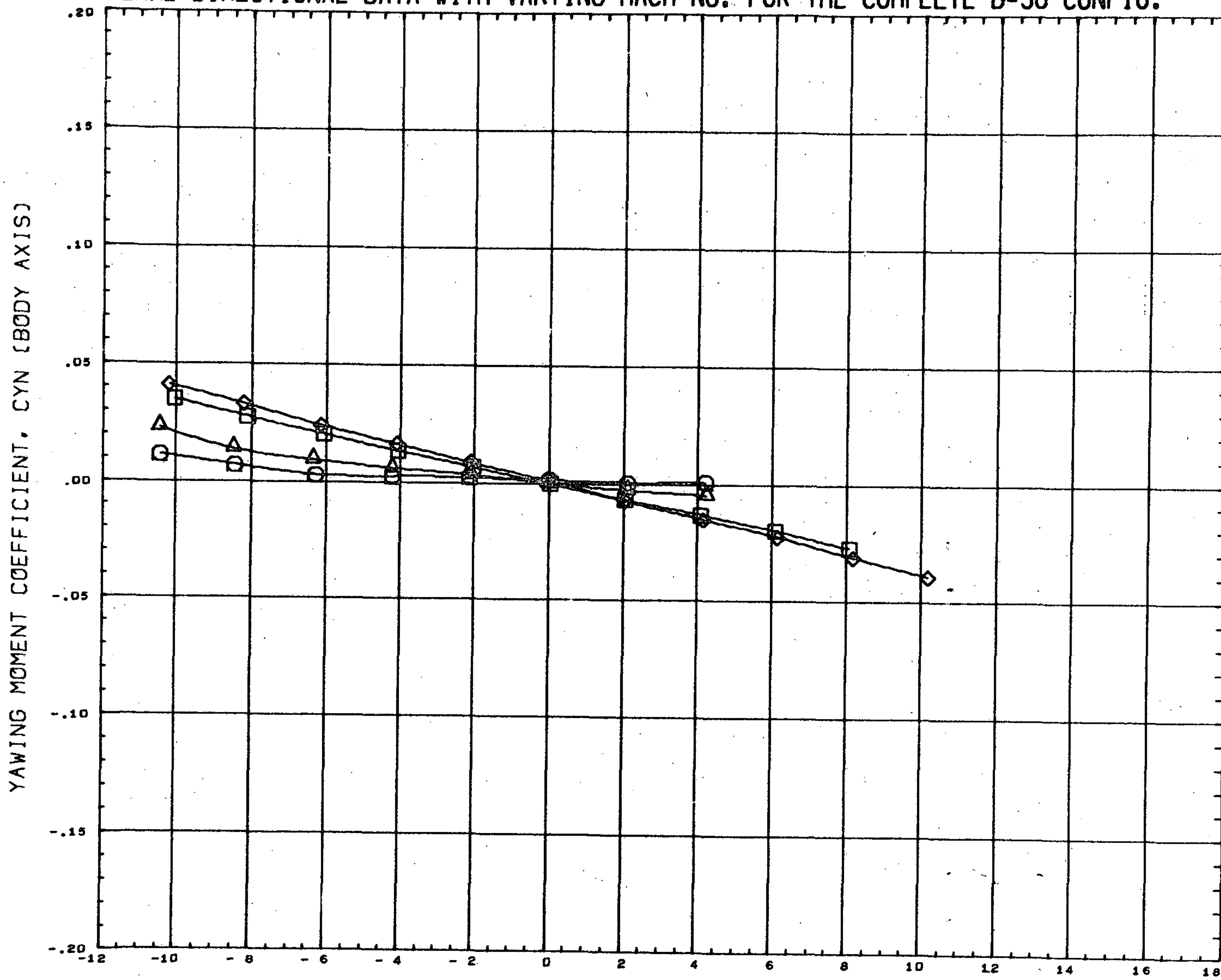
SYMBOL	MACH	PARAMETRIC VALUES			
○	1.198	ALPHA	6.000	ELEVON	0.000
△	1.452	CANARD	0.000	RUDDER	0.000
◇	2.990				
□	4.959				

REFERENCE FILE CONVAIR TN-71-AE11

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE COMPLETE B-9U CONFIG.



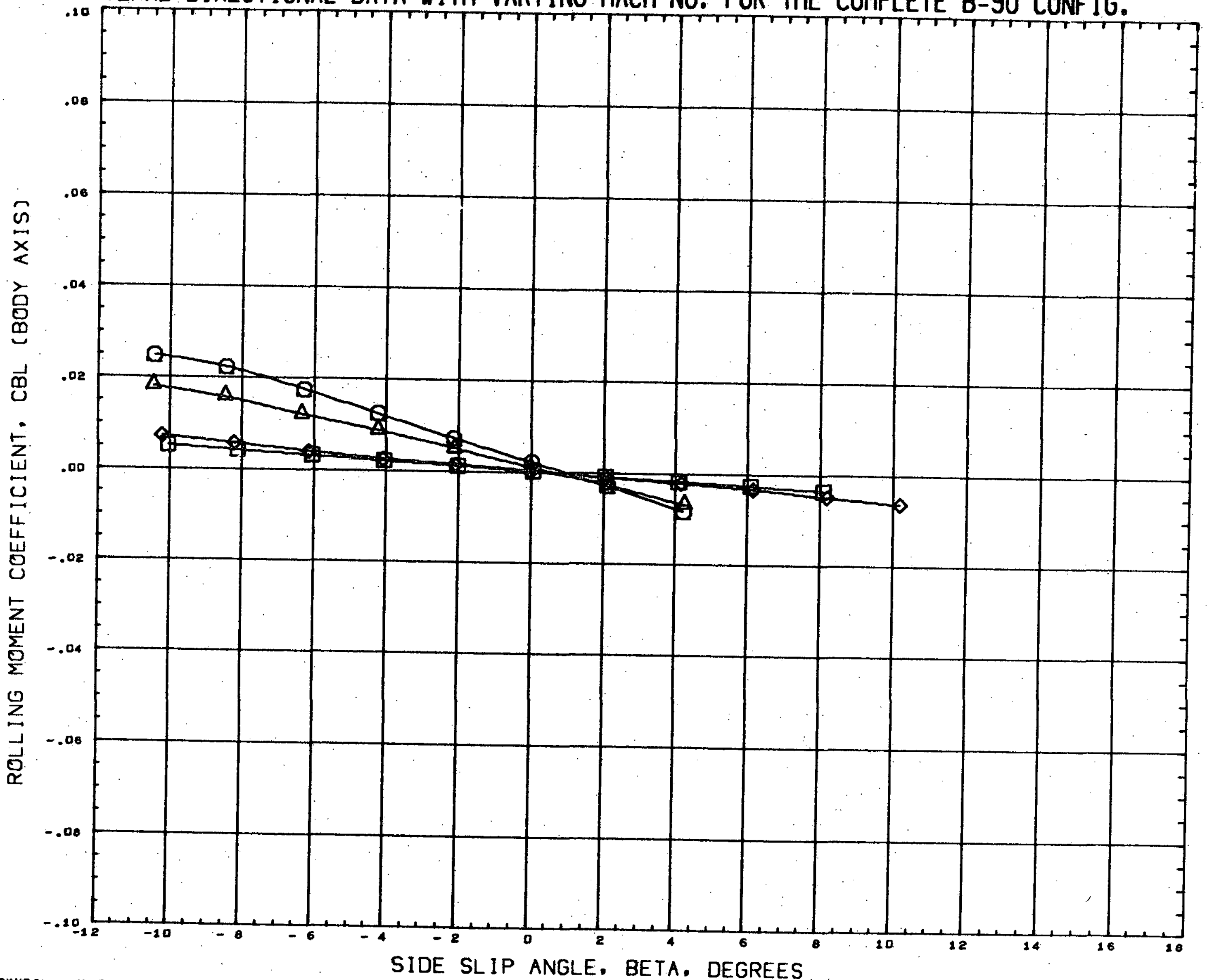
SYMBOL	MACH	PARAMETRIC VALUES			
○	1.198	ALPHA	6.000	ELEVON	0.000
△	1.452	CANARD	0.000	RUDDER	0.000
◇	2.990				
□	4.959				

REFERENCE FILE CONVAIR TN-71-AE11

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE COMPLETE B-9U CONFIG.



SYMBOL	MACH
○	1.198
△	1.452
◇	2.990
□	4.959

PARAMETRIC VALUES

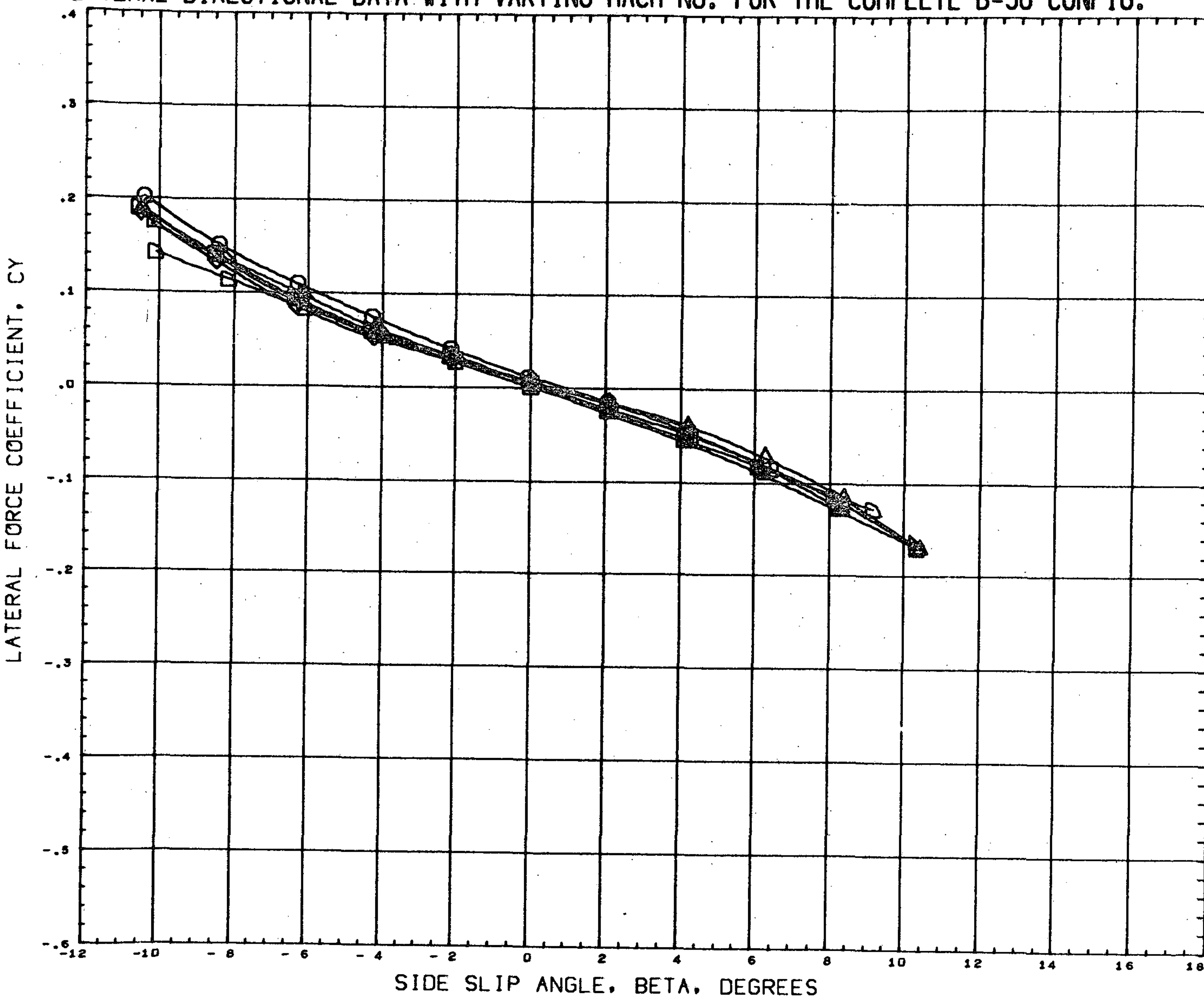
ALPHA	6.000	ELEVON	0.000
CANARD	0.000	RUDDER	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

REFERENCE FILE CONVAIR TN-71-AE11

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE COMPLETE B-9U CONFIG.

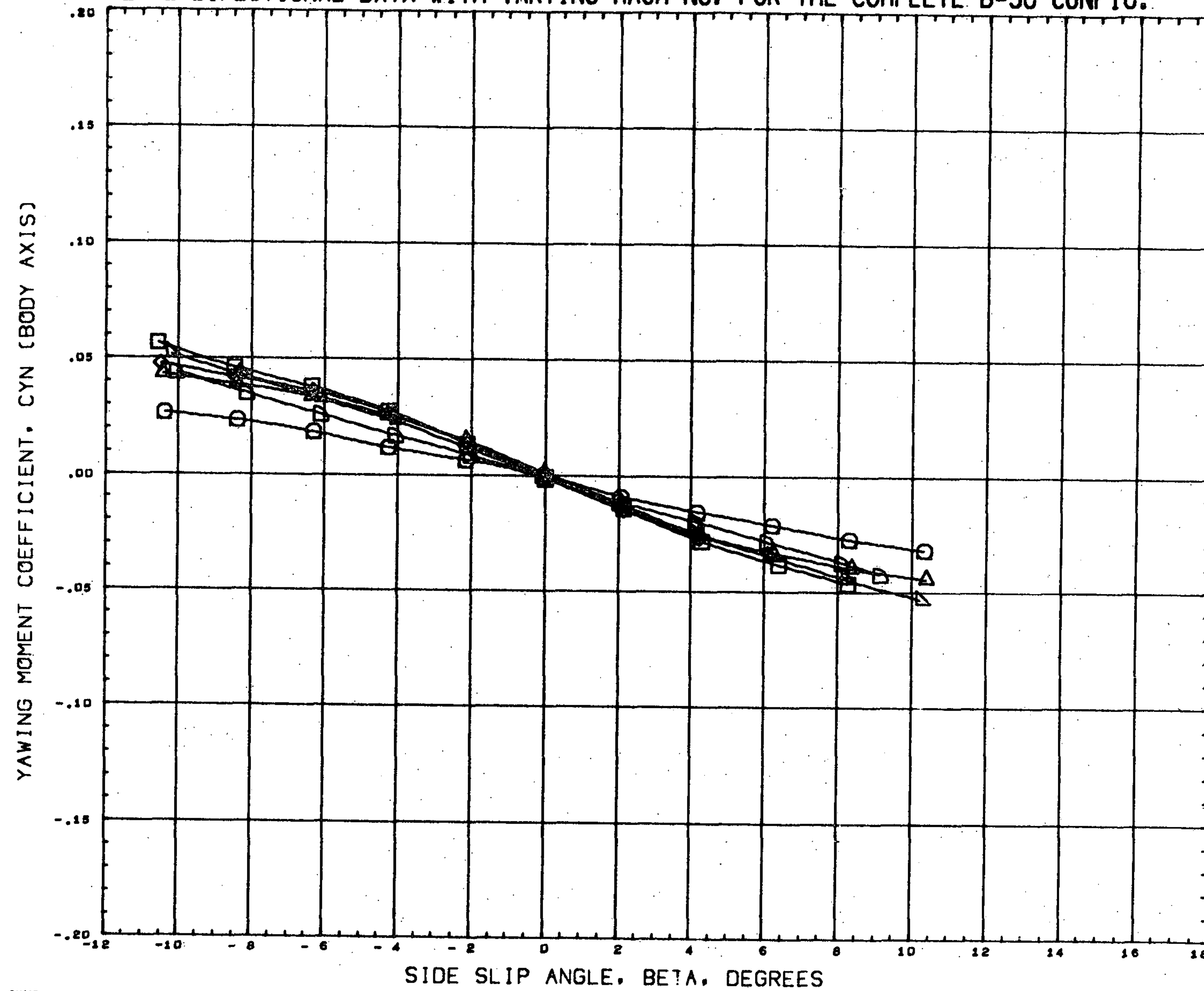


SYMBOL	MACH	PARAMETRIC VALUES			
○	1.001	ALPHA	15.000	ELEVON	0.000
△	1.189	CANARD	0.000	RUDDER	0.000
◇	1.464				
□	1.963				
◺	2.990				
D	4.959	REFERENCE FILE	CONVAIR TN-71-AE11		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE COMPLETE B-9U CONFIG.

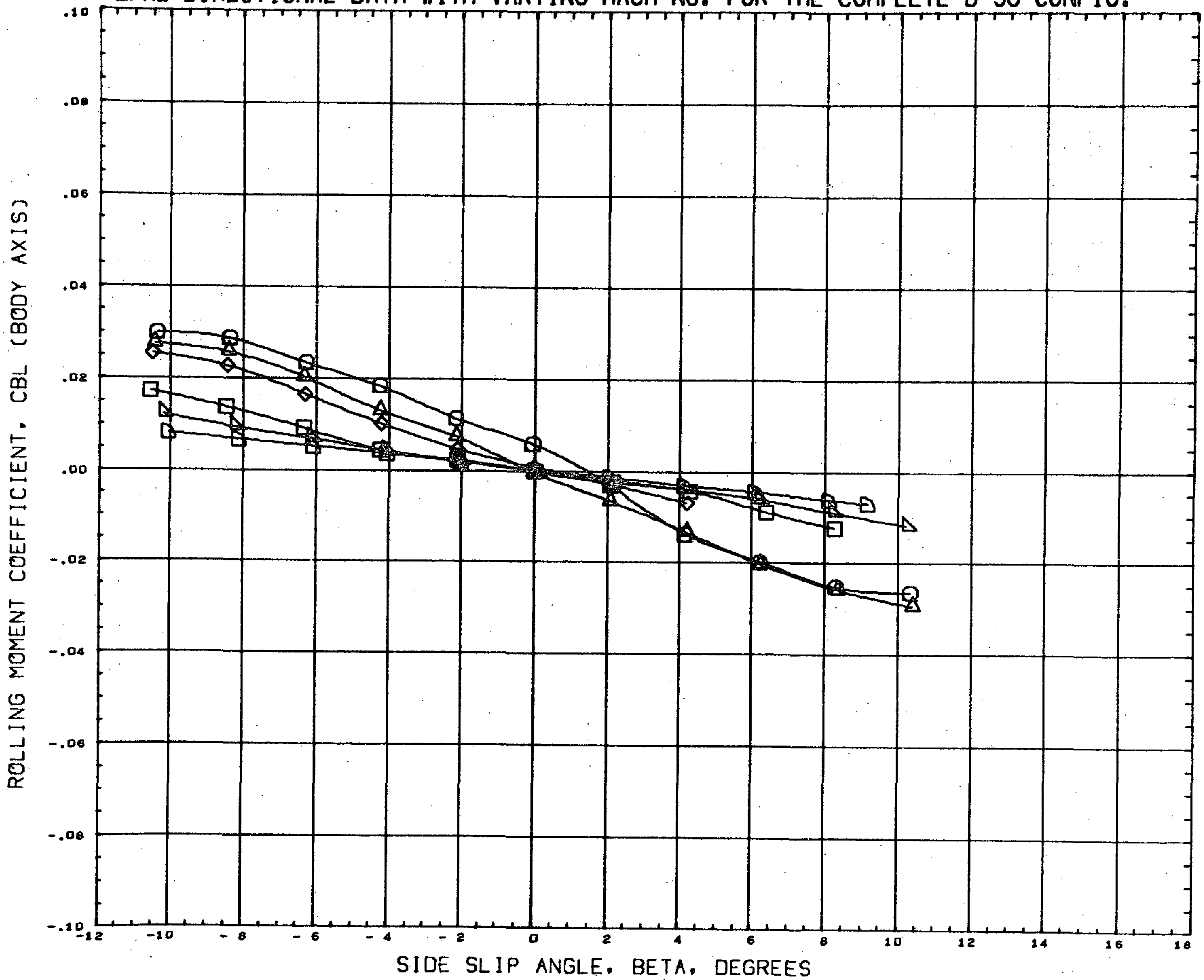


SYMBOL	MACH	PARAMETRIC VALUES			
○	1.001	ALPHA	15.000	ELEVON	0.000
△	1.189	CANARD	0.000	RUDDER	0.000
◇	1.464				
□	1.963				
◺	2.990				
D	4.959	REFERENCE FILE	CONVAIR TN-71-AE11		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE COMPLETE B-9U CONFIG.

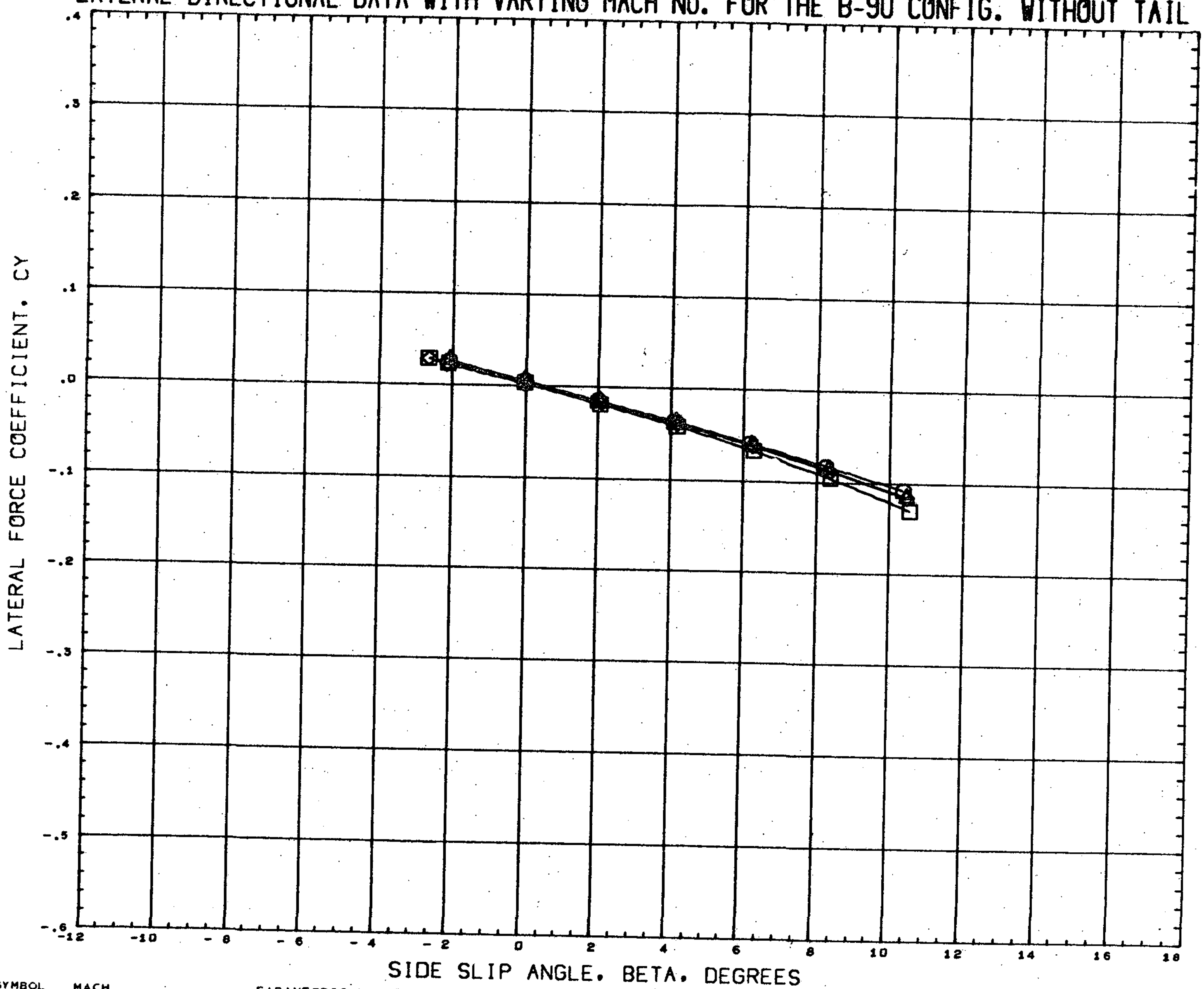


SYMBOL	MACH		PARAMETRIC VALUES		
○	1.001	ALPHA	15.000	ELEVON	0.000
△	1.189	CANARD	0.000	RUDDER	0.000
◇	1.464				
□	1.963				
◺	2.990				
◻	4.959	REFERENCE FILE	CONVAIR TN-71-AE11		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE B-9U CONFIG. WITHOUT TAIL



SYMBOL	MACH
○	1.004
△	1.196
◇	1.466
□	1.950

PARAMETRIC VALUES

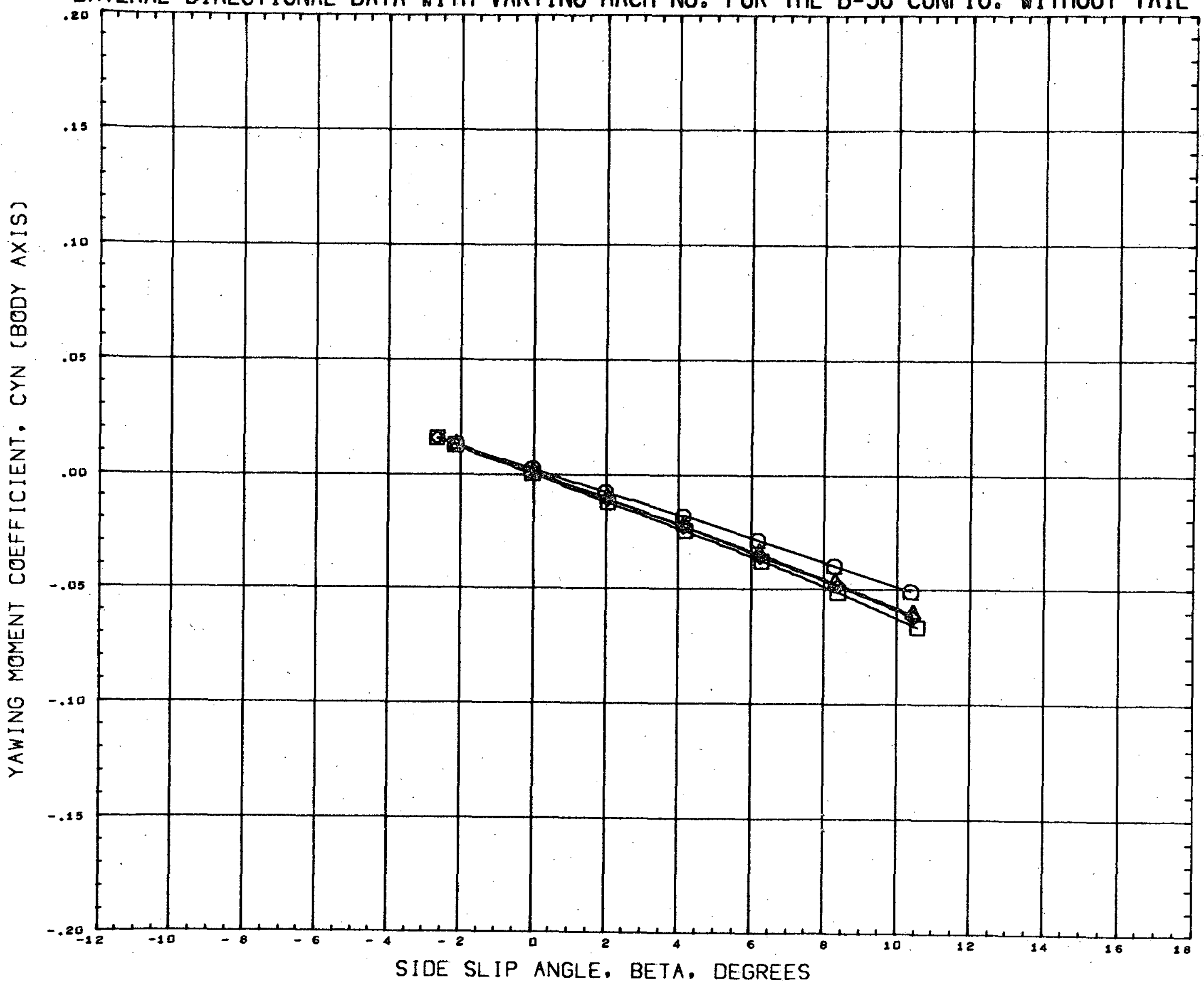
ALPHA	0.000	ELEVON	0.000
CANARD	0.000	RUDDER	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

REFERENCE FILE CONVAIR TN-71-AE11

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE B-9U CONFIG. WITHOUT TAIL



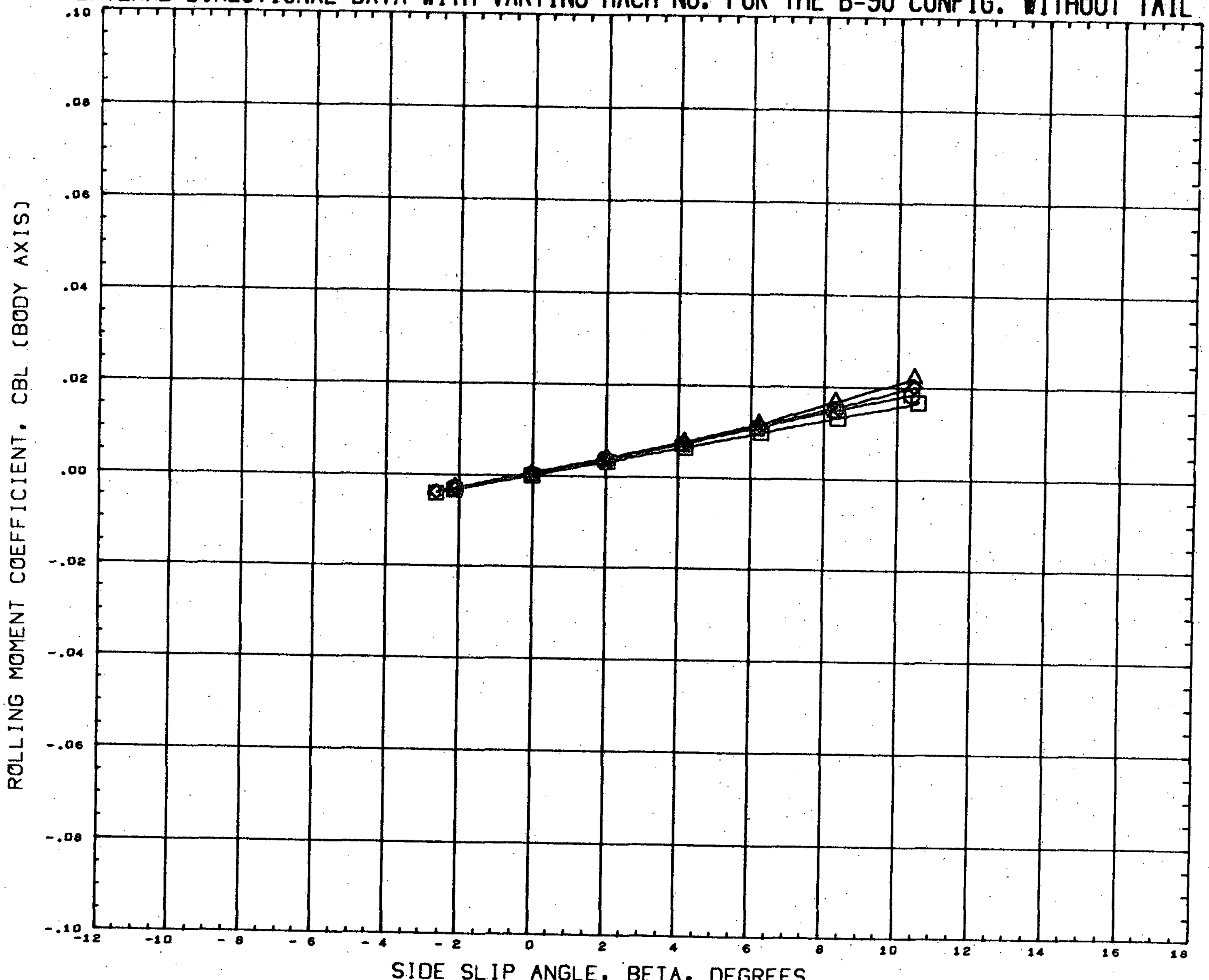
SYMBOL	MACH	PARAMETRIC VALUES			
○	1.004	ALPHA	0.000	ELEVON	0.000
△	1.196	CANARD	0.000	RUDDER	0.000
◇	1.466				
□	1.950				

REFERENCE FILE CONVAIR TN-71-AE11

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE B-9U CONFIG. WITHOUT TAIL



SYMBOL	MACH
○	1.004
△	1.196
◇	1.466
□	1.950

PARAMETRIC VALUES

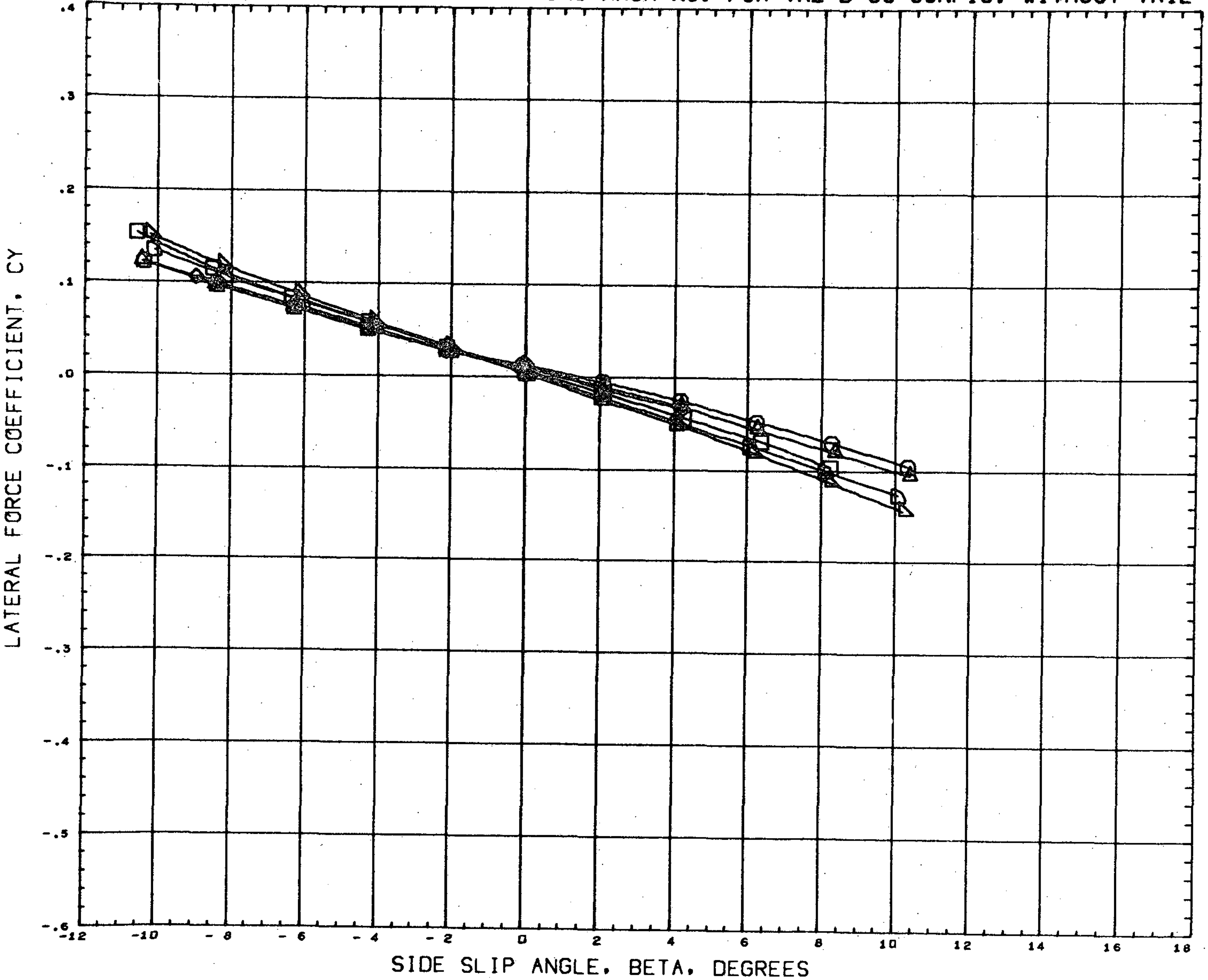
ALPHA	0.000	ELEVON	0.000
CANARD	0.000	RUDDER	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

REFERENCE FILE CONVAIR TN-71-AE11

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE B-9U CONFIG. WITHOUT TAIL

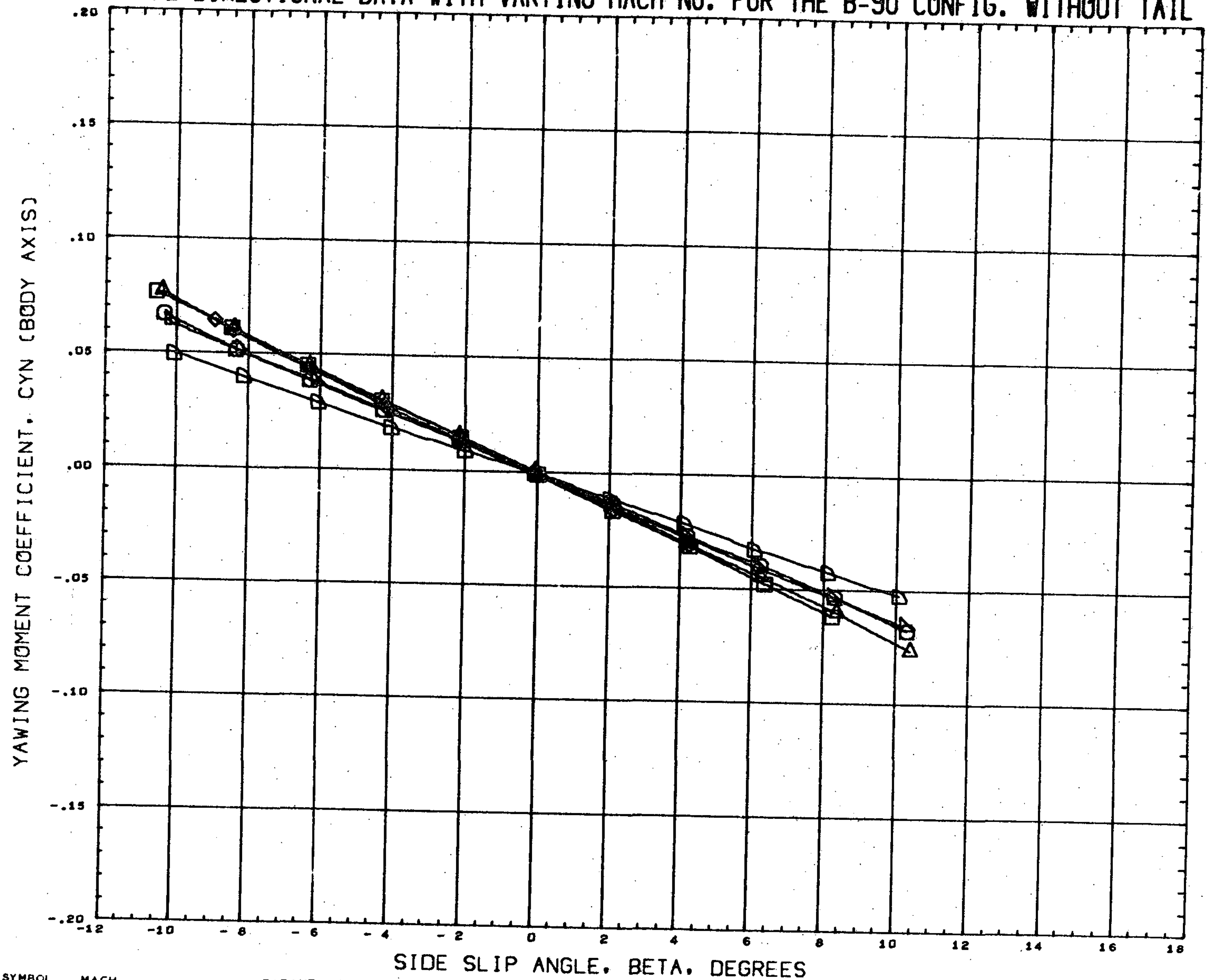


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.992	ALPHA	15.000	ELEVON	0.000
△	1.192	CANARD	0.000	RUDDER	0.000
◇	1.469				
□	1.964				
◺	2.990				
D	4.959	REFERENCE FILE	CONVAIR TN-71-AE11		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE B-9U CONFIG. WITHOUT TAIL



SYMBOL	MACH
○	0.992
△	1.192
◇	1.469
□	1.964
◺	2.990
D	4.959

PARAMETRIC VALUES

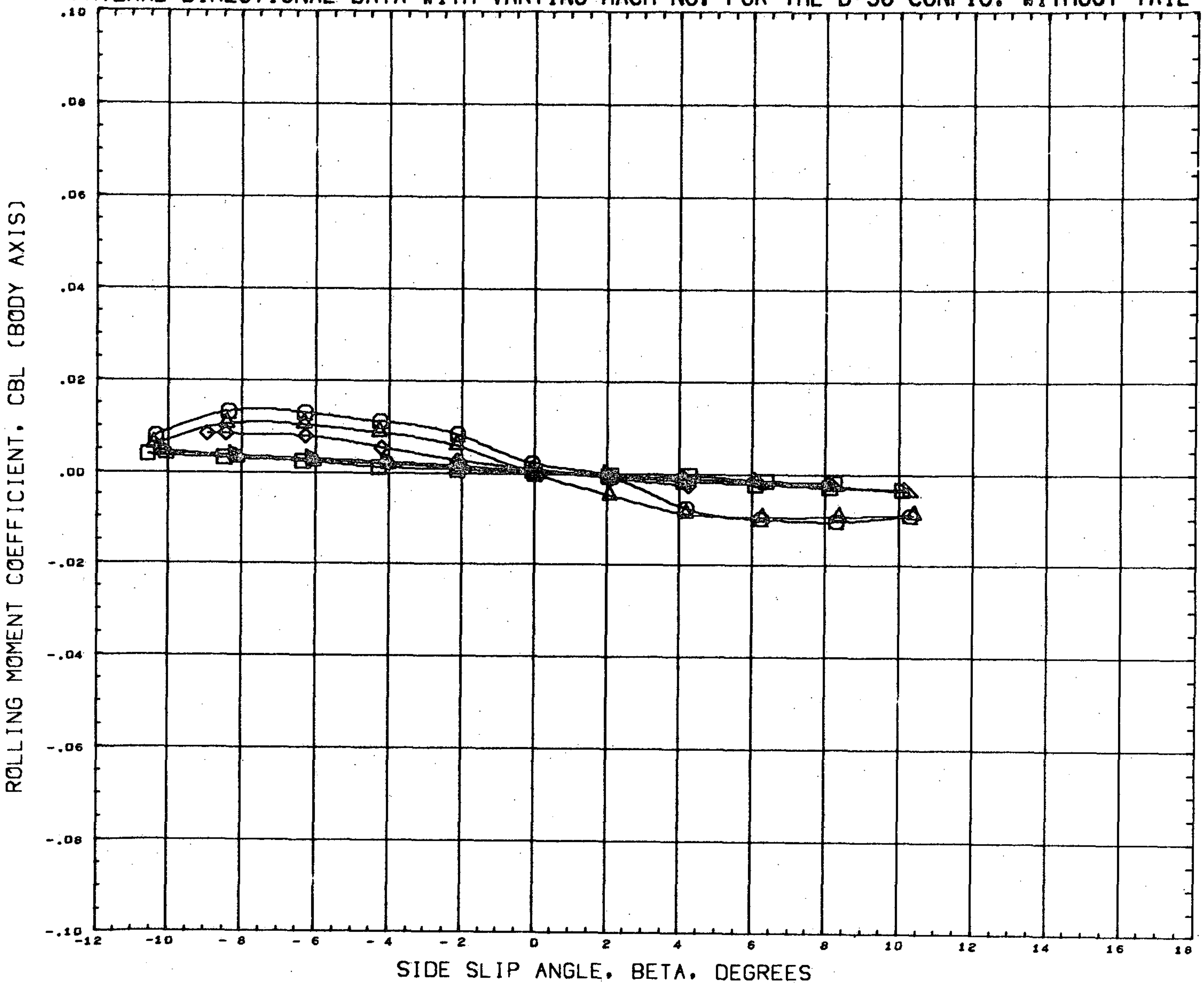
ALPHA	15.000	ELEVON	0.000
CANARD	0.000	RUDDER	0.000

REFERENCE FILE CONVAIR TN-71-AE11

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE B-9U CONFIG. WITHOUT TAIL

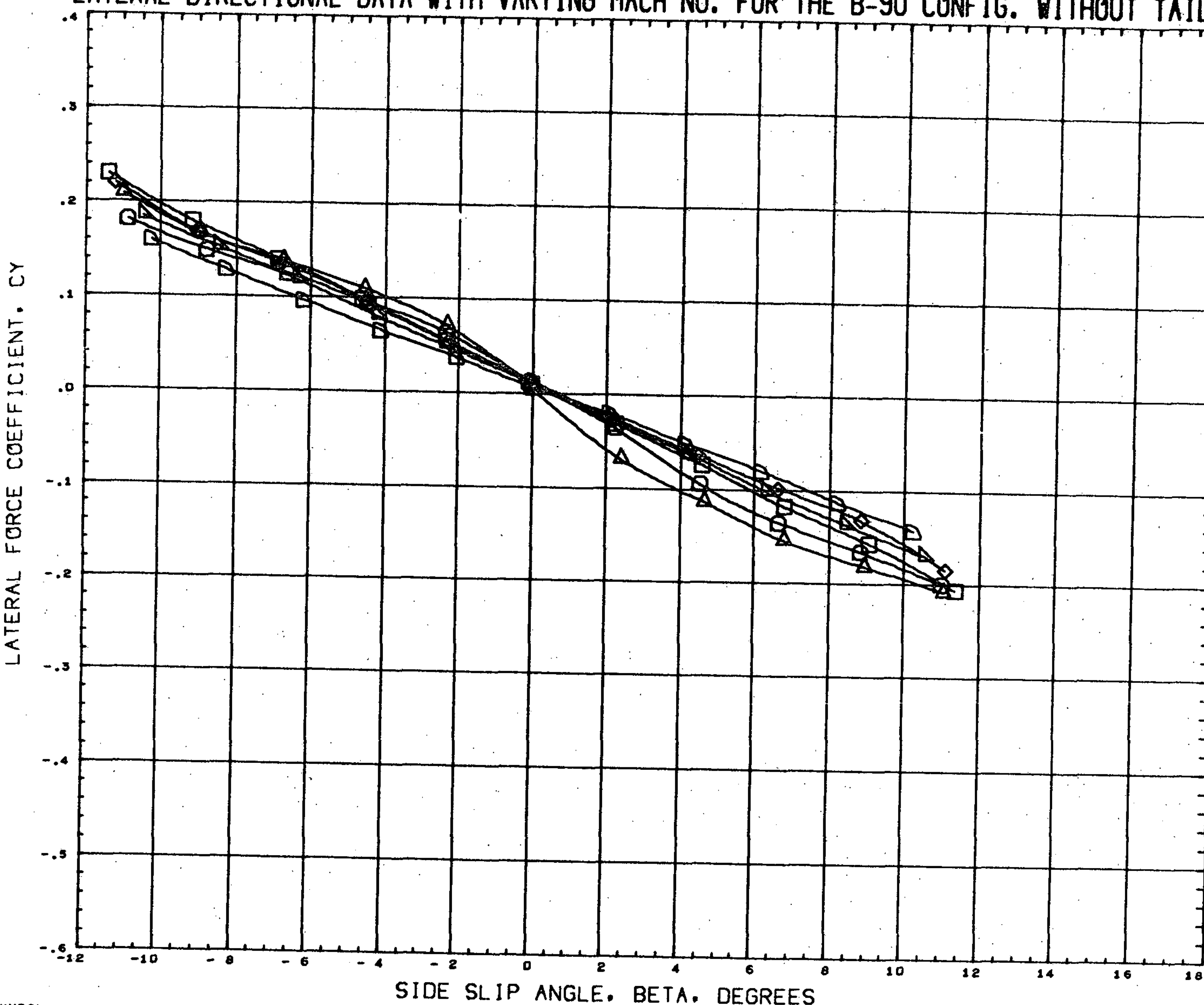


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.992	ALPHA	15.000	ELEVON	0.000
△	1.192	CANARD	0.000	RUDDER	0.000
◇	1.469				
□	1.964				
◺	2.990				
◻	4.959	REFERENCE FILE	CONVAIR TN-7.-AE11		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE B-9U CONFIG. WITHOUT TAIL



SYMBOL	MACH
○	0.893
△	1.001
◇	1.197
□	1.967
◺	2.990
◗	4.959

PARAMETRIC VALUES

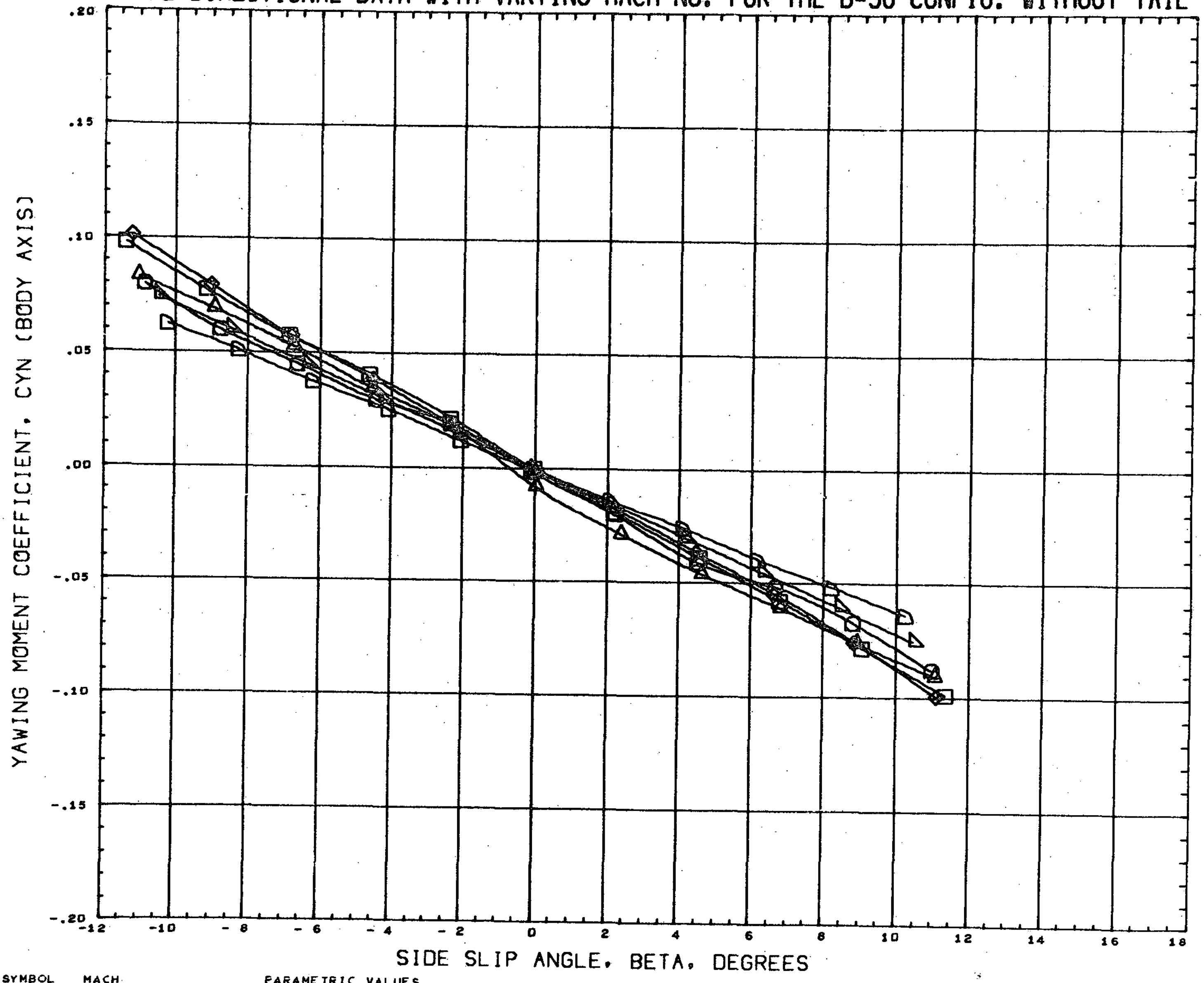
ALPHA	25.000	ELEVON	0.000
CANARD	0.000	RUDDER	0.000

REFERENCE FILE CONVAIR TN-71-AE11

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE B-9U CONFIG. WITHOUT TAIL

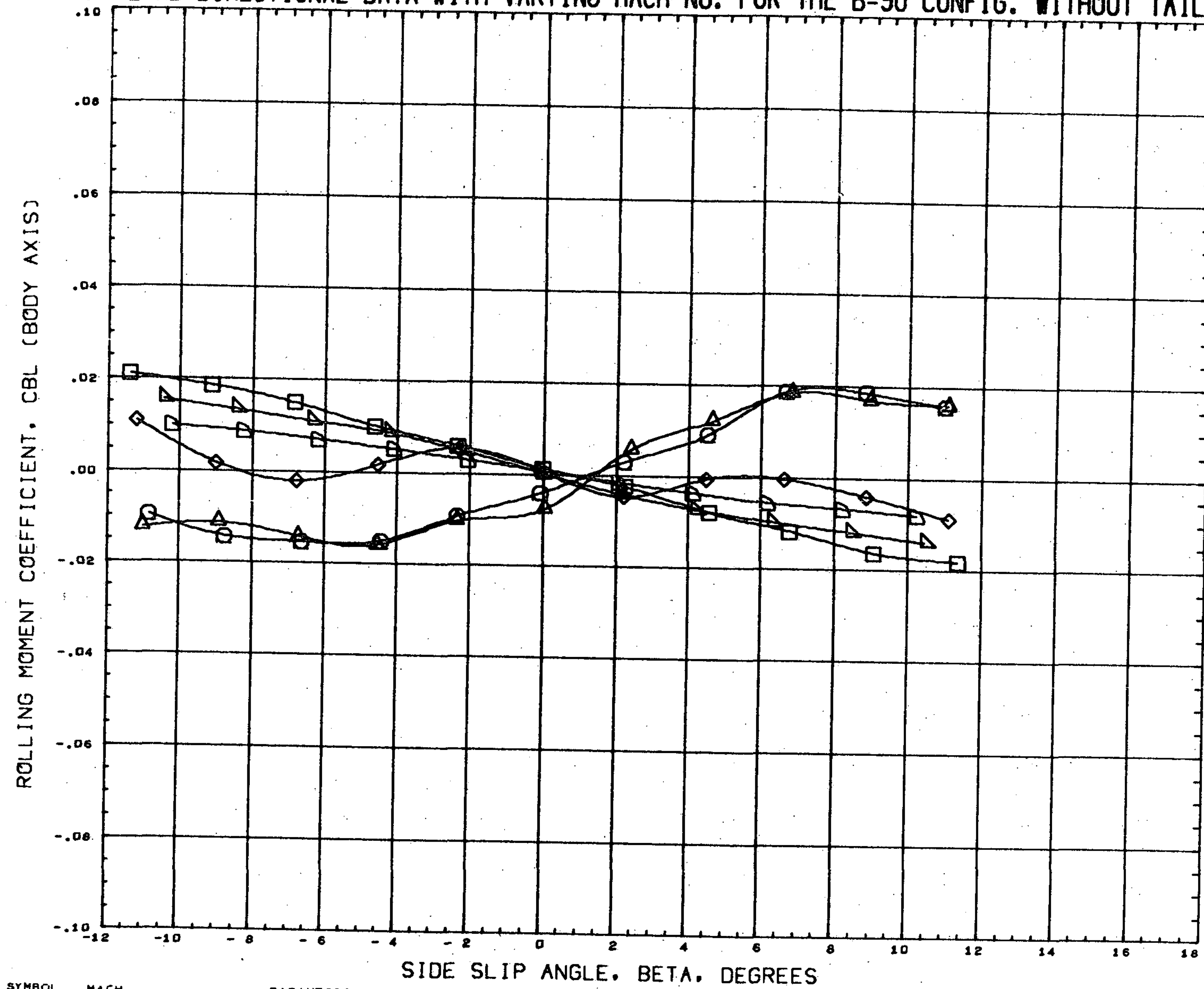


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.893	ALPHA	25.000	ELEVON	0.000
△	1.001	CANARD	0.000	RUDDER	0.000
◇	1.197				
□	1.967				
◺	2.990				
D	4.959	REFERENCE FILE	CONVAIR IN-71-AE11		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE B-9U CONFIG. WITHOUT TAIL



SYMBOL	MACH
○	0.893
△	1.001
◇	1.197
□	1.967
◺	2.990
◗	4.959

PARAMETRIC VALUES

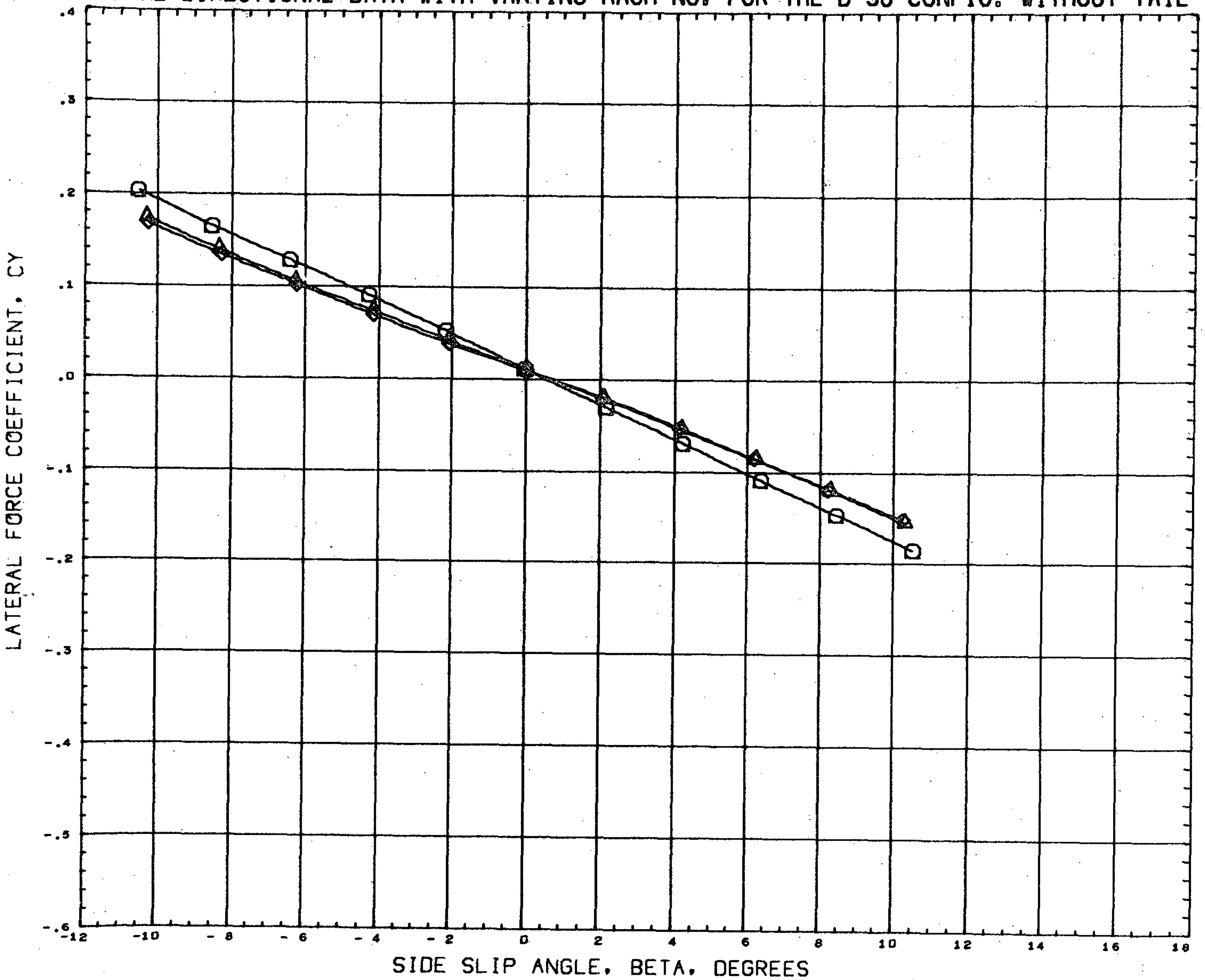
ALPHA	25.000	ELEVON	0.000
CANARD	0.000	RUDDER	0.000

REFERENCE FILE CONVAIR TN-71-AE11

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE B-9U CONFIG. WITHOUT TAIL



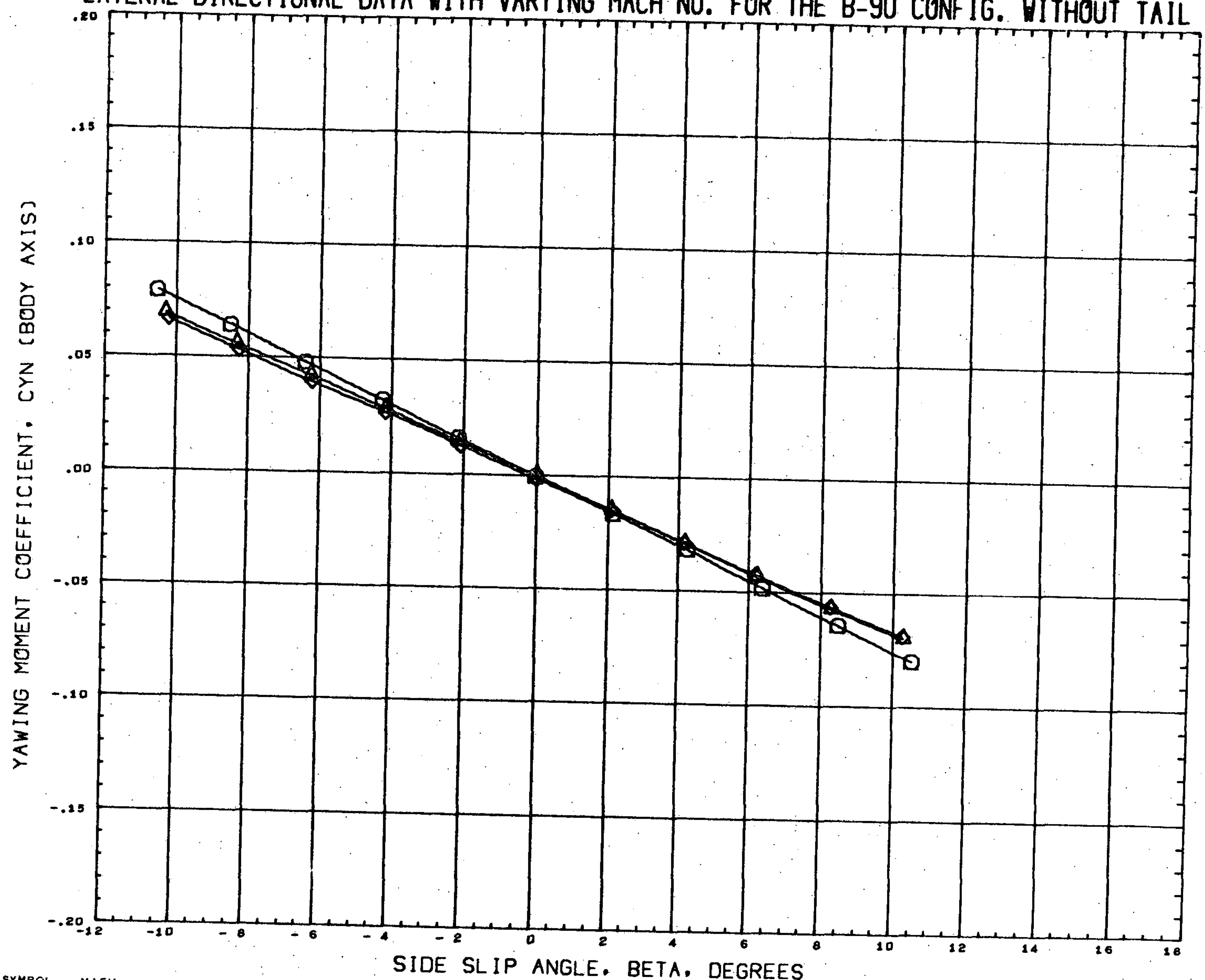
SYMBOL	MACH	PARAMETRIC VALUES			
○	2.990	ALPHA	30.000	ELEVON	0.000
△	4.450	CANARD	0.000	RUDDER	0.000
◇	4.959				

REFERENCE FILE   CONVAIR TN-71-AE11

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE B-9U CONFIG. WITHOUT TAIL



SYMBOL	MACH
○	2.990
△	4.450
◇	4.959

PARAMETRIC VALUES

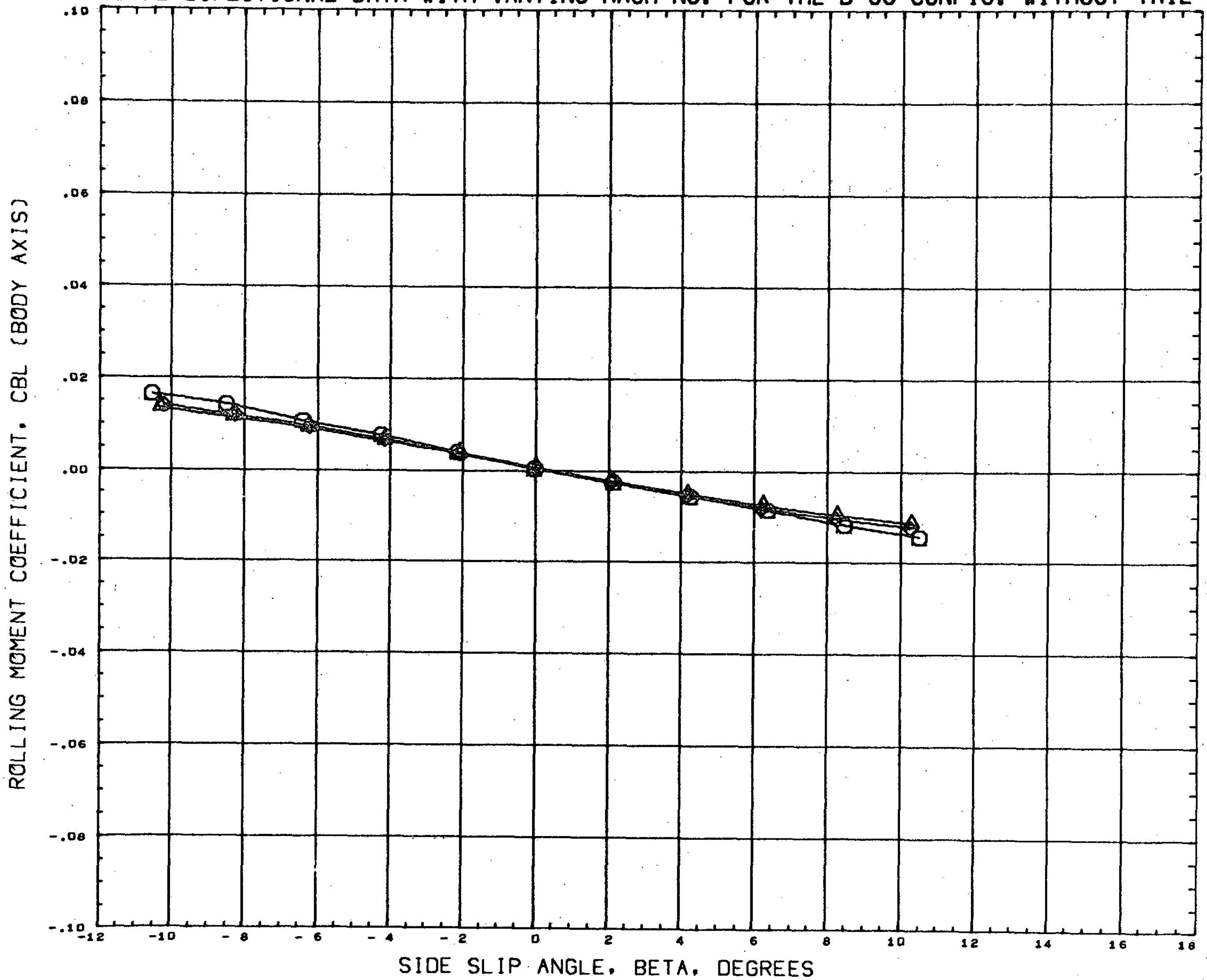
ALPHA	30.000	ELEVON	0.000
CANARD	0.000	RUDDER	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

REFERENCE FILE CONVAIR TN-71-AE11

LATERAL-DIRECTIONAL DATA WITH VARYING MACH NO. FOR THE B-9U CONFIG. WITHOUT TAIL



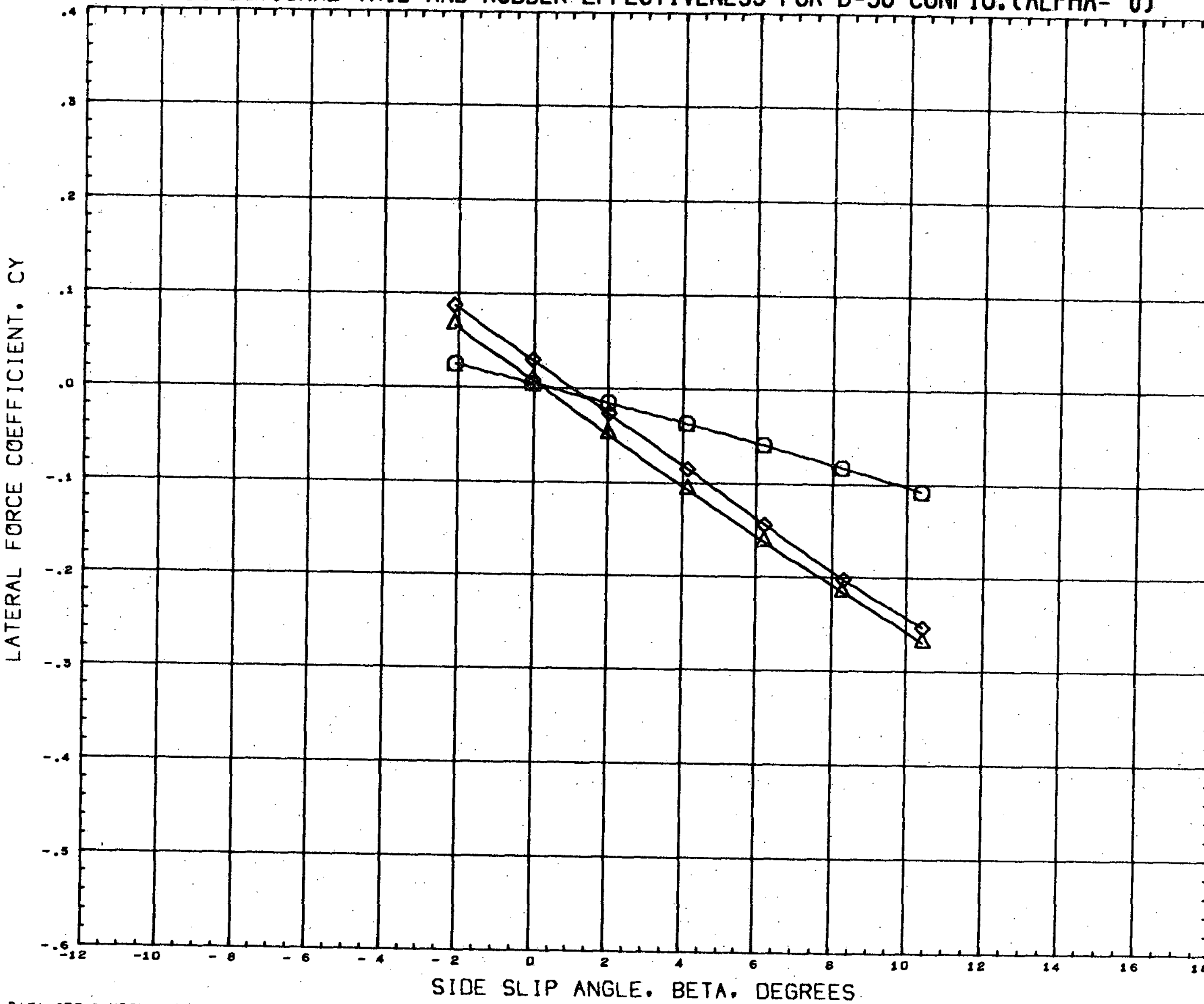
SYMBOL	MACH	PARAMETRIC VALUES			
○	2.990	ALPHA	30.000	ELEVON	0.000
△	4.450	CANARD	0.000	RUDDER	0.000
◇	4.959				

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

REFERENCE FILE CONVAIR TN-71-AE11

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)



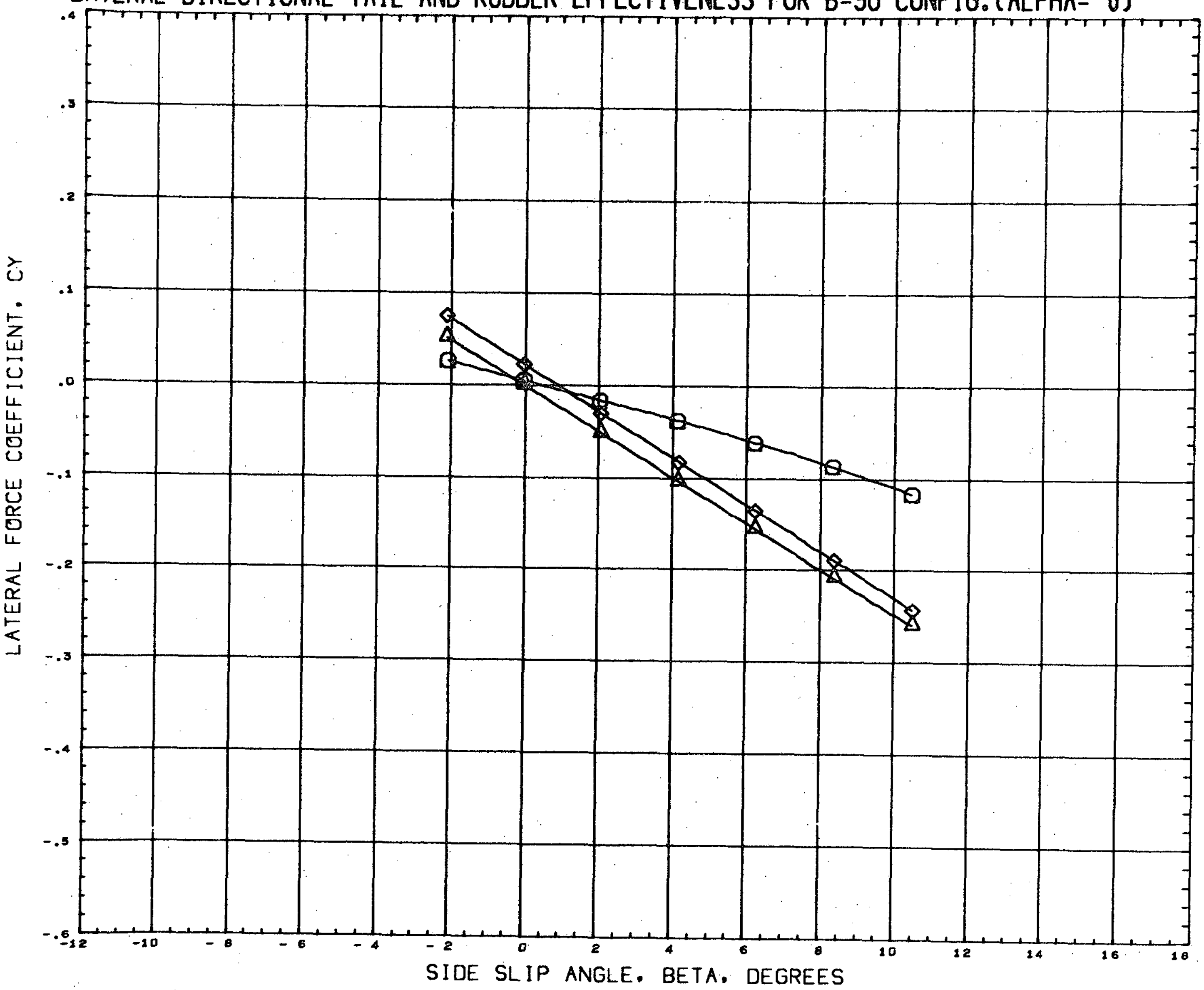
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=0 C=0R=0F	0.000	0.000	0.000	0.000
(B35TDA)	△	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=0 C=0 R=10	0.000	0.000	0.000	10.000

MACH 1.004

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)

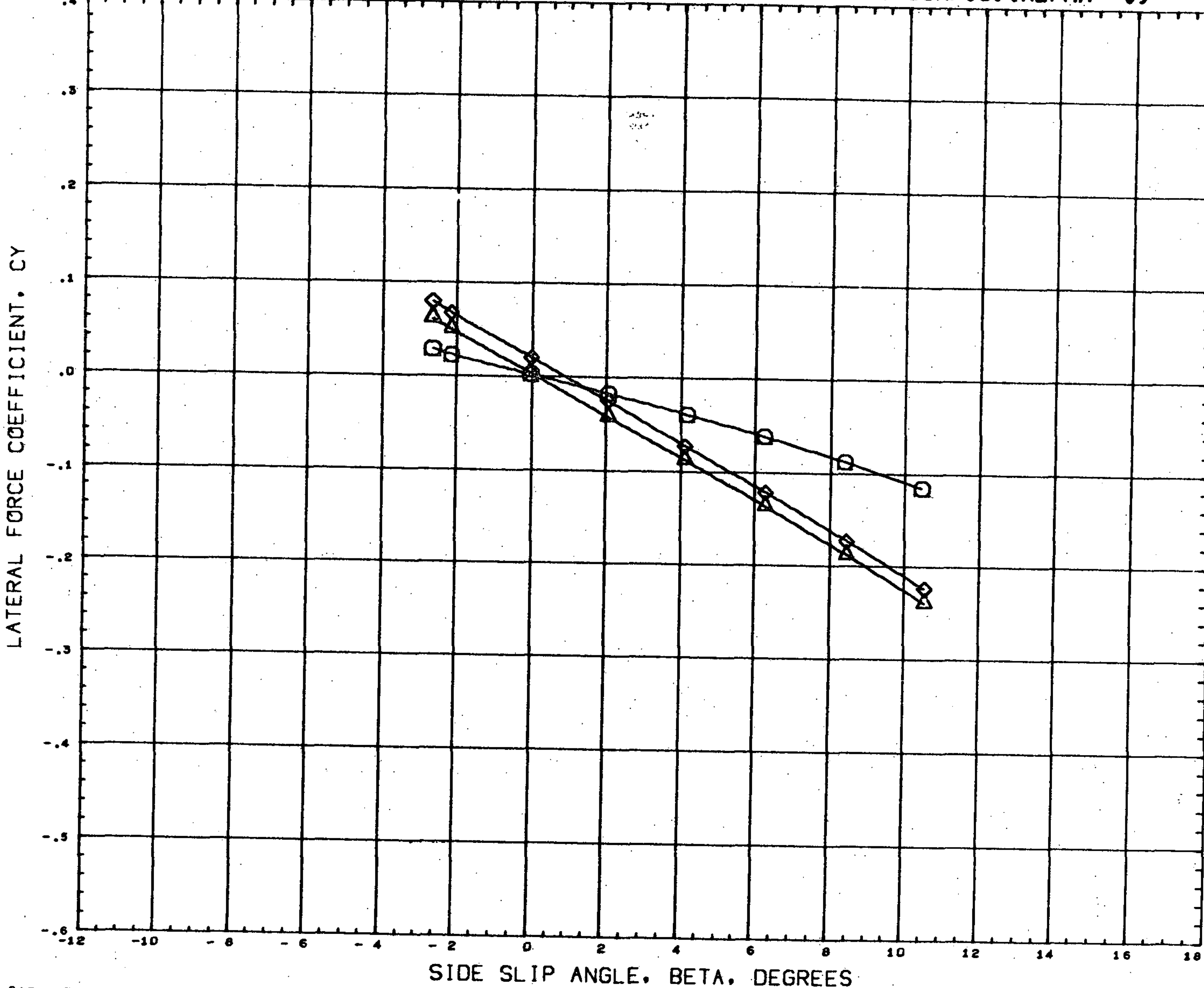


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=0	C=OR=OF	0.000	0.000	0.000	0.000
(B35TDA)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0	C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0	C=0 R=10	0.000	0.000	0.000	10.000

MACH 1.196

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)

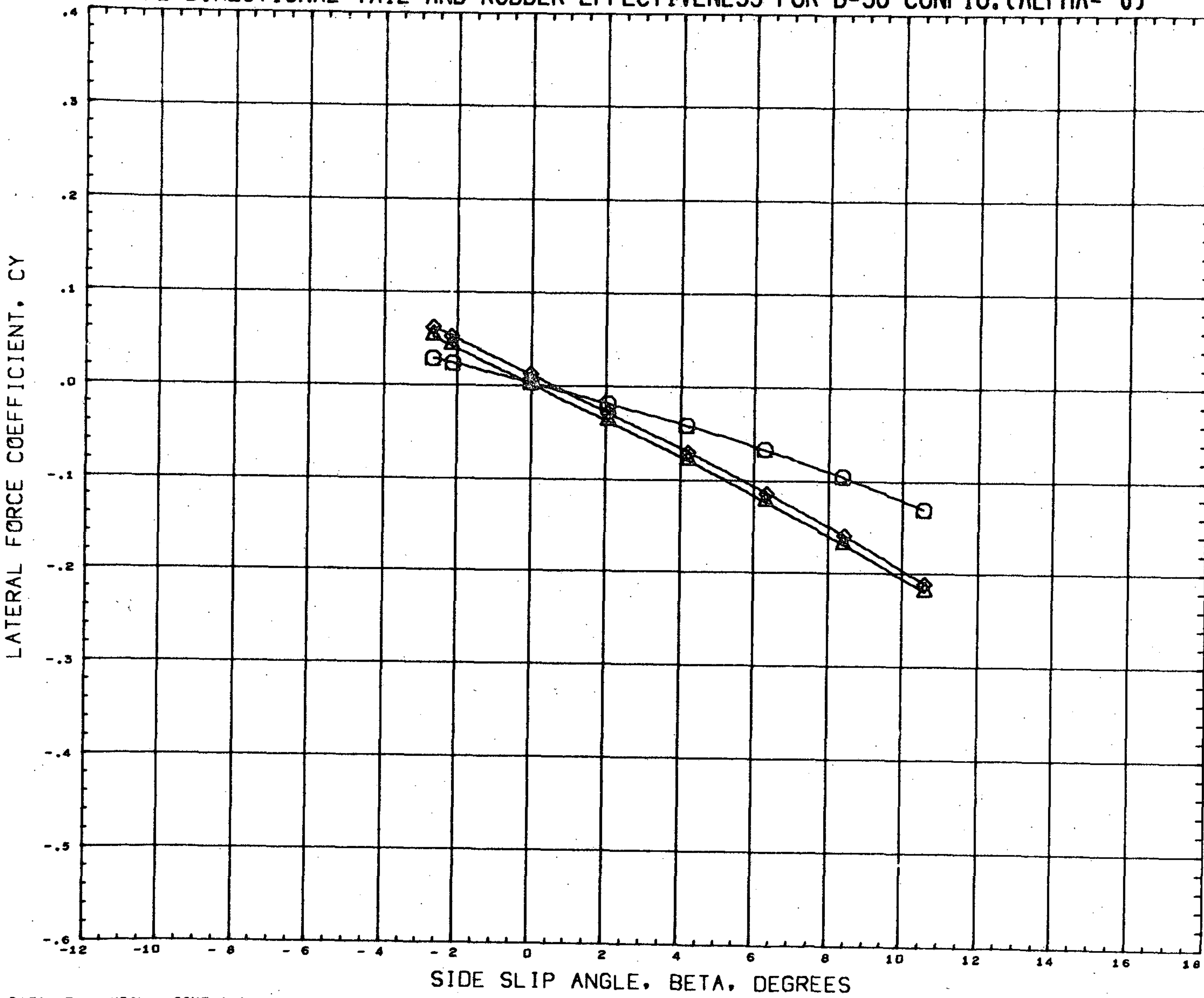


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=0 C=DR=0F	0.000	0.000	0.000	0.000
(B35TDA)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=10	0.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.466

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)



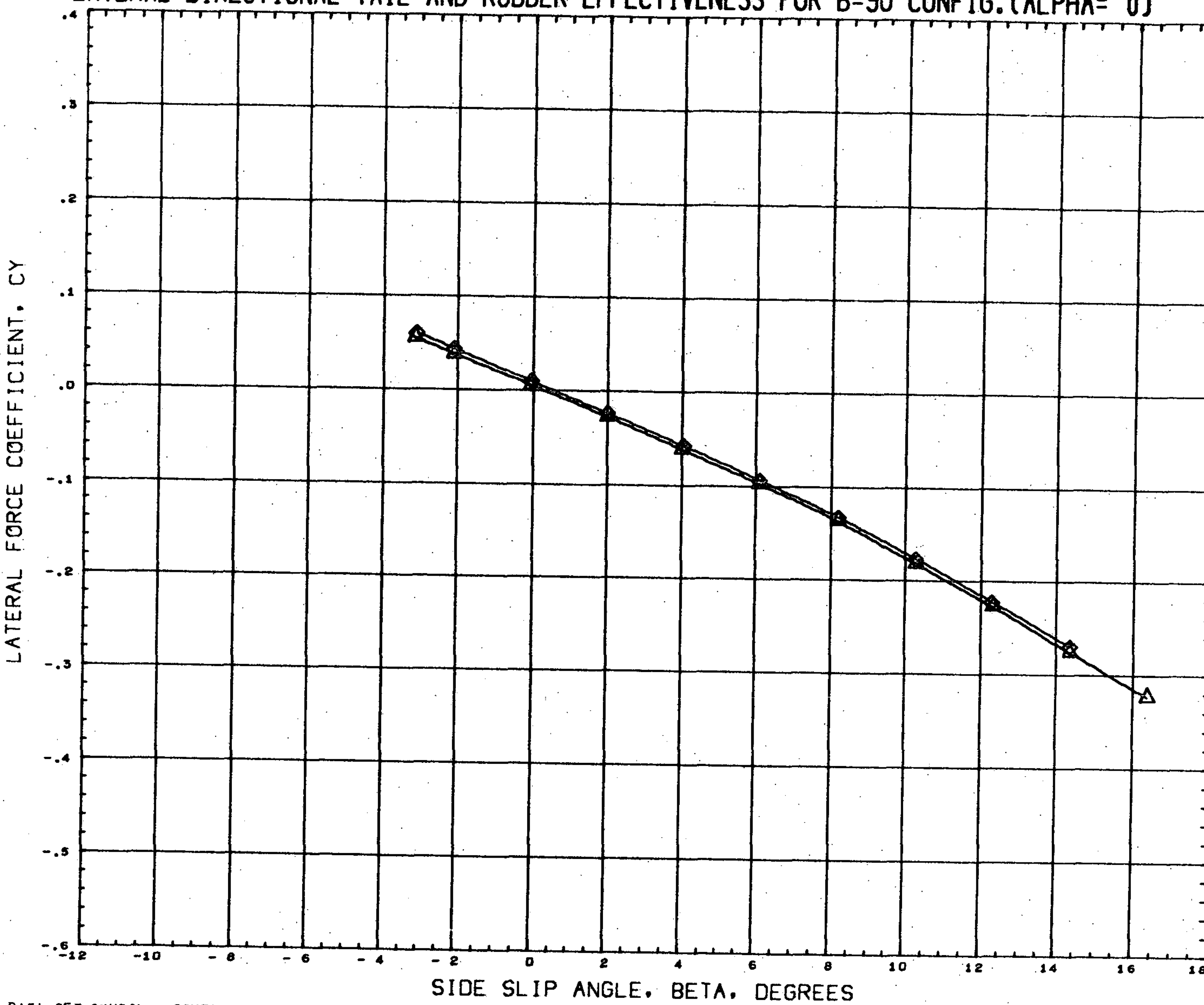
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=0 C=DR=DF	0.000	0.000	0.000	0.000
(B35TDA)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=10	0.000	0.000	0.000	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

MACH 1.950

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)

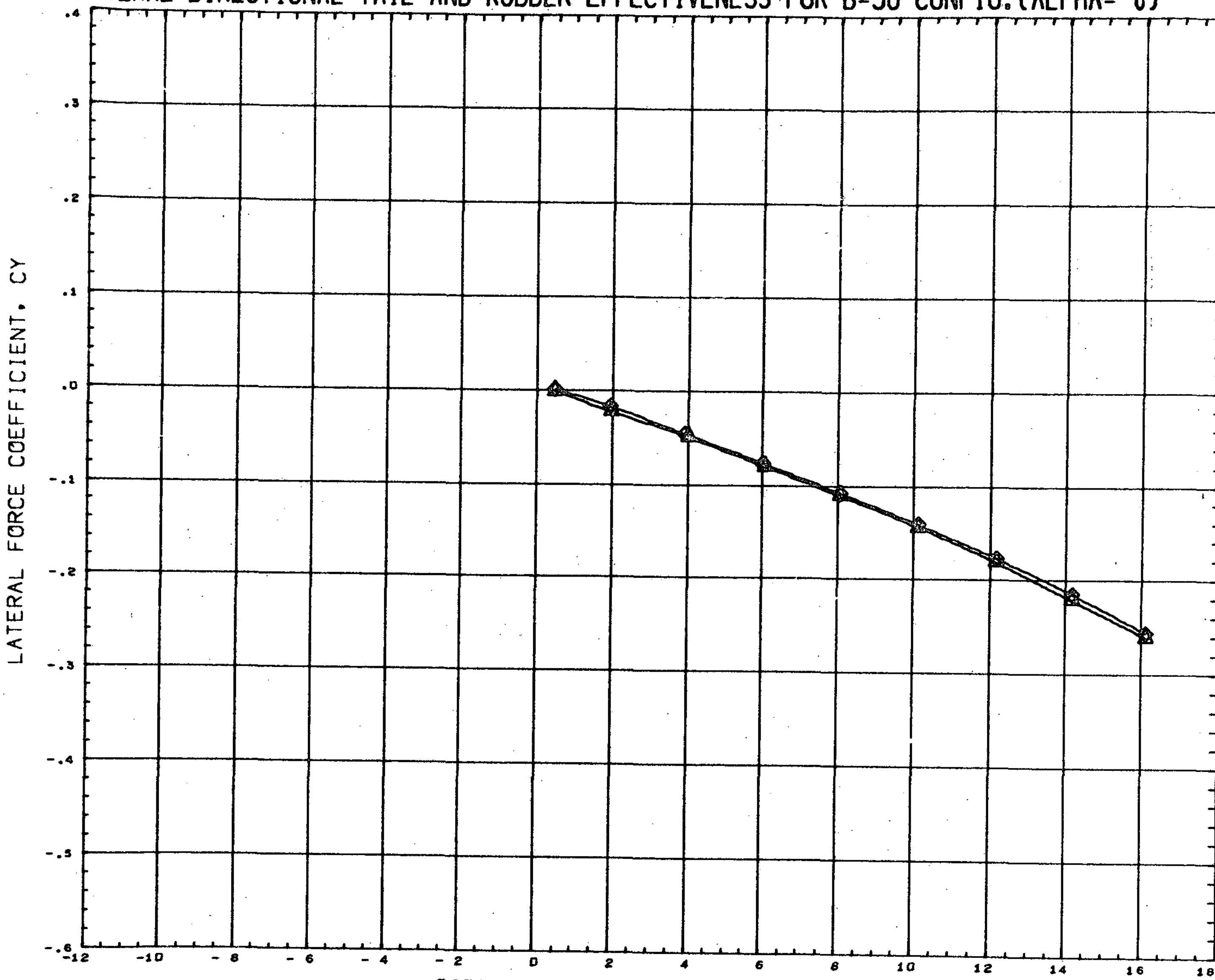


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS				
(B35TDA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=10	0.000	0.000	0.000	10.000

MACH 2.990

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)

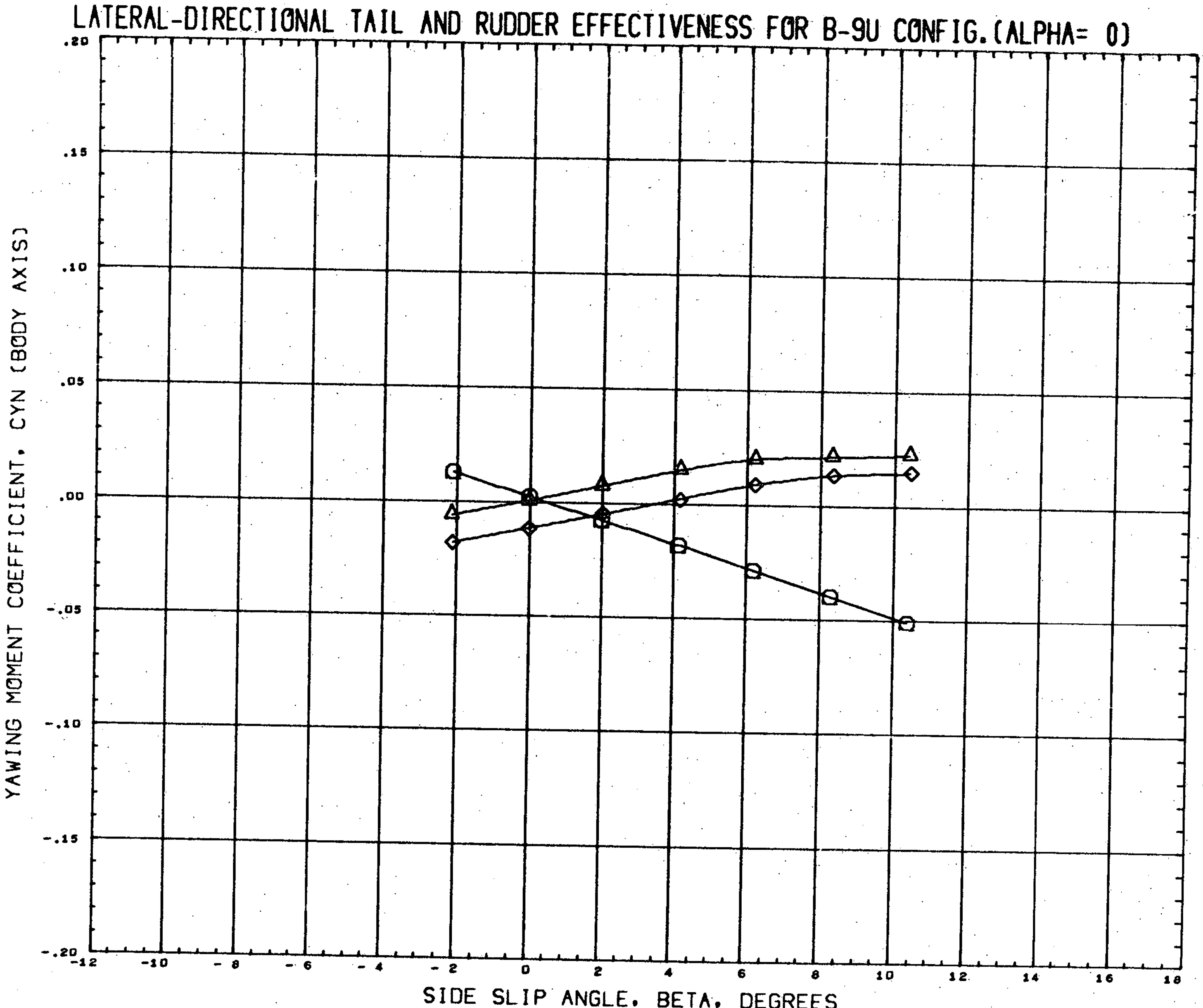


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(A350DA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS				
(B35TDA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=10	0.000	0.000	0.000	10.000

MACH 4.959

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	



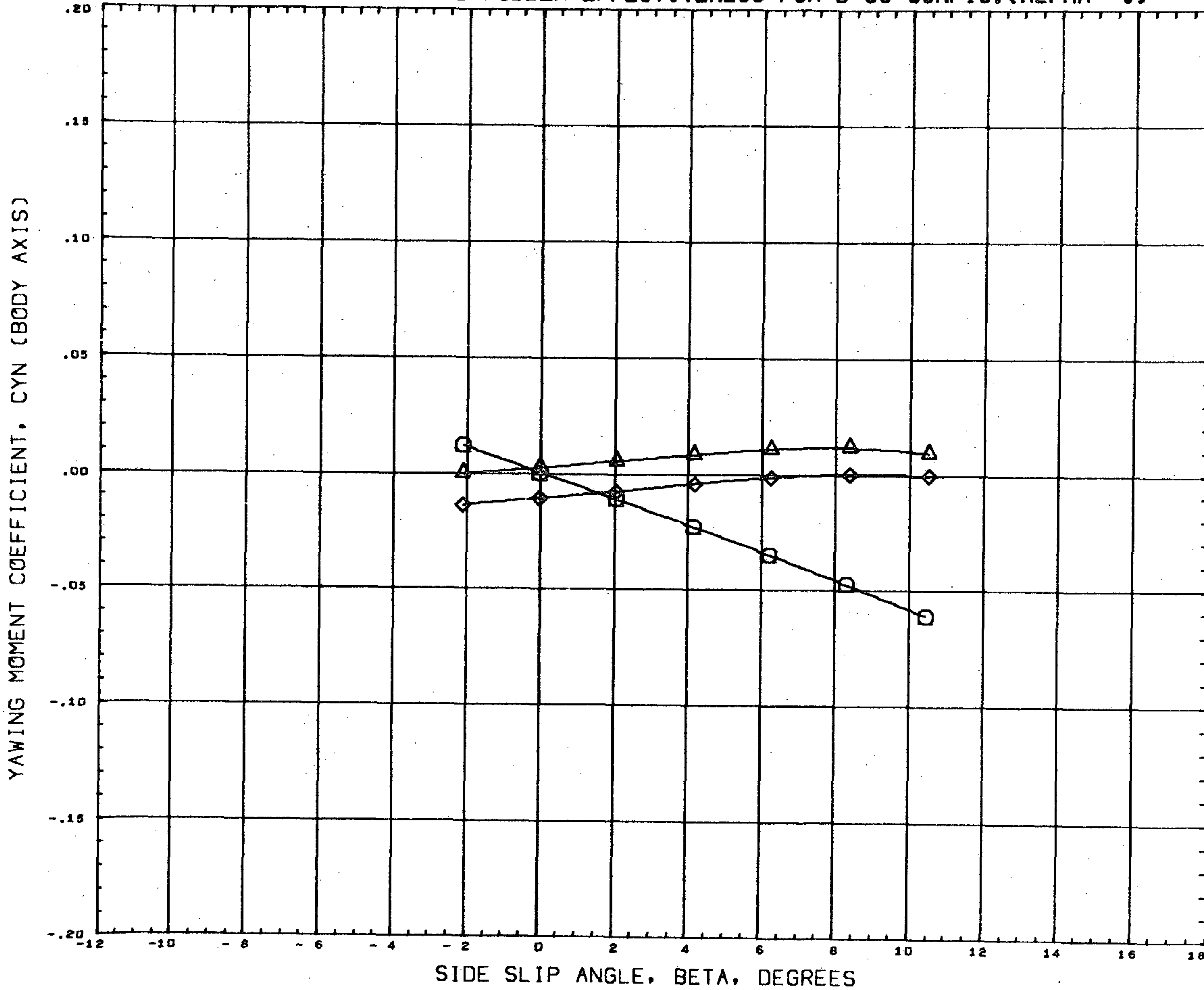
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=0	C=0R=0F	0.000	0.000	0.000	0.000
(B35TDA)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0	C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0	C=0 R=10	0.000	0.000	0.000	10.000

MACH 1.004

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)



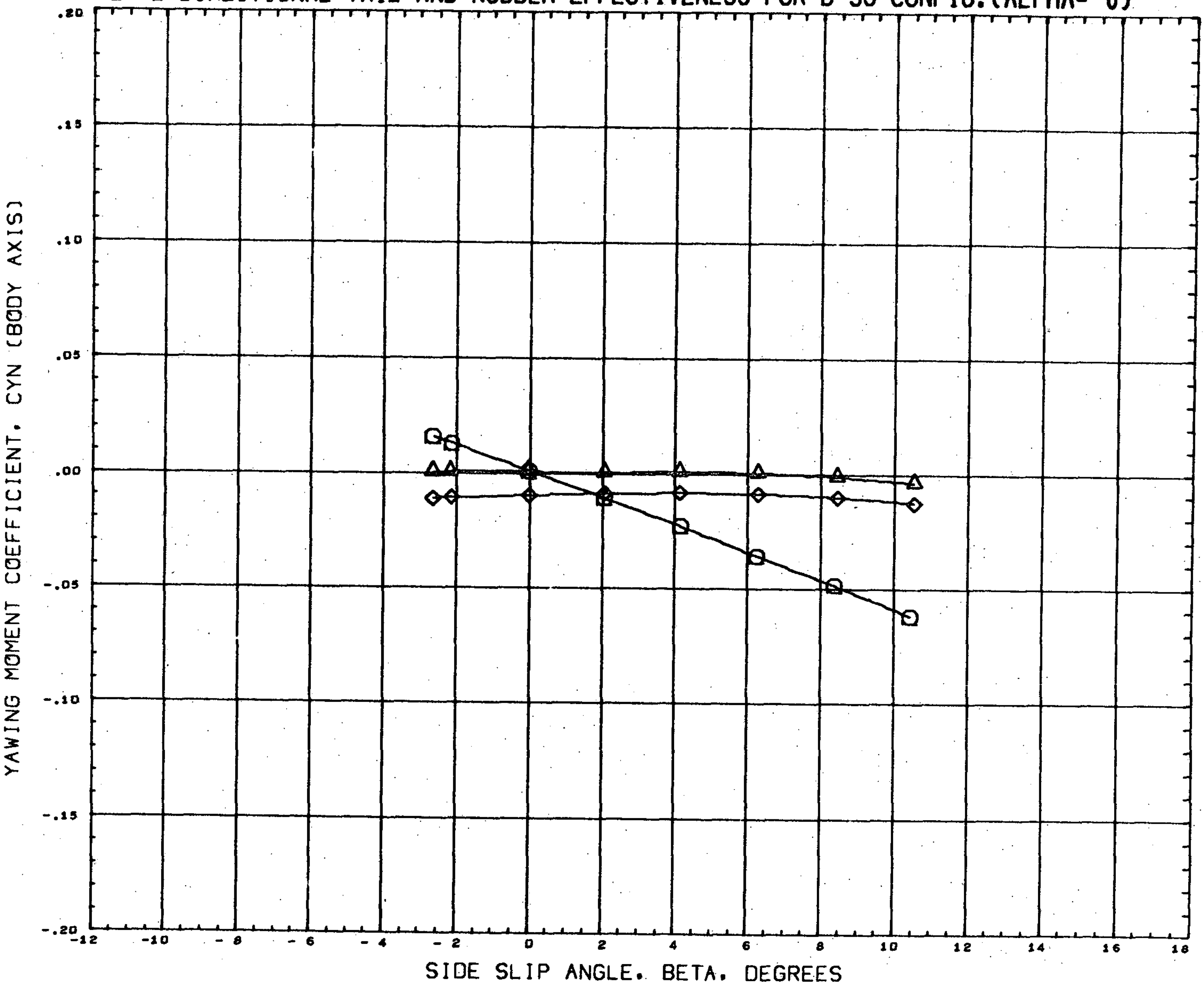
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	MSFC TWT-493 GD/C B25W19C8 ALPHA=0 C=0R=0F	0.000	0.000	0.000	0.000
(B35TDA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=10	0.000	0.000	0.000	10.000

MACH 1.196

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)



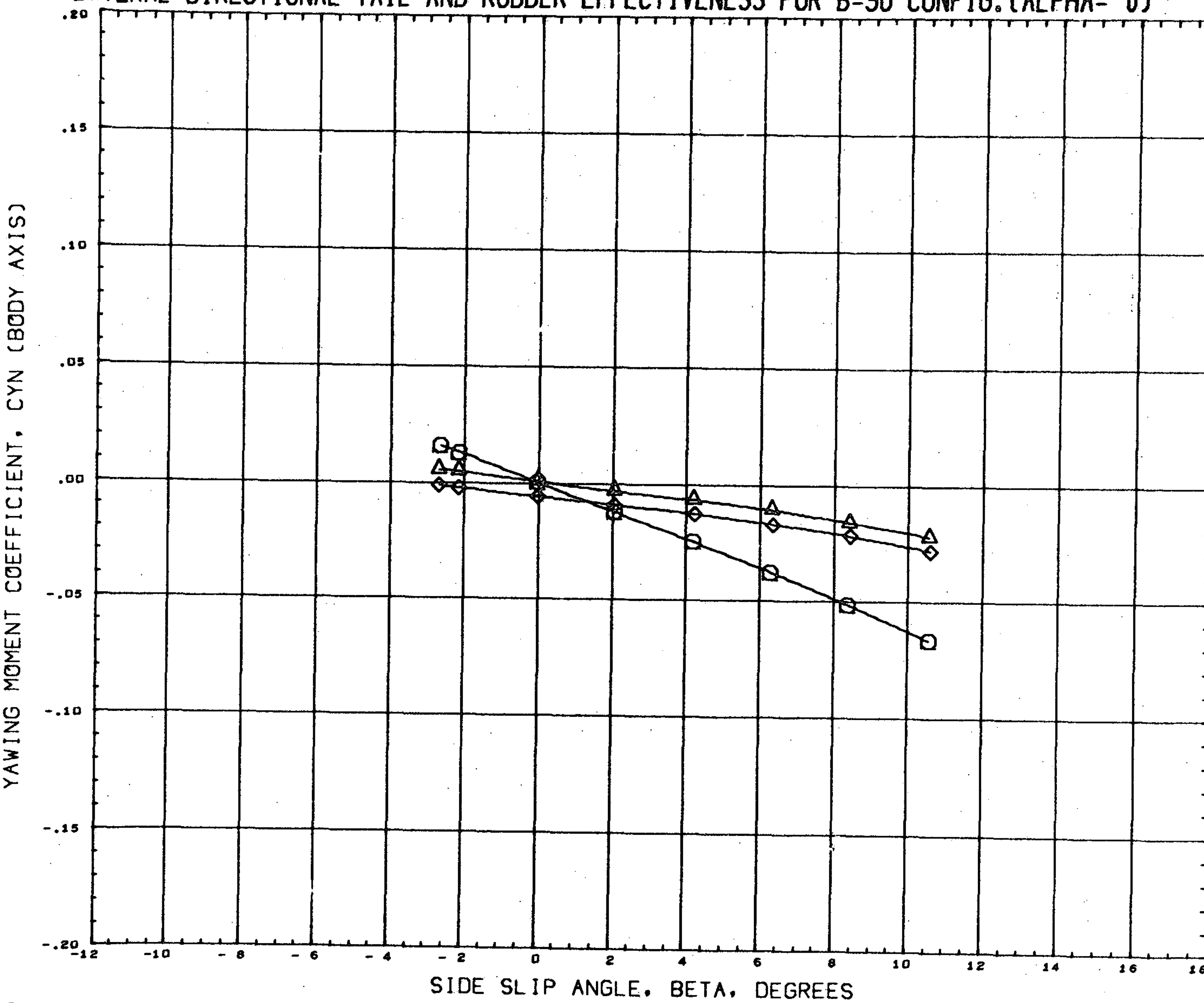
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=0 C=0R=0F	0.000	0.000	0.000	0.000
(B35TDA)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=10	0.000	0.000	0.000	10.000

MACH 1.466

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)



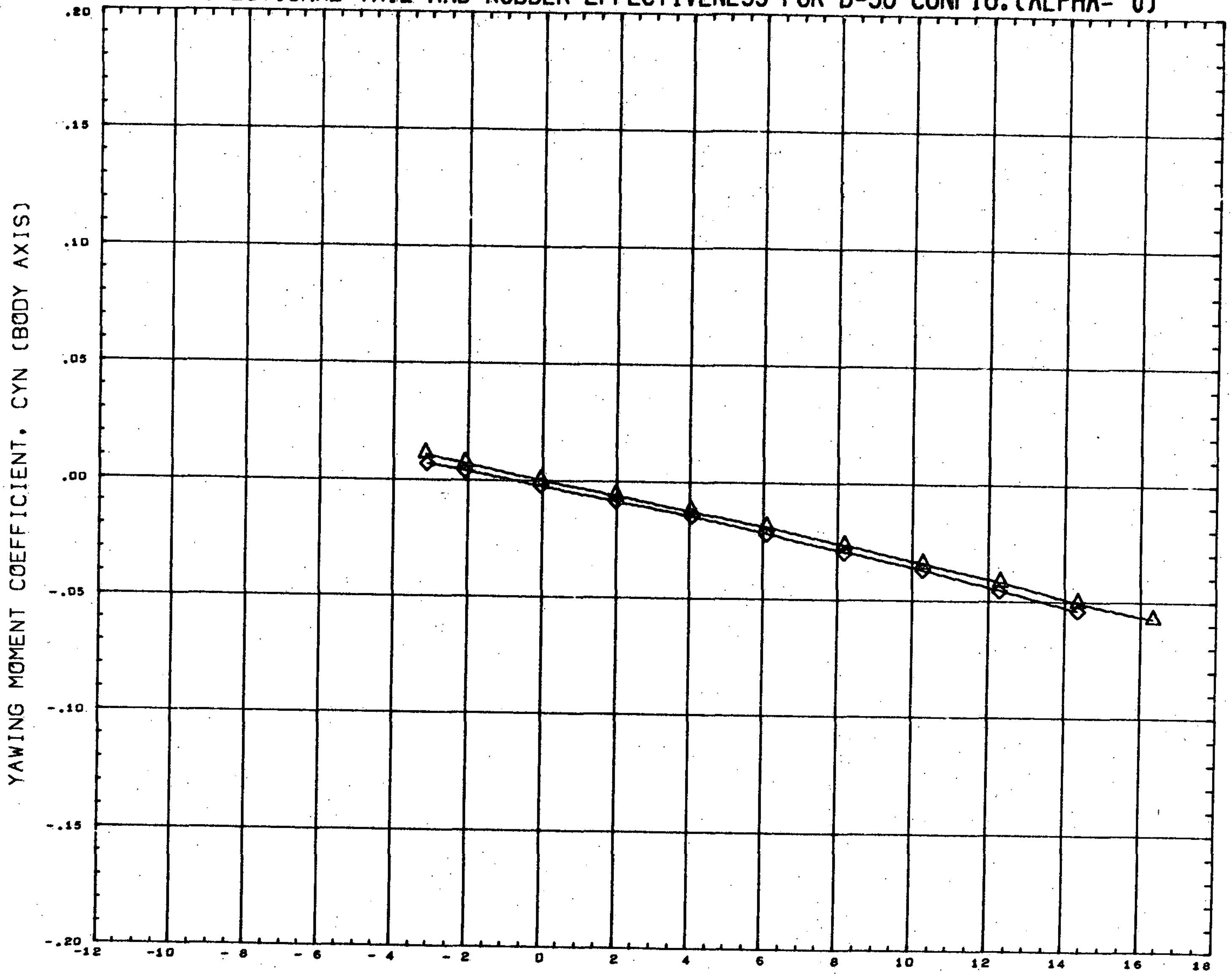
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=0 C=DR=0F	0.000	0.000	0.000	0.000
(B35TDA)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=10	0.000	0.000	0.000	10.000

MACH 1.950

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)

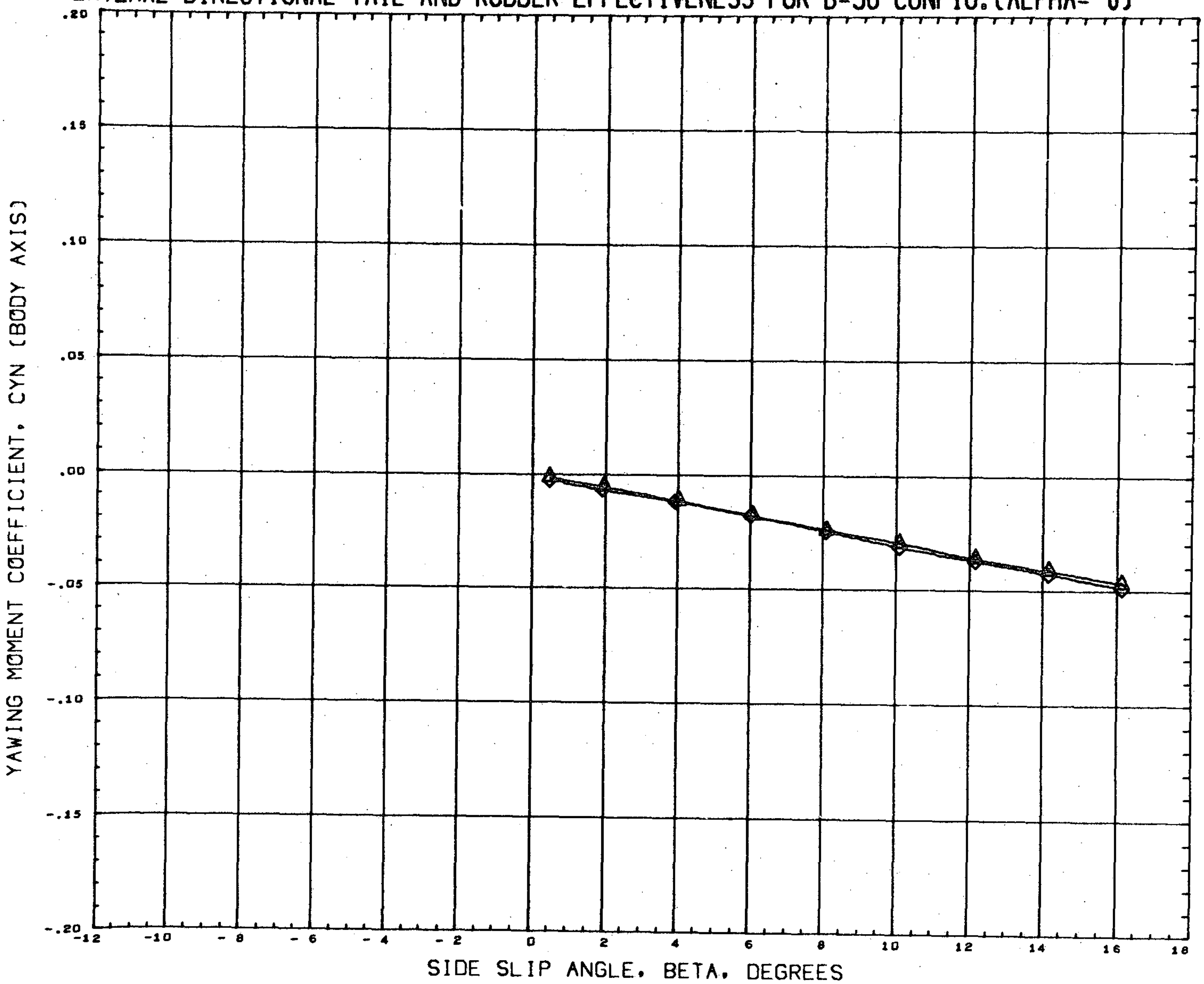


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS				
(B35TDA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=10	0.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)



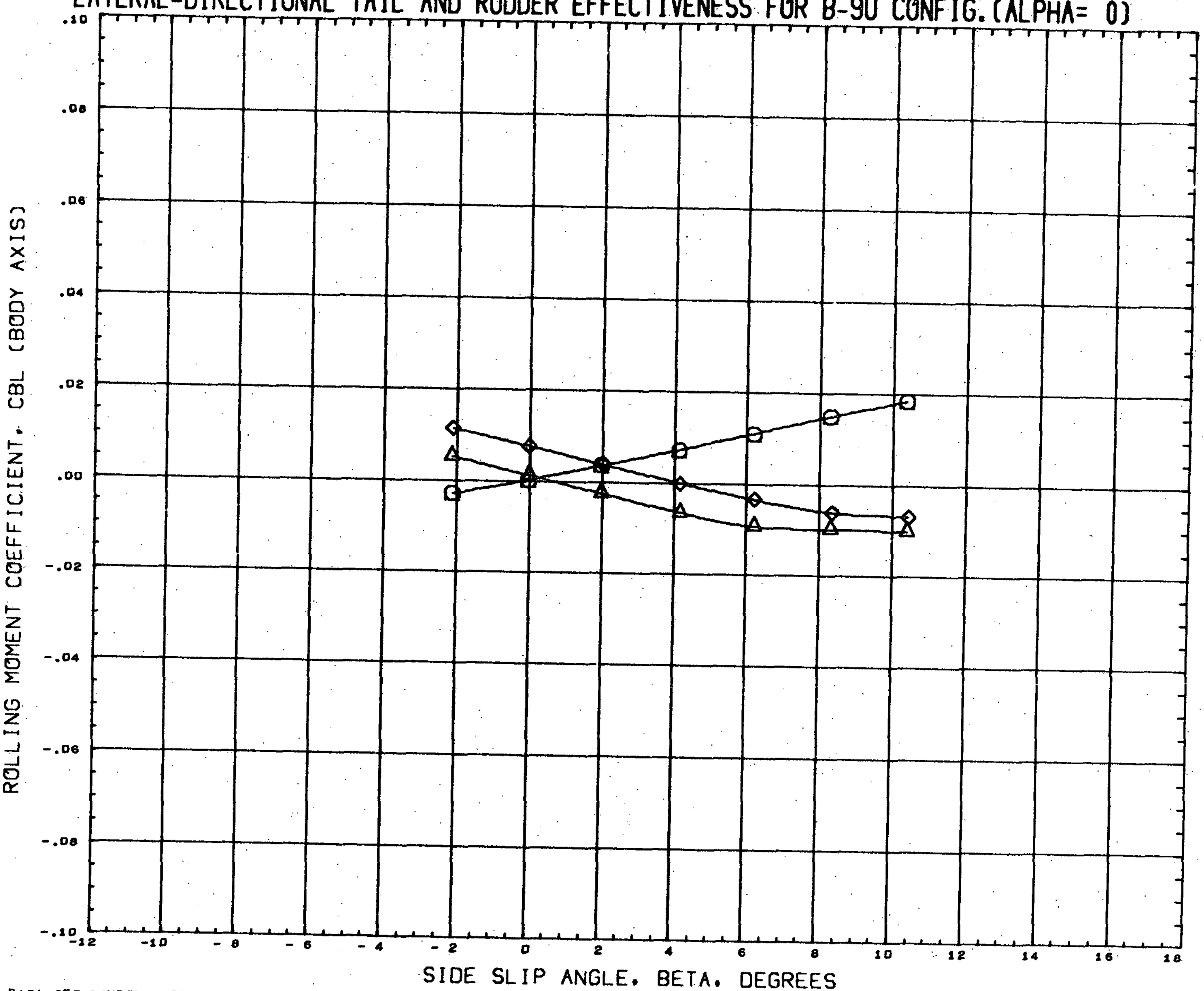
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000
(B35TDA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=10	0.000	0.000	0.000	10.000

MACH 4.959

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG. (ALPHA= 0)

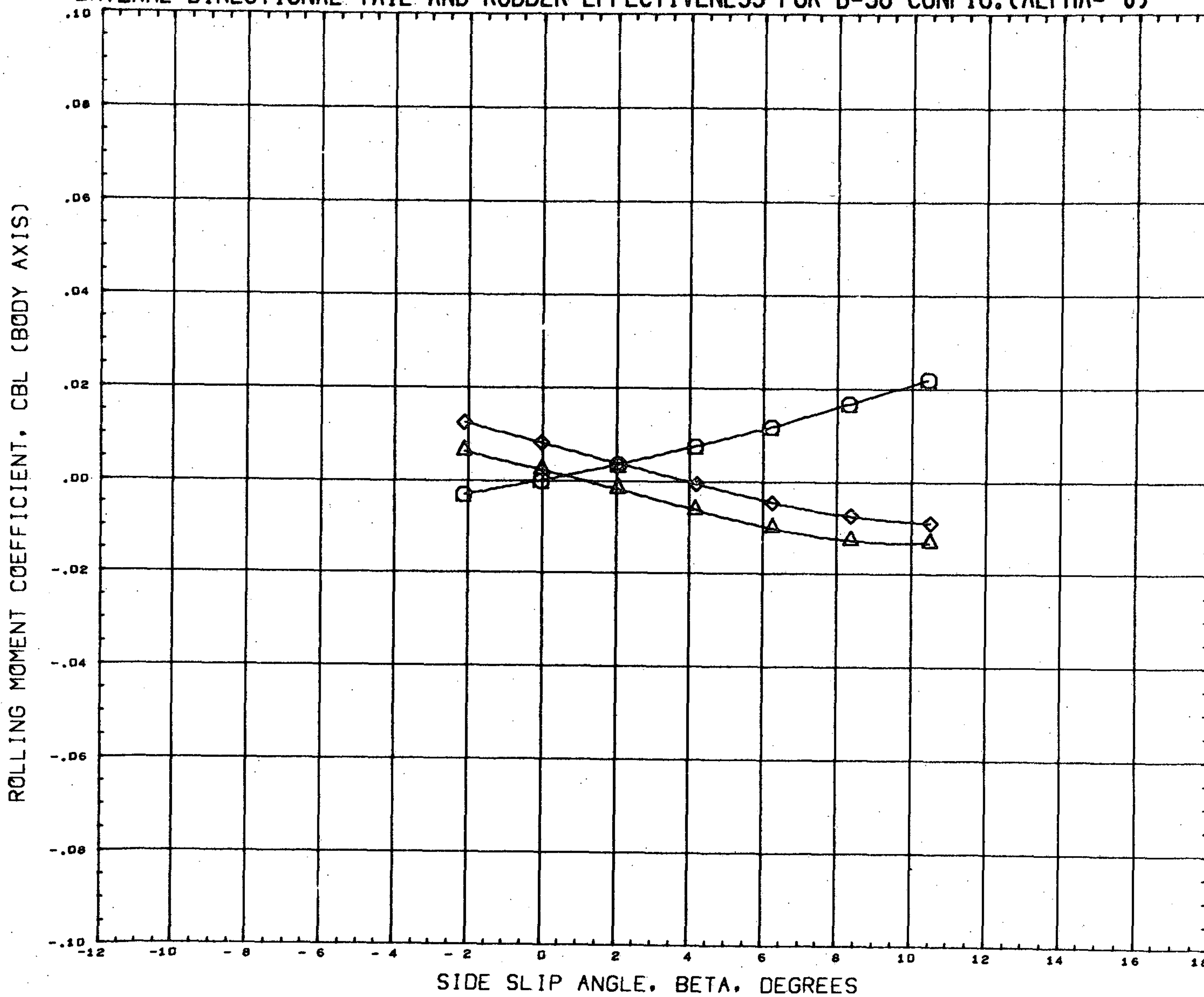


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=0 C=0R=0F	0.000	0.000	0.000	0.000
(B35TDA)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=10	0.000	0.000	0.000	10.000

MACH 1.004

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)



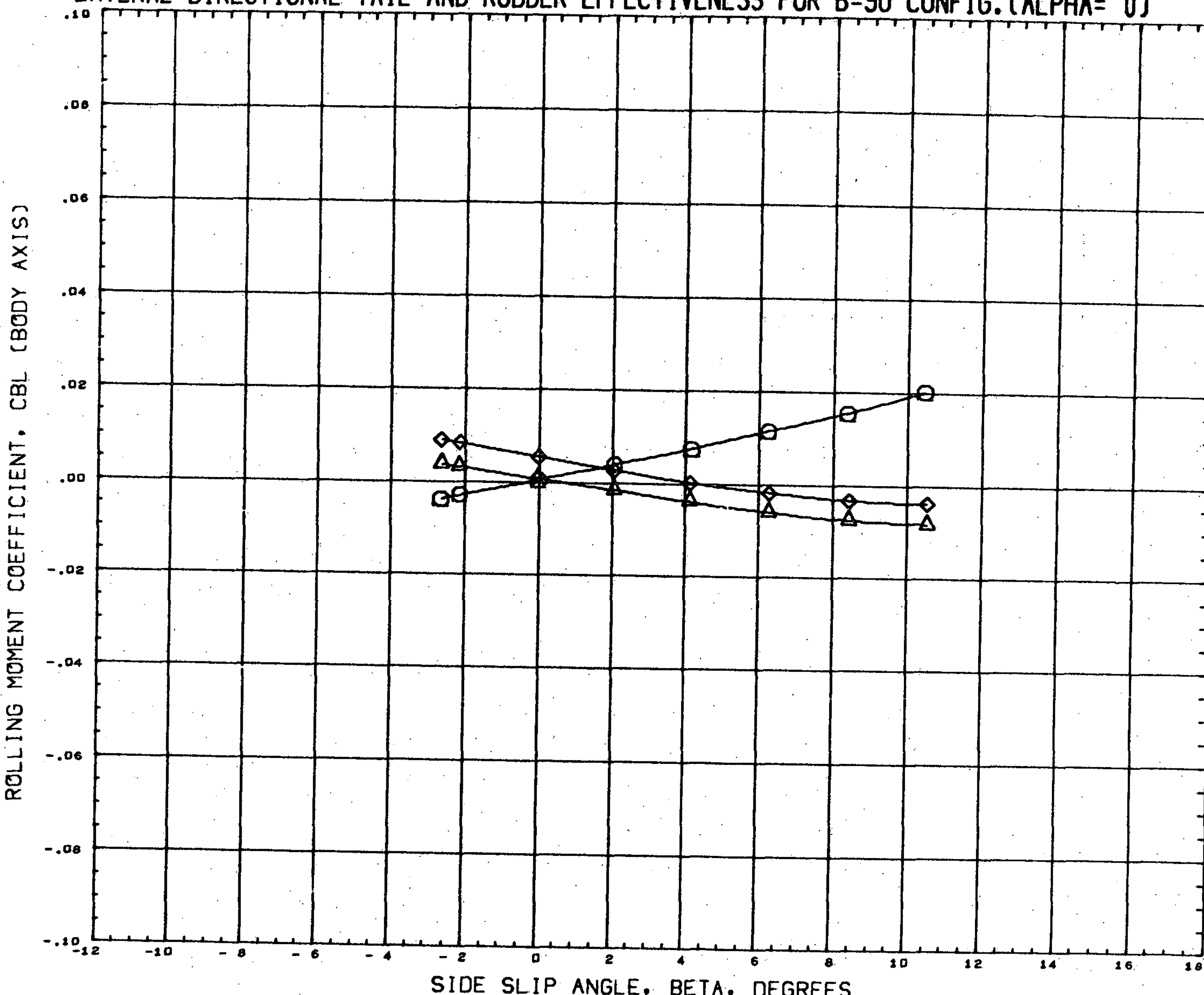
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=0	C=OR=OF	0.000	0.000	0.000	0.000
(B35TDA)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0	C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0	C=0 R=10	0.000	0.000	0.000	10.000

MACH 1.196

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)

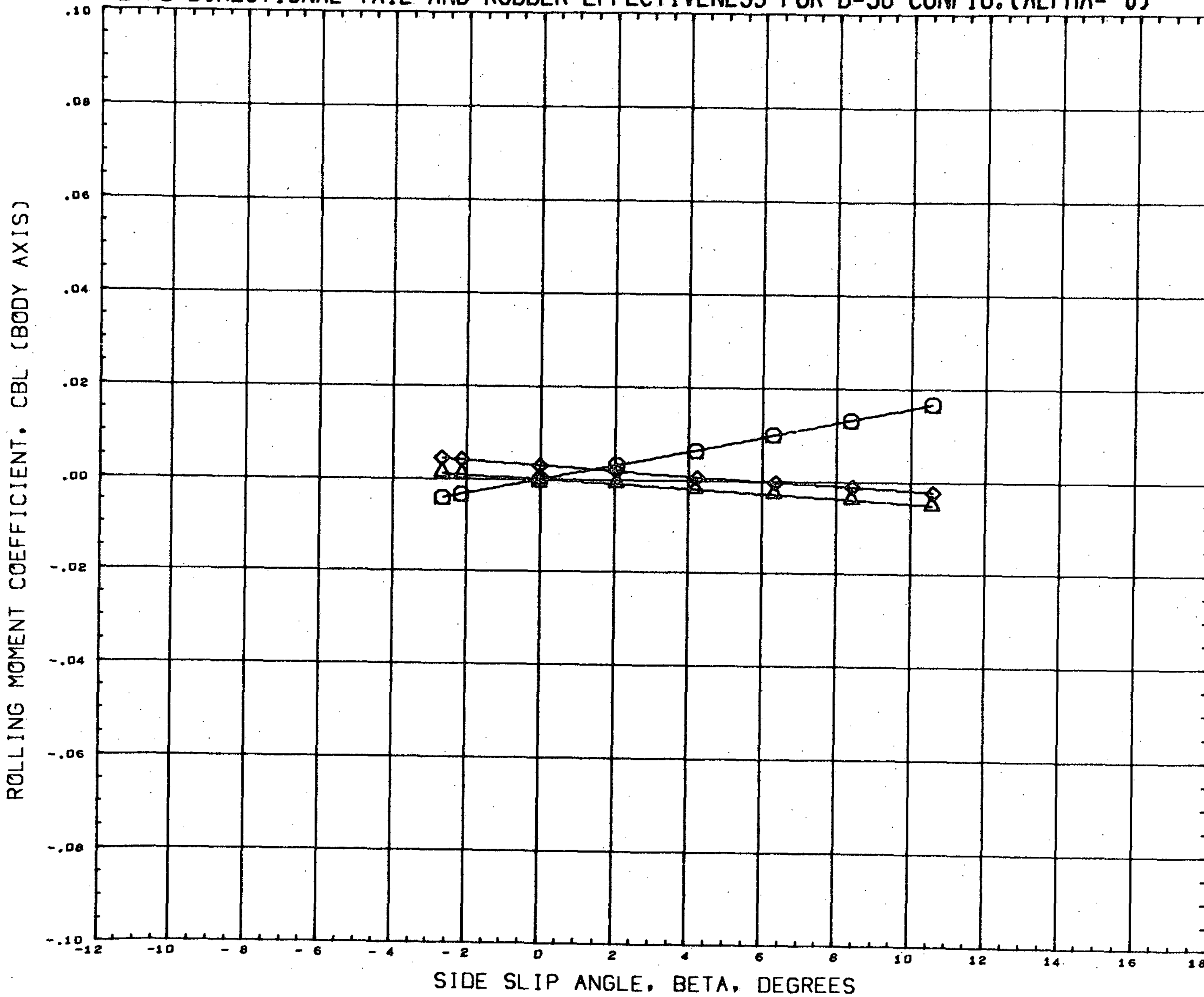


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=0 C=0R=0F	0.000	0.000	0.000	0.000
(B35TDA)	△	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=0 C=0 R=10	0.000	0.000	0.000	10.000

MACH 1.466

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)

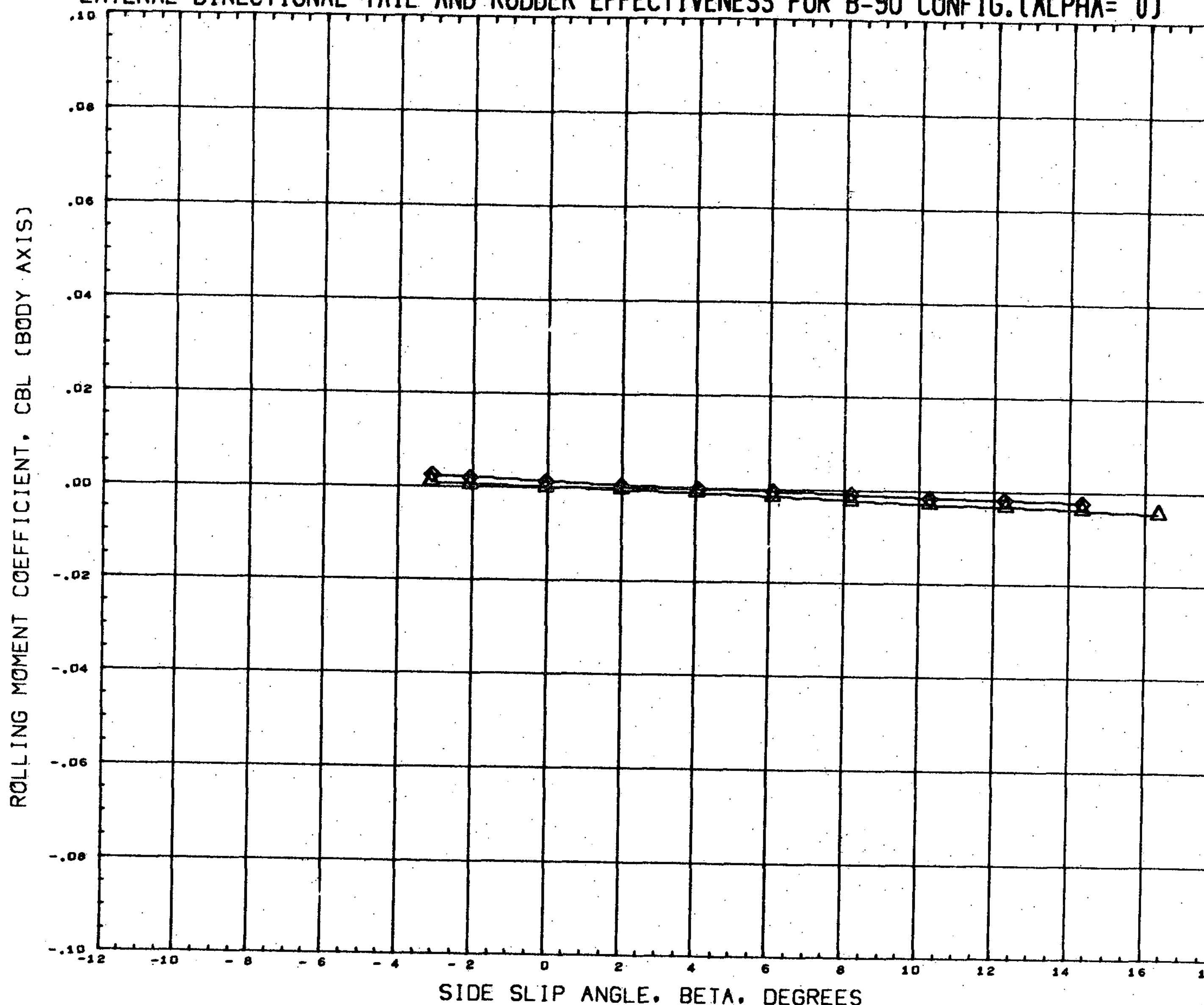


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=0 C=DR=0F	0.000	0.000	0.000	0.000
(B35TDA)	△	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=0 C=0 R=10	0.000	0.000	0.000	10.000

MACH 1.950

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)



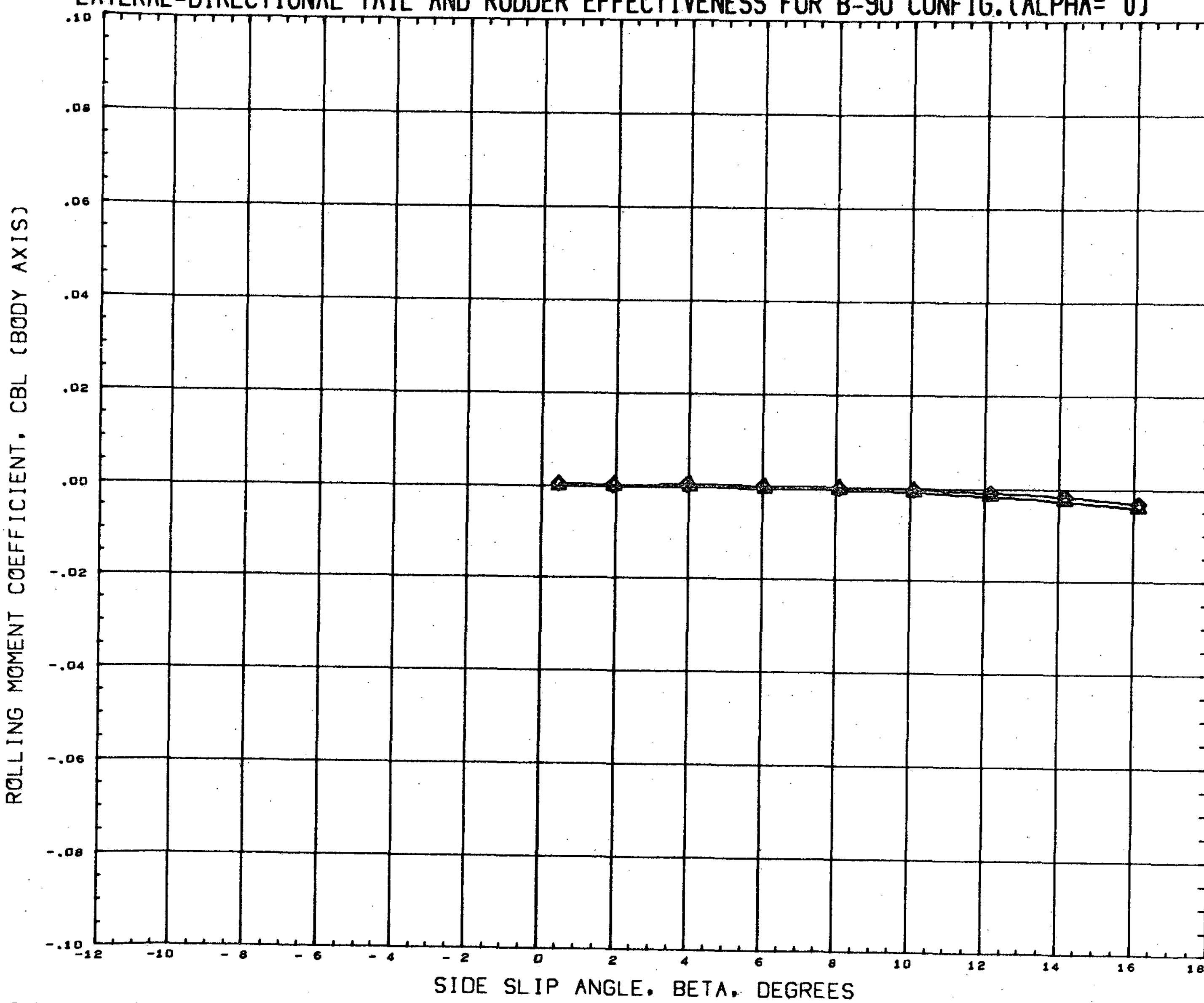
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS				
(B35TDA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=10	0.000	0.000	0.000	10.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

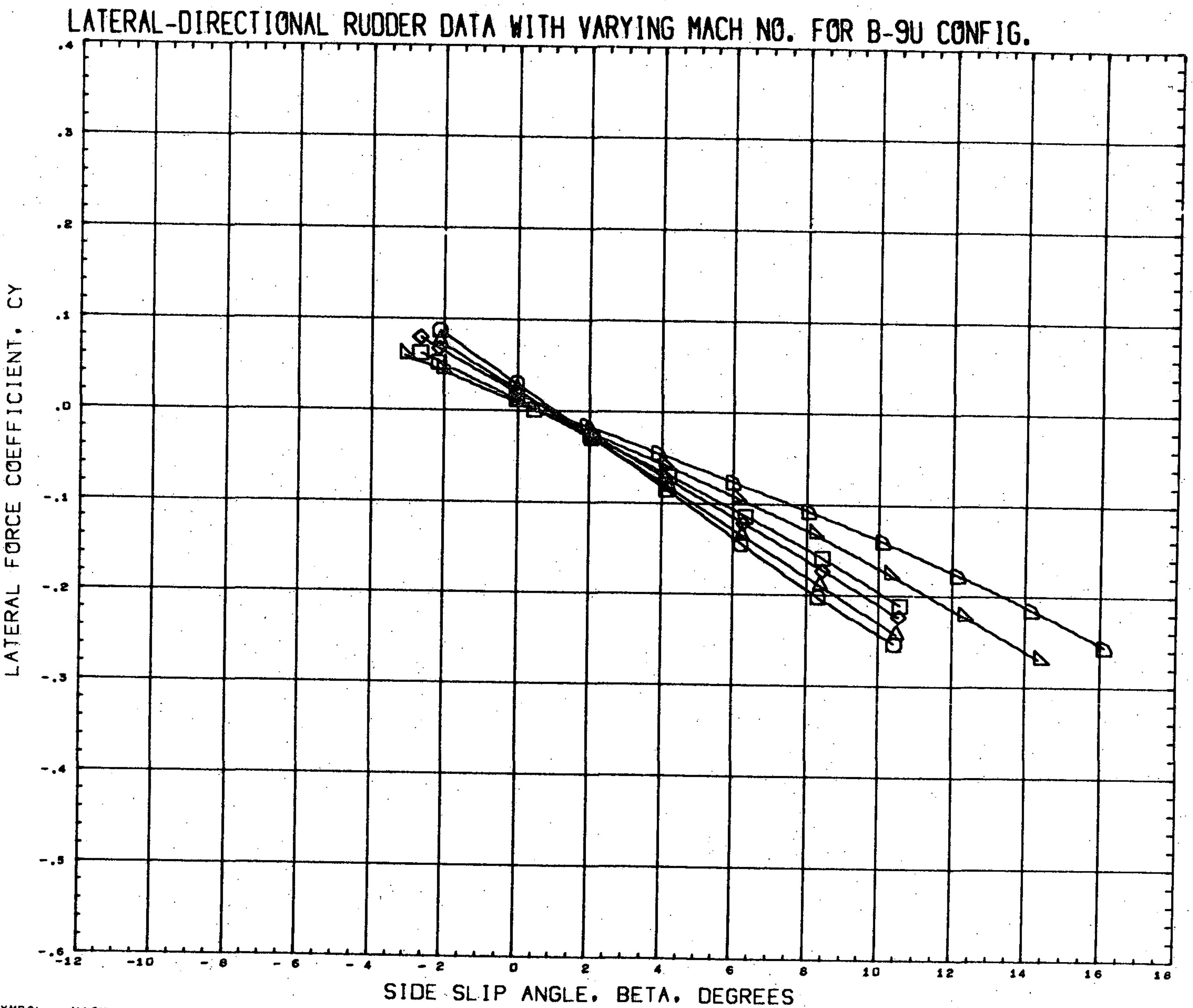
LATERAL-DIRECTIONAL TAIL AND RUDDER EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 0)



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVON	CANARD	RUDDER
(A35ODA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS				
(B35TDA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000	0.000	0.000	0.000
(A35RDB)	◇	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=10	0.000	0.000	0.000	10.000

MACH 4.959

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	



SYMBOL	MACH
○	0.996
△	1.199
◇	1.462
□	1.948
◺	2.990
◻	4.959

PARAMETRIC VALUES

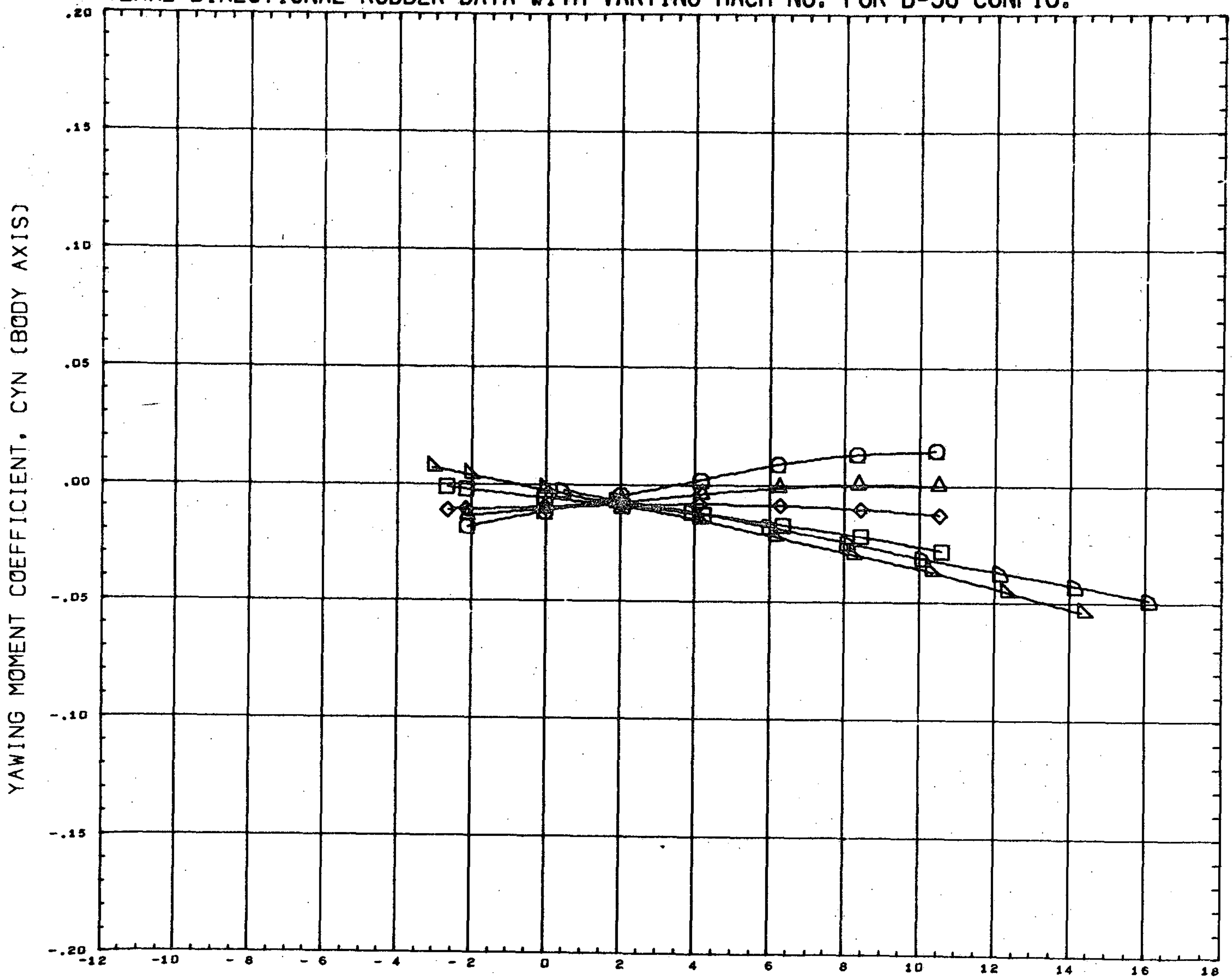
ALPHA	0.000	ELEVON	0.000
CANARD	0.000	RUDDER	10.000

REFERENCE FILE CONVAIR TN-71-AE11

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL RUDDER DATA WITH VARYING MACH NO. FOR B-9U CONFIG.



