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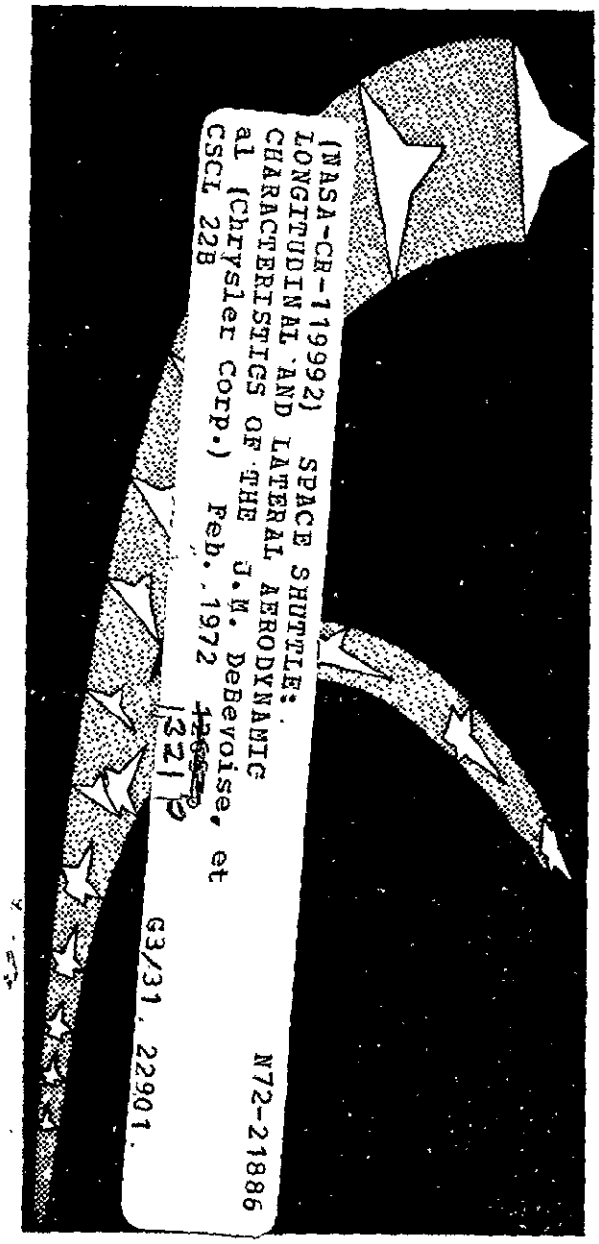

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SPACE SHUTTLE—

LONGITUDINAL AND LATERAL AERODYNAMIC CHARACTERISTICS OF THE 0.0035-SCALE GD/C AEROSPACE BOOSTER (B-15B-1)

by

J. M. DeBevoise, GD/C

R. F. McGinnis, GD/C

MSFC 14-INCH
TRISONIC WIND TUNNEL

MARSHALL
SPACE FLIGHT CENTER

N A S A

SADSAC SPACE SHUTTLE
AEROTHERMODYNAMIC
DATA MANAGEMENT SYSTEM

CONTRACT NAS8-4016
MARSHALL SPACE FLIGHT CENTER

SPACE DIVISION CHRYSLER CORPORATION

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February, 1972

SADSAC/SPACE SHUTTLE

WIND TUNNEL TEST DATA REPORT

CONFIGURATION: GD/Convair Aerospace Booster B-15B-1; 0.0035 Scale

TEST PURPOSE: Longitudinal and Lateral Aerodynamic Characteristics at Angles of Attack from -10 to 60 Degrees at Mach Numbers of 0.6 to 5.0

TEST FACILITY: MSFC 14 x 14 Inch Trisonic Tunnel

TESTING AGENCY: GD/Convair Aerospace

TEST NO. & DATE: MSFC TWT 481; February 1971

FACILITY COORDINATOR: J. Weaver - MSFC

PROJECT ENGINEER(S): J. M. DeBevoise - GDC

R. F. McGinnis - GDC

DATA MANAGEMENT SERVICES

LIAISON: John Hokd for J. E. Vaughn
Liaison Operations

DATA OPERATIONS: Albert D. Martin
Aero Thermo Data Group

RELEASE APPROVAL: N. D. Kemp, Supervisor
Aero Thermo Data Group

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FACILITY COORDINATOR:

Mr. Jim Weaver
Marshall Space Flight Center
Mail Stop - S&E-AERO-AAE
Huntsville, Alabama 35801

Phone: (205) 453-2512

PROJECT ENGINEERS:

Mr. John DeBevoise
Mail Zone 583-00, Bldg. 3
Kearny Mesa Plant
GD/Convair Aerospace Division
San Diego, California 92112

Phone: (714) 277-8900-X1793

Mr. R. F. McGinnis
Mail Zone 583-00, Bldg. 3
Kearny Mesa Plant
GD/Convair Aerospace Division
San Diego, California 92112

Phone: (714) 277-8900-X1793

SADSAC LIAISON:

Mr. John E. Vaughn
Department 4820
Chrysler Space Division
102 Wynn Drive
Huntsville, Alabama 35805

Phone: (205) 895-1560

SADSAC OPERATIONS:

Mr. Albert D. Martin
Department 2780
Chrysler Space Division
P. O. Box 29200
New Orleans, Louisiana 70129

Phone: (504) 255-2304

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LONGITUDINAL AND LATERAL AERODYNAMIC CHARACTERISTICS OF THE 0.0035-SCALE GD/C AEROSPACE BOOSTER (B-15B-1)

by J. M. DeBevoise, R. F. McGinnis

SUMMARY

Force tests on a 0.0035-scale model of the General Dynamics/Convair Space Shuttle B-15B-1 Booster were conducted in the MSFC Trisonic Wind Tunnel during February and March 1971. Longitudinal and lateral characteristics were obtained at Mach numbers from 0.6 to 4.96. The configuration tested had a low delta wing, all-movable canard controls of delta planform, and a single vertical tail. Most of the test was devoted to obtaining data relevant to the transition from atmospheric reentry to subsonic cruise. In that portion of the test the angles of attack ranged from 6 degrees to 60 degrees, and yaw runs were made at angles of attack of 15 and 35 degrees. The rest of the test was devoted to obtaining booster-alone buildup data relevant to the launch phase. For the launch phase, the Mach number range was from 0.6 to 2.0, the angles of attack were from -10 to +10 degrees, and yaw runs were made at zero angle of attack.

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

NOMENCLATURE (Continued)

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

ADDITIONS TO NOMENCLATURE

In addition to the standard SADSAC terms, the following terms are used:

A_{CAVB} = axial projection of area upon which the measured balance cavity pressure is assumed to act

A_{CAVS} = normal projection of the area (equal to cutout) upon which the balance cavity pressure is assumed to act

A_{b1} = area of base annular above fuselage center line

A_{b2} = area of base annulus below fuselage center line

DEL = deflection of left elevon, trailing edge down is positive, degrees

DER = deflection of right elevon, trailing edge down is positive, degrees

ELEVON = (DEL + DER)/2.0, degrees

DCL = deflection of left canard, trailing edge down is positive, degrees

DCR = deflection of right canard, trailing edge down is positive, degrees

CANARD = (DCL + DCR)/2.0, degrees

p_c = balance cavity pressure

p_{b1} = measured upper half base pressure

p_{b2} = measured lower half base pressure

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	-	-

SUMMARY OF SADSAC NOMENCLATURE - AERODYNAMIC FORCE AND MOMENT COEFFICENTS

CONFIGURATIONS INVESTIGATED

NOMENCLATURE

B19 = body for B-15B delta wing configuration

B20 = extended B19

W14 = delta wing

C4 = canard

C4A = C4 on B19 (see Figure 2)

C4B = C4 on B20 (see Figure 2)

C4S = C4 with split trailing edge (see Figure 16)

V7 = vertical tail

F4 = nose flap (see Figure 13)

F5 = body flap (see Figure 14)

F6 = ventral fin (see Figure 15)

Refer to the components sheets and figures in this text for detailed information on the above components.

COMBINATIONS TESTED

B19	B19W14C4S
B19V7	B19W14C4AV7
B19W14	B19W14C4AF4
B19C4A	B19W14C4AF5
B19C4AV7	B19W14C4AF6
B19W14V7	B20W14C4B
B19W14C4A	B20W14C4BV7

B19W14C4AV7 is the complete B-15B-1 configuration as it would be during re-entry and transition (engines and landing gear retracted), less minor protrusions such as external plumbing and orbiter attachment links. B20W14C4BV7 is the long-body version of the B-15B-1 configuration. F4, F5, F6 and S are yaw control devices.

TEST FACILITY DESCRIPTION

The NASA-MSFC 14 x 14 inch trisonic wind tunnel is an intermittent blowdown type that exhausts into a vacuum system or into the atmosphere. The important operating characteristics of this facility are discussed below.

The trisonic tunnel is capable of covering the Mach number range of 0.2 to 5.0 by utilizing a transonic section for the 0.2 to 2.50 range and a supersonic section for the 2.74 to 4.96 range. Mach number variations between 0.2 and 0.9 are obtained by using a controllable diffuser. Mach numbers between 0.95 and 1.30 are achieved by the use of plenum suction and the perforated walls in the test section. Mach numbers of 1.44, 1.93, and 2.50 are obtained with interchangeable sets of contoured nozzle blocks. The Mach numbers in the 2.74 to 4.96 range are obtained in the supersonic test section by utilizing contoured blocks which are automatically set by a hydraulic system. The flow has been calibrated at 0.25 Mach number increments.

The required recharge time for the tunnel is nominally 5-10 minutes with the transonic section and 15-20 minutes for the supersonic section. Changeover from the transonic section to the supersonic section requires approximately 30 minutes.

Actual run times are dependent upon the actual tunnel conditions, i.e. Mach number and stagnation pressure. Nominal run times are approximately 1.5 to 2.0 minutes in the transonic section and 45 to 50 seconds in the supersonic section.

The models are sting supported from a support sector which has a pitch range of $\pm 10^{\circ}$.

The data acquisition system is a solid state analog to digital converter which has 10 data channels, 8 of which are available to the customer.

TEST CONDITIONS

The test was a conventional force test, extended to high angles of attack. The tunnel operating conditions are tabulated in the following table. The model, with a span of 6.099 inches and a length of 9.734 inches, was relatively large compared with the test section. Thus the attainable angle of attack was limited by blockage considerations at the lower Mach numbers and by interactions with the tunnel boundary layer at high Mach numbers.

A double-knuckle sting was used for angles of attack above 25 degrees. This sting had a narrow blade section designed to minimize its effect on the pressures on the base and on the rear upper body. The blade required a small slot in the upper rear body and required removal of the vertical tail. Thus all test data at angles of attack above 25 degrees correspond to the vertical-tail-off condition.

The angle of attack range was covered as follows:

-10 to + 10 degrees, straight sting with no offset

+5 to +25 degrees, straight sting with 15° offset (See Figures 3 and 6)

25 to 45 degrees, double knuckle sting at 35° (See Figure 4)

30 to 50 degrees, double knuckle sting at 40° (See Figures 5 and 7)

45 to 65 degrees, double knuckle sting at 55° (See Figure 4)

Some pitch runs at 6° yaw were made over the angle of attack range from -10° to $+10^{\circ}$, using the straight sting with a 6° offset adapter. Yaw runs at angles of attack of 15° and 35° were made by rotating the corresponding stings 90° about the longitudinal axis, then rotating about the tunnel pitch axis.

DATA REDUCTION FOR SADSAC

The reference dimensions are the following:

S_{ref} = 15.656 sq. in	(theor. wing area)	as-built wing dimensions
ℓ_{ref} = 3.0948 in.	($\bar{c}$, or MAC)	
b_{ref} = 6.099 in.	(span)	

The moment reference point is at:

MS 10.210, or 6.710 inches aft of the nose of the B19 body.
Vertical location on body center line.

Dimensions for base pressure corrections:
A conventional straight sting was used for angles of attack less than 24 degrees. A blade-type sting was used for angles of attack greater than 24 degrees. With the blade sting the vertical tail was removed and a cutout was made in the upper rear body. The cutout created an unsymmetrical balance cavity with a net area in planview, so that when the cavity pressure was not equal to external pressure on the upper rear body, a normal force increment (and pitching moment) was produced. The cutout also affected the axial projections of the areas upon which the base pressure and the balance cavity pressure were assumed to act. With the cutout, the front surface of the cutout is assumed to be acted upon by cavity pressure, not base pressure. Therefore, the base and cavity areas used in the data reduction were as follows:

	Sq. In.				In.
Sting config.	A_{b1}	A_{b2}	A_{CAVB}	A_{CAVS}	X_2
Straight	0.418	0.634	0.785	0	-
Blade ($\alpha > 24^{\circ}$)	0.364	0.634	0.839	0.1717	2.134

Equations:

$$CN = C_N = \left[F_N + (p_c - p_\infty) A_{CAVS} \right] \cdot 1/qS_{ref}$$

$$CLM = C_m = \left[M_Y - (p_c - p_\infty) A_{CAVS} X_2 \right] \cdot 1/qS_{ref} \bar{c}$$

$$CA = C_A = \left[F_A + (p_c - p_b) \right] \cdot 1/qS_{ref}, \text{ when } p_b = \frac{p_{b1} + p_{b2}}{2}$$

$$CAB = C_{A_b} = - \left[(p_{b_1} - p_\infty) A_{b_1} + (p_{b_2} - p_\infty) A_{b_2} + (p_b - p_\infty) A_{CAVB} \right] \cdot 1/qS_{ref}$$

$$CY = C_y = F_Y/qS_{ref}$$

$$CBL = C_\ell = M_X/qS_{ref}b$$

$$CYN = C_n = M_Z/qS_{ref}b$$

$CP1 = C_{p1} = (p_{b_1} - p_\infty)/q$, upper half of base pressure coefficient

$CP2 = C_{p2} = (p_{b_2} - p_\infty)/q$, lower half of base pressure coefficient

$CPC = C_{p_c} = (p_c - p_\infty)/q$, balance cavity pressure coefficient

DATA REDUCTION BY SADSAC

The SADSAC names of the data input for this test are CLM, CN, CYN, CY, CBL, CA, CAB, CPI, CP2, and CPC; this body axis data were converted to stability axis data by the module FCAXIS. The module FVARBL was used to create values of CLM/CN, CAF, and L/D; L/D data are based on total drag force data (CD). The module FSTACK was used to combine various data sets with different alpha sweeps into single data sets. The module FPNTRP was used to obtain normalized data for parametric conditions not actually tested but within the limits of the test data. The module FDERIV was used to calculate longitudinal partial derivatives with respect to alpha and lateral partial derivatives with respect to beta.

Wing longitudinal characteristics referenced to the exposed wing dimensions were calculated by using the modules FINTRP, FCOMBN, and FSCALE. Initially the data for the body and wing plus body were normalized using FINTRP. The module FCOMBN was used to subtract the normalized body data from the wing plus body data. The module FSCALE was then used to reference the normalized wing data to the exposed wing dimensions and to locate the moment reference point (MRP) at the exposed wing mean aerodynamic quarter chord. Listed below are the dimensional data used in the above calculations:

Dimensional Symbols	Initial SADSAC Input Dimensional Data	Exposed Wing Dimensional Data
S_{ref}	15.656 in^2	10.03 in^2
l_{ref}	3.095 in.	2.504 in.
b	6.099 in.	4.743 in.
XMRP	6.710 in.	7.857 in.
YMRP	0.0 in.	0.0 in.
ZMRP	0.0 in.	0.624 in.

The body longitudinal characteristics referenced to the body dimensions were calculated by using the module FSCALE; the applicable dimensional data used for these calculations are listed below:

Dimensional Symbols	Initial SADSAC Input Dimensional Data	Dimensional Data for Body
S_{ref}	15.656 $in.^2$	12.501 $in.^2$
l_{ref}	3.095 in.	9.734 in.
b	6.099 in.	1.356 in.
XMRP	6.710 in.	6.710 in.
YMRP	0.0 in.	0.0 in.
ZMRP	0.0 in.	0.0 in.

The module FPARAM was used to calculate derivatives with respect to elevon, canard, and aileron deflections.

Listed below are the data sets created by SADSAC:

Newly Created Data Set Number	Data Set Utilized to Create the New Data Set	SADSAC Module Used to Create New Data Set
C28001	R28B31, R28B31, R28B33	FSTACK
C28008	R28A01, R28A02	
C28002	R28E71, R28E72	
C28003	R28E74, R28E75	
C28012	R28E77, R28E78	
C28009	R28C41, R28C42	
C28010	R28C47, R28C48	
C28011	R28C44, R28C45	
C28005	R28B21, R28B22	
C28004	R28B11, R28B12, R28B13	
C28013	R28W11, R28W12, R28W13	
C28021	R28L91, R28L92	
A28101	R28A01-R28B31	FCOMBN
A28102	R28E71-R28B31	
A28103	R28E74-R28B31	
A28104	R28E77-R28B31	
A28112	R28B21-R28B11	
A28113	R28B16-R28B14	
N28014	R28W11-R28B11	
N28015	R28B21-R28B11	
N28016	R28B31-R28B21-R28W11 + R28B11	
N28017	R28B15-R28B14	
N28018	R28B16-R28B14	
N28019	R28B17-R28B16 + R28B21	
N28020	R28B19-R28B17	
N28105	R28E74, R28E71, R28A01, R28B31, R28E77	FPNTRP
N28106		
N28107		
N28108		
N28109		
N28110	R28C41, R28B31, R28C44	
N28111		

DISCUSSION OF HIGH α TESTS

The allowable angle of attack can be limited by any one of several considerations, including the following:

a. Load capacity of the balance

b. Tunnel starting, or establishment of the flow

c. Interaction between model-generated shocks and tunnel boundary layer

d. Sting interference.

High angle of attack runs were not attempted at Mach numbers below 2 because of the expectation of overloading the balance and causing unstarts, or flow breakdown. At Mach 2 the balance capacity limited the permissible angle of attack even at minimum dynamic pressure, to about 30 degrees. Therefore, high angles of attack were obtained only at nominal Mach numbers of 3 or more where exhausting into the vacuum field made lower dynamic pressures available. The limiting consideration was then interaction between model-generated shocks and the tunnel boundary layer.

Figures 8 and 9 present Schlieren photographs of interference that developed to the point of affecting the pressures on the model. In both cases the complete $B_{19}W_{14}C_{4A}$ configuration is mounted on the double-knuckle sting at the 35 degree setting. The high pressure field of the wing separated the boundary layer on the tunnel floor sufficiently far upstream that the flow on the model was affected. The data obtained under the conditions shown were obviously invalid and were not included in the SADSAC tape or in the data plots in this report. The data appeared valid at angles of attack up to 39 degrees at Mach 3 and 35 degrees at Mach 5.

The 55 degree setting of the double knuckle sting located the model higher in the tunnel than the 35 degree setting. Therefore, to investigate the relationship between allowable angle of attack and gap between wing and tunnel floor, the 55 degree sting setting was tried at Mach 3. Figure 10 presents a Schlieren photo from run 146 at an angle of attack of about 59 degrees. Interference has developed, but the angle of attack is much greater than those attained with the 35 degree sting setting. The data showed that interference actually started to develop at an angle of attack of about 52 degrees.

Since the results of runs 141, 143, and 146 showed that there was little chance of obtaining valid wing-on data at angles of attack substantially

above 52 degrees at Mach 3 and somewhat less at Mach 5, the double-knuckle sting was modified to a 40 degree setting to locate the model further from the tunnel floor, while permitting the angles of attack to be from 30 to 50 degrees. In this modification the knuckle nearer to the model was not changed, the only change being a 5 degree change in the rear knuckle. Thus the model-sting geometry in the vicinity of the model was the same with the 40 degree setting as with the 35 degree setting.

The 40 degree setting was used for the remainder of the pitch runs at high angle of attack. Figures 11 and 12 present Schlieren photos at Mach numbers of 3 and 5, with the 40 degree sting setting. The allowable angle of attack, wing-on, is about 50 degrees at Mach 3 and about 45 degrees at Mach 5. The allowable angle of attack was affected somewhat by the deflection of the elevons and even by deflection of the canards. In all cases, where the data indicated that interference had developed, the affected data points were deleted from the SADSAC tape.

Although the sting geometry close to the base of the model was the same with both the 35 degree setting and the 40 degree setting, the data at the same angle of attack did not agree as well as would be expected. The greatest disagreement was in the pitching moment, at Mach 3. The difference can be seen by comparing run 141 (part of data set R28B32) and run 173 (part of data set R28C51). A similar, though smaller, disagreement is shown in the Mach 5 data, run 143 (data set R28B32) and run 172 (data set R28C51). At both Mach numbers, going from the 35 degree sting setting to the 40 degree sting setting caused a positive C_m increment and a negative C_N increment. The increments remain approximately constant over the entire angle of attack range where a comparison is possible (30 to 40 degrees angle of attack). The reason for the differences is not known.

TABLE I.

TEST CONDITIONS
TEST MSFC TWT 481

MACH NUMBER	REYNOLDS NUMBER per ~~unit length~~ Foot	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	6.6×10^6	5.73	92 - 100
0.90	7.0×10^6	8.08	↓
0.95	6.9×10^6	8.18	
1.00	6.9×10^6	8.51	
1.05	6.8×10^6	8.60	
1.10	6.8×10^6	8.85	
1.20	6.7×10^6	9.04	
1.44	6.6×10^6	9.60	
1.93	7.3×10^6	10.55	
3.00	4.4×10^6	4.94	
4.00	4.6×10^6	3.60	
5.00	6.1×10^6	3.40	

BALANCE UTILIZED: MSFC, TWT MODEL 200 MOMENT BALANCE

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	175 LB		
SF	150 LB		
AF	100 LB		
PM	185 IN LB		
YM	160 IN LB		
RM	50 IN LB		

COMMENTS:

TABLE II. TEST MSFC TWT 481 DATA SET COLLATION SHEET

☐ PRETEST

☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_{eL}	δ_{eR}	δ_{aL}	δ_{aR}	NO. of RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE 0.60	0.90	0.95	1.00	1.05	1.10	1.20	1.50	2.00	3.00	4.00	5.00
R28B11	B19 V7	A	0°	–	–	–	–		28	27	26	25	24	23	22	87	88	124	123	122
R28B12	B19	B		–	–	–	–											153		151
R28B13	B19	C		–	–	–	–											156		154
R28B21	B19 W14 V7	A		0	0	–	–		15	16	17	18	19	20	21	86	89	119	120	121
R28B22	B19 W14	B'		0	0	–	–											171		170
R28B31	B19W14C4AV7	A		0	0	0	0		14	13	12	11	10	9	8	83	91	118	117	116
R28B32	B19W14C4A	B		0	0	0	0										136	141	142	143
R28B33	B19W14C4A	C		0	0	0	0											146		
R28C41	B19W14C4AV7	A		0	0	-30	-30			29	30		31		32	84	92	113	114	115
R28C42	B19W14C4A	B'		0	0	-30	-30											175		174
R28C44	B19W14C4AV7	A		0	0	+15	+15			36	35		34		33	85	90	112	111	110
R28C45	B19W14C4A	B'		0	0	+15	+15											177		176
R28C47	B19W14C4AV7	A		0	0	-60	-60			37			38							
R28C48	B19W14C4A	B'		0	0	-60	-60											179		178
R28E71	B19W14C4A V7	A		-20	-20	0	0			39		40			41		93	106		
R28E72	B19W14C4A	B'		-20	-20	0	0											181		180
R28E74	B19W14C4AV7	A		-60	-60	0	0			42		43			44		94	105		
R28E75	B19W14C4A	B'		-60	-60	0	0											183		182
R28L91	B20W14C4BV7	A		0	0	0	0			45		46			47		95			
R28L92	B20W14C4B	B'		0	0	0	0											186		

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

CLM CN CYN CY CBL CA CAB CPI CP2 CPC IDPVAR(1) IDPVAR(2) NDV

MACH NO. α or β

COEFFICIENTS: α or β SCHEDULES

αA = +6, 8, 10, 12, 14, 16, 18, 20, 22 DEG.

αB = +25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45 DEG

αC = +45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65 DEG.

αB' = +30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50 DEG.

TABLE II. (CONTINUED)

TEST MSFC TWT 481 DATA SET COLLATION SHEET

☐ PRETEST

☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_{eL}	δ_{eR}	δ_{cL}	δ_{cR}	NO. of RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE 0.60	0.90	0.95	1.00	1.05	1.10	1.20	1.50	2.00	3.00	4.00	5.00
R28A01	B19W14C4AV7	A	0	0	-20	0	0			48		49			50		96			
R28A02	B19W14C4A	B'	↓	↓	↓	↓	↓											185		189
R28W11	B19C4AV7	A		—	—					51		52			53		97			
R28W12	B19C4A	B		-	-													148		147
R28W13	B19C4A	C	↓	-	-	↓	↓											149		150
R28Y21	B19W14C4AV7	15	D	0	0					59	58	57	56	55	54	82	98	104		
R28Y22	B19W14C4AV7 (δ_R=10°)									77			60		61	80		101		
R28Y23	B19W14C4AV7				↓	-30	-30			69			63		62	81		102		
R28Y24	B19W14C4AV7				-20	0	0			65			66		67	78		103		
R28Y31	B19W14C4A	↓	↓	↓	0	0	0			73	72	71	70	69	68	79	99	100		
R28Y41	B19W14C4A	35		0	0	0	0											138		137
R28Y42	B19W14C4A	↓	↓	0	-20	0	0											155		152
R28E77	B19W14C4AV7	A	0	+10	+10	0	0			79		75			76			125		
R28E78	B19W14C4A	B'	0	+10	+10	0	0											187		
R28C51	B19W14C4A	B'	0	0	0	0	0											173		172
R28F01	B19W14C4AF6	B'	0	-90	-90	+15	+15											188		
R28Y43	B19W14C4A	35	D	+10	-10	0	0											190	165	
R28Y44	B19W14C4A	↓	↓	0	0	-30	0											166		144
R28G01	B19W14C4AV7	A	0	0	0	0	0		1	2	3	4	5	6	7					

m=4.5

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

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

α or β SCHEDULES: βD = -10, -8, -6, -4, -2, 0, 2, 4, 6, 8, 10 DEG.

TABLE II. (CONCLUDED)

TEST MSFC TWT 481 DATA SET COLLATION SHEET

☐ PRETEST

☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_{CL}	δ_{CR}	δ_{CL}	δ_{CP}	NO. of RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE 0.60	0.90	0.95	1.00	1.05	1.10	1.20	1.50	2.00	3.00	4.50	5.00
R28Y61	B19W14C4A	35	D	0	0	-45	-45													168
R28Y62	B19W14C4AF4	↓	↓	↓	↓	↓	↓												158	157
R28Y63	B19W14C4AF5																		160	159
R28Y64	B19W14C4AF6																		162	161	
R28Y65	B19W14C4S																		169	163
R28C50	B19W14C4AV7	A	0	0	0	-45	-45												107	108	109
R28B14	B19	E	0	0	0	0	0		203	202				201		208	216			
R28B15	B19C4A								204	205				206		207	215			
R28B16	B19W14								198	199				200		209	214			
R28B17	B19W14C4A		6°						197	196				195						
R28B18			6°						133	134				135		128	127			
R28B19	B19W14C4AV7		6°						132	131				130		129	126			
R28B20		↓	0						189	190				191		210	213			
R28Y53		0	D						199	193				192		211	212			

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

CLM | CN | CYN | CY | CBL | CA | CAB | CPI | CP2 | CPC | IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS:

α or β SCHEDULES: αE = -10, -8, -6, -4, -2, 0, 2, 4, 6, 8, 10 DEG.

MACH NO.

α OR β

TABLE III

MODEL COMPONENT DESCRIPTIONS

TABLE III

MODEL COMPONENT DESCRIPTIONS

MODEL COMPONENT: BODY - B_{19}

GENERAL DESCRIPTION: Body for B-15B Delta Wing Configuration, with circular cross section at nose, fairing to flat bottom at wing. Flats on sides to closegap at canard root forward of hinge line. Fairings over rocket engines.

DRAWING NUMBER: WT-70-105222

DIMENSIONS:	**FULL-SCALE**	**MODEL SCALE** AS BUILT
Length (nose to wing T. E.)	2757	9734
Max. Width	387	1.356
Max. Depth	453	1.587
Fineness Ratio	6.08	6.13
Area		
Max. Cross-Sectional	183837	2.252
Planform	1010512	12.501
Wetted		
Base	150028	1.840

TABLE III
(Continued)

MODEL COMPONENT DESCRIPTIONS

MODEL COMPONENT: BODY - B_{20}

GENERAL DESCRIPTION: Body for B-15B Delta Wing Configuration, extended 10% over basic (B_{19}) body

DRAWING NUMBER: WT-70-105222

DIMENSIONS:	**FULL-SCALE**	**MODEL SCALE** AS BUILT
Length (nose to wing T. E.)	3033	10.689
Max. Width	387	1.356
Max. Depth	453	1.587
Fineness Ratio	6.69	6.73
Area		
Max. Cross-Sectional	183837	2.252
Planform	1117388	13.809
Wetted		
Base	150.028	1.840

TABLE III
(Continued)
MODEL COMPONENT DESCRIPTIONS.

MODEL COMPONENT: Wing W_{14}

GENERAL DESCRIPTION: W_{10} modified to unswept trailing edge and with twist outboard of B. L. 340 linearly increasing to -4 degrees at tip and with leading edge faired into fuselage(W_{10} is the basic B-15B wing)

DRAWING NUMBER: WT-7-105222

DIMENSIONS:	FULL-SCALE	MODEL SCALE AS BUILT
TOTAL DATA		
Area		
Planform	1241959	15.655
Wetted		
Span (equivalent)	1739	5.099
Aspect Ratio	2.436	2.38
Rate of Taper		
Taper Ratio	0.105	0.1192
Diehedral Angle, degrees	3 at T.E.	3 at T. E.
Incidence Angle, degrees at root	2	2
Aerodynamic Twist, degrees	-4	-4
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	53	53
Trailing Edge	0	0
0.25 Element Line	44.85	44.85
Chords:		
Root (Wing Sta. 0.0)	1291	4.587
Tip, (equivalent)	137	0.547
MAC	869.4	3.095
Fus. Sta. of .25 MAC*	3104.9	10.913*
W.P. of .25 MAC	219	0.766
B.L. of .25 MAC	136.9	1.126
Airfoil Section		
Root	NACA -0010-64(mod)	
Tip	NACA -0010-64(mod)	
EXPOSED DATA		
Area	812980	10.03
Span, (equivalent)	1373	4.743
Aspect Ratio	2.25	2.24
Taper Ratio	0.130	0.1435
Chords		
Root	1048	3.684
Tip	137	0.547
MAC	709.1	2.504
Fus. Sta. of .25 MAC*	3224.9	11.356*
W.P. of .25 MAC	222	0.624
B.L. of .25 MAC	438.6	1.572

*Fuselage stations are relative to an origin 3.500 inches ahead of the nose of B_{19}

TABLE III
(Continued)
MODEL COMPONENT DESCRIPTIONS

MODEL COMPONENT: Canard C_4

GENERAL DESCRIPTION: Basic canard for B-15B Delta Wing Configuration

DRAWING NUMBER: WT-70-105224

DIMENSIONS:	FULL-SCALE	MODEL SCALE AS BUILT
Area (exposed)	66286	0.706
Span (equivalent)	352	2.585
Inb'd equivalent chord	341	1.061
Outb'd equivalent chord	36	0.099
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord		
At Outb'd equiv. chord		
Sweep Back Angles, degrees		
Leading Edge	60	57.68
Tailing Edge	0	0
Hingeline		
Area Moment (Normal to hinge line)		

Hinge line located at 25% of M.A.C.of exposed area

TABLE III
(Continued)
MODEL COMPONENT DESCRIPTIONS

MODEL COMPONENT: Vertical - V_7

GENERAL DESCRIPTION: Basic vertical for B-15B Delta Wing Configuration

DRAWING NUMBER: WT-70-105222

DIMENSIONS:	FULL-SCALE	MODEL SCALE AS BUILT
Area	177306	2.135
Span (equivalent)	485	1.674
Inb'd equivalent chord	504	1.723
Outb'd equivalent chord	252	0.826
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.35	0.35
At Outb'd equiv. chord		
Sweep Back Angles, degrees		
Leading Edge	35	36.40
Tailing Edge	10	11.29
Hingeline	19.83	19.83
Area Moment (Normal to hinge line)		

TABLE IV.

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13	Nose Flap F4.	49
14	Body Flap F5.	50
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16	C4 Canard with Split Trailing Edge C45	52

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Longitudinal Characteristics at Zero Deflection of Elevons and Canards	A	Configuration	1-108
Longitudinal Characteristics for Various Elevon Deflections	B	Elevon Deflections	109-168
Longitudinal Characteristics for Various Elevon Deflections	C	Alpha, Elevon Deflection, Configuration	169-213
Longitudinal Partial Derivatives With Respect to Alpha	D	Elevon Deflections, Configuration	214-243
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Longitudinal Coefficients Versus Elevon Deflection	F	Configuration, Alpha	281-364
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Longitudinal Characteristics at Various Deflections	A, B	Configuration, Canard Deflection	417-532

TABLE V. DATA DISPLAY INDEX
(Continued)

TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PAGES
Longitudinal Characteristics at Various Deflections	C	Configuration, Canard Deflection	533-542
Longitudinal Characteristics at Various Deflections	B	Canard Deflection, Configuration	543-558
Longitudinal Characteristics at Various Deflections	C	Configuration, Canard Deflection, Alpha	559-583
Longitudinal Stability Derivatives With Respect to Alpha at Various Canard Deflections	D	Canard Deflections Configuration	584-623
Longitudinal Stability Derivatives With Respect to Alpha at Various Canard Deflections	E	Alpha, Canard Deflections, Configuration	624-660
Longitudinal Coefficient Versus Canard Deflection	F	Alpha, Configuration	661-750
Trim Characteristics at Various Canard Deflections	G	Canard Deflections, Configuration	751-770
Longitudinal Partial Derivatives With Respect to Canard Deflection	J	Alpha, Canard Deflections	771-815
Longitudinal Partial Derivatives With Respect to Canard Deflection	K	Alpha, Canard Deflections	816-830
Body and Body With Vertical Tail, Longitudinal Characteristics	B	Configuration	831-850
Body - Wing, Longitudinal Characteristics	B	Configuration	851-862
Wing Longitudinal Characteristics Referred to Wing Dimensions	L	Alpha	863-868

TABLE V. DATA DISPLAY INDEX
(Continued)

TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PAGES
Body Longitudinal Characteristics Referred to Body Dimensions	L	Configuration Alpha	869-874
Longitudinal Buildup at Alphas Greater Than 6 Degrees	B	Configuration	875-922
Longitudinal Characteristics as Affected By Body Length	B	Configuration	923-942
Effect of Grit on Longitudinal Characteristics of Complete Configuration	B		943-990
Longitudinal Buildup at Small Alphas	B	Configuration	991-1010
Longitudinal Characteristics at 6 Degrees Sideslip and Small Alphas	B	Configuration	1011-1030
Component Longitudinal Increments At Small Alphas and Zero Yaw	B	Configuration, Components	1031-1062
Complete Configuration Lateral Coefficients Versus Beta	M	Configuration	1063-1139
Partial Derivatives With Respect to Beta	N	Beta, Configuration	1140-1163
Aileron Effect Versus Angle of Attack at Zero Beta	O		1164-1169
Partial Derivatives With Respect to Aileron Deflection	P	Alpha	1170-1174
Rudder Effect Versus Beta at 15 Degrees Alpha	M		1175-1237

TABLE V. DATA DISPLAY INDEX
(Concluded)

TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PAGES
Yaw Control Devices at 35 Degrees Alpha Comparison	M	Configuration, Canard Deflection	1238-1258
Effect of F6 Yaw Control Versus Angle of Attack	O		1259-1264

PLOTTED COEFFICIENTS SCHEDULE:

A) CN, CA, CAF, CL, CD, L/D, CLM vs. Alpha
CLM vs. CN; CL vs. CD

B) CN, CA, CLM, CAF vs. Alpha

C) CN, CA, CLM, CL, CD vs. MACH Number

D) D(CN)/D(ALPHA), D(CLM)/D(ALPHA), D(CA)/D(ALPHA), D(CL)/D(ALPHA), D(CD)/D(ALPHA) vs. ALPHA

E) CLM/CN, D(CN)/D(ALPHA), D(CLM)/D(ALPHA) vs. MACH Number

F) CN, CA, CLM, CL, CD, CLM/CN vs. ANGLE

G) ALFTRM, L/DTRM, CLTRM, CDTRM vs. MACH Number

H) $\triangle$CN, $\triangle$CA, $\triangle$CLM vs. MACH Number

I) DCN/DE, DCLMDE, DCA/DE, DCL/DE, DCD/DE VS. MACH Number

J) DCN/DC, DCLMDC, DCA/DC, DCL/DC, DCD/DC vs. ANGLE

K) DCN/DC, DCLM/DC, DCA/DC, DCL/DC, DCD/DC vs. MACH Number

L) CN, CA, CLM vs. MACH Number

M) CY, CYN, CBL, CA, CLN, CSL, CLM vs. BETA

N) CYBETA, DCLNDB, DCSLDB vs. MACH Number

O) CY, CYN, CLM, CBL, CLN, CSL vs. ALPHA

P) DCY/DA, DCYNDA, DCBLDA, DCLNDA, DCSLDA vs. MACH Number

F I G U R E S

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.

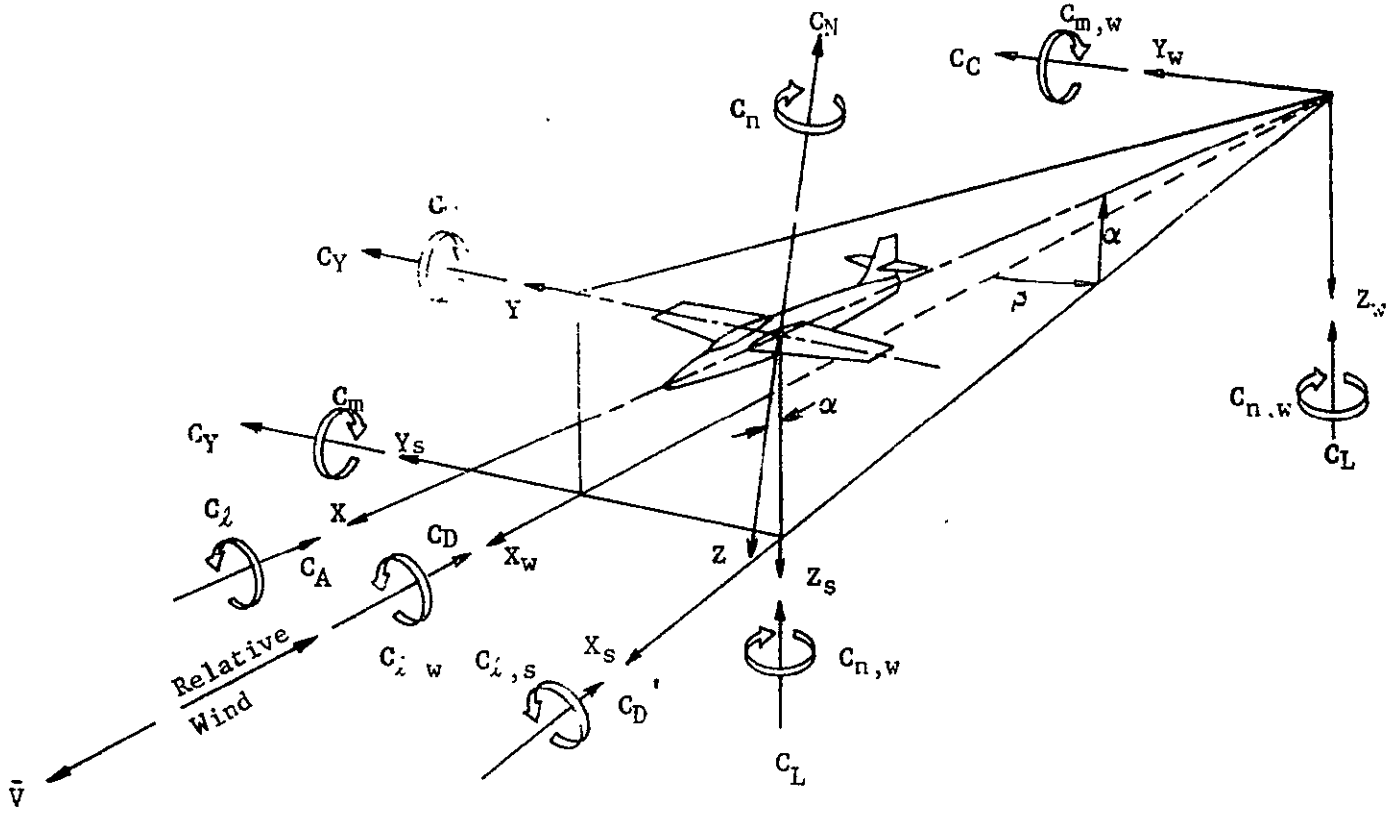


Figure 1. Axis systems, showing direction and sense of force and moment coefficients, angle of attack, and sideslip angle

Fig 2

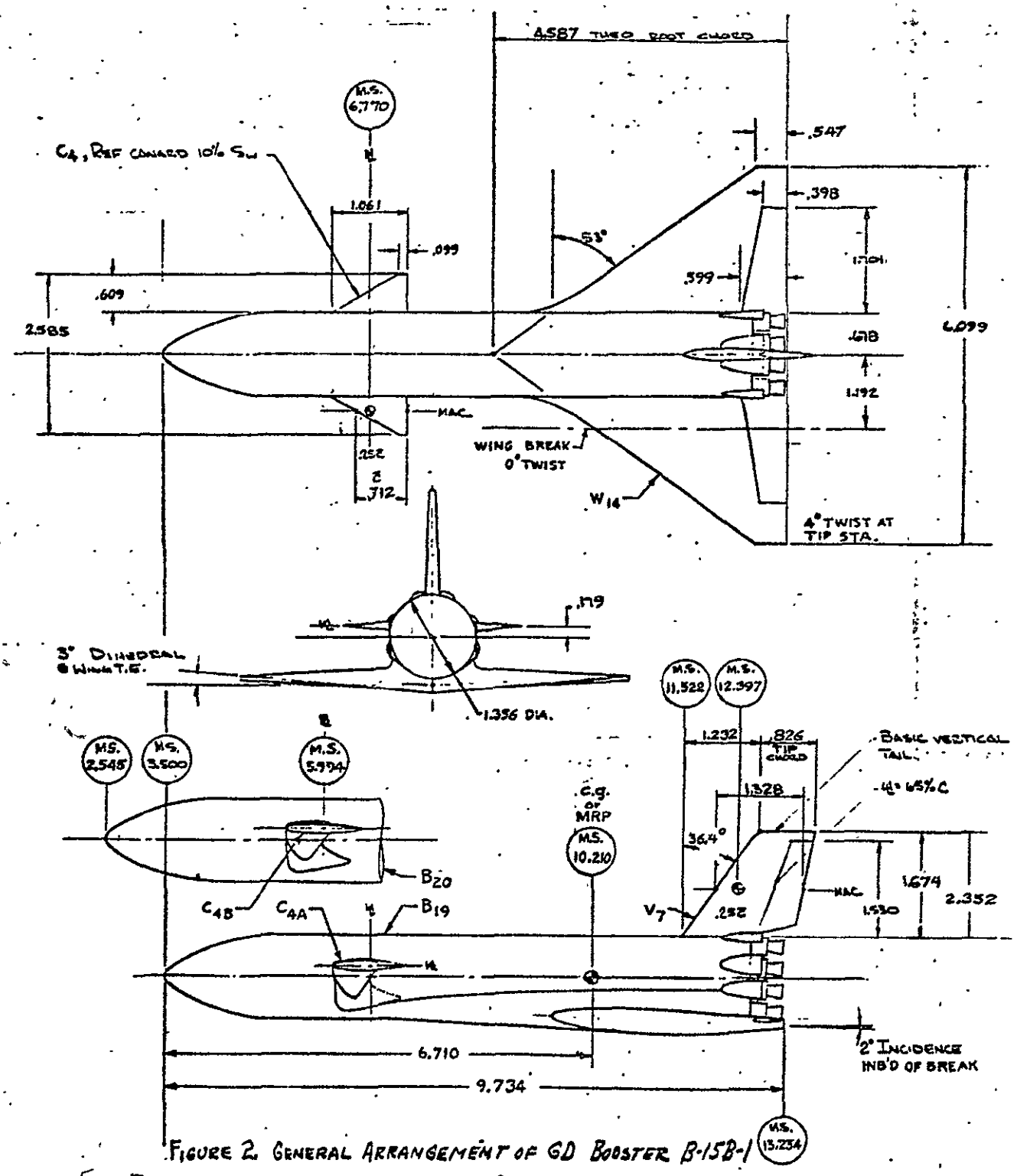


FIGURE 2. GENERAL ARRANGEMENT OF GD BOOSTER B-15B-1

F, 2

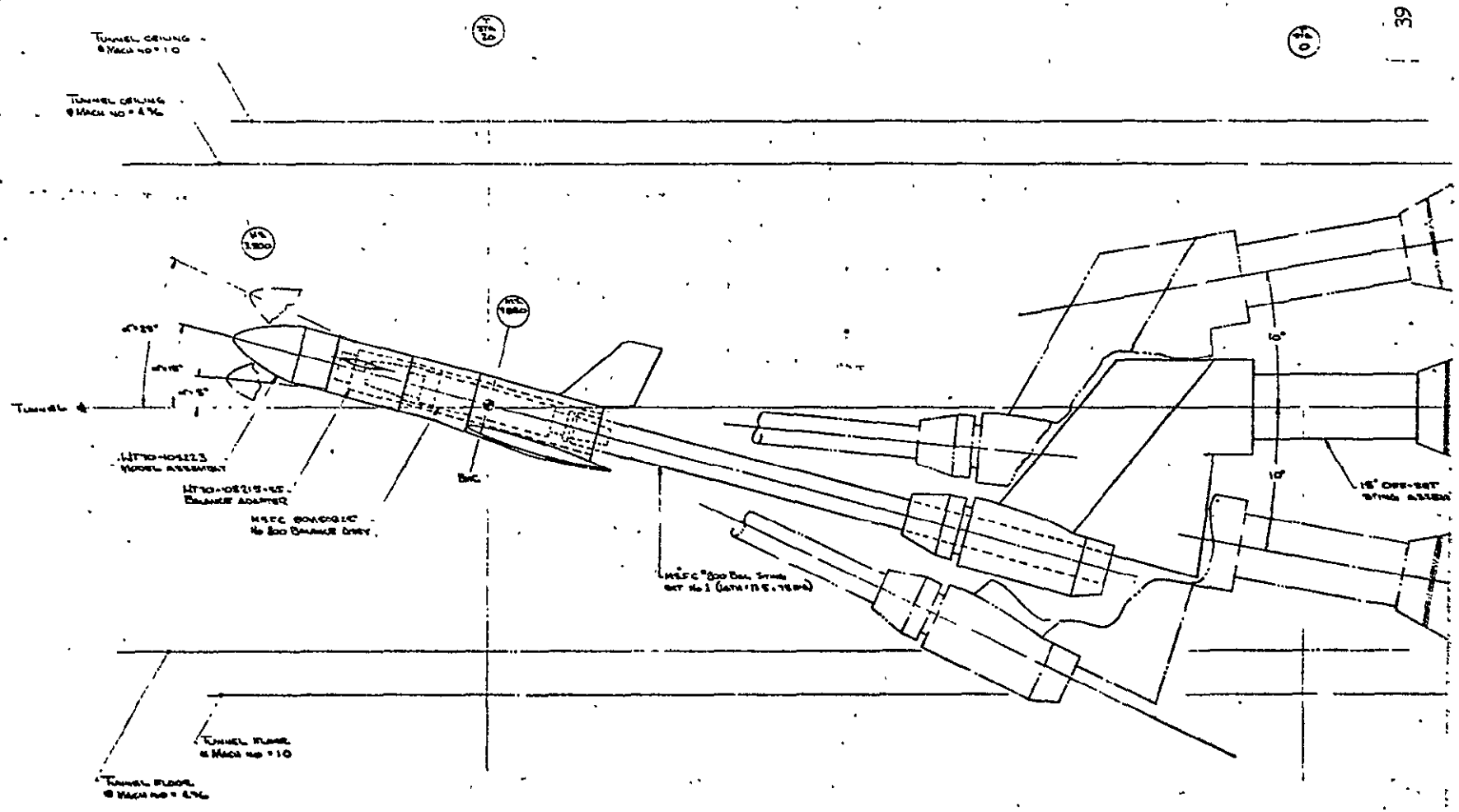


FIGURE 3. 15° OFFSET STING

$\alpha = 5° \& 25°$ TUNNEL INSTALLATION

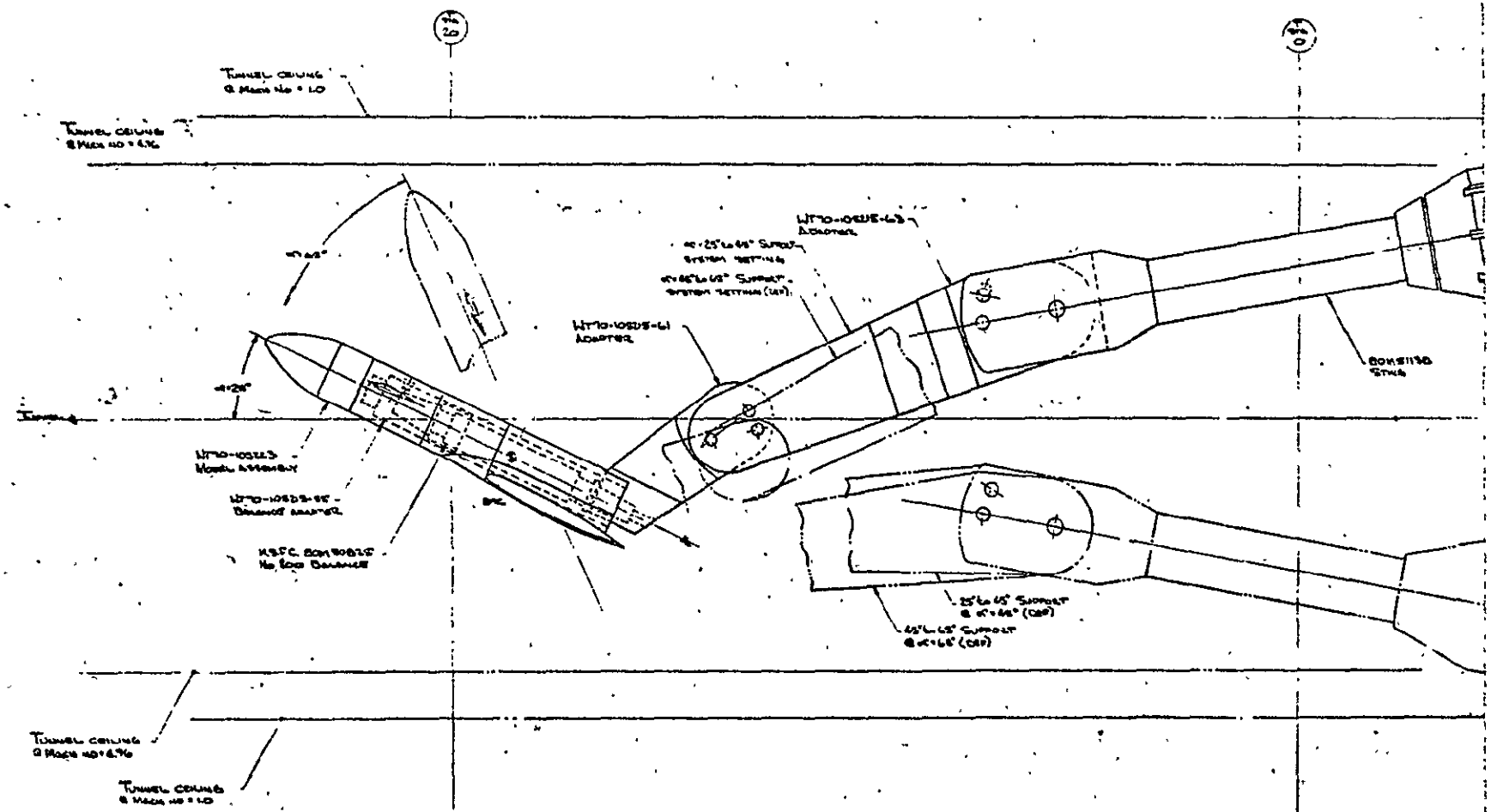


FIGURE 4. 35° AND 55° STING SETTINGS---
α = 25° TO 45° AND 45° TO 65°
TUNNEL INSTALLATION

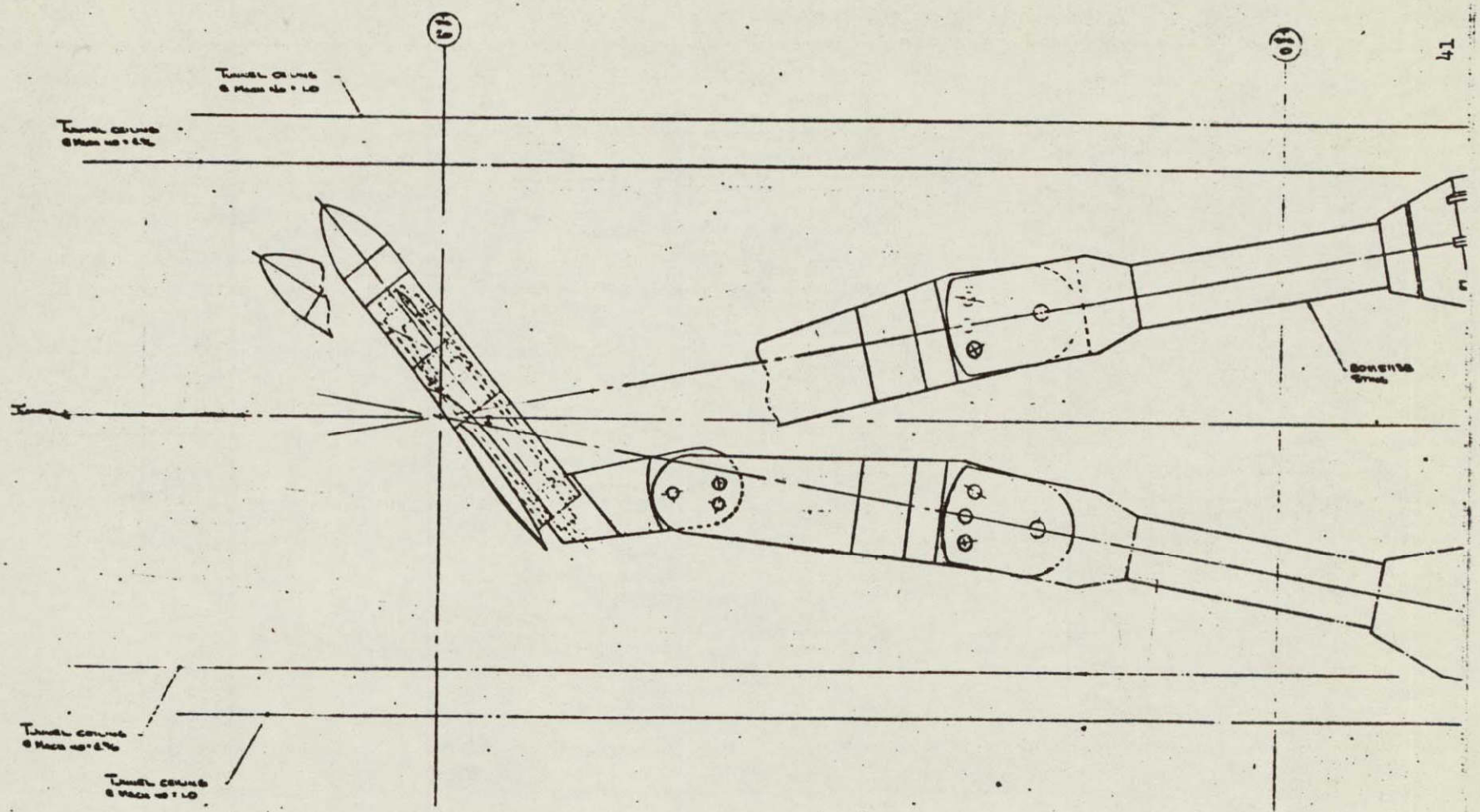


FIGURE 5. 40° STING SETTING
α = 30° TO 50°
TUNNEL INSTALLATION

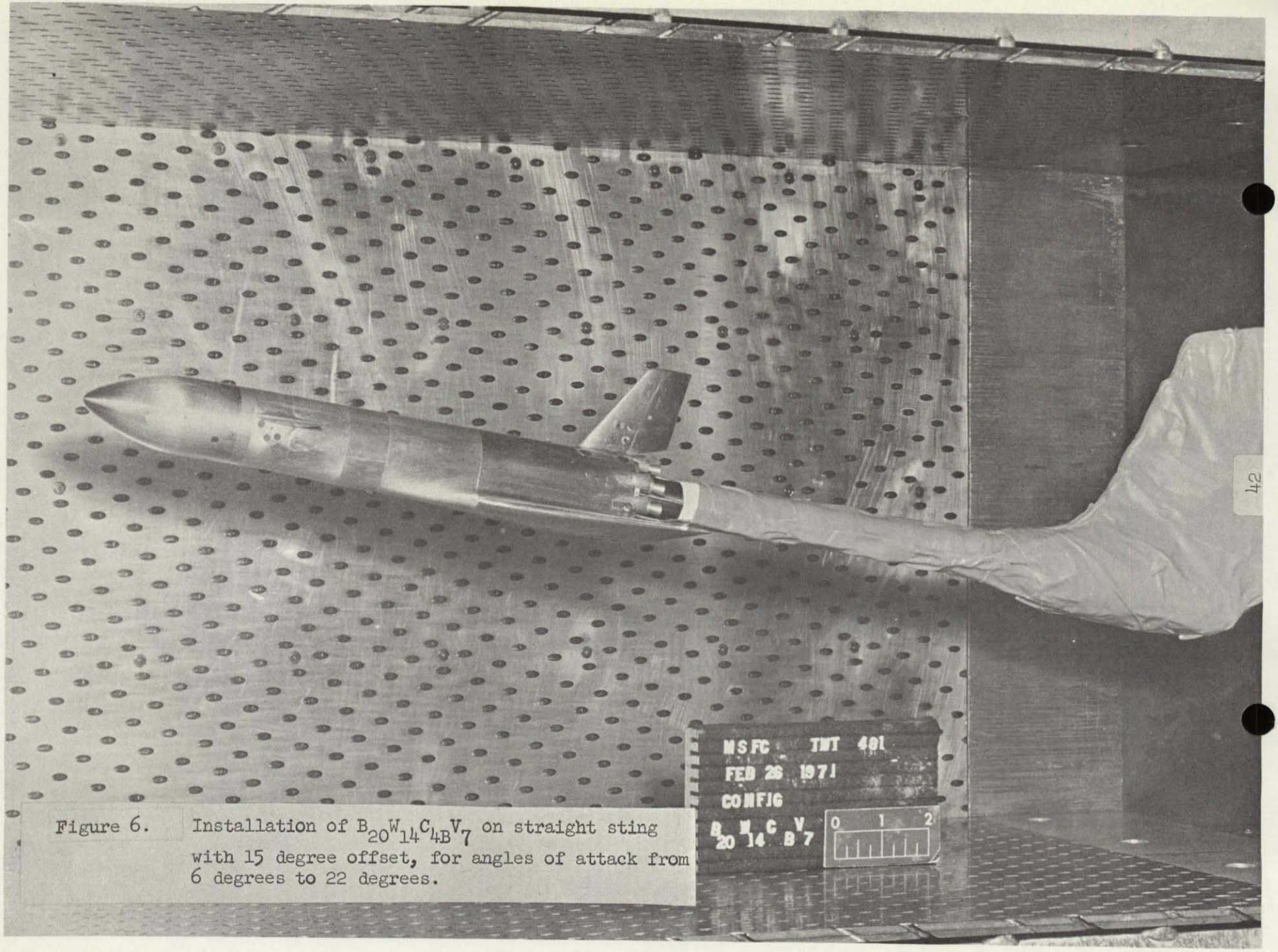


Figure 6. Installation of $B_{20}W_{14}C_{4B}V_7$ on straight sting with 15 degree offset, for angles of attack from 6 degrees to 22 degrees.

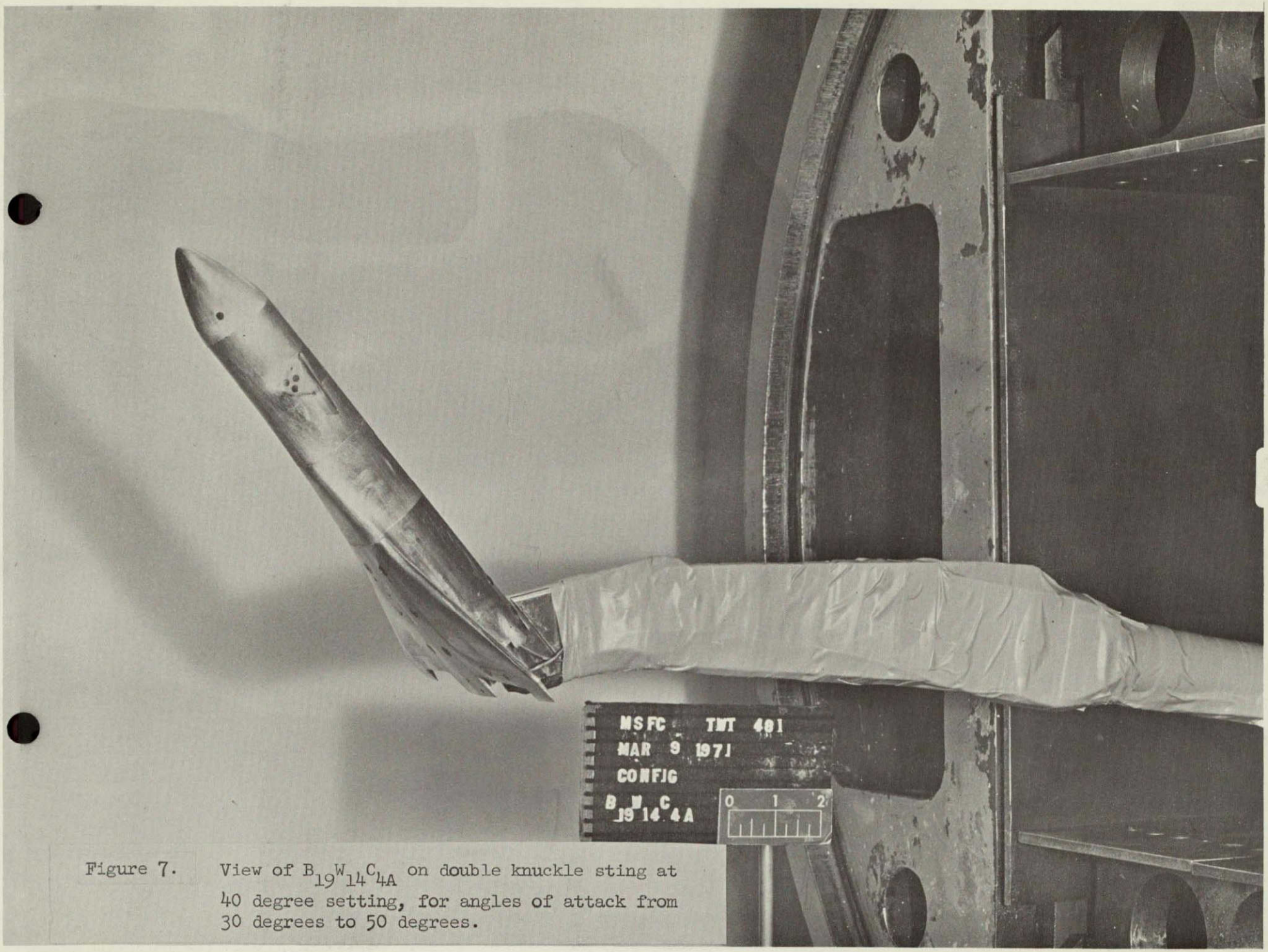


Figure 7. View of $B_{19}W_{14}C_{4A}$ on double knuckle sting at 40 degree setting, for angles of attack from 30 degrees to 50 degrees.

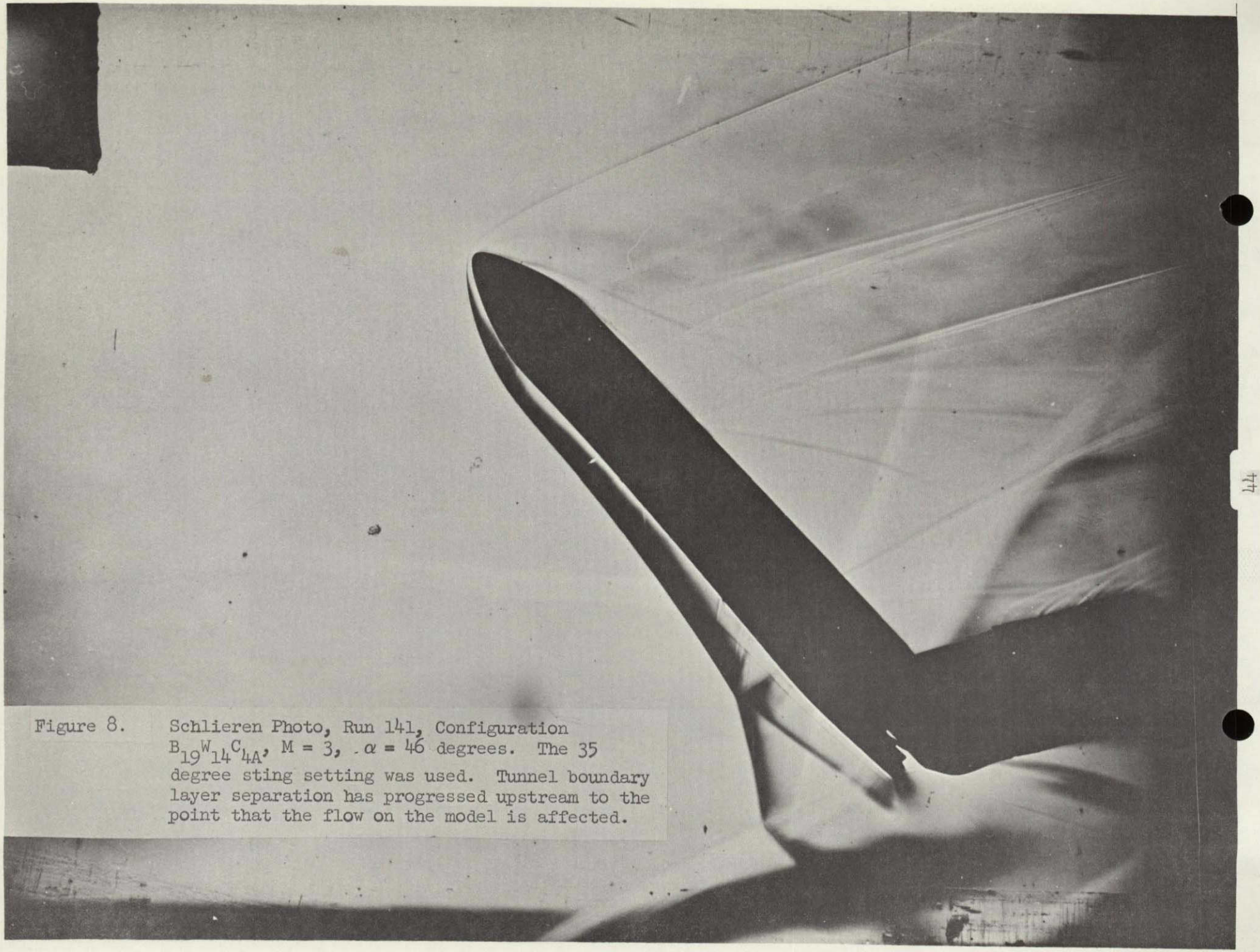


Figure 8. Schlieren Photo, Run 141, Configuration $B_{19}W_{14}C_{4A}$, M = 3, α = 46 degrees. The 35 degree sting setting was used. Tunnel boundary layer separation has progressed upstream to the point that the flow on the model is affected.

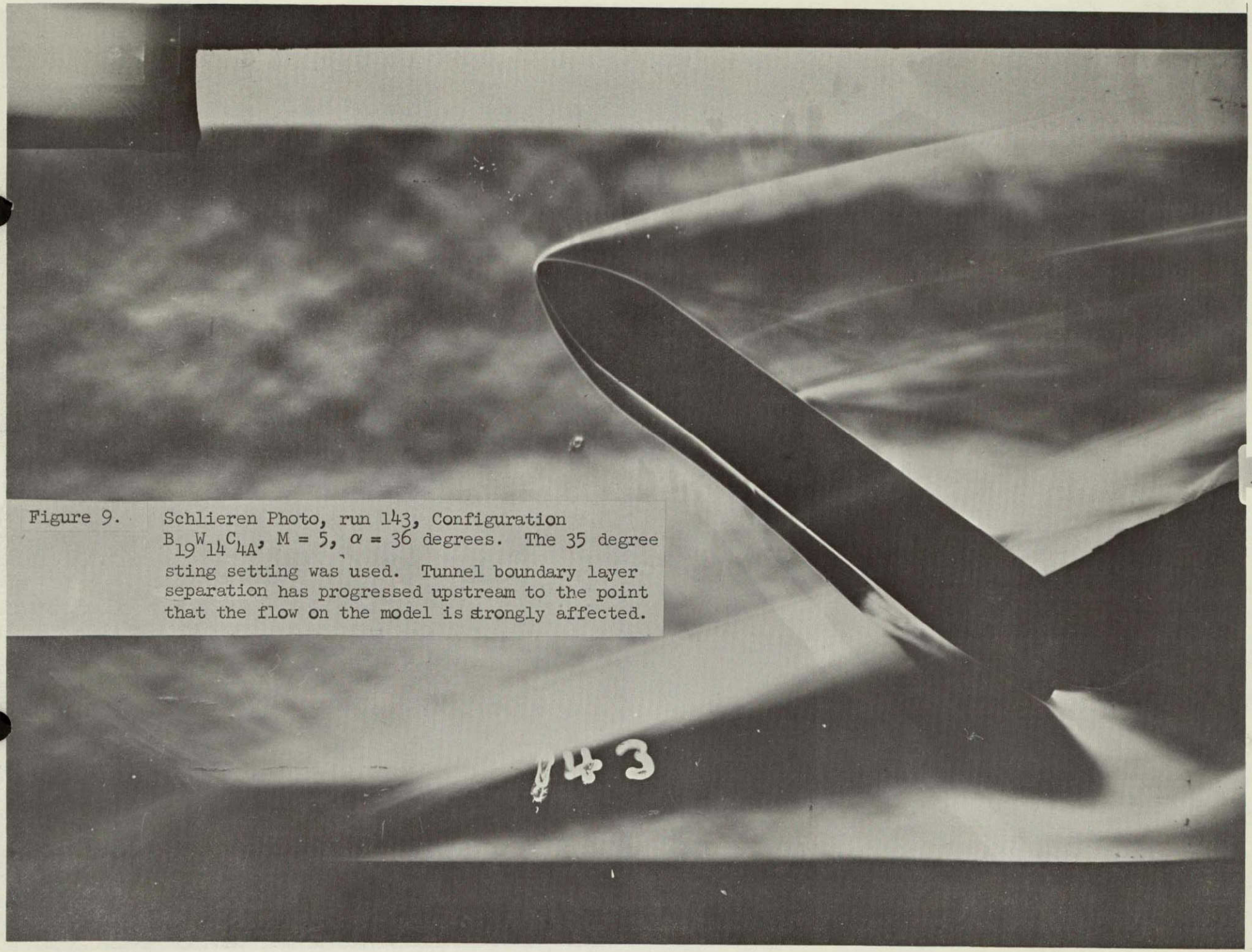


Figure 9. Schlieren Photo, run 143, Configuration $B_{19}W_{14}C_{4A}$, M = 5, α = 36 degrees. The 35 degree sting setting was used. Tunnel boundary layer separation has progressed upstream to the point that the flow on the model is strongly affected.

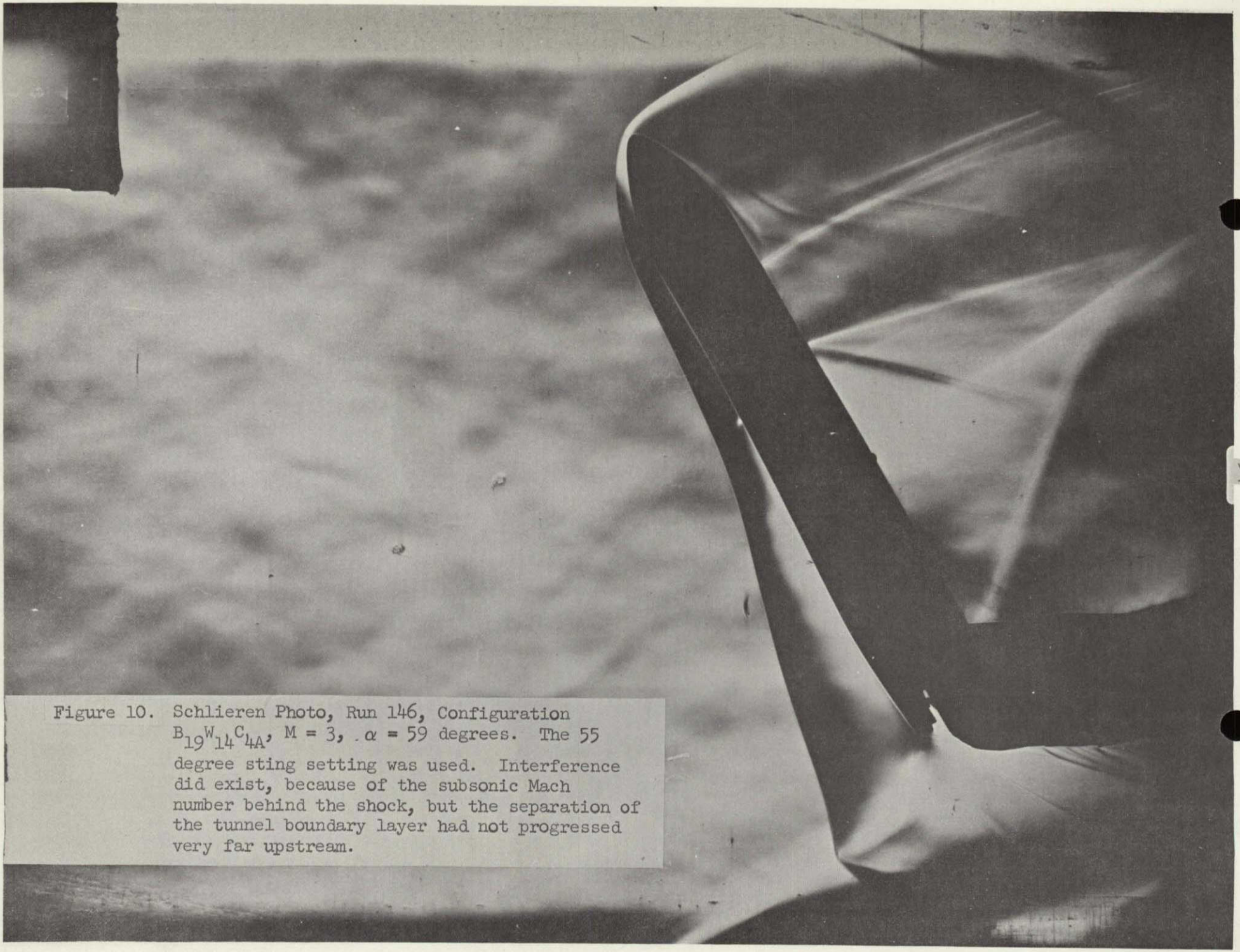


Figure 10. Schlieren Photo, Run 146, Configuration $B_{19}W_{14}C_{4A}$, M = 3, α = 59 degrees. The 55 degree sting setting was used. Interference did exist, because of the subsonic Mach number behind the shock, but the separation of the tunnel boundary layer had not progressed very far upstream.

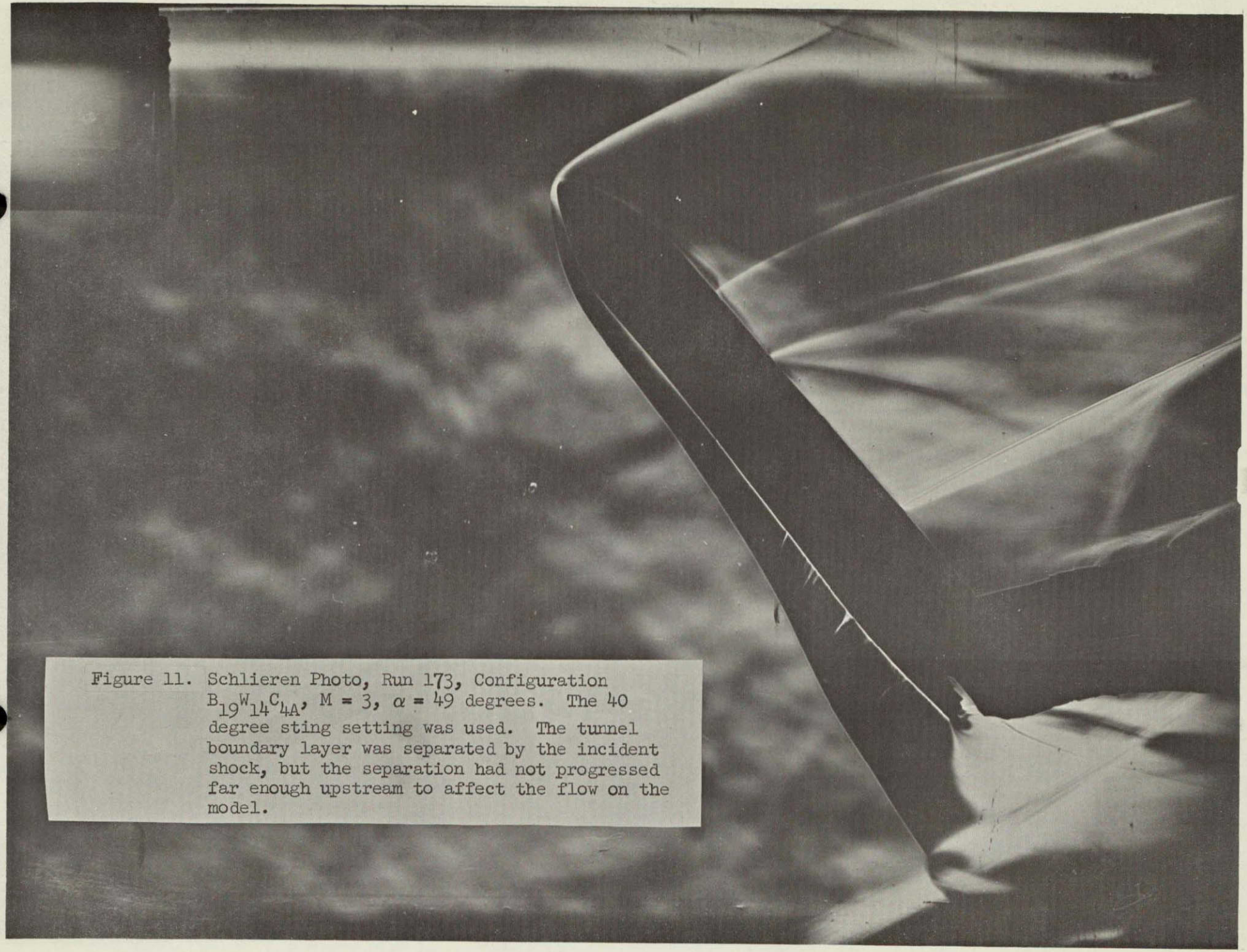


Figure 11. Schlieren Photo, Run 173, Configuration $B_{19}W_{14}C_{4A}$, M = 3, α = 49 degrees. The 40 degree sting setting was used. The tunnel boundary layer was separated by the incident shock, but the separation had not progressed far enough upstream to affect the flow on the model.

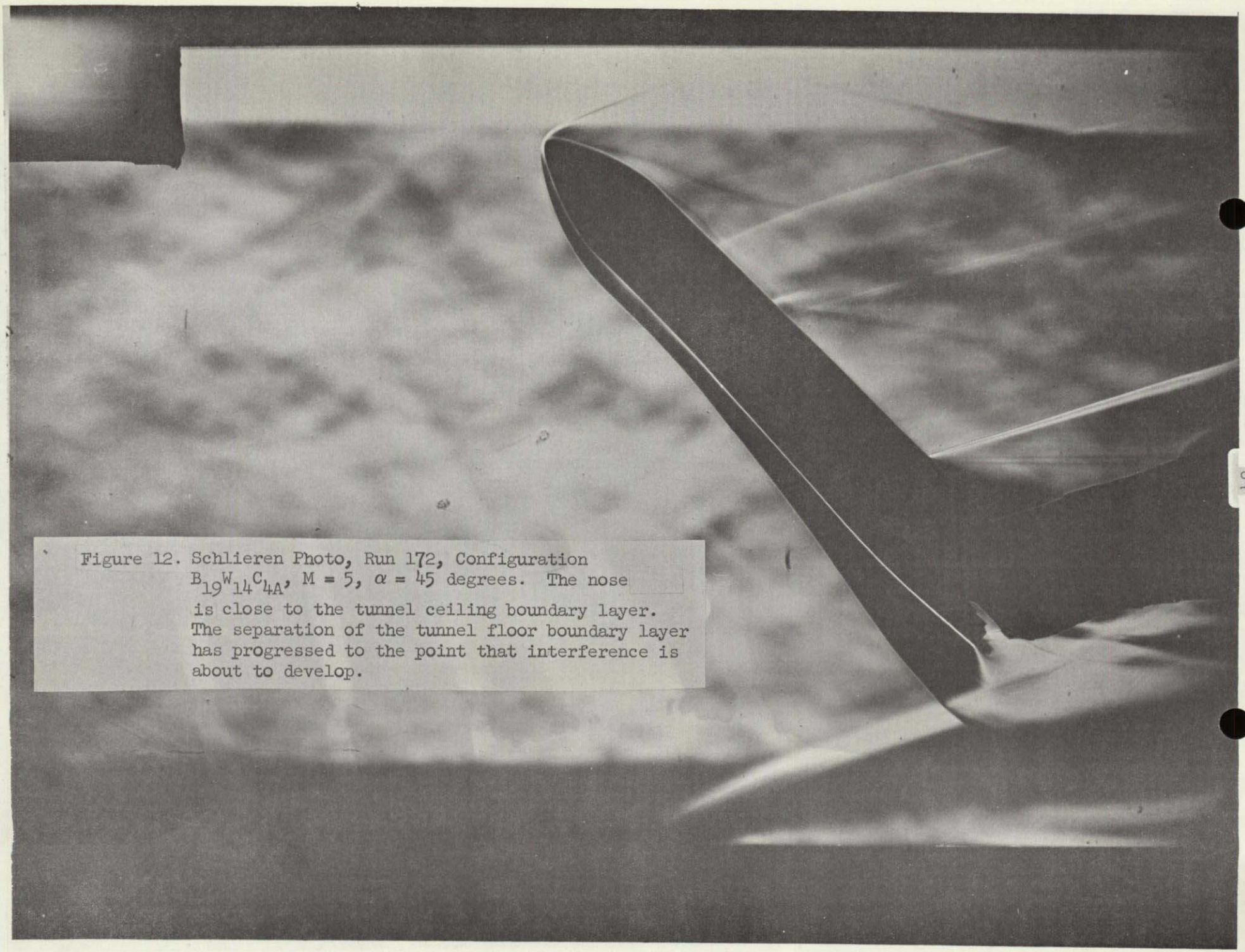


Figure 12. Schlieren Photo, Run 172, Configuration $B_{19}W_{14}C_{4A}$, M = 5, α = 45 degrees. The nose is close to the tunnel ceiling boundary layer. The separation of the tunnel floor boundary layer has progressed to the point that interference is about to develop.

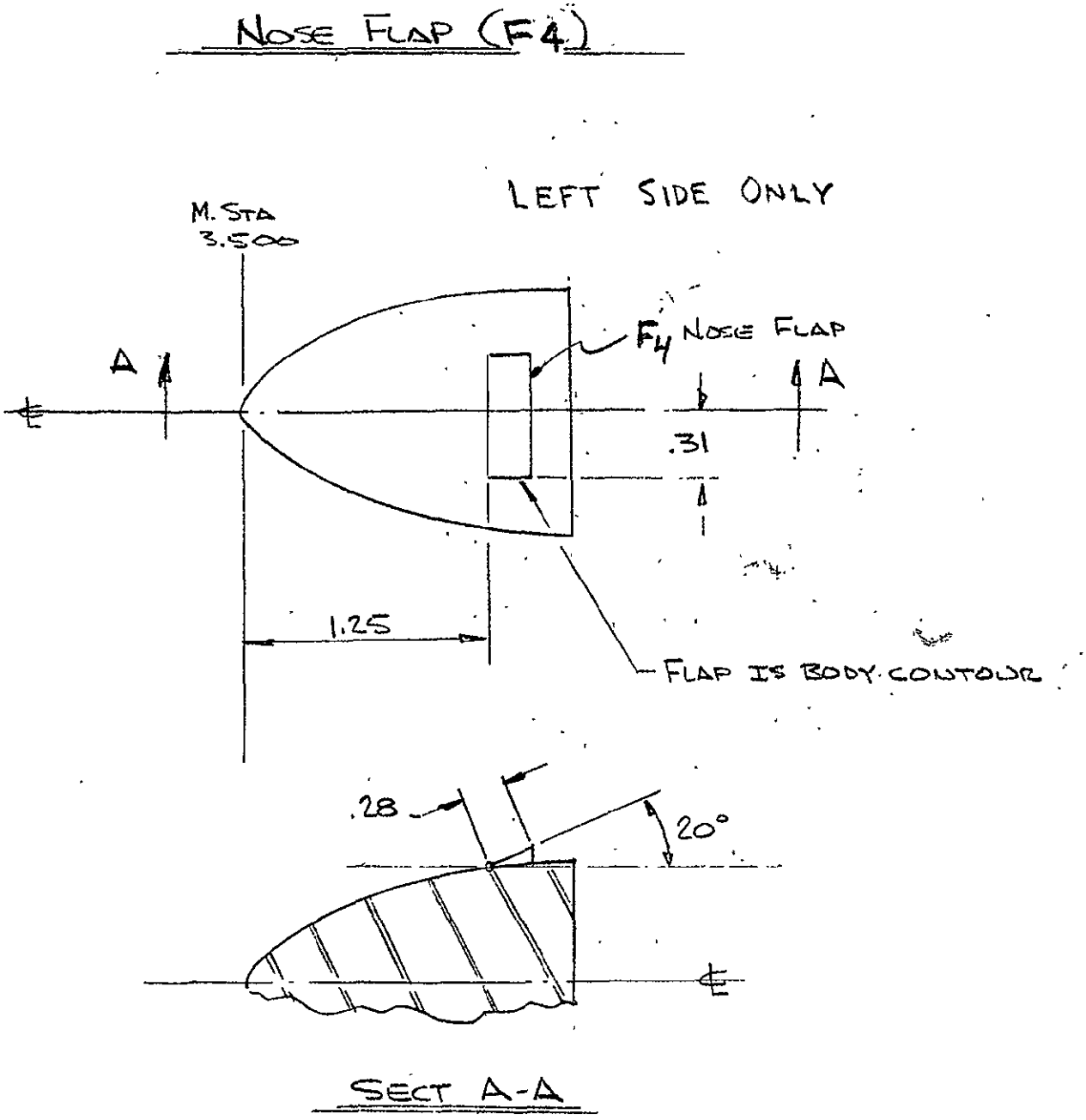
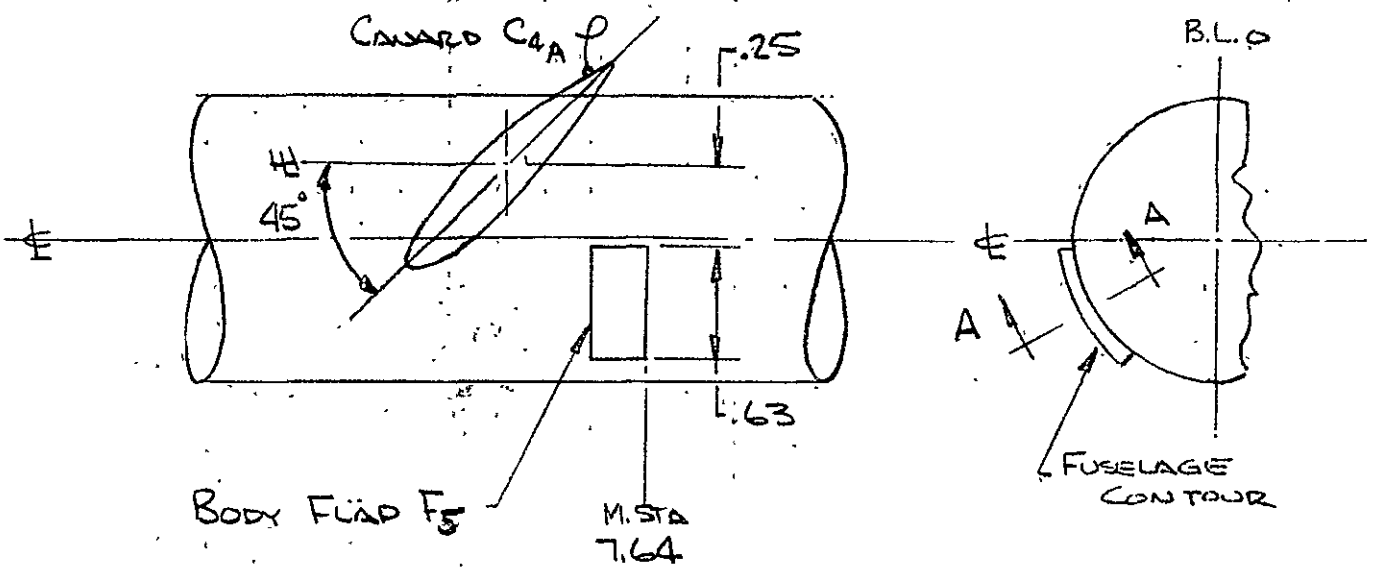
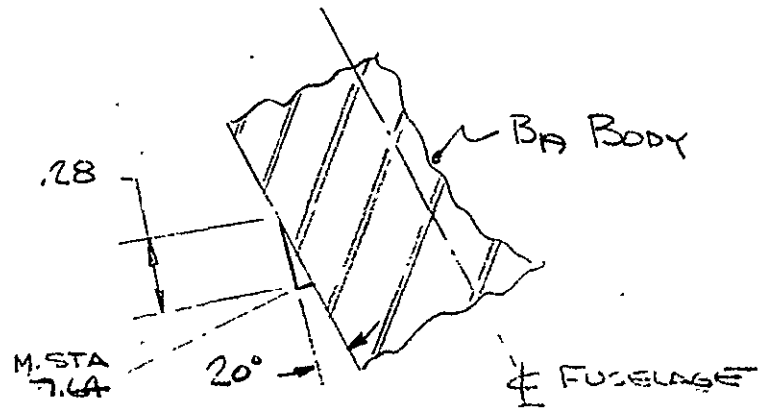


FIGURE 13. NOSE FLAP F4

BODY FLAP (F5)



LEFT SIDE ONLY



SECT A-A

FIGURE 14. BODY FLAP F5

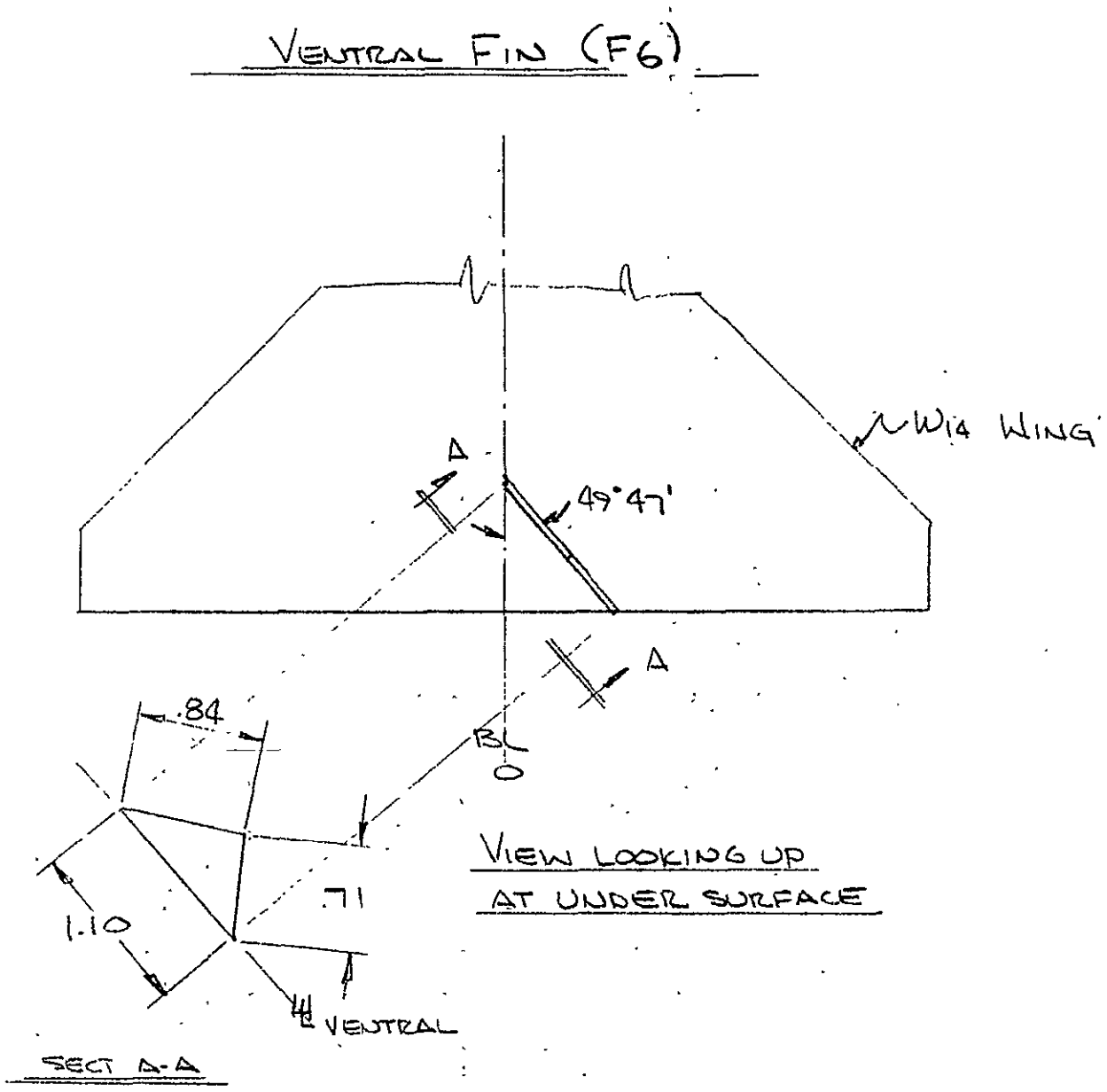


FIGURE 15. VENTRAL FIN F6

C_4. CANARD WITH SPLIT TRAILING EDGE (C4S)

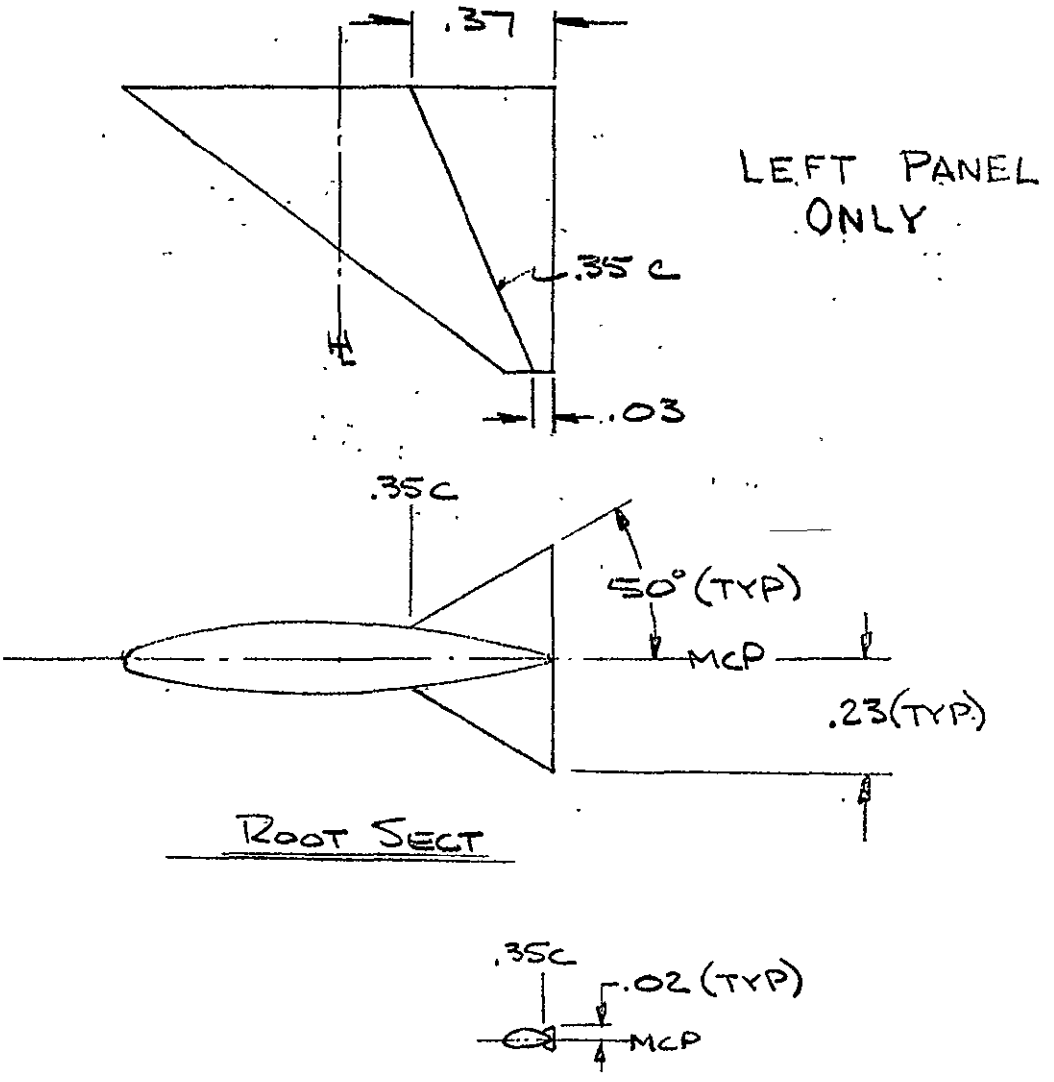


FIGURE 16. C4 CANARD WITH SPLIT TRAILING EDGE CHS

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 MSFC	Mr. J. Weaver
GD/C	Mr. R. Lanflisi

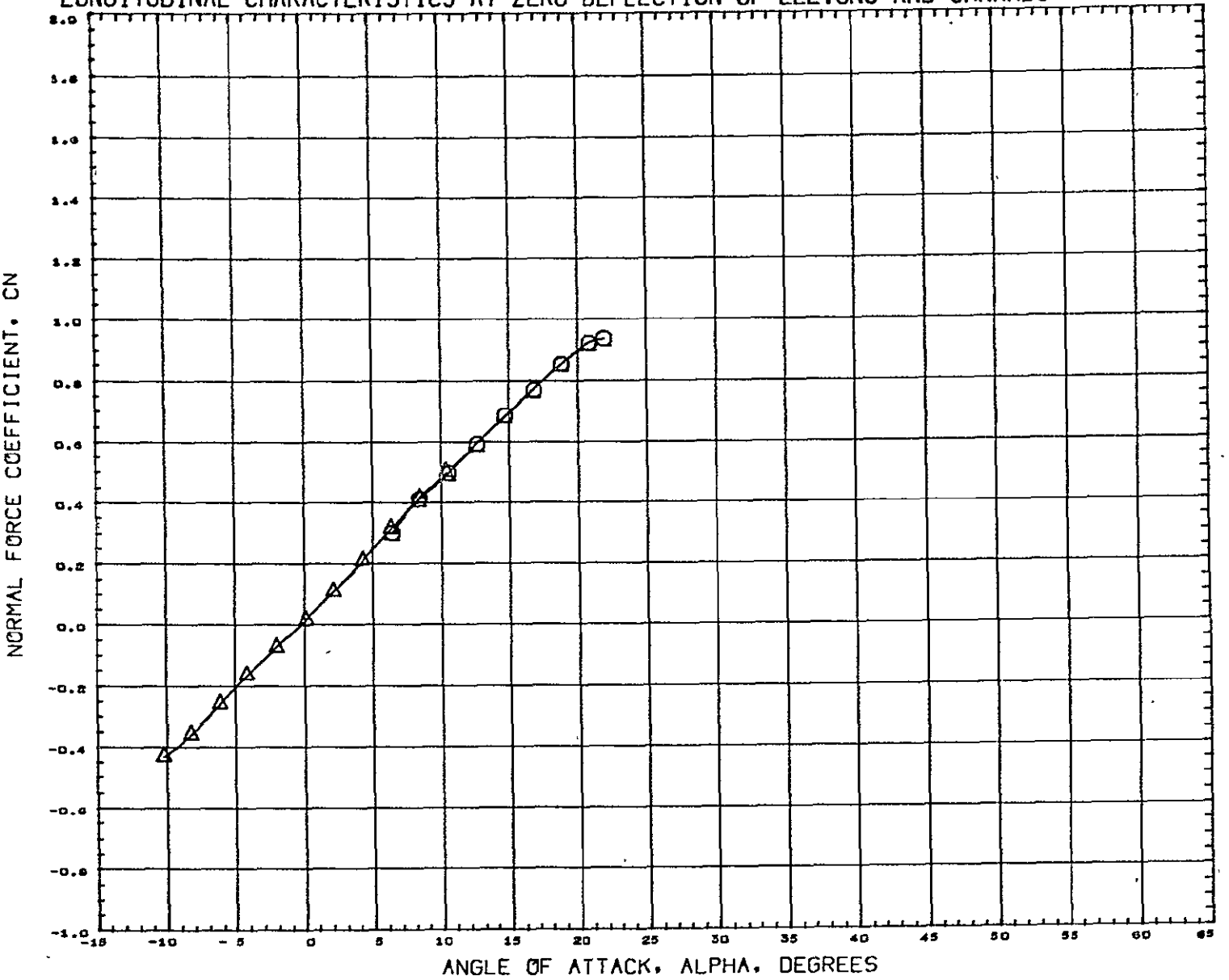
If copies of this listing are desired, please contact the above or the cognizant SADSAC personnel who, for this data, is:

Albert D. Martin
SADSAC/Dept. 2780
Chrysler Corporation Space Division
New Orleans, La. 70129

(504) 255-2304

DATA

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

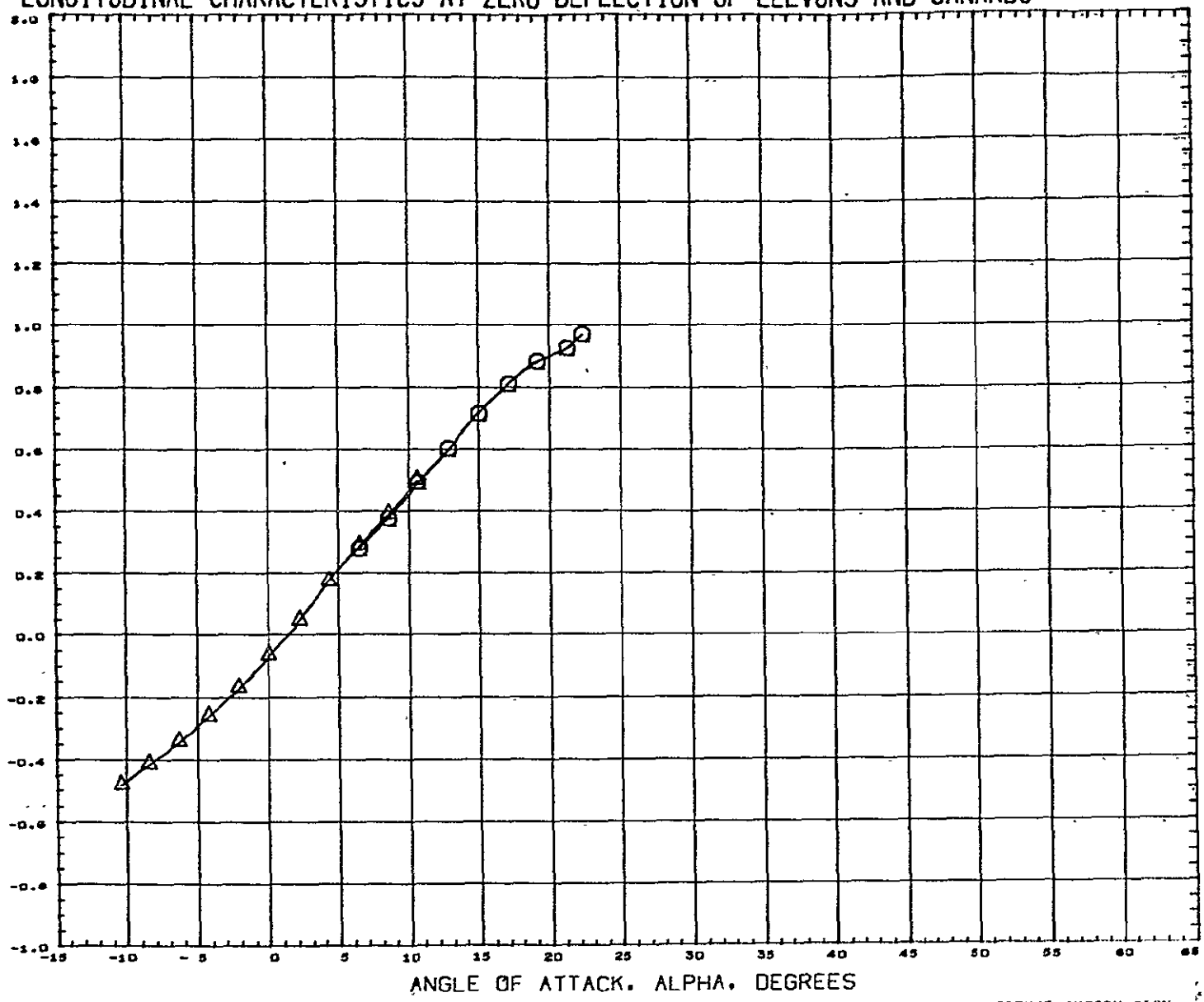


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C20D1)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E20B20)	△	MSFC 461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E20C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

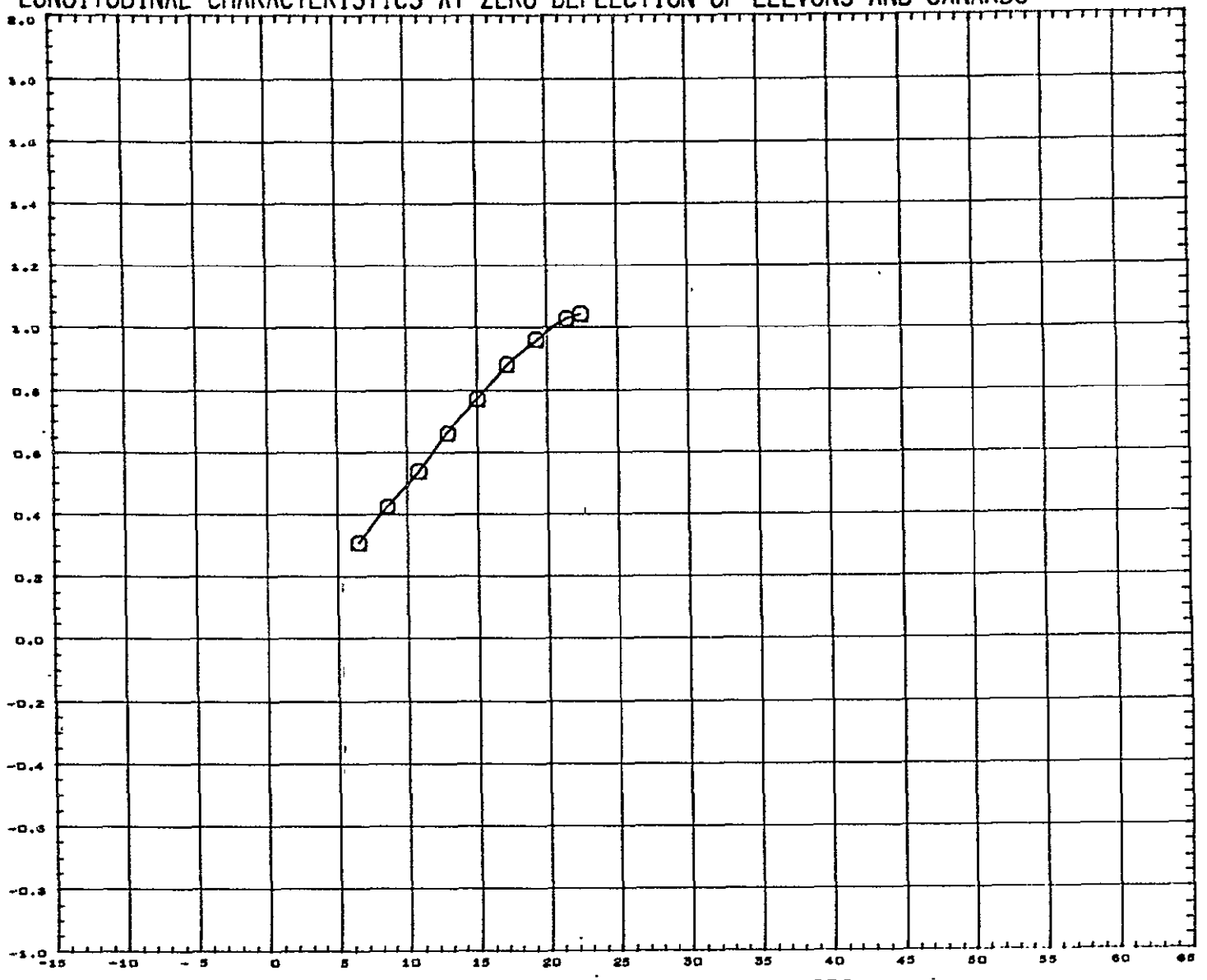


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28020)	△	MSFC 401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.900

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



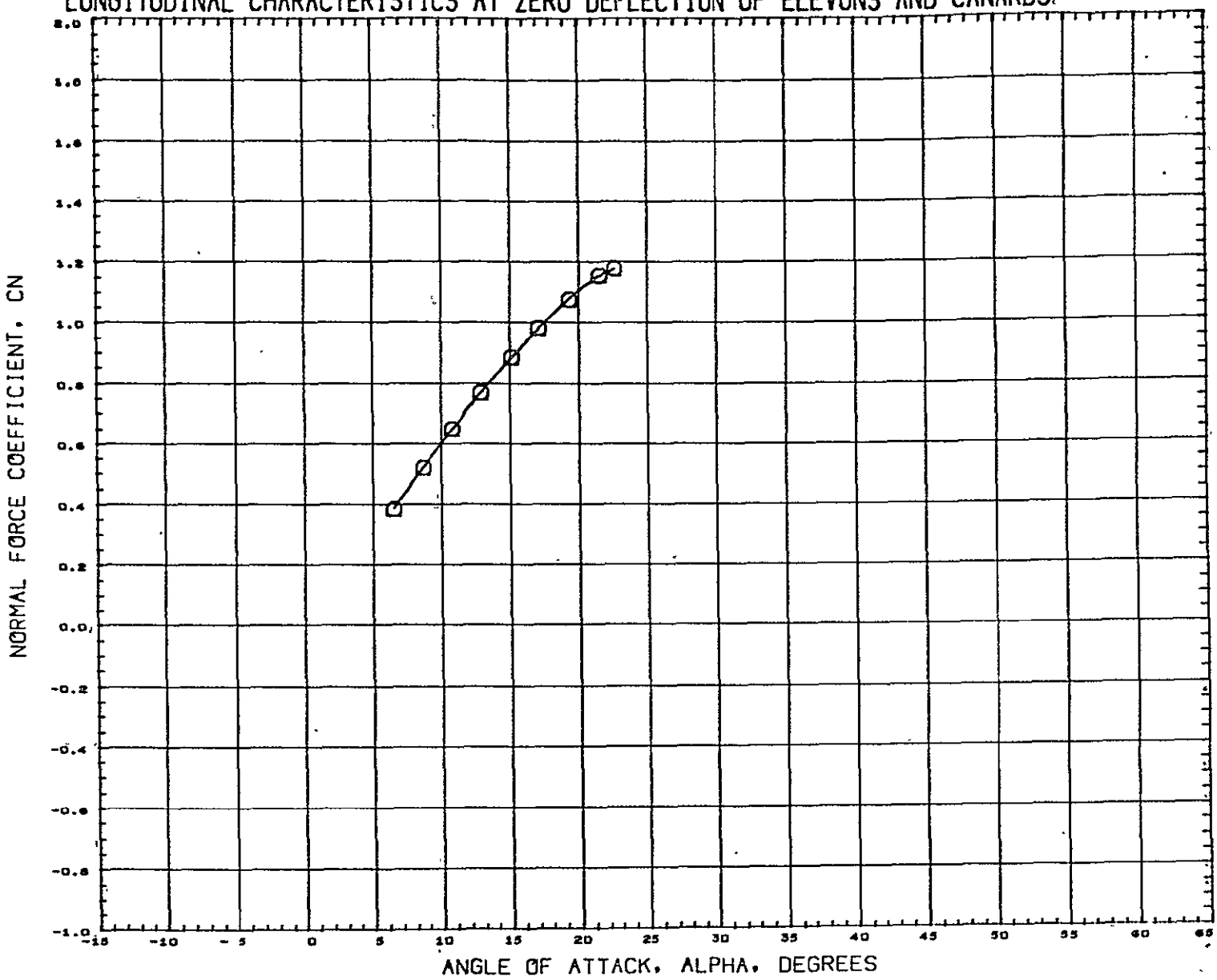
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E28020)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.954

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS.



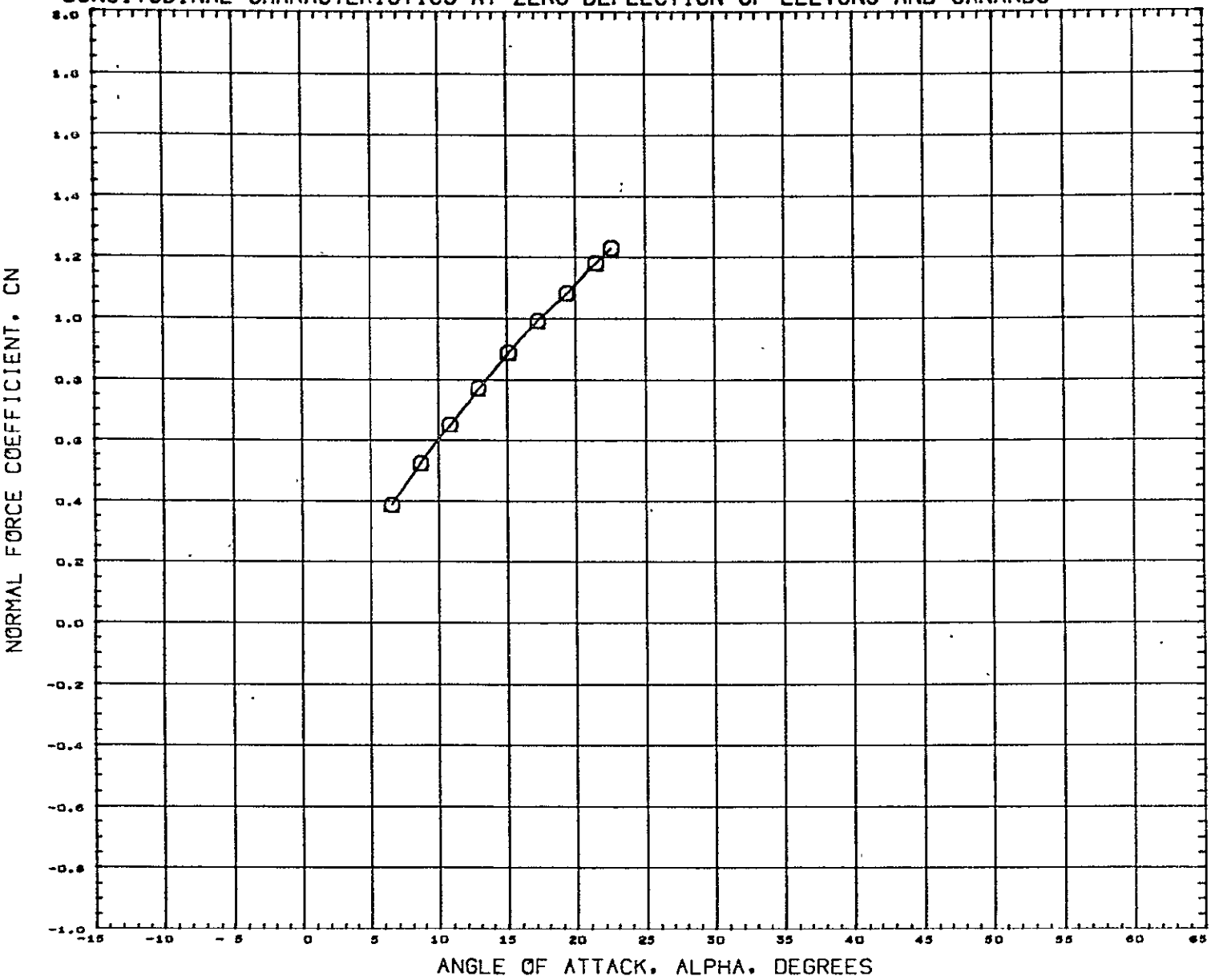
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
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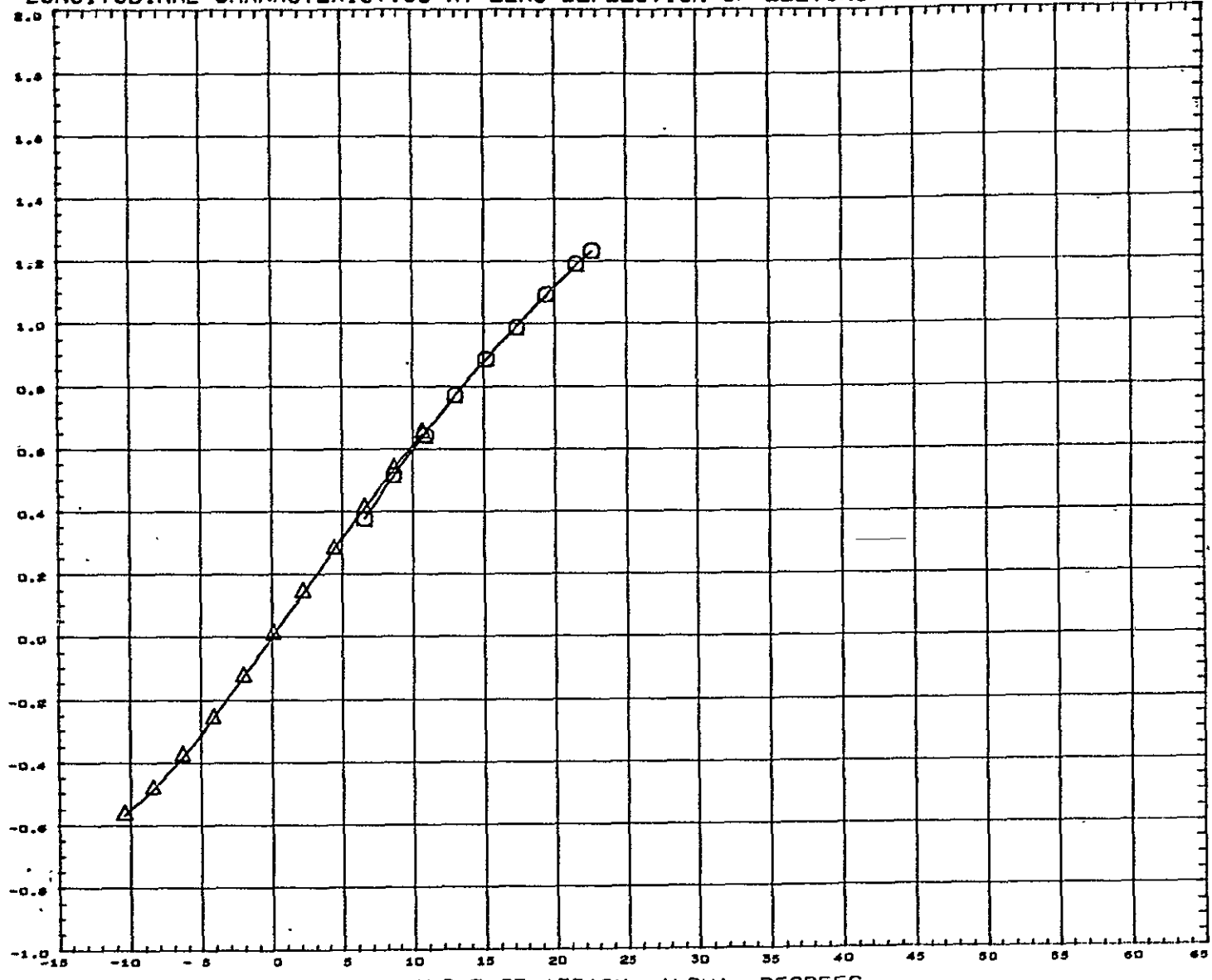
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

BETA	ELEVON	CANARD	RUDDER
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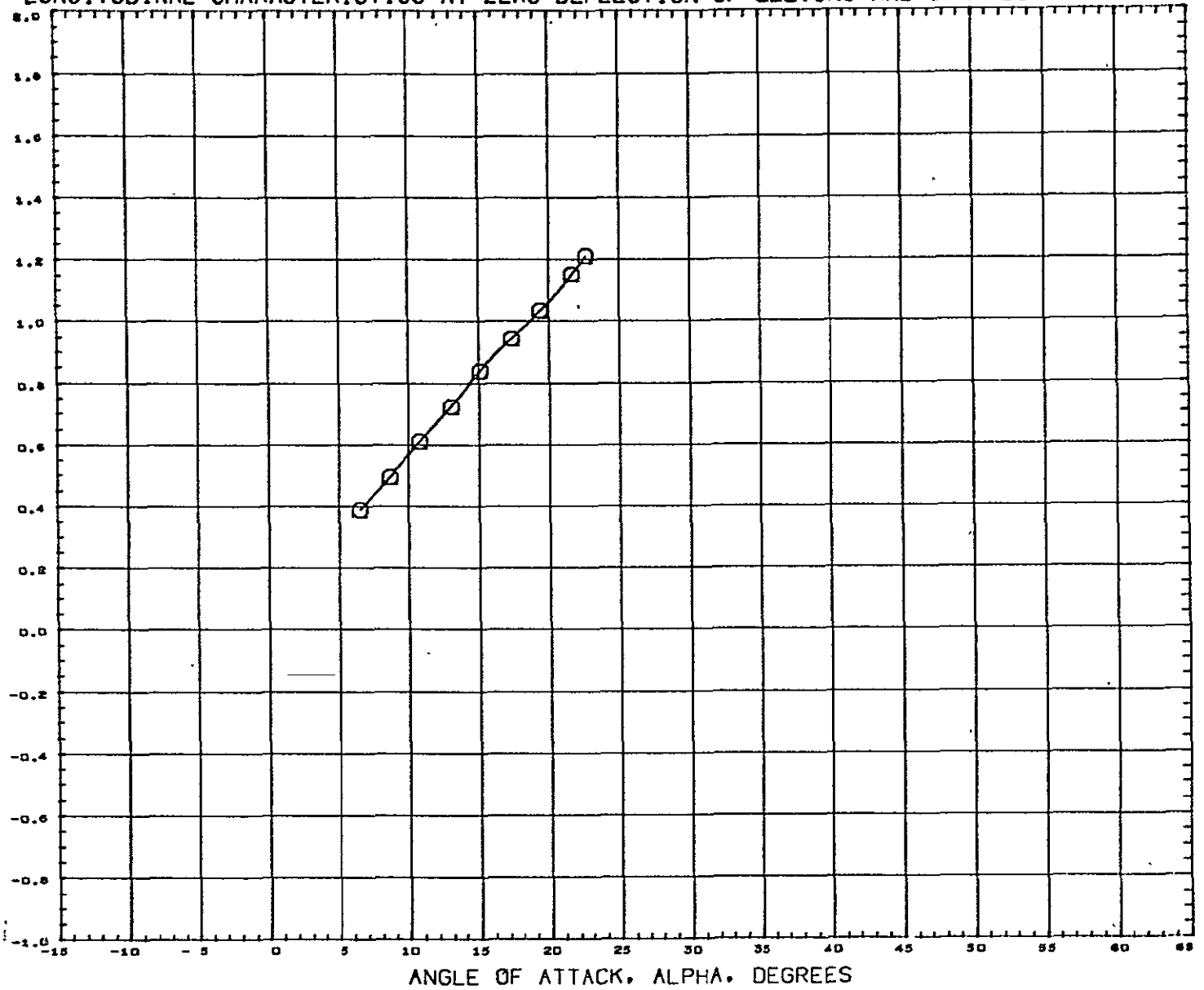
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.105

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

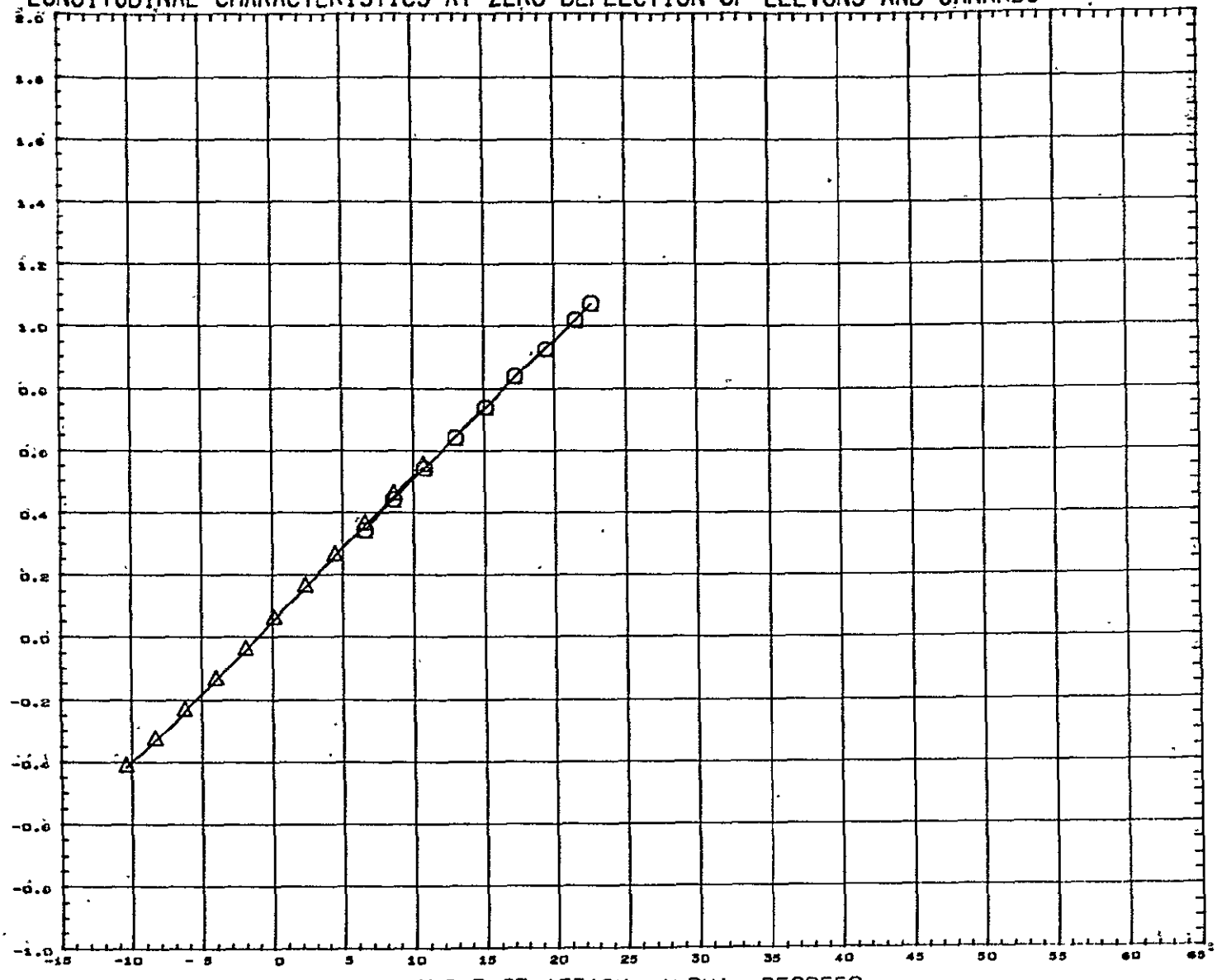


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

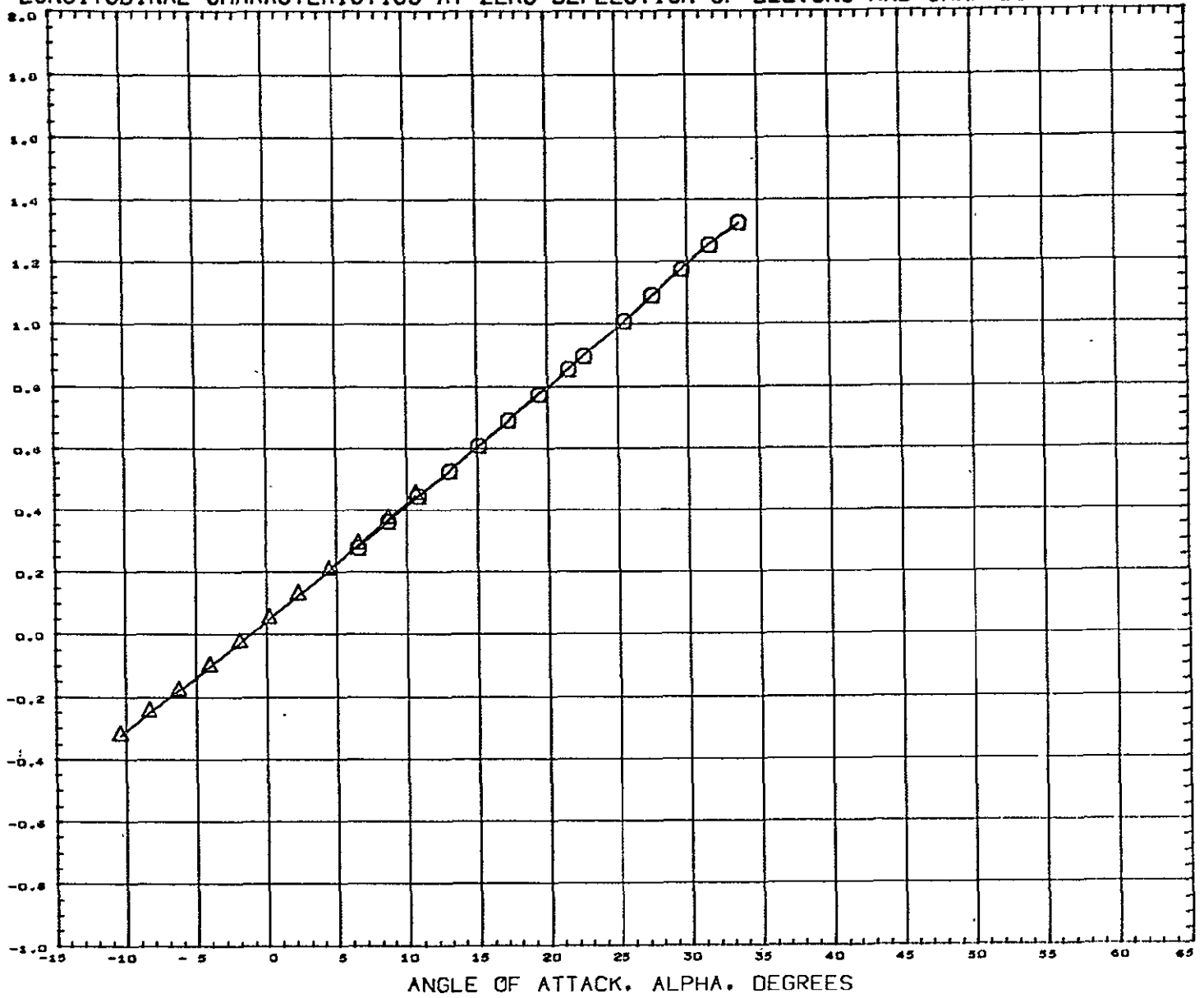


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.462

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

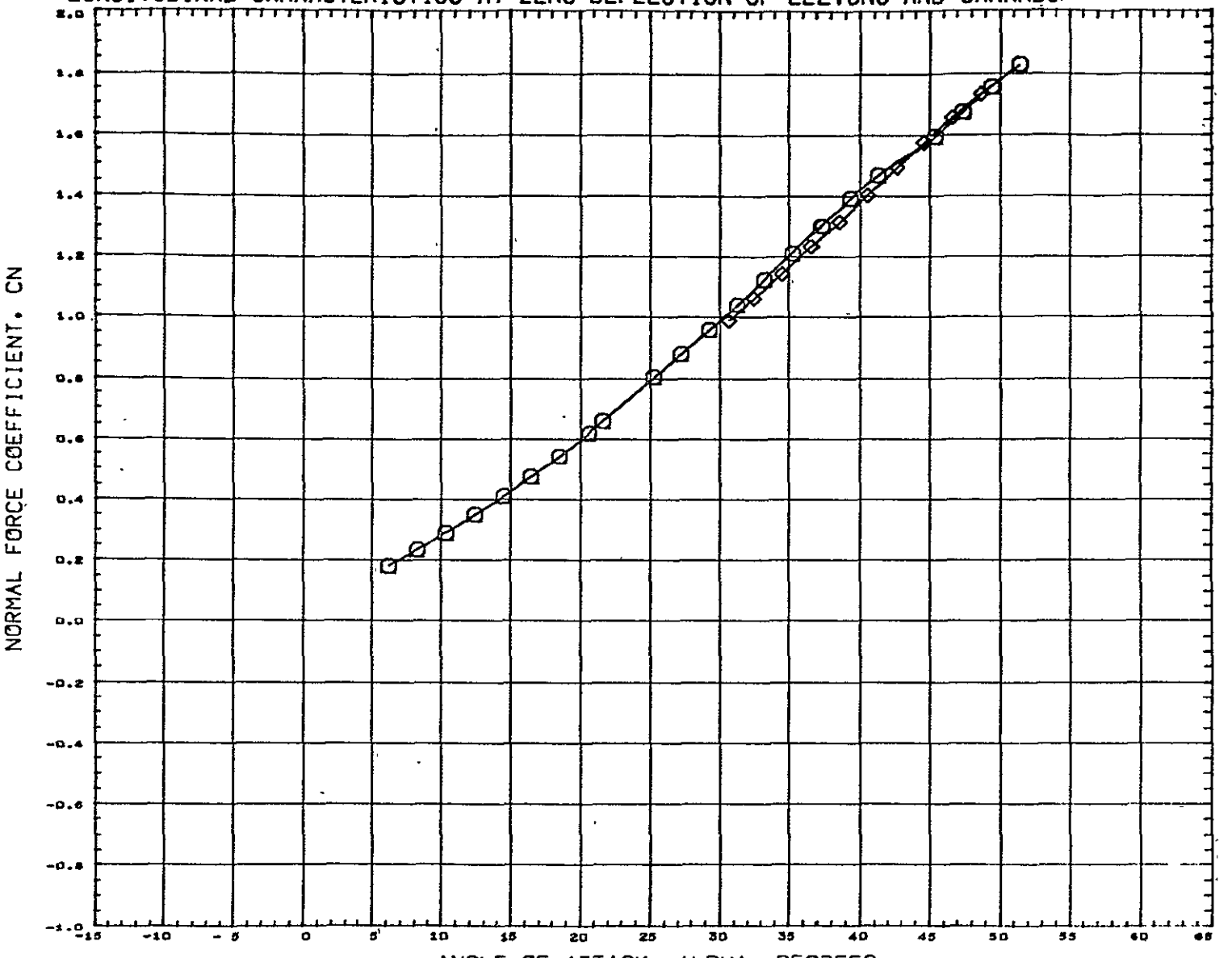


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

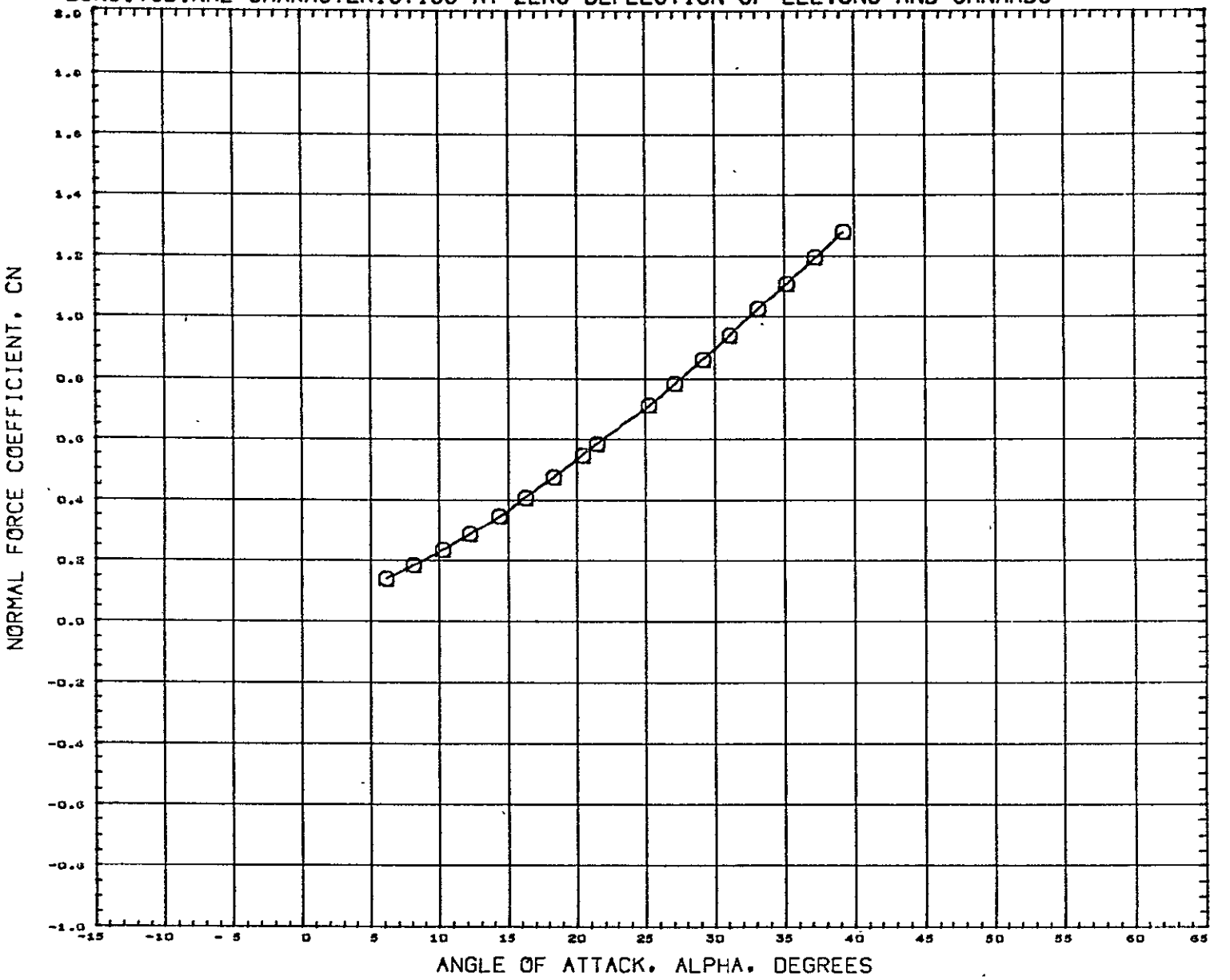


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	☒	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	MSFC461 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.0360	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

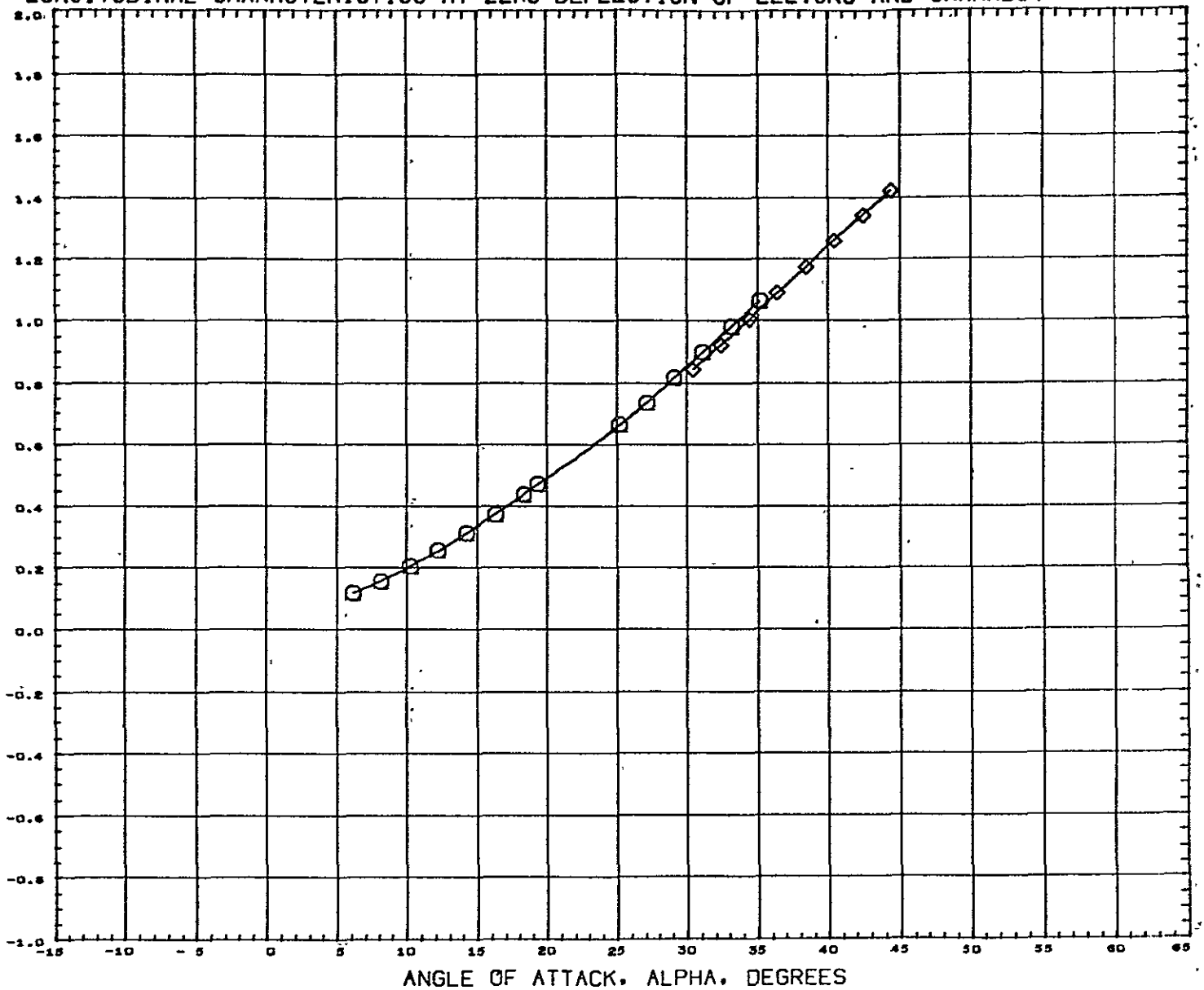


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C20D01)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E20B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E20C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.000

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS.

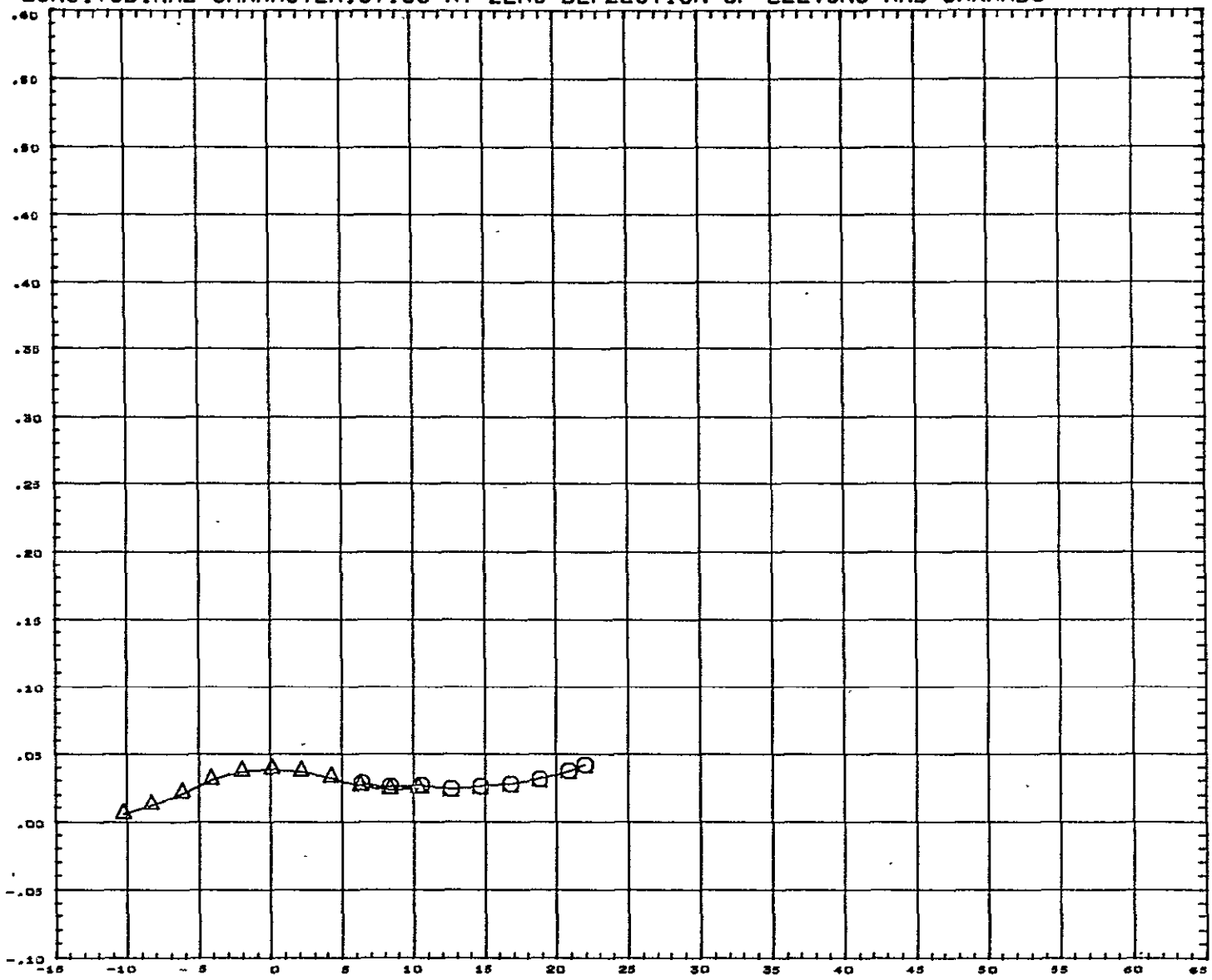


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
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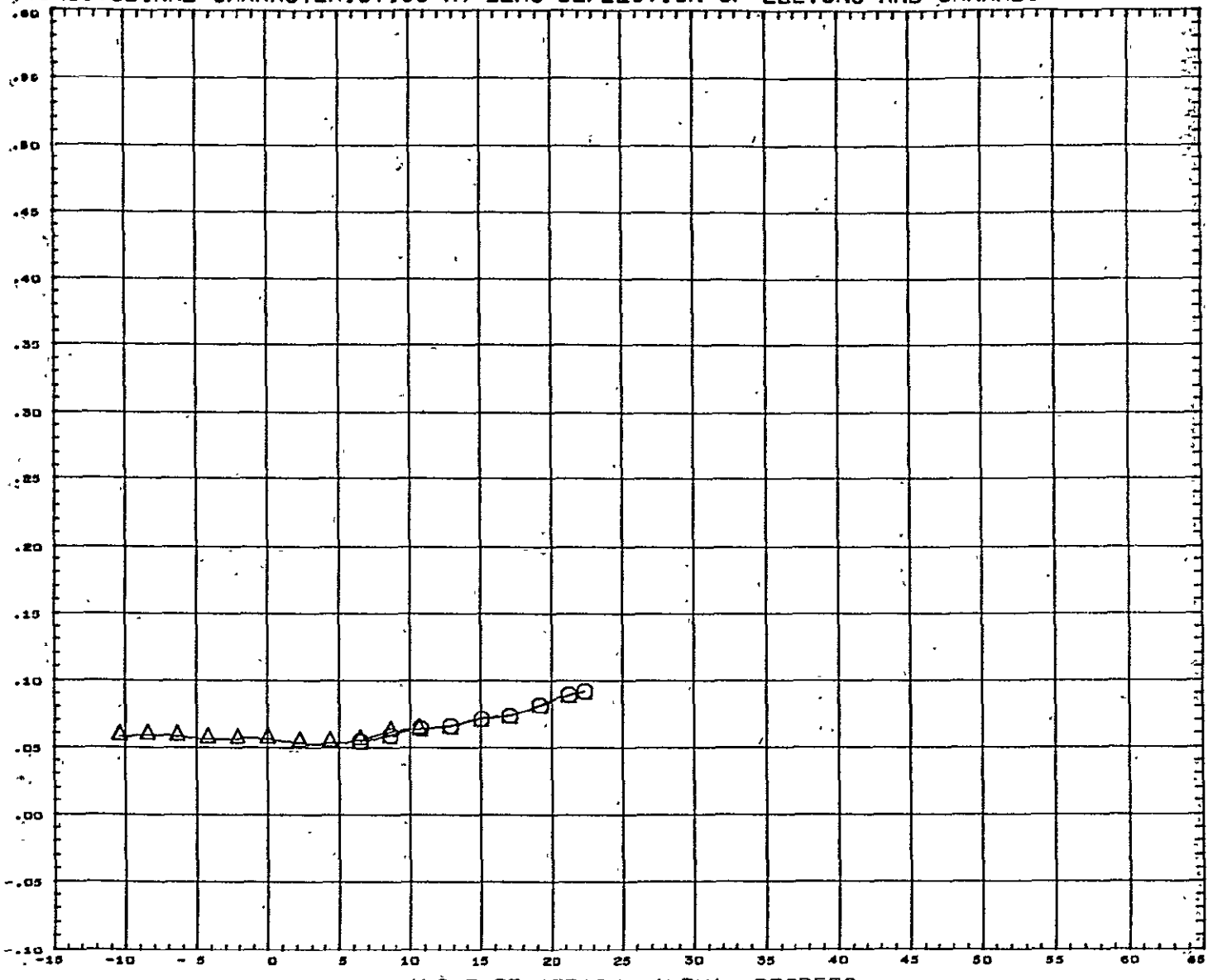
(E28B20)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28020)	△	MSFC 461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
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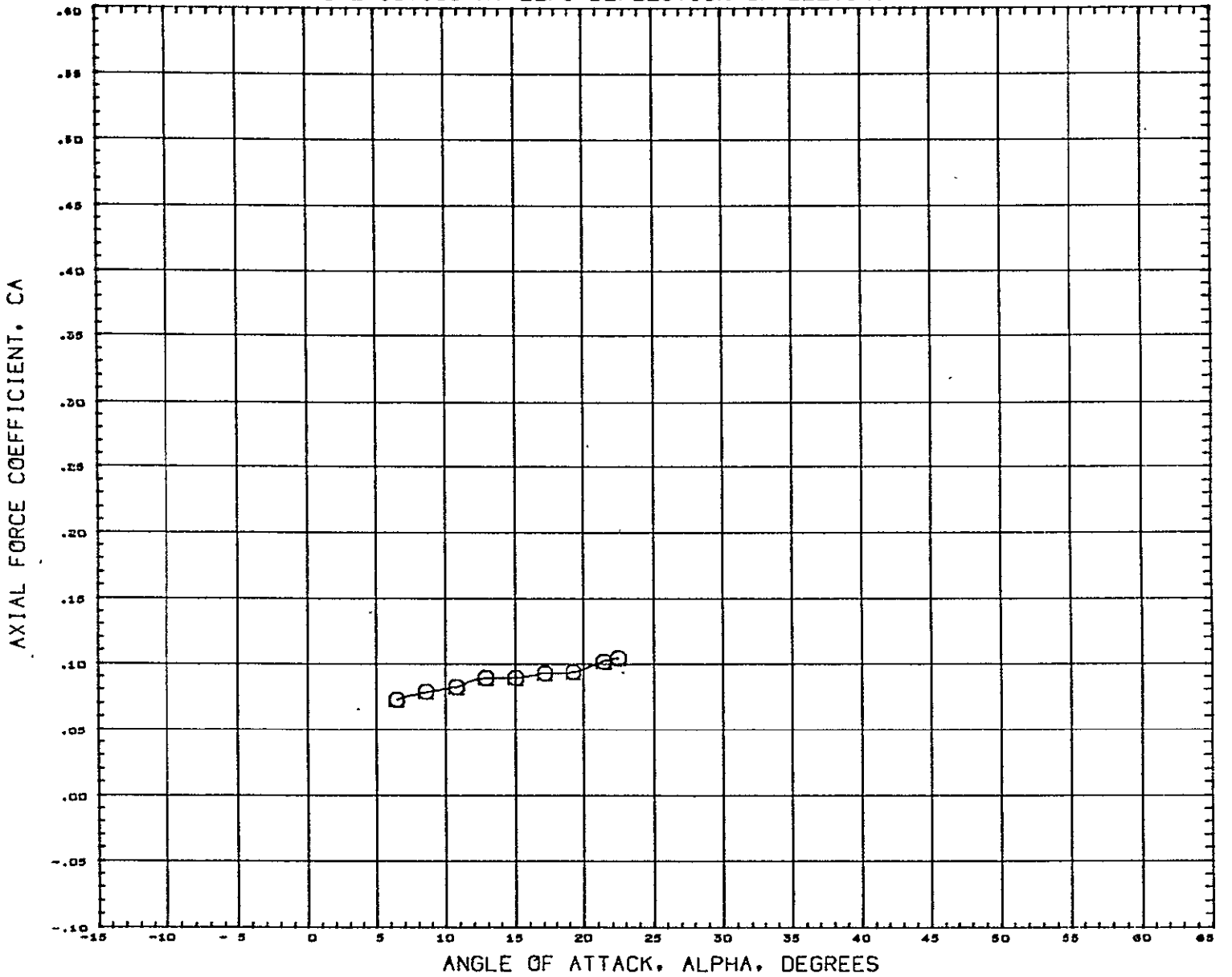
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.900

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



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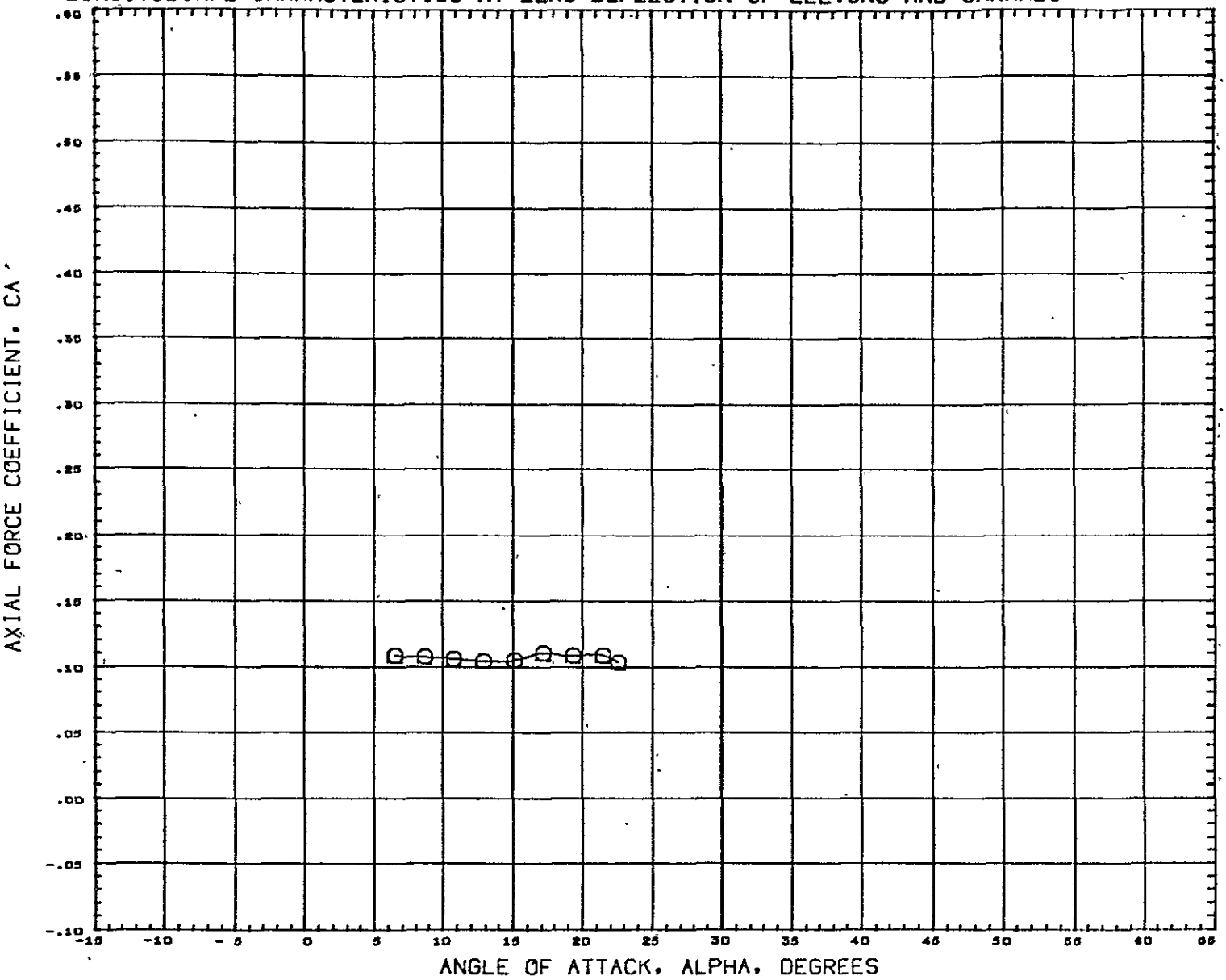
(E28020)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.954

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

MACH 1.007

REFERENCE INFORMATION		
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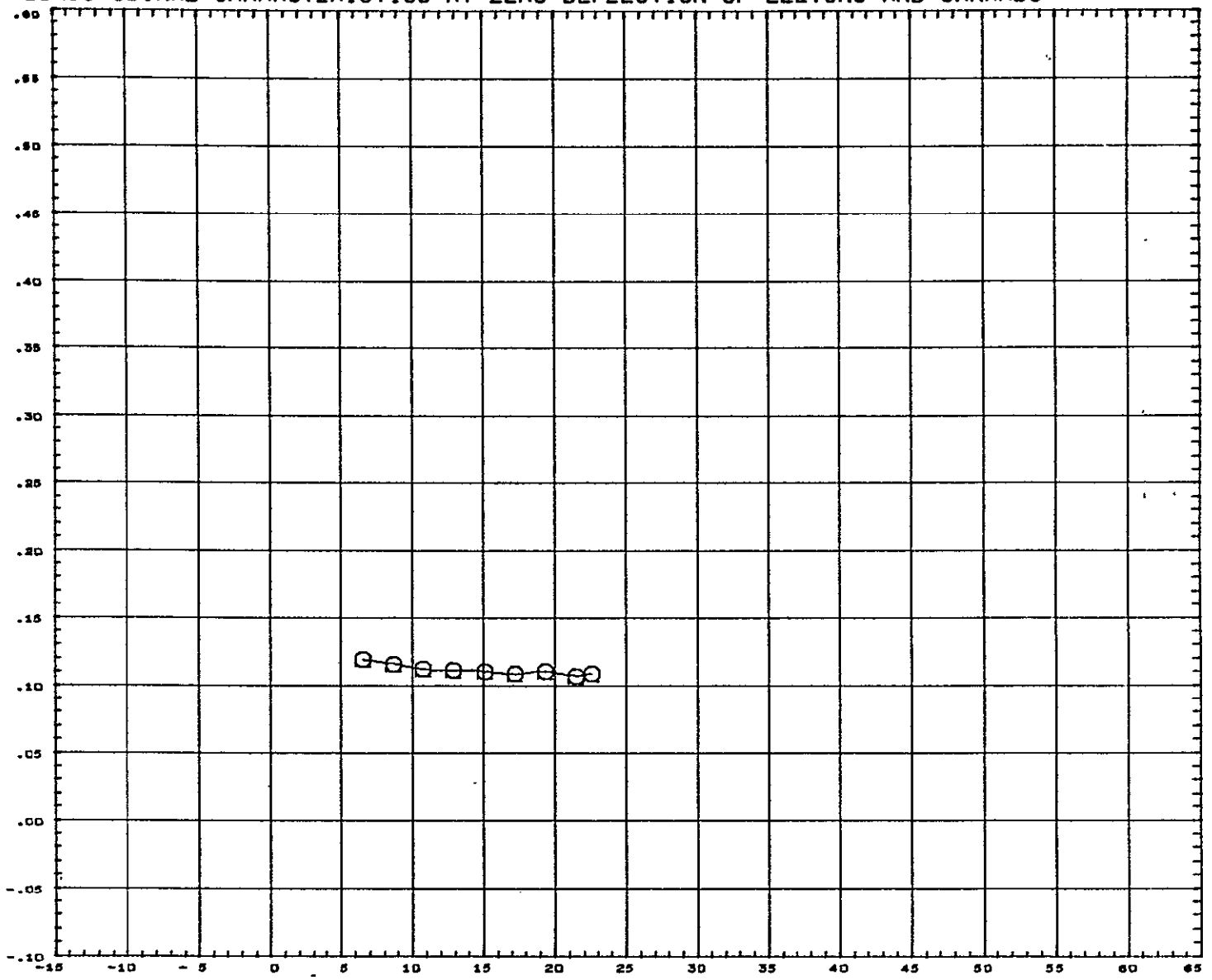
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

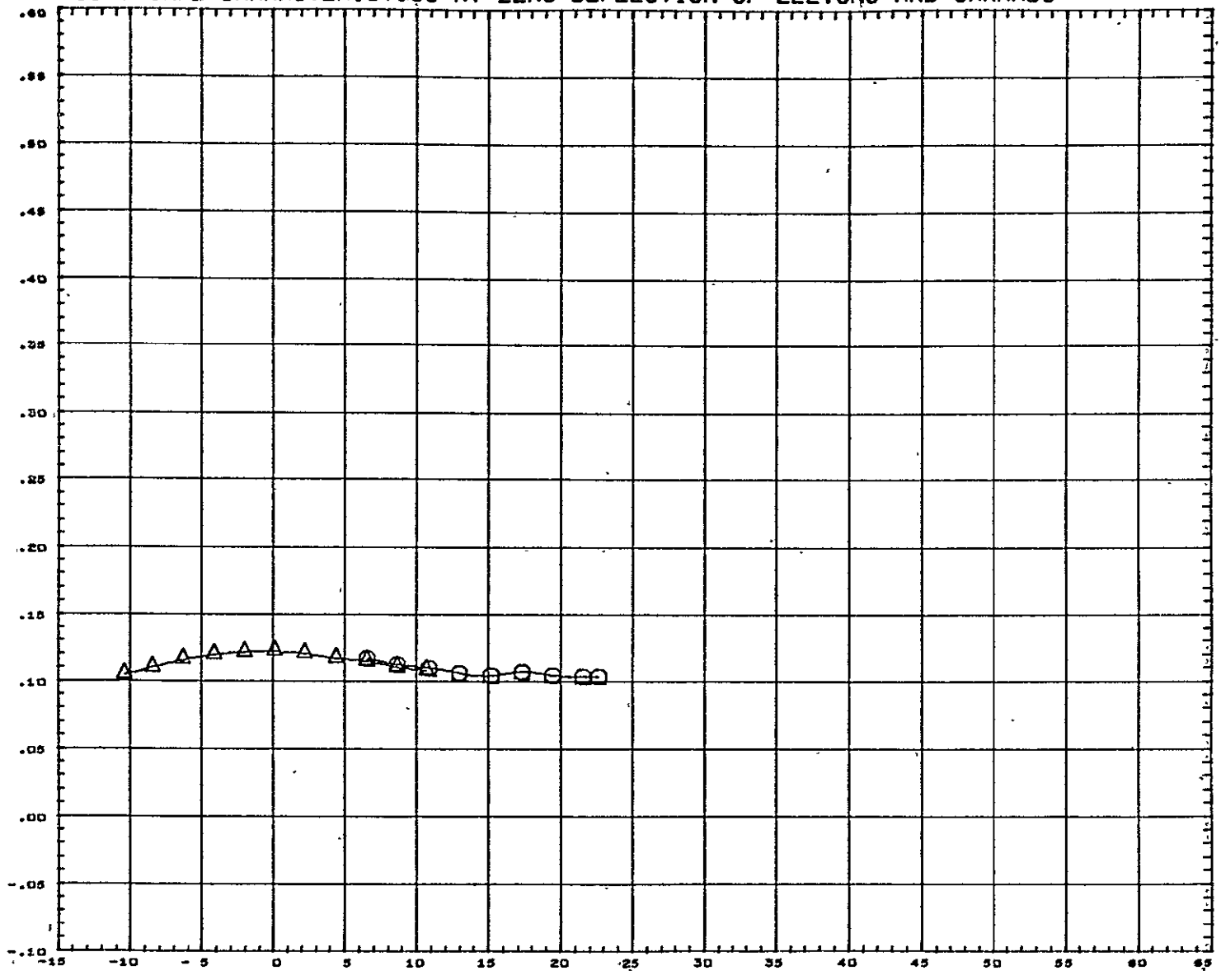


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C26001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E29820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E26C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

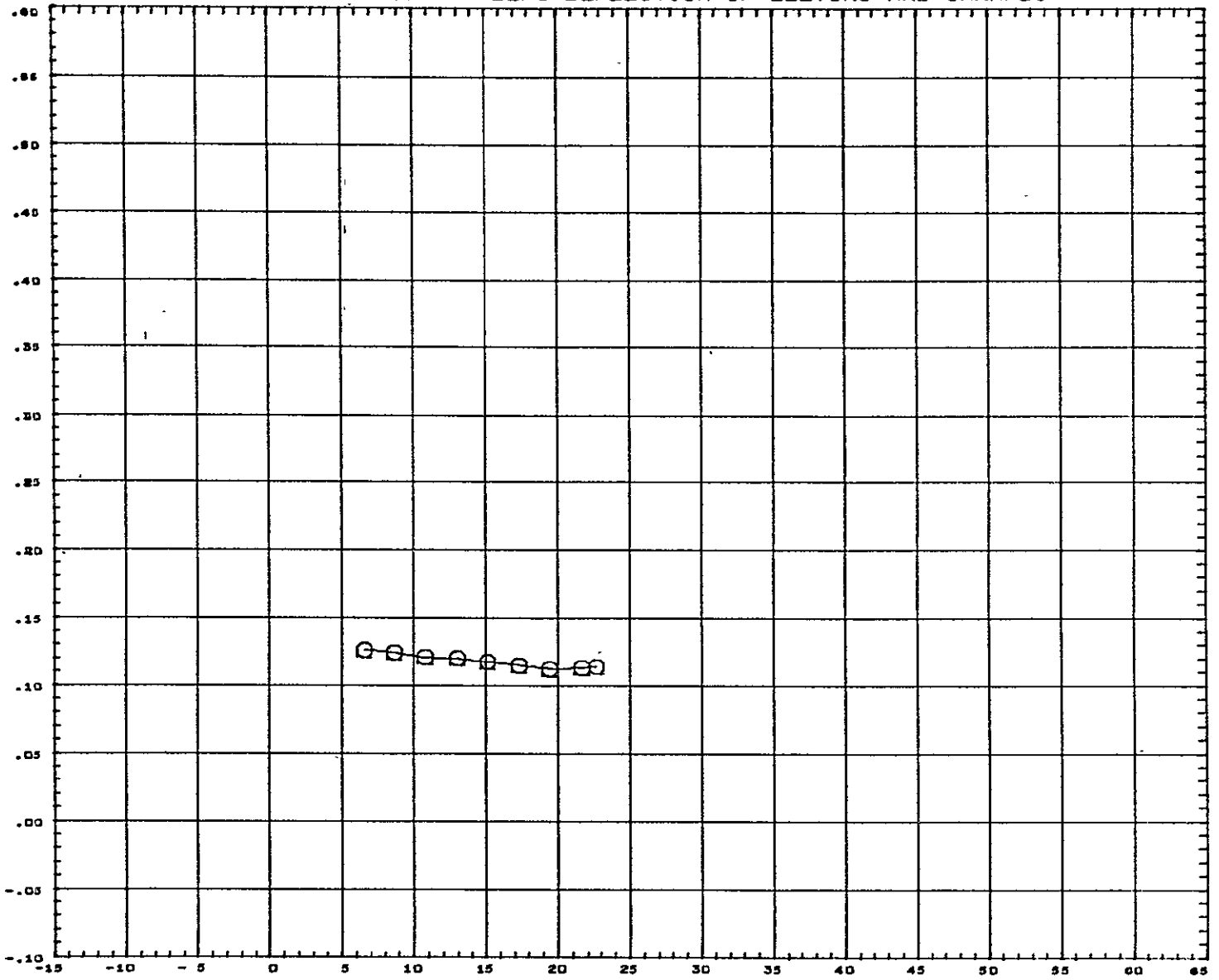


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.105

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

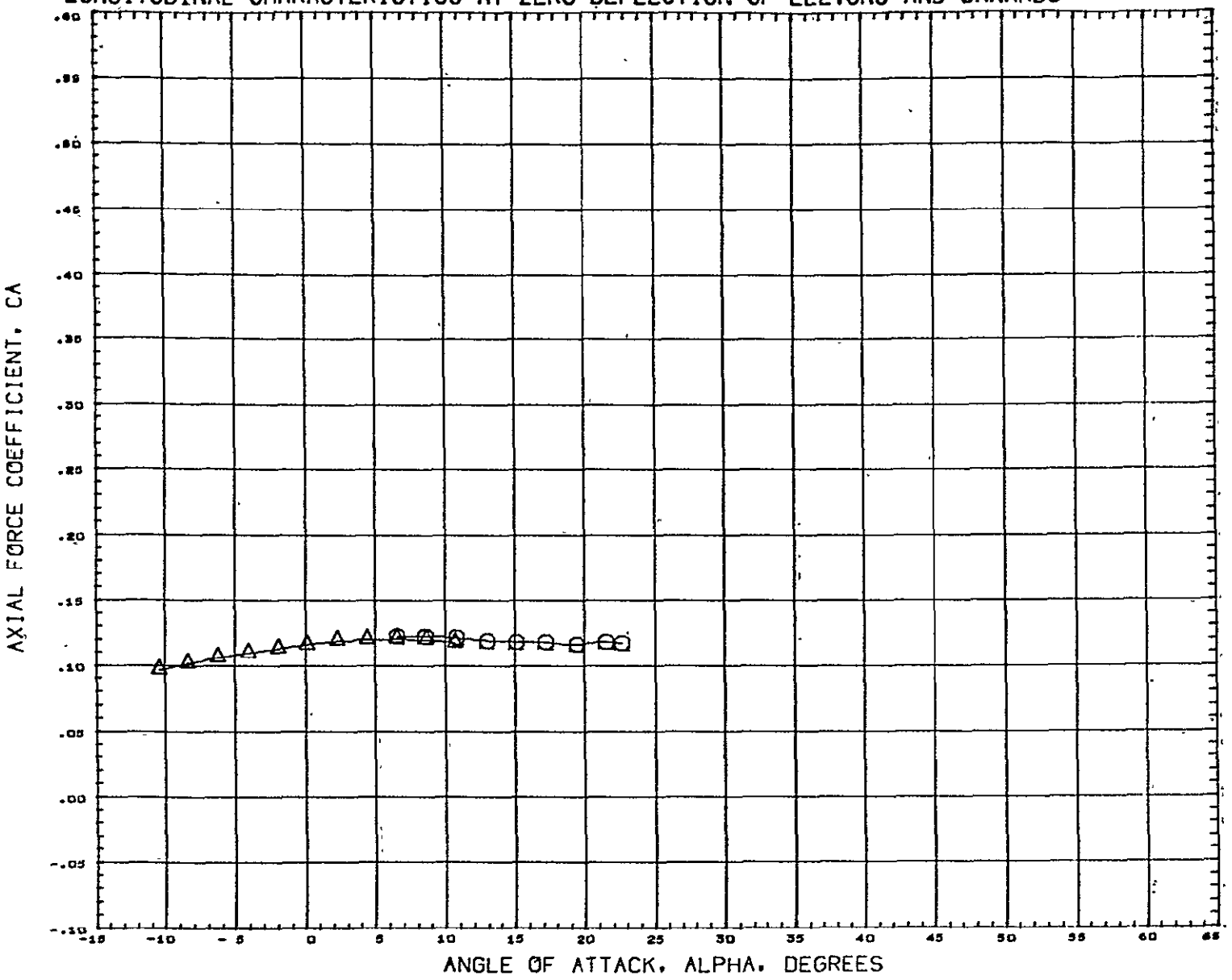


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

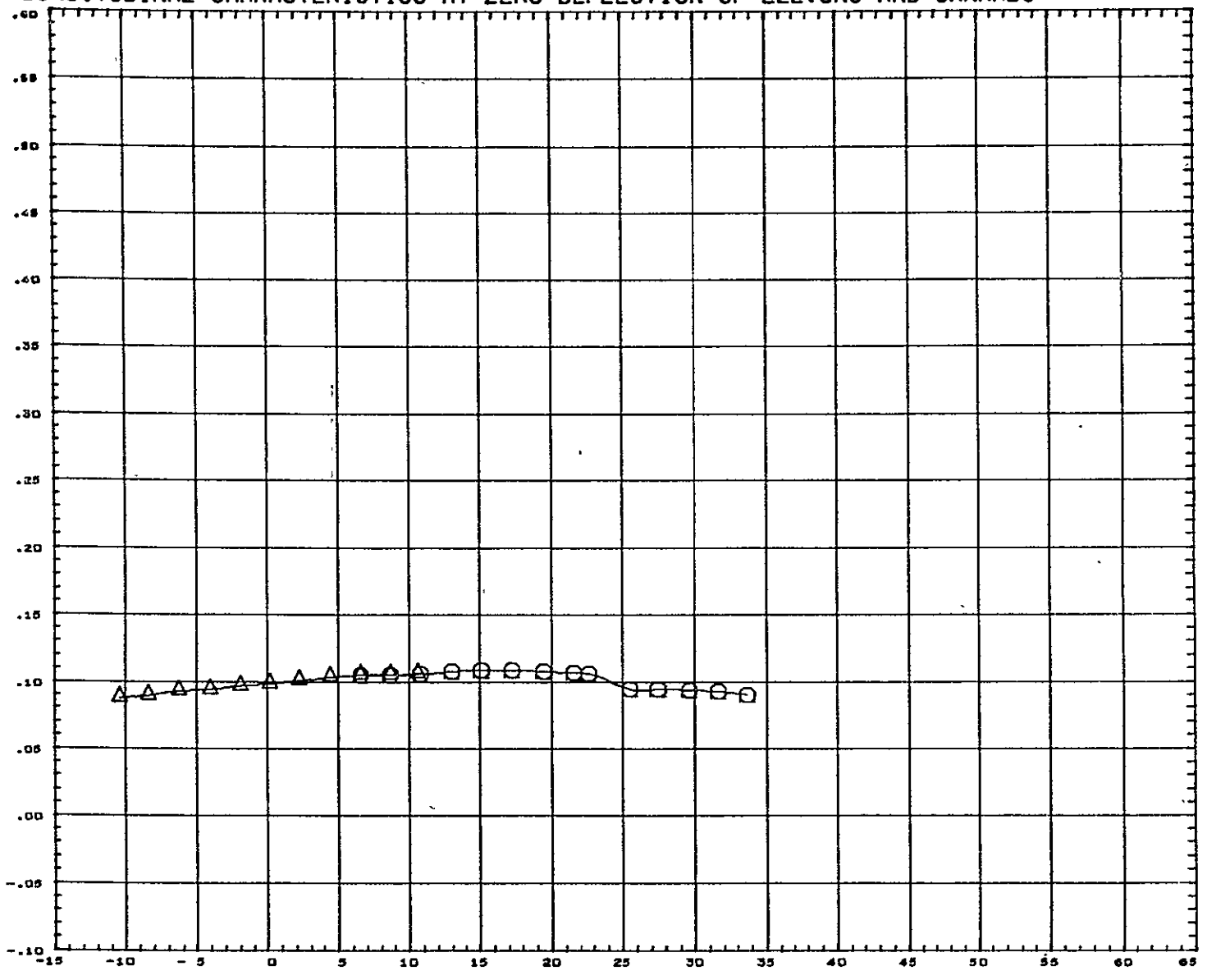


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C26D01)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E26B20)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E26C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.462

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

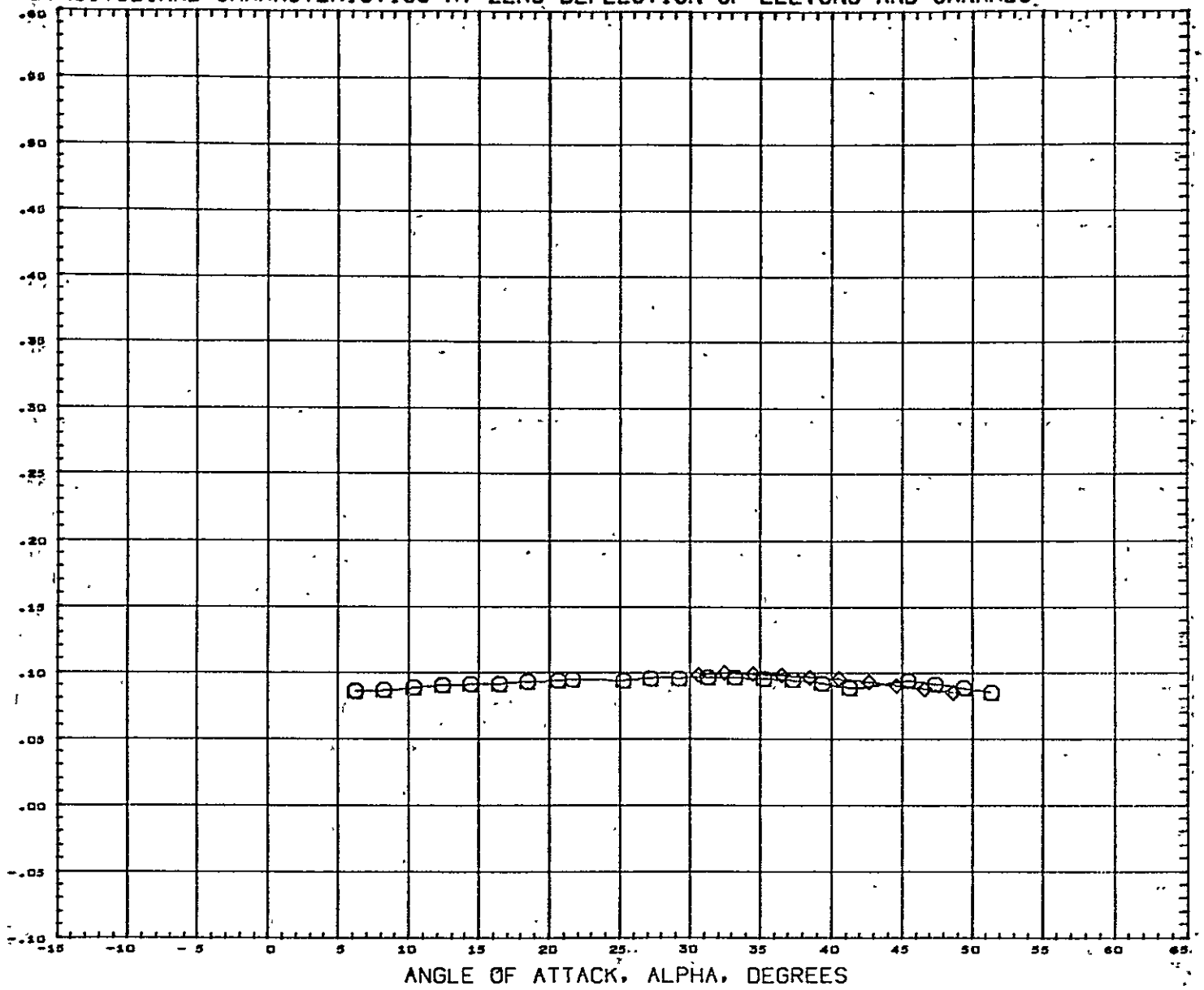


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

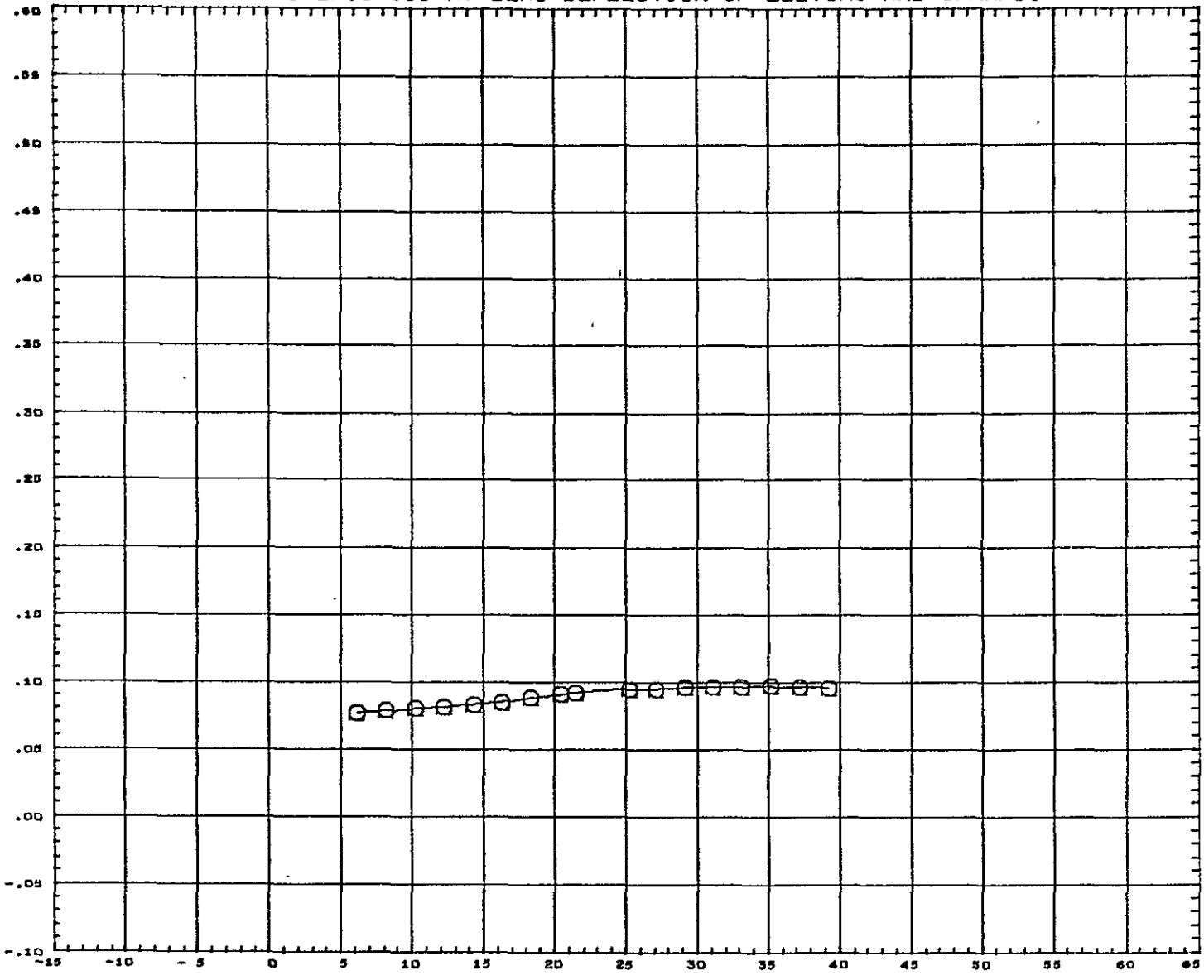


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(CZ8001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(EZ8B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(EZ8C51)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

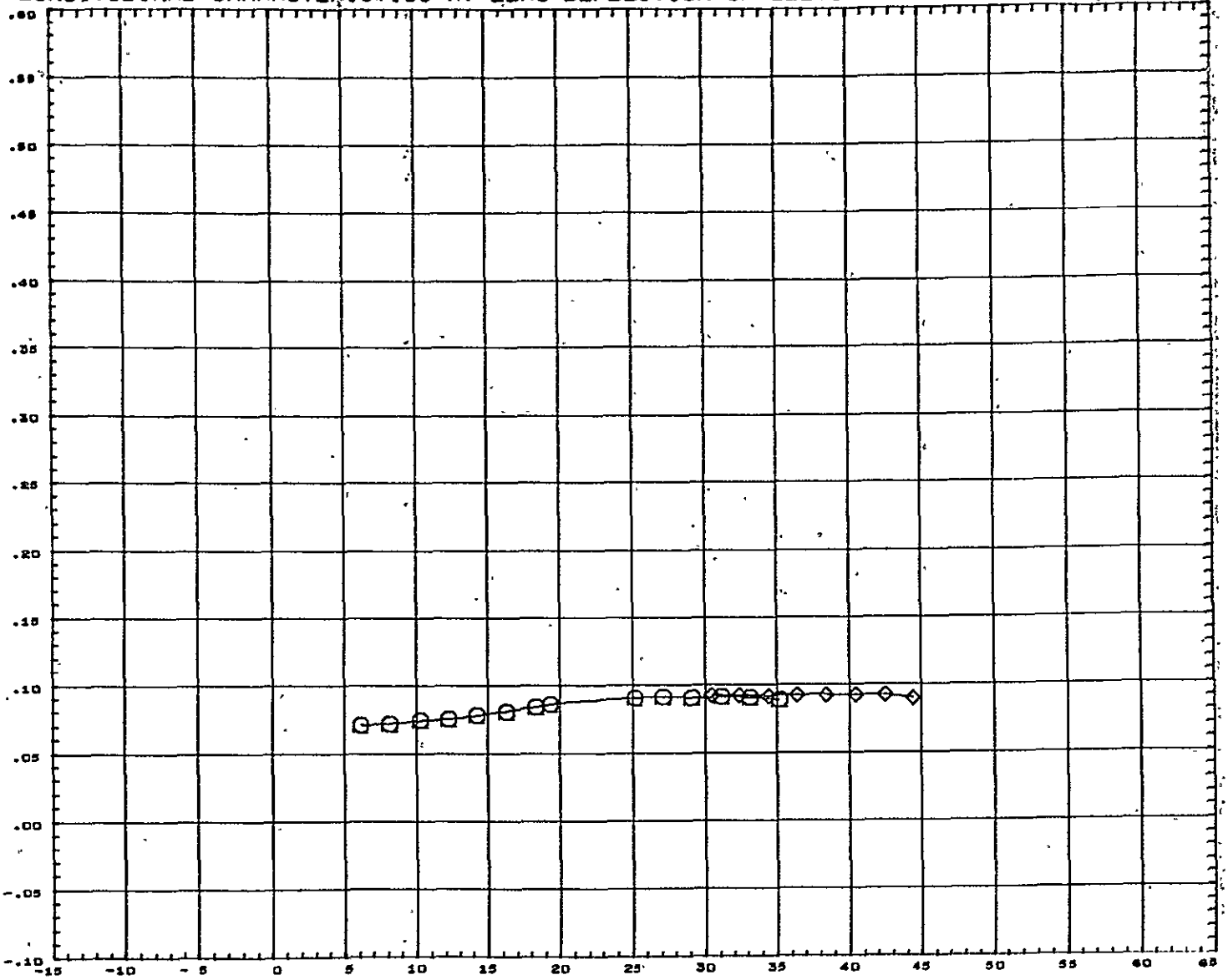


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B2D)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

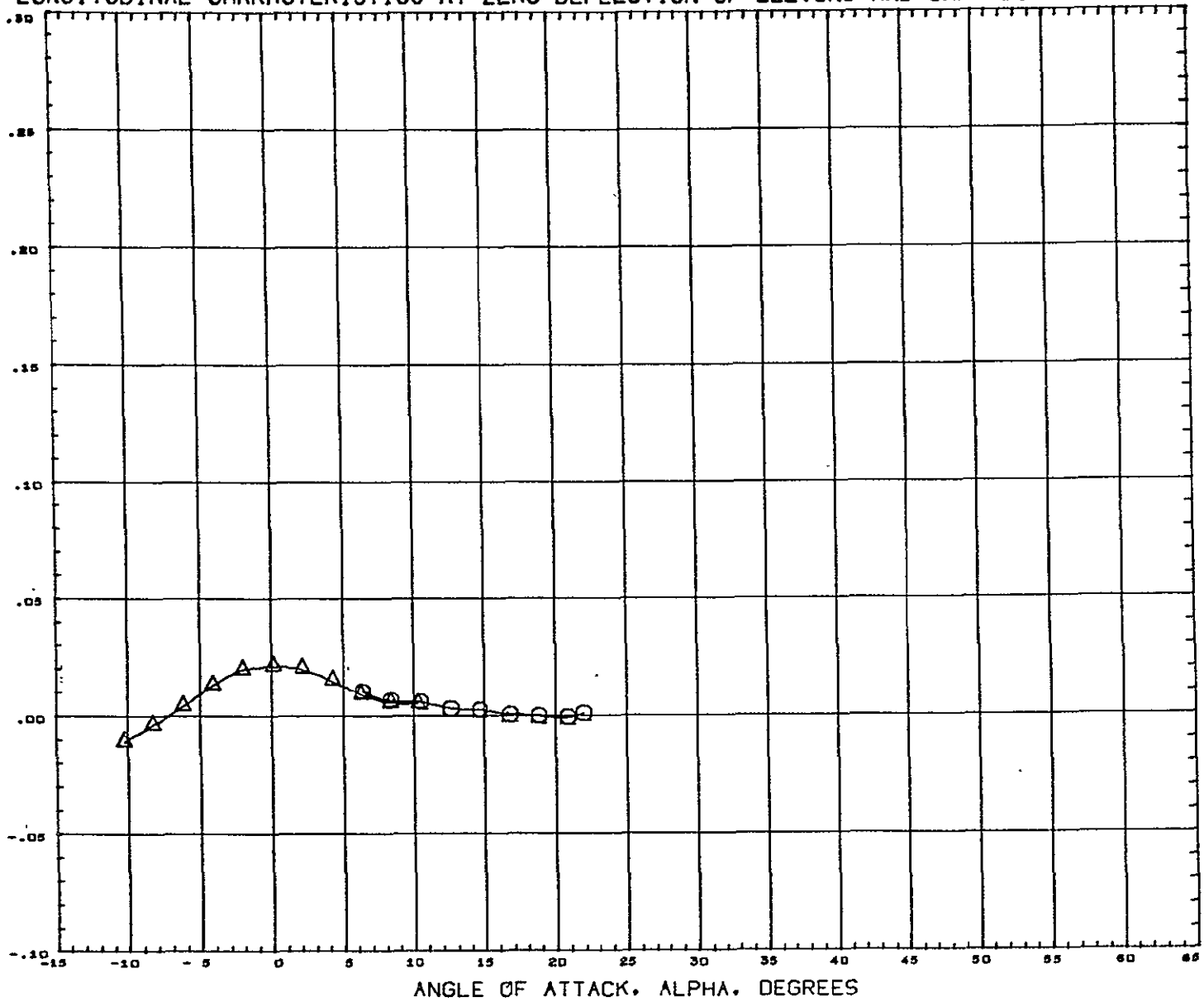


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



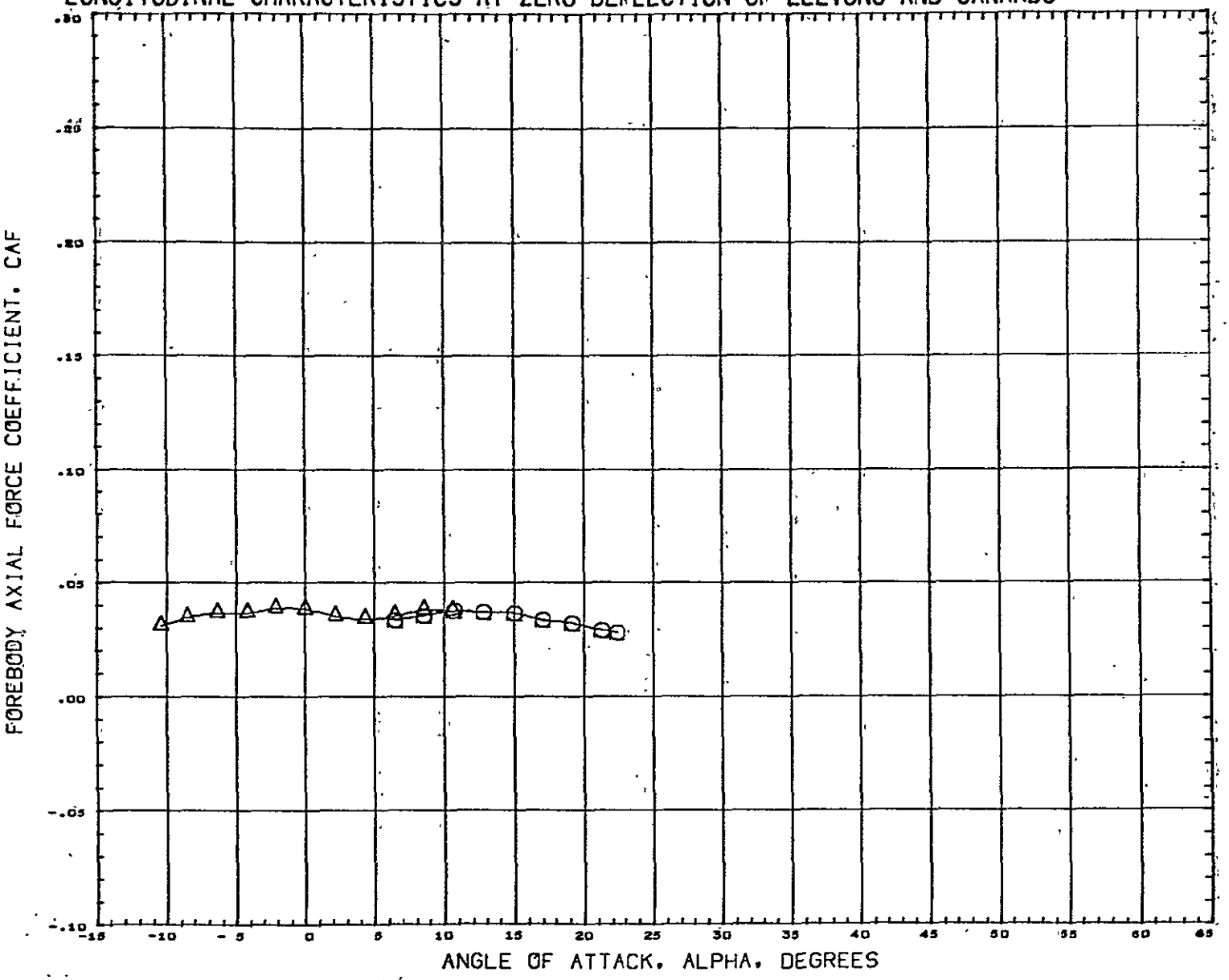
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E28B20)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7
(E20C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



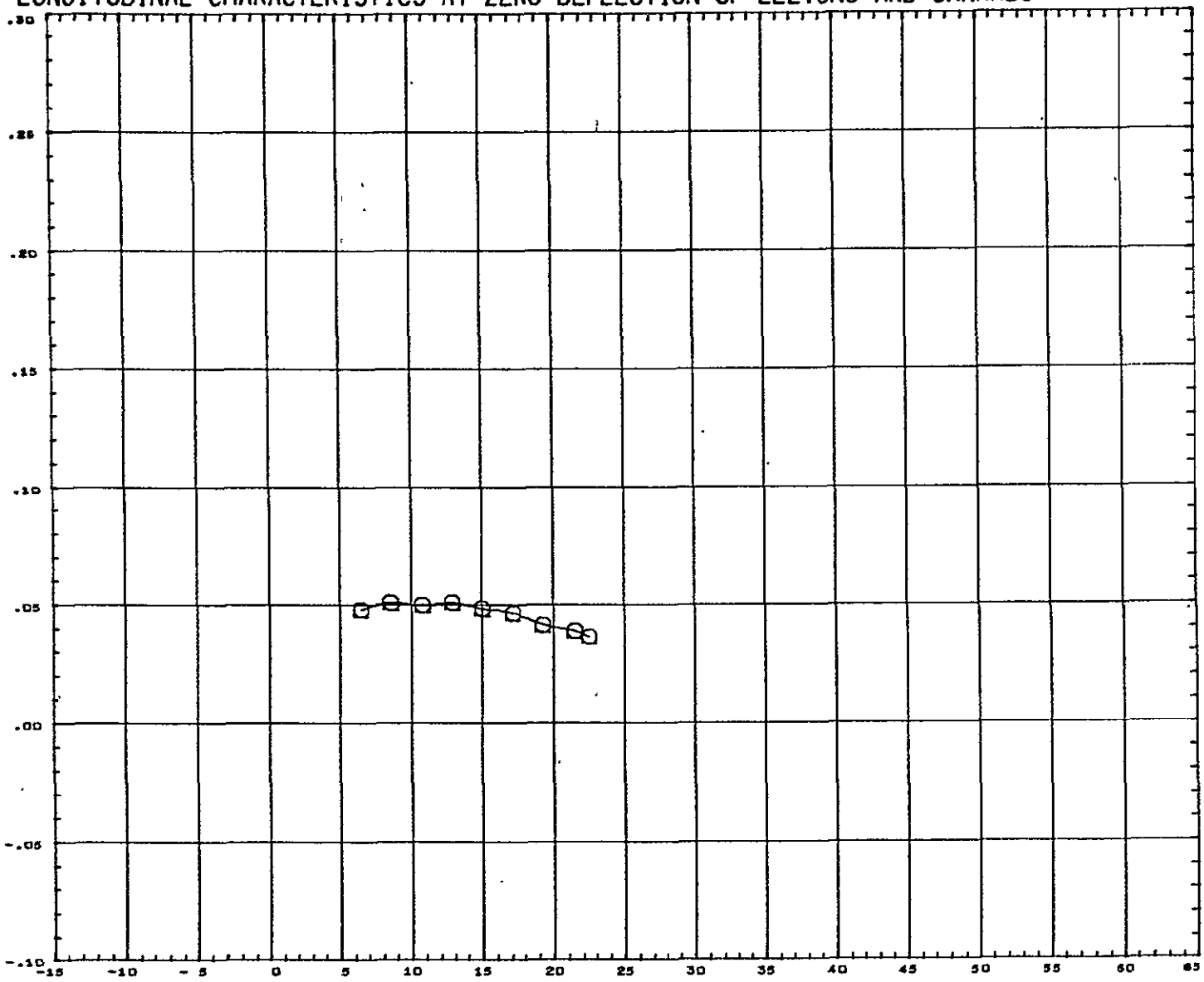
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.900

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

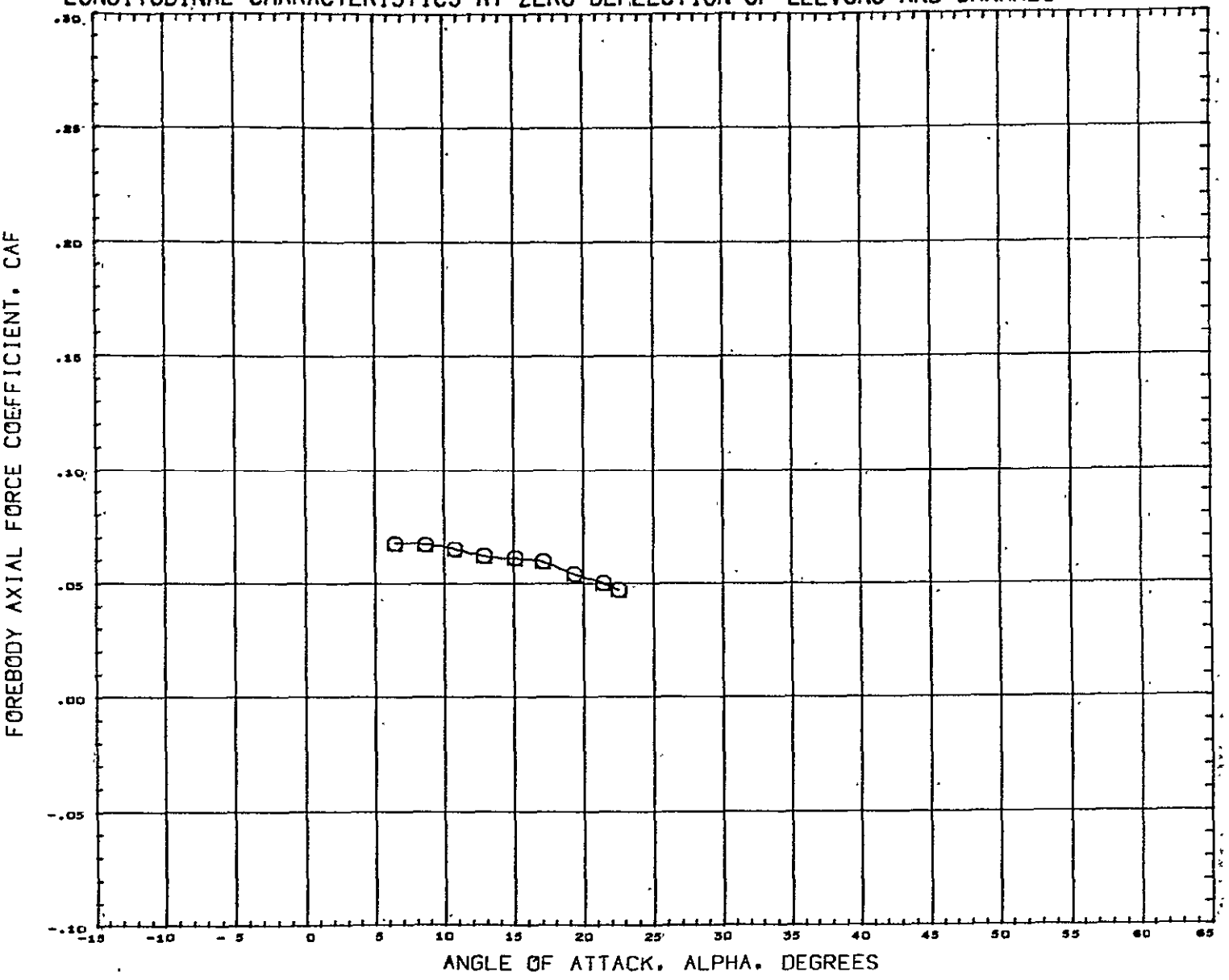


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	M5FC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

MACH 0.954

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS.

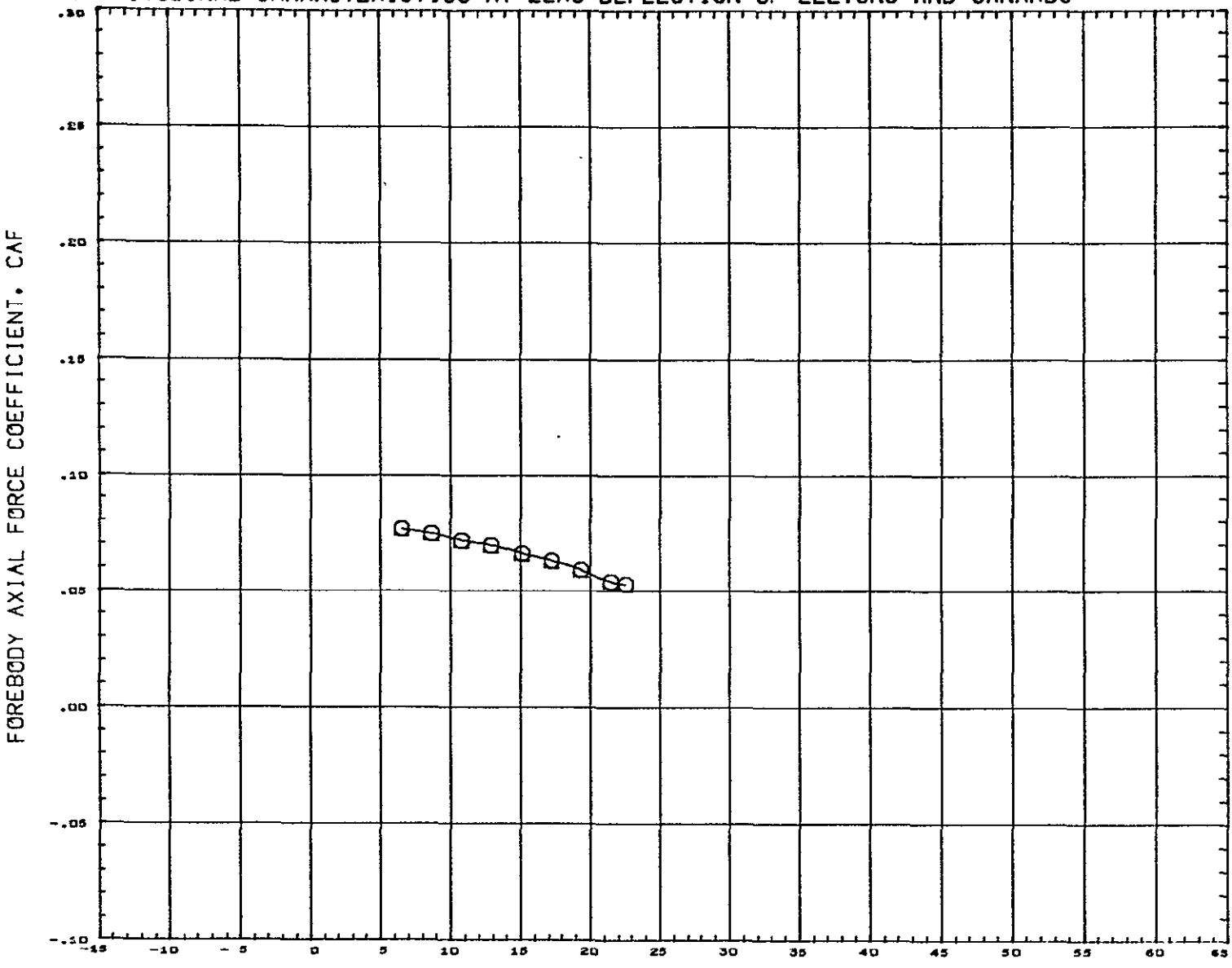


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C26001)	○	MSFC481 OD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E26820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



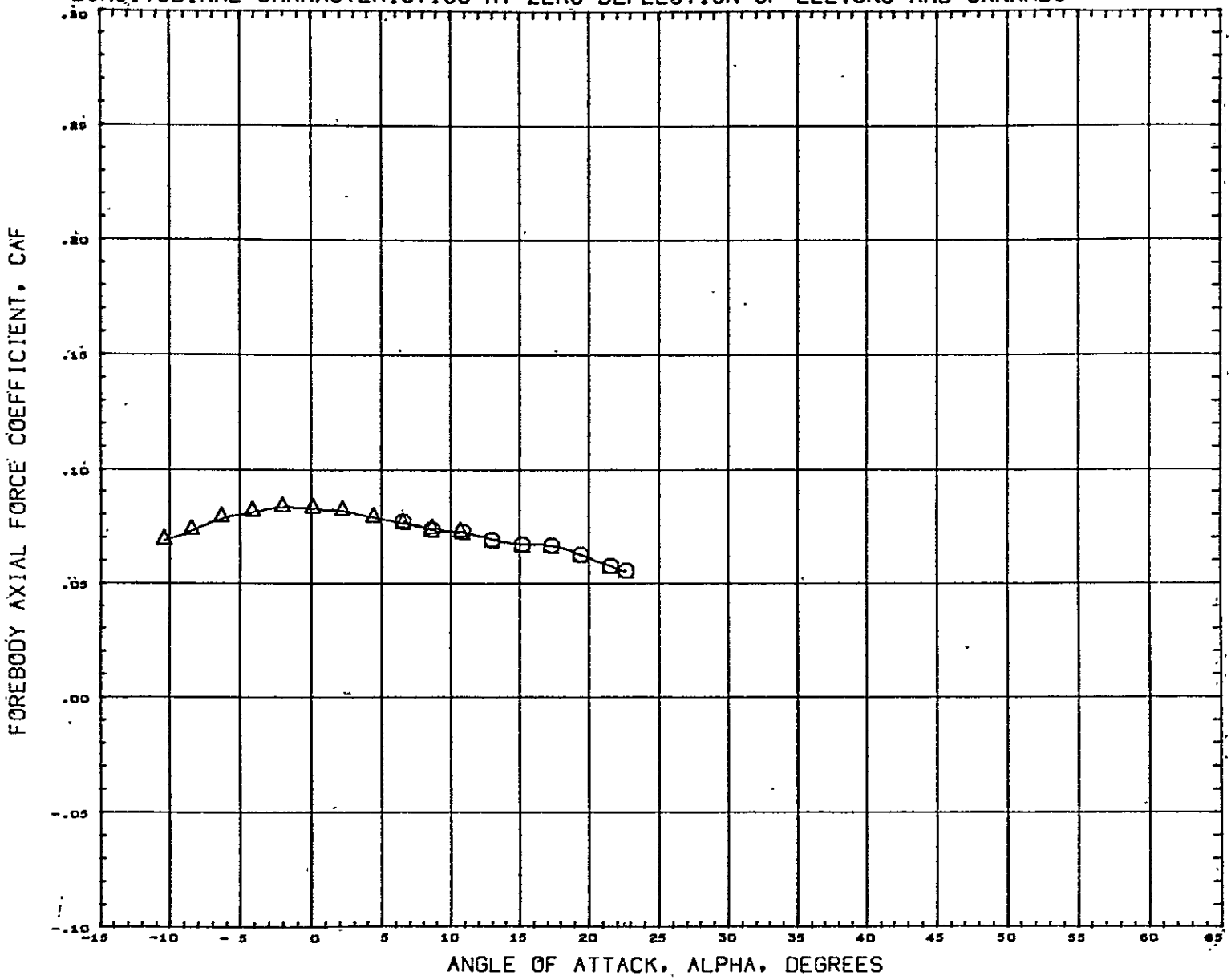
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)	○	H8FC481 GD/C(BOOSTER)B19W14C4AV7
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

	BETA	ELEVON	CANARD	RUDDER
	0.000	0.000	0.000	
	0.000	0.000	0.000	
	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

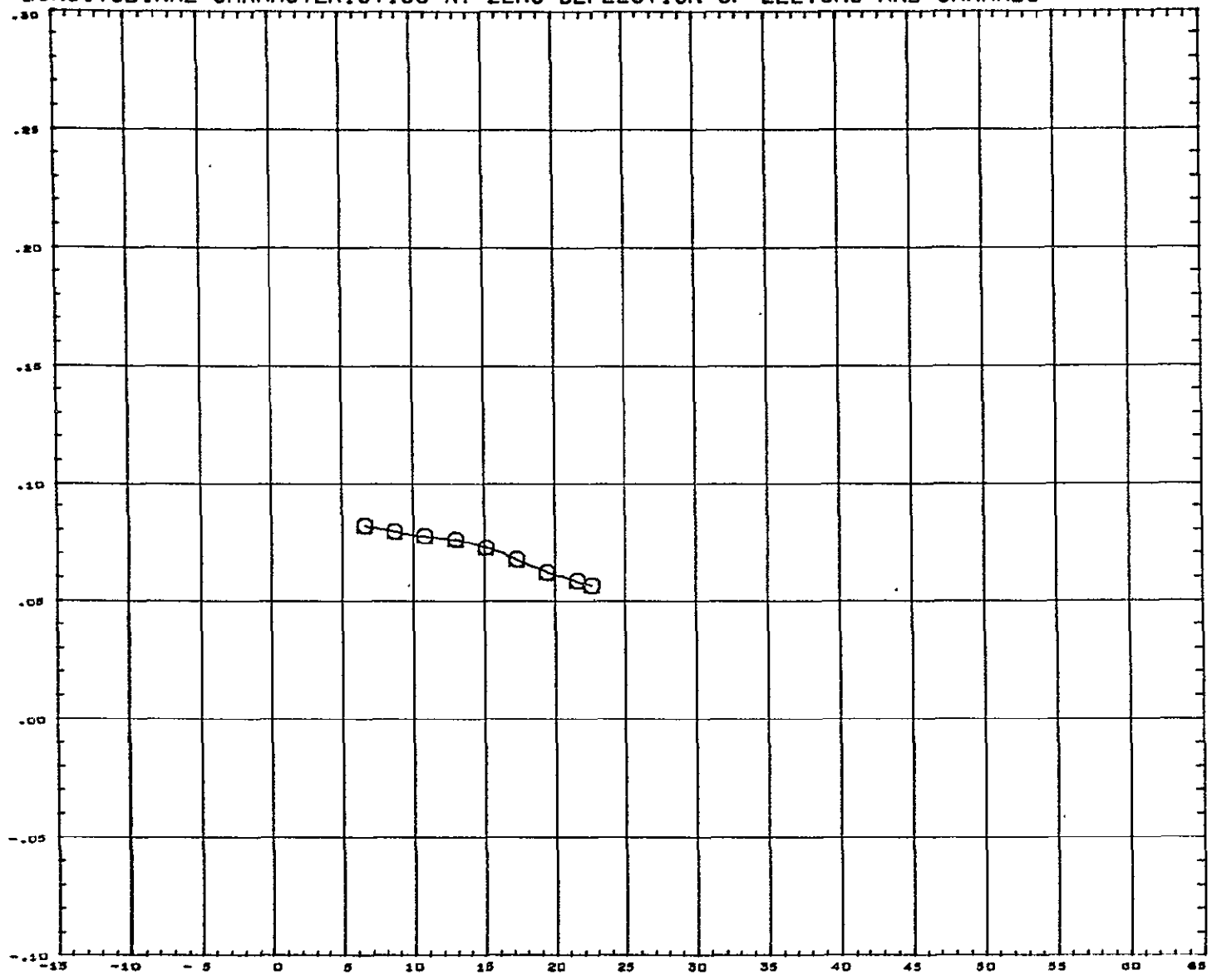


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C26D01)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E26B2D)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E26C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.105

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

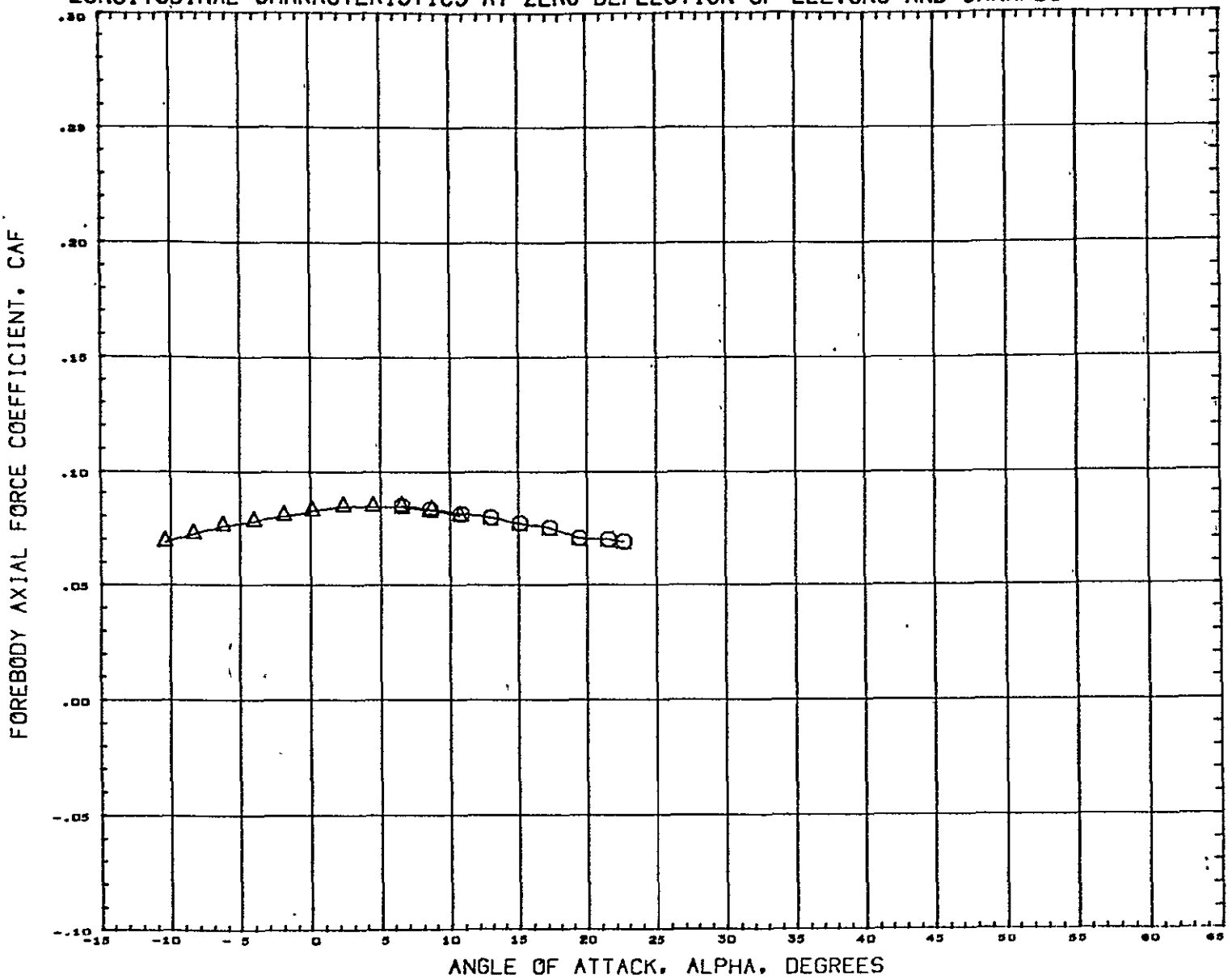


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

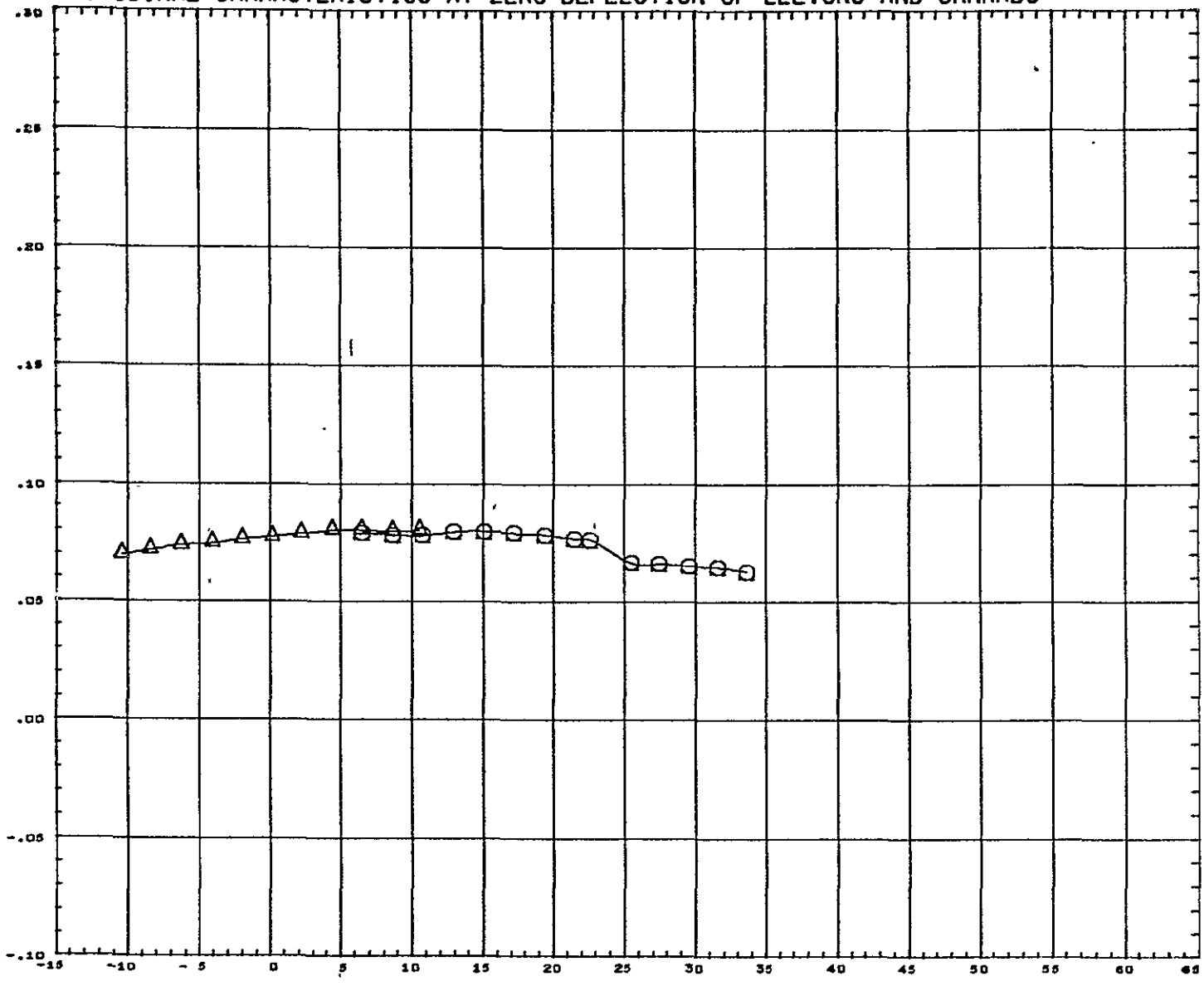


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28020)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.462

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

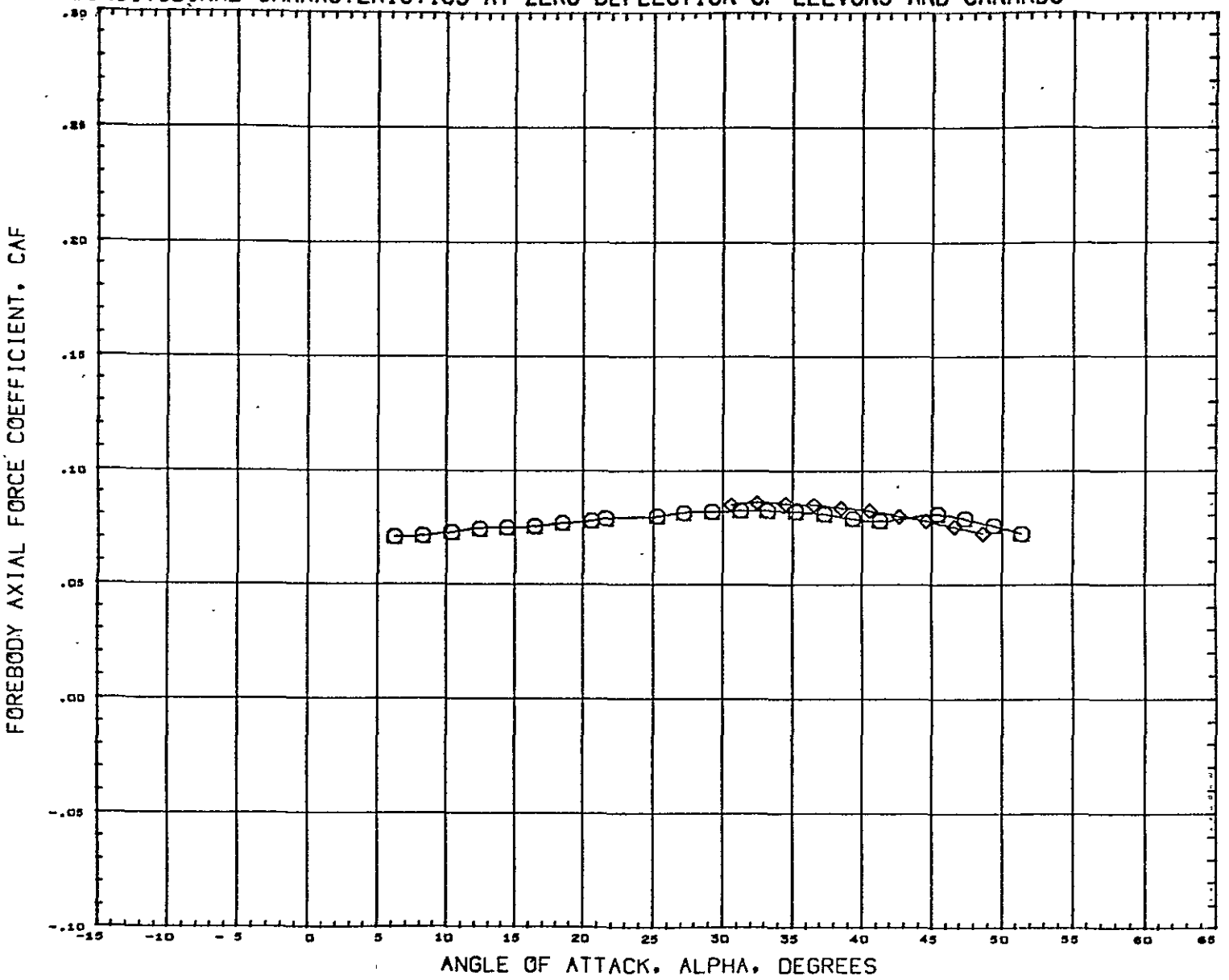


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



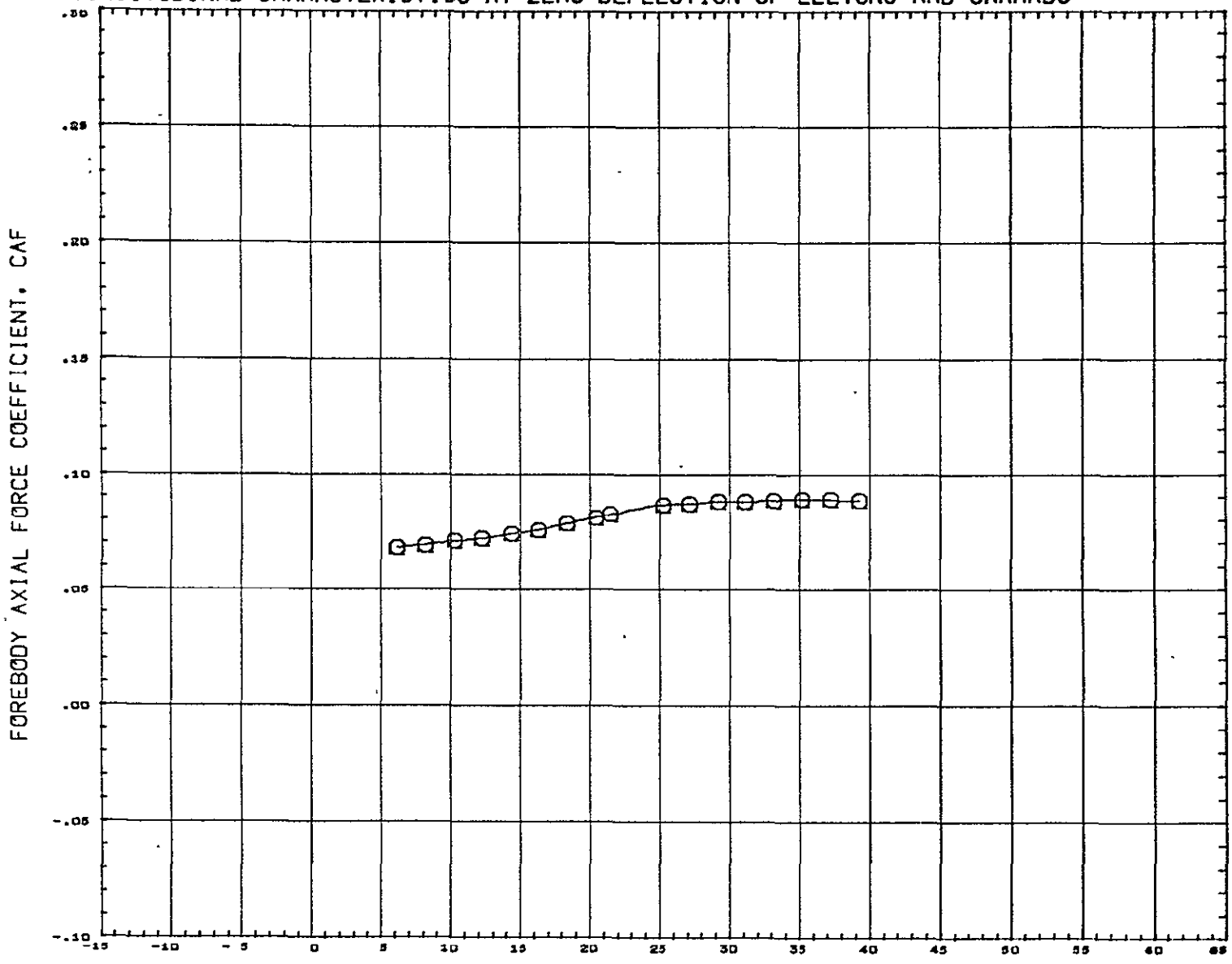
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C26001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E26820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E26C51)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

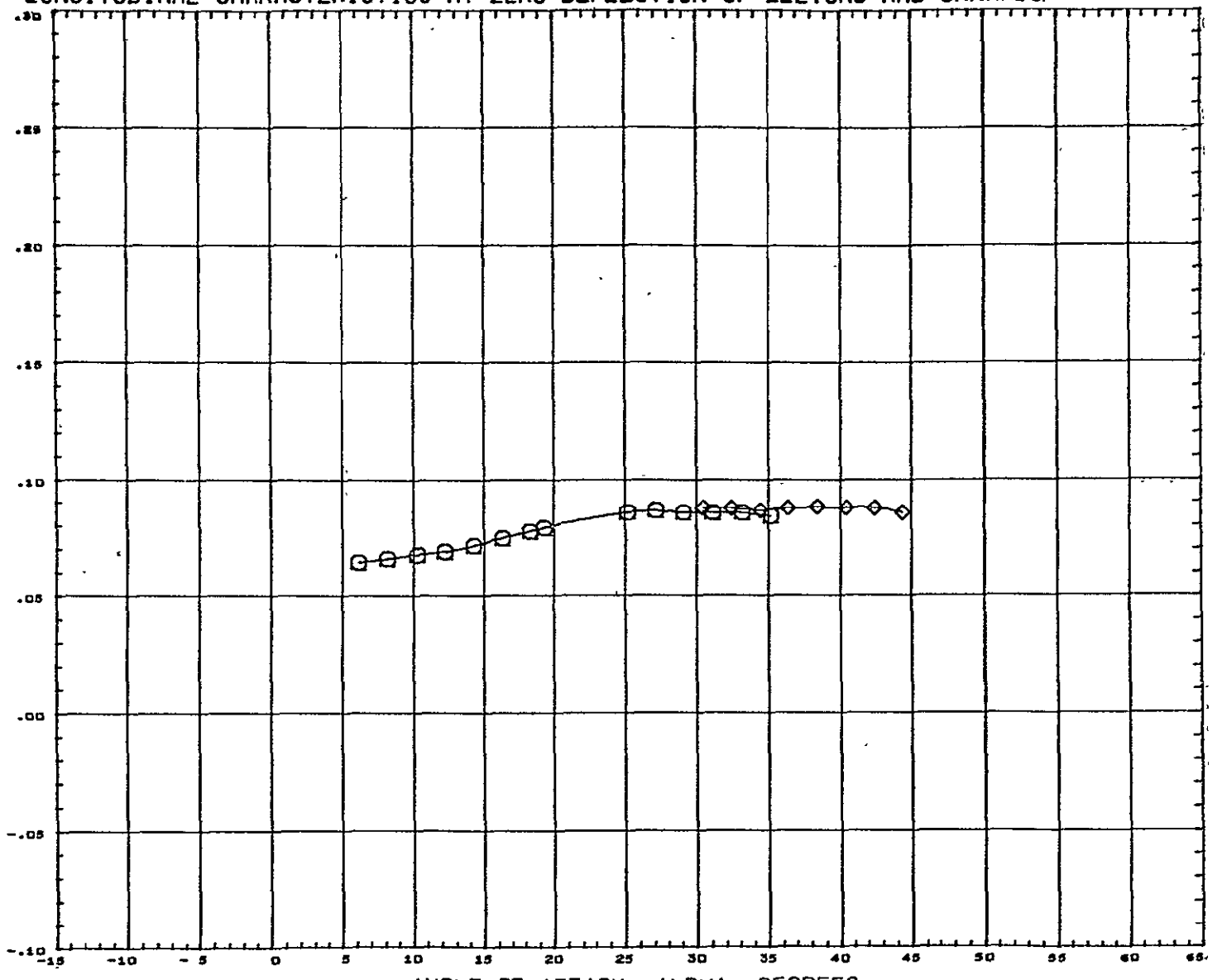


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	HSFC401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	5.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.000

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

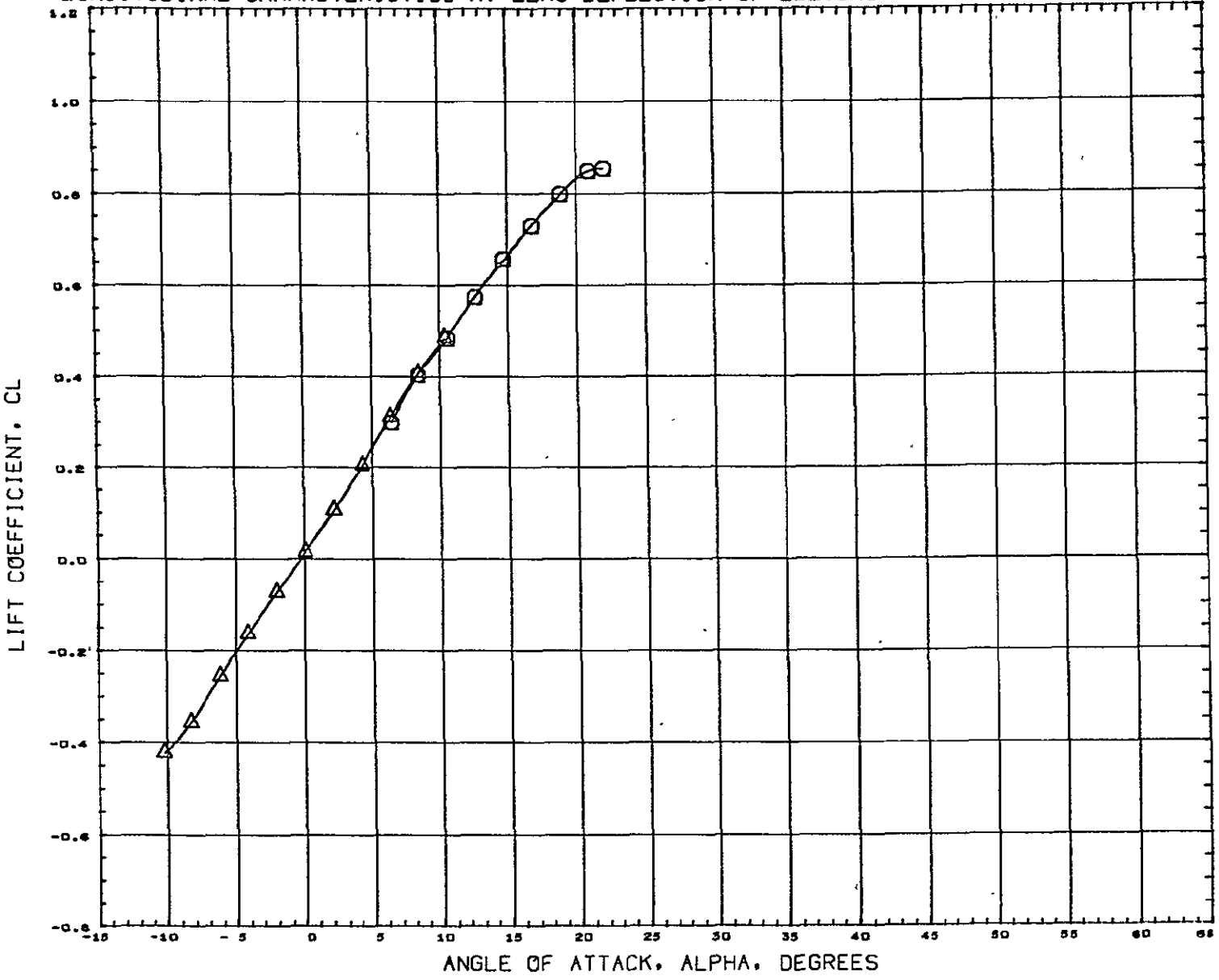


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



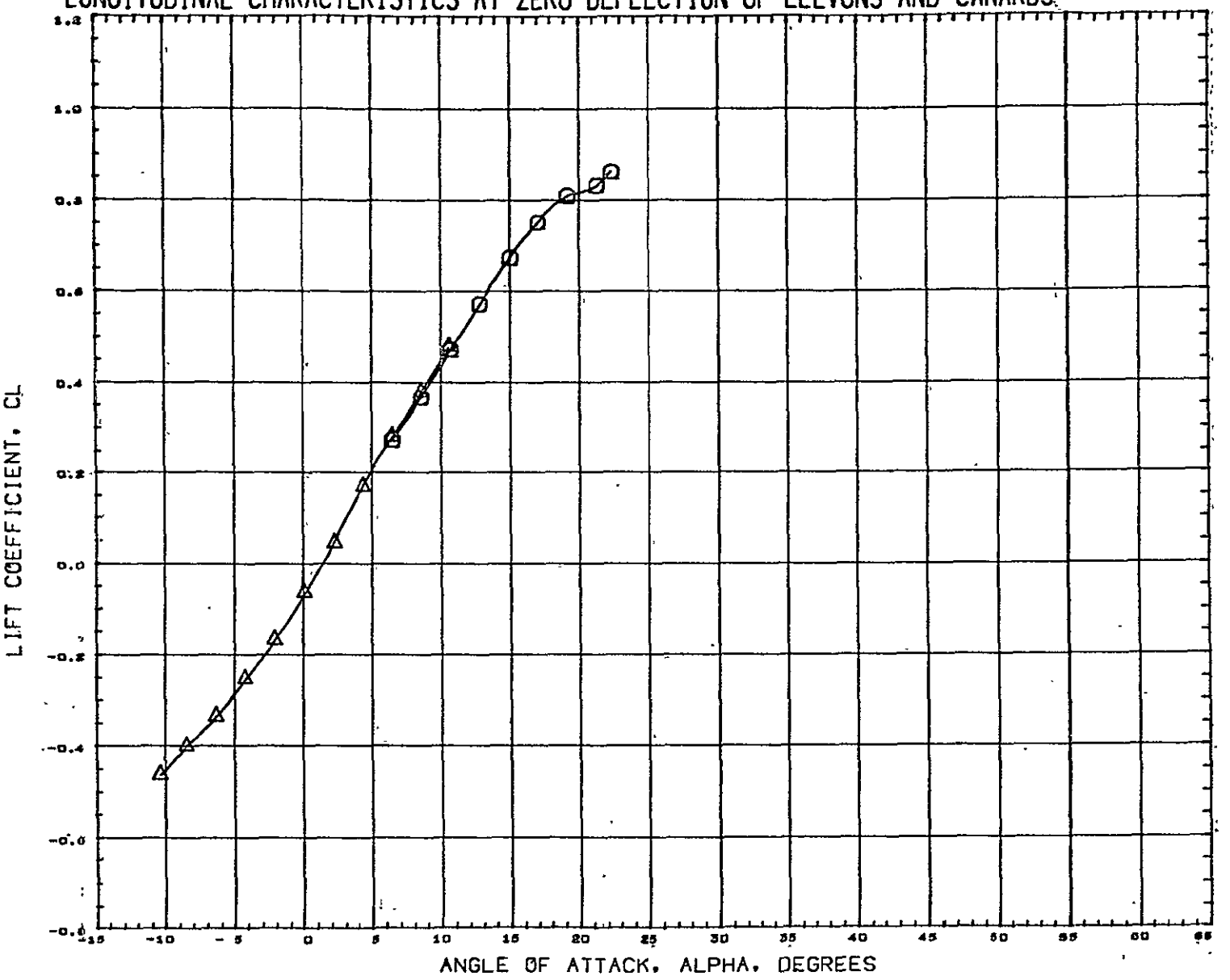
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

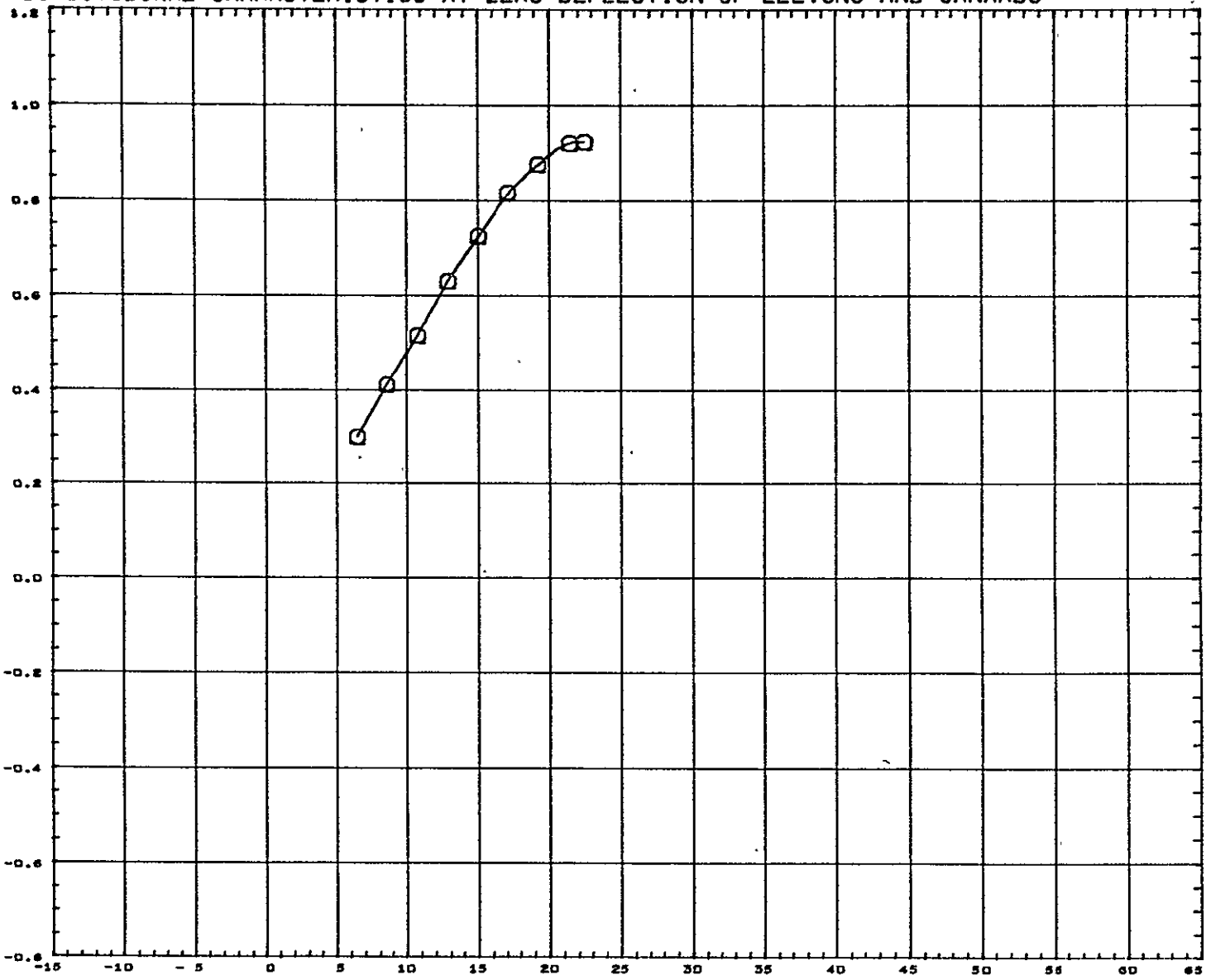


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.900

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

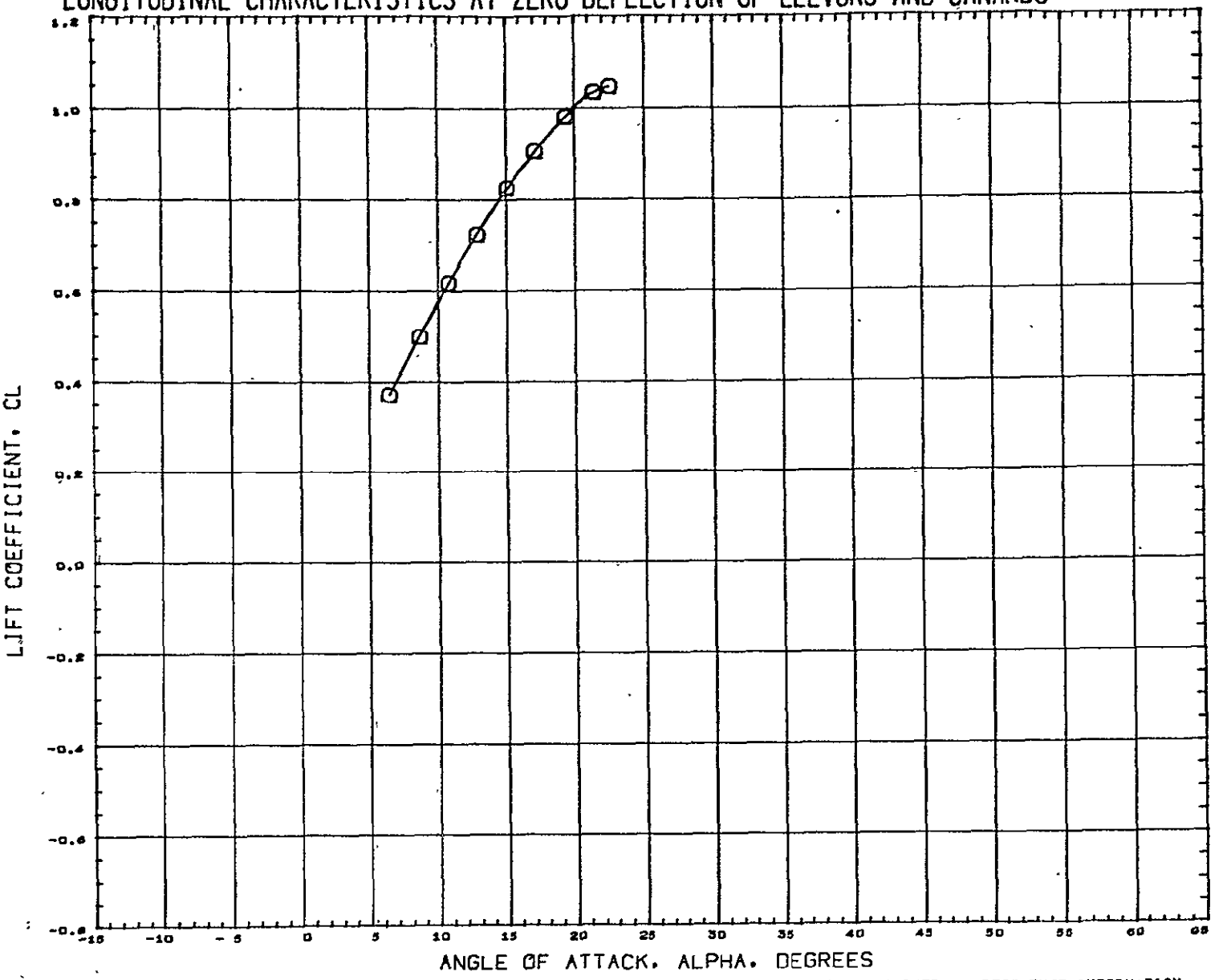


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

MACH 0.954

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

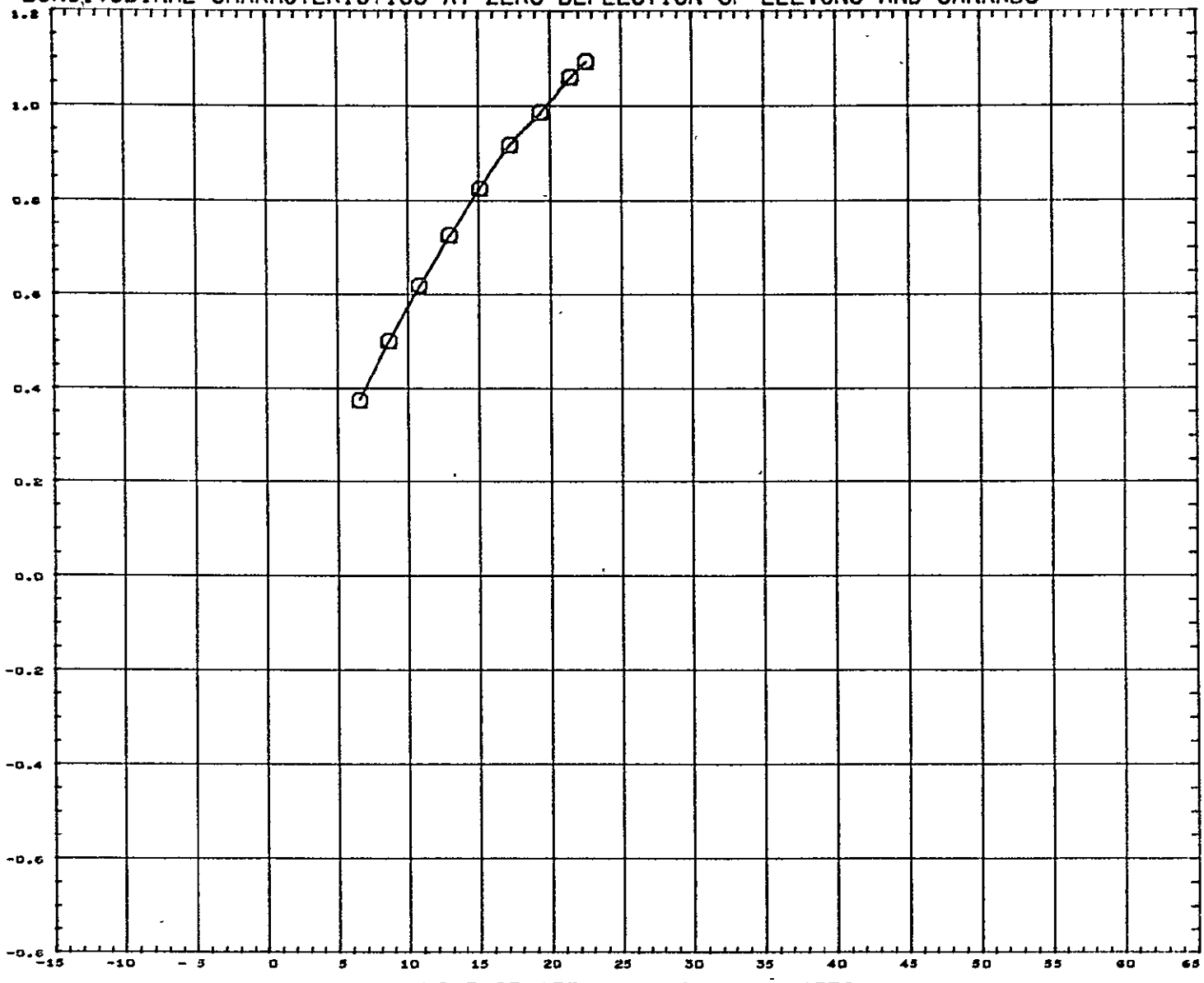


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C61)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

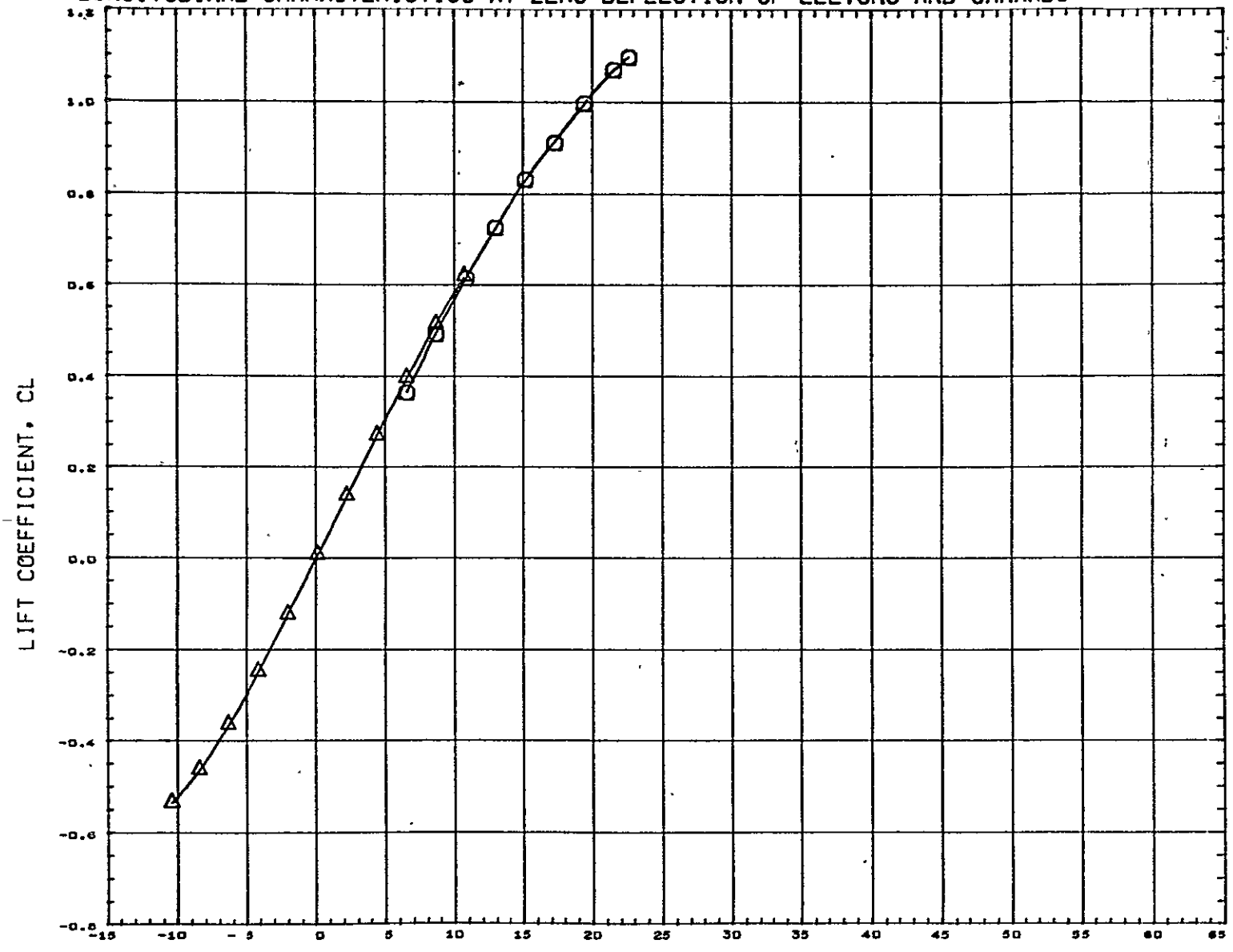


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	☒	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

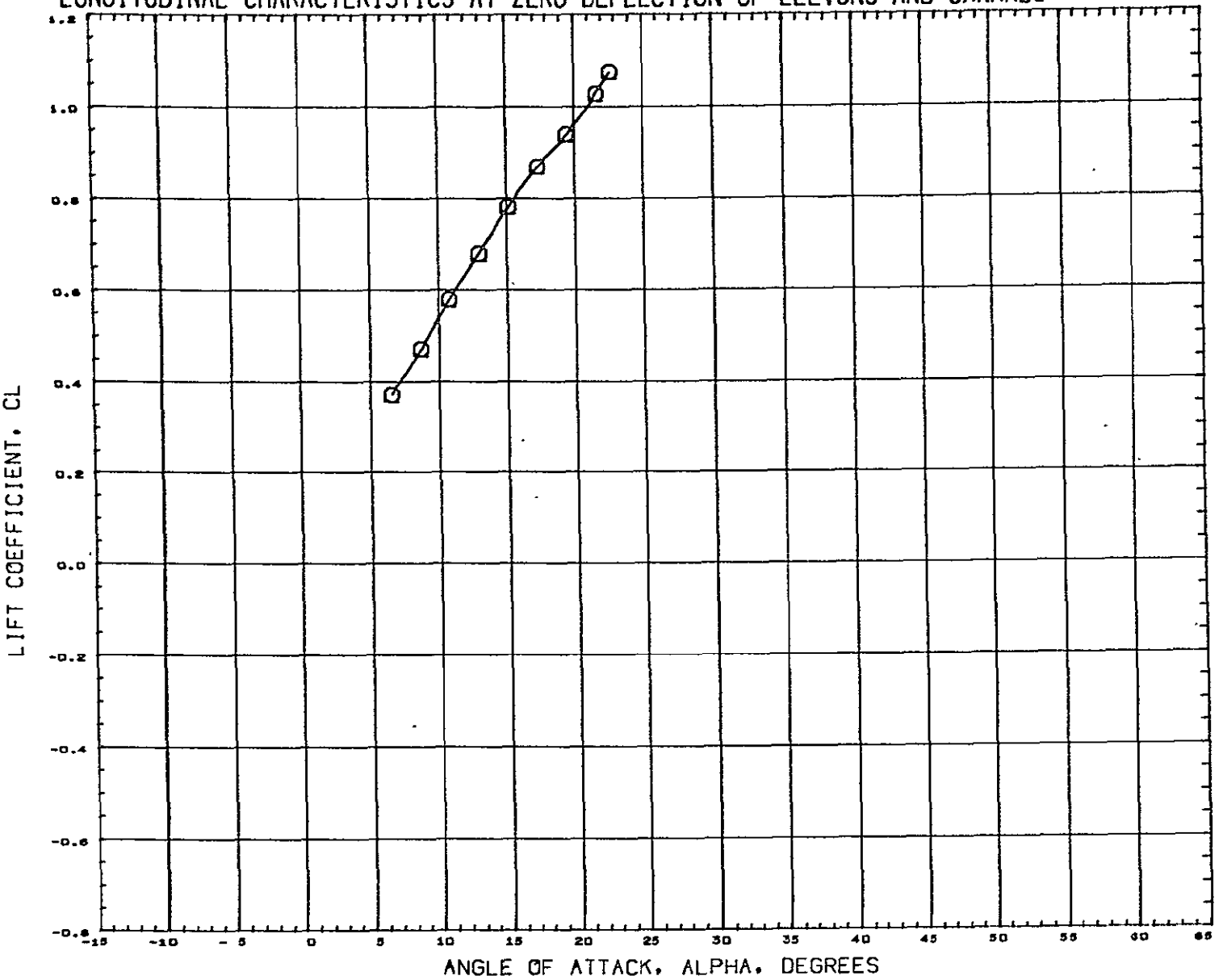


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.105

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

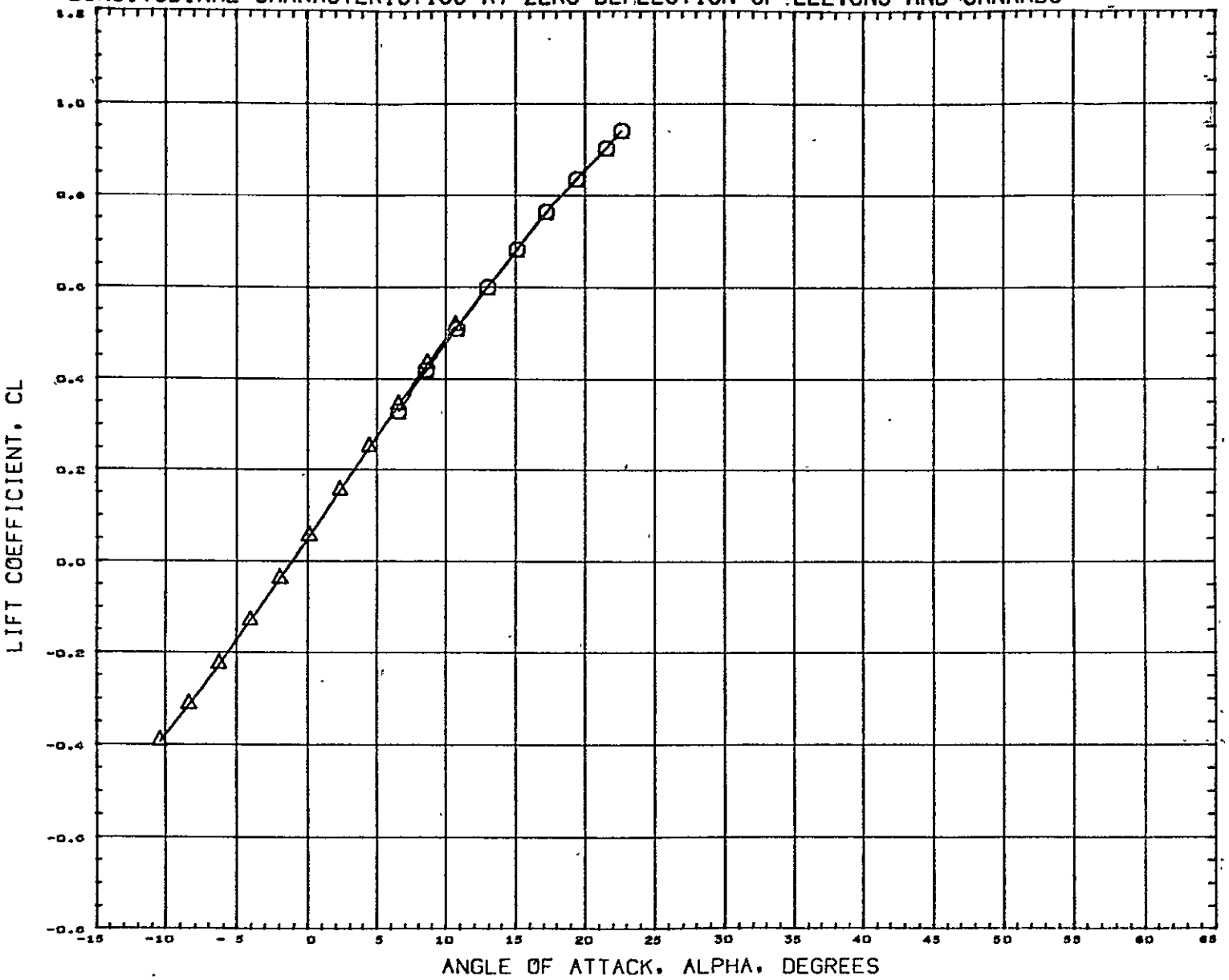


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0055	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

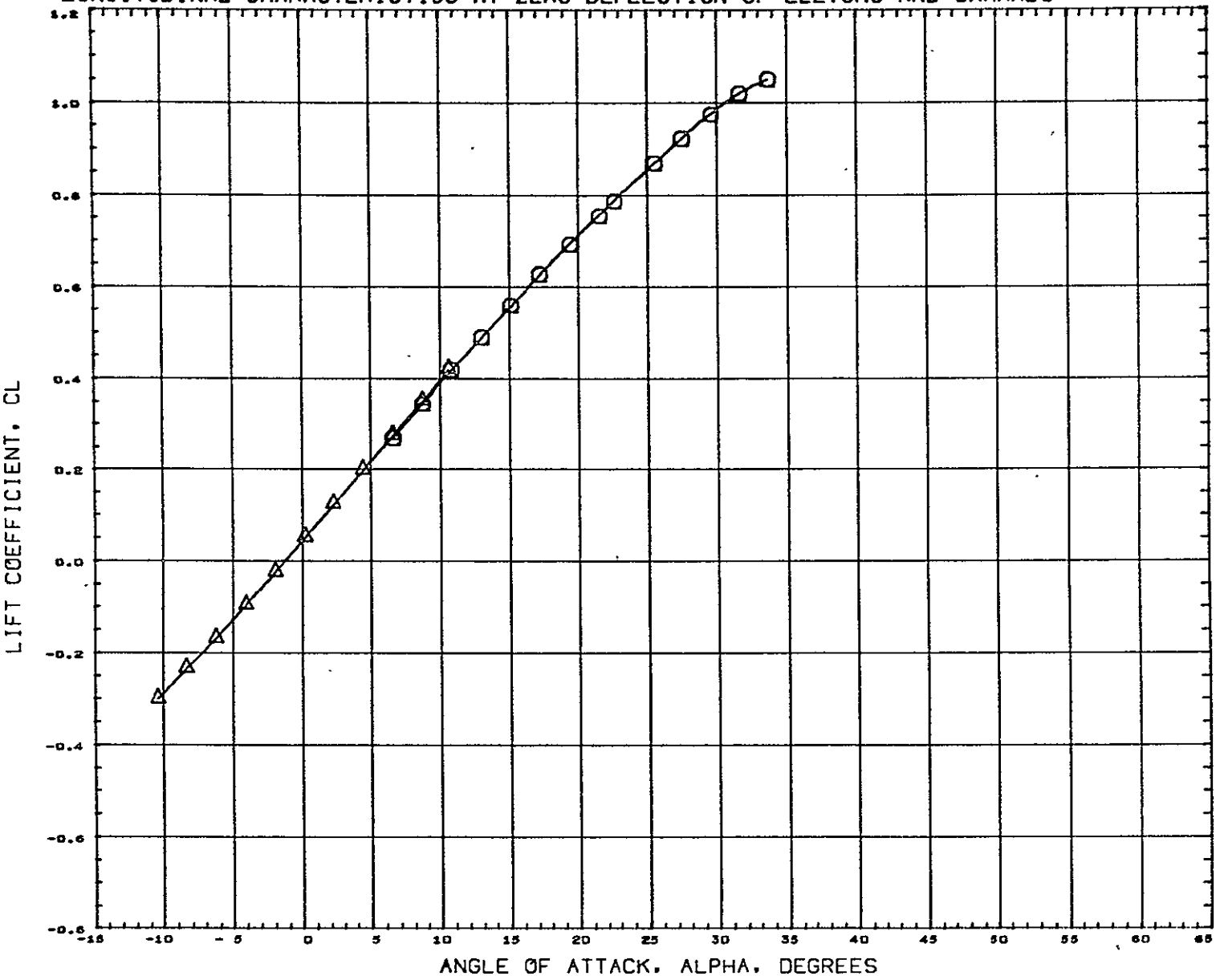


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.462

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

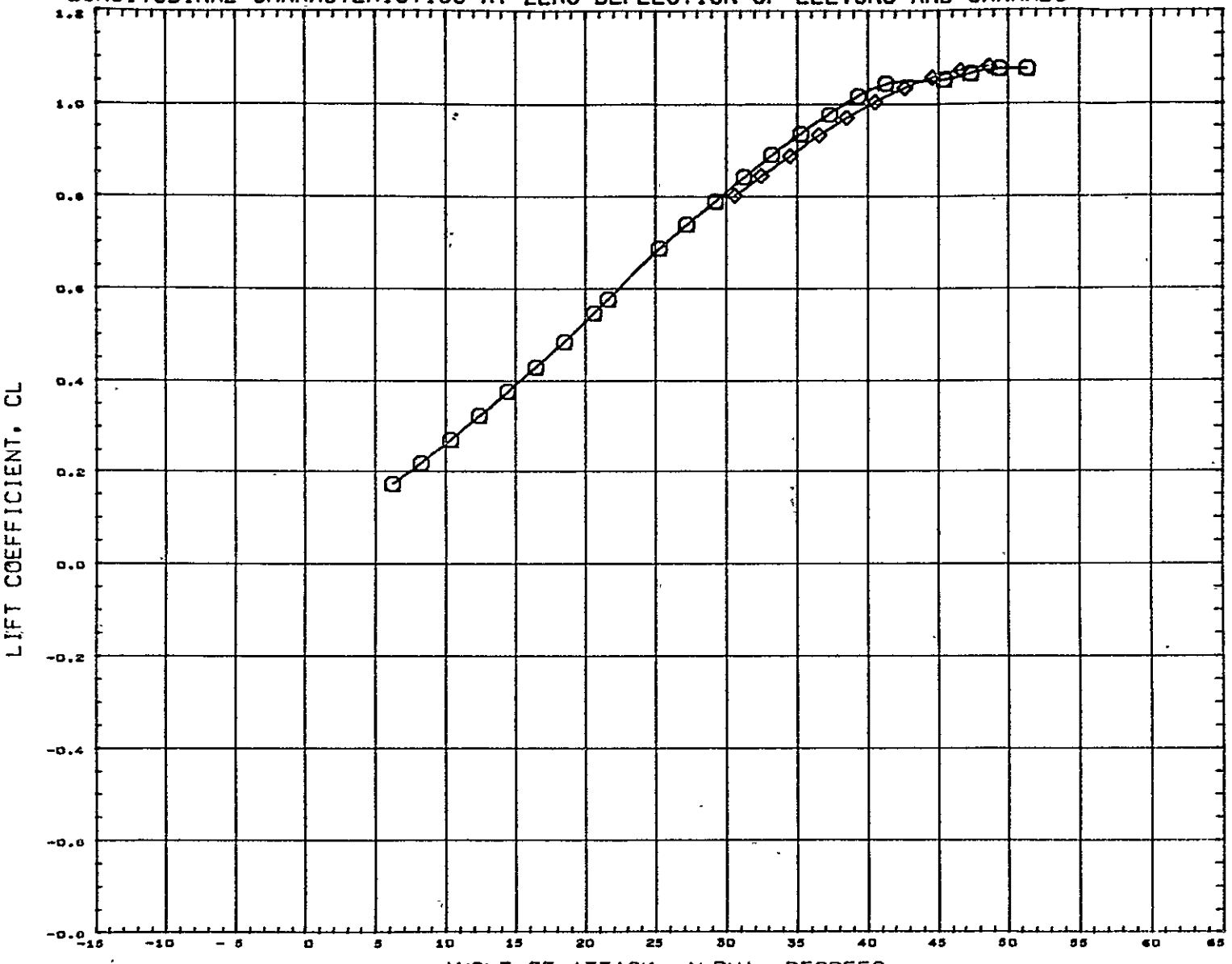


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C26001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E26820)	△	MSFC 461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E26C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

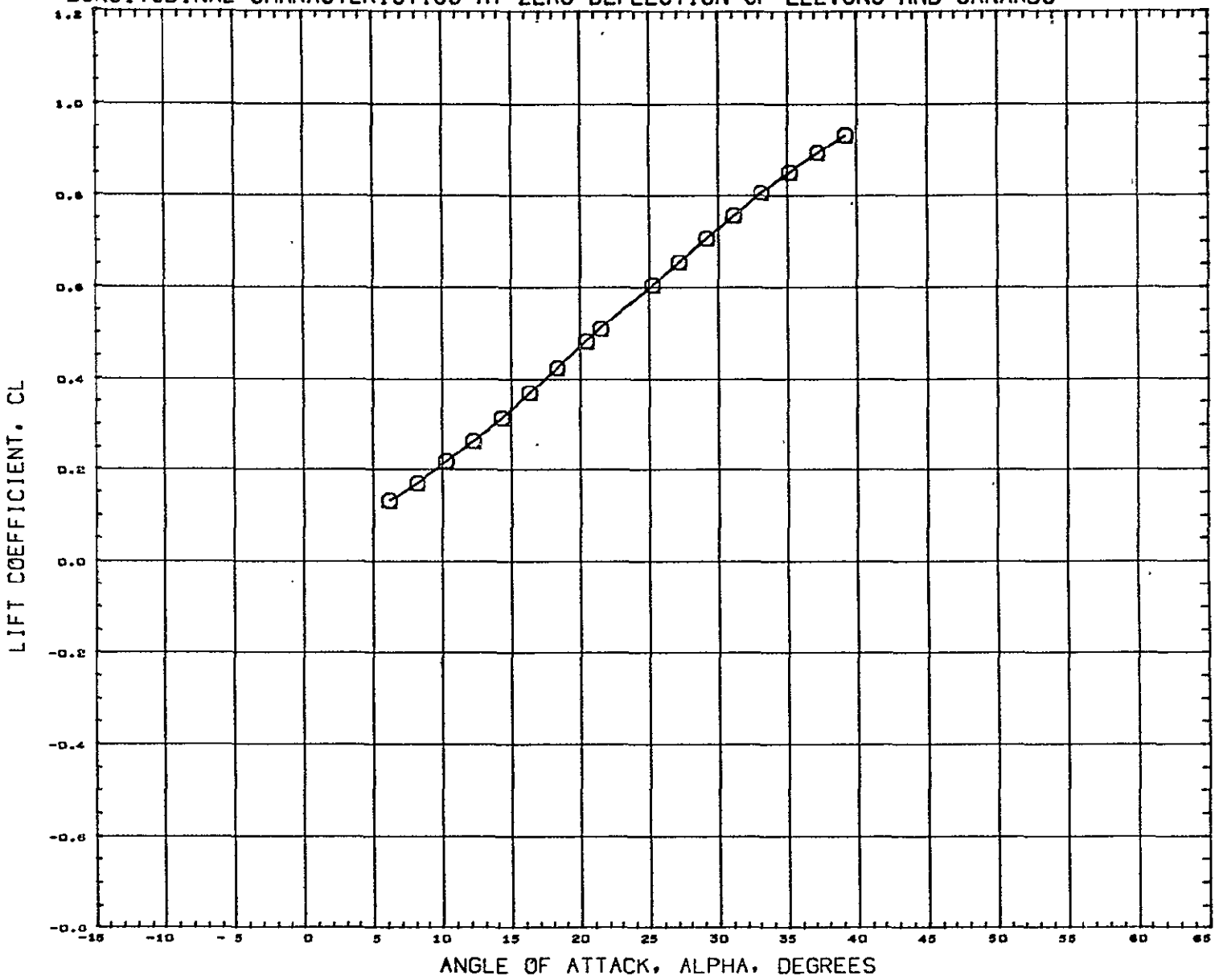


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C26001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E26B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E26C91)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

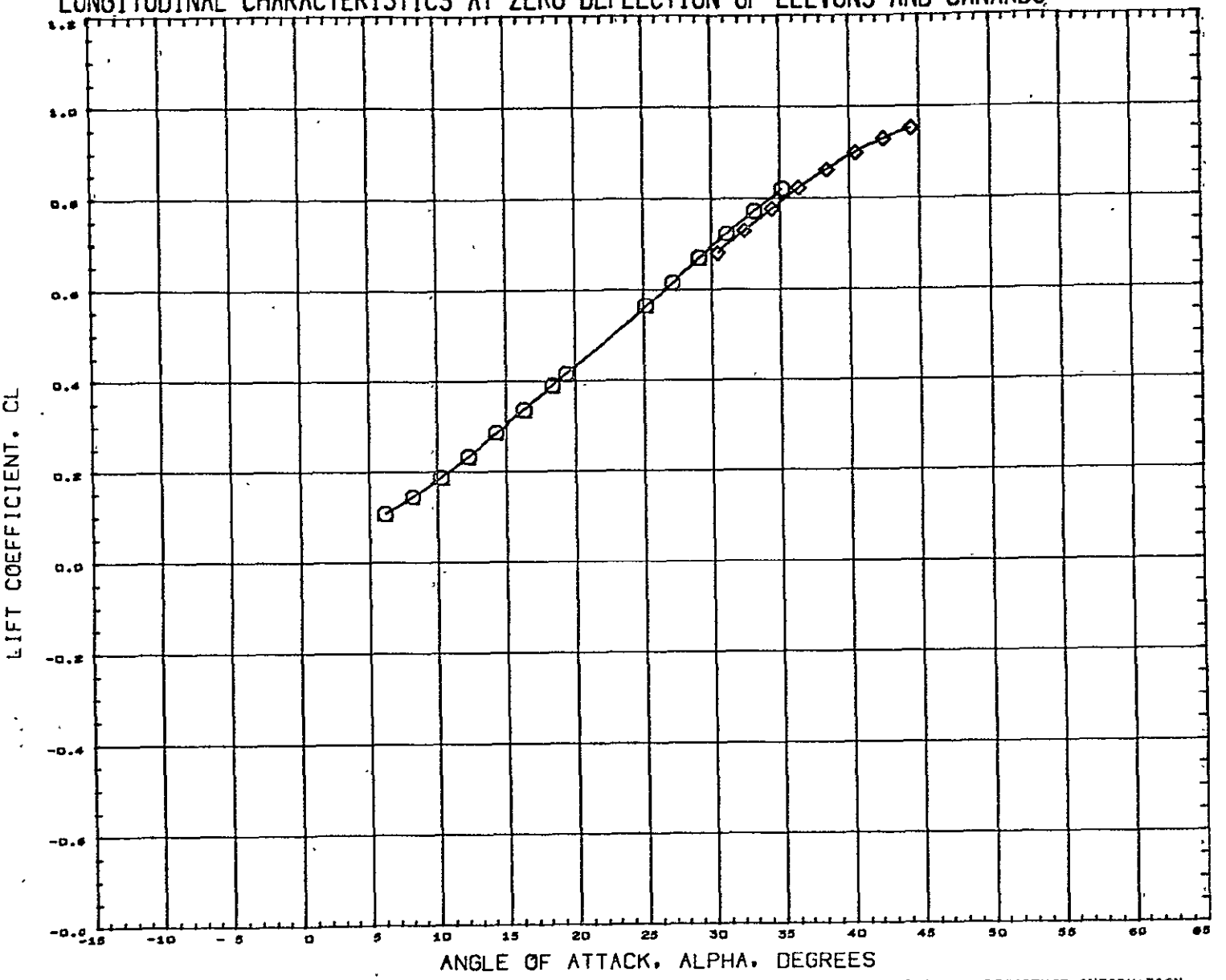


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



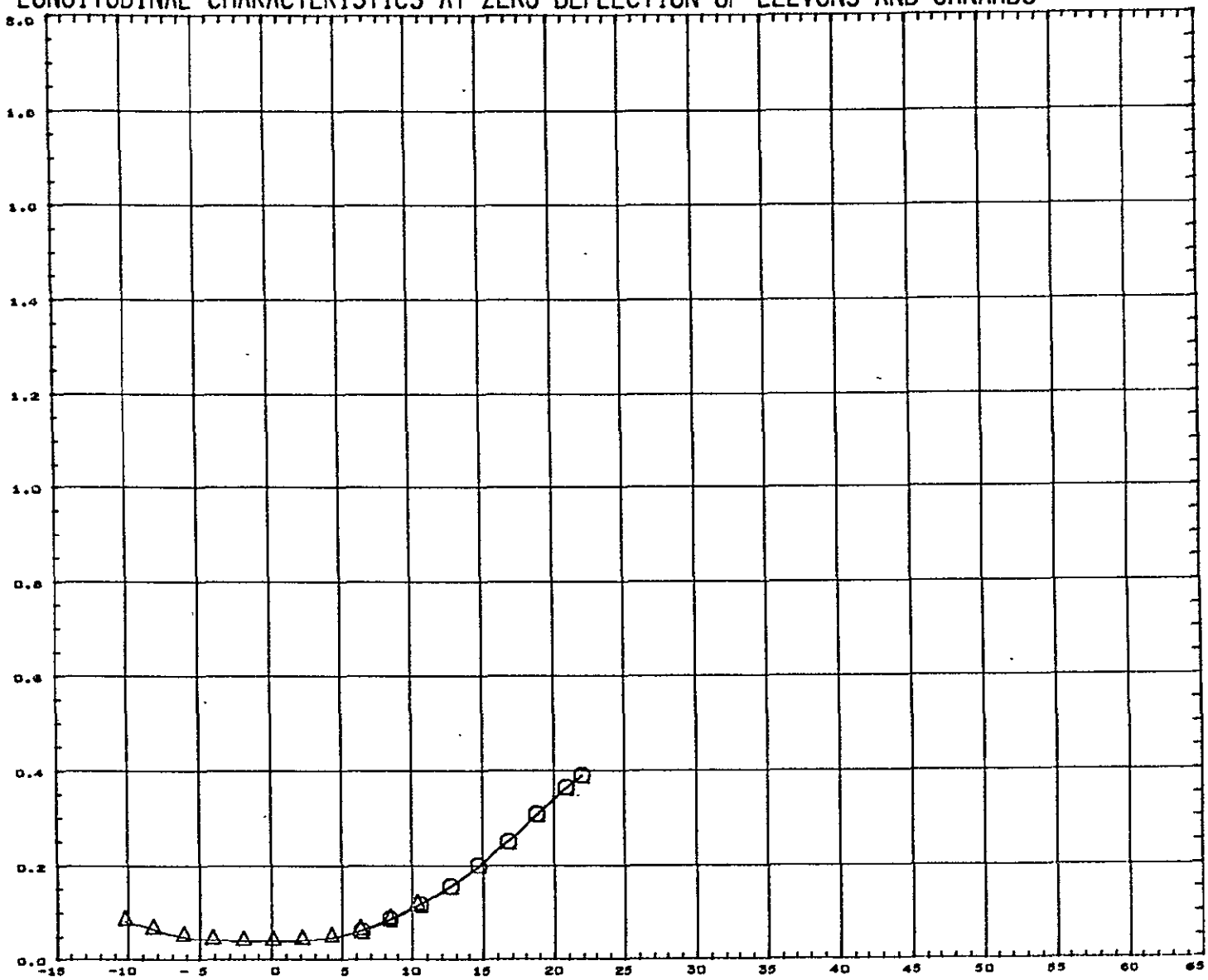
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C26D01)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7
(E26B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E26C51)	◇	MSFC461 GD/C(BOOSTER)B19W14C4A

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

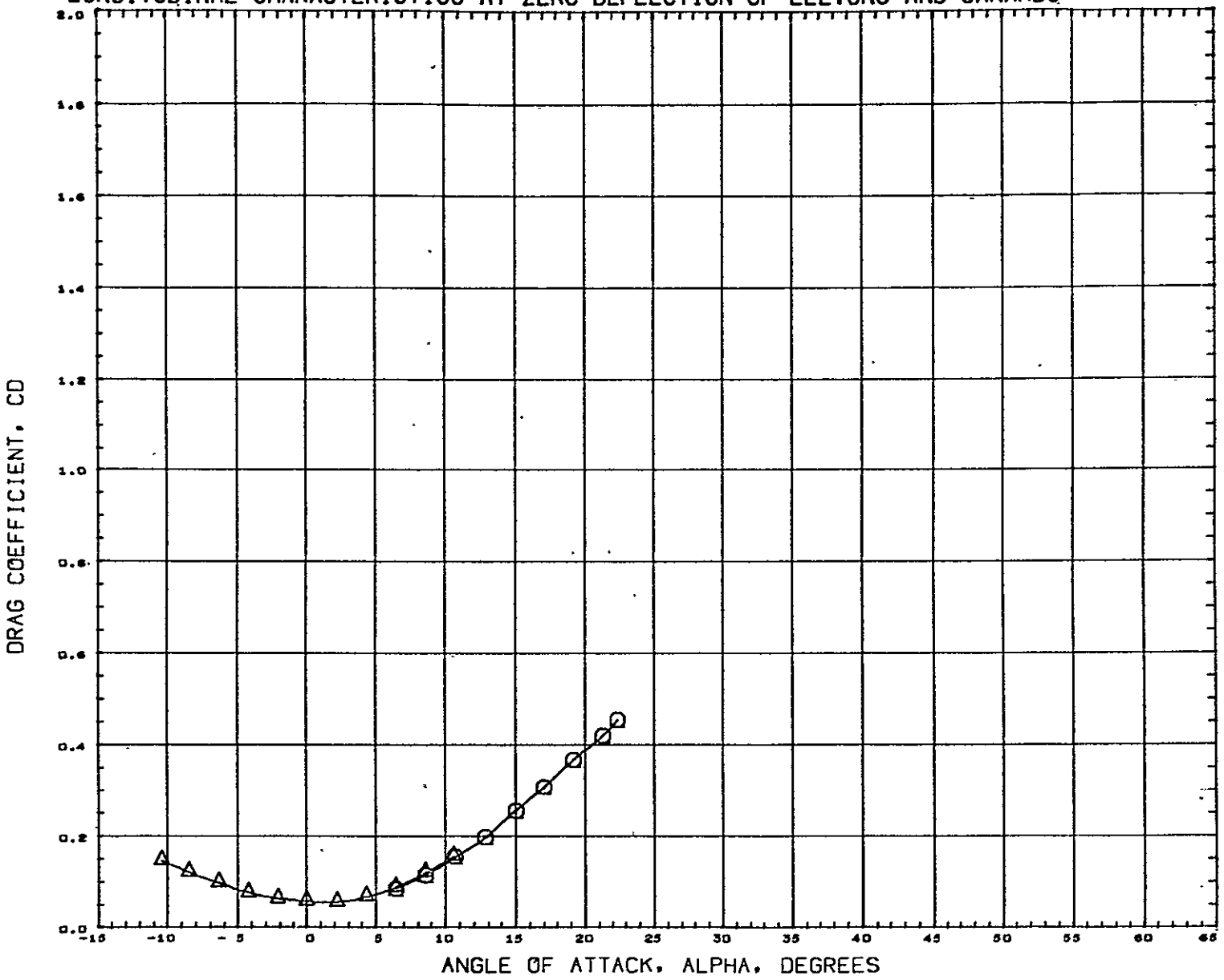


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28DD1)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28BZ0)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

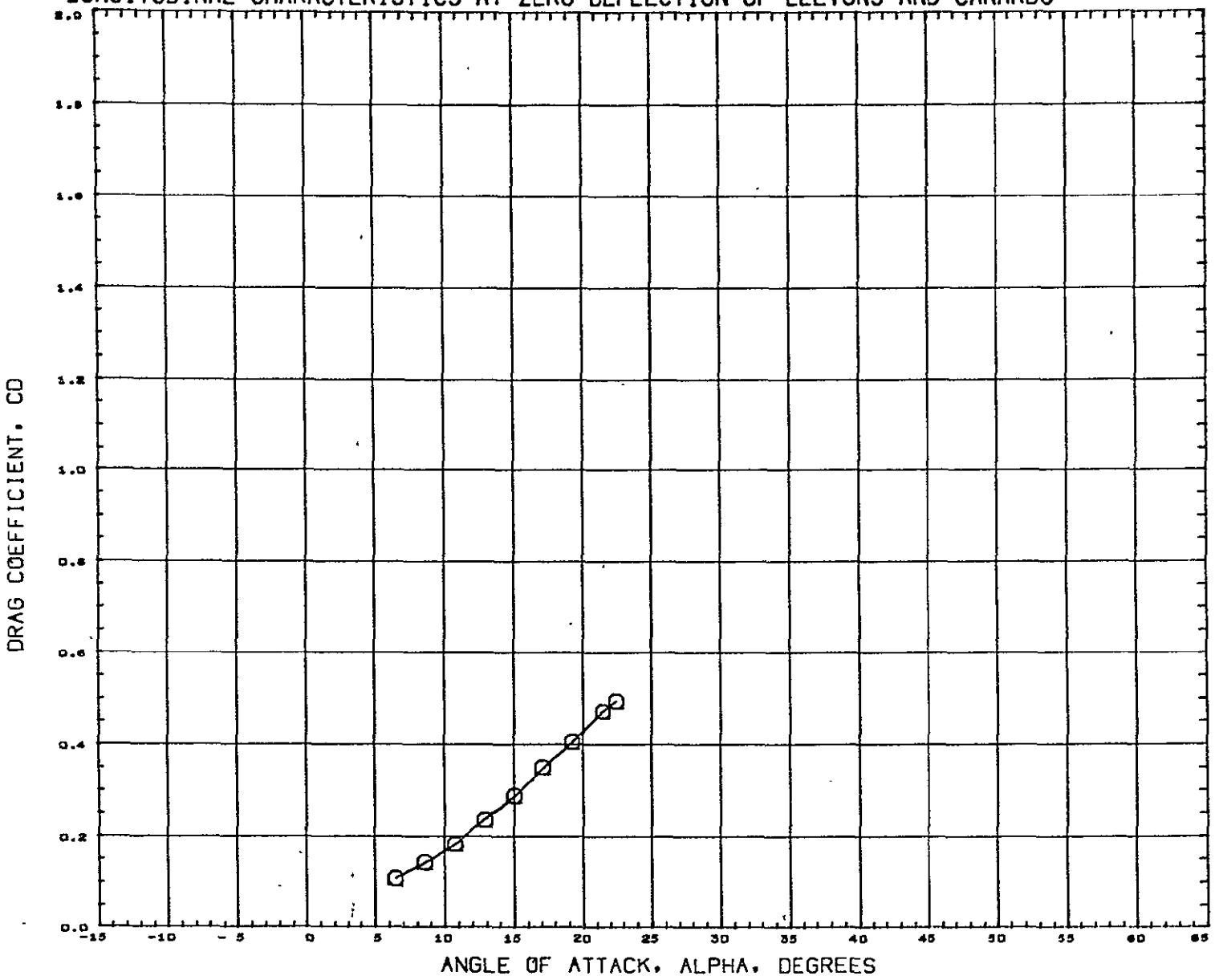


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.900

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

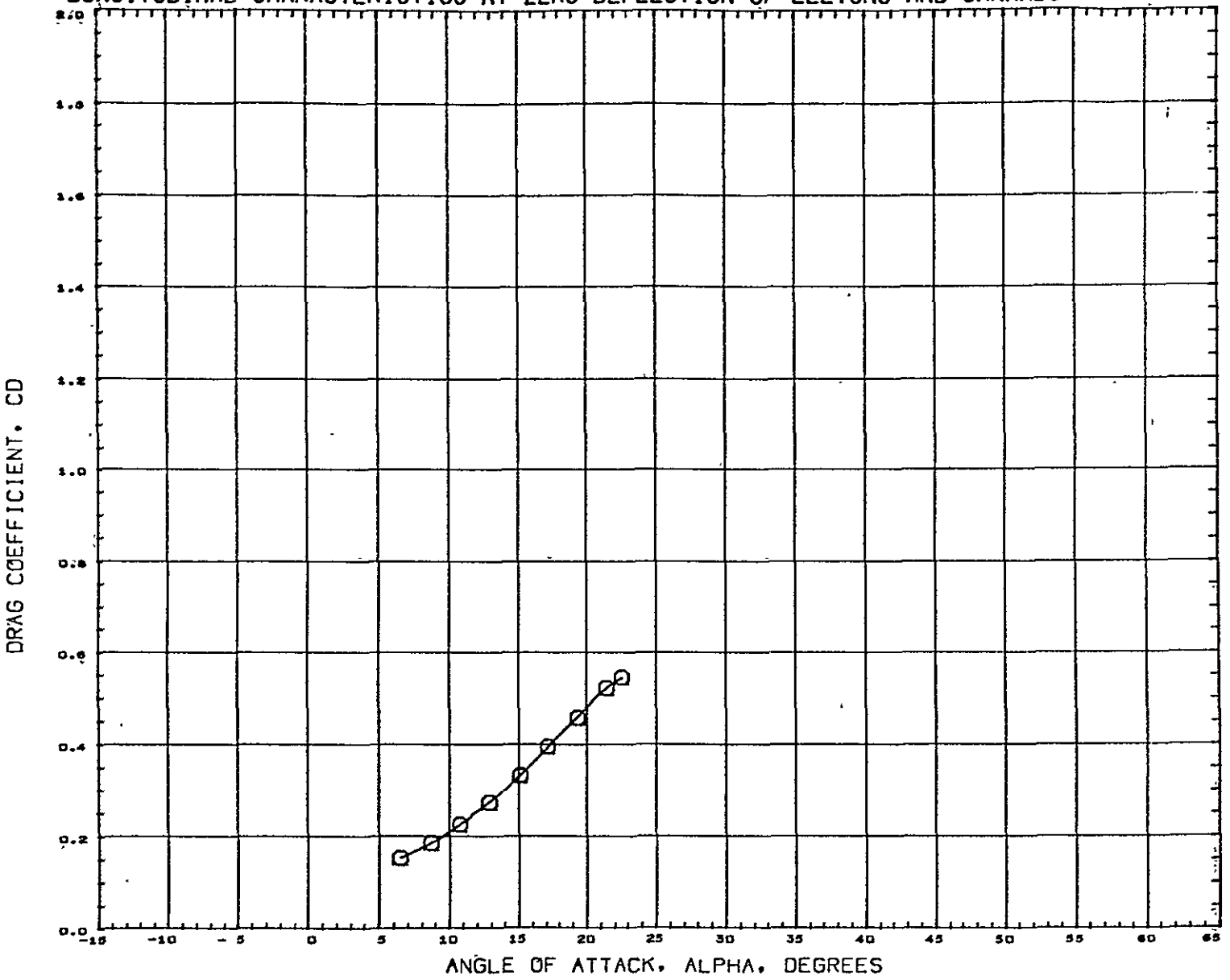


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C26001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28020)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.954

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

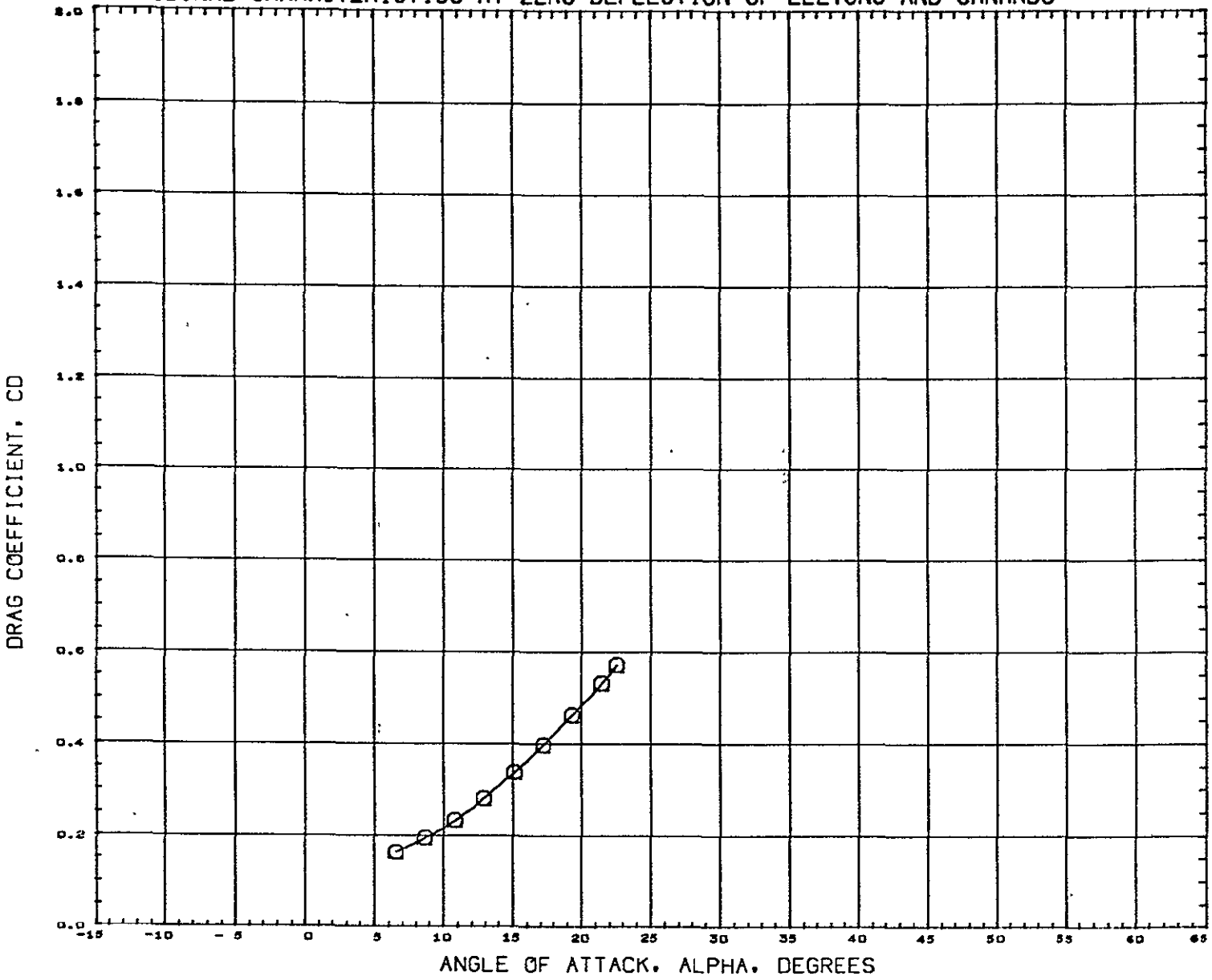


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

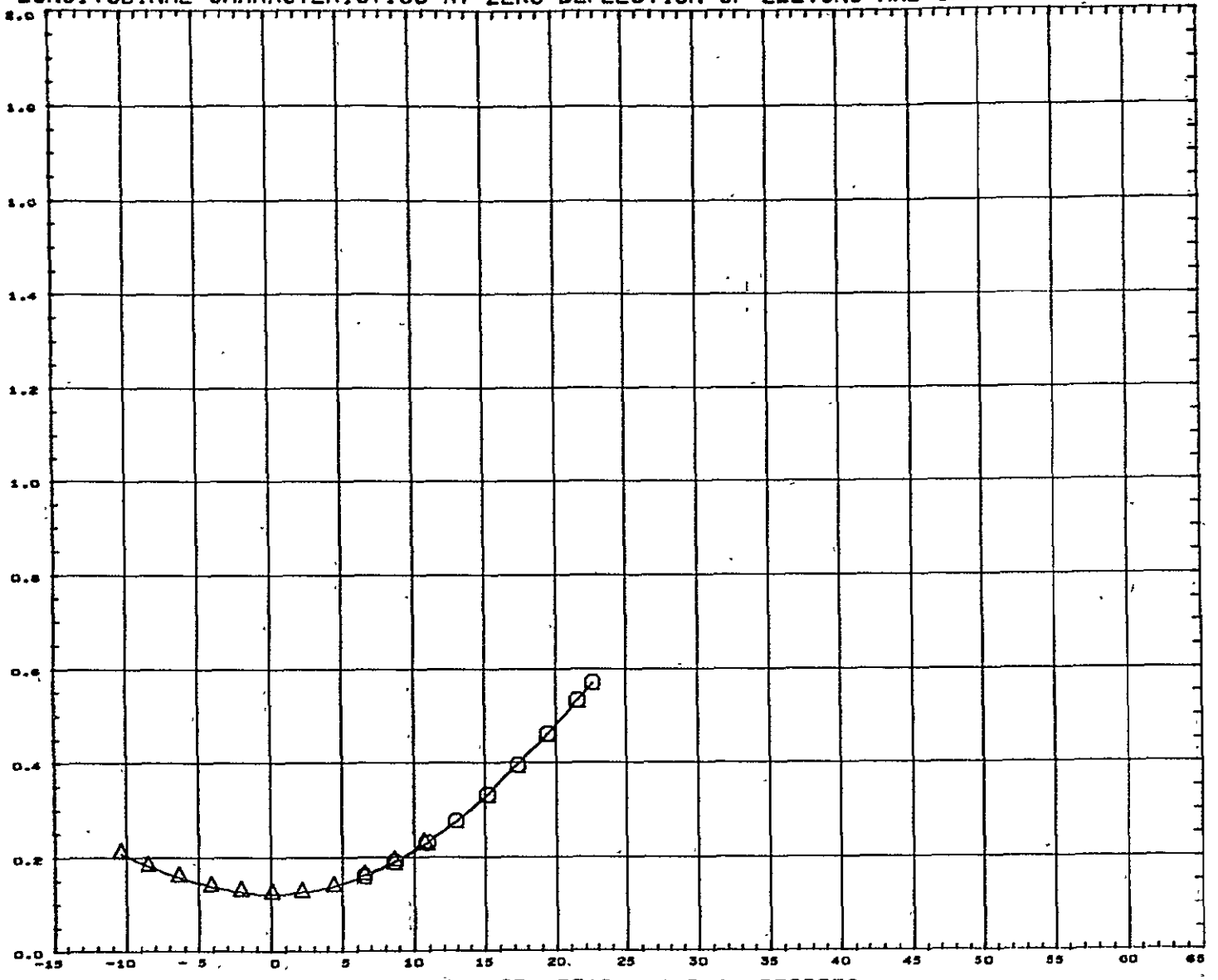


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

MACH 1.051

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

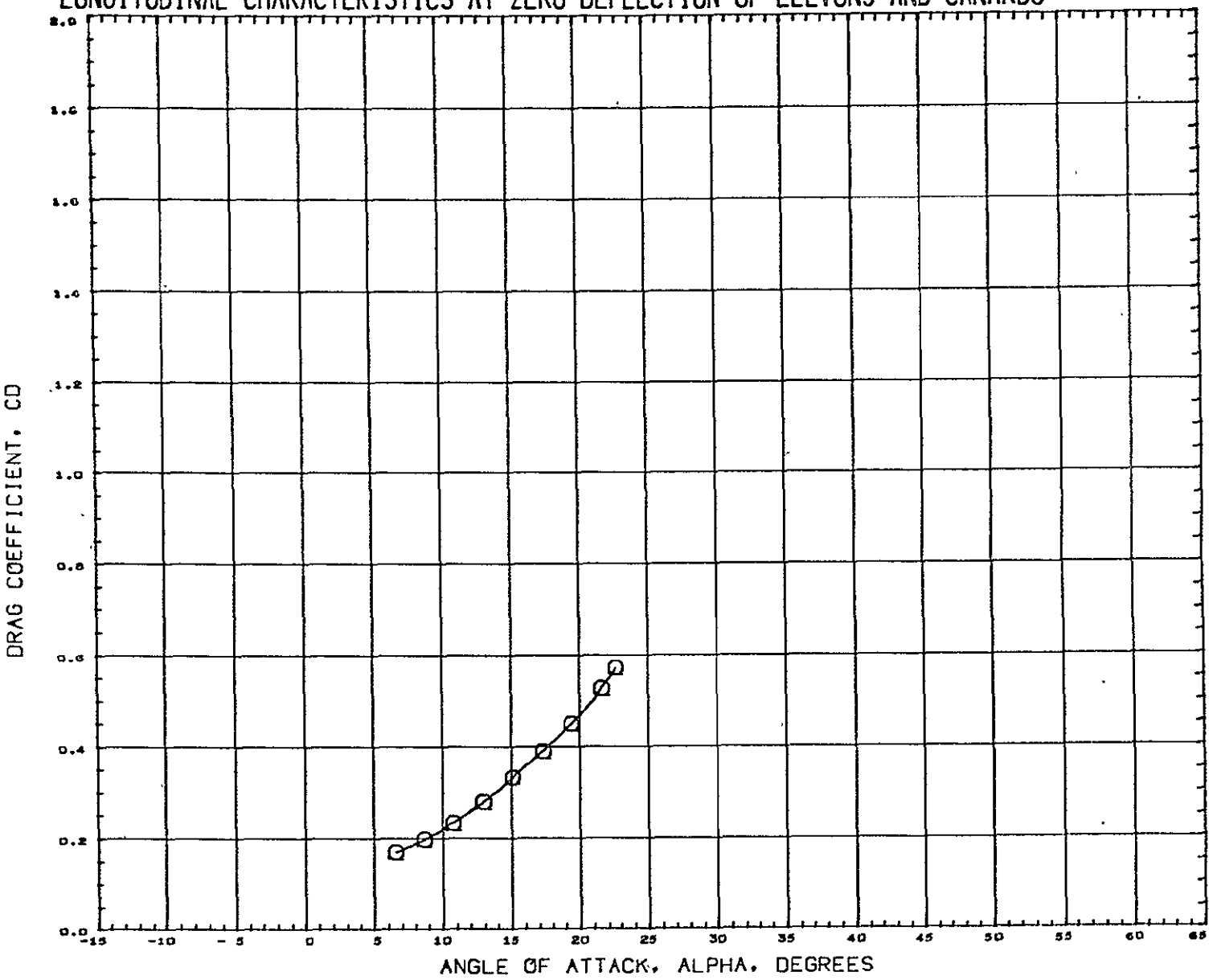


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.105

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



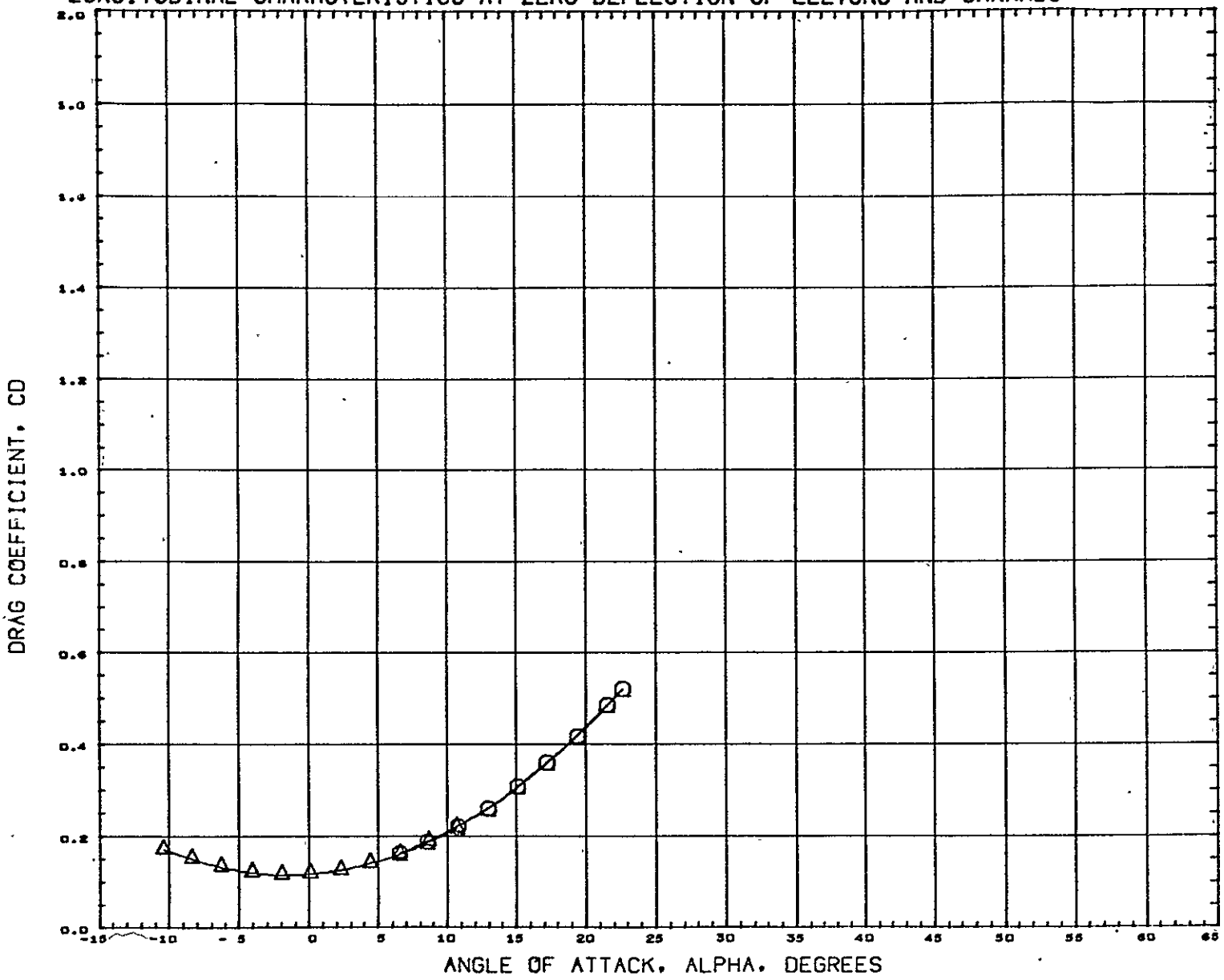
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

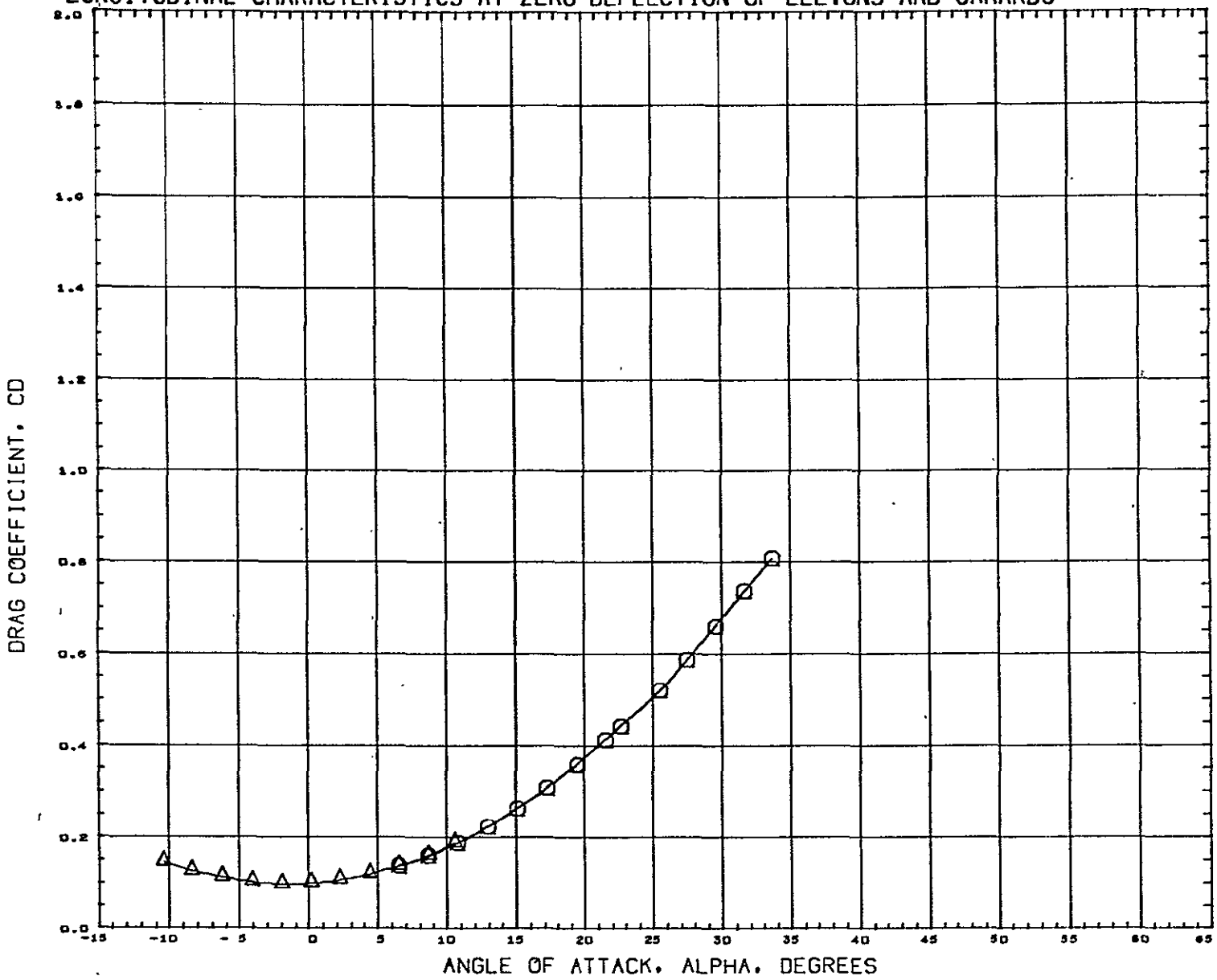


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C26001)	○	HSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E29820)	△	HSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.462

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

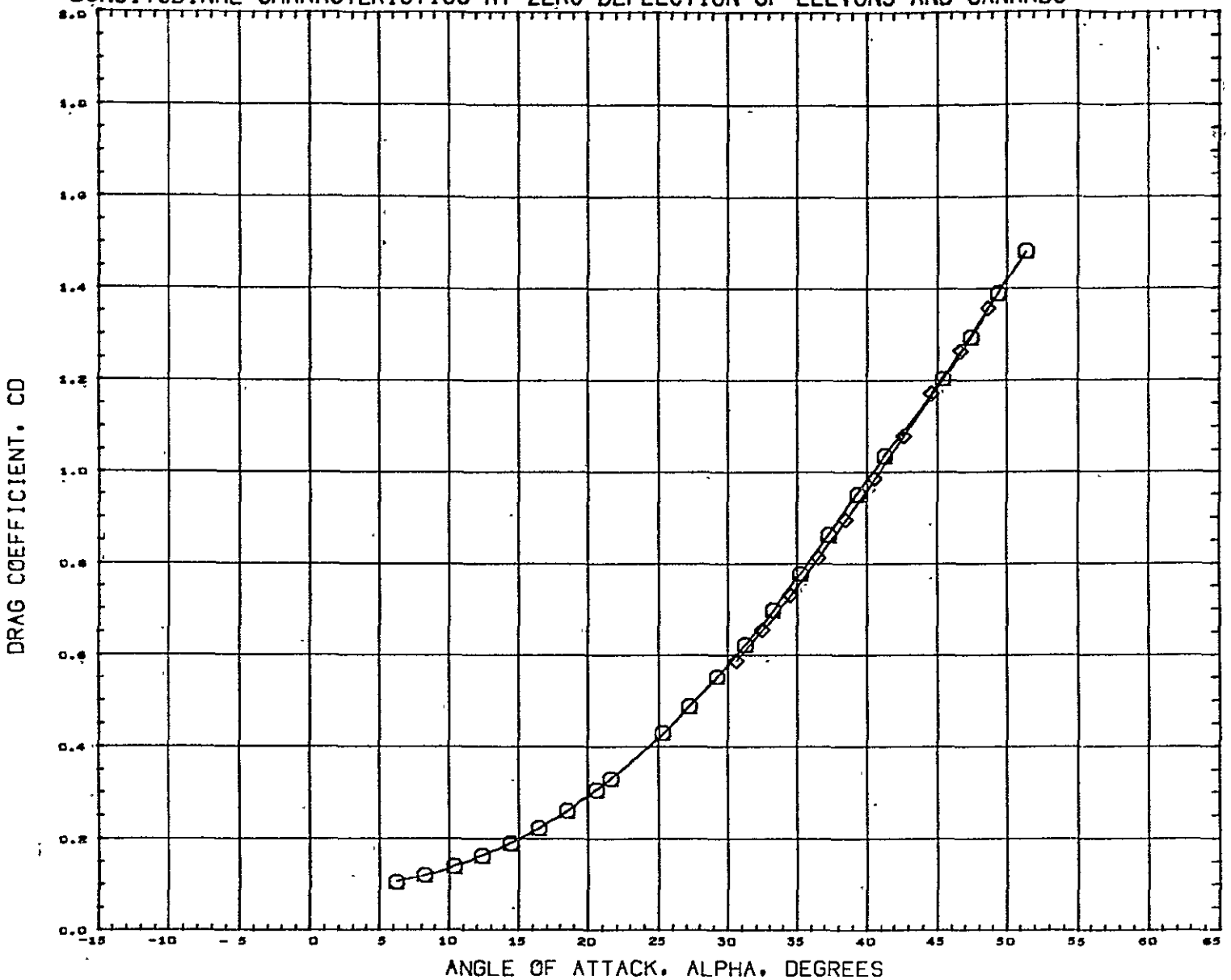


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C31)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

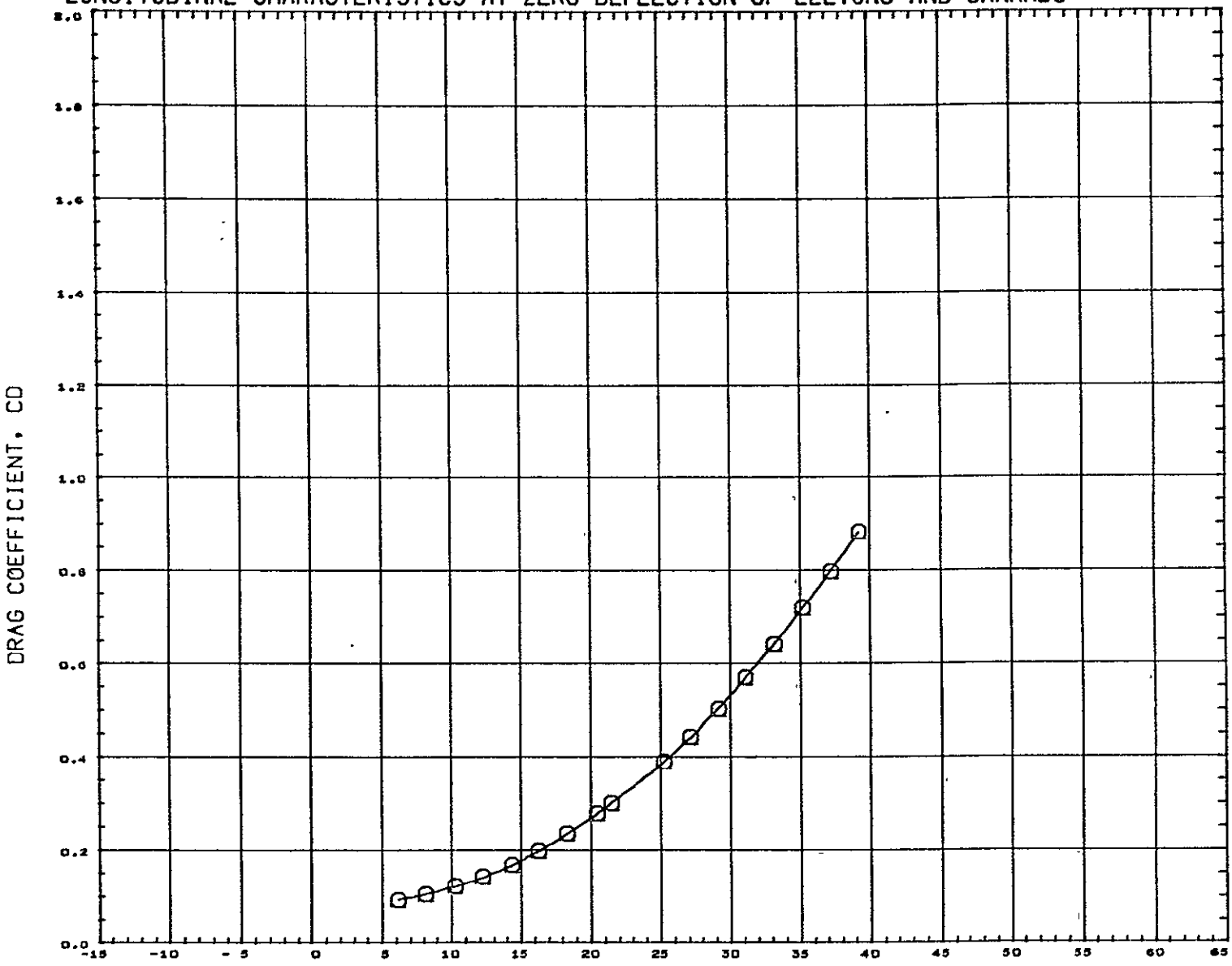


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

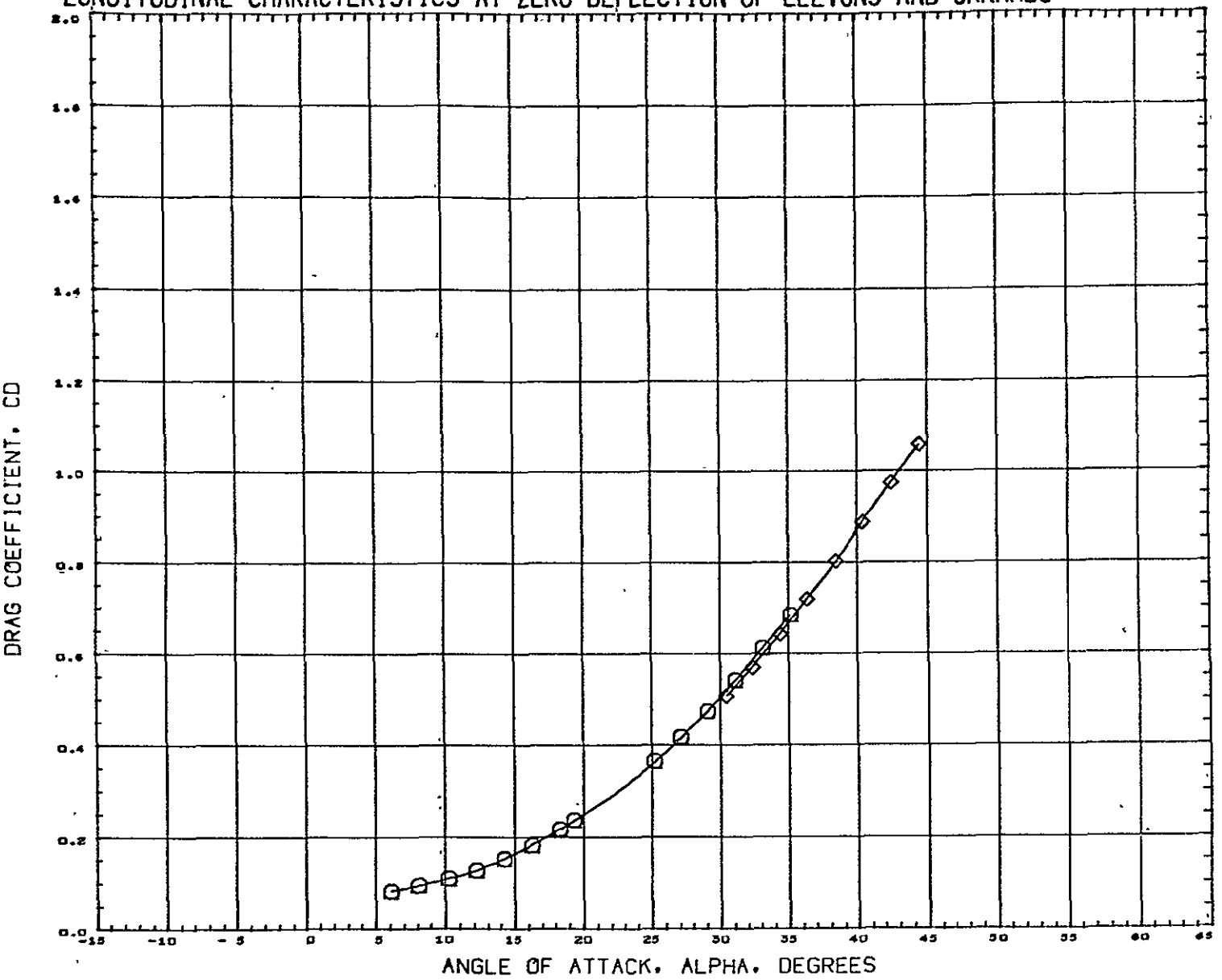


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0055	

MACH 4.000

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

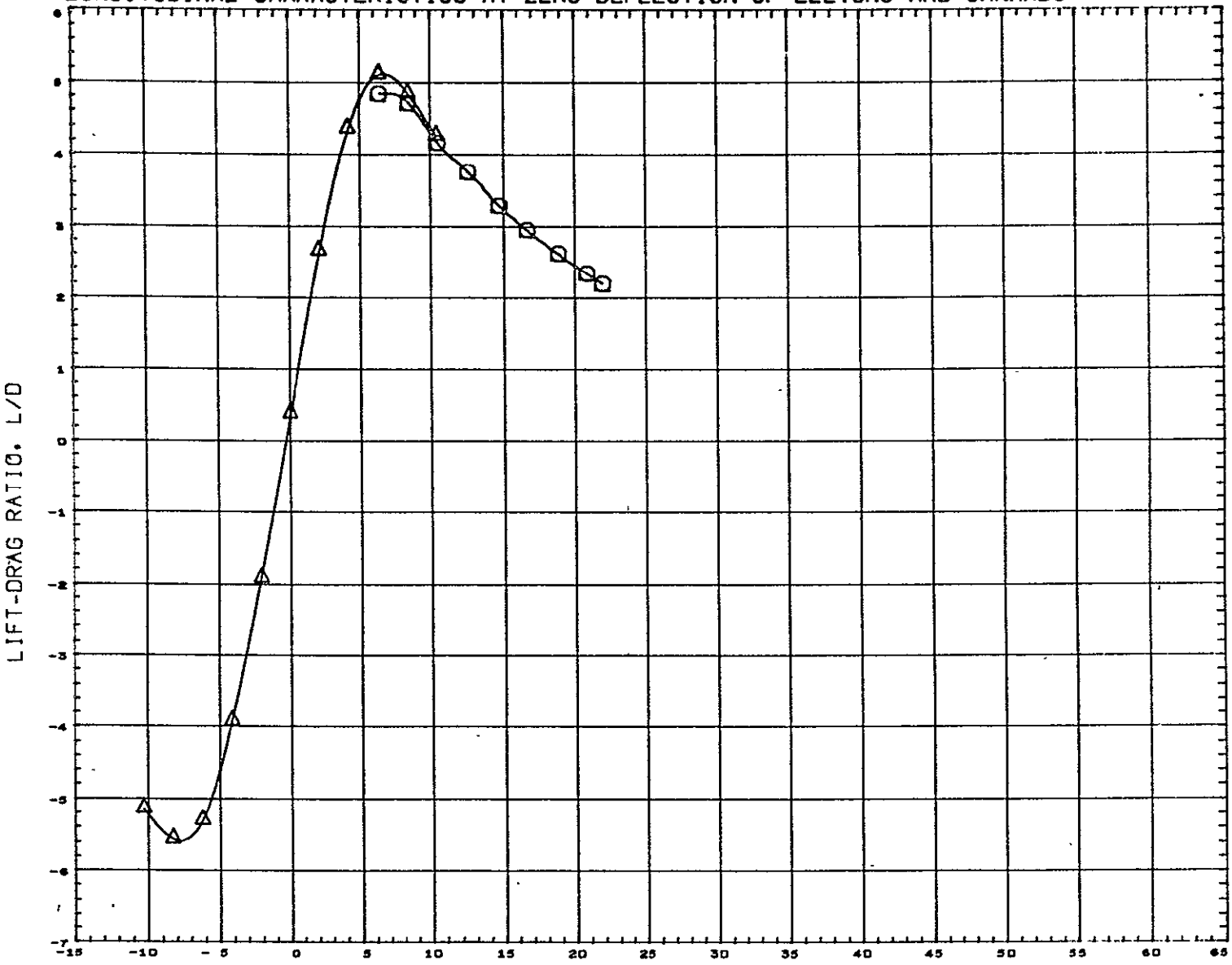


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

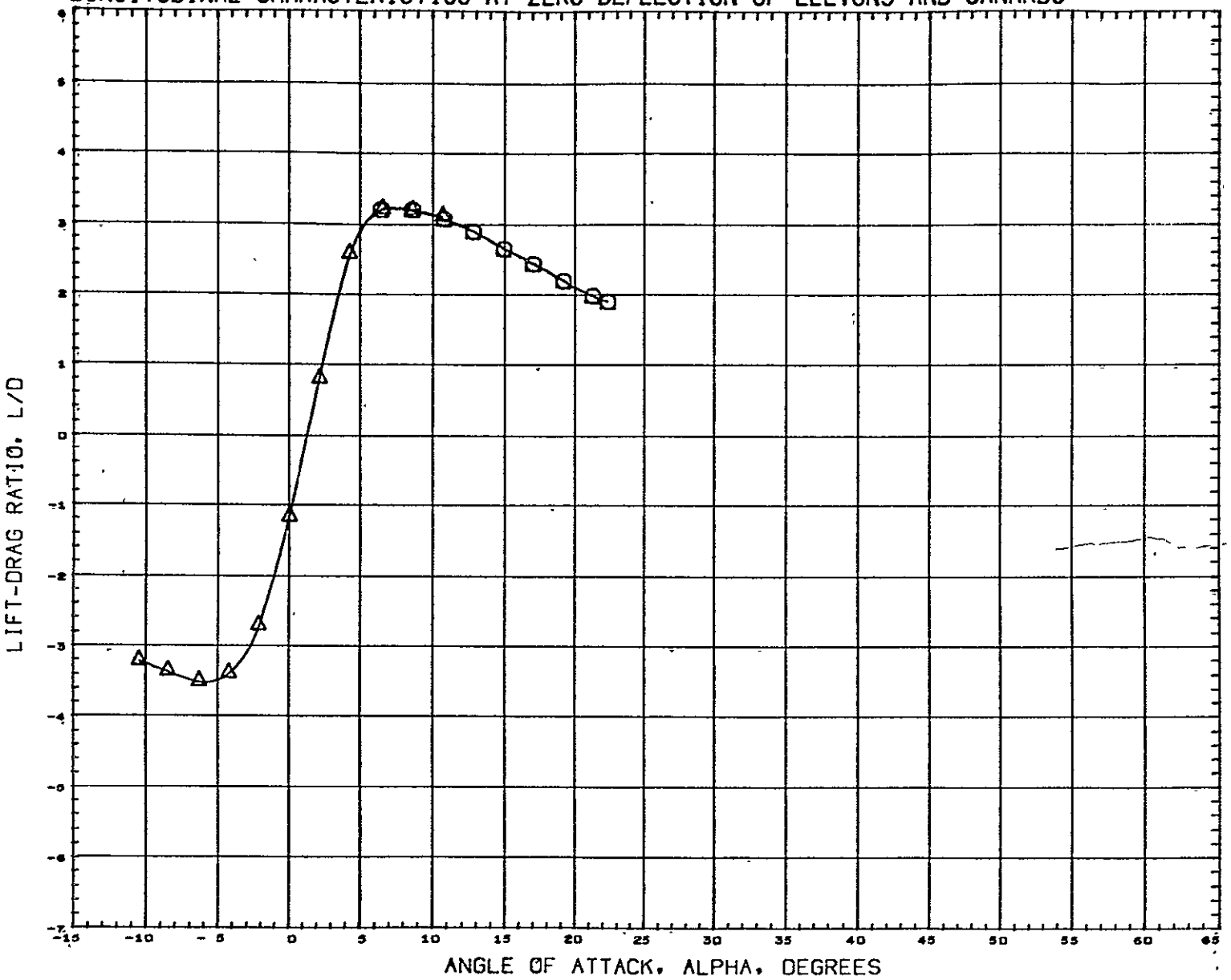


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28020)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



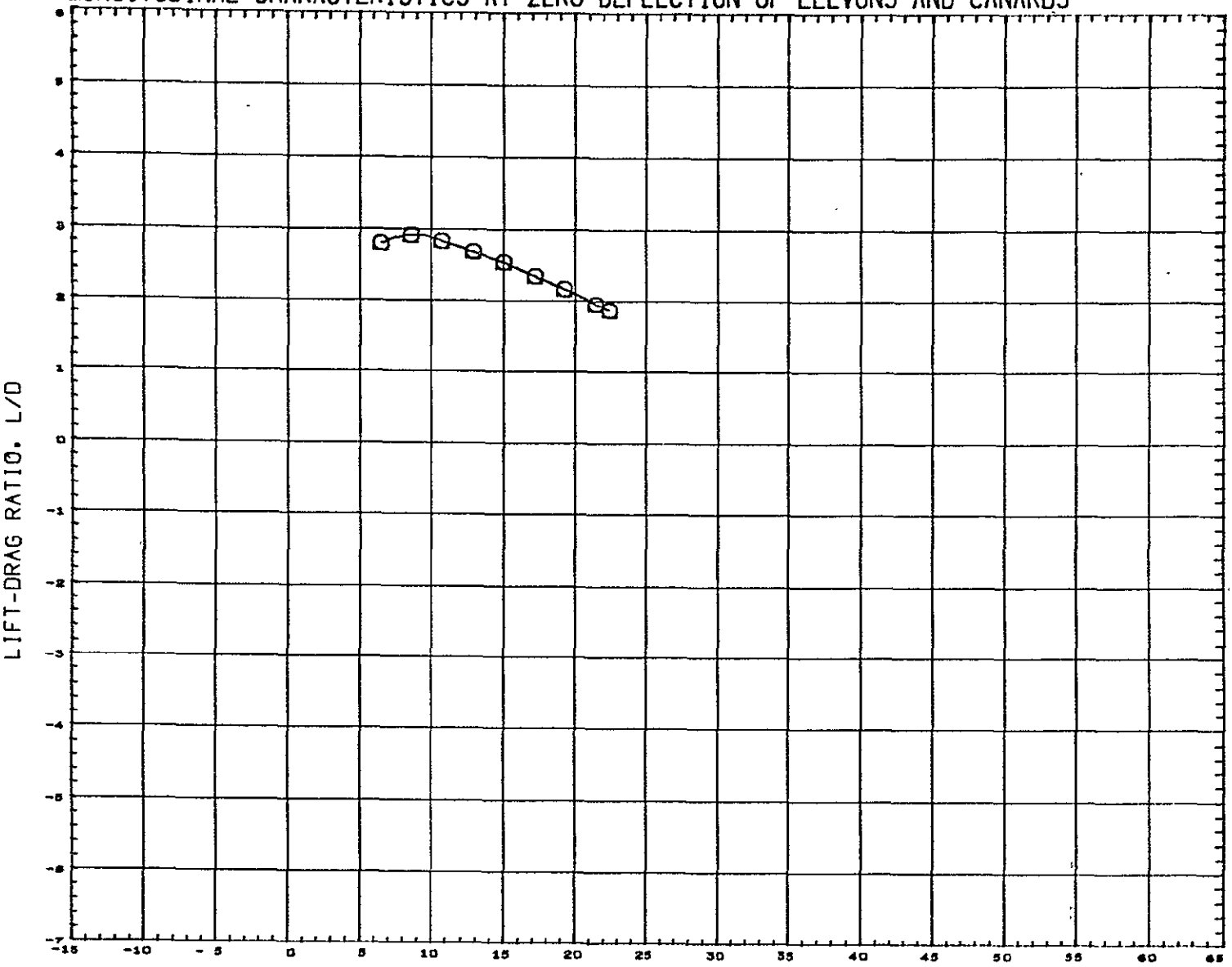
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

MACH 0.900

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

30

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



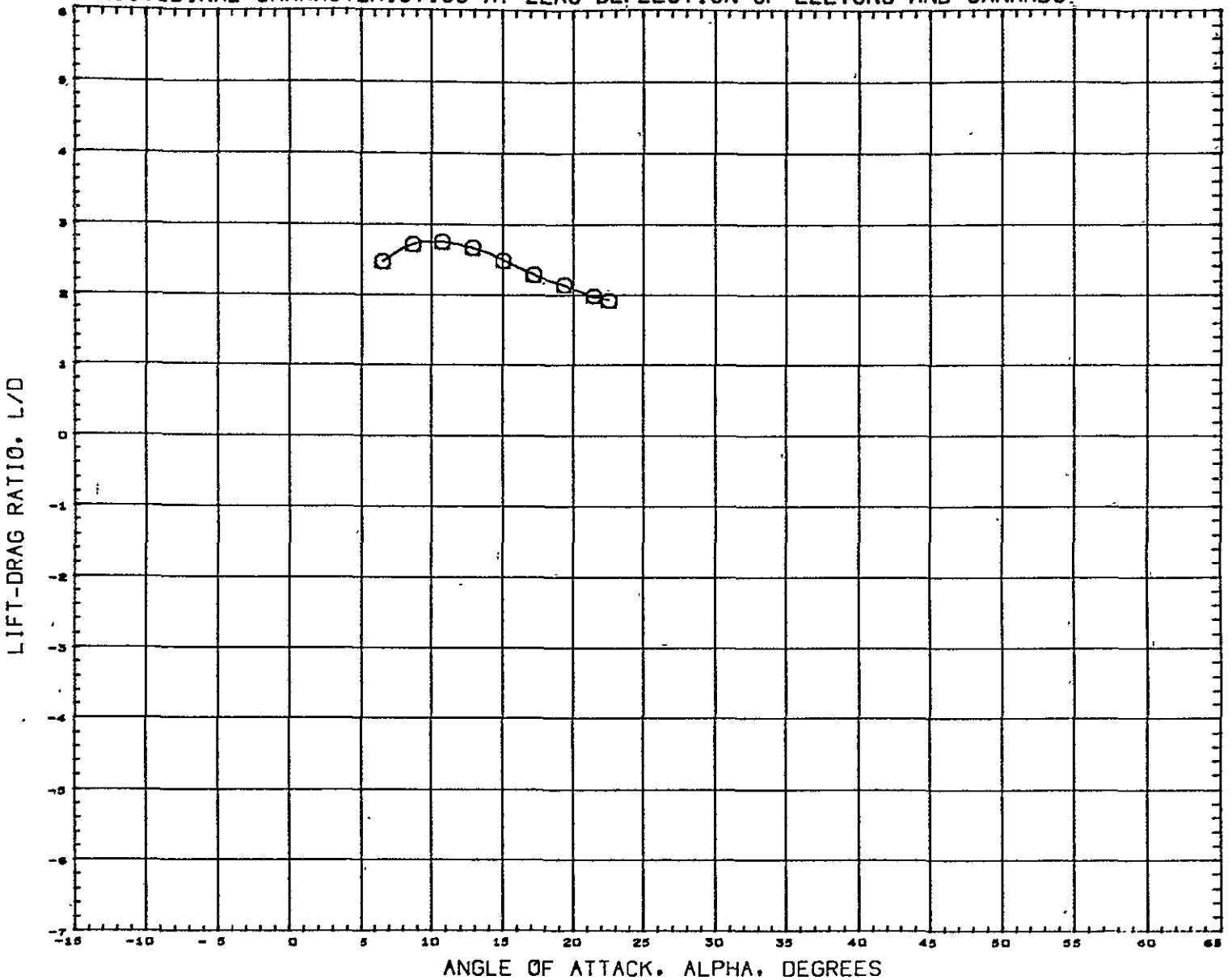
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.954

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS.

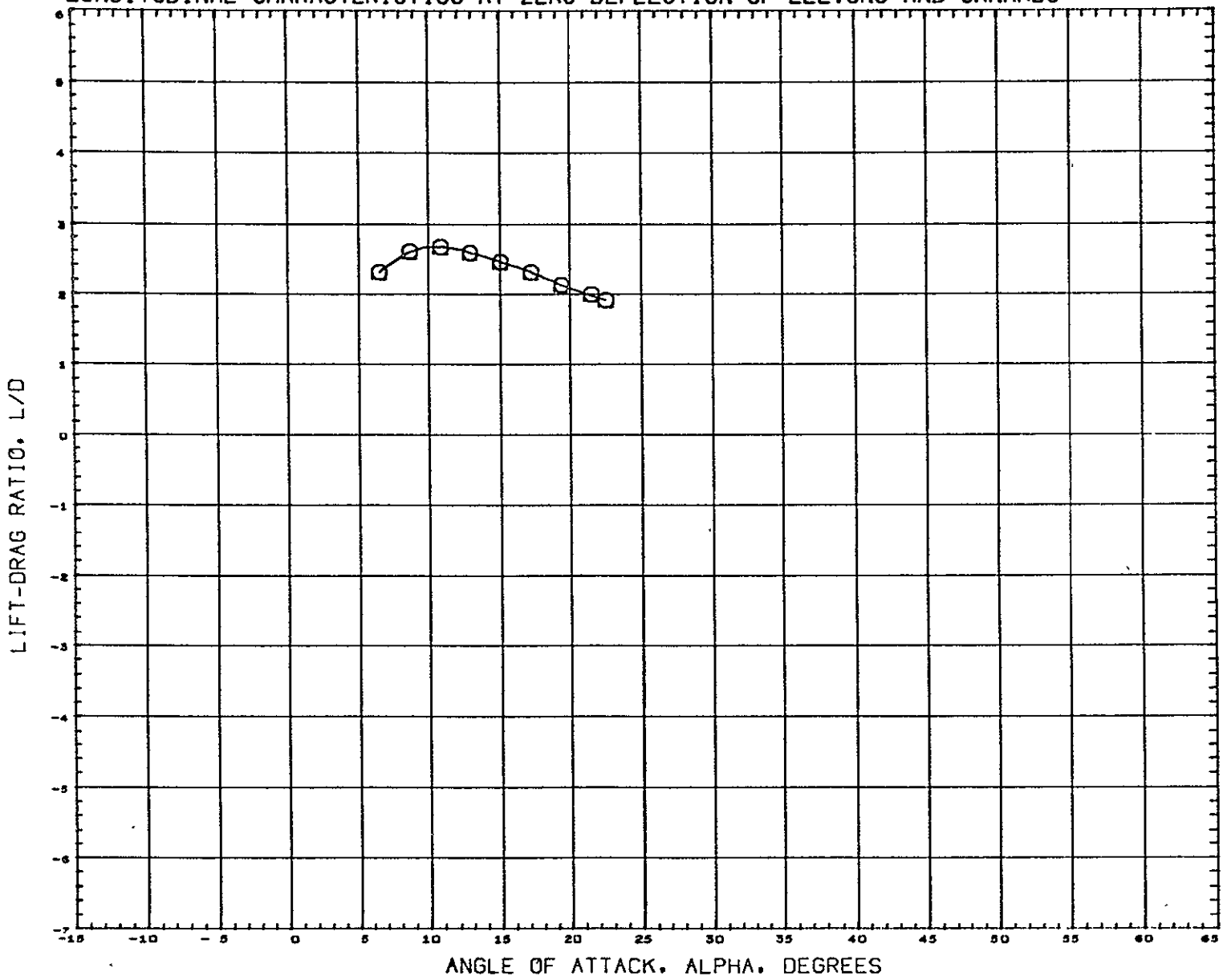


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

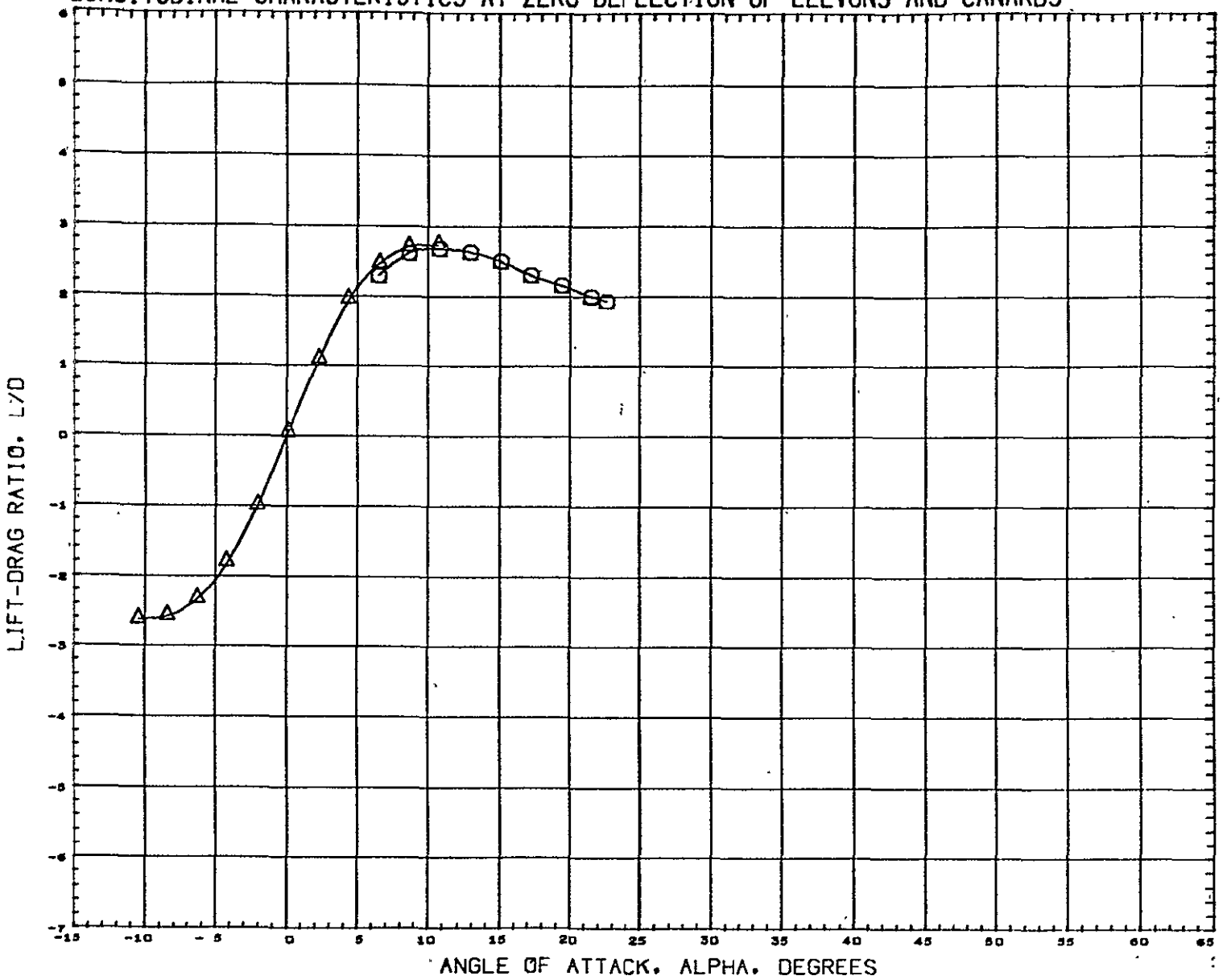


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C26001)	○	MSFC401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



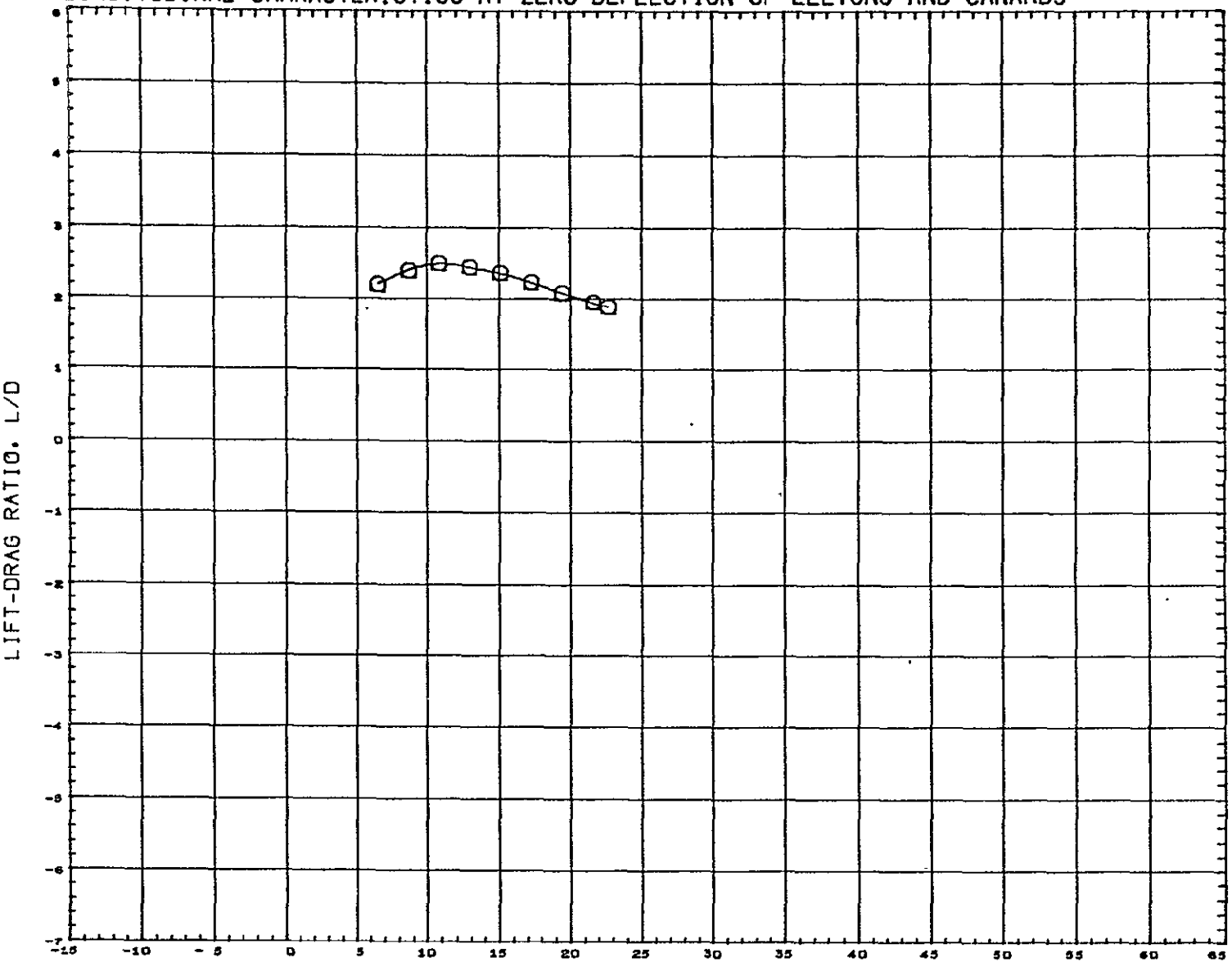
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7
(E28B20)	△	MSFC 461 GD/C(BOOSTER)B19W14C4AV7
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.105

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



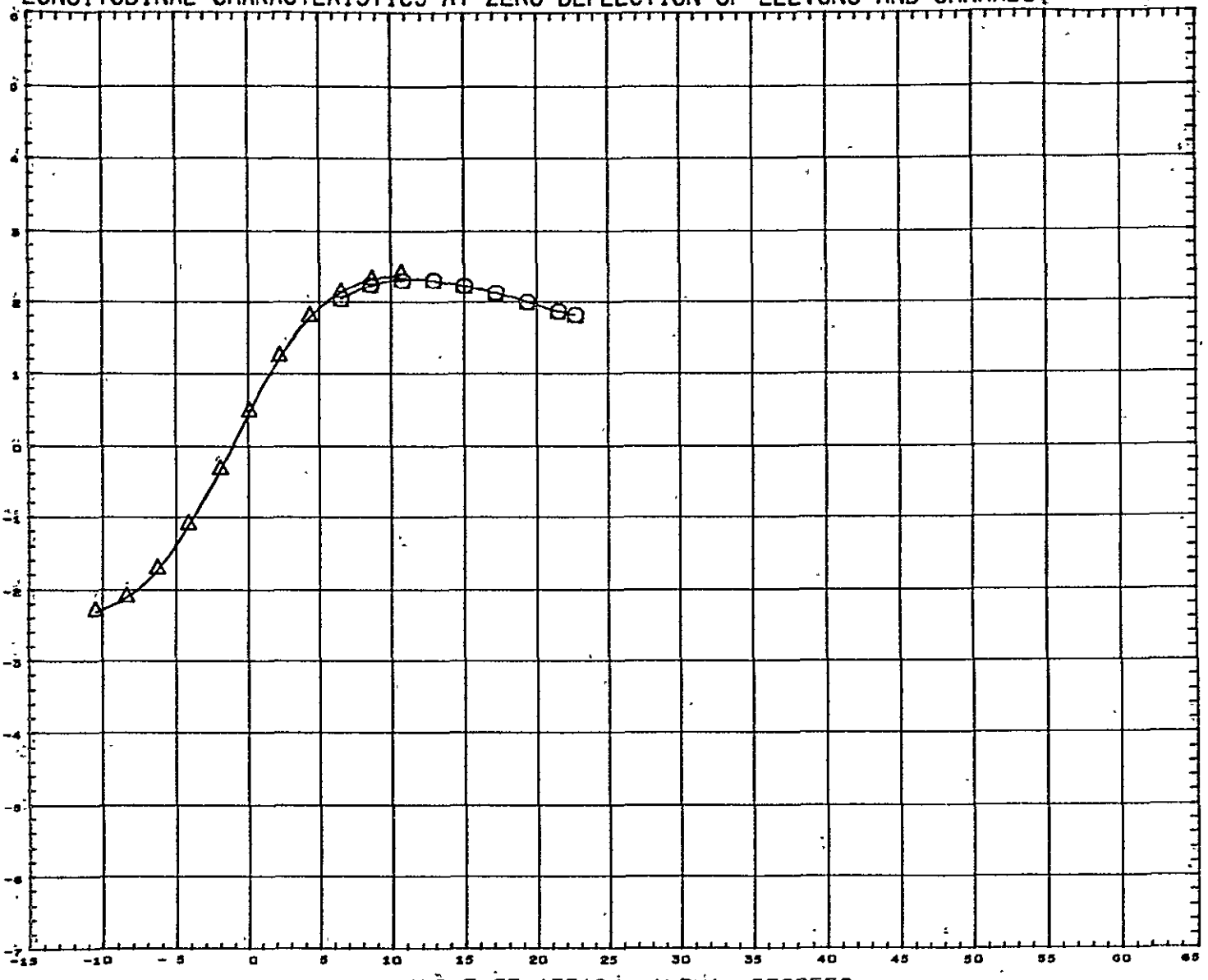
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS.

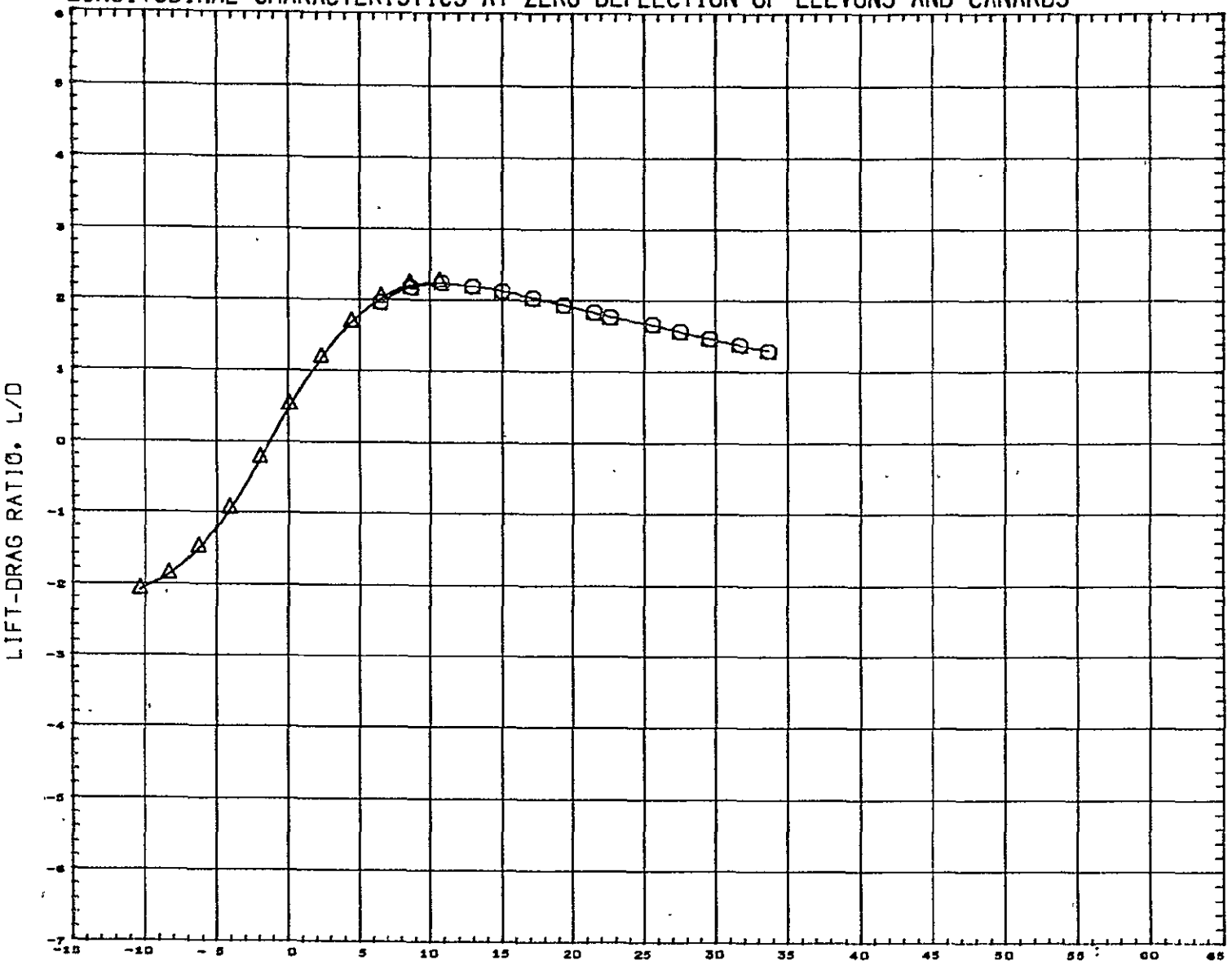


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.462

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



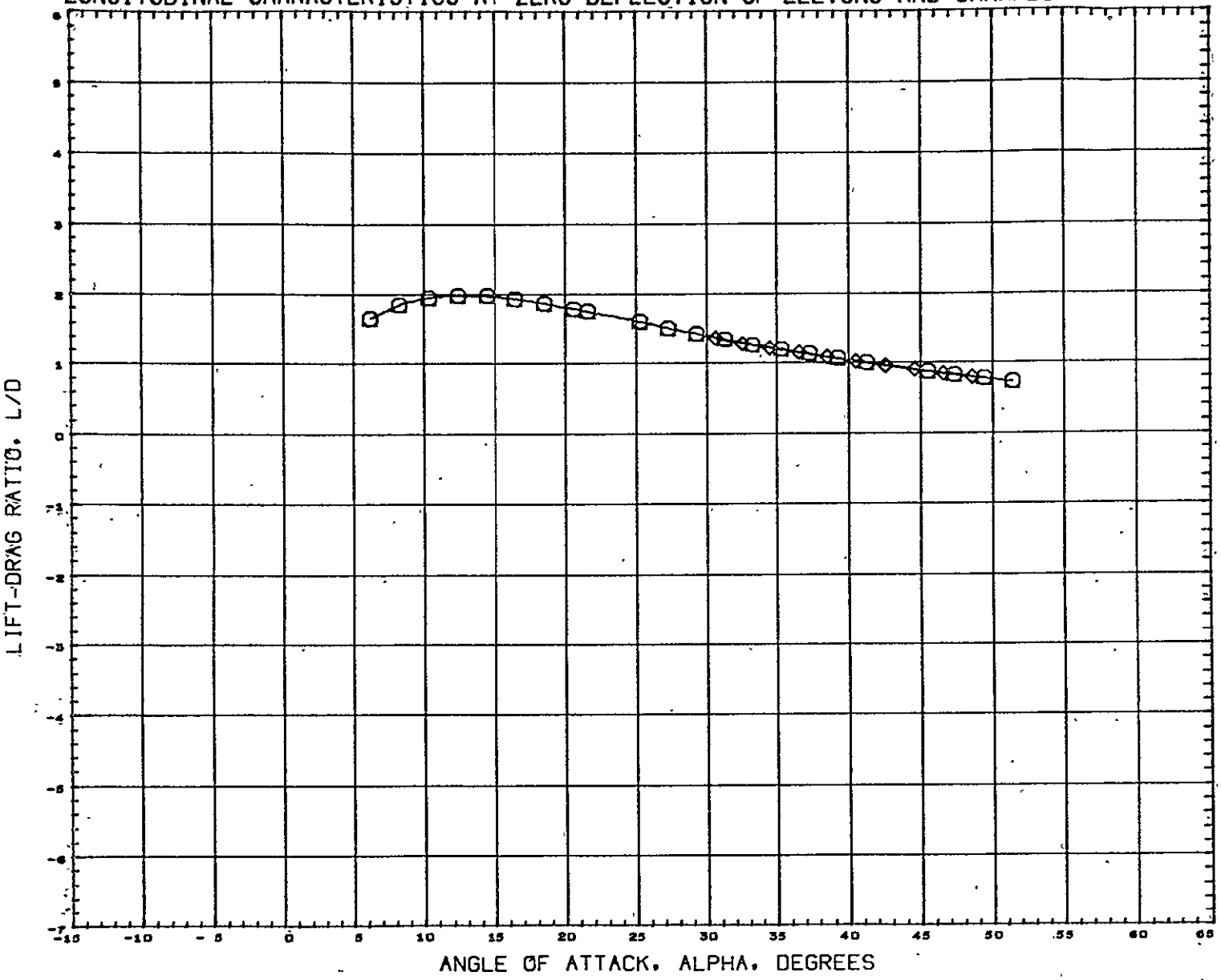
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E28B20)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

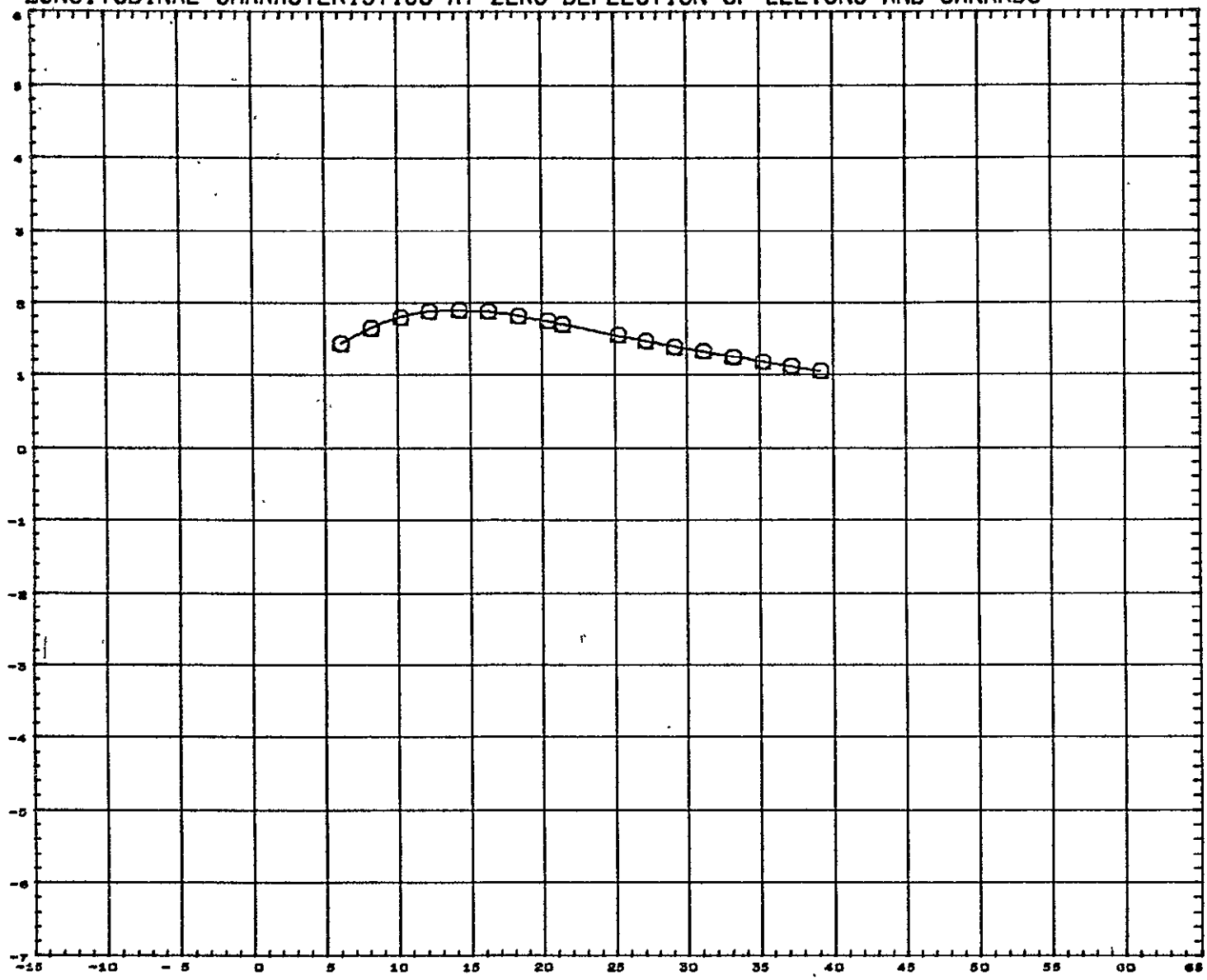


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C26001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	8.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

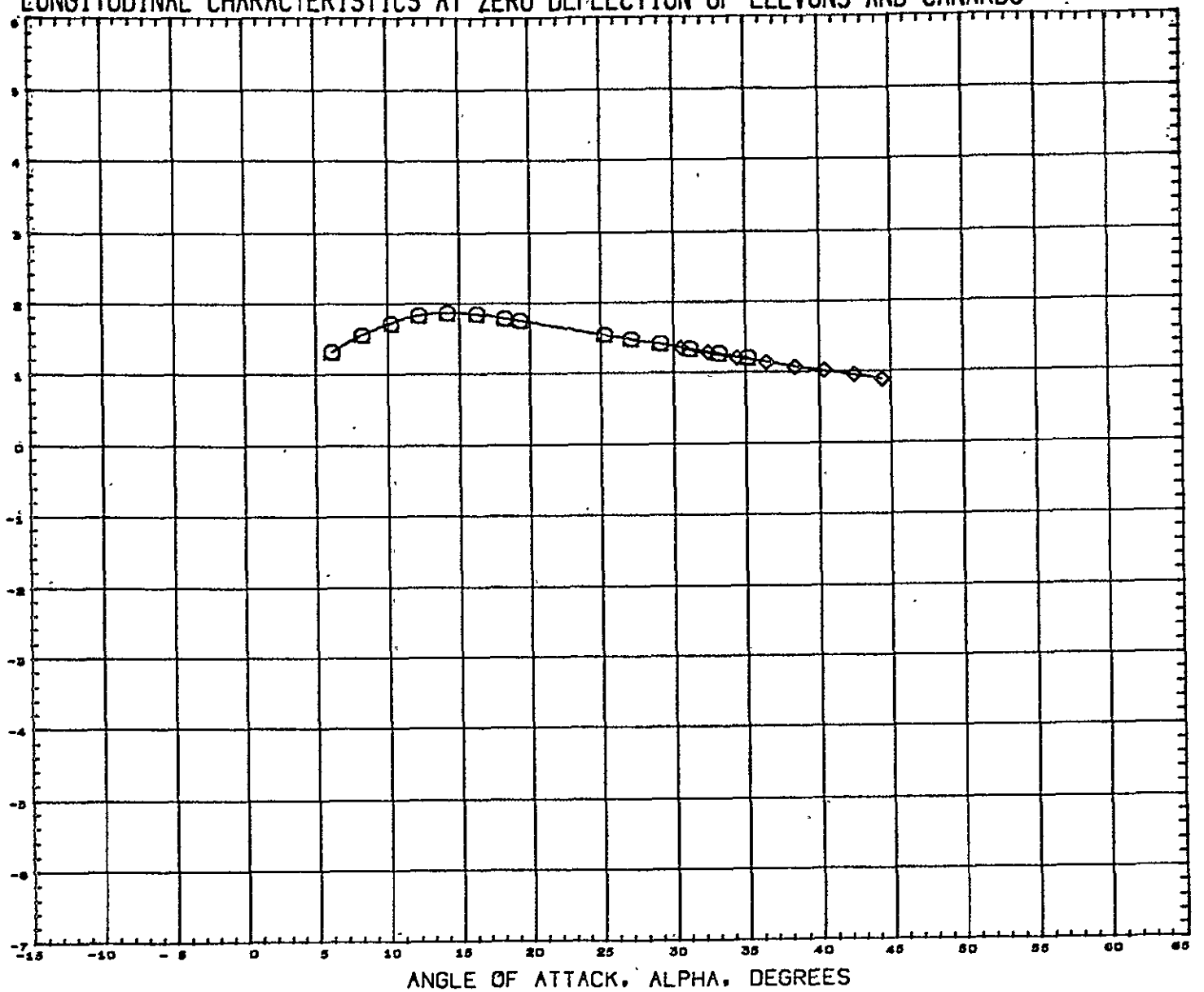


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.000

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



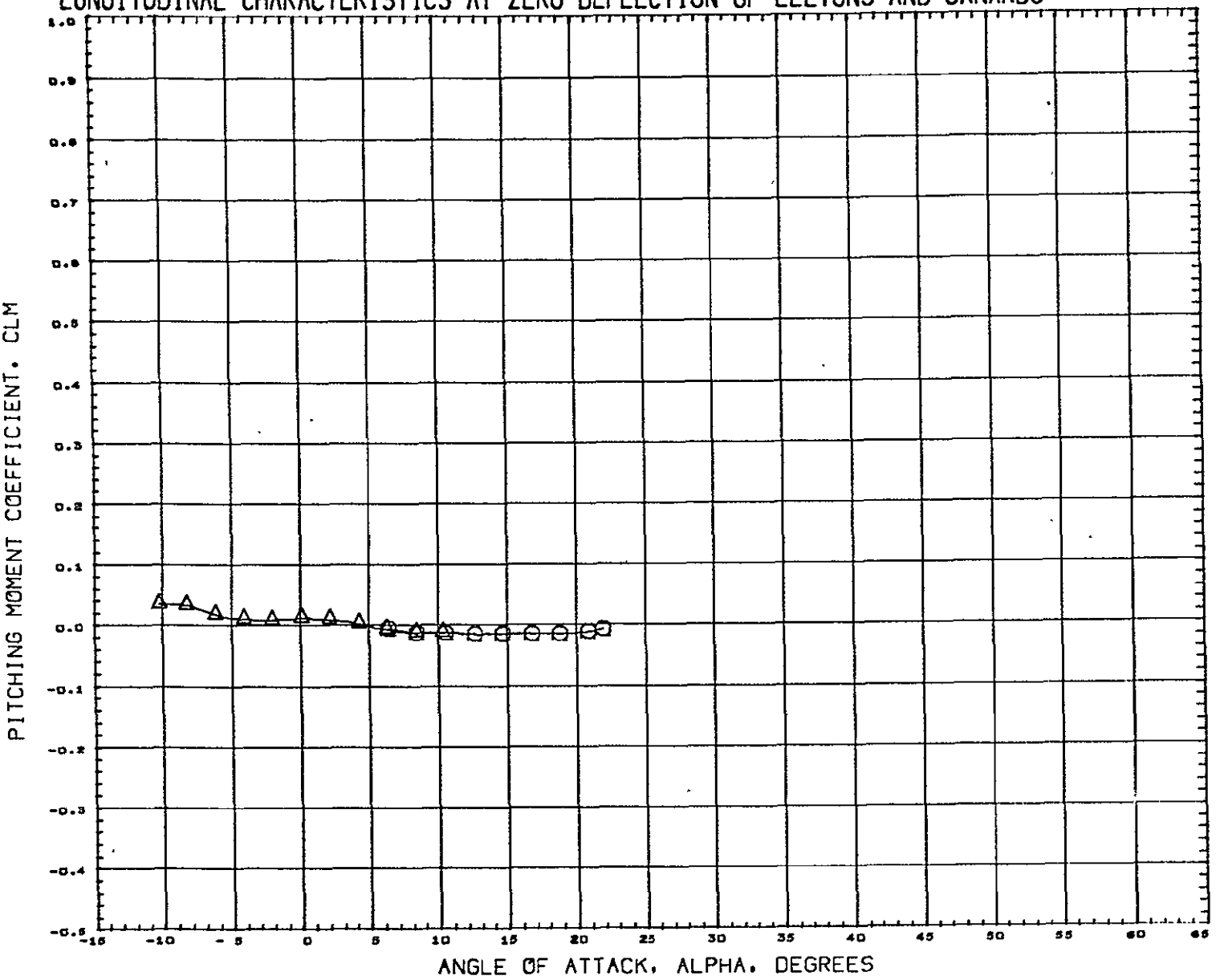
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

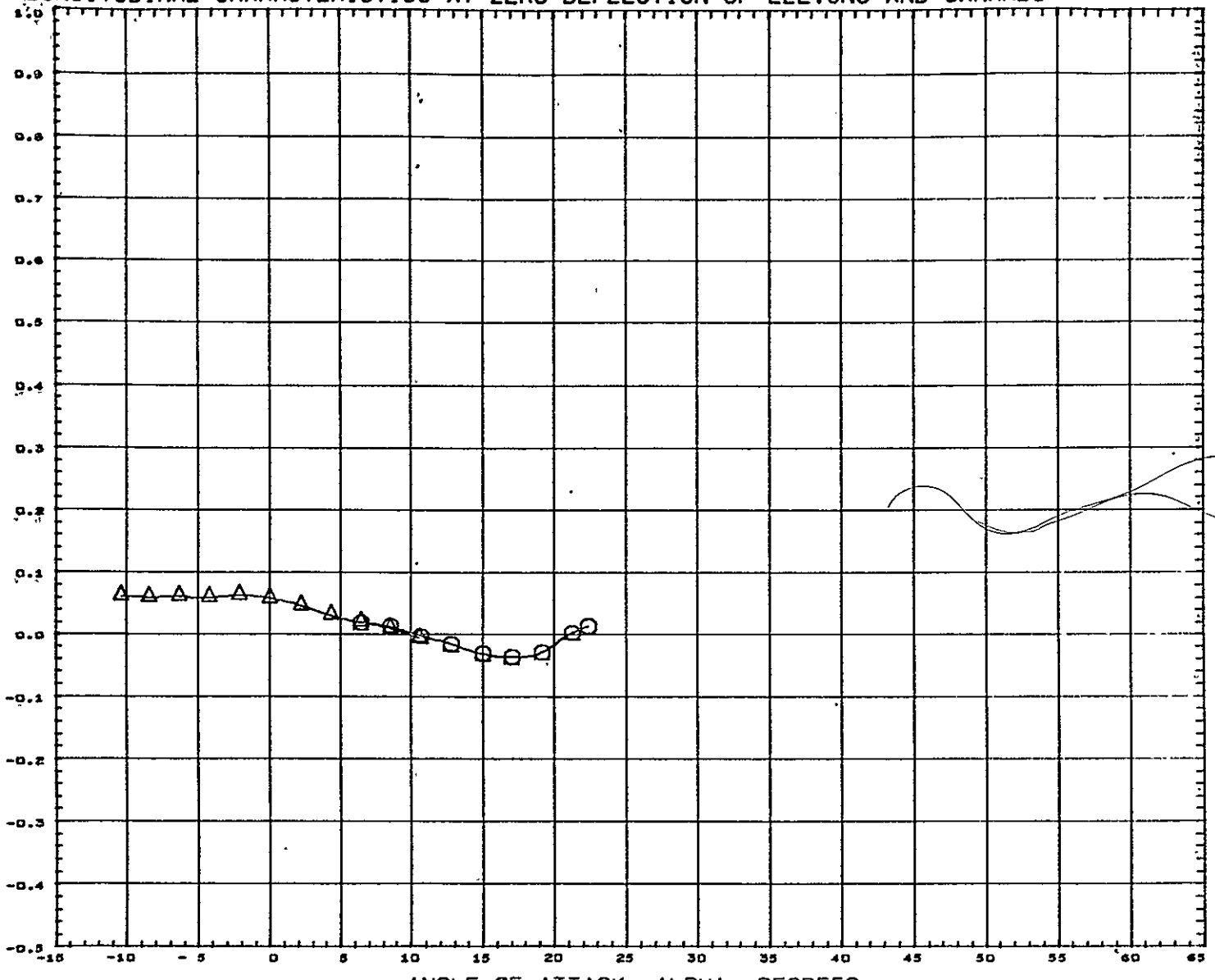


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C21)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

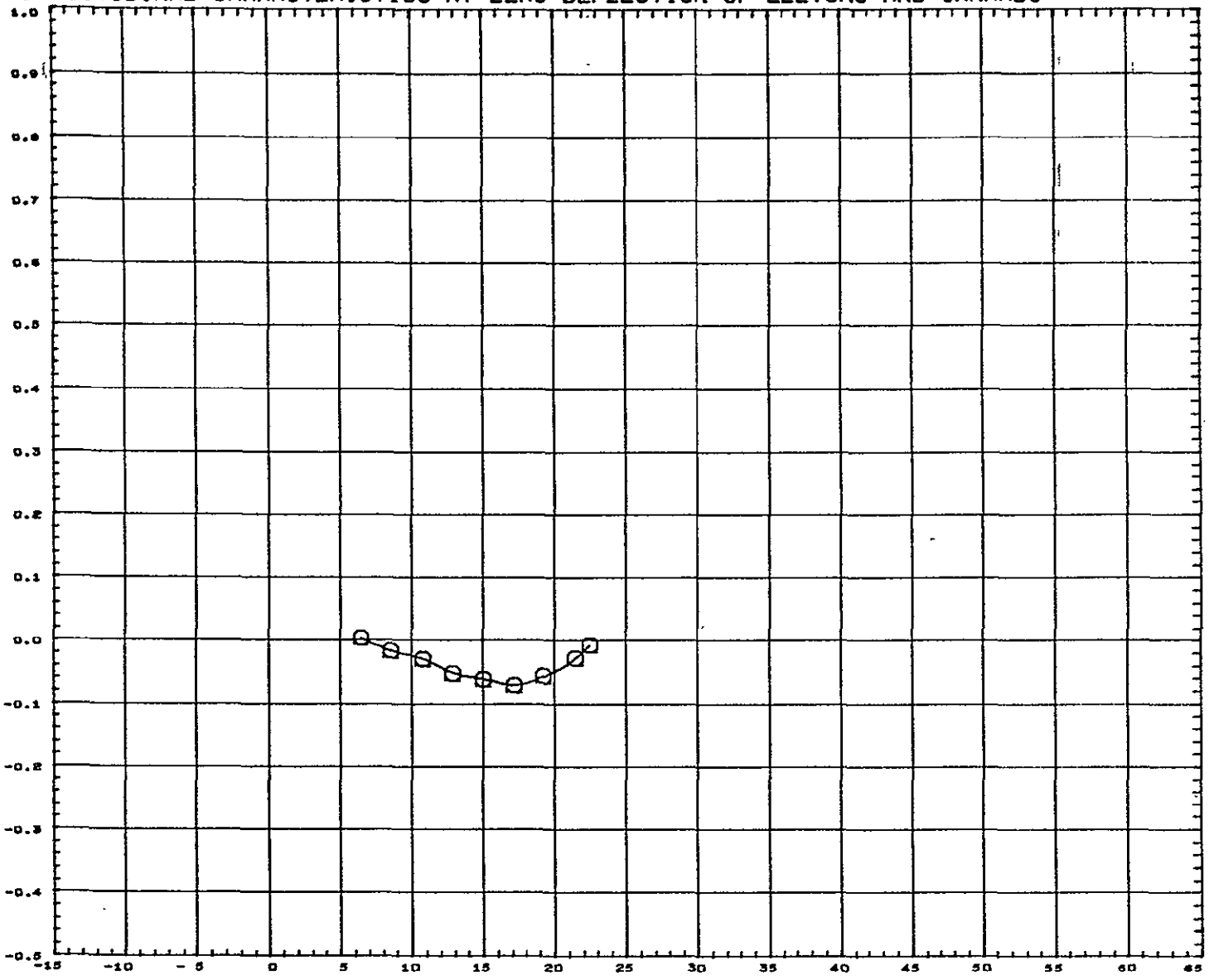


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C26D01)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E26B20)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E26C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.900

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

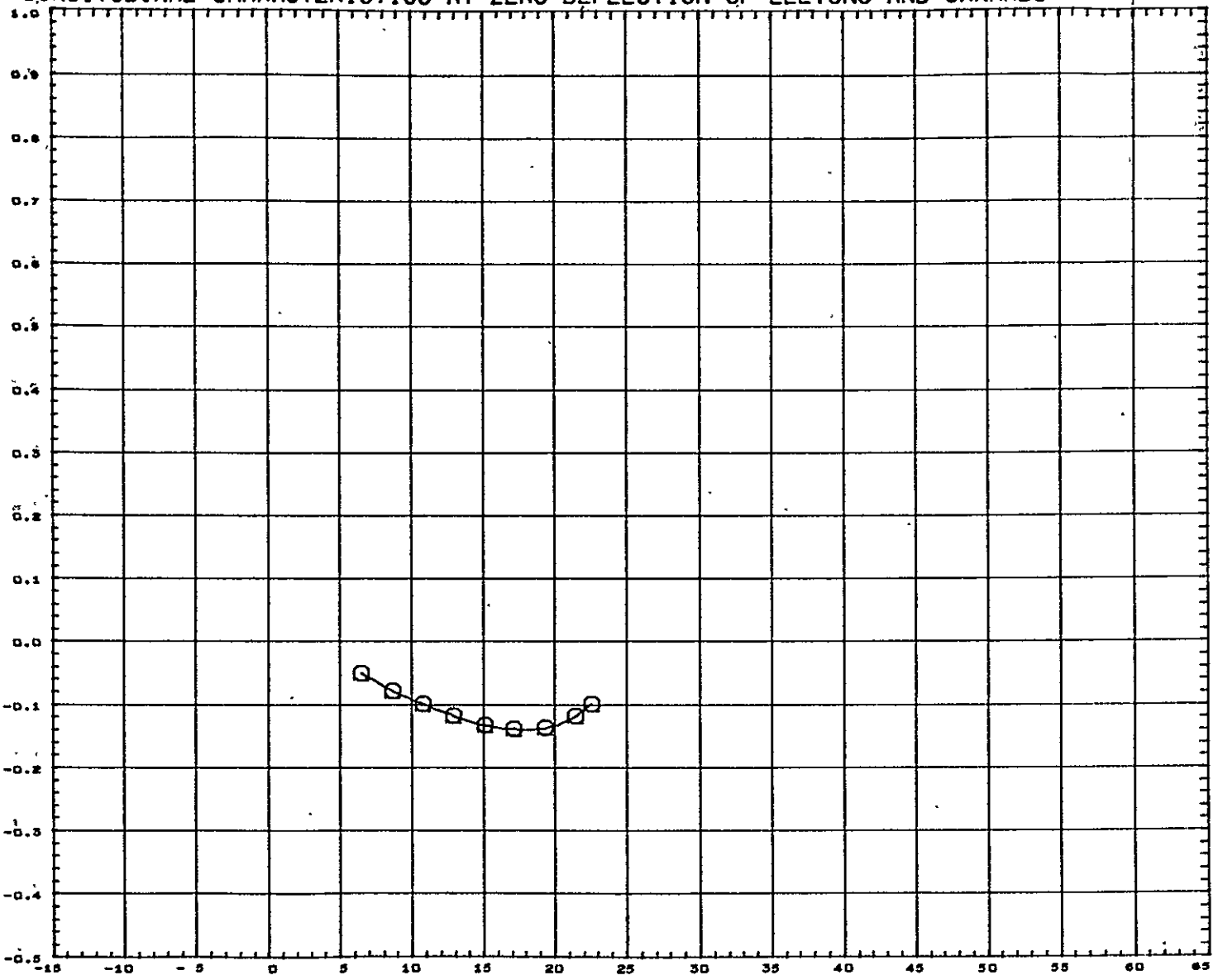


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	HSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.954

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

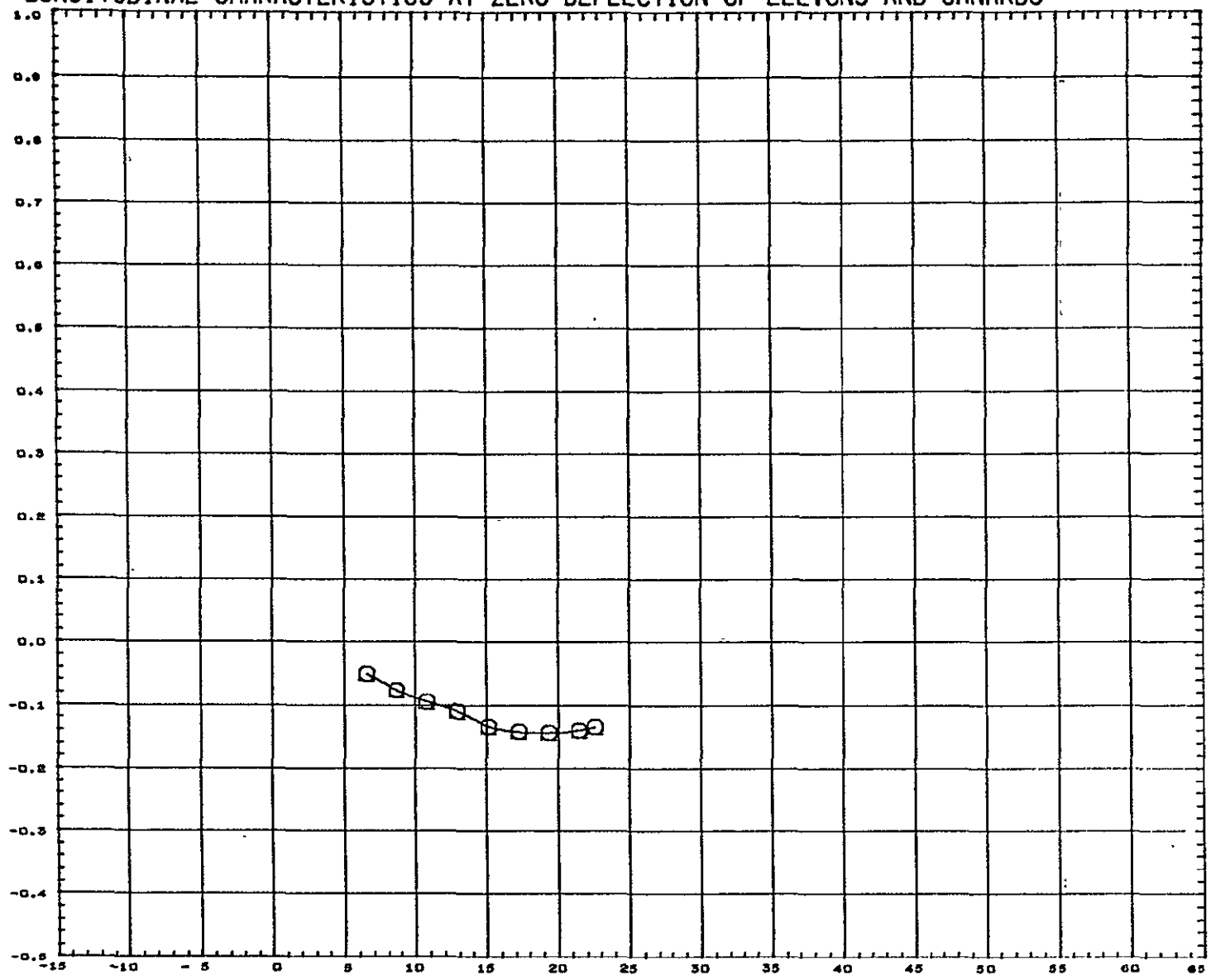


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28620)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



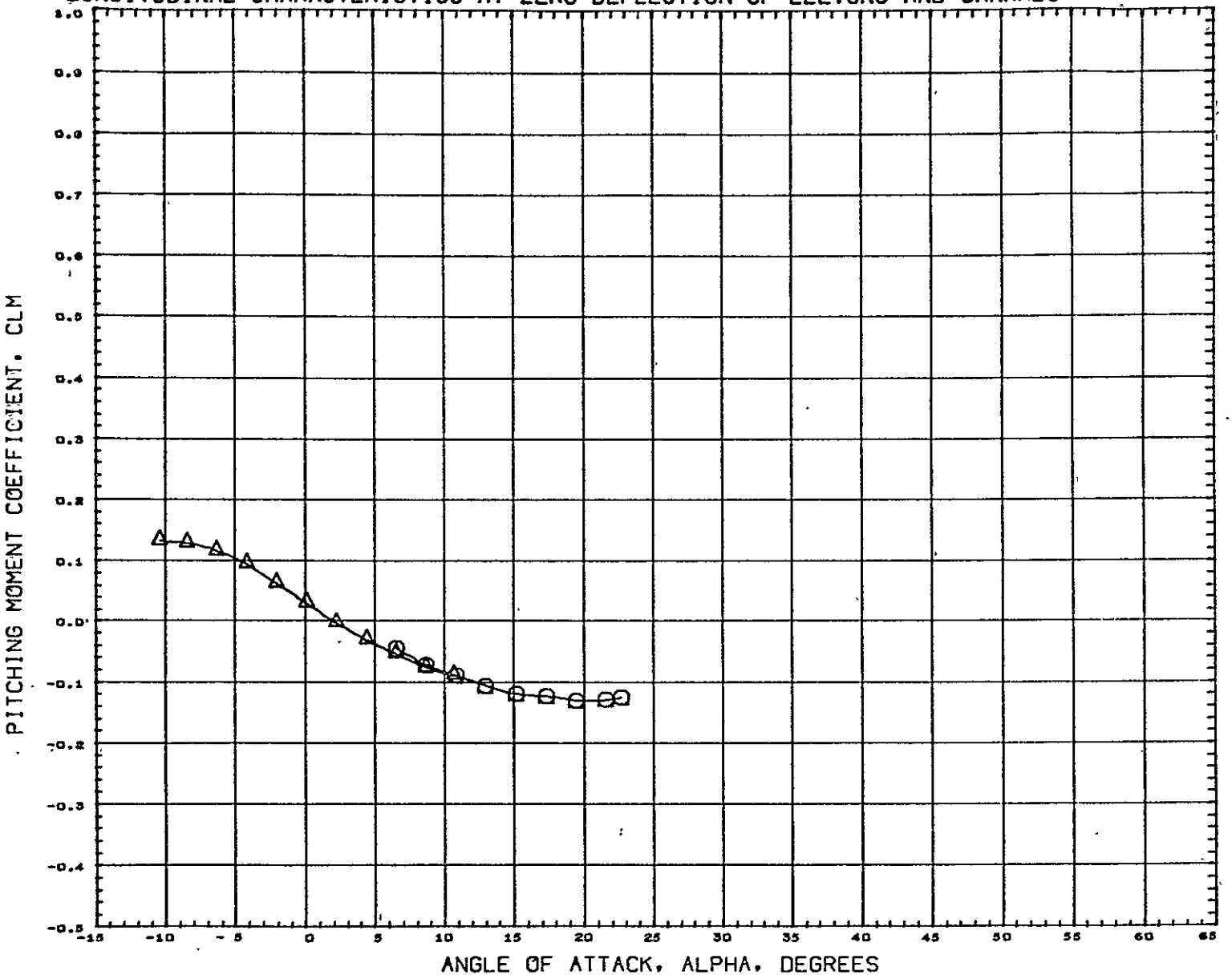
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

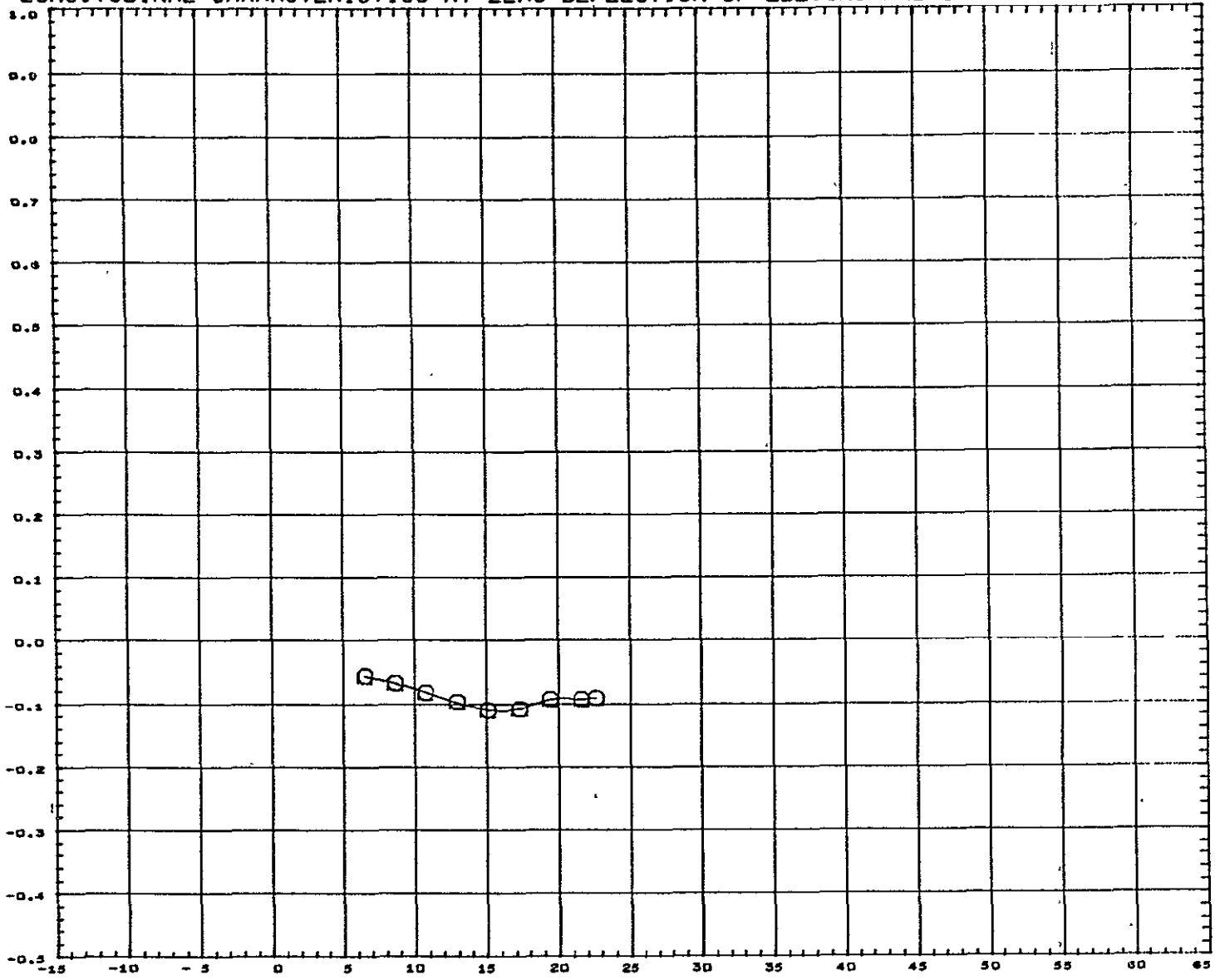


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C26001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E26820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E26C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.105

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

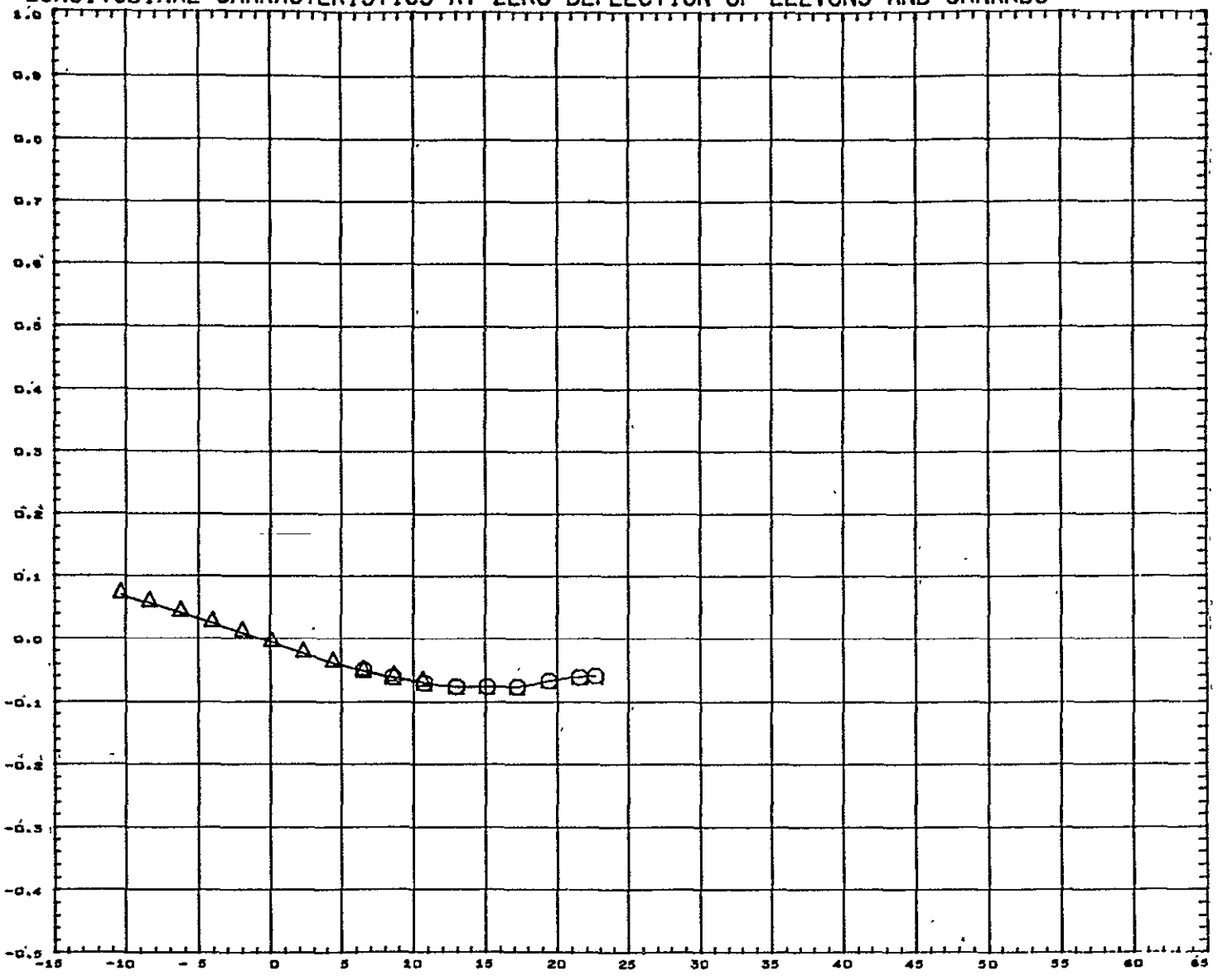


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

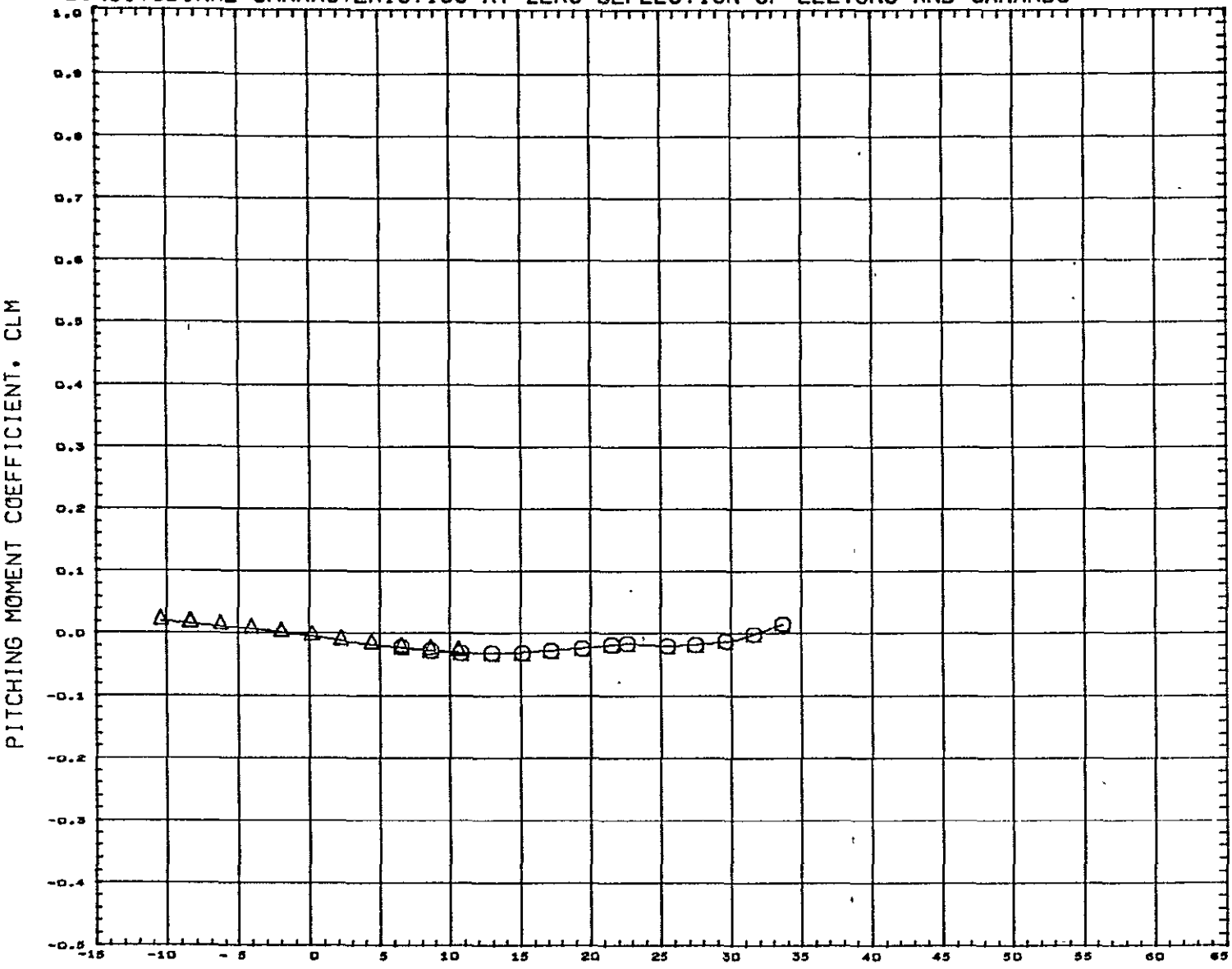


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	HSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	HSFC 461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.462

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

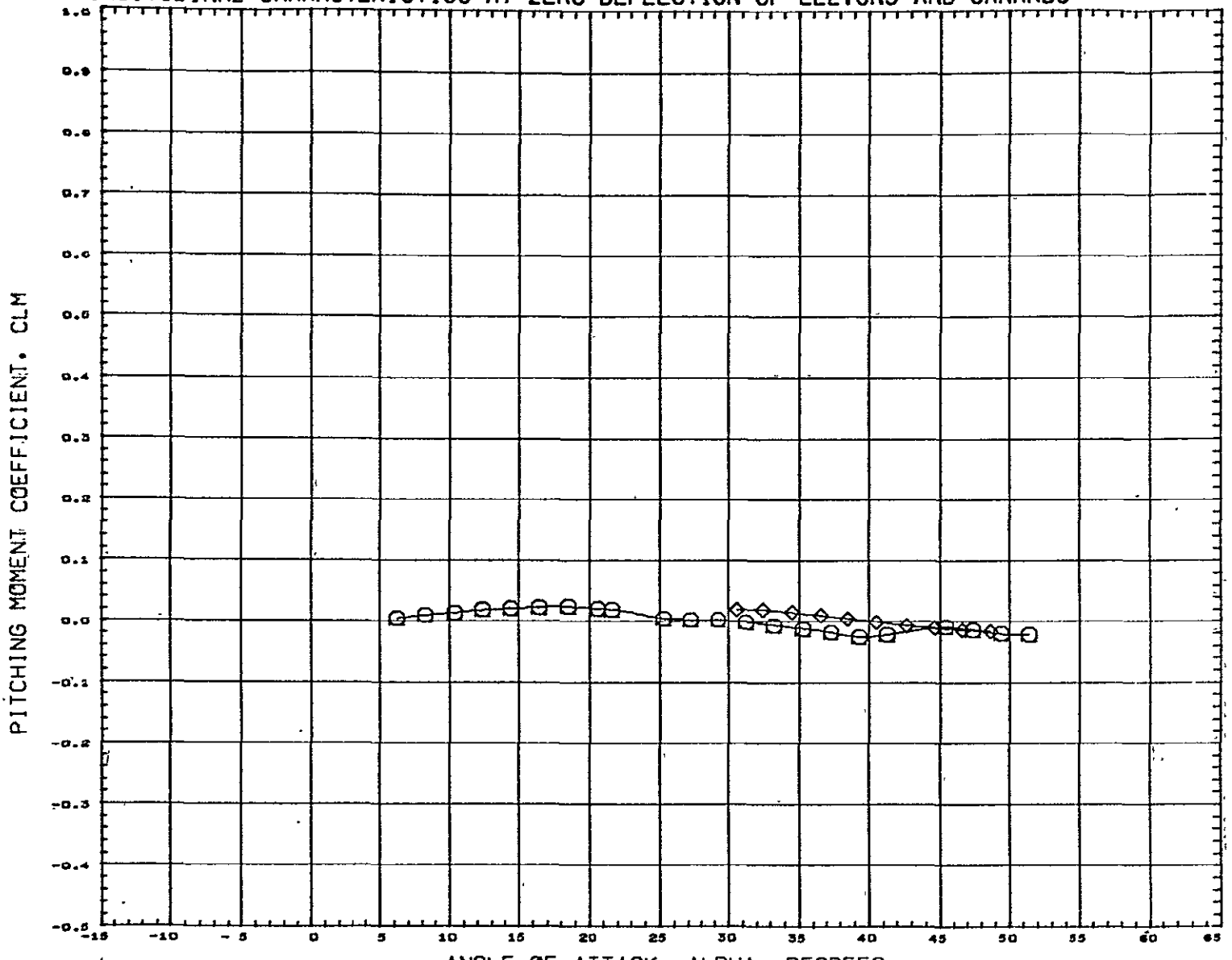


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	MSFC 461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

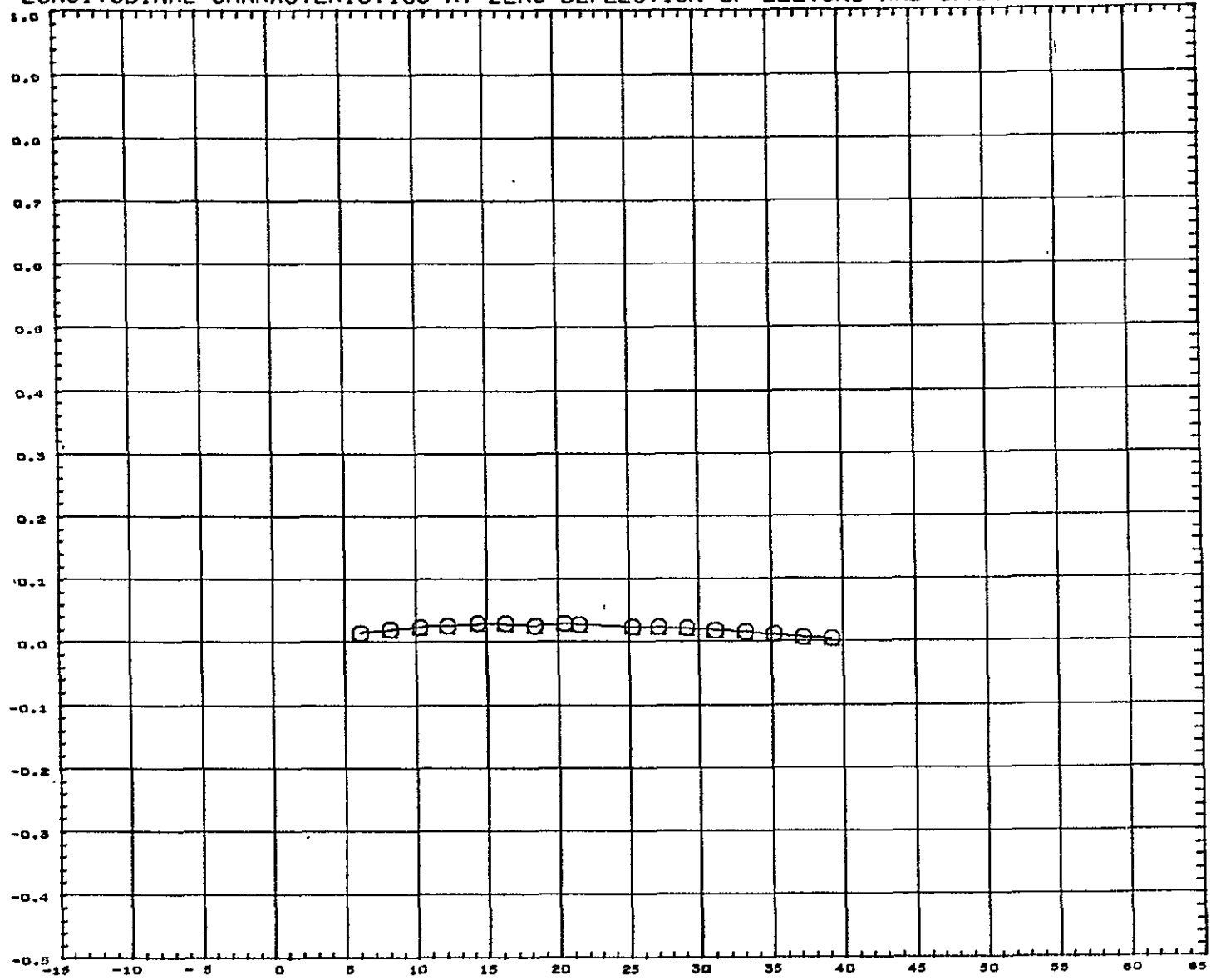


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	MSFC401 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

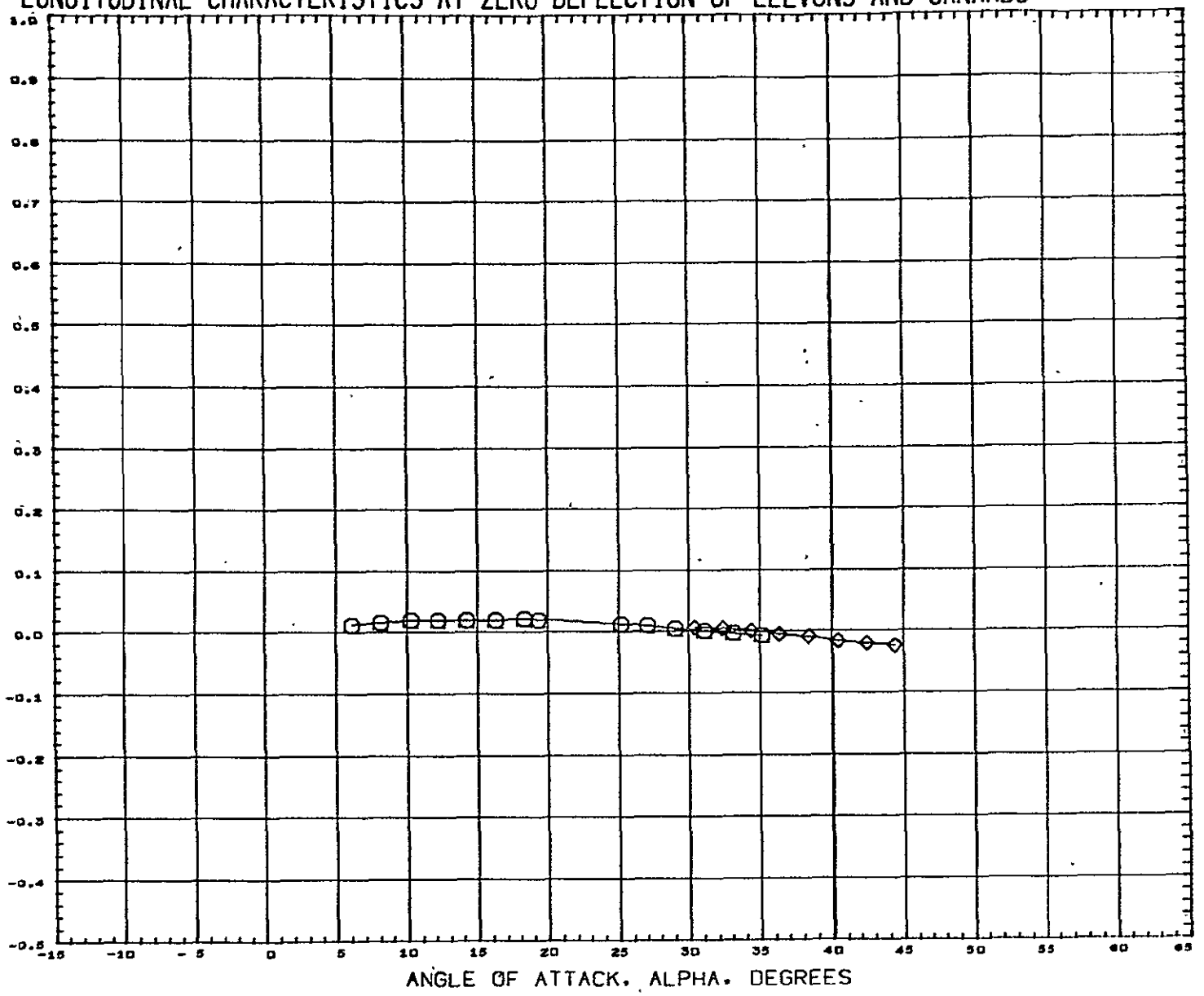


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

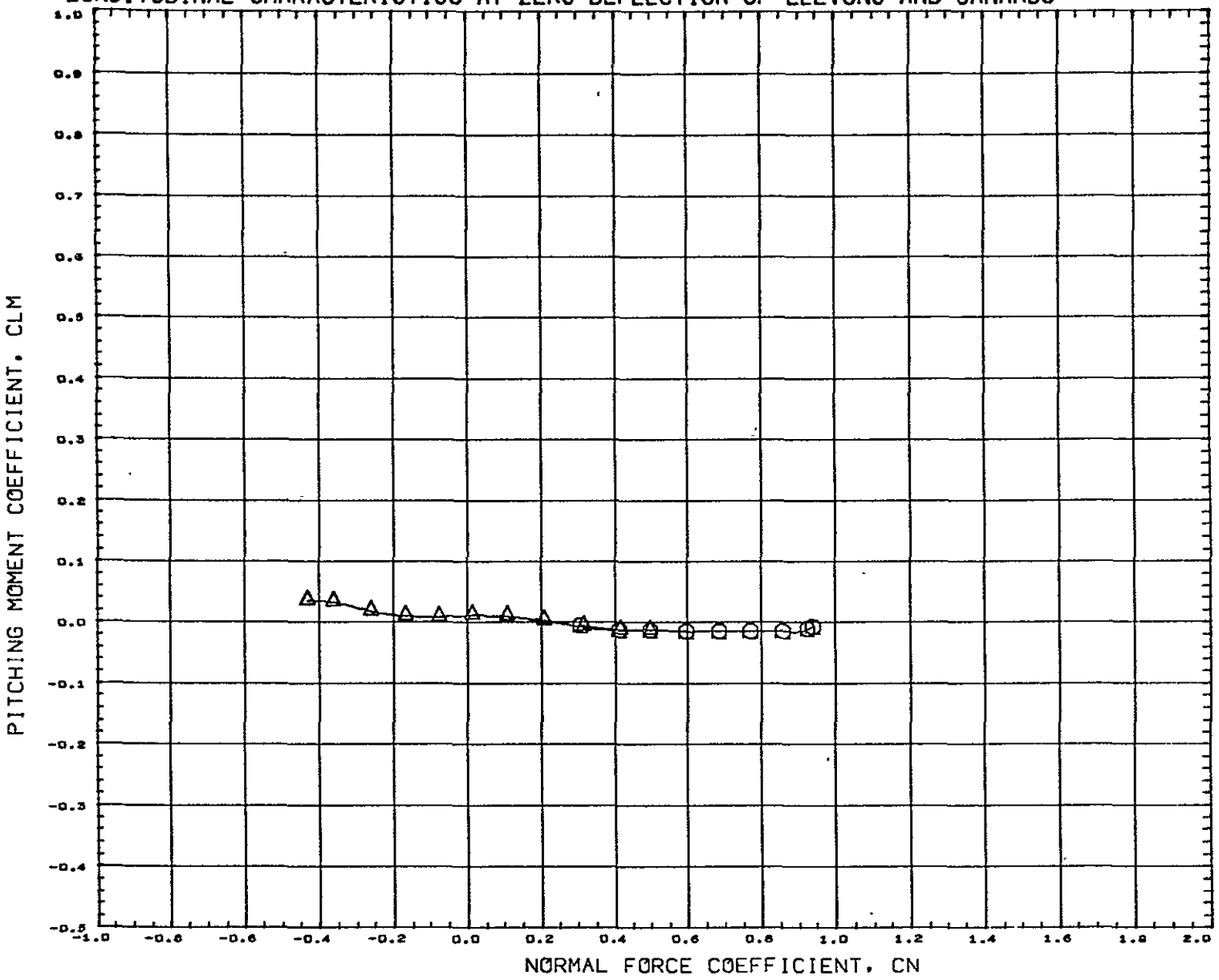


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	MSFC461 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

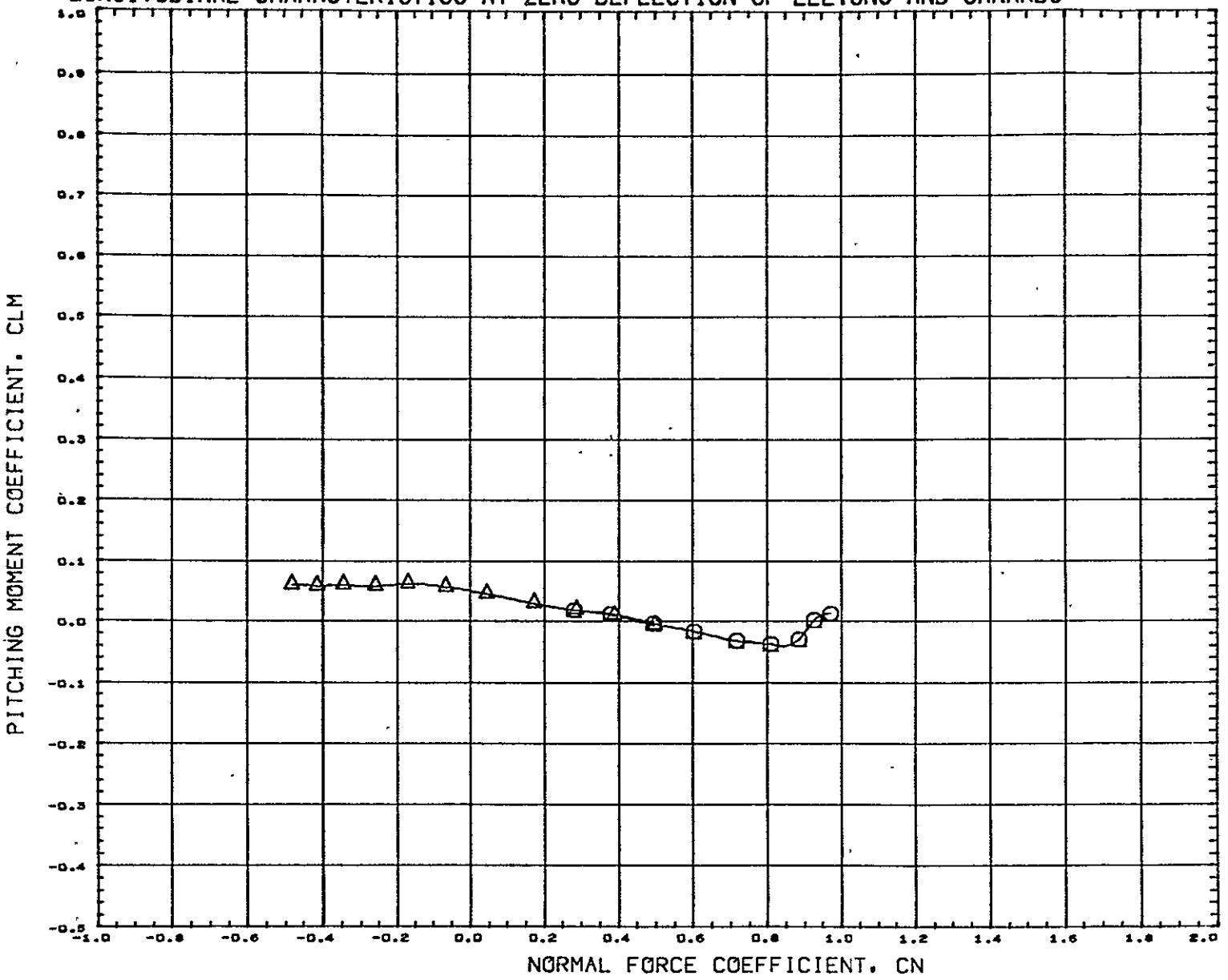


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

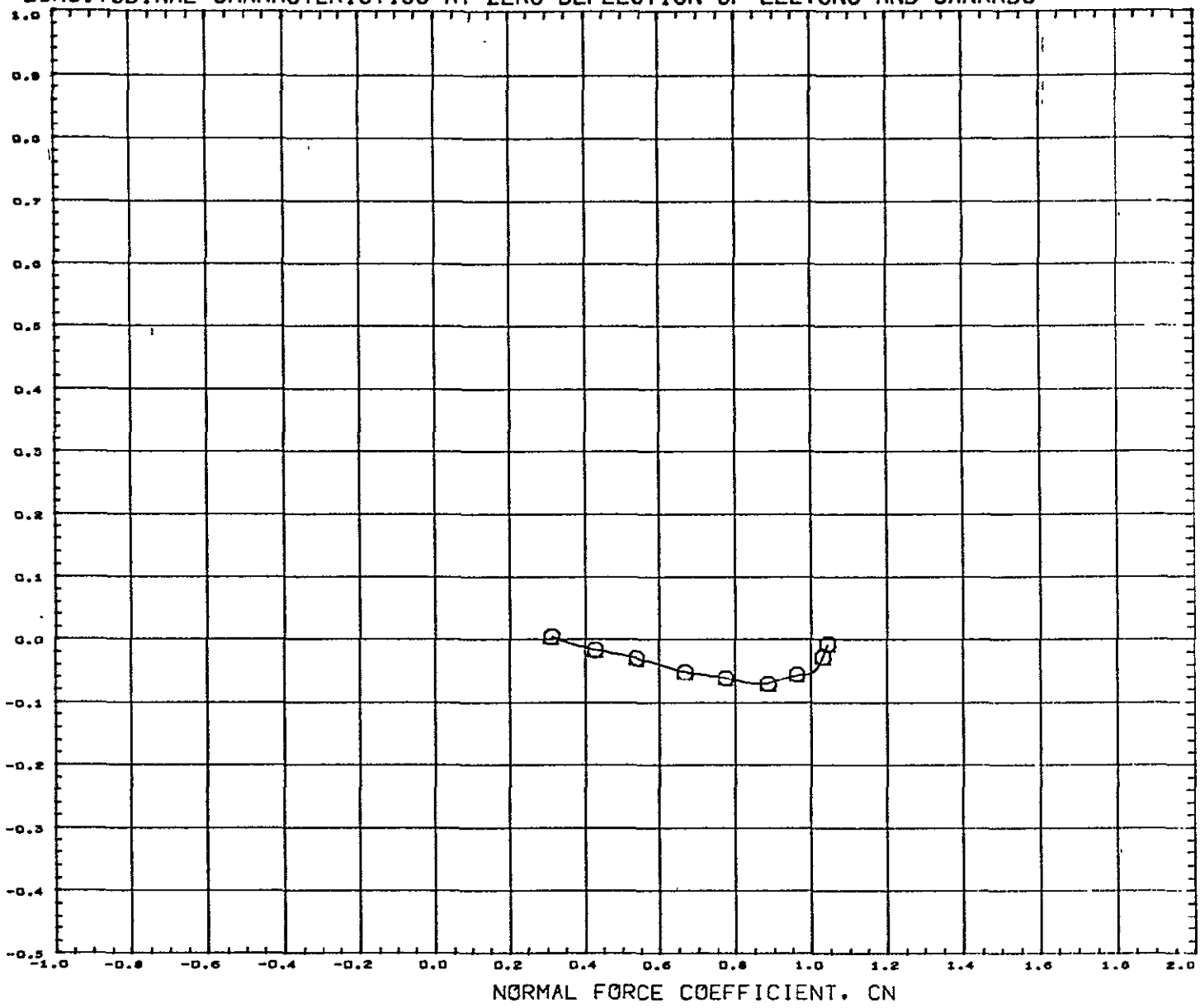


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C21)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.900

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

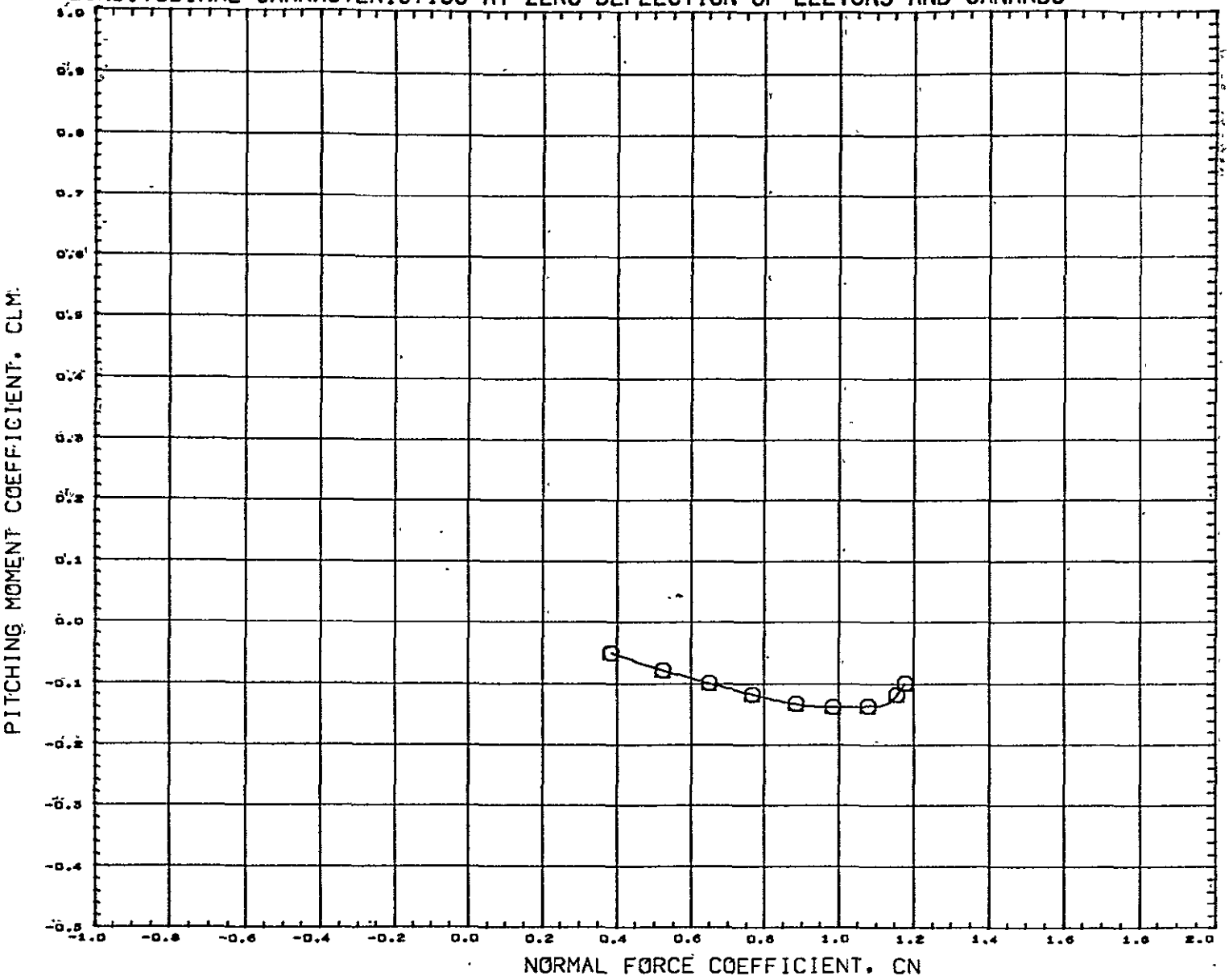


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C26D01)	○	HSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E26B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E26C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.954

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

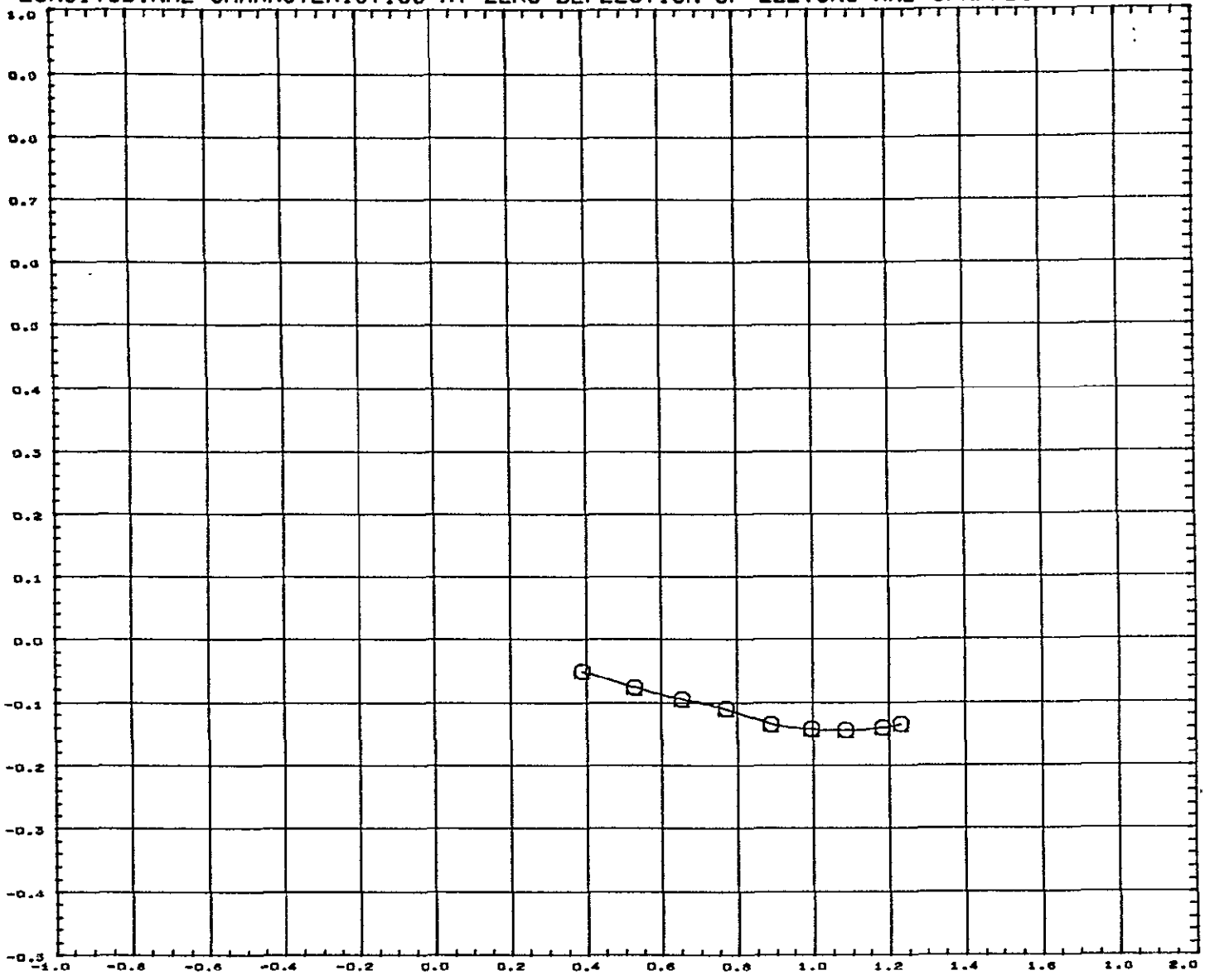


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C2B001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E2B52D)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E2BC51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

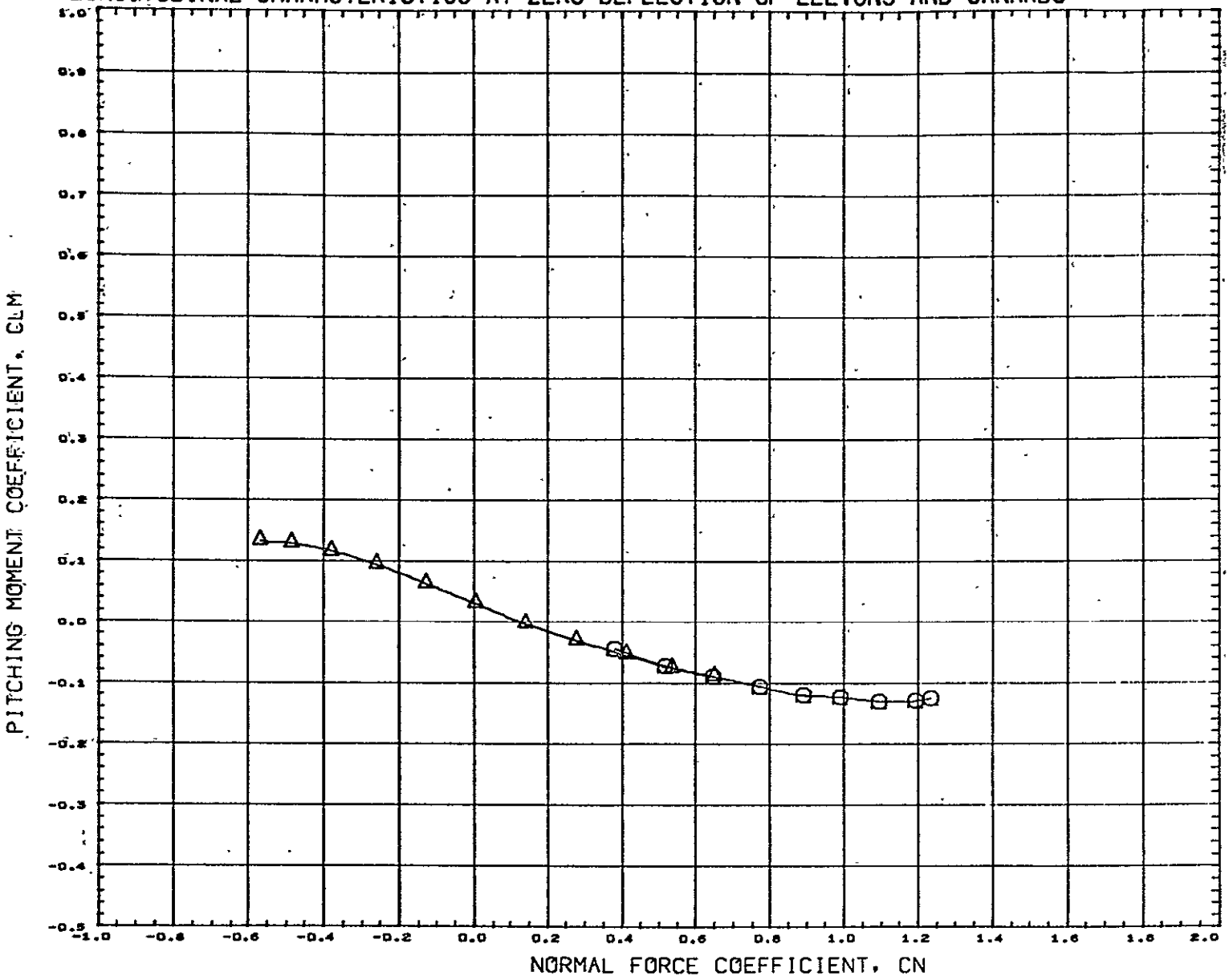


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C26001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E26820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E26C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

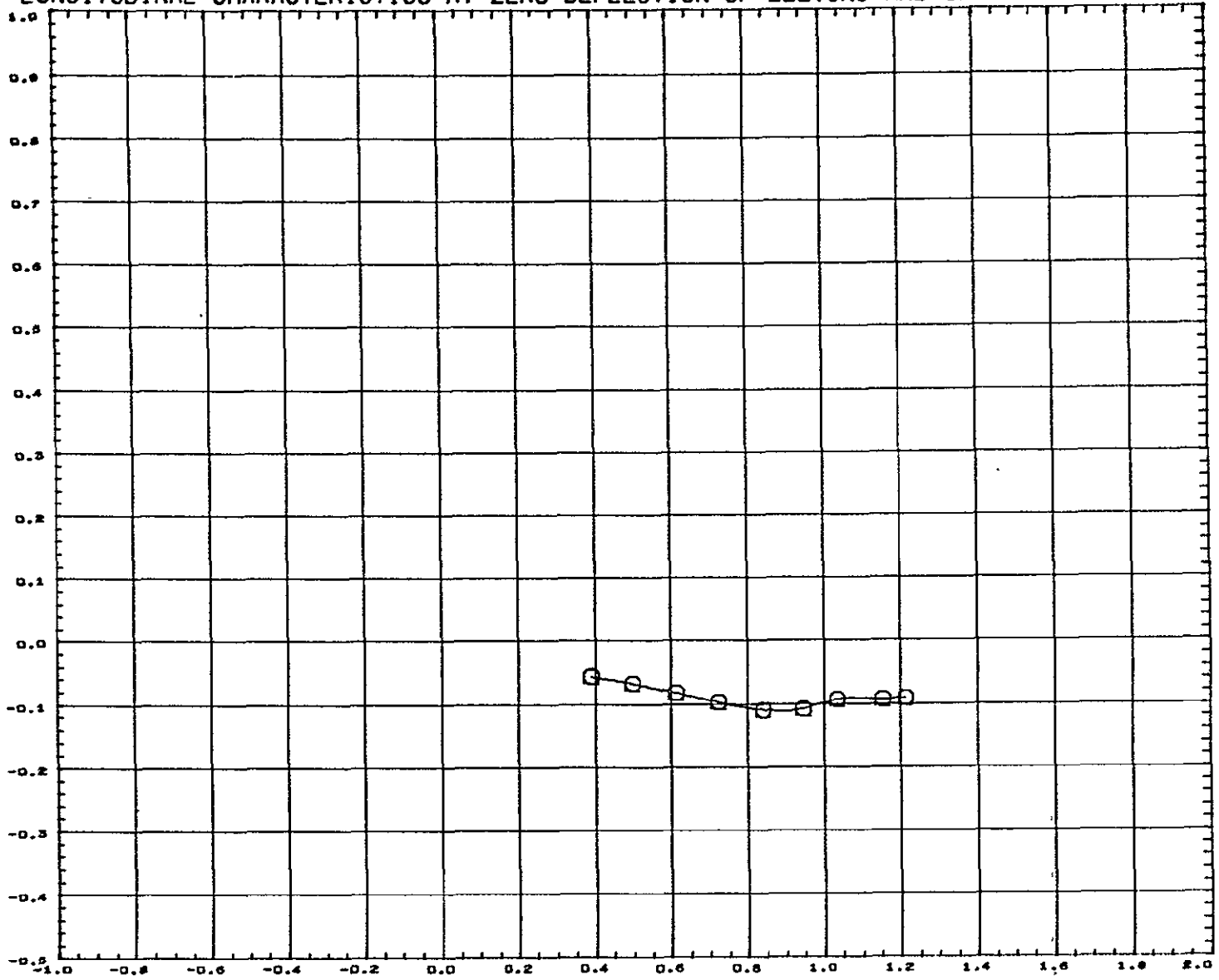


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(CZ8001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(EZ8820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(EZ8C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.105

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

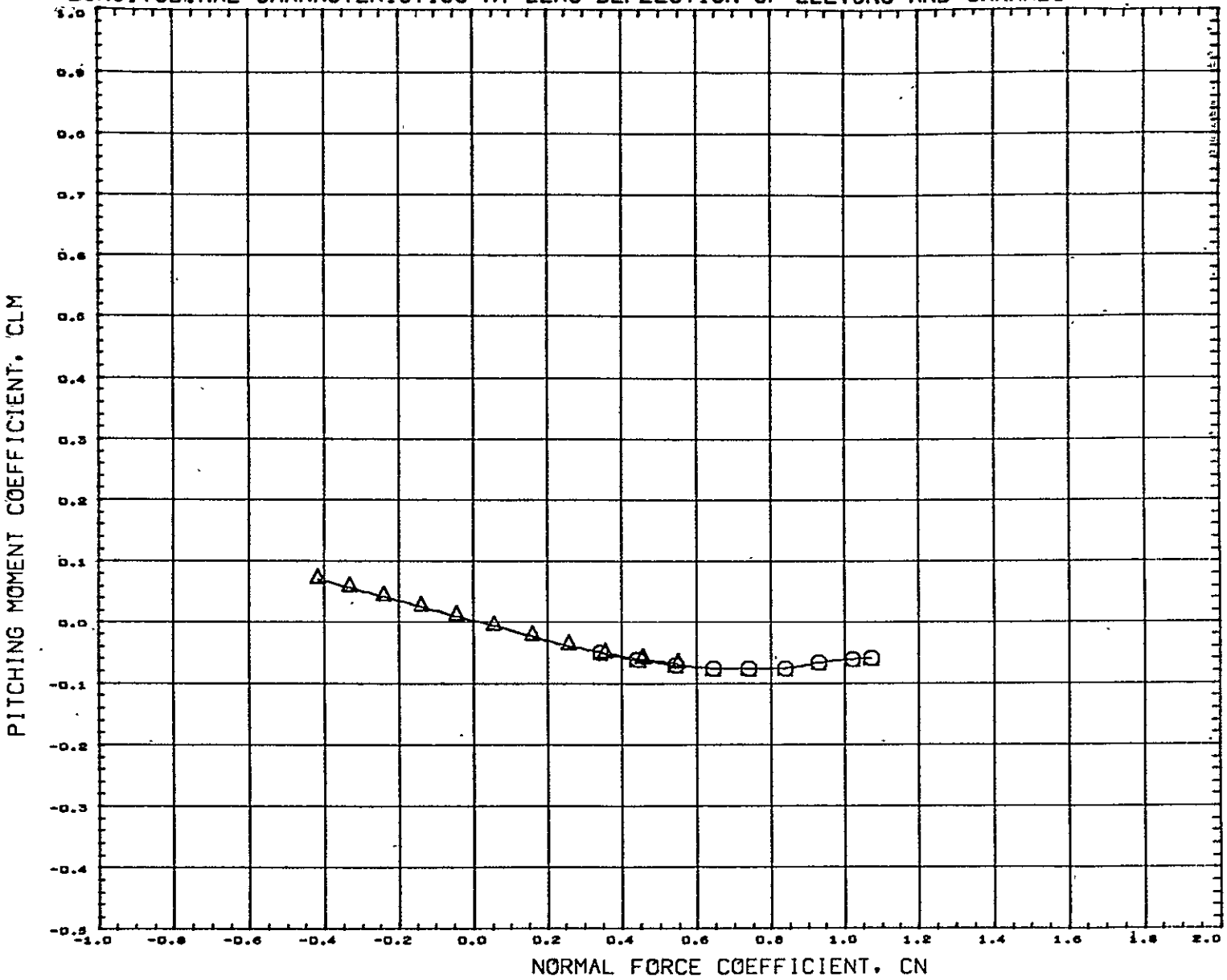


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C29001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS.

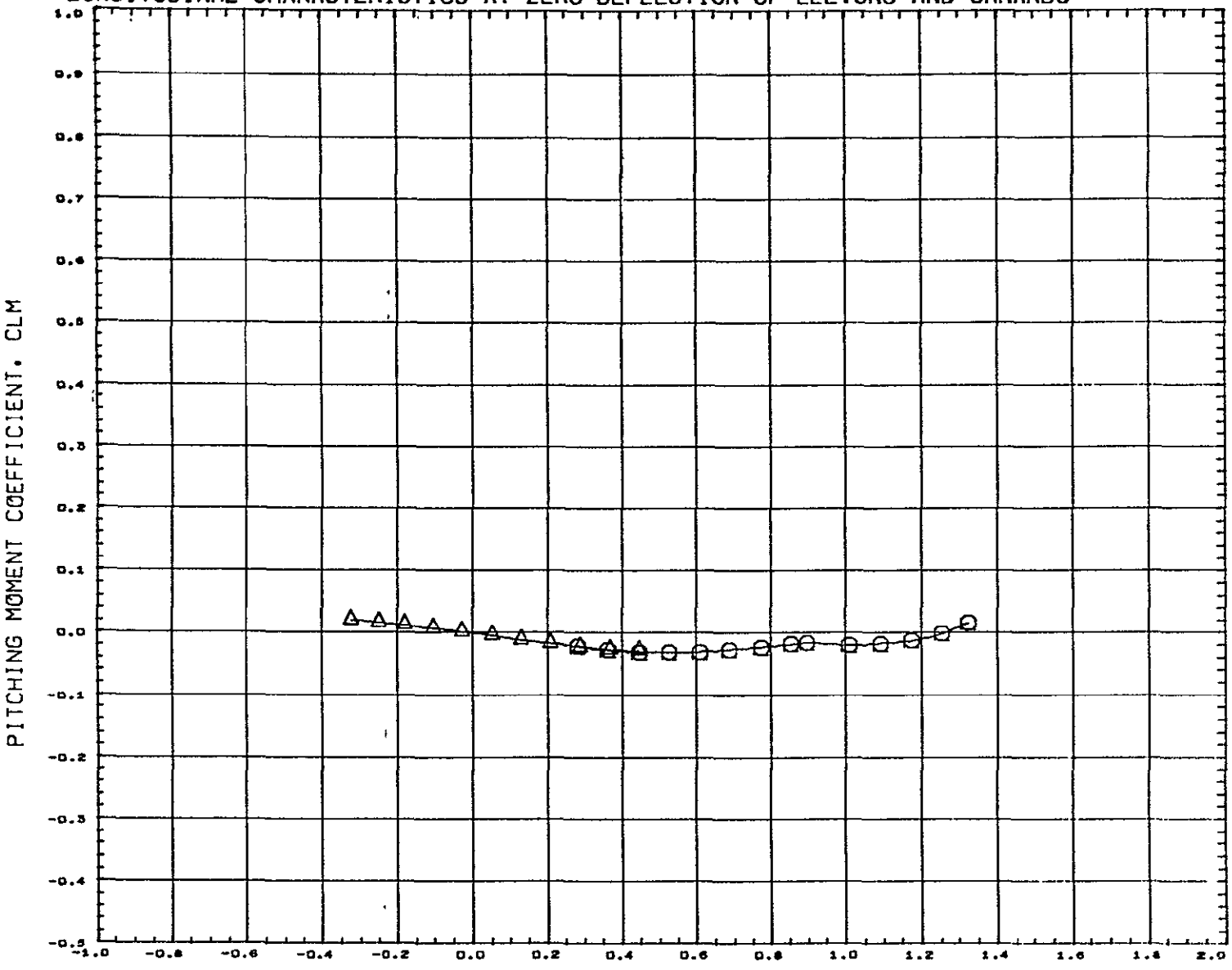


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.462

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

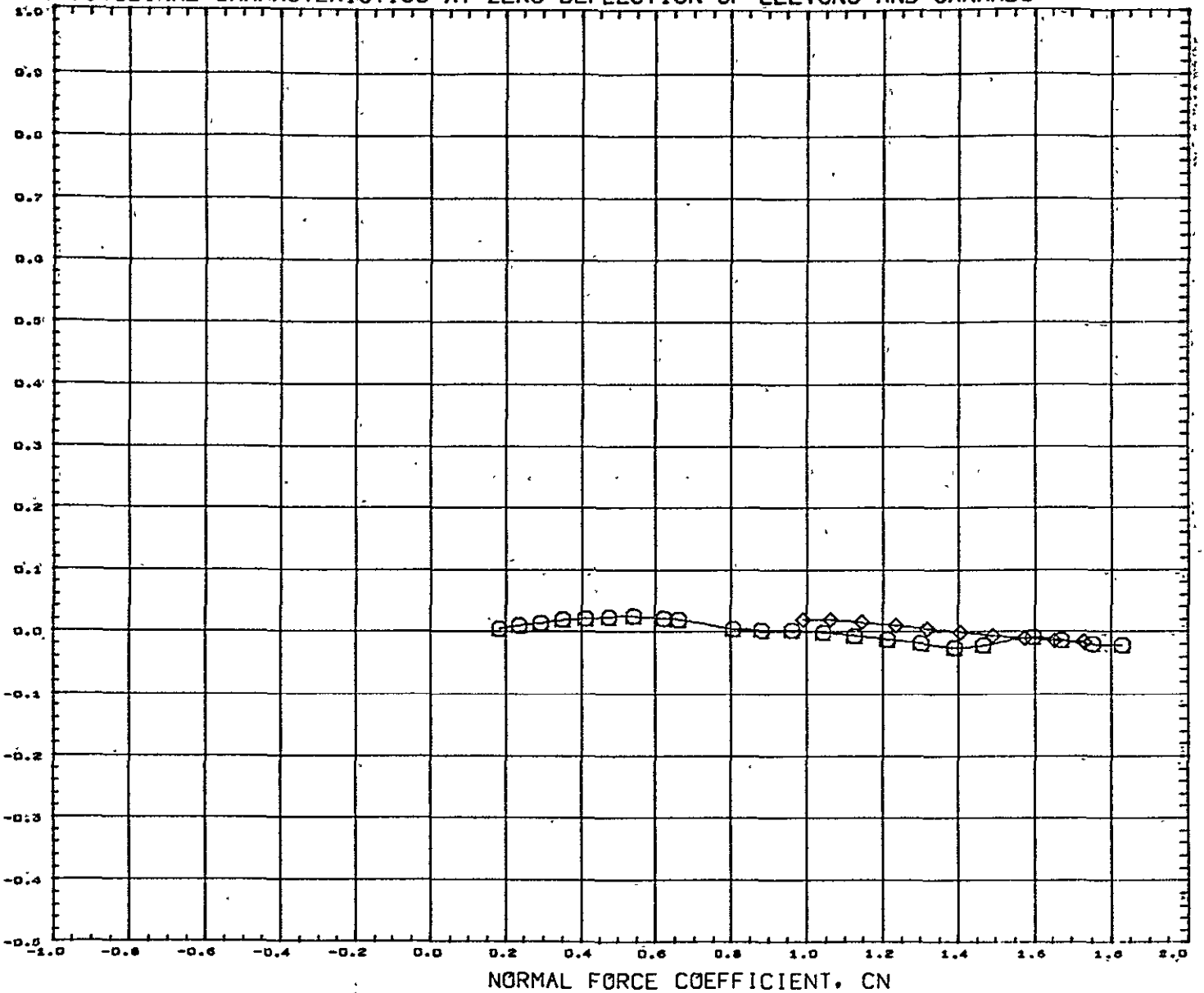


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



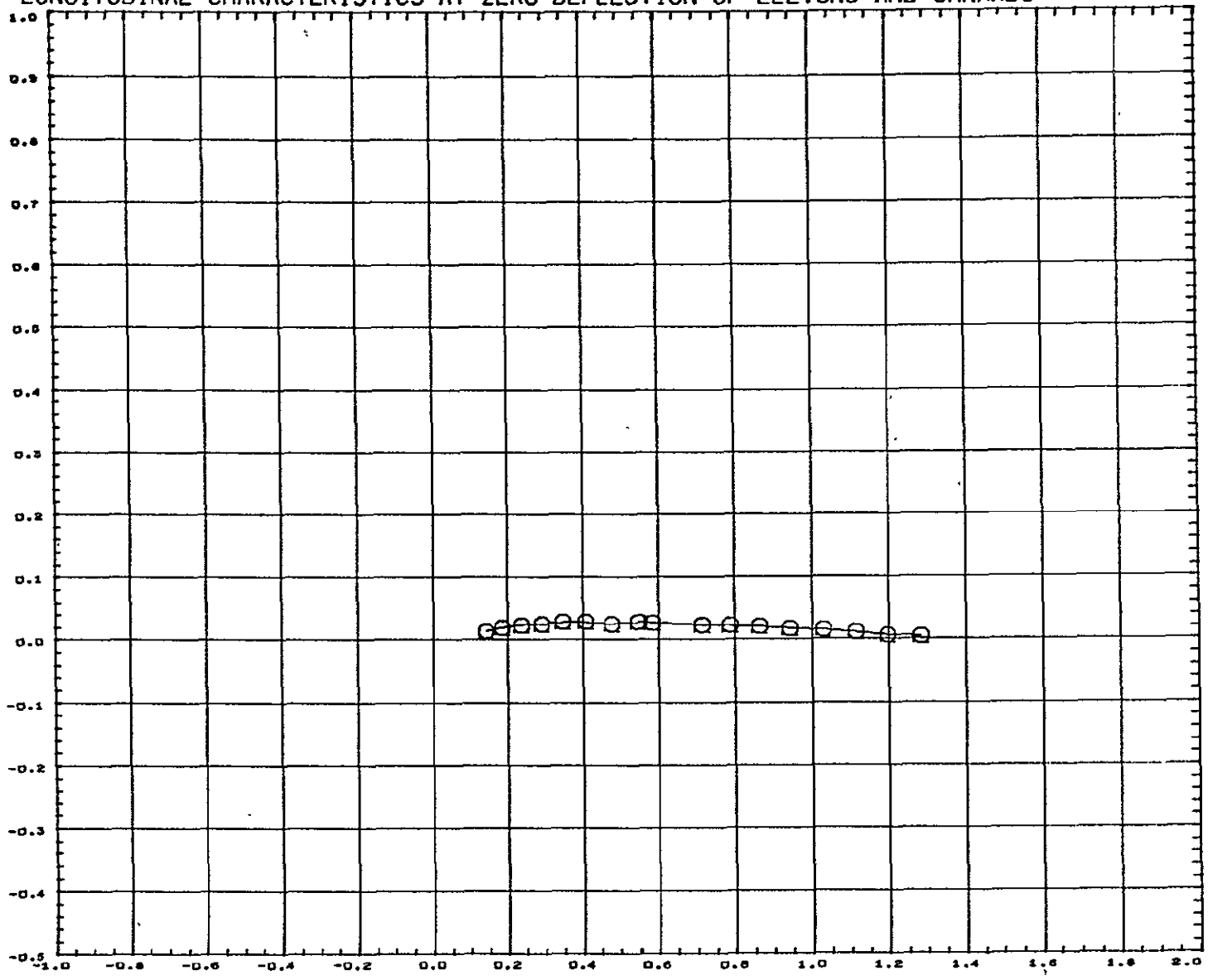
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E28C51)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

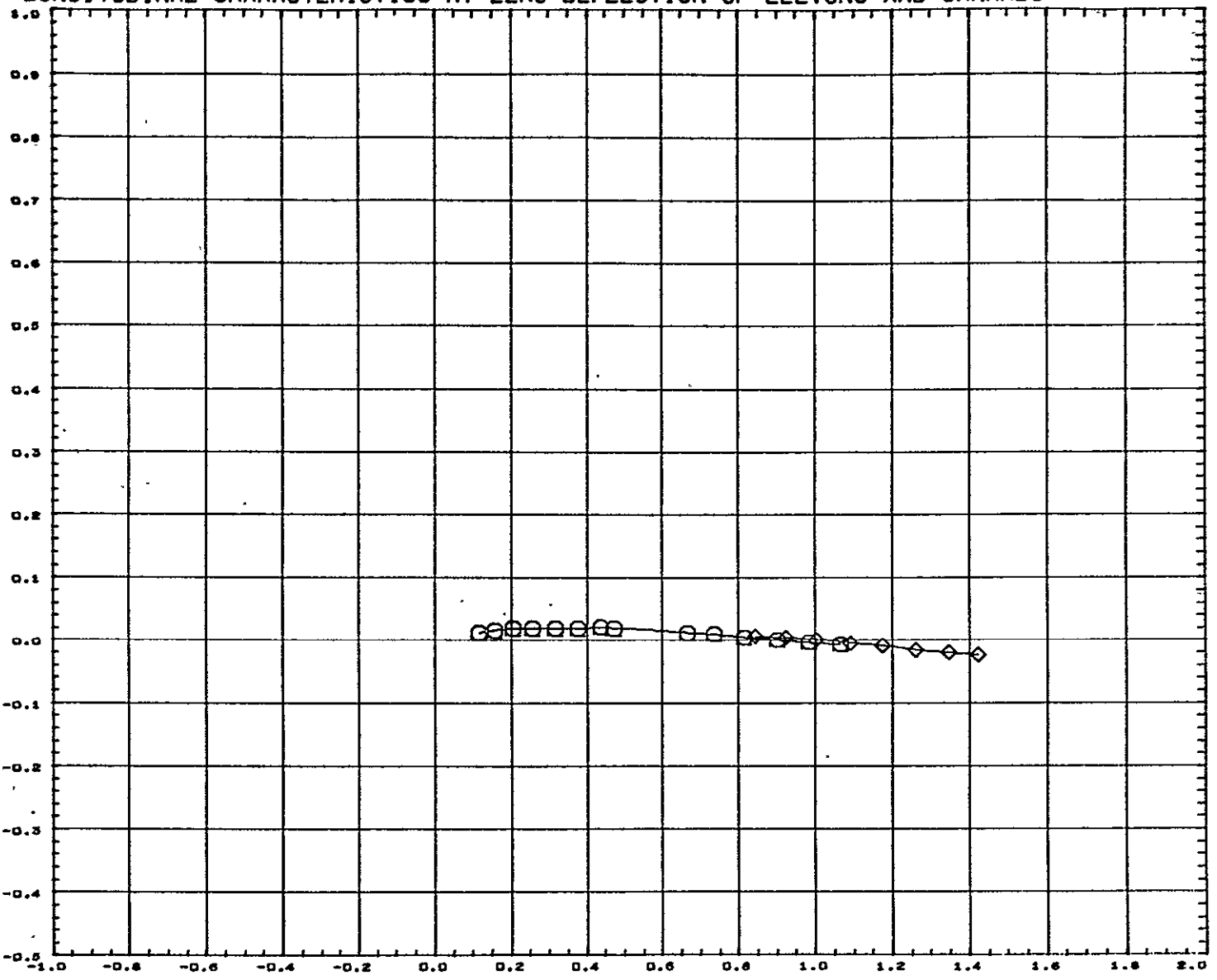


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	10.0035	

MACH 4.000

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

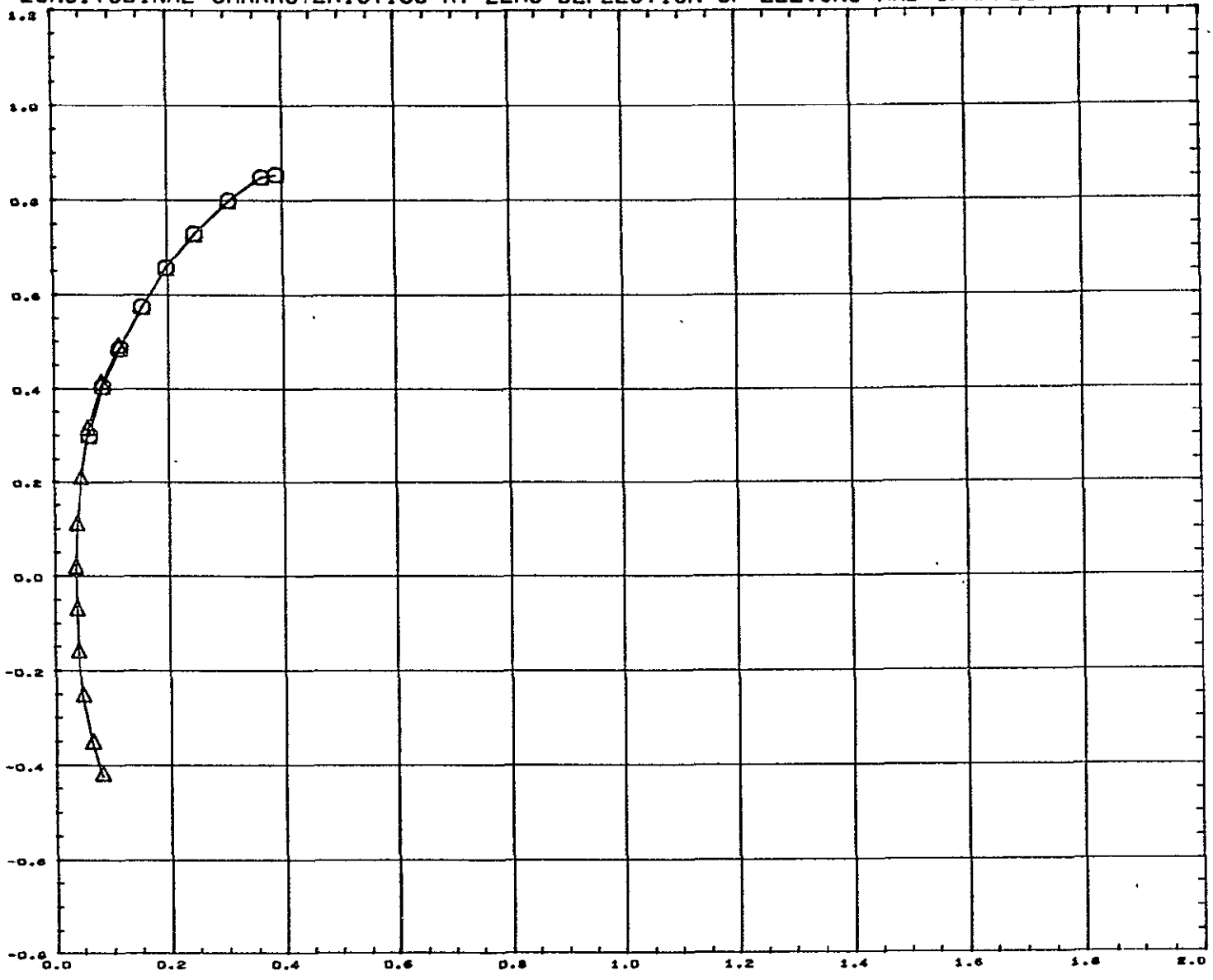


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C20D1)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E20B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E20C51)	◇	MSFC461 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

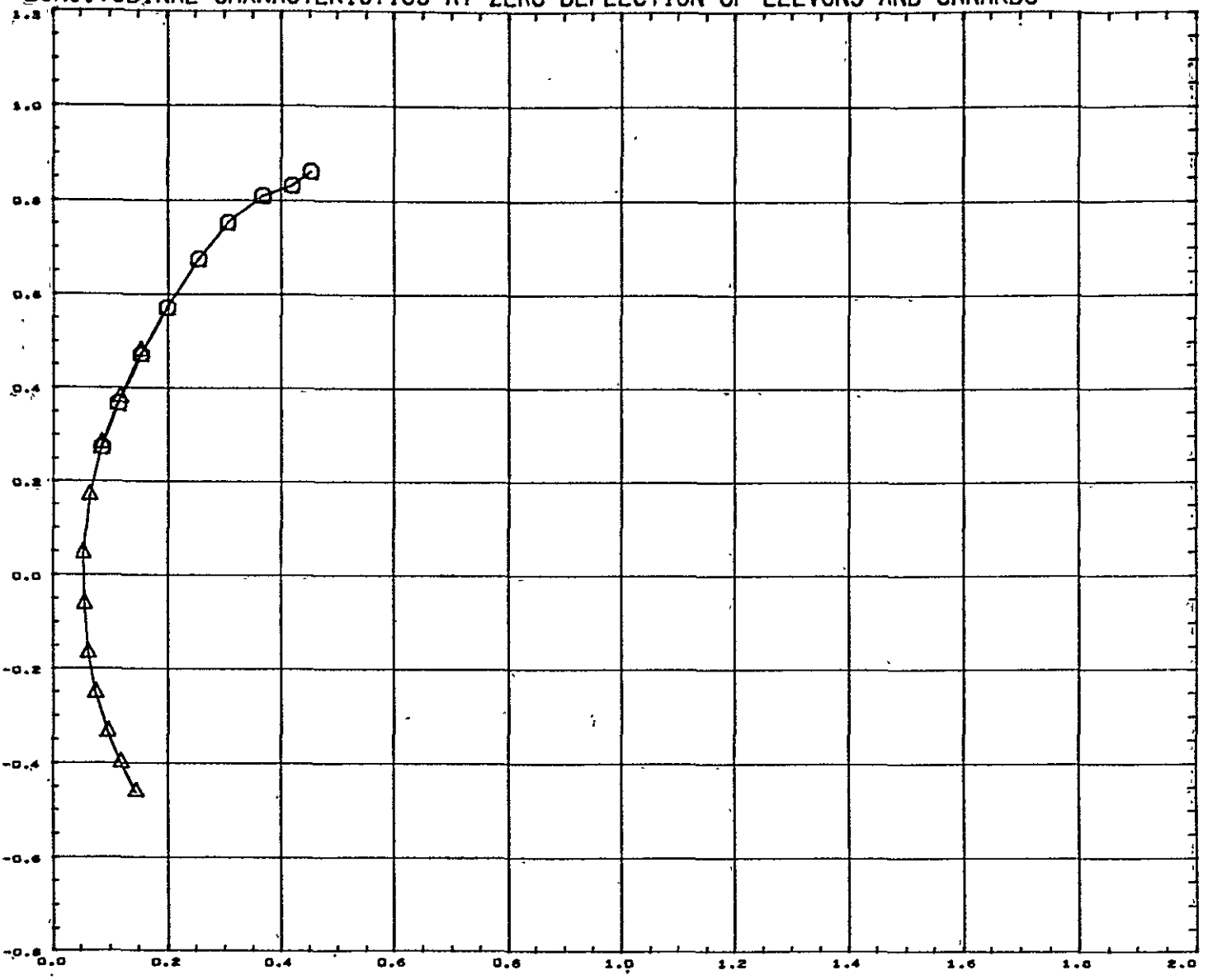


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28D1)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B2D)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



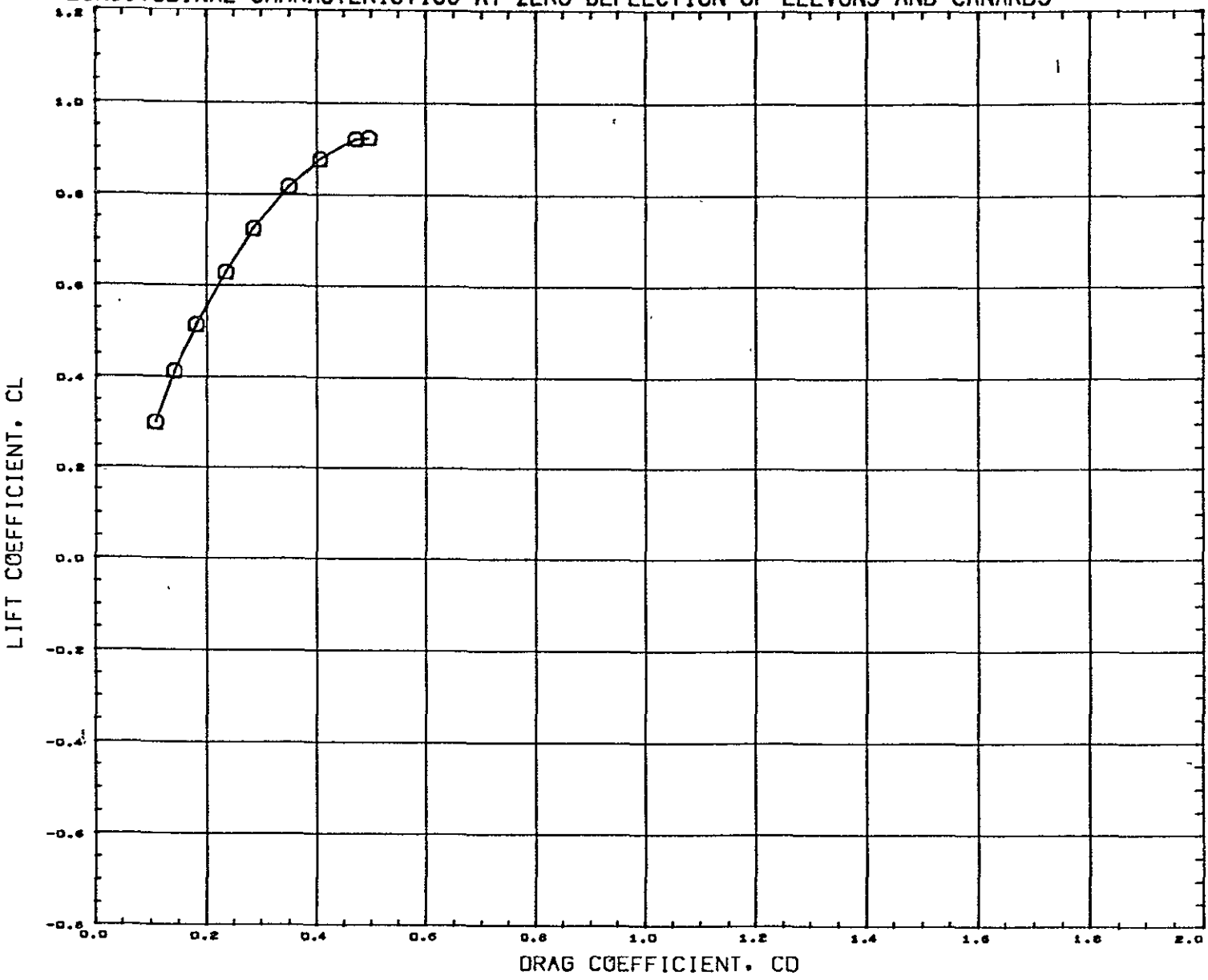
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28D01)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E28B20)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0930	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.900

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



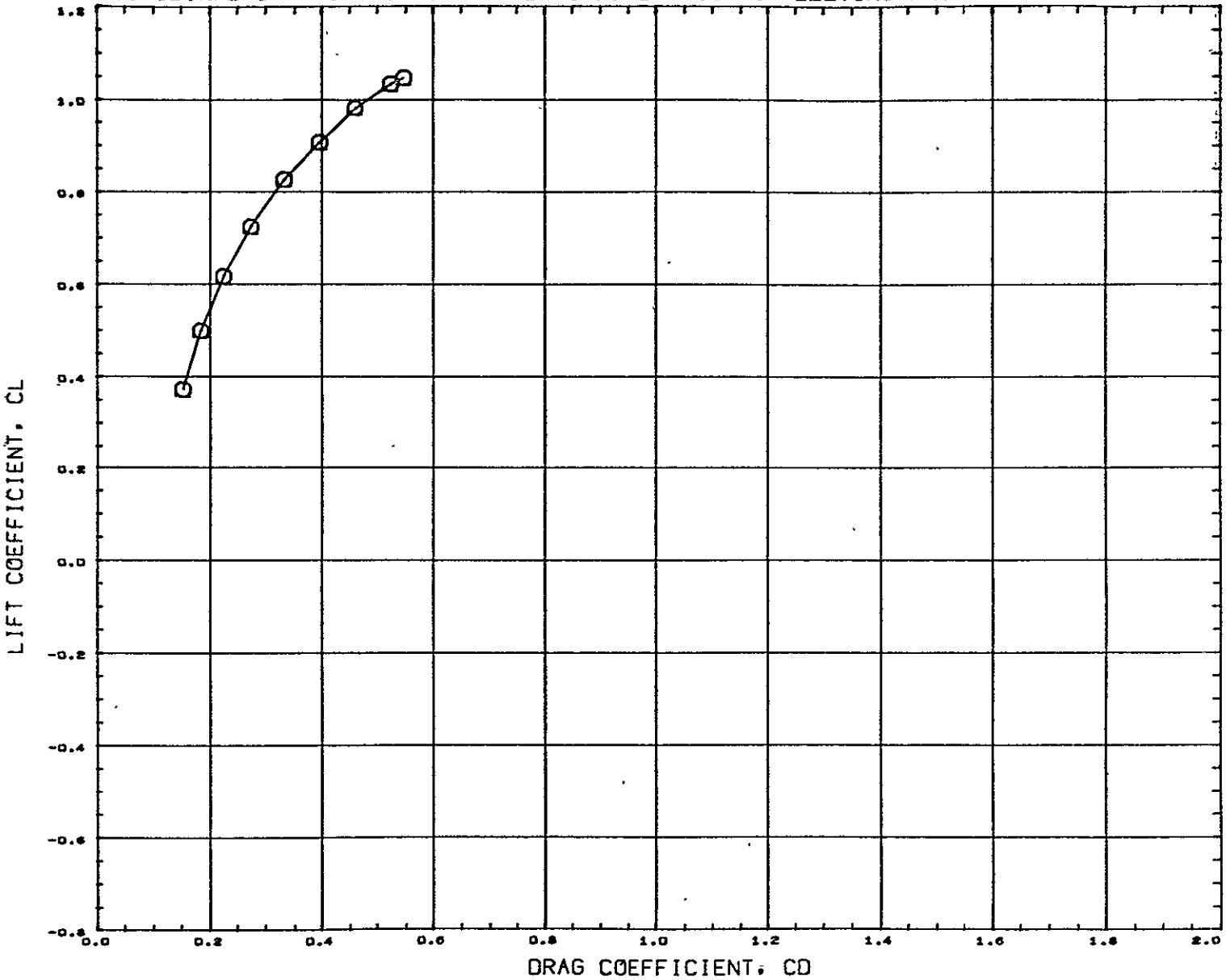
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28D01)	○	HSFC481 GD/C(BOOSTER)B19W14C4AV7
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.954

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

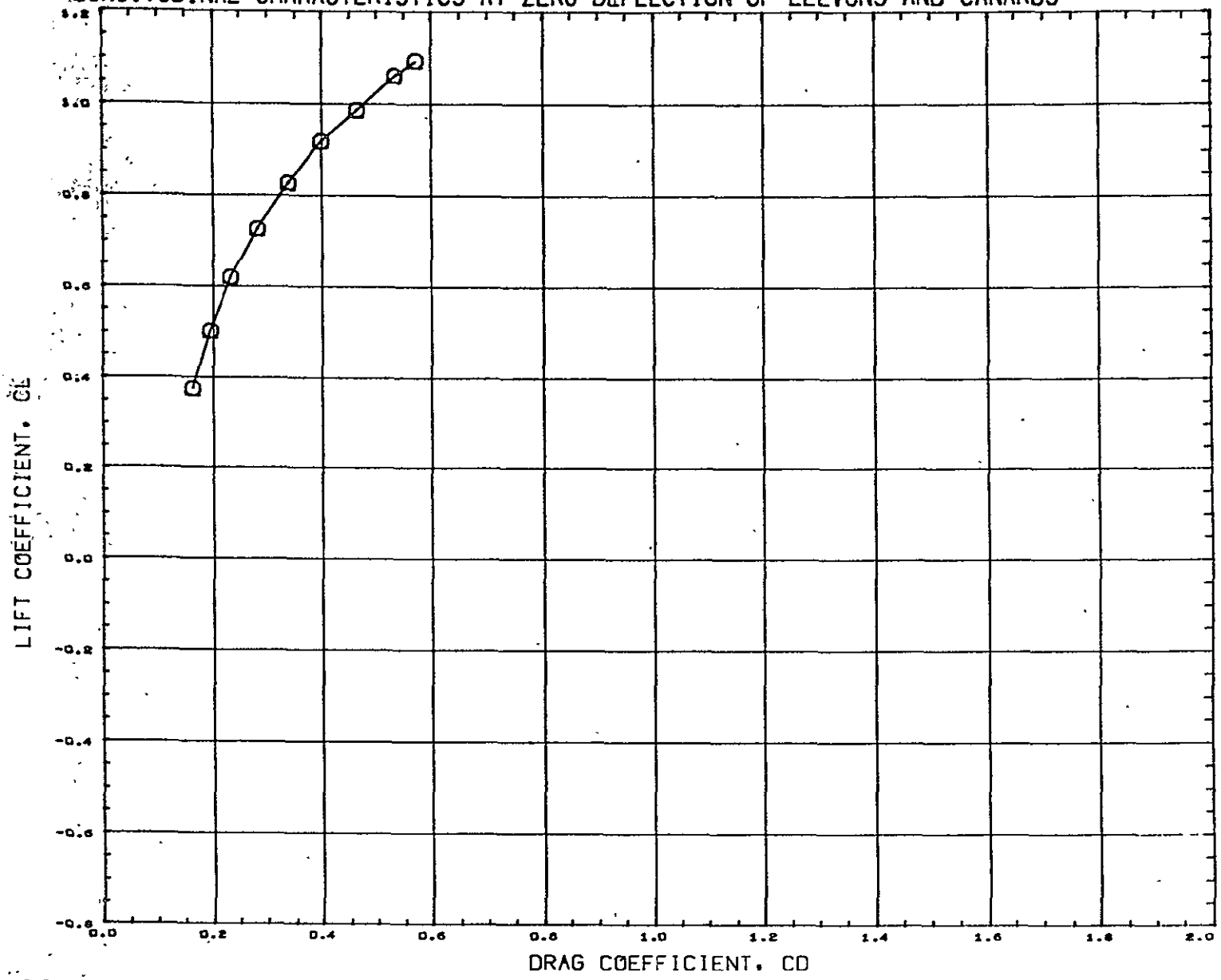


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E26B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E26C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS



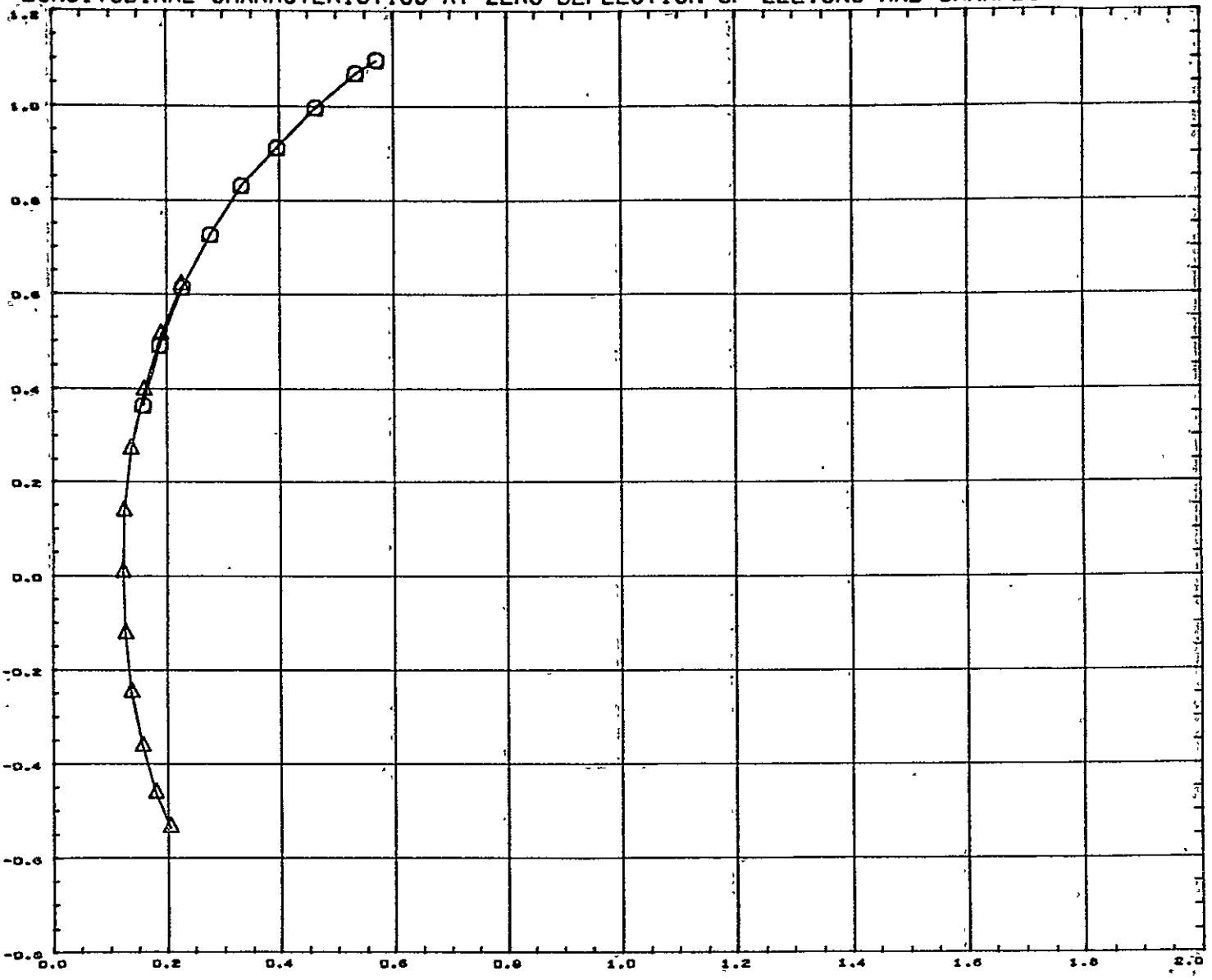
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28D01)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

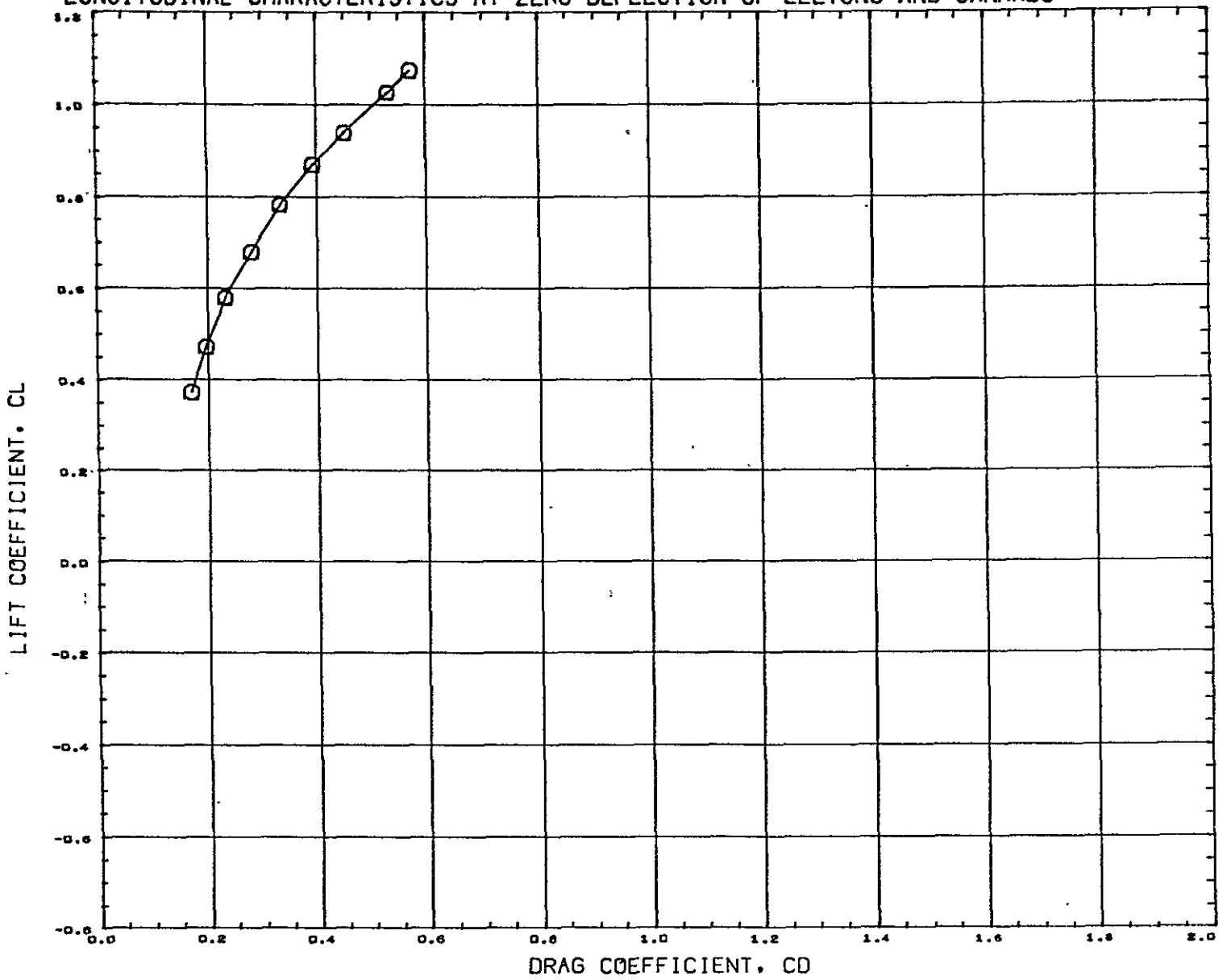


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	MSFC 461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.105

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

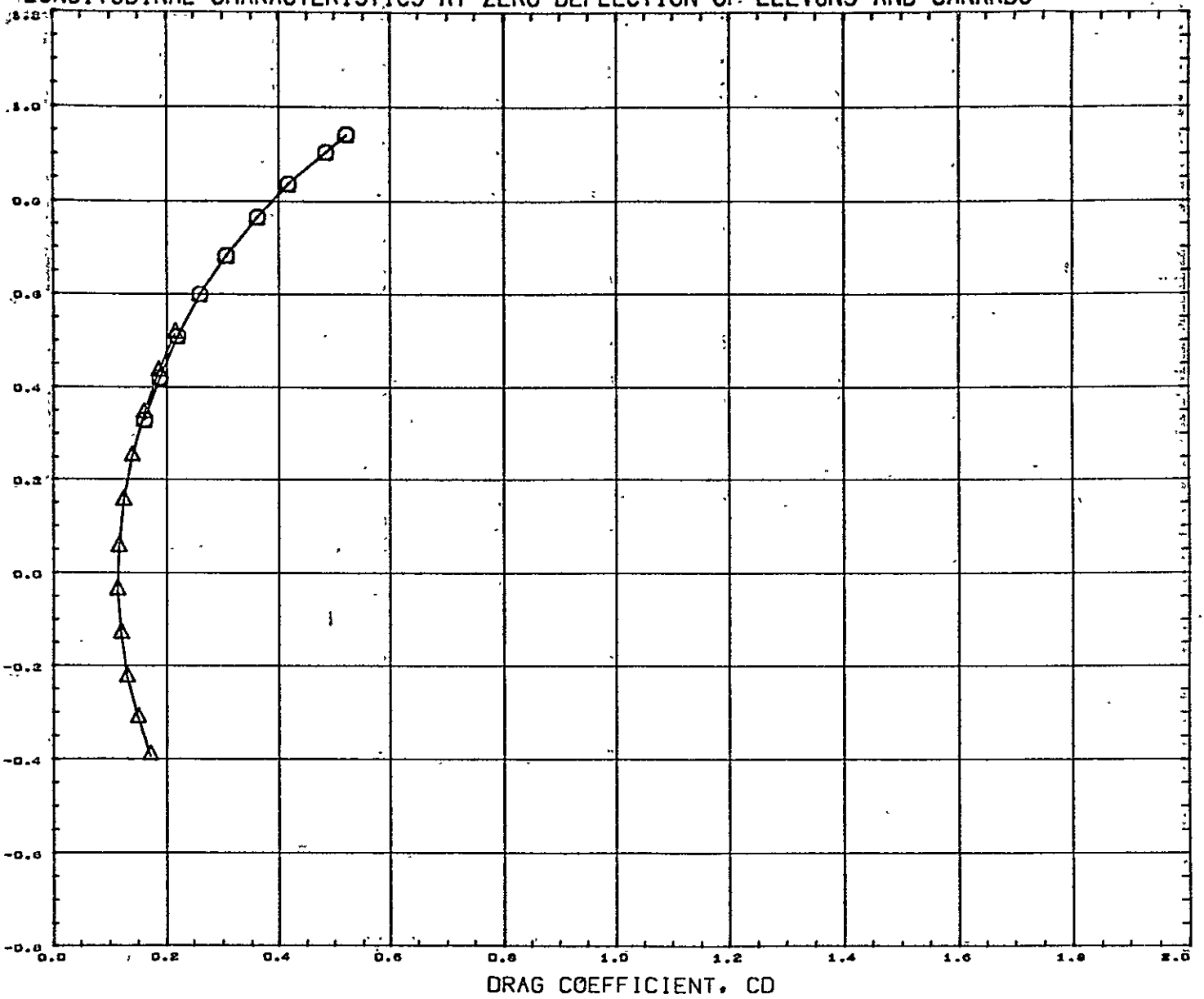


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	HSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28520)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

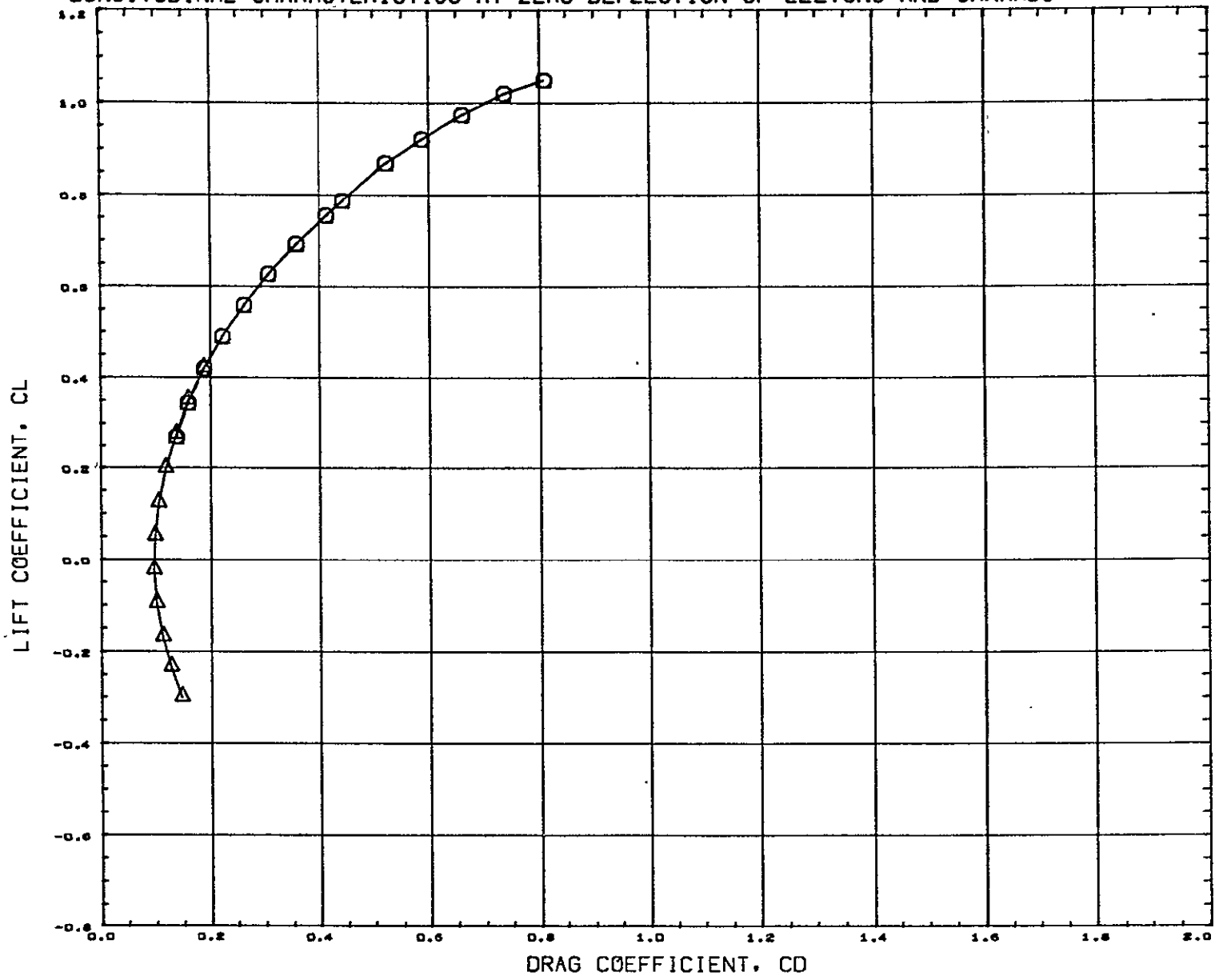


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0055	

MACH 1.462

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

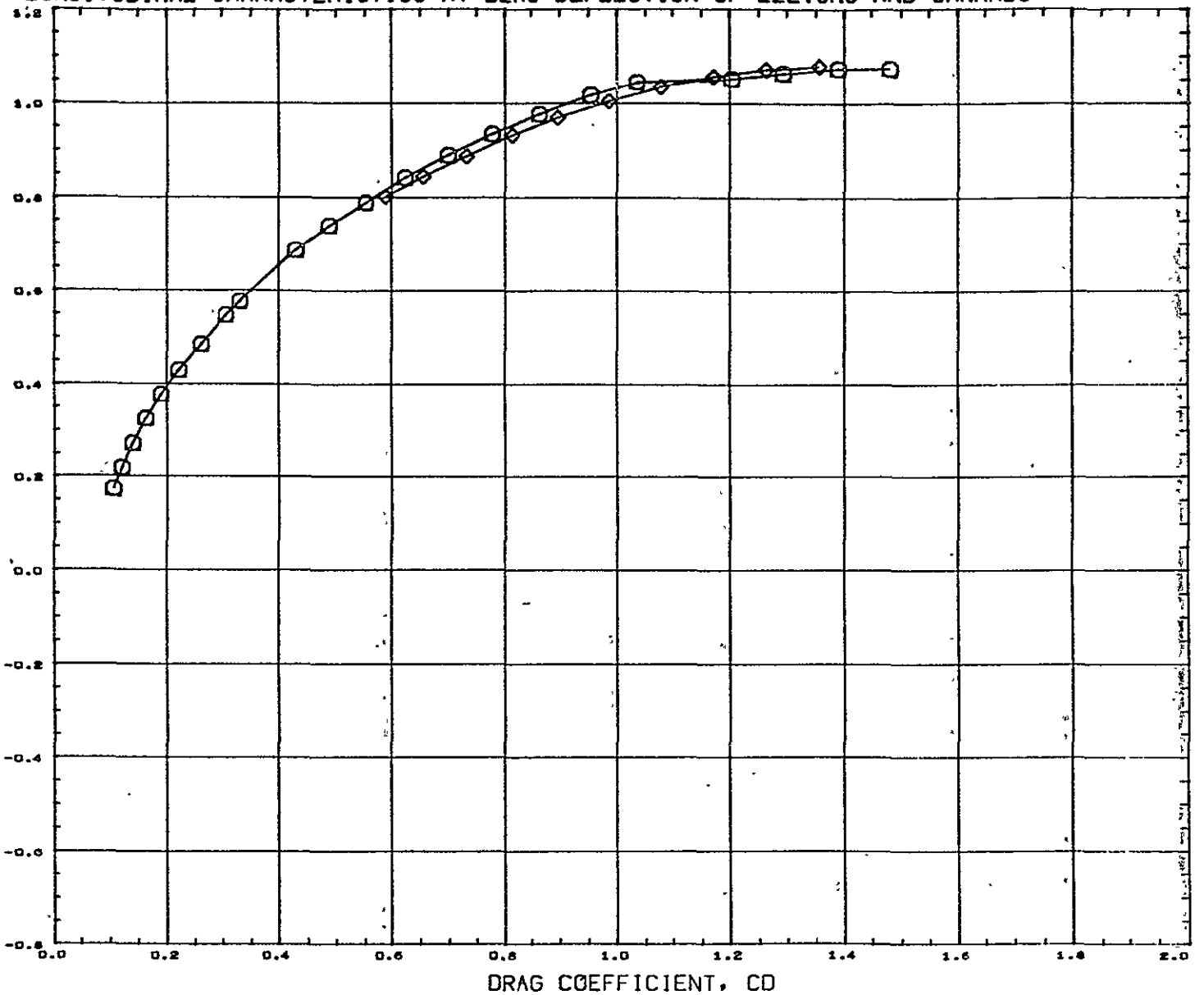


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	MSFC 461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

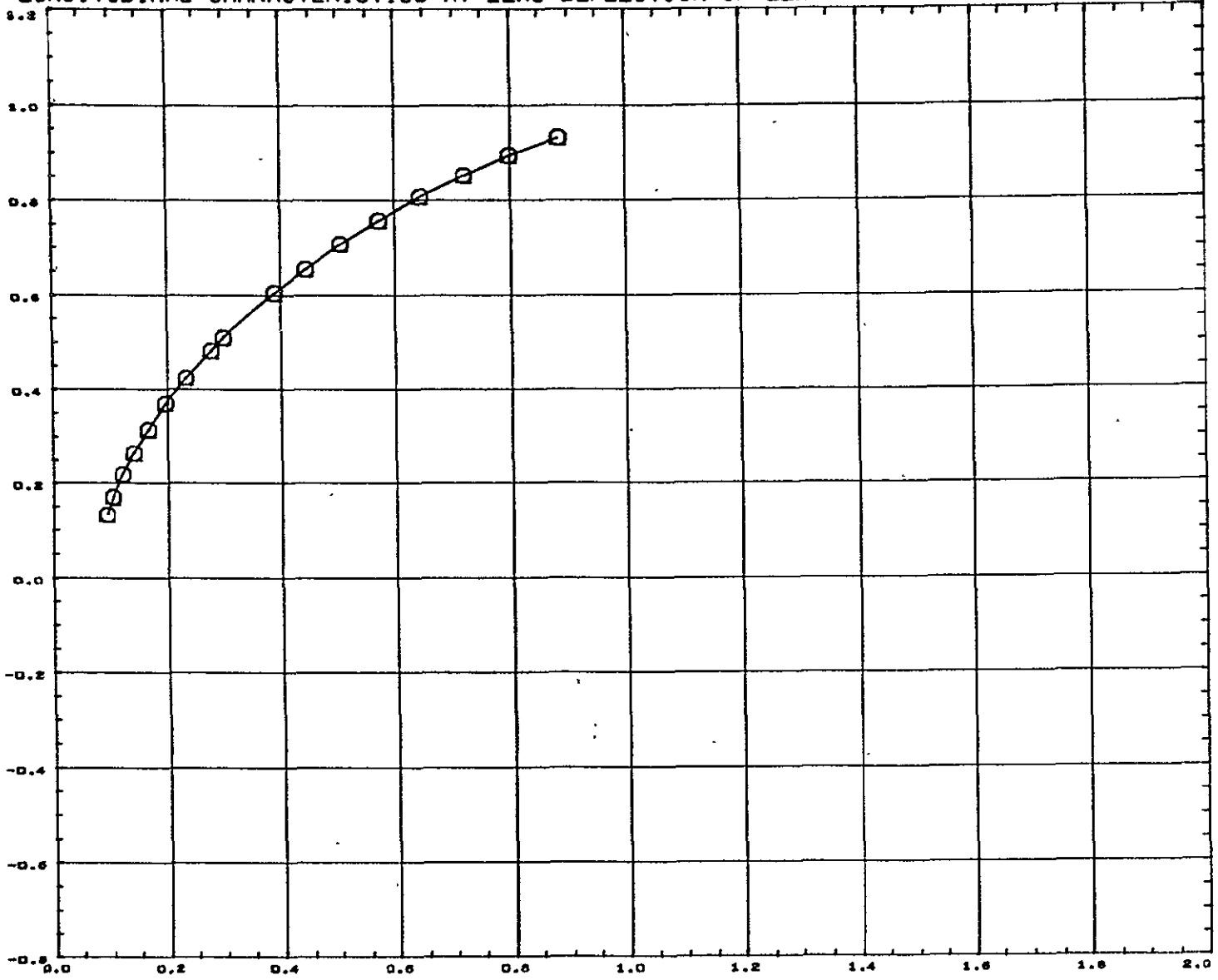


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28B20)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

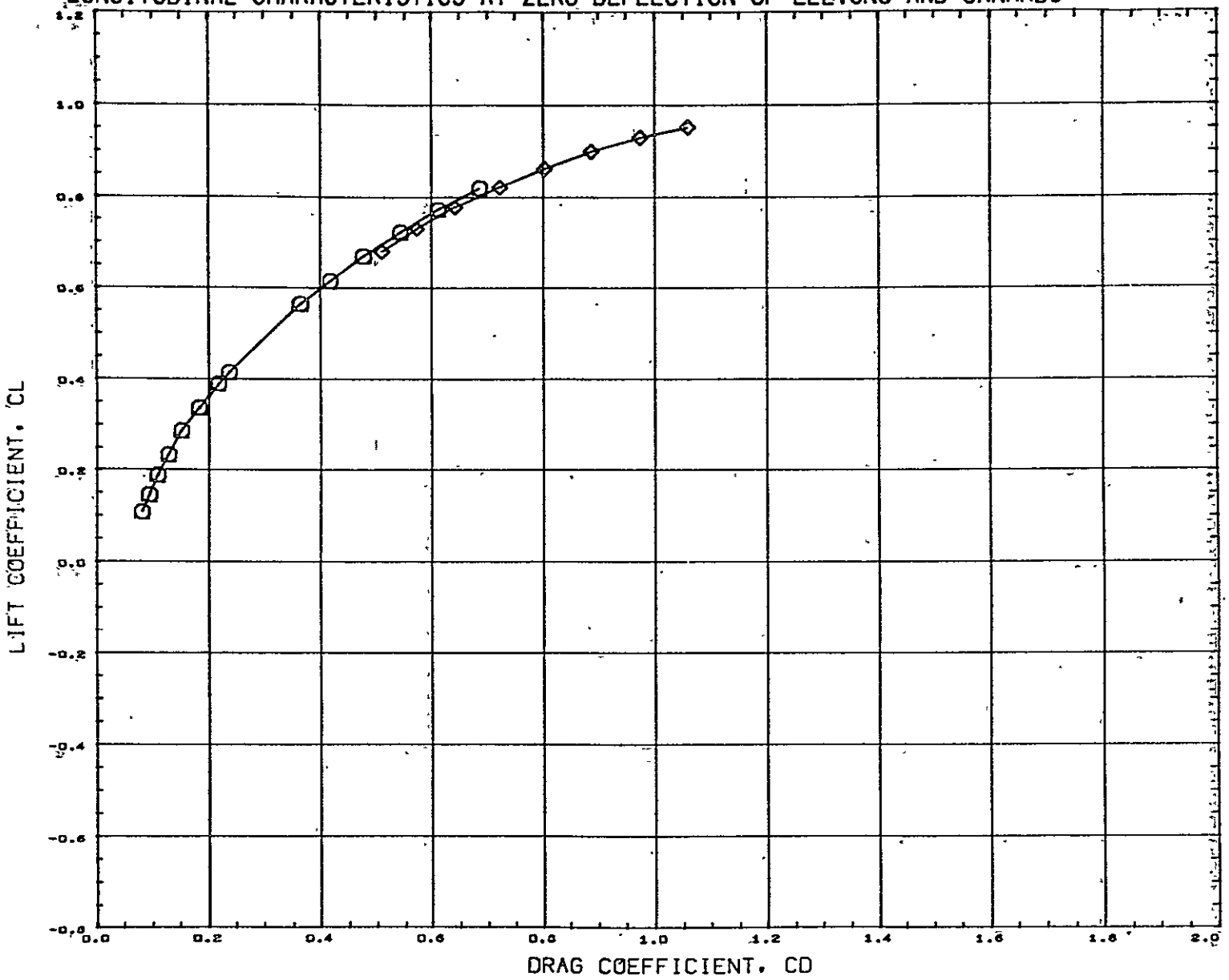


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(E28820)	☒	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.000

LONGITUDINAL CHARACTERISTICS AT ZERO DEFLECTION OF ELEVONS AND CANARDS

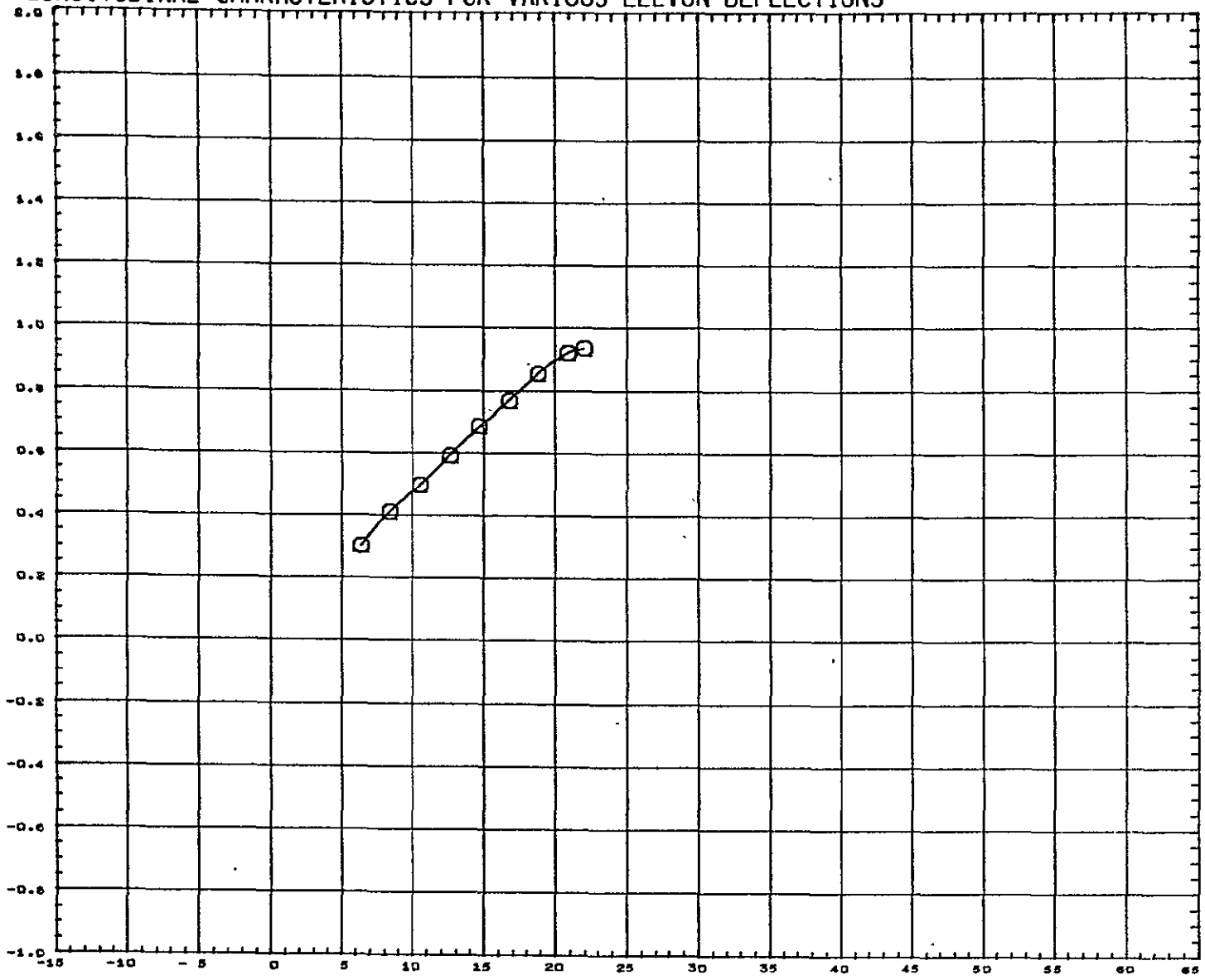


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV.7	0.000	0.000	0.000	
(E28820)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28C51)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



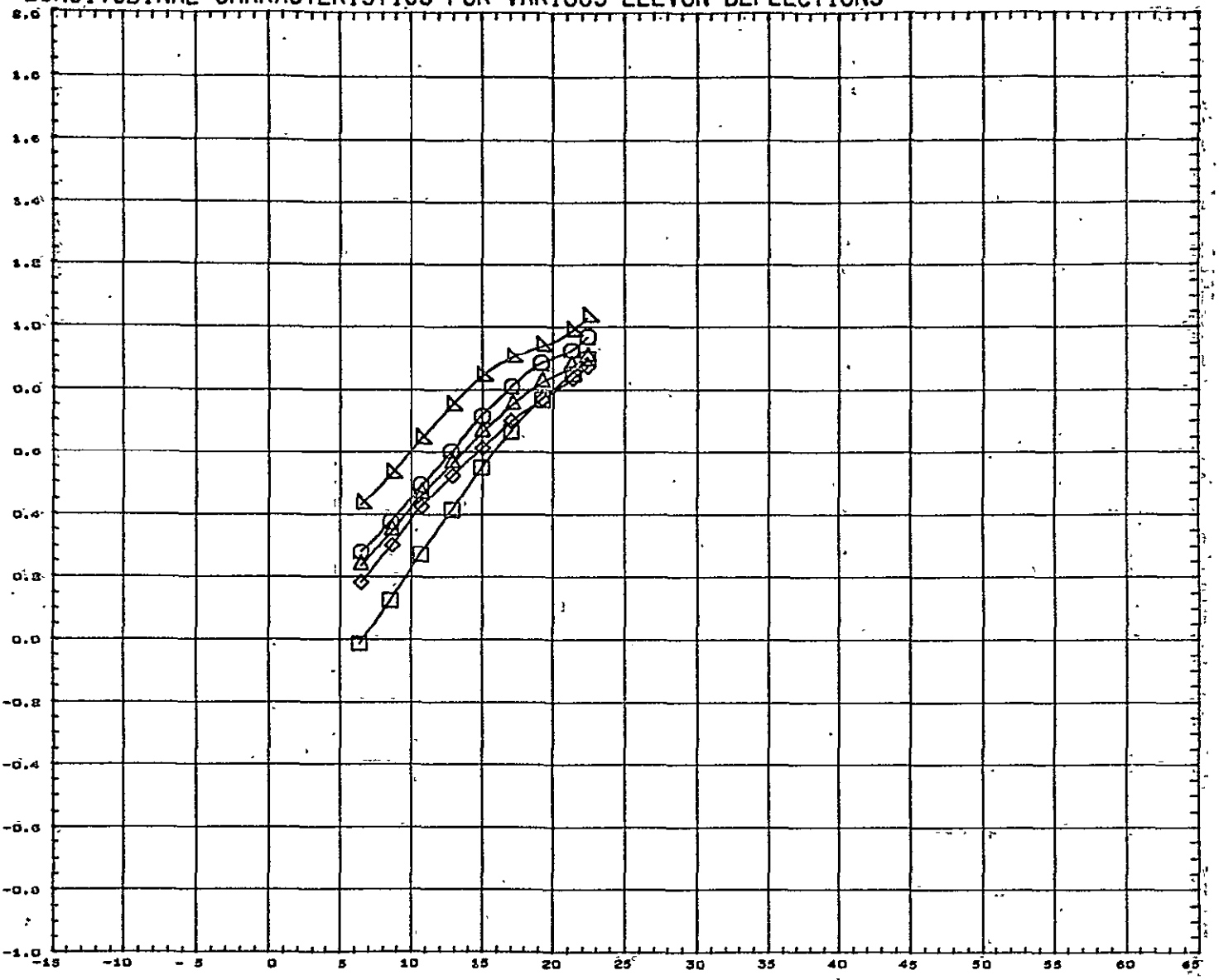
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28006)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28002)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28003)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28012)		DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 0.607

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6550	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



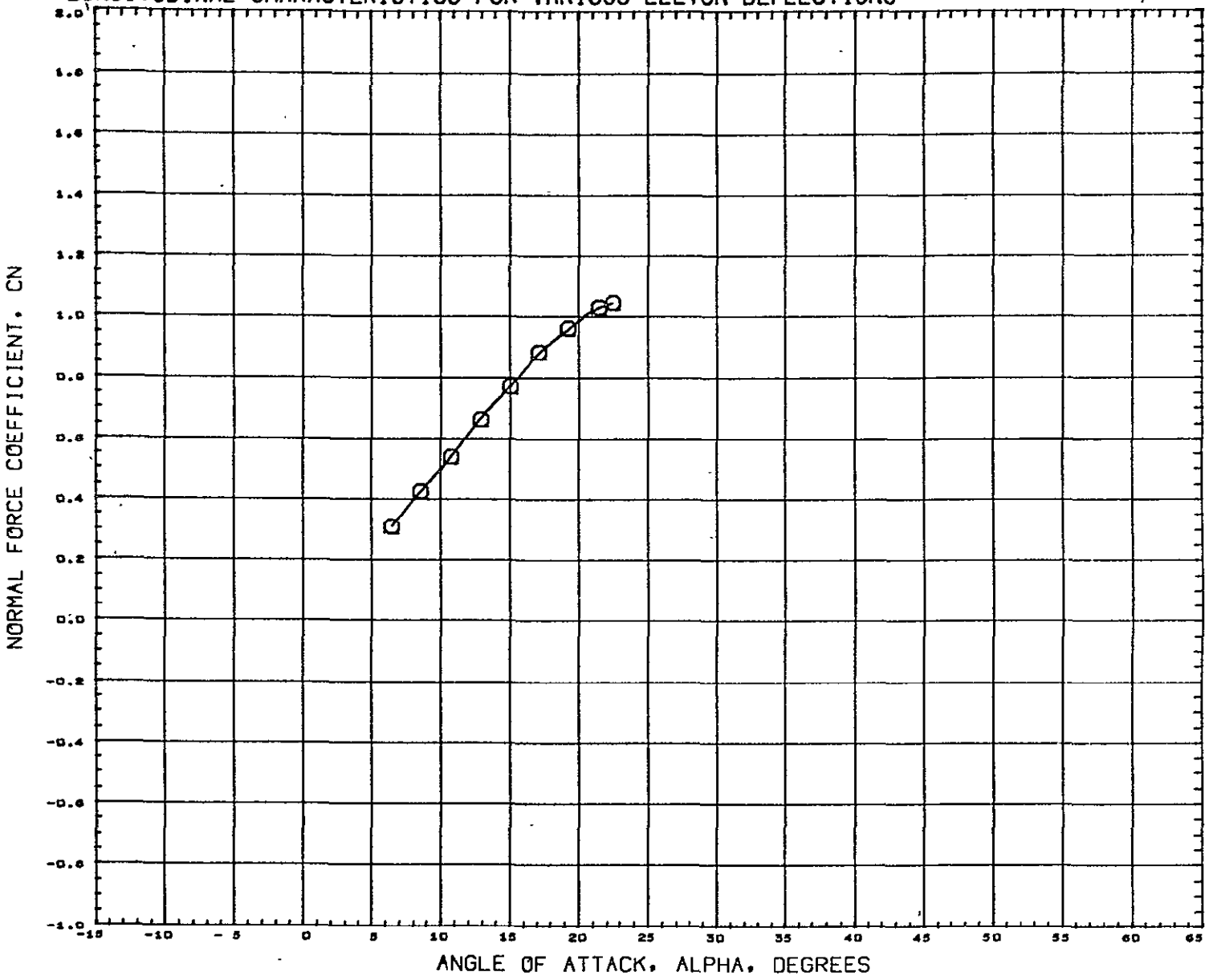
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28006)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28002)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28003)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28012)		MSFC481 GD/C(BOOSTER)B19W14C4AV7

MACH 0.900

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-30.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

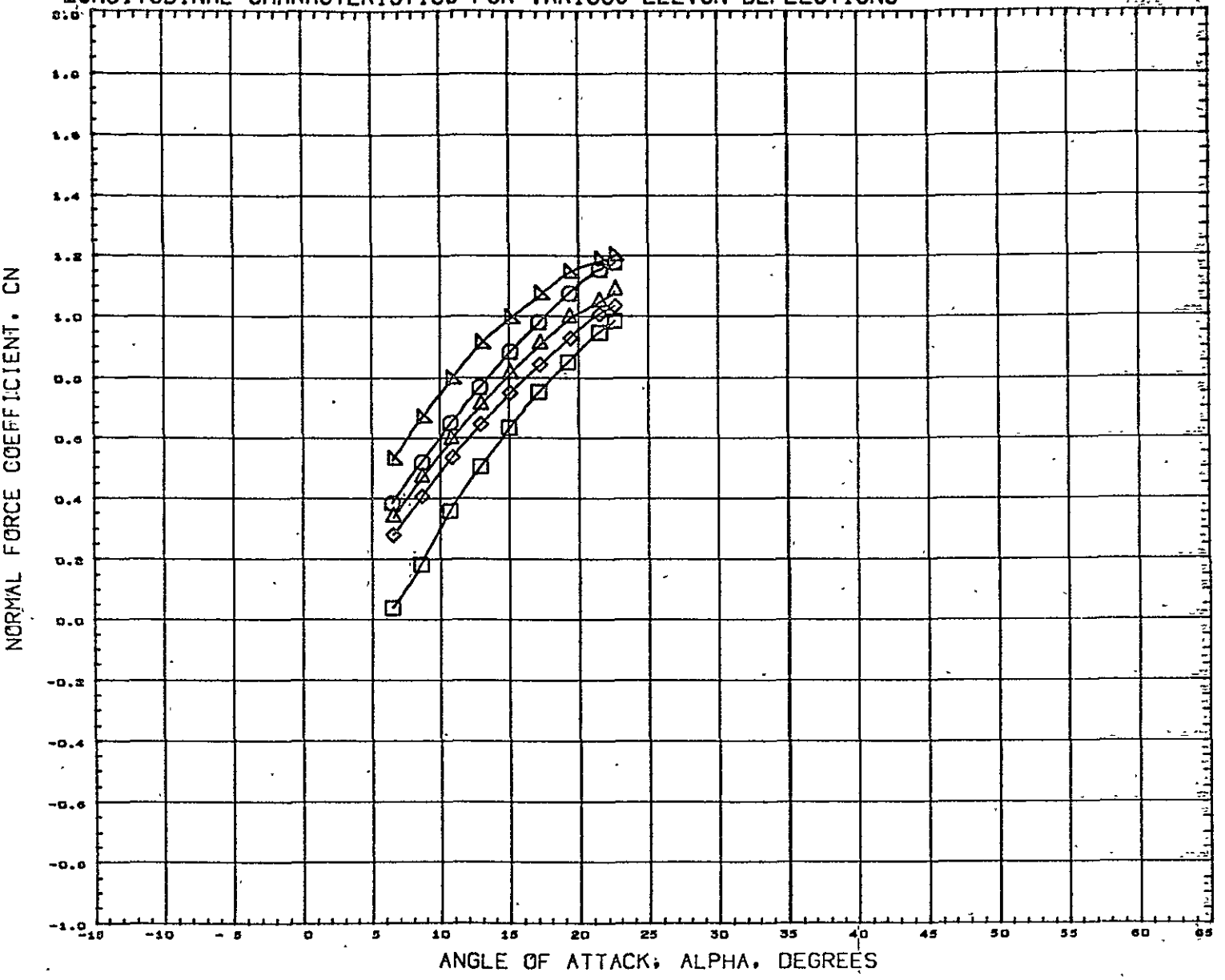


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28008)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-10.000	10.000	0.000	0.000
(C28002)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-20.000	0.000	0.000	0.000
(C28003)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000	0.000	0.000
(C28012)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 0.954

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

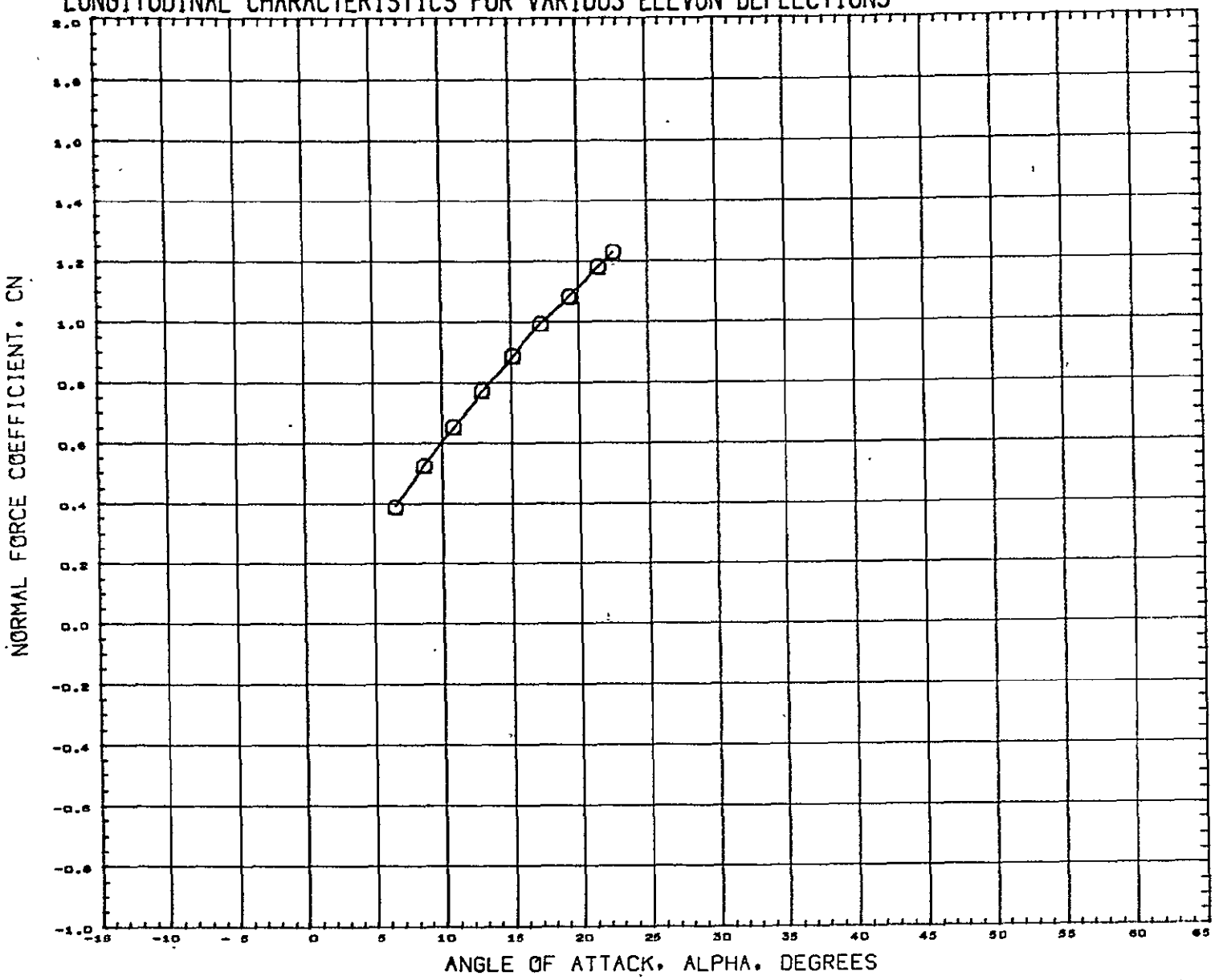


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28008)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	0.000	0.000
(C28002)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C28003)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C28012)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



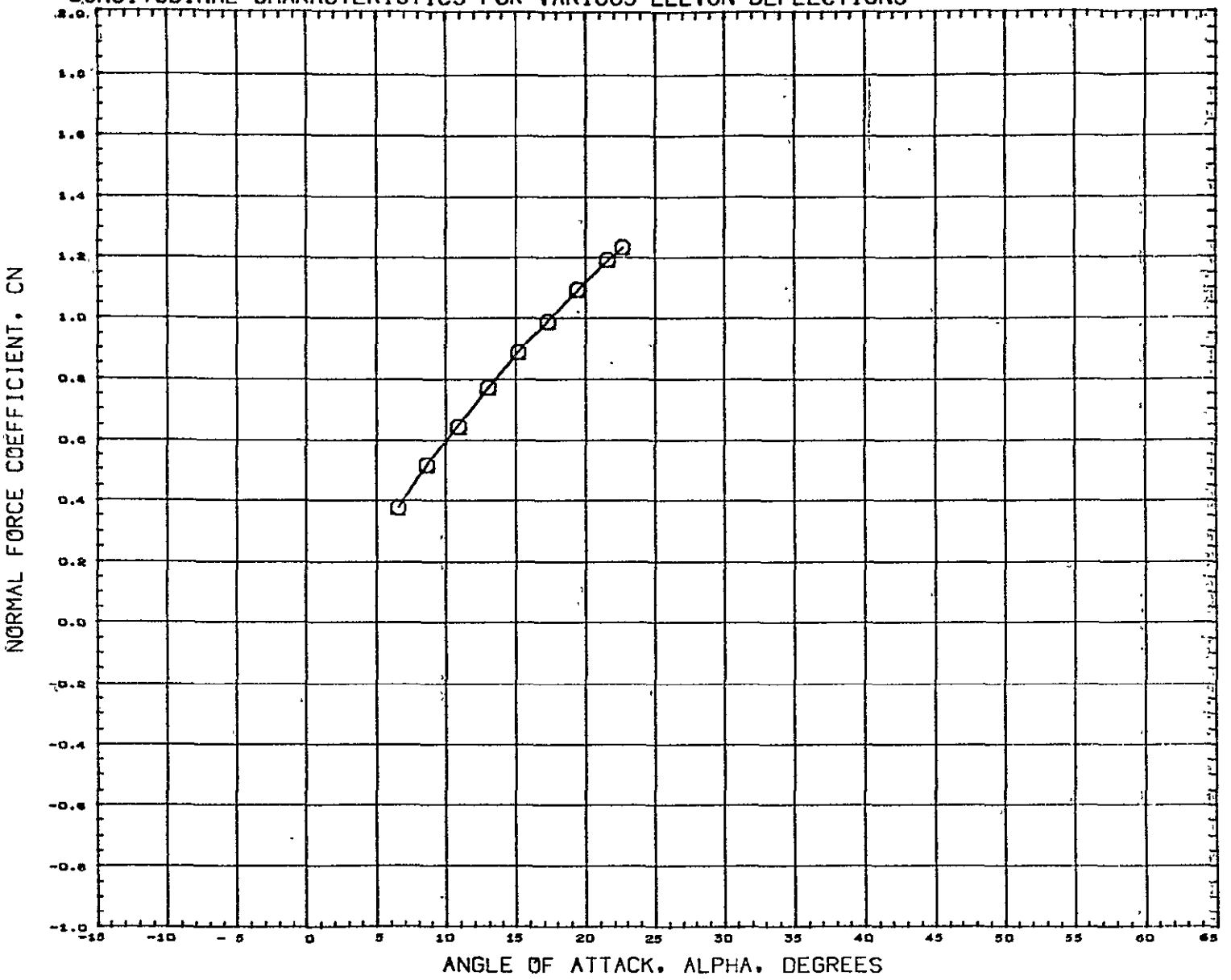
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7
(C28008)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28002)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28003)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28012)		DATA NOT AVAILABLE FOR ALL CONDITIONS

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

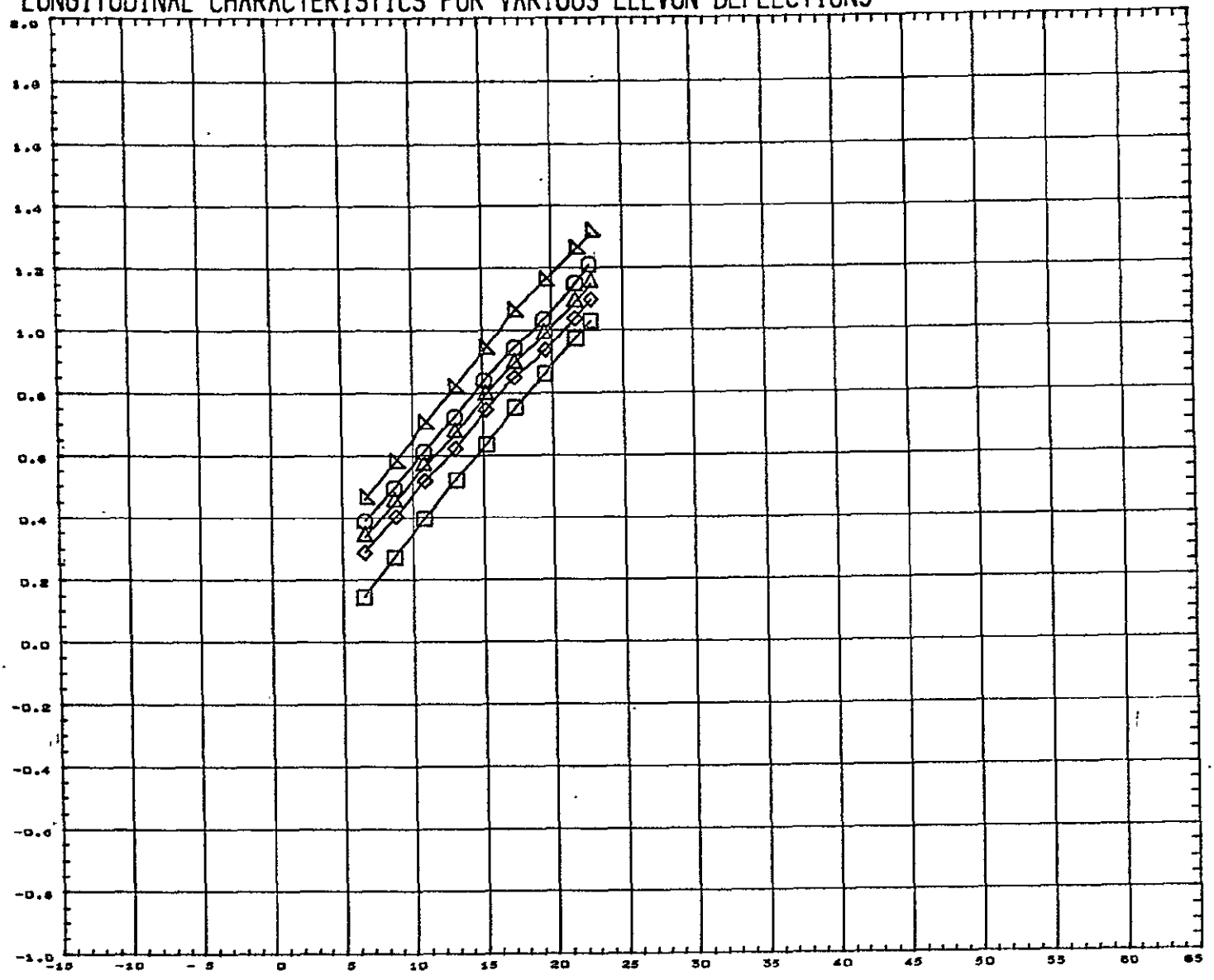


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28008)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	-10.000	10.000	0.000	0.000
(C28002)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-20.000	0.000	0.000	0.000
(C28003)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000	0.000	0.000
(C28012)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 1.105

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0033	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

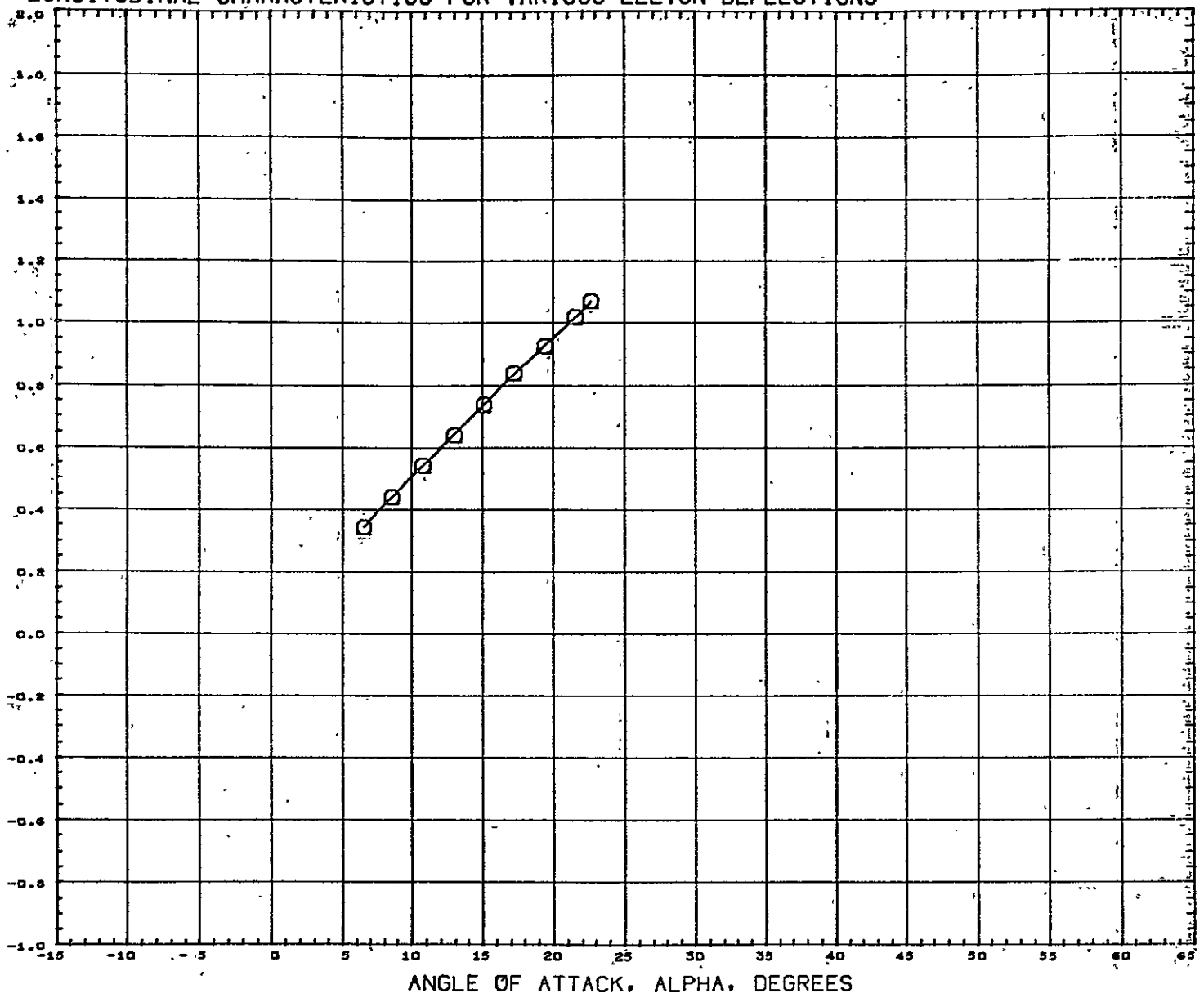


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28006)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	0.000	0.000
(C28002)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C28003)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C28012)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

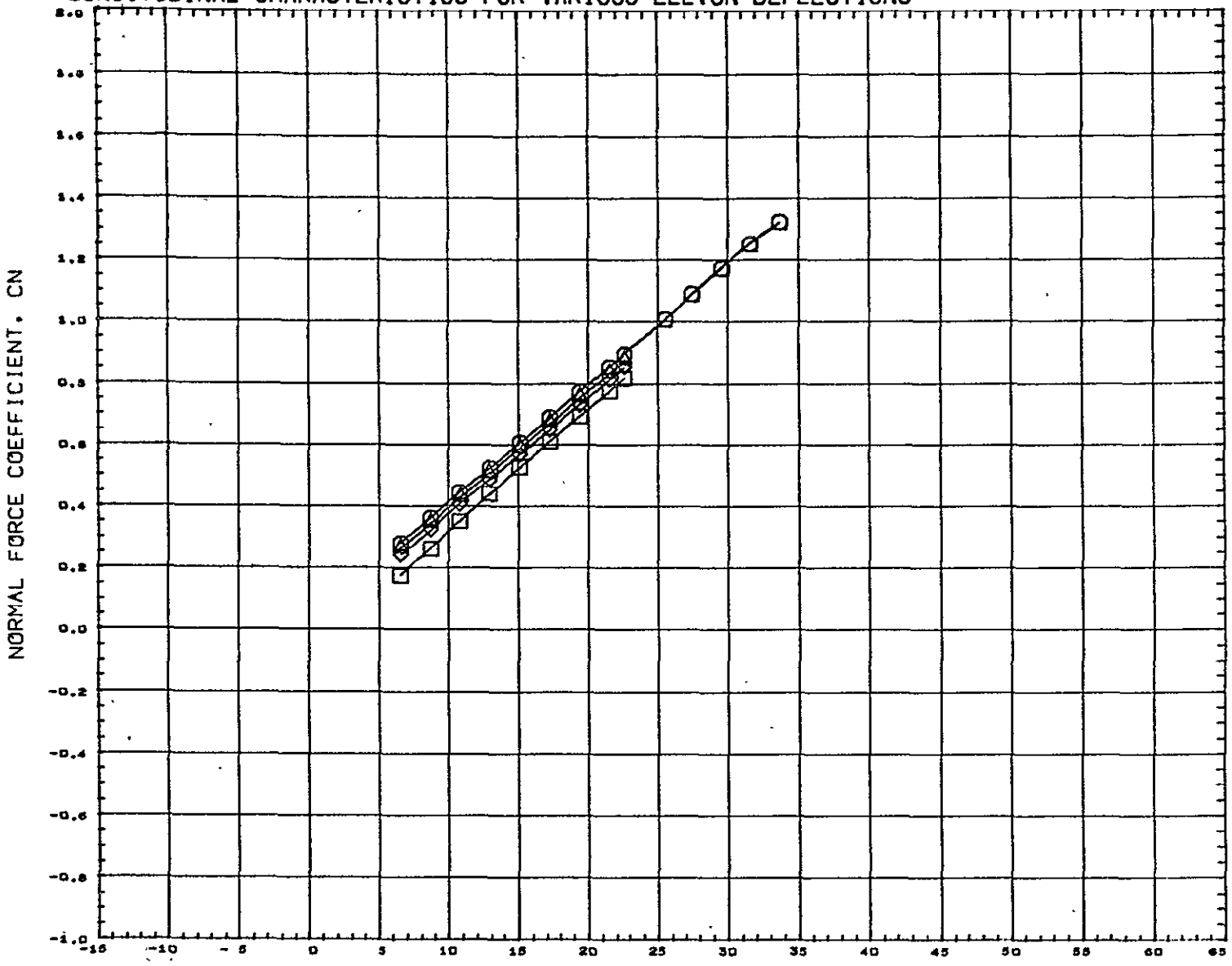


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)	○	MSEC481 6D/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28008)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	-10.000	10.000	0.000	0.000
(C28002)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-20.000	0.000	0.000	0.000
(C28003)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000	0.000	0.000
(C28012)	▷	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 1.462

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

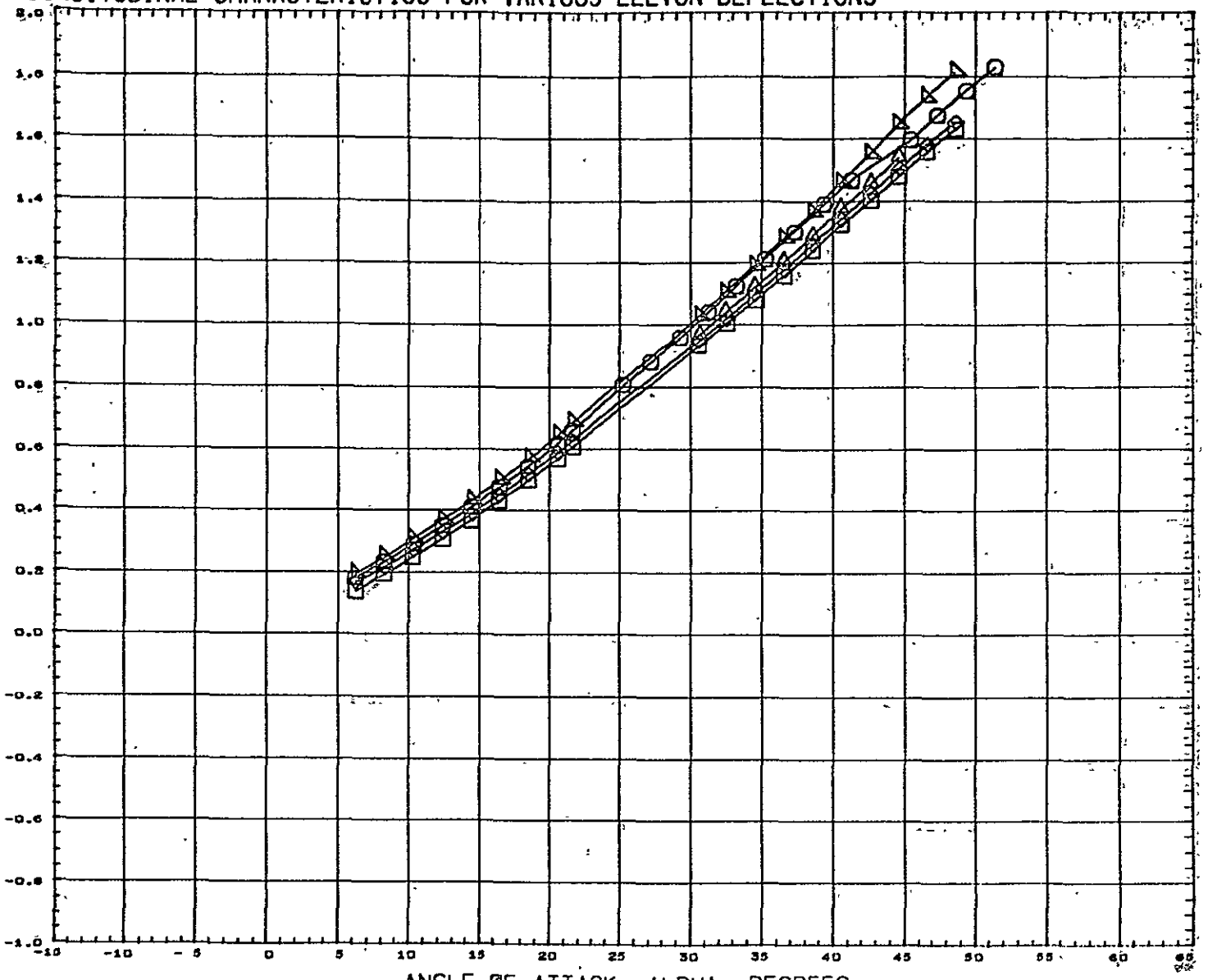


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28006)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	0.000	0.000
(C28002)	◇	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C28003)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C28012)	◺	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

(MACH 1.958

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



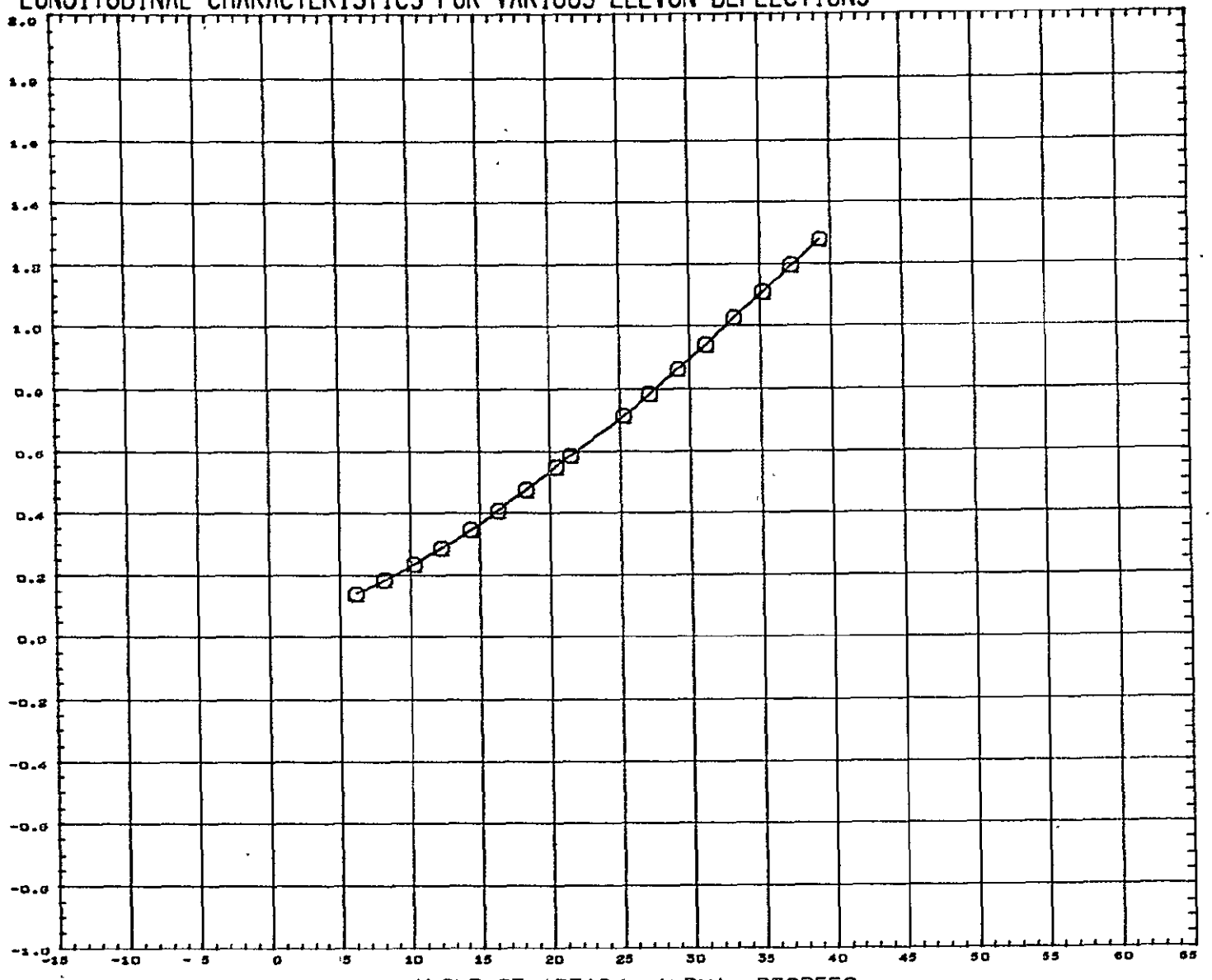
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28008)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28002)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28003)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28012)		MSFC481 GD/C(BOOSTER)B19W14C4AV7

MACH 2.990

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0033	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

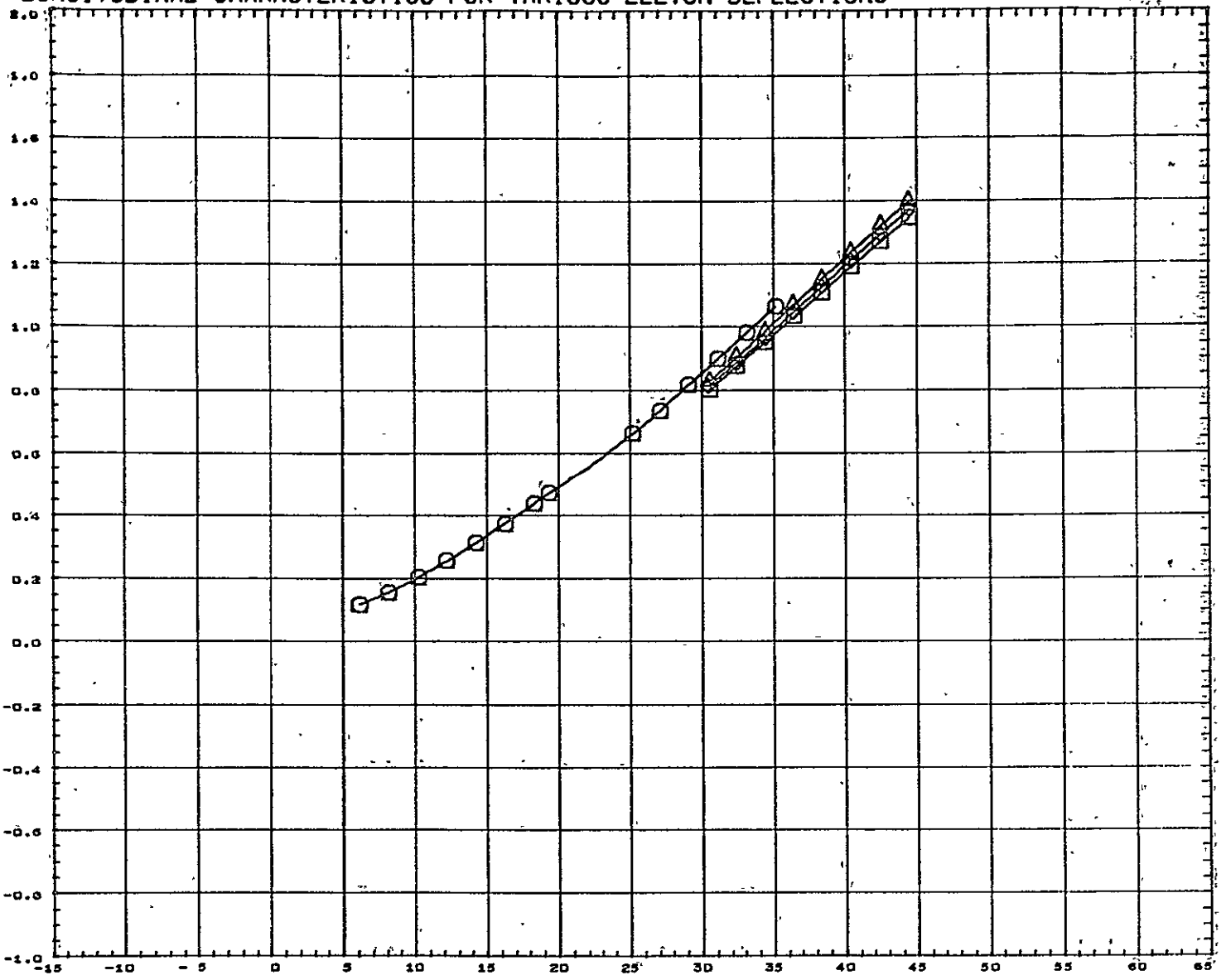


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)		M5FC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28006)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-10.000	10.000	0.000	0.000
(C28002)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-20.000	0.000	0.000	0.000
(C28003)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000	0.000	0.000
(C28012)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

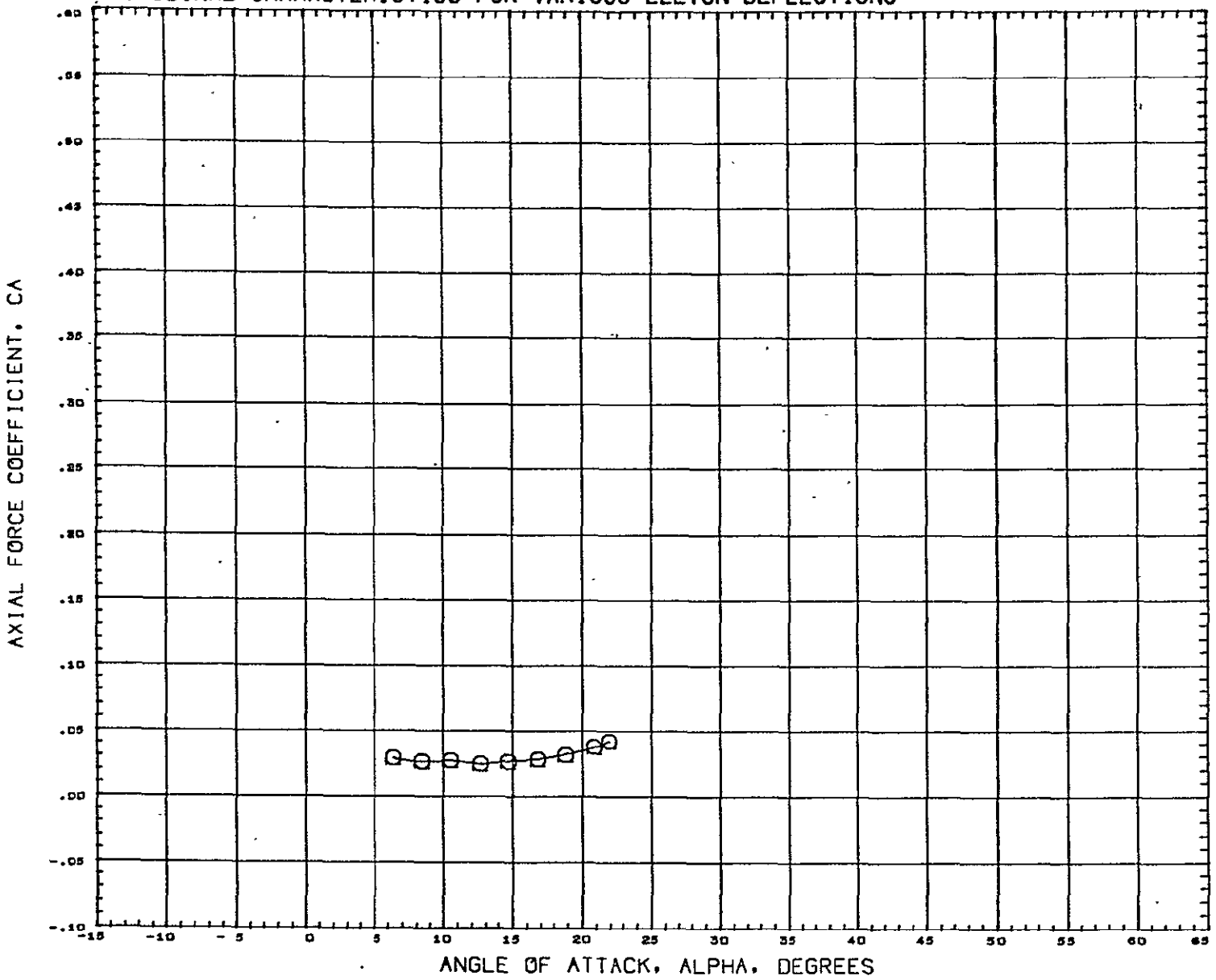


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)		HSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28008)		HSFC481 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	0.000	0.000
(C28002)		HSFC481 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C28003)		HSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C28012)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 4.960

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



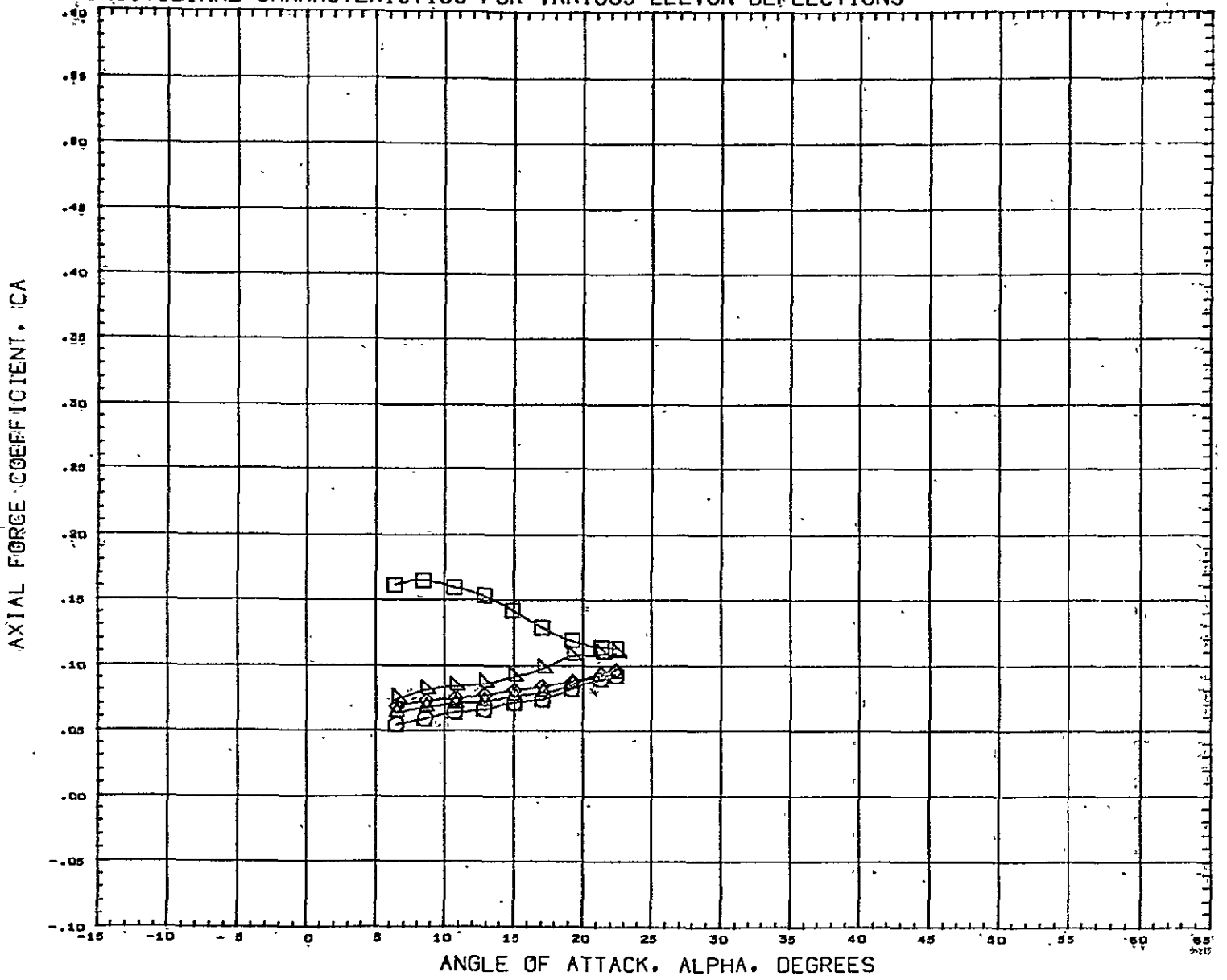
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28008)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28002)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28003)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28012)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 0.607

ELEVON	AILRON	CANARD	BETA
-0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



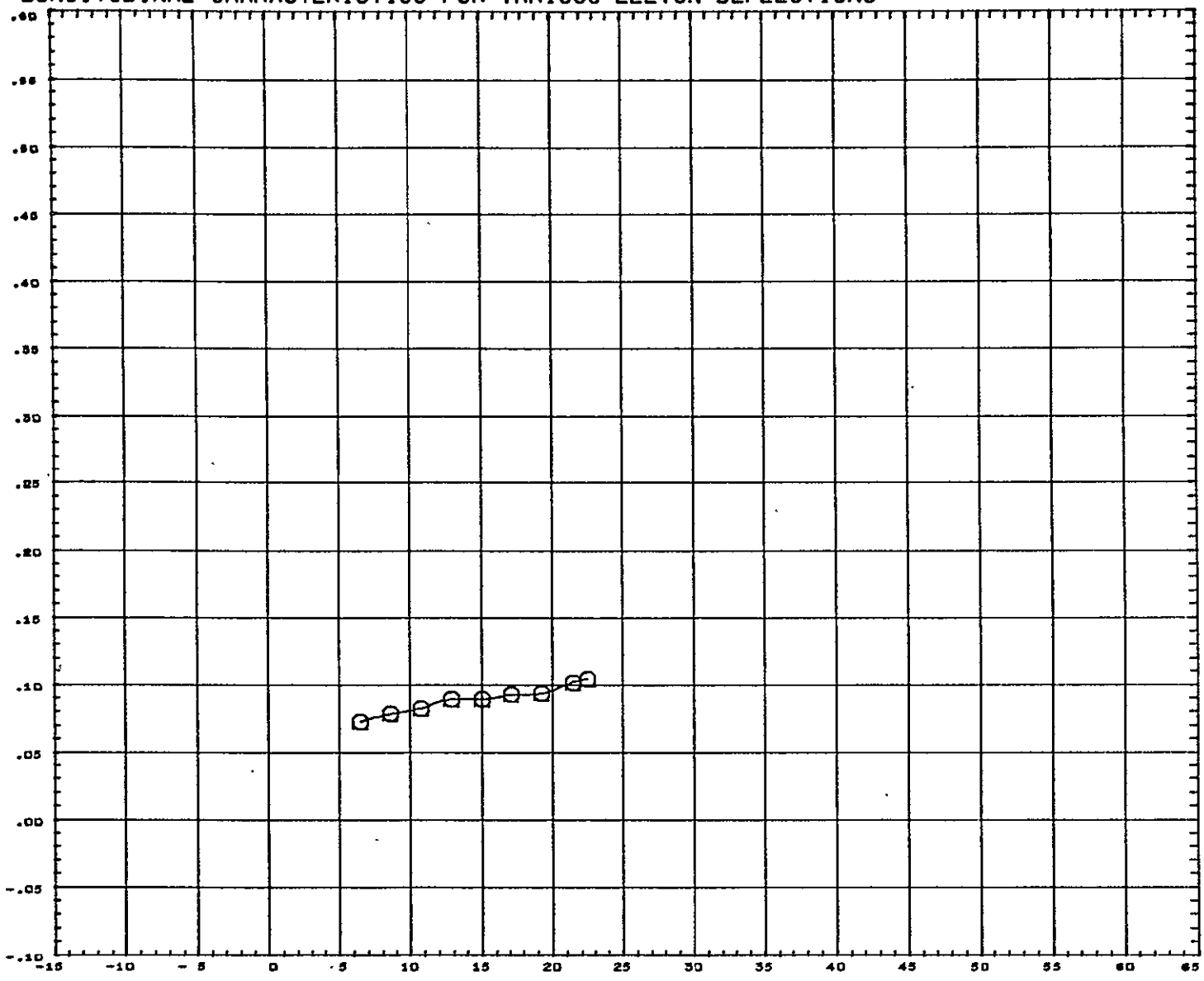
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28006)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28002)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28005)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28012)		MSFC481 GD/C(BOOSTER)B19W14C4AV7

MACH 0.900

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0960	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

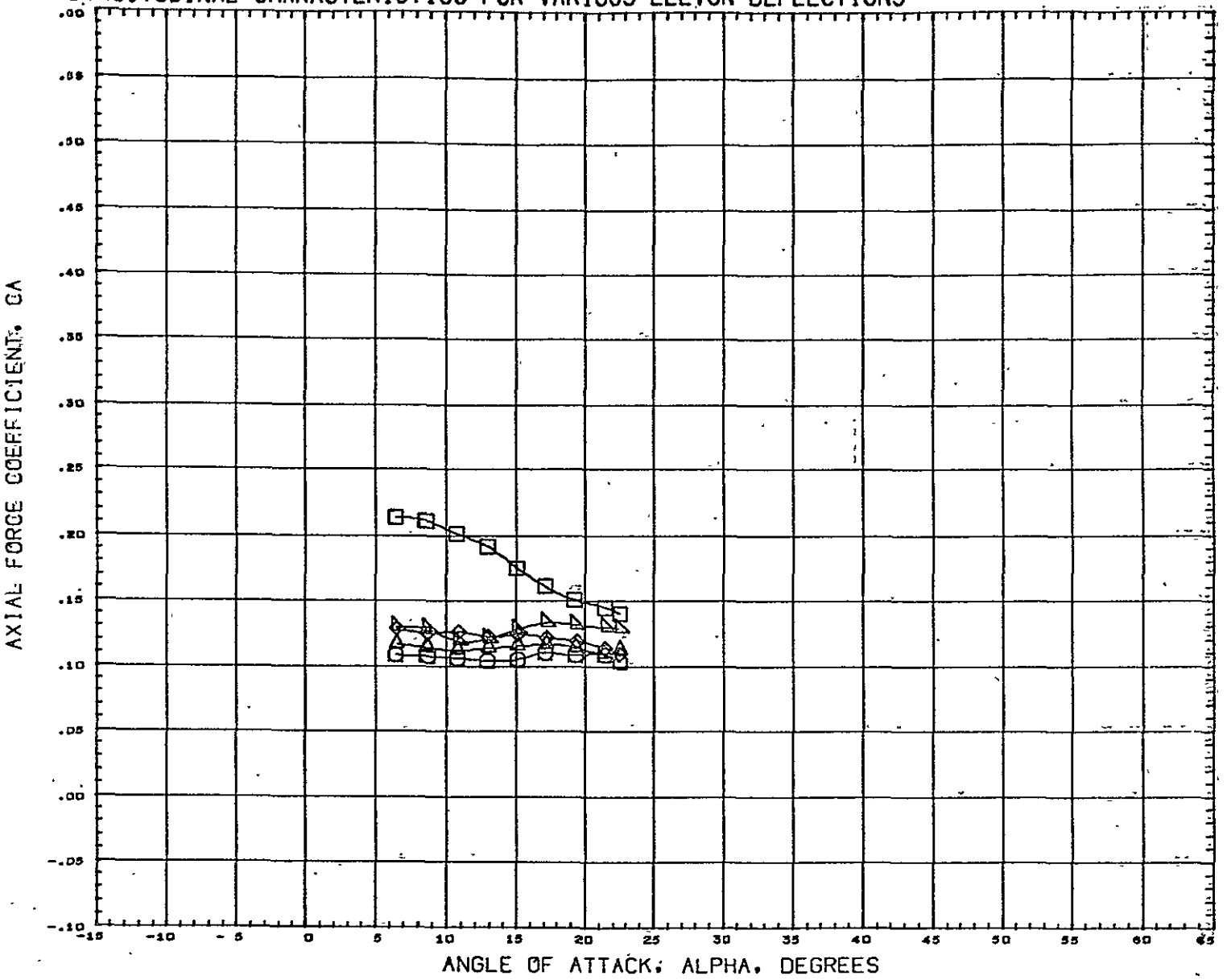


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28006)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	-10.000	10.000	0.000	0.000
(C28002)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-20.000	0.000	0.000	0.000
(C28003)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000	0.000	0.000
(C28012)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 0.954

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



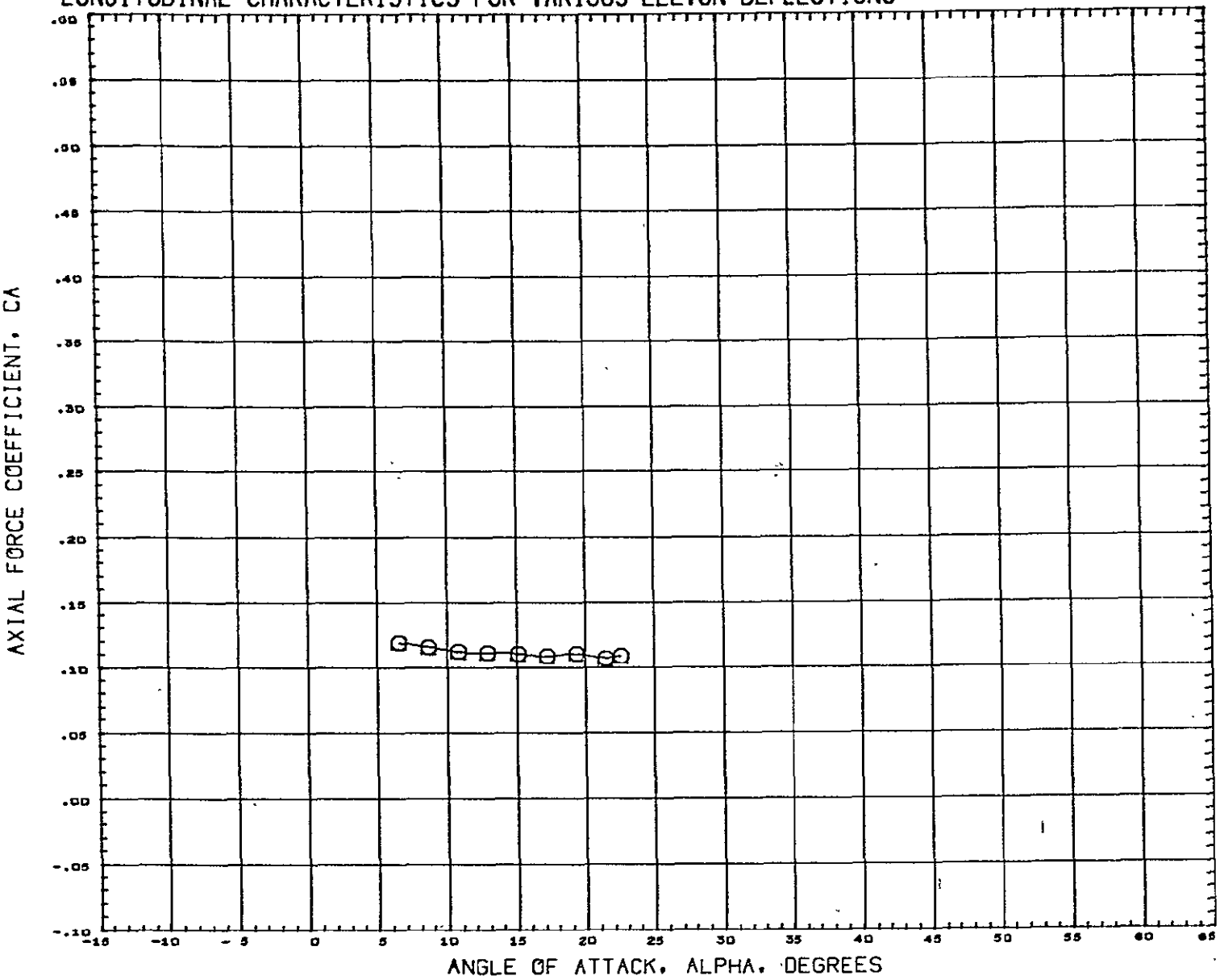
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28006)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28002)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28003)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28012)		MSFC481 GD/C(BOOSTER)B19W14C4AV7

MACH 1.007

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

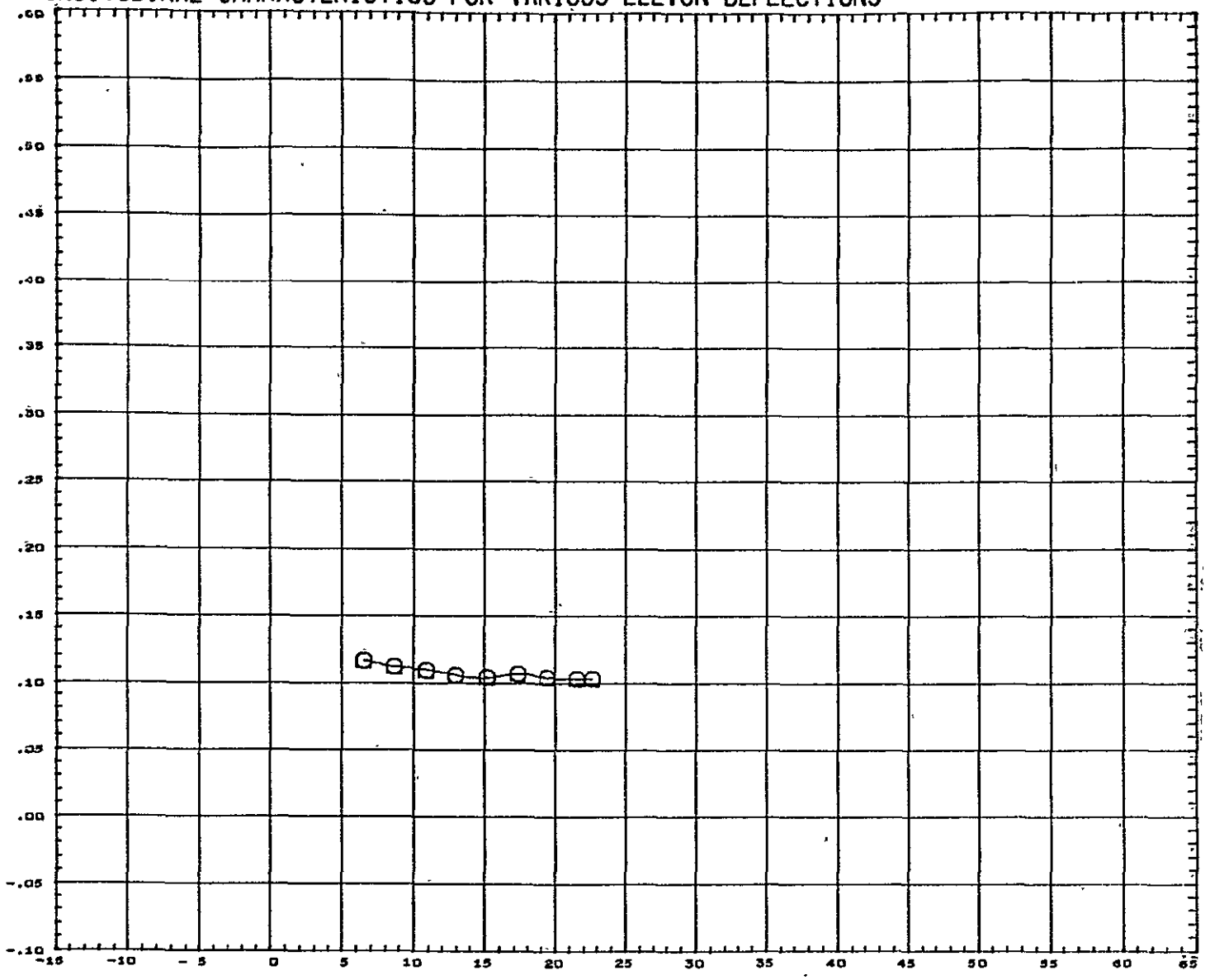


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28008)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-10.000	10.000	0.000	0.000
(C28002)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-20.000	0.000	0.000	0.000
(C28003)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000	0.000	0.000
(C28012)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 1.051

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

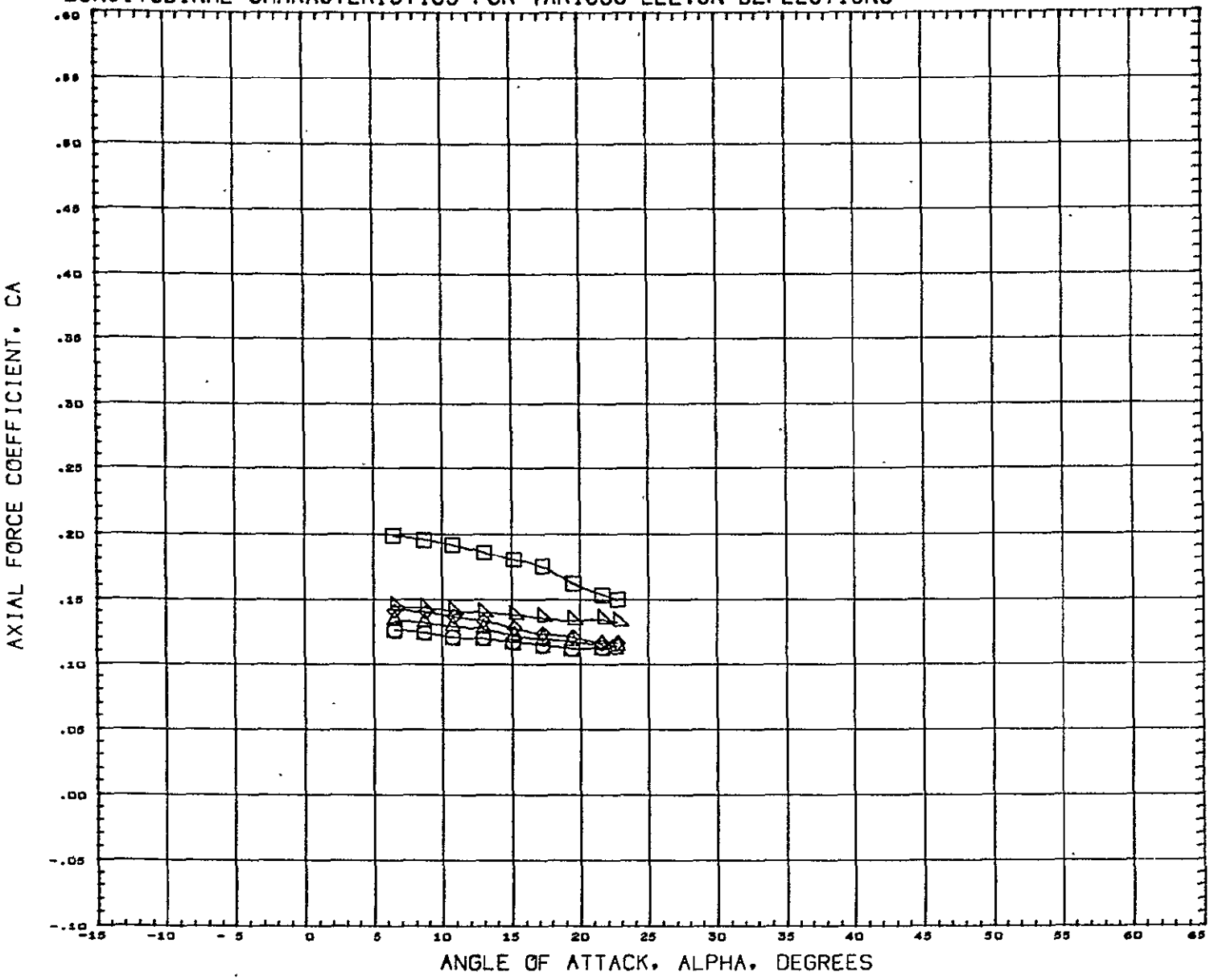


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28008)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-10.000	10.000	0.000	0.000
(C28002)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-20.000	0.000	0.000	0.000
(C28003)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000	0.000	0.000
(C28012)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 1.105

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

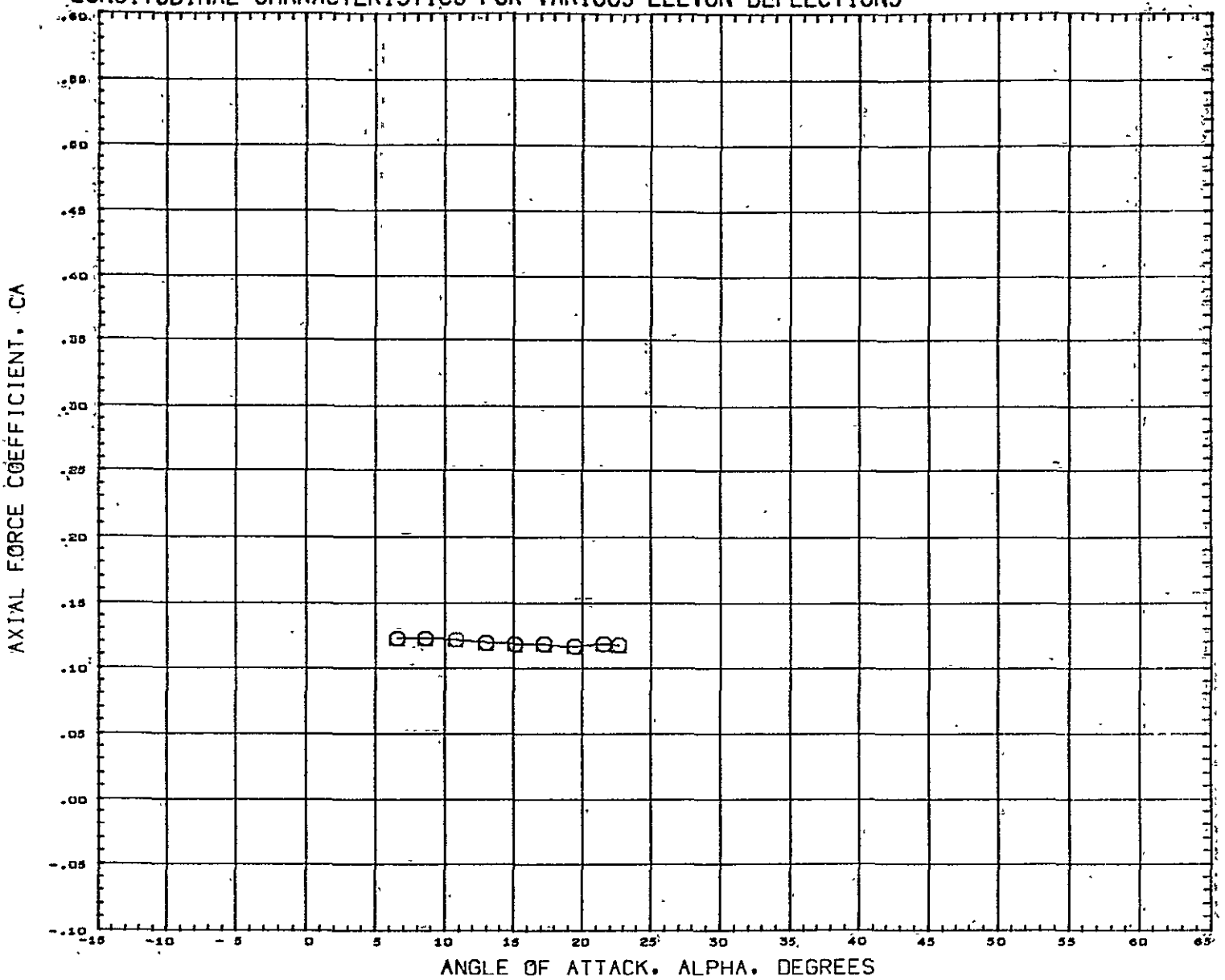


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28005)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	0.000	0.000
(C28002)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C28003)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C28012)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	10.000	0.000	0.000	0.000

MACH 1.201

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



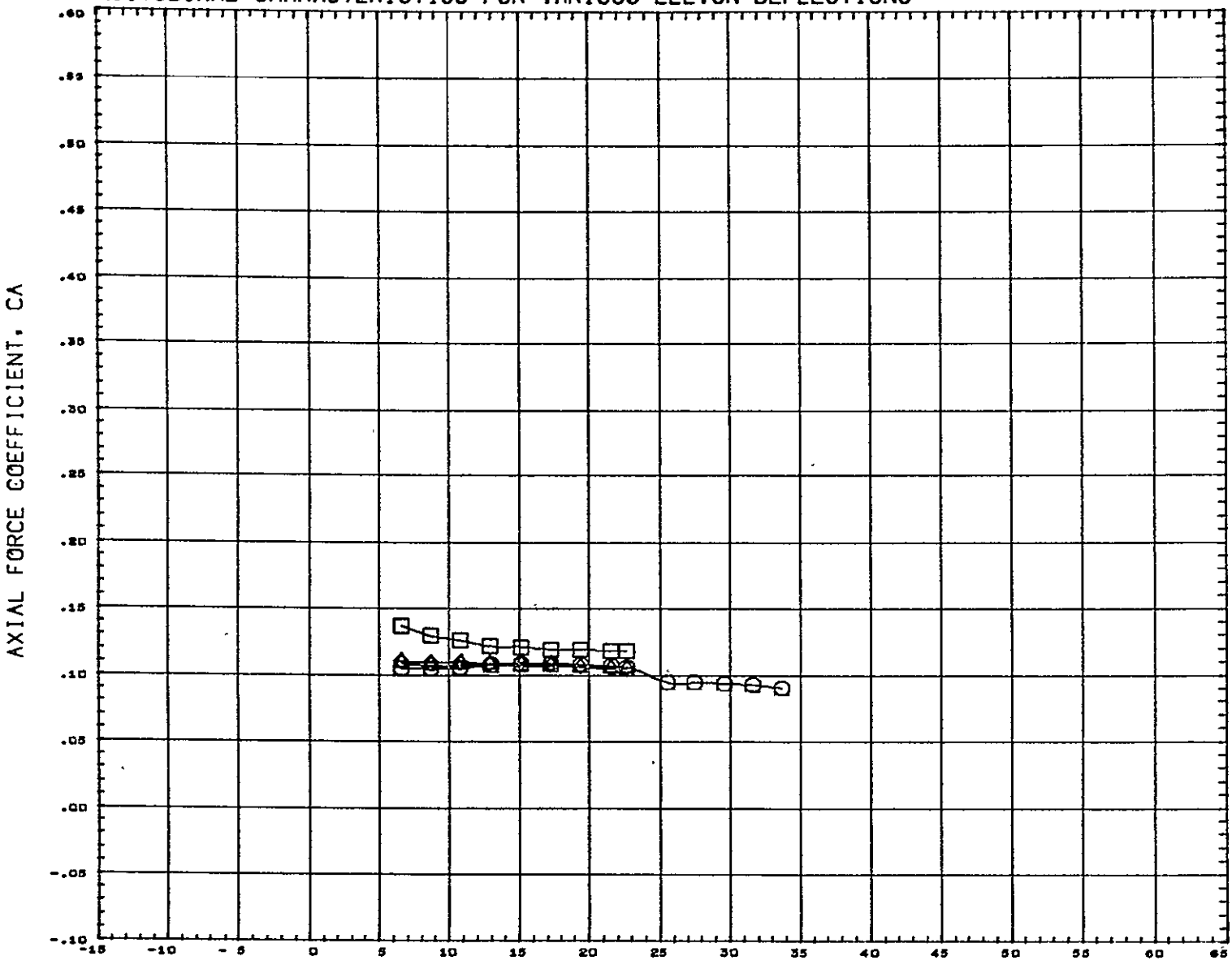
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C26001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C26008)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C26002)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C26003)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C26012)		DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 1.462

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

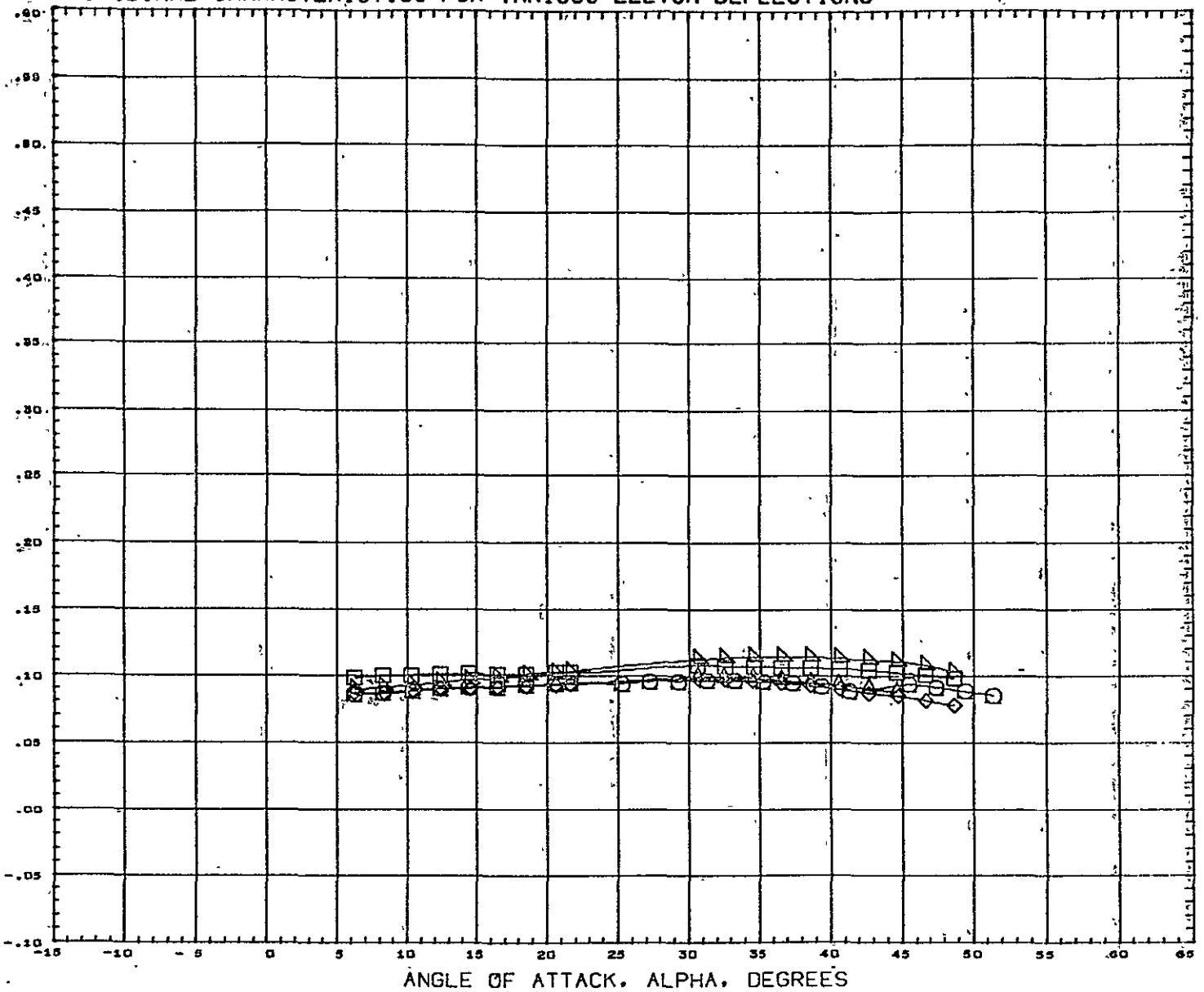


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C26001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C26008)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	0.000	0.000
(C26002)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C26003)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C26012)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 1.958

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

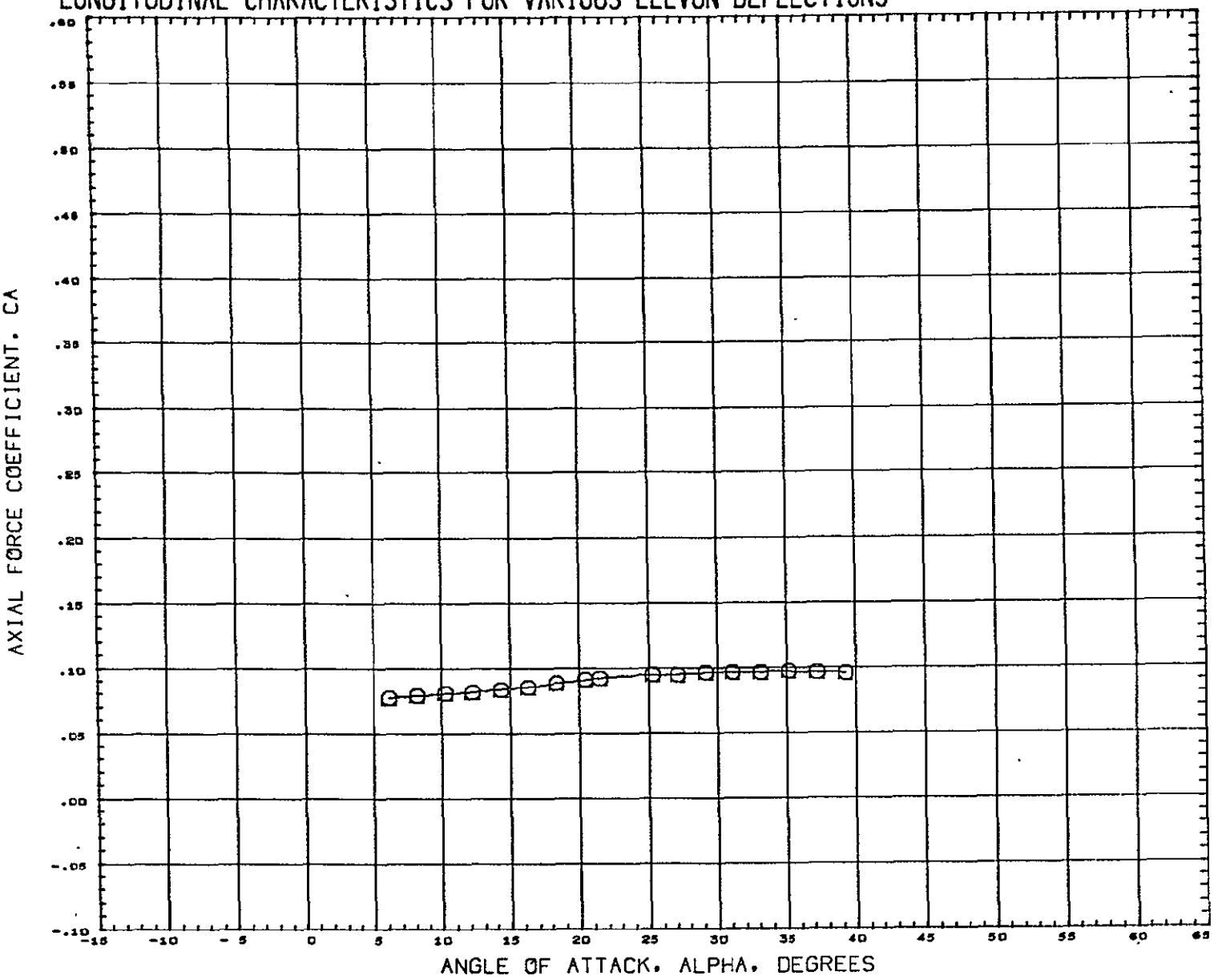


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28008)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	0.000	0.000
(C28002)	◇	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C28003)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C28012)	◸	MSFC481 GD/C(BOOSTER)B19W14C4AV7	10.000	0.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

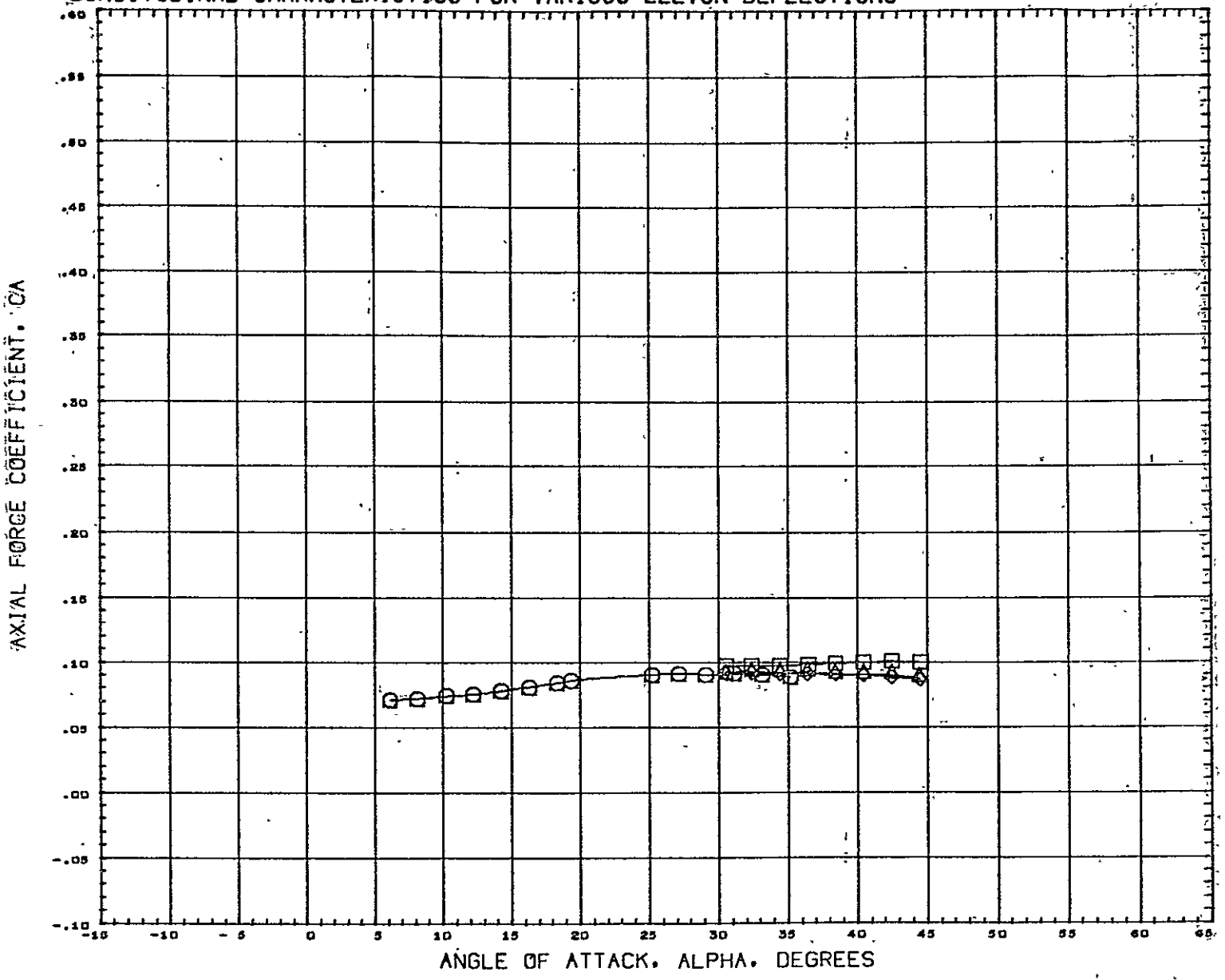


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C2@001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C2@008)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-10.000	10.000	0.000	0.000
(C2@002)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-20.000	0.000	0.000	0.000
(C2@003)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000	0.000	0.000
(C2@012)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

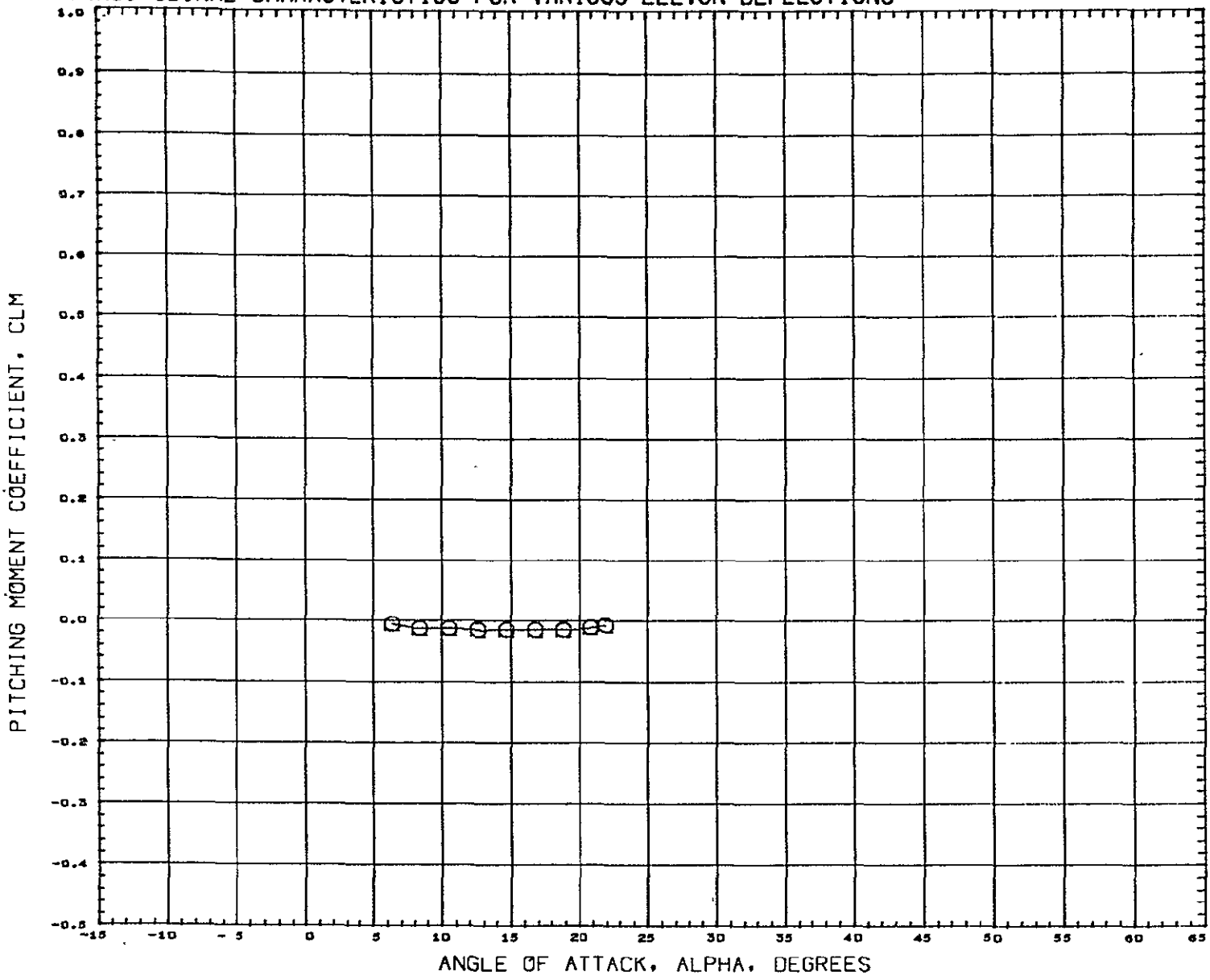


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28008)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	0.000	0.000
(C28002)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C28003)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C28012)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 4.960

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

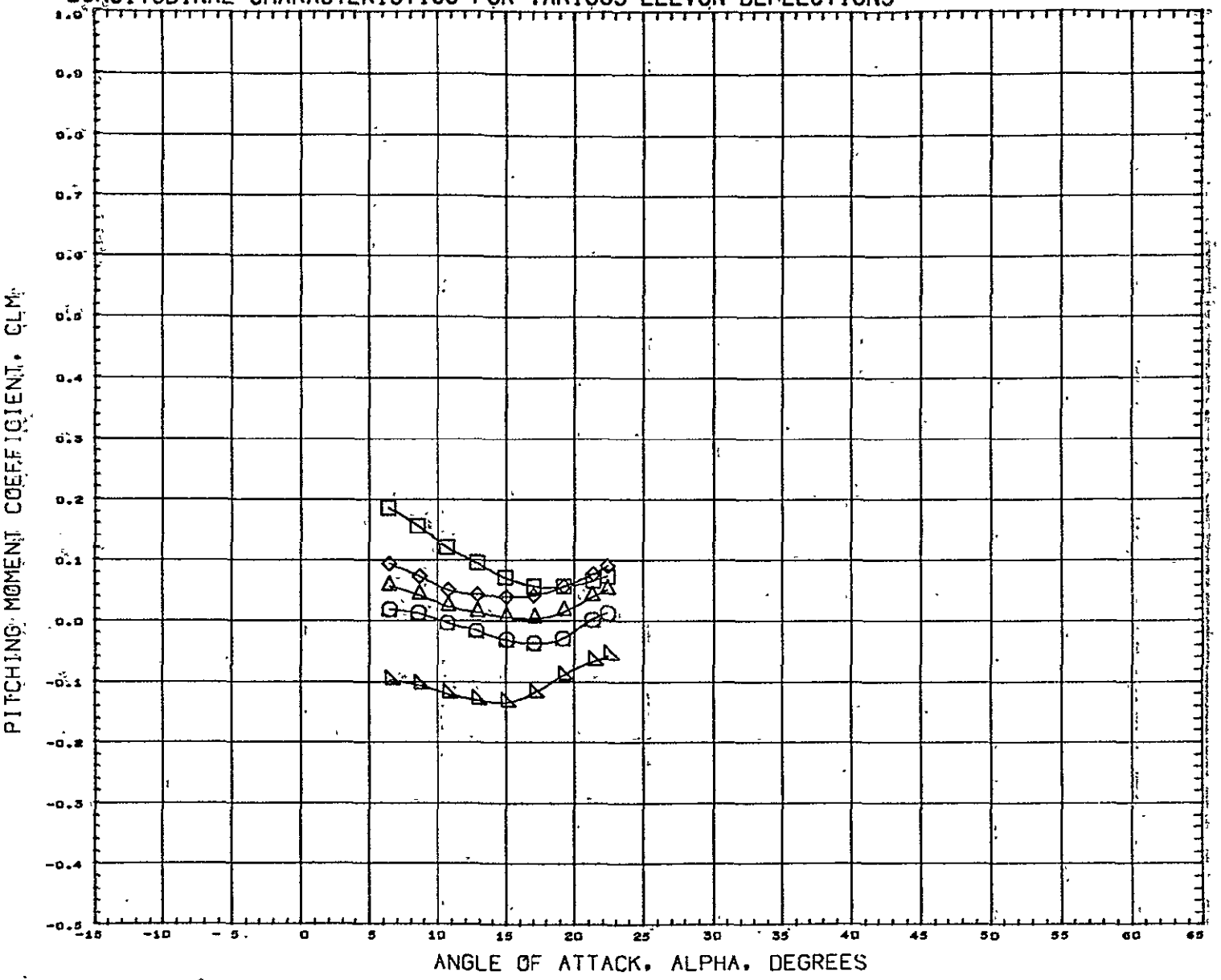


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C26001)		HSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C26006)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-10.000	10.000	0.000	0.000
(C26002)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-20.000	0.000	0.000	0.000
(C26003)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000	0.000	0.000
(C26012)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



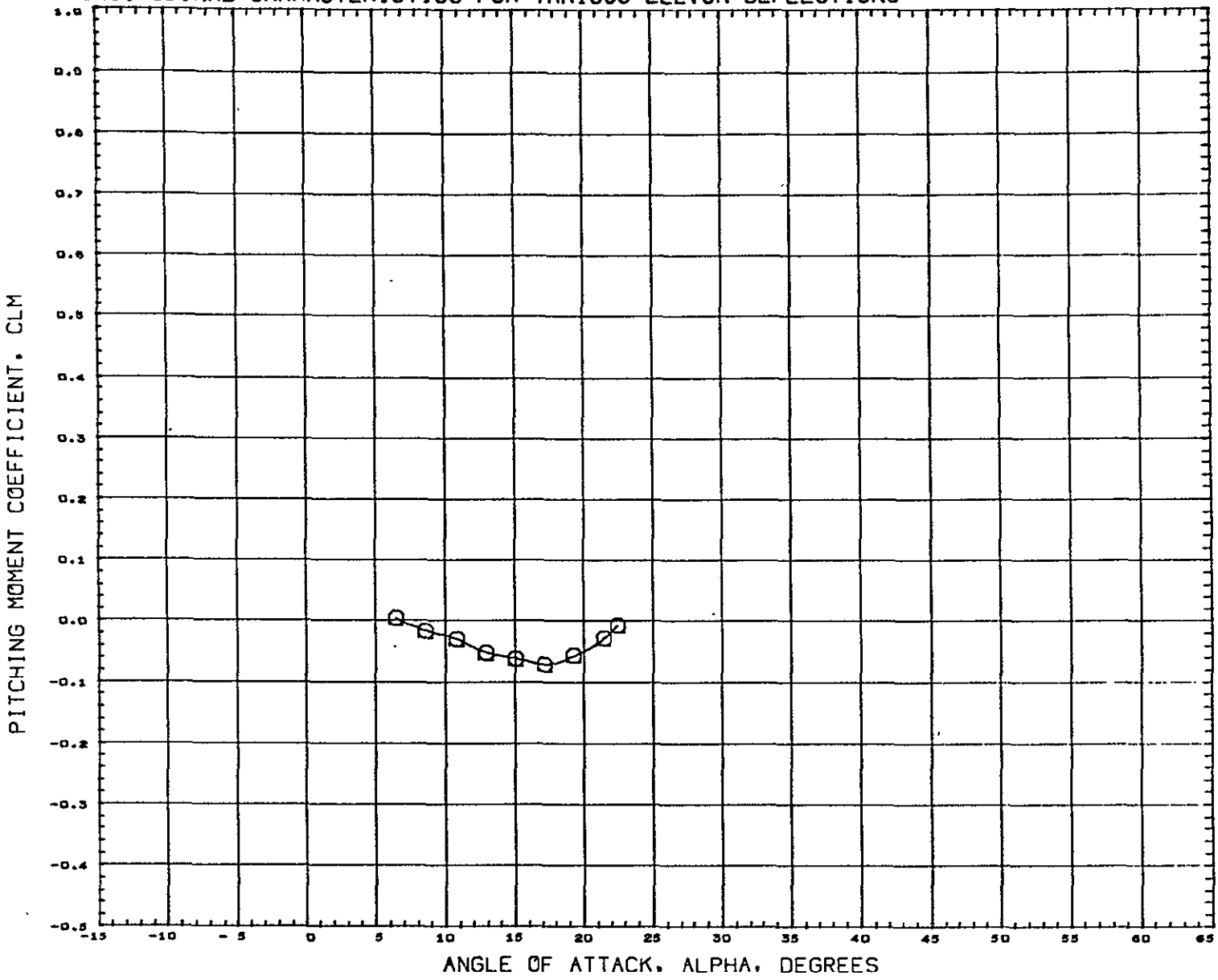
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28008)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28002)	◇	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28003)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28012)	▽	MSFC481 GD/C(BOOSTER)B19W14C4AV7