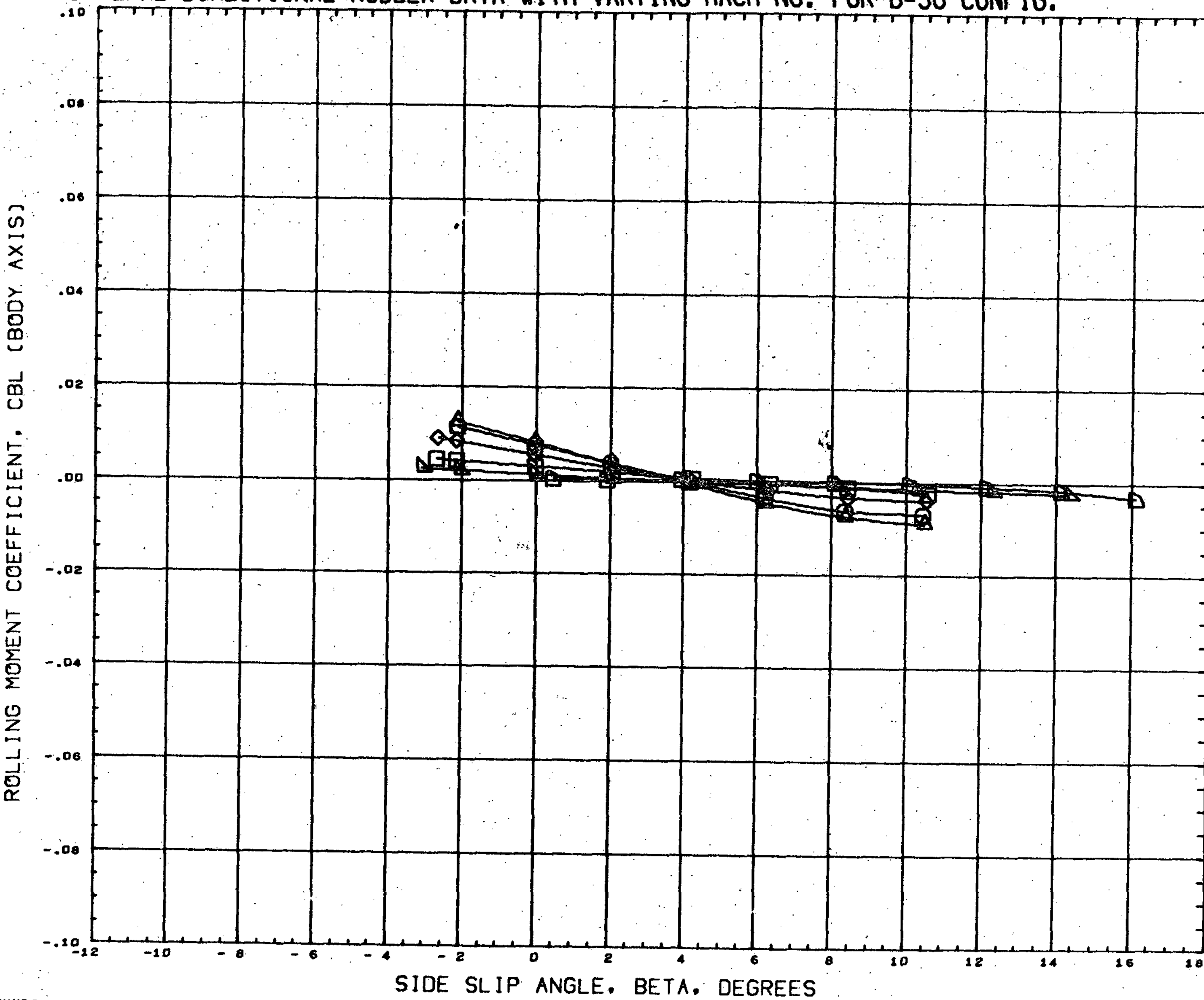
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.996	ALPHA	0.000	ELEVON	0.000
△	1.199	CANARD	0.000	RUDDER	10.000
◇	1.462				
□	1.948				
◺	2.990				
D	4.959	REFERENCE FILE	CONVAIR TN-71-AE11		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=10 (A35RDB) 04 AUG 71

LATERAL-DIRECTIONAL RUDDER DATA WITH VARYING MACH NO. FOR B-9U CONFIG.



SYMBOL	MACH
○	0.996
△	1.199
◇	1.462
□	1.948
◺	2.990
◁	4.959

PARAMETRIC VALUES

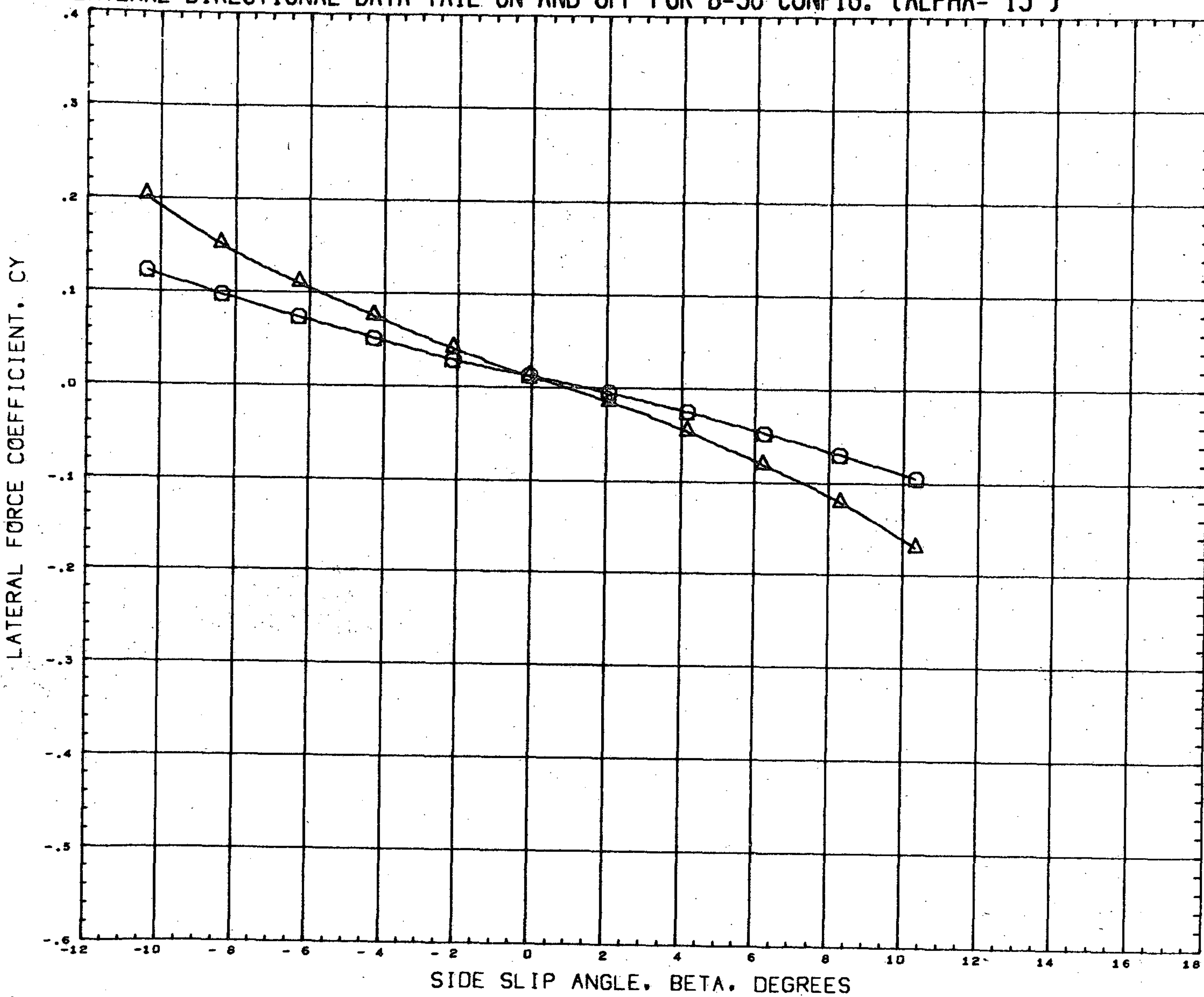
ALPHA	0.000	ELEVON	0.000
CANARD	0.000	RUDDER	10.000

REFERENCE FILE CONVAIR TN-71-AE11

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)

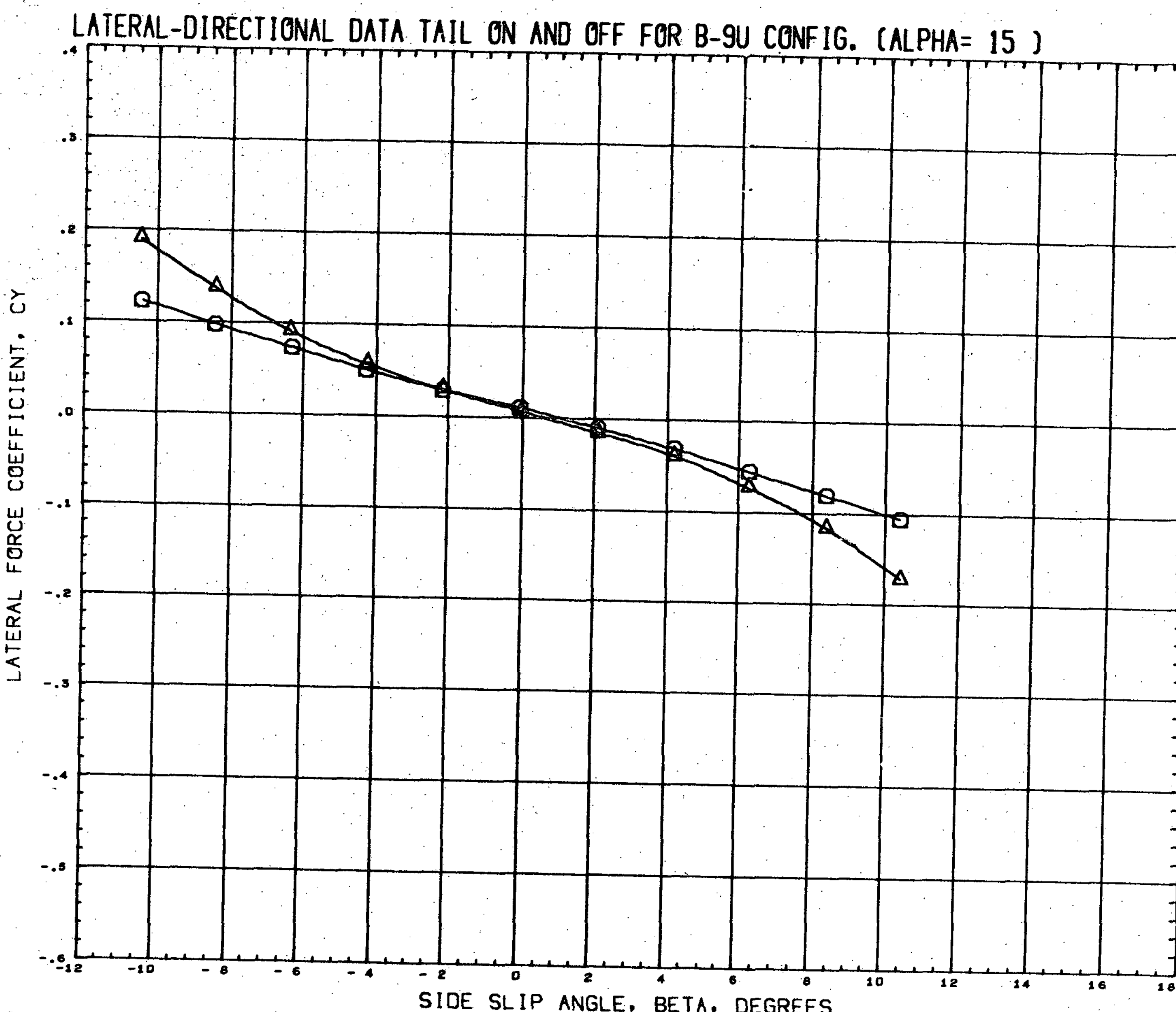


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A35OCC)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=DR=DF	15.000	0.000	0.000	0.000
(A35TCC)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 0.992

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	



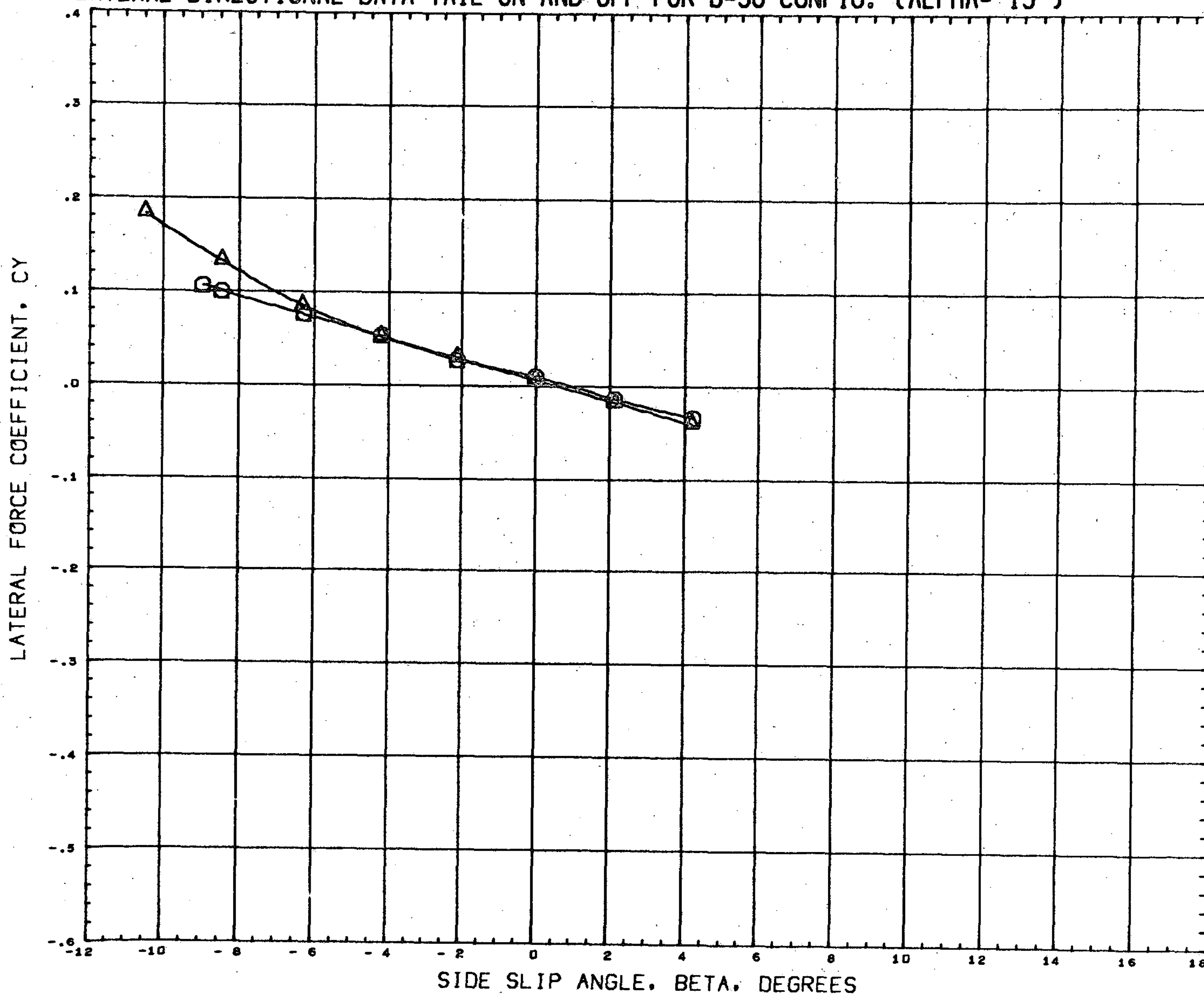
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A350CC)	O	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=DR=DF	15.000	0.000	0.000	0.000
(A351CC)	Δ	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 1.192

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)

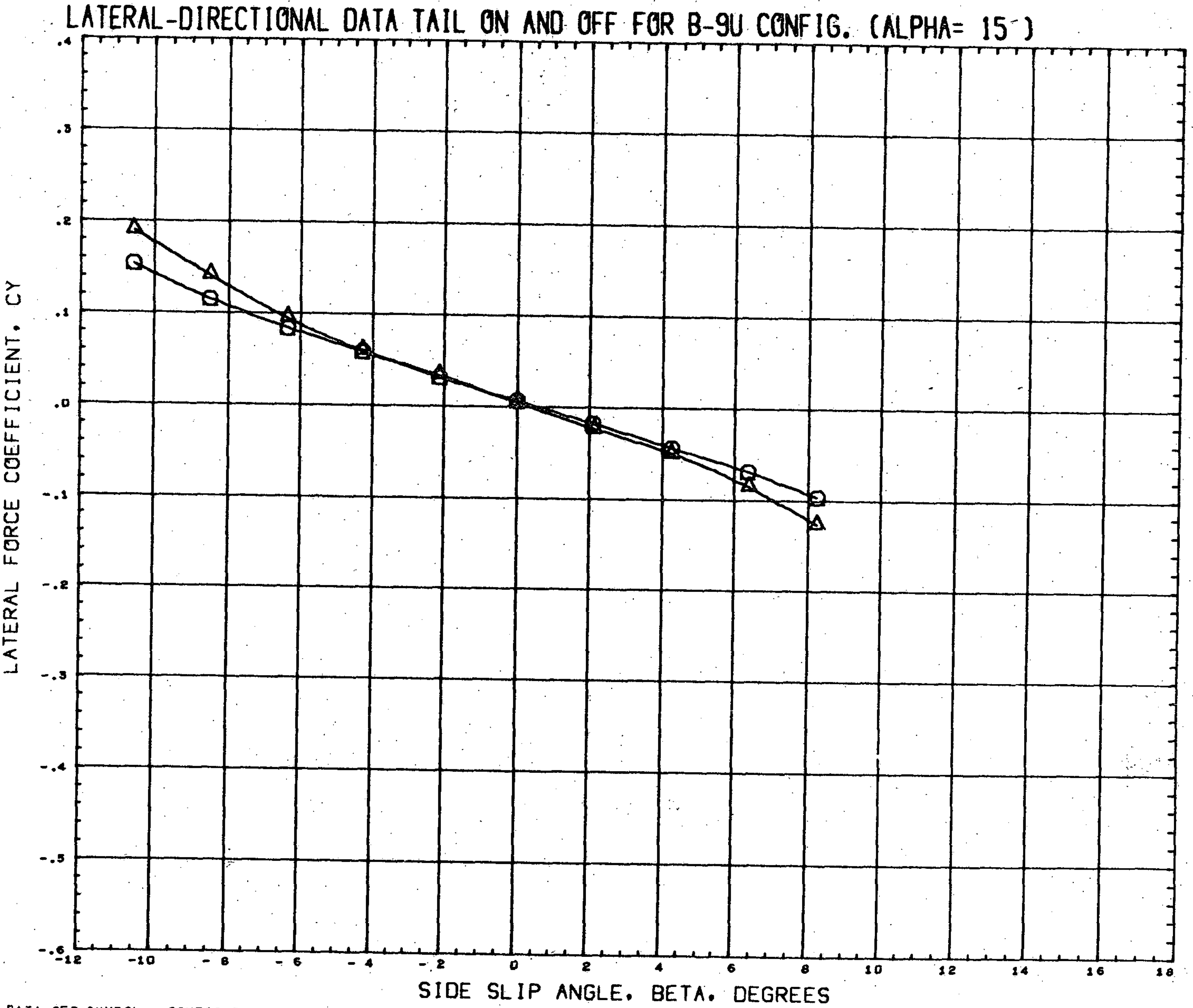


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A350CC)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=0R=0F	15.000	0.000	0.000	0.000
(A35TCC)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 1.469

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	



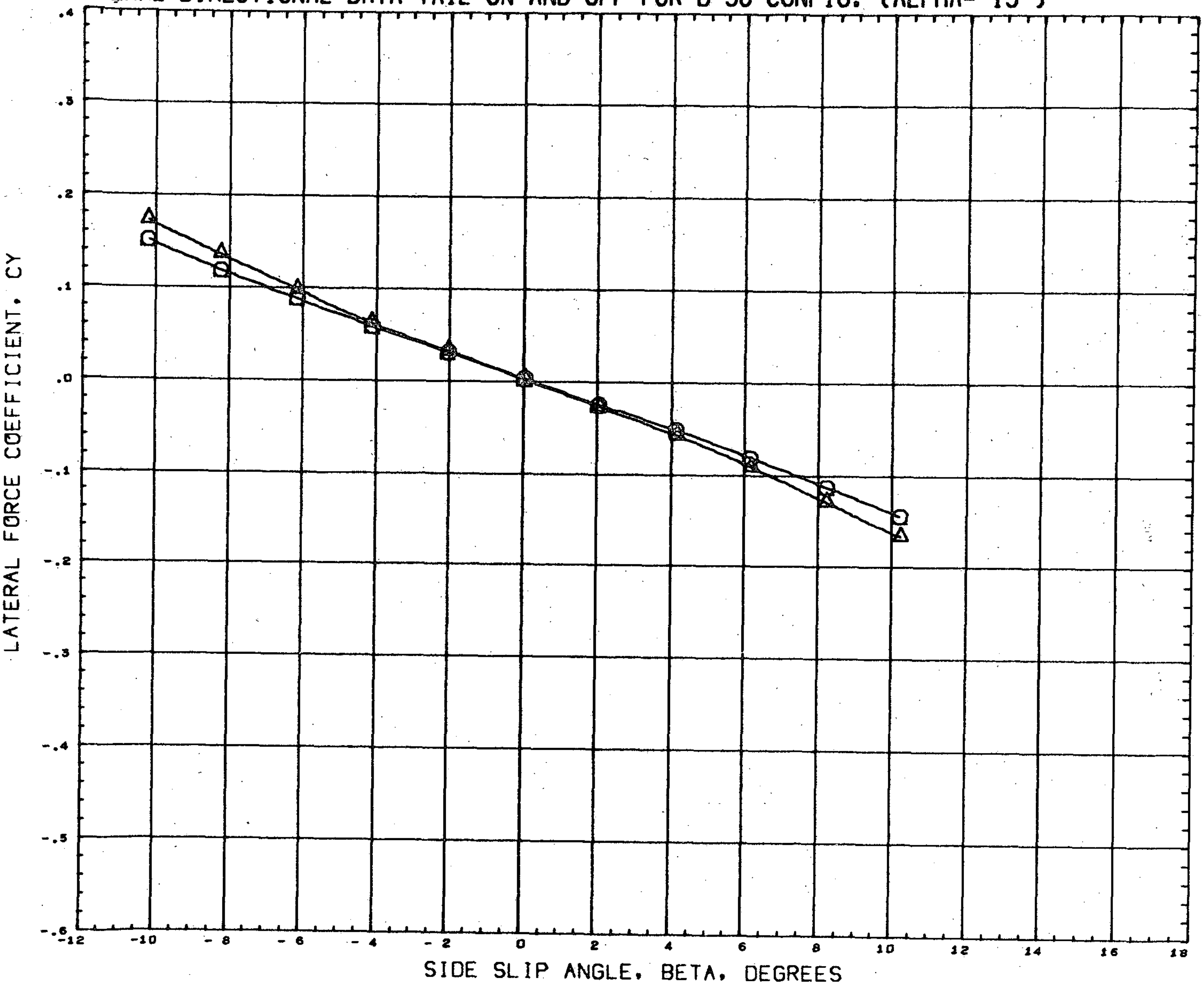
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A350CC)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000	0.000	0.000	0.000
(A35TCC)	△	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.964

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)



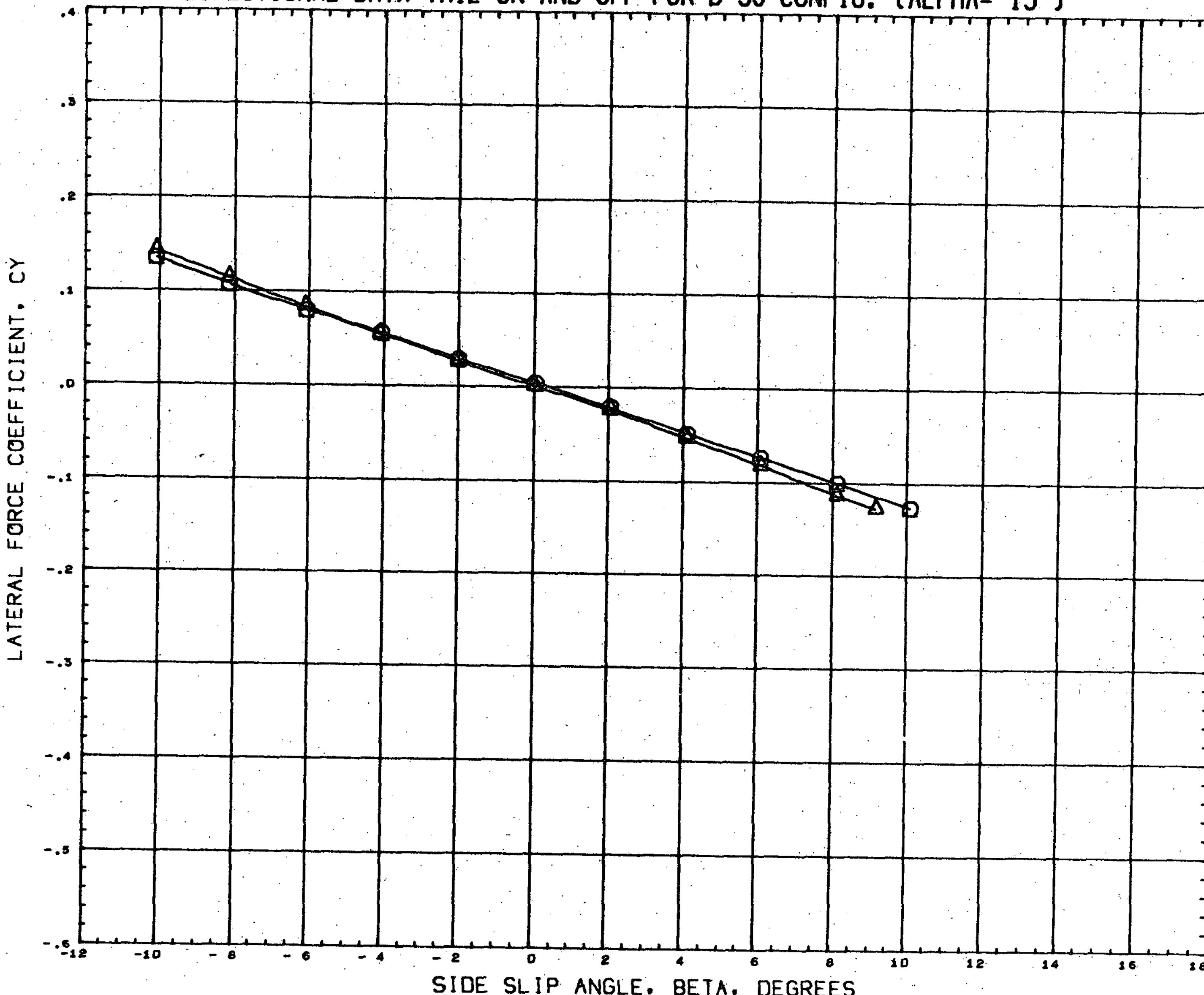
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A35OCC)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000	0.000	0.000	0.000
(A35TCC)	△	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)



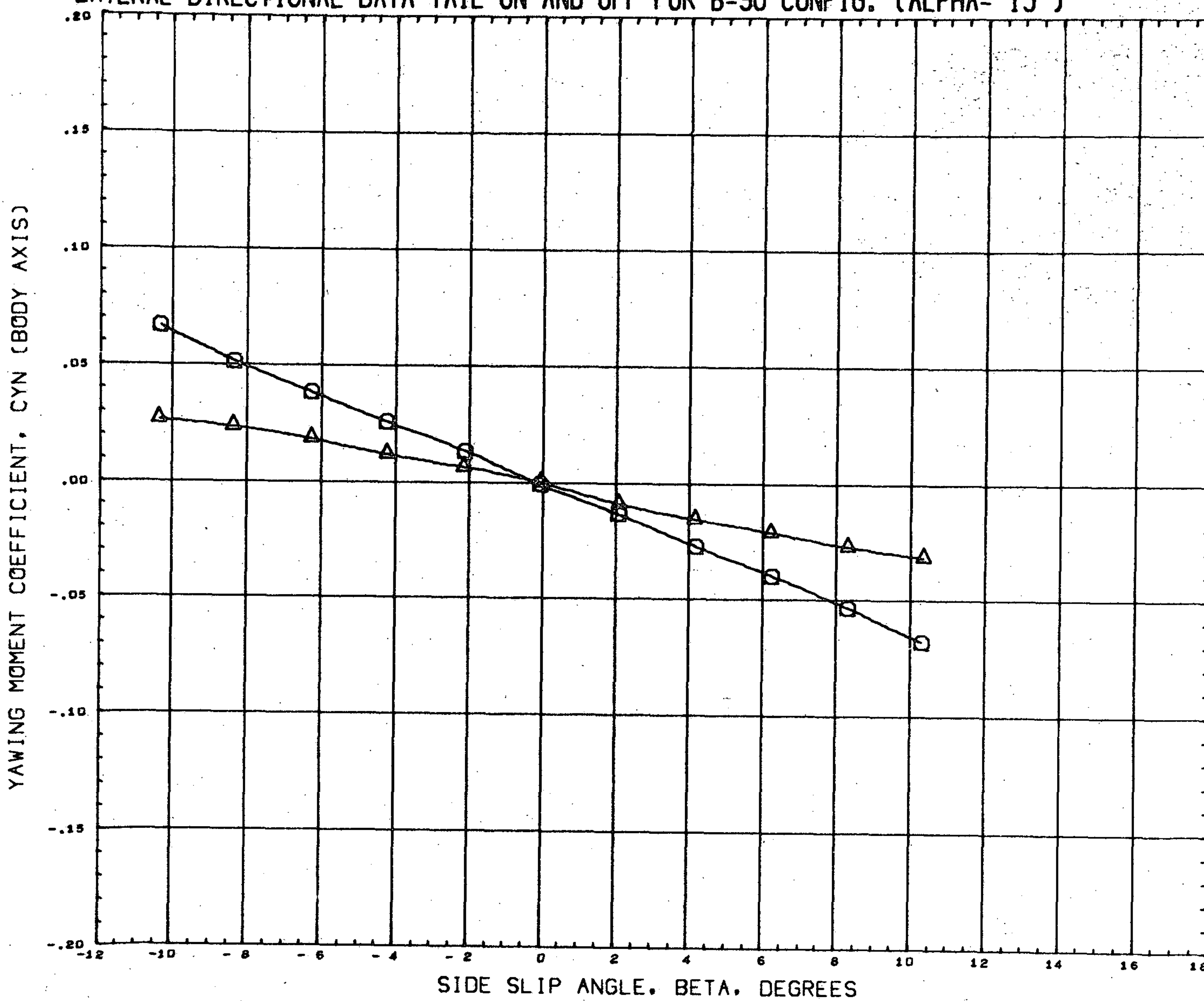
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A35OCC)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000	0.000	0.000	0.000
(A35TCC)	△	MSFC TWT-493 GD/C B25W19C8V1D	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 4.959

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A35OCC)	O	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=OR=OF	15.000	0.000	0.000	0.000
(A35TCC)	Δ	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

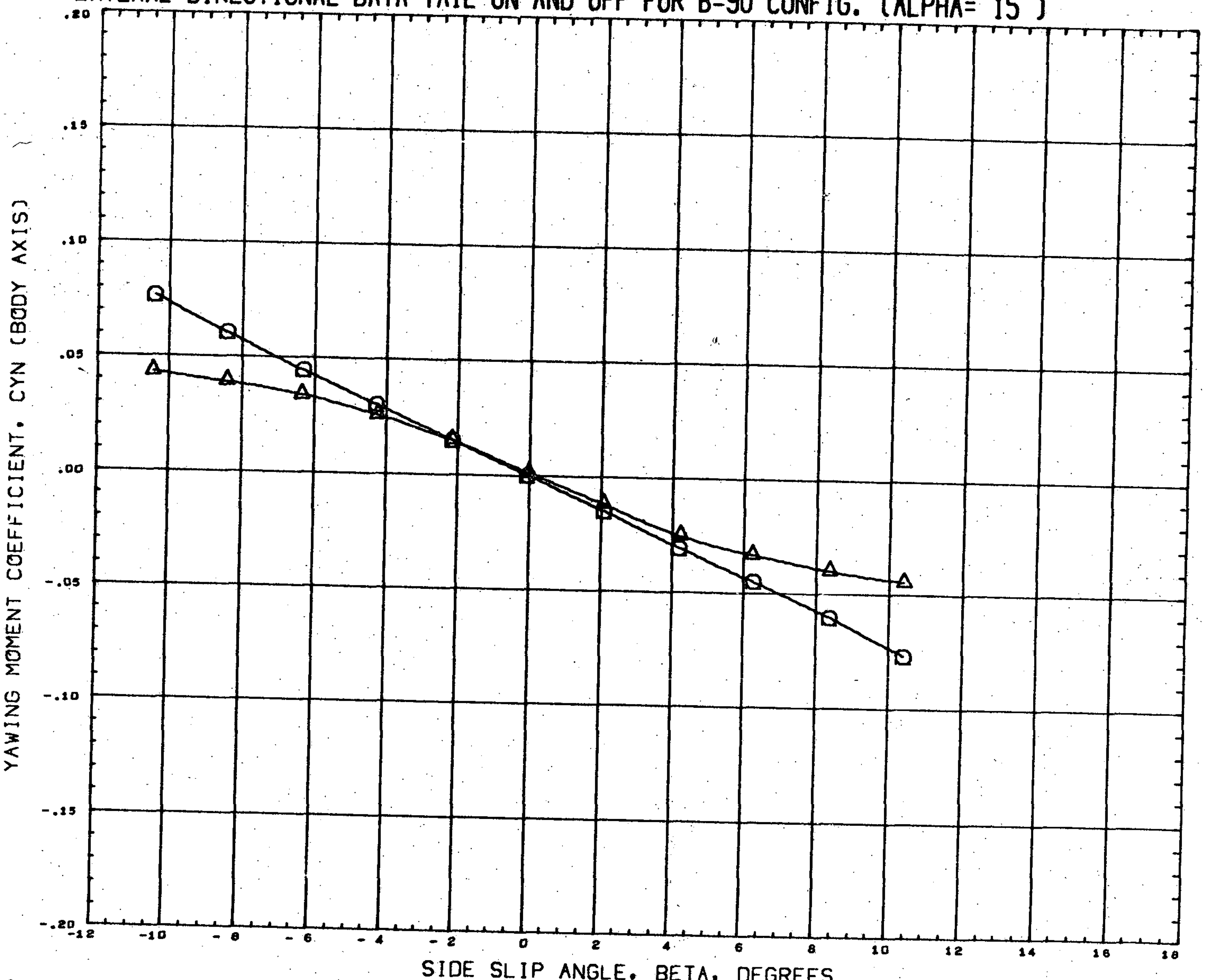
REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.992

6

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)



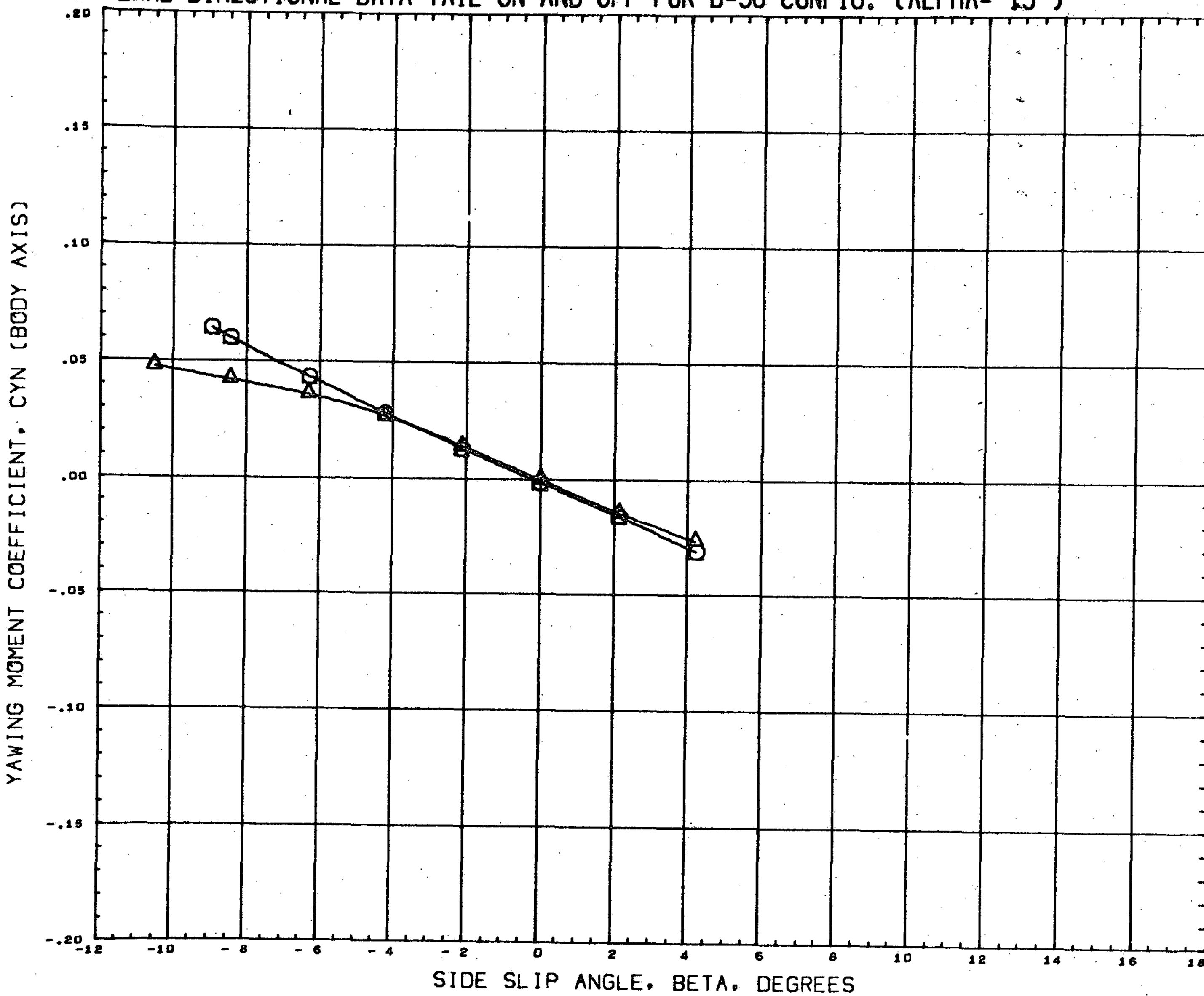
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A35OCC)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=OR=OF	15.000	0.000	0.000	0.000
(A35TCC)	△	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 1.192

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)



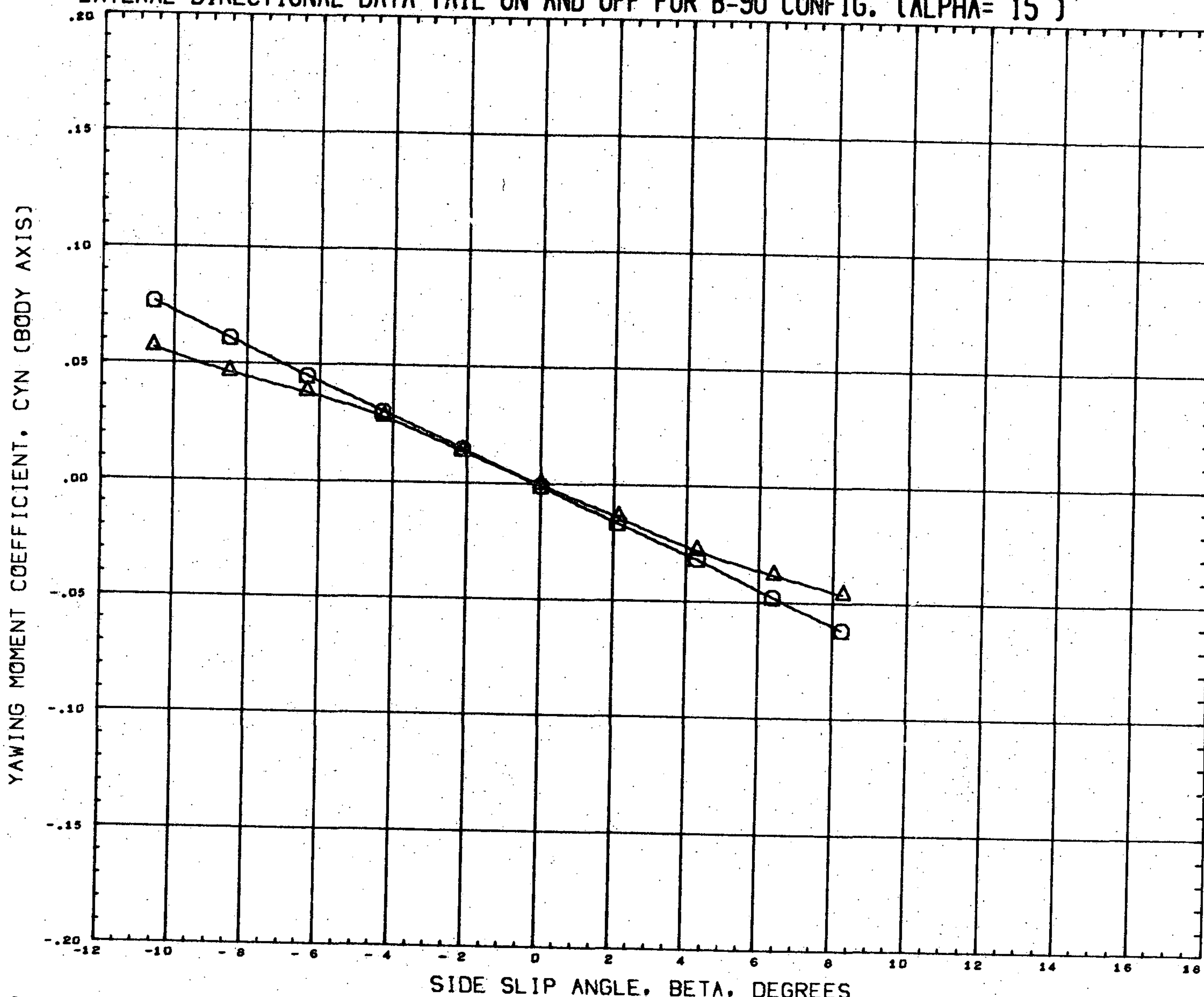
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A35OCC)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=OR=OF	15.000	0.000	0.000	0.000
(A35TCC)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=15 C=O R=O	15.000	0.000	0.000	0.000

MACH 1.469

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)



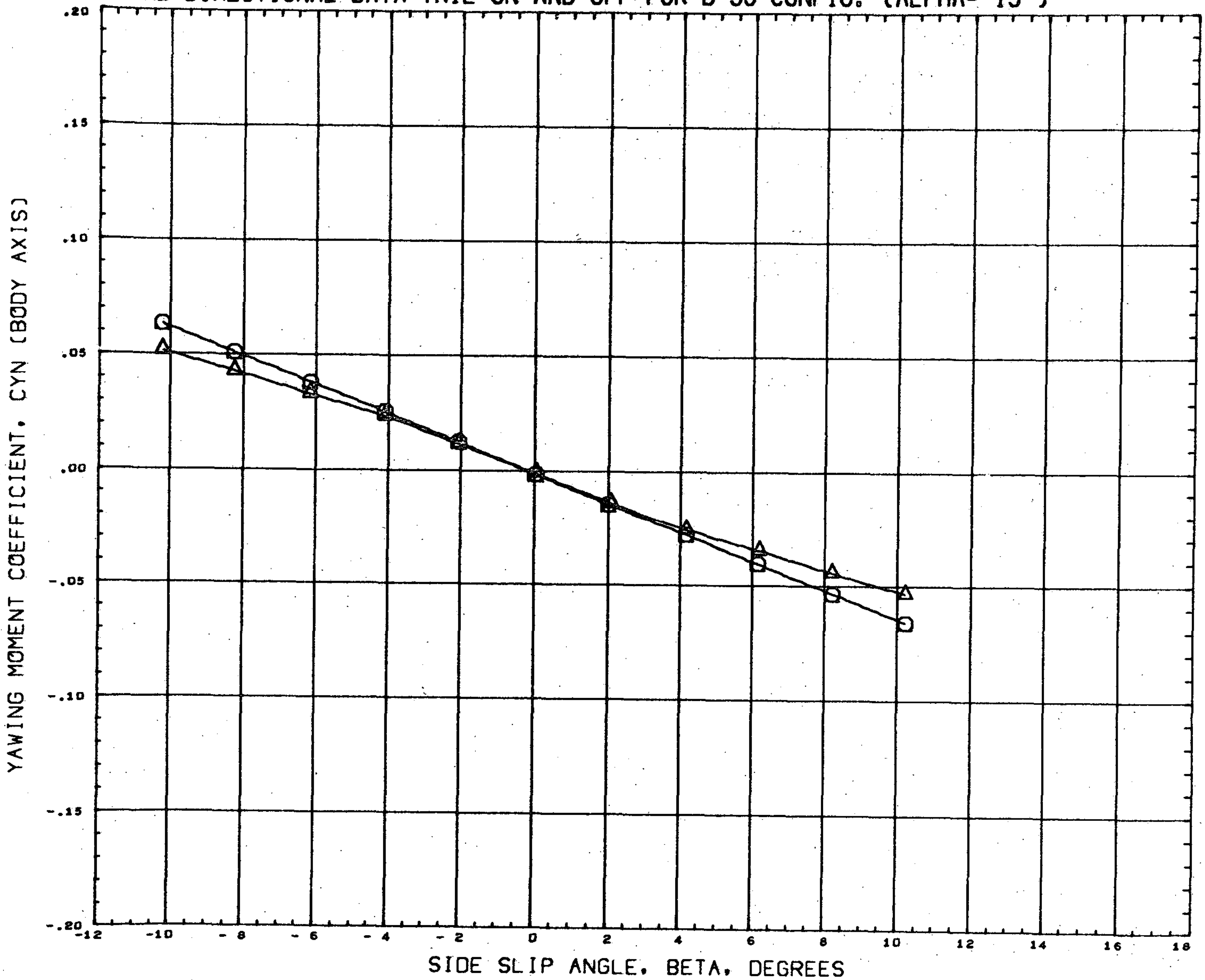
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A350CC)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000	0.000	0.000	0.000
(A35TCC)	△	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 1.964

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)



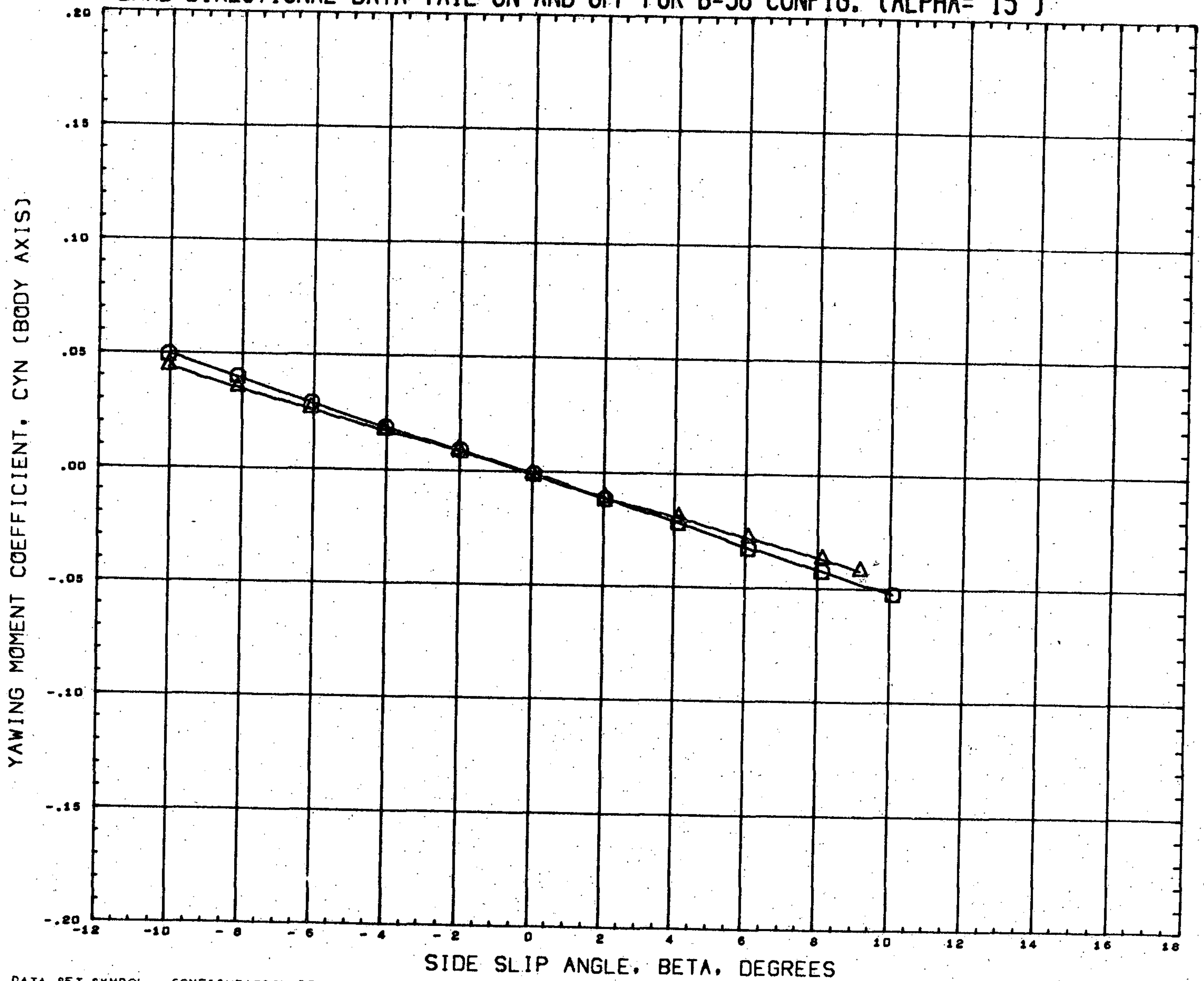
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A35OCC)	O	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=DR=DF	15.000	0.000	0.000	0.000
(A35TCC)	Δ	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)



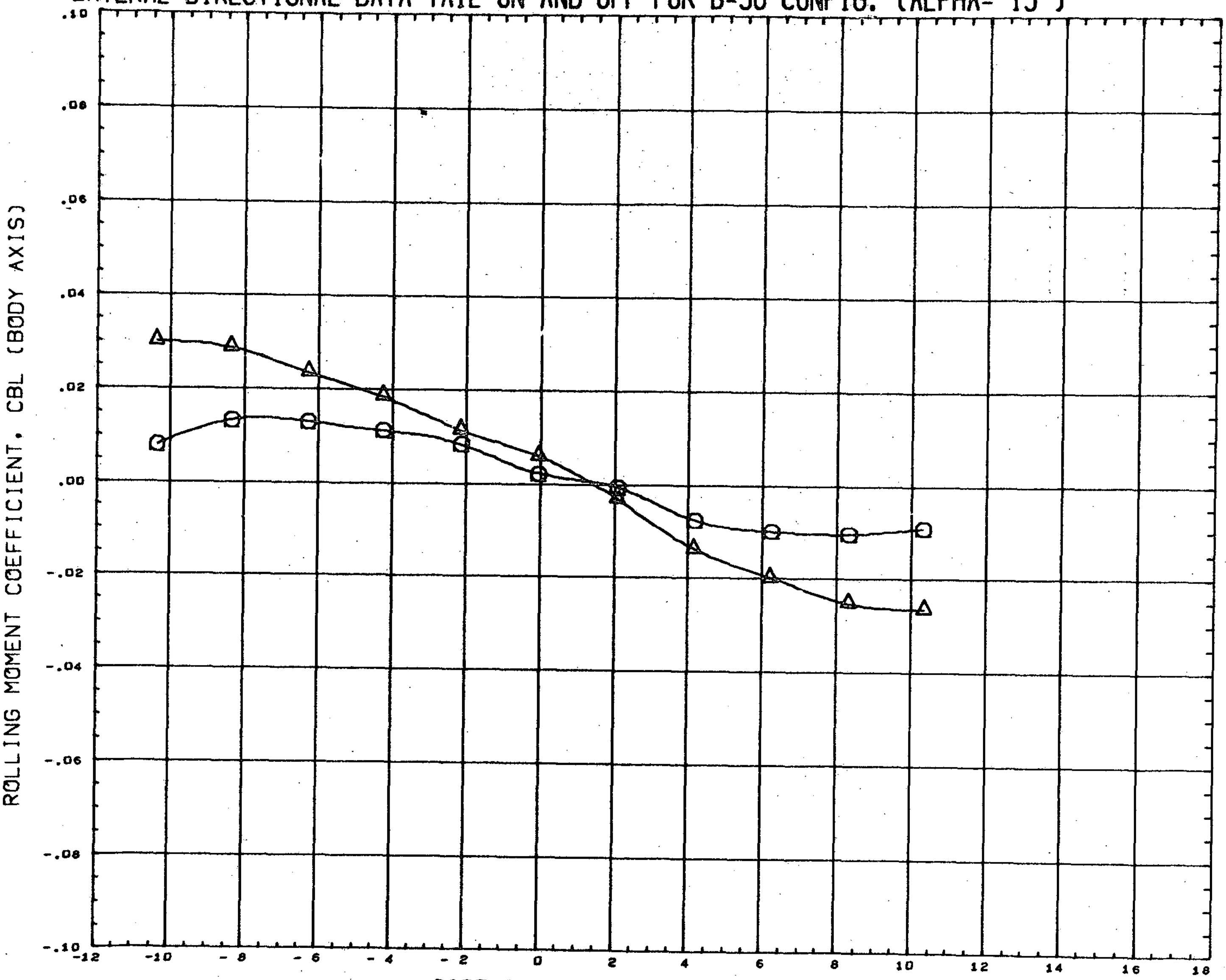
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A35OCC)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=DR=DF	15.000	0.000	0.000	0.000
(A35TCC)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=15 C=D R=D	15.000	0.000	0.000	0.000

MACH 4.959

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)



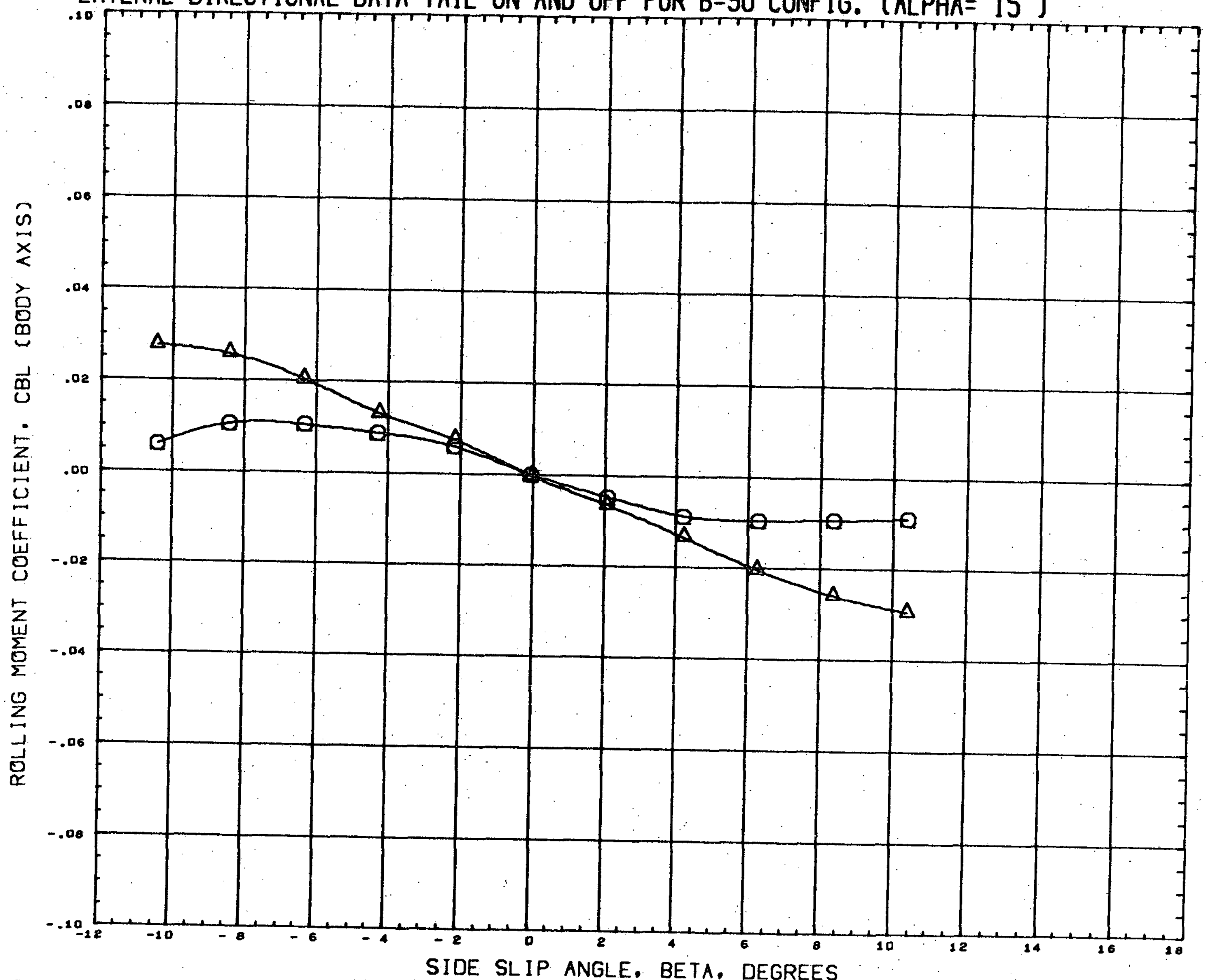
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A350CC)	O	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=DR=DF	15.000	0.000	0.000	0.000
(A35TCC)	Δ	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 0.992

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)



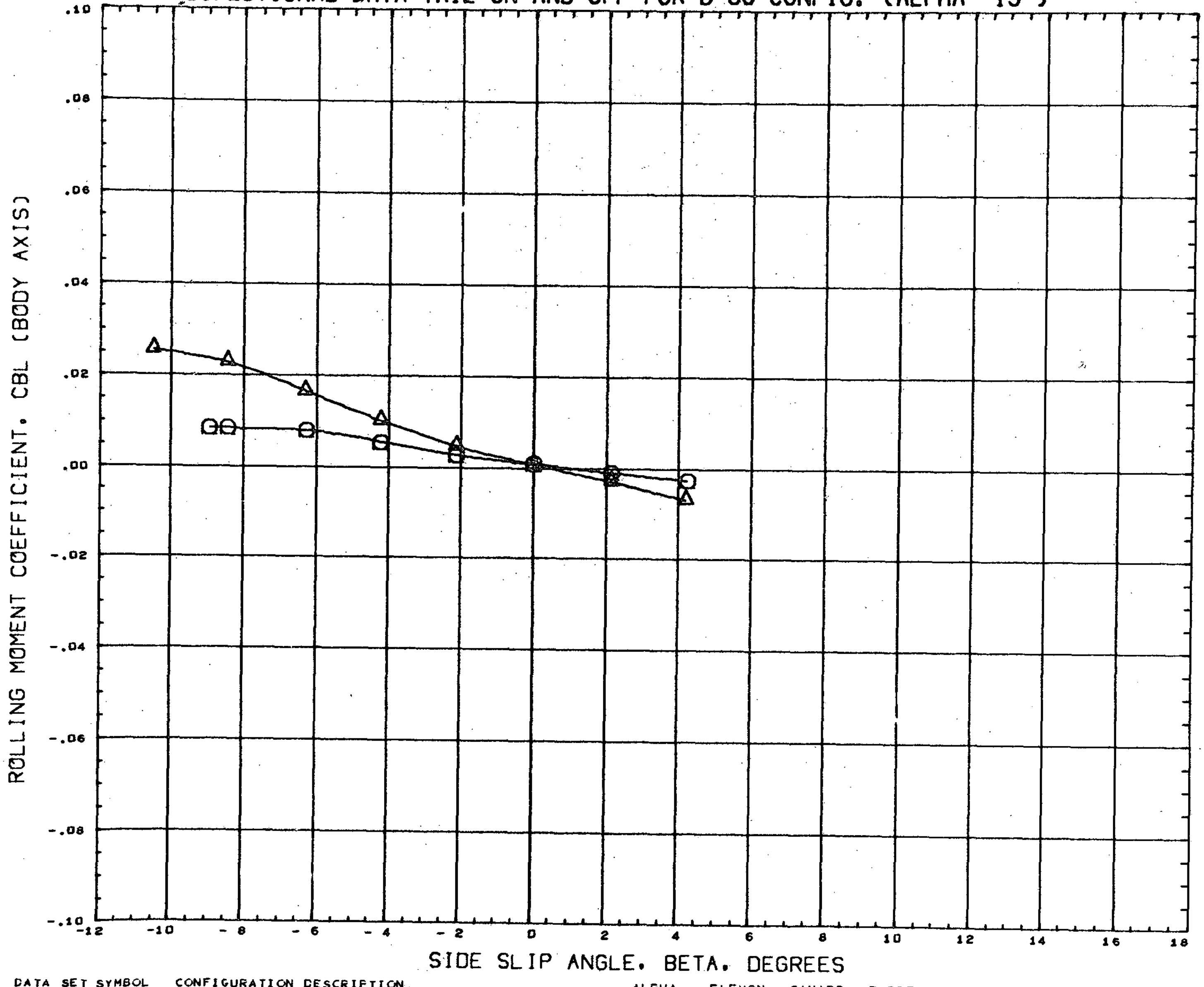
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A35OCC)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=OR=OF	15.000	0.000	0.000	0.000
(A35TCC)	△	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 1.192

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)



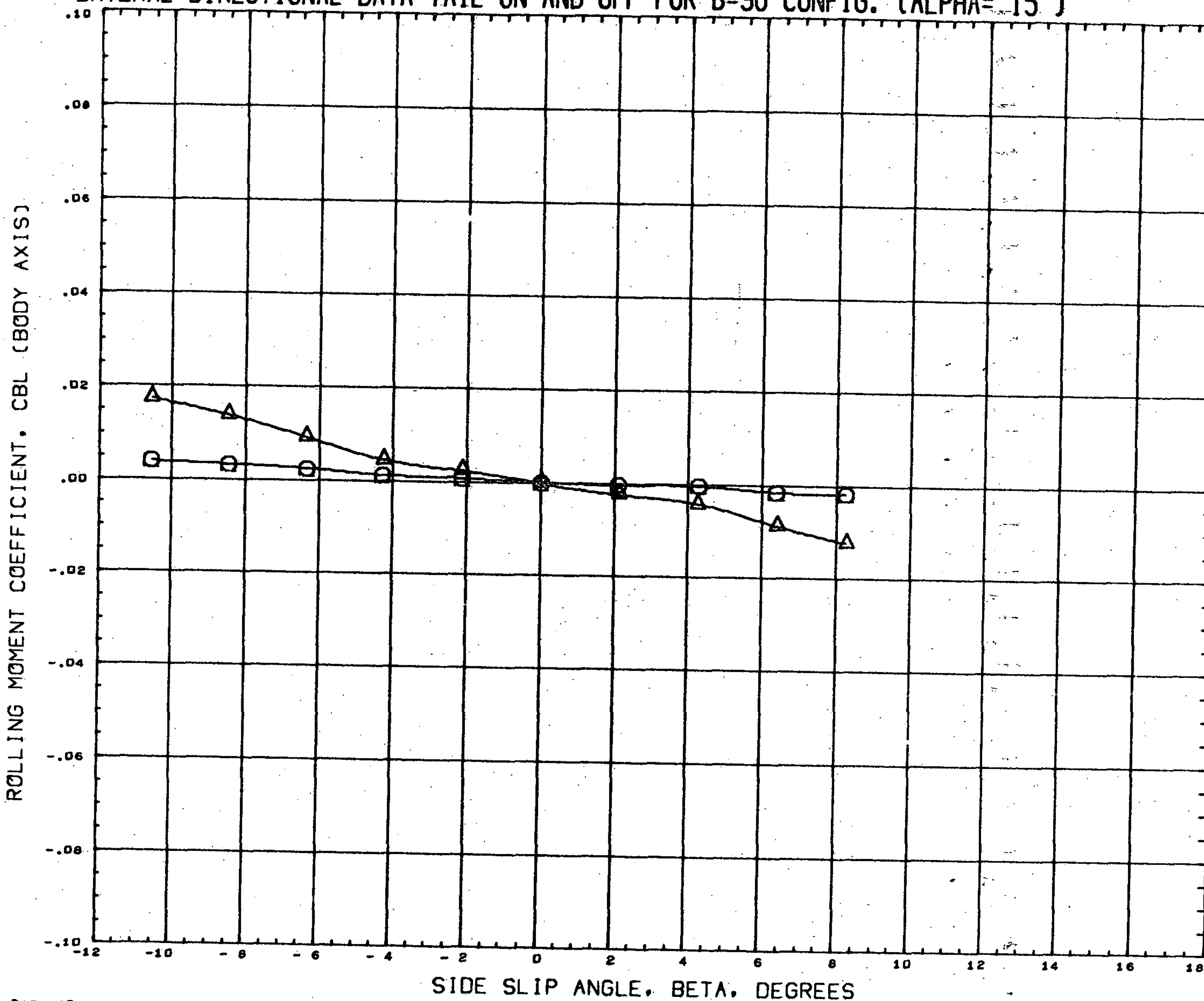
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A35OCC)	○	MSFC TWT-493 GD/C	B25W19C8	ALFHA=15 C=OR=OF	15.000	0.000	0.000	0.000
(A35TCC)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALFHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 1.469

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)



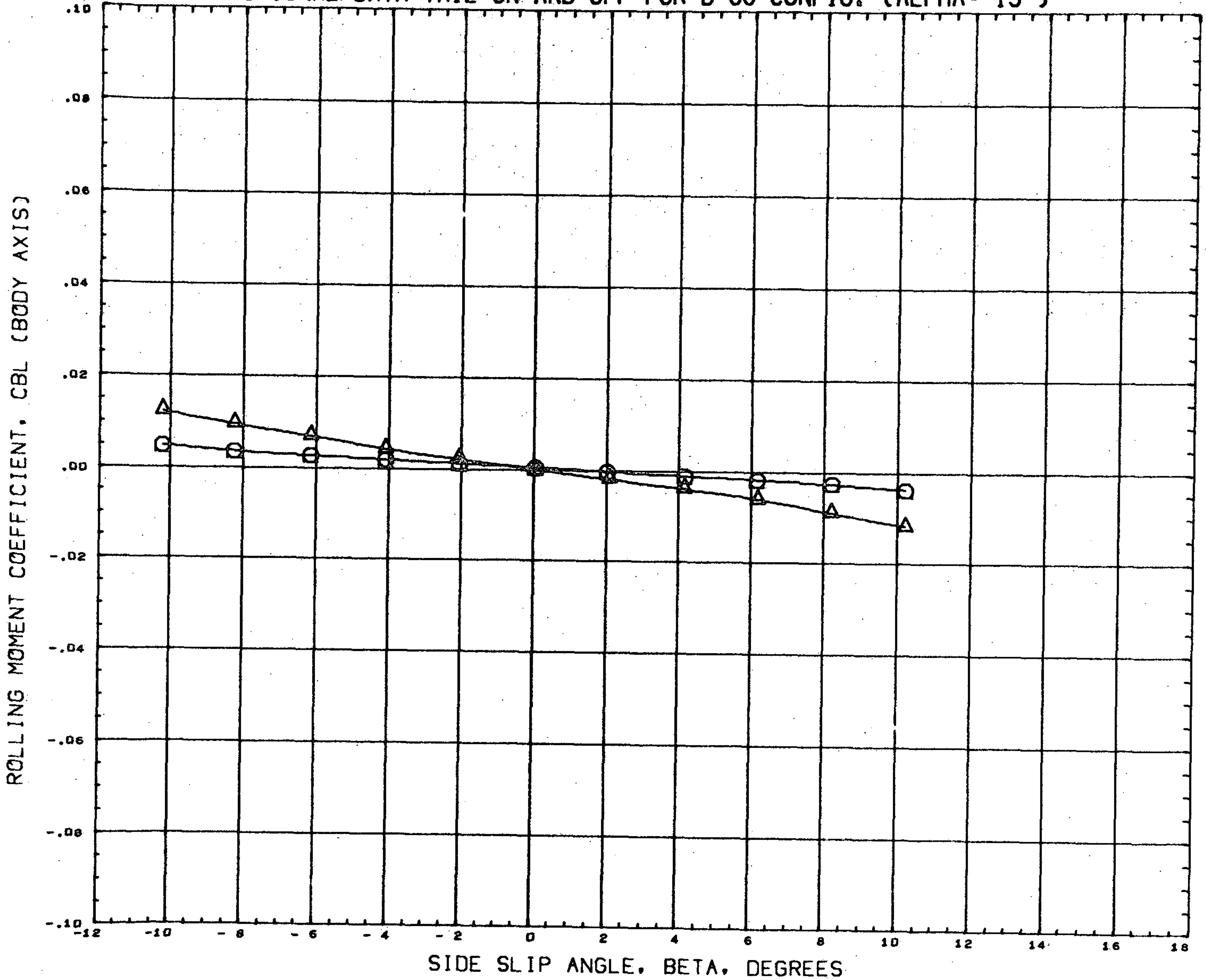
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	ELEVON	CANARD	RUDDER
(A35OCC)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=DR=OF	15.000	0.000	0.000	0.000
(A35TCC)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=15 C=D R=D	15.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.964

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)



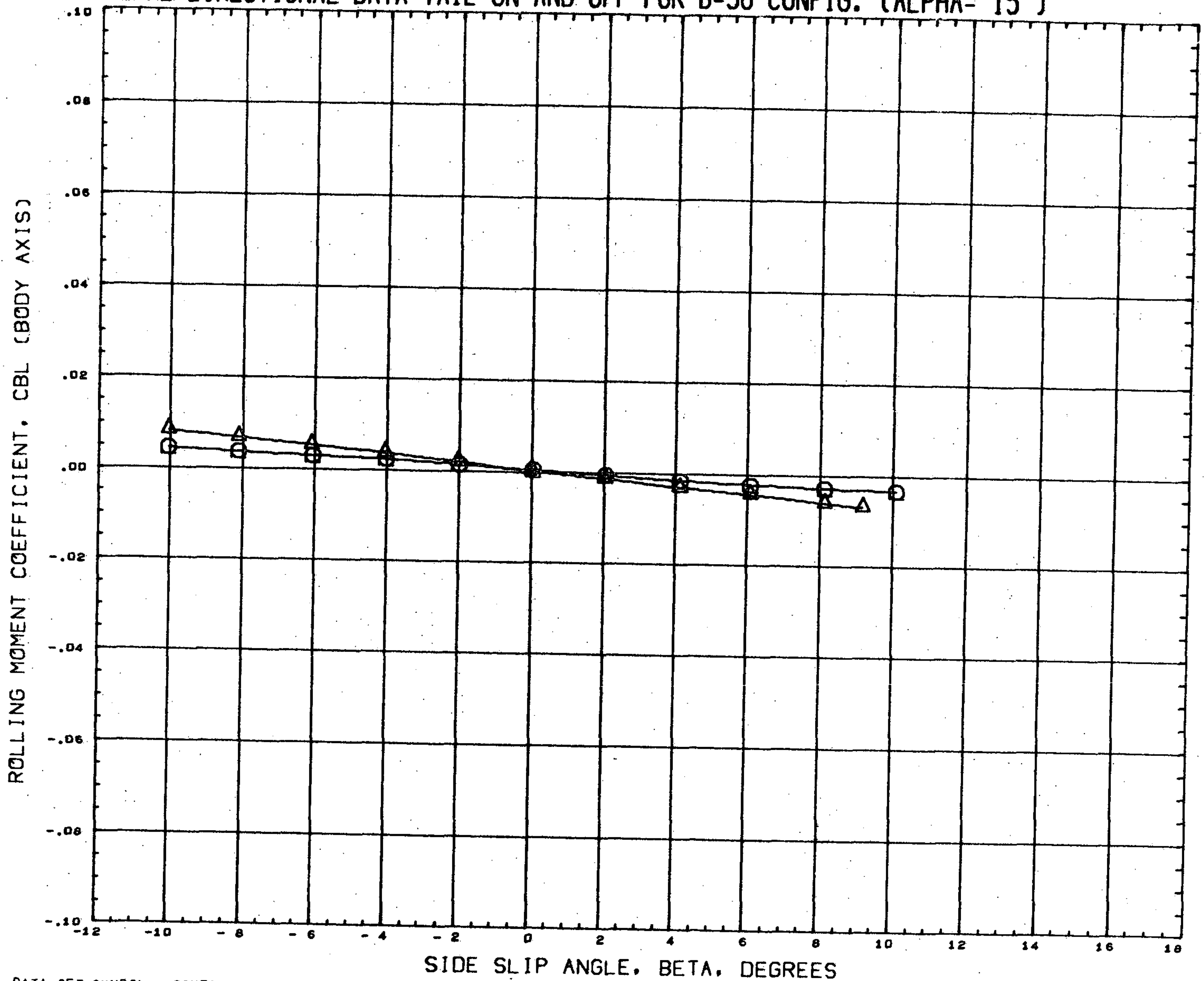
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A35OCC)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=OR=OF	15.000	0.000	0.000	0.000
(A35TCC)	△	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA TAIL ON AND OFF FOR B-9U CONFIG. (ALPHA= 15)



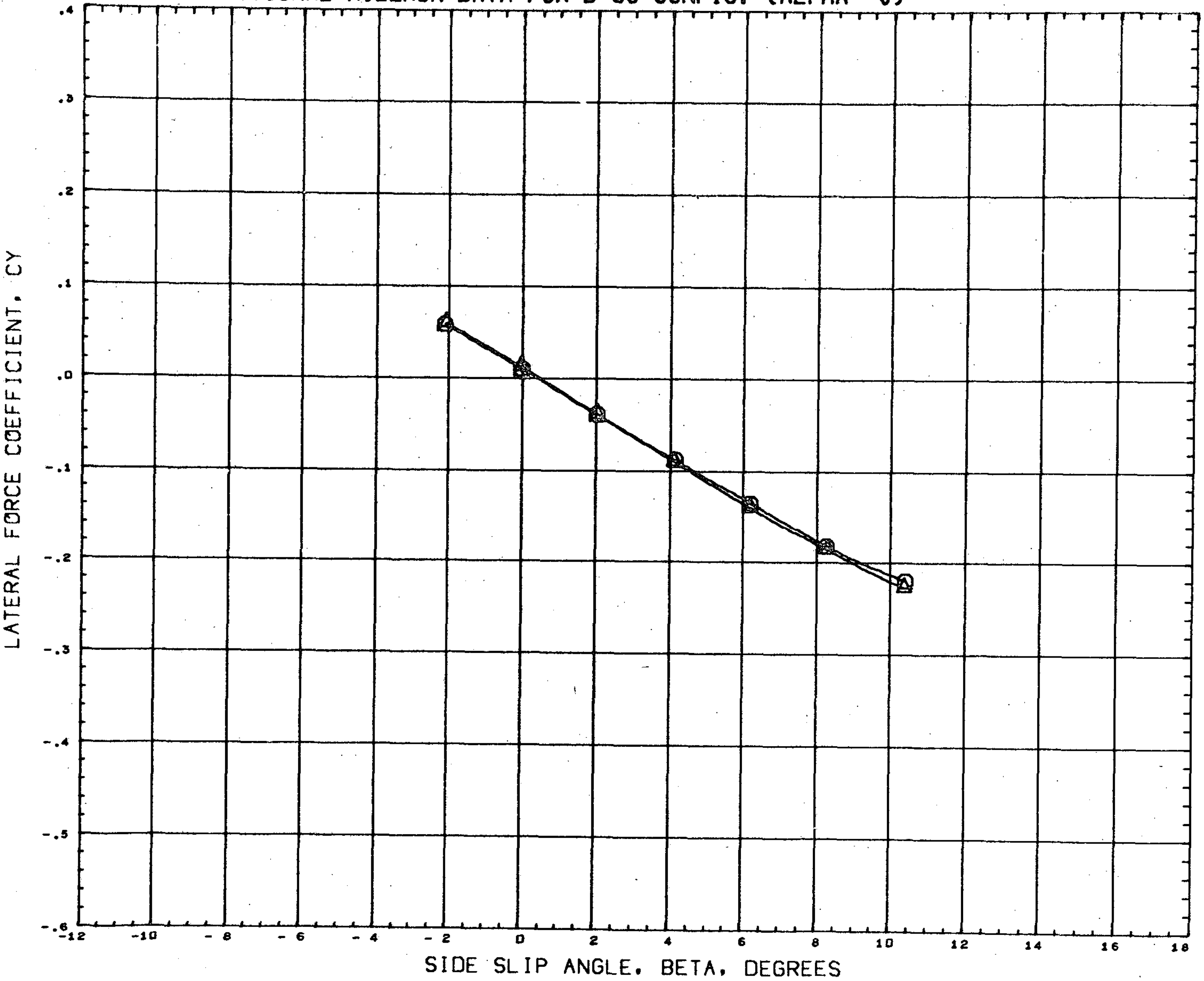
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	ELEVON	CANARD	RUDDER
(A350CC)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000	0.000	0.000	0.000
(A35TCC)	△	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=15 C=0 R=0	15.000	0.000	0.000	0.000

MACH 4.959

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 0)



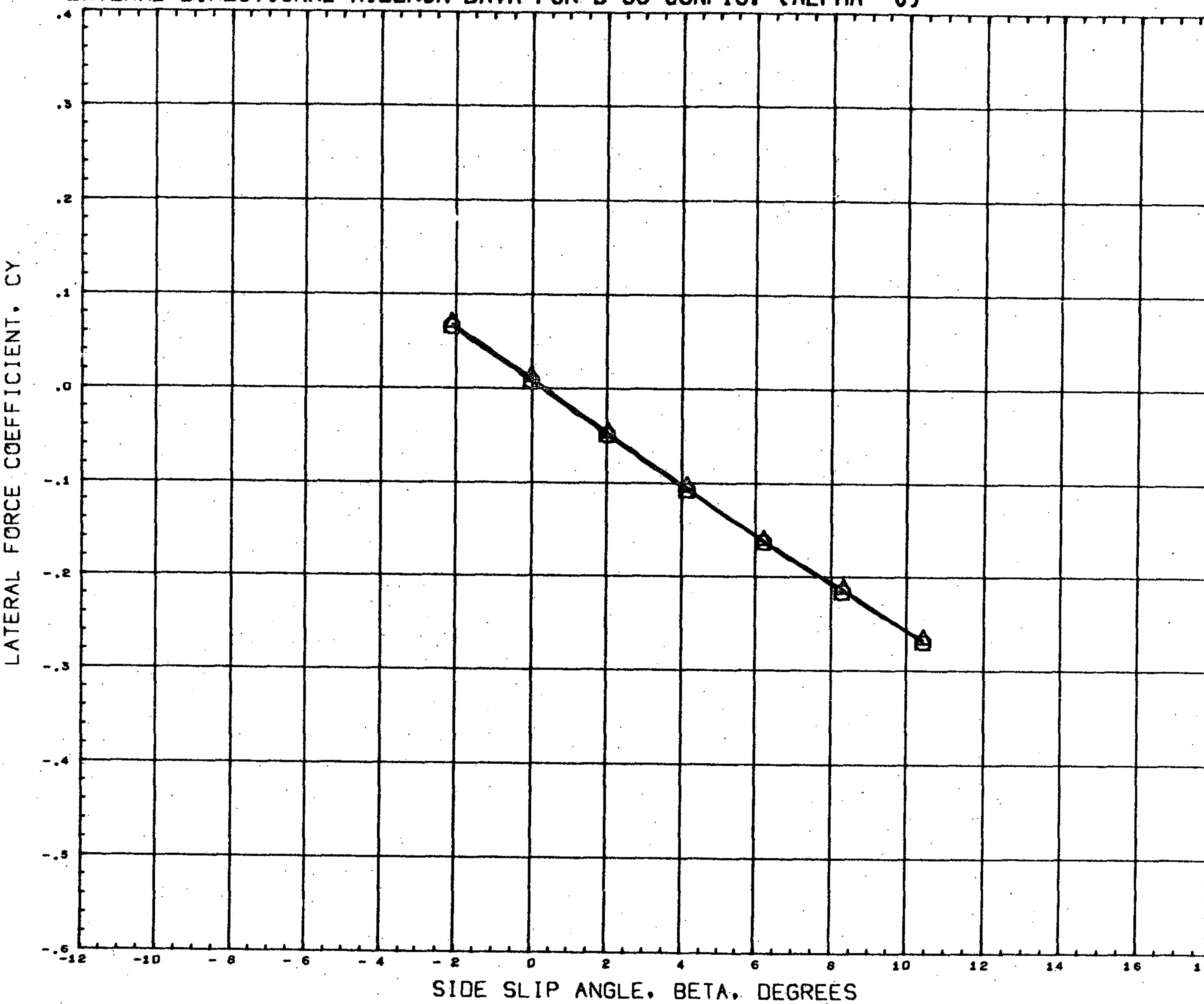
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 A=10	0.000	10.000	0.000	0.000

MACH 0.903

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 0)



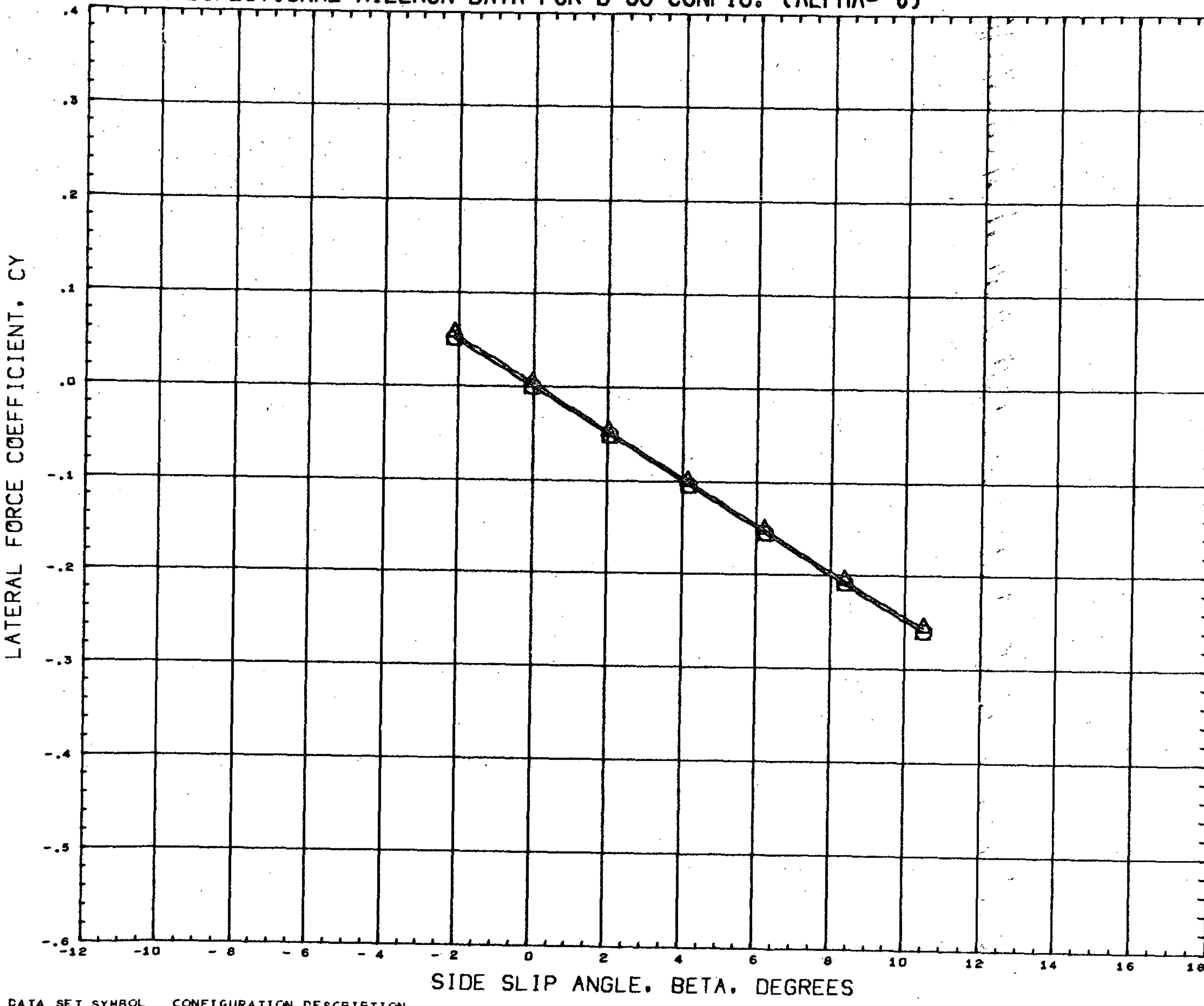
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 A=10	0.000	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.996

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 0)

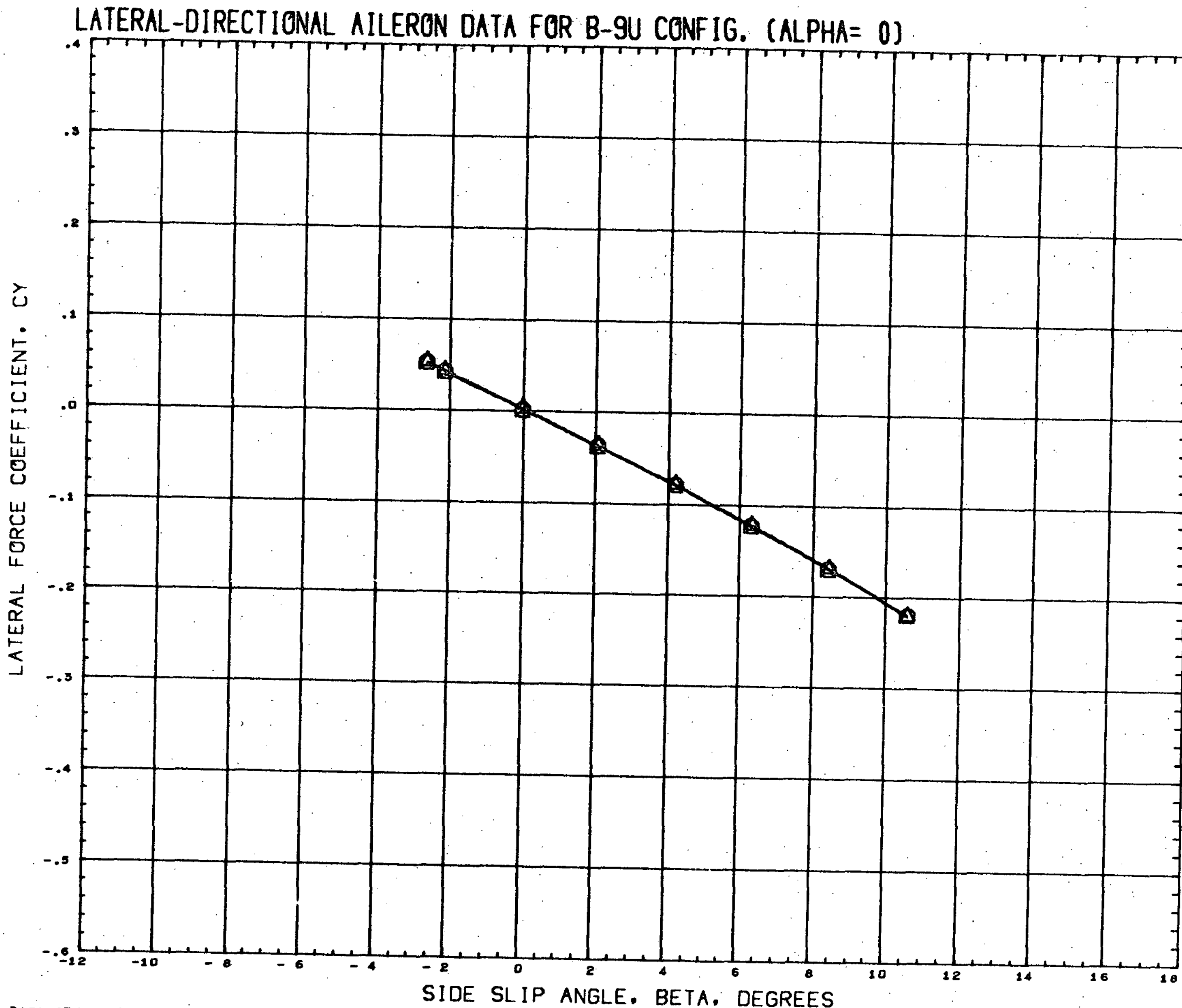


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C	B25W19C8V10	ALFHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C	B25W19CBV10	ALFHA=0 C=0 A=10	0.000	10.000	0.000	0.000

MACH 1.197

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	



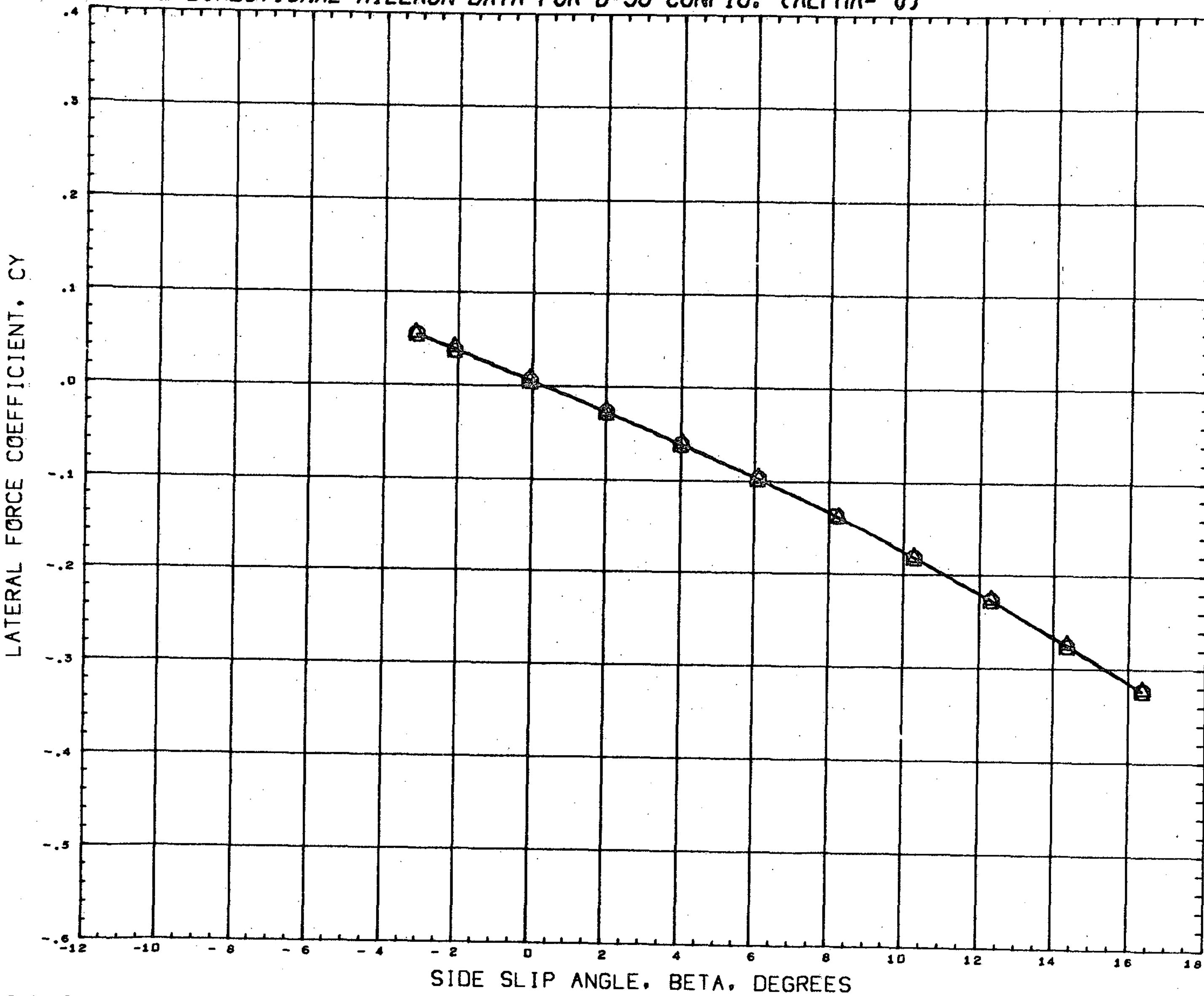
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 A=10	0.000	10.000	0.000	0.000

MACH 1.950

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 0)

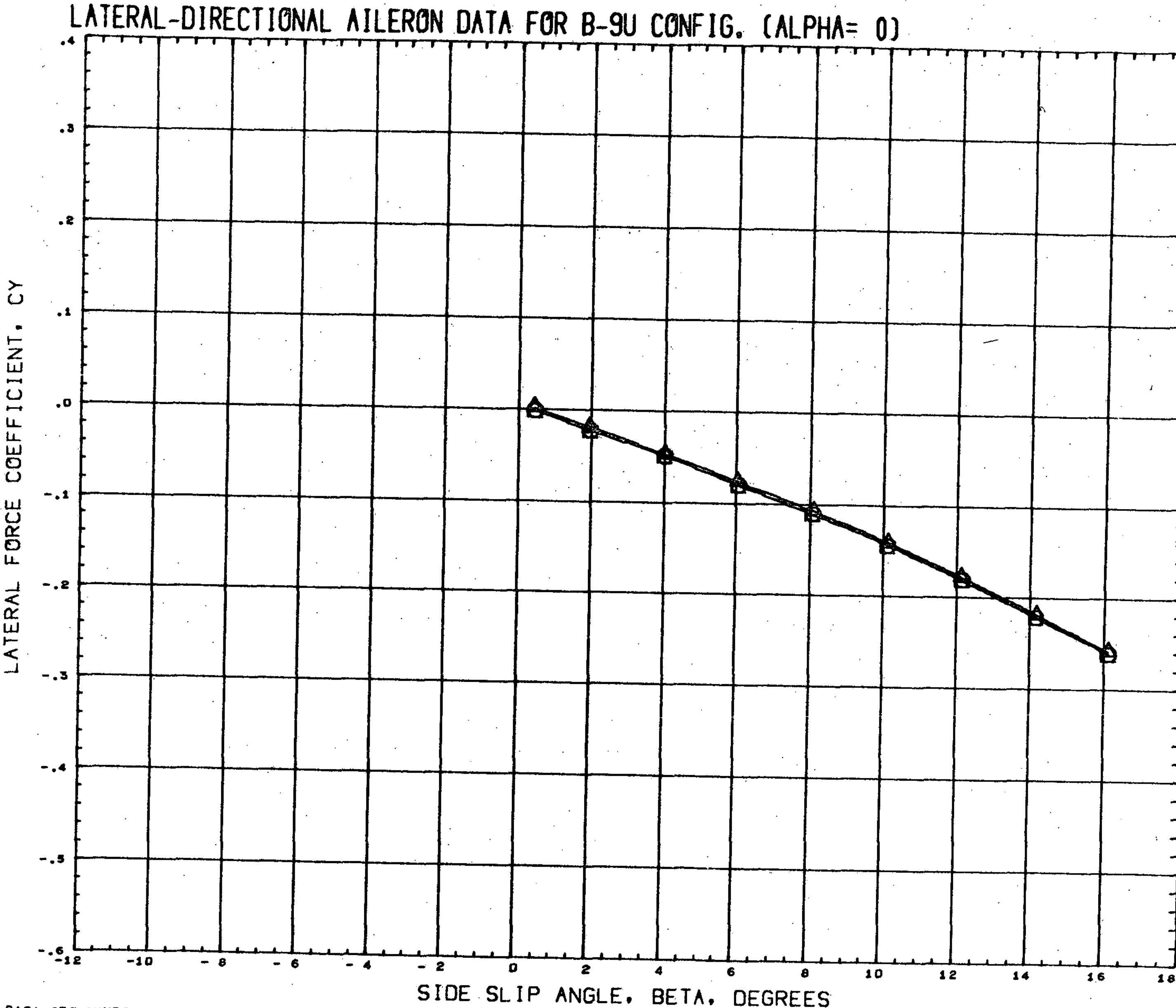


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 A=10	0.000	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990



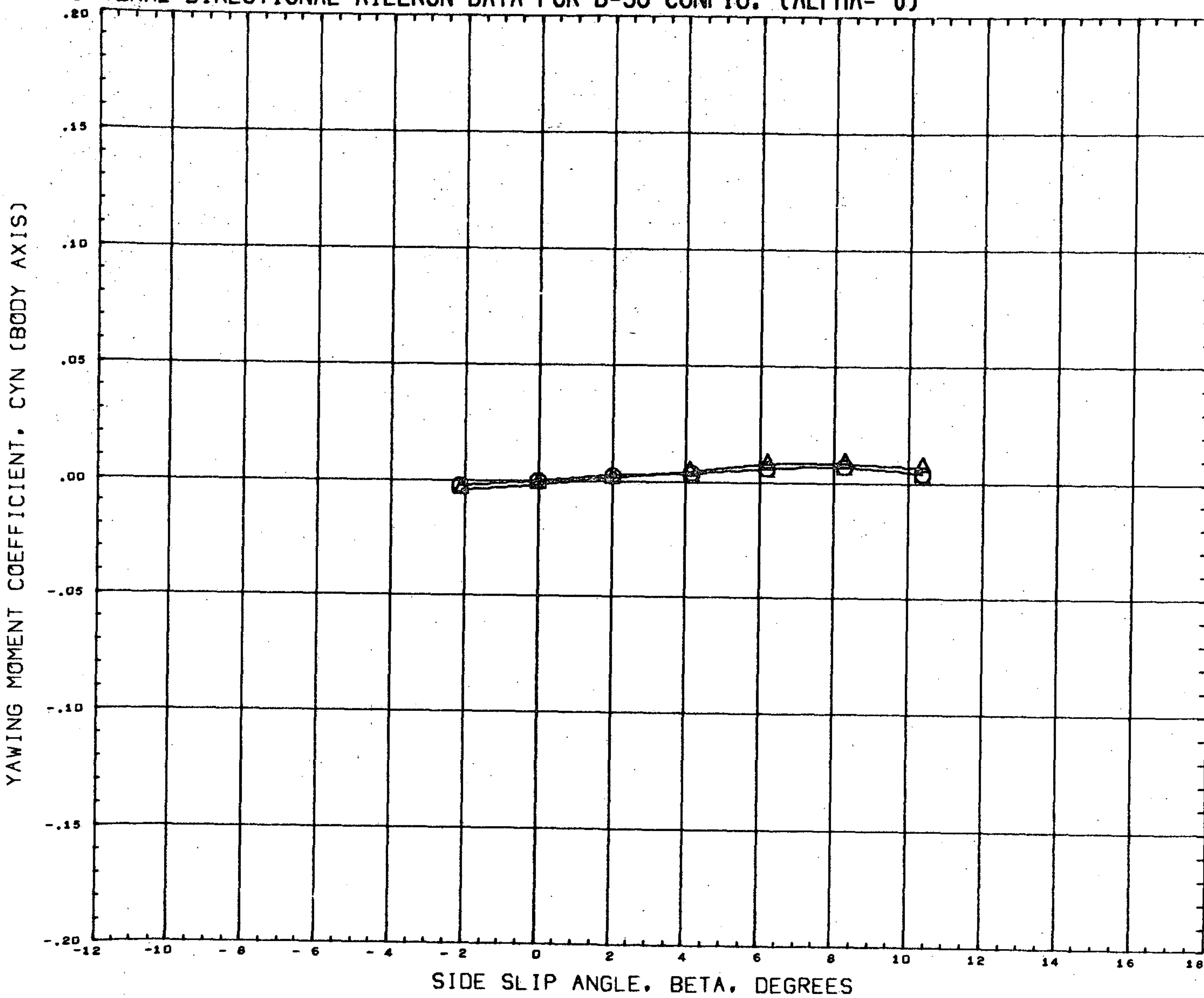
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=0 C=0 A=10	0.000	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

MACH 4.959

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 0)



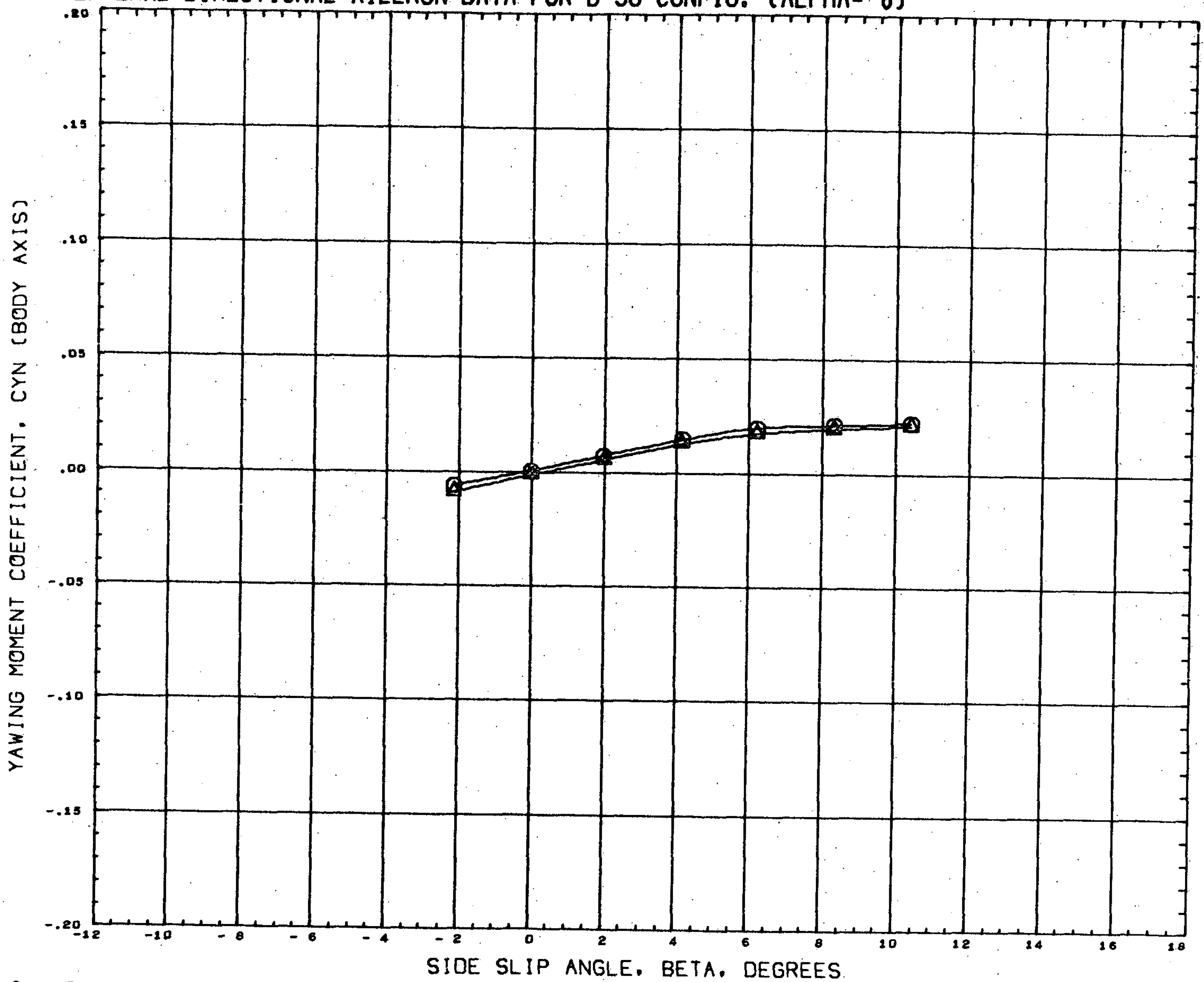
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 A=10	0.000	10.000	0.000	0.000

MACH 0.903

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 0)

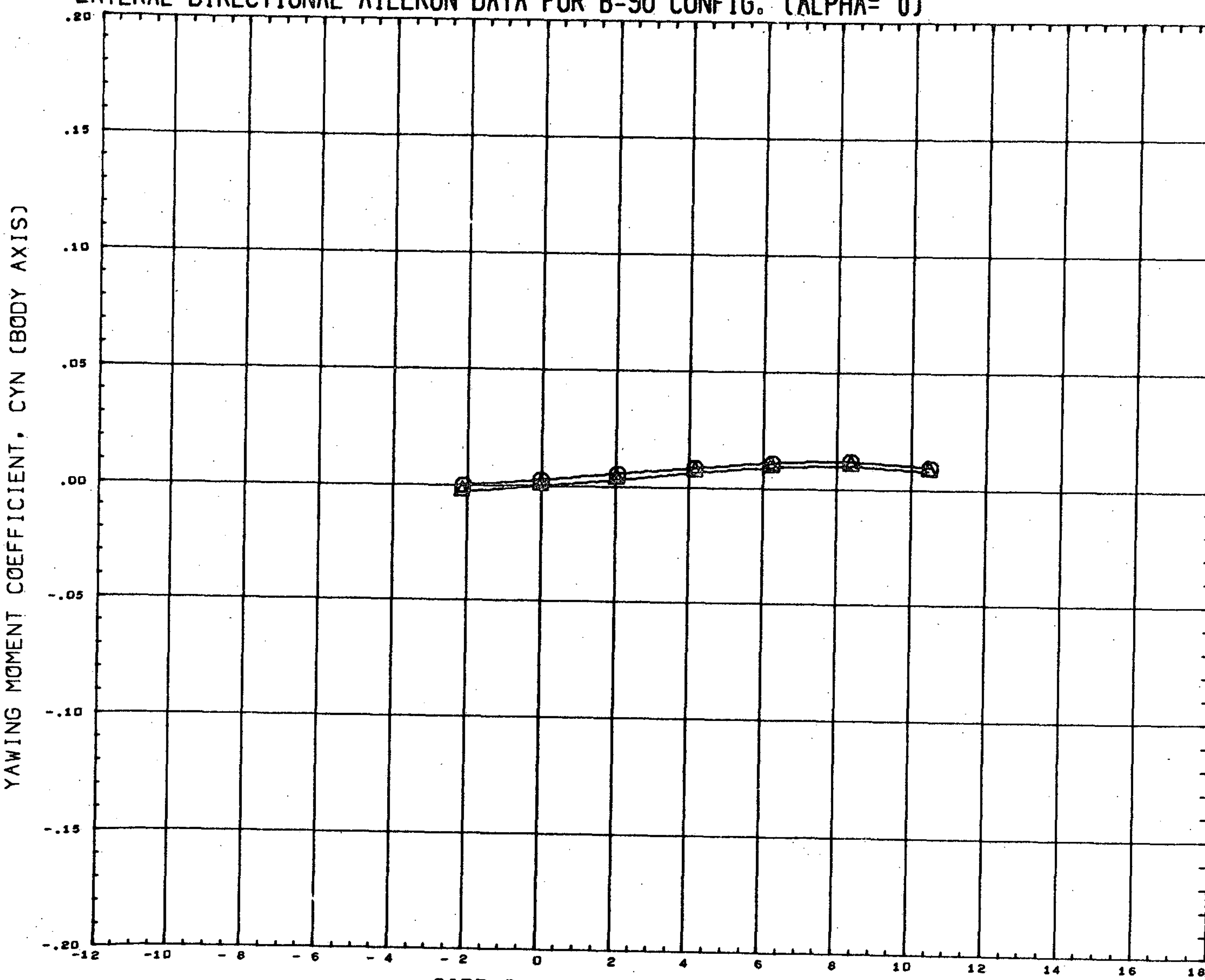


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 A=10	0.000	10.000	0.000	0.000

MACH 0.996

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 0)

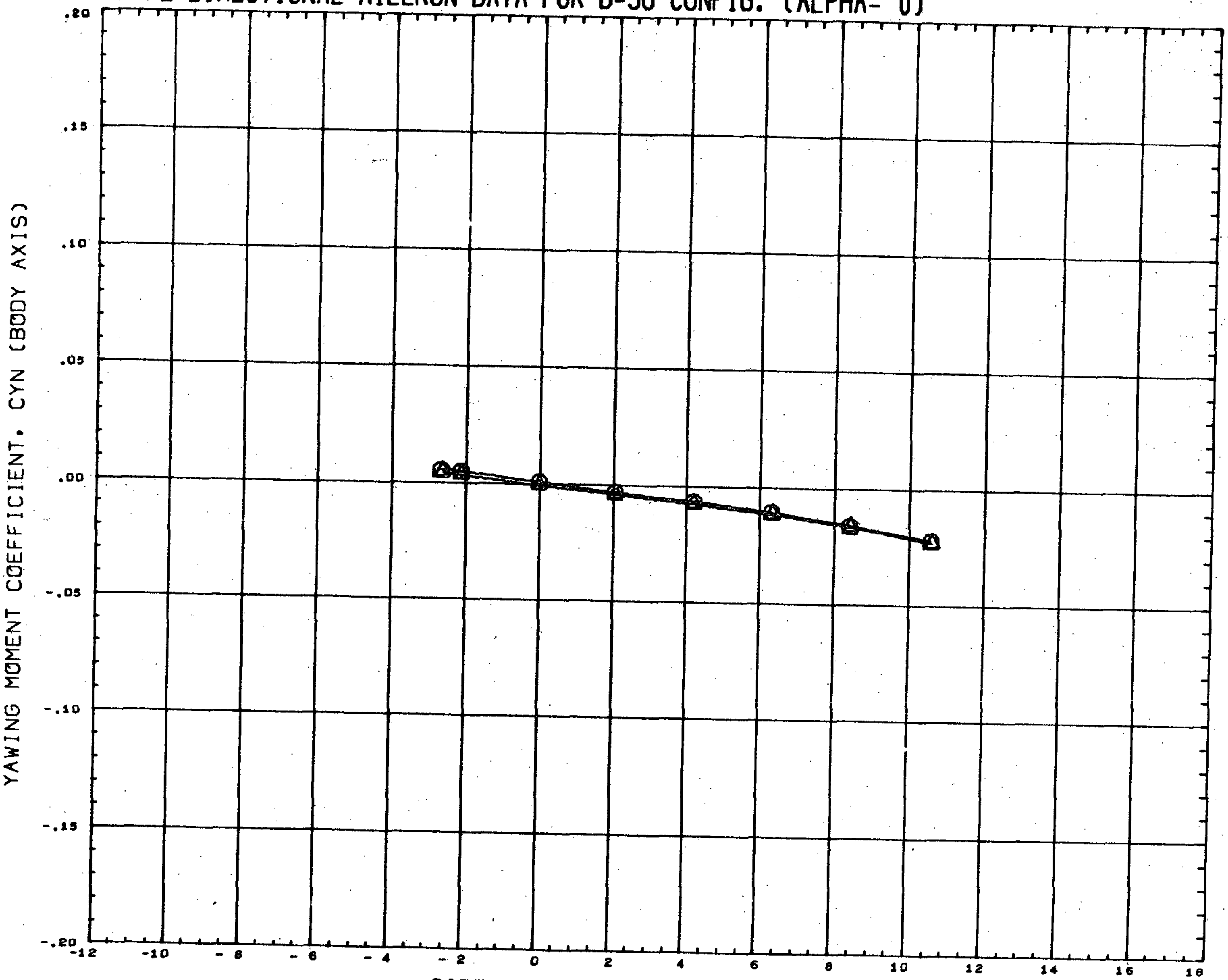


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALFHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALFHA=0 C=0 A=10	0.000	10.000	0.000	0.000

MACH 1.197

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 0)



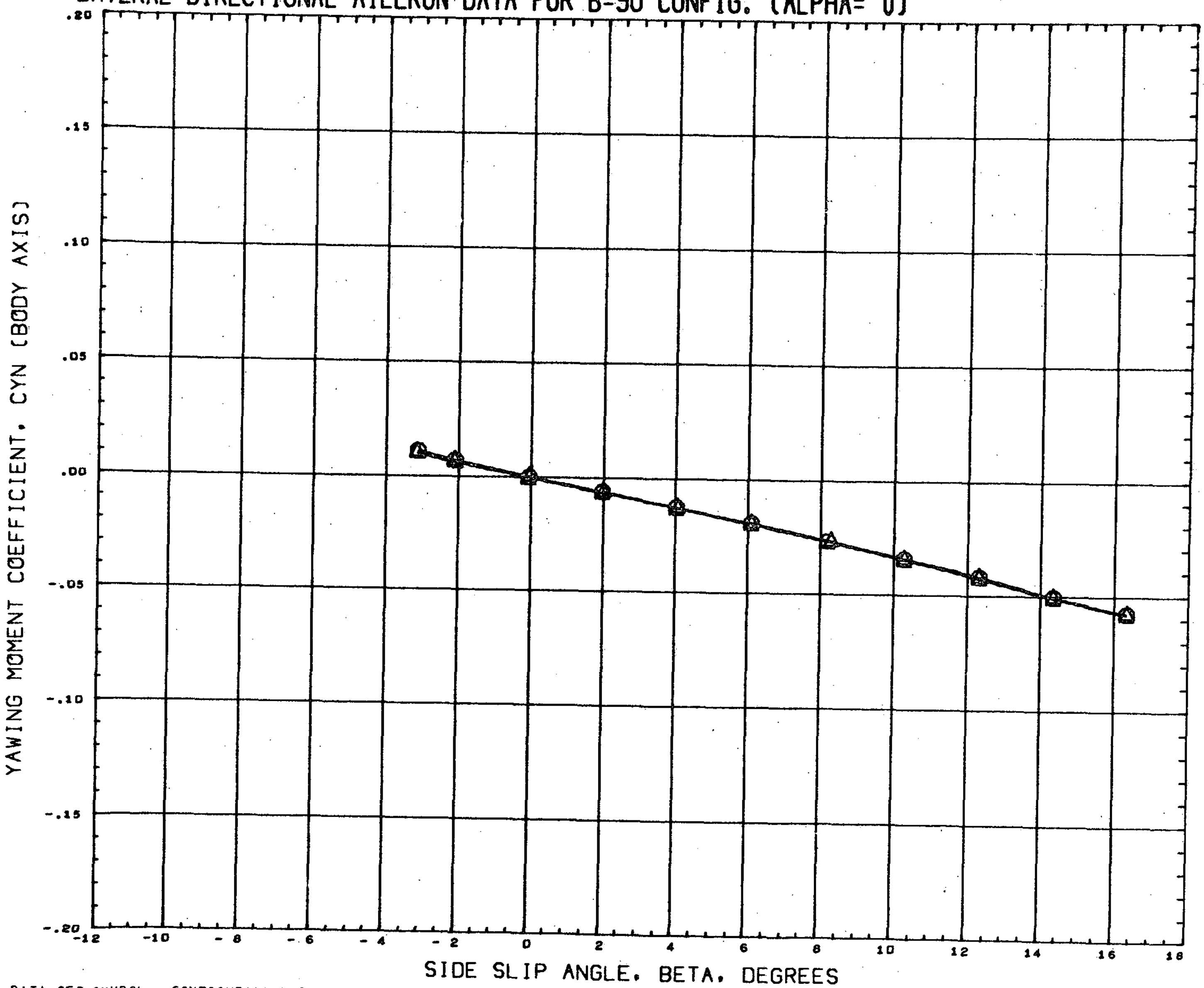
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 A=10	0.000	10.000	0.000	0.000

MACH 1.950

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 0)



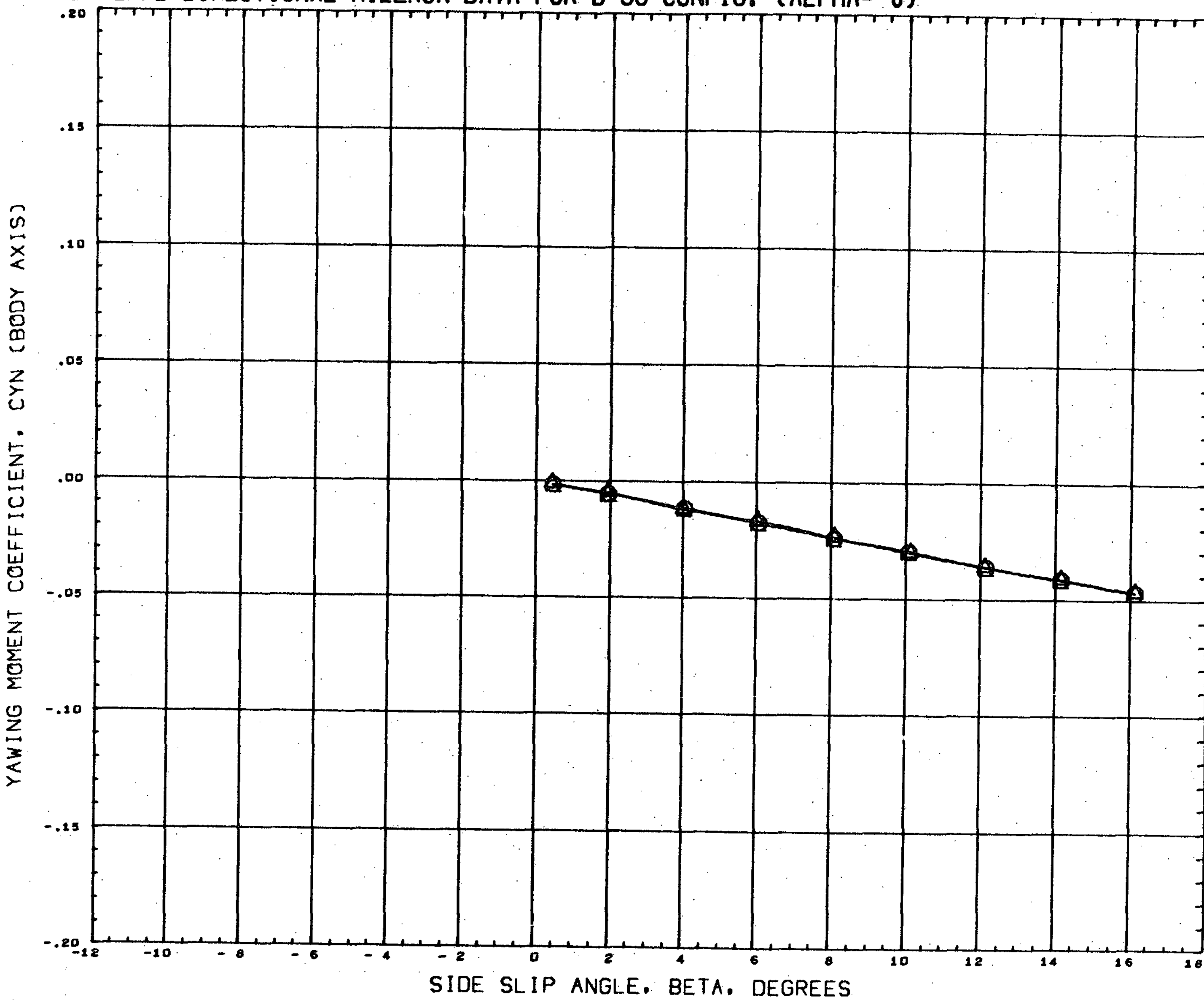
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 A=10	0.000	10.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 0)