MACH 0.900

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



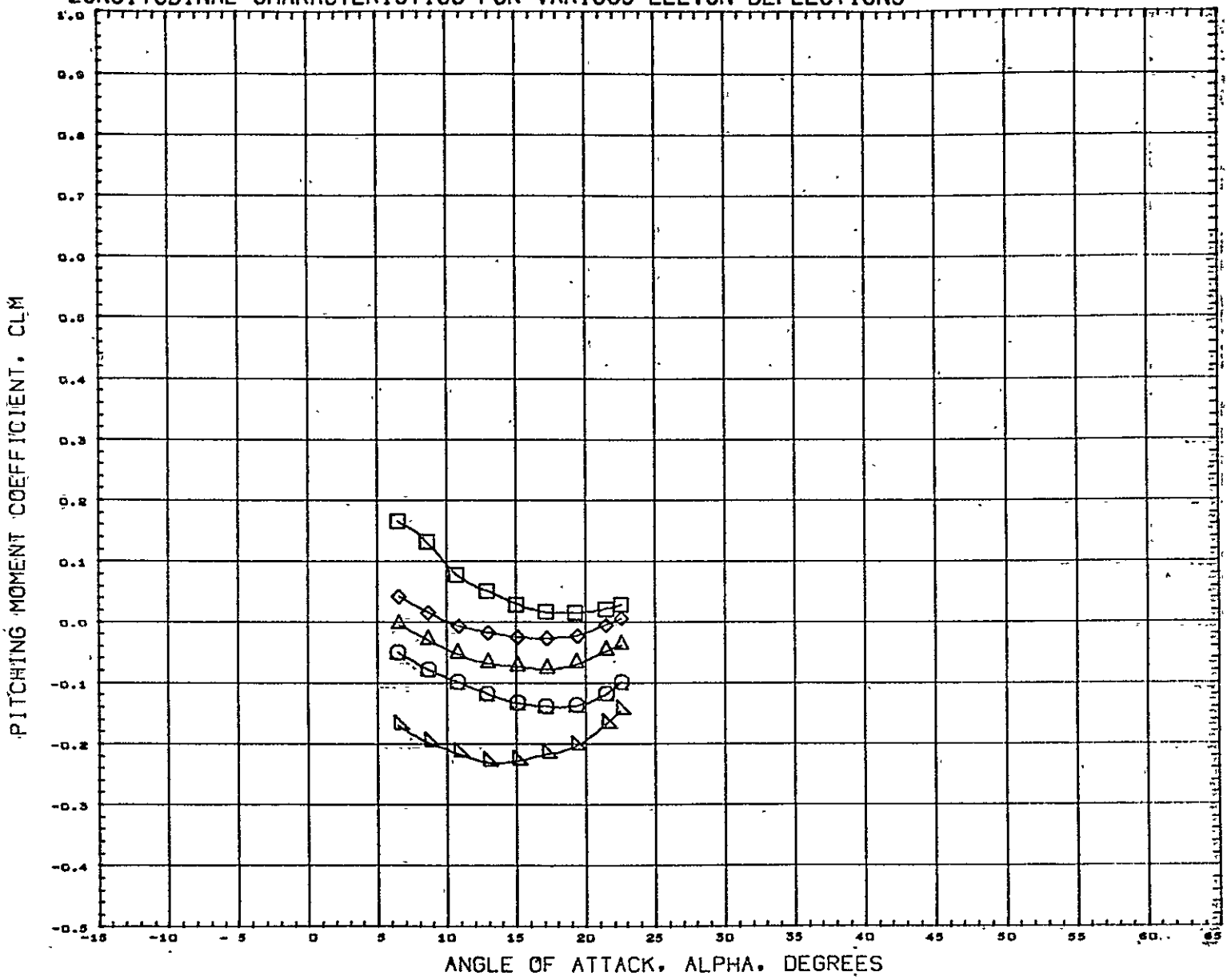
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28008)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28002)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28003)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28012)		DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 0.954

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



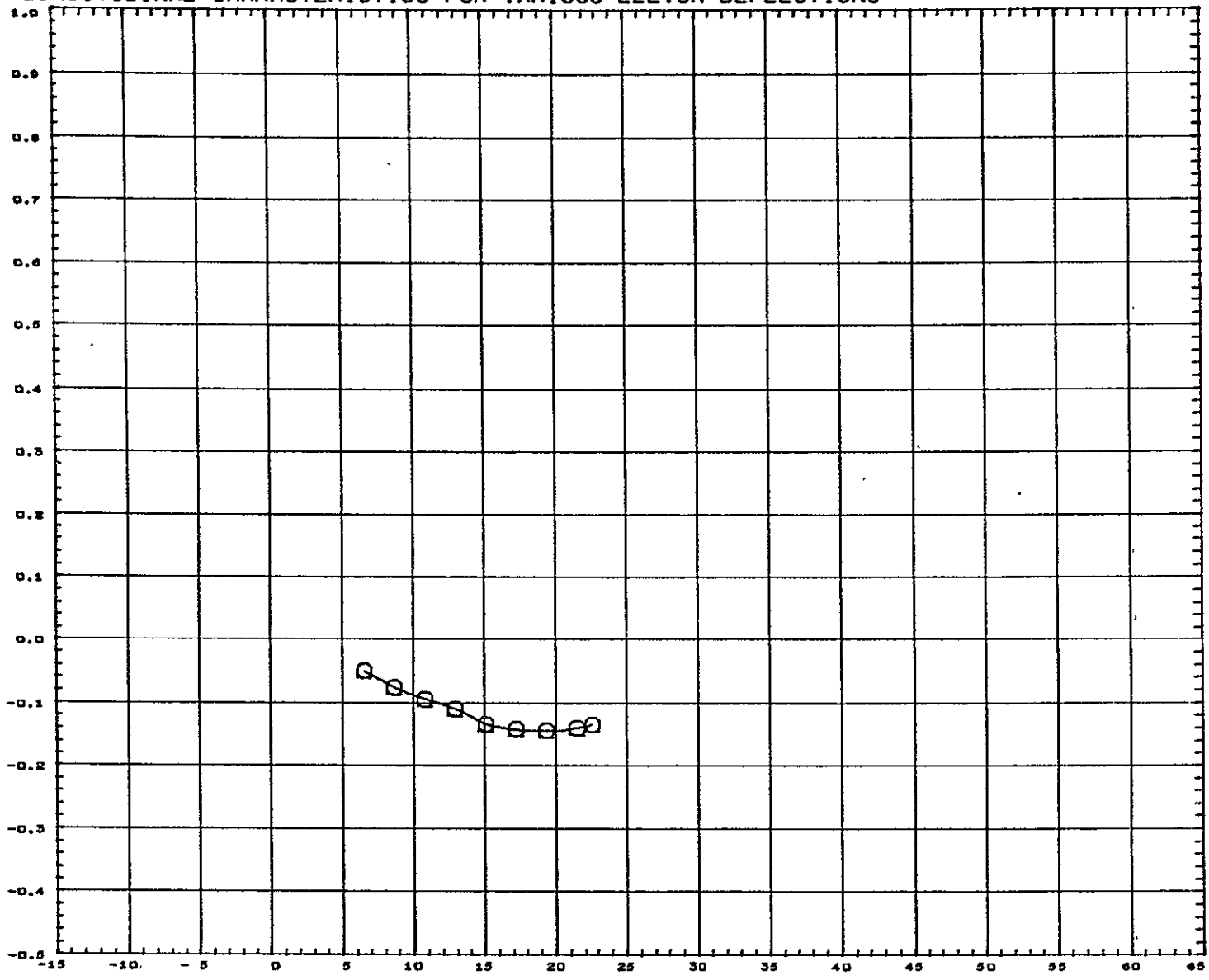
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28008)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28002)	◇	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28003)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28012)	▽	MSFC481 GD/C(BOOSTER)B19W14C4AV7

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

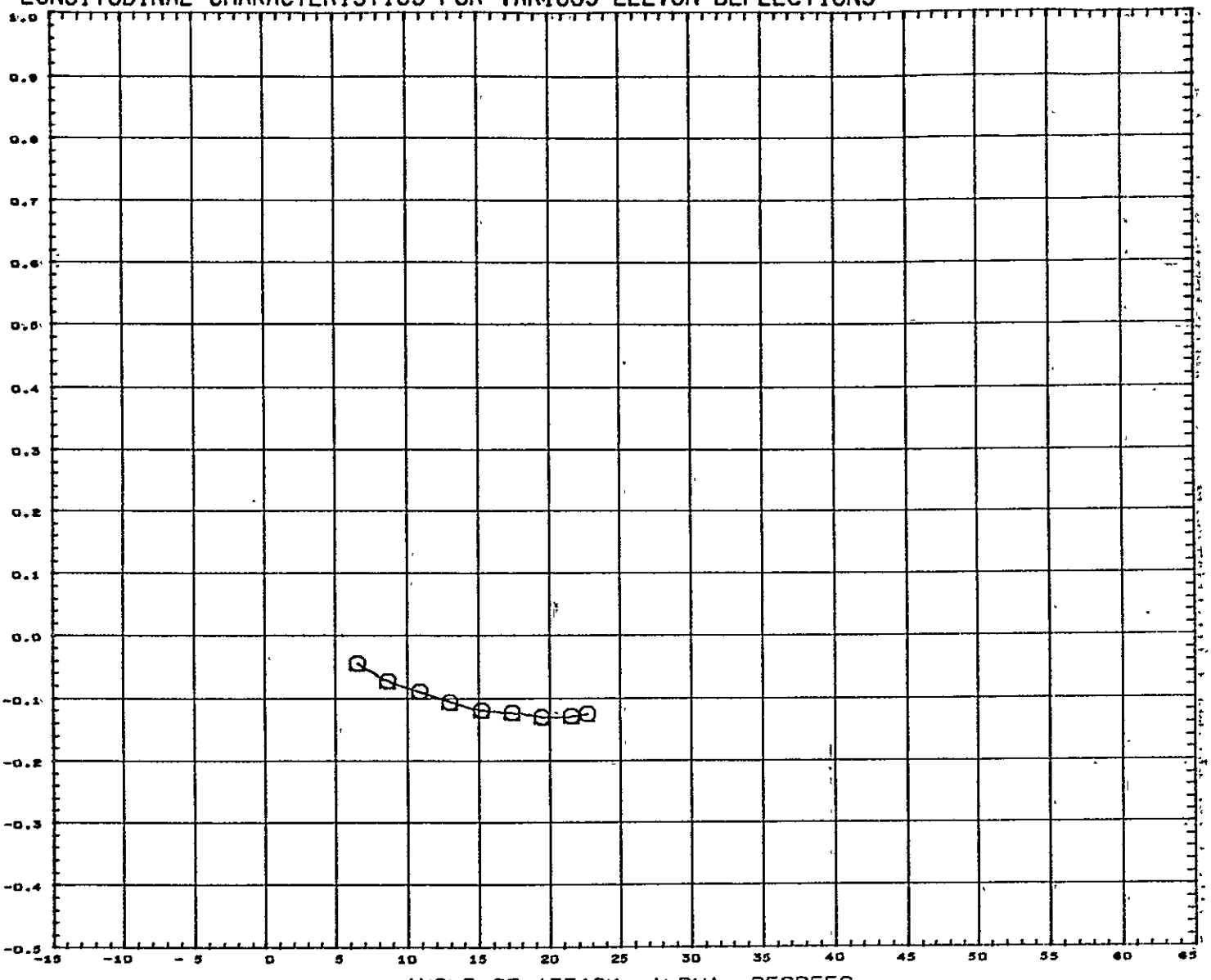


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28008)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	-10.000	10.000	0.000	0.000
(C28002)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-20.000	0.000	0.000	0.000
(C28003)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000	0.000	0.000
(C28012)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 1.051

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

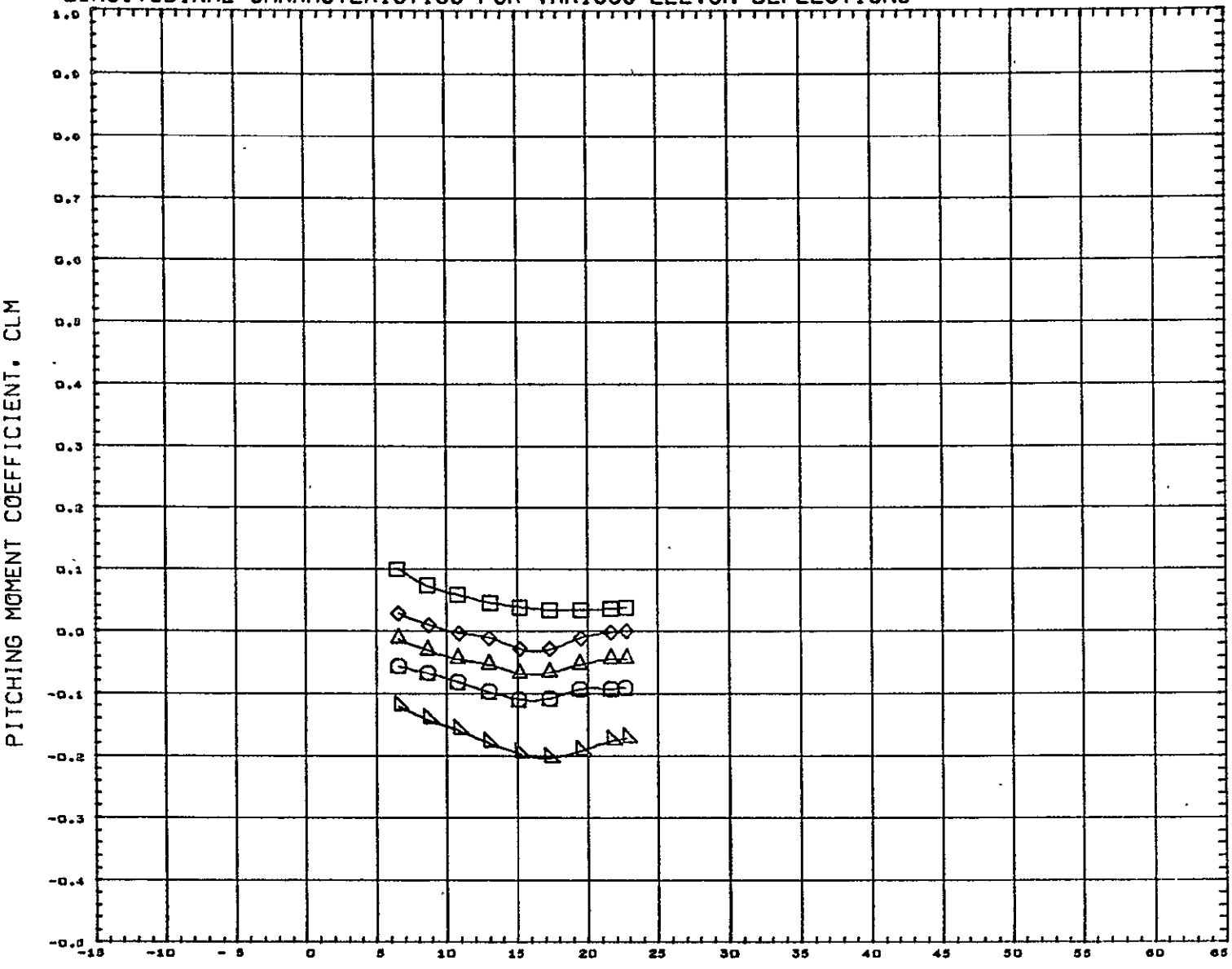


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C26001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C26006)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-10.000	10.000	0.000	0.000
(C26002)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-20.000	0.000	0.000	0.000
(C26003)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000	0.000	0.000
(C26012)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.105

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

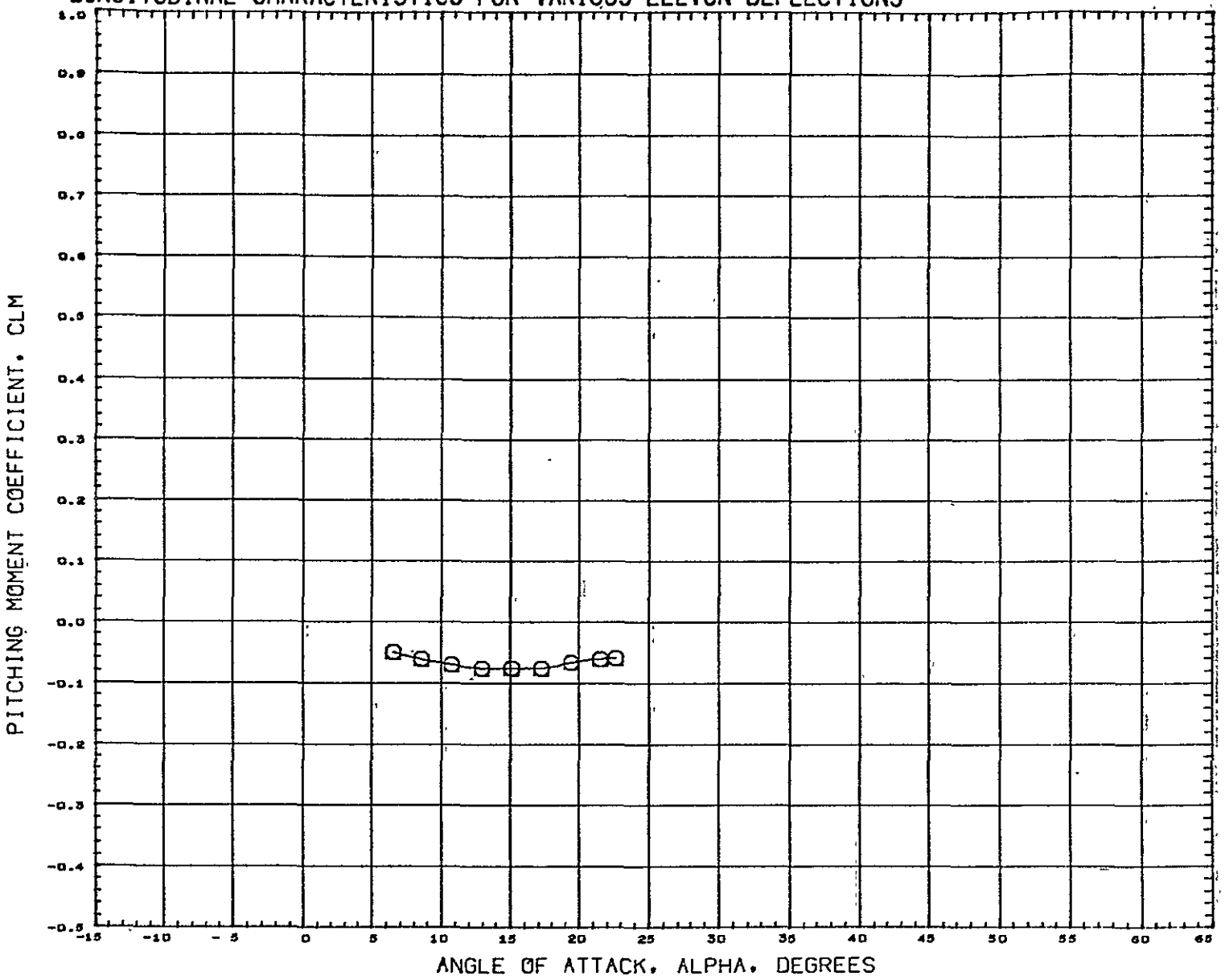


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C26001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C26008)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	0.000	0.000
(C26002)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C26003)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C26012)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	10.000	0.000	0.000	0.000

MACH 1.201

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



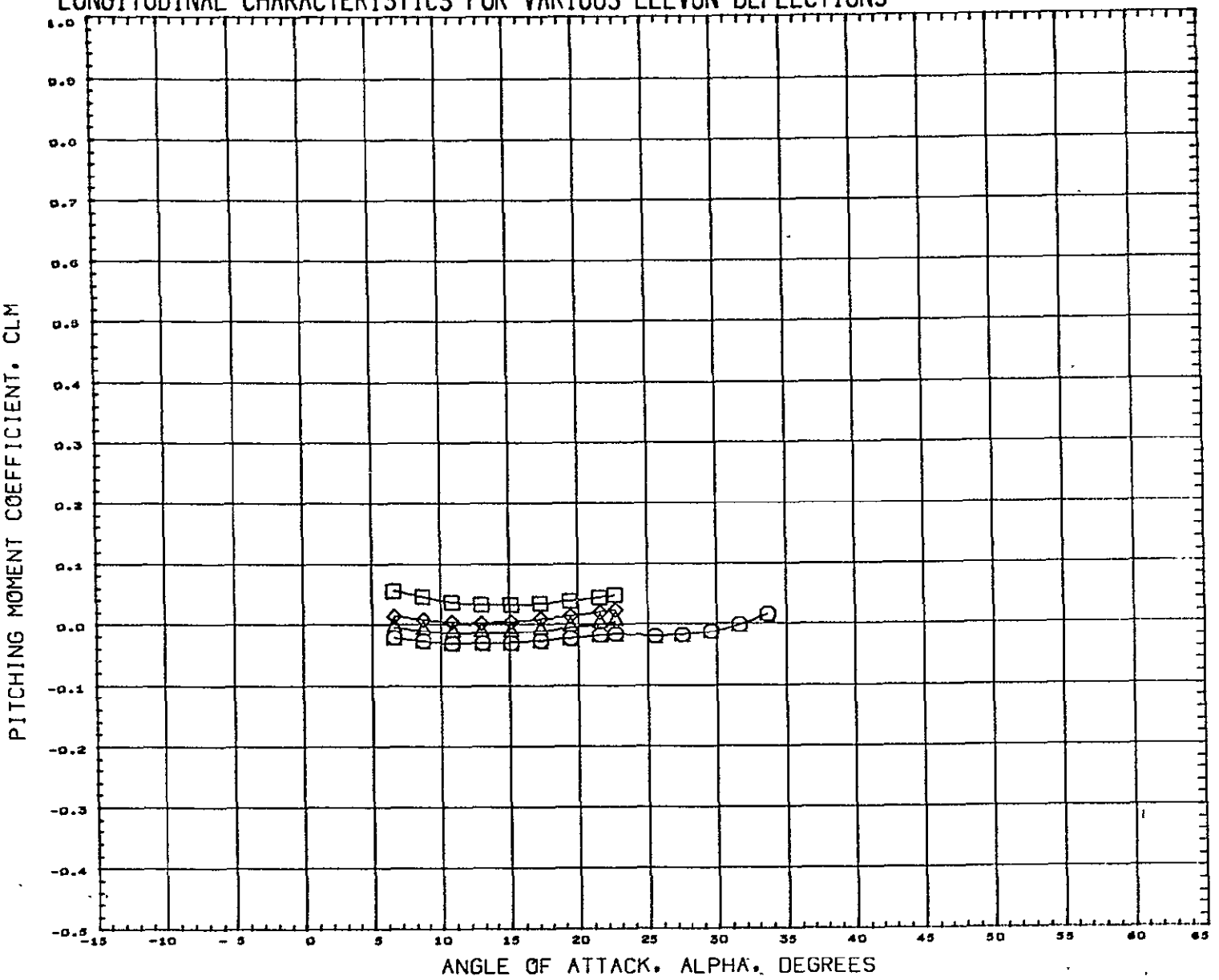
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28008)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28002)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28003)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28012)		DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 1.462

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

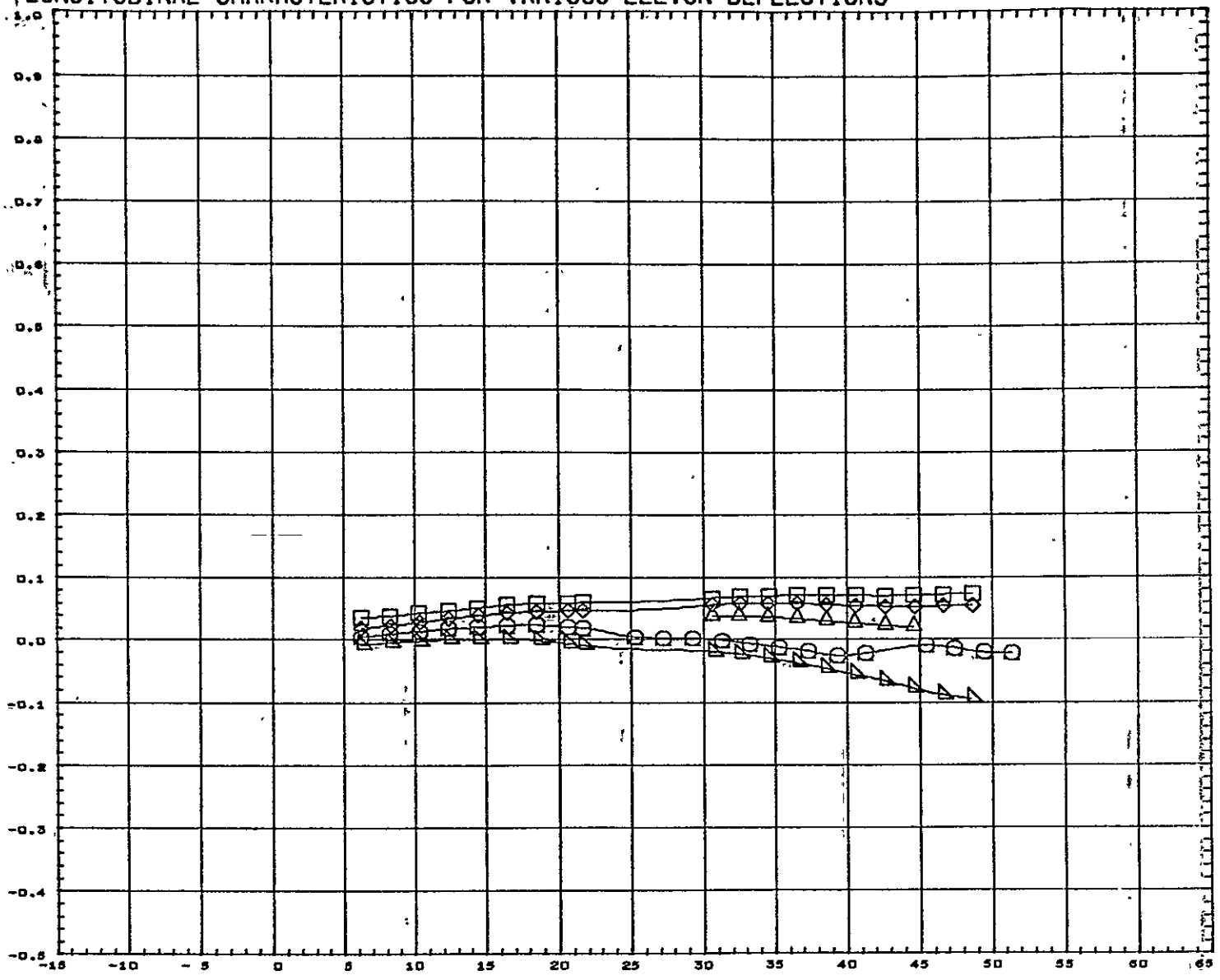


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28006)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	0.000	0.000
(C28002)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C28003)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C28012)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 1.958

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

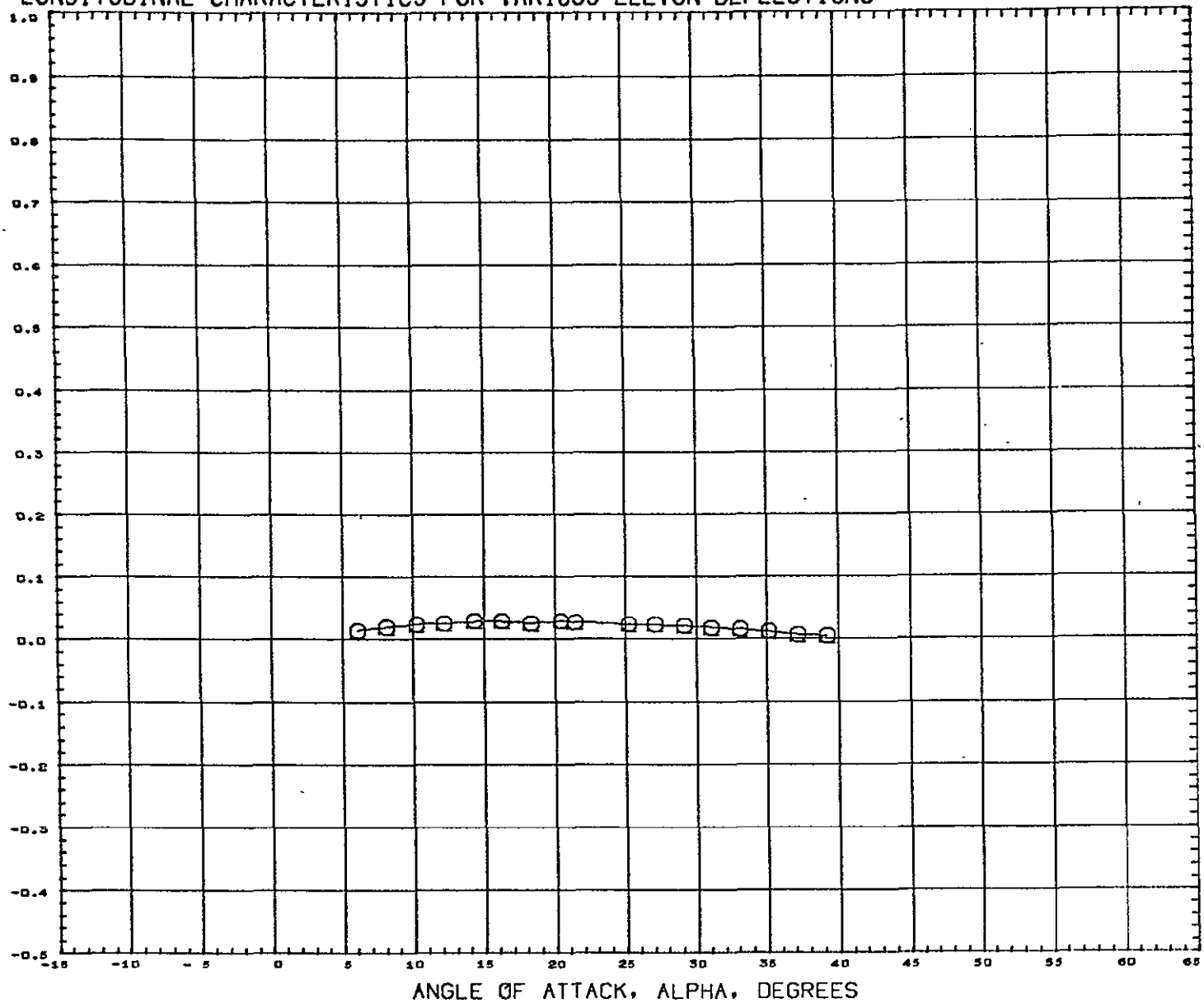


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28006)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	0.000	0.000
(C28002)	◇	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C28003)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C28012)	▽	MSFC481 GD/C(BOOSTER)B19W14C4AV7	10.000	0.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

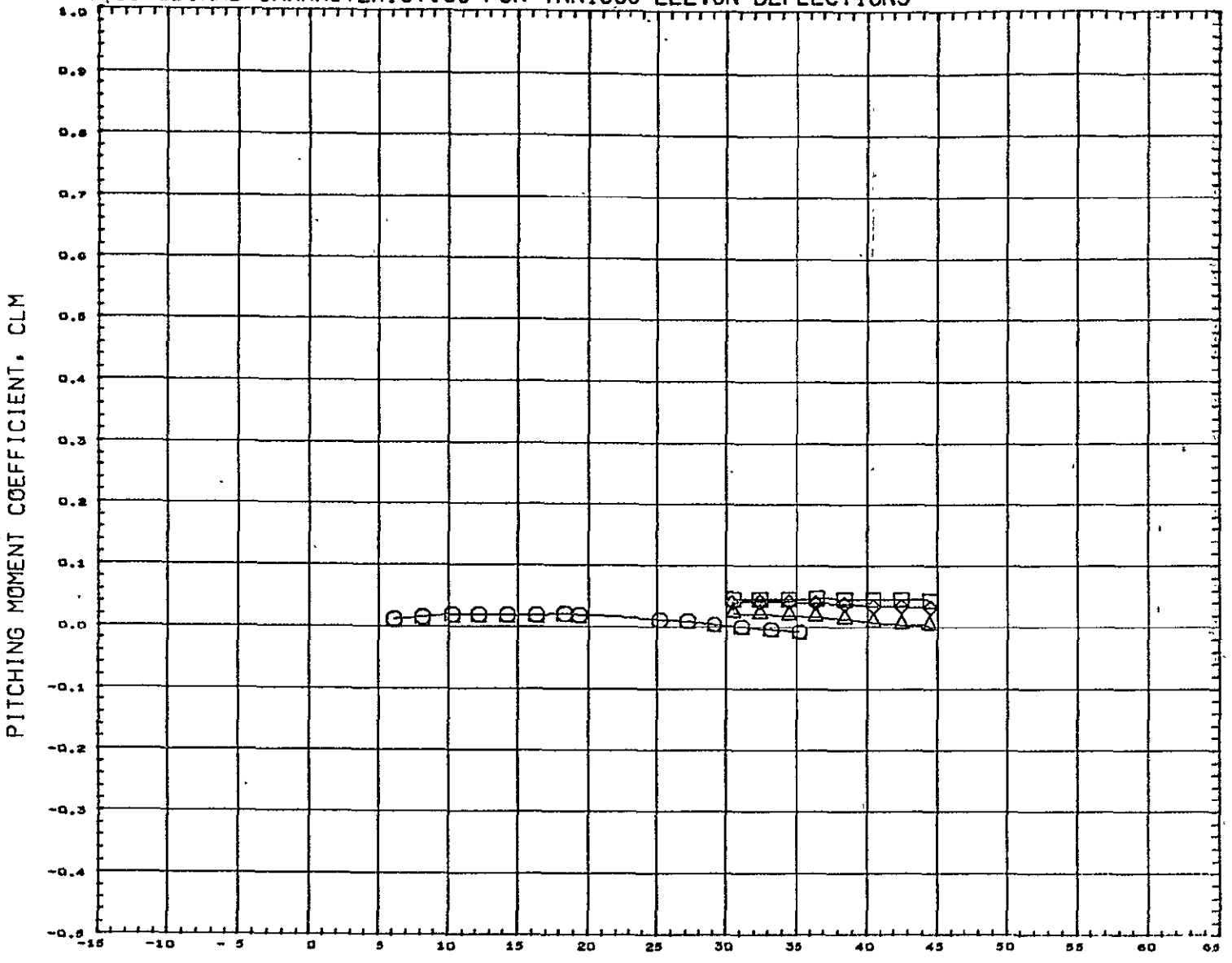


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)		HSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28006)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-10.000	10.000	0.000	0.000
(C28002)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-20.000	0.000	0.000	0.000
(C28003)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000	0.000	0.000
(C28012)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

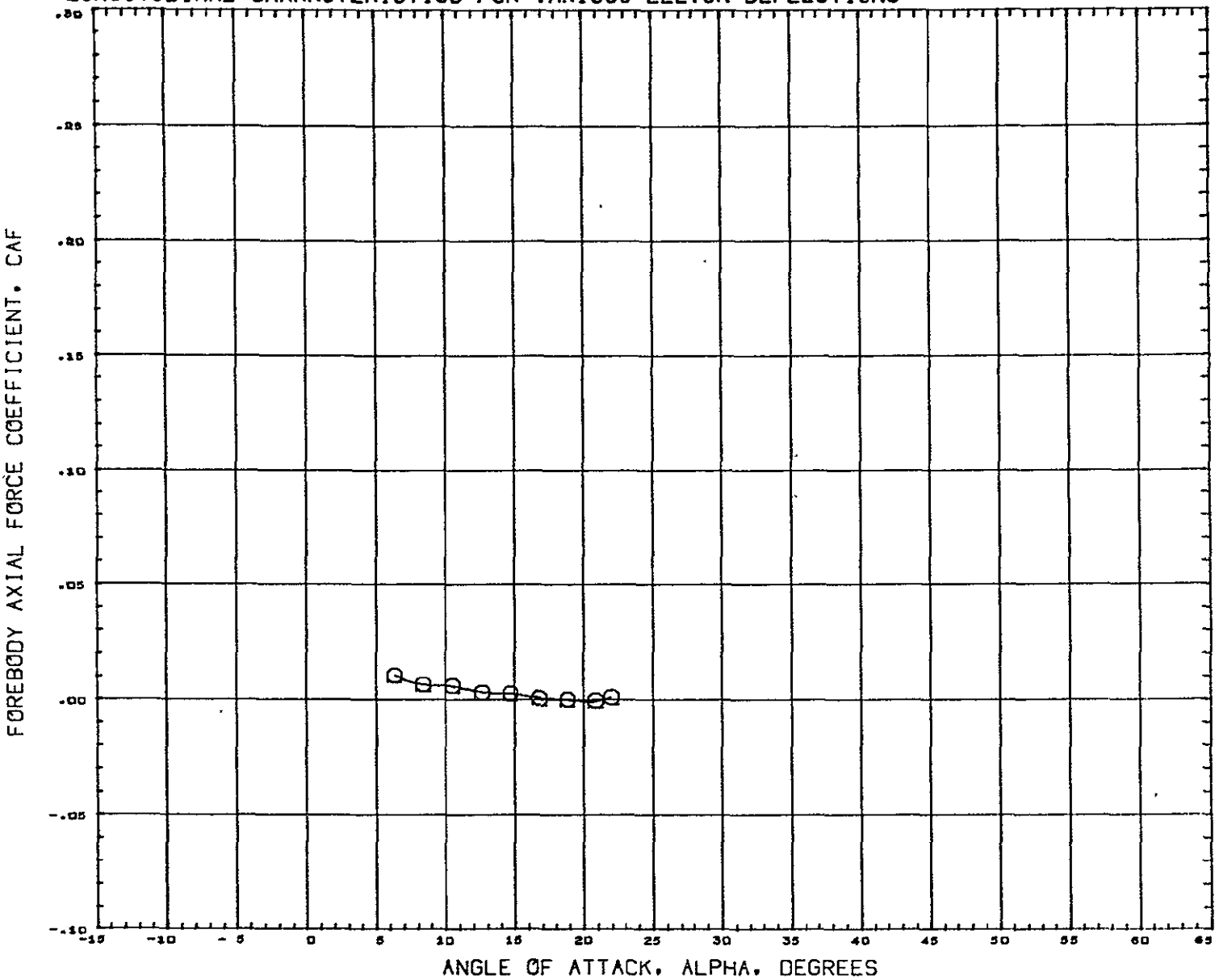


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28008)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	0.000	0.000
(C28002)	◇	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C28003)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C28012)	▷	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 4.960

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

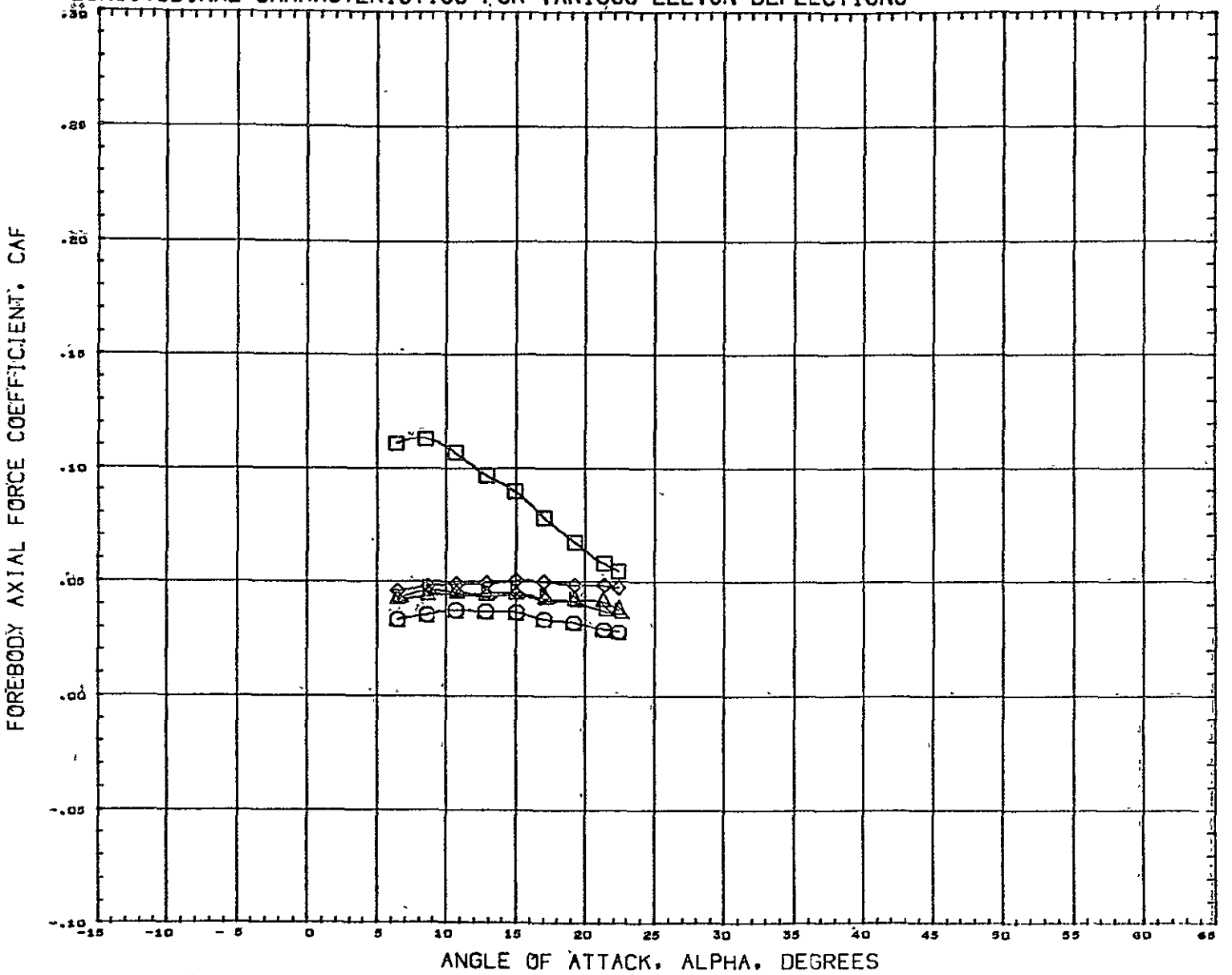


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28006)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-10.000	10.000	0.000	0.000
(C28002)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-20.000	0.000	0.000	0.000
(C28003)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000	0.000	0.000
(C28012)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



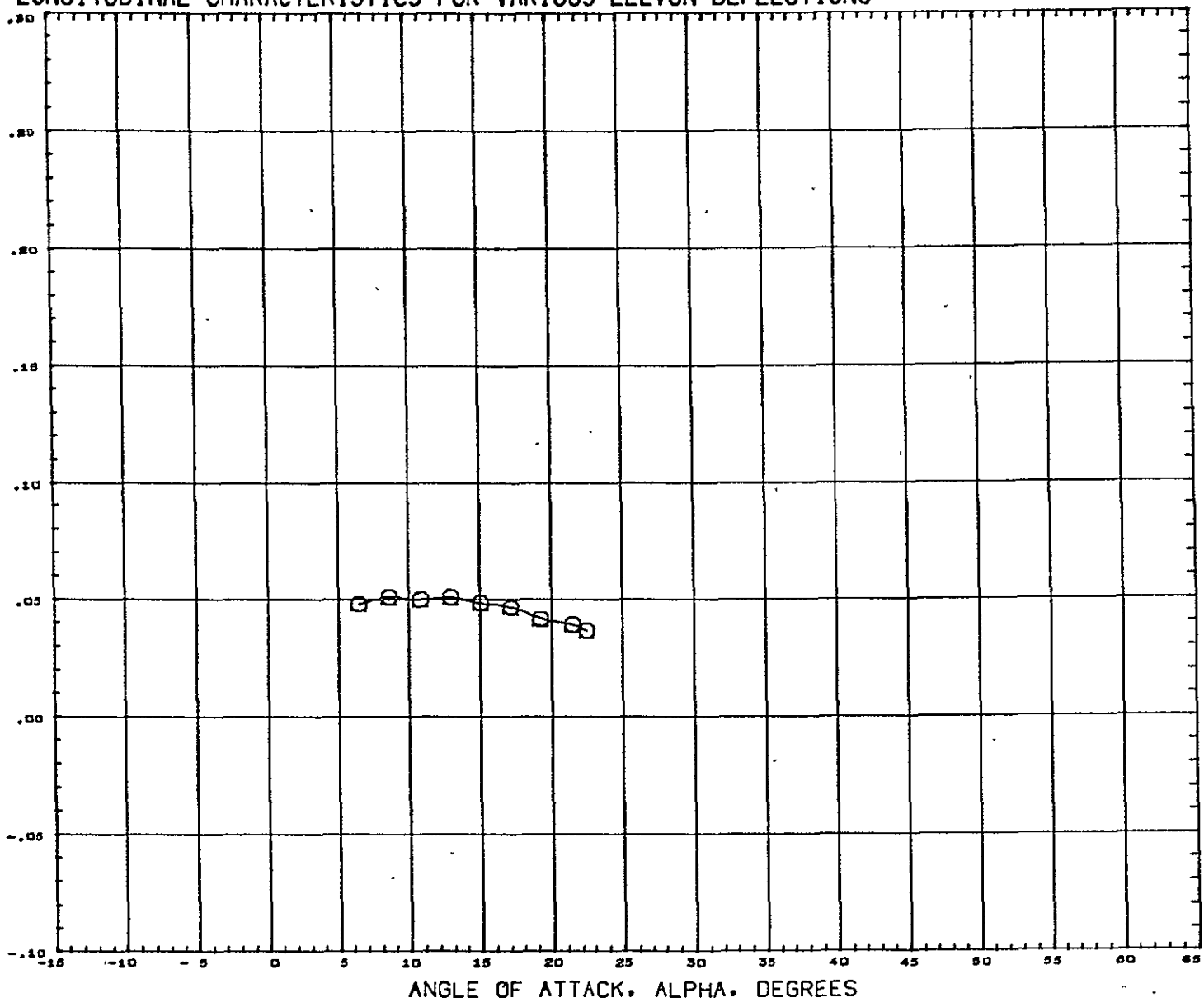
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28008)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28002)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28003)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28012)		MSFC481 GD/C(BOOSTER)B19W14C4AV7

MACH 0.900

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

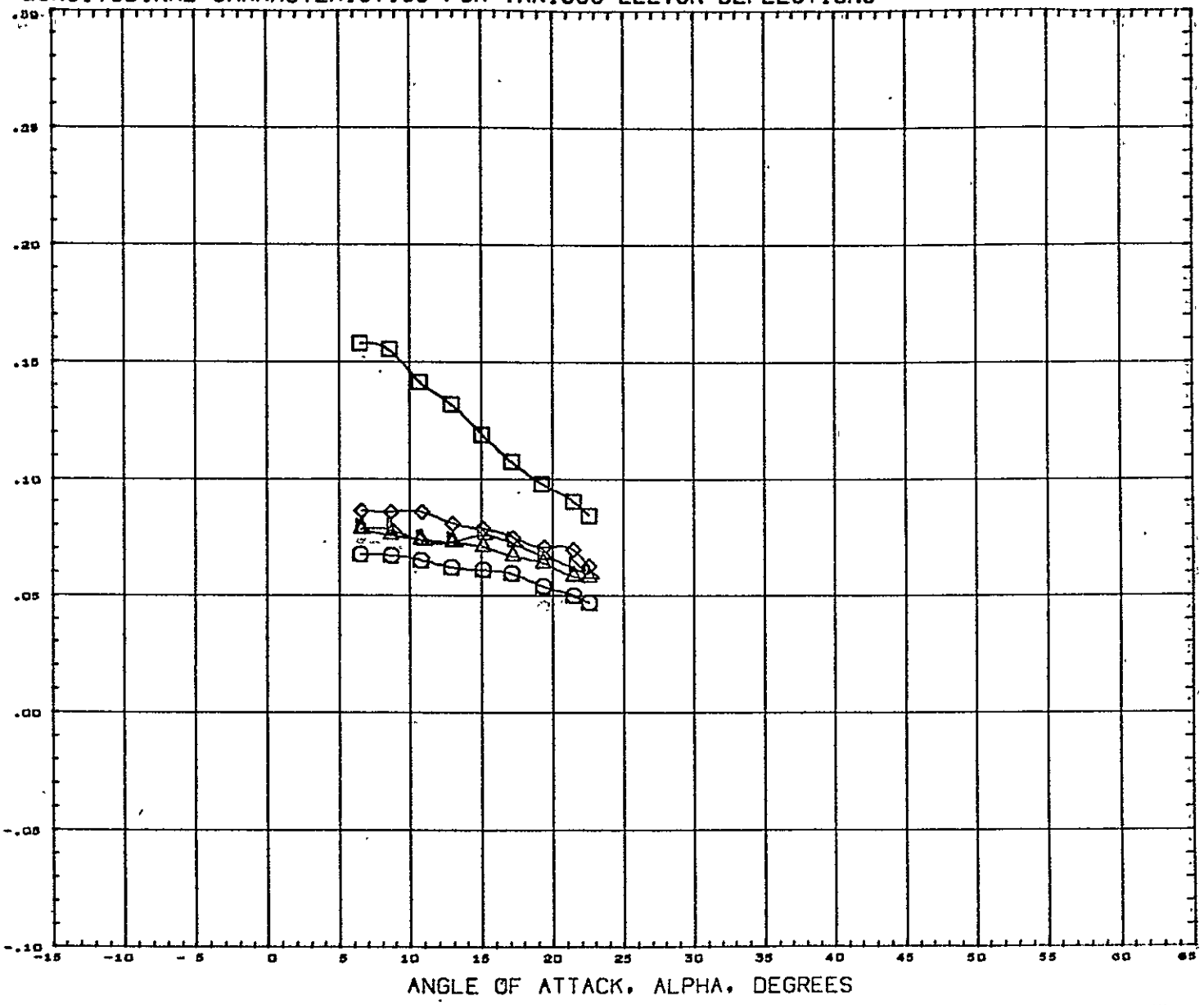


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C26001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C26006)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-10.000	10.000	0.000	0.000
(C26002)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-20.000	0.000	0.000	0.000
(C26003)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000	0.000	0.000
(C26012)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.954

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

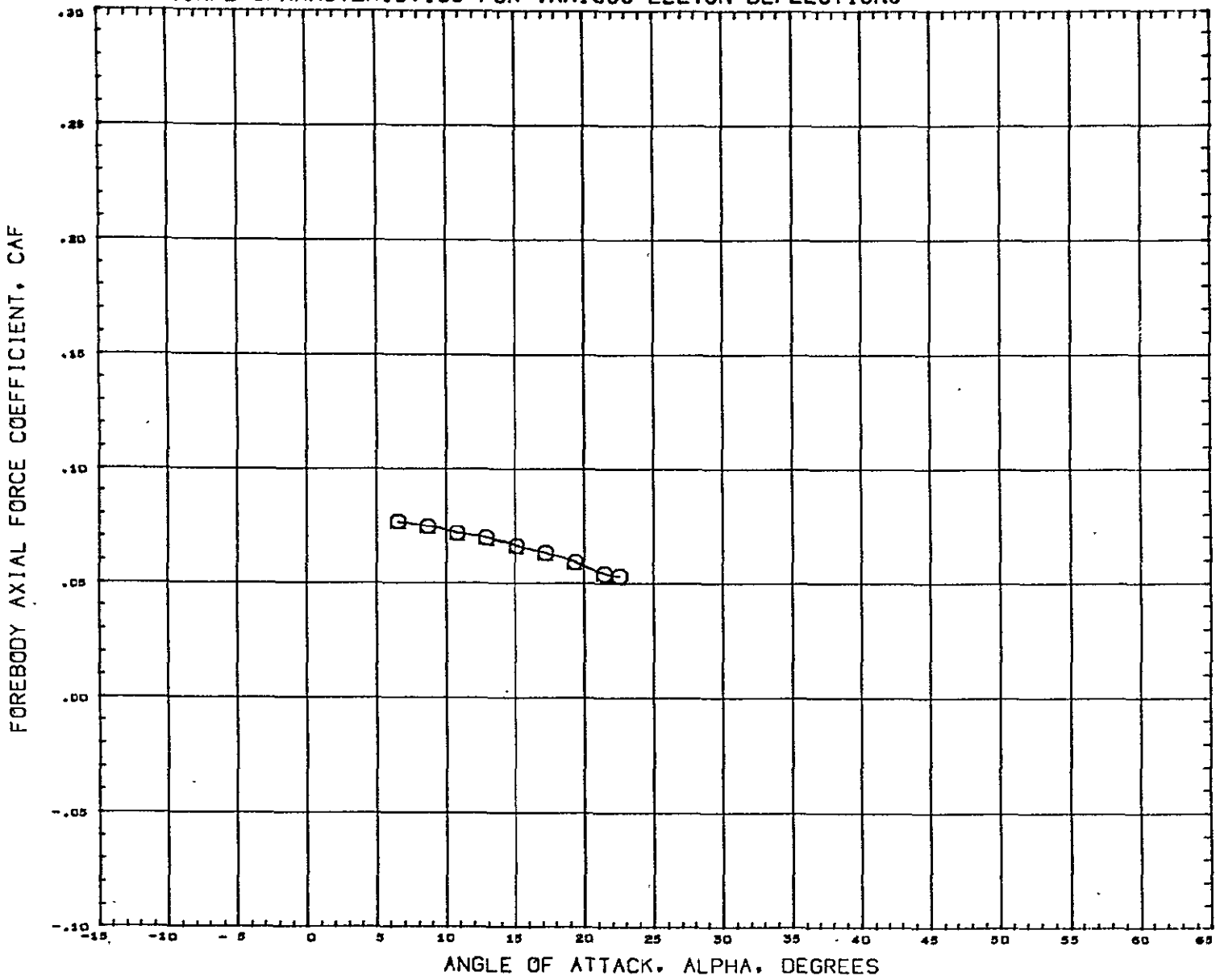


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28008)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	0.000	0.000
(C28002)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C28003)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C28012)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	10.000	0.000	0.000	0.000

MACH 1.007

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0055	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



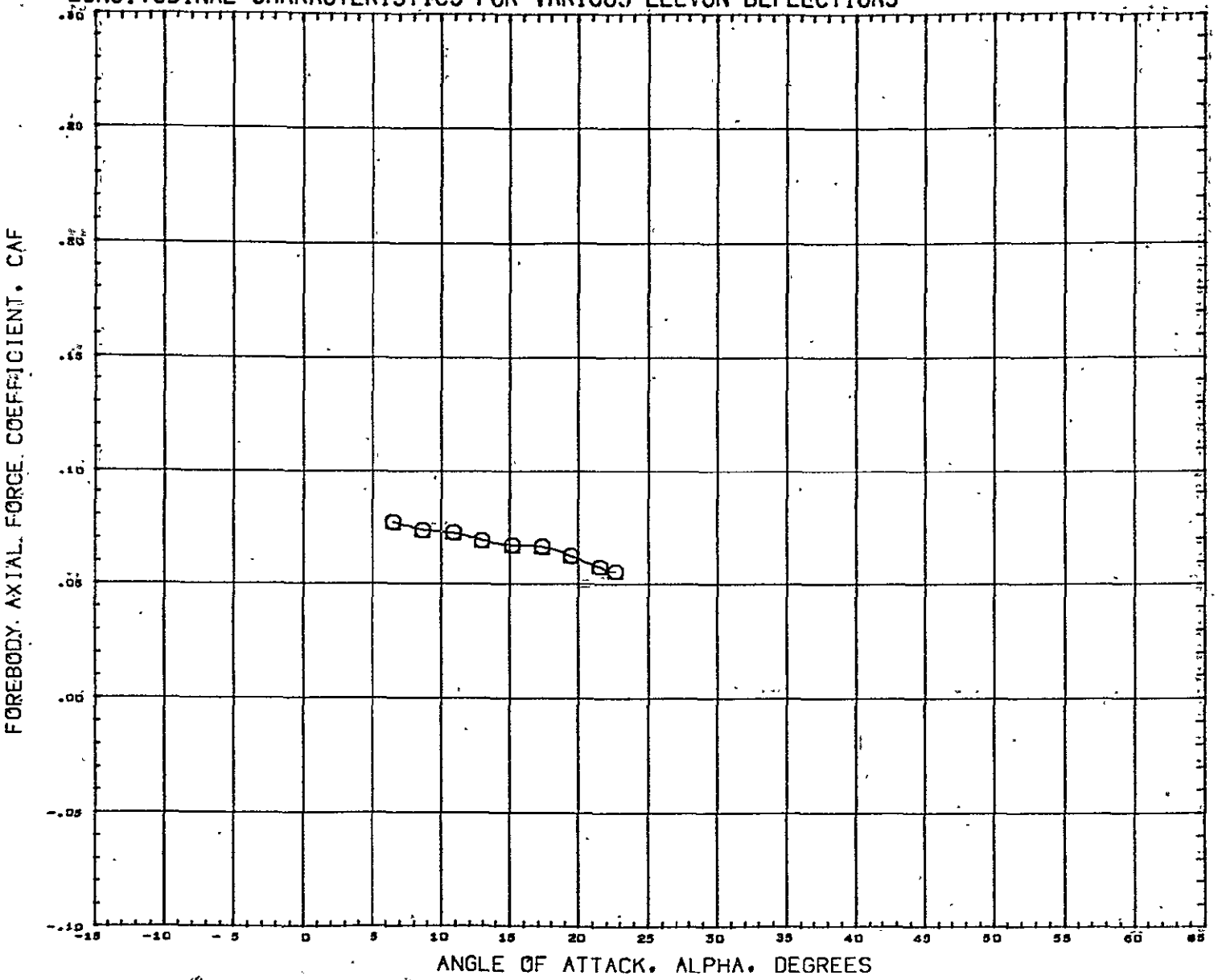
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C26001)	○	(HSFC481 GD/C(BOOSTER)B19W14C4AV7
(C26008)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C26002)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C26003)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C26012)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 1.051

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



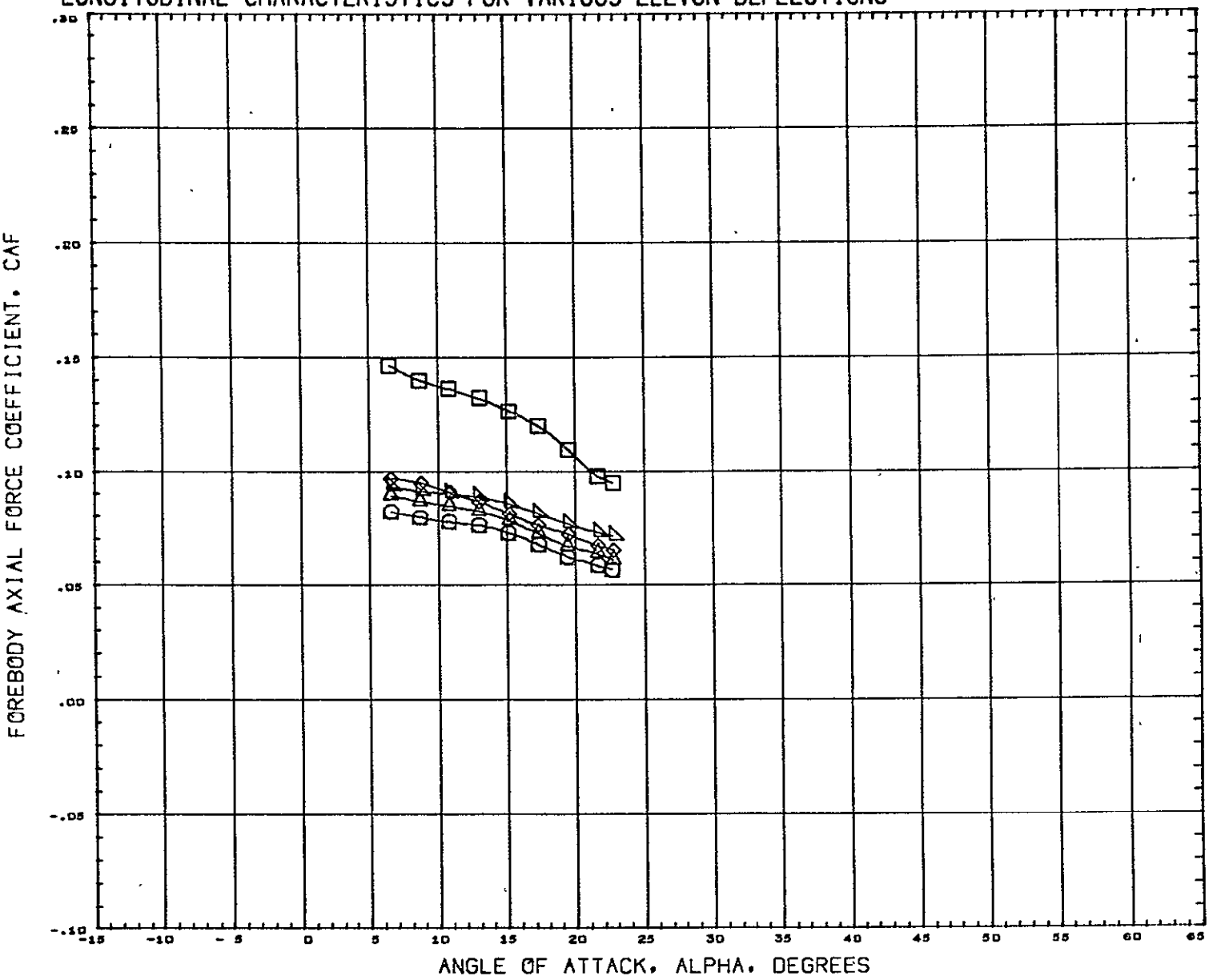
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C26001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C26006)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C26002)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C26003)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C26012)		DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 1.105

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

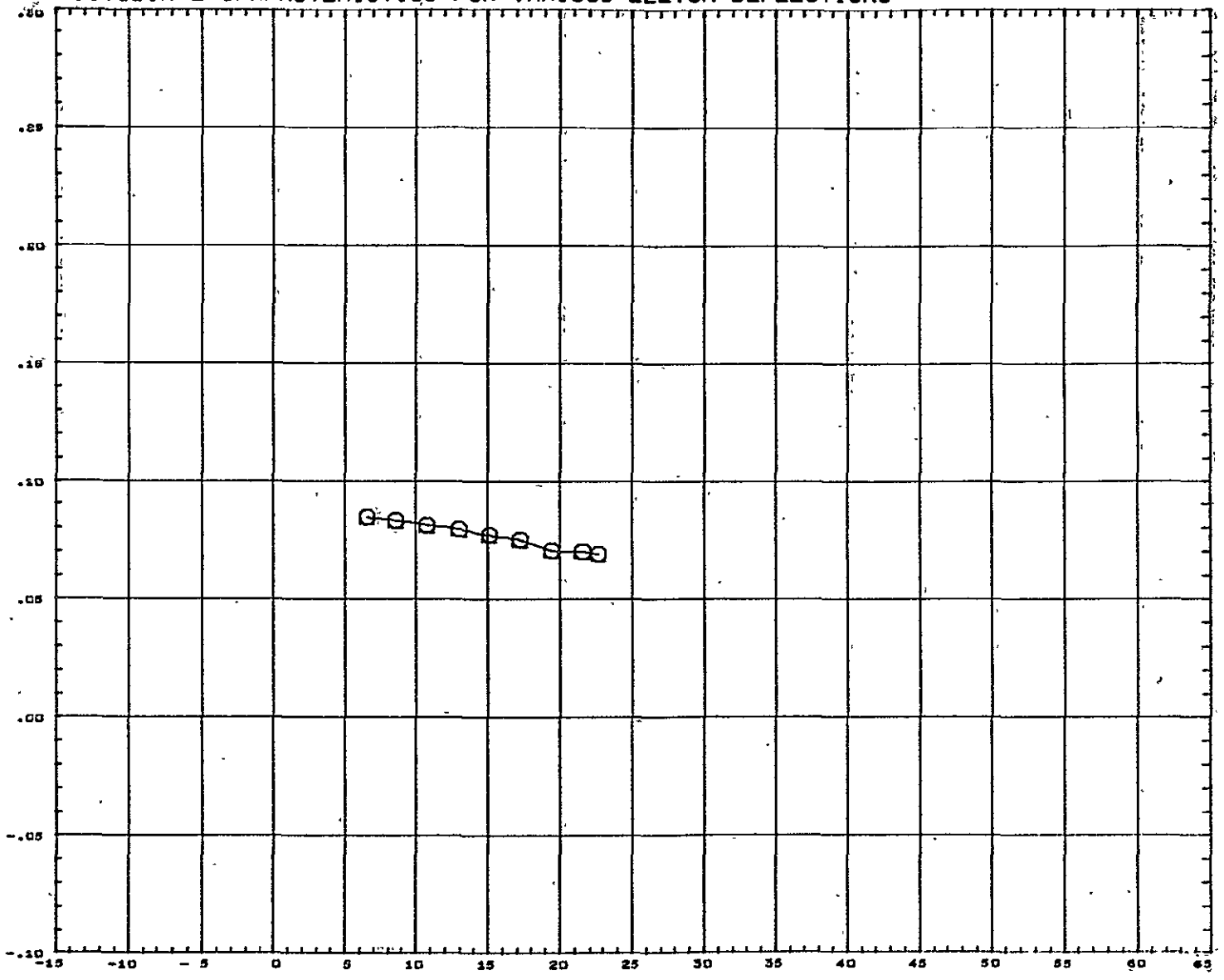


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28006)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	-0.000	0.000
(C28002)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C28003)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C28012)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	10.000	0.000	0.000	0.000

MACH 1.201

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

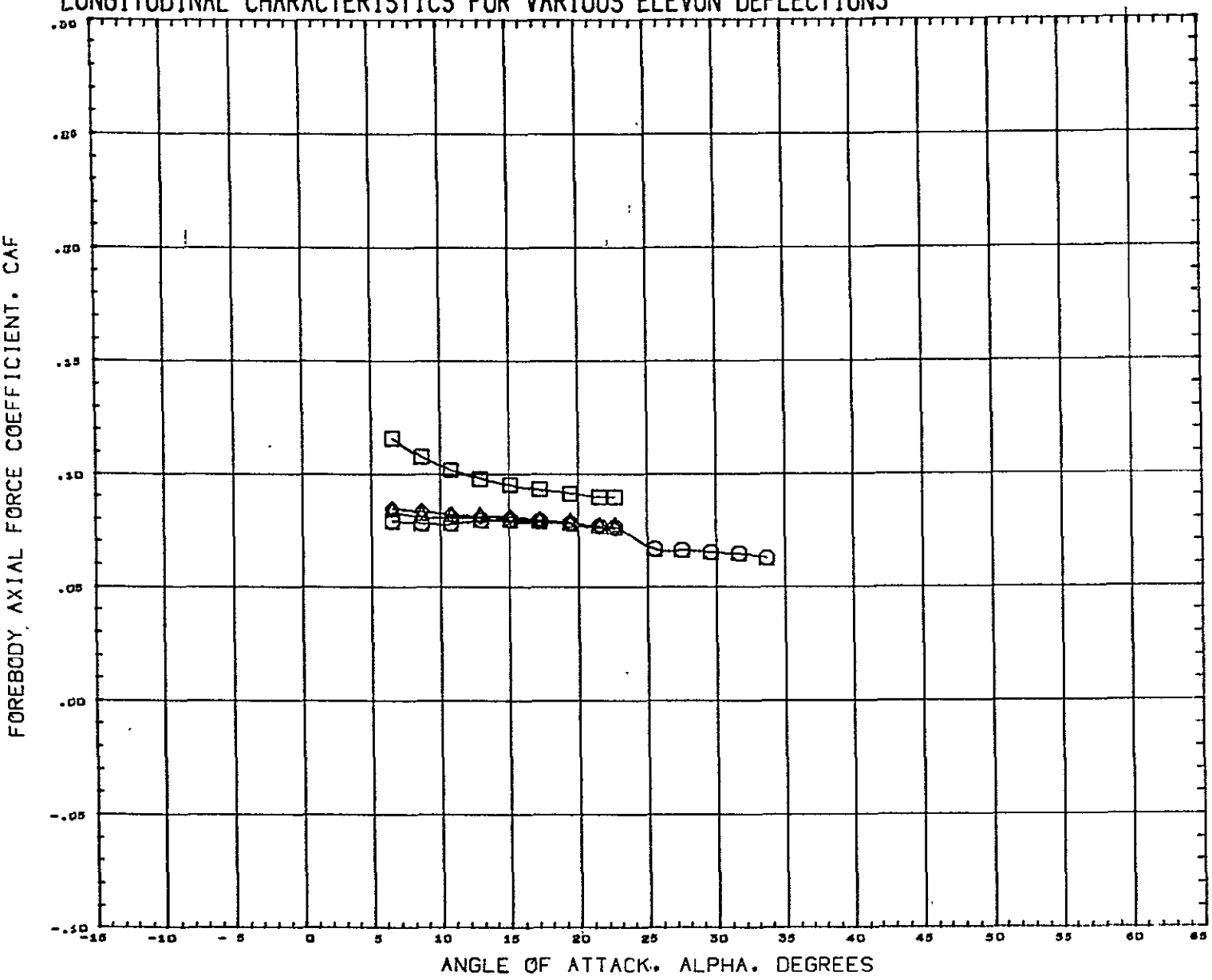


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28006)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	-10.000	10.000	0.000	0.000
(C28002)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-20.000	0.000	0.000	0.000
(C28003)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000	0.000	0.000
(C28012)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.462

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

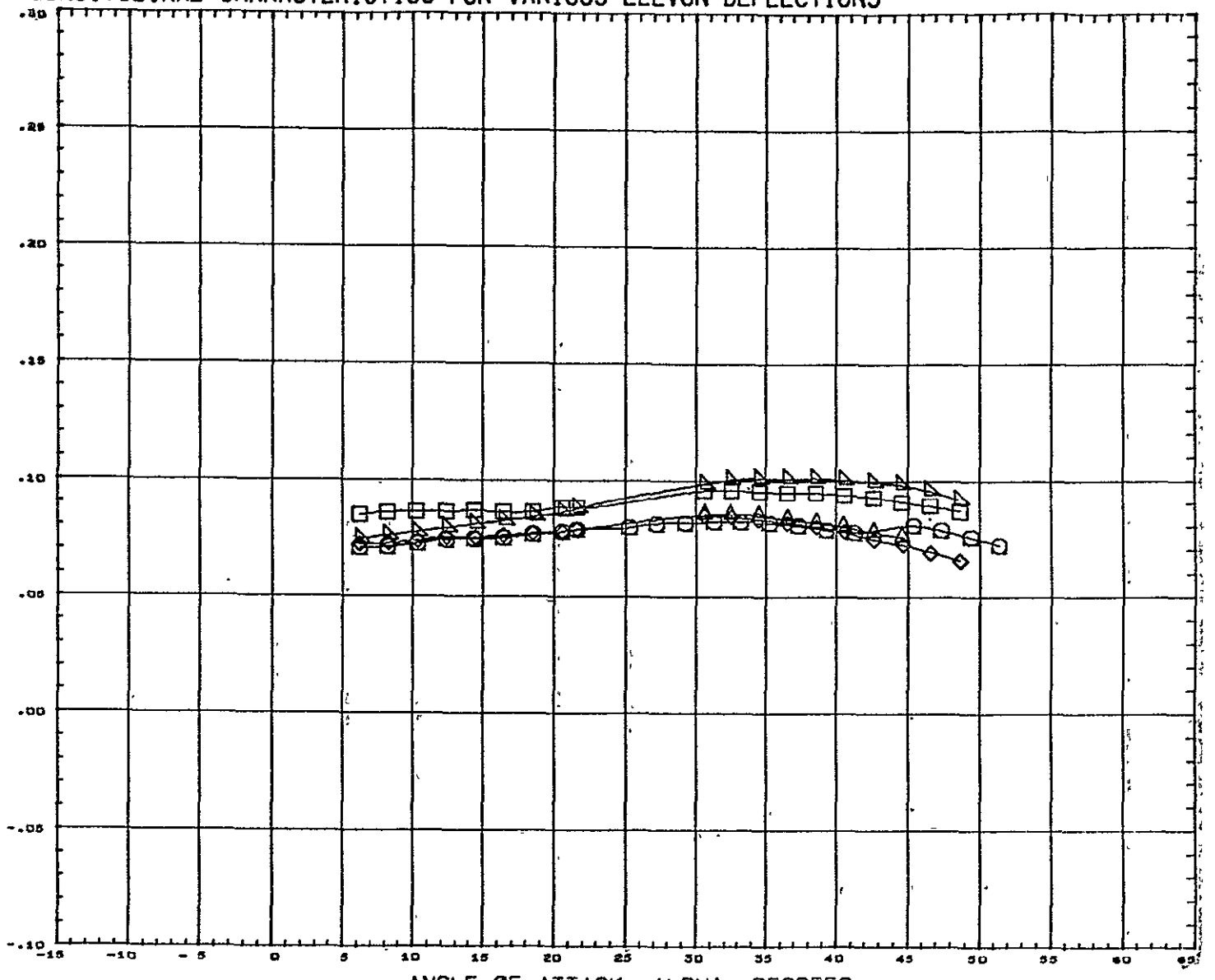


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28008)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	0.000	0.000
(C28002)	◇	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C28003)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C28012)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 1.958

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



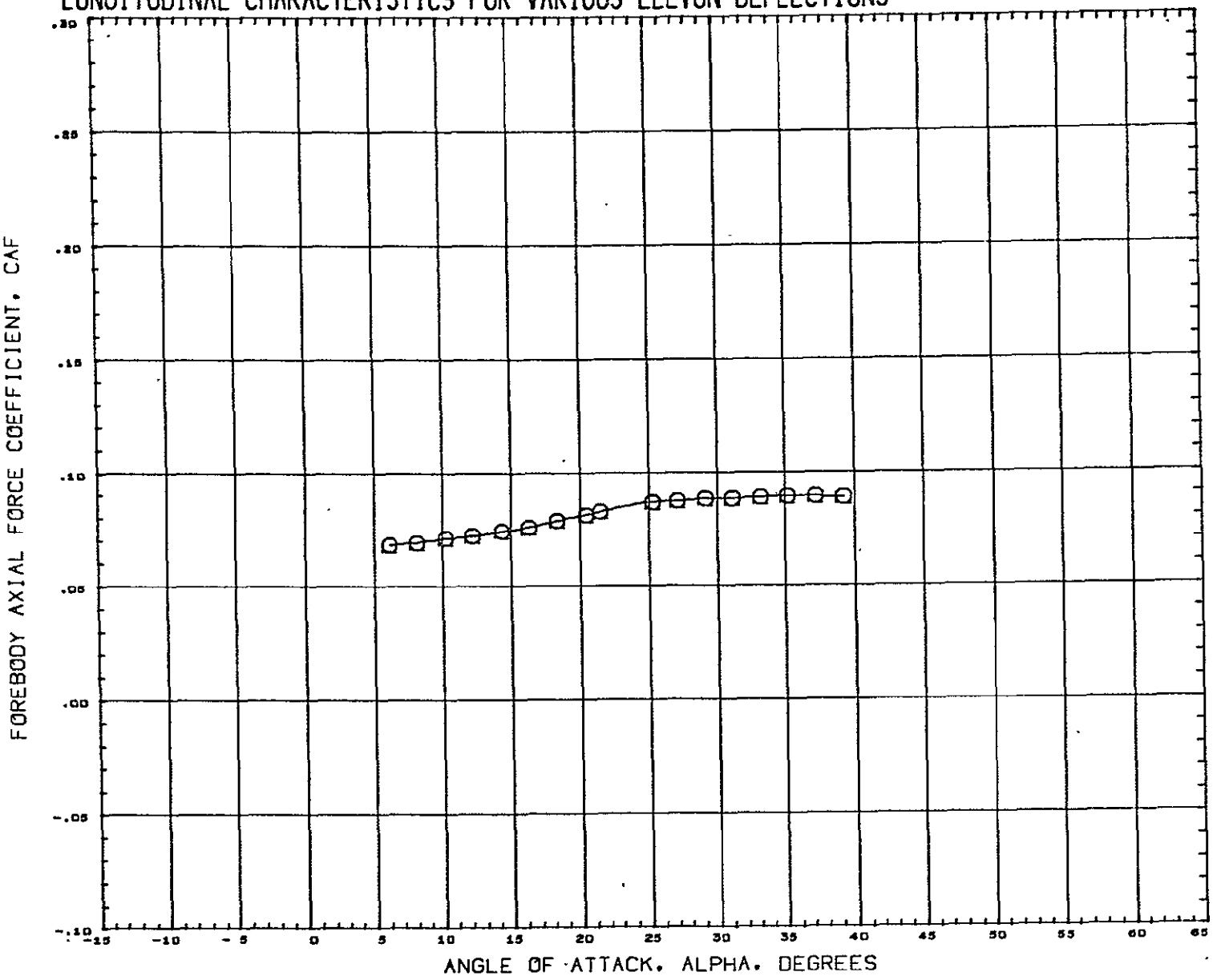
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CZ8001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(CZ8008)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(CZ8002)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(CZ8003)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(CZ8012)		MSFC481 GD/C(BOOSTER)B19W14C4AV7

MACH 2.990

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



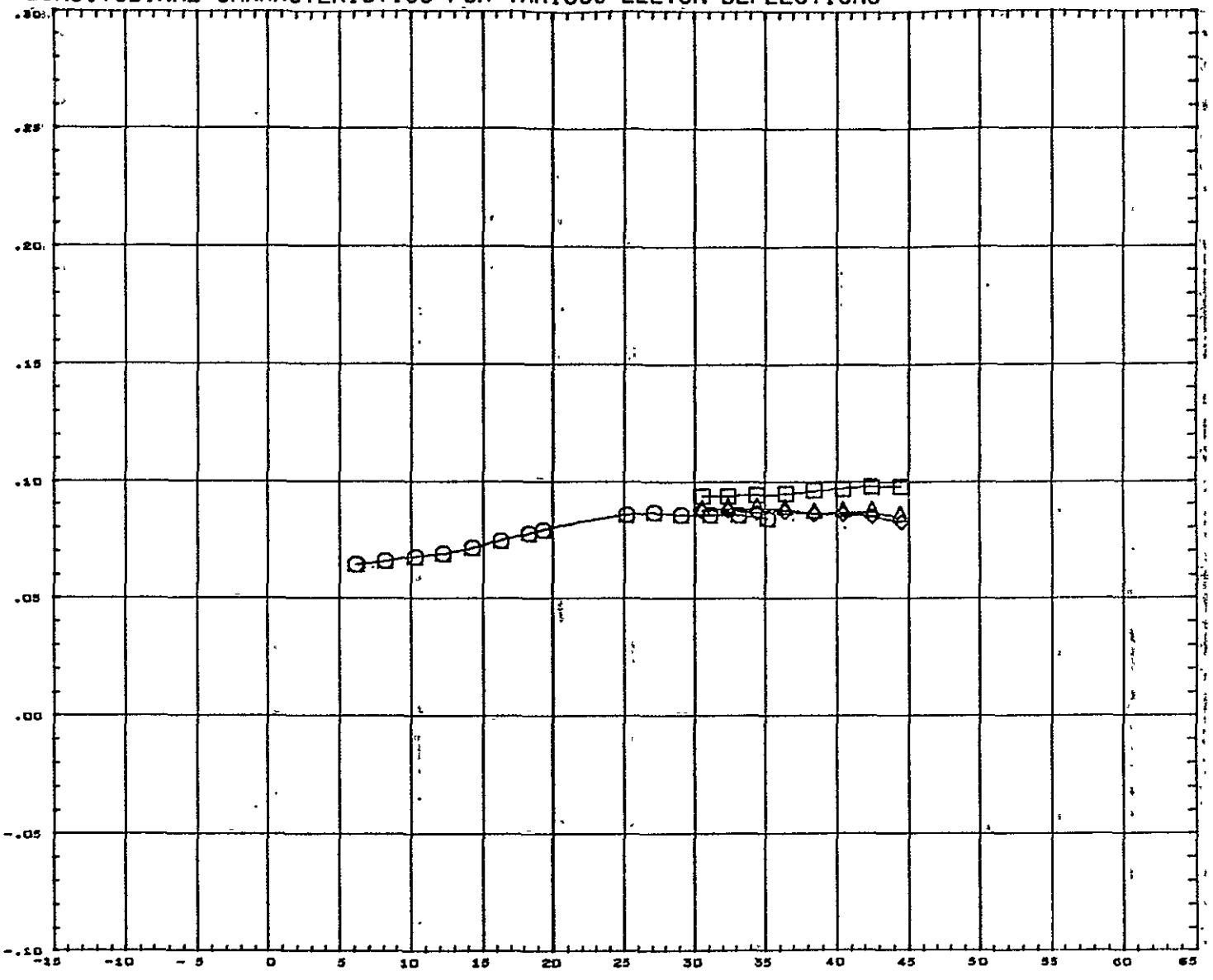
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28008)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28002)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28003)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28012)		DATA NOT AVAILABLE FOR ALL CONDITIONS

ELEVON	AILRON	CANARD	BETA
0.000	0.000	0.000	0.000
-10.000	10.000	0.000	0.000
-20.000	0.000	0.000	0.000
-60.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.000

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

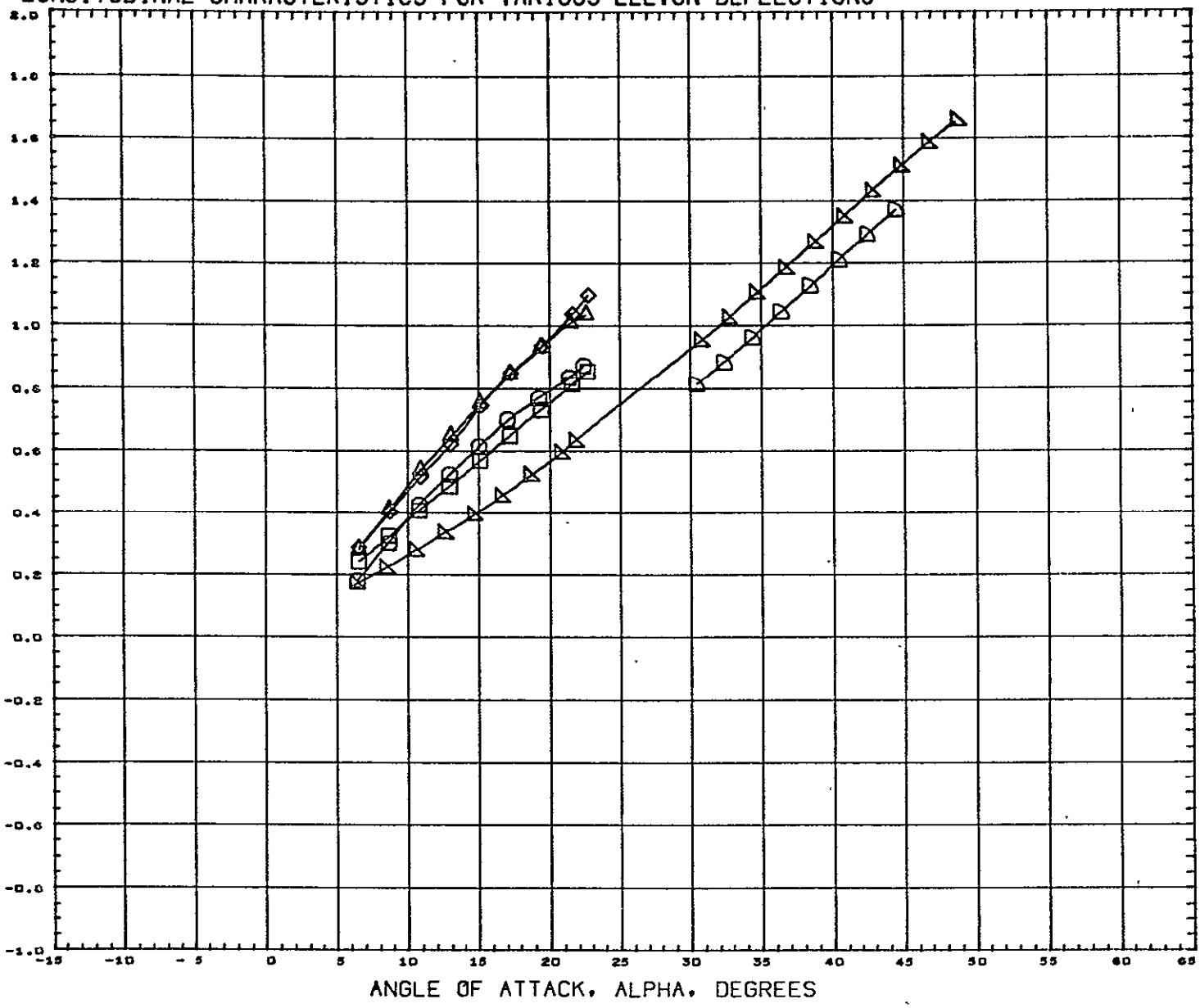


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000
(C28006)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-10.000	10.000	0.000	0.000
(C28002)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-20.000	0.000	0.000	0.000
(C28003)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000	0.000	0.000
(C28012)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000

MACH 4.960

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035.	

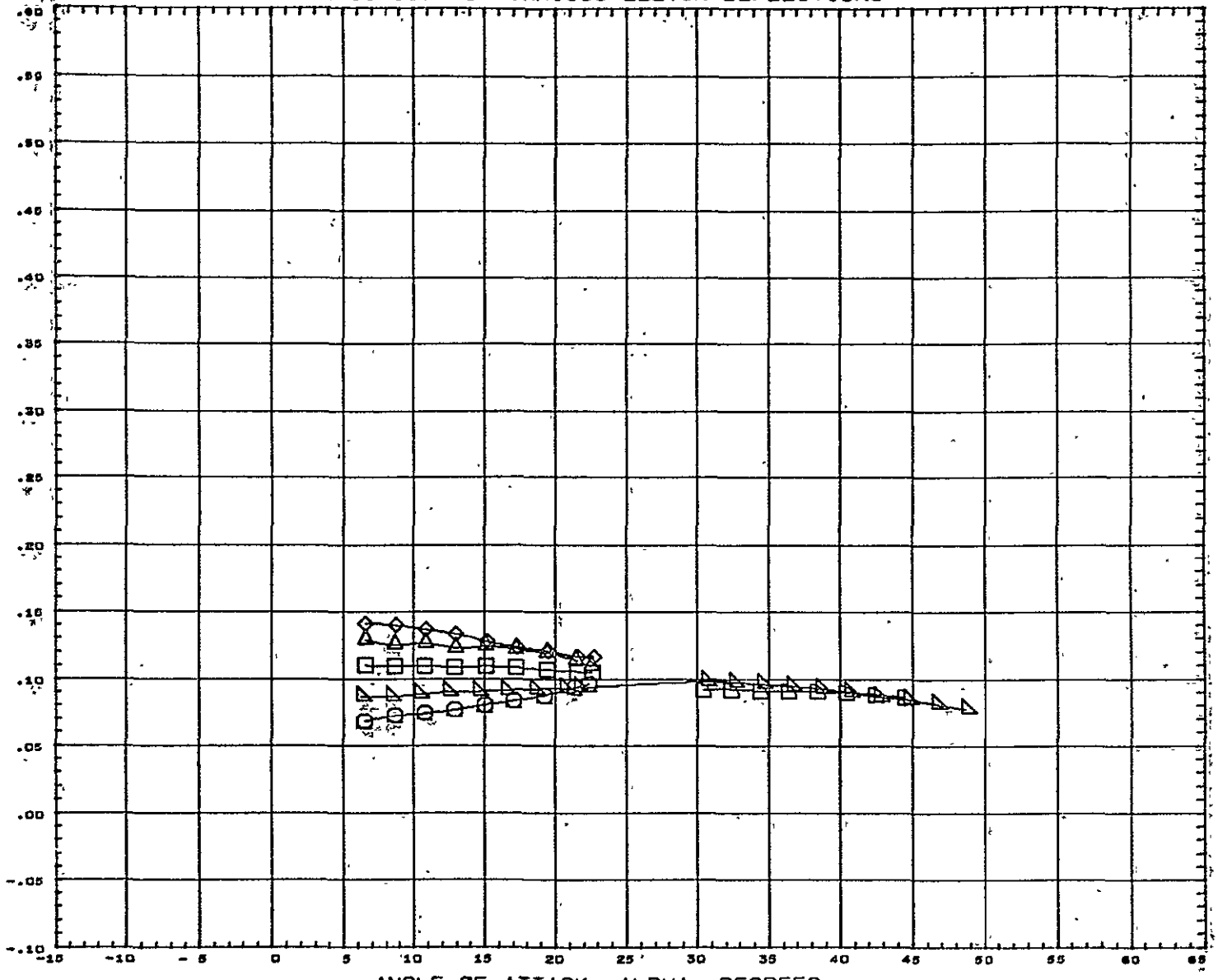
LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.904	BETA	0.000	DEL	- 20.000
△	1.002	DER	- 20.000	DCL	0.000
◇	1.204	DCR	0.000	ELEVON	- 20.000
□	1.959	CANARD	0.000	AILRON	0.000
◸	2.990				
▷	4.960	DATA HIST. CODE		HVR*E*G	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

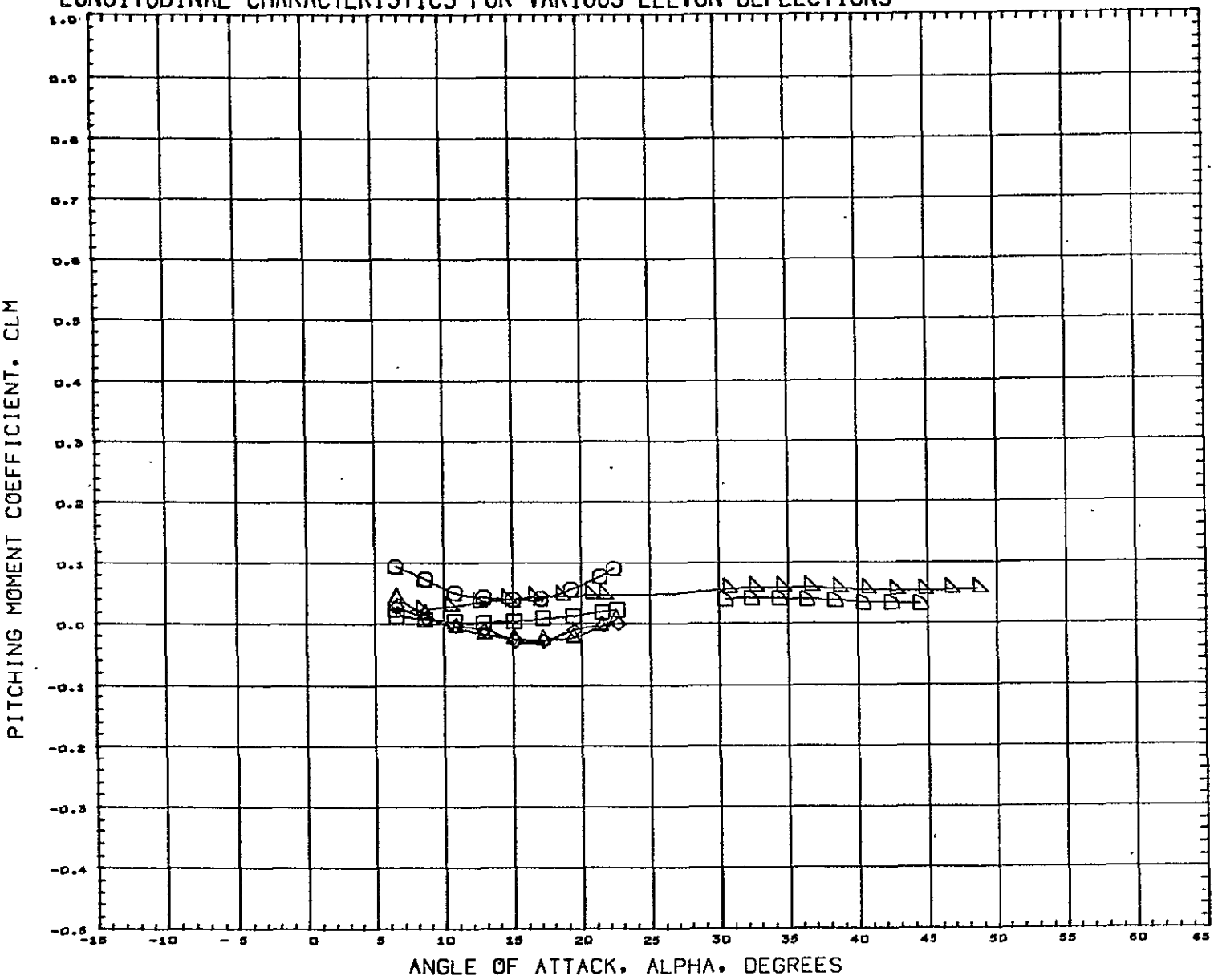
LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.904	BETA	0.000	DEL	- 20.000
△	1.002	DER	- 20.000	DCL	0.000
□	1.204	DCR	0.000	ELEVON	- 20.000
◇	1.959	CANARD	0.000	AILRON	0.000
▽	2.990				
▷	4.960	DATA HIST. CODE	MVR*E*G,		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

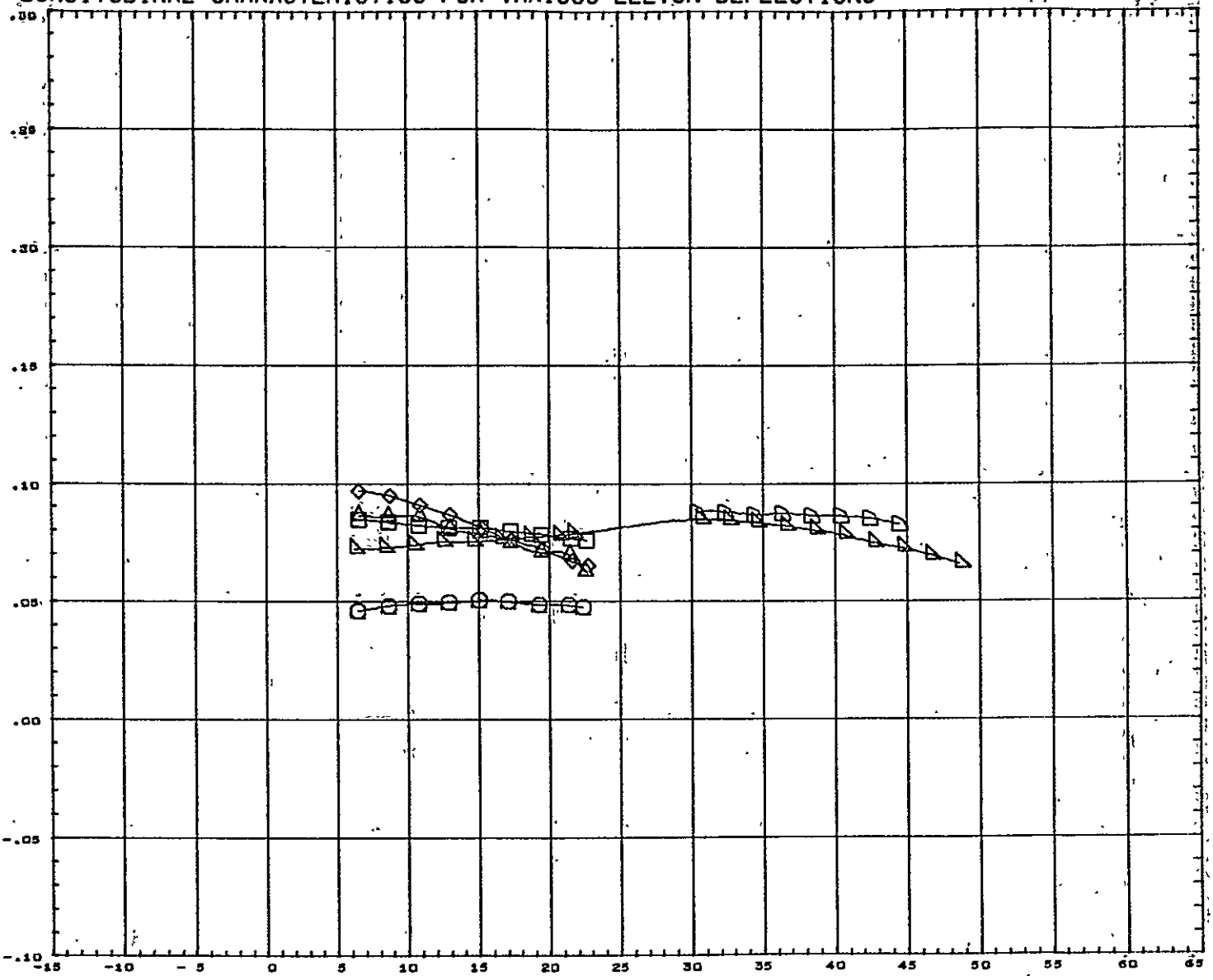
LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.904	BETA	0.000	DEL	- 20.000
△	1.002	DER	- 20.000	DCL	0.000
◇	1.204	DCR	0.000	ELEVON	- 20.000
□	1.959	CANARD	0.000	AILRON	0.000
▷	2.990				
D	4.960	DATA HIST. CODE		HVR*E*G	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

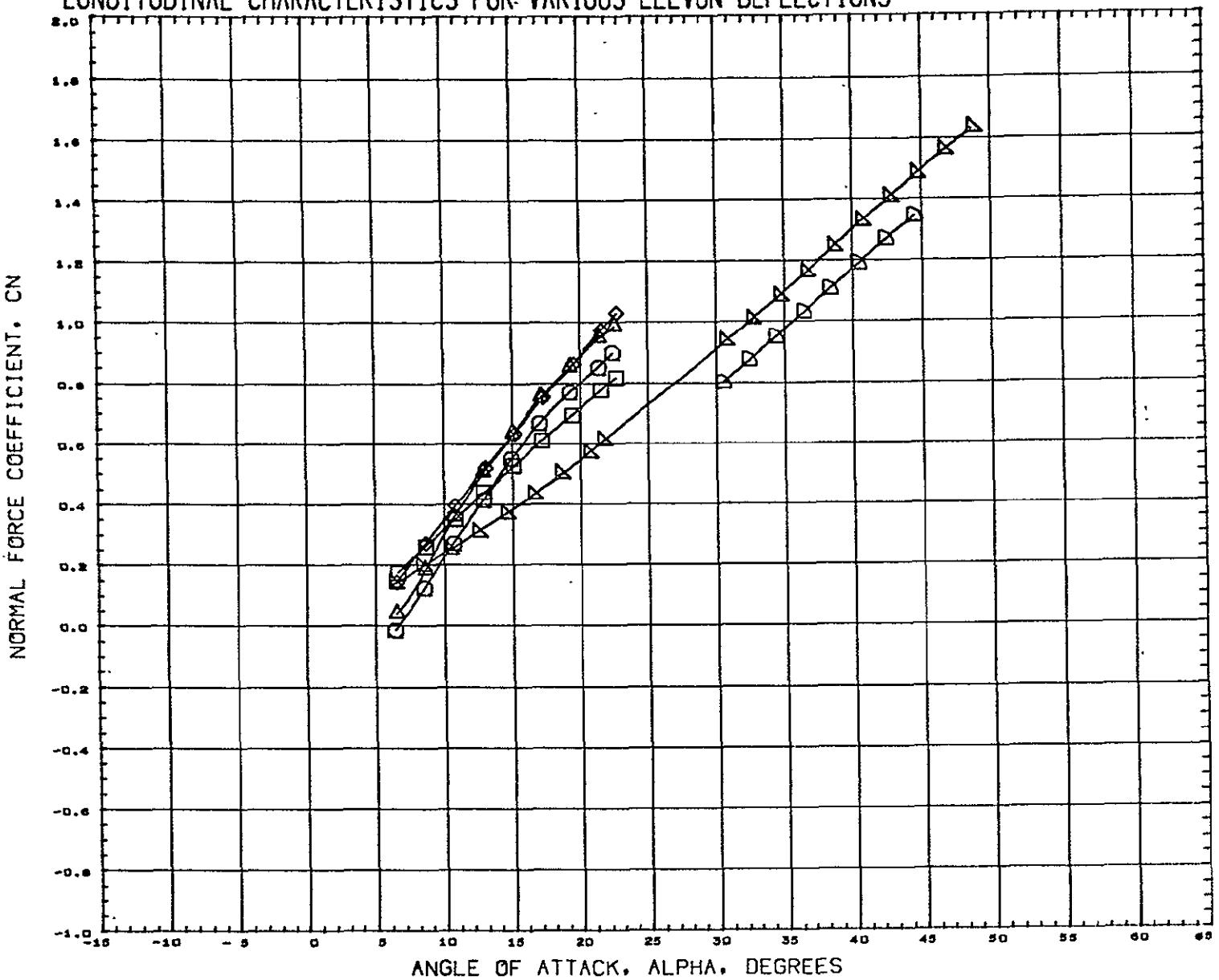
LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.904	BETA	0.000	DEL	- 20.000
△	1.002	DER	- 20.000	DCL	0.000
◇	1.204	DCR	0.000	ELEVON	- 20.000
□	1.959	CANARD	0.000	AILRON	0.000
▽	2.990				
D	4.960	DATA HIST. CODE		HVR*E*G	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

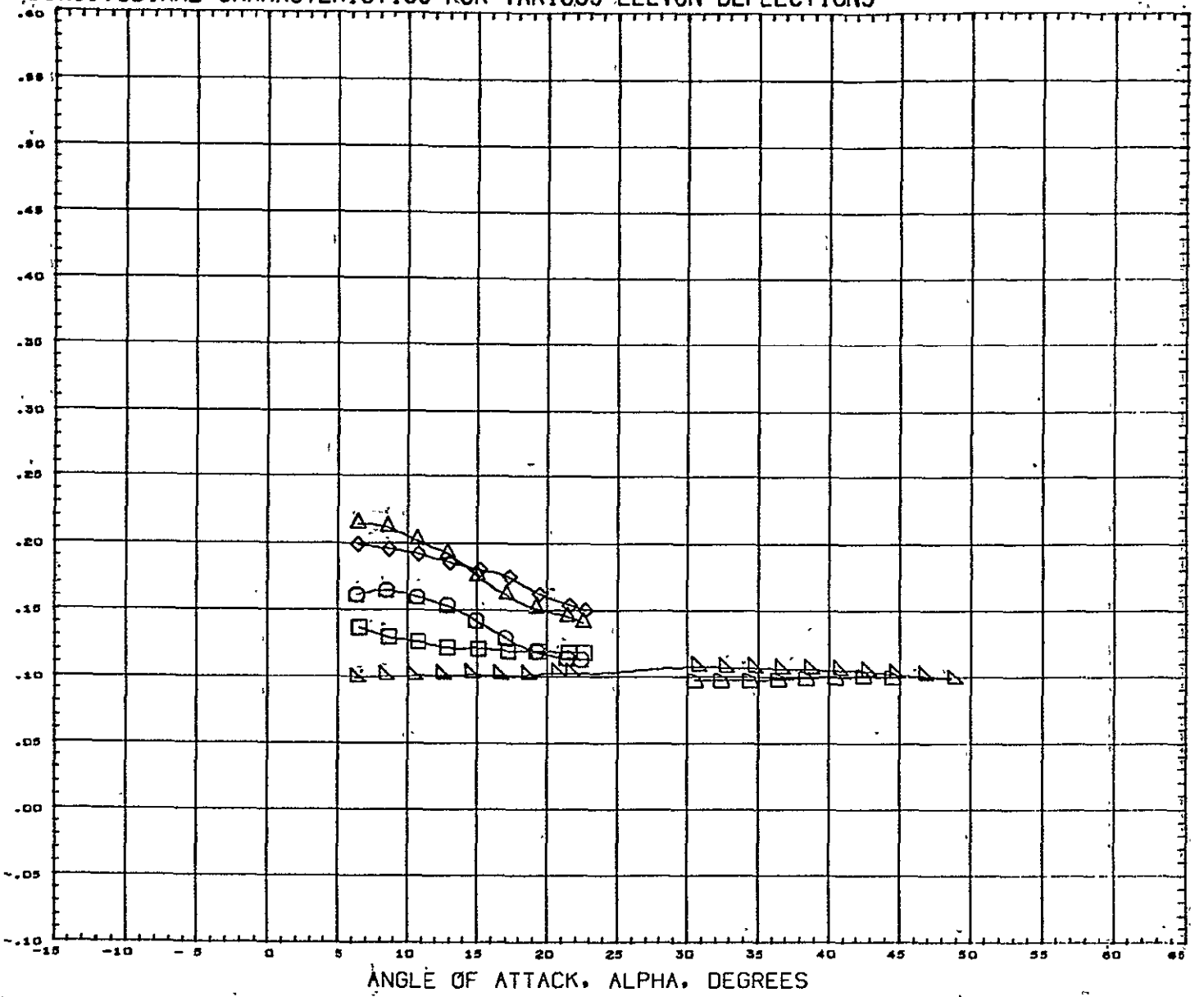


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.901	BETA	0.000	DEL	- 60.000
△	1.003	DER	- 60.000	DCL	0.000
◇	1.202	DCR	0.000	ELEVON	- 60.000
□	1.960	CANARD	0.000	AILRON	0.000
▽	2.990				
D	4.960	DATA HIST. CODE		MVR*E*G	

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

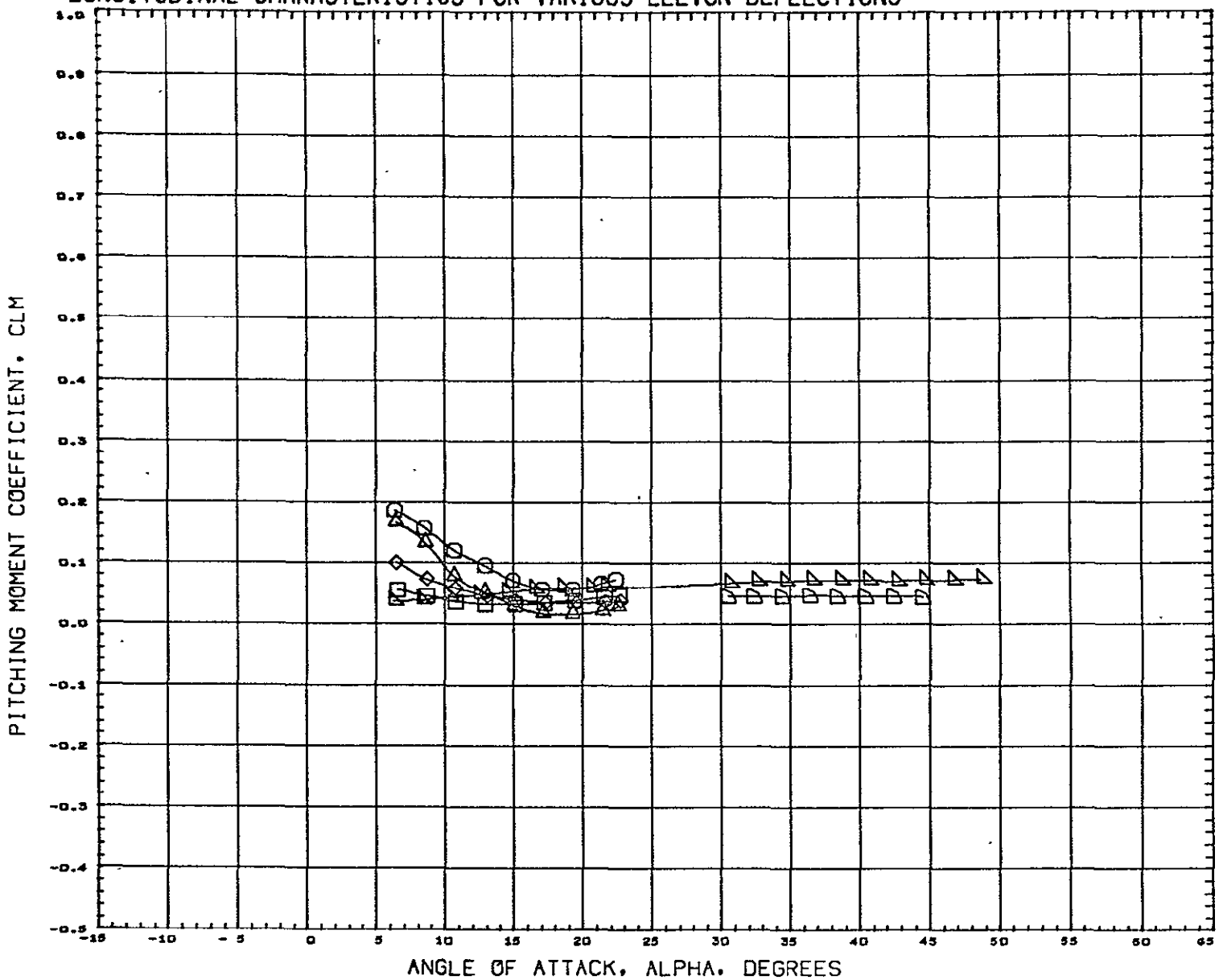
LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
	0.901	BETA	0.000	DEL	- 60.000
	1.003	DER	- 60.000	DCL	0.000
	1.202	DCR	0.000	ELEVON	- 60.000
	1.960	CANARD	0.000	AILRON	0.000
	2.990				
	4.960	DATA HIST. CODE	MVR*E*G		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

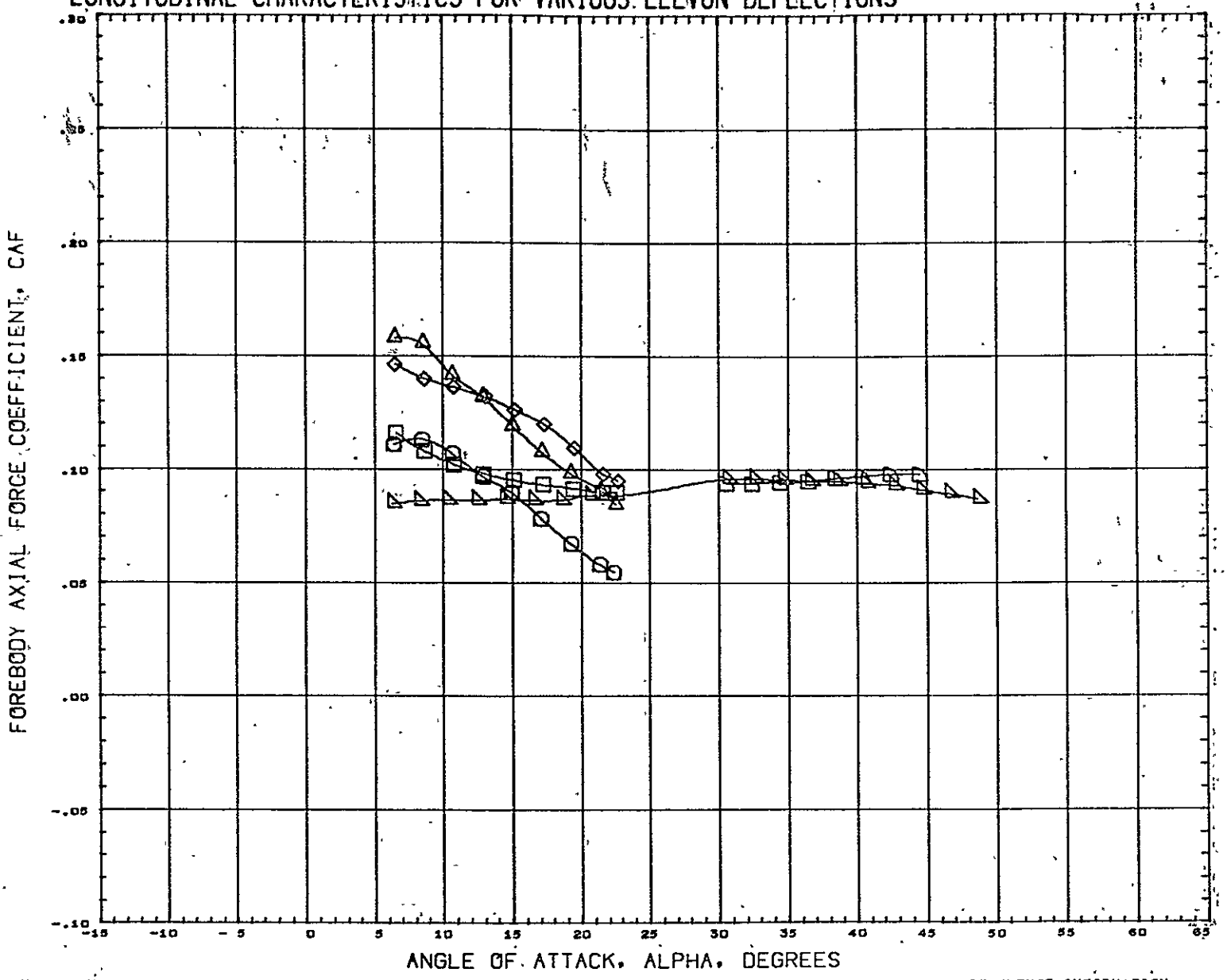
LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.901	BETA	0.000	DEL	- 60.000
△	1.003	DER	- 60.000	DCL	0.000
◇	1.202	DCR	0.000	ELEVON	- 60.000
□	1.960	CANARD	0.000	AILRON	0.000
▽	2.990				
	4.960	DATA HIST. CODE		MVR*E*G	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

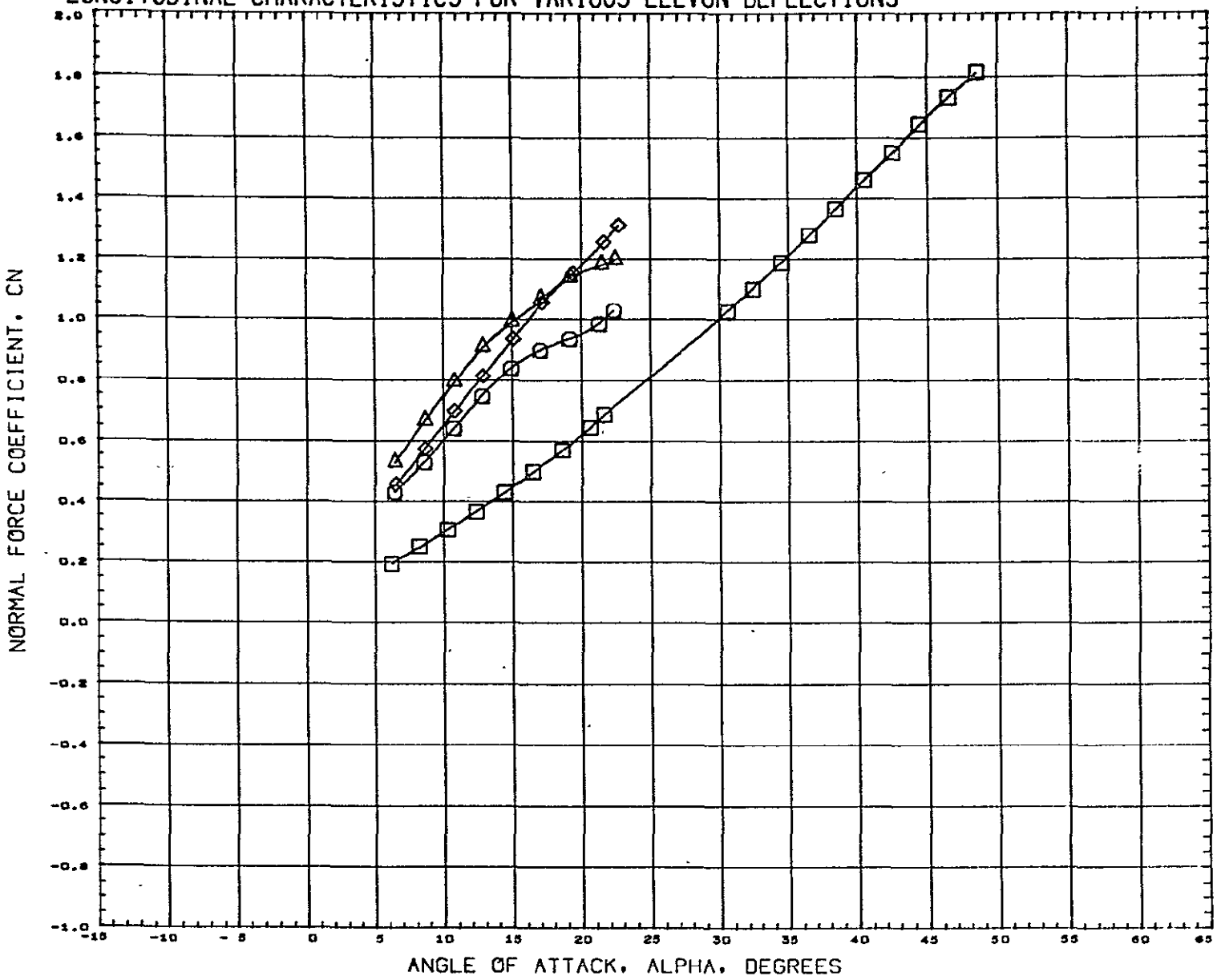
LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.901	BETA	0.000	DEL	- 60.000
△	1.003	DER	- 60.000	DCL	0.000
◇	1.202	DCR	0.000	ELEVON	- 60.000
□	1.960	CANARD	0.000	AILRON	0.000
▽	2.990				
⬠	4.960	DATA HIST. CODE		NVR*E*G	

REFERENCE INFORMATION		
SREF	15.6560	SQ. IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



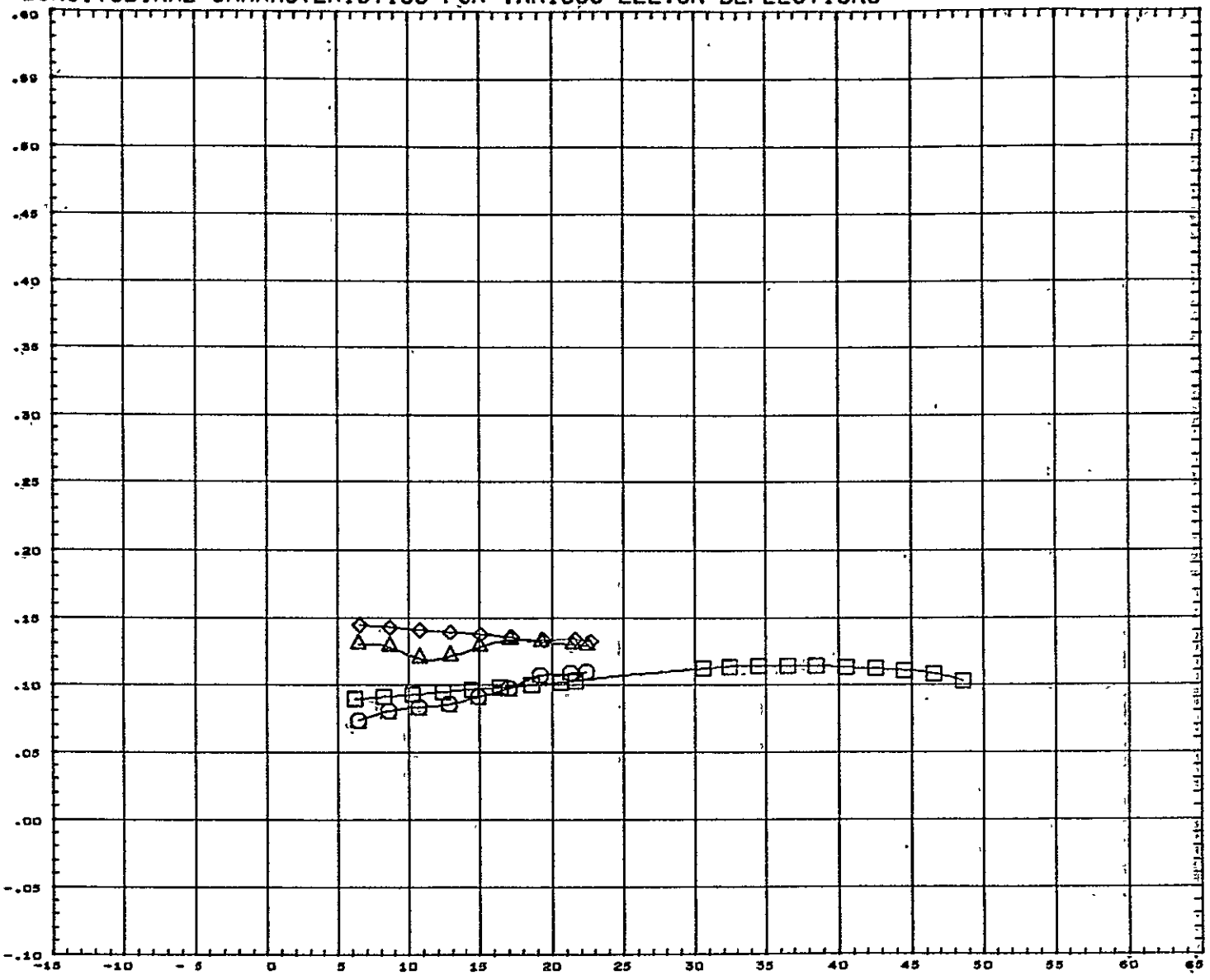
SYMBOL	MACH		PARAMETRIC VALUES		
○	0.899	BETA	0.000	DEL	10.000
△	1.003	DER	10.000	DCL	0.000
◇	1.197	DCR	0.000	ELEVON	10.000
□	2.990	CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*G

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



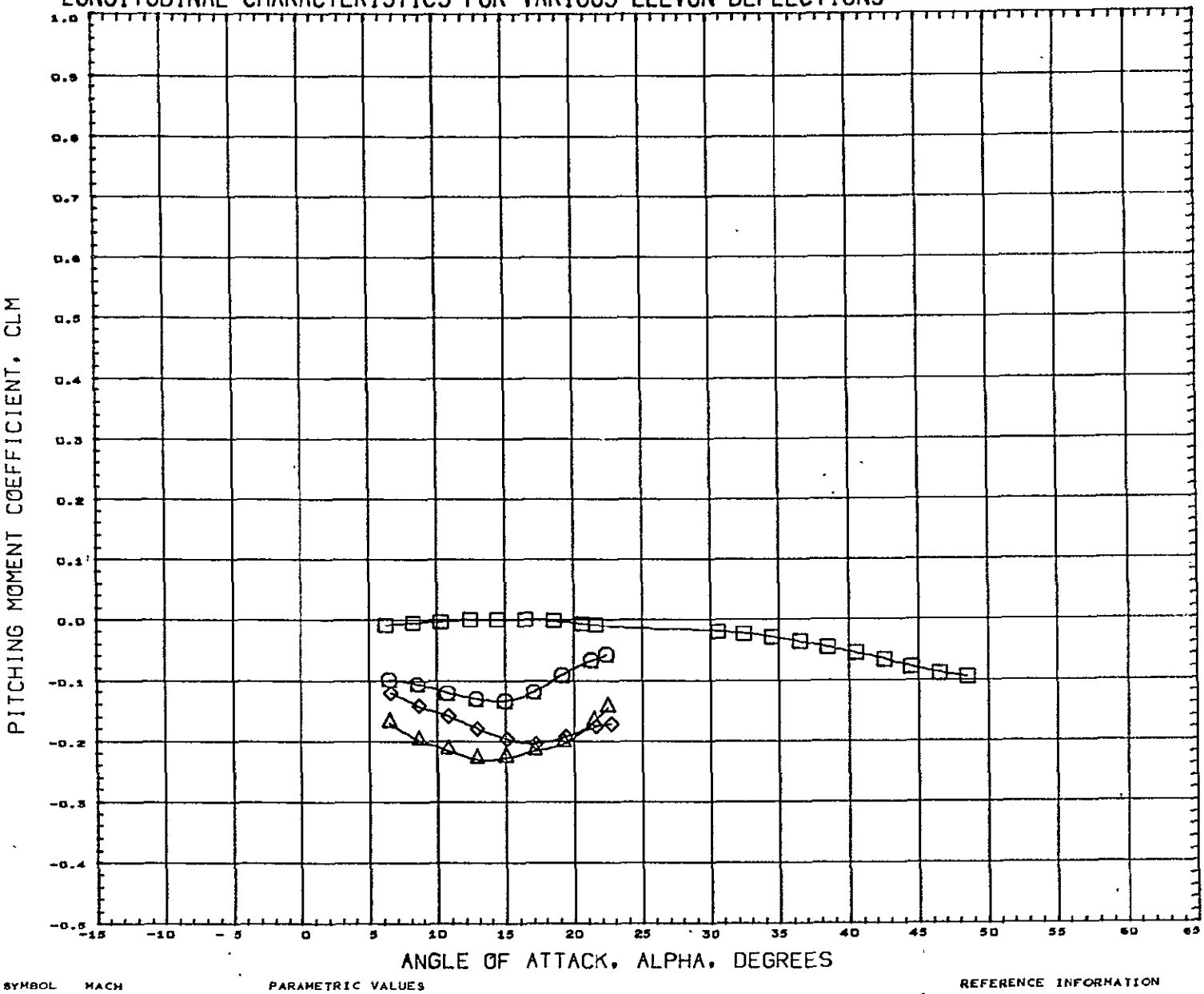
SYMBOL	MACH		PARAMETRIC VALUES		
○	0.699	BETA	0.000	DEL	10.000
△	1.003	DER	10.000	DCL	0.000
◇	1.197	DCR	0.000	ELEVON	10.000
□	2.990	CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*G

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

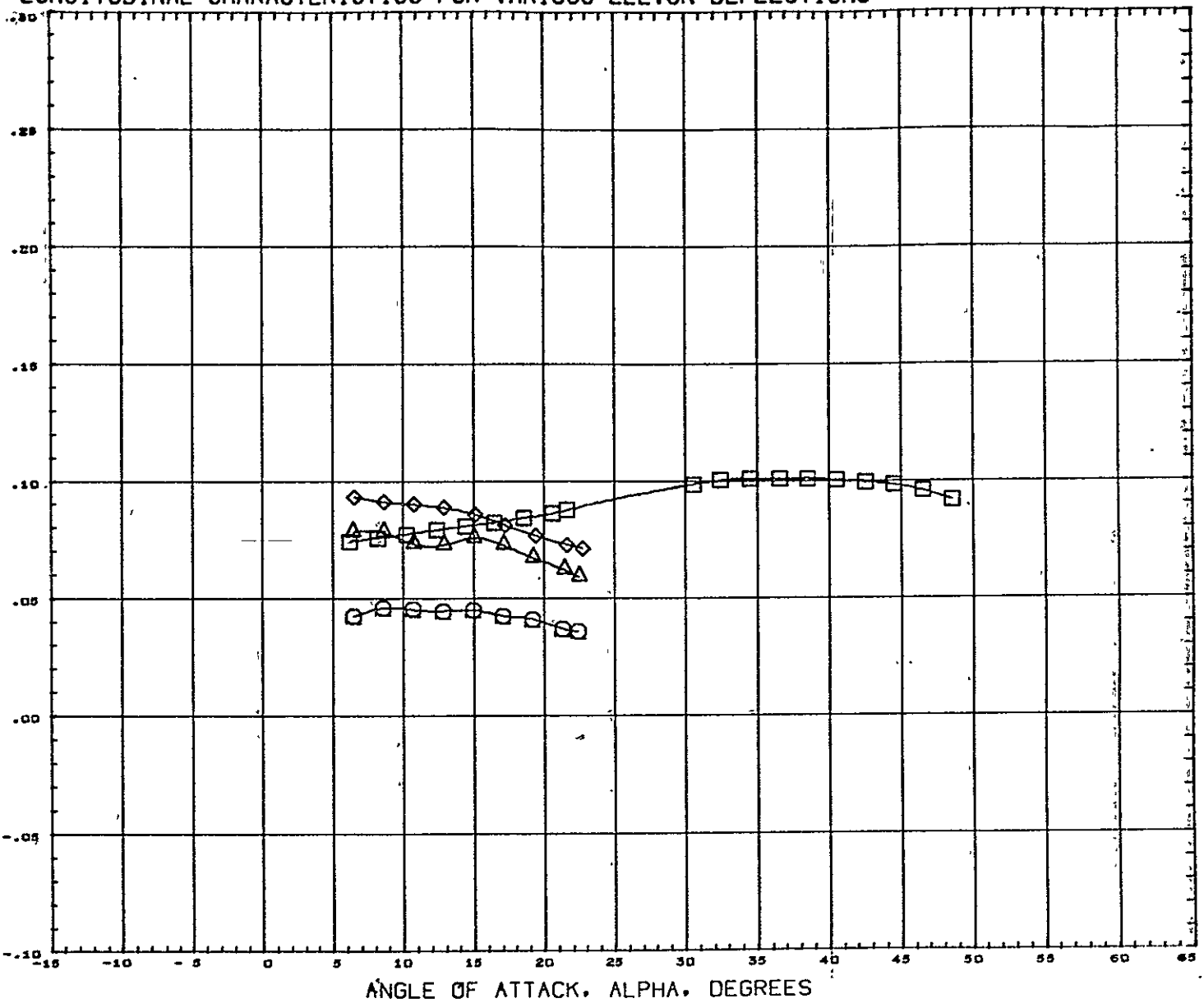


SYMBOL	MACH		PARAMETRIC VALUES		
○	0.899	BETA	0.000	DEL	10.000
△	1.003	DER	10.000	DCL	0.000
◇	1.197	DCR	0.000	ELEVON	10.000
□	2.990	CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*G

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



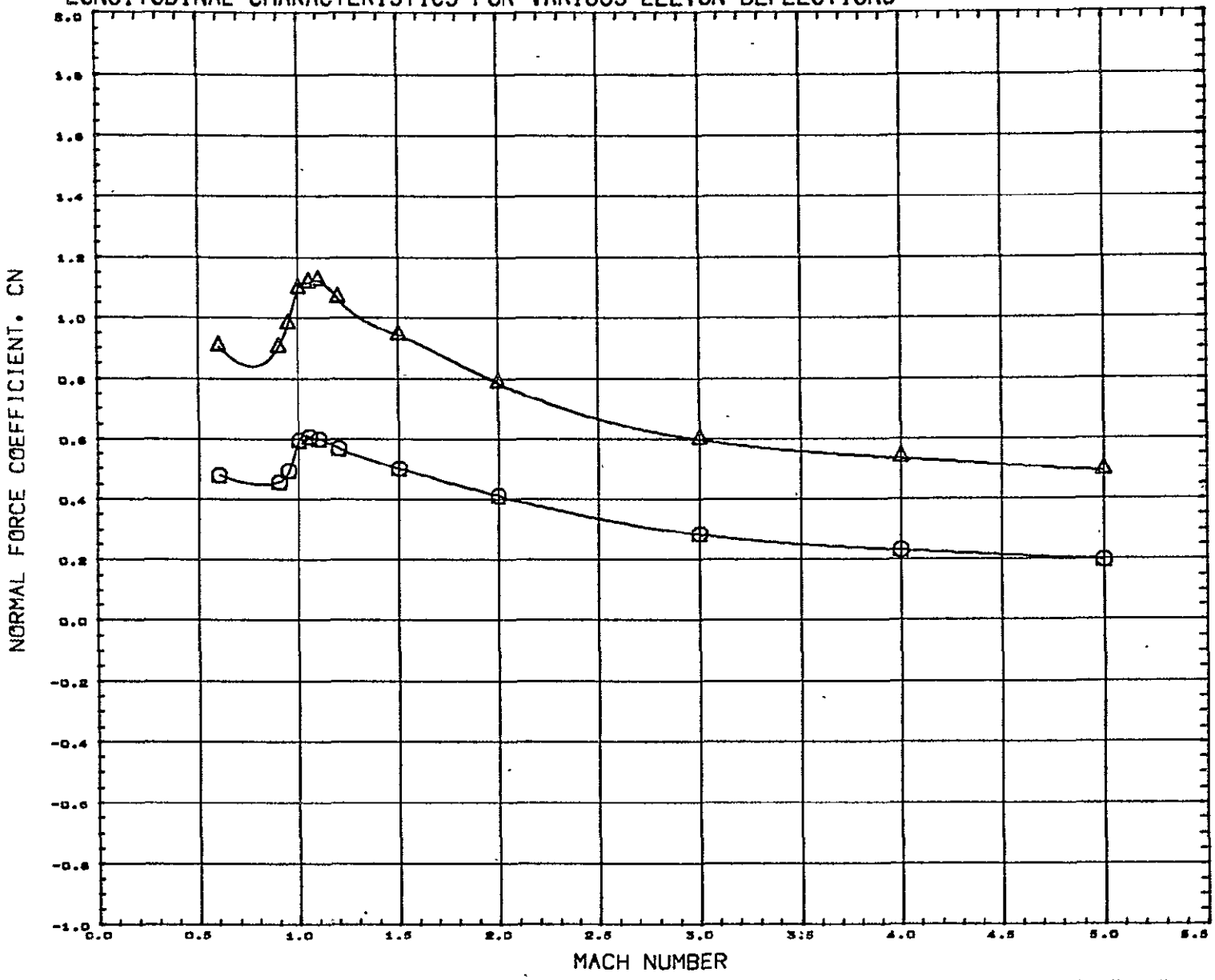
SYMBOL	MACH		PARAMETRIC VALUES		
○	0.699	BETA	0.000	DEL	10.000
△	1.003	DER	10.000	DCL	0.000
◇	1.197	DCR	0.000	ELEVON	10.000
□	2.990	CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*G

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

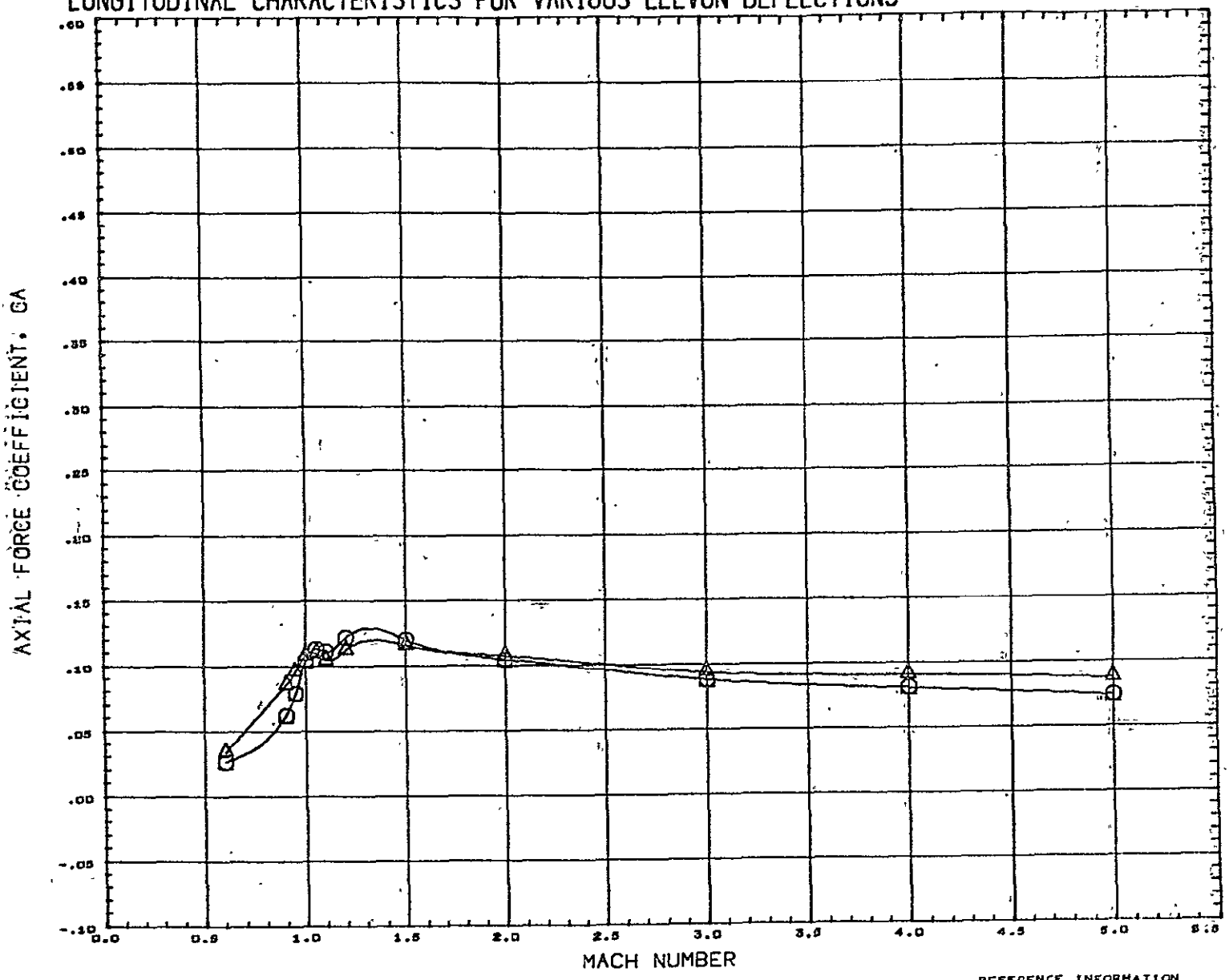


SYMBOL	ALPHA		PARAMETRIC VALUES		
△	10.000	BETA	0.000	DEL	0.000
○	20.000	DER	0.000	DCL	0.000
		DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



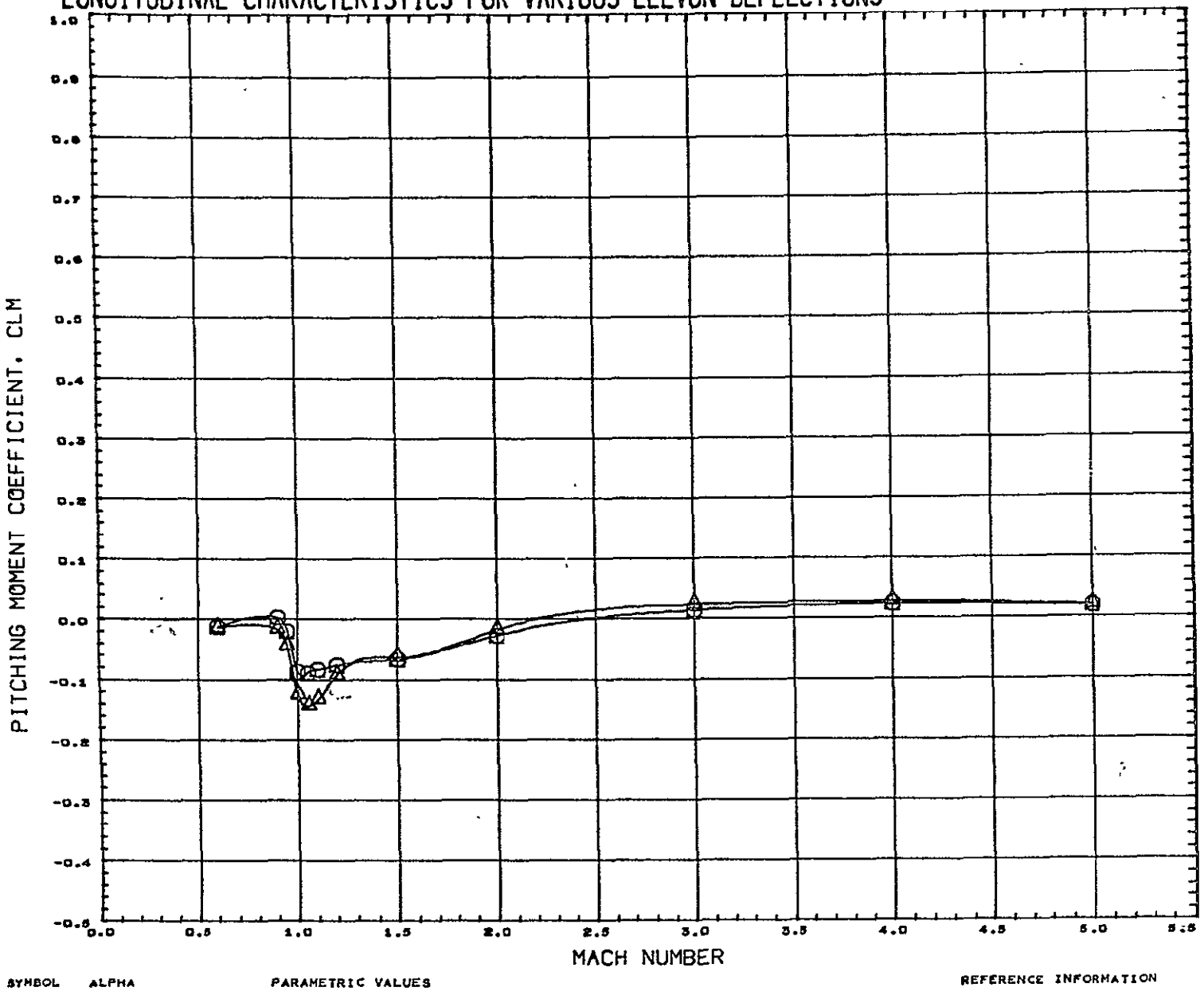
SYMBOL	ALPHA	PARAMETRIC VALUES			
△	10.000	BETA	0.000	DEL	0.000
▽	20.000	DER	0.000	DCL	0.000
		DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0900	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0039	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

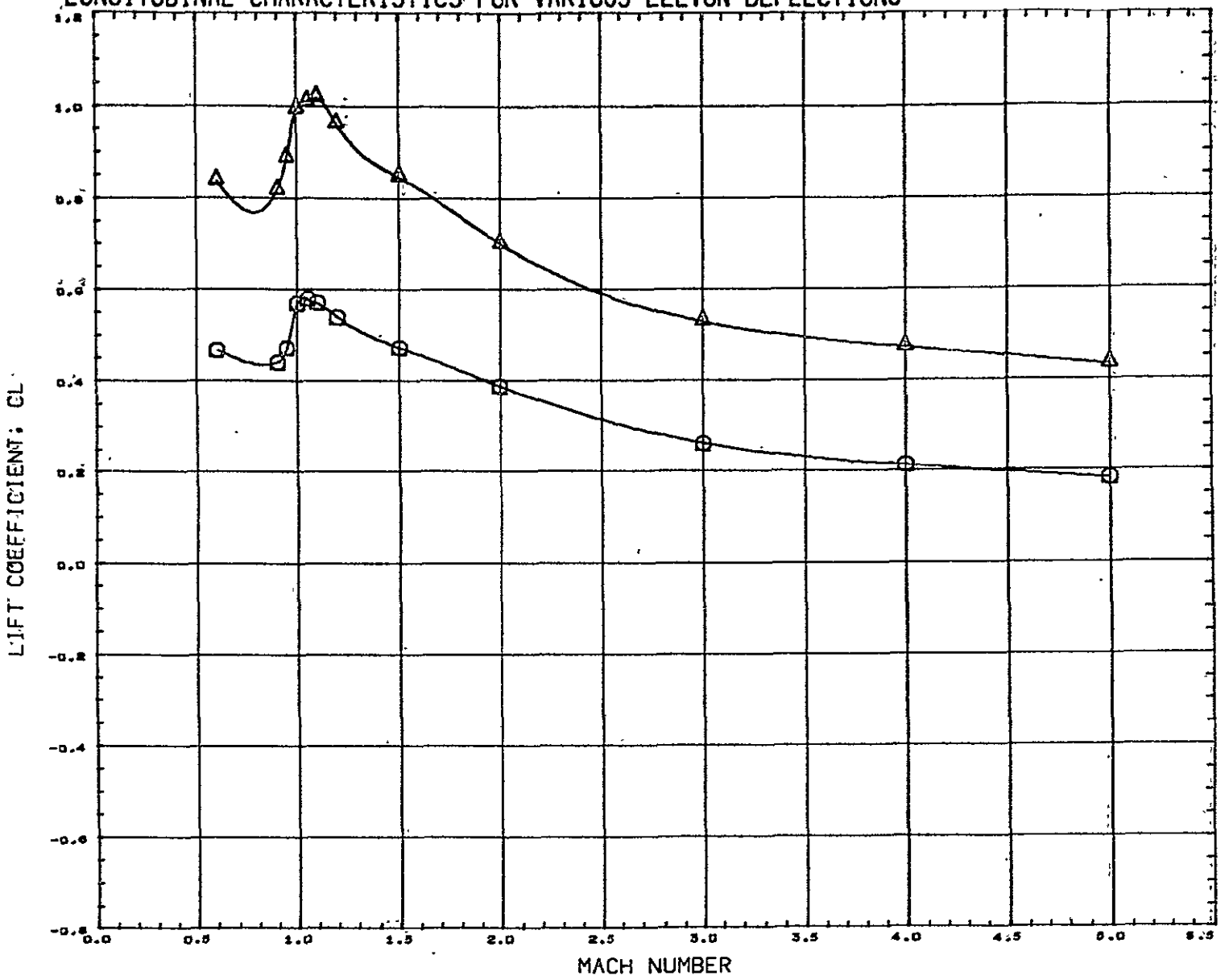


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	DCL	0.000
		DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

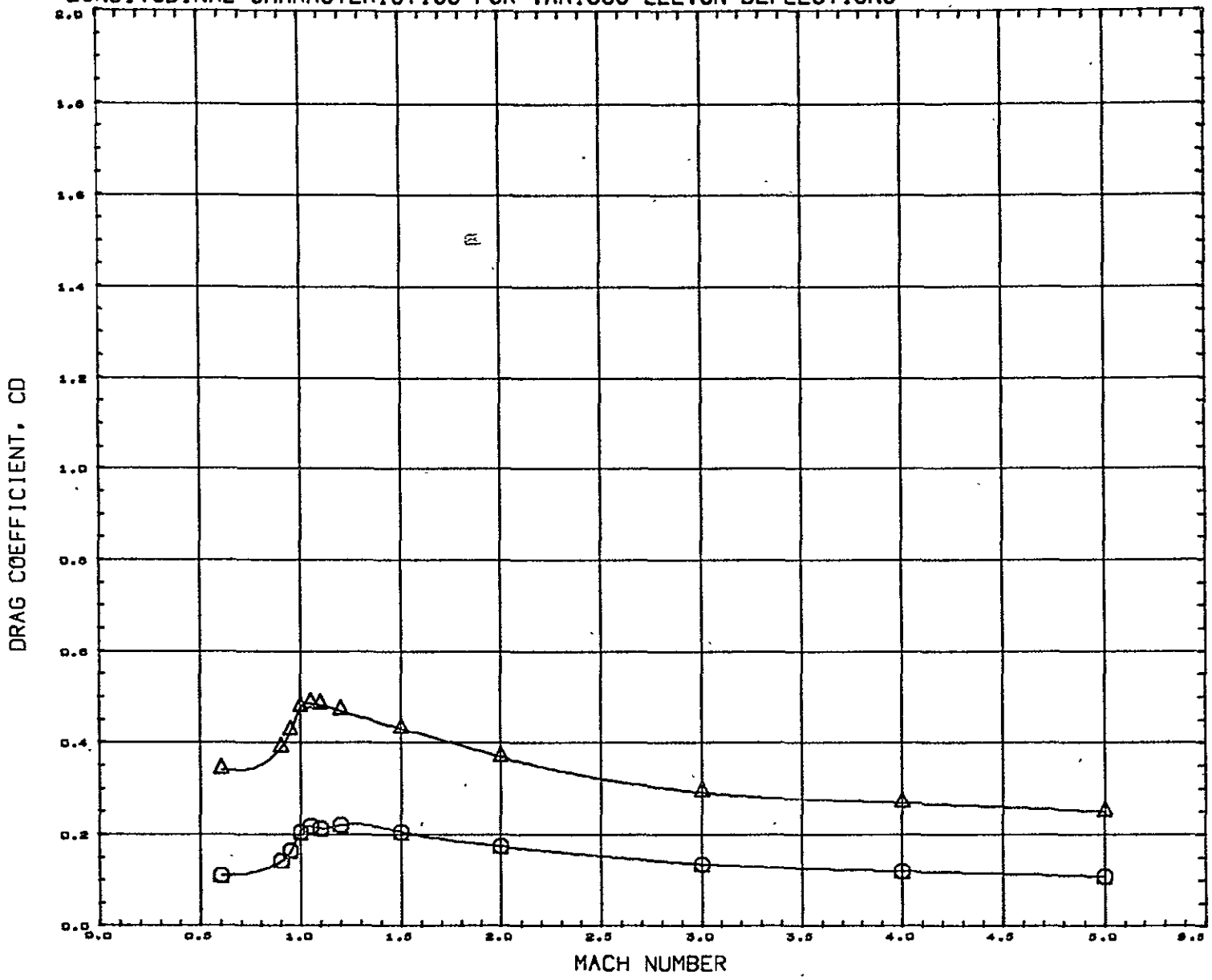
BETA	0.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

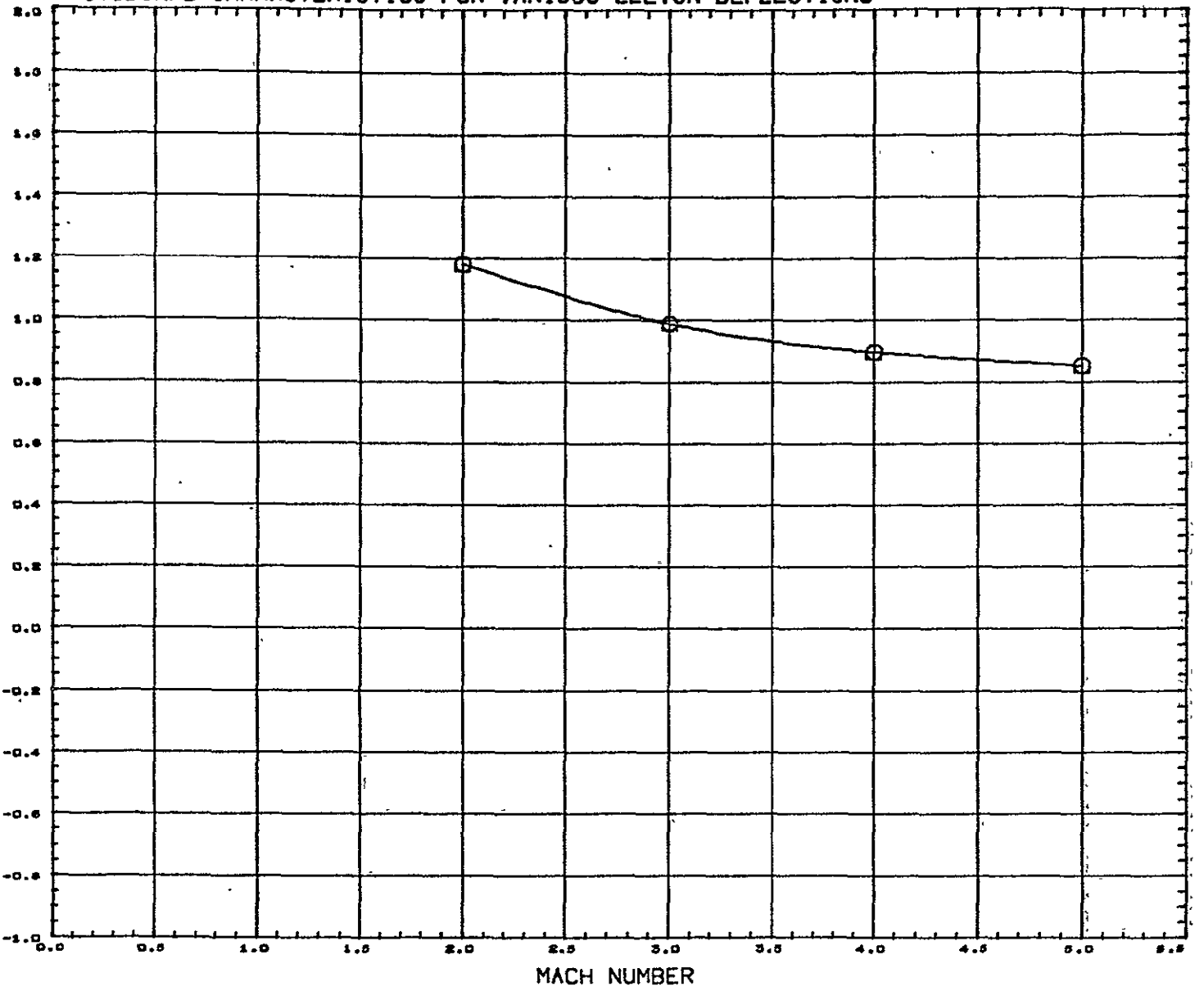
BETA	0.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
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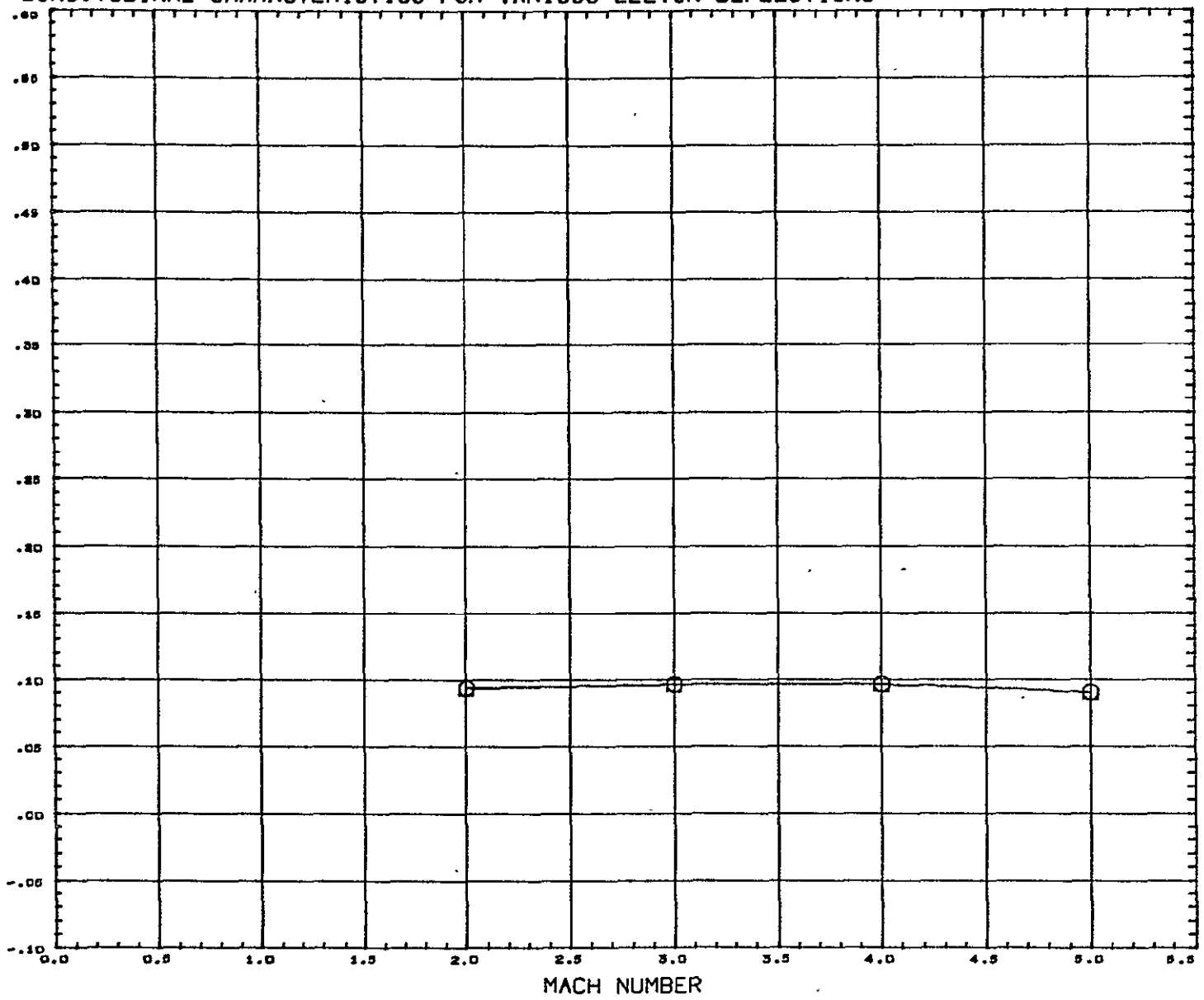
		DER	0.000	DCL	0.000
		DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

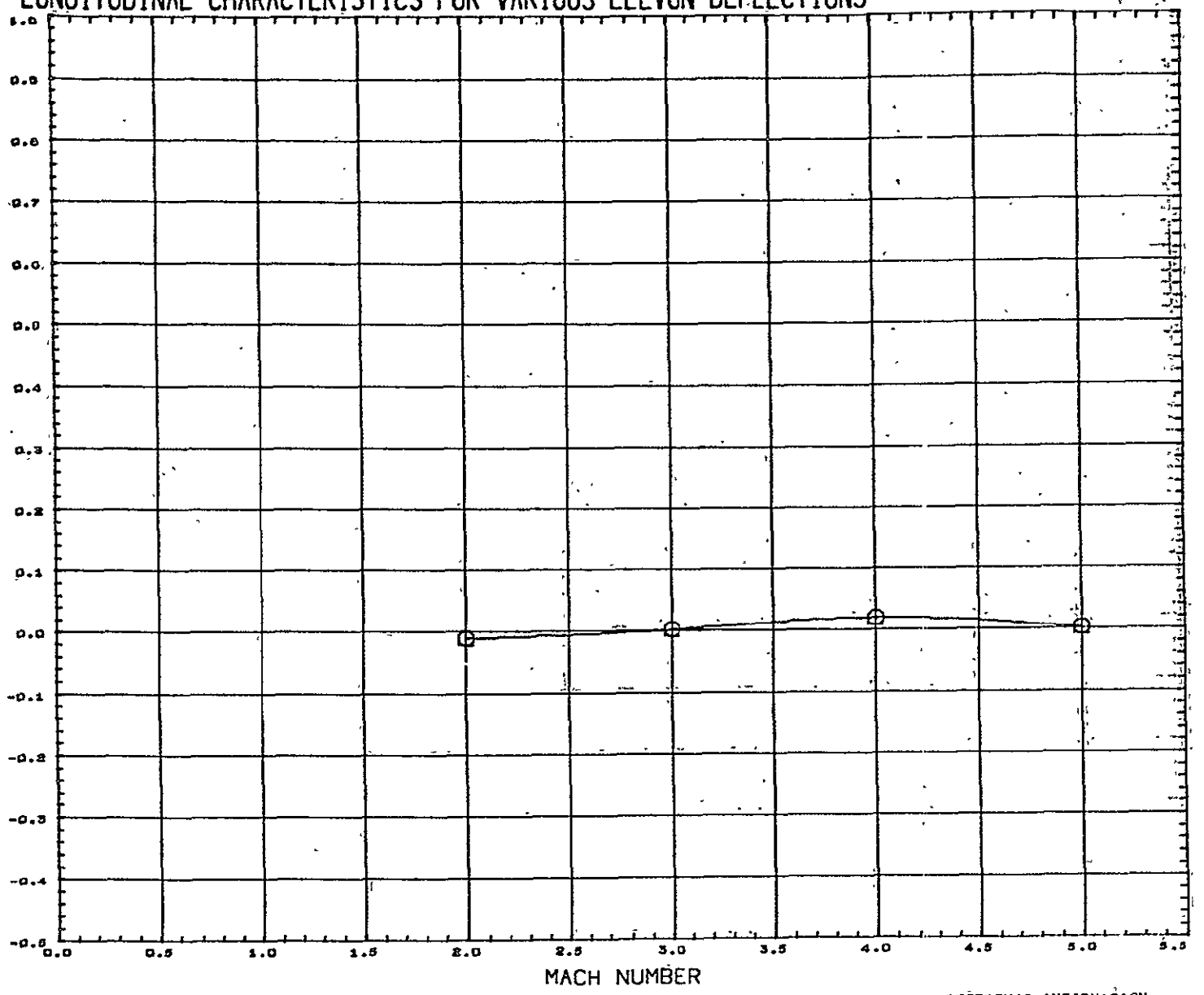


SYMBOL	ALPHA	PARAMETRIC VALUES			
O	30.000	BETA	0.000	DEL	0.000
		DER	0.000	DCL	0.000
		DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
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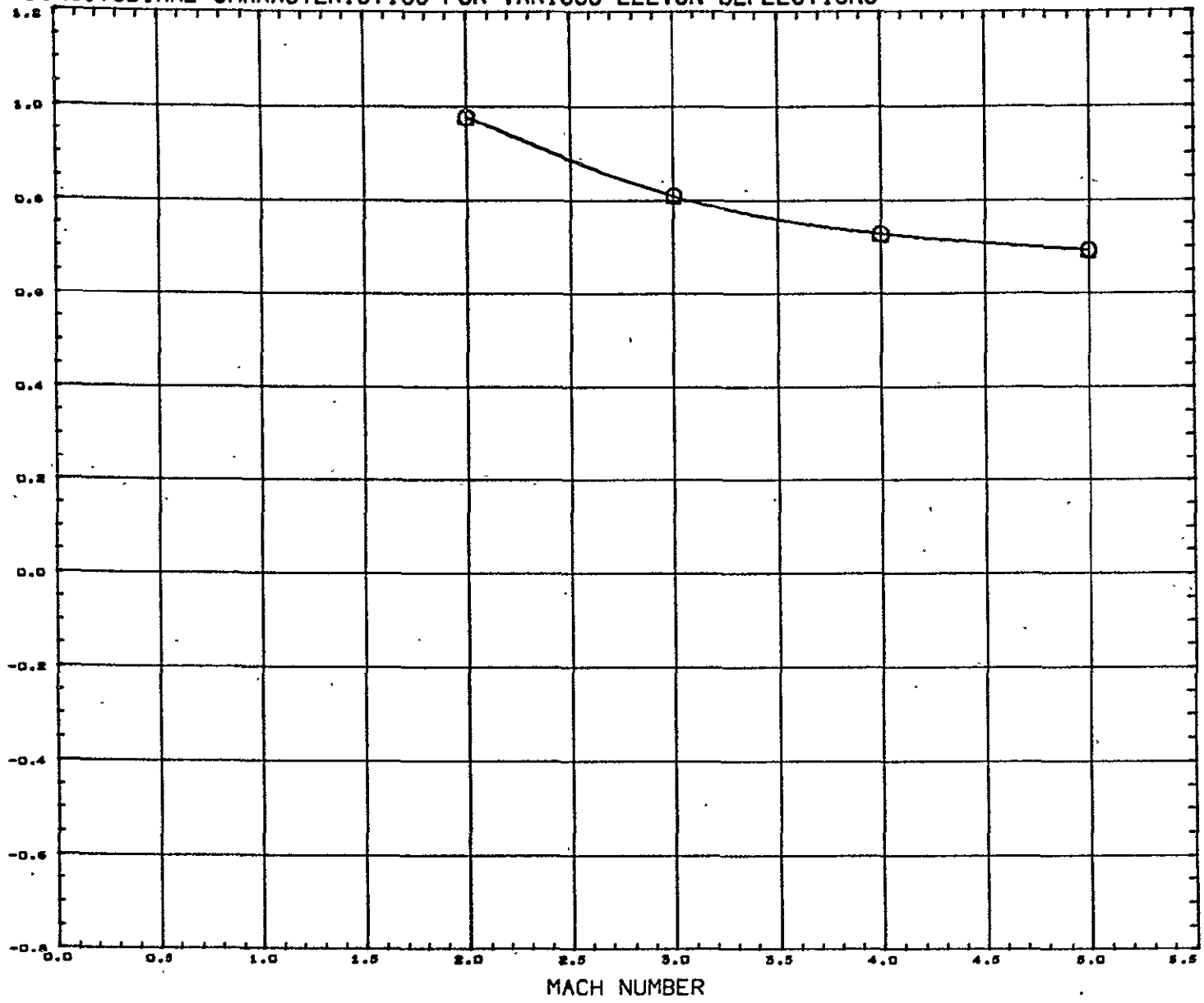
		DER	0.000	DCL	0.000
		DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
O	30.000

PARAMETRIC VALUES

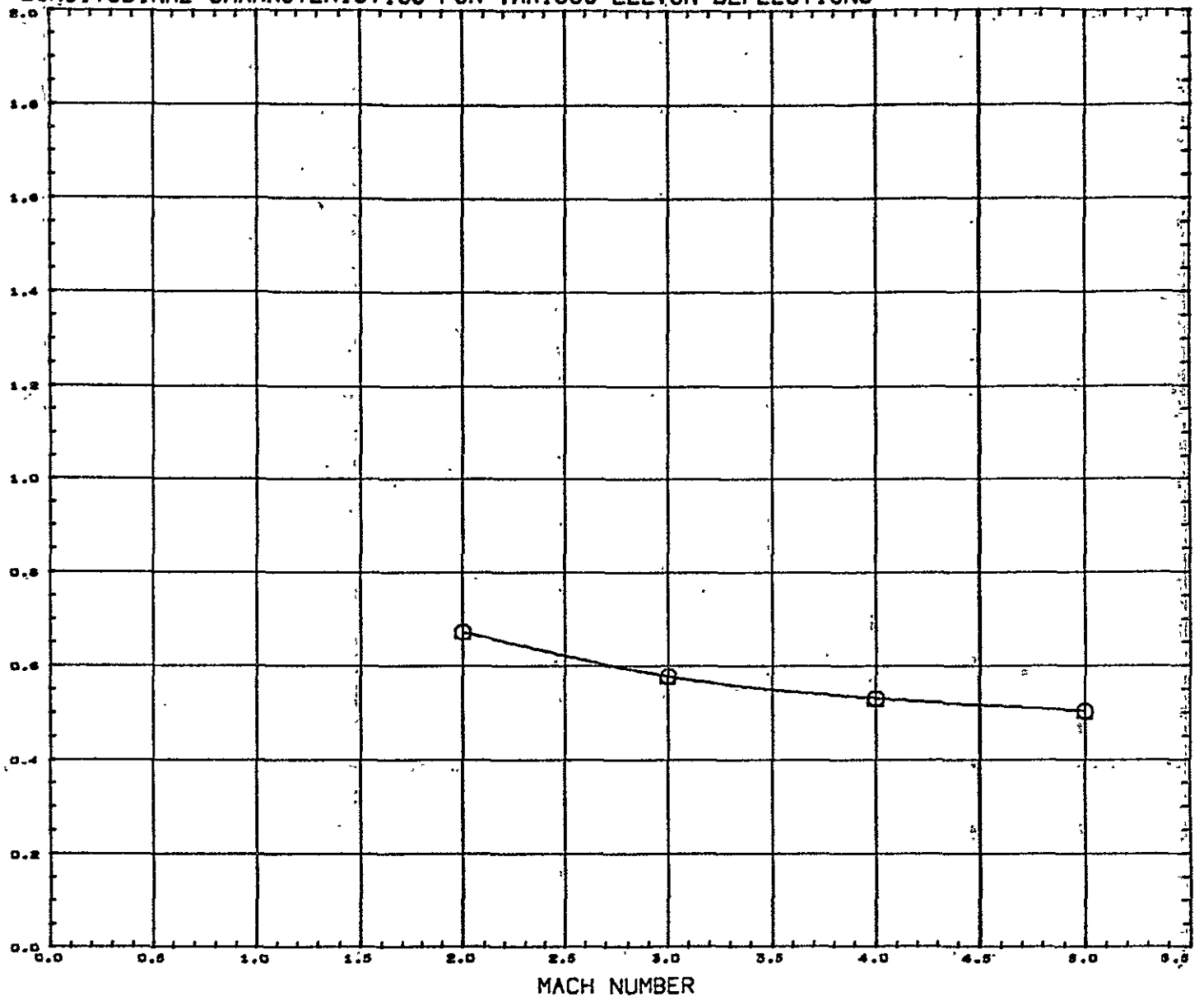
BETA	0.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
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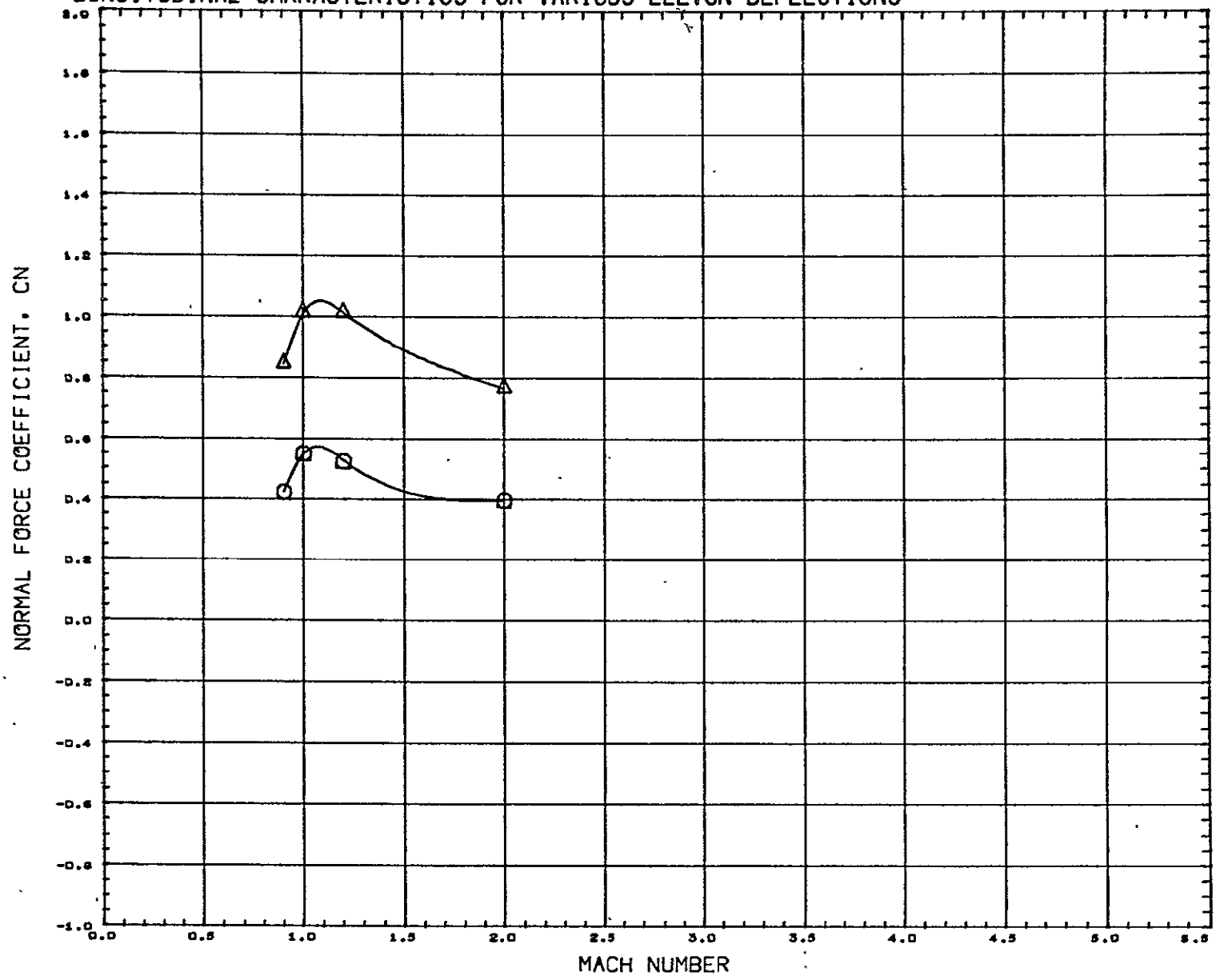
		DER	0.000	DCL	0.000
		DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

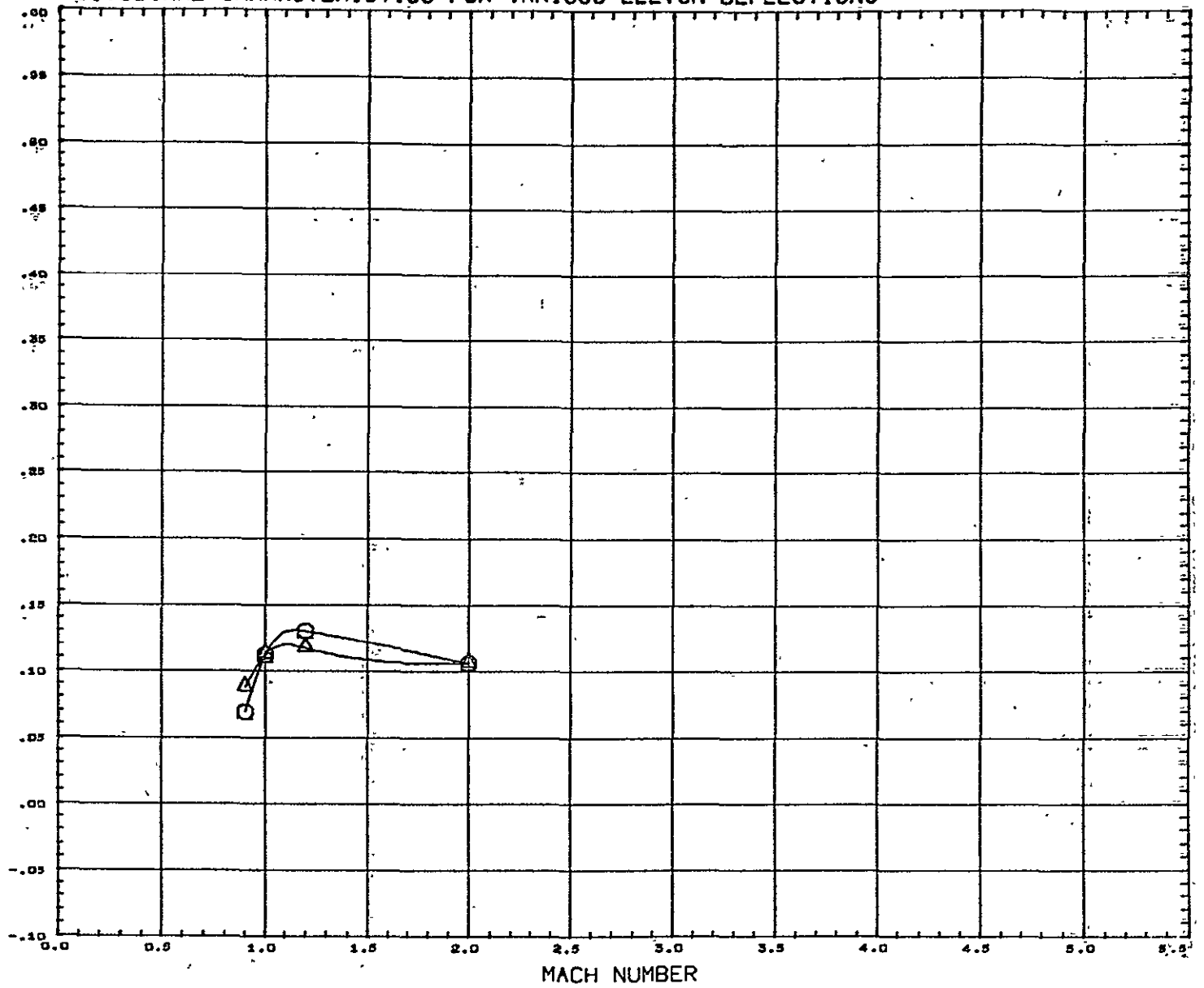
BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

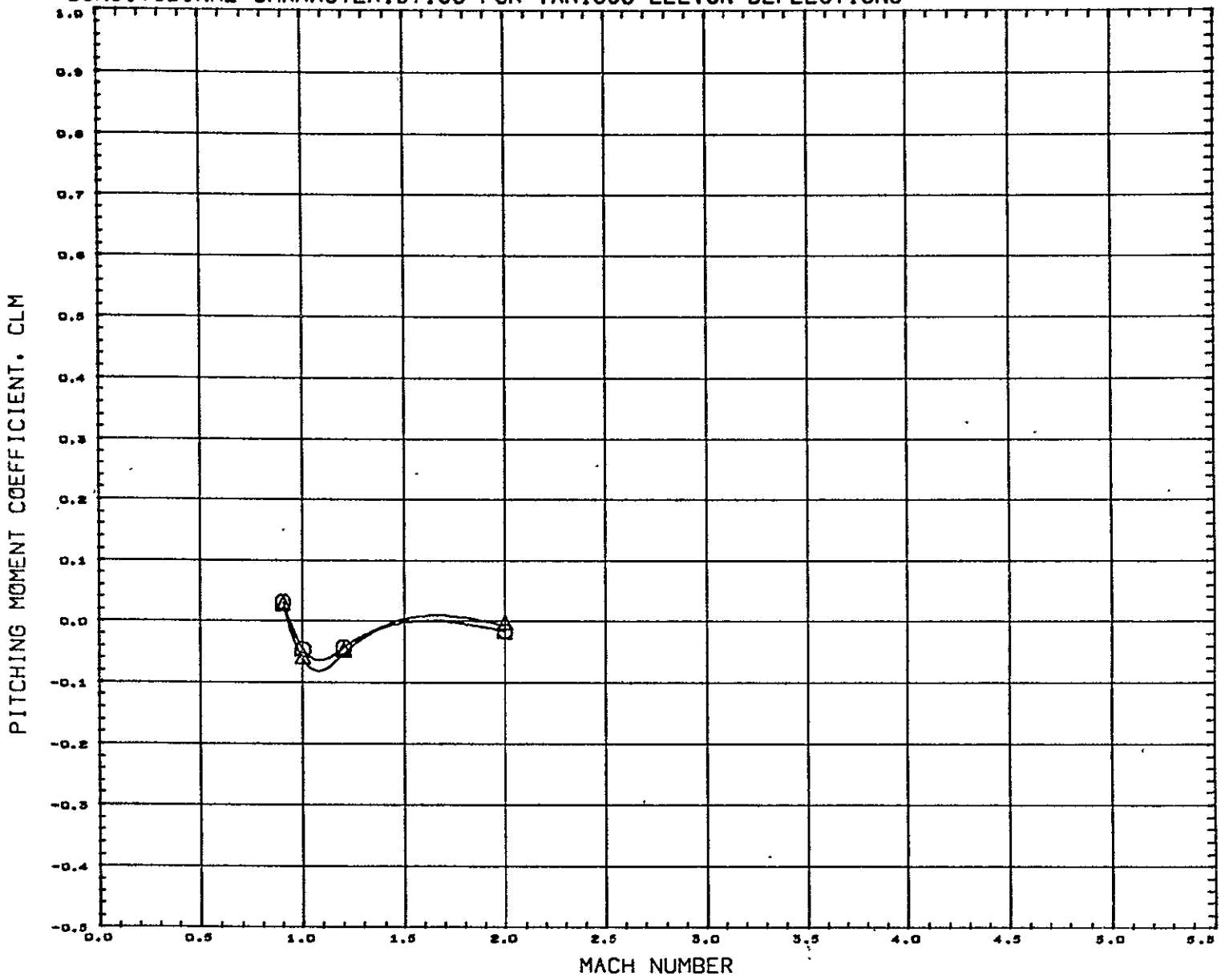
DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	-

59

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
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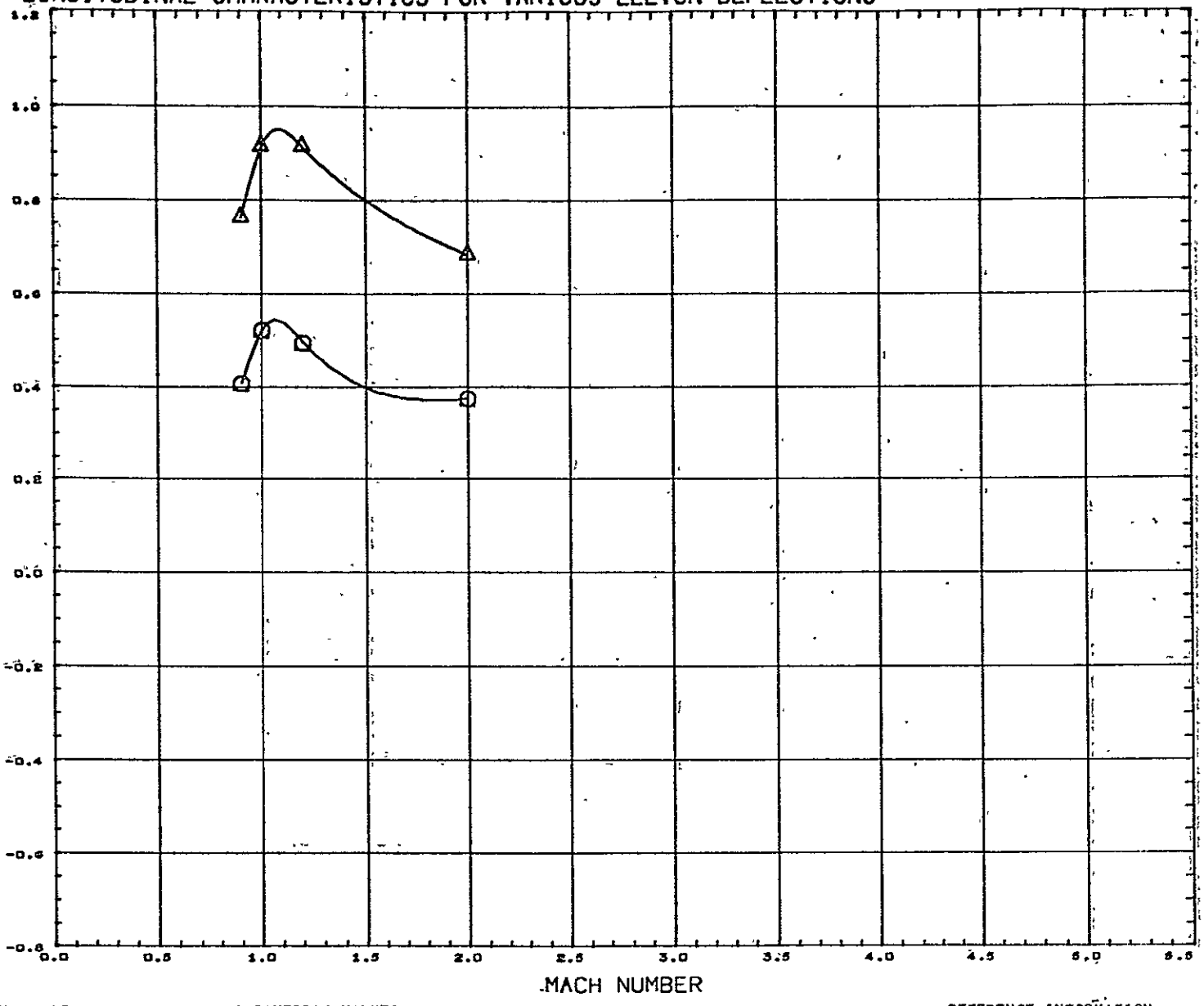
△	20.000	DER	- 20.000	DCL	0.000
		DCR	0.000	ELEVON	- 10.000
		CANARD	0.000	AILRON	10.000

DATA HIST. CODE HVR#E1

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

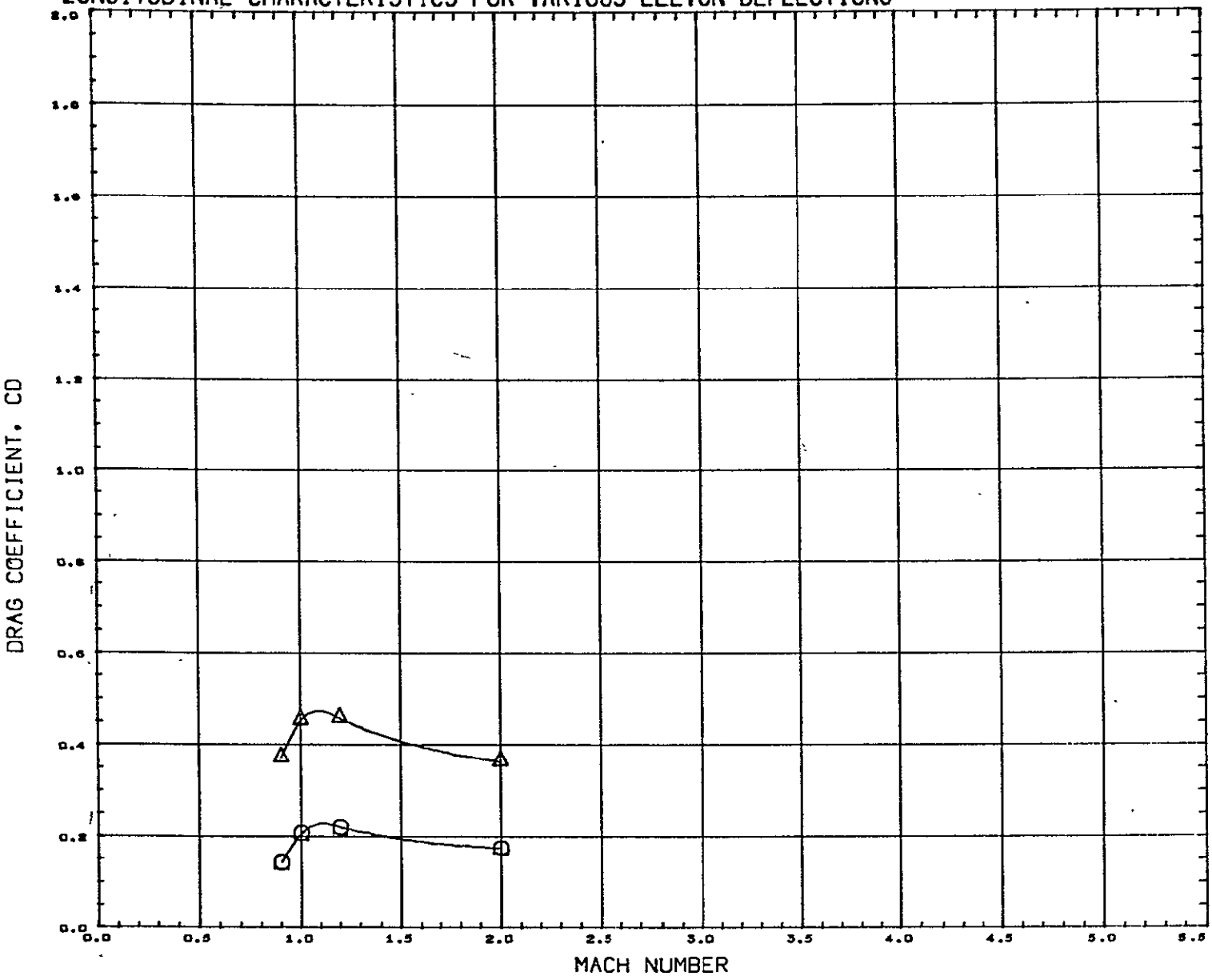
BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILERON	10.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE HVR*E1

REFERENCE INFORMATION

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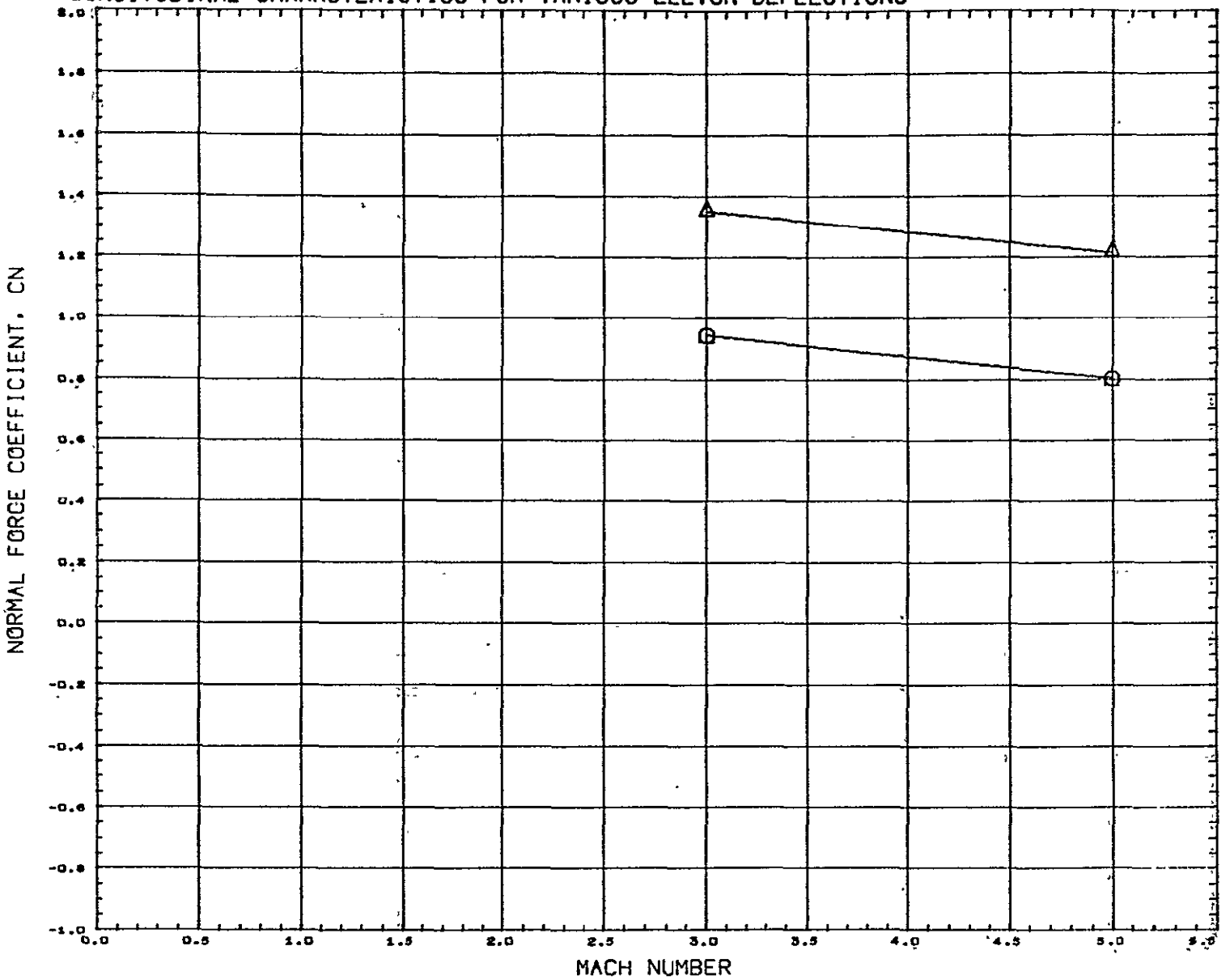
LREF	3.0950	IN.
BREF	6.0930	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



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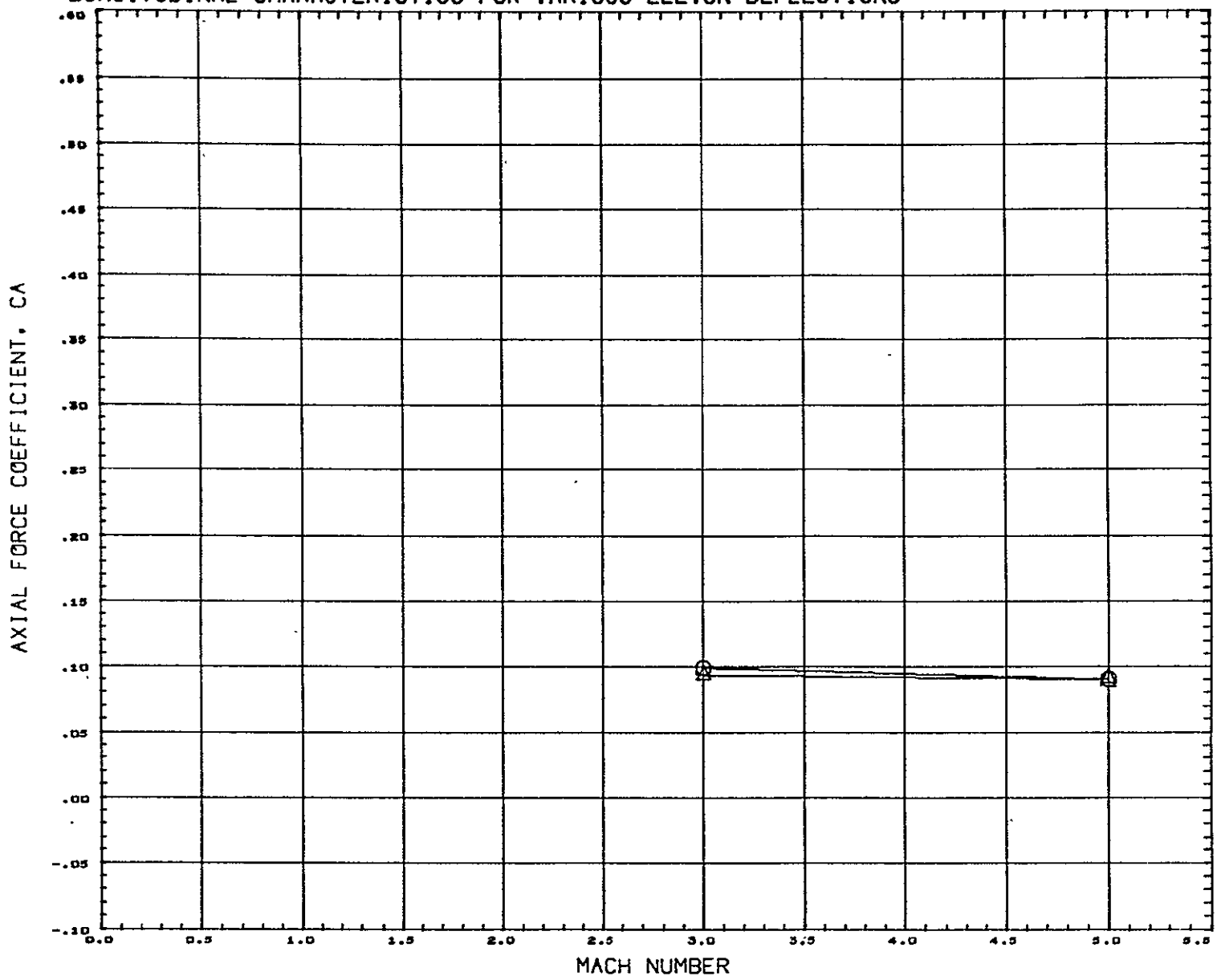
		CANARD	0.000	AILRON	10.000

DATA HIST. CODE 'MVR*E,I

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

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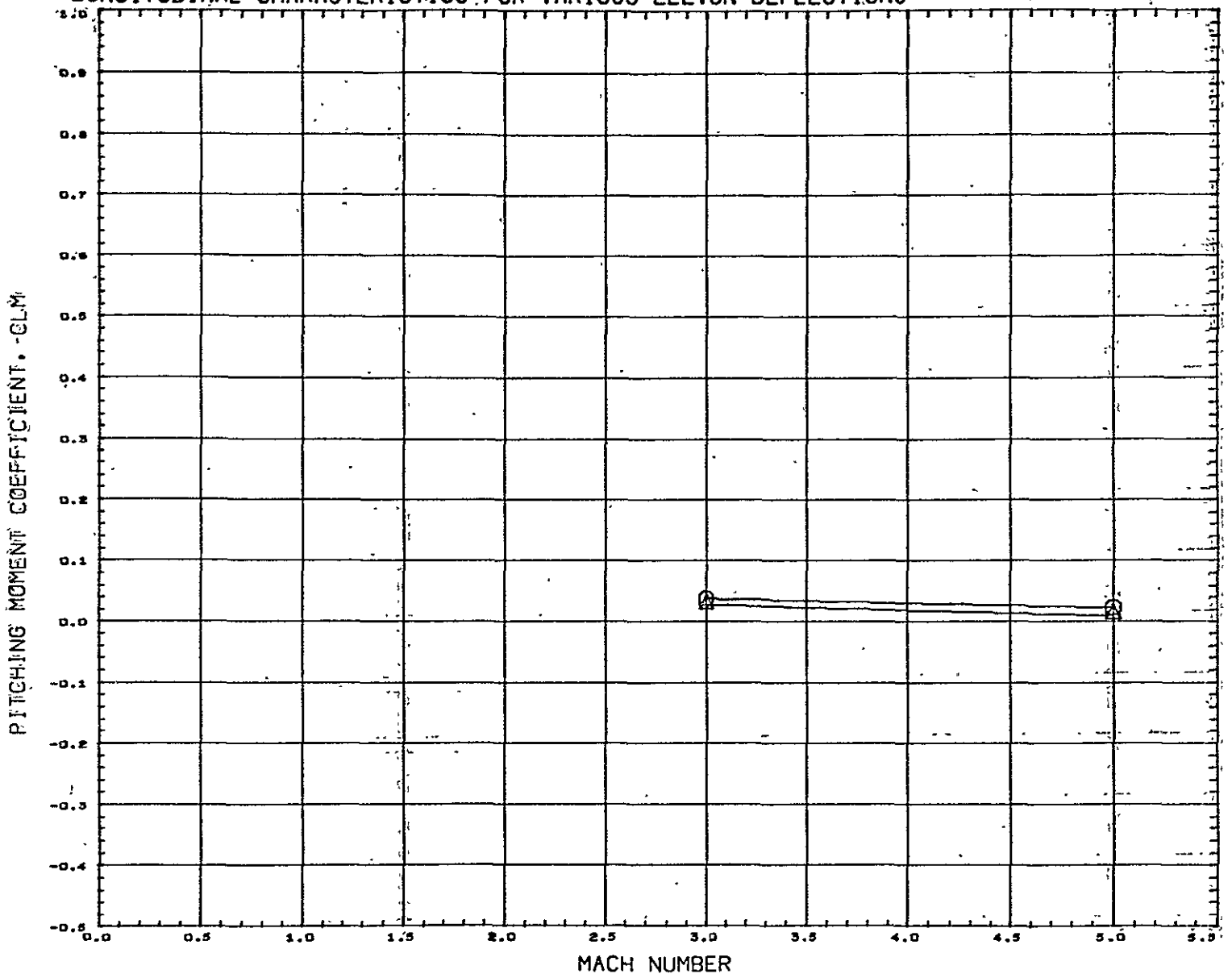
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE HVR*E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

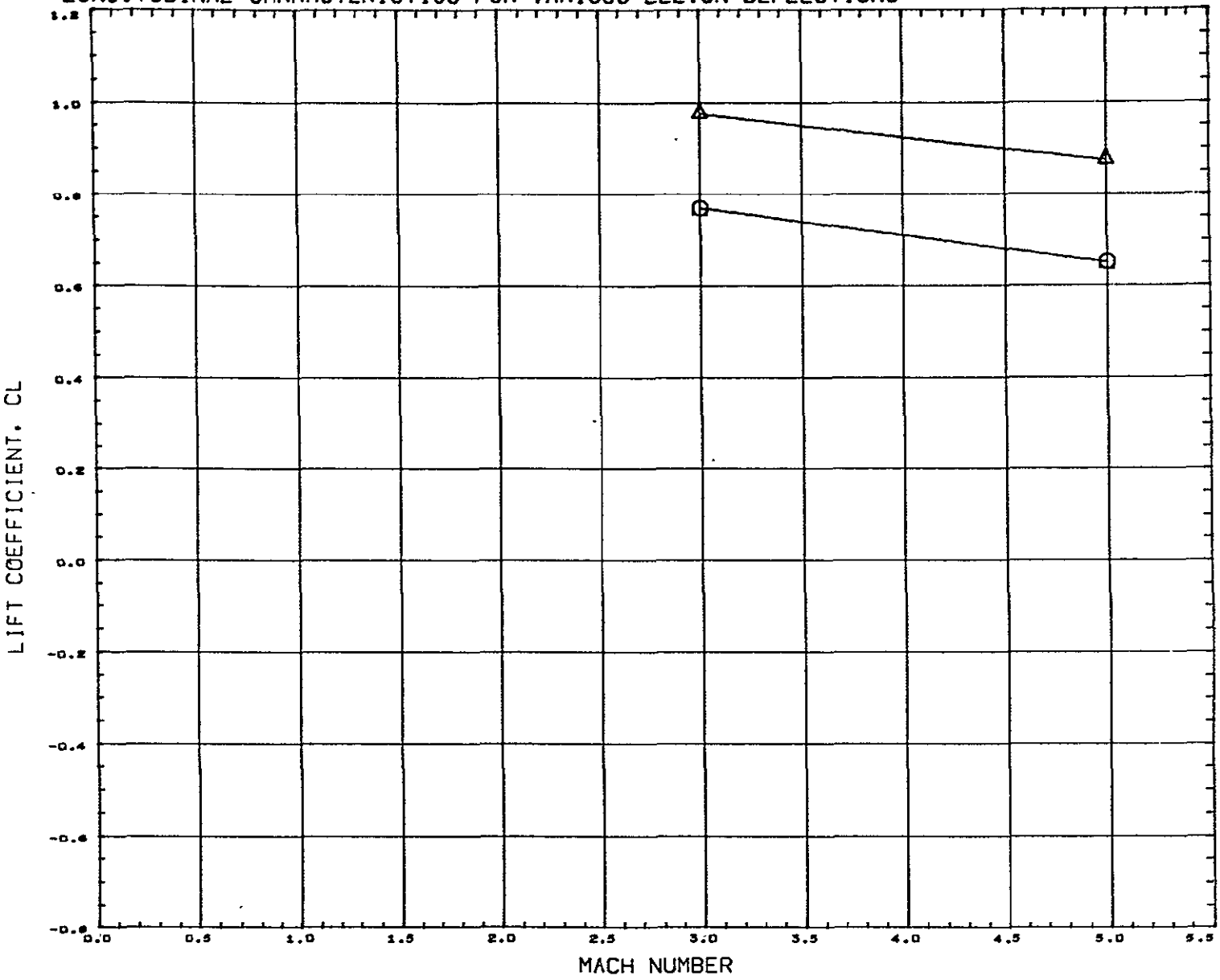
BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILERON	10.000

DATA HIST. CODE, HVR#E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

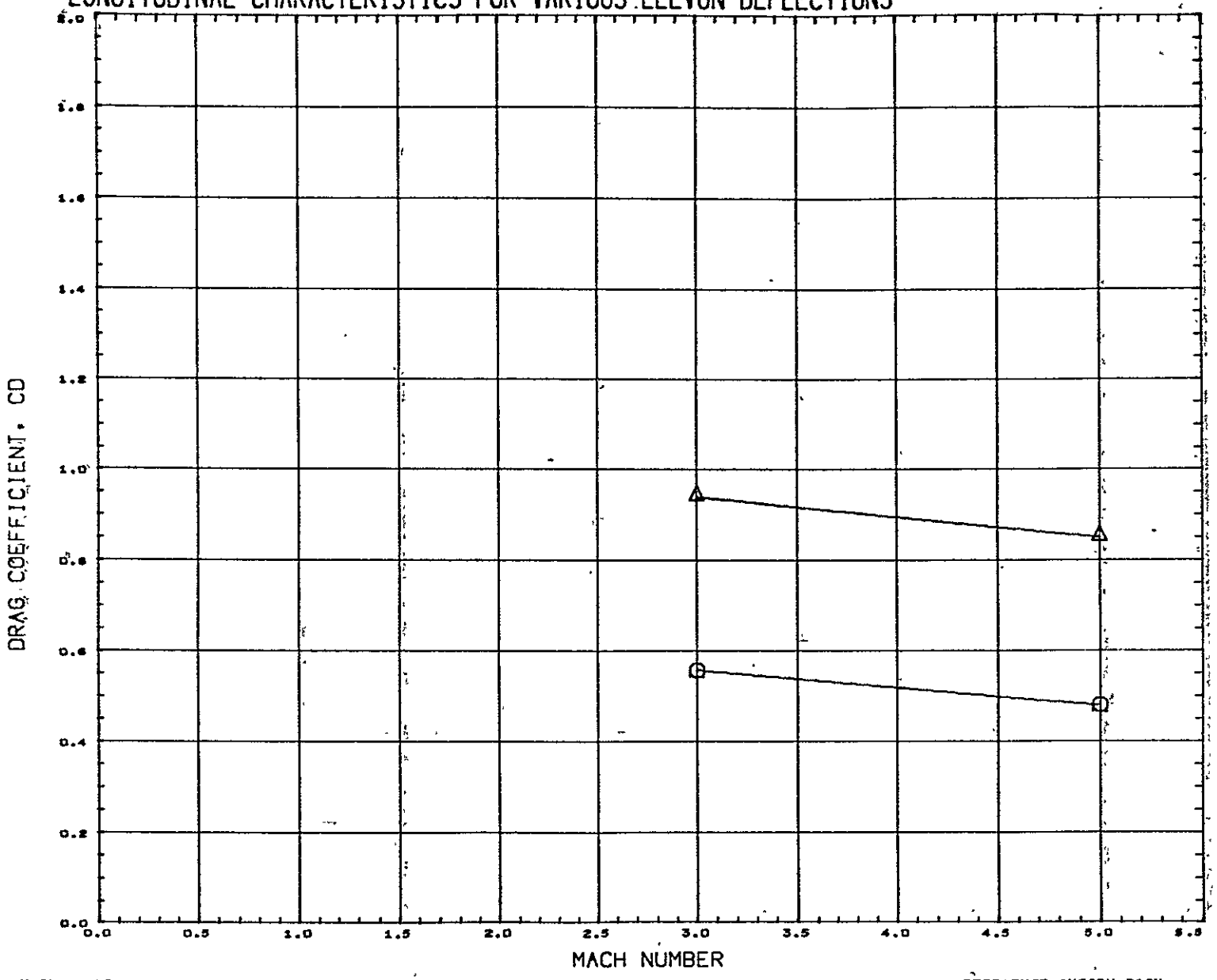
BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE MVR*E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

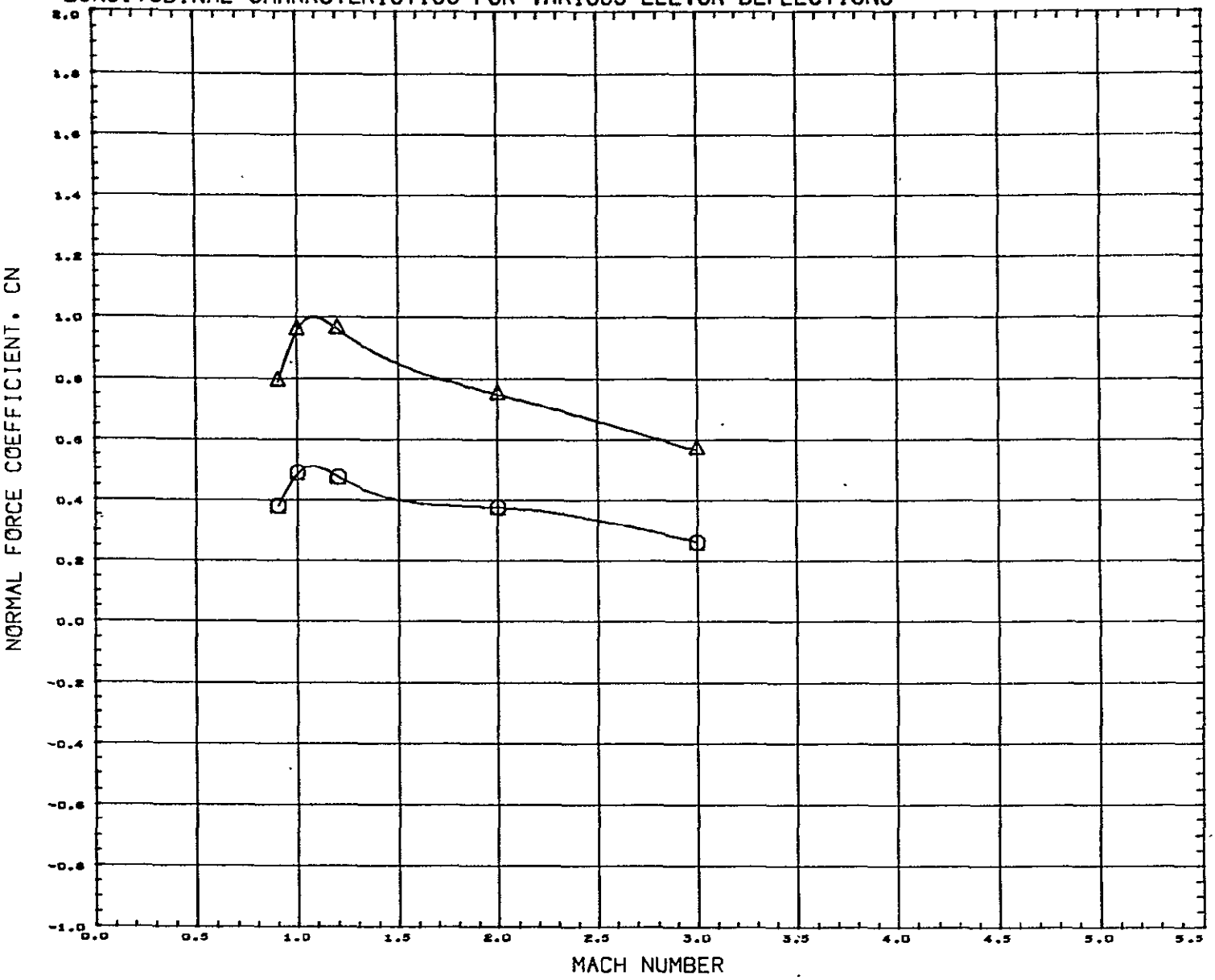
BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

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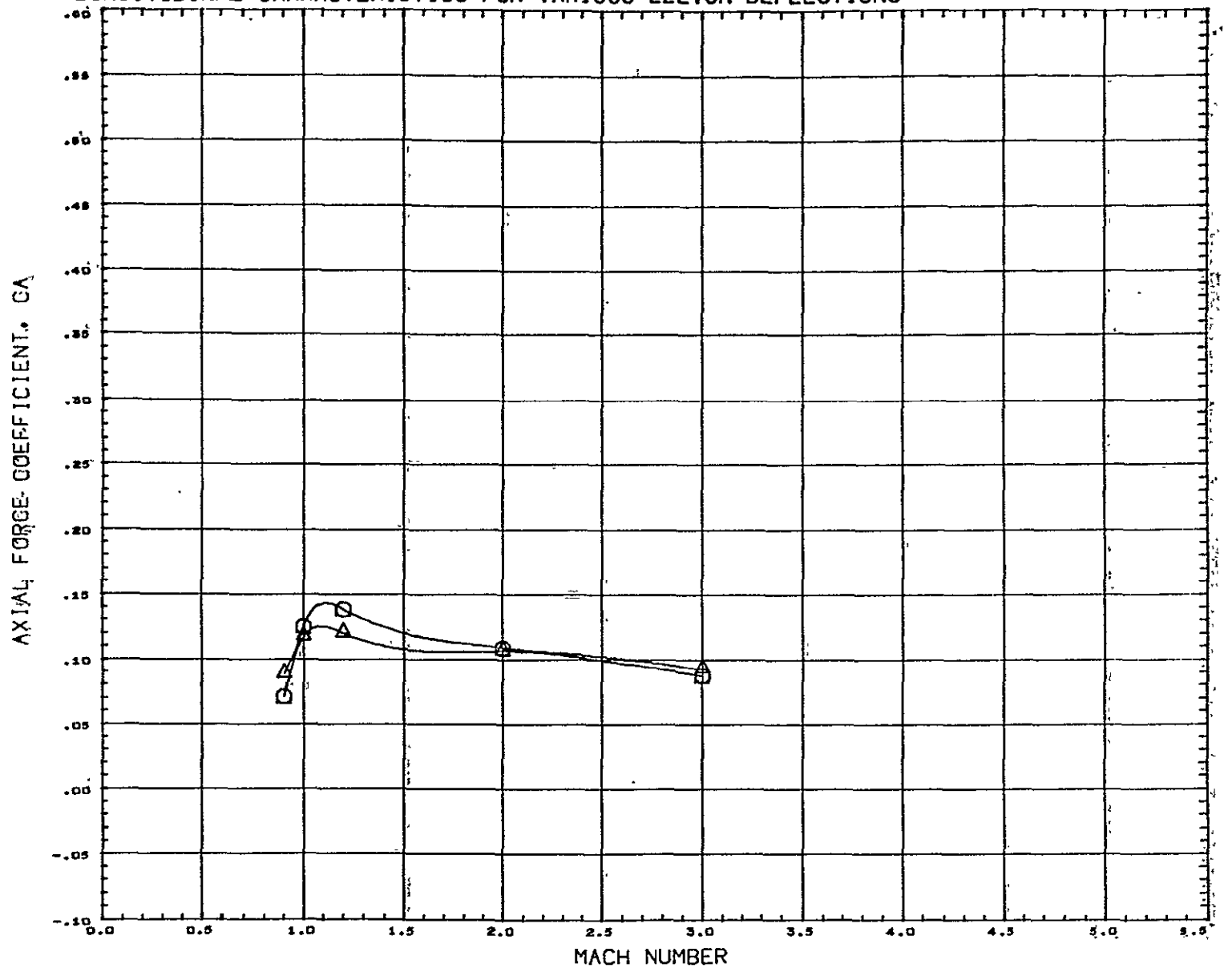
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
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△	20.000

PARAMETRIC VALUES

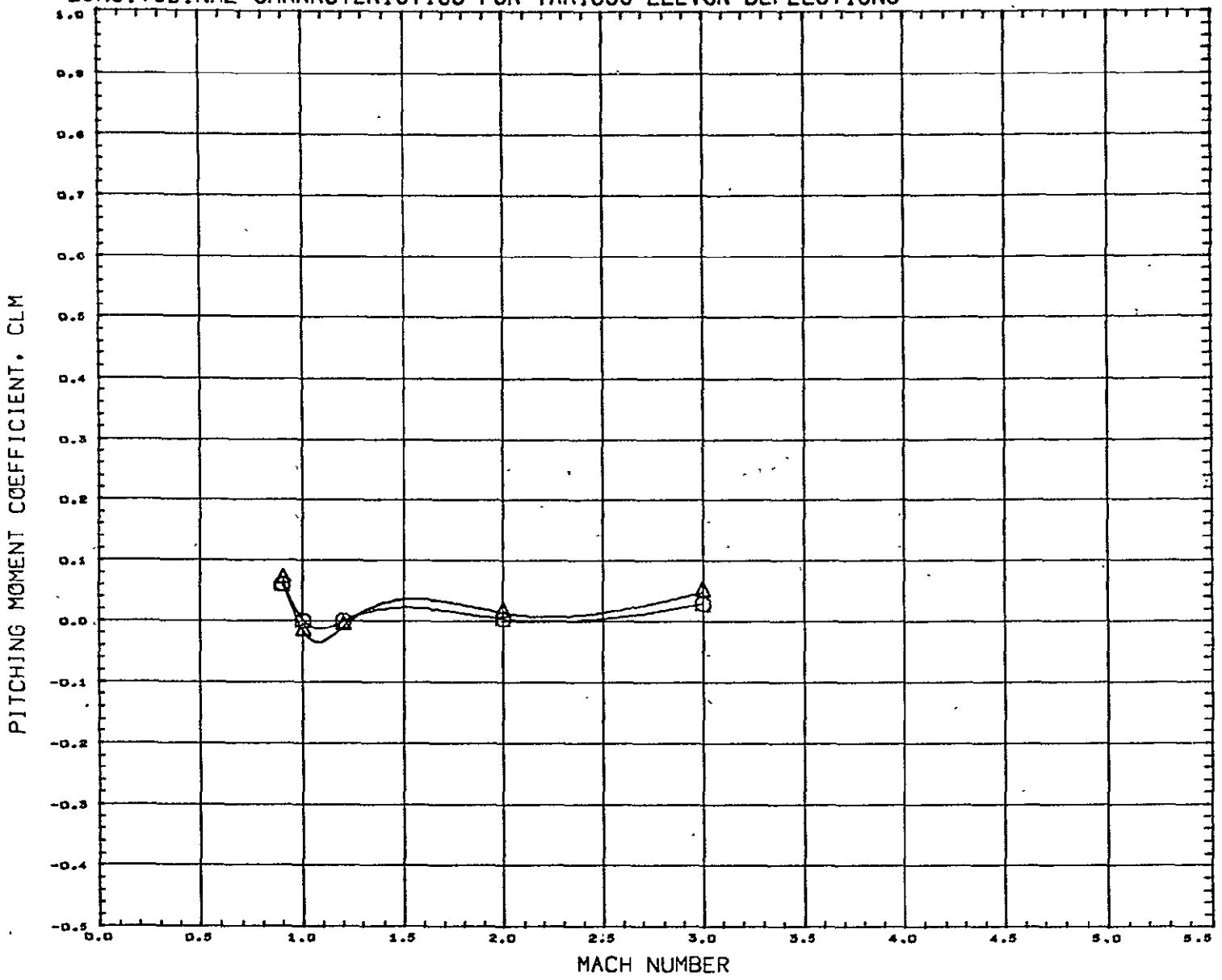
BETA	0.000	DEL	- 20.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILERON	0.000

DATA HIST. CODE MVR#EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

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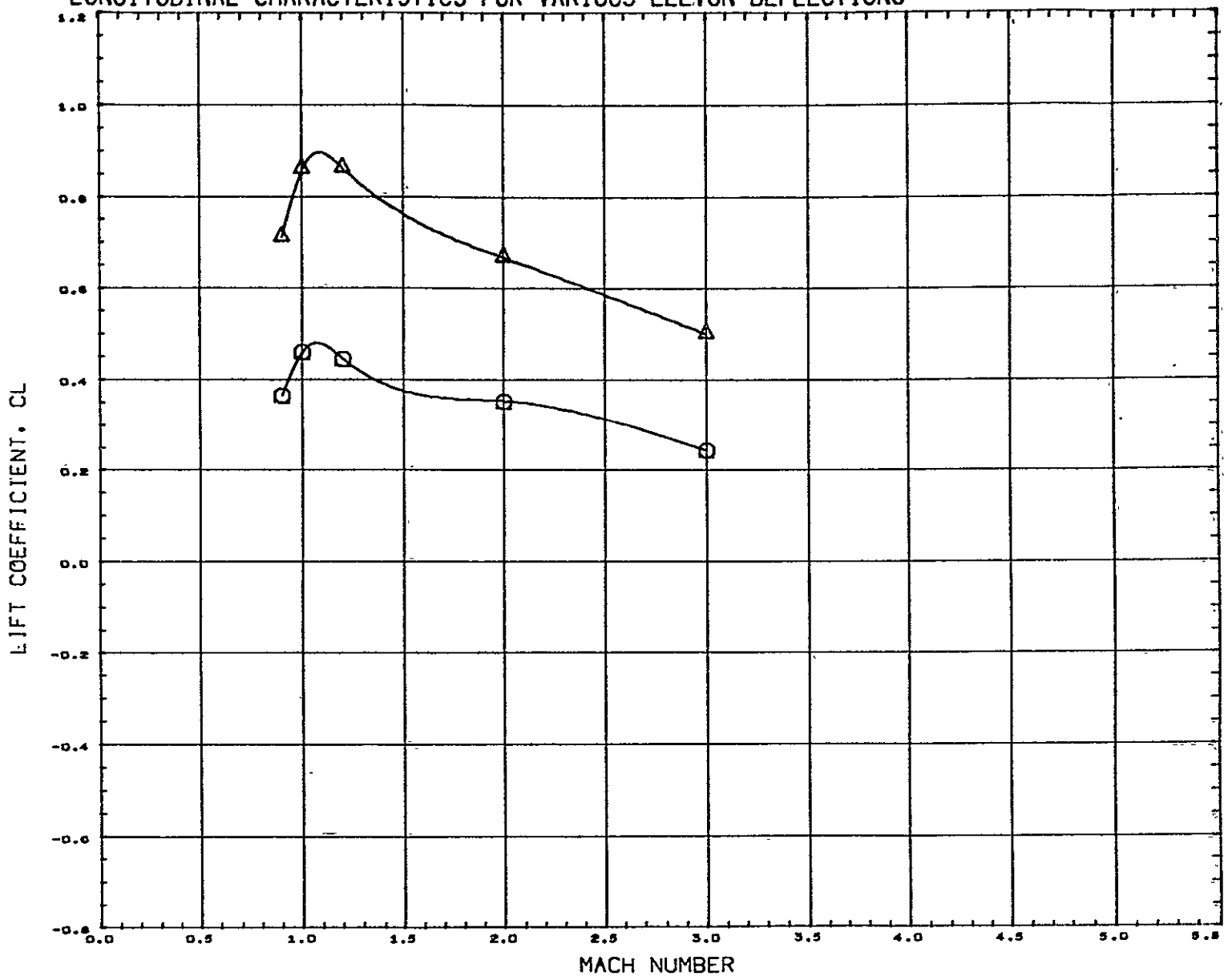
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



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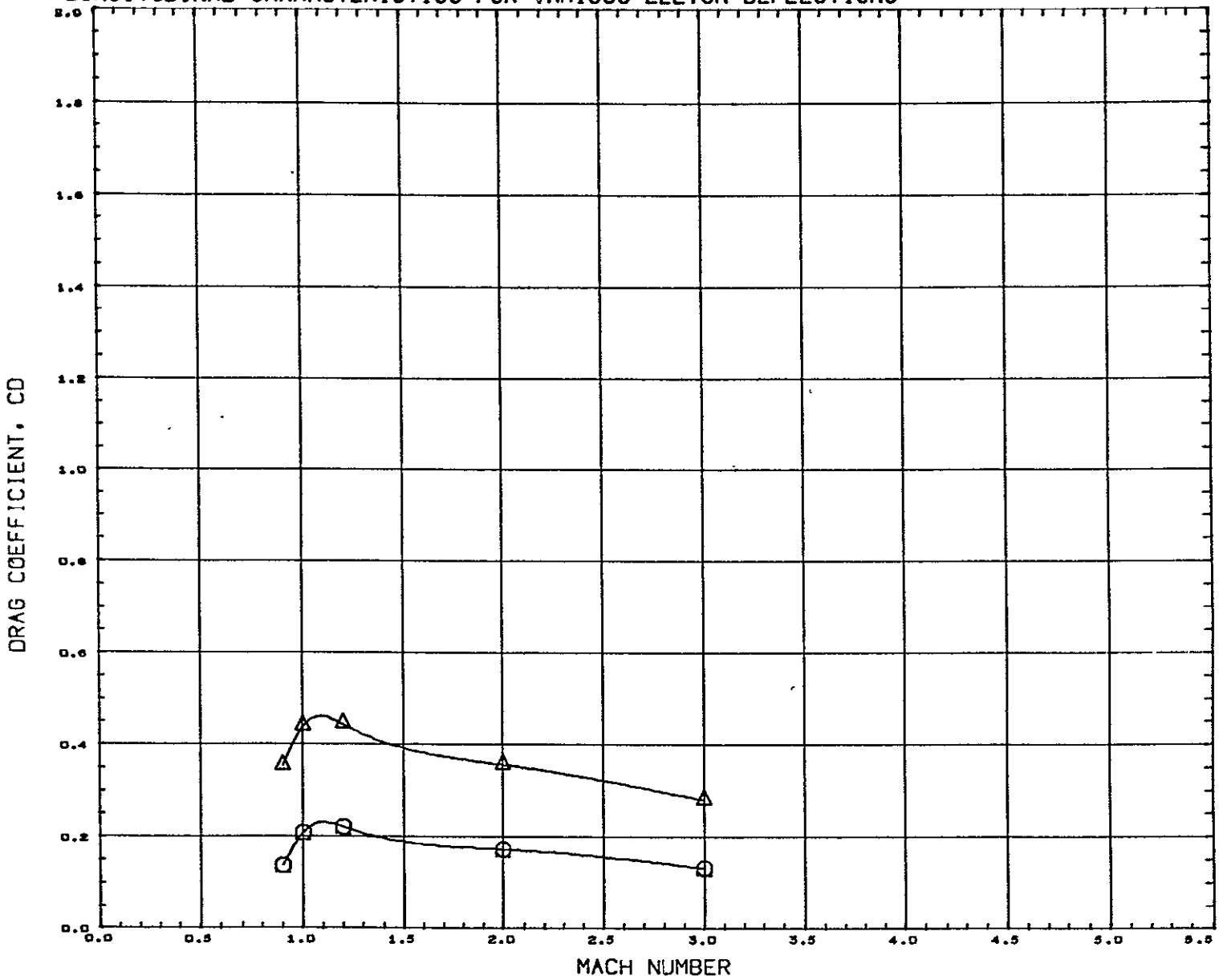
△	20.000	DER	- 20.000	DCL	0.000
		DCR	0.000	ELEVON	- 20.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
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△	20.000

PARAMETRIC VALUES

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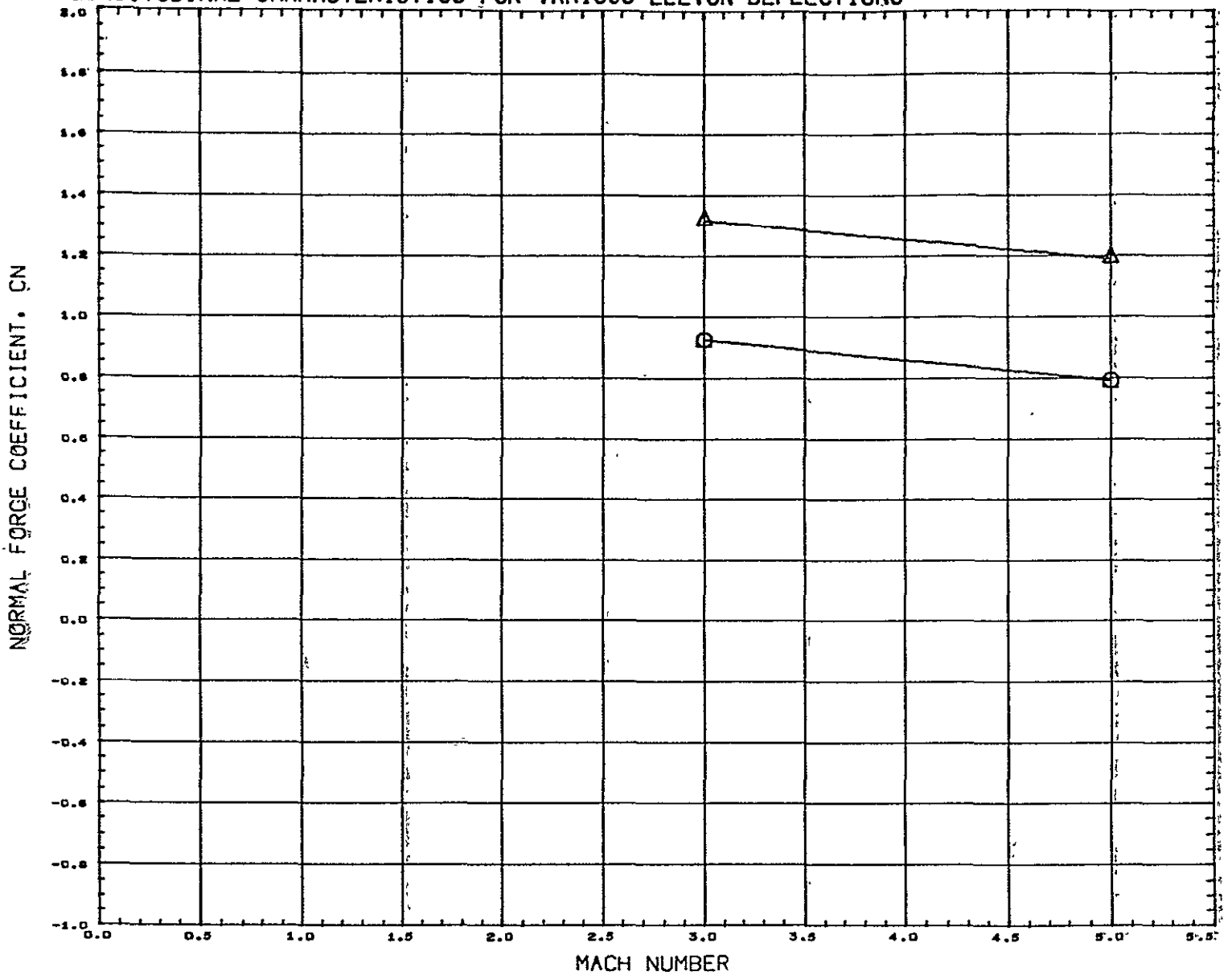
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
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△	40.000

PARAMETRIC VALUES

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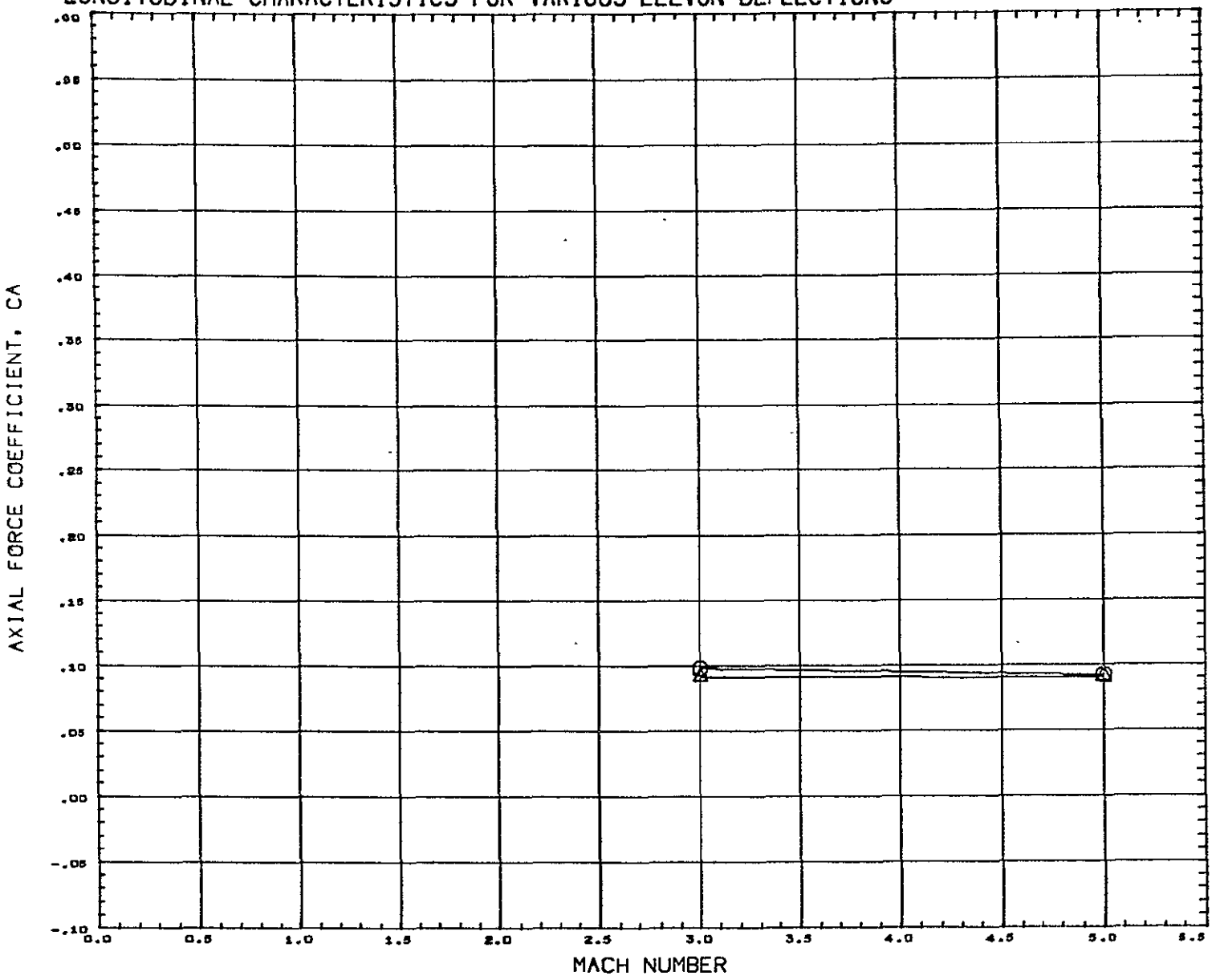
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ. IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



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△	40.000

PARAMETRIC VALUES

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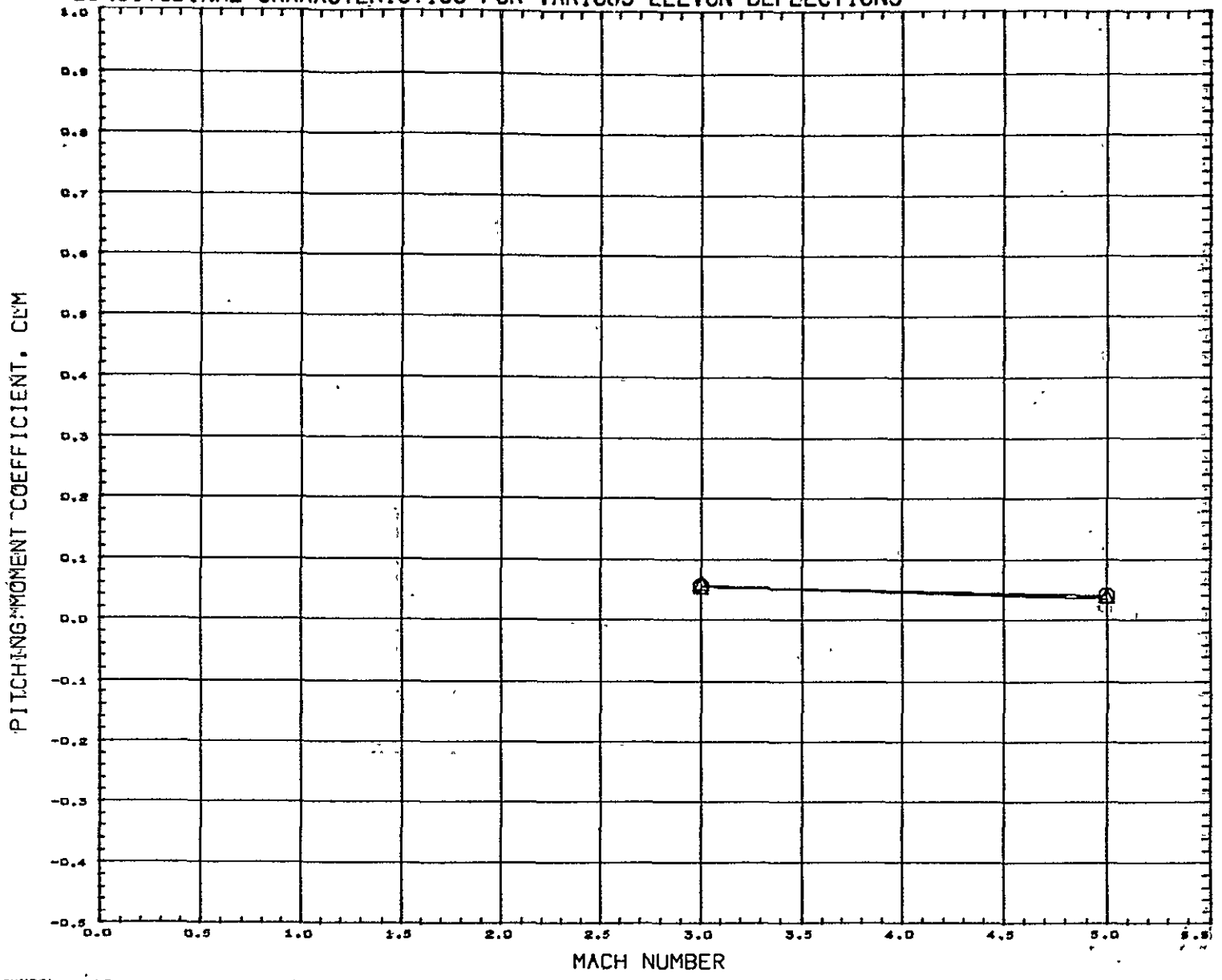
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



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△	40.000

PARAMETRIC VALUES

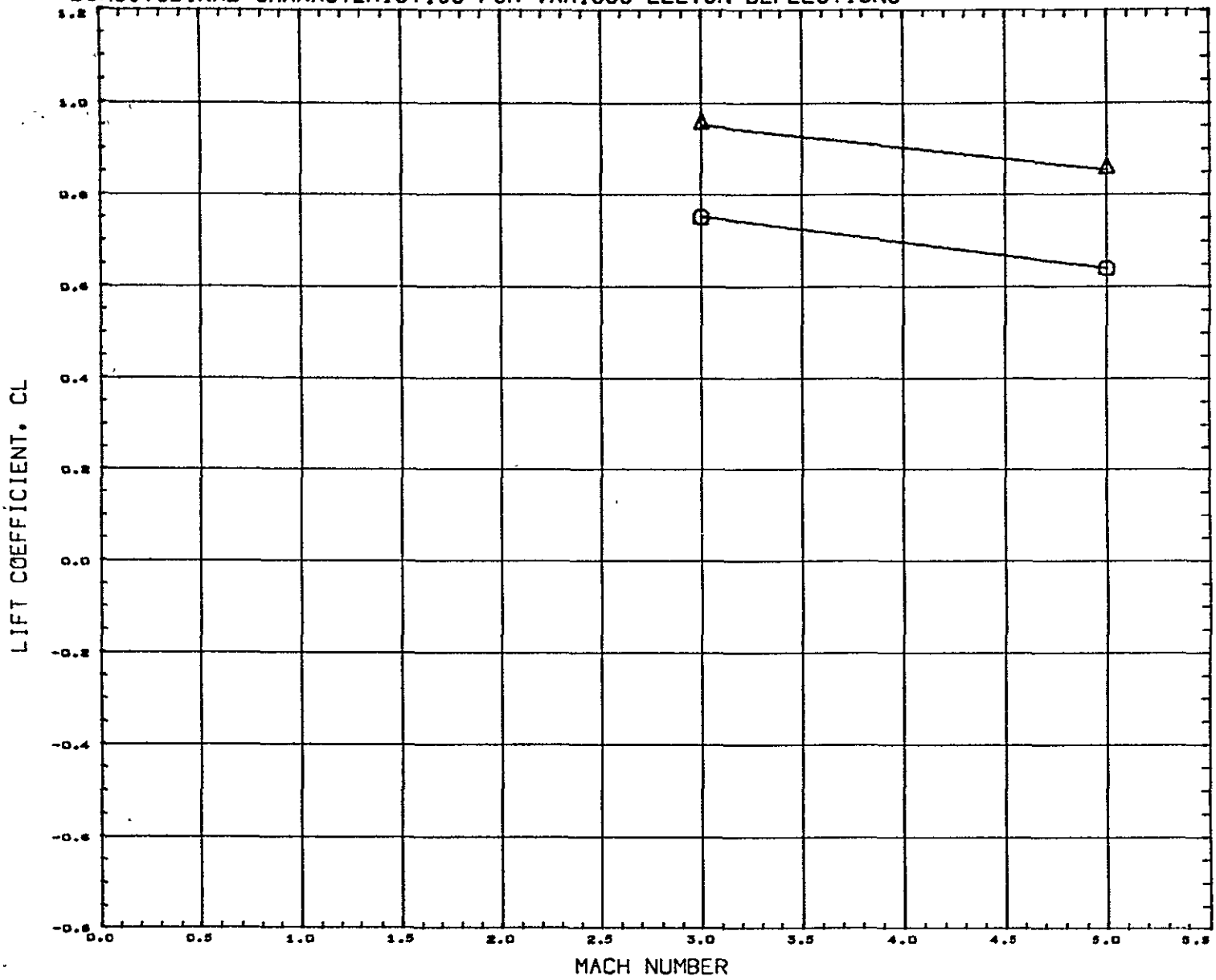
BETA	0.000	DEL	- 20.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
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△	40.000	DER	- 20.000	DCL	0.000
		DCR	0.000	ELEVON	- 20.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
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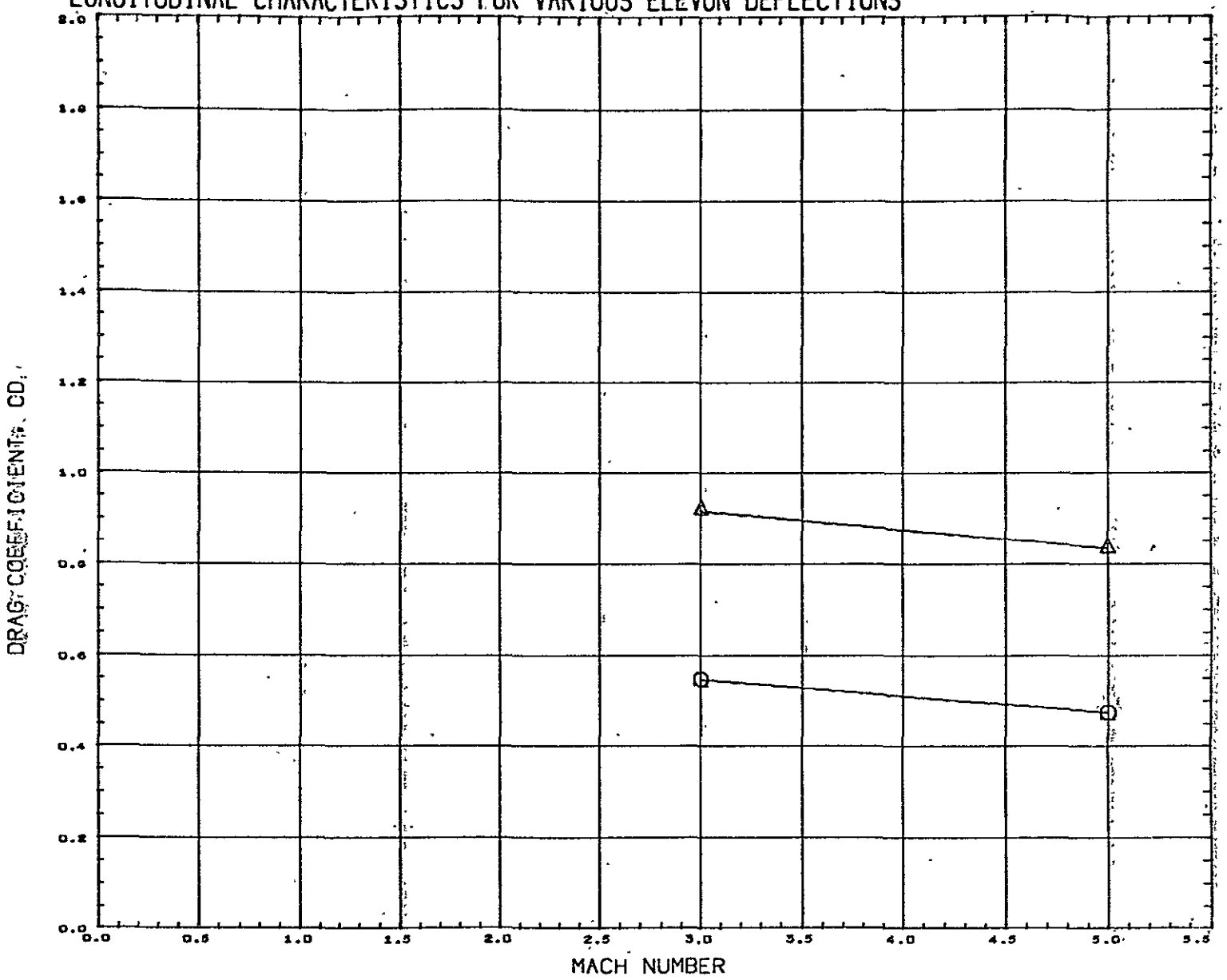
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

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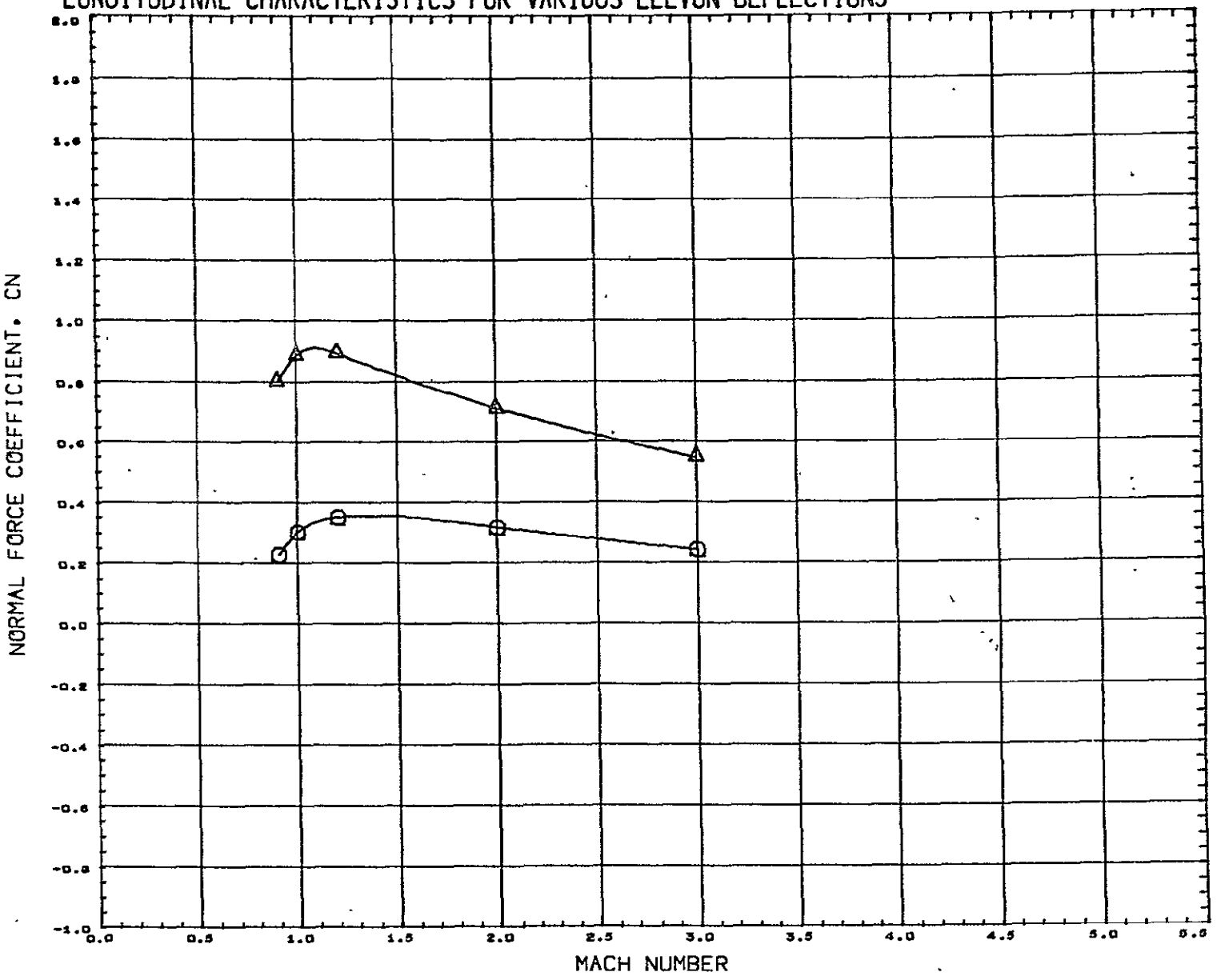
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR&EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
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△	20.000

PARAMETRIC VALUES

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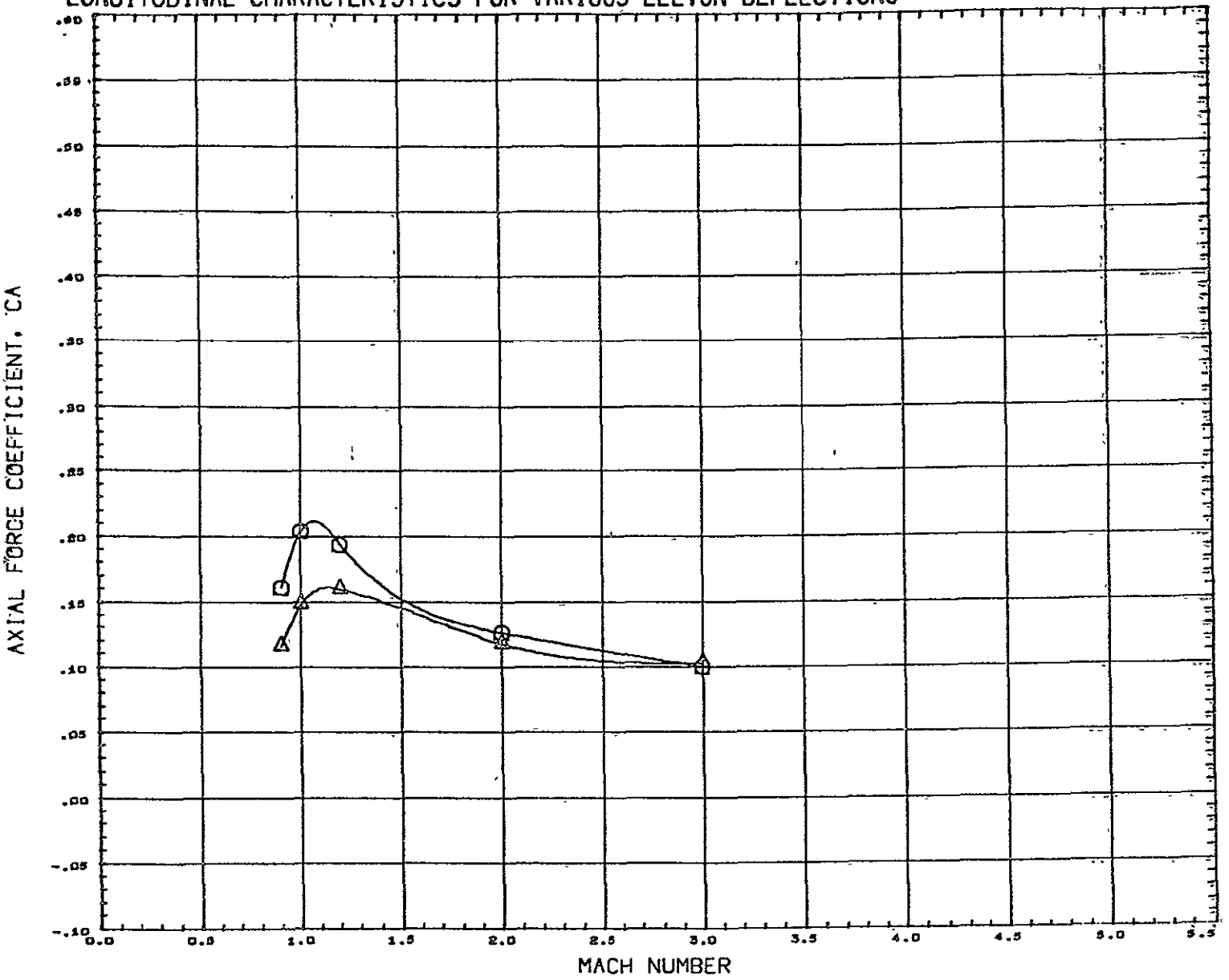
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR#EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



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PARAMETRIC VALUES

BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1

REFERENCE INFORMATION

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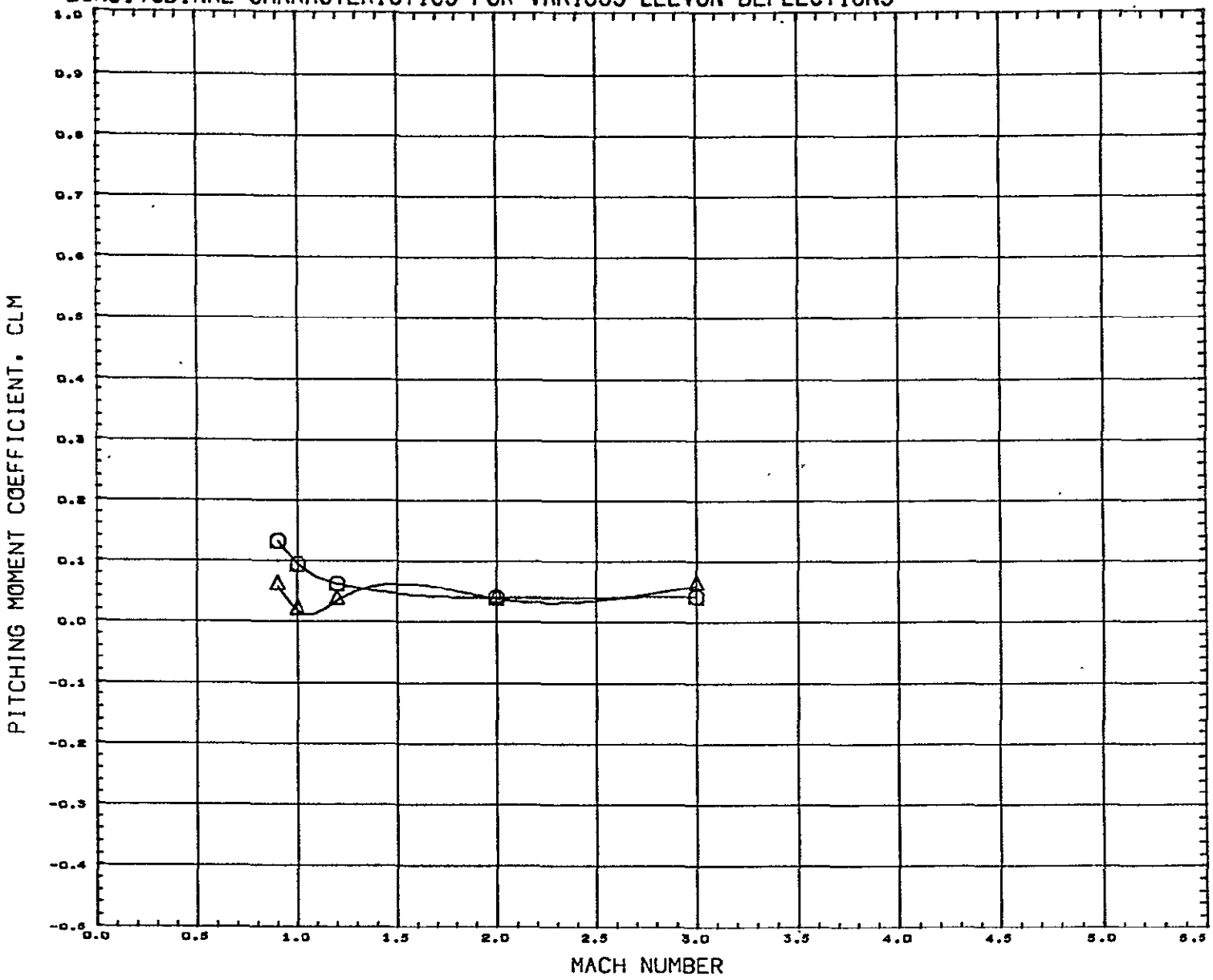
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



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△	20.000

PARAMETRIC VALUES

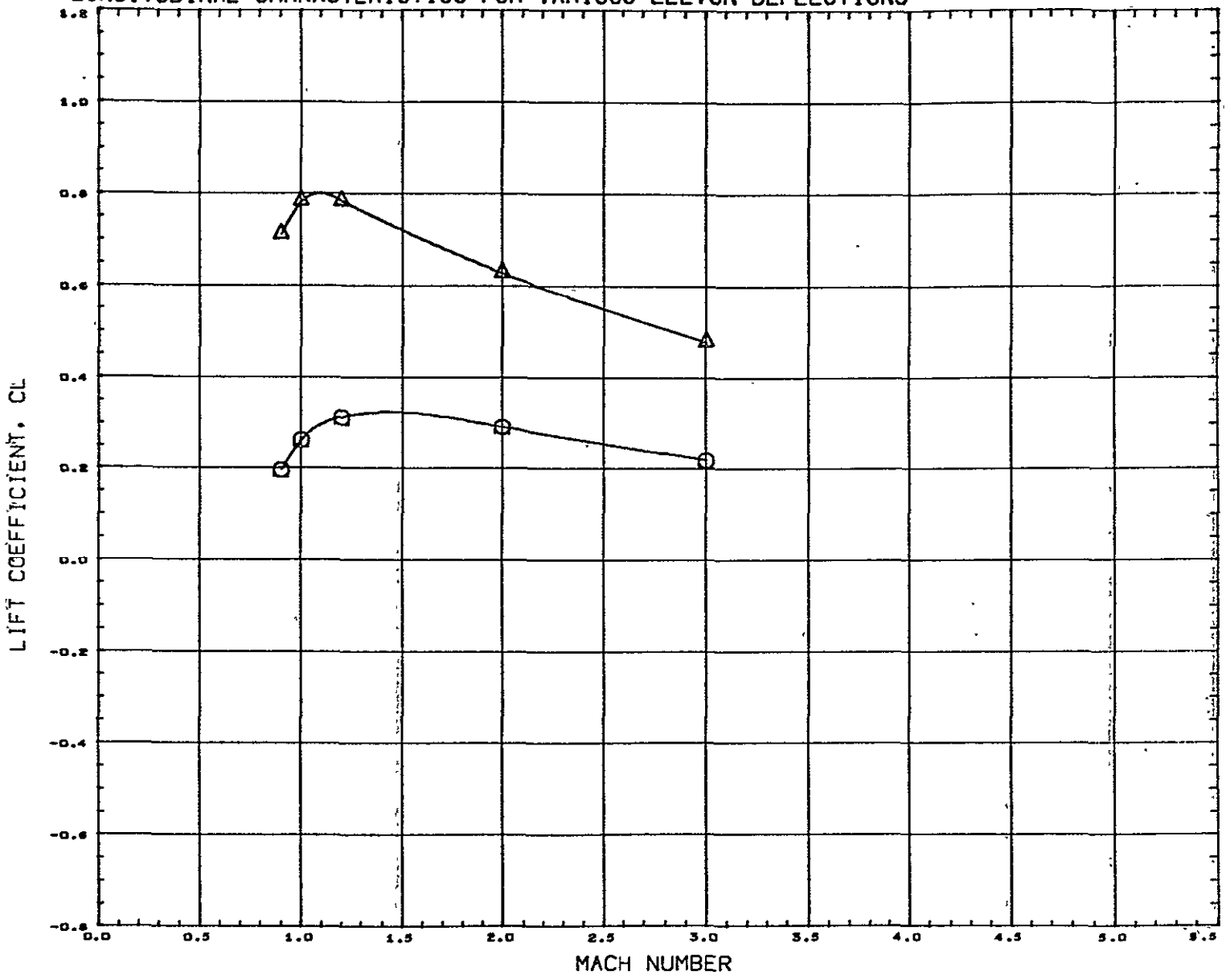
BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



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△	20.000

PARAMETRIC VALUES

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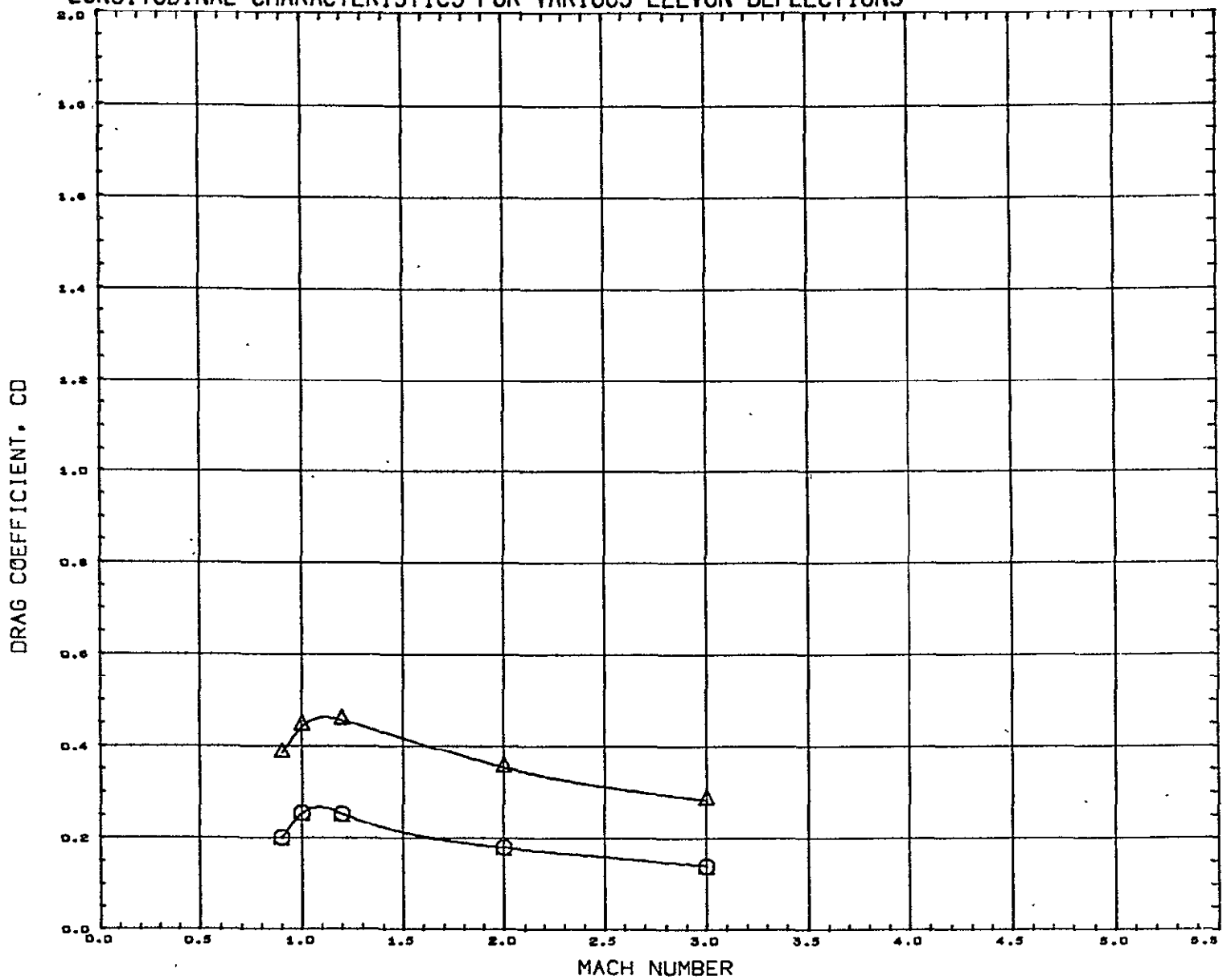
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
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PARAMETRIC VALUES

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DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E1

REFERENCE INFORMATION

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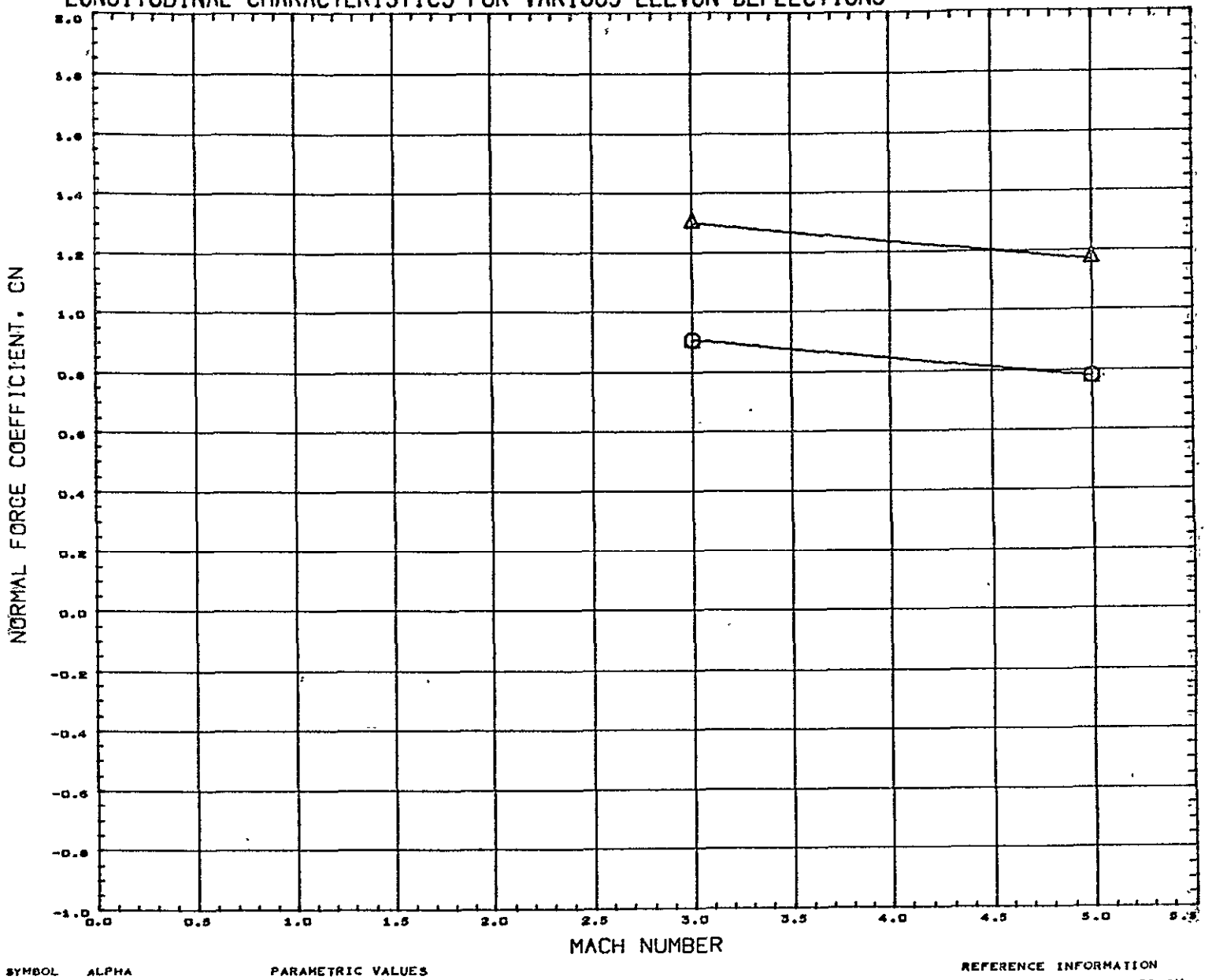
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



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PARAMETRIC VALUES

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CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR#E1

REFERENCE INFORMATION

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XMRP	6.7100	IN.
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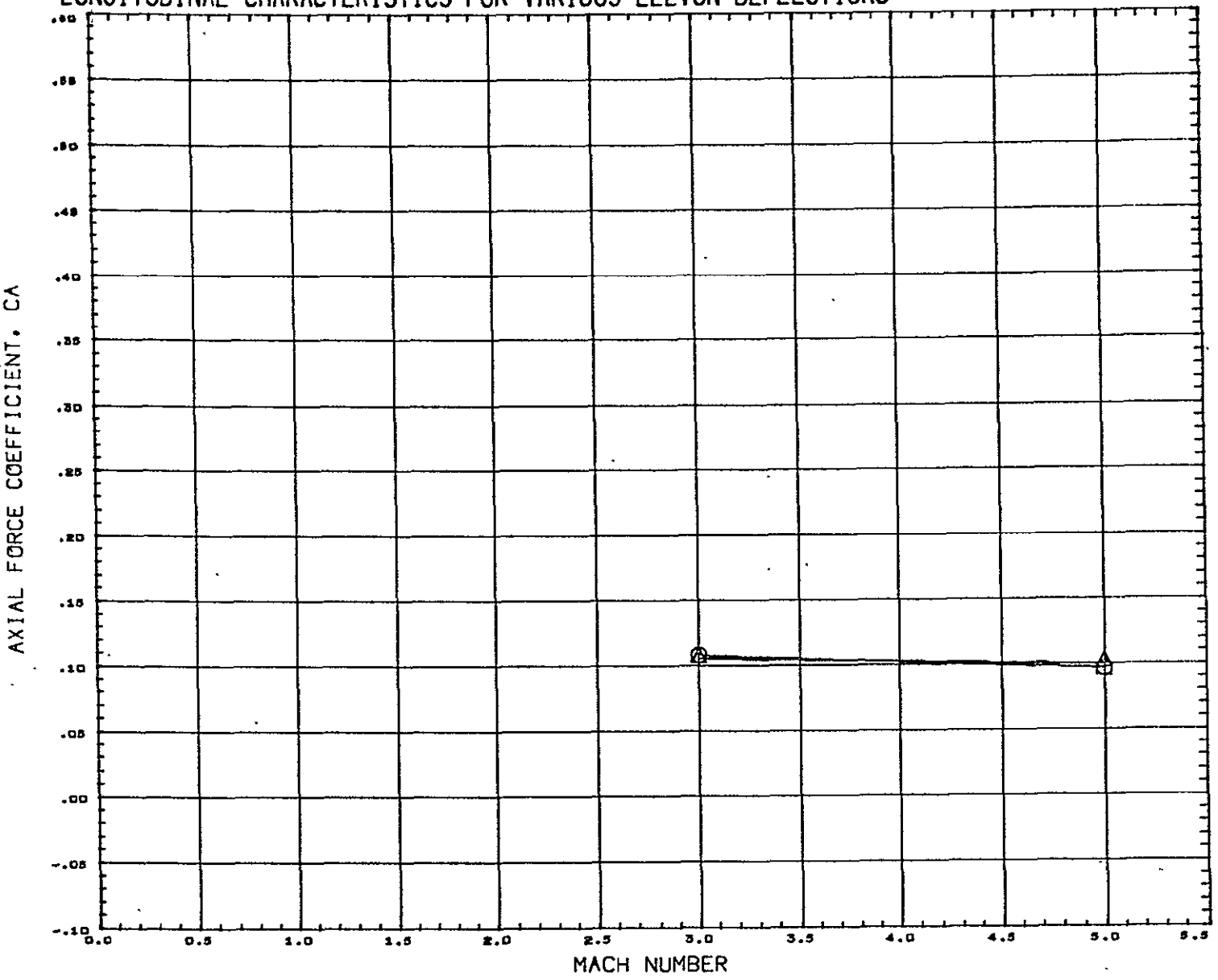
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



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PARAMETRIC VALUES

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DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E1

REFERENCE INFORMATION

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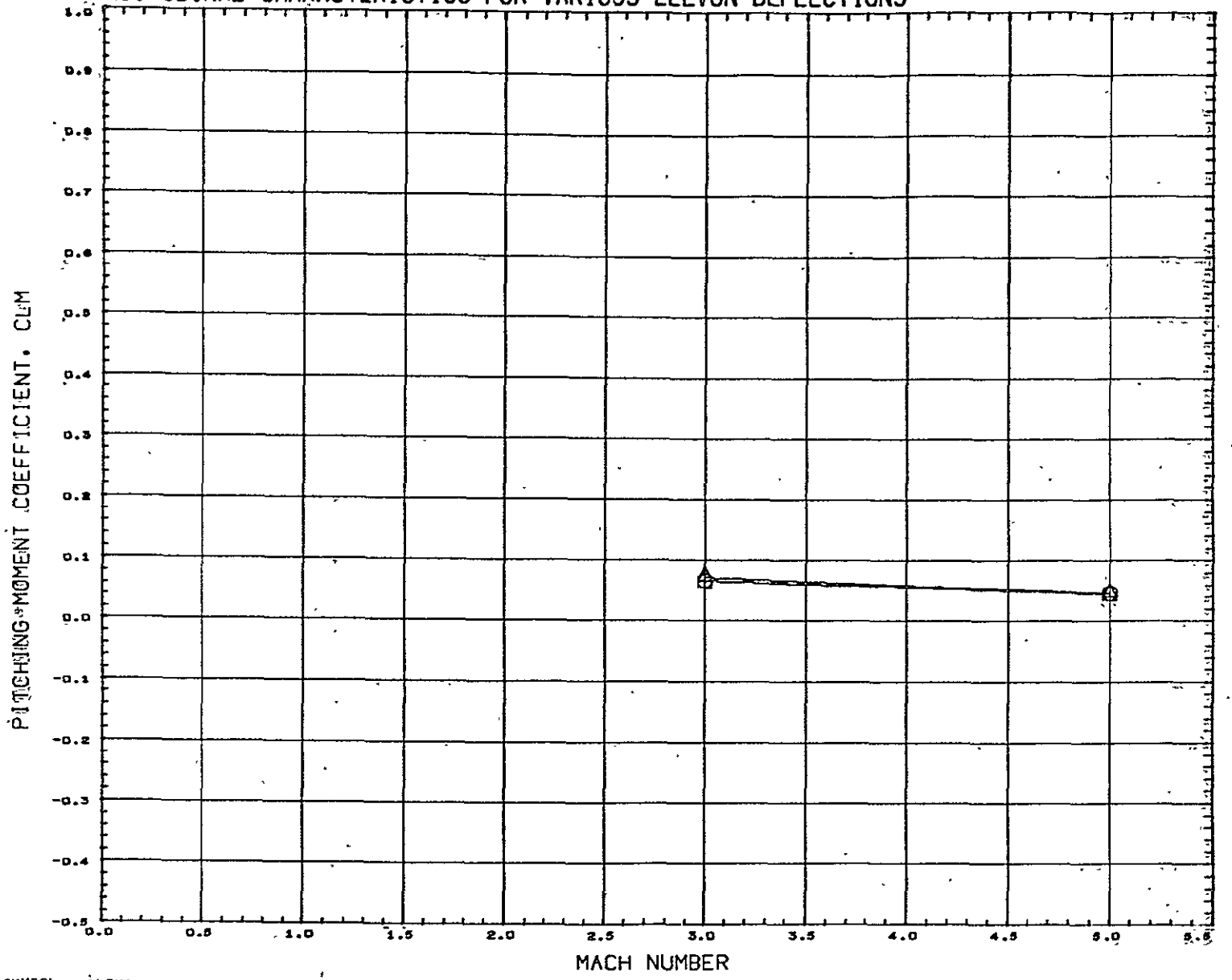
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



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PARAMETRIC VALUES

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DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILERON	0.000

DATA HIST. CODE MVR*E1

REFERENCE INFORMATION

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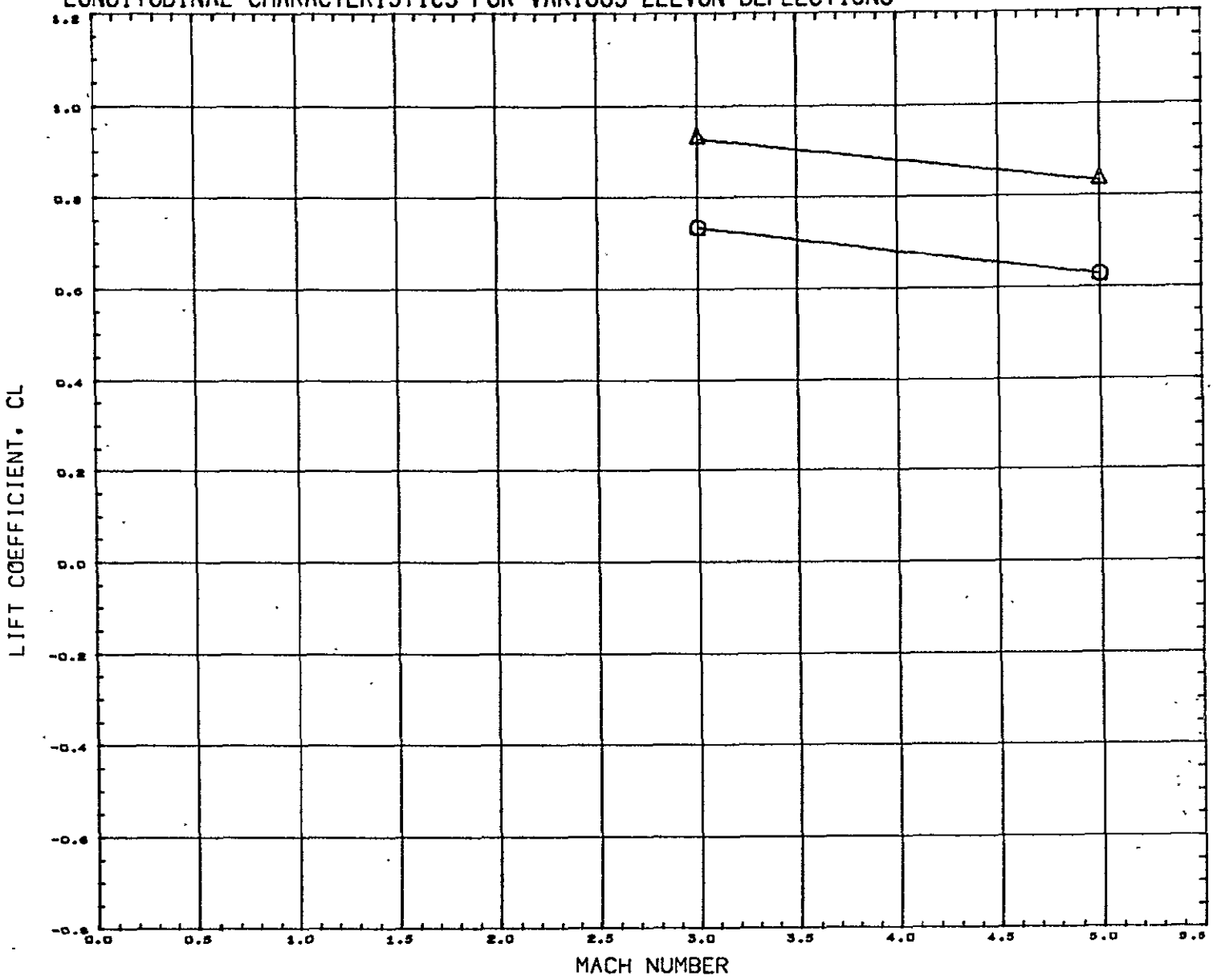
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



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		DCR	0.000	ELEVON	- 60.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION		
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XMRP	6.7100	IN.
YMRP	0.0000	IN.
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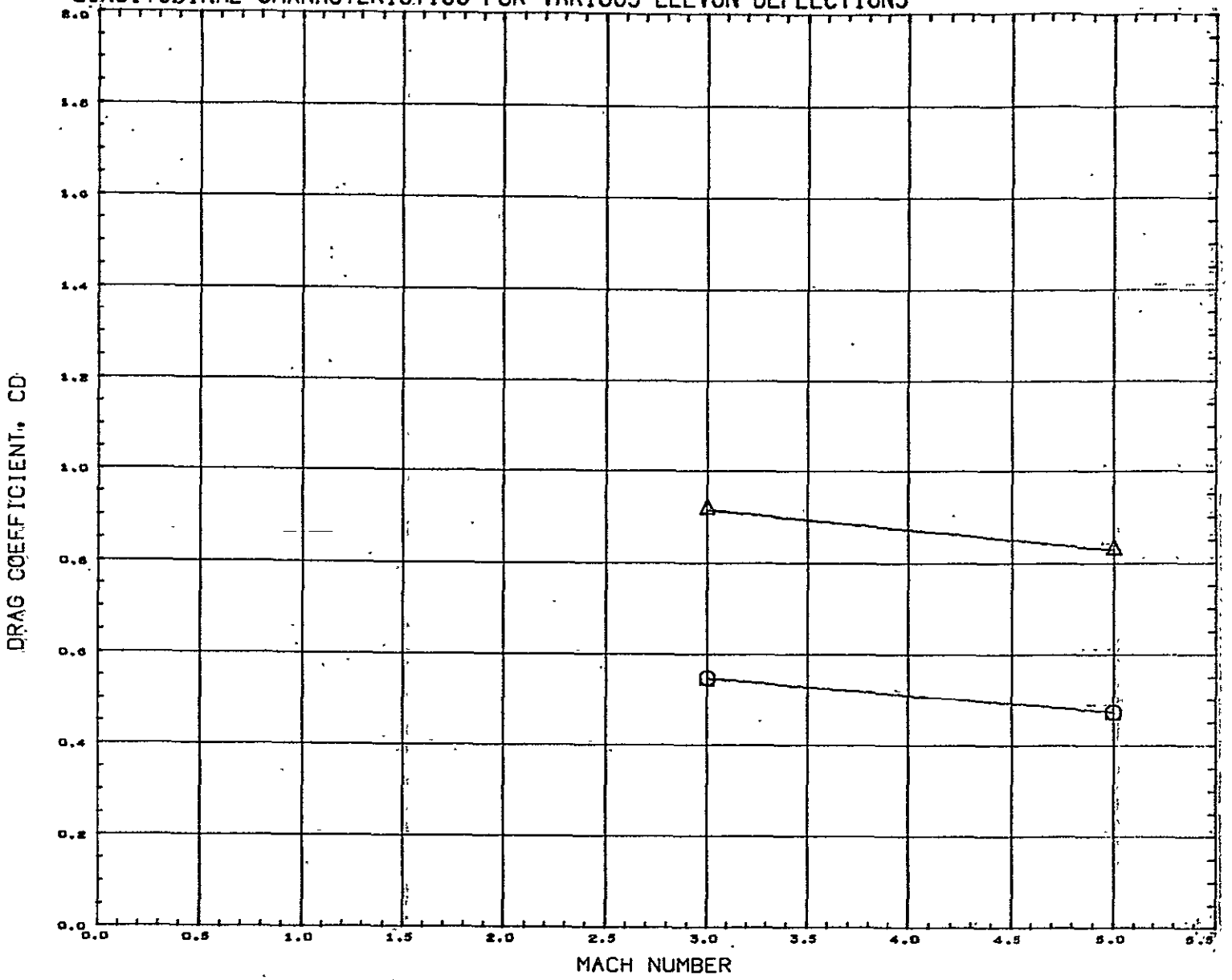
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
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PARAMETRIC VALUES

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DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE, MVR*EI

REFERENCE INFORMATION

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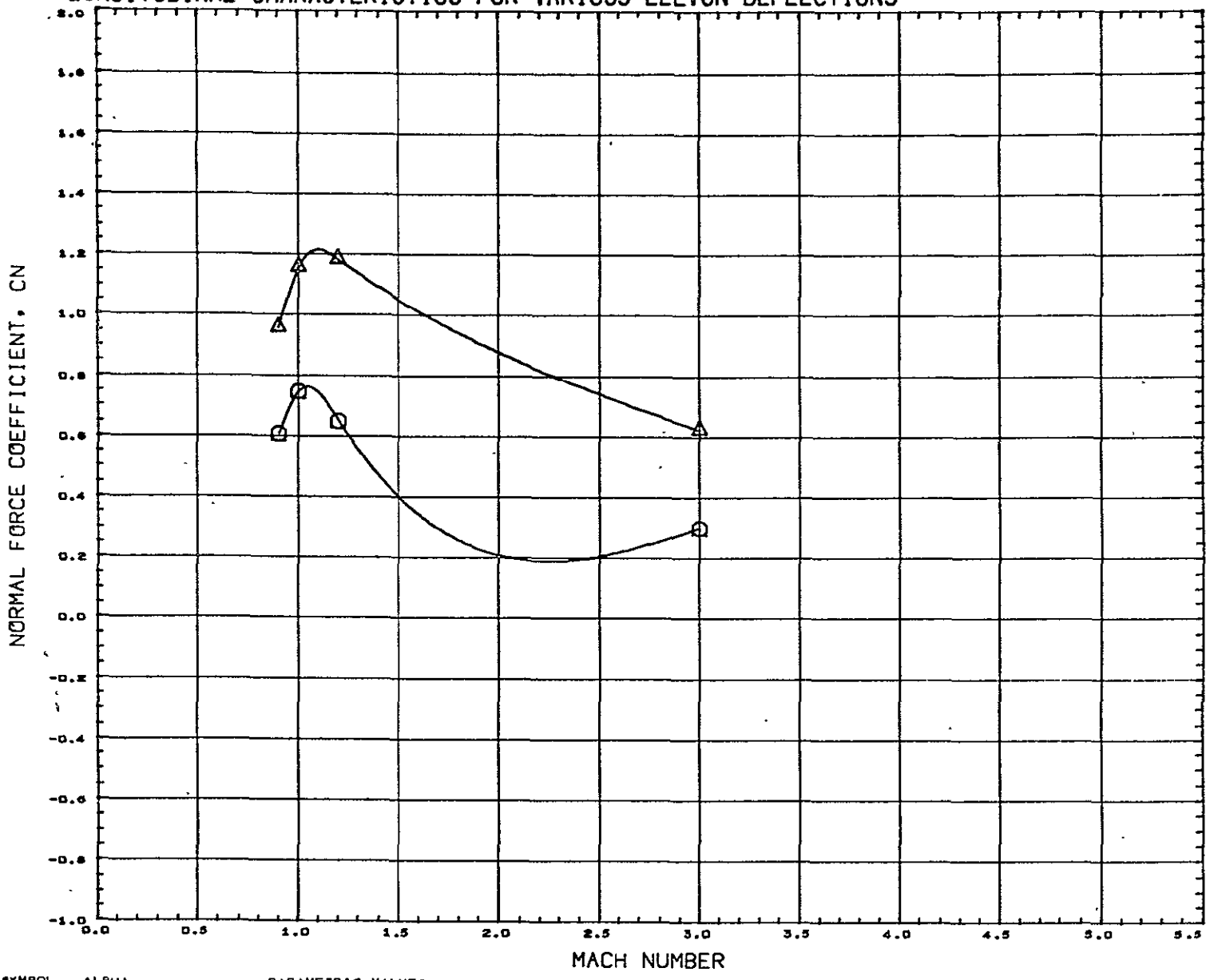
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
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PARAMETRIC VALUES

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DER	10.000	DCL	0.000
DCR	0.000	ELEVON	10.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E1

REFERENCE INFORMATION

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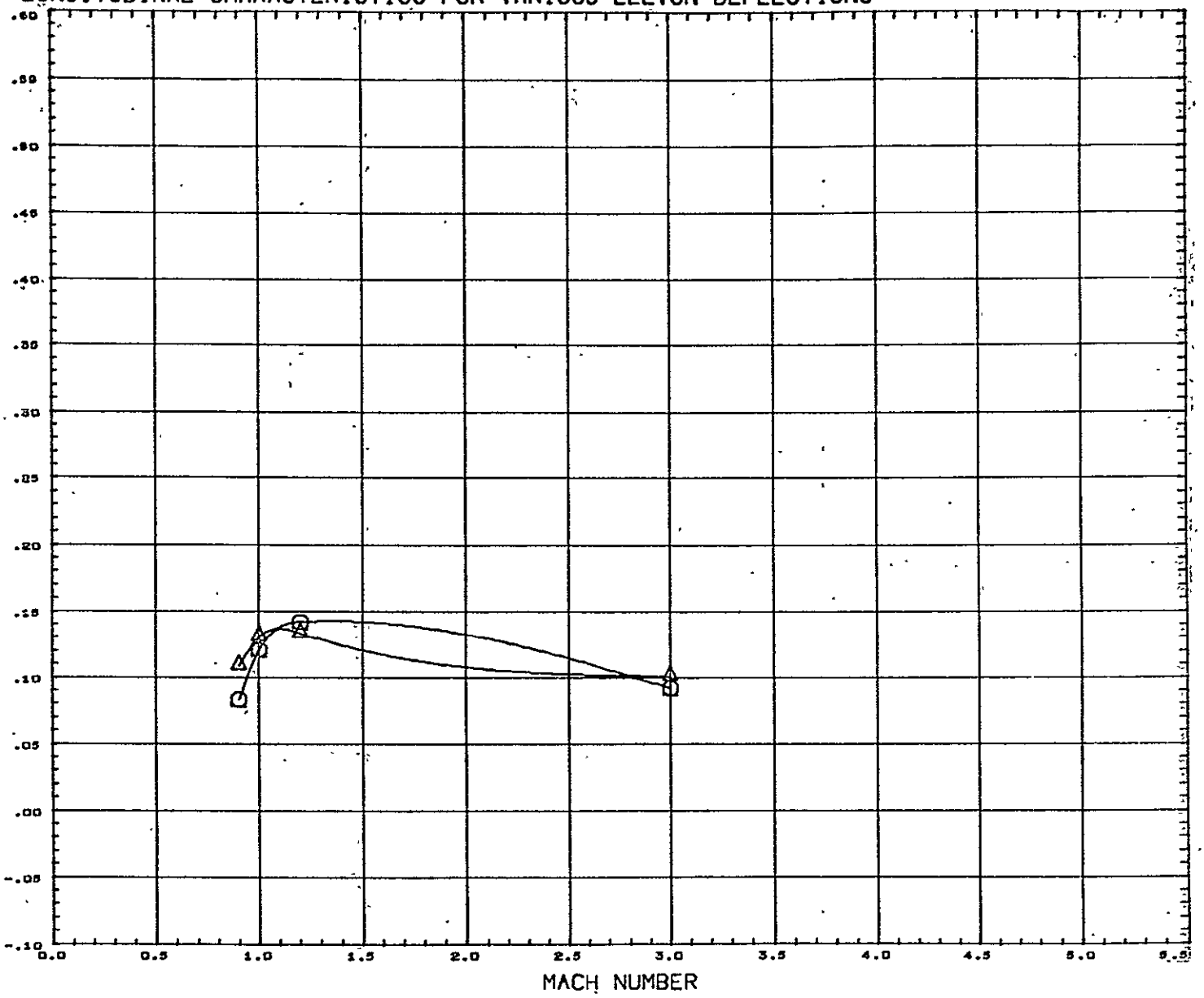
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
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PARAMETRIC VALUES

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DER	10.000	DCL	0.000
DCR	0.000	ELEVON	10.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE ; HVR*EI

REFERENCE INFORMATION

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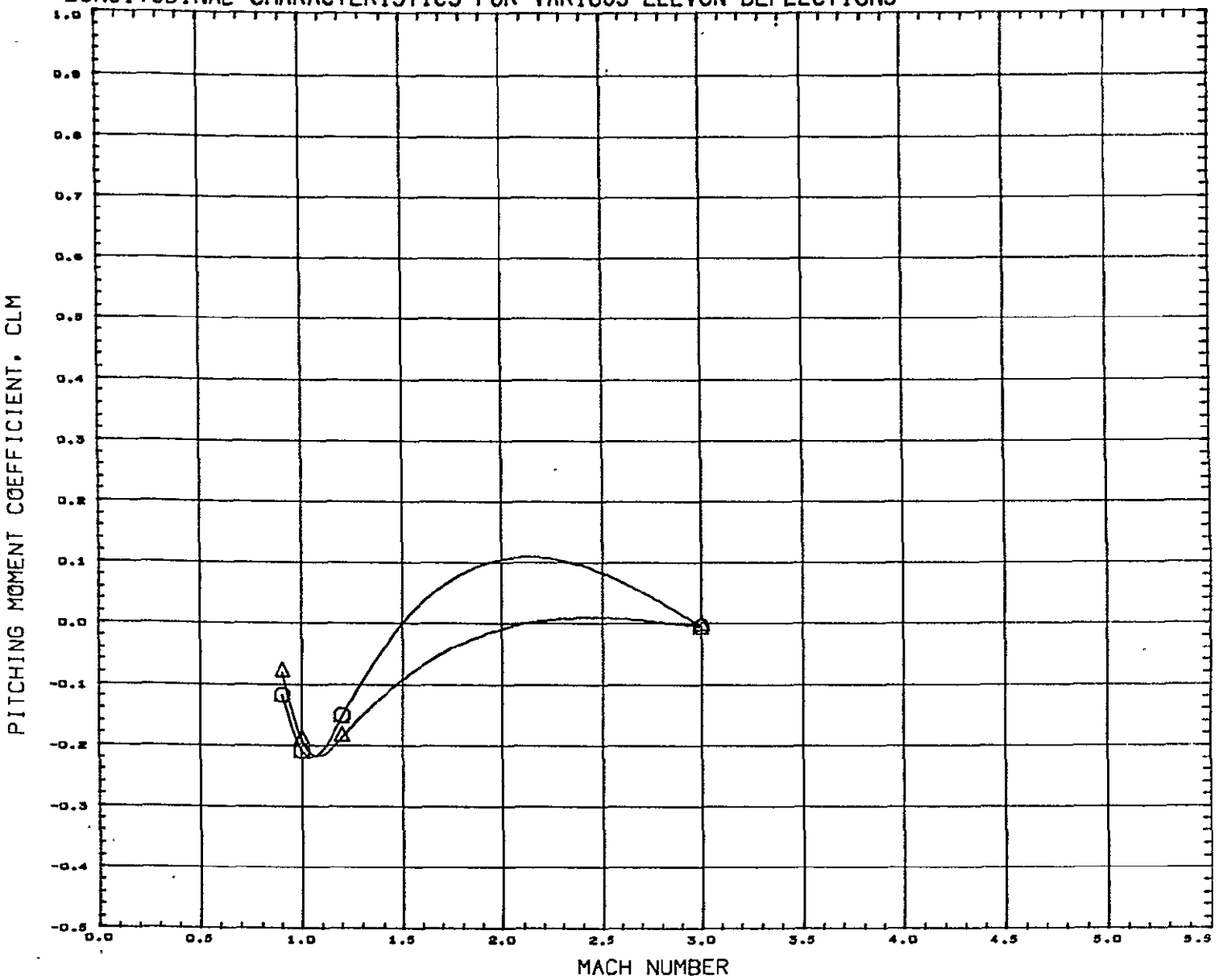
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS



SYMBOL	ALPHA
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PARAMETRIC VALUES

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DER	10.000	DCL	0.000
DCR	0.000	ELEVON	10.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

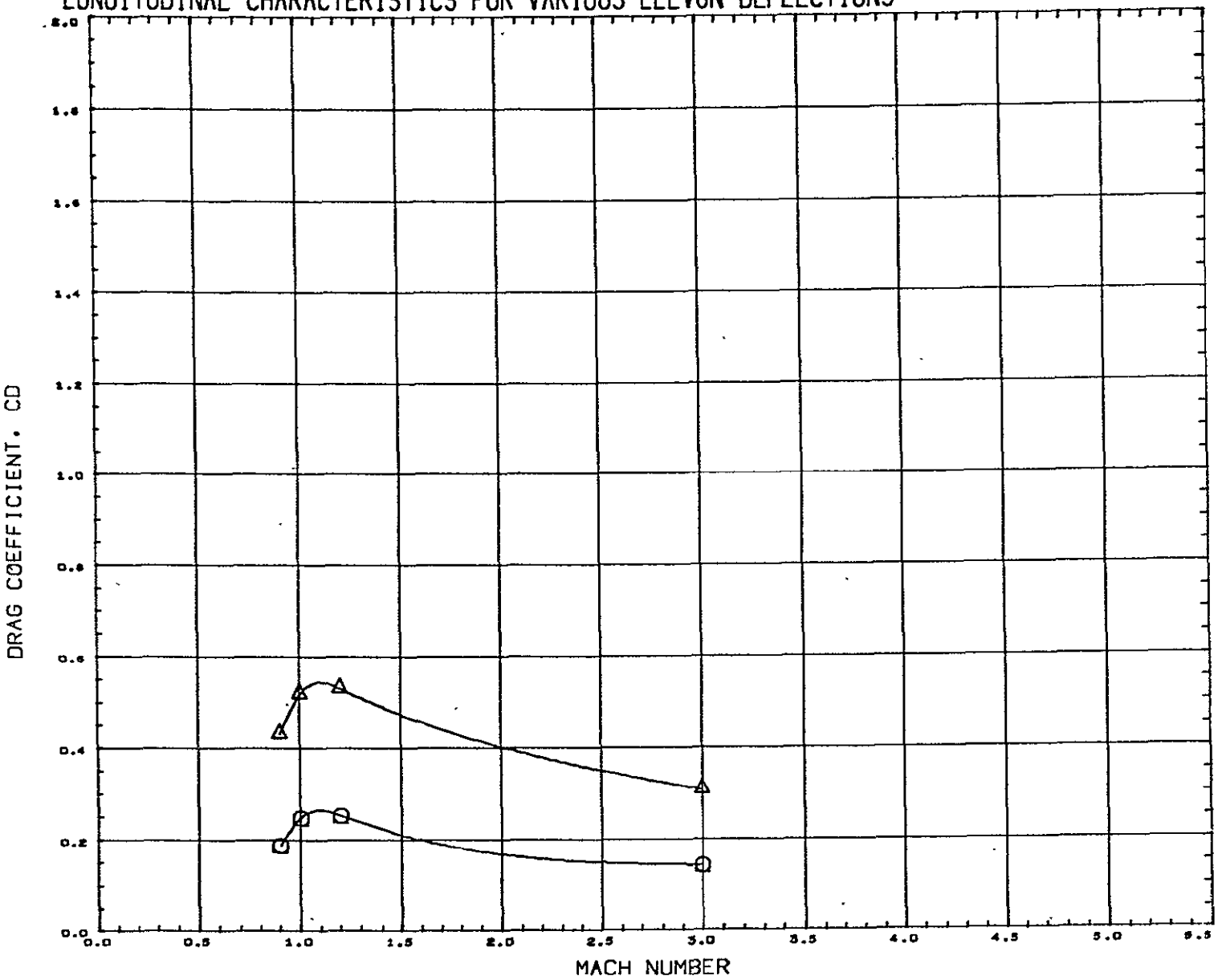
BETA	0.000	DEL	10.000
DER	10.000	DCL	0.000
DCR	0.000	ELEVON	10.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS FOR VARIOUS ELEVON DEFLECTIONS

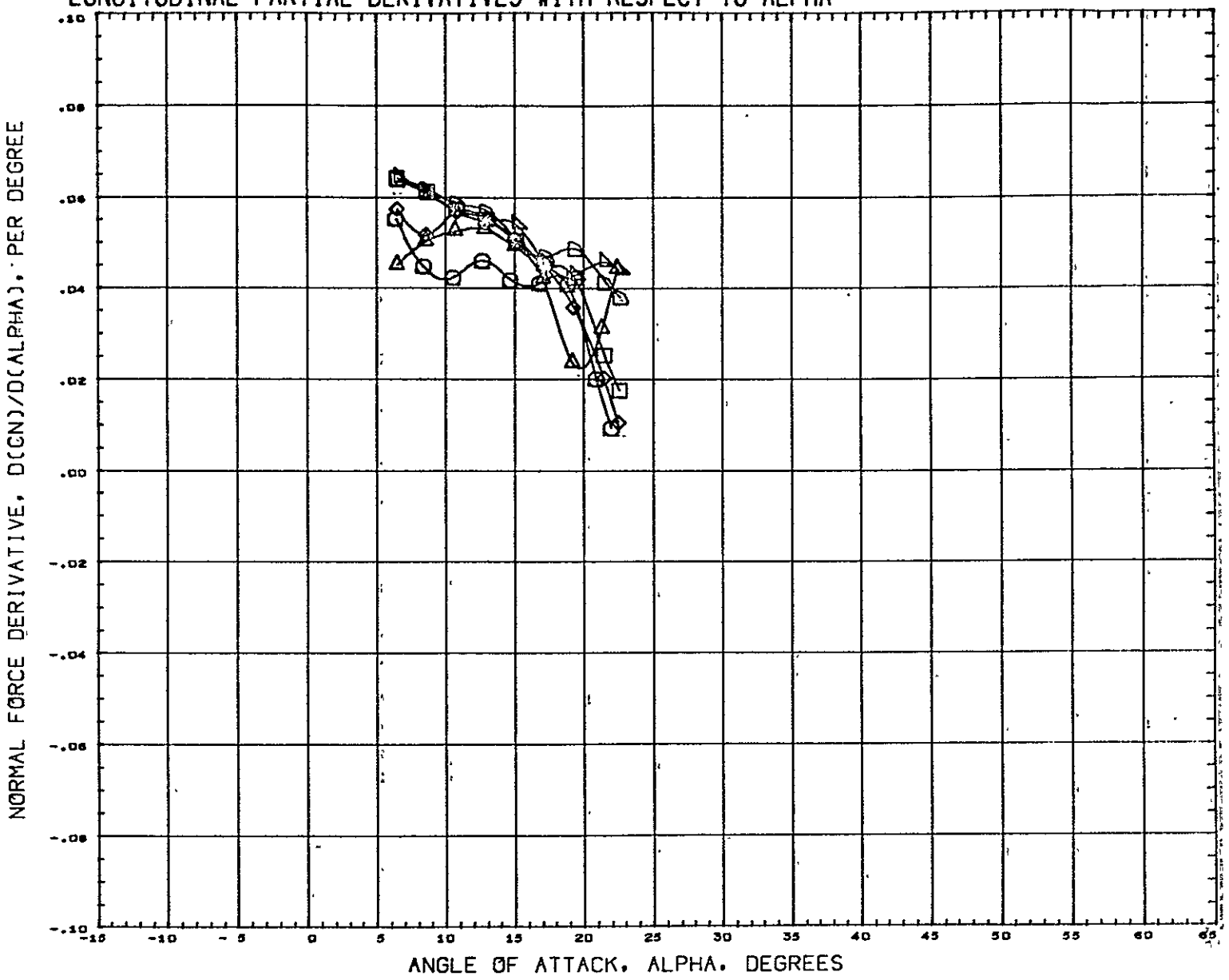


SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DEL	10.000
△	20.000	DER	10.000	DCL	0.000
		DCR	0.000	ELEVON	10.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA

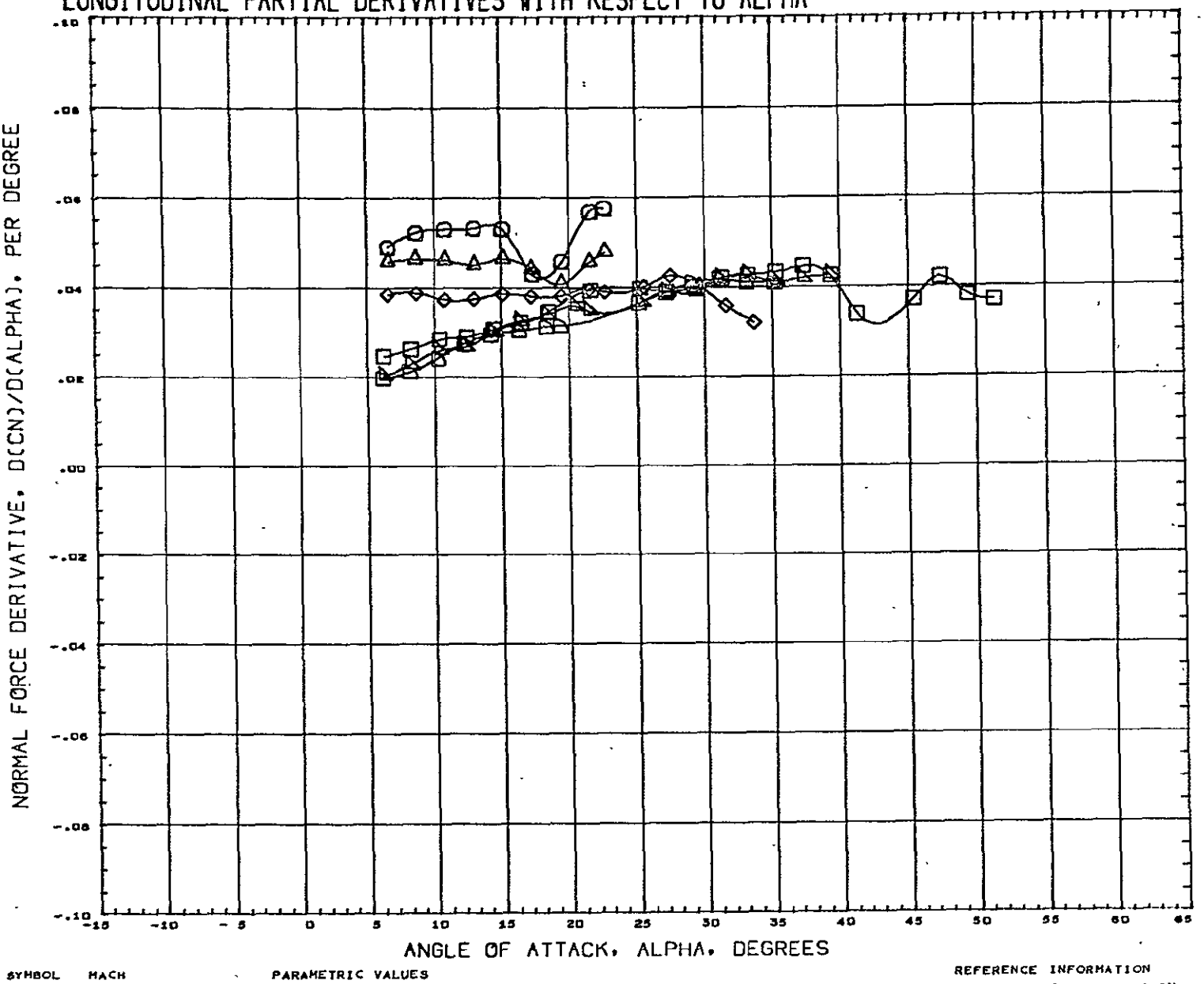


SYMBOL	MACH		PARAMETRIC VALUES		
○	0.607	BETA	0.000	DEL	0.000
△	0.900	DER	0.000	DCL	0.000
◇	0.954	DCR	0.000	ELEVON	0.000
□	1.007	CANARD	0.000	AILRON	0.000
▽	1.051				
D	1.105	DATA HIST. CODE	HVR*E*GG		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0039	

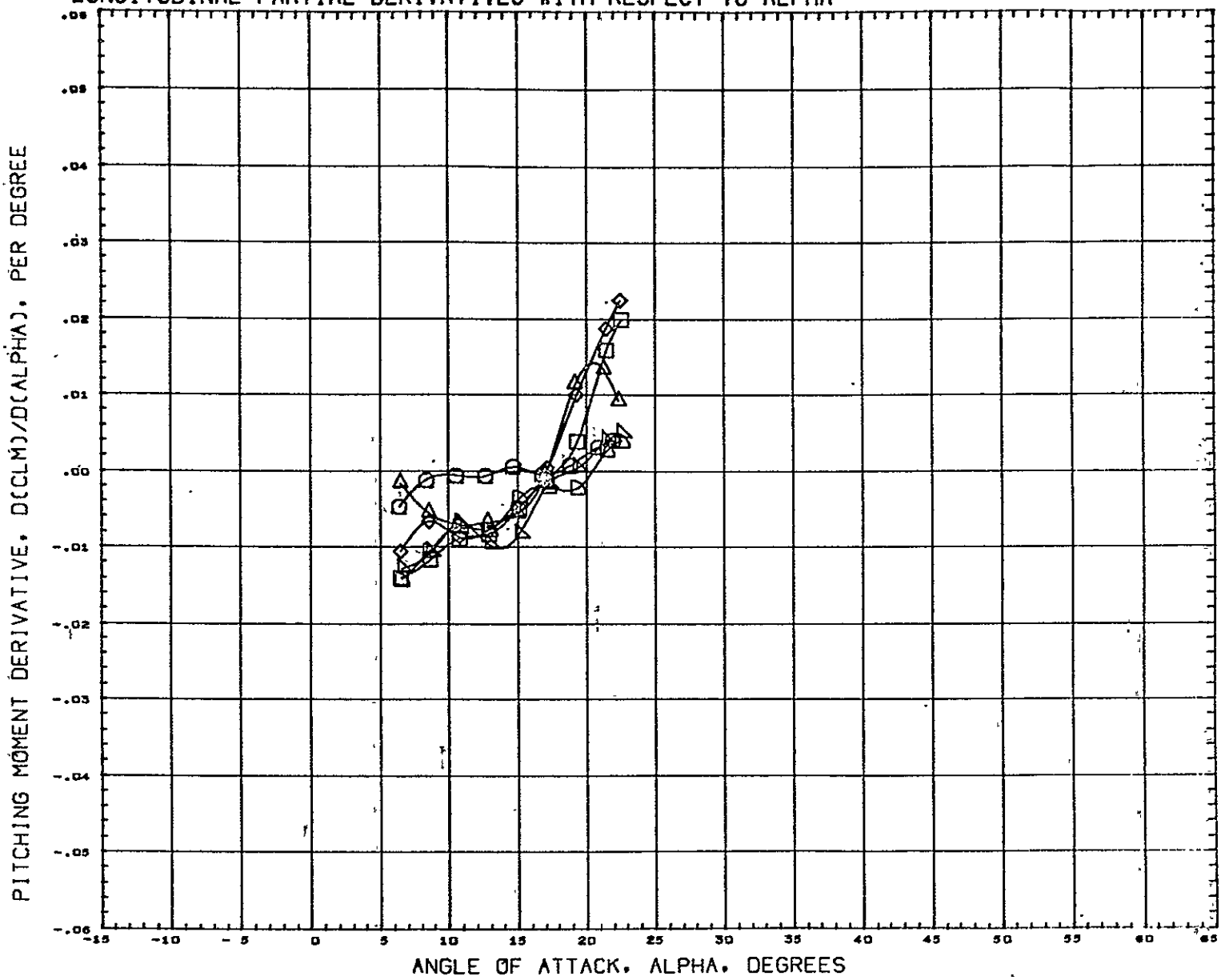
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH		PARAMETRIC VALUES		
○	1.201	BETA	0.000	DEL	0.000
△	1.462	DER	0.000	DCL	0.000
◇	1.958	DCR	0.000	ELEVON	0.000
□	2.990	CANARD	0.000	AILRON	0.000
▽	4.000				
▷	4.960	DATA HIST. CODE	MVR*E*GG		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

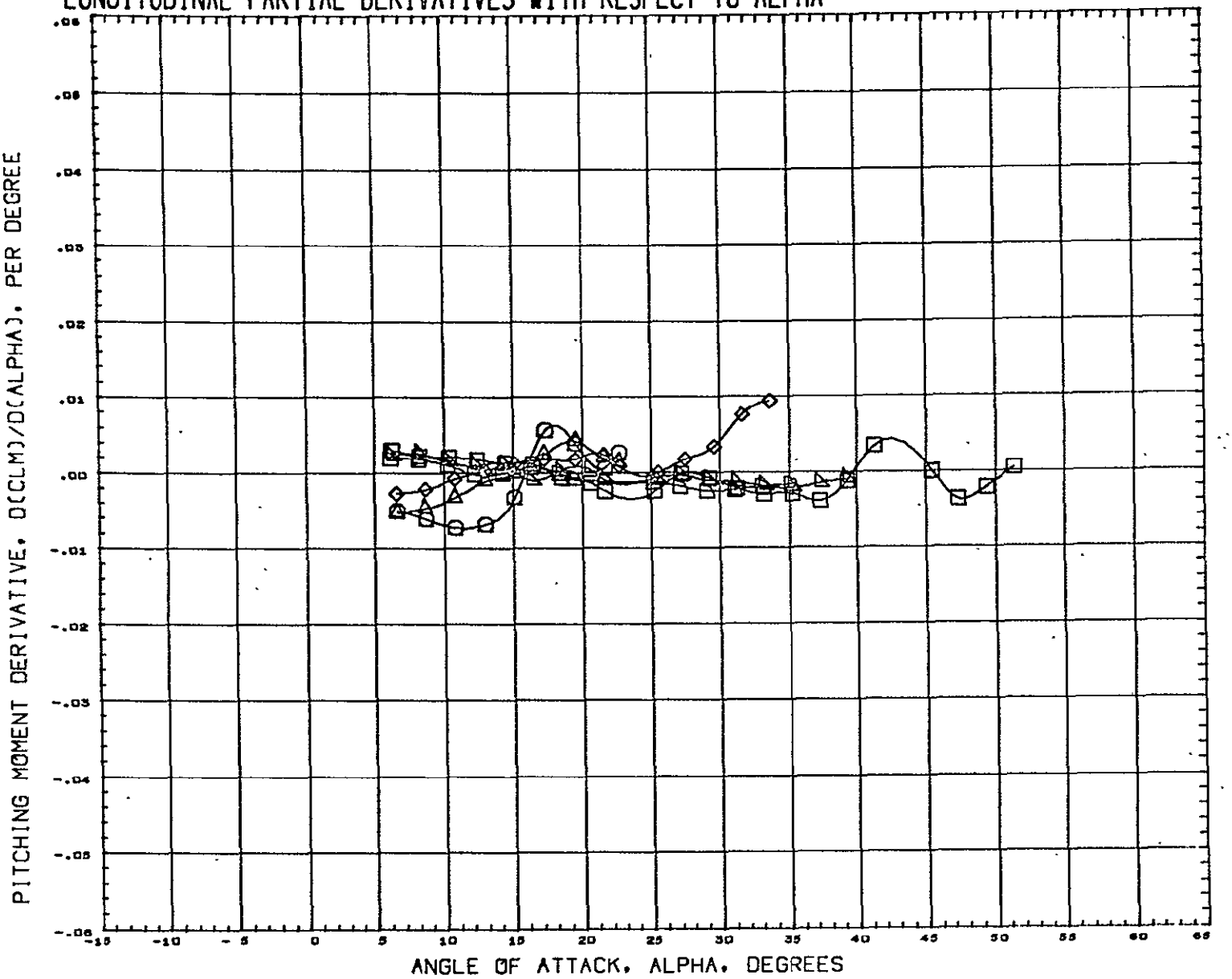
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.607	BETA	0.000	DEL	0.000
△	0.900	DER	0.000	DCL	0.000
◇	0.954	DCR	0.000	ELEVON	0.000
□	1.007	CANARD	0.000	AILRON	0.000
▽	1.051				
▷	1.105	DATA HIST. CODE		MVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA

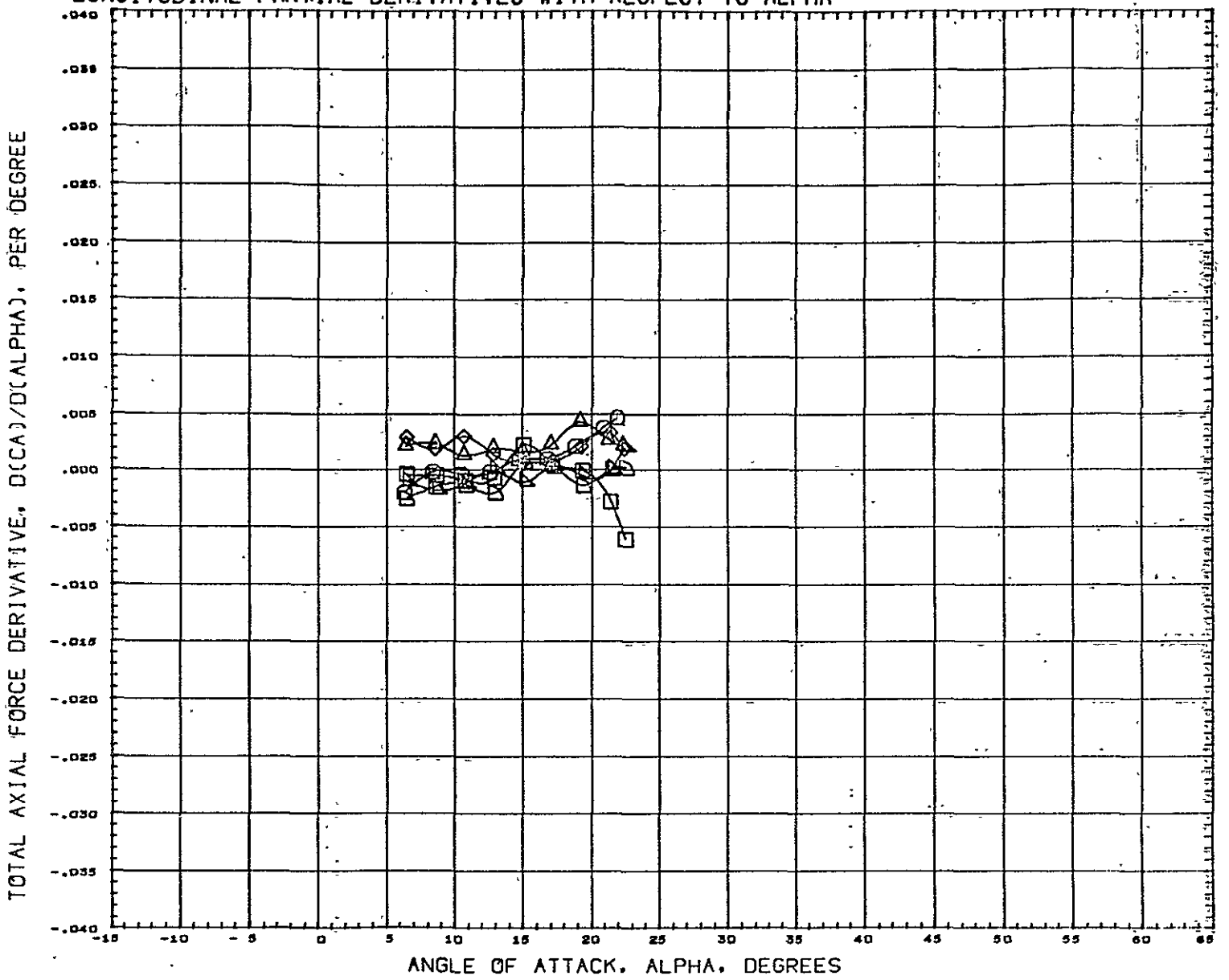


SYMBOL	MACH		PARAMETRIC VALUES		
○	1.201	BETA	0.000	DEL	0.000
△	1.462	DER	0.000	DCL	0.000
◇	1.958	DCR	0.000	ELEVON	0.000
□	2.990	CANARD	0.000	AILRON	0.000
▽	4.000				
▷	4.960	DATA HIST. CODE	HVR*E*GG		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

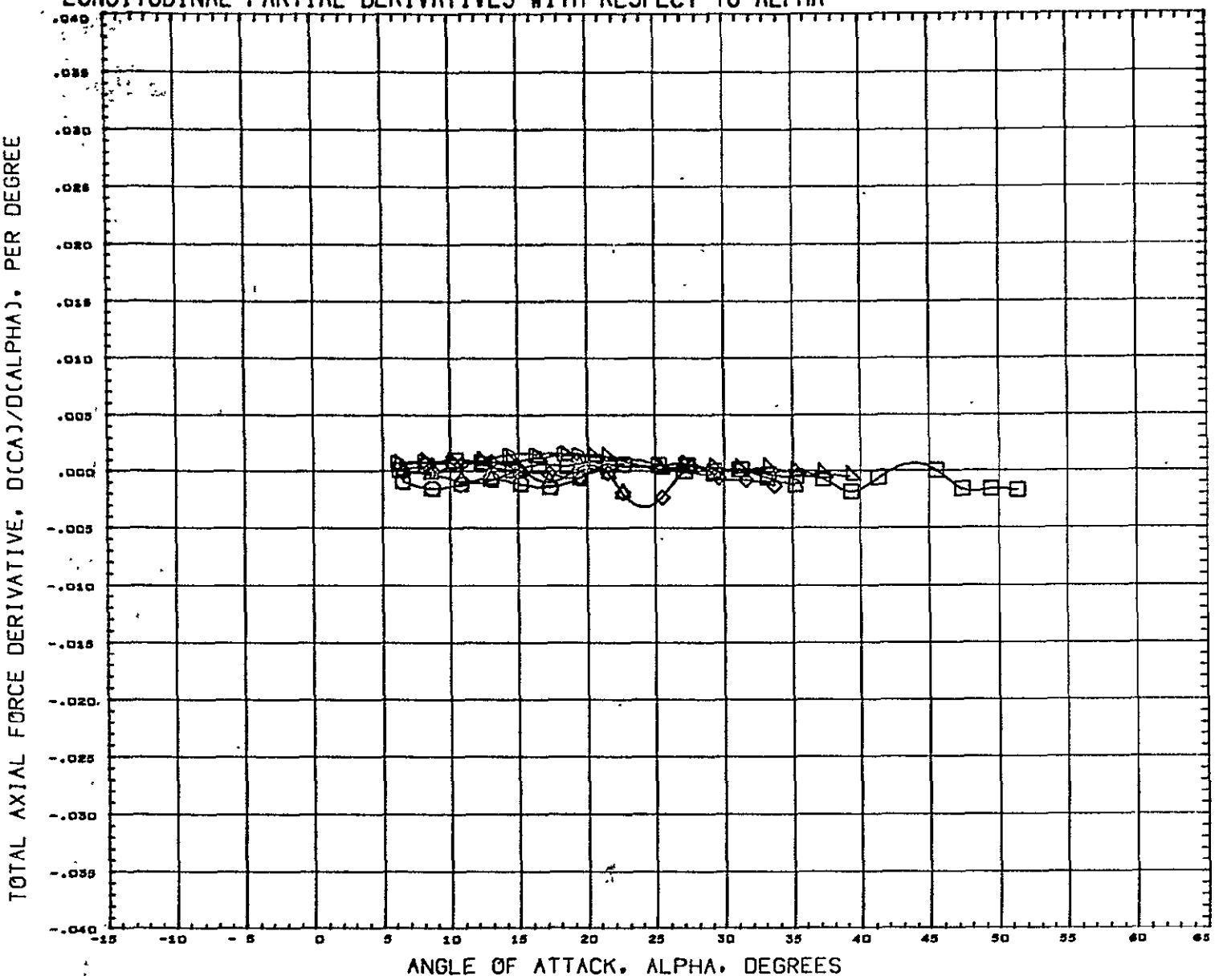
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.607	BETA	0.000	DEL	0.000
△	0.900	DER	0.000	DCL	0.000
◇	0.954	DCR	0.000	ELEVON	0.000
□	1.007	CANARD	0.000	AILRON	0.000
▱	1.051				
D	1.105	DATA HIST. CODE		HVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

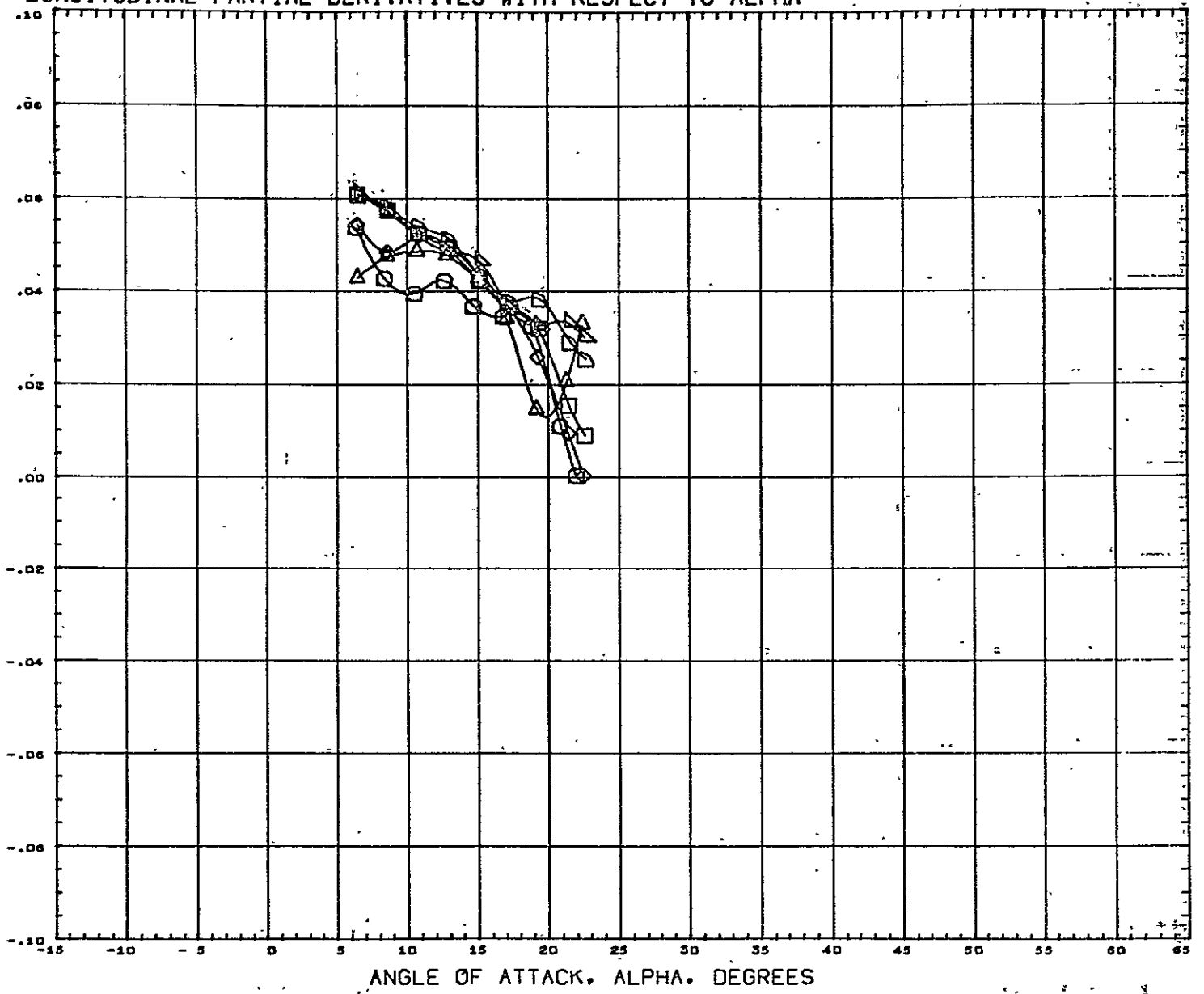
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH		PARAMETRIC VALUES		
○	1.201	BETA	0.000	DEL	0.000
△	1.462	DER	0.000	DCL	0.000
◇	1.958	DCR	0.000	ELEVON	0.000
□	2.990	CANARD	0.000	AILRON	0.000
▽	4.000				
D	4.960	DATA HIST. CODE		MVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

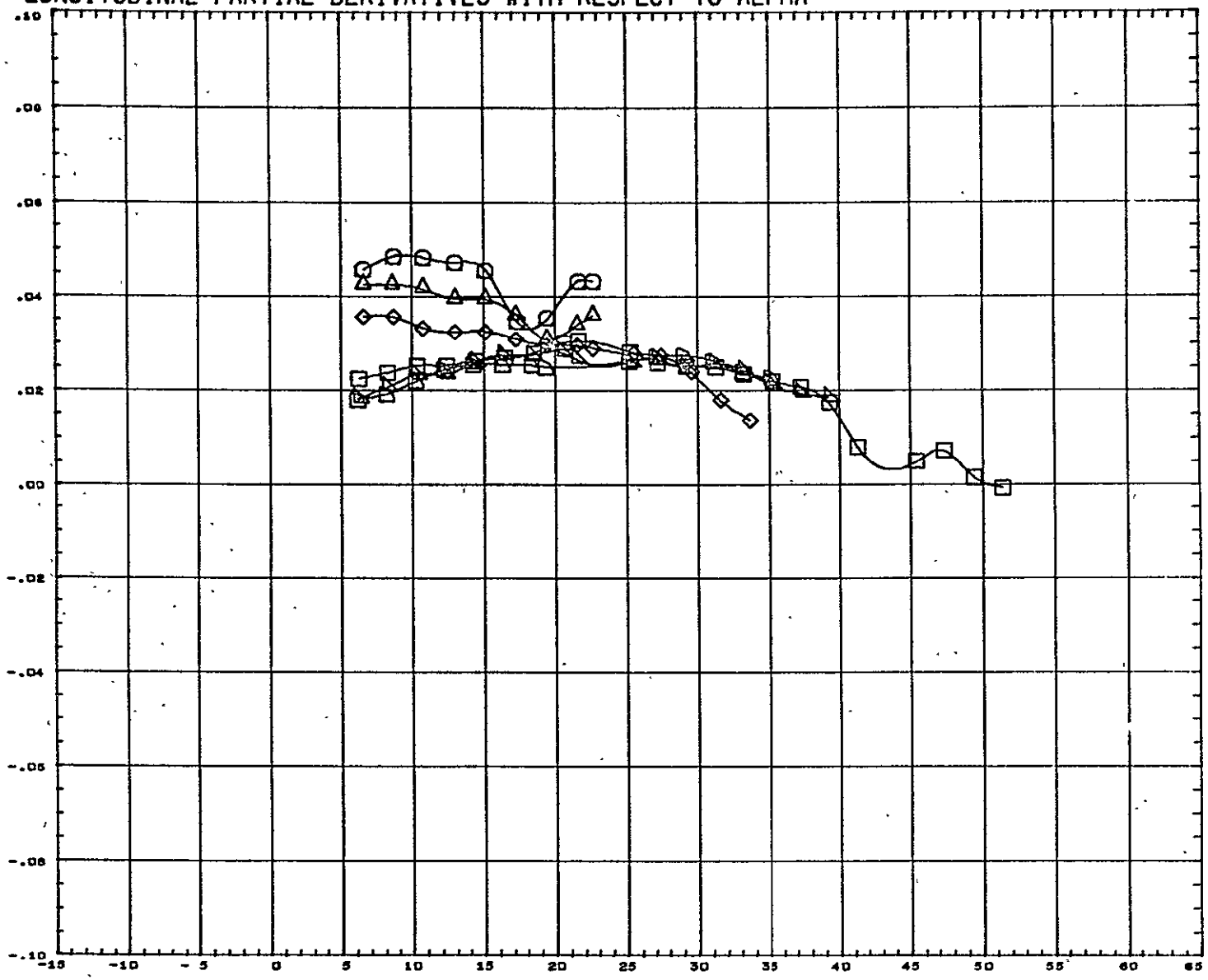
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.607	BETA	0.000	DEL	0.000
△	0.900	DER	0.000	DCL	0.000
□	0.954	DCR	0.000	ELEVON	0.000
◇	1.007	CANARD	0.000	AILRON	0.000
▽	1.051				
D	1.105	DATA HIST. CODE		MVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ. IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

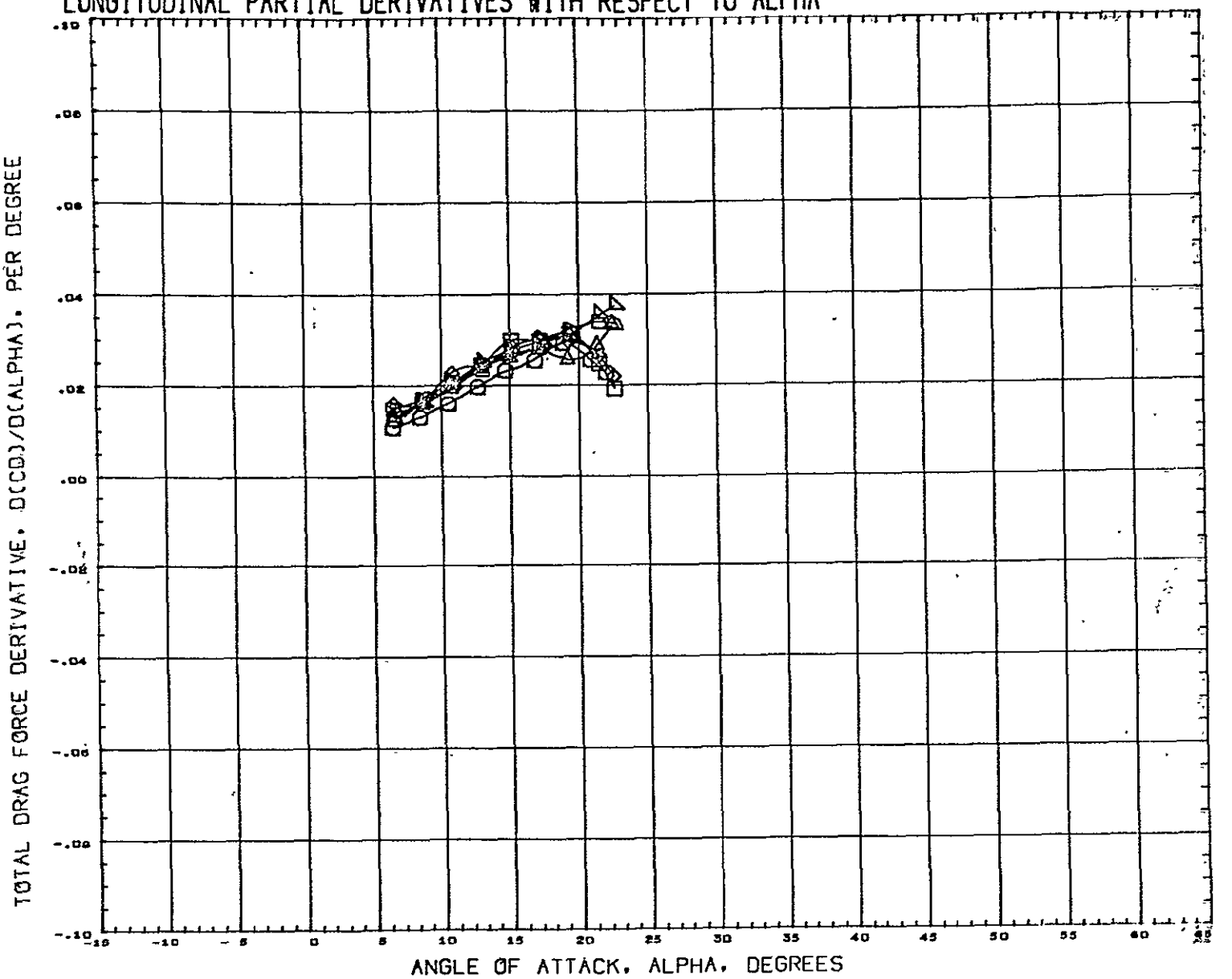
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH		PARAMETRIC VALUES		
○	1.201	BETA	0.000	DEL	0.000
△	1.462	DER	0.000	DCL	0.000
◇	1.956	DCR	0.000	ELEVON	0.000
□	2.990	CANARD	0.000	AILRON	0.000
▽	4.000				
⊠	4.960	DATA HIST. CODE	MVR*E*GG		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

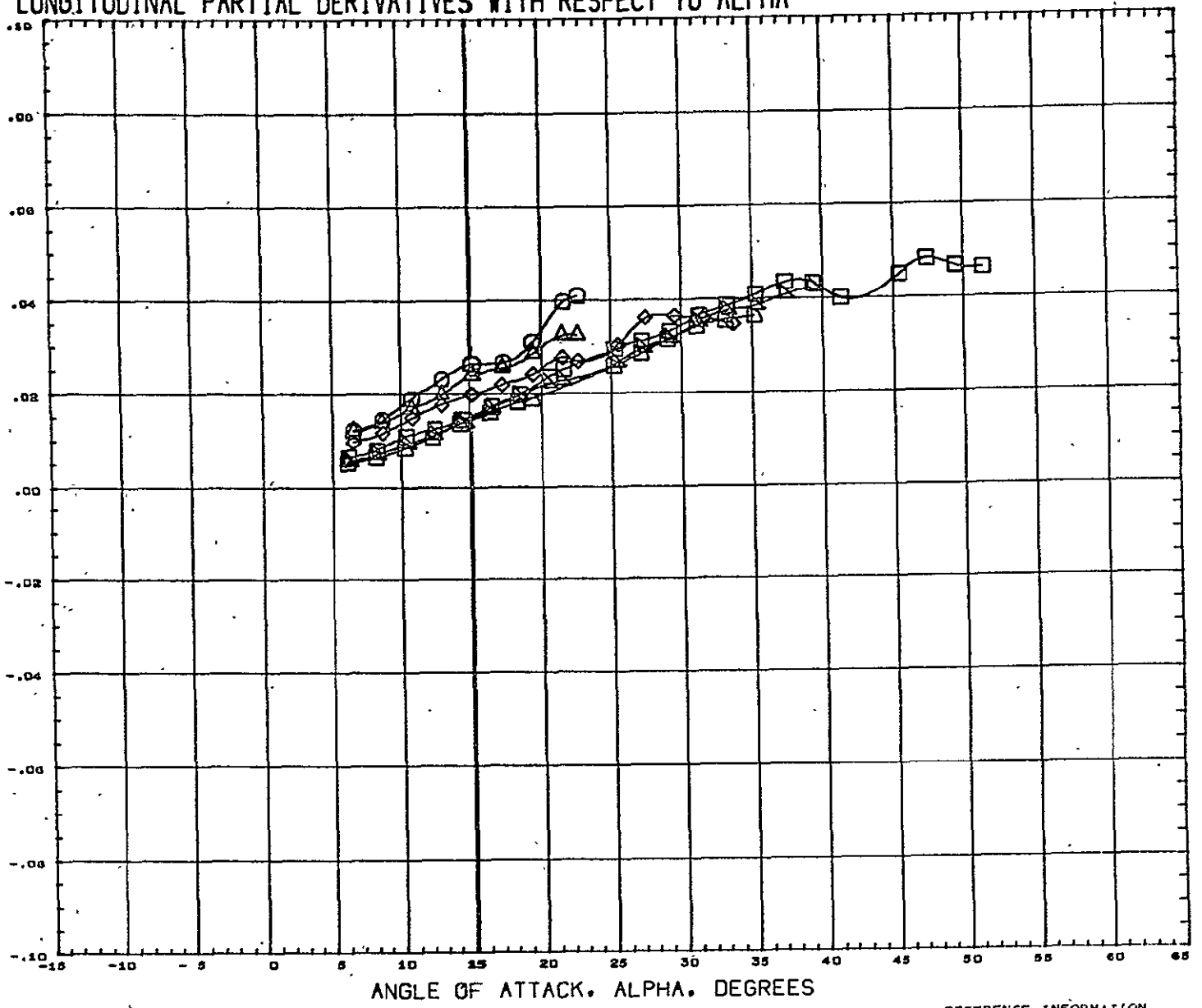
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.607	BETA	0.000	DEL	0.000
△	0.900	DER	0.000	DCL	0.000
◇	0.954	DCR	0.000	ELEVON	0.000
□	1.007	CANARD	0.000	AILRON	0.000
◸	1.051				
▷	1.105	DATA HIST. CODE		MVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA

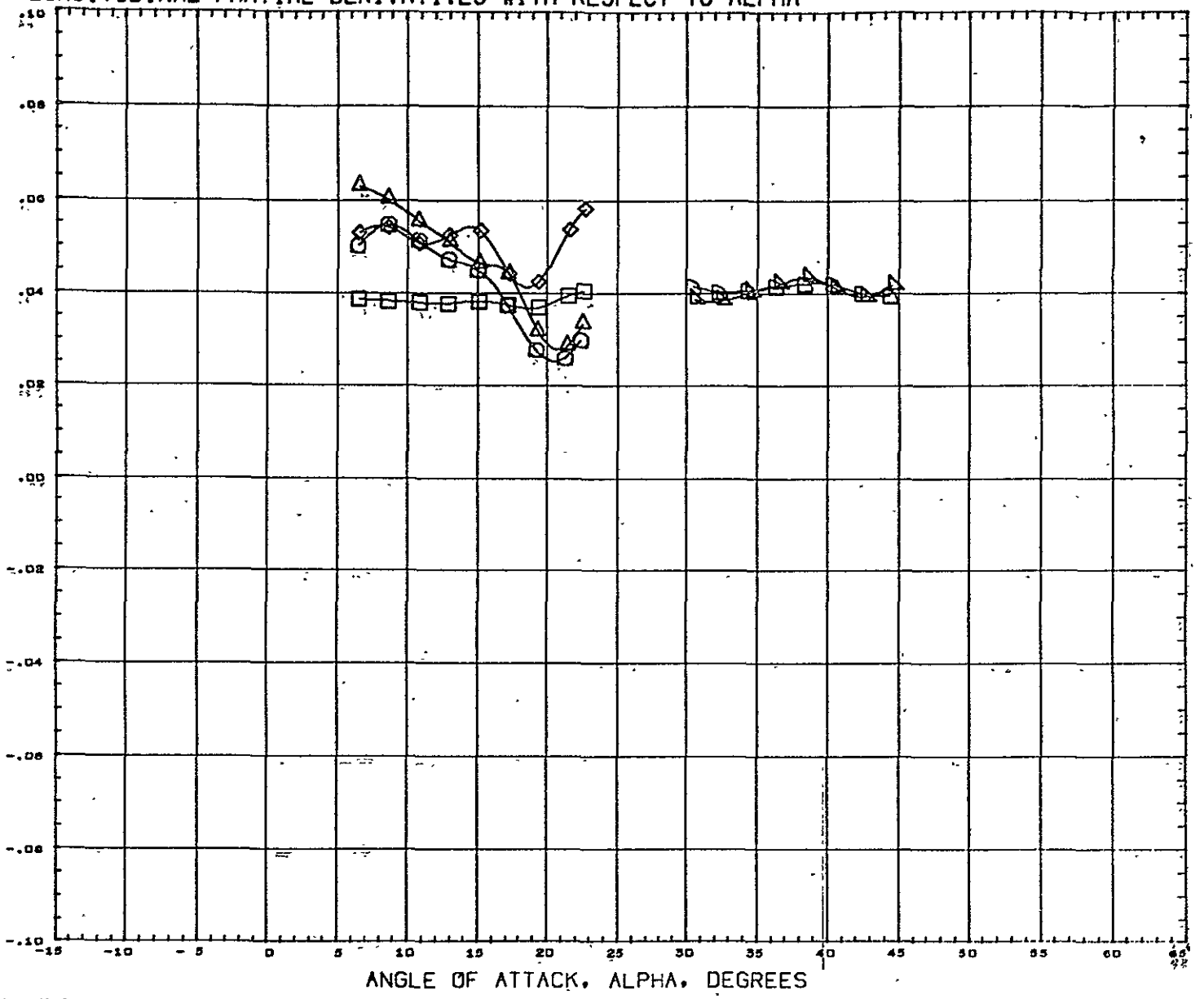


SYMBOL	MACH		PARAMETRIC VALUES		
○	1.201	BETA	0.000	DEL	0.000
△	1.462	DER	0.000	DCL	0.000
□	1.956	DCR	0.000	ELEVON	0.000
◇	2.990	CANARD	0.000	AILRON	0.000
▽	4.000				
▷	4.960	DATA HIST. CODE	MVR*E*GG		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

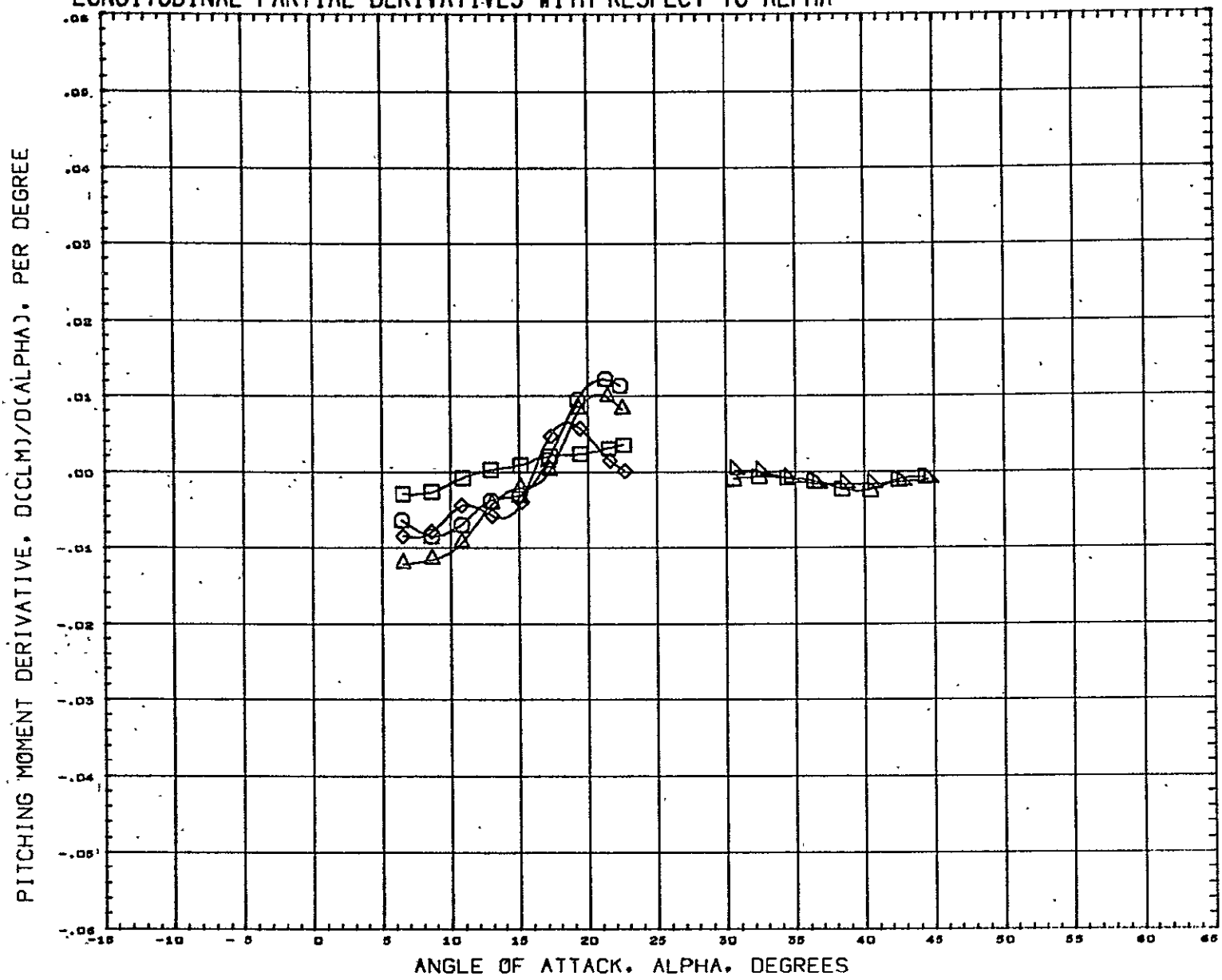
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.900	BETA	0.000	DEL	0.000
△	1.000	DER	- 20.000	DCL	0.000
◇	1.206	DCR	0.000	ELEVON	- 10.000
□	1.960	CANARD	0.000	AILRON	10.000
▽	2.990				
▷	4.960	DATA HIST. CODE		HVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

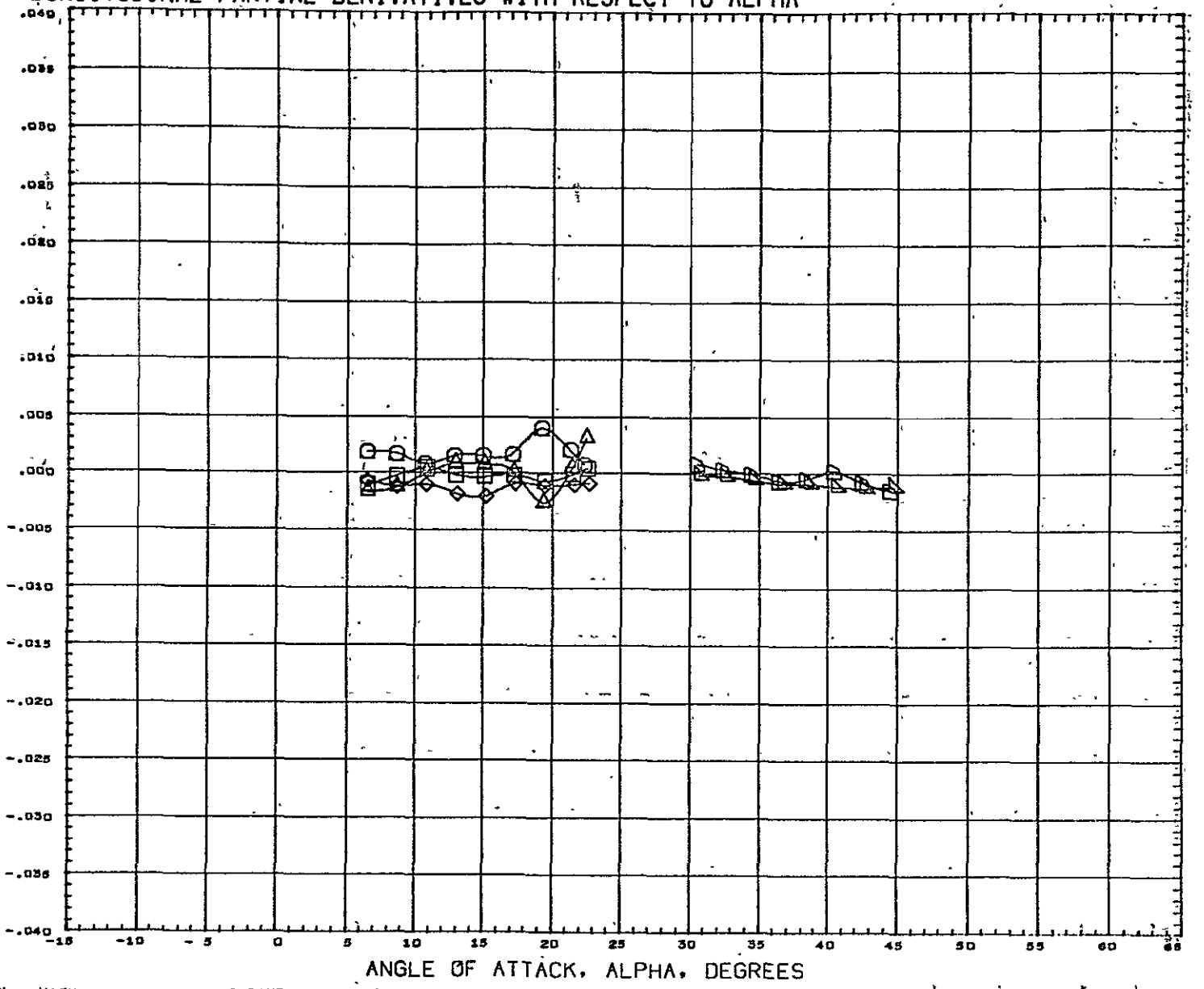
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.900	BETA	0.000	DEL	0.000
△	1.000	DER	- 20.000	DCL	0.000
◇	1.206	DCR	0.000	ELEVON	- 10.000
□	1.960	CANARD	0.000	AILRON	10.000
▽	2.990				
▷	4.960	DATA HIST. CODE		HVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

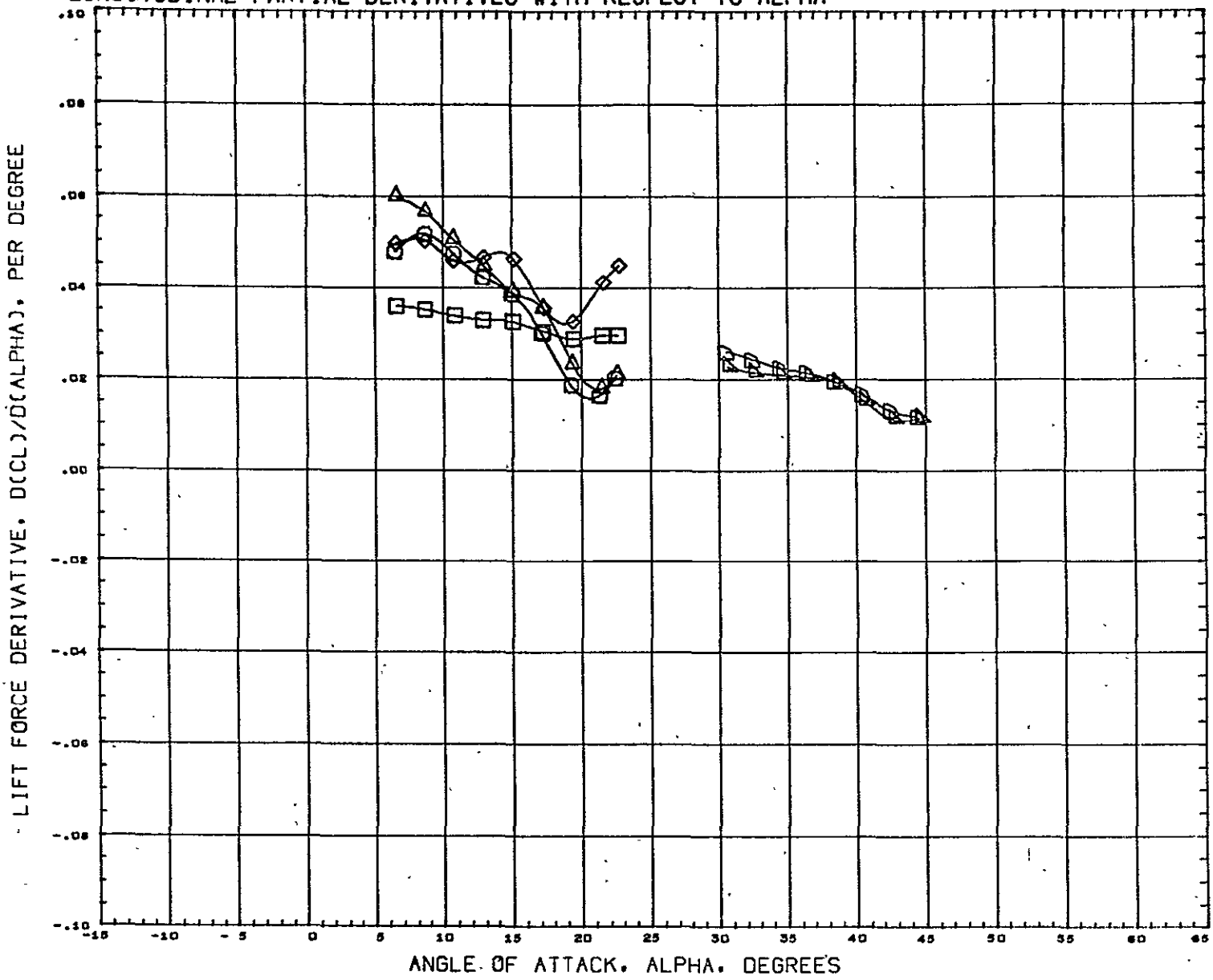
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.900	BETA	0.000	DEL	0.000
△	1.000	DER	- 20.000	DCL	0.000
□	1.206	DCR	0.000	ELEVON	- 10.000
◇	1.960	CANARD	0.000	AILRON	10.000
▽	2.990				
▷	4.960	DATA HIST. CODE -		MVR*E*GG	

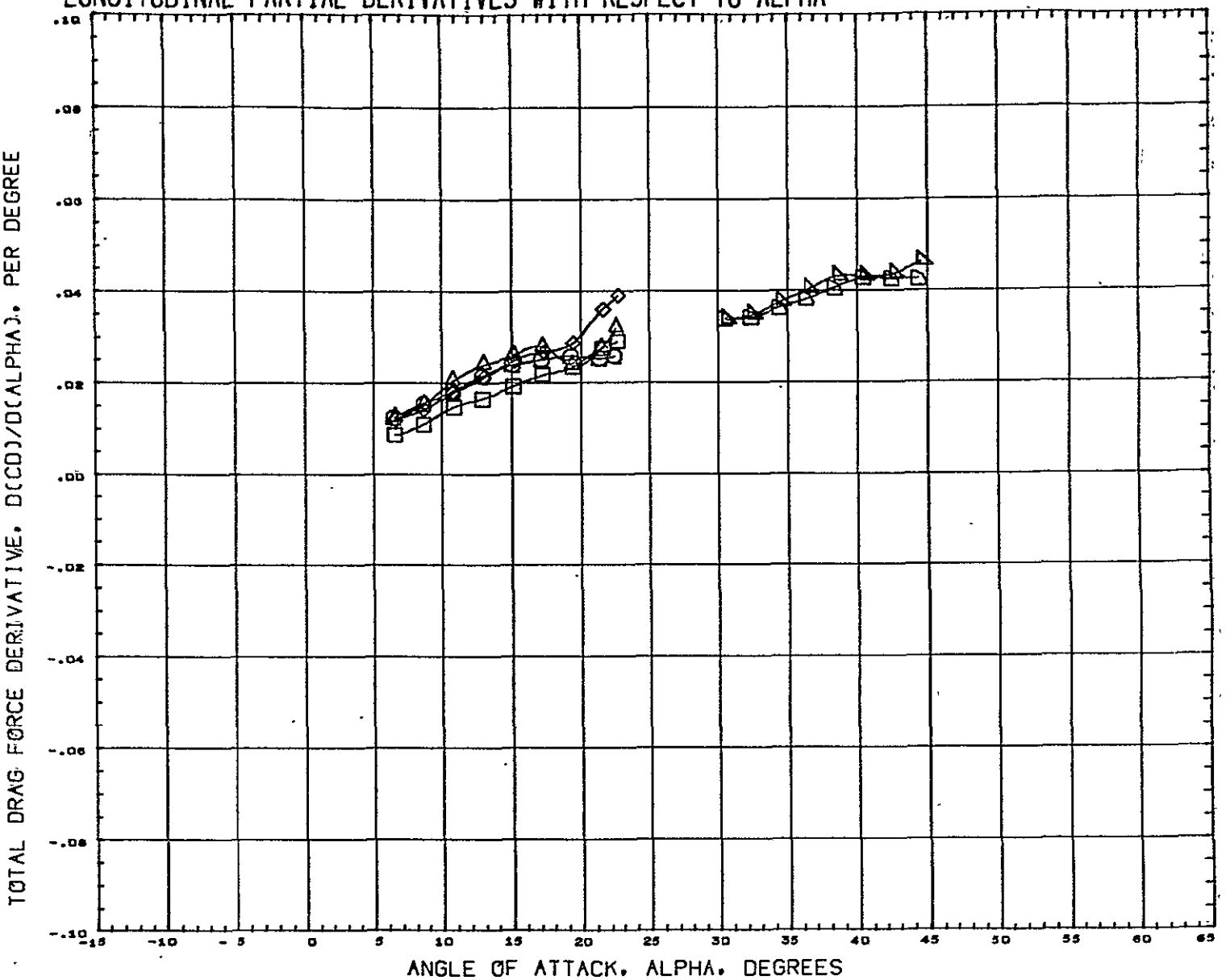
REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0033	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
	0.900	BETA	0.000	DEL	0.000	SREF	15.6560	SQ.IN.
	1.000	DER	- 20.000	DCL	0.000	LREF	3.0950	IN.
	1.206	DCR	0.000	ELEVON	- 10.000	BREF	6.0990	IN.
	1.960	CANARD	0.000	AILRON	10.000	XMRP	6.7100	IN.
	2.990					YMRP	0.0000	IN.
	4.960	DATA HIST. CODE		HVR*E*GG		ZMRP	0.0000	IN.
						SCALE	0.0035	

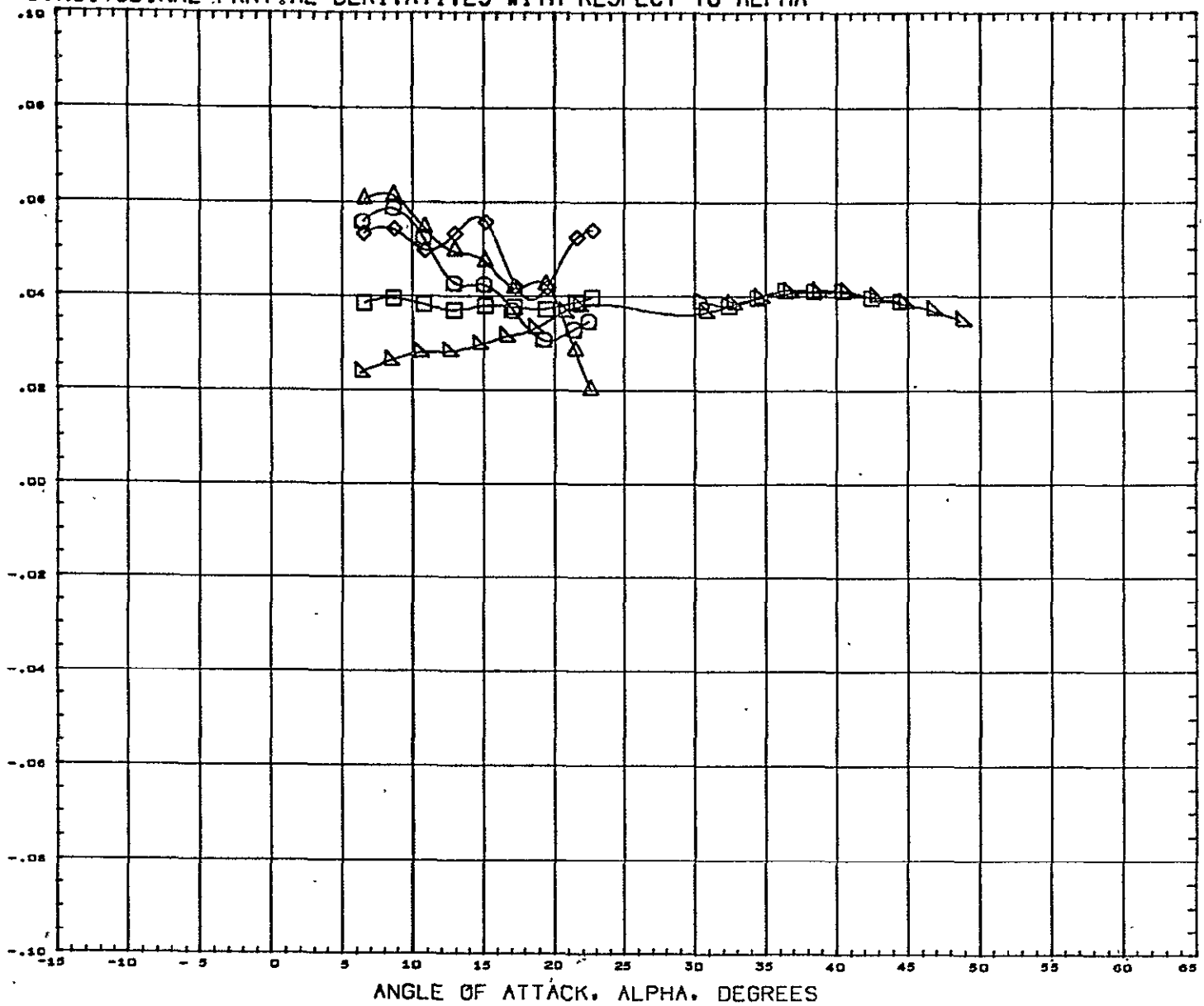
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.900	BETA	0.000	DEL	0.000
△	1.000	DER	- 20.000	DCL	0.000
□	1.206	DCR	0.000	ELEVON	- 10.000
◇	1.960	CANARD	0.000	AILRON	10.000
▽	2.990				
▷	4.960	DATA HIST. CODE		HVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0039	

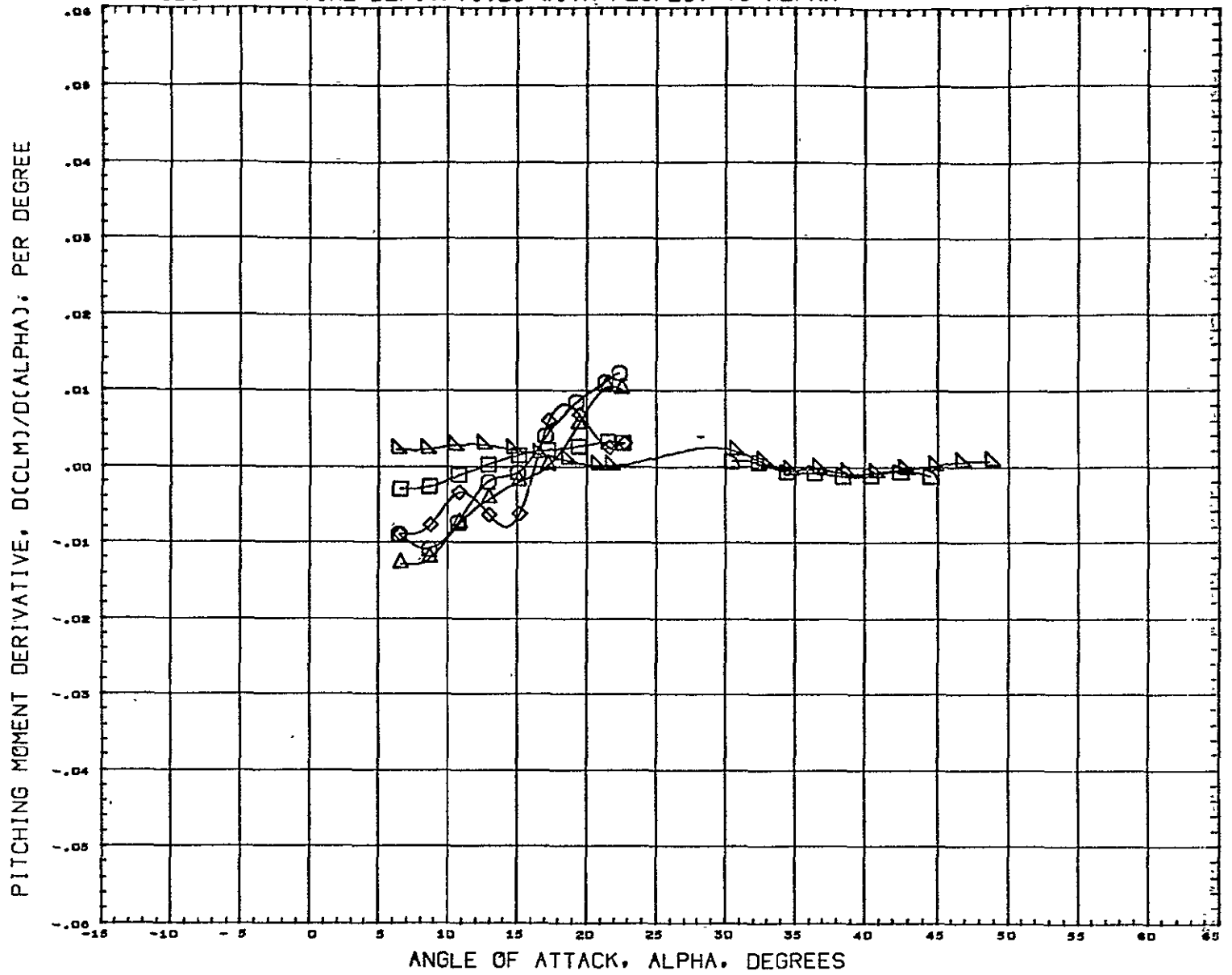
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.904	BETA	0.000	DEL	- 20.000
△	1.002	DER	- 20.000	DCL	0.000
□	1.204	DCR	0.000	ELEVON	- 20.000
◇	1.959	CANARD	0.000	AILRON	0.000
▽	2.990				
◁	4.960	DATA HIST. CODE	HVR*E*GG		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

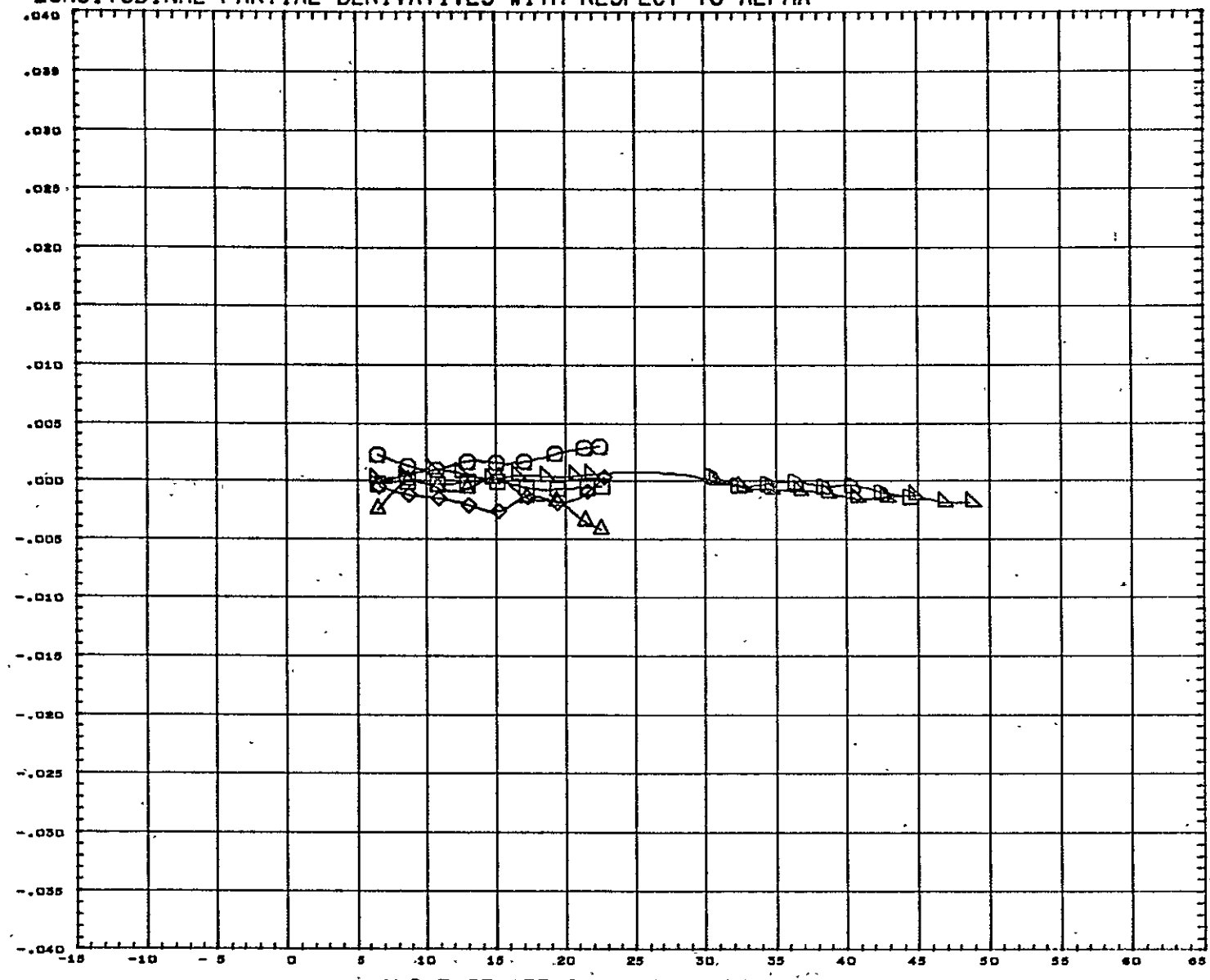
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.904	BETA	0.000	DEL	- 20.000
△	1.002	DER	- 20.000	DCL	0.000
◇	1.204	DCR	0.000	ELEVON	- 20.000
□	1.959	CANARD	0.000	AILRON	0.000
▽	2.990				
D	4.960	DATA HIST. CODE		MVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

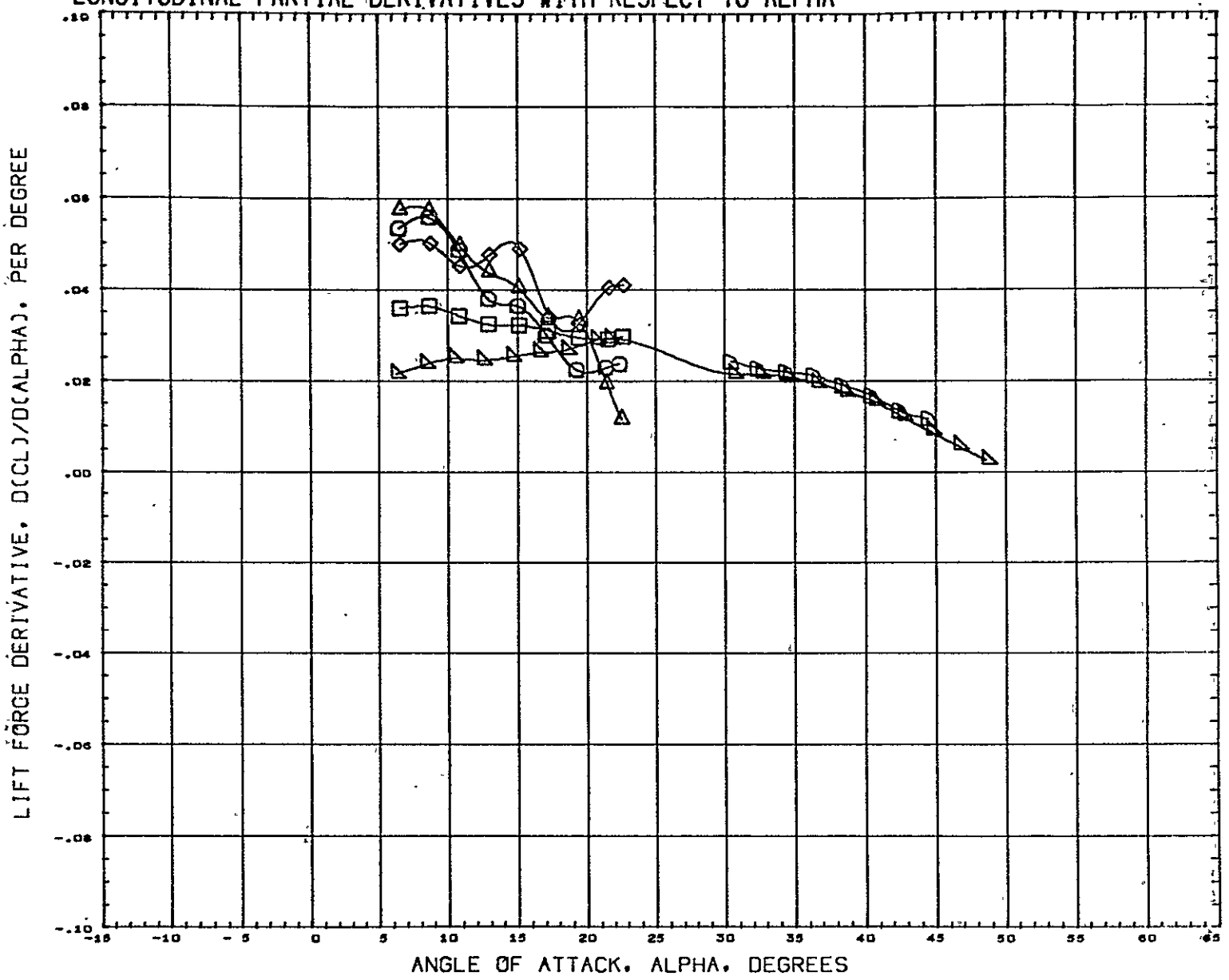
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.904	BETA	0.000	DEL	- 20.000
△	1.002	DER	- 20.000	DCL	0.000
◇	1.204	DCR	0.000	ELEVON	- 20.000
□	1.959	CANARD	0.000	AILRON	0.000
▽	2.990				
D	4.960	DATA HIST. CODE	MVR*E*GG		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

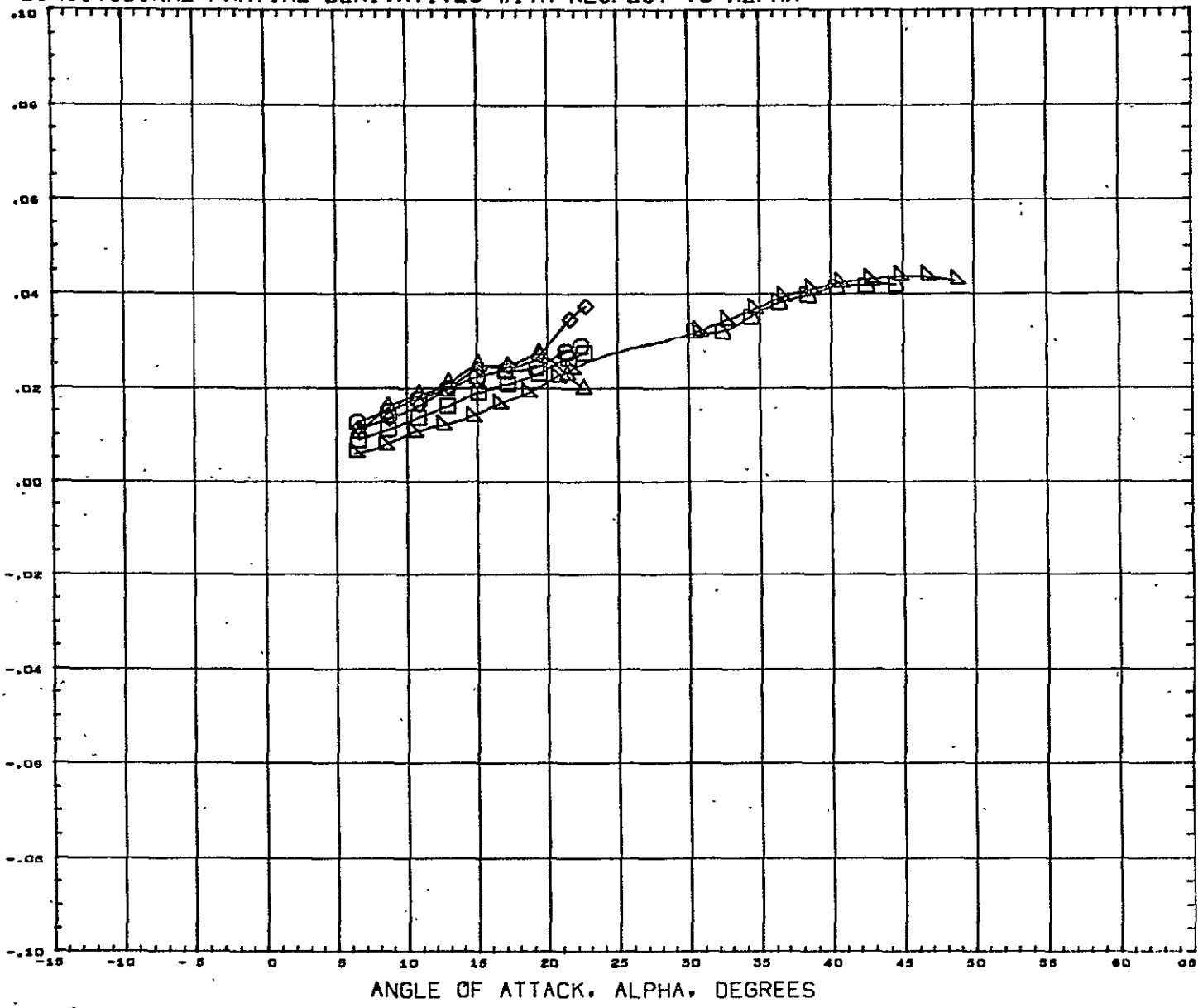
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.904	BETA	0.000	DEL	- 20.000
△	1.002	DER	- 20.000	DCL	0.000
◇	1.204	DCR	0.000	ELEVON	- 20.000
□	1.959	CANARD	0.000	AILRON	0.000
▽	2.990				
	4.960	DATA HIST. CODE:	MVR*E*GG		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA

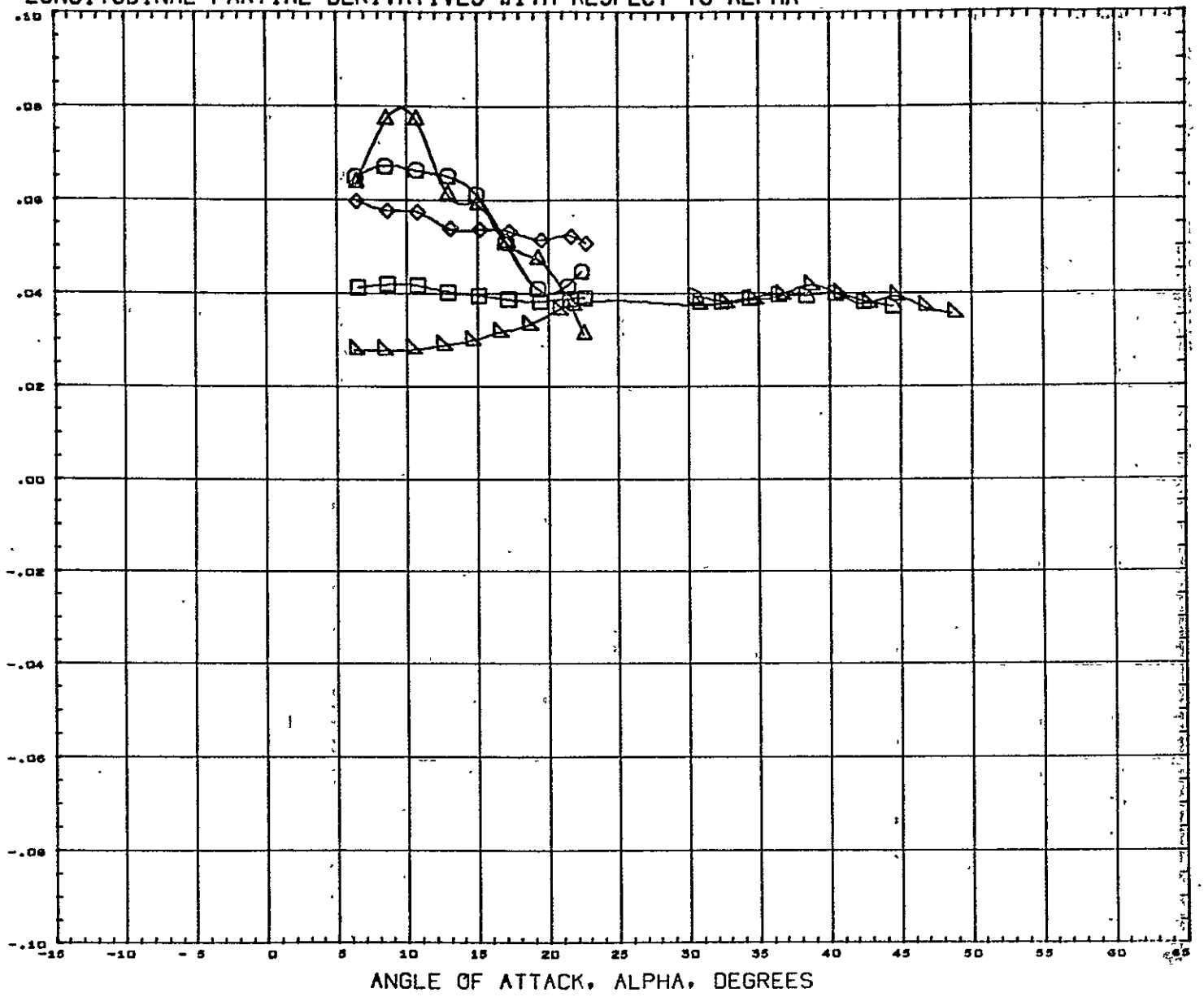


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.904	BETA	0.000	DEL	- 20.000
△	1.002	DER	- 20.000	DCL	0.000
□	1.204	DCR	0.000	ELEVON	- 20.000
◇	1.959	CANARD	0.000	AILRON	0.000
▽	2.990				
⬠	4.960	DATA HIST. CODE		HVR*E*GG	

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

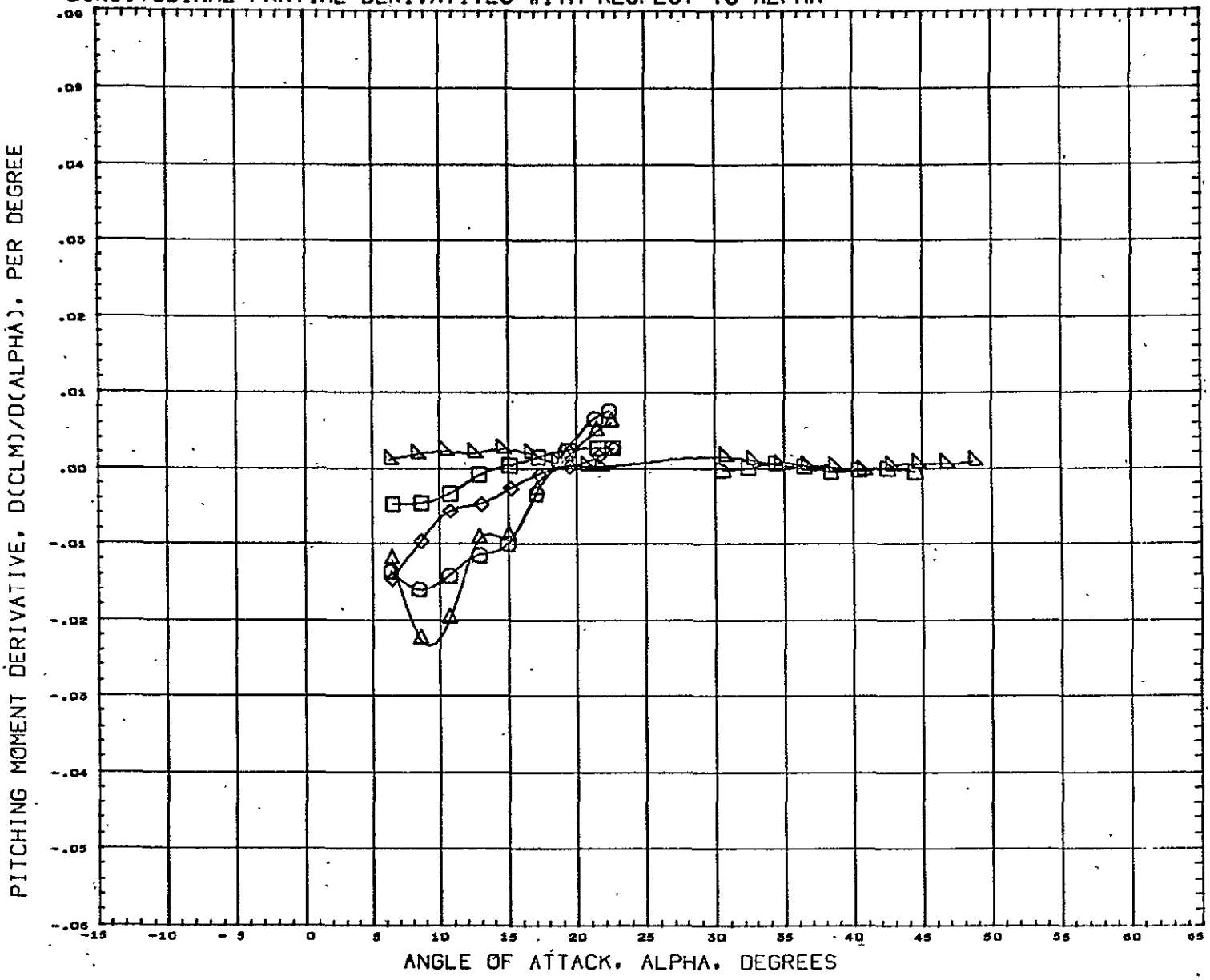
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.901	BETA	0.000	DEL	- 60.000
△	1.003	DER	- 60.000	DCL	0.000
◇	1.202	DCR	0.000	ELEVON	- 60.000
□	1.960	CANARD	0.000	AILRON	0.000
▽	2.990				
⊿	4.960	DATA HIST. CODE		HVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

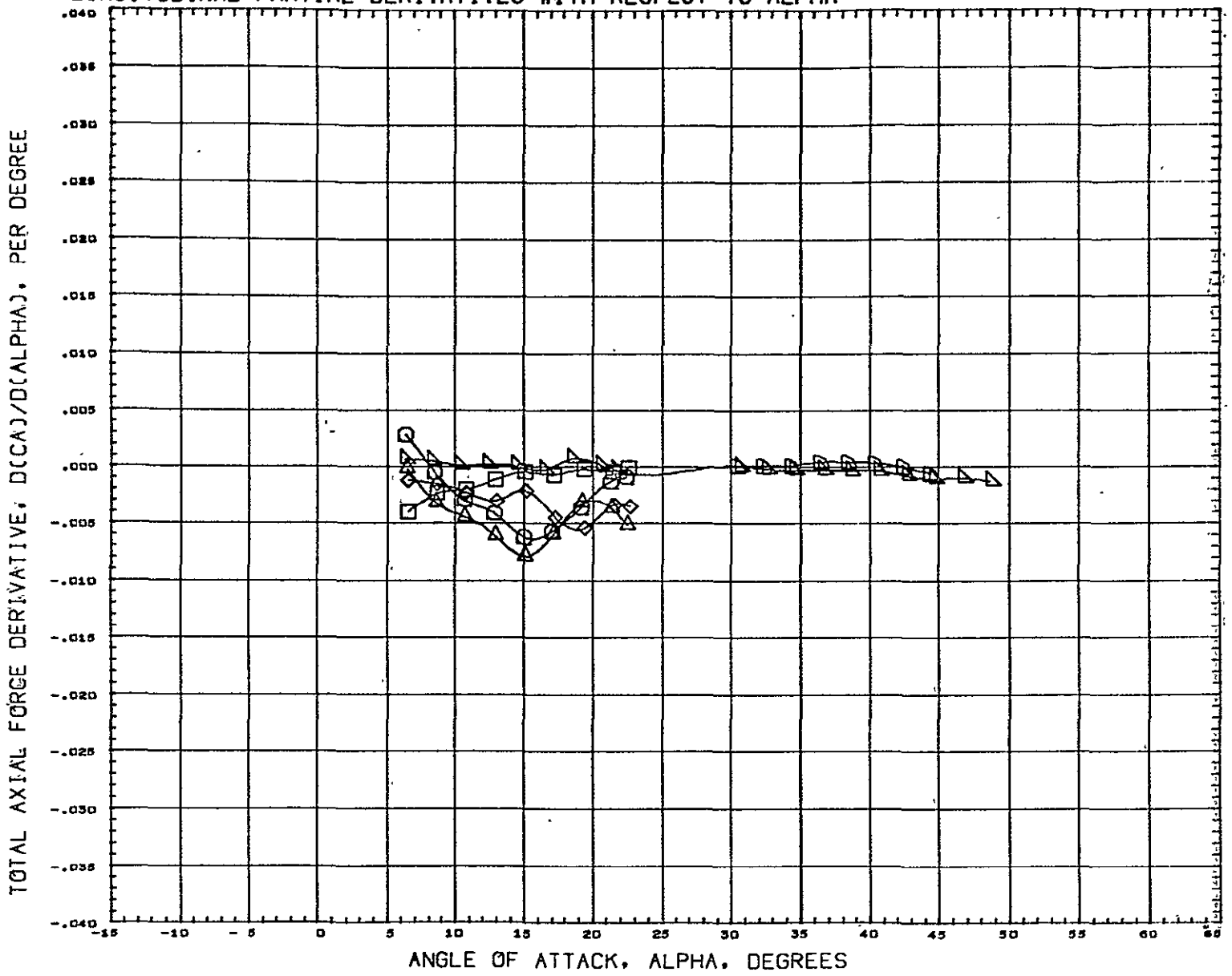
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.901	BETA	0.000	DEL	- 60.000
△	1.003	DER	- 60.000	DCL	0.000
◇	1.202	DCR	0.000	ELEVON	- 60.000
□	1.960	CANARD	0.000	AILRON	0.000
▽	2.990				
▷	4.960	DATA HIST. CODE		MVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

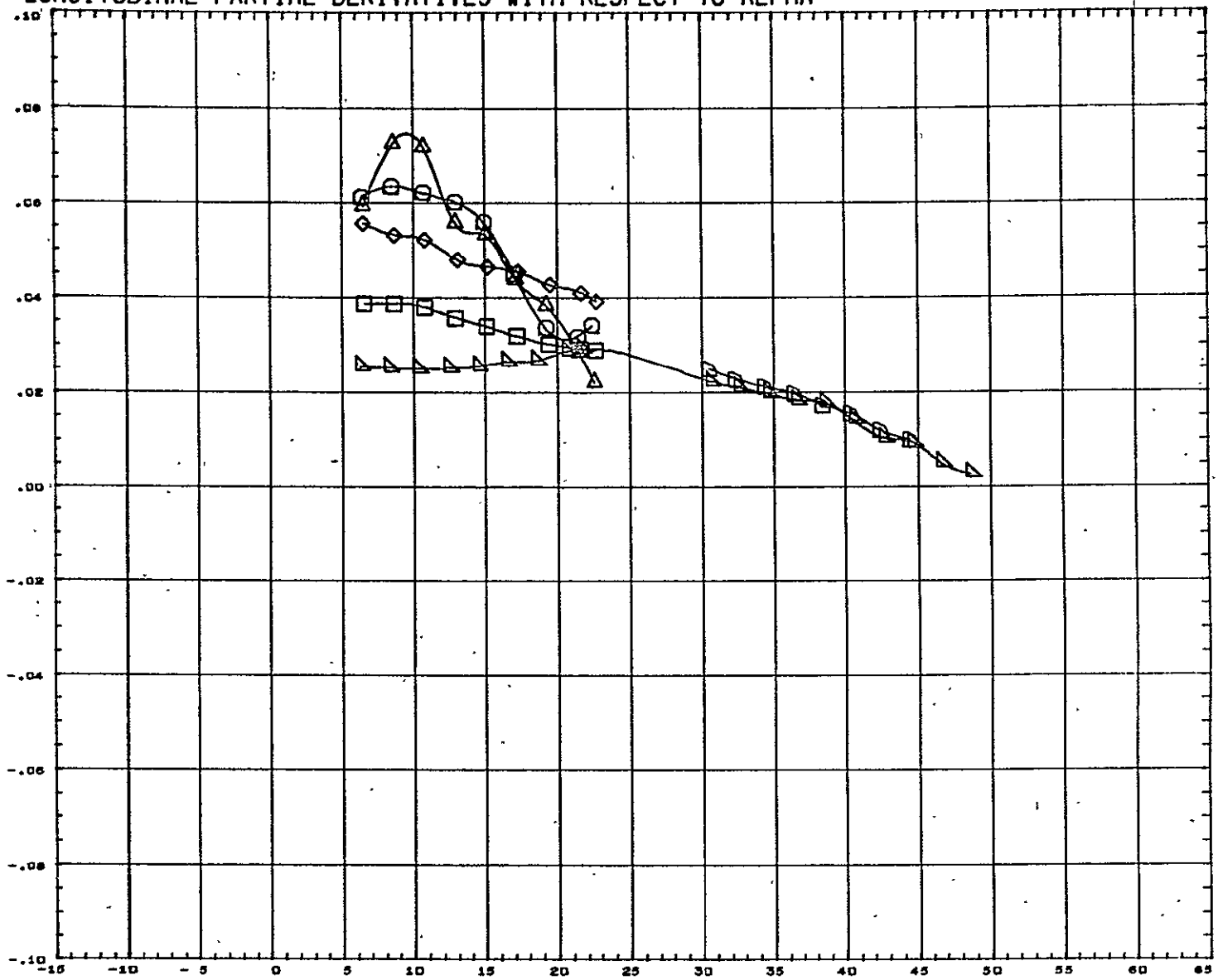
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.901	BETA	0.000	DEL	- 60.000
◇	1.003	DER	- 60.000	DCL	0.000
□	1.202	DCR	0.000	ELEVON	- 60.000
▽	1.960	CANARD	0.000	AILRON	0.000
△	2.990				
	4.960	DATA HIST. CODE		MVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA

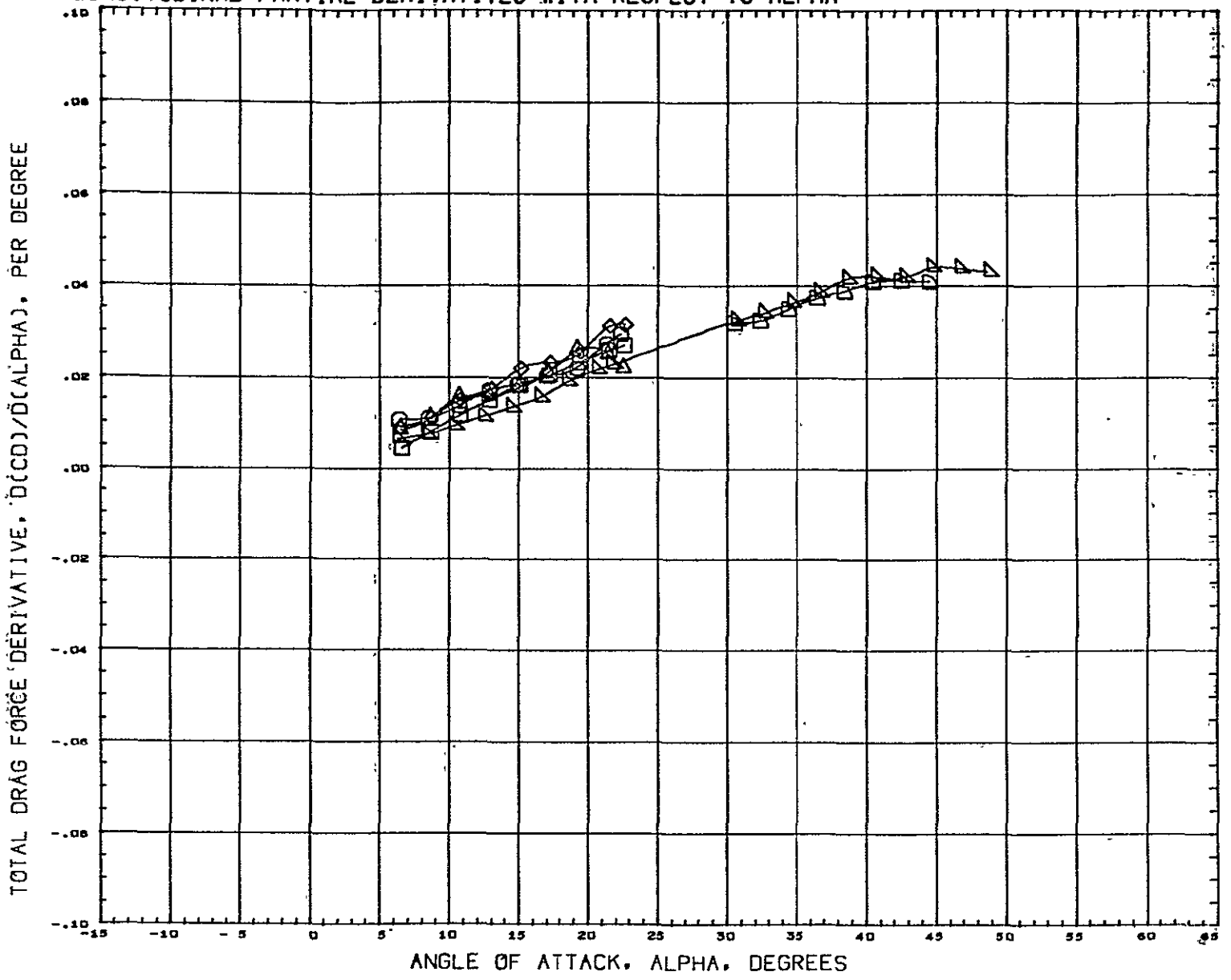


SYMBOL	MACH		PARAMETRIC VALUES		
○	0.901	BETA	0.000	DEL	- 60.000
△	1.003	DER	- 60.000	DCL	0.000
◇	1.202	DCR	0.000	ELEVON	- 60.000
□	1.960	CANARD	0.000	AILRON	0.000
▽	2.990				
▷	4.960	DATA HIST. CODE	MVR*E*GG		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	MACH
◇	0.901
△	1.003
□	1.202
◸	1.960
	2.990
▷	4.960

PARAMETRIC VALUES

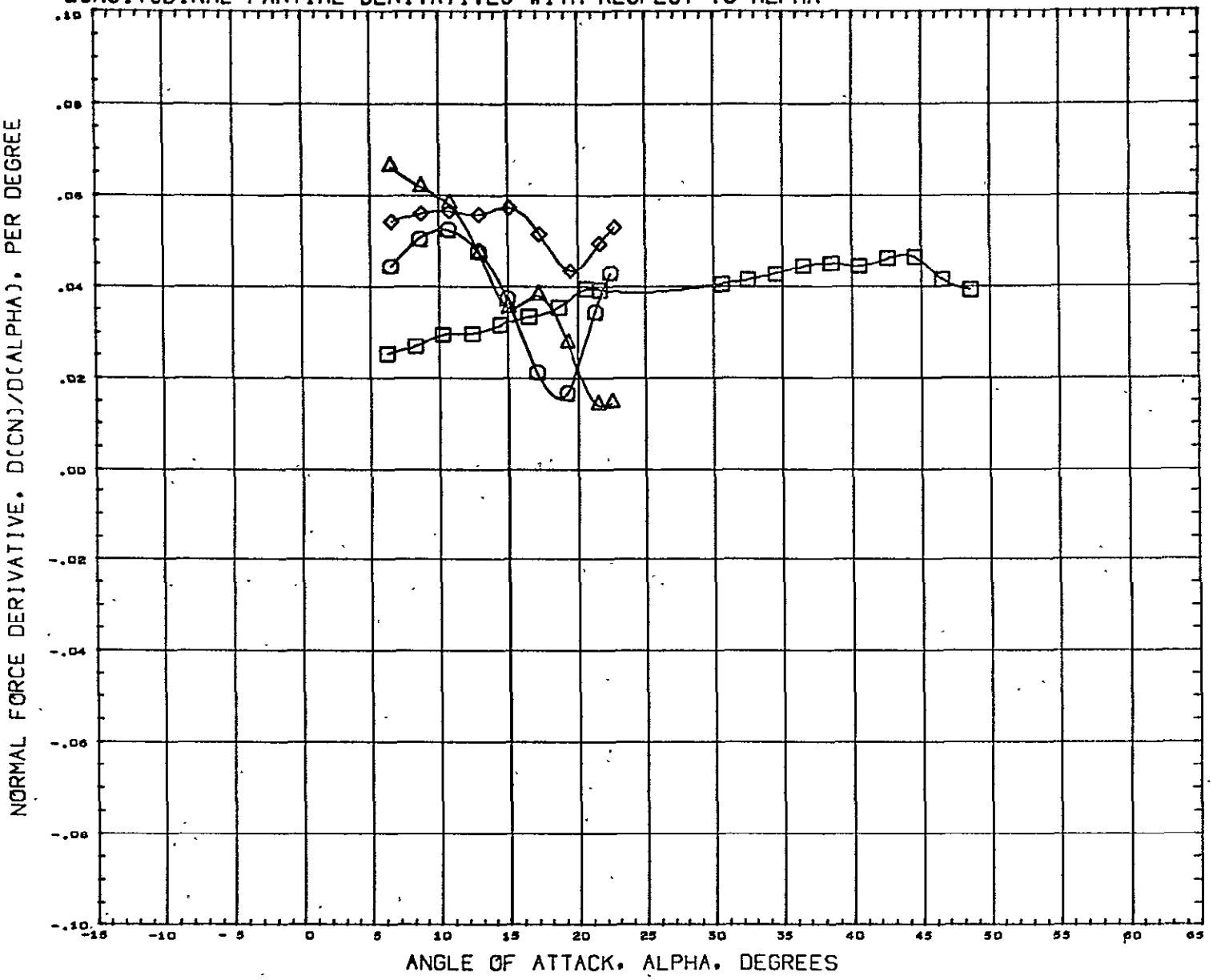
BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*GG

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA

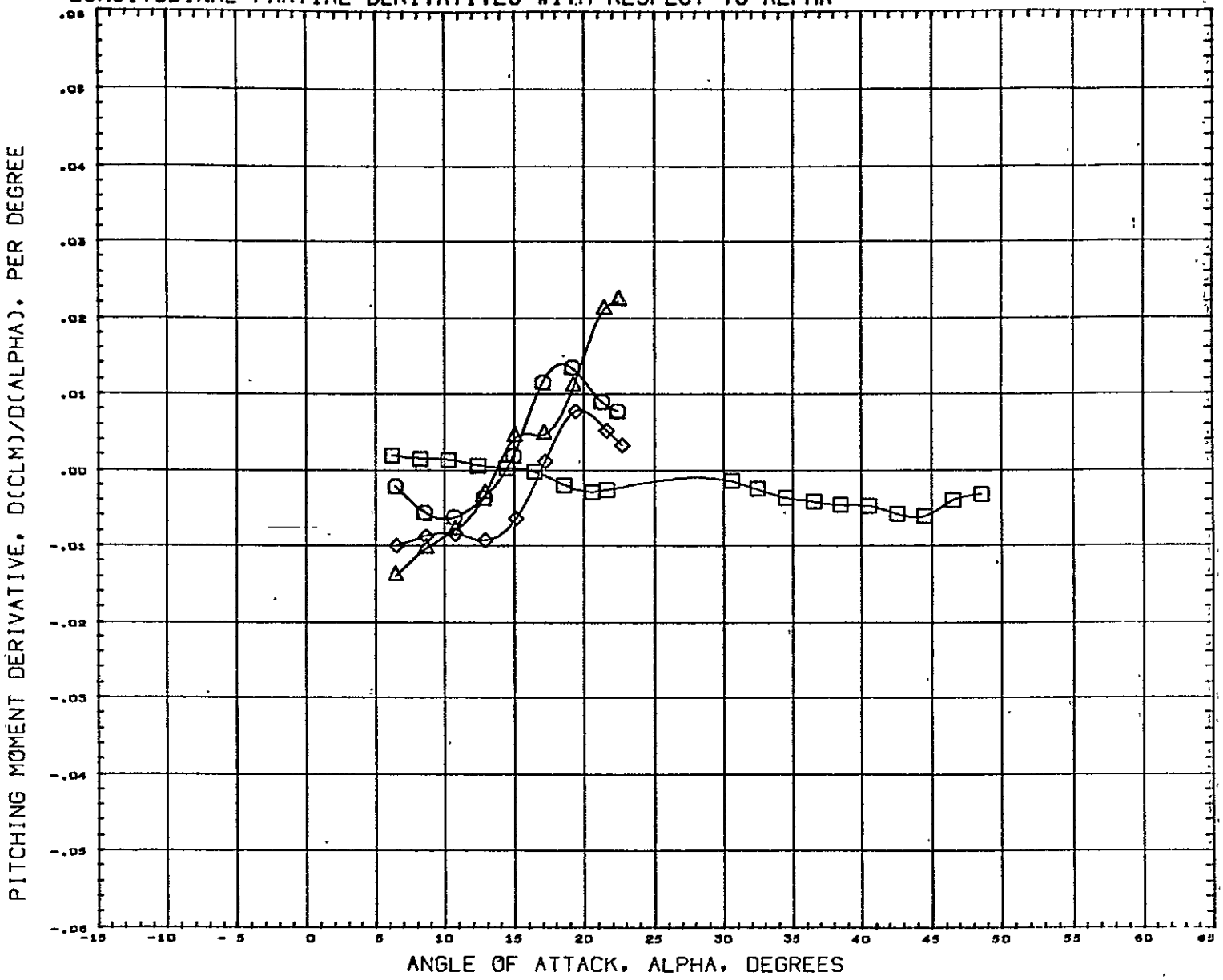


SYMBOL	MACH		PARAMETRIC VALUES		
○	0.899	BETA	0.000	DEL	10.000
△	1.003	DER	10.000	DCL	0.000
◇	1.197	DCR	0.000	ELEVON	10.000
□	2.990	CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*GG

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



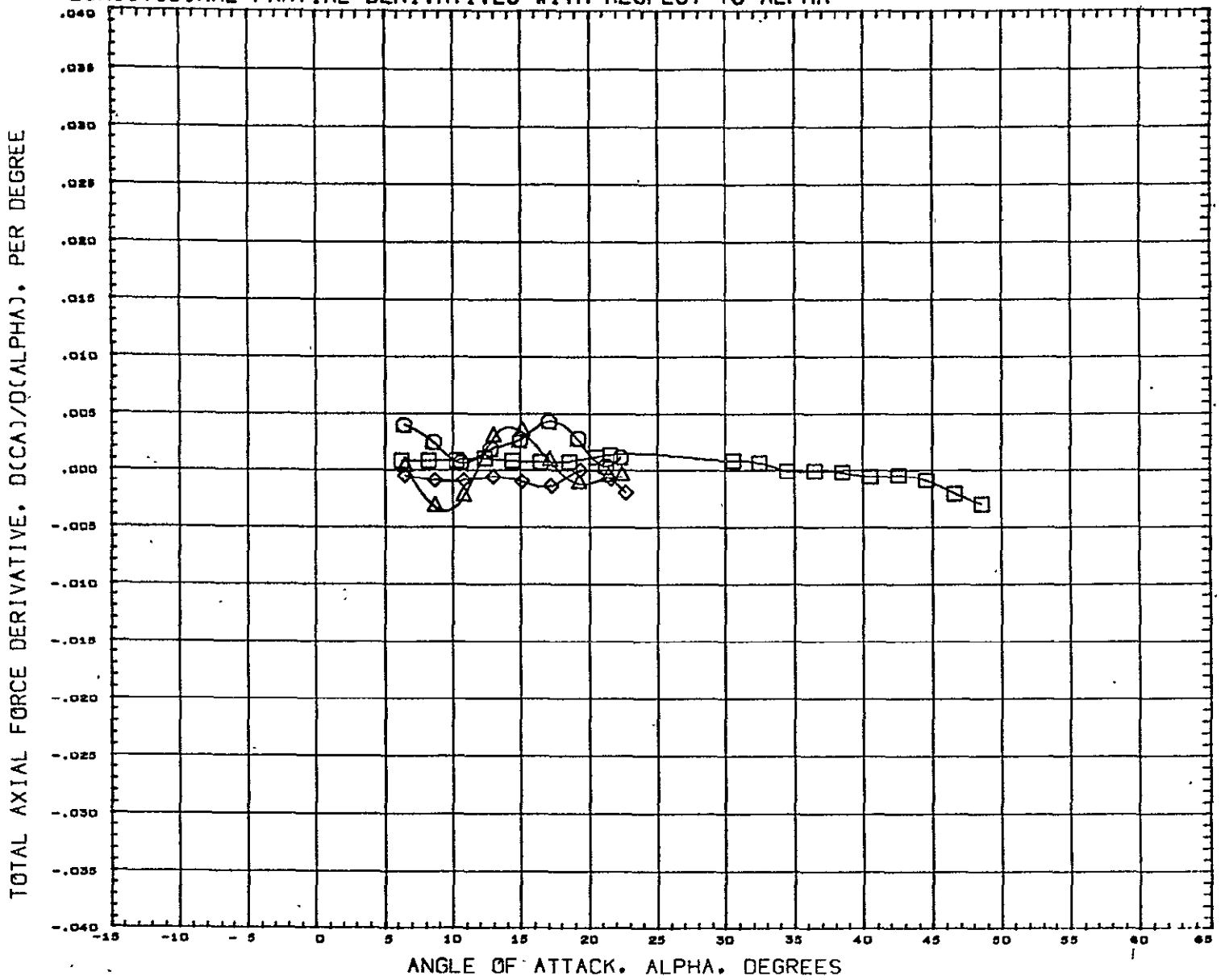
SYMBOL	MACH		PARAMETRIC VALUES		
○	0.899	BETA	0.000	DEL	10.000
△	1.003	DER	10.000	DCL	0.000
◇	1.197	DCR	0.000	ELEVON	10.000
□	2.990	CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*GG

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA

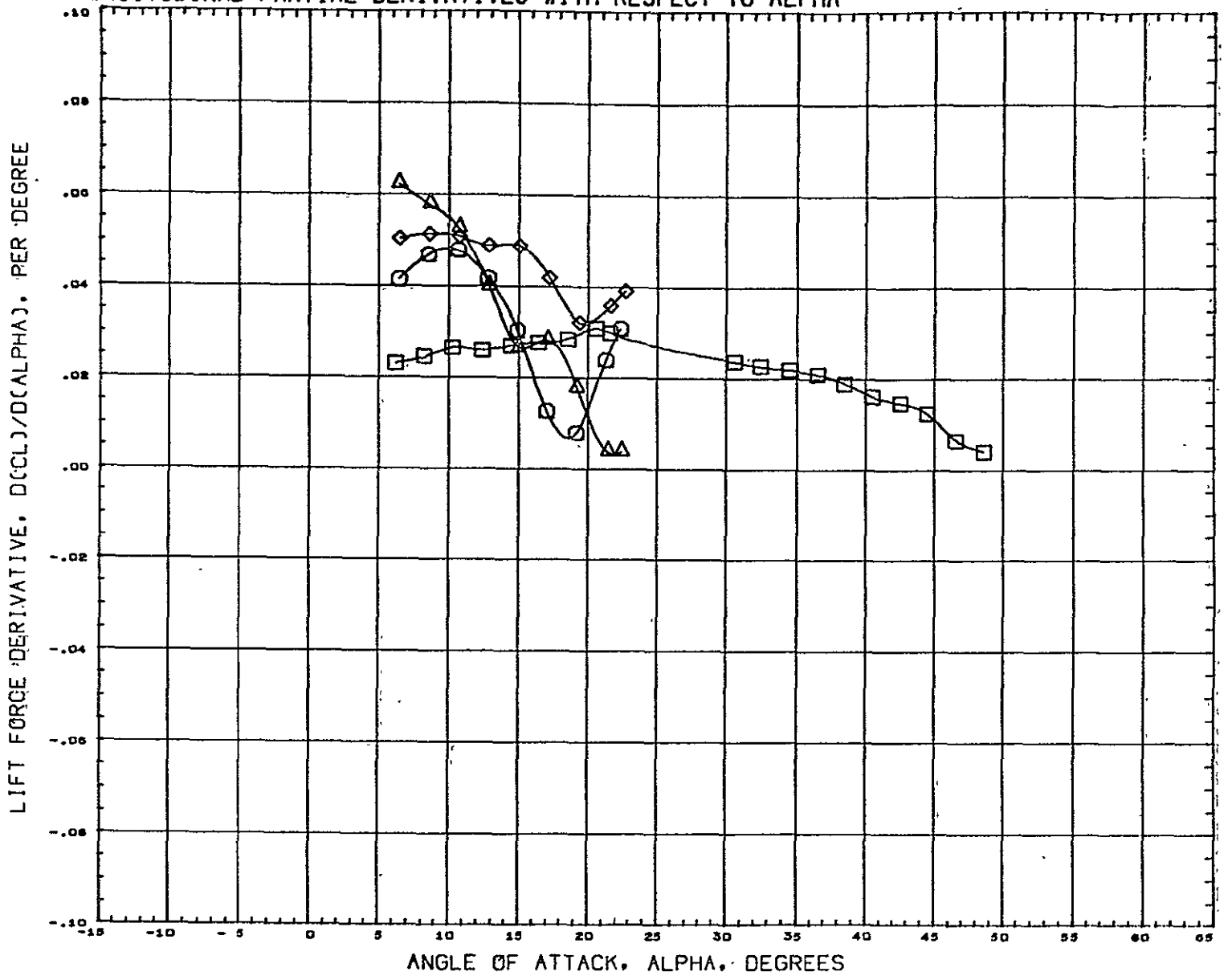


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.899	BETA	0.000	DEL	10.000
△	1.003	DER	10.000	DCL	0.000
◇	1.197	DCR	0.000	ELEVON	10.000
□	2.990	CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR0E4GG

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



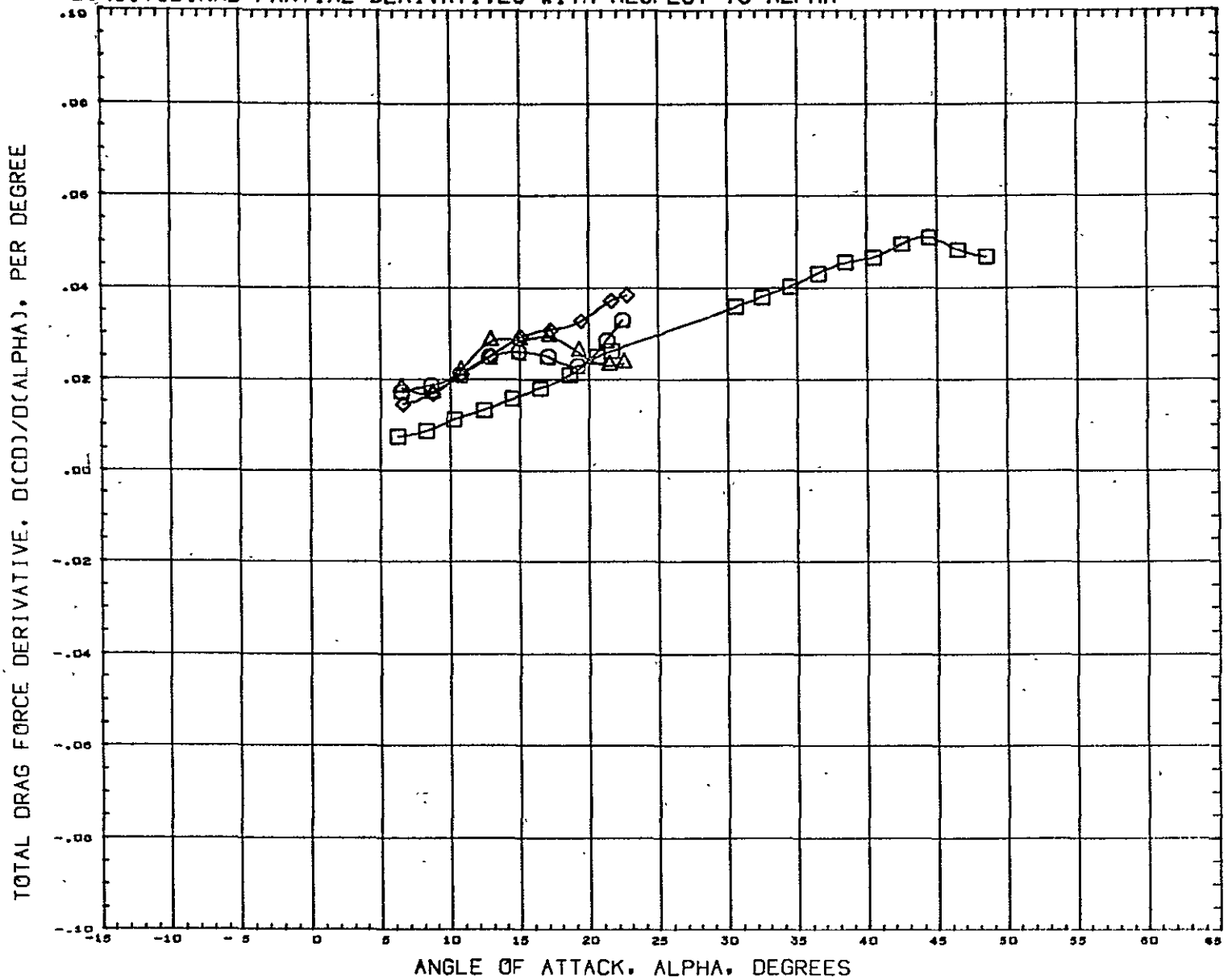
SYMBOL	MACH		PARAMETRIC VALUES		
○	0.899	BETA	0.000	DEL	10.000
△	1.003	DER	10.000	DCL	0.000
◇	1.197	DCR	0.000	ELEVON	10.000
□	2.990	CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E*CG

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



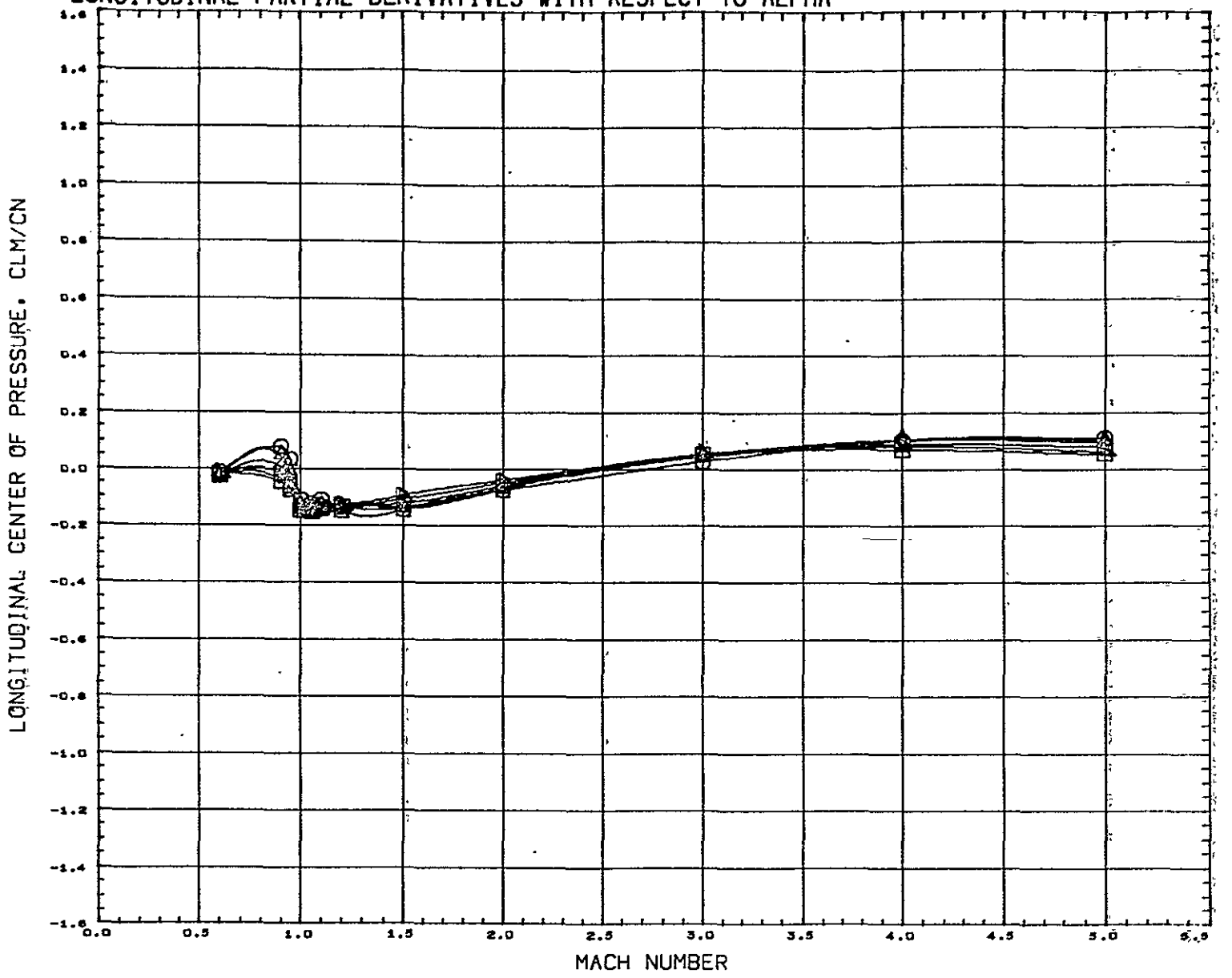
SYMBOL	MACH		PARAMETRIC VALUES		
○	0.899	BETA	0.000	DEL	10.000
△	1.003	DER	10.000	DCL	0.000
◇	1.197	DCR	0.000	ELEVON	10.000
□	2.990	CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*GG

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

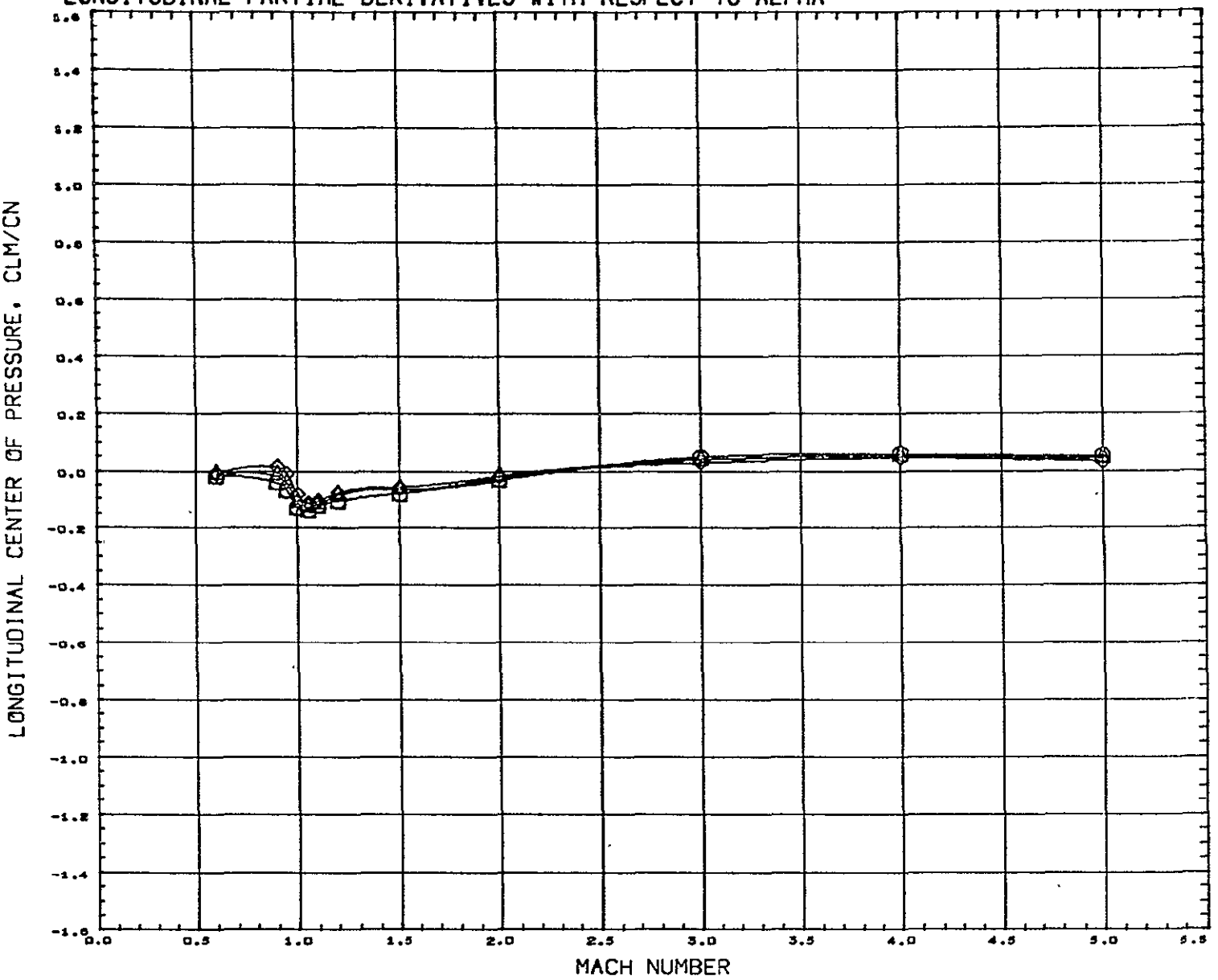
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA		PARAMETRIC VALUES		
○	6.000	BETA	0.000	DEL	0.000
△	8.000	DER	0.000	DCL	0.000
◇	10.000	DCR	0.000	ELEVON	0.000
□	12.000	CANARD	0.000	AILRON	0.000
▽	14.000				
D	16.000	DATA HIST. CODE		HVR*E*GI	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA

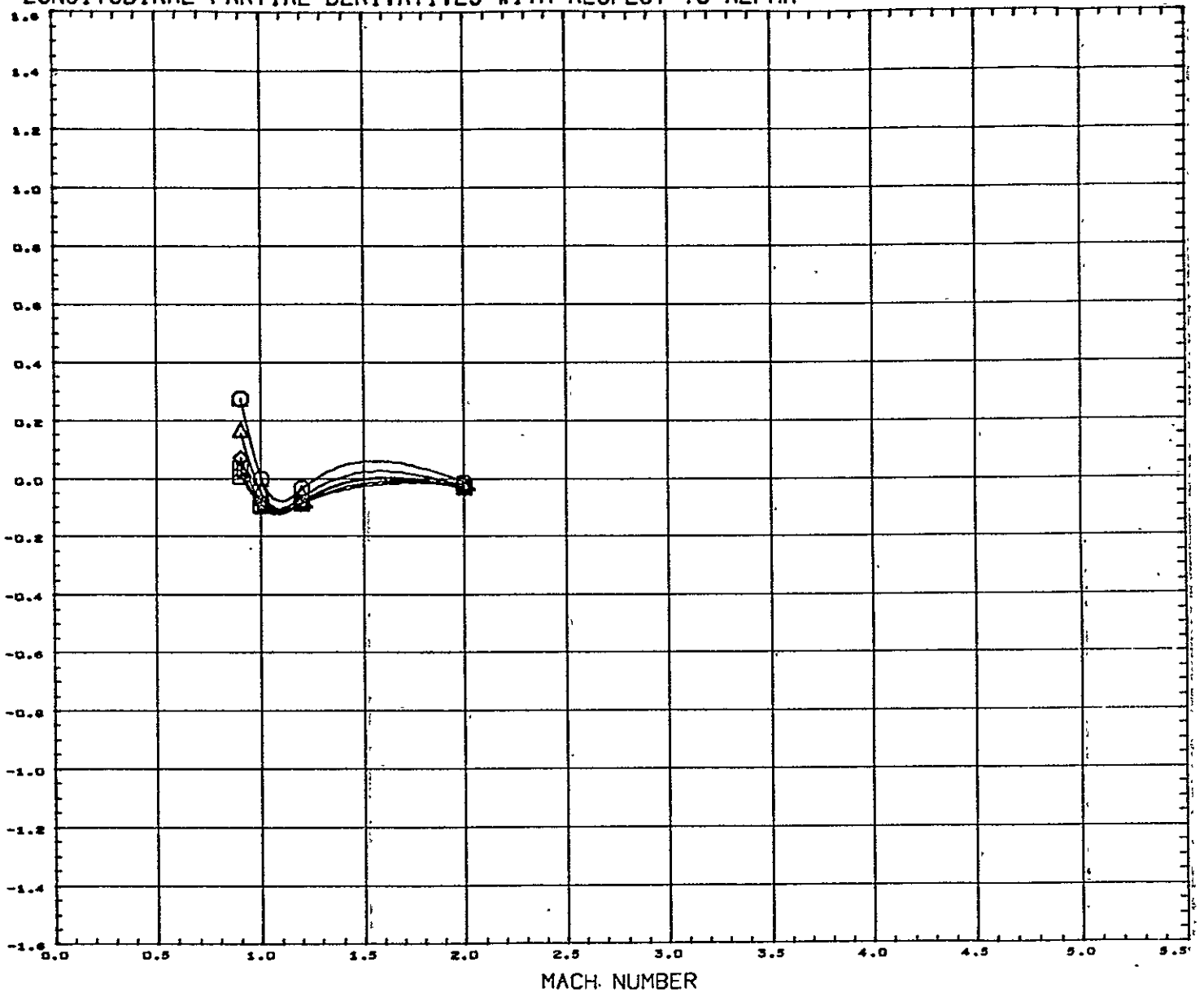


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	DCL	0.000
◇	22.000	DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*GI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

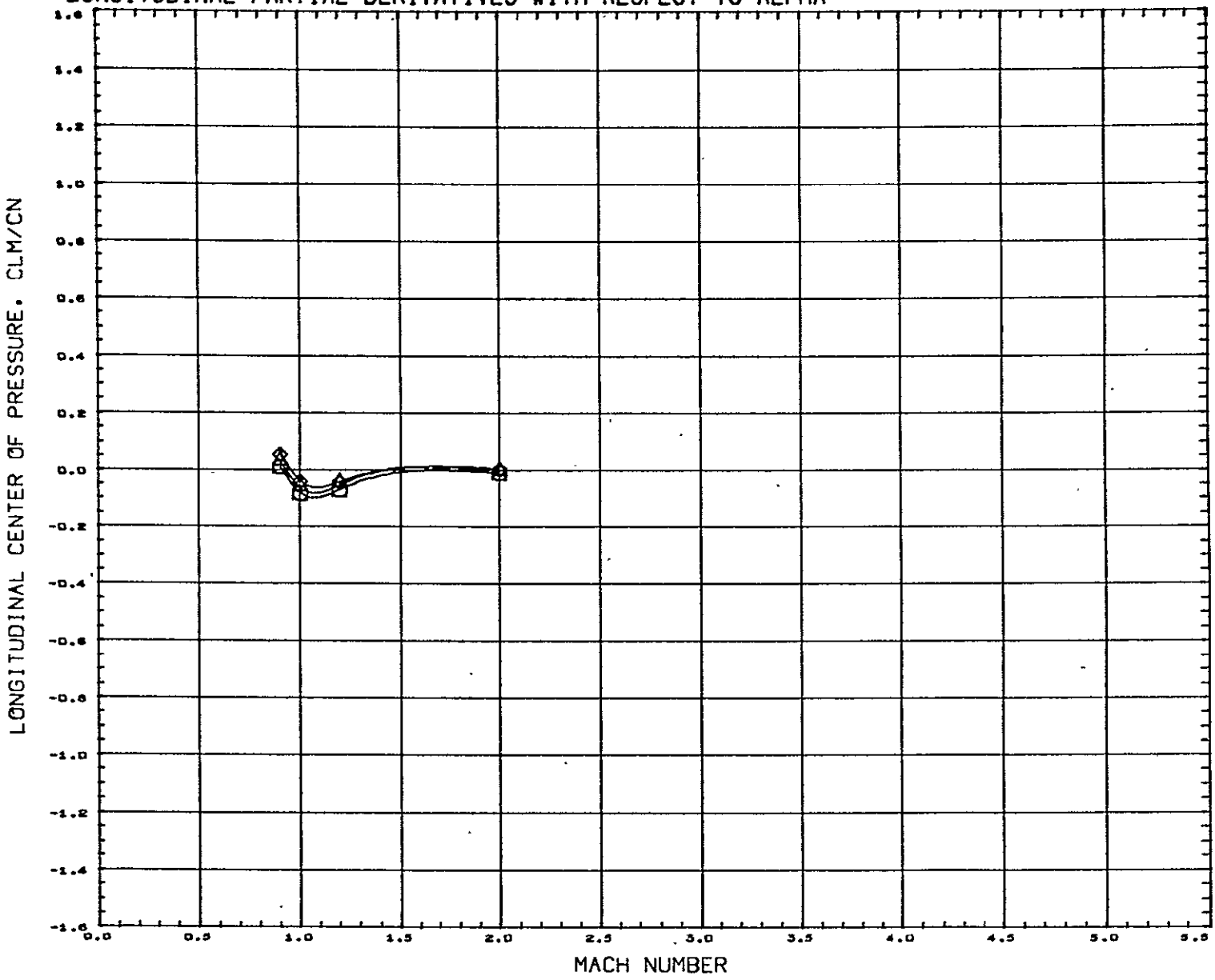
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA		PARAMETRIC VALUES		
○	6.000	BETA	0.000	DEL	0.000
△	8.000	DER	- 20.000	DCL	0.000
◇	10.000	DCR	0.000	ELEVON	- 10.000
□	12.000	CANARD	0.000	AILRON	10.000
▽	14.000				
D	16.000	DATA HIST. CODE		HVR*E*GI	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	18.000
△	20.000
◇	22.000

PARAMETRIC VALUES

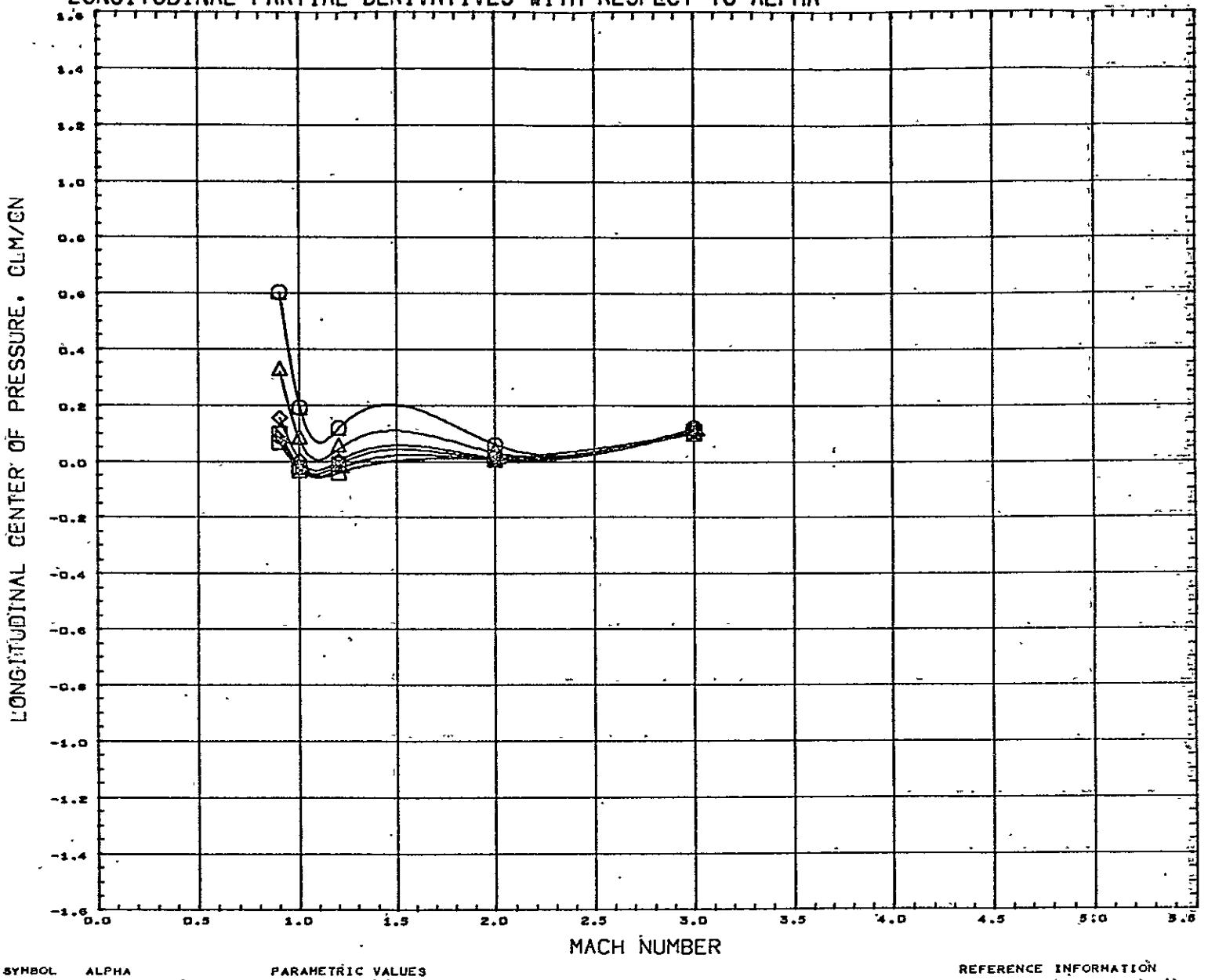
BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE HVR*E*GI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA	PARAMETRIC VALUES			
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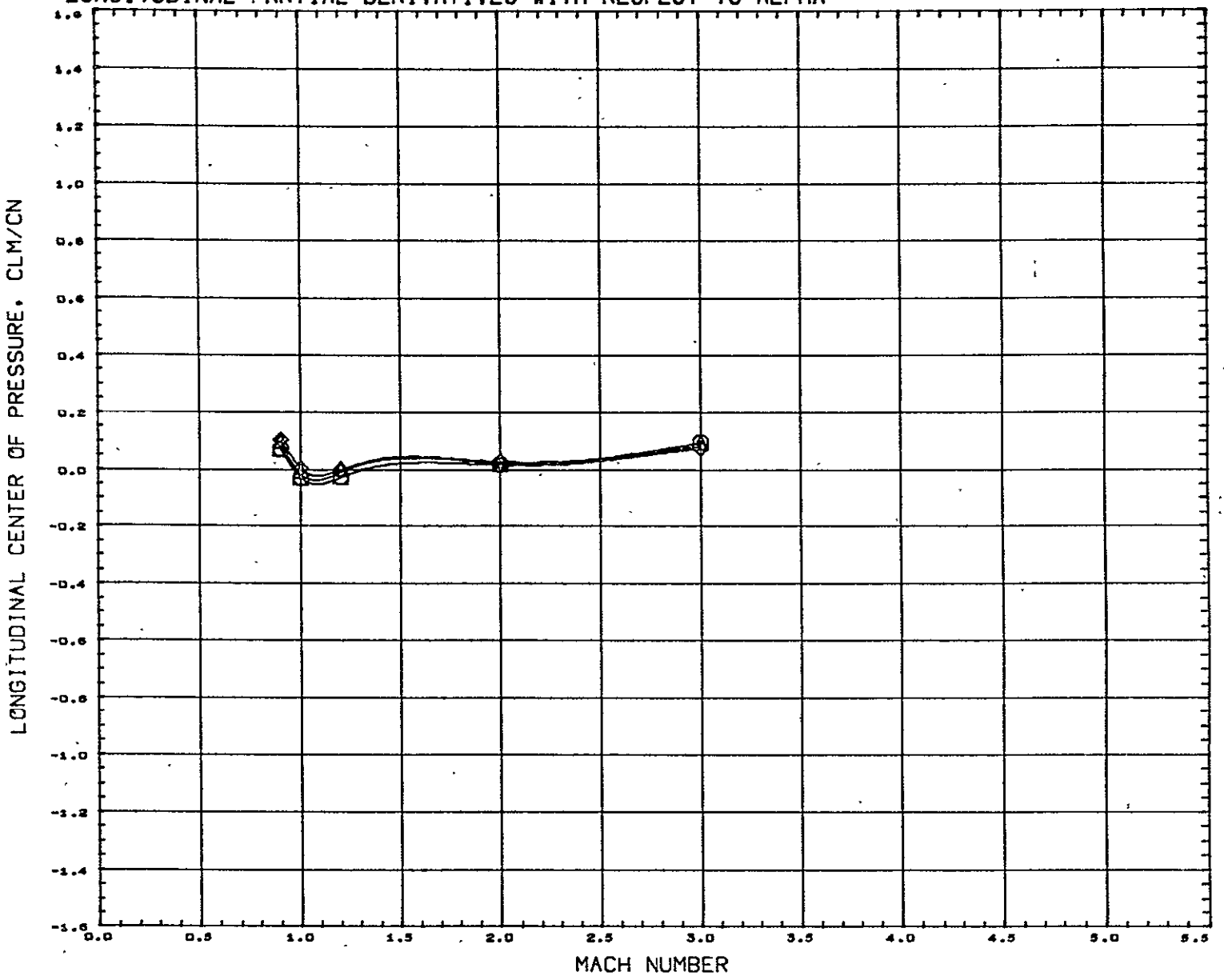
△	8.000	DER	- 20.000	DCL	0.000
◇	10.000	DCR	0.000	ELEVON	- 20.000
□	12.000	CANARD	0.000	AILRON	0.000
▽	14.000				
◻	16.000	DATA HIST. CODE		HVR*E*GI	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0033	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	16.000
△	20.000
◇	22.000

PARAMETRIC VALUES

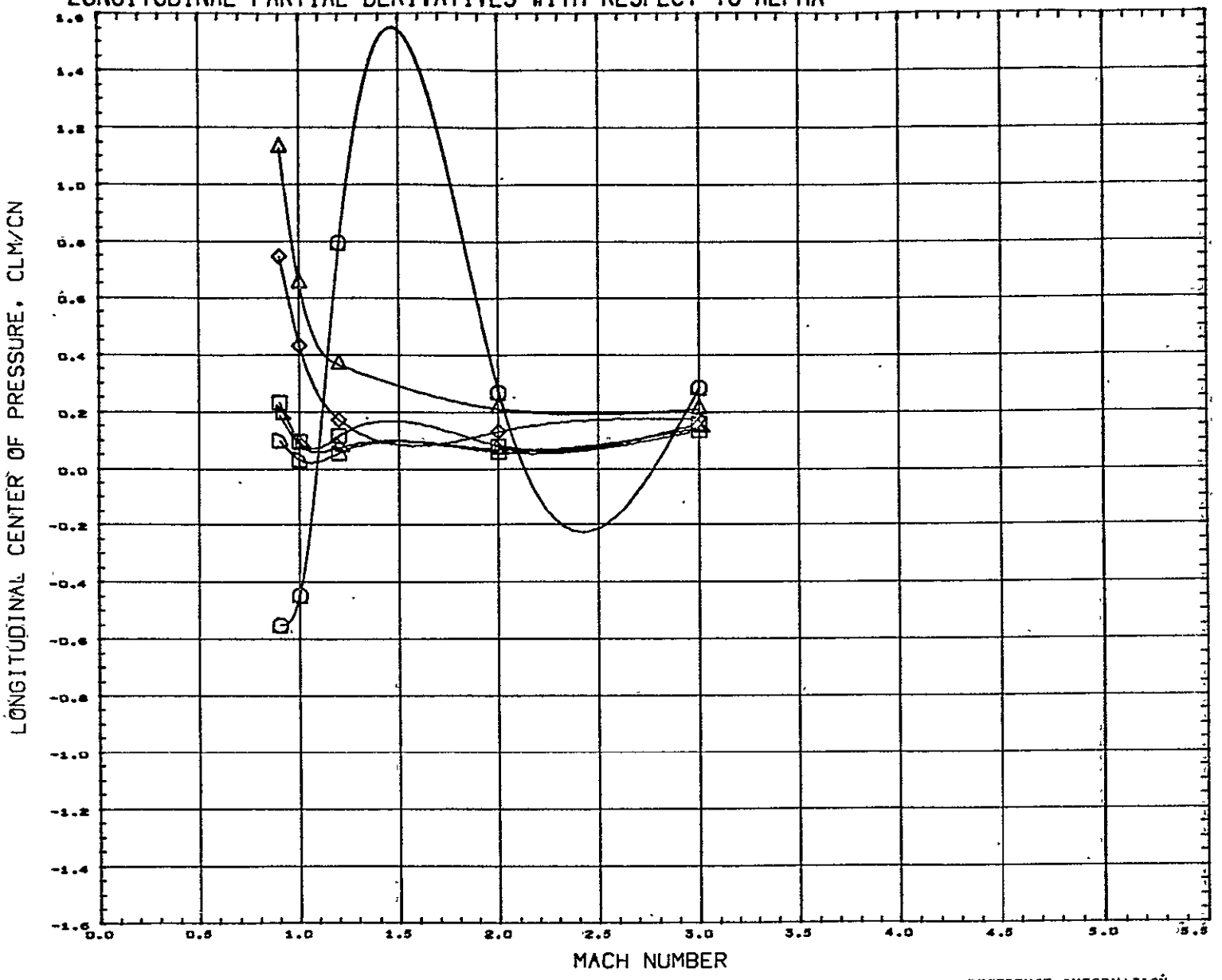
BETA	0.000	DEL	- 20.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*GI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	6.000
△	8.000
◇	10.000
□	12.000
▽	14.000
D	16.000

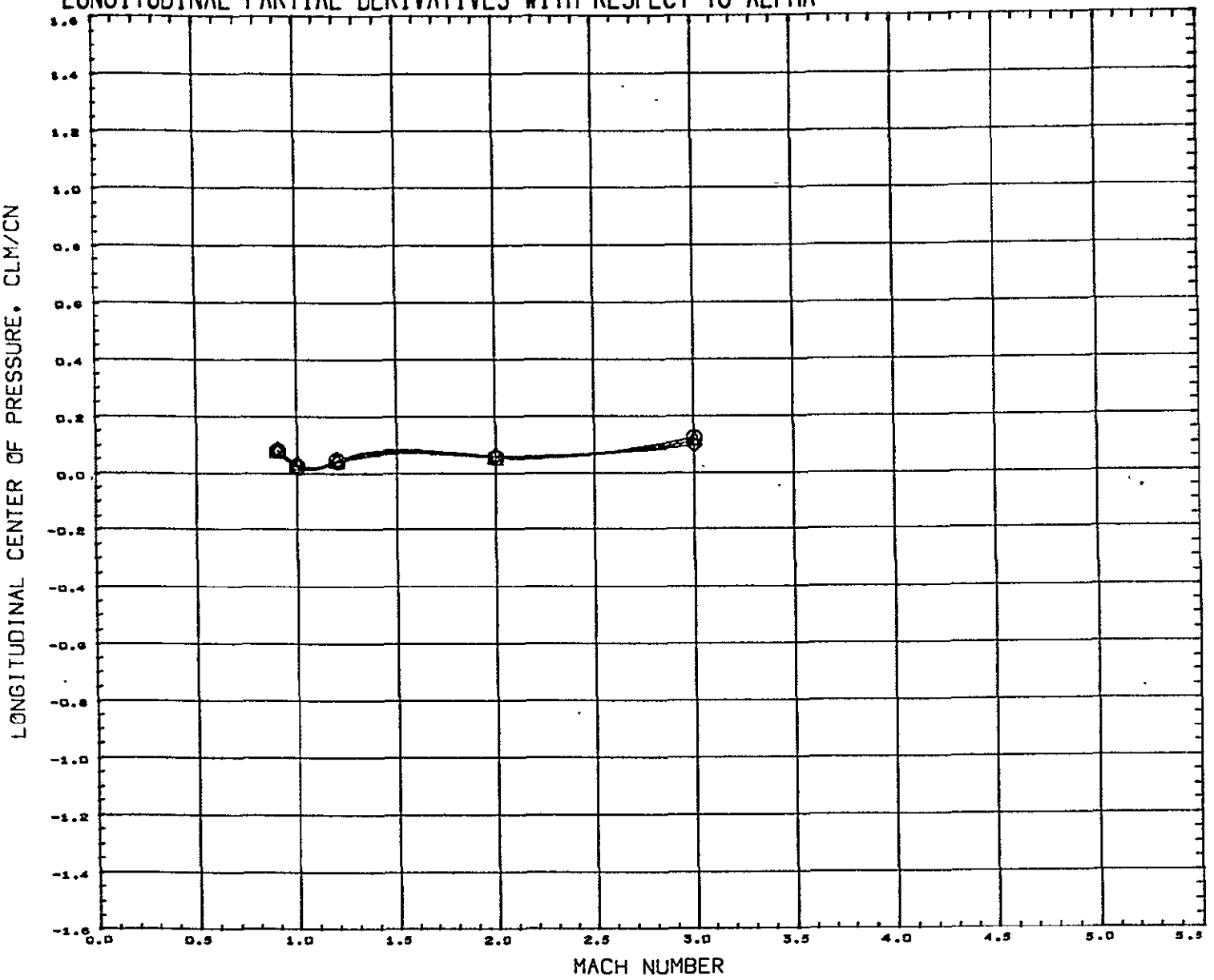
PARAMETRIC VALUES

BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000
DATA HIST. CODE		MVR*E*GI	

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



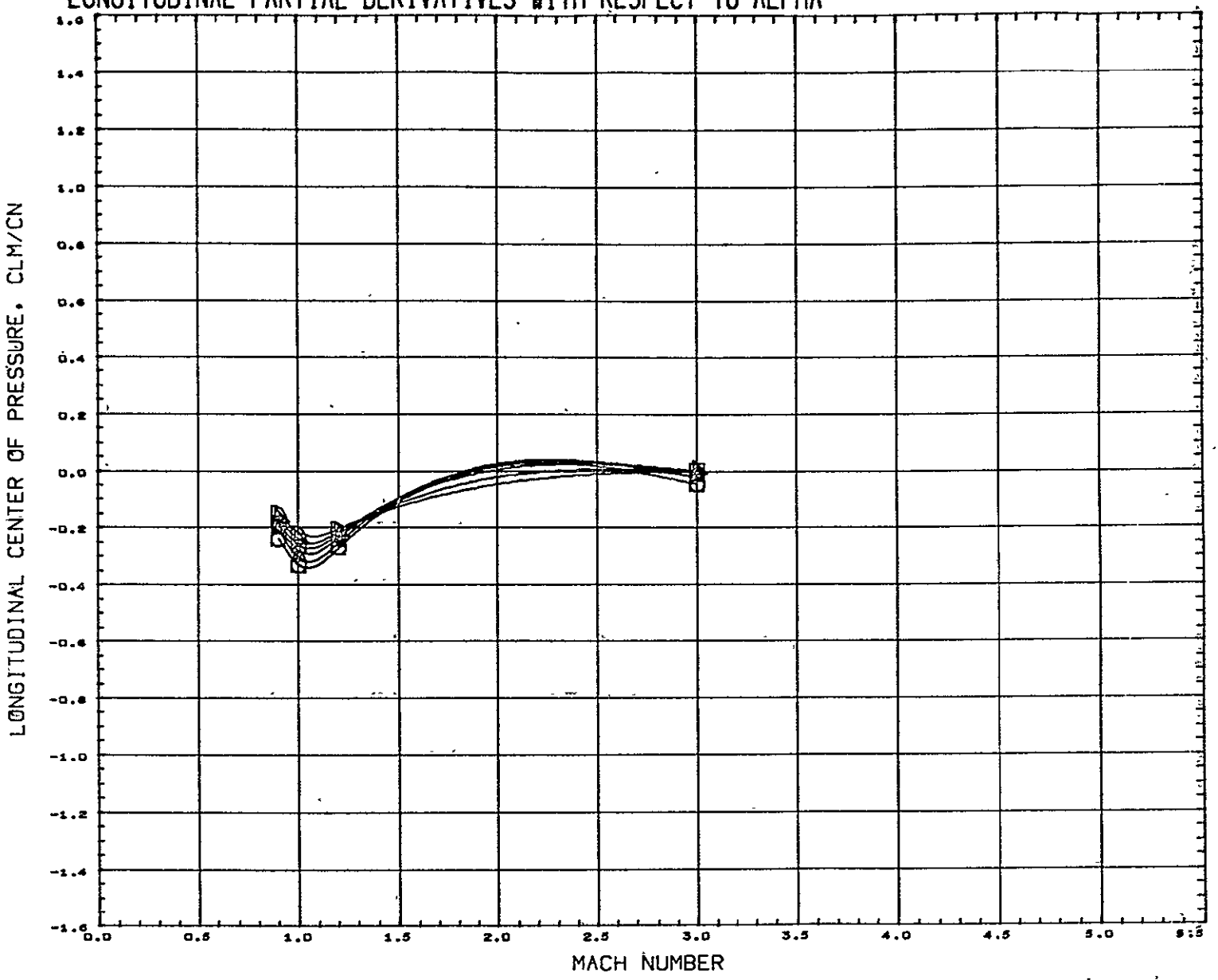
SYMBOL	ALPHA	PARAMETRIC VALUES			
○	16.000	BETA	0.000	DEL	- 60.000
△	20.000	DER	- 60.000	DCL	0.000
◇	22.000	DCR	0.000	ELEVON	- 60.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*GI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

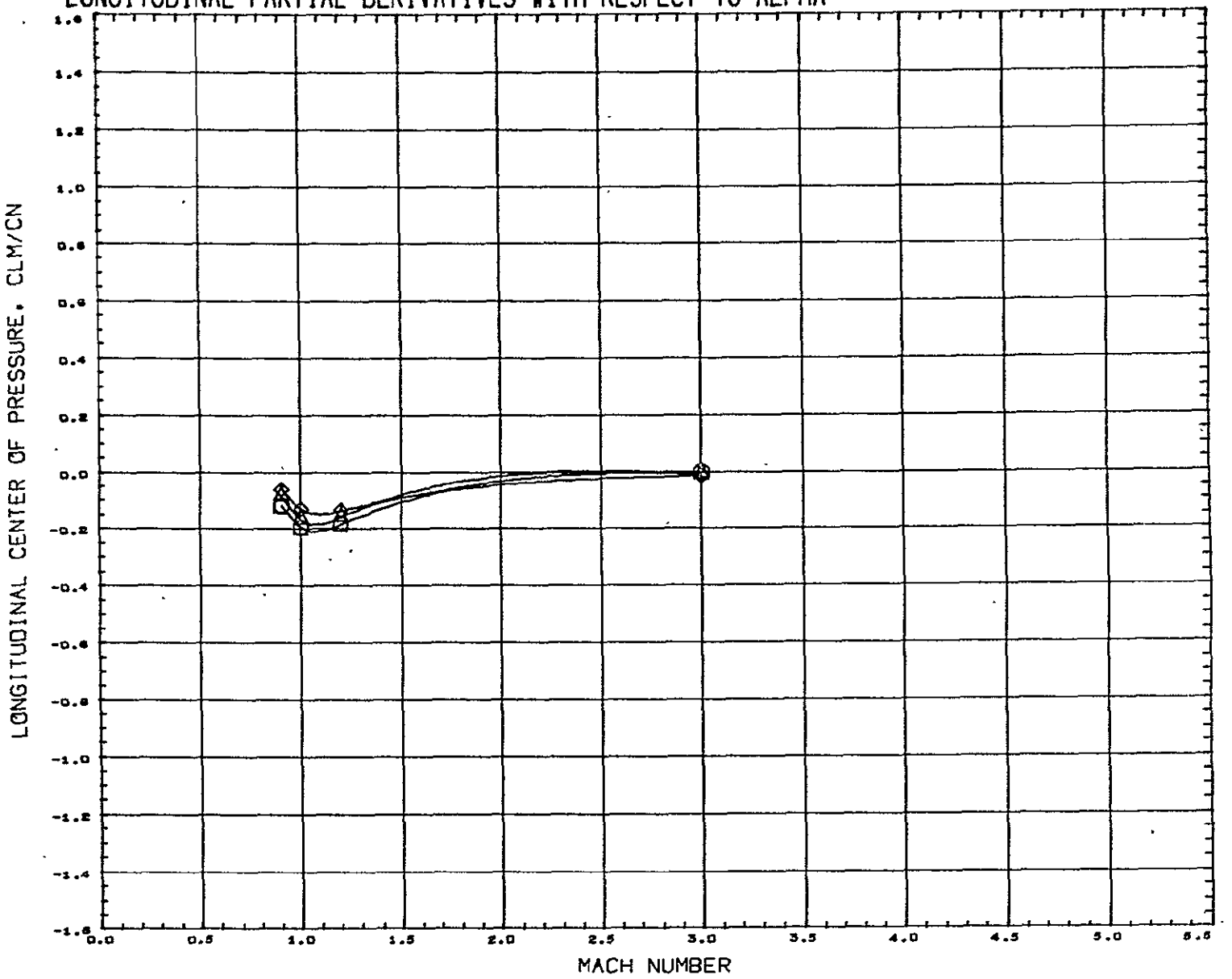
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA		PARAMETRIC VALUES		
○	6.000	BETA	0.000	DEL	10.000
△	8.000	DER	10.000	DCL	0.000
◇	10.000	DCR	0.000	ELEVON	10.000
□	12.000	CANARD	0.000	AILRON	0.000
▽	14.000				
▷	16.000	DATA HIST. CODE		HVR*E*GI	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



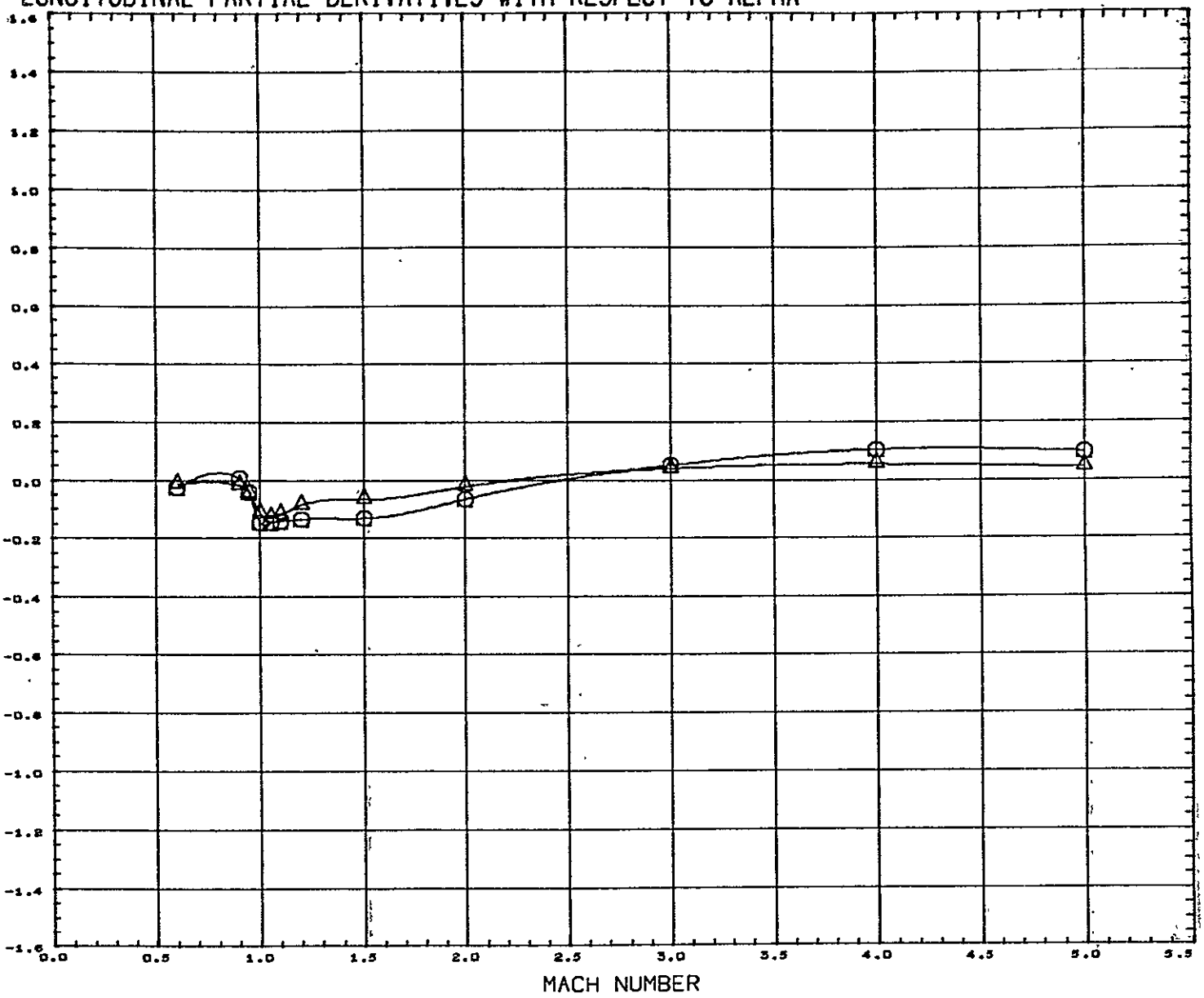
SYMBOL	ALPHA		PARAMETRIC VALUES		
○	16.000	BETA	0.000	DEL	10.000
△	20.000	DER	10.000	DCL	0.000
◇	22.000	DCR	0.000	ELEVON	10.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*GI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA

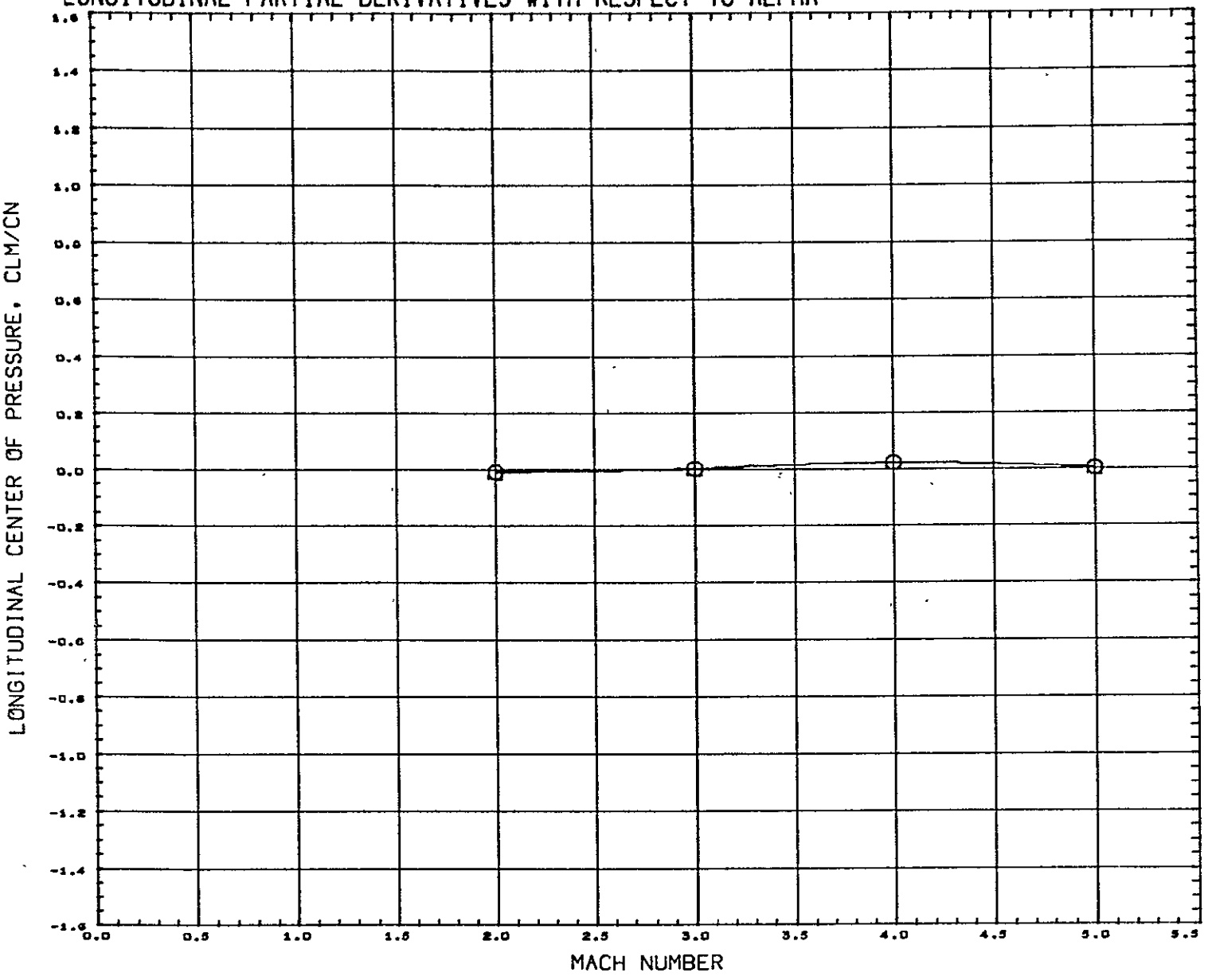


SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	DCL	0.000
		DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR6EI

REFERENCE INFORMATION		
SREF	15.6560	SQ. IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA	PARAMETRIC VALUES			
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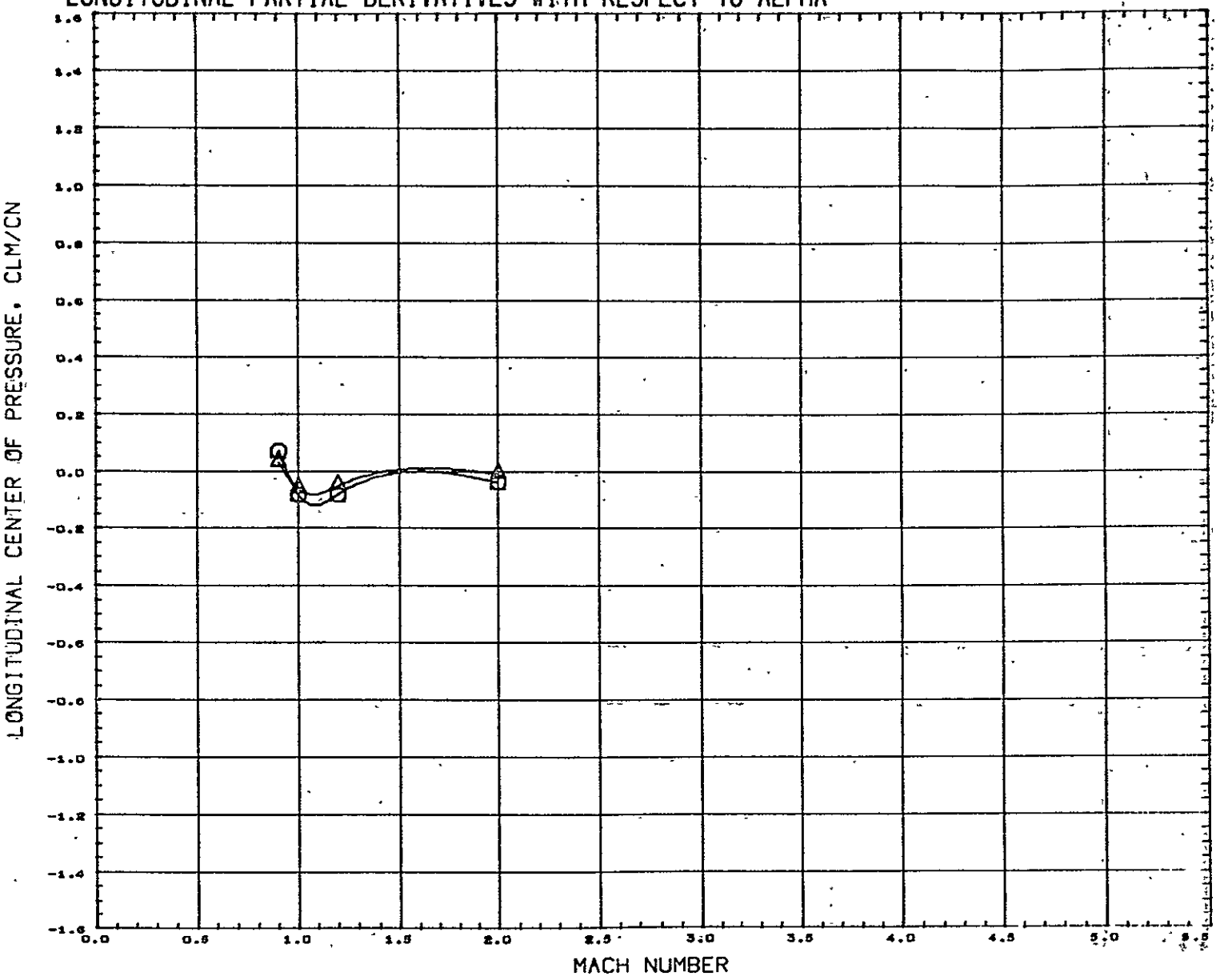
		DER	0.000	DCL	0.000
		DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

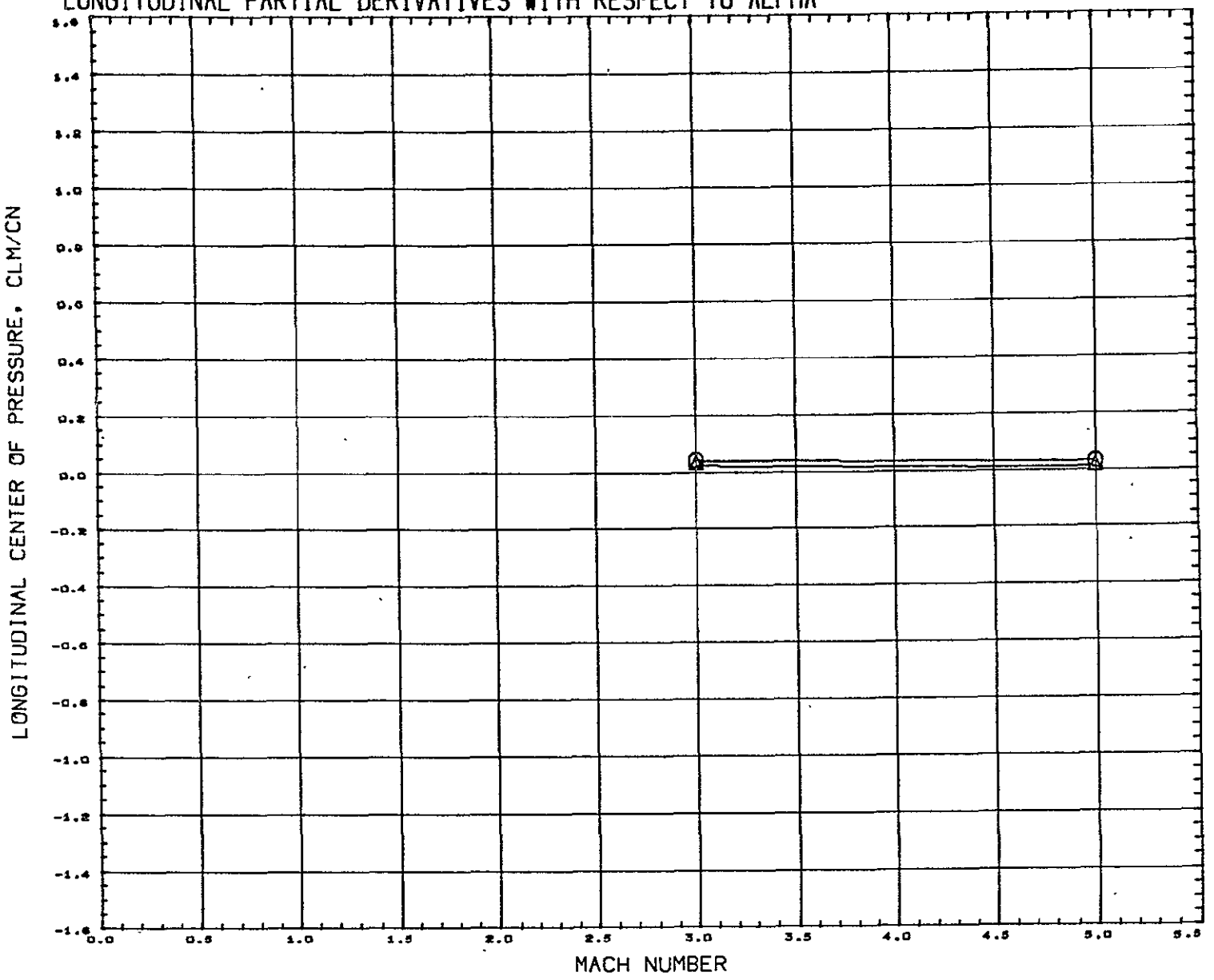
BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

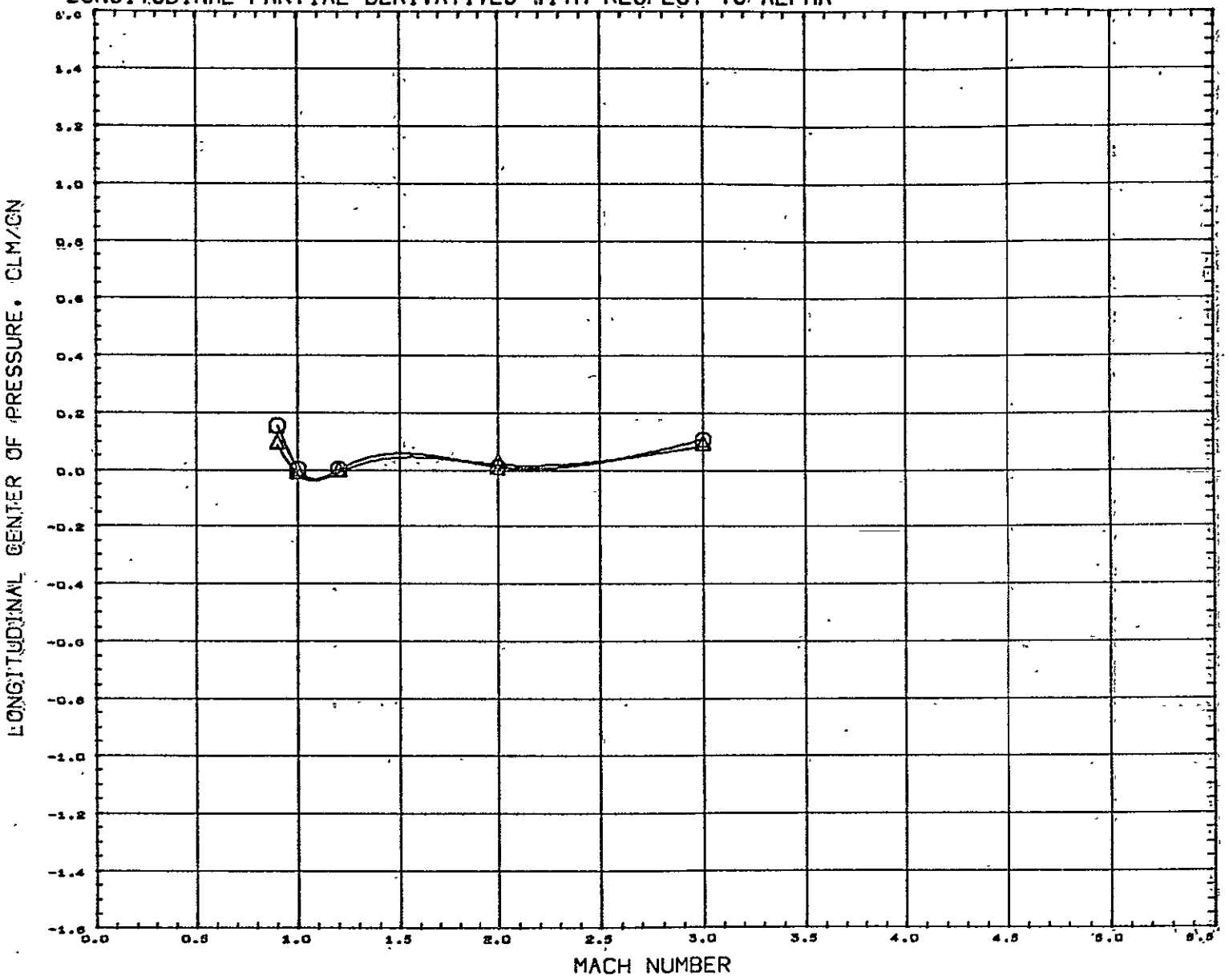
BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

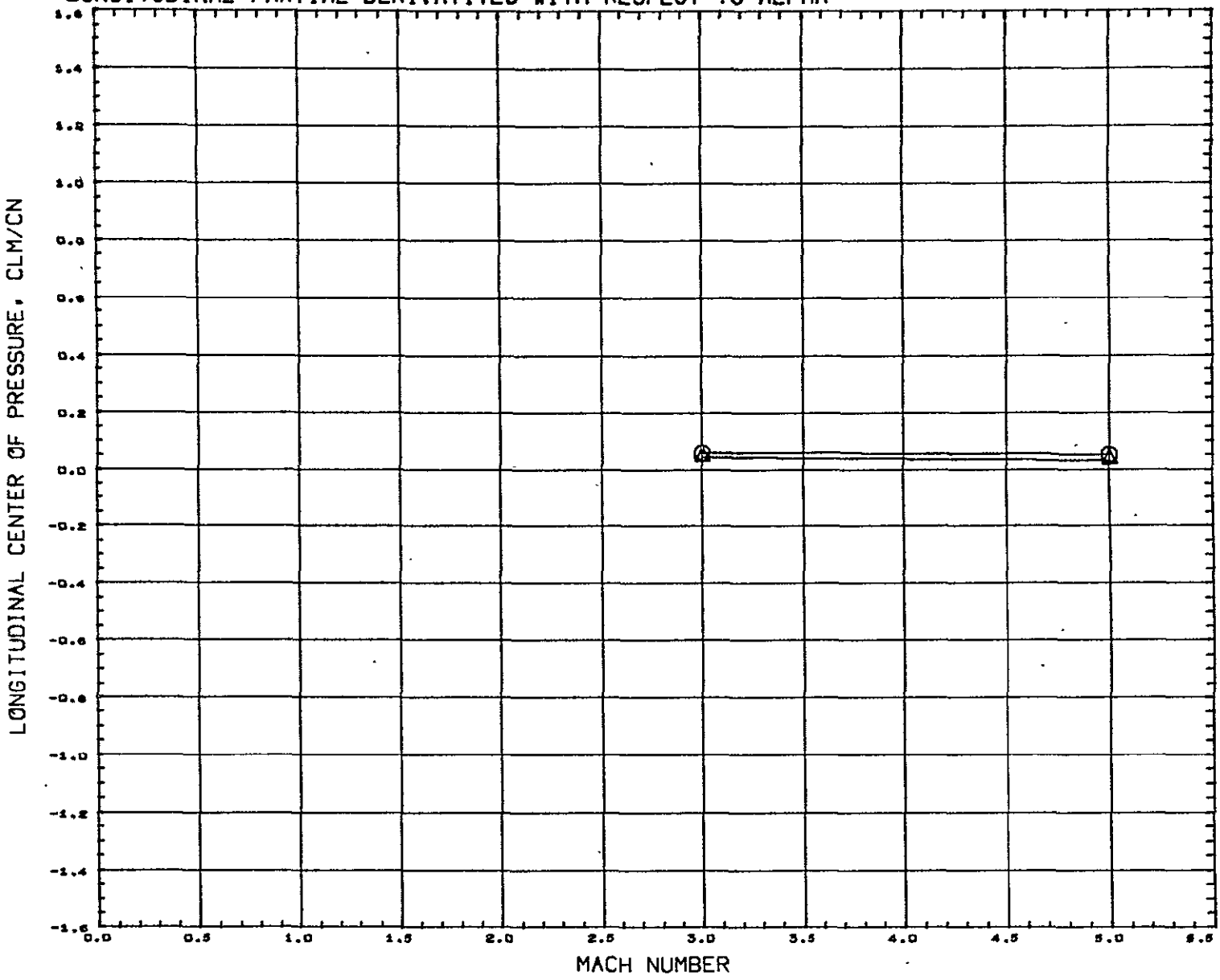
BETA	0.000	DEL	- 20.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

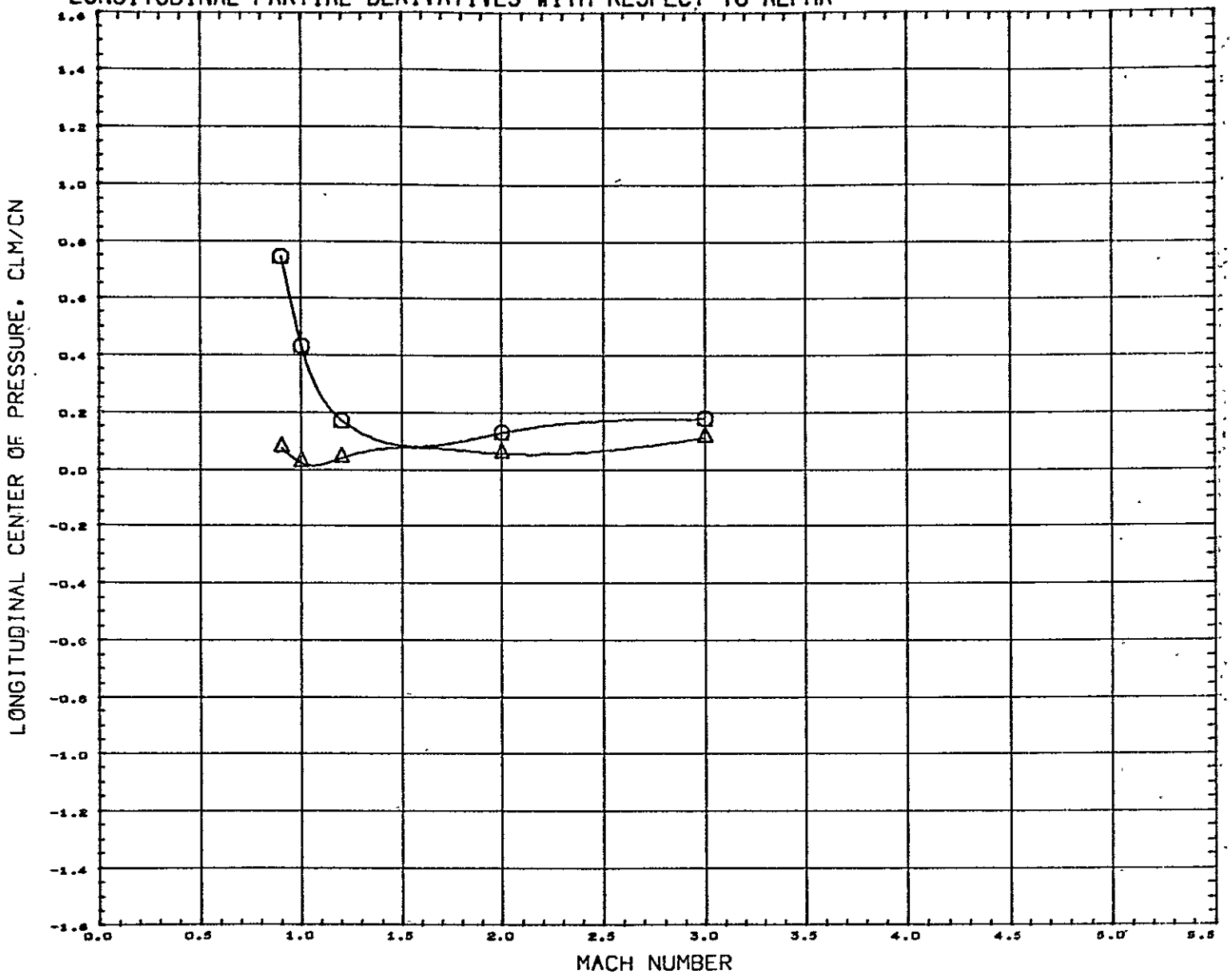
BETA	0.000	DEL	- 20.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

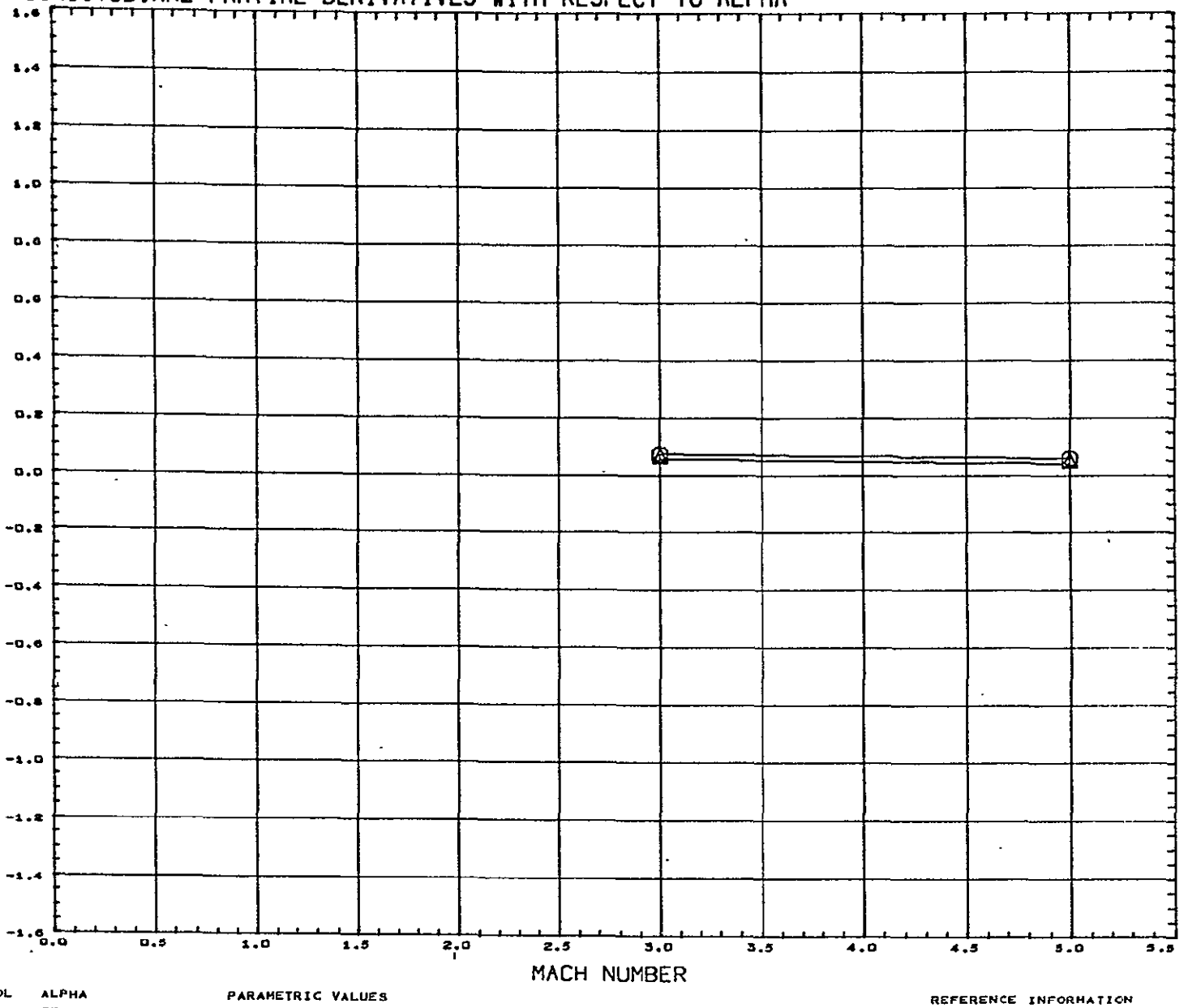
BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
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△	40.000

PARAMETRIC VALUES

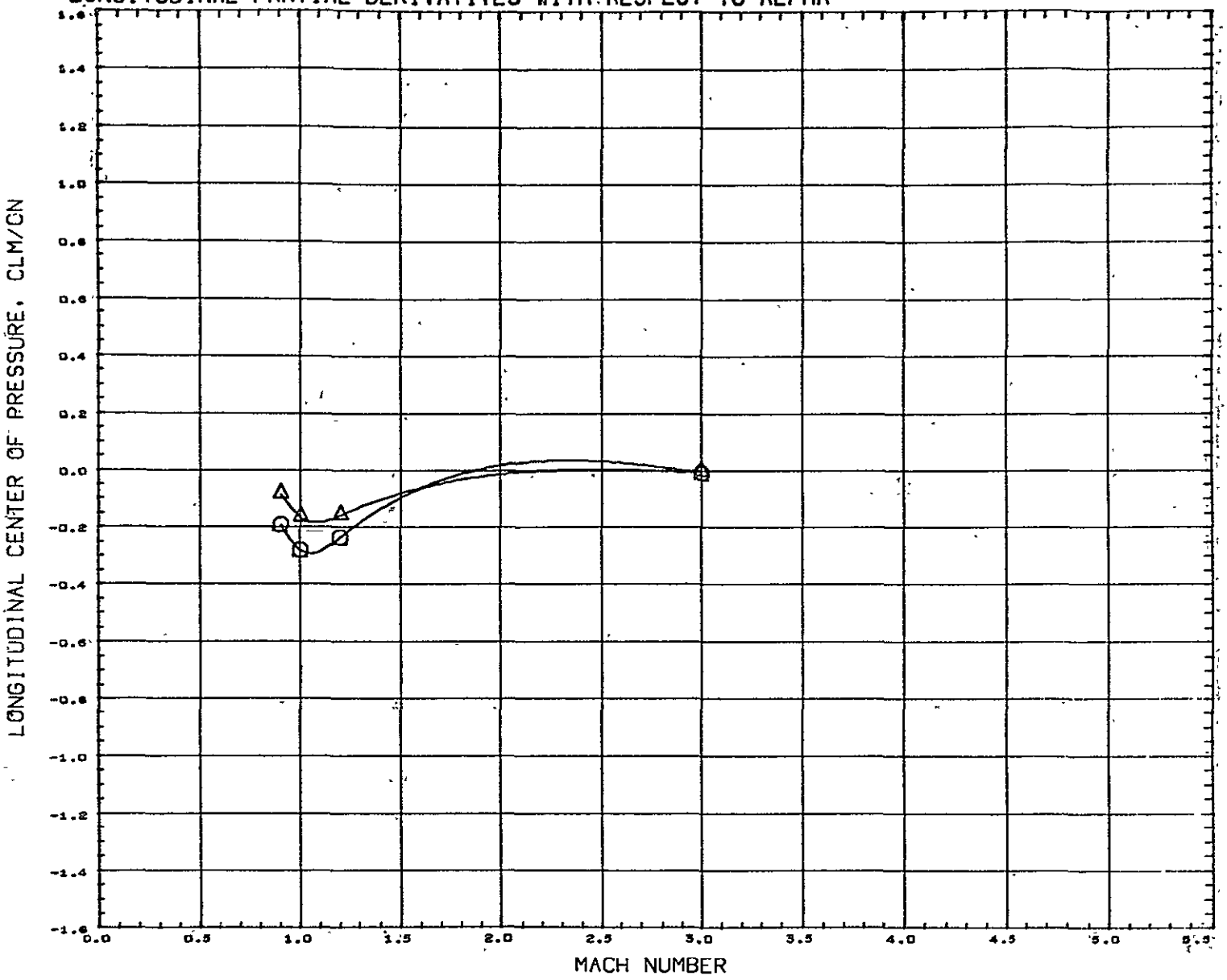
BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

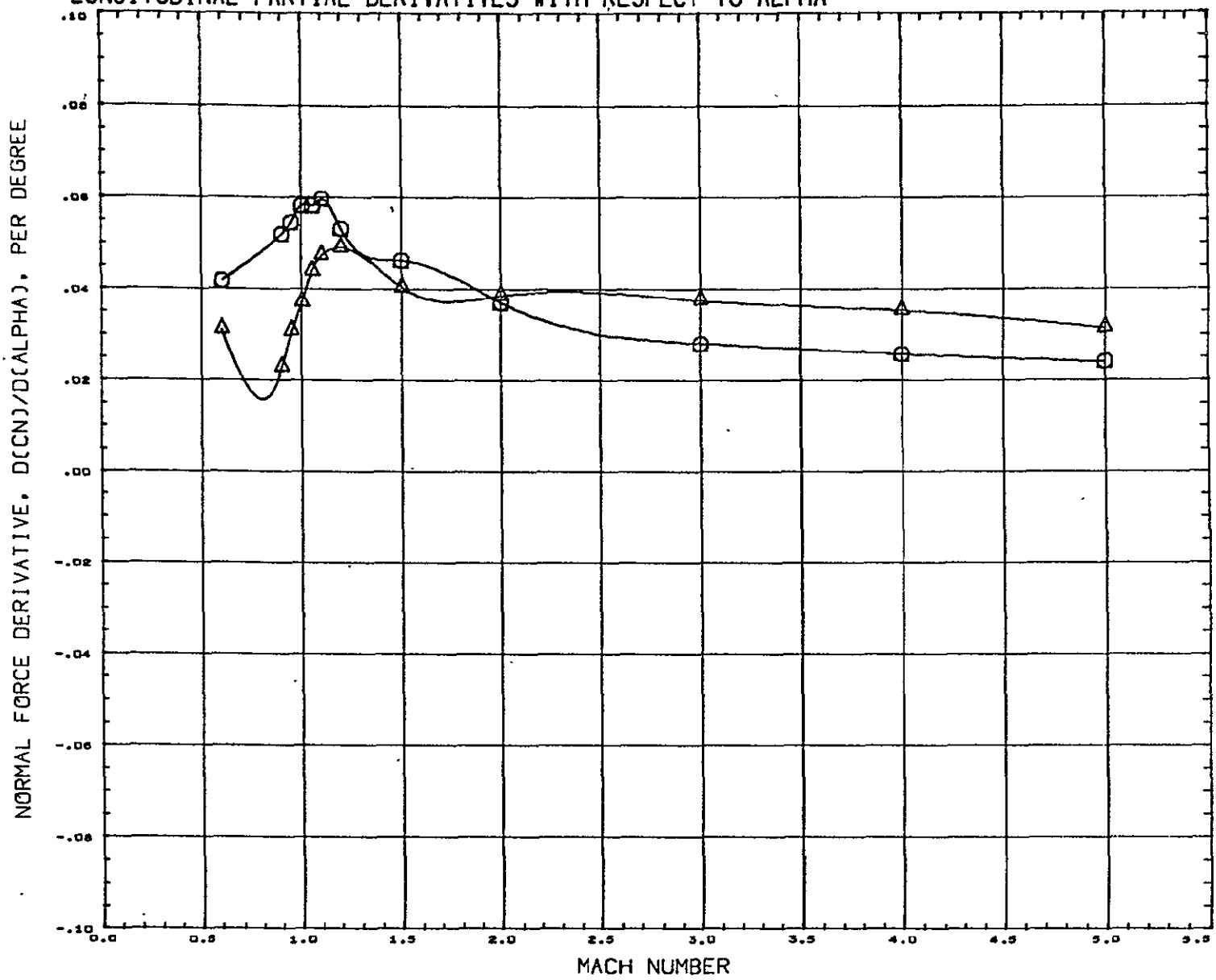
BETA	0.000	DEL	10.000
DER	10.000	DCL	0.000
DCR	0.000	ELEVON	10.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

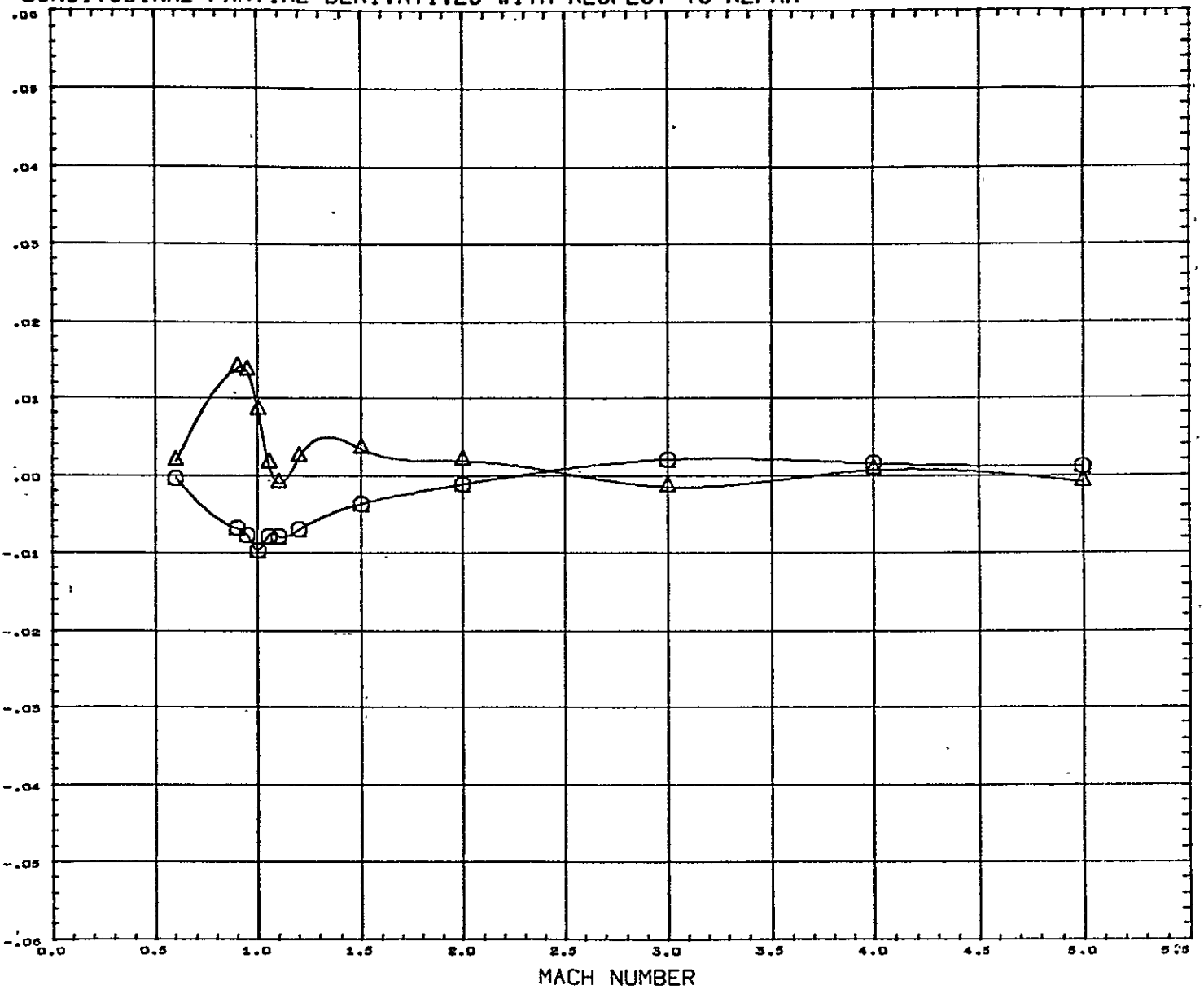
BETA	0.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA	PARAMETRIC VALUES			
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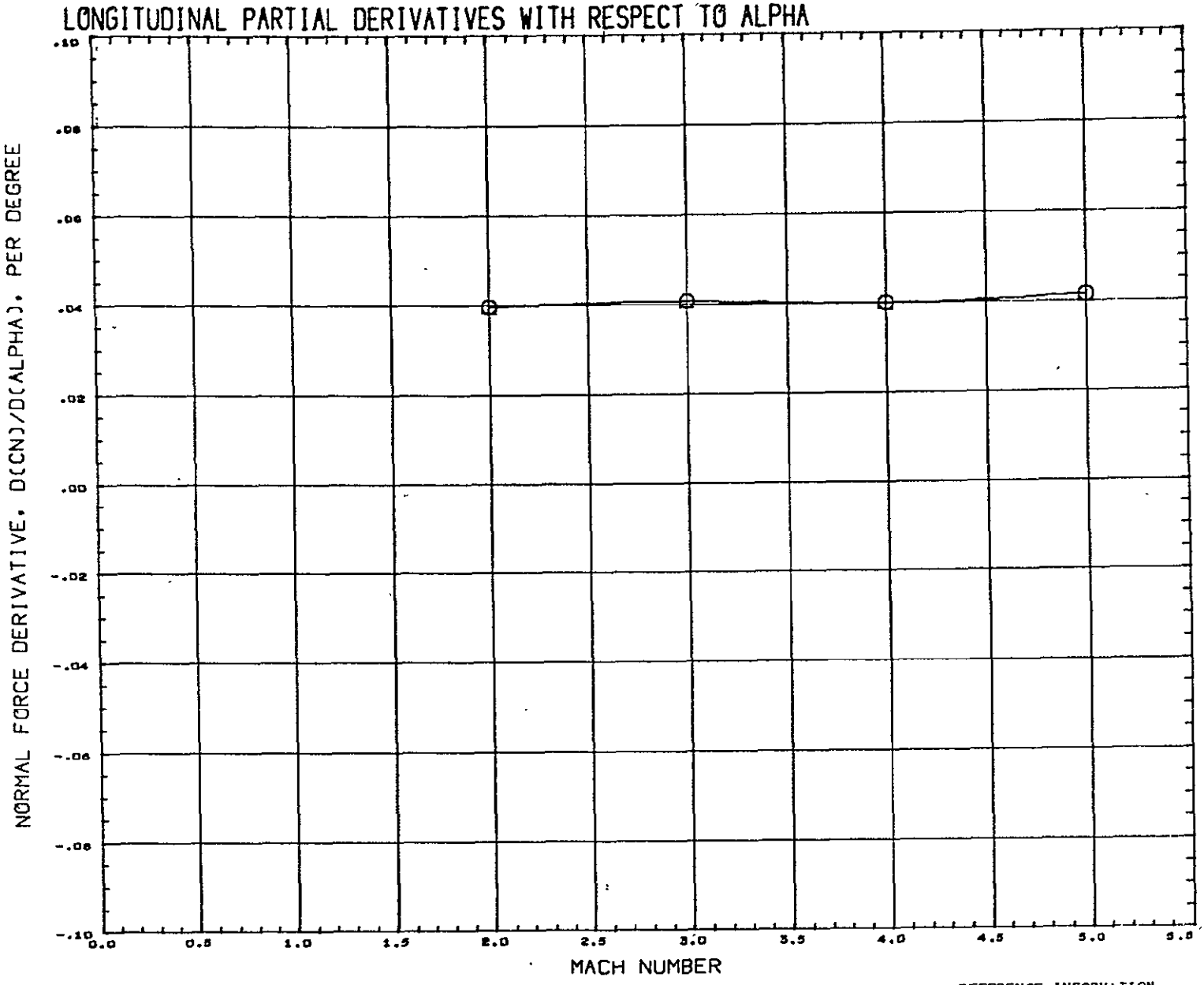
△	20.000	DER	0.000	DCL	0.000
		DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EG1

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



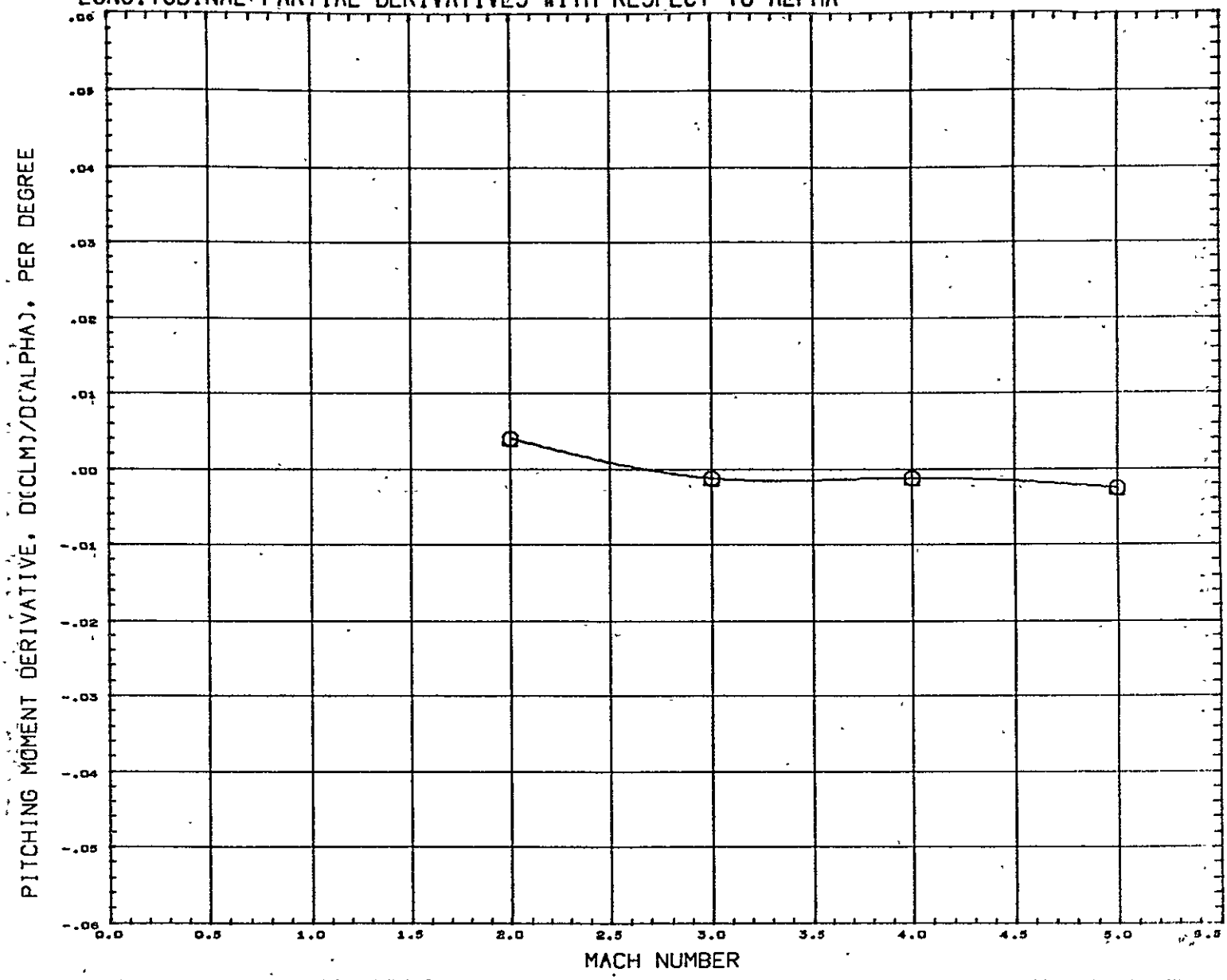
SYMBOL	ALPHA	PARAMETRIC VALUES			
O	30.000	BETA	0.000	DEL	0.000
		DER	0.000	DCL	0.000
		DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA	PARAMETRIC VALUES			
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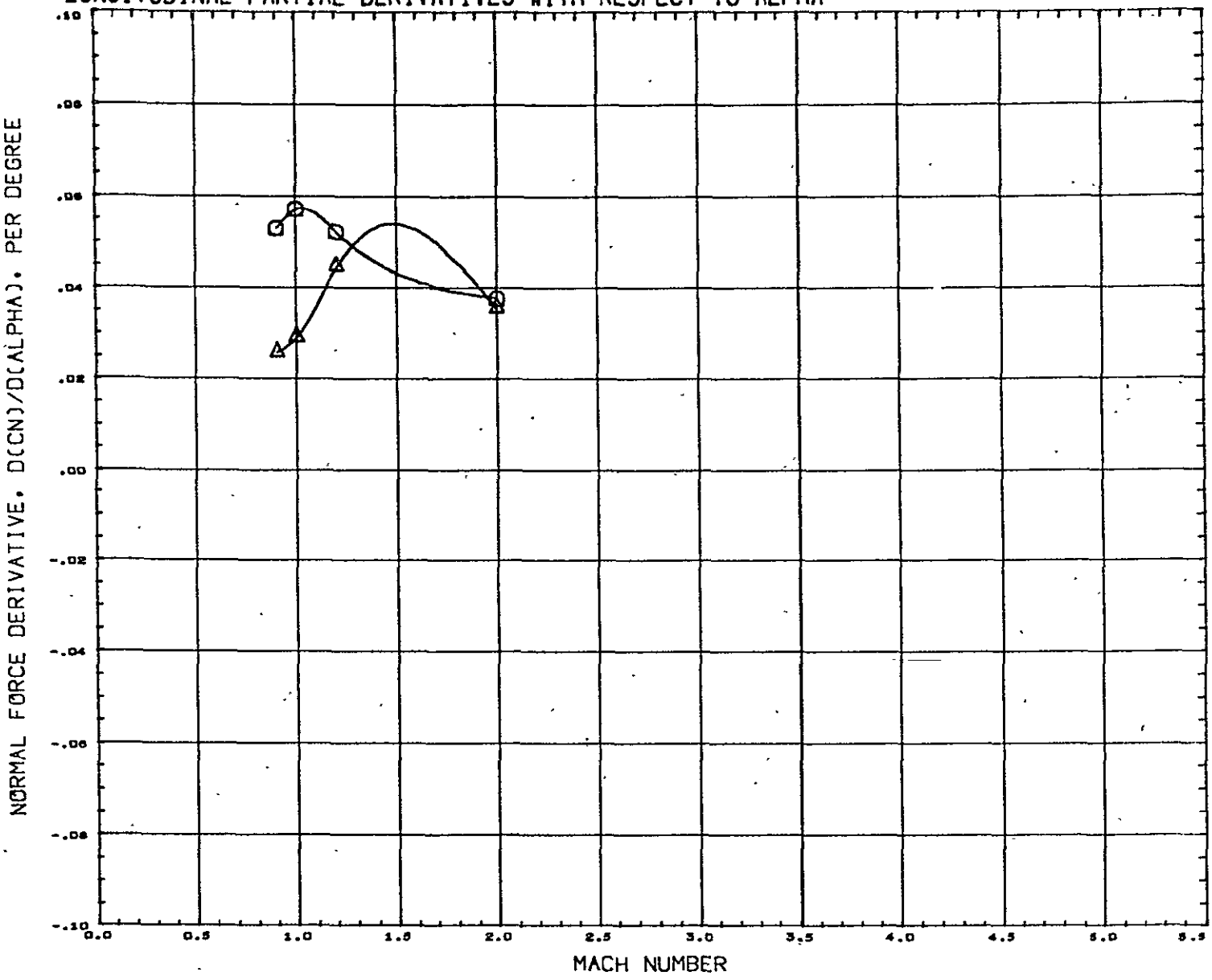
		DER	0.000	DCL	0.000
		DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

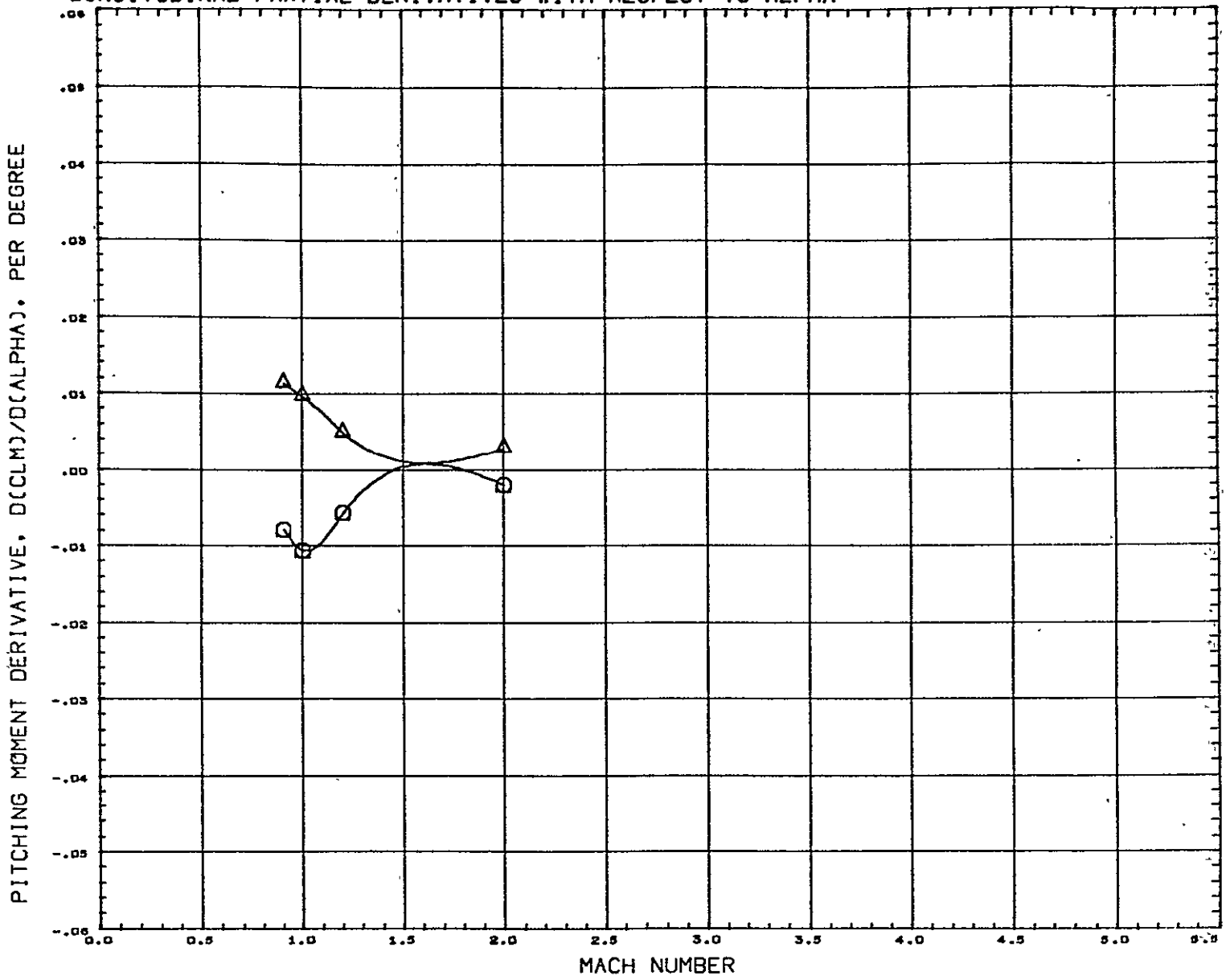
BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE HVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
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△	20.000

PARAMETRIC VALUES

BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE HVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
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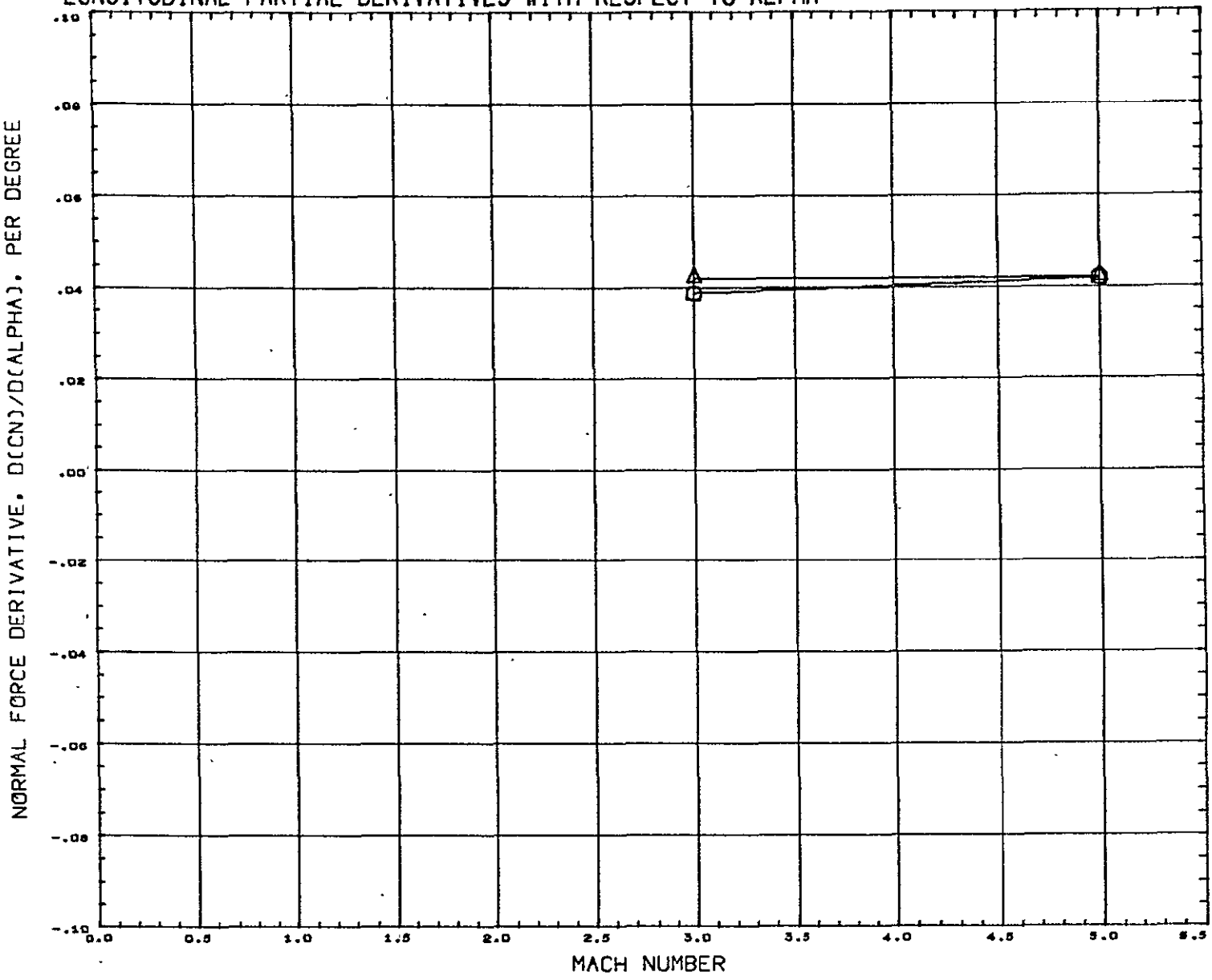
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
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△	40.000

PARAMETRIC VALUES

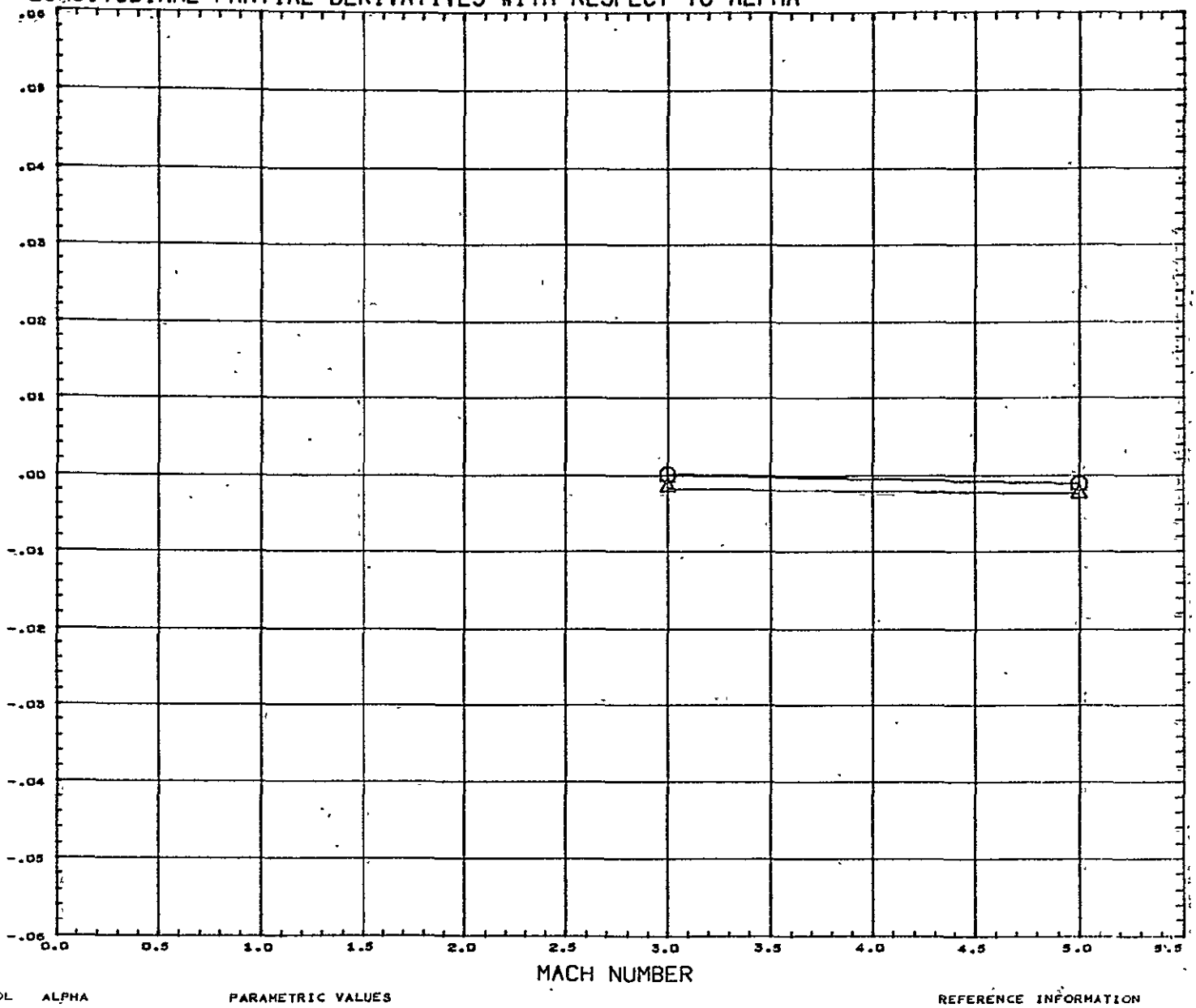
BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
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△	40.000

PARAMETRIC VALUES

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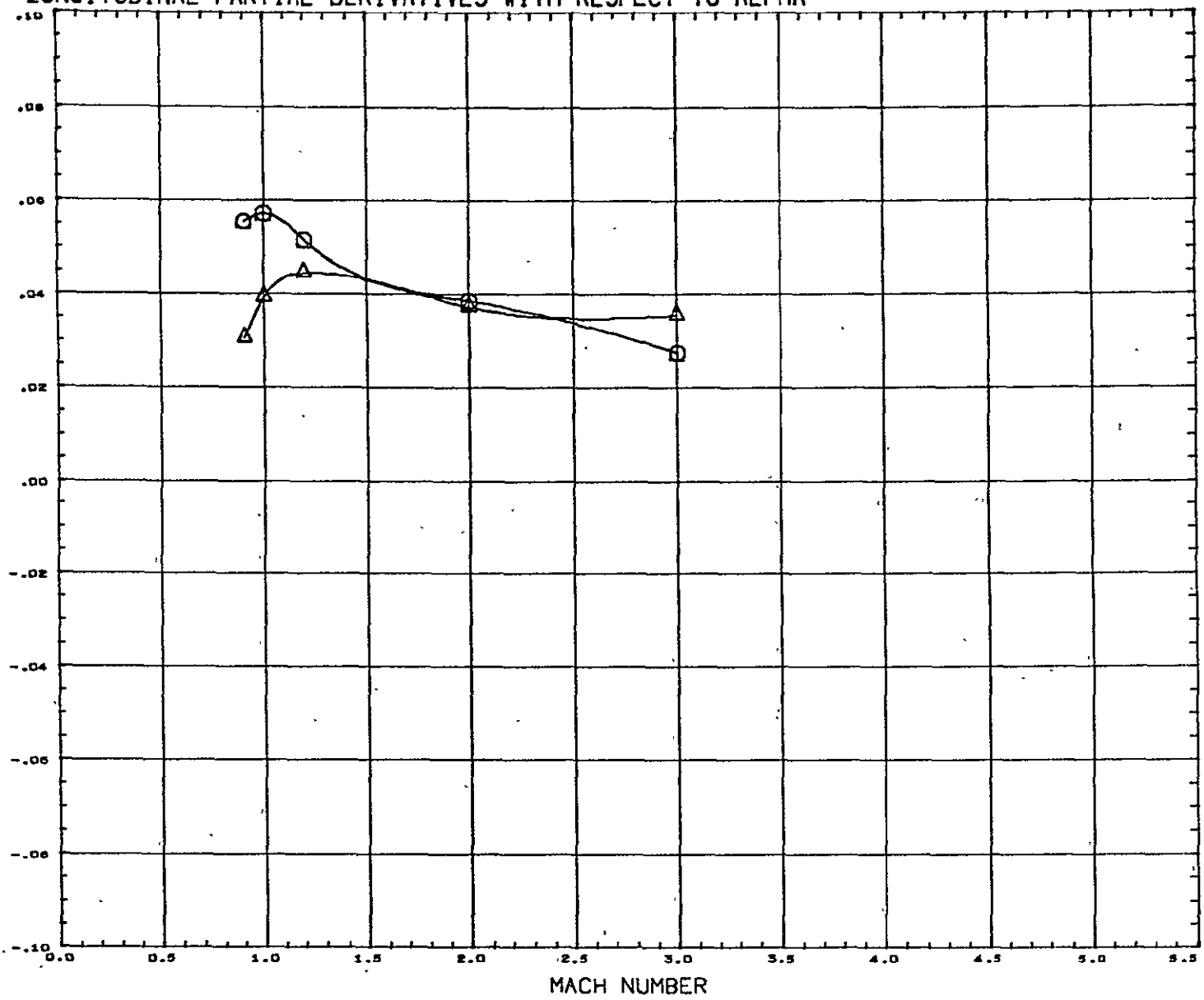
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE HVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
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△	20.000

PARAMETRIC VALUES

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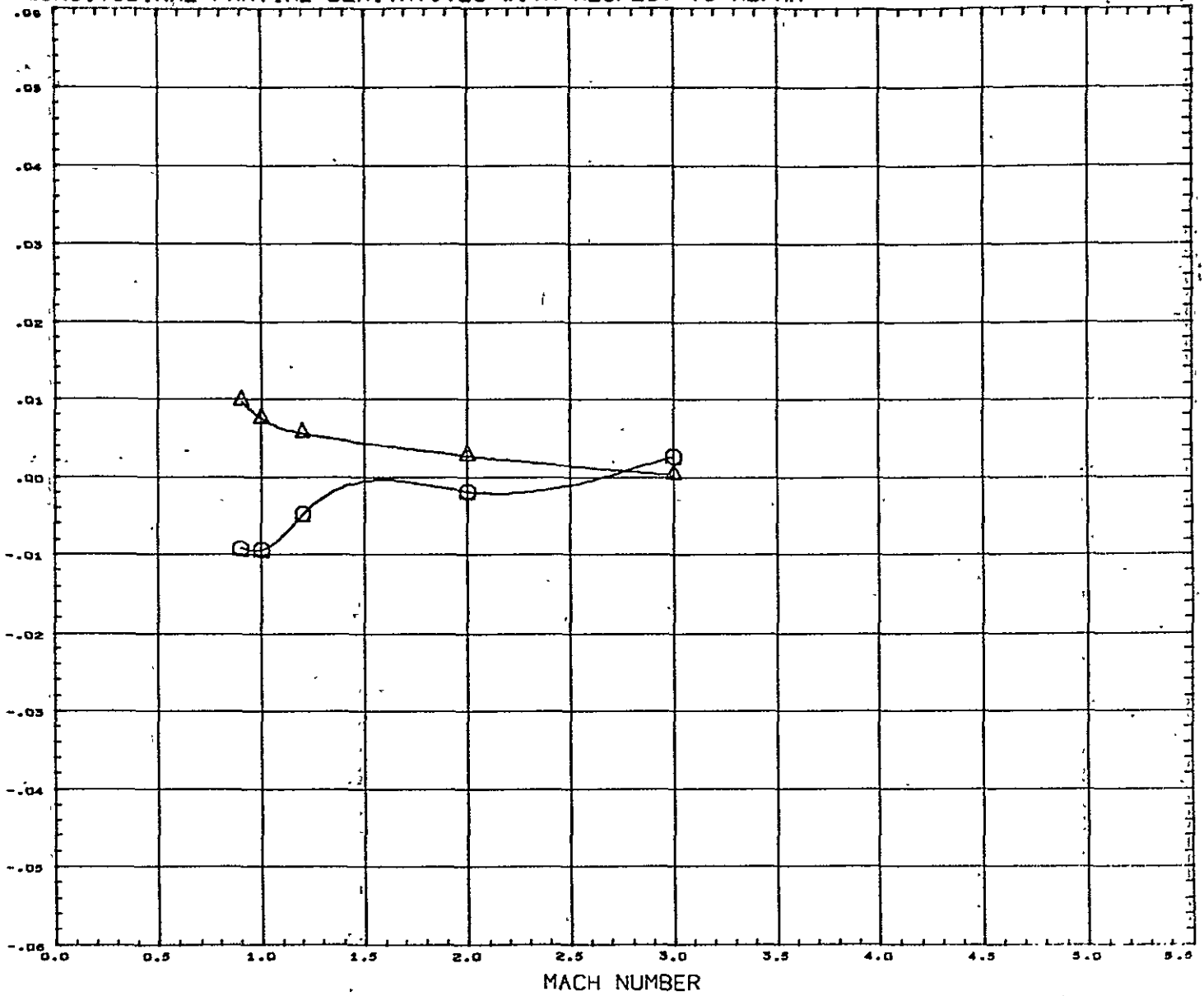
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
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△	20.000

PARAMETRIC VALUES

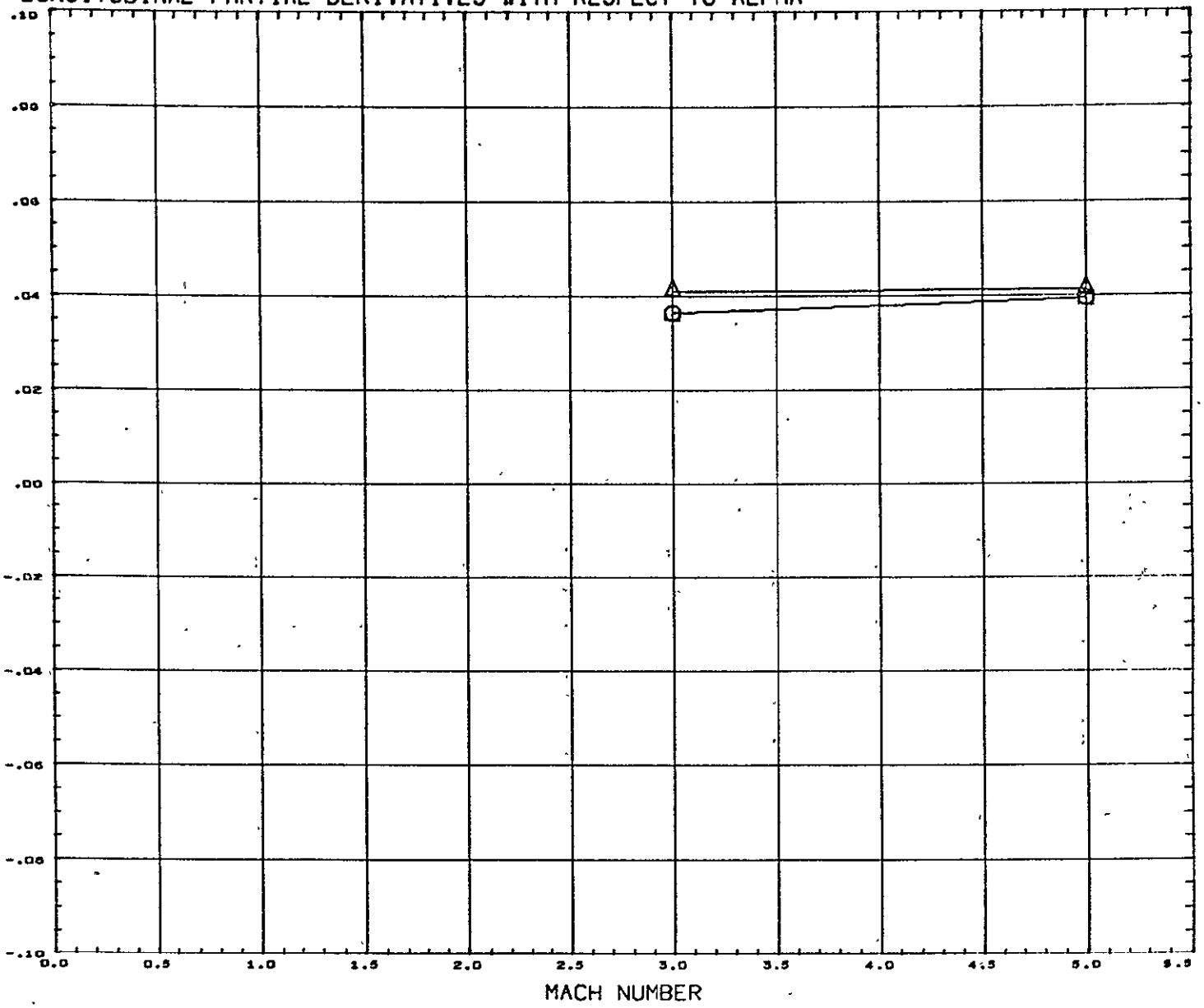
BETA	0.000	DEL	- 20.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE, HVR*EGI

REFERENCE INFORMATION

SREF	19.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0055	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
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△	40.000

PARAMETRIC VALUES

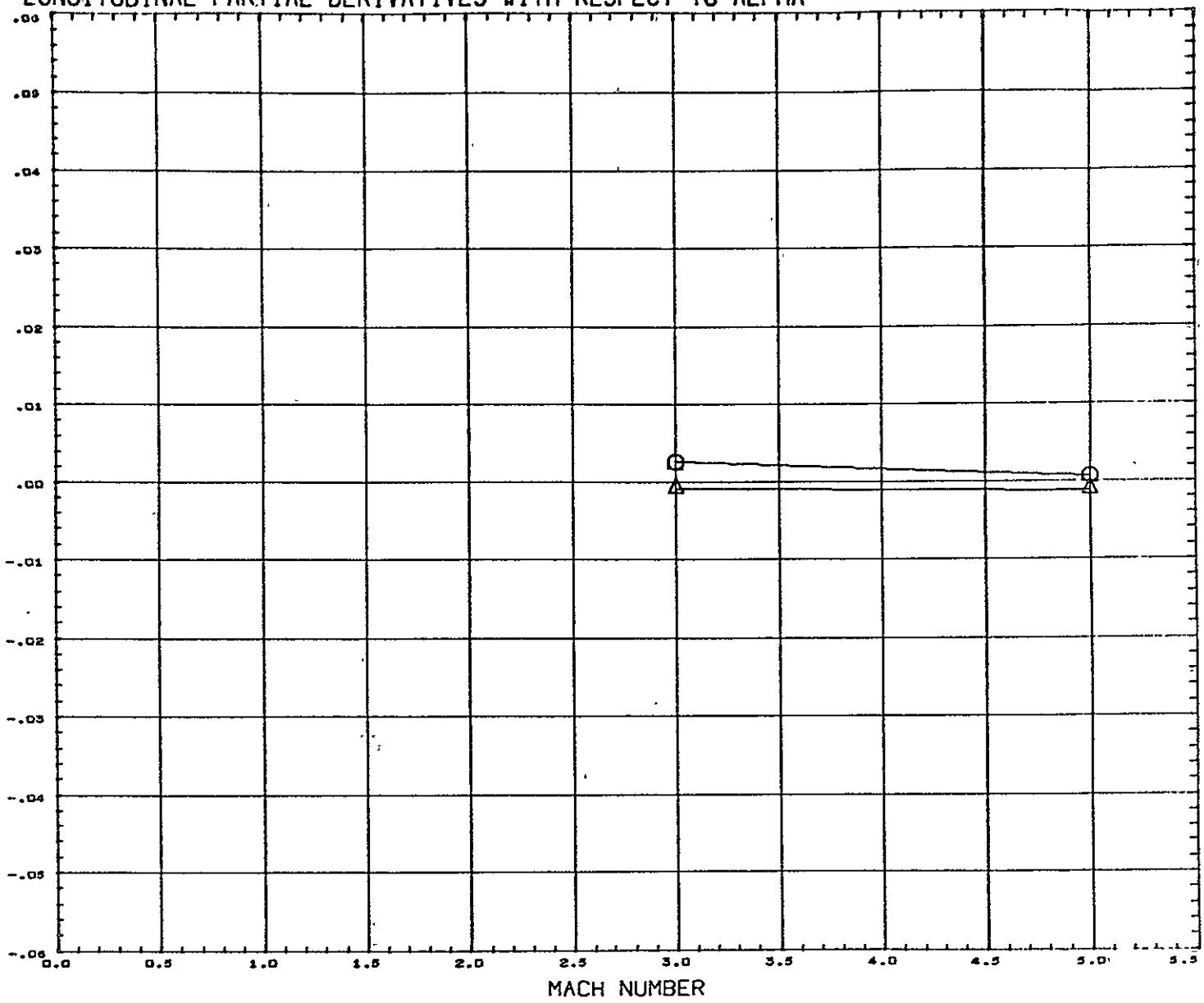
BETA	0.000	DEL	- 20.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	5.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

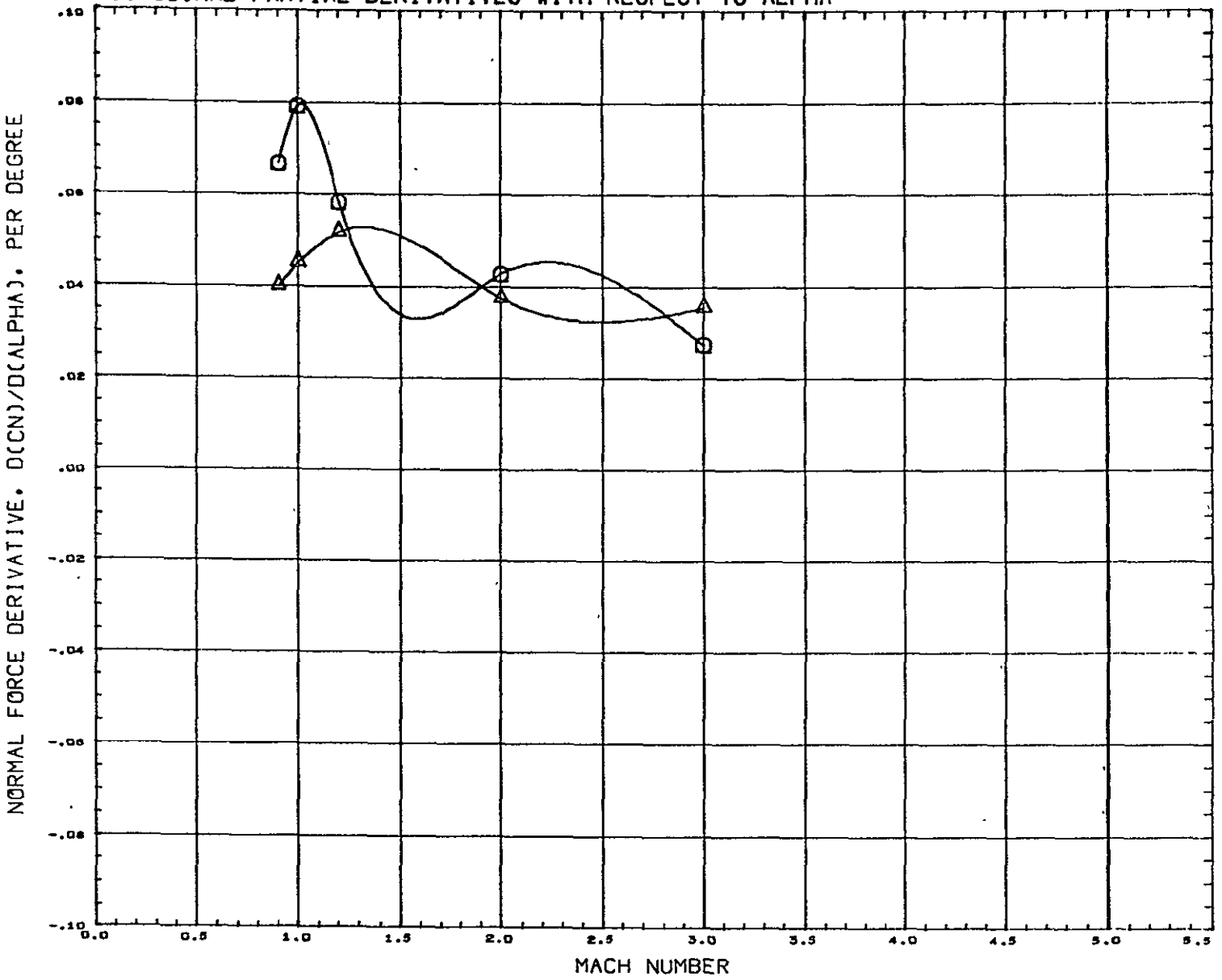
BETA	0.000	DEL	- 20.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE NVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

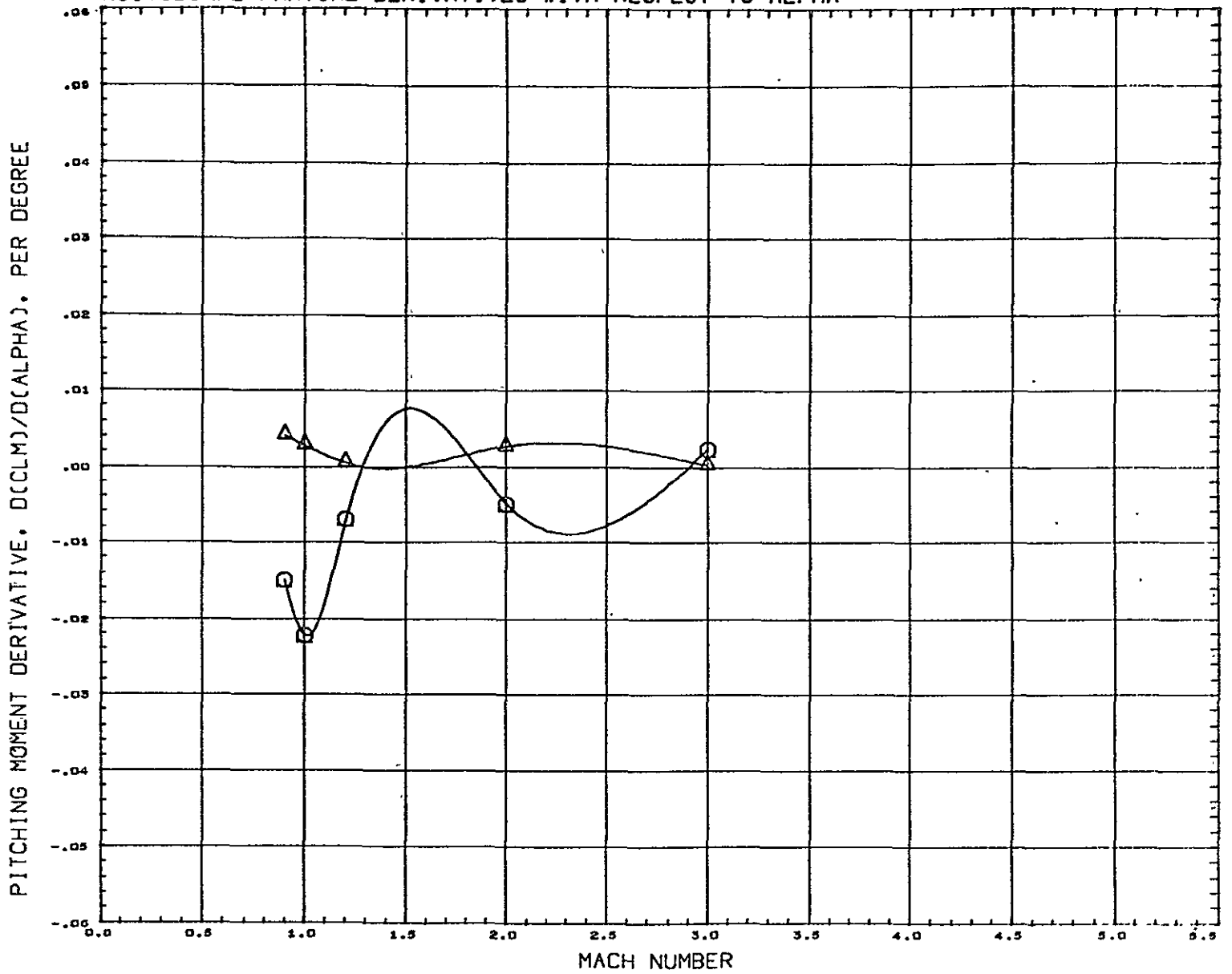
BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

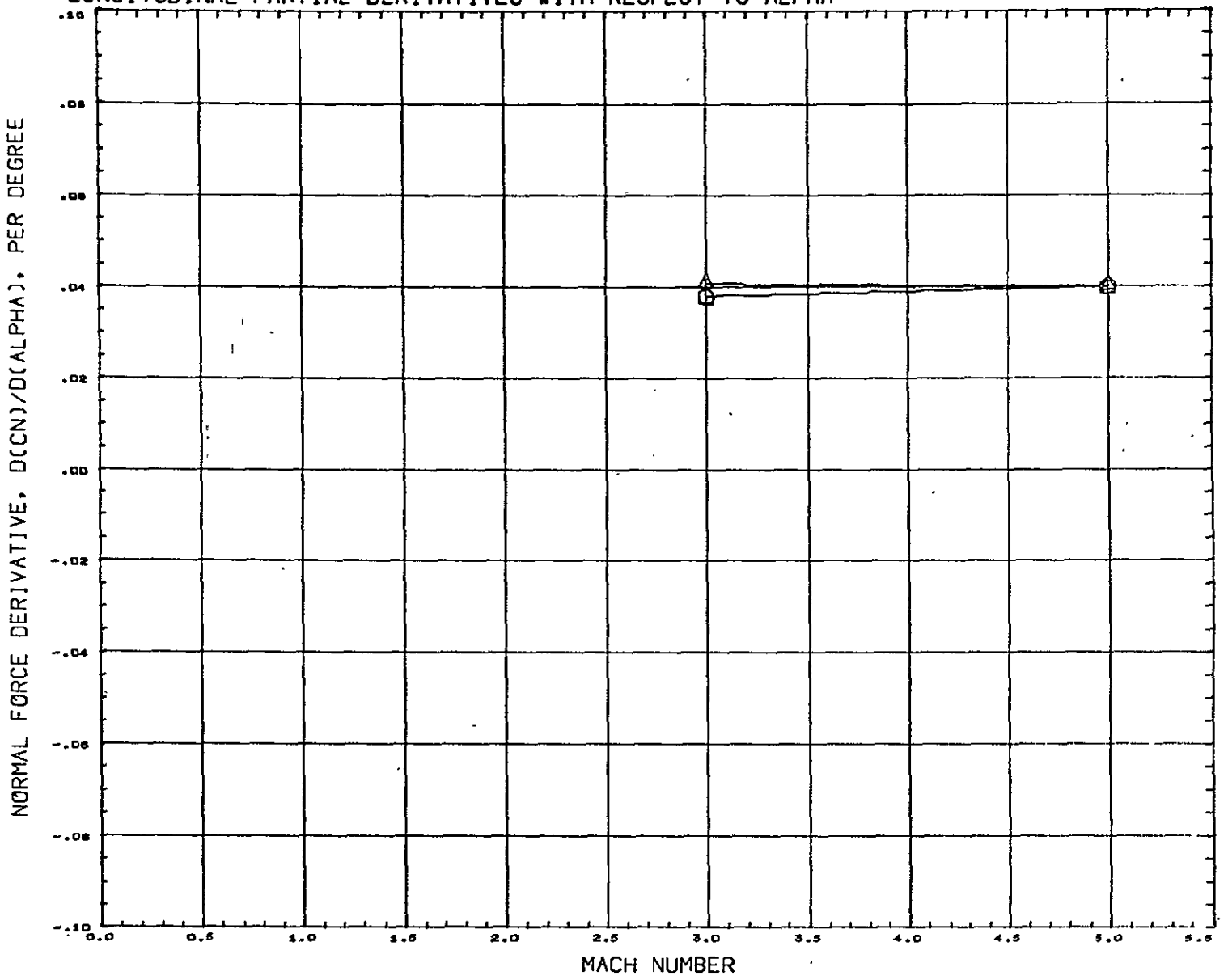
BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE: MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

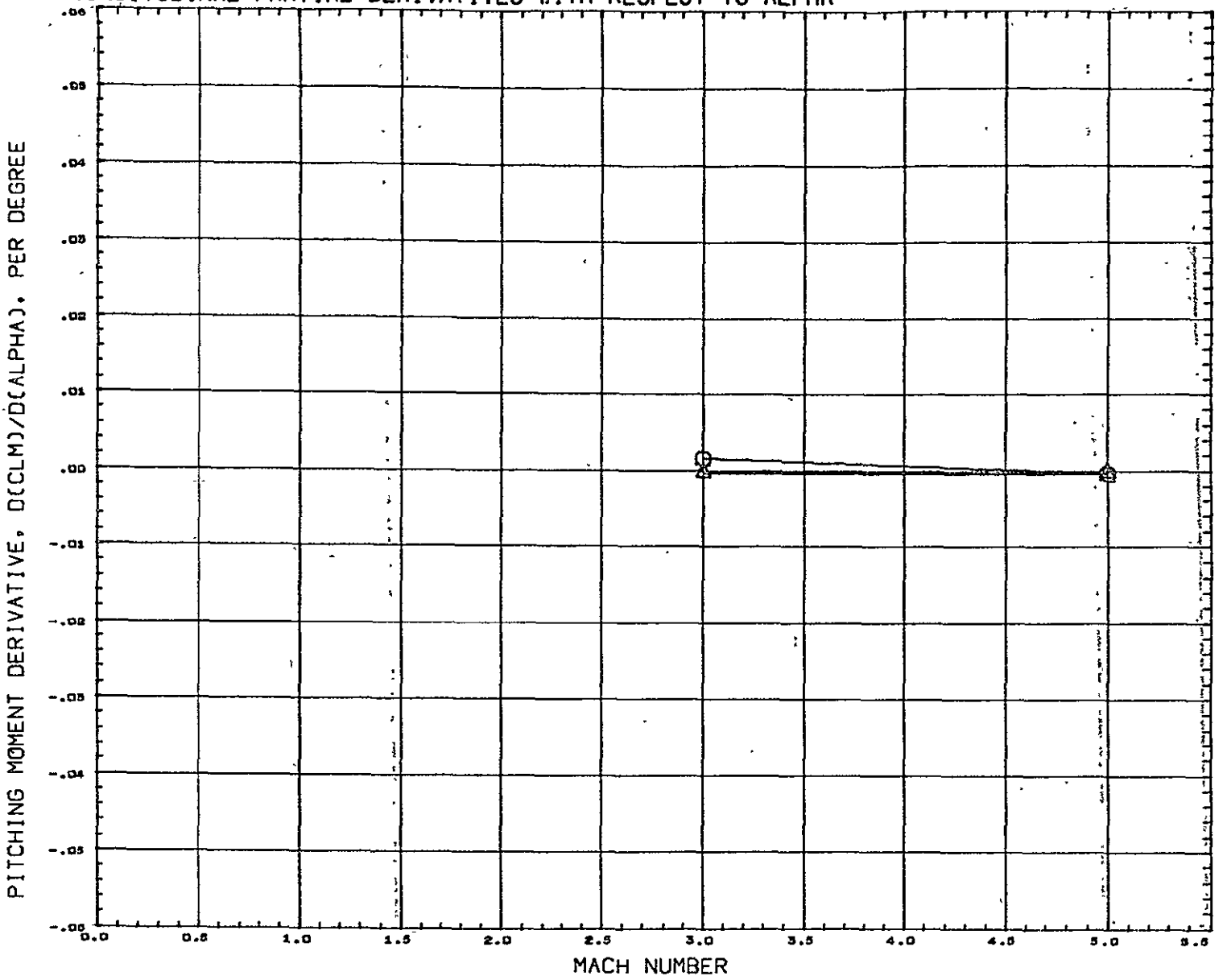
BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
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△	40.000

PARAMETRIC VALUES

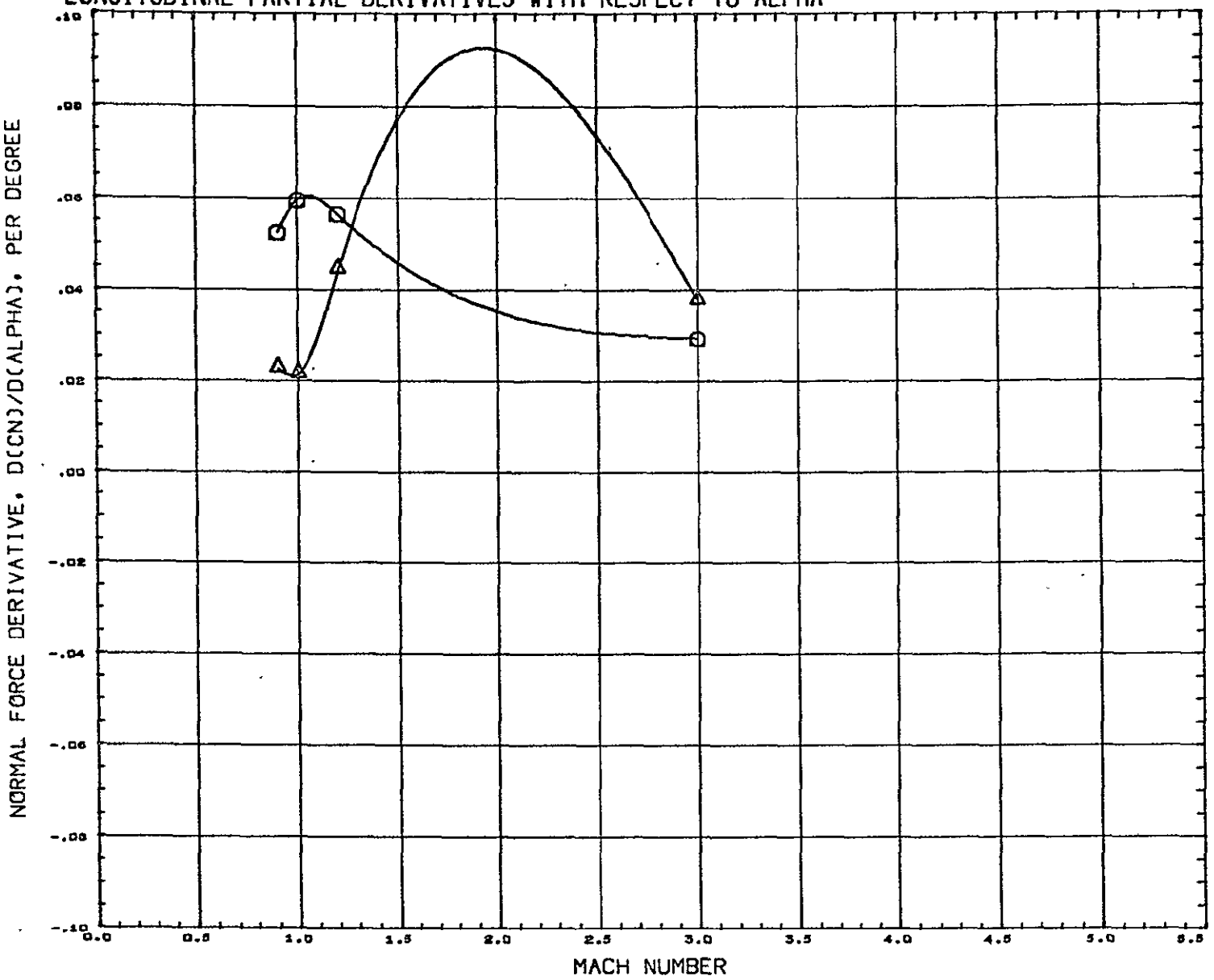
BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILERON	0.000

DATA HIST. CODE HVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

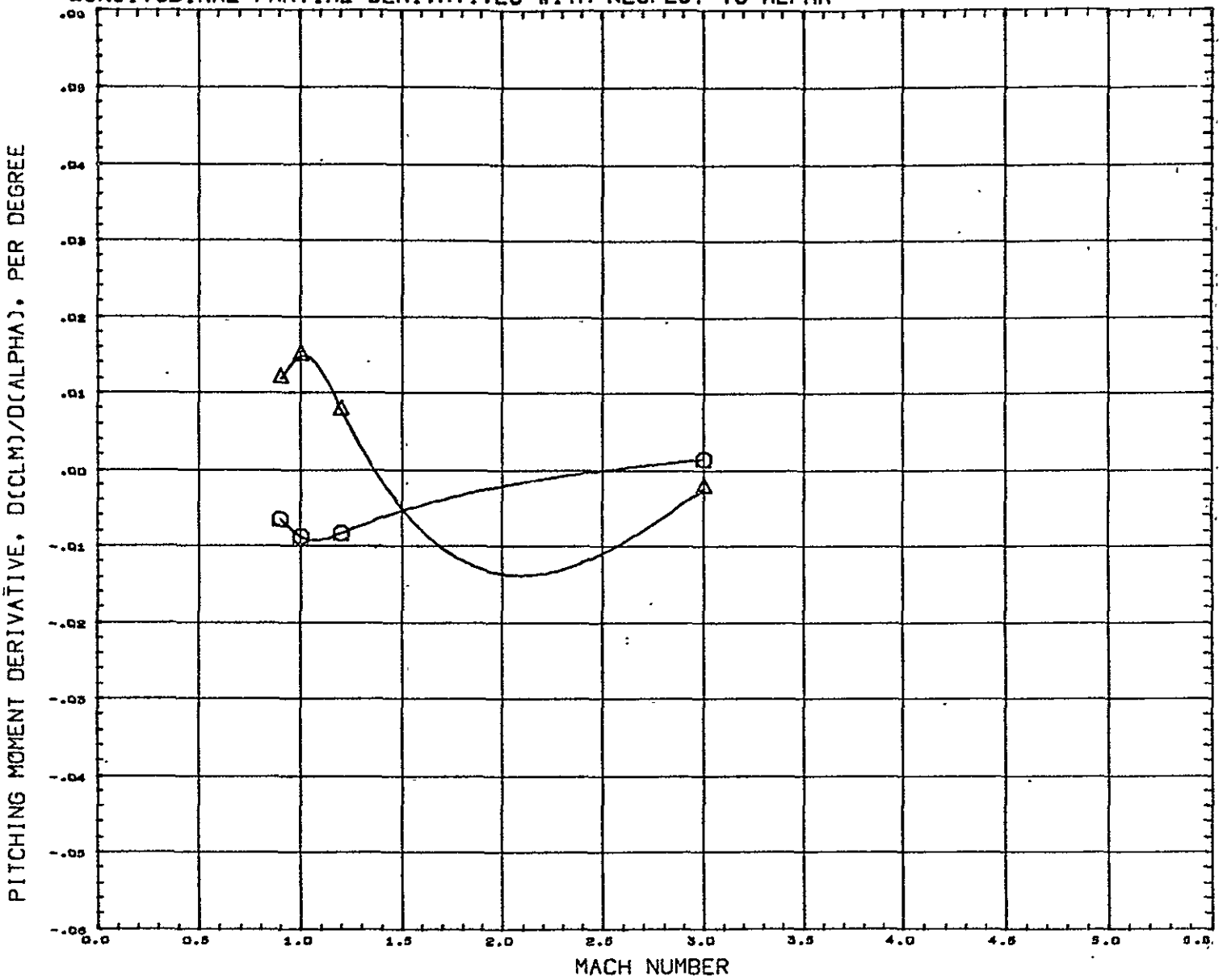
BETA	0.000	DEL	10.000
DER	10.000	DCL	0.000
DCR	0.000	ELEVON	10.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO ALPHA



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

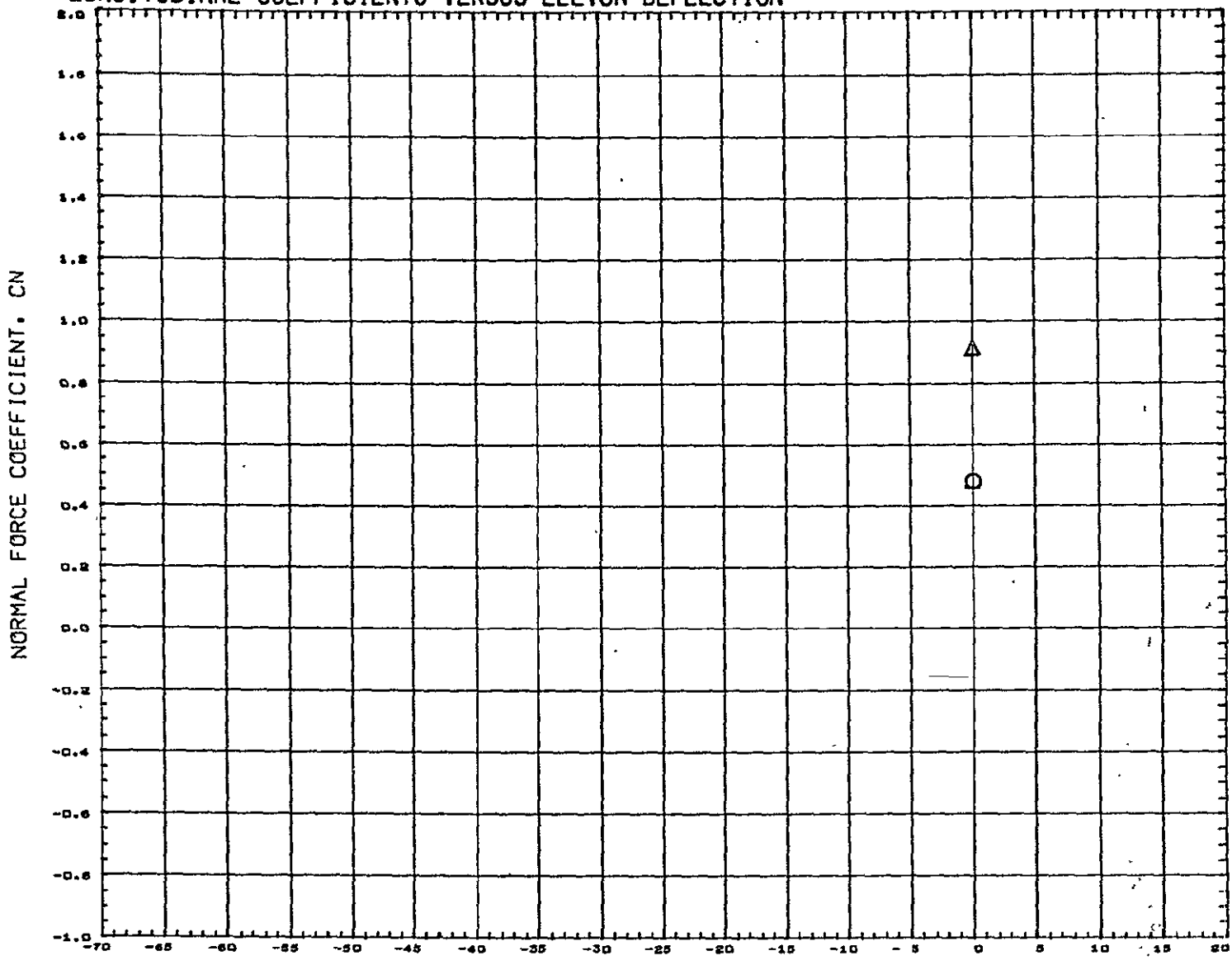
BETA	0.000	DEL	10.000
DER	10.000	DCL	0.000
DCR	0.000	ELEVON	10.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.600	BETA	0.000
DEL	-60.000	DER	-60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E1

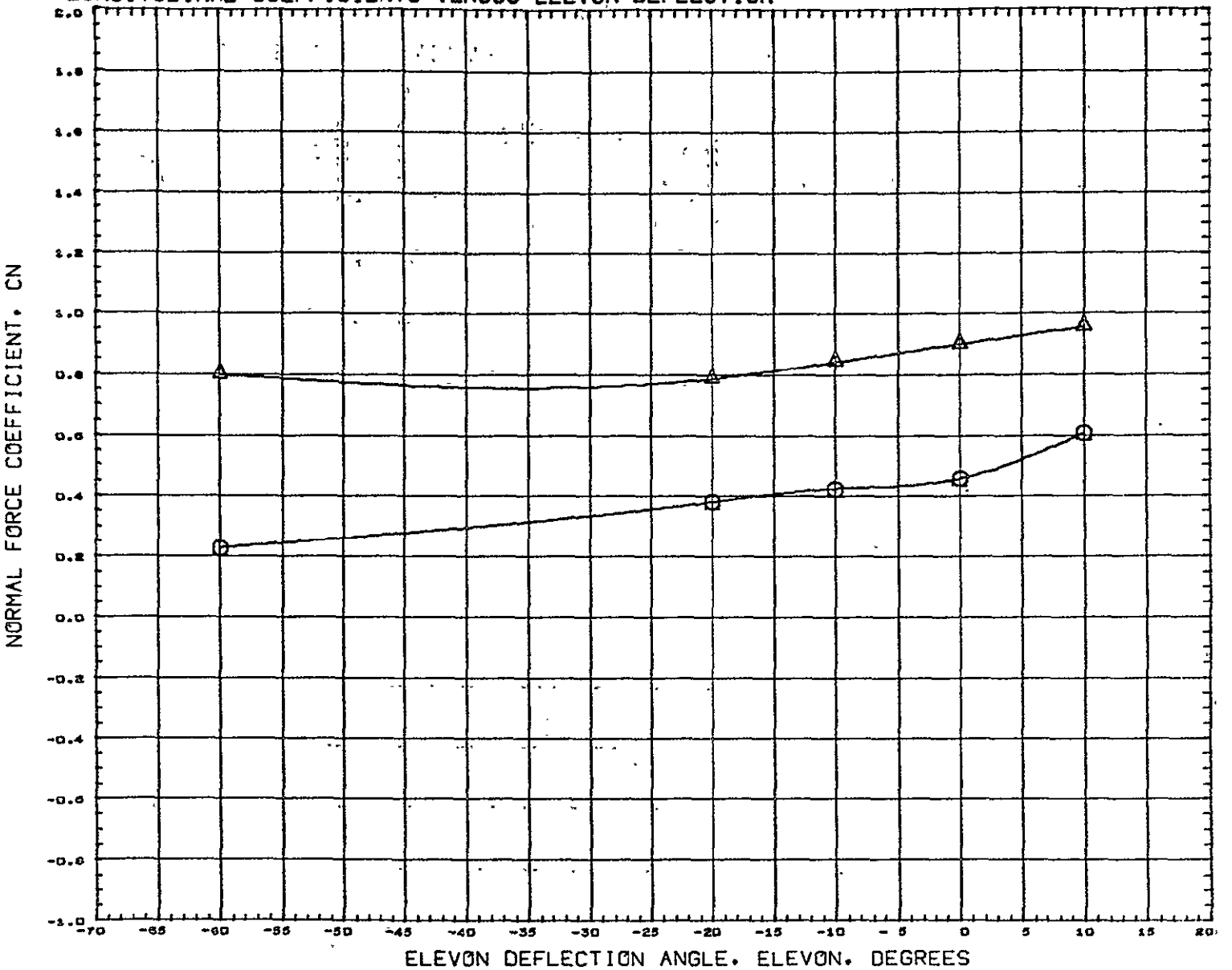
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	-60.000	G28E71	-20.000
G28A01	-10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
△	10.000
○	20.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

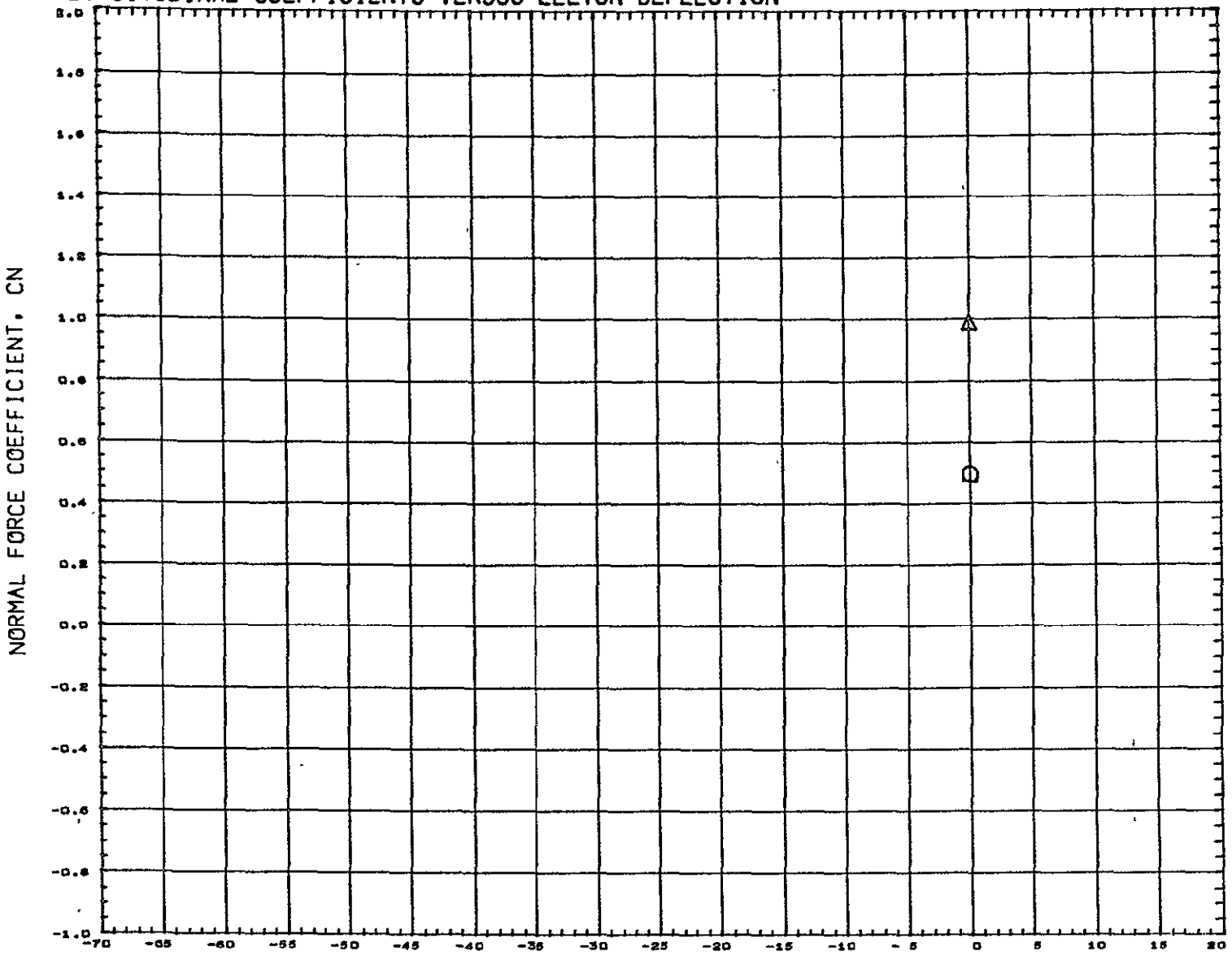
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

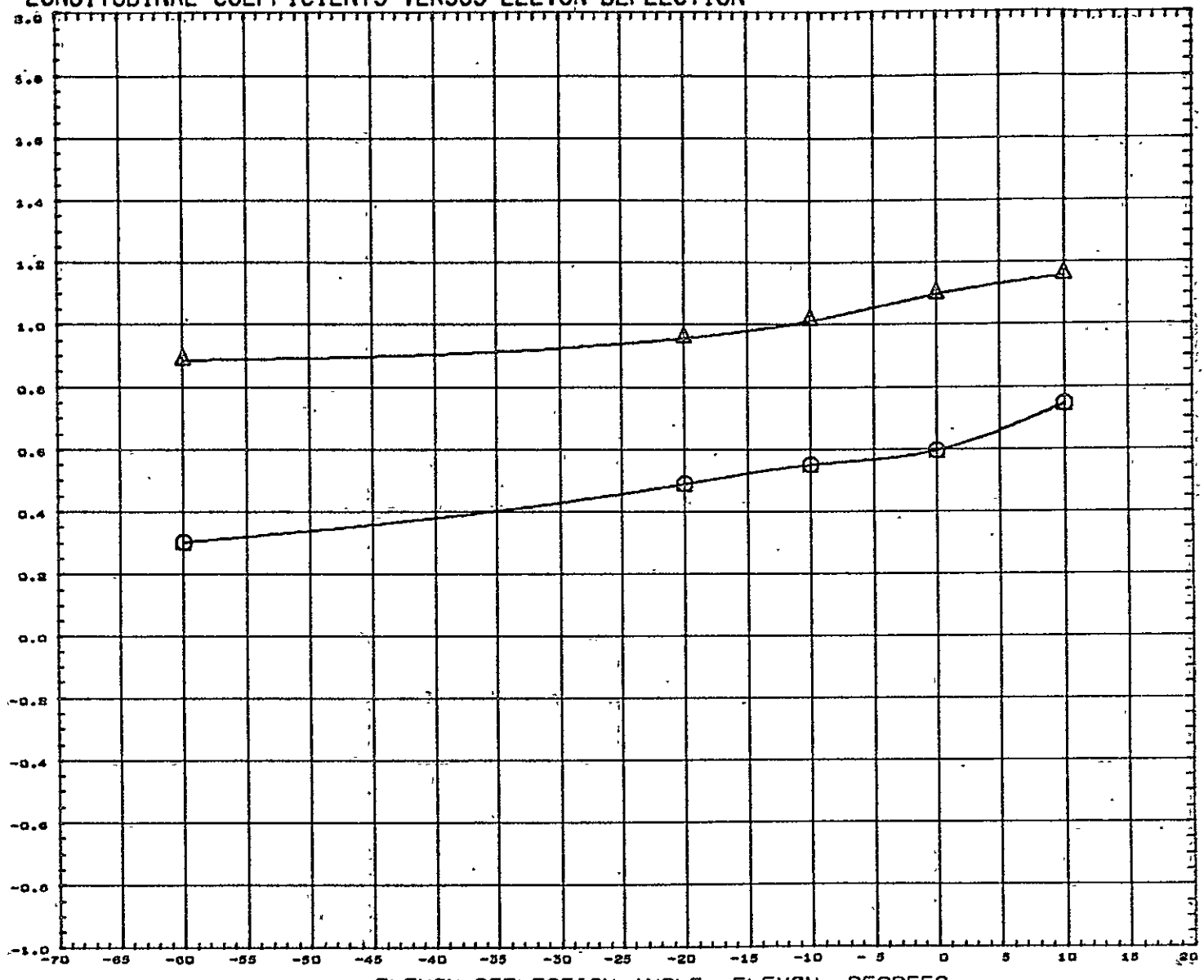
PARAMETRIC VALUES					
MACH	0.950	BETA	0.000		
DEL	- 60.000	DER	- 60.000		
DCL	0.000	DCR	0.000		
CANARD	0.000	AILRON	0.000		

DATA HIST. CODE MVR*EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28AD1	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
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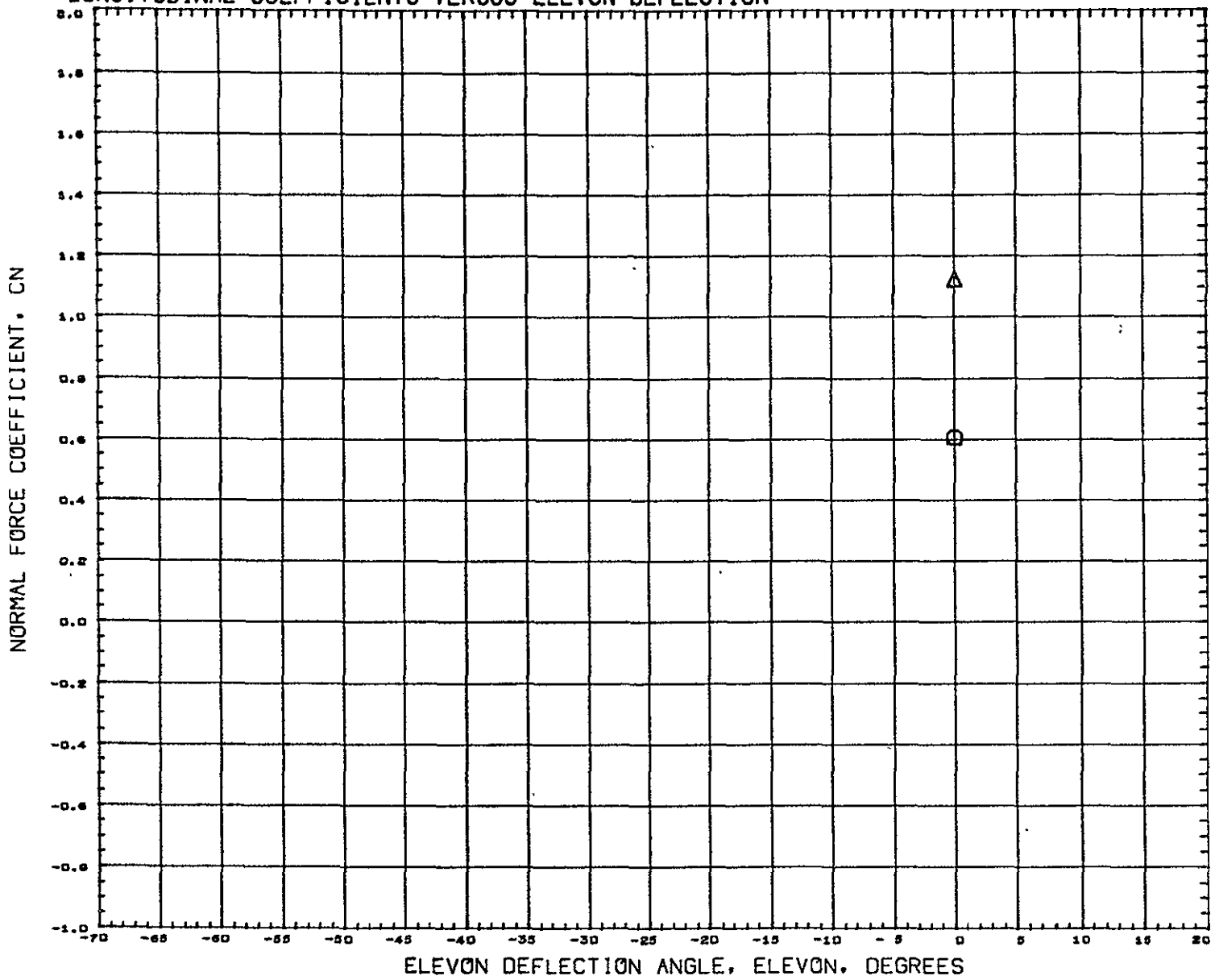
	20.000	DEL	- 60.000	DER	- 60.000	G28E74	- 60.000	G28E71	- 20.000	LREF	3.0950	IN.
		DCL	0.000	DCR	0.000	G28A01	- 10.000	G28B31	0.000	BREF	6.0990	IN.
		CANARD	0.000	AILRON	0.000	G28E77	10.000			XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE MVR#E1

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

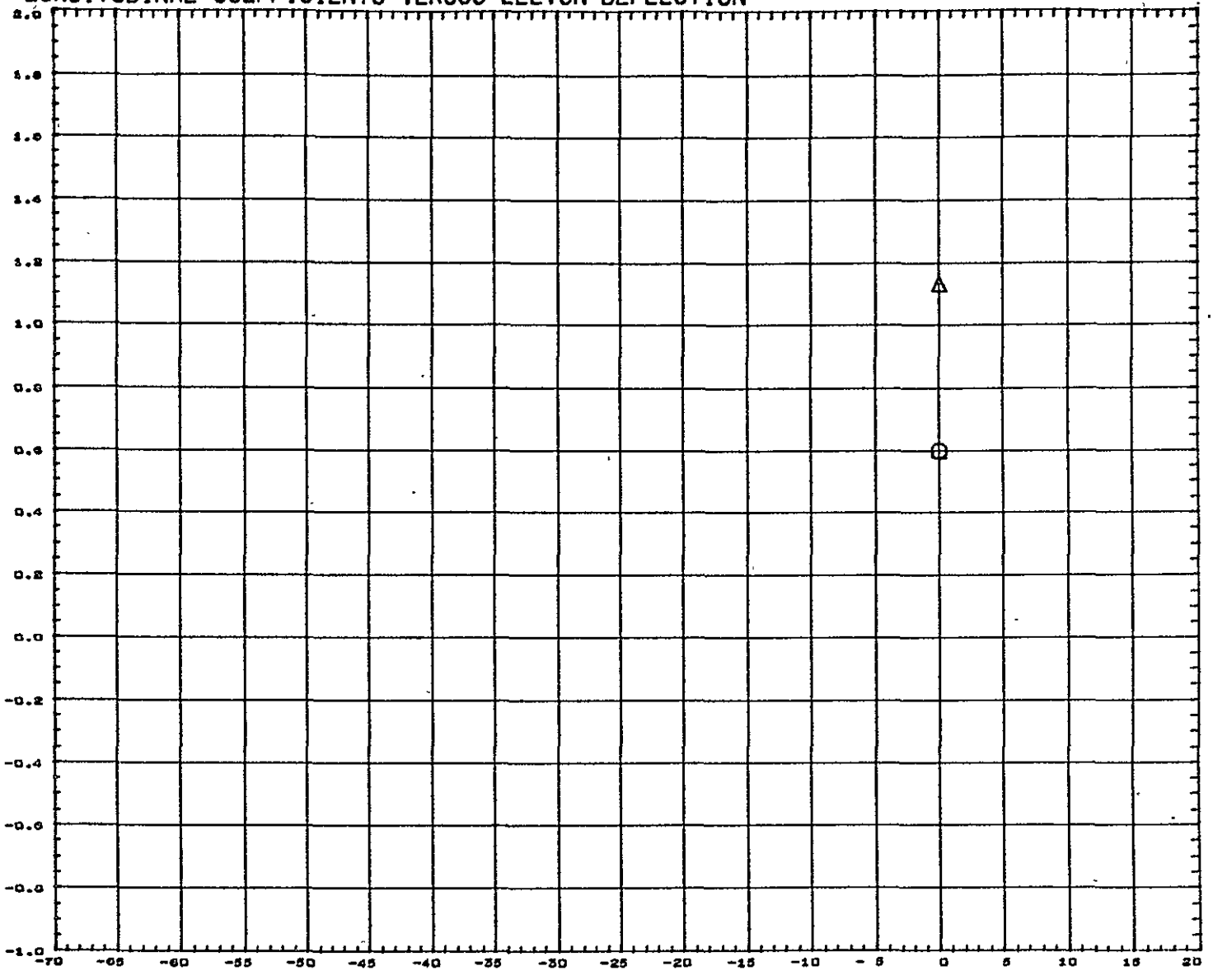
PARAMETRIC VALUES					
MACH	1.050	BETA	0.000		
DEL	- 60.000	DER	- 60.000		
DCL	0.000	DCR	0.000		
CANARD	0.000	AILRON	0.000		

DATA HIST. CODE MVR*EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G26E74	- 60.000	G26E71	- 20.000
G26A01	- 10.000	G26B51	0.000
G26E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.100	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

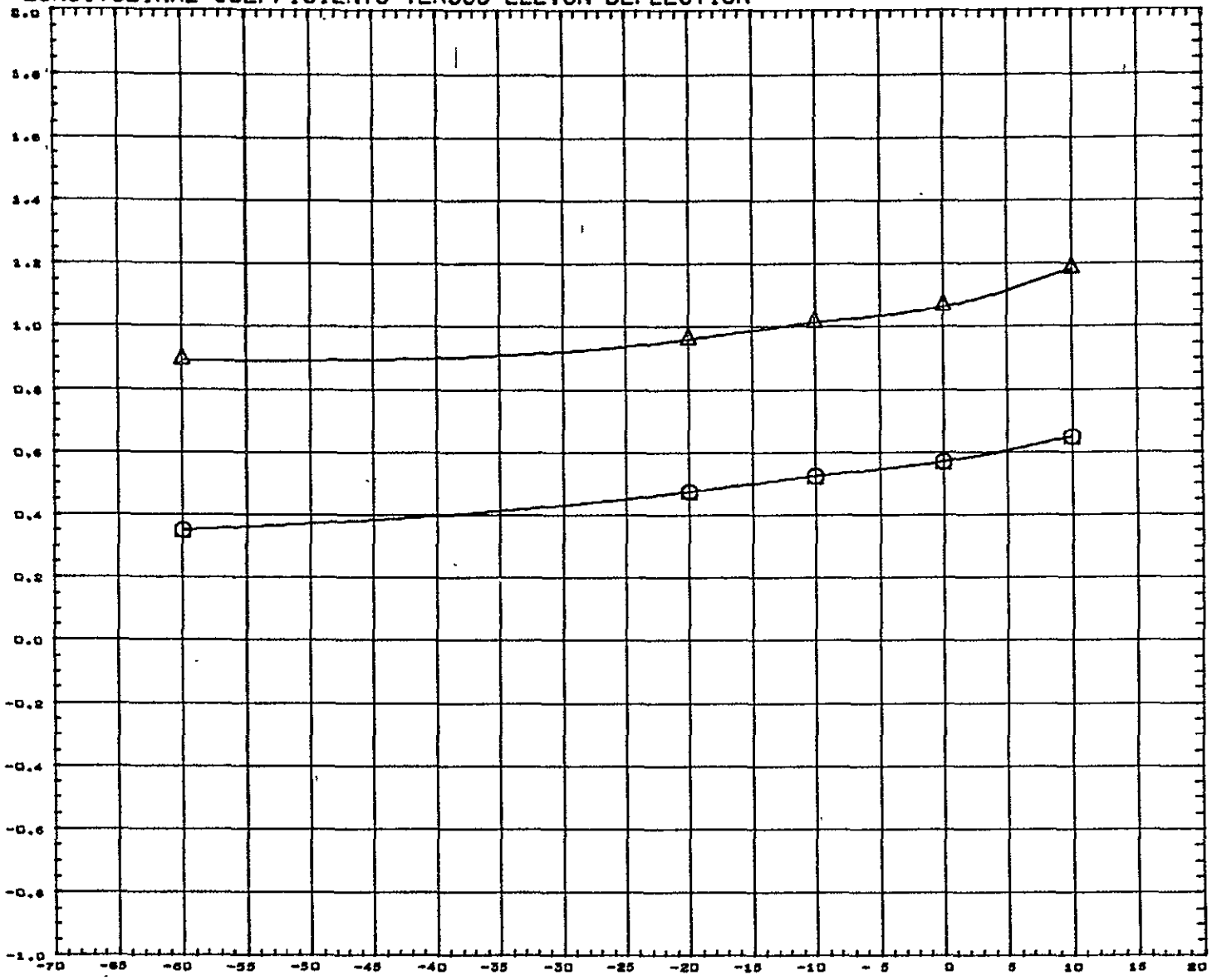
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B51	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

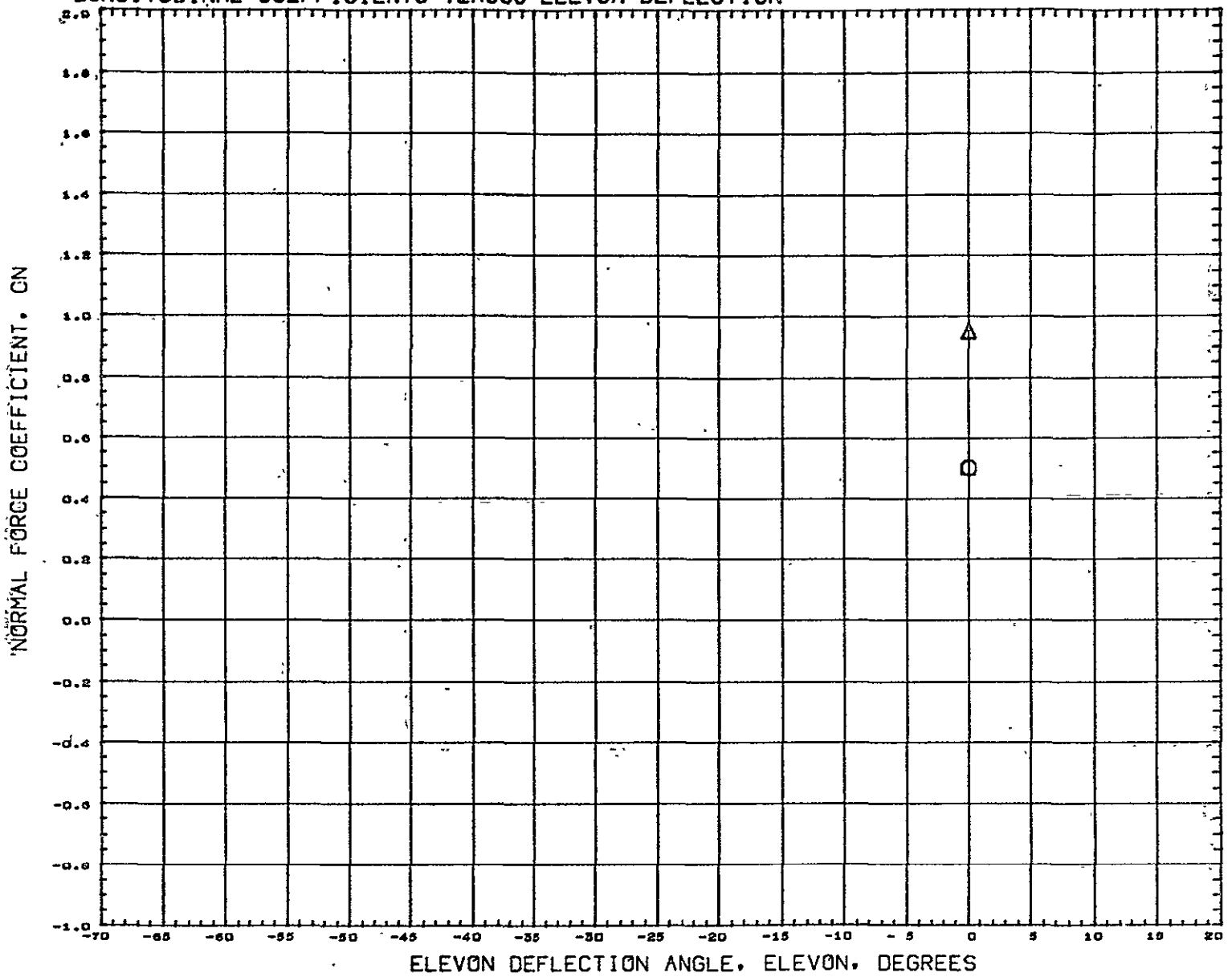
PARAMETRIC VALUES			
MACH	1.200	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR#EI

DATA SOURCE					
DATASET	ELEVON		DATASET	ELEVON	
G28E74	- 60.000		G28E71	- 20.000	
G28AD1	- 10.000		G28B31	0.000	
G28E77	10.000				

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
△	10.000
○	20.000

PARAMETRIC VALUES

MACH	1.500	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

DATA SOURCE

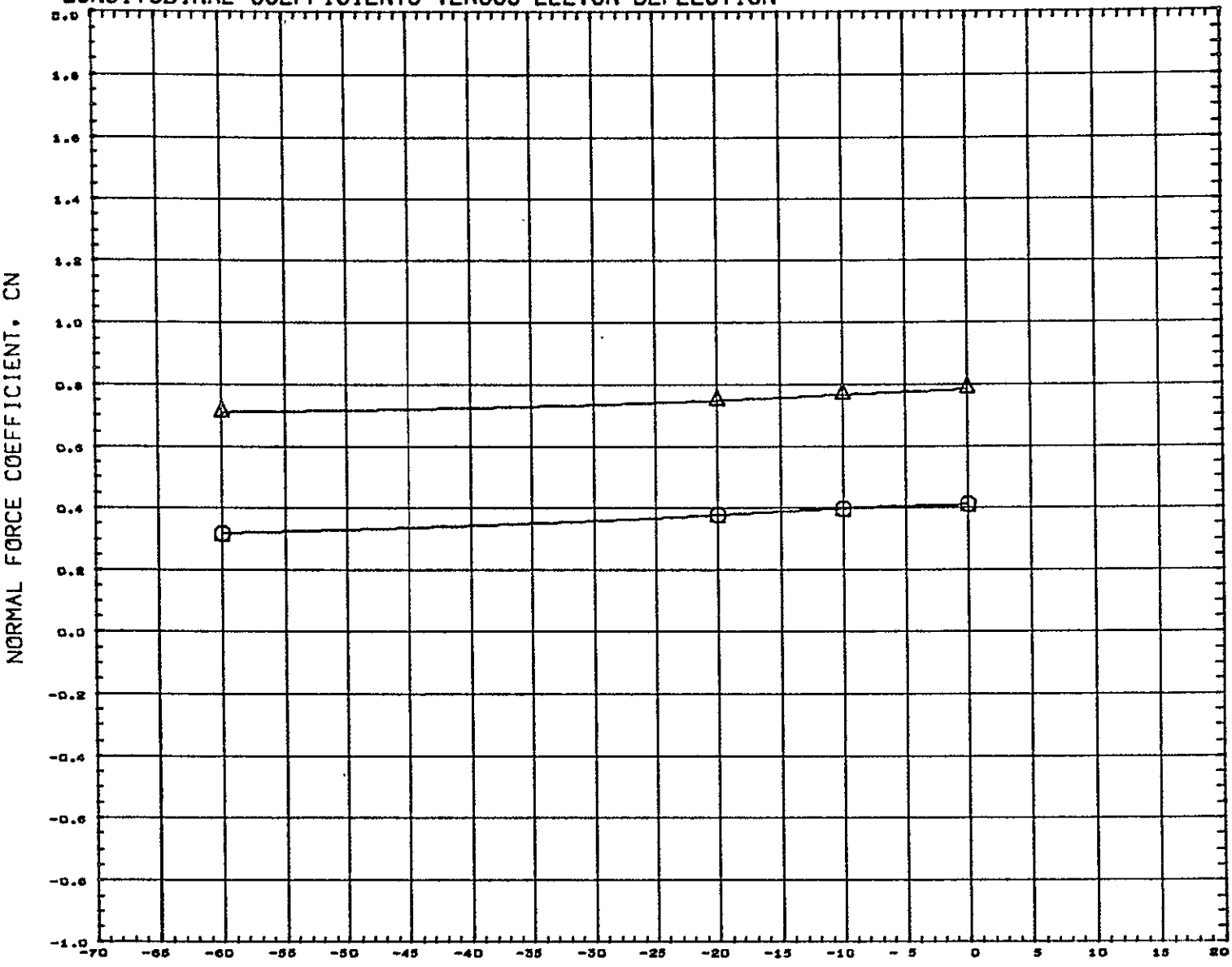
DATASET	ELEVON
G28E74	- 60.000
G28A01	- 10.000
G28E77	10.000

DATASET	ELEVON
G28E71	- 20.000
G28831	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

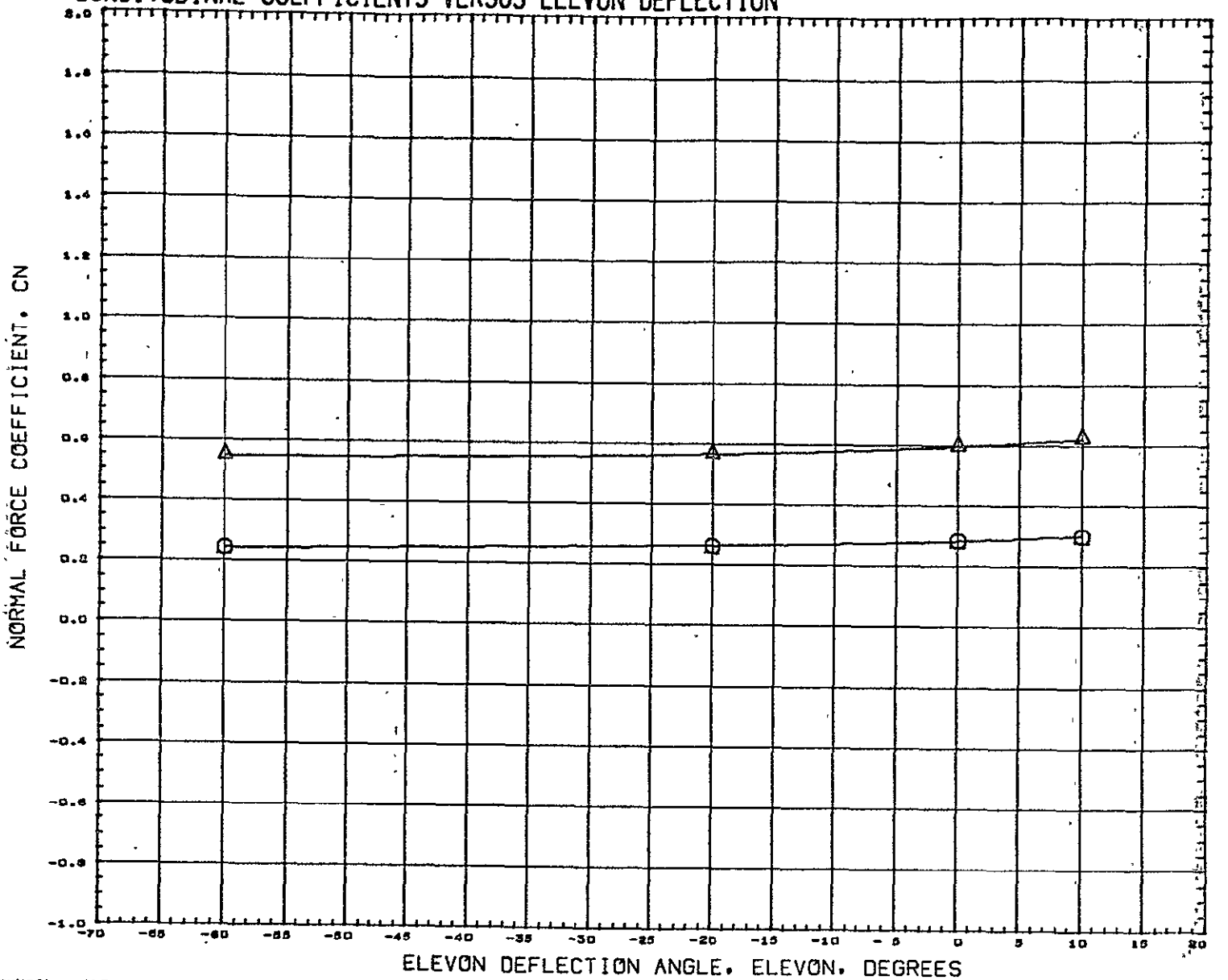
PARAMETRIC VALUES			
MACH	2.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA MIST. CODE MVR#E1

DATA SOURCE					
DATASET	ELEVON		DATASET	ELEVON	
G28E74	- 60.000		G28E71	- 20.000	
G28A01	- 10.000		G28B31	0.000	
G28E77	10.000				

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
△	10.000
○	20.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

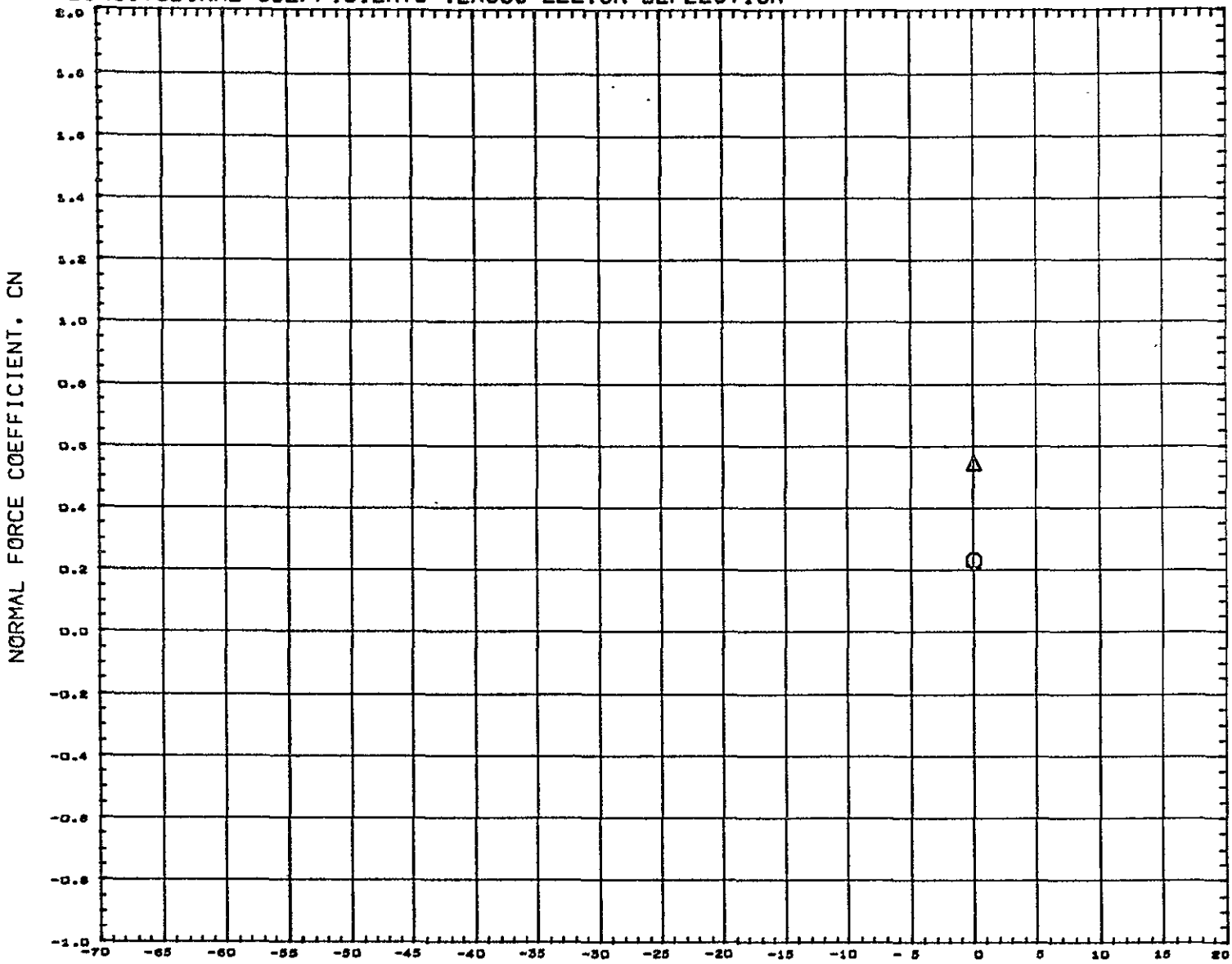
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B51	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

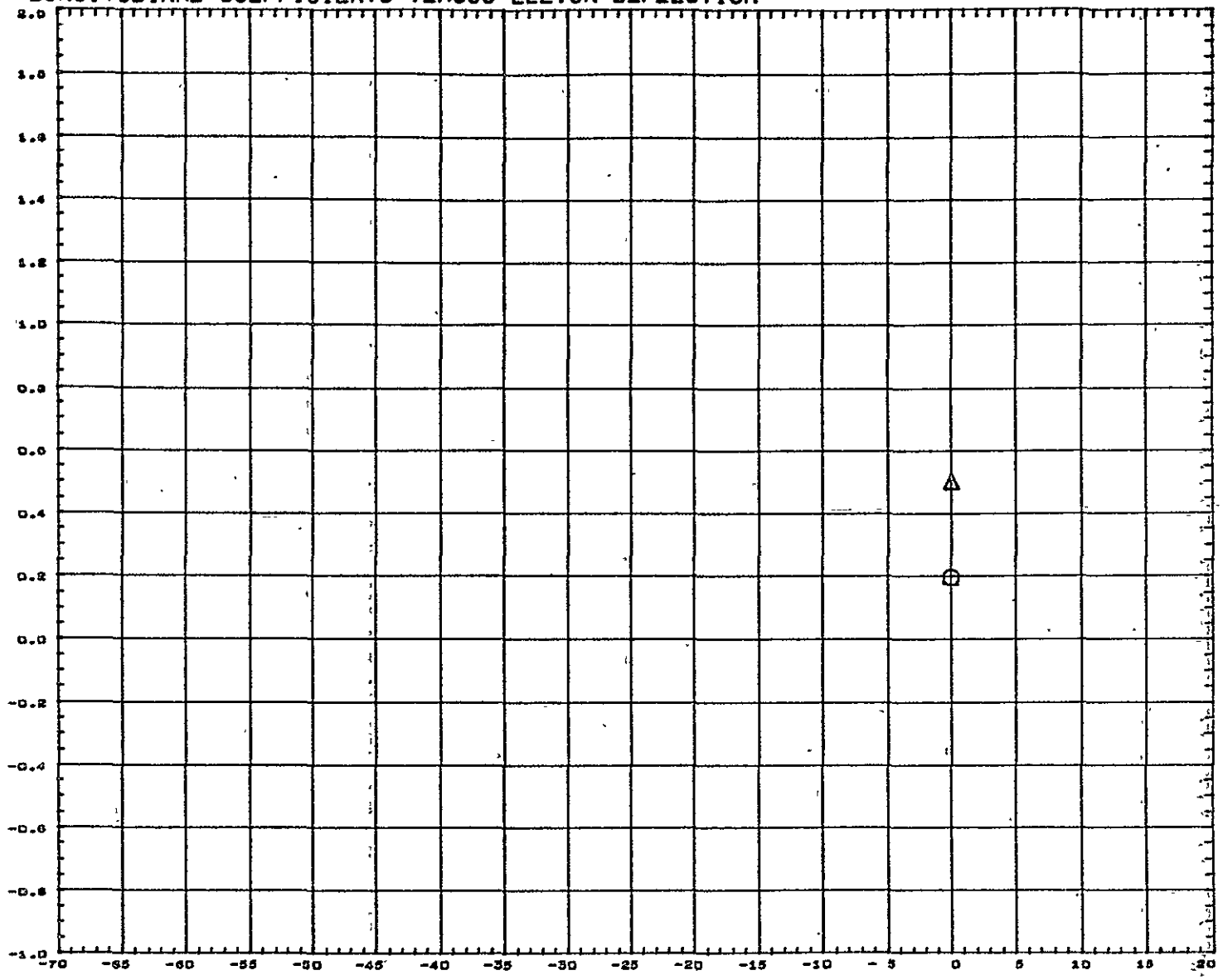
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0930	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE