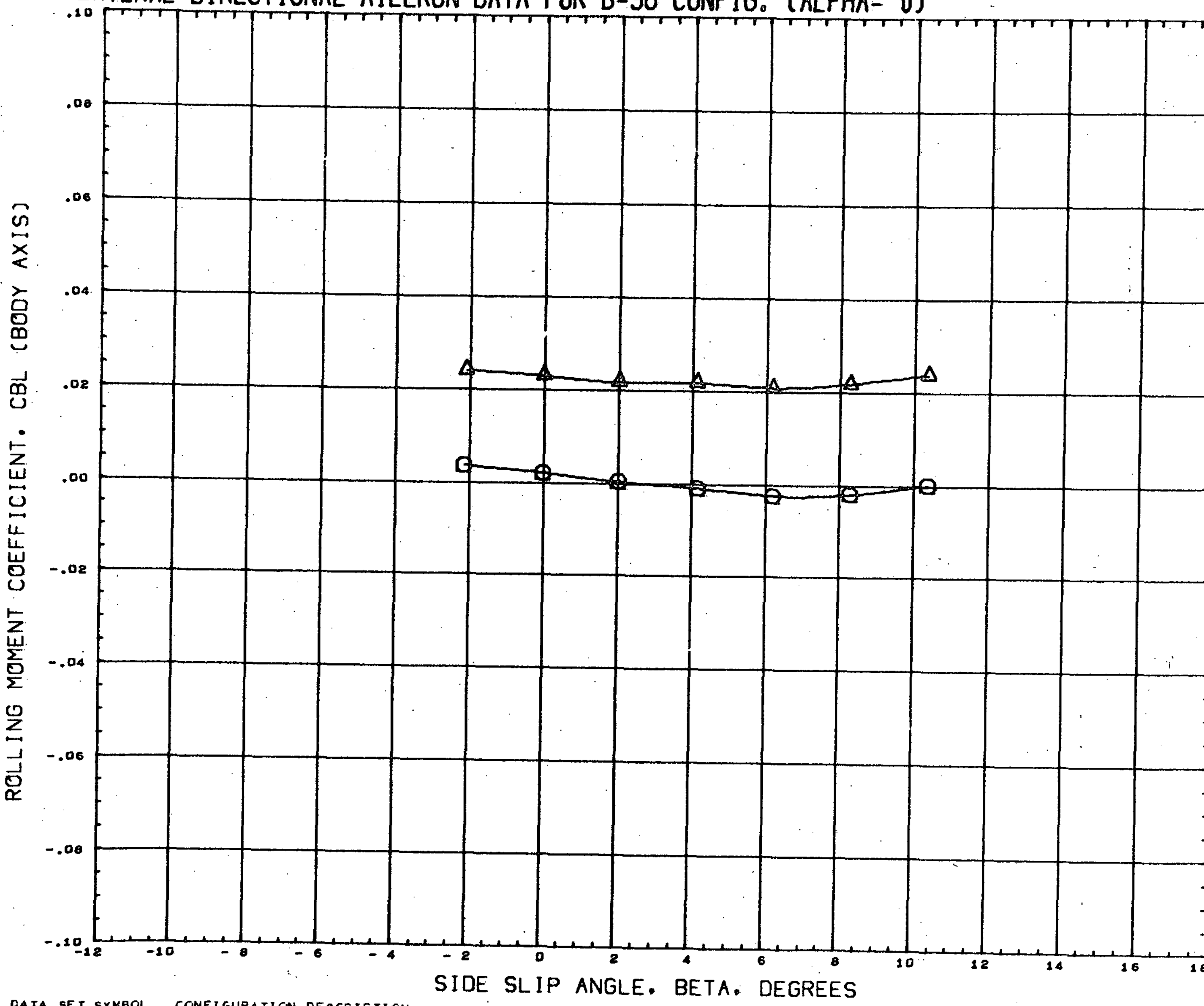
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	O	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	Δ	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 A=10	0.000	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.959

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 0)



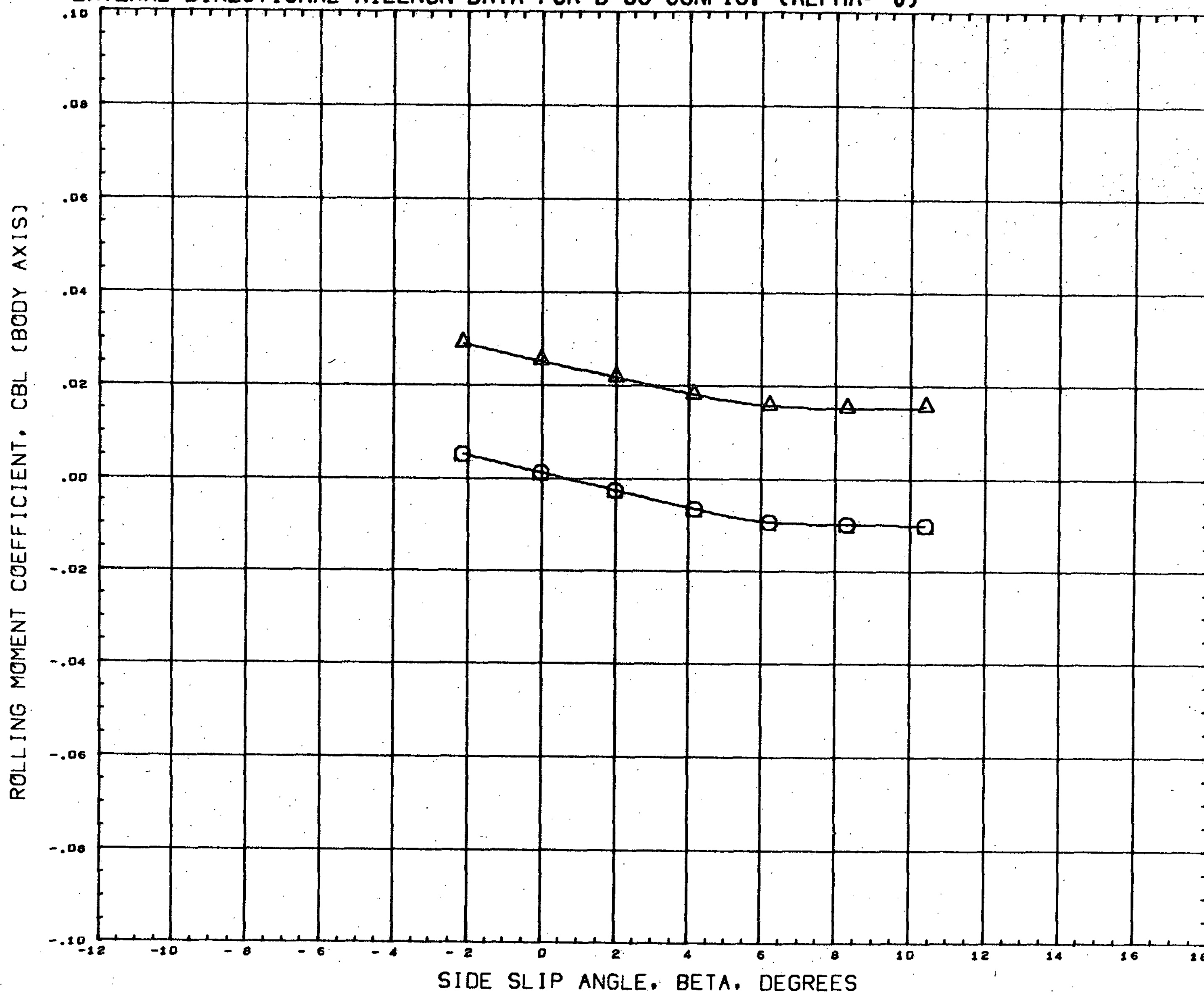
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 A=10	0.000	10.000	0.000	0.000

MACH 0.903

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 0)



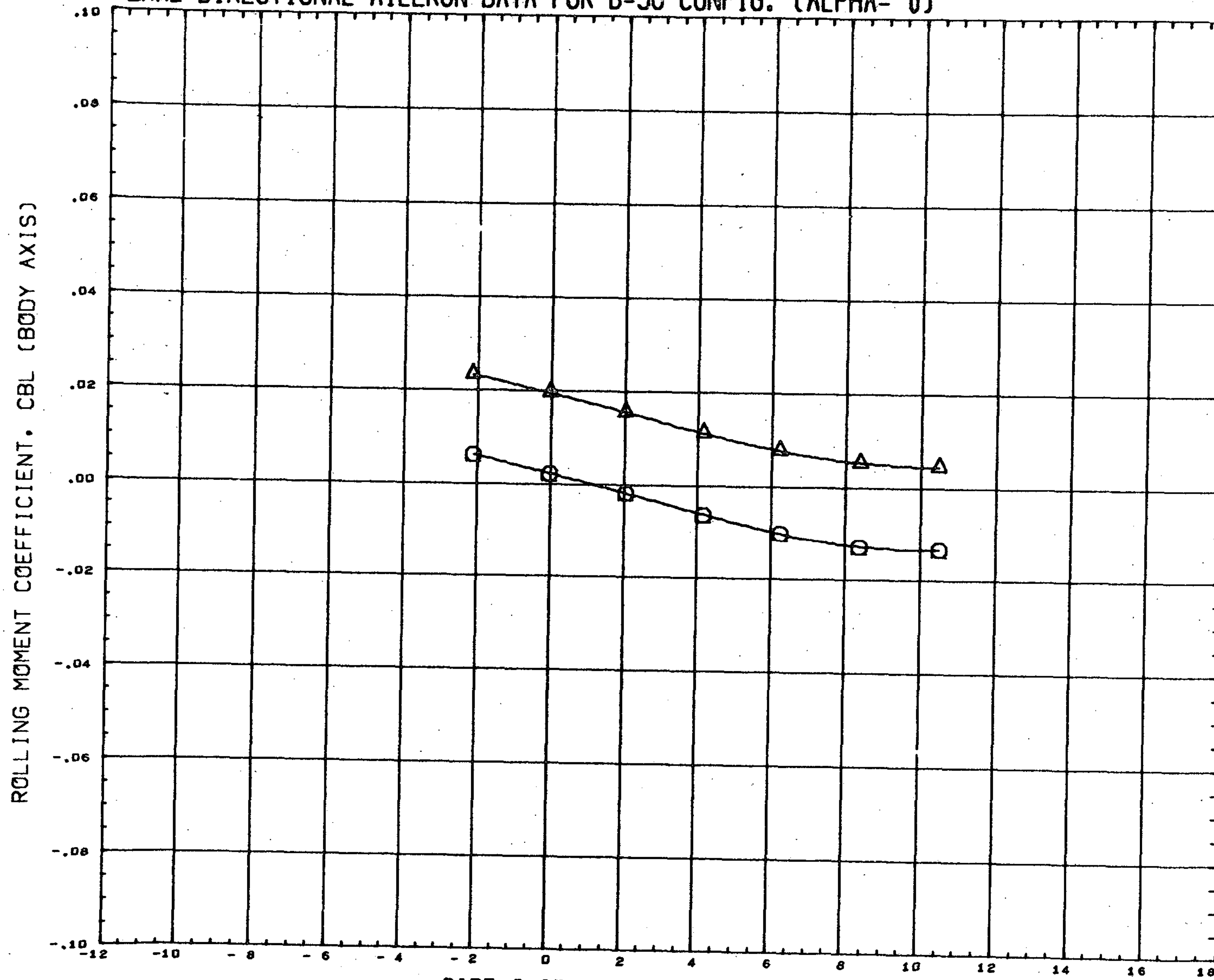
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 A=10	0.000	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.996

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 0)



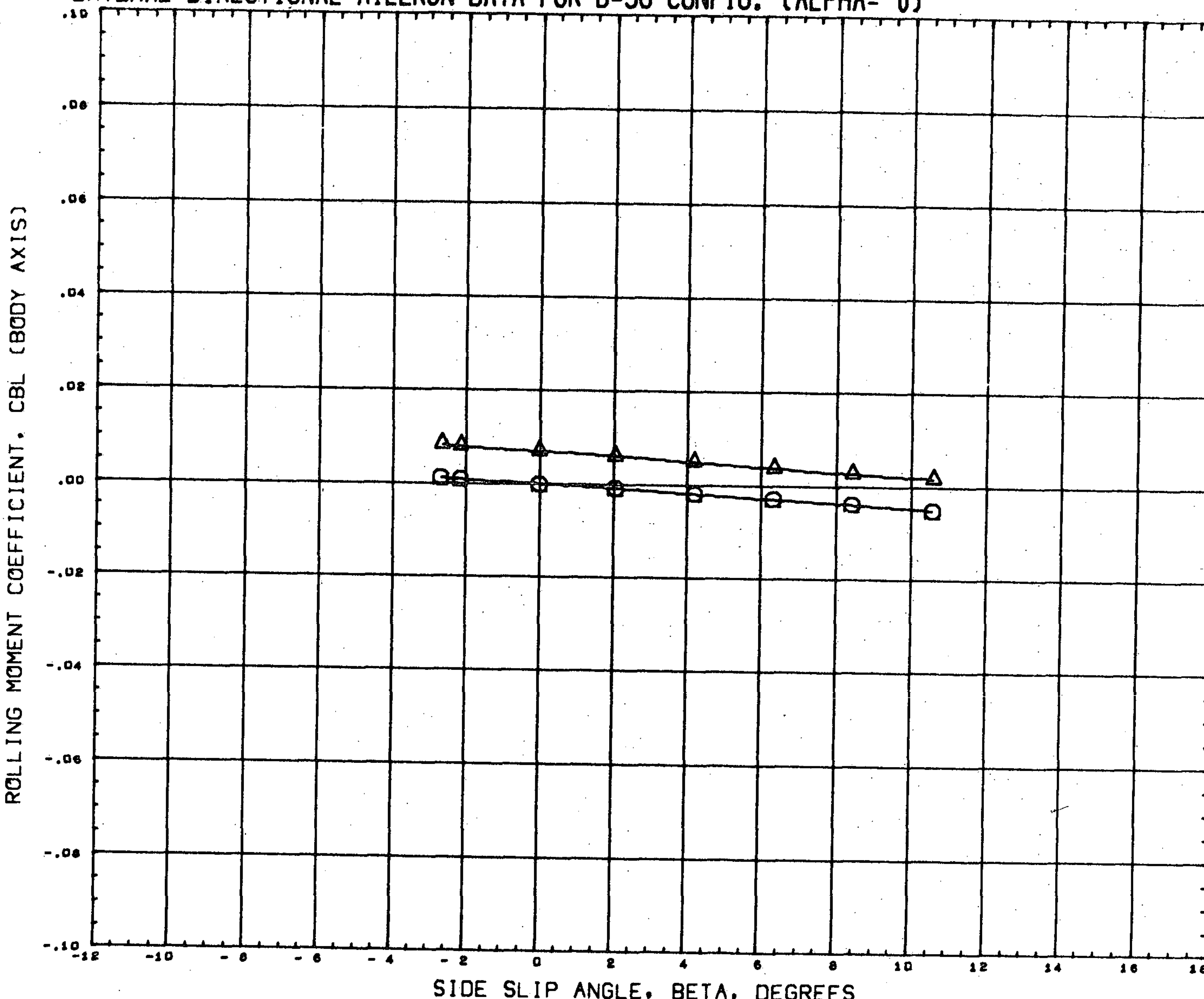
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C	B25W19C8V10	ALPHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C	B25W19CBV10	ALPHA=0 C=0 A=10	0.000	10.000	0.000	0.000

MACH 1.197

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 0)

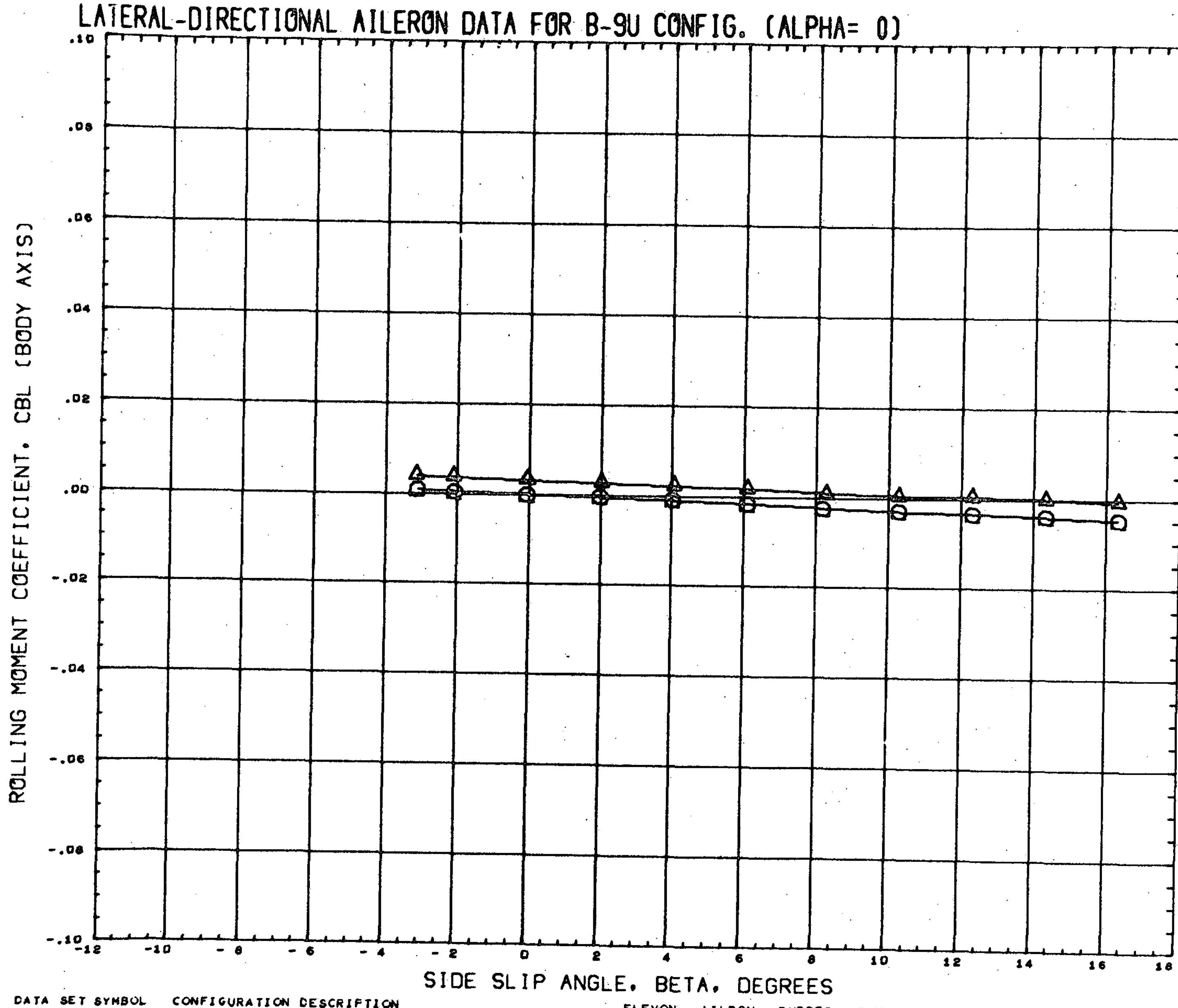


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=0 C=0 A=10	0.000	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.950



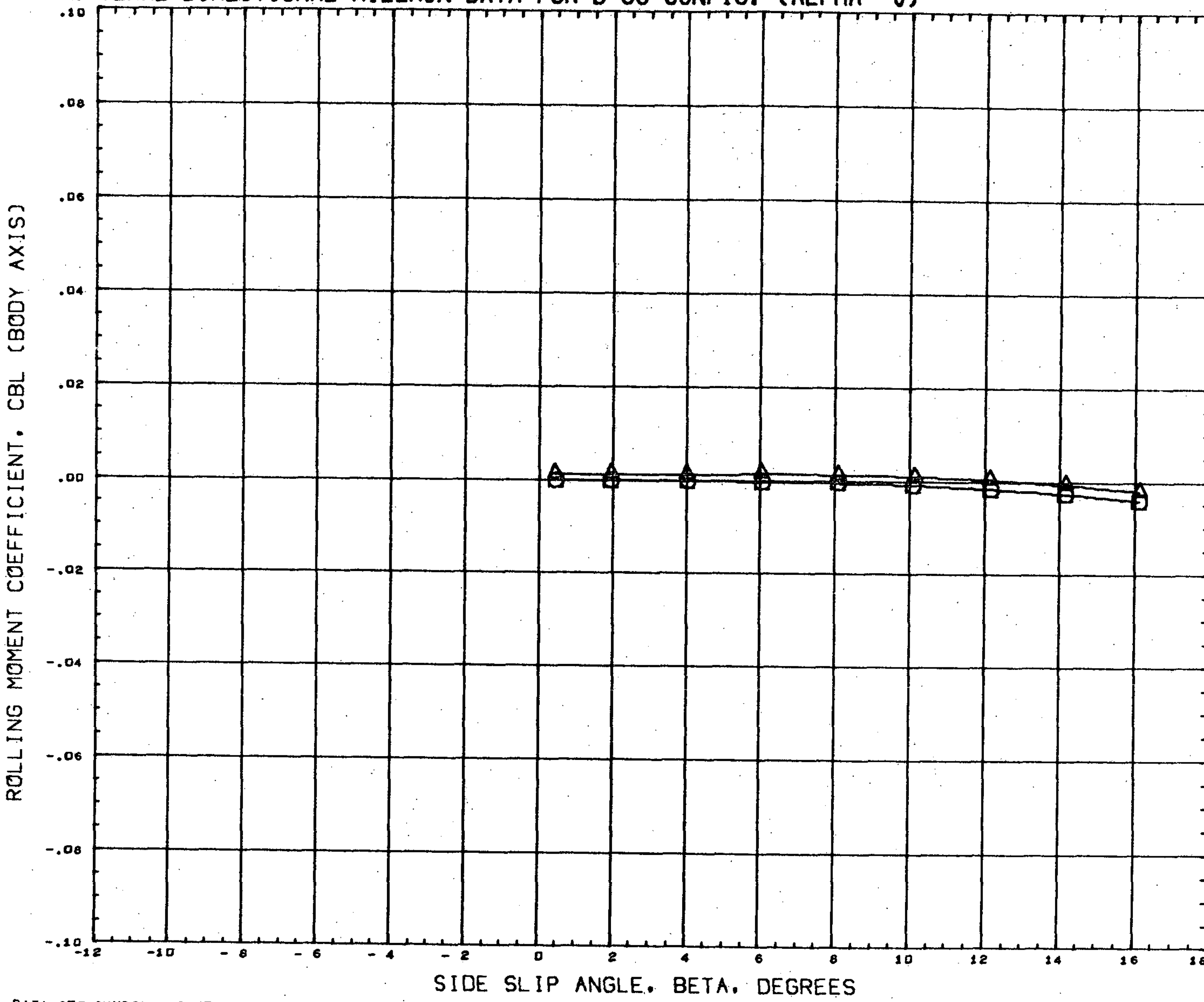
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C B25W19C8V10	ALPHA=0 C=0 A=10	0.000	10.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 0)



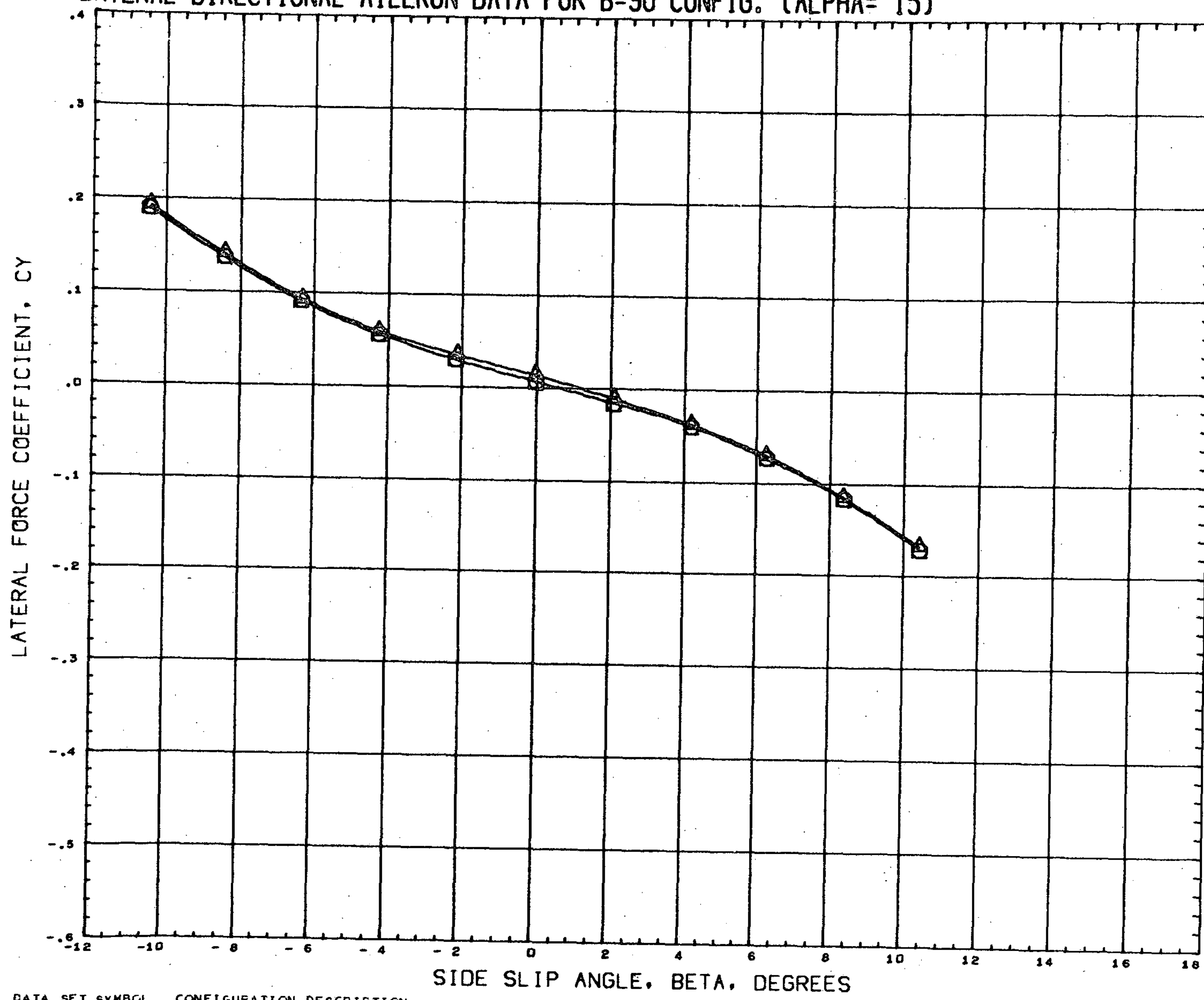
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(C35TDA)	○	MSFC TWT-493 GD/C B25W19C8V10 ALFHA=0 C=0 R=0	0.000		0.000	0.000
(A35ADA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALFHA=0 C=0 A=10	0.000	10.000	0.000	0.000

MACH 4.959

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 15)



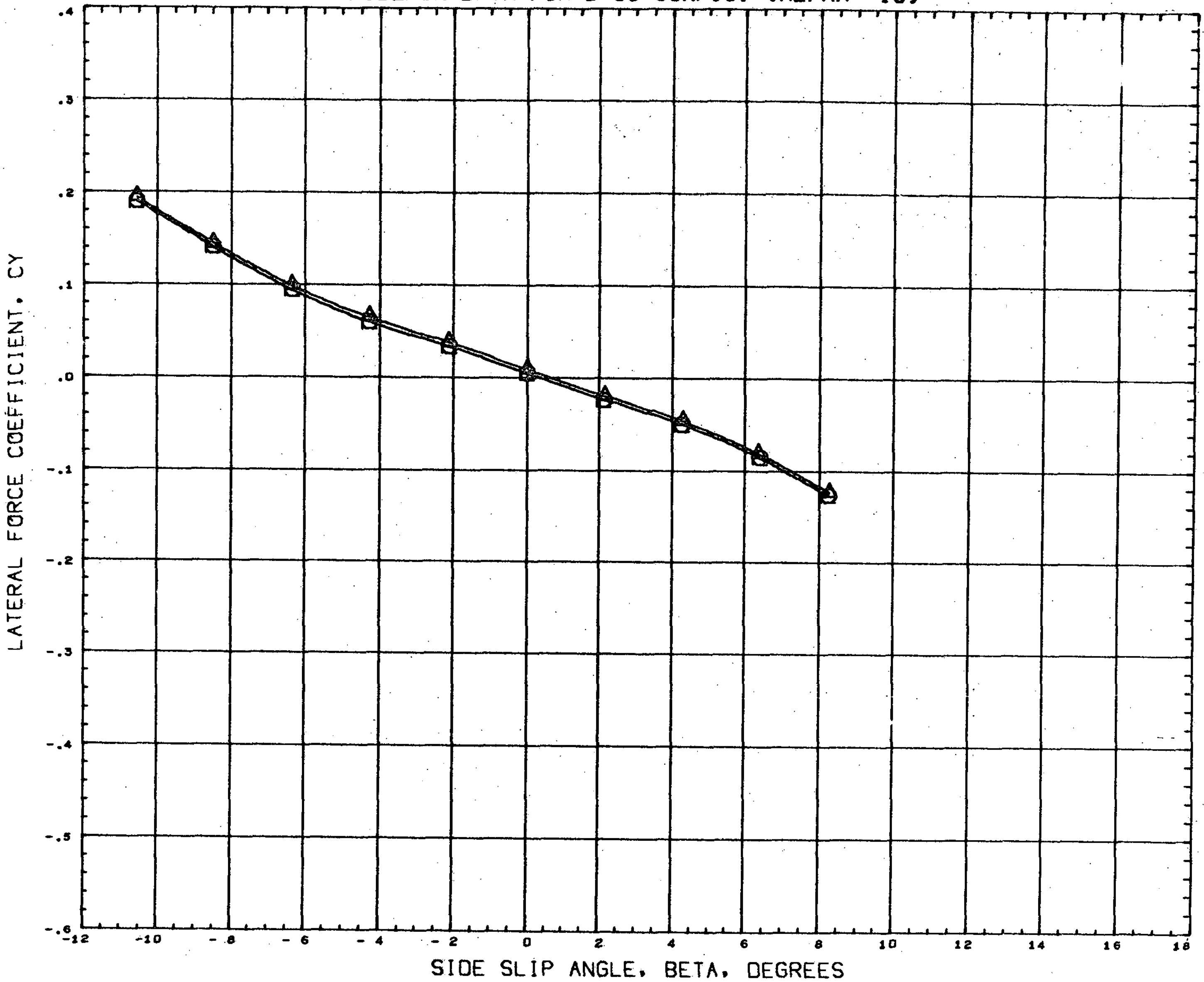
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(B35TCC)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 R=0	0.000		0.000	0.000
(A35ACA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 A=10	0.000	10.000	0.000	0.000

MACH 1.189

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 15)



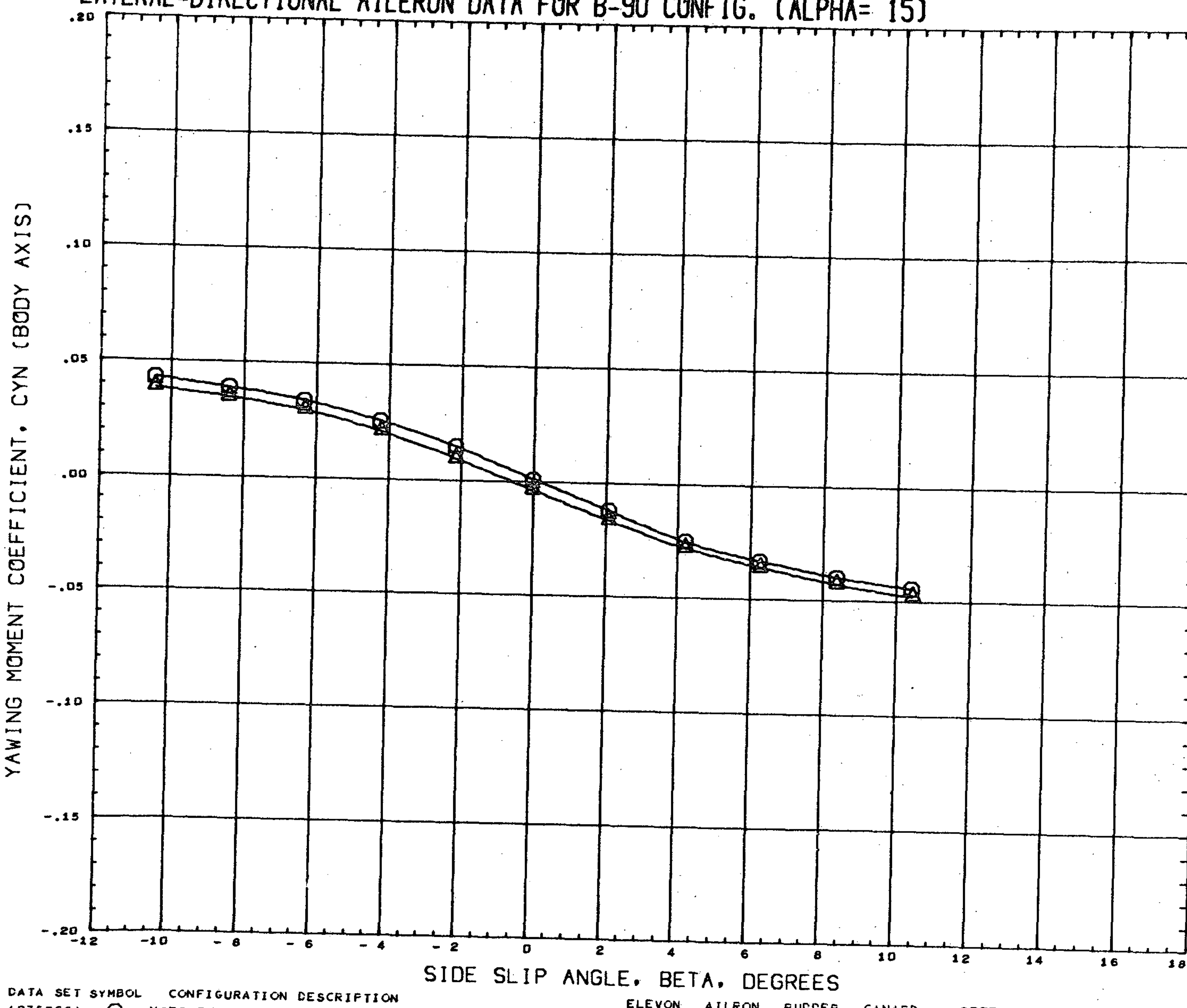
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(B35TCC)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 R=0	0.000		0.000	0.000
(A35ACA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 A=10	0.000	10.000	0.000	0.000

MACH 1.963

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 15)



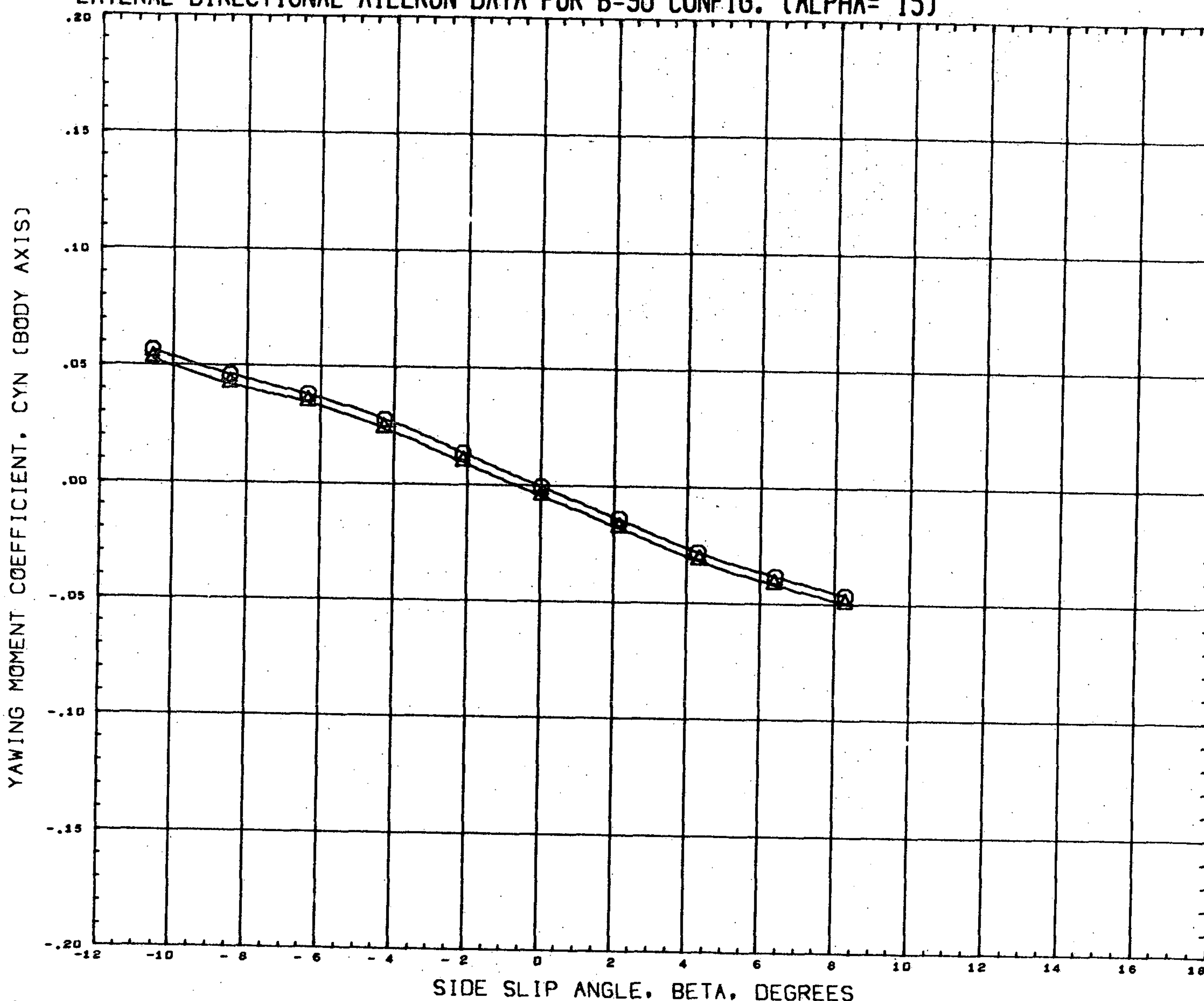
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(B35TCC)	○	MSFC TWT-493 GD/C B25W19C8V10 ALFHA=15 C=0 R=0	0.000		0.000	0.000
(A35ACA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALFHA=15 C=0 A=10	0.000	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.189

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 15)



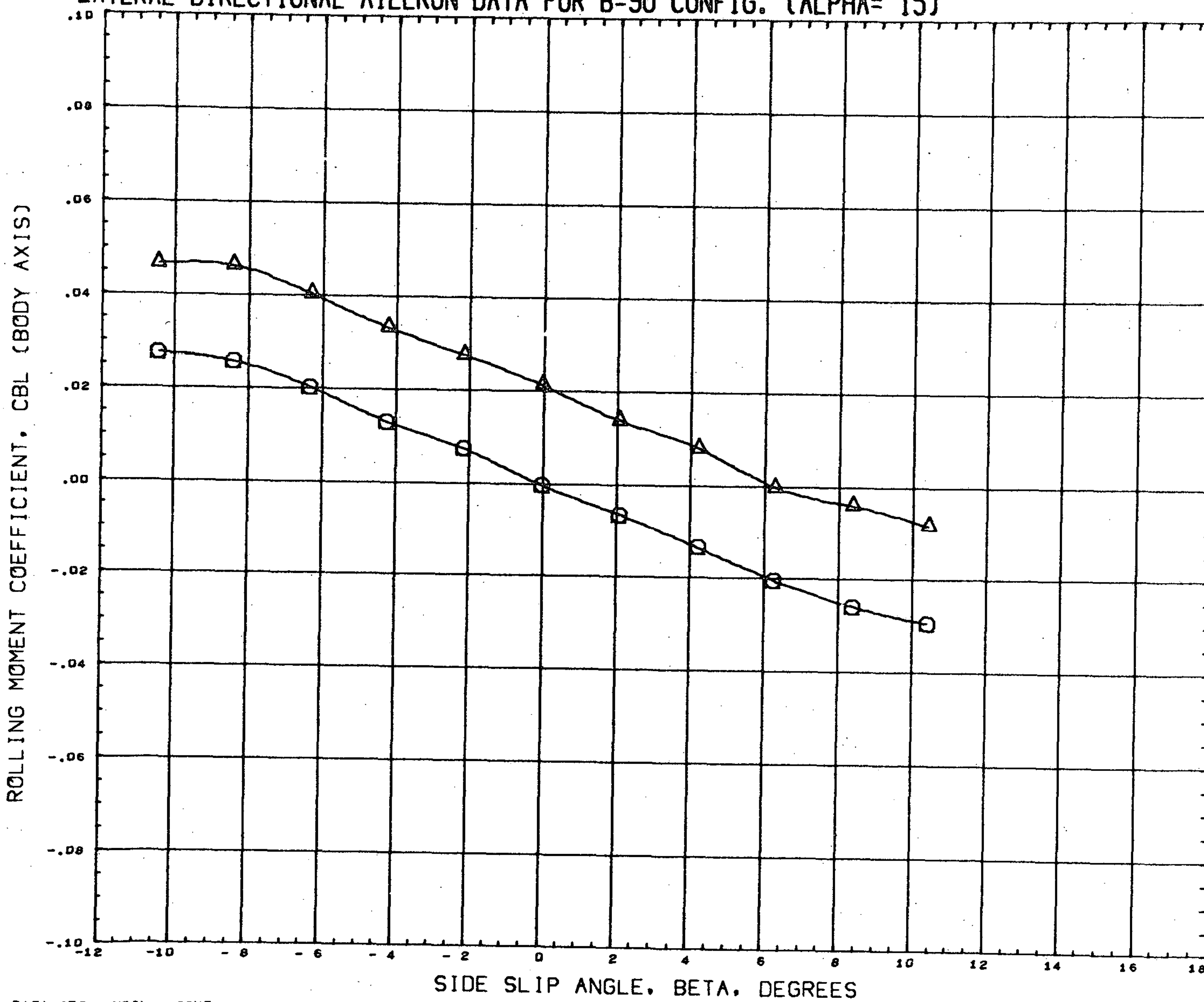
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(B35TCC)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 R=0	0.000		0.000	0.000
(A35ACA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 A=10	0.000	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.963

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 15)



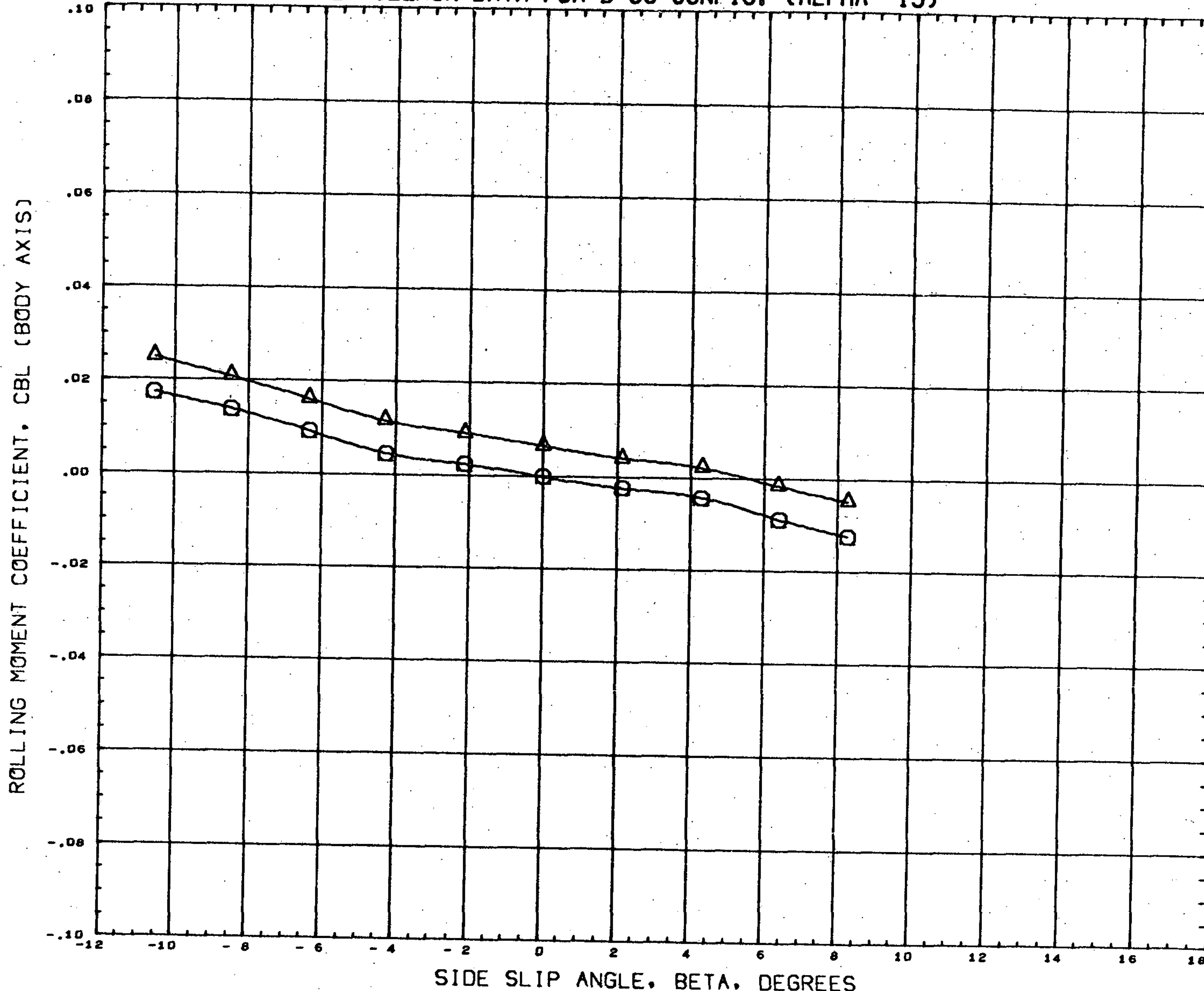
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(B35TCC)	O	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 R=0	0.000		0.000	0.000
(A35ACA)	Δ	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 A=10	0.000	10.000	0.000	0.000

MACH 1.189

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL AILERON DATA FOR B-9U CONFIG. (ALPHA= 15)

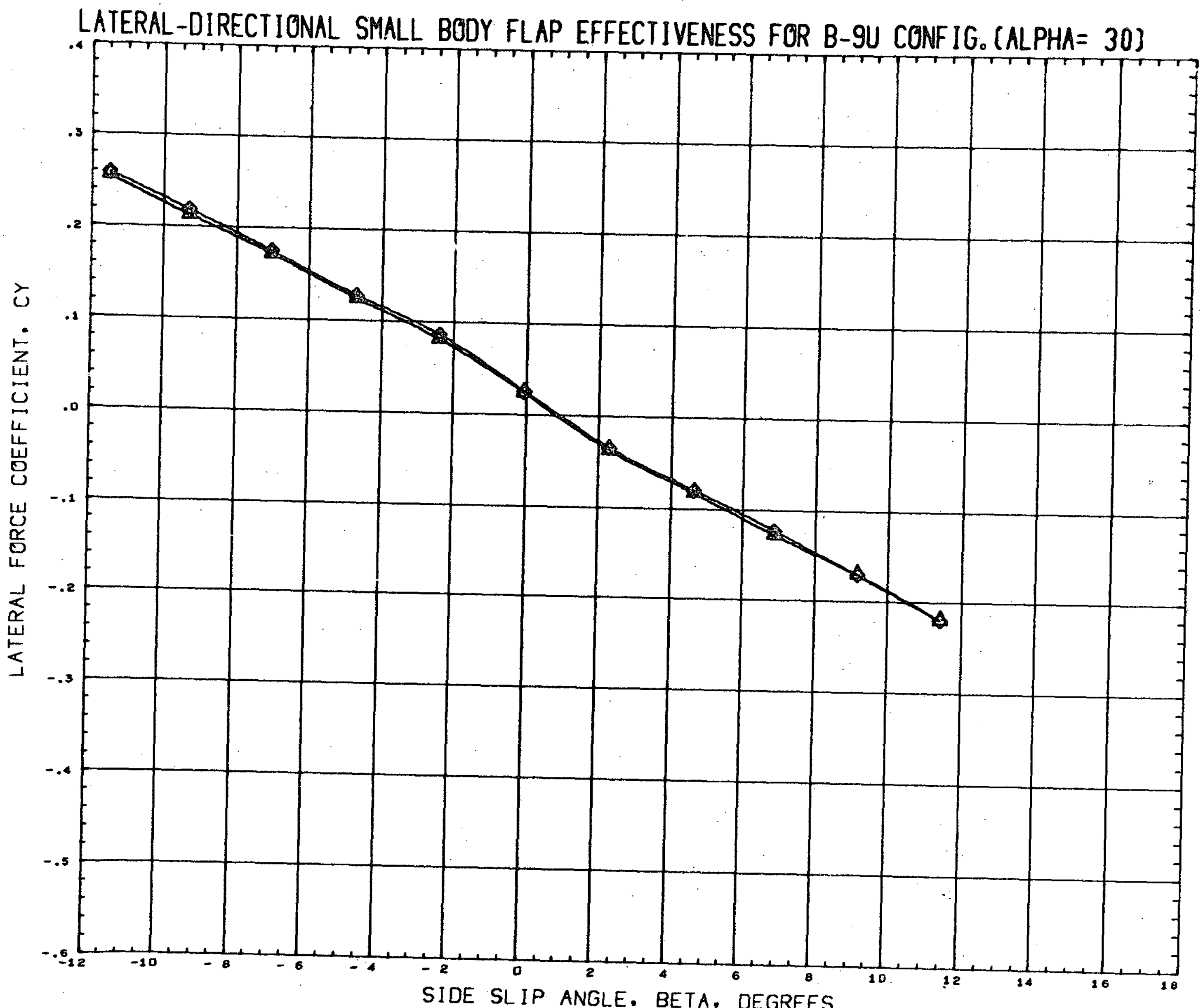


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RUDDER	CANARD
(B35TCC)	○	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 R=0	0.000		0.000	0.000
(A35ACA)	△	MSFC TWT-493 GD/C B25W19C8V10 ALPHA=15 C=0 A=10	0.000	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.963



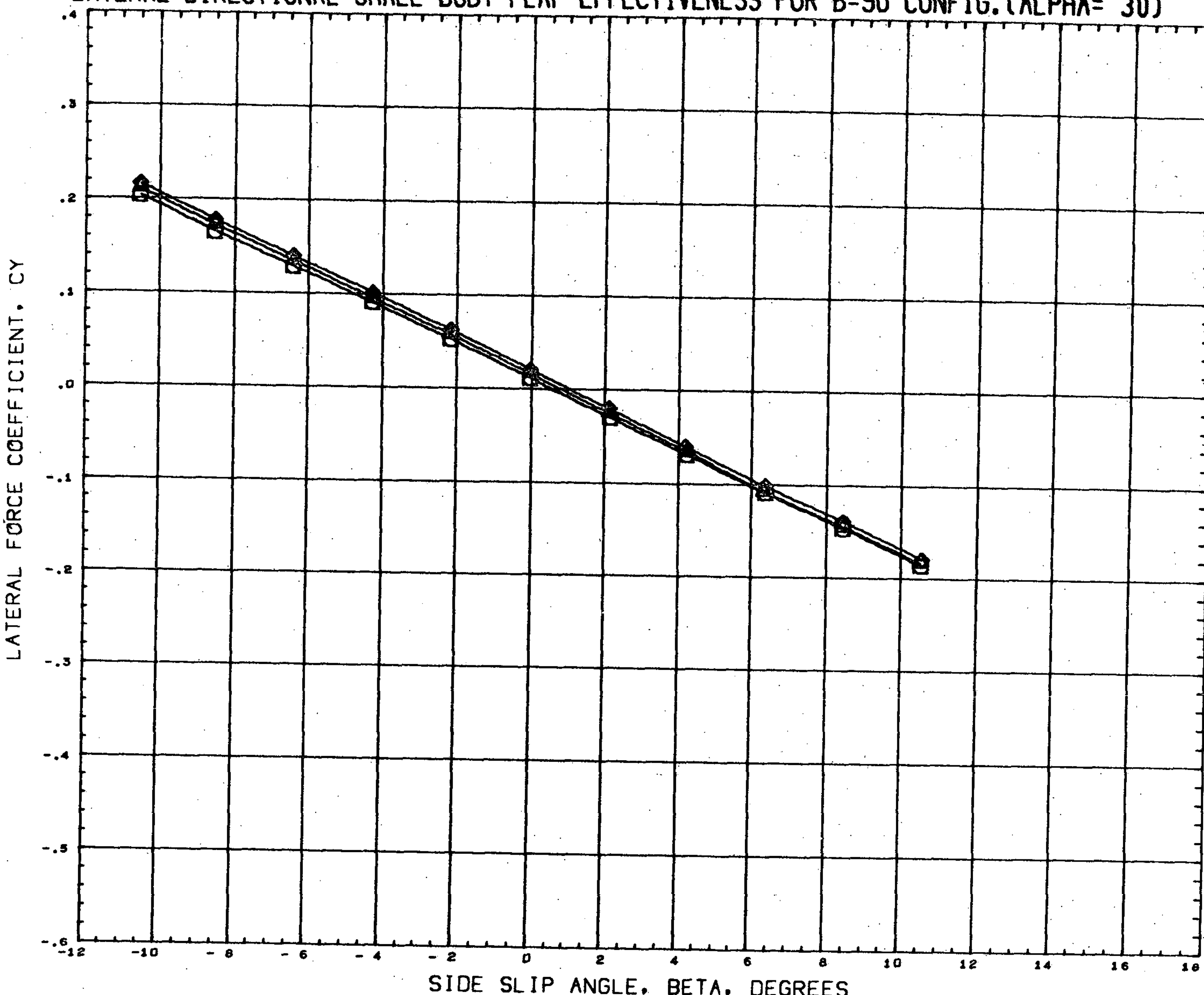
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C B25W19C8F7 ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCC)	◇	MSFC TWT-493 GD/C B25W19C8F7 ALPHA=30 C=0 F=60	30.000	60.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.972

LATERAL-DIRECTIONAL SMALL BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 30)



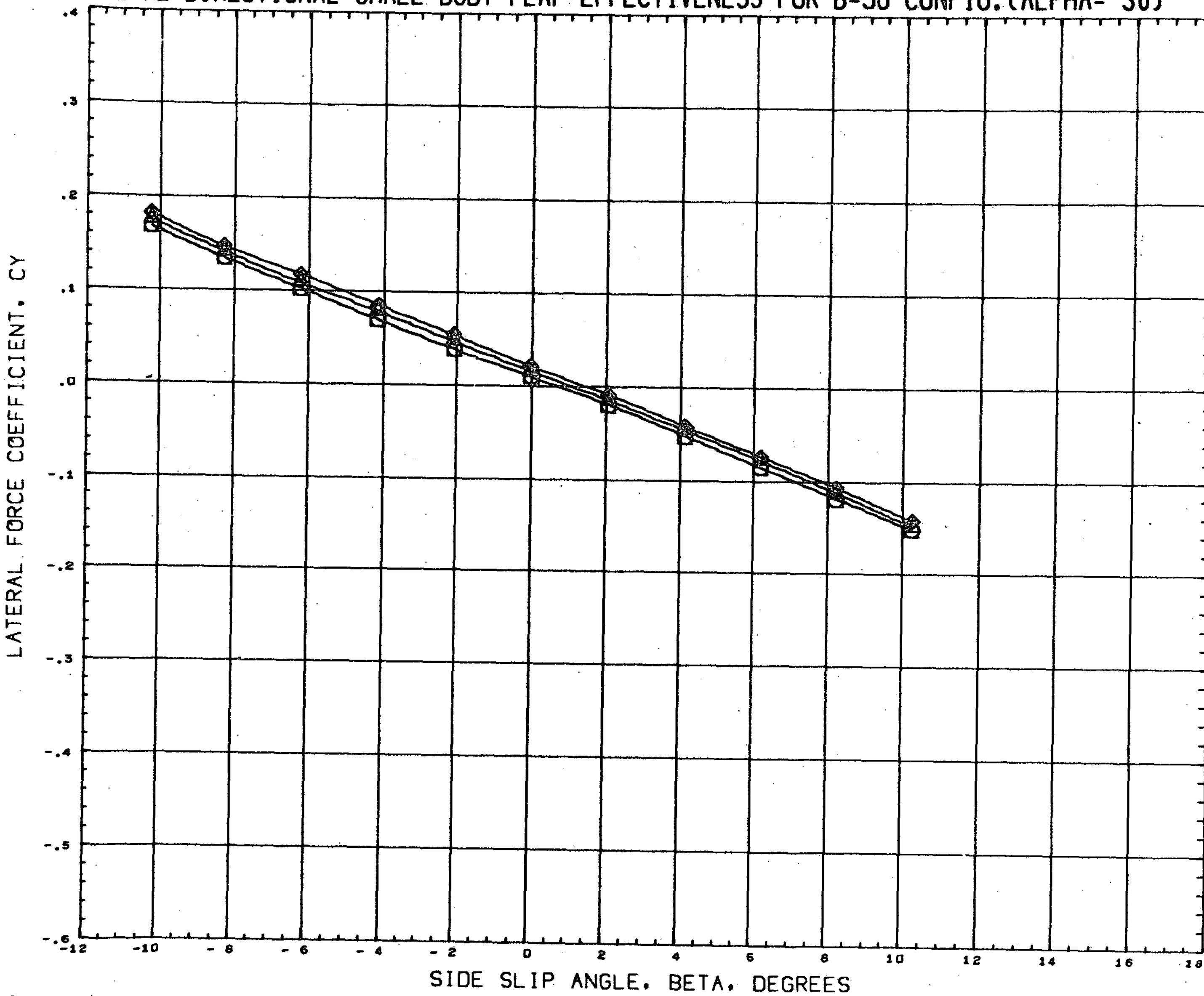
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCC)	◇	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=30 C=0 F=60	30.000	60.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL SMALL BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 30)



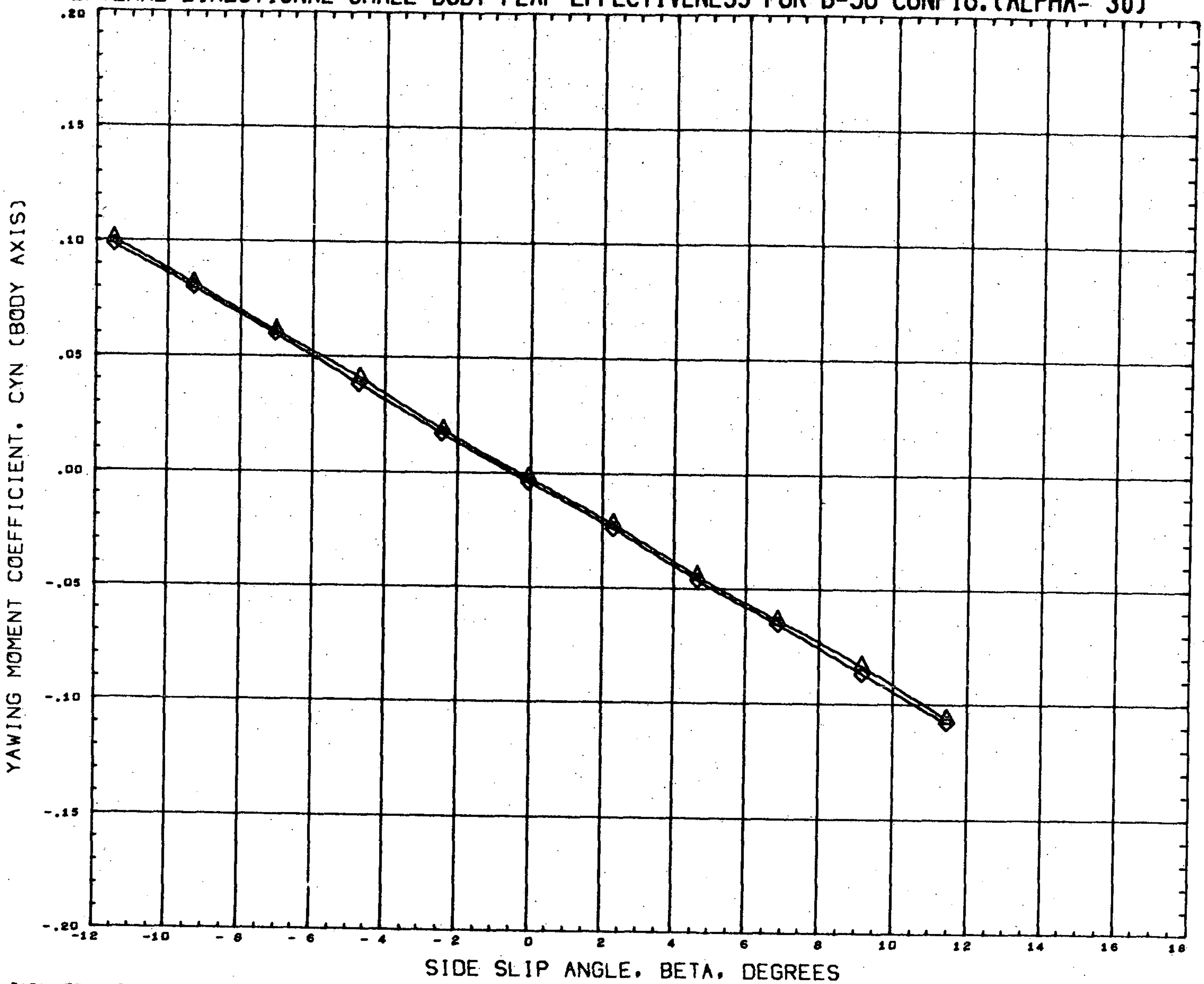
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCC)	◇	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=30 C=0 F=60	30.000	60.000	0.000	0.000

MACH 4.959

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL SMALL BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 30)

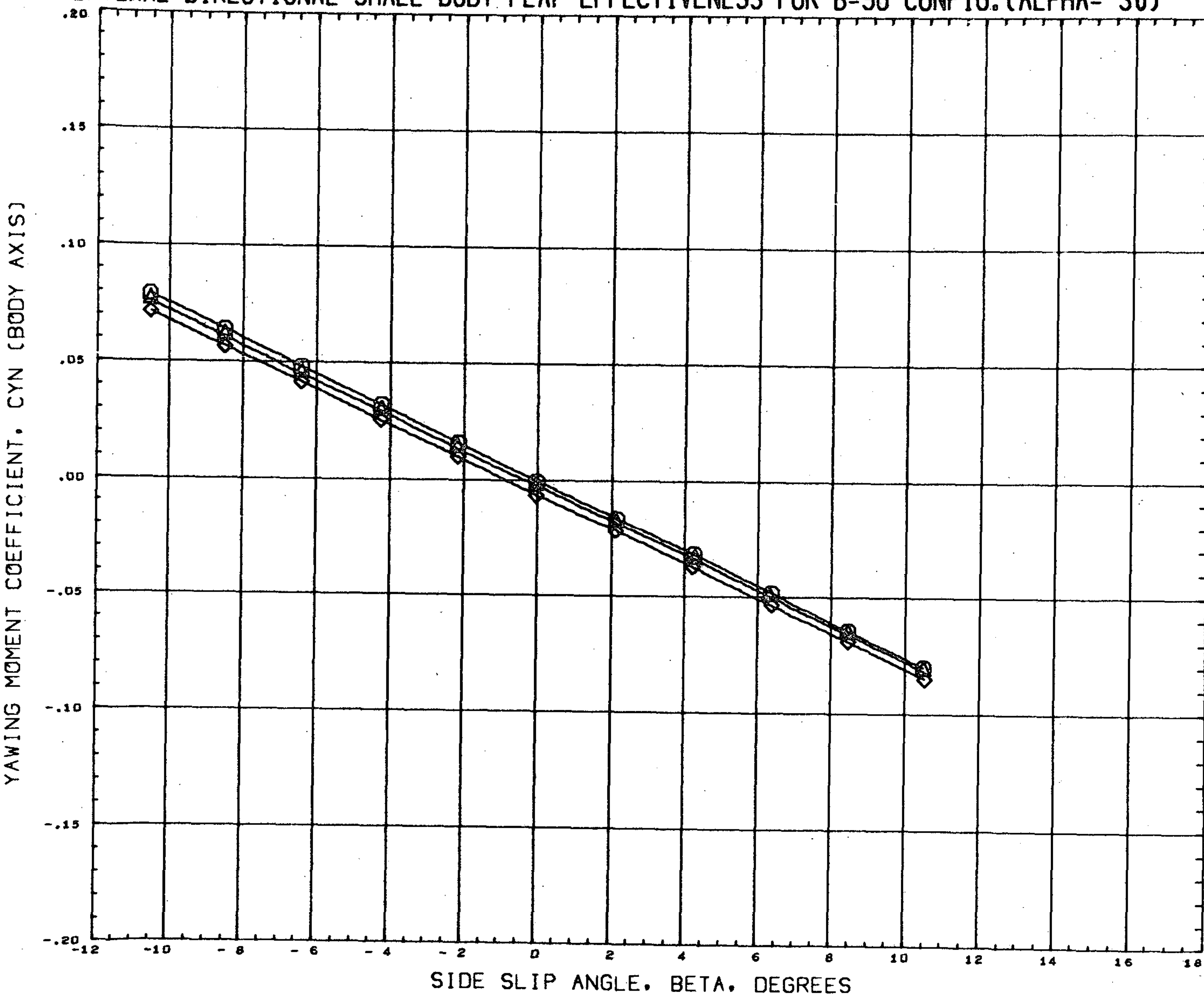


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C B25W19C8F7 ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCC)	◇	MSFC TWT-493 GD/C B25W19C8F7 ALPHA=30 C=0 F=60	30.000	60.000	0.000	0.000

MACH 1.972

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL SMALL BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 30)



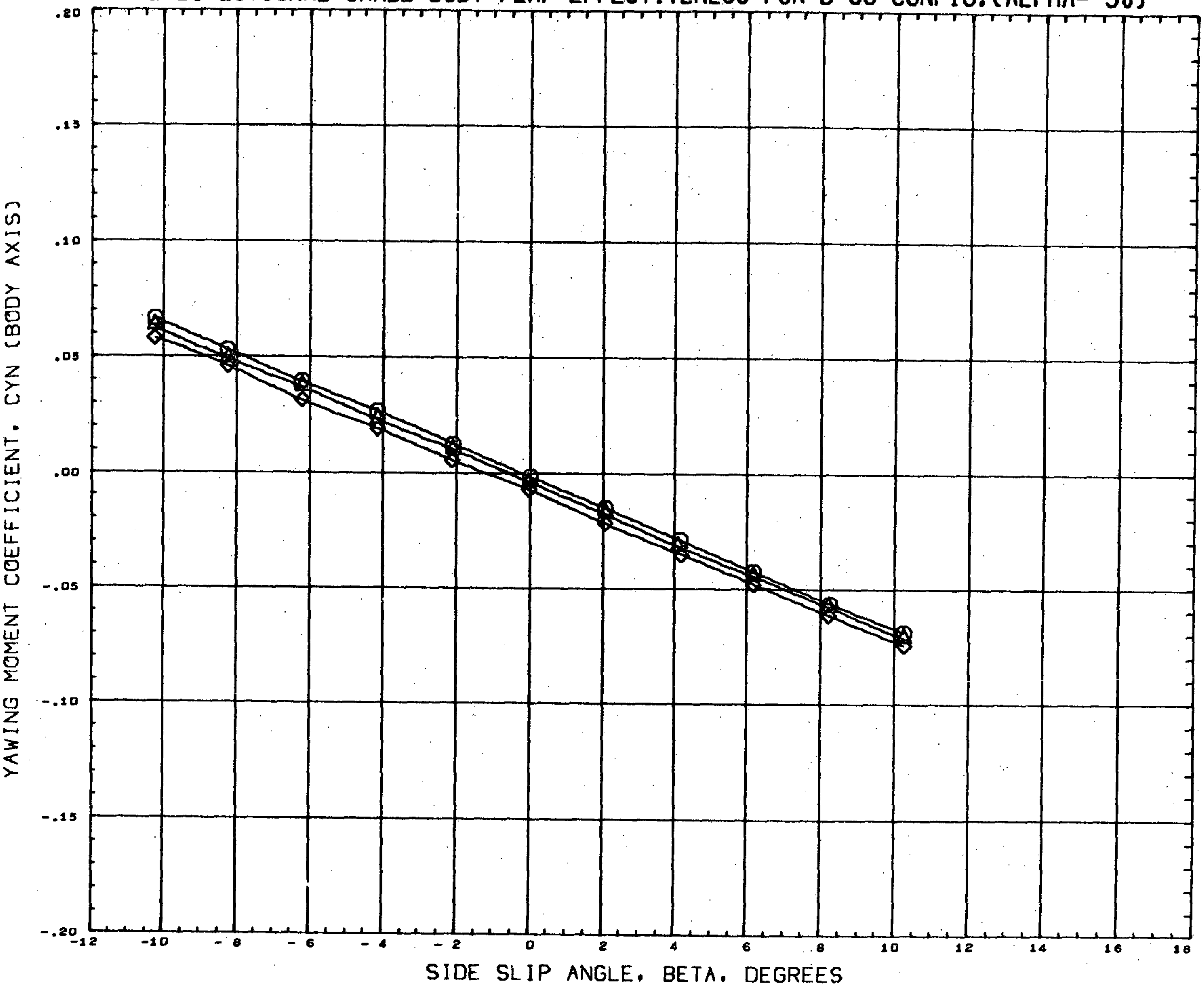
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCC)	◇	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=30 C=0 F=60	30.000	60.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL SMALL BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 30)

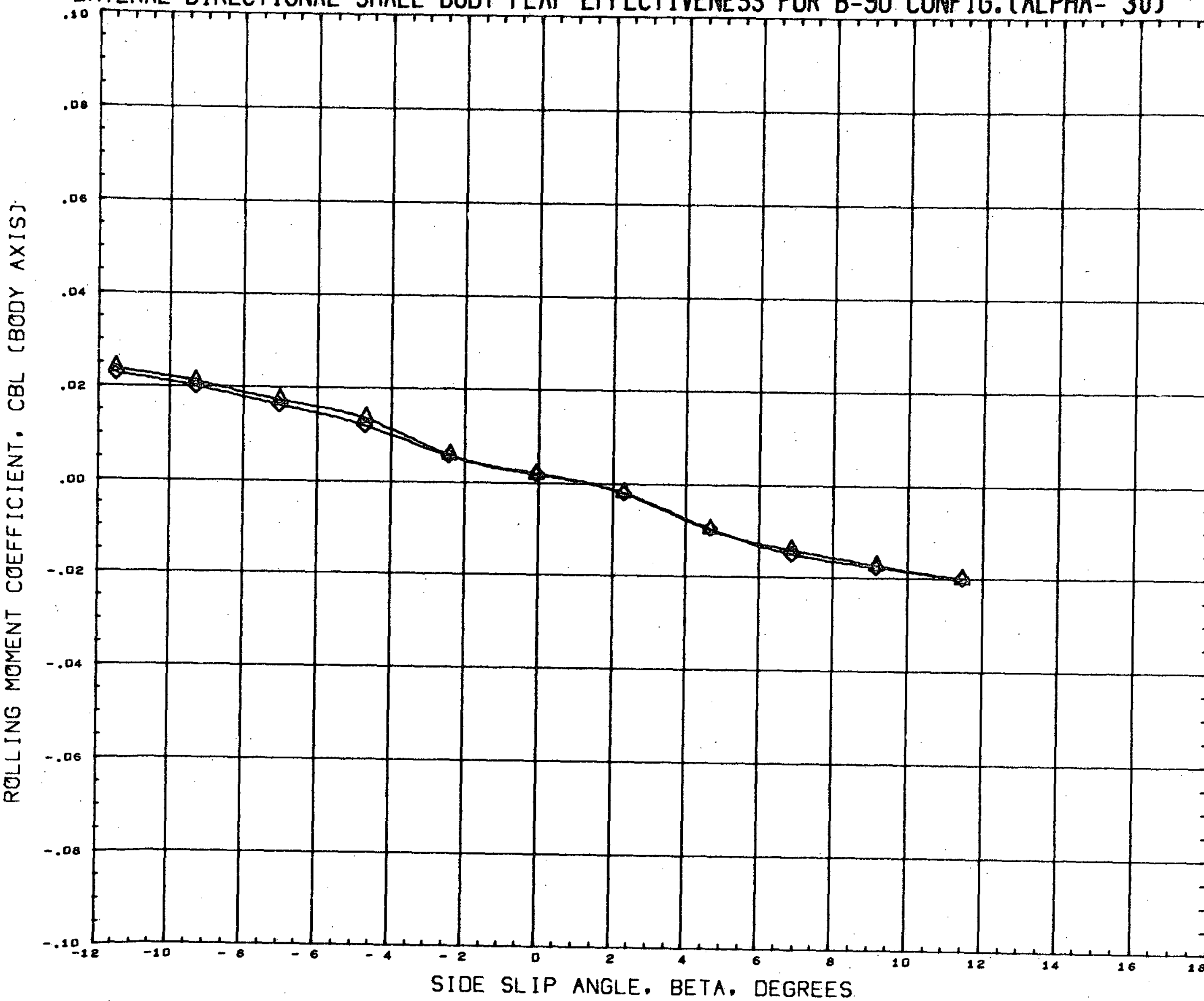


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCC)	◇	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=30 C=0 F=60	30.000	60.000	0.000	0.000

MACH 4.959

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL SMALL BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 30)



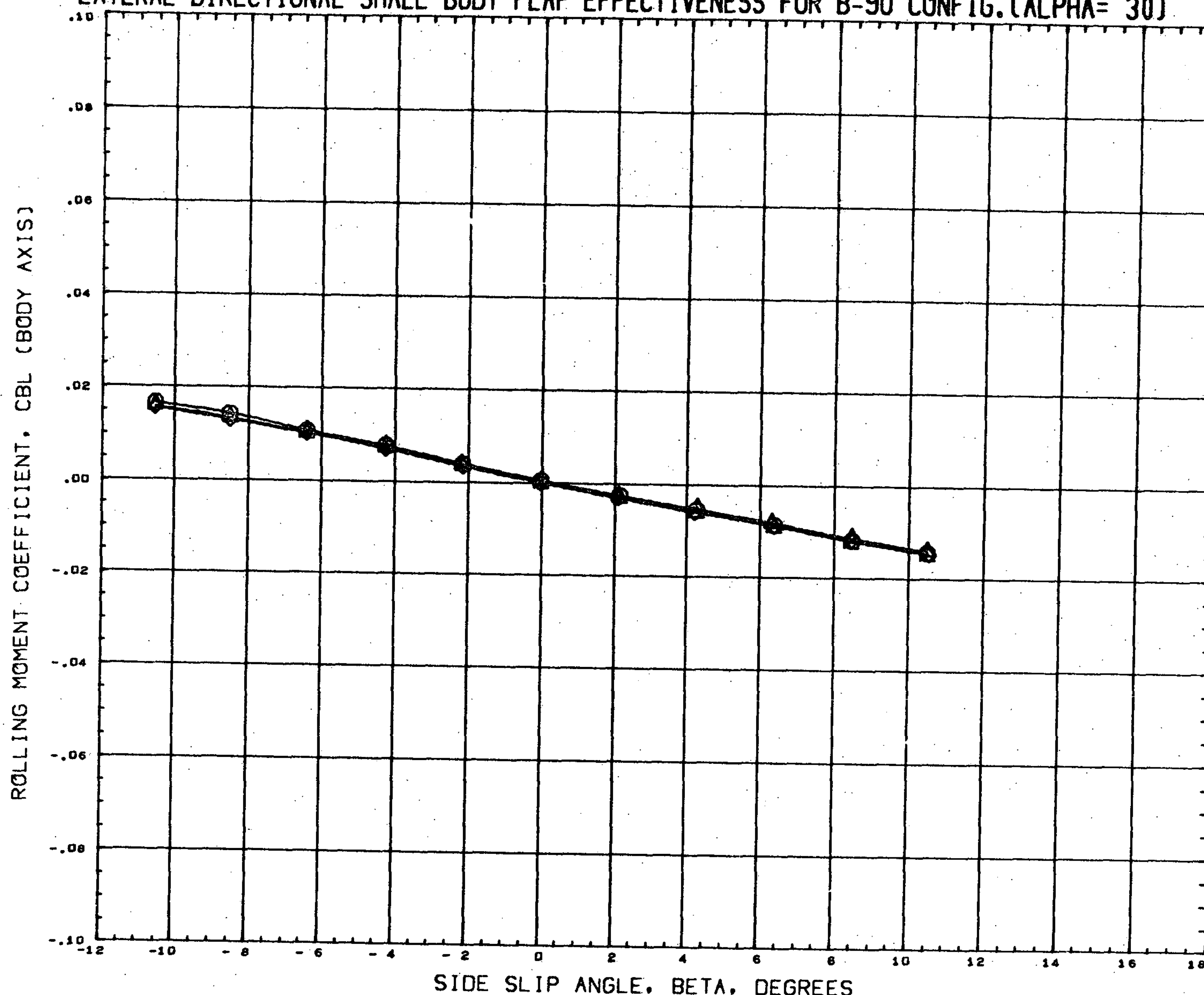
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C B25W19C8F7 ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCC)	◇	MSFC TWT-493 GD/C B25W19C8F7 ALPHA=30 C=0 F=60	30.000	60.000	0.000	0.000

MACH 1.972

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL SMALL BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 30)



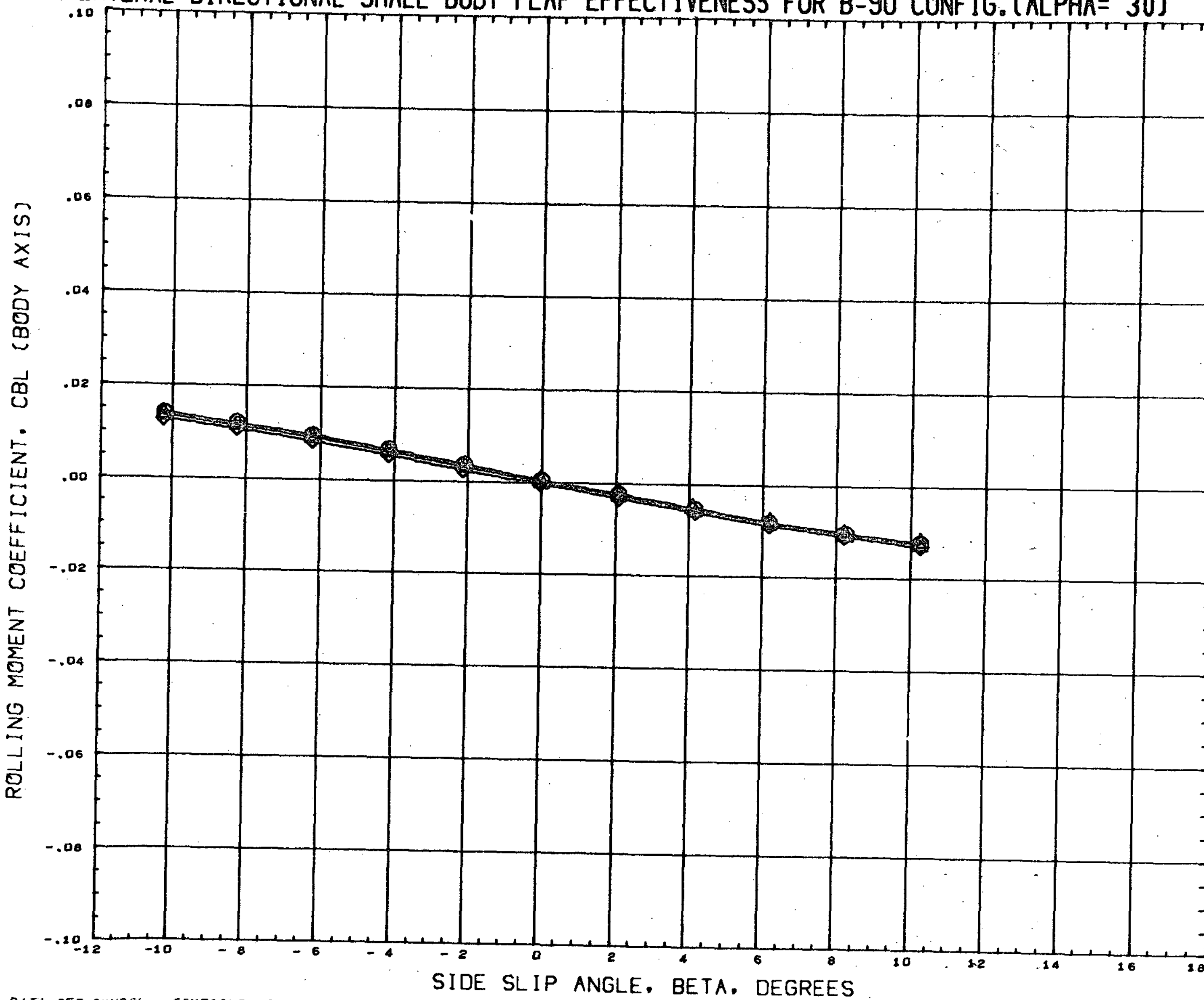
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCC)	◇	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=30 C=0 F=60	30.000	60.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL SMALL BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 30)



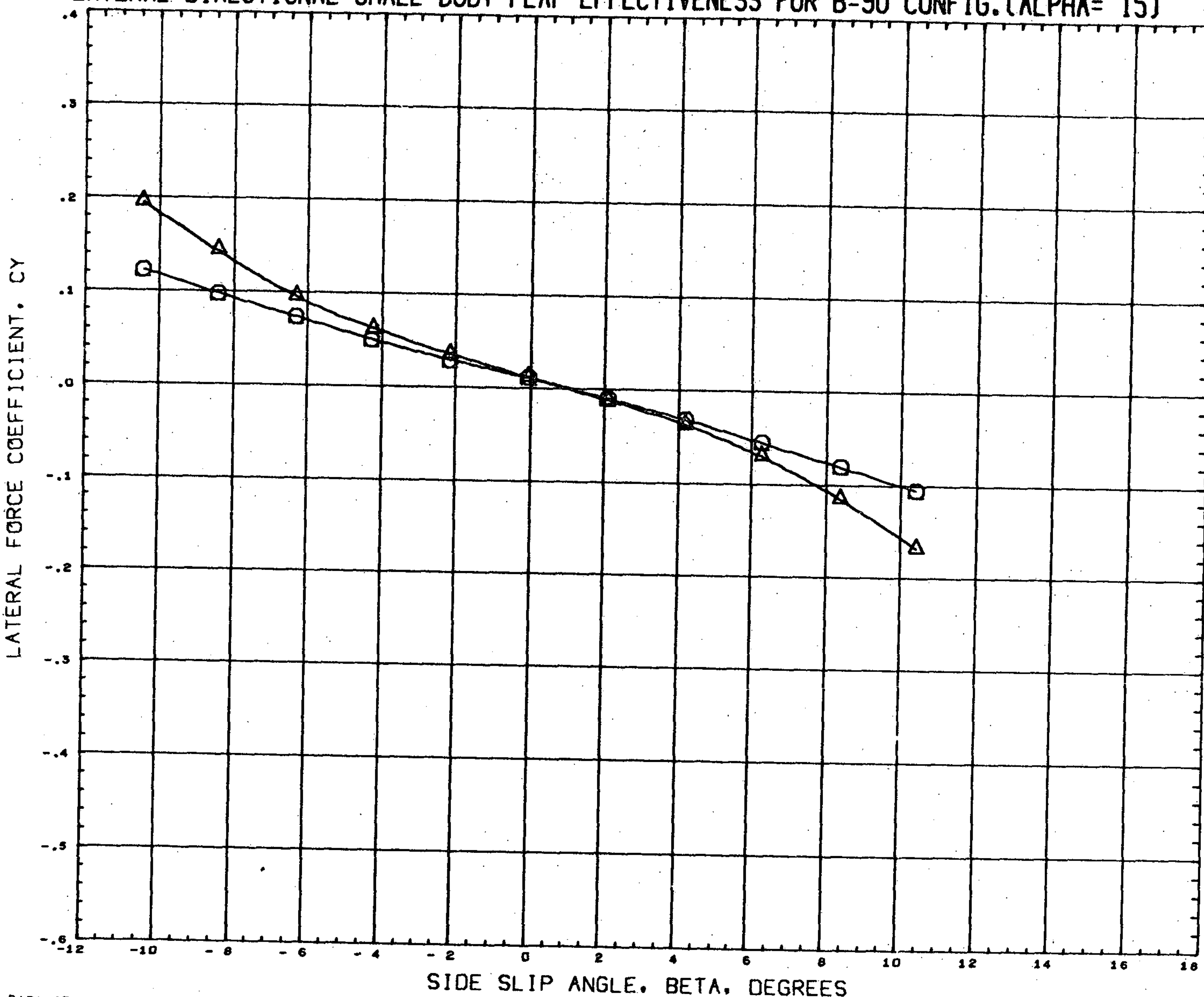
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCC)	◇	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=30 C=0 F=60	30.000	60.000	0.000	0.000

MACH 4.959

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL SMALL BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 15)

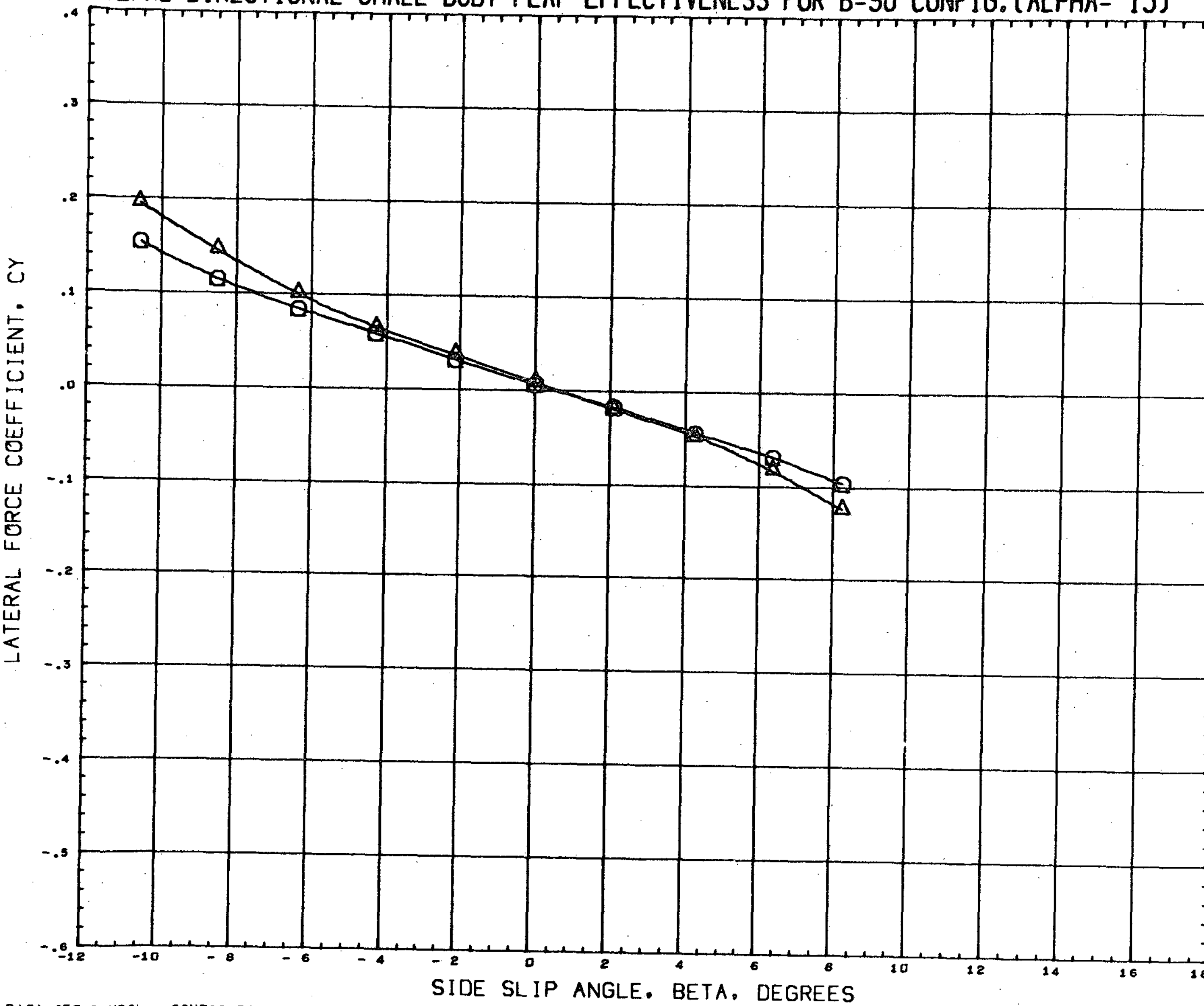


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(B35OCC)	O	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=DR=DF	15.000		0.000	0.000
(A35FCB)	Δ	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.192

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL SMALL BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 15)



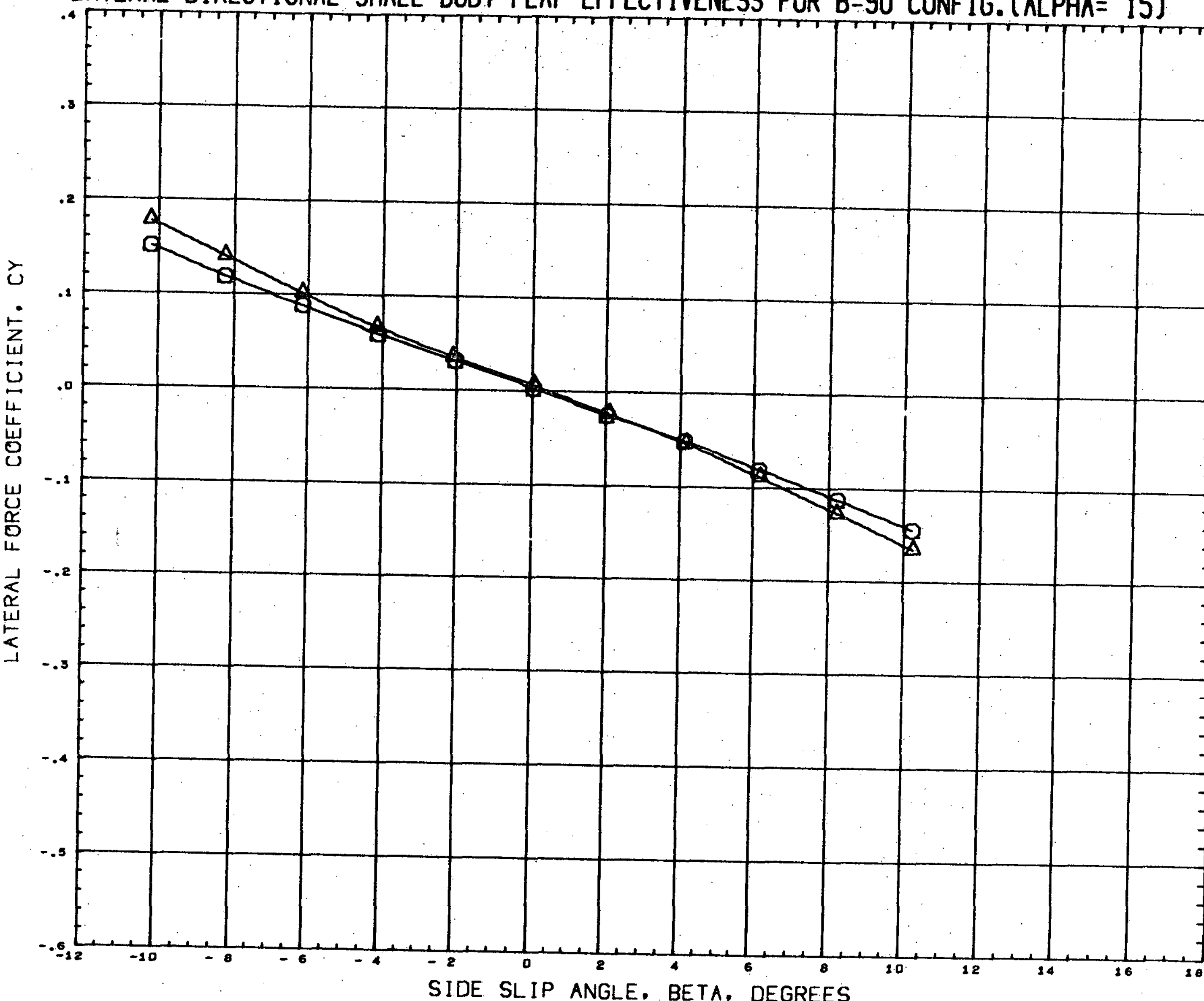
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(B35OCC)	O	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=OR=OF	15.000		0.000	0.000
(A35FCB)	Δ	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=15 C=O F=40	15.000	40.000	0.000	0.000

MACH 1.964

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL SMALL BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 15)



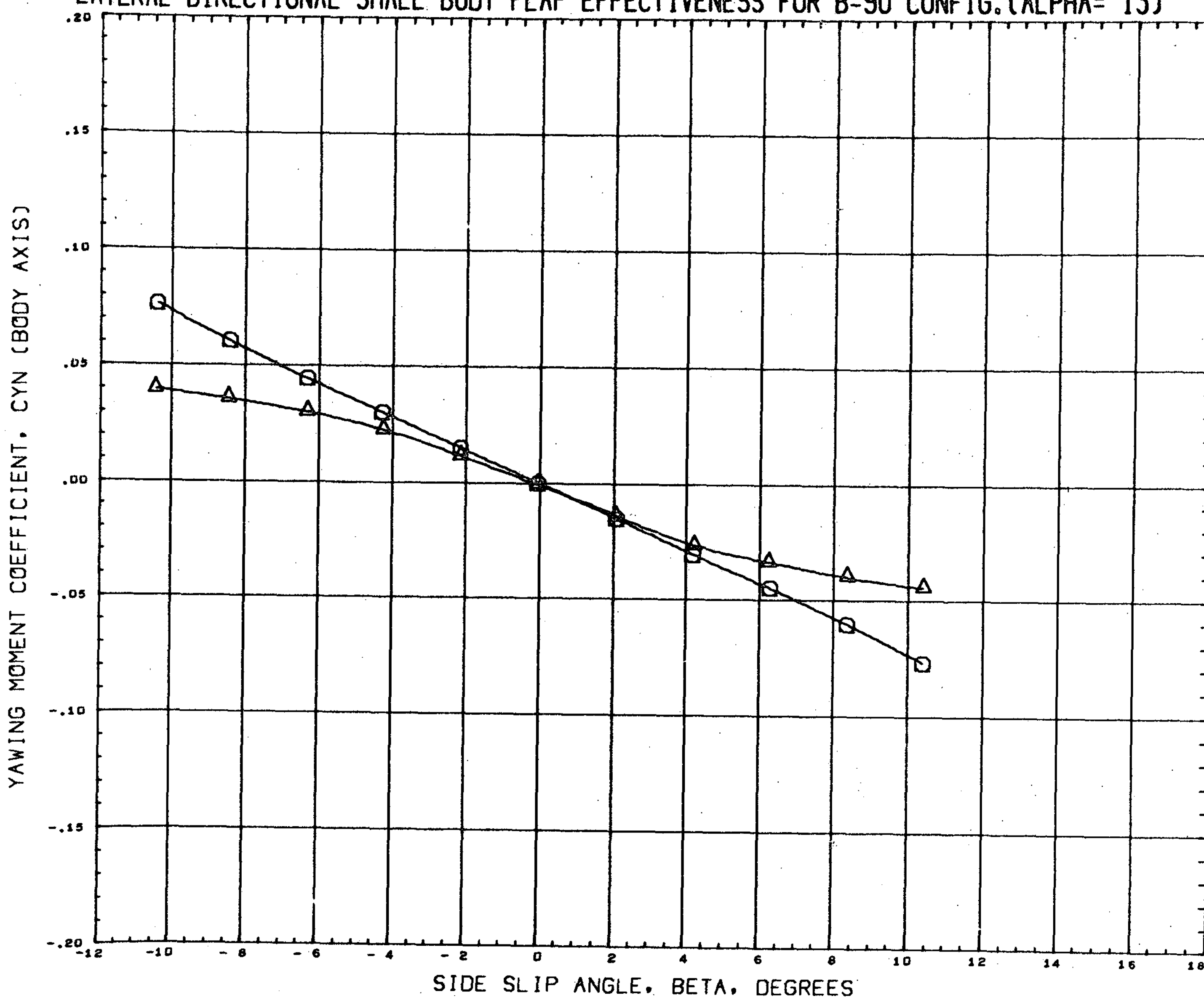
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(B35OCC)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000		0.000	0.000
(A35FCB)	△	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL SMALL BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 15)



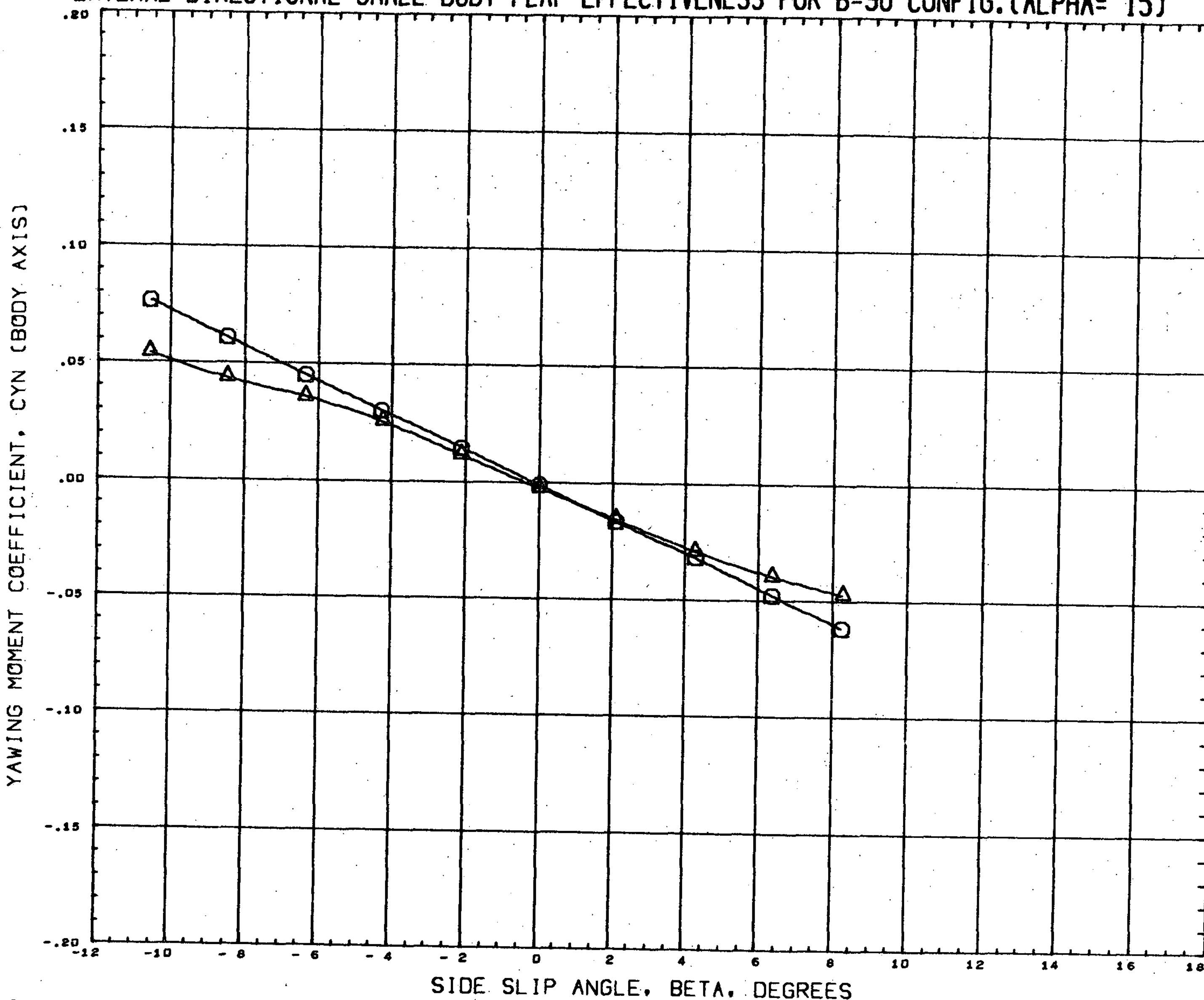
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(B35OCC)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=DR=DF	15.000		0.000	0.000
(A35FCB)	△	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.192

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL SMALL BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 15)



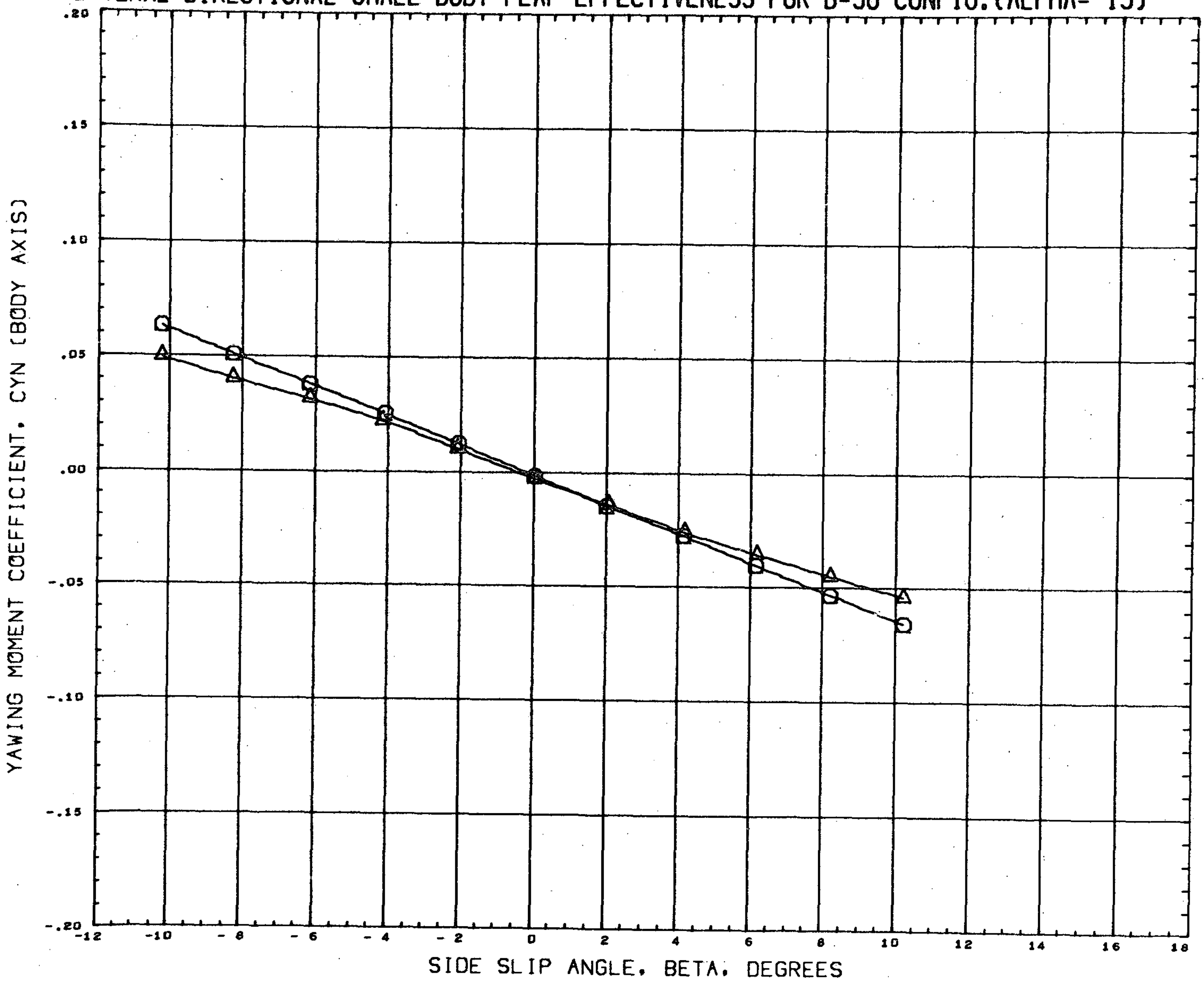
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(B35OCC)	O	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=0R=0F	15.000		0.000	0.000
(A35FCB)	Δ	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.964

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL SMALL BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 15)



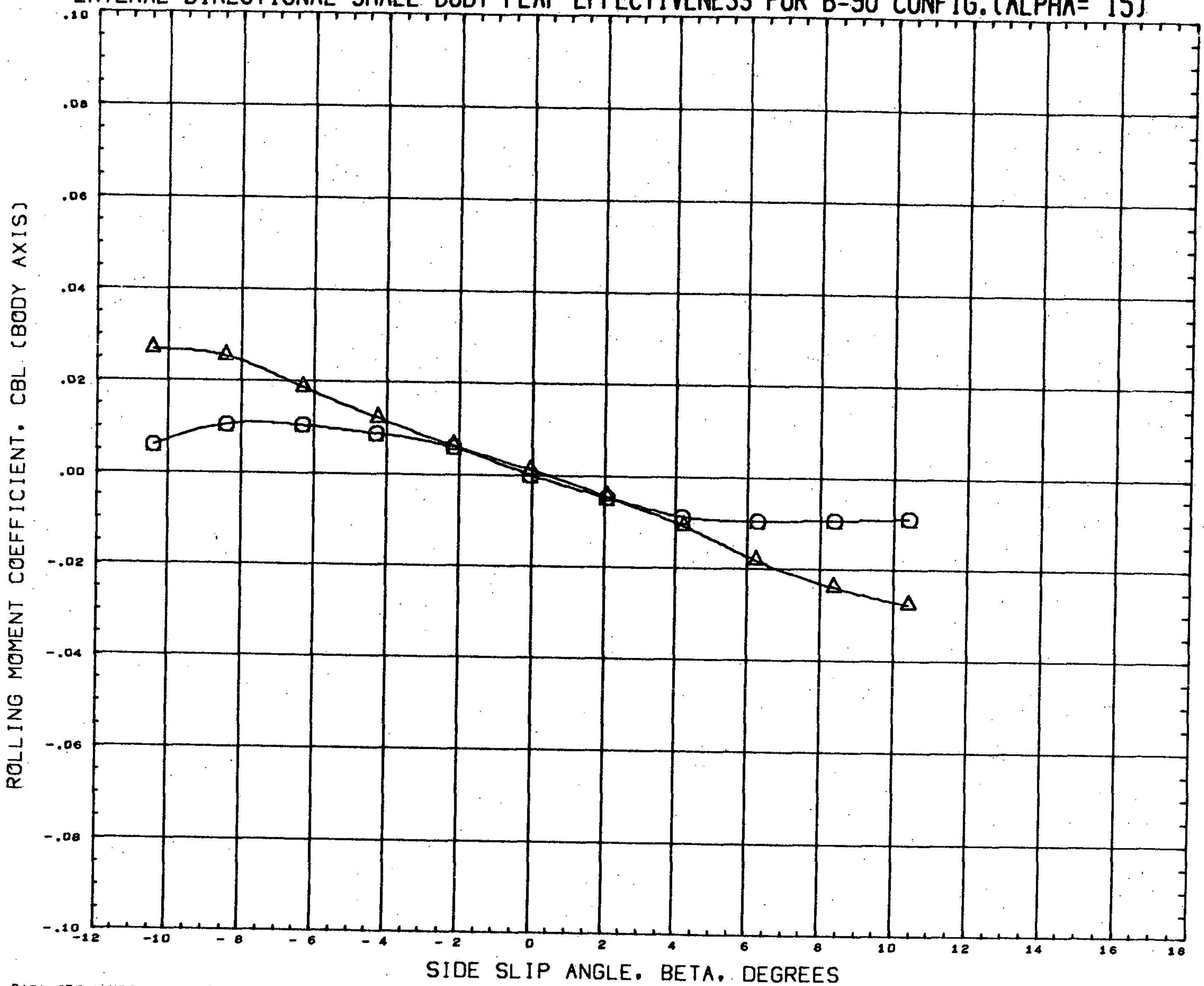
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(B35OCC)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000		0.000	0.000
(A35FCB)	△	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LATERAL-DIRECTIONAL SMALL BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 15)

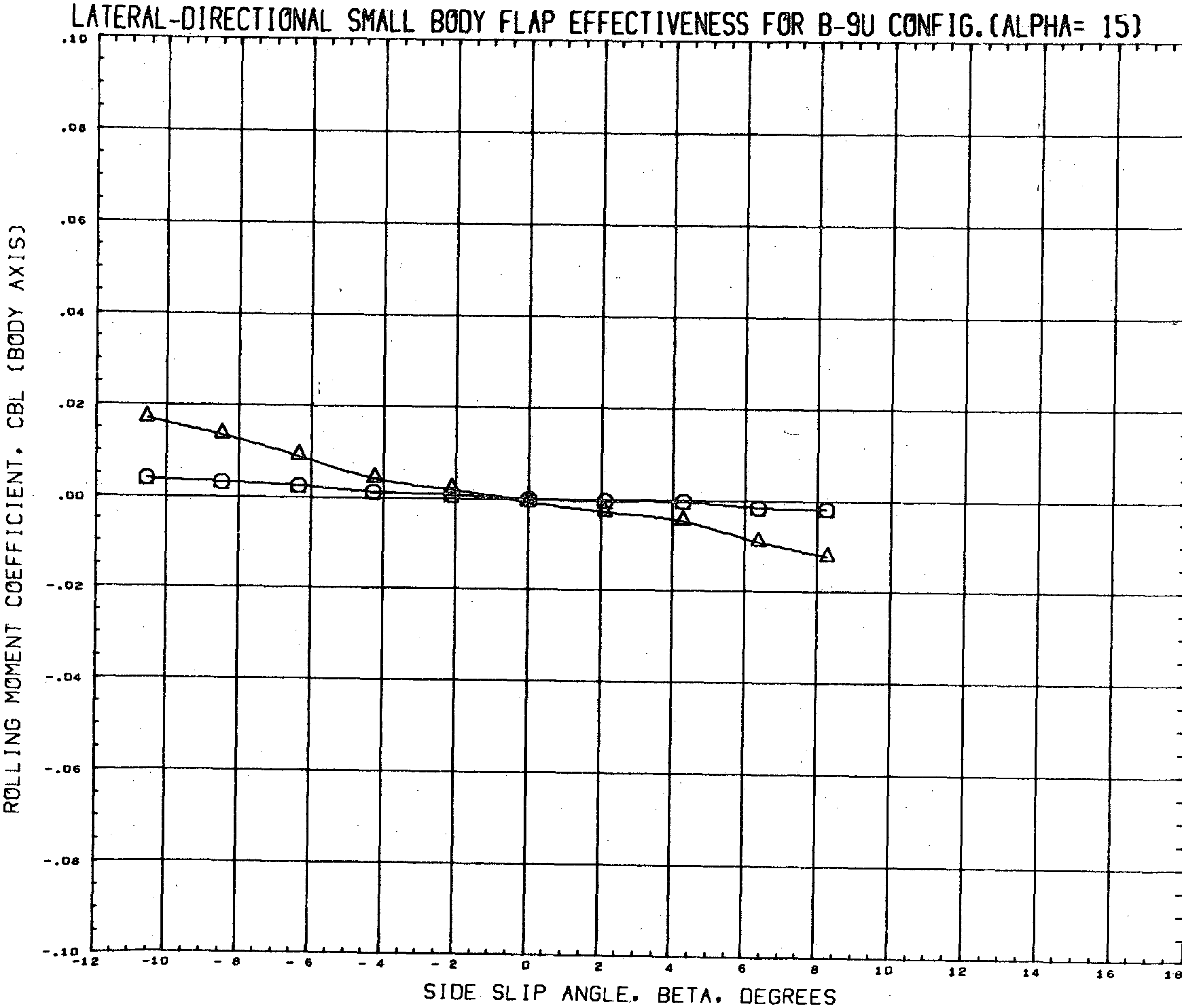


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(B35OCC)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=OR=OF	15.000		0.000	0.000
(A35FCB)	△	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.192

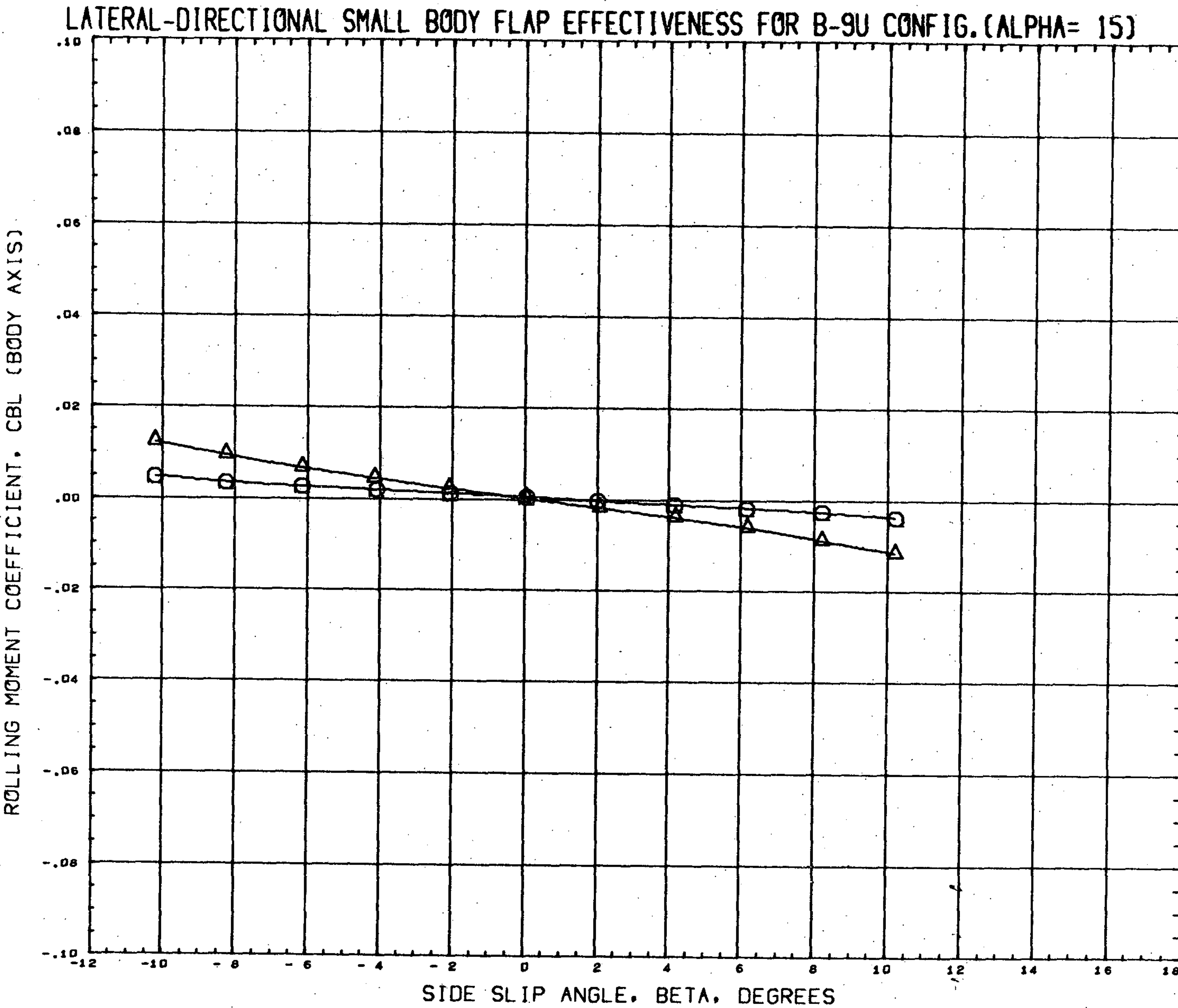


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(B35OCC)	O	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=OR=OF	15.000		0.000	0.000
(A35FCB)	Δ	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.964

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	



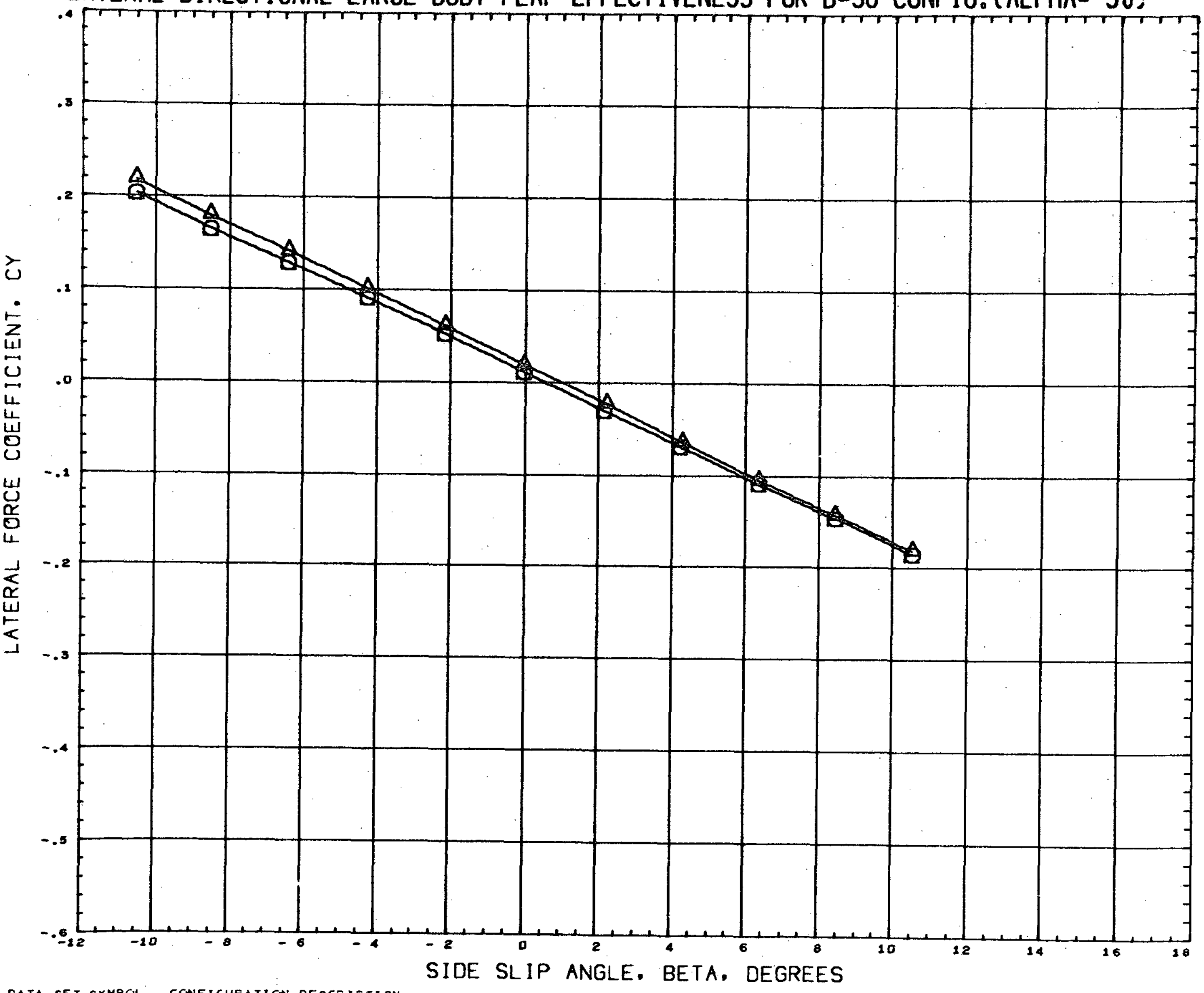
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(B35OCC)	O	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000		0.000	0.000
(A35FCB)	Δ	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LATERAL-DIRECTIONAL LARGE BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 30)



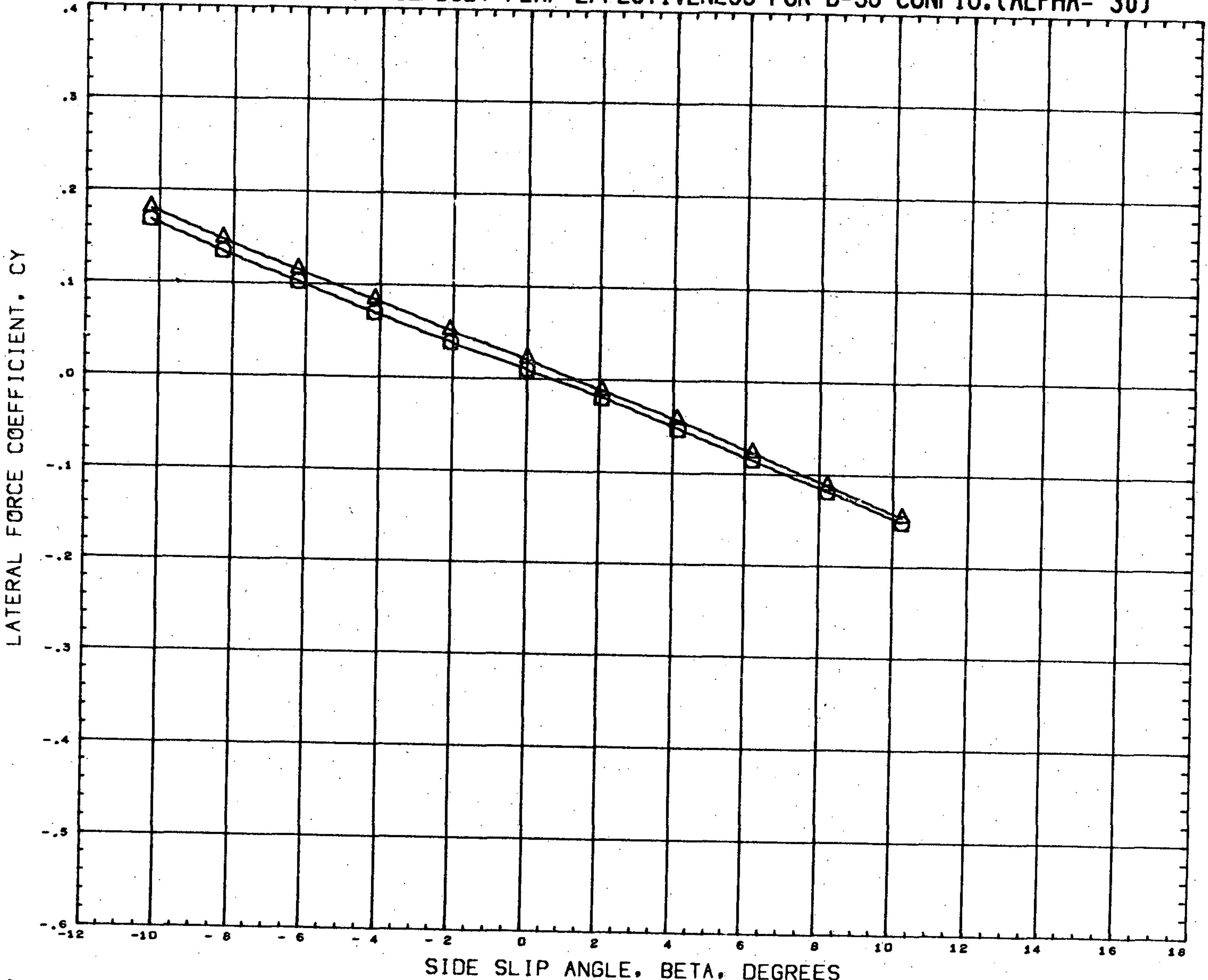
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(B35FCD)	△	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LARGE BODY FLAP EFFECTIVENESS FOR B-9U CONFIG. (ALPHA= 30)

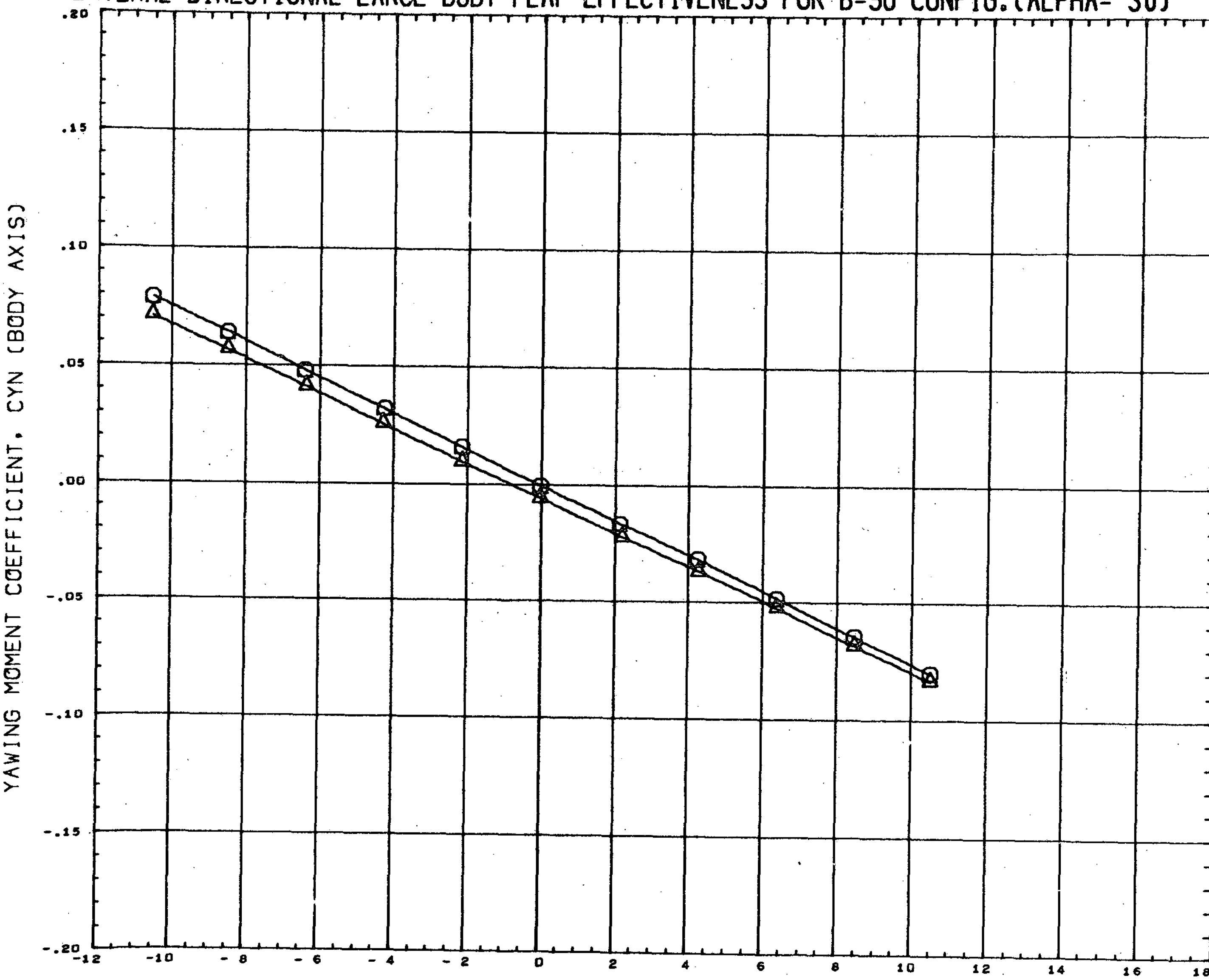


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(B35FCD)	△	MSFC TWT-493 GD/C B25W19C8F8	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000

MACH 4.959

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LARGE BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 30)



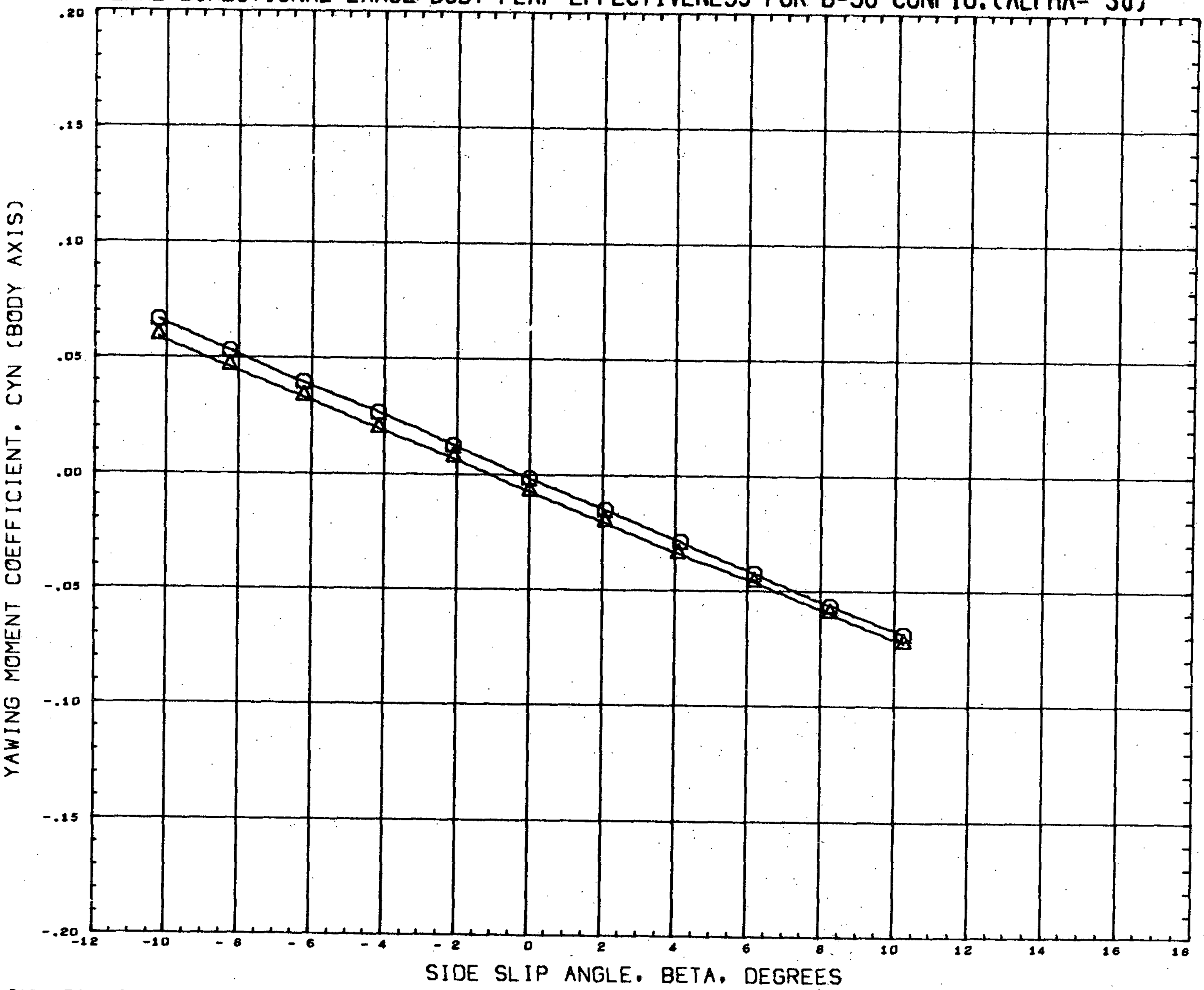
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALFHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(B35FCD)	△	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LARGE BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 30)