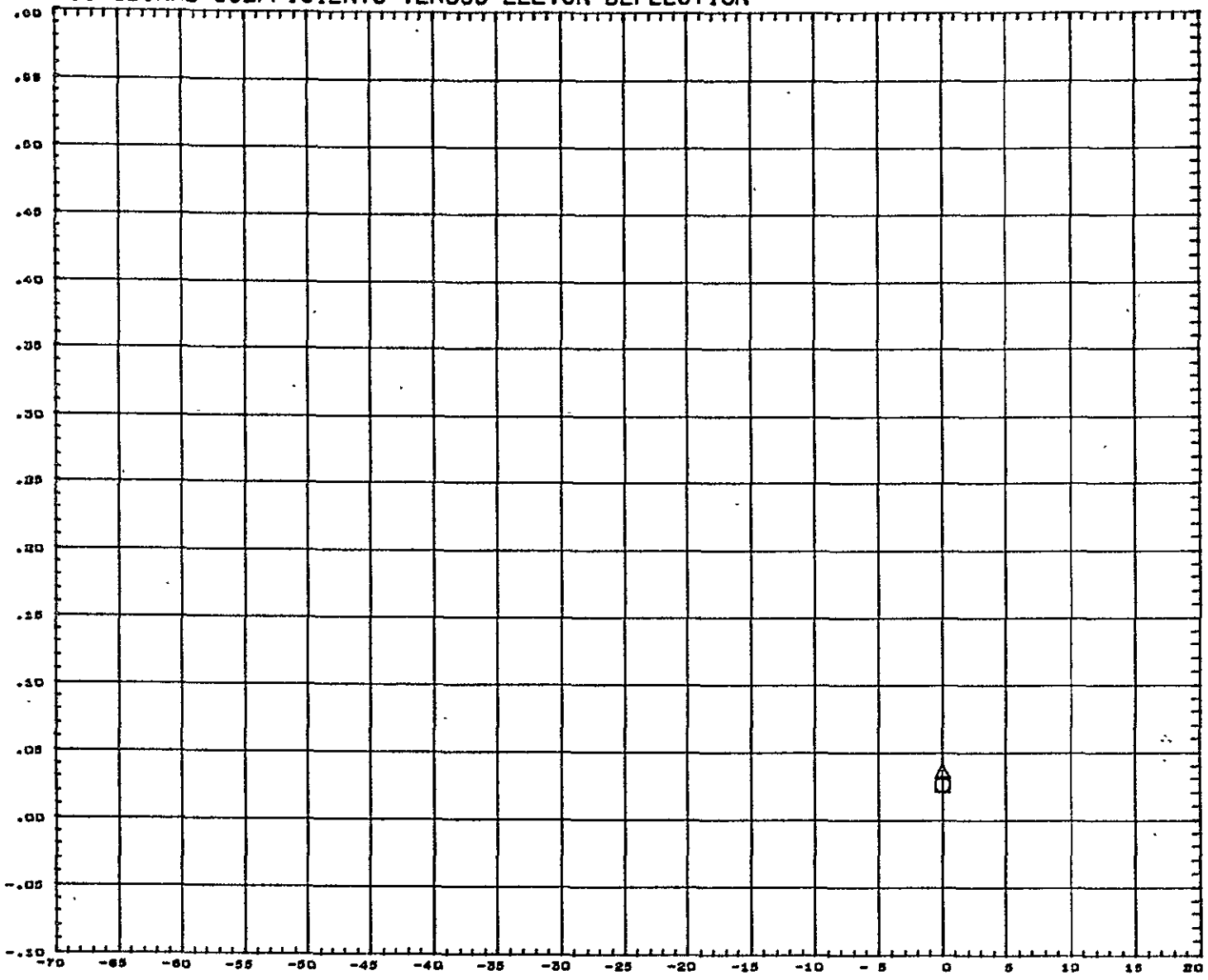
DATASET	ELEVON
G28E74	- 60.000
G28A01	- 10.000
G28E77	10.000

DATASET	ELEVON
G28E71	- 20.000
G28B31	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ. IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.600	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

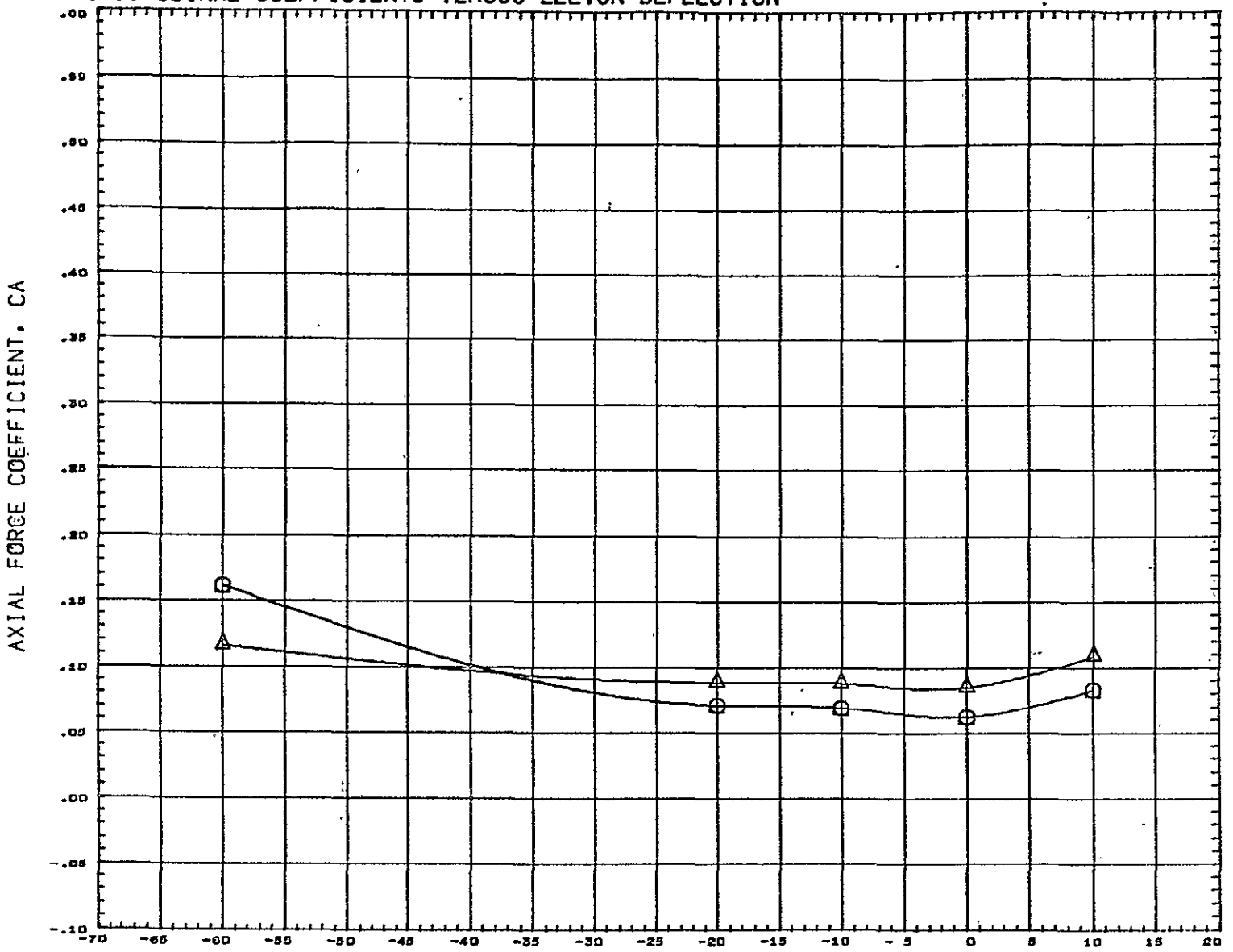
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

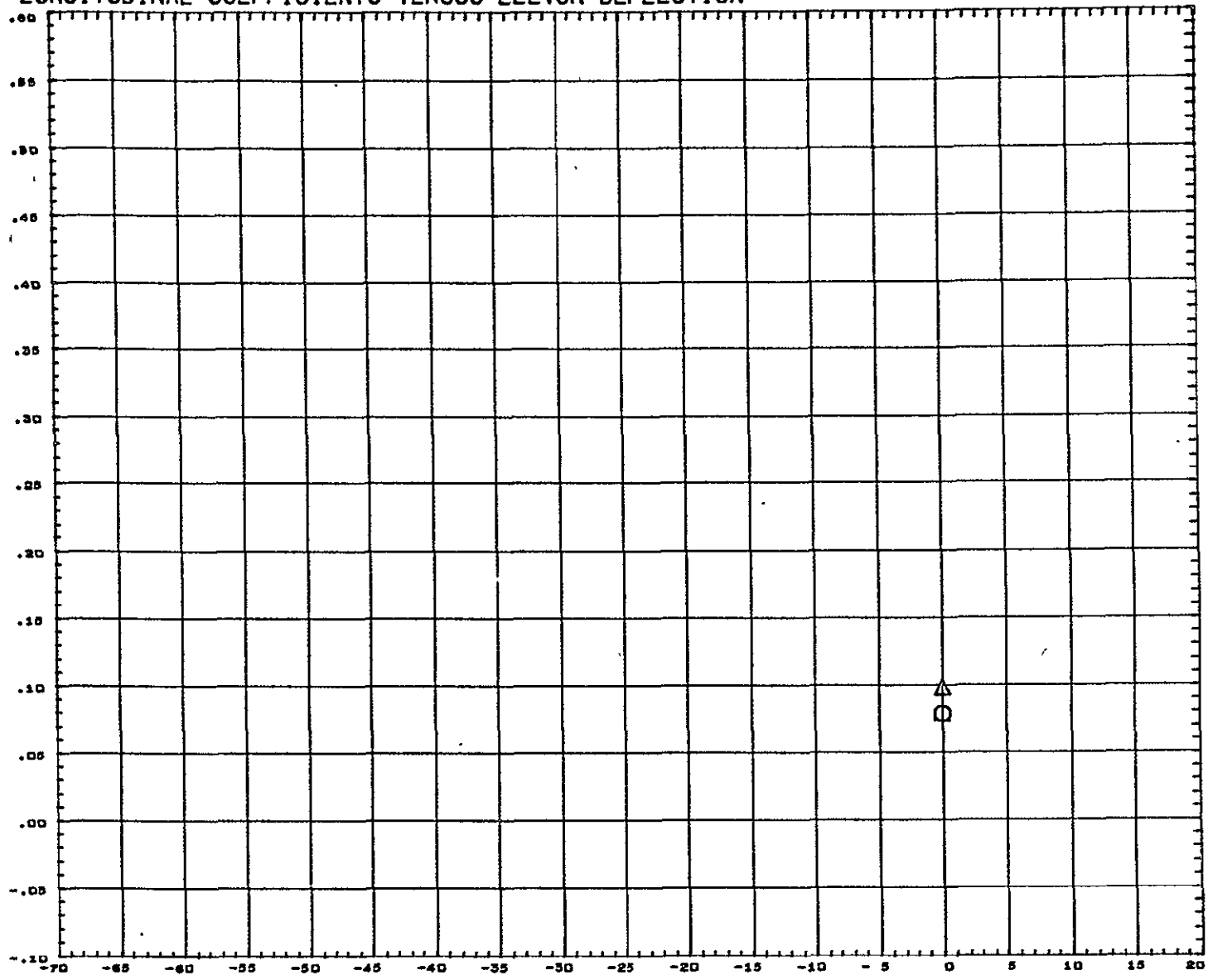
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28AD1	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
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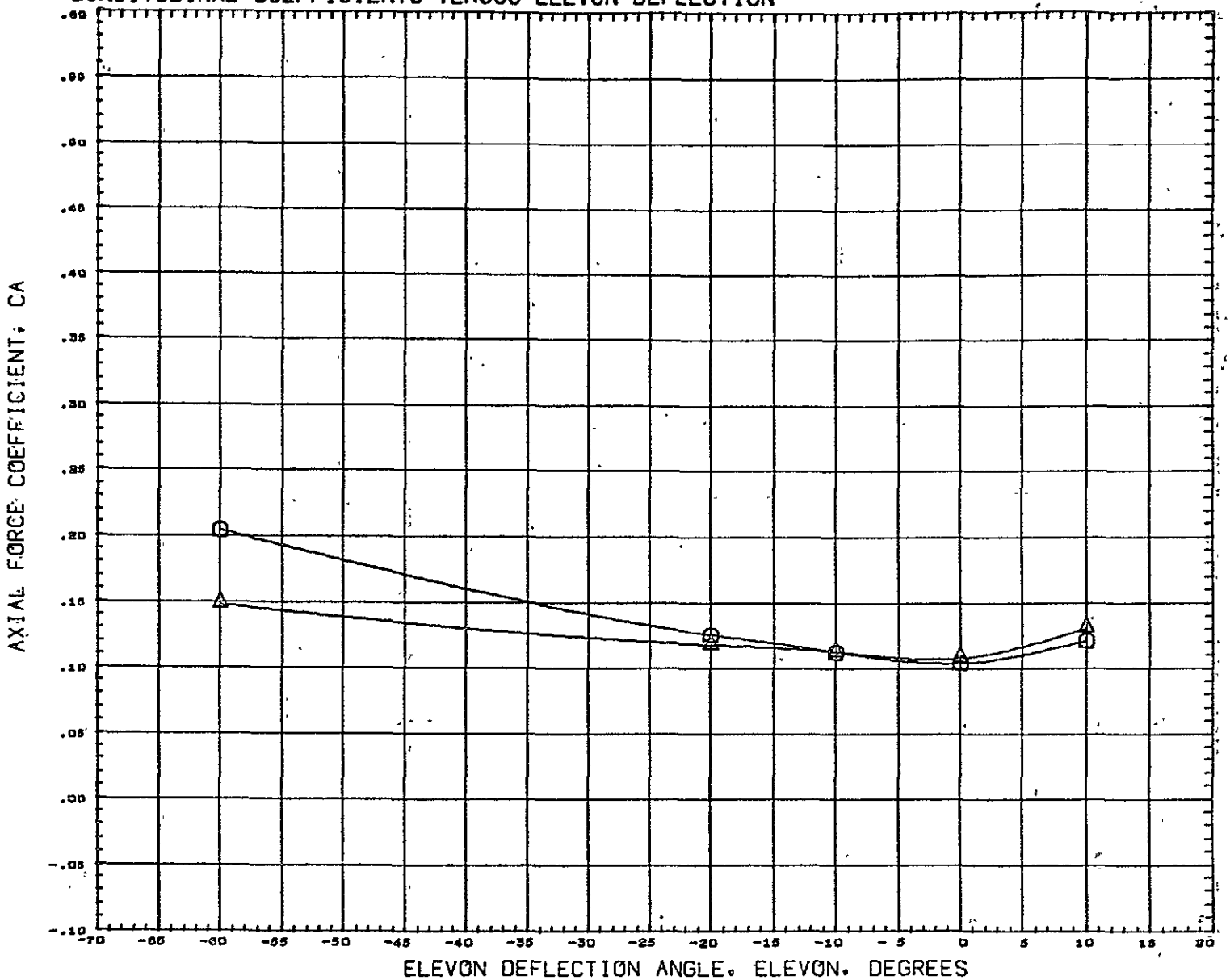
△	20.000	DEL	- 60.000	DER	- 60.000	G28E74	- 60.000	G28E71	- 20.000	LREF	3.0950	IN.
		DCL	0.000	DCR	0.000	G28AD1	- 10.000	G28B31	0.000	BREF	6.0990	IN.
		CANARD	0.000	AILRON	0.000	G28E77	10.000			XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE HVR*EI

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

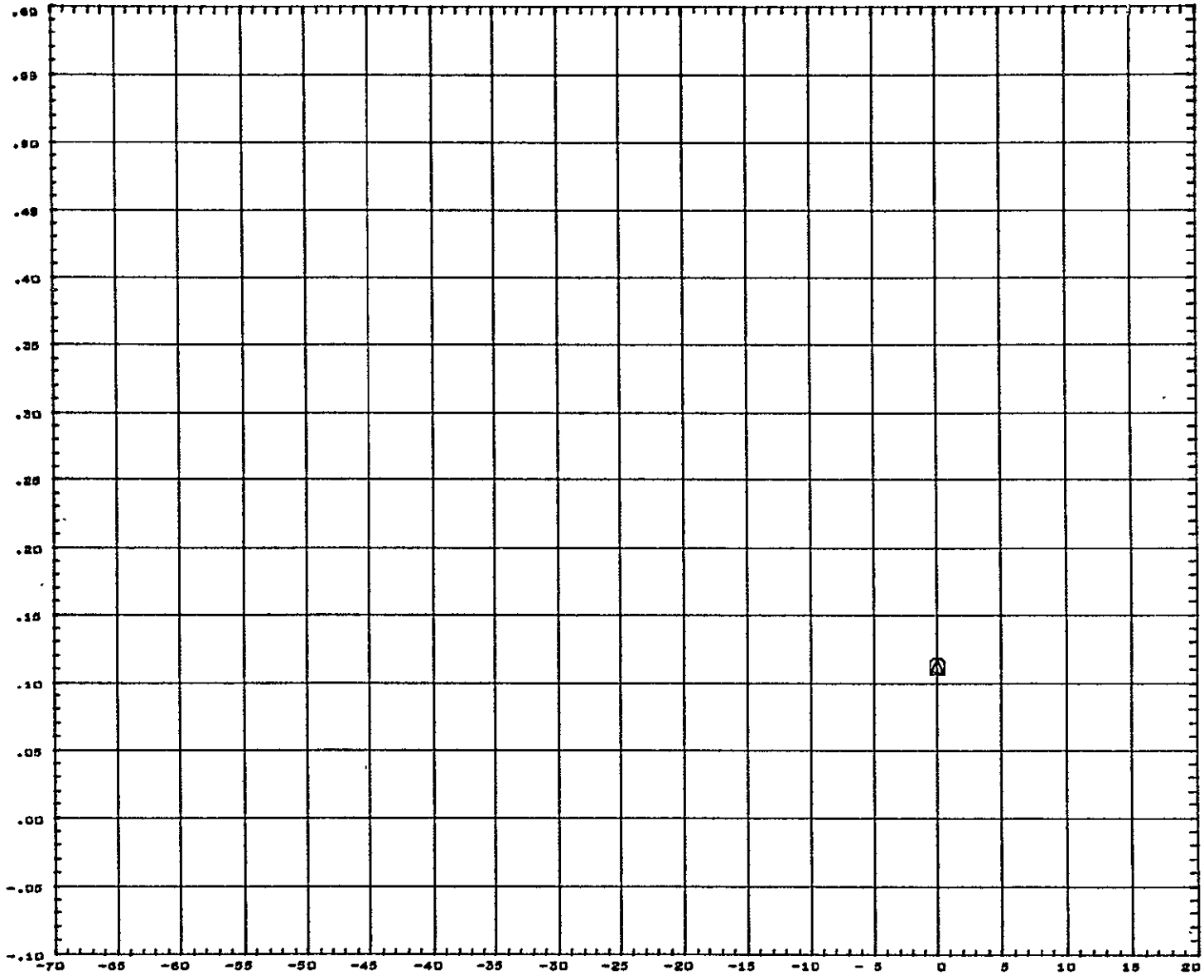
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ. IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

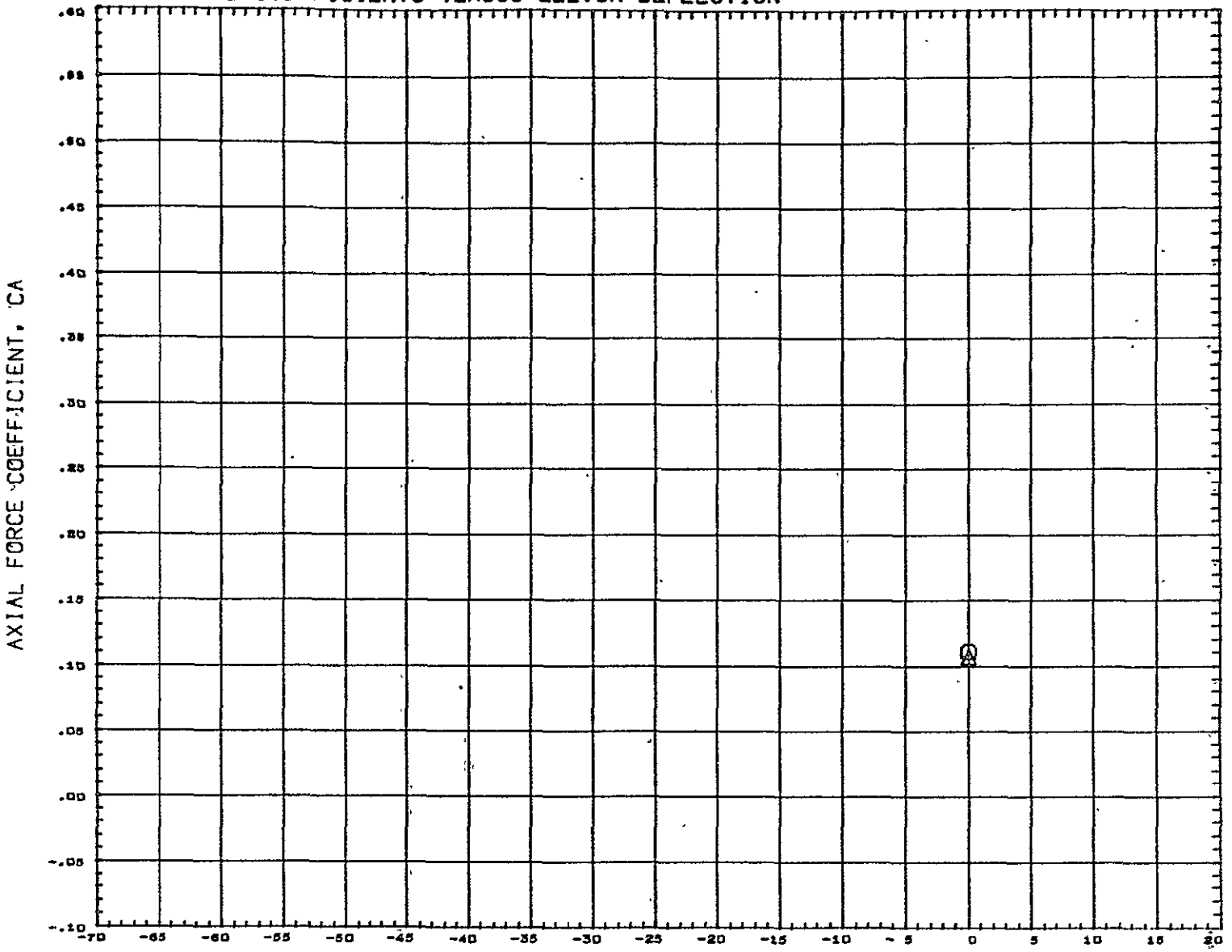
PARAMETRIC VALUES			
MACH	1.050	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR#EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28AD1	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.100	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

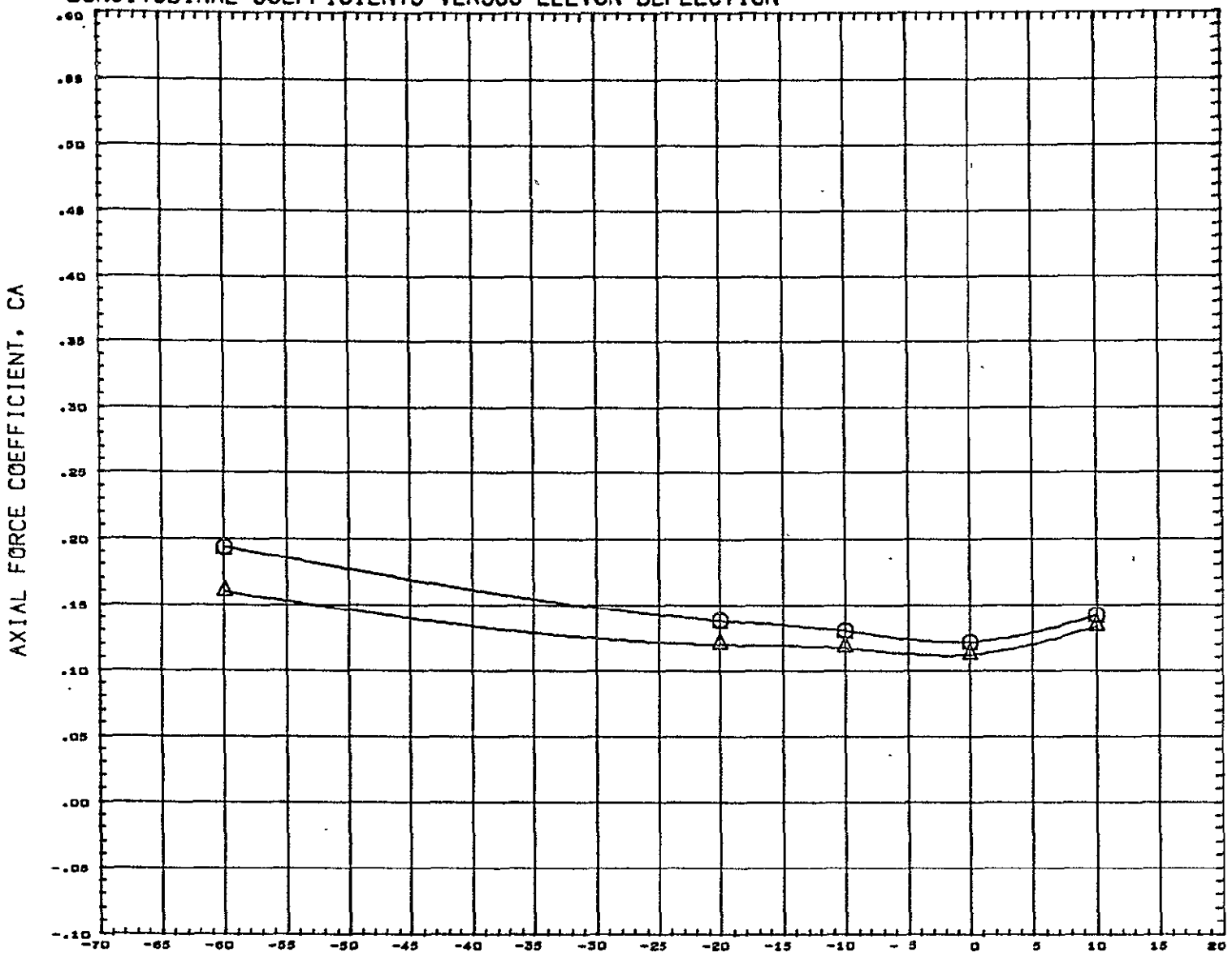
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

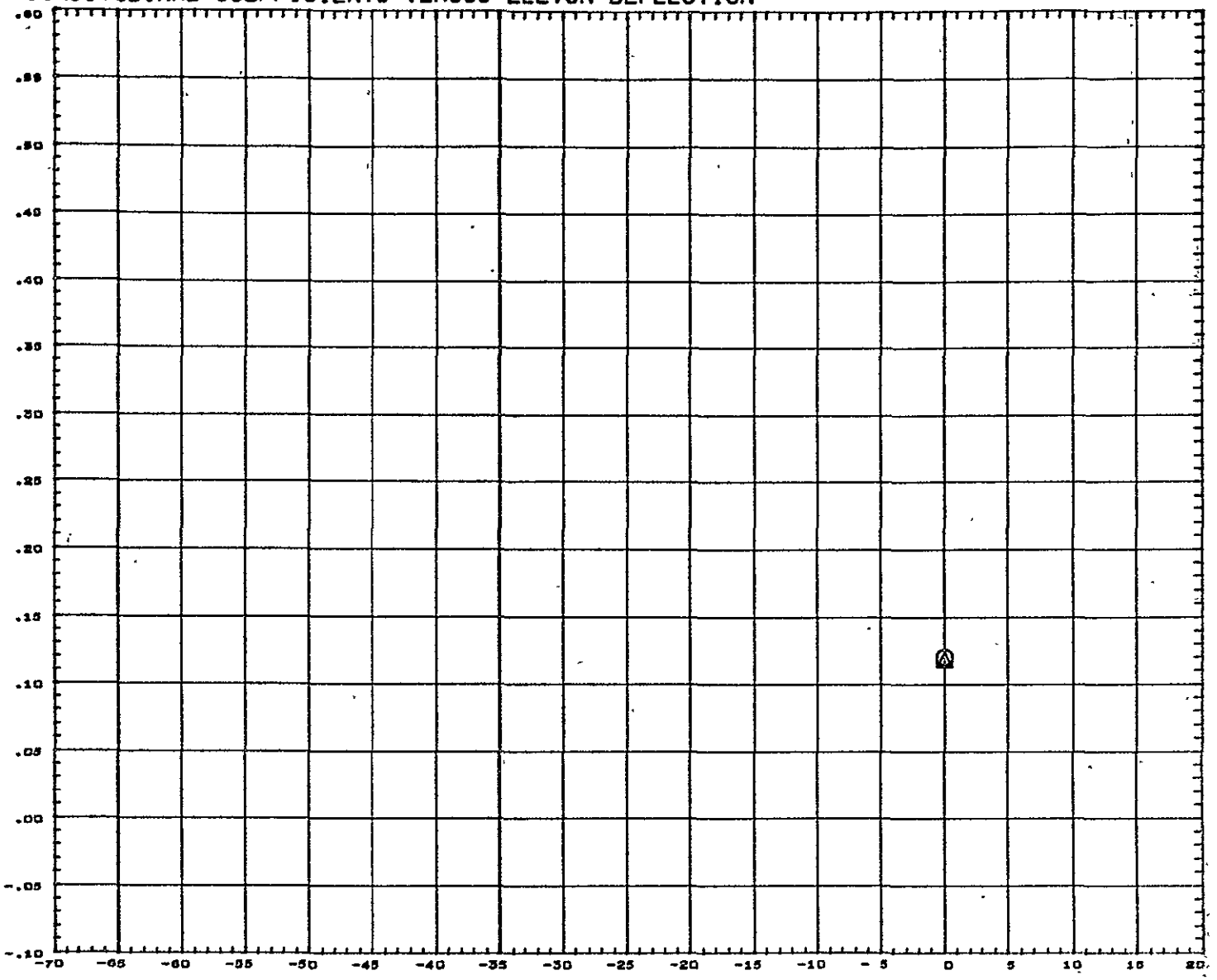
PARAMETRIC VALUES			
MACH	1.200	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1

DATA SOURCE					
DATASET	ELEVON		DATASET	ELEVON	
G28E74	- 60.000		G28E71	- 20.000	
G28A01	- 10.000		G28B31	0.000	
G28E77	10.000				

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.500	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR9E1

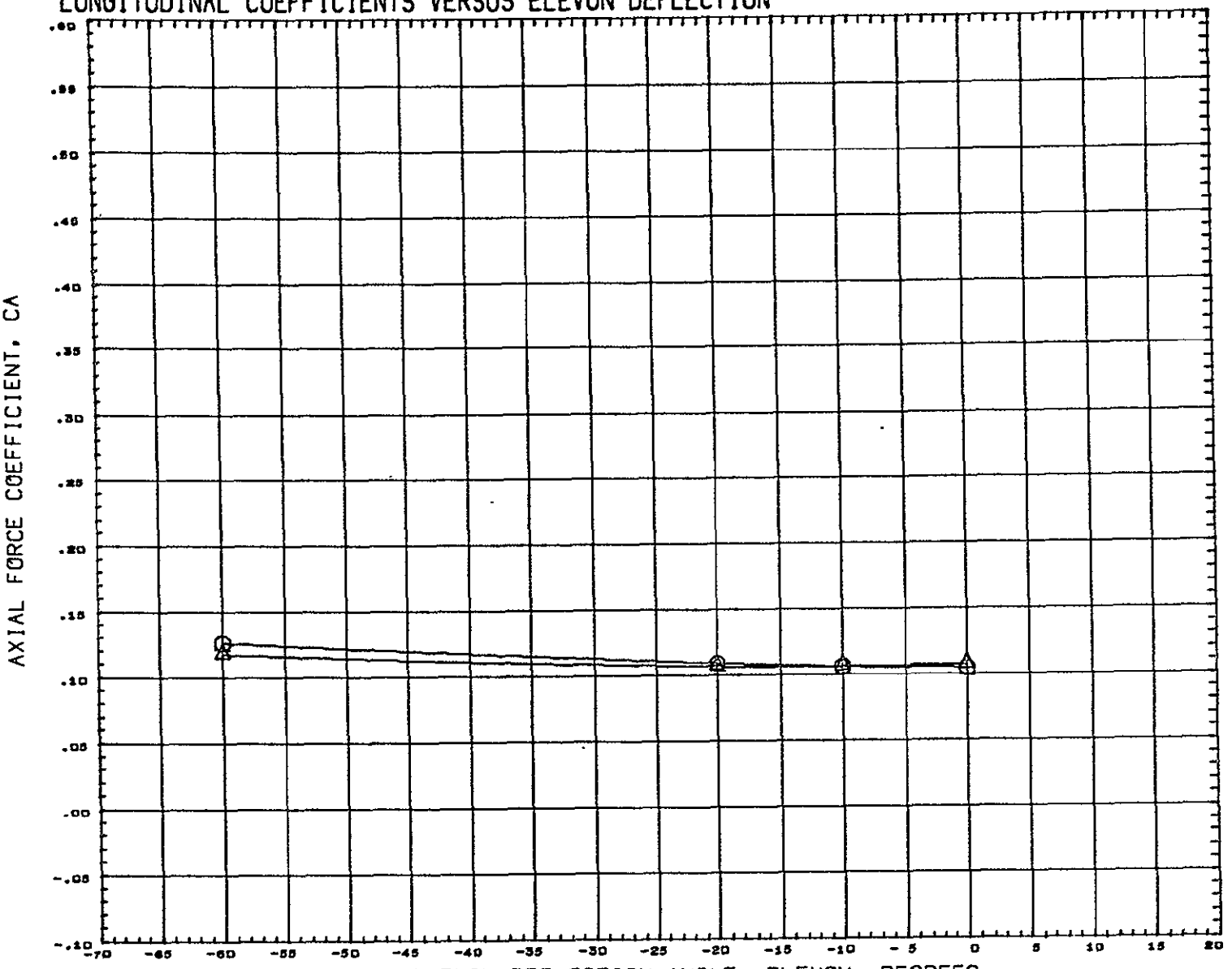
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000		
DEL	- 60.000	DER	- 60.000		
DCL	0.000	DCR	0.000		
CANARD	0.000	AILRON	0.000		

DATA HIST. CODE MVR*EI

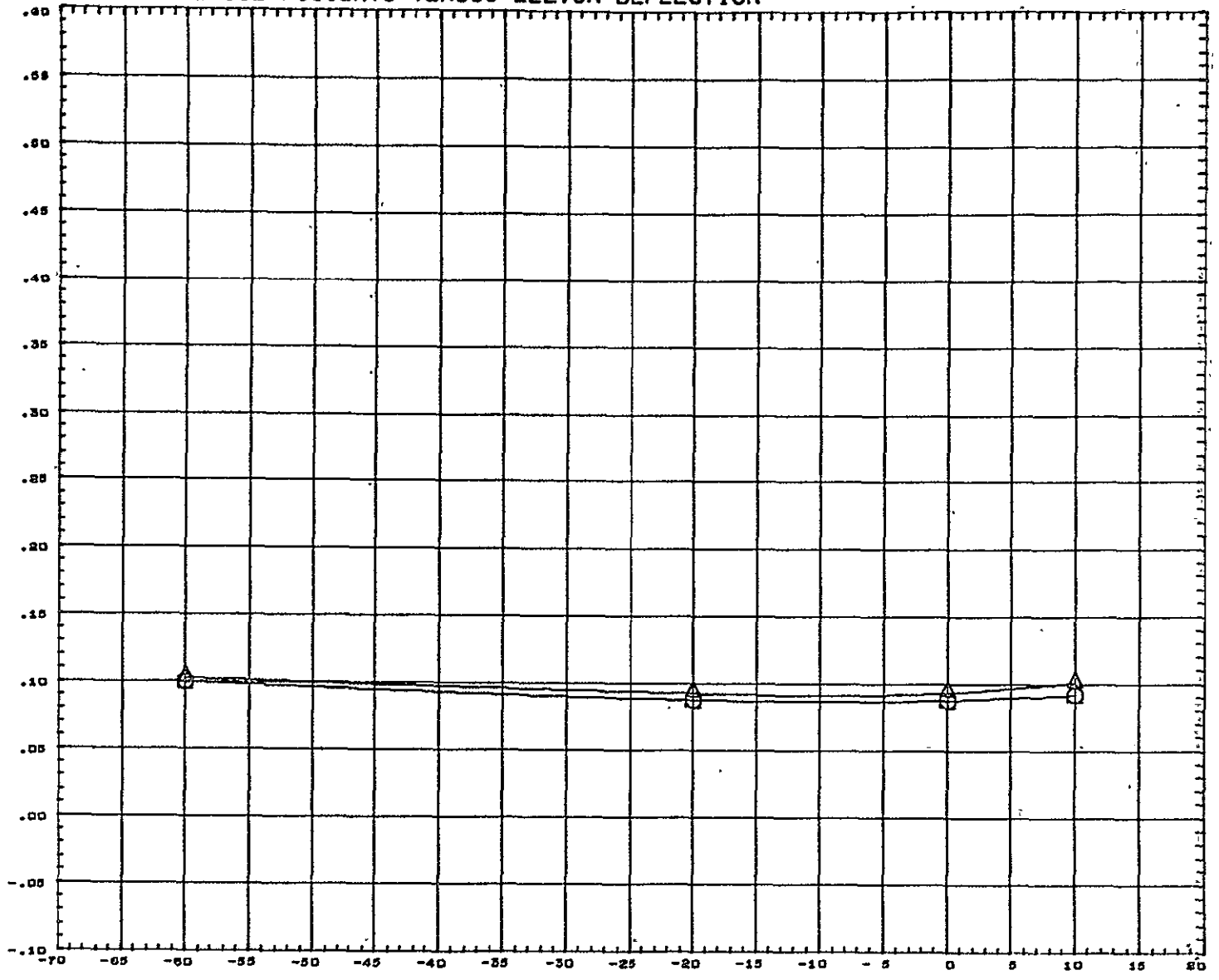
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

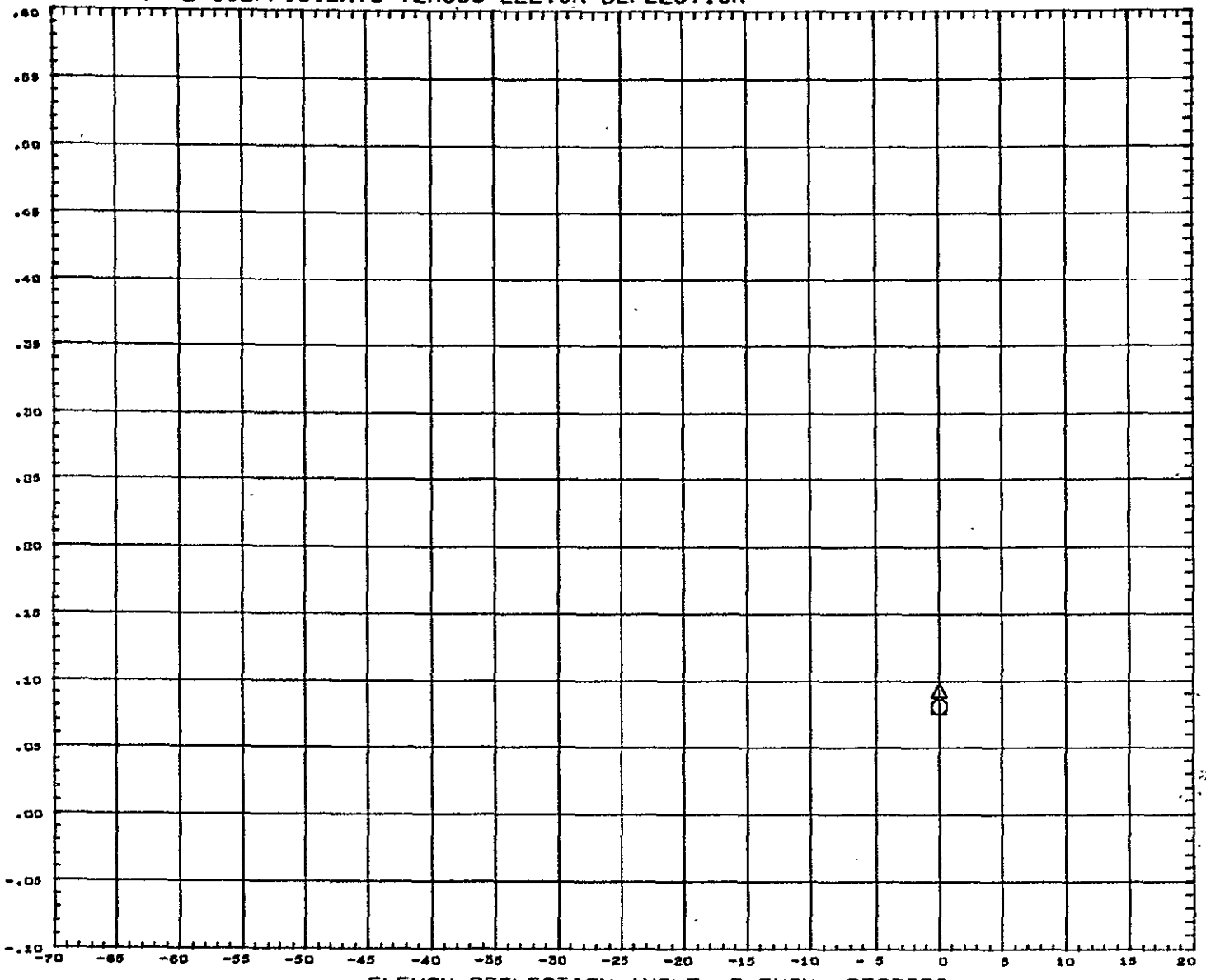
PARAMETRIC VALUES			
MACH	3.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28AD1	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

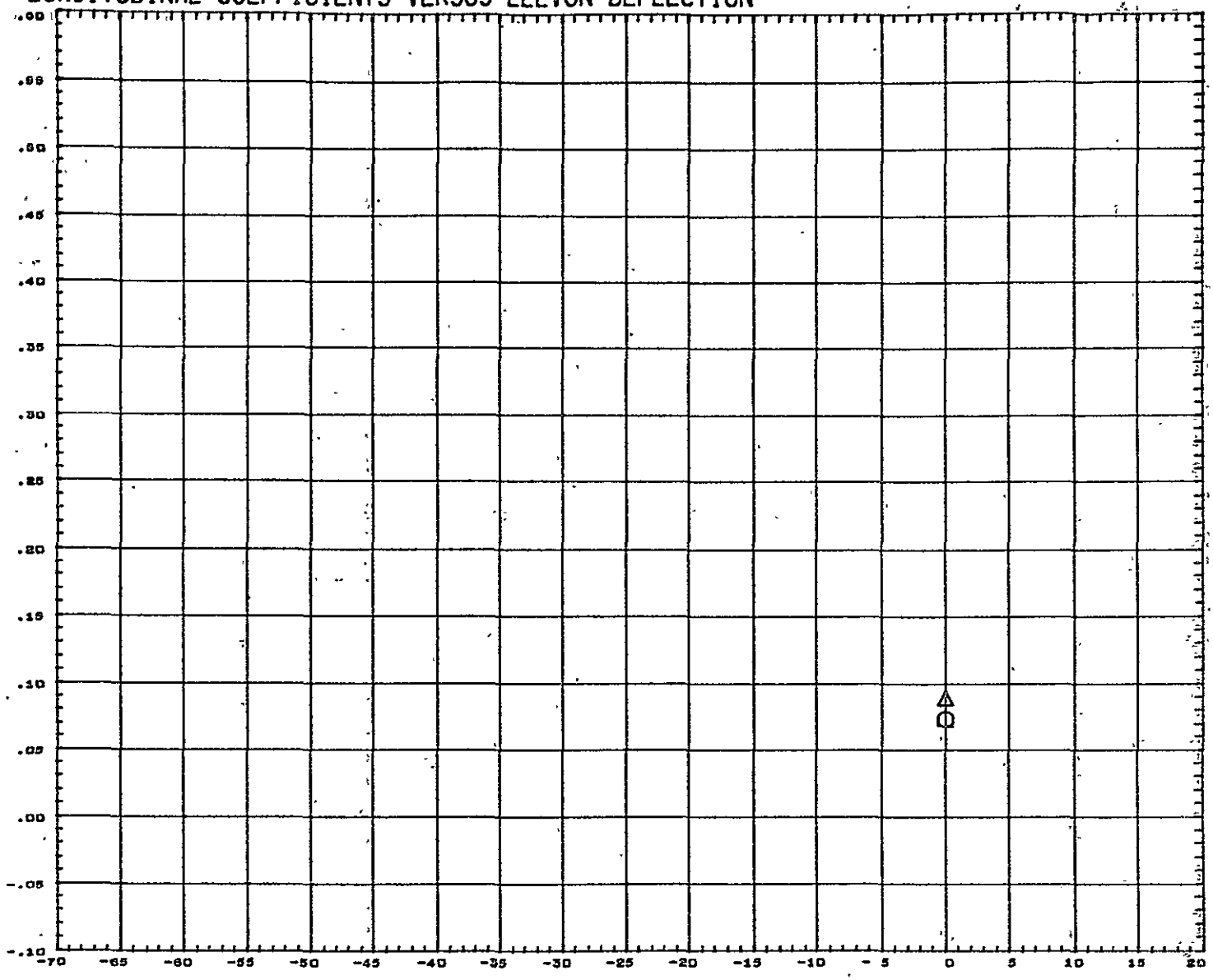
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G26E71	- 20.000
G28A01	- 10.000	G26B31	0.000
G26E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCRS	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E1

DATA SOURCE

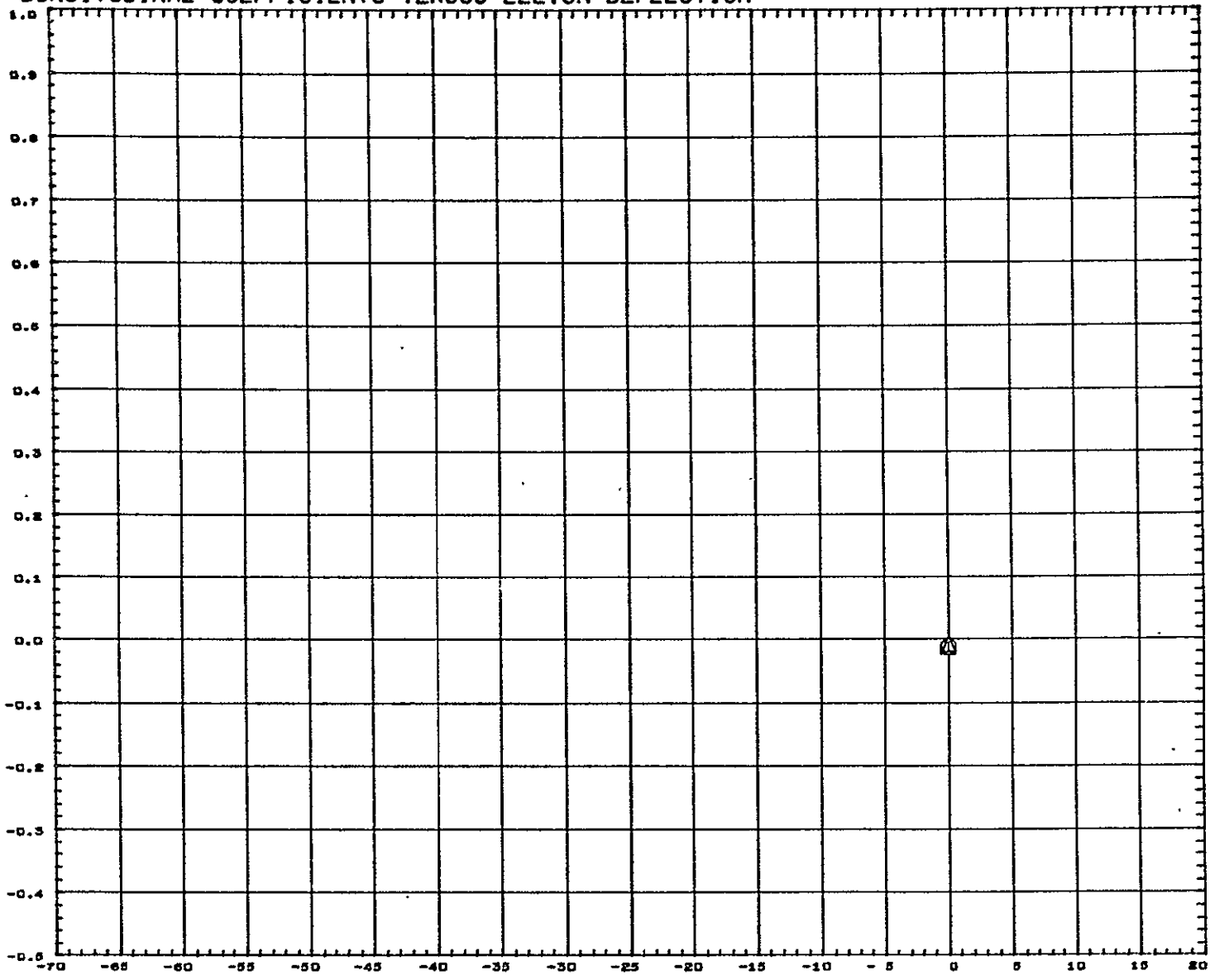
DATASET	ELEVON
G28E74	- 60.000
G28A01	- 10.000
G28E77	10.000

DATASET	ELEVON
G28E71	- 20.000
G28831	0.000

REFERENCE INFORMATION

SREF	15.6360	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

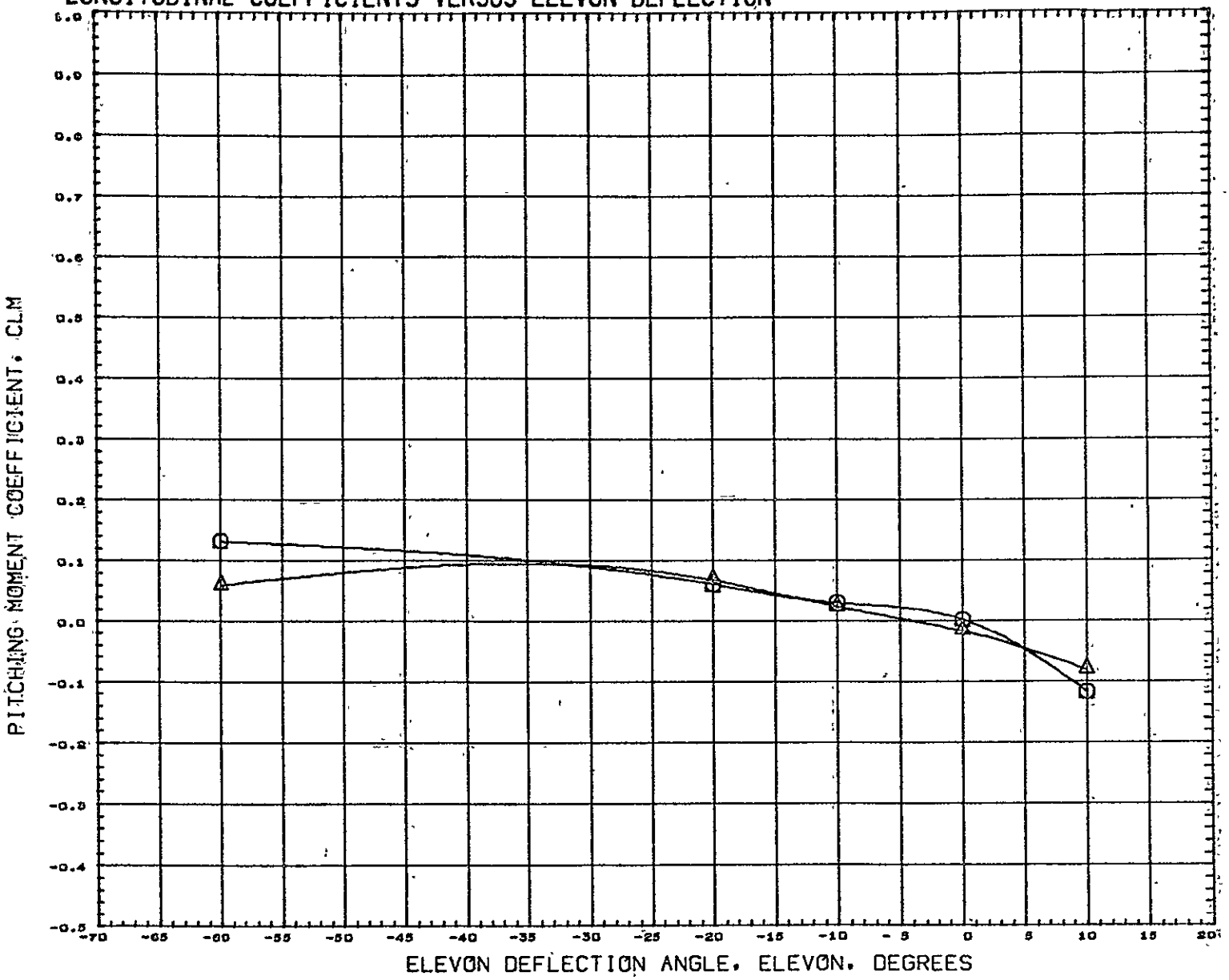
PARAMETRIC VALUES			
MACH	0.600	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

DATA SOURCE					
DATASET	ELEVON	DATASET	ELEVON		
G28E74	- 60.000	G28E71	- 20.000		
G28AU1	- 10.000	G28B31	0.000		
G28E77	10.000				

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

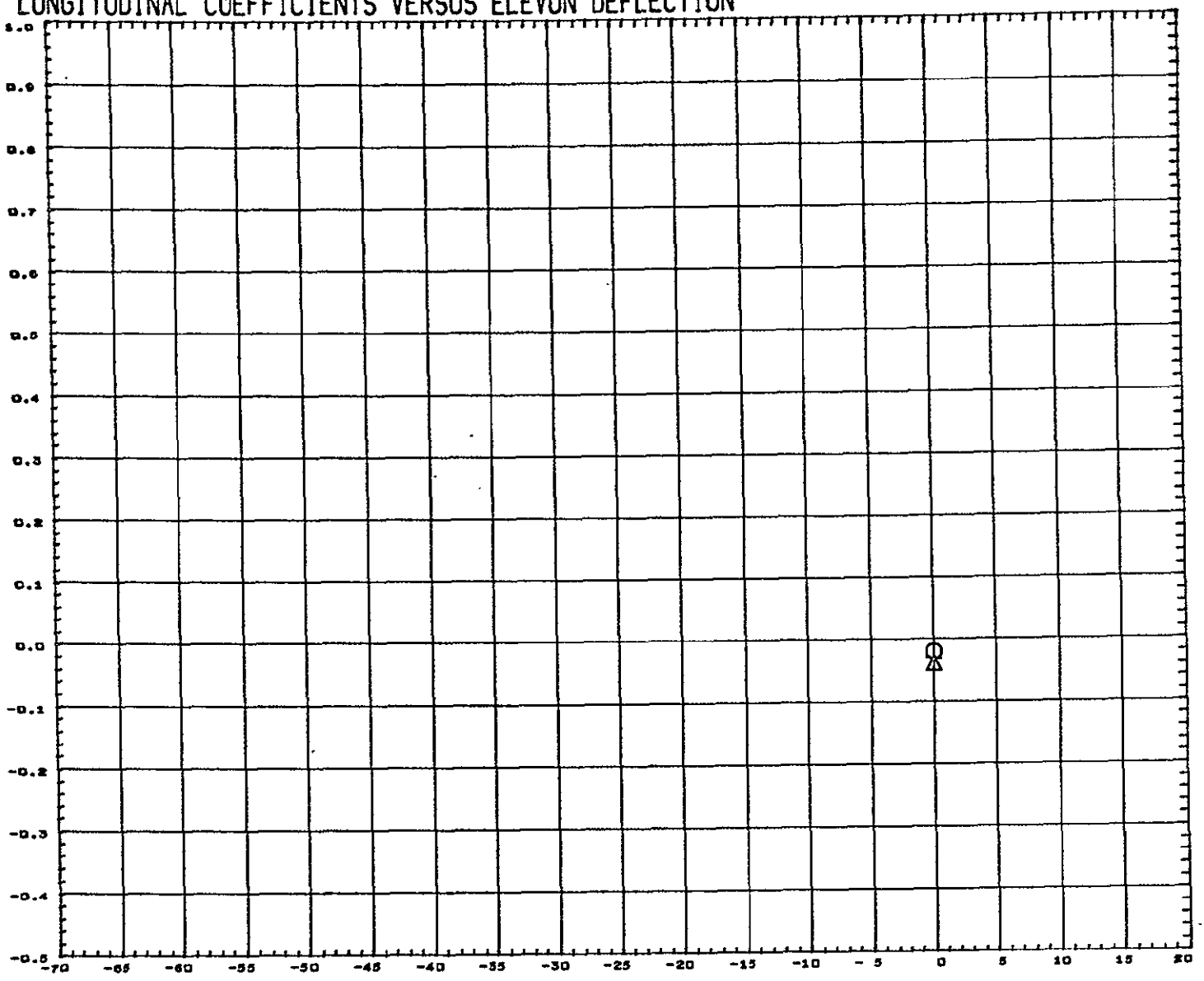
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

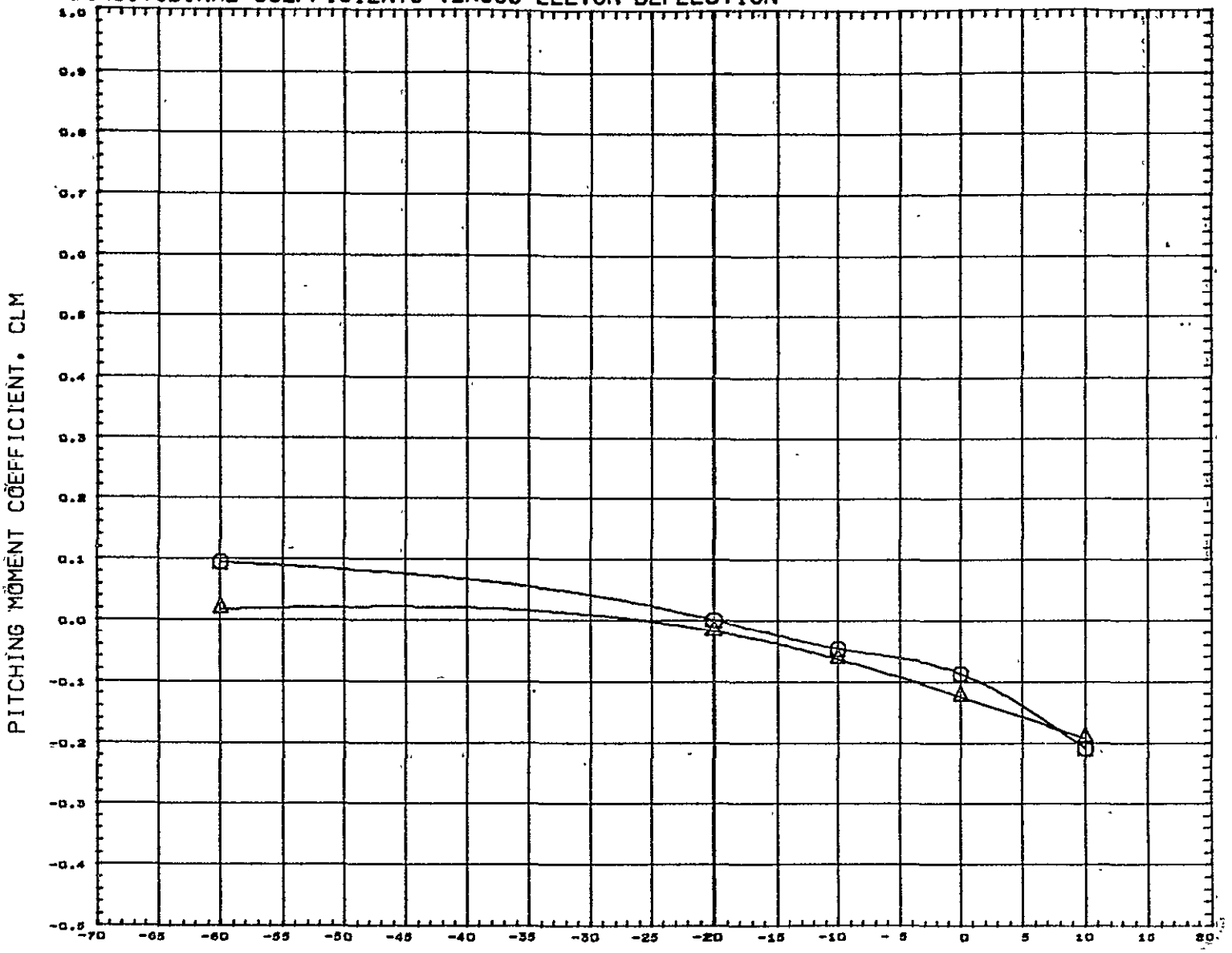
PARAMETRIC VALUES			
MACH	0.950	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

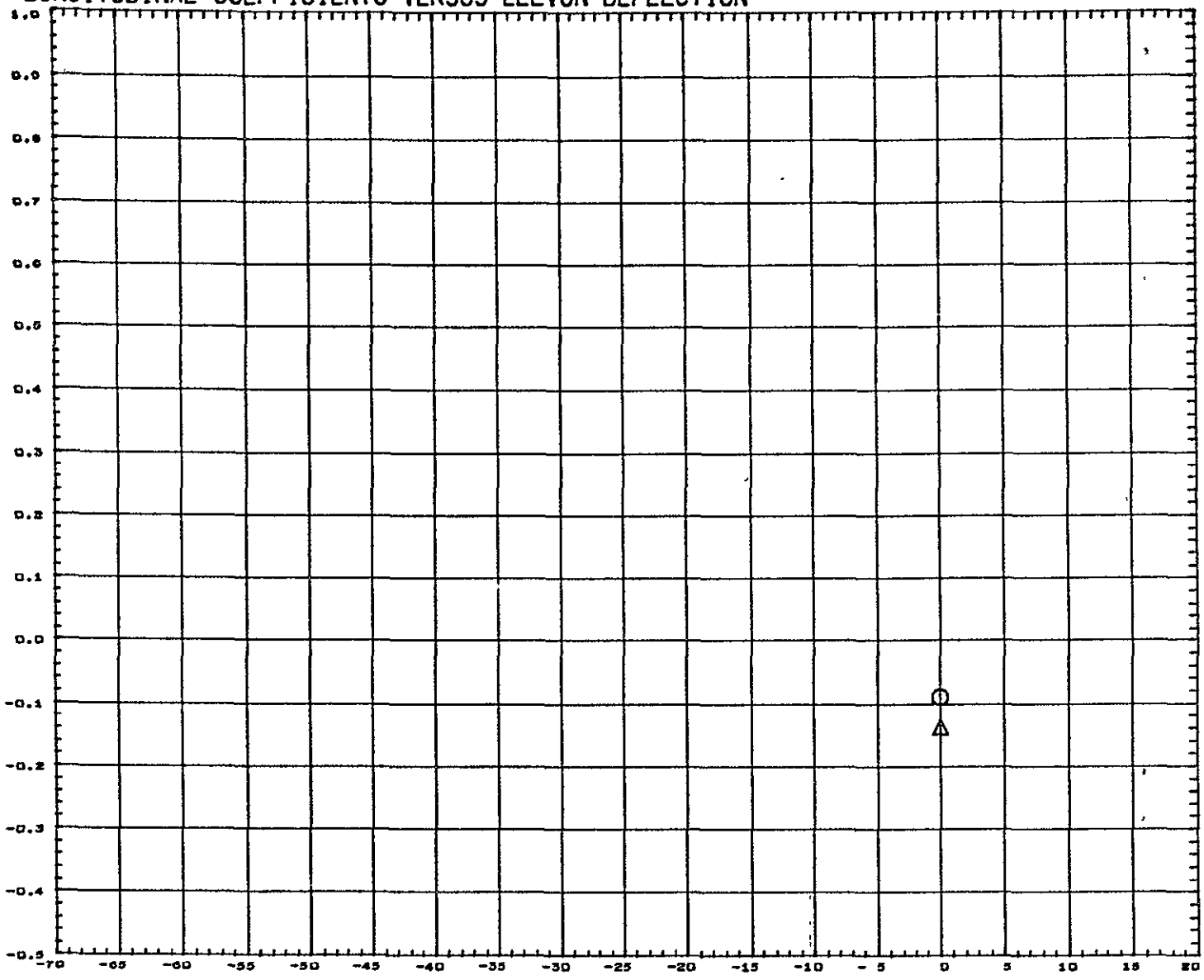
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

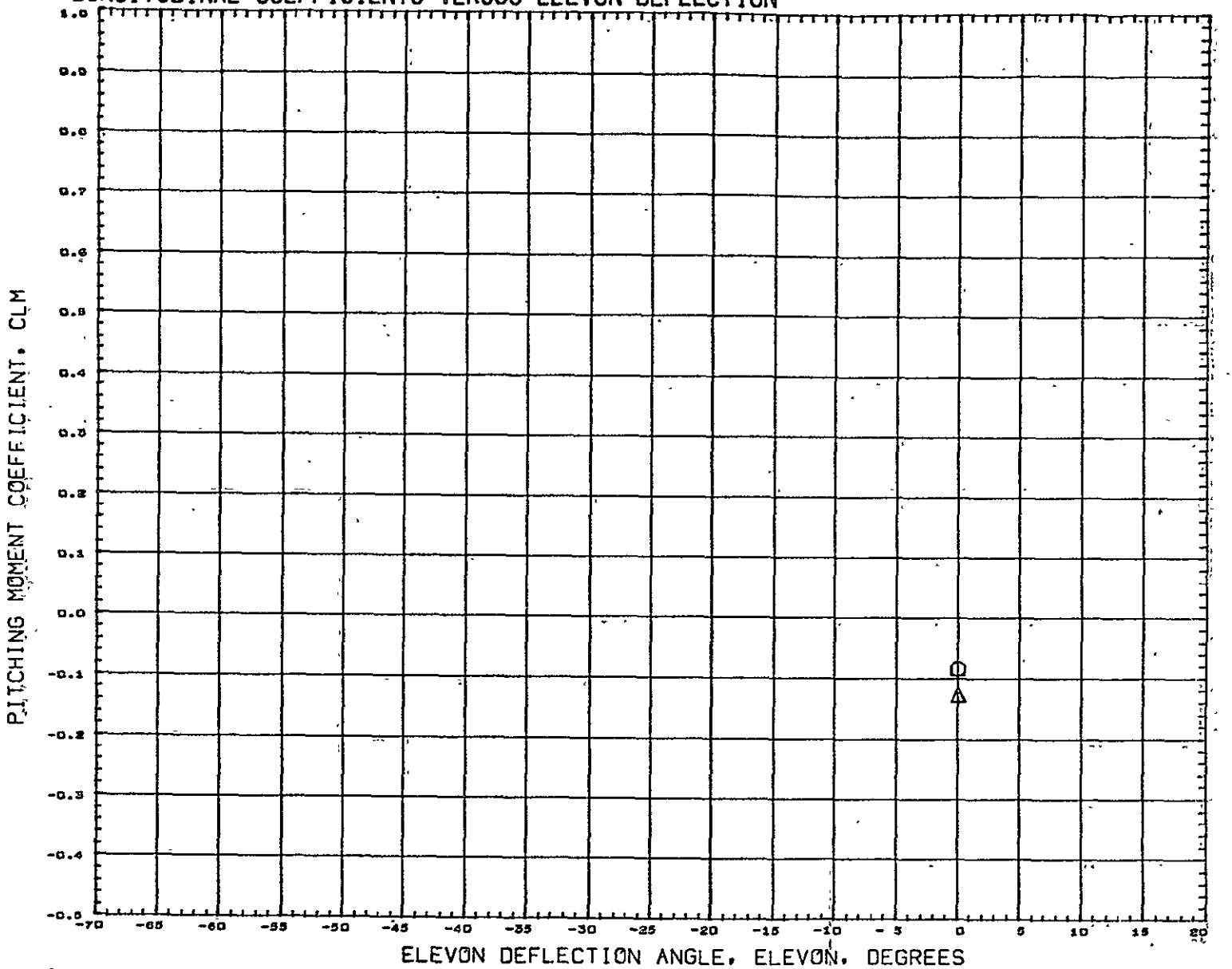
PARAMETRIC VALUES			
MACH	1.050	BETA	0.000
DEL	-60.000	DER	-60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

DATA SOURCE					
DATASET	ELEVON		DATASET	ELEVON	
G28E74	-60.000		G28E71	-20.000	
G28A01	-10.000		G28B31	0.000	
G28E77	10.000				

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.100	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

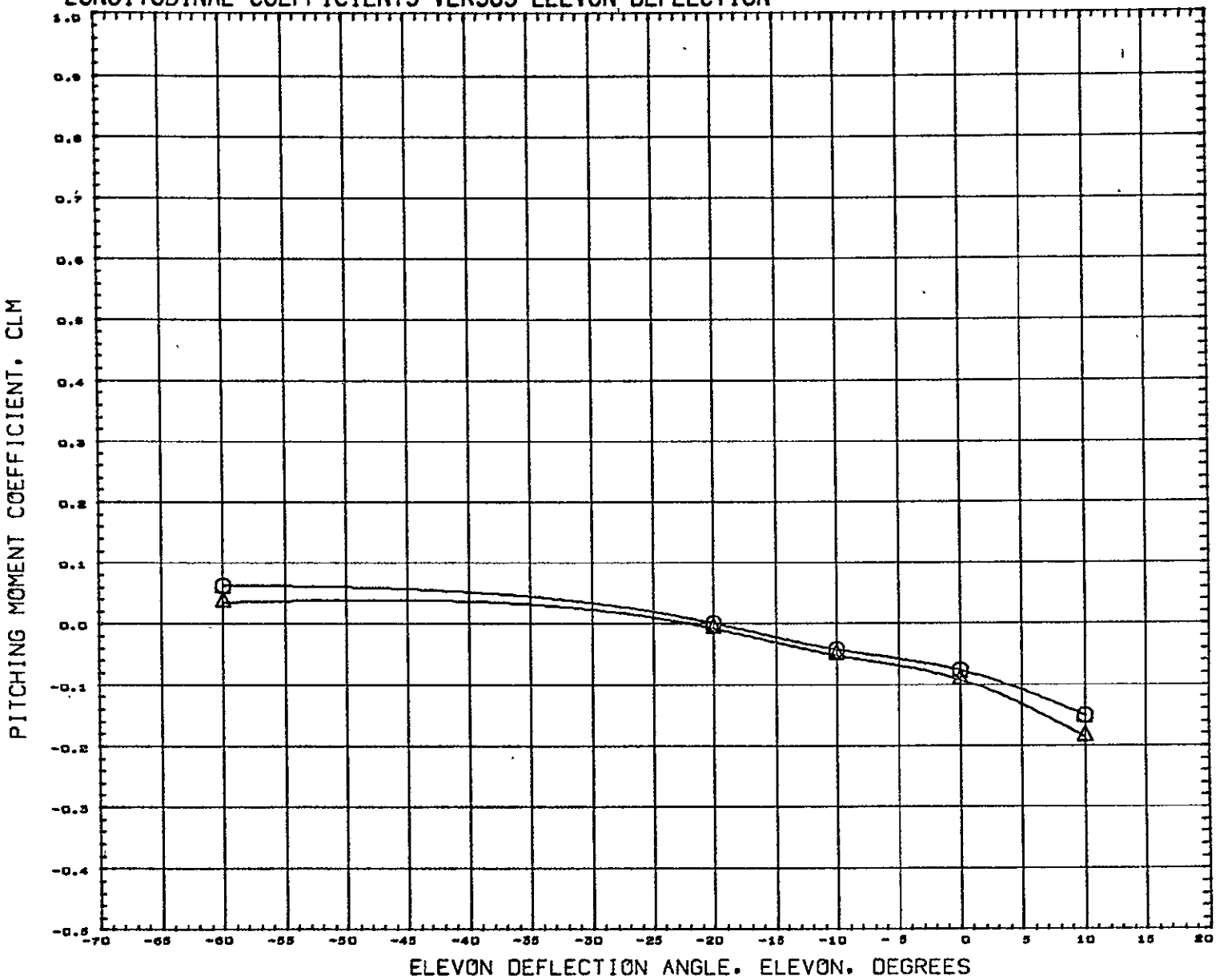
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
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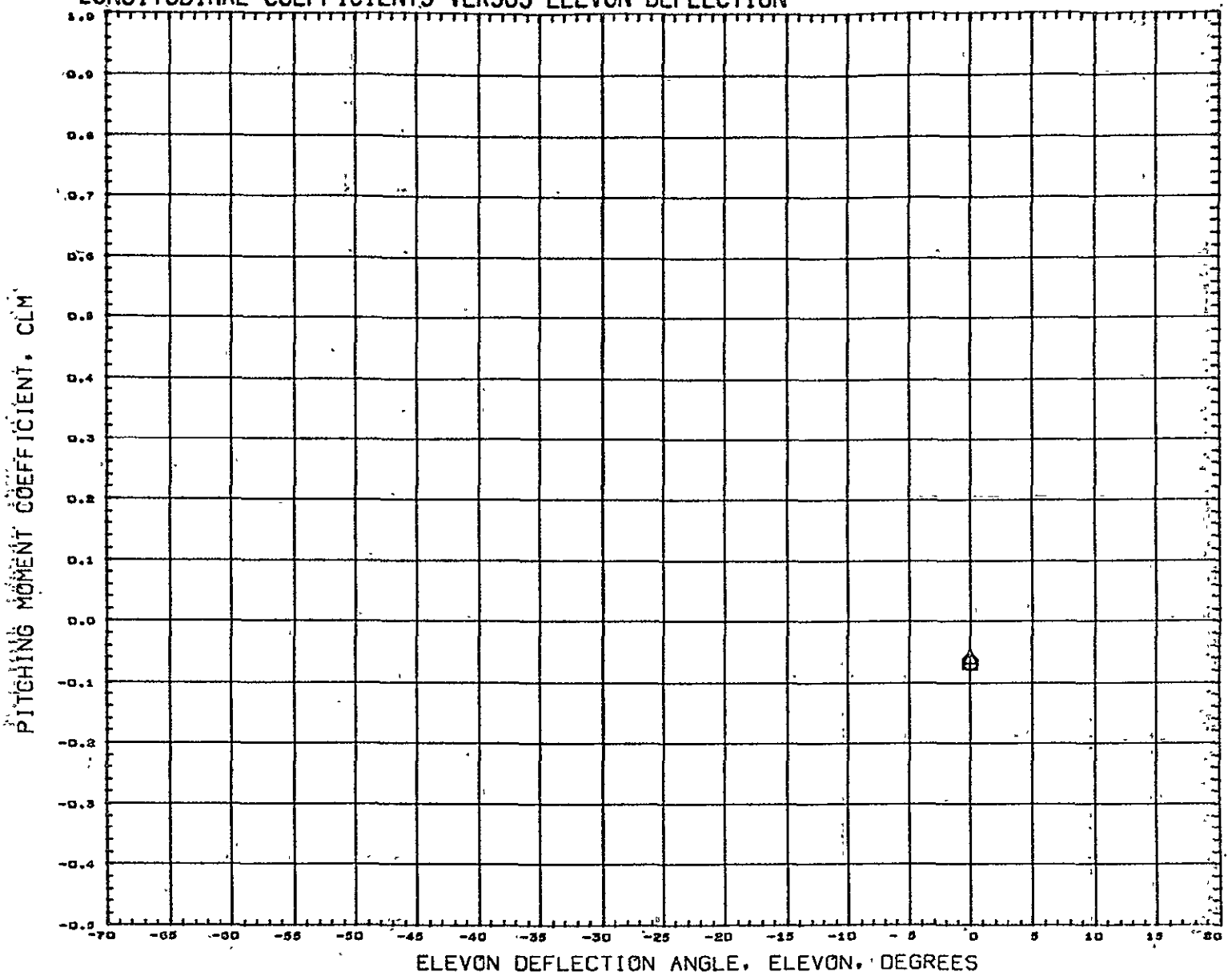
△	20.000	DEL	- 60.000	DER	- 60.000	G28E74	- 60.000	G28E71	- 20.000	LREF	3.0950	IN.
		DCL	0.000	DCR	0.000	G28AD1	- 10.000	G28B31	0.000	BREF	6.0990	IN.
		CANARD	0.000	AILRON	0.000	G28E77	10.000			XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE HVR*EI

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

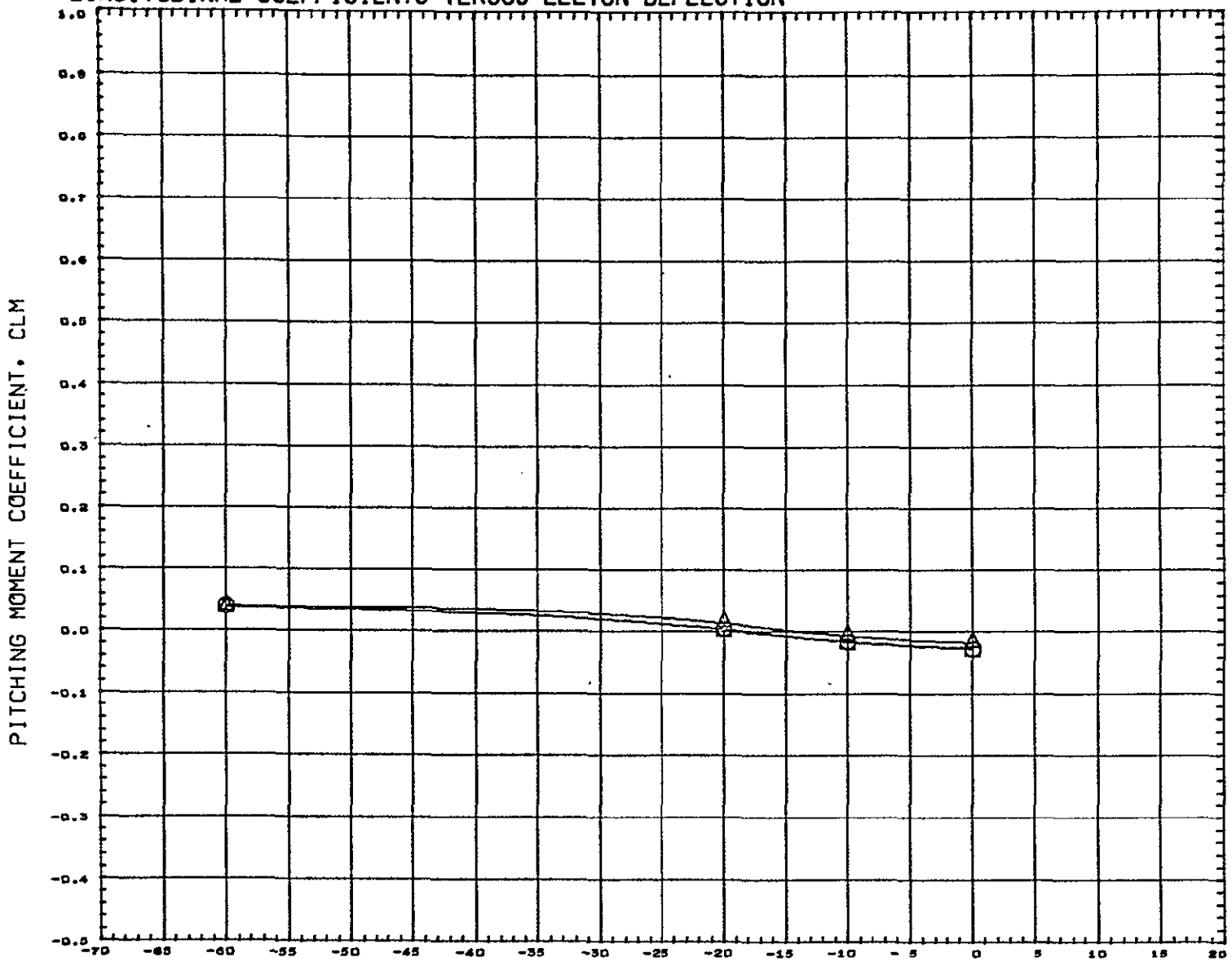
PARAMETRIC VALUES			
MACH	1.500	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

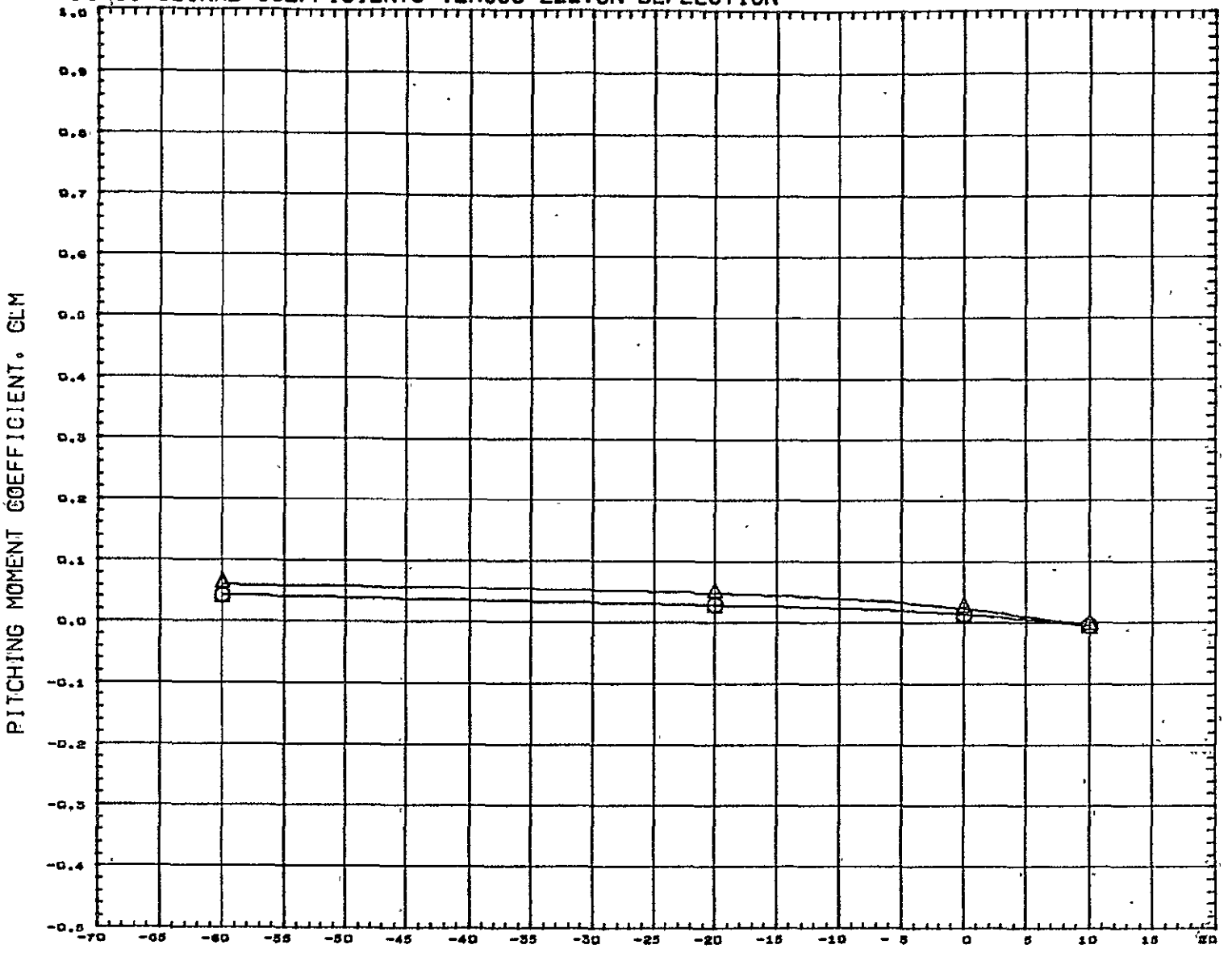
PARAMETRIC VALUES			
MACH	2.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE					
DATASET	ELEVON	DATASET	ELEVON		
G28E74	- 60.000	G28E71	- 20.000		
G28AD1	- 10.000	G28B31	0.000		
G28E77	10.000				

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

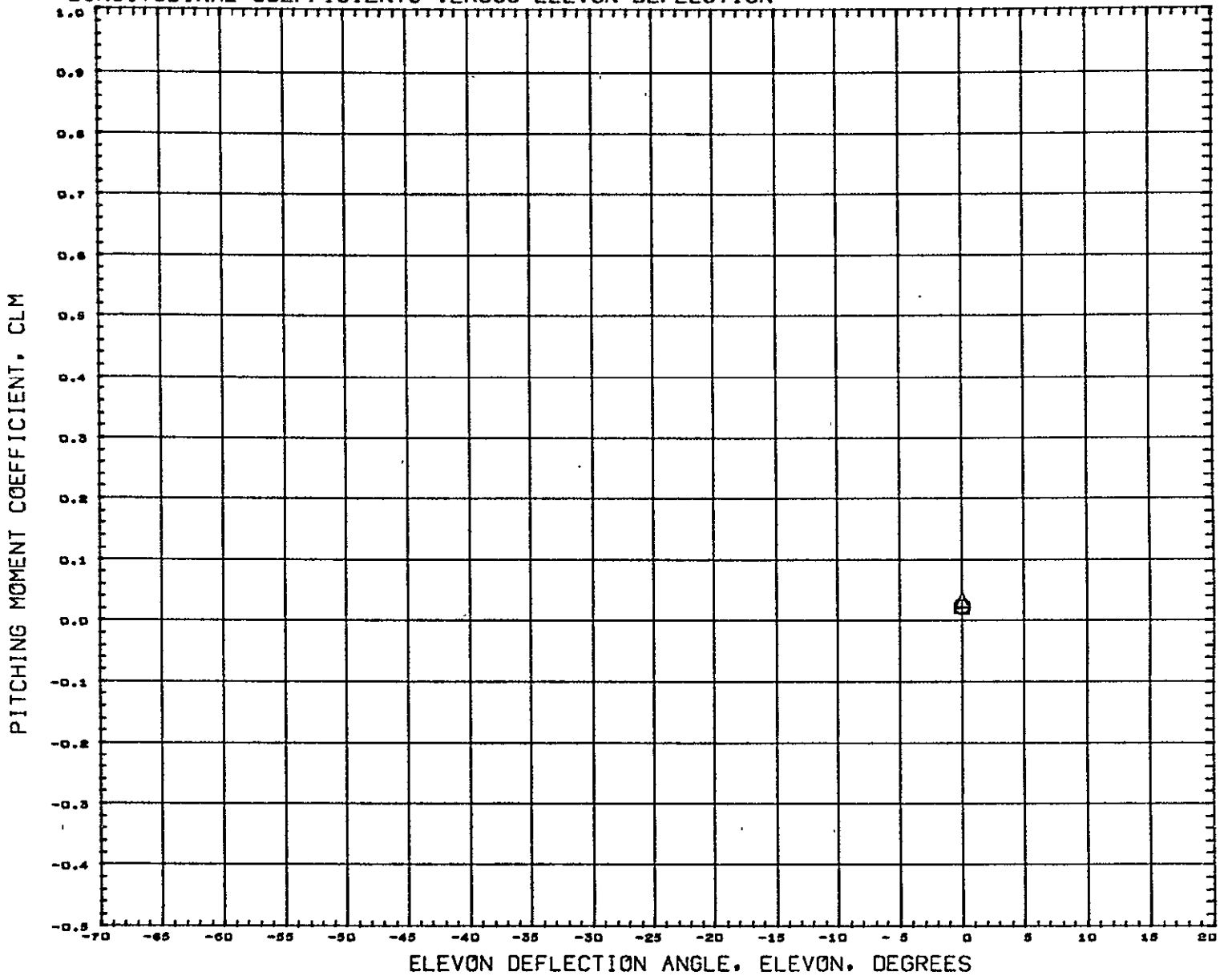
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0930	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

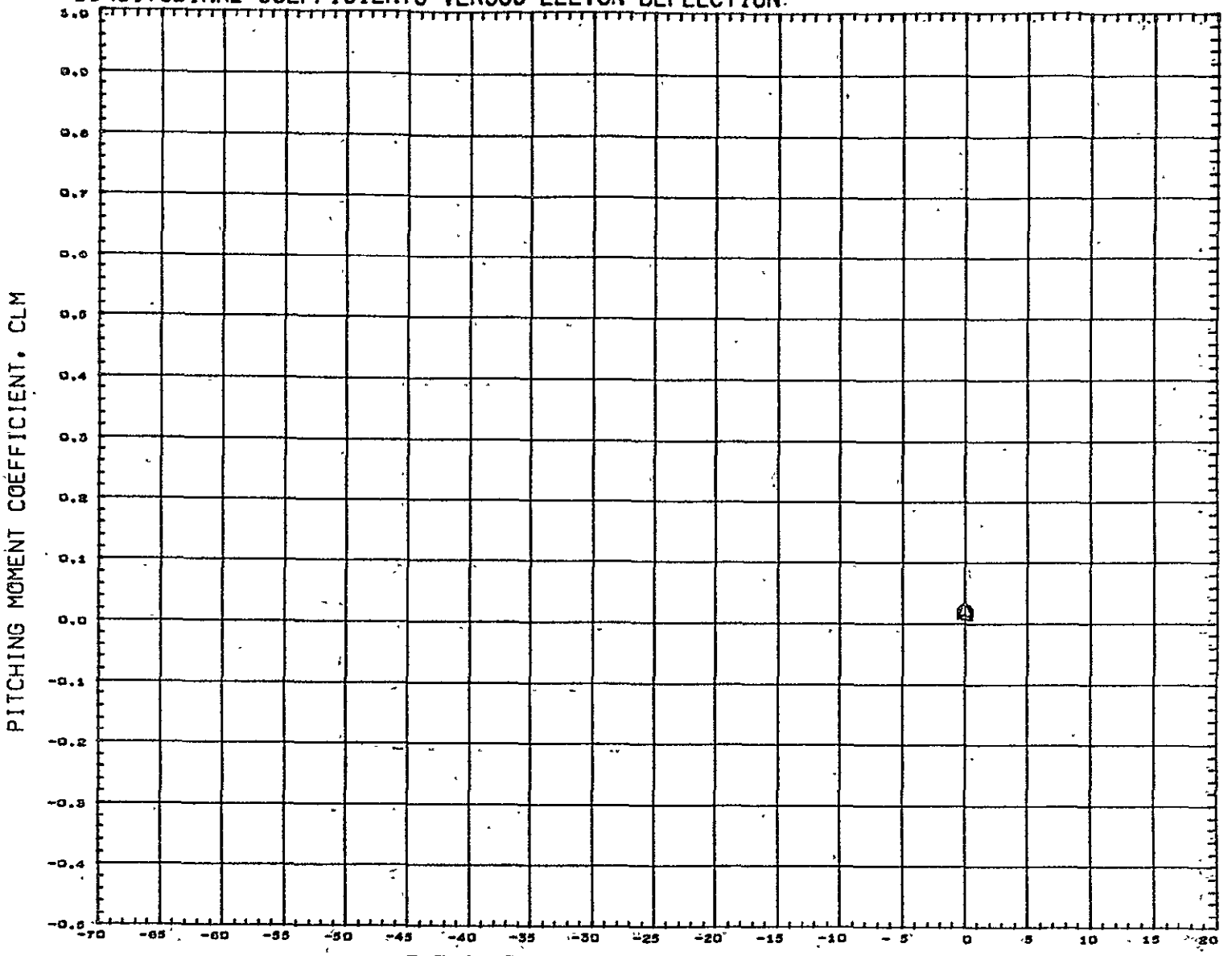
PARAMETRIC VALUES			
MACH	4.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE					
DATASET	ELEVON	DATASET	ELEVON		
G28E74	- 60.000	G28E71	- 20.000		
G28A01	- 10.000	G28831	0.000		
G28E77	10.000				

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION.



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	5.000,	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000,	DCR	0.000
CANARD	0.000,	AILRON	0.000

DATA HIST. CODE HVR*E1

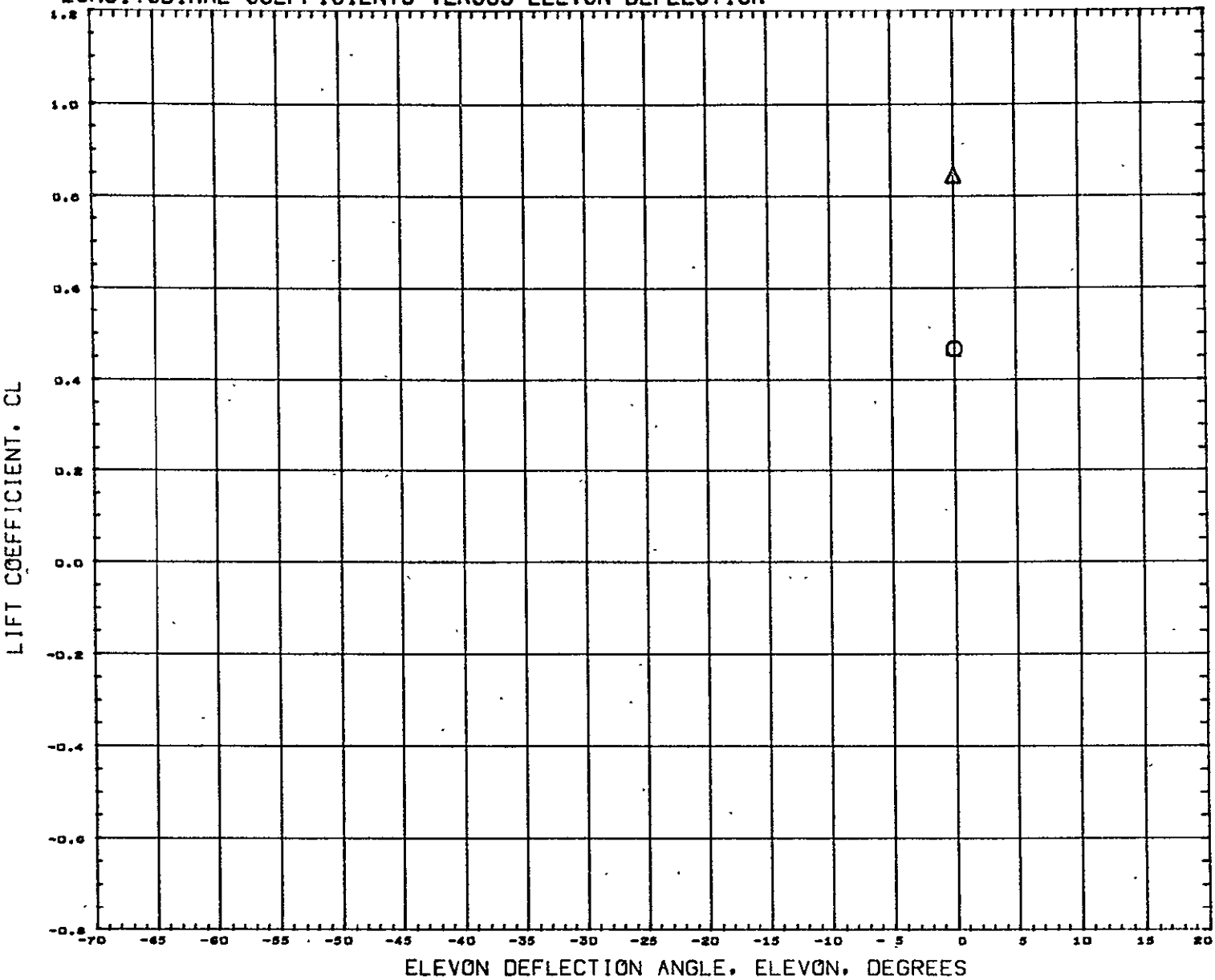
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.600	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA MIST. CODE MVR*EI

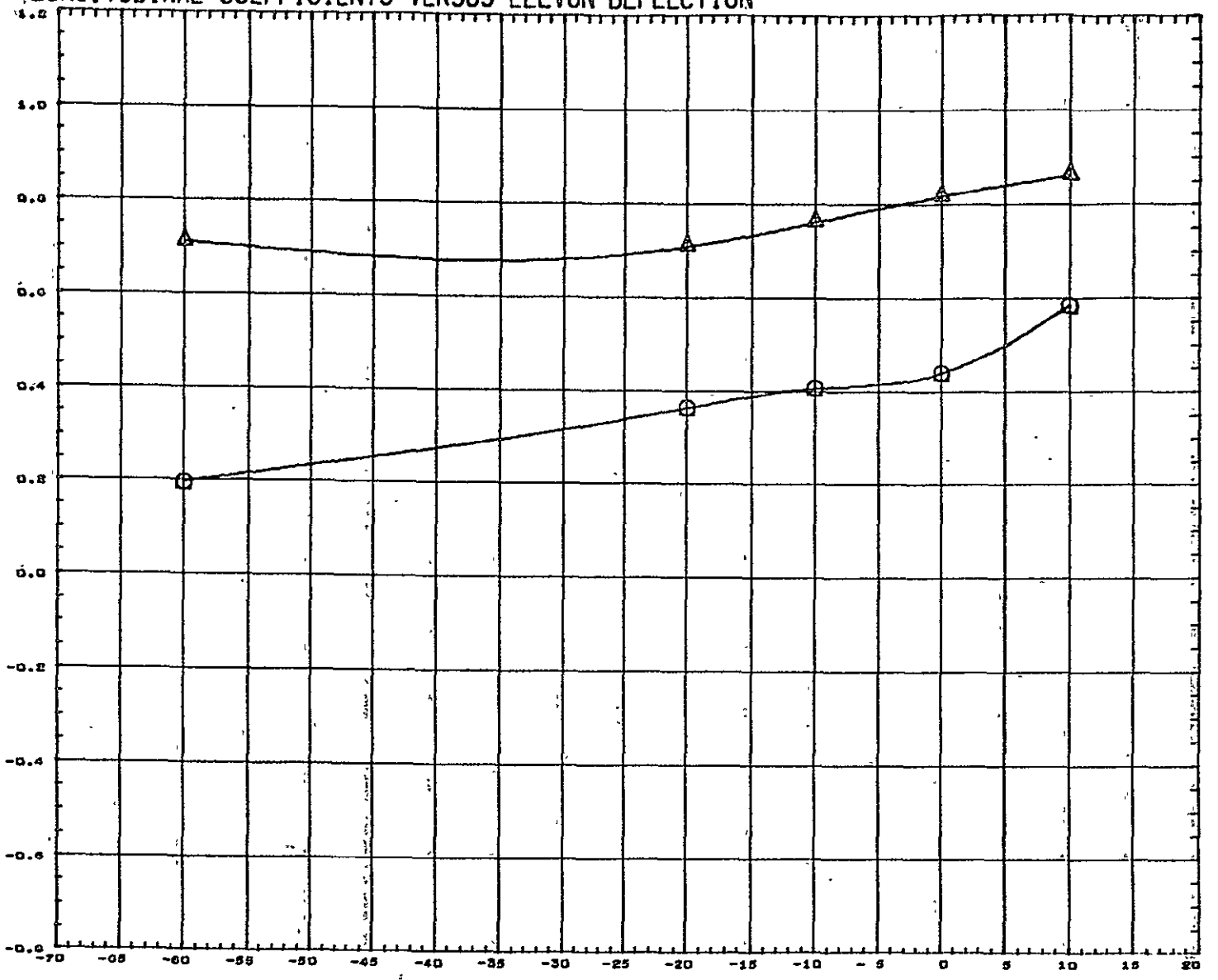
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1

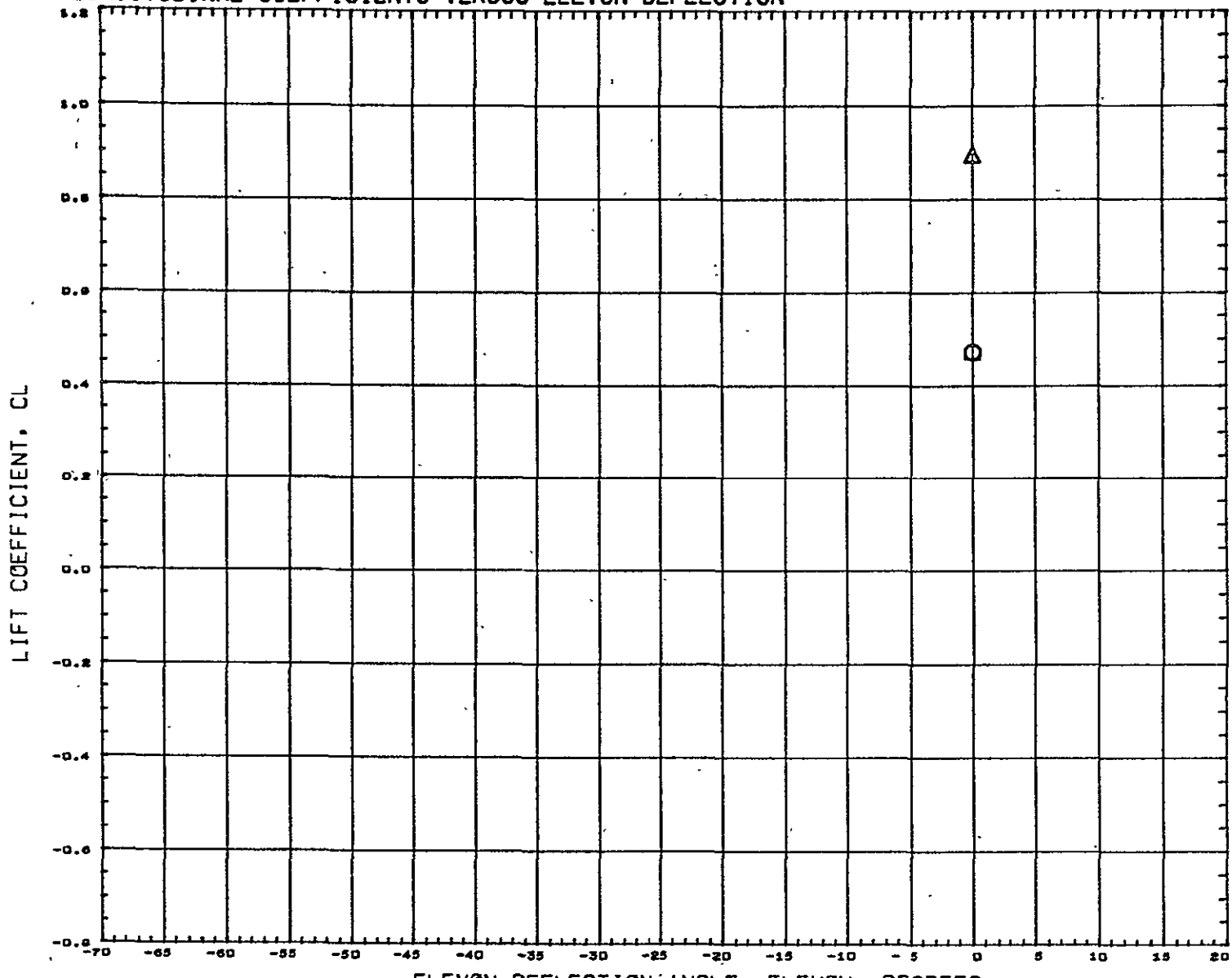
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

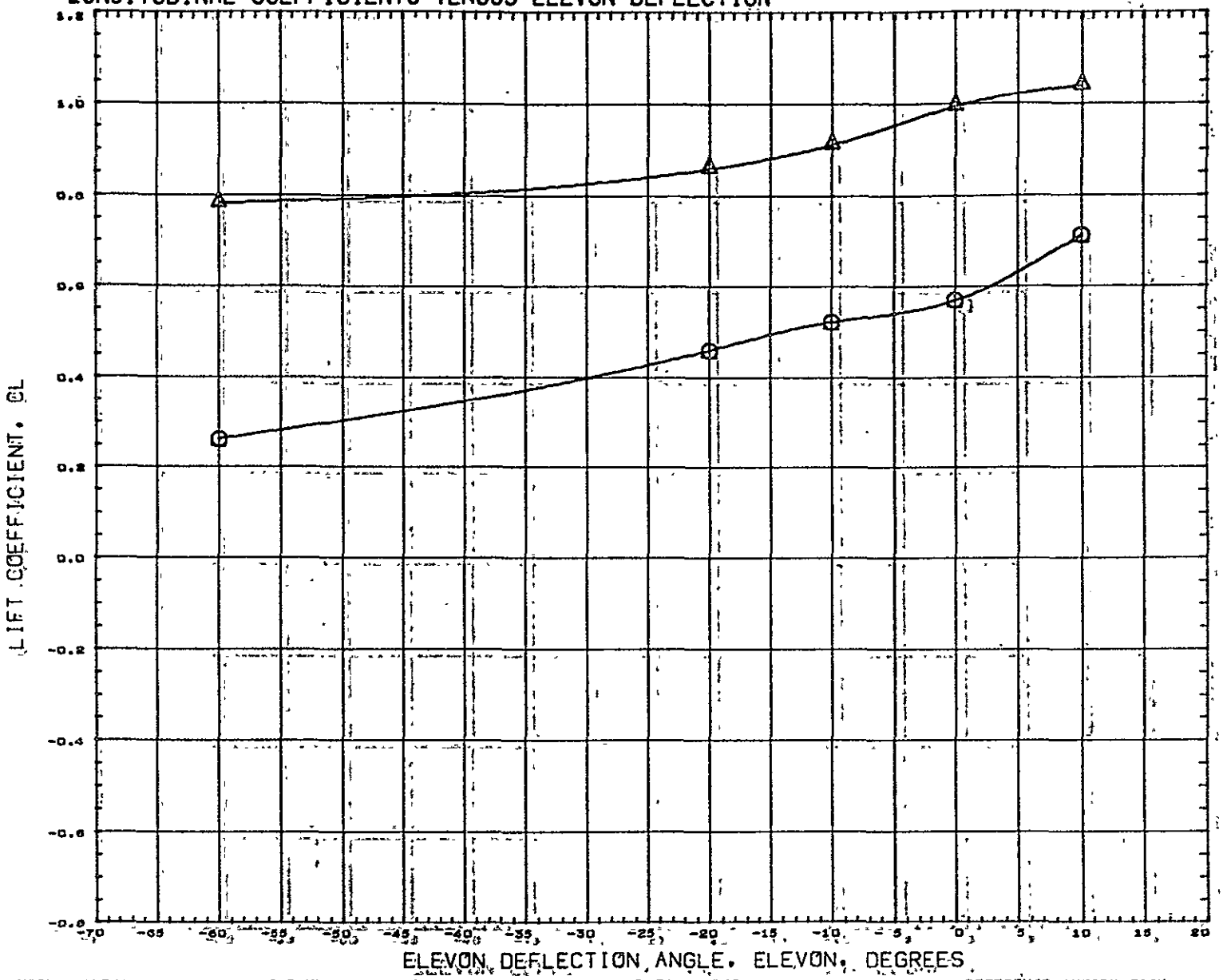
PARAMETRIC VALUES			
MACH	0.950	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.000	BETA	0.000
DEL	-60.000	DER	-60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA SOURCE

DATASET	ELEVON
G28E74	-60.000
G28A01	-10.000
G28E77	10.000

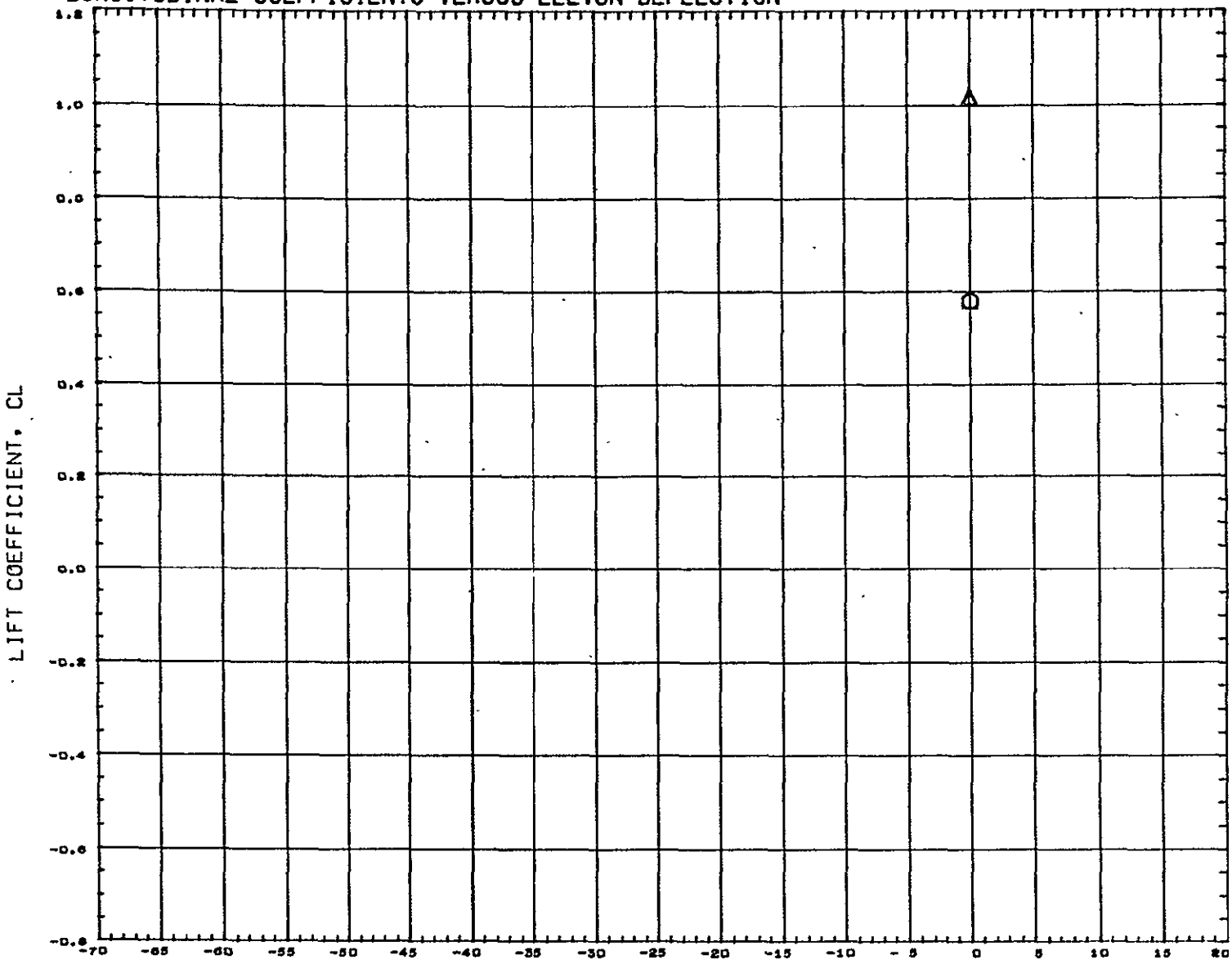
DATASET	ELEVON
G28E71	-20.000
G28B31	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0930	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST, CODE, MVR2E1,

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.050	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

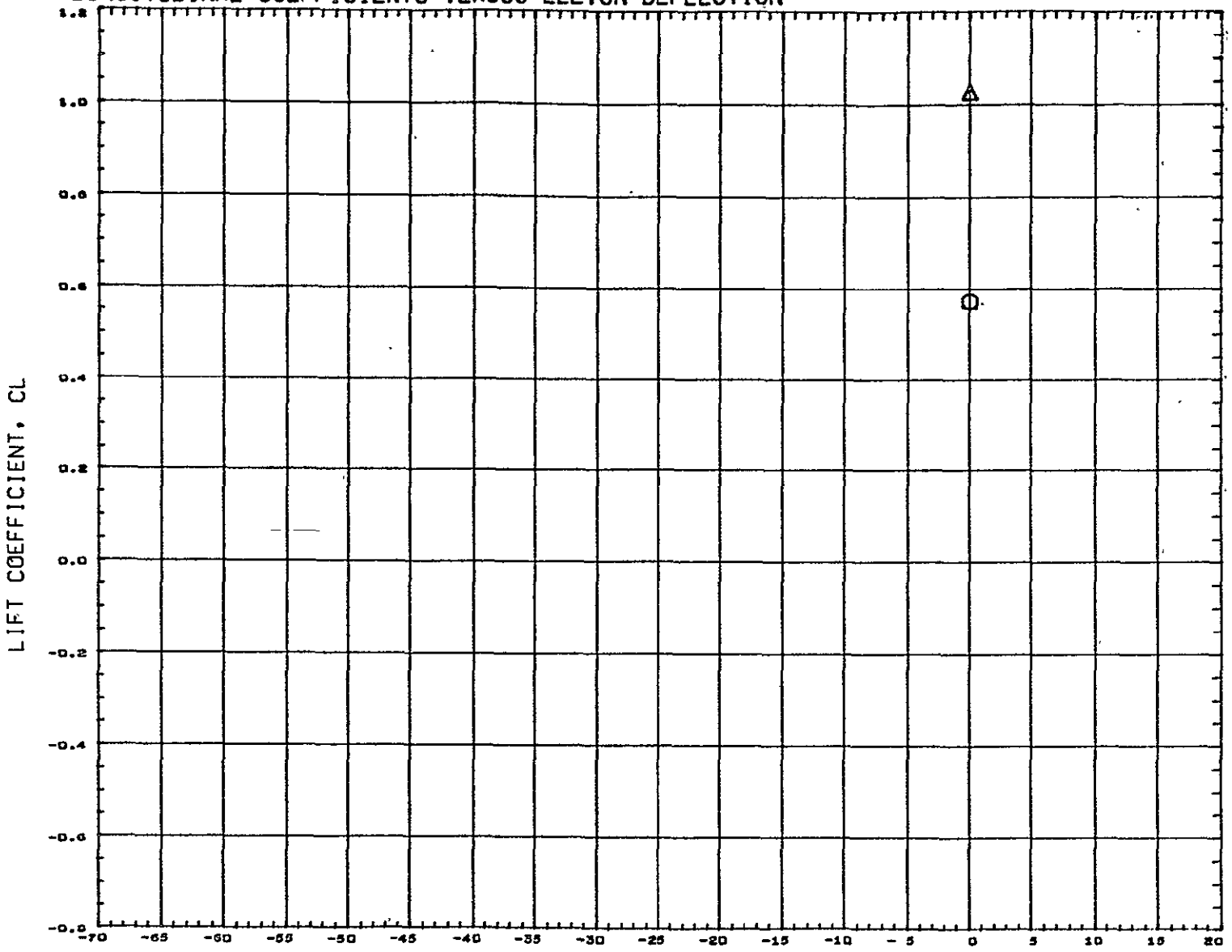
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



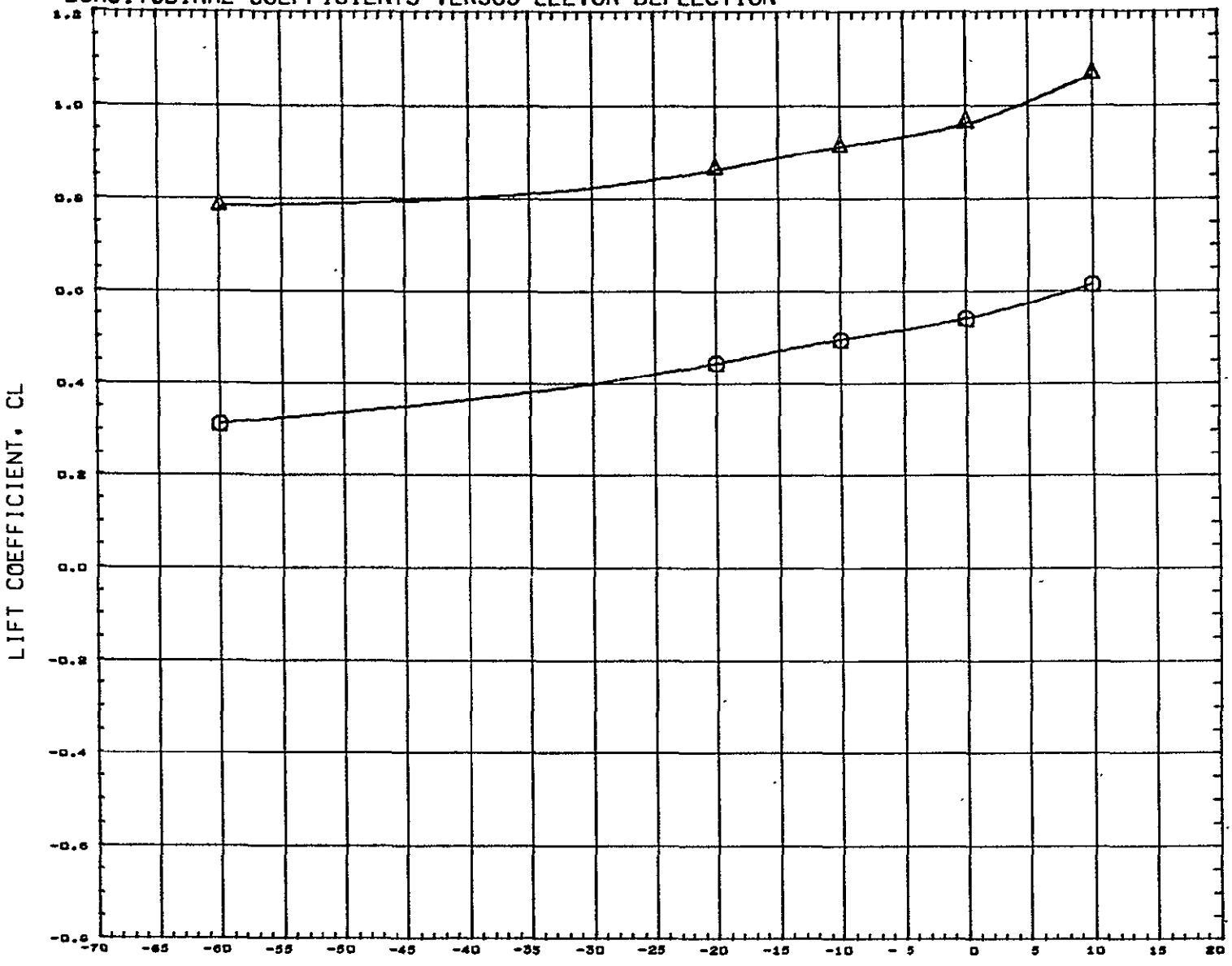
SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES			
MACH	1.100	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR6EI

DATA SOURCE				REFERENCE INFORMATION		
DATASET	ELEVON	DATASET	ELEVON	SREF	15.6560	SQ.IN.
G28E74	- 60.000	G28E71	- 20.000	LREF	3.0950	IN.
G28AD1	- 10.000	G28B31	0.000	BREF	6.0990	IN.
G28E77	10.000			XMRP	6.7100	IN.
				YMRP	0.0000	IN.
				ZMRP	0.0000	IN.
				SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E1

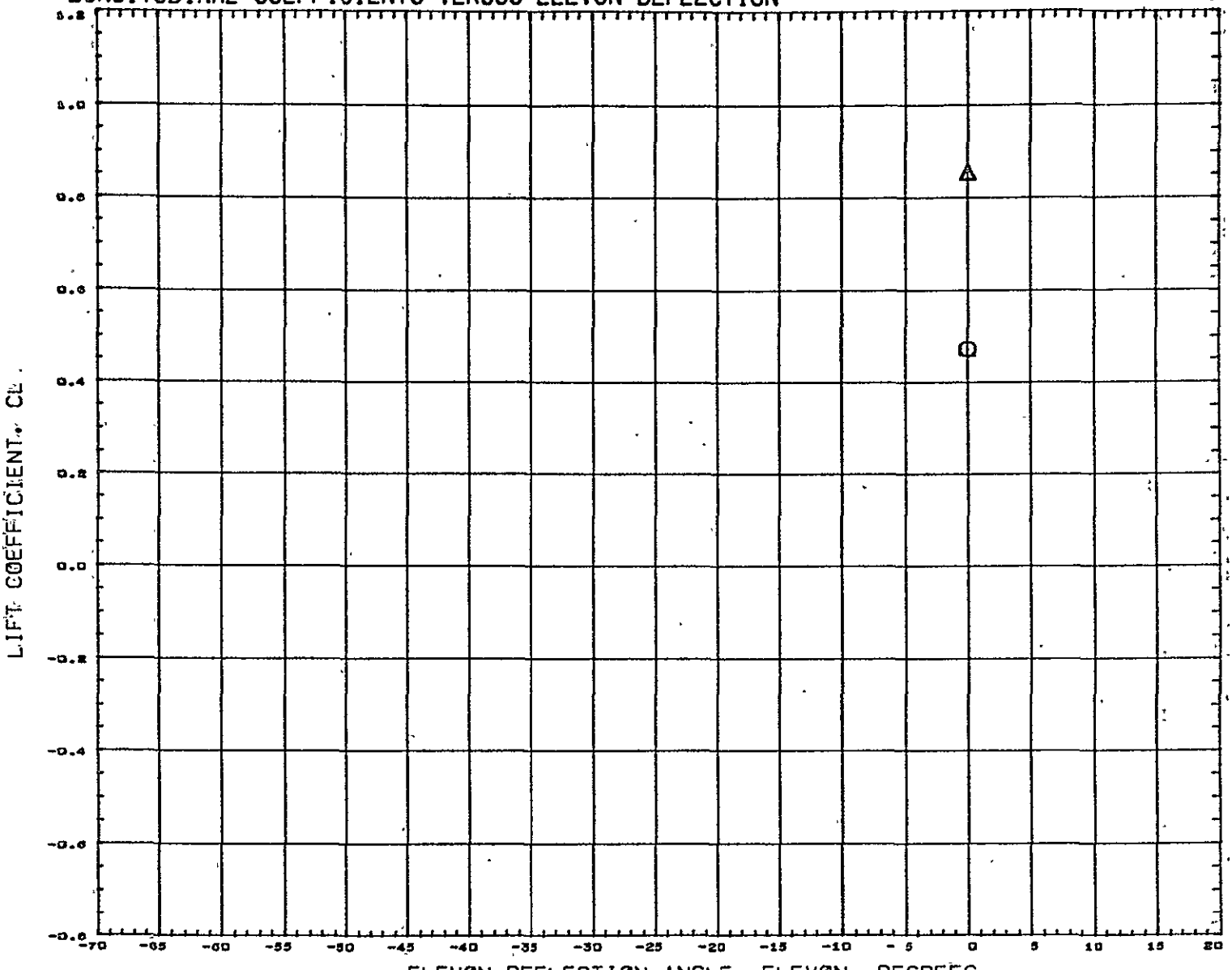
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.500	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

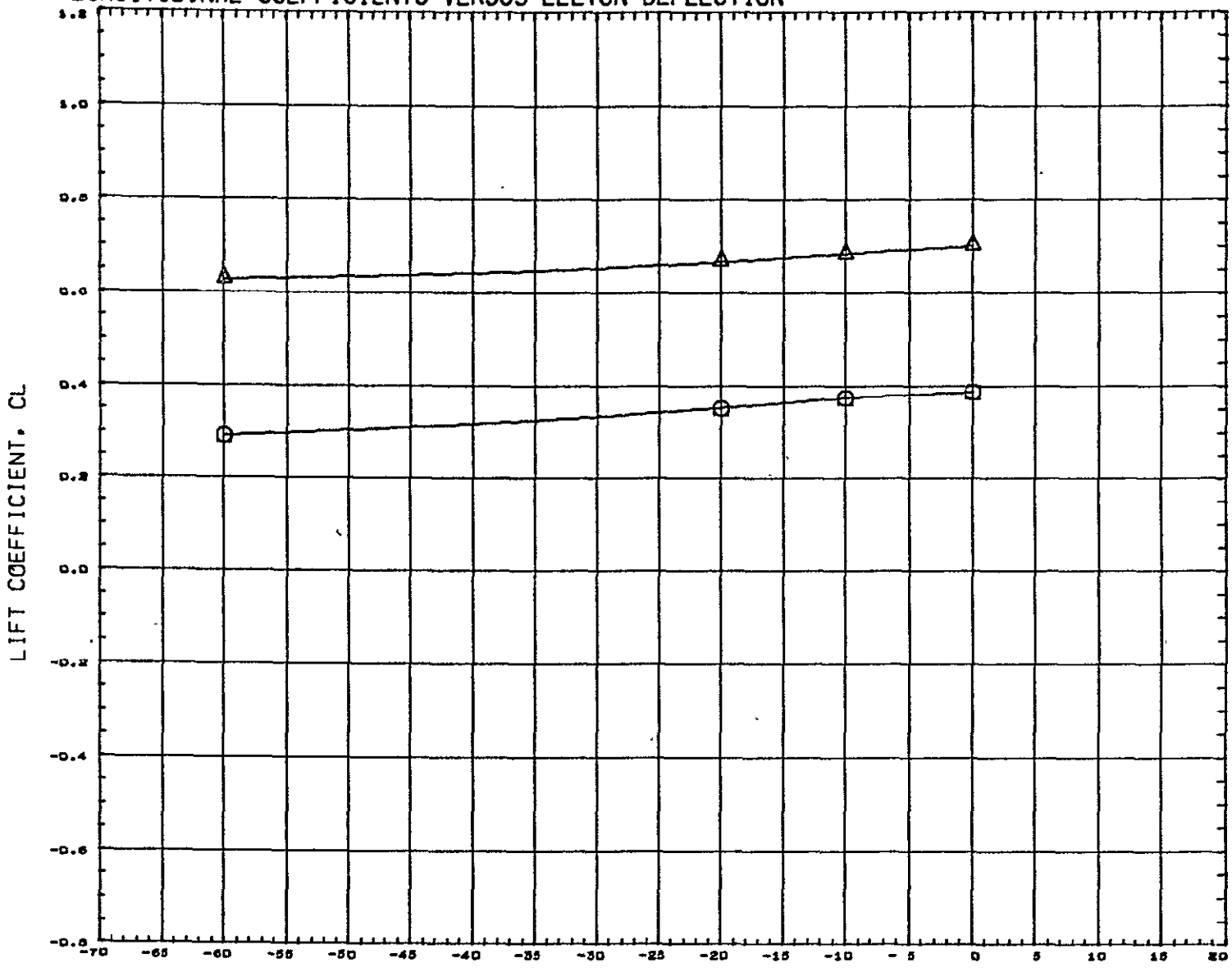
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

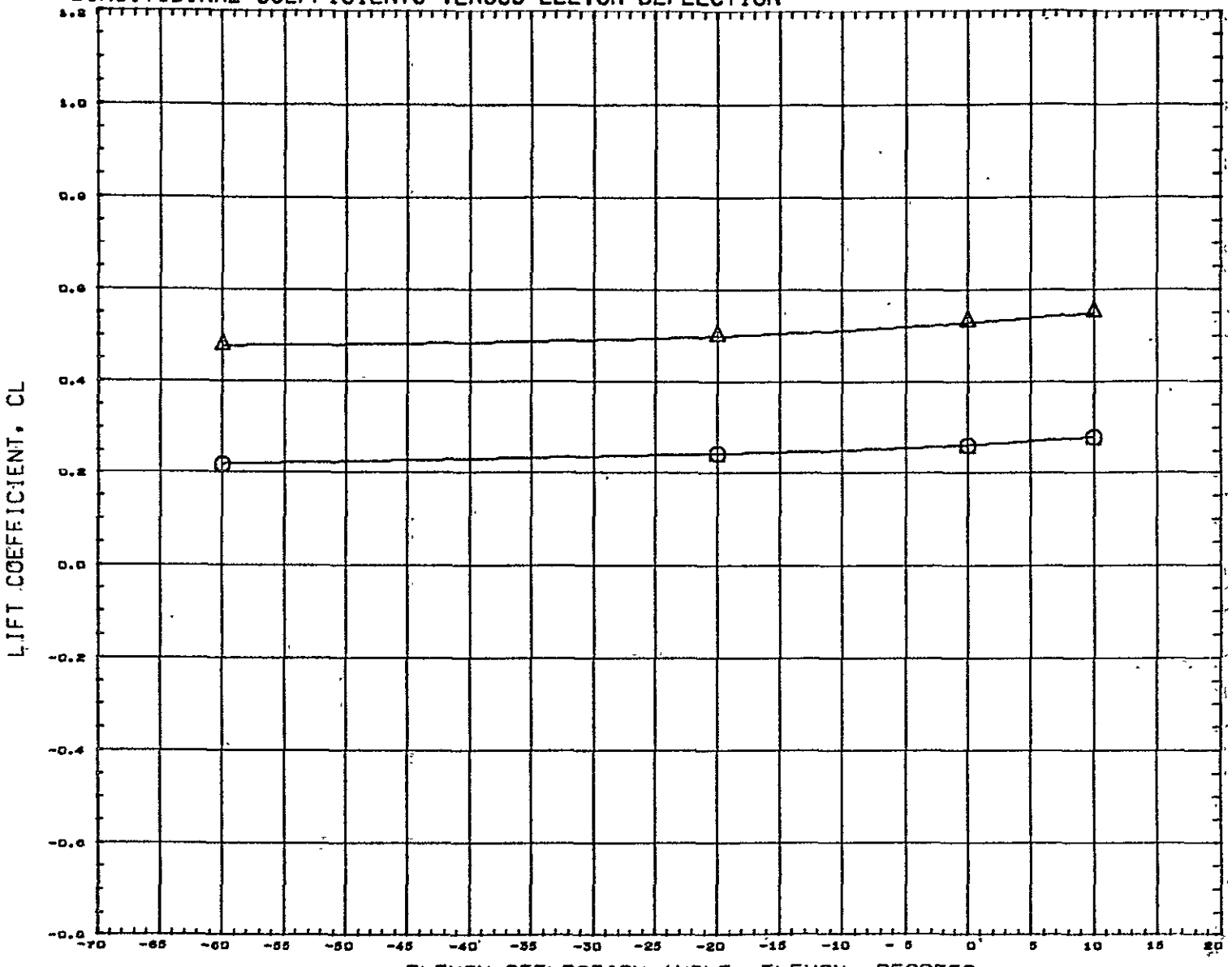
PARAMETRIC VALUES			
MACH	2.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

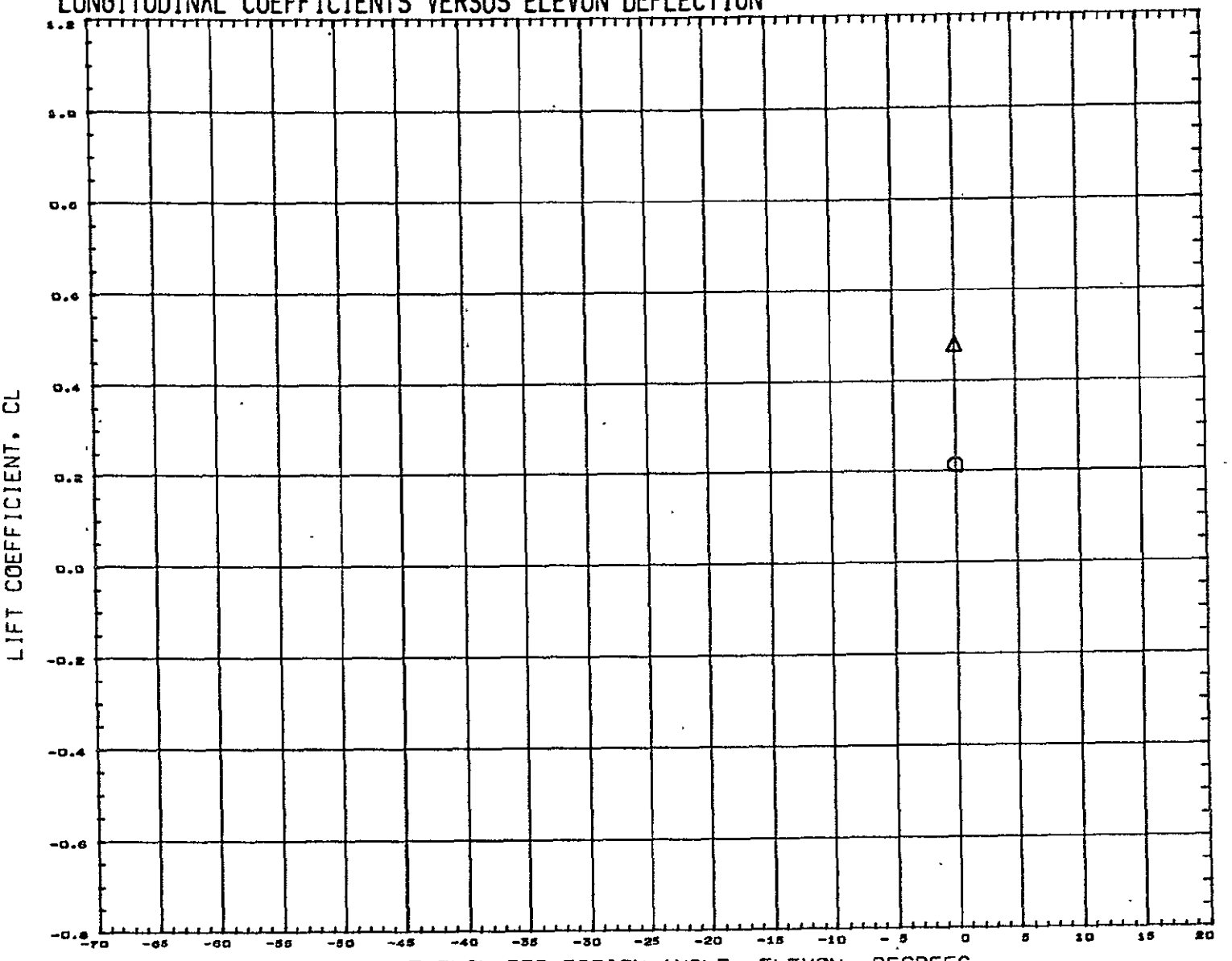
PARAMETRIC VALUES			
MACH	3.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

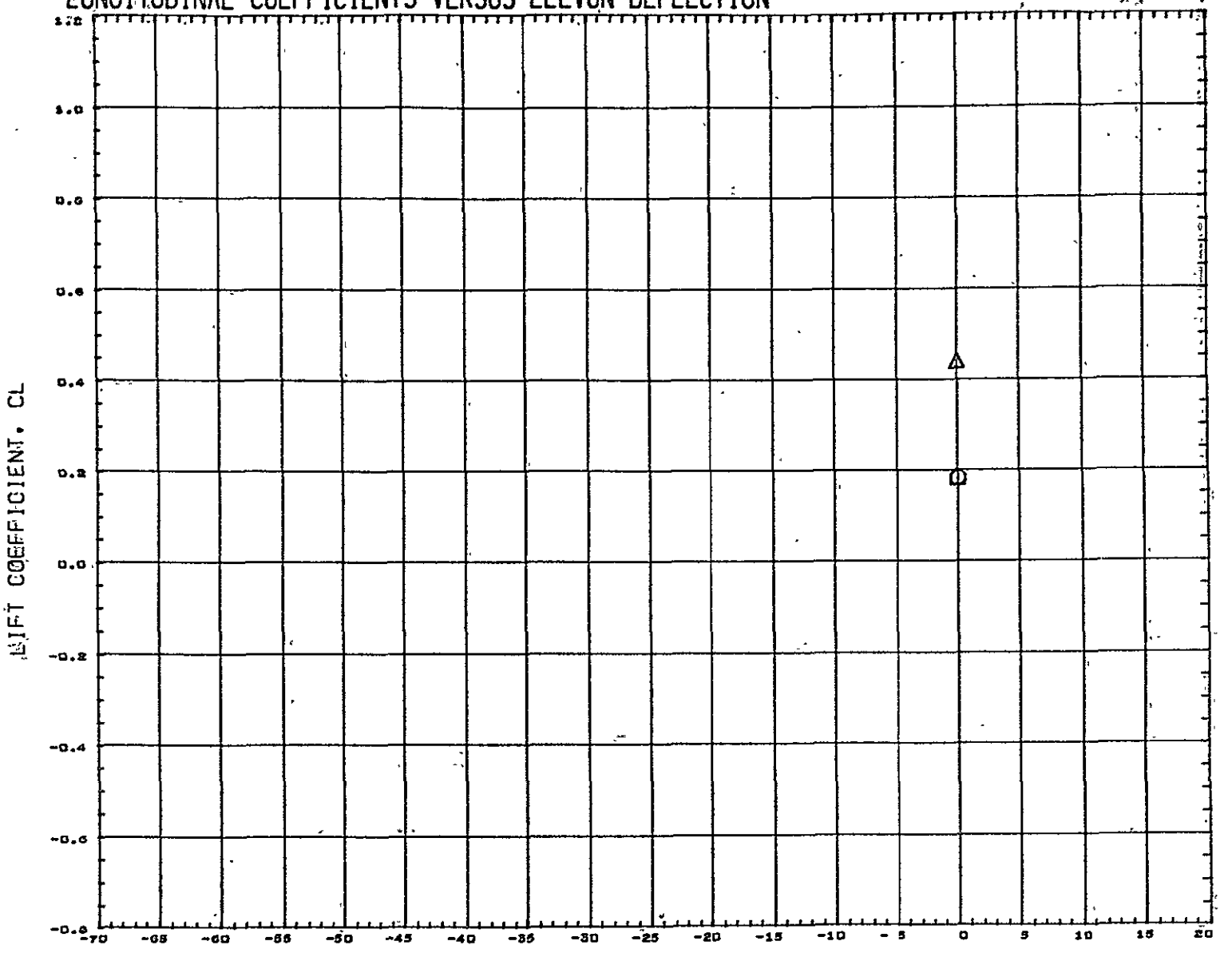
PARAMETRIC VALUES			
MACH	4.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28831	0.000
G28E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR▽CI

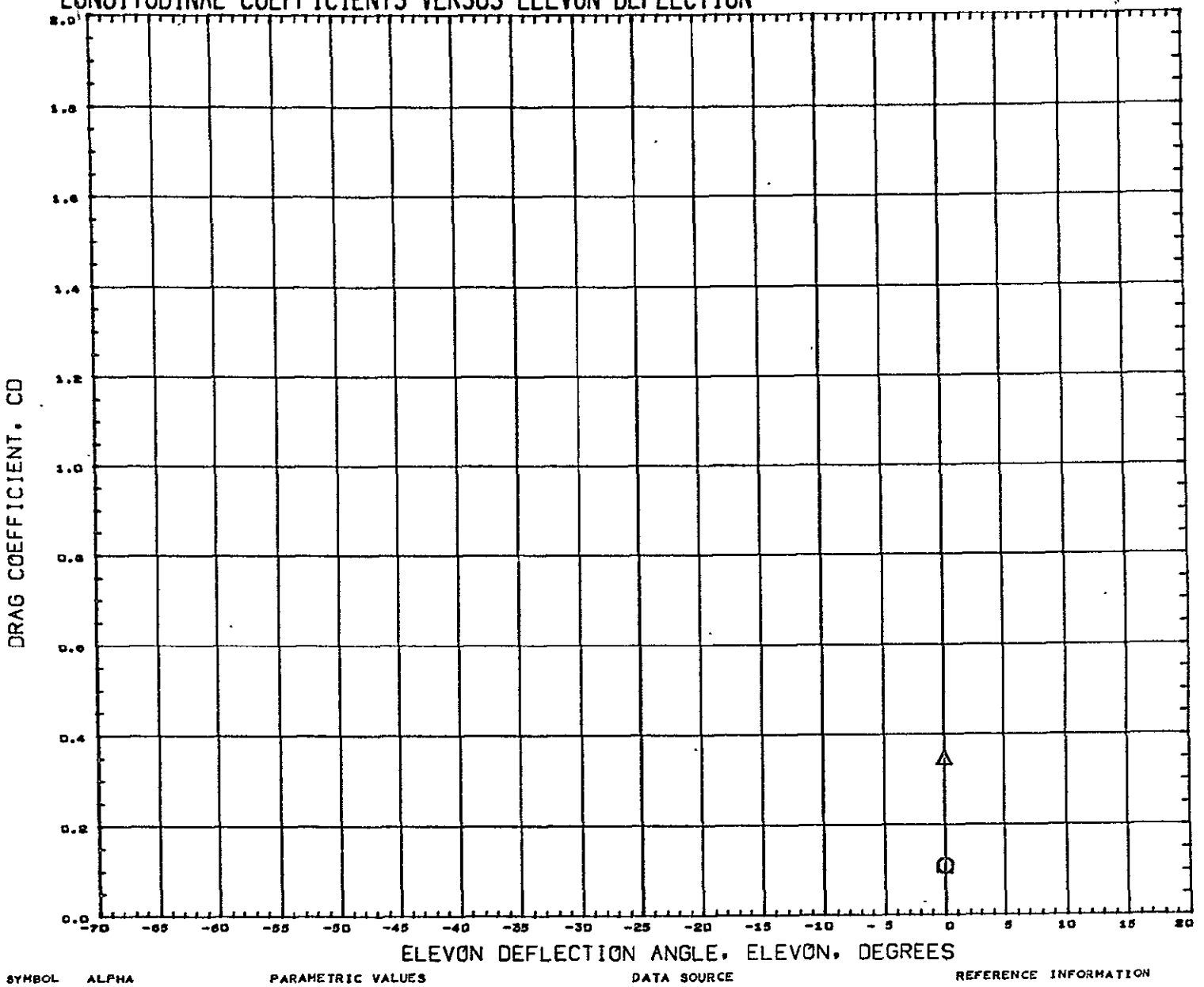
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28831	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ. IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
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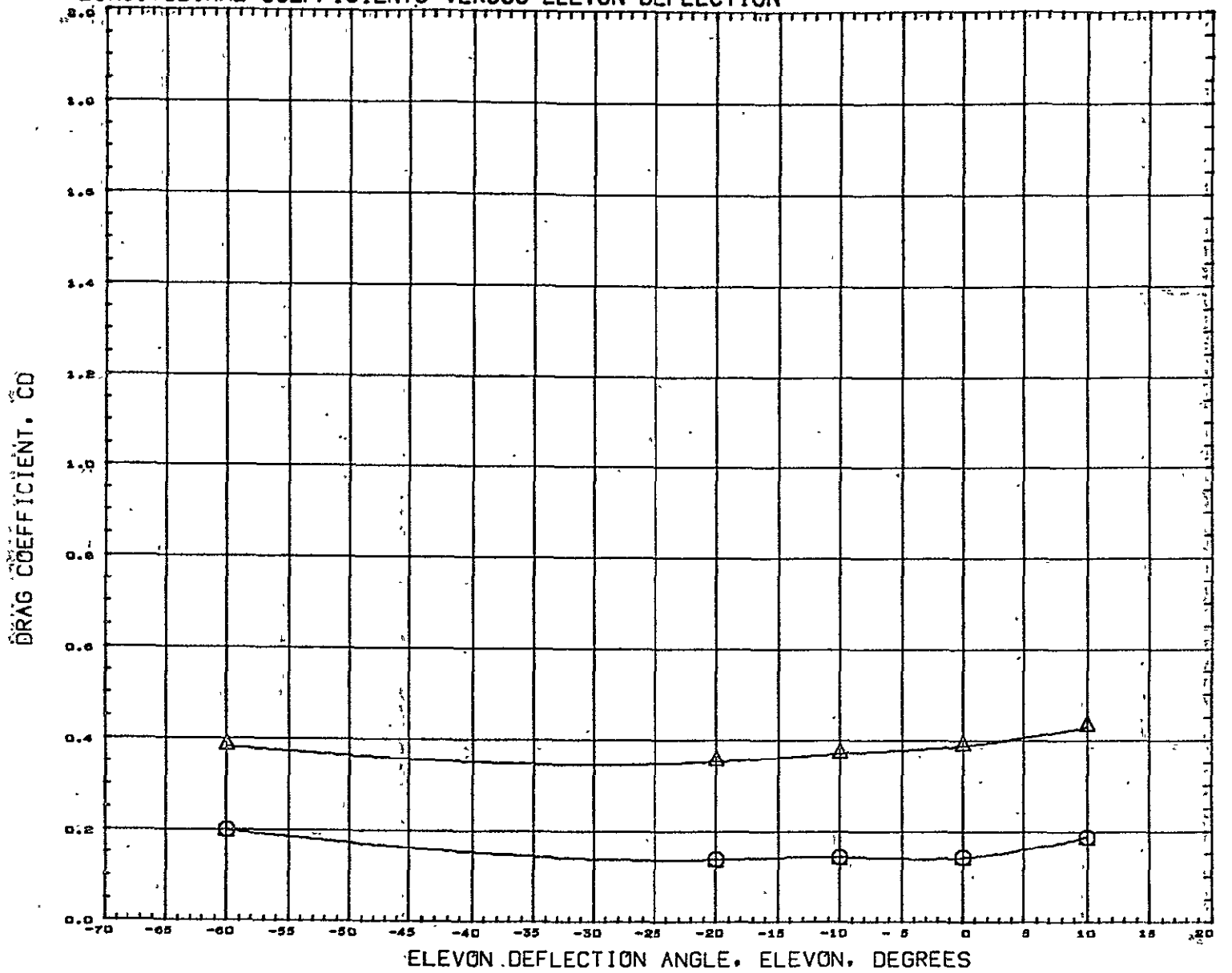
△	20.000	DEL	- 60.000	DER	- 60.000	G28E74	- 60.000	G28E71	- 20.000	LREF	3.0950	IN.
		DCL	0.000	DCR	0.000	G28A01	- 10.000	G28B31	0.000	BREF	6.0990	IN.
		CANARD	0.000	AILRON	0.000	G28E77	10.000			XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE MVR#E1

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
□	10.000
△	20.000

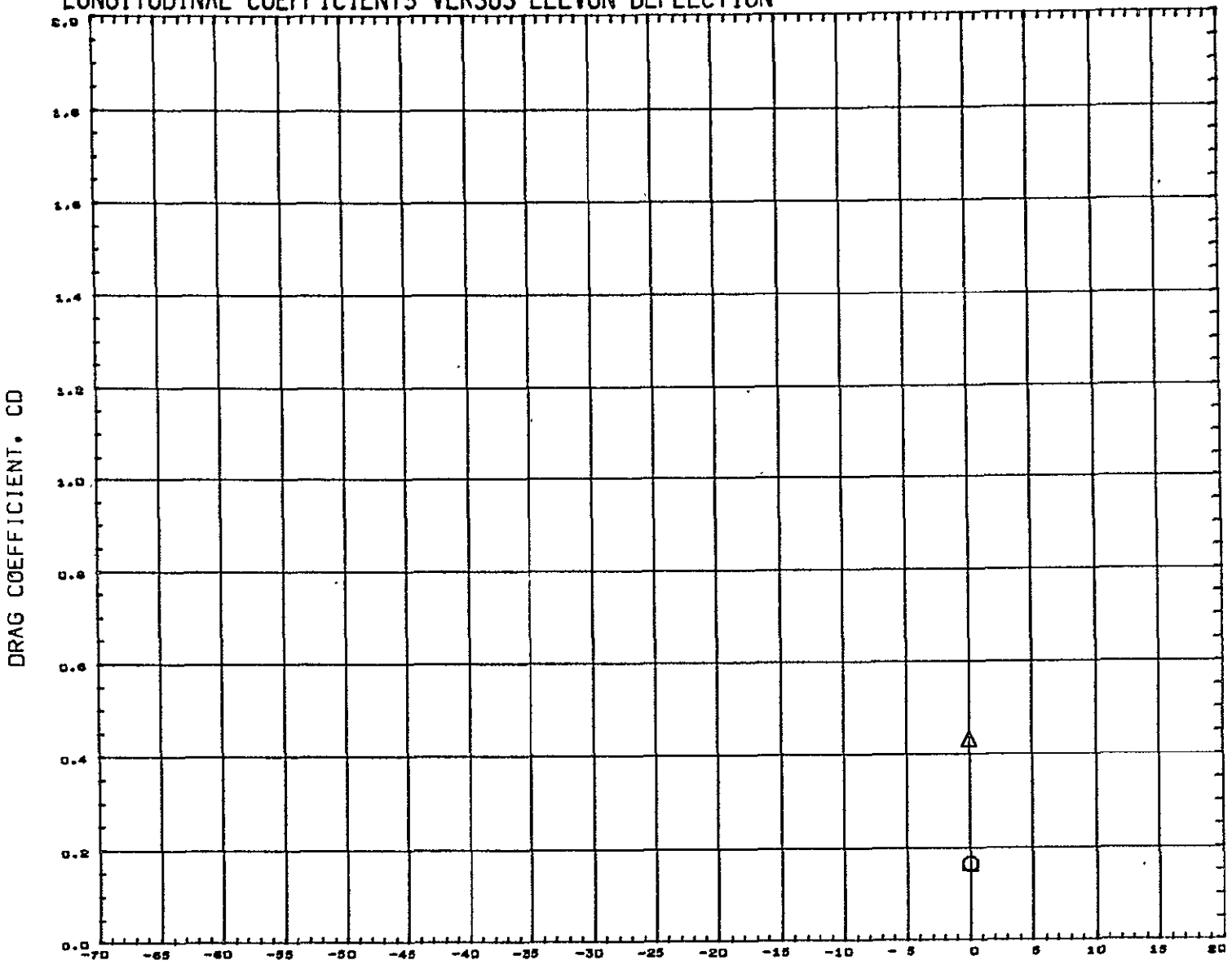
PARAMETRIC VALUES			
MACH	0.900	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILERON	0.000

DATA HIST. CODE MVR&EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.950	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

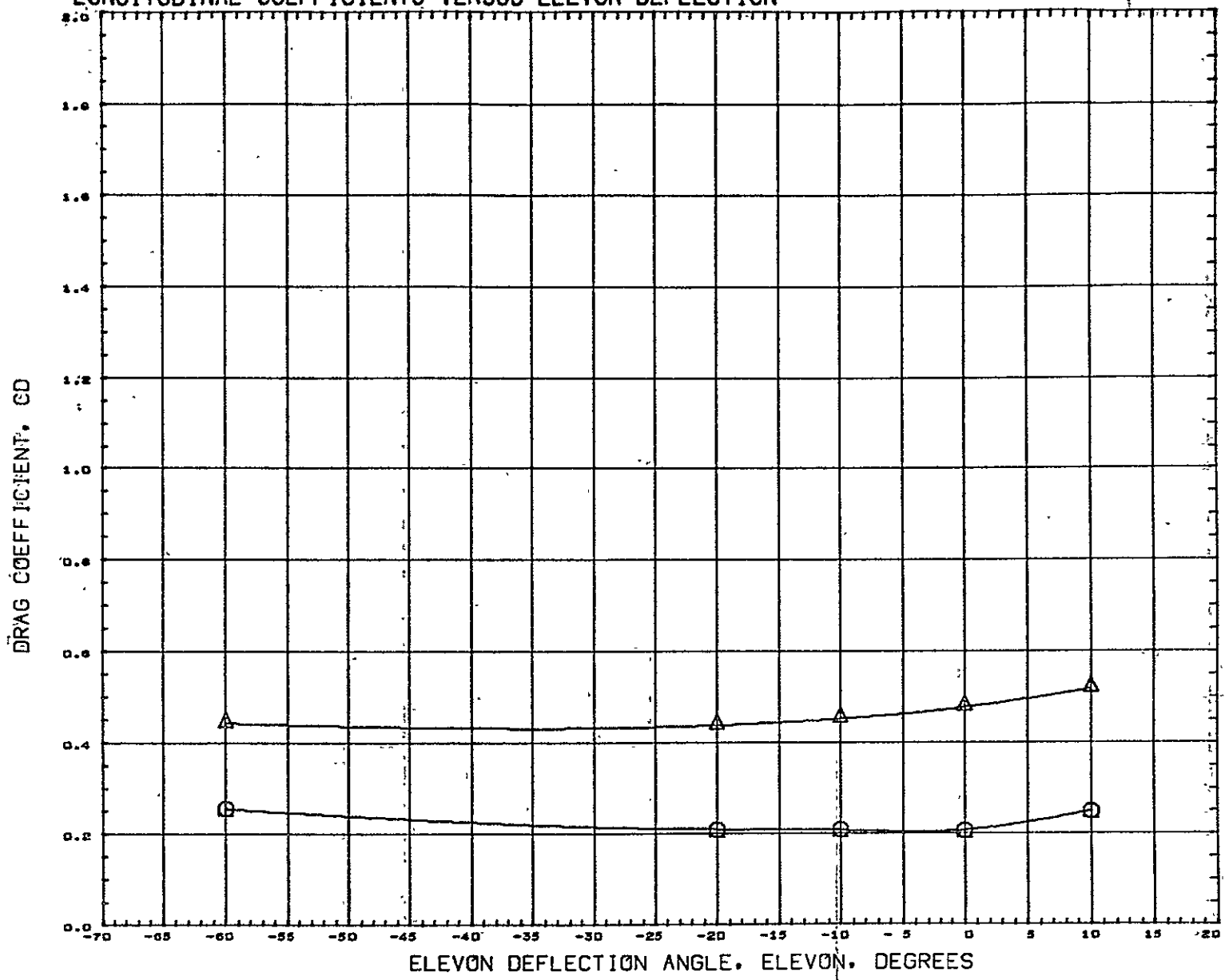
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE

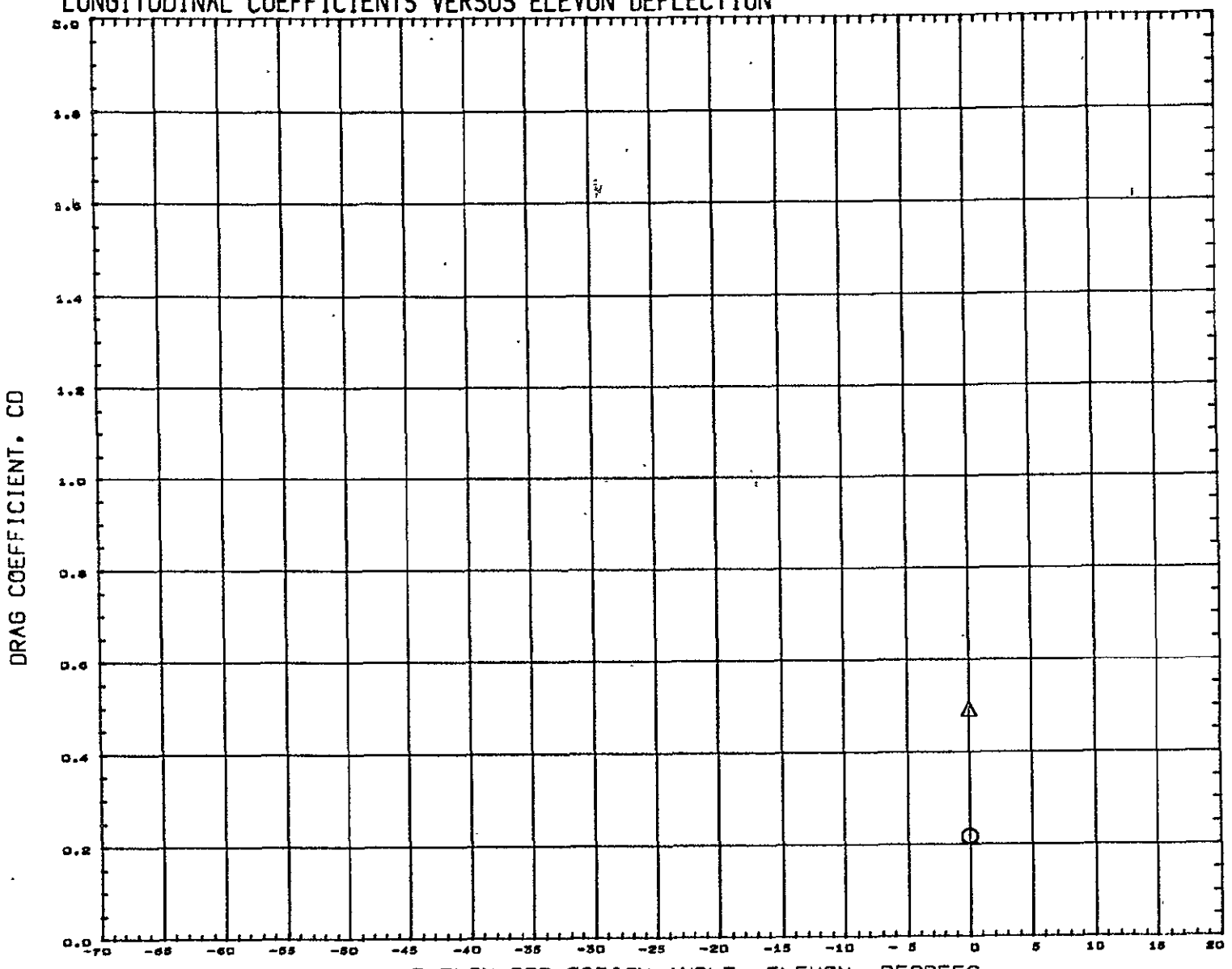
DATASET	ELEVON
G28E74	- 60.000
G28A01	- 10.000
G28E77	10.000

DATASET	ELEVON
G28E71	- 20.000
G28B31	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.050	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

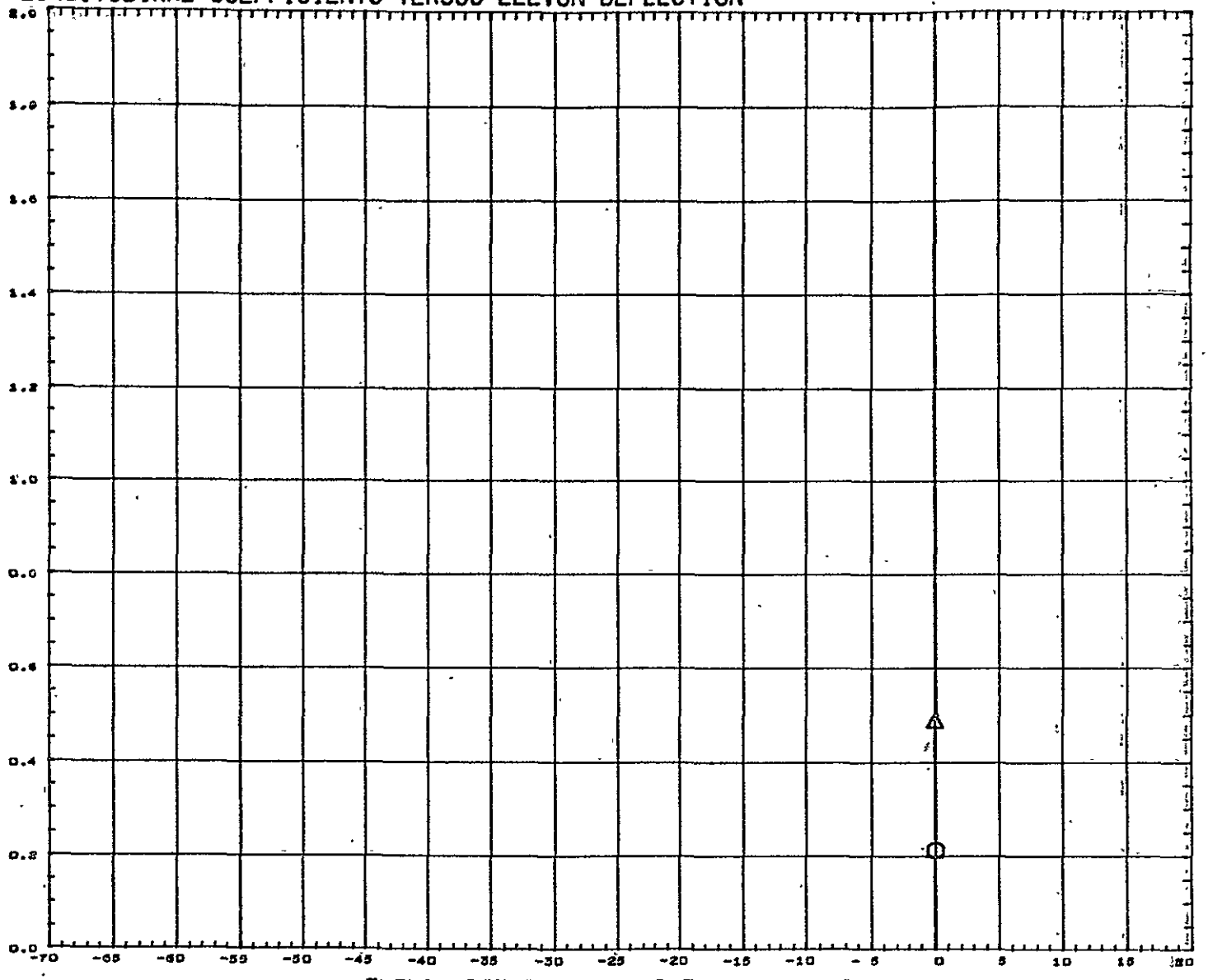
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.100	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR#EI

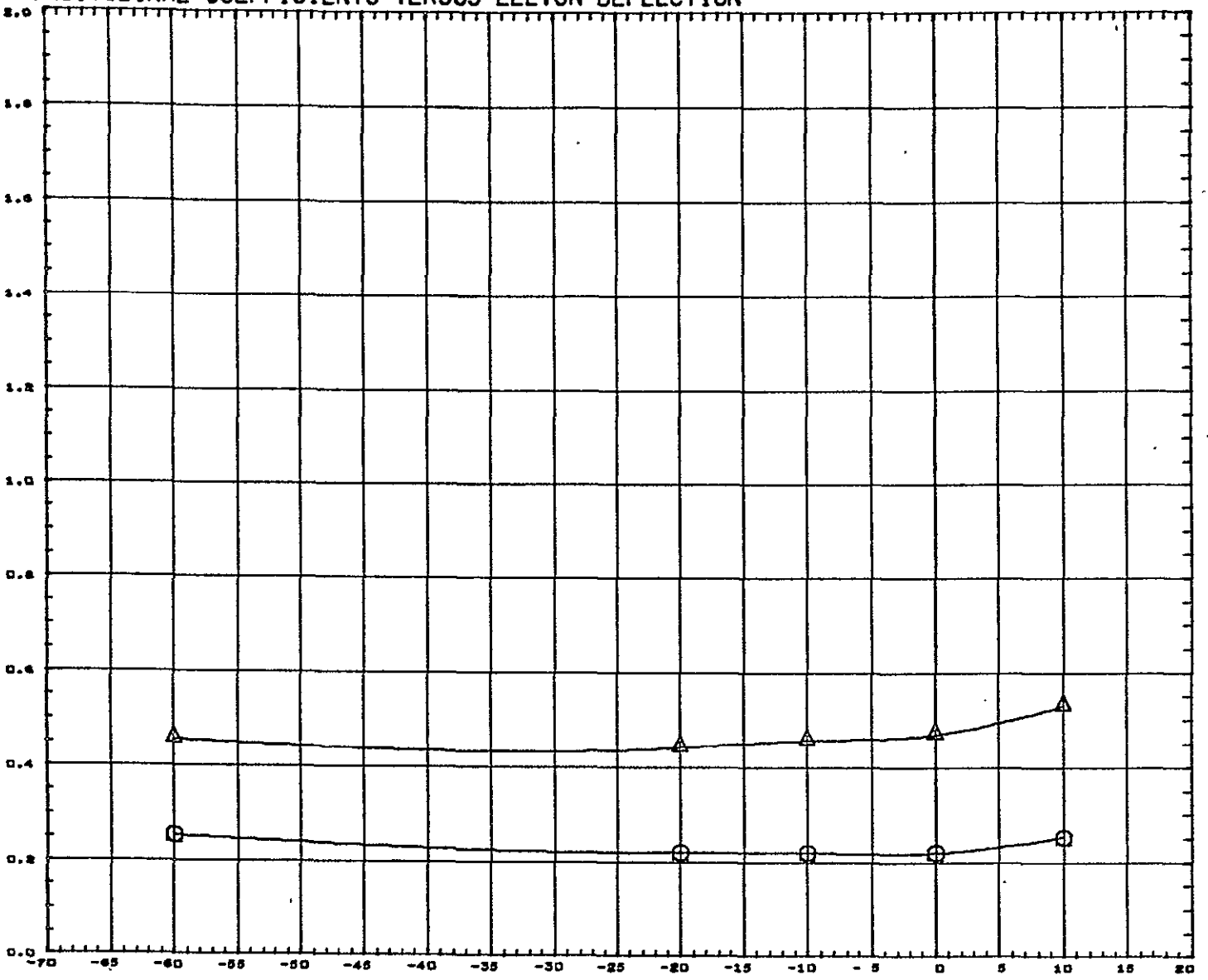
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

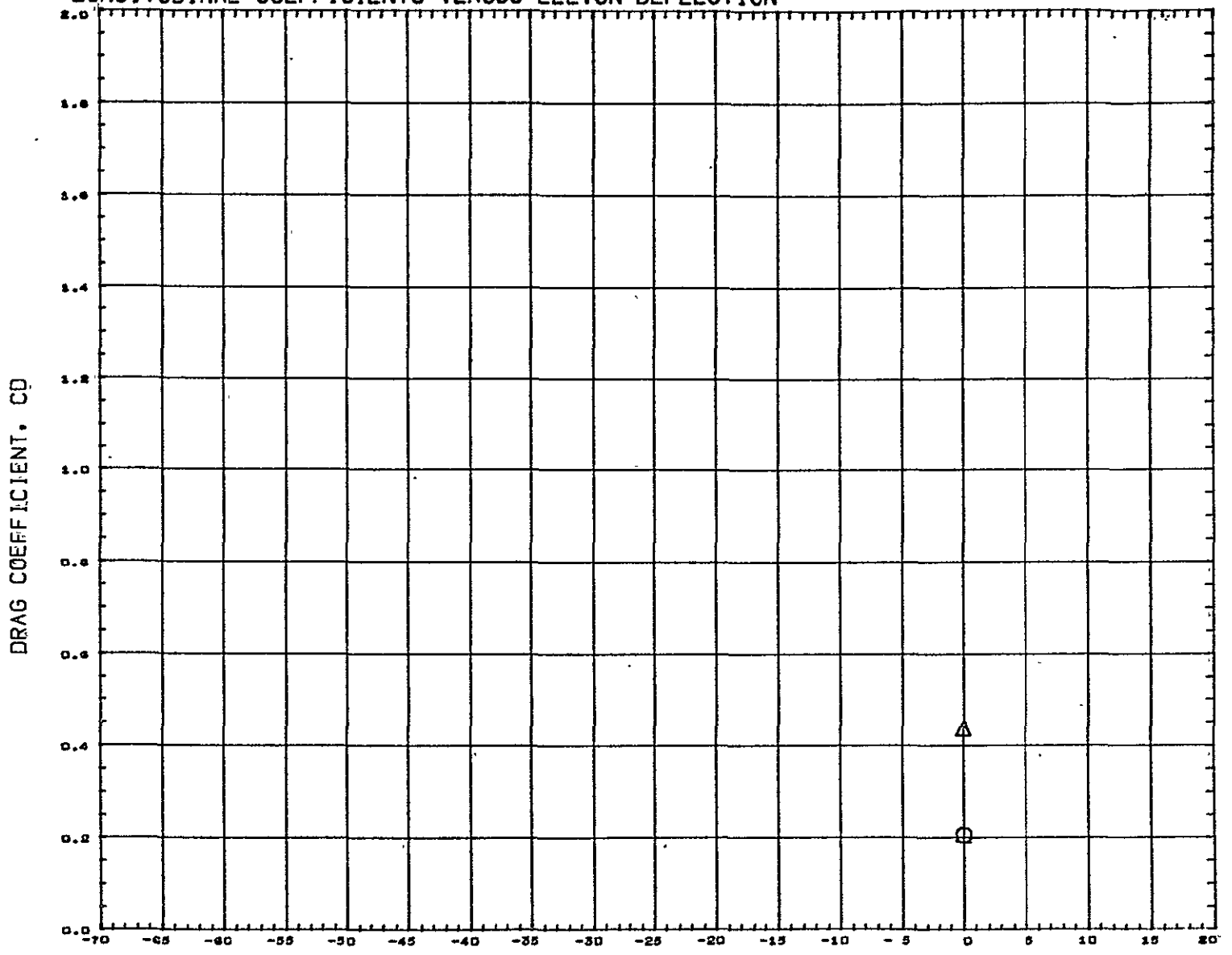
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G26E74	- 60.000	G26E71	- 20.000
G26A01	- 10.000	G26B31	0.000
G26E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.500	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

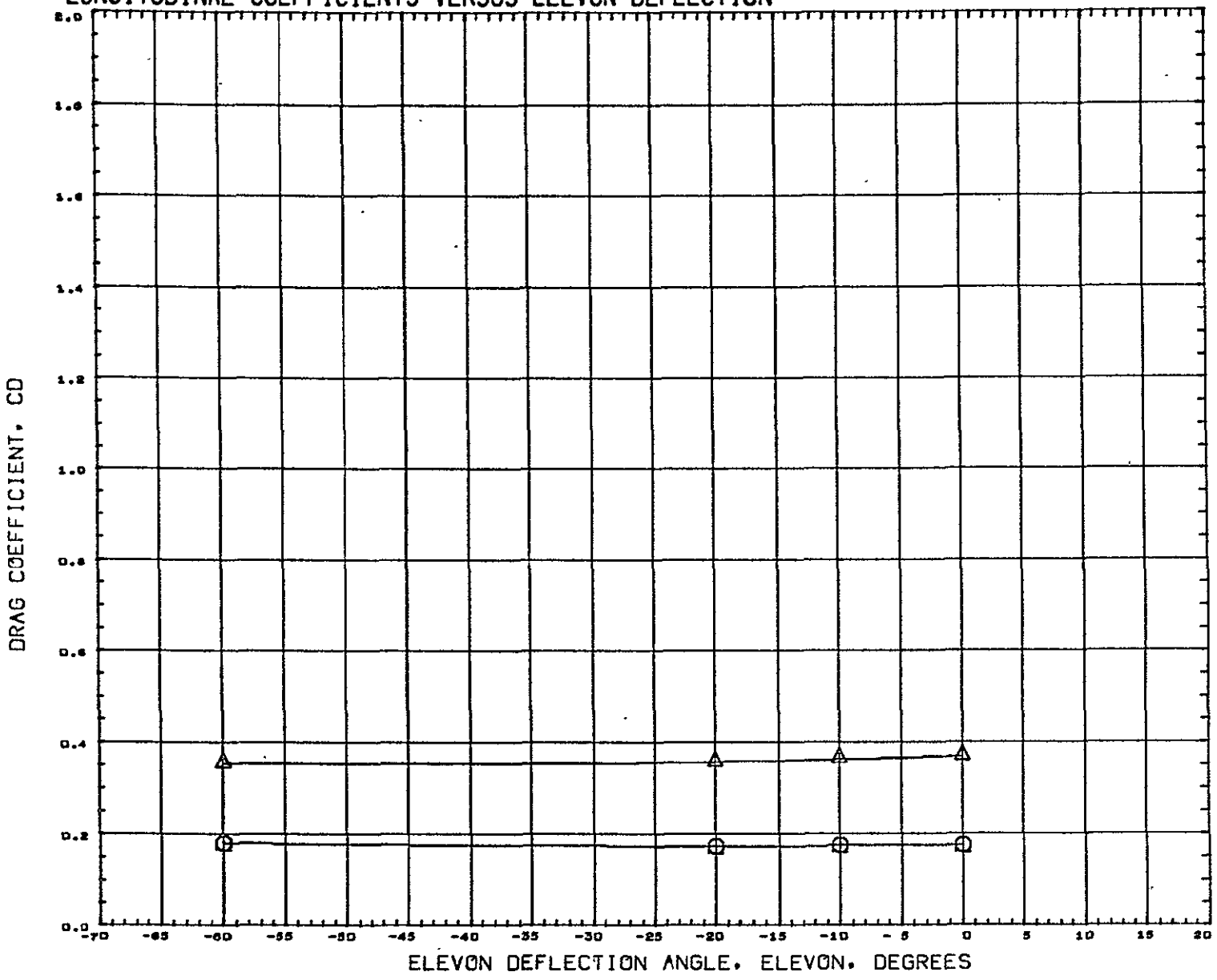
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28031	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

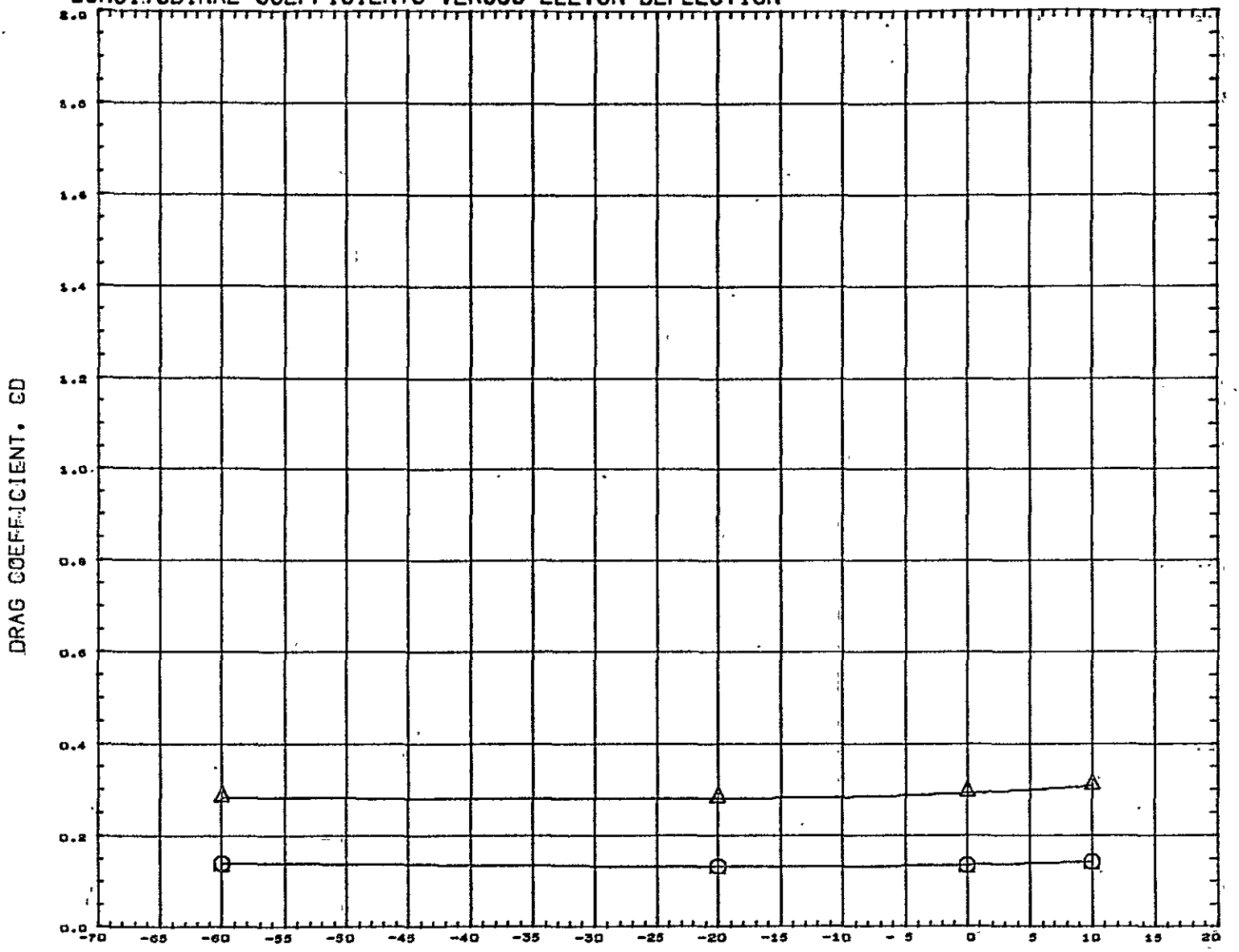
PARAMETRIC VALUES			
MACH	2.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E1

DATA SOURCE					
DATASET	ELEVON		DATASET	ELEVON	
G28E74	- 60.000		G28E71	- 20.000	
G28A01	- 10.000		G28B31	0.000	
G28E77	10.000				

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

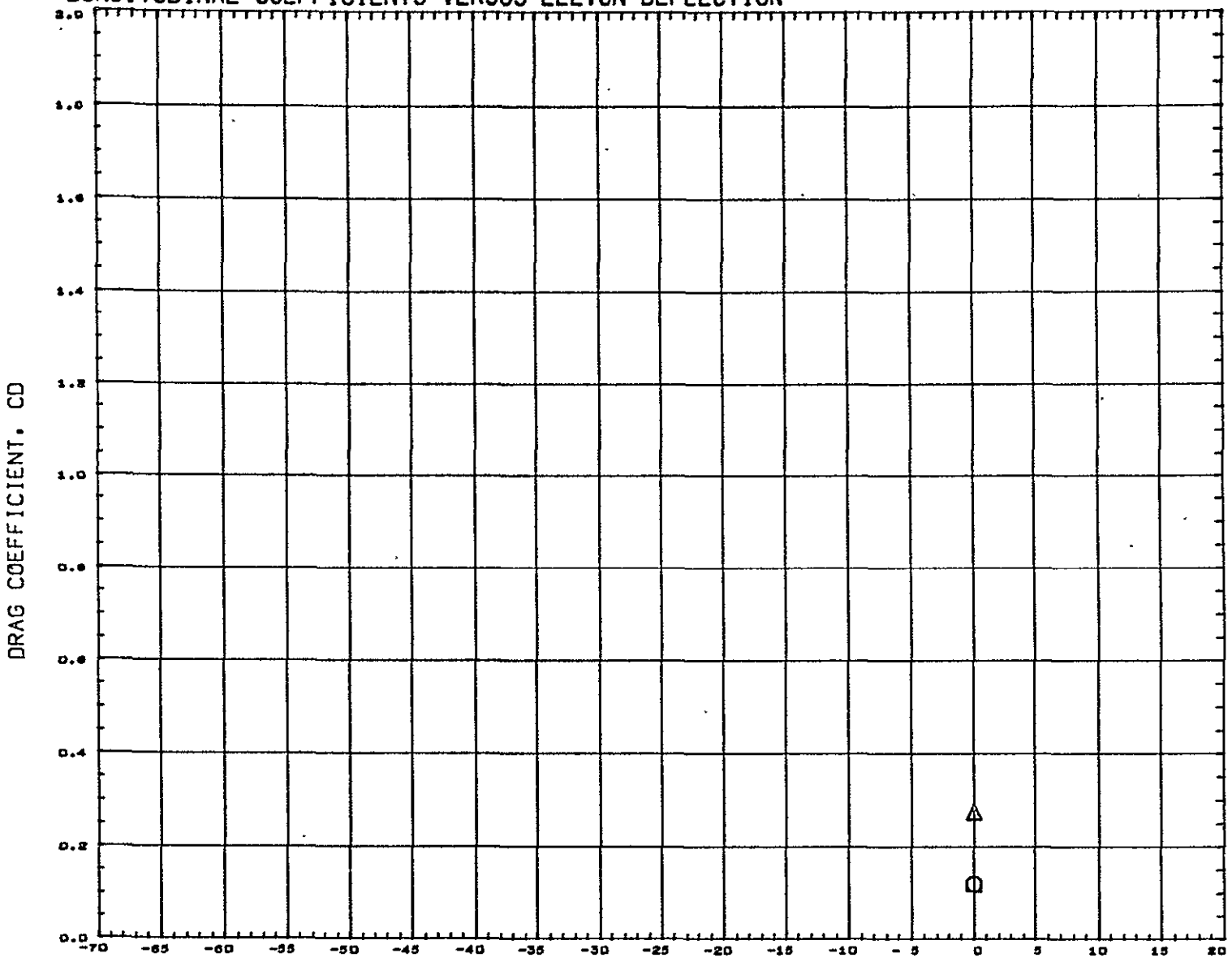
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E1

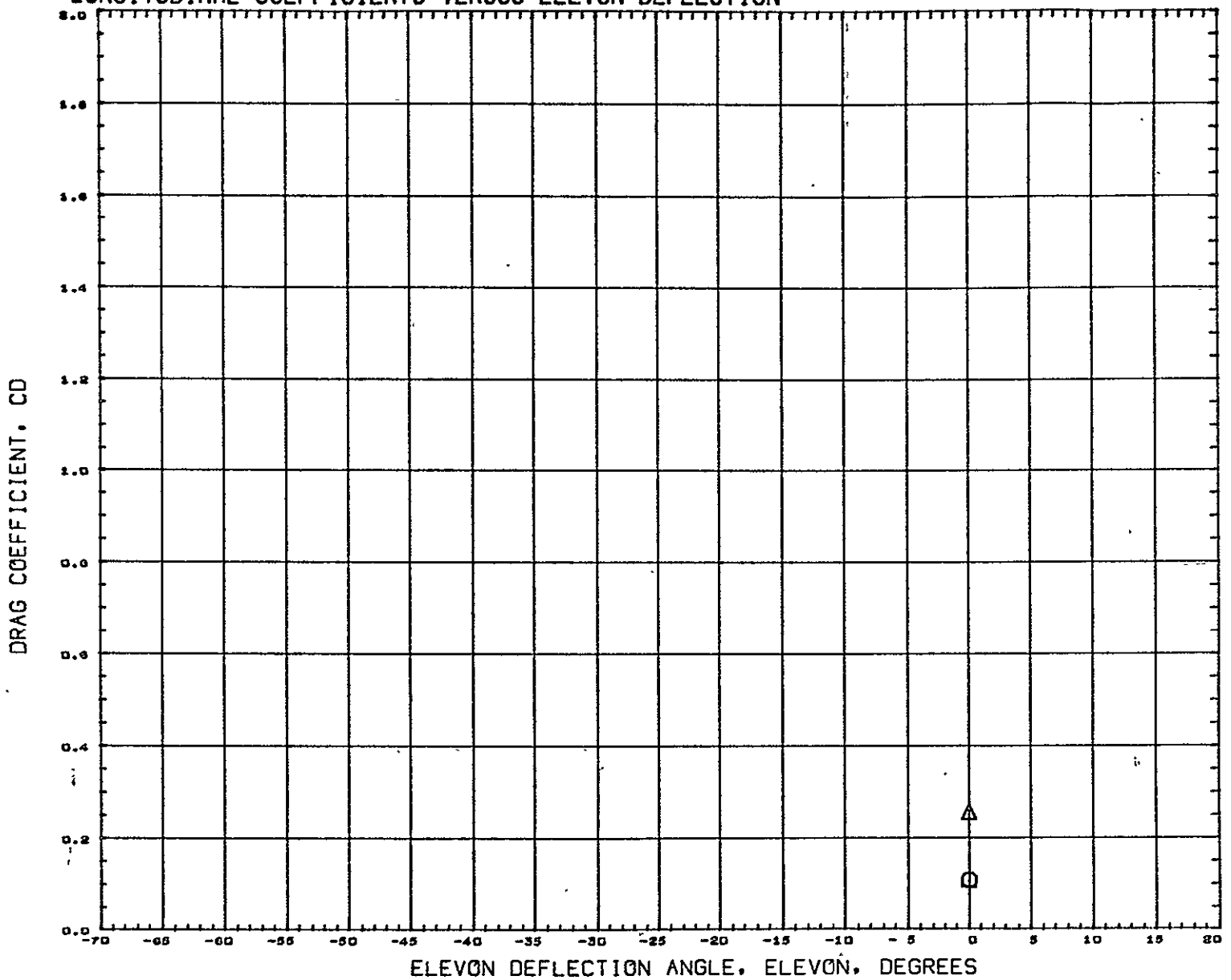
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

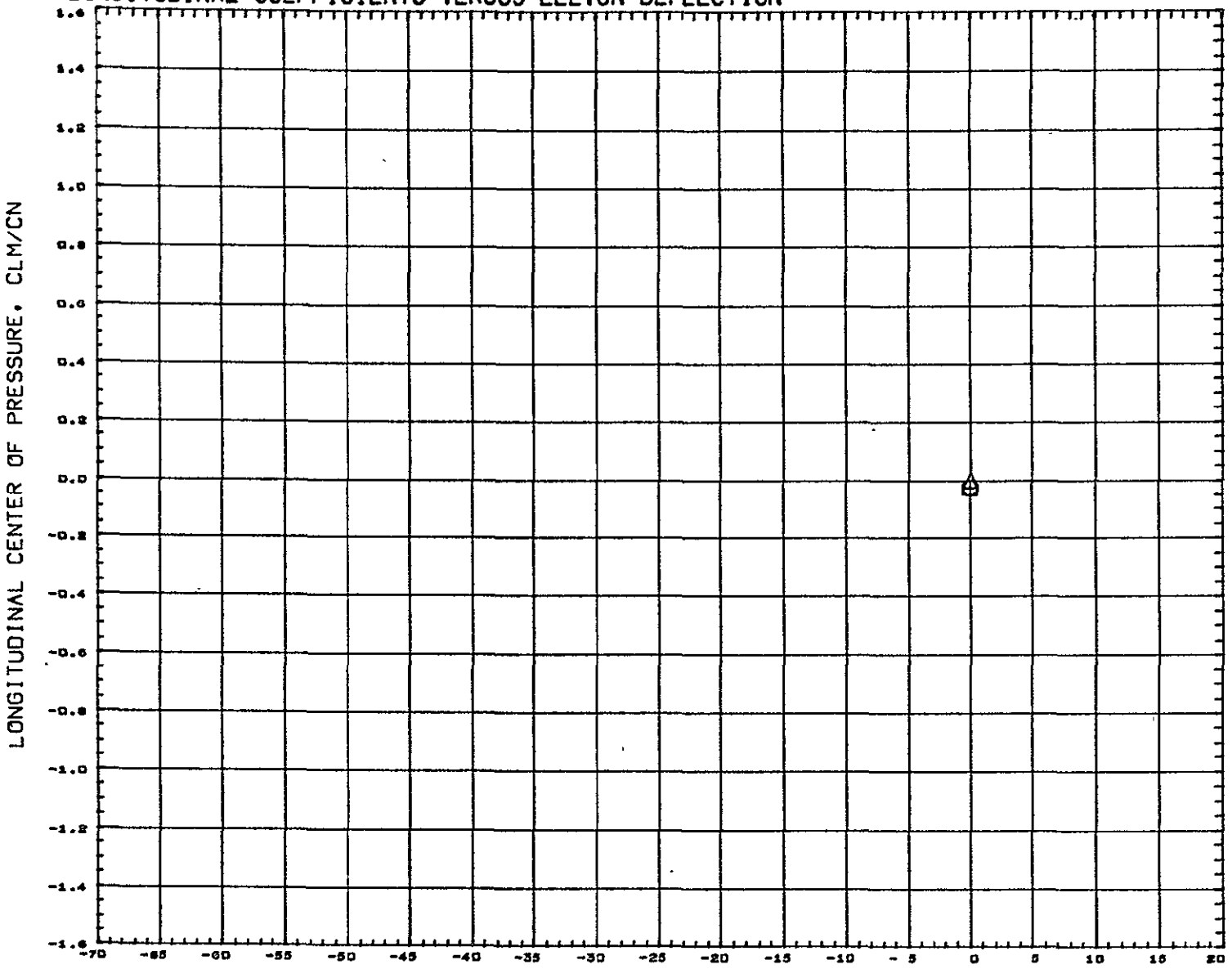
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28831	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.600	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION

SYMBOL	ALPHA
○	10.000
△	20.000

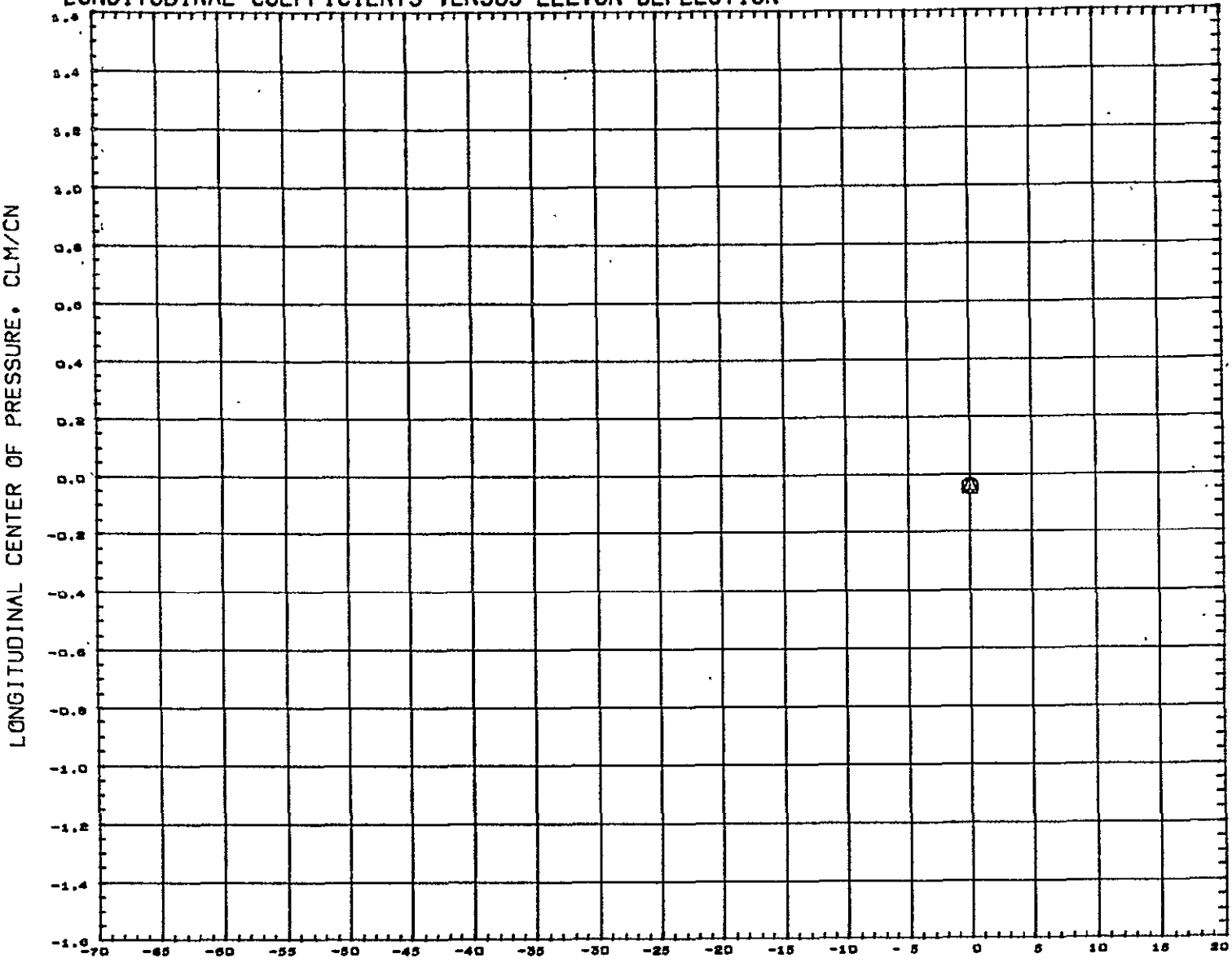
PARAMETRIC VALUES					
MACH	0.900	BETA	0.000		
DEL	- 60.000	DER	- 60.000		
DCL	0.000	DCR	0.000		
CANARD	0.000	AILRON	0.000		

DATA HIST. CODE HVR*EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.950	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

DATA SOURCE

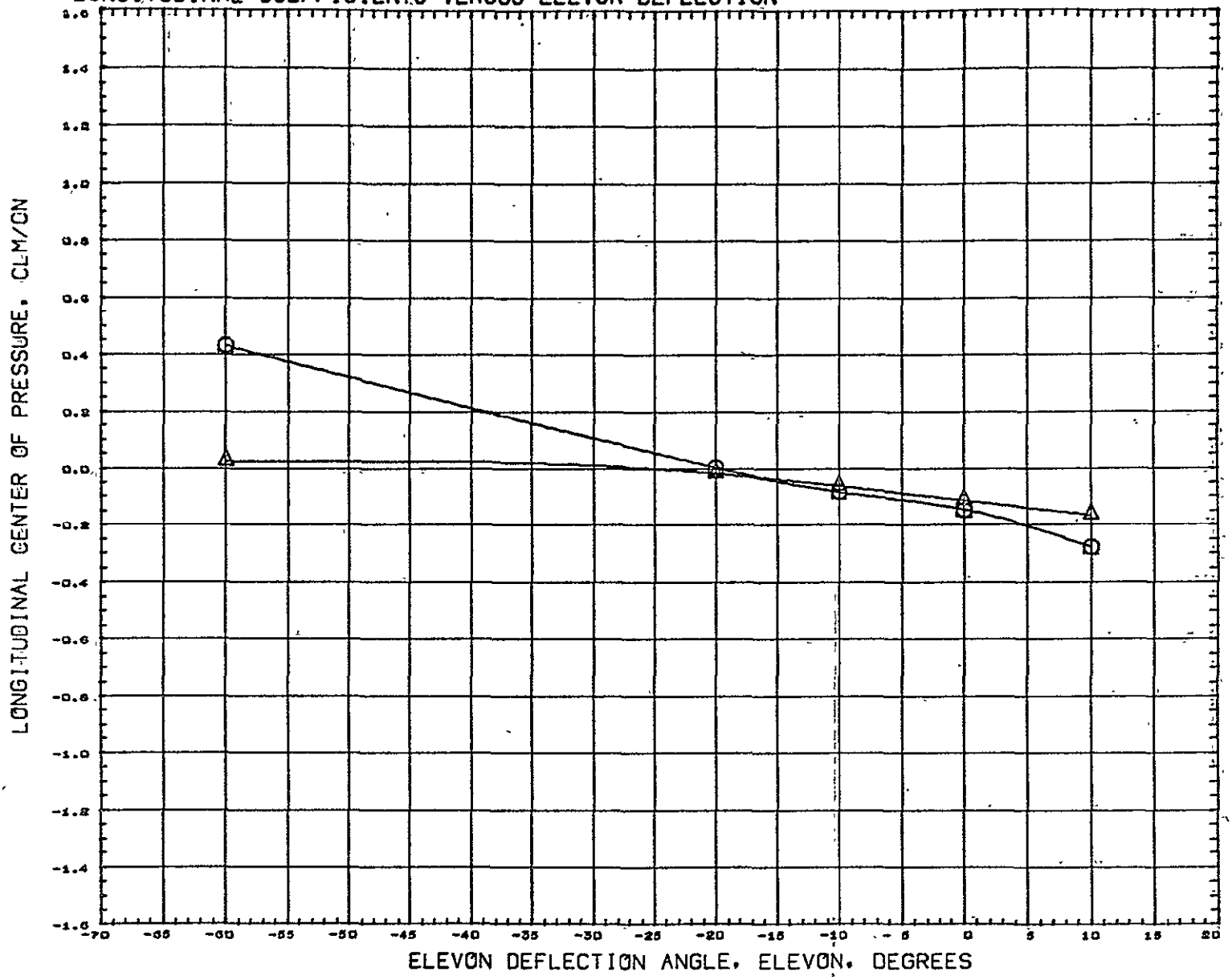
DATASET	ELEVON
G28E74	- 60.000
G28AD1	- 10.000
G28E77	10.000

DATASET	ELEVON
G28E71	- 20.000
G28B31	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE

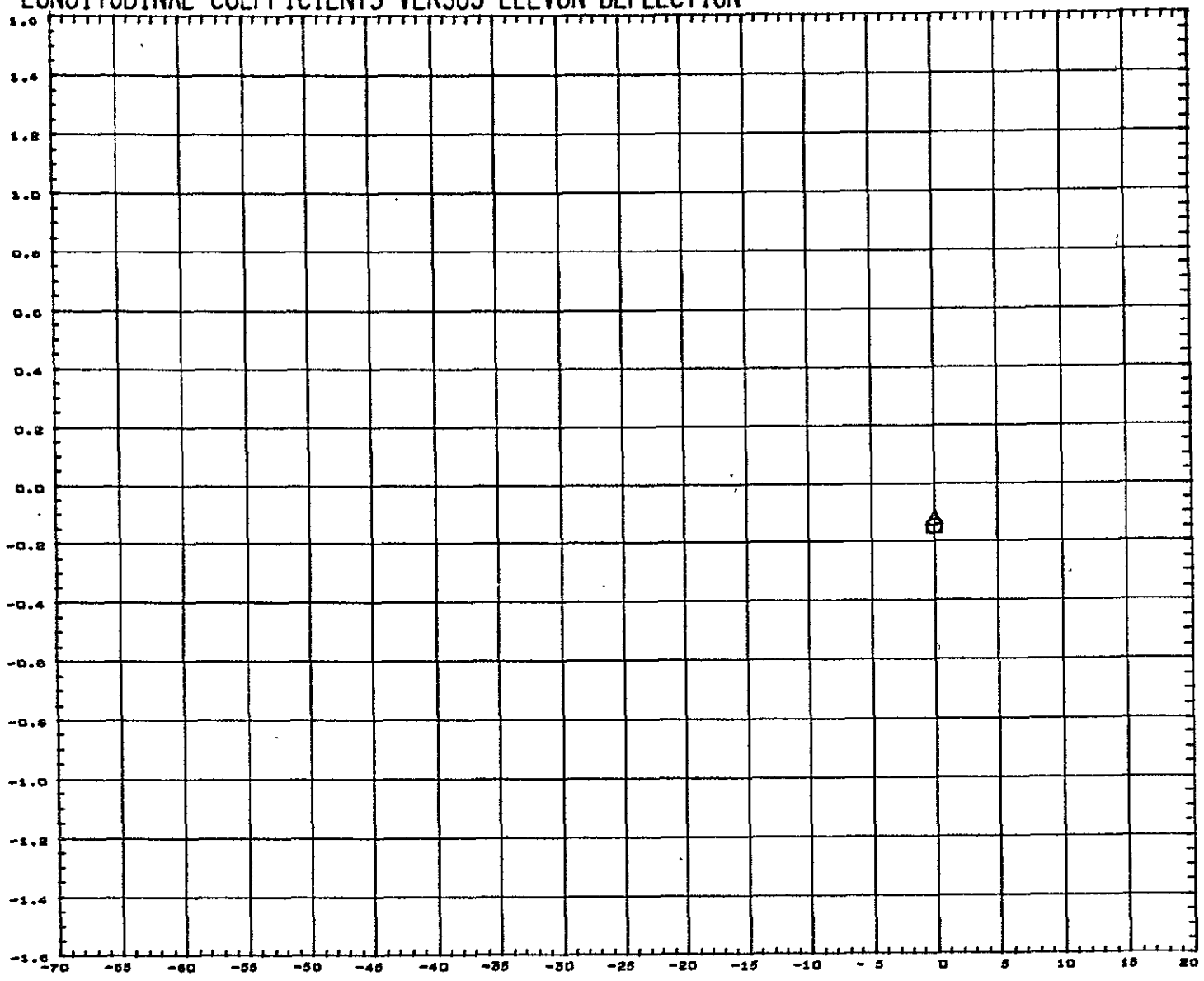
DATASET	ELEVON
G28E74	- 60.000
G28AD1	- 10.000
G28E77	10.000

DATASET	ELEVON
G28E71	- 20.000
G28B31	0.000

REFERENCE INFORMATION

SREF	15.6960	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



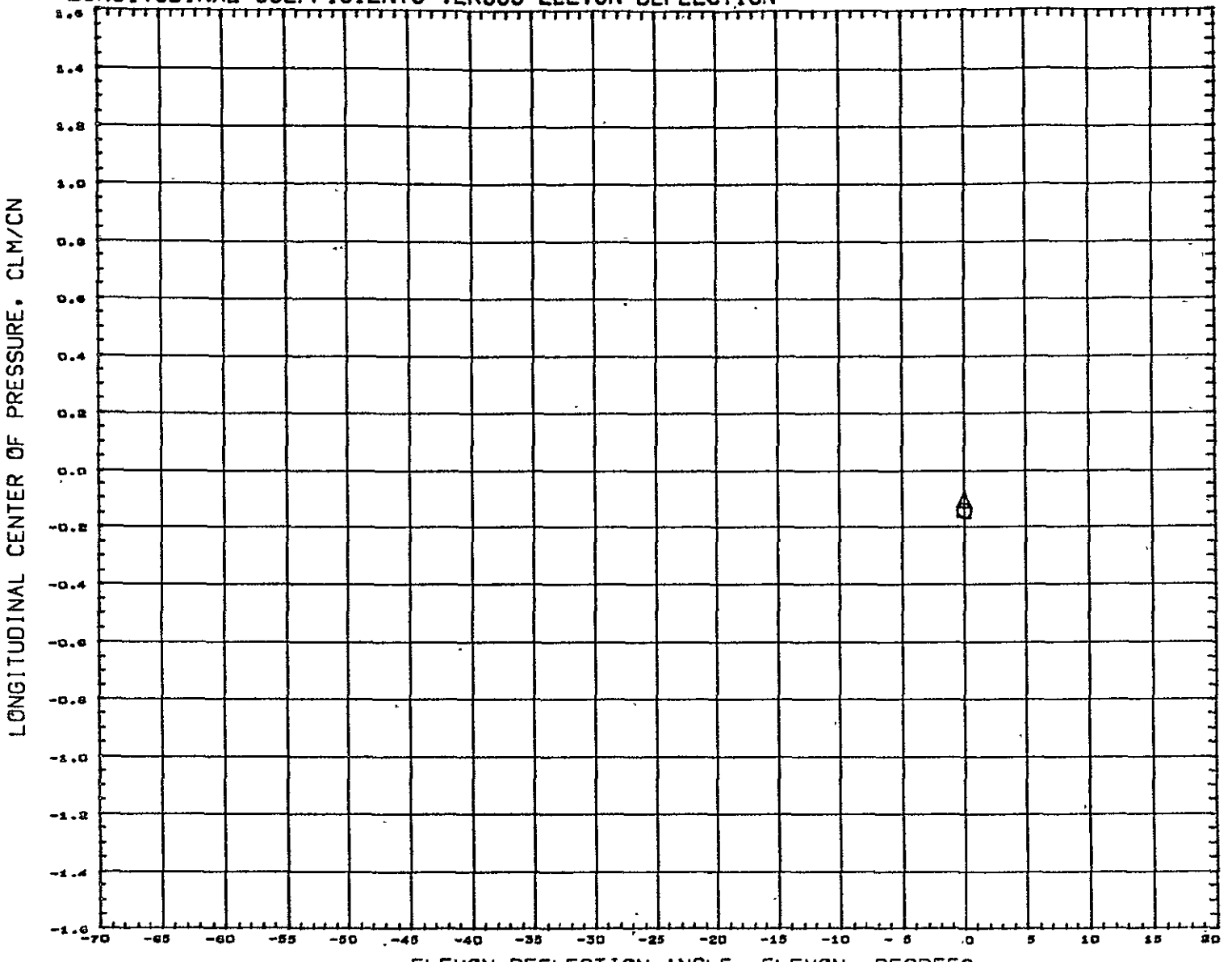
SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES					
MACH	1.050	BETA	0.000		
DEL	- 60.000	DER	- 60.000		
DCL	0.000	DCR	0.000		
CANARD	0.000	AILRON	0.000		
DATA HIST. CODE		MVR*EI			

DATA SOURCE					
DATASET	ELEVON	DATASET	ELEVON		
G28E74	- 60.000	G28E71	- 20.000		
G28AD1	- 10.000	G28B31	0.000		
G28E77	10.000				

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.100	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

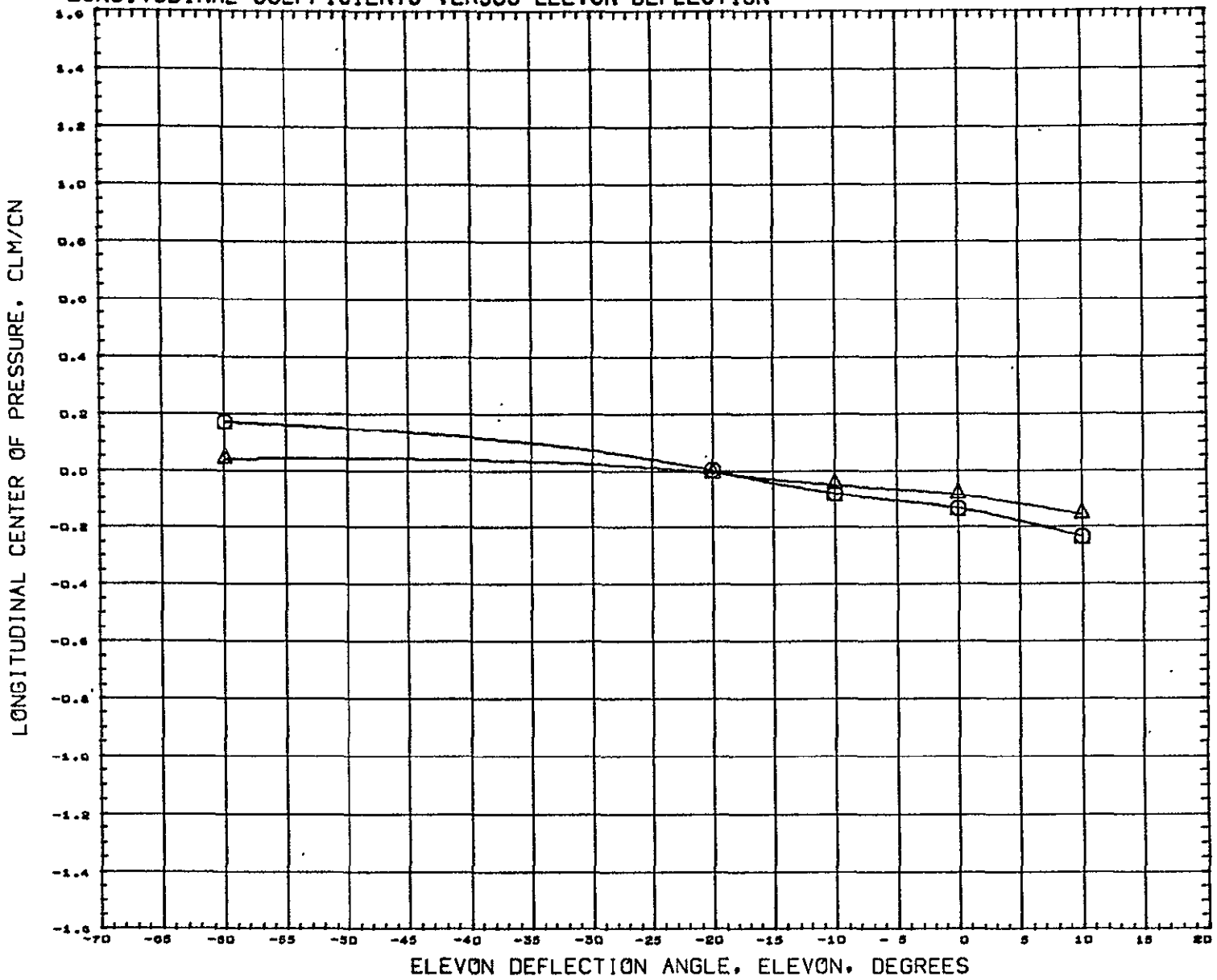
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

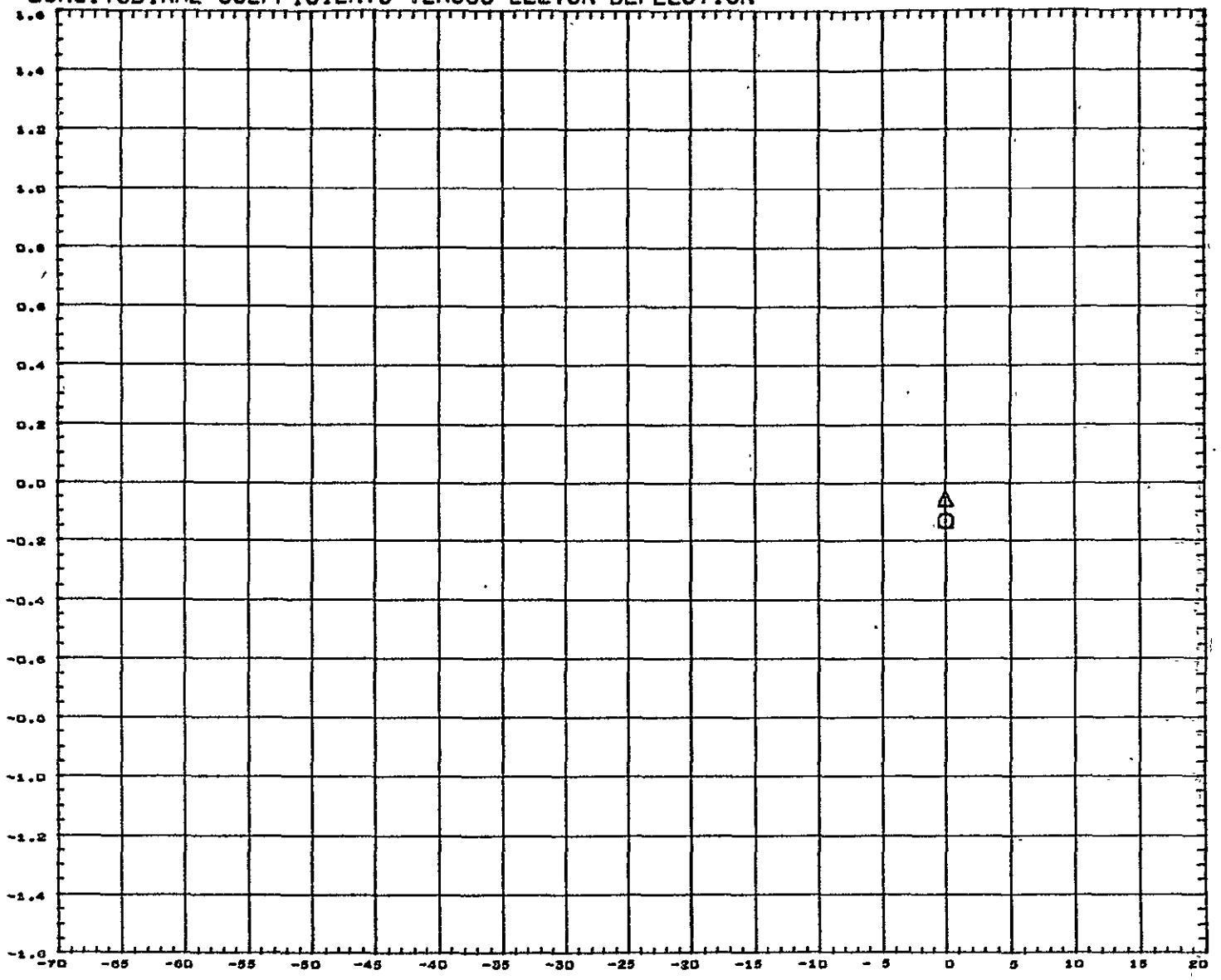
PARAMETRIC VALUES					
MACH	1.200	BETA	0.000		
DEL	- 60.000	DER	- 60.000		
DCL	0.000	DCR	0.000		
CANARD	0.000	AILRON	0.000		

DATA HIST. CODE MVR*EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.500	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

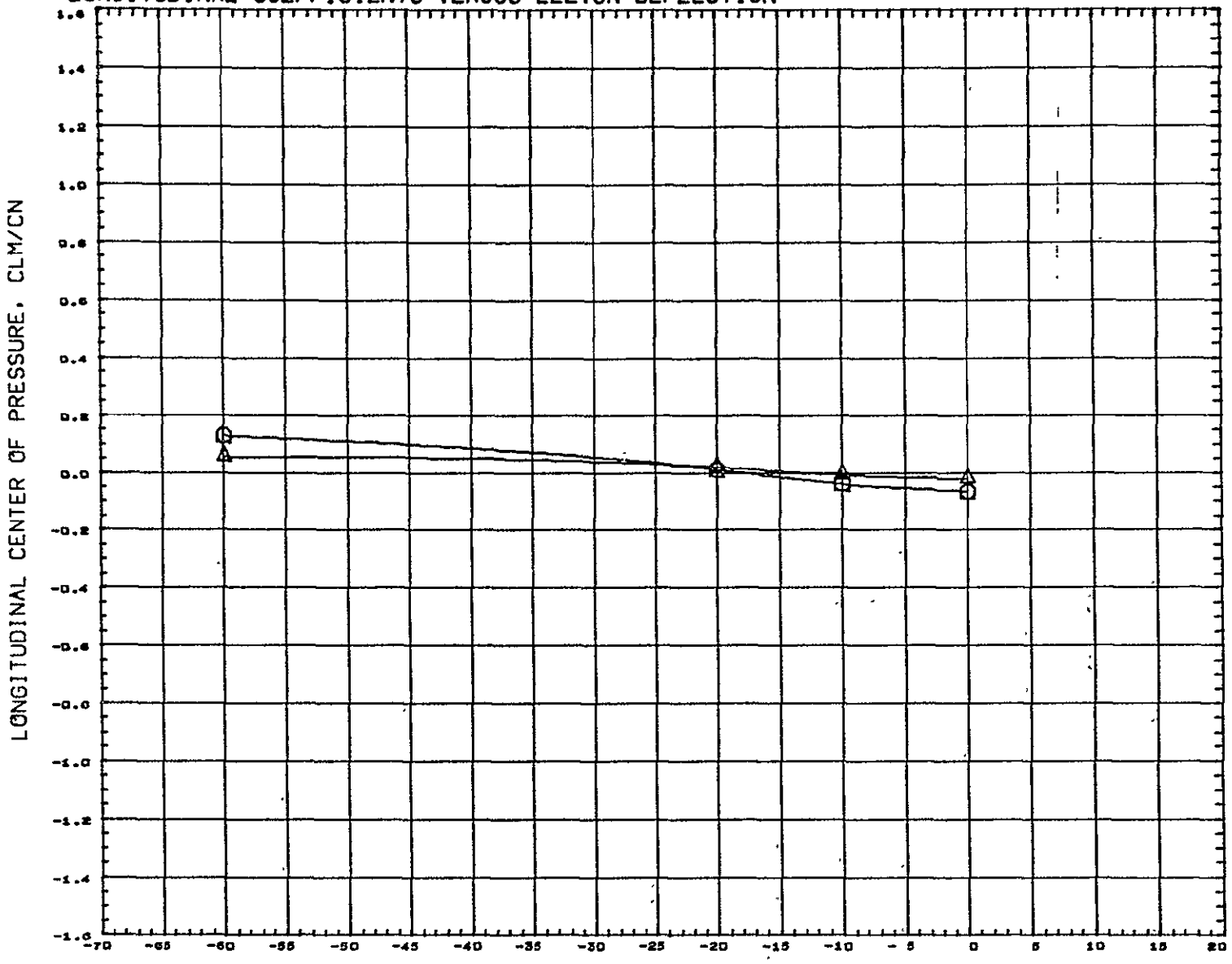
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0850	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

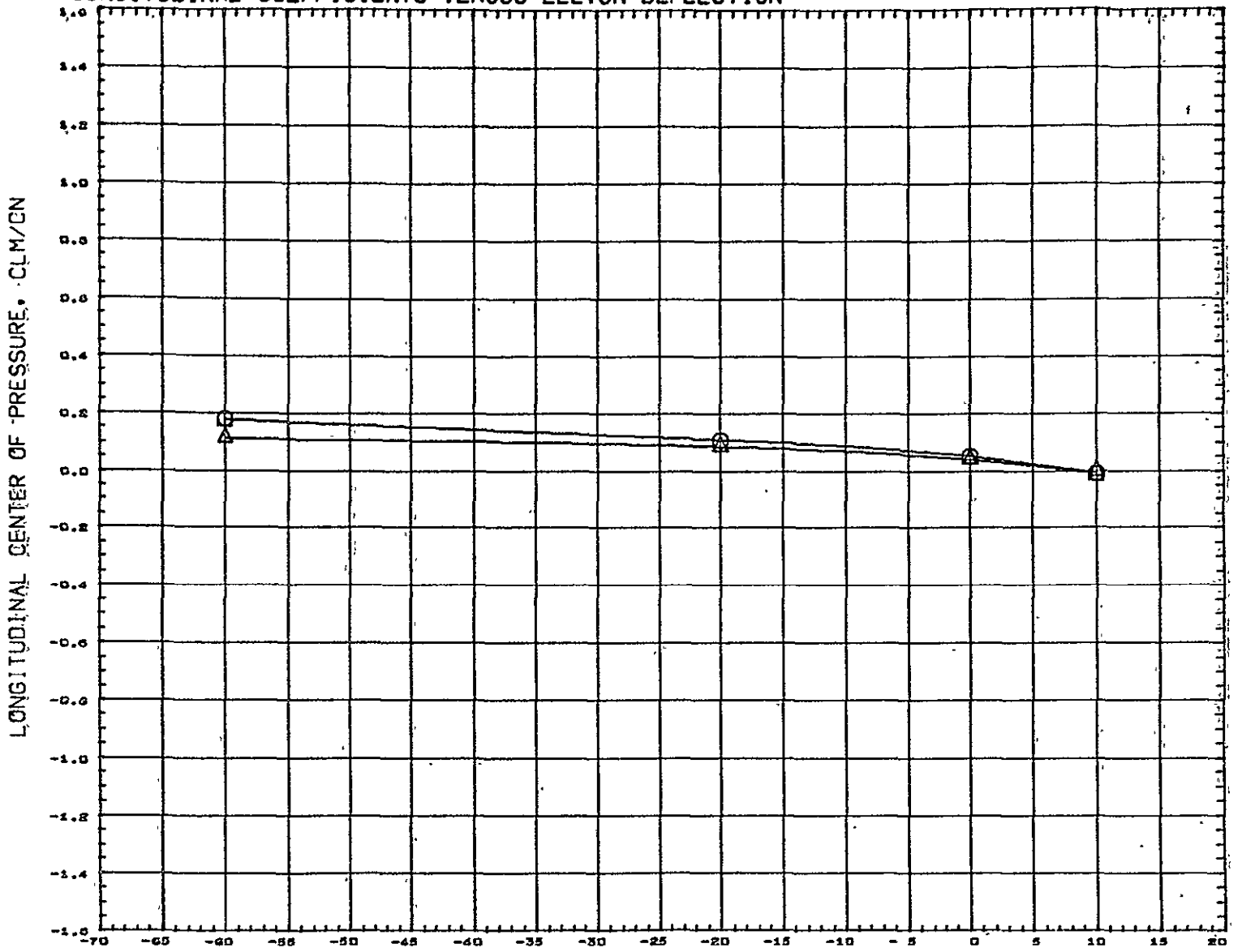
PARAMETRIC VALUES			
MACH	2.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28831	0.000
G28E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

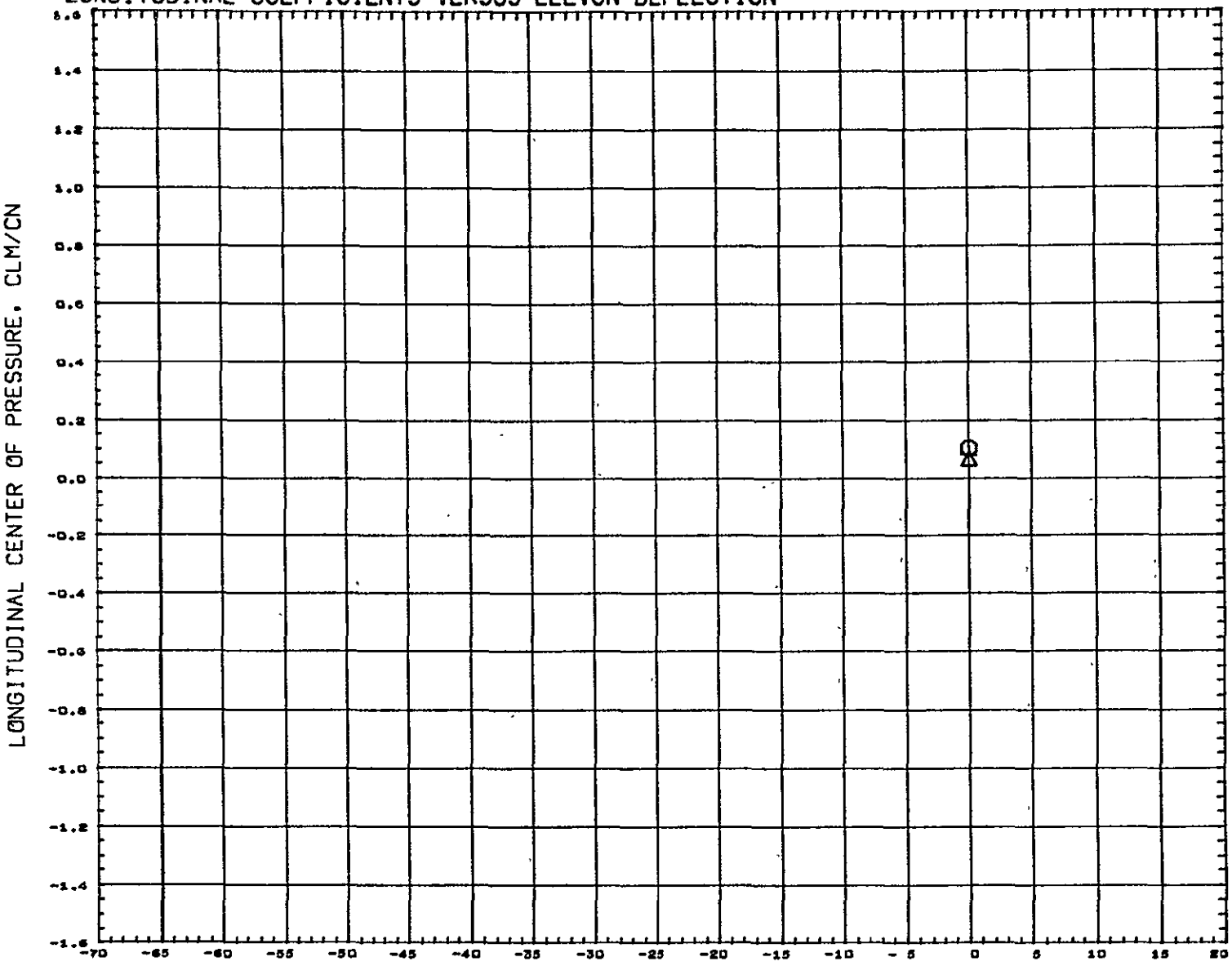
PARAMETRIC VALUES			
MACH	3.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

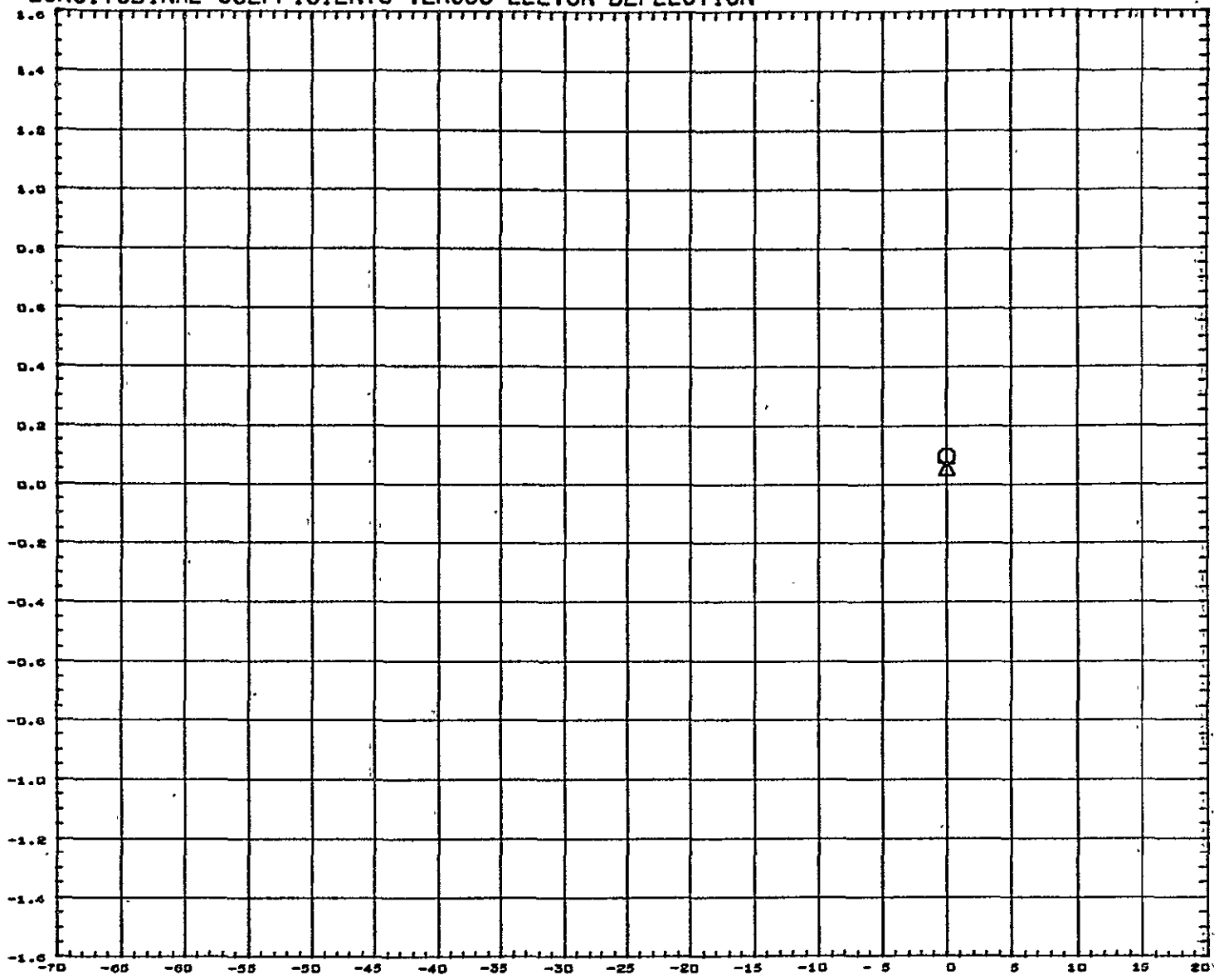
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0960	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

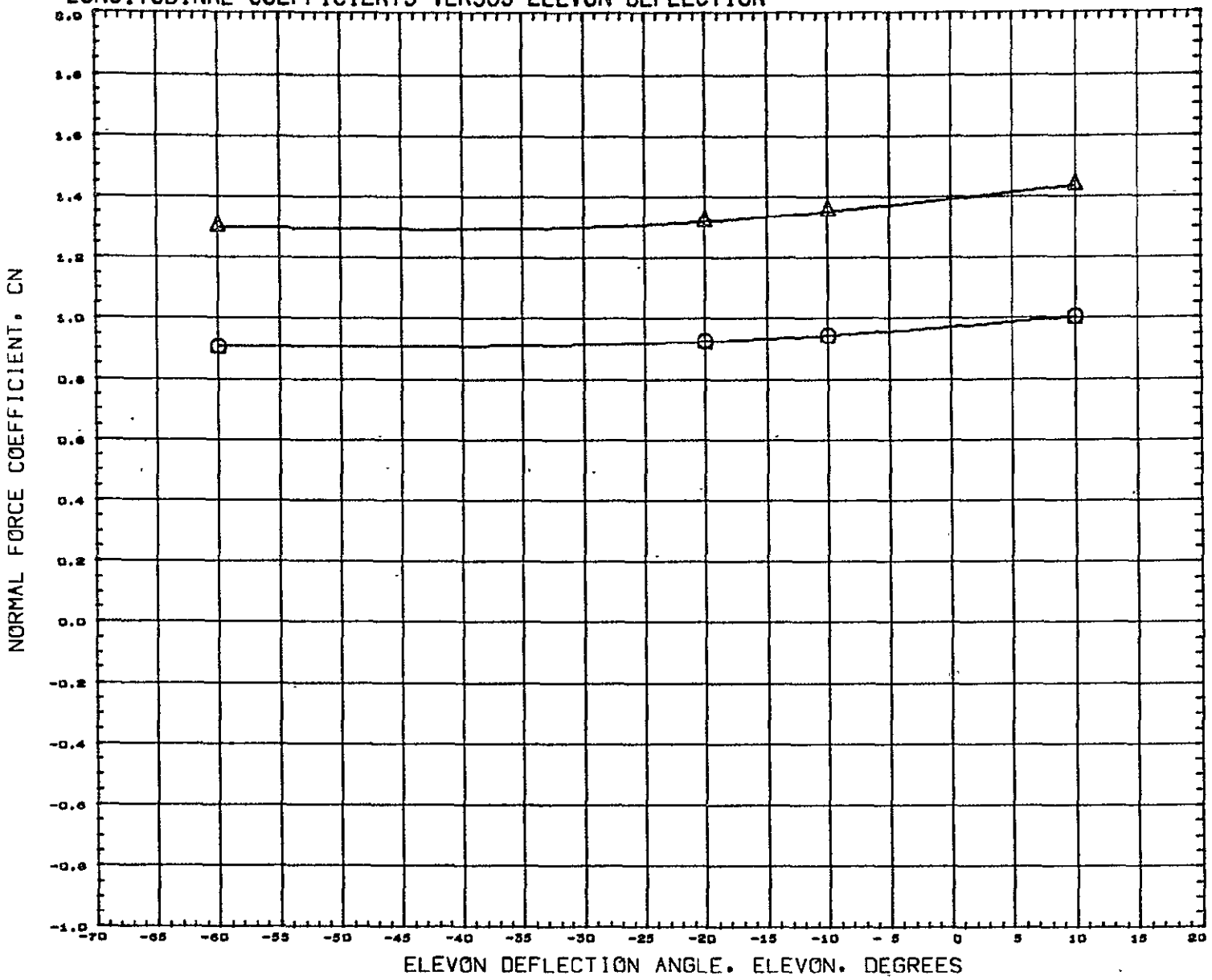
PARAMETRIC VALUES					
MACH	5.000	BETA	0.000		
DEL	- 60.000	DER	- 60.000		
DCL	0.000	DCR	0.000		
CANARD	0.000	AILRON	0.000		

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E74	- 60.000	G28E71	- 20.000
G28A01	- 10.000	G28B31	0.000
G28E77	10.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE MVR*EI

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
△	30.000
○	40.000

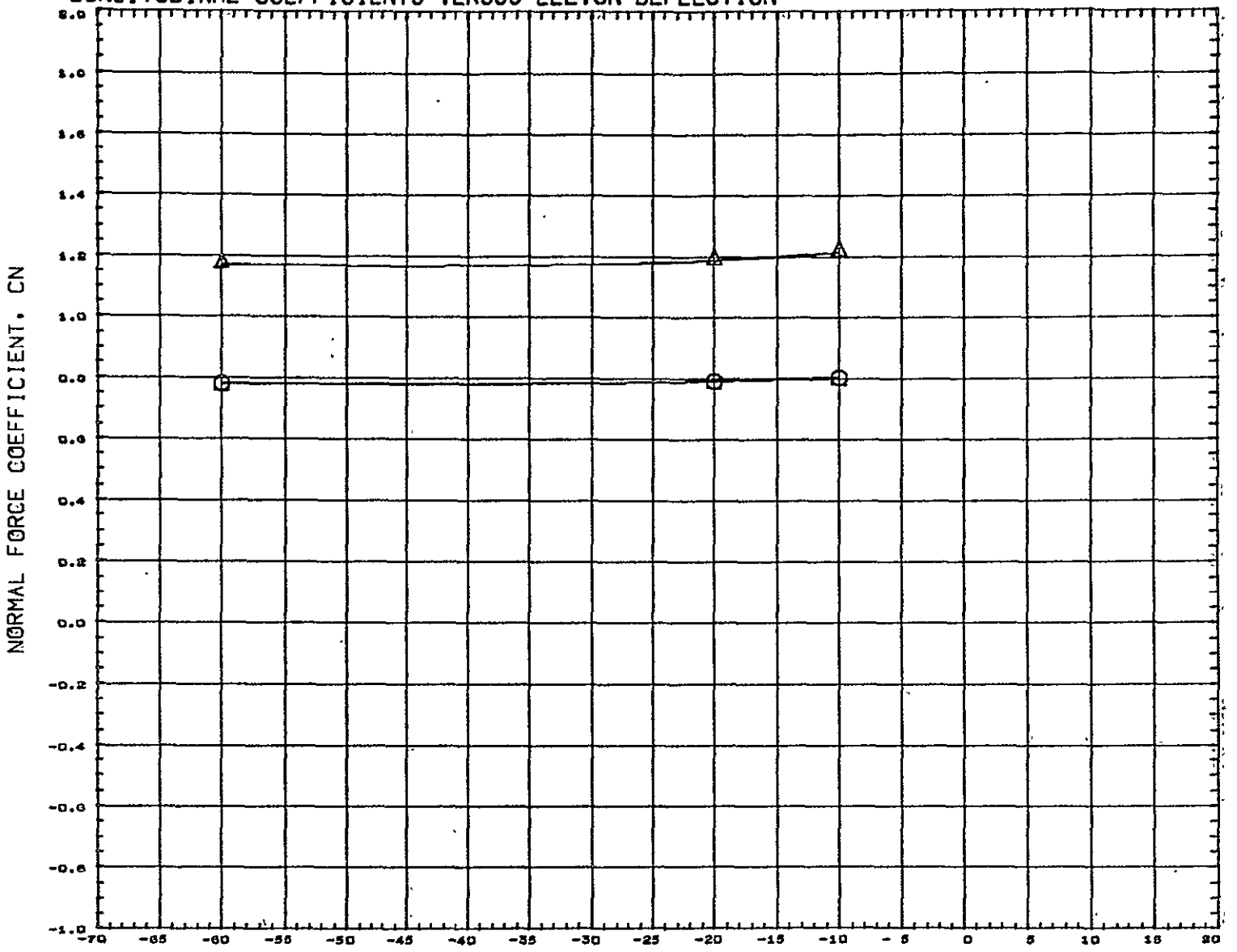
PARAMETRIC VALUES			
MACH	3.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E75	- 60.000	G28E72	- 20.000
G28A02	- 10.000	G28E78	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

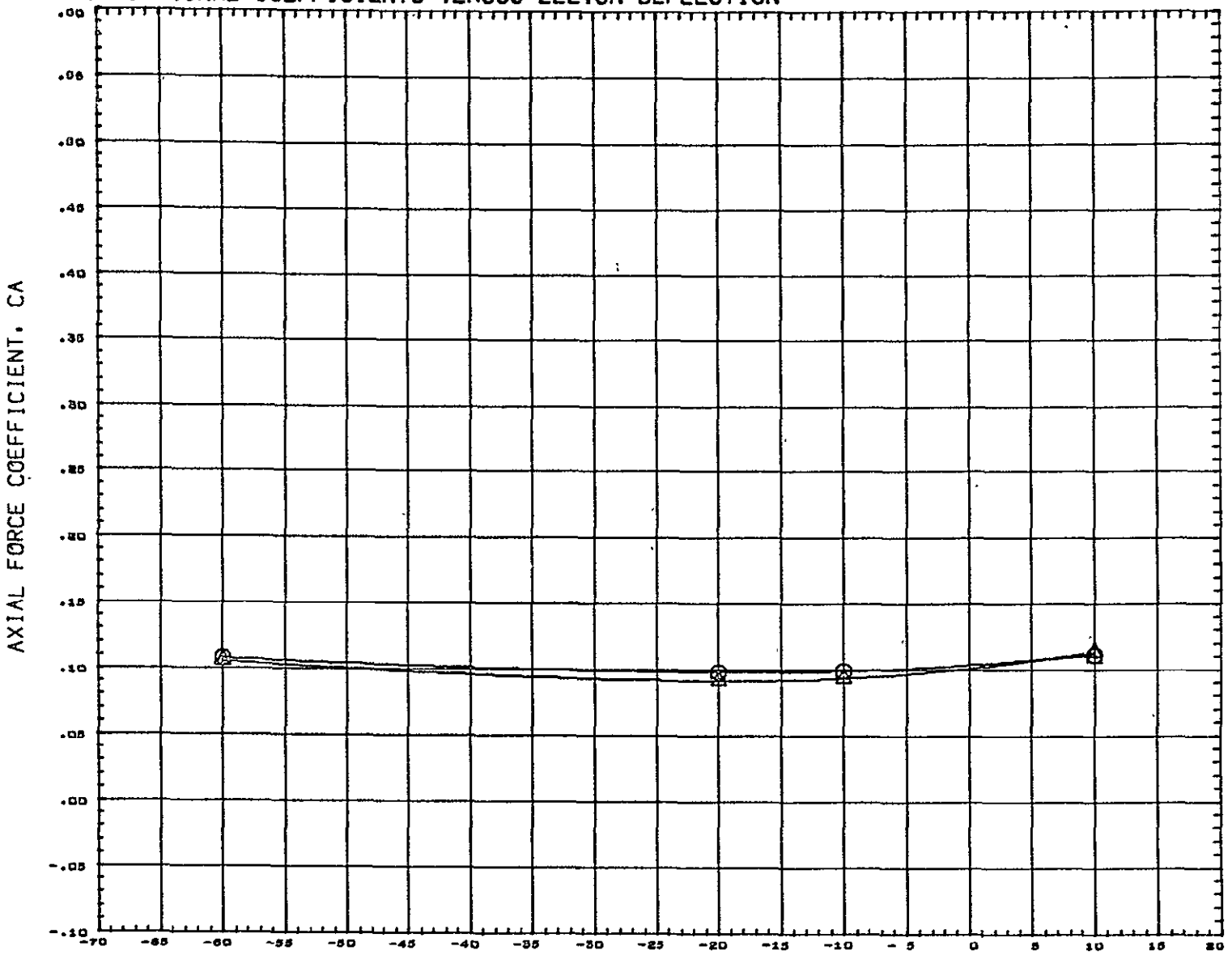
LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
◇	30.000	MACH	5.000	BETA	0.000	DATASET	ELEVON	DATASET	ELEVON	SREF	15.6560	SQ.IN.
△	40.000	DEL	-60.000	DER	-60.000	G28E75	-60.000	G28E72	-20.000	LREF	3.0950	IN.
		DCL	0.000	DCR	0.000	G28A02	-10.000	G28E78	10.000	BREF	6.0990	IN.
		CANARD	0.000	AILRON	0.000					XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE MVR#EI

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
◇	30.000
△	40.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1

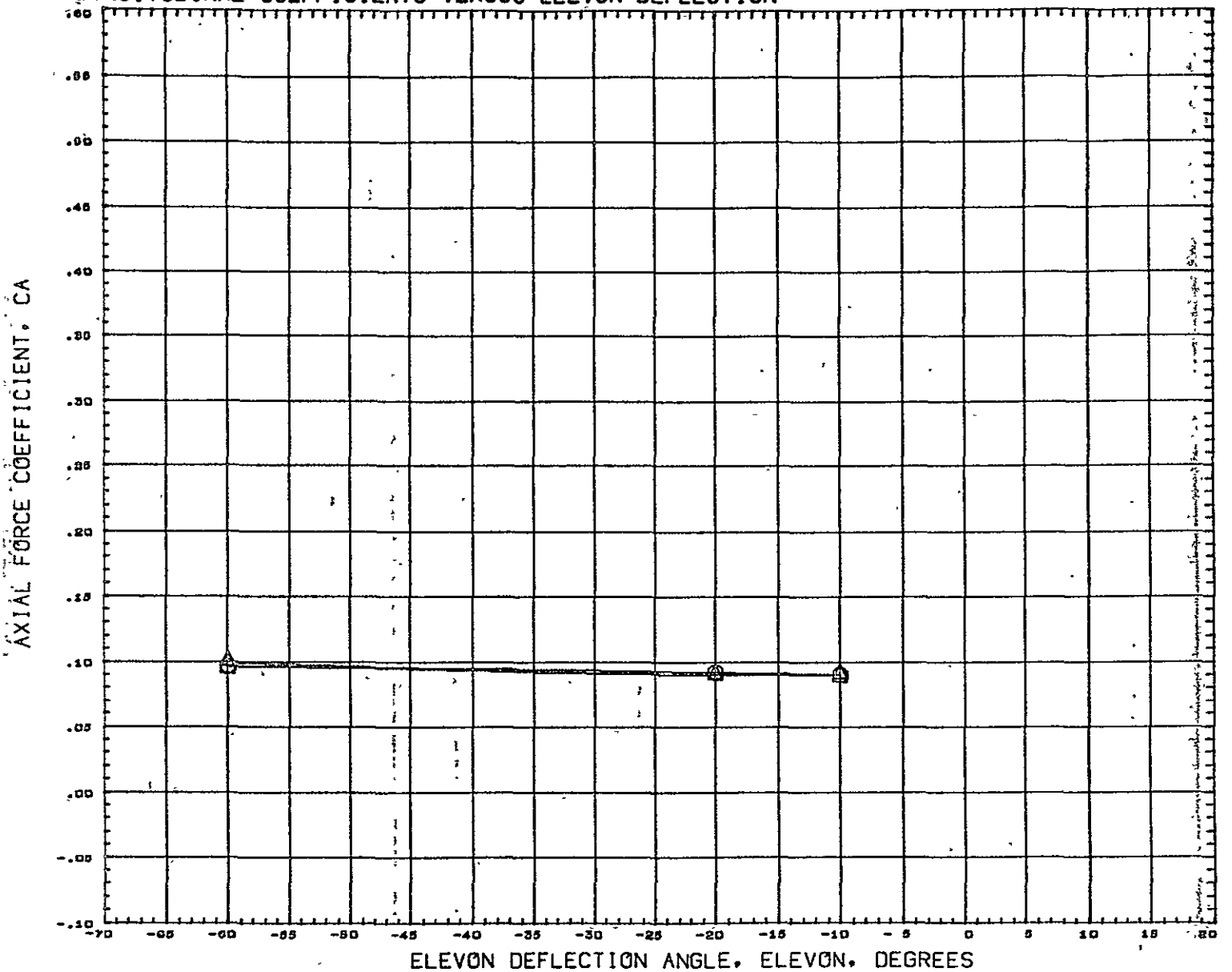
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E75	- 60.000	G28E72	- 20.000
G28A02	- 10.000	G28E78	10.000

REFERENCE INFORMATION

SREF	15.6360	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR#EI

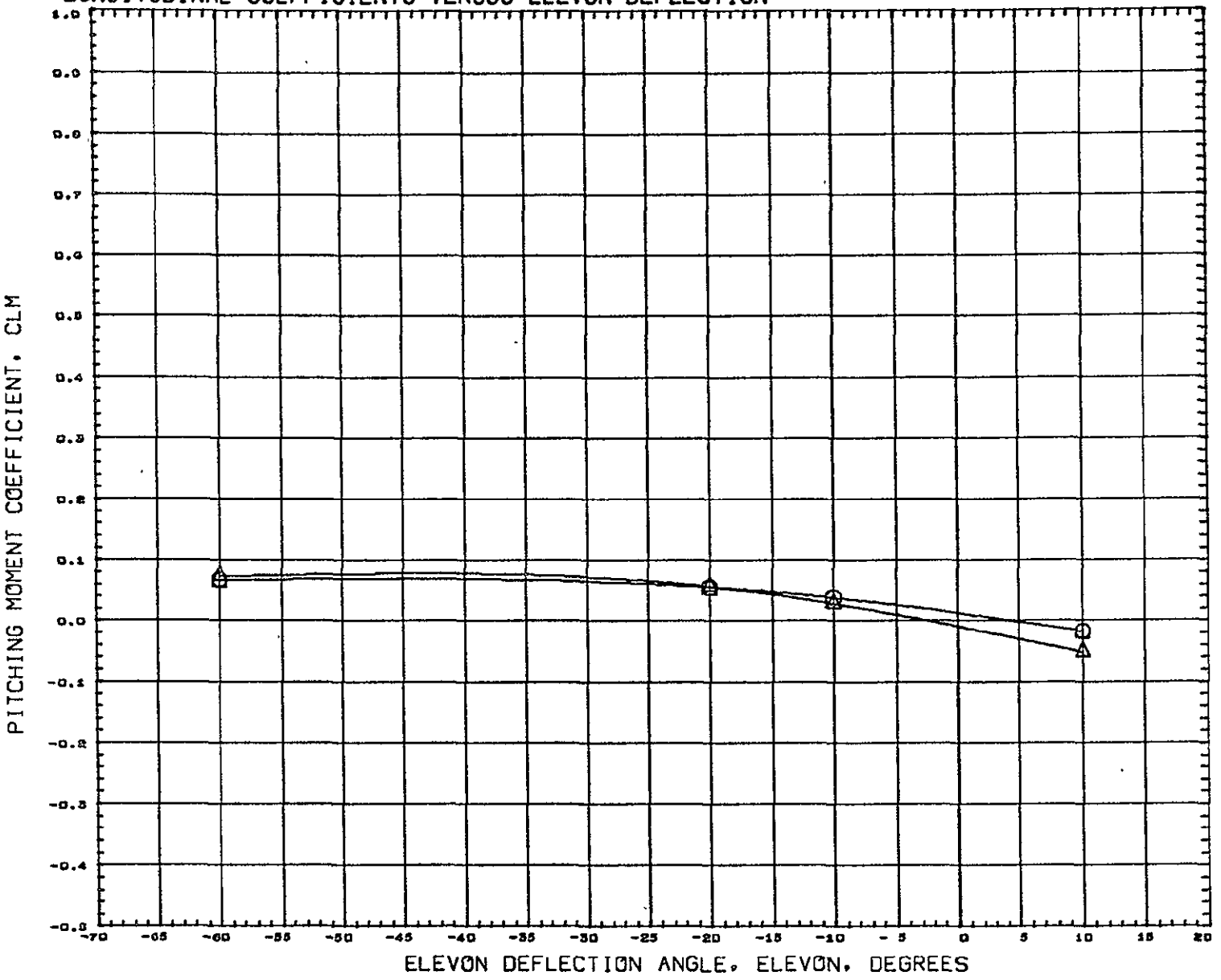
DATA SOURCE

DATASET	ELEVON	DATASET	ELEVON
G28E75	- 60.000	G28E72	- 20.000
G28A02	- 10.000	G28E78	10.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	5.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
◇	30.000
△	40.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE

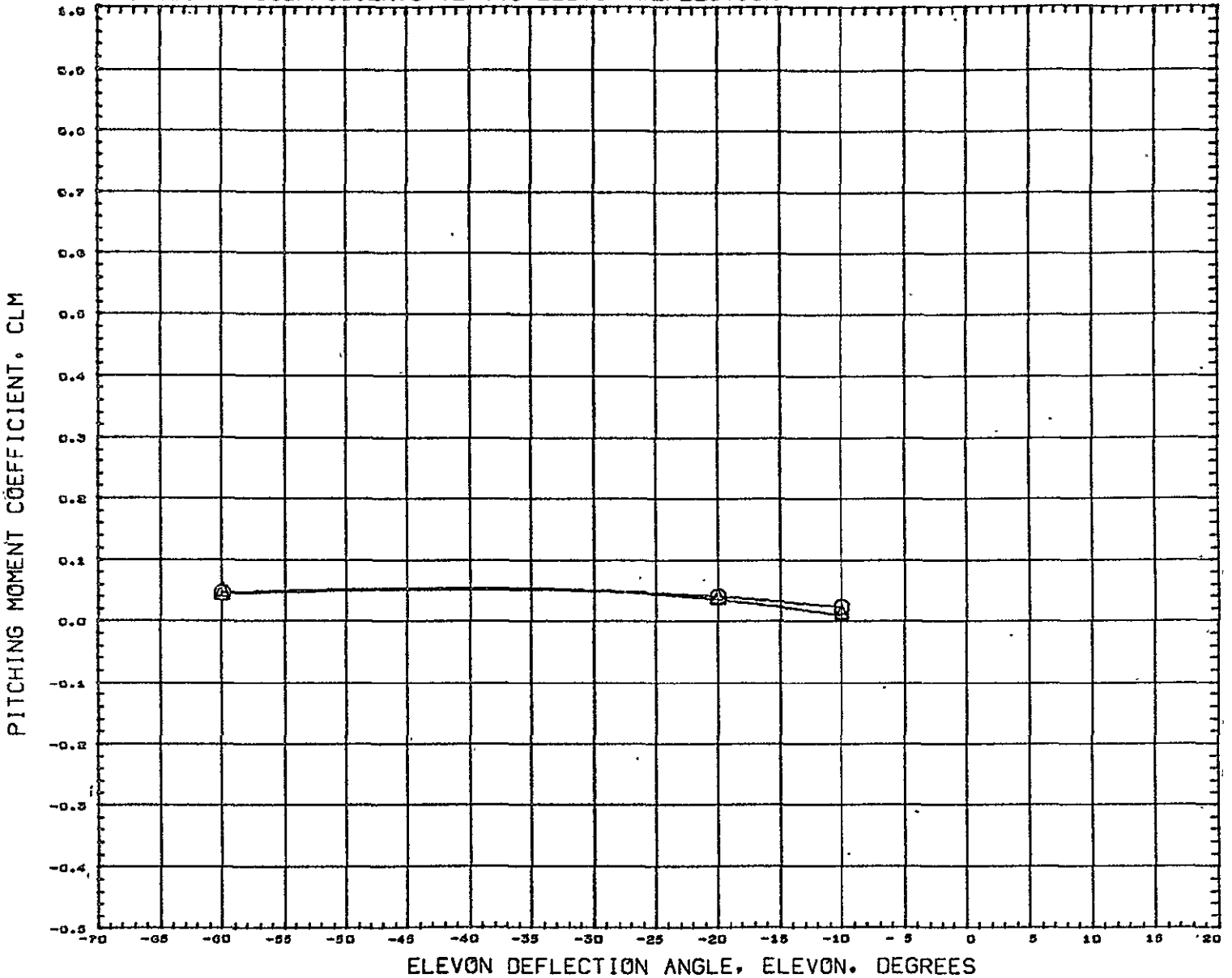
DATASET	ELEVON	DATASET	ELEVON
G28E75	- 60.000	G28E72	- 20.000
G29A02	- 10.000	G28E78	10.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

S 9

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
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△	40.000

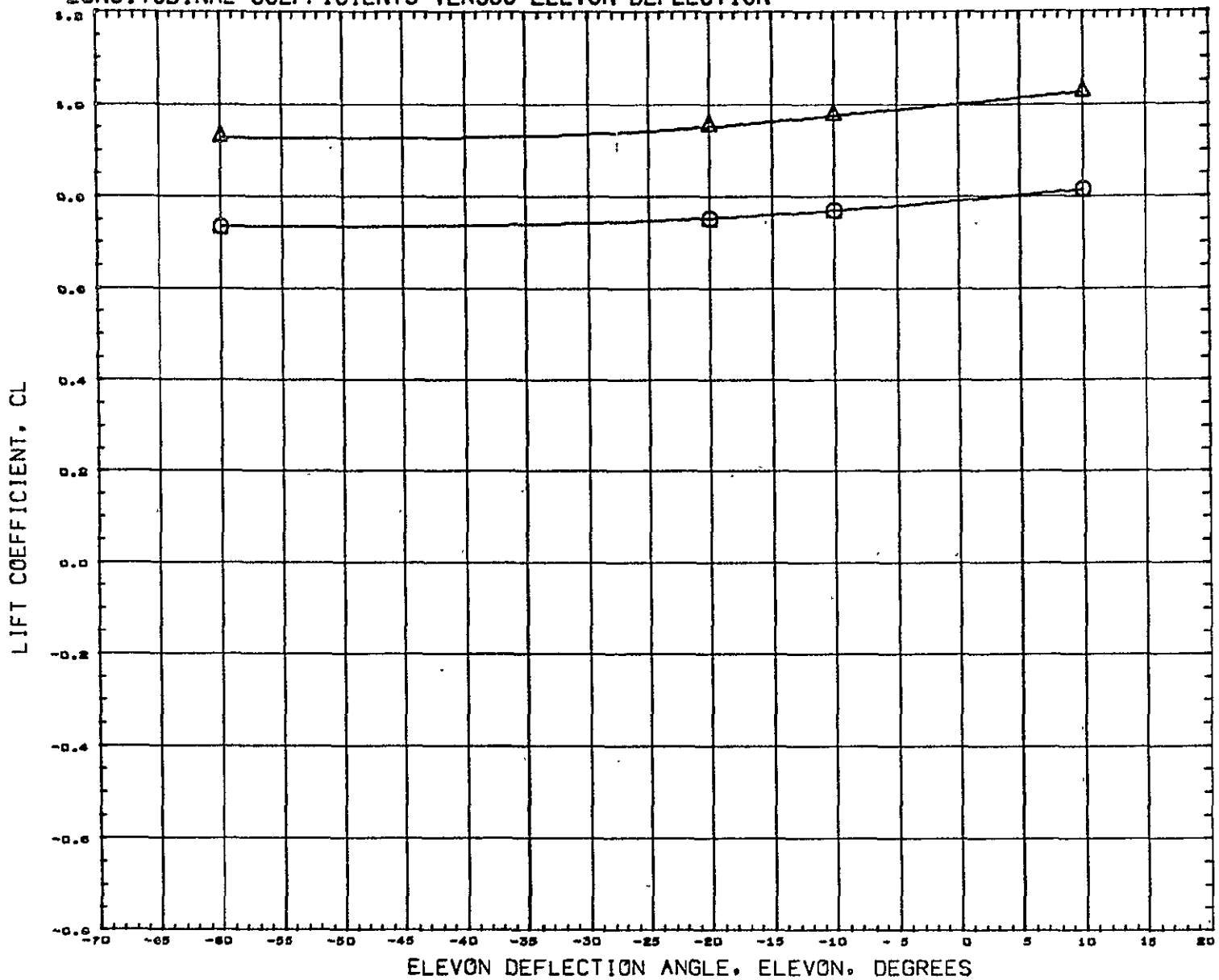
PARAMETRIC VALUES			
MACH	5.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR0EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E75	- 60.000	G28E72	- 20.000
G28A02	- 10.000	G28E78	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



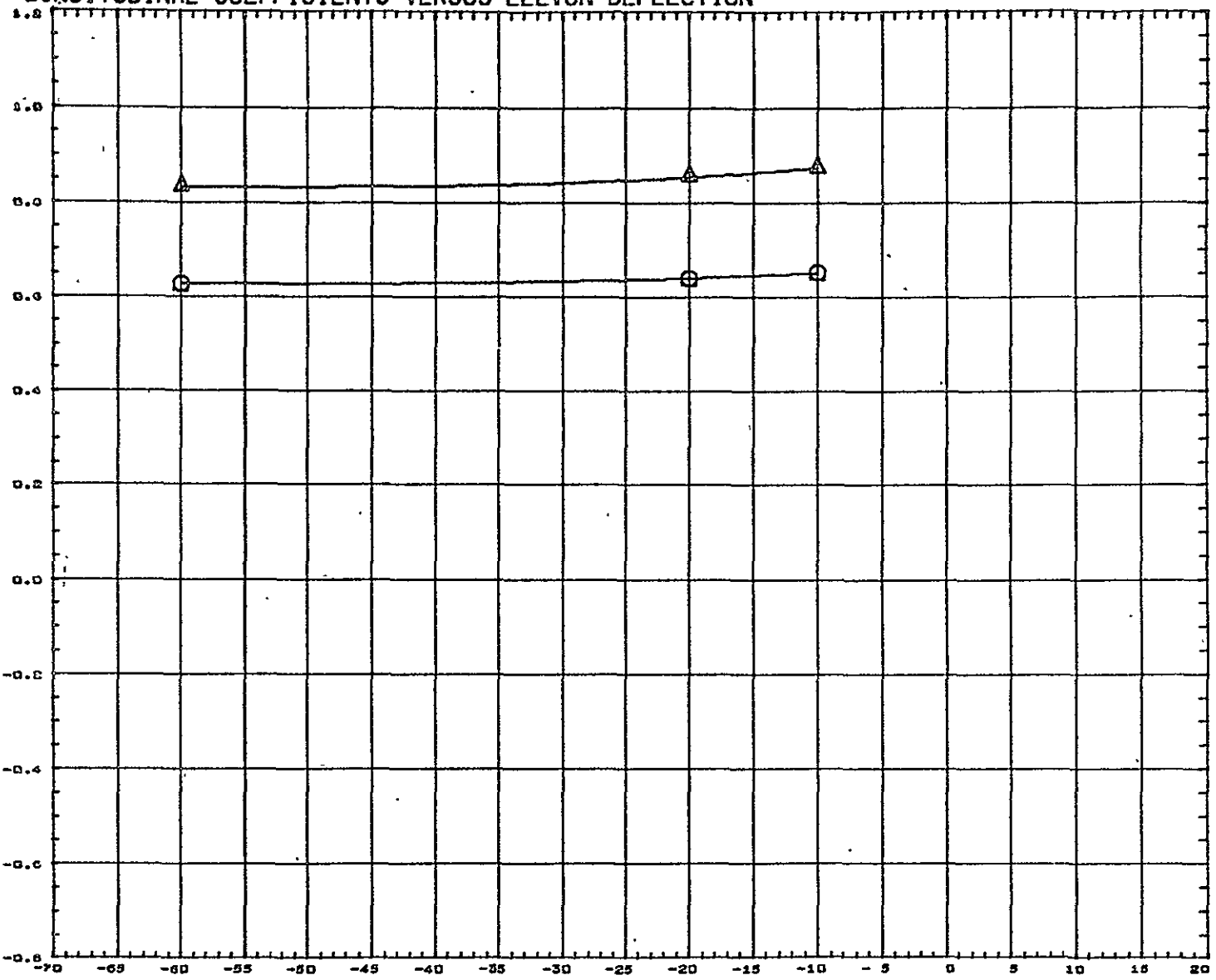
SYMBOL	ALPHA
◇	30.000
△	40.000

PARAMETRIC VALUES					
MACH	3.000	BETA	0.000		
DEL	- 60.000	DER	- 60.000		
DCL	0.000	DCR	0.000		
CANARD	0.000	AILRON	0.000		
DATA HIST. CODE	HVR*EI				

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E75	- 60.000	G28E72	- 20.000
G28A02	- 10.000	G28E76	10.000

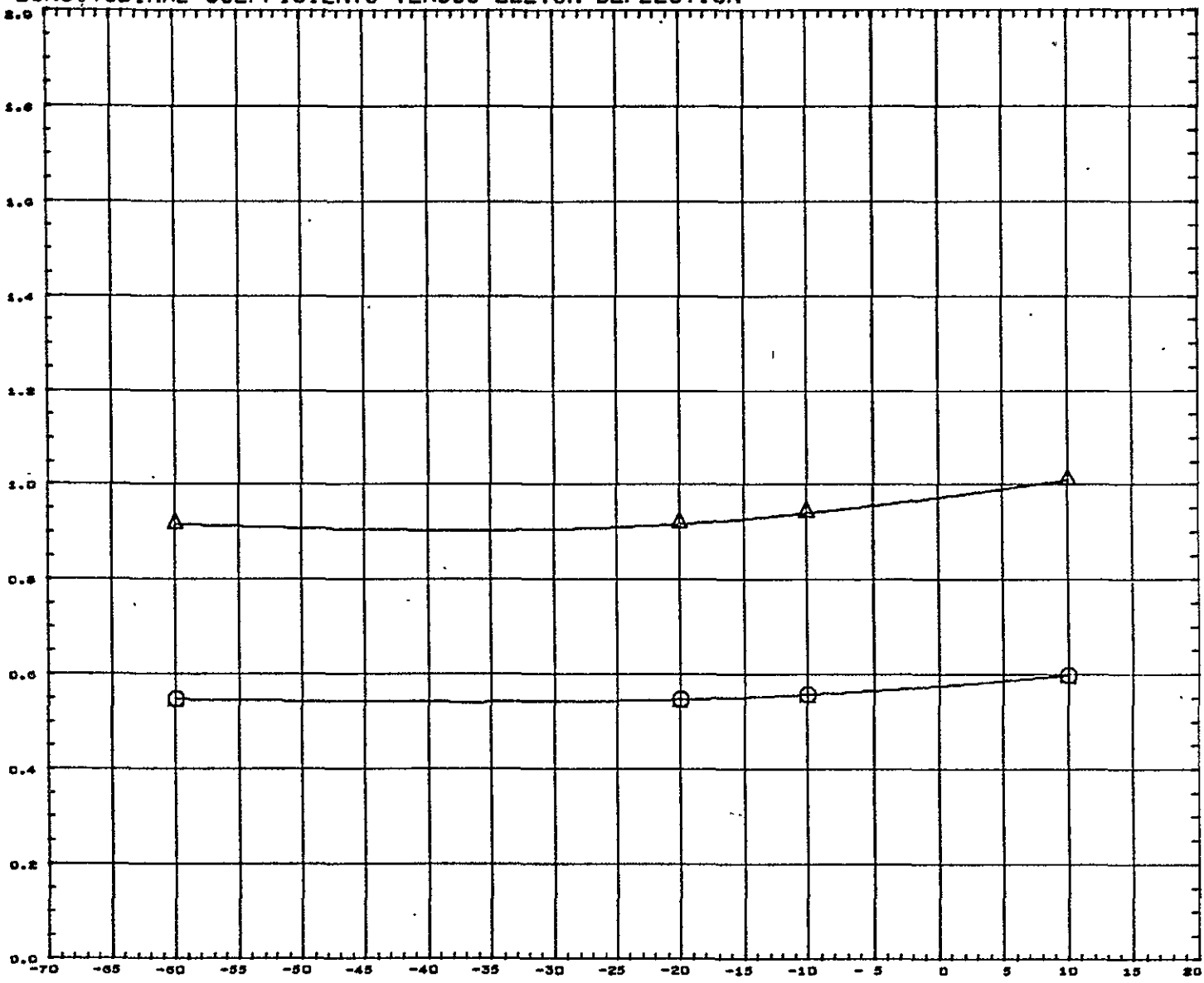
REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	30.000	MACH	5.000	BETA	0.000	DATASET	ELEVON	DATASET	ELEVON	SREF	15.6560	SQ.IN.
△	40.000	DEL	-60.000	DER	-60.000	G28E75	-60.000	G28E72	-20.000	LREF	3.0950	IN.
		DCL	0.000	DCR	0.000	G28A02	-10.000	G28E78	10.000	BREF	6.0990	IN.
		CANARD	0.000	AILRON	0.000					XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
		DATA HIST. CODE	MVR*EI							SCALE	0.0055	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	30.000
△	40.000

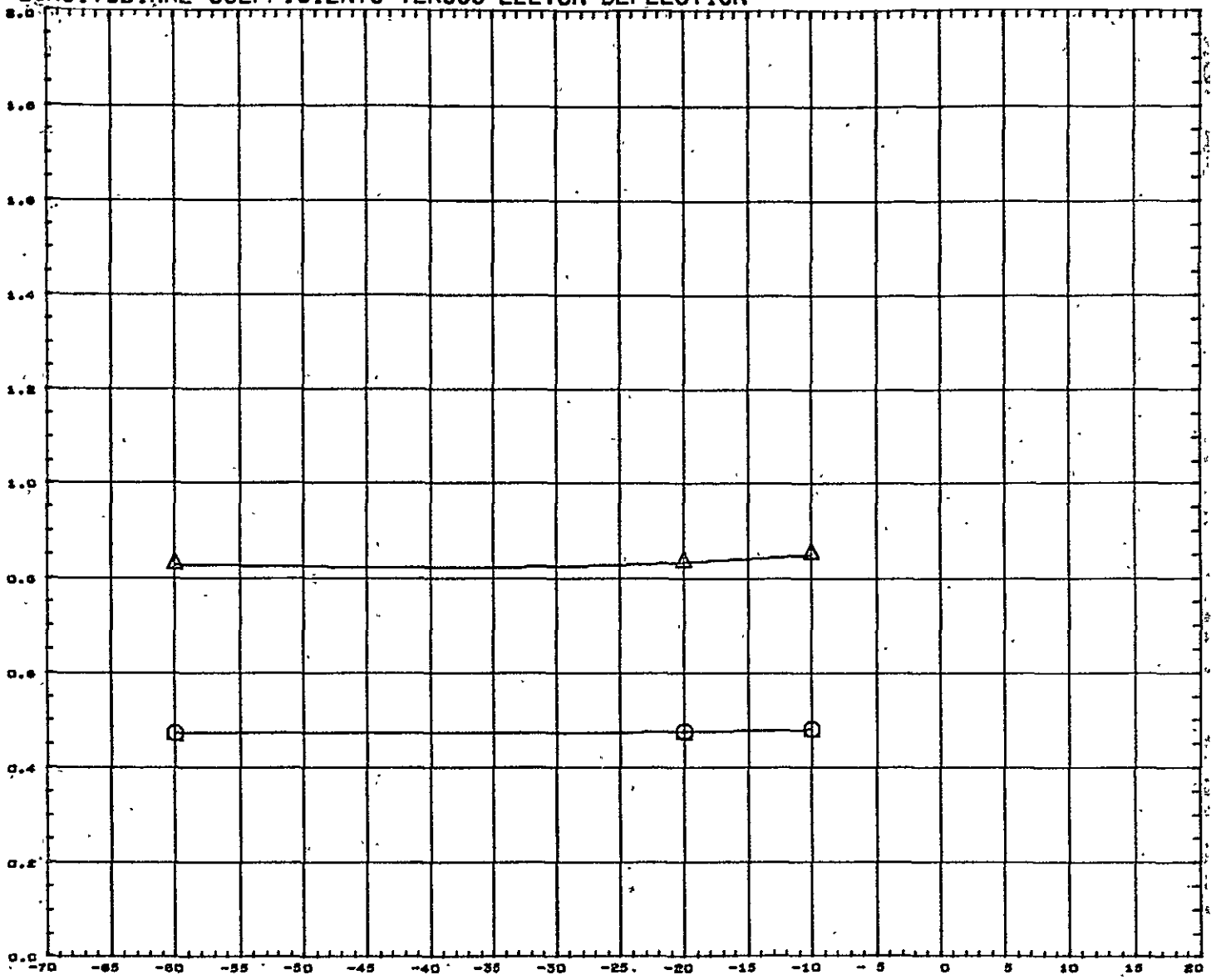
PARAMETRIC VALUES			
MACH	3.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

DATA SOURCE			
DATASET	ELEVON	DATASET	ELEVON
G28E75	- 60.000	G28E72	- 20.000
G28A02	- 10.000	G28E78	10.000

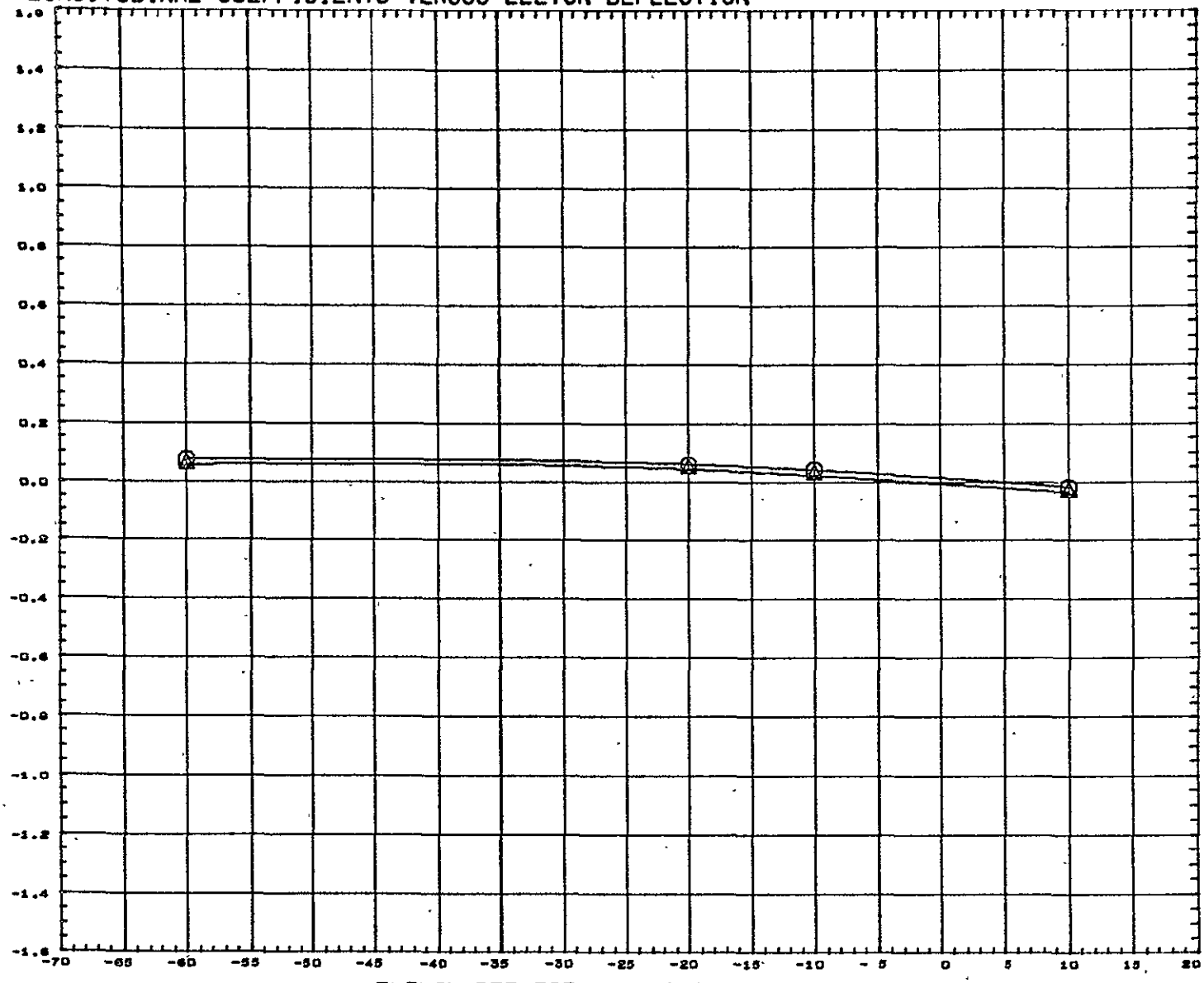
REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	30.000	MACH	5.000	BETA	0.000	DATASET	ELEVON	DATASET	ELEVON	SREF	15.6560	SQ.IN.
△	40.000	DEL	- 60.000	DER	- 60.000	G28E75	- 60.000	G28E72	- 20.000	LREF	3.0950	IN.
		DCL	0.000	DCR	0.000	G28AD2	- 10.000	G28E78	10.000	BREF	6.0990	IN.
		CANARD	0.000	AILRON	0.000					XMRP	6.7100	IN.
										YMRP	0.0000	IN.
		DATA HIST. CODE		MVR*EI						ZMRP	0.0000	IN.
										SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA
○	30.000
△	40.000

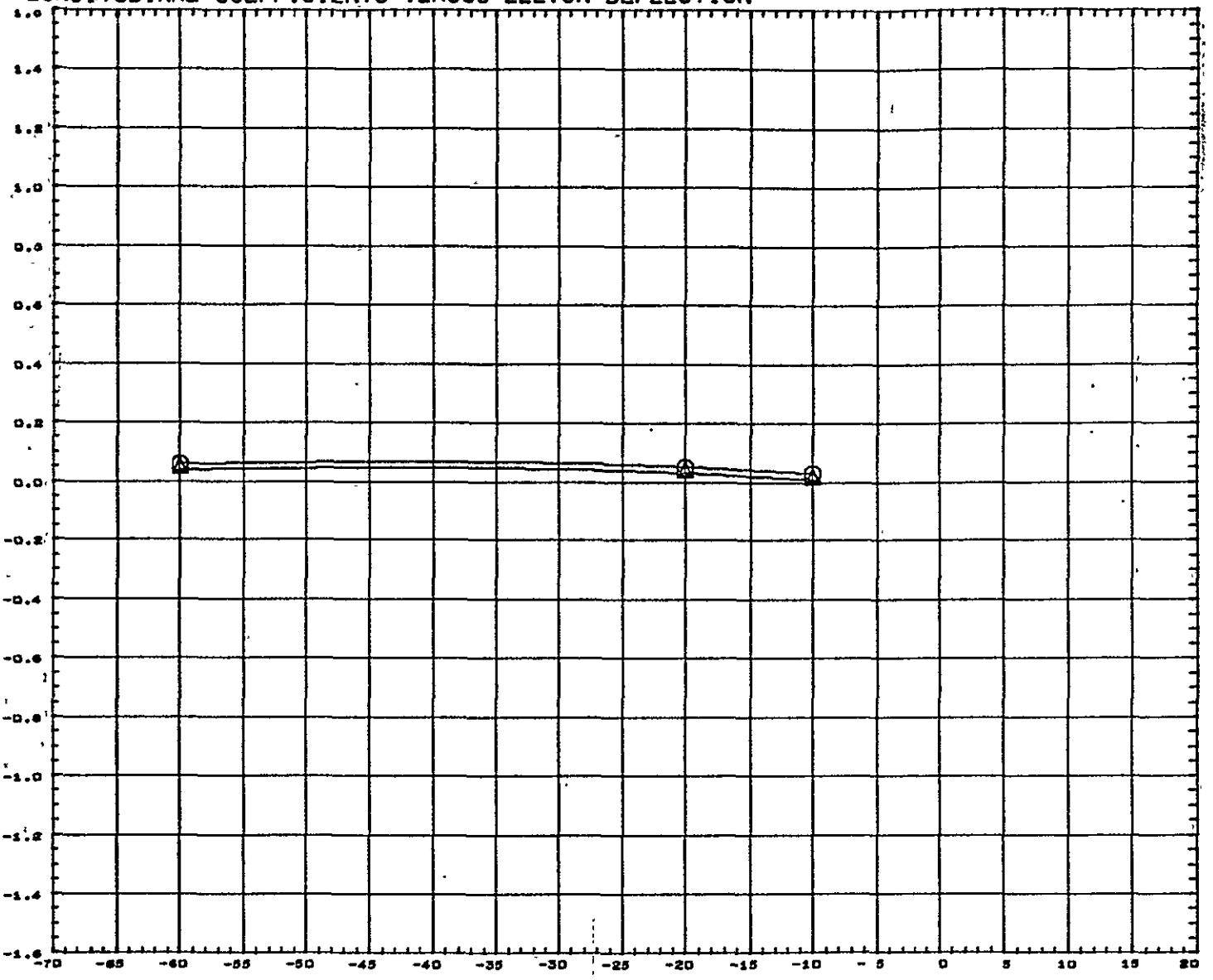
PARAMETRIC VALUES			
MACH	3.000	BETA	0.000
DEL	- 60.000	DER	- 60.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	0.000

DATA MIST. CODE MVR*EI

DATA SOURCE					
DATASET	ELEVON		DATASET	ELEVON	
G28E75	- 60.000		G28E72	- 20.000	
G28A02	- 10.000		G28E78	10.000	

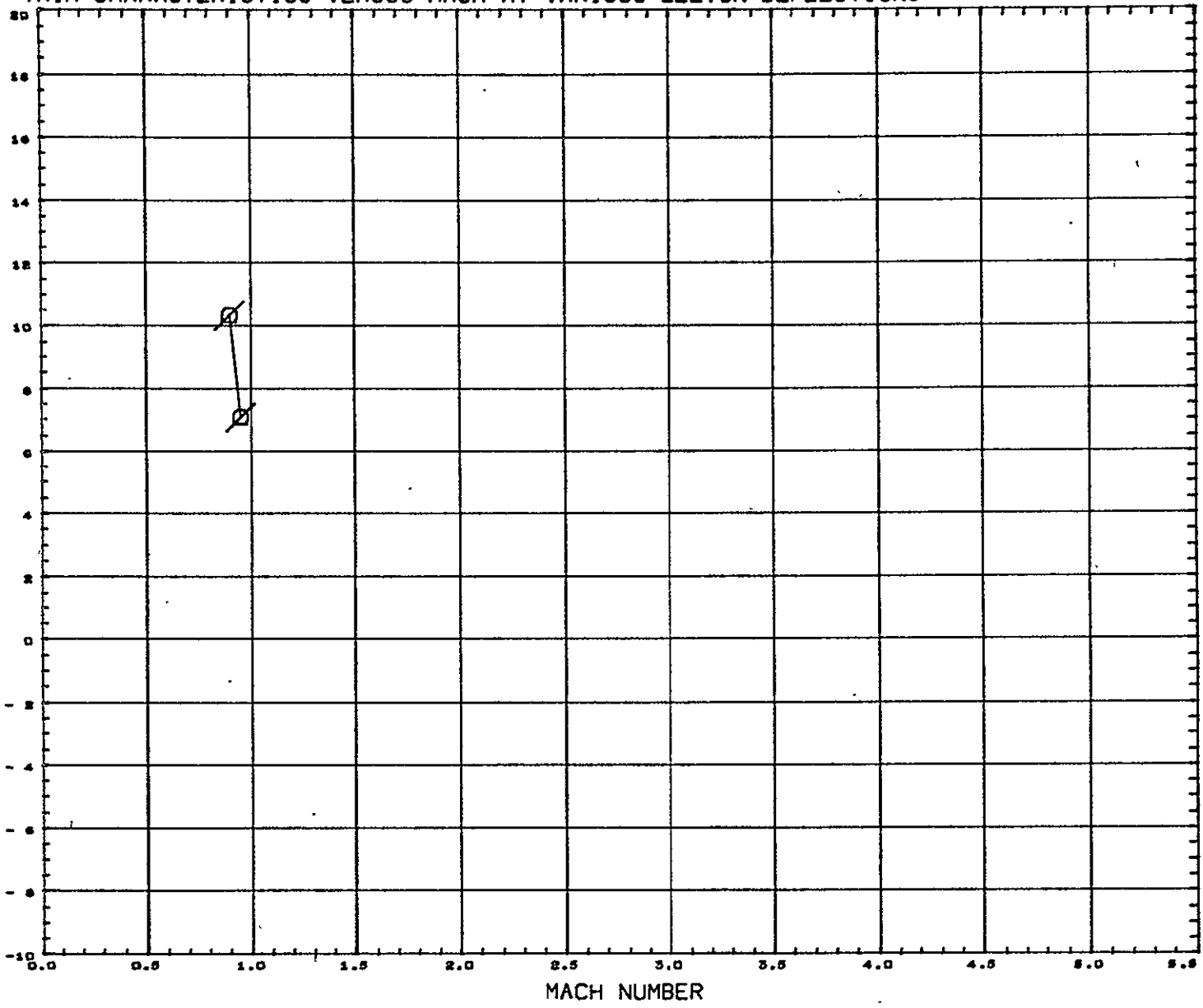
REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENTS VERSUS ELEVON DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	-30.000	MACH	5.000	BETA	0.000	DATASET	ELEVON	DATASET	ELEVON	SREF	15.6560	SQ.IN.
△	40.000	DEL	-60.000	DER	-60.000	G28E75	-60.000	G28E72	-20.000	LREF	3.0950	IN.
		DCL	0.000	DCR	0.000	G28A02	-10.000	G28E76	10.000	BREF	6.0990	IN.
		CANARD	0.000	AILRON	0.000					XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
		DATA HIST. CODE		MVR#EI						SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

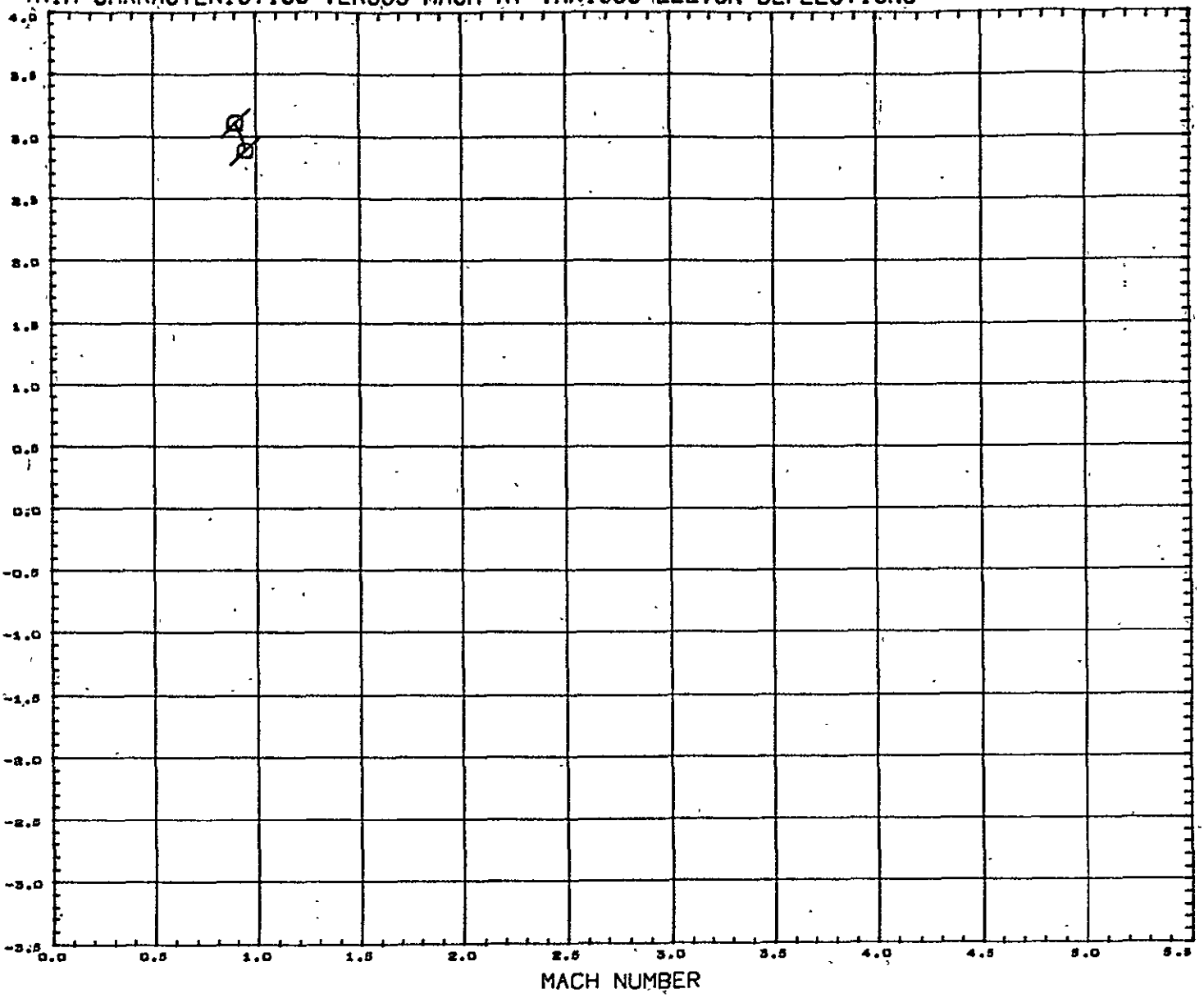
BETA	0.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

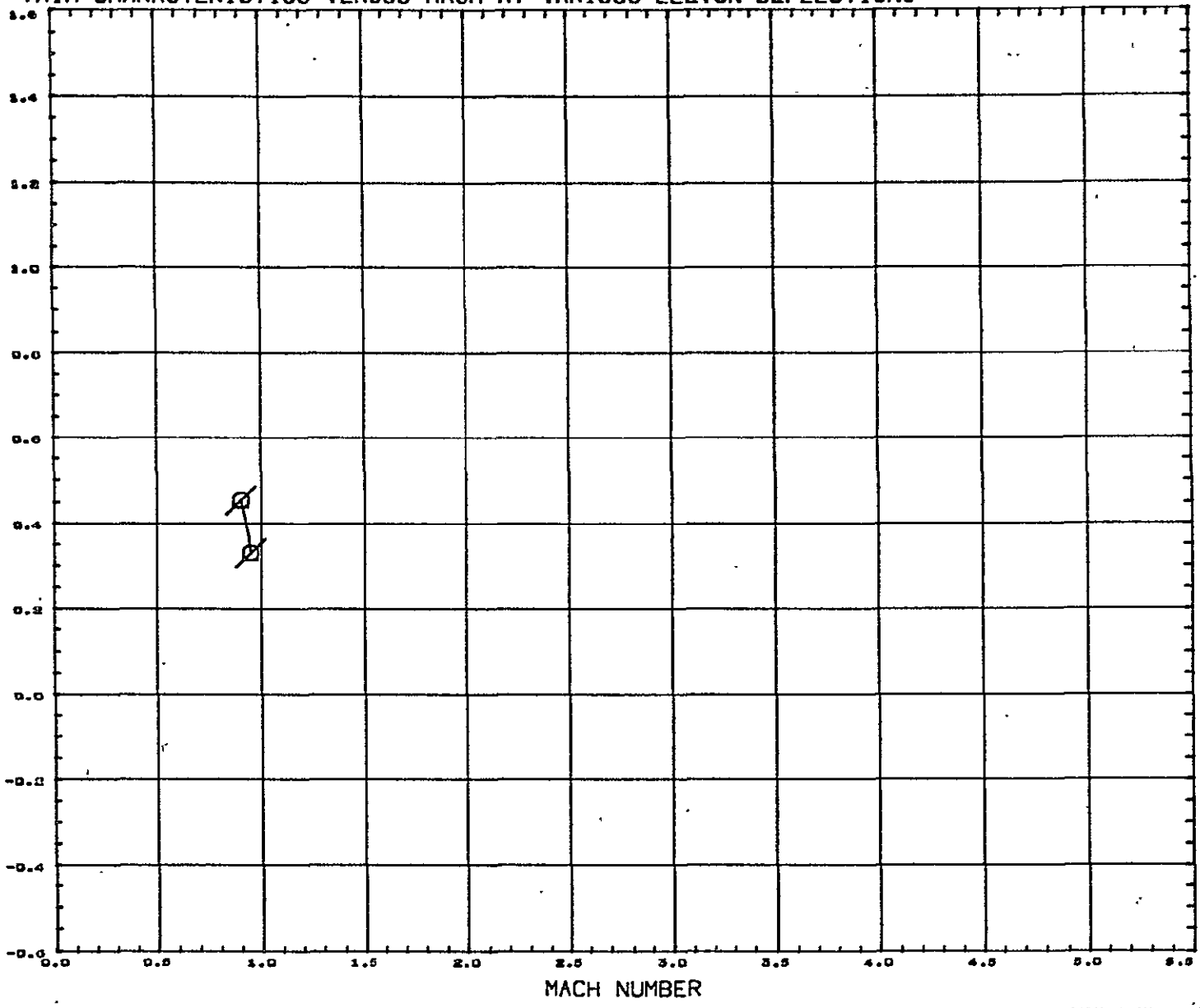
BETA	0.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

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DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*GIF

REFERENCE INFORMATION

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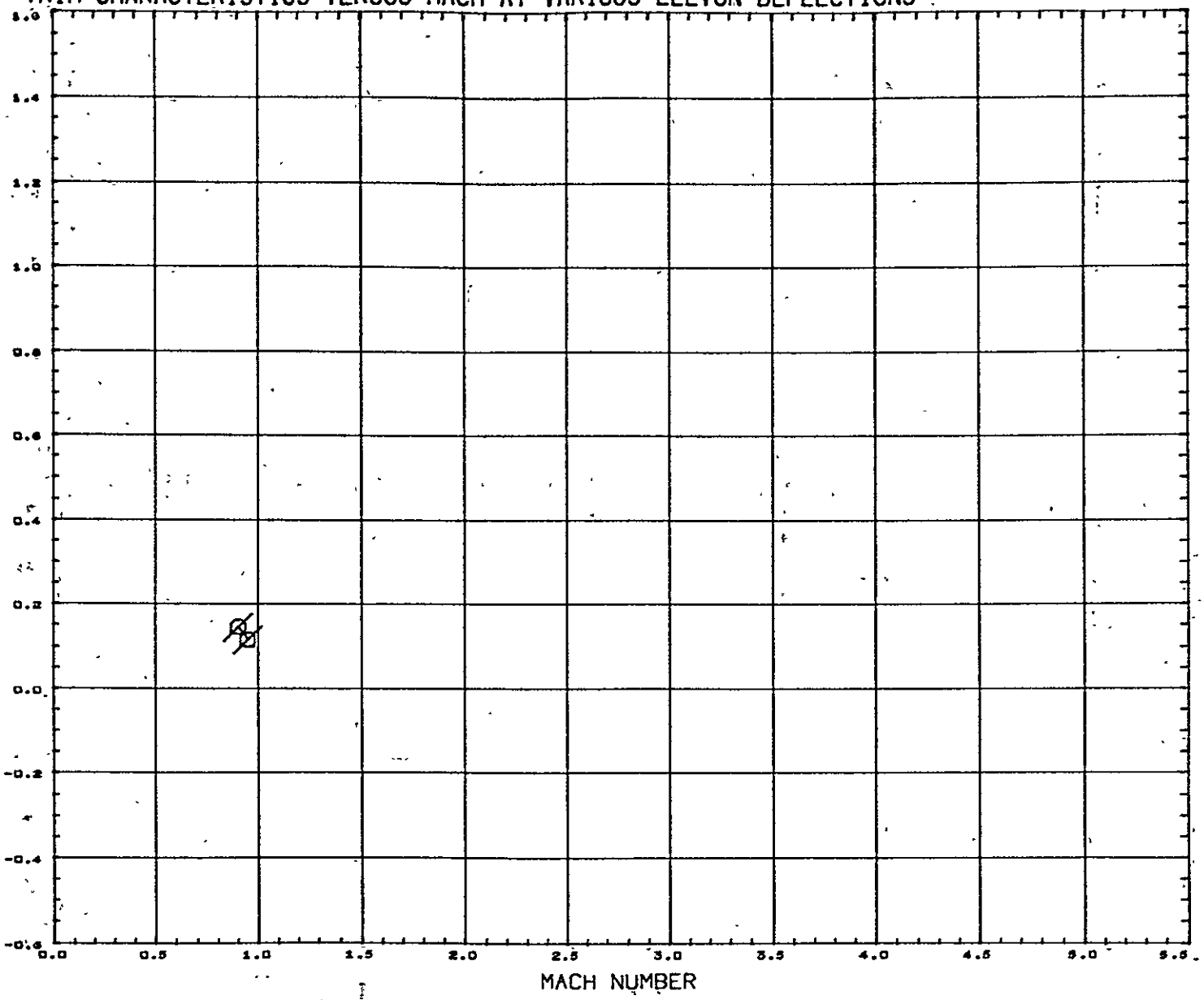
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

BETA	0.000	DEL	0.000
DER	0.000	DCL	0.000
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CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*G1F

REFERENCE INFORMATION

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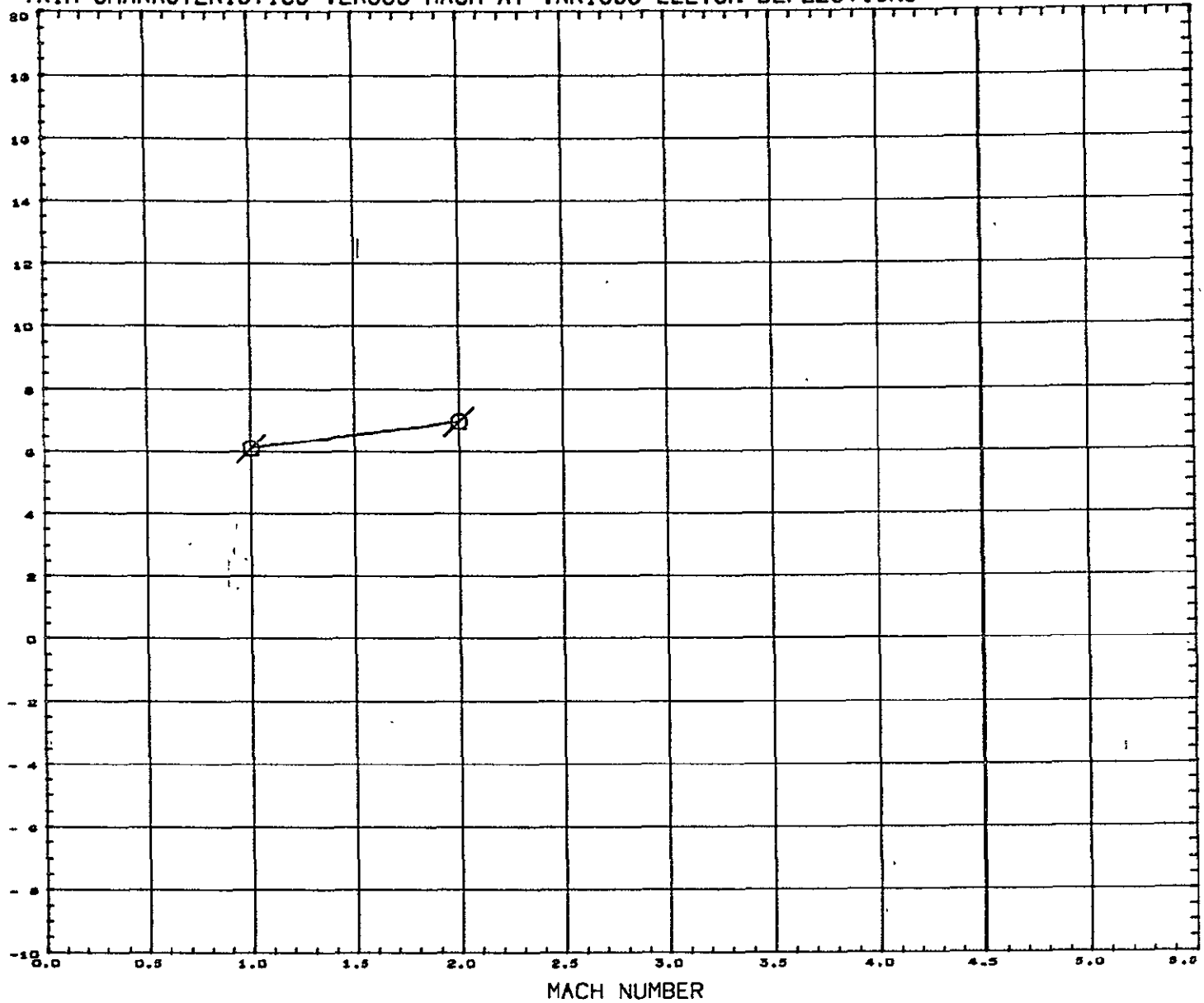
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE HVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
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XMRP	6.7100	IN.
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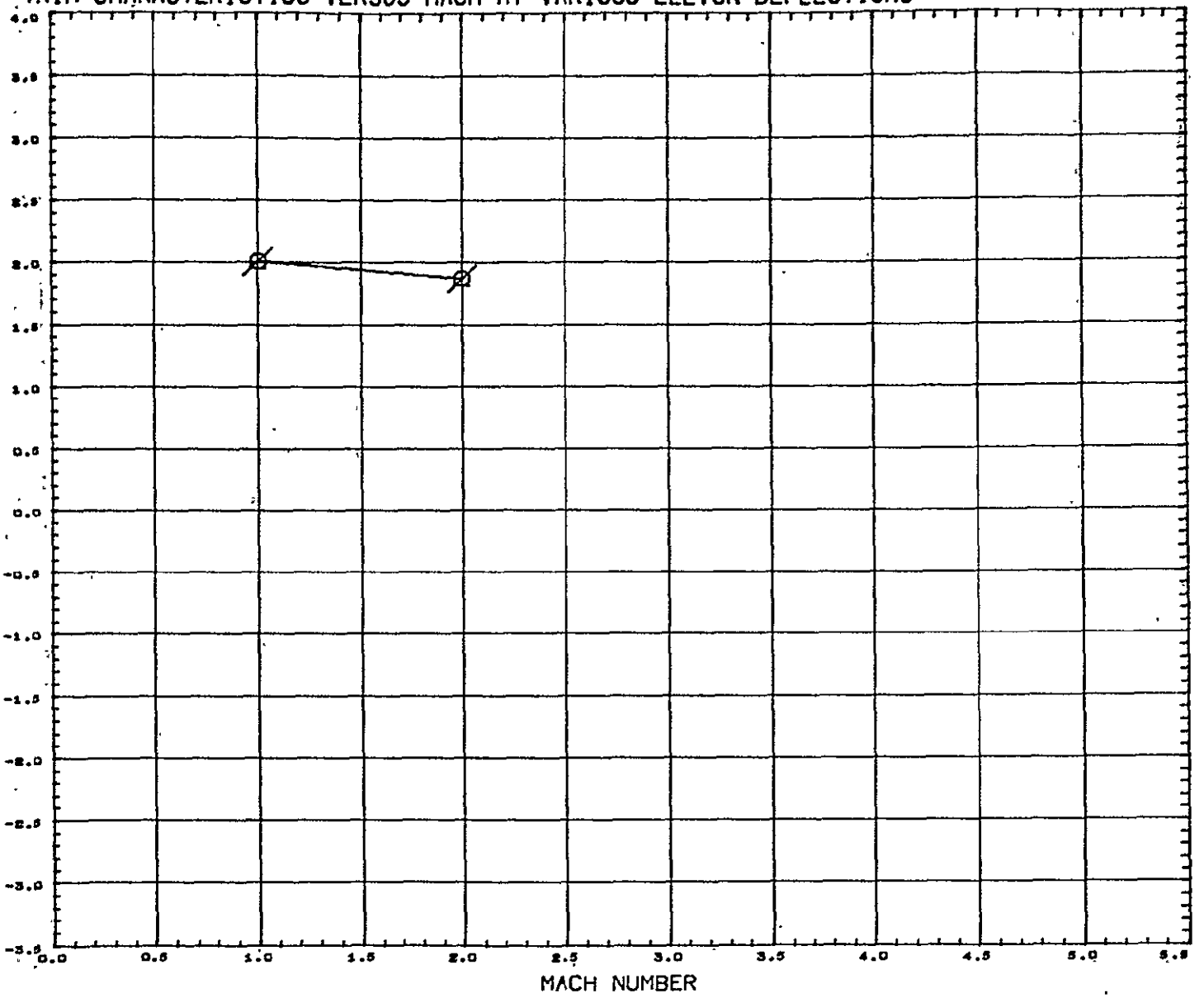
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

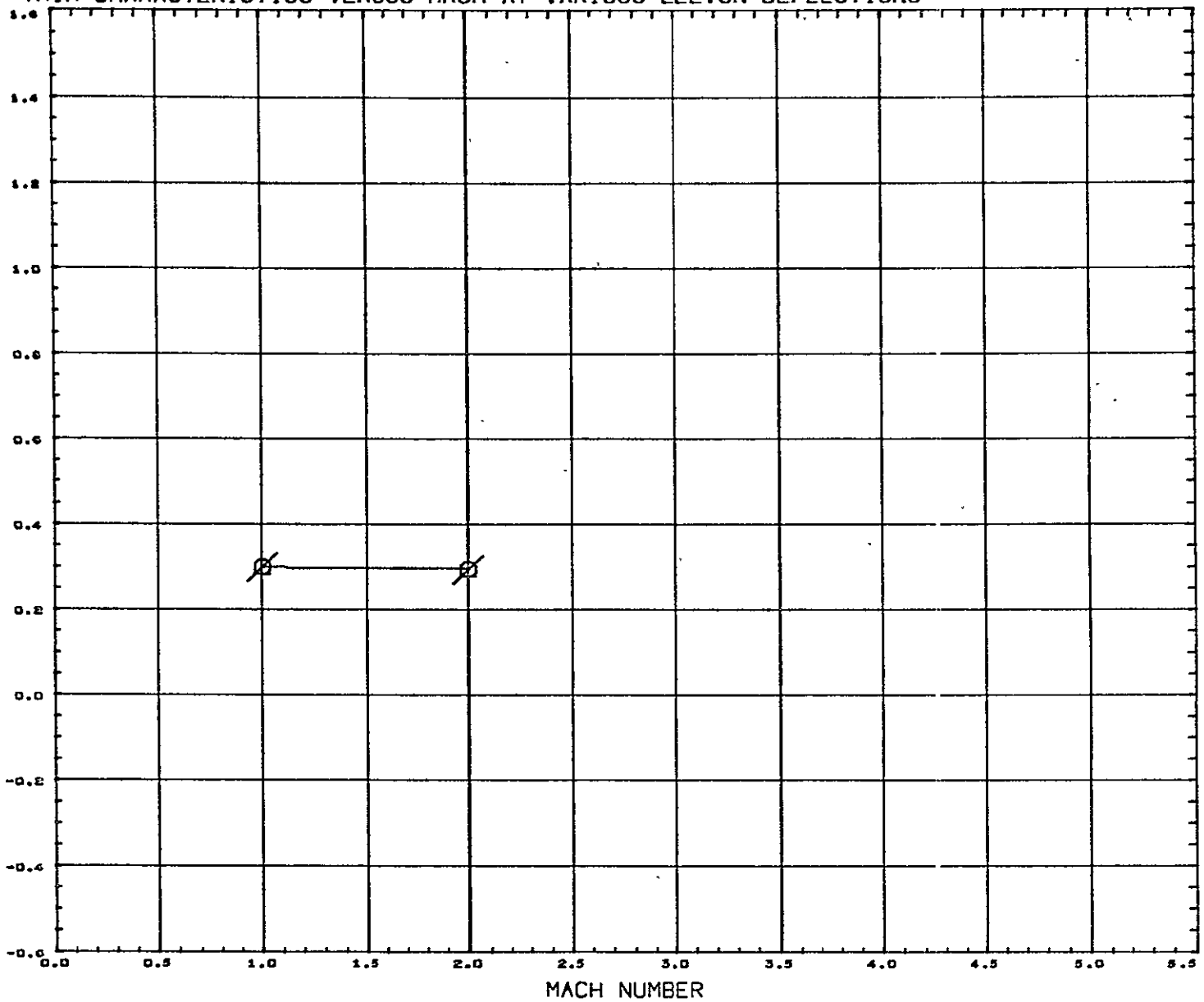
BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE MVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE HVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
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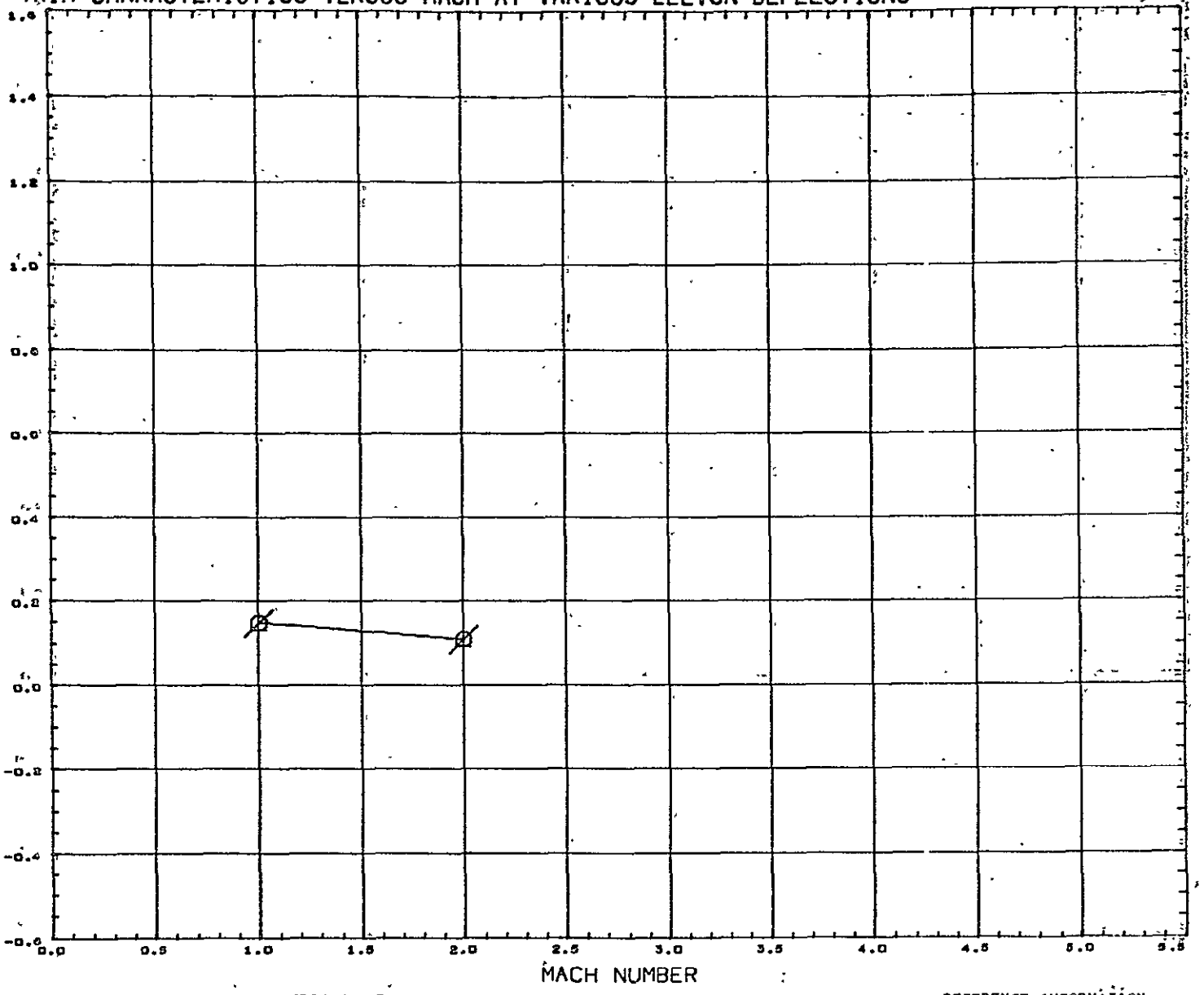
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

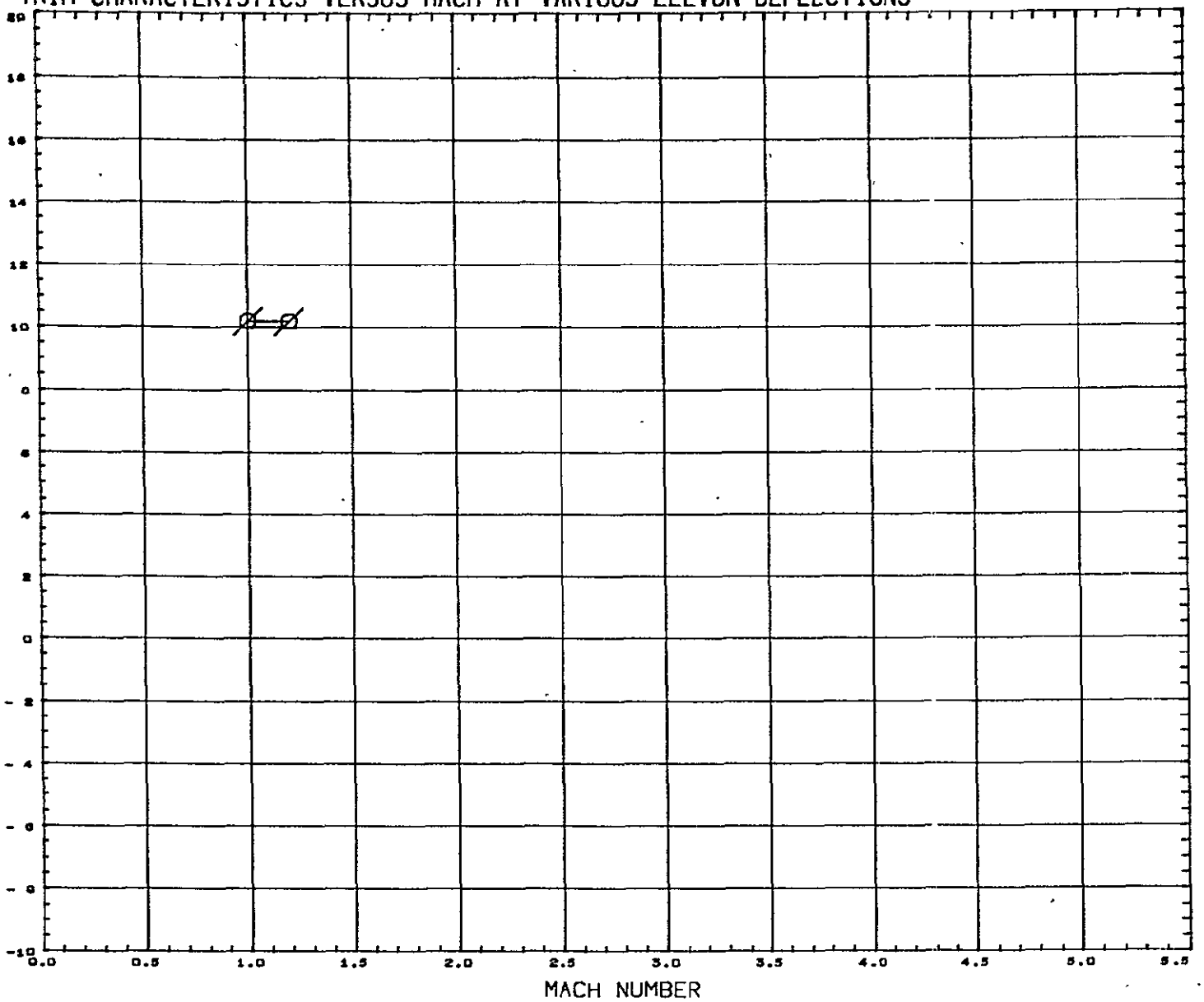
BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE HVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

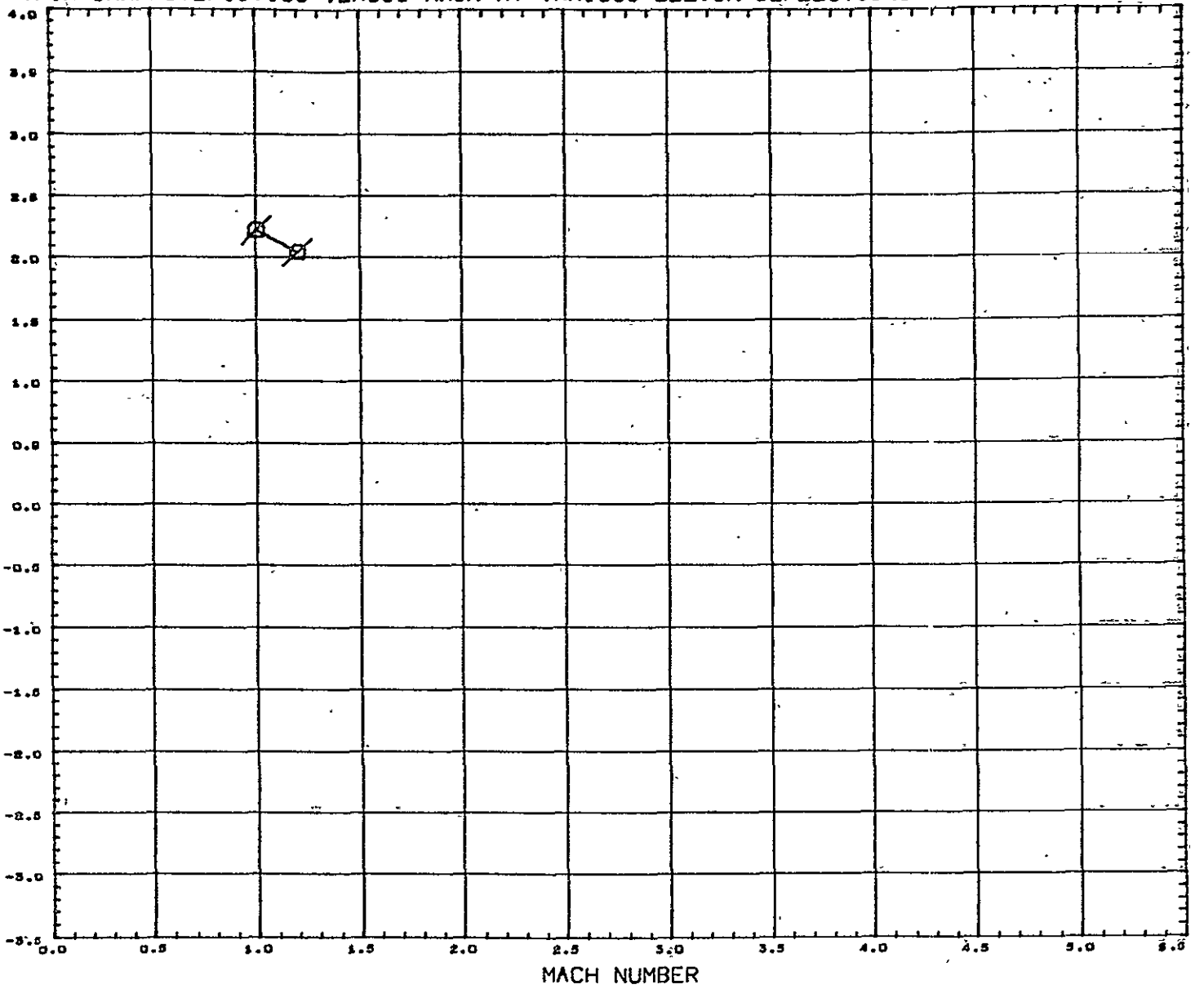
BETA	0.000	DEL	- 20.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

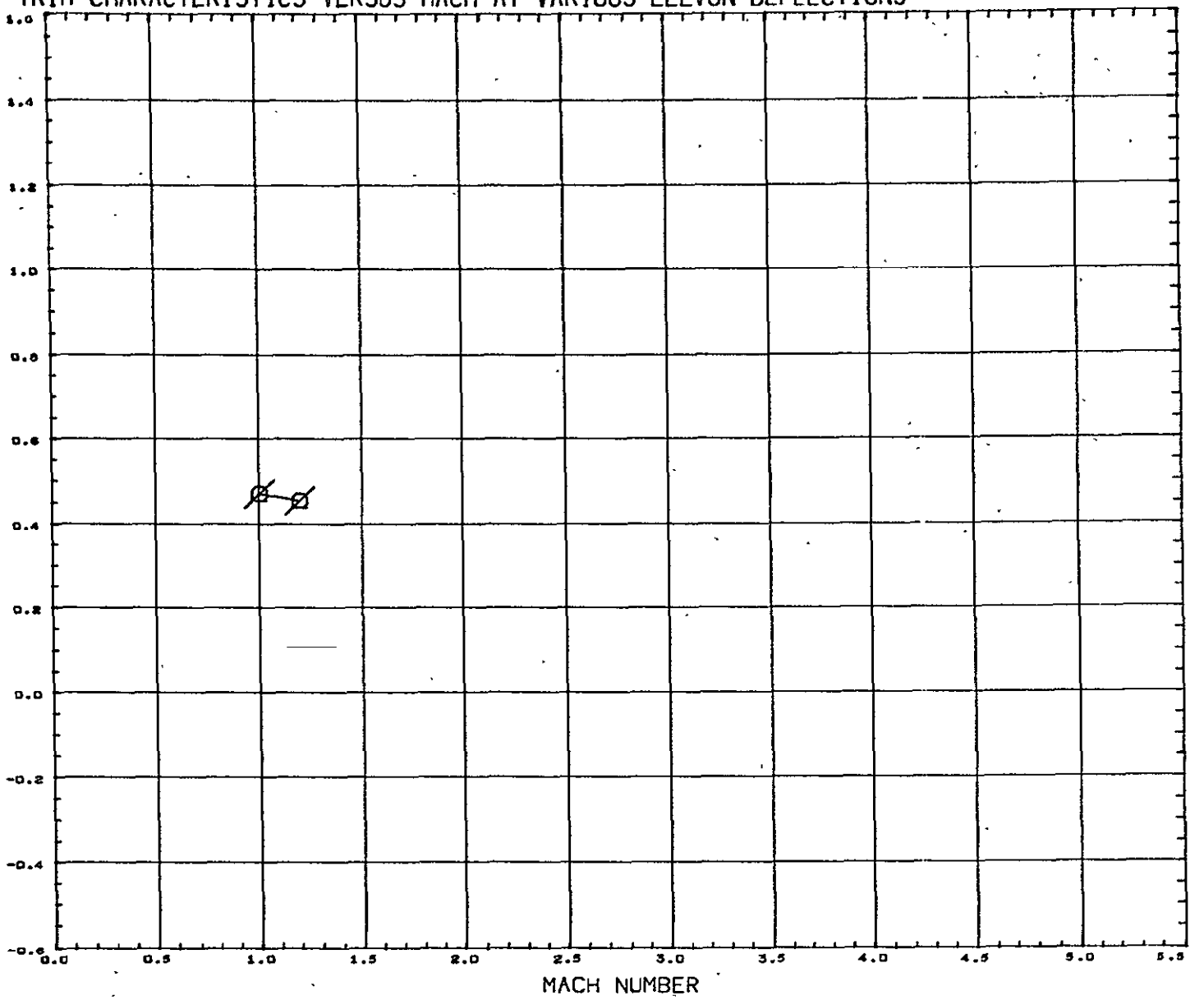
BETA	0.000	DEL	- 20.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0890	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

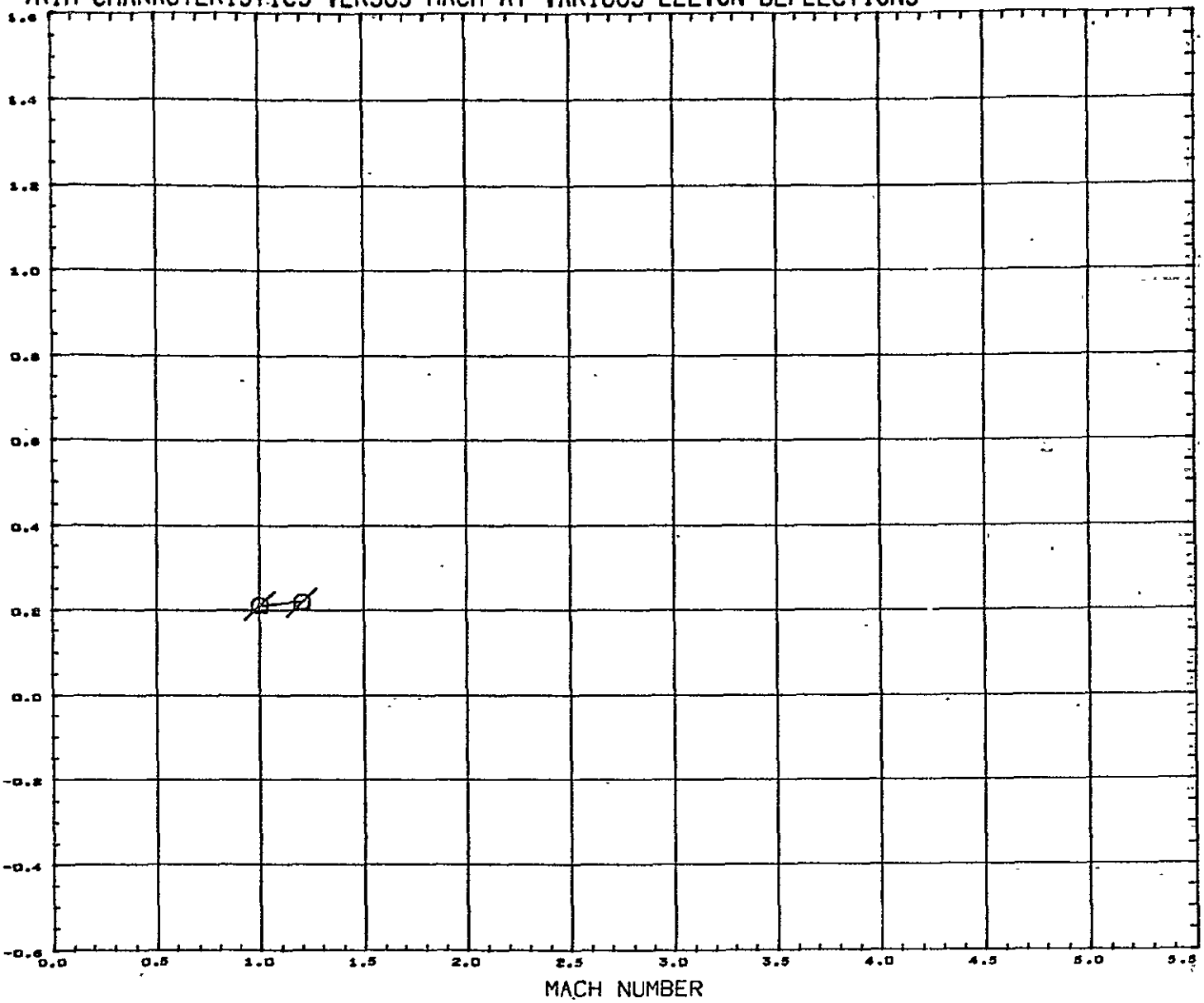
BETA	0.000	DEL	- 20.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

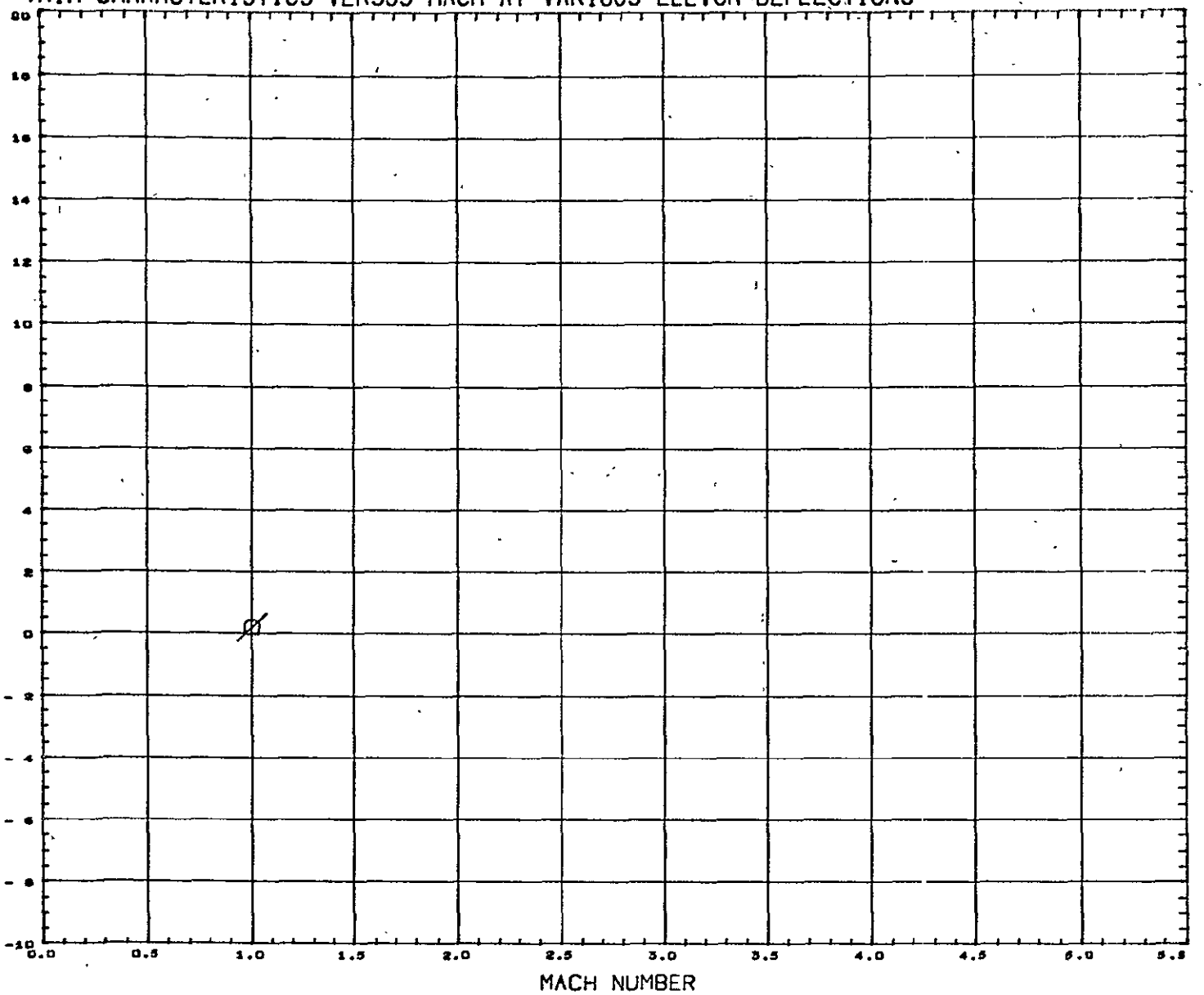
BETA	0.000	DEL	- 20.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

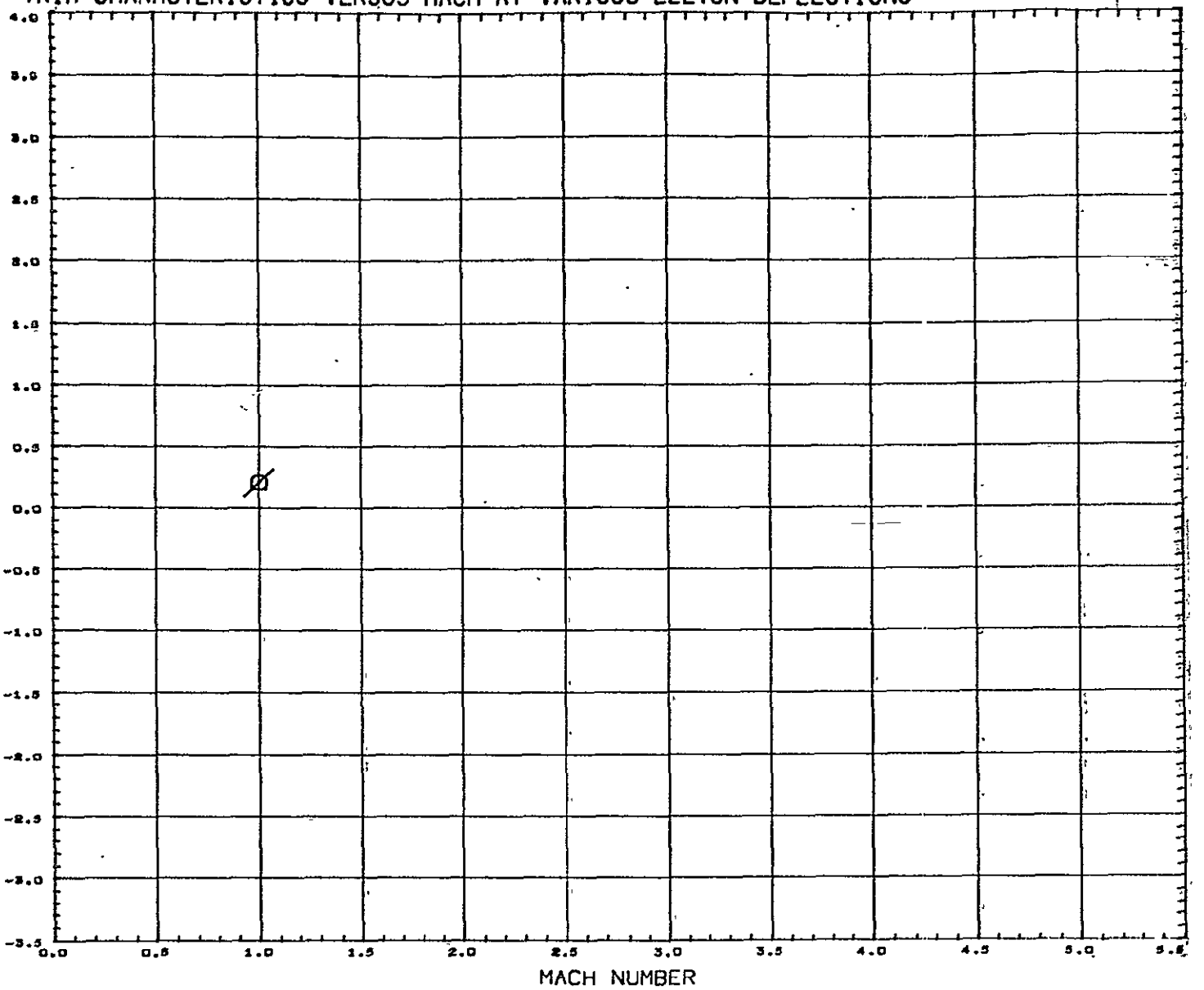
BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE : MVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

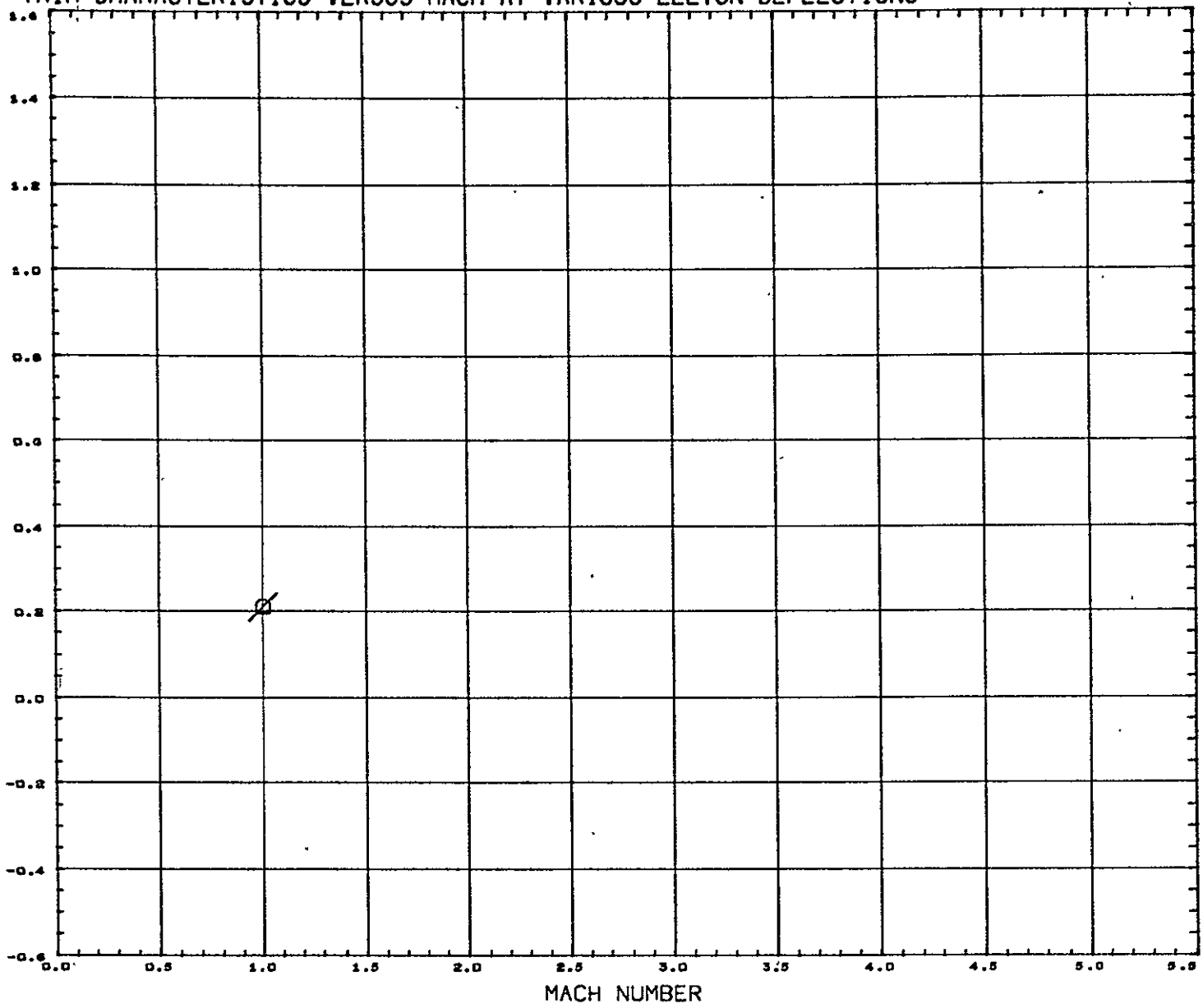
BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

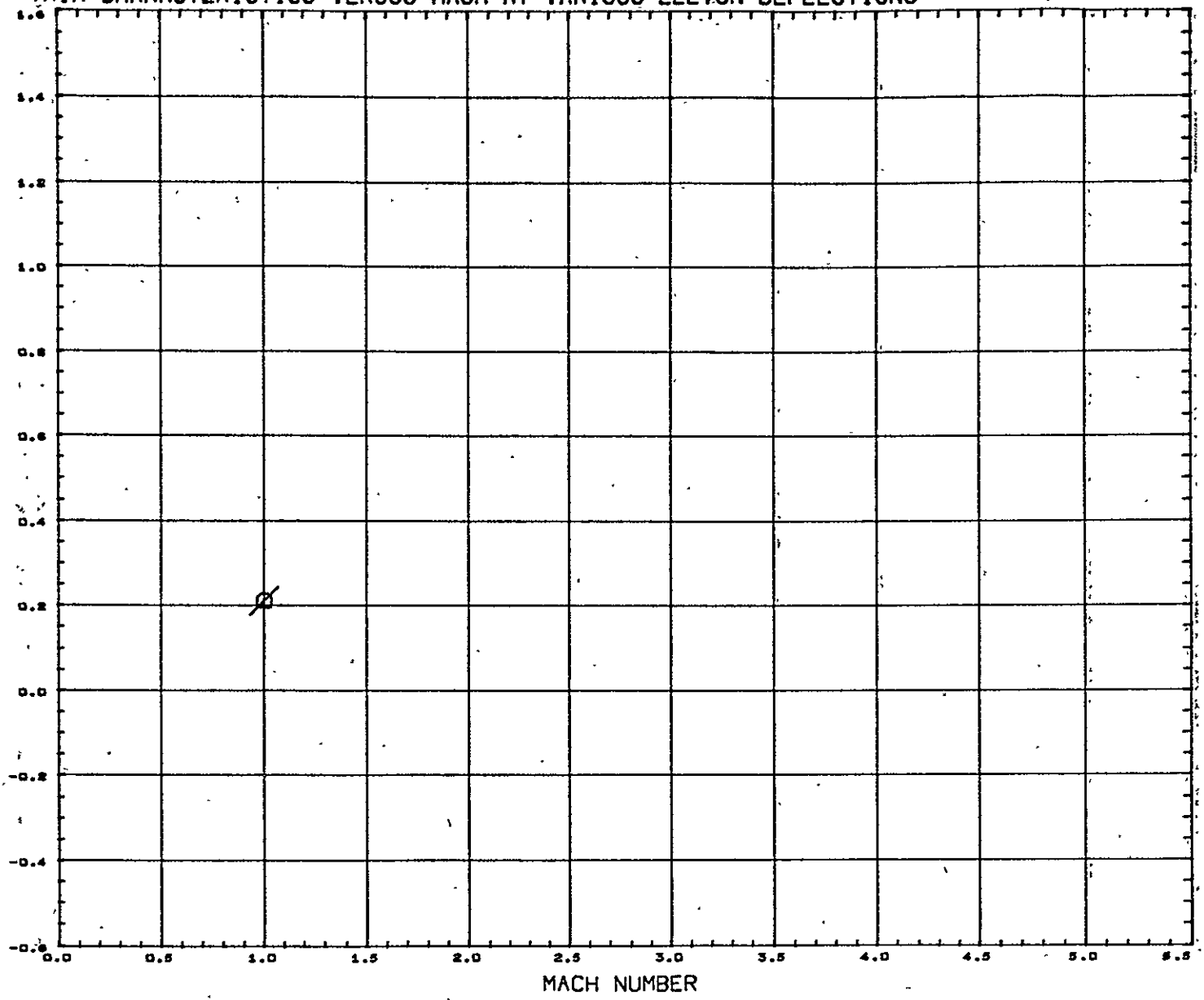
BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

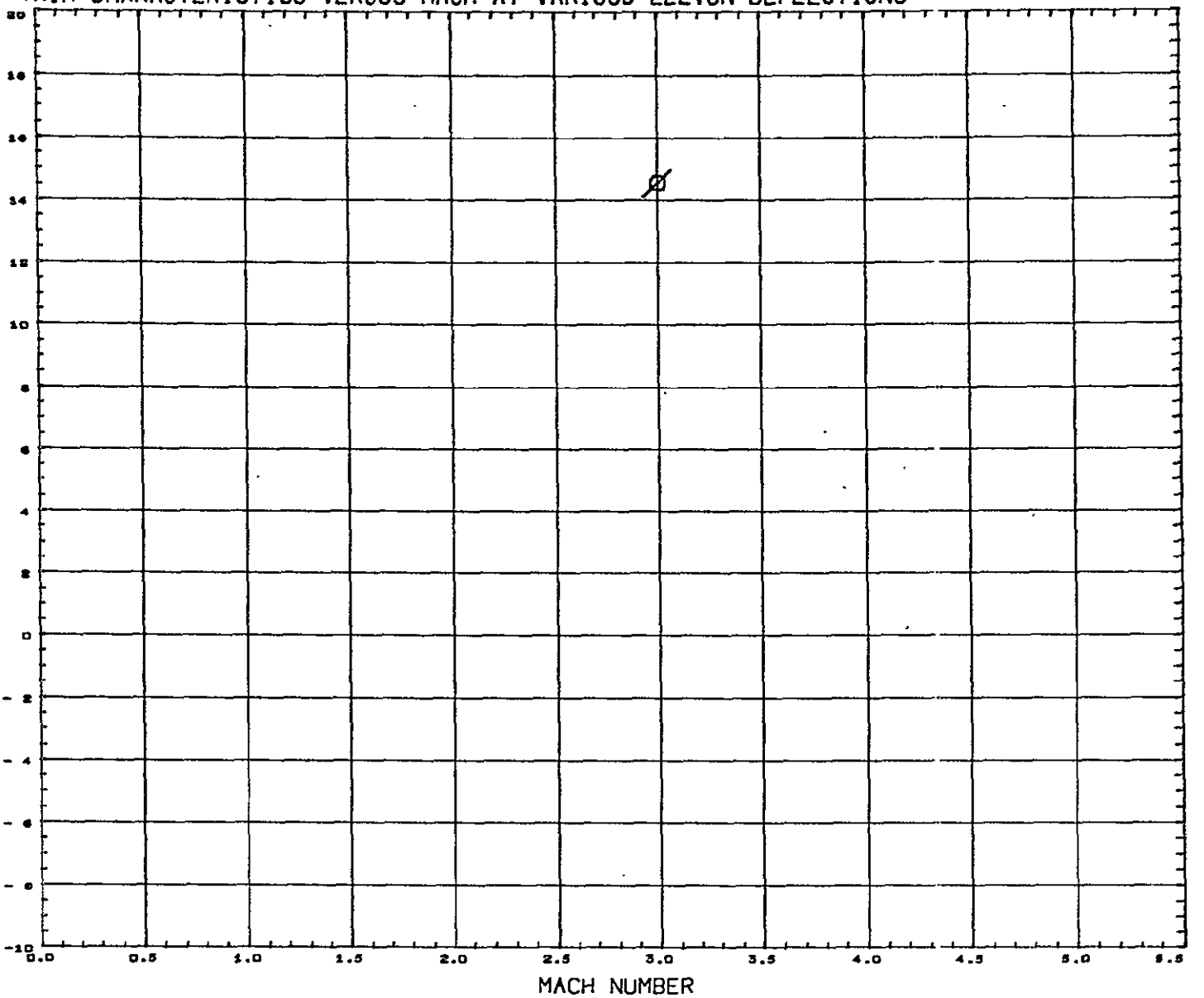
BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

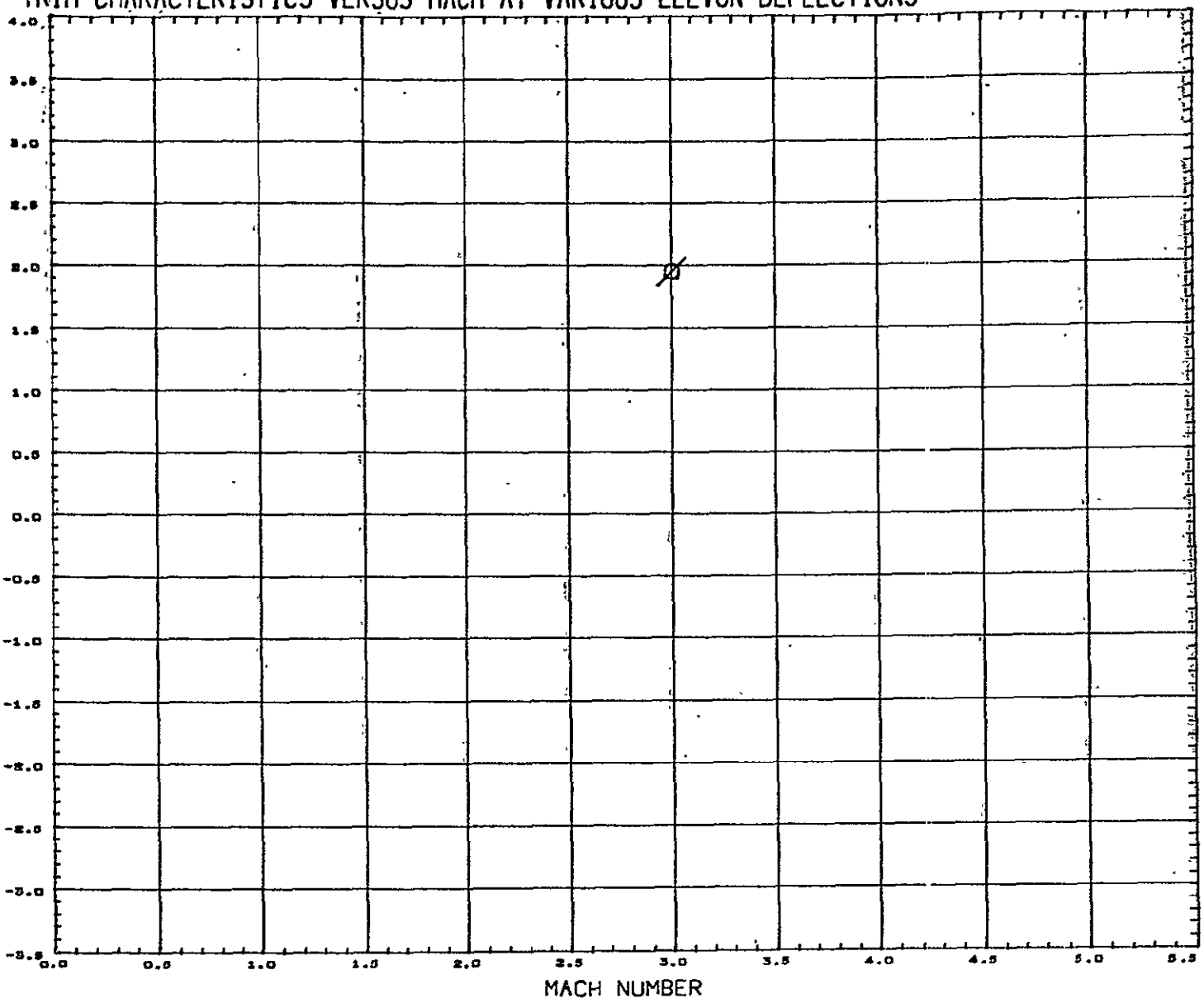
BETA	0.000	DEL	10.000
DER	10.000	DCL	0.000
DCR	0.000	ELEVON	10.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	30.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

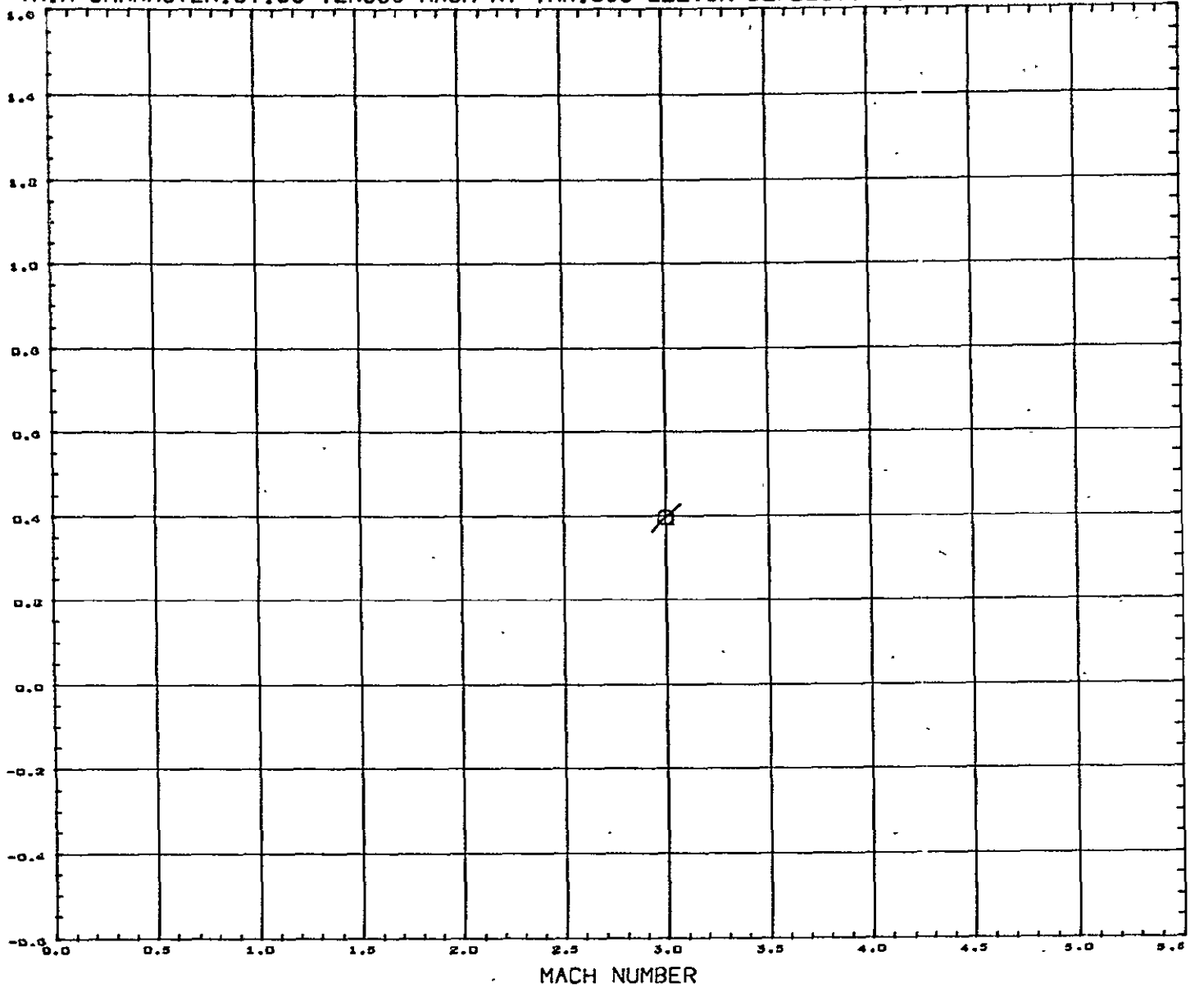
BETA	0.000	DEL	10.000
DER	10.000	DCL	0.000
DCR	0.000	ELEVON	10.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E*G1F

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

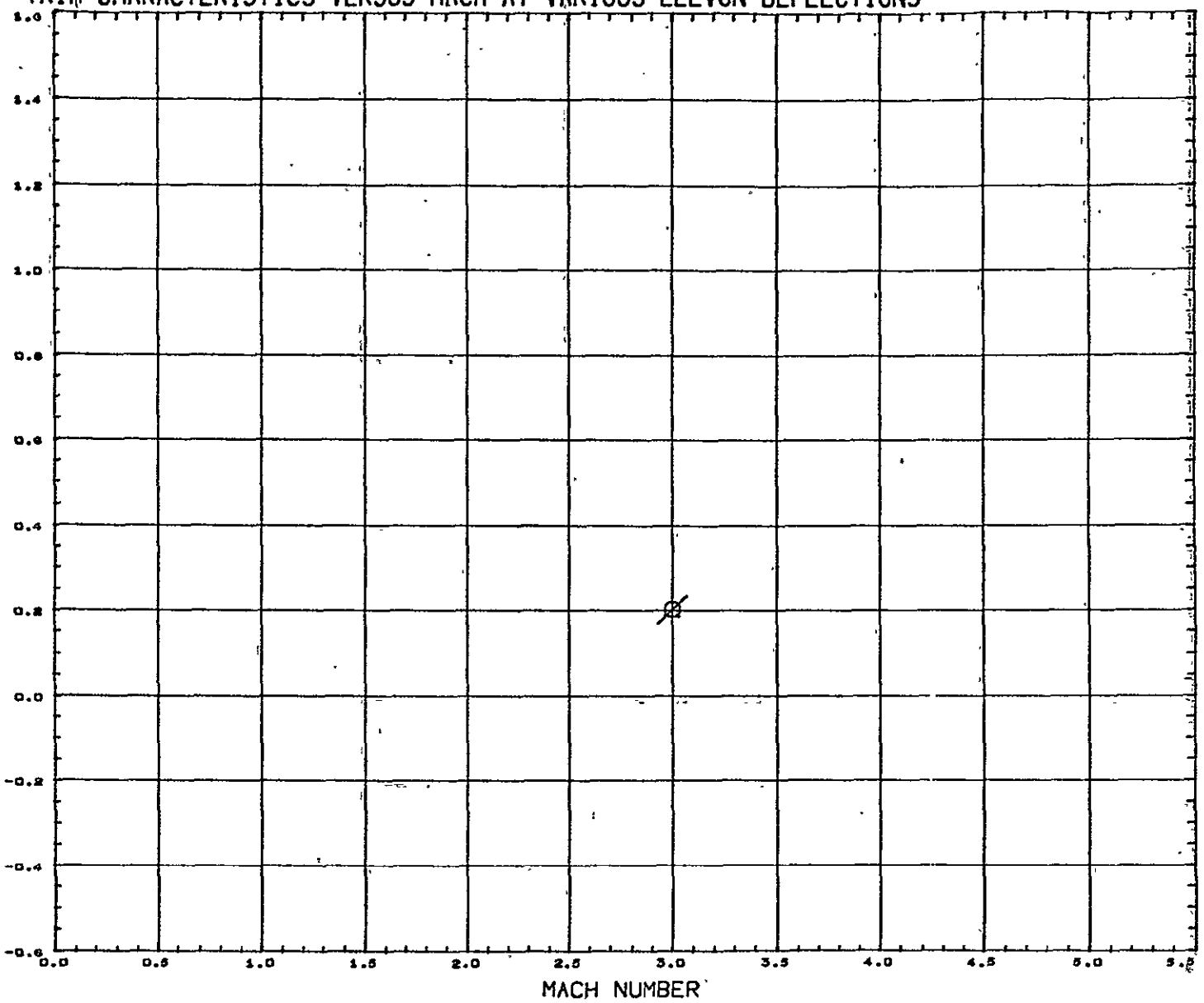
BETA	0.000	DEL	10.000
DER	10.000	DCL	0.000
DCR	0.000	ELEVON	10.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR#E#GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS VERSUS MACH AT VARIOUS ELEVON DEFLECTIONS



PARAMETRIC VALUES

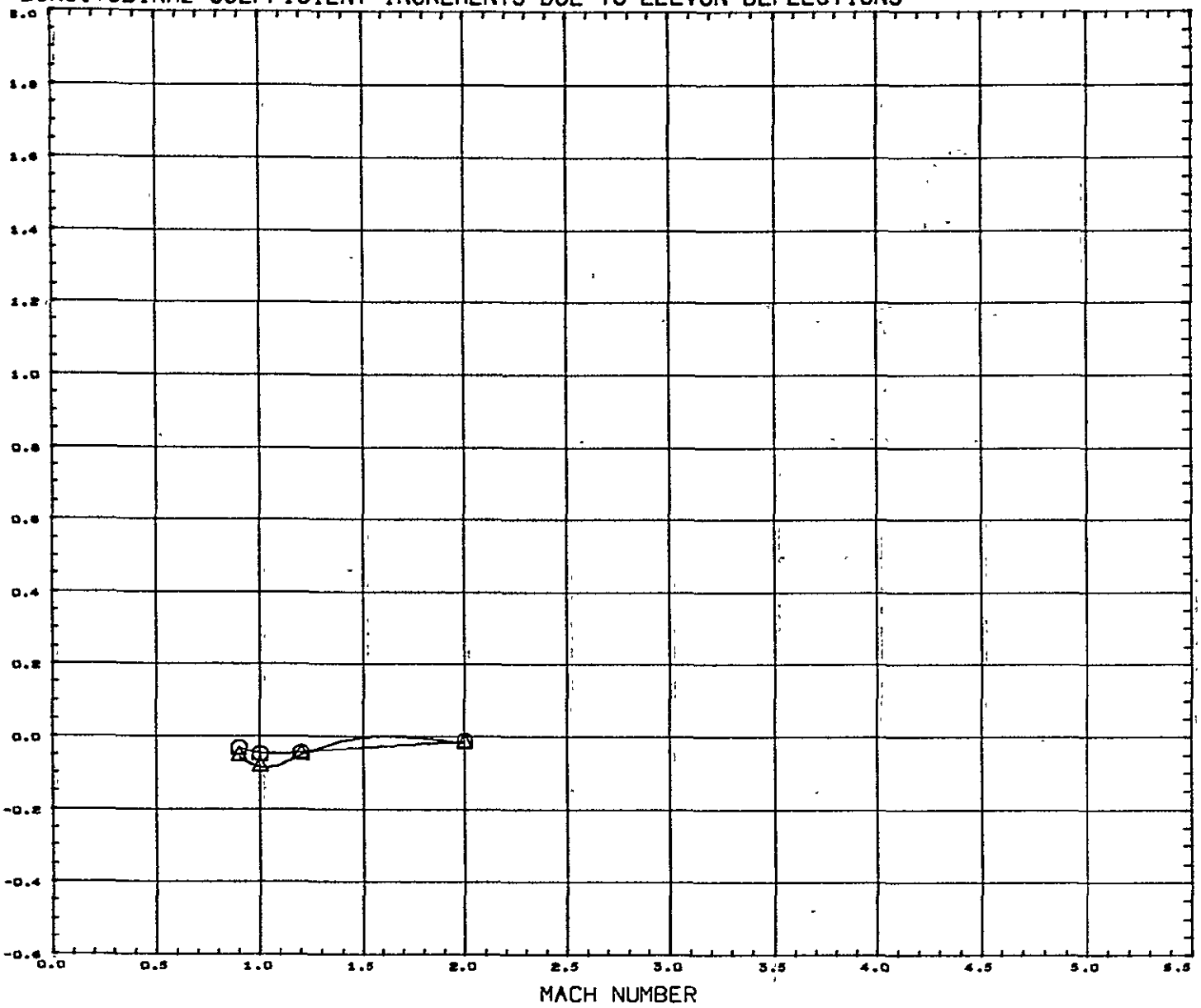
BETA	0.000	DEL	10.000
DER	10.000	DCL	0.000
DCR	0.000	ELEVON	10.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0039	

LONGITUDINAL COEFFICIENT INCREMENTS DUE TO ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

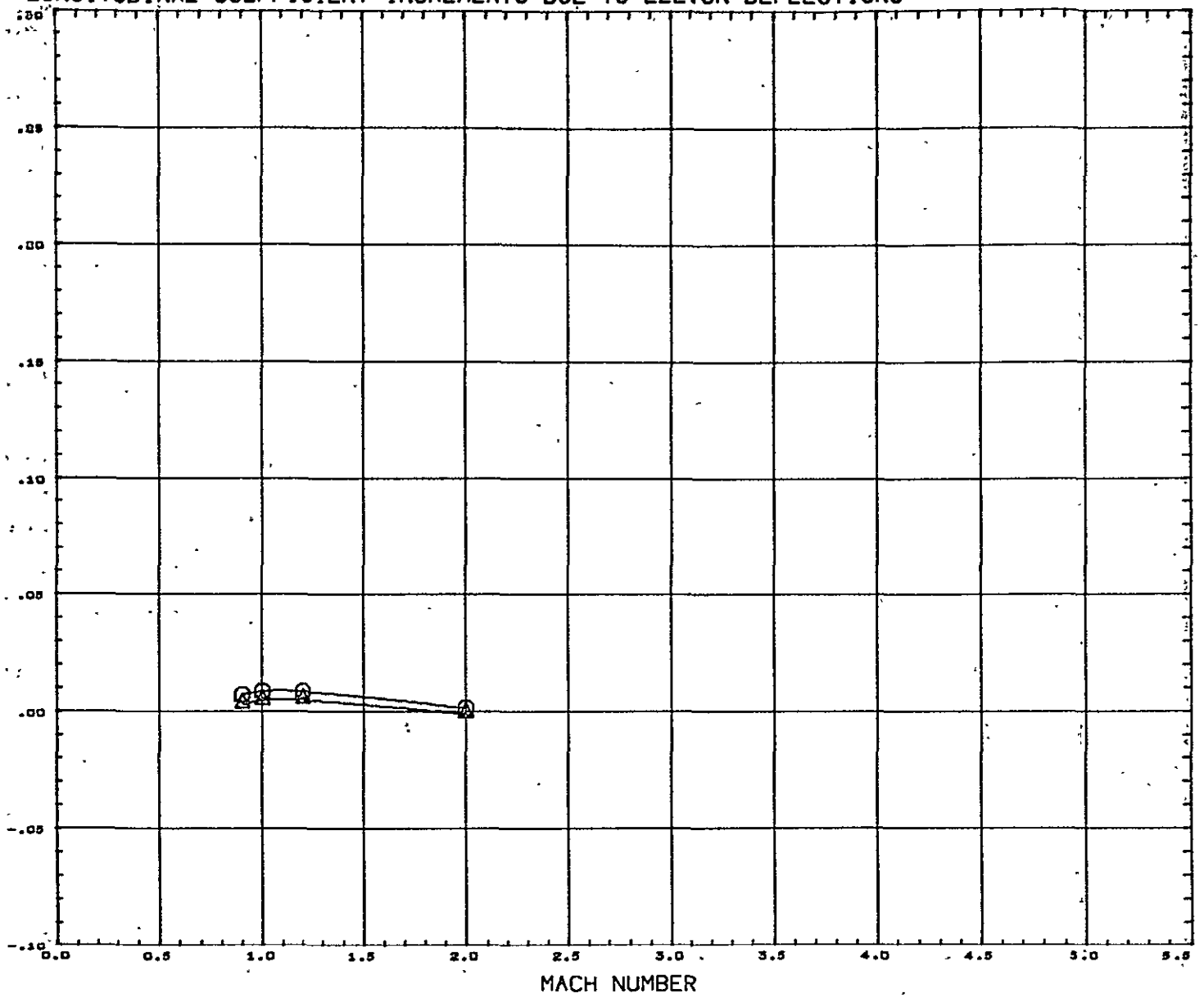
BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE MVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT INCREMENTS DUE TO ELEVON DEFLECTIONS



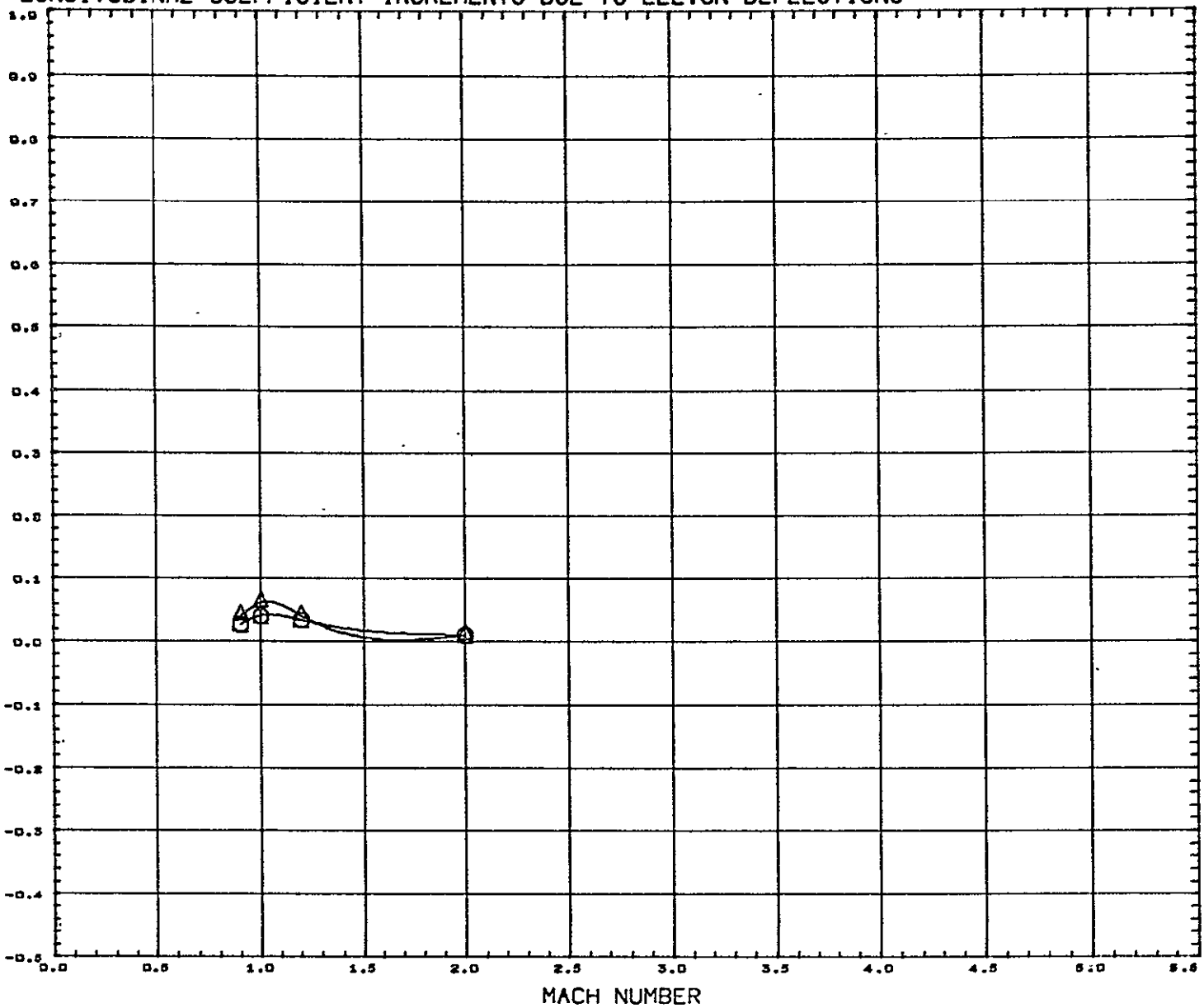
SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	- 20.000	DCL	0.000
		DCR	0.000	ELEVON	- 10.000
		CANARD	0.000	AILRON	10.000

DATA HIST. CODE MVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT INCREMENTS DUE TO ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

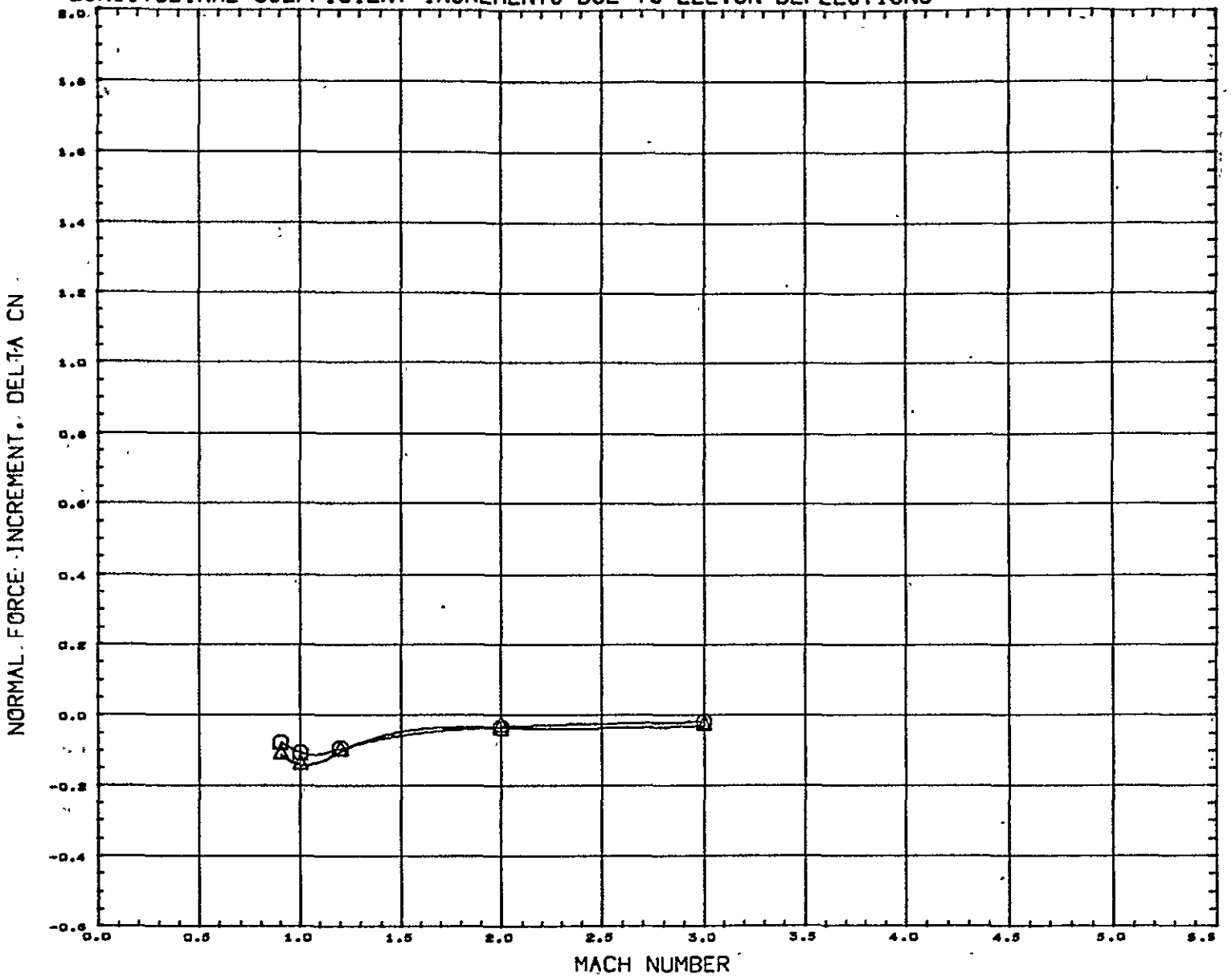
BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT INCREMENTS DUE TO ELEVON DEFLECTIONS



SYMBOL	ALPHA
◇	10.000
△	20.000

PARAMETRIC VALUES

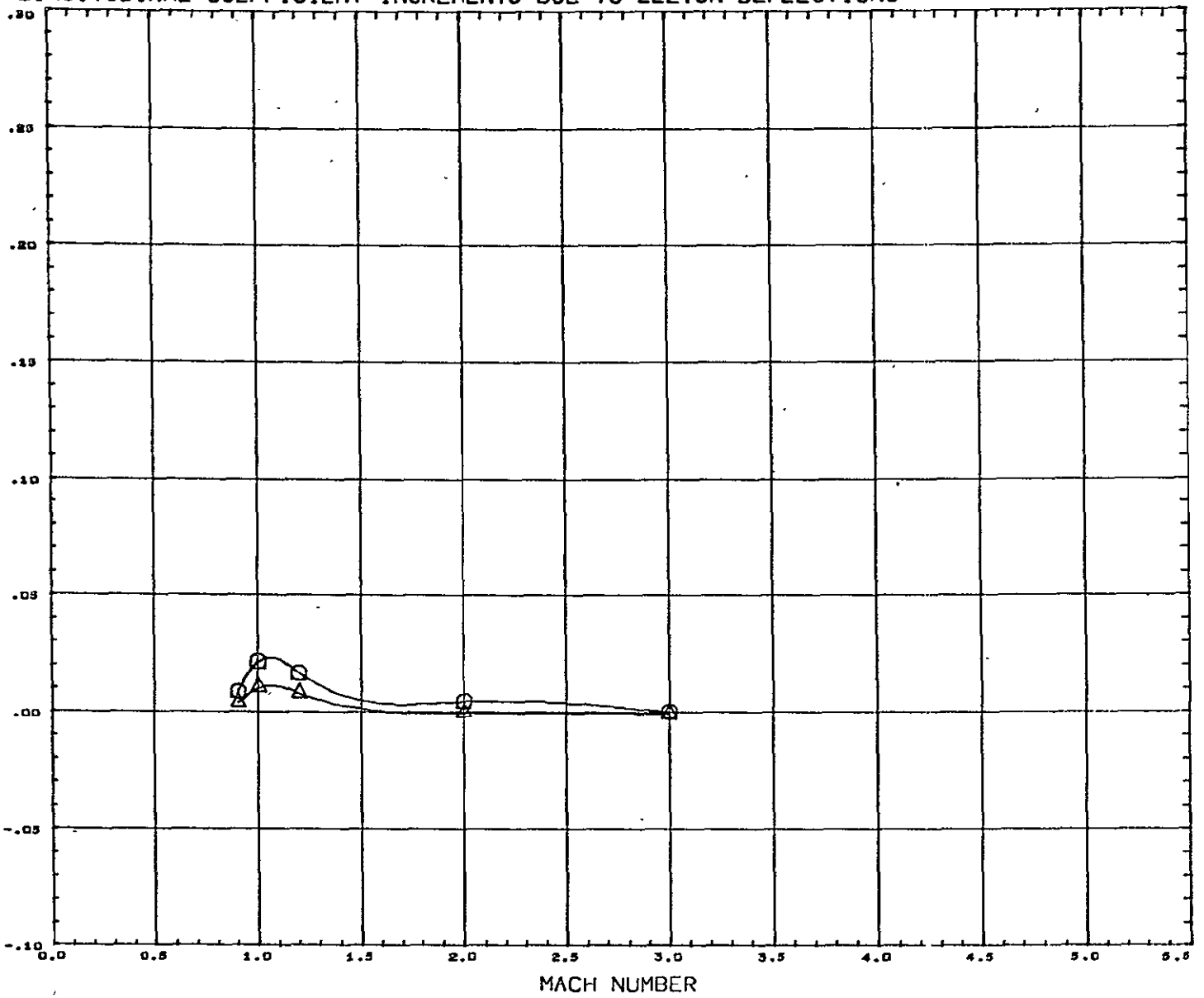
BETA	0.000	DEL	- 20.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT INCREMENTS DUE TO ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

BETA	0.000	DEL	- 20.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

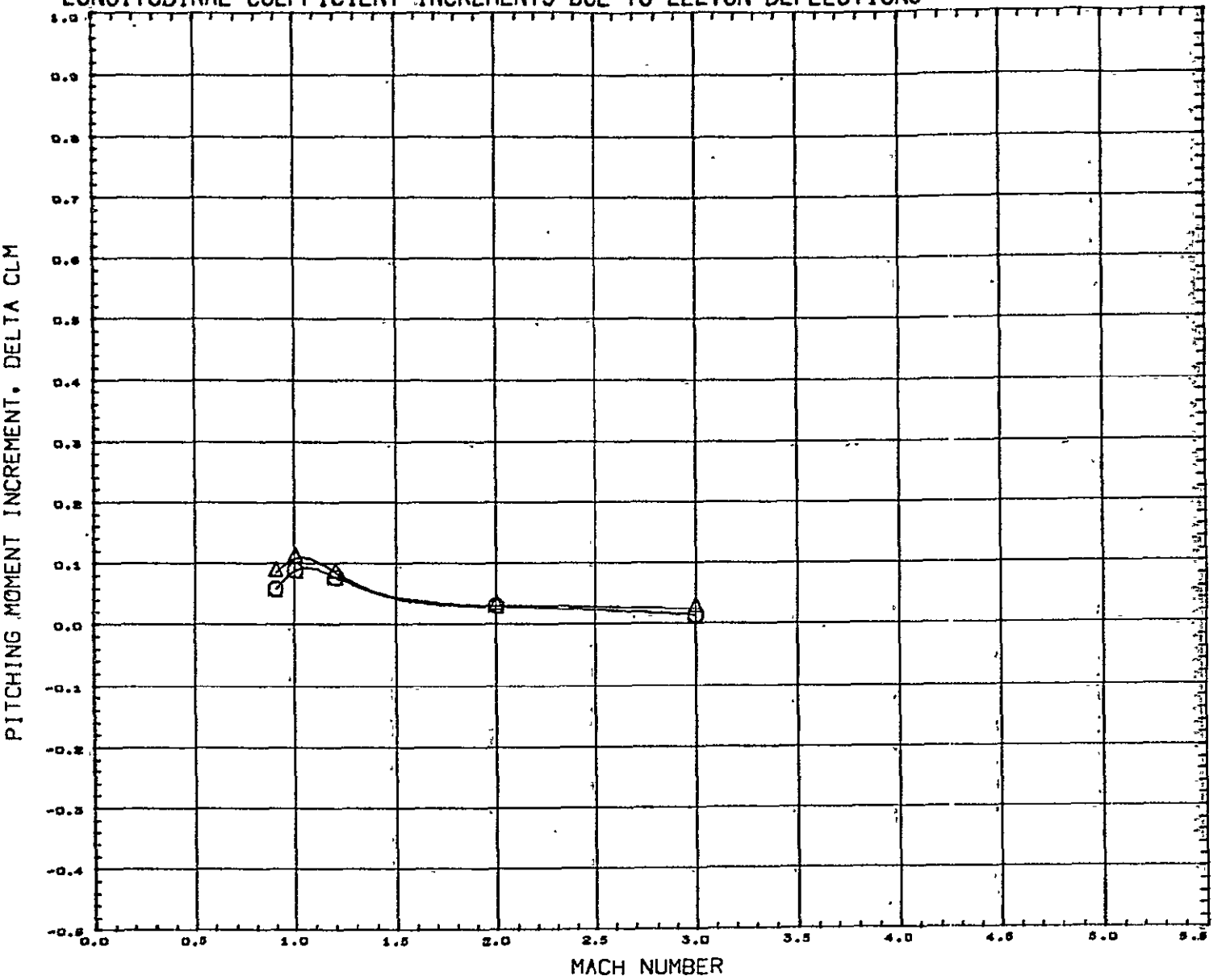
DATA HIST. CODE MVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

A28E71-A28B31 B19W14C4AV7 ELEVON=-20,AILRON=0 (X28102) 01 NOV 71 PAGE 389

LONGITUDINAL COEFFICIENT INCREMENTS DUE TO ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

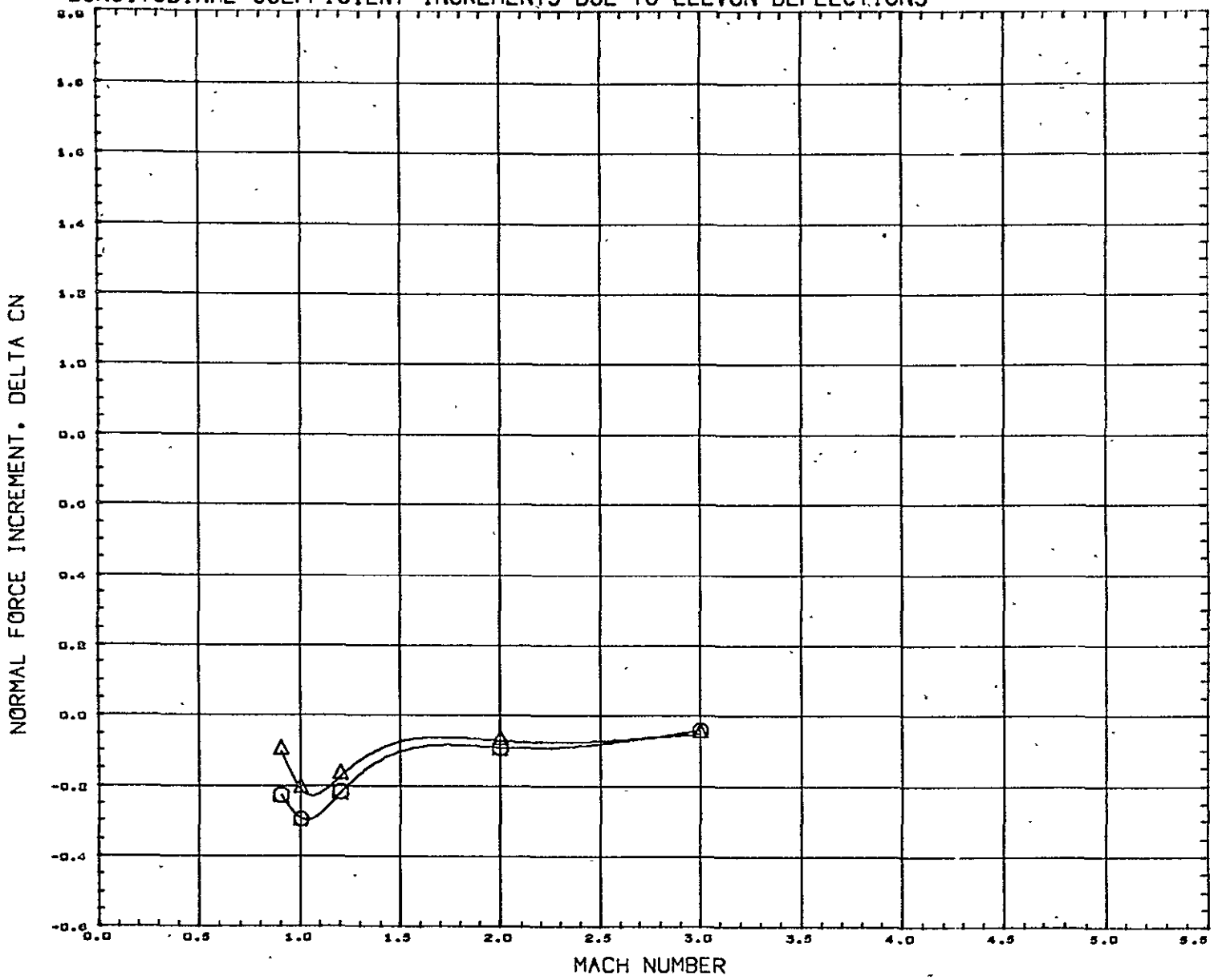
BETA	0.000	DEL	- 20.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 20.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E1*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT INCREMENTS DUE TO ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

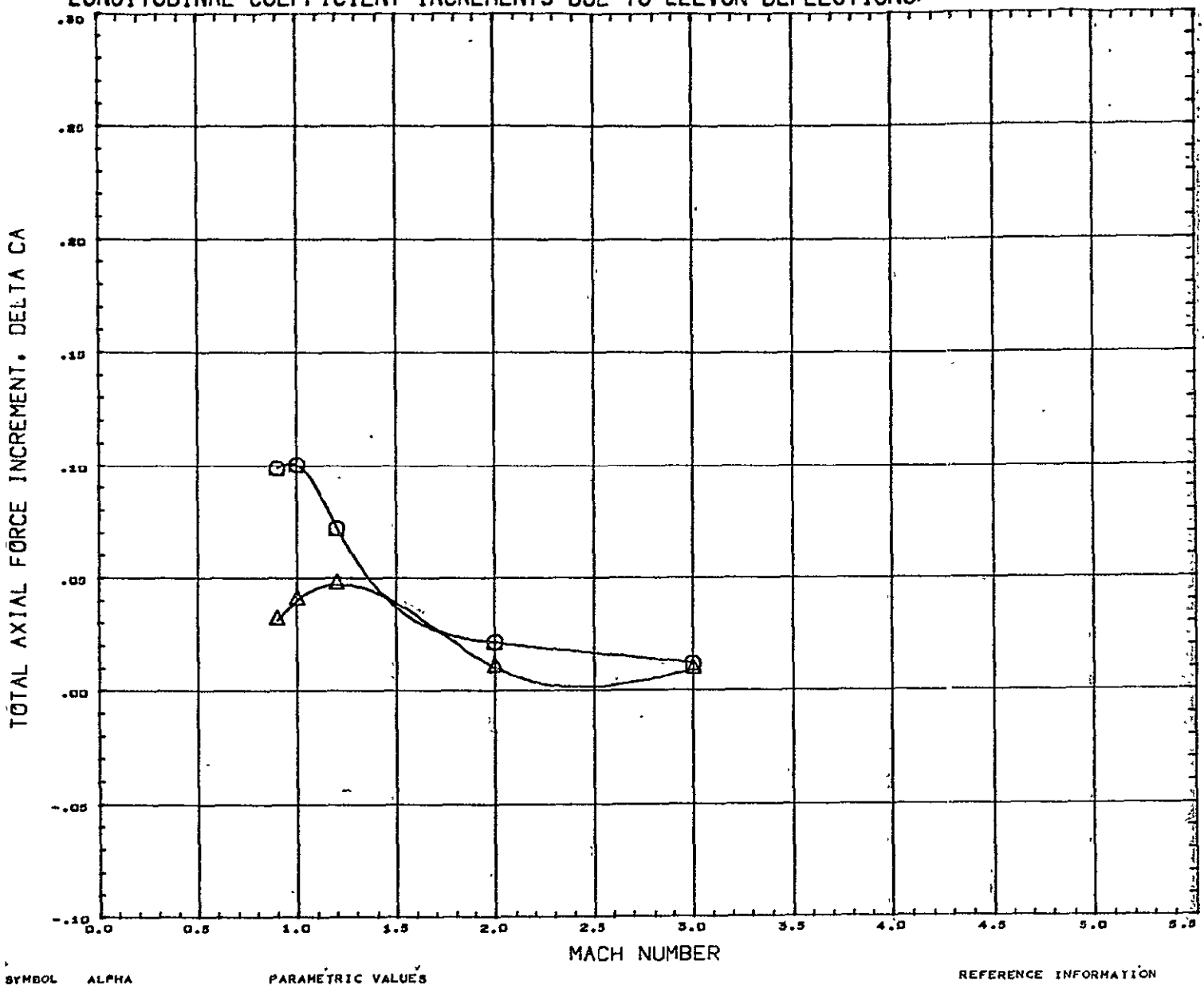
BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	13.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT INCREMENTS DUE TO ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

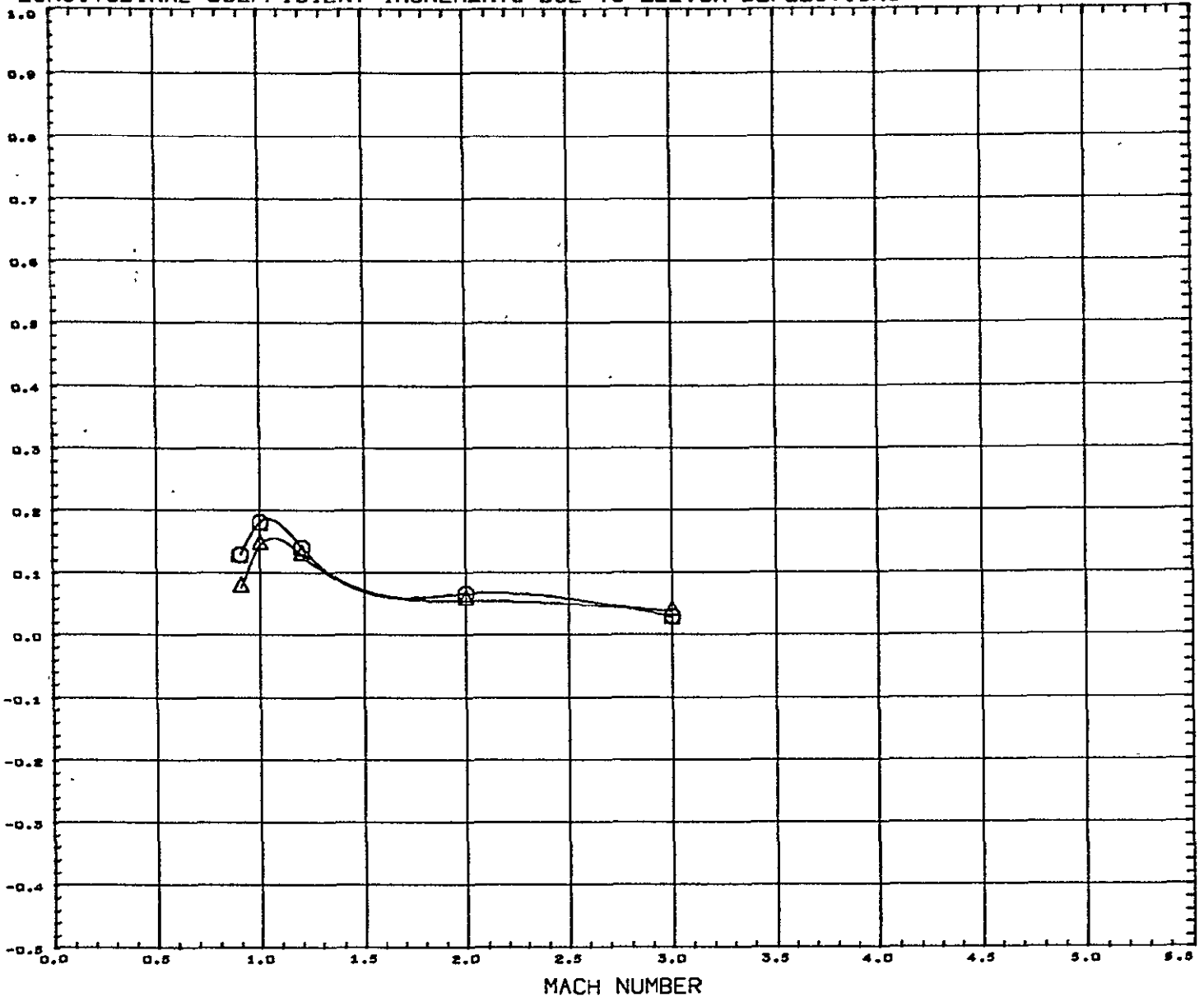
BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT INCREMENTS DUE TO ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

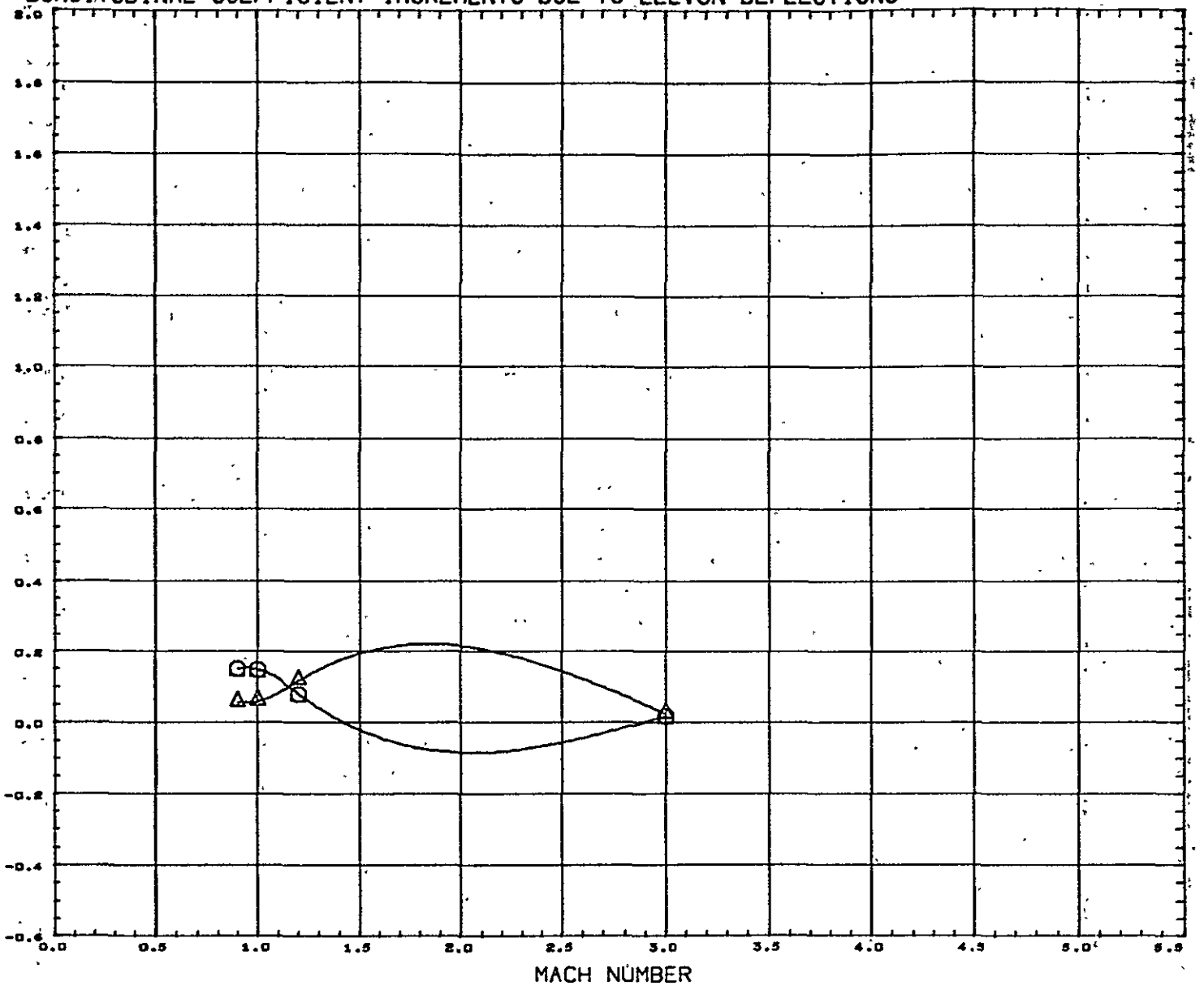
BETA	0.000	DEL	- 60.000
DER	- 60.000	DCL	0.000
DCR	0.000	ELEVON	- 60.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT INCREMENTS DUE TO ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

BETA	0.000	DEL	10.000
DER	10.000	DCL	0.000
DCR	0.000	ELEVON	10.000
CANARD	0.000	AILRON	0.000

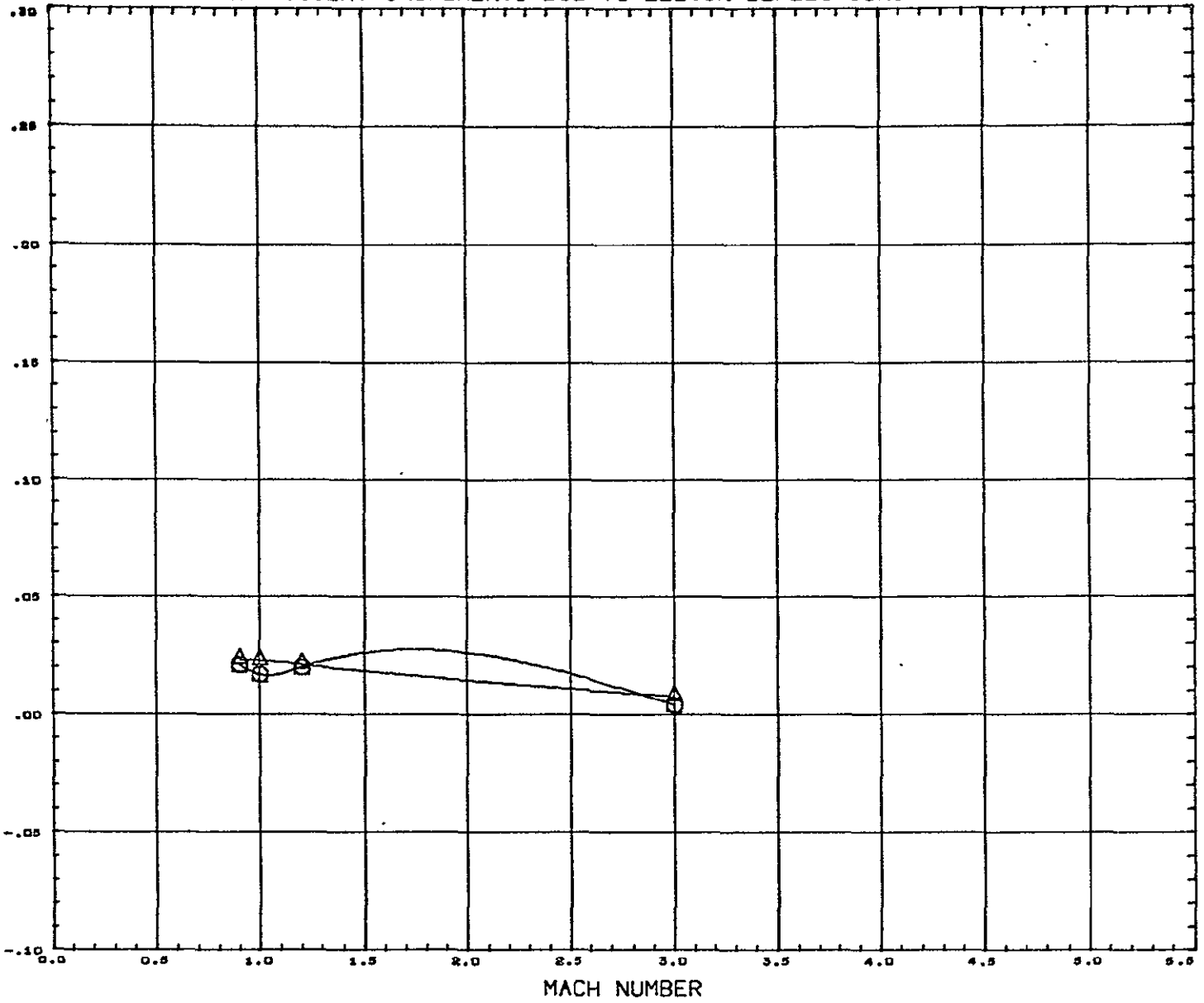
DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

A28E77-A28B31 B19W14C4AV7 ELEVON= 10, AILRON=0 (X28104) 01 NOV 71 PAGE 394

LONGITUDINAL COEFFICIENT INCREMENTS DUE TO ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

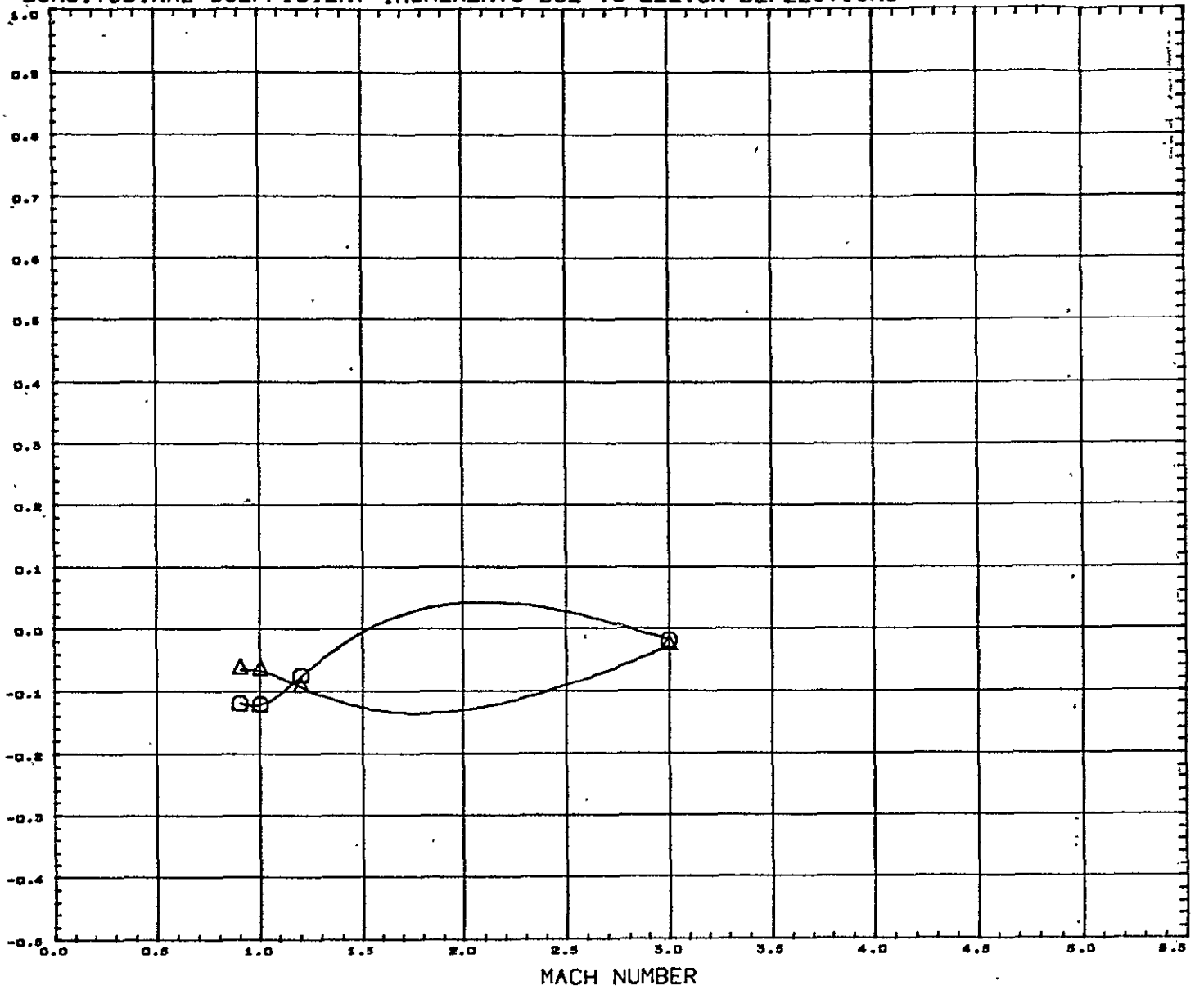
BETA	0.000	DEL	10.000
DER	10.000	DCL	0.000
DCR	0.000	ELEVON	10.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT INCREMENTS DUE TO ELEVON DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

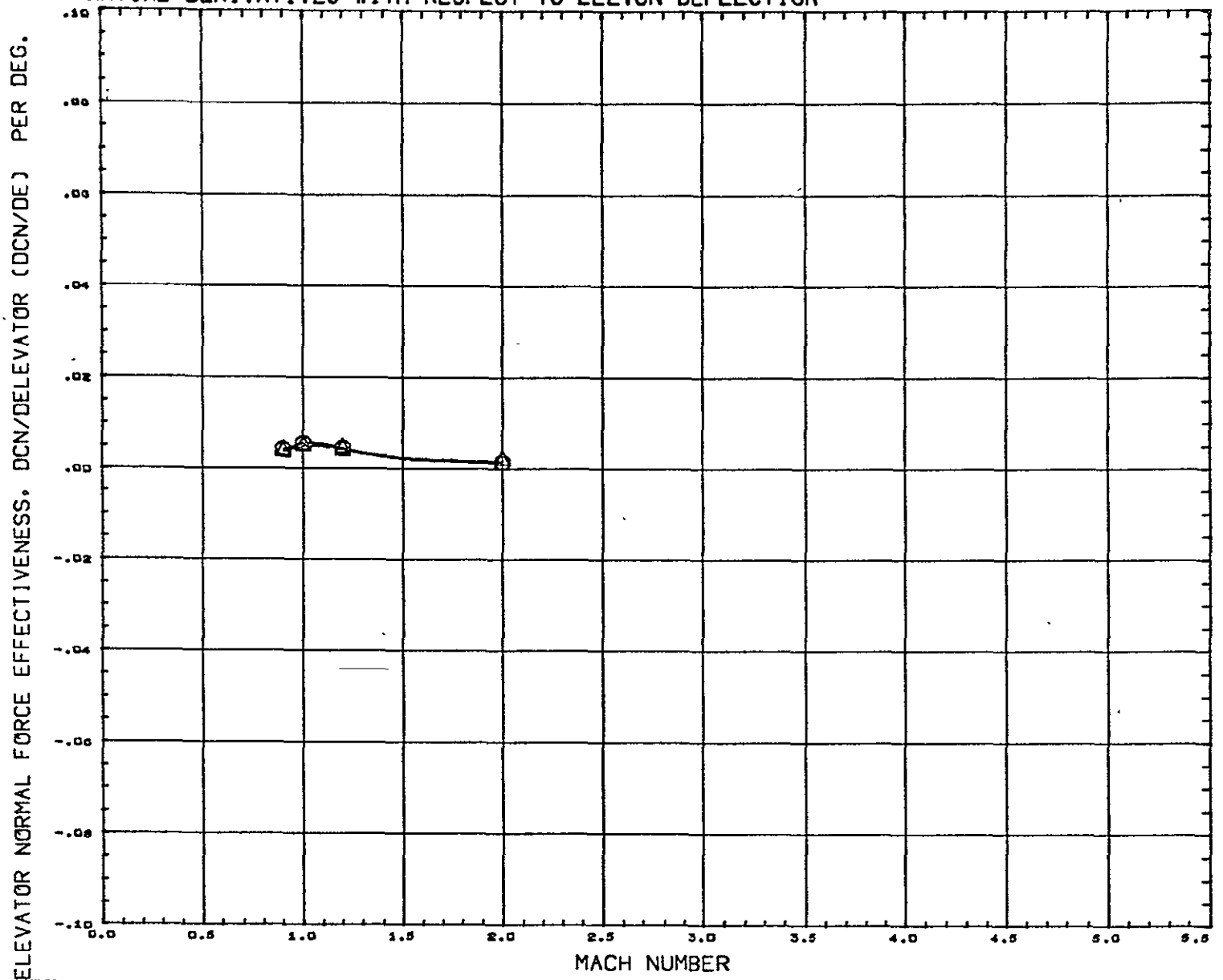
BETA	0.000	DEL	10.000
DER	10.000	DCL	0.000
DCR	0.000	ELEVON	10.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

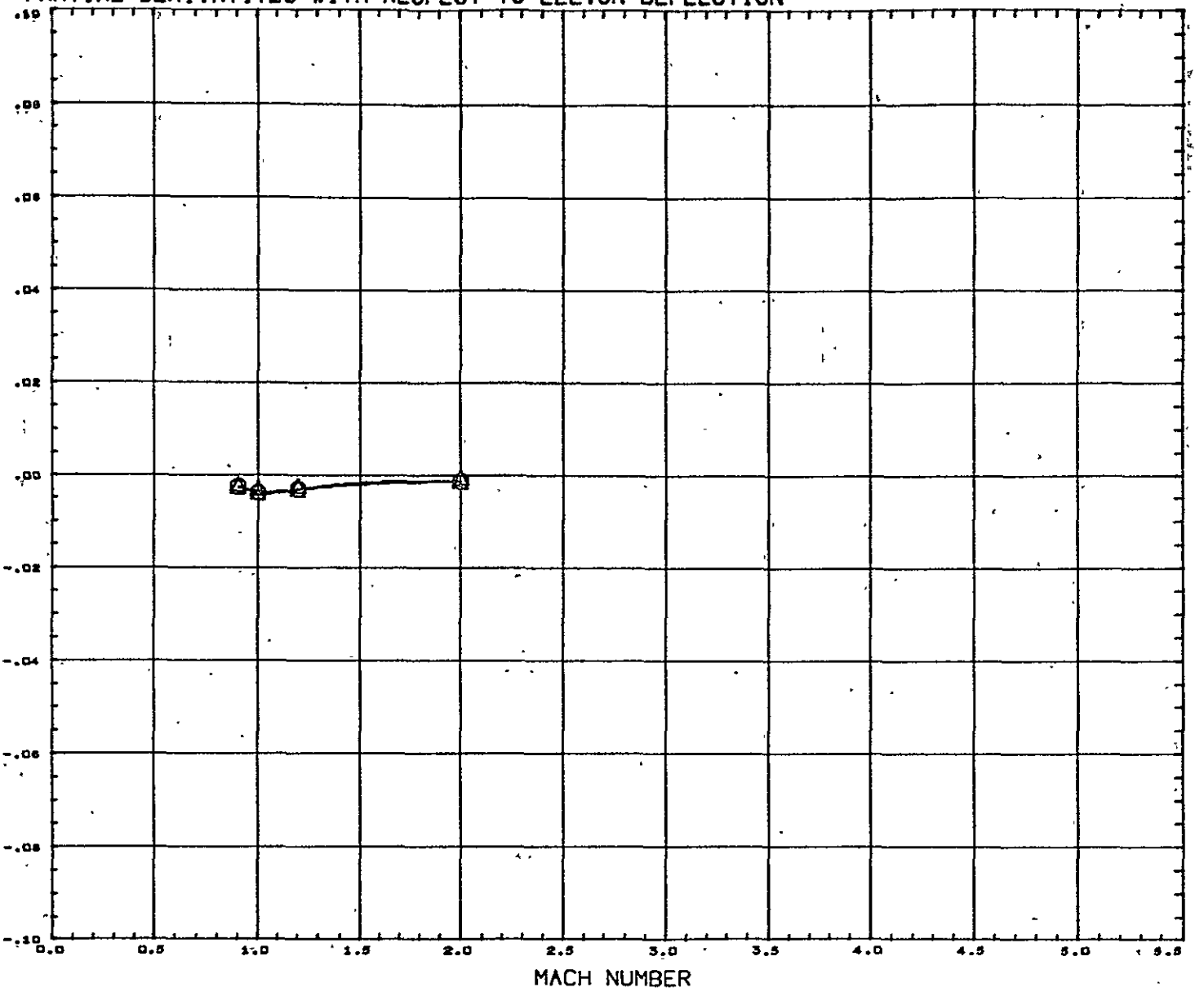
BETA	0.000	DCL	0.000
DCR	0.000	ELEVON	- 40.000
CANARD	0.000		

DATA HIST. CODE HVR*EI*H*P

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

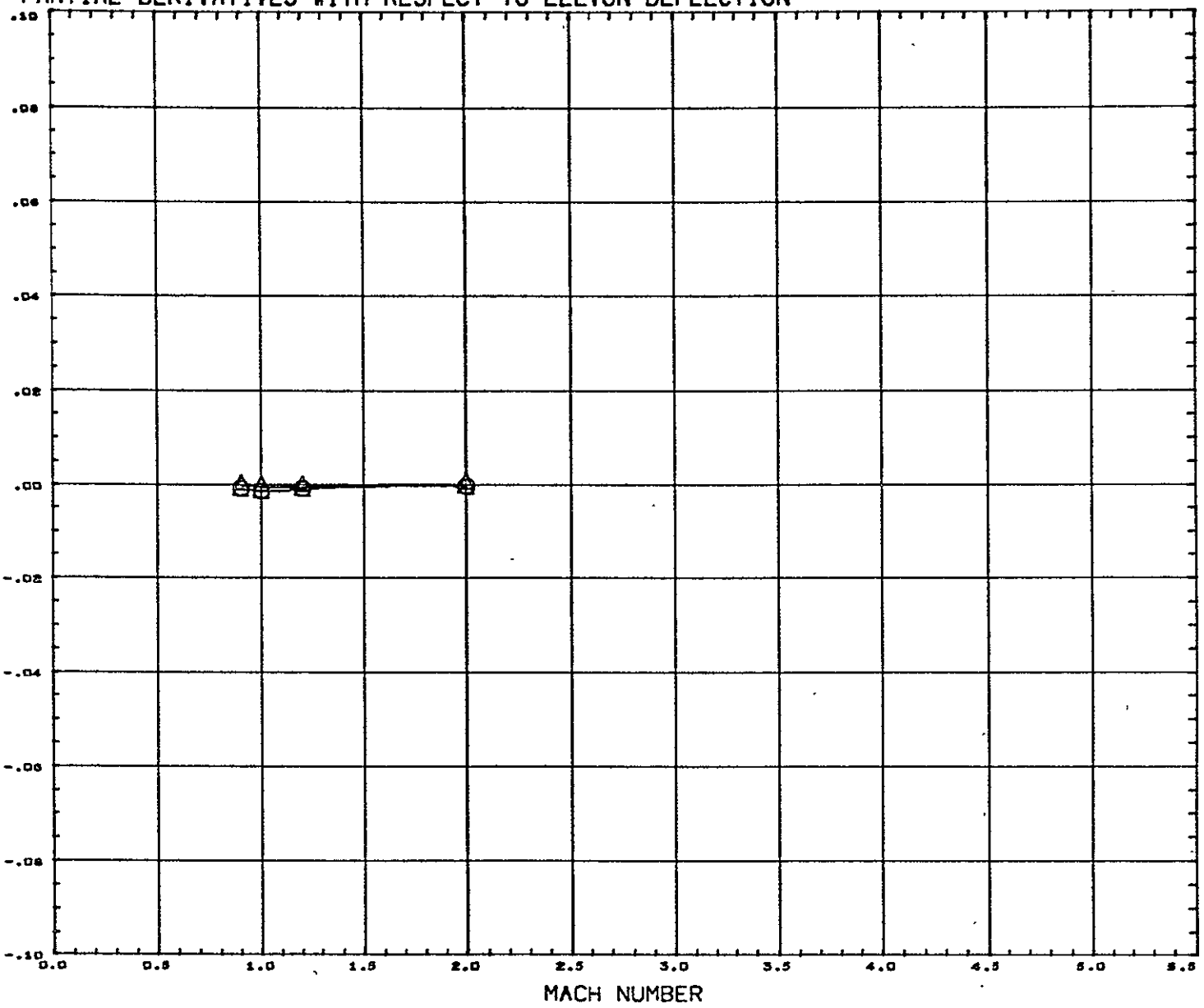
BETA	0.000	DCL	0.000
DCR	0.000	ELEVON	- 40.000
CANARD	0.000		

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION

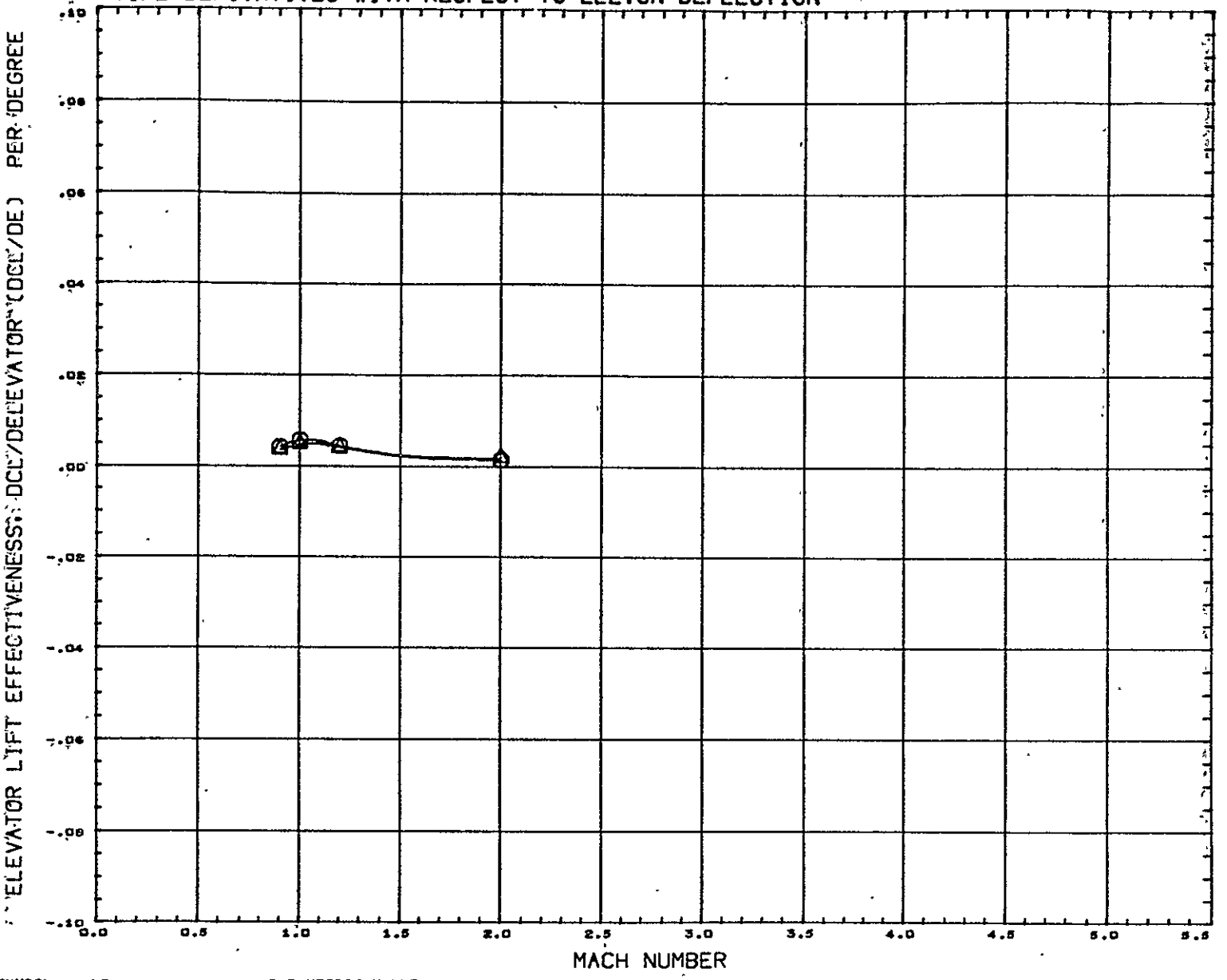


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	10.000	BETA	0.000	DCL	0.000
△	20.000	DCR	0.000	ELEVON	- 40.000
		CANARD	0.000		

DATA HIST. CODE HVR*EI*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION

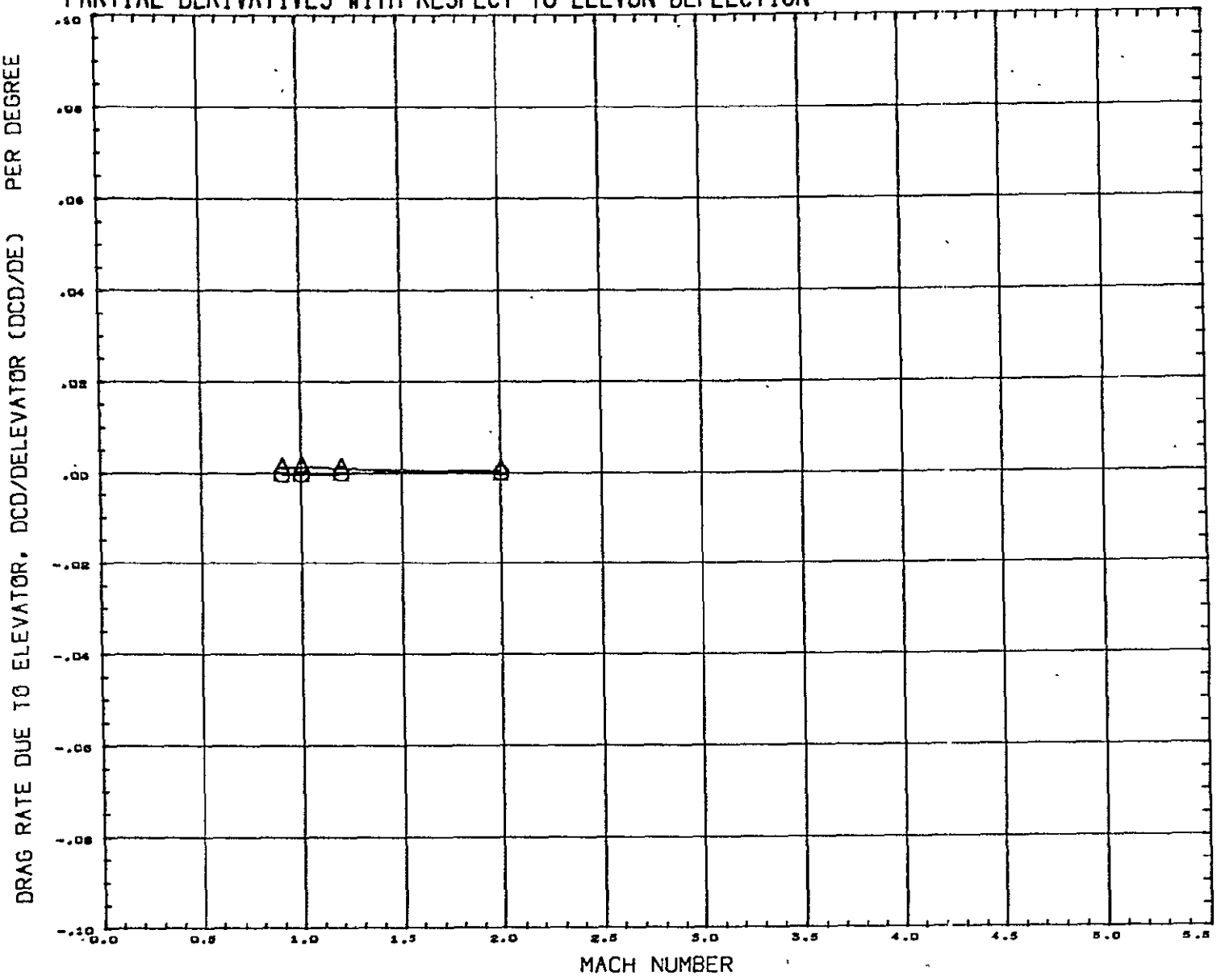


SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DCL	0.000
△	20.000	DCR	0.000	ELEVON	- 40.000
		CANARD	0.000		

DATA HIST. CODE MVR*E1*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

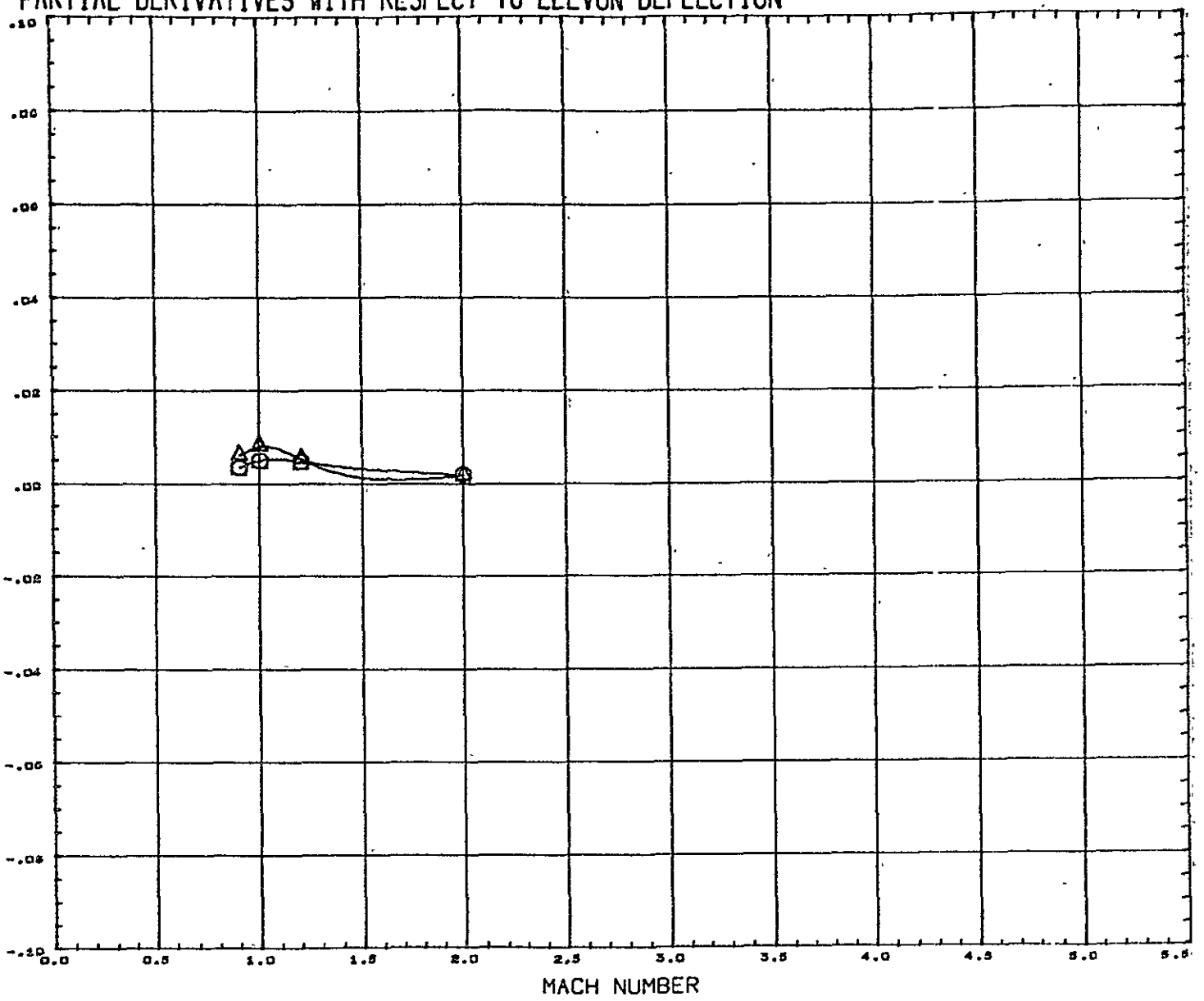
BETA	0.000	DCL	0.000
DCR	0.000	ELEVON	- 40.000
CANARD	0.000		

DATA HIST. CODE MVR*E1*H*P

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION



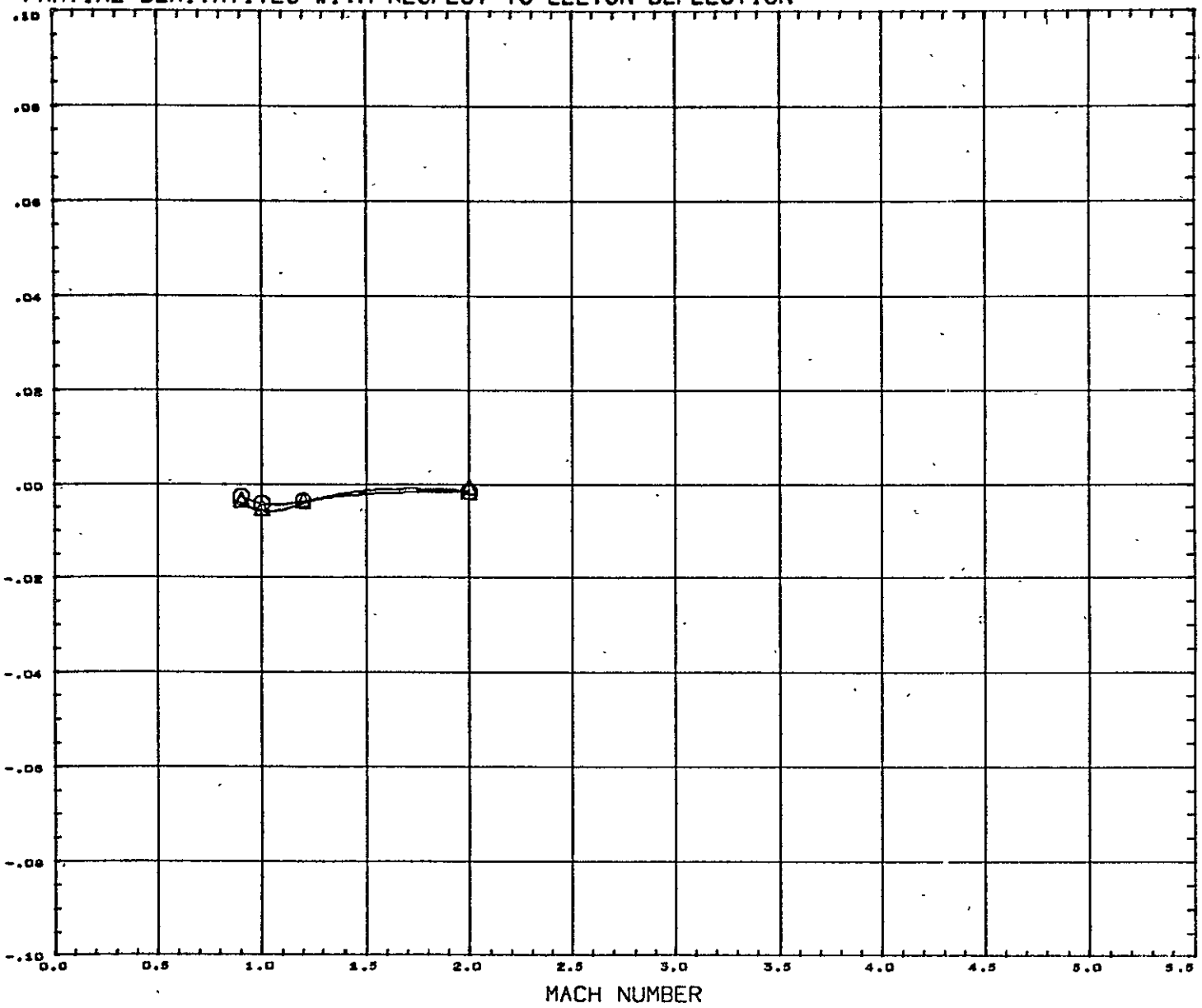
SYMBOL	ALPHA		PARAMETRIC VALUES		
○	10.000	BETA	0.000	DCL	0.000
△	20.000	DCR	0.000	ELEVON	- 15.000
		CANARD	0.000		

DATA HIST. CODE HVR*E1*H*P

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION

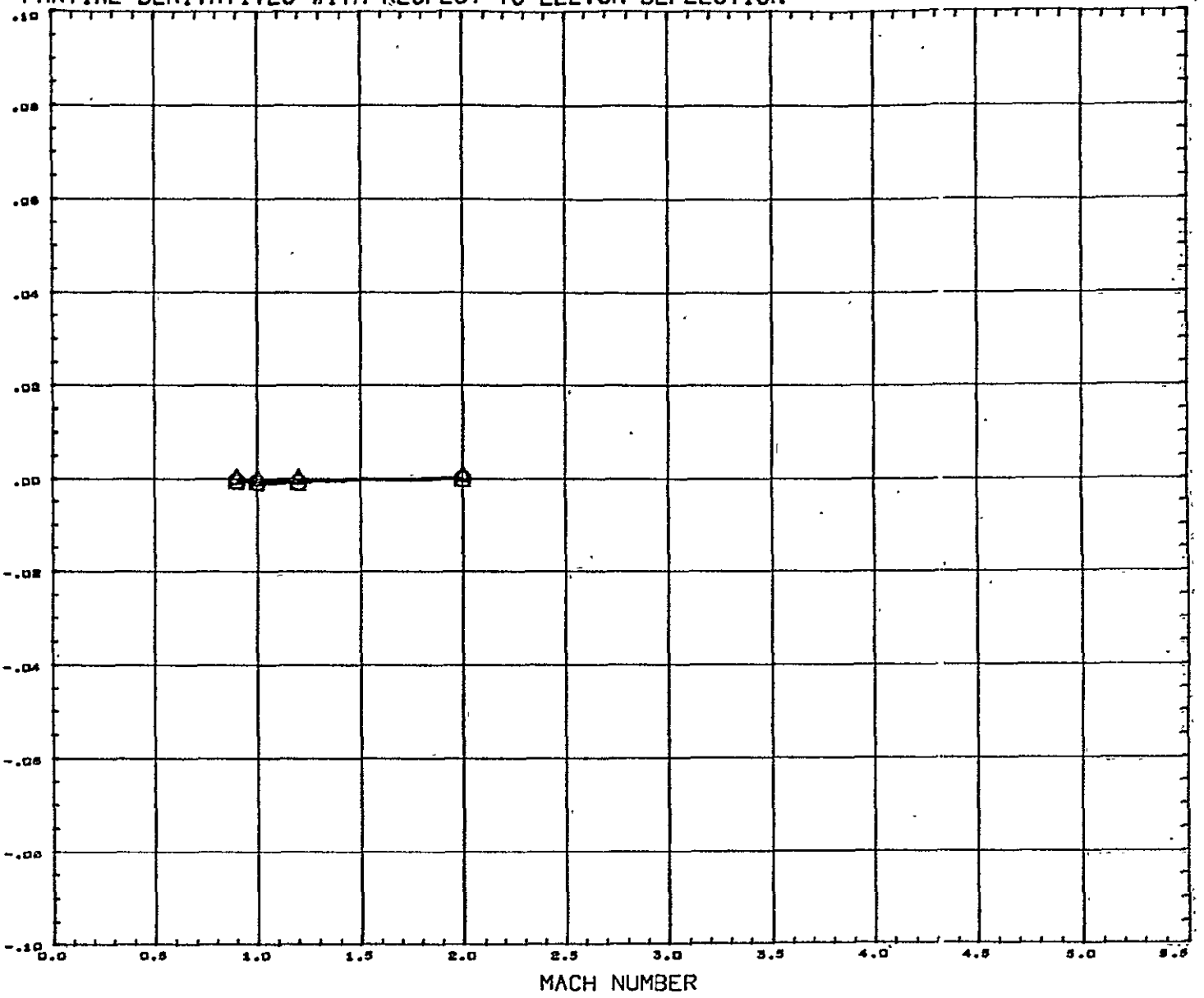


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	10.000	BETA	0.000	DCL	0.000
△	20.000	DCR	0.000	ELEVON	- 15.000
		CANARD	0.000		

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION

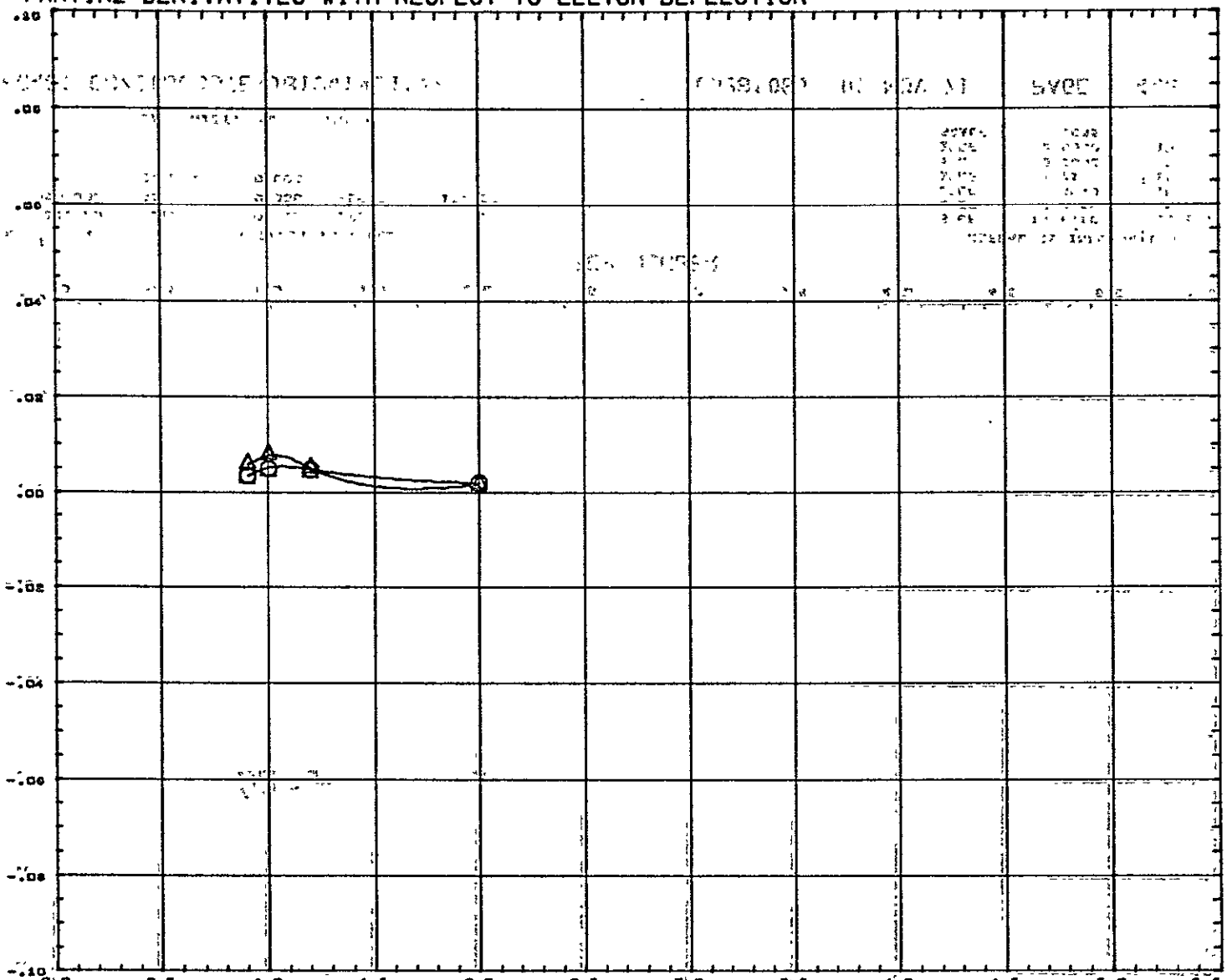


SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DCL	0.000
△	20.000	DCR	0.000	ELEVON	- 15.000
		CANARD	0.000		

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION

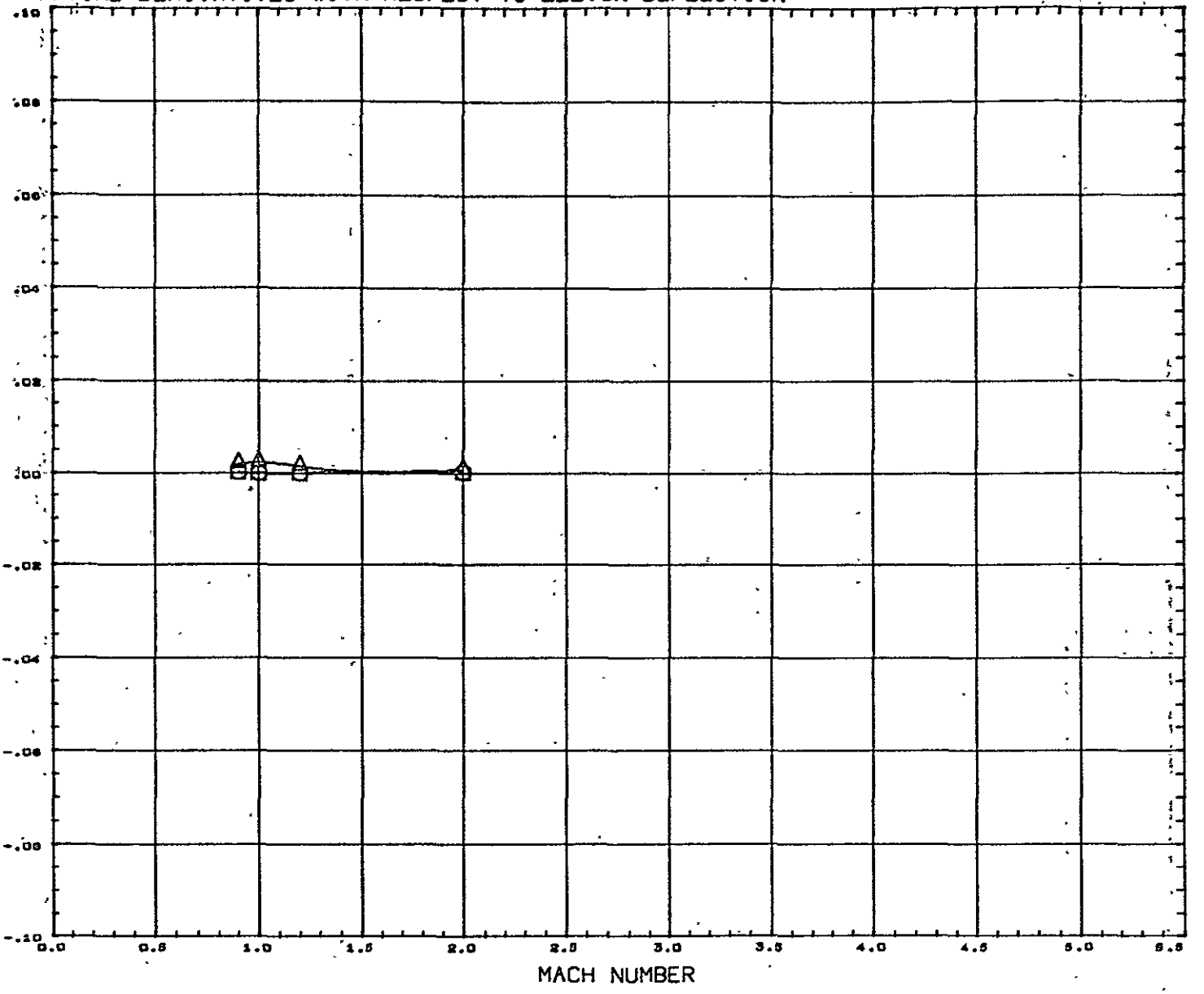


SYMBOL	ALPHA	PARAMETRIC VALUES			
△	10.000	BETA	0.000	DCL	0.000
□	20.000	DCR	0.000	ELEVON	-15.000
		CANARD	0.000		

DATA HIST. CODE MVR*E1*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION

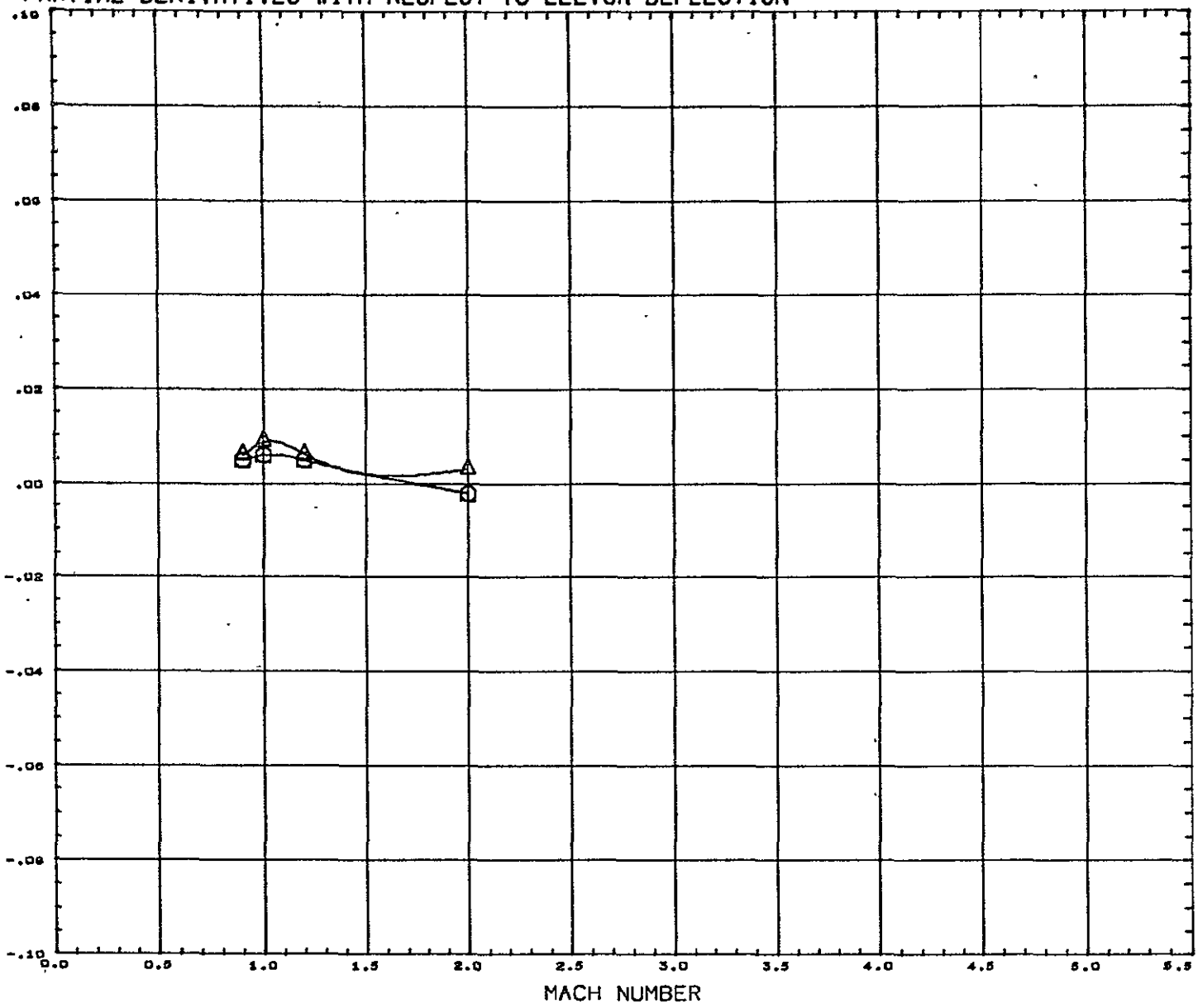


SYMBOL	ALPHA	PARAMETRIC VALUES			
△	10.000	BETA	0.000	DCL	0.000
○	20.000	DCR	0.000	ELEVON	- 15.000
		CANARD	0.000		

DATA HIST. CODE MVR*E1*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION

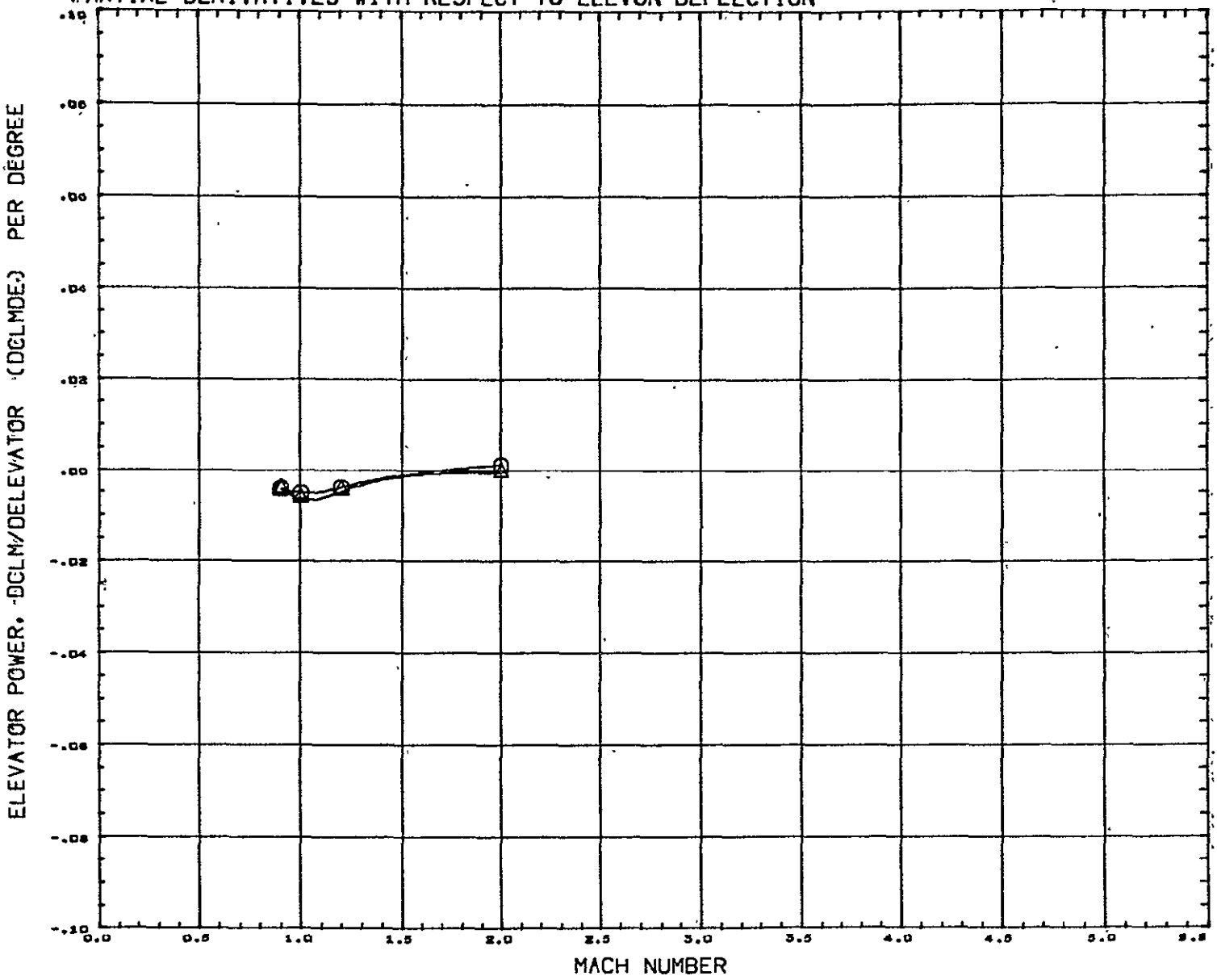


SYMBOL	ALPHA		PARAMETRIC VALUES		
△	10.000	BETA	0.000	DCL	0.000
△	20.000	DCR	0.000	ELEVON -	5.000
		CANARD	0.000		

DATA HIST. CODE MVR*E1*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES		
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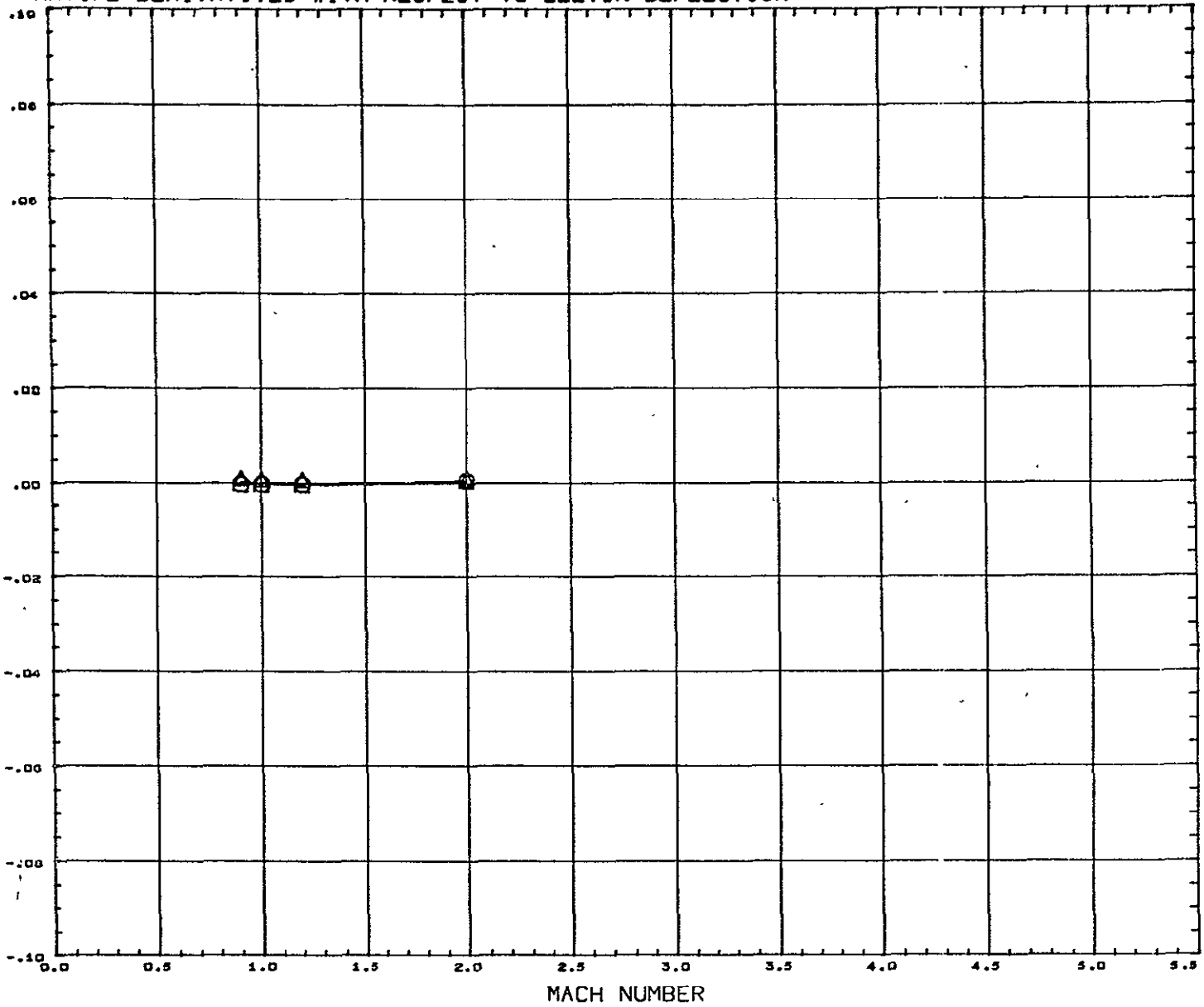
△	20.000	DCR	0.000	ELEVON	- 5.000
		CANARD	0.000		

DATA HIST. CODE HVR*E1*H*F

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES		
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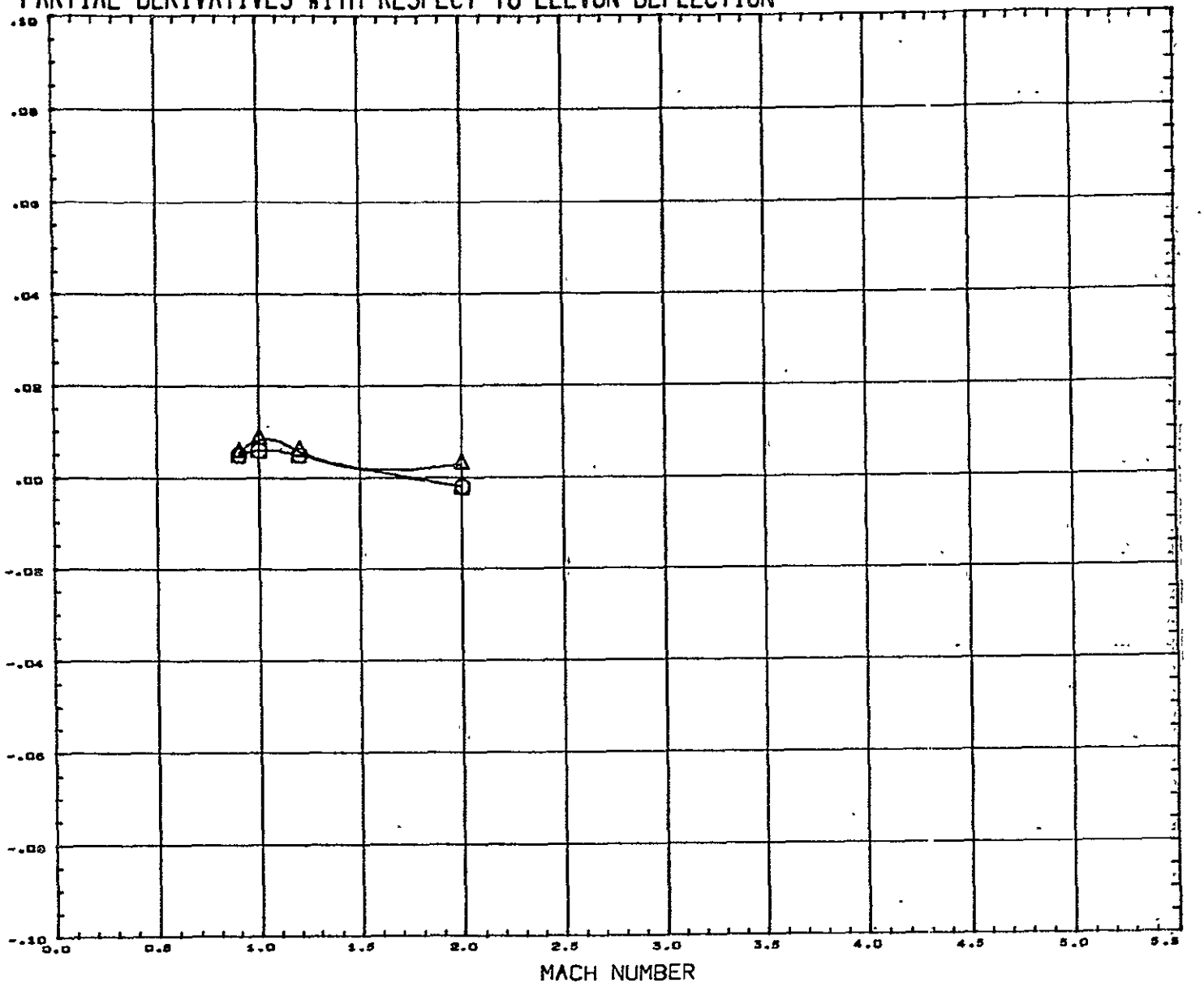
□	20.000	DCR	0.000	ELEVON -	5.000
		CANARD	0.000		

DATA HIST. CODE HVR*E1*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES			
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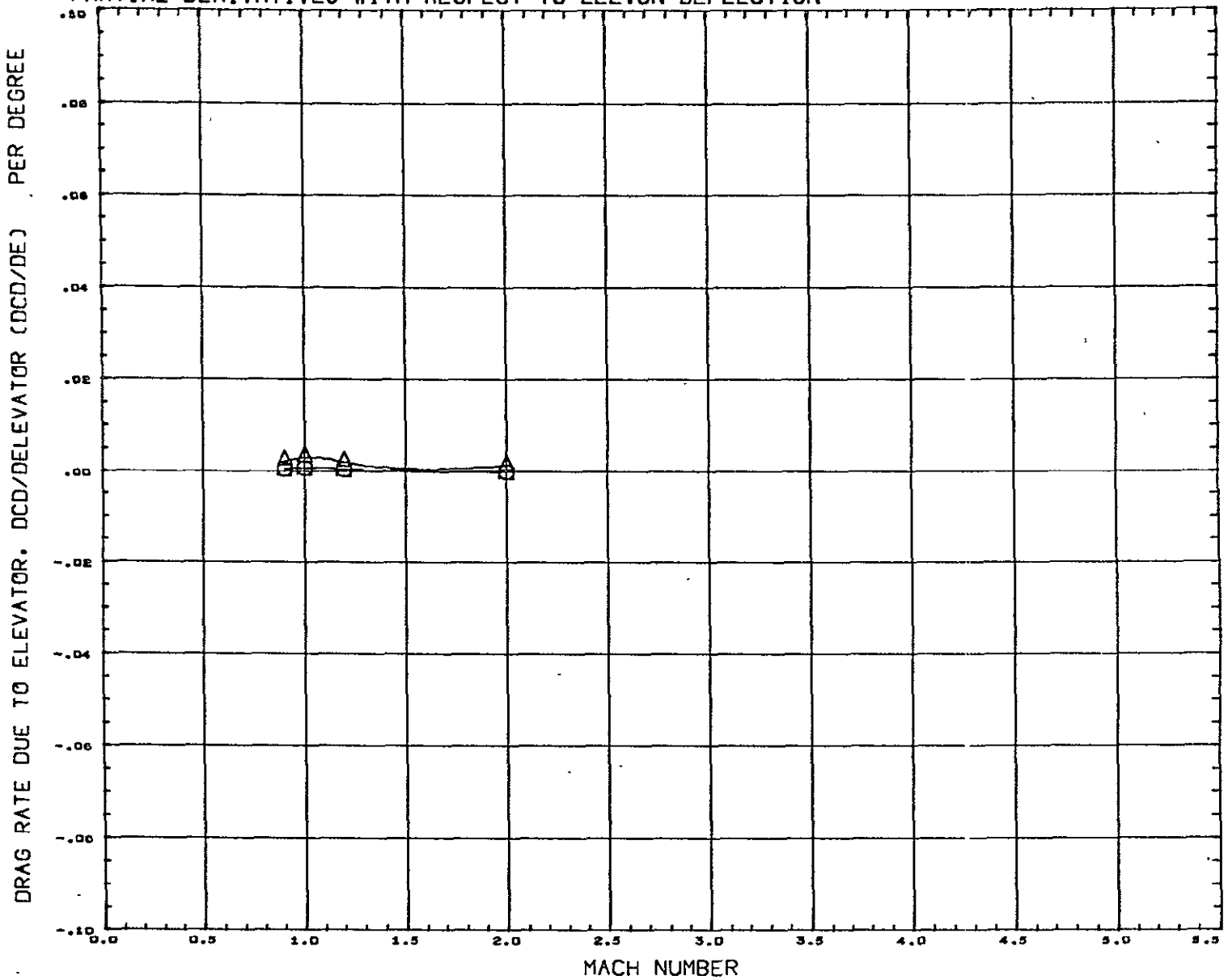
○	20.000	DCR	0.000	ELEVON	- 5.000
		CANARD	0.000		

DATA HIST. CODE HVR*EI*H*P

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION

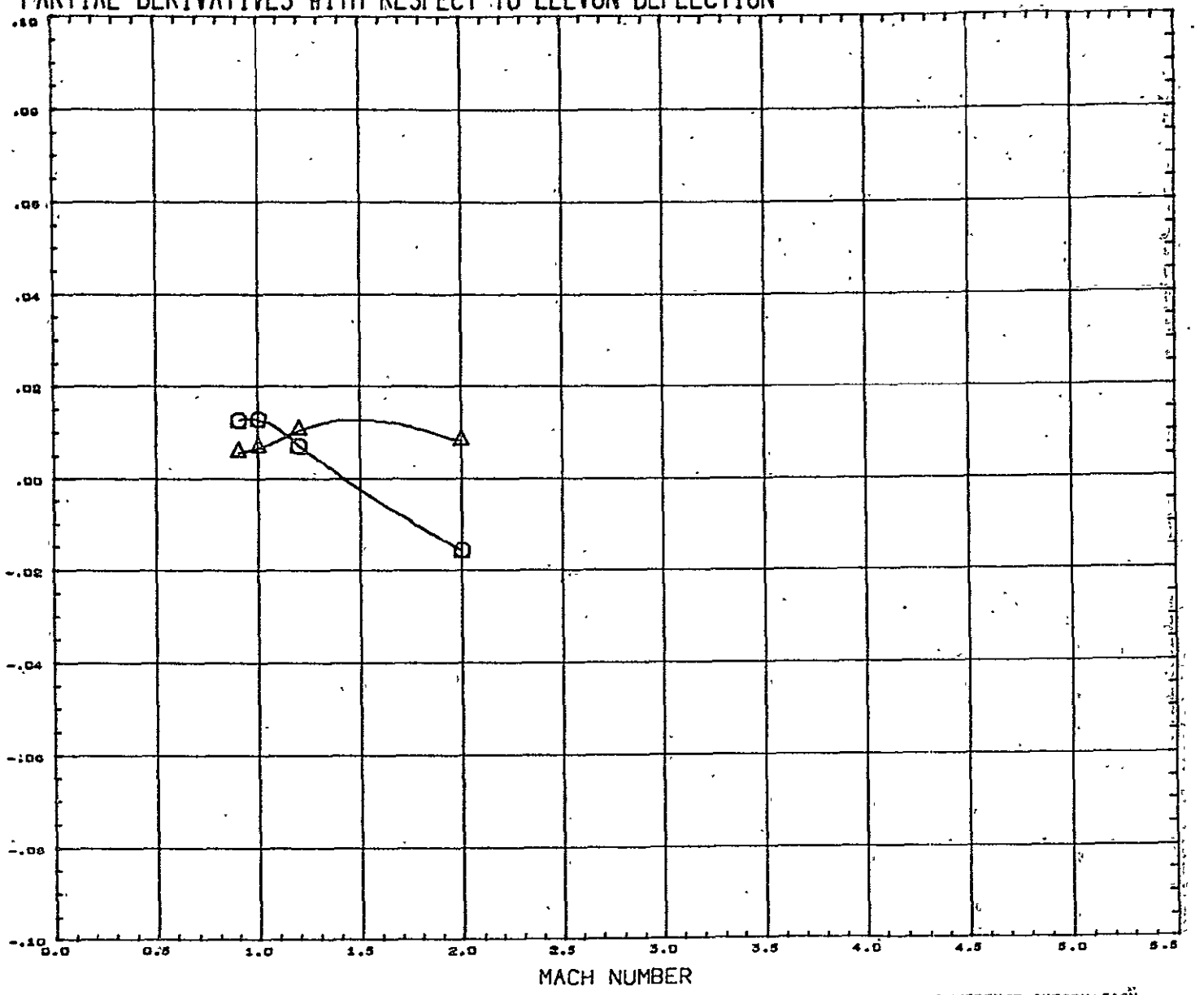


SYMBOL	ALPHA	PARAMETRIC VALUES			
	10.000	BETA	0.000	DCL	0.000
	20.000	DCR	0.000	ELEVON	- 5.000
		CANARD	0.000		

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION

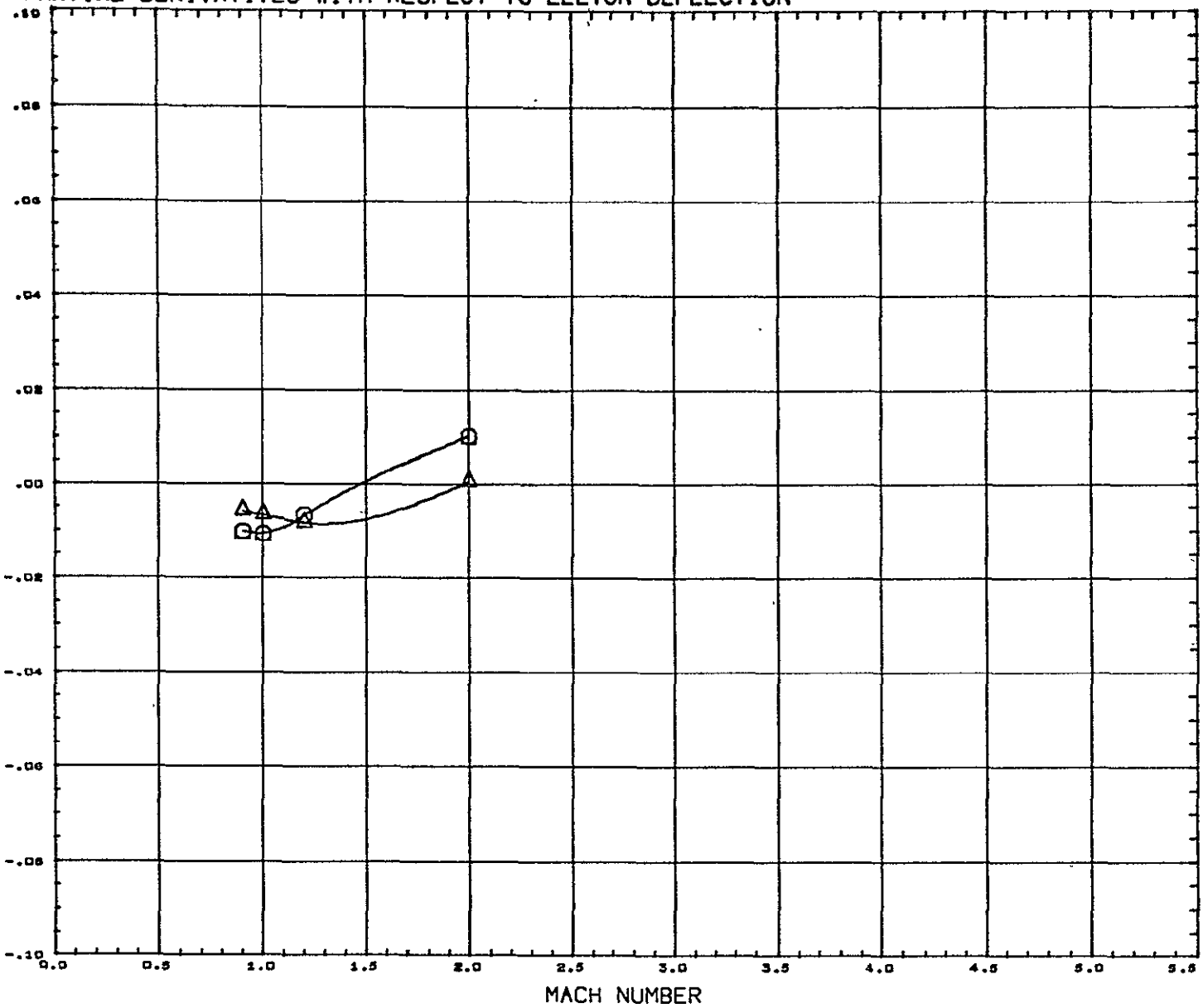


SYMBOL	ALPHA	PARAMETRIC VALUES			
△	10.000	BETA	0.000	DCL	0.000
○	20.000	DCR	0.000	ELEVON	5.000
		CANARD	0.000		

DATA HIST. CODE HVR*E1*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION

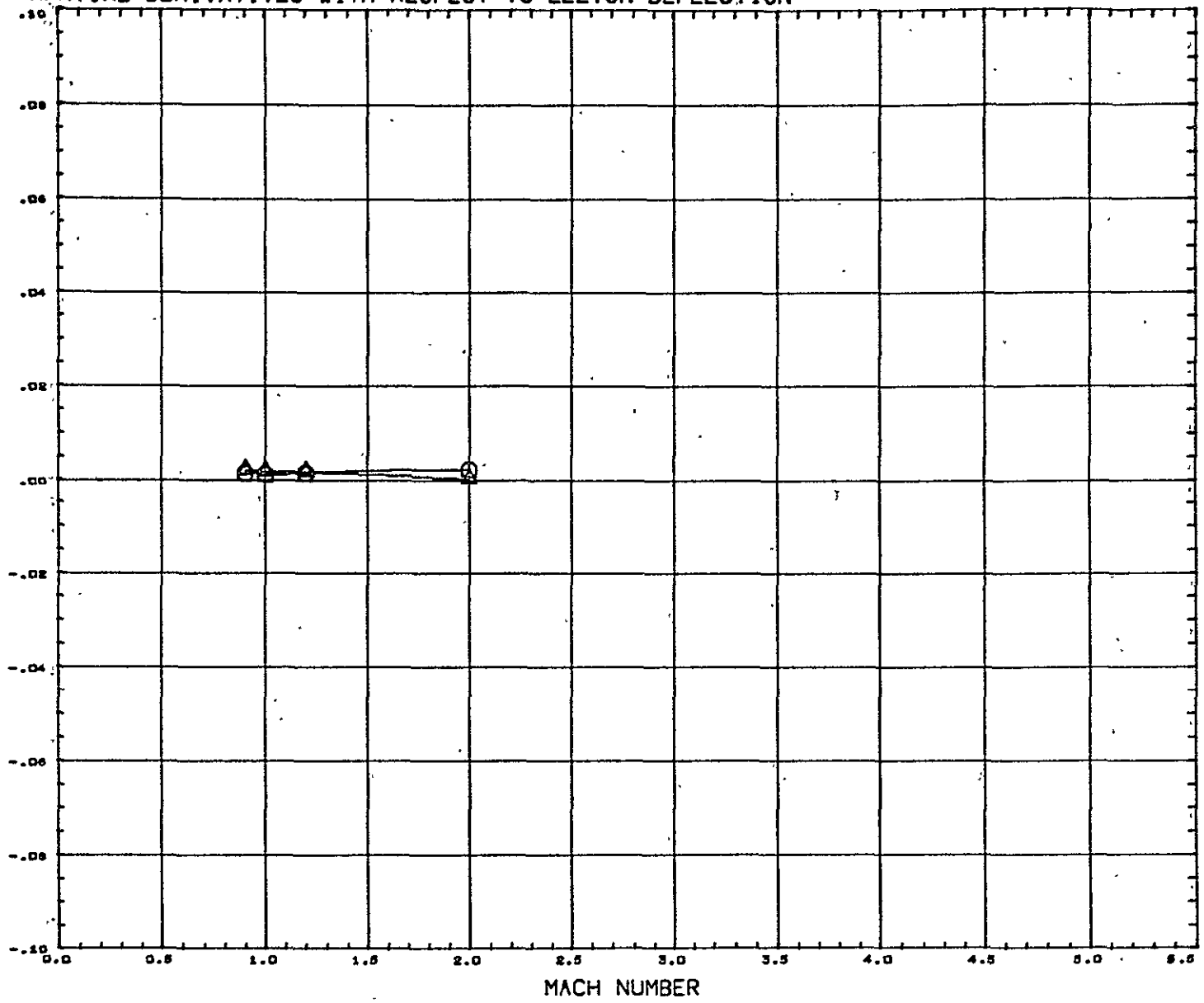


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	10.000	BETA	0.000	DCL	0.000
△	20.000	DCR	0.000	ELEVON	5.000
		CANARD	0.000		

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION

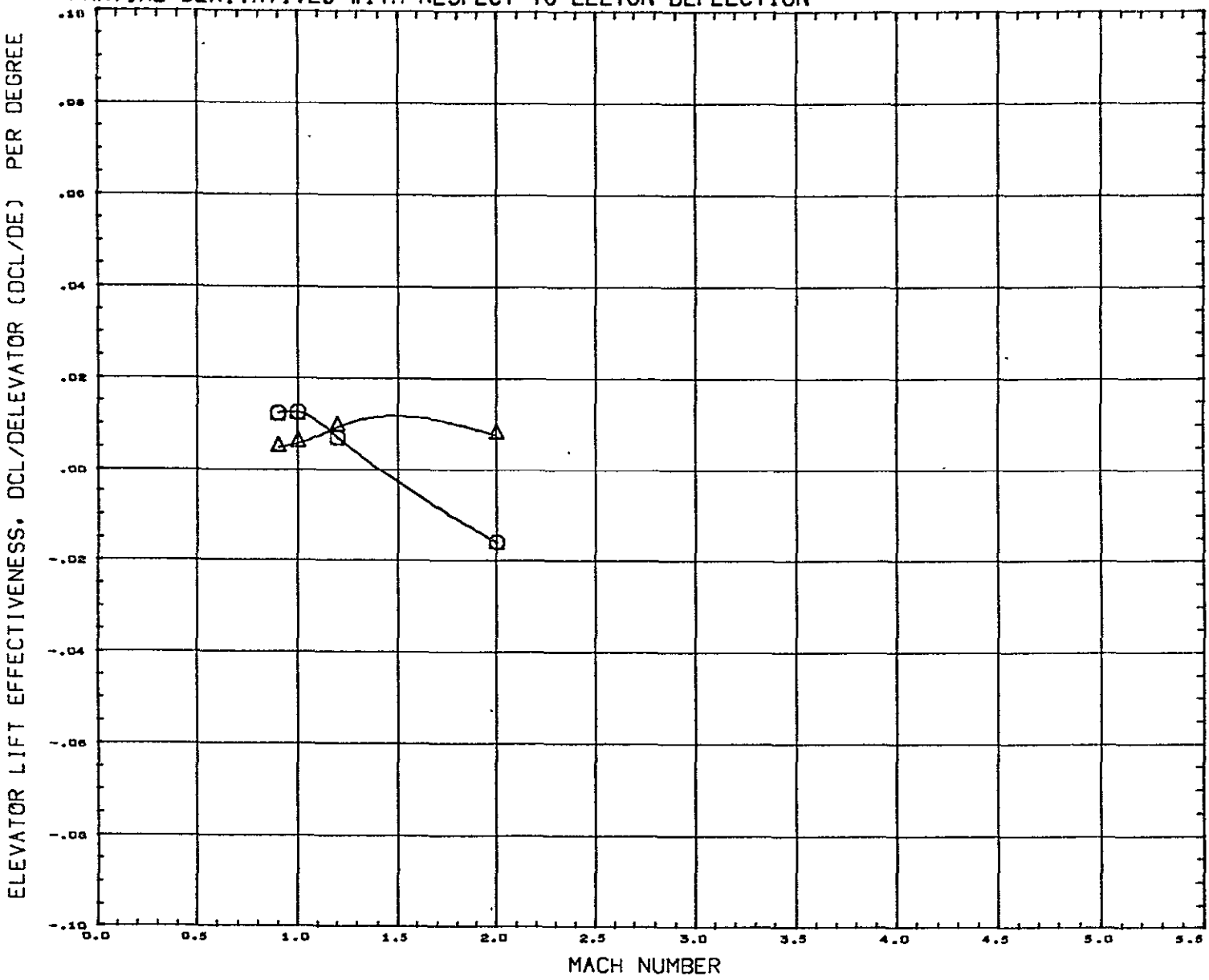


SYMBOL	ALPHA		PARAMETRIC VALUES		
△	10.000	BETA	0.000	DCL	0.000
□	20.000	DCR	0.000	ELEVON δ	5.000
		CANARD	0.000		

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION

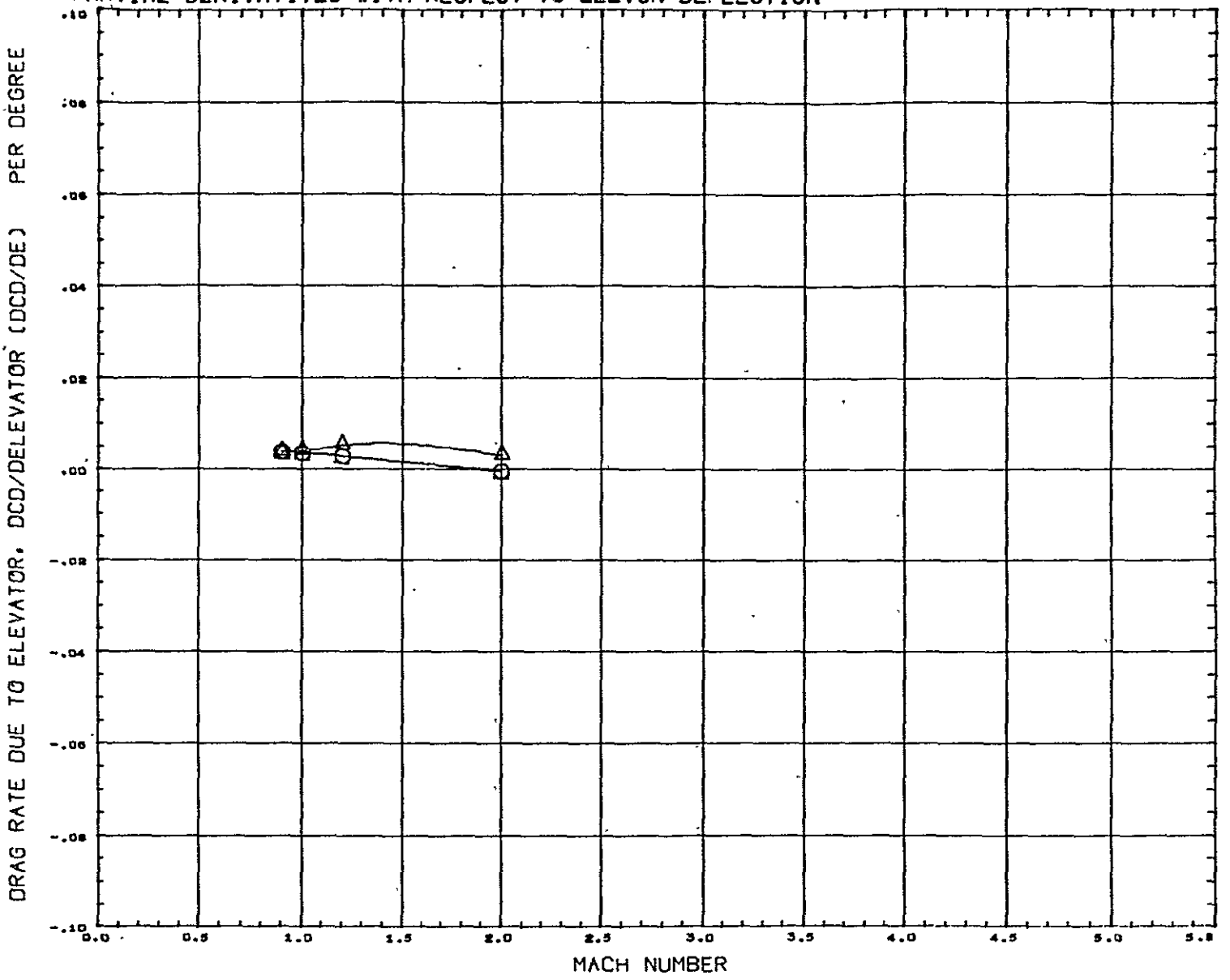


SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DCL	0.000
△	20.000	DCR	0.000	ELEVON	5.000
		CANARD	0.000		

DATA HIST. CODE MVR*E1*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO ELEVON DEFLECTION

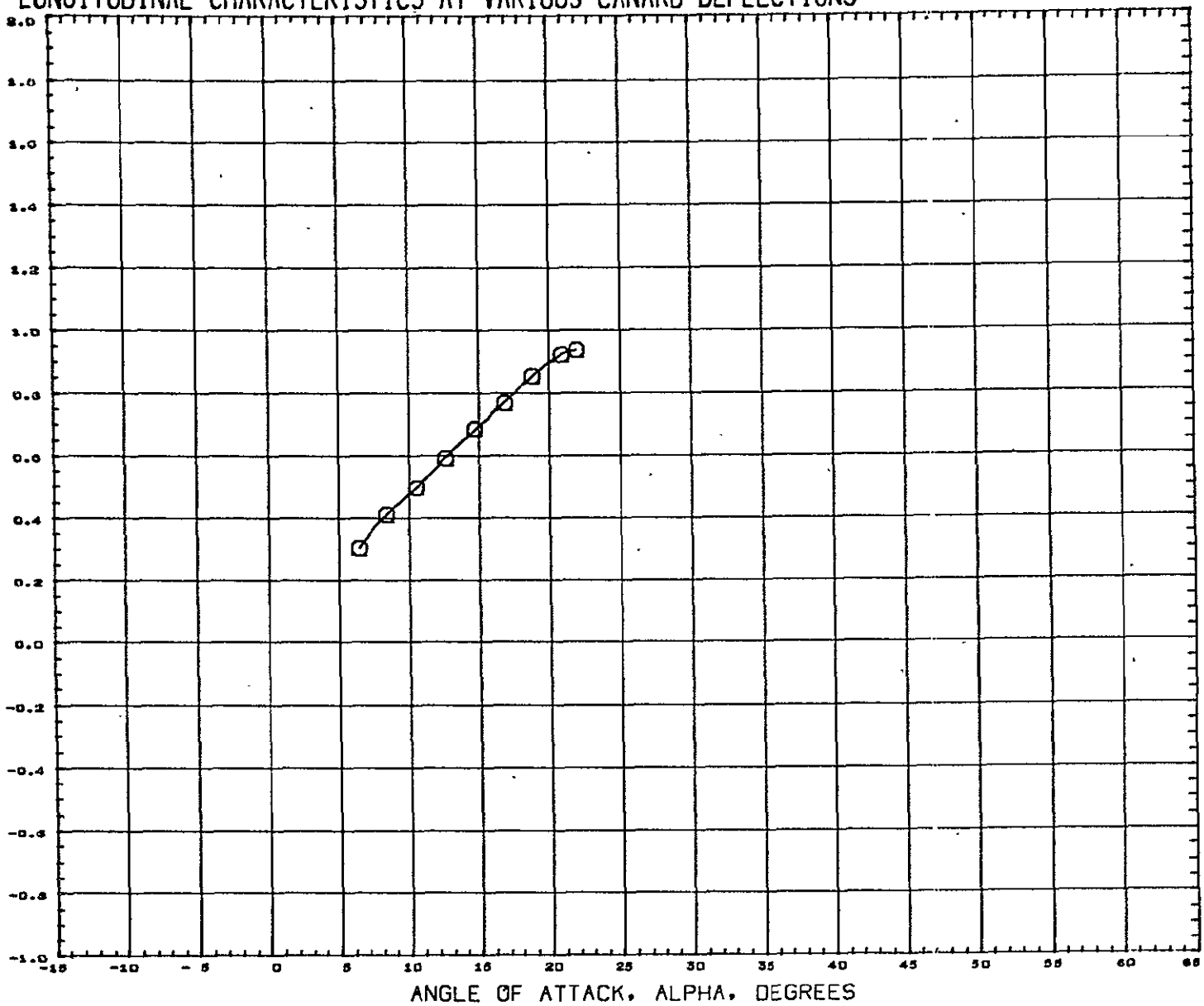


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	10.000	BETA	0.000	DCL	0.000
△	20.000	DCR	0.000	ELEVON	5.000
		CANARD	0.000		

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

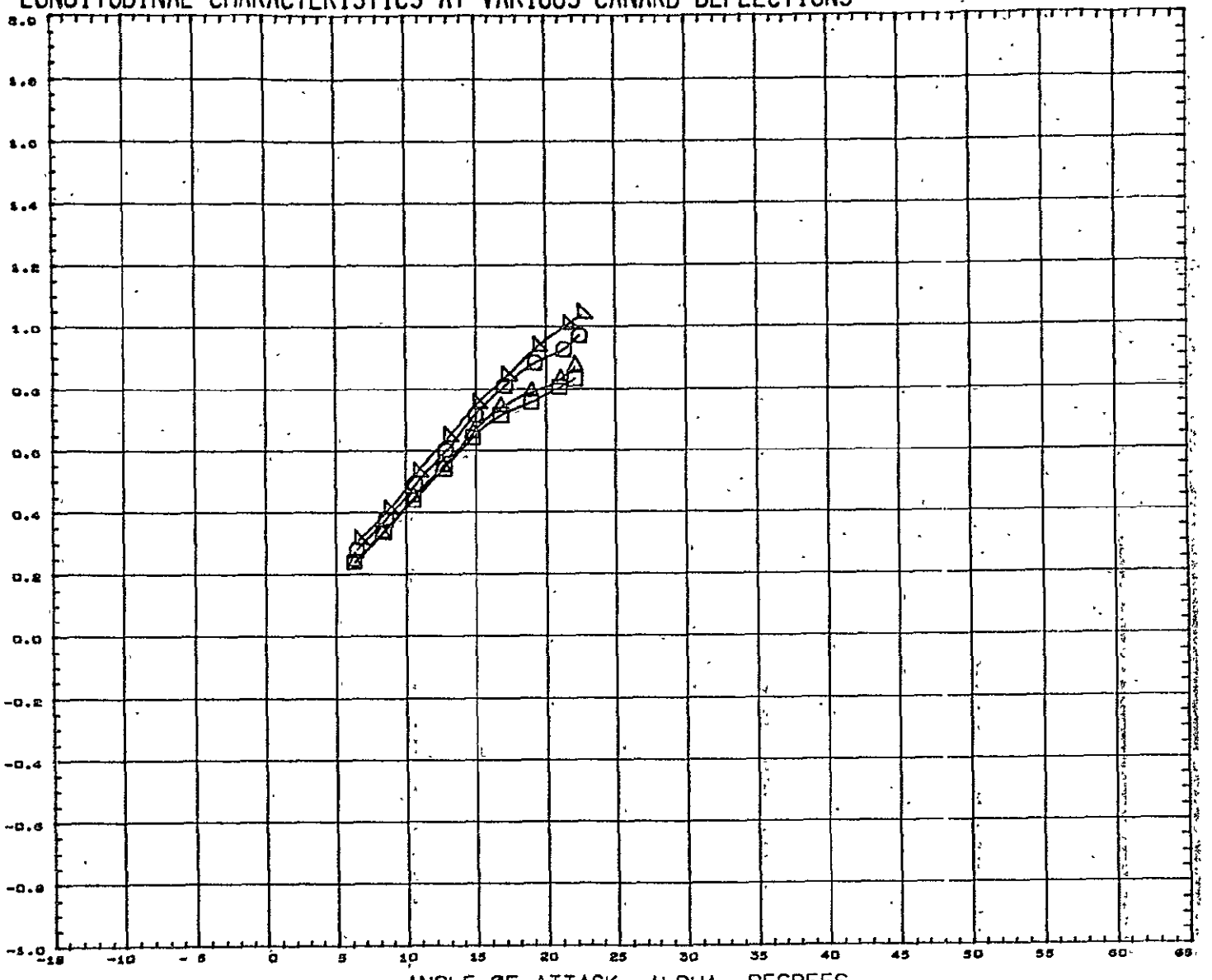


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E26C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

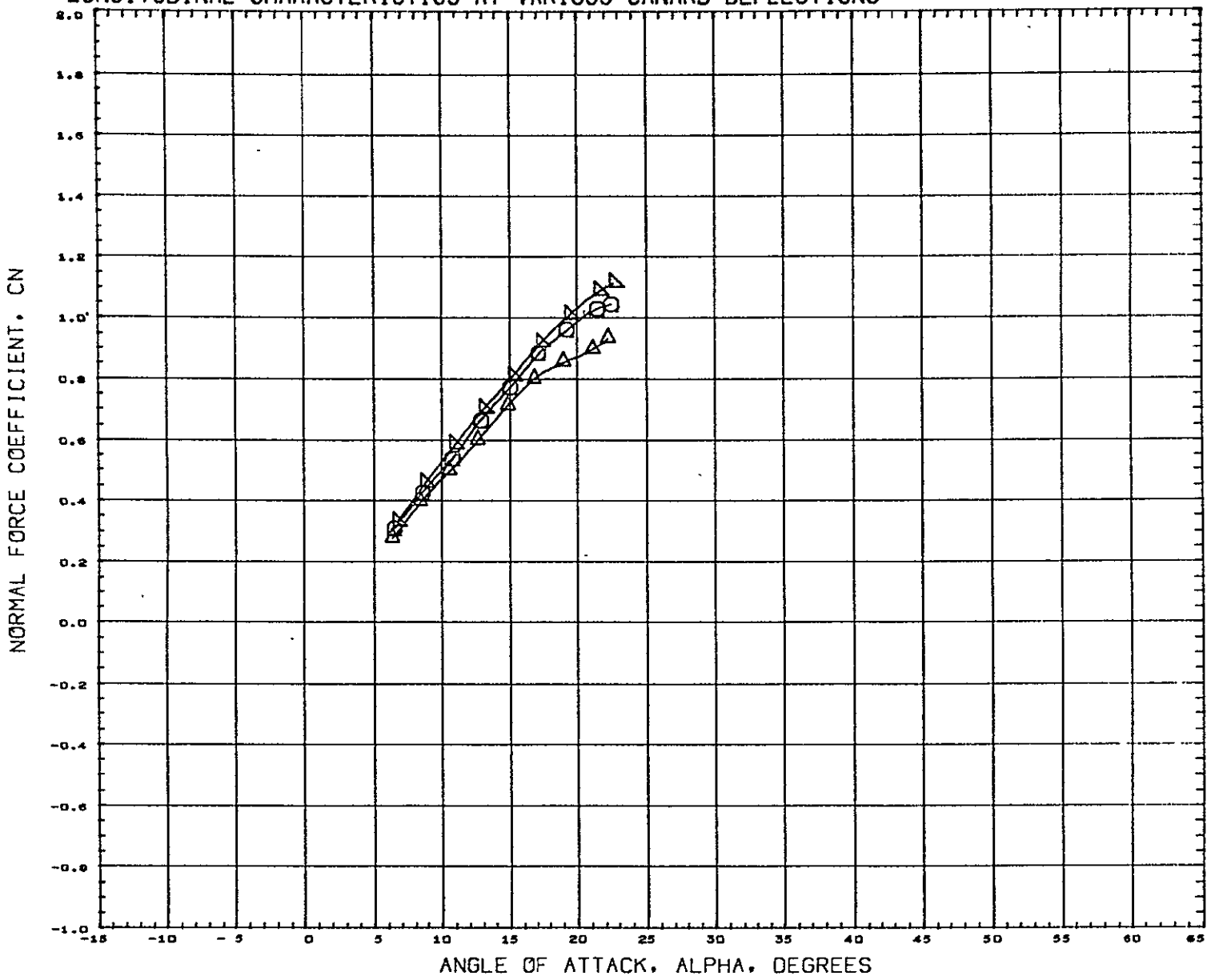


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28000)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.900

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

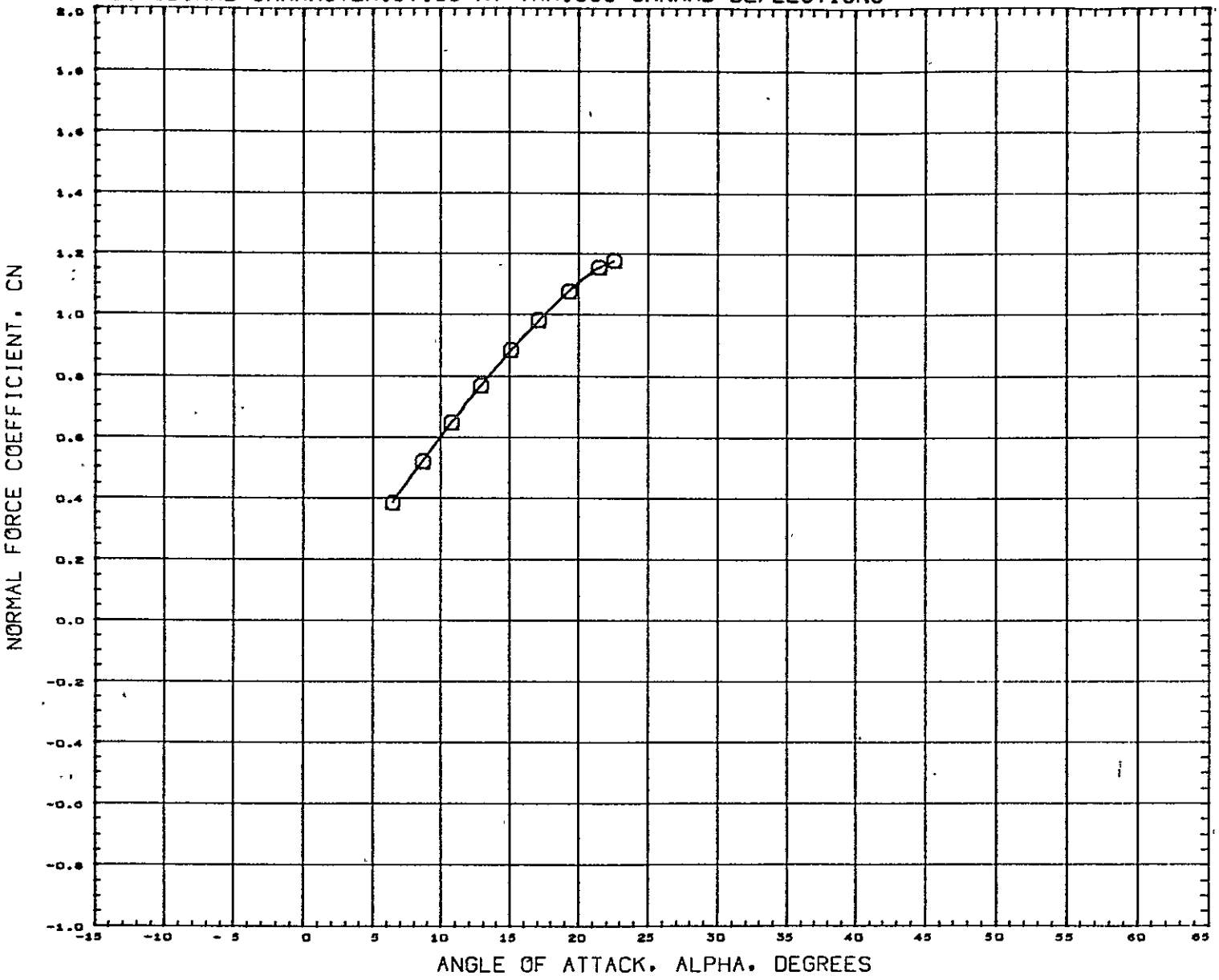


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)	▽	MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 0.954

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

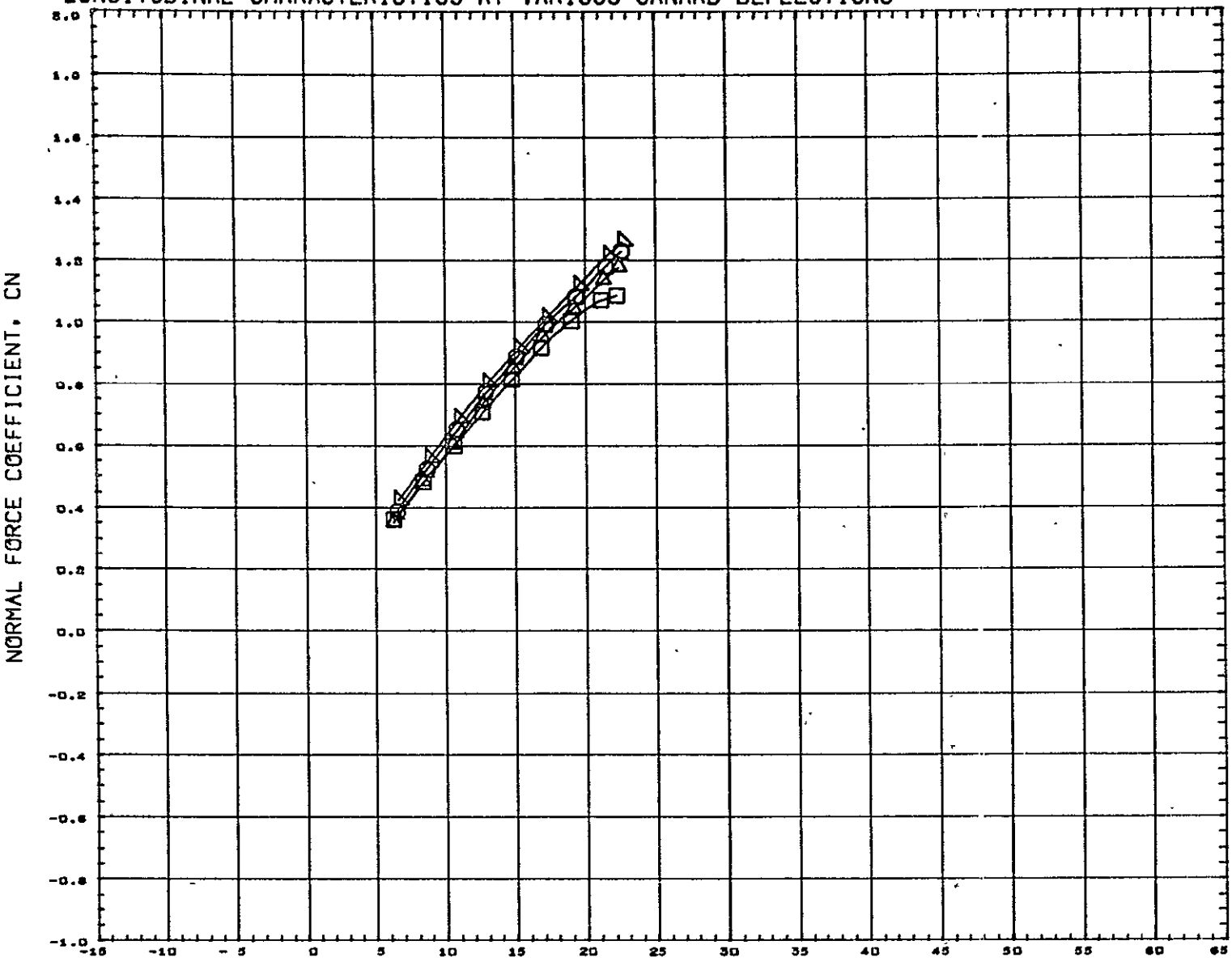


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(C26C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)	⊿	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 1.007

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

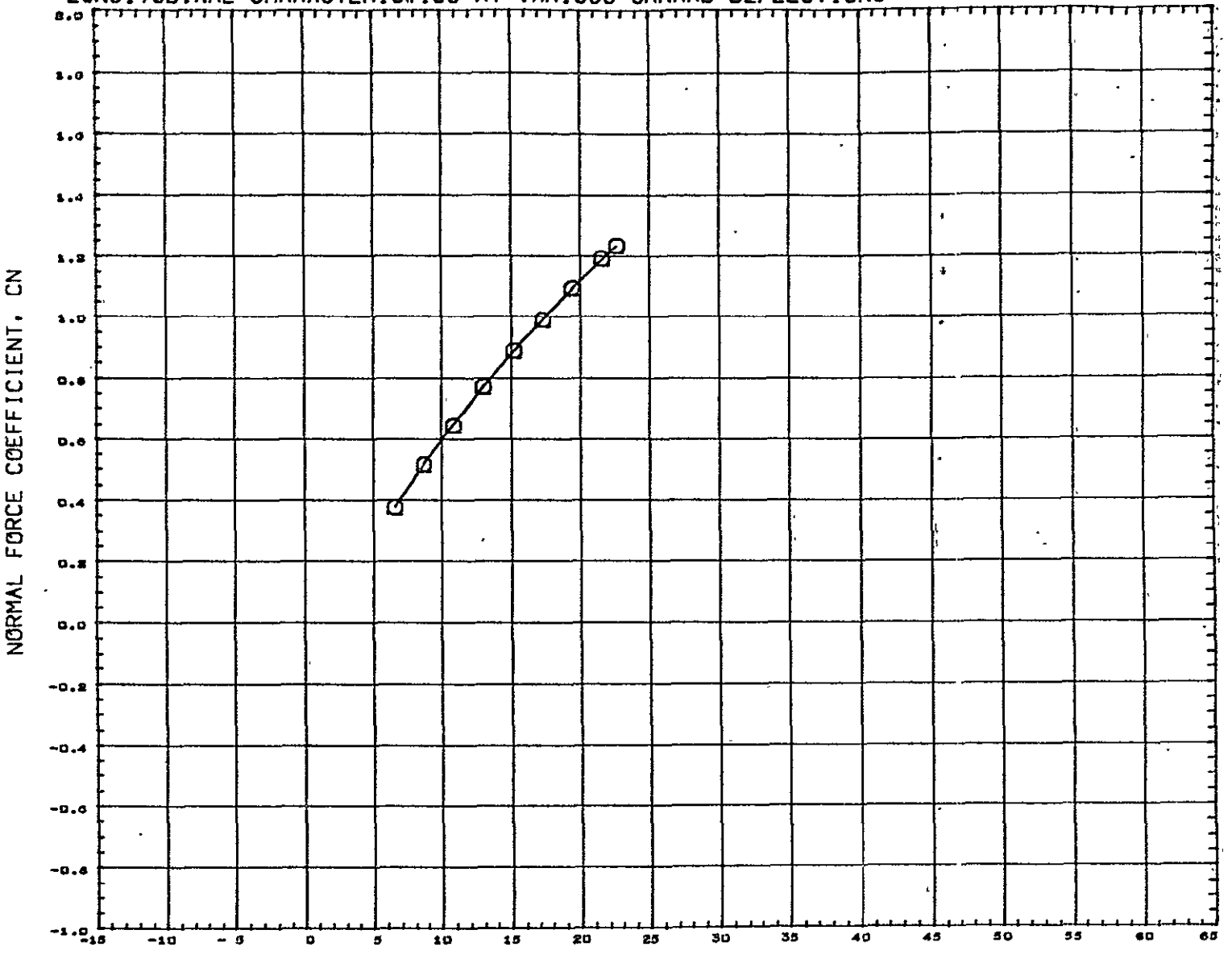


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.051

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

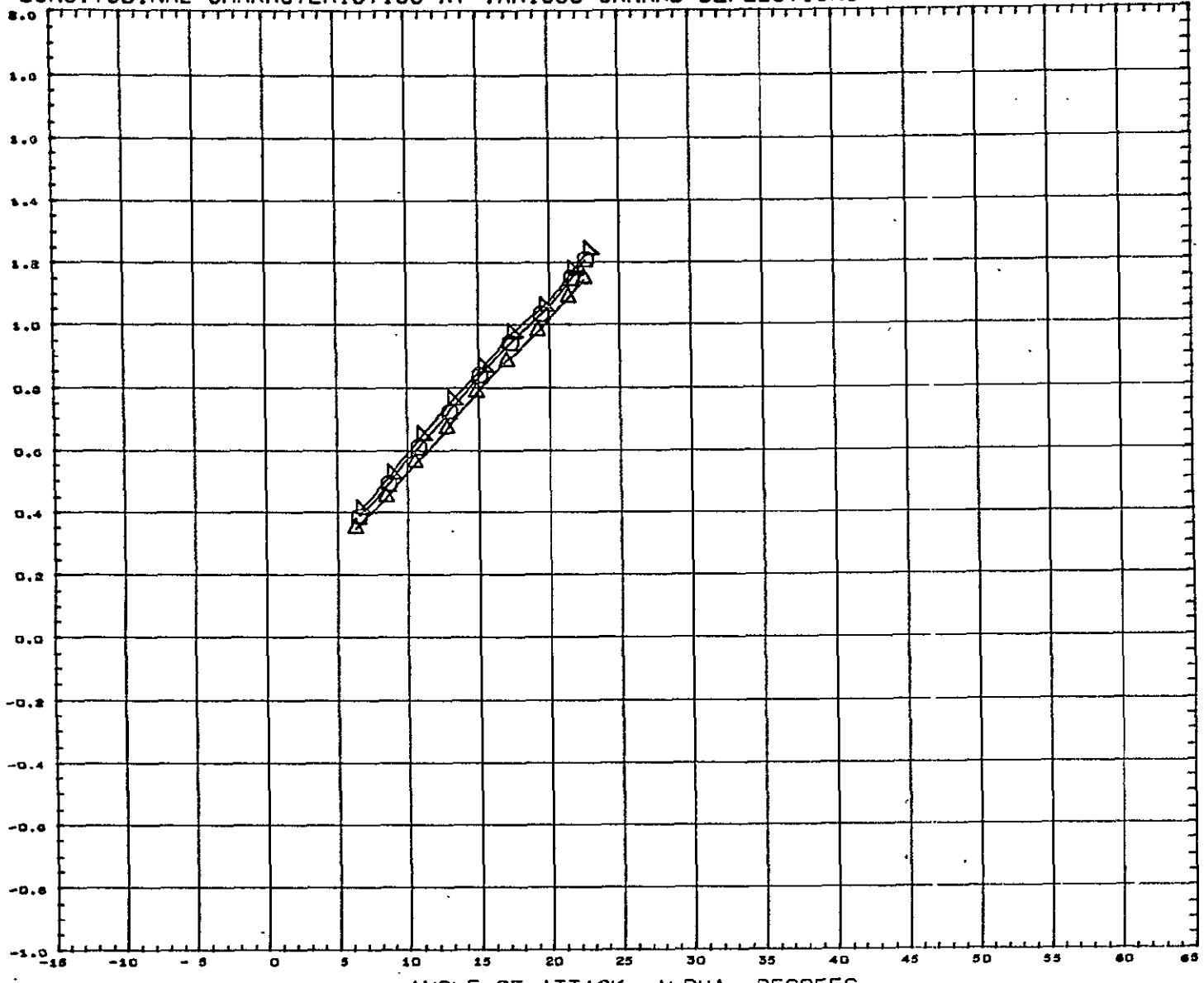


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 1.105

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

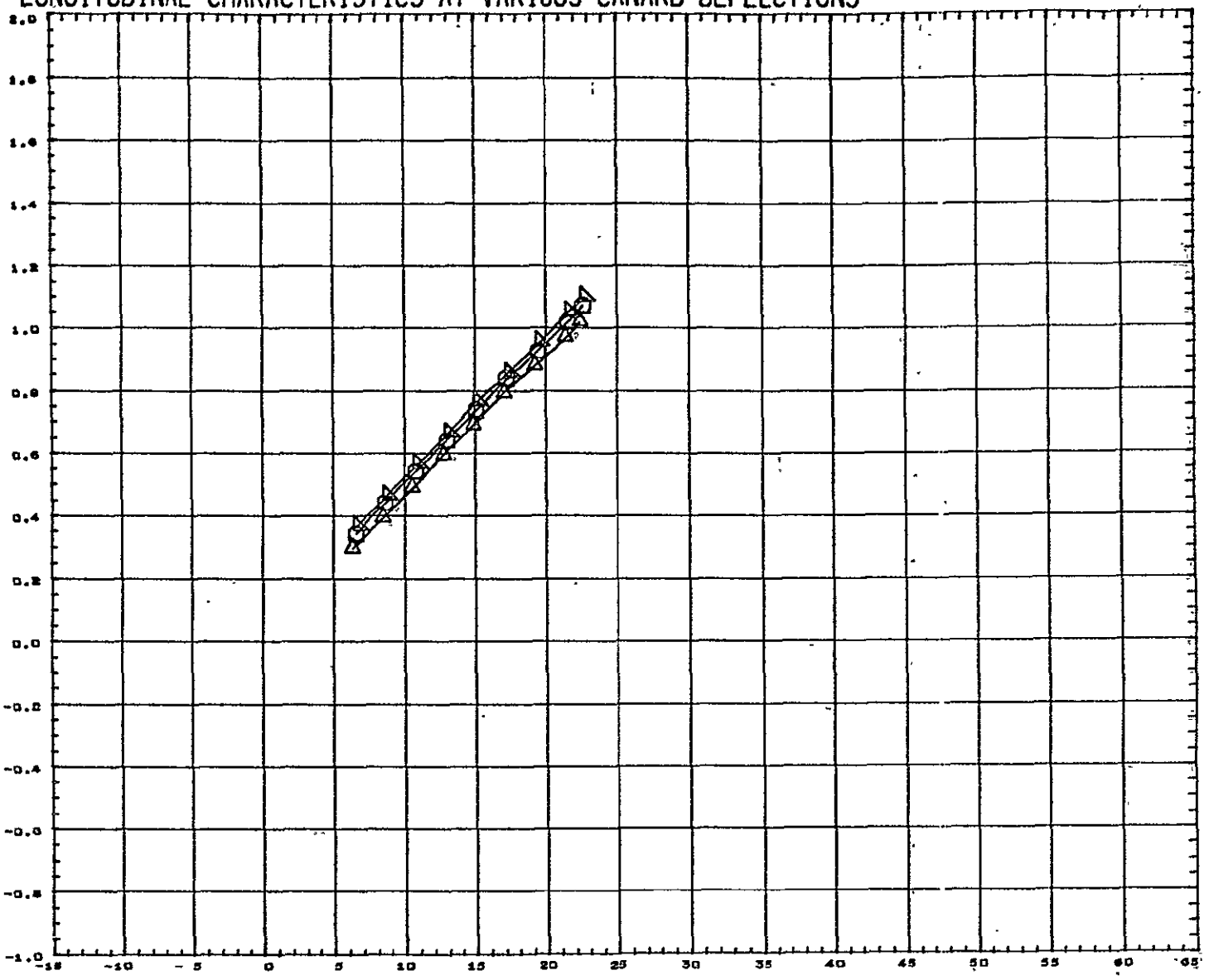


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E26C5D)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)	▽	MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

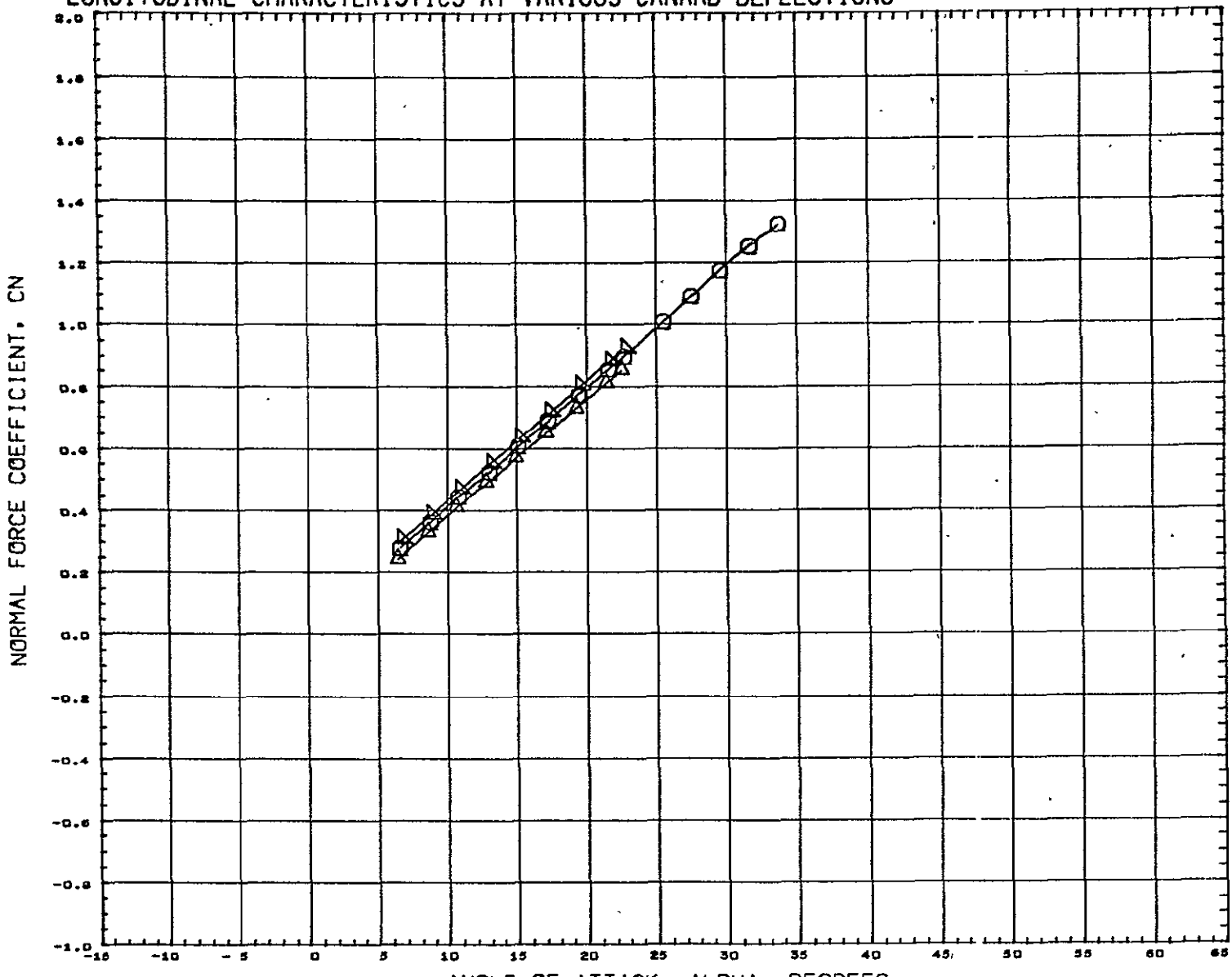


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 461 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.462

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

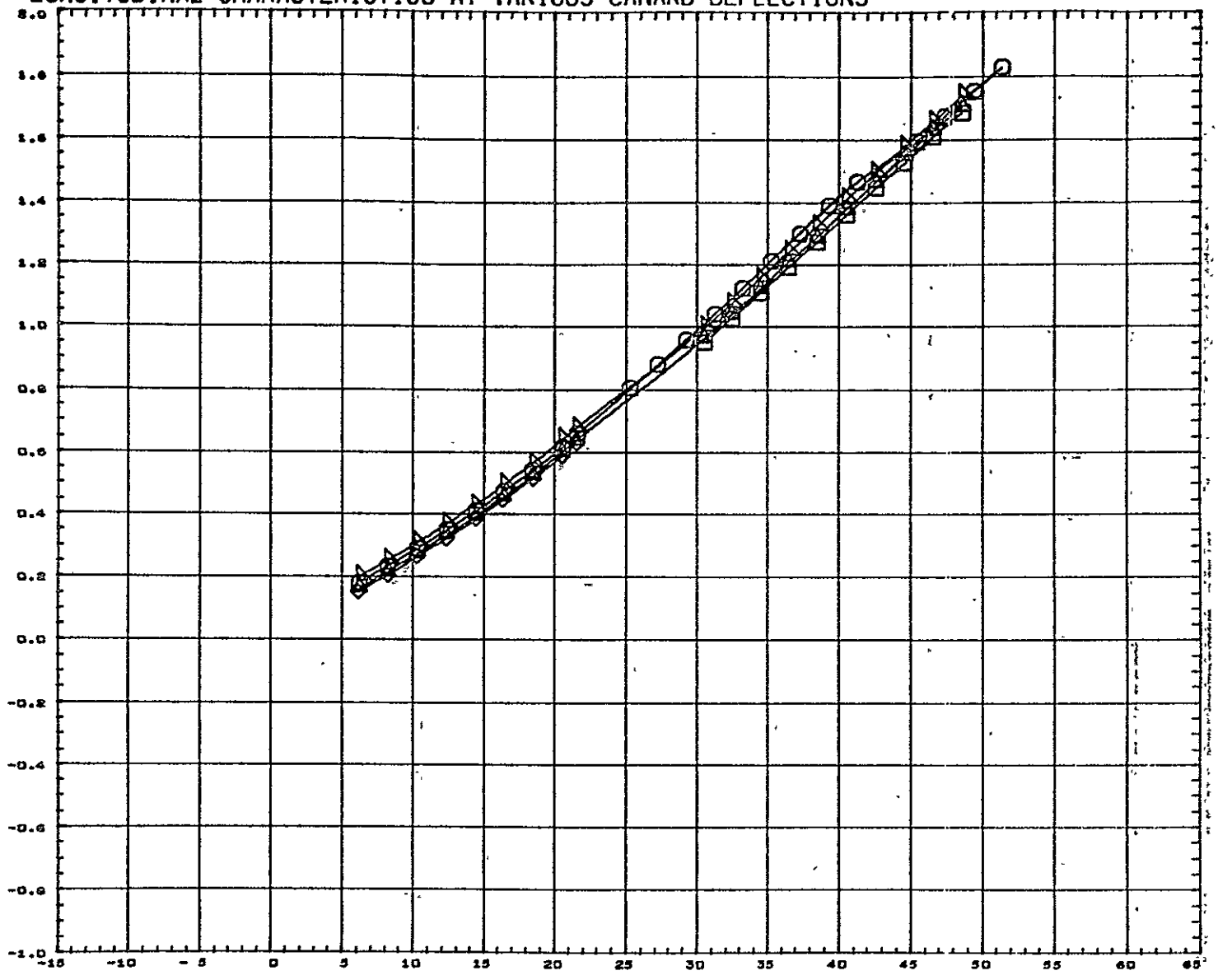


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E26C30)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)		MSFC 461 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

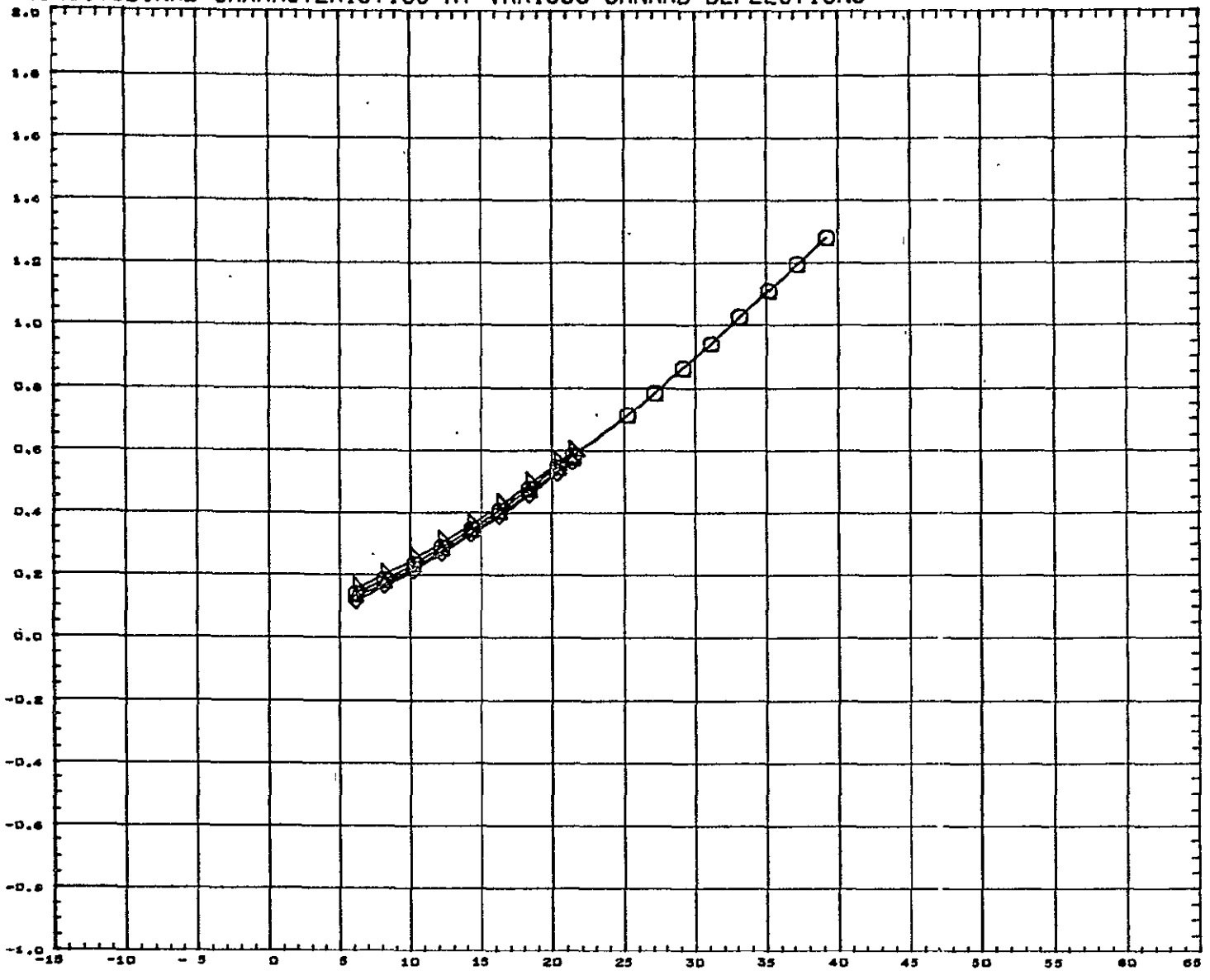


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C30)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

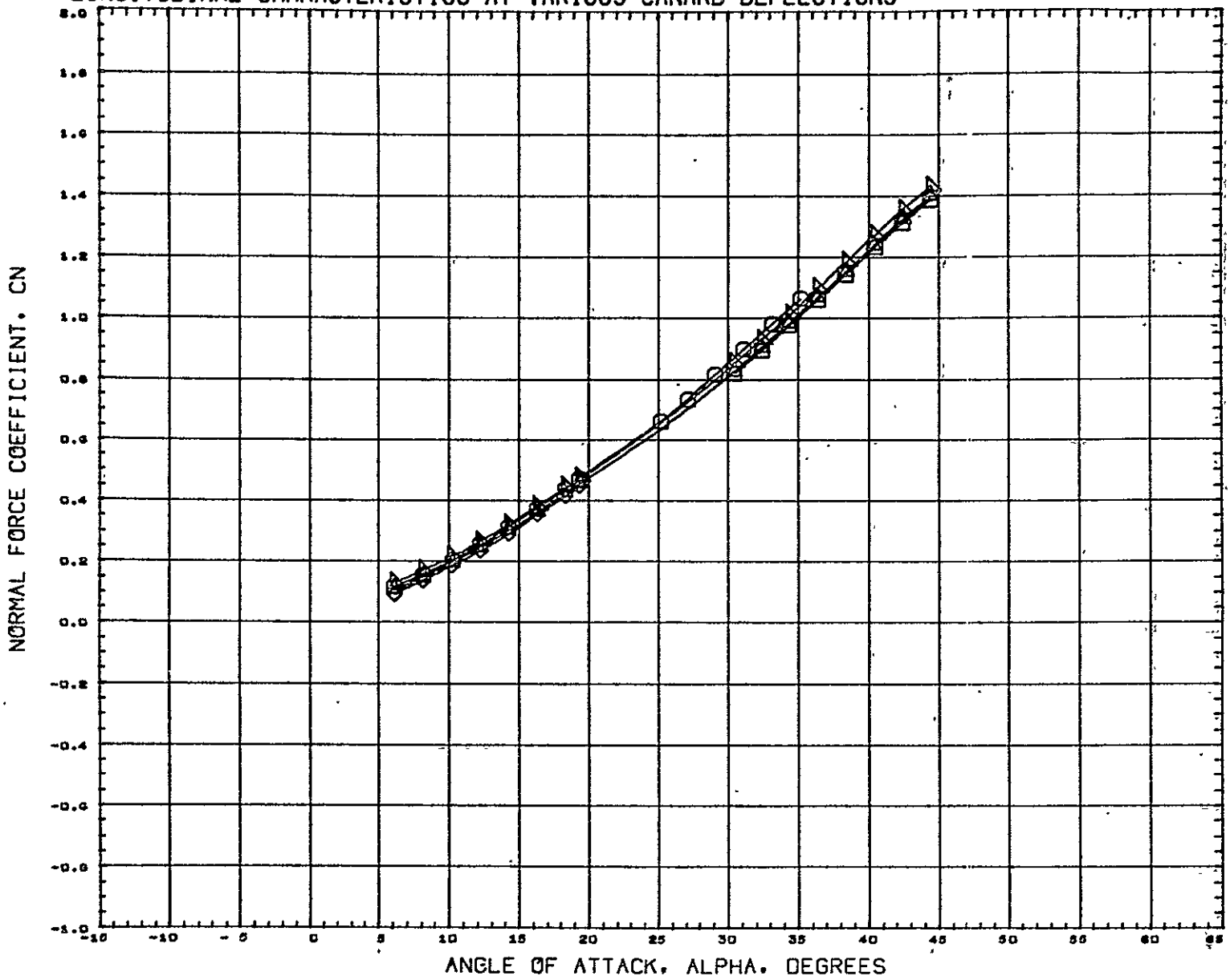


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC401 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		MSFC 401 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 401 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

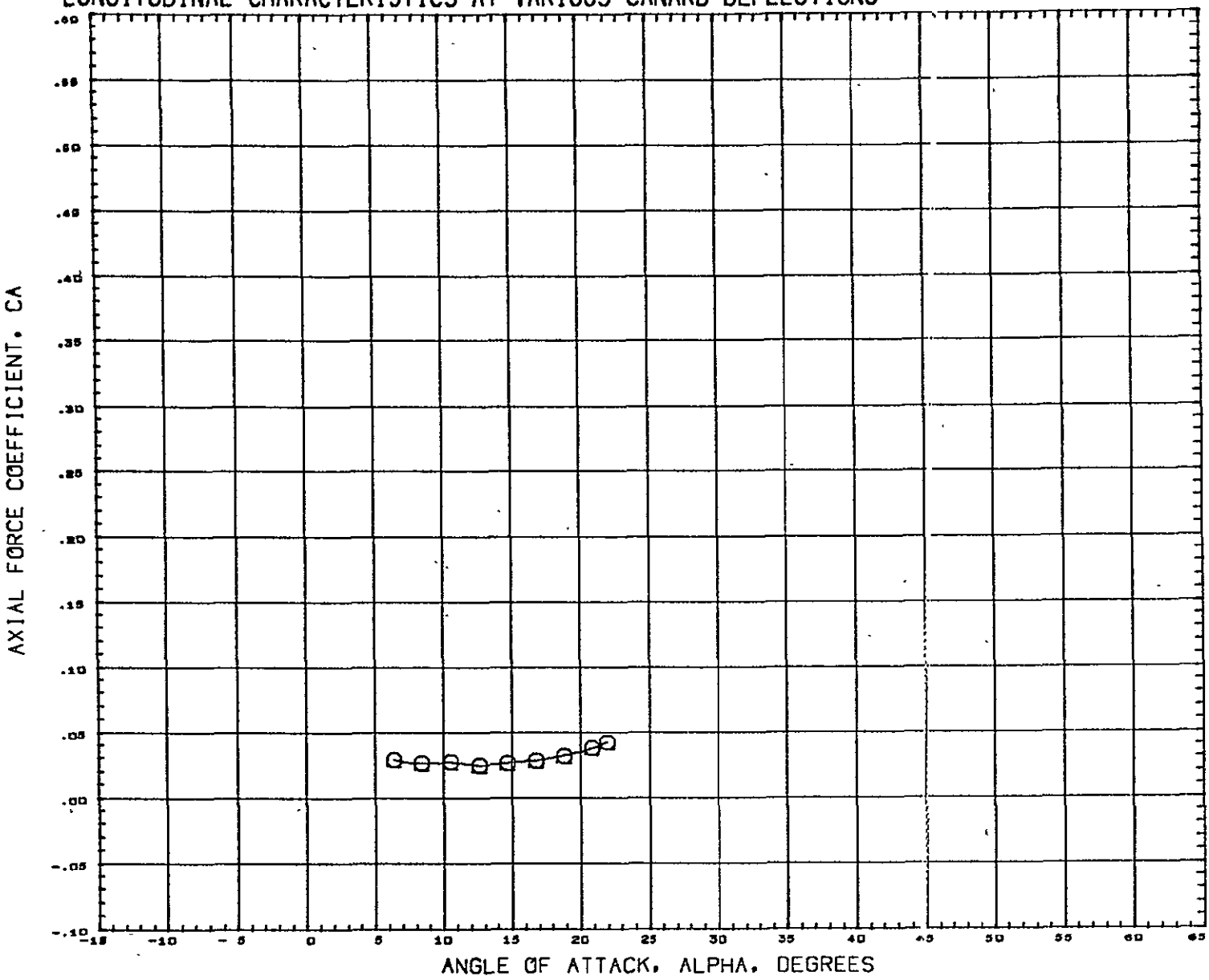


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 4.960

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

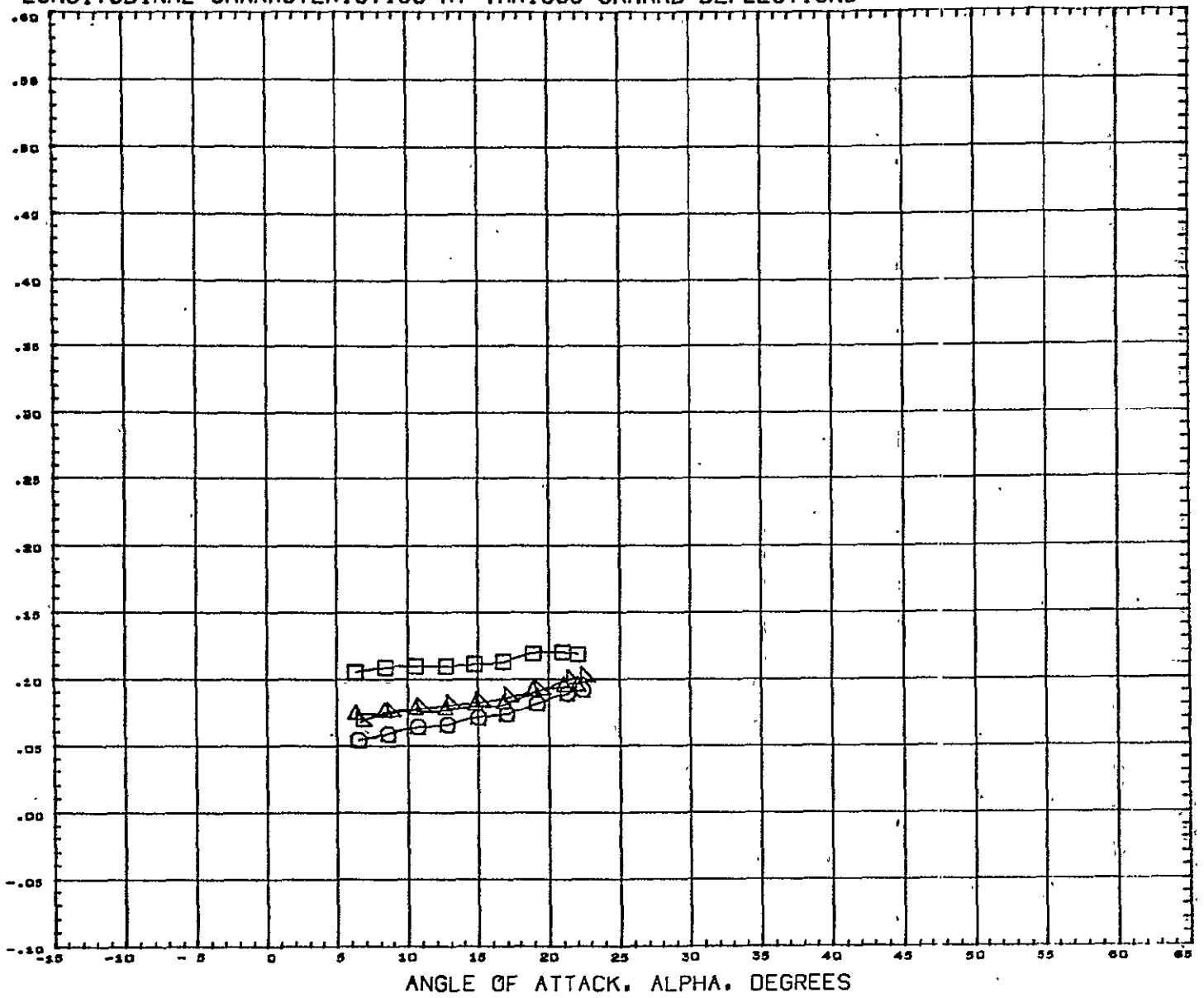


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(CZ0001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(CZ0009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(EZ0C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(CZ0D10)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(CZ0011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

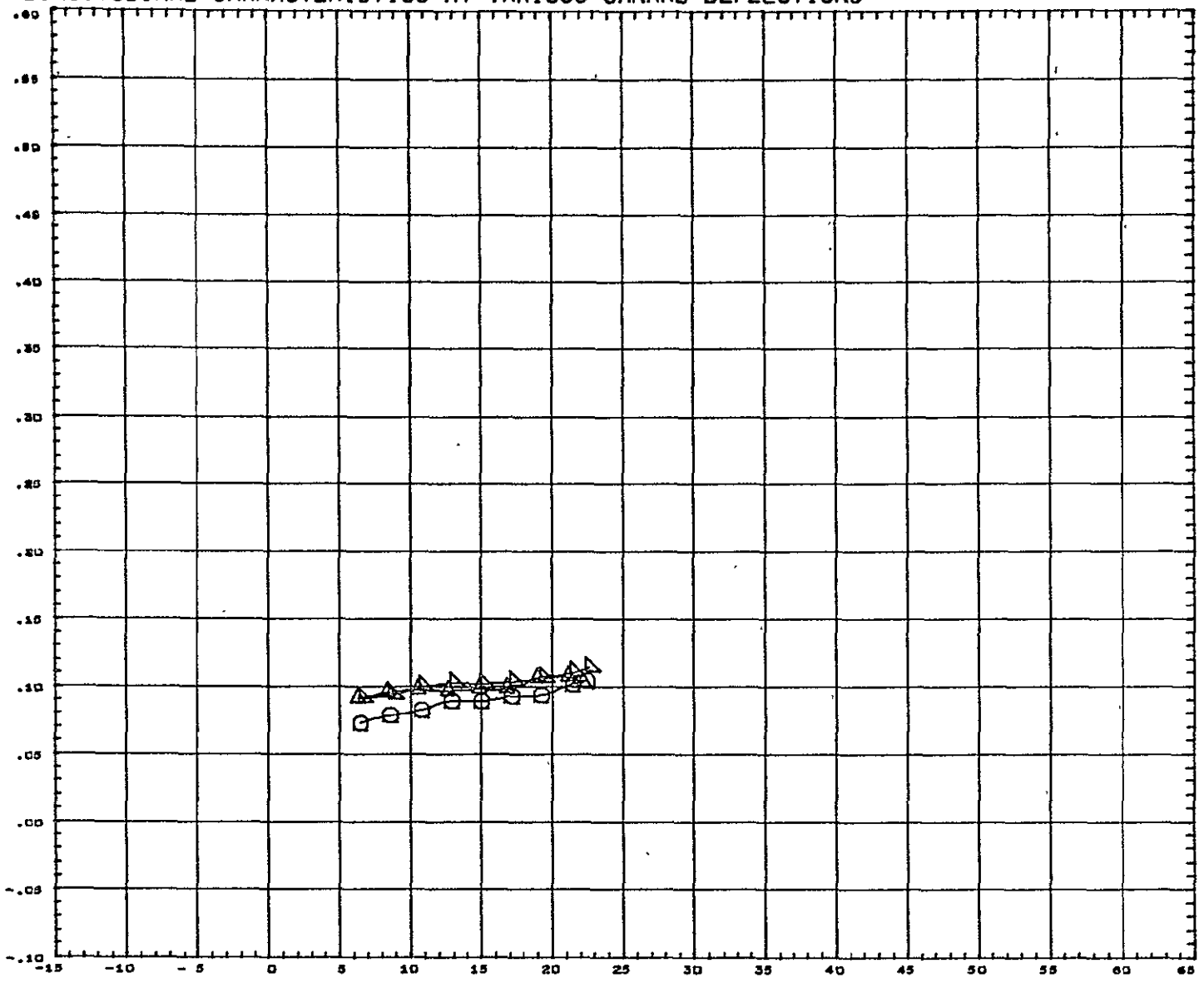


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 0.900

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0930	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

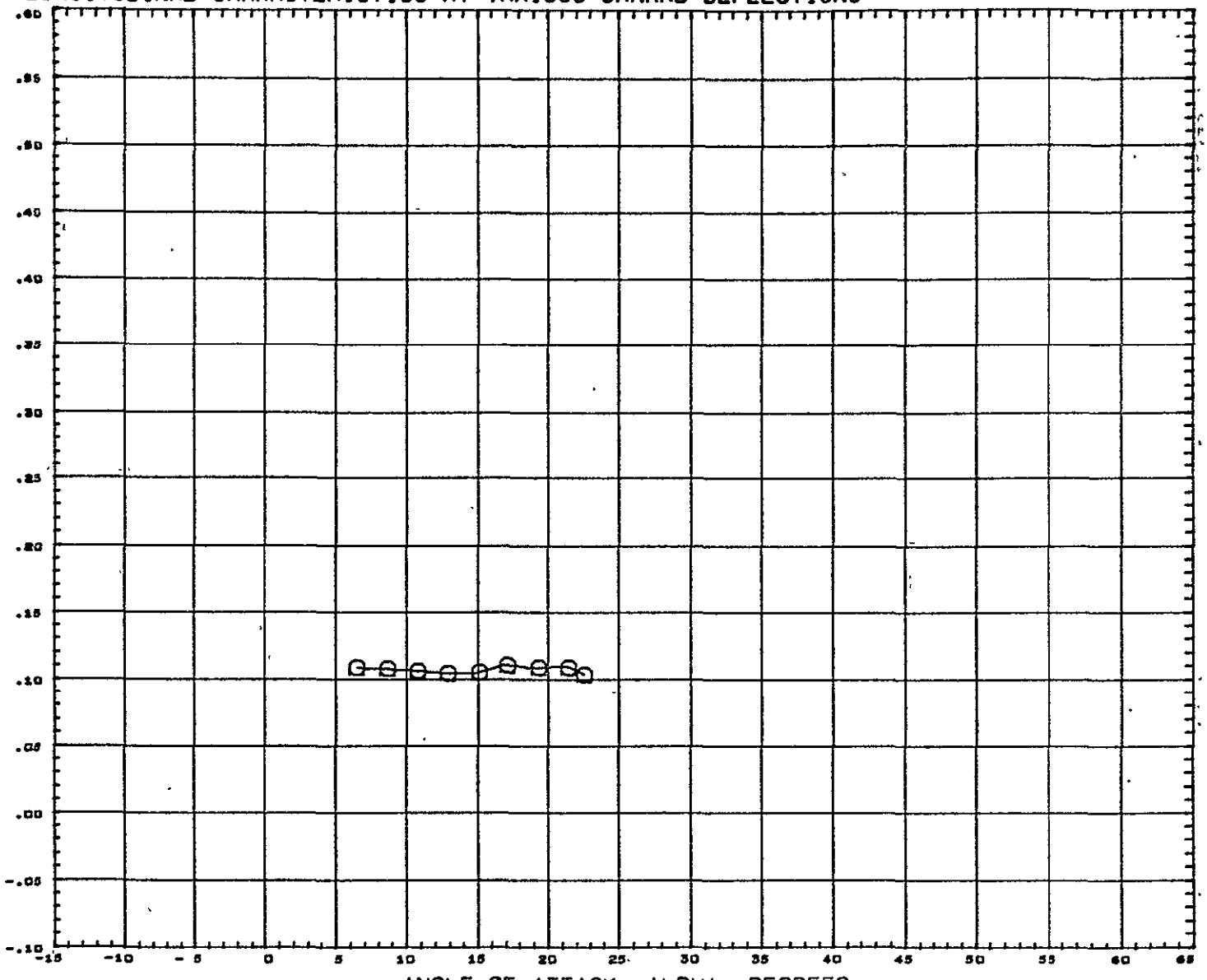


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)	▽	MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 0.954

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0990	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

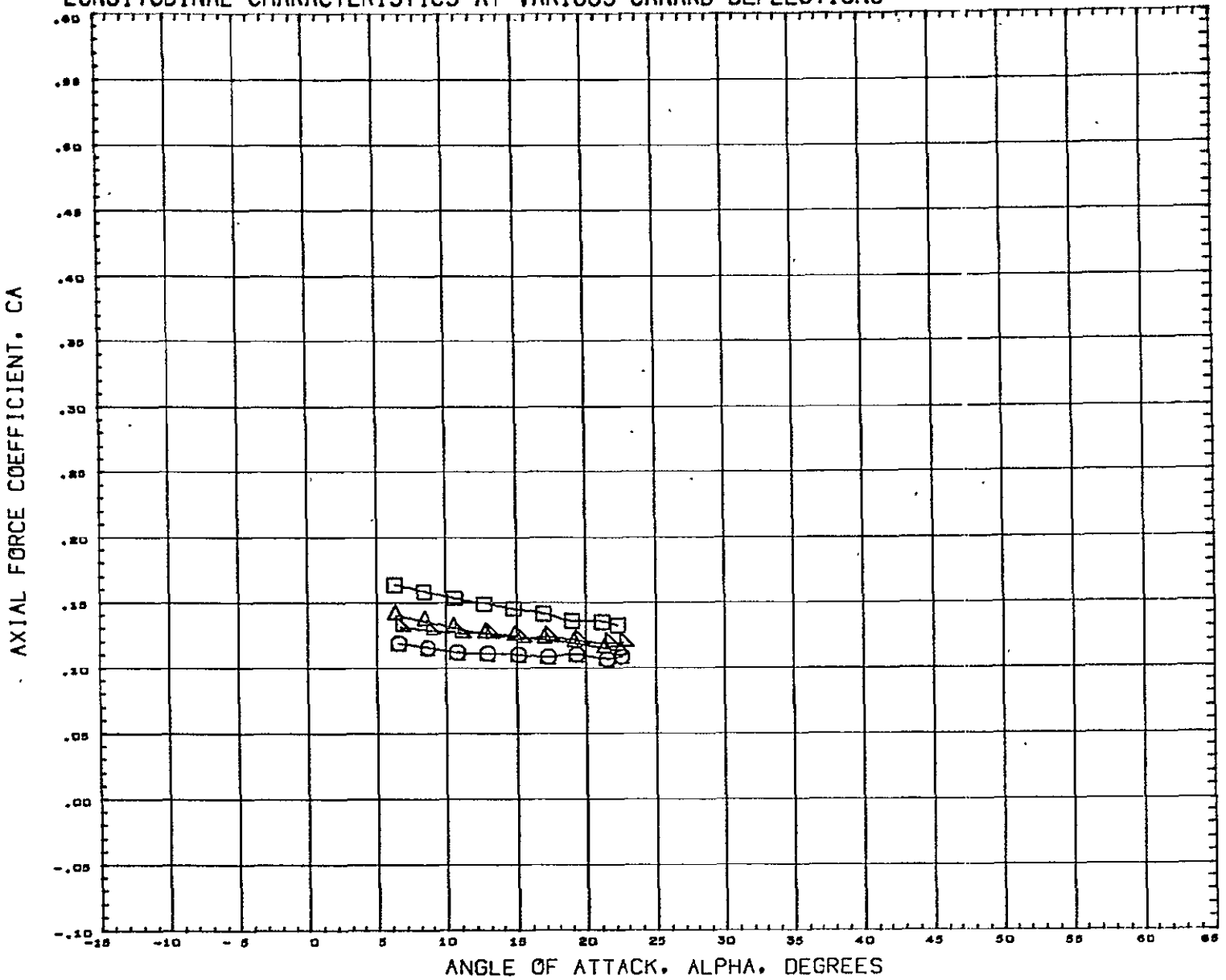


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E26C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)	◁	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 1.007

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

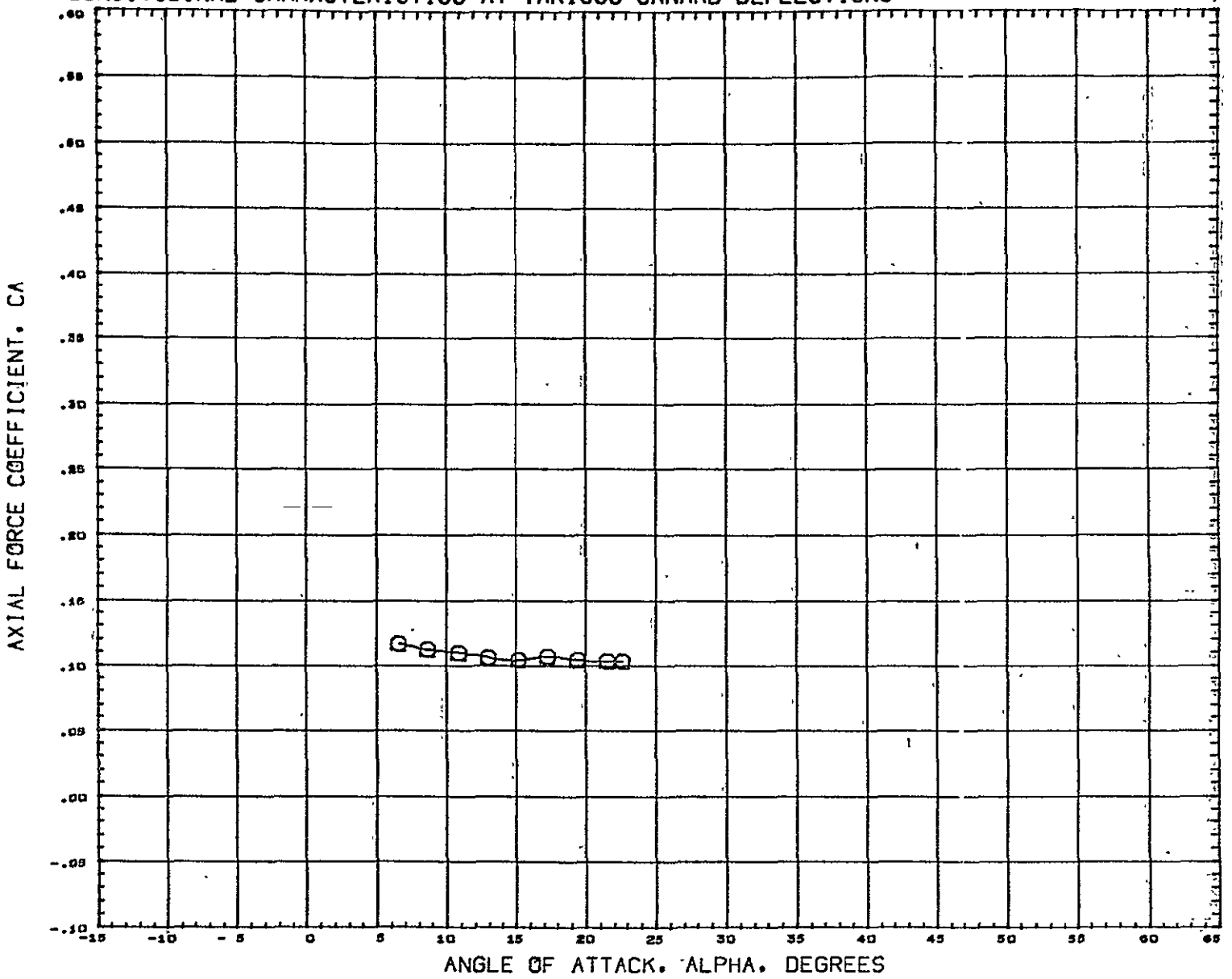


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E26C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C26011)		MSFC 461 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.051

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

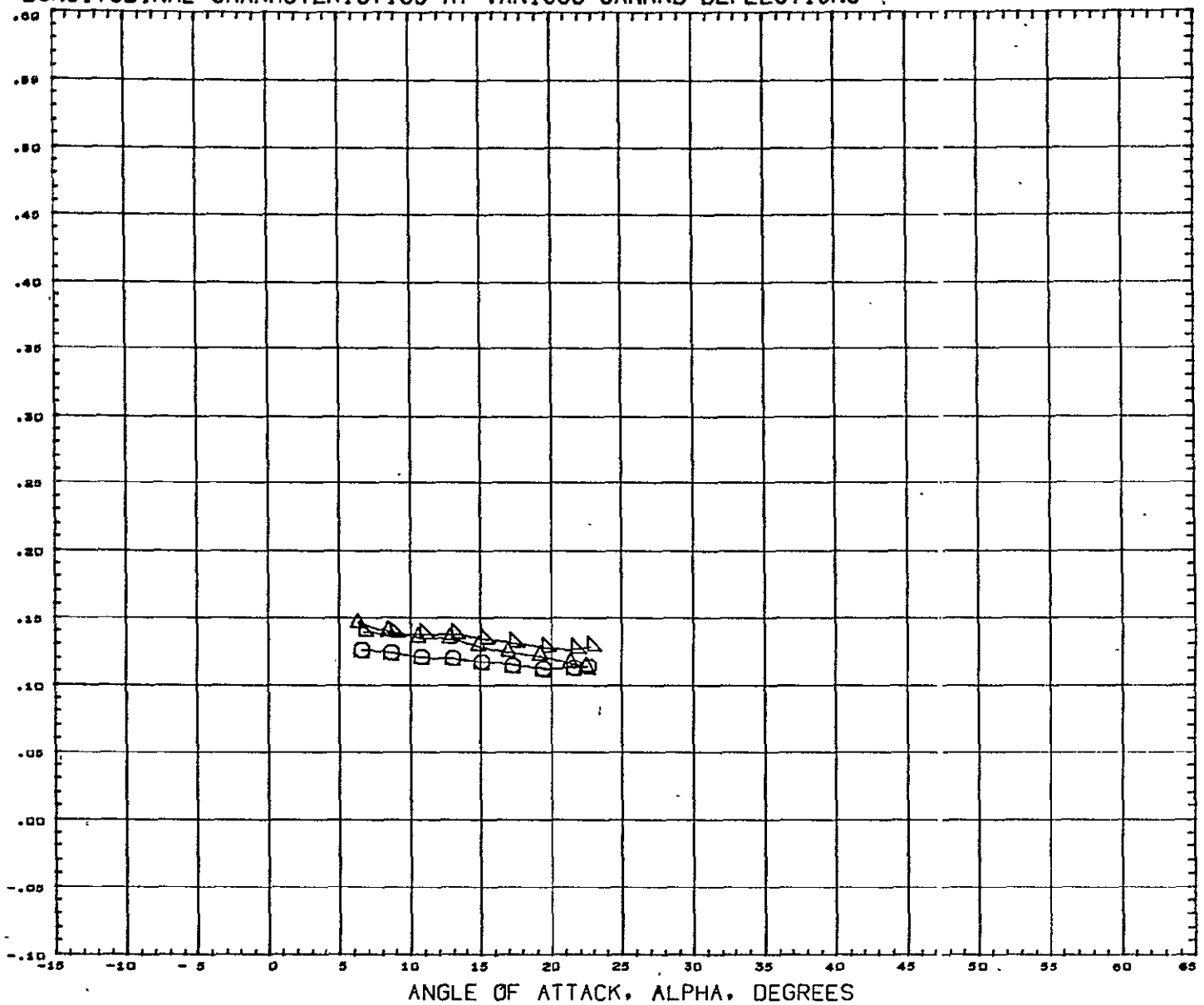


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E28C5D)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 1.105

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

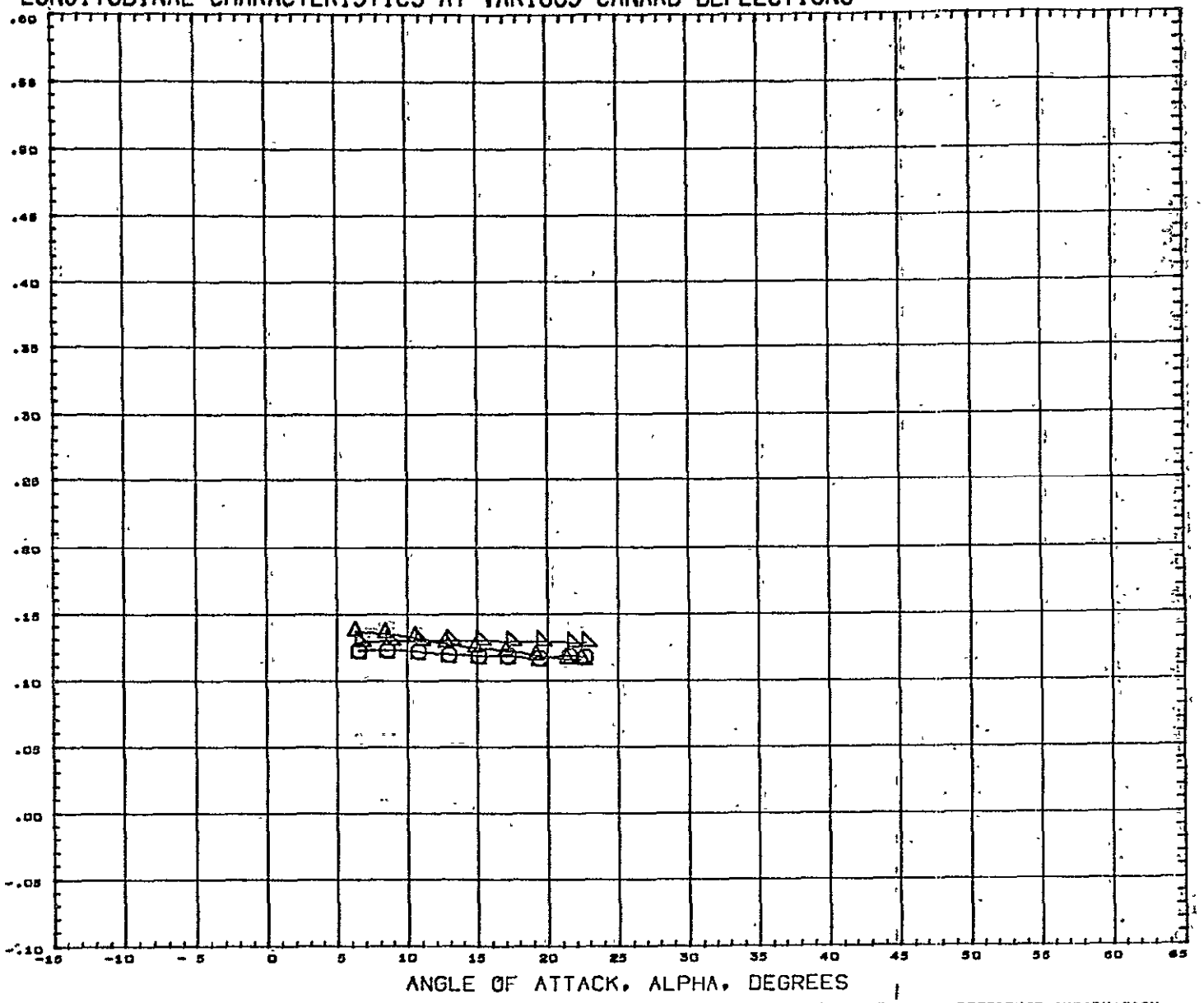


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.201

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

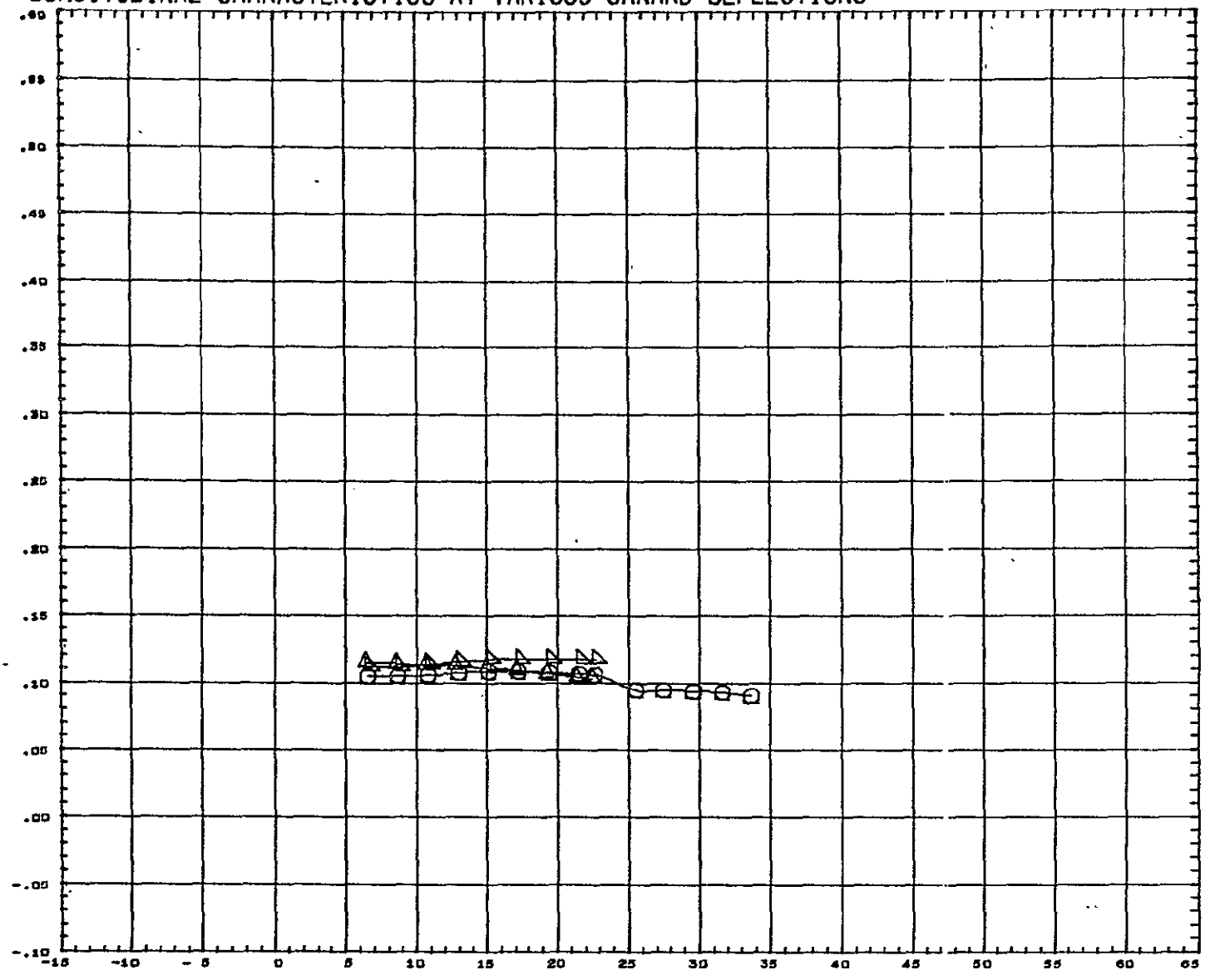


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(CZ6001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(CZ6009)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(EZ6C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(CZ6010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(CZ6011)	⊿	MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.462

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

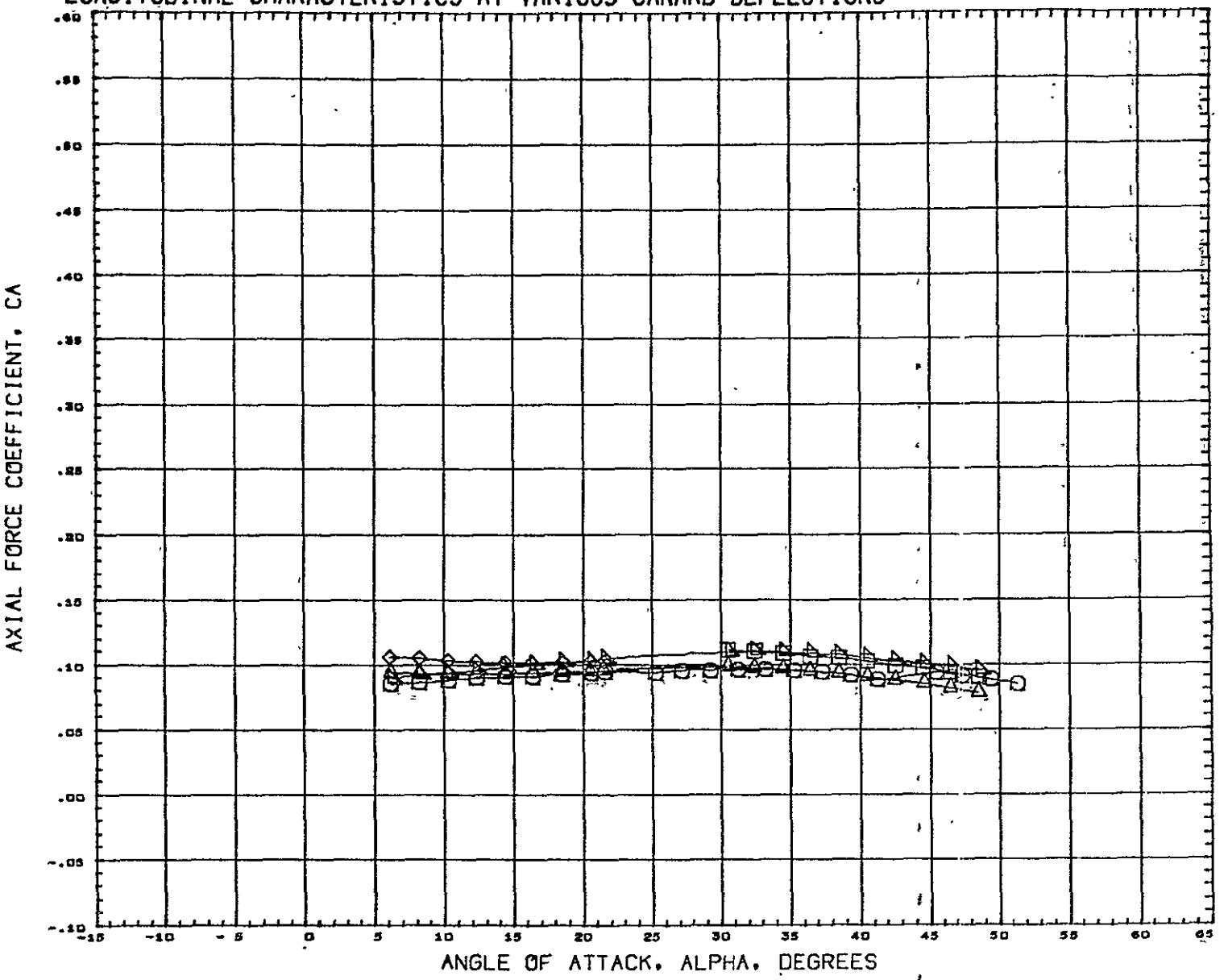


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		M5FC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		M5FC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28D10)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		M5FC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.958

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

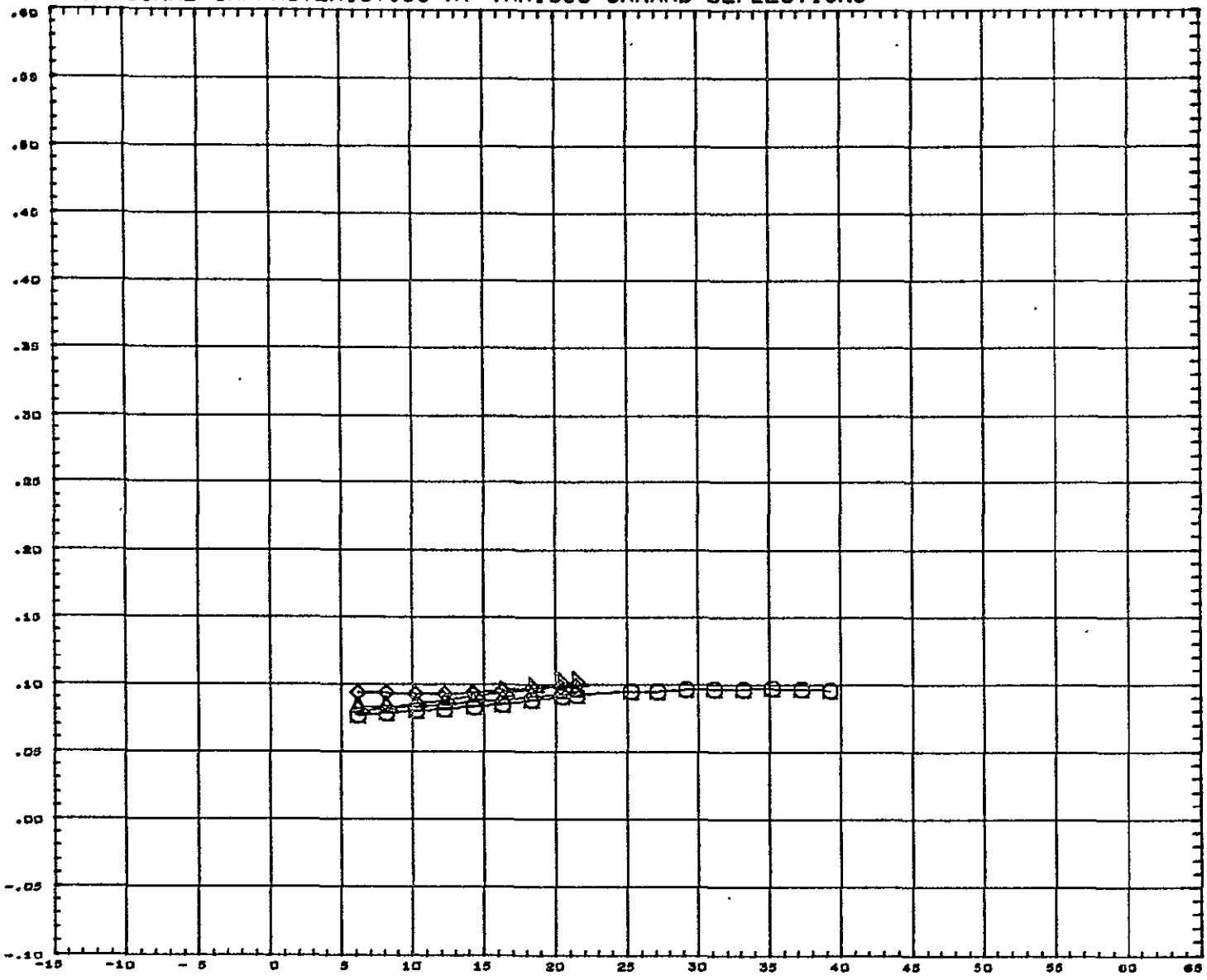


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

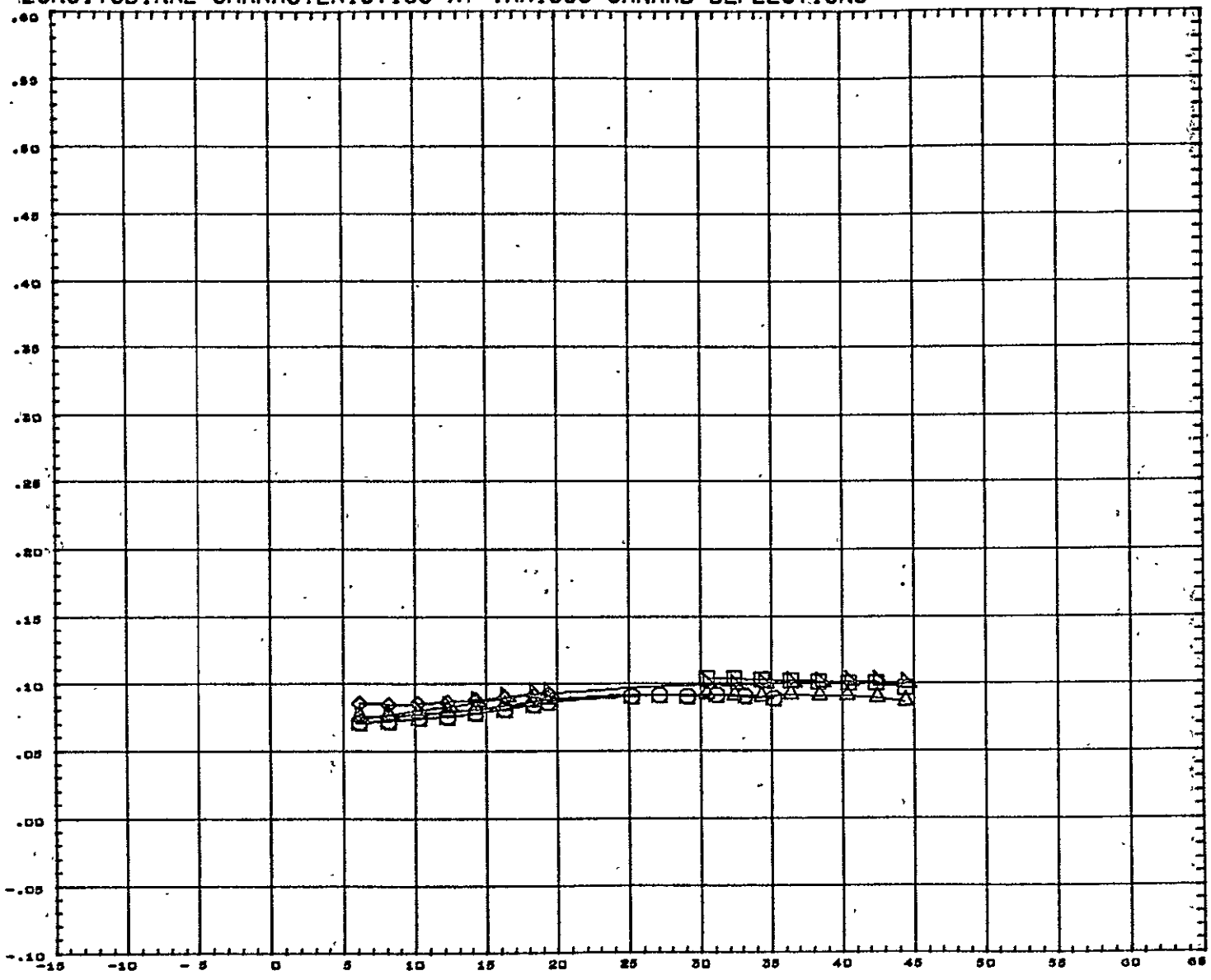


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E26C50)		MSFC 461 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C26010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)		MSFC 461 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0930	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

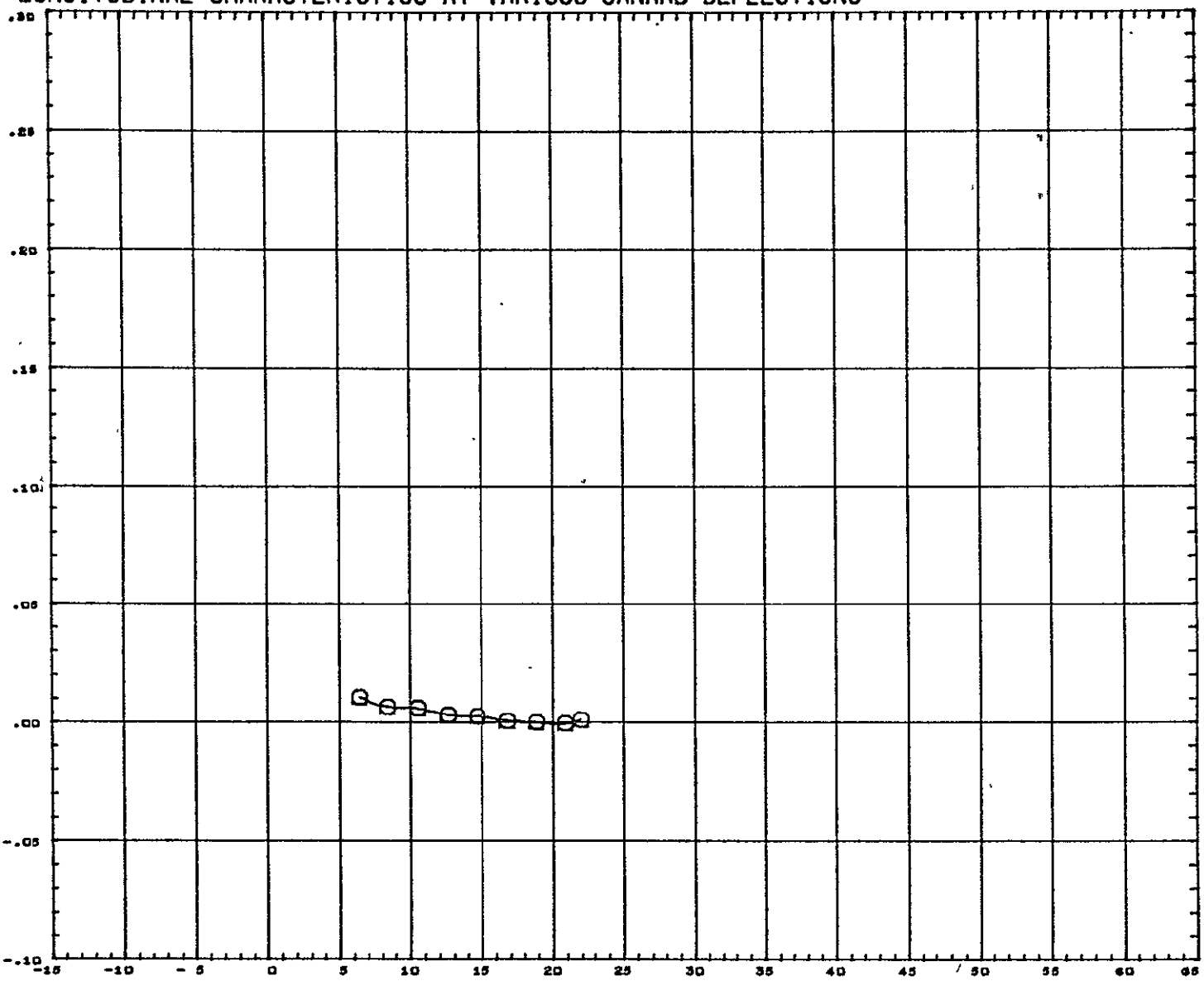


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 4.960

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

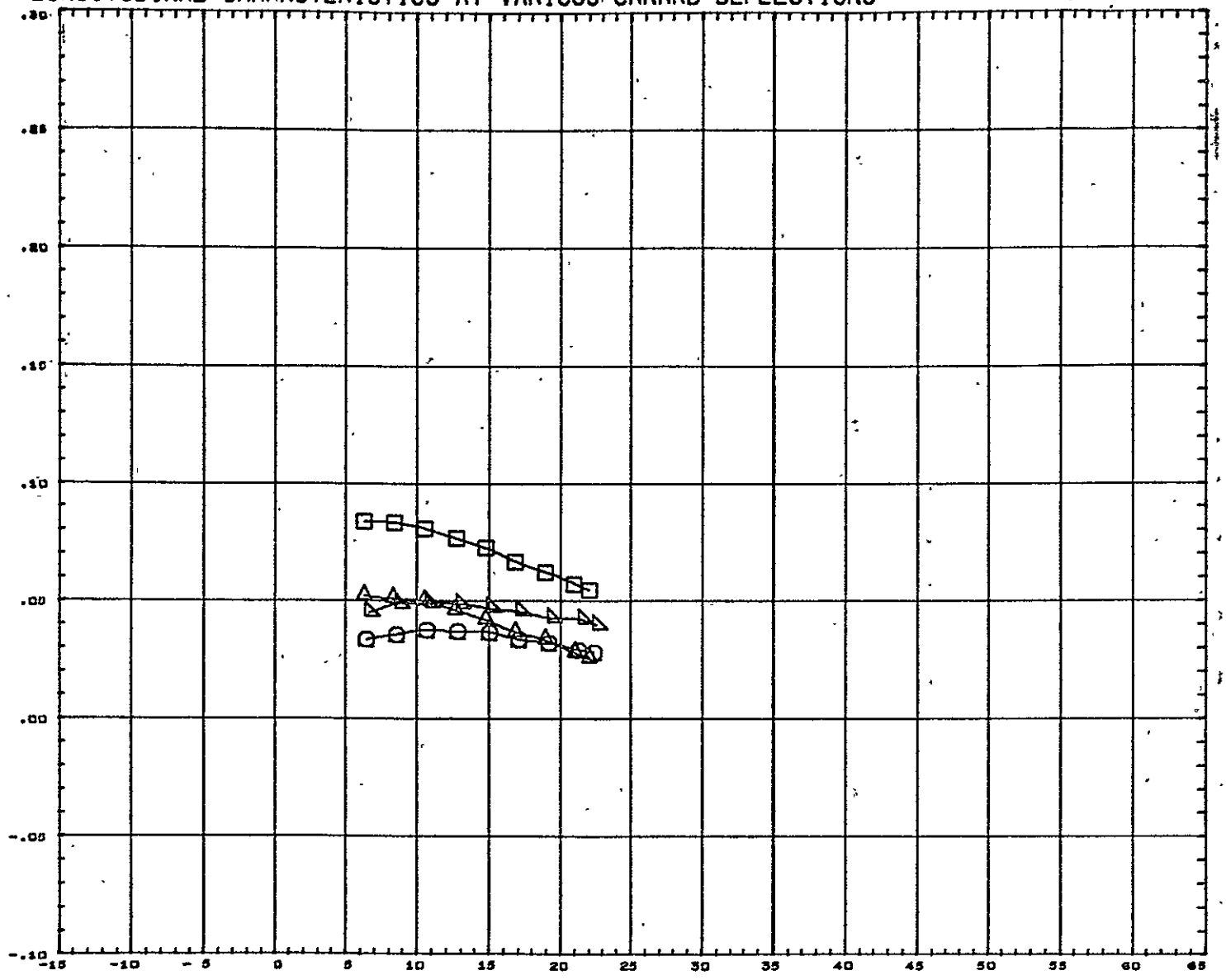


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)		M3FC401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E26C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

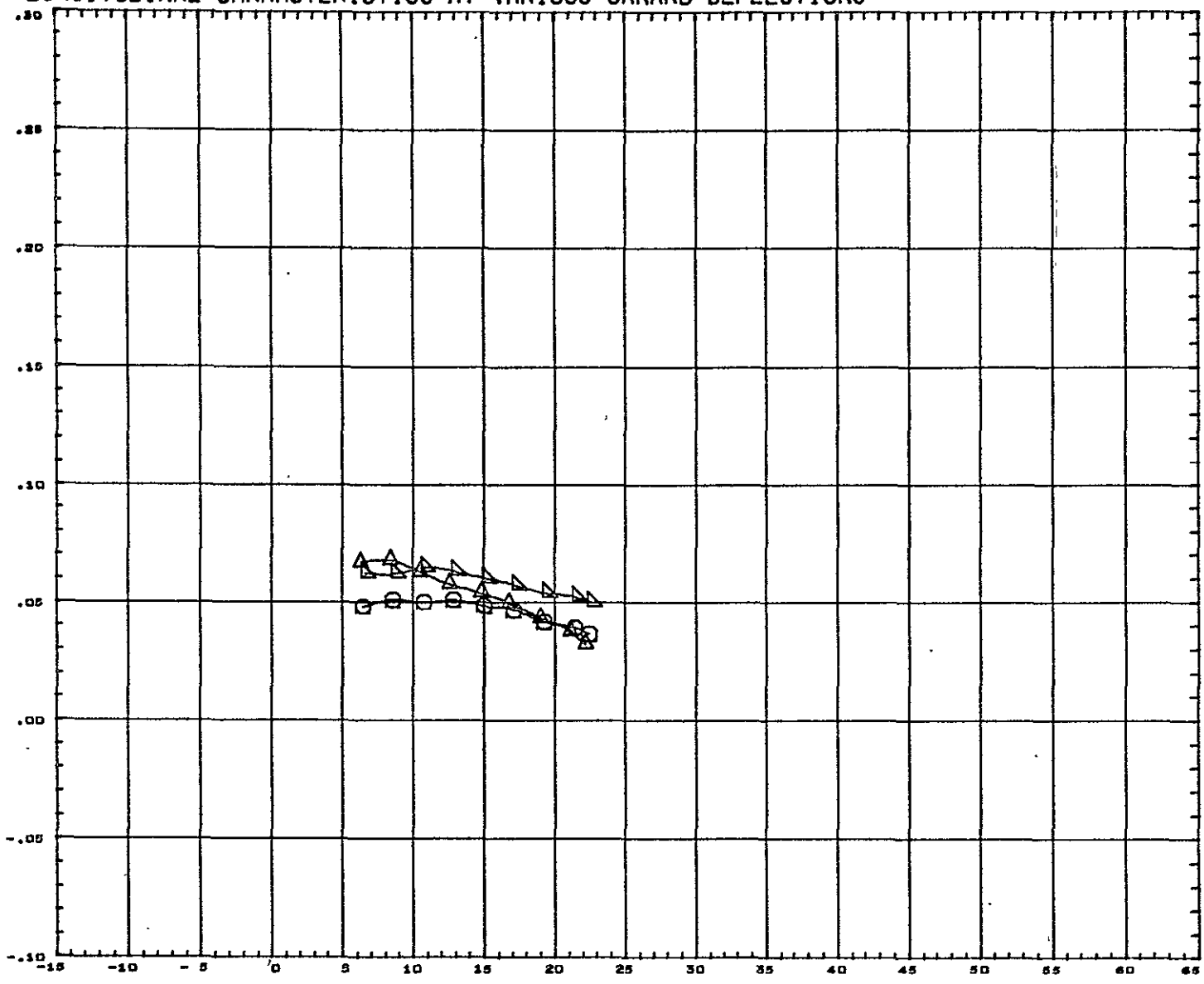


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 0.900

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

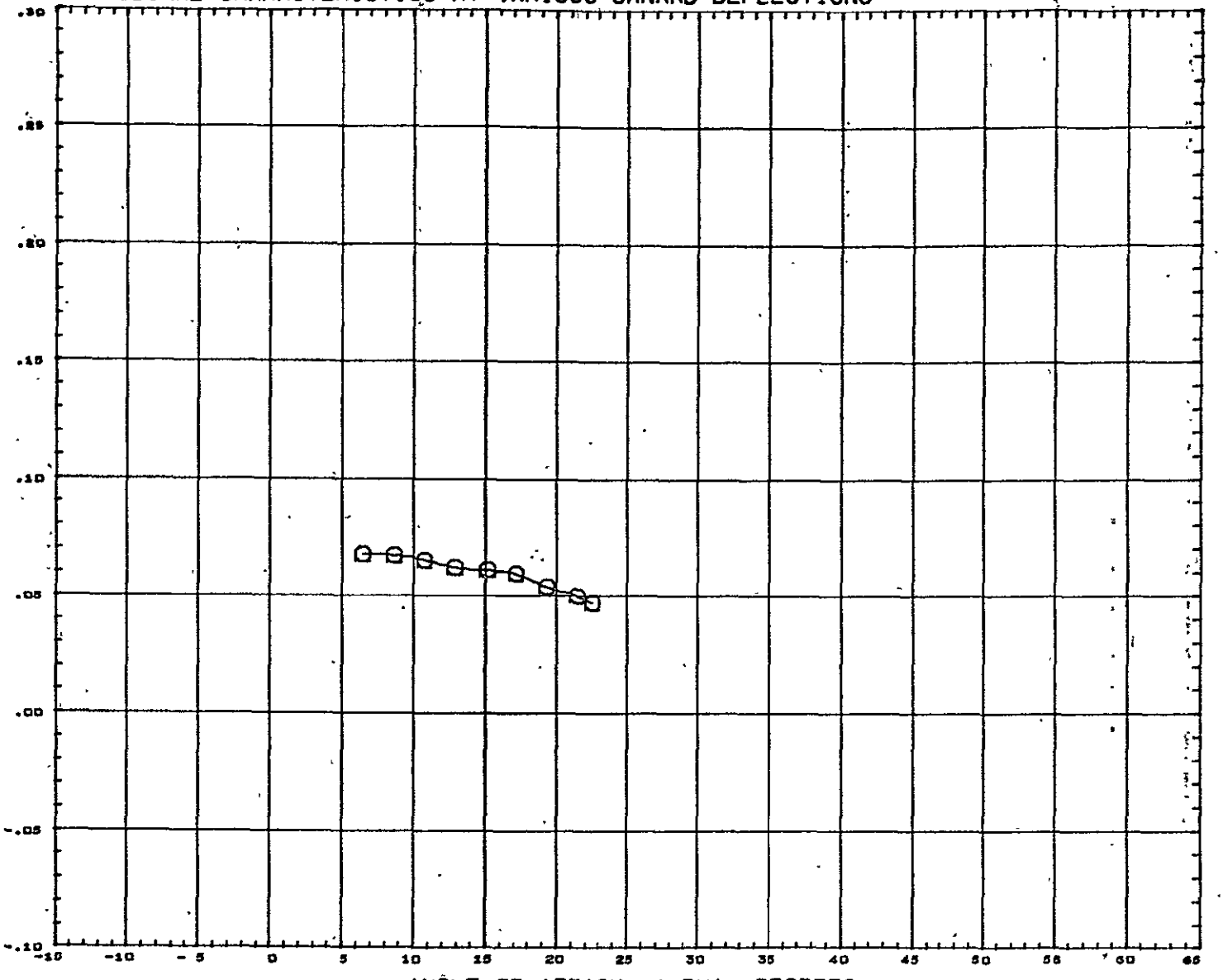


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)	▽	MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 0.954

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

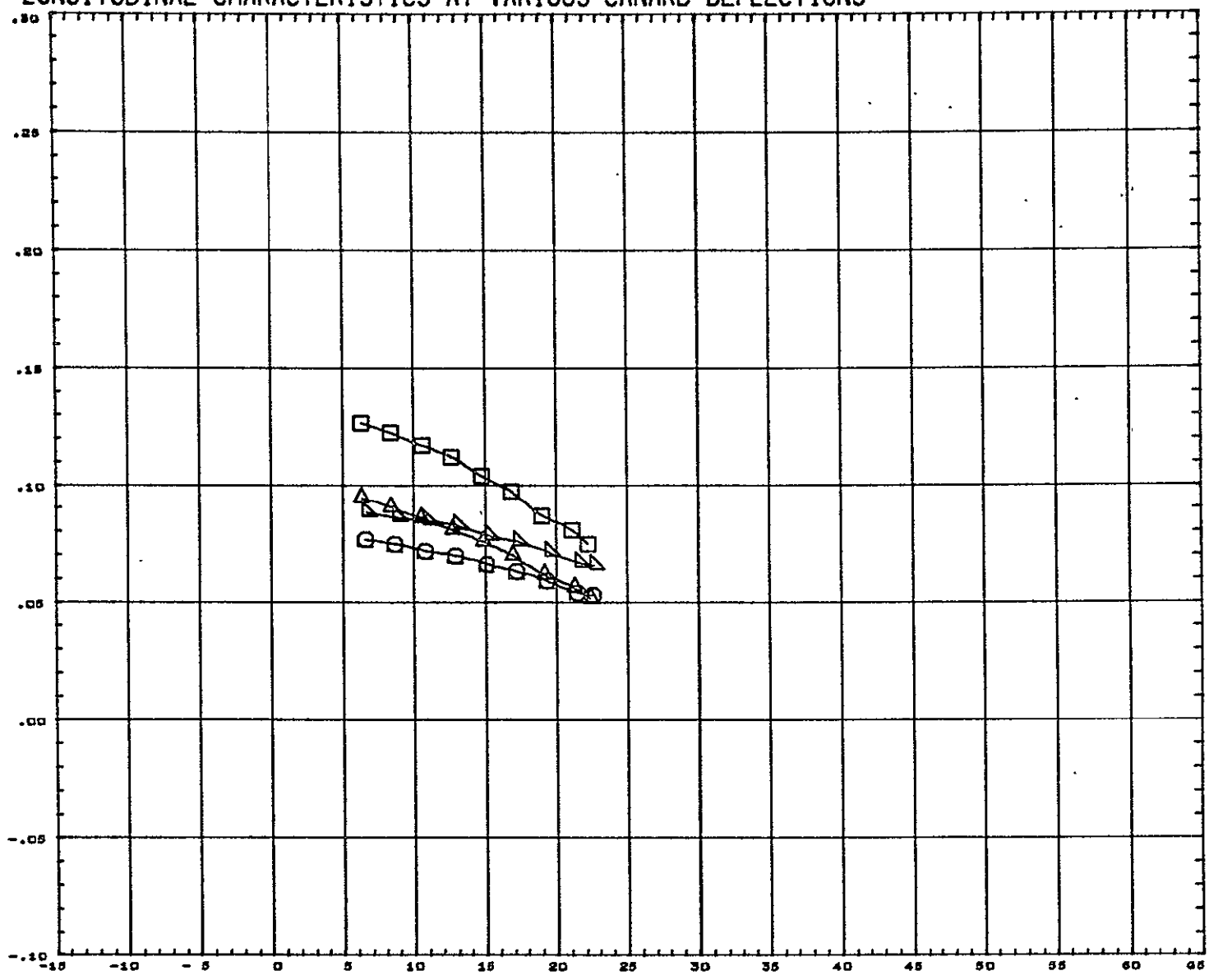


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E26C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 1.007

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0900	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

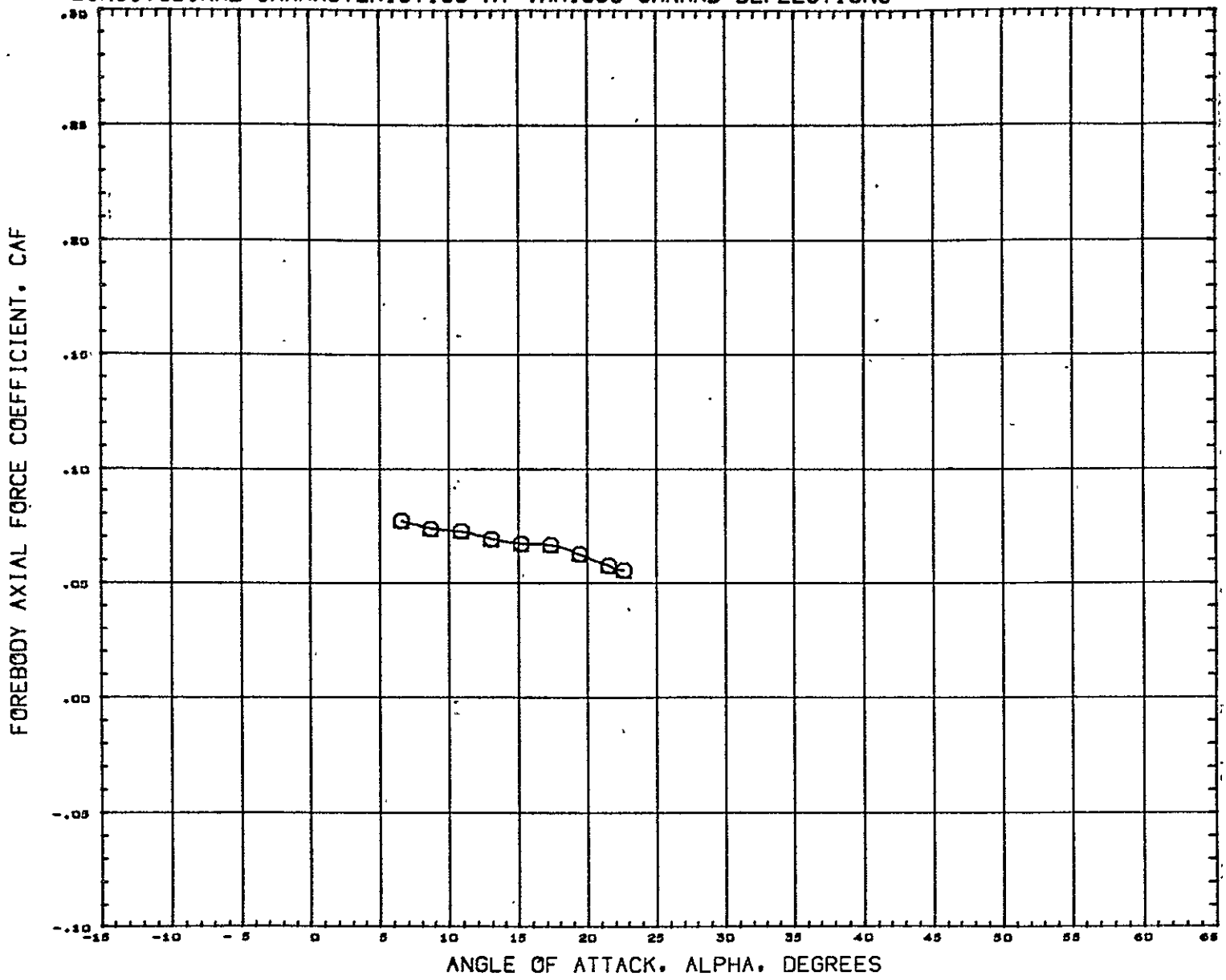


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.051

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

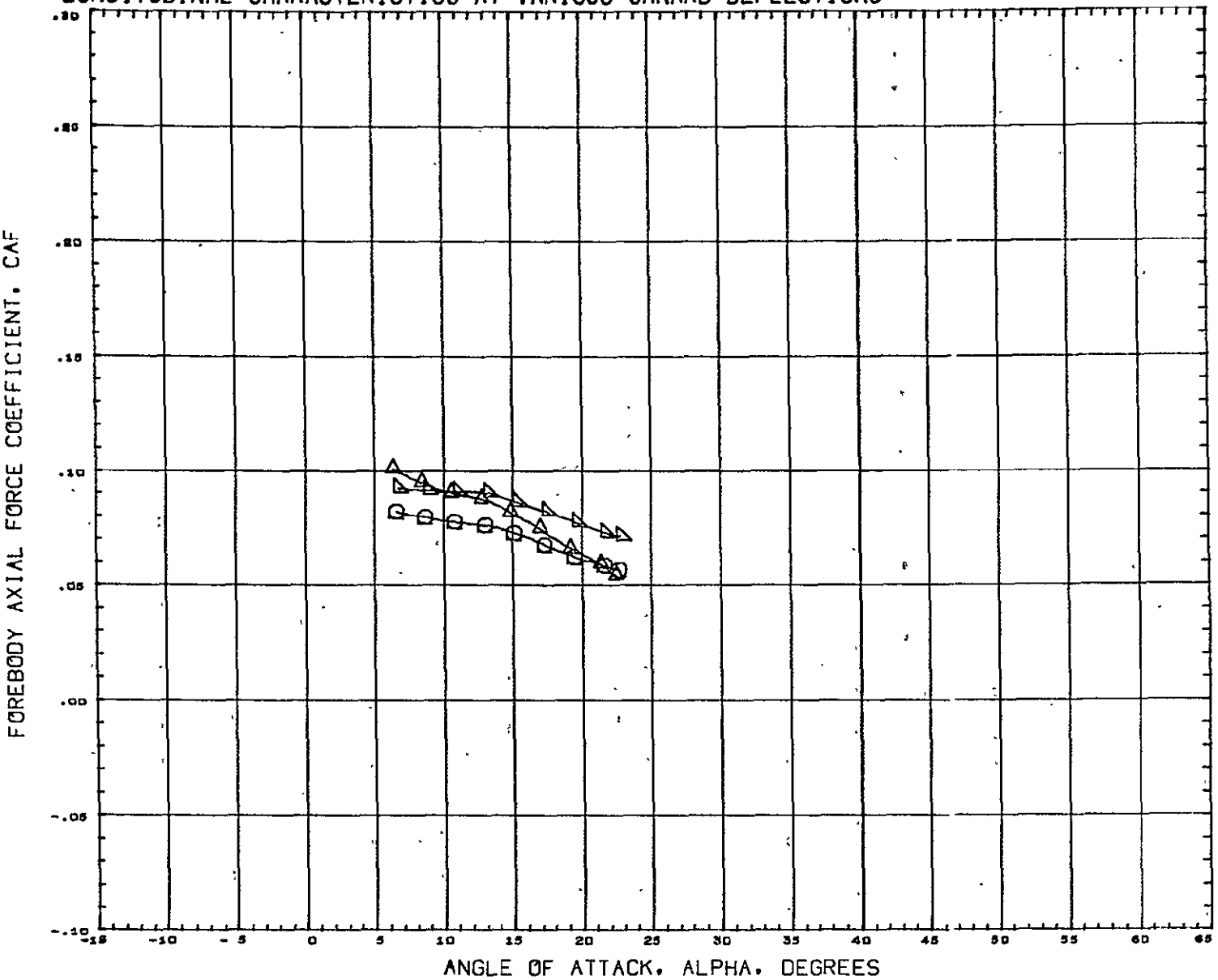


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E28C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 1.105

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

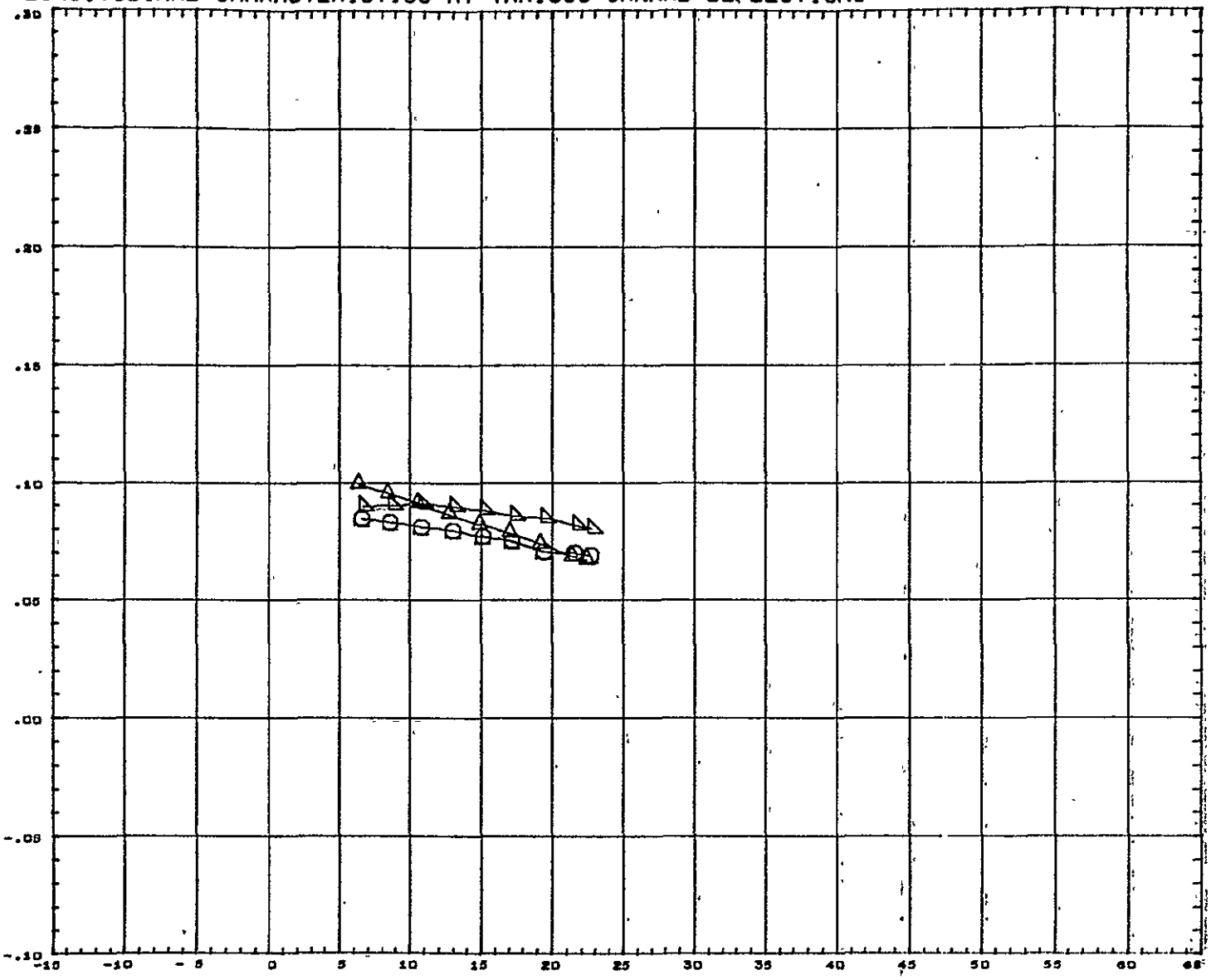


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

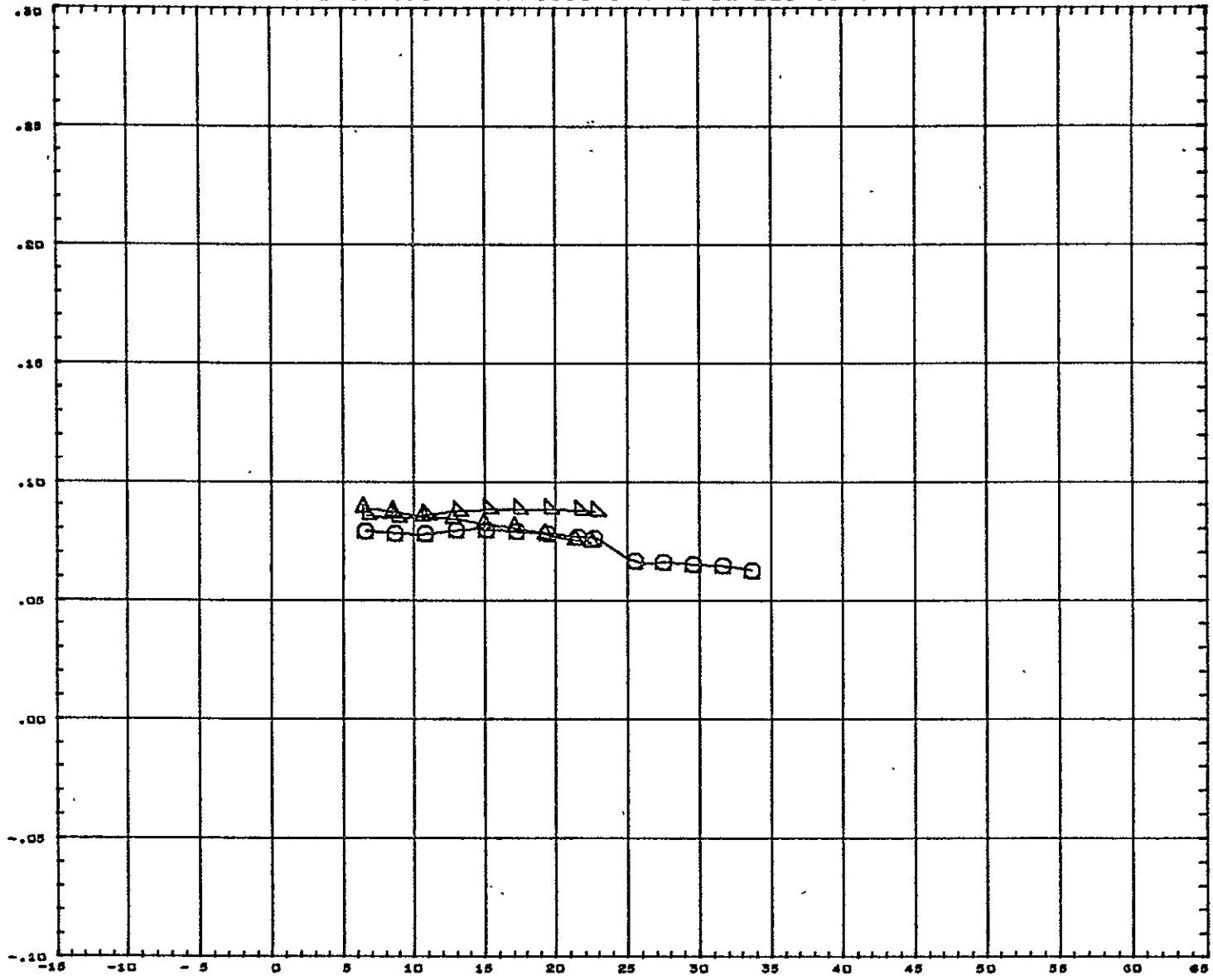


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C5D)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)	▽	MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.462

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

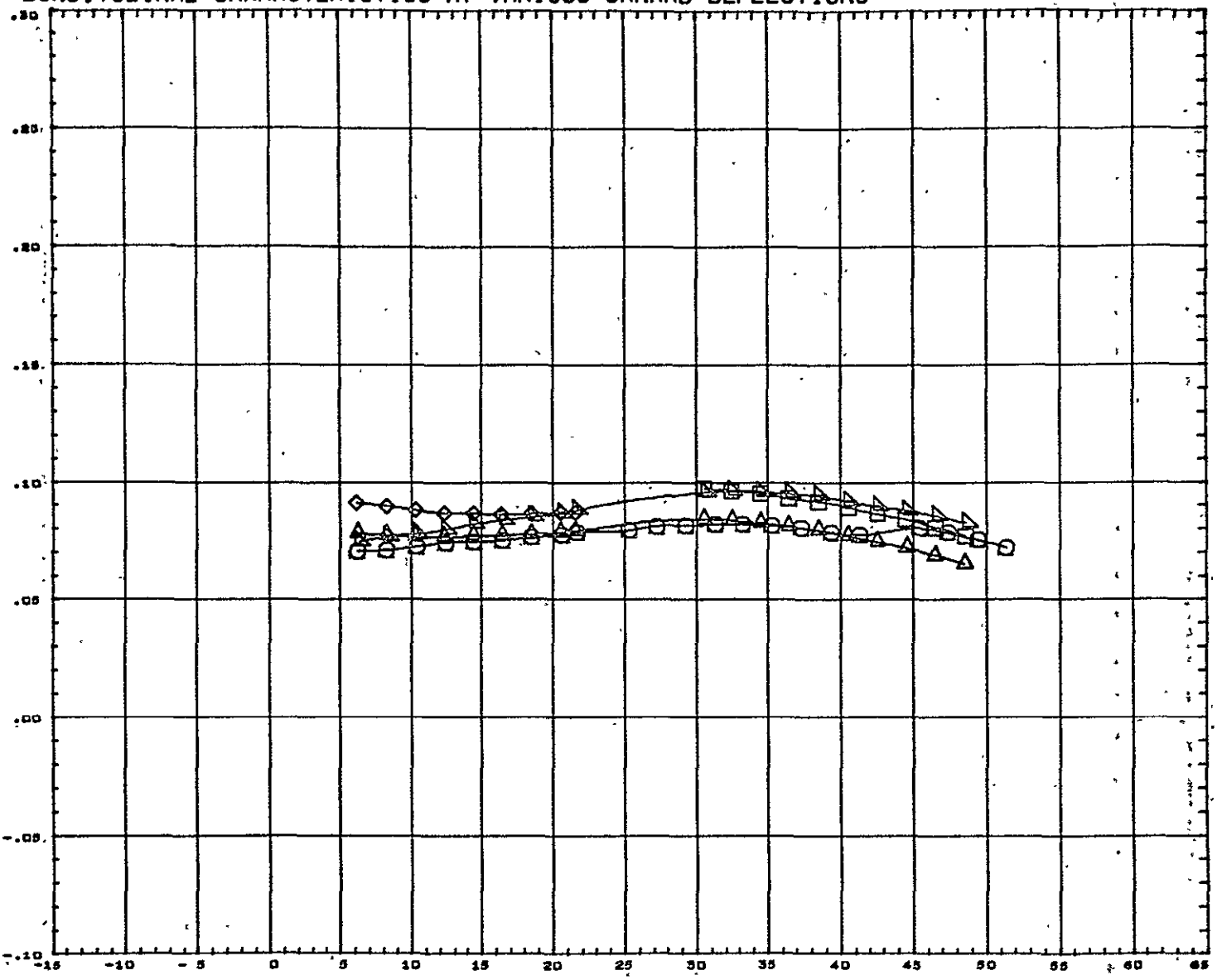


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.958

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0900	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

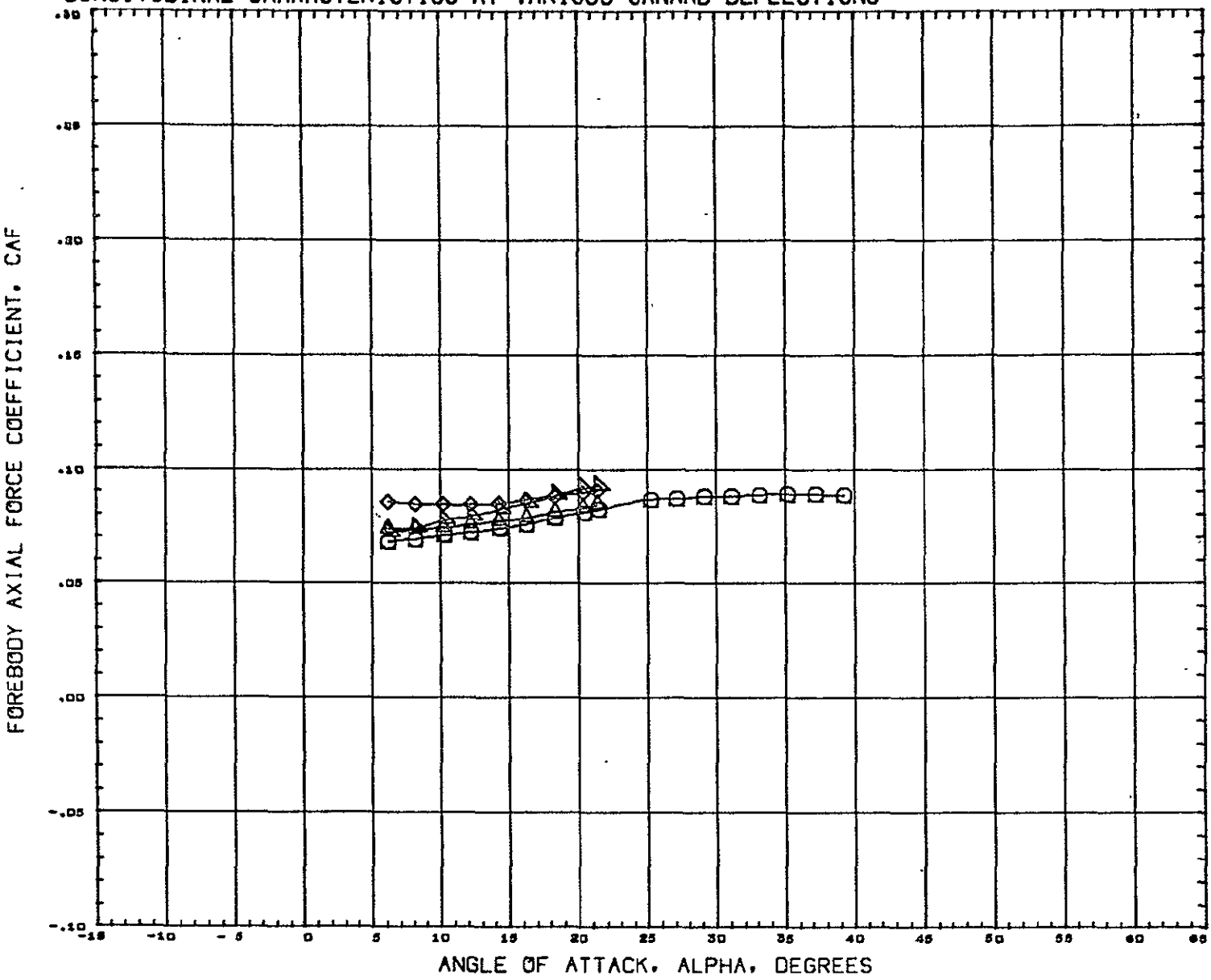


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)	◇	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)	▷	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)	⬠	MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