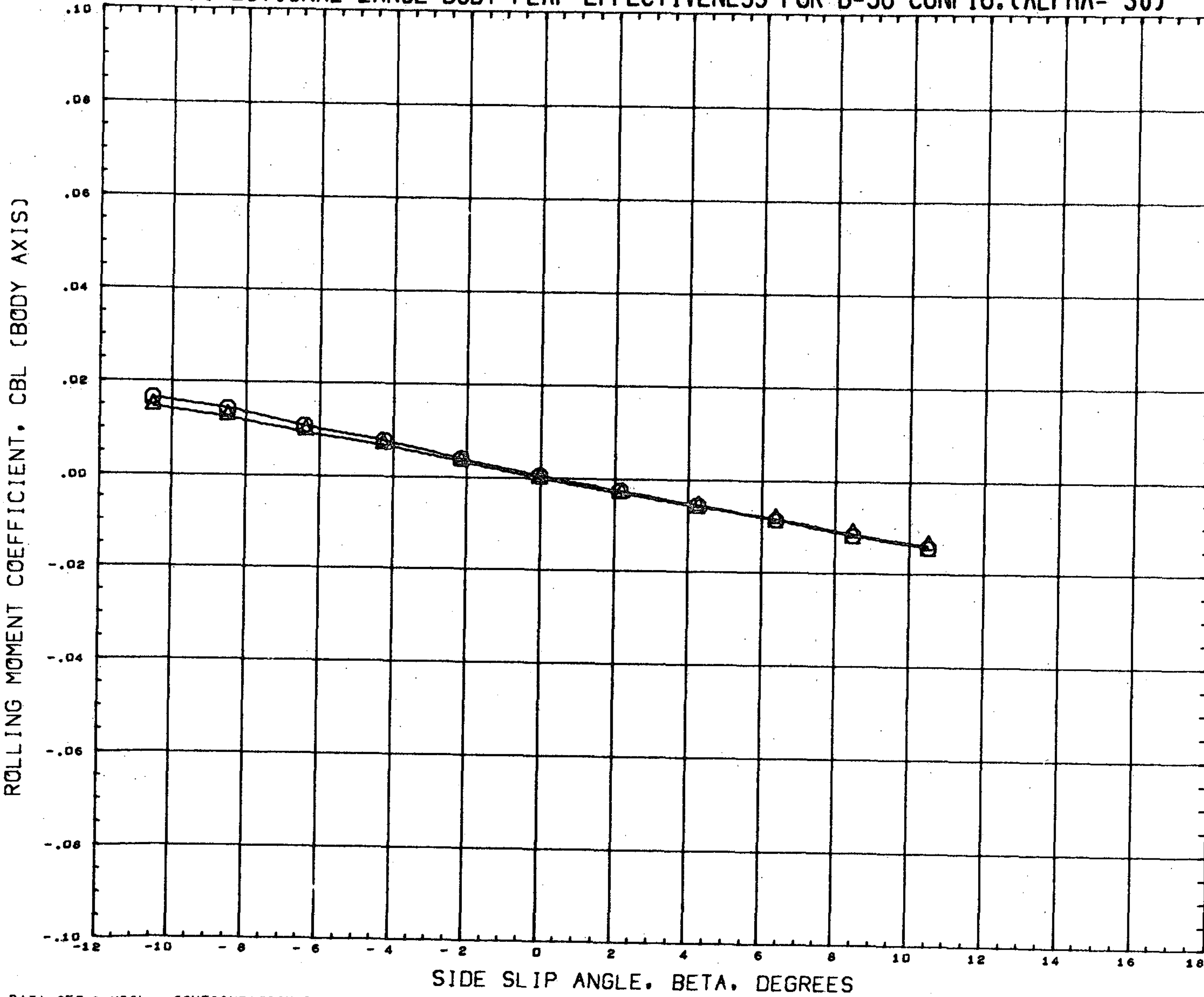
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(B35FCD)	△	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000

MACH 4.959

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LARGE BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 30)



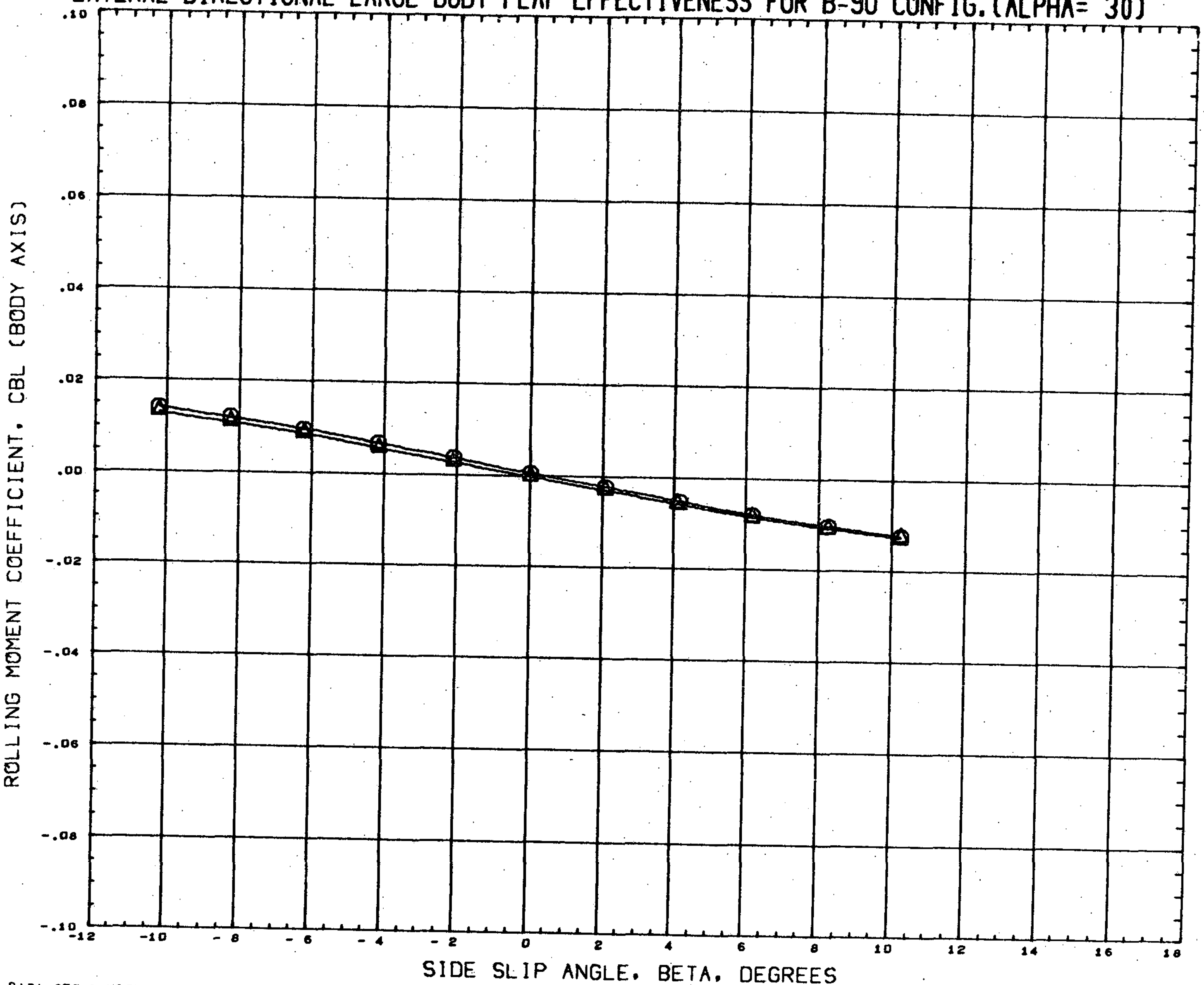
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(B35FCD)	△	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LARGE BODY FLAP EFFECTIVENESS FOR B-9U CONFIG. (ALPHA= 30)



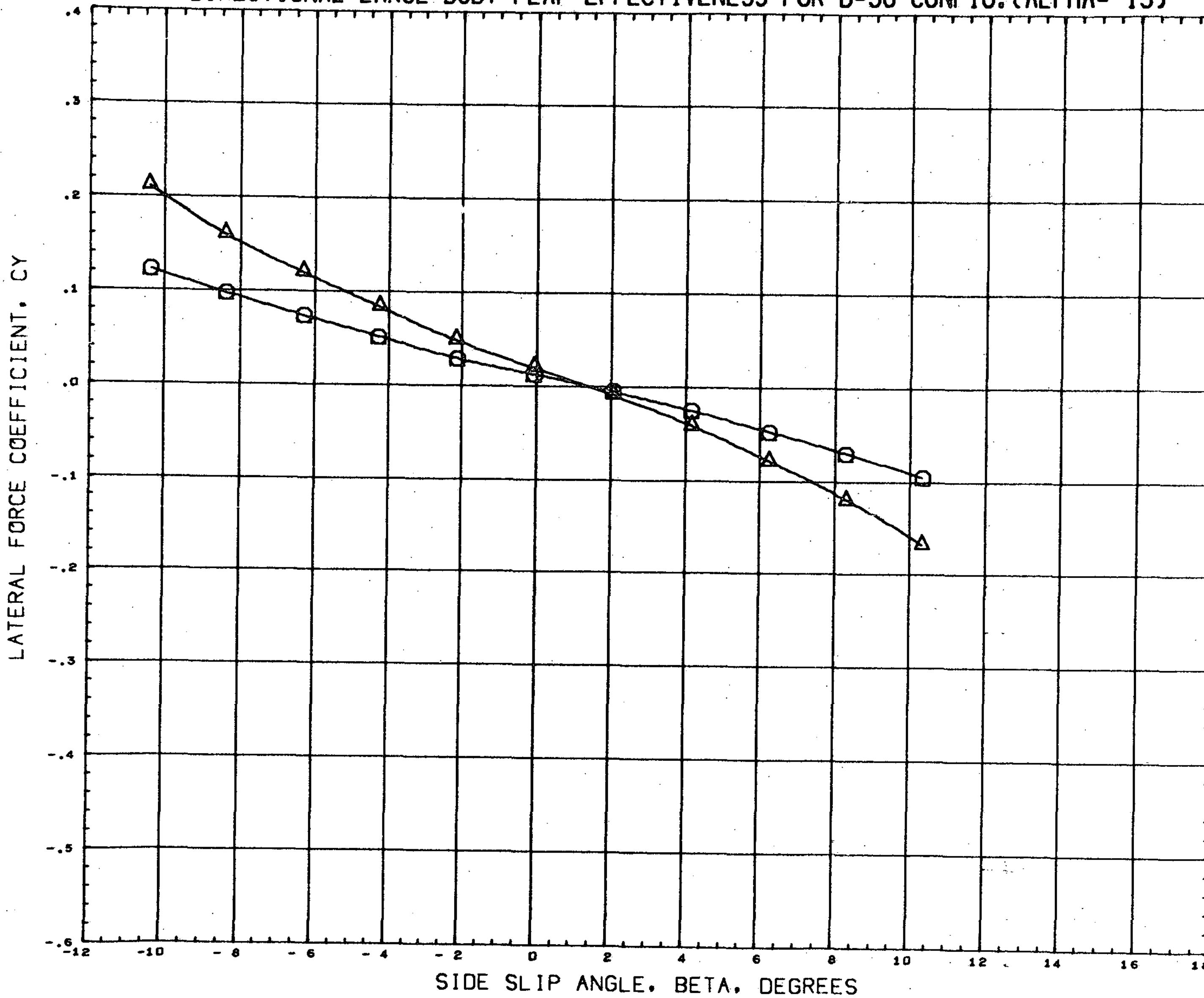
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(B35FCD)	△	MSFC TWT-493 GD/C B25W19C8F8	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.959

LATERAL-DIRECTIONAL LARGE BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 15)



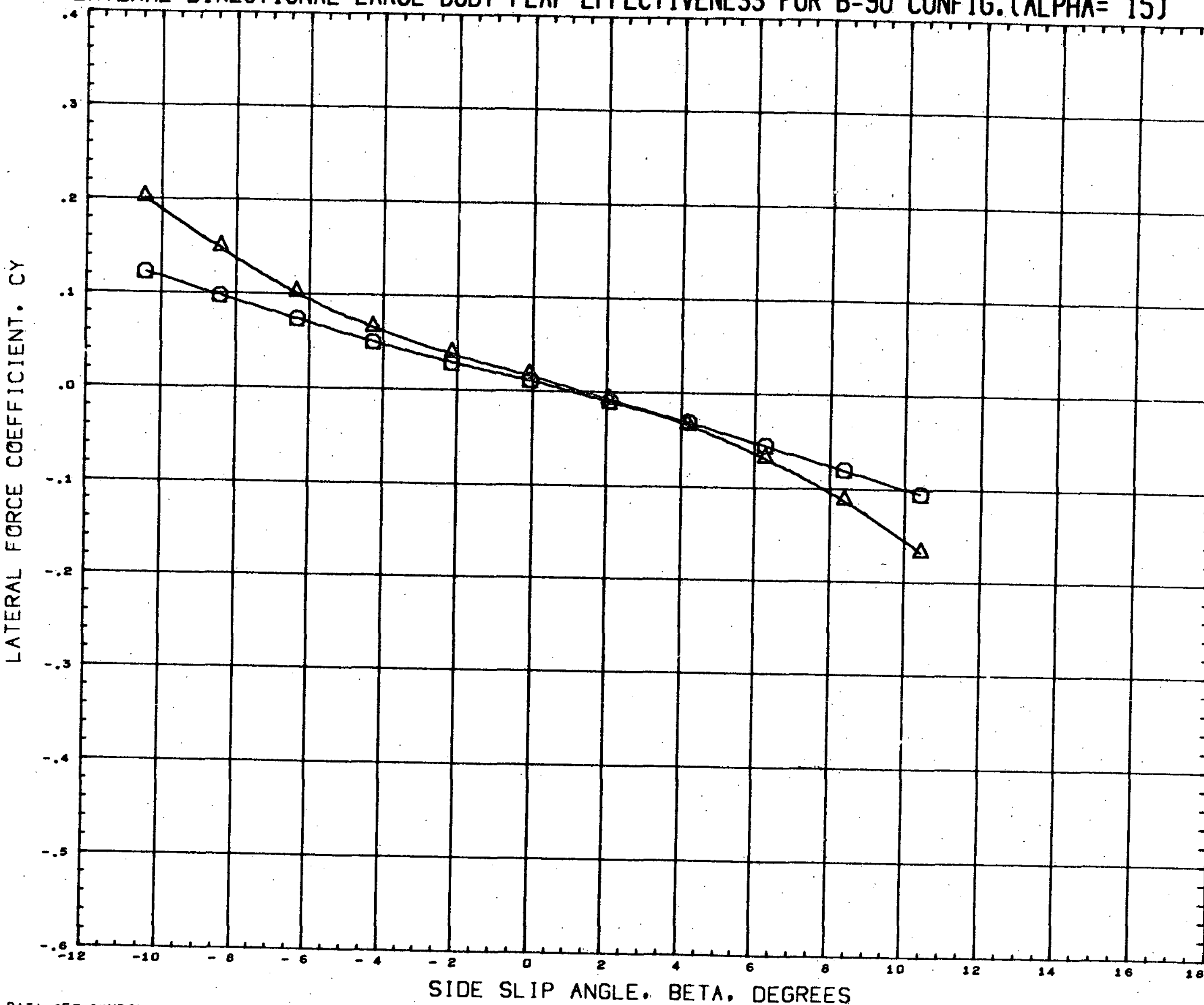
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(C350CC)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=DR=DF	15.000		0.000	0.000
(Z35FCE)	△	MSFC TWT-493 GD/C B25W19C8F8	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 0.992

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LARGE BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 15)

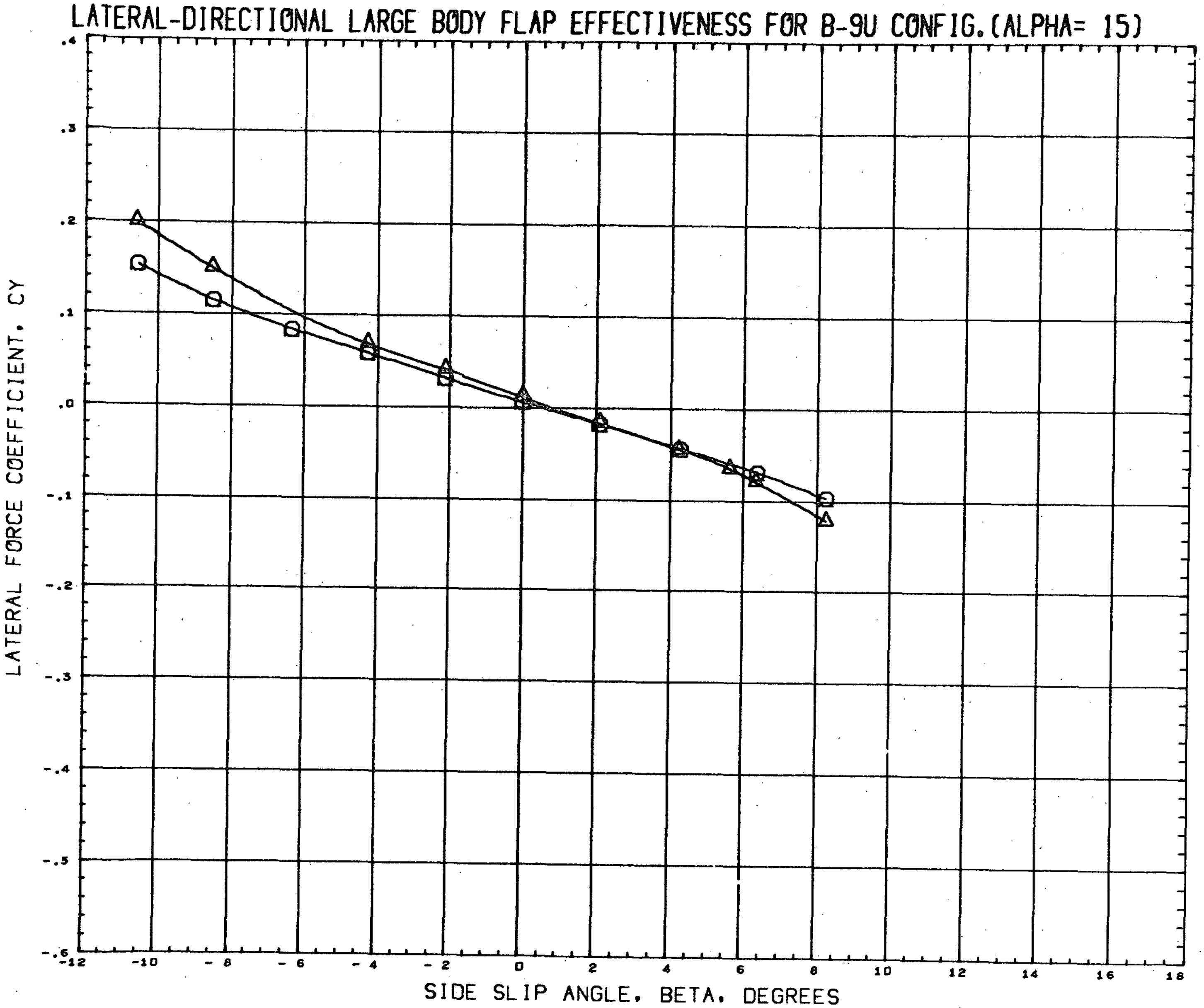


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(C35OCC)	O	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=OR=OF	15.000		0.000	0.000
(Z35FCE)	Δ	MSFC TWT-493 GD/C B25W19C8F8	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.192

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	



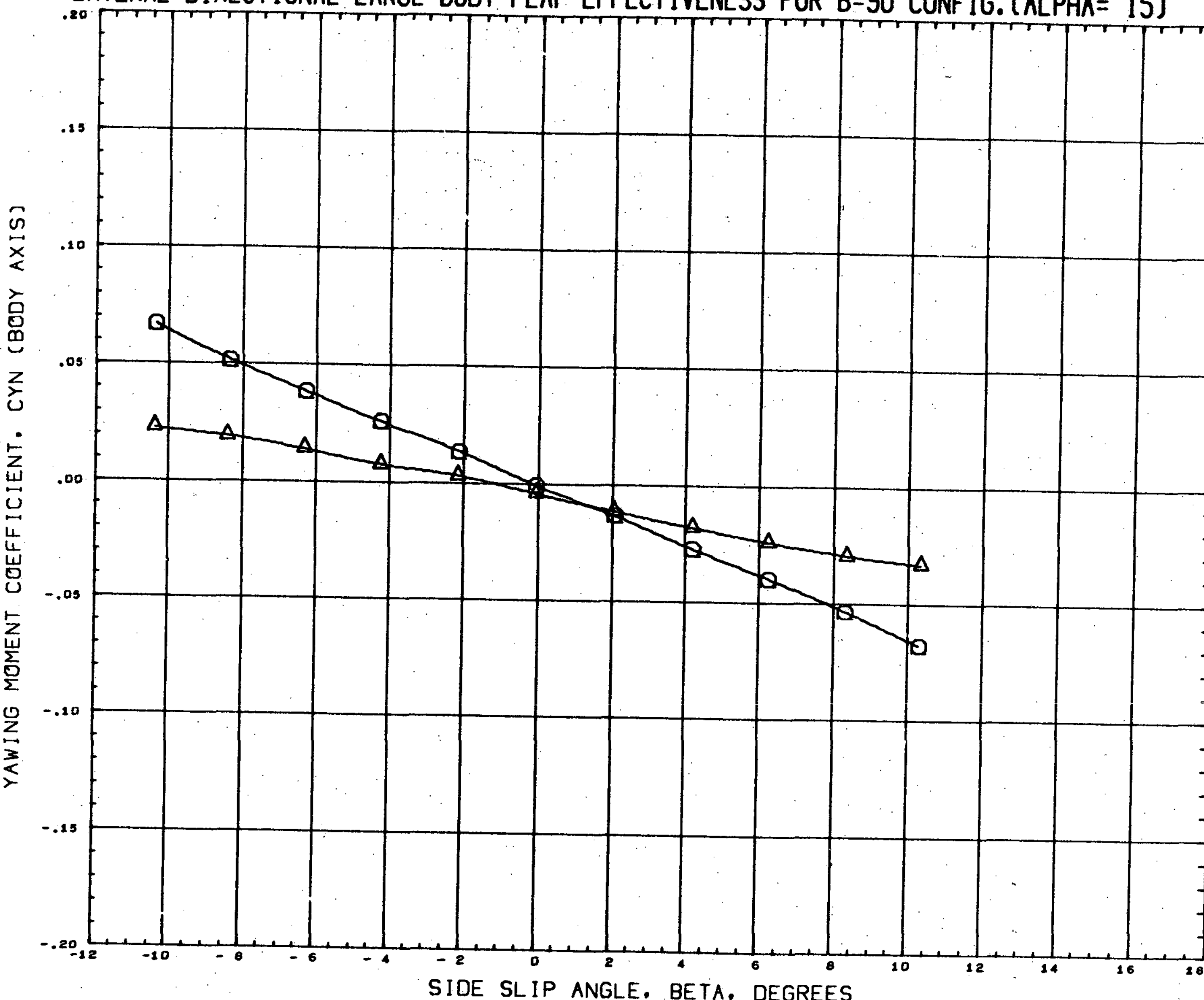
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(C35OCC)	O	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=OR=OF	15.000		0.000	0.000
(Z35FCE)	Δ	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.964

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LARGE BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 15)



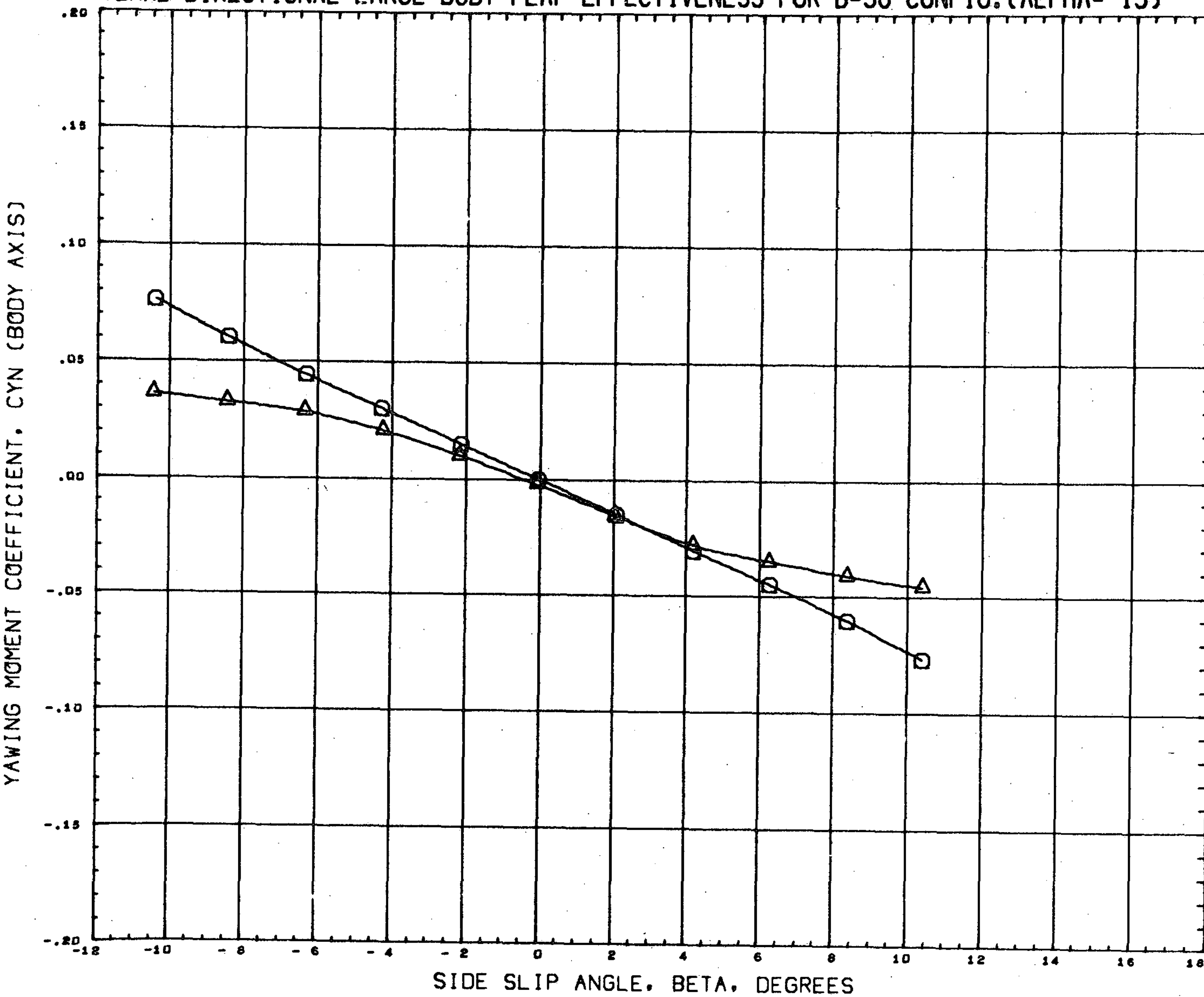
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(C350CC)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000		0.000	0.000
(Z35FCE)	△	MSFC TWT-493 GD/C B25W19C8F8	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 0.992

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LARGE BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 15)



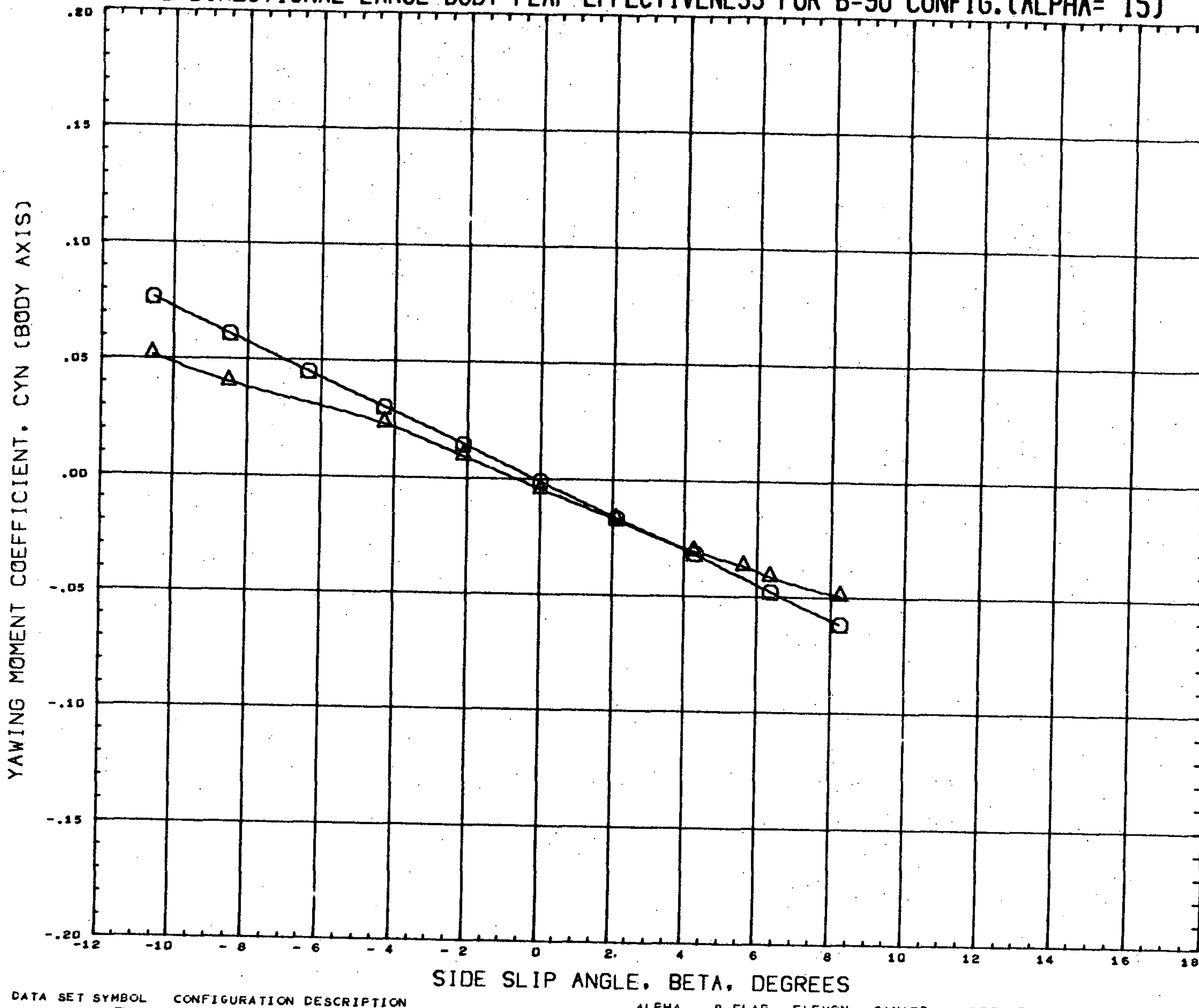
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(C35OCC)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=DR=DF	15.000		0.000	0.000
(Z35FCE)	△	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.192

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LARGE BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 15)



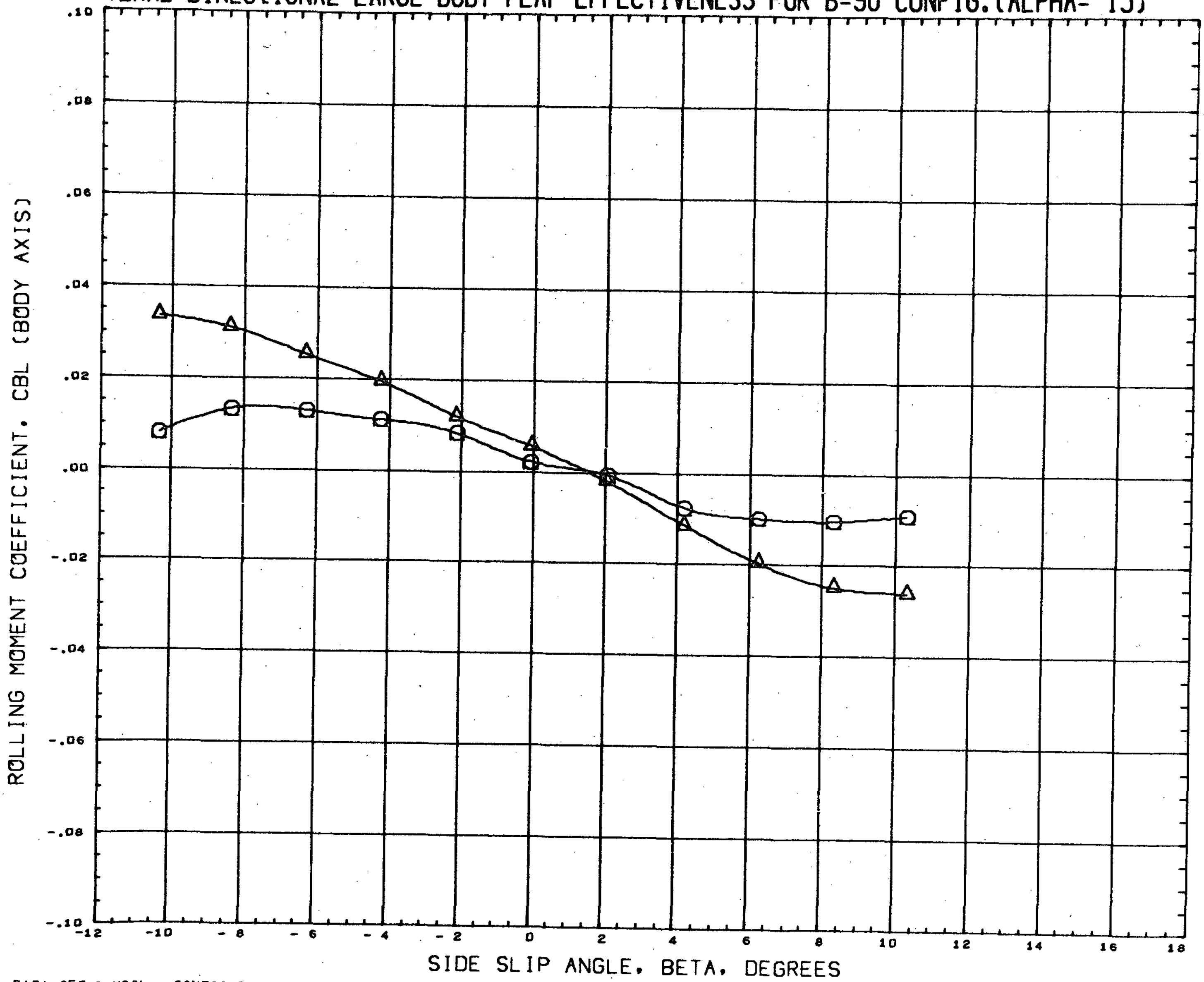
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(C350CC)	O	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000		0.000	0.000
(Z35FCE)	Δ	MSFC TWT-493 GD/C B25W19C8F8	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.964

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LARGE BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 15)



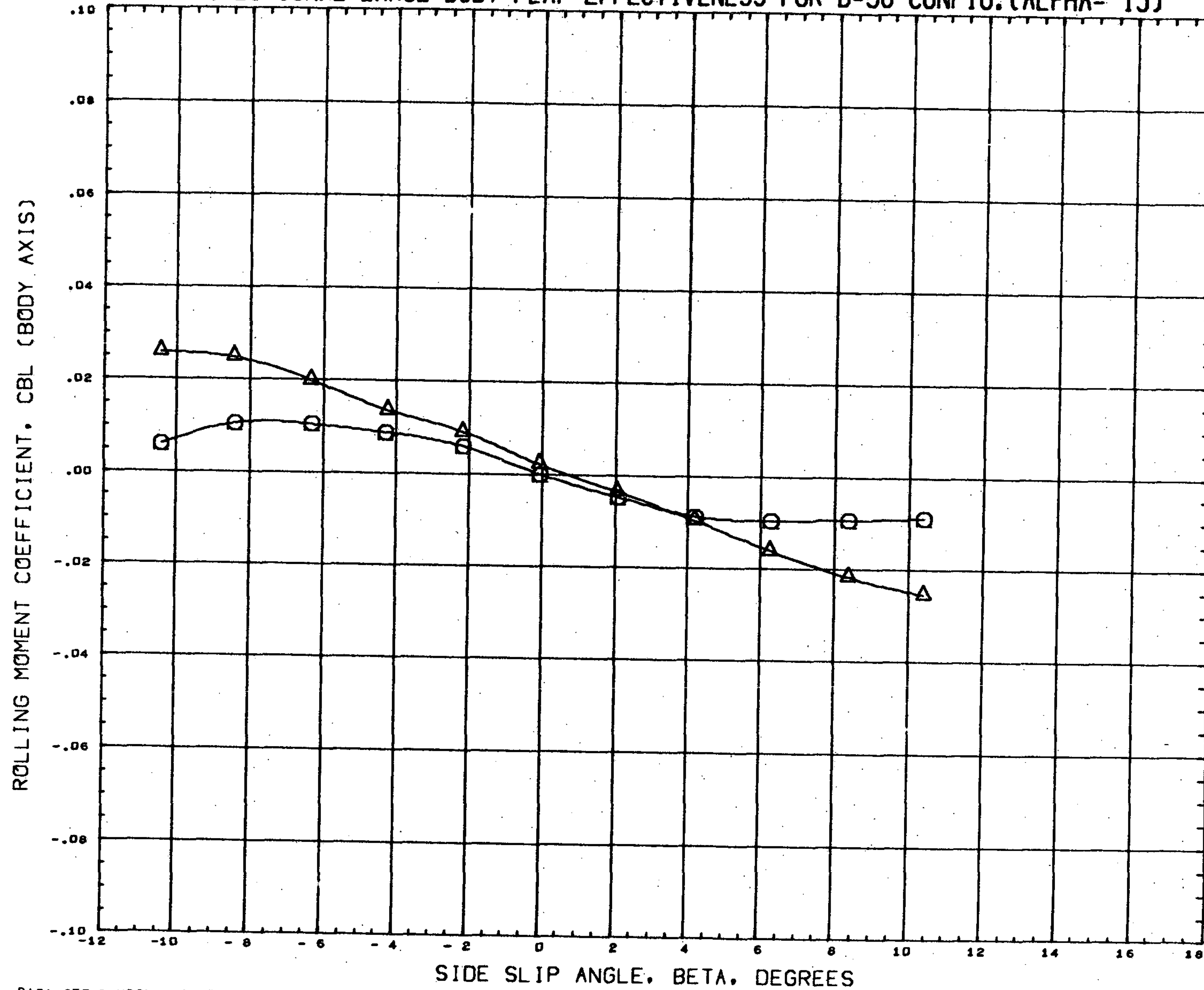
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(C350CC)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=0R=0F	15.000		0.000	0.000
(Z35FCE)	△	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 0.992

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LARGE BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 15)

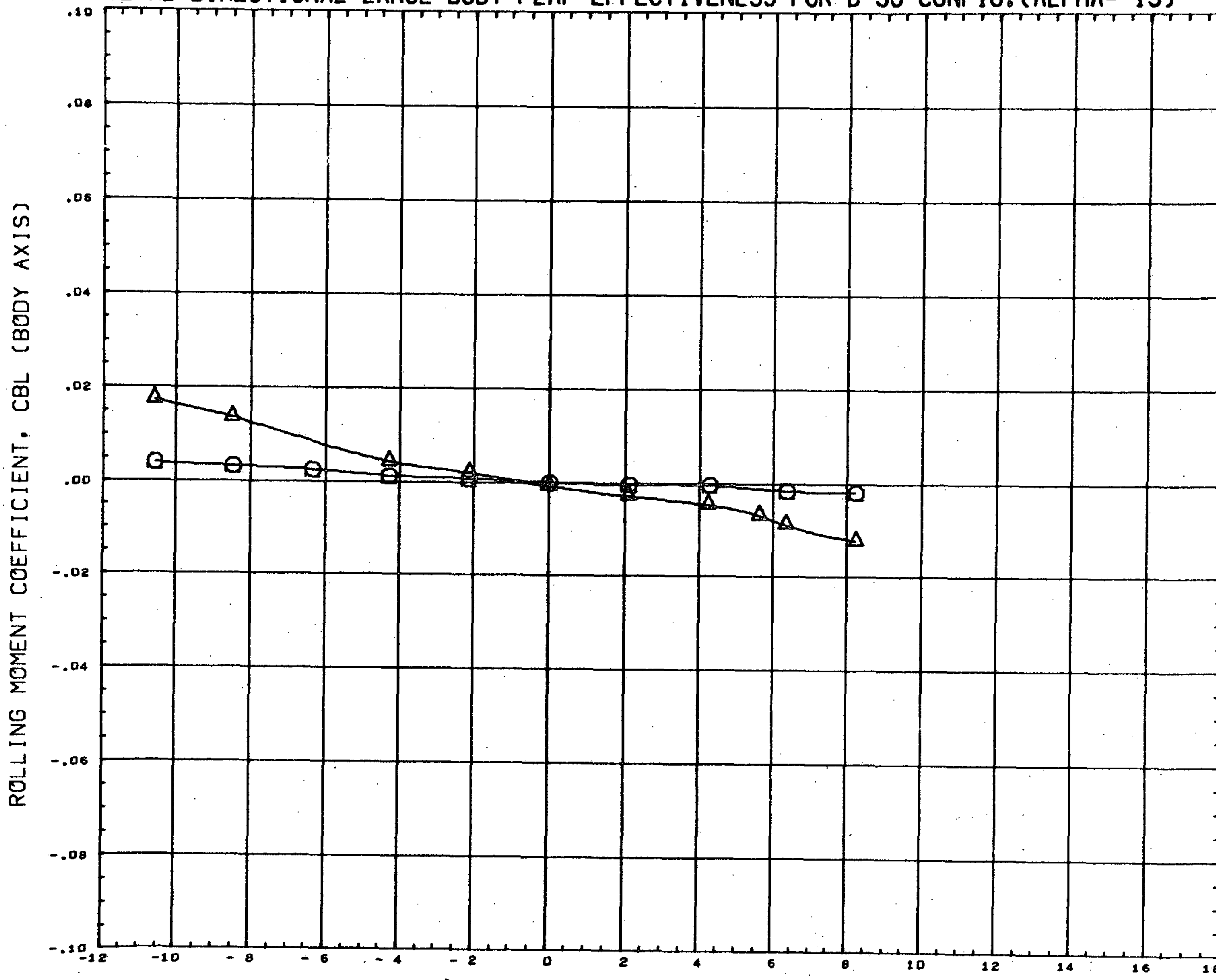


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(C35OCC)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=0R=0F	15.000		0.000	0.000
(Z35FCE)	△	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.192

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LARGE BODY FLAP EFFECTIVENESS FOR B-9U CONFIG.(ALPHA= 15)

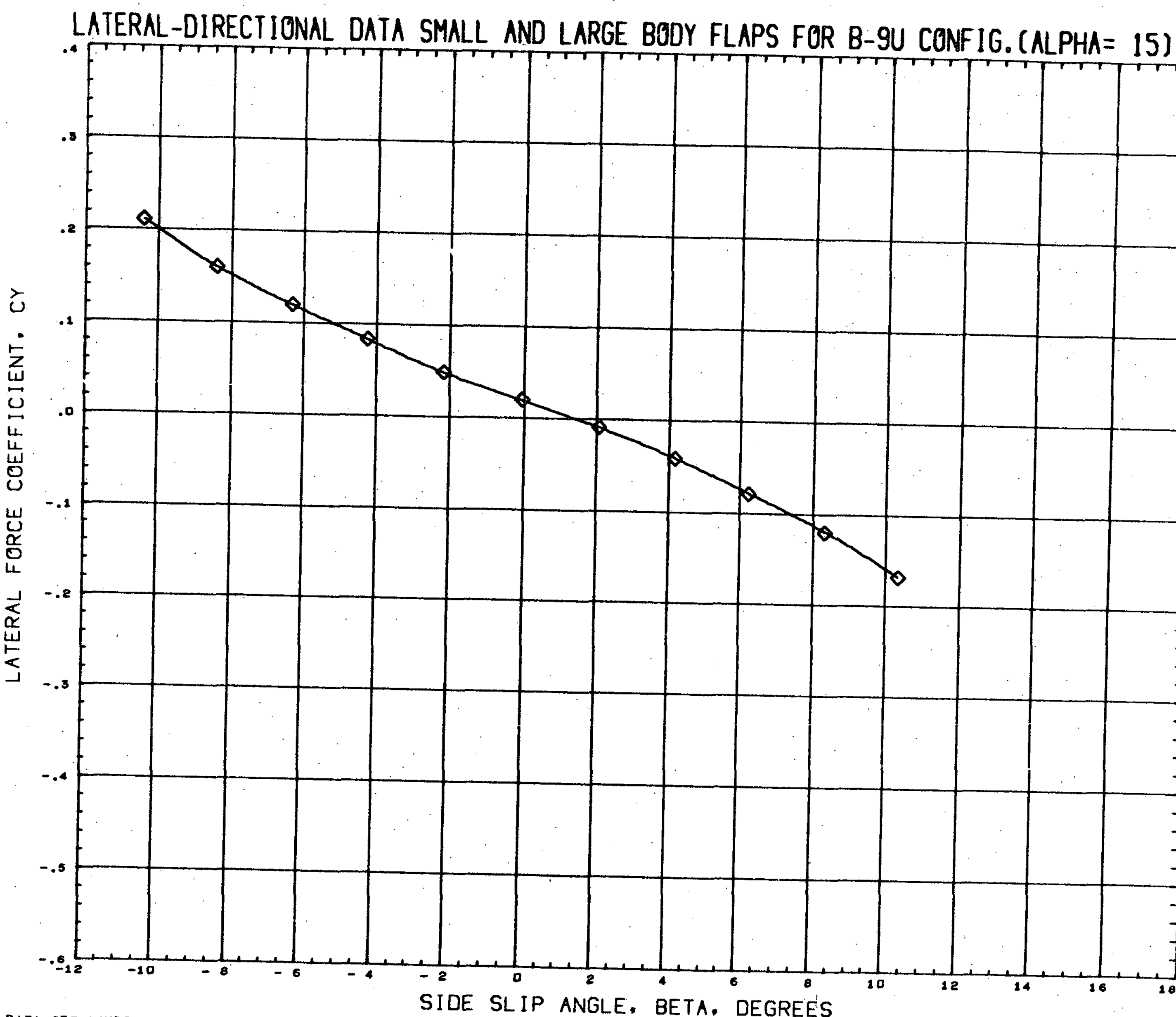


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(C350CC)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=OR=OF	15.000		0.000	0.000
(Z35FCE)	△	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.964

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	



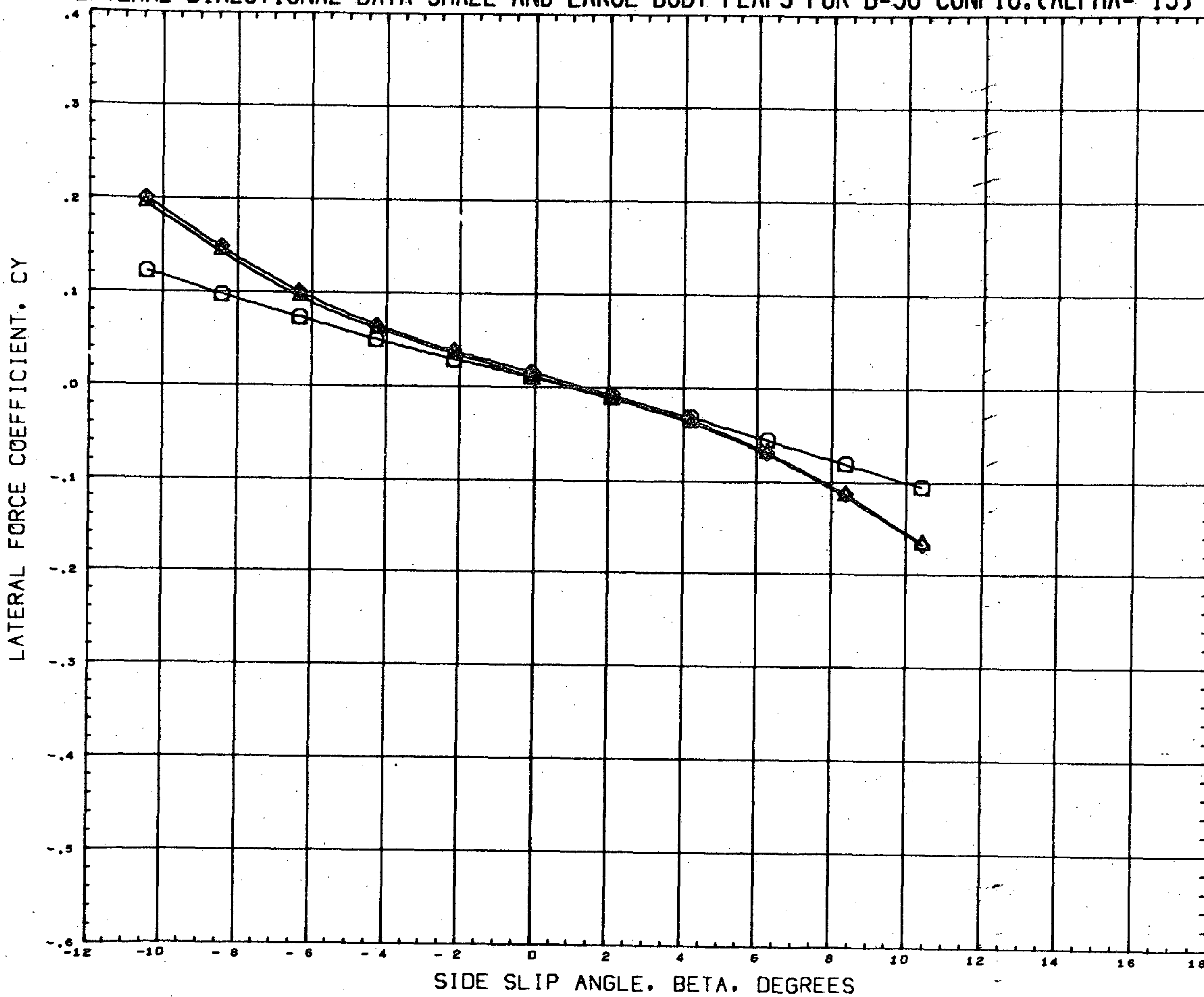
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B-FLAP	ELEVON	CANARD
(D35OCC)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000		0.000	0.000
(B35FCB)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	40.000	0.000	0.000
(Z35FCE)	◇	MSFC TWT-493 GD/C B25W19C8F8 ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 15)



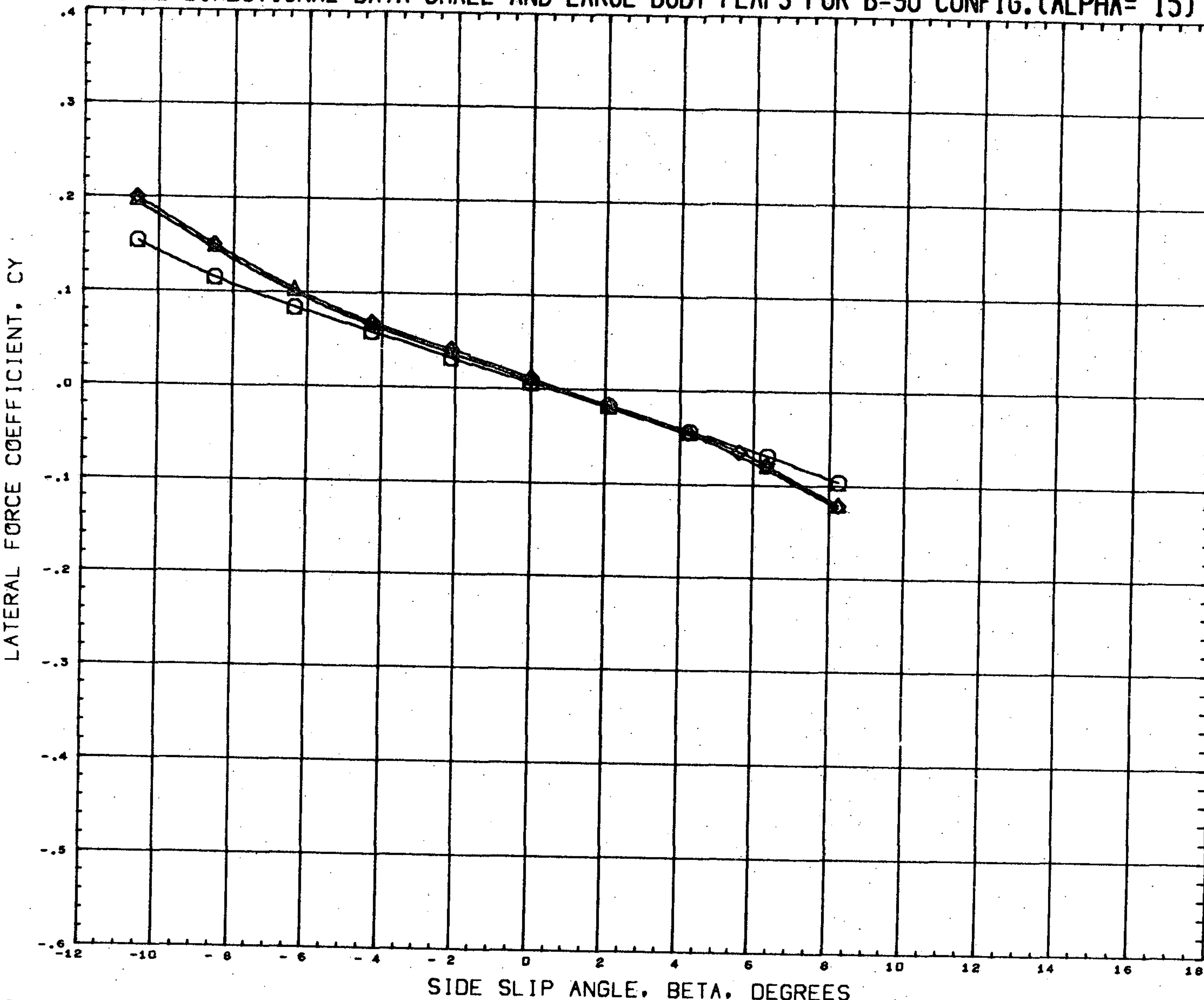
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(D35OCC)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=0R=0F	15.000		0.000	0.000
(B35FCB)	△	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000
(Z35FCE)	◇	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.192

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 15)

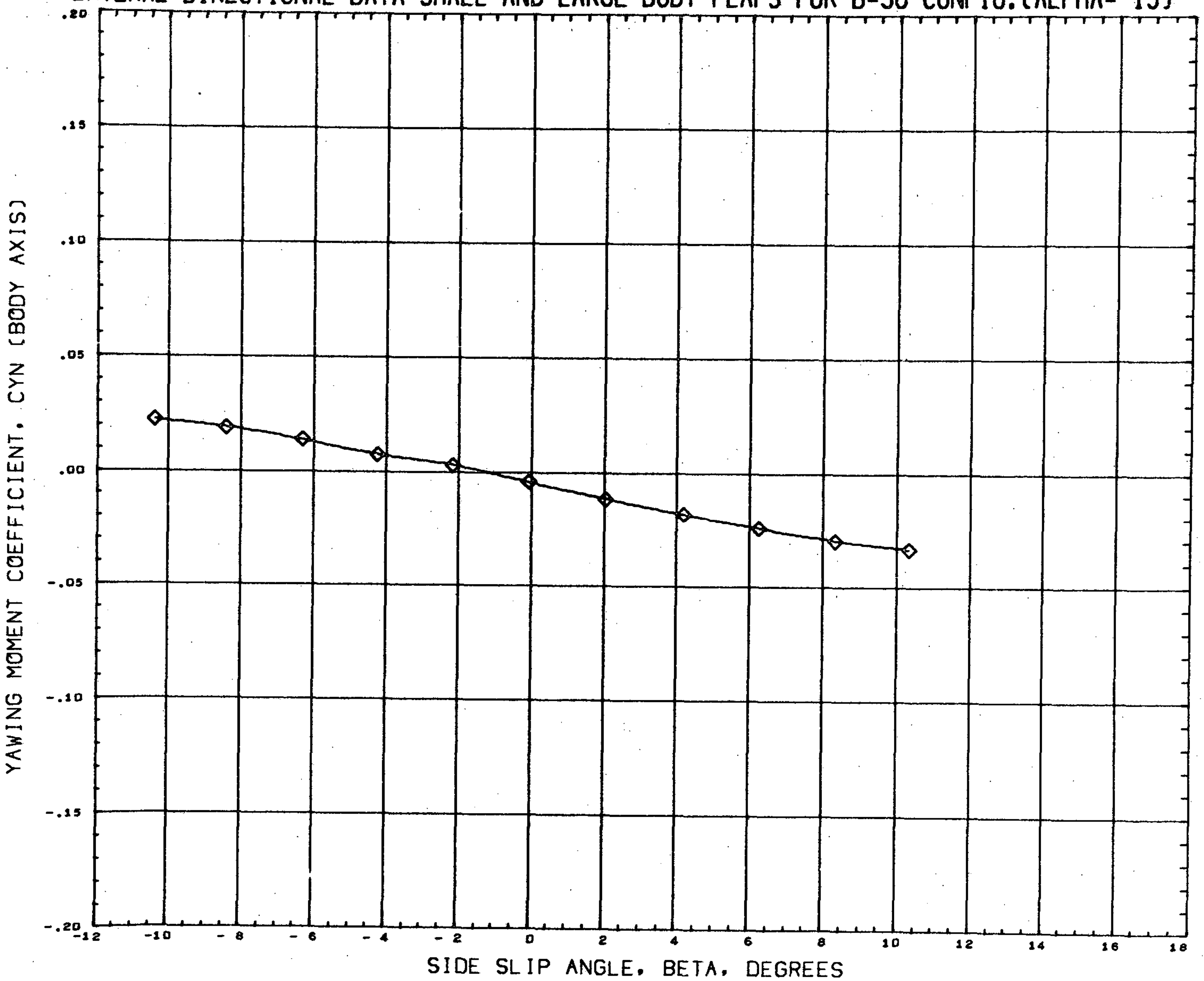


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(D35OCC)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=0R=0F	15.000		0.000	0.000
(B35FCB)	△	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000
(Z35FCE)	◇	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.964

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 15)



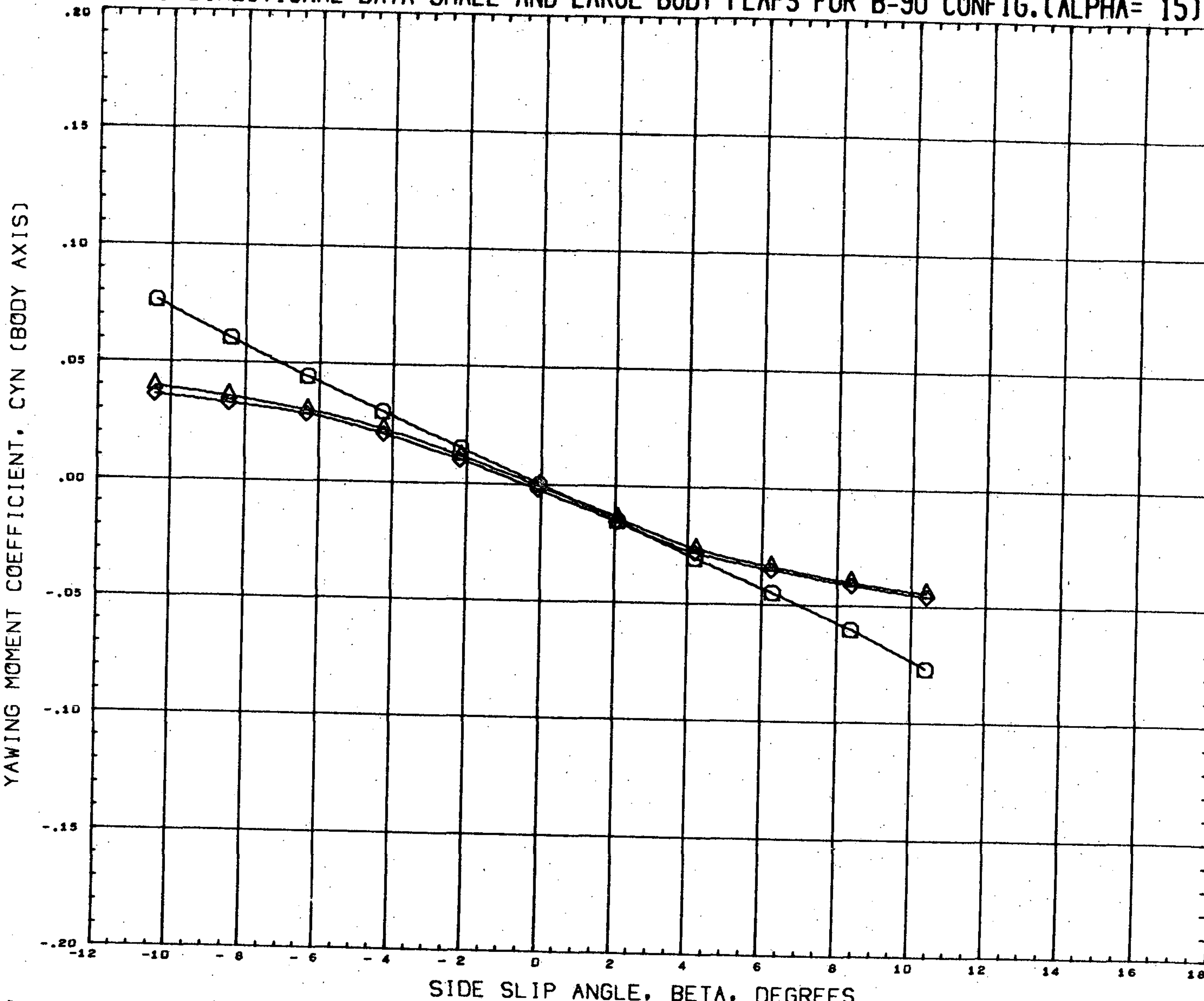
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B-FLAP	ELEVON	CANARD
(D35OCC)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000		0.000	0.000
(B35FCB)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	40.000	0.000	0.000
(Z35FCE)	◇	MSFC TWT-493 GD/C B25W19C8F8 ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 15)



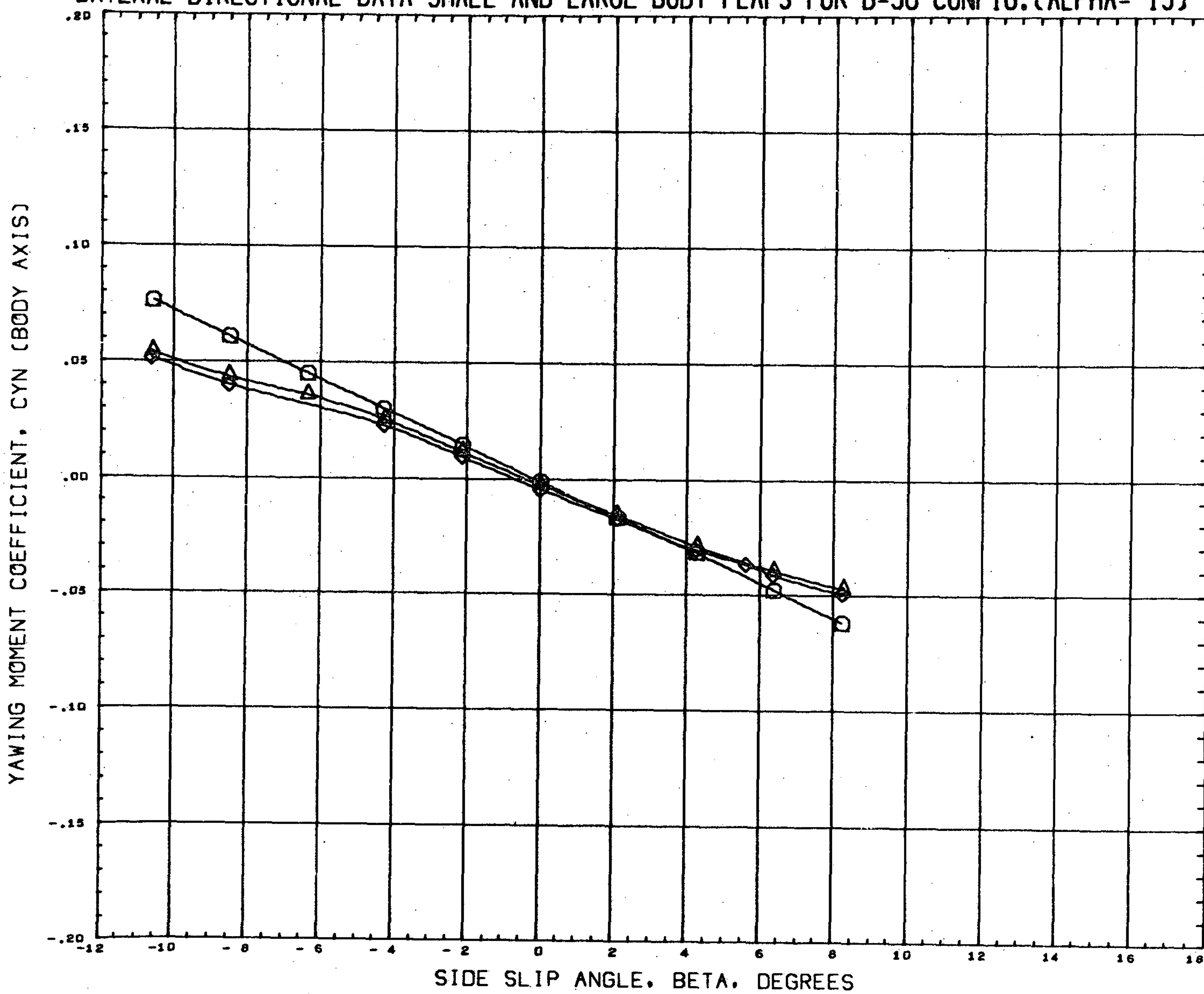
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(D35OCC)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=OR=OF	15.000		0.000	0.000
(B35FCB)	△	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000
(Z35FCE)	◇	MSFC TWT-493 GD/C B25W19C8F8	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.192

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 15)



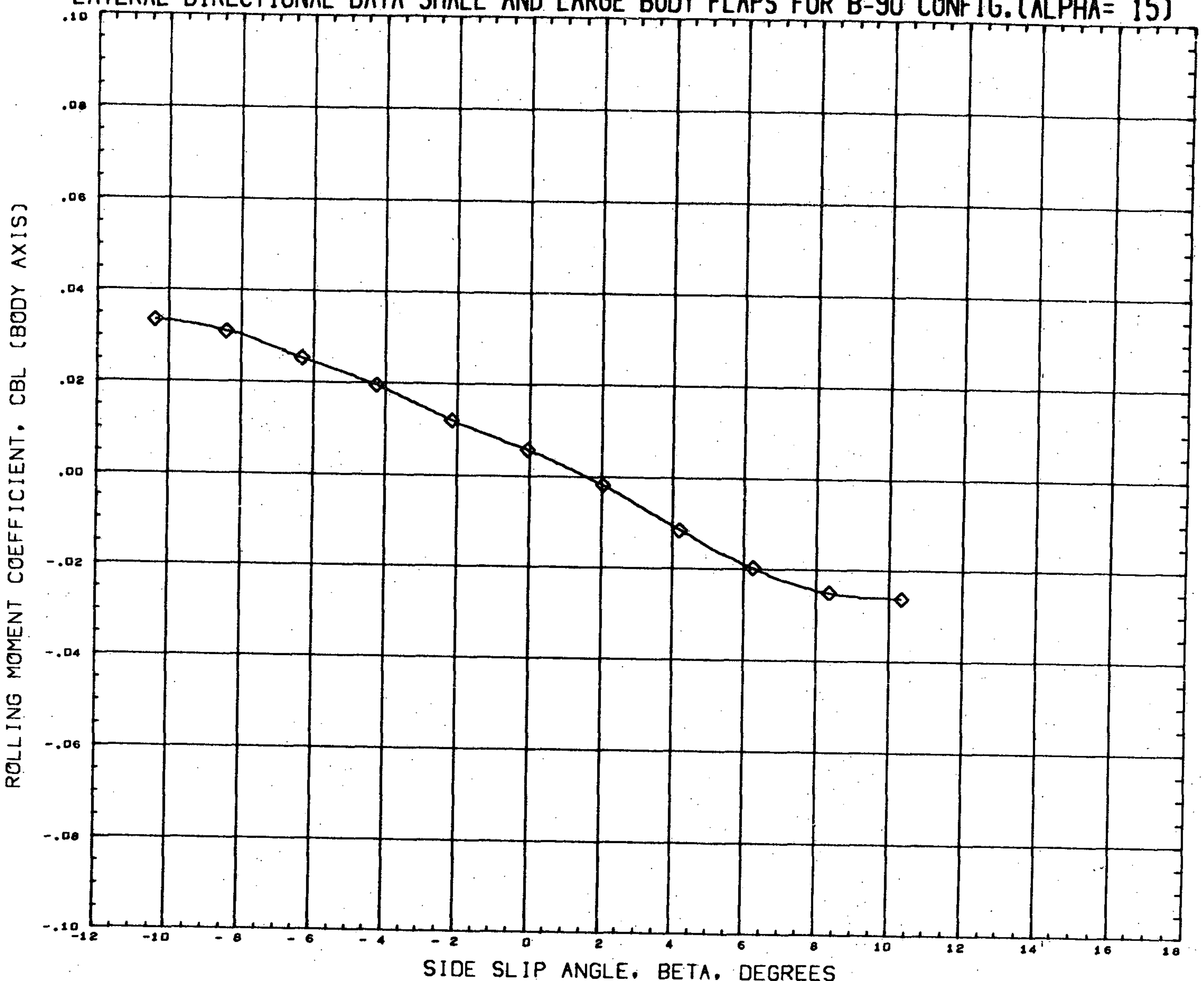
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(D350CC)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=15 C=0R=0F	15.000		0.000	0.000
(B35FCB)	△	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000
(Z35FCE)	◇	MSFC TWT-493 GD/C B25W19C8F8	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.964

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 15)



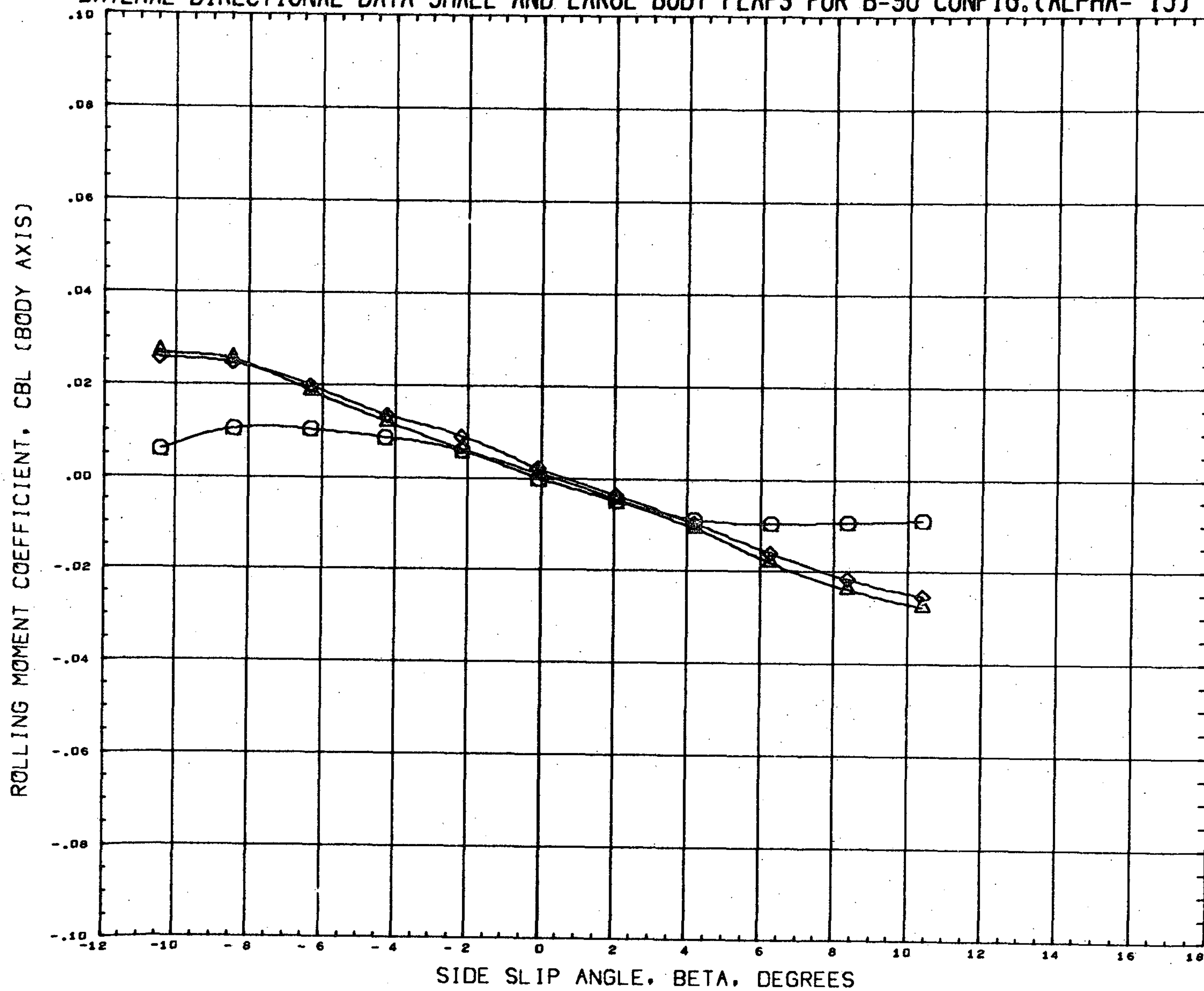
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B-FLAP	ELEVON	CANARD
(D35OCC)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000		0.000	0.000
(B35FCB)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	40.000	0.000	0.000
(Z35FCE)	◇	MSFC TWT-493 GD/C B25W19C8F8 ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 15)



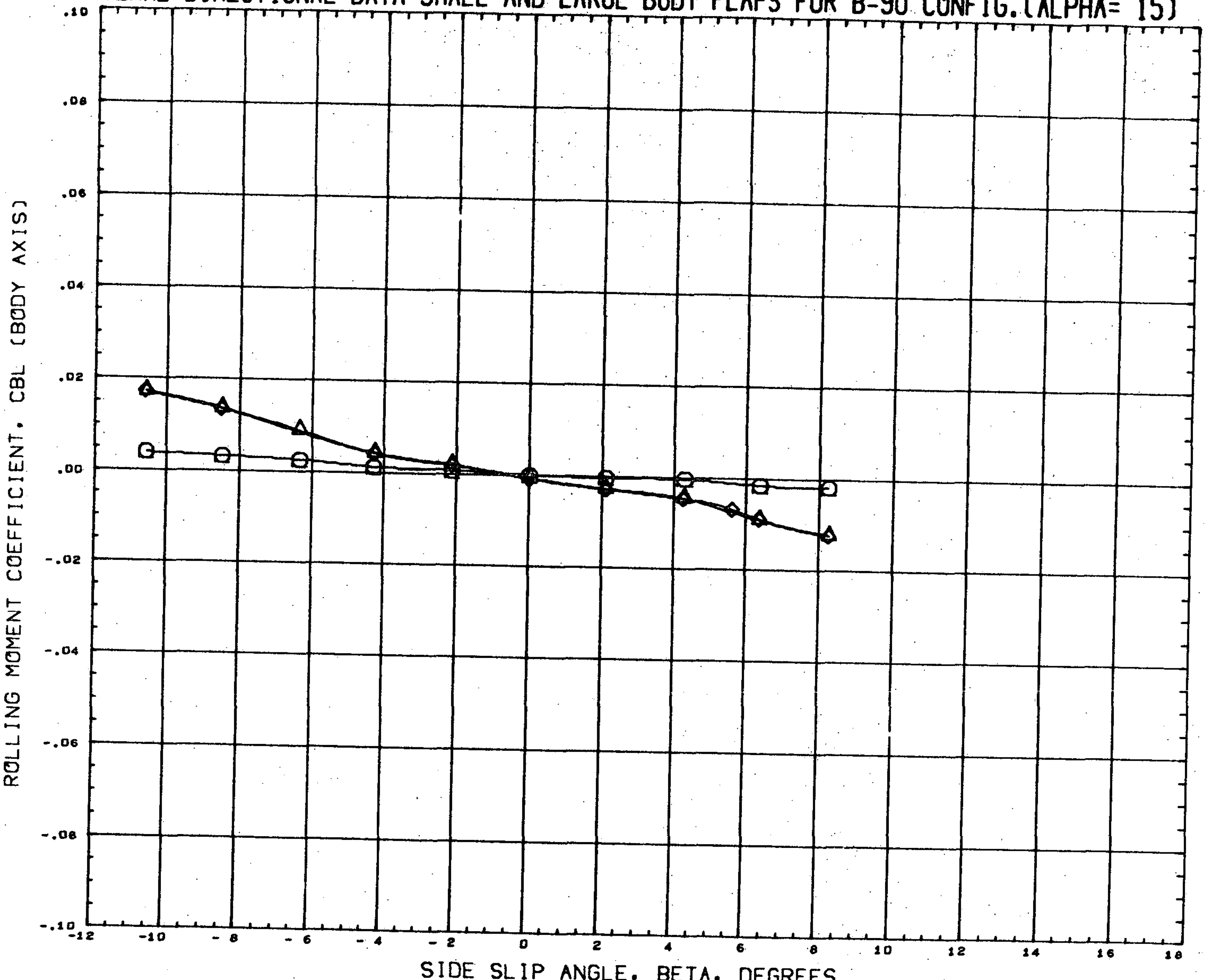
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(D35OCC)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=DR=DF	15.000		0.000	0.000
(B35FCB)	△	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000
(Z35FCE)	◇	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.192

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 15)



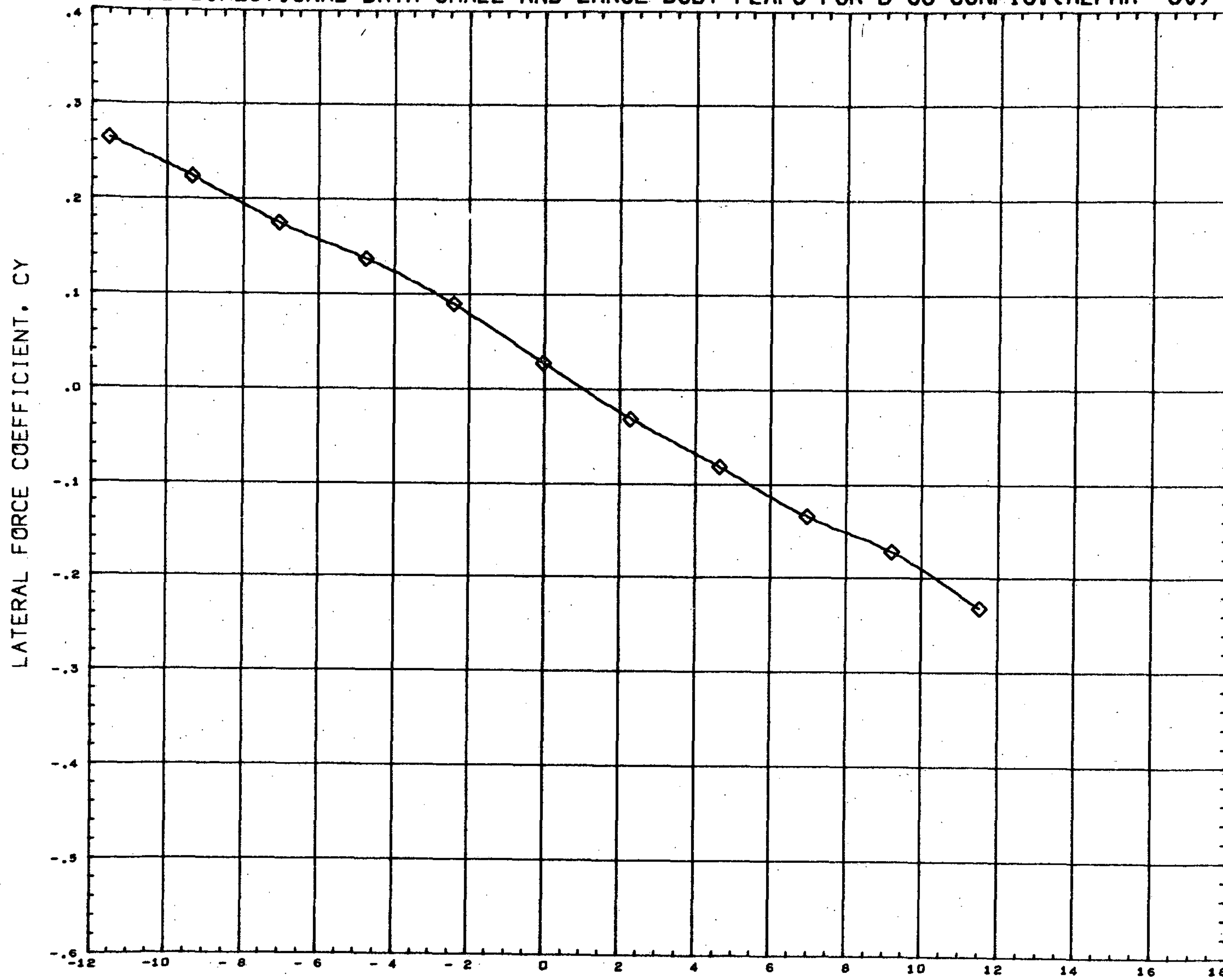
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(D35OCC)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=15 C=0R=0F	15.000		0.000	0.000
(B35FCB)	△	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000
(Z35FCE)	◇	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=15 C=0 F=40	15.000	40.000	0.000	0.000

MACH 1.964

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 30)



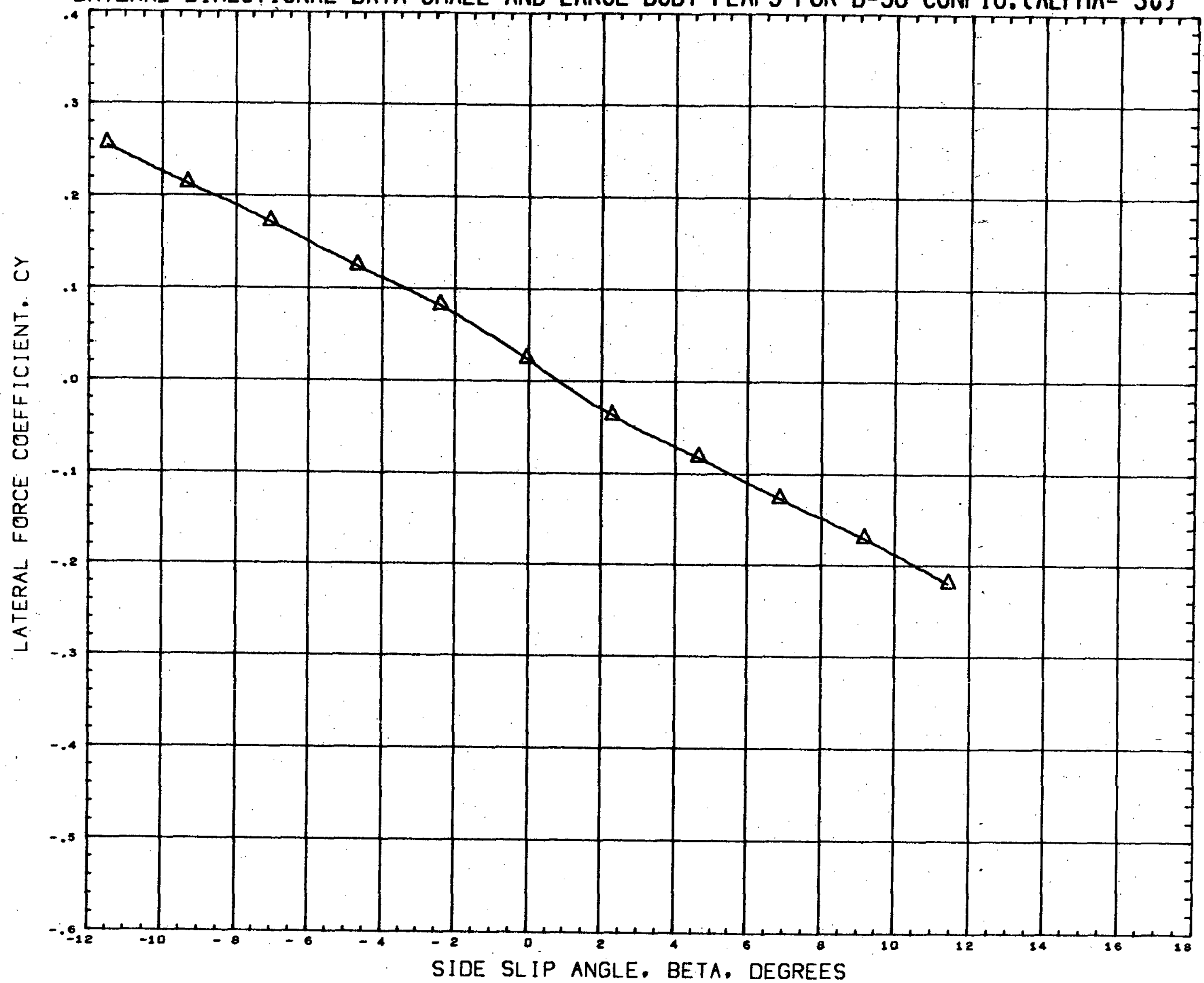
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	30.000		0.000	0.000
(A35FCA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	30.000	40.000	0.000	0.000
(A35FCD)	◇	MSFC TWT-493 GD/C B25W19C8F8 ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.947

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 30)

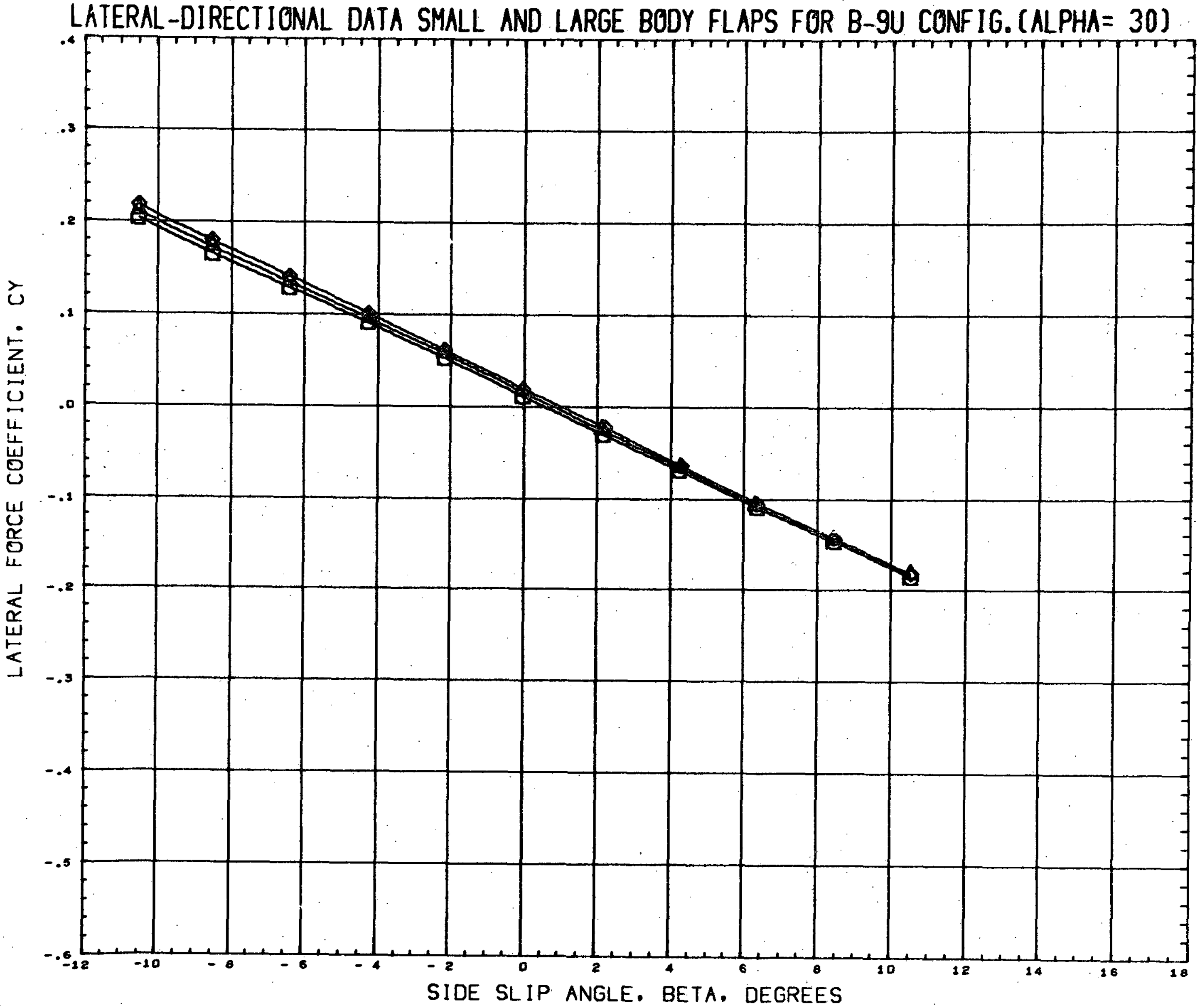


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C B25W19C8F7 ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCD)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	30.000	40.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.972



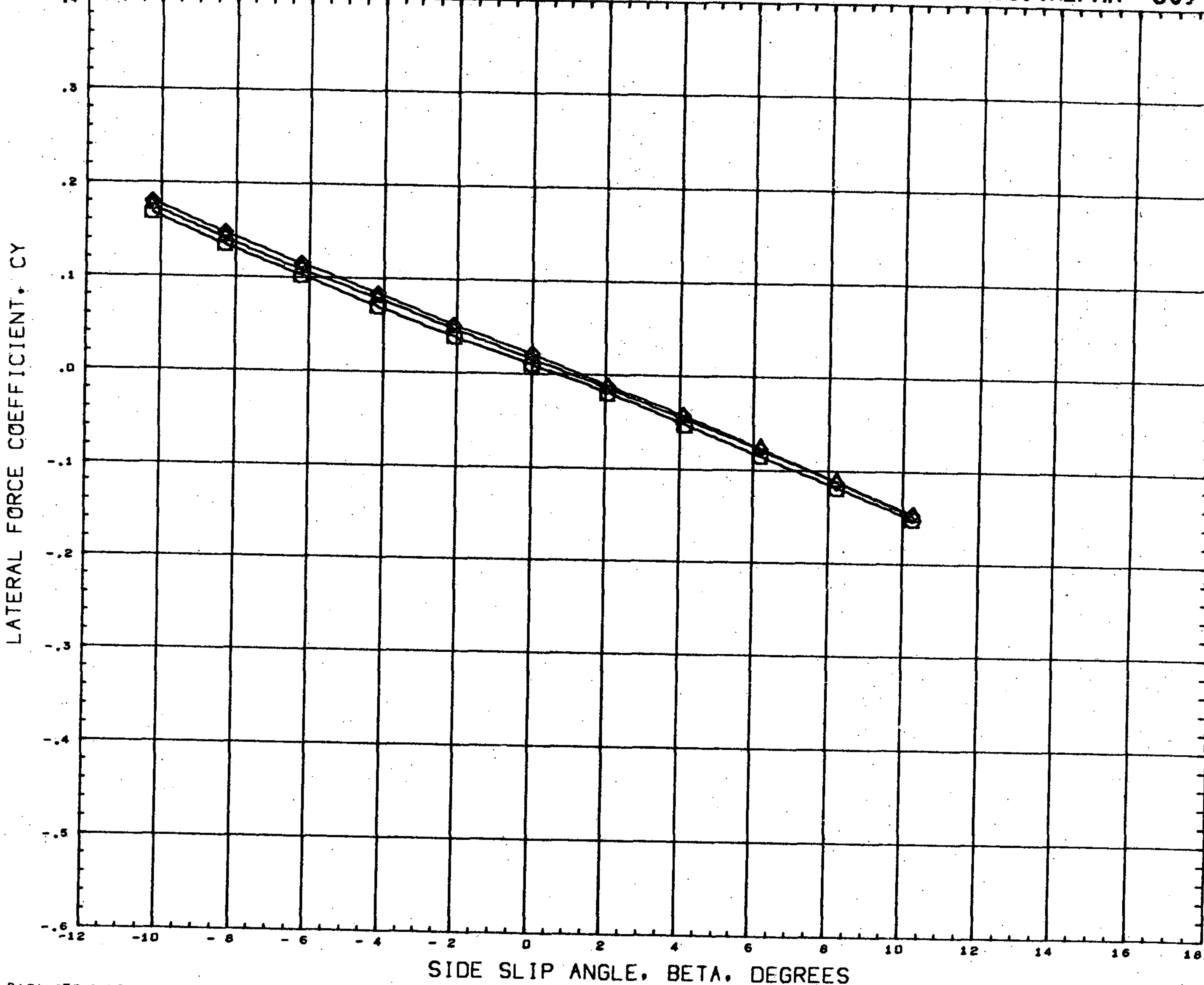
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCD)	◇	MSFC TWT-493 GD/C B25W19C8F8	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 30)

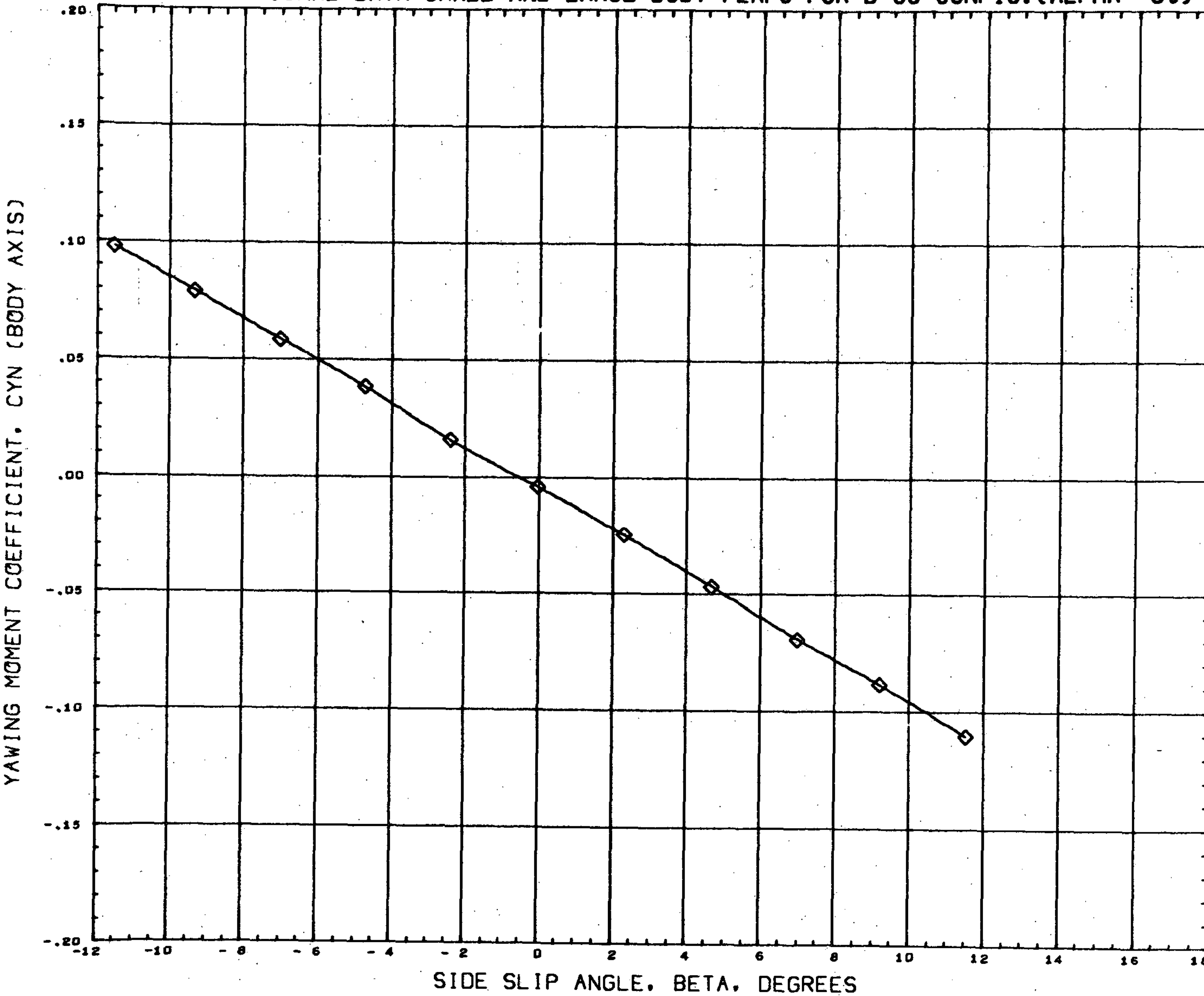


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(B350CA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCD)	◇	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000

MACH 4.959

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 30)

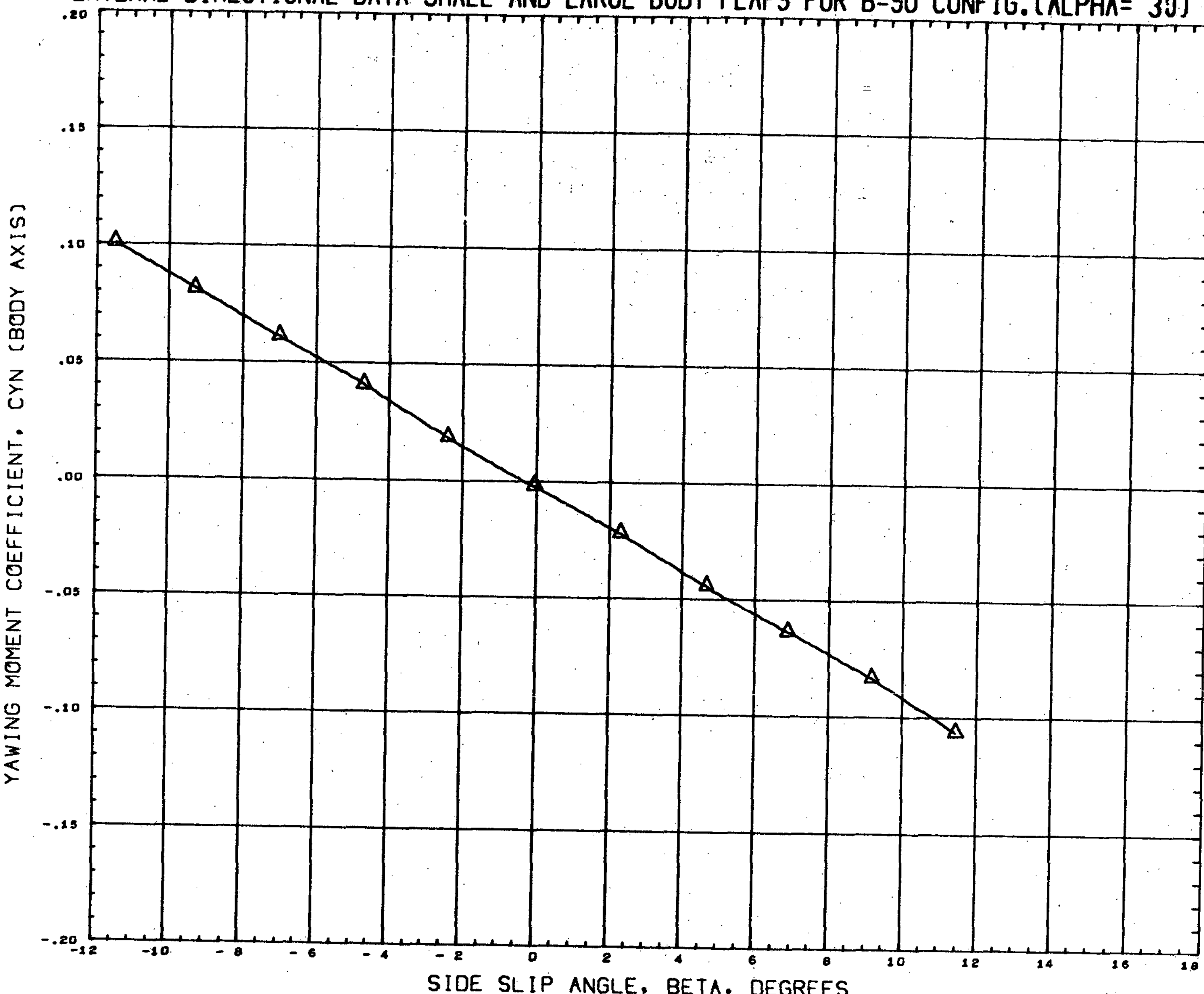


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B-FLAP	ELEVON	CANARD
(B350CA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	30.000		0.000	0.000
(A35FCA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	30.000	40.000	0.000	0.000
(A35FCD)	◇	MSFC TWT-493 GD/C B25W19C8F8 ALFHA=30 C=0 F=40	30.000	40.000	0.000	0.000

MACH 1.947

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 30)

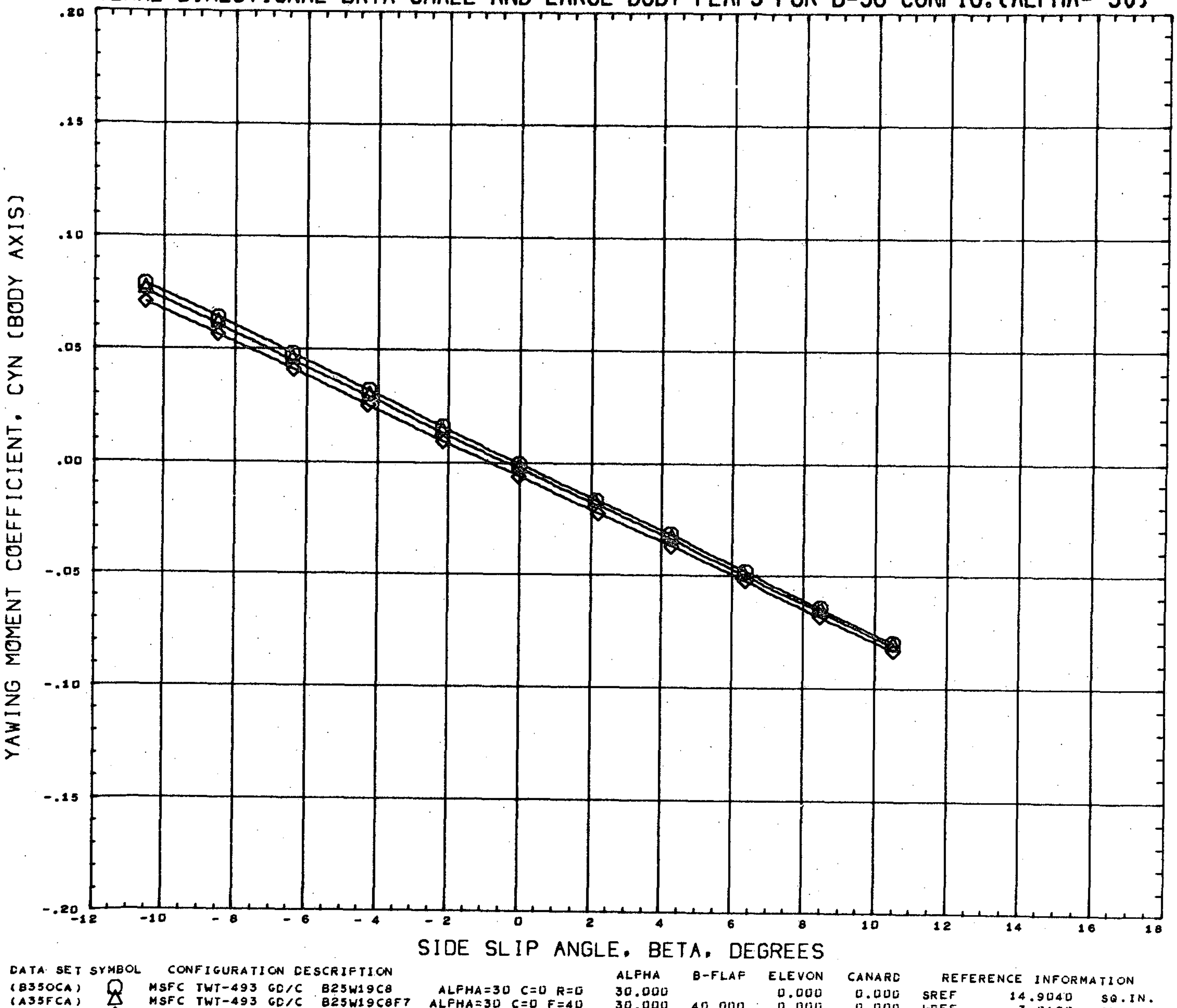


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C B25W19C8F7 ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCD)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	30.000	40.000	0.000	0.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.972

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 30)



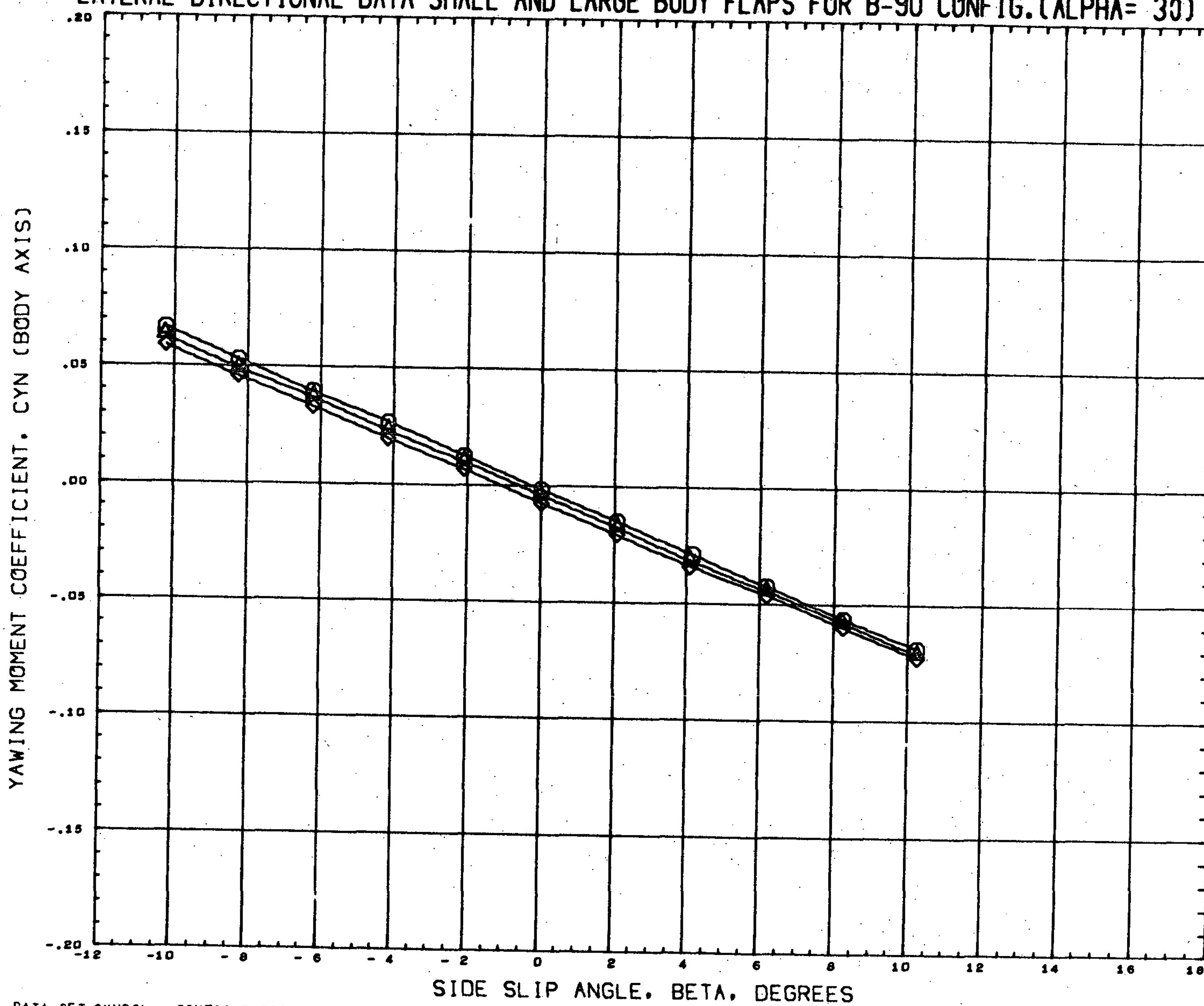
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCD)	◇	MSFC TWT-493 GD/C B25W19C8F8	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 30)



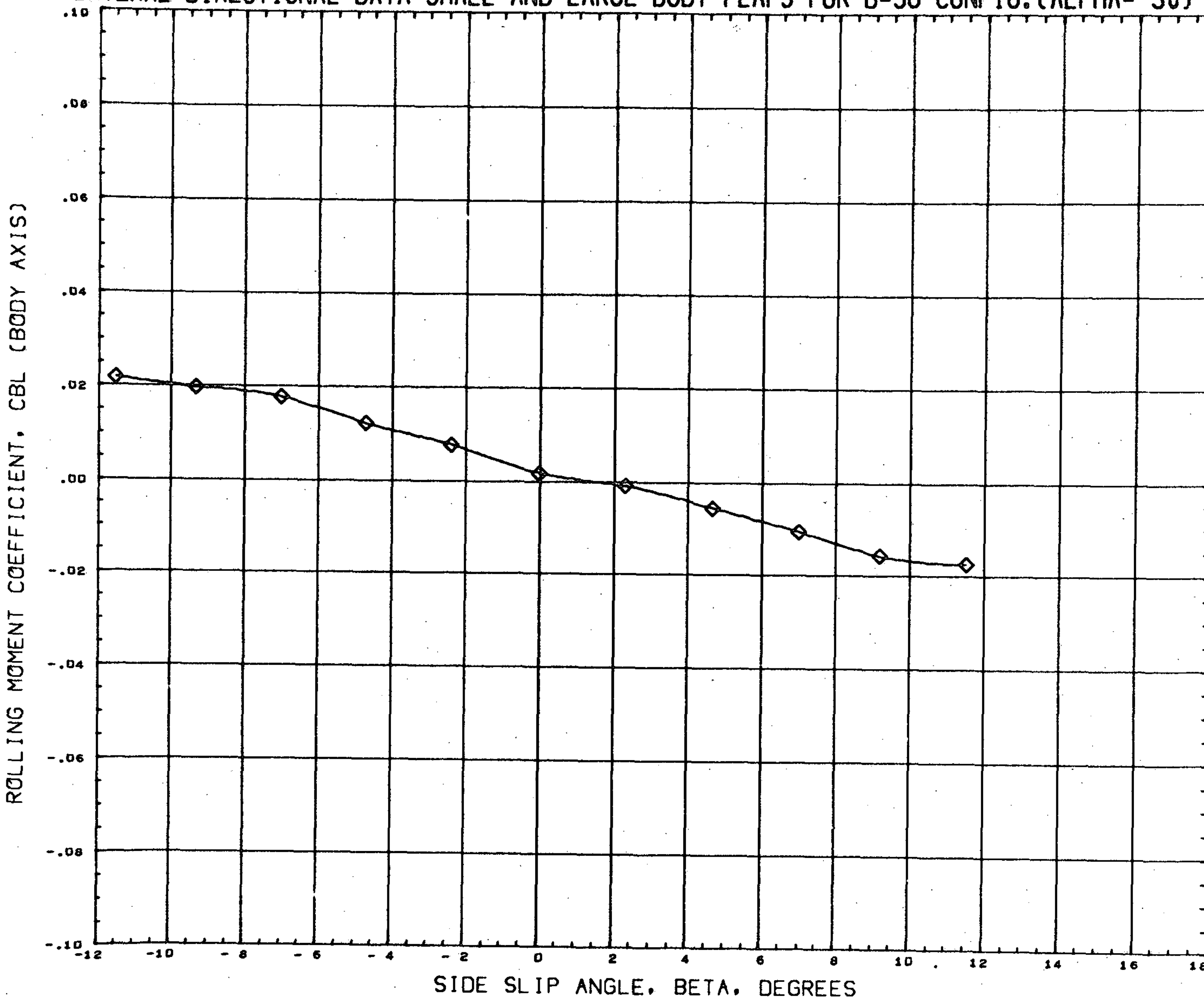
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(B350CA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCD)	◇	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=30 C=0 F=40	30.000	40.000	0 000	0.000

MACH 4.959

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 30)



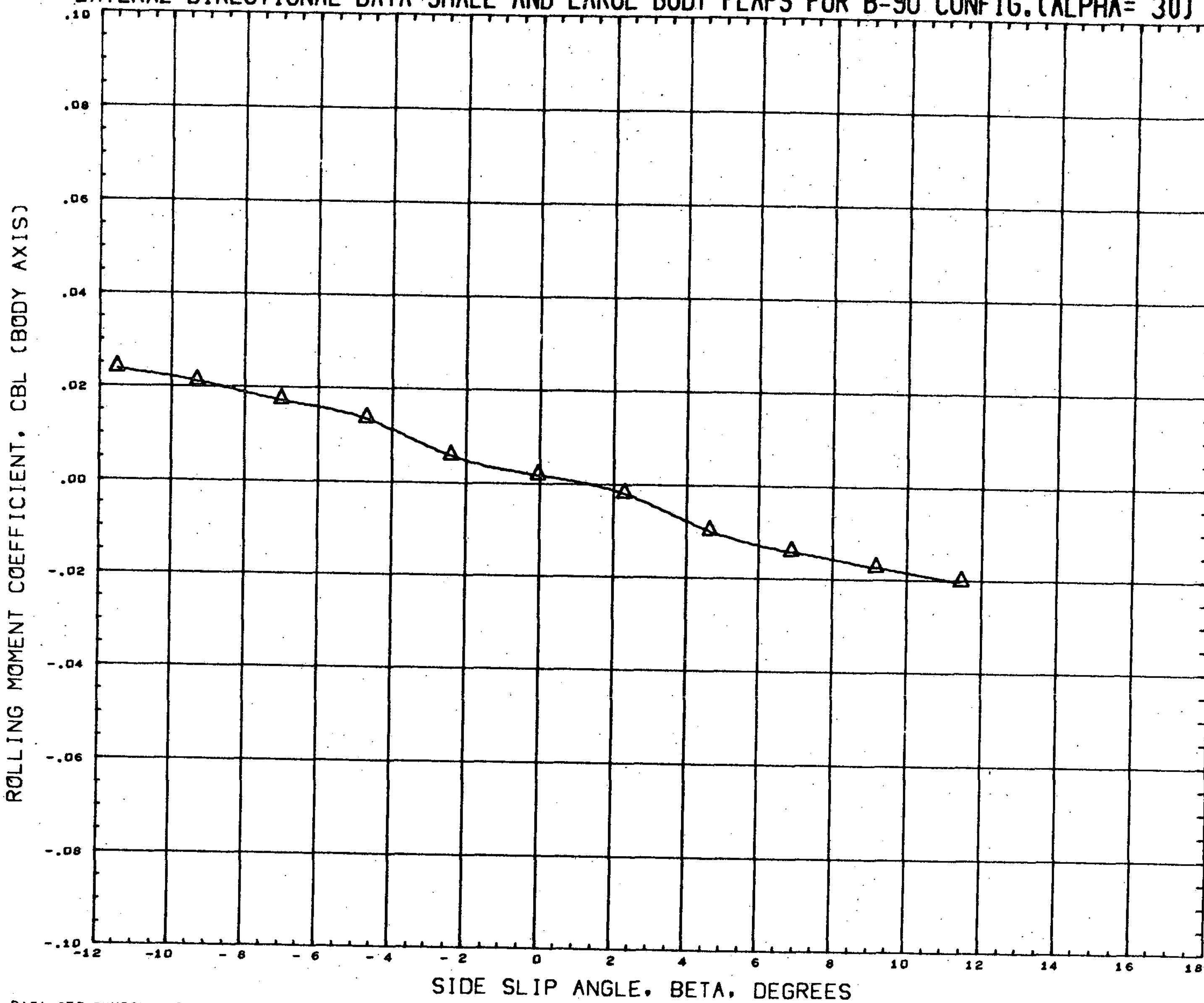
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	30.000		0.000	0.000
(A35FCA)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	30.000	40.000	0.000	0.000
(A35FCD)	◇	MSFC TWT-493 GD/C B25W19C8F8 ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000

MACH 1.947

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 30)



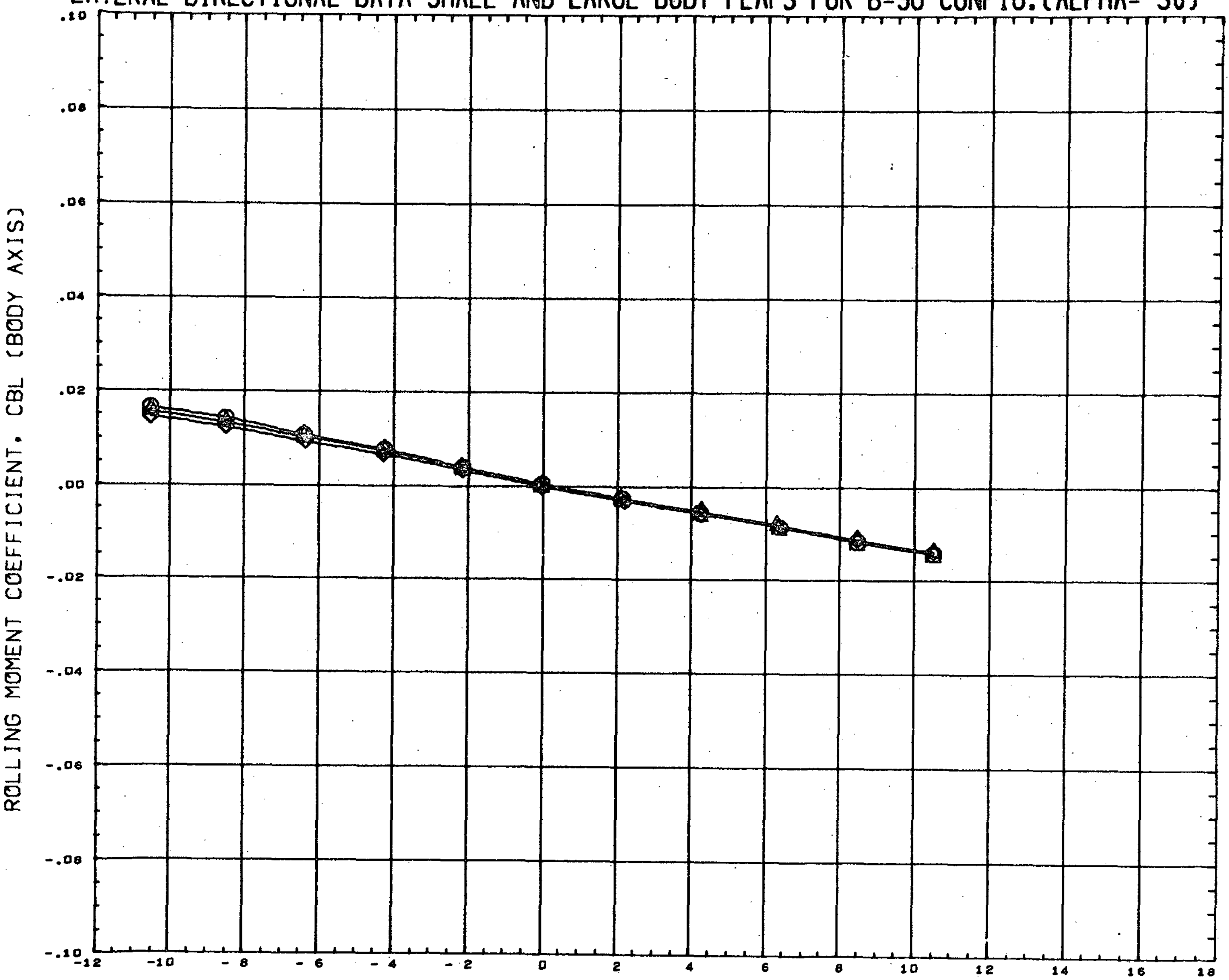
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C B25W19C8F7 ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCD)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	30.000	40.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.972

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 30)



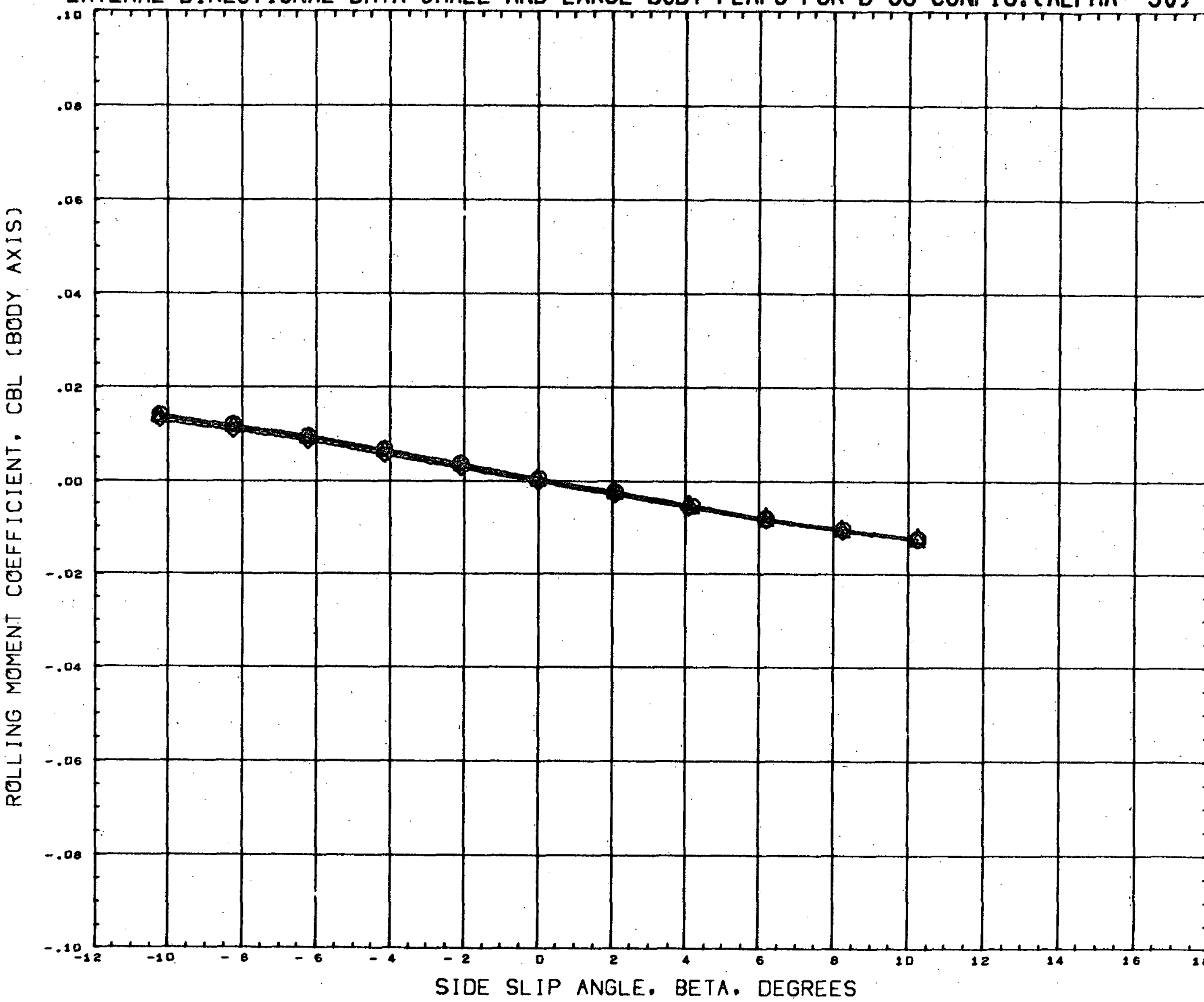
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C	B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C	B25W19C8F7	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCD)	◇	MSFC TWT-493 GD/C	B25W19C8F8	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL DATA SMALL AND LARGE BODY FLAPS FOR B-9U CONFIG.(ALPHA= 30)



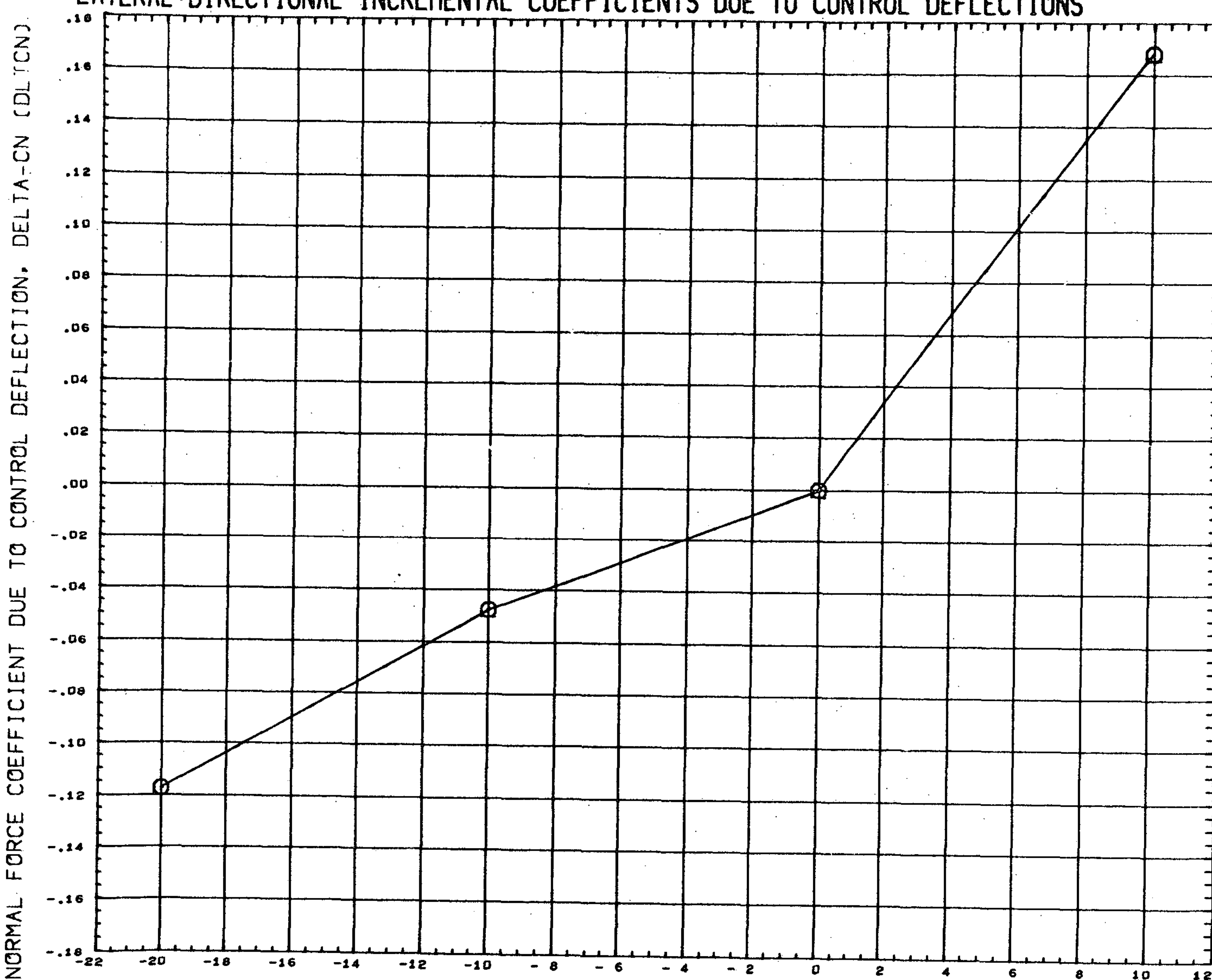
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		ALPHA	B-FLAP	ELEVON	CANARD
(B35OCA)	○	MSFC TWT-493 GD/C B25W19C8	ALPHA=30 C=0 R=0	30.000		0.000	0.000
(A35FCA)	△	MSFC TWT-493 GD/C B25W19C8F7	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000
(A35FCD)	◇	MSFC TWT-493 GD/C B25W19C8F8	ALPHA=30 C=0 F=40	30.000	40.000	0.000	0.000

MACH 4.959

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	5.000	MACH	0.900	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

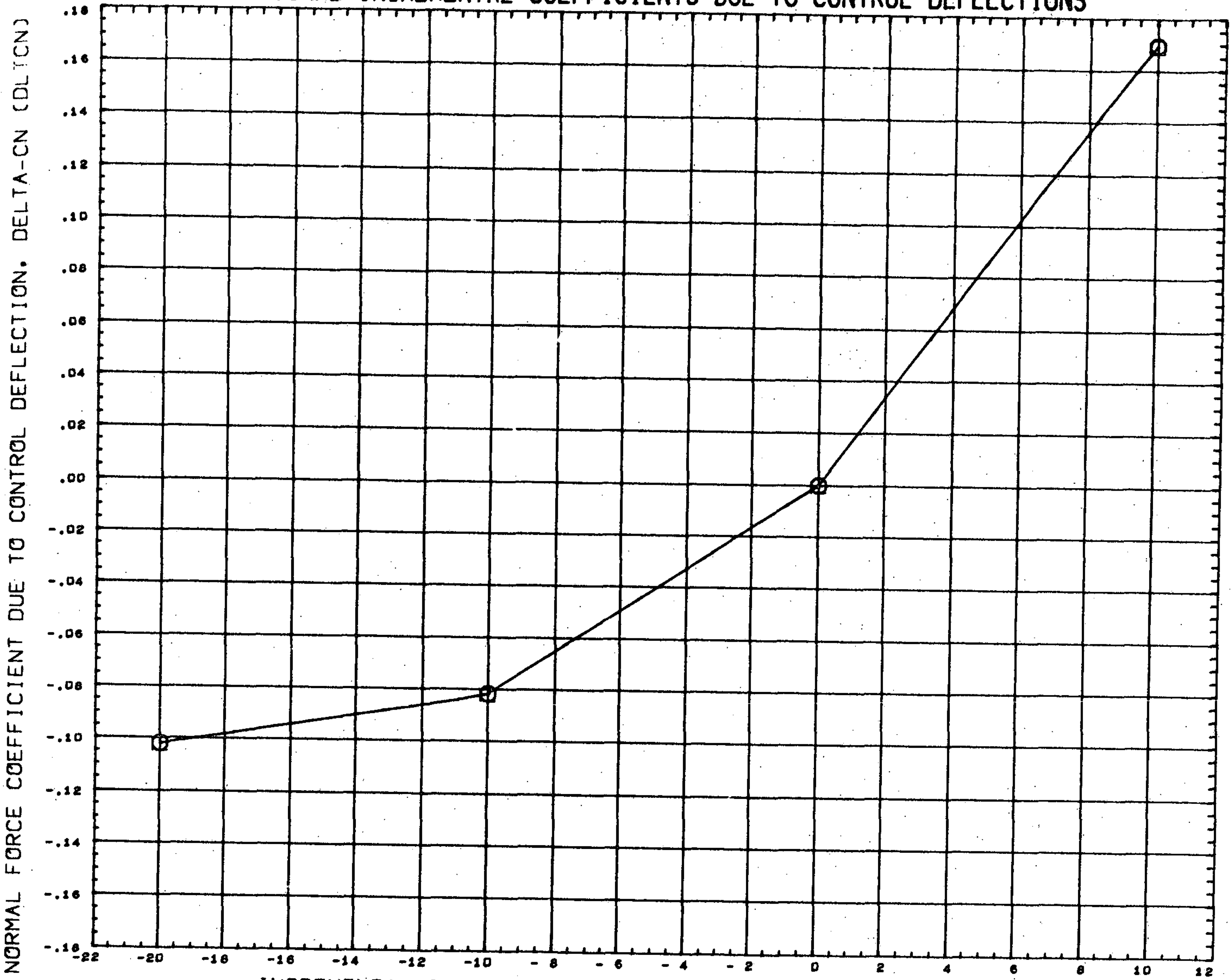
DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	10.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