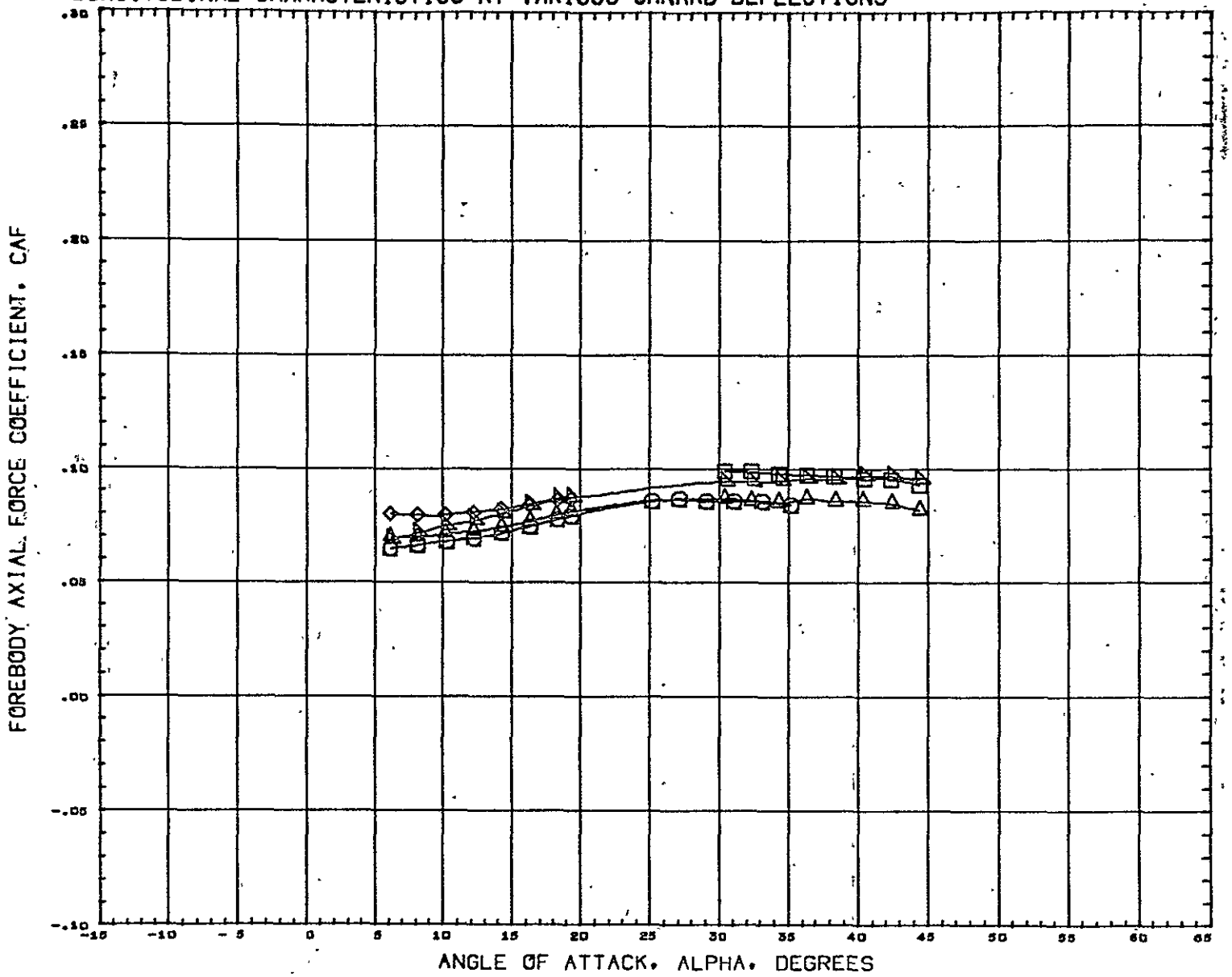


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E20C50)	◇	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)	□	MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

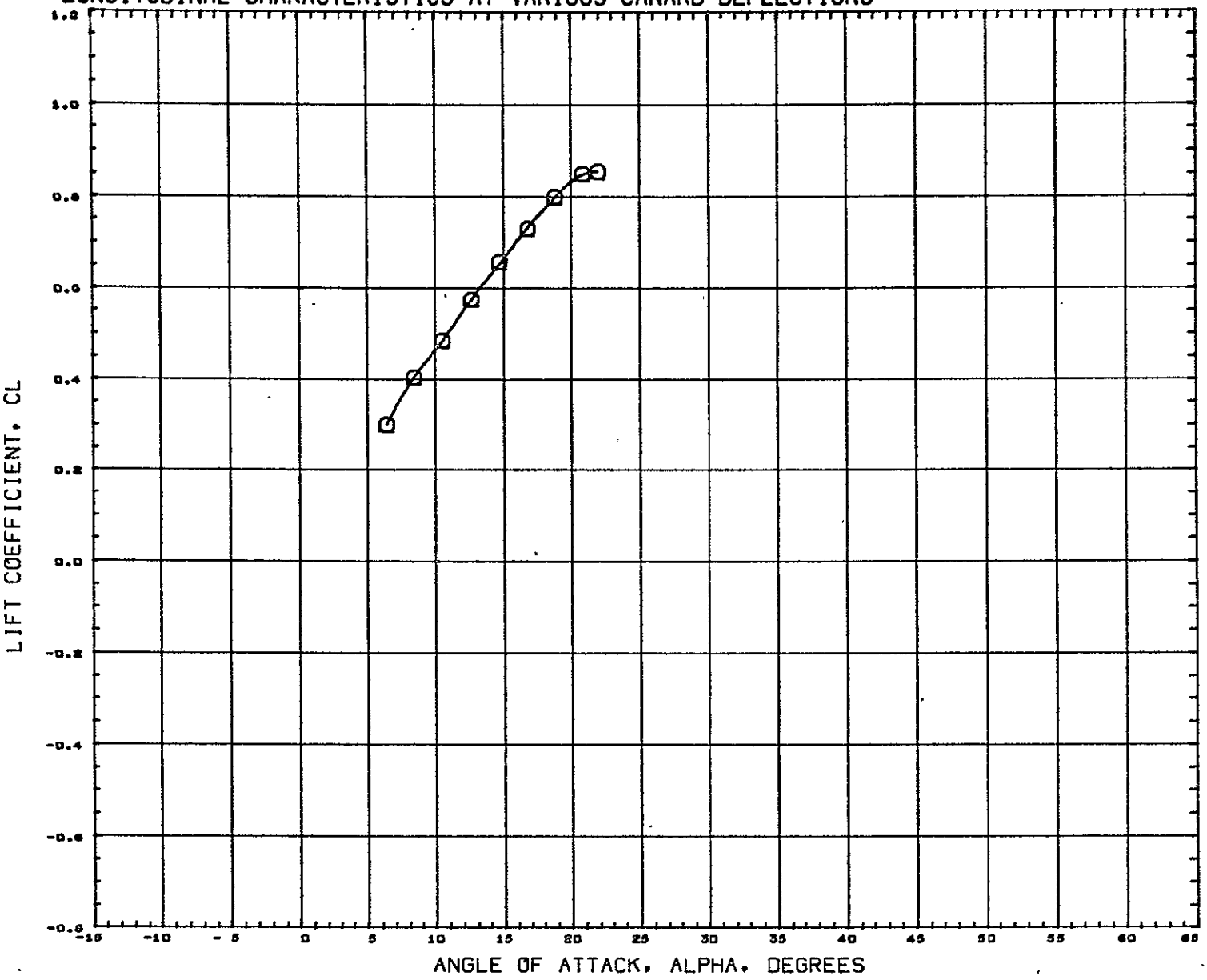


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	M8FC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	M8FC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)	◇	M8FC 461 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)	□	M8FC461 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)	▽	M8FC 461 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 4.960

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

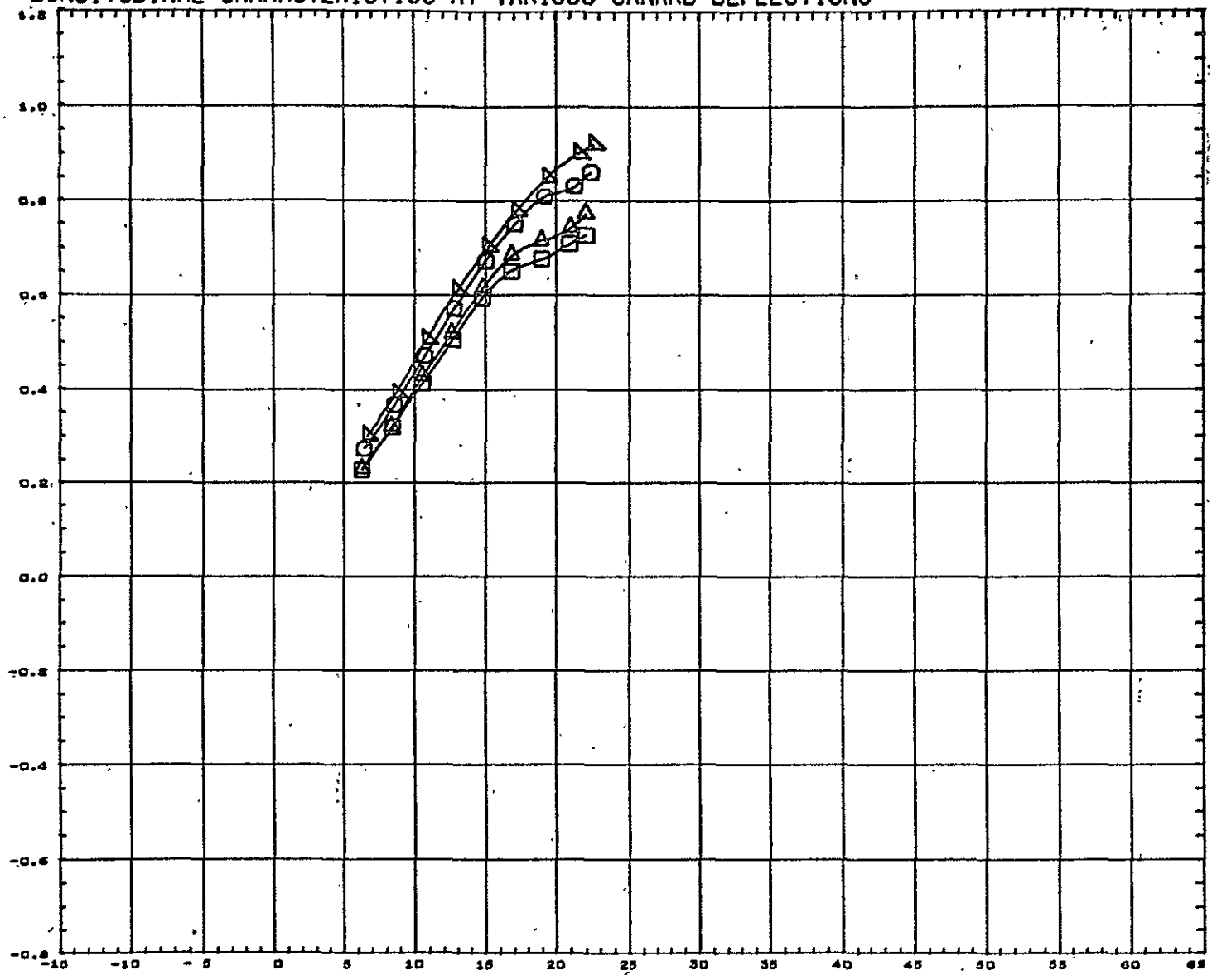


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

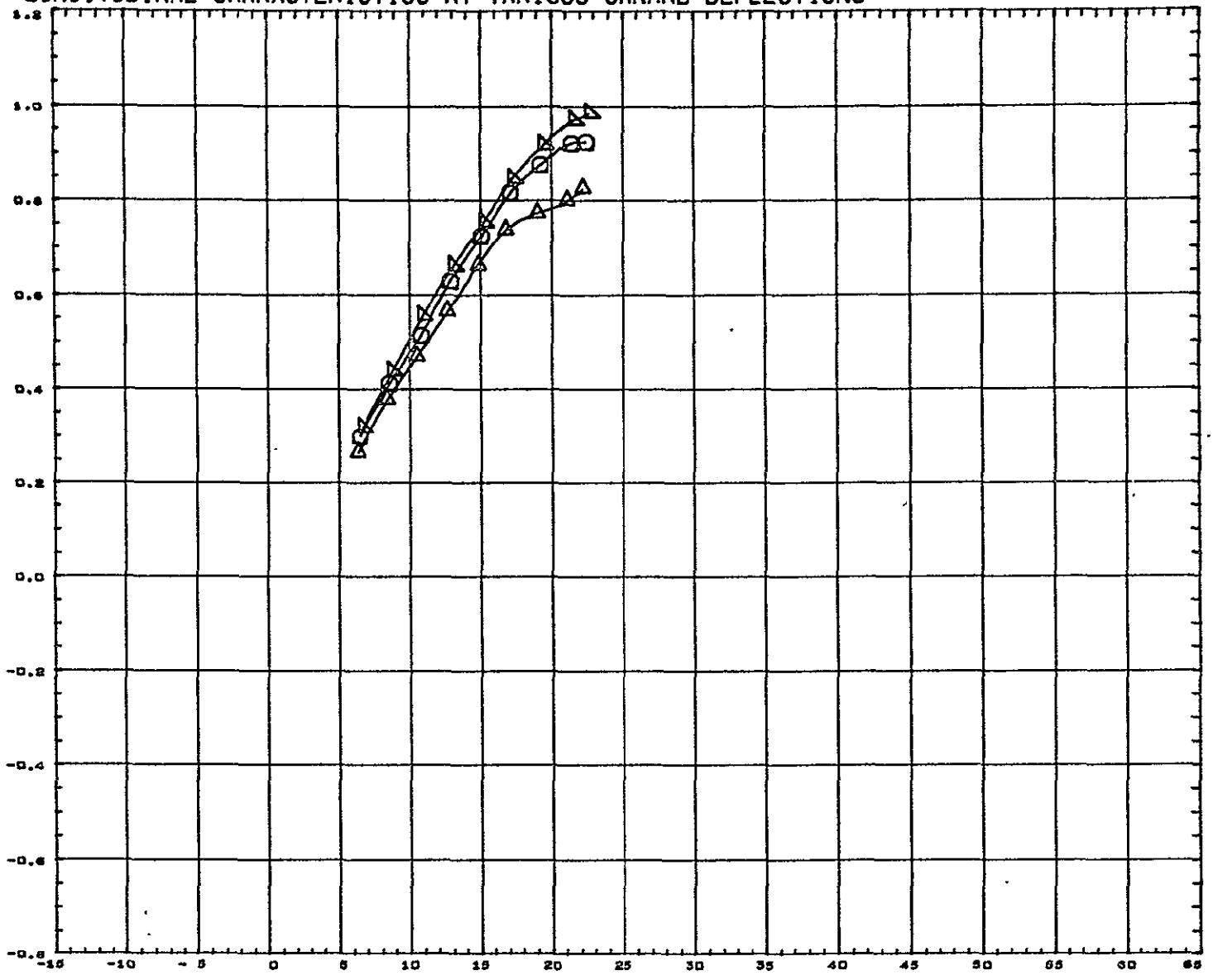


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)	▽	MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 0.900

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

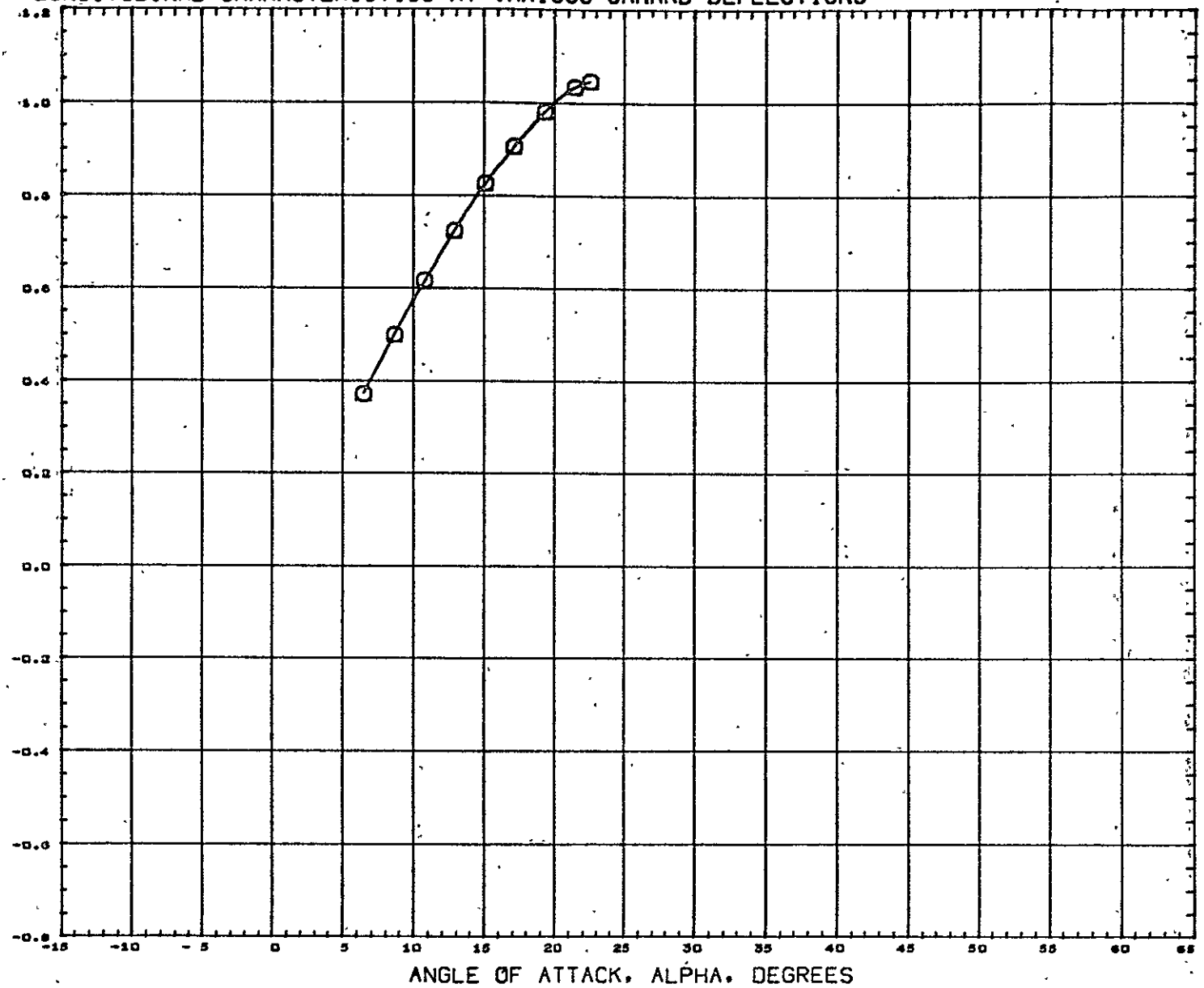


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.954

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

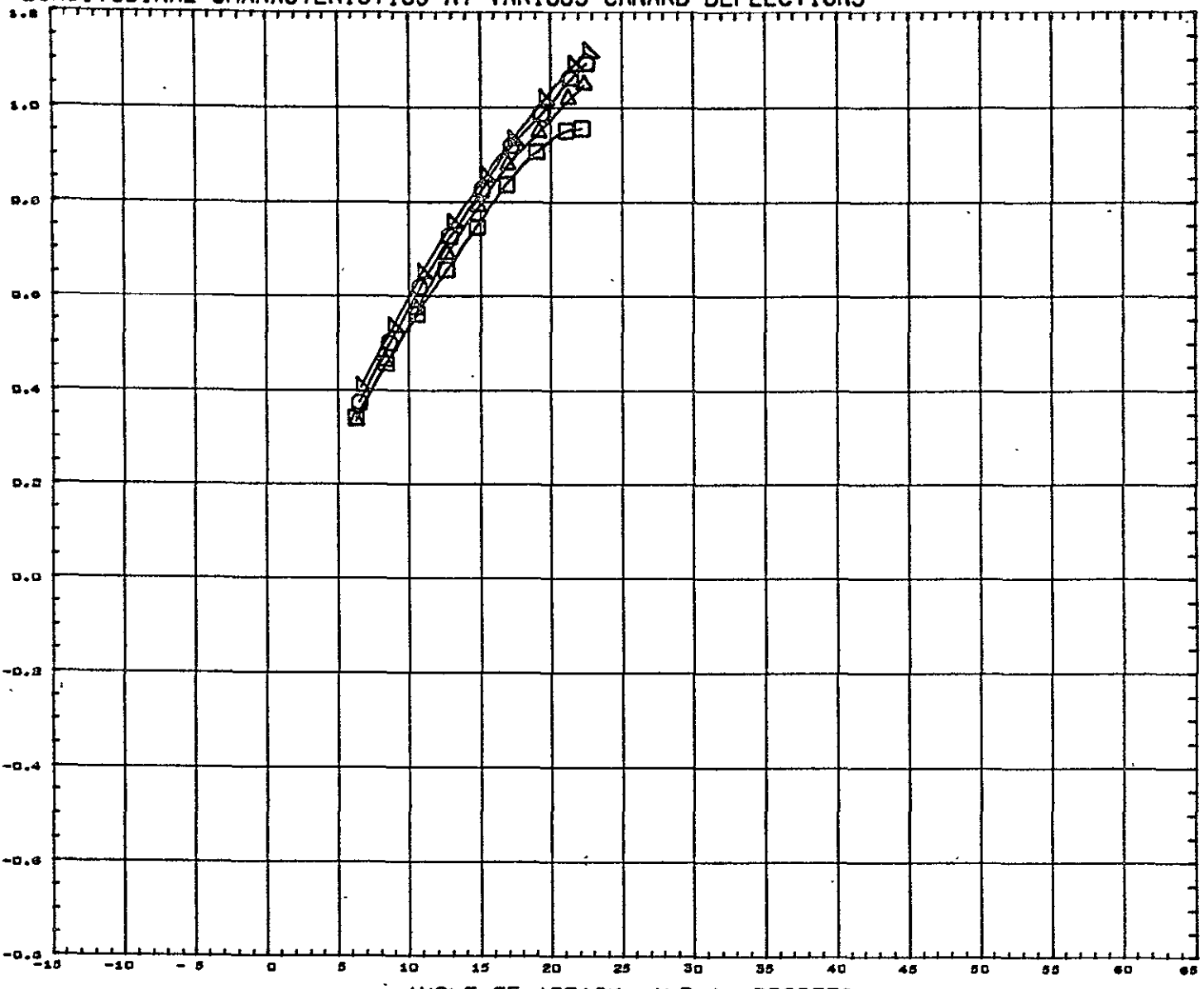


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E26C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 1.007

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

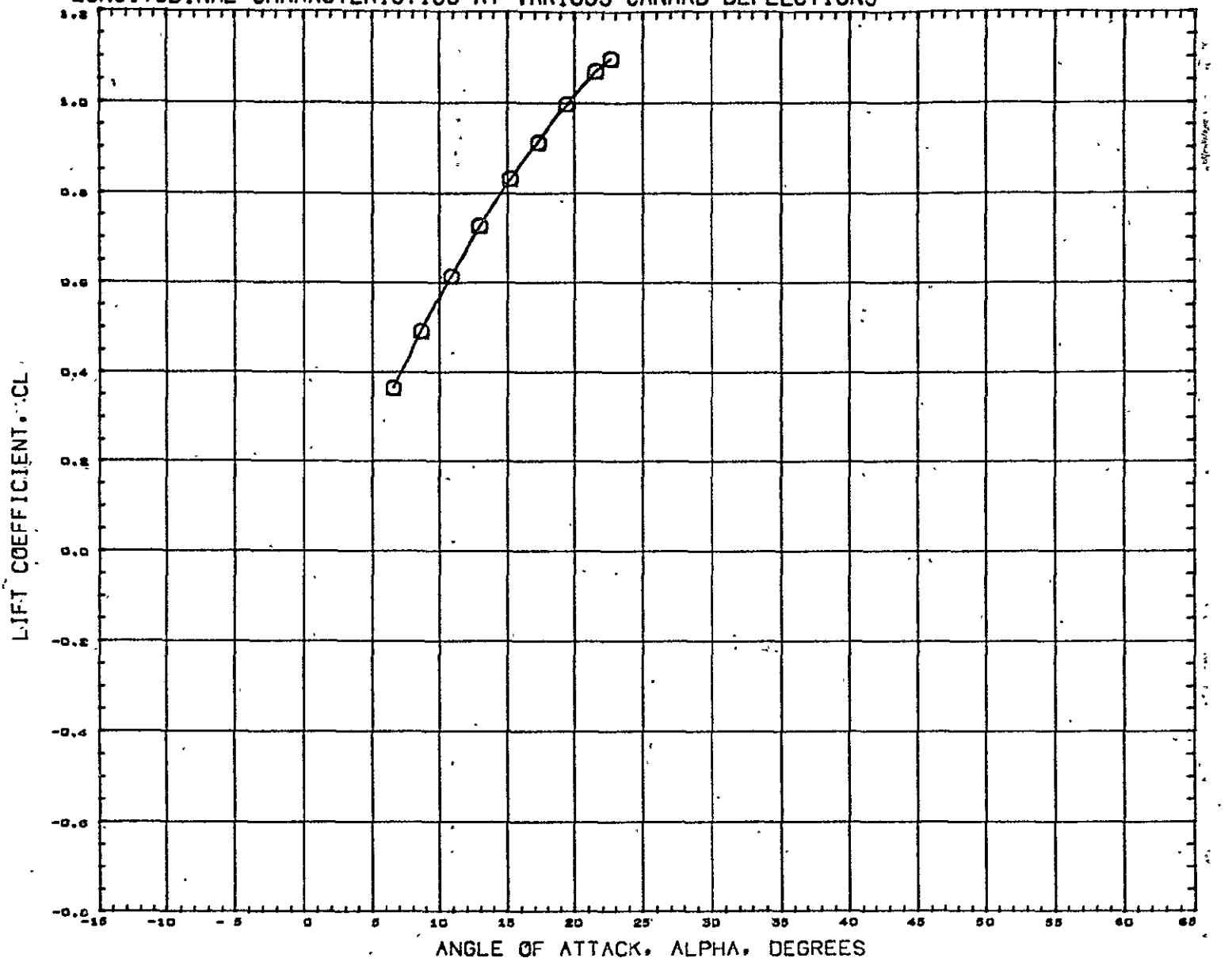


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E26C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C26011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

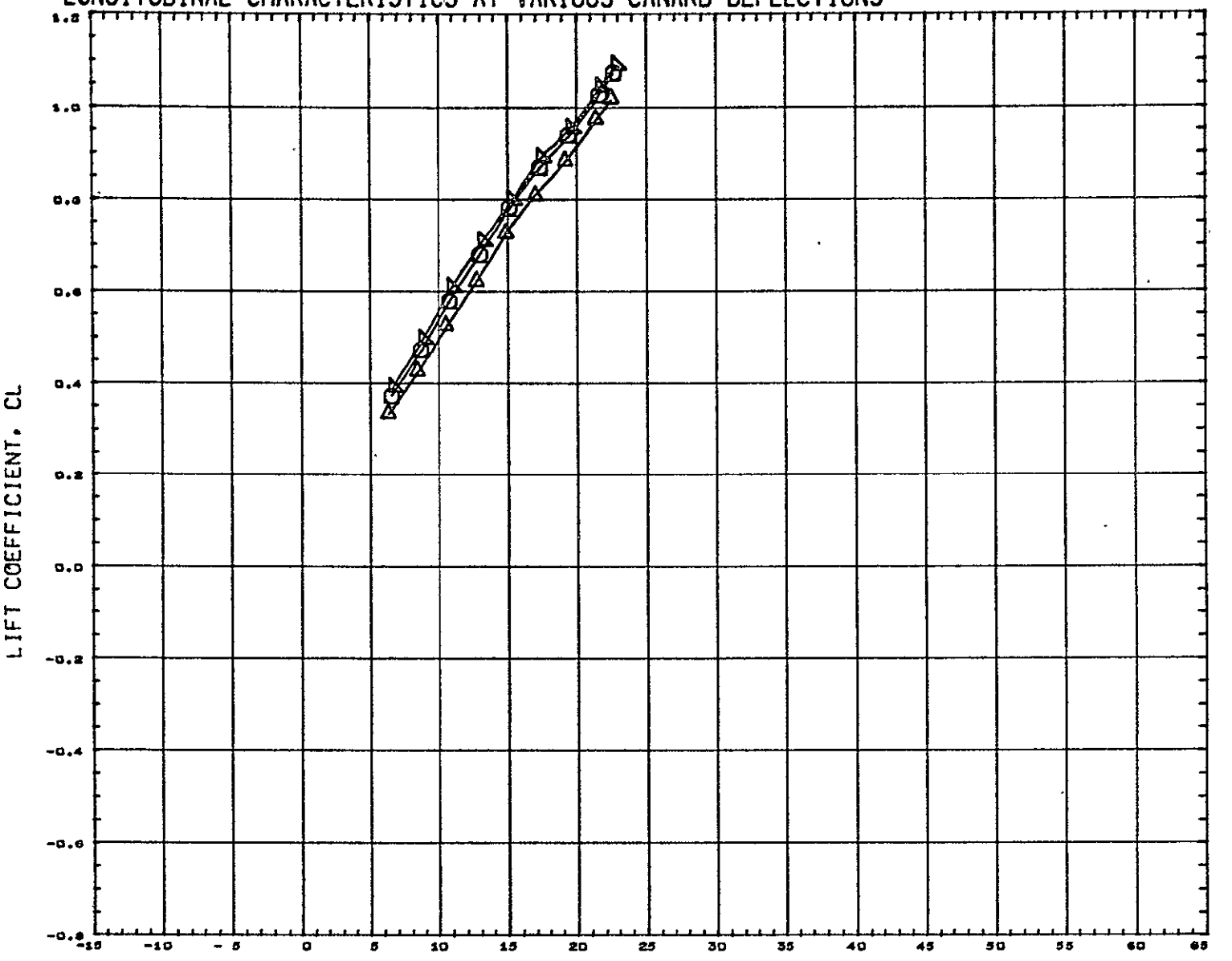


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		HSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 1.105

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

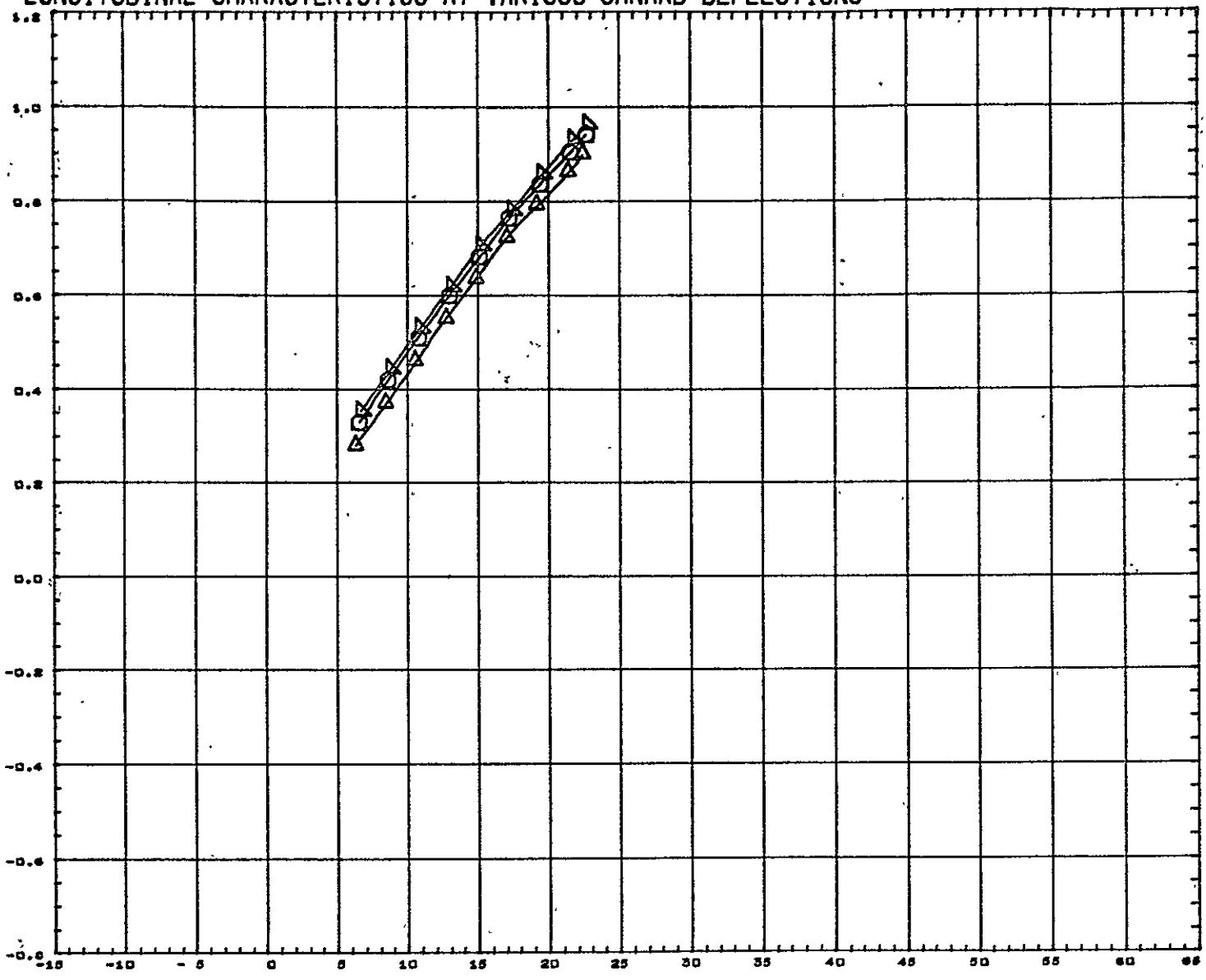


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C5D)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7.	15.000	0.000		0.000

MACH 1.201

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

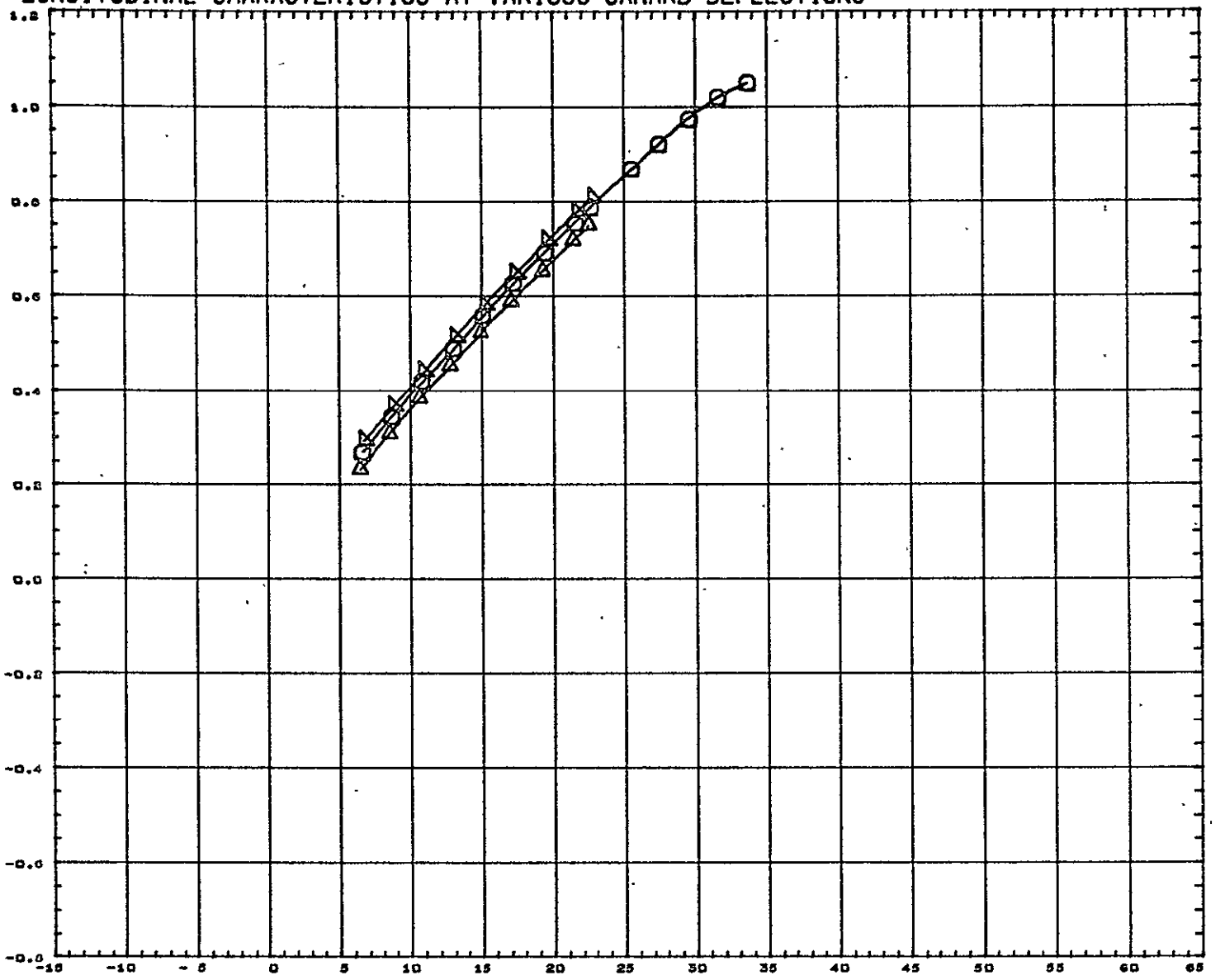


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.462

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

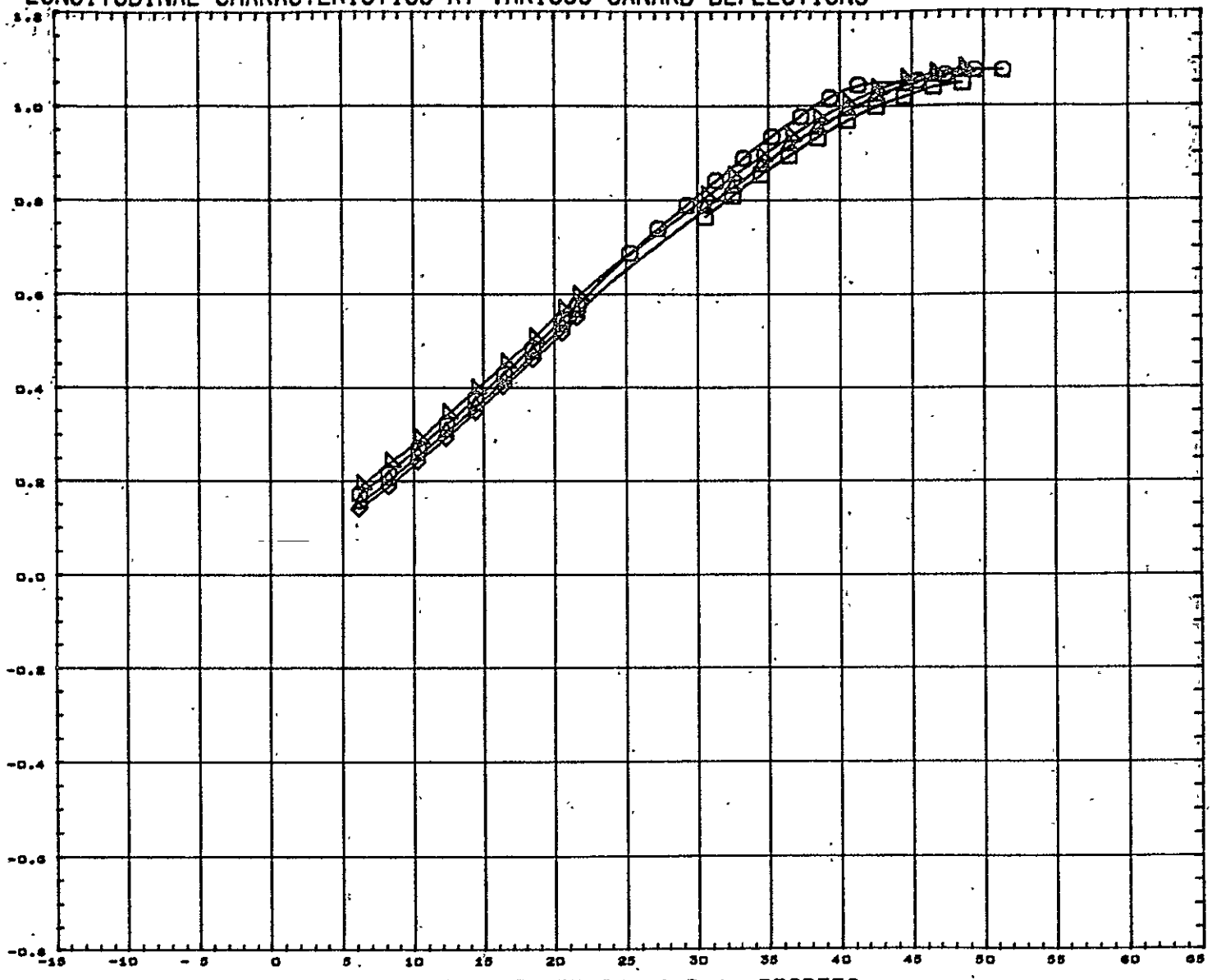


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.958

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

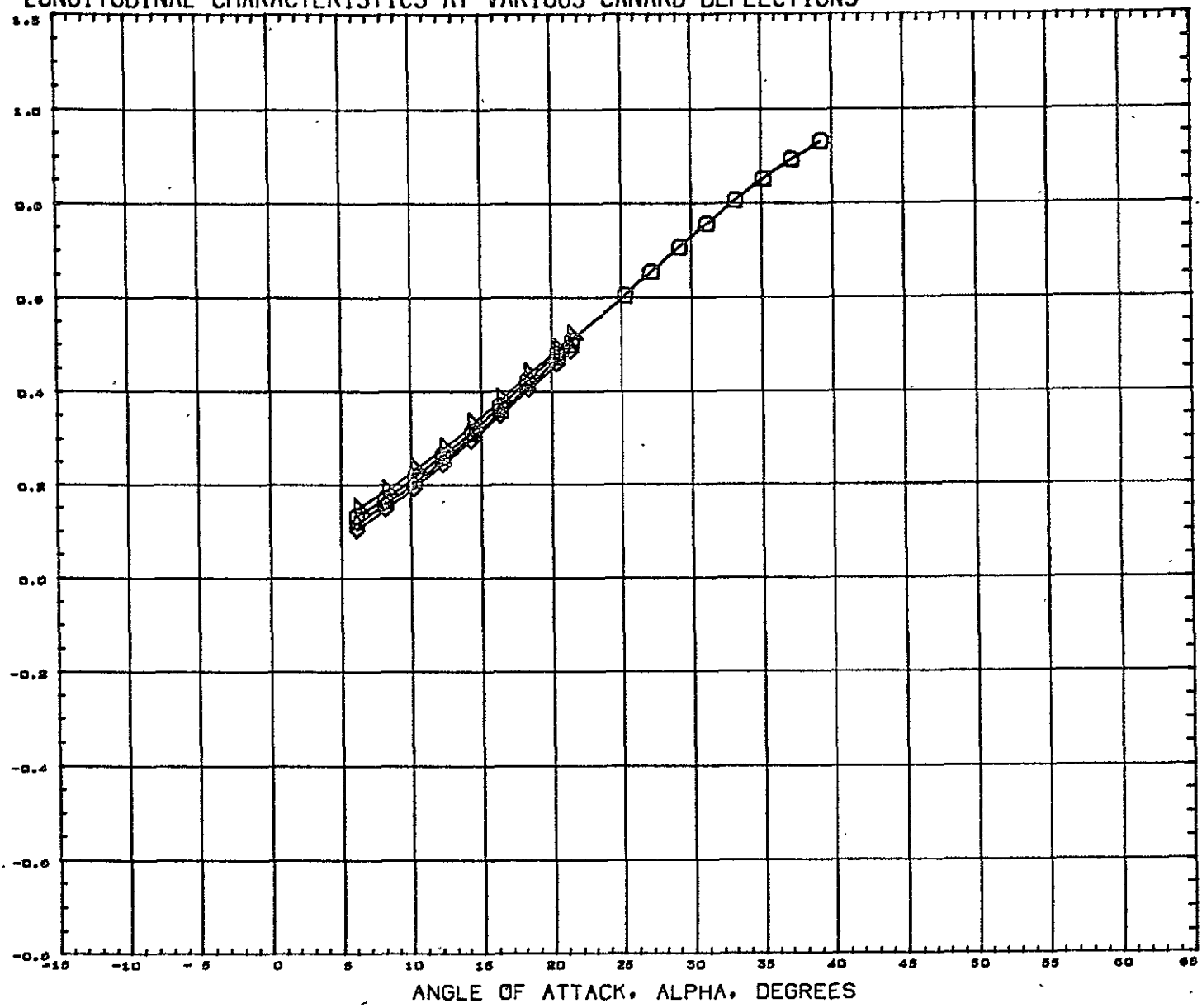


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

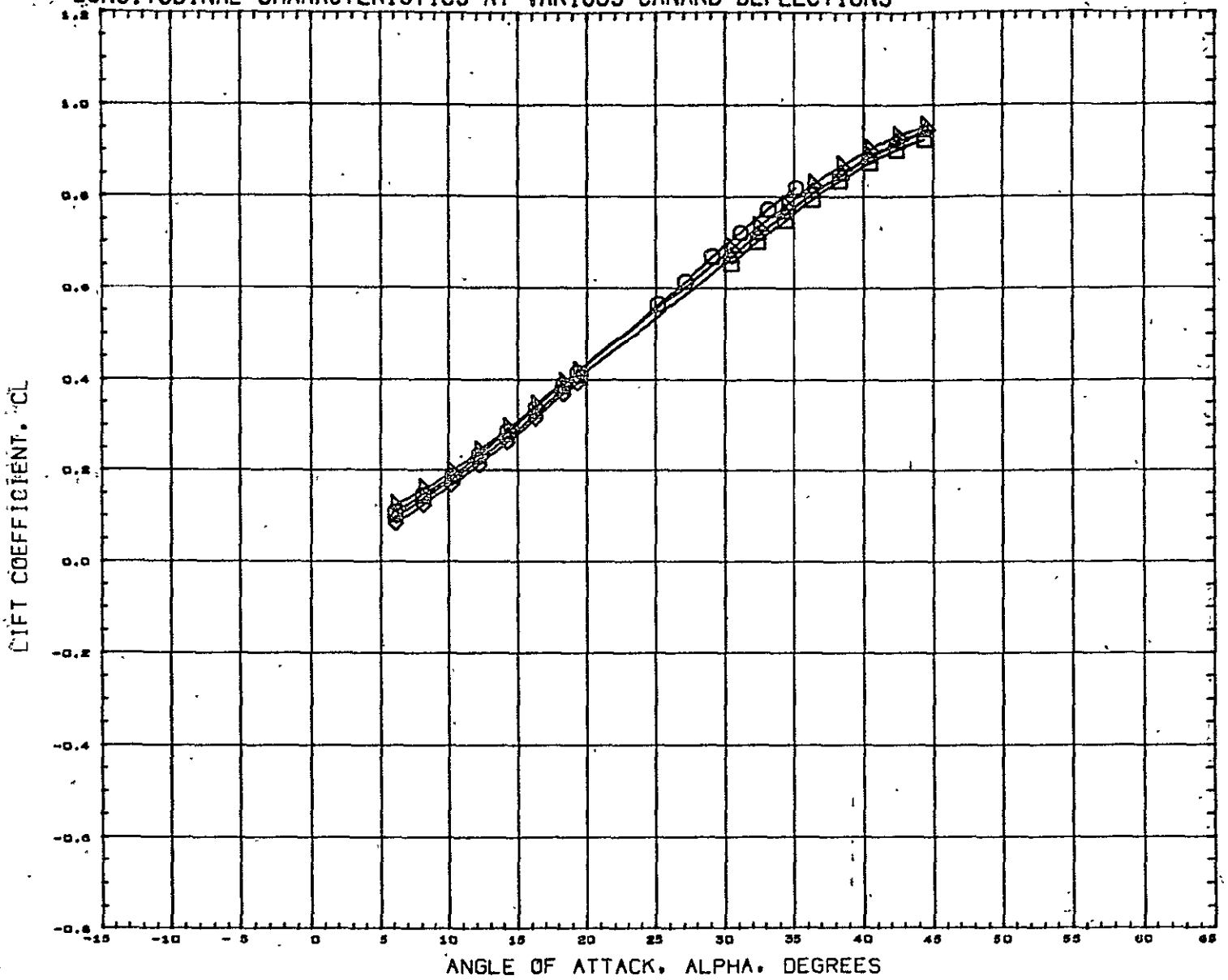


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC401 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		MSFC 401 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 401 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0038	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

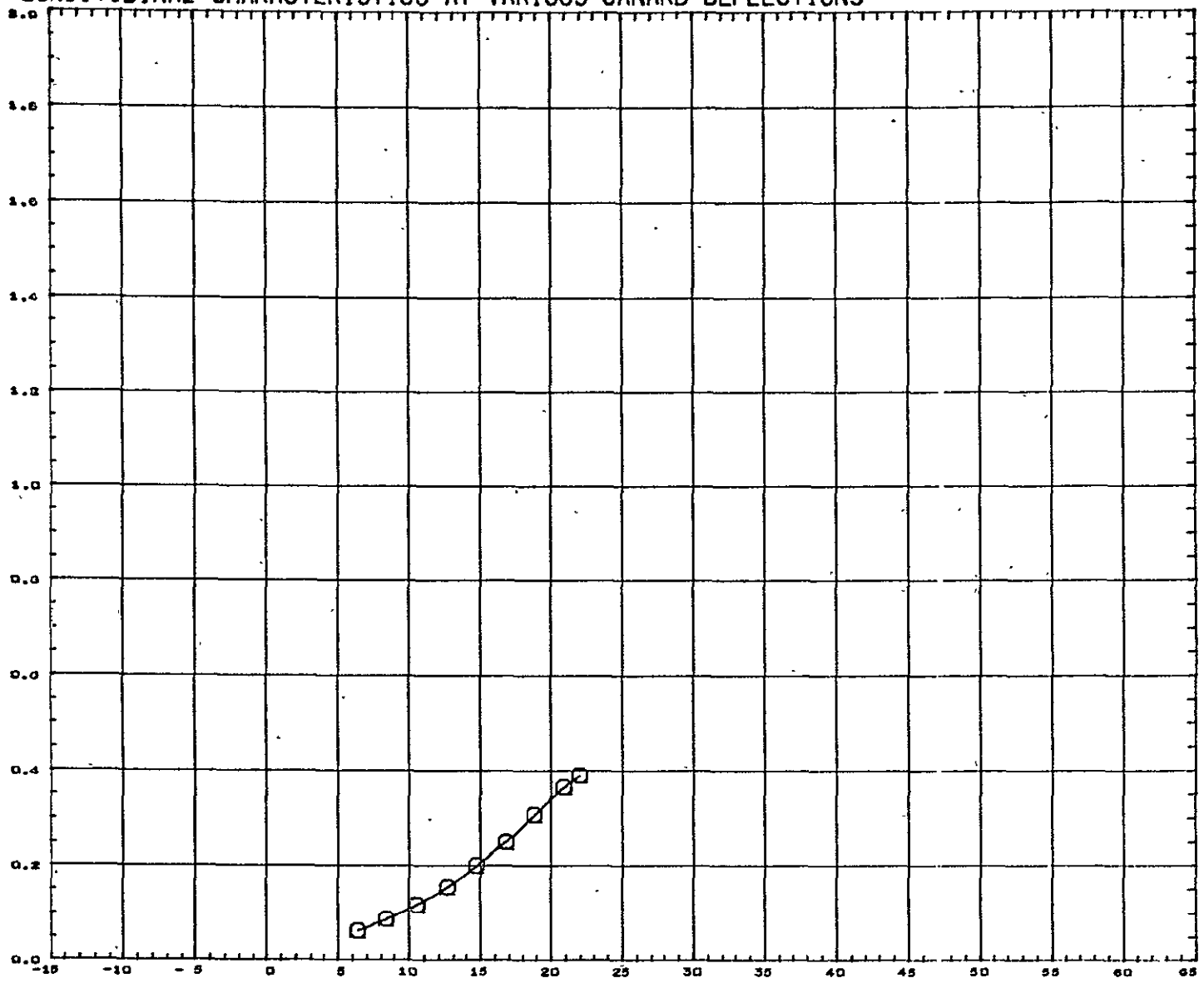


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		M5FC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		M5FC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		M5FC 461 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)		M5FC461 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		M5FC 461 GD/C BOOSTER B19W14C4ABT	15.000	0.000		0.000

MACH 4.960

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

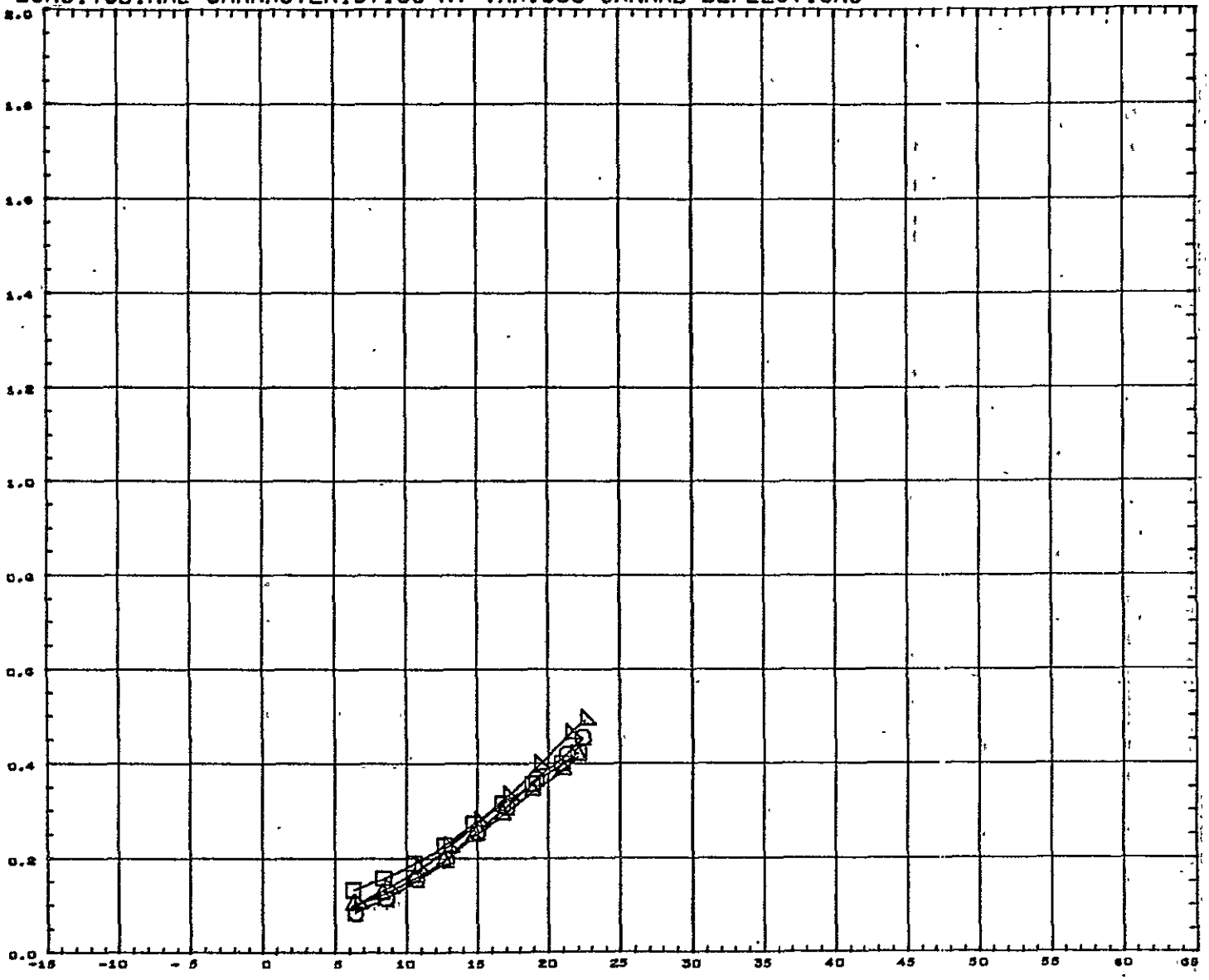


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001).	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26008)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E26C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)	▷	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

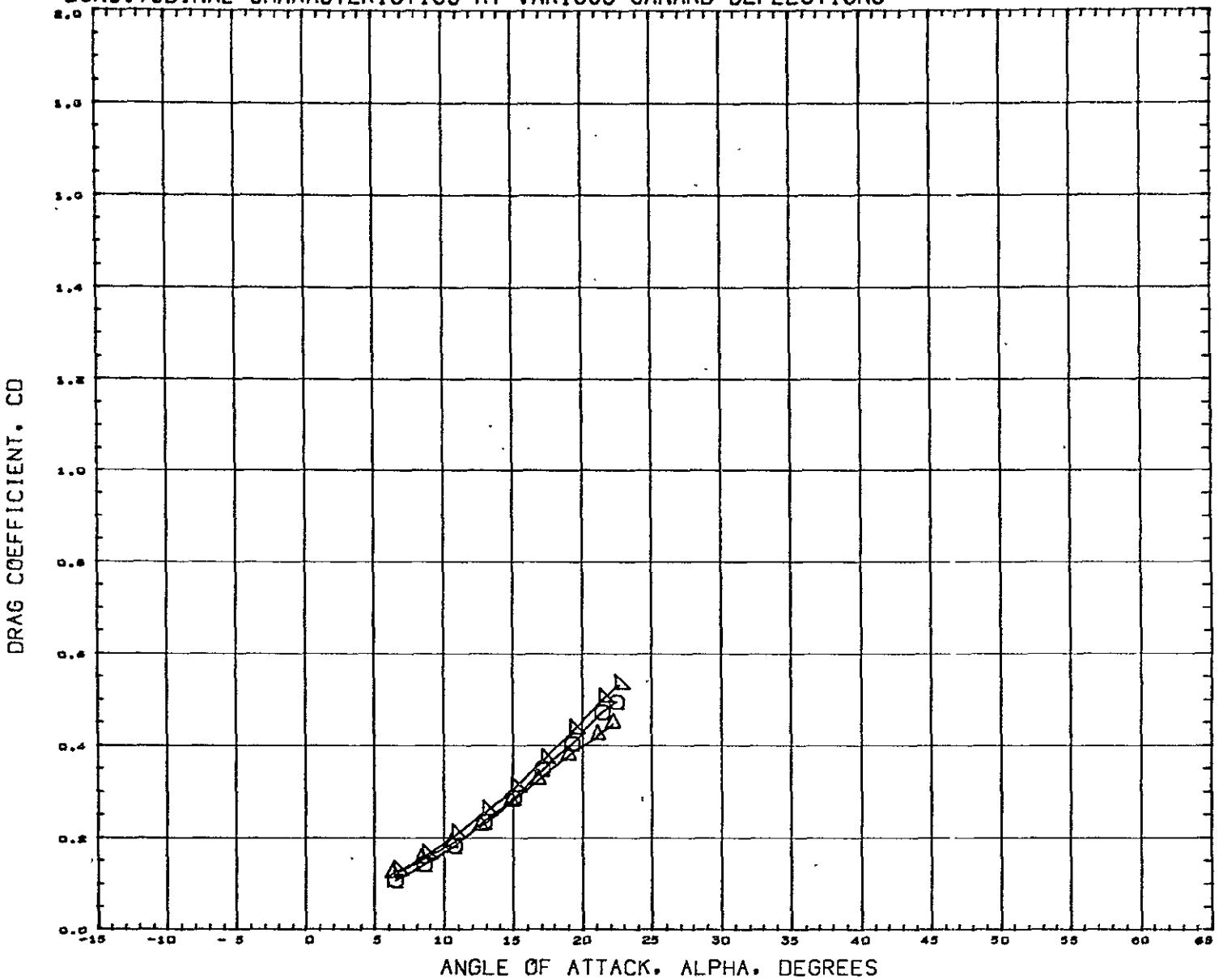


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(CZ6001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(CZ6009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(EZ6C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(CZ6010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(CZ6011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 0.900

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

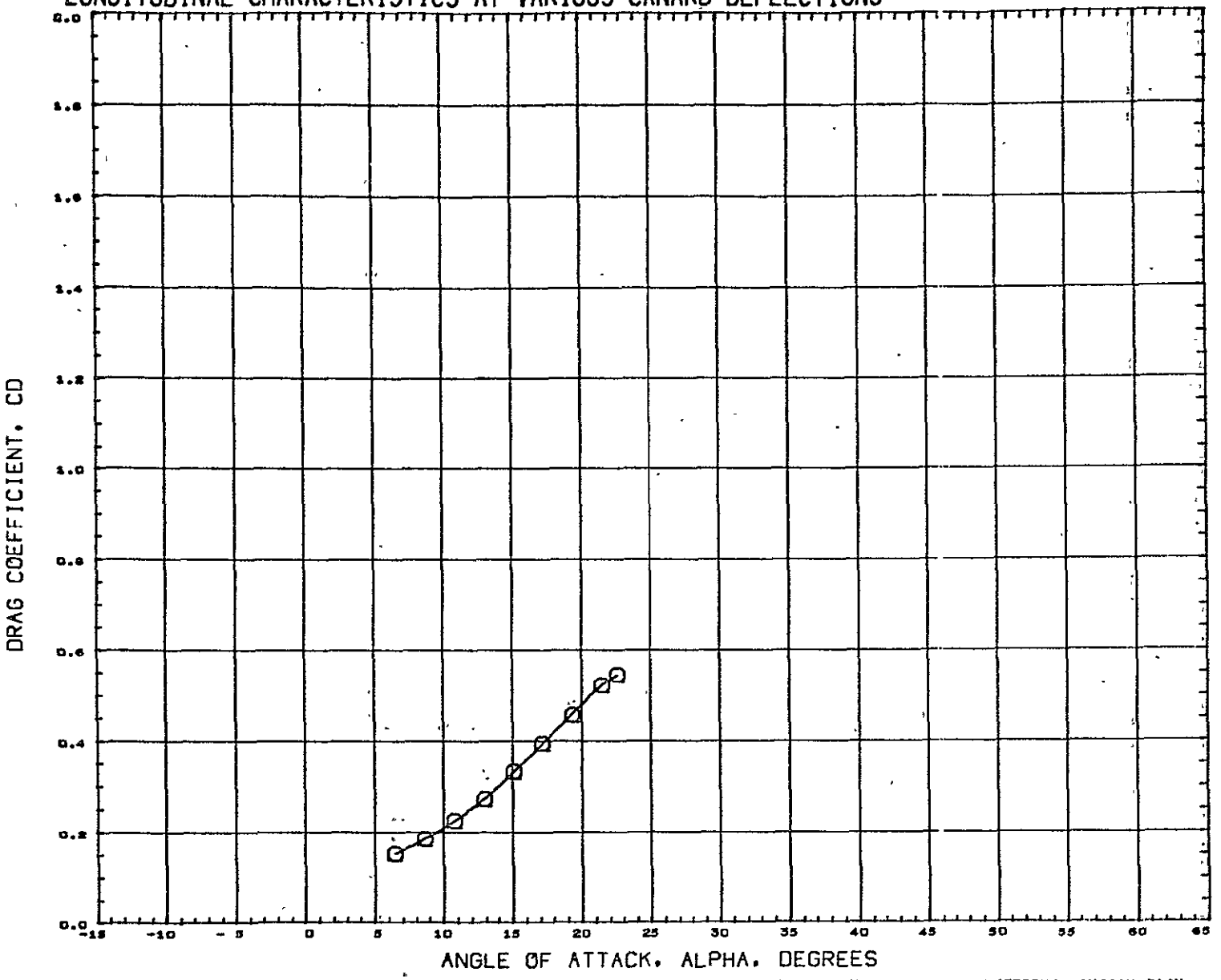


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	MSFC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)	▽	MSFC 461 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 0.954

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

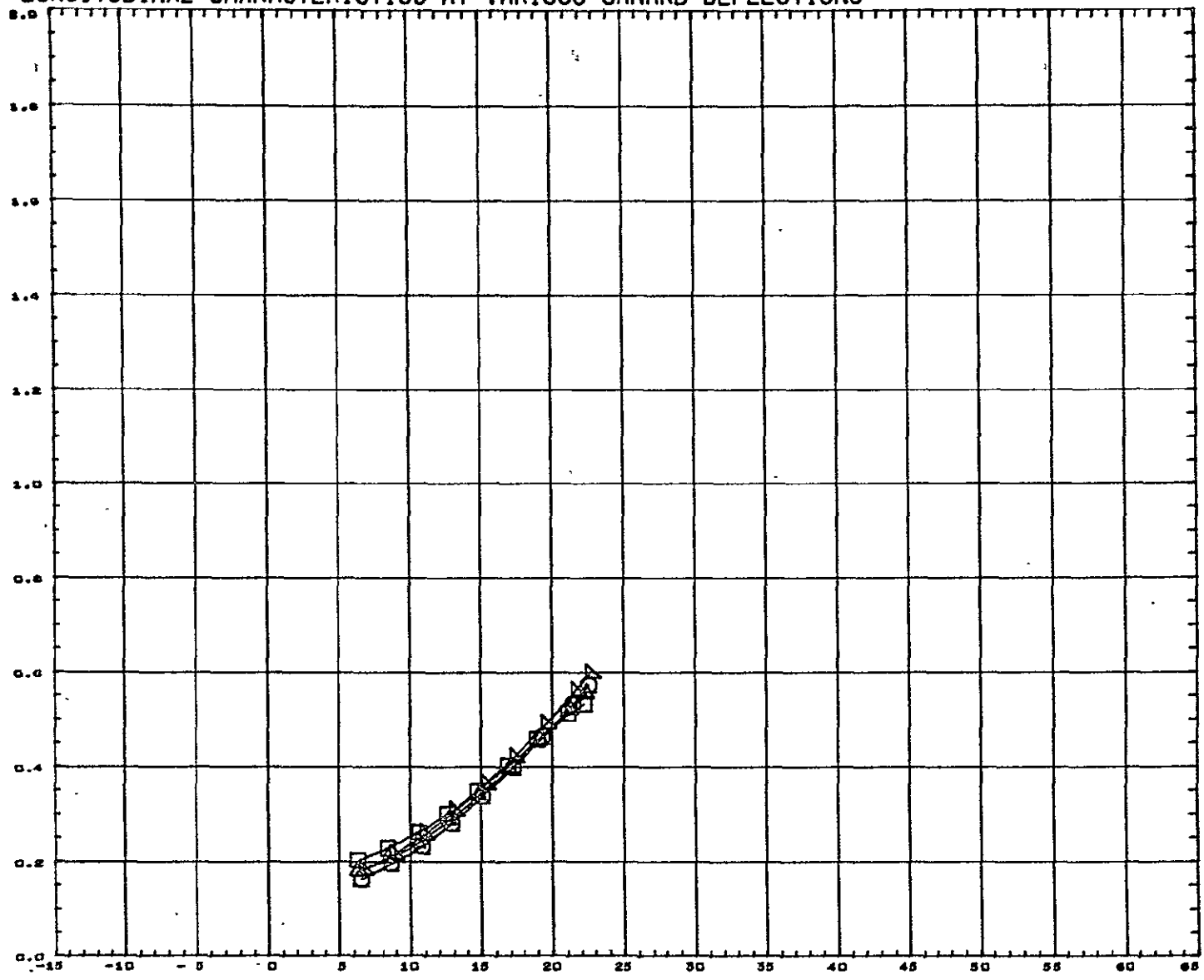


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E26C5D)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

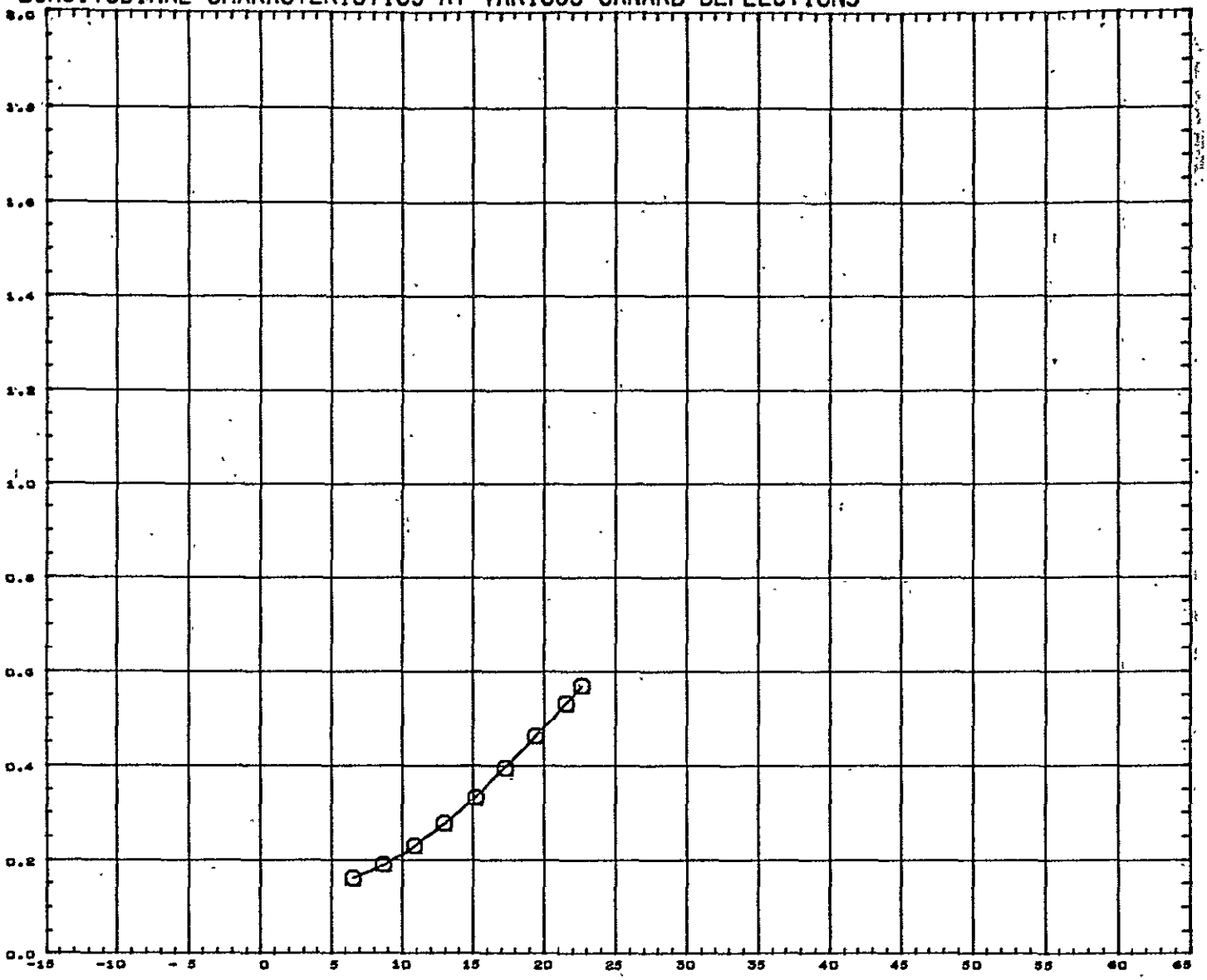


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.051

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

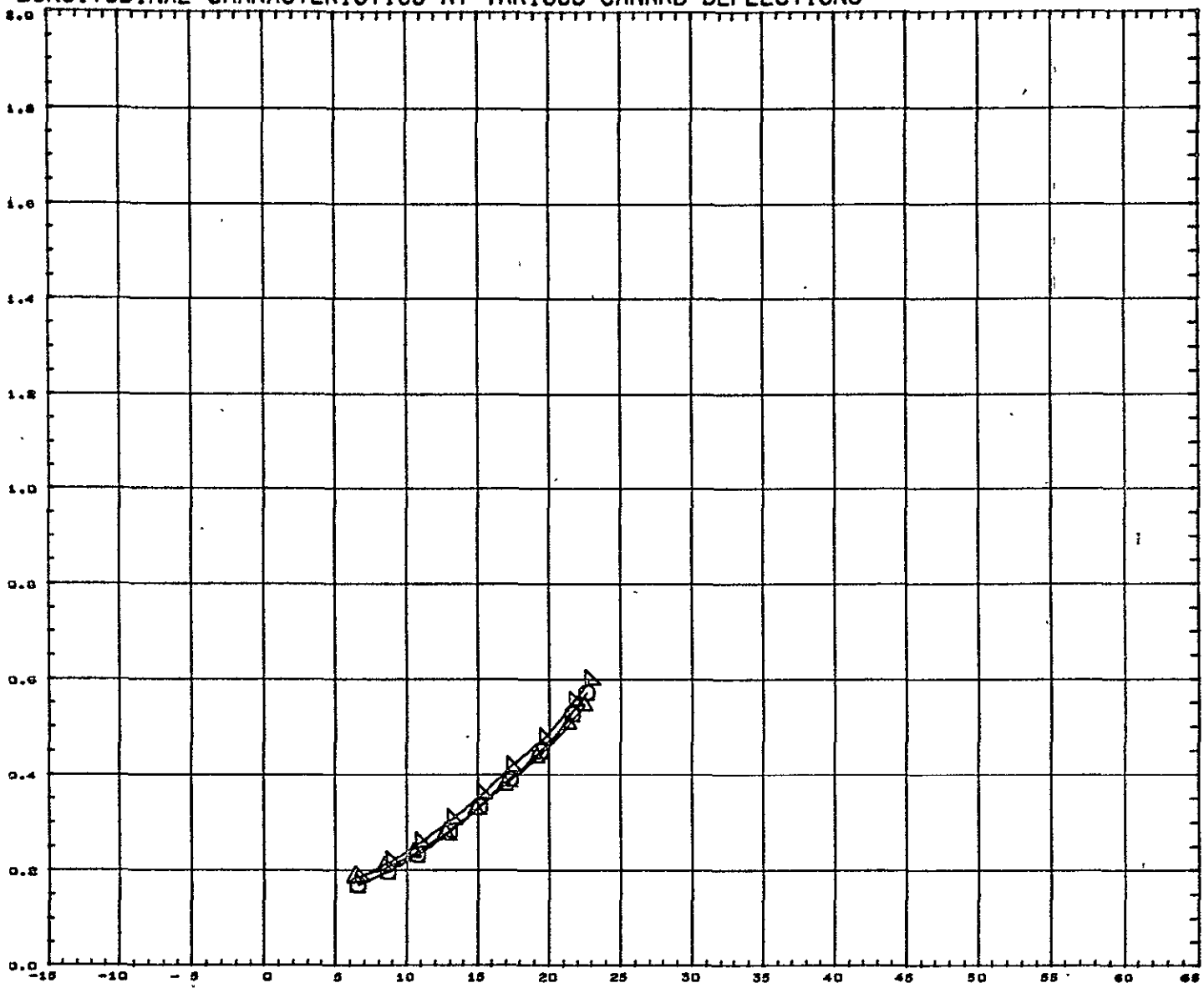


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 1.105

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

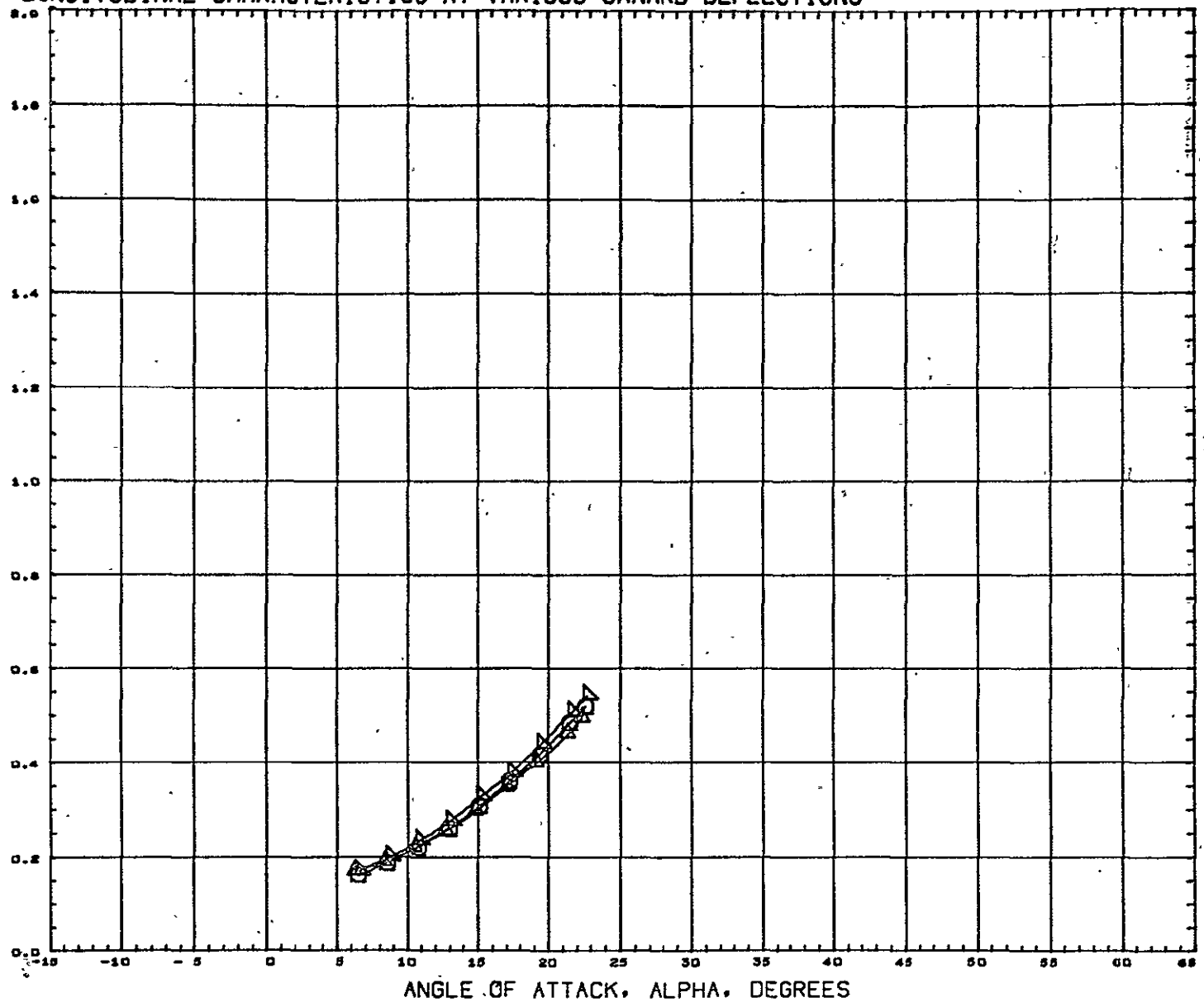


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		M8FC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		M8FC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		M8FC 461 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.201

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

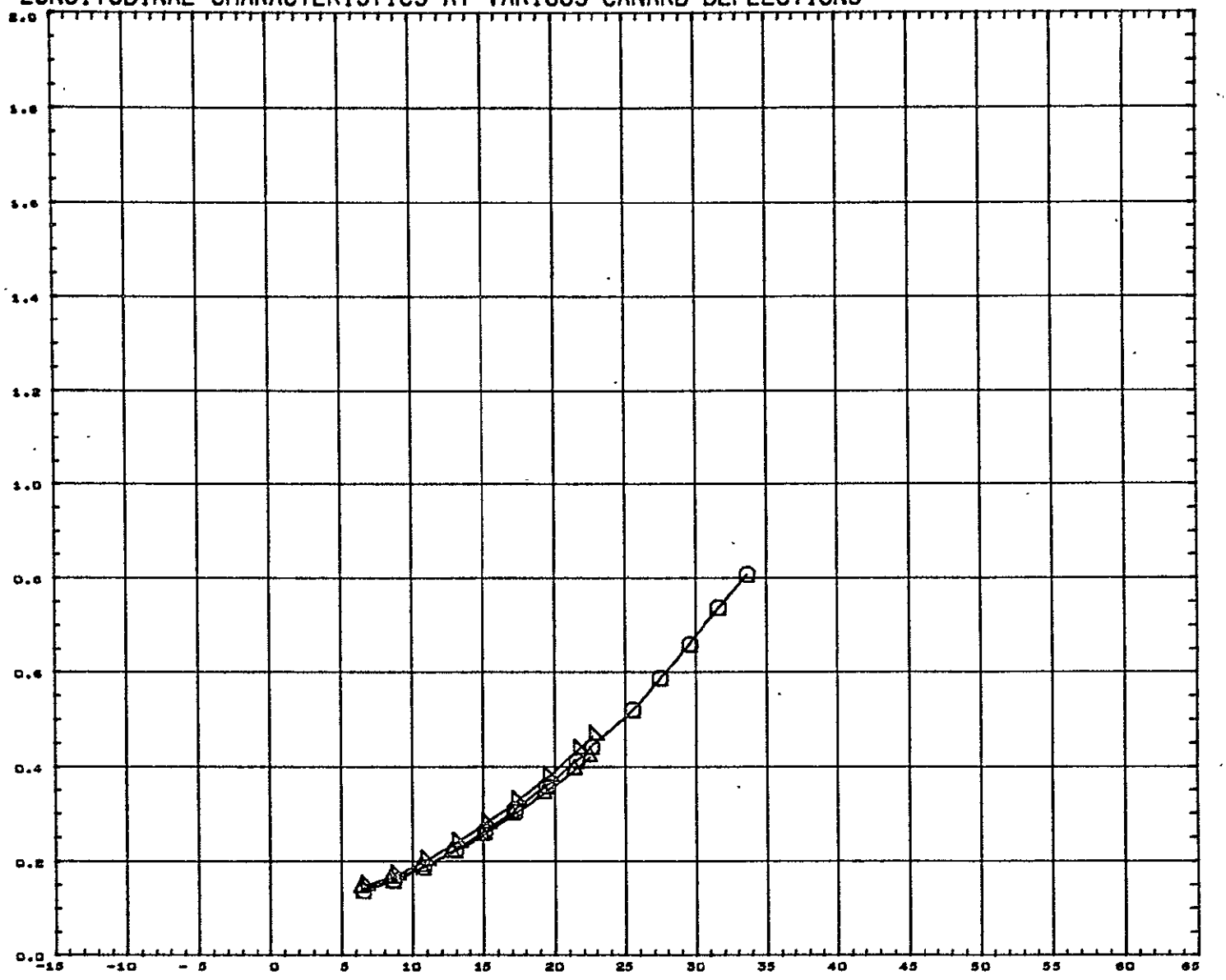


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E26C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.462

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

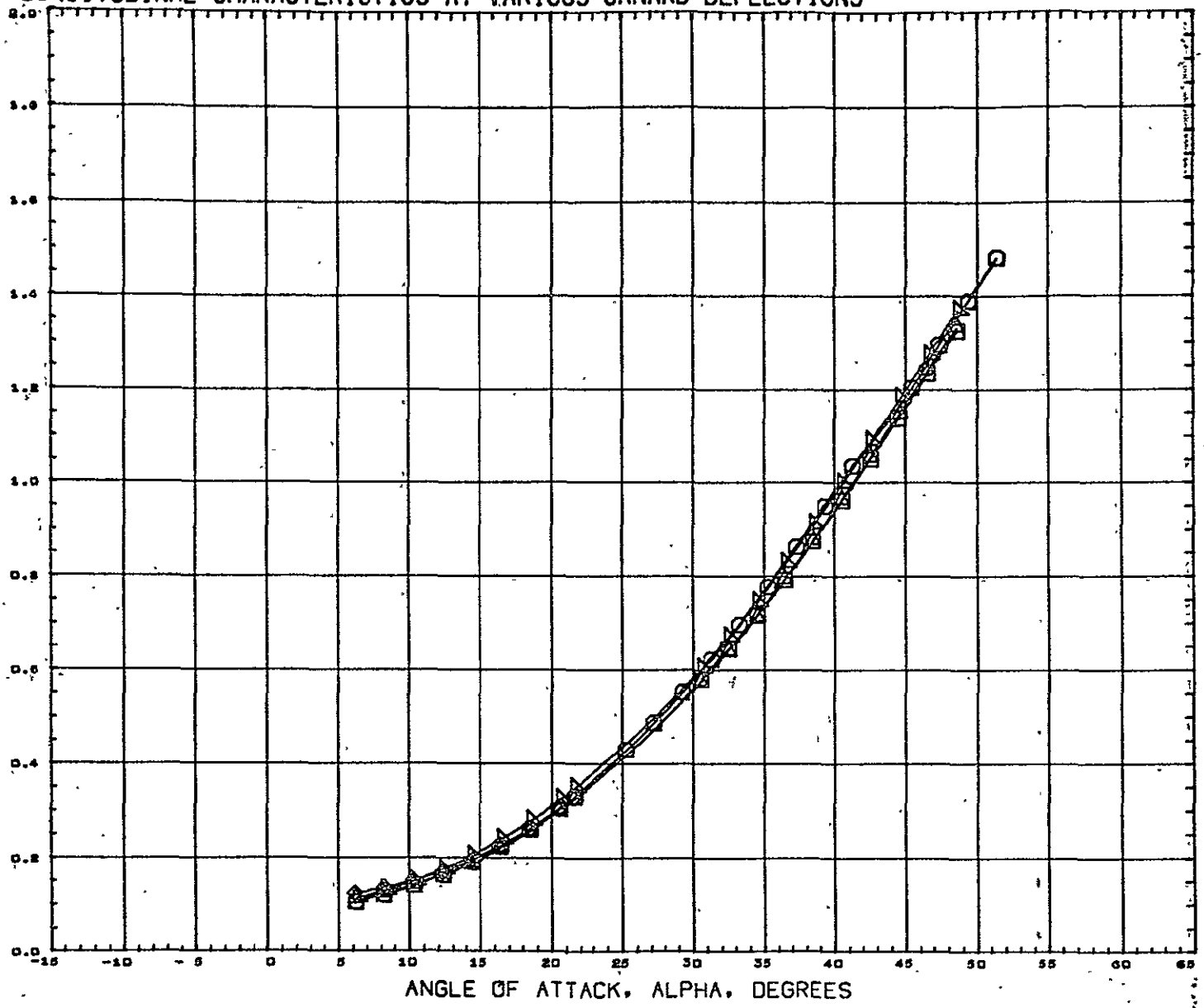


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C20001)		MSFC401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C20030)		MSFC401 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(EZ0C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C20010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C20011)		MSFC 401 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.958

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

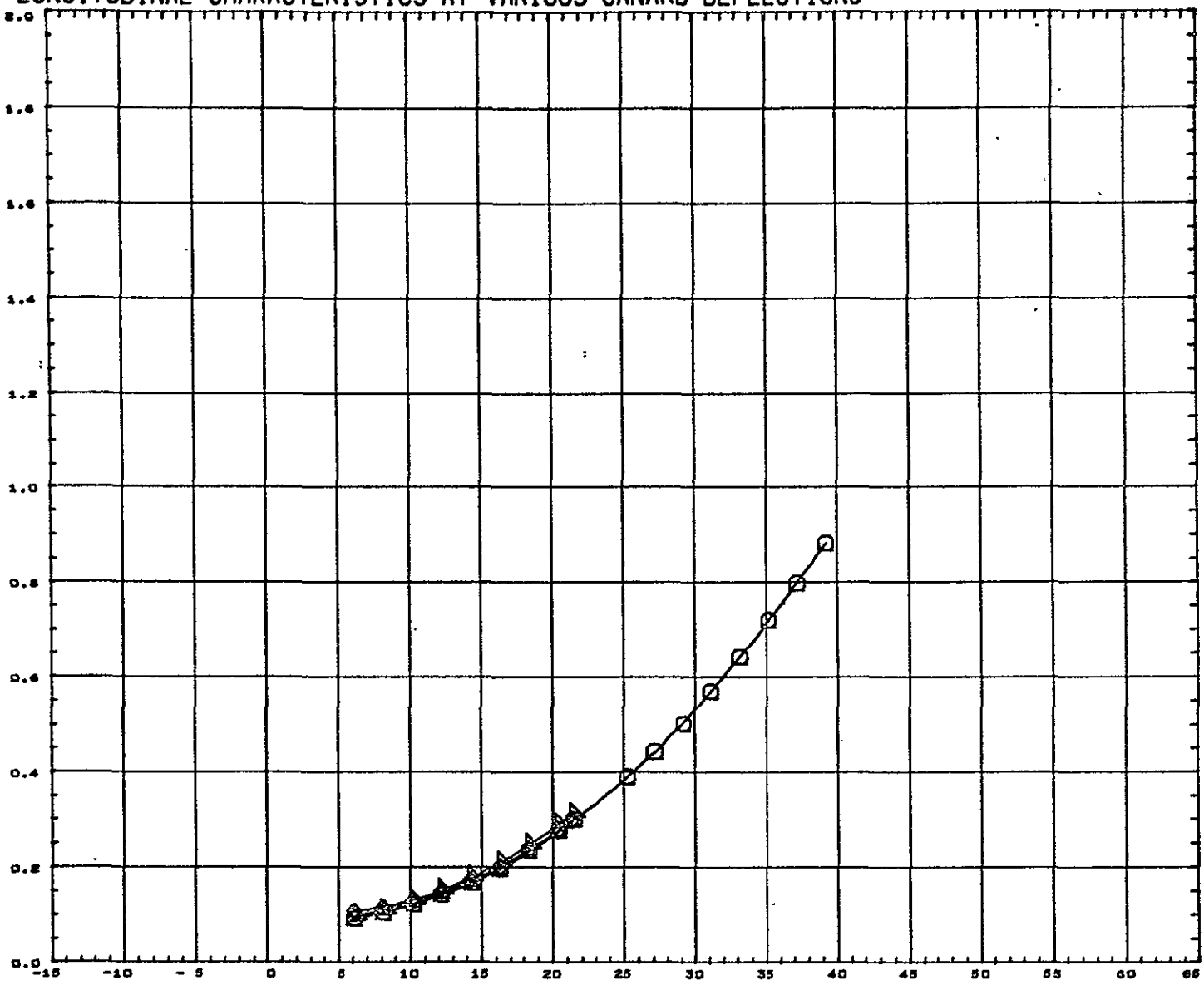


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)	◇	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)	▽	MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

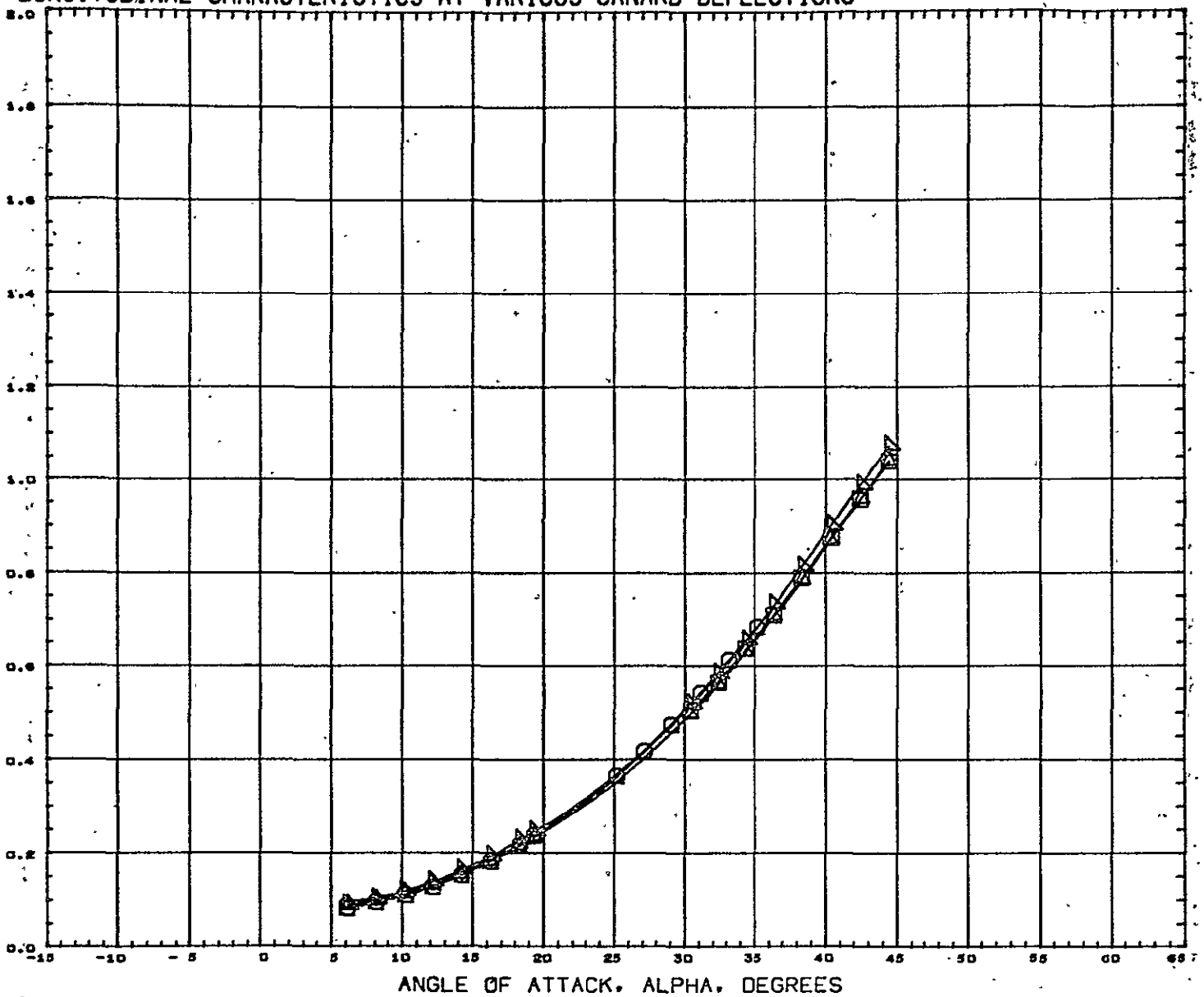


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(CZ8001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(CZ8009)	△	MSFC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(EZ8C50)	◇	MSFC 461 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(CZ8010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(CZ8011)	▽	MSFC 461 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

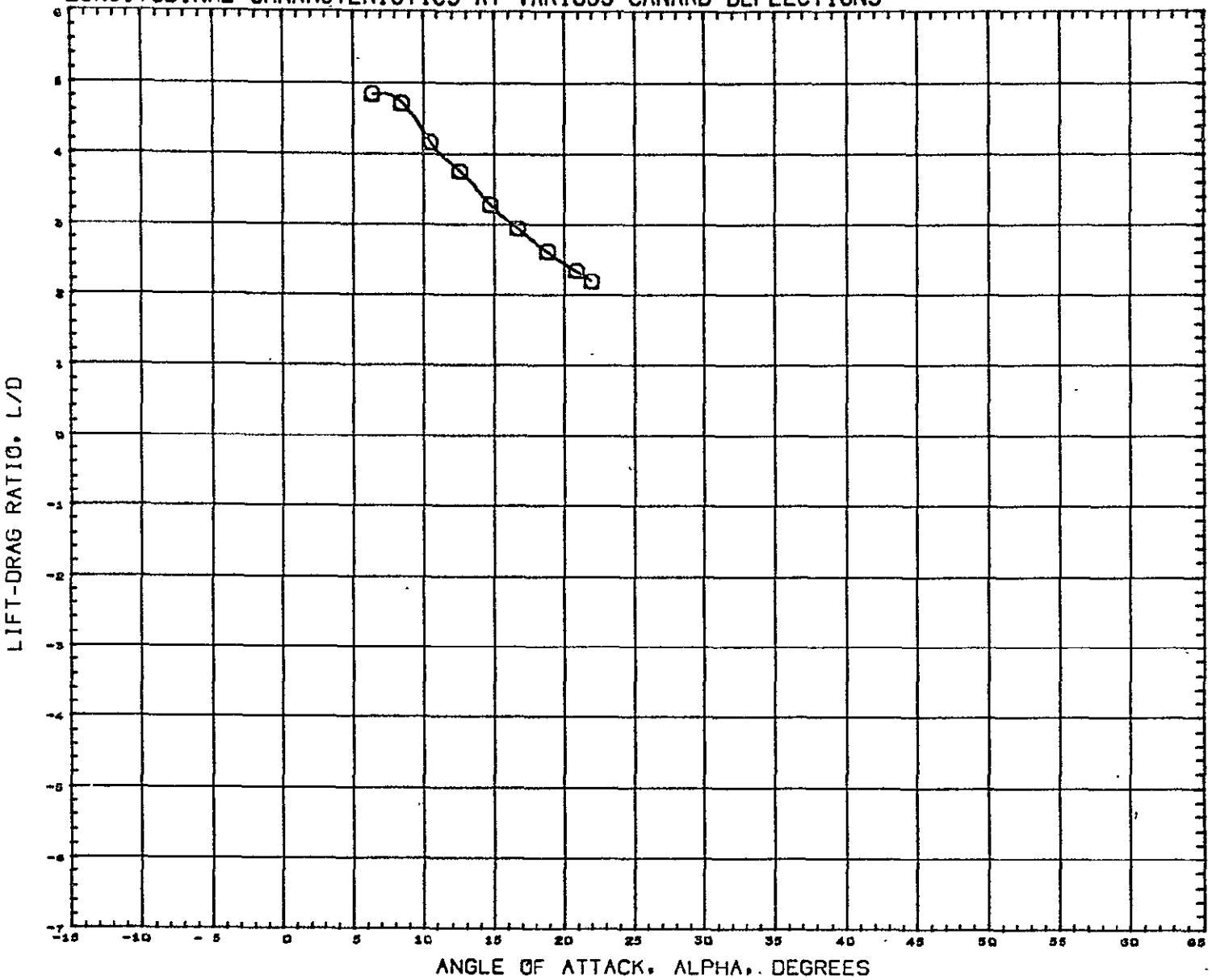


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(CZ8001)		M5FC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(CZ8009)		M5FC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(EZ9C50)		M5FC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(CZ8010)		M5FC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(CZ8011)		M5FC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 4.960

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

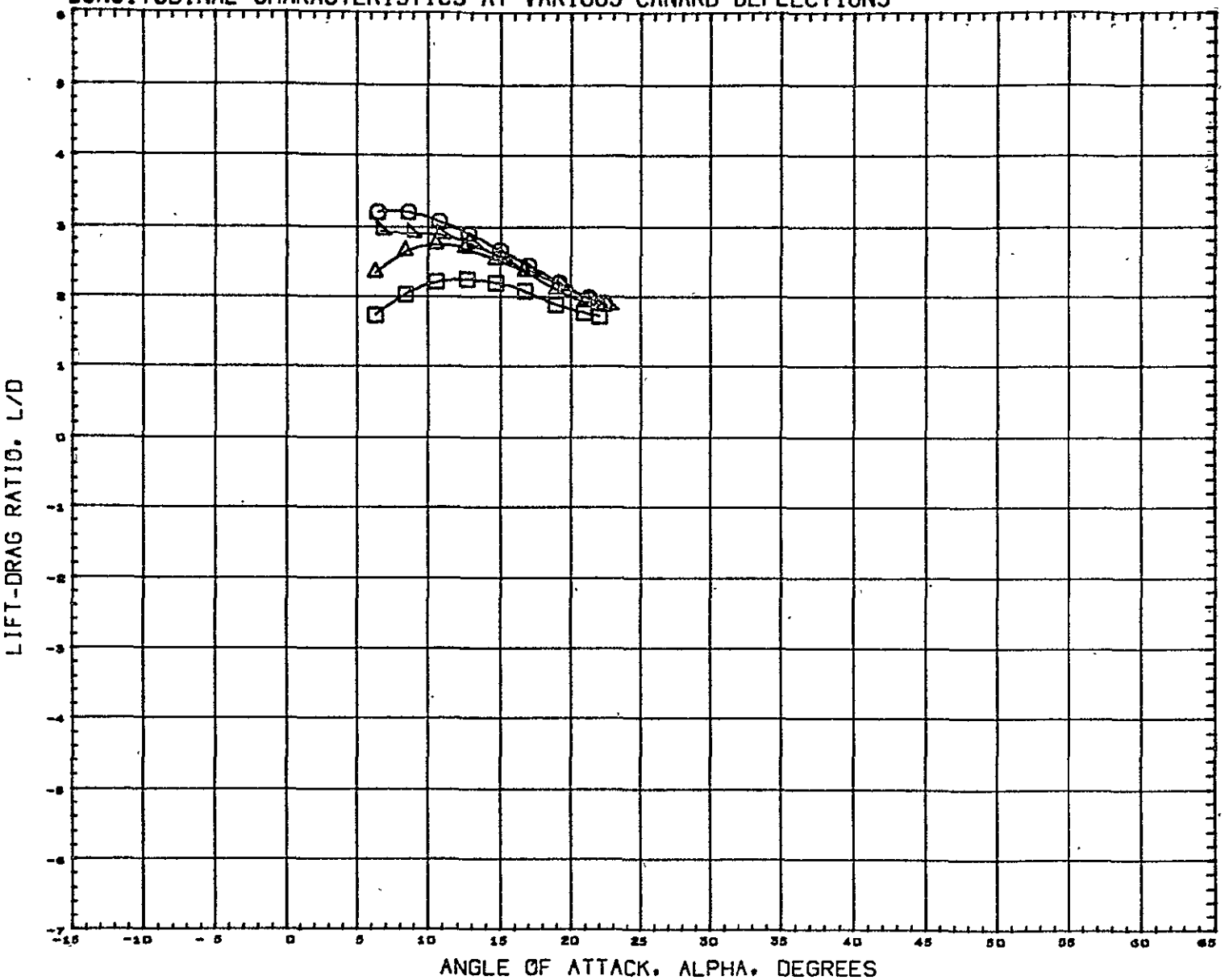


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

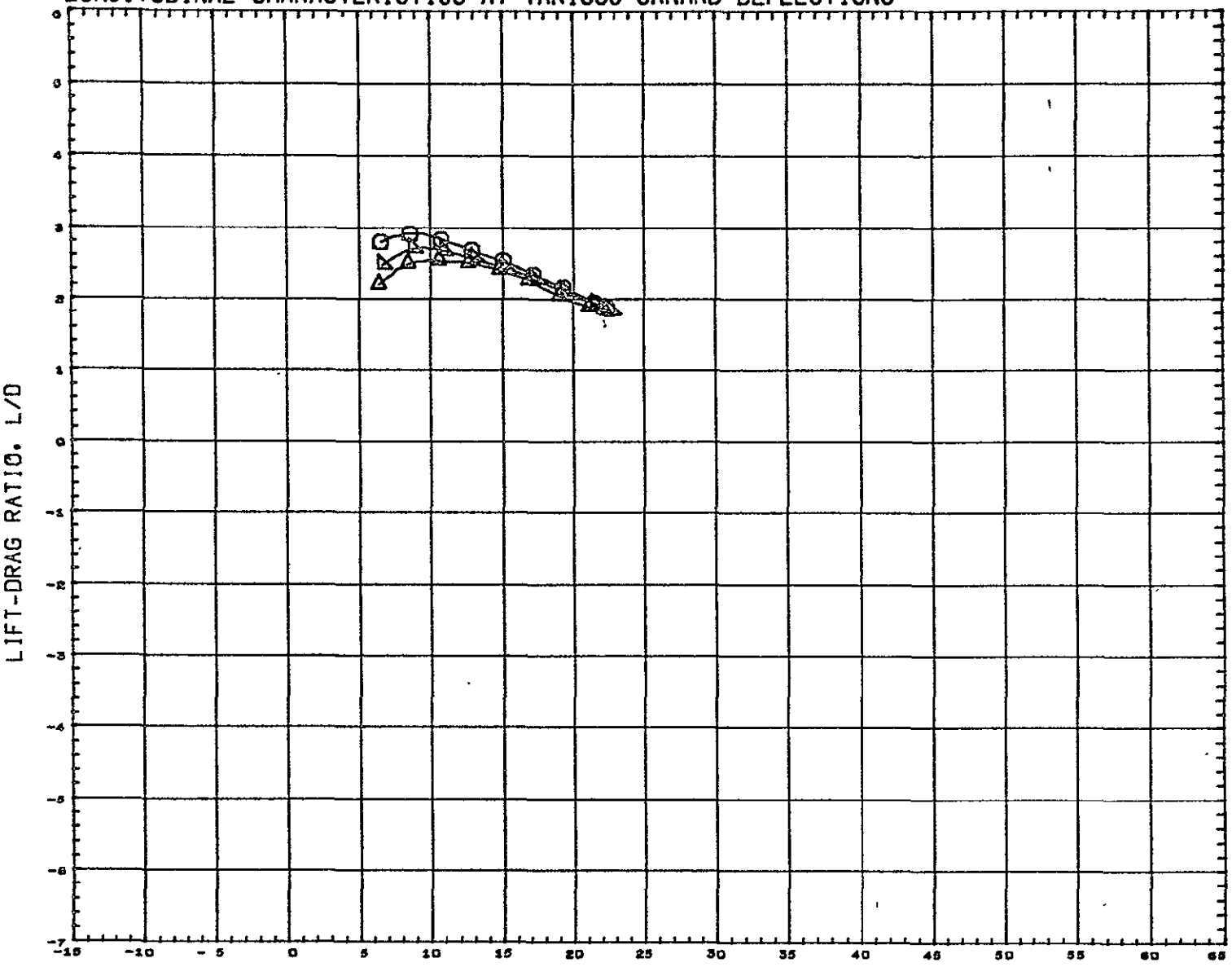


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E20C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)	▽	MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 0.900

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

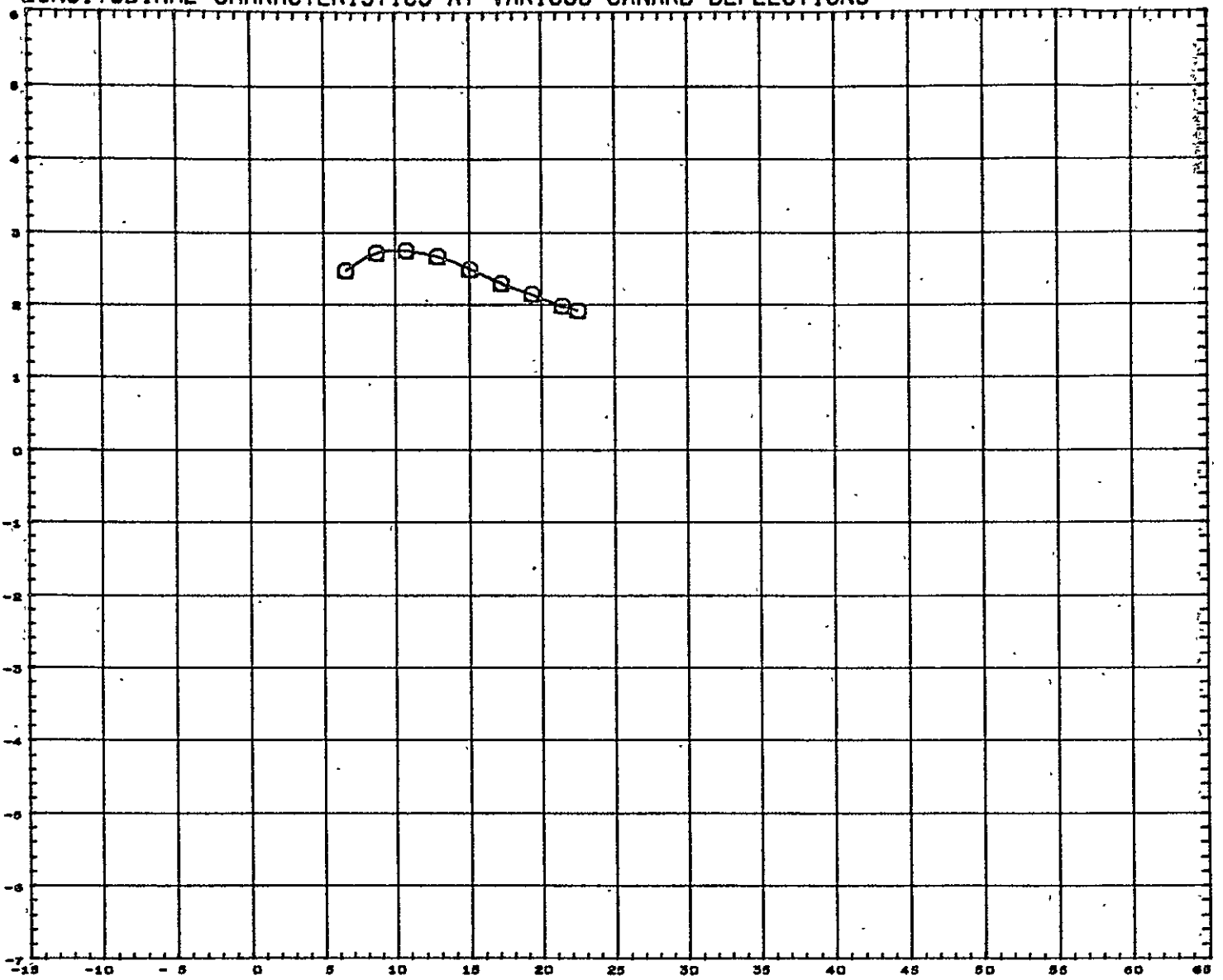


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC401 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C30)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 401 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 0.954

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

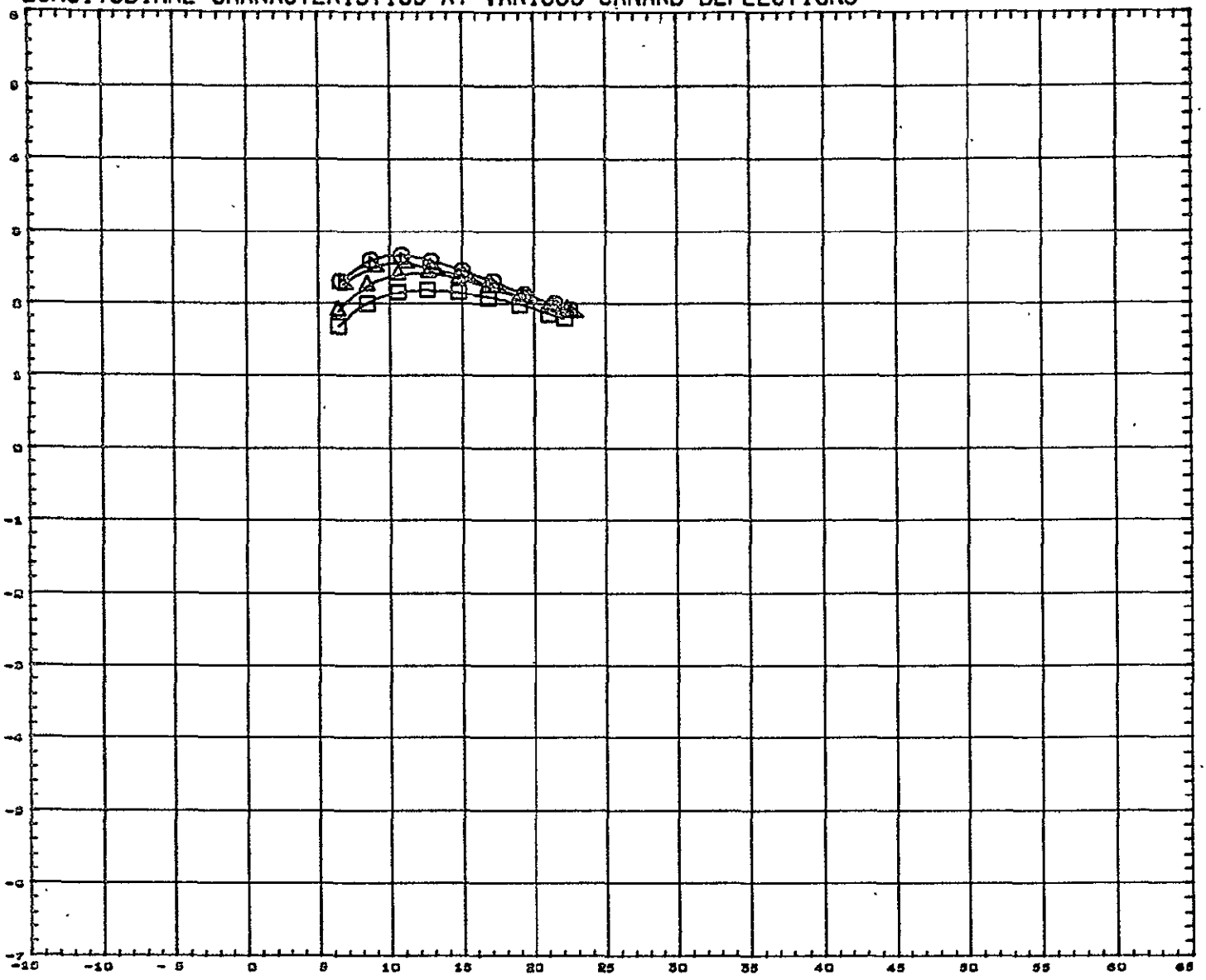


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 1.007

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

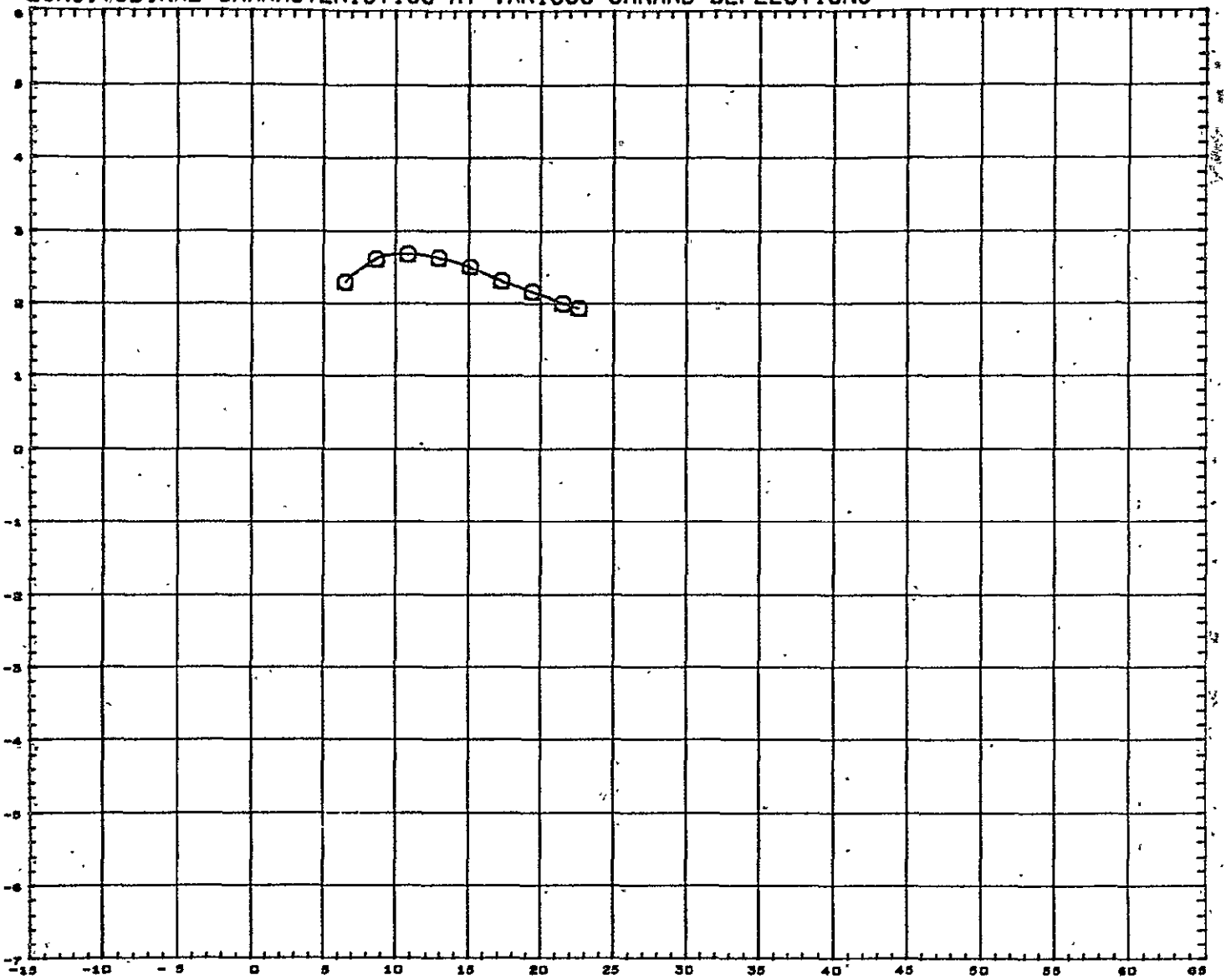


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 461 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.051

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

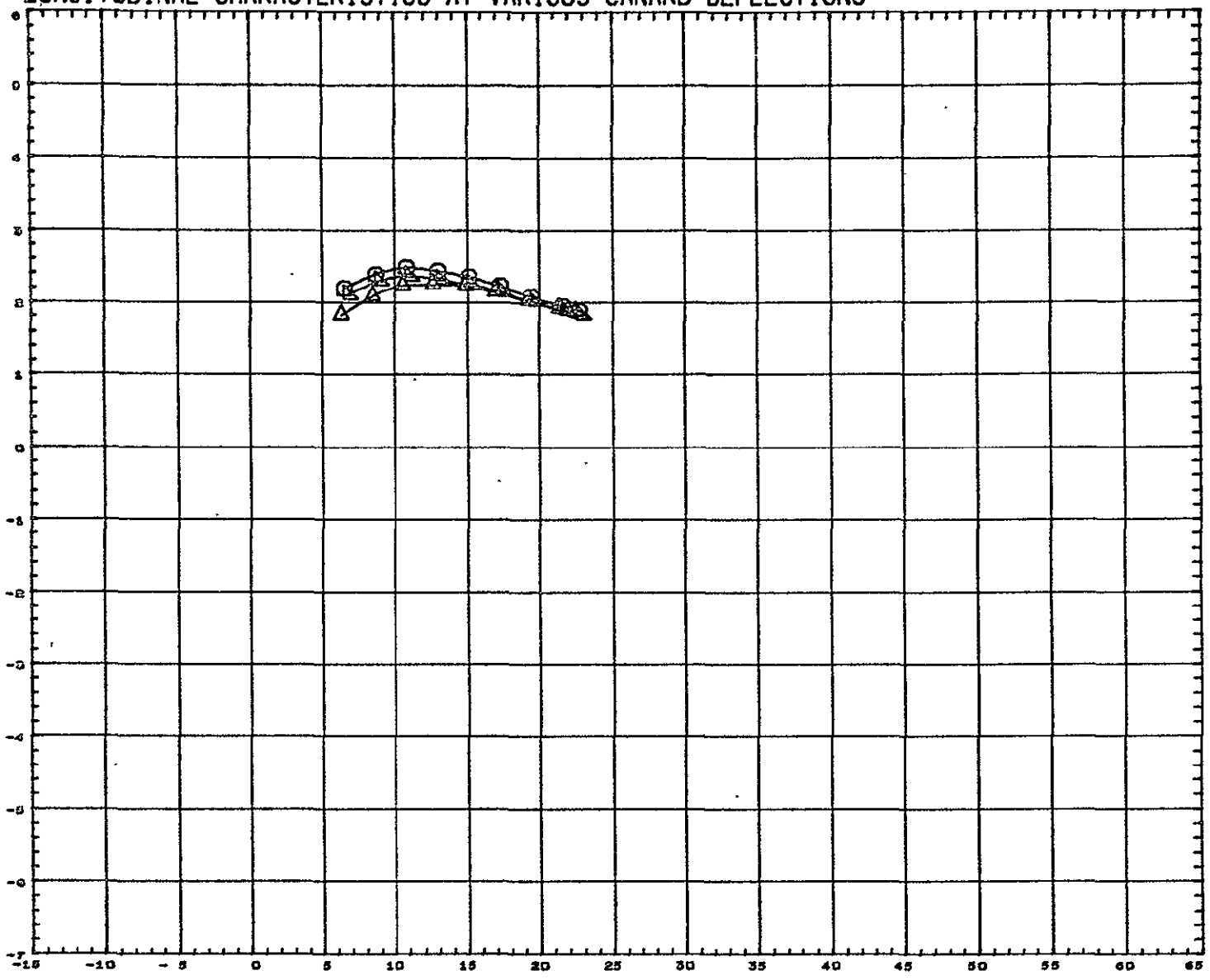


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26002)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E26C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.105

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

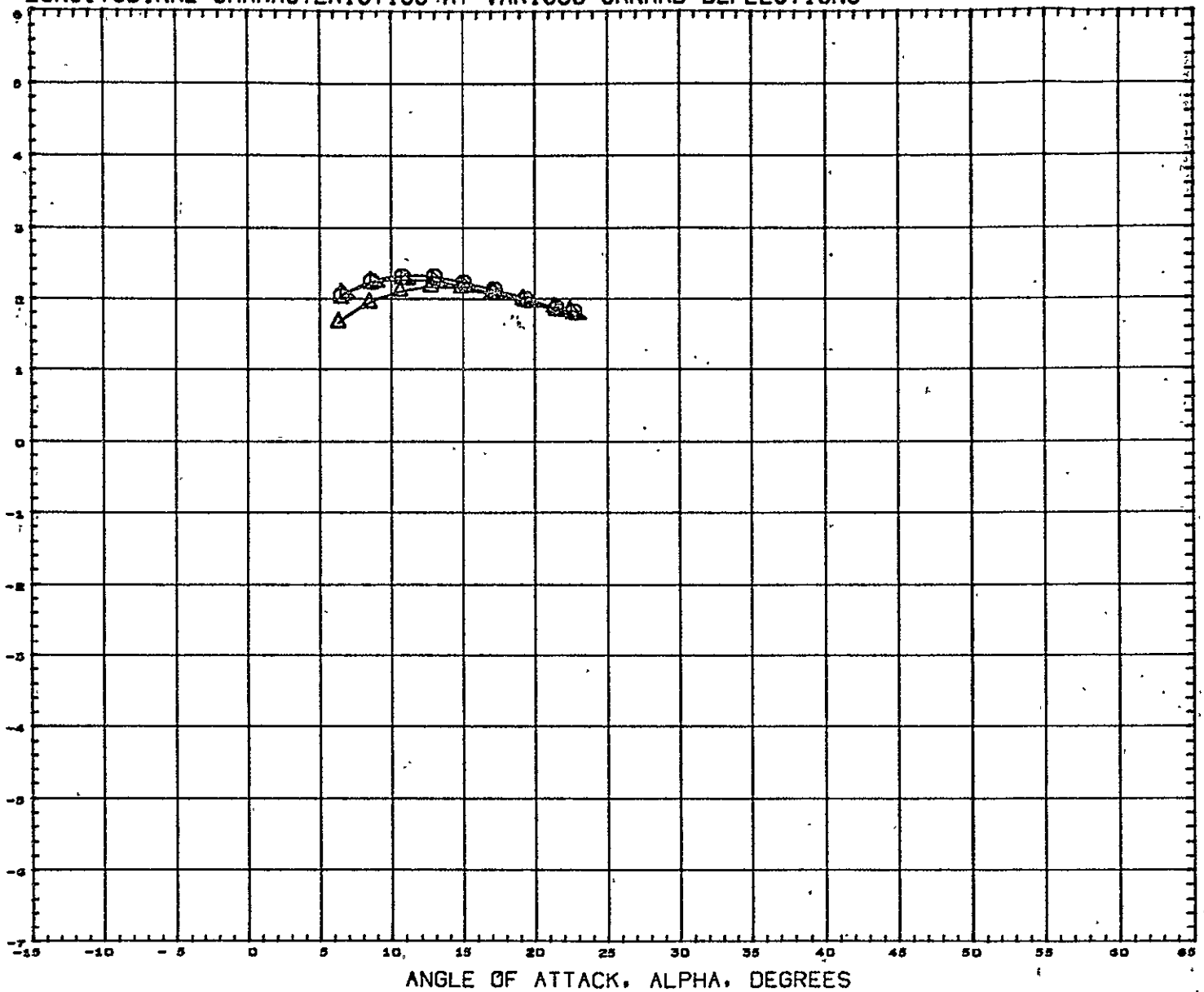


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.201

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

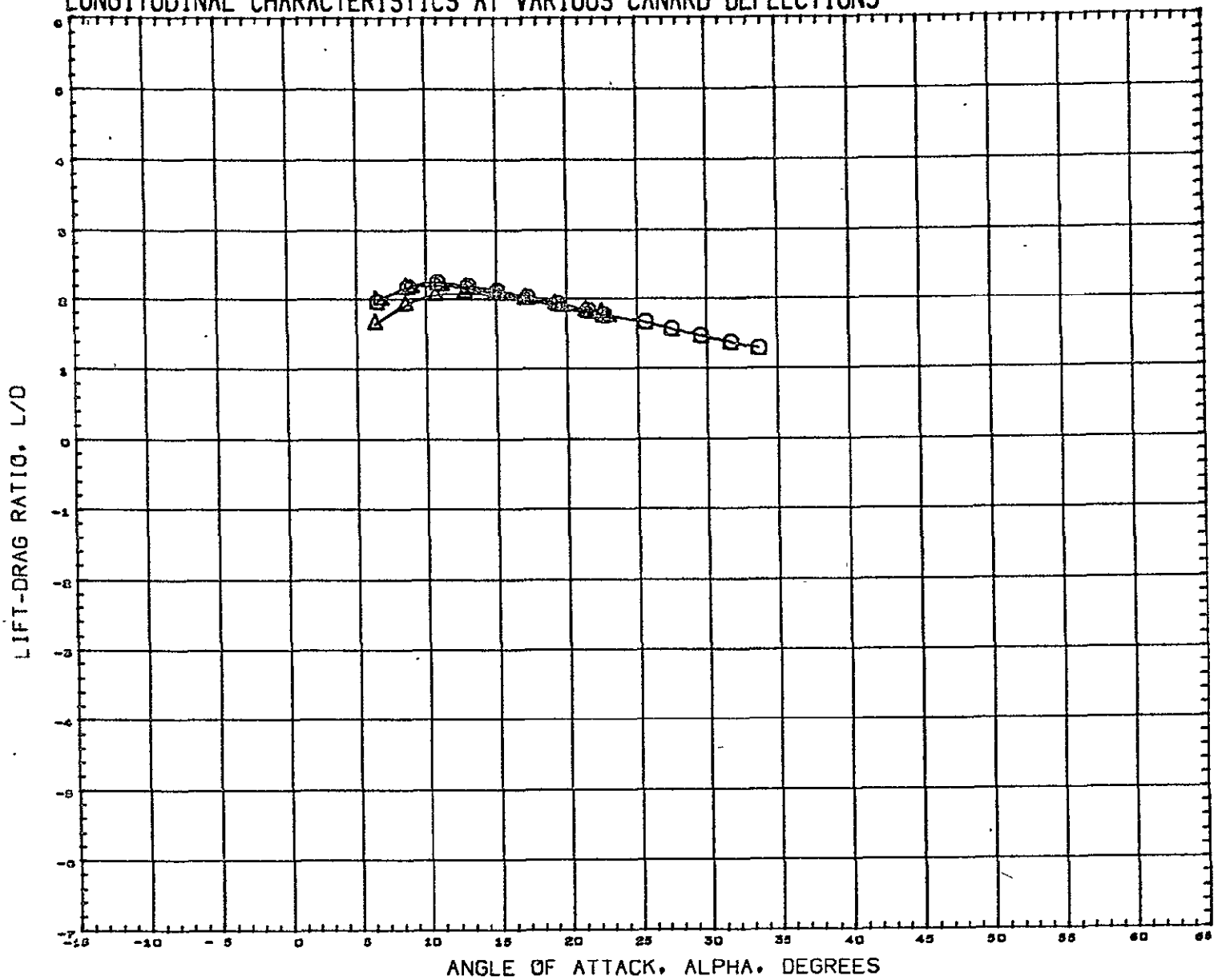


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 461 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.462

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

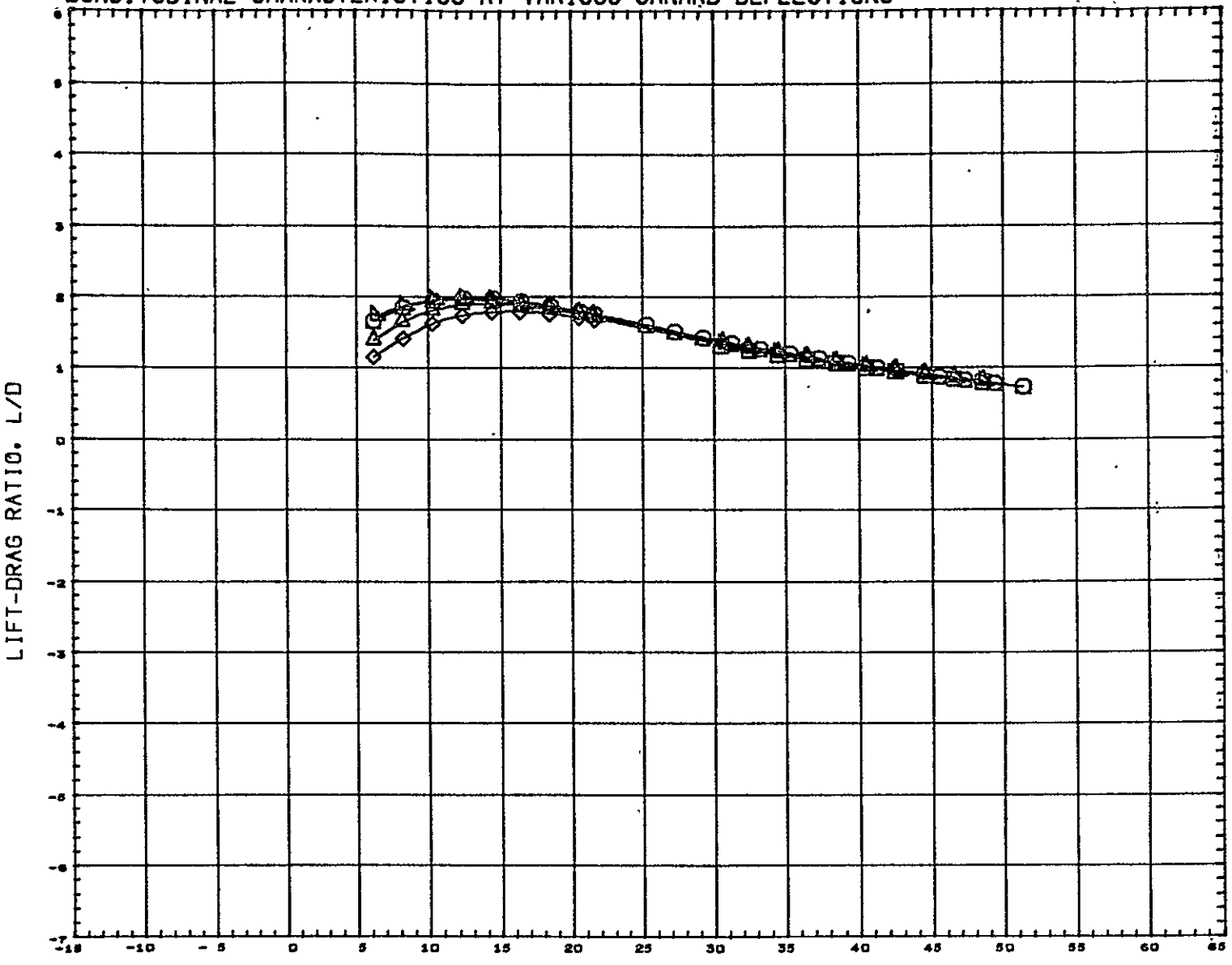


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 461 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.5560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.956

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

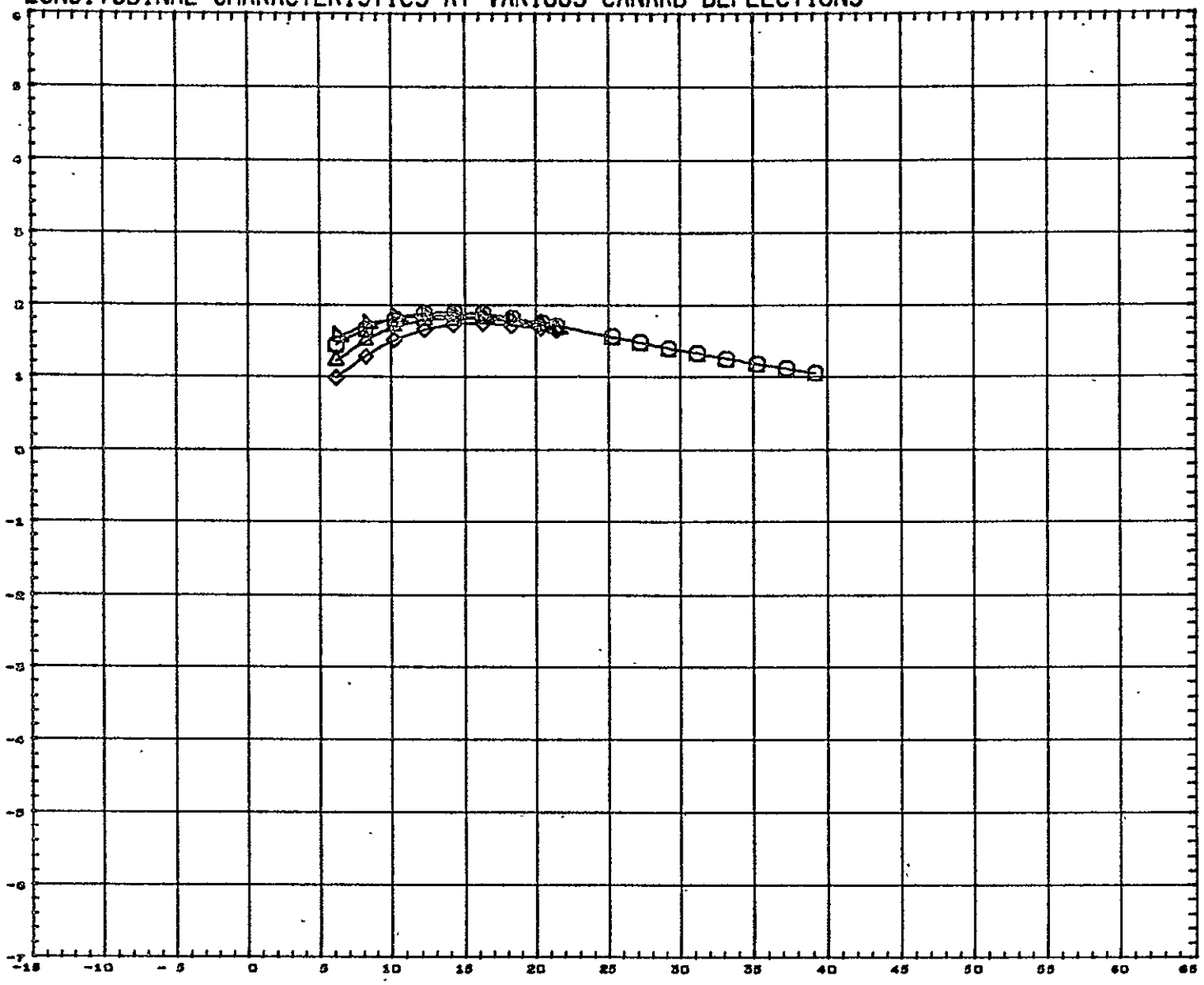


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

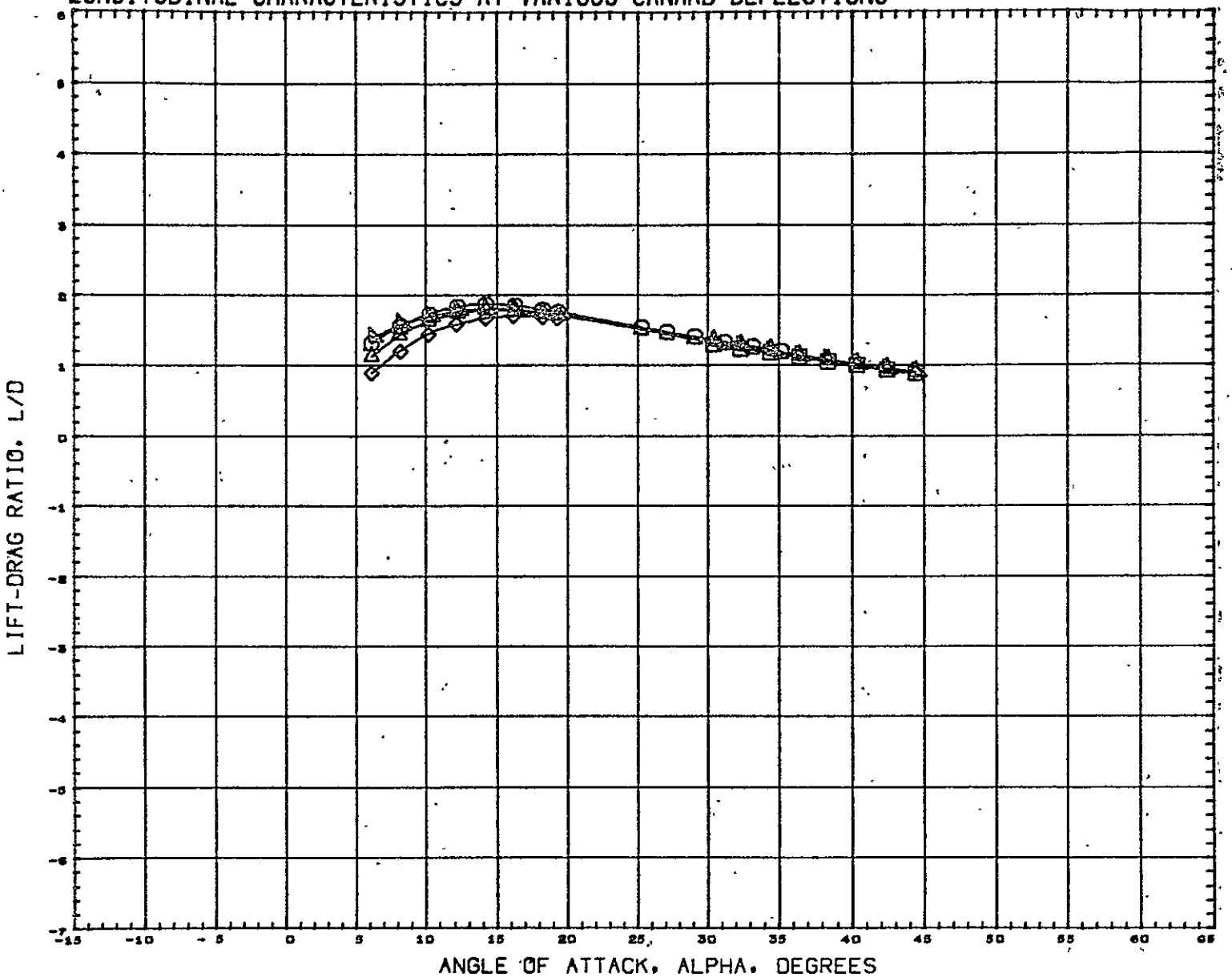


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 401 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

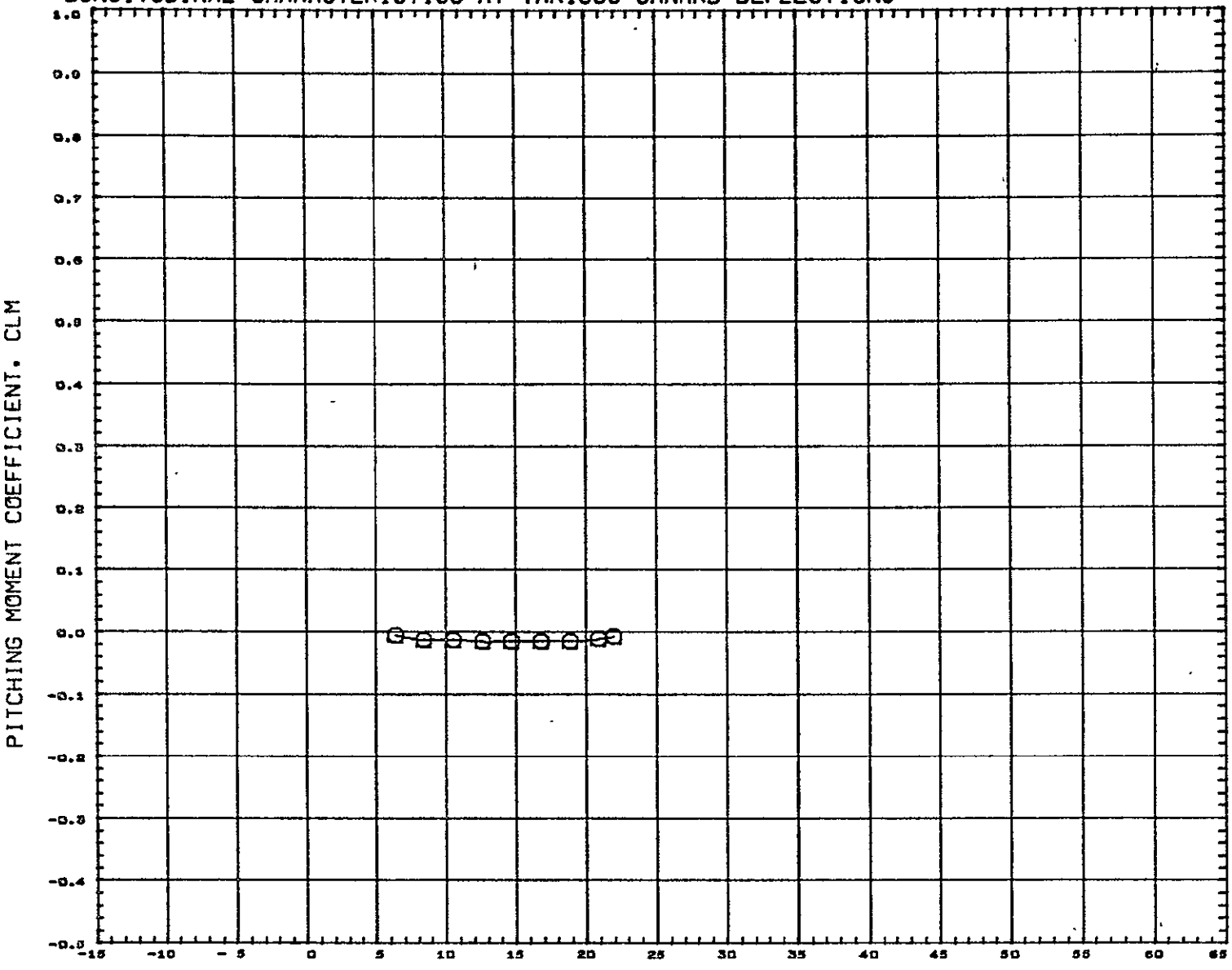


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C90)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

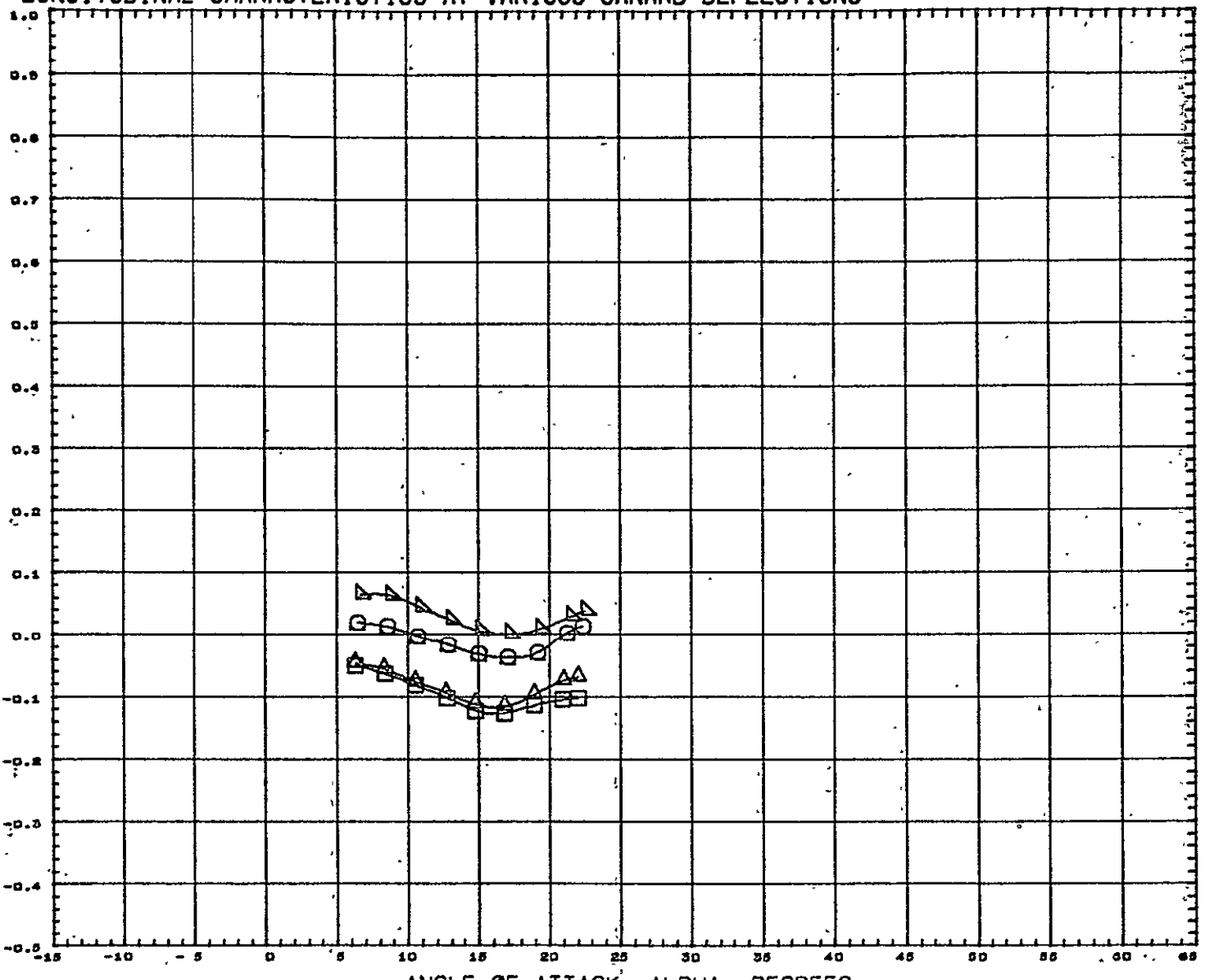


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	M5FC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E28C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

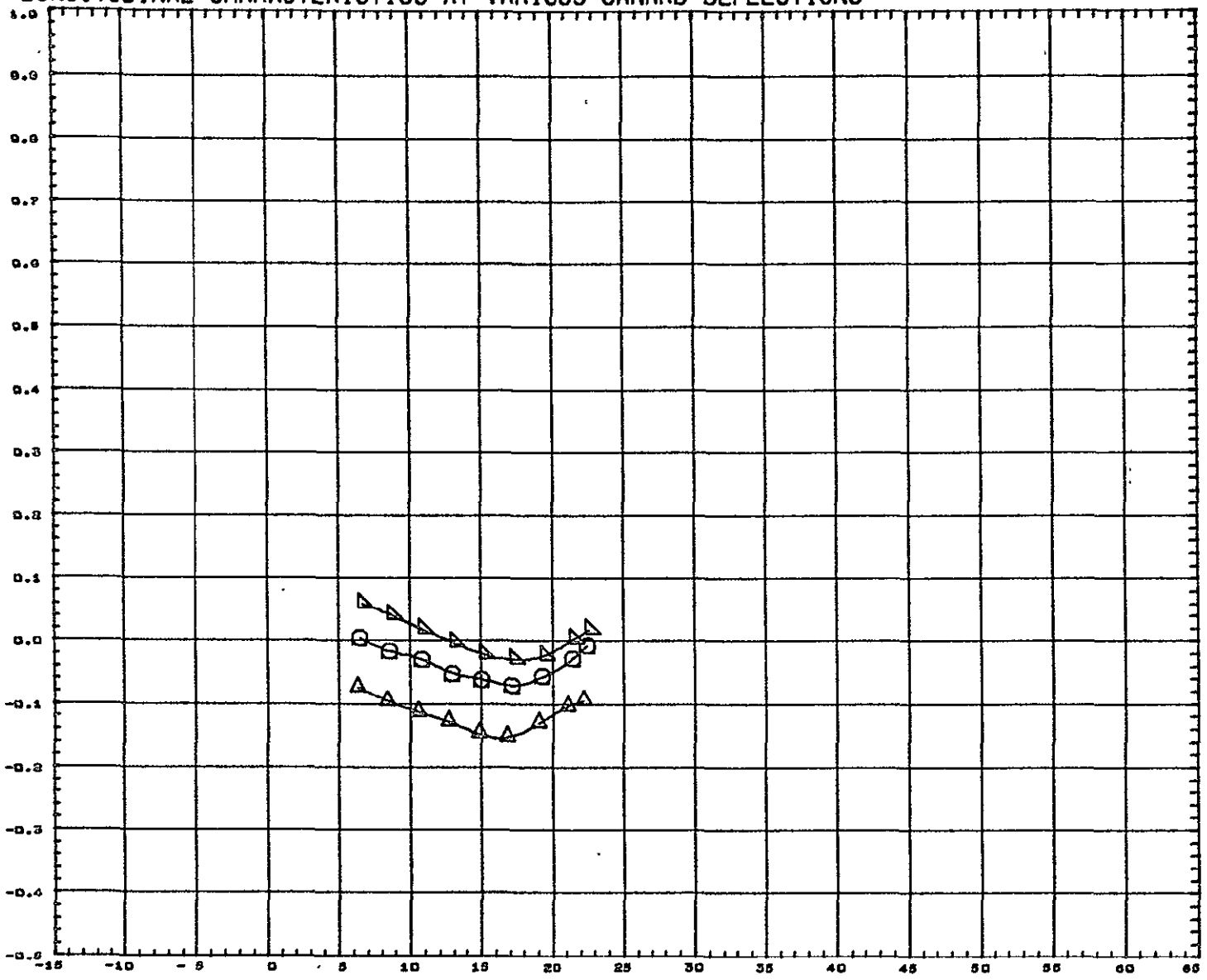


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(CZ8001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(CZ8009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(EZ8C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(CZ8010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(CZ8011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 0.900

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

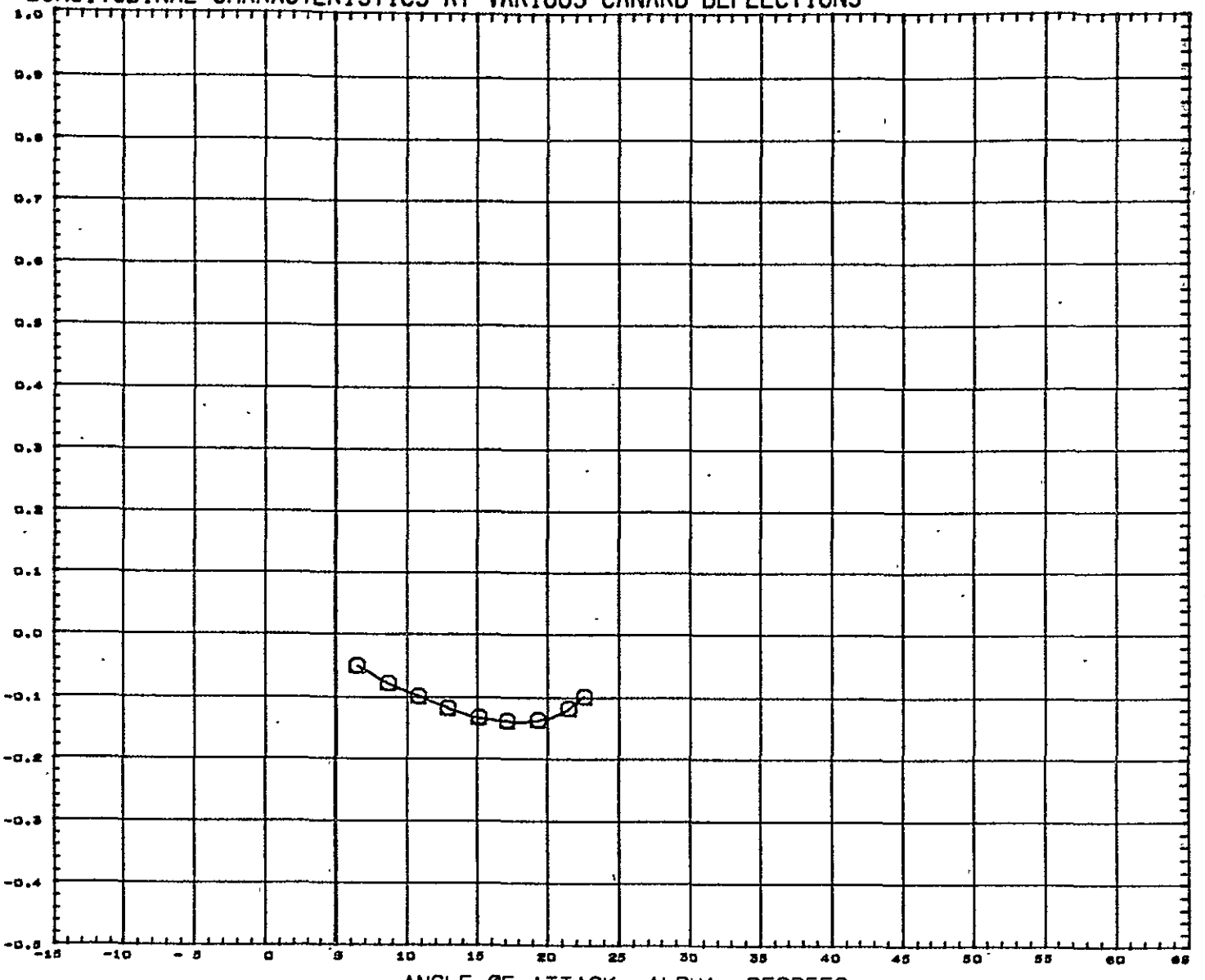


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E26C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.954

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

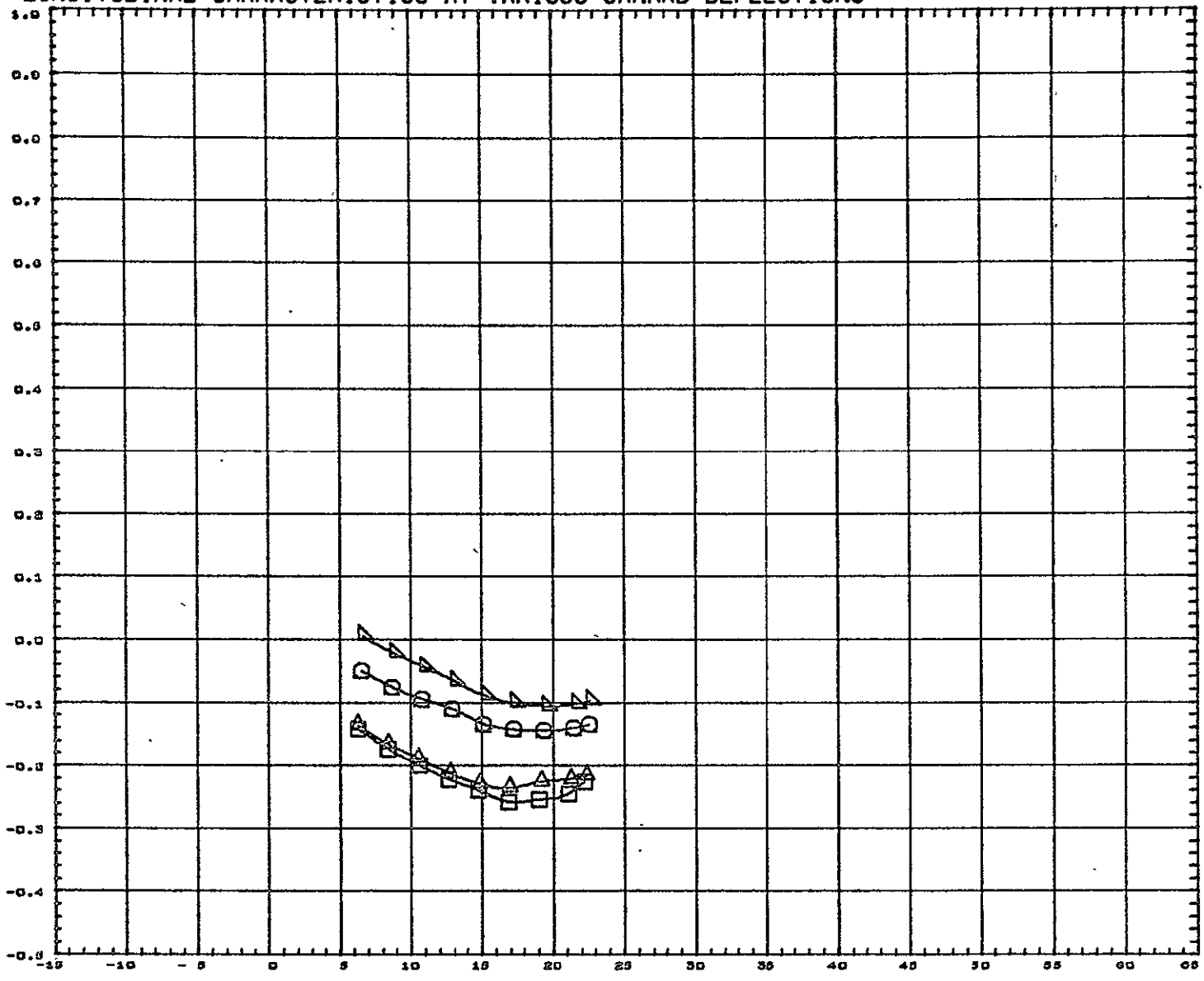


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 1.007

REFERENCE INFORMATION		
SREF	15.6360	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

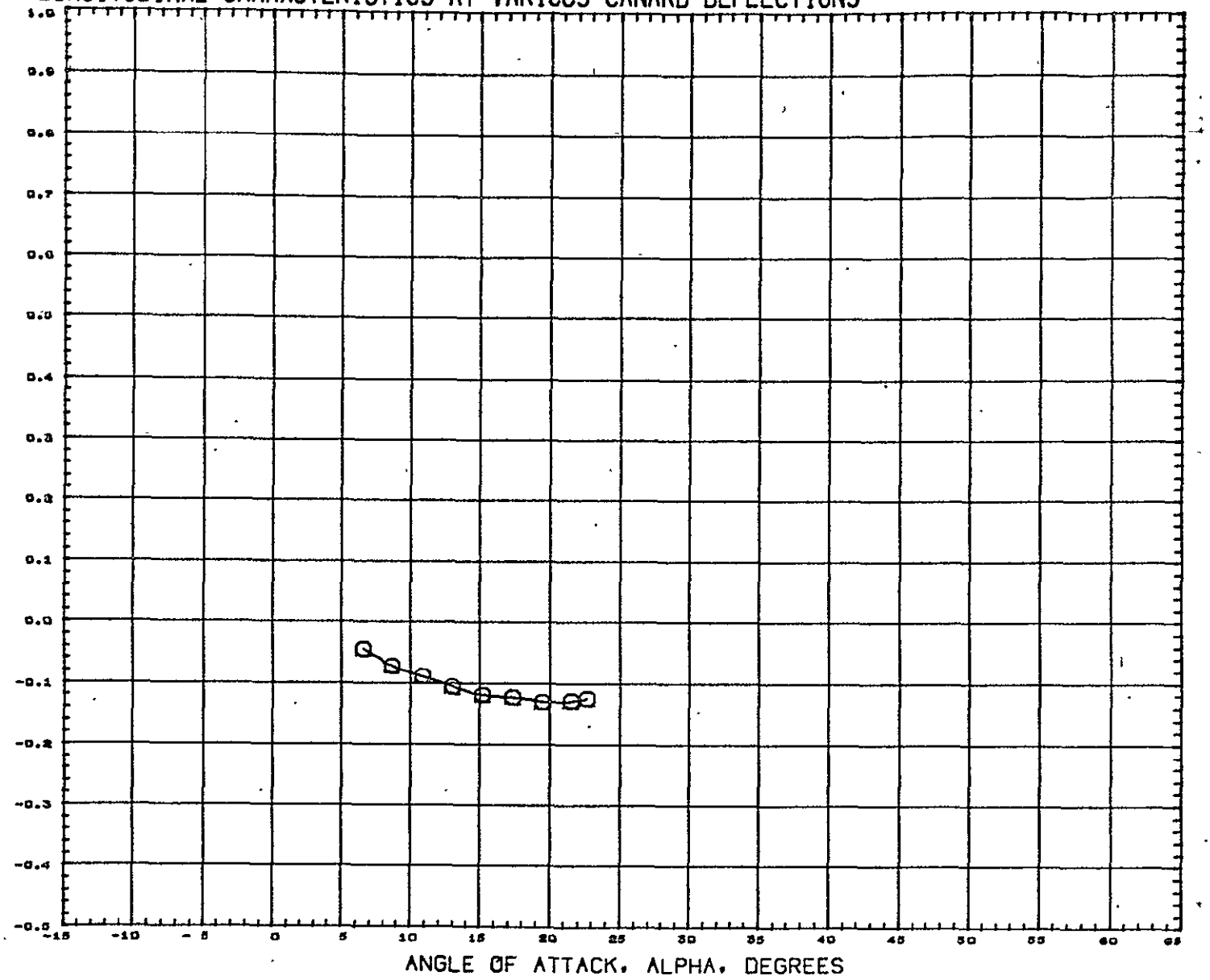


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.051

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

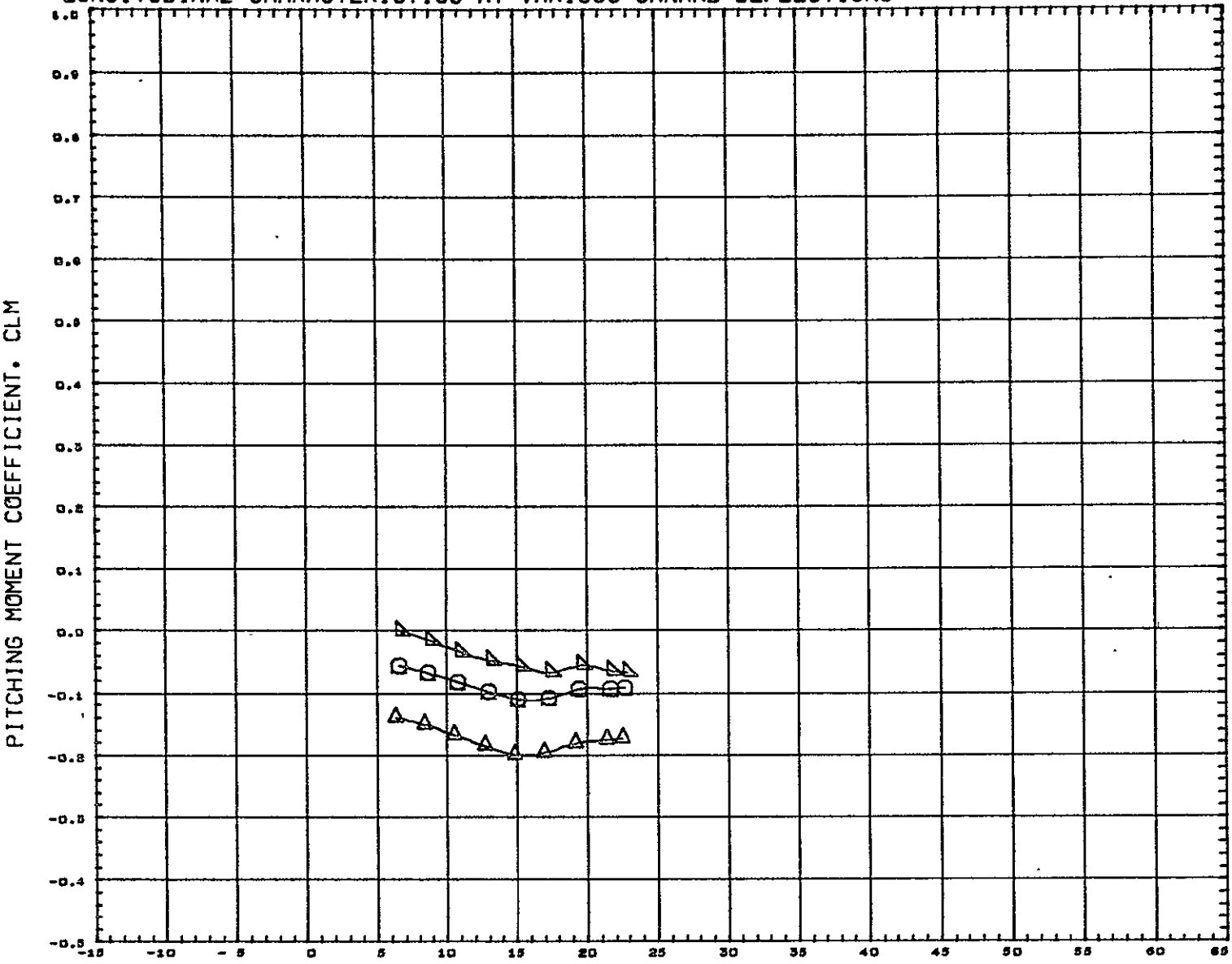


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 1.105

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

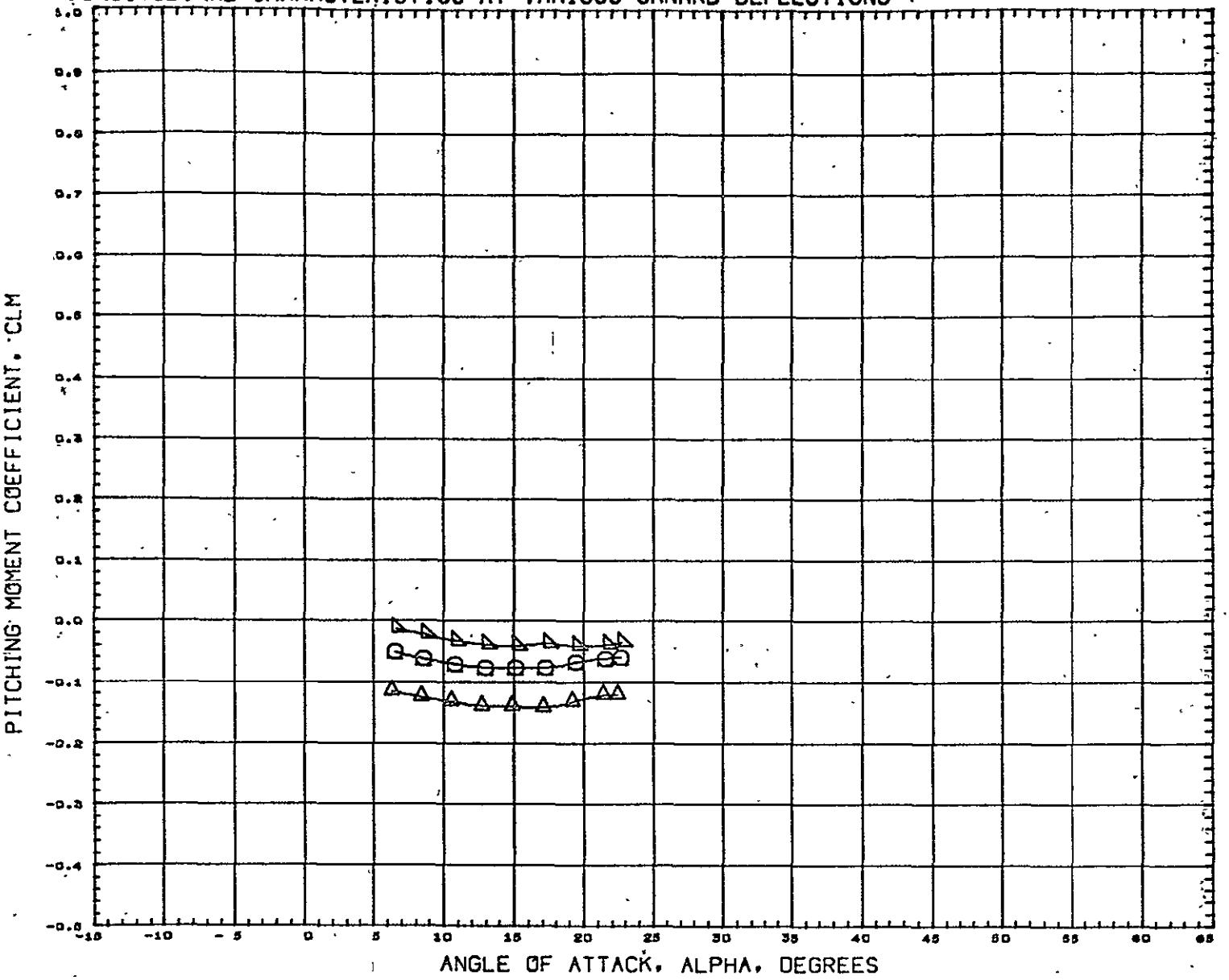


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 401 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

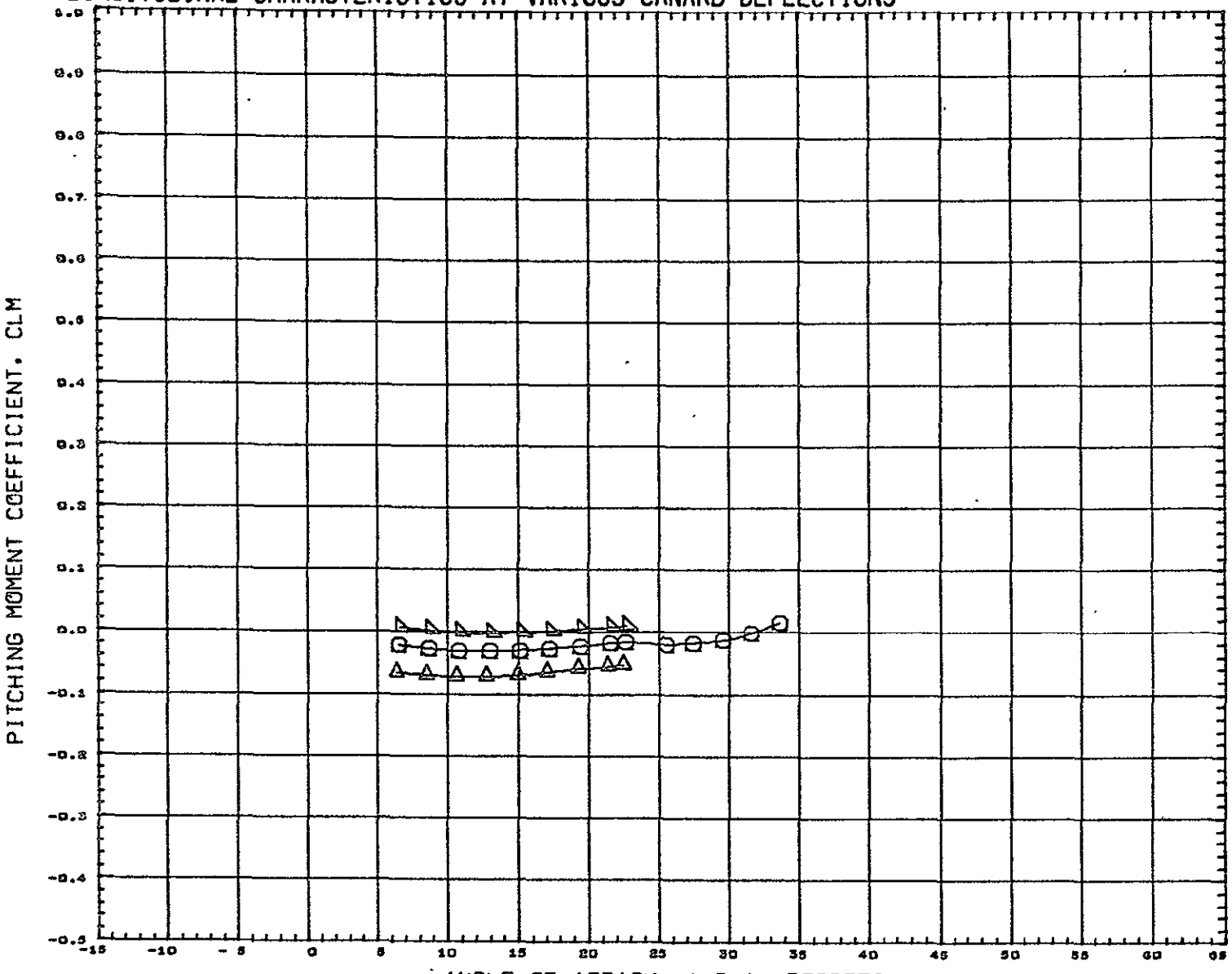


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	MSFC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)	▷	MSFC 461 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.462

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

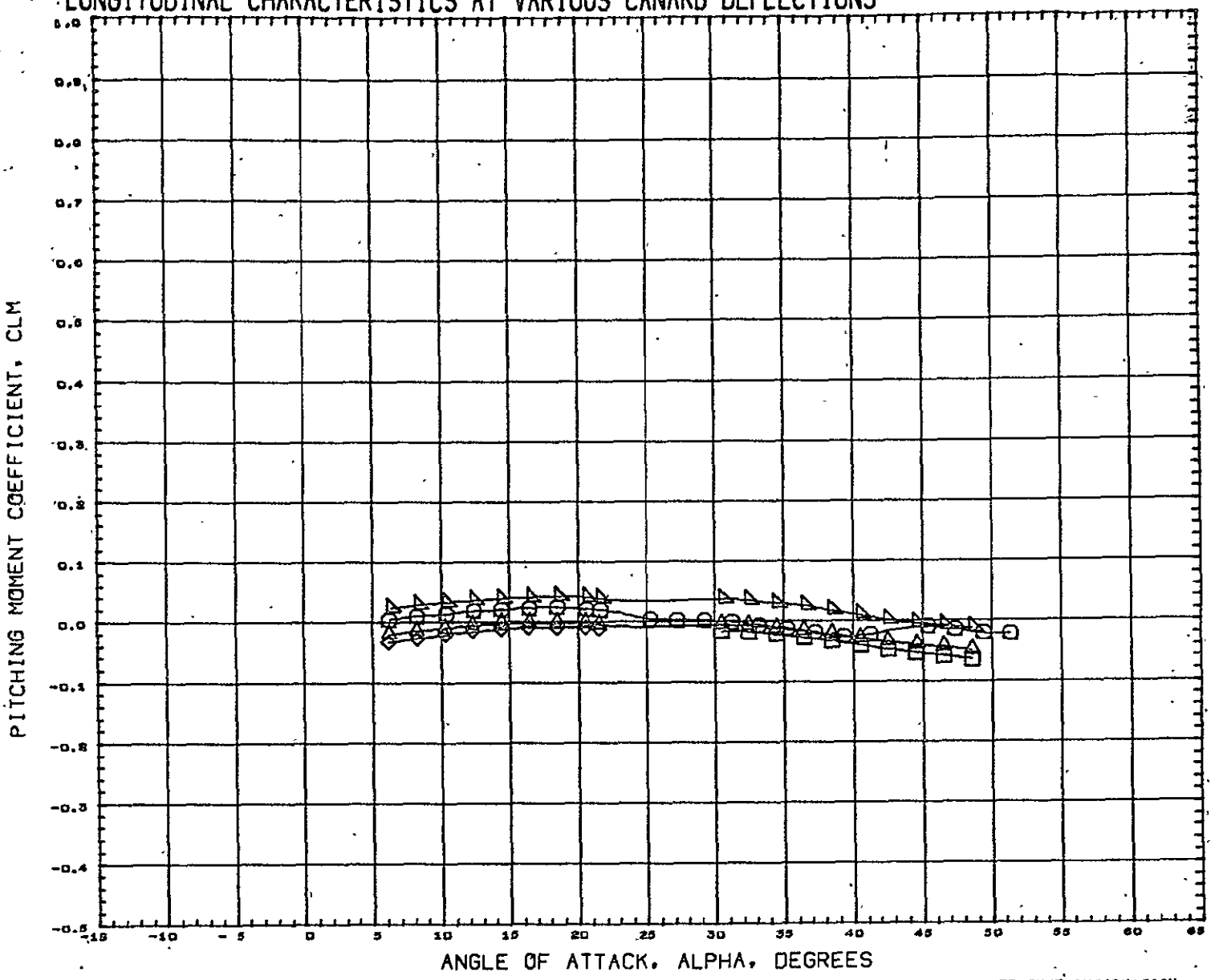


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E26C90)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)	▽	MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.958

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

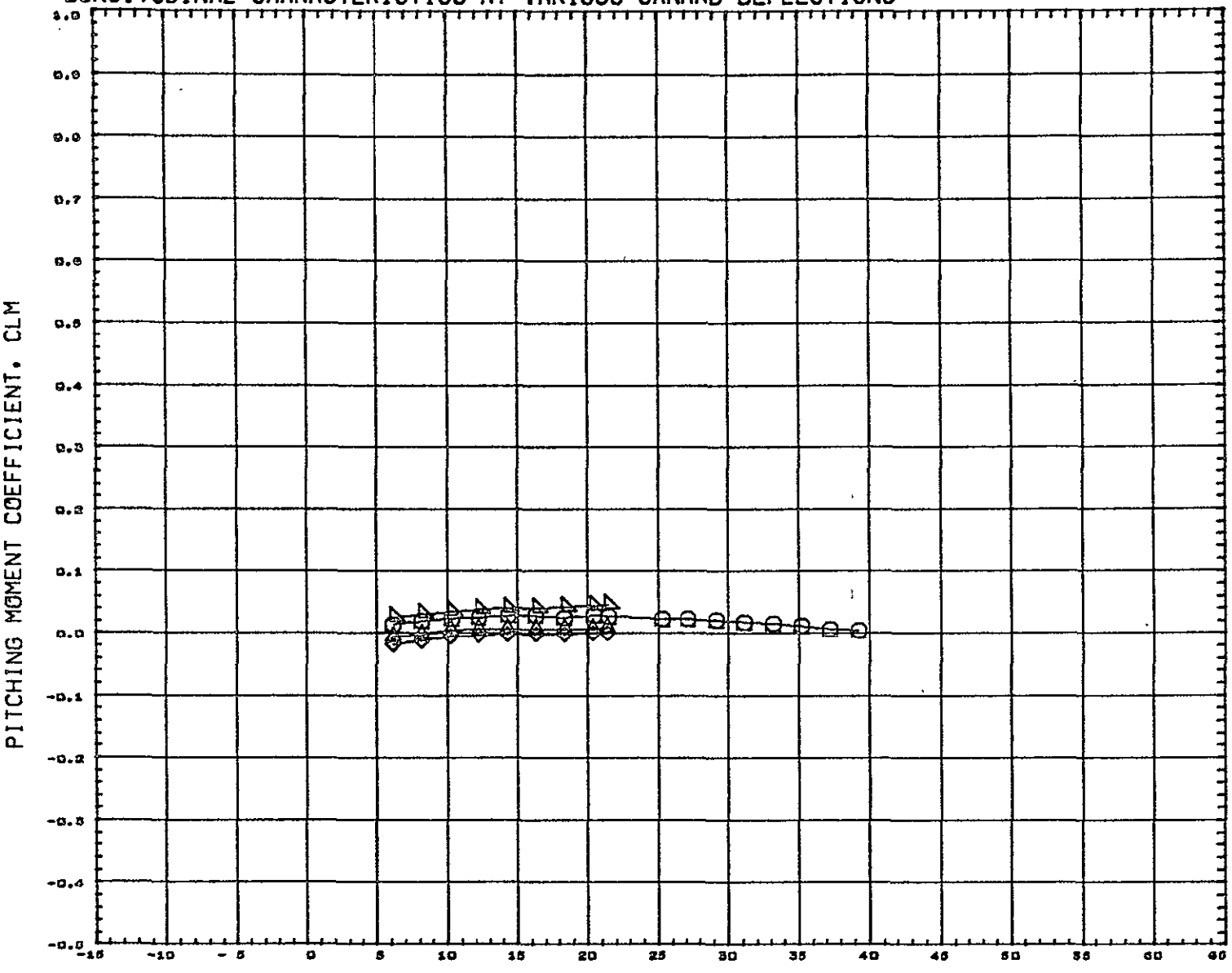


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(CZ6001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(CZ6009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(EZ6C50)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(CZ6010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(CZ6011)		MSFC 481 GD/C BOOSTER 'B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

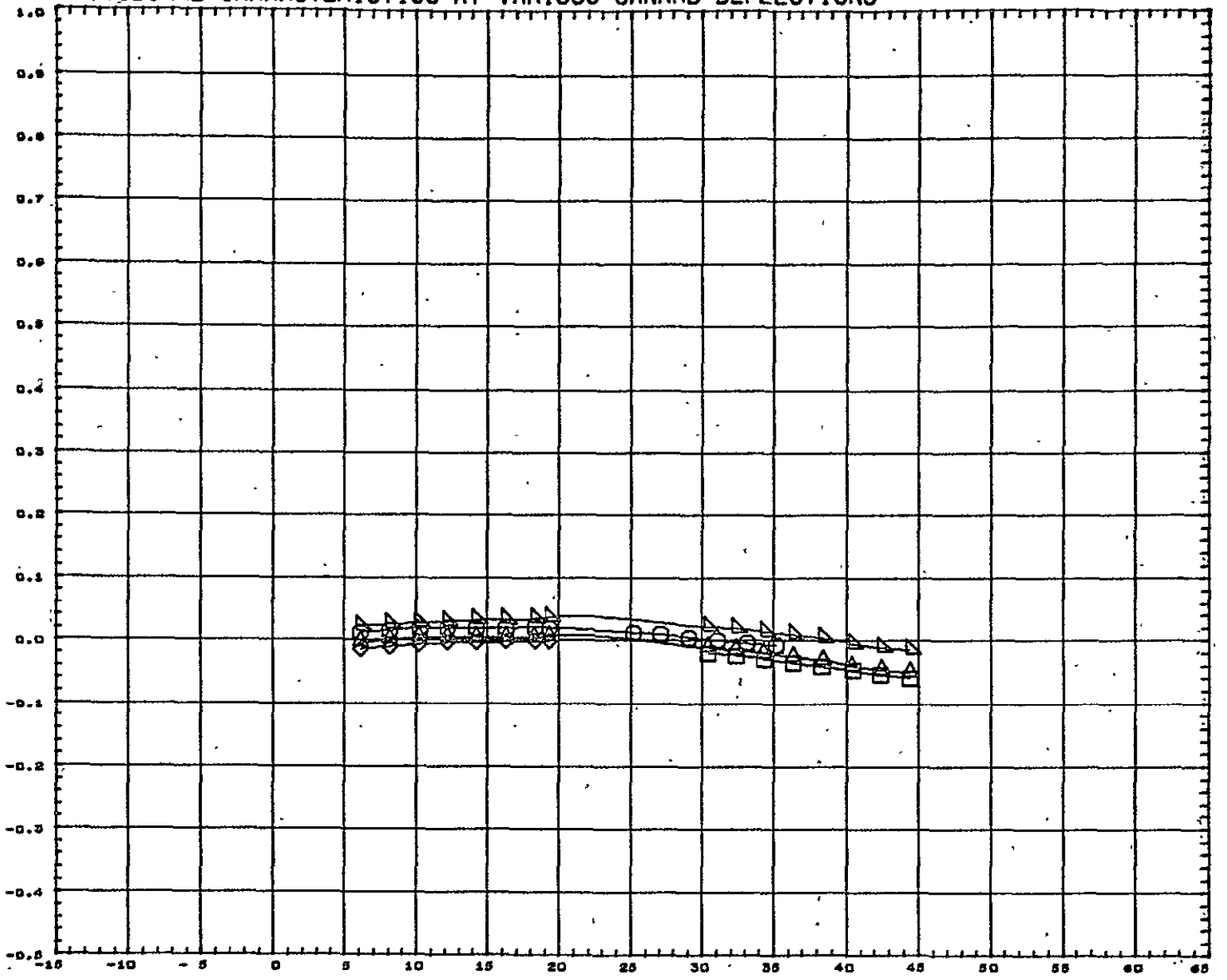


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(C26C50)		MSFC 461 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C26010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)		MSFC 461 GD/C BOOSTER B19W14C4A87	15.000	0.000		0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

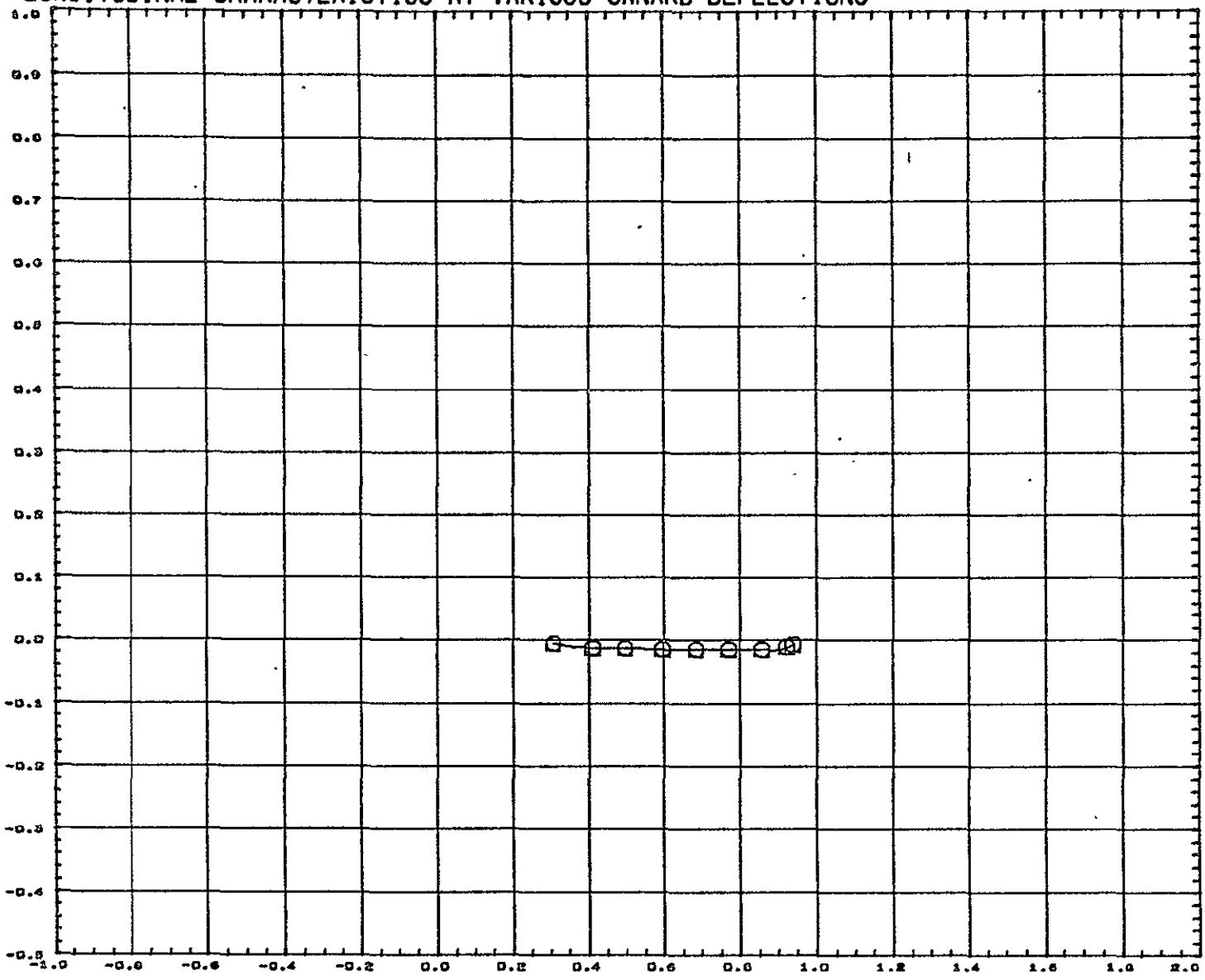


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(CZ8001)		HSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(CZ8009)		HSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(EZ8C50)		HSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(CZ8010)		HSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(CZ8011)		HSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 4.960

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

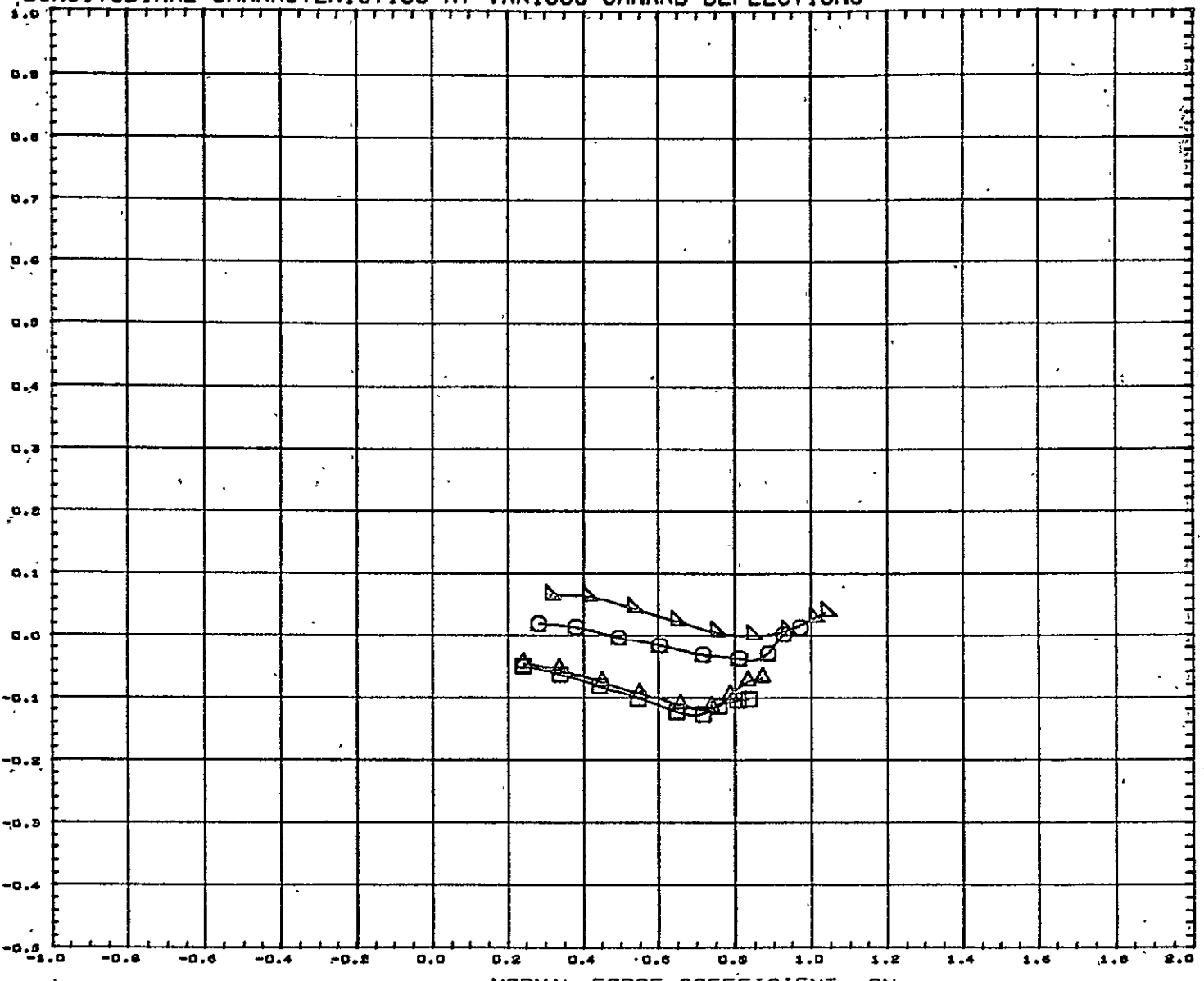


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(CZ0001)		M5FC401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(CZ0009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(EZ0C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(CZ001D)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(CZ0011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

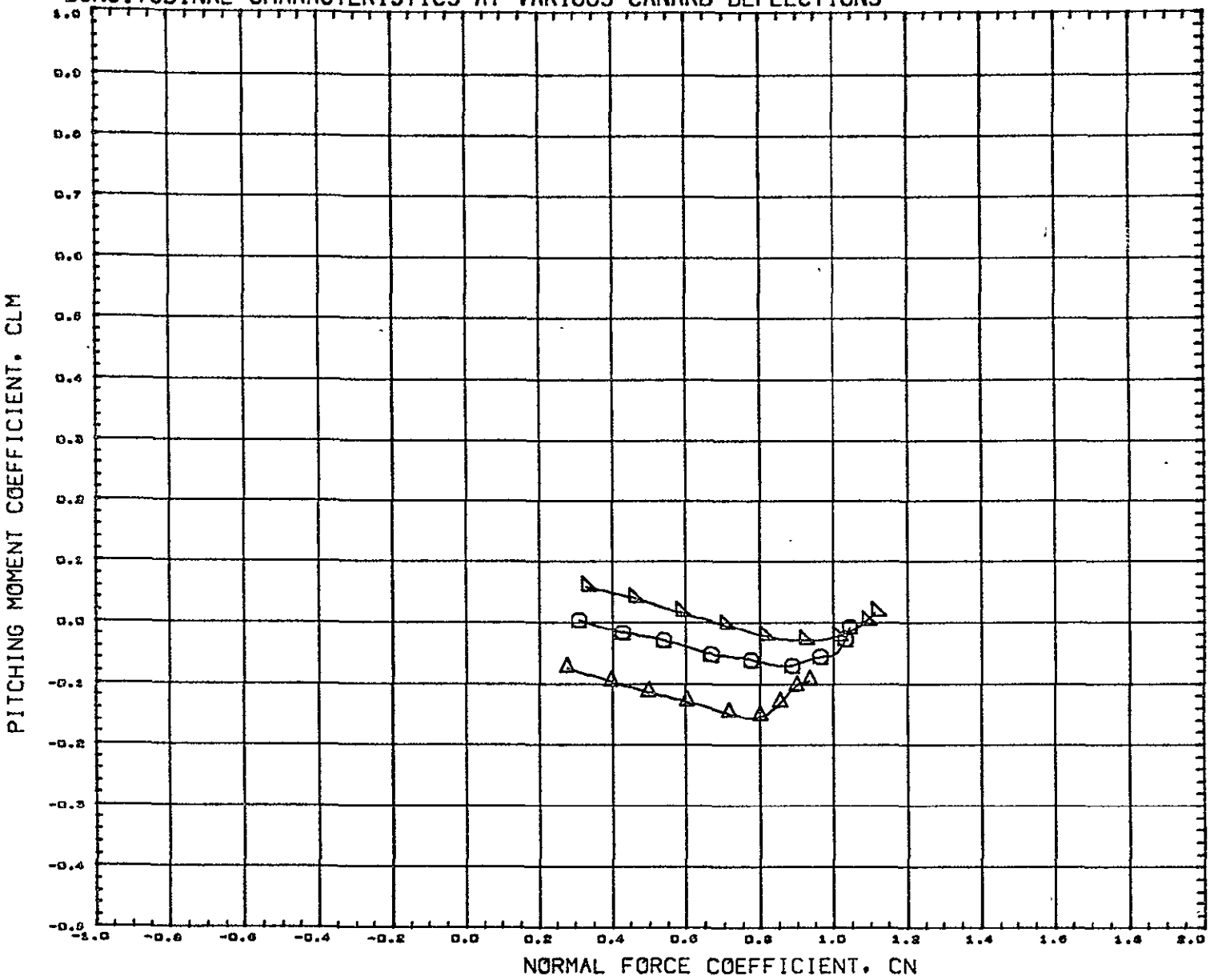


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)	▽	MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 0.900

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

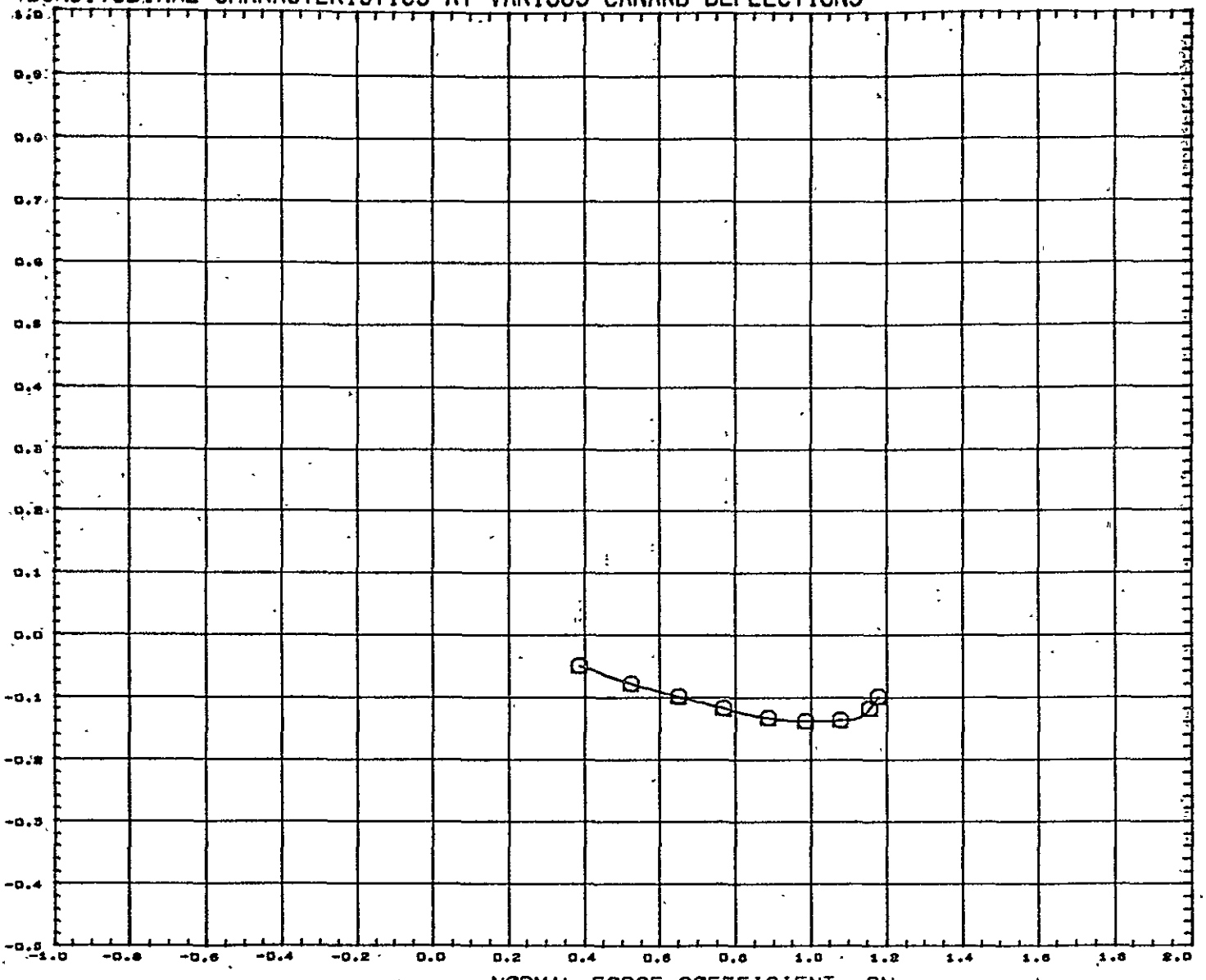


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C20001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C20009)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E20C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C20010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C20011)		MSFC 461 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 0.954

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

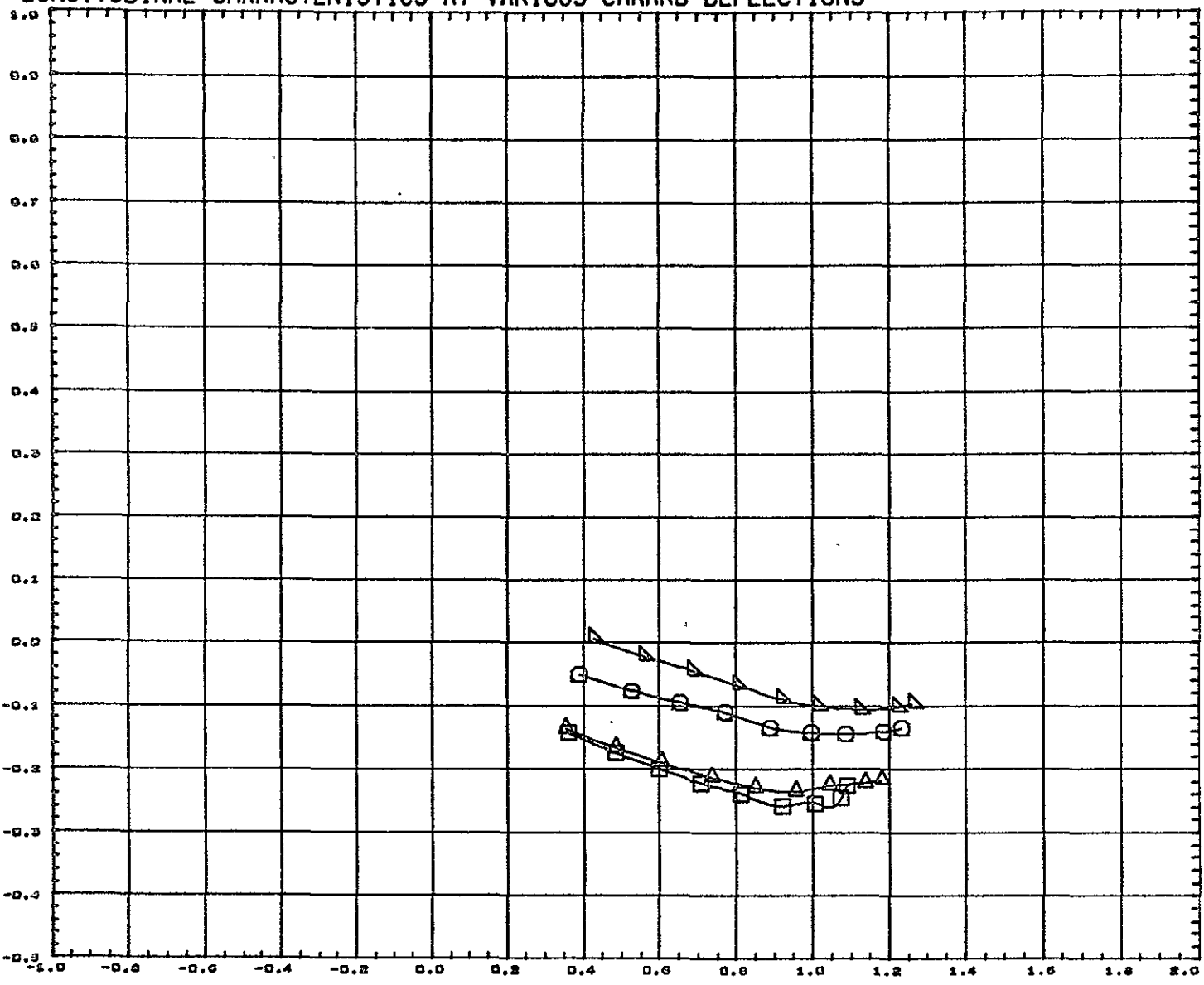


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E28C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 1.007

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

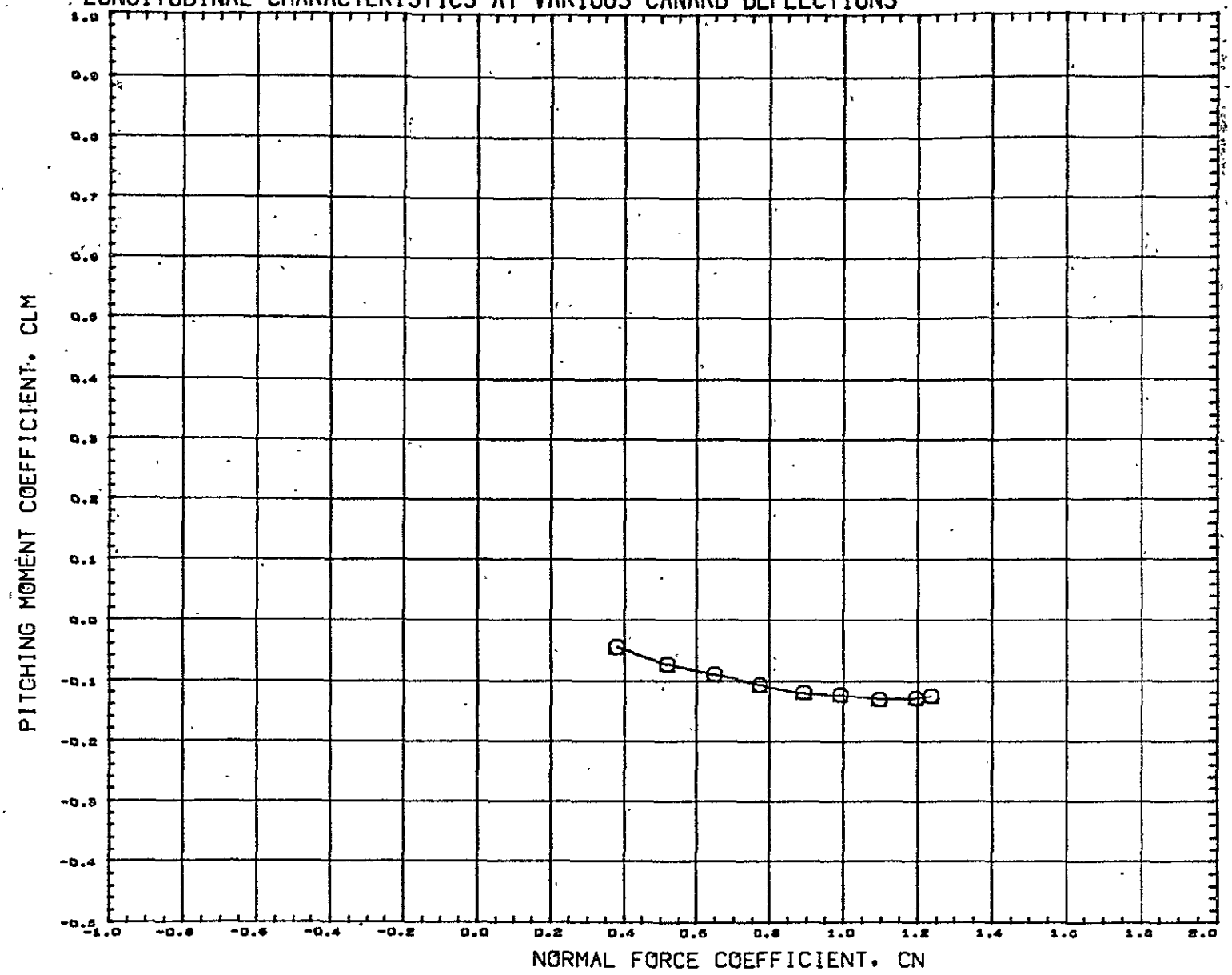


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)		MSFC401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)		MSFC401 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E26C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)		MSFC401 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C26011)		MSFC 401 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



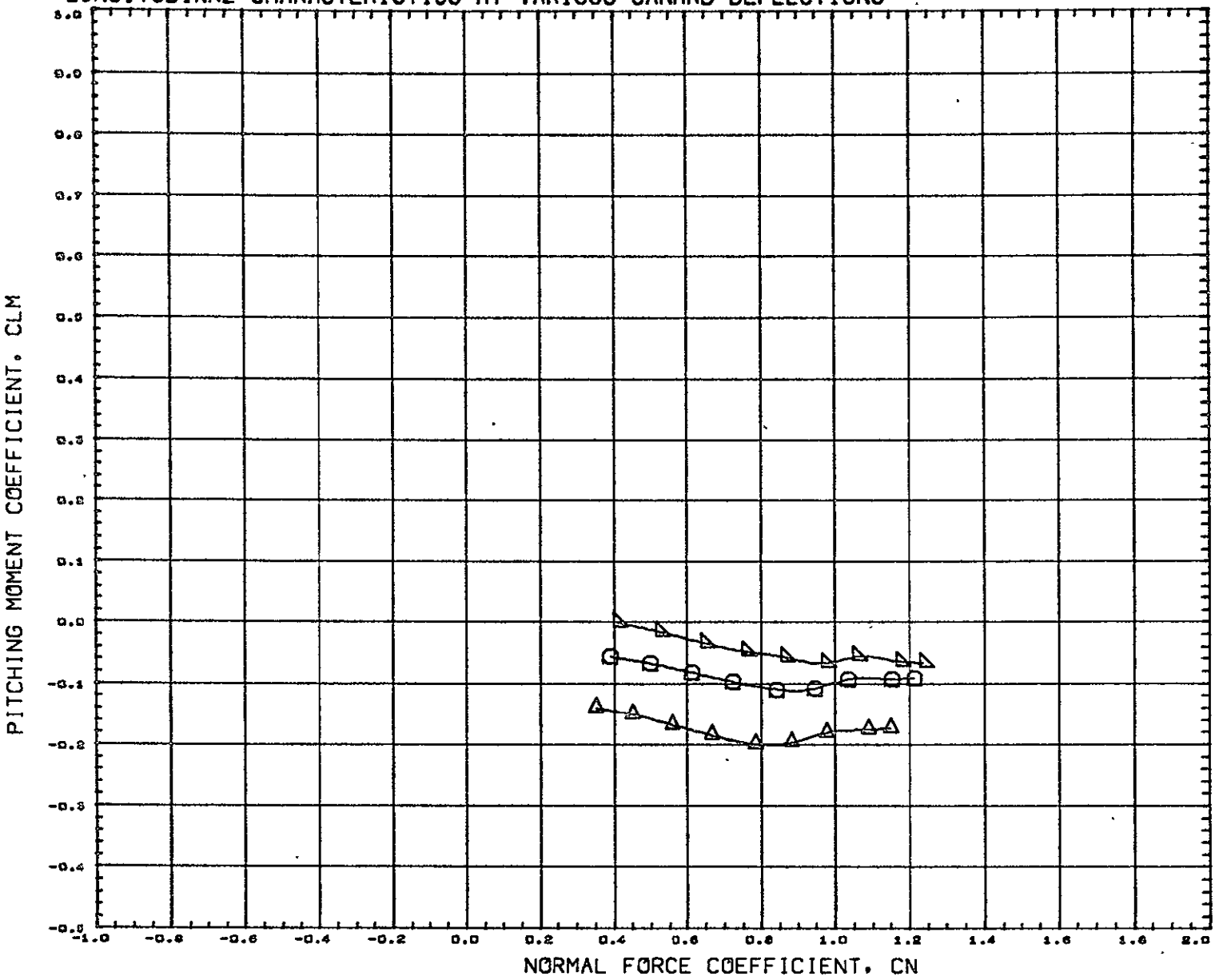
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28009)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(C28011)		DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 1.105

CANARD	ELEVON	RUDDER	BETA
0.000	0.000		0.000
-30.000	0.000		0.000
-45.000	0.000		0.000
-60.000	0.000		0.000
15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

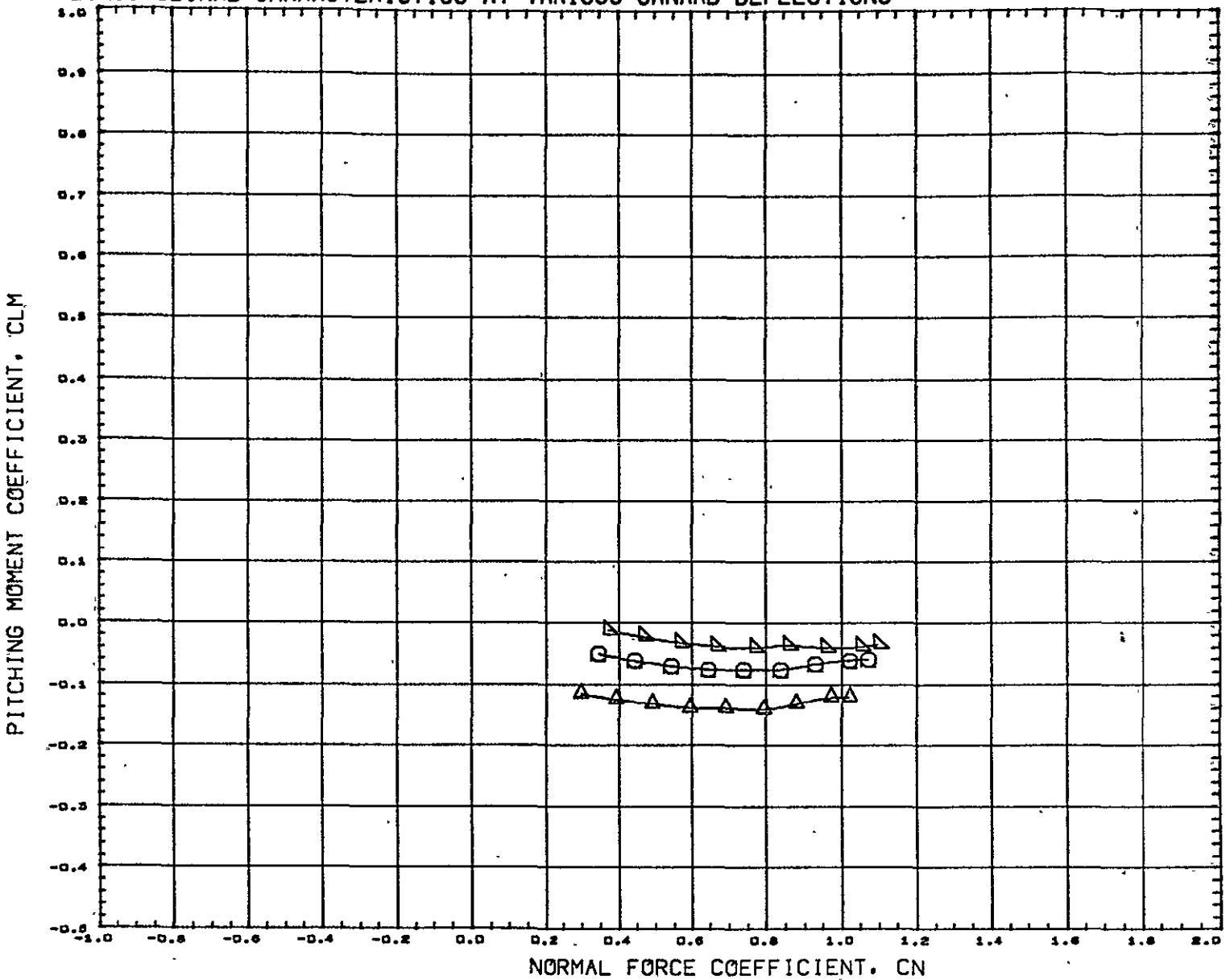


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28000)		MSFC401 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 401 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0039	

HACN 1.201

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

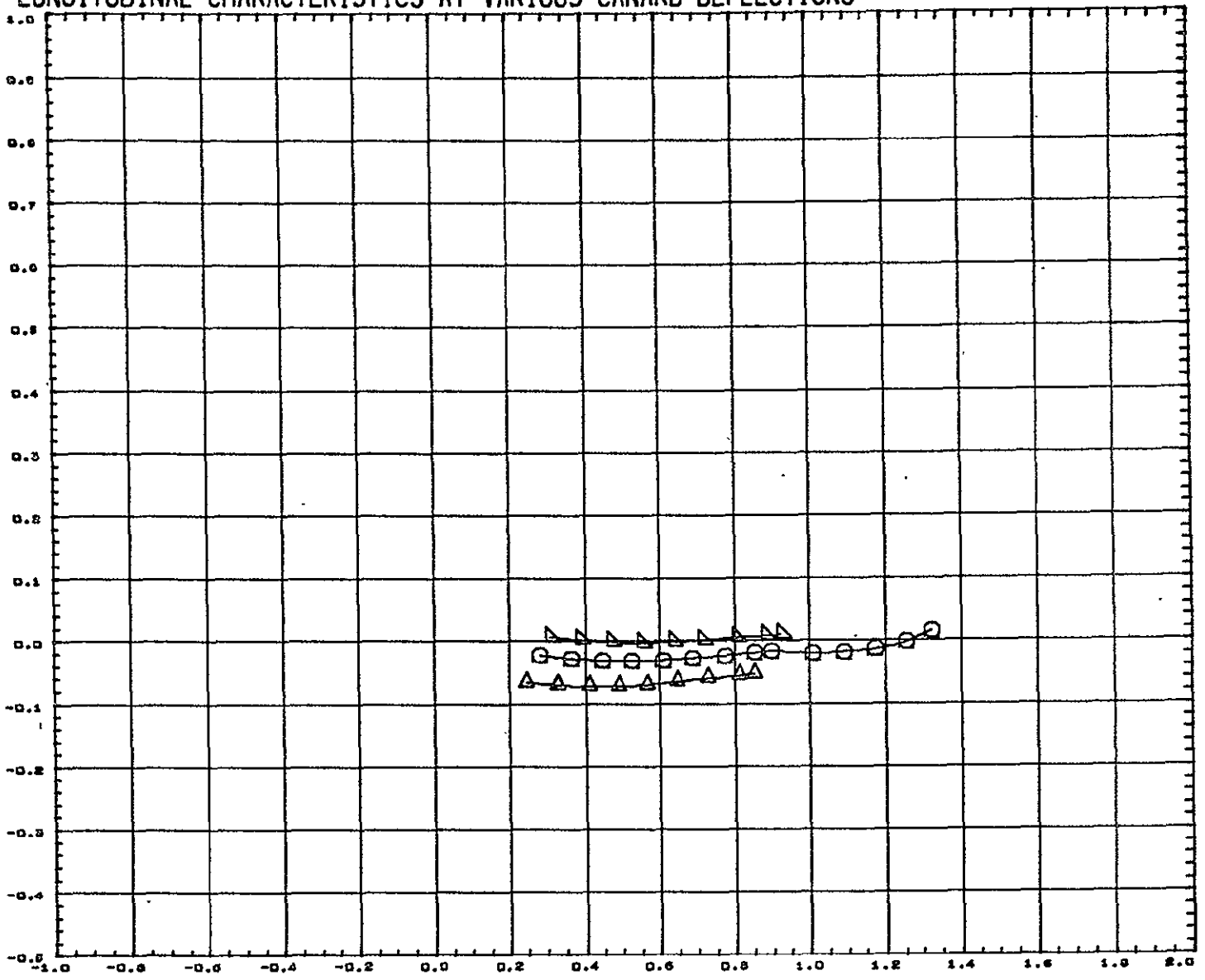


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		M5FC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		M5FC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28D10)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		M5FC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.462

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0038	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

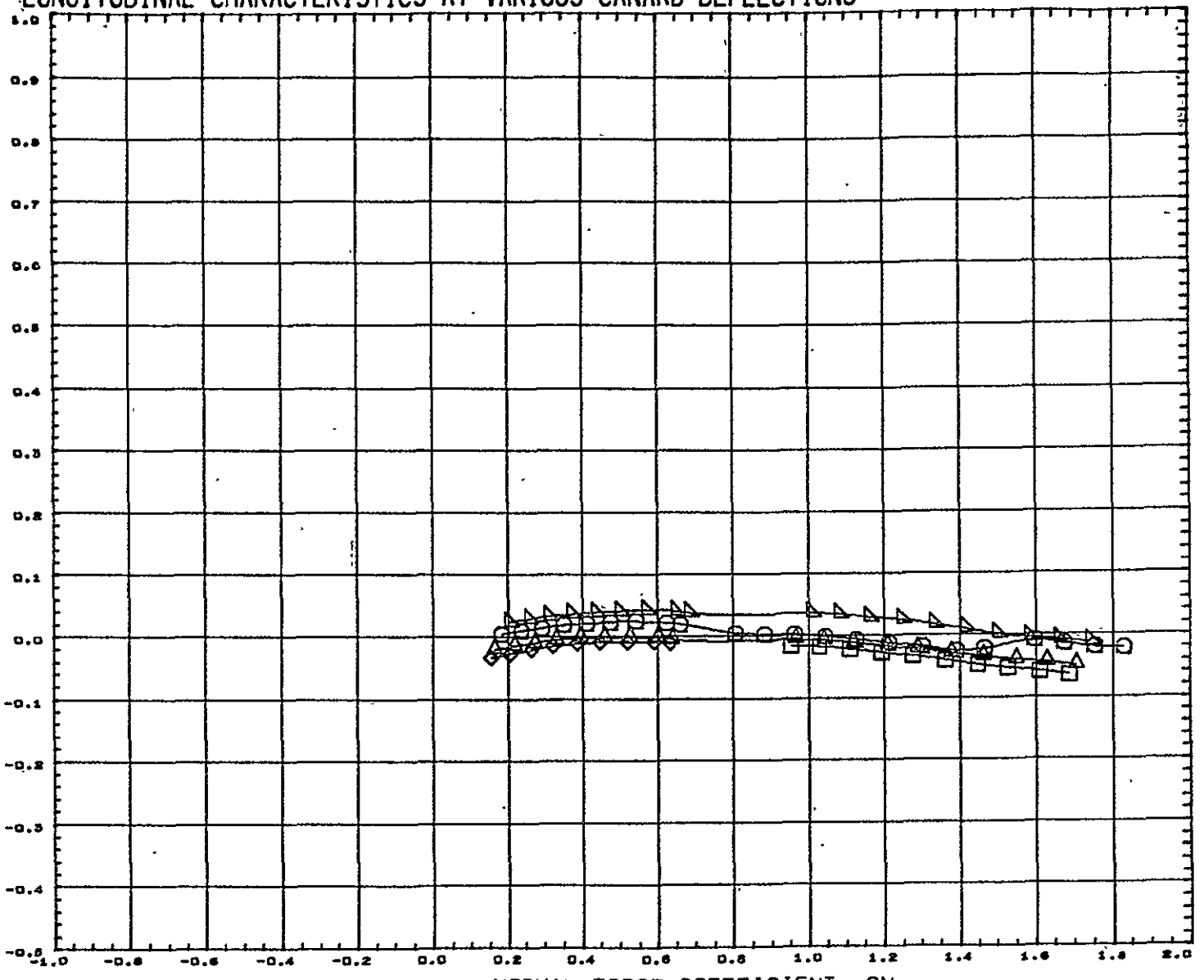


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4A07	15.000	0.000		0.000

MACH 1.956

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

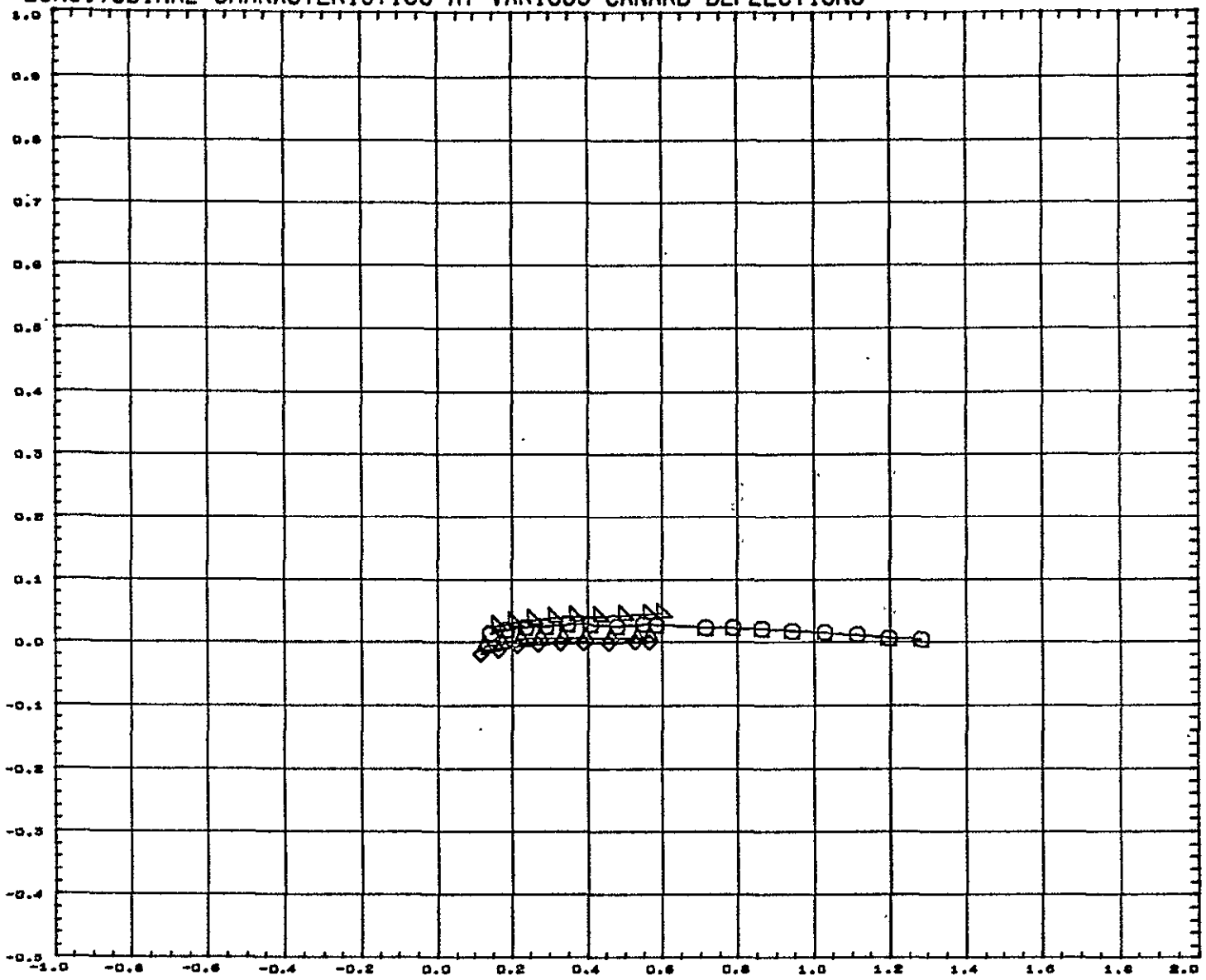


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(CZ8001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(CZ8009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(EZ8C50)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(CZ8010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(CZ8011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

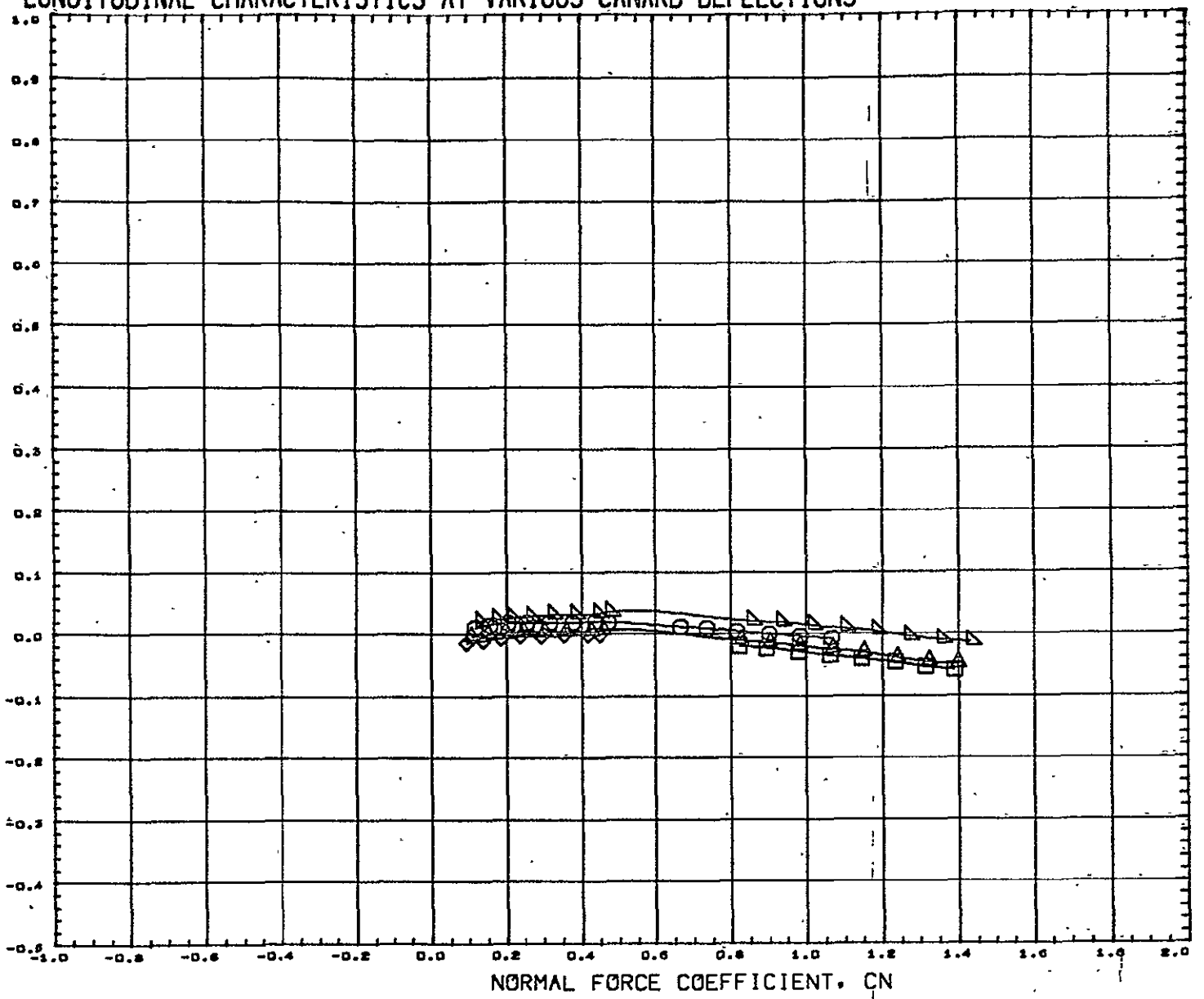


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

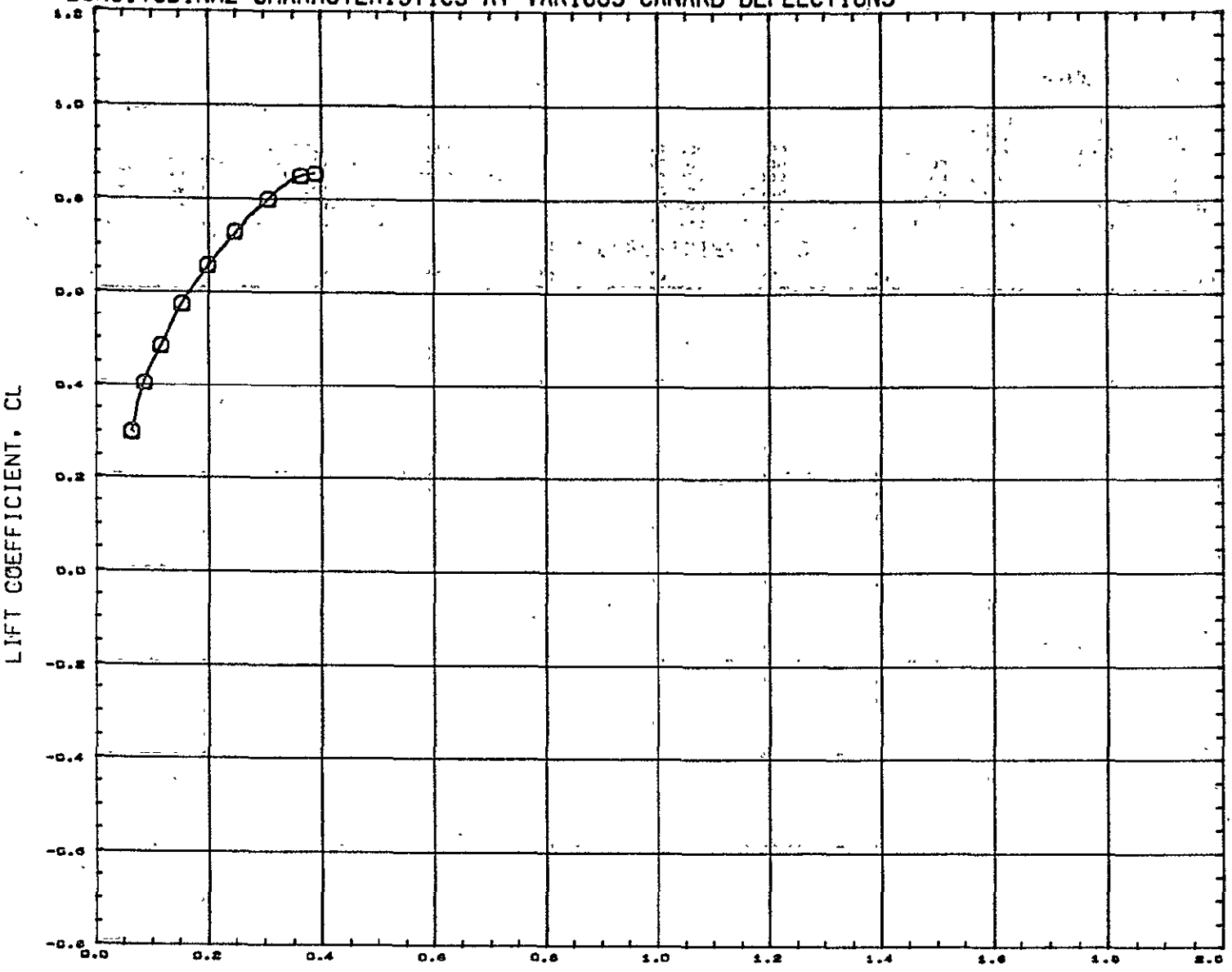


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

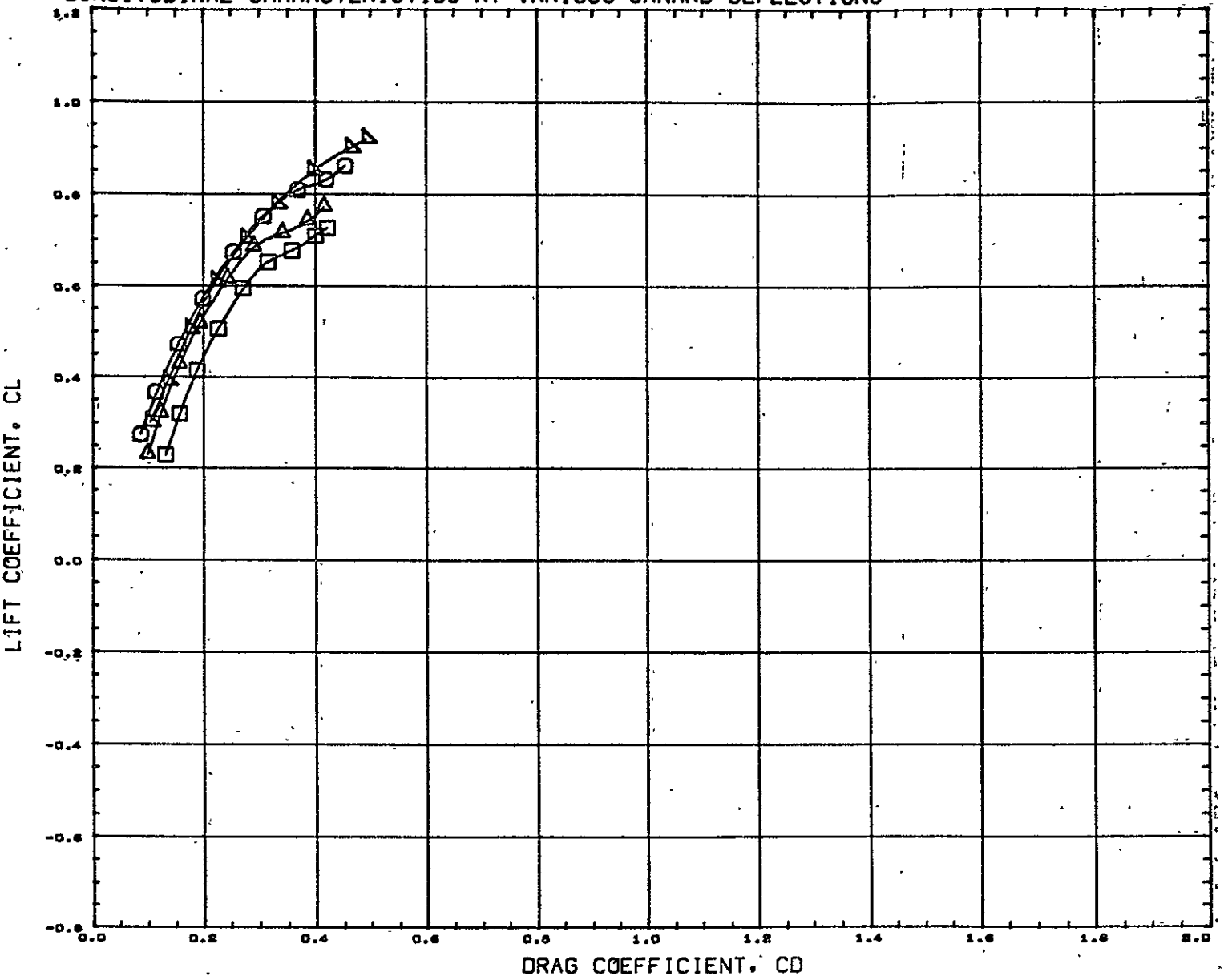


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		M8FC481 GD/C(BOOSTER)B19W14C4AV7	.000	0.000		0.000
(C28009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E26C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

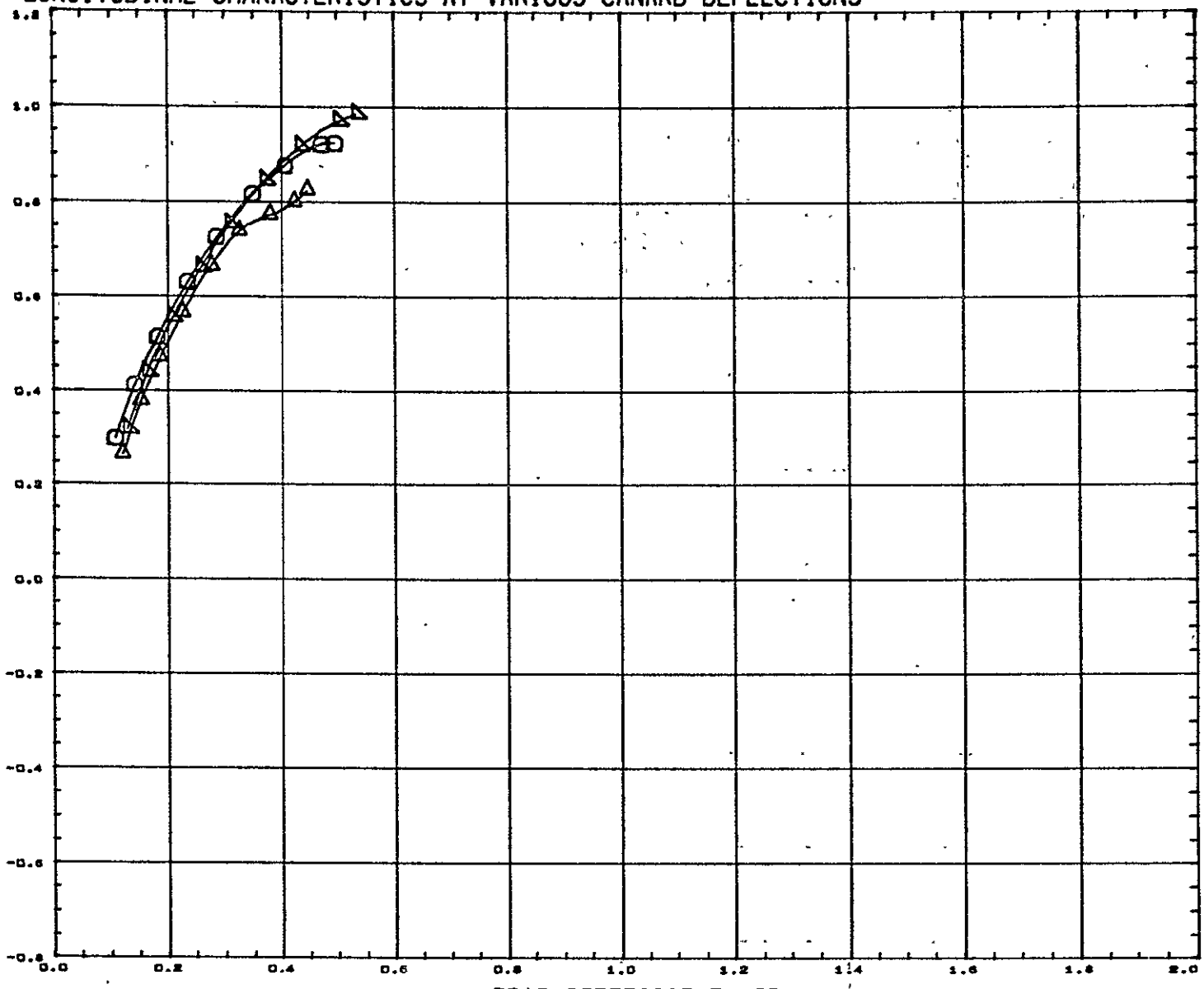


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)	▽	MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 0.900

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

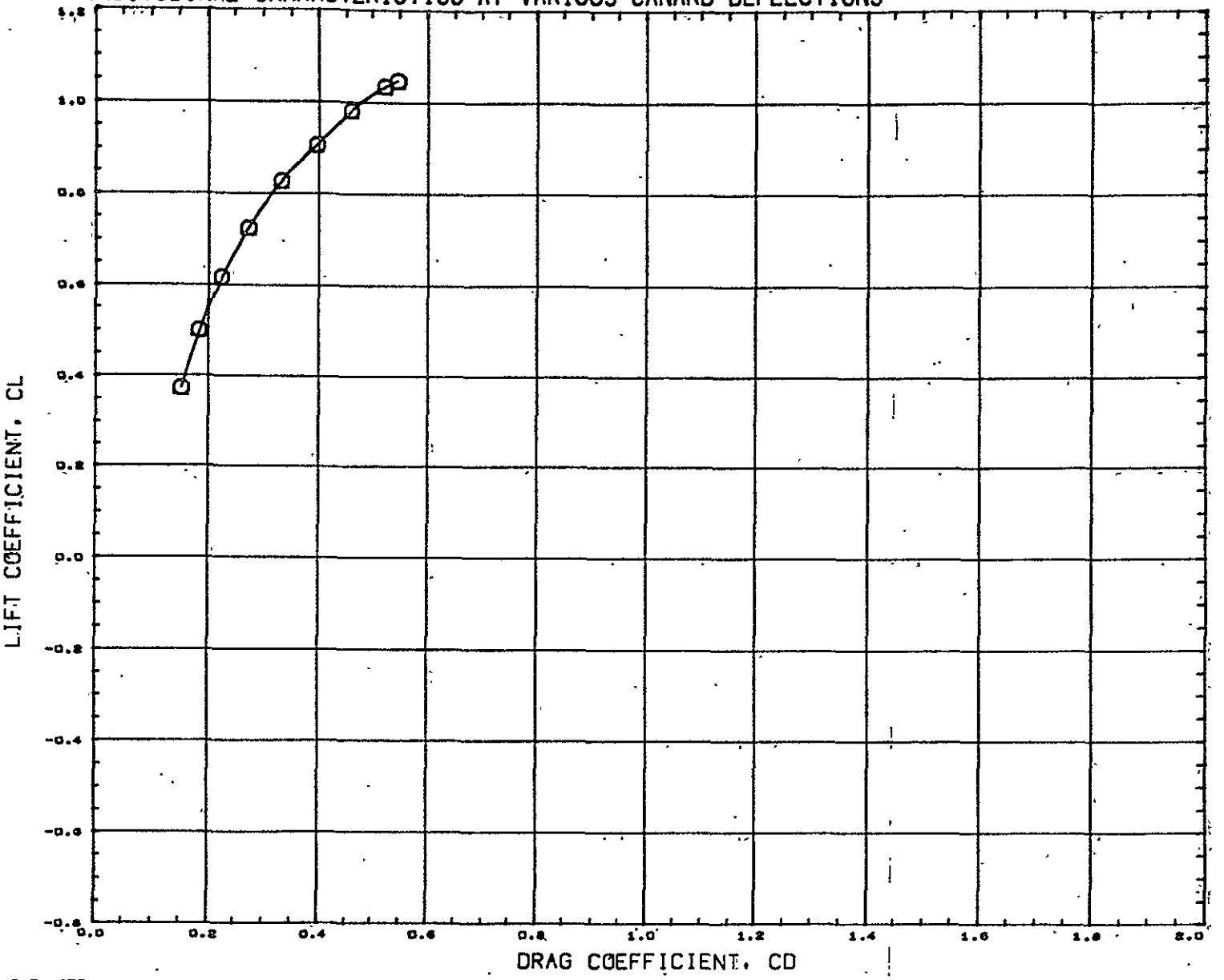


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 461 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 0.954

REFERENCE INFORMATION		
SREF	15.8660	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

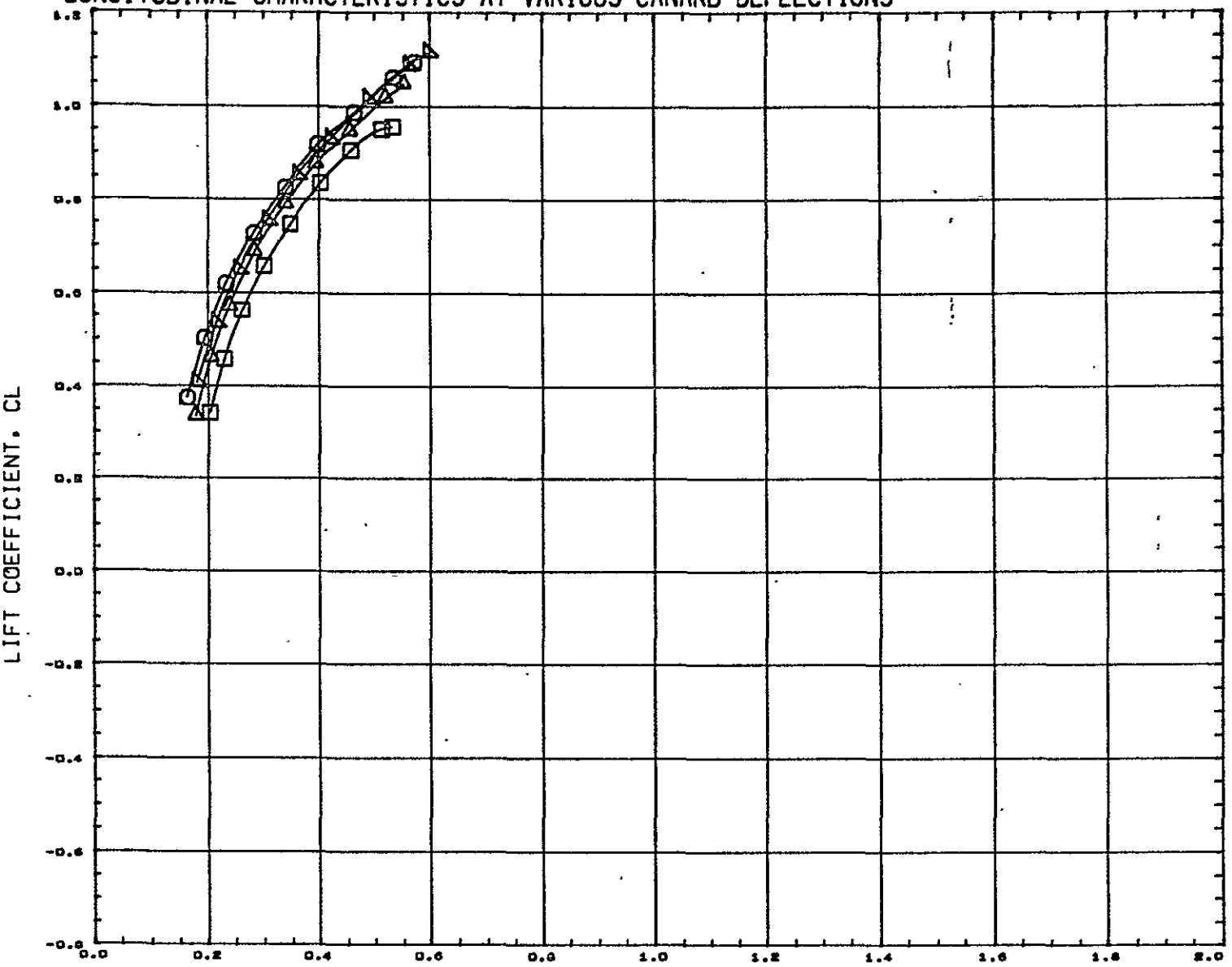


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E26C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

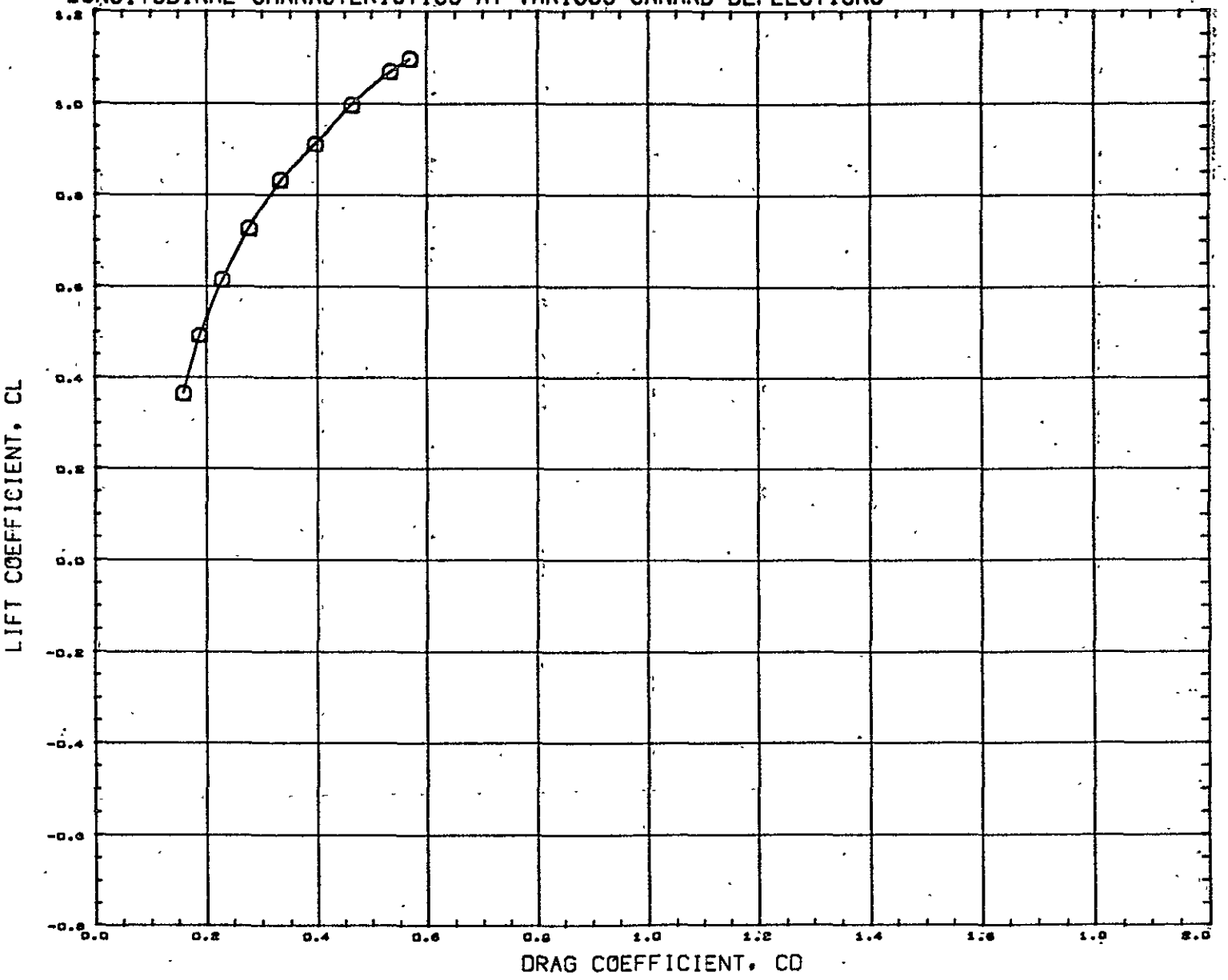


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 1.051

REFERENCE INFORMATION		
SREF	15.8560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

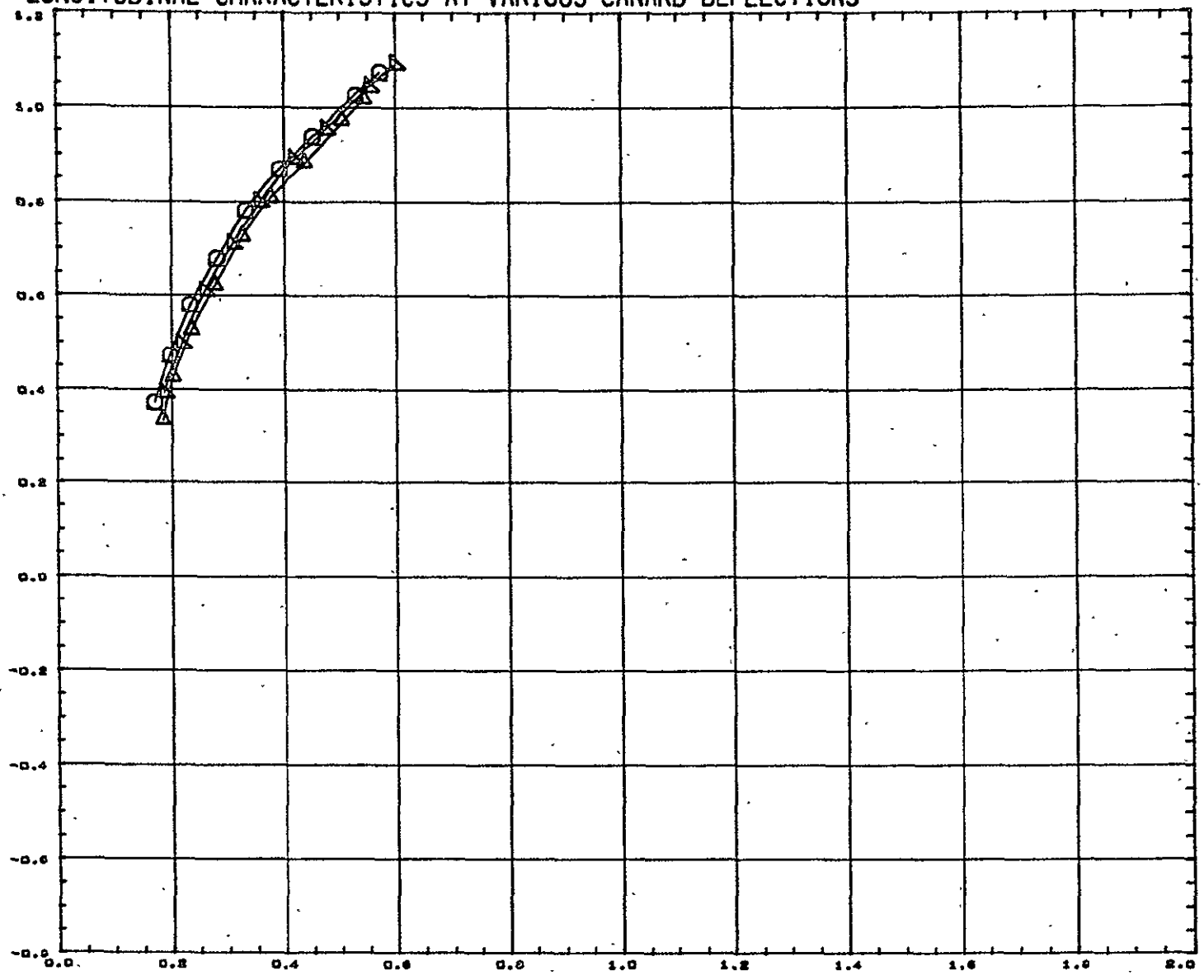


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.105

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

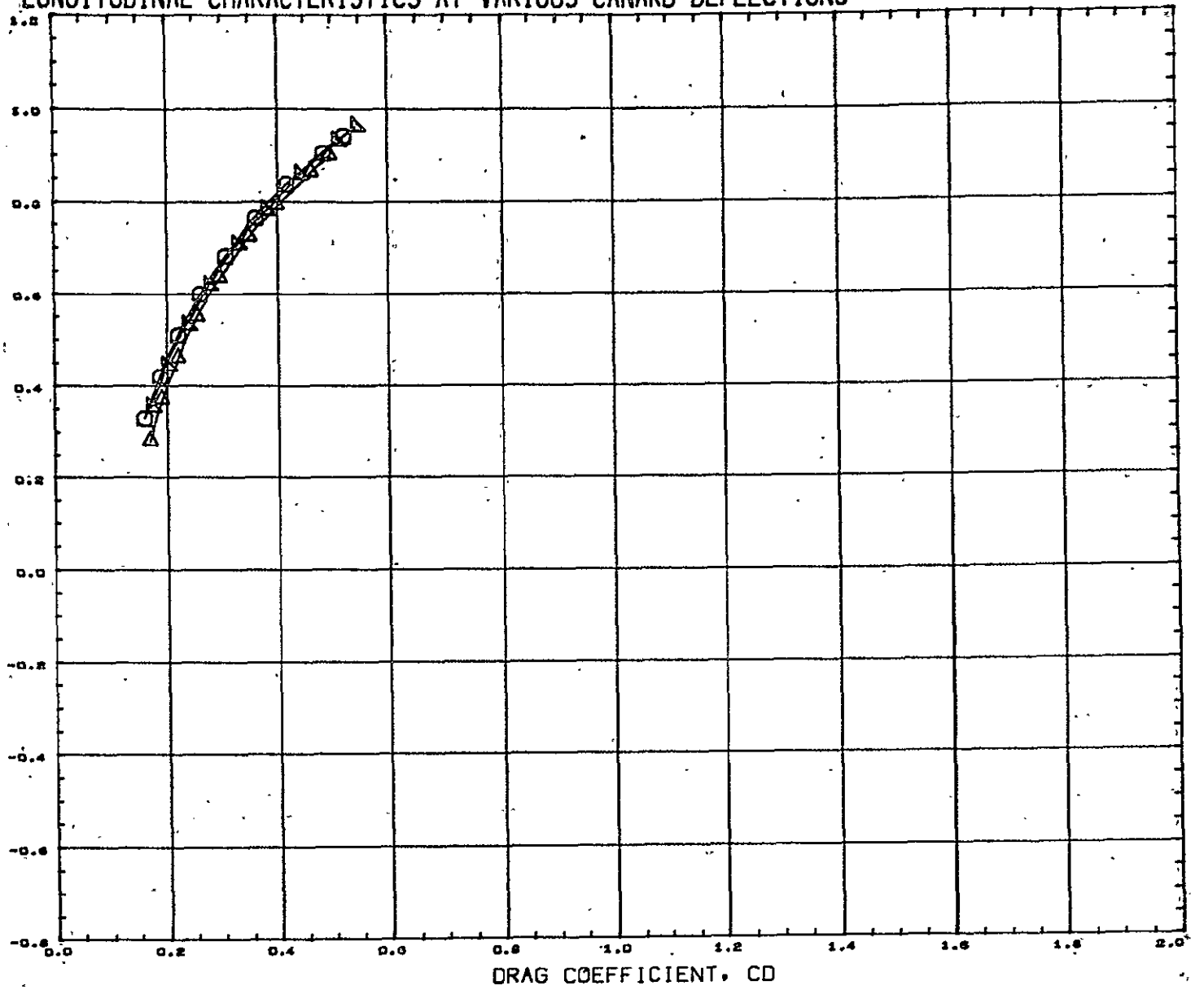


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C20001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C20009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E20C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C20010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C20011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

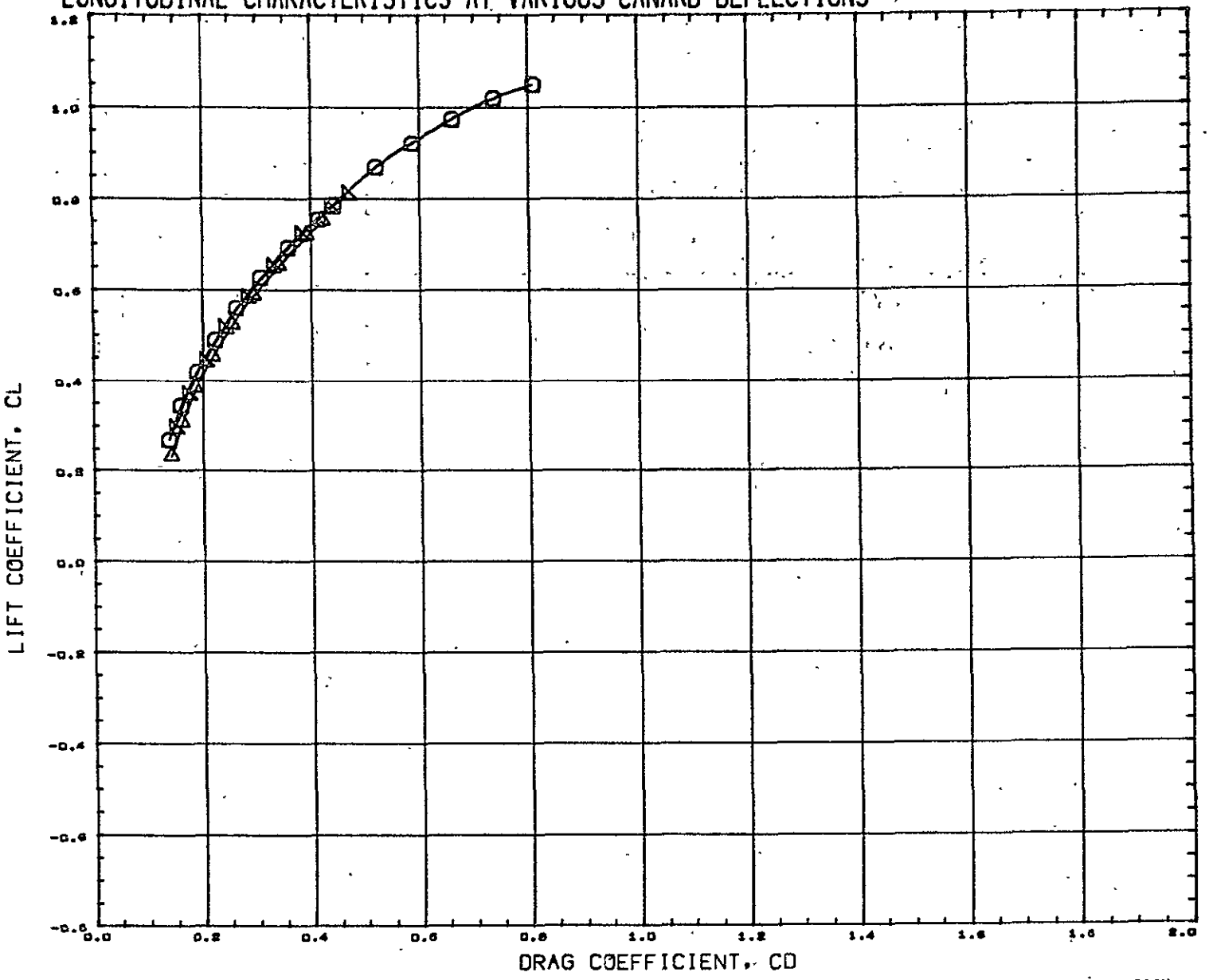


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C26001)		NSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C26009)		NSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E26C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C26010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C26011)		NSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.462

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

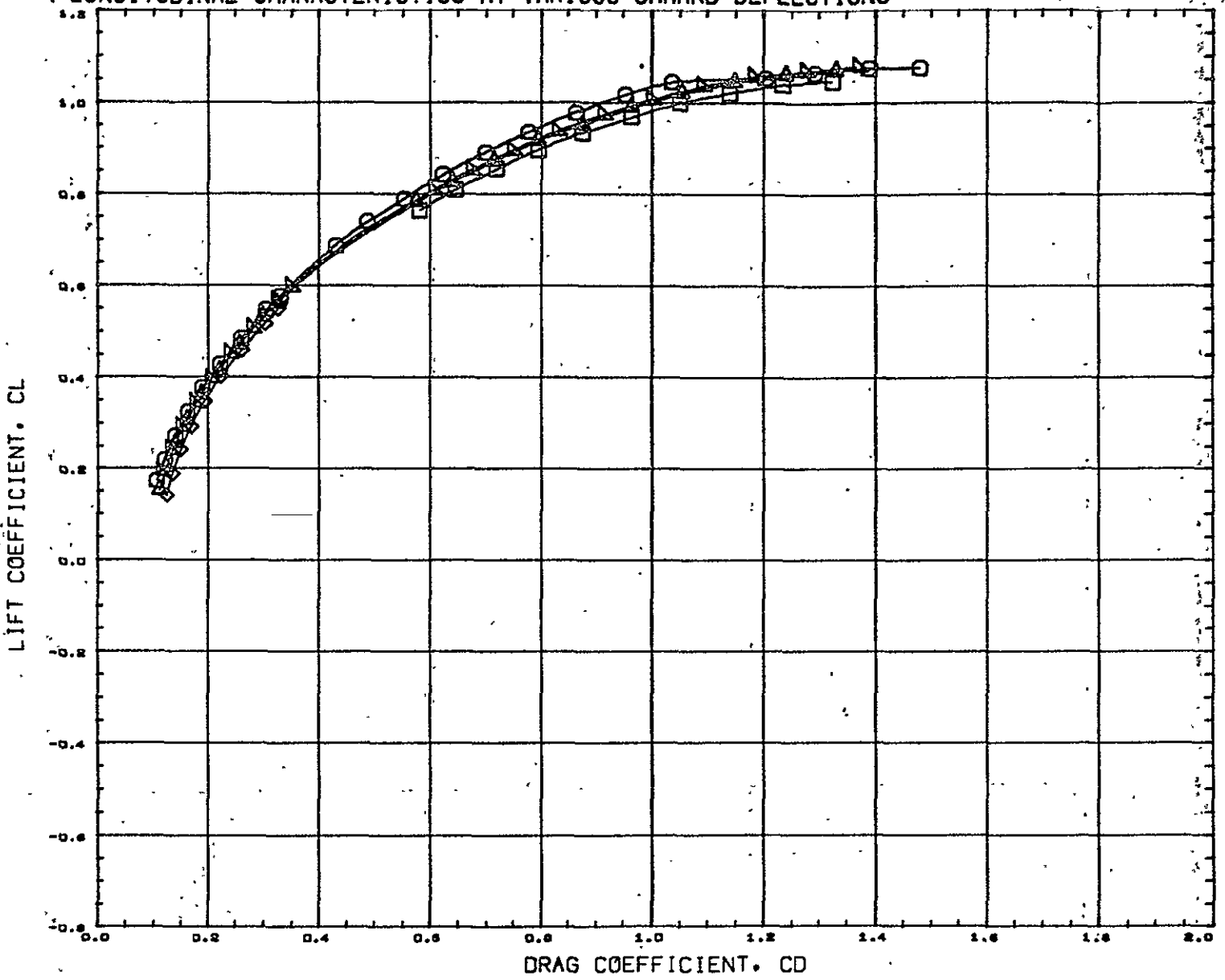


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	0.000		0.000
(C28010)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)		MSFC 461 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

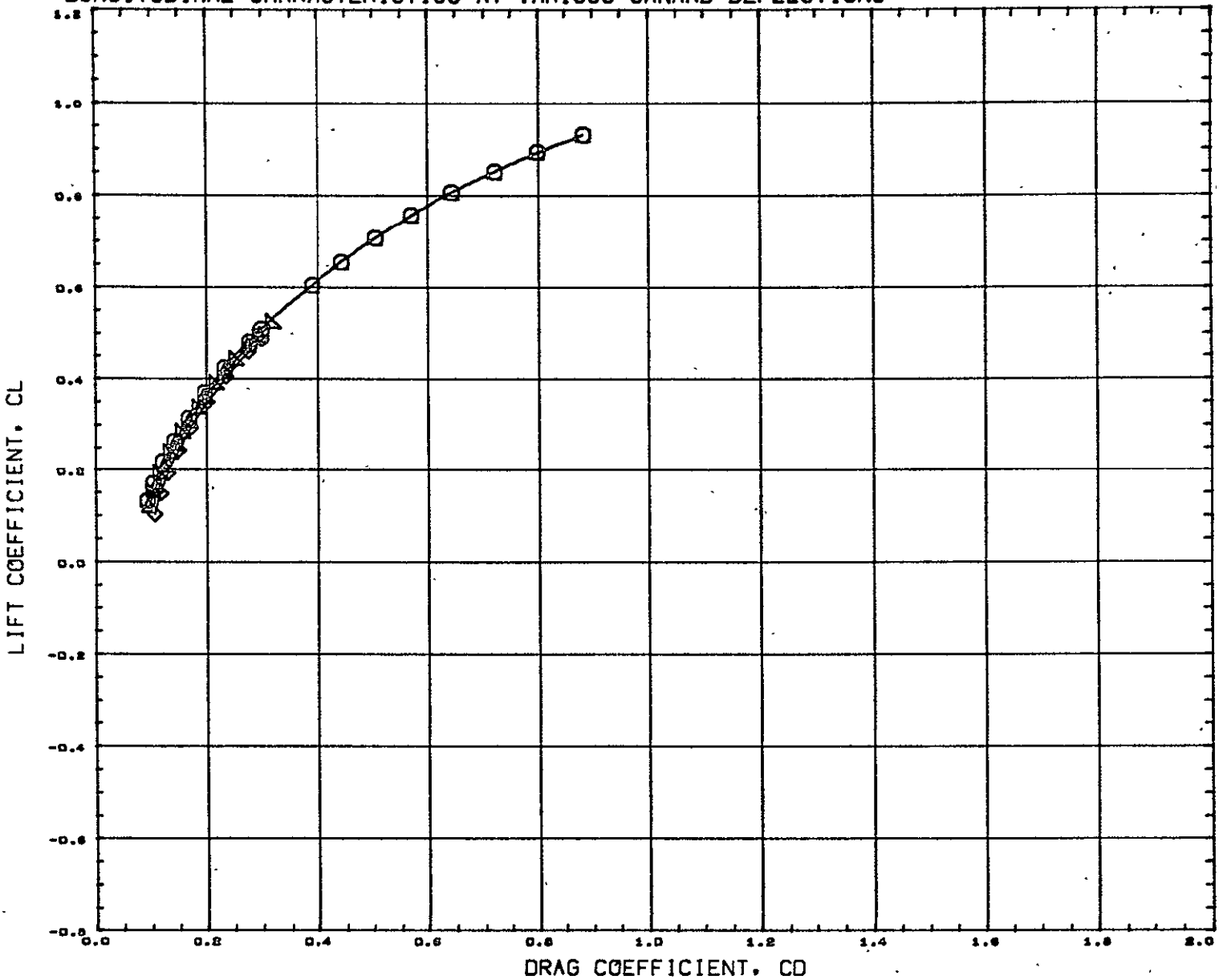


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

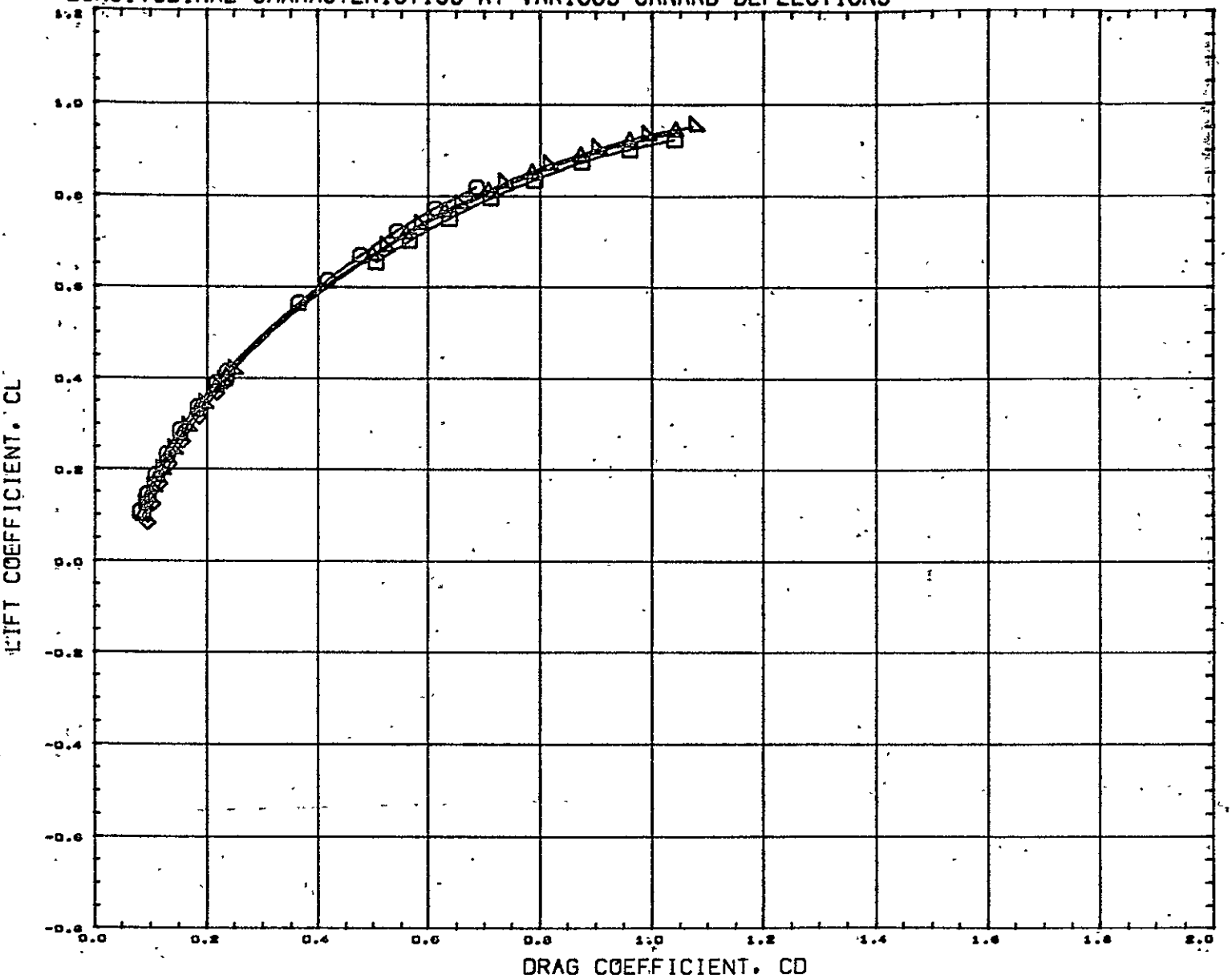


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(E28C50)	◇	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-60.000	0.000		0.000
(C28011)	▽	MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

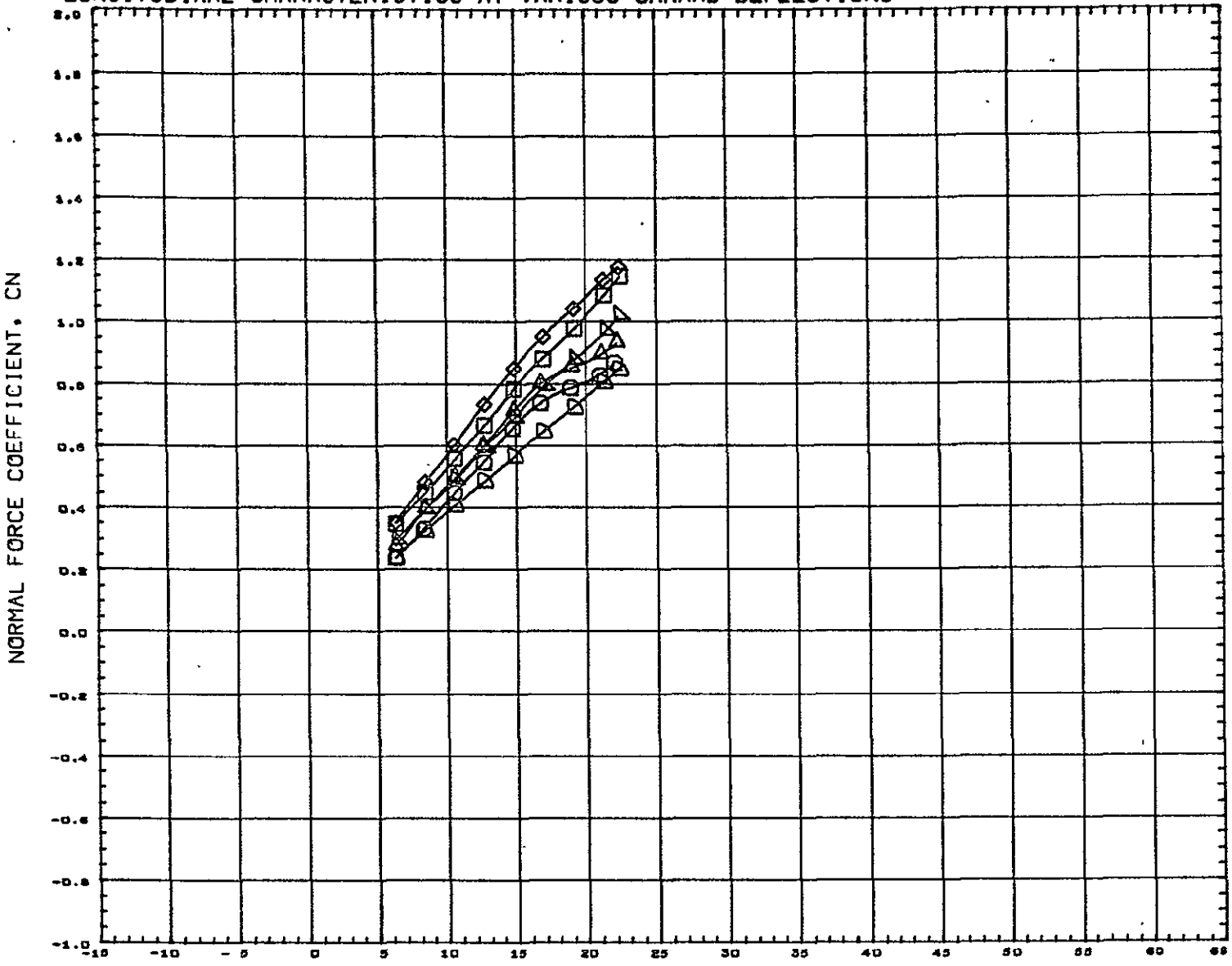


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	RUDDER	BETA
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000		0.000
(C28009)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-30.000	0.000		0.000
(C28C50)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	-45.000	0.000		0.000
(C28010)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	-60.000	0.000		0.000
(C28011)		MSFC 481 GD/C BOOSTER B19W14C4AB7	15.000	0.000		0.000

MACH 4.960

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

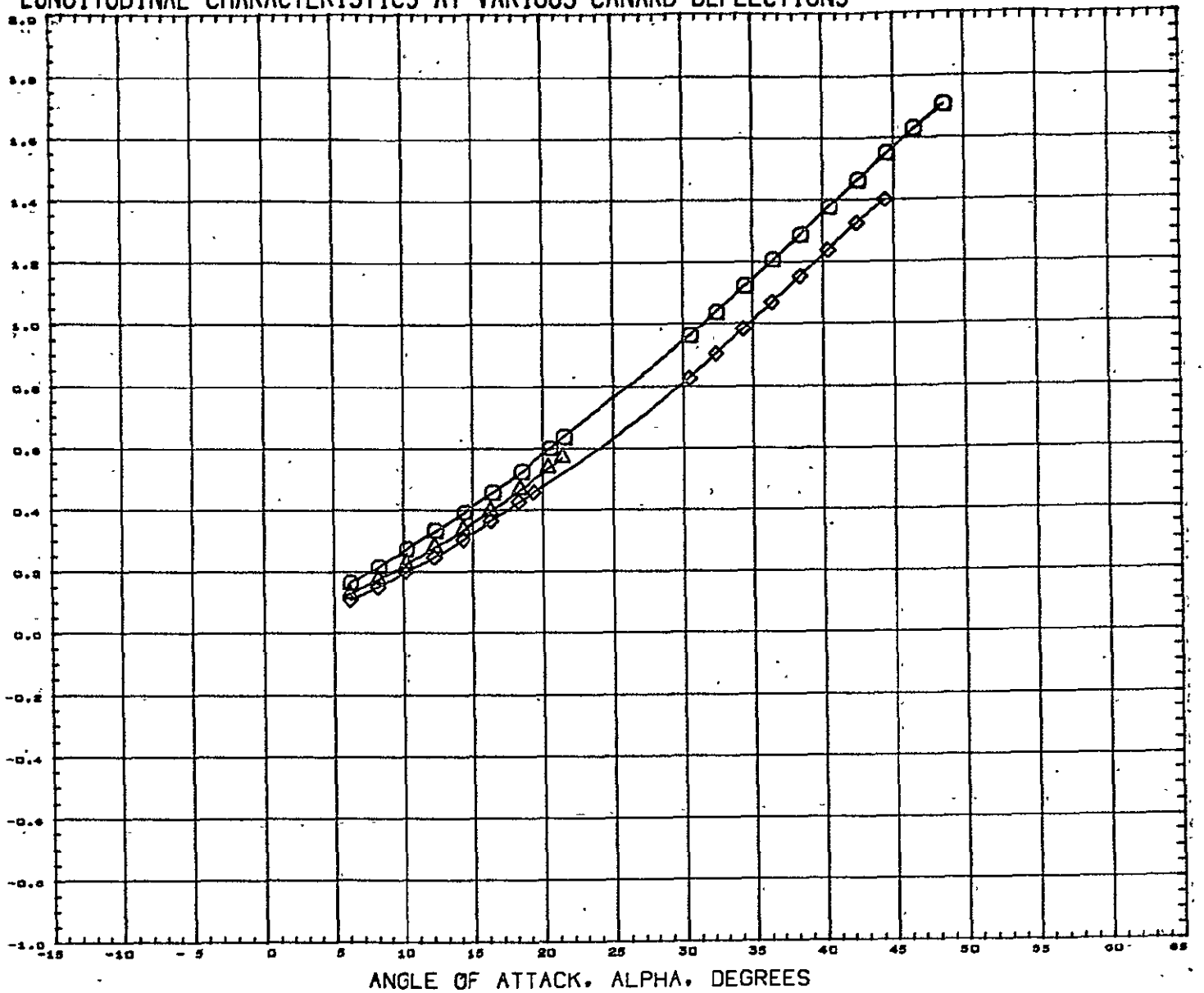
LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.902	BETA	0.000	DEL	0.000
△	0.955	DER	0.000	DCL	- 30.000
◇	1.054	DCR	30.000	ELEVON	0.000
□	1.200	CANARD	- 30.000	AILRON	0.000
▽	1.464				
D	1.962	DATA HIST. CODE	MVR#E#G		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

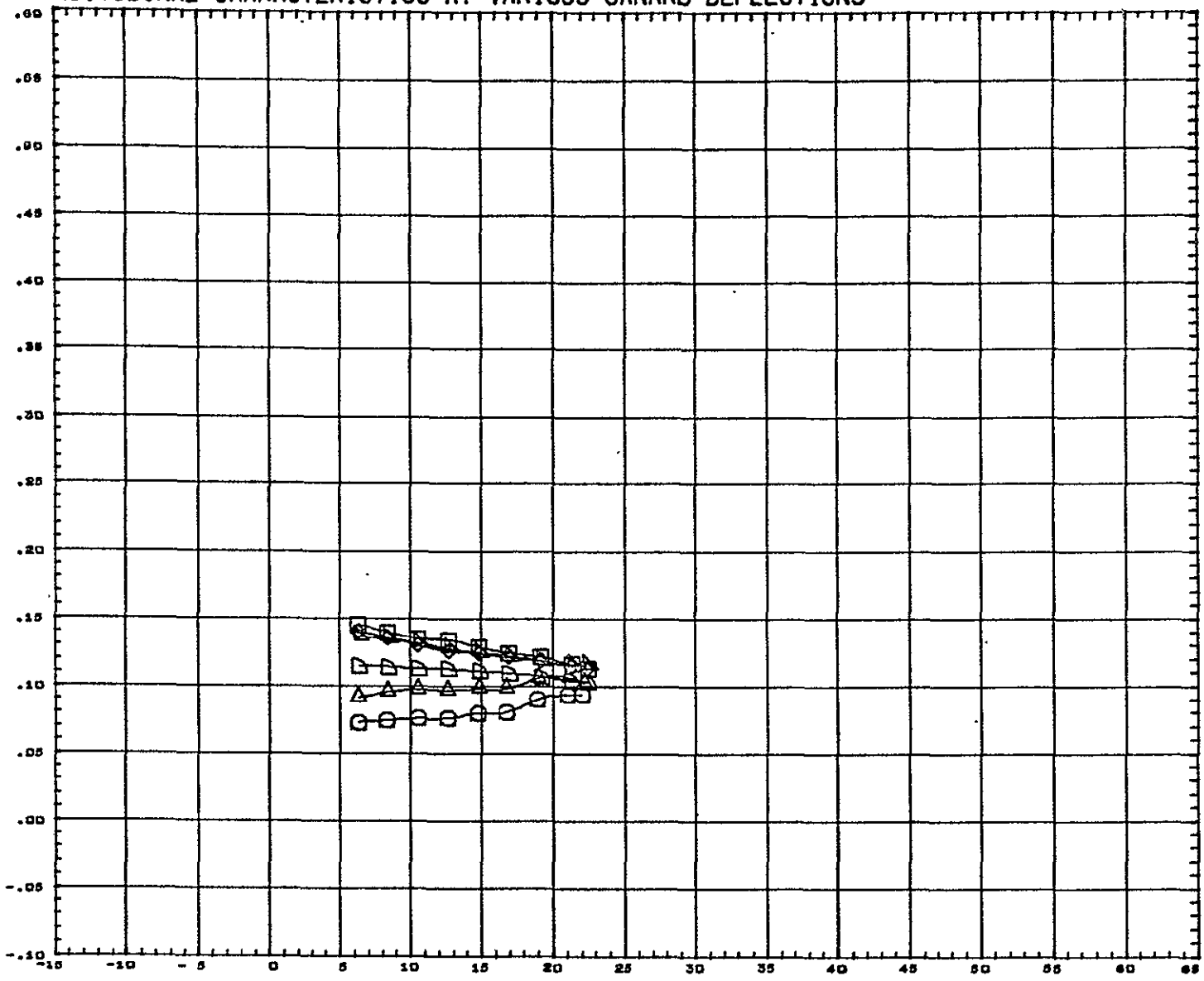


SYMBOL	MACH	PARAMETRIC VALUES			
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	- 30.000
◇	4.960	DCR	30.000	ELEVON	0.000
		CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*E*G

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH	PARAMETRIC VALUES			
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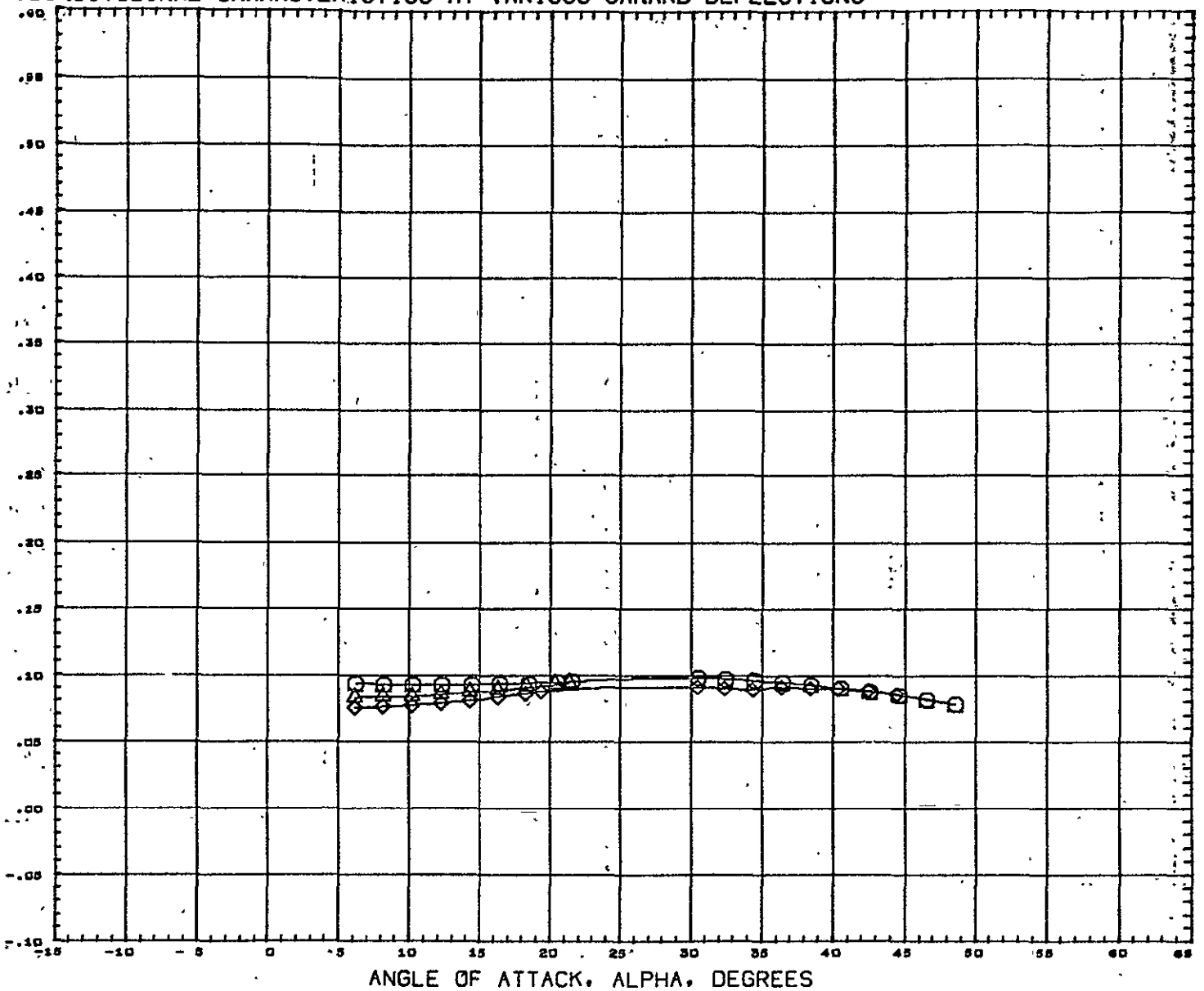
△	0.955	DER	0.000	DCL	- 30.000
◇	1.054	DCR	30.000	ELEVON	0.000
□	1.200	CANARD	- 30.000	AILRON	0.000
◸	1.464				
▷	1.962	DATA HIST. CODE	MVR*E*G		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

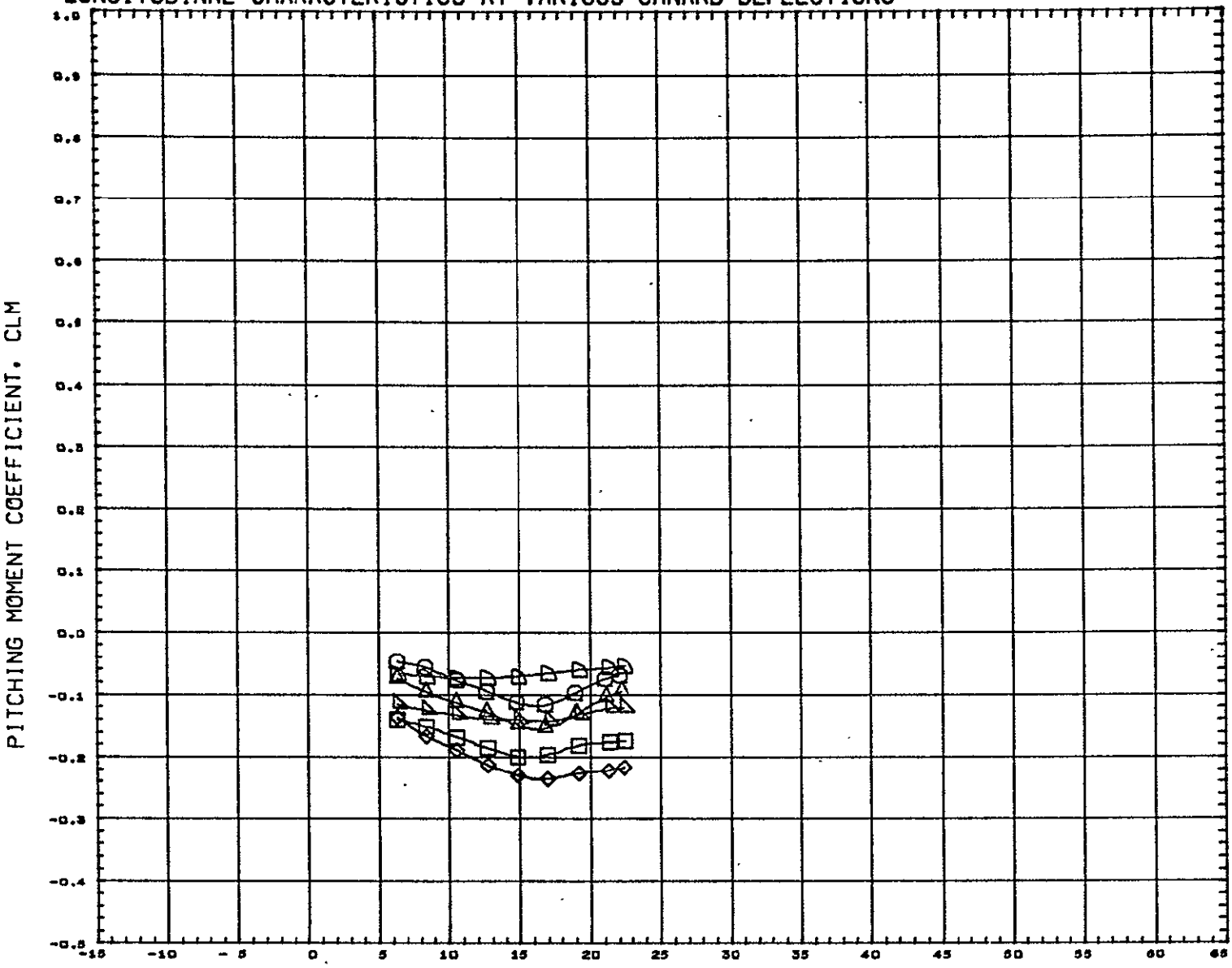


SYMBOL	MACH	PARAMETRIC VALUES			
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	- 30.000
◇	4.960	DCR	30.000	ELEVON	0.000
		CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*E*G

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

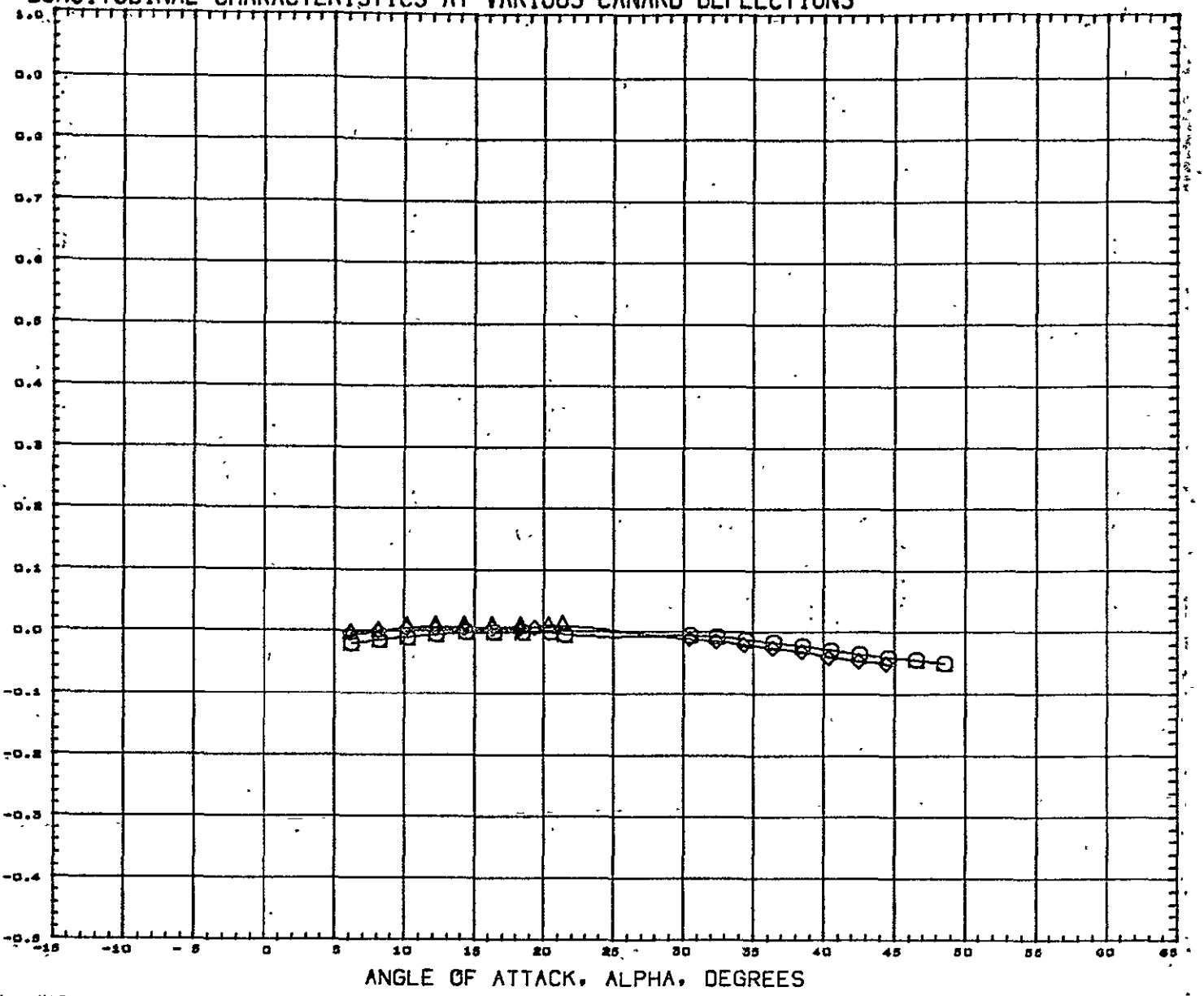
LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.902	BETA	0.000	DEL	0.000
△	0.955	DER	0.000	DCL	- 30.000
◇	1.054	DCR	30.000	ELEVON	0.000
□	1.200	CANARD	- 30.000	AILRON	0.000
▽	1.464				
⬠	1.962	DATA HIST. CODE		MVR*E*G	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH
○	2.990
△	4.000
◇	4.960

PARAMETRIC VALUES

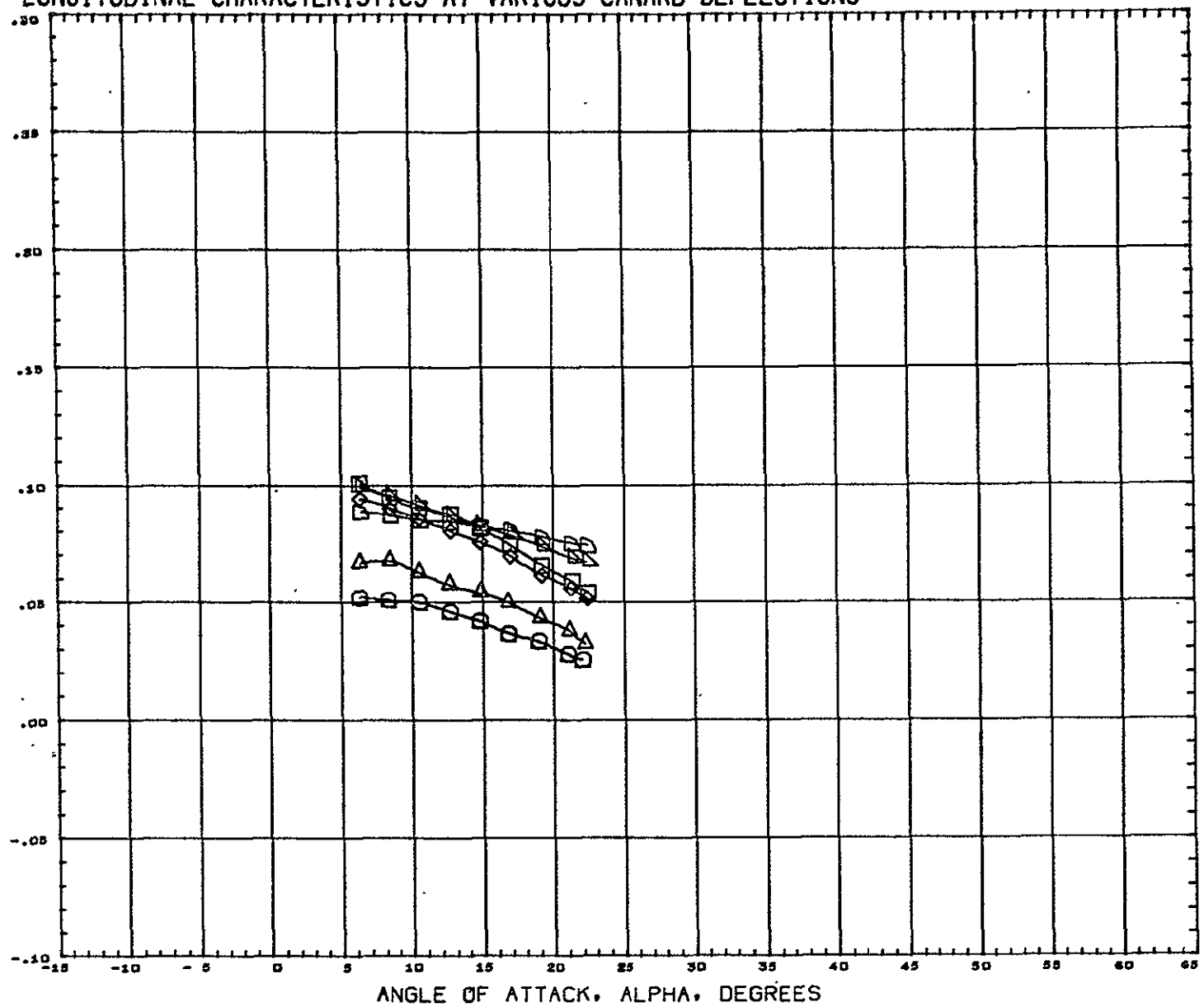
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE HVR*E*G