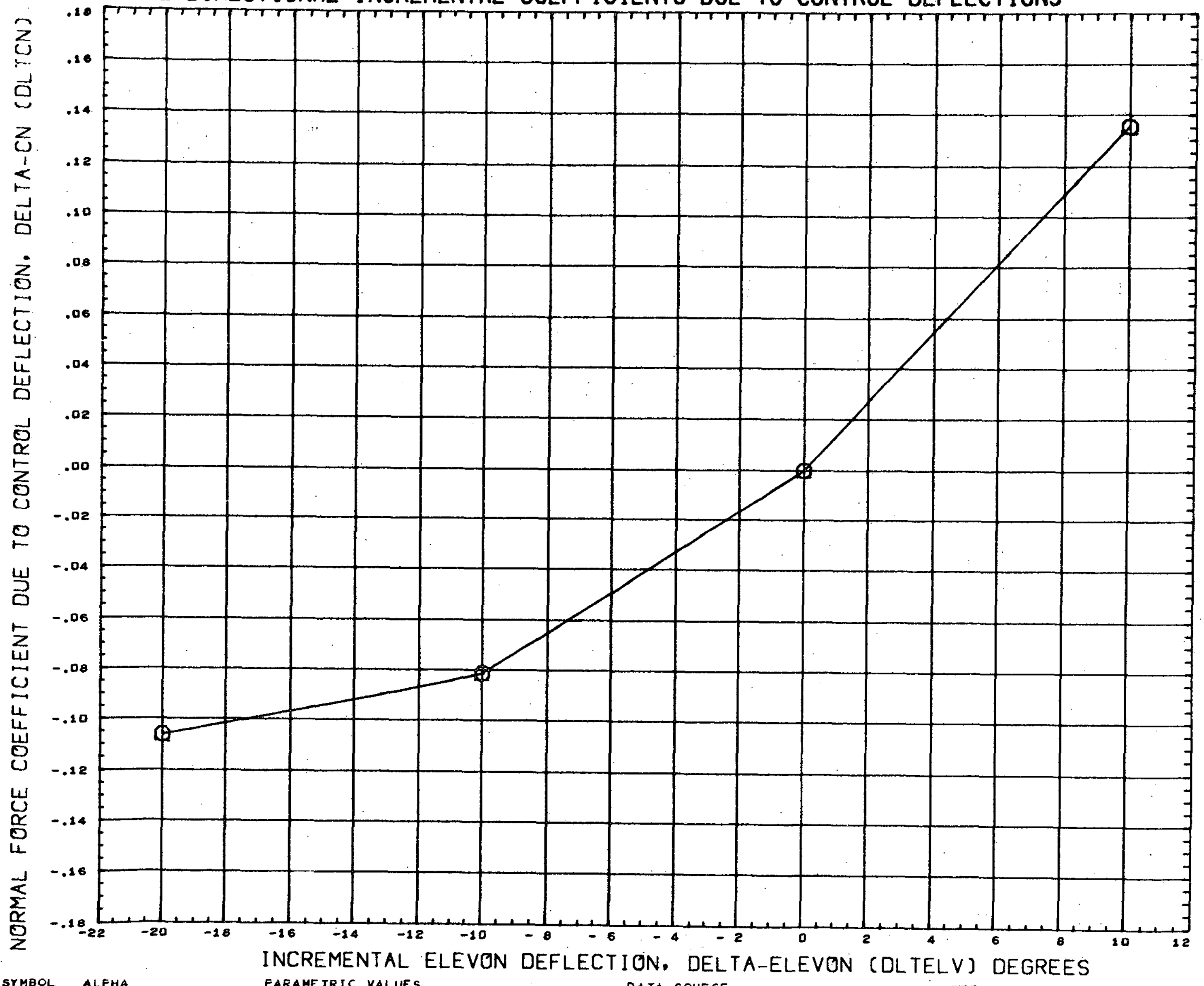
REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

M-493GD/C B25W19C8V10.ELEVON INCREMENTS(EAO-EAO) (S35EAB) 22 SEP 71

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
○	15.000	MACH	0.900	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

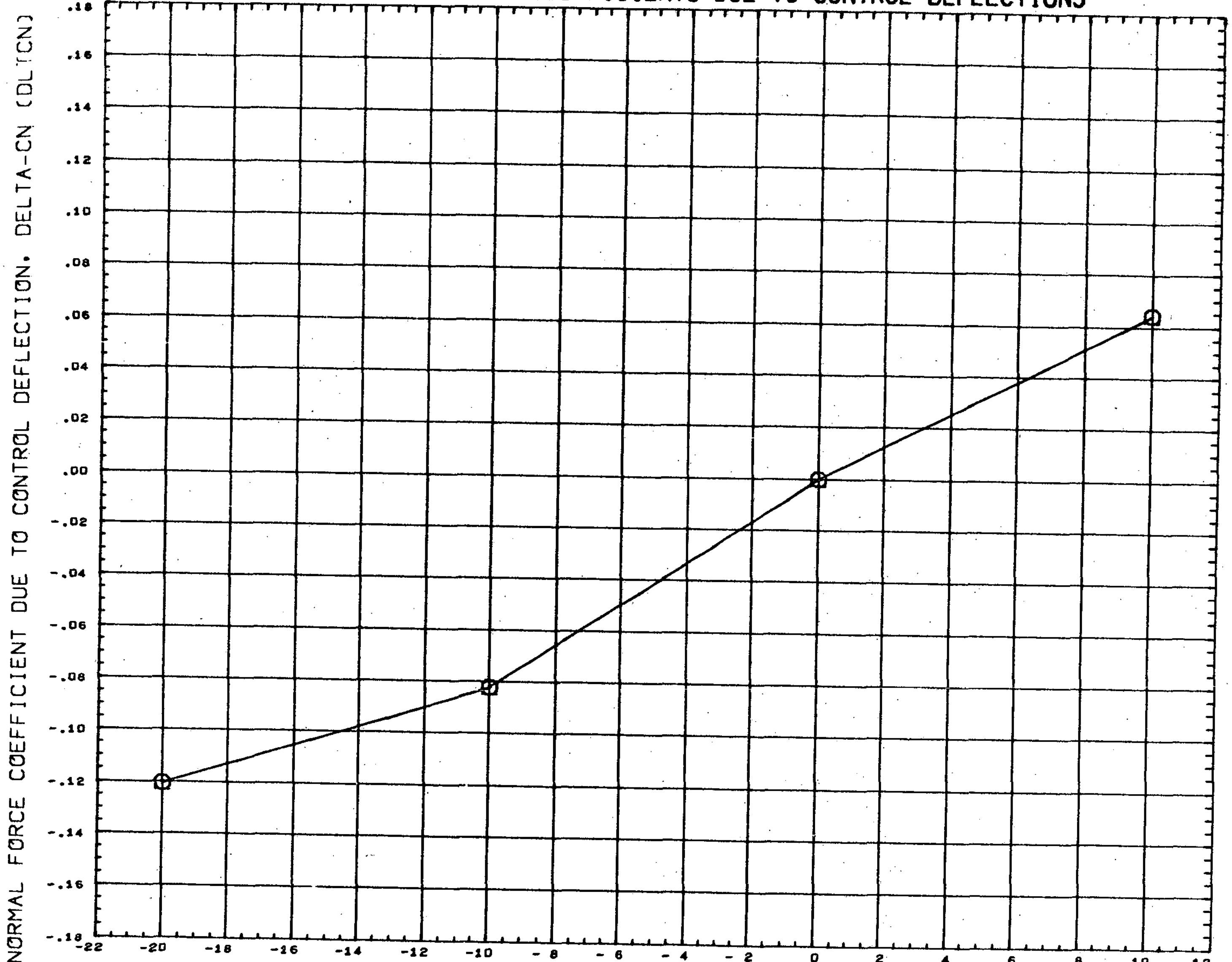
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



INCREMENTAL ELEVON DEFLECTION, DELTA-ELEVON (DLTELV) DEGREES

SYMBOL	ALPHA
O	20.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

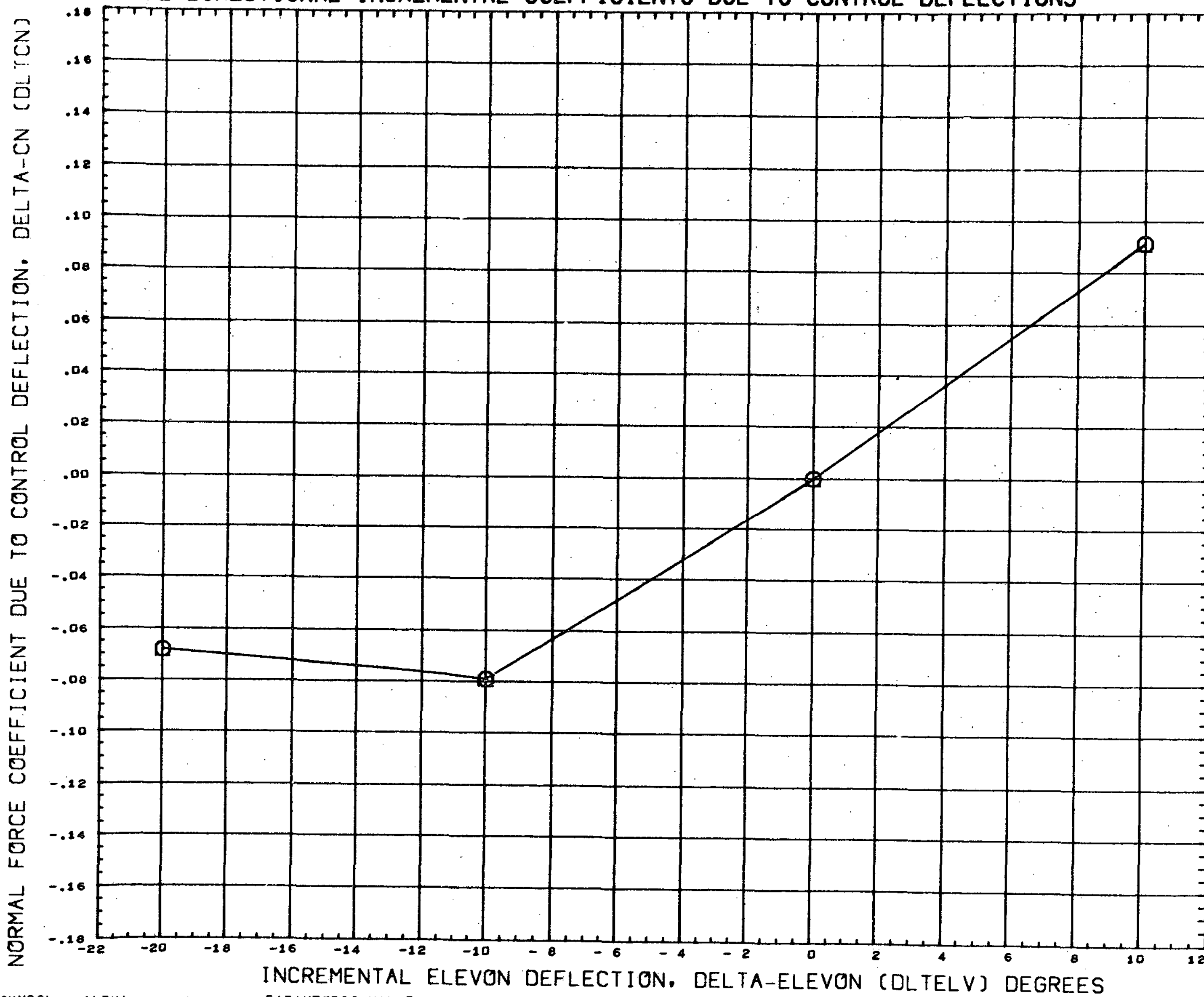
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	23.000	MACH	0.900	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

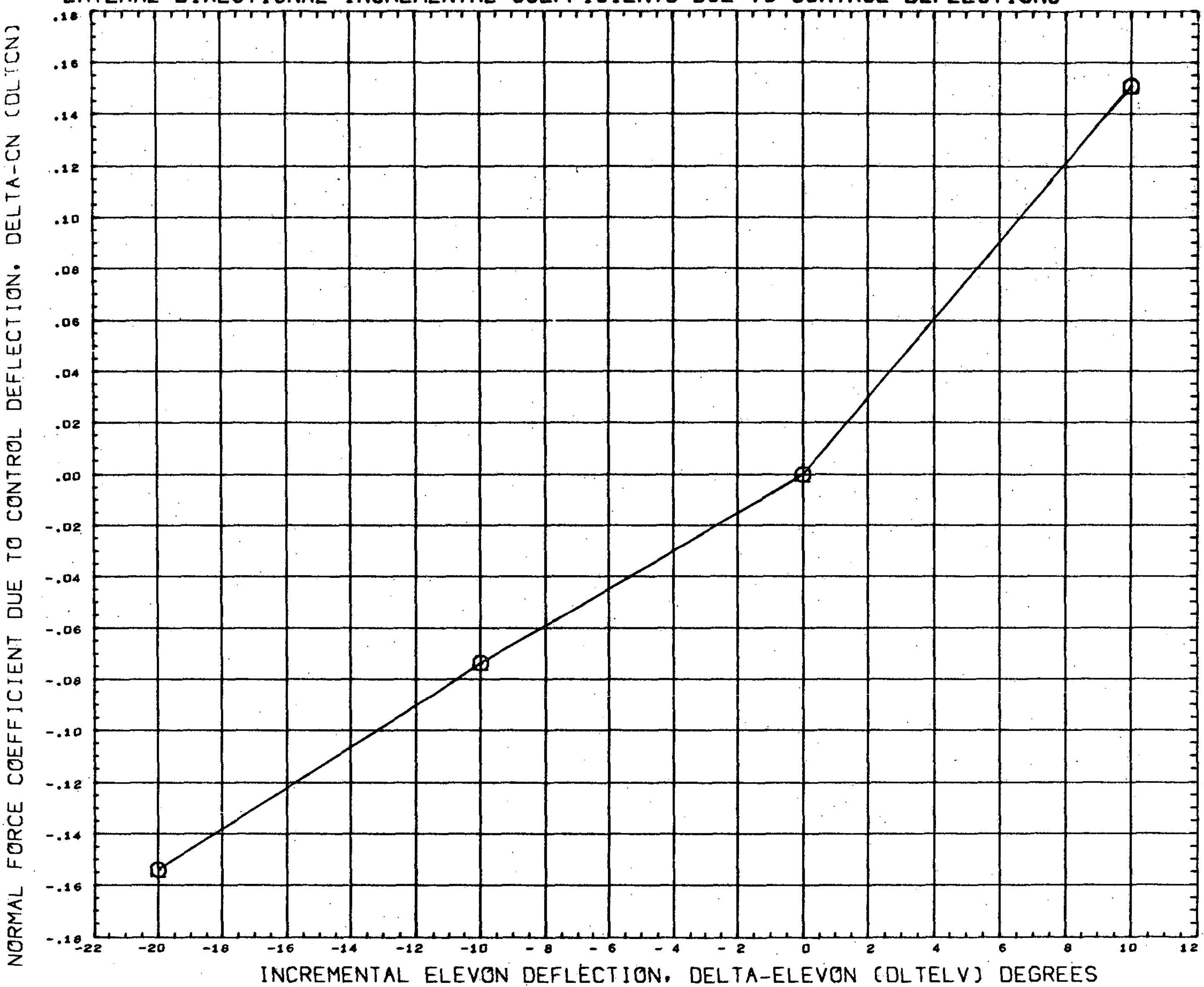
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

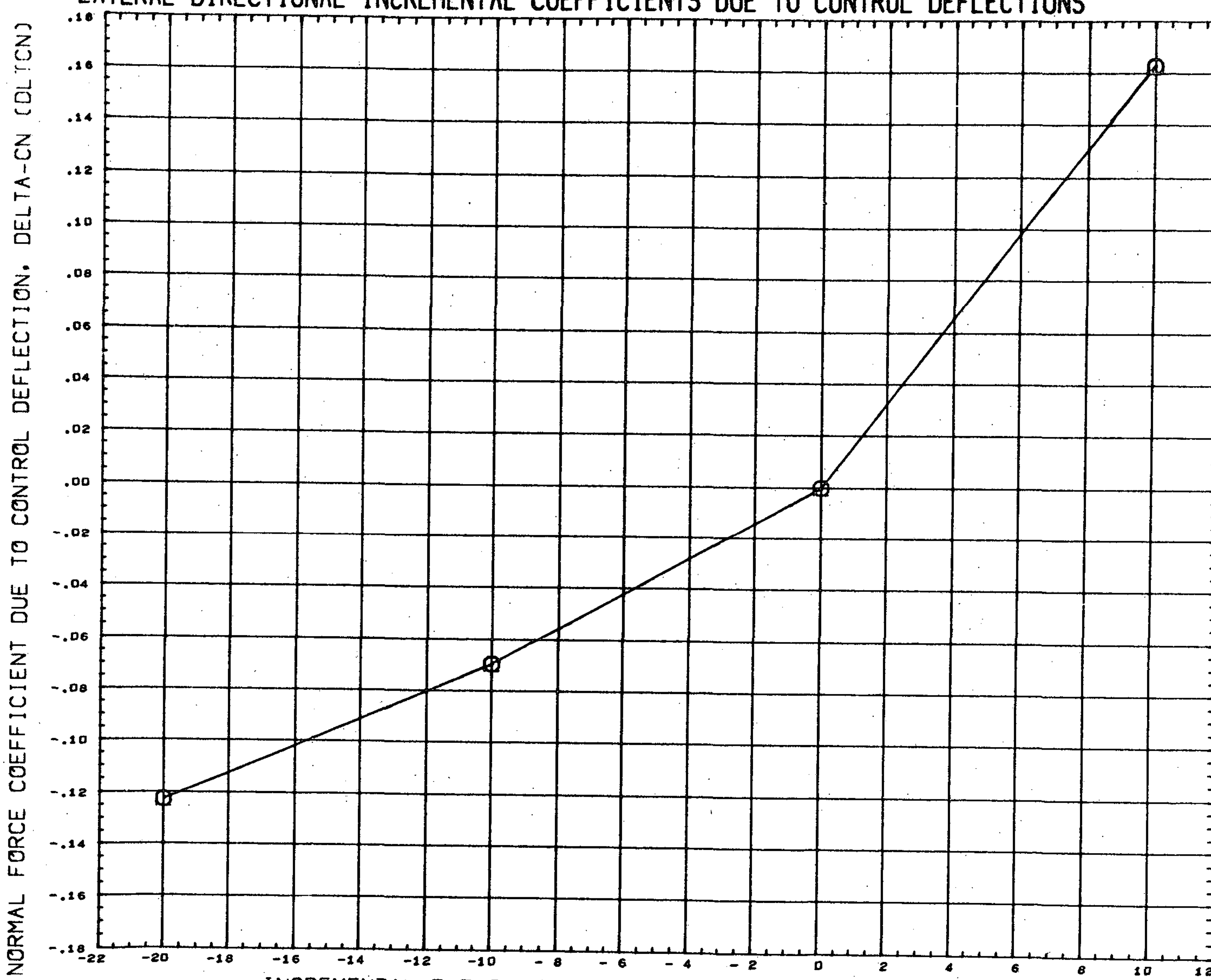
LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
						DATASET	DLTELV	DATASET	DLTELV	SREF	14.9040	SQ.IN.
O	5.000	MACH	1.000	BETA	0.000	S35EAB	- 20.000	S35EAC	- 10.000	LREF	3.0120	IN.
		CANARD	0.000	RUDDER	0.000	S35EAO	0.000	S35EAA	10.000	BREF	6.0180	IN.
										XMRP	7.2990	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



INCREMENTAL ELEVON DEFLECTION, DELTA-ELEVON (DLTELV) DEGREES

SYMBOL	ALPHA	PARAMETRIC VALUES			
O	10.000	MACH	1.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

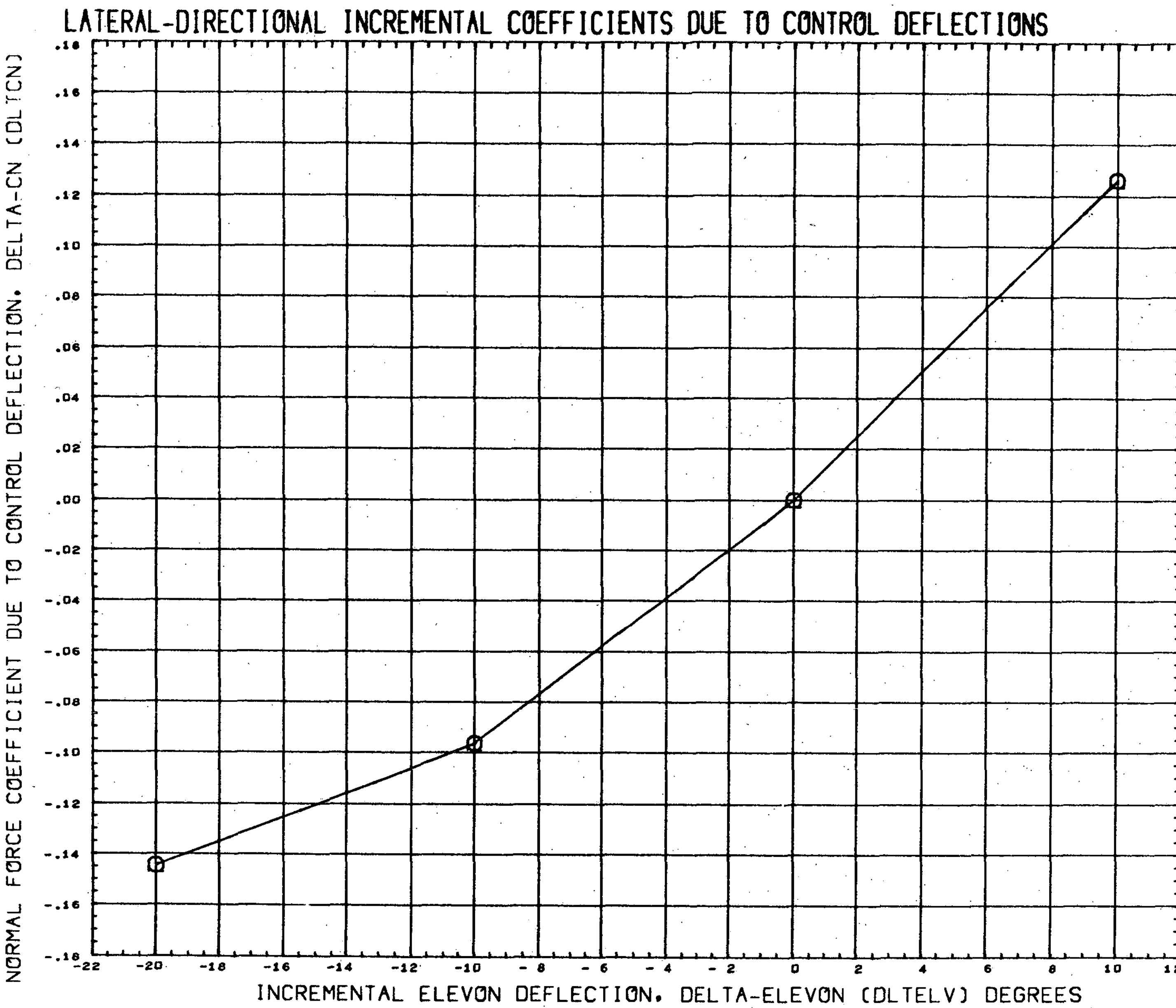
DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

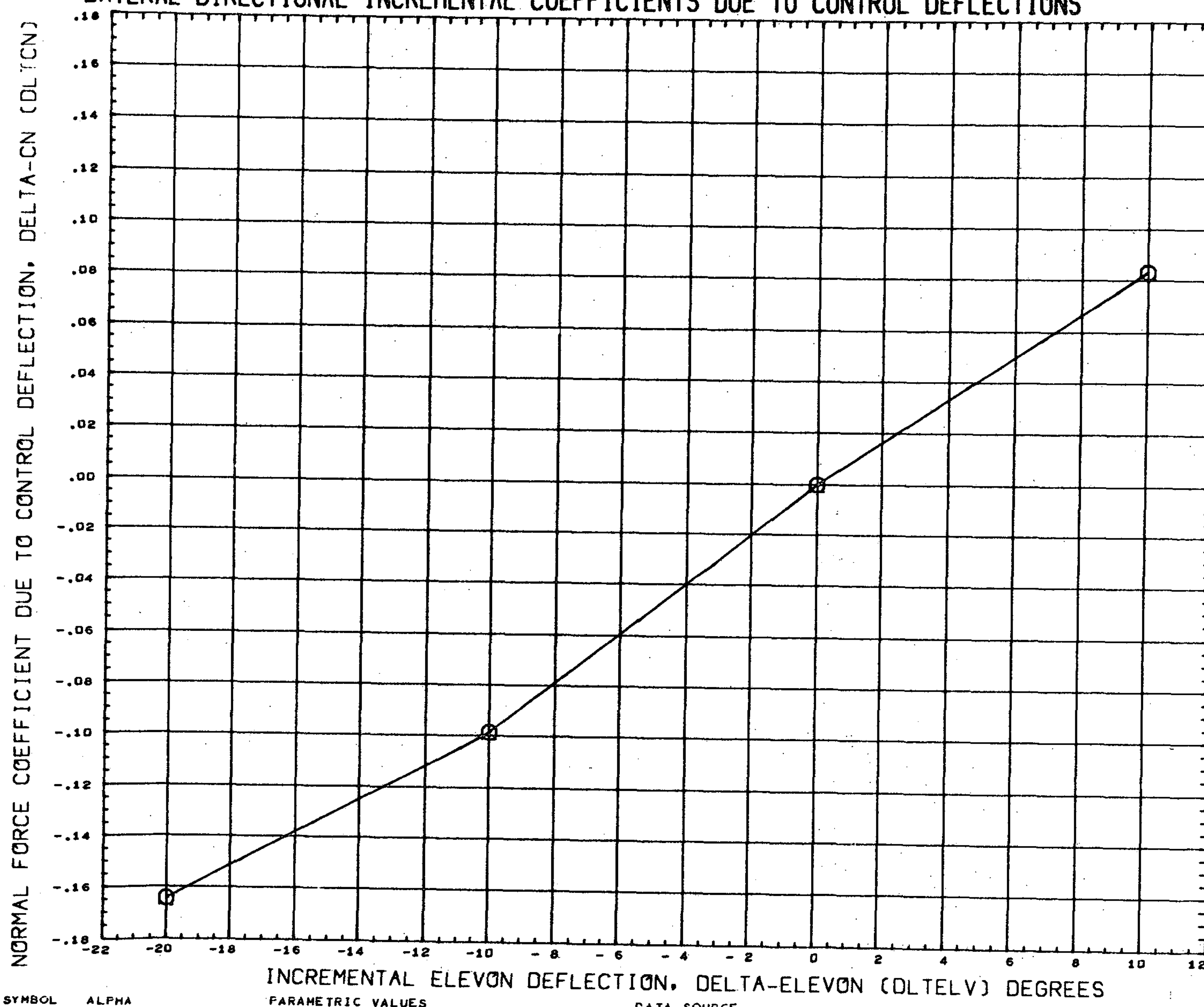
DATA HIST. CODE I*C



SYMBOL	ALFHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
						DATASET	DLTELV	DATASET	DLTELV			
◻	15.000	MACH	1.000	BETA	0.000	S35EAB	- 20.000	S35EAC	- 10.000	SREF	14.9040	SQ.IN.
		CANARD	0.000	RUDDER	0.000	S35EAO	0.000	S35EAA	10.000	LREF	3.0120	IN.
										BREF	6.0180	IN.
										XMRP	7.2990	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL ○ ALPHA 20.000

PARAMETRIC VALUES

MACH	1.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

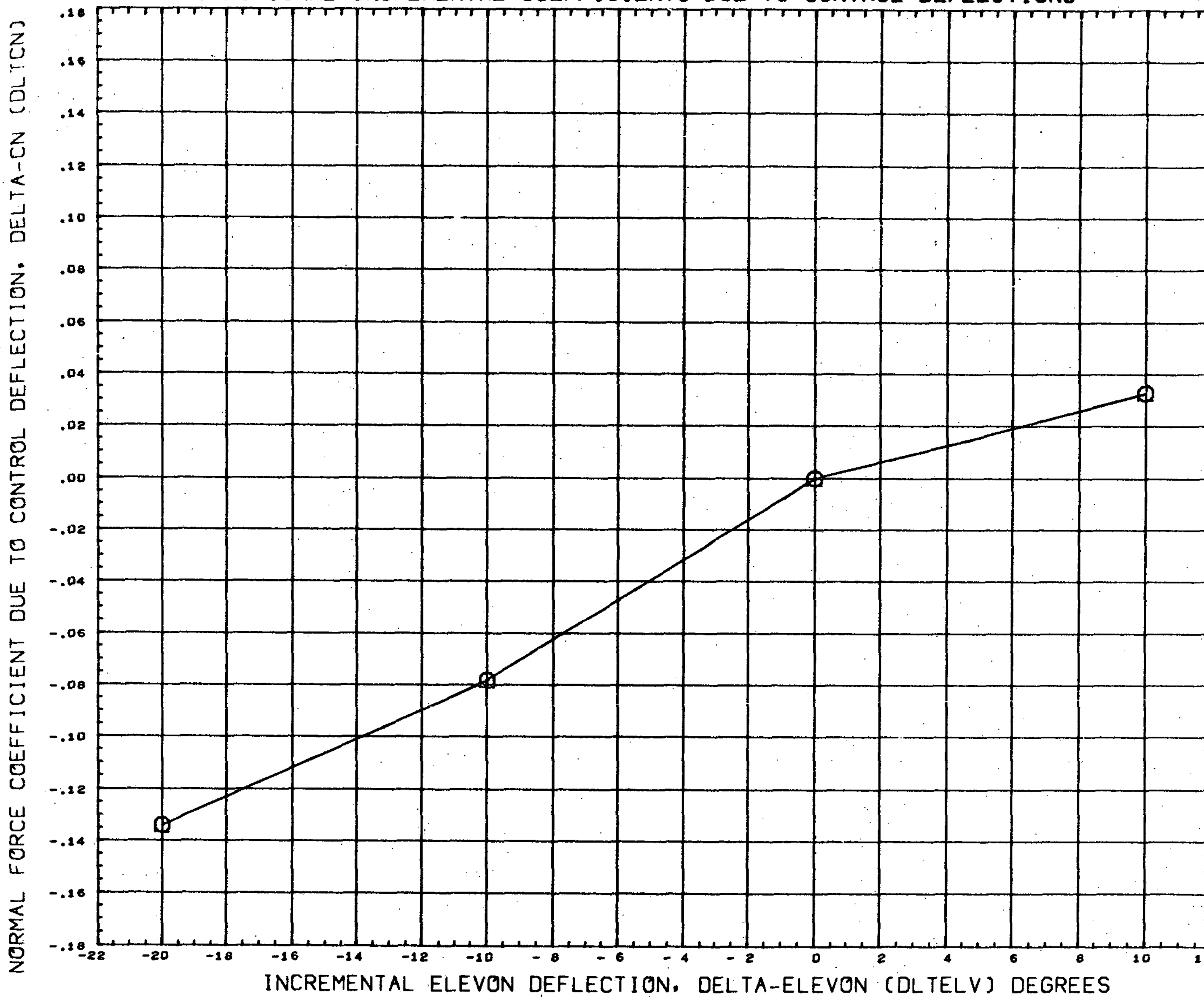
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

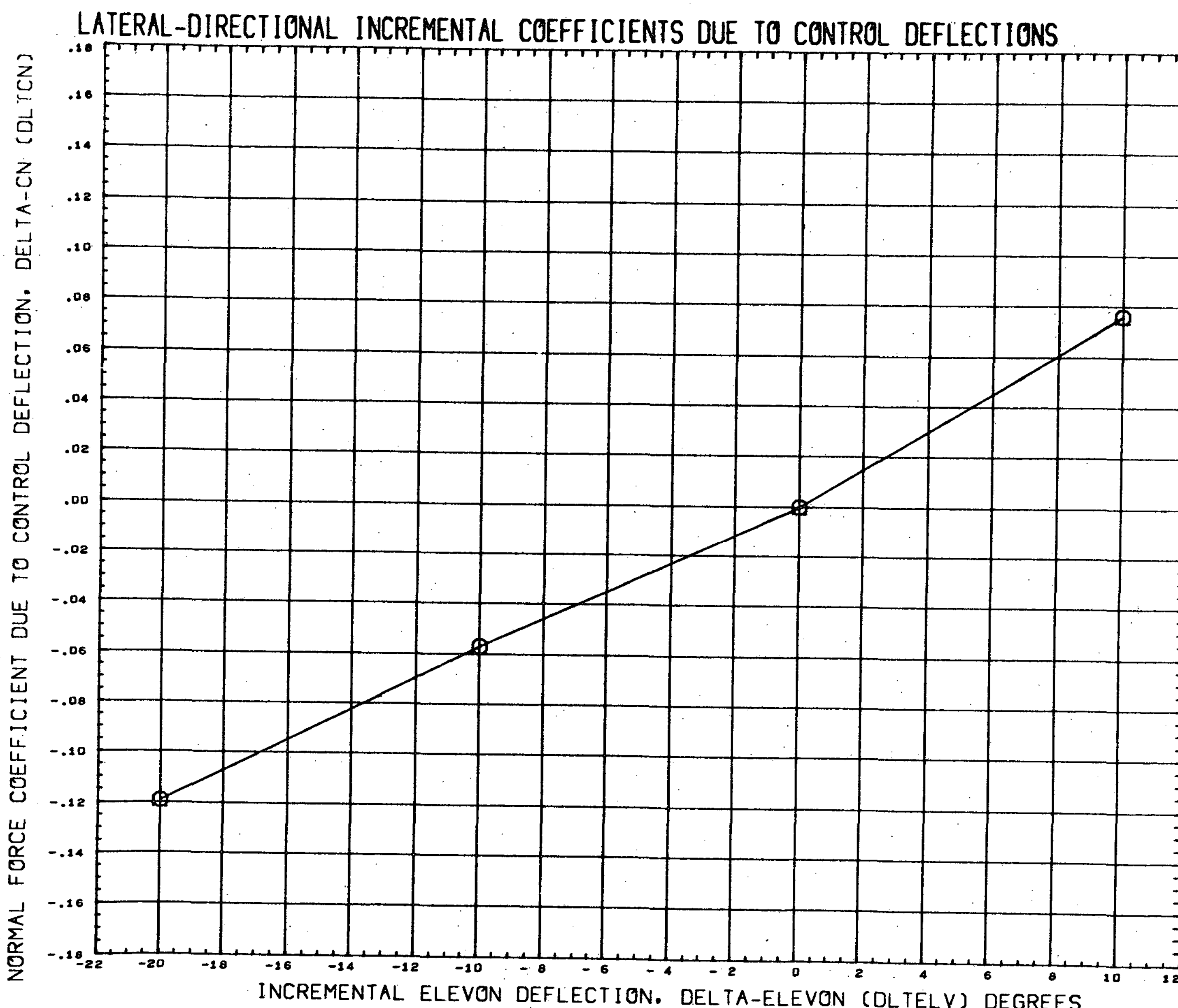
DATA HIST. CODE 1*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
O	23.000	MACH	1.000	BETA	0.000	DATASET	DLTELV	DATASET	DLTELV	SREF	14.9040	SQ.IN.
		CANARD	0.000	RUDDER	0.000	S35EAB	- 20.000	S35EAC	- 10.000	LREF	3.0120	IN.
						S35EAO	0.000	S35EAA	10.000	BREF	6.0180	IN.
										XMRP	7.2990	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA
O	5.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
CANARD	0.000	RUDDER	0.000

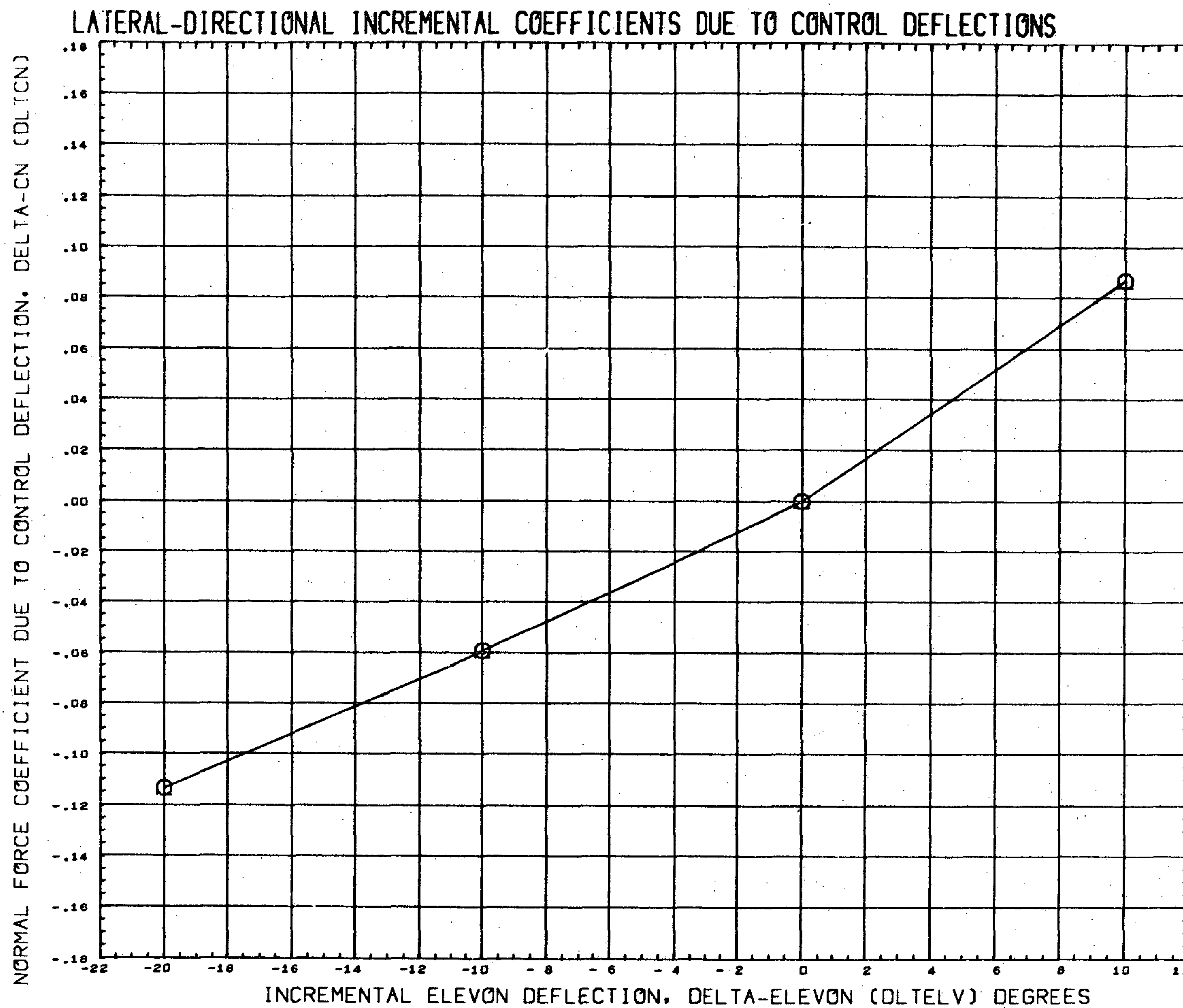
DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	10.000	MACH	1.200	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

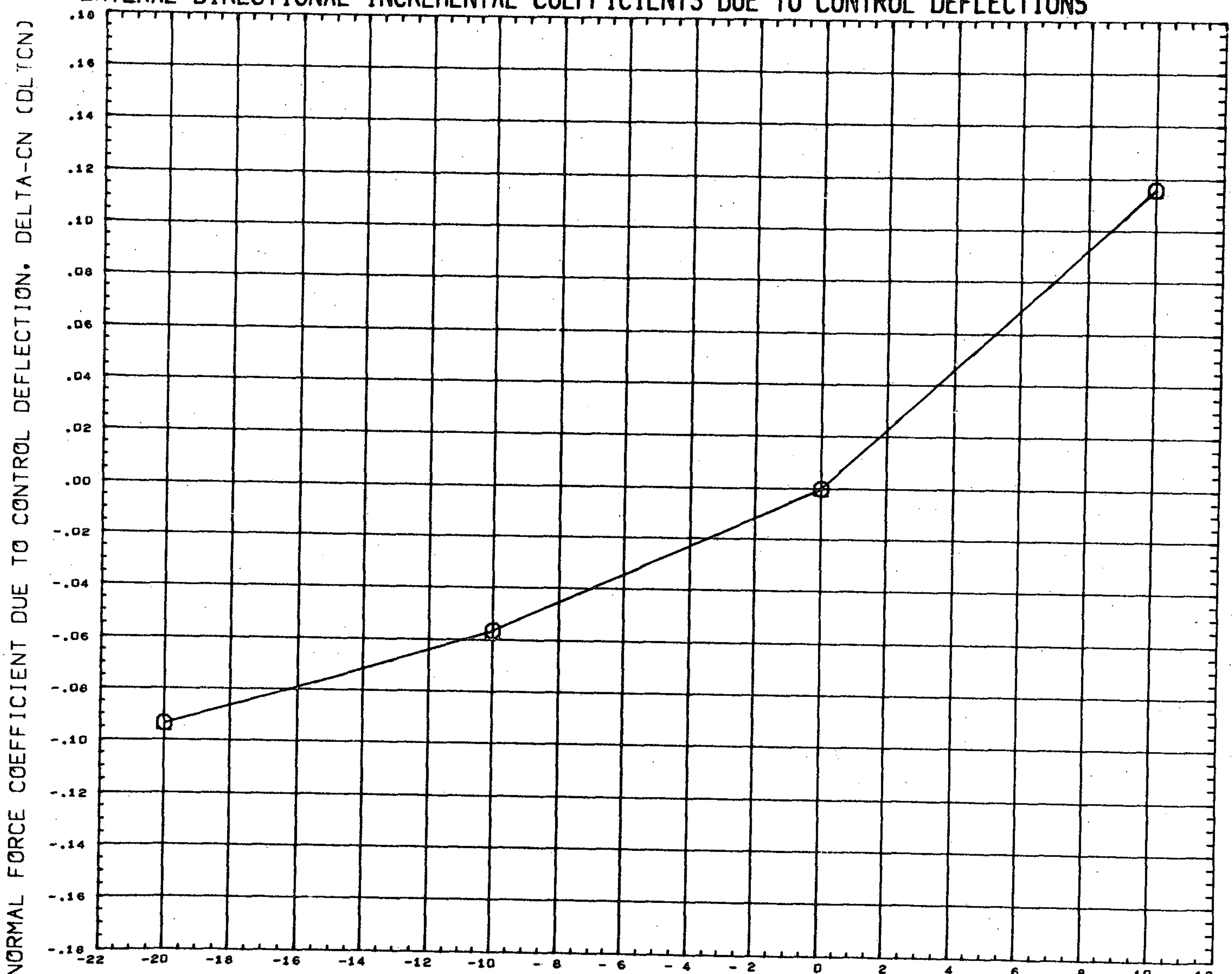
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	15.000	MACH	1.200	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

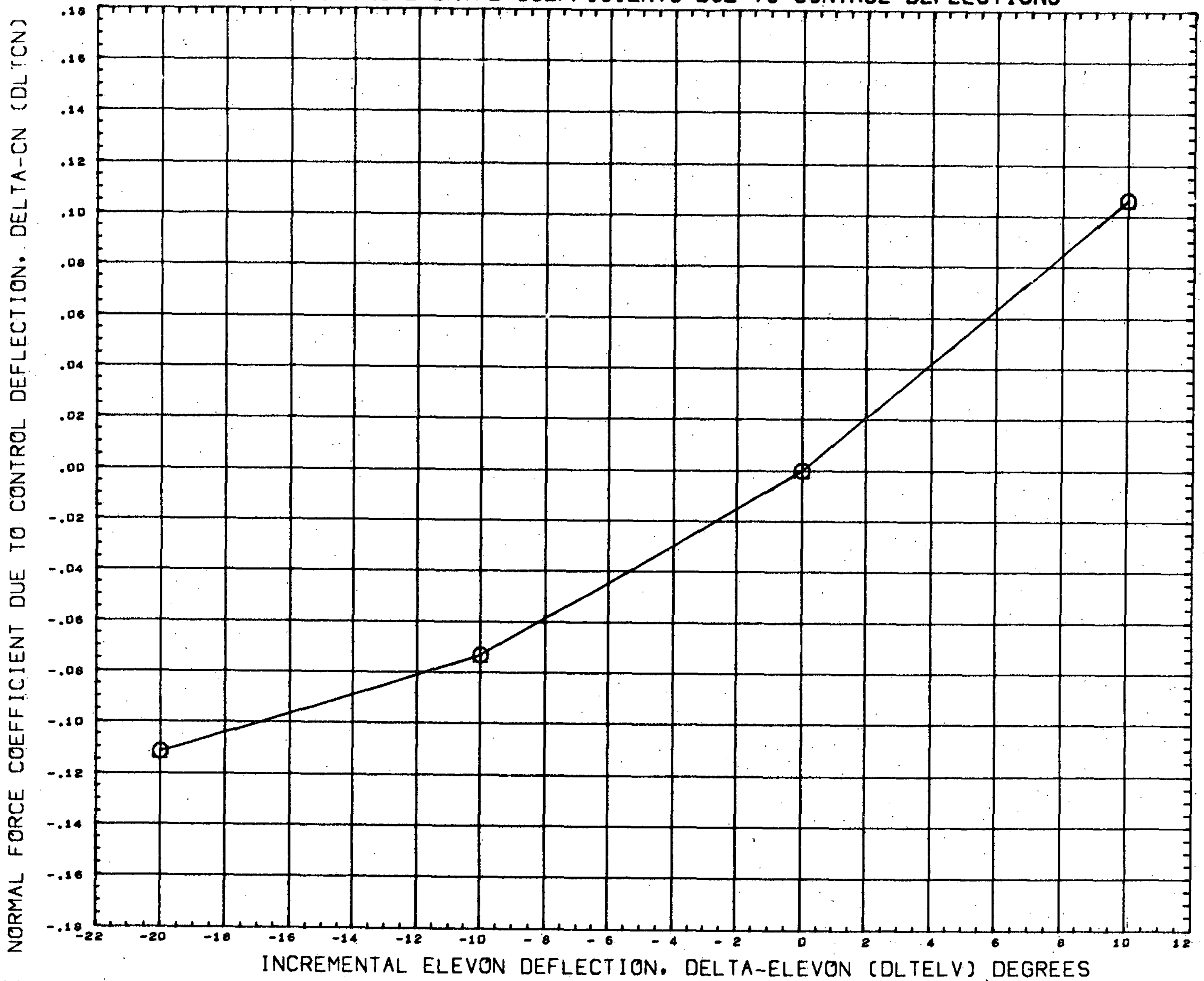
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	20.000	MACH	1.200	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

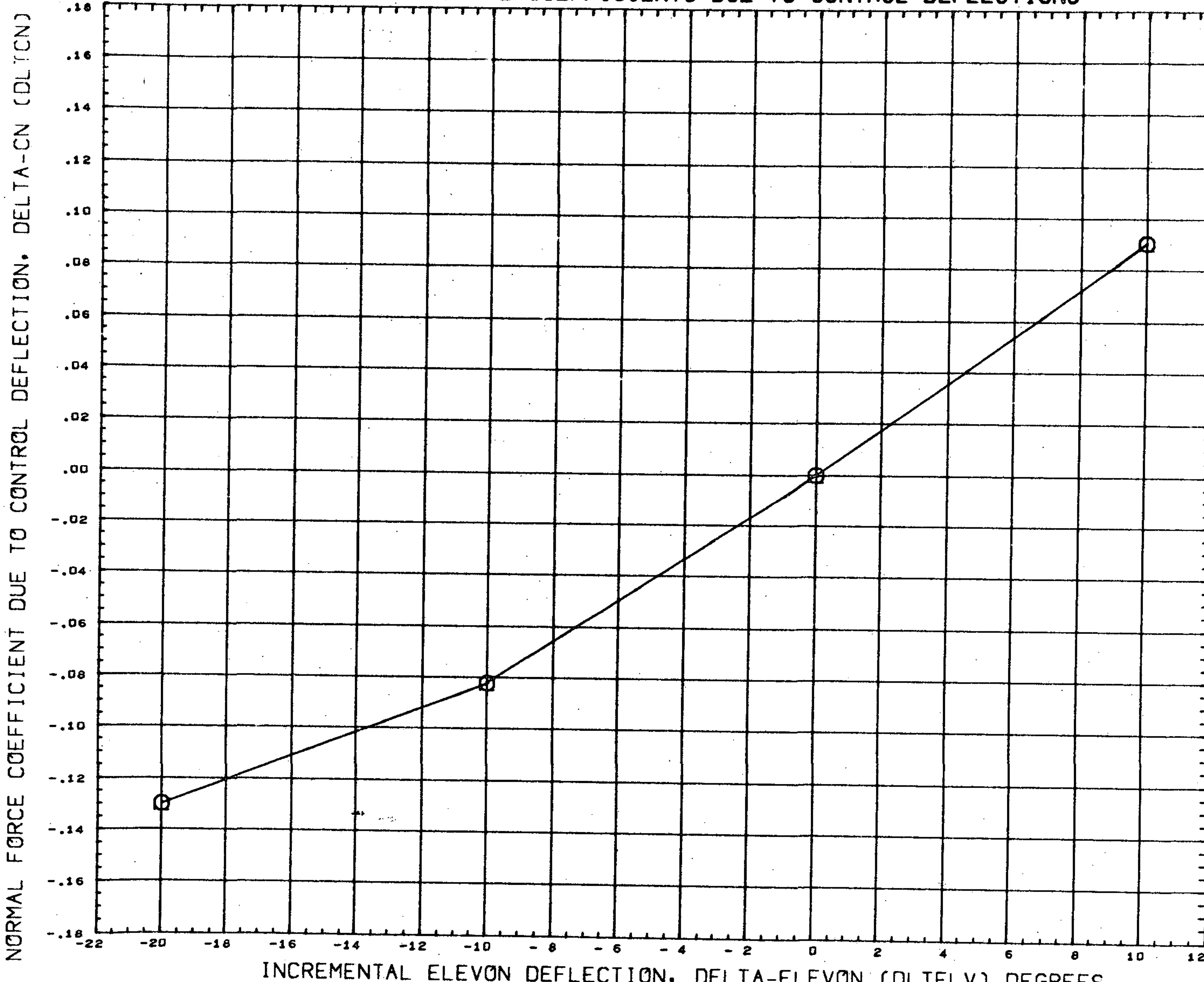
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
◻	23.000	MACH	1.200	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

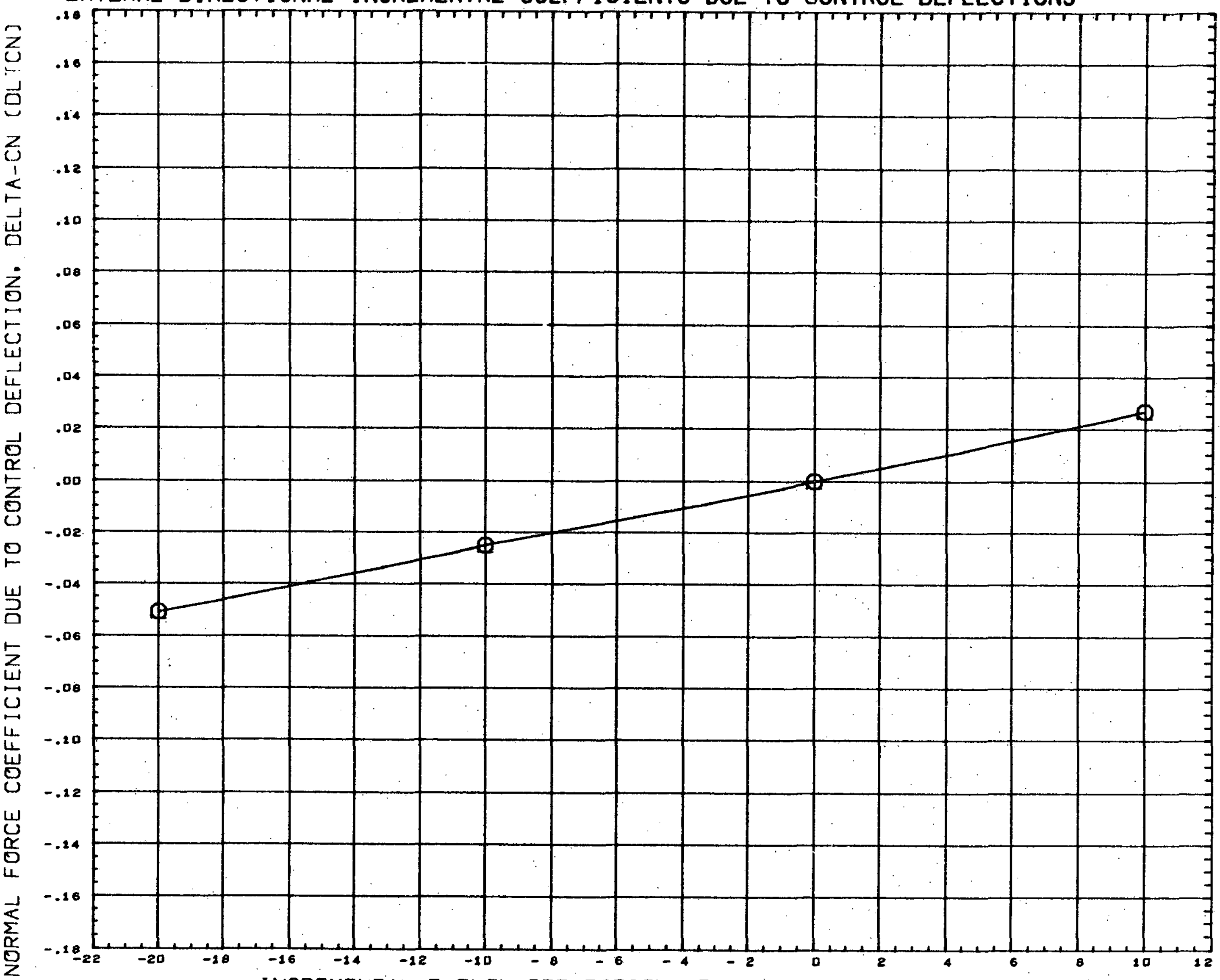
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	5.000	MACH	2.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

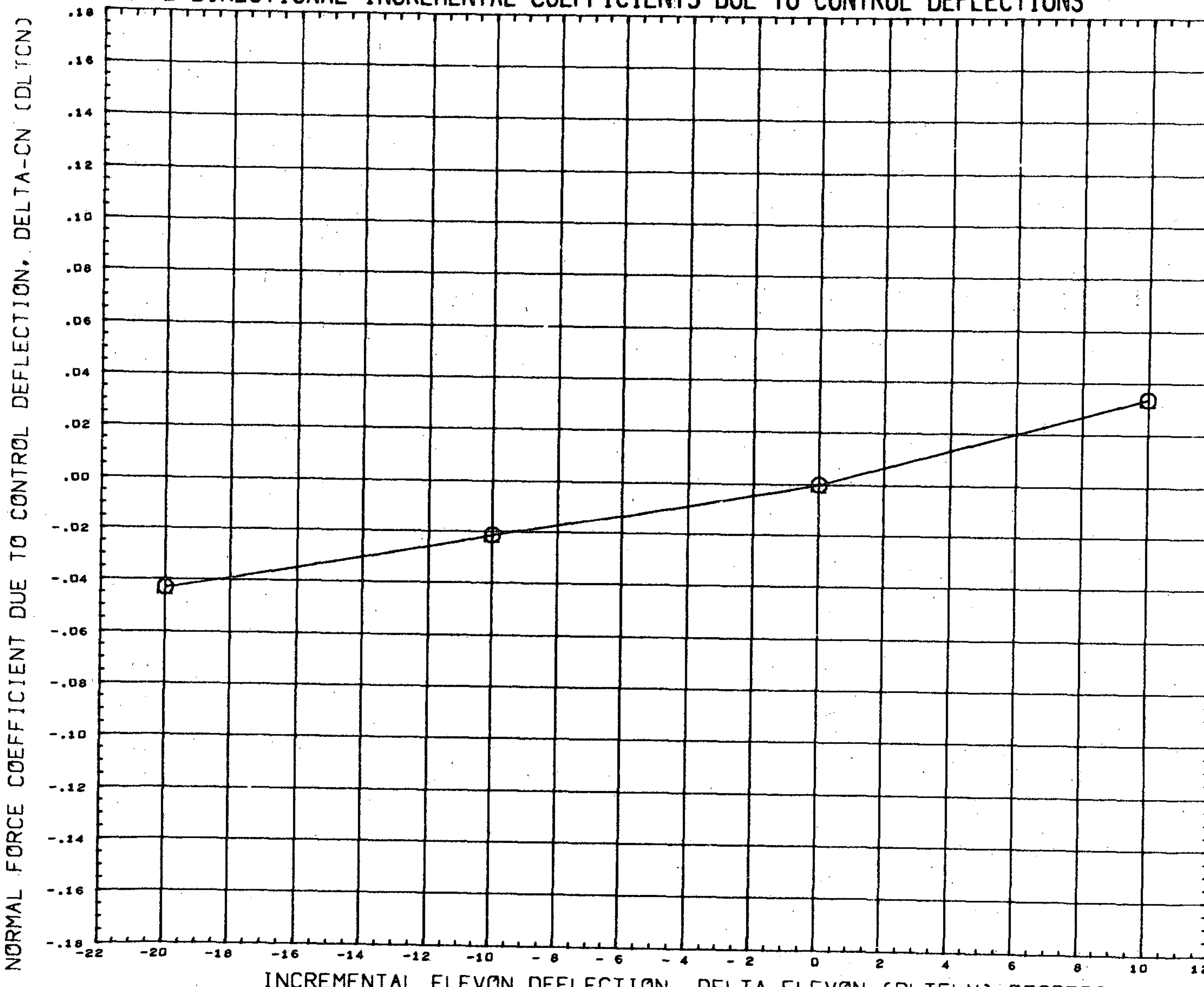
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL ALPHA
○ 10.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

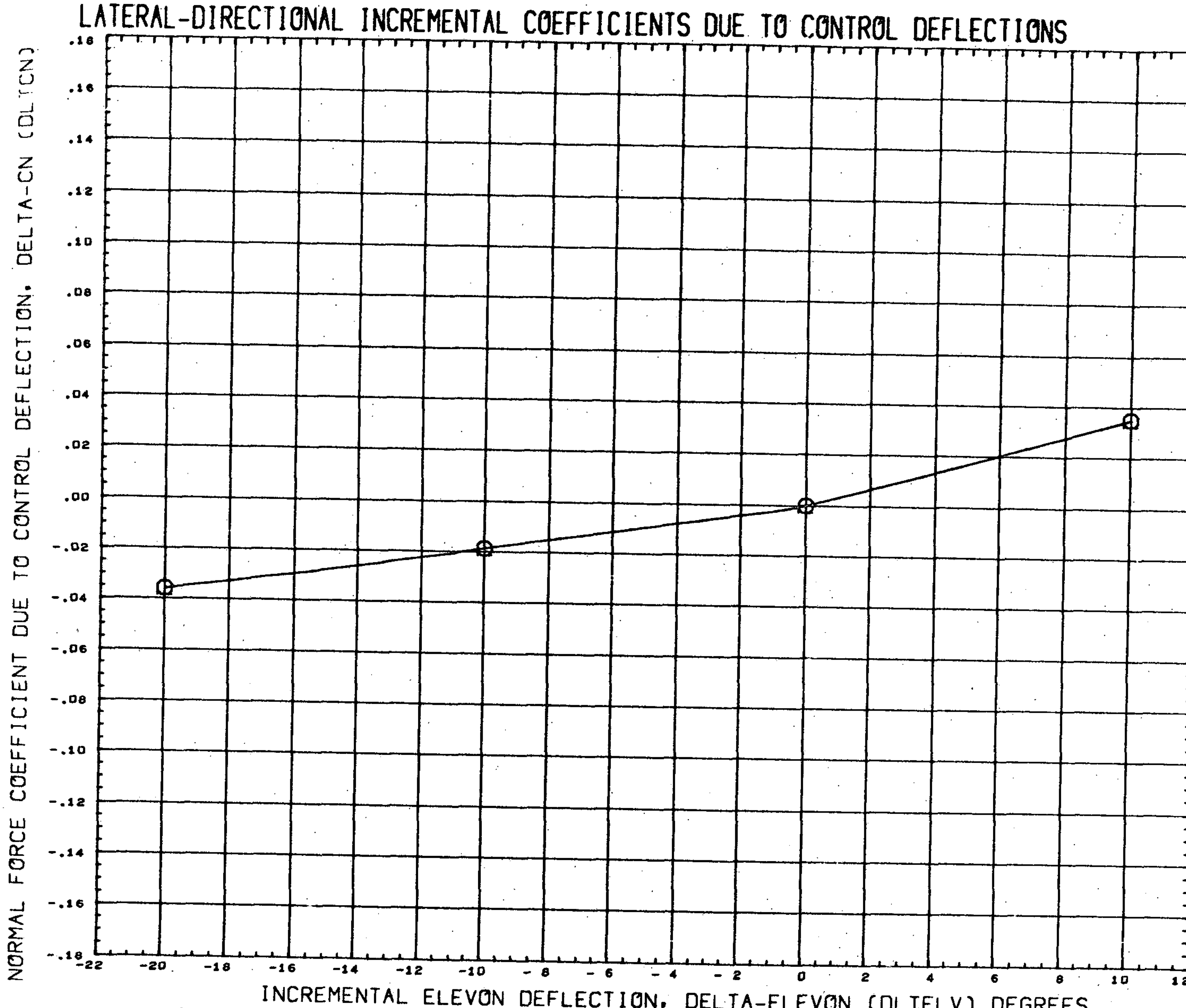
DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA
O	15.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

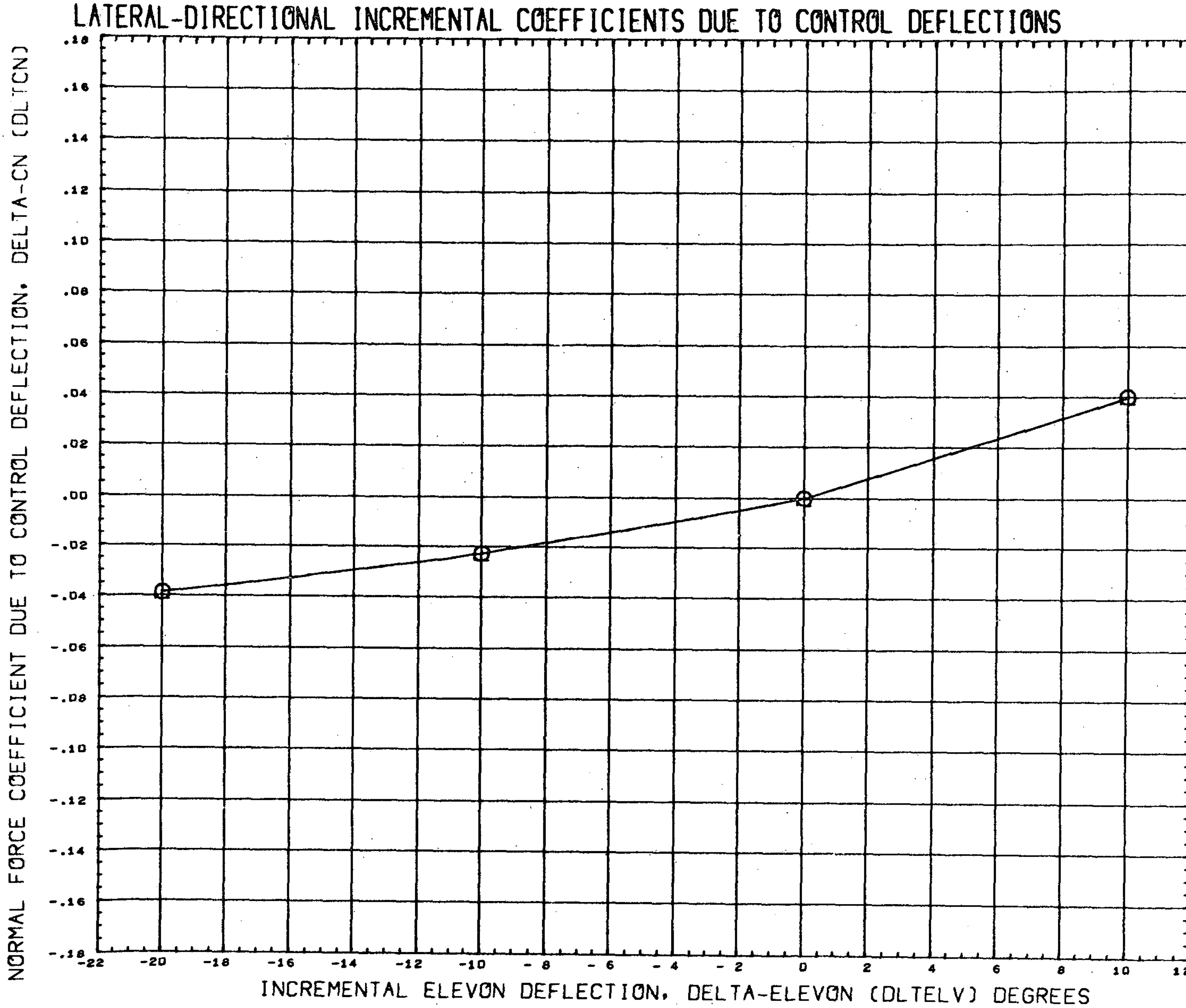
DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I#C



SYMBOL	ALPHA
◻	20.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

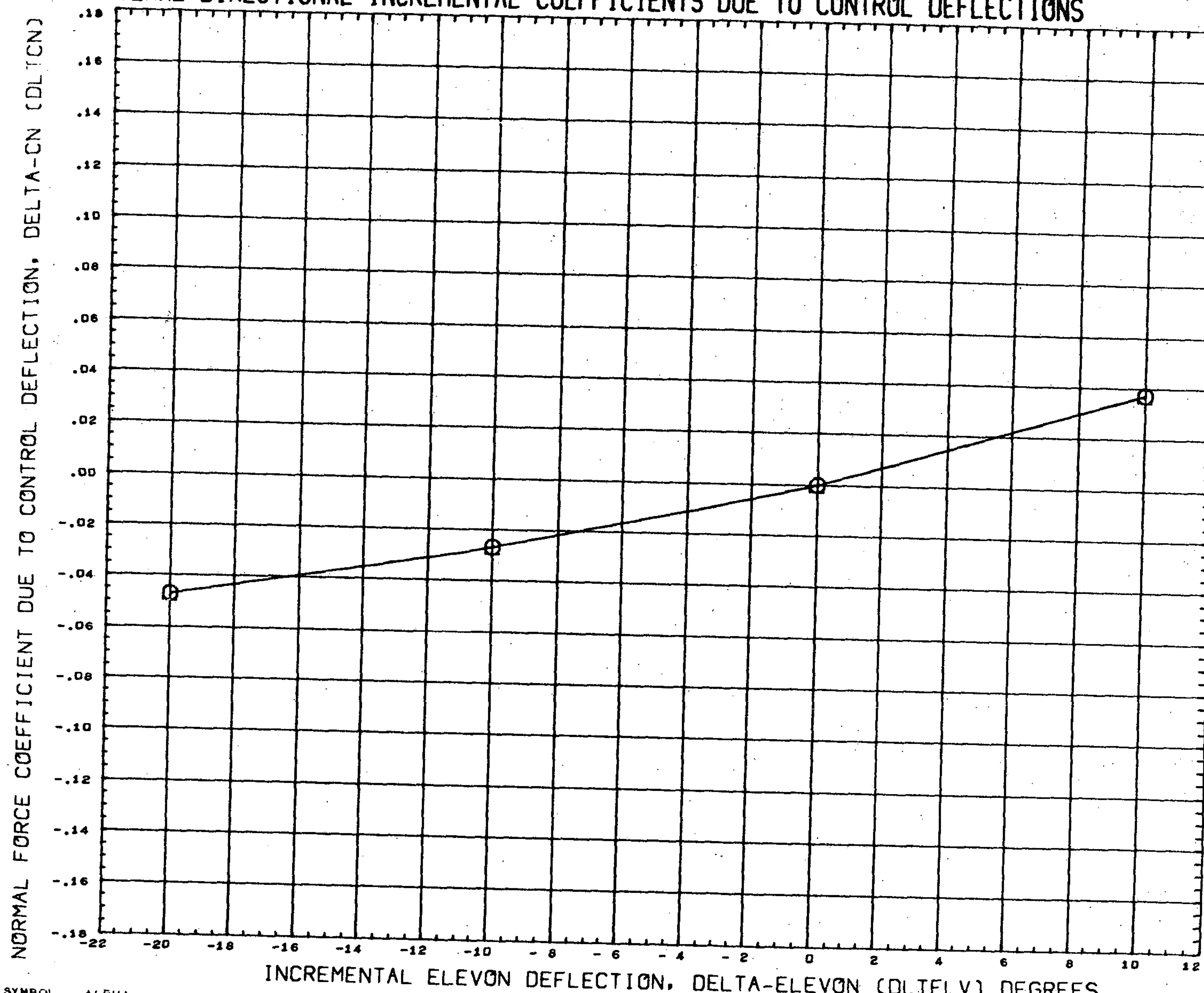
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL ○ ALPHA 23.000

PARAMETRIC VALUES

MACH 2.000 BETA 0.000
CANARD 0.000 RUDDER 0.000

DATA SOURCE

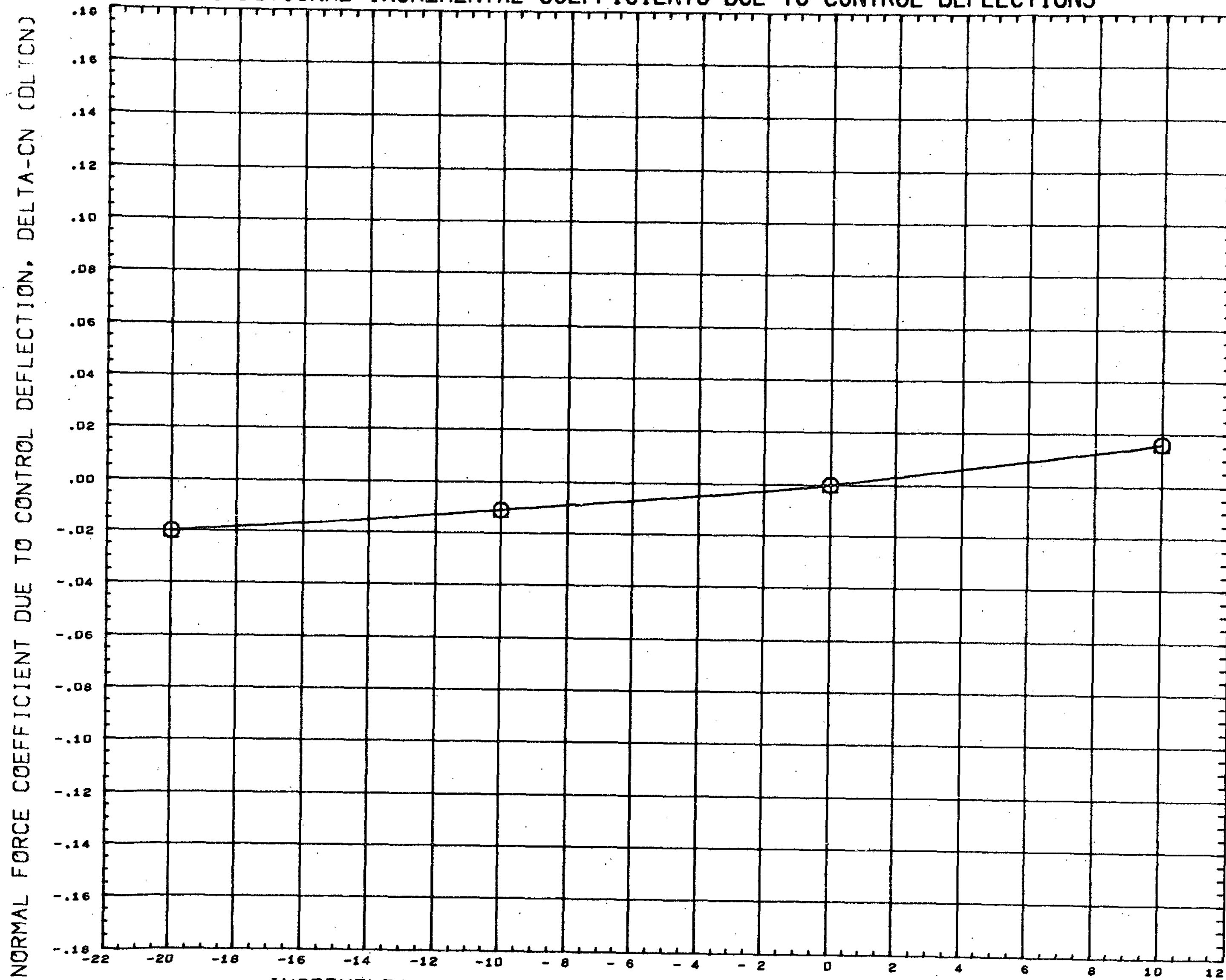
DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	5.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

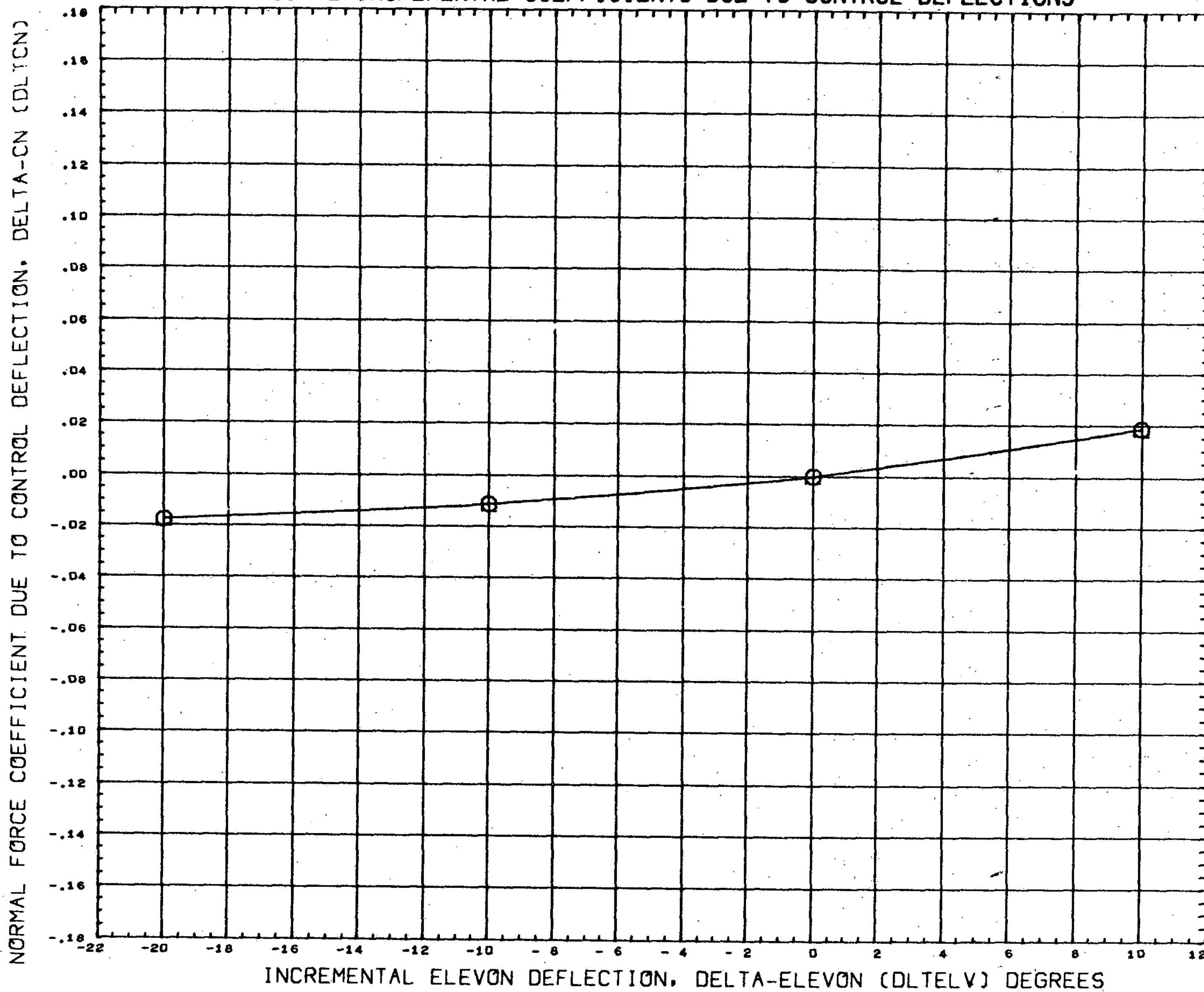
DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA		PARAMETRIC VALUES		
O	10.000	MACH	3.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

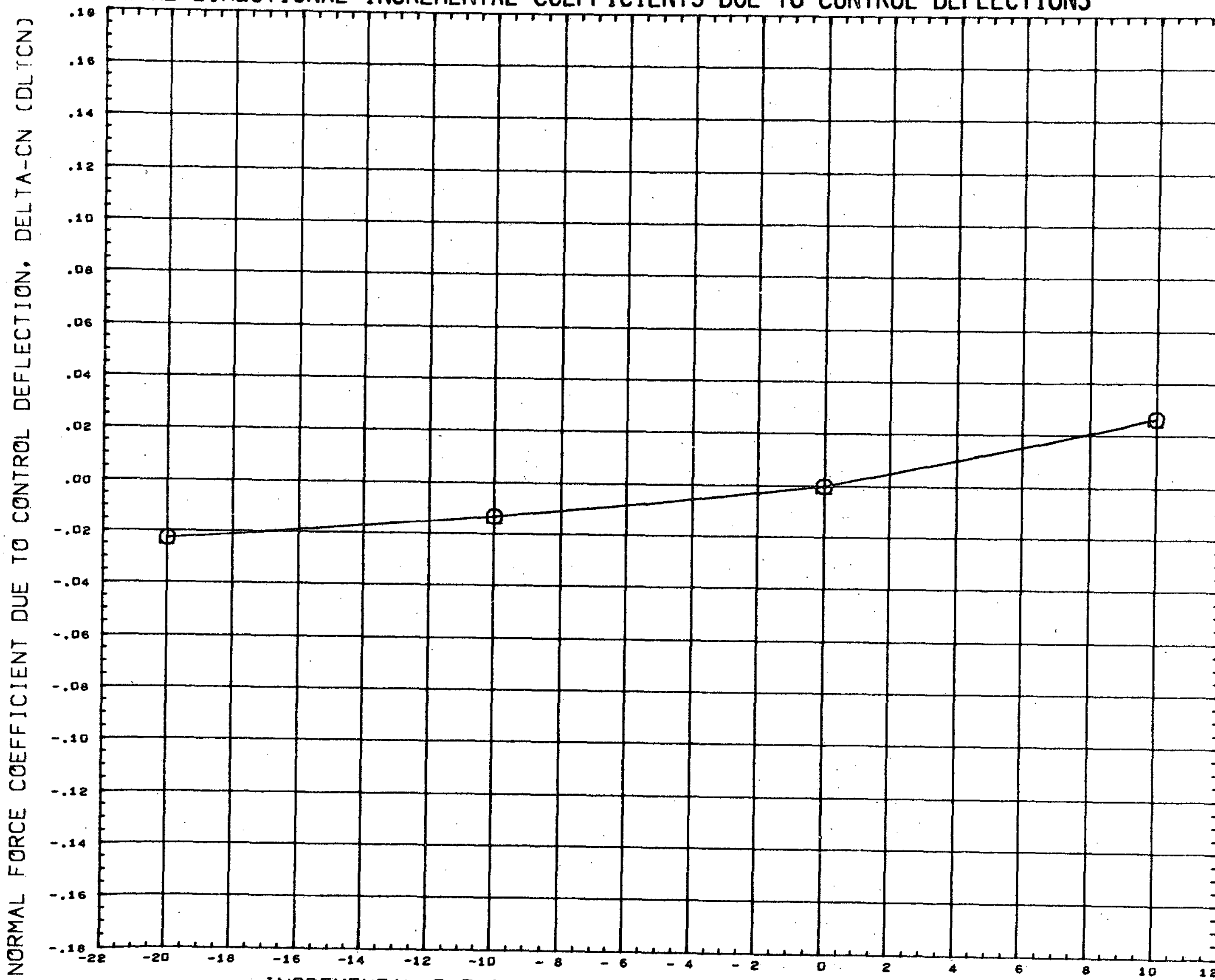
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	15.000	MACH	3.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

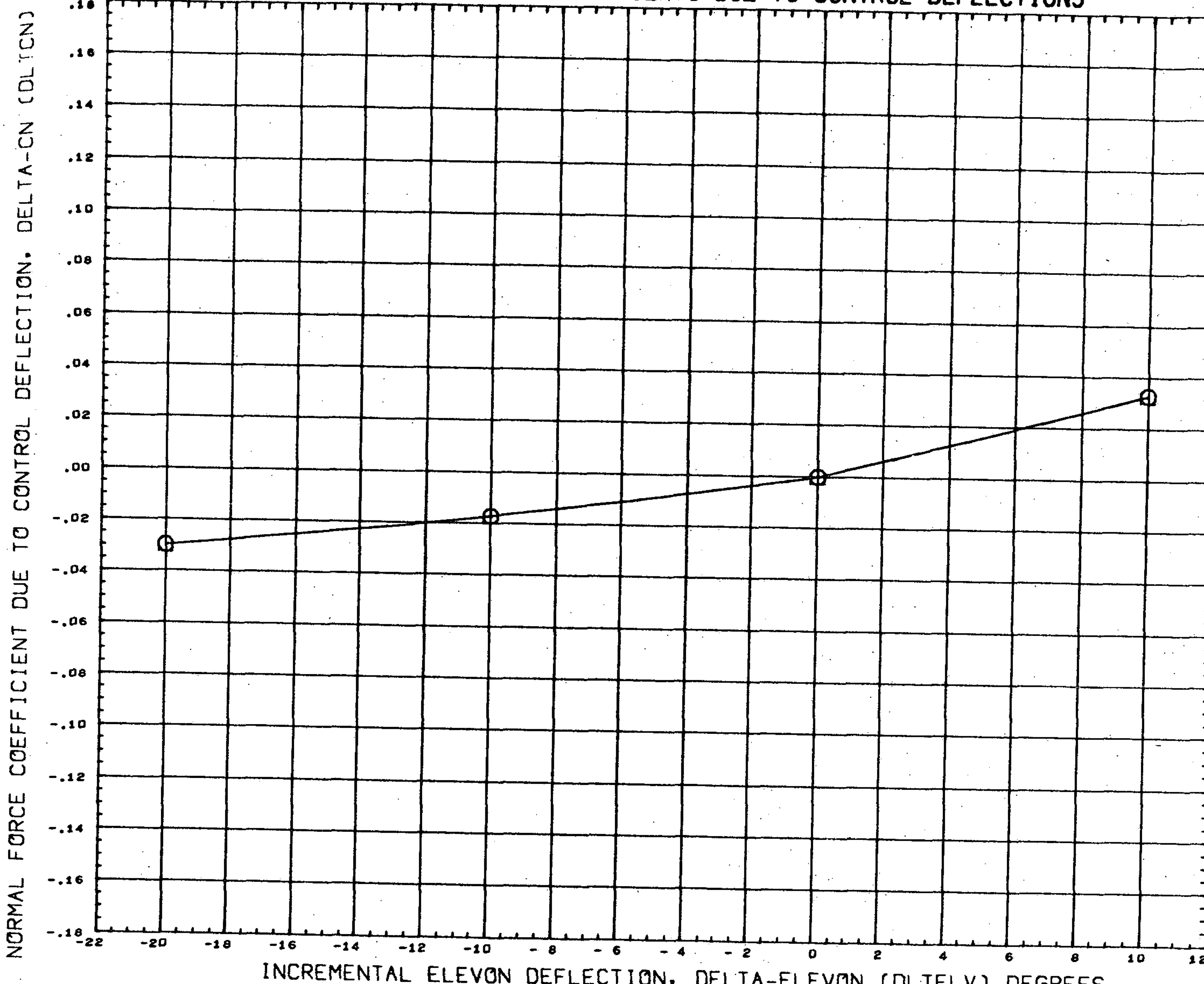
REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

M-493GD/C B25W19C8V10, ELEVON INCREMENTS(EA0-EA0) (S35EAB) 22 SEP 71 PAGE 351

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	20.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

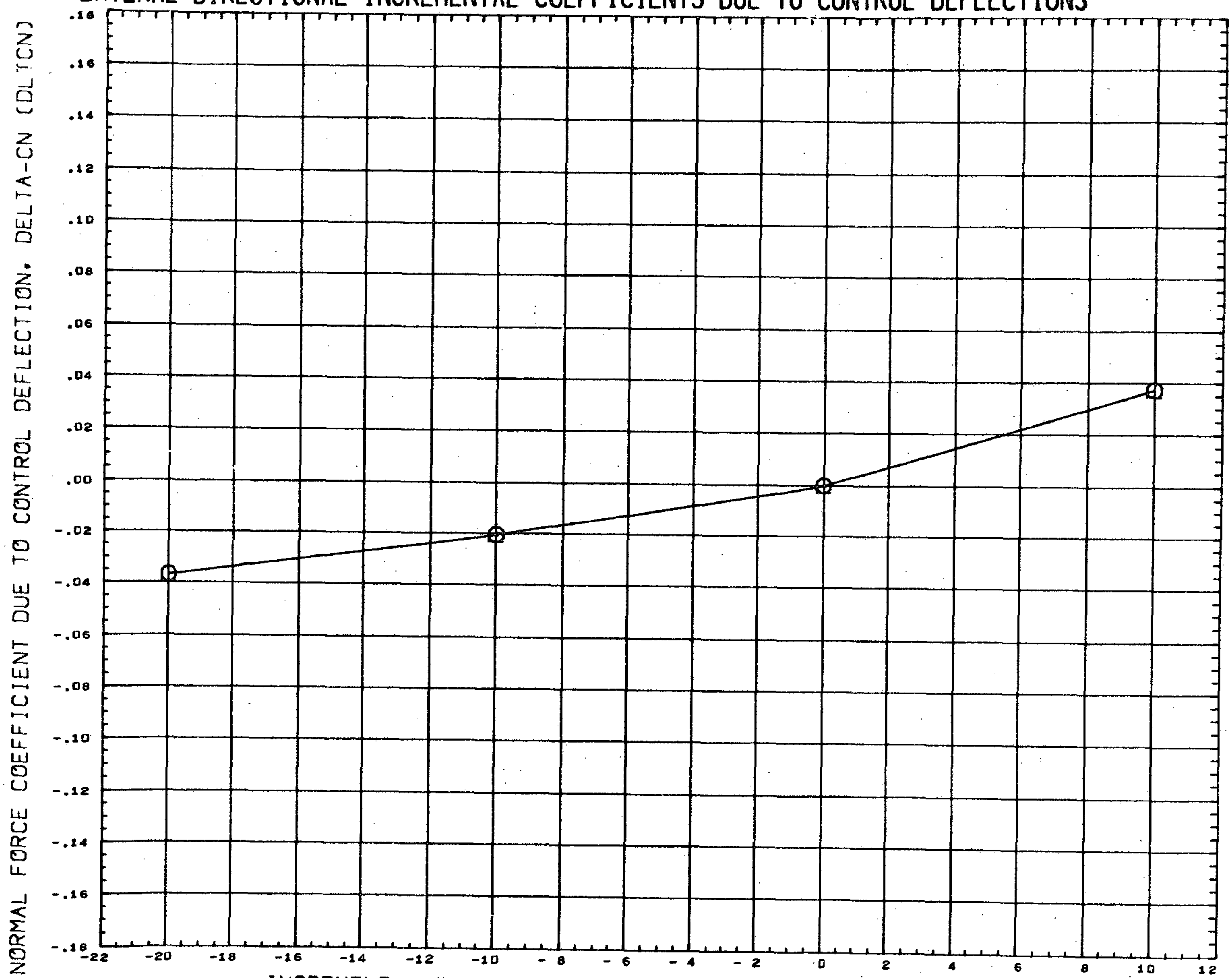
DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

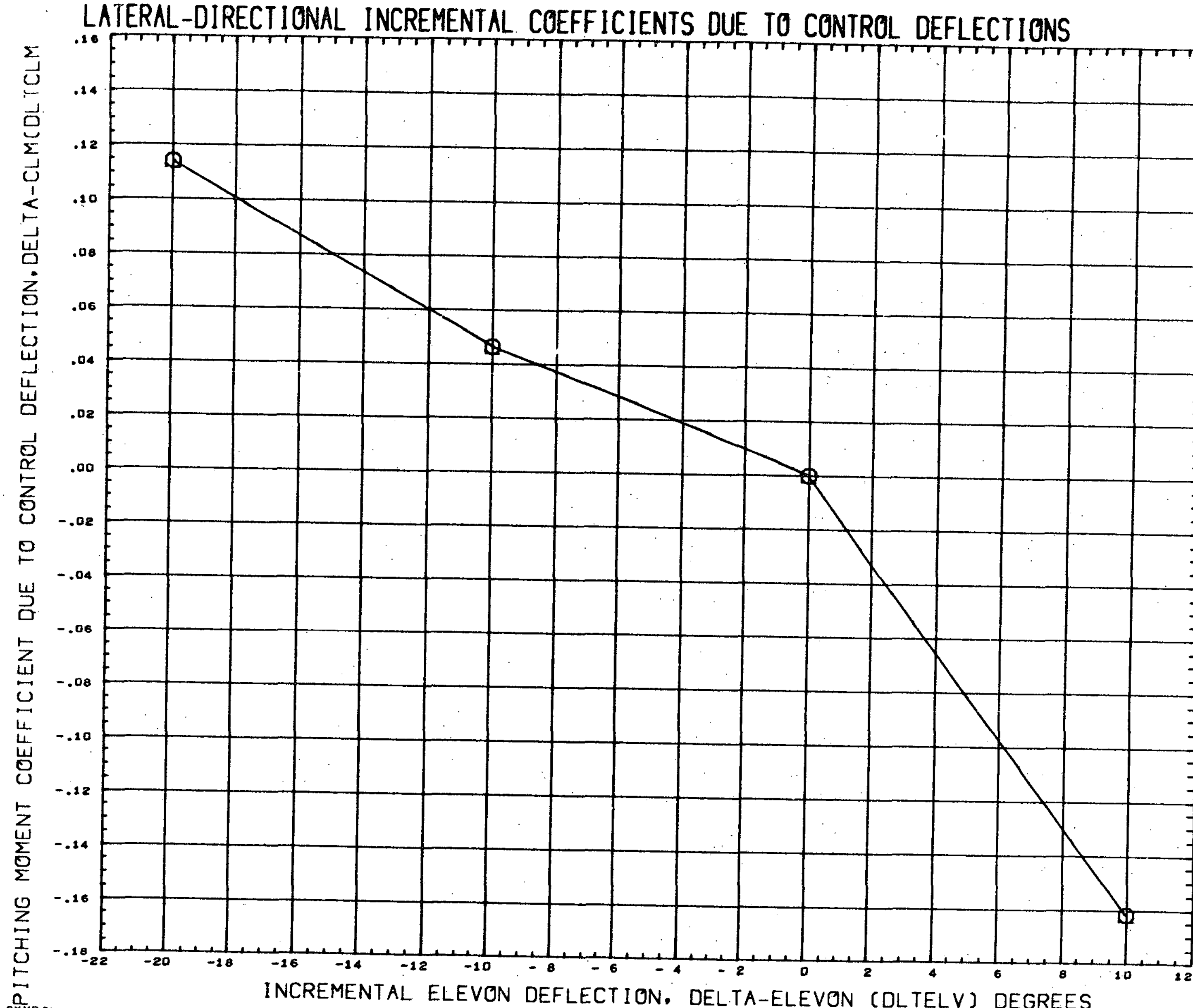
LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



INCREMENTAL ELEVON DEFLECTION, DELTA-ELEVON (DLTELV) DEGREES

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
O	23.000	MACH	3.000	BETA	0.000	DATASET	DLTELV	DATASET	DLTELV	SREF	14.9040	SQ.IN.
		CANARD	0.000	RUDDER	0.000	S35EAB	- 20.000	S35EAC	- 10.000	LREF	3.0120	IN.
						S35EAO	0.000	S35EAA	10.000	BREF	6.0180	IN.
										XMRP	7.2990	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA
O	5.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

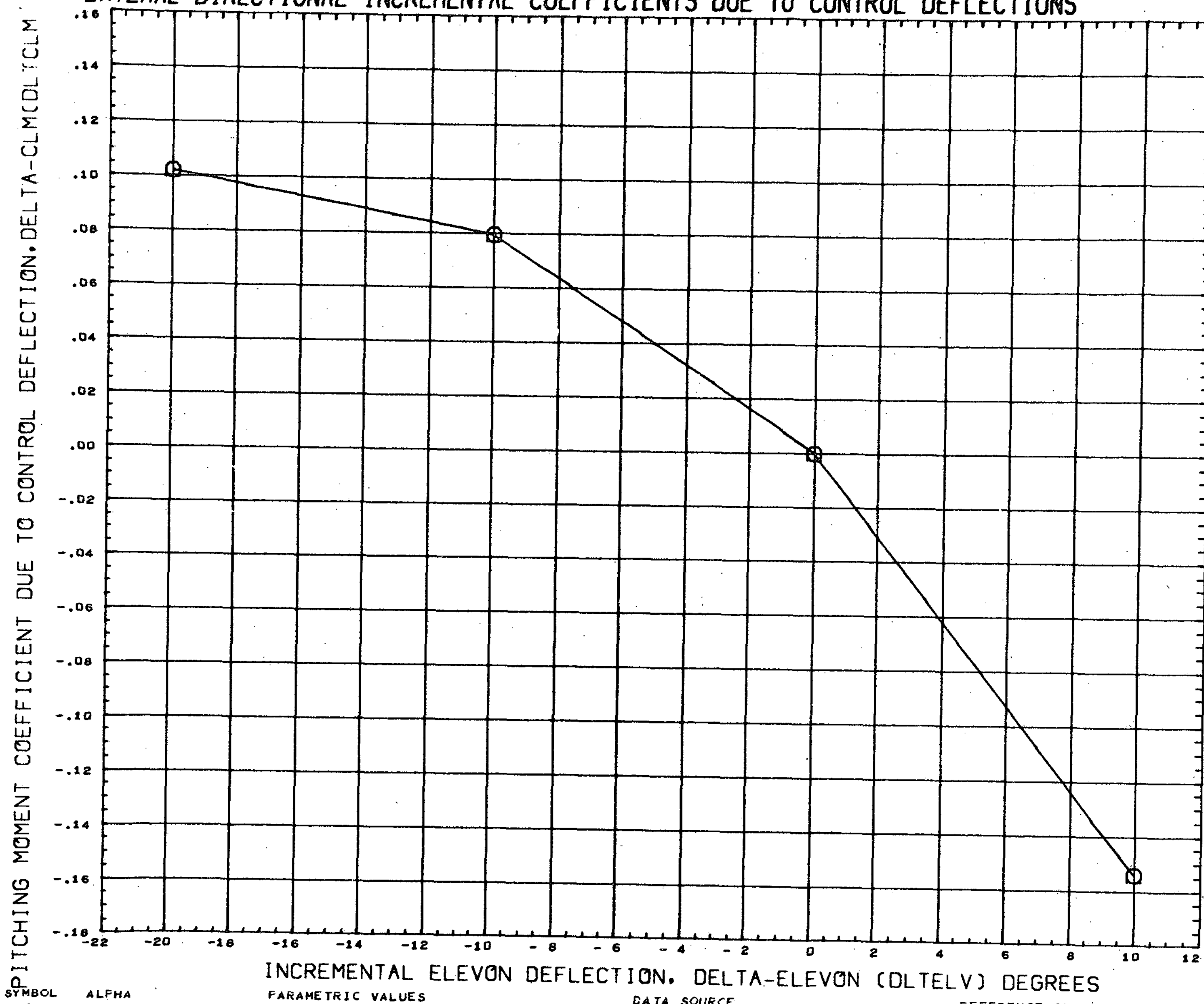
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA		PARAMETRIC VALUES		
○	10.000	MACH	0.900	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

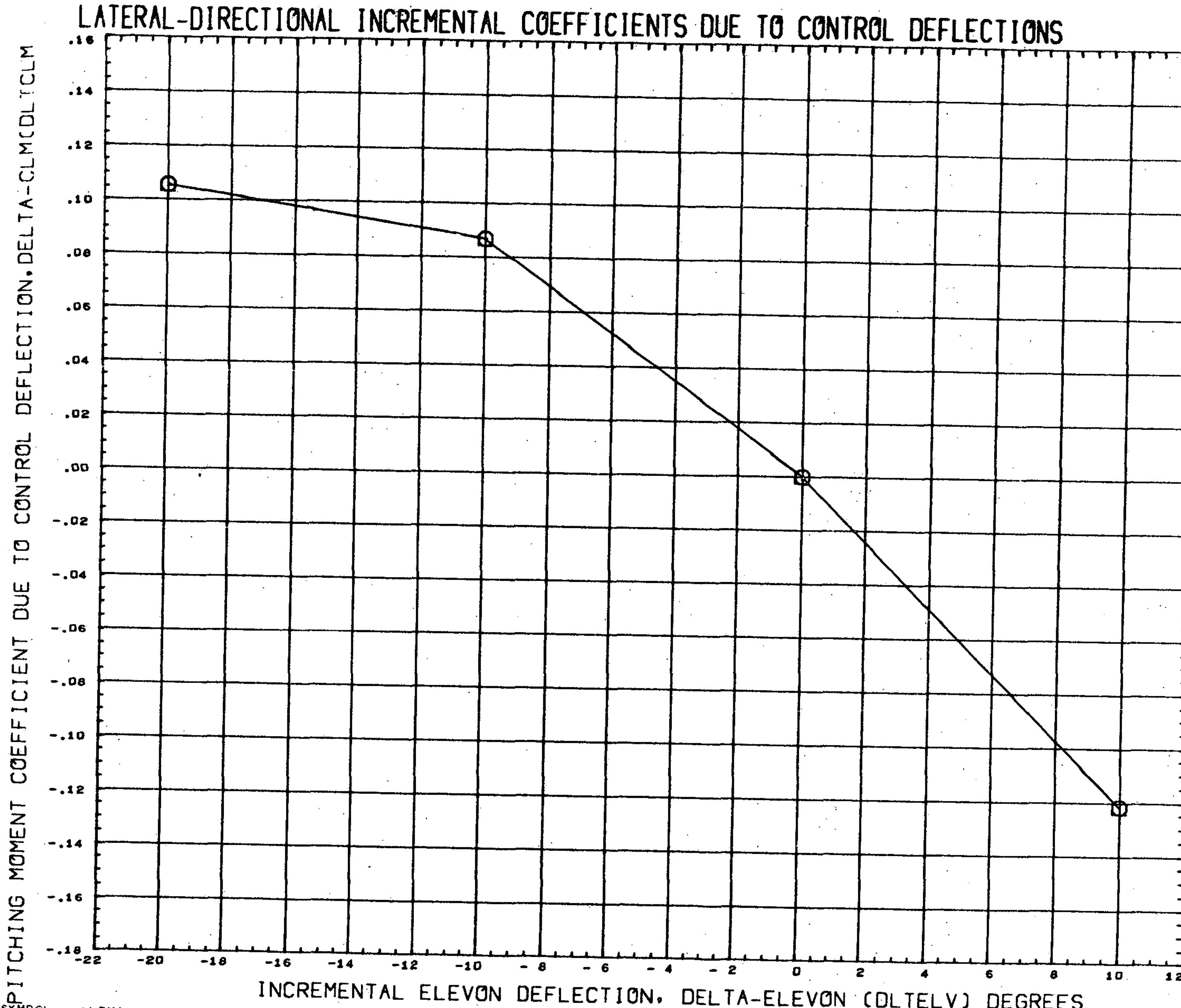
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

M-493GD/C B25W19C8V10, ELEVON INCREMENTS(EAO-EAO) (S35EAB) 22 SEP 71



SYMBOL	ALPHA
◻	15.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

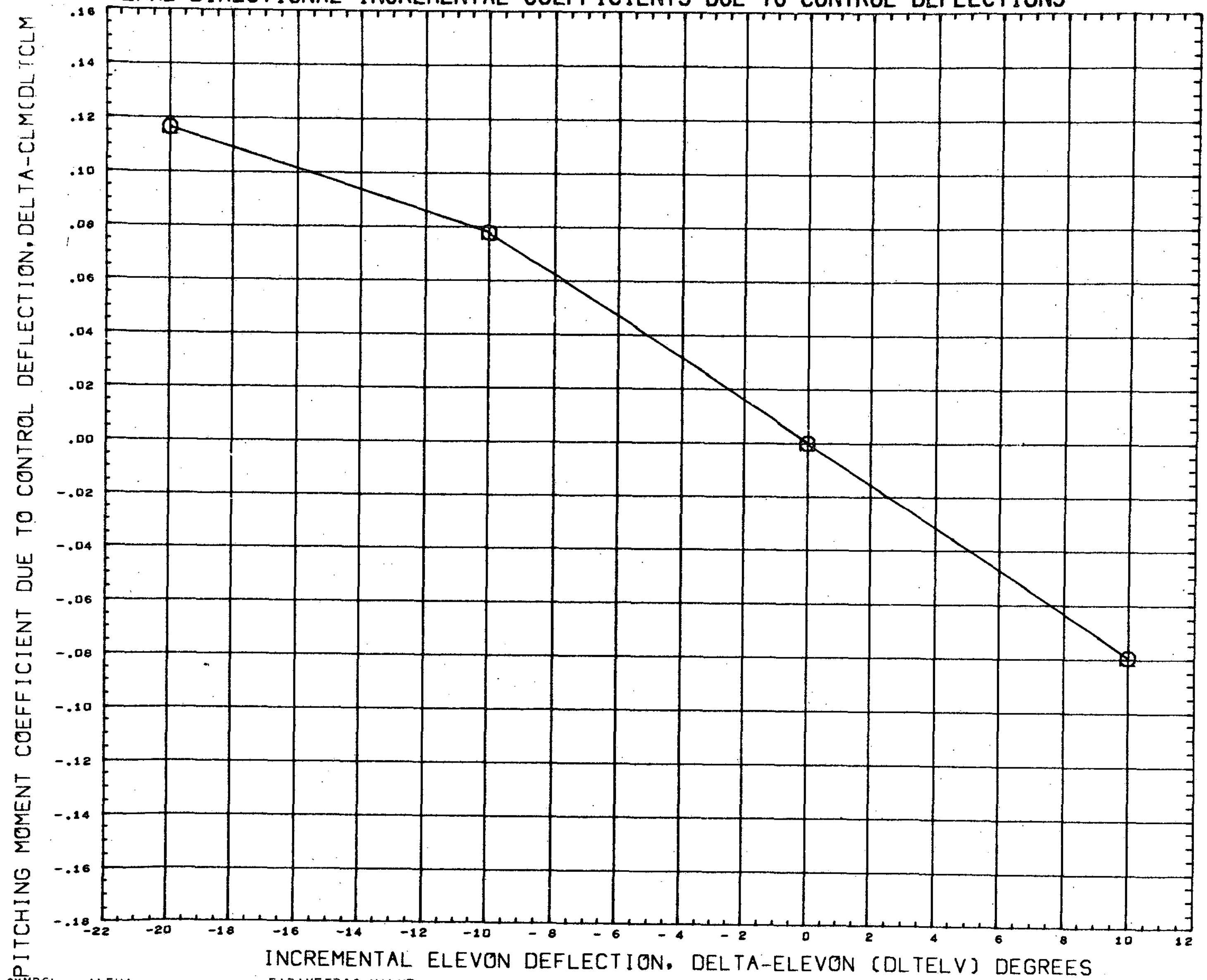
REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

M-493GD/C B25W19C8V10,ELEVON INCREMENTS(EA0-EA0) (S35EAB) 22 SEP 71 PAGE 356

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS

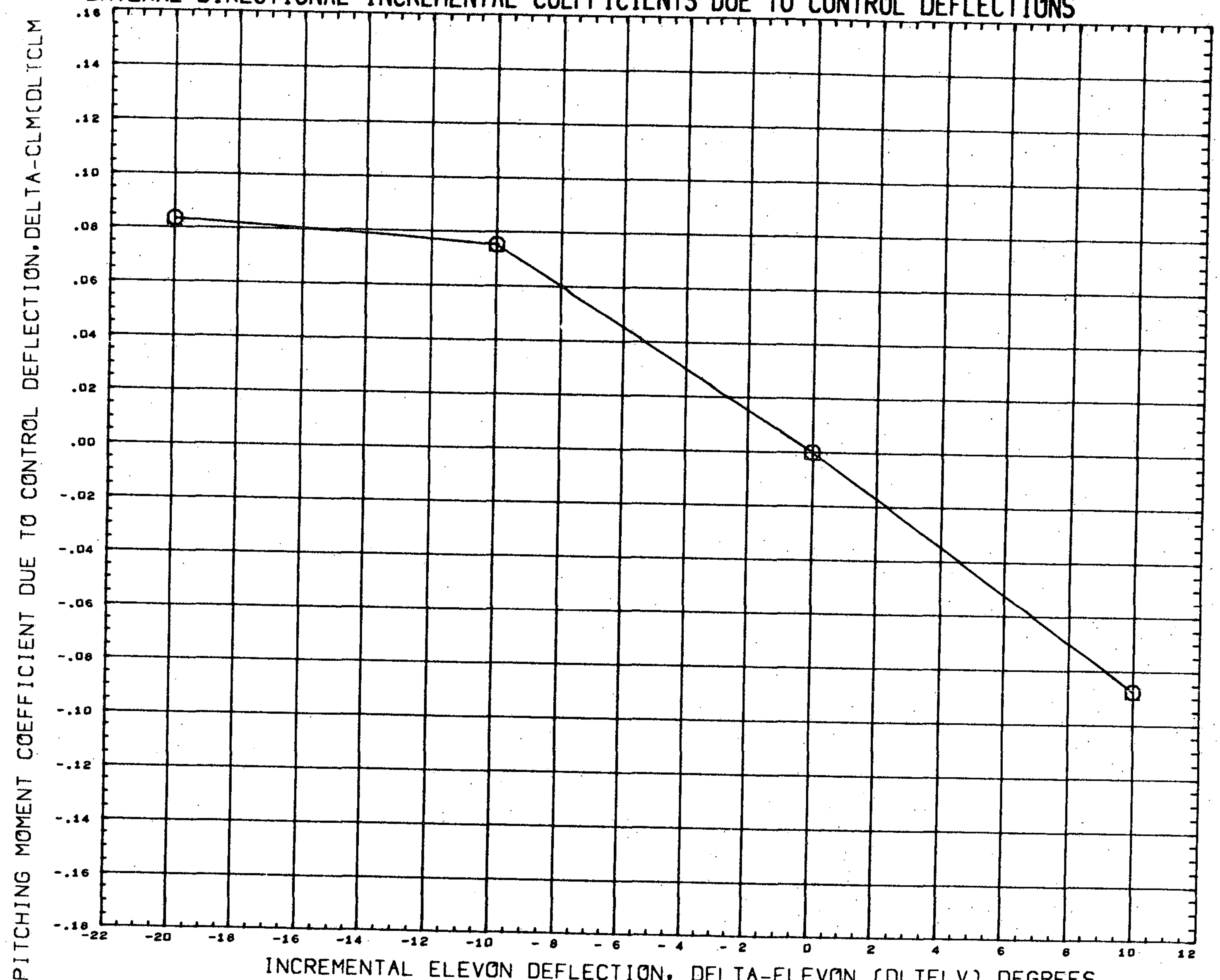


SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
						DATASET	DLTELV	DATASET	DLTELV	SREF	14.9040	SQ.IN.
◻	20.000	MACH	0.900	BETA	0.000	S35EAB	-20.000	S35EAC	-10.000	LREF	3.0120	IN.
		CANARD	0.000	RUDDER	0.000	S35EAO	0.000	S35EAA	10.000	BREF	6.0180	IN.
										XMRP	7.2990	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE I#C

8 9

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	23.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

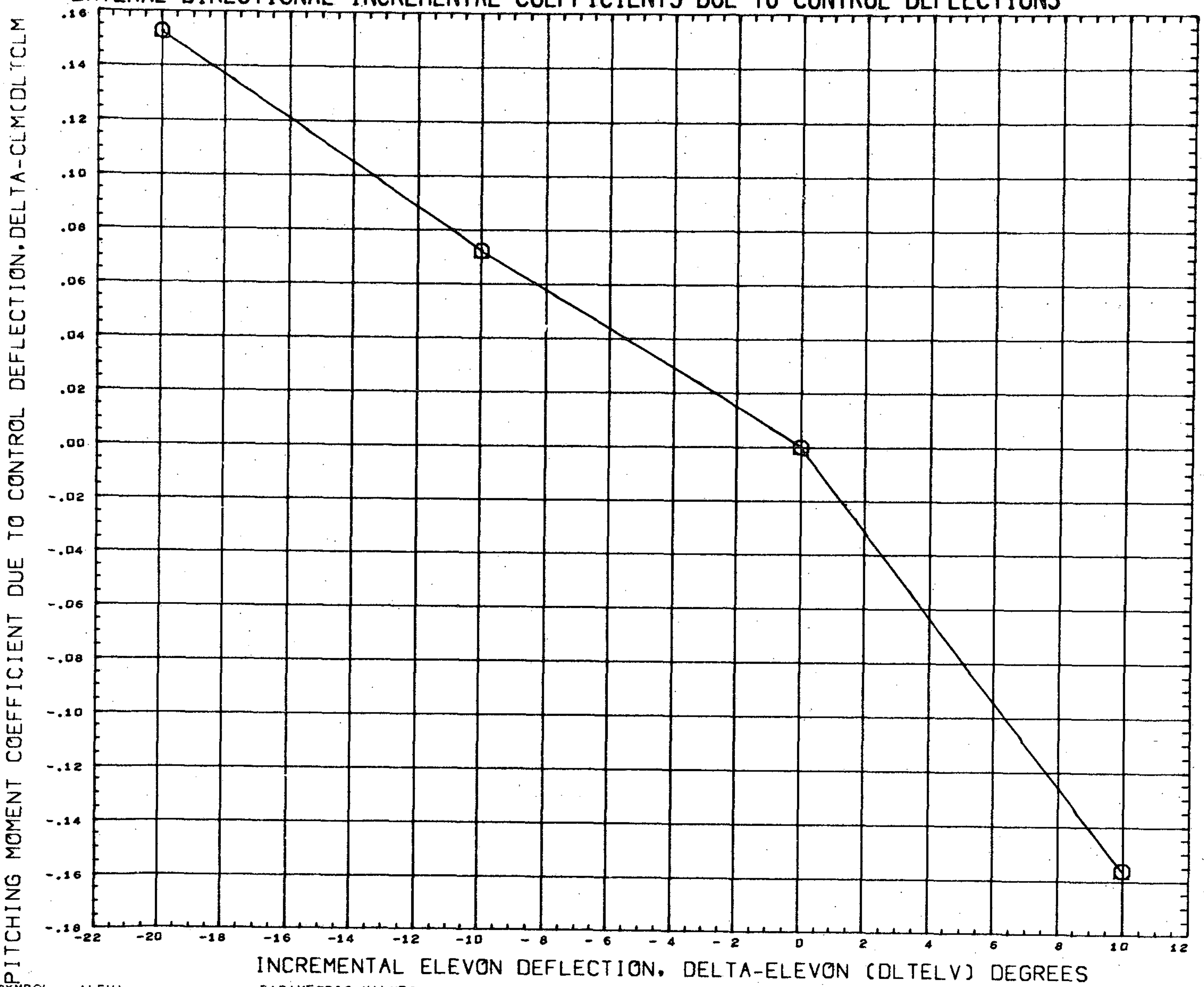
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
◻	5.000	MACH	1.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

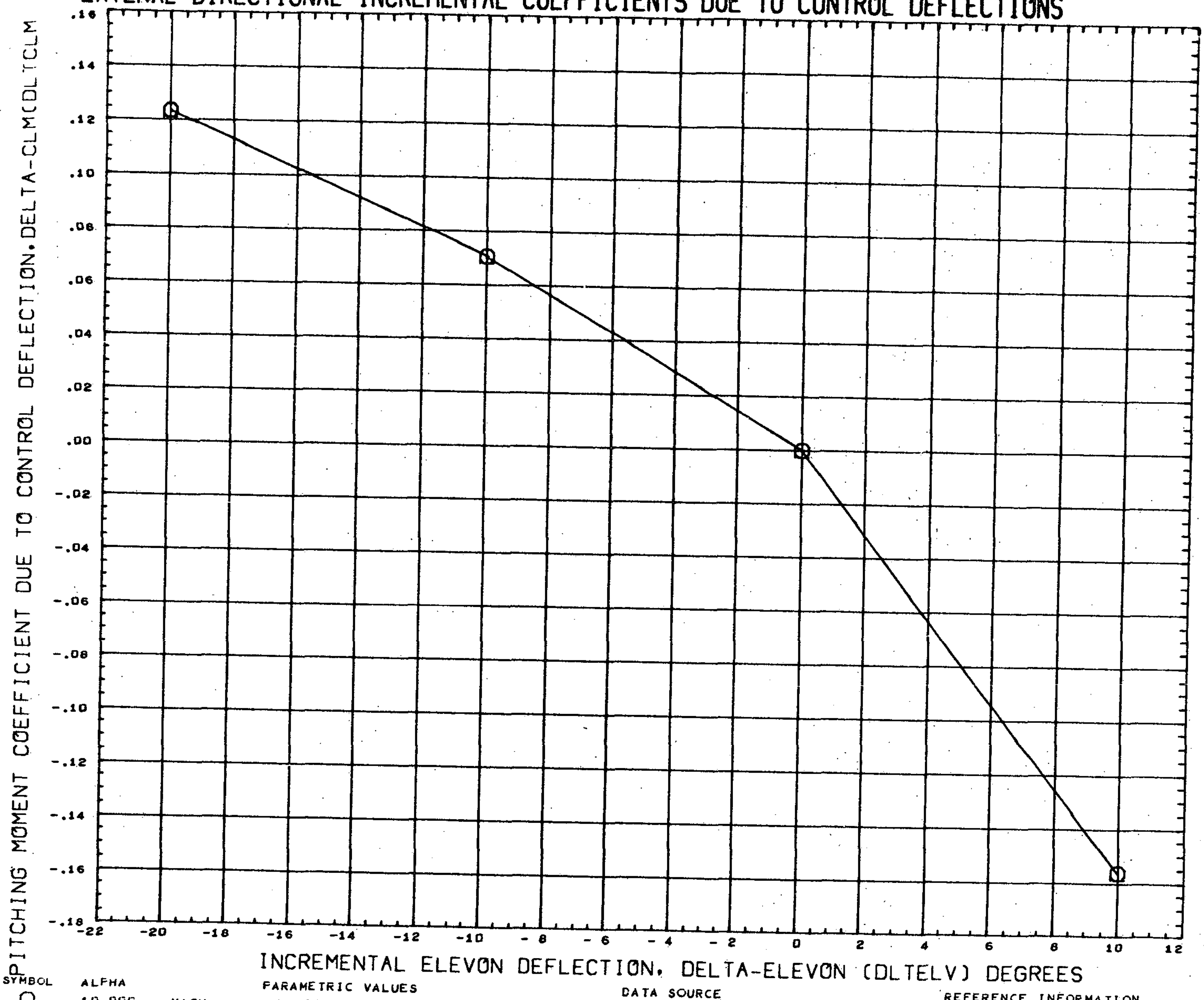
DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
○	10.000

PARAMETRIC VALUES

MACH	1.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

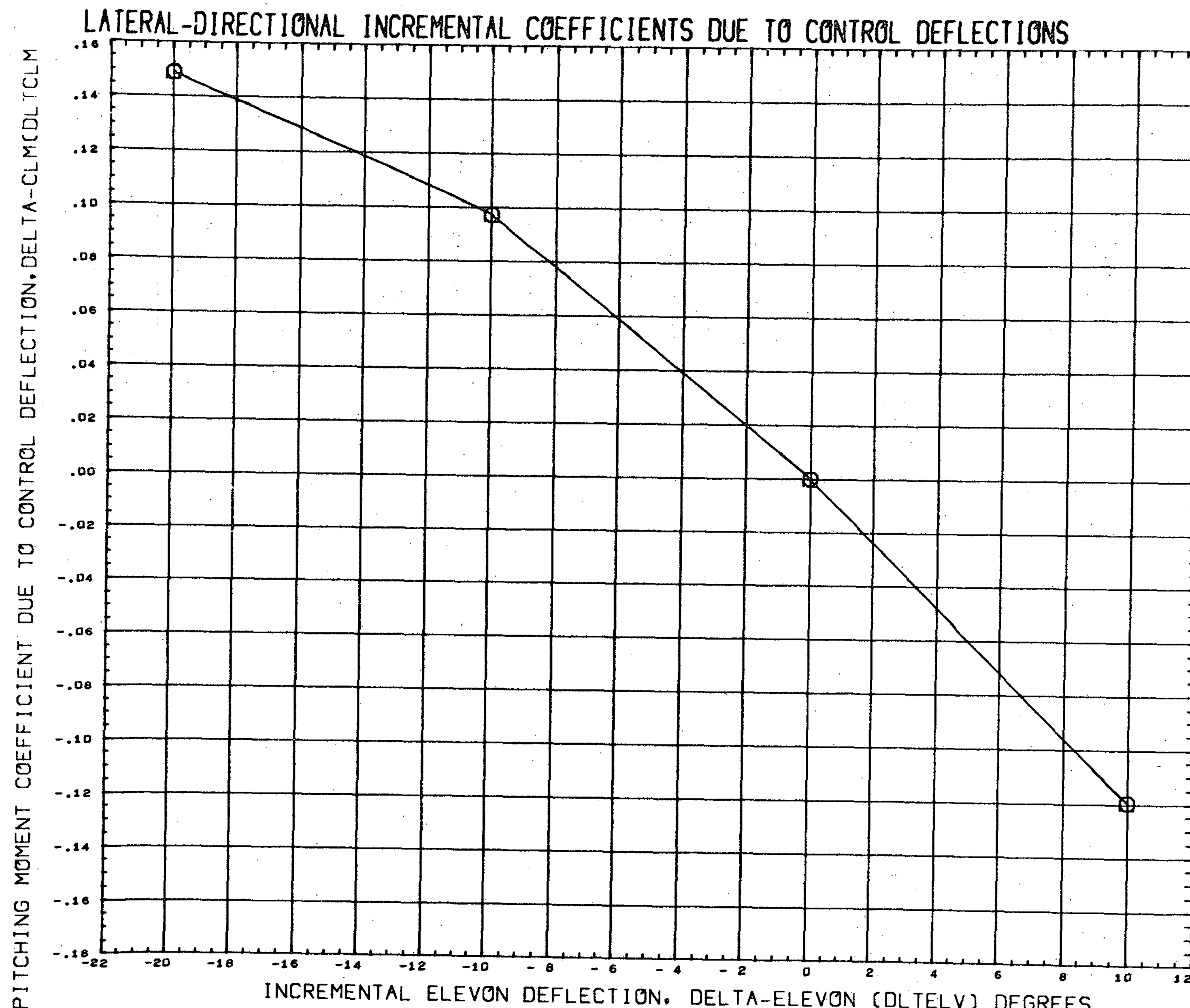
DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	15.000	MACH	1.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

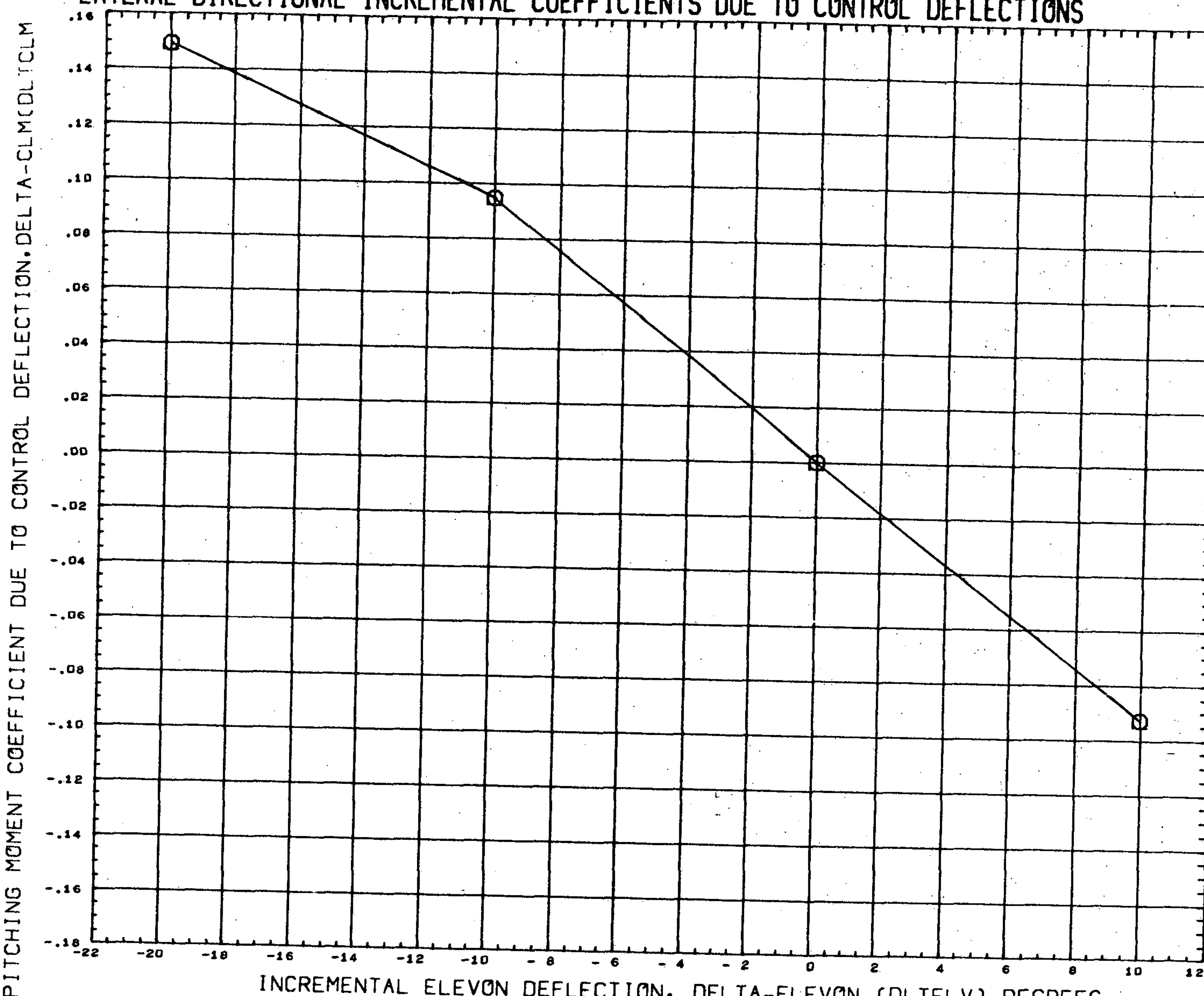
REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

M-493GD/C B25W19C8V10, ELEVON INCREMENTS(EAO-EAO) (S35EAB) 22 SEP 71

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
◻	20.000

PARAMETRIC VALUES

MACH	1.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

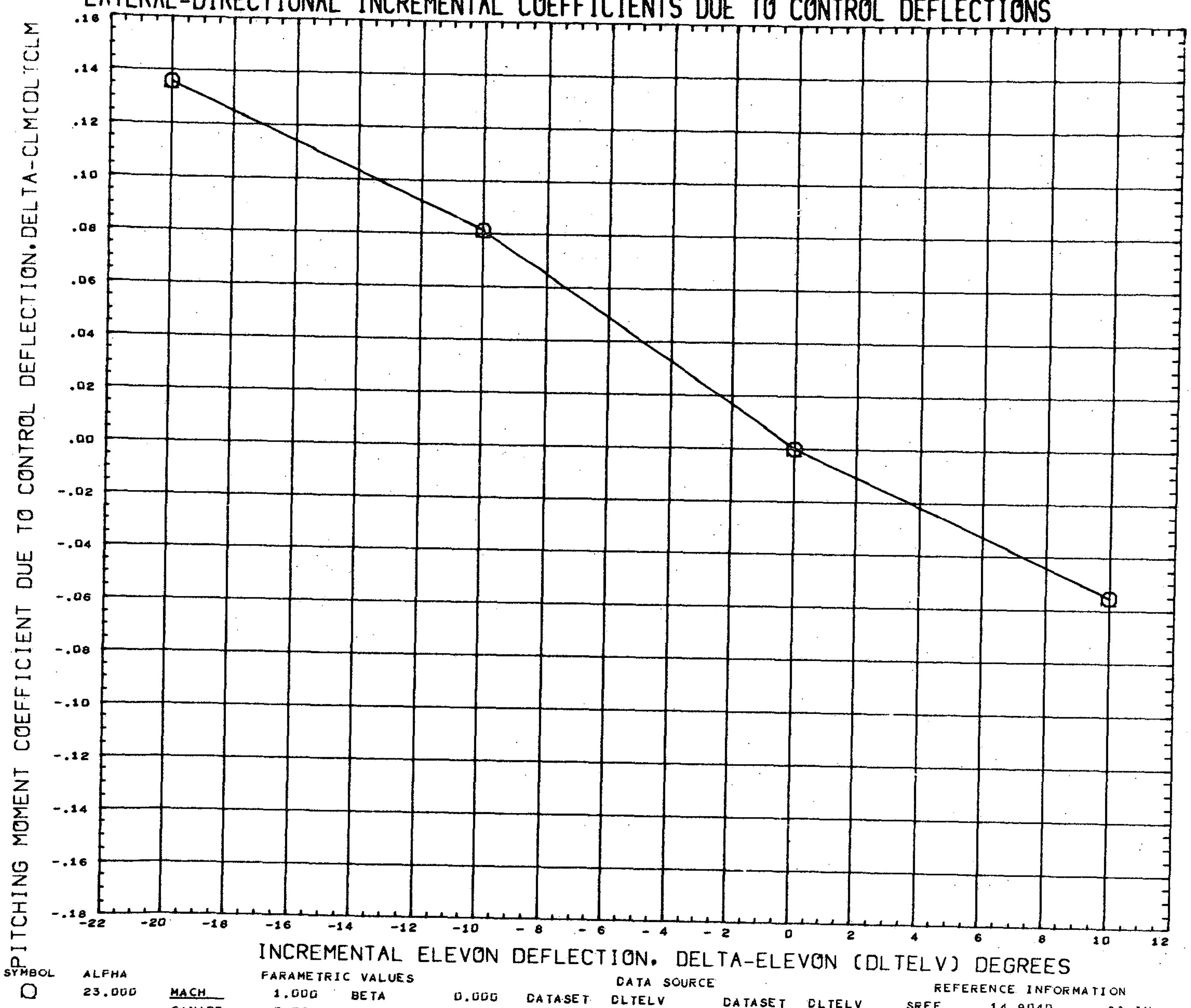
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	23.000	MACH	1.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS

SYMBOL	ALPHA
O	5.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

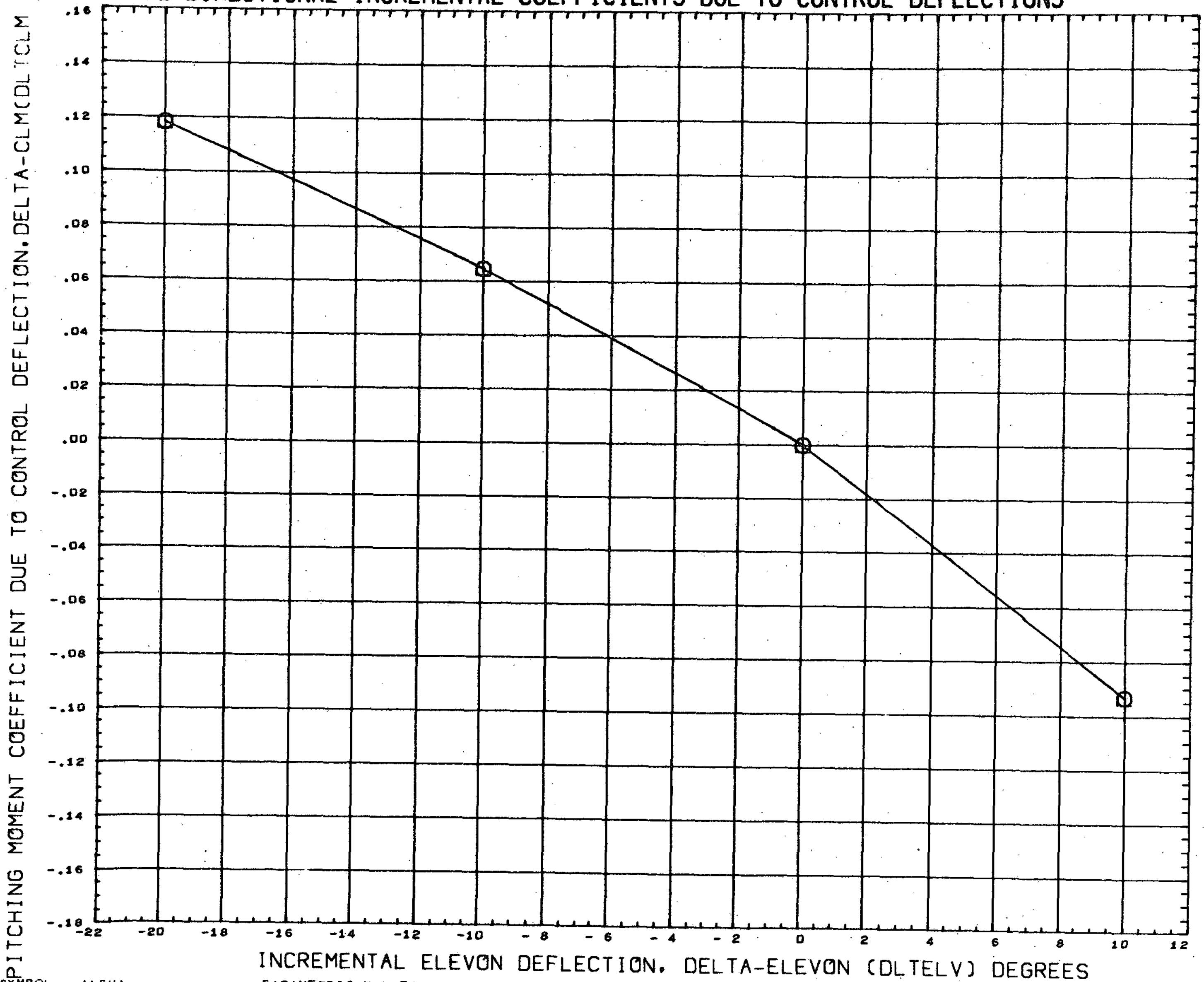
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EA0	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
▢	10.000	MACH	1.200	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EA0	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS

SYMBOL	ALPHA	PARAMETRIC VALUES			
□	15.000	MACH	1.200	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

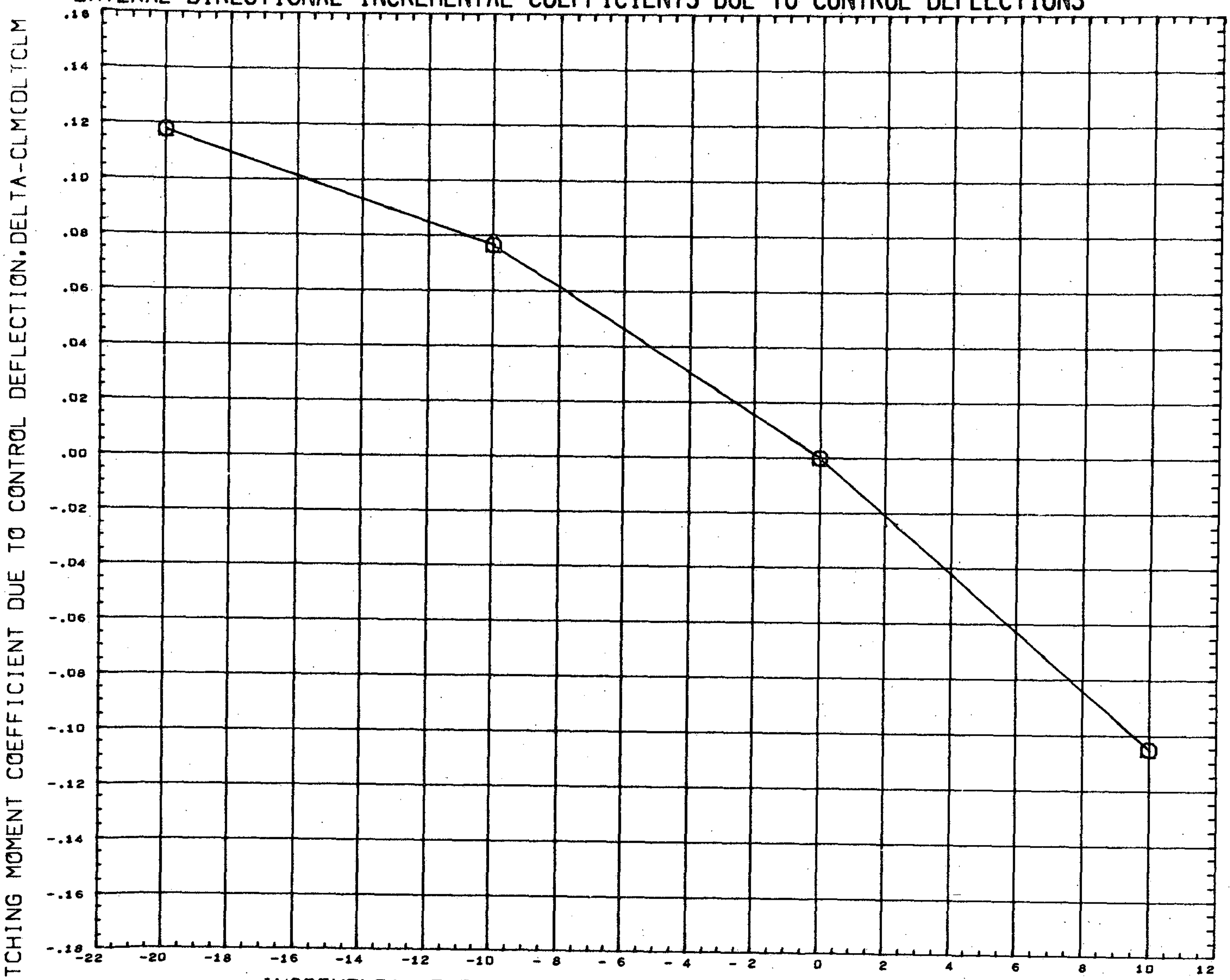
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I#C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
◻	20.000	MACH	1.200	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

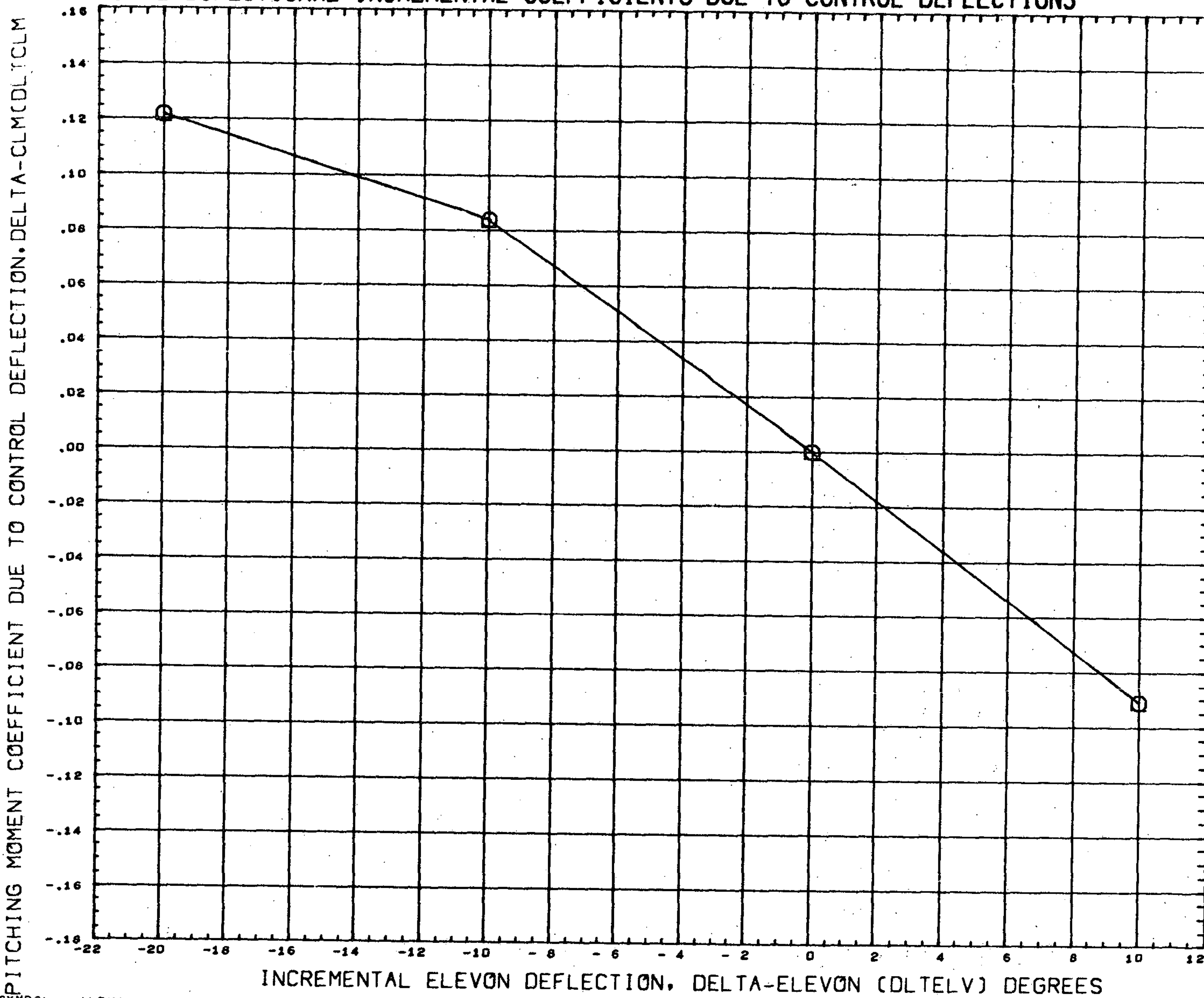
DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EA0	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

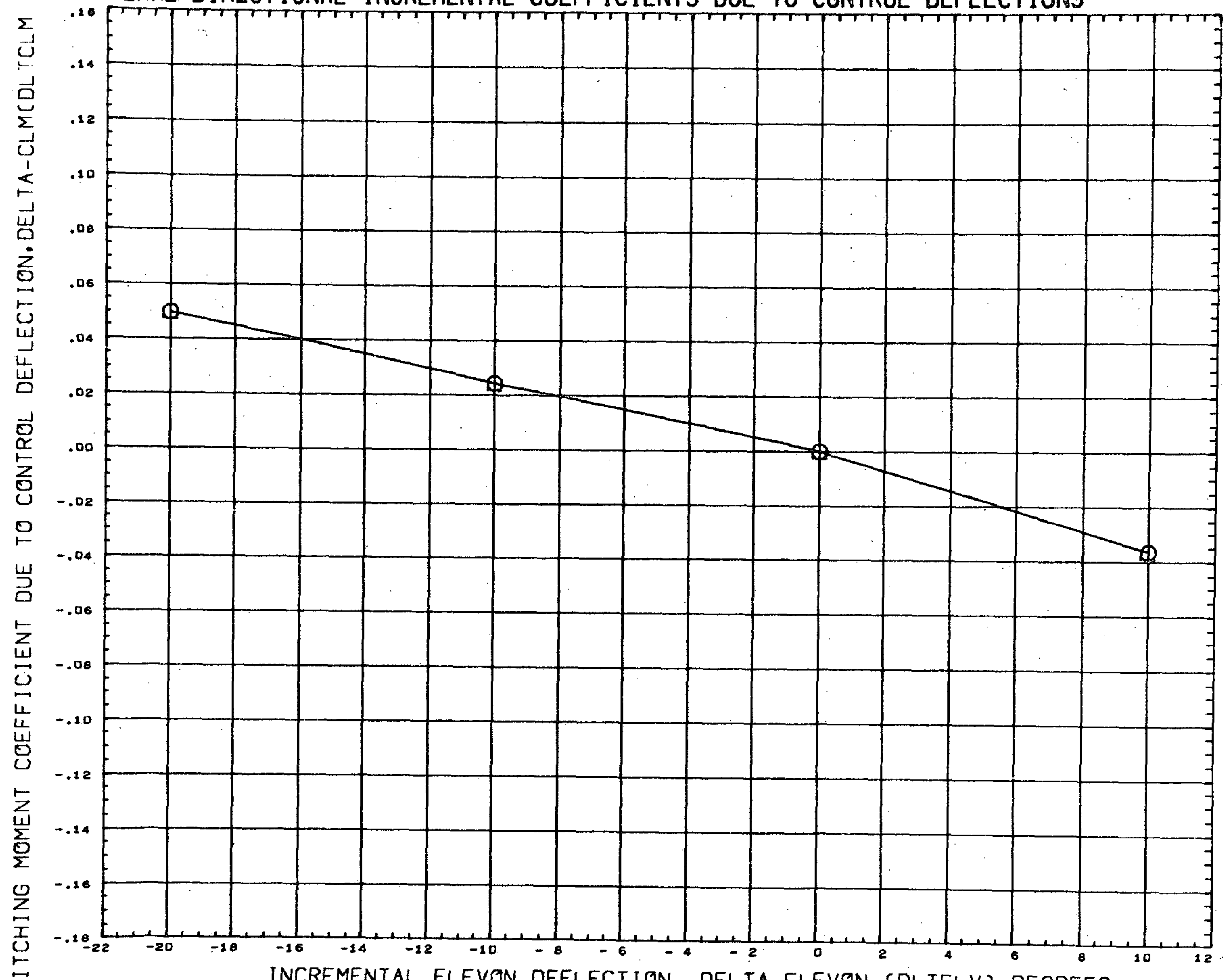
LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
◻	23.000	MACH	1.200	BETA	0.000	DATASET	DLTELV	DATASET	DLTELV	SREF	14.9040	SQ.IN.
		CANARD	0.000	RUDDER	0.000	S35EAB	- 20.000	S35EAC	- 10.000	LREF	3.0120	IN.
						S35EAO	0.000	S35EAA	10.000	BREF	6.0180	IN.
										XMRP	7.2990	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	5.000	MACH	2.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

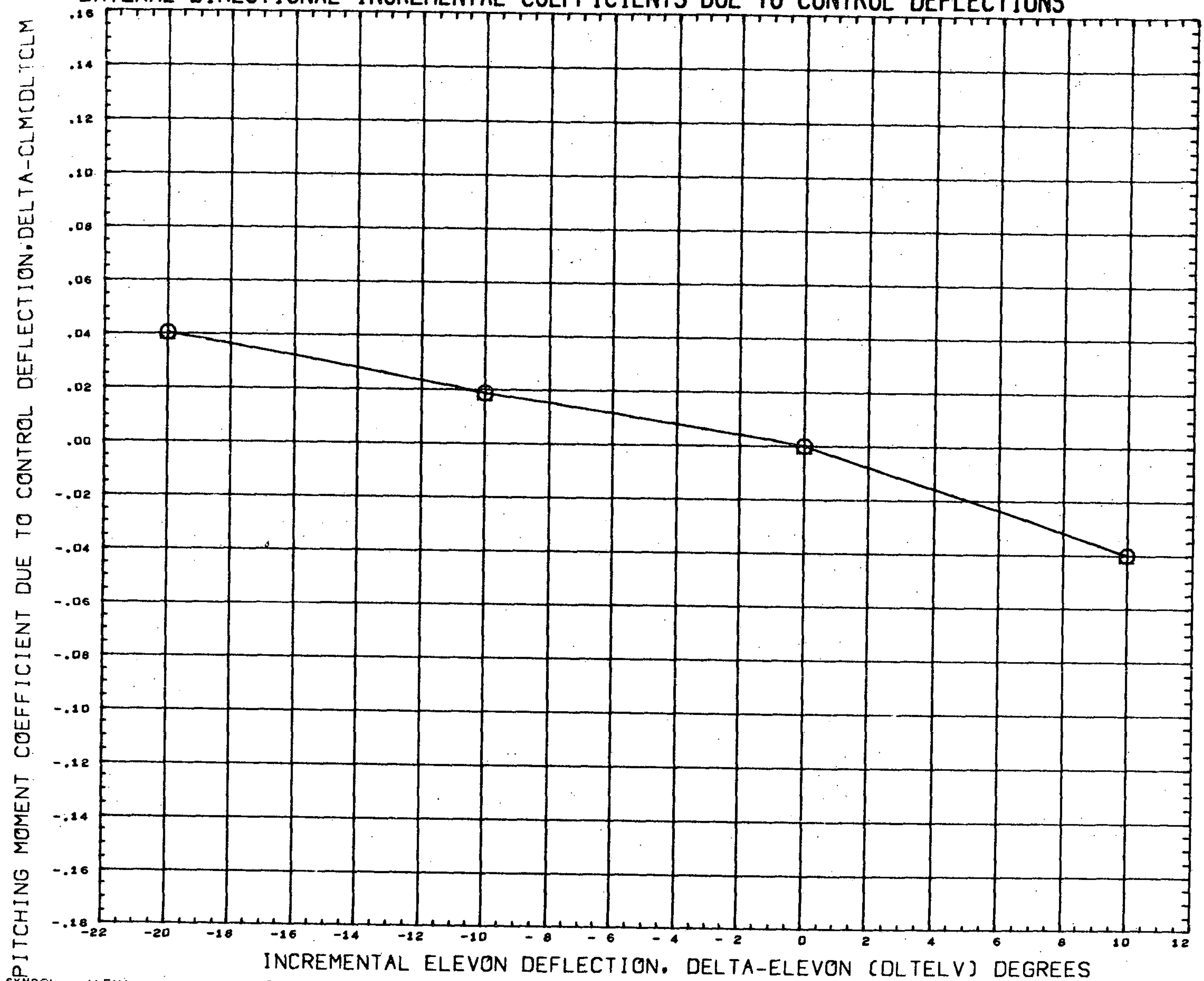
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL ALPHA
O 10.000

PARAMETRIC VALUES

MACH 2.000 BETA 0.000
CANARD 0.000 RUDDER 0.000

DATA SOURCE

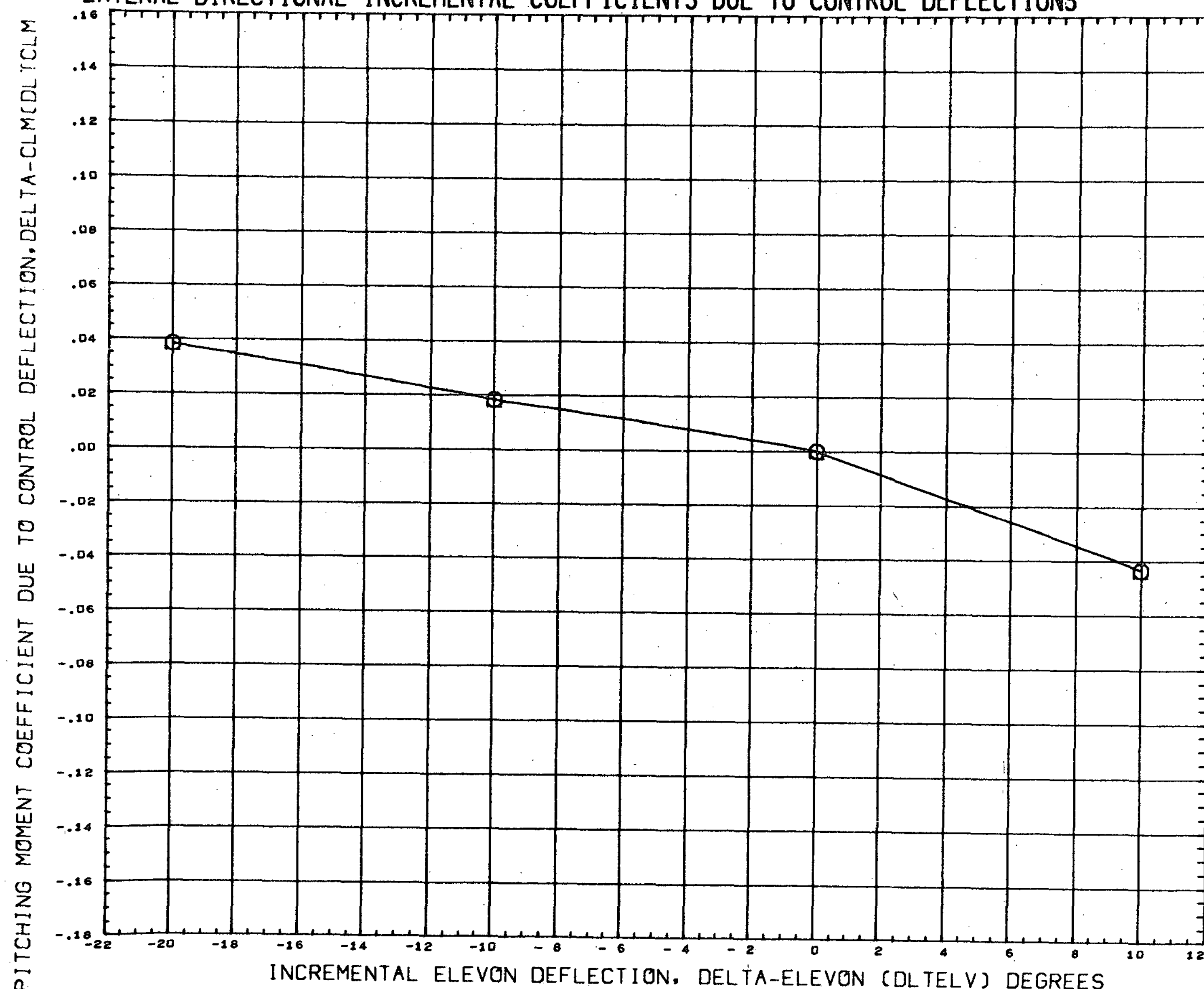
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	15.000	MACH	2.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

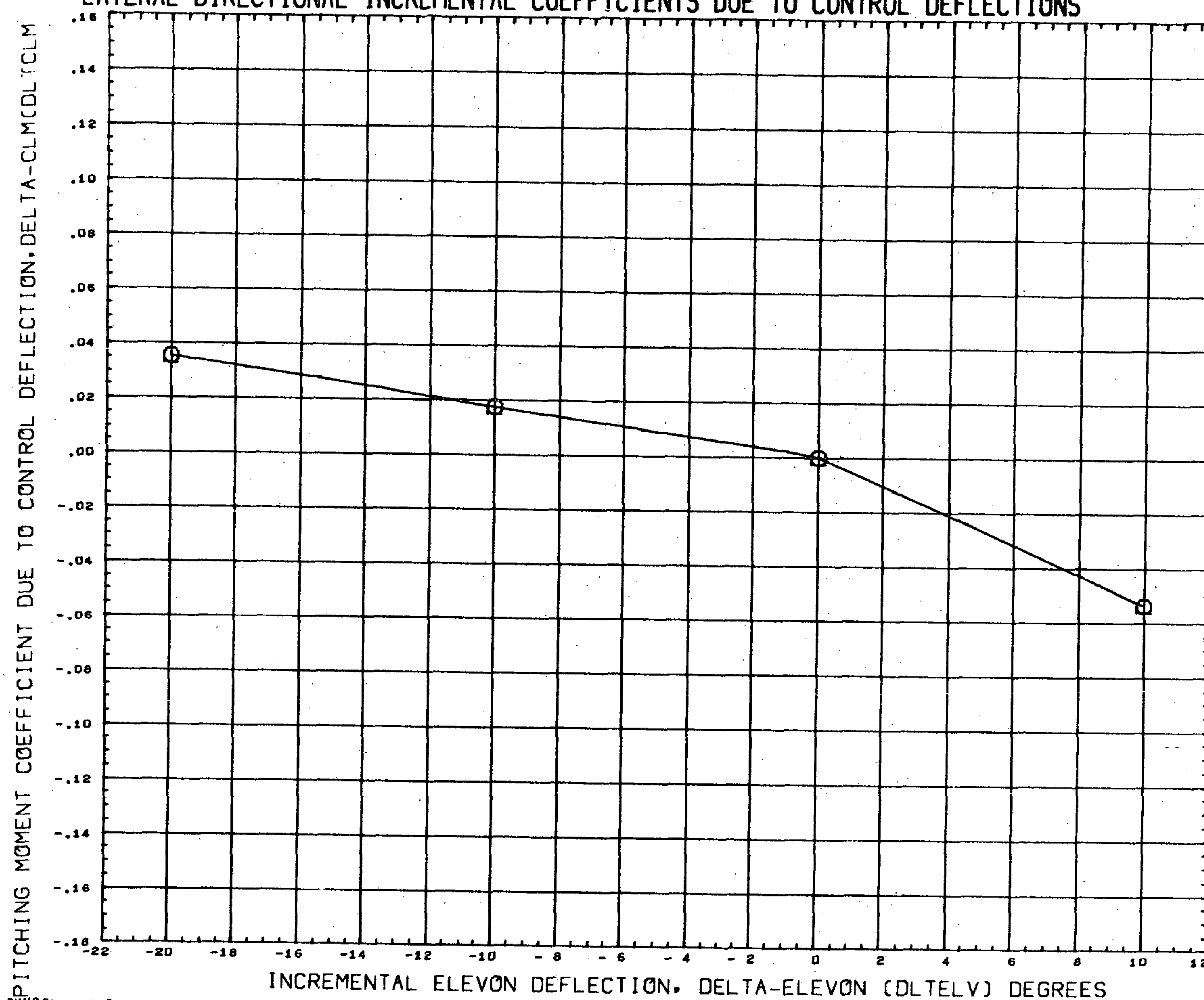
DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	20.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

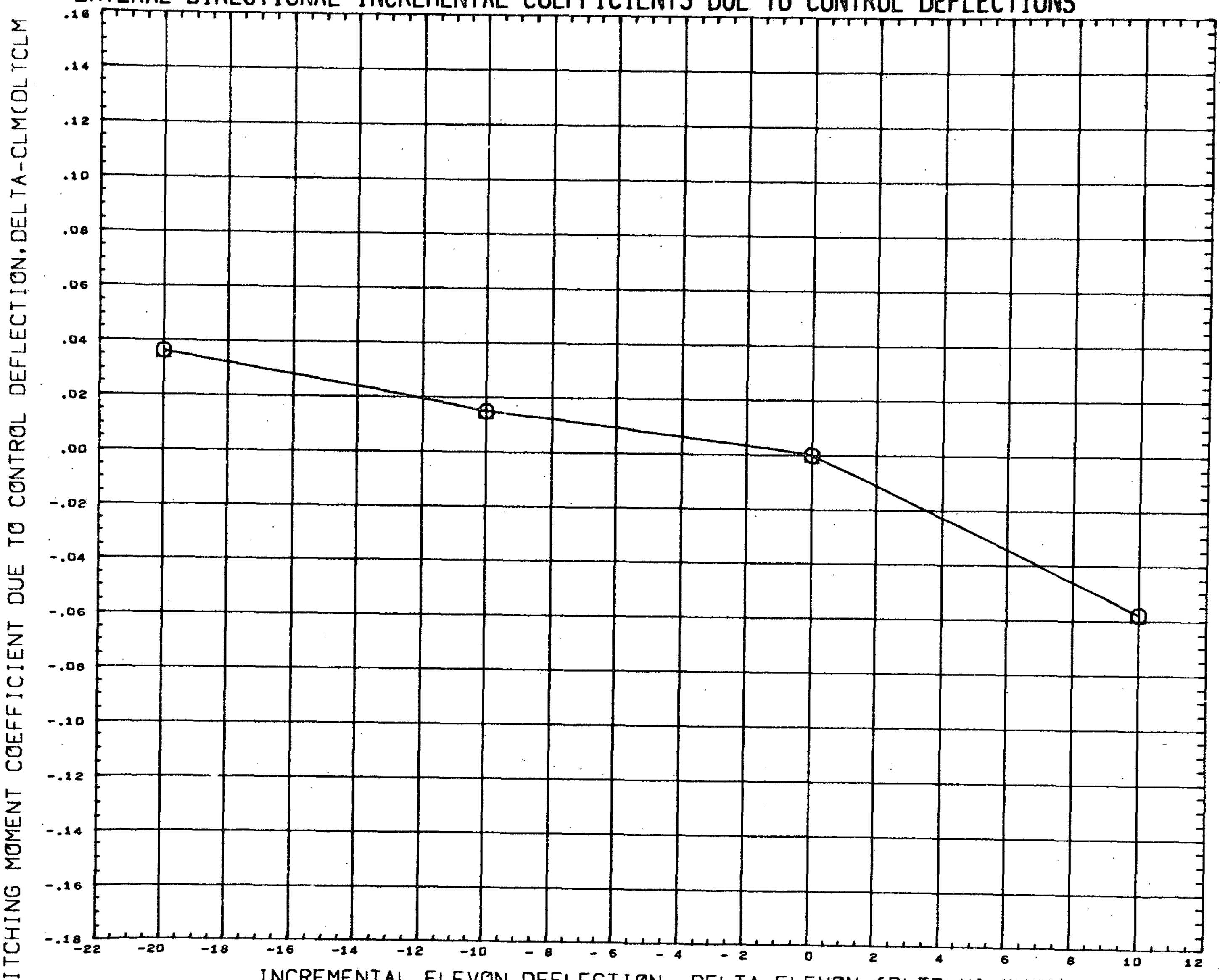
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	23.000	MACH	2.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

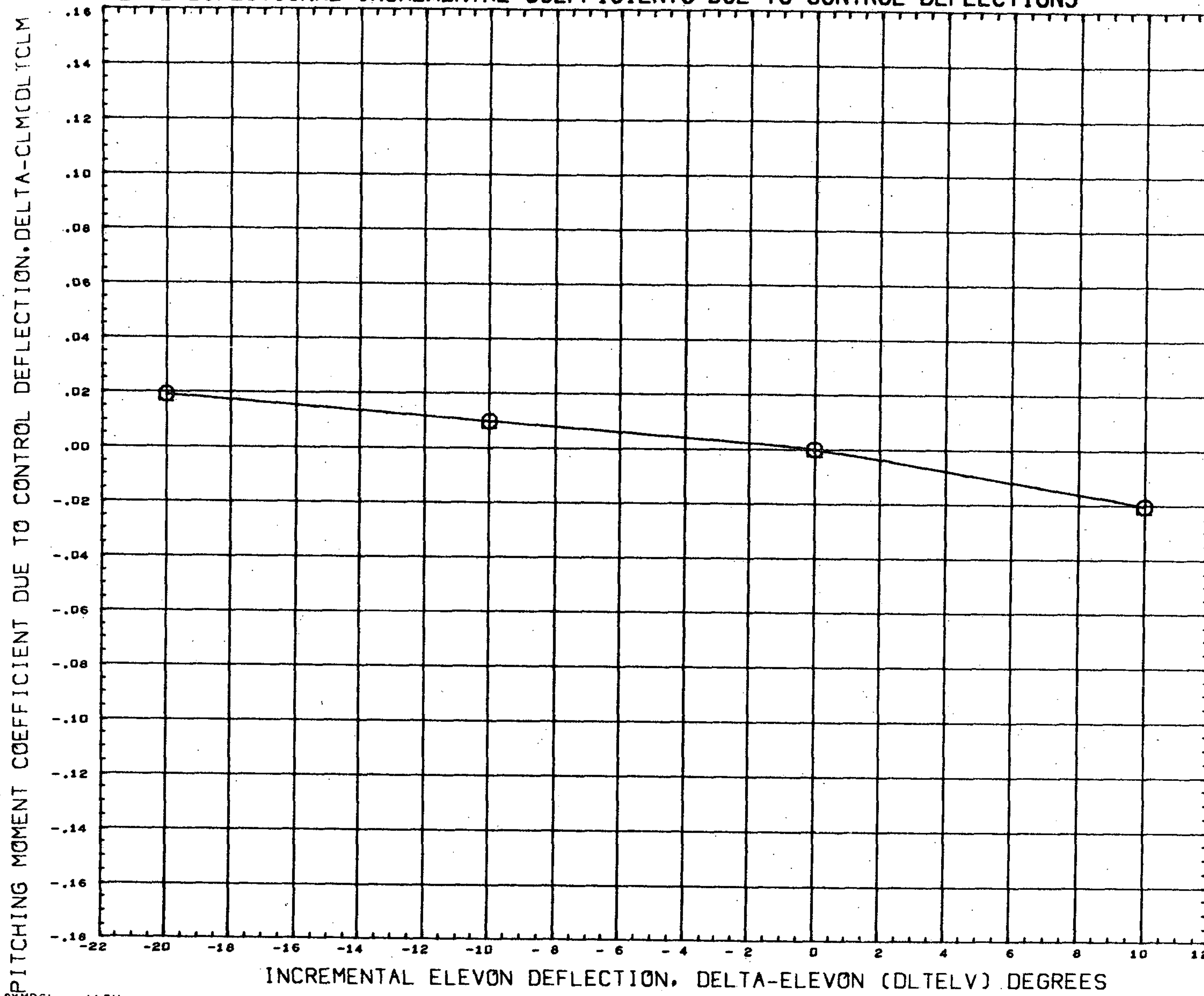
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
○	5.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

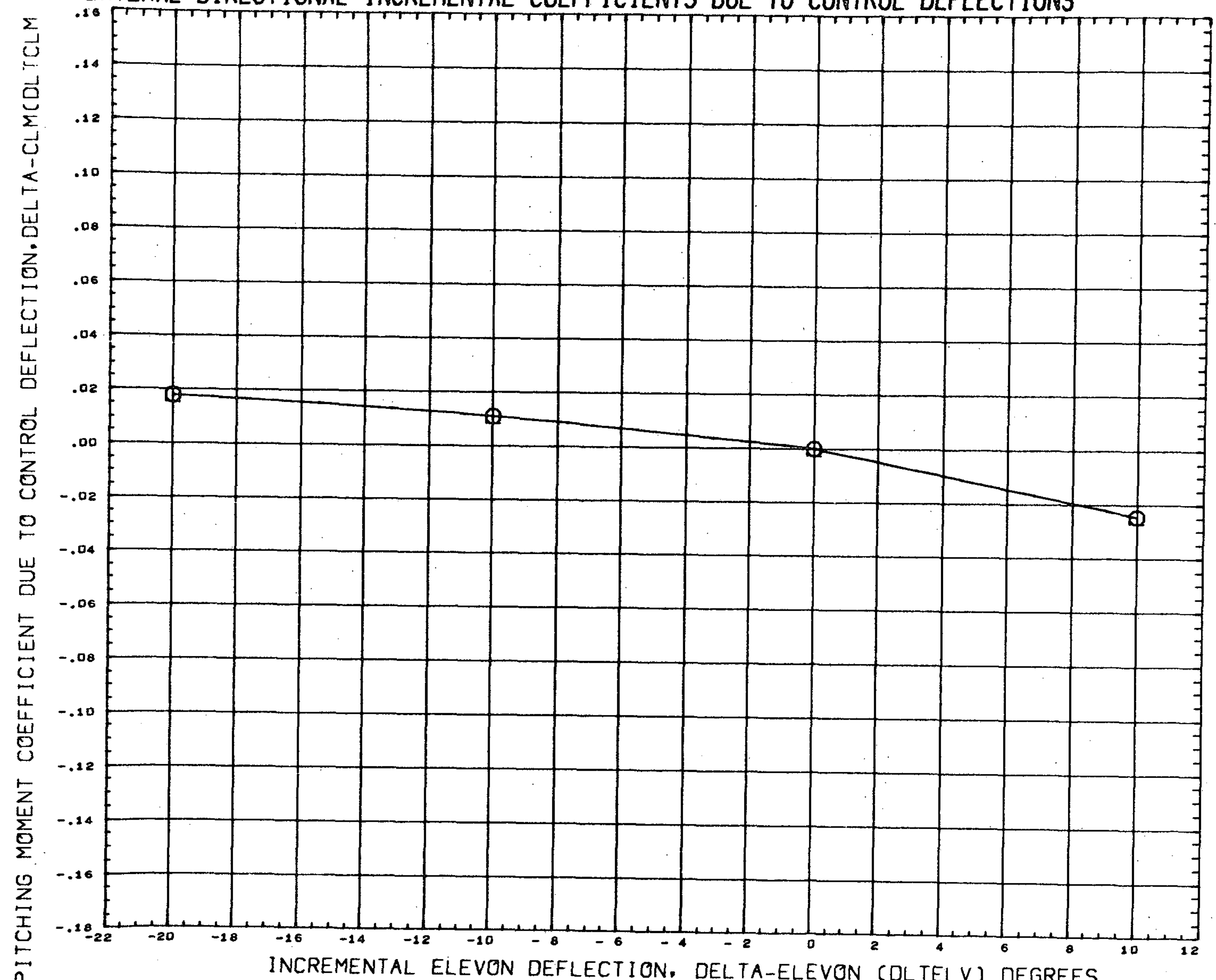
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	10.000	MACH	3.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

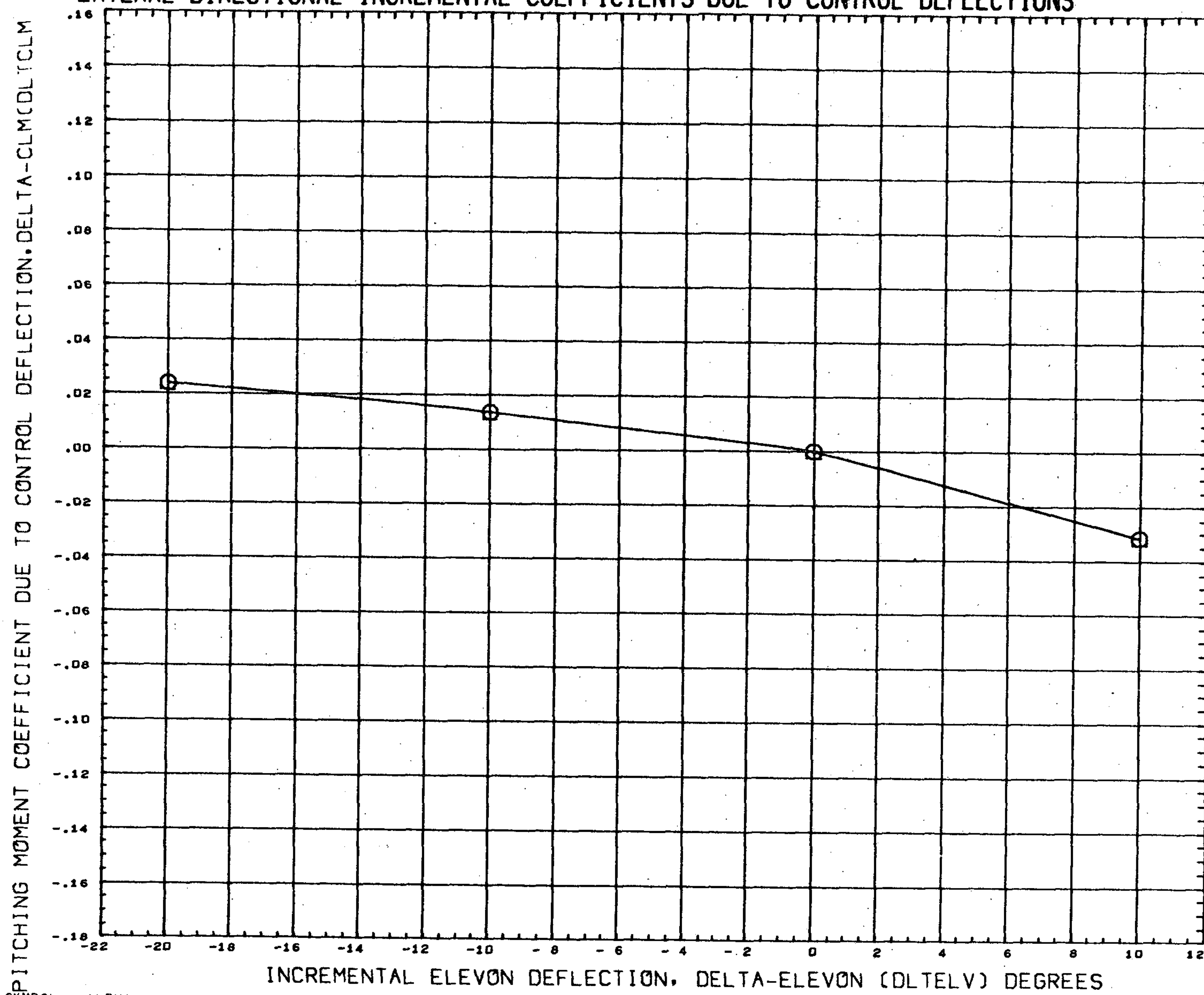
REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

M-493GD/C B25W19C8V10, ELEVON INCREMENTS(EA0-EA0) (S35EAB) 22 SEP 71

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
○	15.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

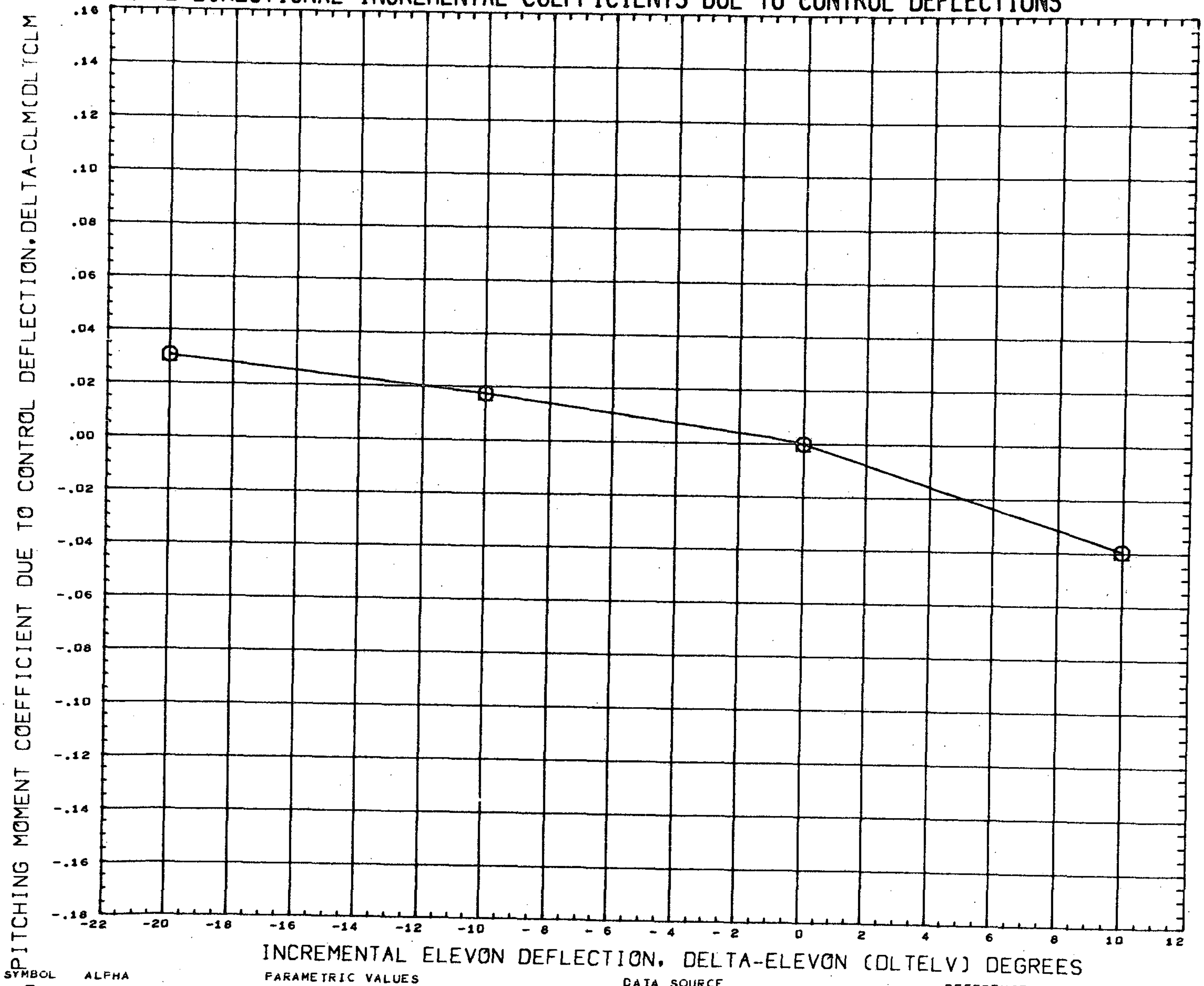
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	20.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

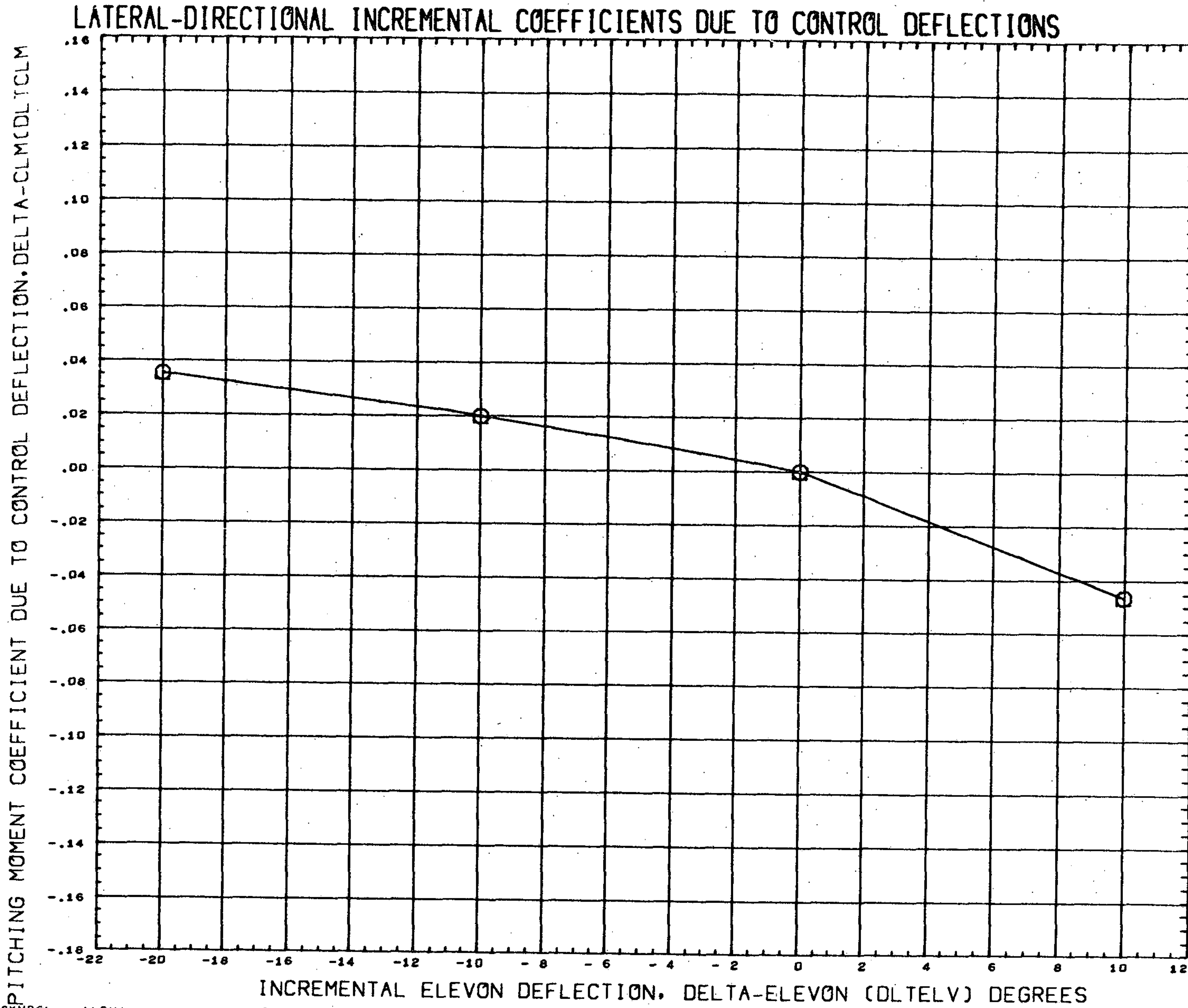
DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



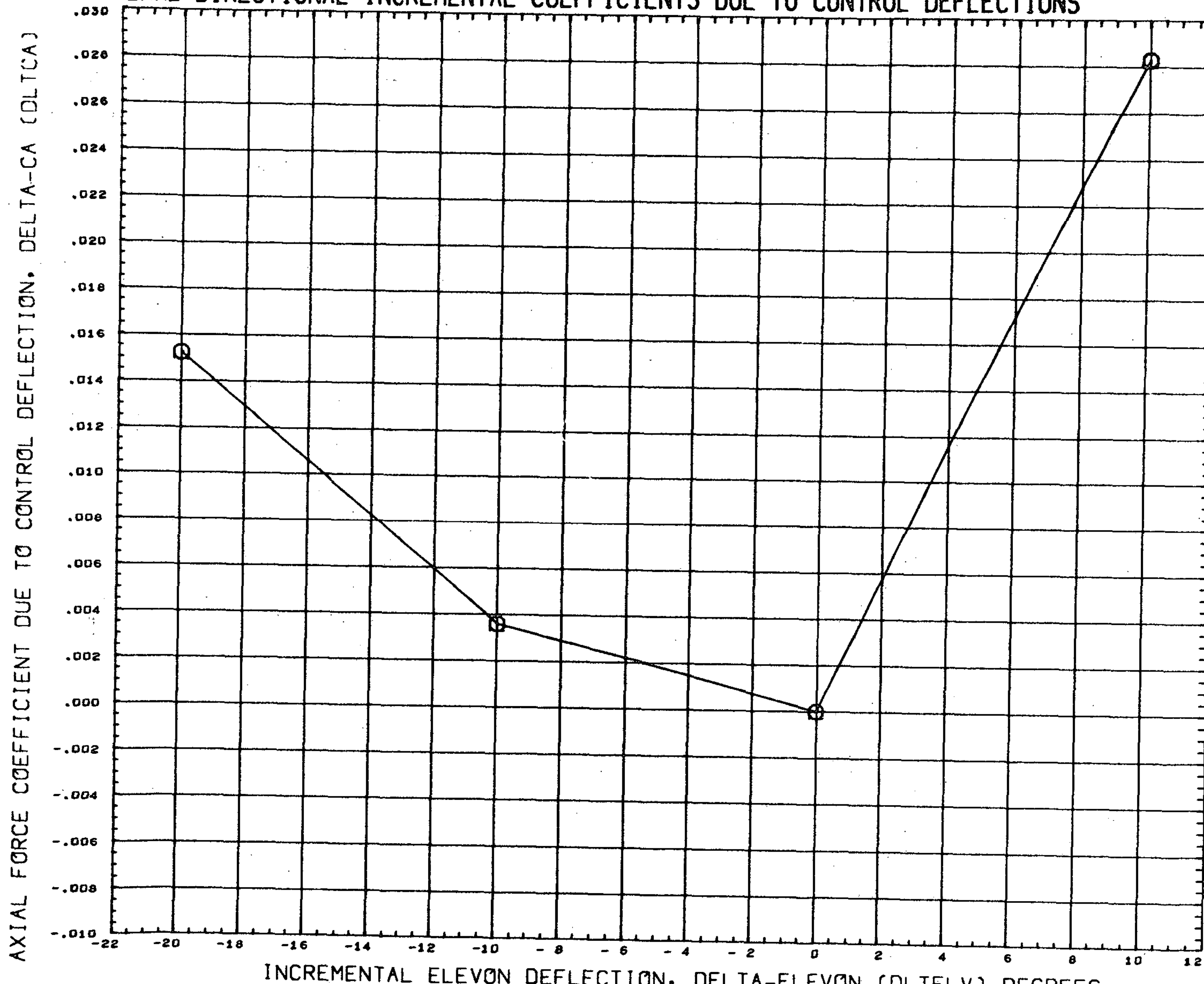
SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE			
						DATASET	DLTELV	DATASET	DLTELV
O	23.000	MACH	3.000	BETA	0.000	S35EAB	-20.000	S35EAC	-10.000
		CANARD	0.000	RUDDER	0.000	S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

M-493GD/C B25W19C8V10,ELEVON INCREMENTS(EA0-EA0) (S35EAB) 22 SEP 71

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	5.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
CANARD	0.000	RUDDER	0.000

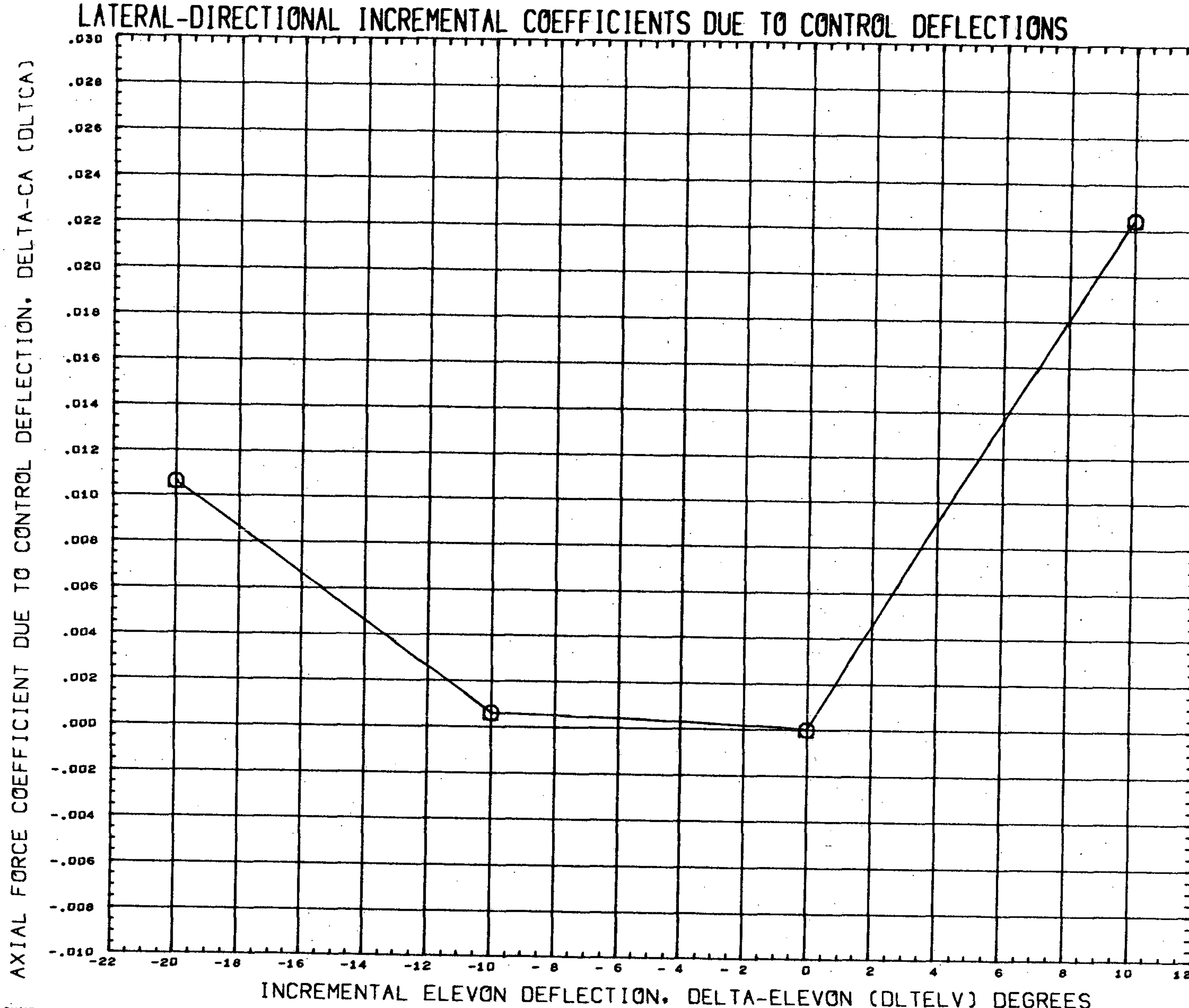
DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EA0	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA
O	10.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

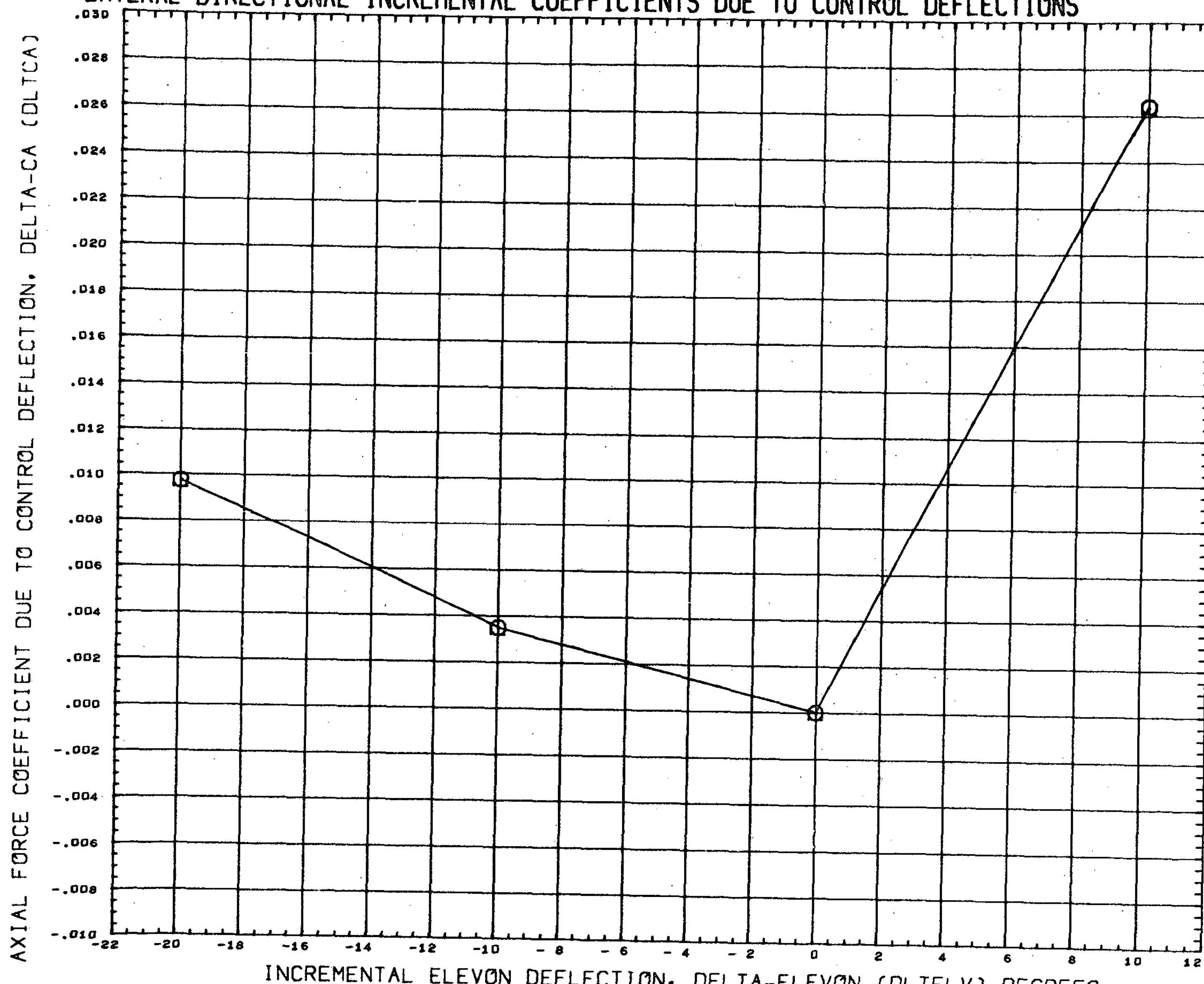
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA		PARAMETRIC VALUES		
O	15.000	MACH	0.900	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

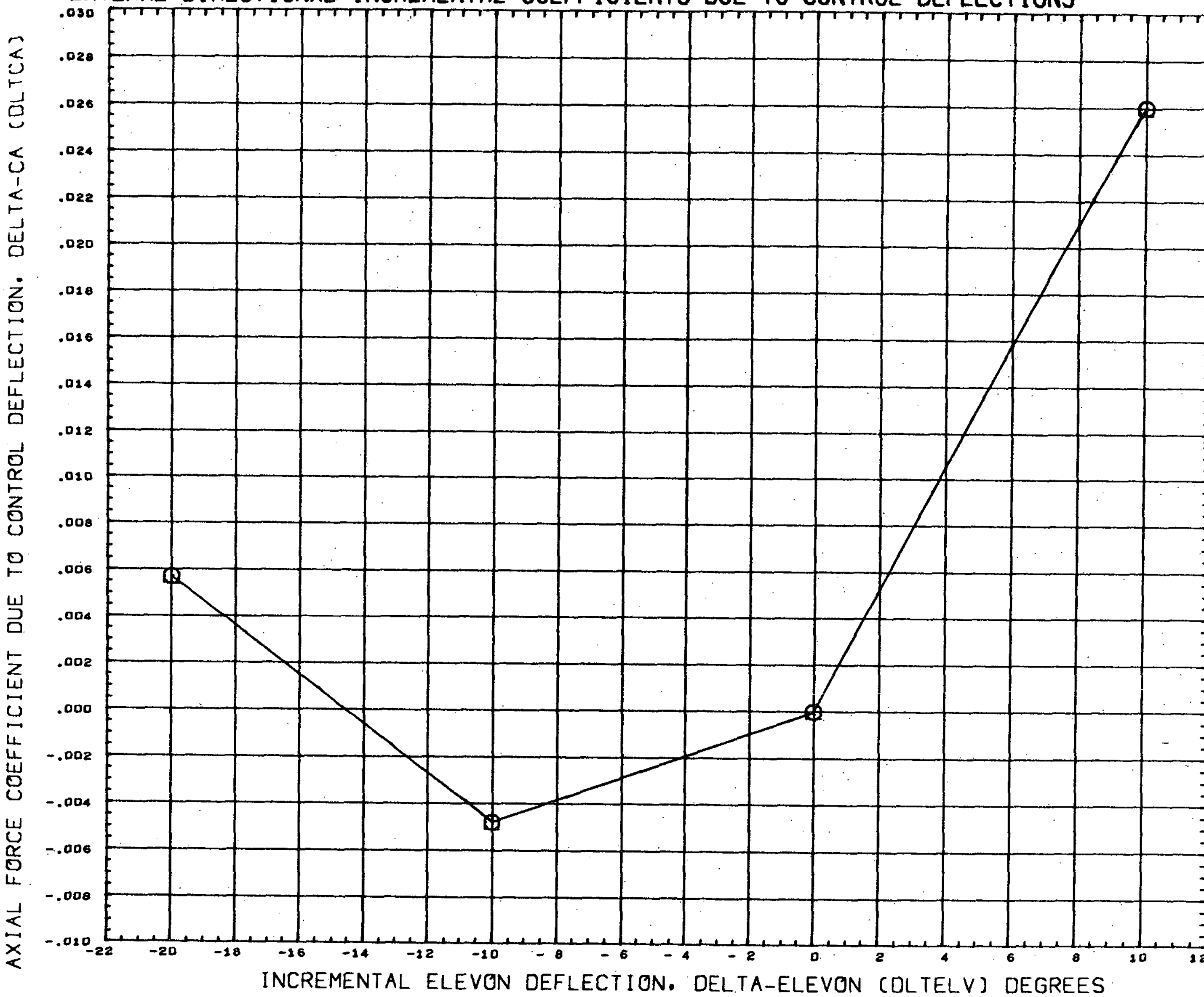
DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	20.000	MACH	0.900	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

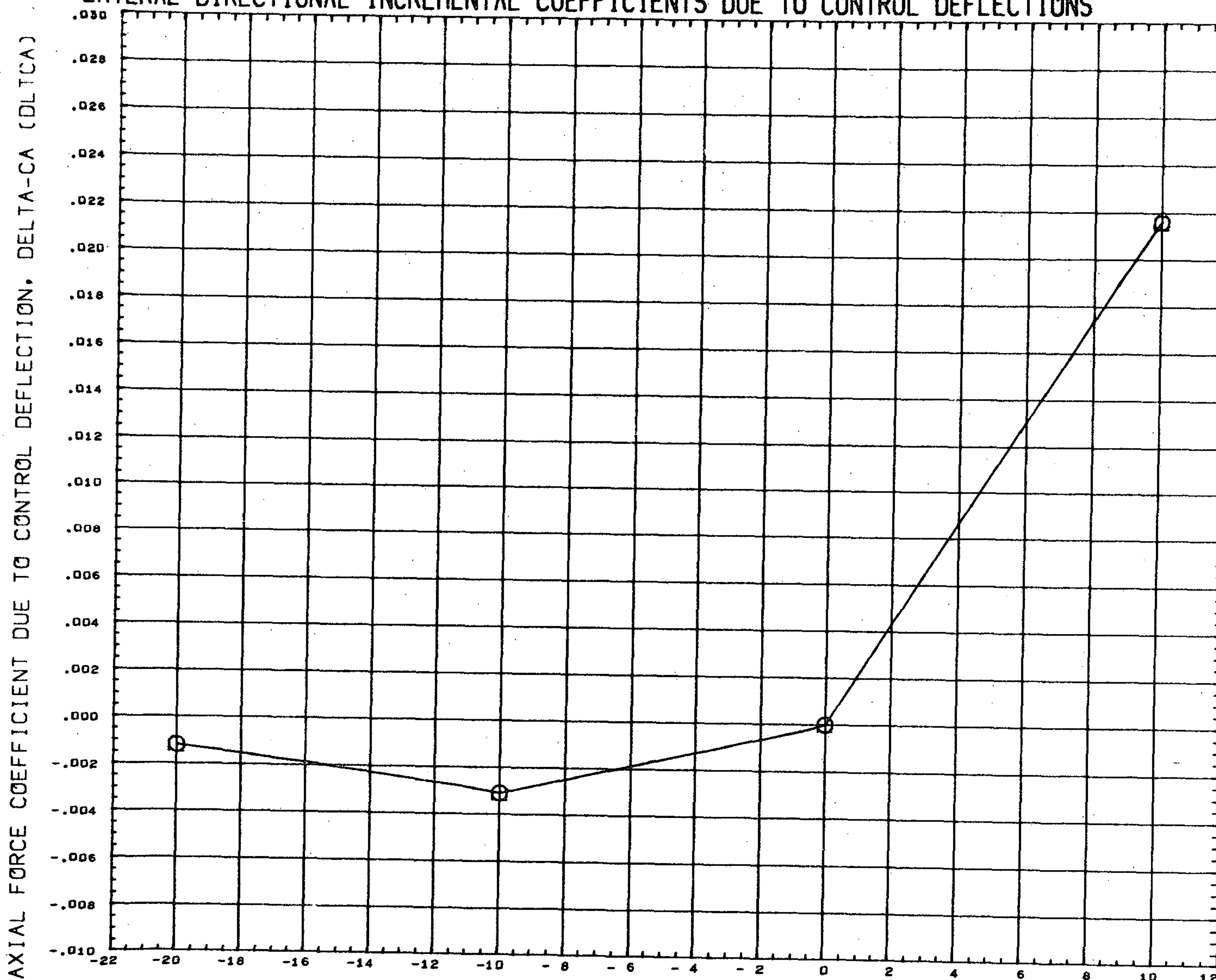
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	23.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS

SYMBOL	ALPHA
O	5.000

PARAMETRIC VALUES

MACH	1.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

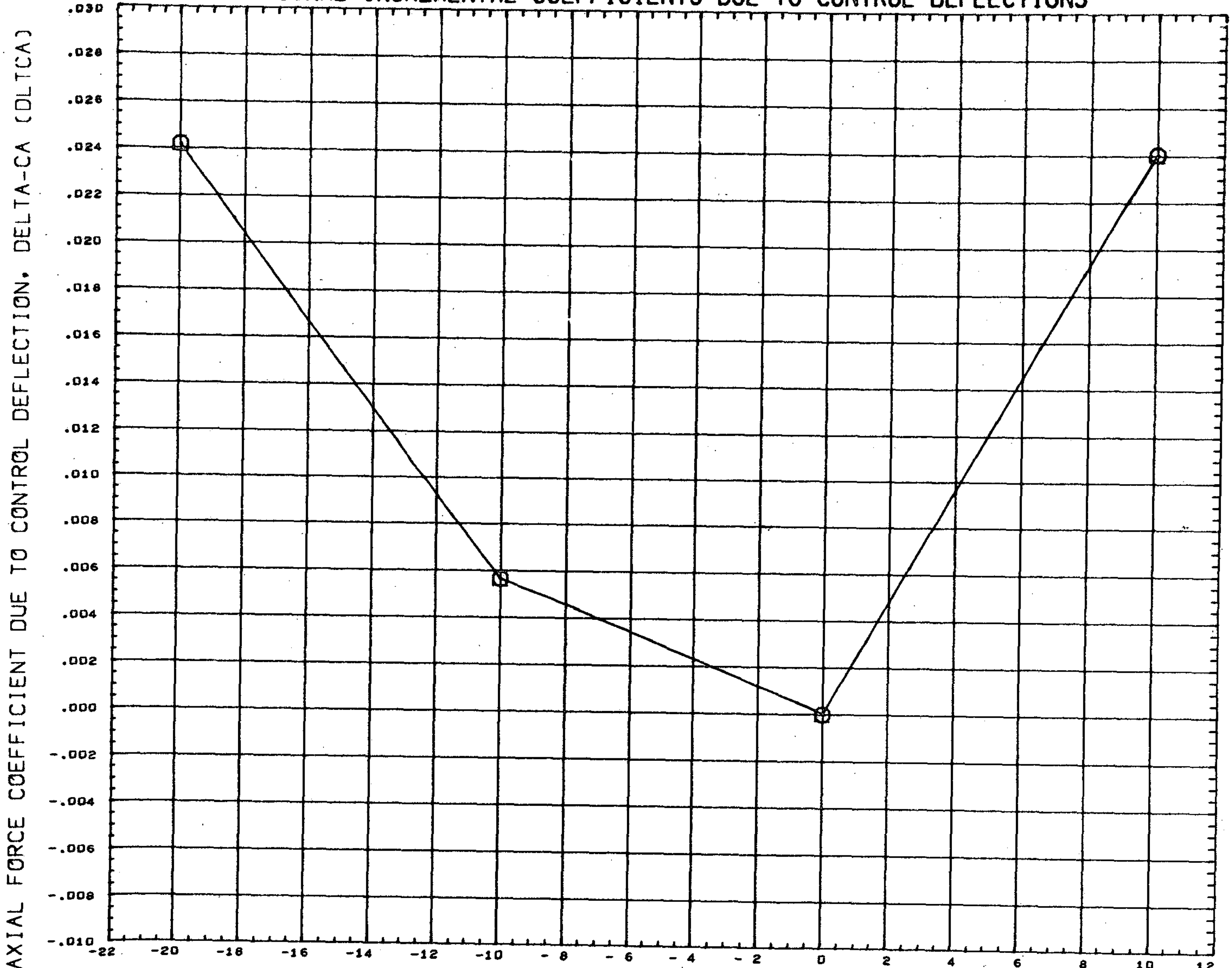
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA		PARAMETRIC VALUES		
O	10.000	MACH	1.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

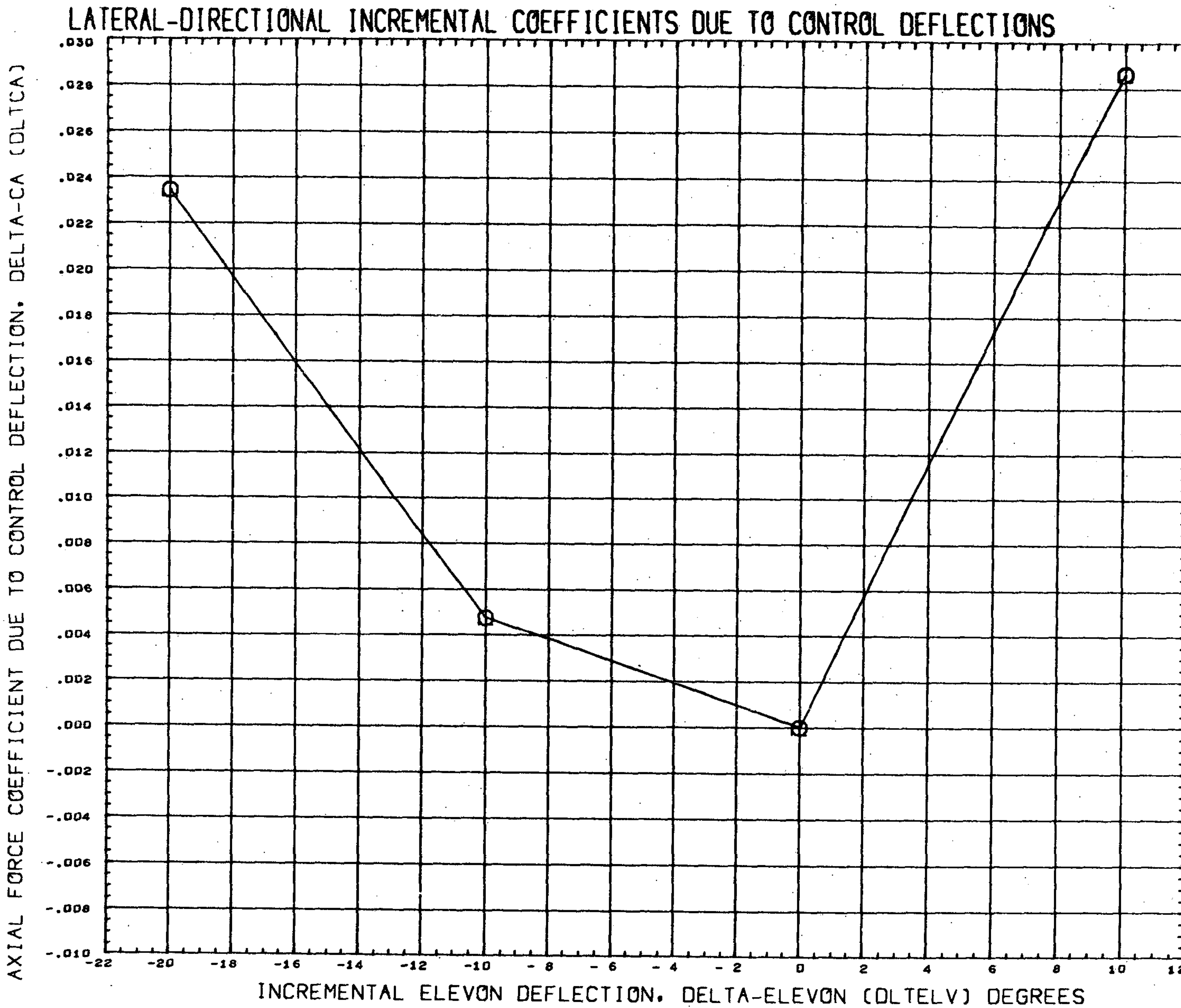
DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	15.000	MACH	1.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

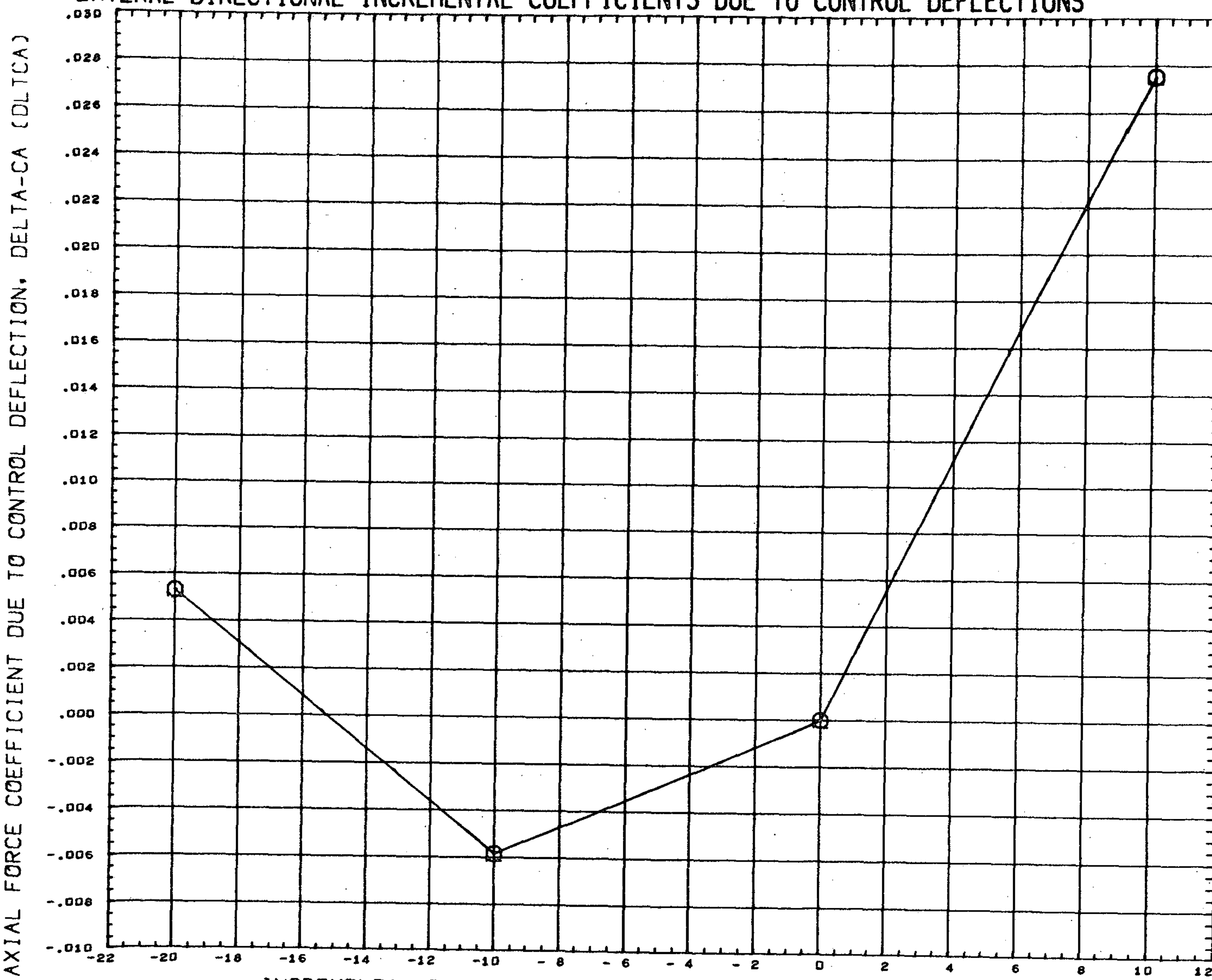
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	20.000	MACH	1.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

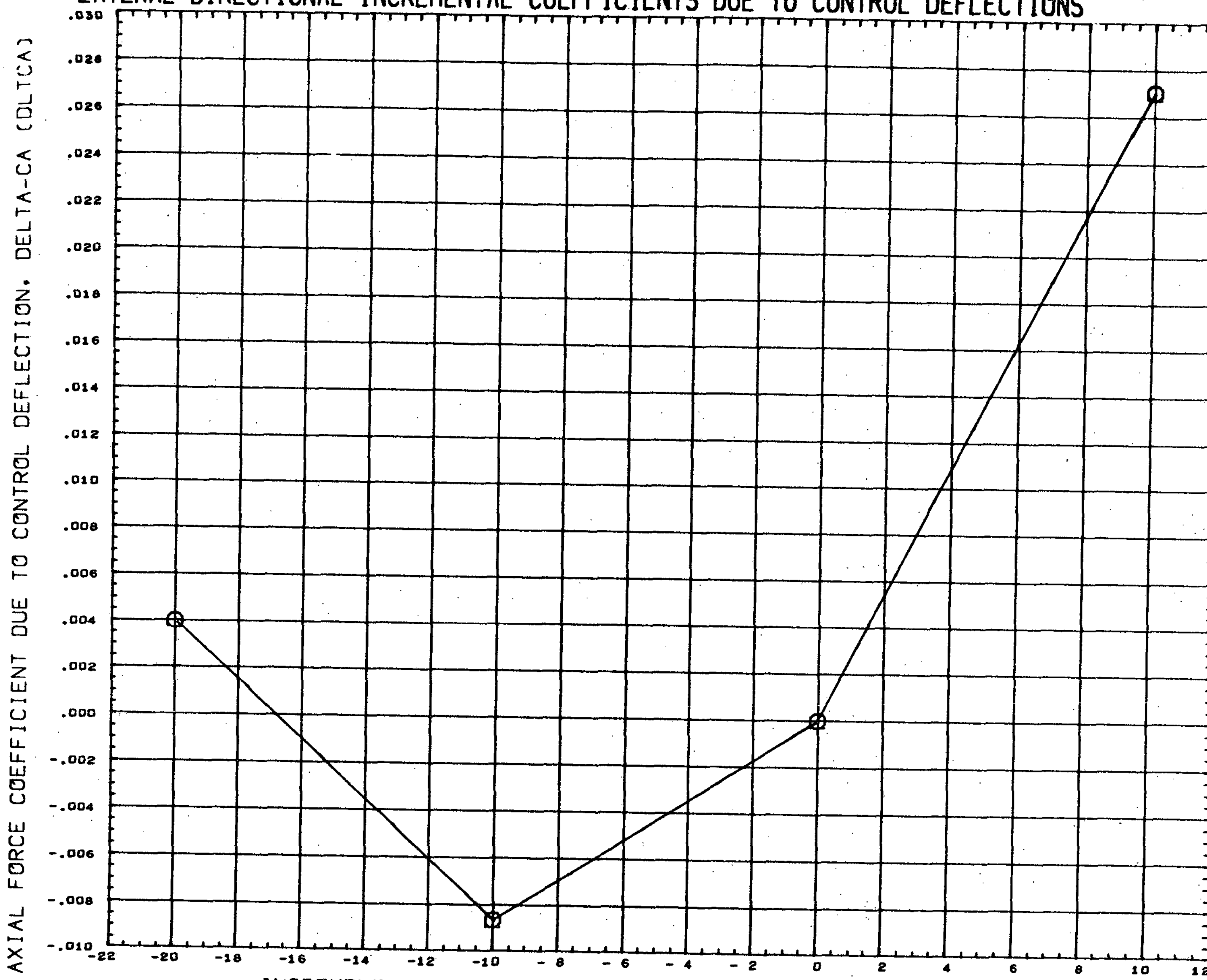
DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	23.000

PARAMETRIC VALUES

MACH	1.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

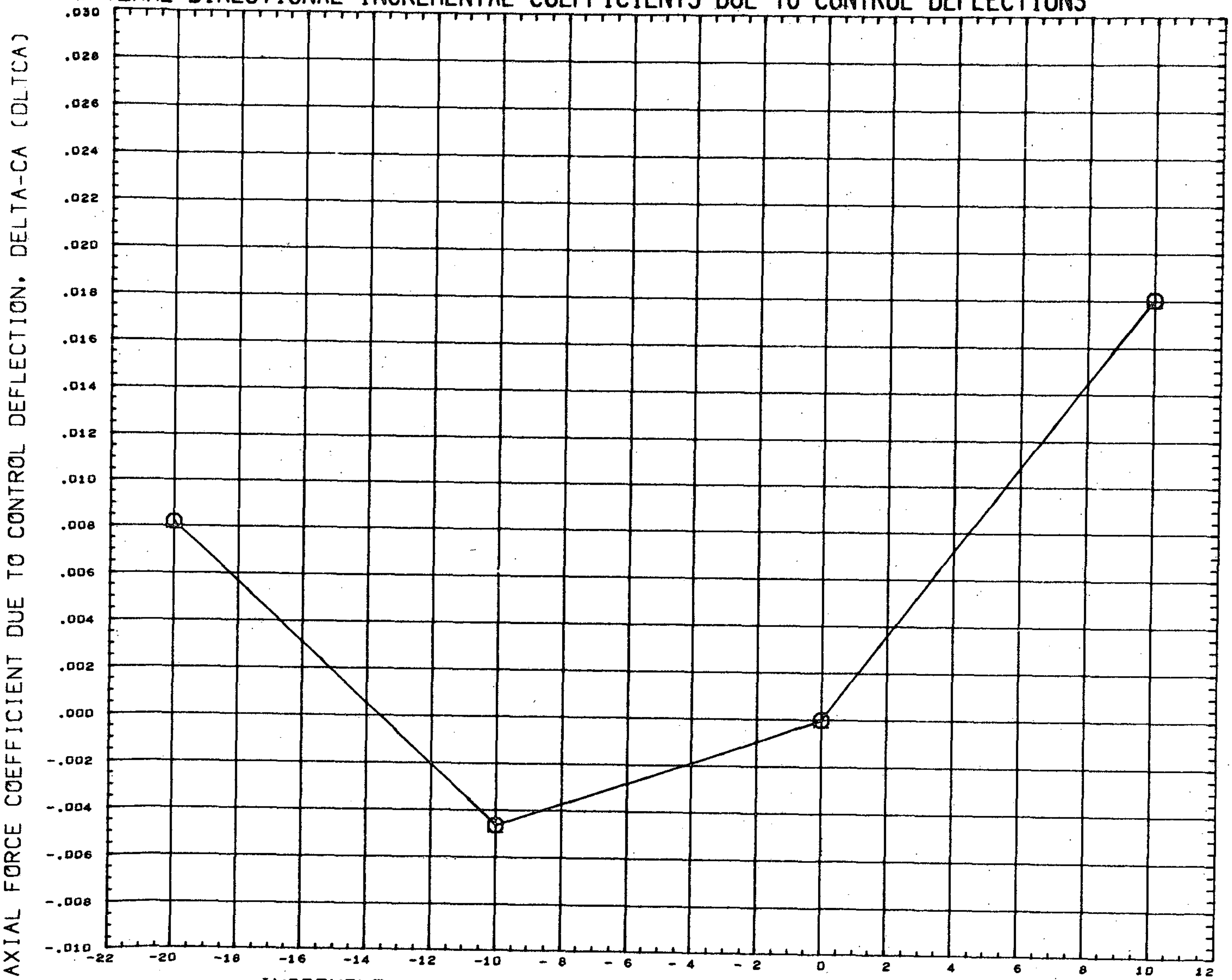
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	5.000	MACH	1.200	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

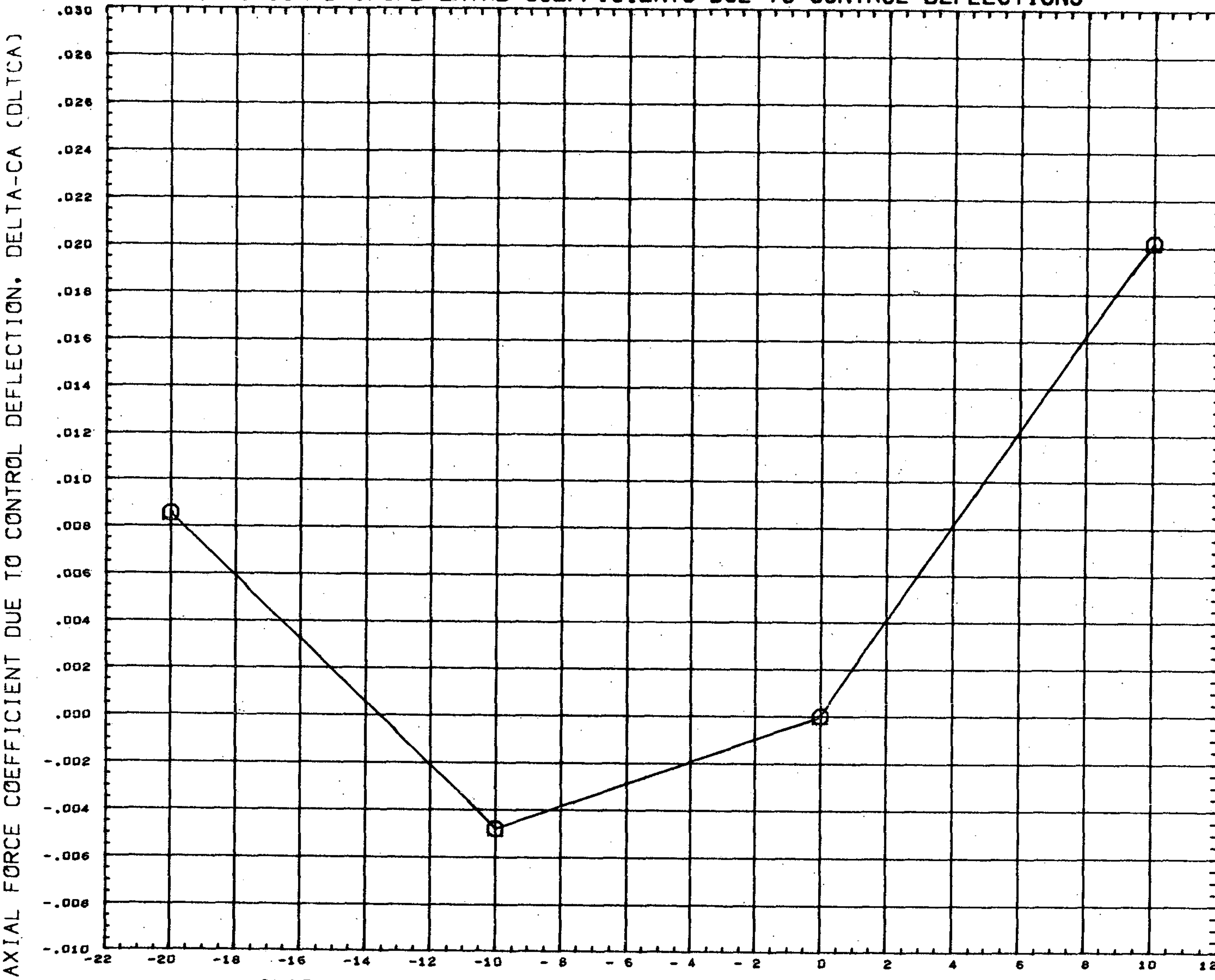
DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



INCREMENTAL ELEVON DEFLECTION, DELTA-ELEVON (DLTELV) DEGREES

SYMBOL	ALPHA
O	10.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

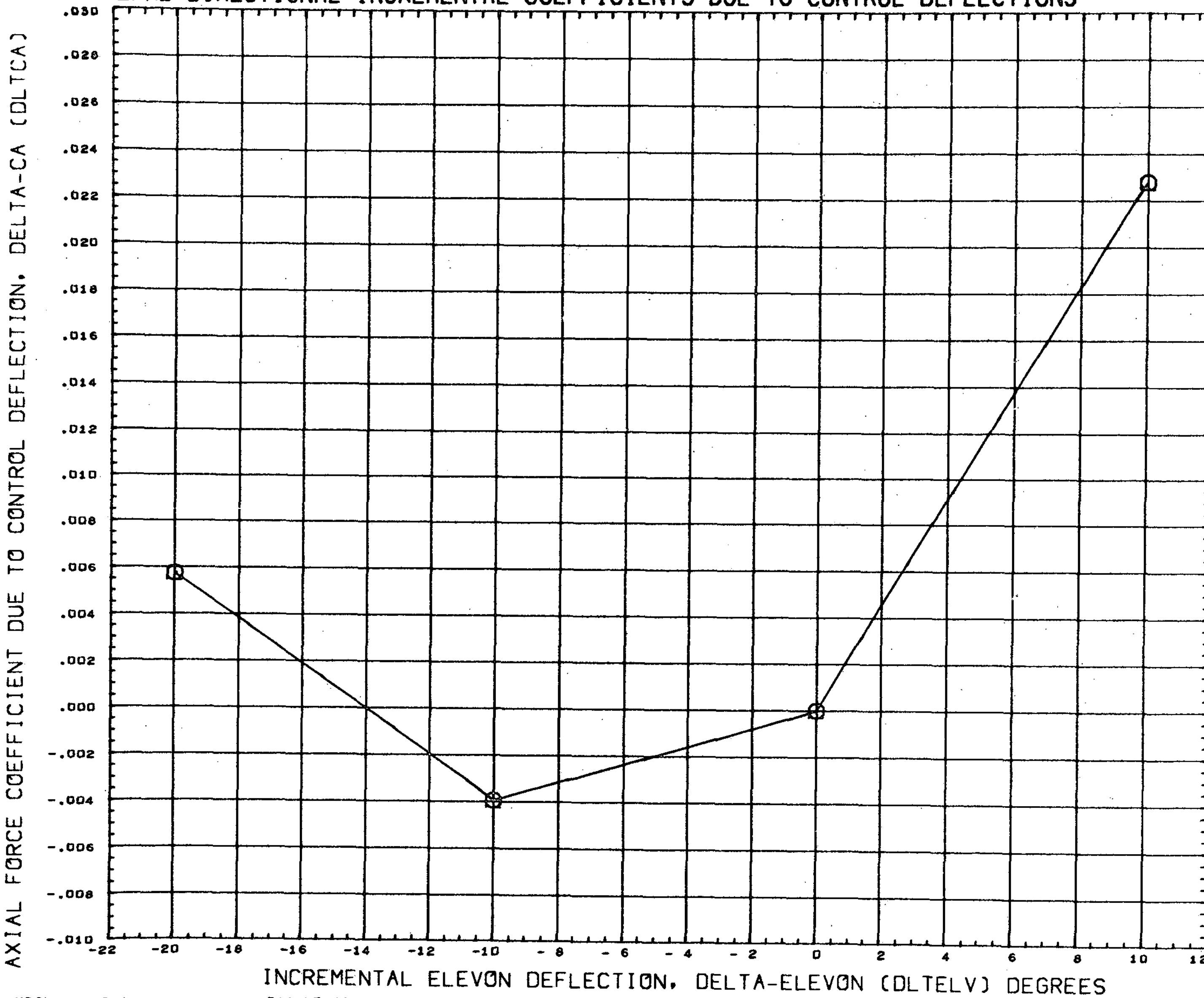
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EA0	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	15.000	MACH	1.200	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

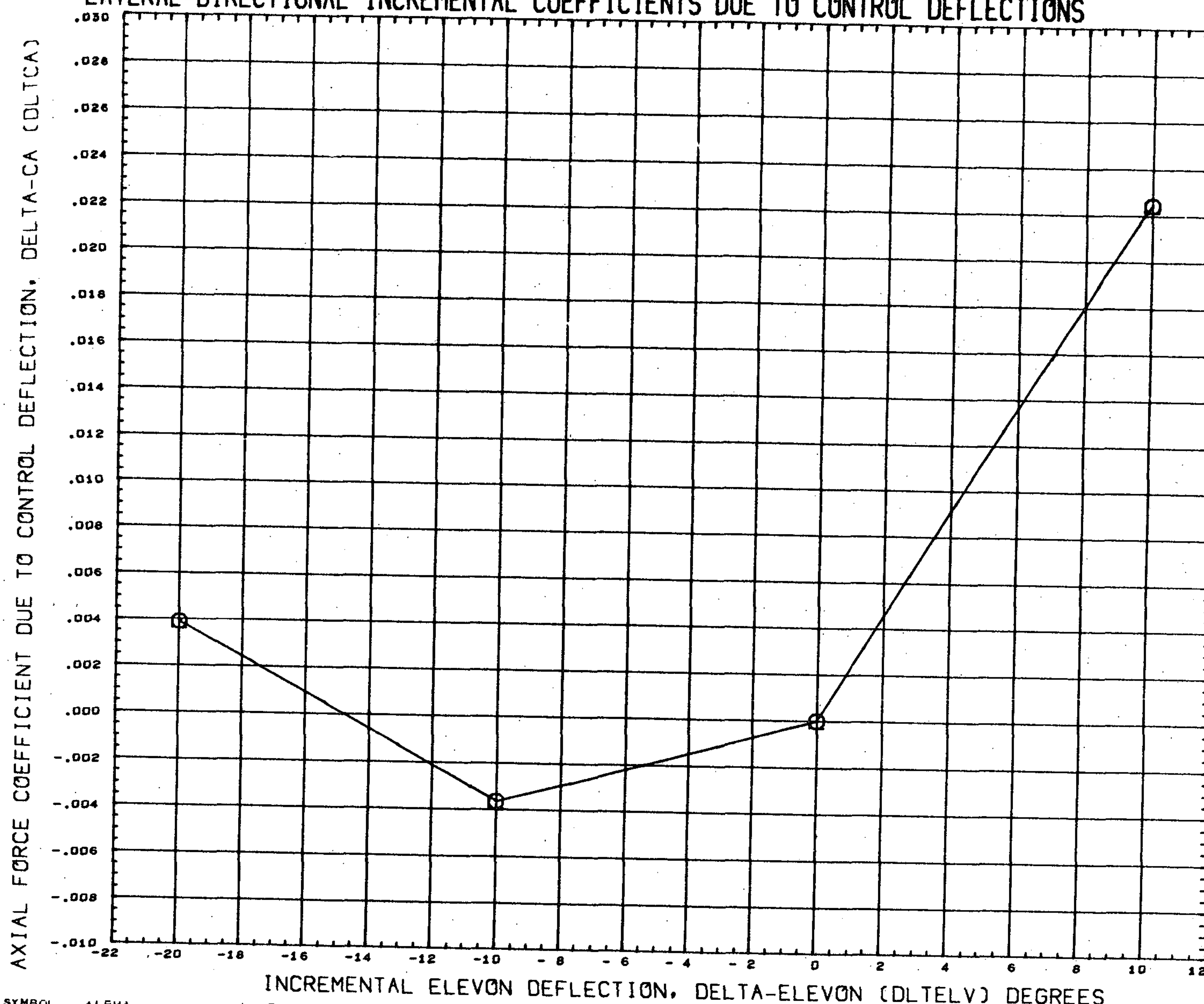
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	20.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

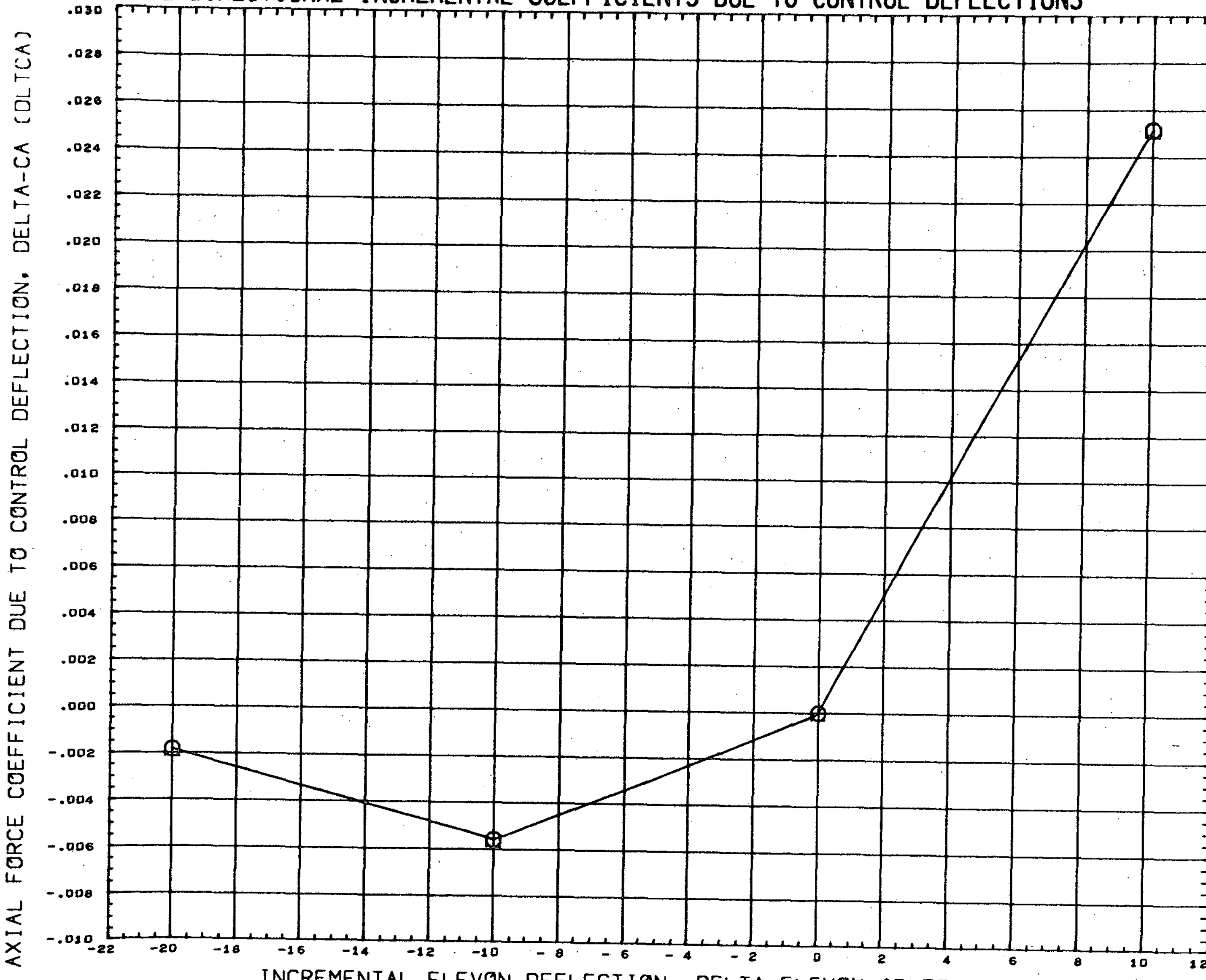
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	23.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

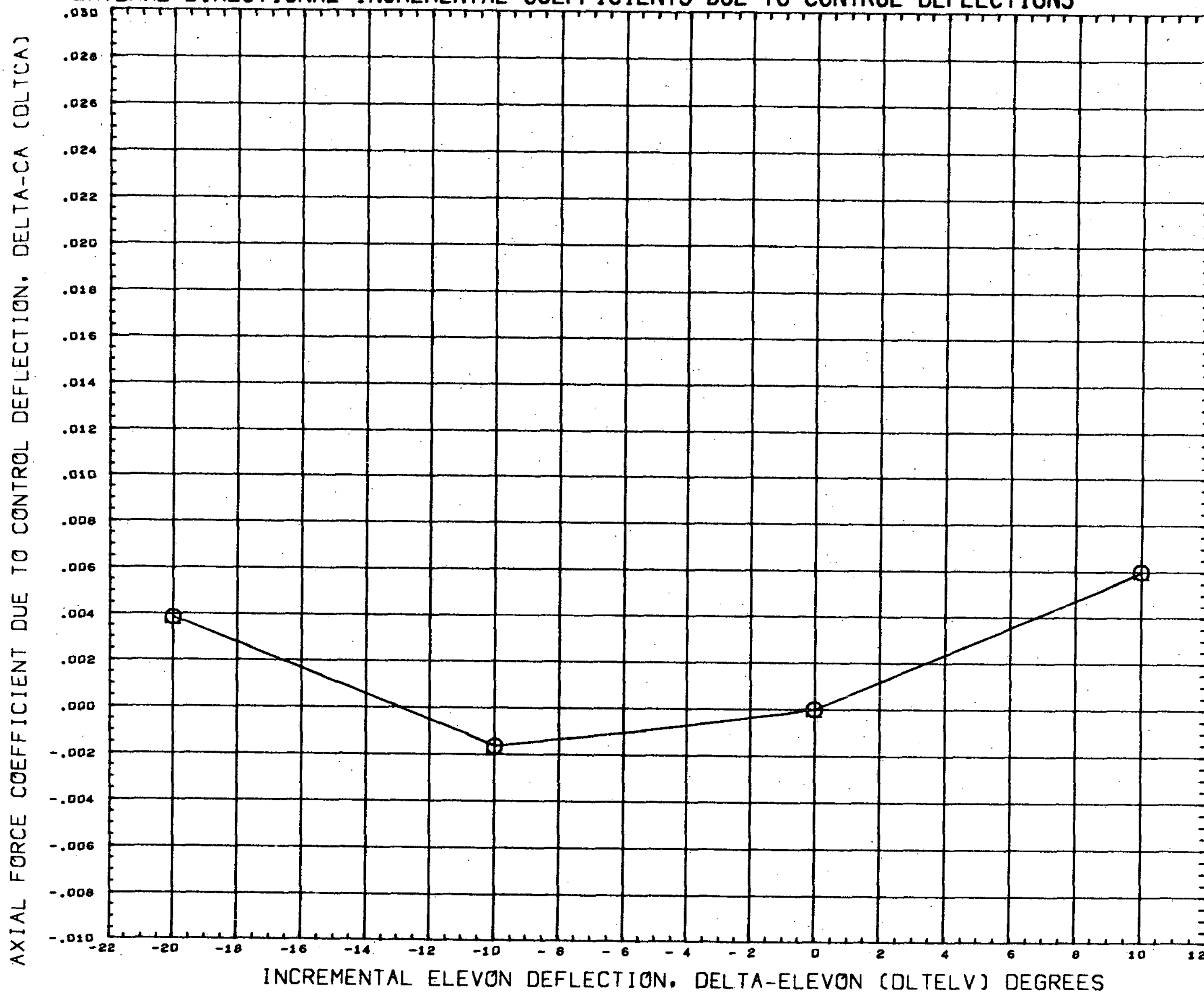
DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	5.000	MACH	2.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

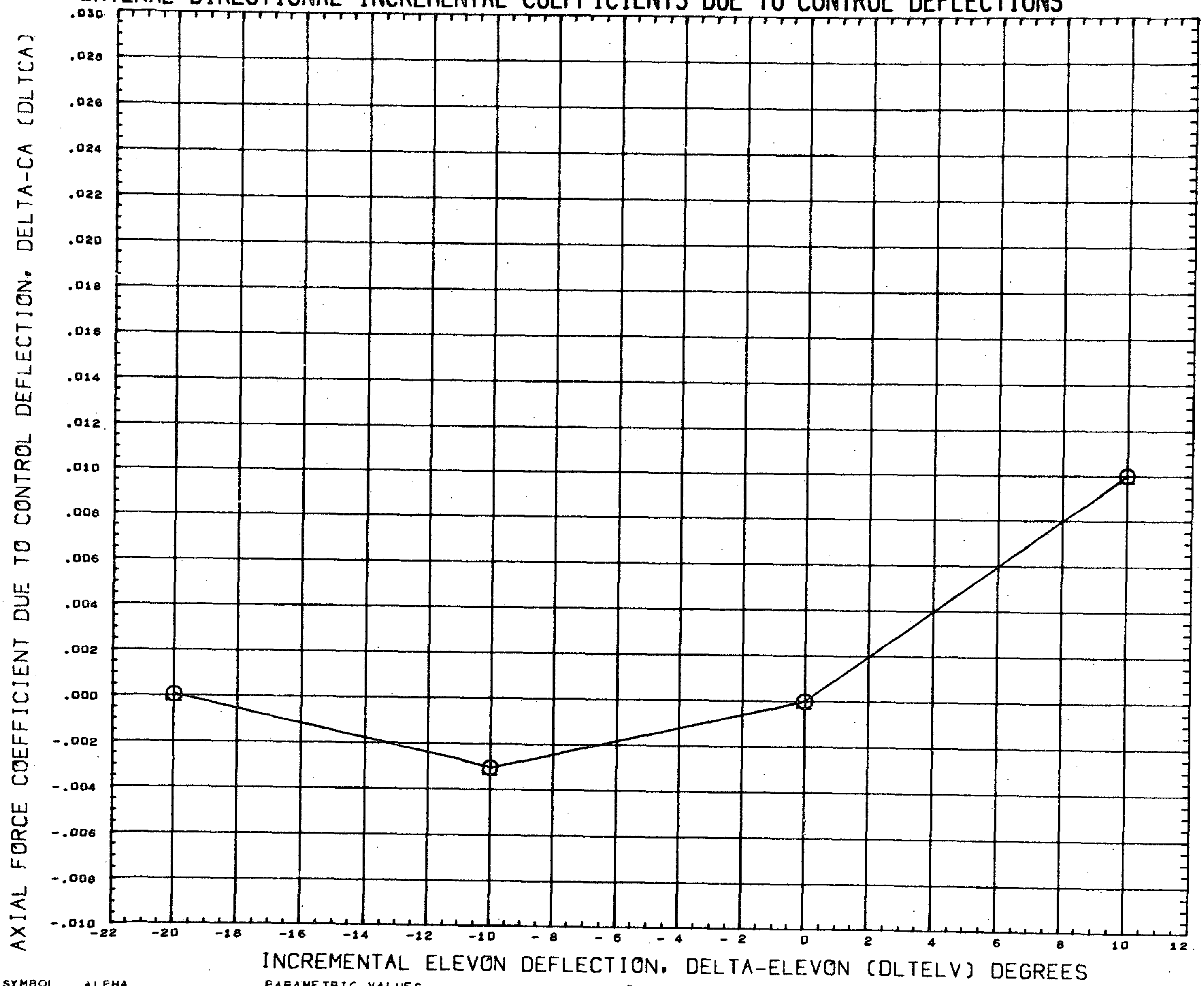
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	10.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

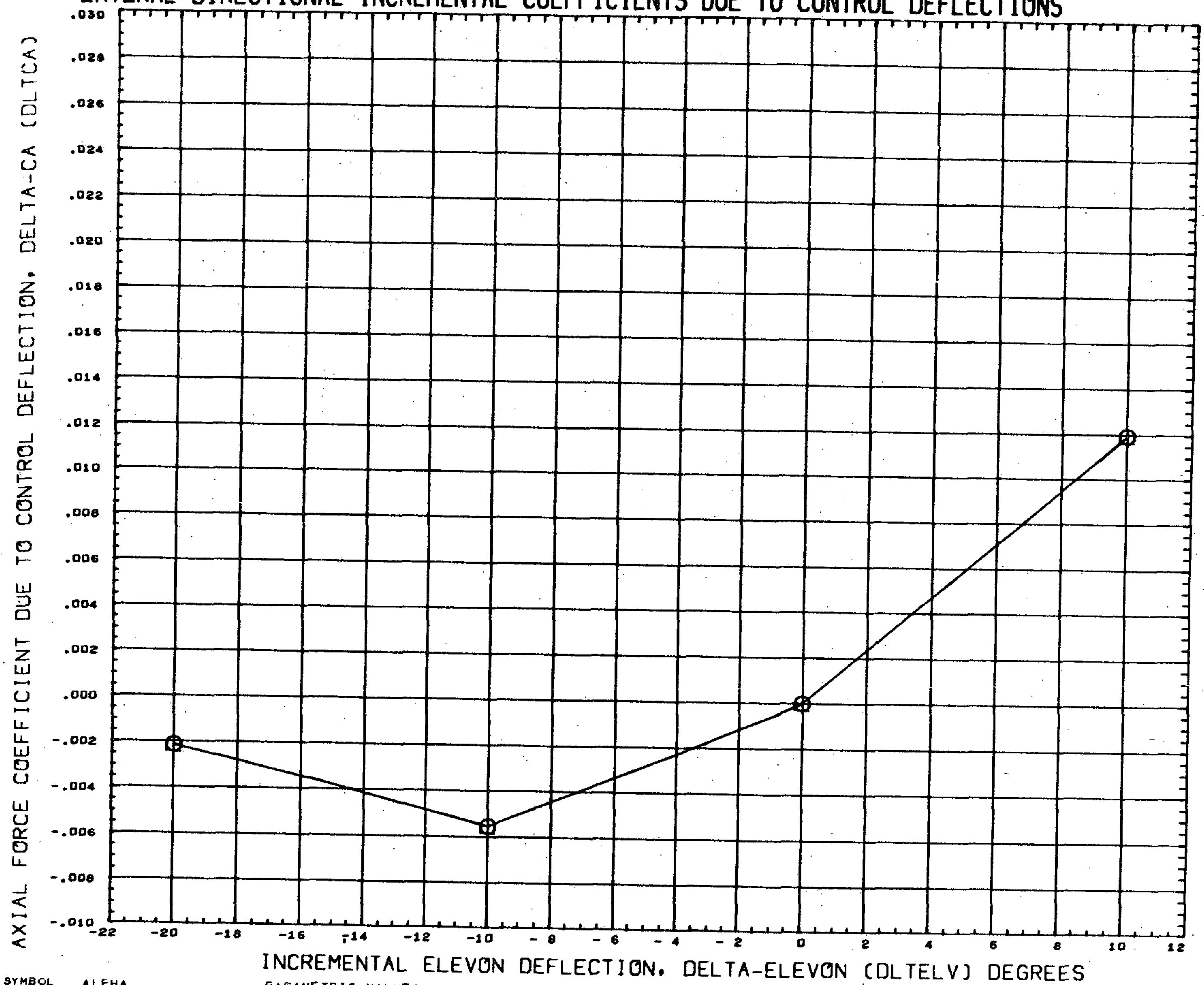
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	15.000	MACH	2.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

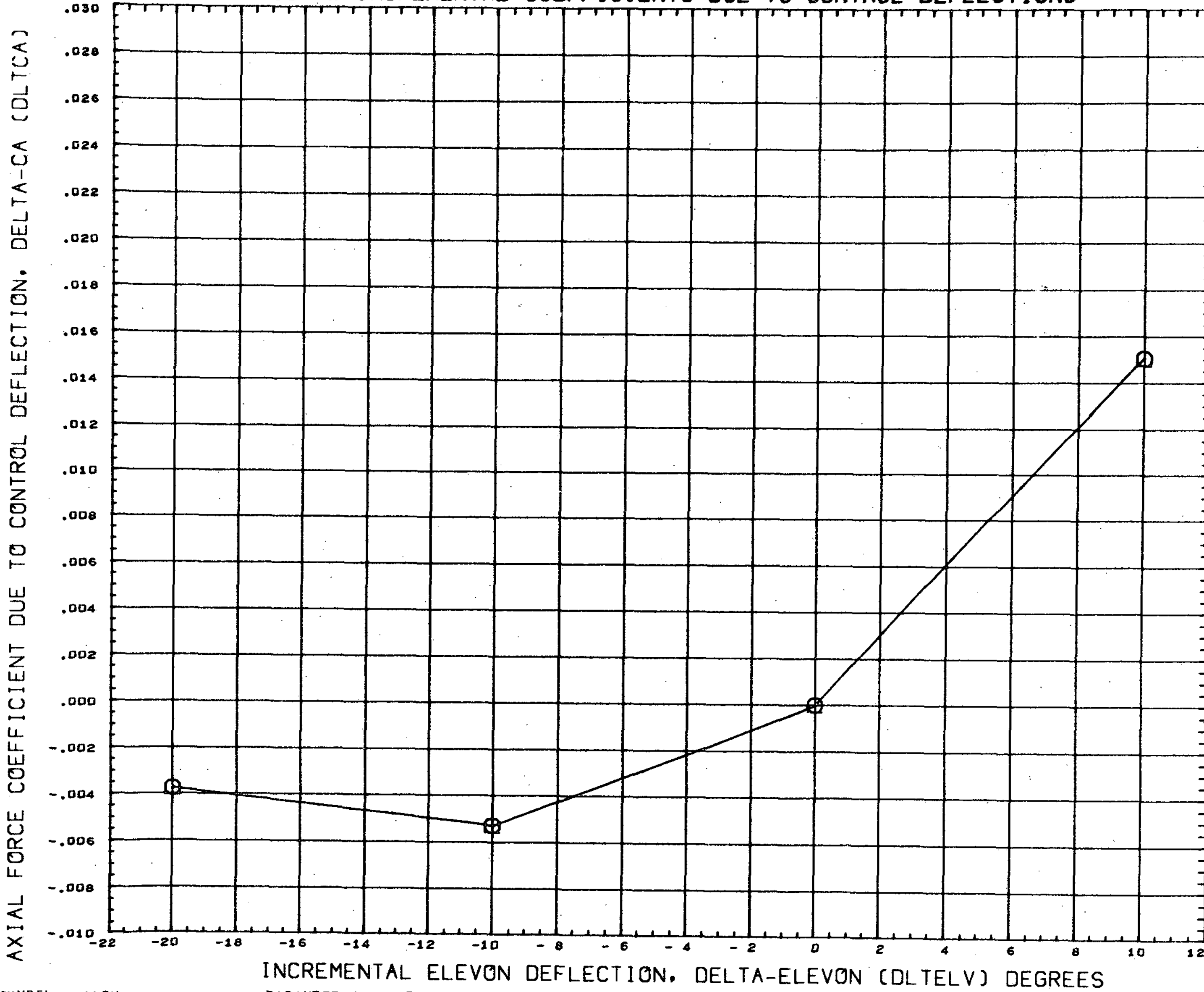
DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	20.000	MACH	2.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

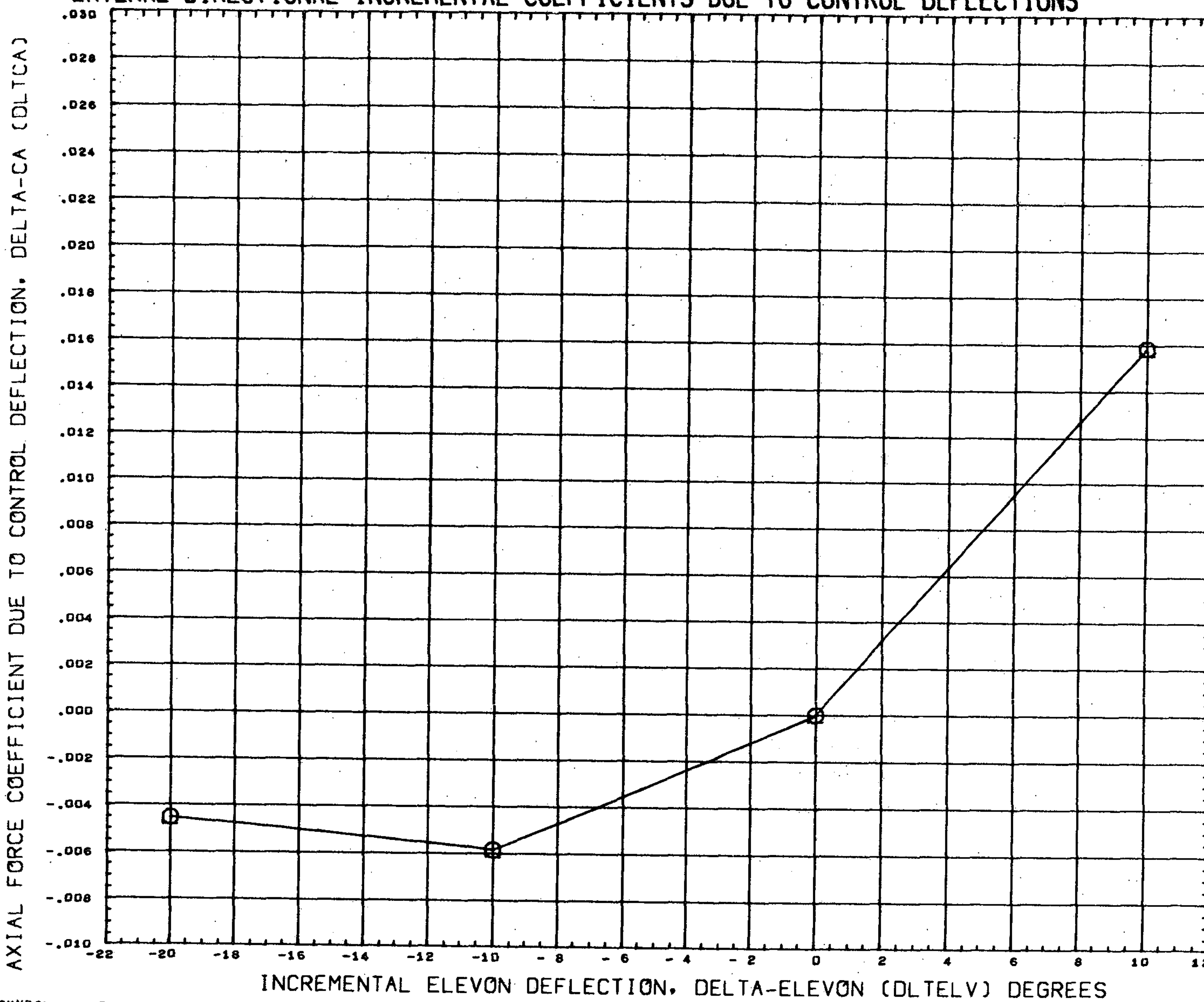
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EA0	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
◻	23.000	MACH	2.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

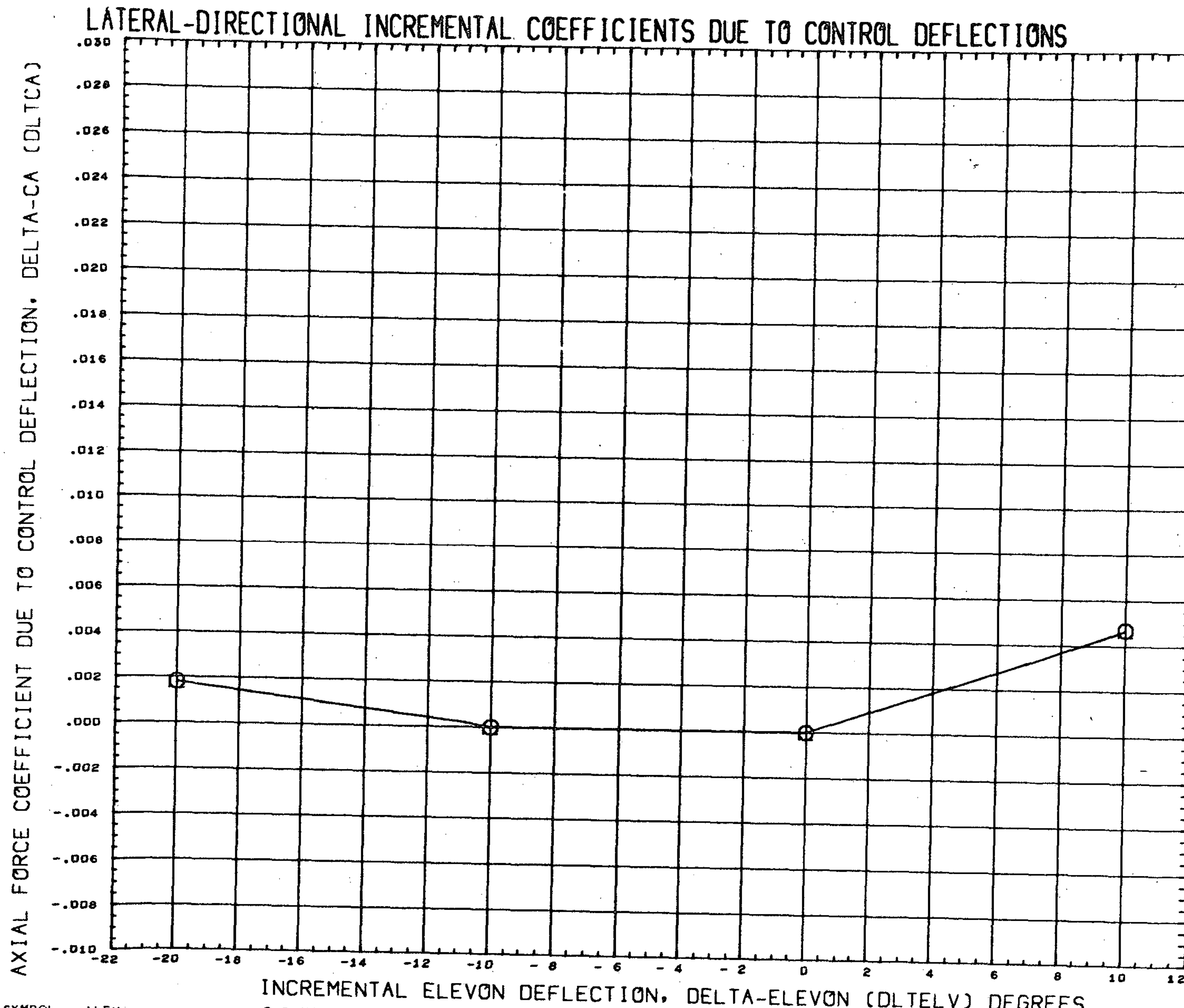
DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA
O	5.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

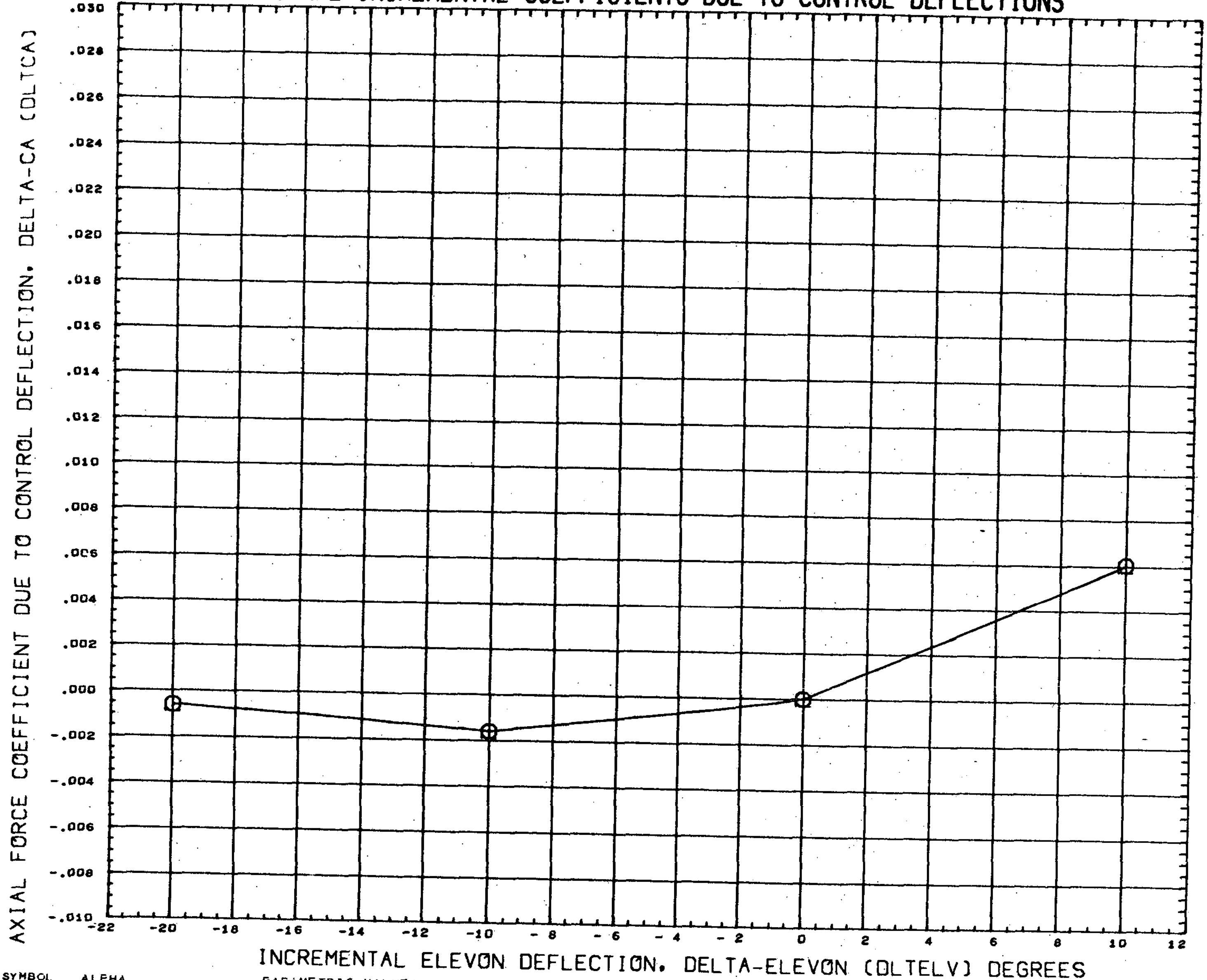
DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	10.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

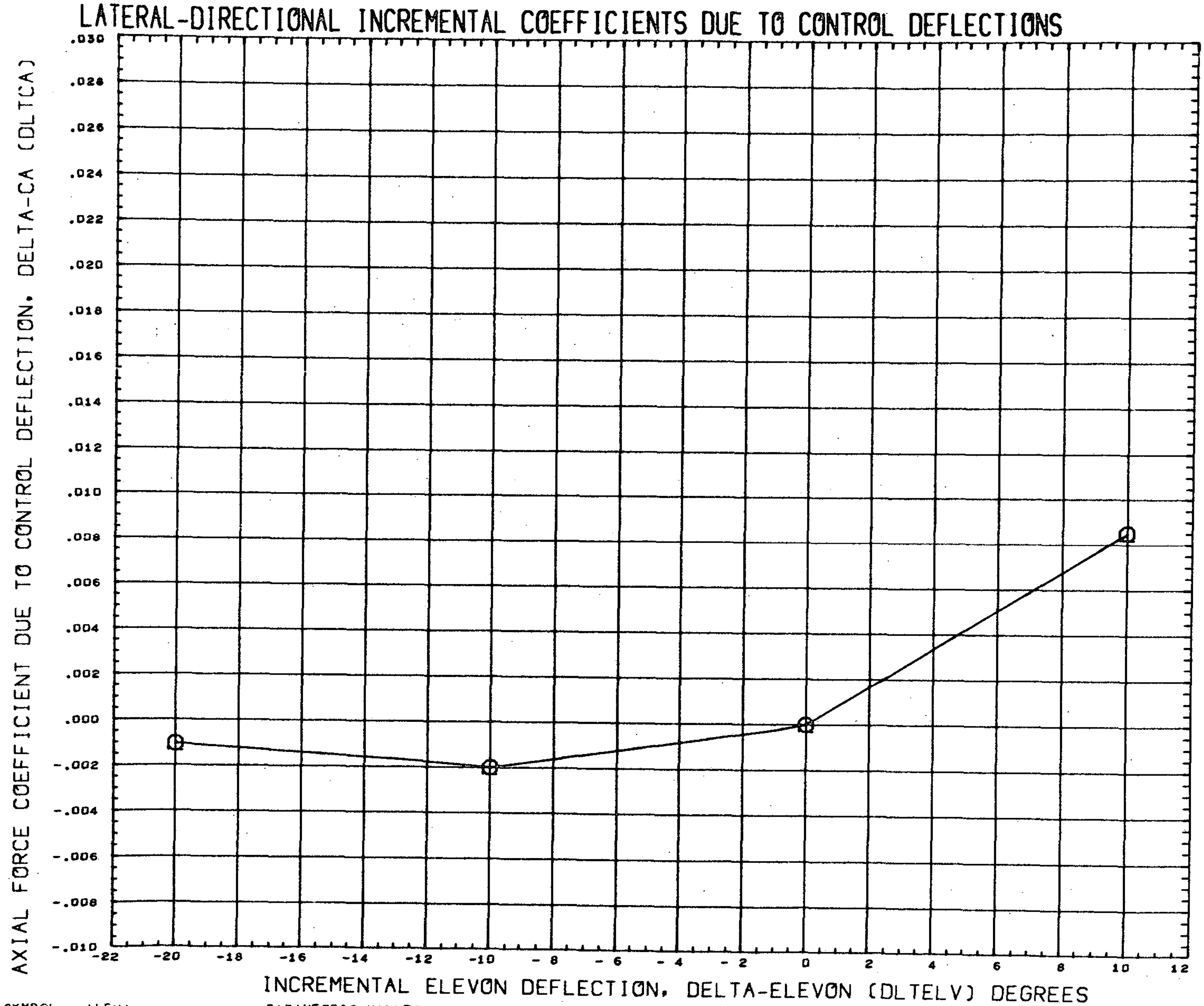
DATASET	DLTELV	DATASET	DLTELV
S35EAB	-20.000	S35EAC	-10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

M-493GD/C B25W19C8V10, ELEVON INCREMENTS(EAO-EAO) (S35EAB) 22 SEP 71



SYMBOL	ALPHA		PARAMETRIC VALUES		
○	15.000	MACH	3.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EA0	0.000	S35EAA	10.000

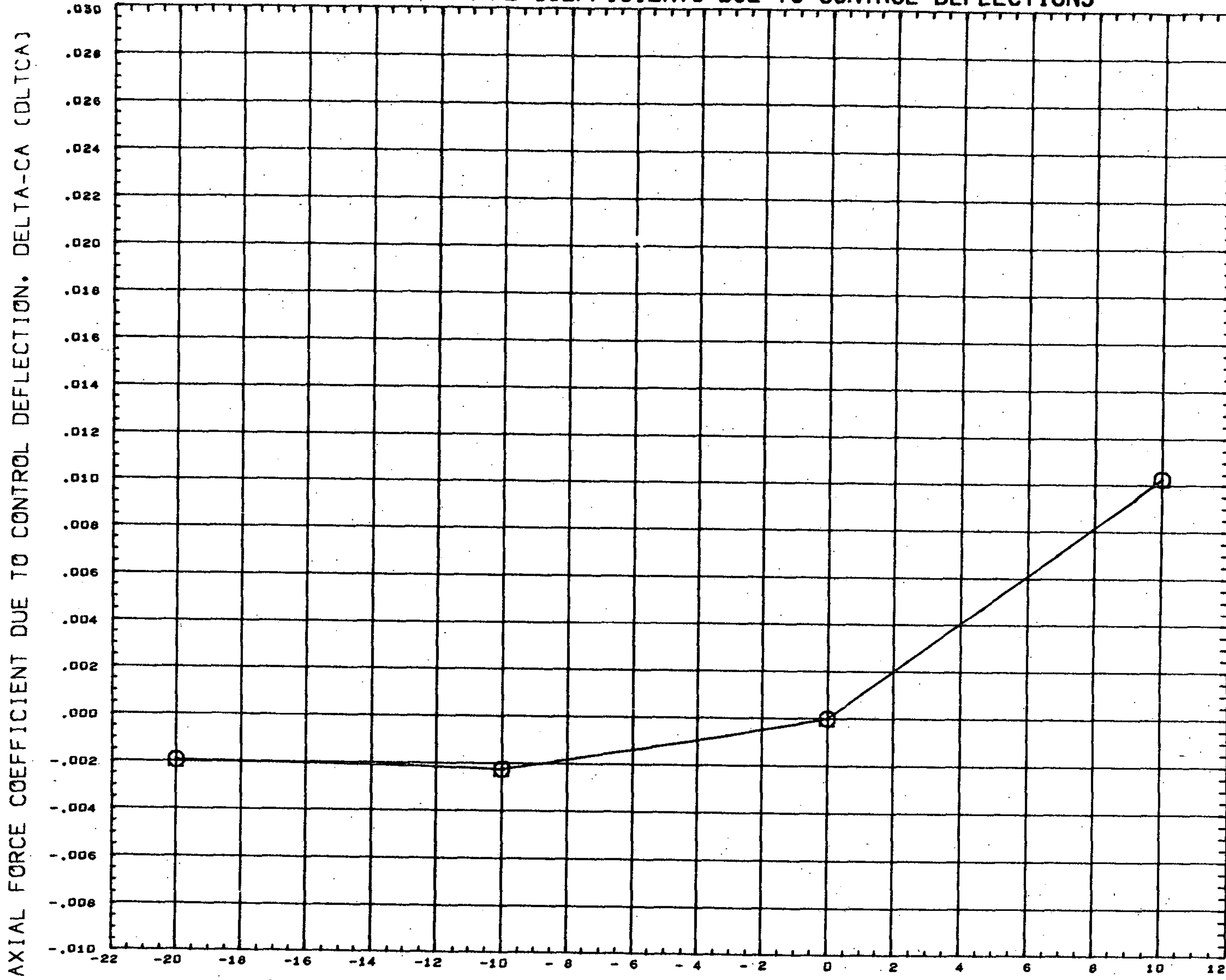
REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

M-493GD/C B25W19C8V10.ELEVON INCREMENTS(EA0-EA0) (S35EAB) 22 SEP 71 PAGE 401

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
◻	20.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
CANARD	0.000	RUDDER	0.000

DATA SOURCE

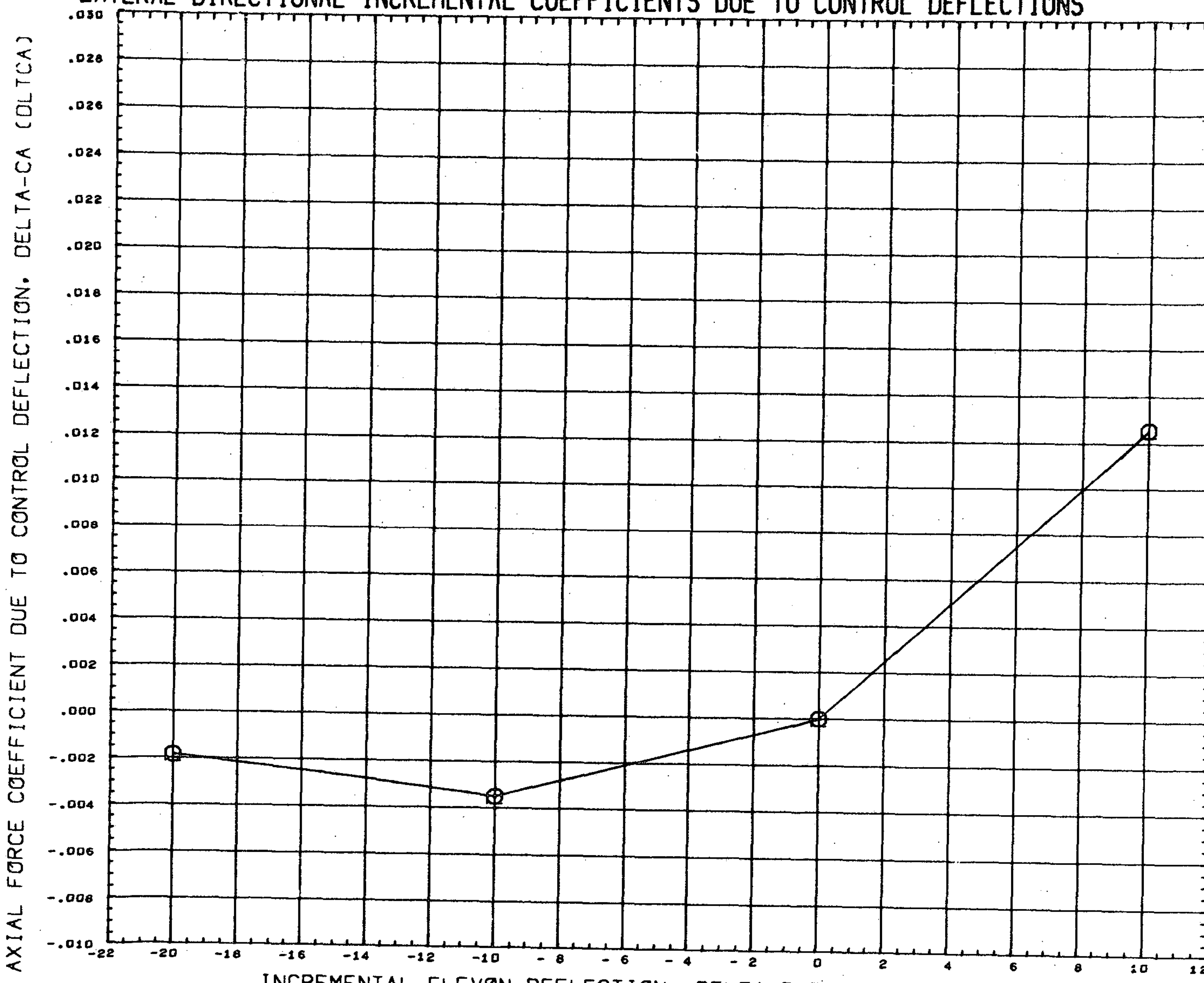
DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	23.000	MACH	3.000	BETA	0.000
		CANARD	0.000	RUDDER	0.000

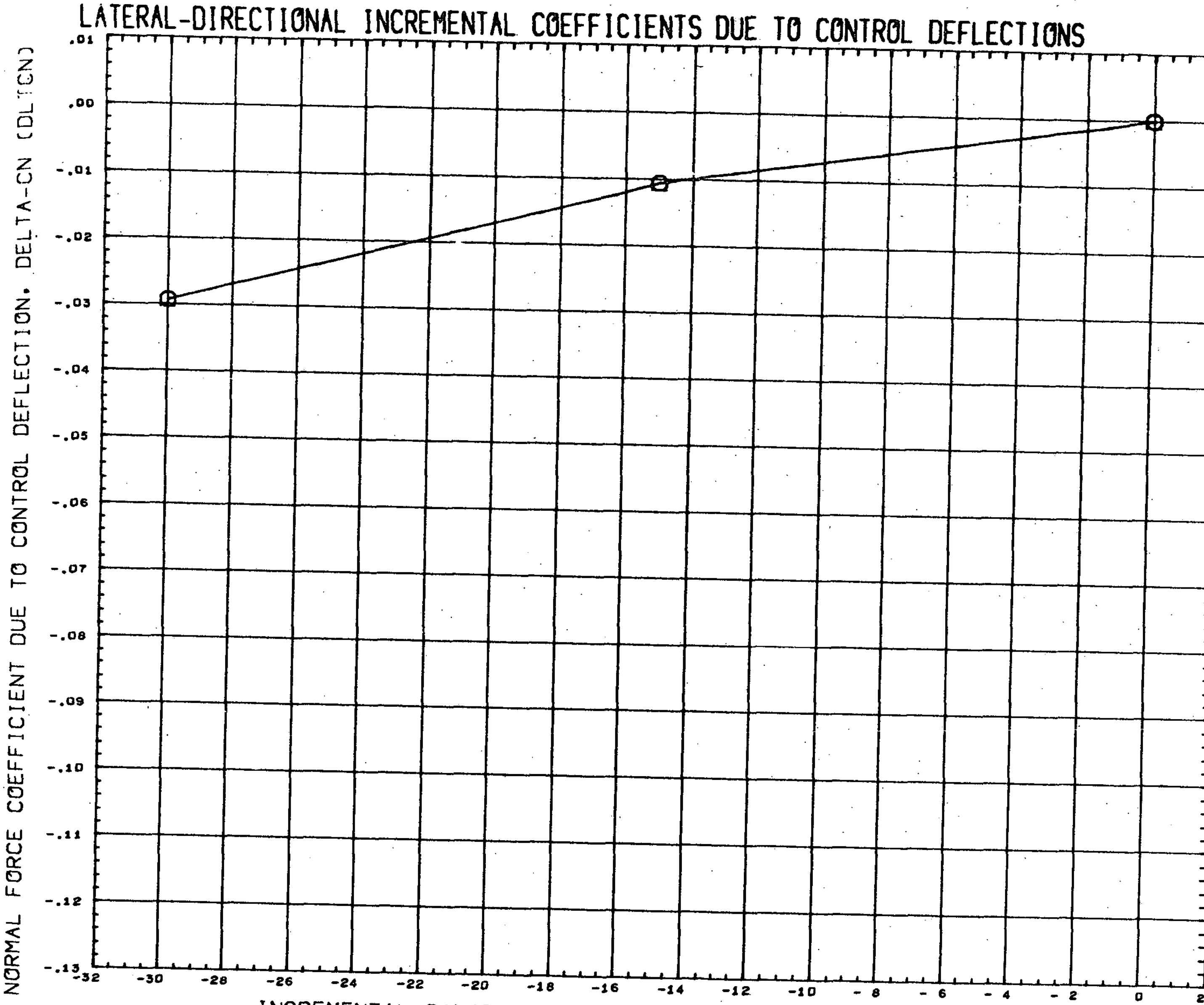
DATA SOURCE

DATASET	DLTELV	DATASET	DLTELV
S35EAB	- 20.000	S35EAC	- 10.000
S35EAO	0.000	S35EAA	10.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA
O	5.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
ELEVON	0.000	RUDDER	0.000

DATA SOURCE

DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

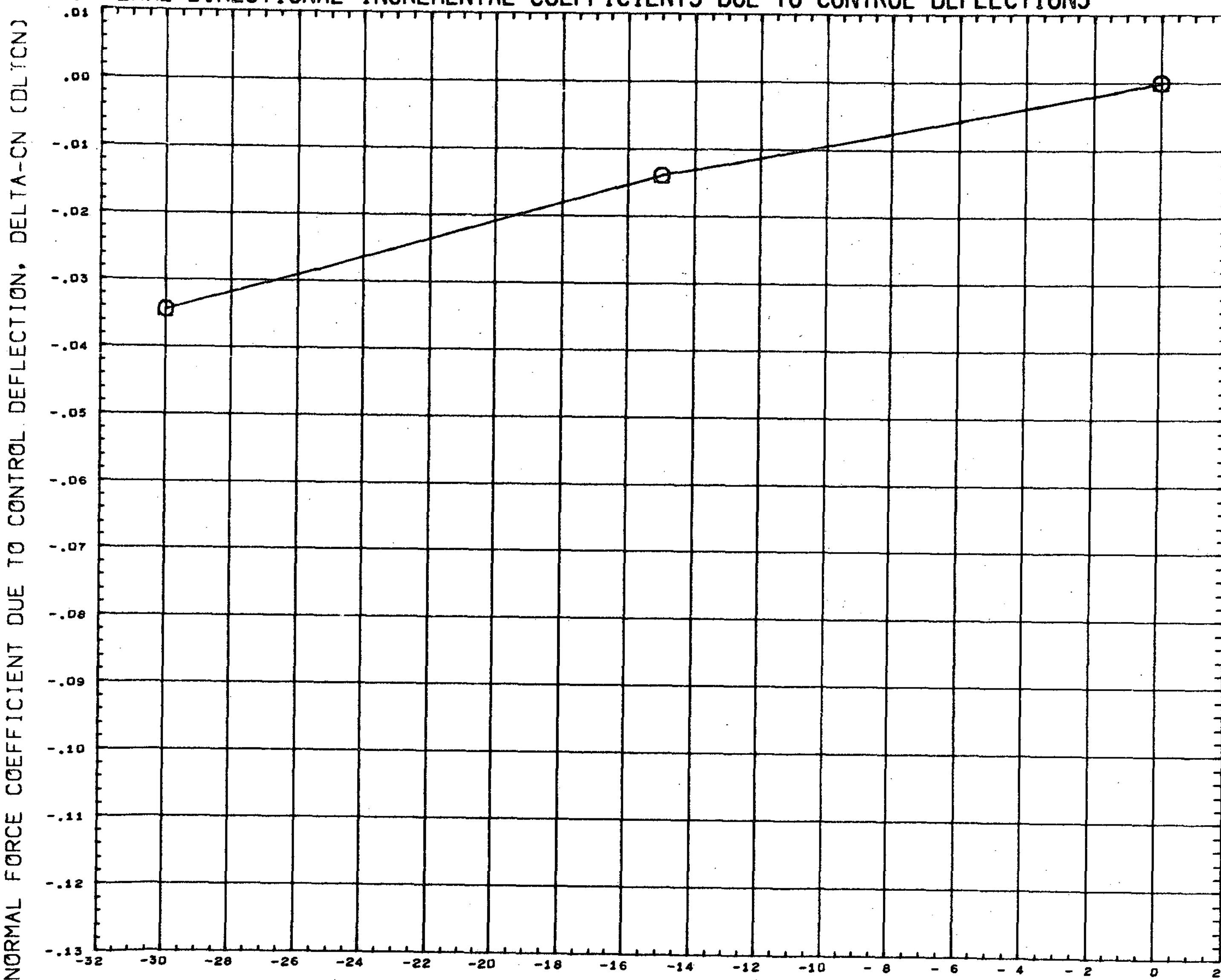
REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

M-493GD/C B25W19C8V10,ELEVON INCREMENTS(EAA-EAO) (T35CAB) 22 SEP 71 PAGE 404

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	10.000	MACH	0.900	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

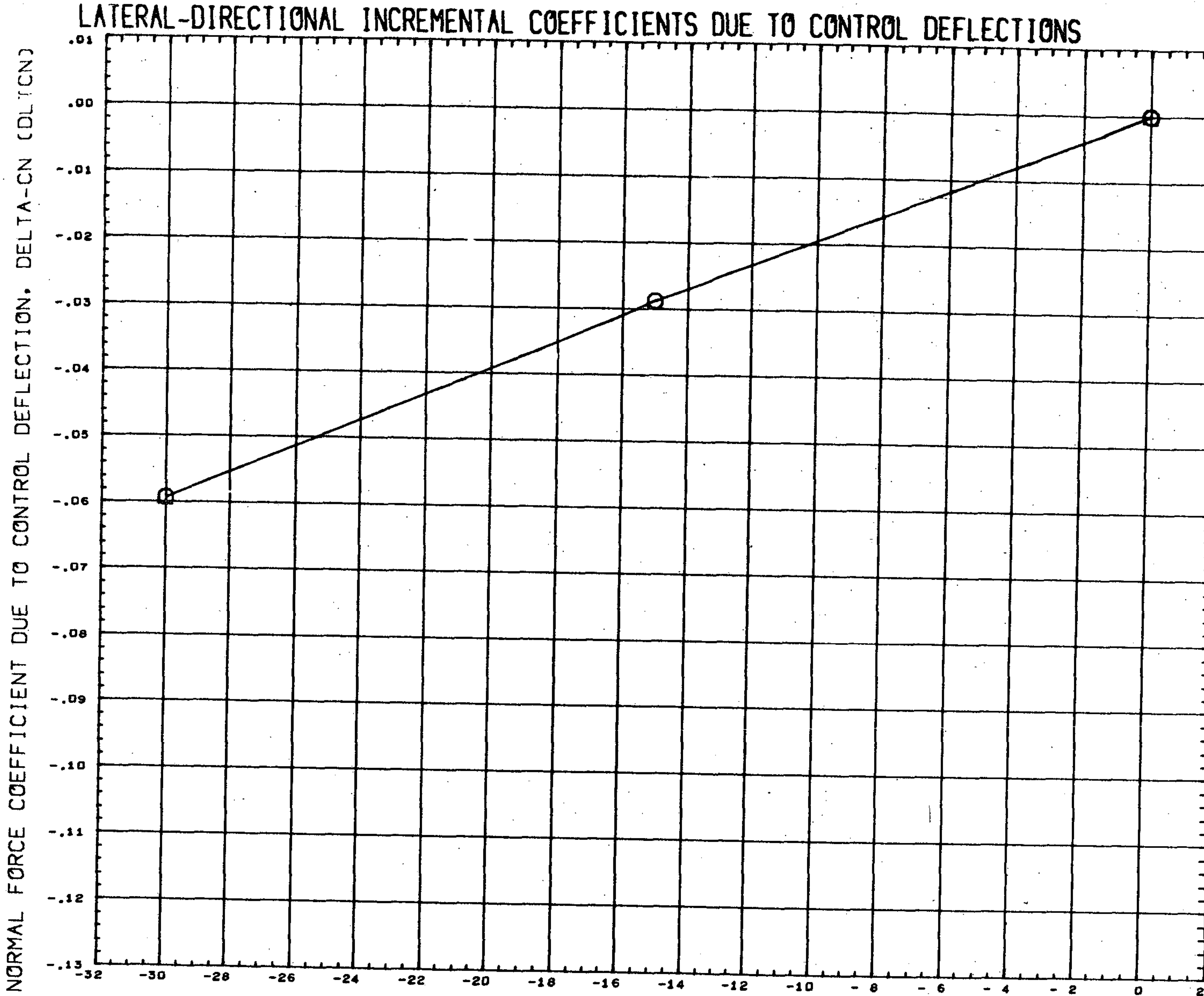
DATA SOURCE

DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA
O	15.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
ELEVON	0.000	RUDDER	0.000

DATA SOURCE

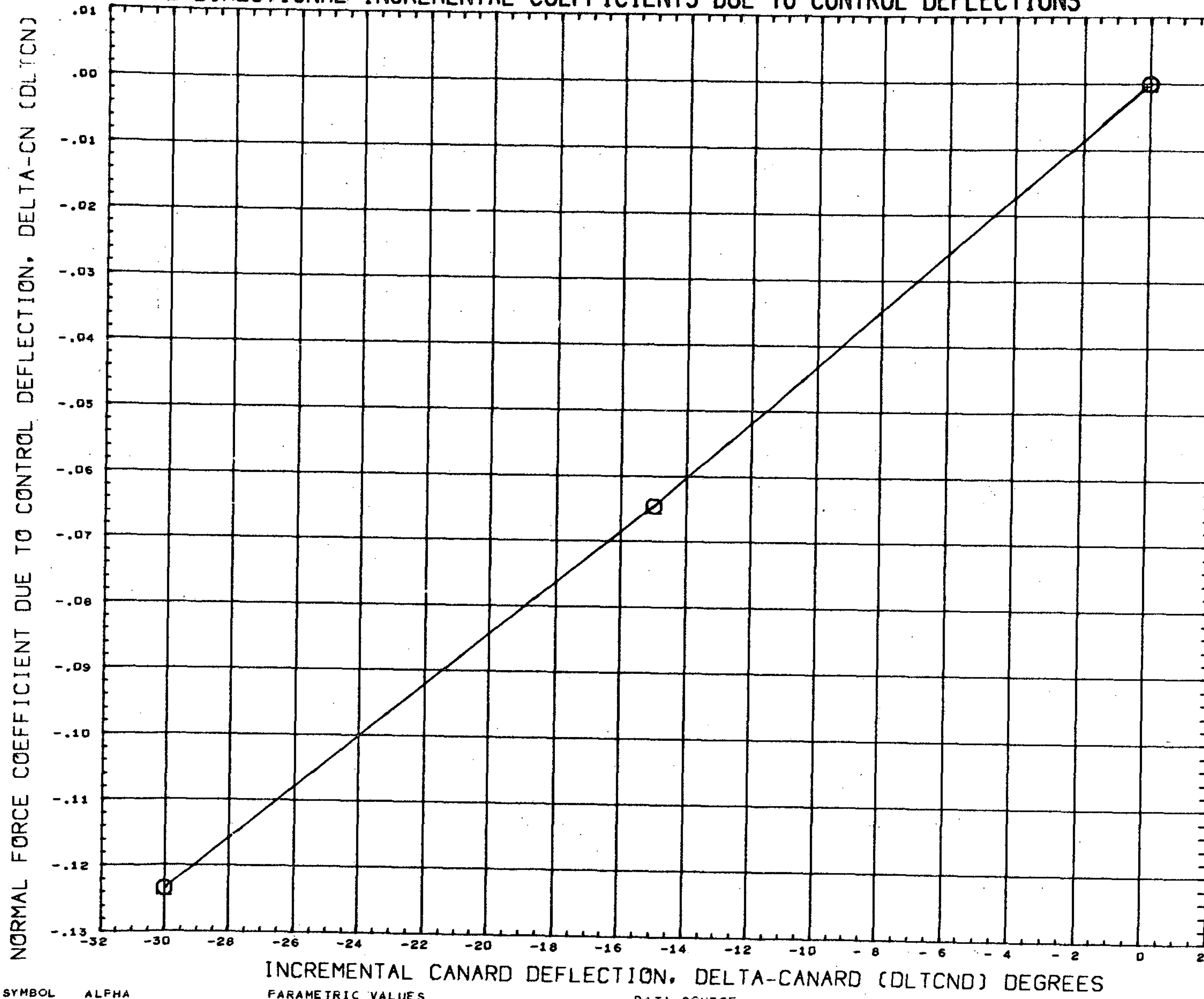
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL ○ ALPHA 20.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
ELEVON	0.000	RUDDER	0.000

DATA SOURCE

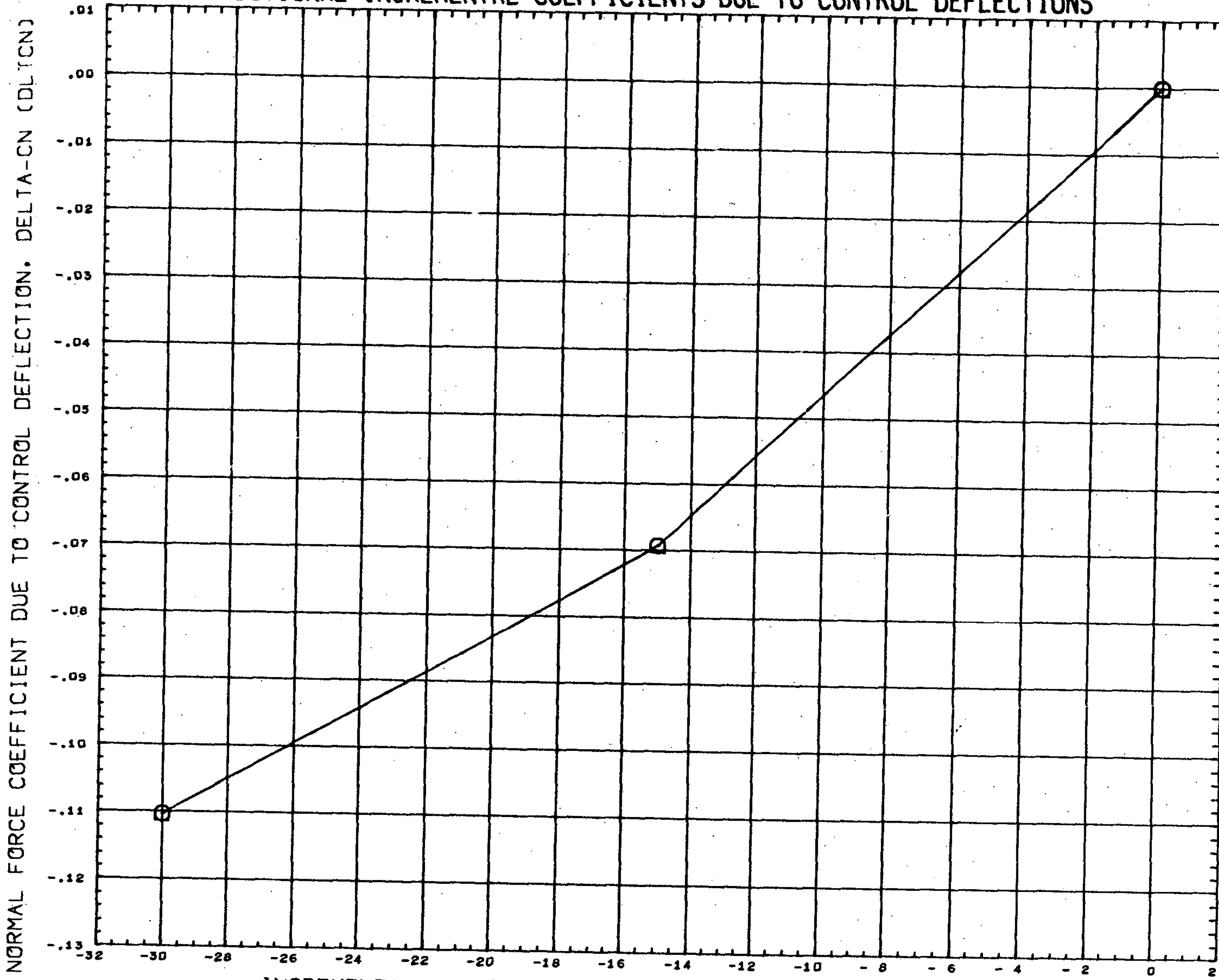
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



INCREMENTAL CANARD DEFLECTION, DELTA-CANARD (DLTCND) DEGREES

SYMBOL	ALPHA
▢	23.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
ELEVON	0.000	RUDDER	0.000

DATA SOURCE

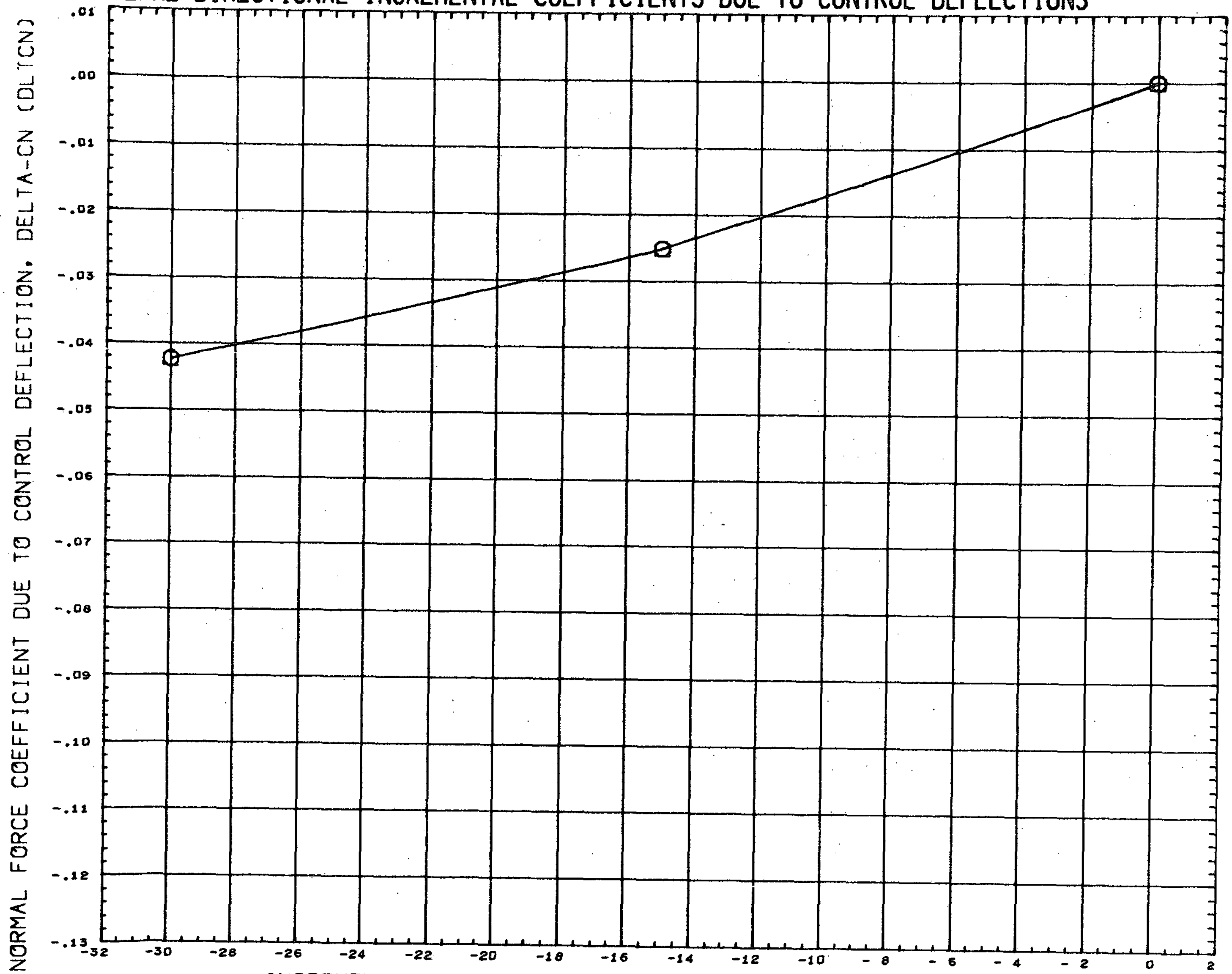
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
○	5.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
ELEVON	0.000	RUDDER	0.000

DATA SOURCE

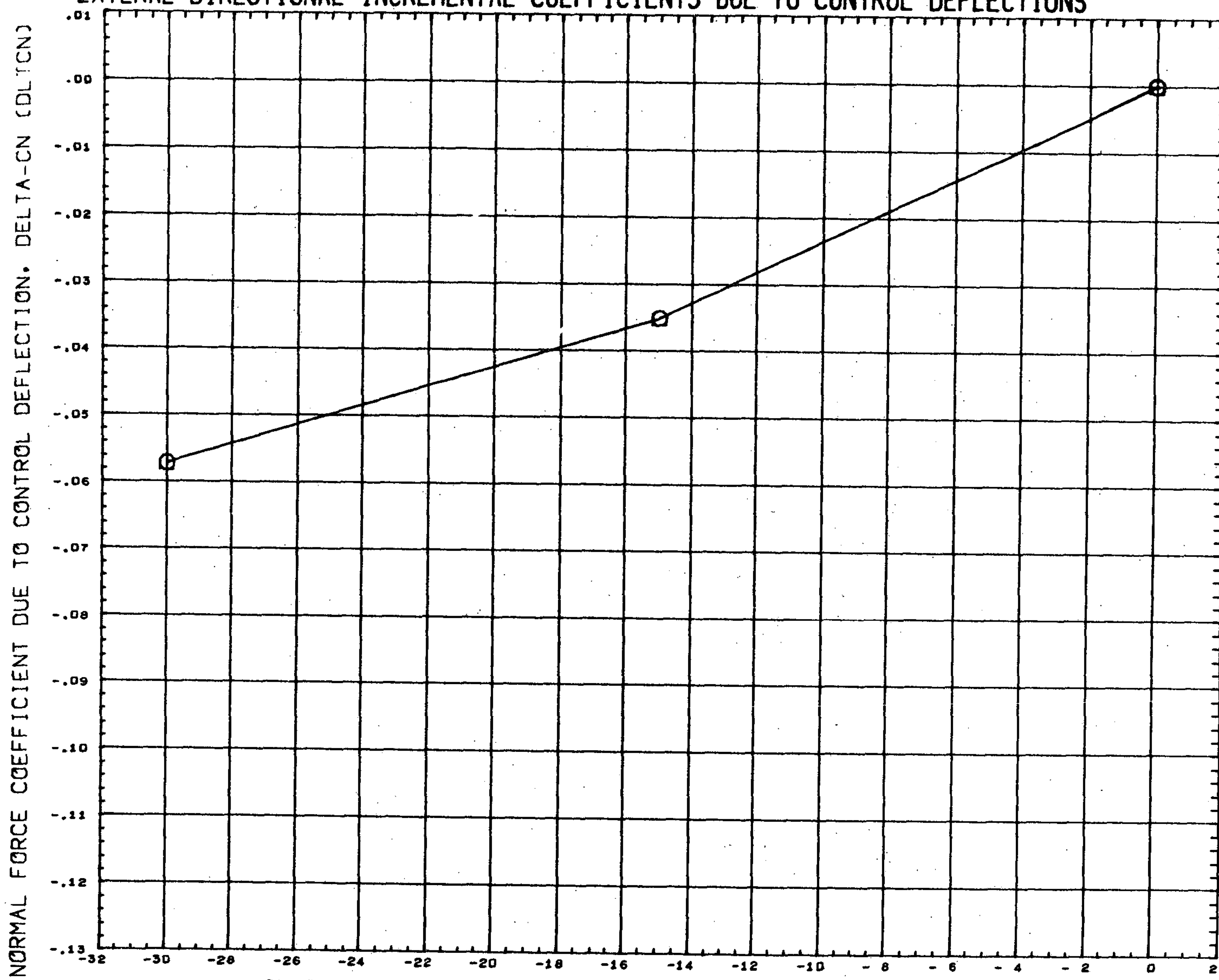
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA		PARAMETRIC VALUES		
O	10.000	MACH	1.200	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

DATA SOURCE

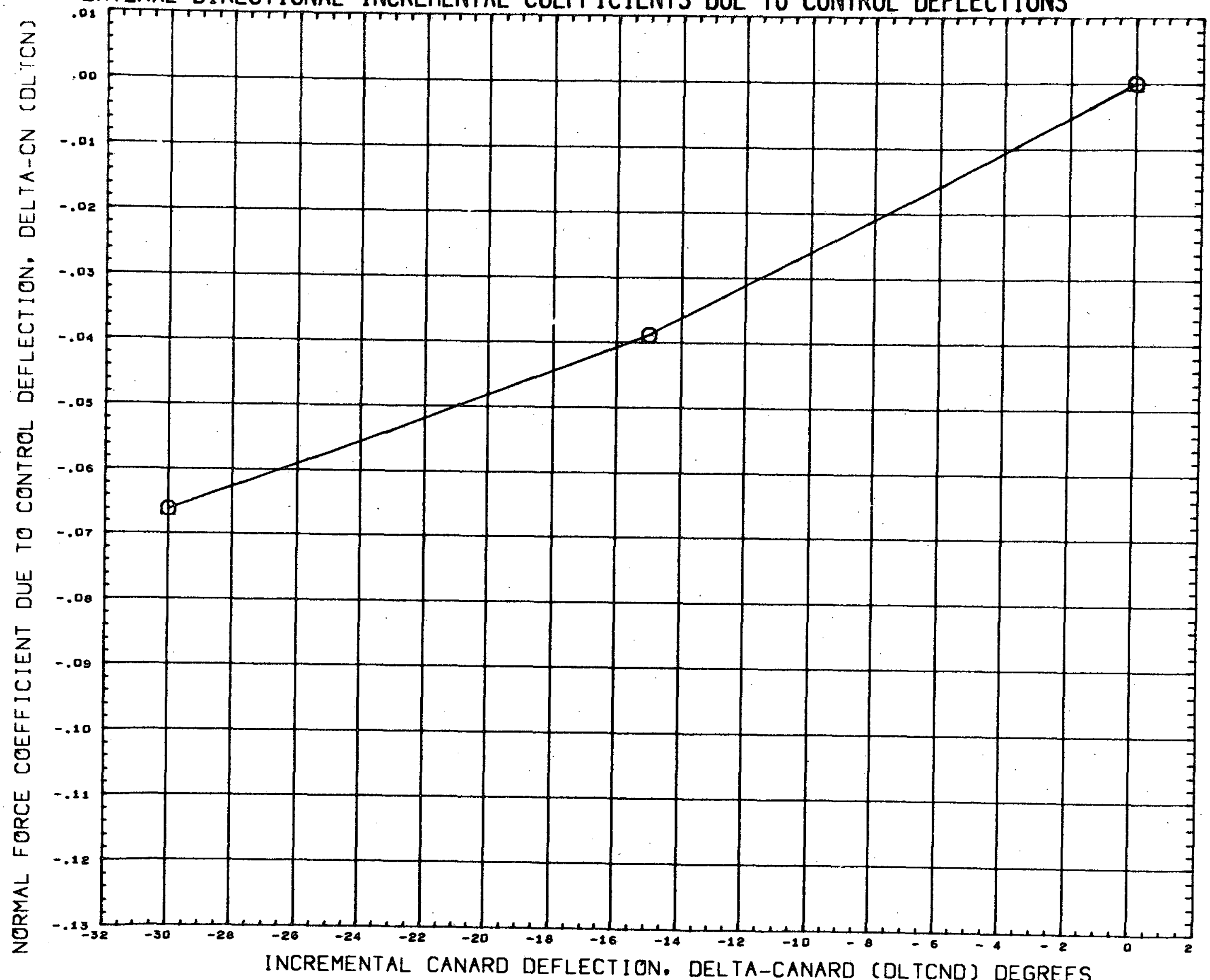
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	15.000	MACH	1.200	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

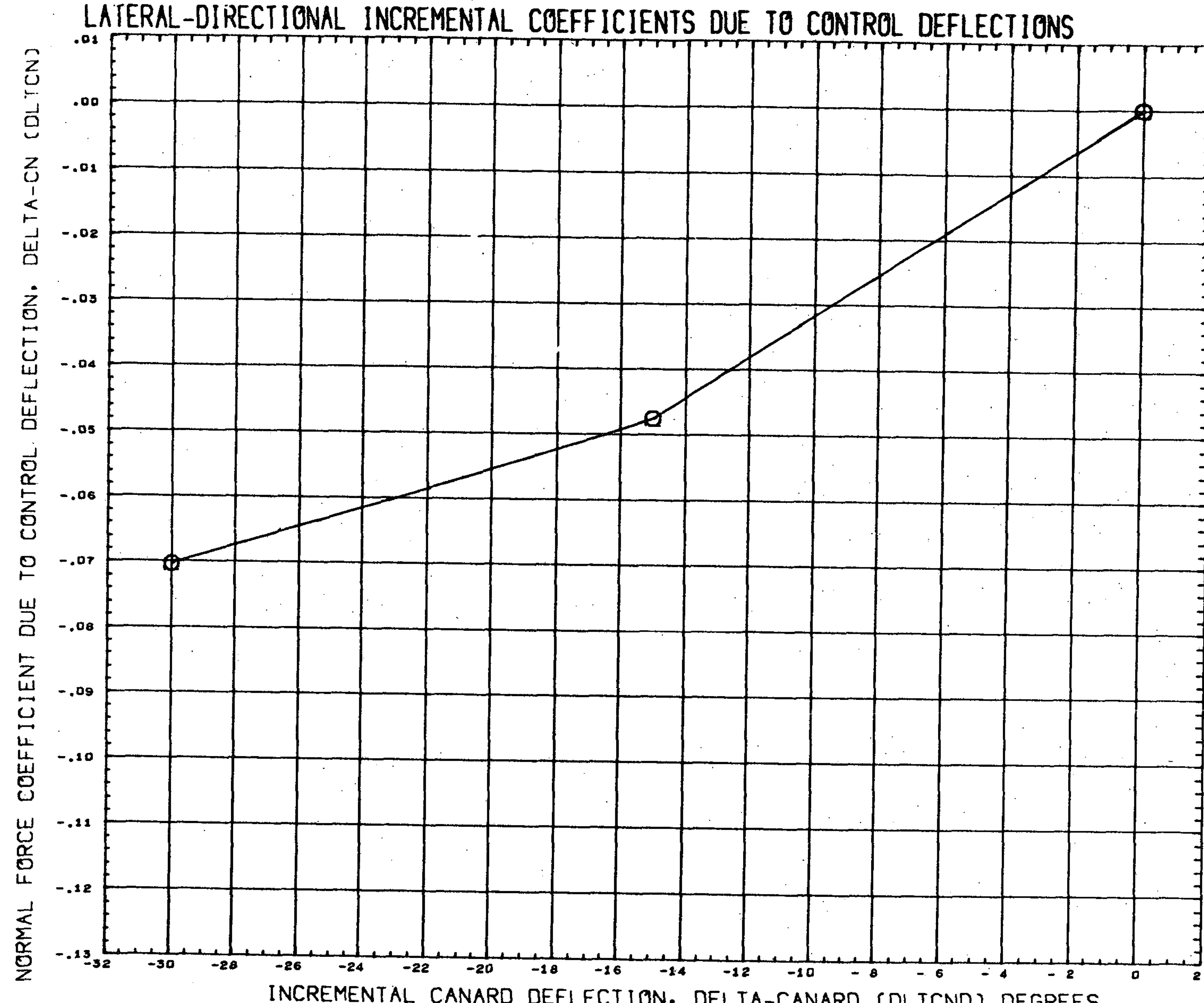
DATA SOURCE

DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA
O	20.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
ELEVON	0.000	RUDDER	0.000

DATA SOURCE

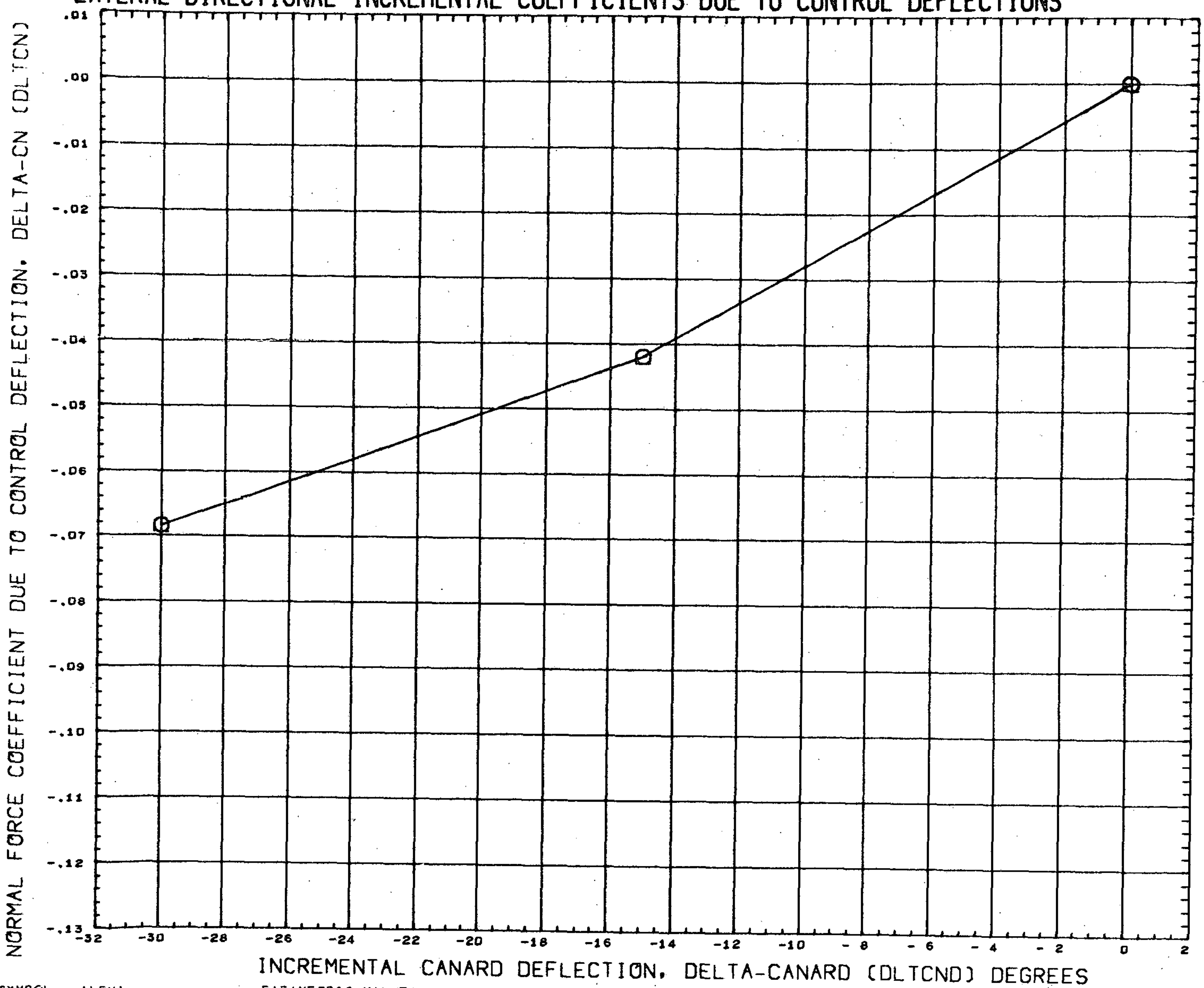
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALFHA	PARAMETRIC VALUES			
O	23.000	MACH	1.200	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

DATA SOURCE

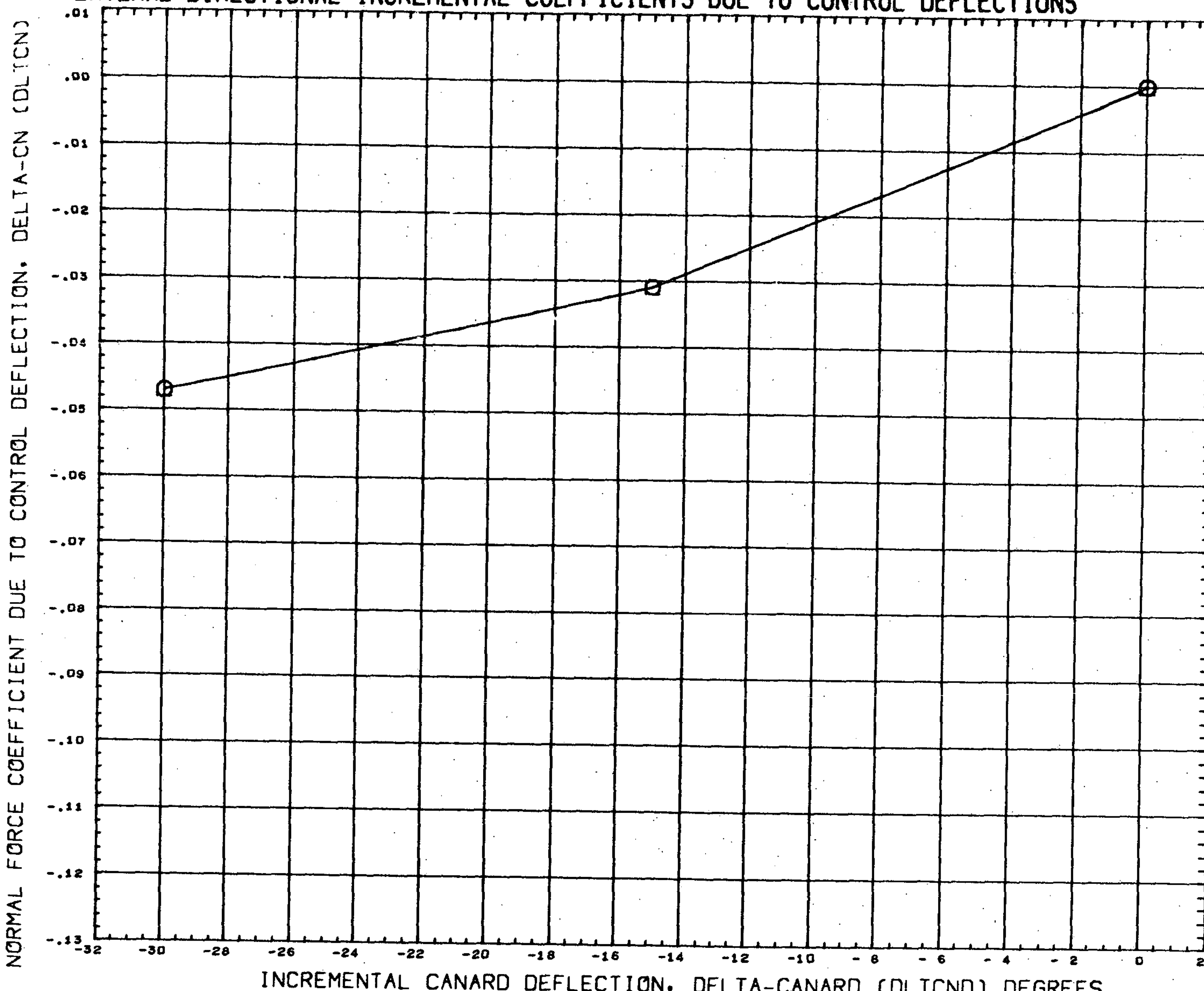
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	5.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
ELEVON	0.000	RUDDER	0.000

DATA SOURCE

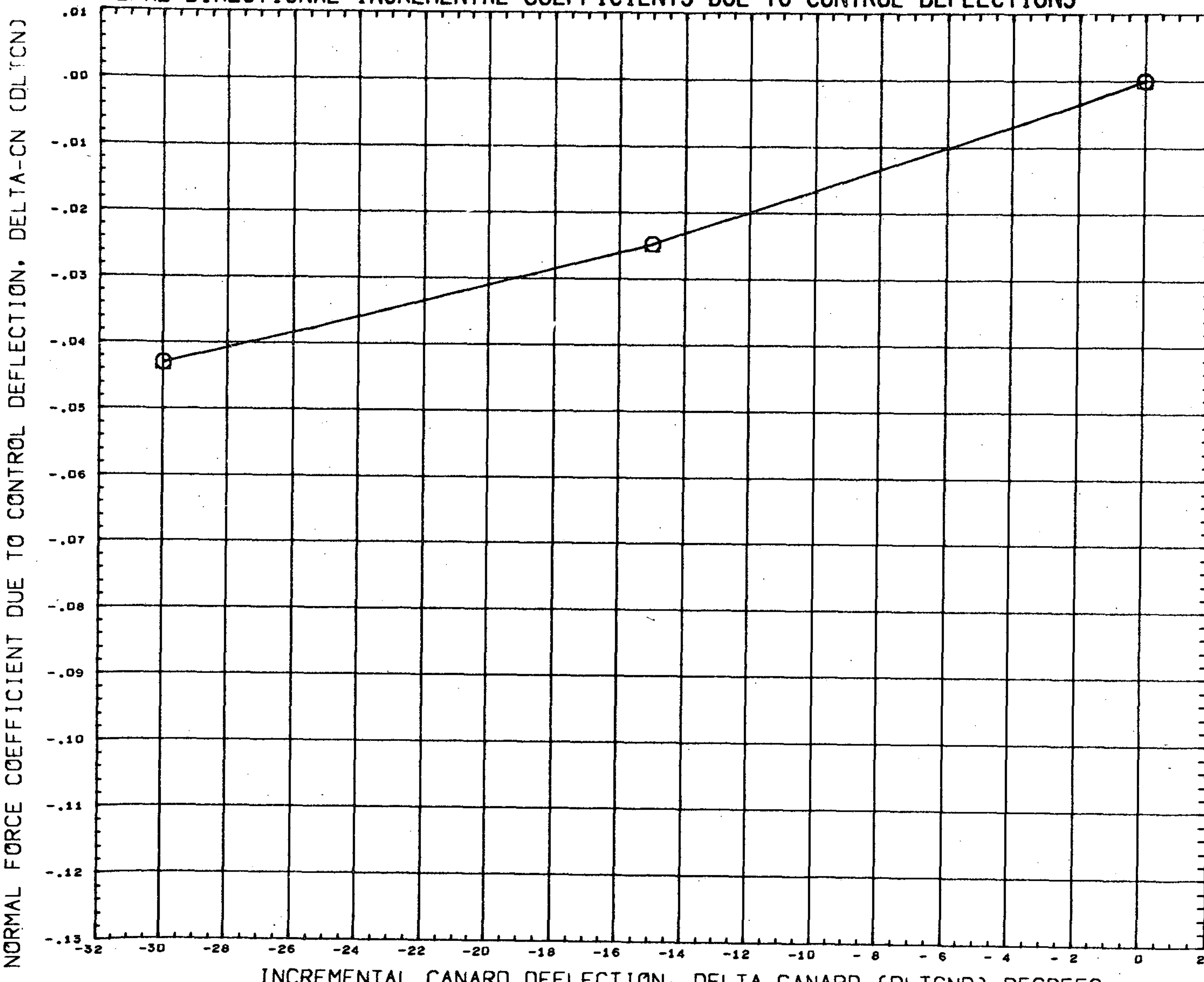
DATASET	DLTCND	DATASET	DLTCND
T35CAB	-30.000	T35CAA	-15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I#C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	10.000	MACH	2.000	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

DATA SOURCE

DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

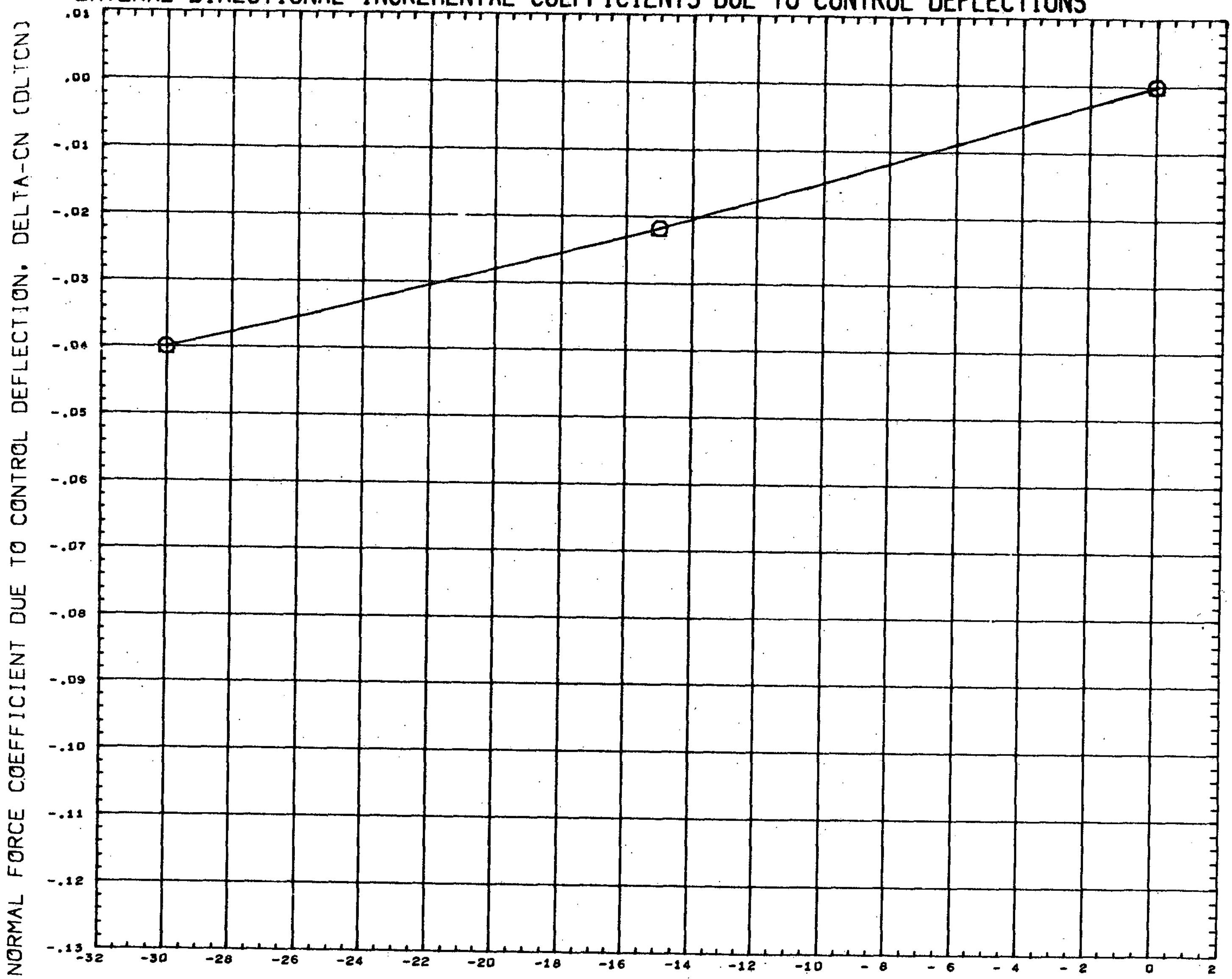
REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

-86

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	15.000	MACH	2.000	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

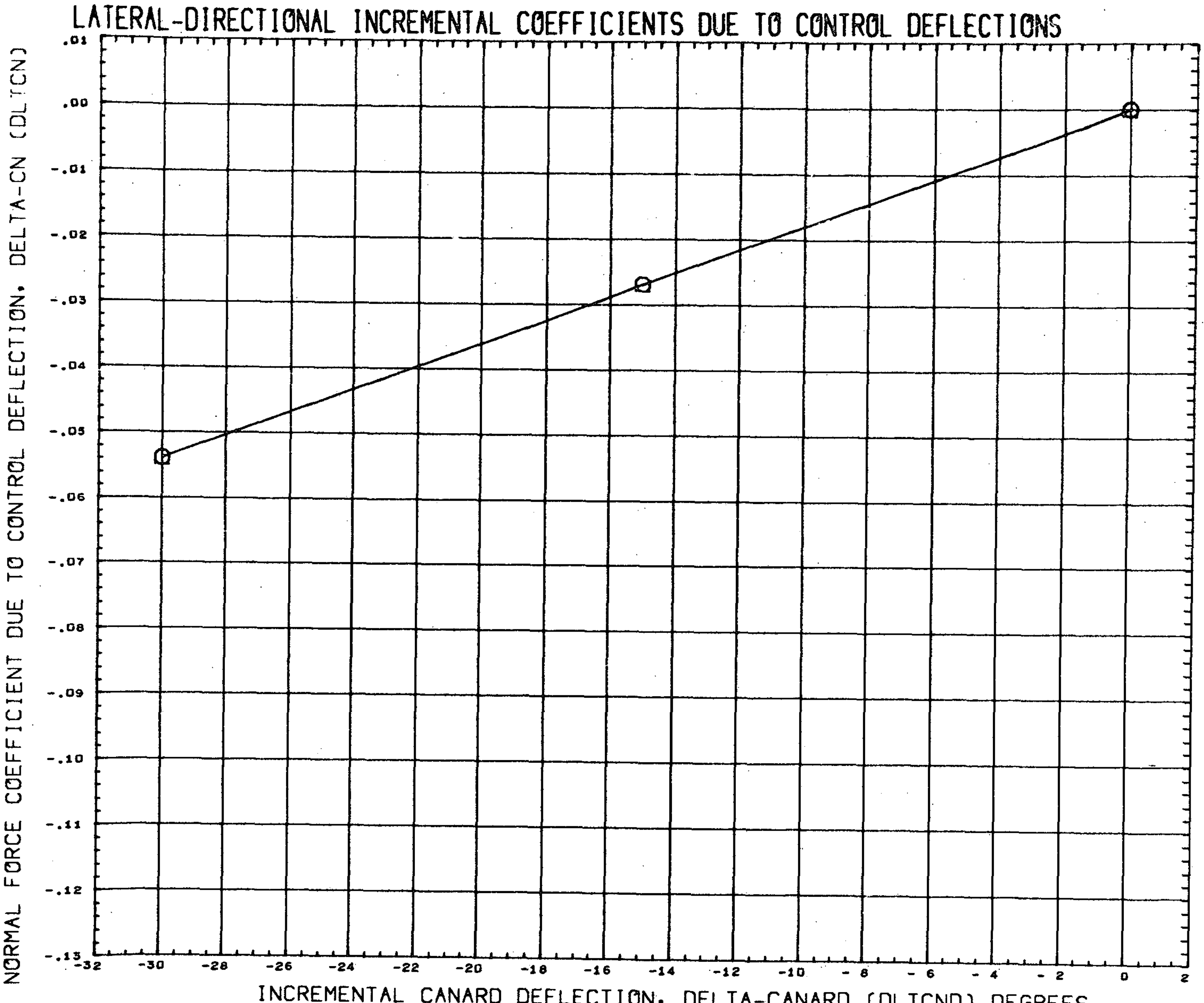
DATA SOURCE

DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	20.000	MACH	2.000	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

DATA SOURCE

DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS

SYMBOL	ALPHA
○	23.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
ELEVON	0.000	RUDDER	0.000

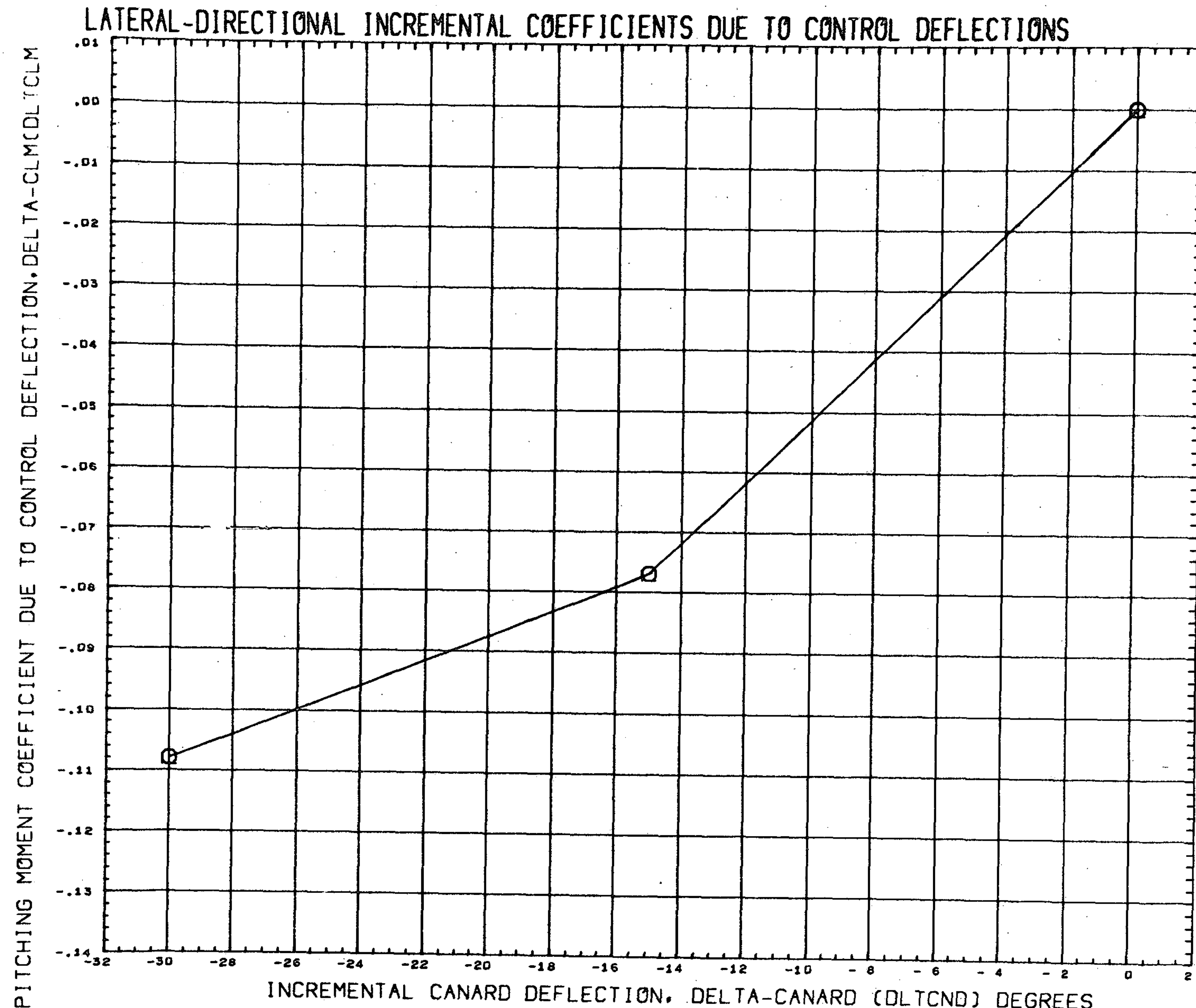
DATA SOURCE

DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA	PARAMETRIC VALUES			
◻	5.000	MACH	0.900	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

DATA SOURCE

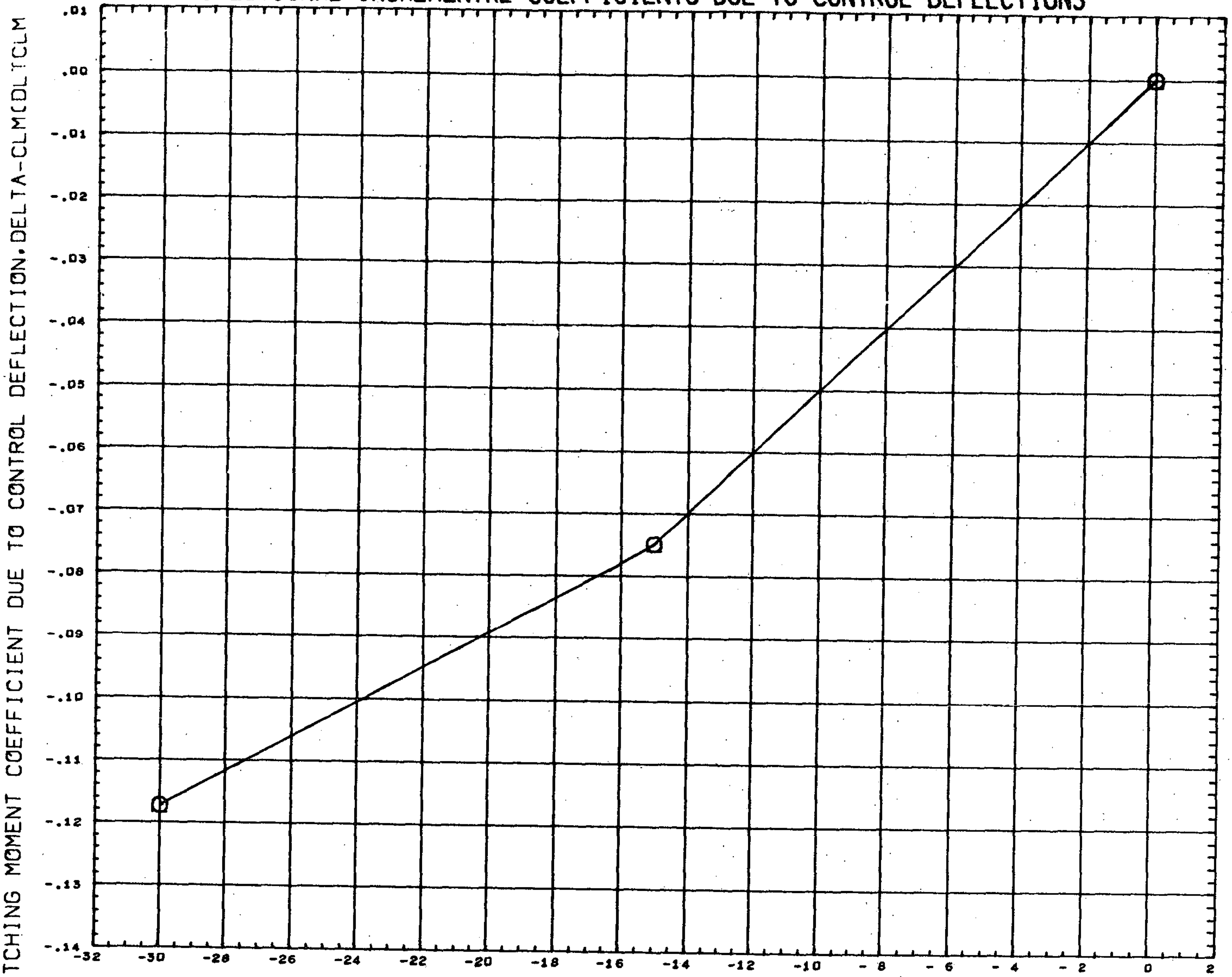
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



INCREMENTAL CANARD DEFLECTION, DELTA-CANARD (DLTCND) DEGREES

SYMBOL	ALPHA	PARAMETRIC VALUES			
O	10.000	MACH	0.900	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

DATA SOURCE

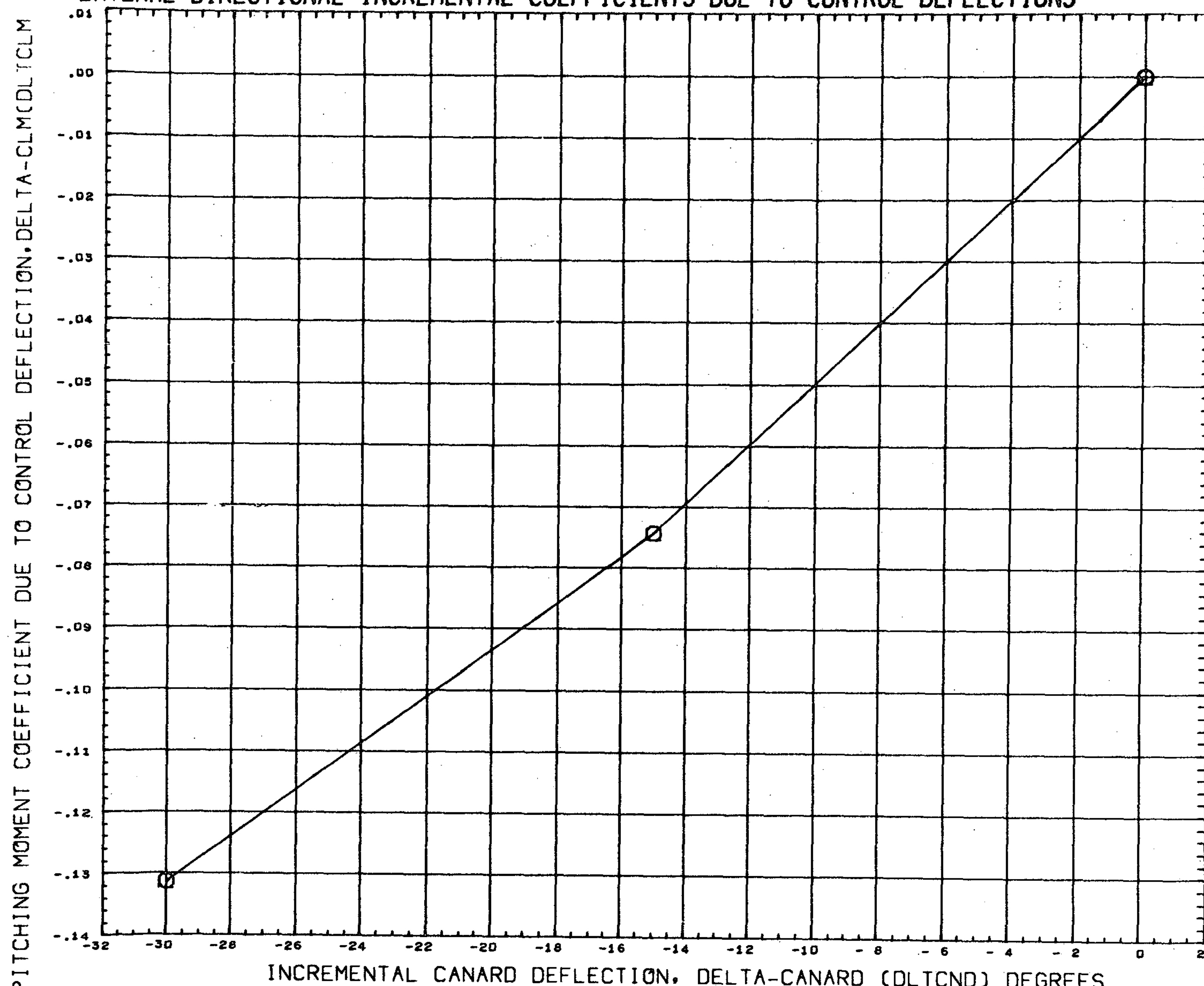
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



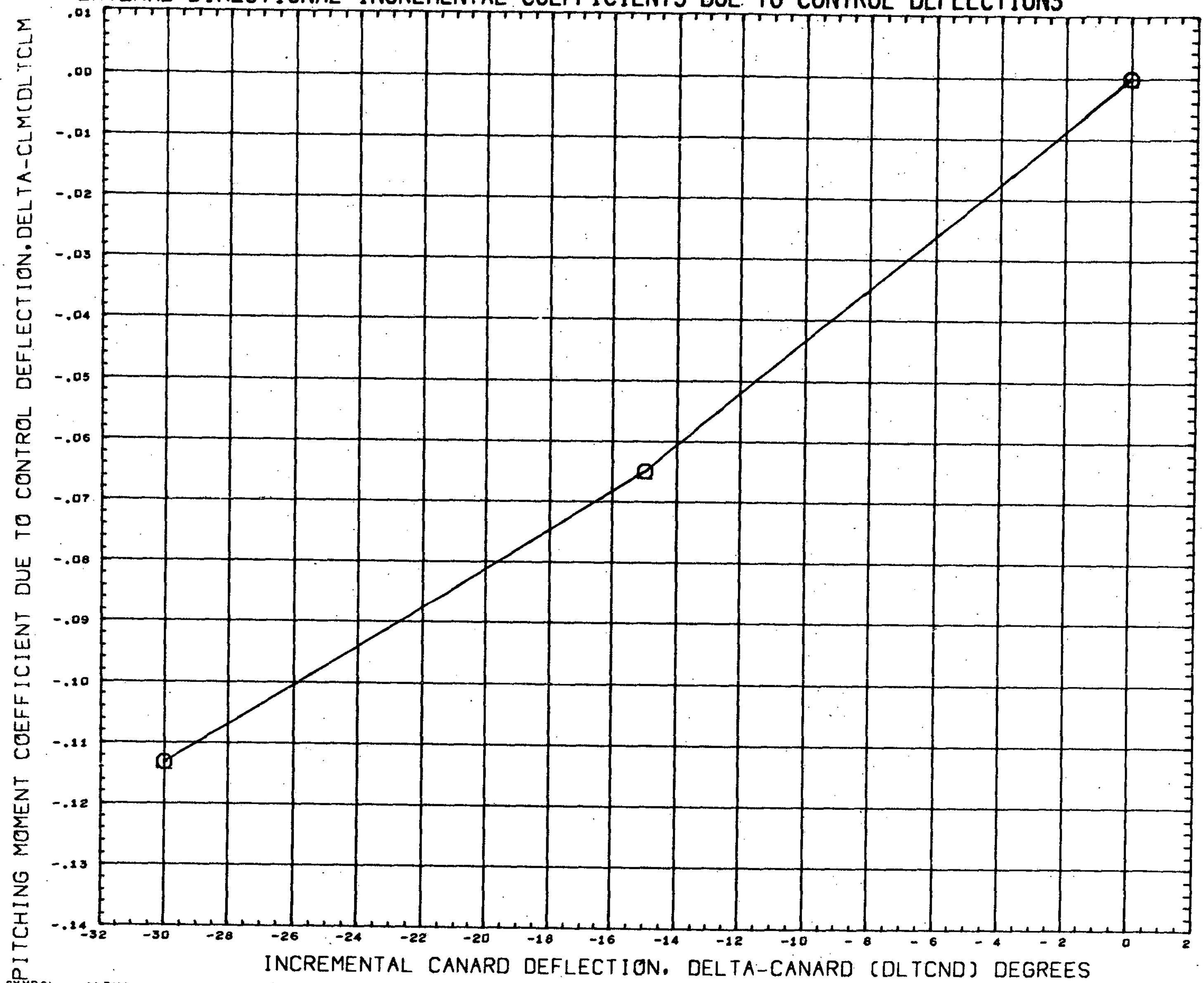
SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE			
O	15.000	MACH	0.900	BETA	0.000	DATASET	DLTCND	DATASET	DLTCND
		ELEVON	0.000	RUDDER	0.000	T35CAB	- 30.000	T35CAA	- 15.000
						T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
◻	20.000	MACH	0.900	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

DATA SOURCE

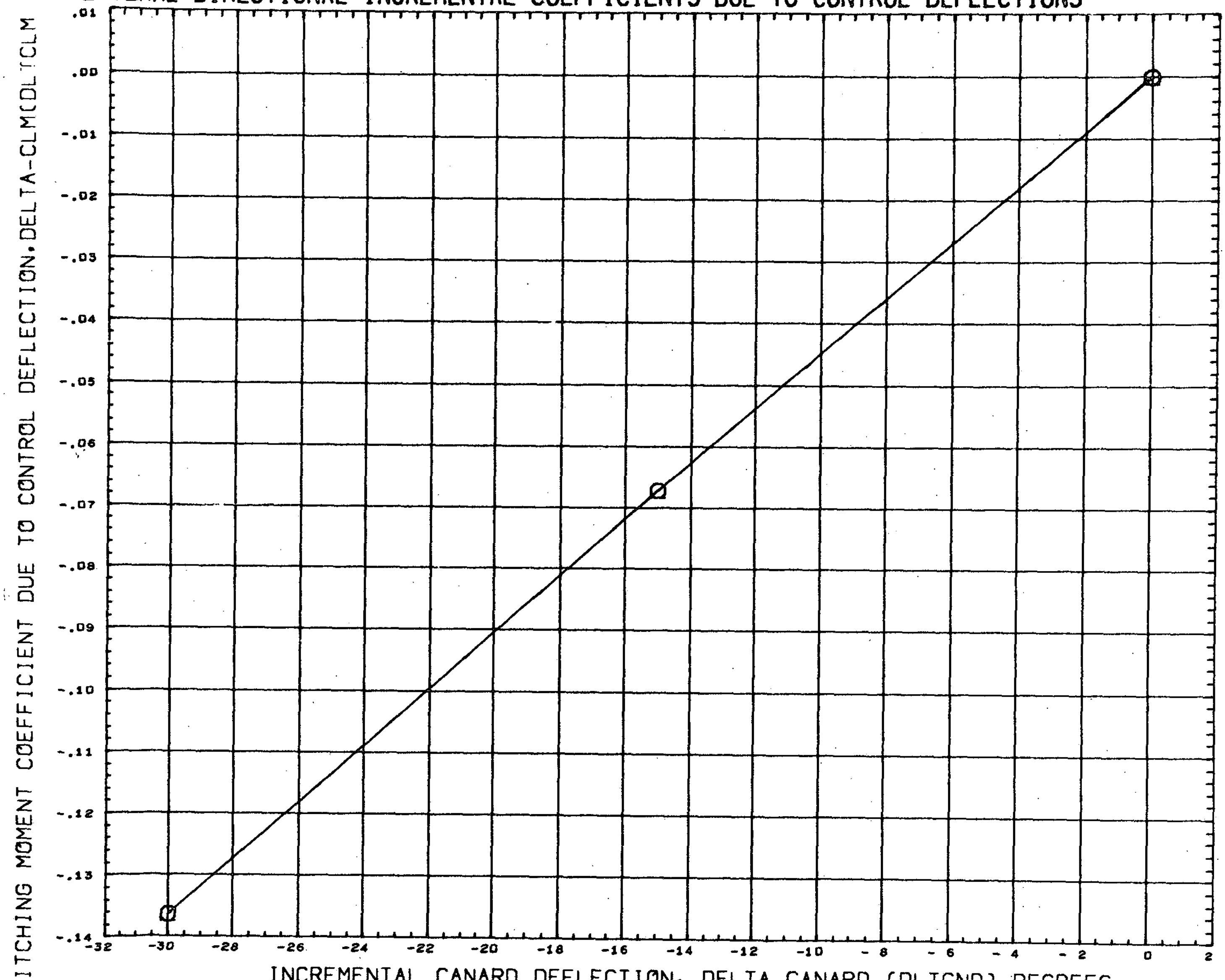
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	23.000	MACH	0.900	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

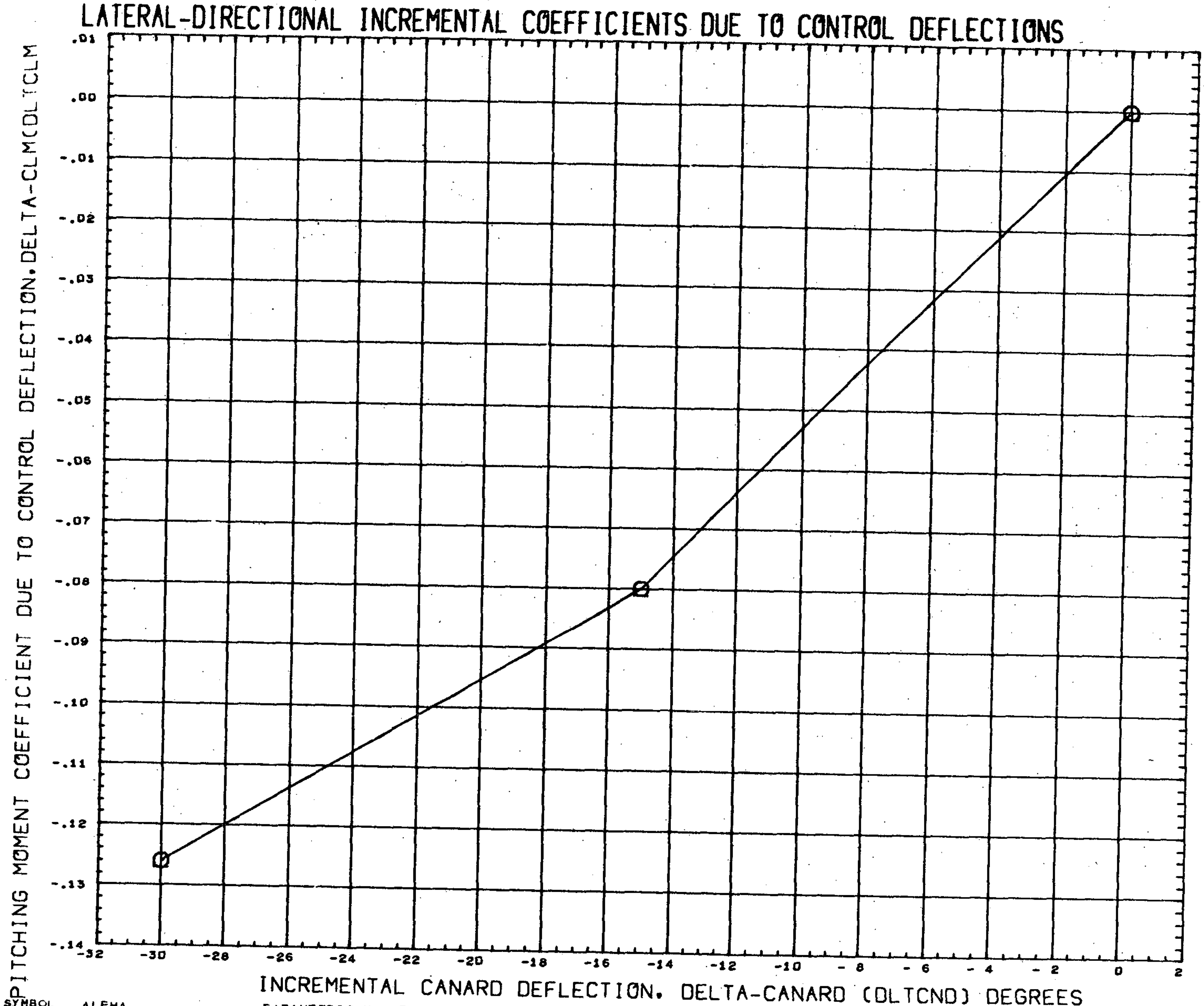
DATA SOURCE

DATASET	DLTCND	DATASET	DLTCND
T35CAB	-30.000	T35CAA	-15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I#C



SYMBOL	ALPHA
O	5.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
ELEVON	0.000	RUDDER	0.000

DATA SOURCE

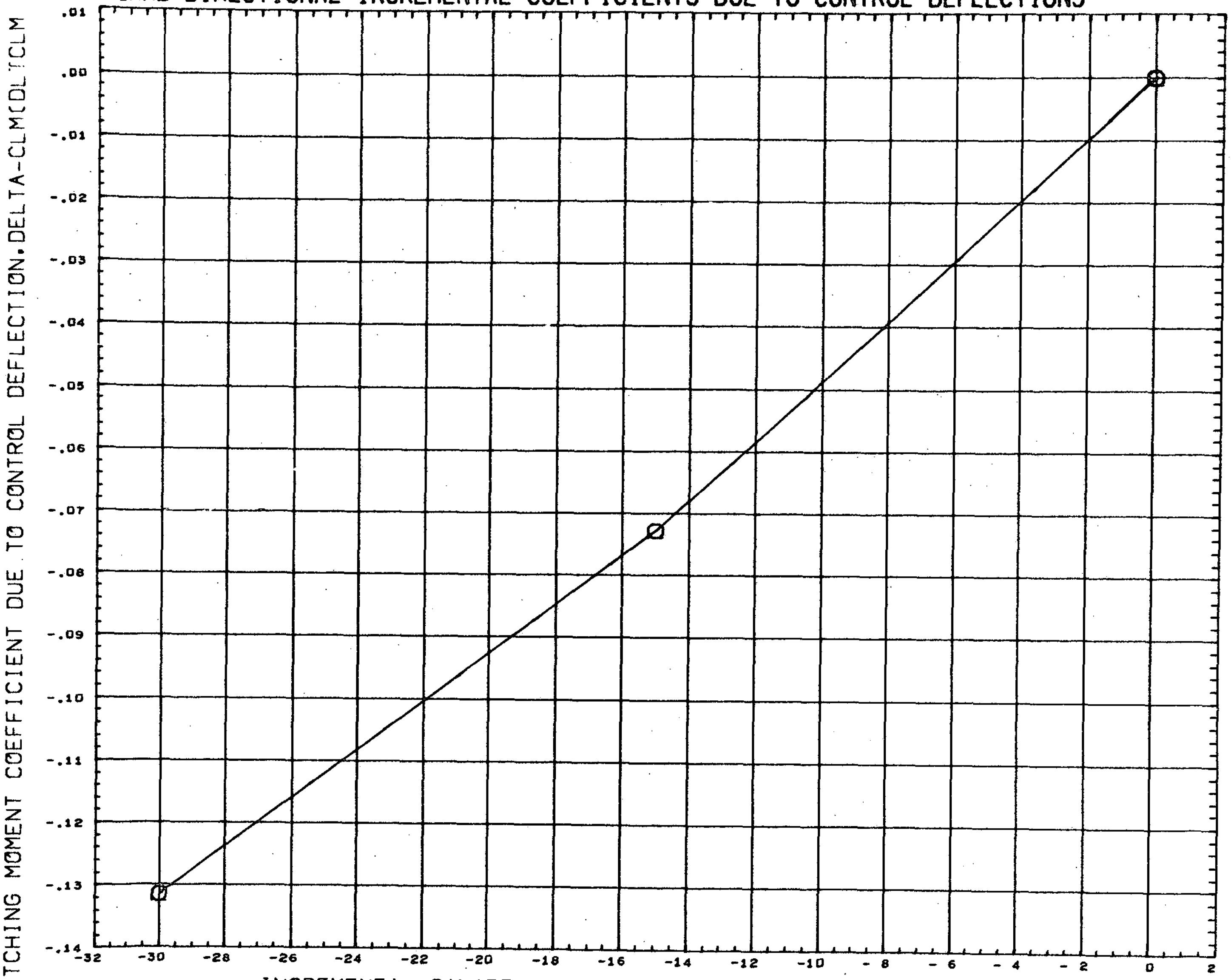
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	10.000	MACH	1.200	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

DATA SOURCE

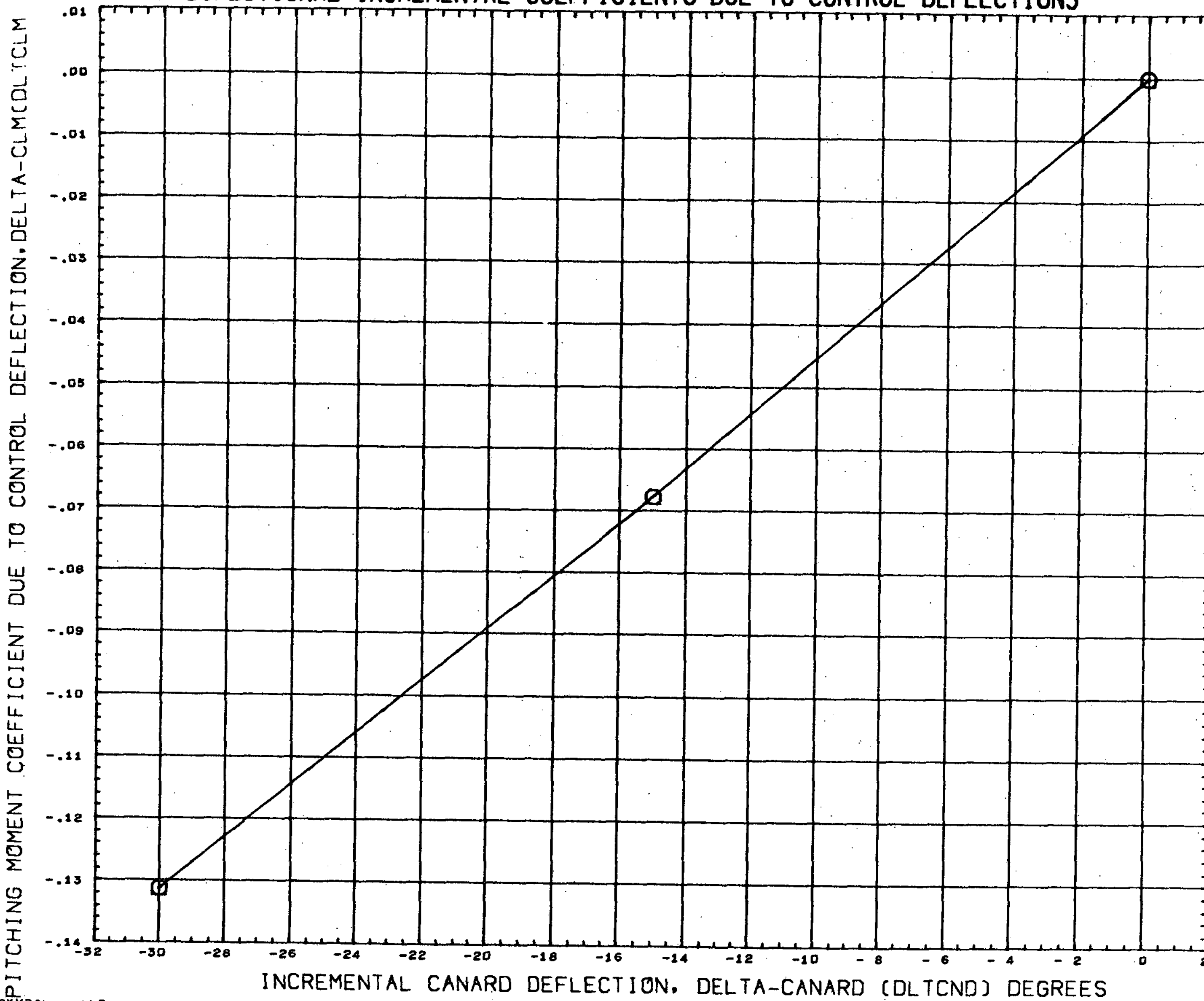
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
○	15.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
ELEVON	0.000	RUDDER	0.000

DATA SOURCE

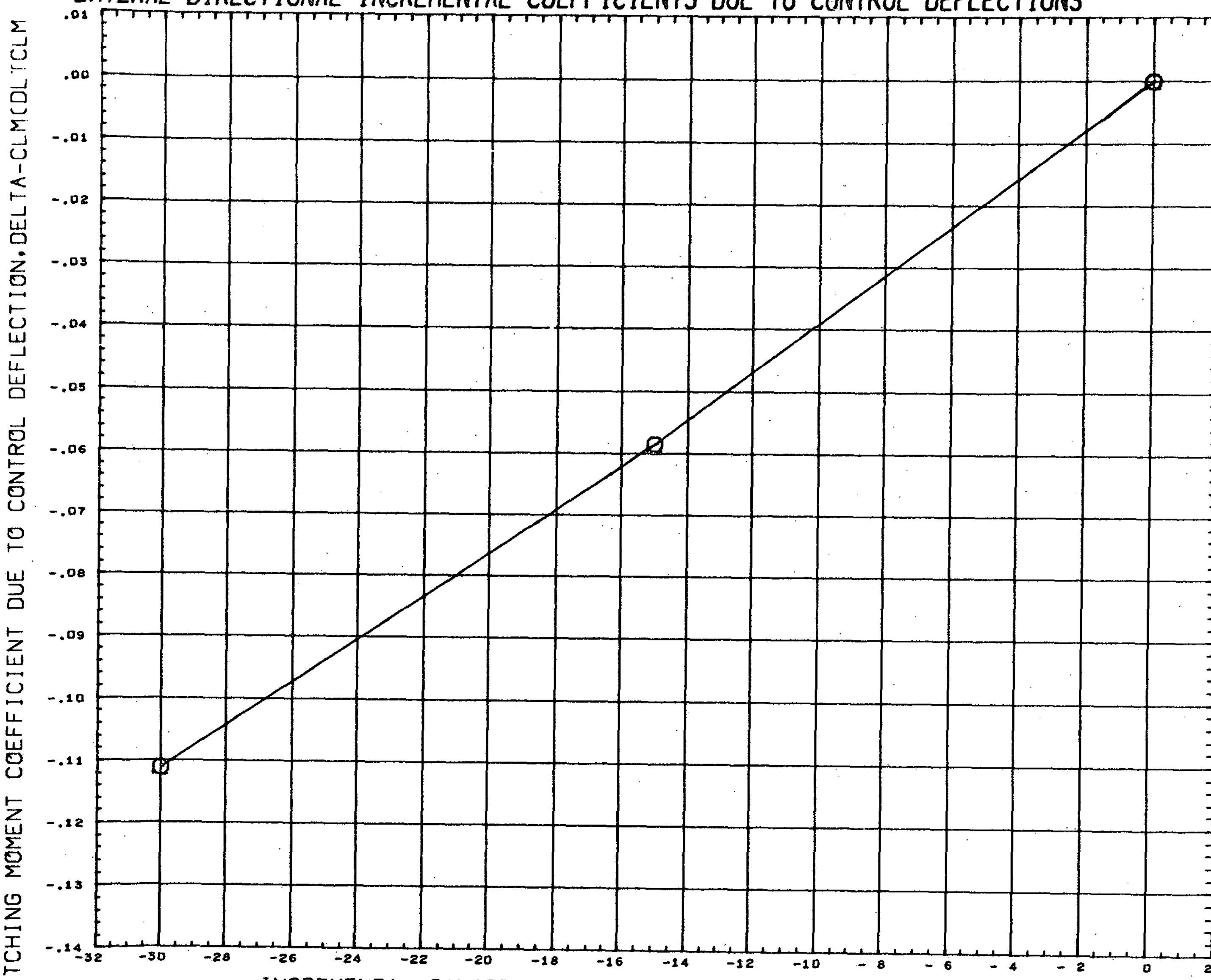
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	20.000	MACH	1.200	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

DATA SOURCE

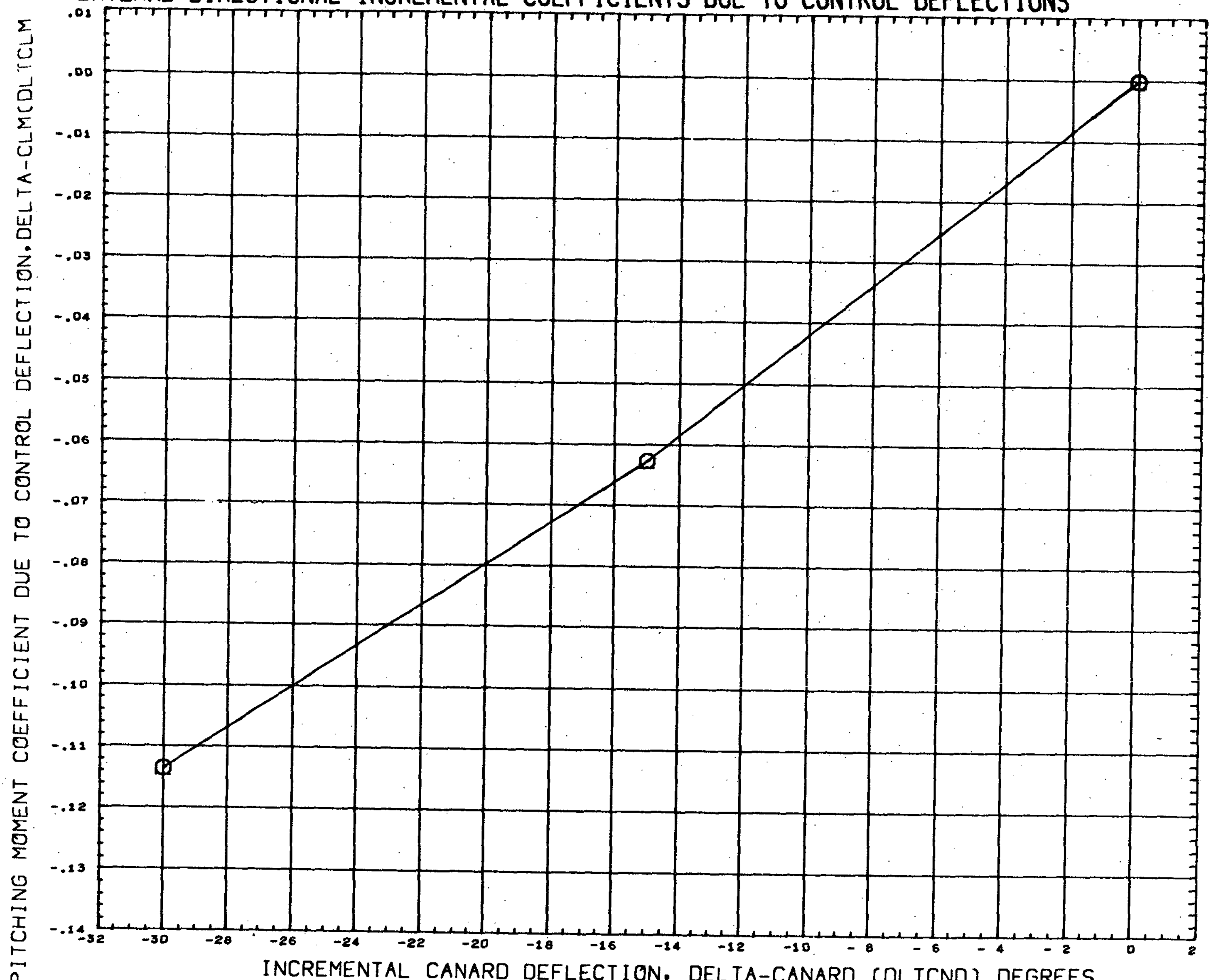
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
○	23.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
ELEVON	0.000	RUDDER	0.000

DATA SOURCE

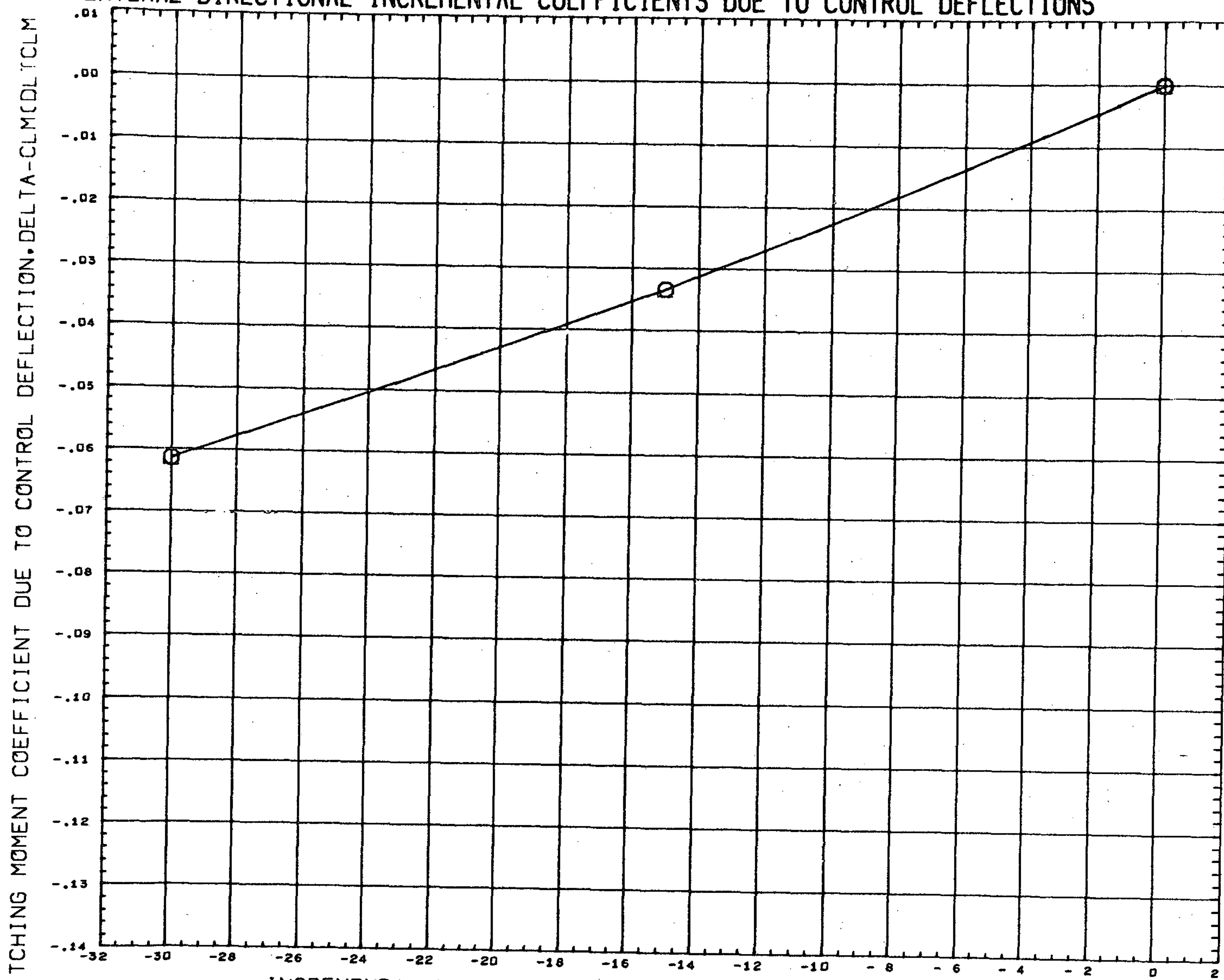
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
◻	5.000	MACH	2.000	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

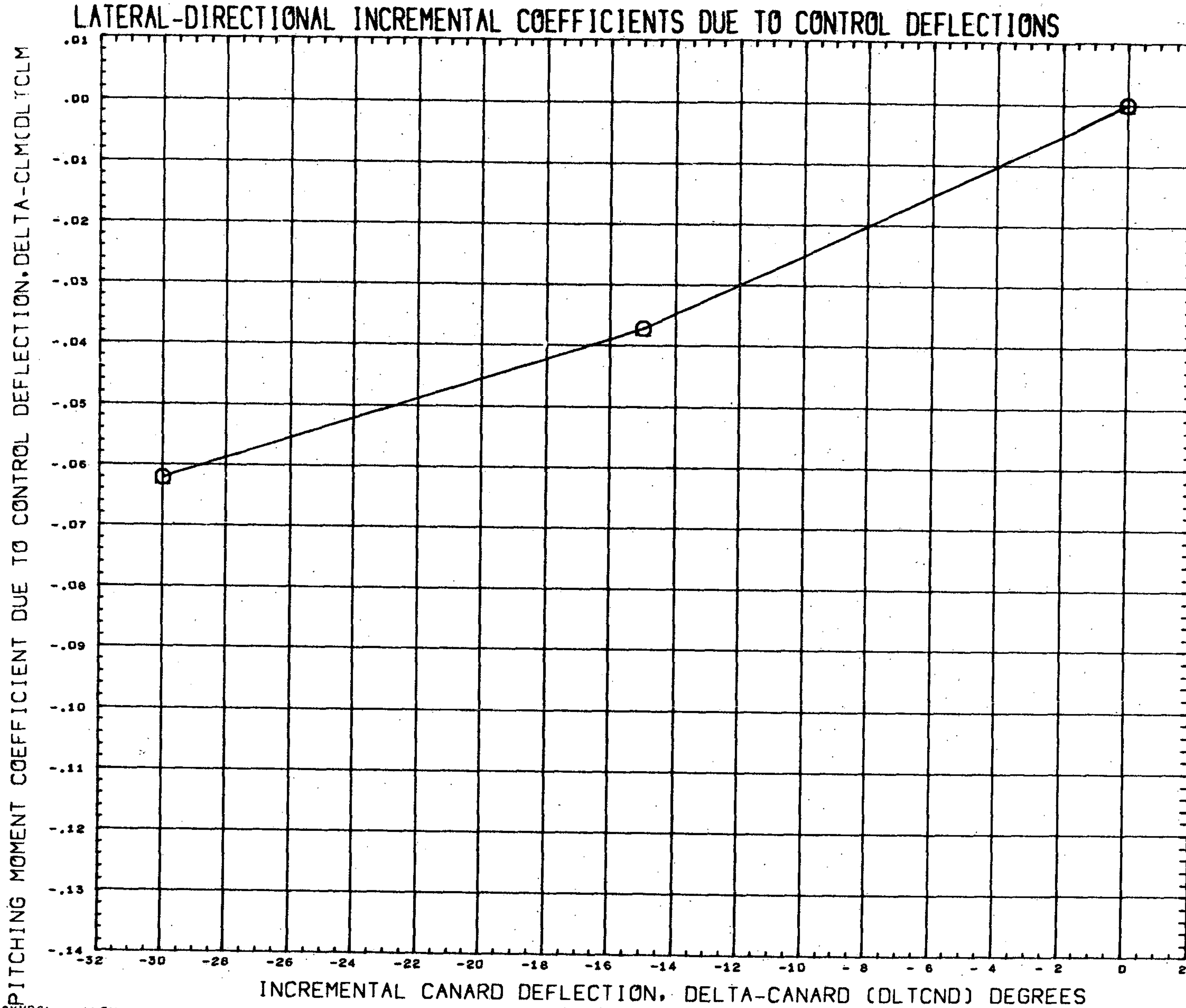
DATA SOURCE

DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	10.000	MACH	2.000	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

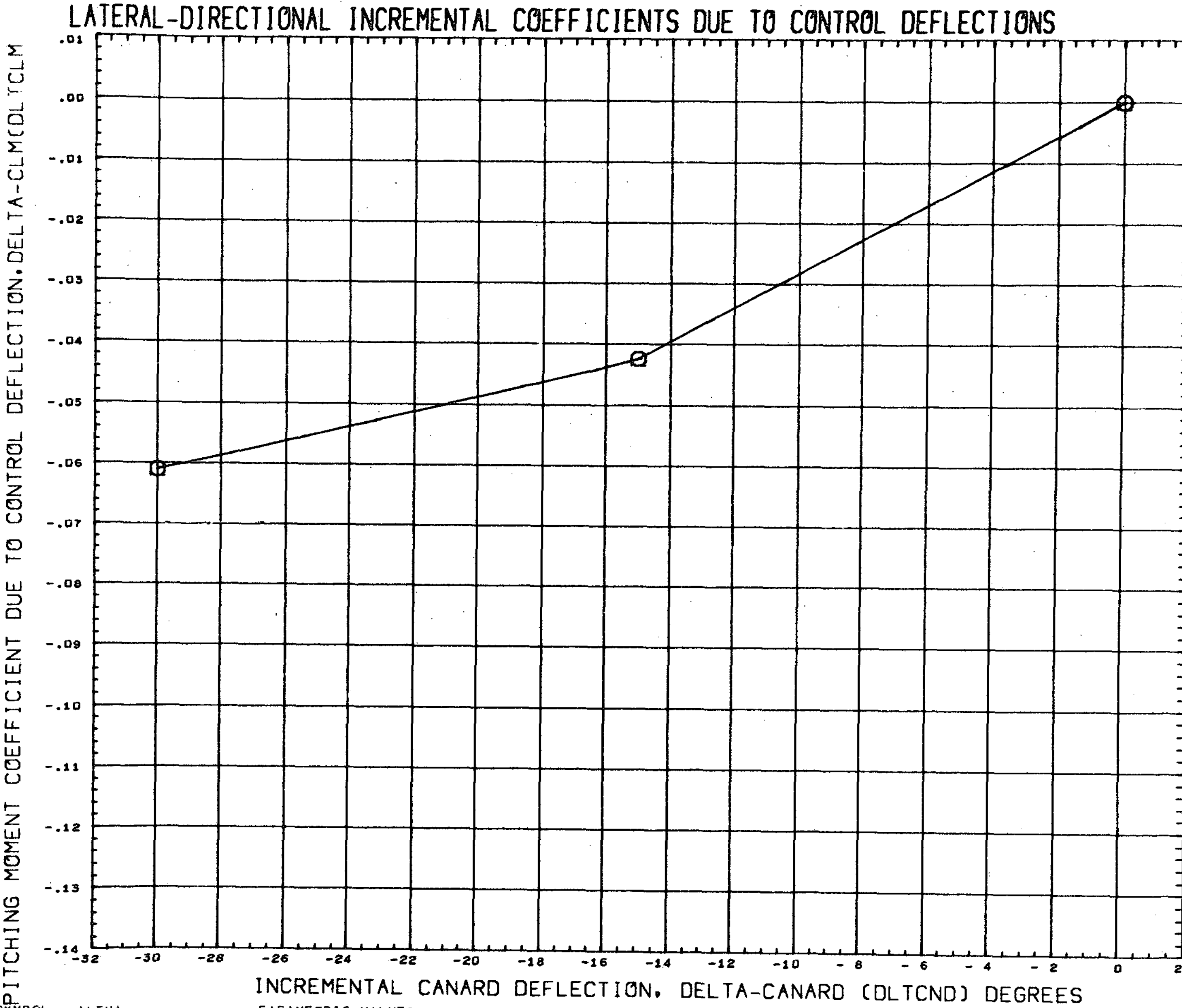
DATA SOURCE

DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALFHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
						DATASET	DLTCND	DATASET	DLTCND			
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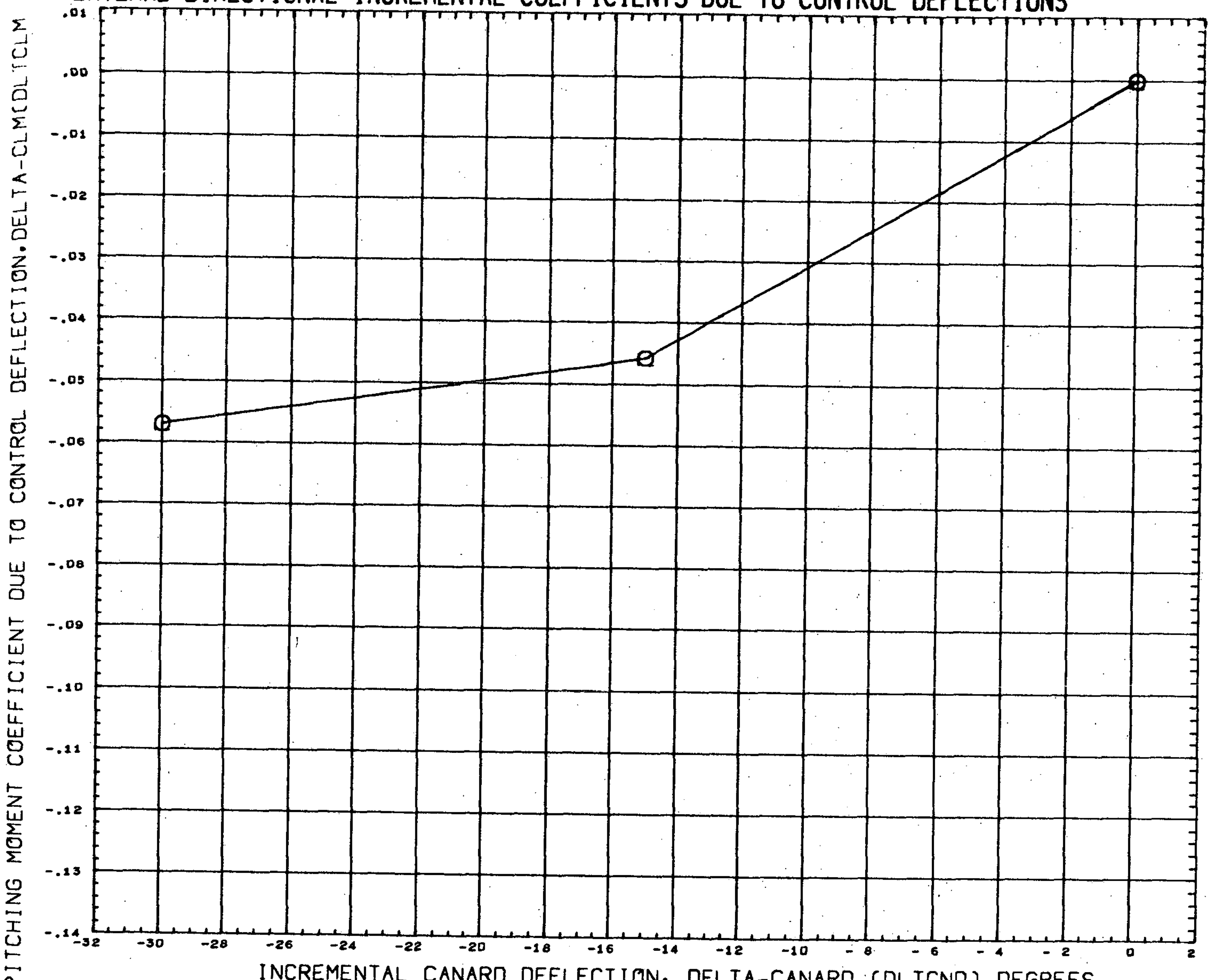
		ELEVON	0.000	RUDDER	0.000	T35EAO	0.000			LREF	3.0120	IN.
										BREF	6.0180	IN.
										XMRP	7.2990	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	20.000	MACH	2.000	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

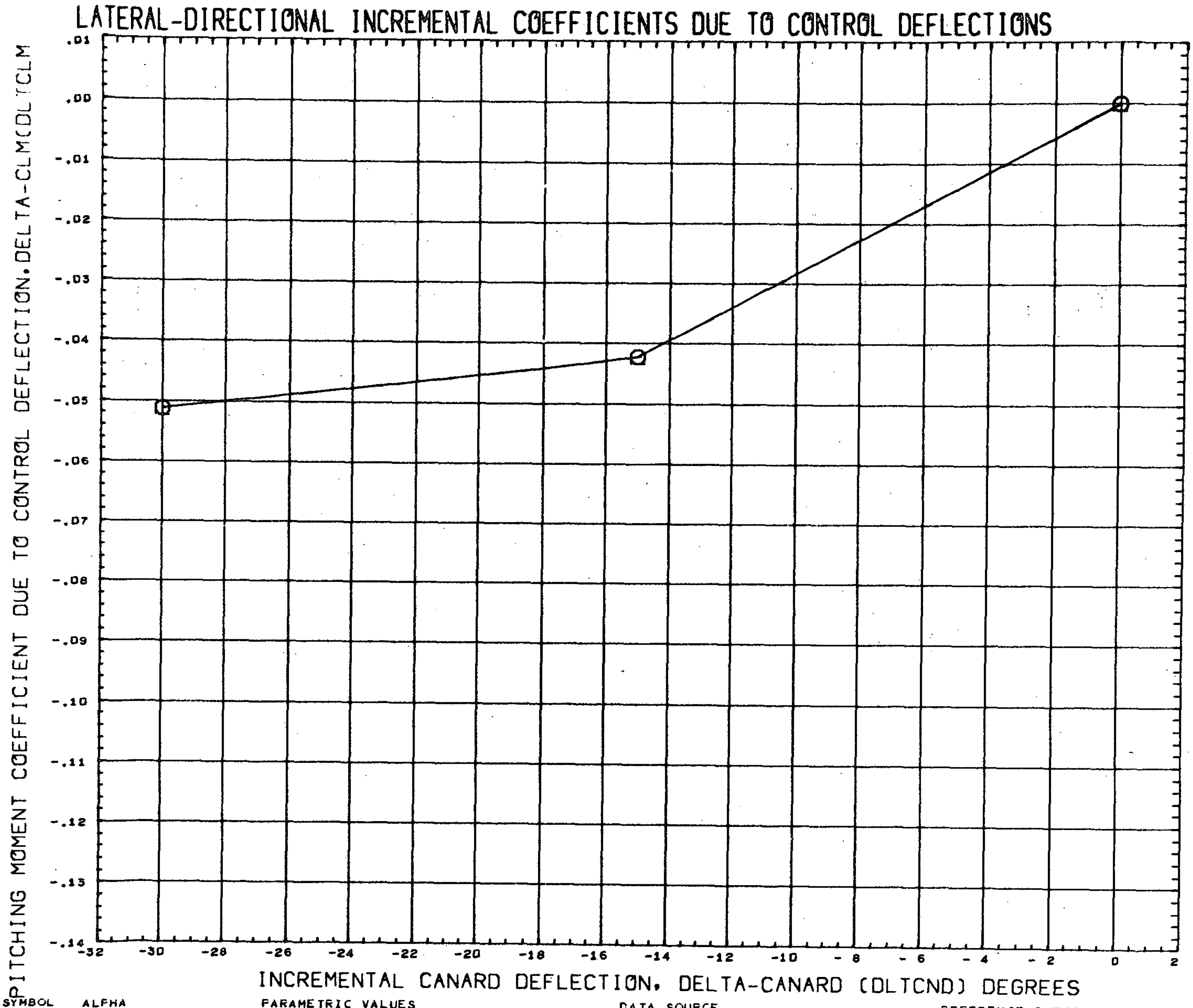
DATA SOURCE

DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	23.000	MACH	2.000	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

DATA SOURCE

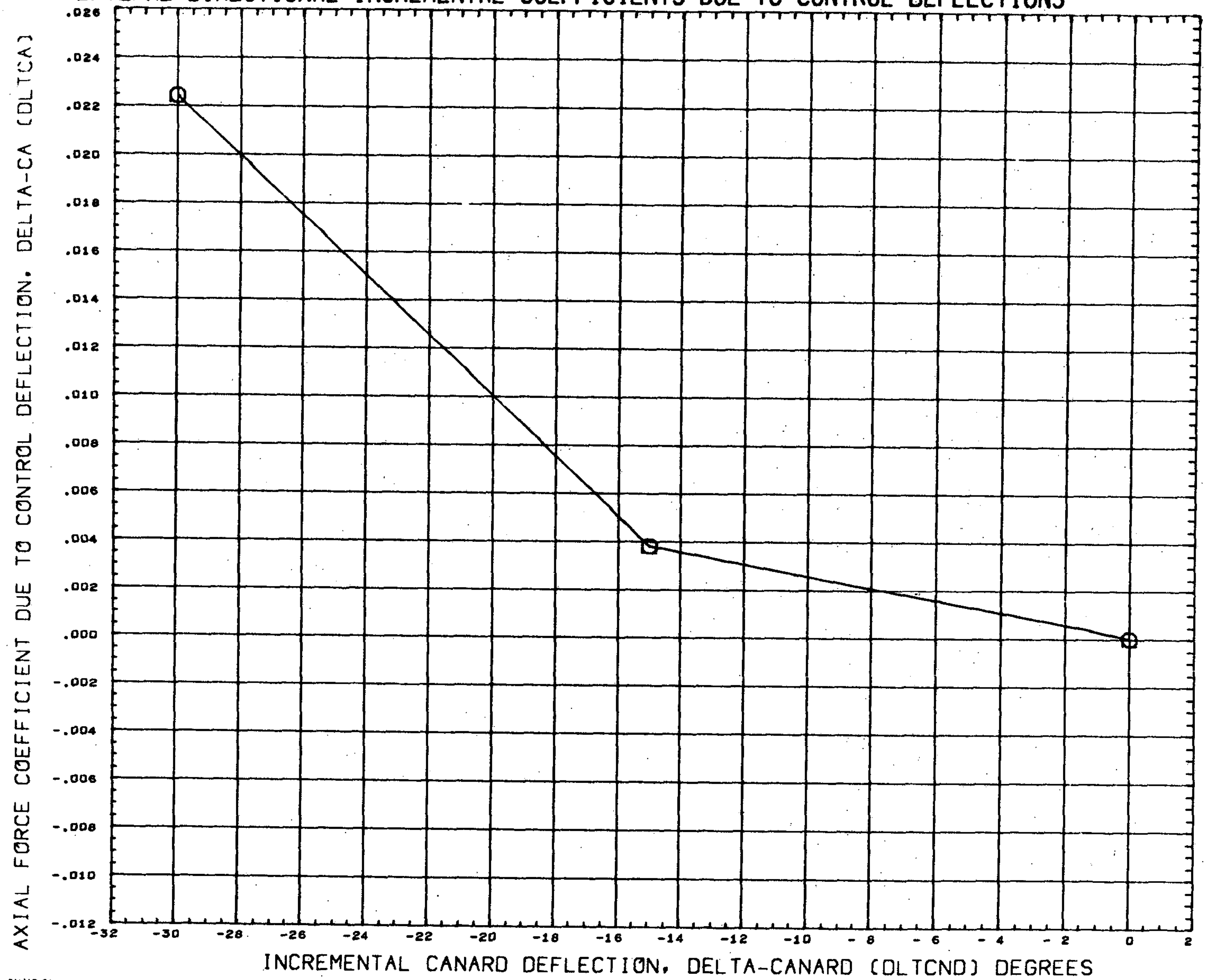
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	5.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
ELEVON	0.000	RUDDER	0.000

DATA SOURCE

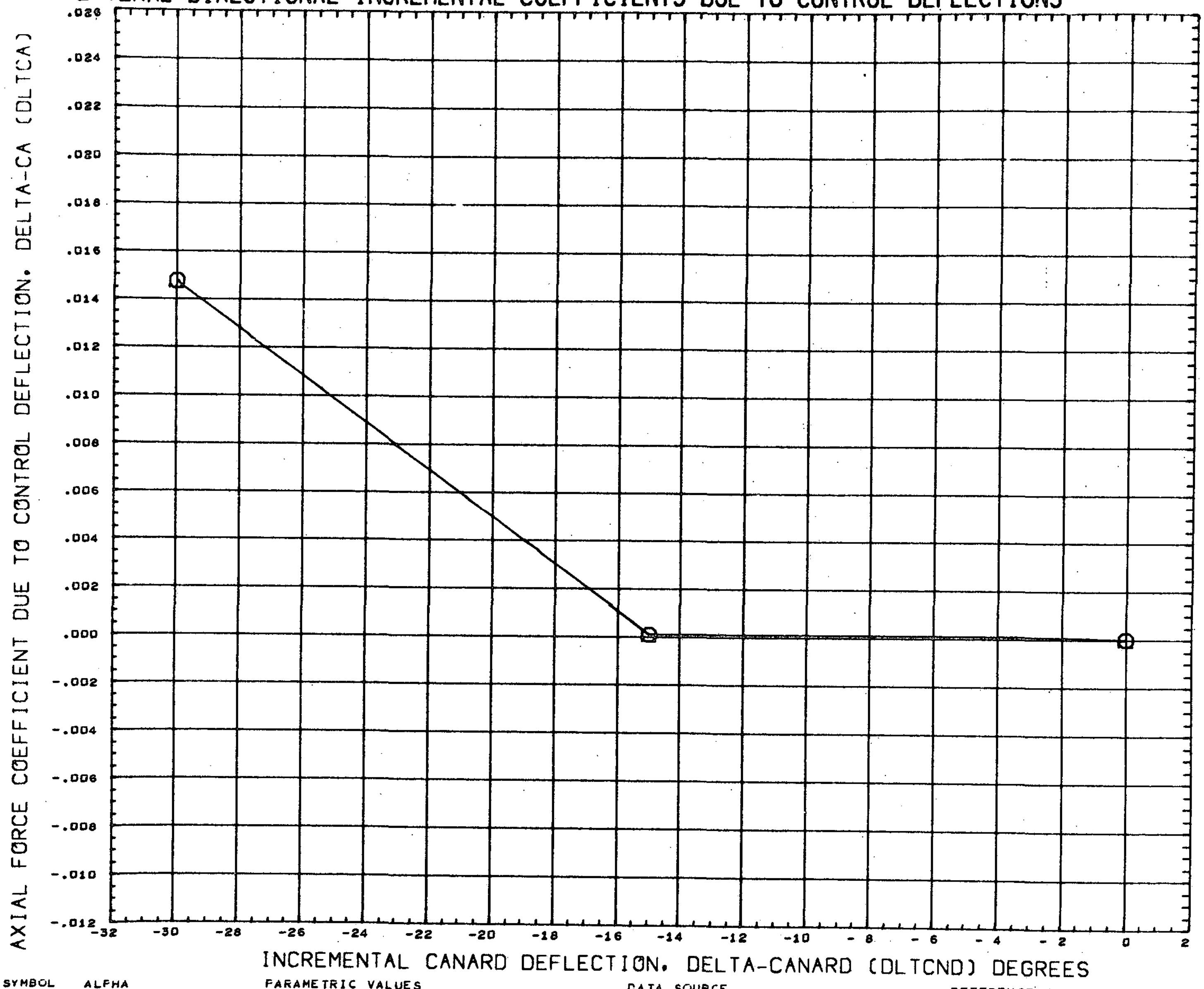
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL O ALPHA 10.000

PARAMETRIC VALUES

MACH 0.900 BETA 0.000

ELEVON 0.000 RUDDER 0.000

DATA SOURCE

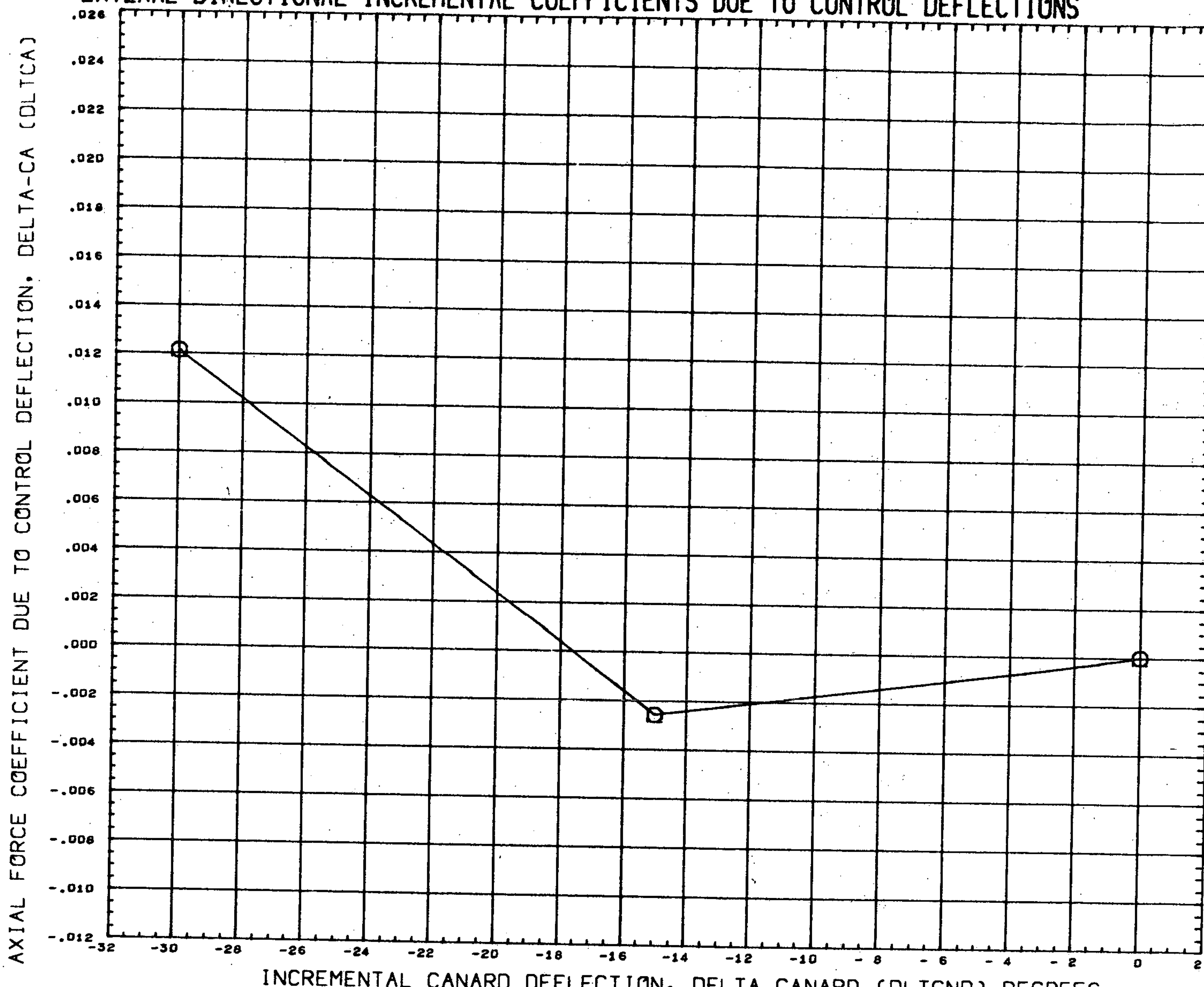
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
▢	15.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
ELEVON	0.000	RUDDER	0.000

DATA SOURCE

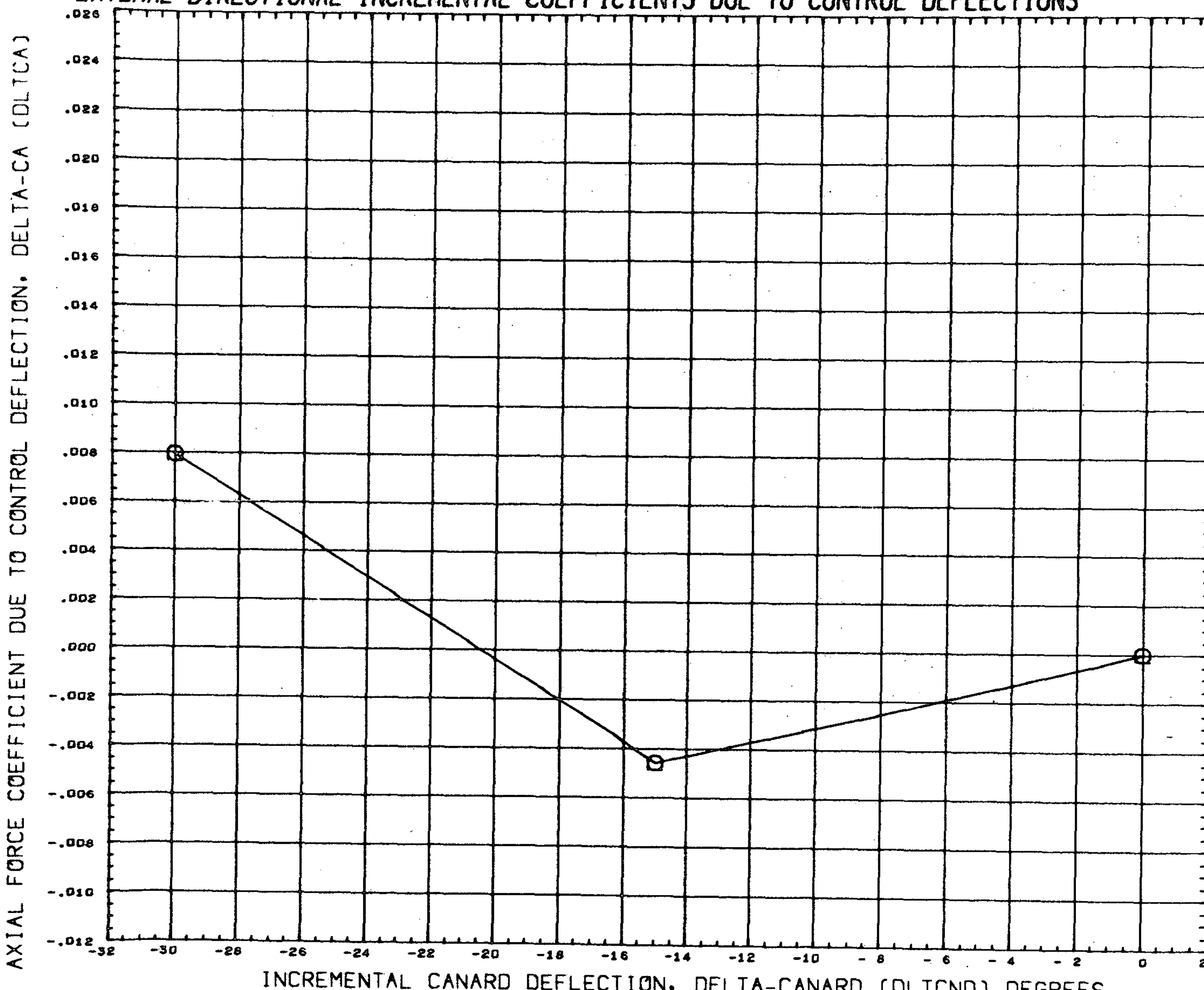
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALFHA	PARAMETRIC VALUES				DATA SOURCE			
						DATASET	DLTCND	DATASET	DLTCND
☐	20.000	MACH	0.900	BETA	0.000	T35CAB	- 30.000	T35CAA	- 15.000
		ELEVON	0.000	RUDDER	0.000	T35EAO	0.000		

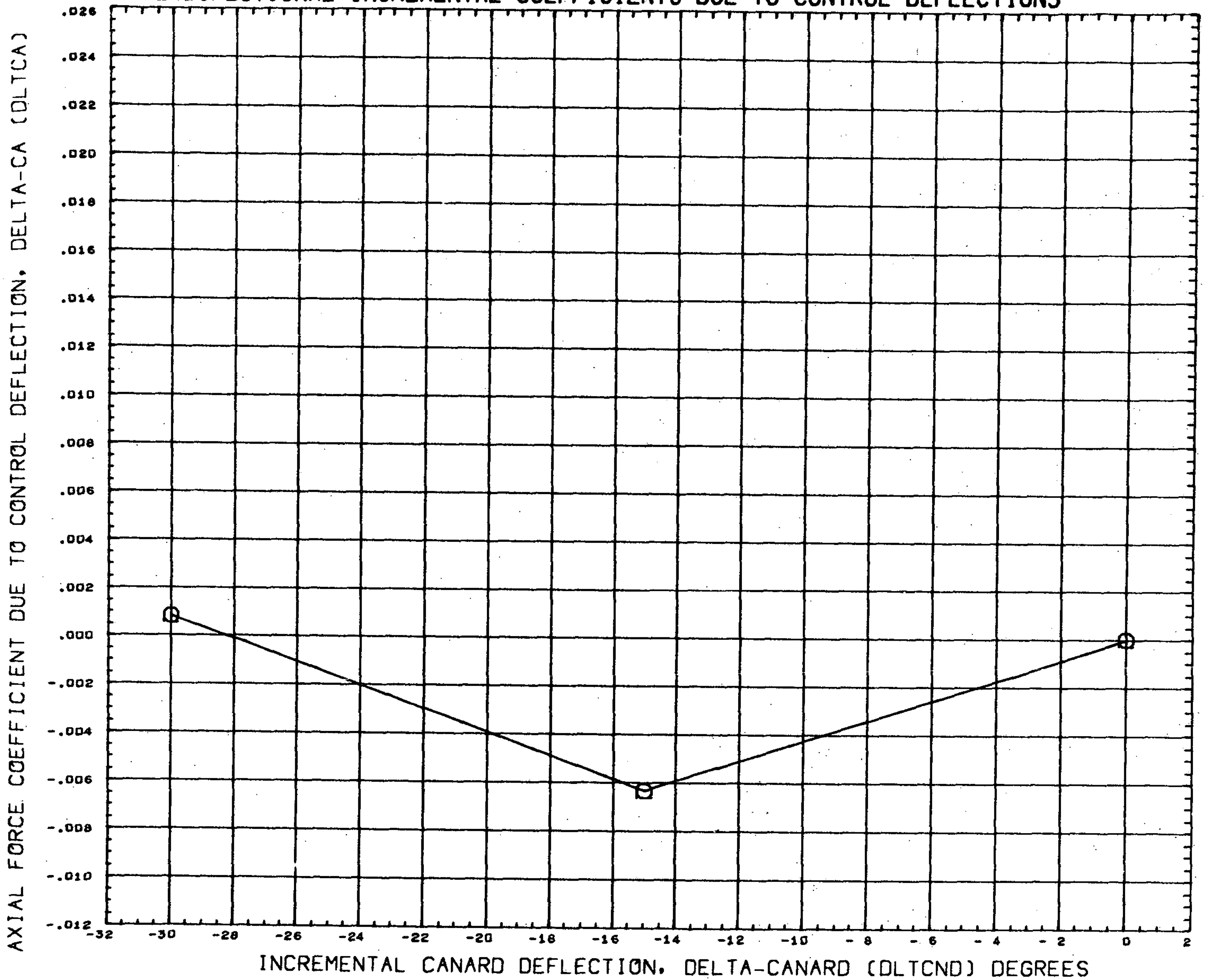
REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

M-493GD/C B25W19C8V10.ELEVON INCREMENTS(EAA-EA0) (T35CAB) 22 SEP 71 PAGE 437

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALFHA		PARAMETRIC VALUES		
O	23.000	MACH	0.900	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

DATA SOURCE

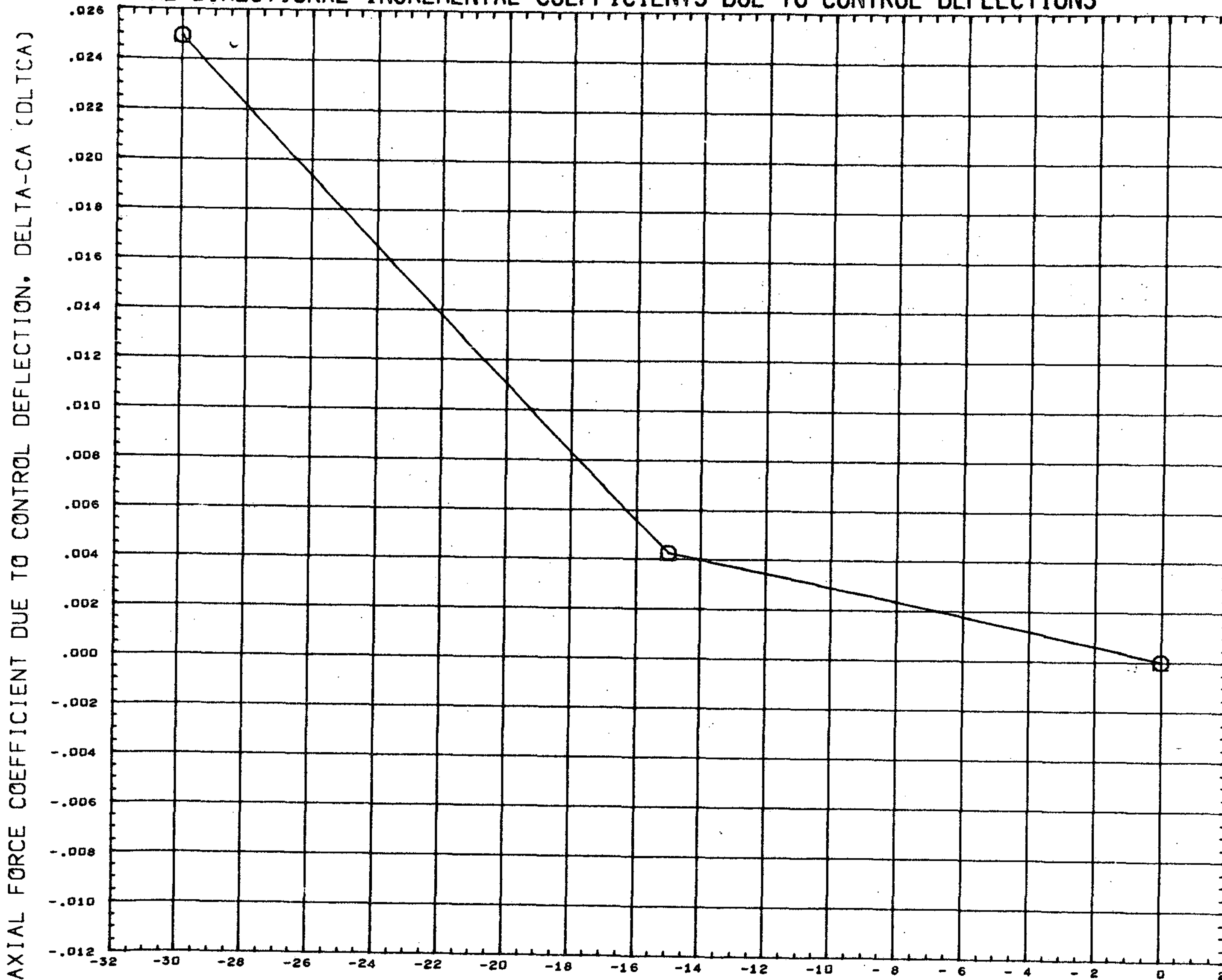
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	5.000	MACH	1.200	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

DATA SOURCE

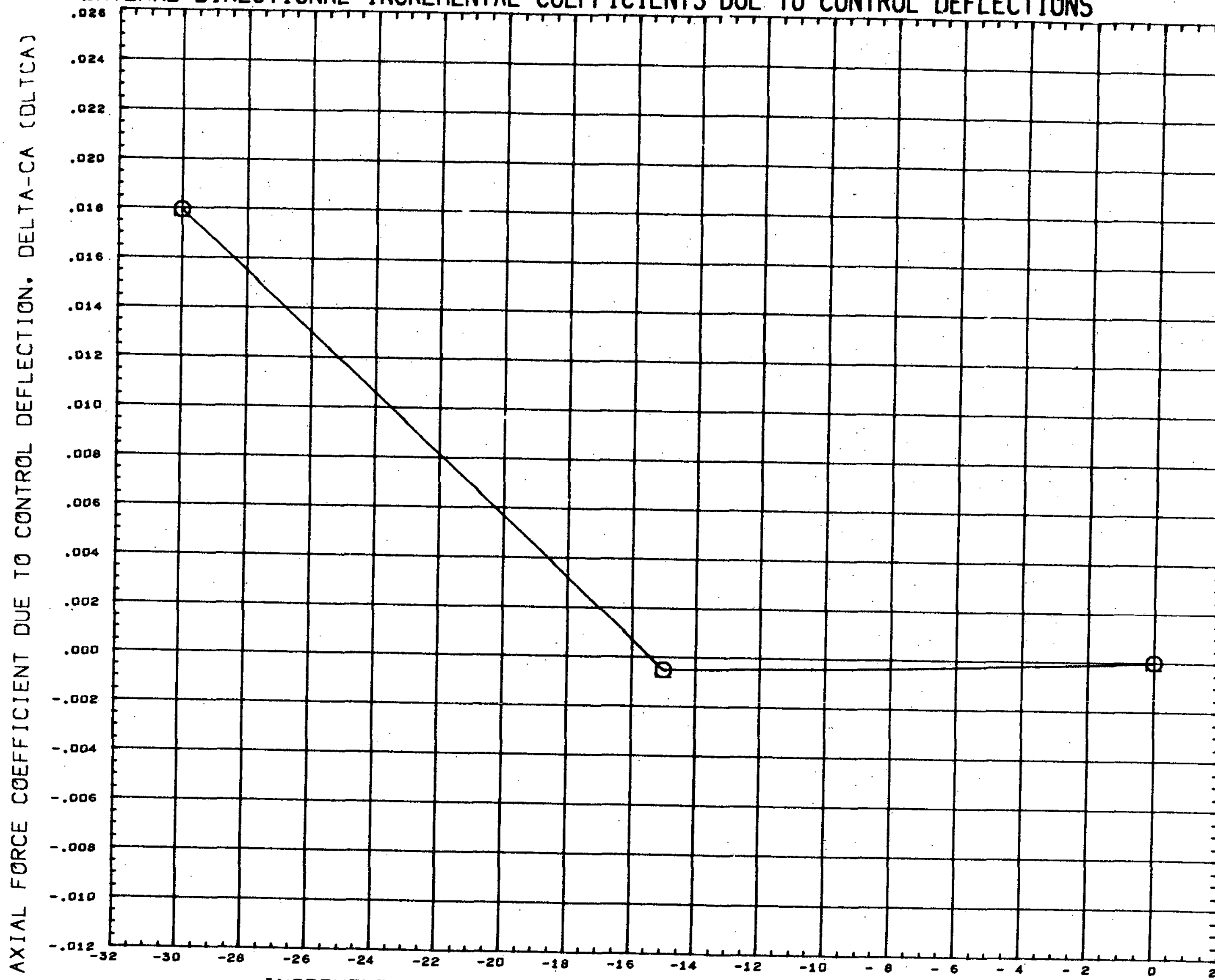
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	10.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
ELEVON	0.000	RUDDER	0.000

DATA SOURCE

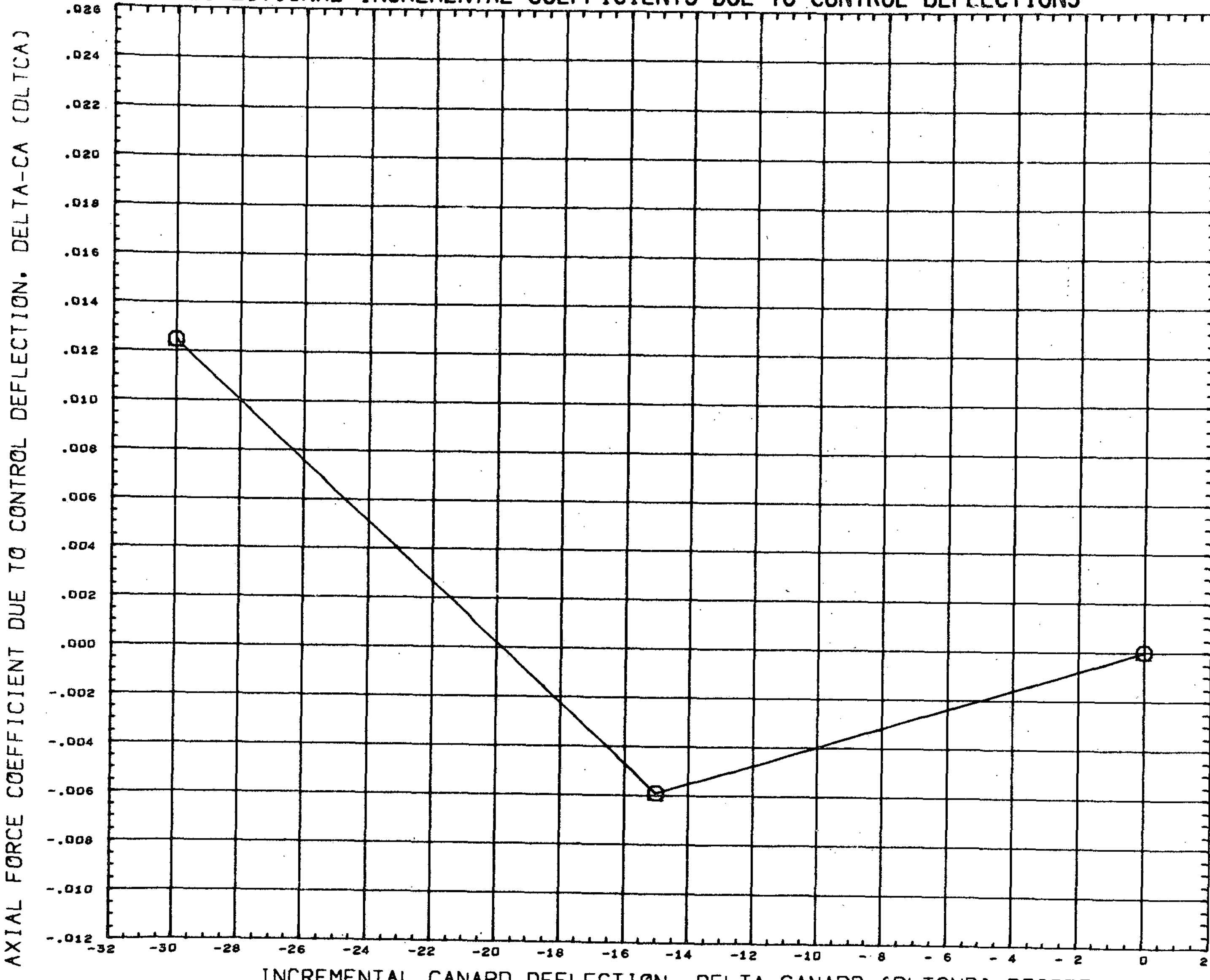
DATASET	DLTCND	DATASET	DLTCND
T35CAB	-30.000	T35CAA	-15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE 1*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	15.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
ELEVON	0.000	RUDDER	0.000

DATA SOURCE

DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

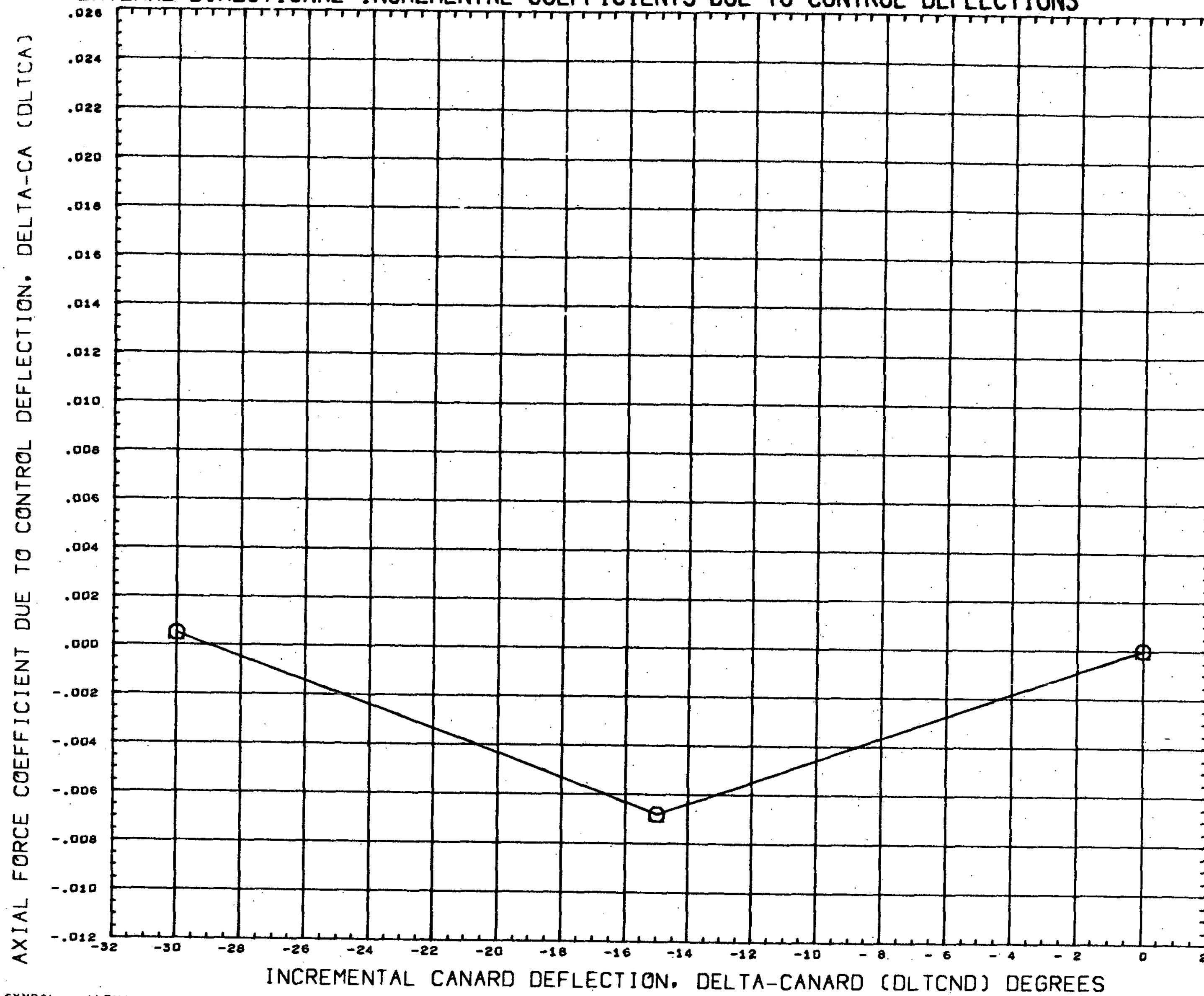
REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

M-493GD/C B25W19C8V10,ELEVON INCREMENTS(EAA-EAO) (T35CAB) 22 SEP 71 PAGE 441

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	20.000	MACH	1.200	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

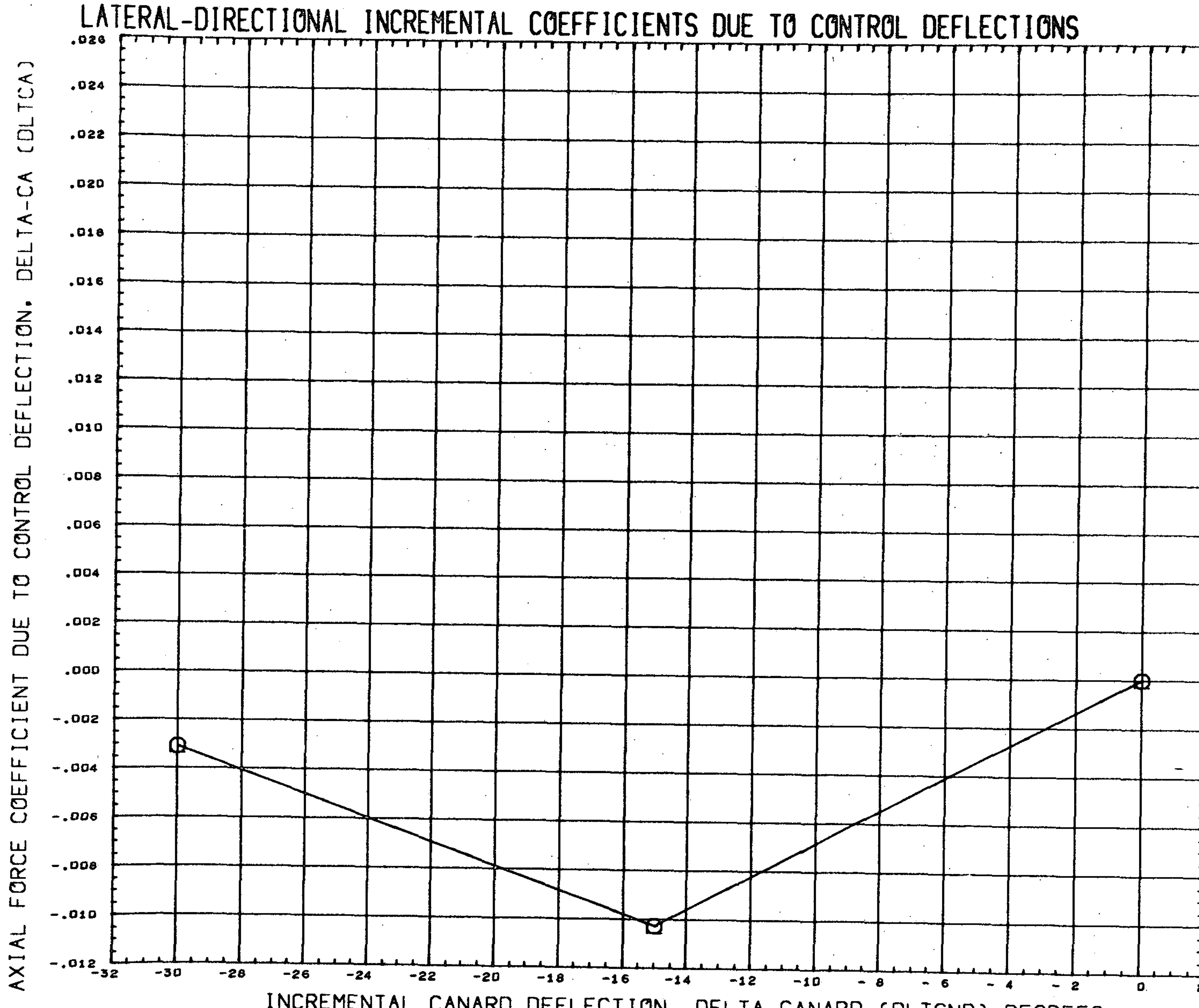
DATA SOURCE

DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EA0	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	23.000	MACH	1.200	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

DATA SOURCE

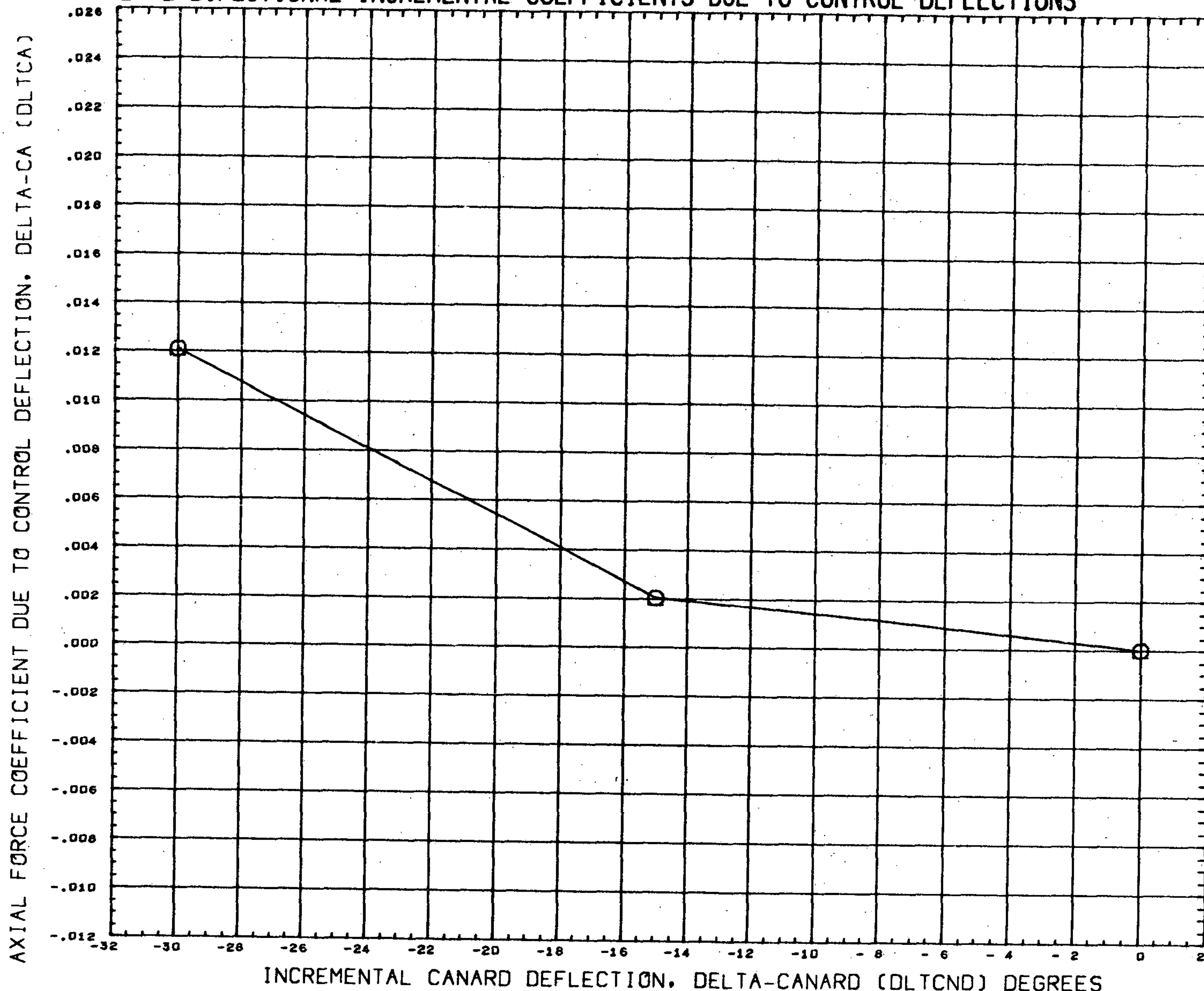
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	5.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
ELEVON	0.000	RUDDER	0.000

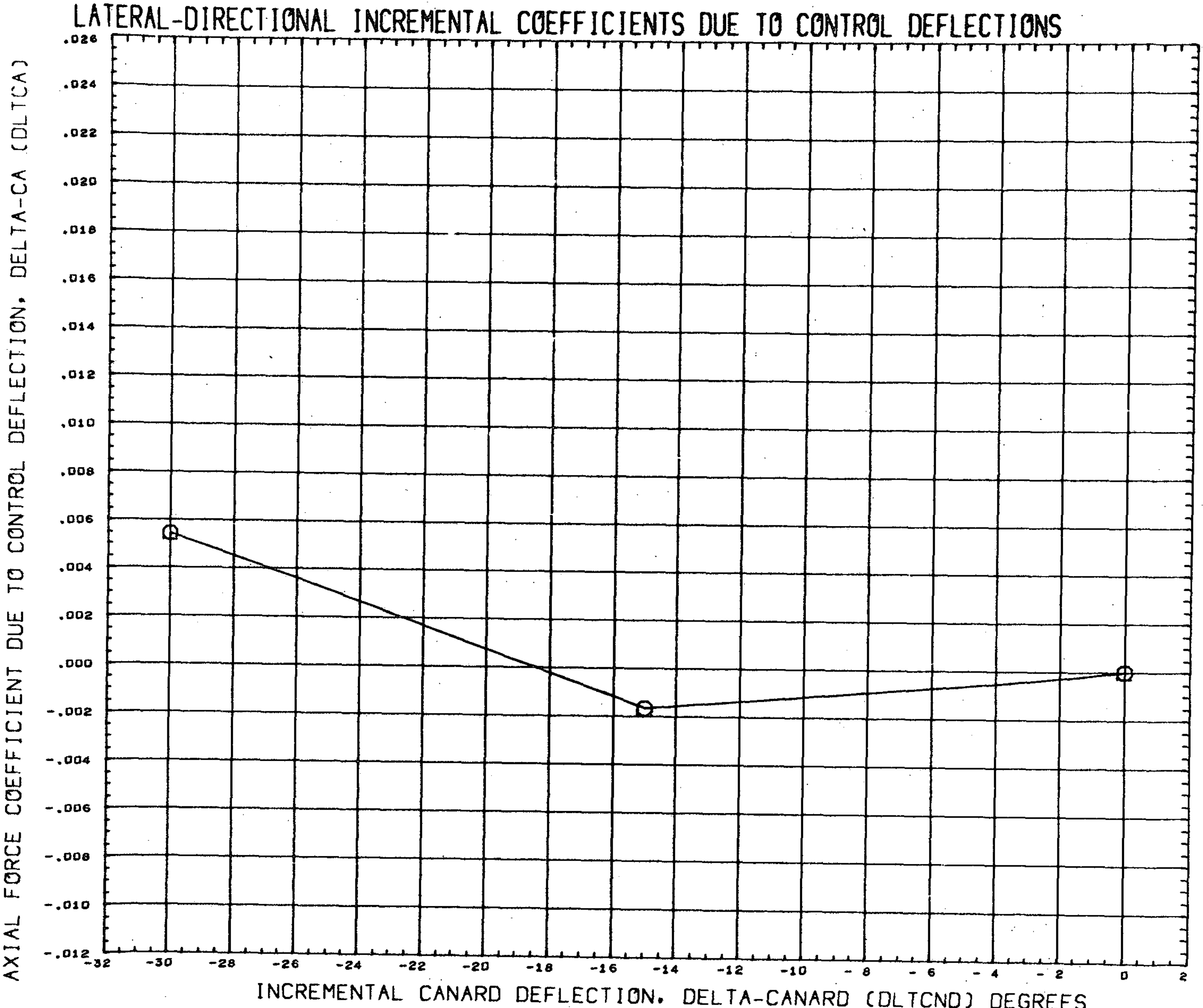
DATA SOURCE

DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	10.000	MACH	2.000	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

DATA SOURCE

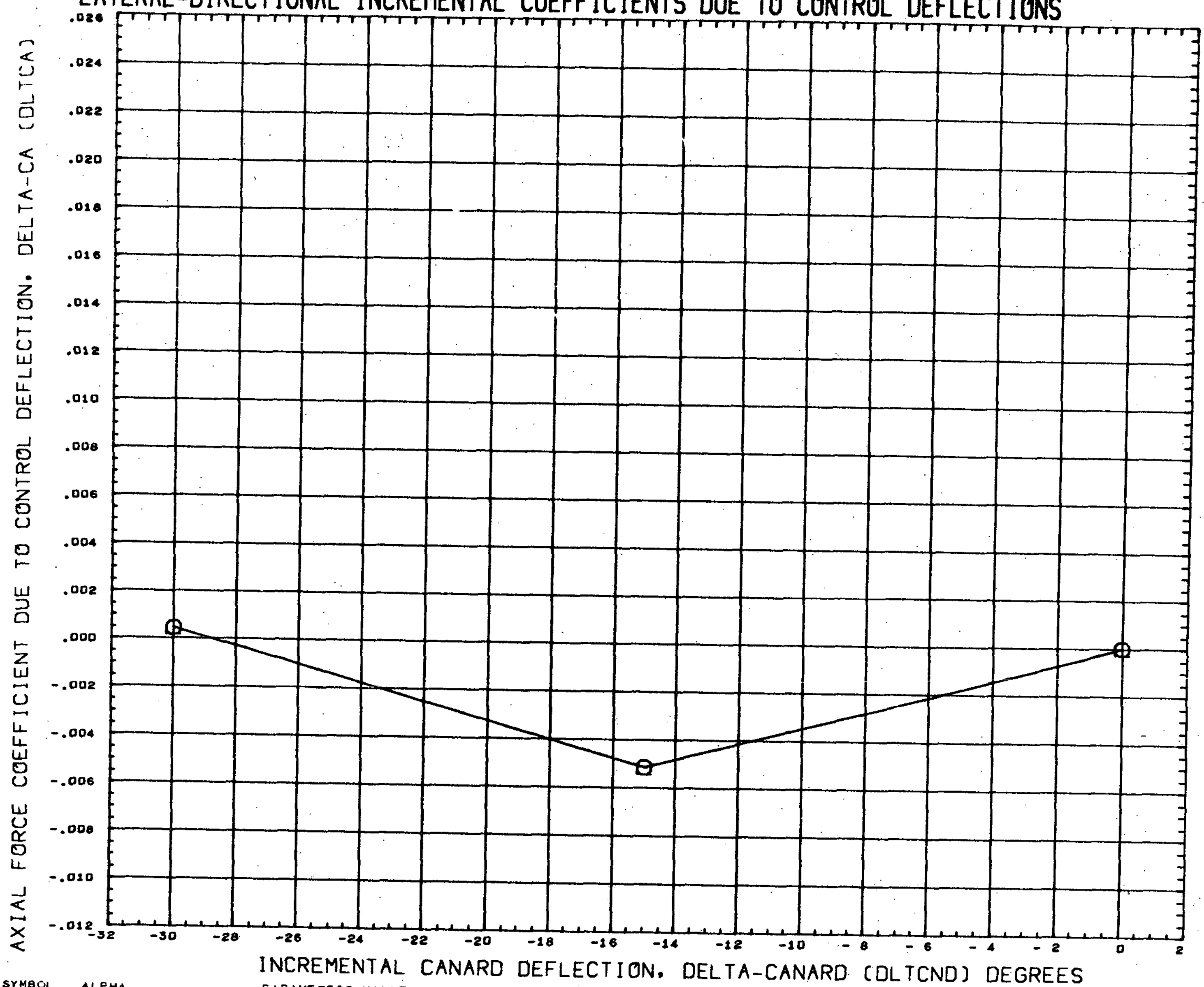
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	15.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
ELEVON	0.000	RUDDER	0.000

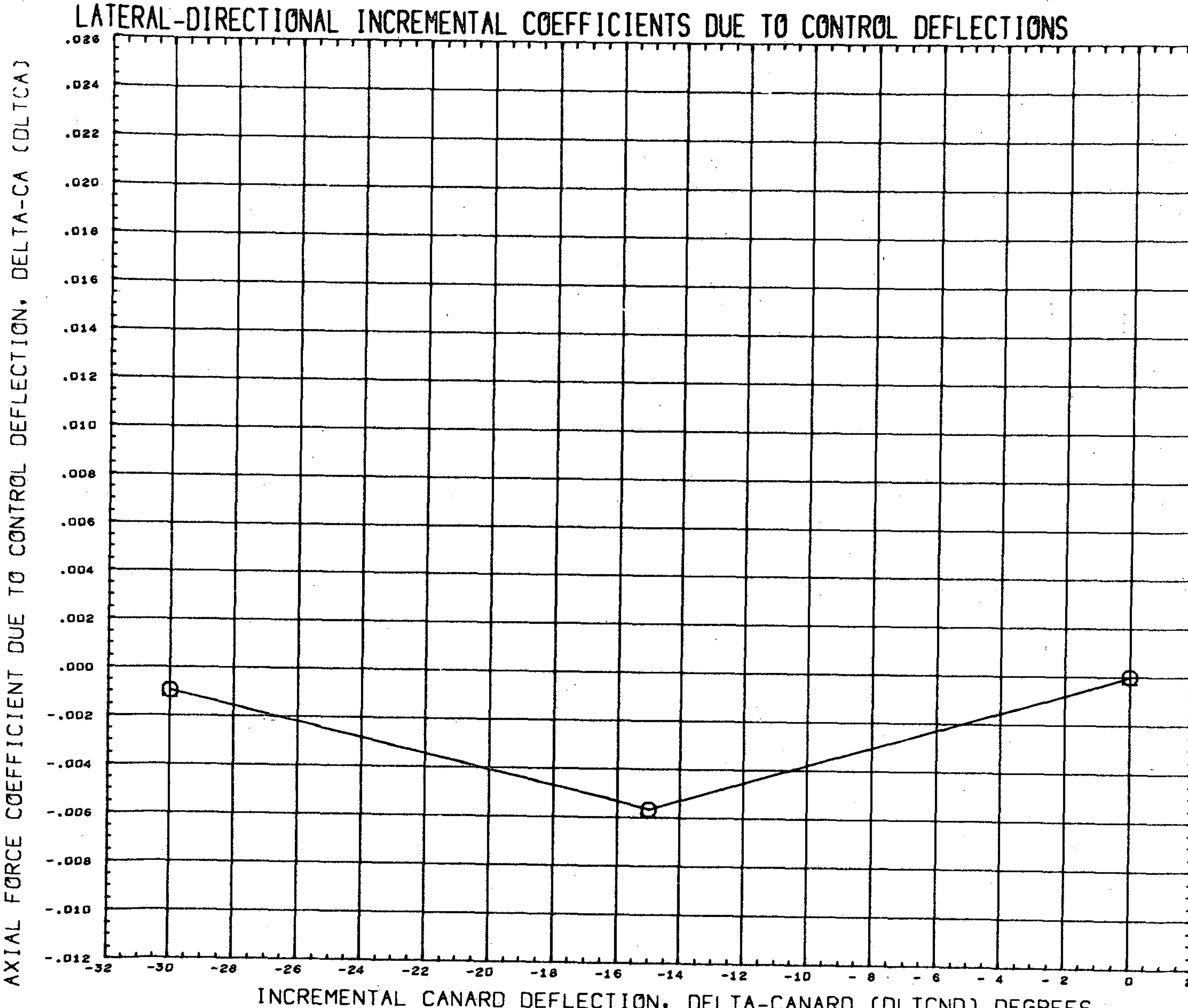
DATA SOURCE

DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C



SYMBOL	ALFHA	PARAMETRIC VALUES			
O	20.000	MACH	2.000	BETA	0.000
		ELEVON	0.000	RUDDER	0.000

DATA SOURCE

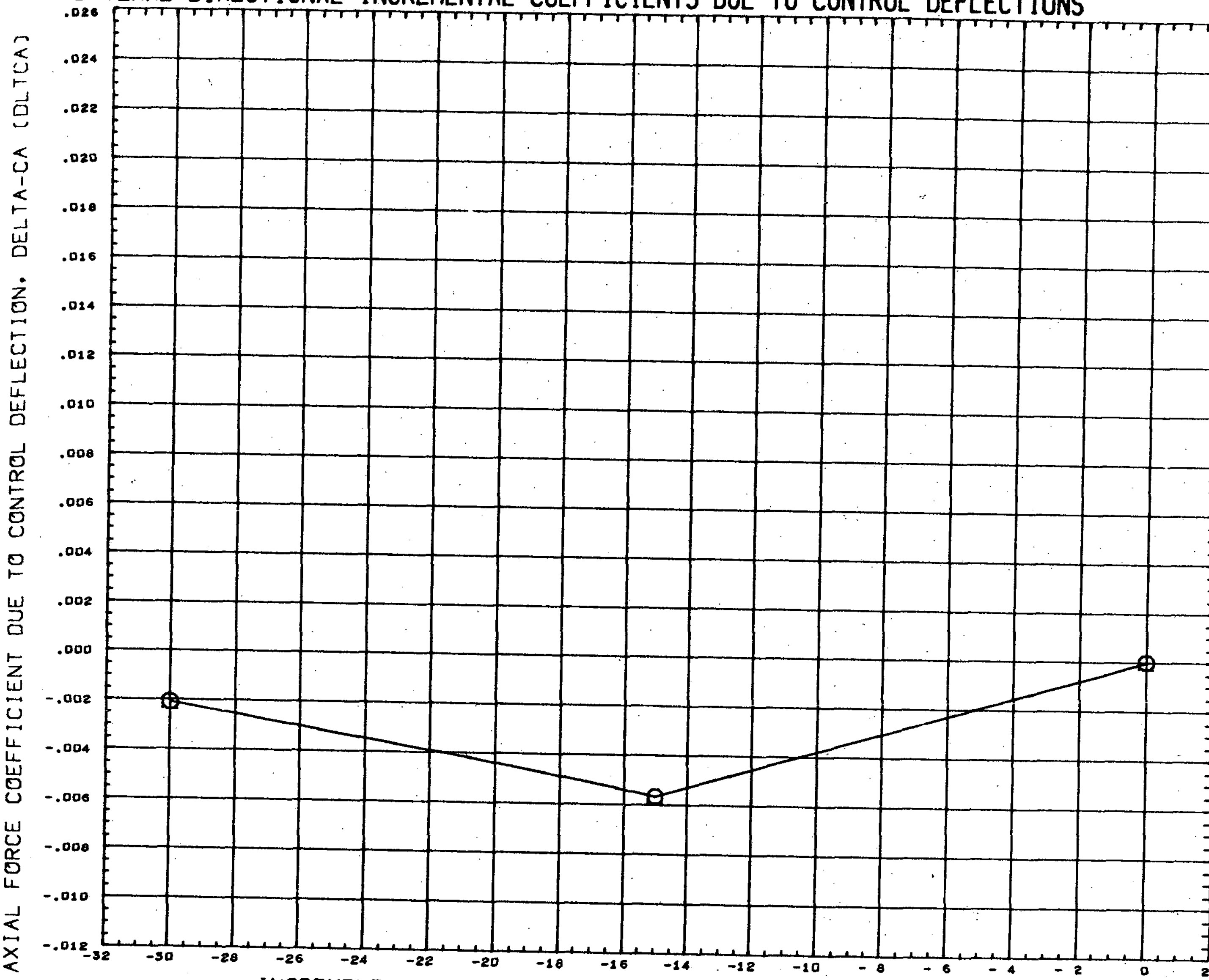
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL INCREMENTAL COEFFICIENTS DUE TO CONTROL DEFLECTIONS



SYMBOL	ALPHA
O	23.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
ELEVON	0.000	RUDDER	0.000

DATA SOURCE

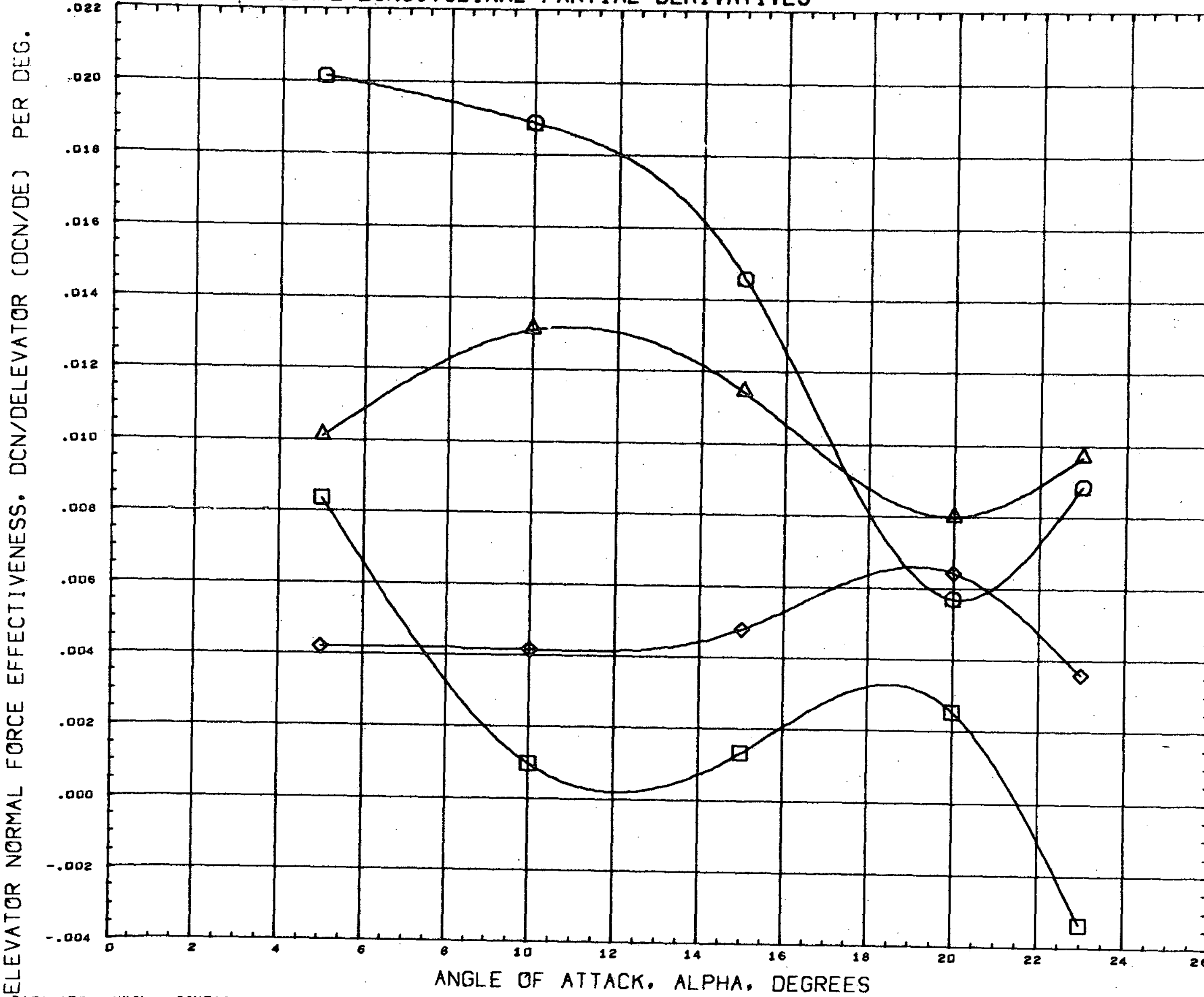
DATASET	DLTCND	DATASET	DLTCND
T35CAB	- 30.000	T35CAA	- 15.000
T35EAO	0.000		

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE I*C

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES

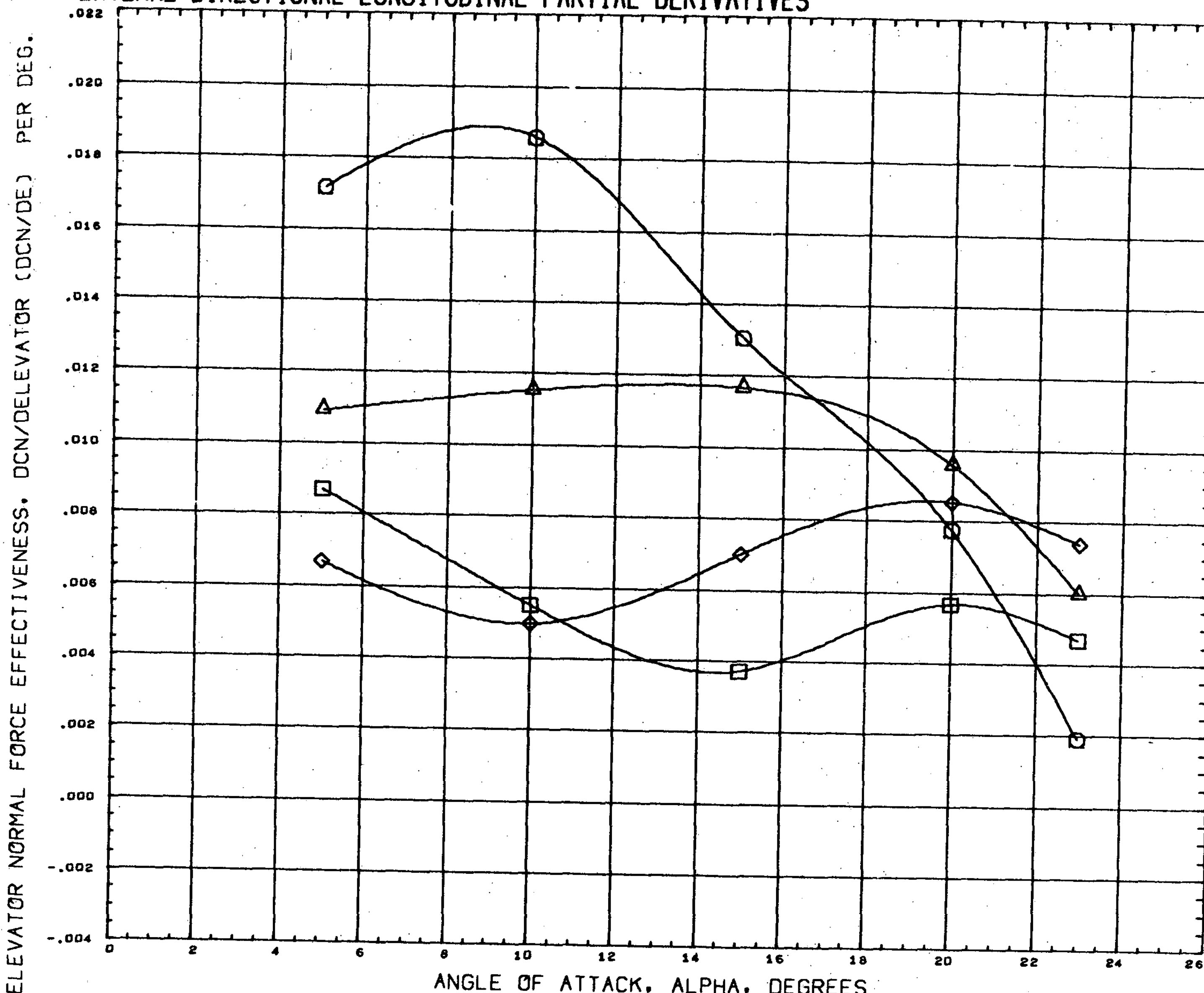


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(X35EAA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	10.000	0.000	0.000
(X35EAO)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	0.000	0.000	0.000
(X35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	-10.000	0.000	0.000
(X35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.900

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES

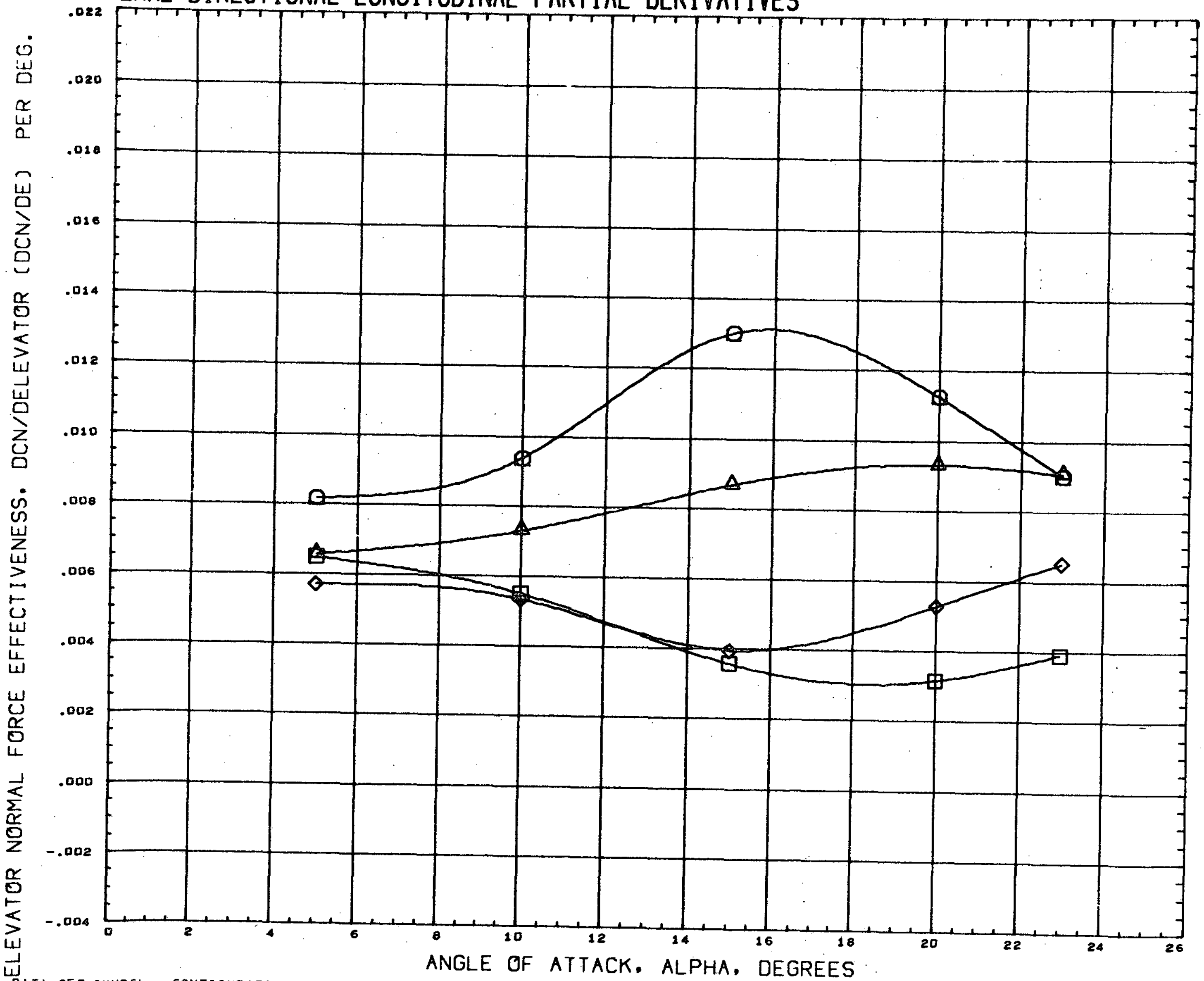


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(X35EAA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	10.000	0.000	0.000
(X35EAO)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	0.000	0.000	0.000
(X35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	-10.000	0.000	0.000
(X35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES



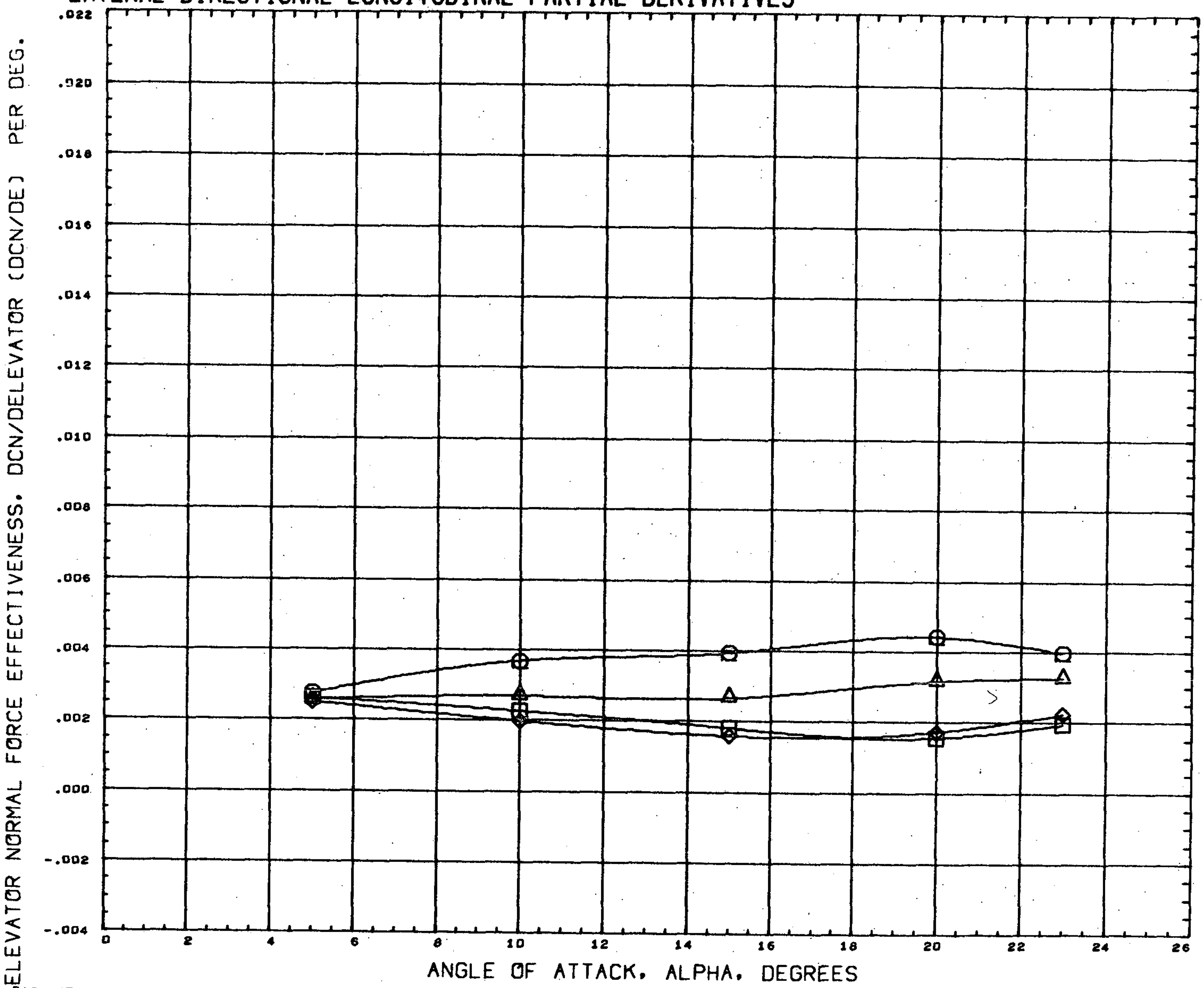
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(X35EAA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	10.000	0.000	0.000
(X35EAO)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	0.000	0.000	0.000
(X35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-10.000	0.000	0.000
(X35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	

MACH 1.200

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES

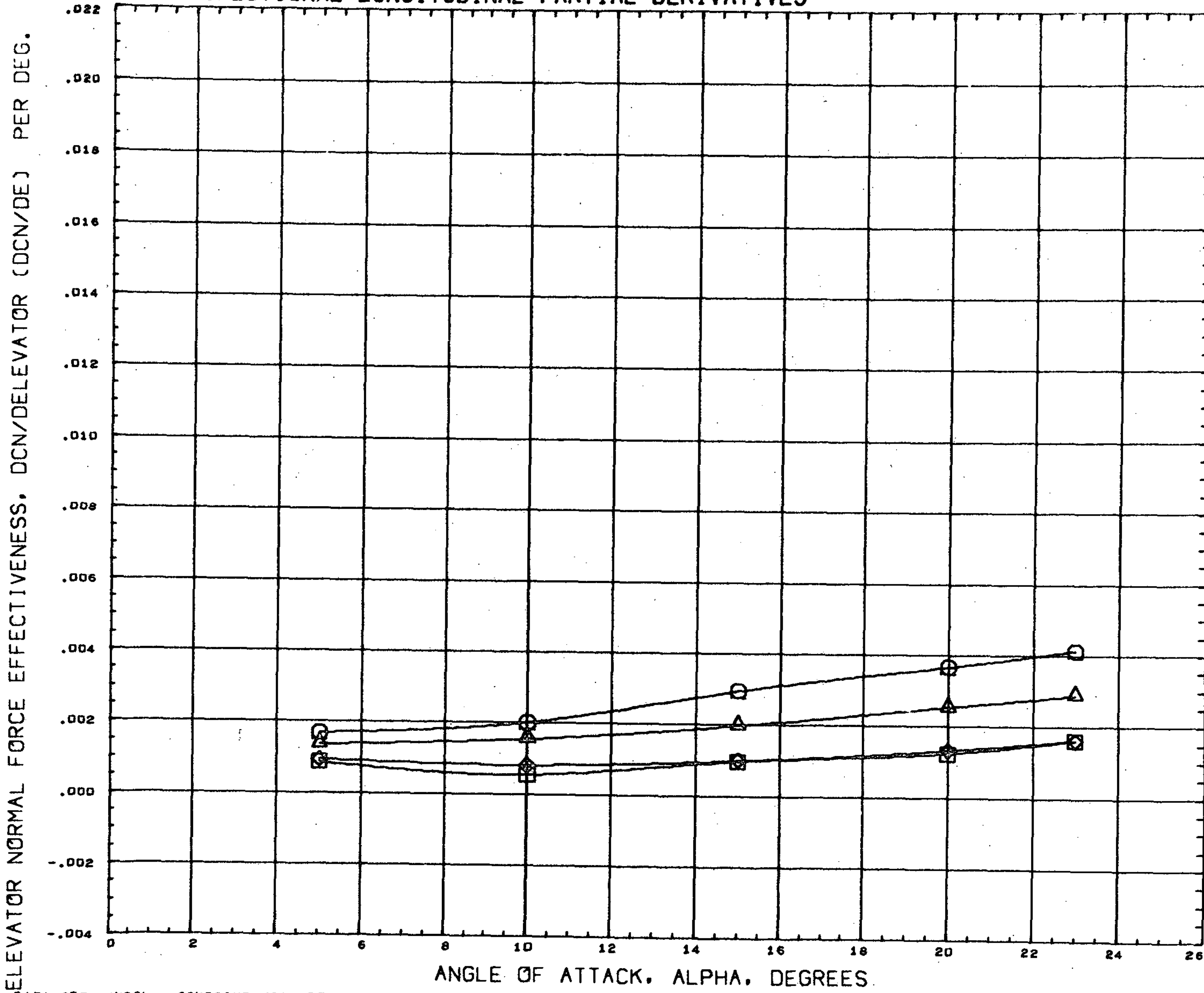


DATA SET SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(X35EAA) ○	MSFC TWT-493 GD/C B25W19C8V10	E=-20	C=0	R=0	0.000	10.000	0.000	0.000
(X35EAO) △	MSFC TWT-493 GD/C B25W19C8V10	E=-20	C=0	R=0	0.000	0.000	0.000	0.000
(X35EAC) ◇	MSFC TWT-493 GD/C B25W19C8V10	E=-20	C=0	R=0	0.000	-10.000	0.000	0.000
(X35EAB) □	MSFC TWT-493 GD/C B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 2.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES



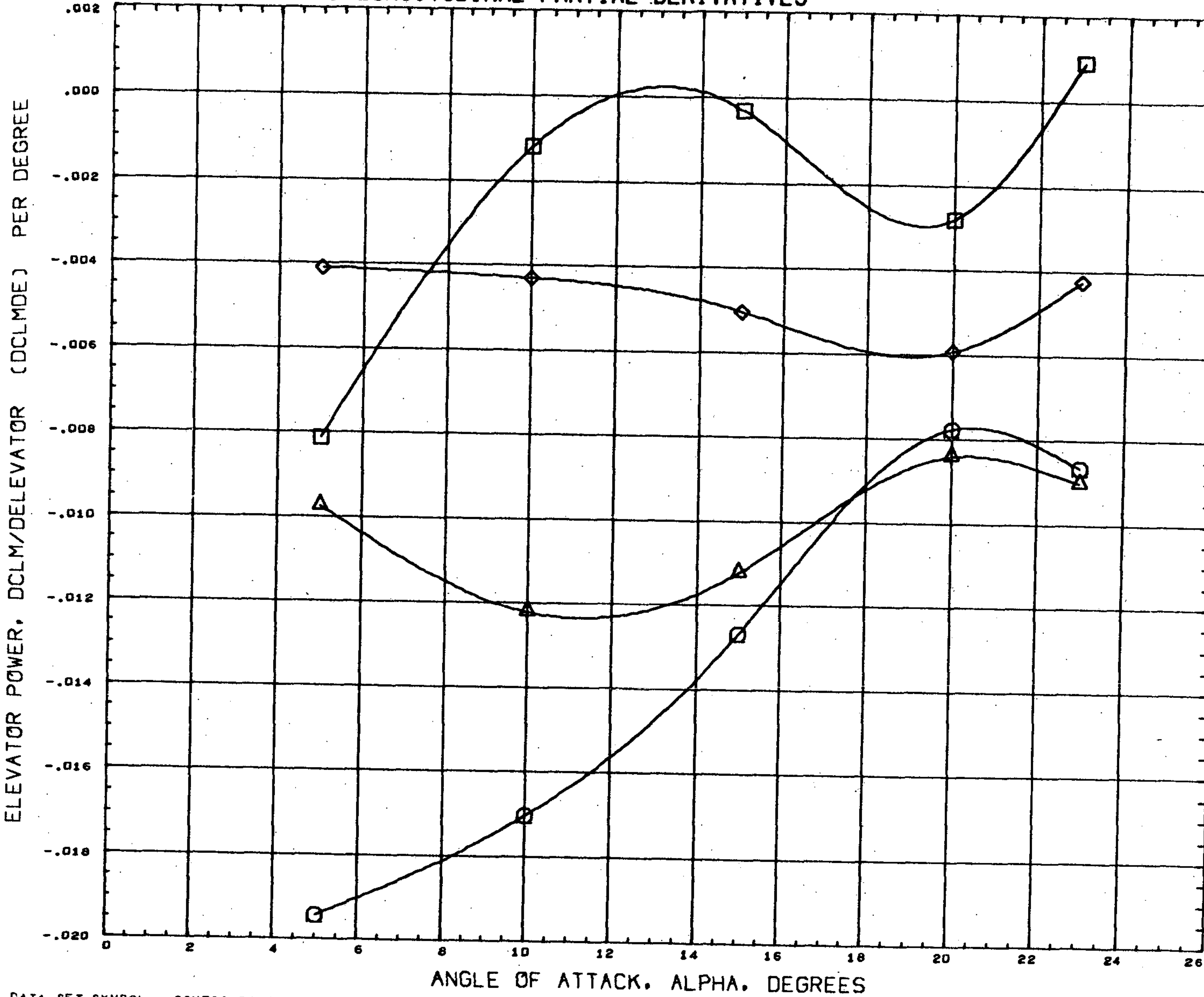
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(X35EAA)	○	MSFC TWT-493 GD/C B25W19C8V10 E=-20 C=0 R=0	0.000	10.000	0.000	0.000
(X35EAO)	△	MSFC TWT-493 GD/C B25W19C8V10 E=-20 C=0 R=0	0.000	0.000	0.000	0.000
(X35EAC)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=-20 C=0 R=0	0.000	-10.000	0.000	0.000
(X35EAB)	□	MSFC TWT-493 GD/C B25W19C8V10 E=-20 C=0 R=0	0.000	-20.000	0.000	0.000

MACH 3.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES



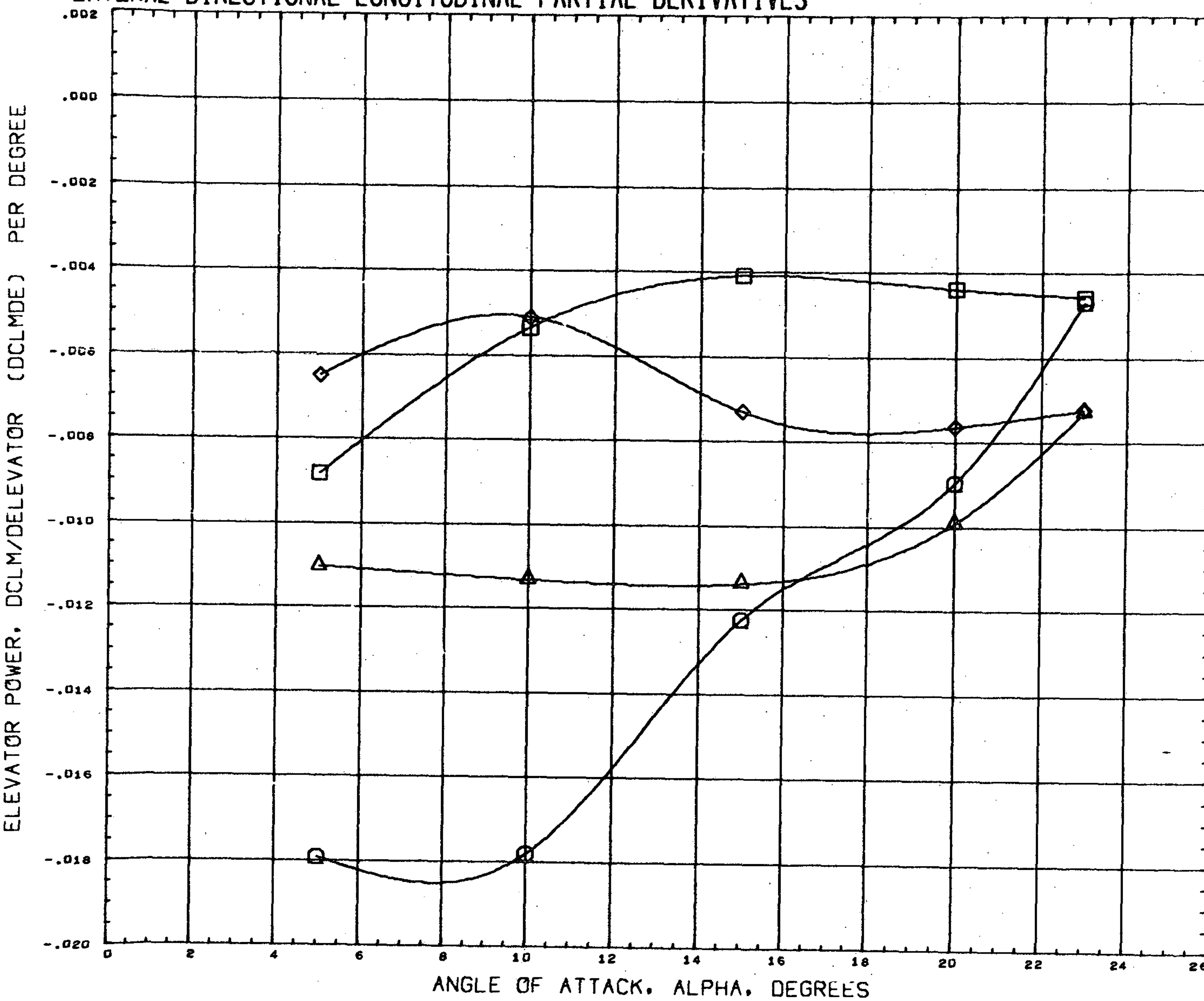
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(X35EAA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	10.000	0.000	0.000
(X35EAO)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	0.000	0.000	0.000
(X35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	-10.000	0.000	0.000
(X35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.900

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES

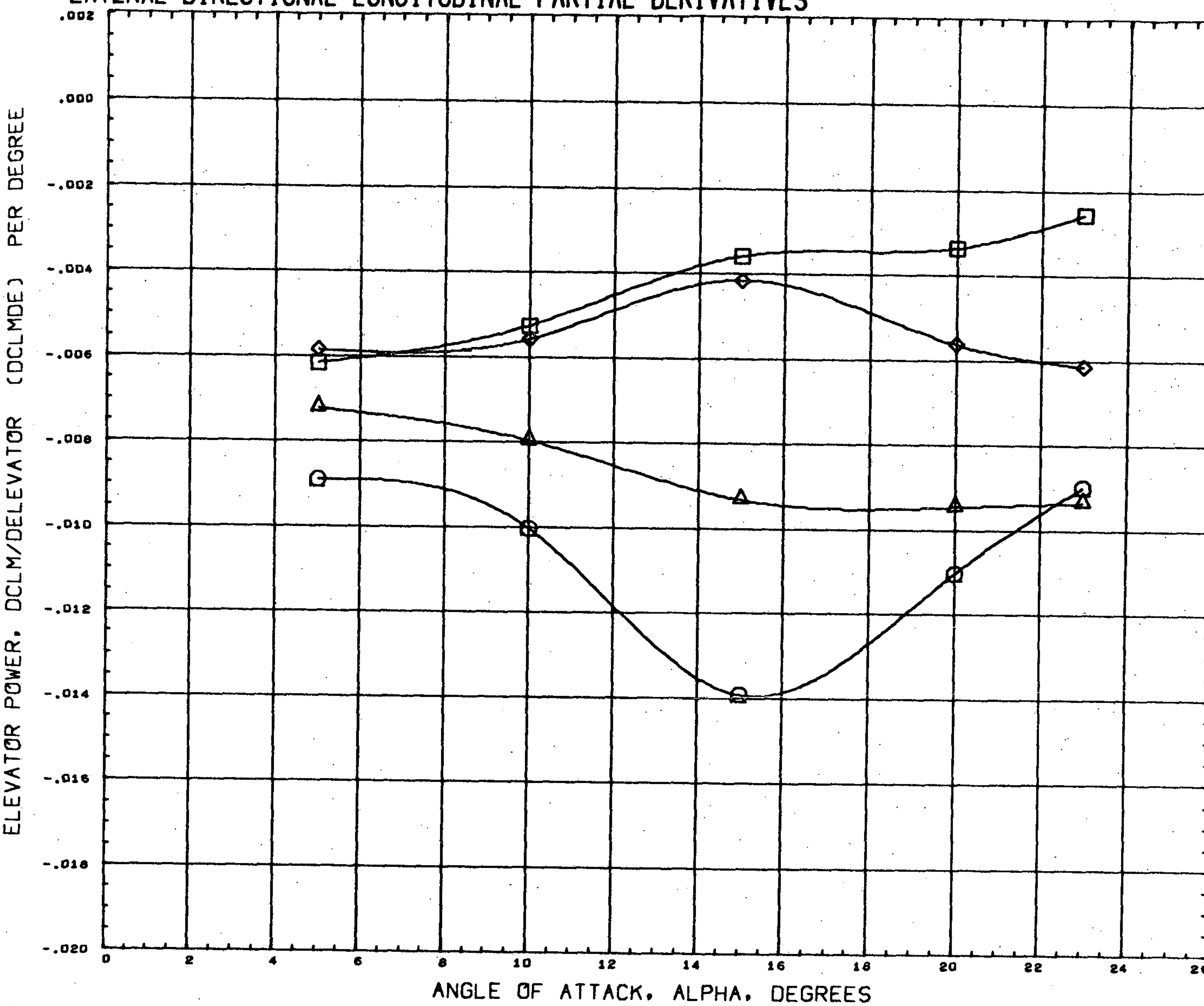


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(X35EAA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	10.000	0.000	0.000
(X35EAO)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	0.000	0.000	0.000
(X35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-10.000	0.000	0.000
(X35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES

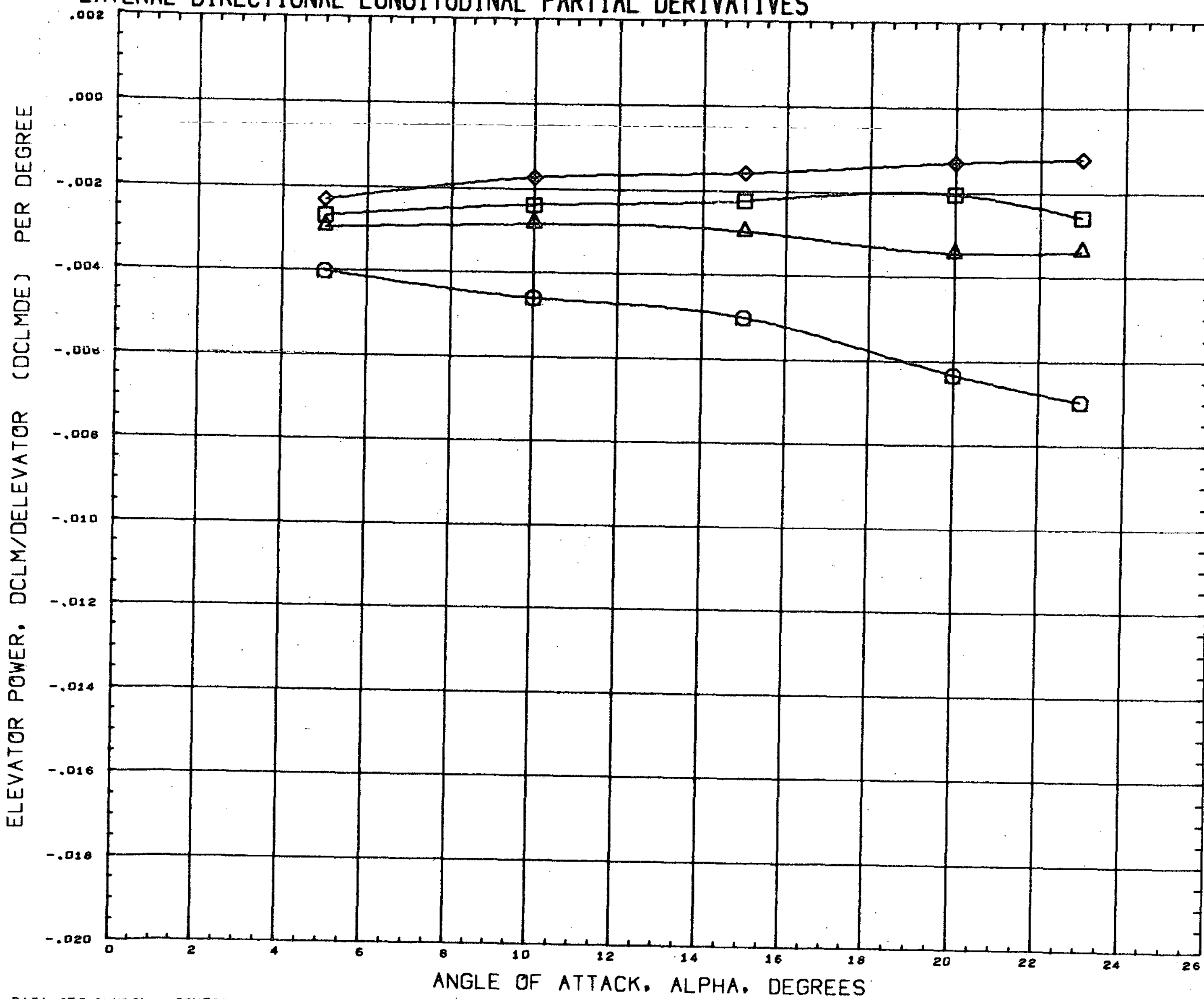


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(X35EAA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	10.000	0.000	0.000
(X35EAO)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	0.000	0.000	0.000
(X35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-10.000	0.000	0.000
(X35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.200

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES



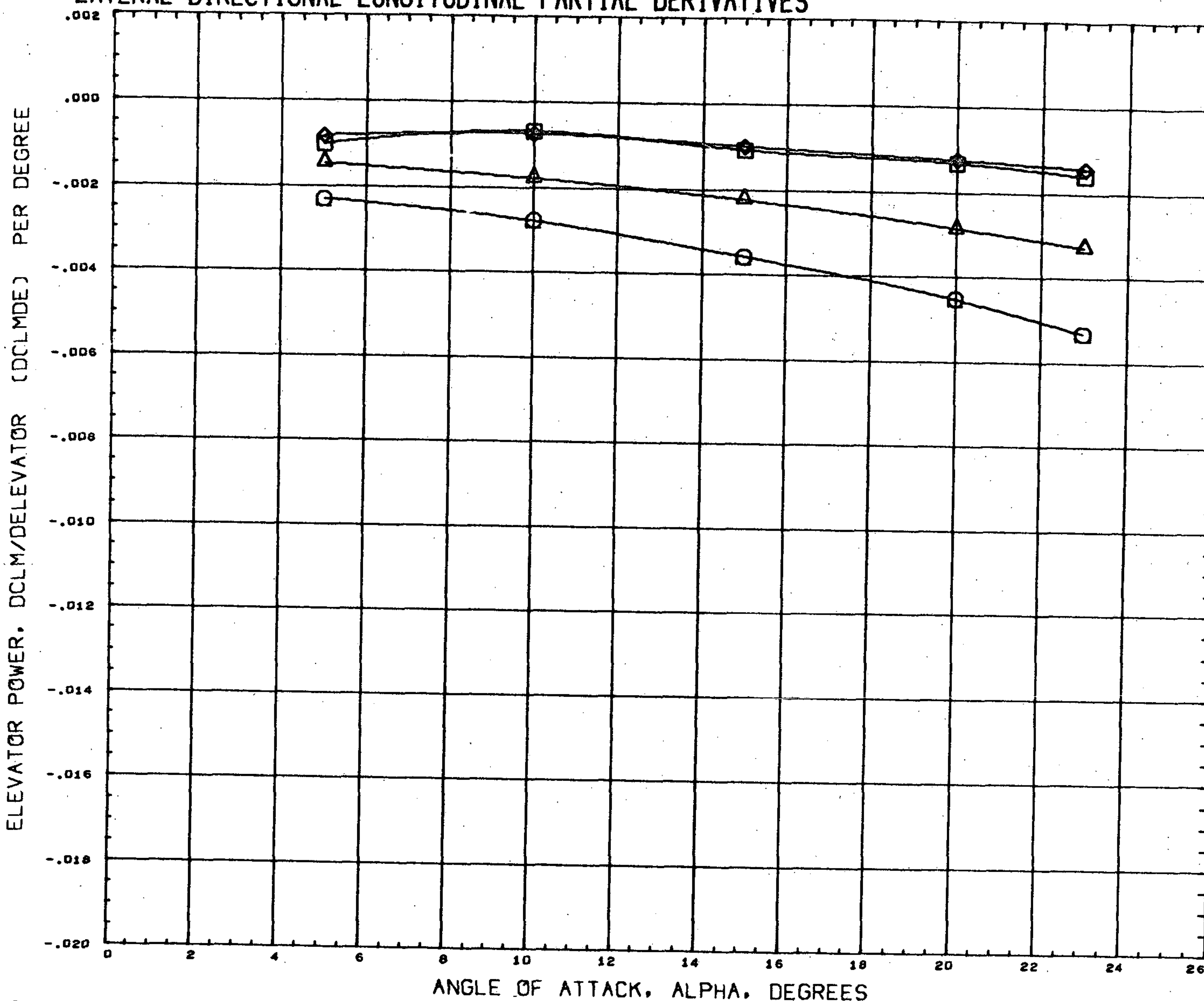
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(X35EAA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	10.000	0.000	0.000
(X35EAO)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	0.000	0.000	0.000
(X35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-10.000	0.000	0.000
(X35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 2.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES



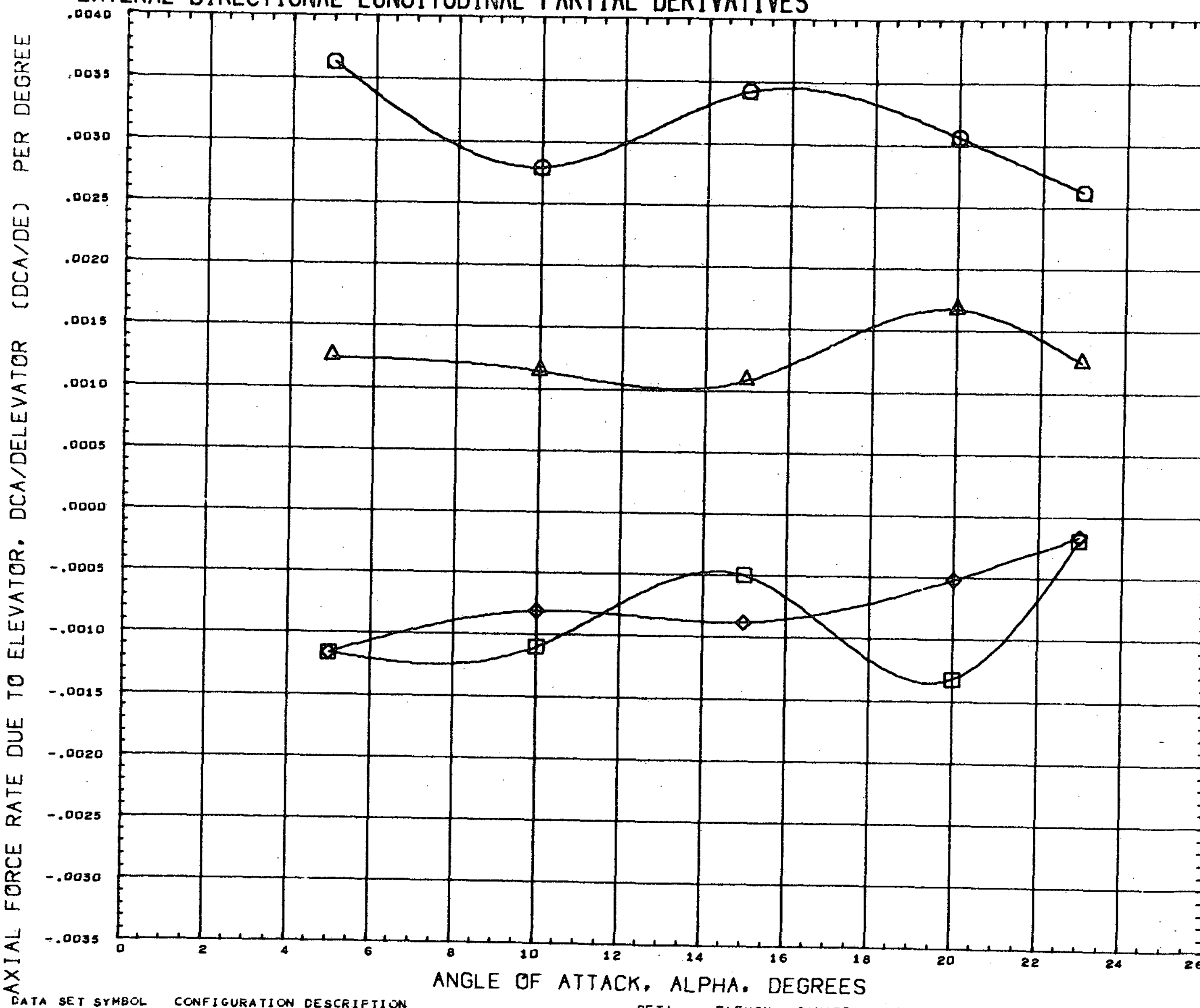
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(X35EAA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	10.000	0.000	0.000
(X35EAO)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	0.000	0.000	0.000
(X35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-10.000	0.000	0.000
(X35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 3.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(X35EAA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	10.000	0.000	0.000
(X35EAO)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	0.000	0.000	0.000
(X35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-10.000	0.000	0.000
(X35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 0.900

REFERENCE INFORMATION

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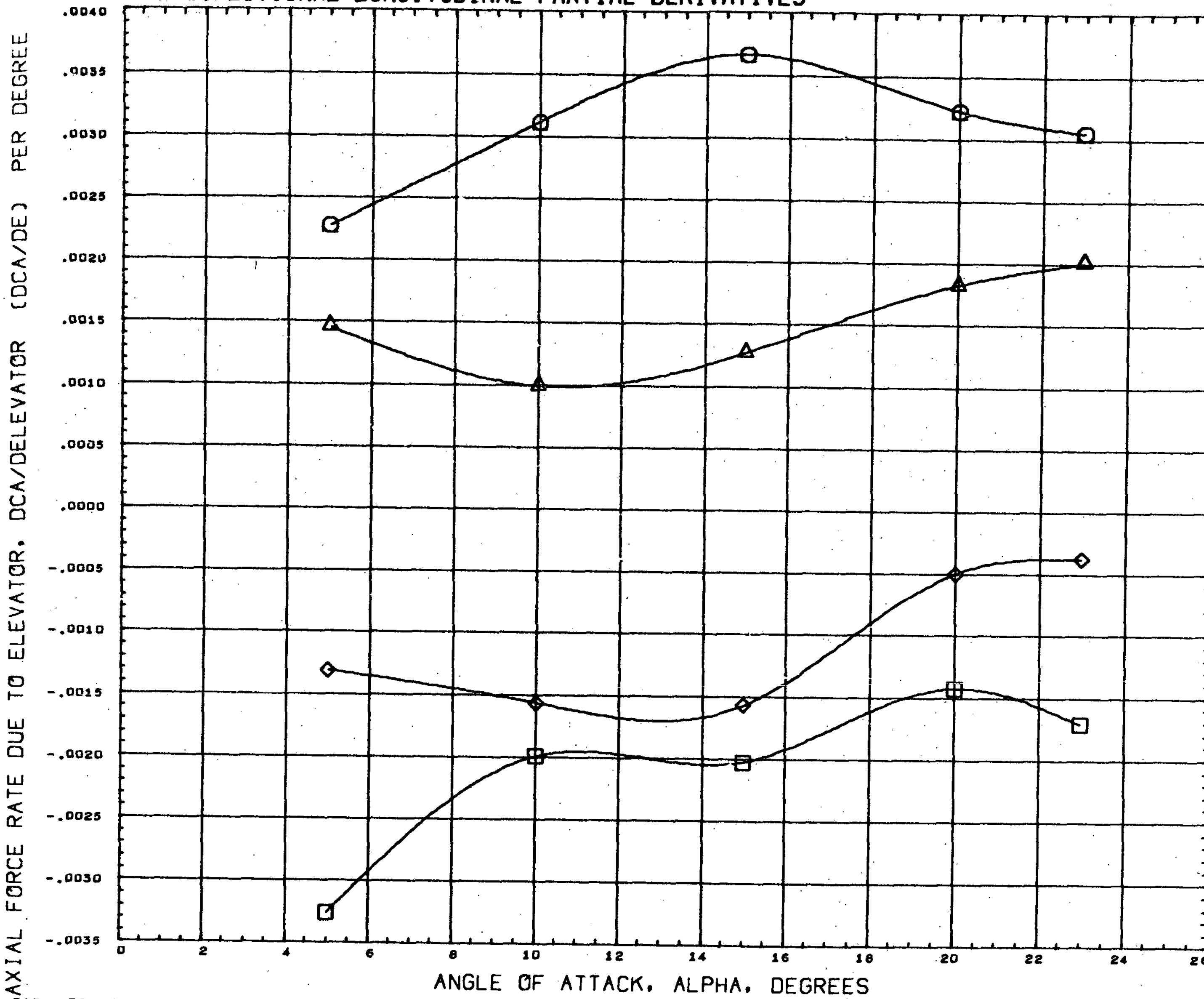
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(X35EAA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	10.000	0.000	0.000
(X35EAO)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	0.000	0.000	0.000
(X35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	-10.000	0.000	0.000
(X35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20 C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
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XMRP	7.2990	IN.
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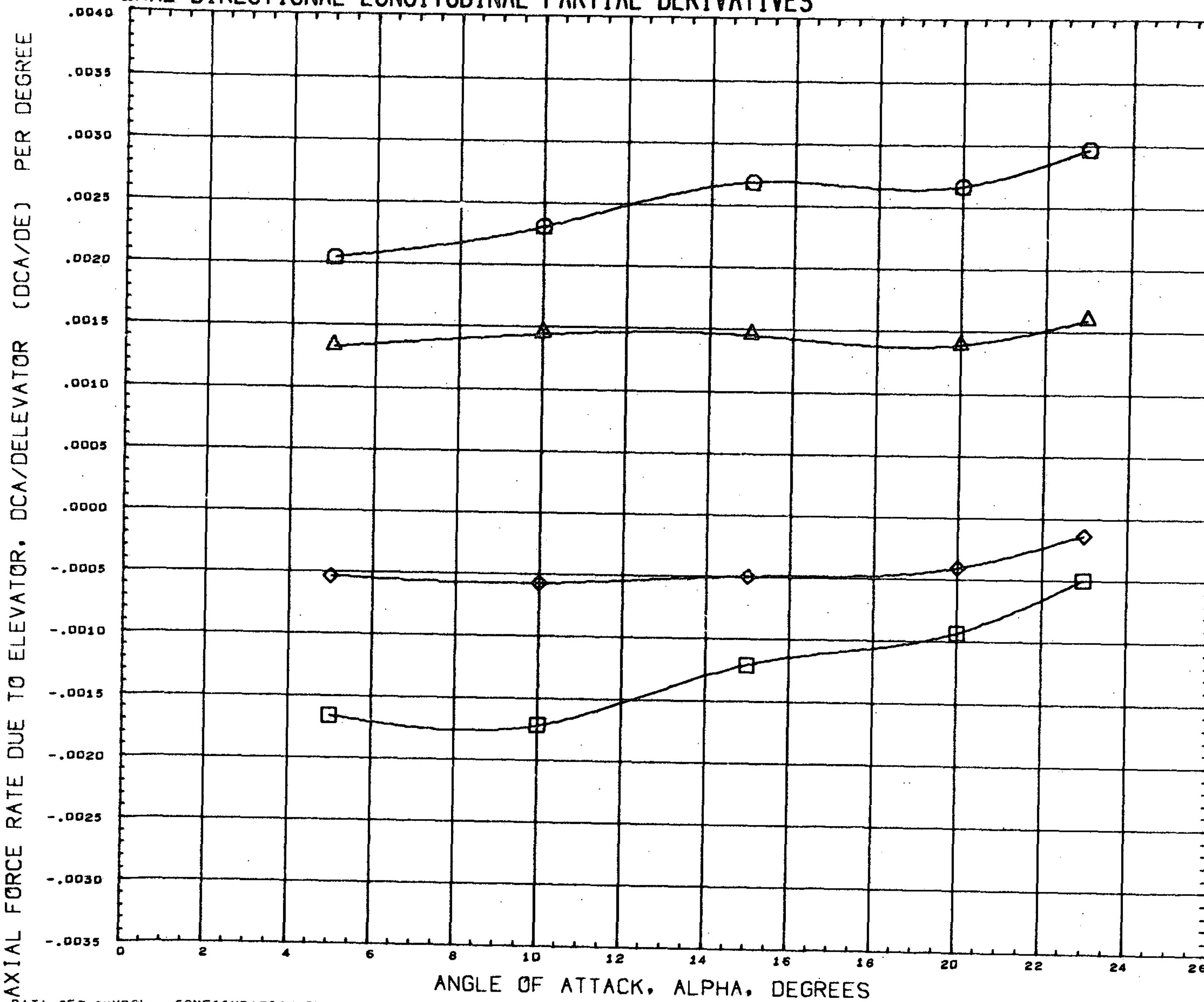
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(X35EAA)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	10.000	0.000	0.000
(X35EAO)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	0.000	0.000	0.000
(X35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-10.000	0.000	0.000
(X35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 1.200

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
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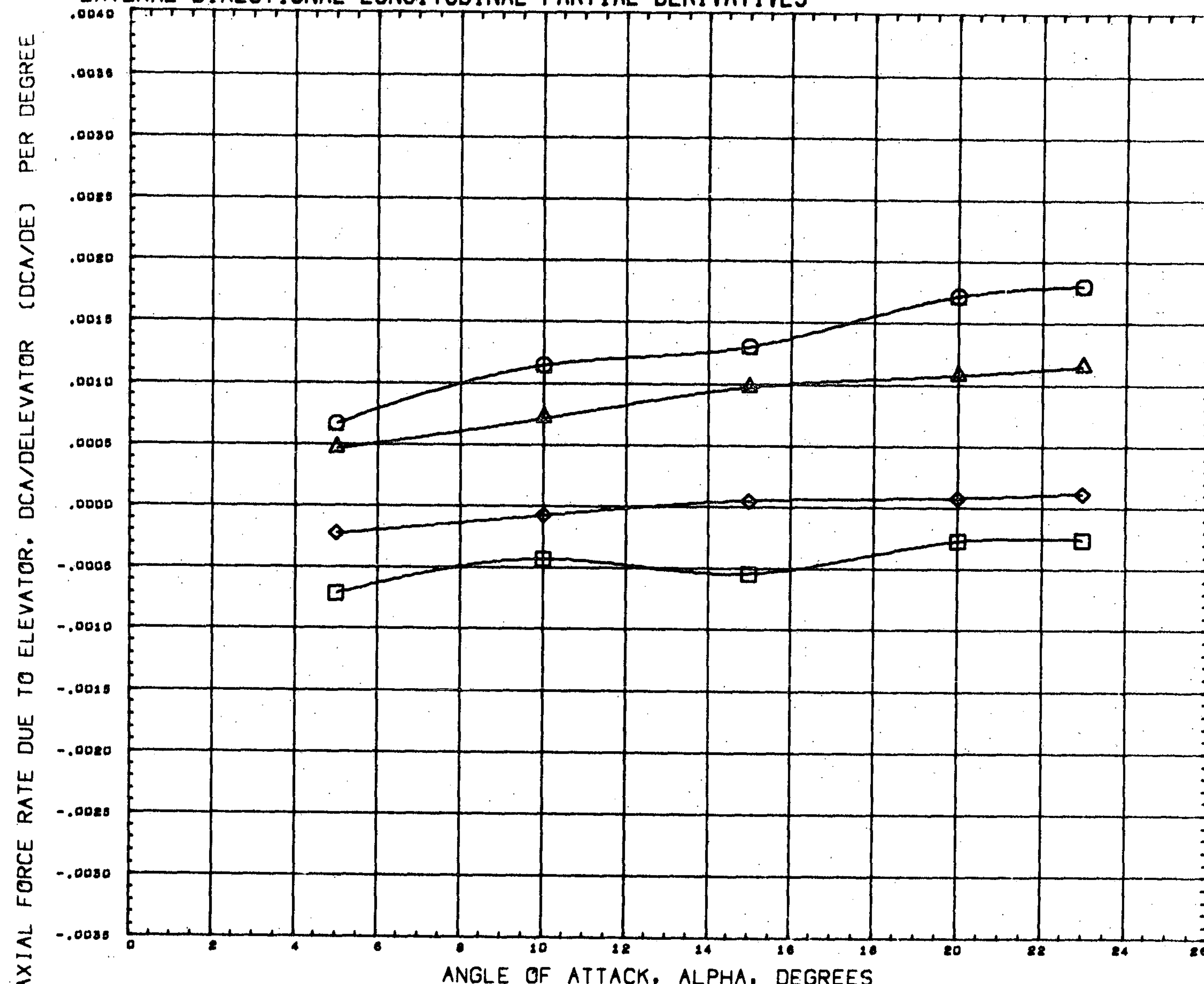
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION						BETA	ELEVON	CANARD	RUDDER
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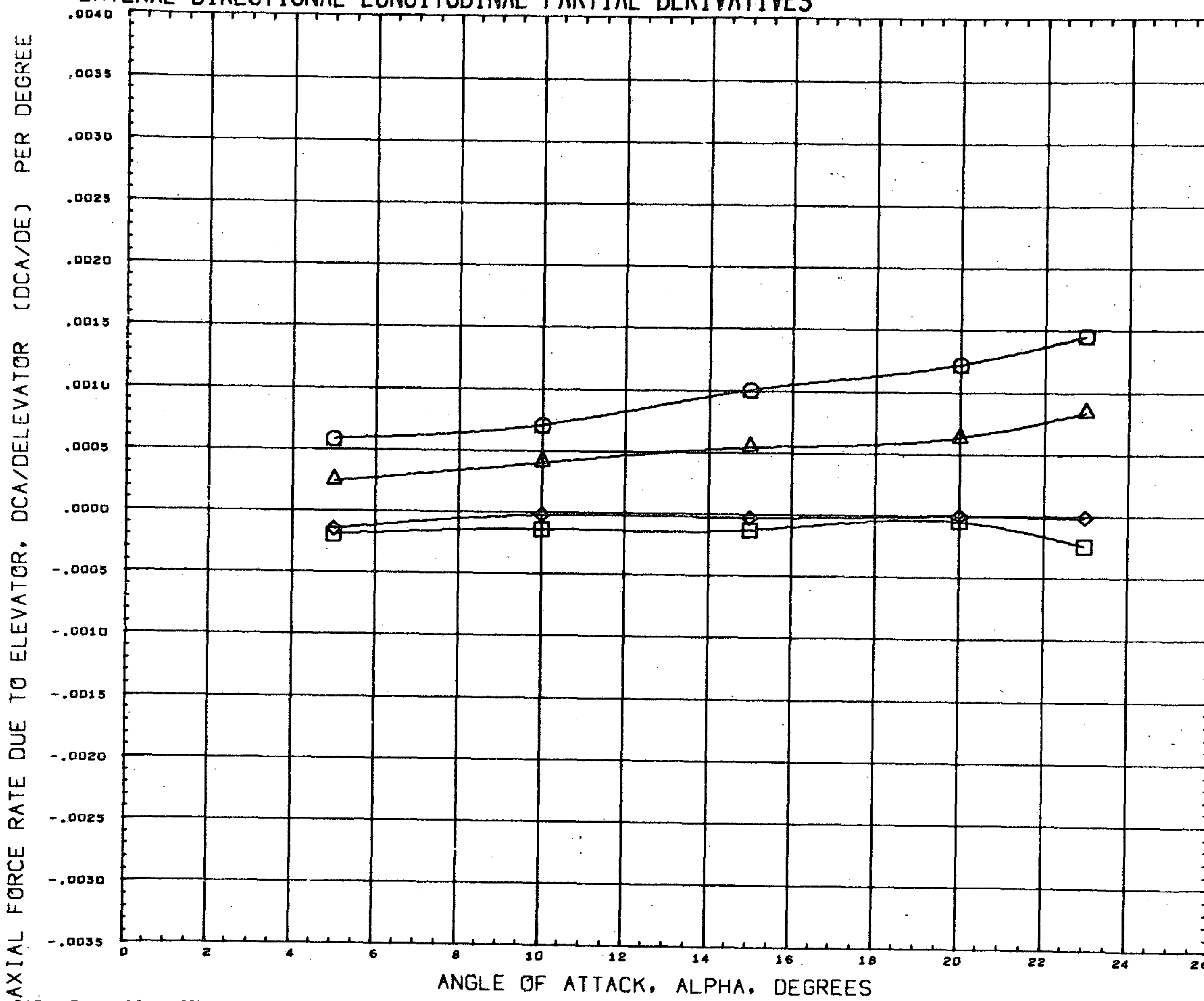
(X35EAD)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0		R=0	0.000	0.000	0.000	0.000
(X35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0		R=0	0.000	-10.000	0.000	0.000
(X35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0		R=0	0.000	-20.000	0.000	0.000

MACH 2.000

REFERENCE INFORMATION		
SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
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(X35EAO)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	0.000	0.000	0.000
(X35EAC)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-10.000	0.000	0.000
(X35EAB)	□	MSFC TWT-493 GD/C	B25W19C8V10	E=-20	C=0	R=0	0.000	-20.000	0.000	0.000

MACH 3.000

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
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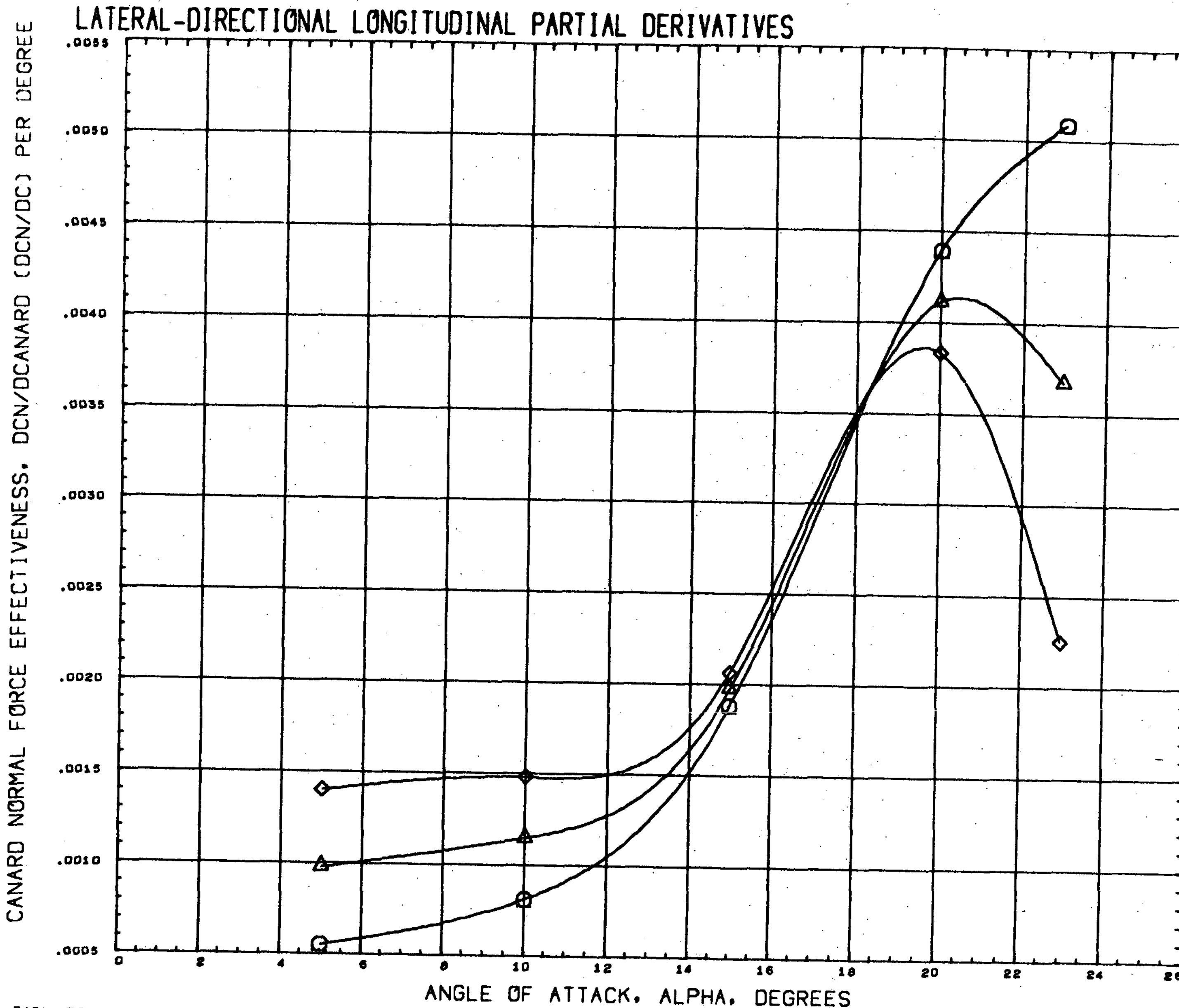
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	



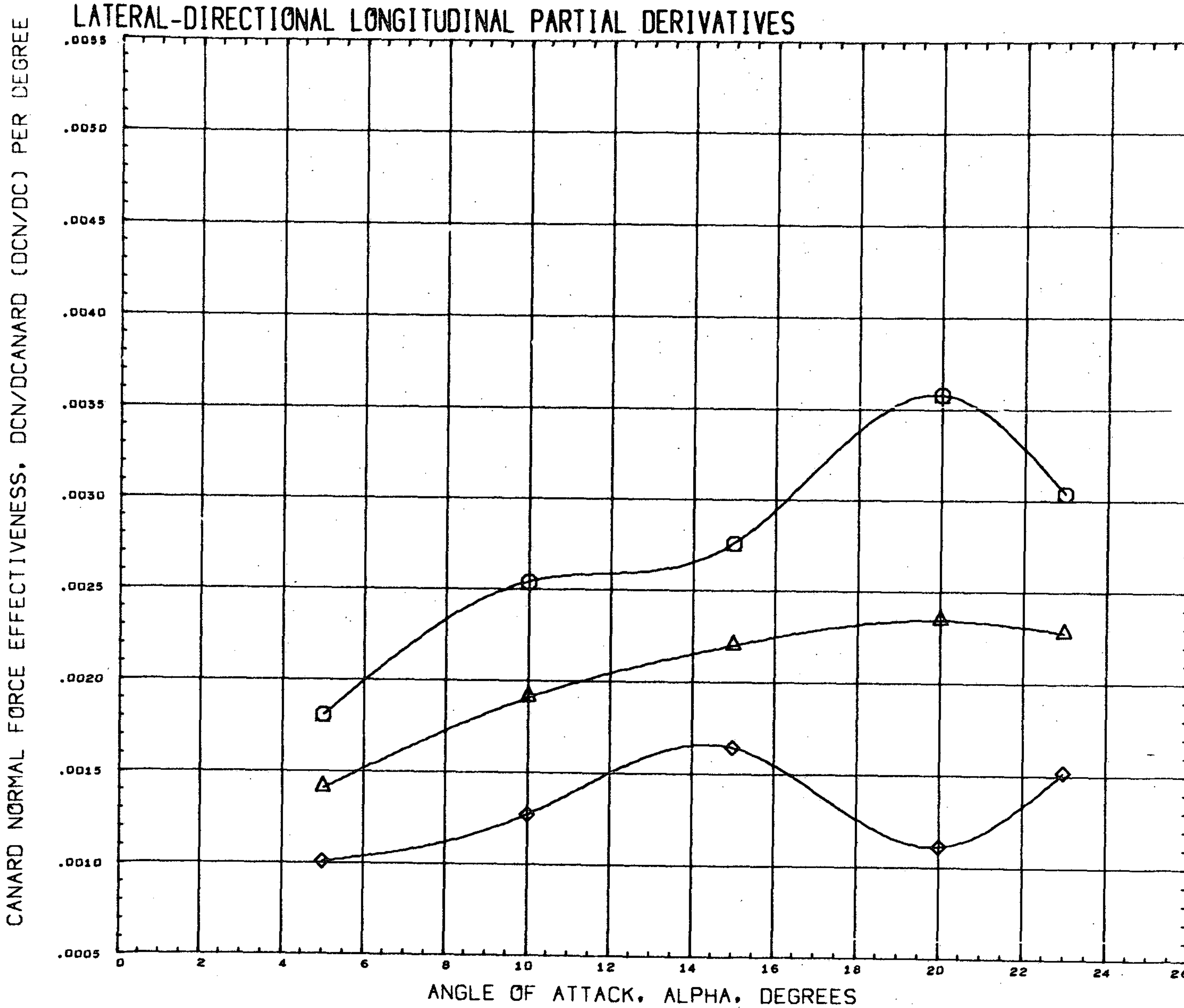
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(Y35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30 R=0	0.000	0.000	0.000	0.000
(Y35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30 R=0	0.000	0.000	-15.000	0.000
(Y35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 0.900

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRP	7.2990	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES

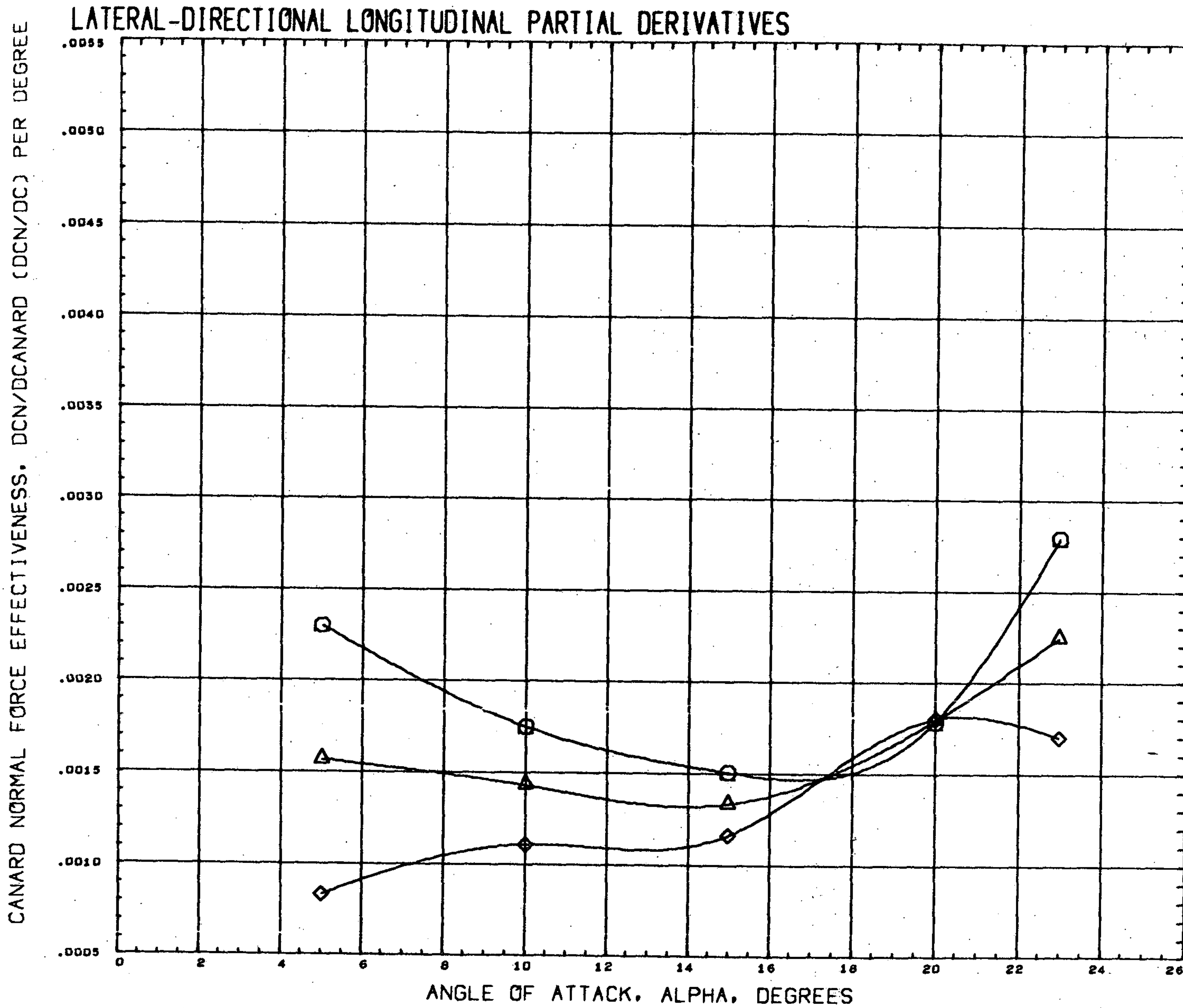


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(Y35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	0.000	0.000
(Y35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-15.000	0.000
(Y35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 1.200

REFERENCE INFORMATION

SREF	14.9040	SQ.IN.
LREF	3.0120	IN.
BREF	6.0180	IN.
XMRF	7.2990	IN.
YMRF	0.0000	IN.
ZMRF	0.0000	IN.
SCALE	0.0035	



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(Y35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	0.000	0.000
(Y35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-15.000	0.000
(Y35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

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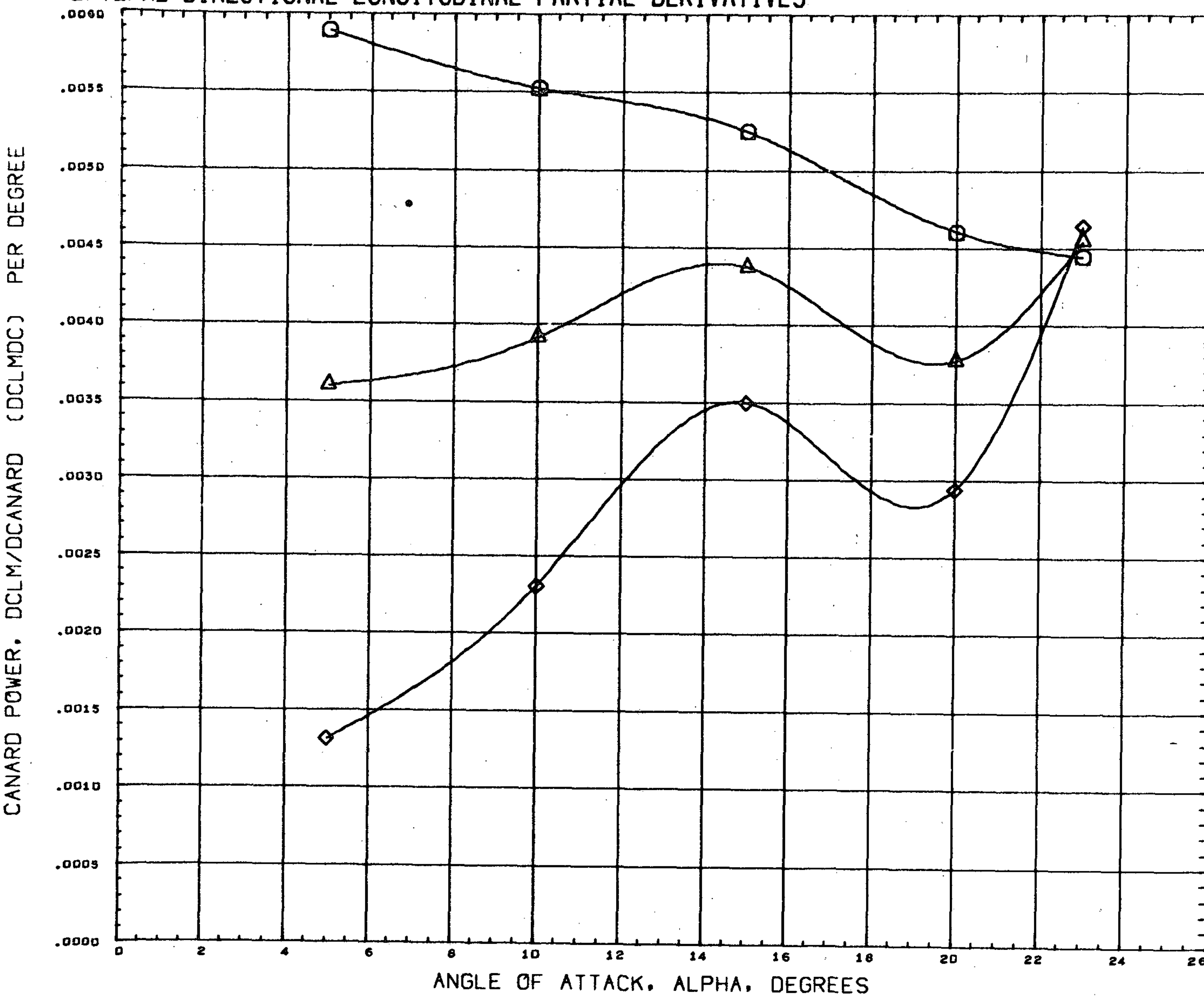
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.000

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(Y35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	0.000	0.000
(Y35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-15.000	0.000
(Y35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

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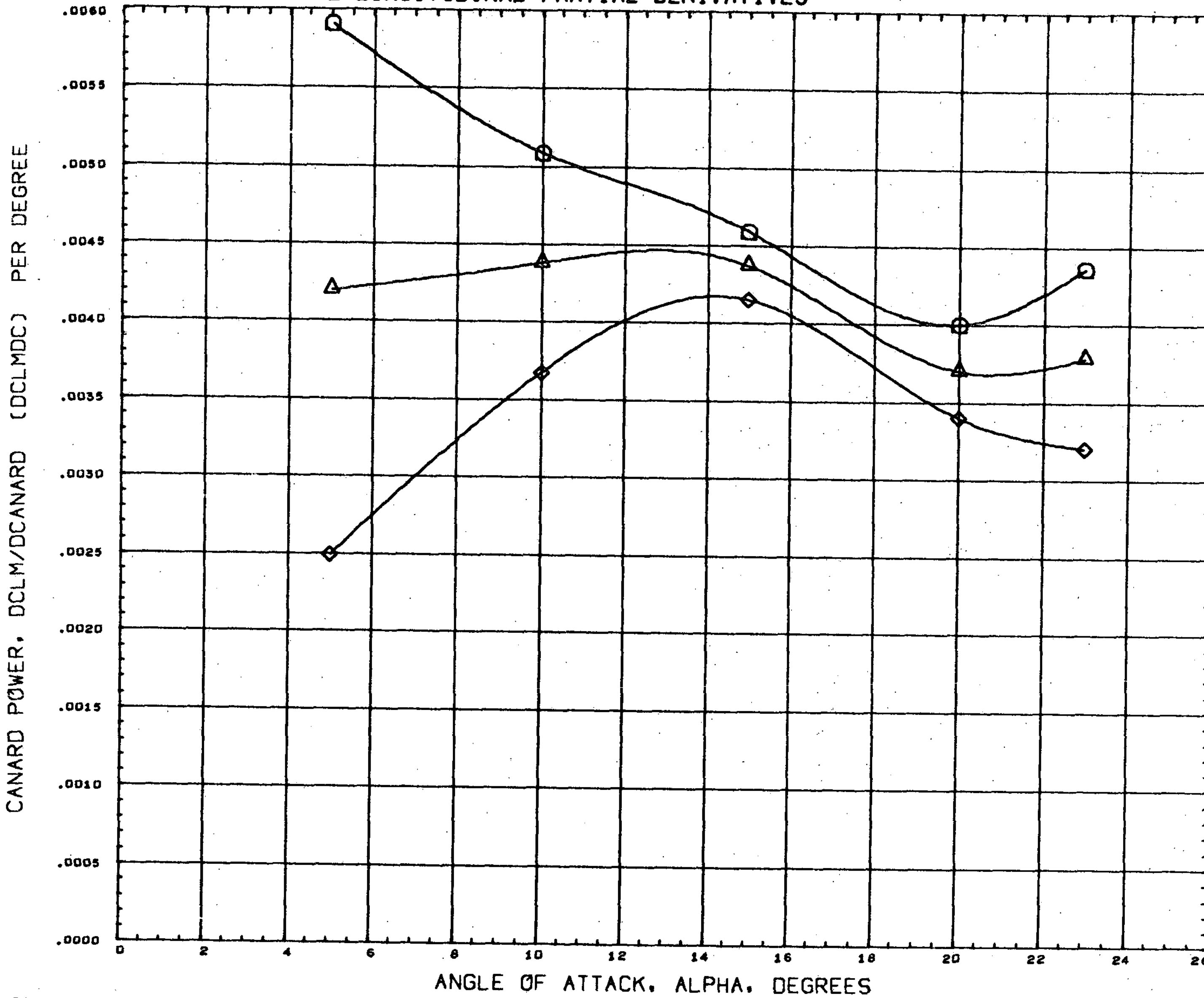
ZMRF	0.0000	IN.
SCALE	0.0035	

MACH 0.900

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(Y35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	0.000	0.000
(Y35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-15.000	0.000
(Y35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 1.200

REFERENCE INFORMATION

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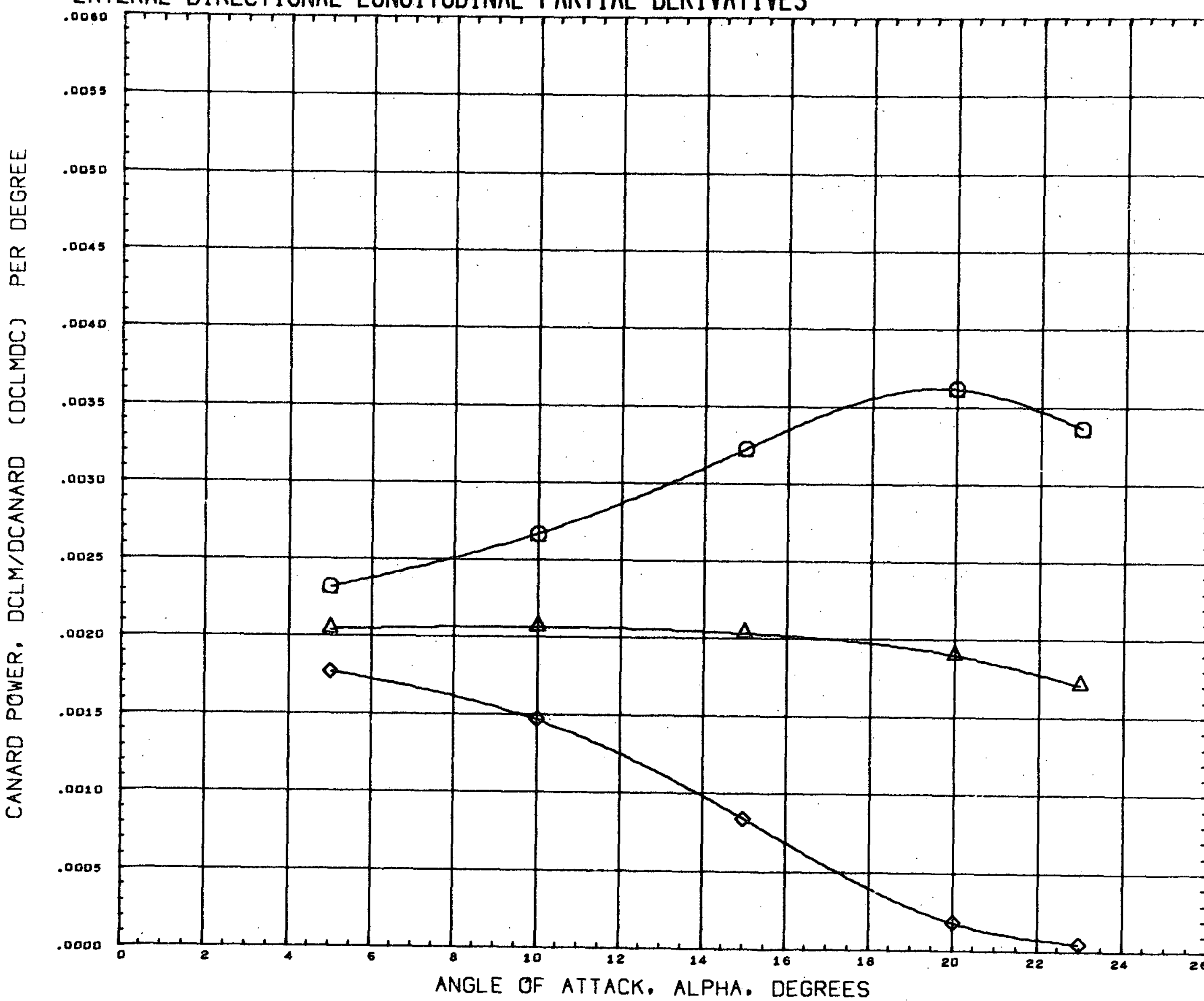
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(Y35EAO)	○	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	0.000	0.000
(Y35CAA)	△	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-15.000	0.000
(Y35CAB)	◇	MSFC TWT-493 GD/C B25W19C8V10 E=0 C=-30 R=0	0.000	0.000	-30.000	0.000

MACH 2.000

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YMRP	0.0000	IN.
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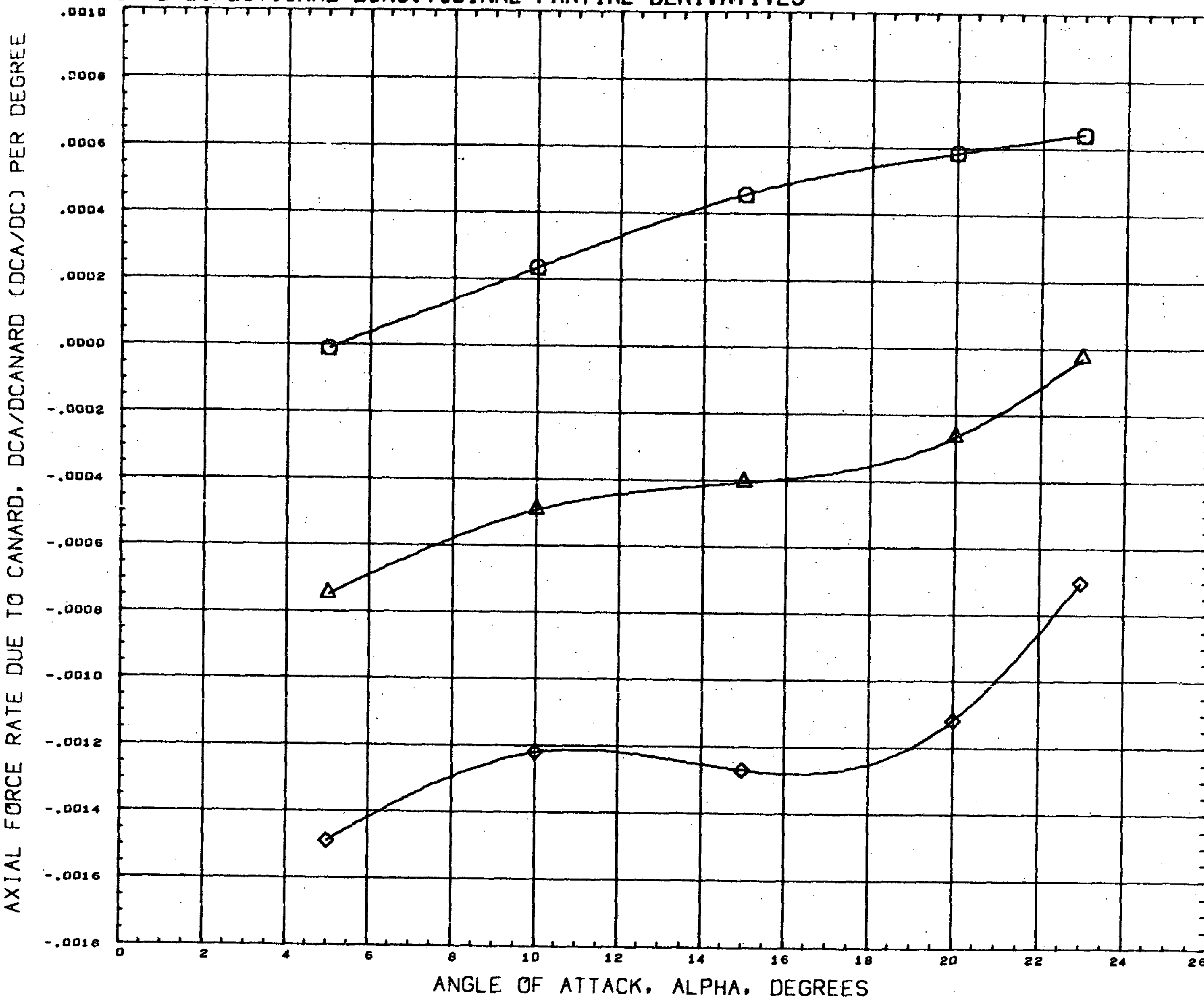
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				BETA	ELEVON	CANARD	RUDDER
(Y35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30 R=0	0.000	0.000	0.000	0.000
(Y35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30 R=0	0.000	0.000	-15.000	0.000
(Y35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30 R=0	0.000	0.000	-30.000	0.000

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BREF	6.0180	IN.
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ZMRP	0.0000	IN.
SCALE	0.0035	

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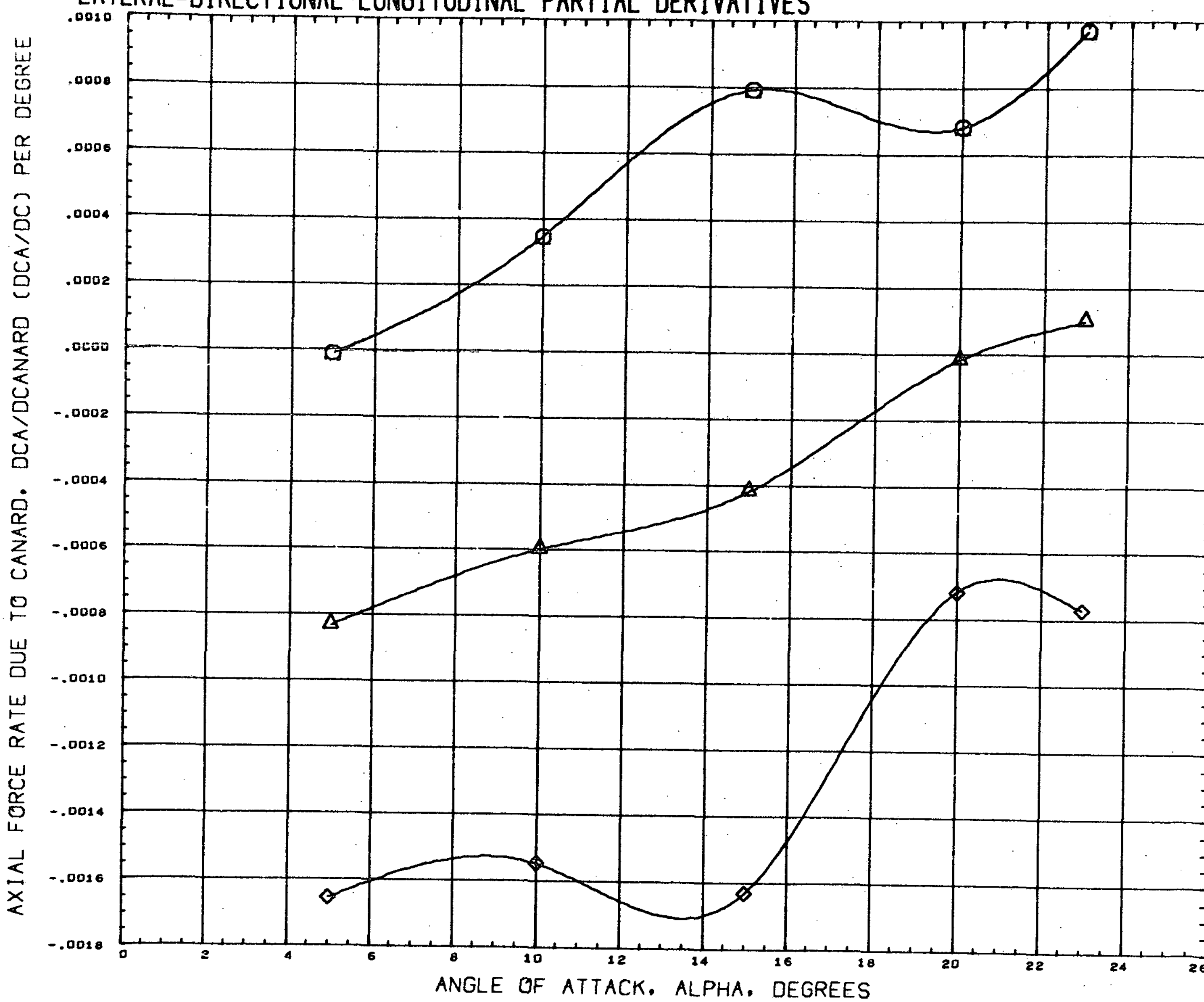

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
(Y35EAO)	○	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	0.000	0.000
(Y35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-15.000	0.000
(Y35CAB)	◇	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-30.000	0.000

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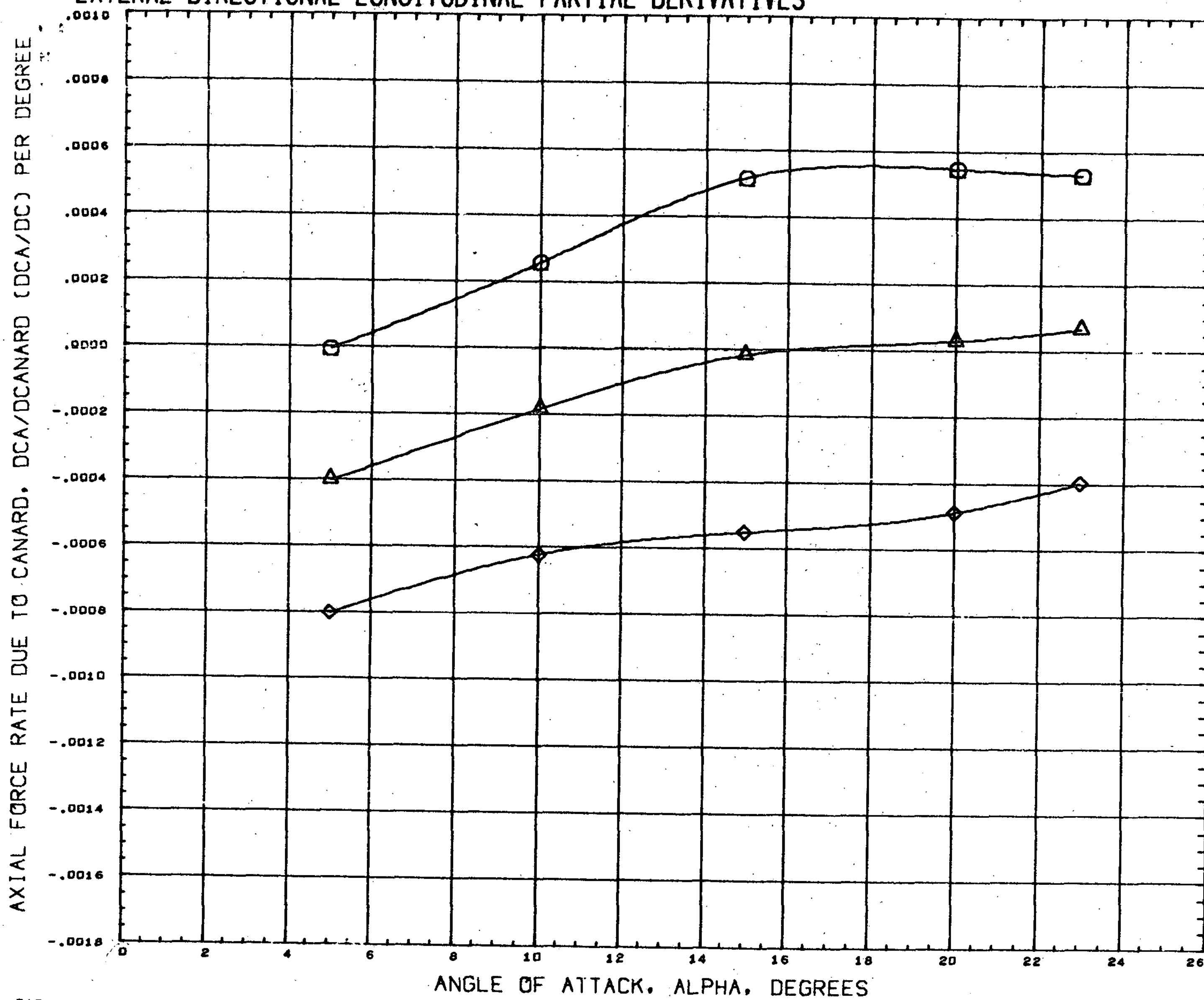
SCALE	0.0035	

LATERAL-DIRECTIONAL LONGITUDINAL PARTIAL DERIVATIVES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					BETA	ELEVON	CANARD	RUDDER
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(Y35CAA)	△	MSFC TWT-493 GD/C	B25W19C8V10	E=0	C=-30	R=0	0.000	0.000	-15.000	0.000
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