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

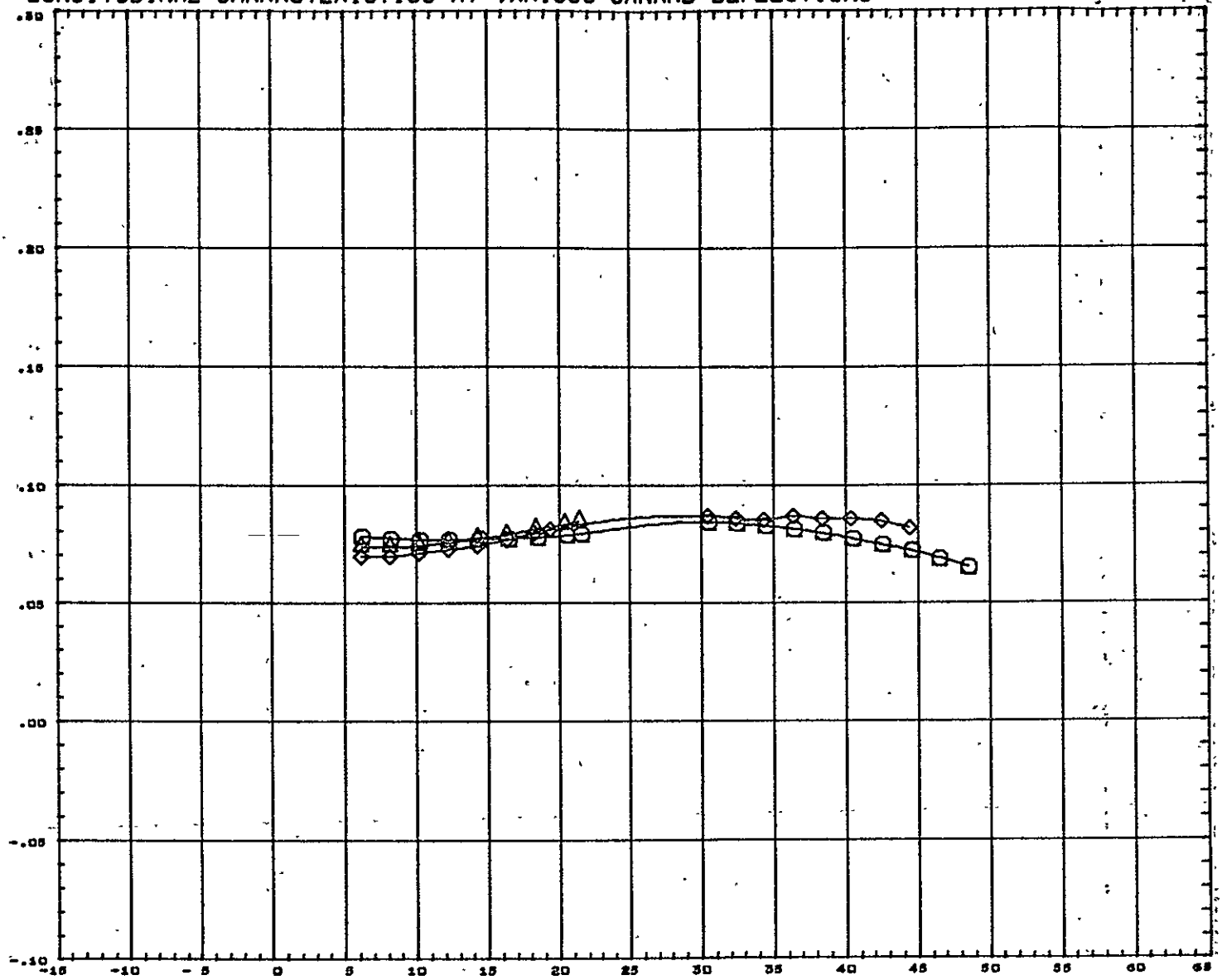
LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.902	BETA	0.000	DEL	0.000
△	0.959	DER	0.000	DCL	- 30.000
◇	1.054	DCR	30.000	ELEVON	0.000
□	1.200	CANARD	- 30.000	AILRON	0.000
⊘	1.464				
D	1.962	DATA HIST. CODE		MVR*E*G	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH
○	2.990
△	4.000
◇	4.960

PARAMETRIC VALUES

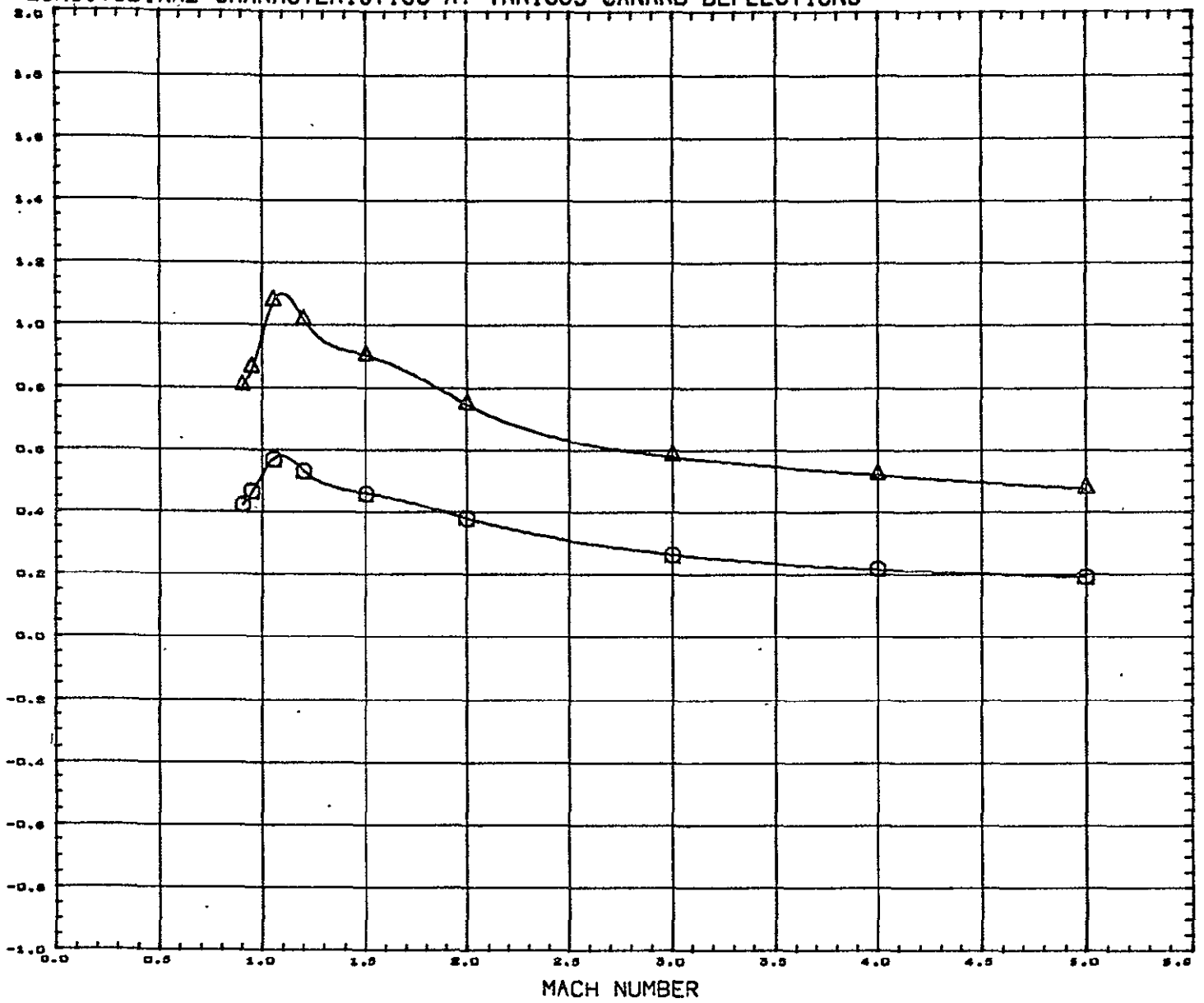
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*E*G

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
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△	20.000

PARAMETRIC VALUES

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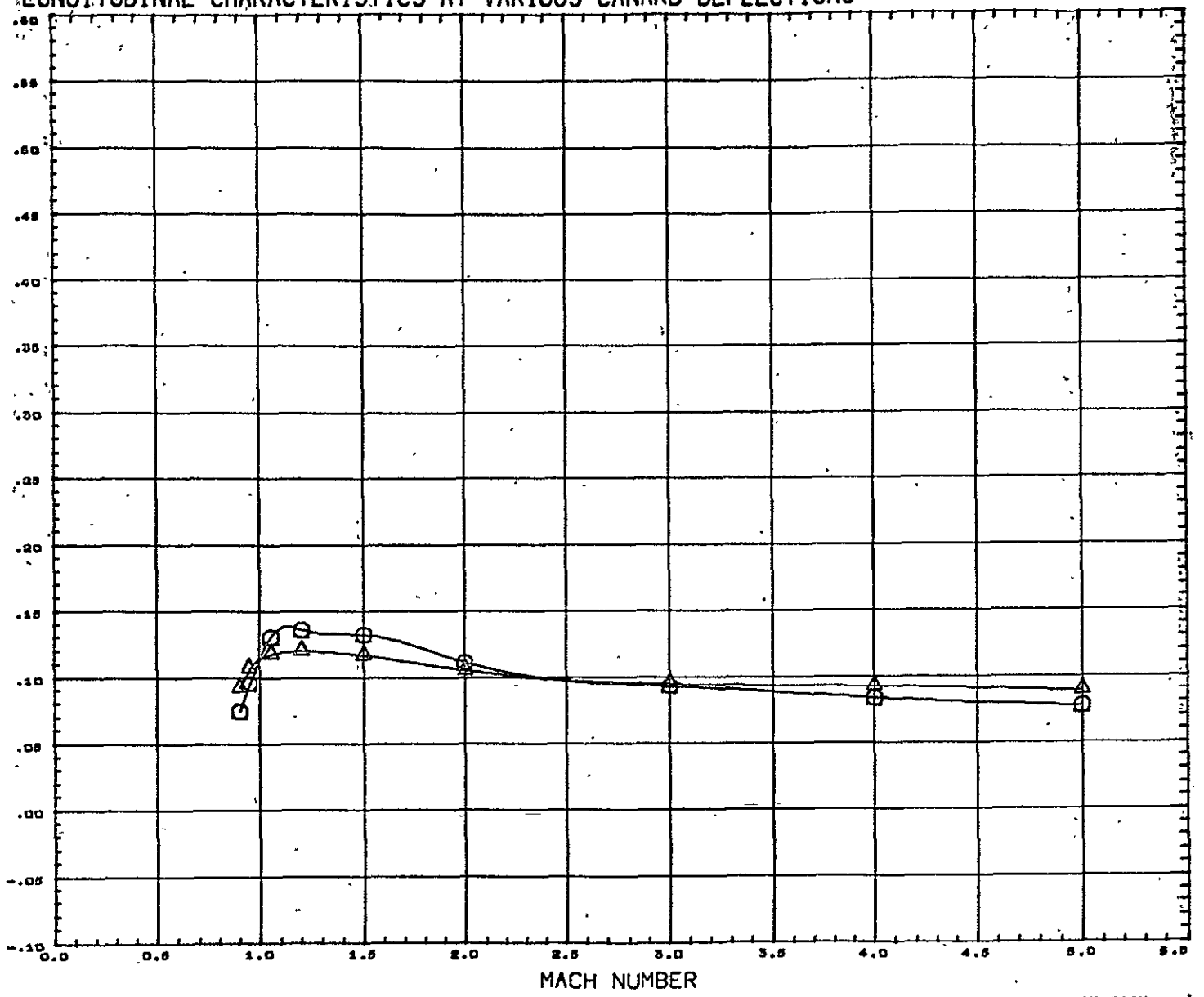
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
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△	20.000

PARAMETRIC VALUES

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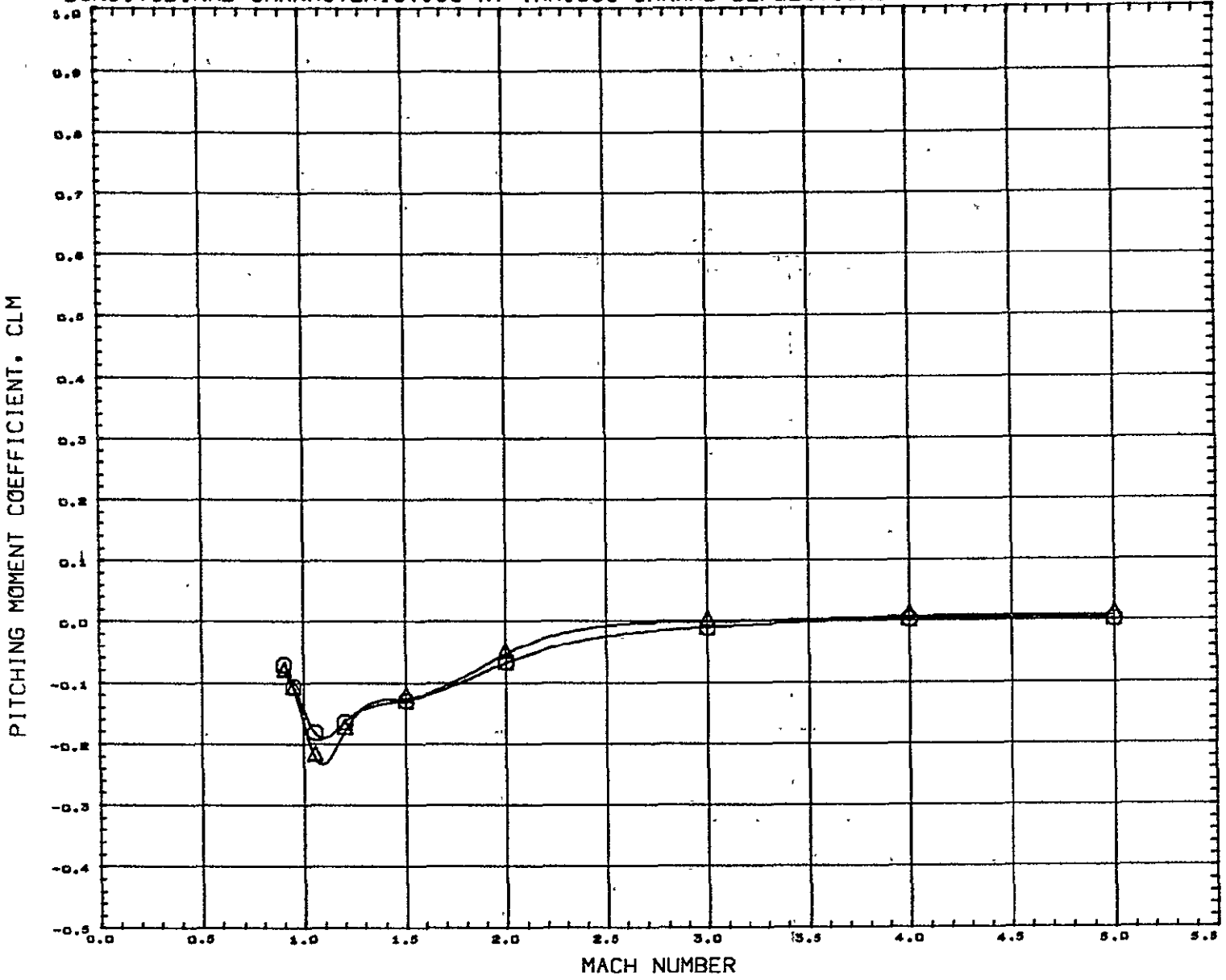
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

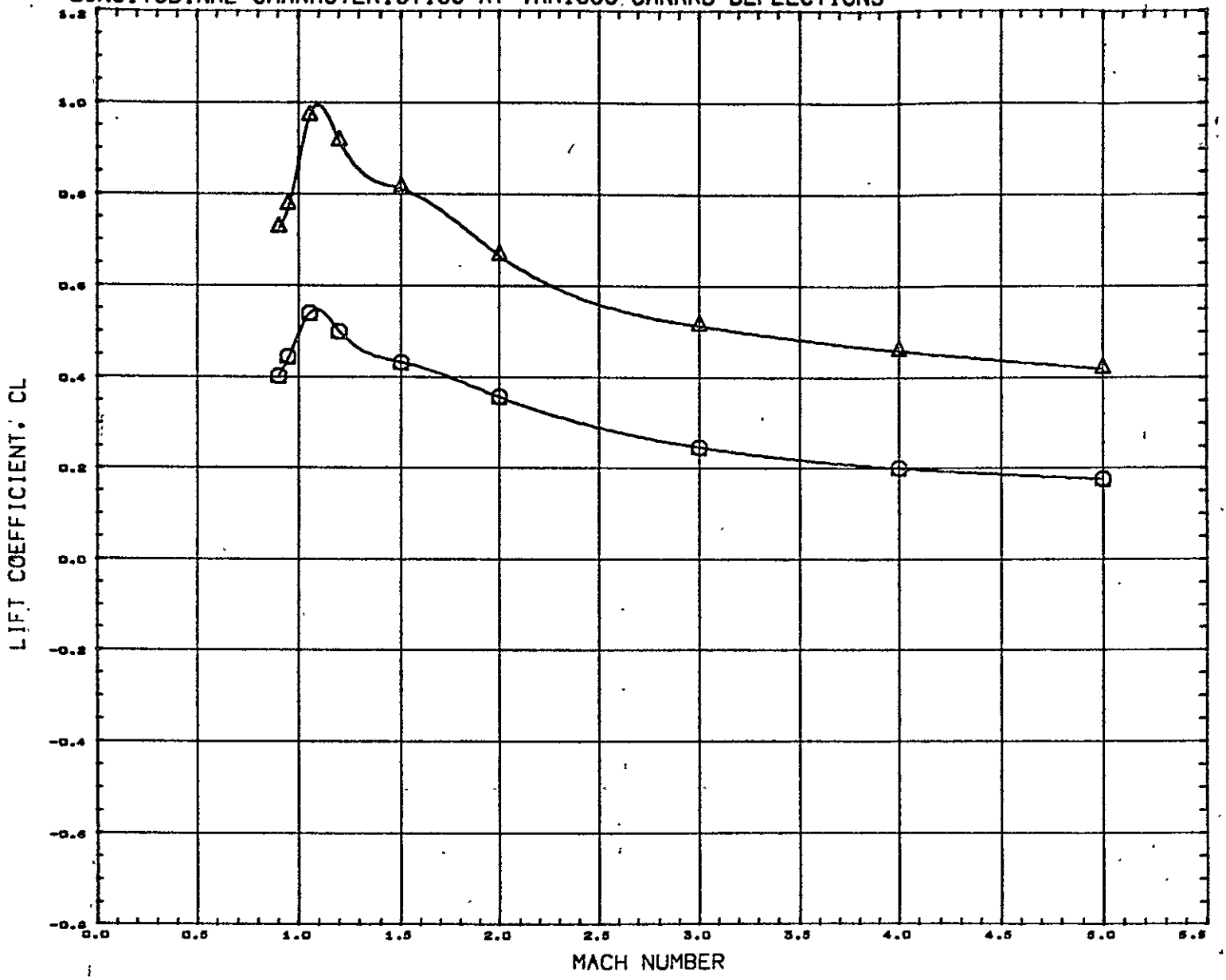
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE HVR*E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
△	10.000
○	20.000

PARAMETRIC VALUES

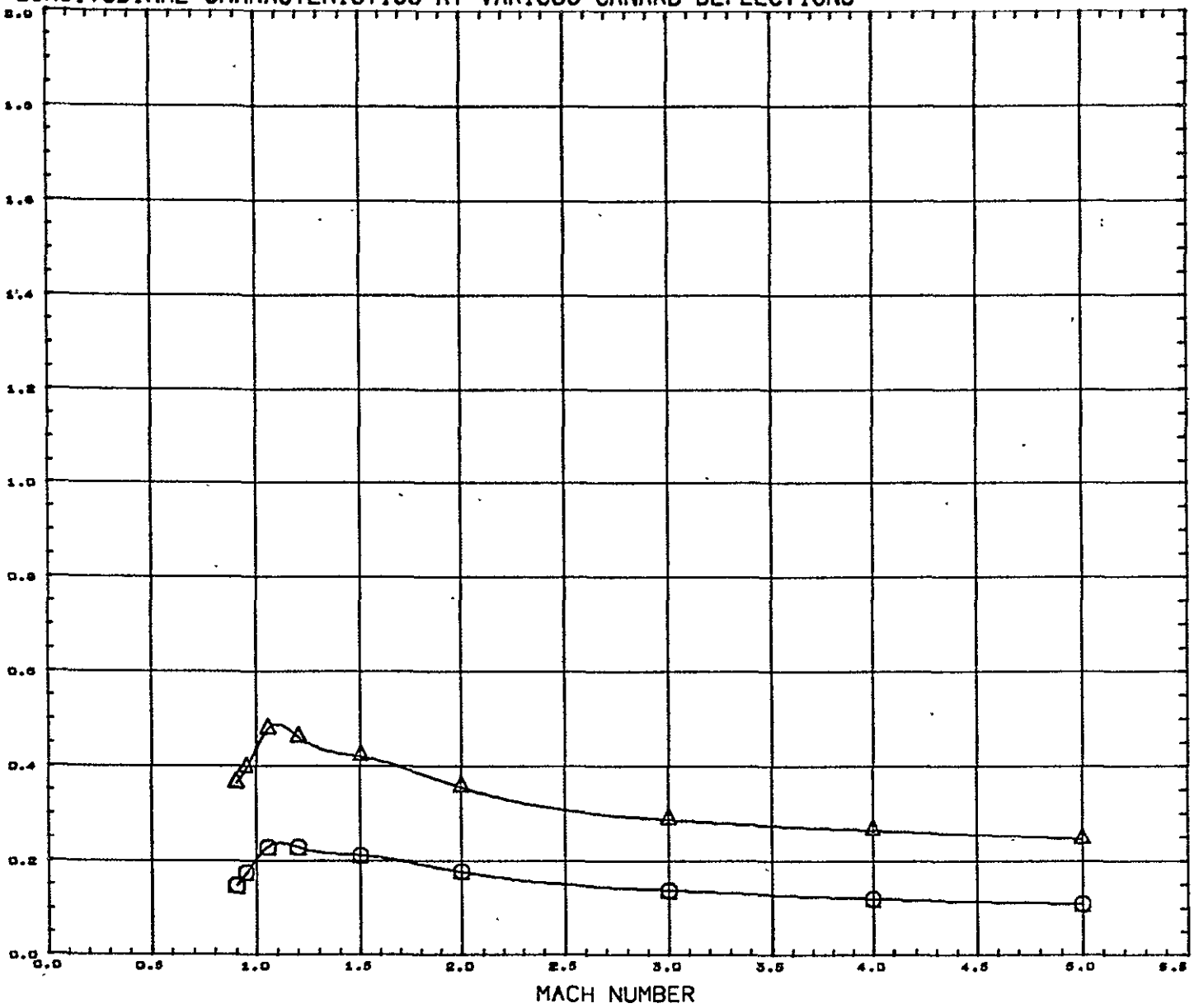
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
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△	20.000

PARAMETRIC VALUES

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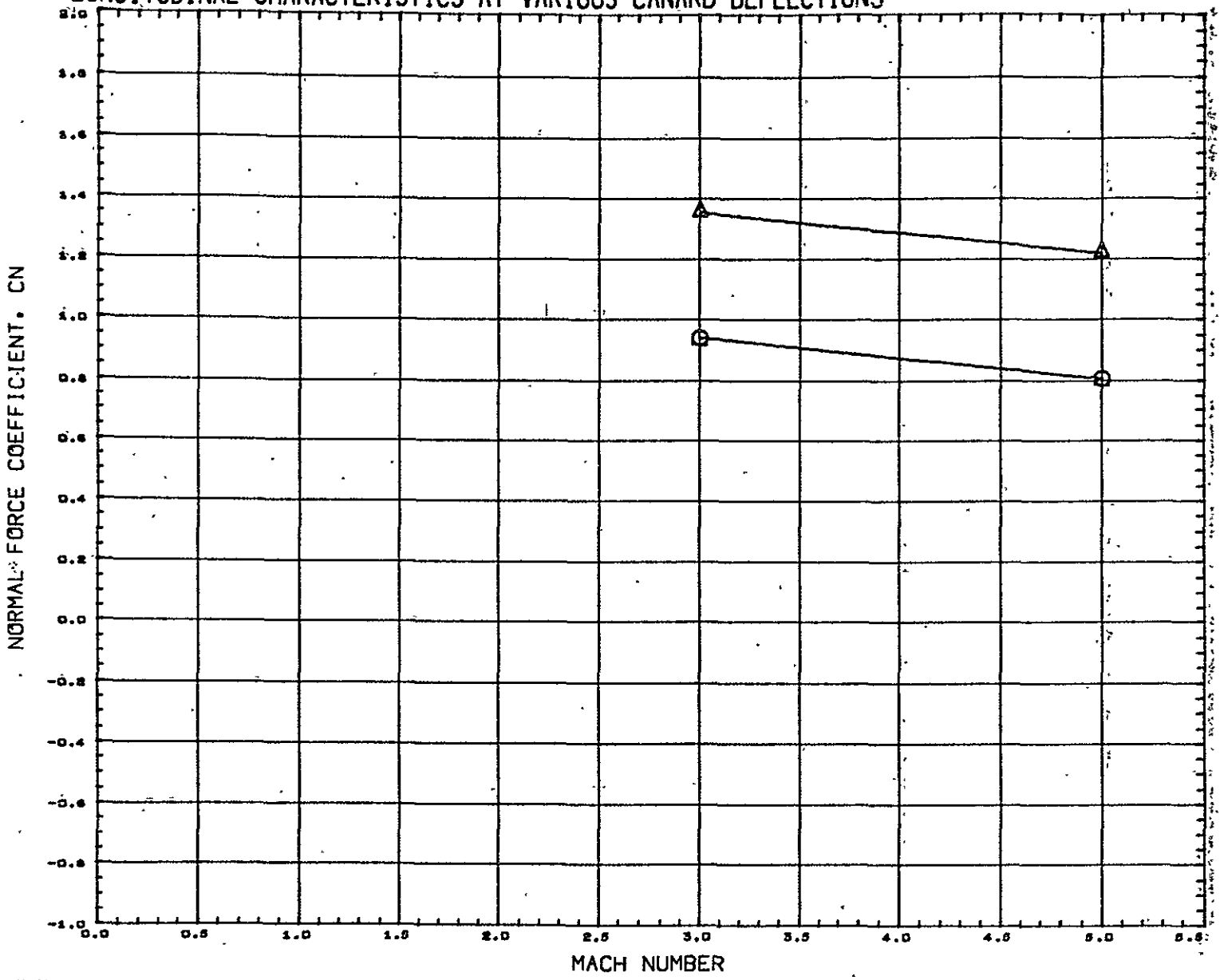
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE HVR#EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

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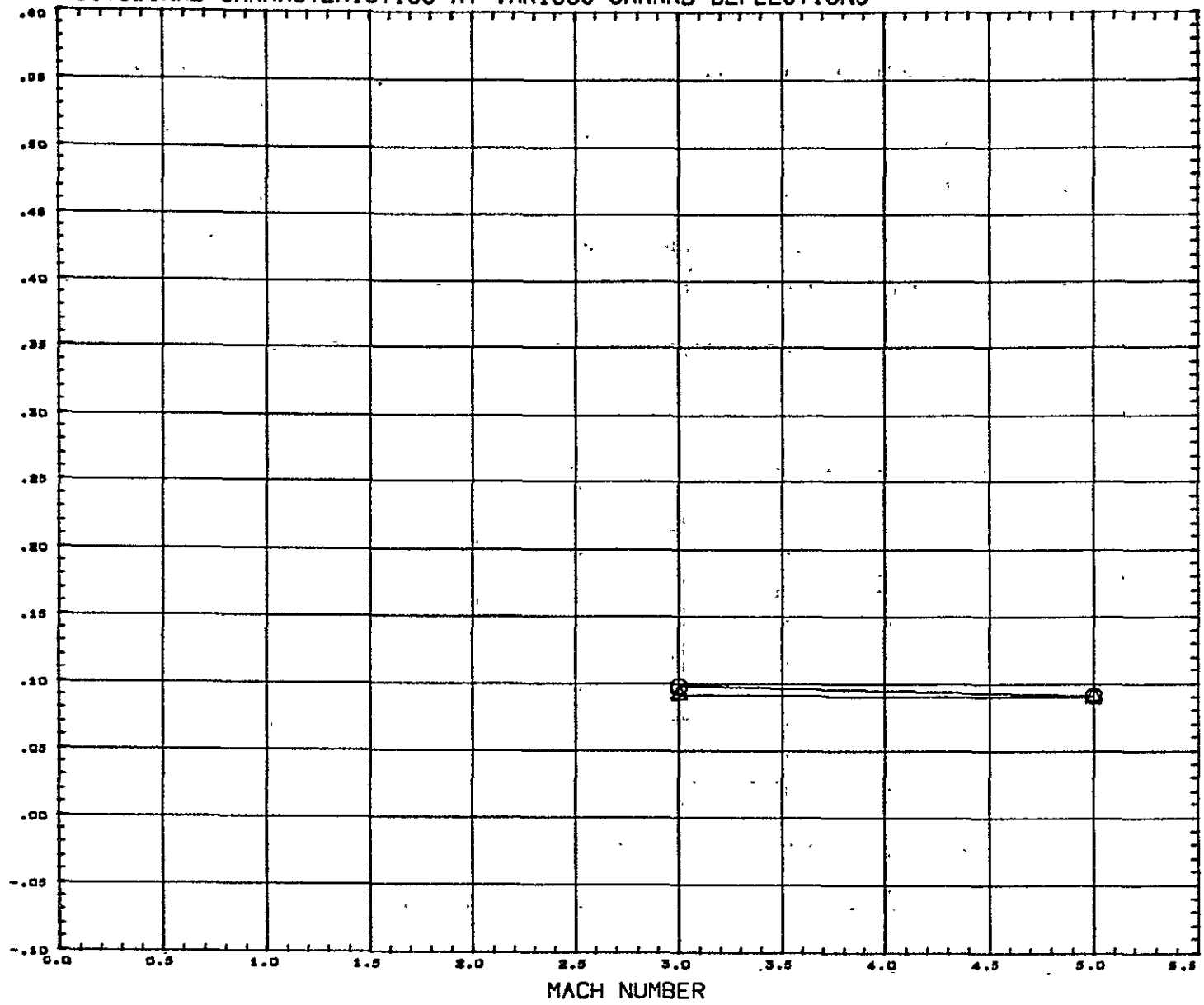
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE HVR#EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
◇	30.000
△	40.000

PARAMETRIC VALUES

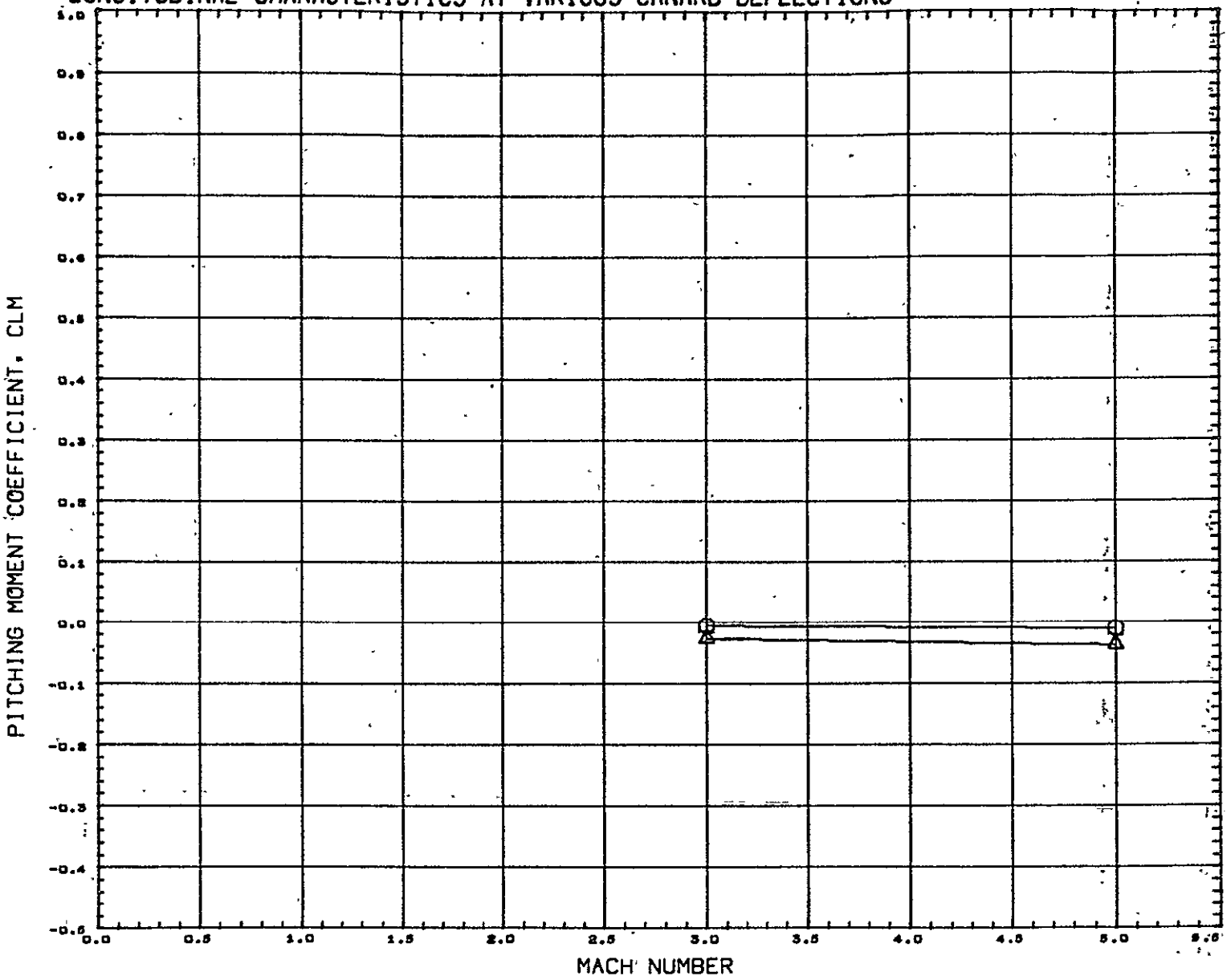
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE HVR*E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0000	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

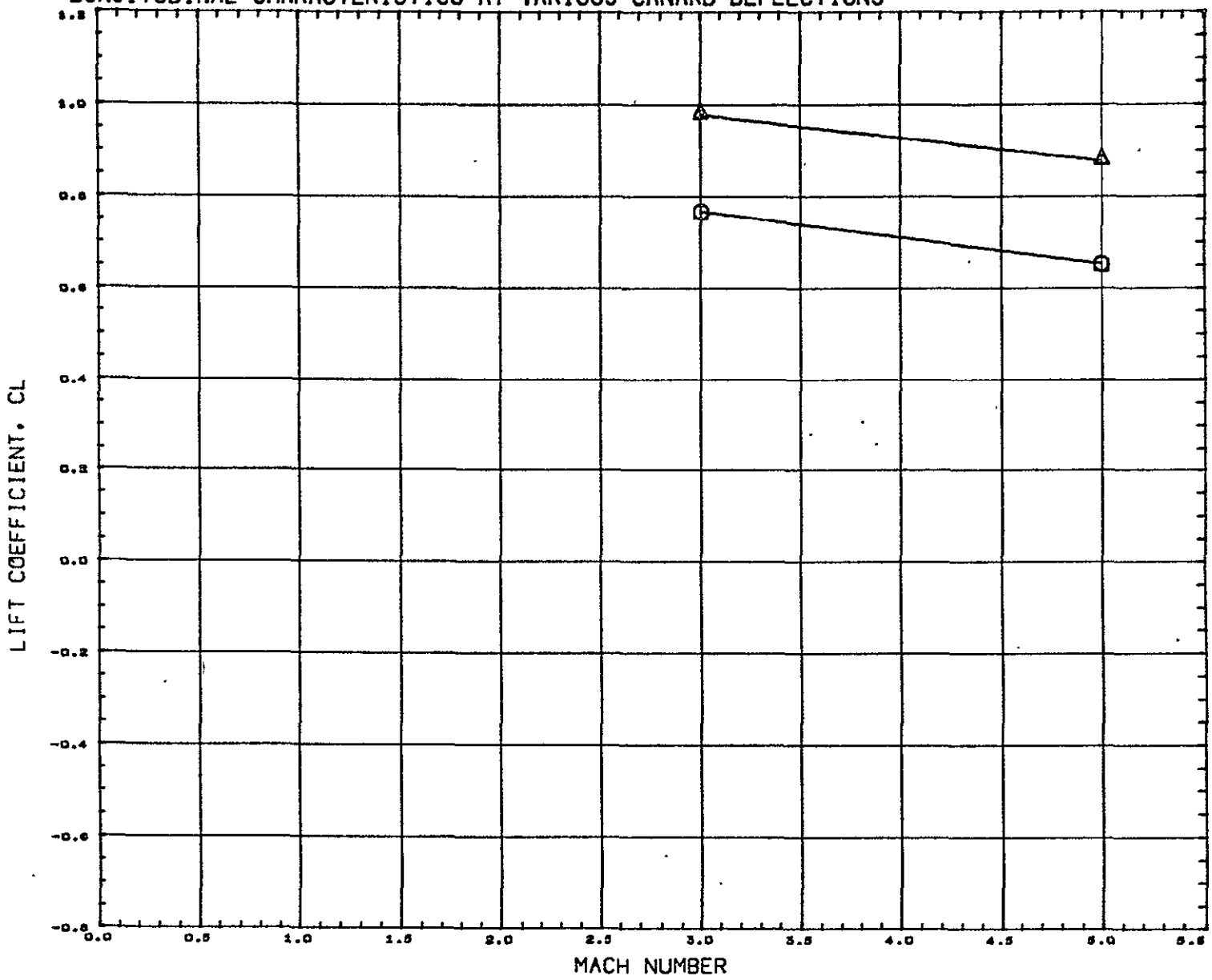
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE HVR4E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

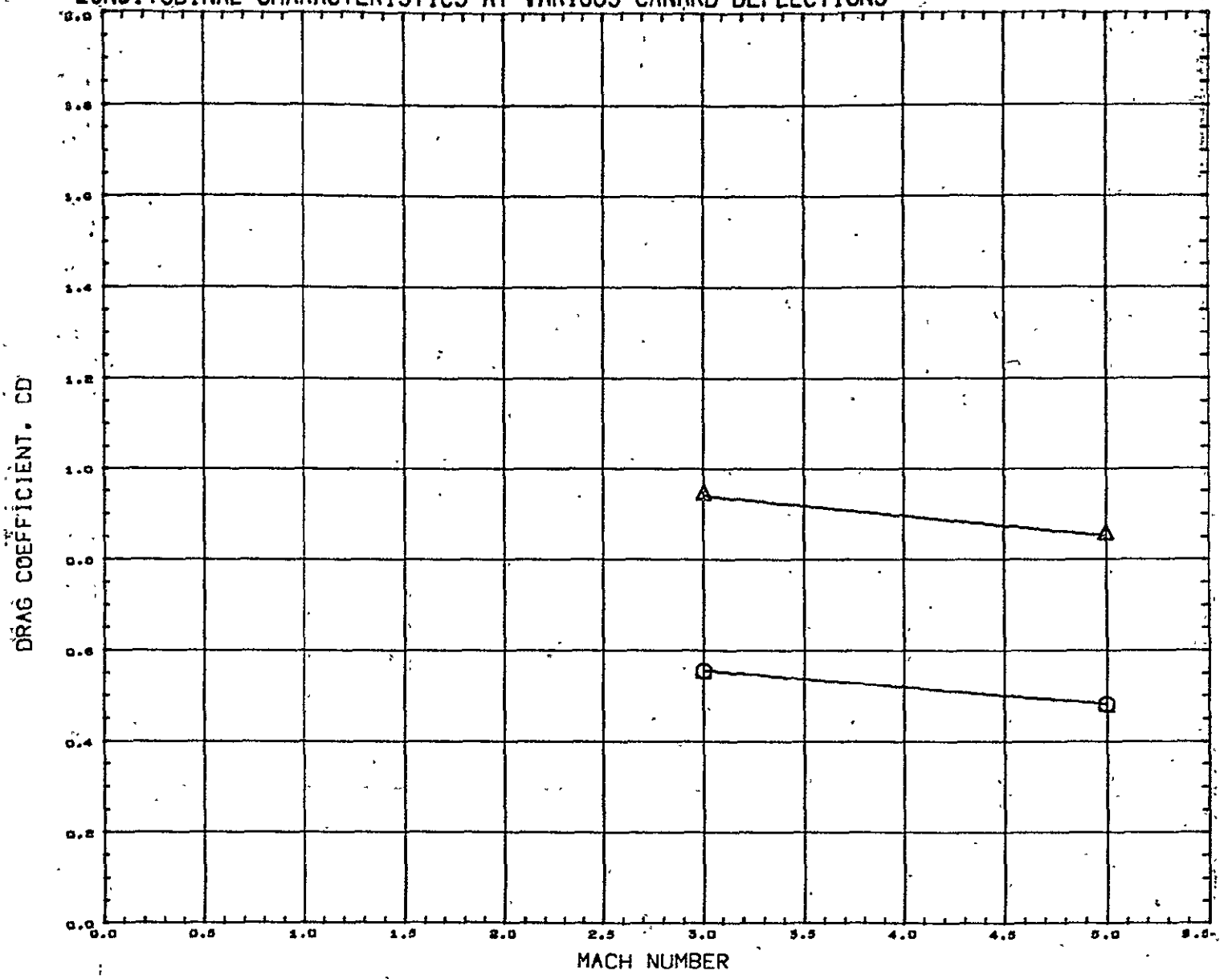
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
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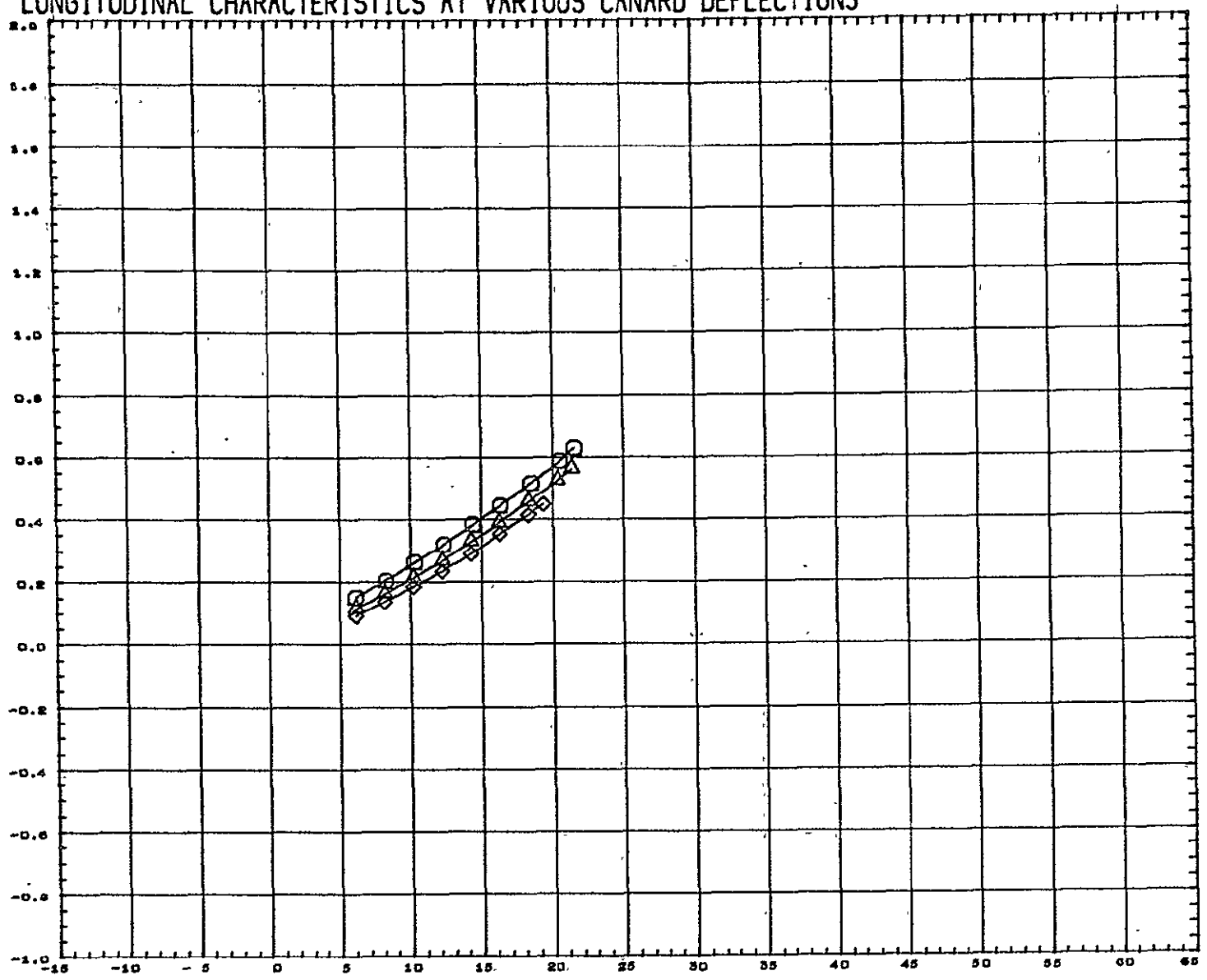
△	40.000	DER	0.000	DCL	- 30.000
		DCR	30.000	ELEVON	0.000
		CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



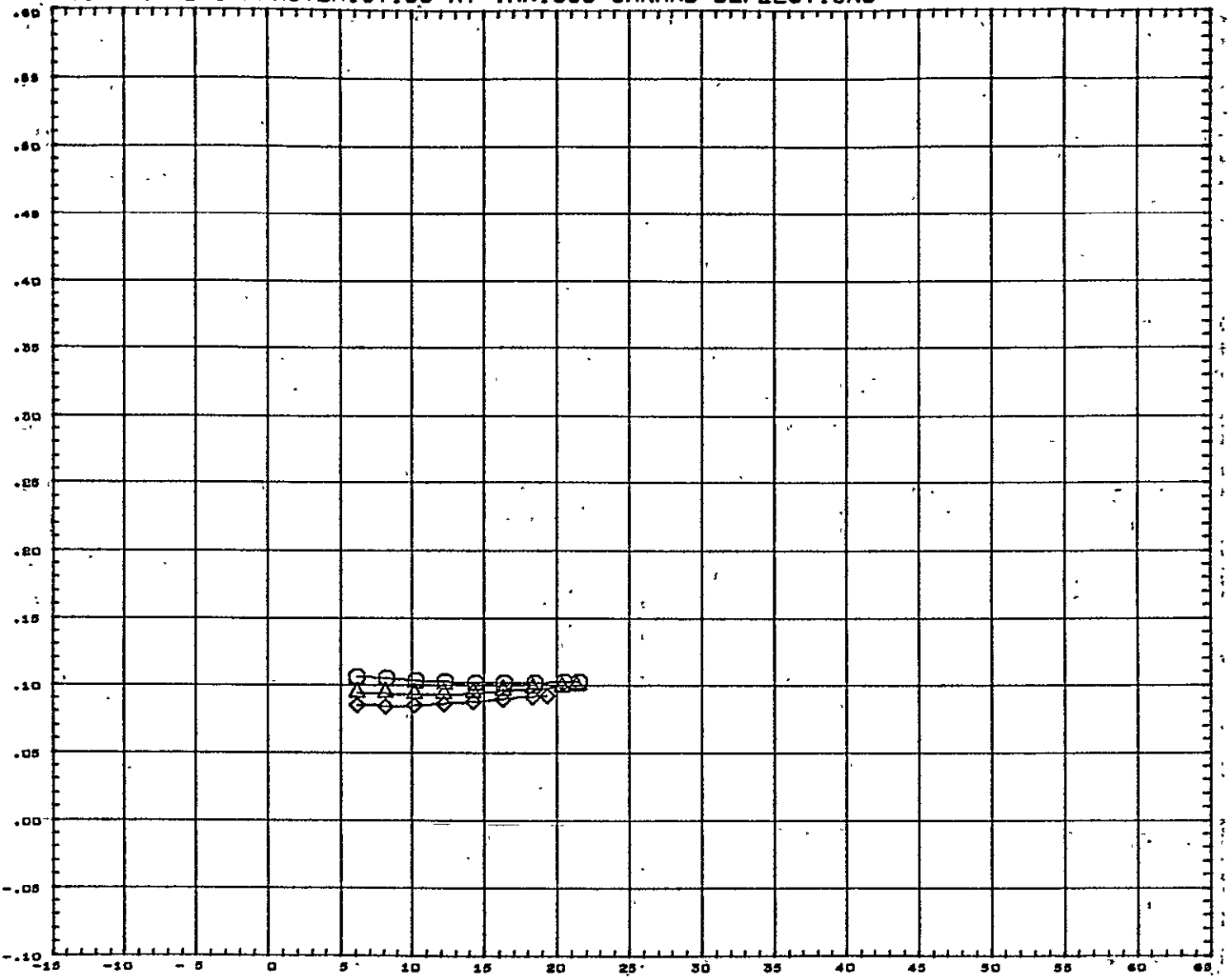
SYMBOL	MACH	PARAMETRIC VALUES			
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	- 45.000
◇	4.960	DCR	- 45.000	ELEVON	0.000
		CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

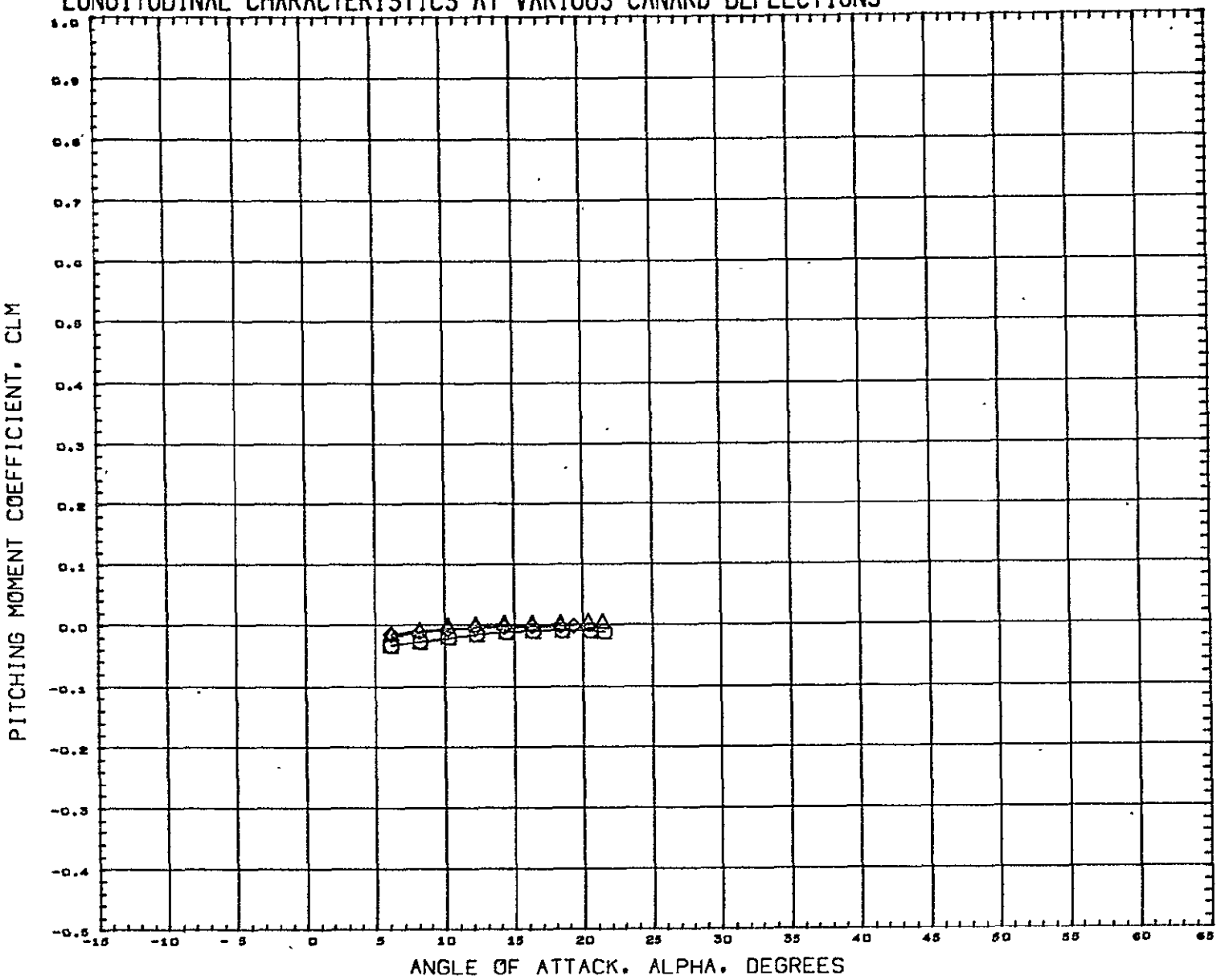


SYMBOL	MACH		PARAMETRIC VALUES		
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	- 45.000
◇	4.960	DCR	- 45.000	ELEVON	0.000
		CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE HVR*E

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH
○	2.990
△	4.000
◇	4.960

PARAMETRIC VALUES

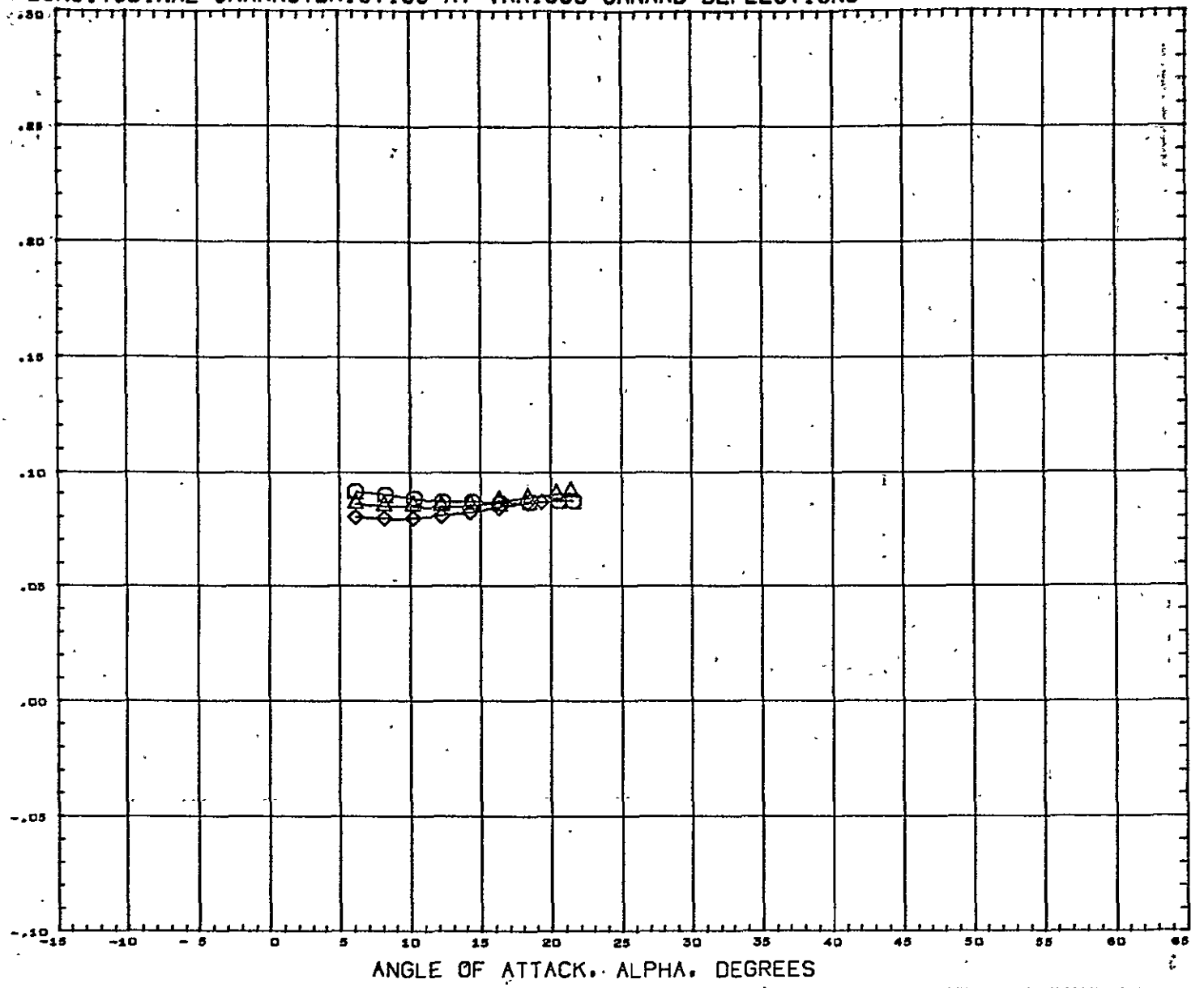
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH
○	2.990
△	4.000
◇	4.960

PARAMETRIC VALUES

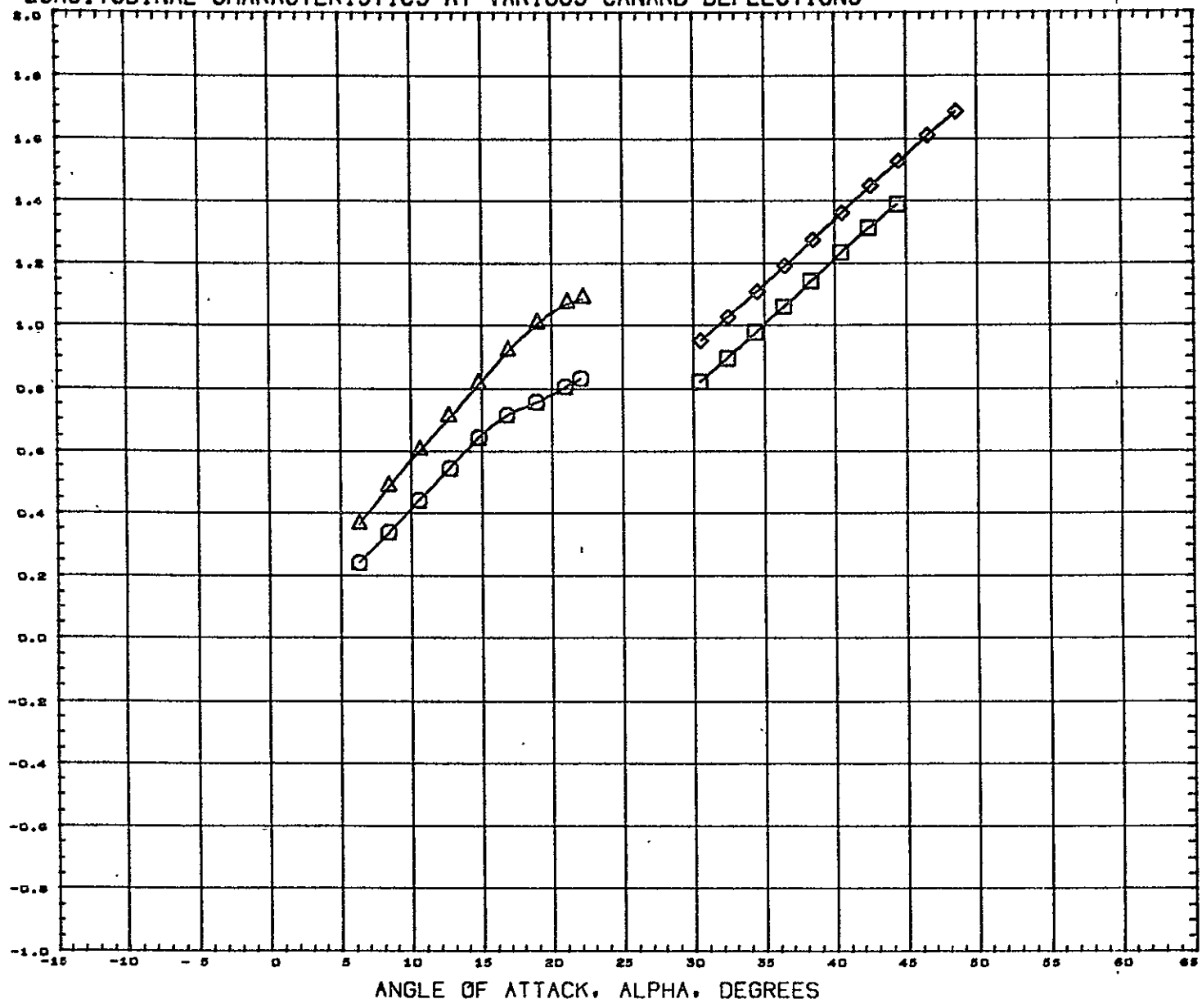
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

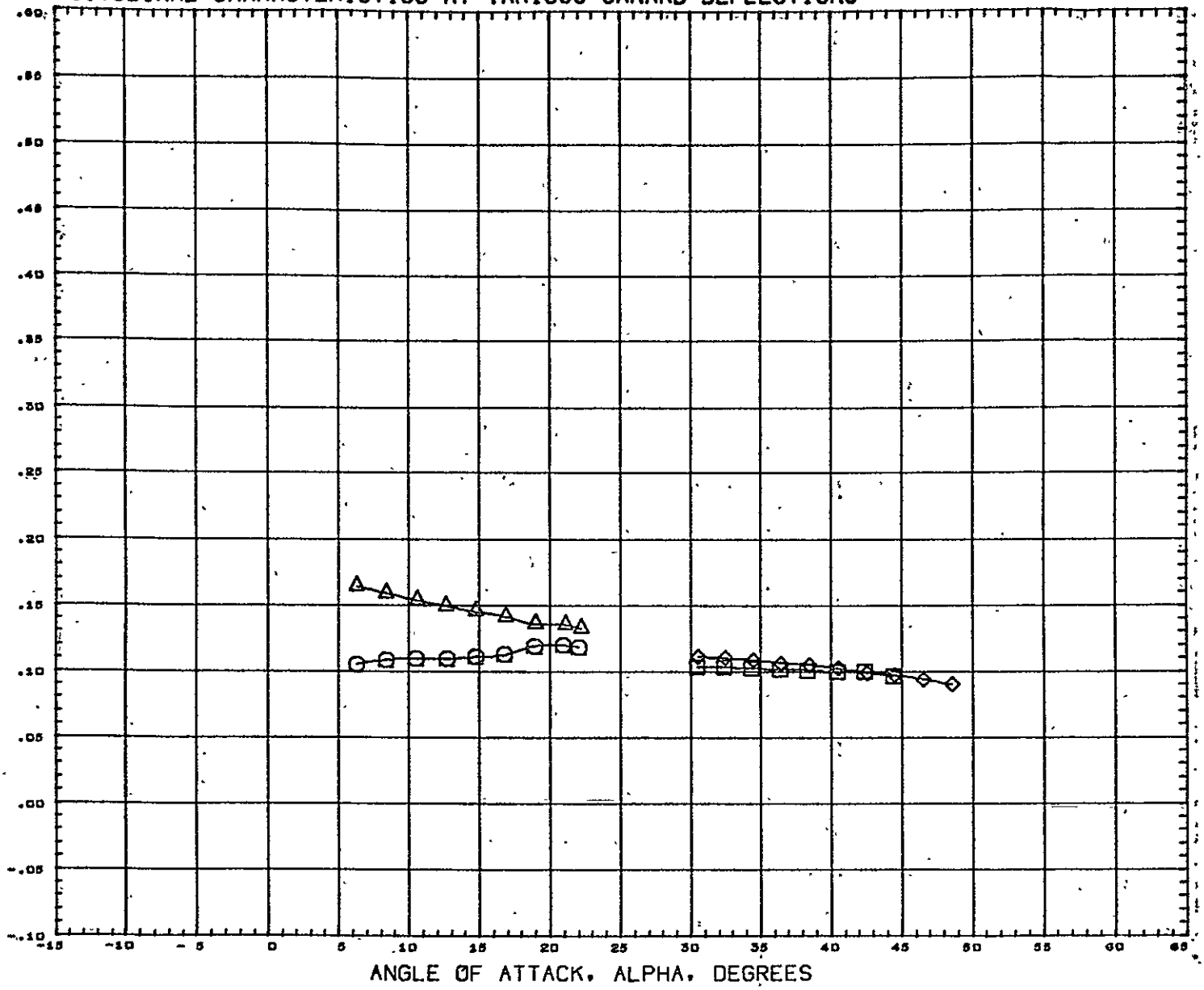


SYMBOL	MACH		PARAMETRIC VALUES		
○	0.900	BETA	0.000	DEL	0.000
△	1.053	DER	0.000	DCL	- 60.000
◇	2.990	DCR	- 60.000	ELEVON	0.000
□	4.960	CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE MVR4E*G

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0930	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

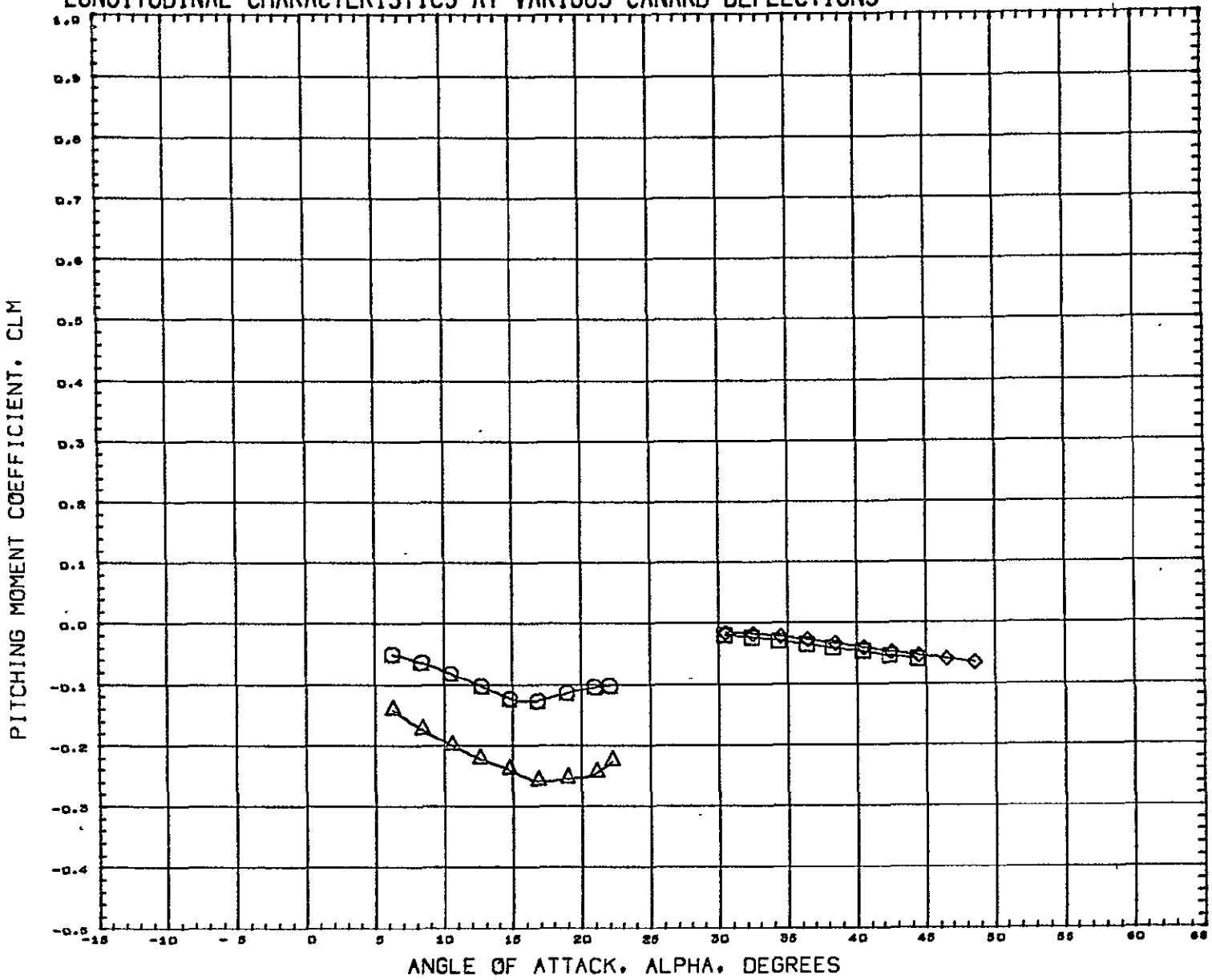


SYMBOL	MACH		PARAMETRIC VALUES		
○	0.900	BETA	0.000	DEL	0.000
△	1.053	DER	0.000	DCL	- 60.000
◇	2.990	DCR	- 60.000	ELEVON	0.000
□	4.960	CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE MVR*E*G

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

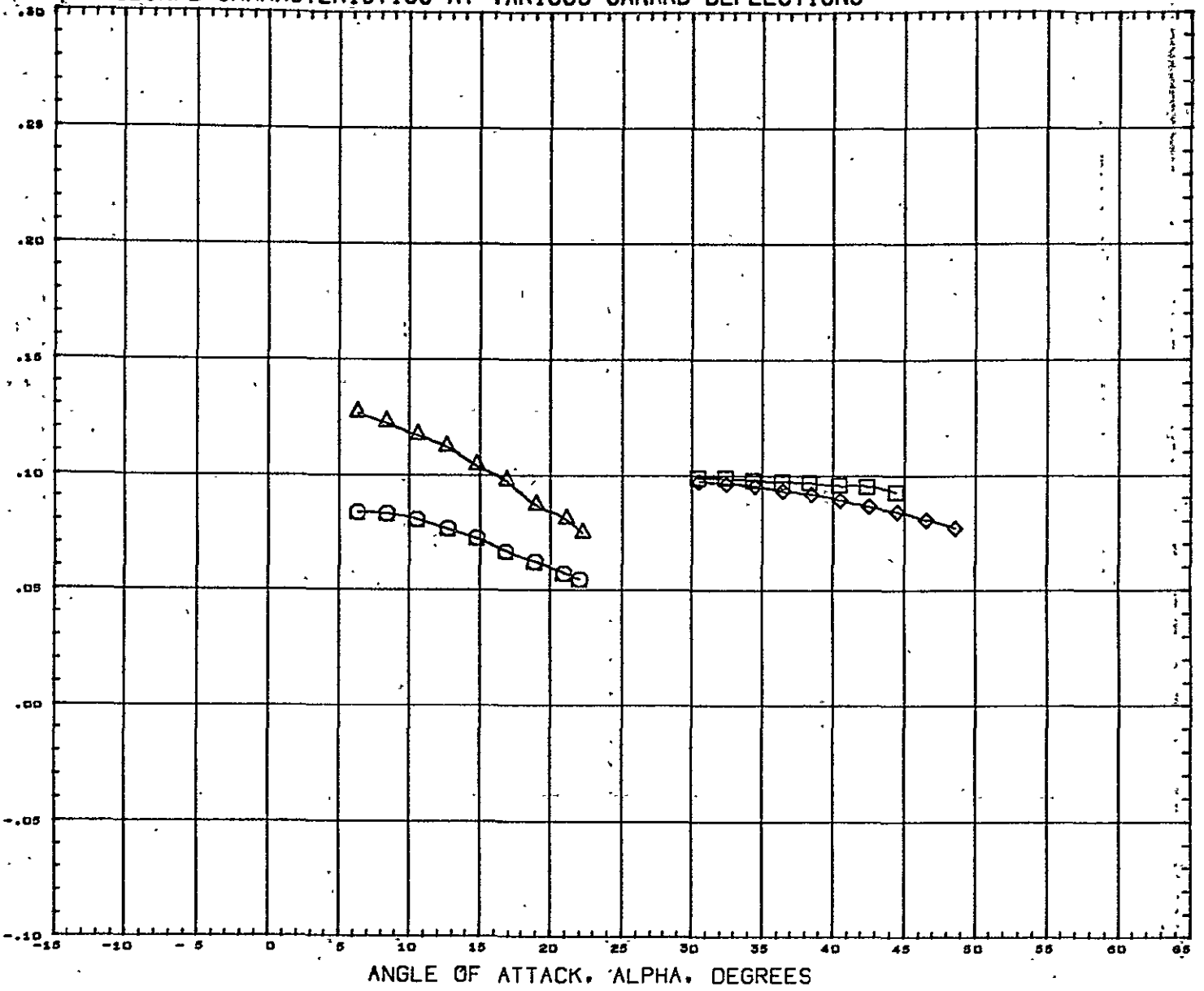


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.900	BETA	0.000	DEL	0.000
△	1.053	DER	0.000	DCL	- 60.000
◇	2.990	DCR	- 60.000	ELEVON	0.000
□	4.960	CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE HVR*E*G

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

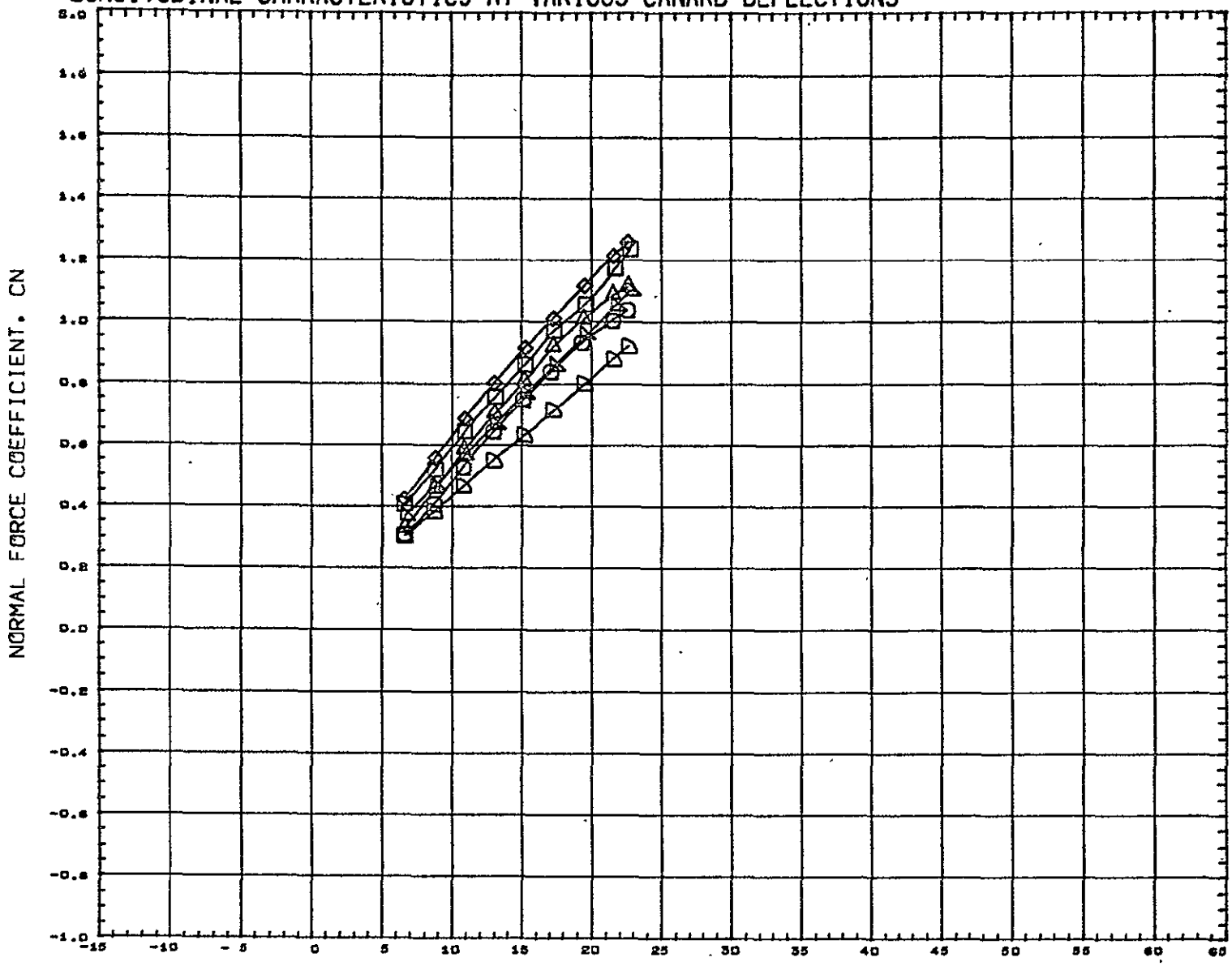


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.900	BETA	0.000	DEL	0.000
△	1.053	DER	0.000	DCL	- 60.000
◇	2.990	DCR	- 60.000	ELEVON	0.000
□	4.960	CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE MVR*E*G

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

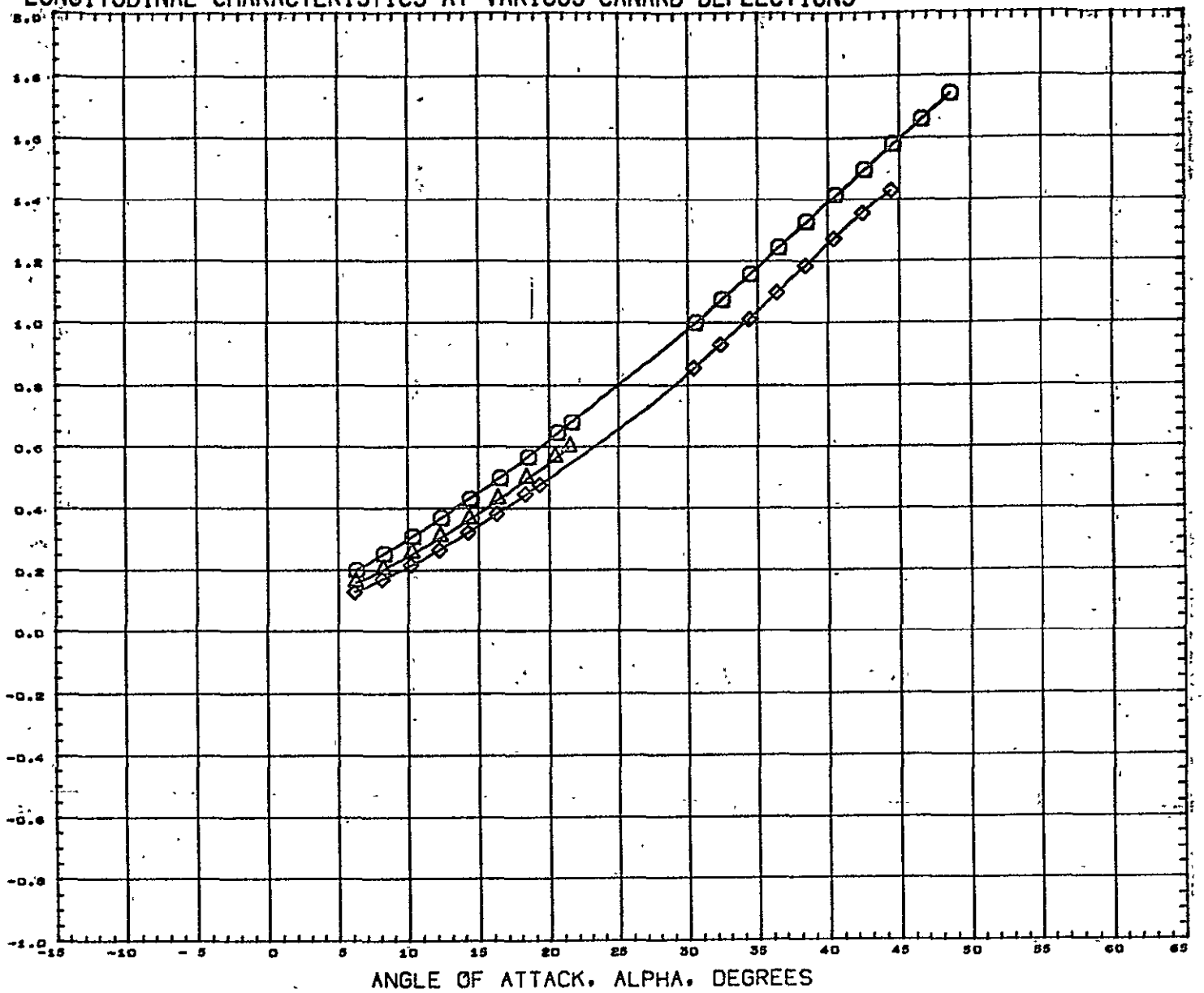
LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.901	BETA	0.000	DEL	0.000
△	0.955	DER	0.000	DCL	15.000
◇	1.051	DCR	15.000	ELEVON	0.000
□	1.203	CANARD	15.000	AILRON	0.000
▽	1.460				
	1.956	DATA HIST. CODE	MVR*E*G		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	5.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

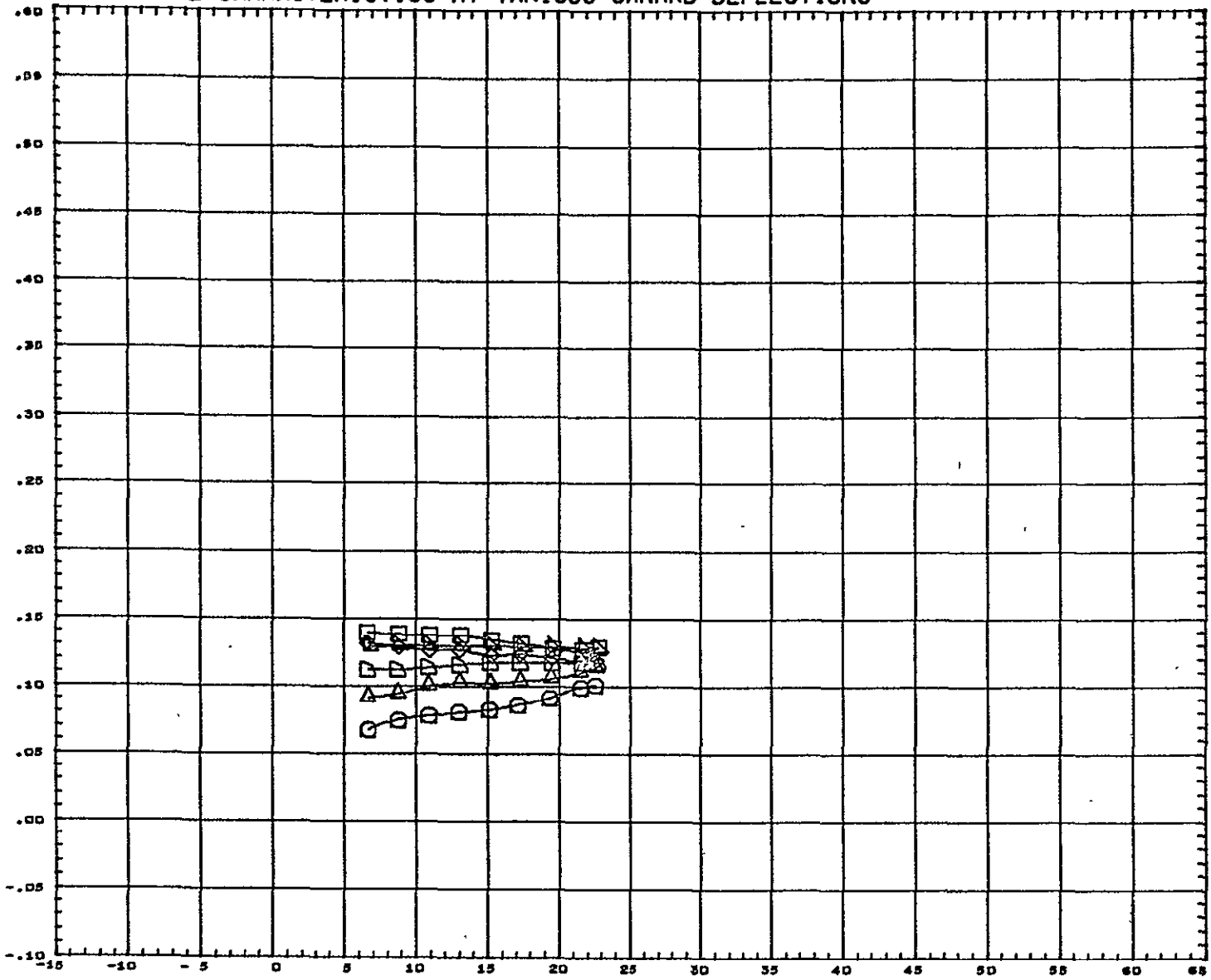


SYMBOL	MACH	PARAMETRIC VALUES			
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	15.000
◇	4.960	DCR	15.000	ELEVON	0.000
		CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR*E*G

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	9.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

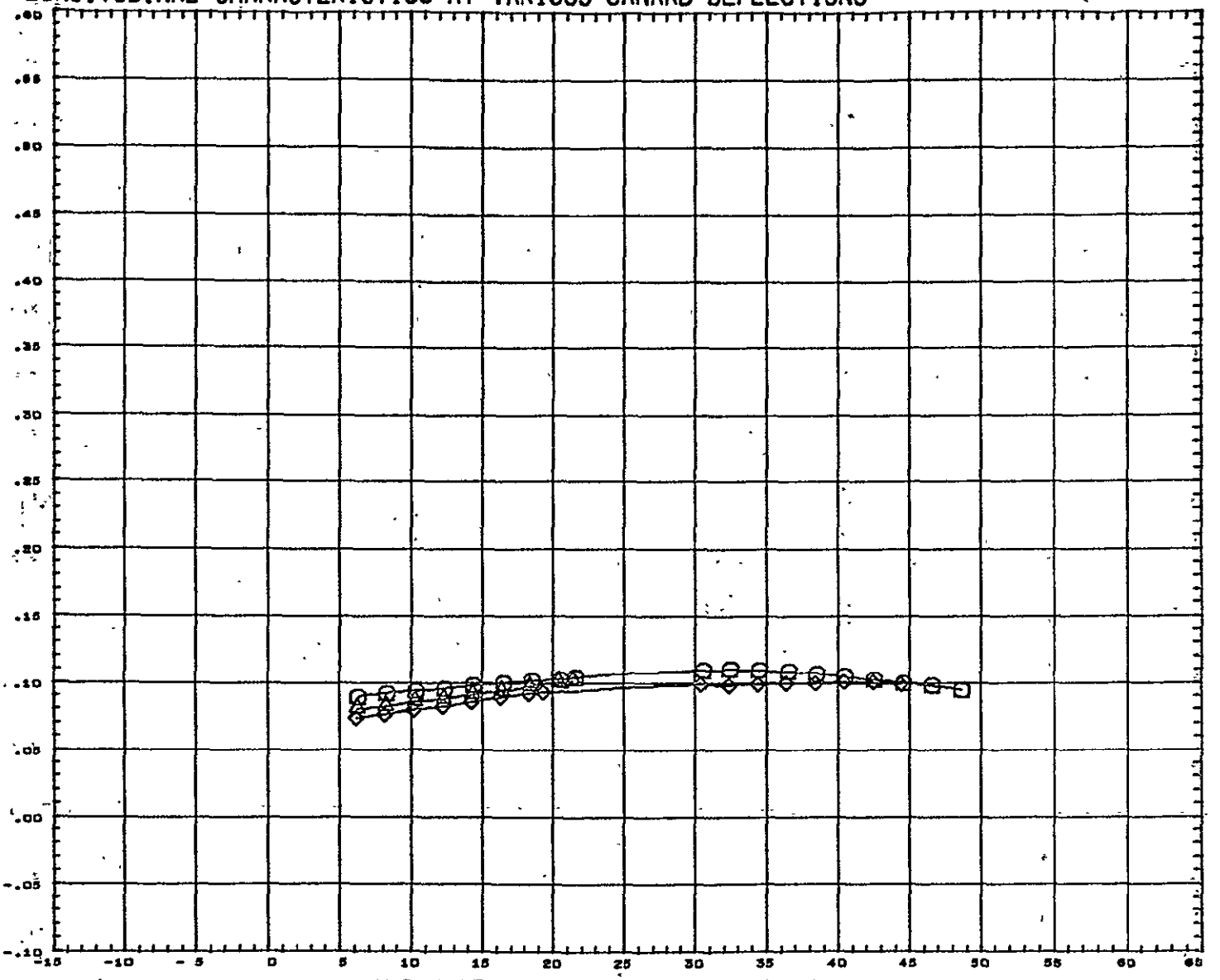
LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
◇	0.901	BETA	0.000	DEL	0.000
□	0.955	DER	0.000	DCL	15.000
△	1.051	DCR	15.000	ELEVON	0.000
▷	1.203	CANARD	15.000	AILRON	0.000
◁	1.460				
○	1.958	DATA HIST. CODE		HVR*E*G	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

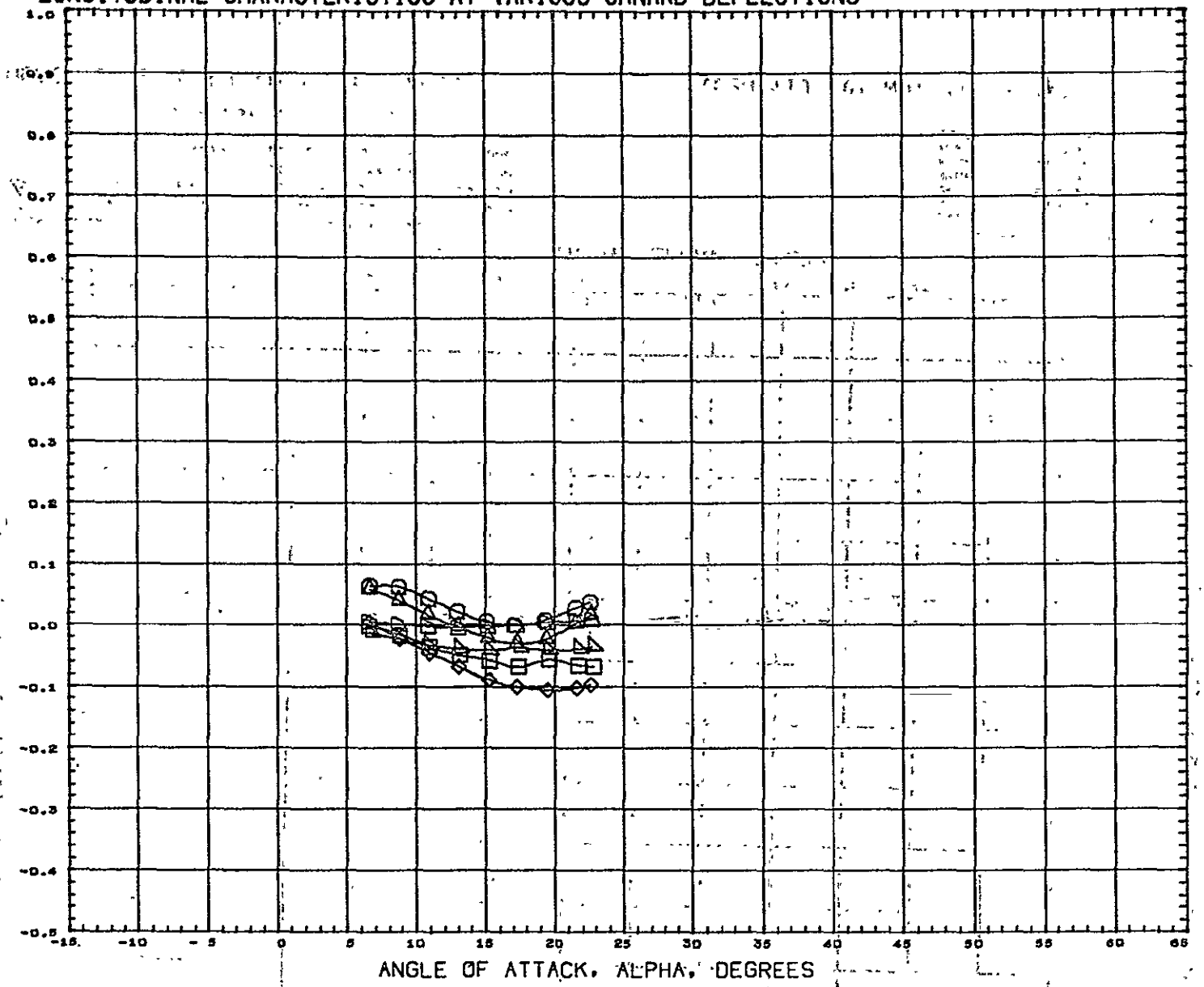


SYMBOL	MACH		PARAMETRIC VALUES		
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	15.000
◇	4.960	DCR	15.000	ELEVON	0.000
		CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR*E*G

REFERENCE INFORMATION		
SREF	15.6360	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

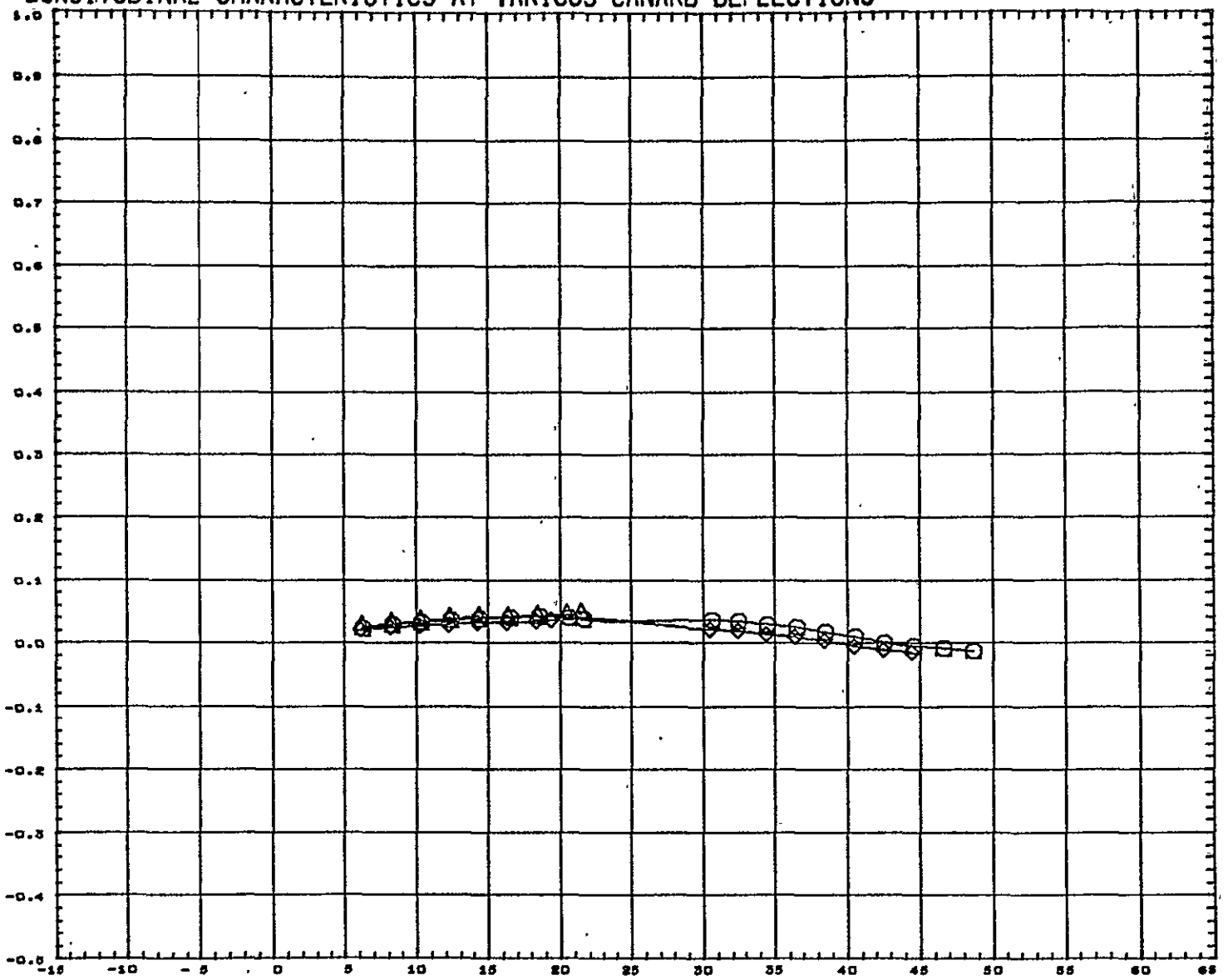
LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.901	BETA	0.000	DEL	0.000
△	0.955	DER	0.000	DCL	15.000
◇	1.051	DCR	15.000	ELEVON	0.000
□	1.205	CANARD	15.000	AILRON	0.000
▽	1.460				
◸	1.956	DATA HIST. CODE	MVR*E*G		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

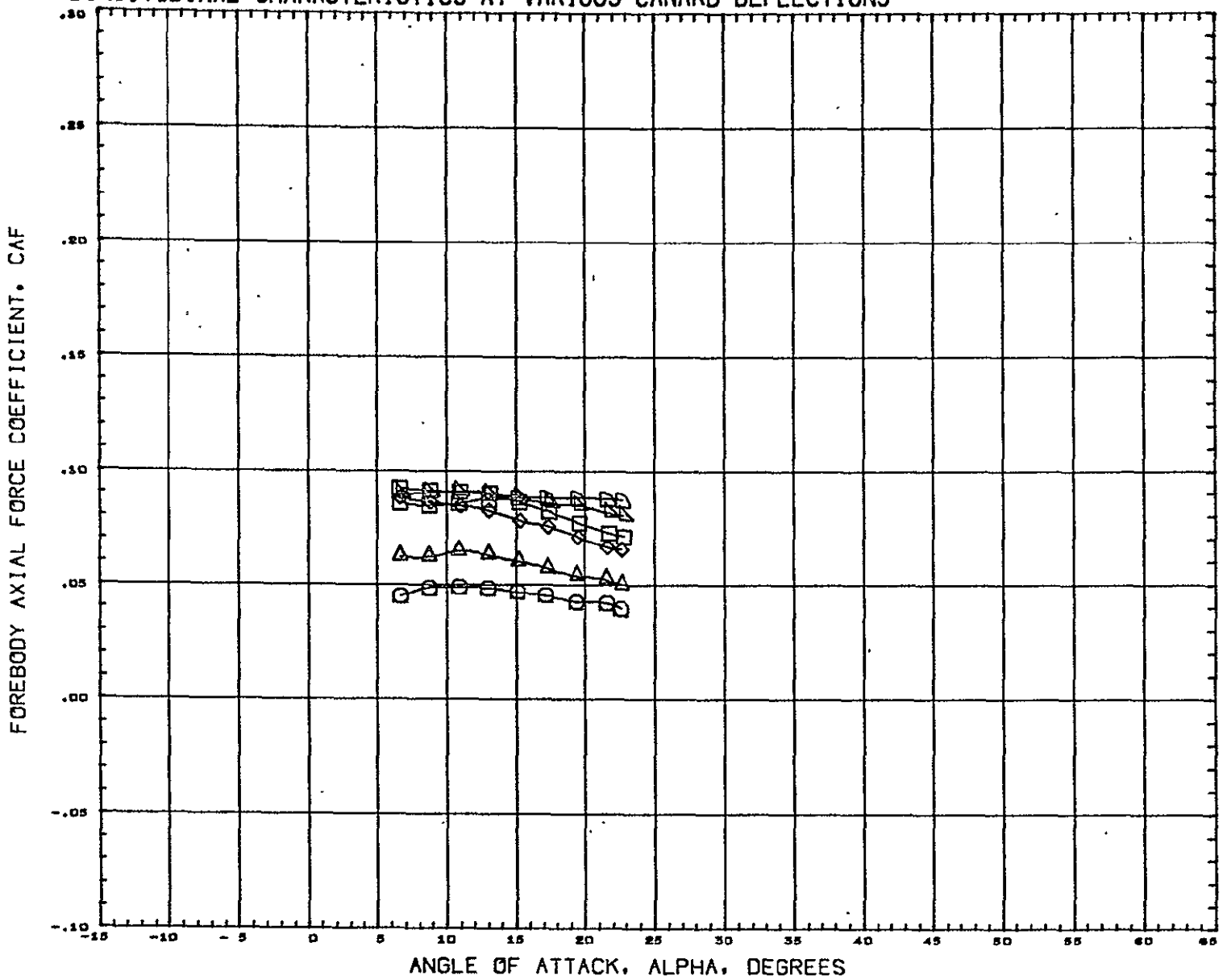


SYMBOL	MACH		PARAMETRIC VALUES		
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	15.000
◇	4.960	DCR	15.000	ELEVON	0.000
		CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR*E*G

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

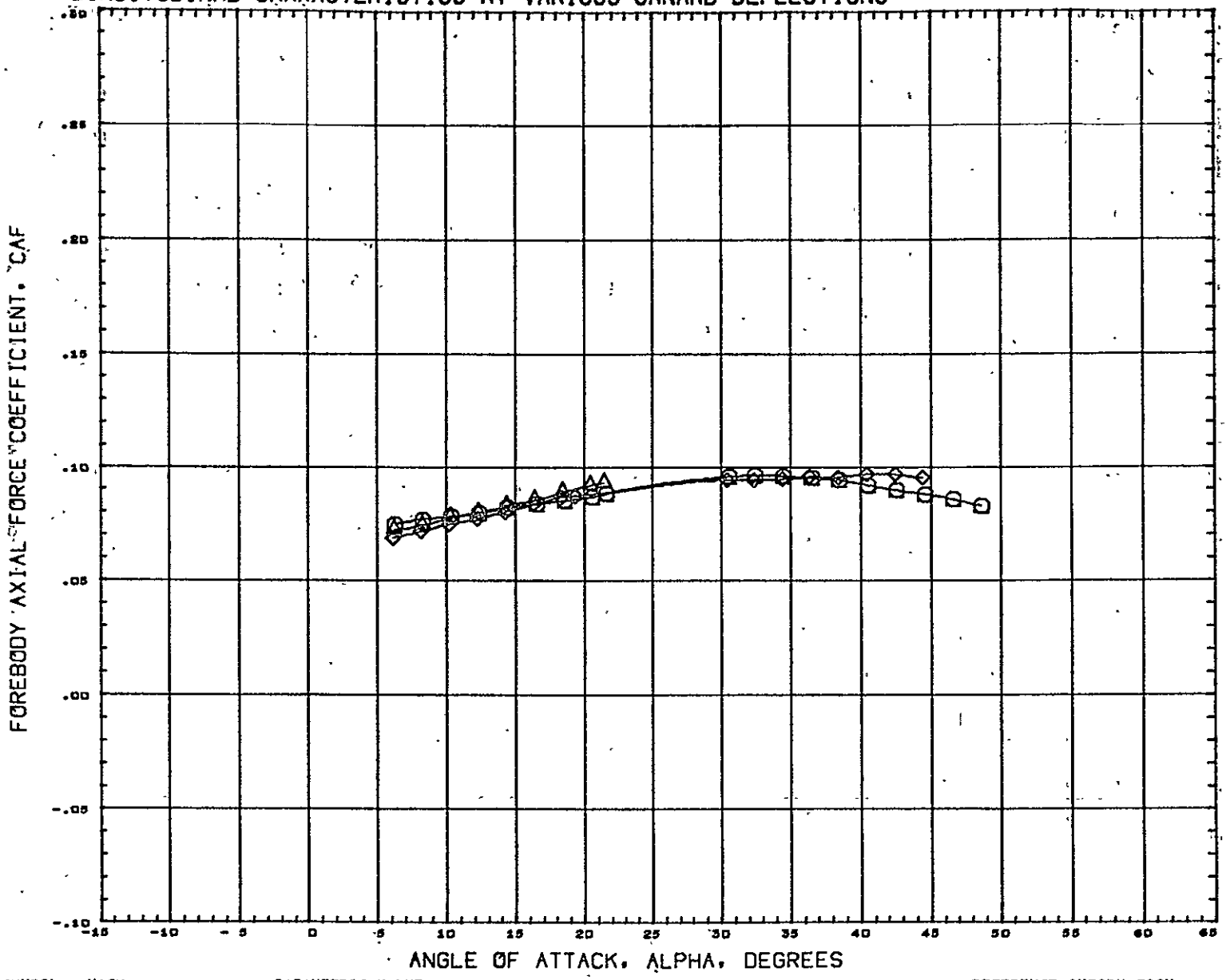
LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.901	BETA	0.000	DEL	0.000
△	0.955	DER	0.000	DCL	15.000
◇	1.051	DCR	15.000	ELEVON	0.000
□	1.203	CANARD	15.000	AILRON	0.000
▽	1.460				
	1.958	DATA HIST. CODE	MVR*E*G		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



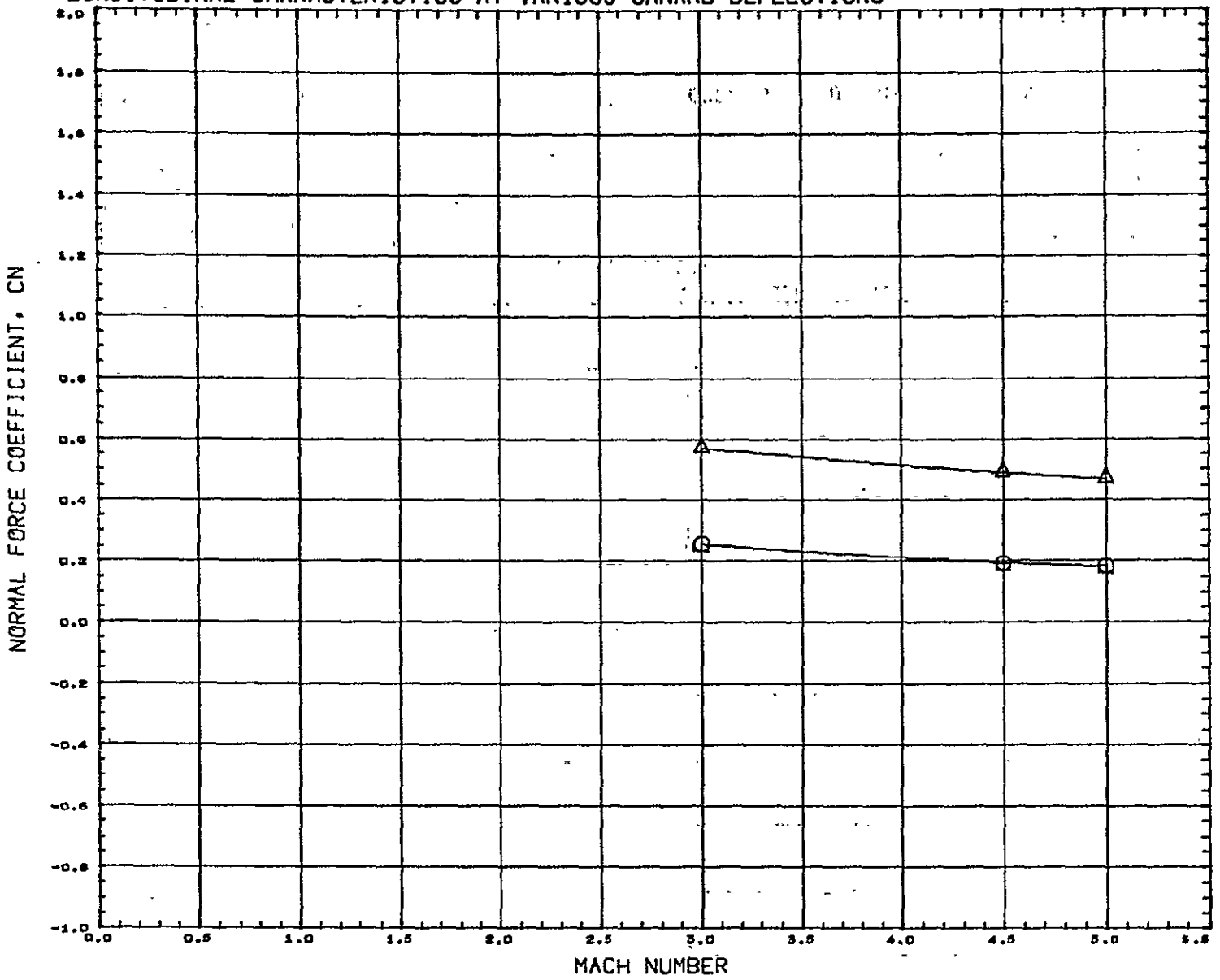
SYMBOL	MACH		PARAMETRIC VALUES		
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	15.000
◇	4.960	DCR	15.000	ELEVON	0.000
		CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR*E*G

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
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△	20.000

PARAMETRIC VALUES

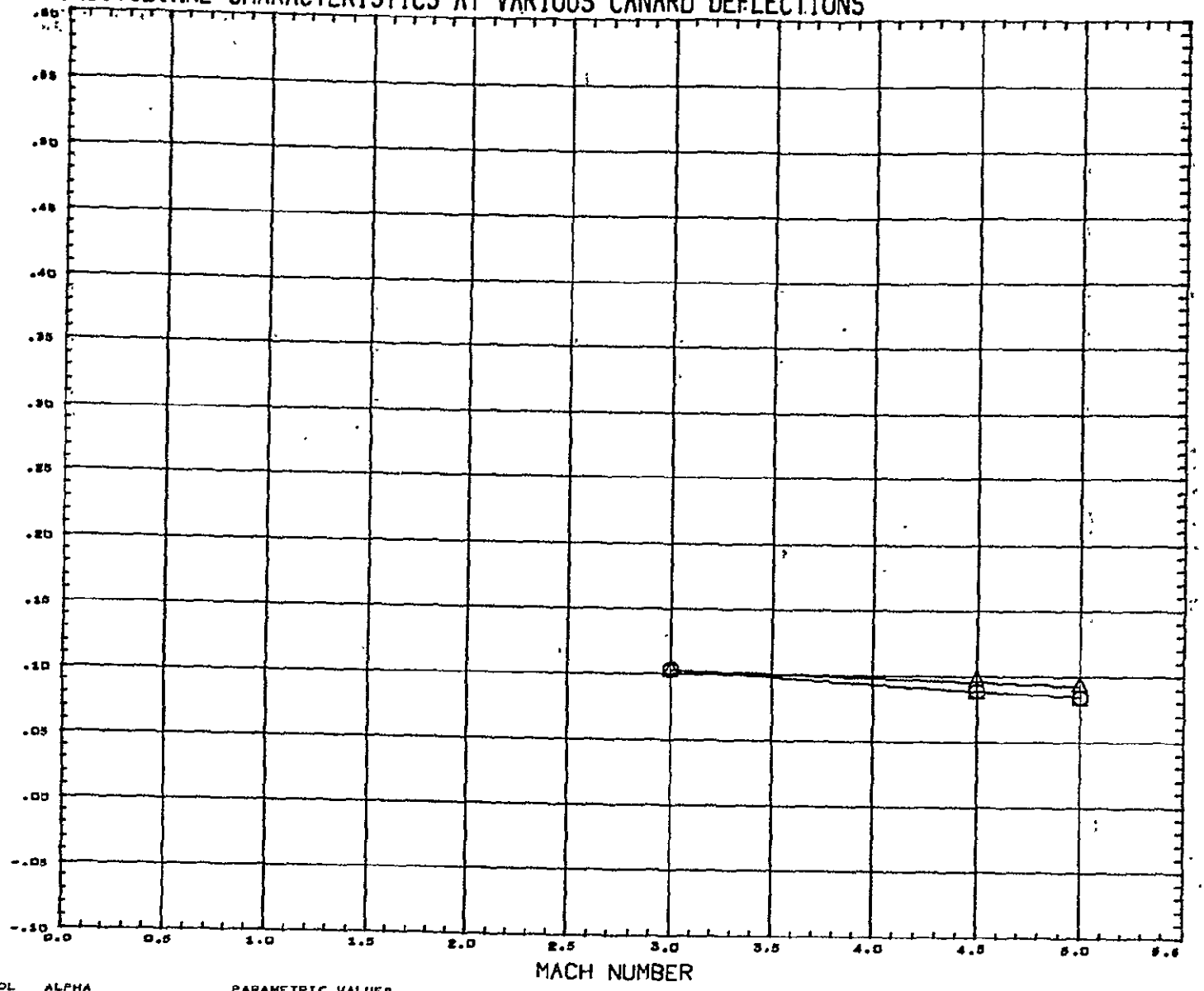
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
▷	10.000
○	20.000

PARAMETRIC VALUES

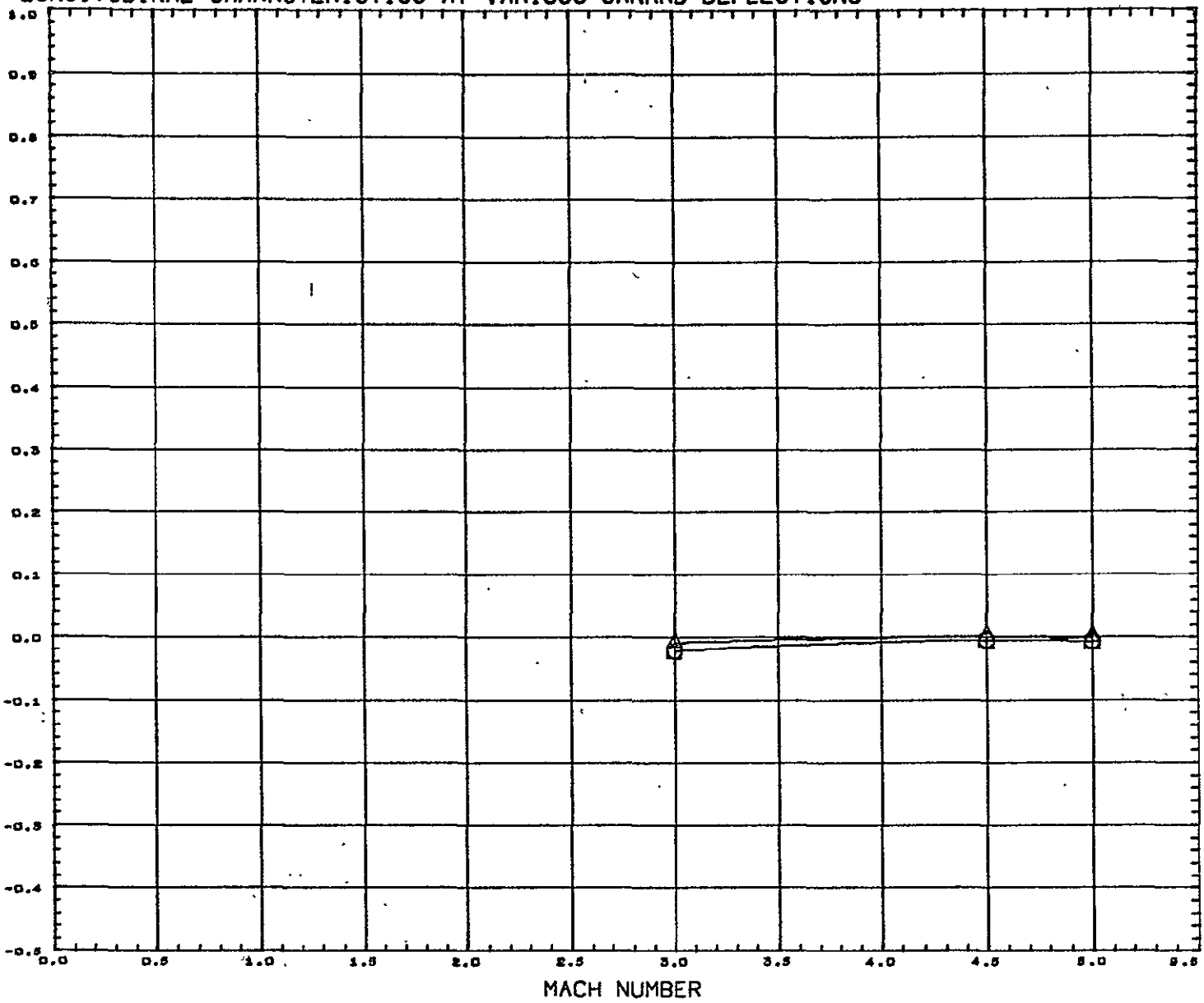
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE HVR#EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	5.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
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△	20.000

PARAMETRIC VALUES

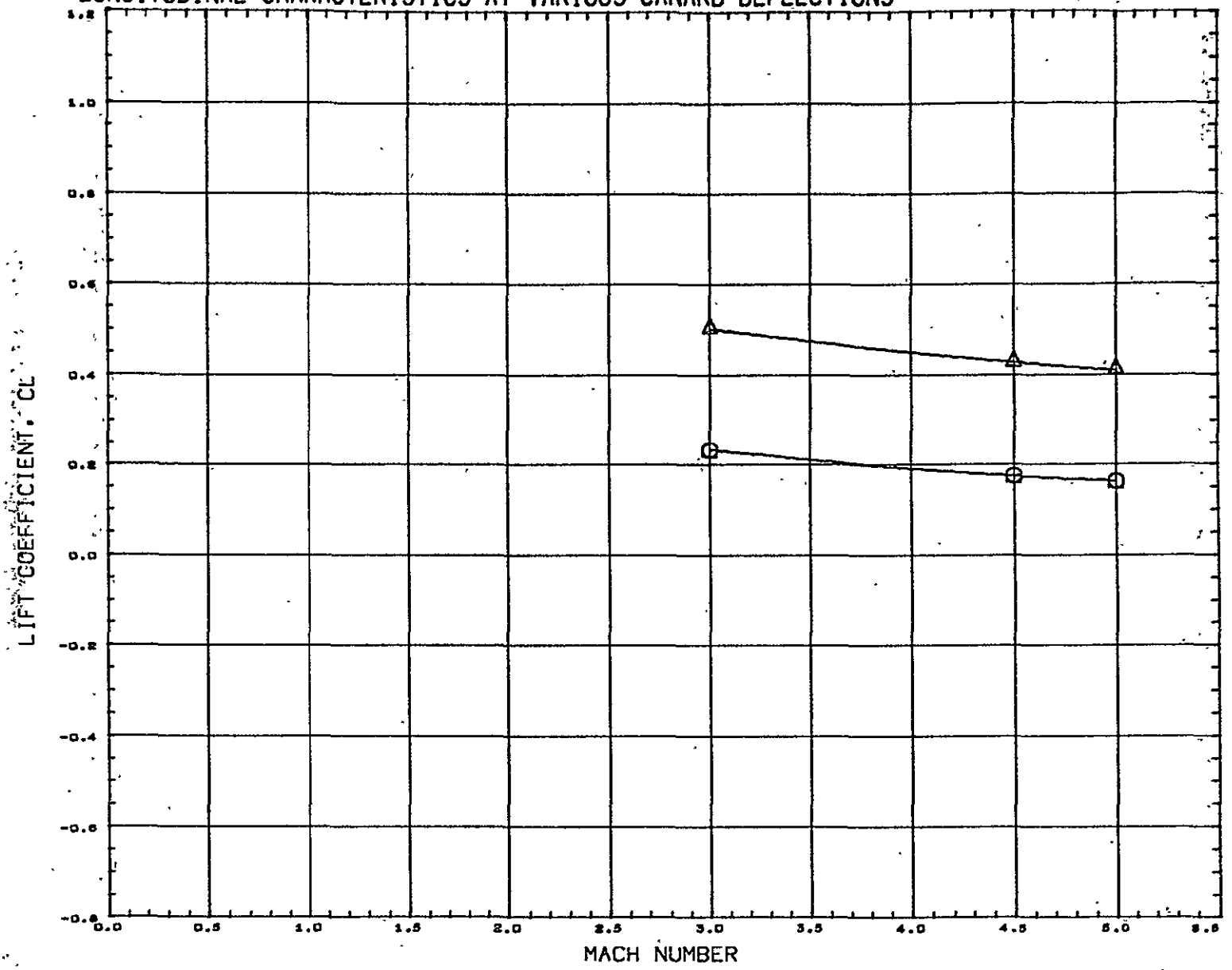
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

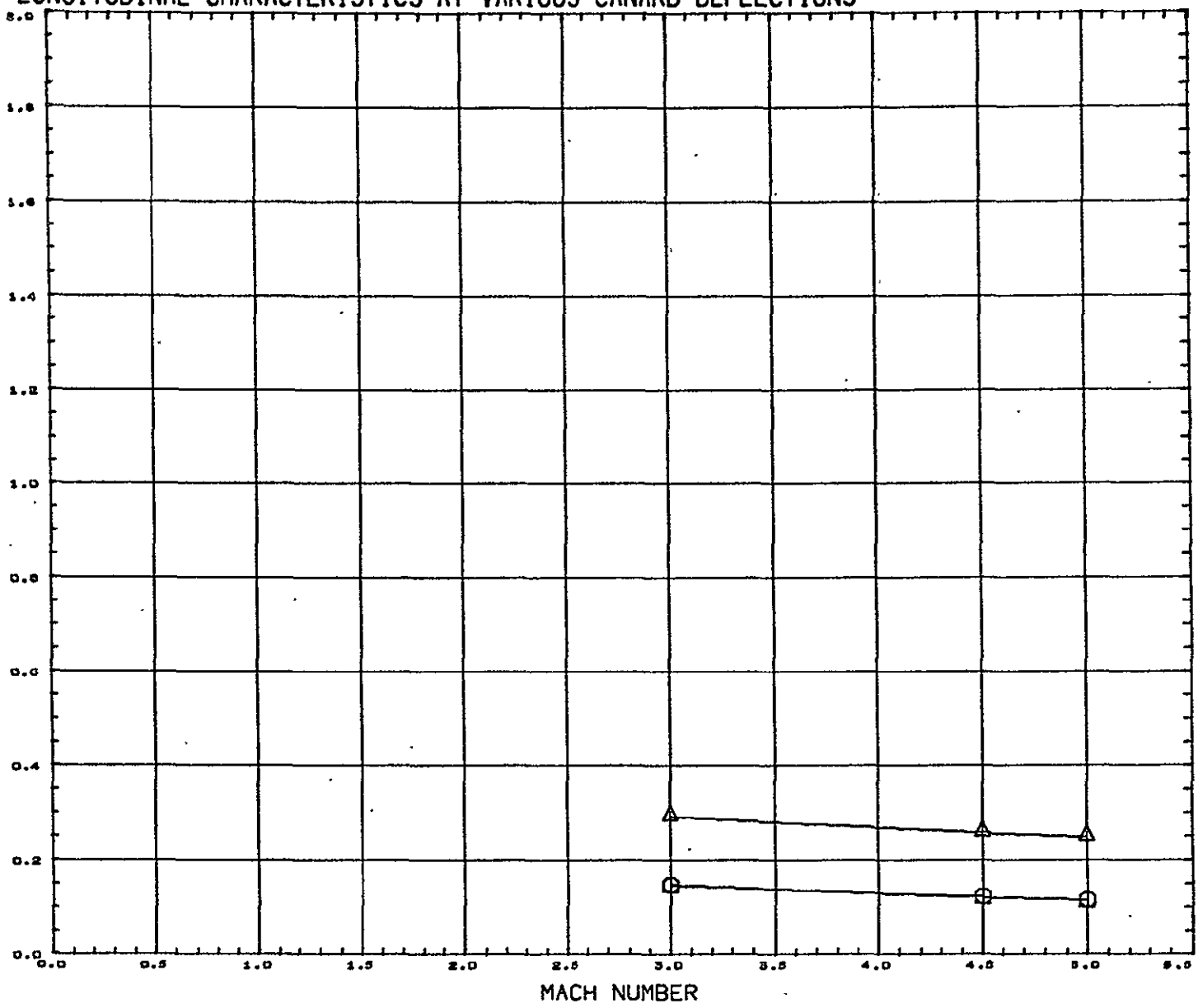
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

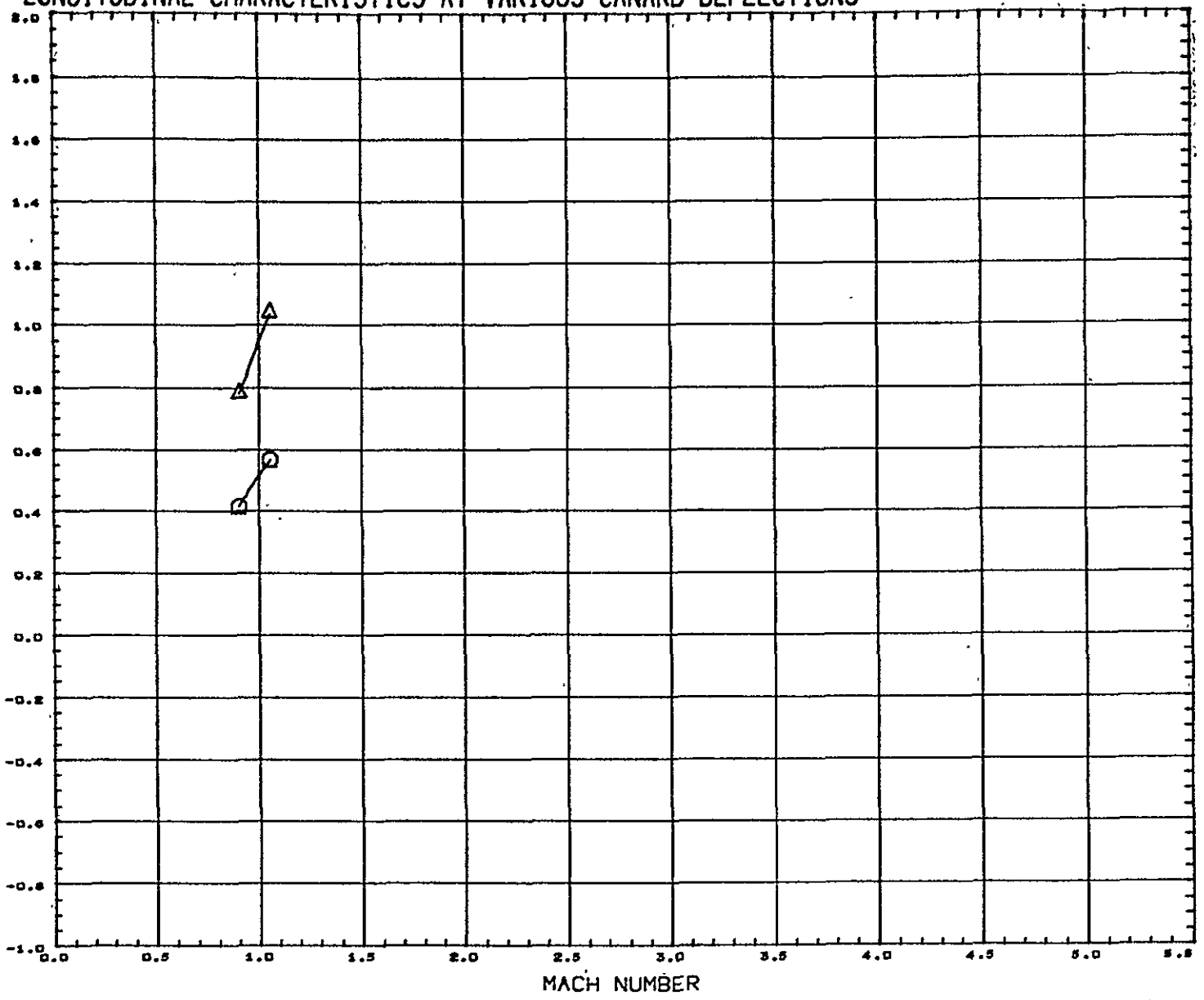
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE HVR#E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

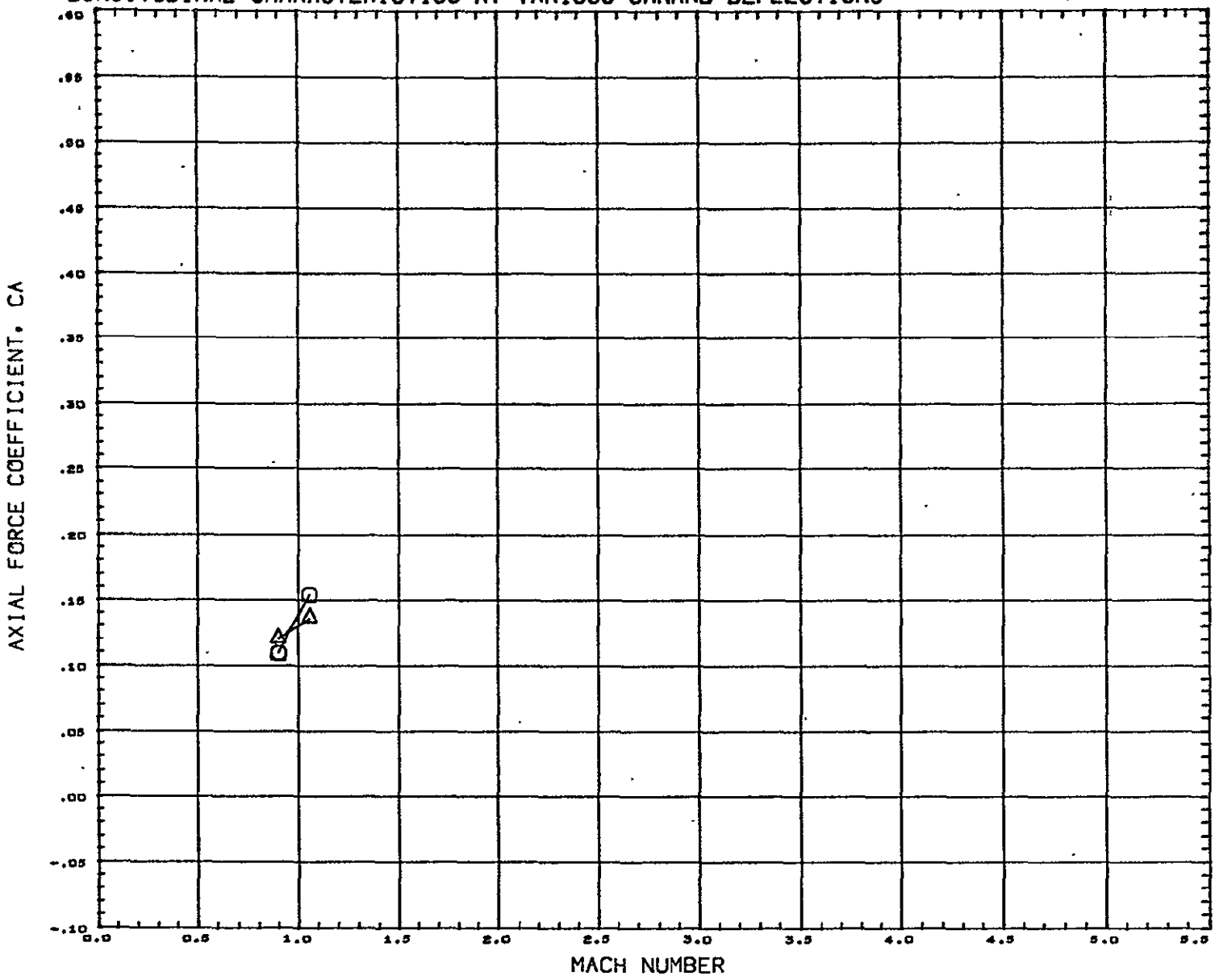
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

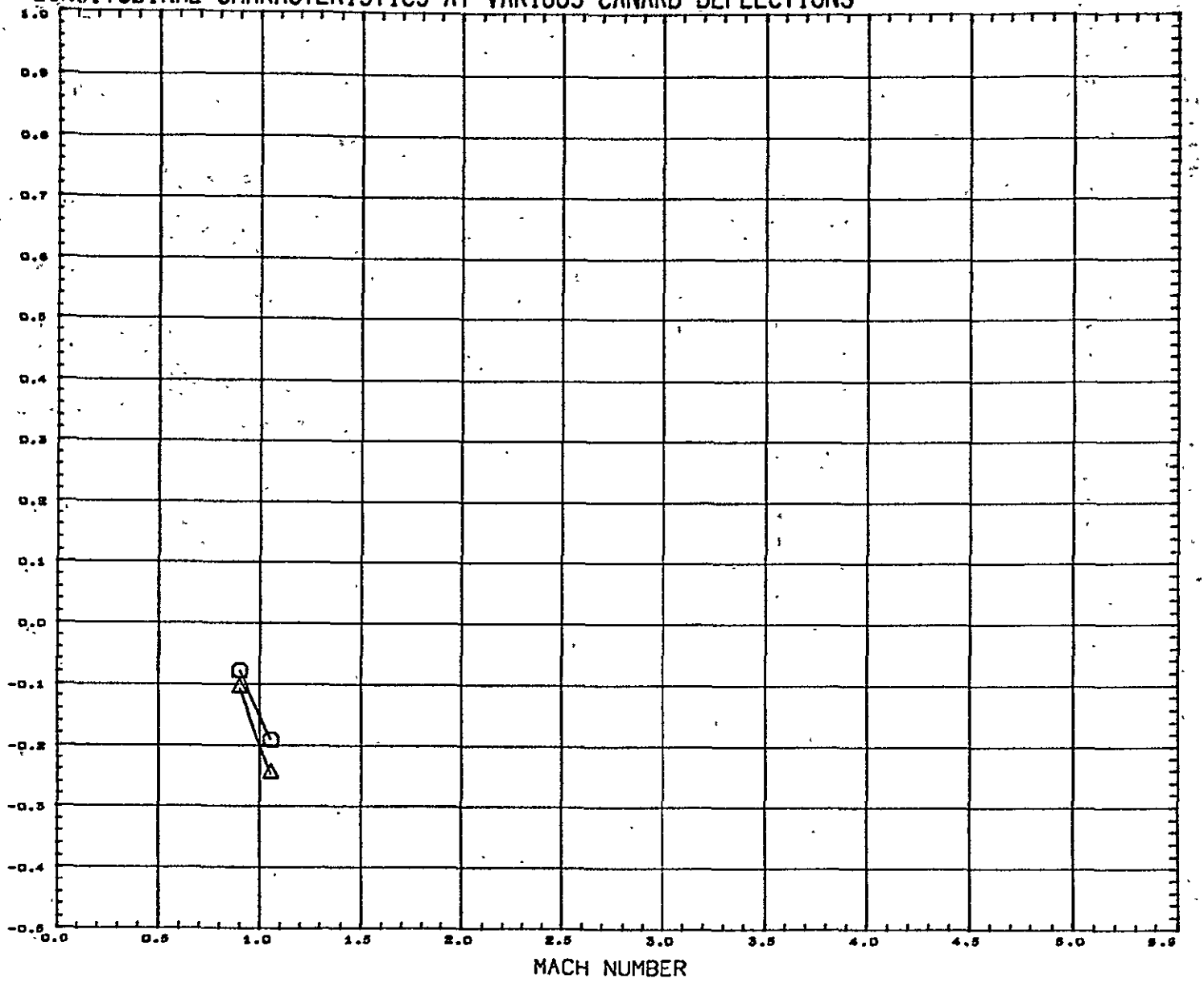
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE HVR#E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

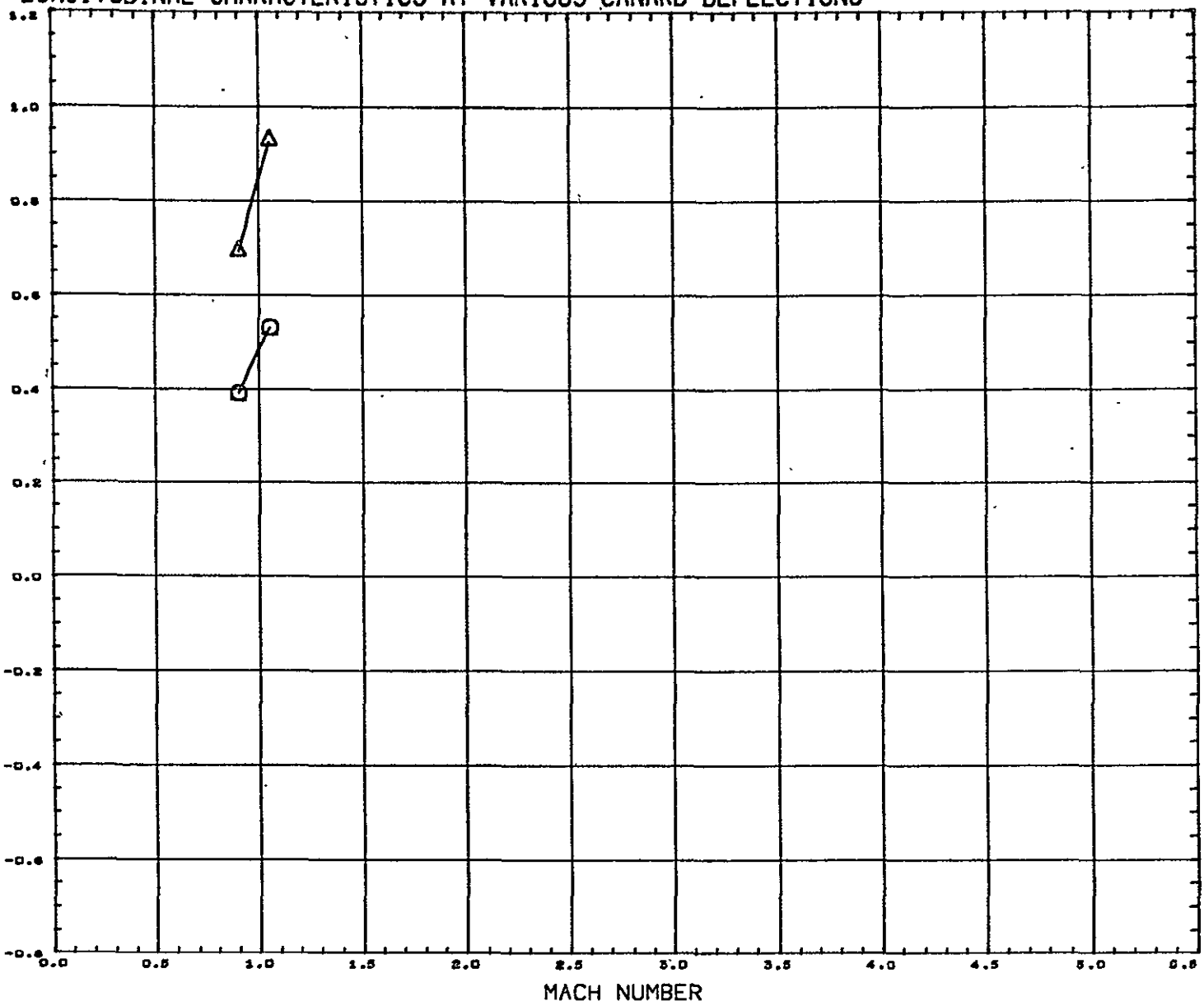
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

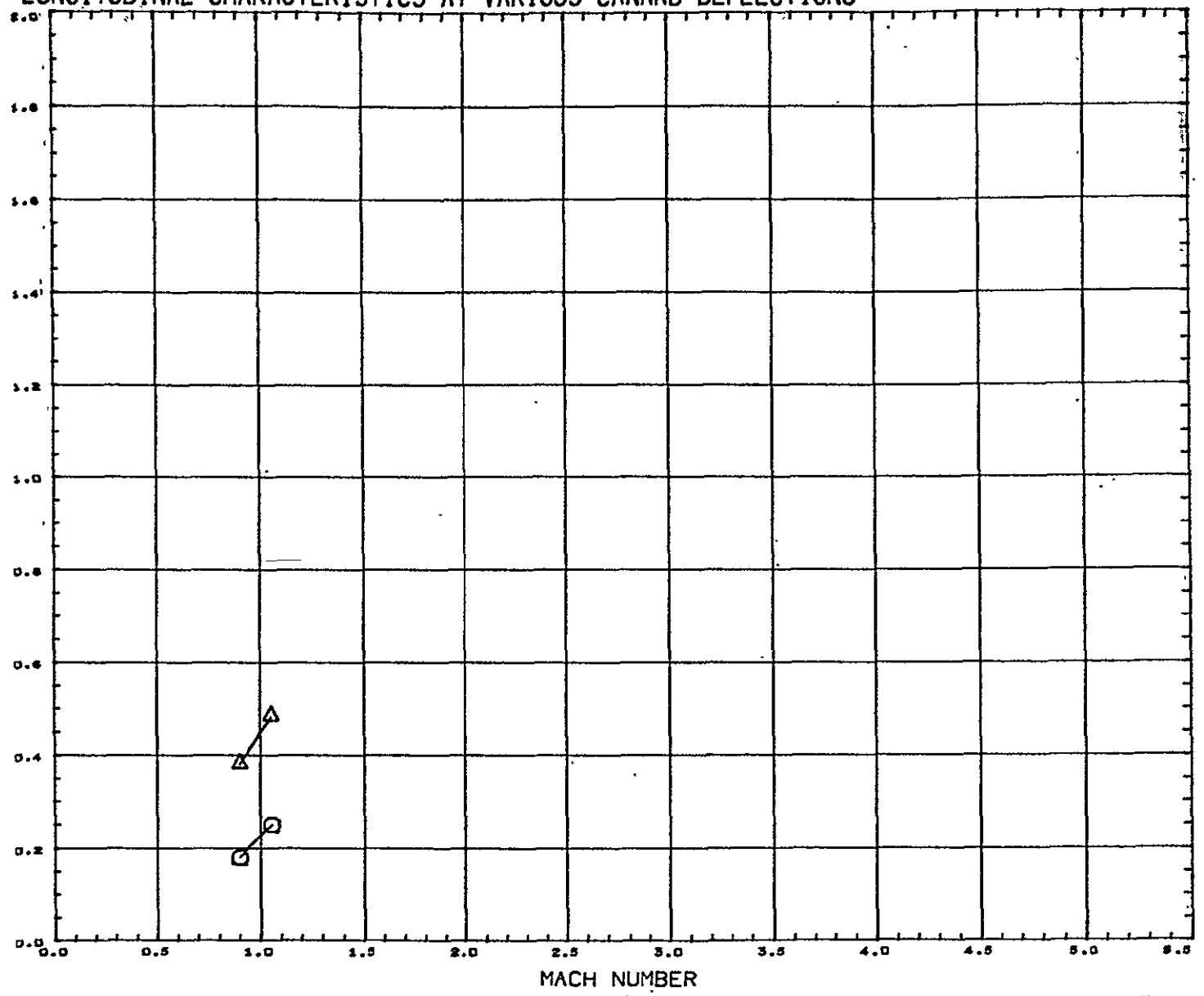
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE HVR#EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

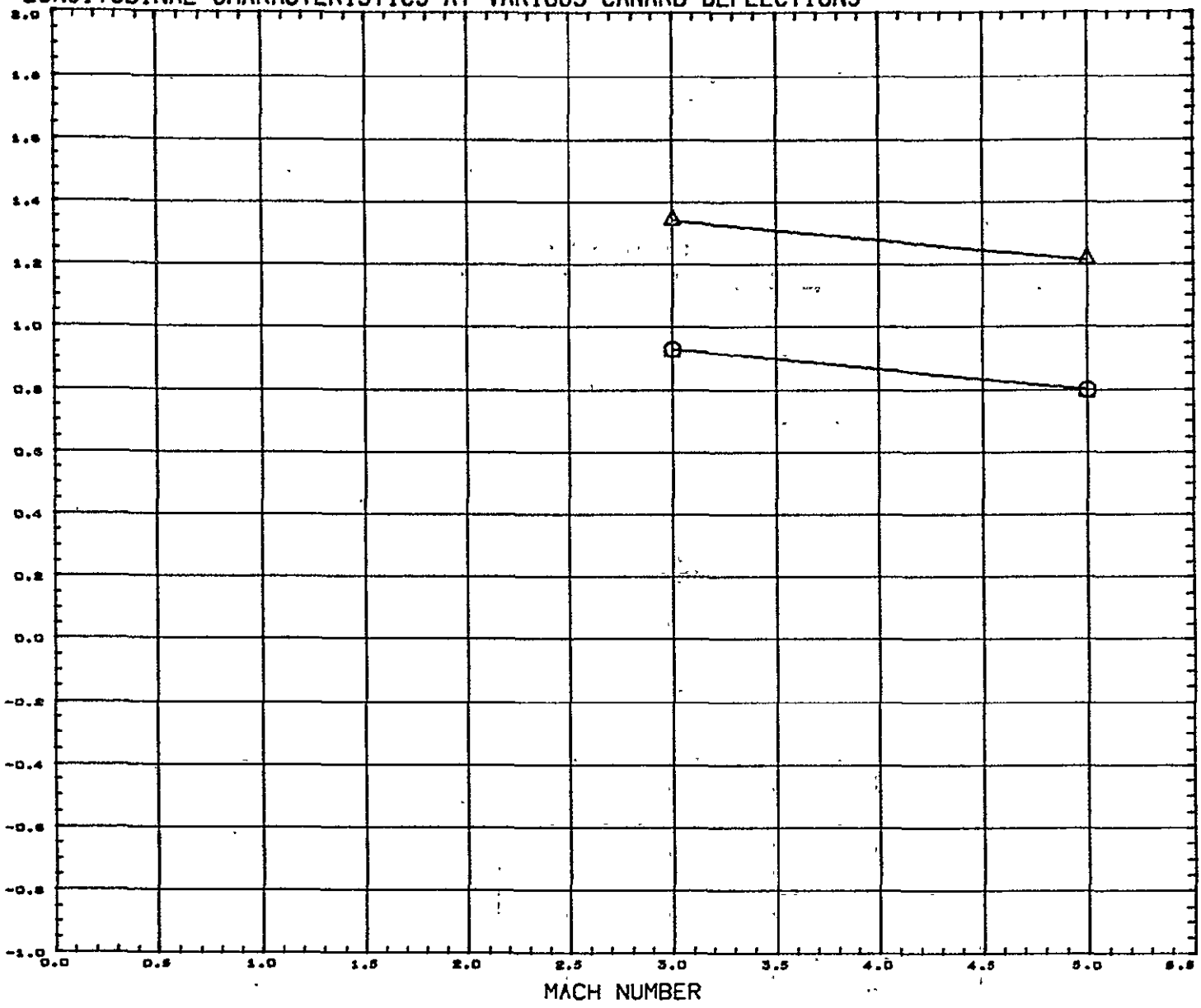
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVCN	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

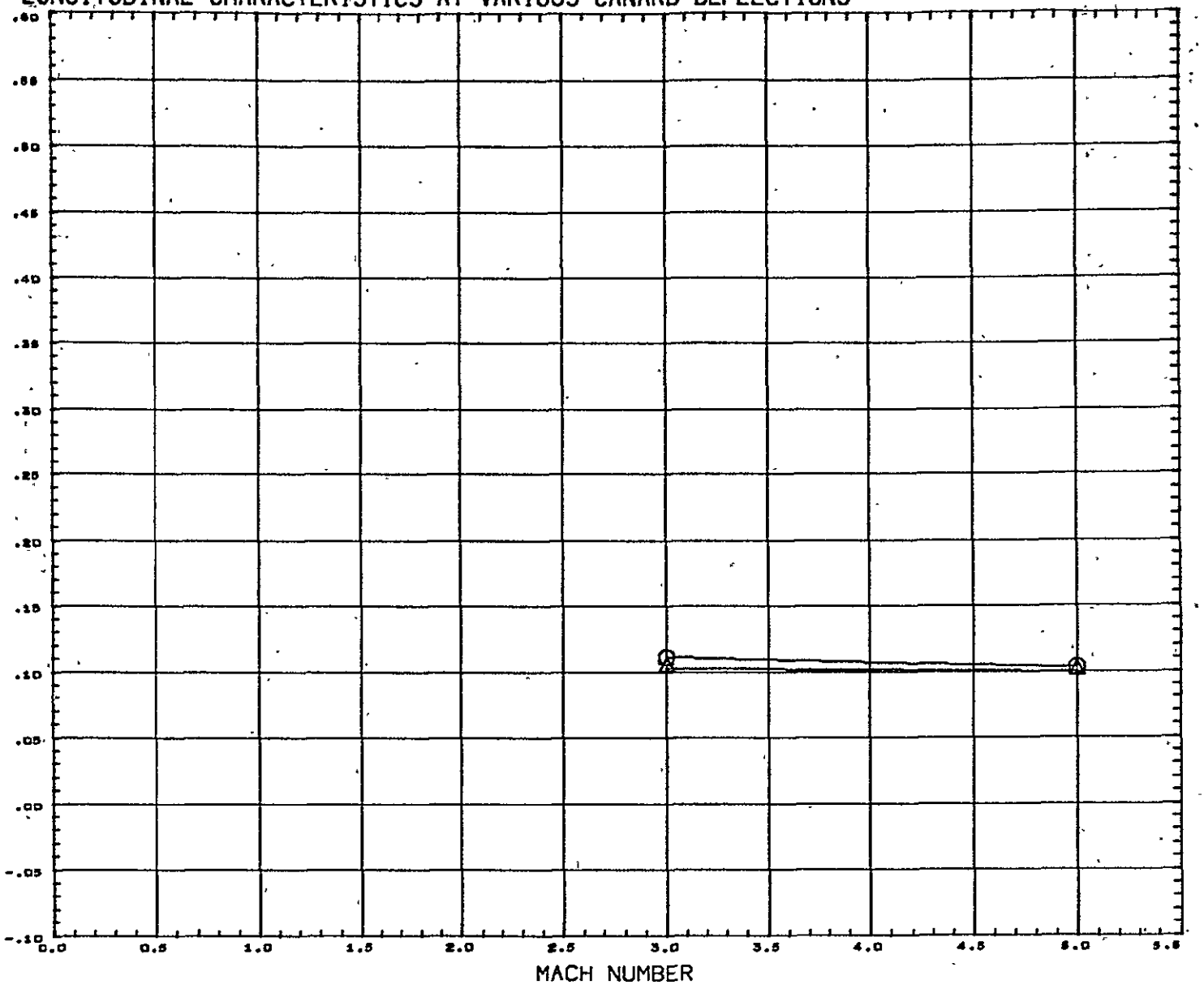
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



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⊗	40.000

PARAMETRIC VALUES

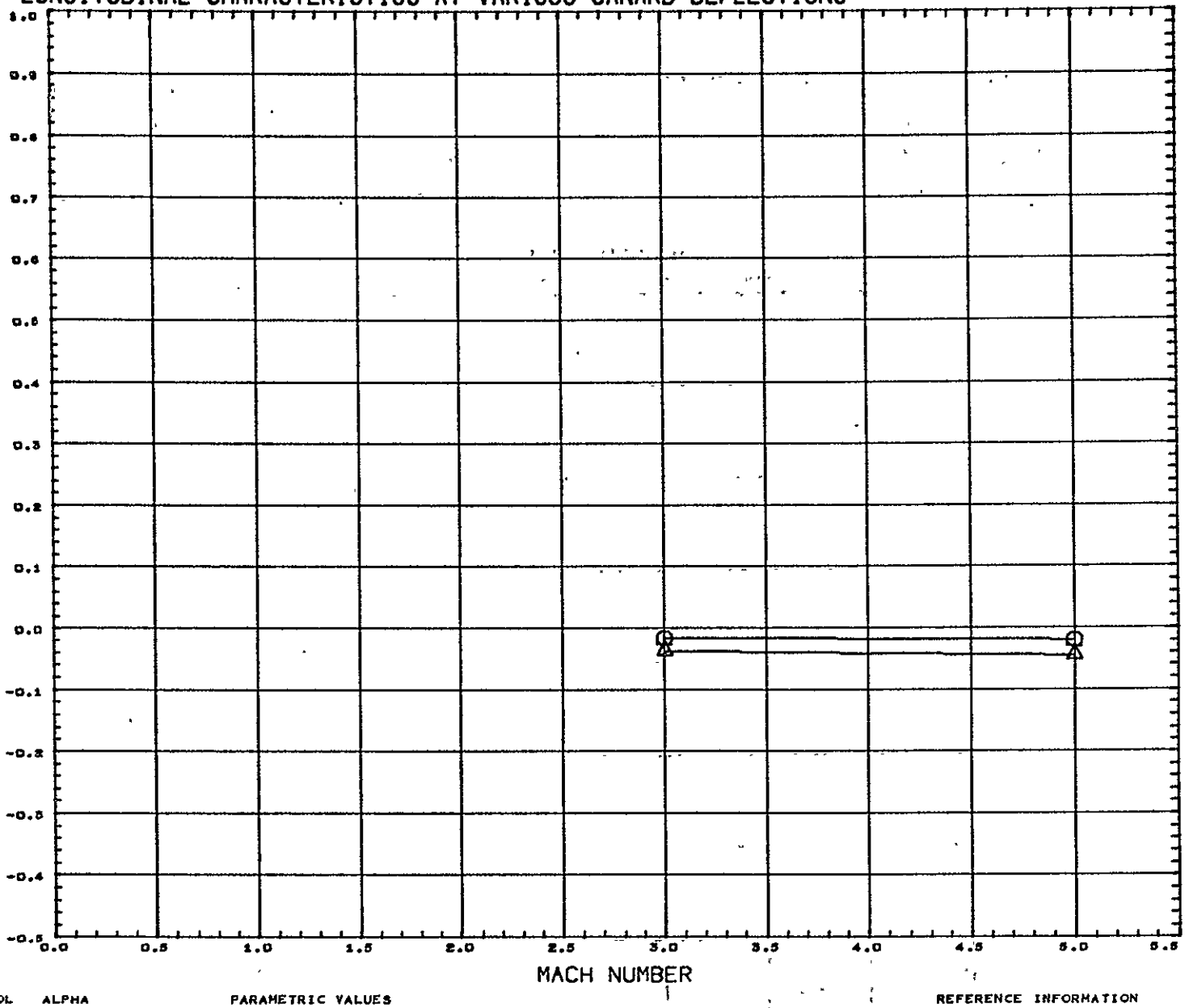
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE HVR*E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

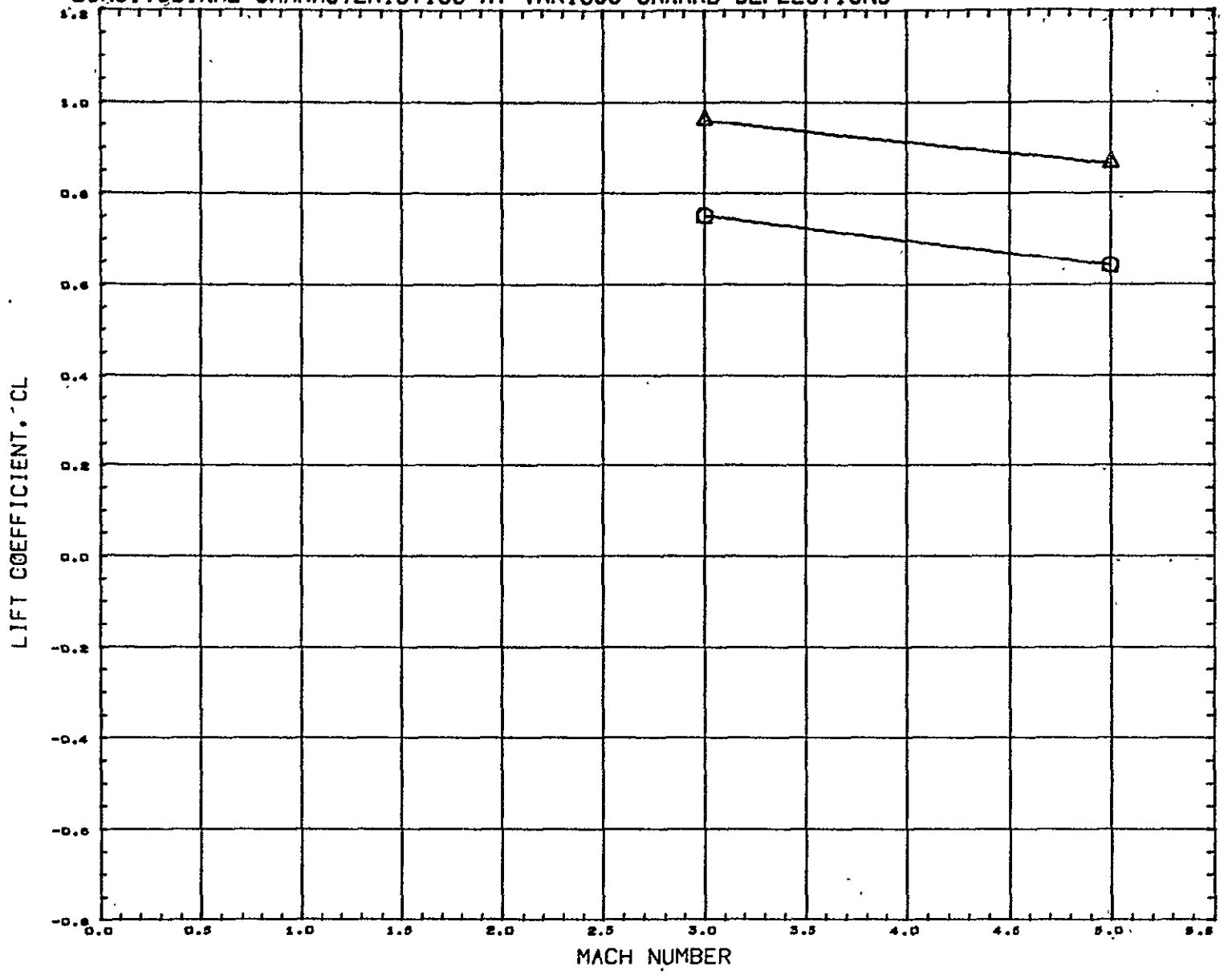
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
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△	40.000

PARAMETRIC VALUES

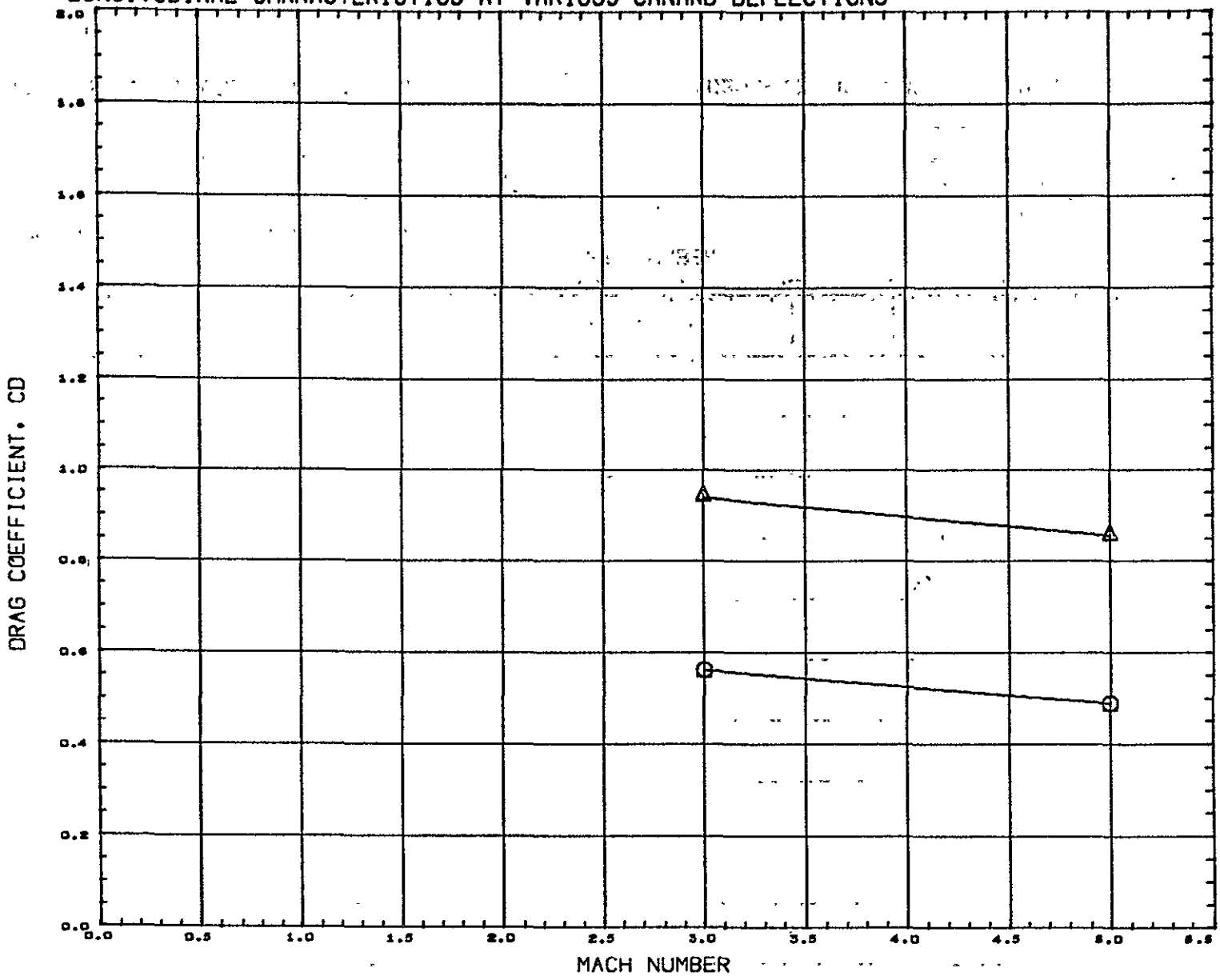
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

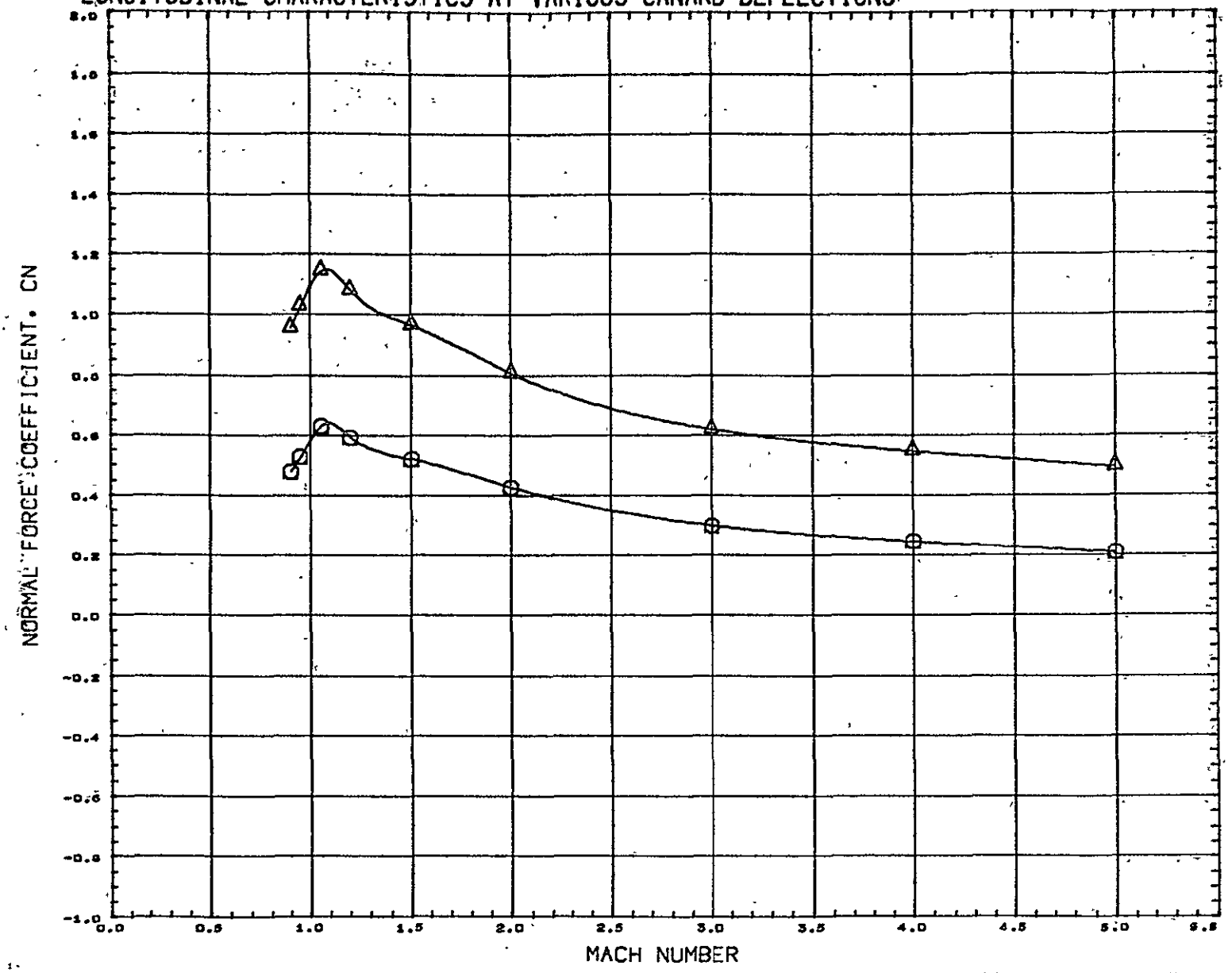
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVCN	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

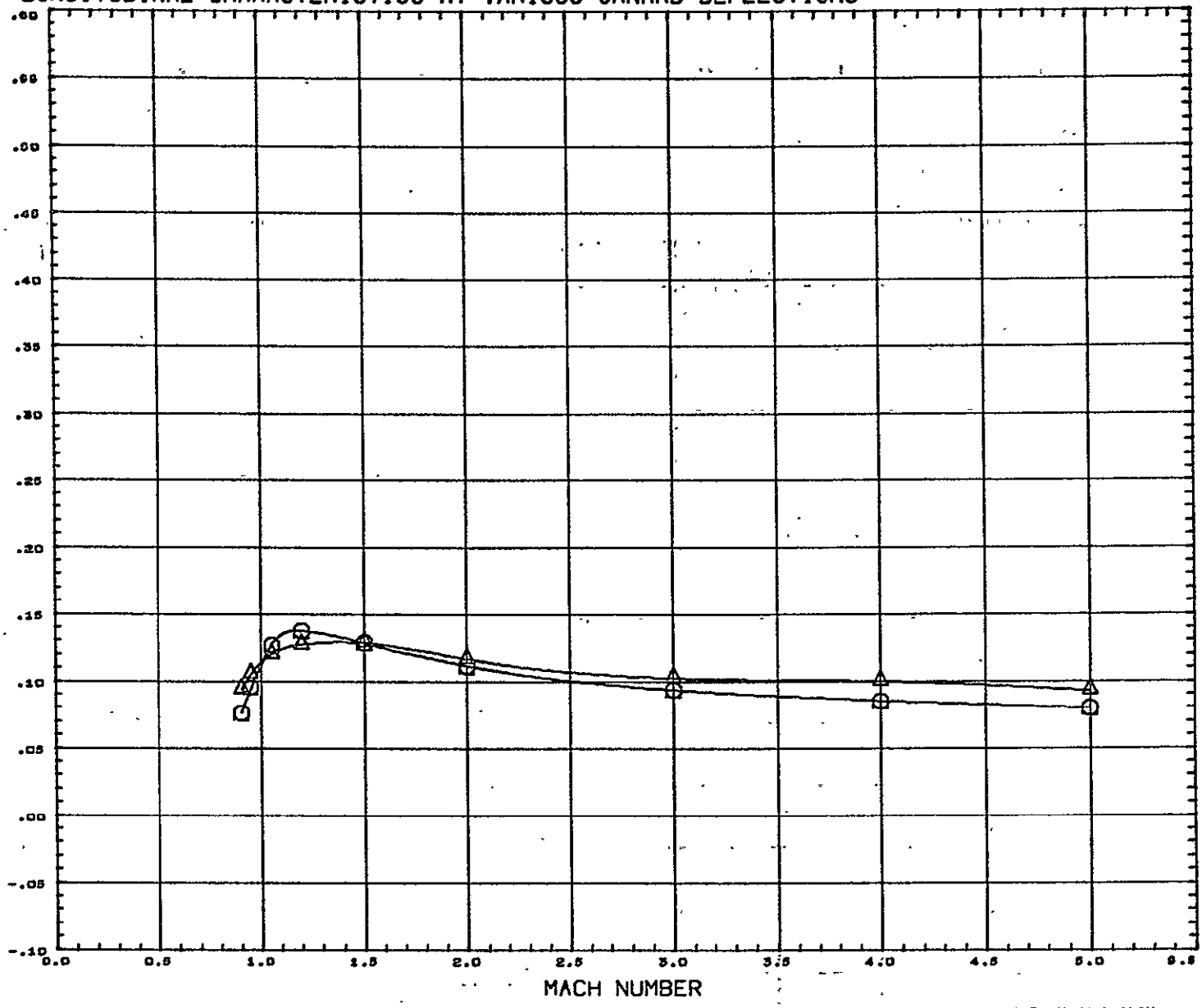
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

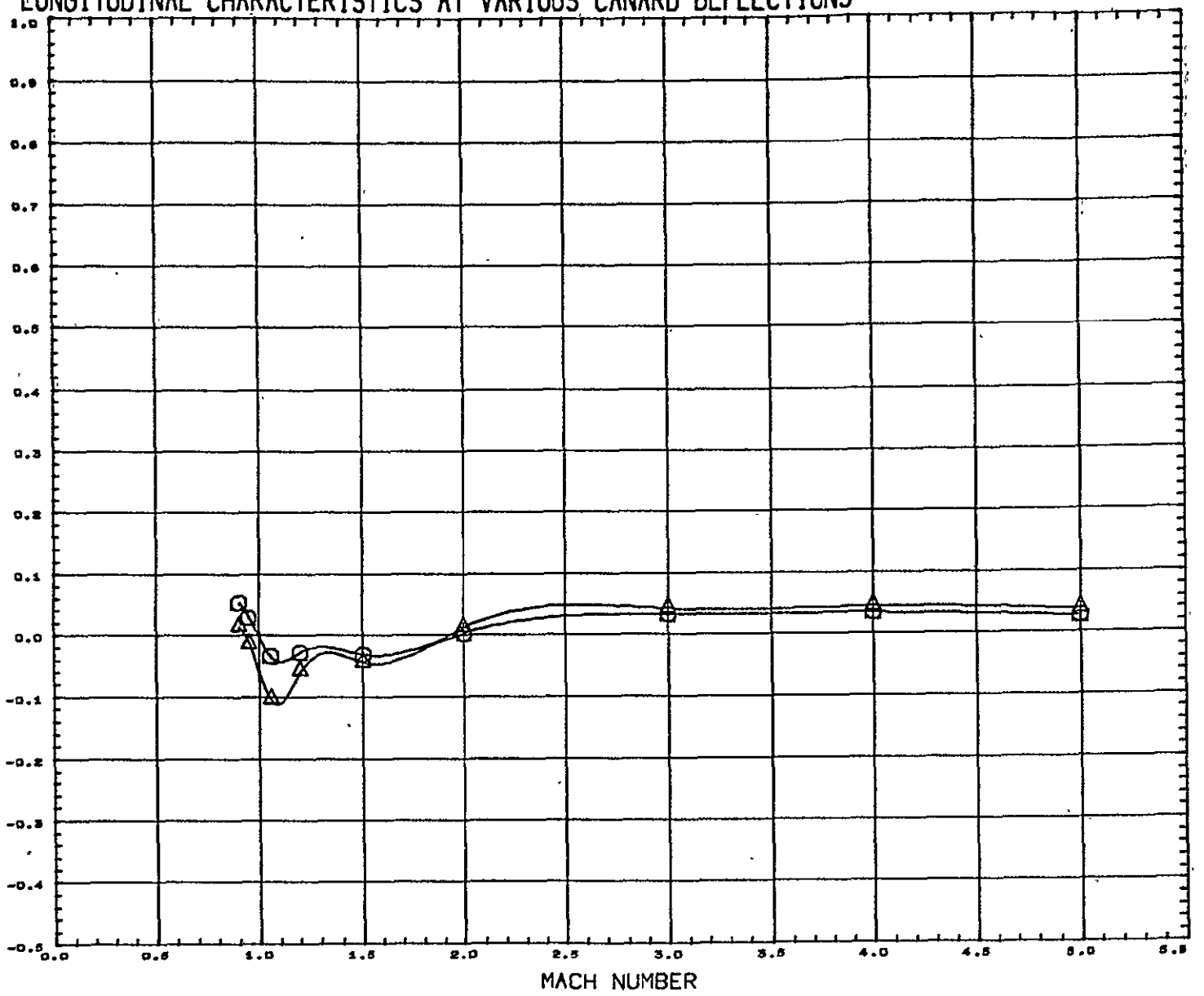
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR9EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

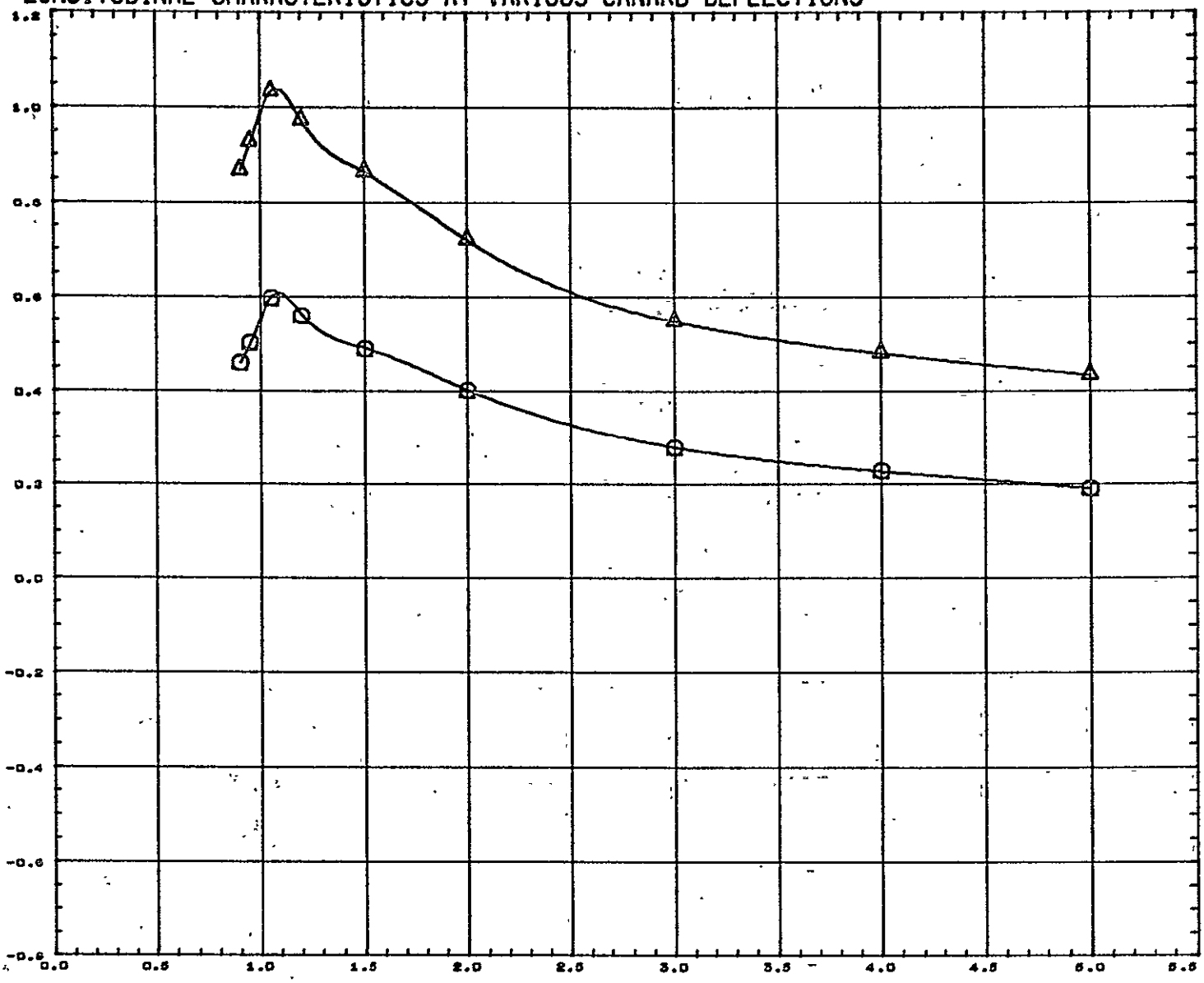
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR4EI

REFERENCE INFORMATION

SREF	15.8560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

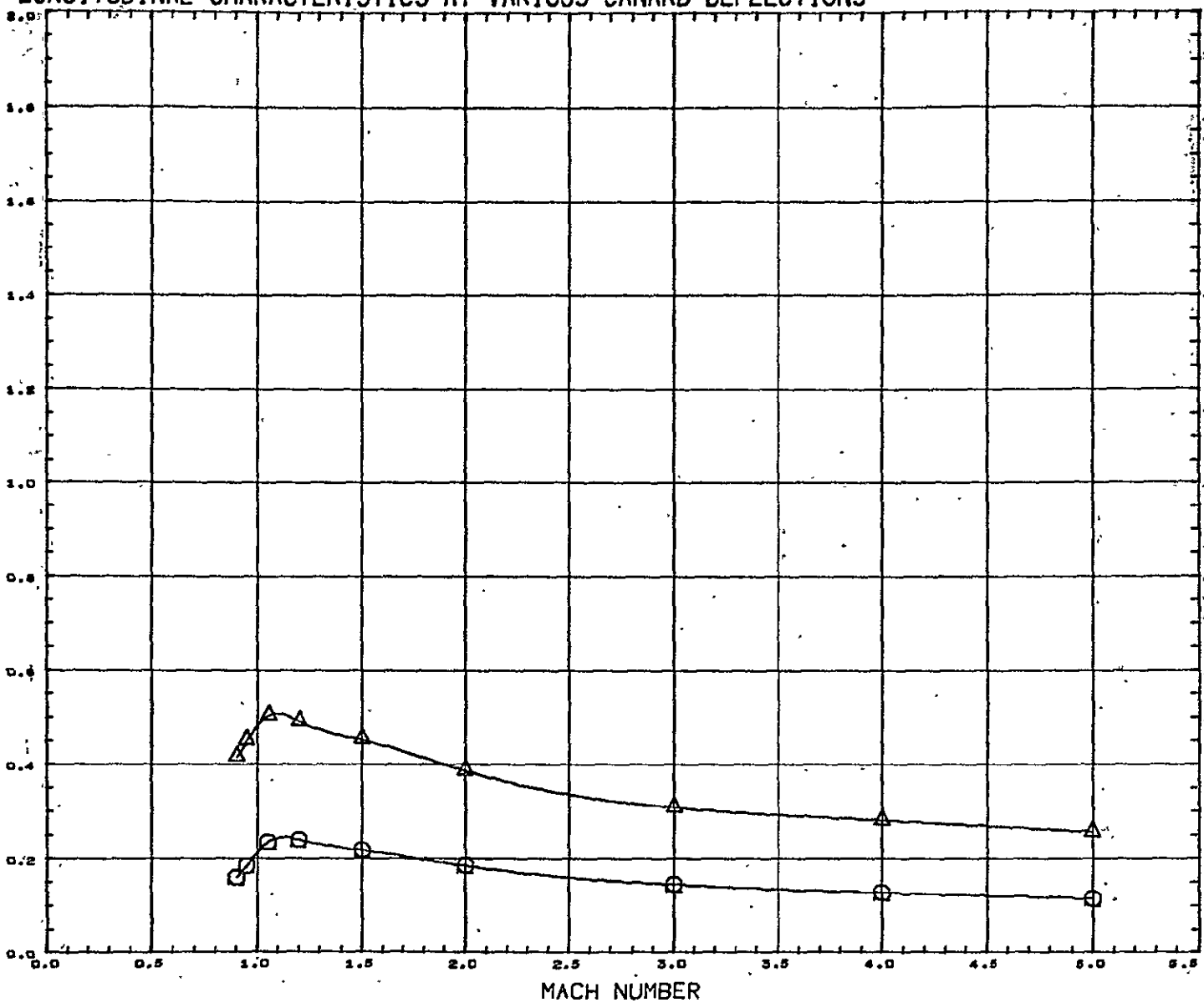
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR#EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS

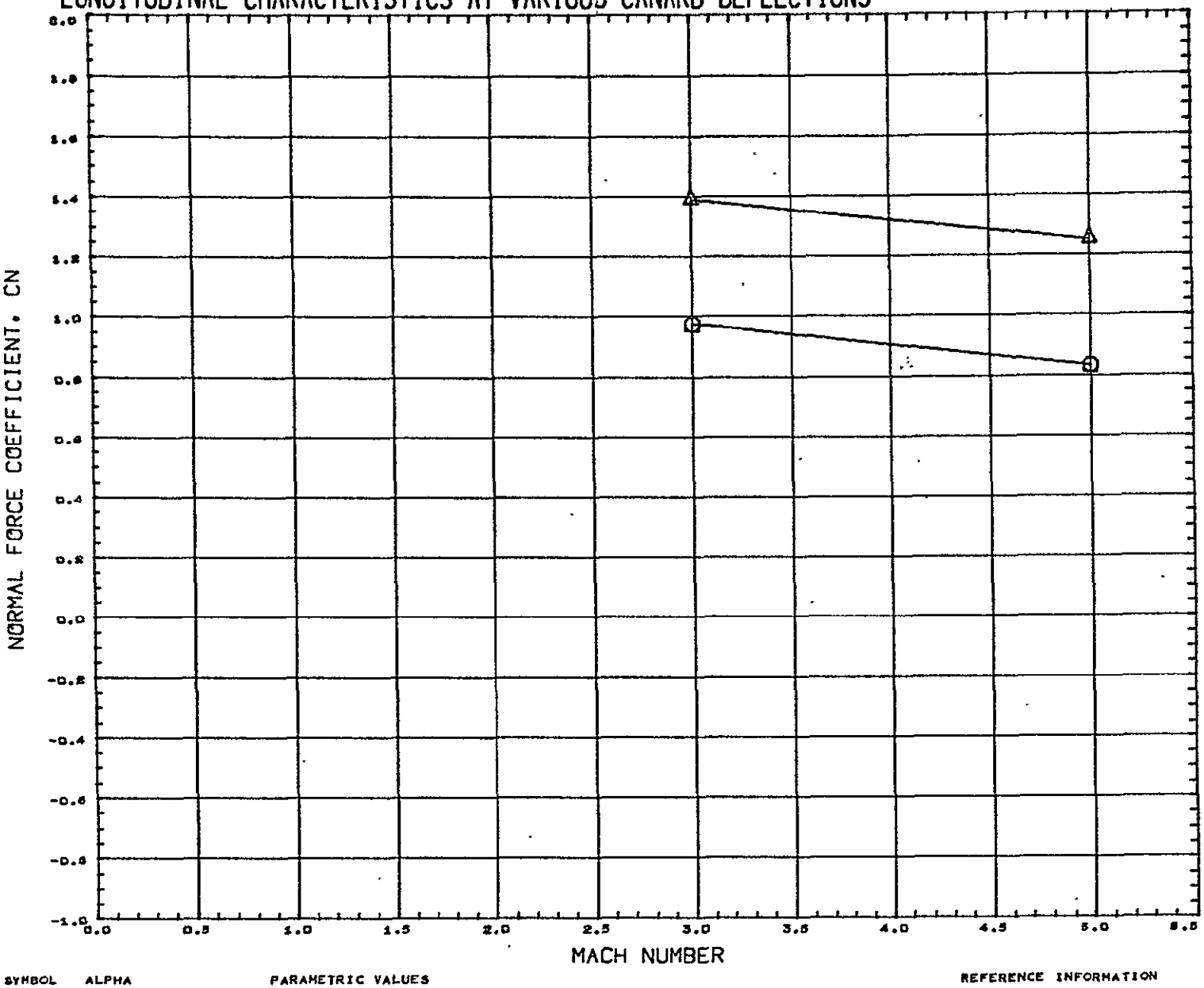


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	DCL	15.000
		DCR	15.000	ELEVON	0.000
		CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

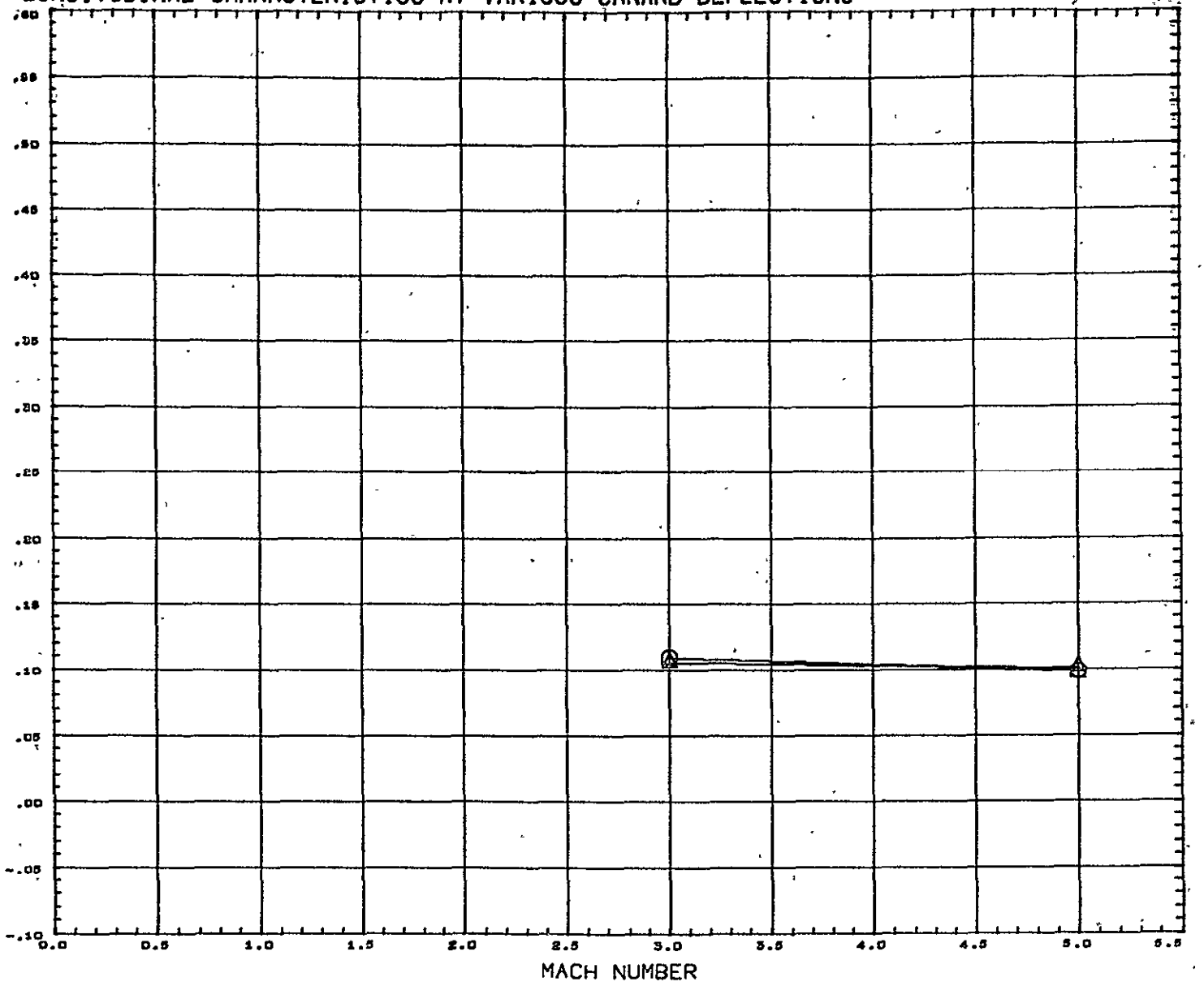
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

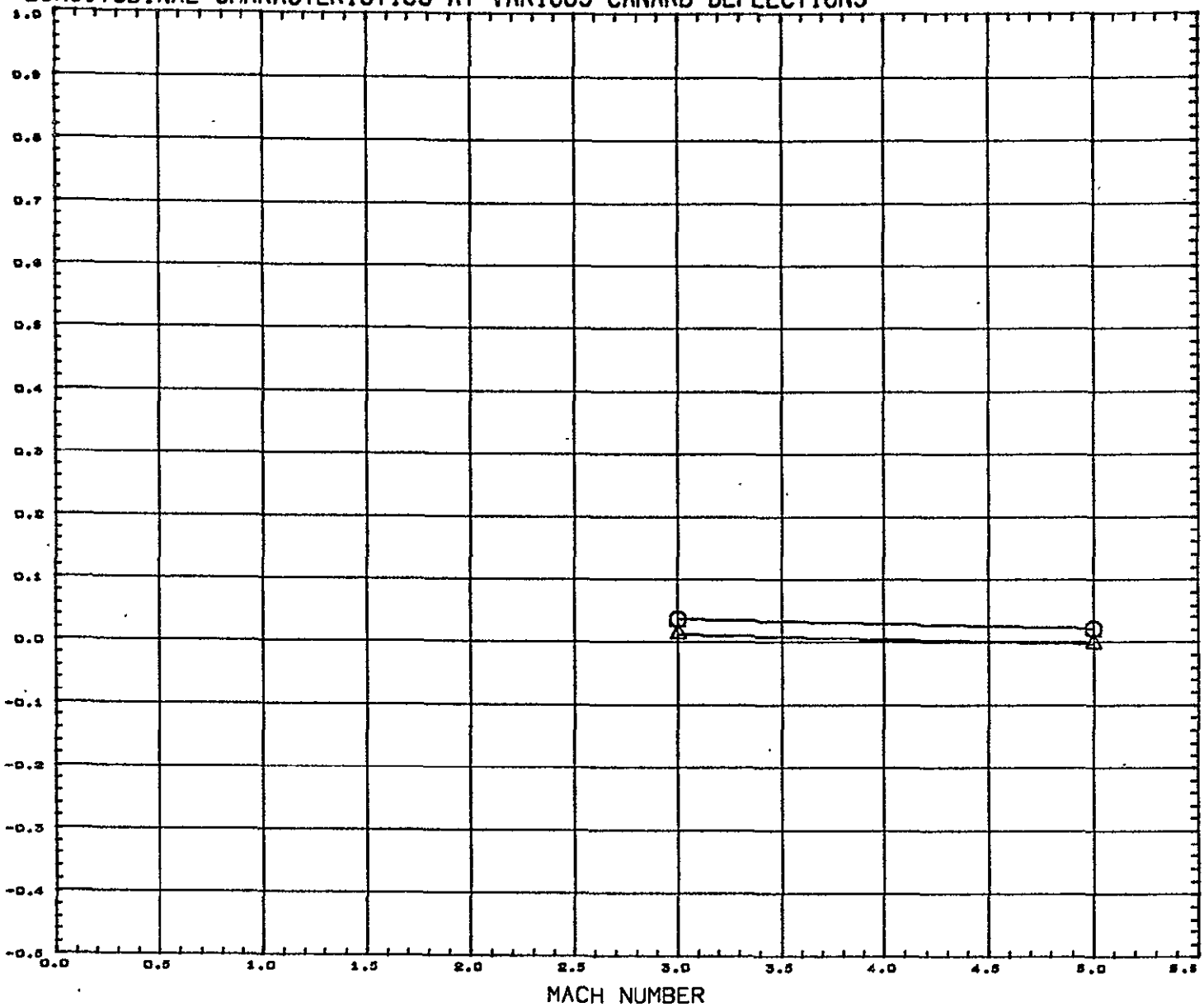
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR*E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

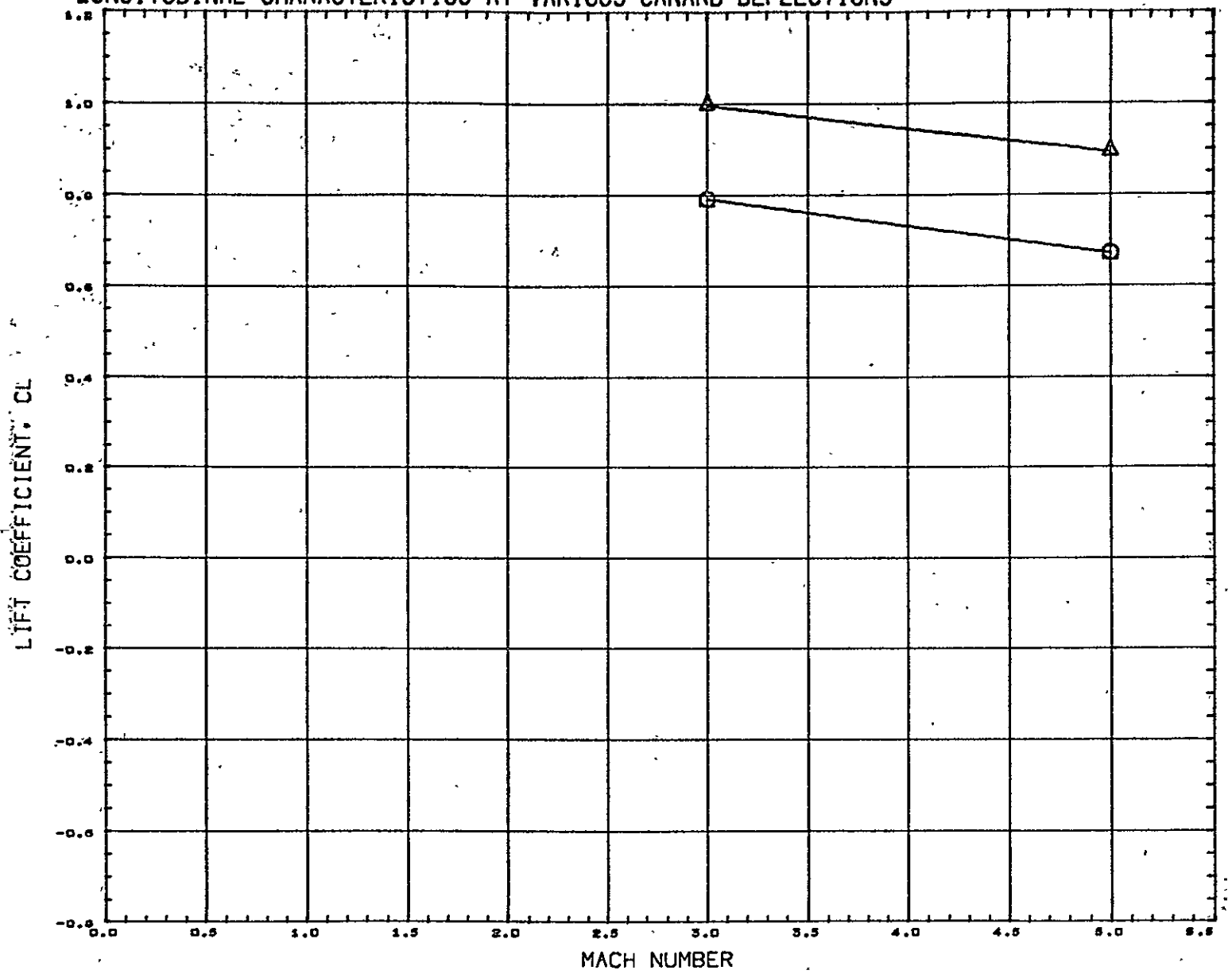
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR#E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

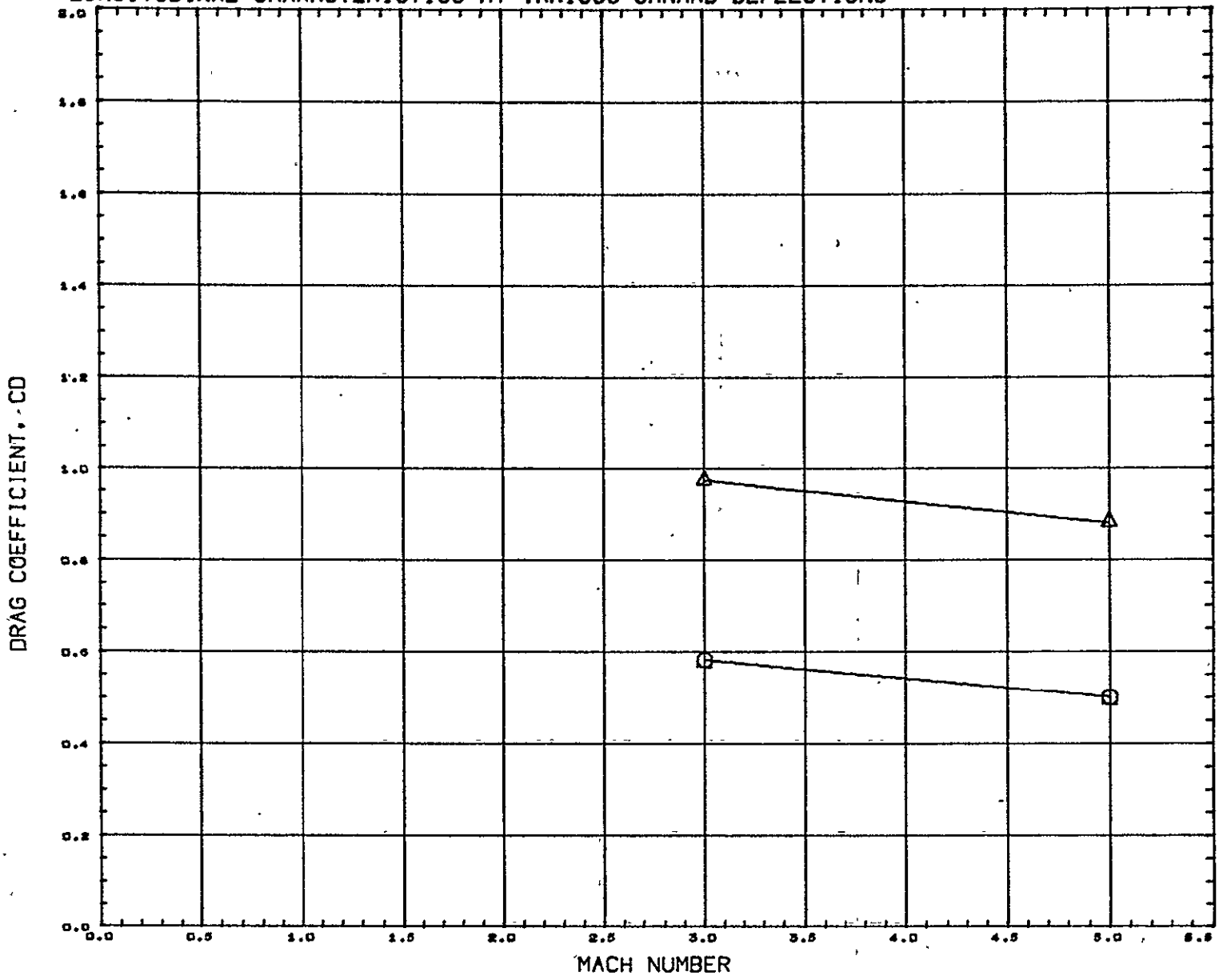
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
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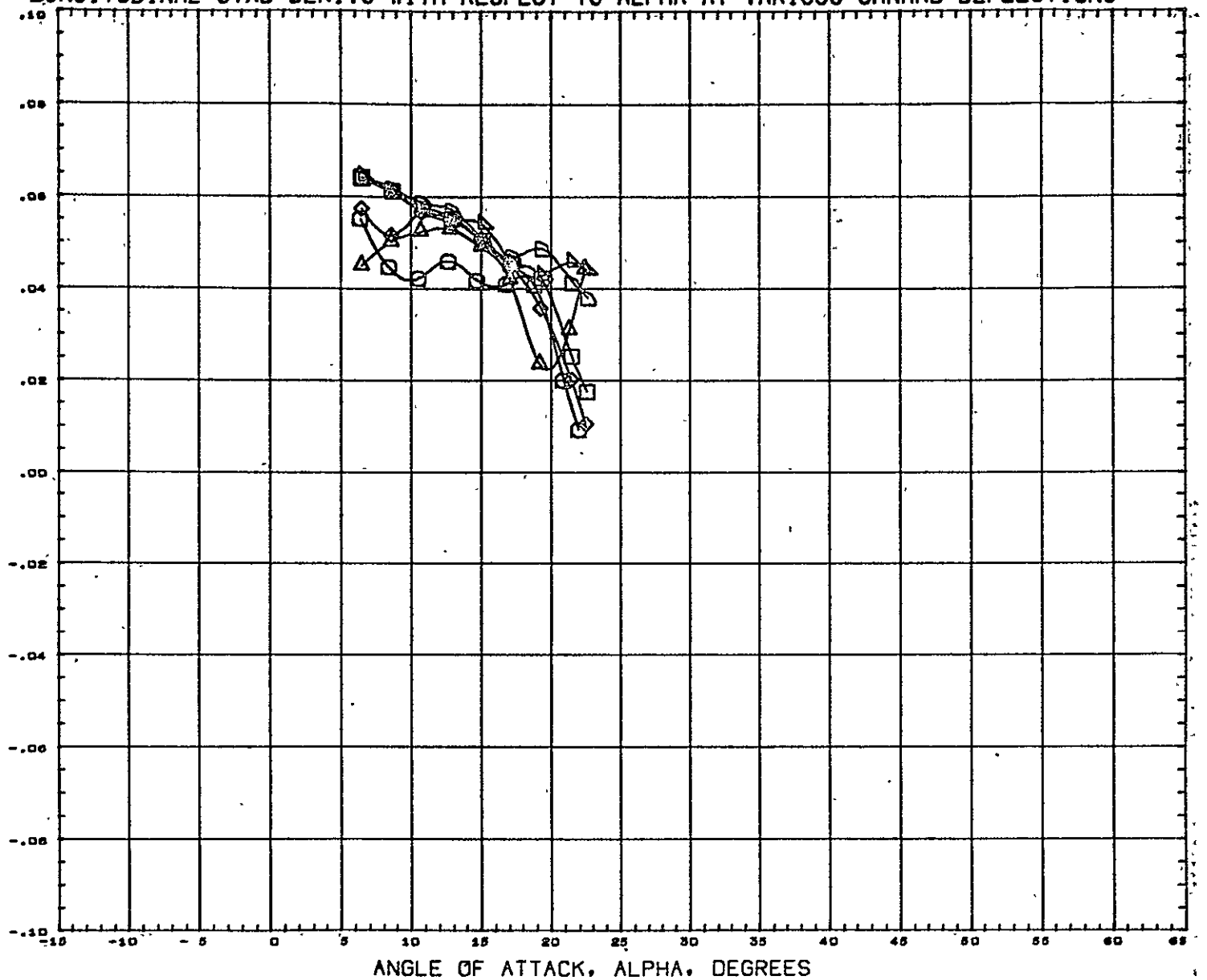
△	40.000

PARAMETRIC VALUES			
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR#EI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

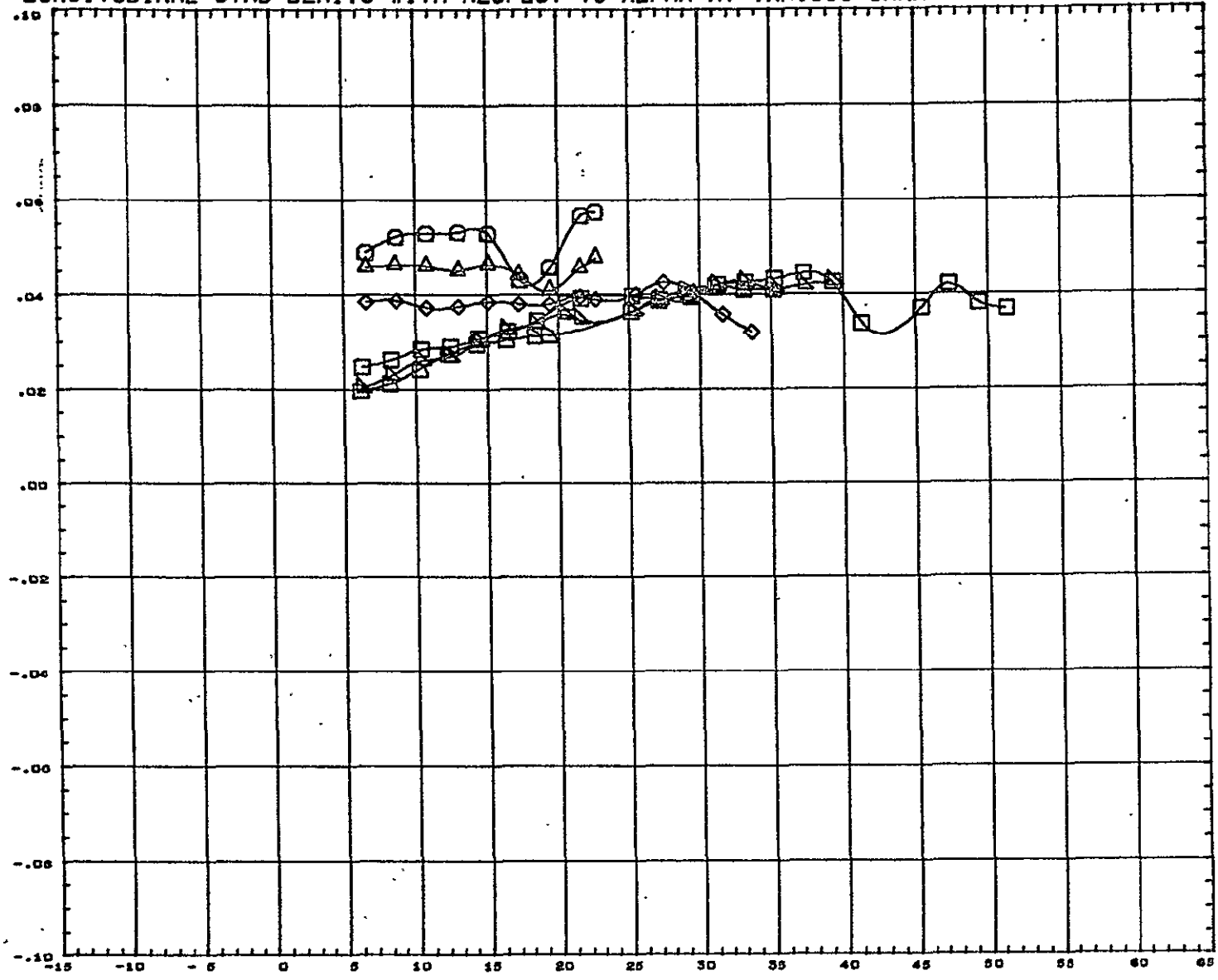
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.607	BETA	0.000	DEL	0.000
△	0.900	DER	0.000	DCL	0.000
□	0.954	DCR	0.000	ELEVON	0.000
◇	1.007	CANARD	0.000	AILRON	0.000
▽	1.051				
▷	1.105	DATA HIST. CODE		MVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
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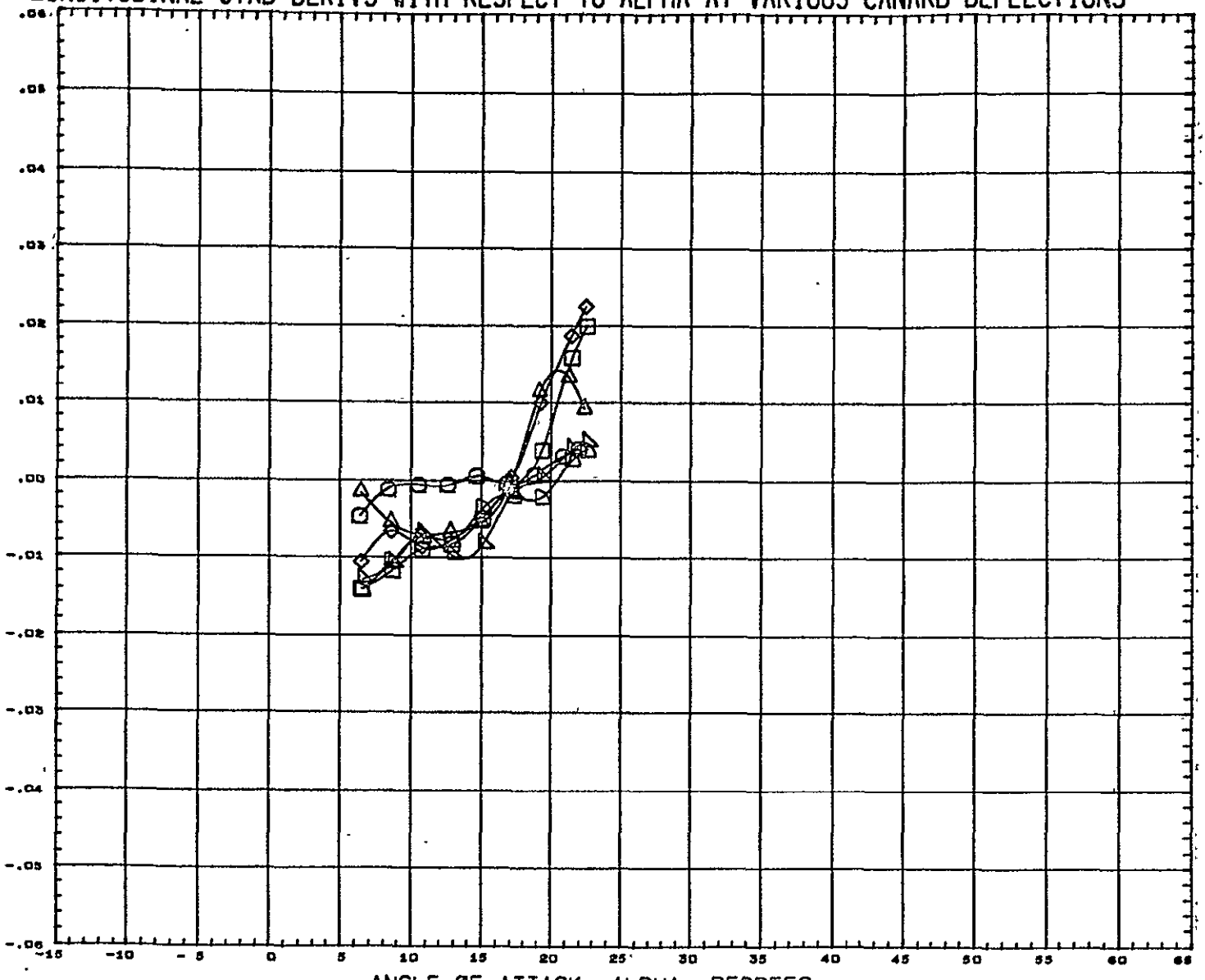
△	1.462	DER	0.000	DCL	0.000
◇	1.958	DCR	0.000	ELEVON	0.000
□	2.990	CANARD	0.000	AILRON	0.000
▽	4.000				
	4.960	DATA HIST. CODE	HVR*E*GG		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

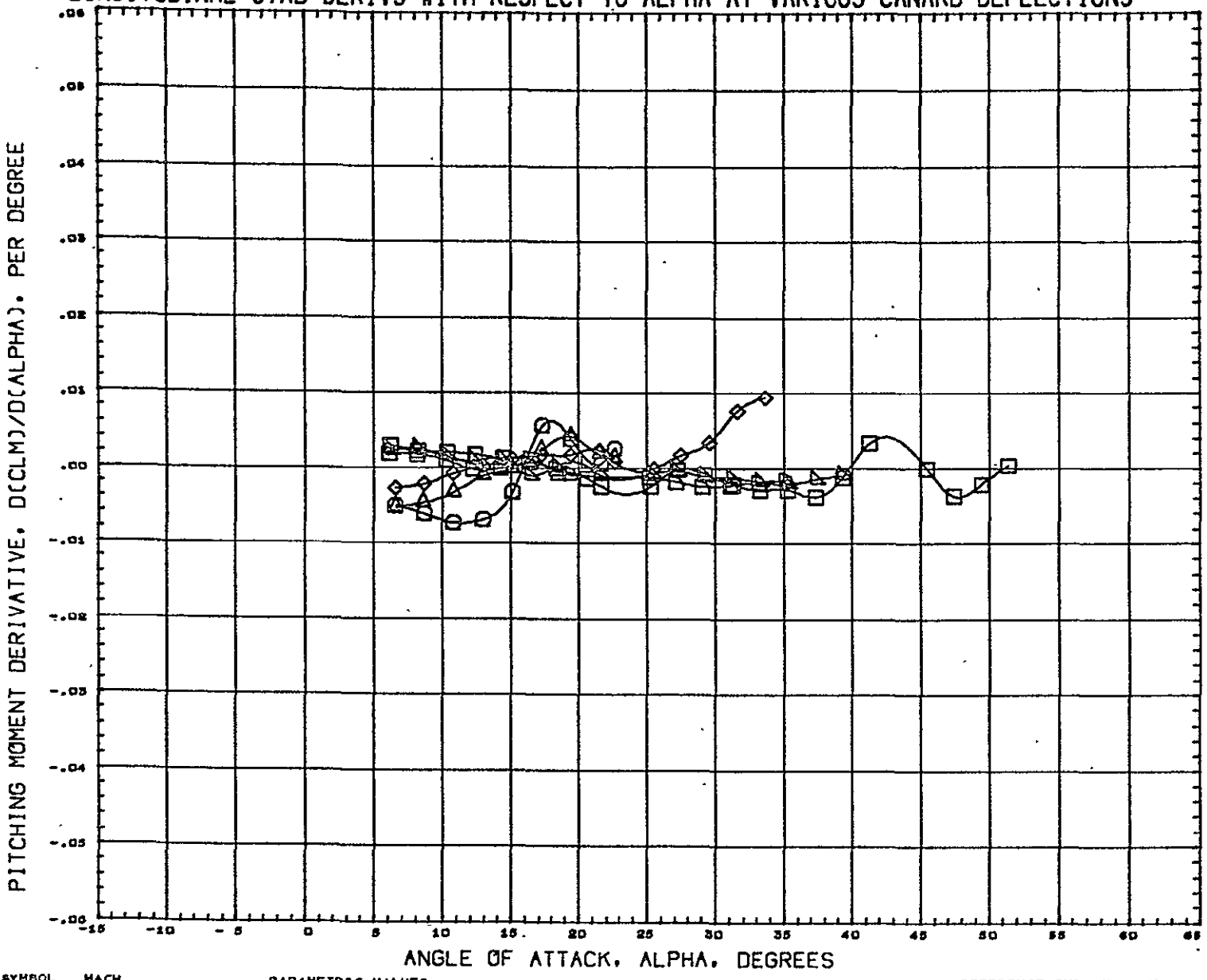


SYMBOL	MACH		PARAMETRIC VALUES		
○	0.607	BETA	0.000	DEL	0.000
△	0.900	DER	0.000	DCL	0.000
◇	0.954	DCR	0.000	ELEVON	0.000
□	1.007	CANARD	0.000	AILRON	0.000
▽	1.051				
▷	1.105	DATA HIST. CODE	MVR*E*GG		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	1.201	BETA	0.000	DEL	0.000
△	1.462	DER	0.000	DCL	0.000
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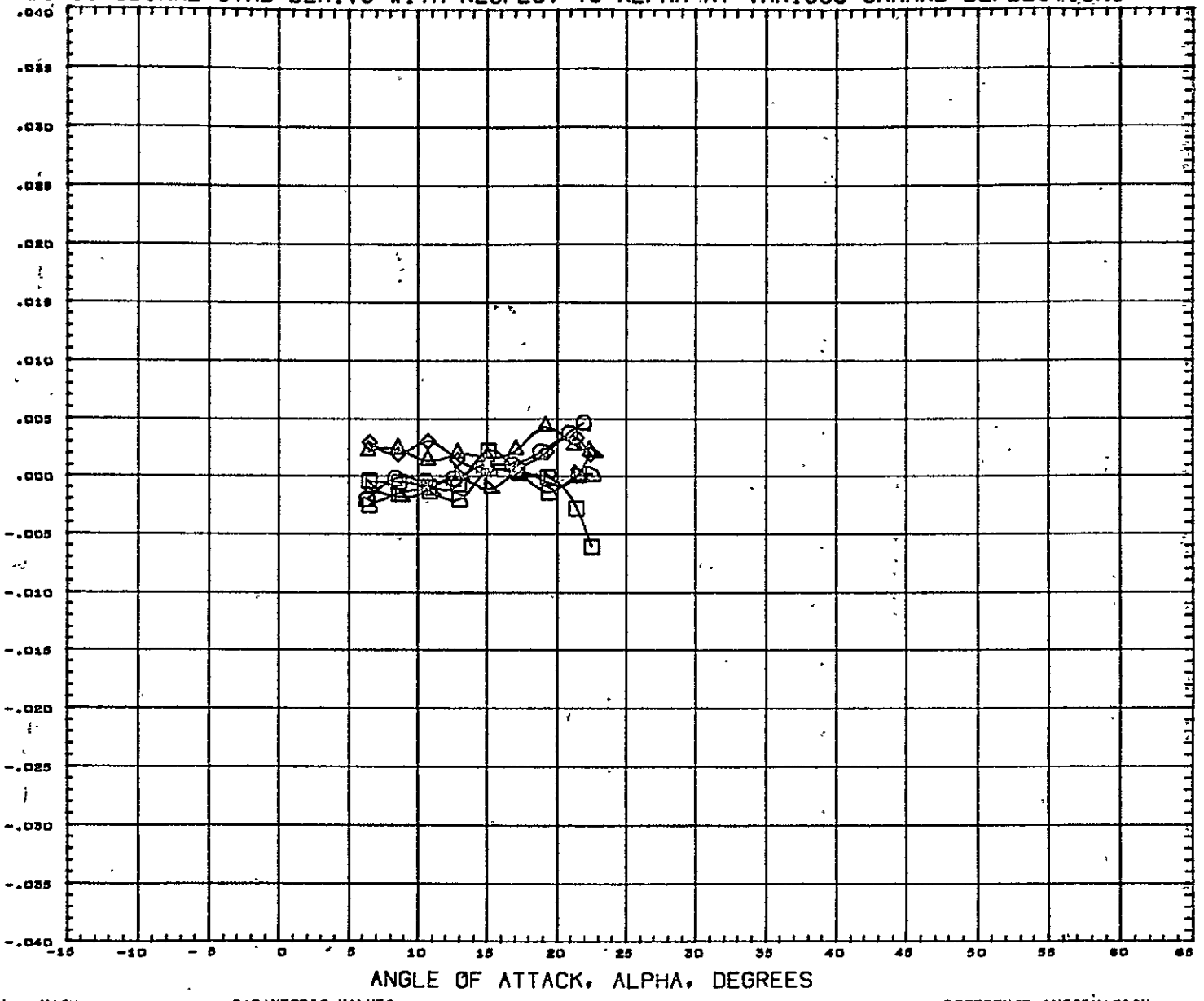
□	2.990	CANARD	0.000	AILRON	0.000
▽	4.000				
▷	4.960	DATA HIST. CODE		MVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

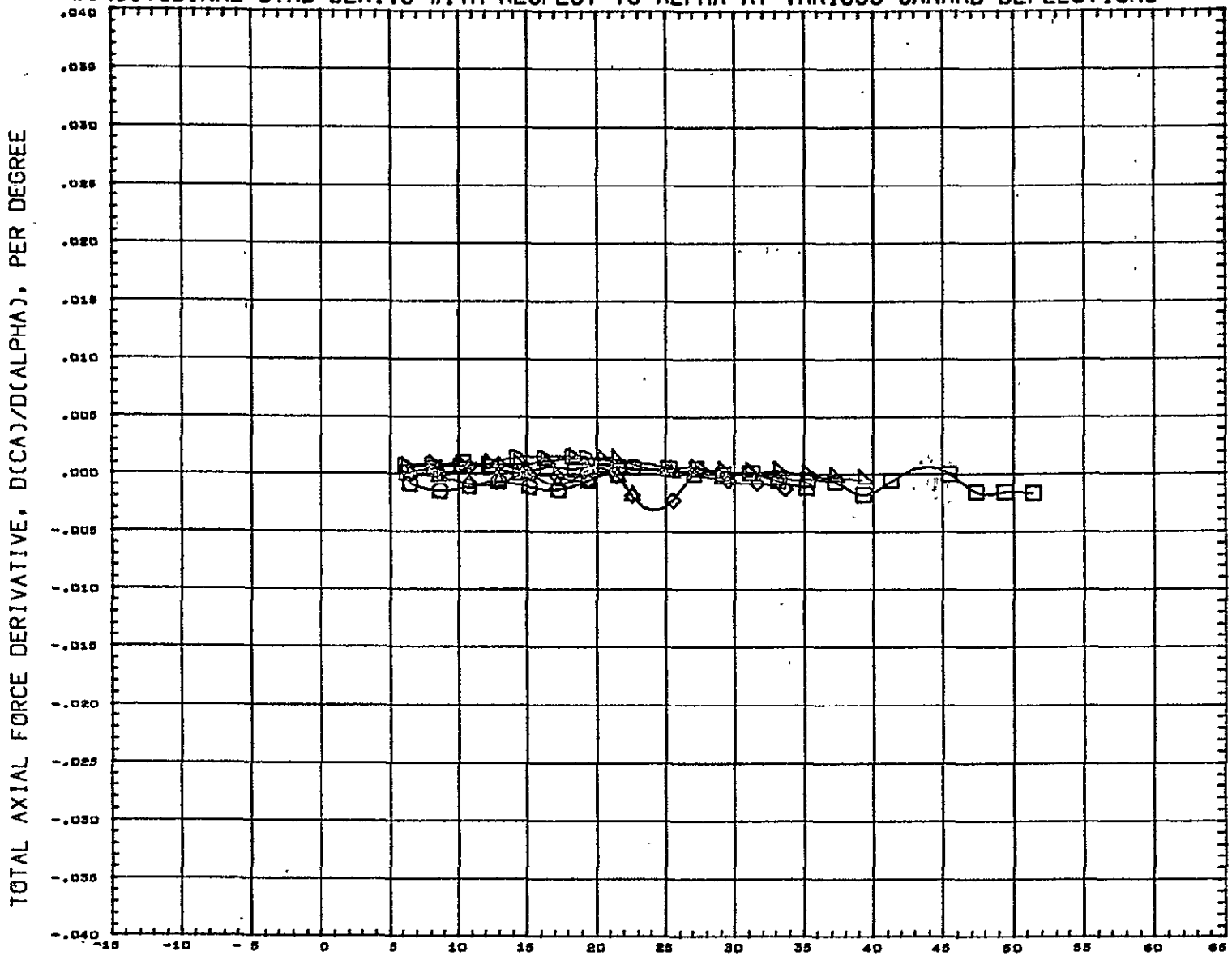
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.607	BETA	0.000	DEL	0.000
△	0.900	DER	0.000	DCL	0.000
◇	0.954	DCR	0.000	ELEVON	0.000
□	1.007	CANARD	0.000	AILRON	0.000
▽	1.051				
▷	1.105	DATA HIST. CODE	MVR*E*GG		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

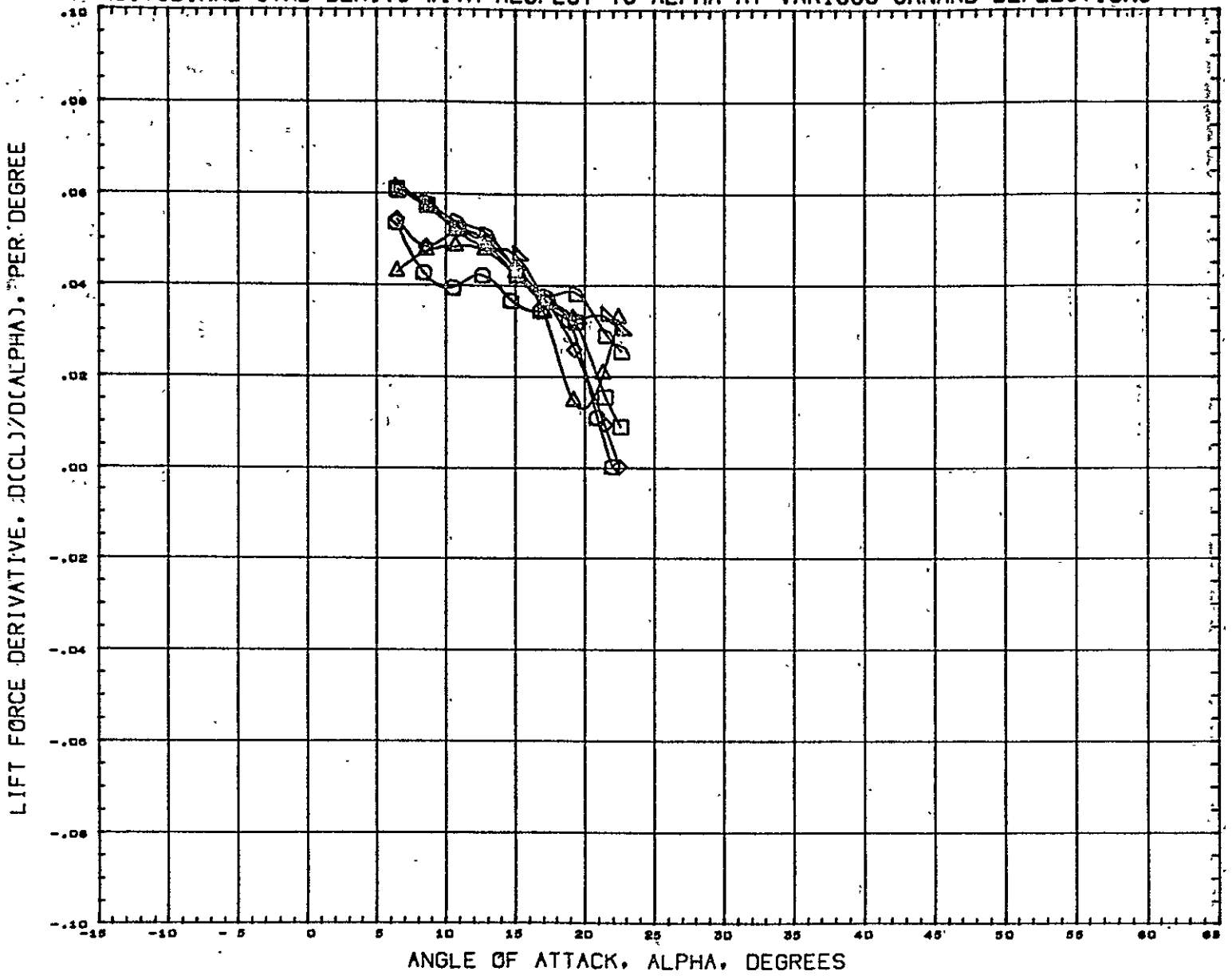
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	1.201	BETA	0.000	DEL	0.000
△	1.462	DER	0.000	DCL	0.000
◇	1.956	DCR	0.000	ELEVON	0.000
□	2.990	CANARD	0.000	AILRON	0.000
▽	4.000				
D	4.960	DATA HIST. CODE	MVR*E*GG		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

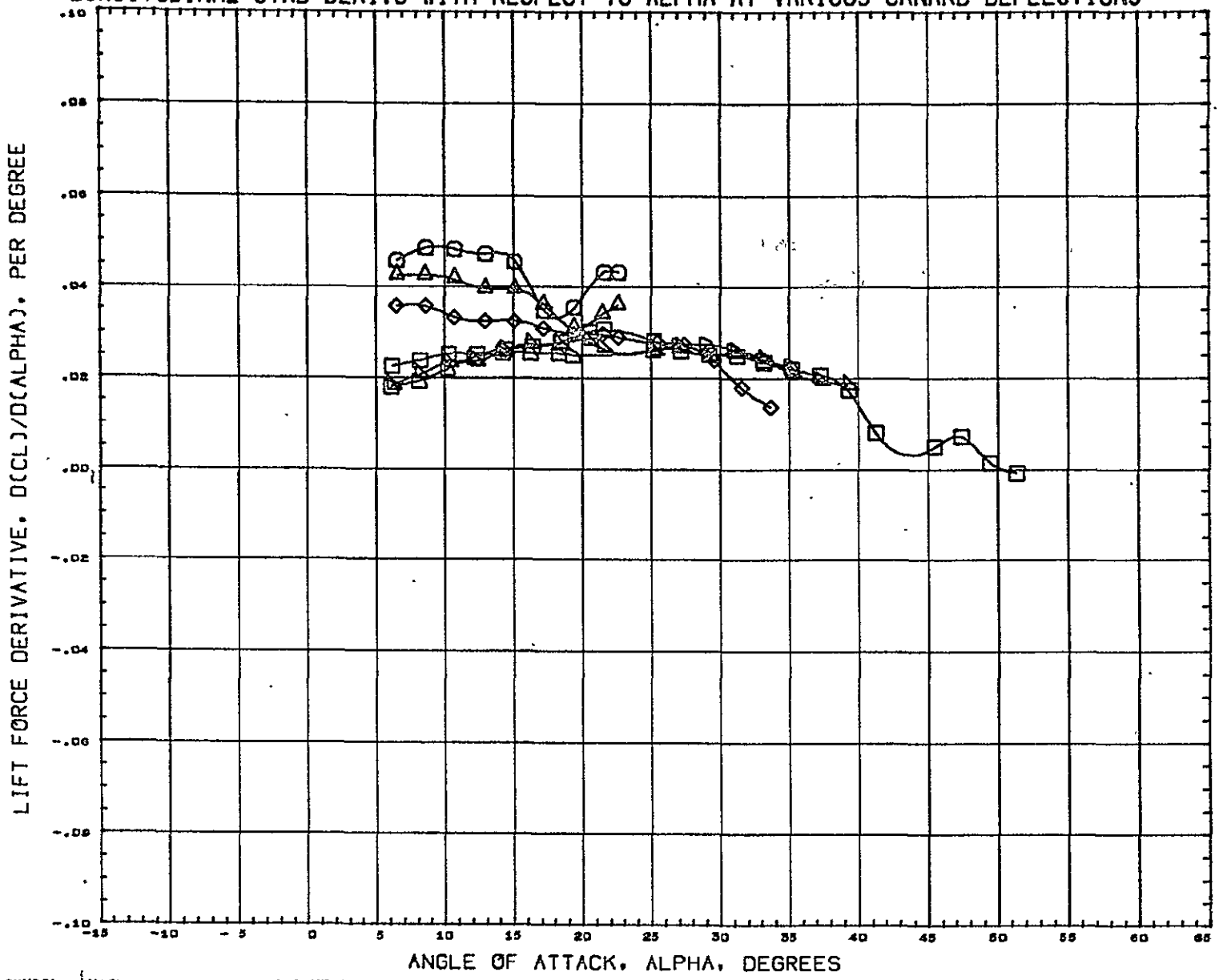
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.607	BETA	0.000	DEL	0.000
△	0.900	DER	0.000	DCL	0.000
□	0.954	DCR	0.000	ELEVON	0.000
◇	1.007	CANARD	0.000	AILRON	0.000
▽	1.051				
▷	1.105	DATA HIST. CODE	MVR*E*GG		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0900	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

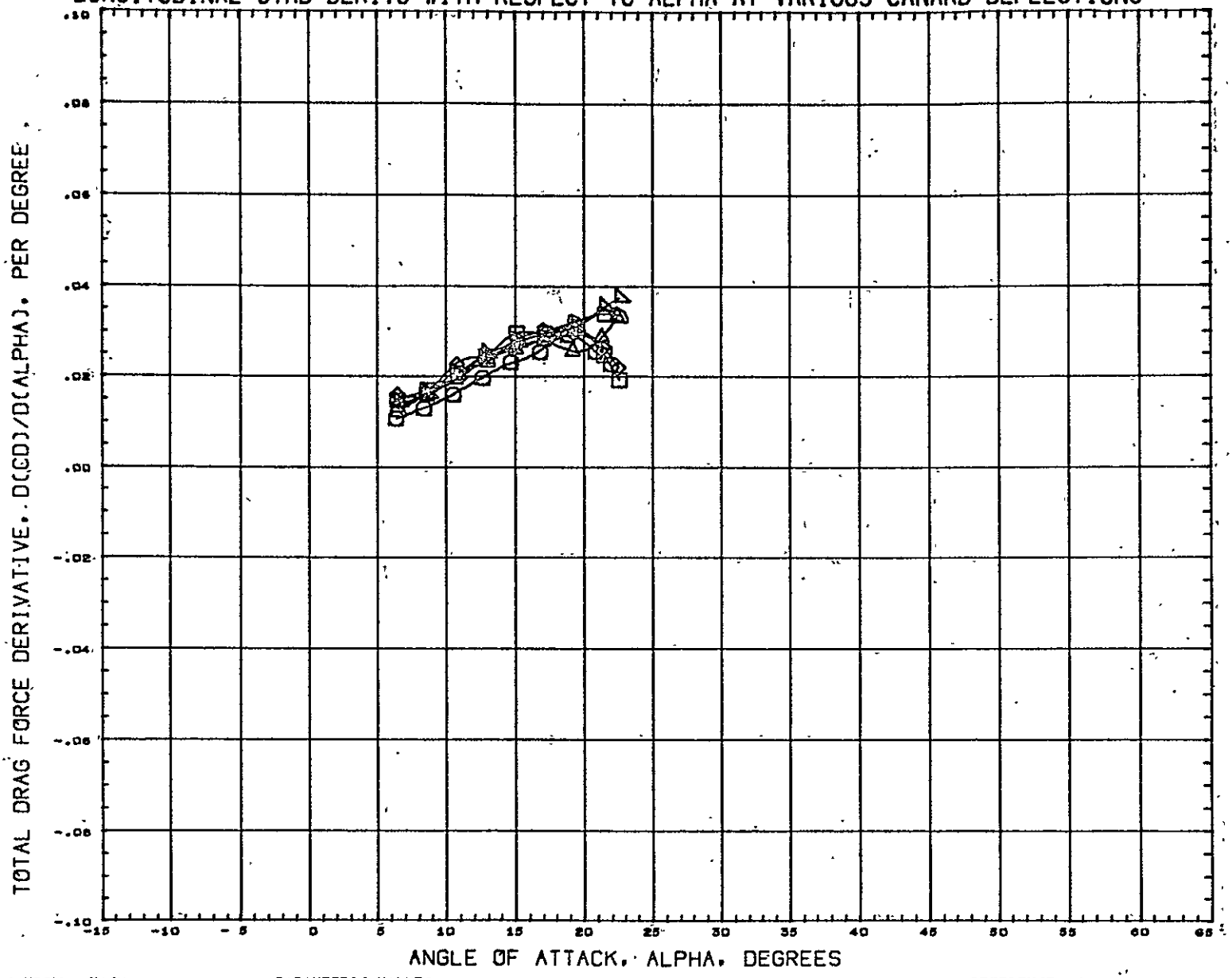
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	1.201	BETA	0.000	DEL	0.000
△	1.462	DER	0.000	DCL	0.000
◇	1.956	DCR	0.000	ELEVON	0.000
□	2.990	CANARD	0.000	AILRON	0.000
▽	4.000				
D	4.060	DATA HIST. CODE	MVR*E*GG		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

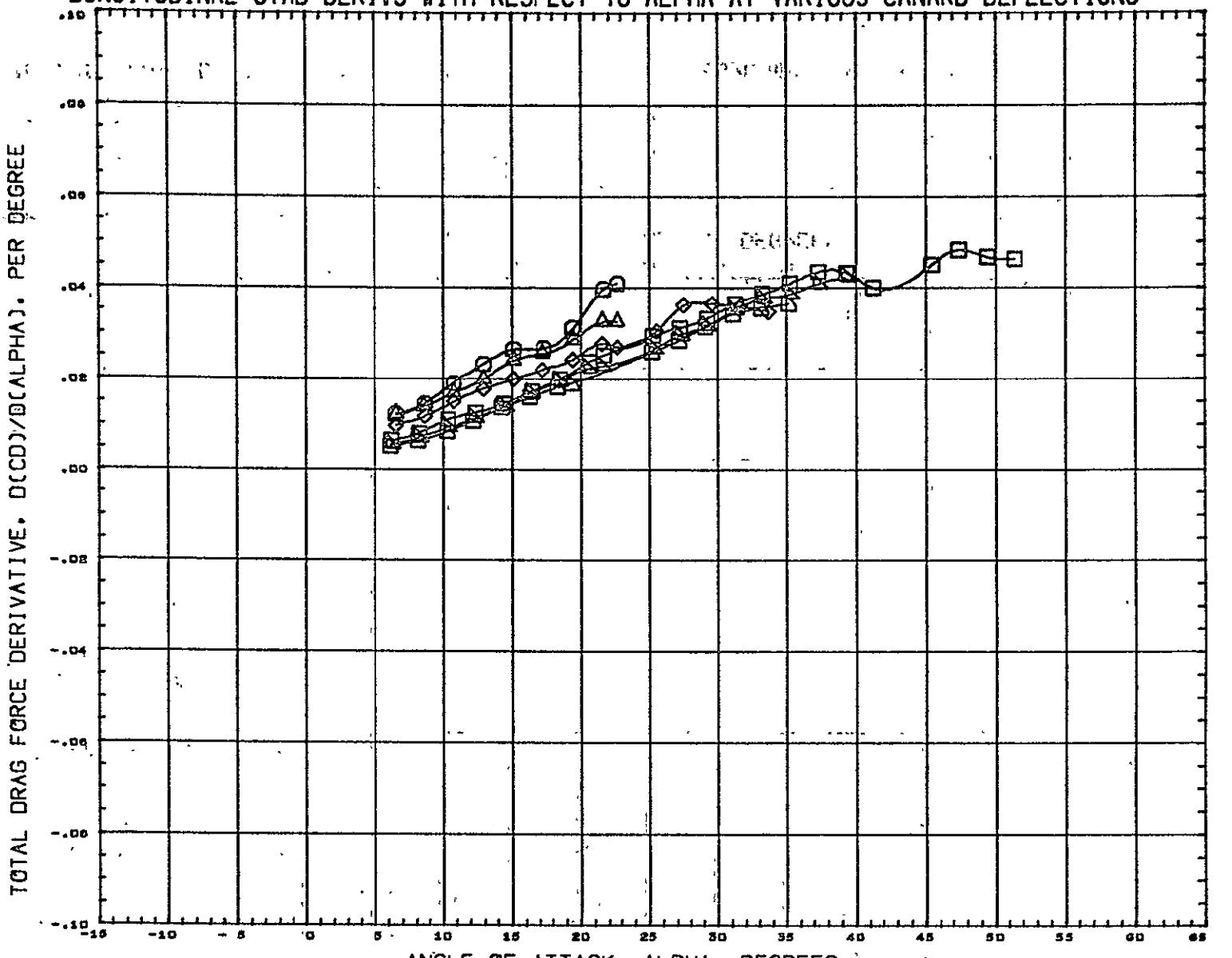
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.607	BETA	0.000	DEL	0.000
△	0.900	DER	0.000	DCL	0.000
◇	0.954	DCR	0.000	ELEVON	0.000
□	1.007	CANARD	0.000	AILRON	0.000
▽	1.051				
▷	1.105	DATA HIST. CODE	HVR*E*GG		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH
○	1.201
△	1.462
◇	1.958
□	2.990
▽	4.000
⬠	4.960

PARAMETRIC VALUES

BETA	0.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

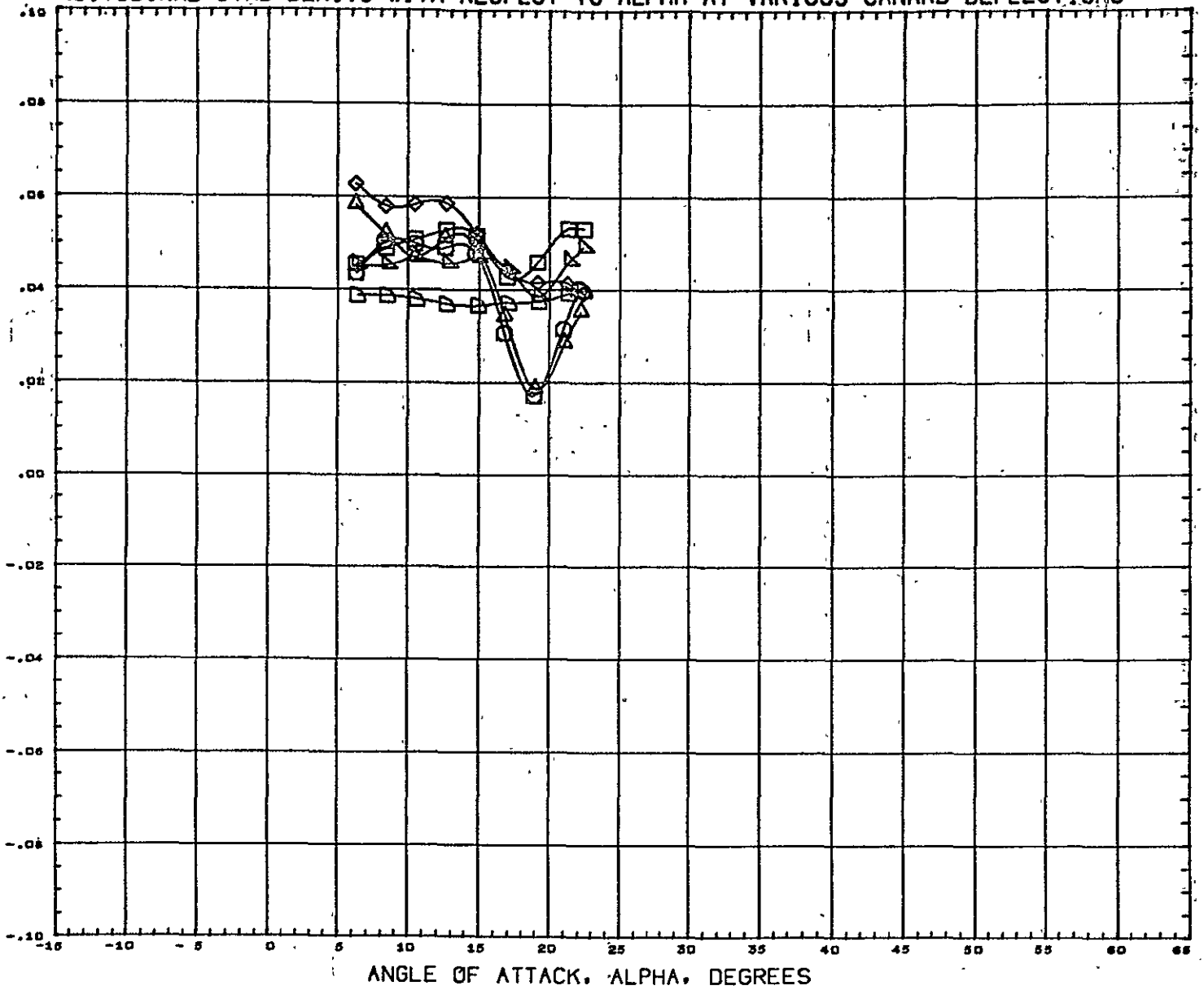
DATA HIST. CODE HVR#E#GG

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

120

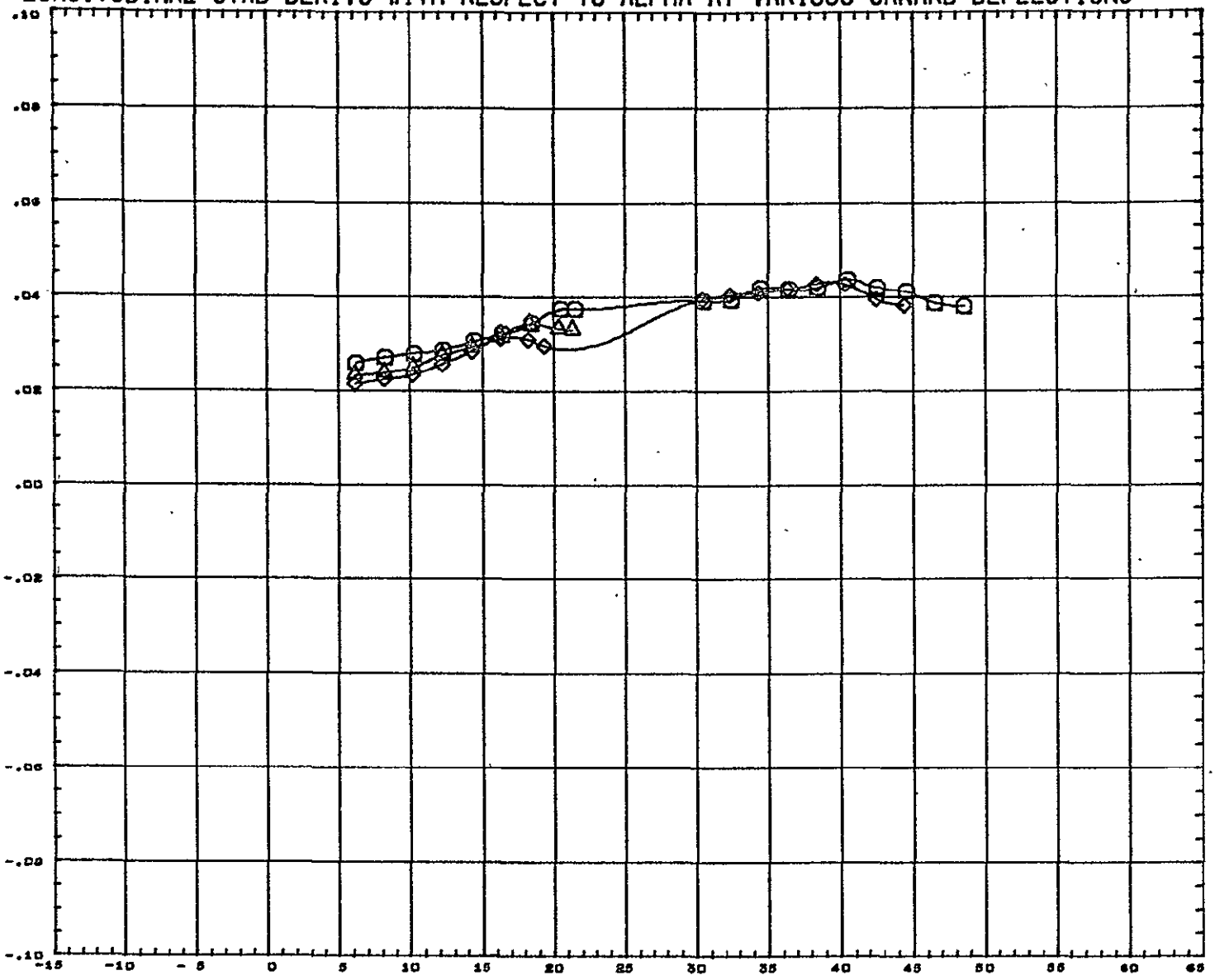
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.902	BETA	0.000	DEL	0.000
△	0.955	DER	0.000	DCL	- 30.000
◇	1.054	DCR	30.000	ELEVON	0.000
□	1.200	CANARD	- 30.000	AILRON	0.000
▽	1.464				
▷	1.962	DATA HIST. CODE		MVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

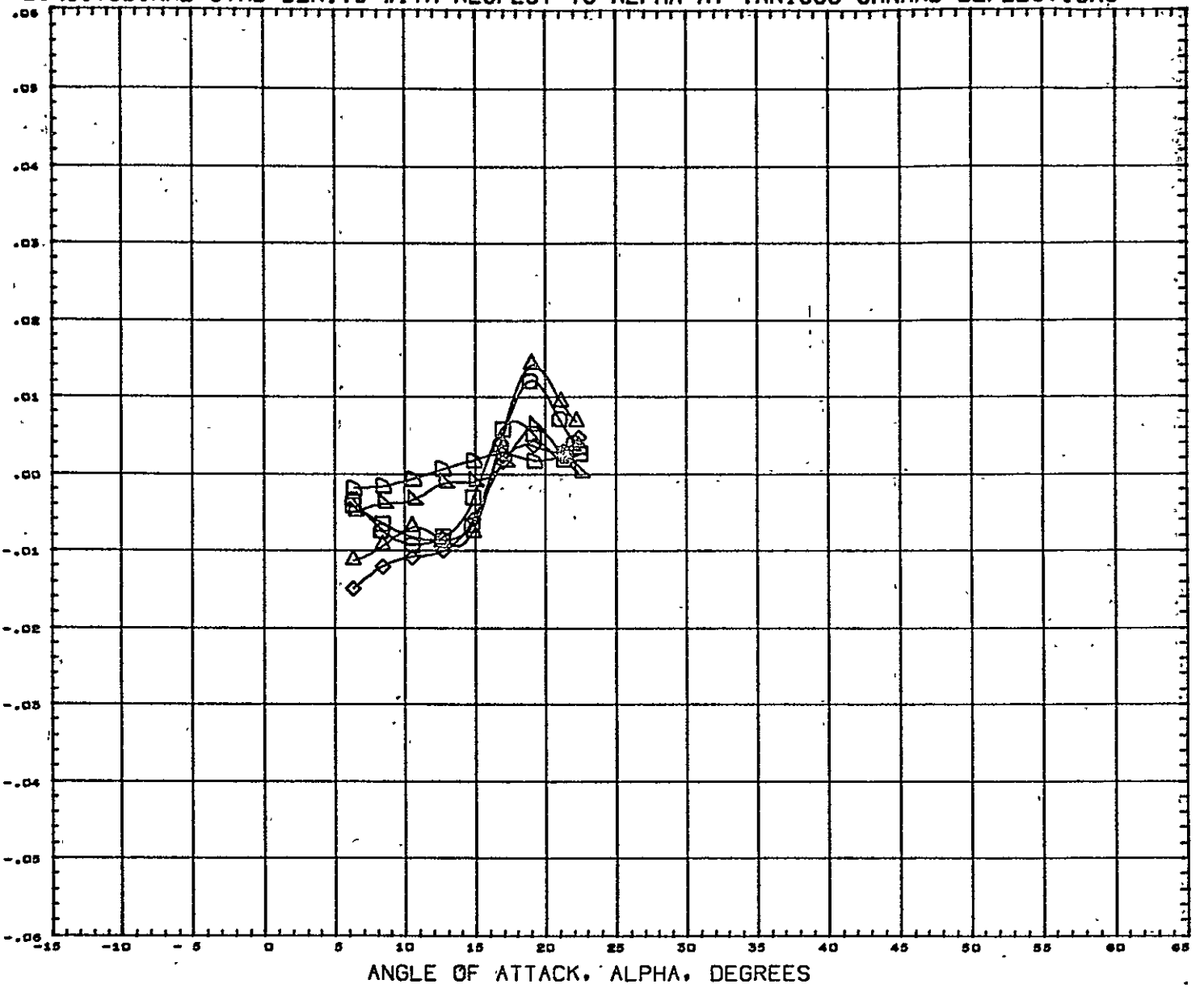


SYMBOL	MACH	PARAMETRIC VALUES			
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	- 30.000
◇	4.960	DCR	30.000	ELEVON	0.000
		CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*E*GG

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

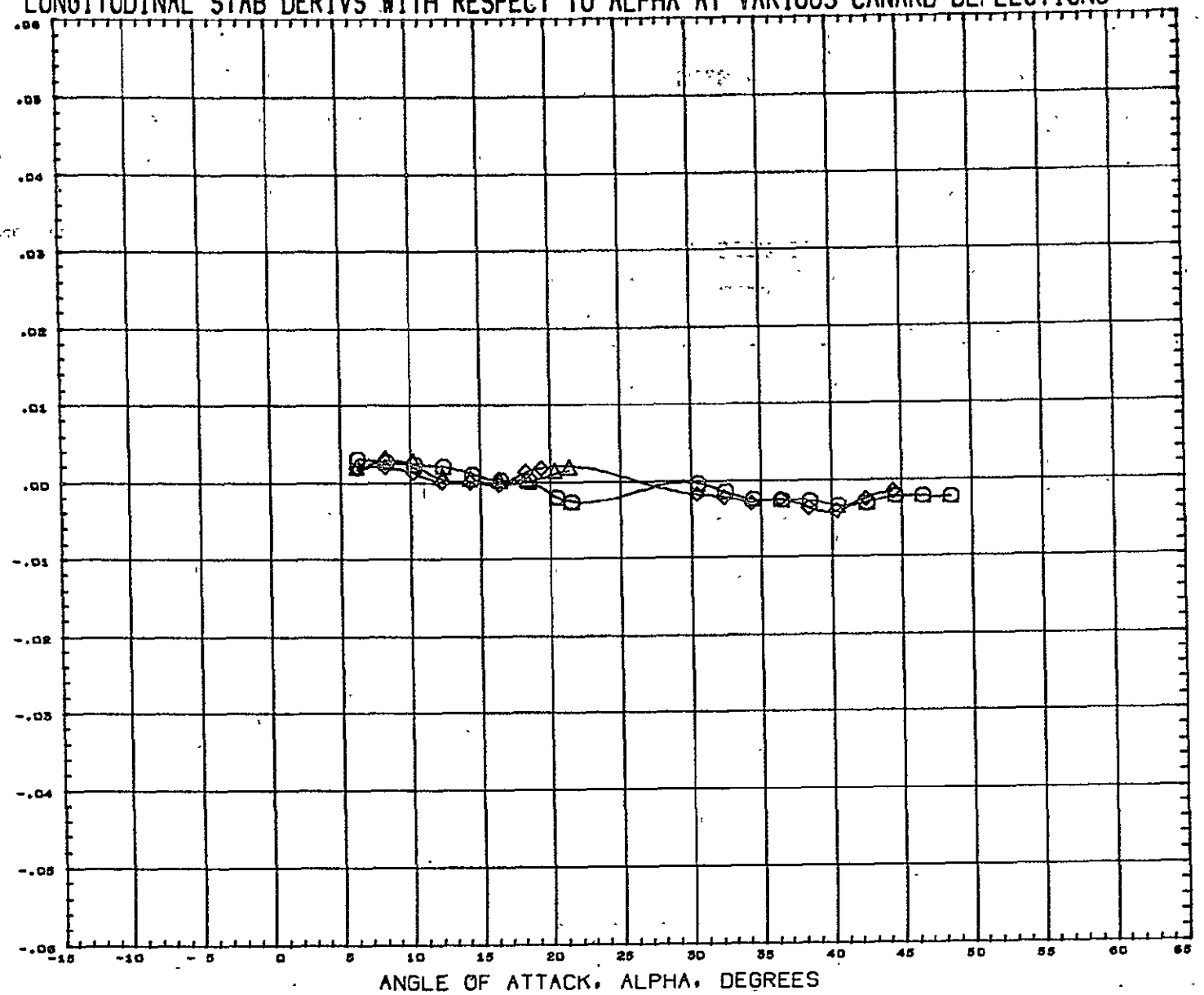
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.902	BETA	0.000	DEL	0.000
△	0.955	DER	0.000	DCL	- 30.000
□	1.054	DCR	30.000	ELEVON	0.000
◇	1.200	CANARD	- 30.000	AILRON	0.000
▽	1.464				
▷	1.962	DATA HIST. CODE	MVR*E*GG		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0038	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

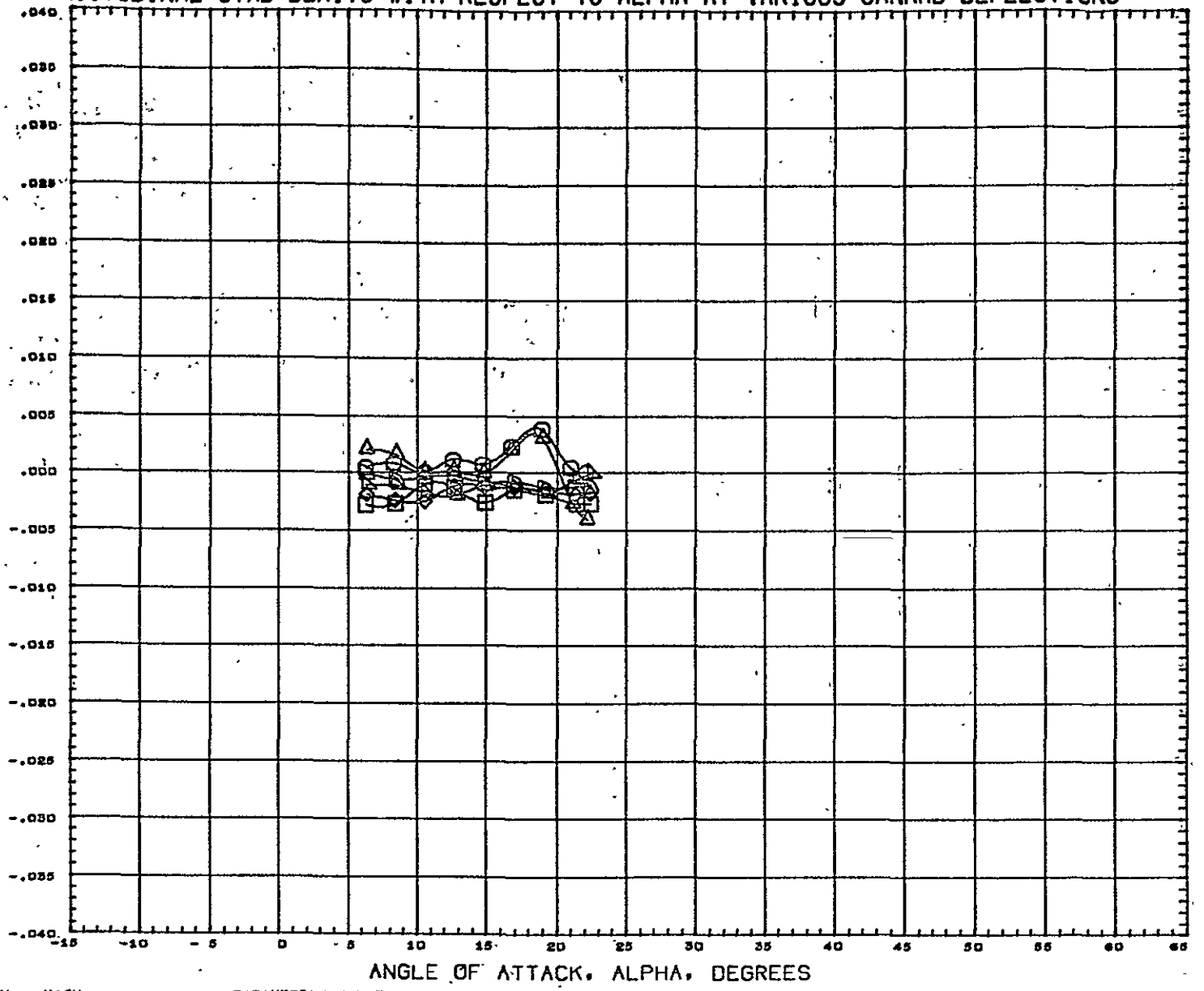


SYMBOL	MACH		PARAMETRIC VALUES		
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	- 30.000
◇	4.960	DCR	30.000	ELEVON	0.000
		CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*E*GG

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

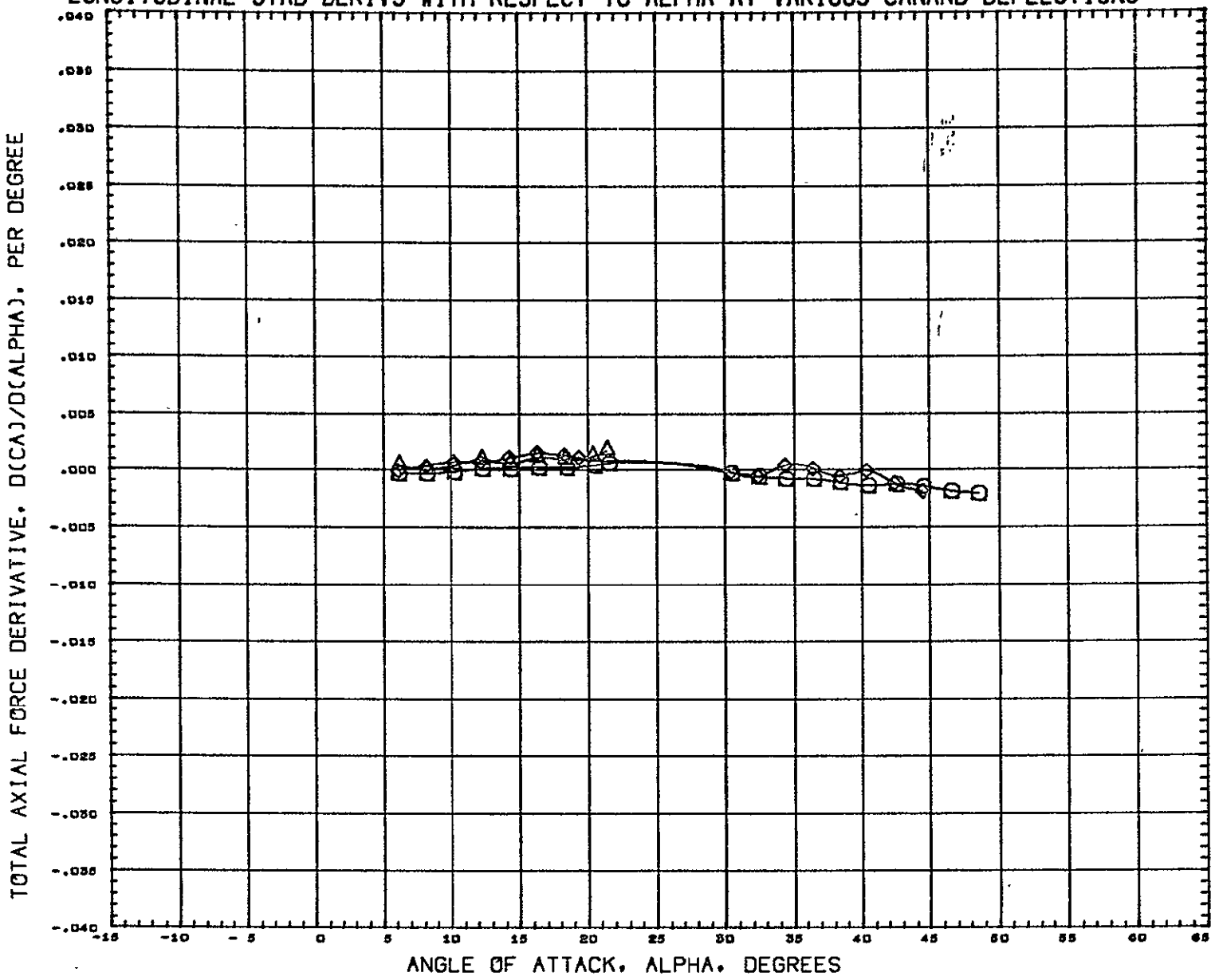
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.902	-BETA	0.000	DEL	0.000
△	0.955	DER	0.000	DCL	- 30.000
□	1.054	DCR	30.000	ELEVON	0.000
◇	1.200	CANARD	- 30.000	AILRON	0.000
▽	1.464				
D	1.962	DATA HIST. CODE		MVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH
○	2.990
△	4.000
◇	4.960

PARAMETRIC VALUES

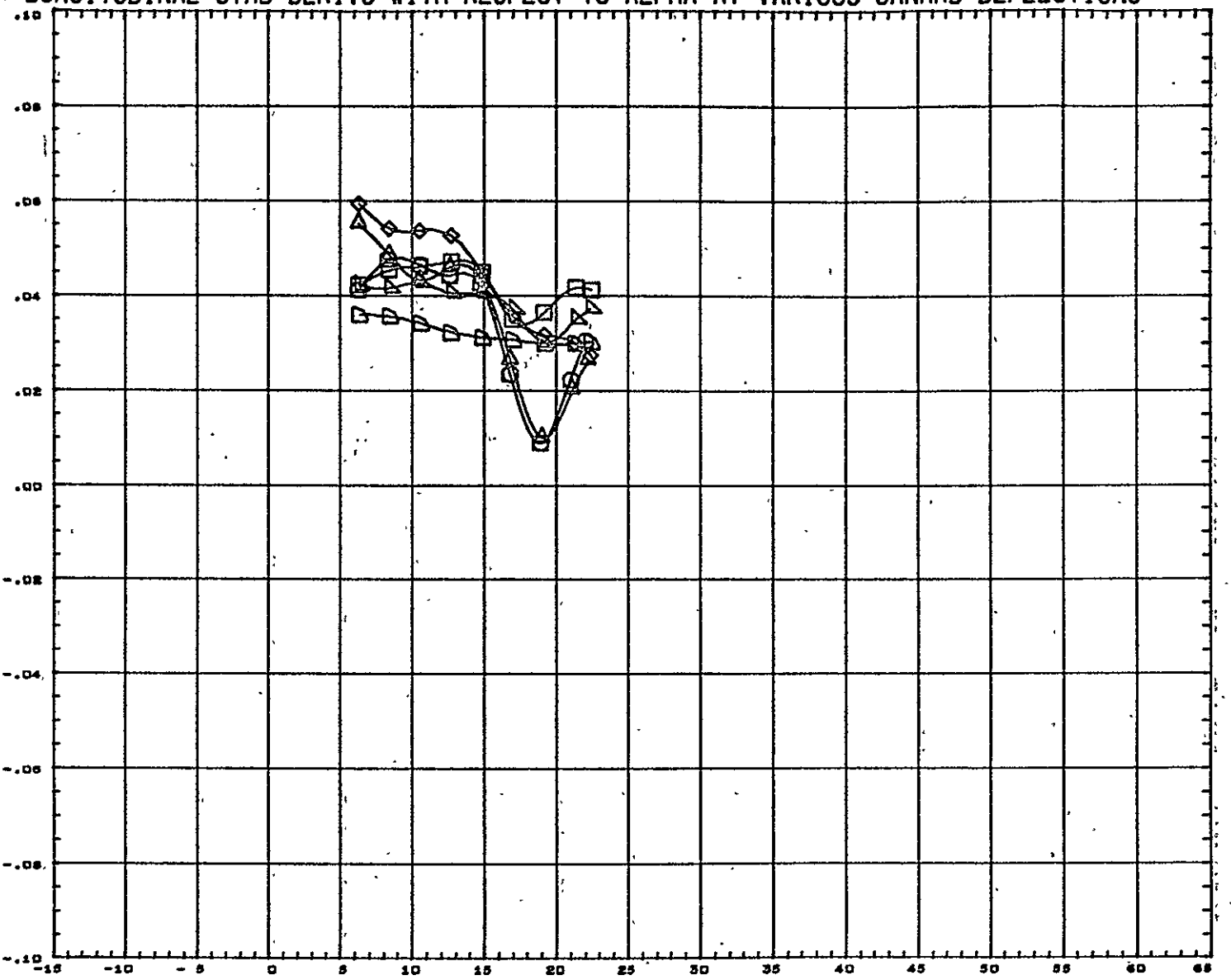
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*E*GG

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

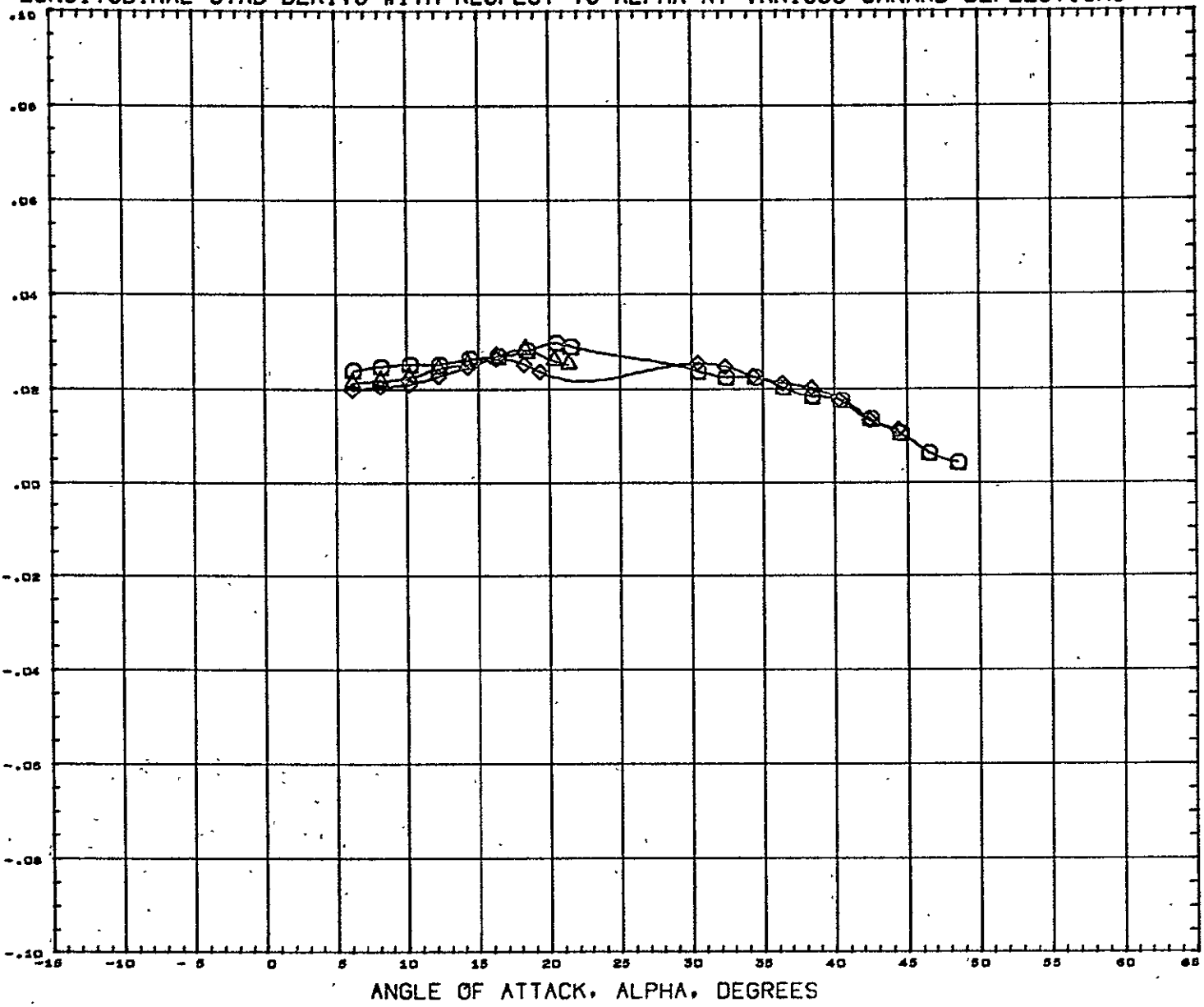
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.902	BETA	0.000	DEL	0.000
□	0.955	DER	0.000	DCL	- 30.000
◇	1.054	DCR	30.000	ELEVON	0.000
△	1.200	CANARD	- 30.000	AILRON	0.000
▽	1.464				
D	1.962	DATA HIST. CODE		HVR*E*GG	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH
○	2.990
△	4.000
◇	4.960

PARAMETRIC VALUES

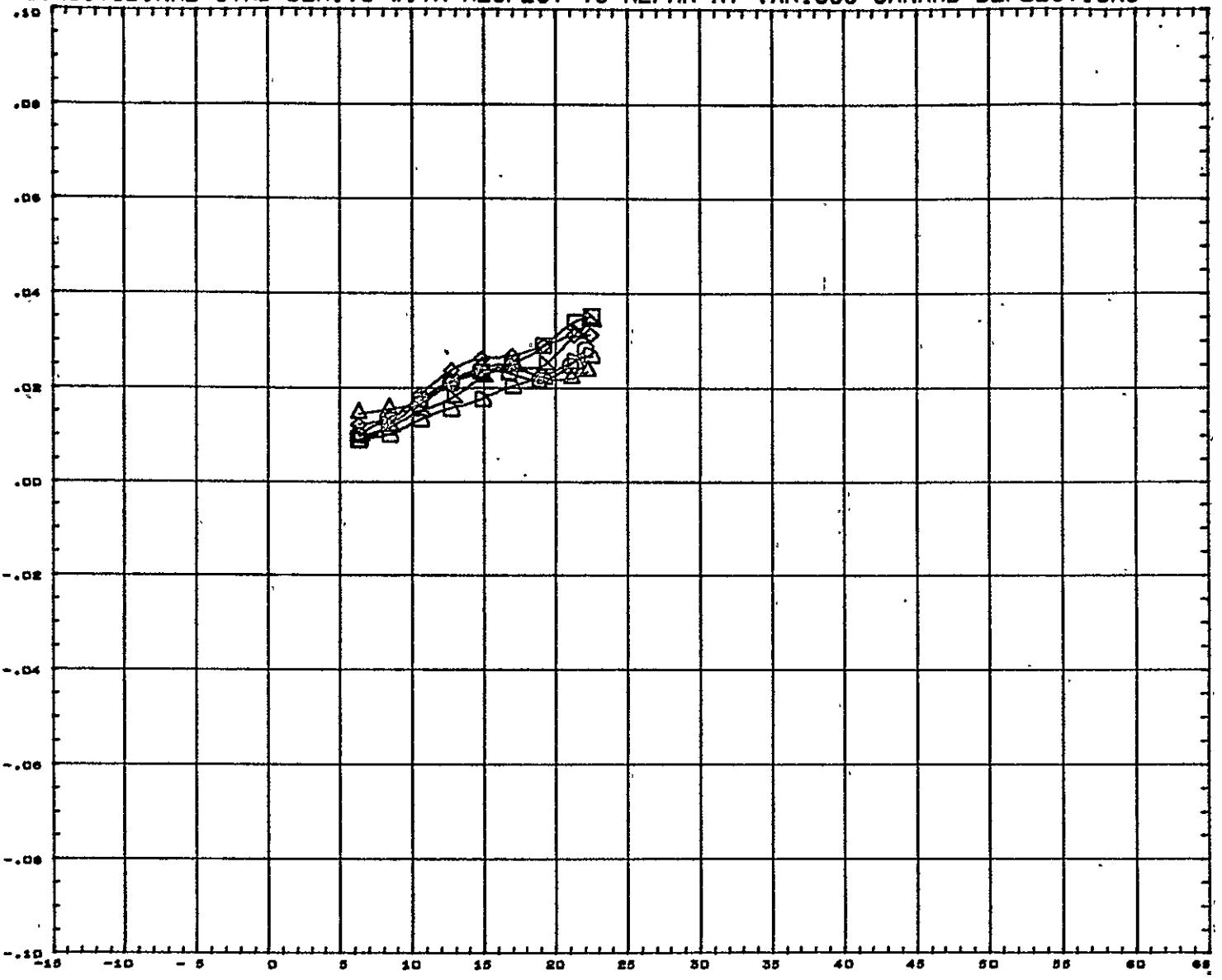
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE HVR*E*GG

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

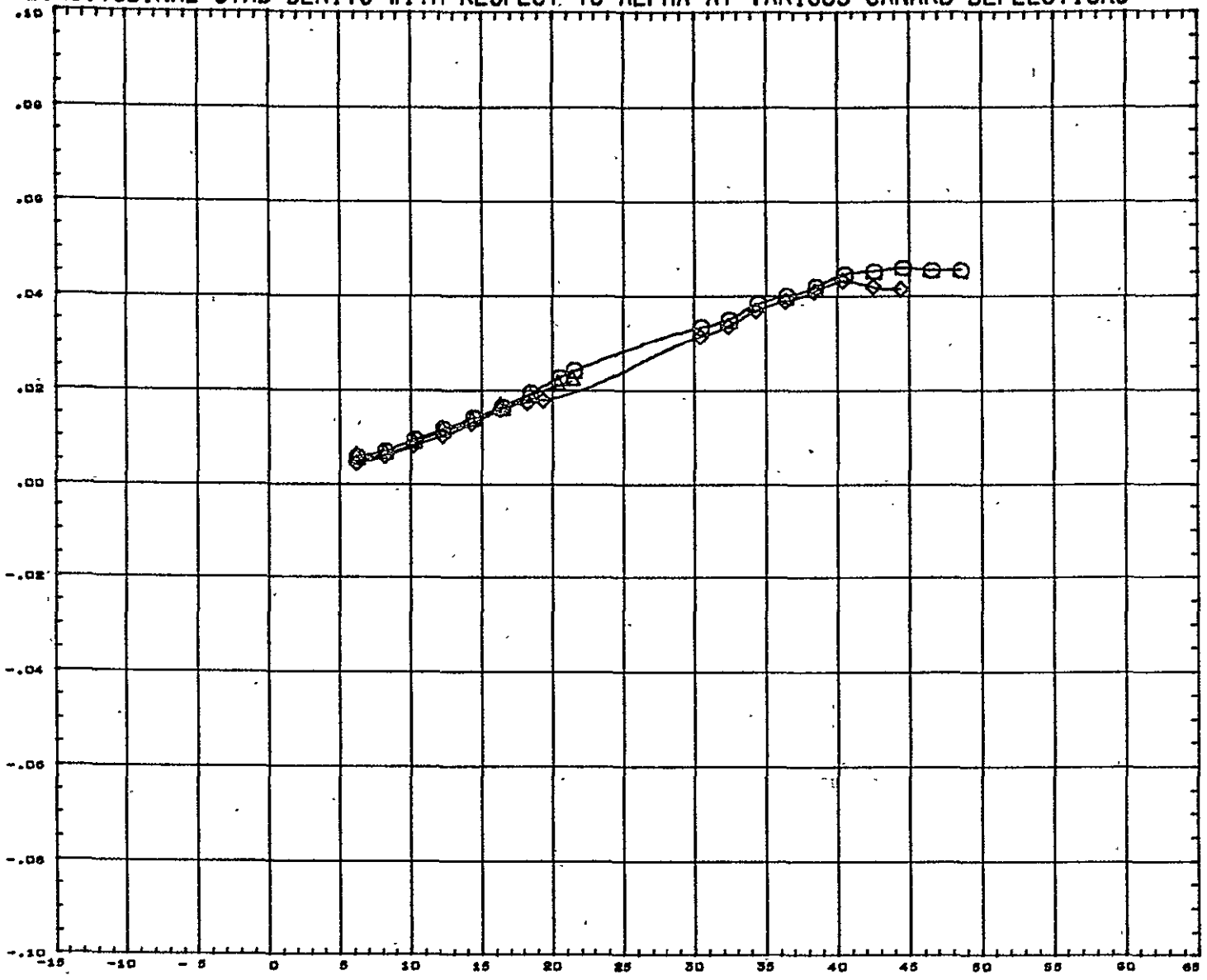
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.902	BETA	0.000	DEL	0.000
△	0.955	DER	0.000	DCL	- 30.000
□	1.054	DCR	30.000	ELEVON	0.000
◇	1.200	CANARD	- 30.000	AILRON	0.000
▽	1.464				
D	1.962	DATA HIST. CODE	MVR*E*GG		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH
○	2.990
△	4.000
◇	4.960

PARAMETRIC VALUES

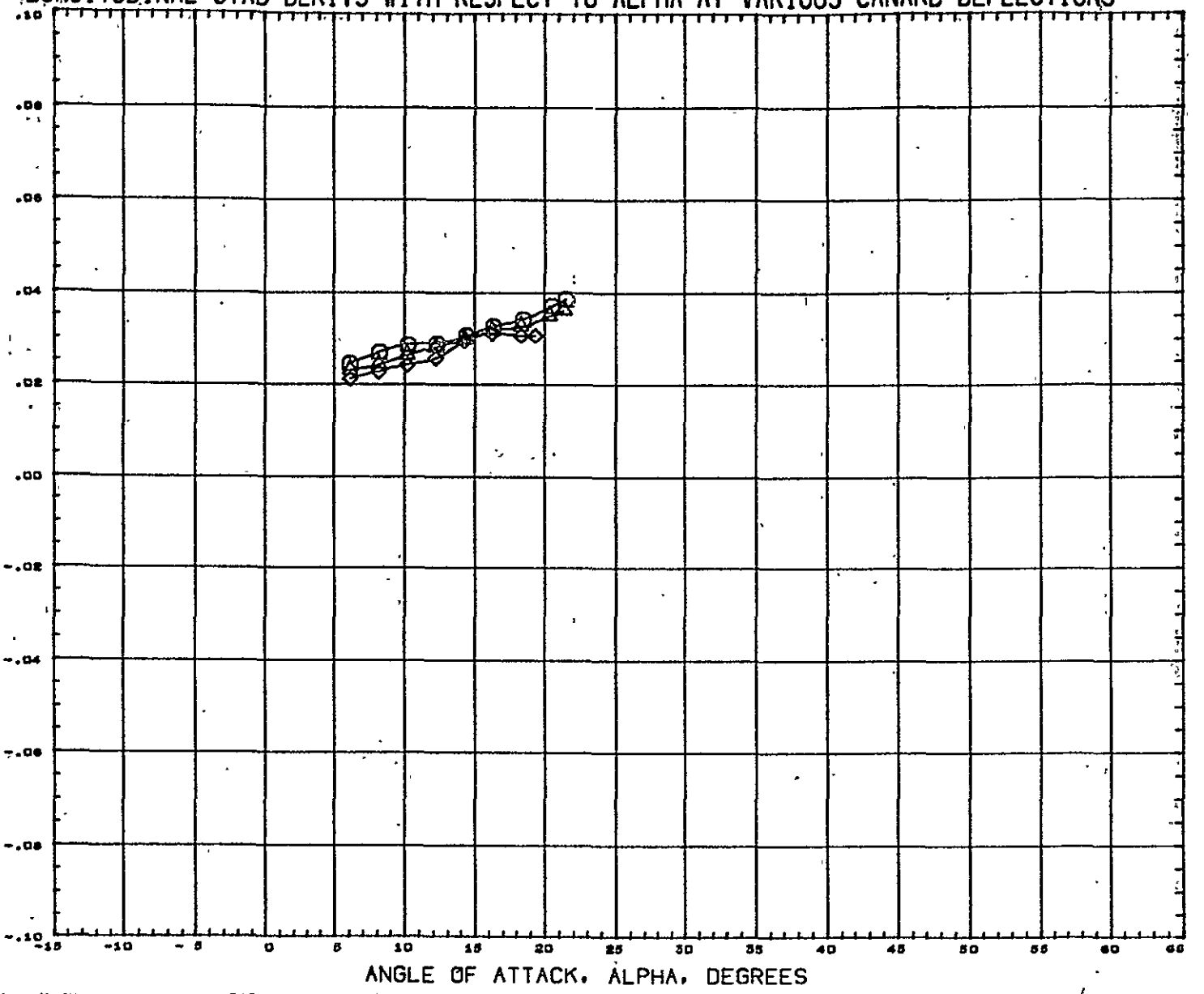
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*E*GG

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH
○	2.990
△	4.000
◇	4.960

PARAMETRIC VALUES

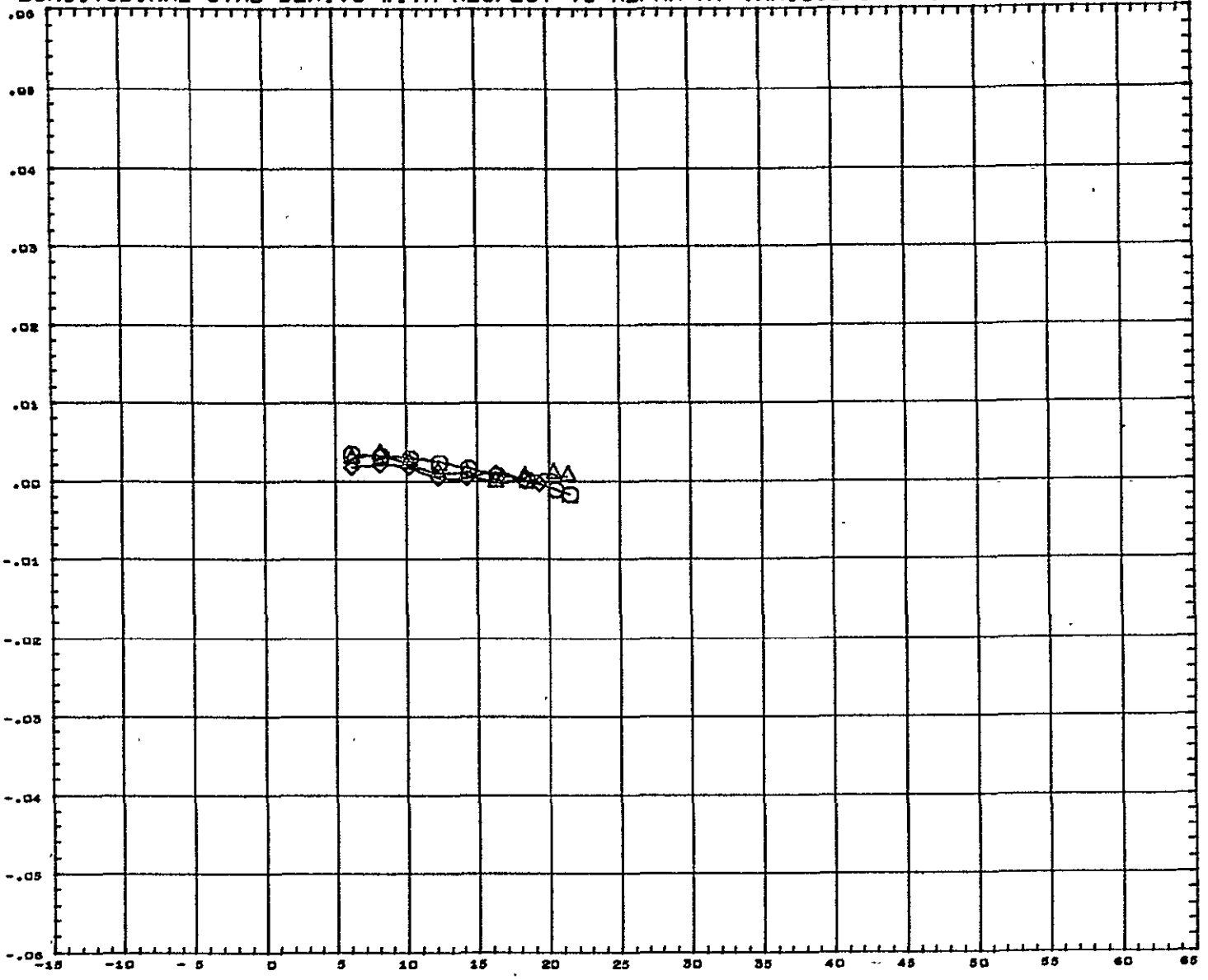
BETA	0.000	DEL	0.000
DER	0.000	DCL	± 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE MVR#EG

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



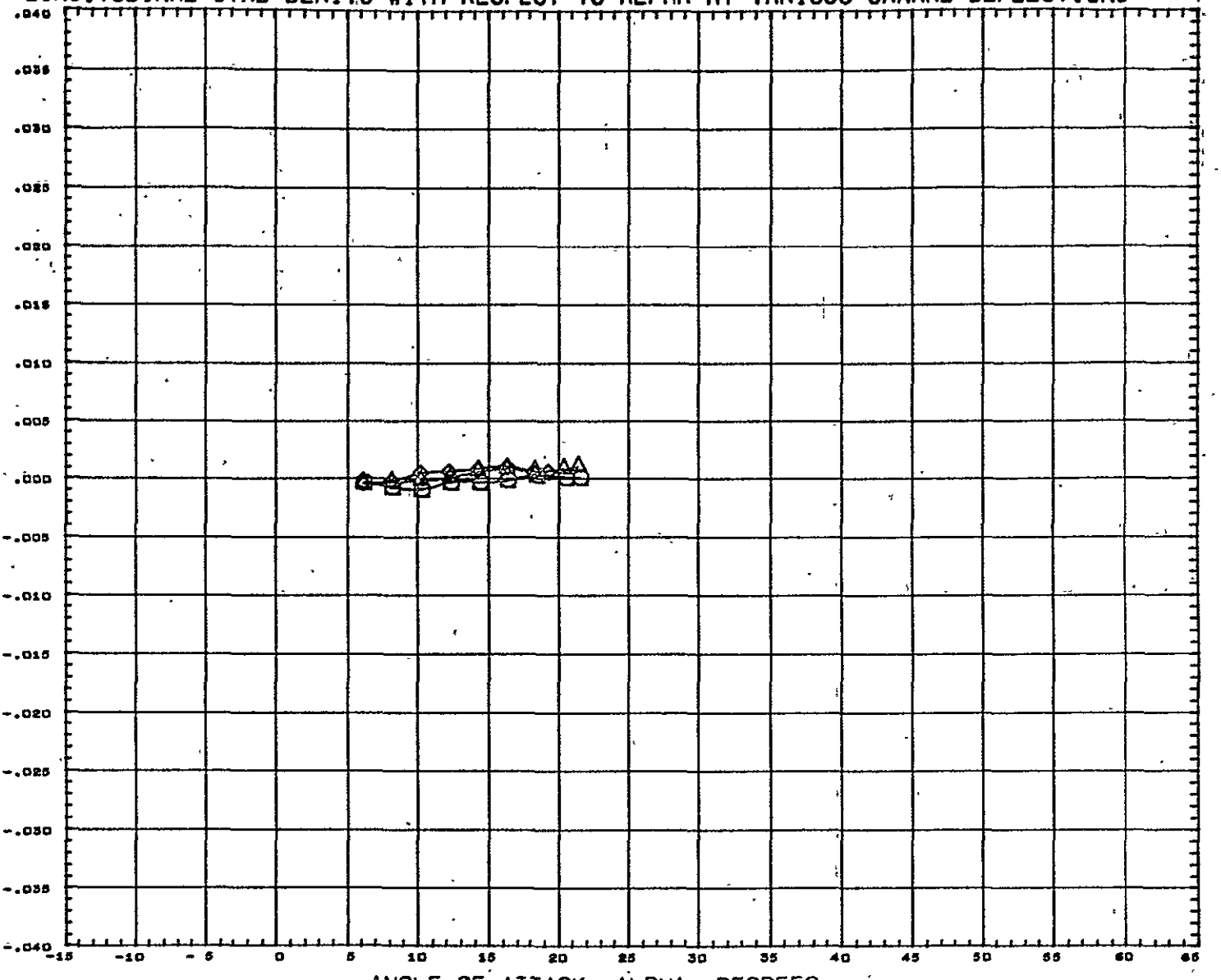
SYMBOL	MACH	PARAMETRIC VALUES			
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	- 45.000
◇	4.960	DCR	- 45.000	ELEVON	0.000
		CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE HVR#E6

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH
◇	2.990,
△	4.000
○	4.960

PARAMETRIC VALUES

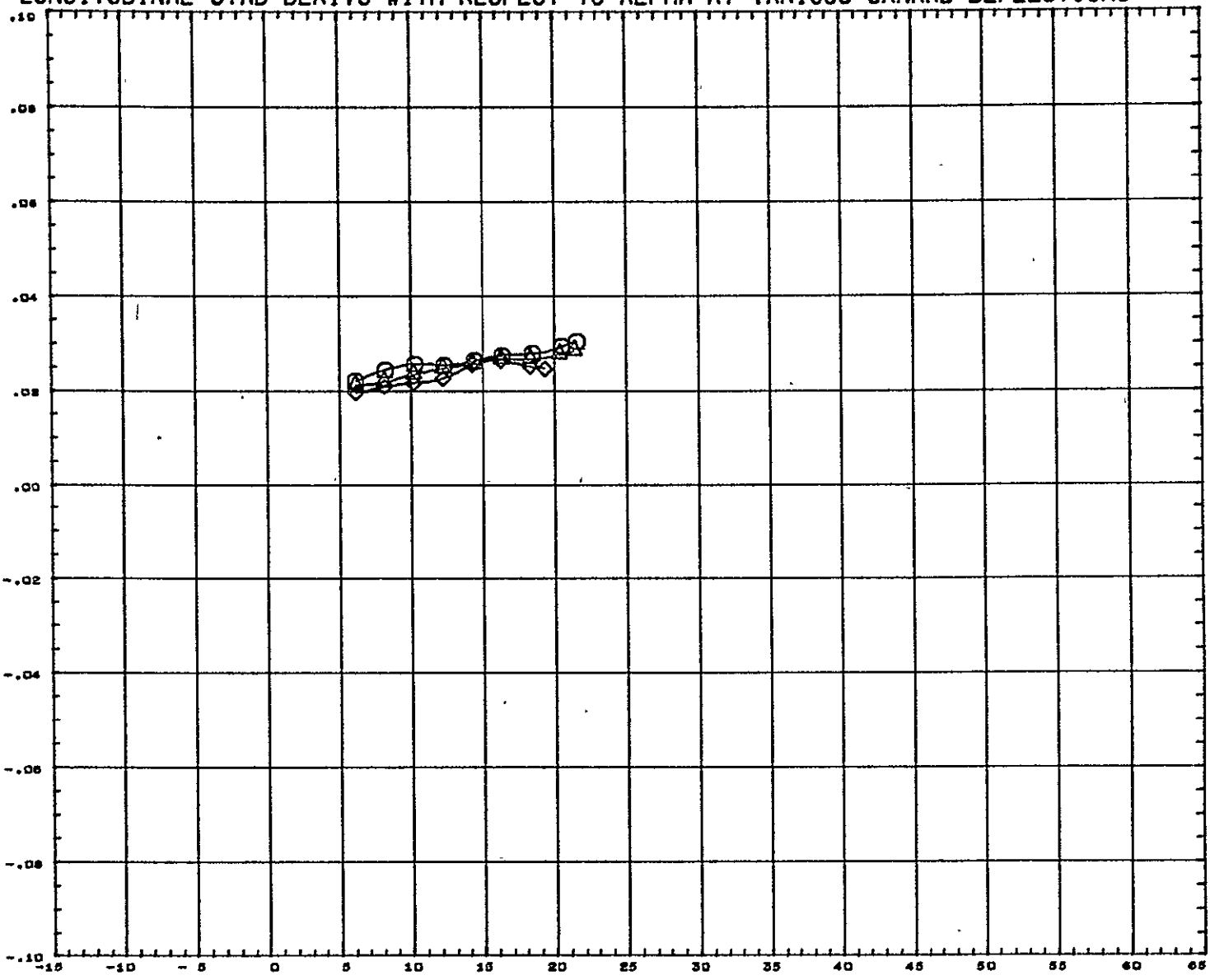
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE MVR*EG

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH
○	2.990
△	4.000
◇	4.960

PARAMETRIC VALUES

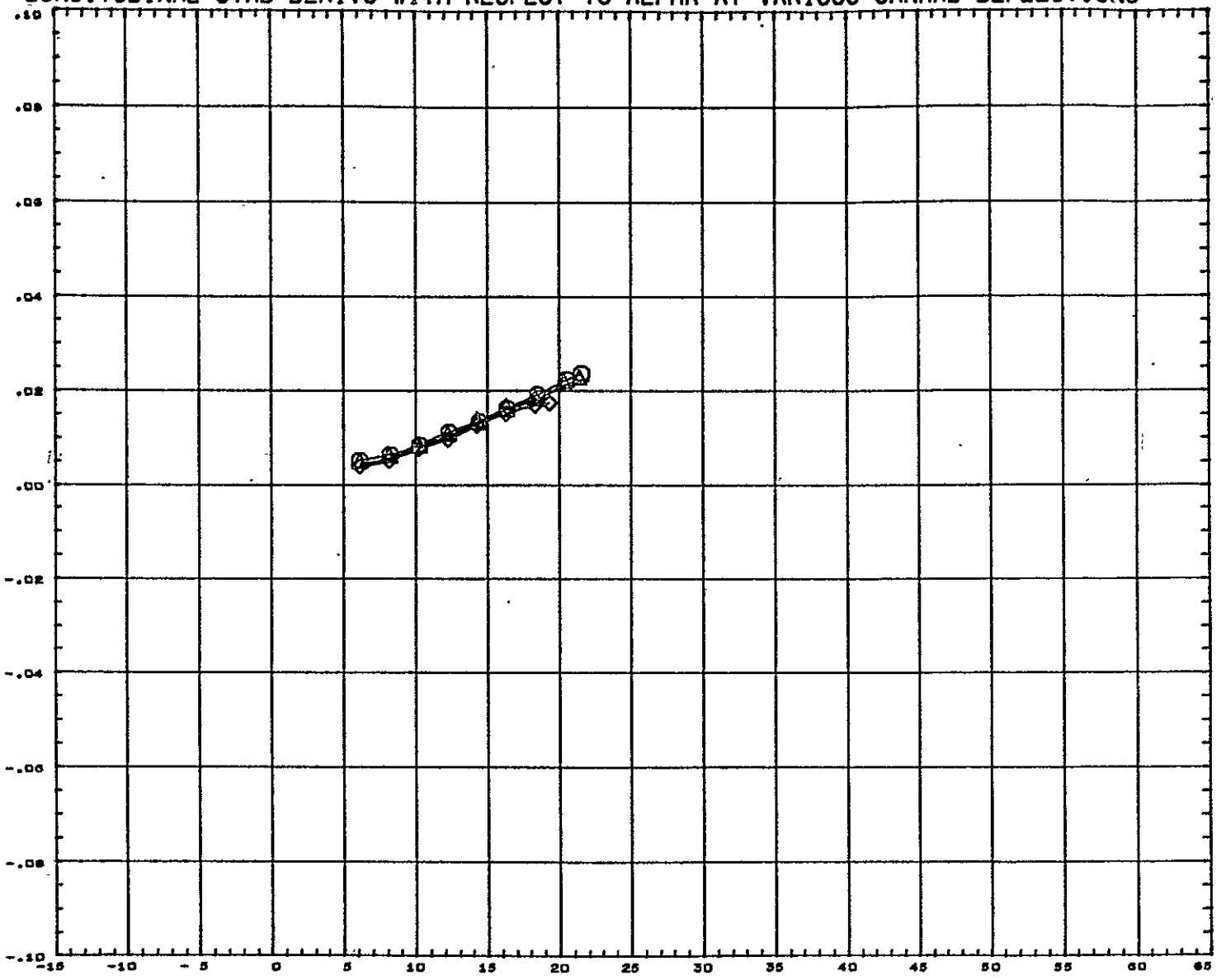
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE MVR*EG

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

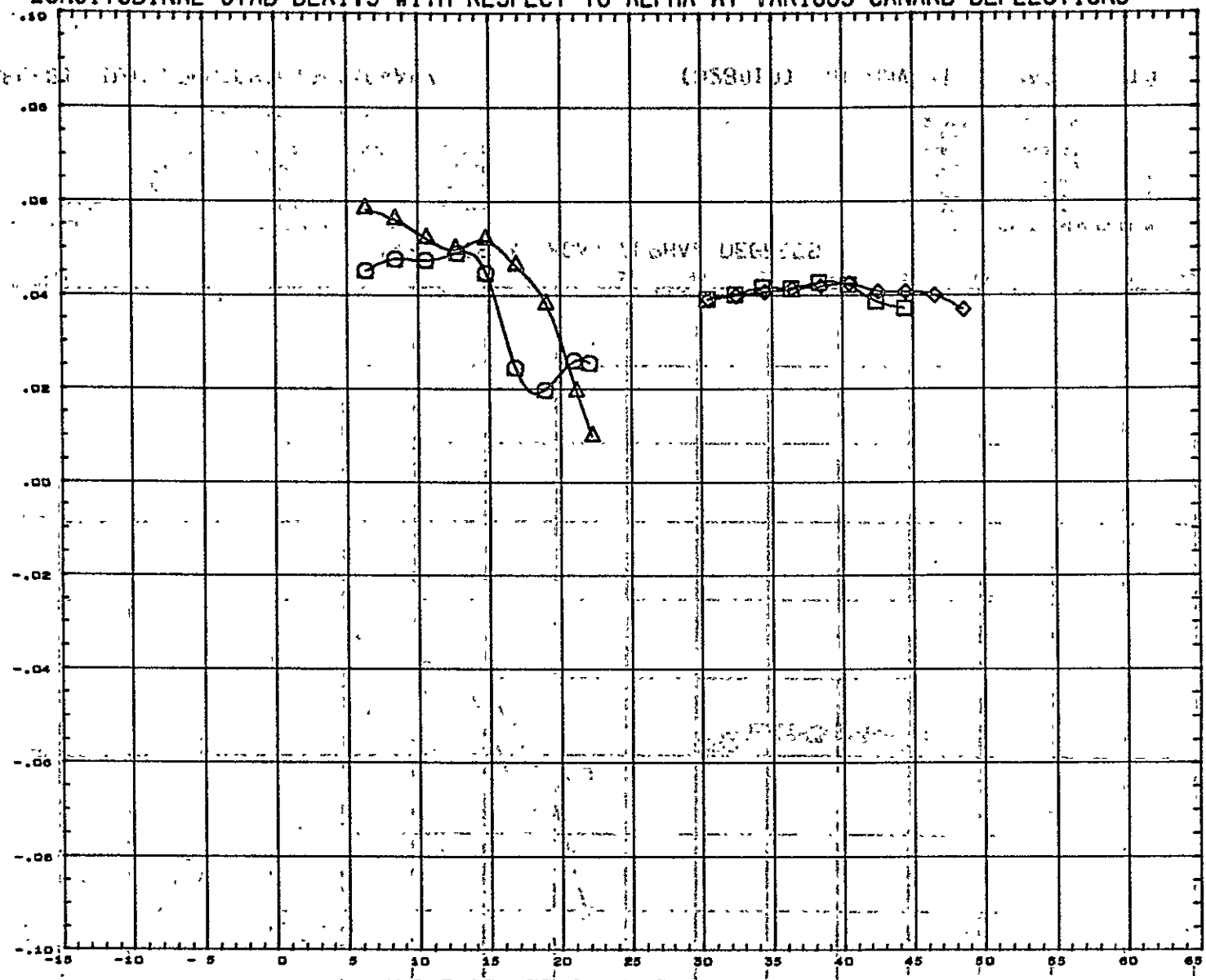


SYMBOL	MACH	PARAMETRIC VALUES			
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	- 45.000
◇	4.960	DCR	- 45.000	ELEVON	0.000
		CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE MVR*EG

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

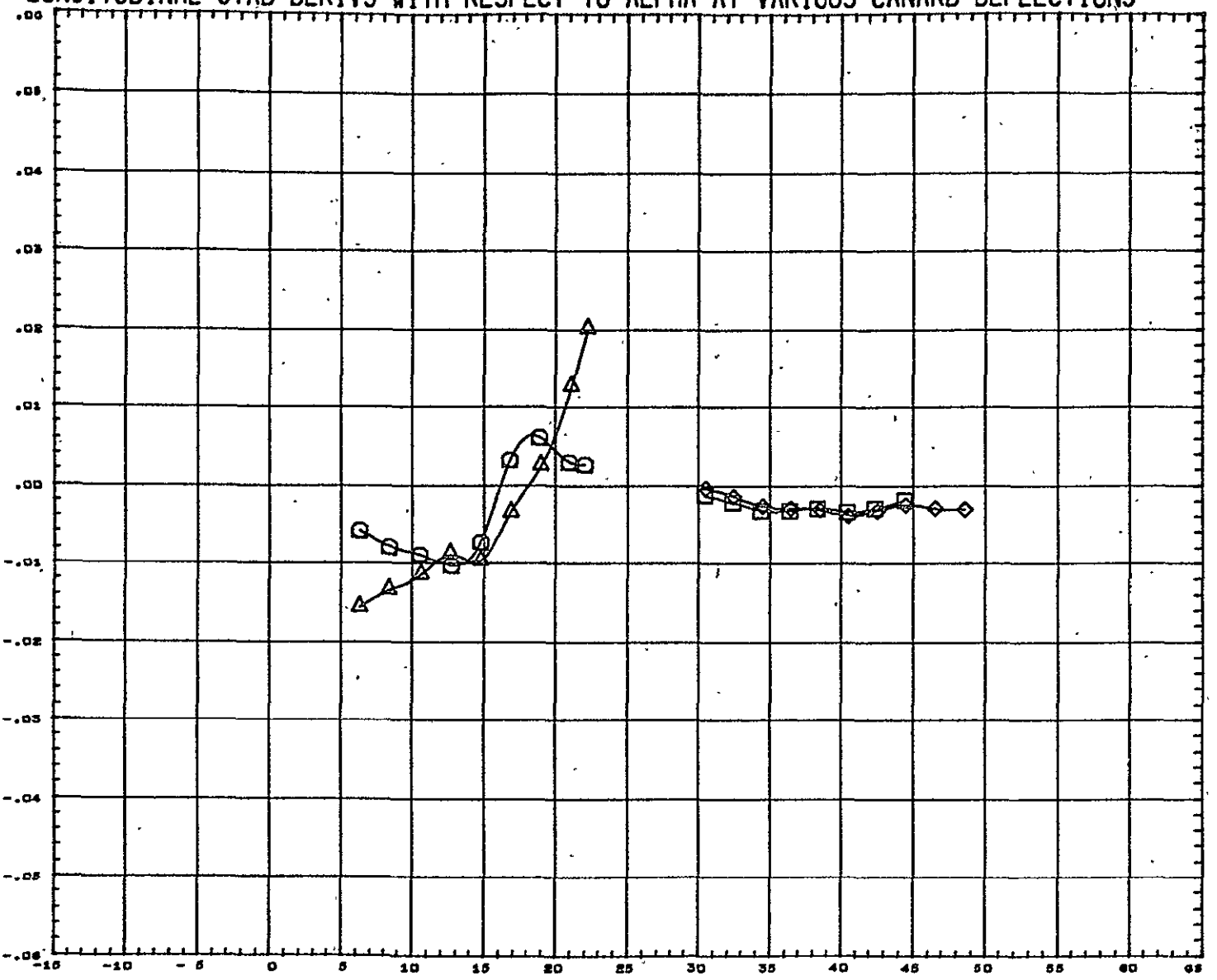


SYMBOL	MACH	PARAMETRIC VALUES			
□	0.900	BETA	0.000	DEL	0.000
◇	1.053	DER	0.000	DCL	- 60.000
△	2.990	DCR	- 60.000	ELEVON	0.000
○	4.960	CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE MVR*E*GC

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

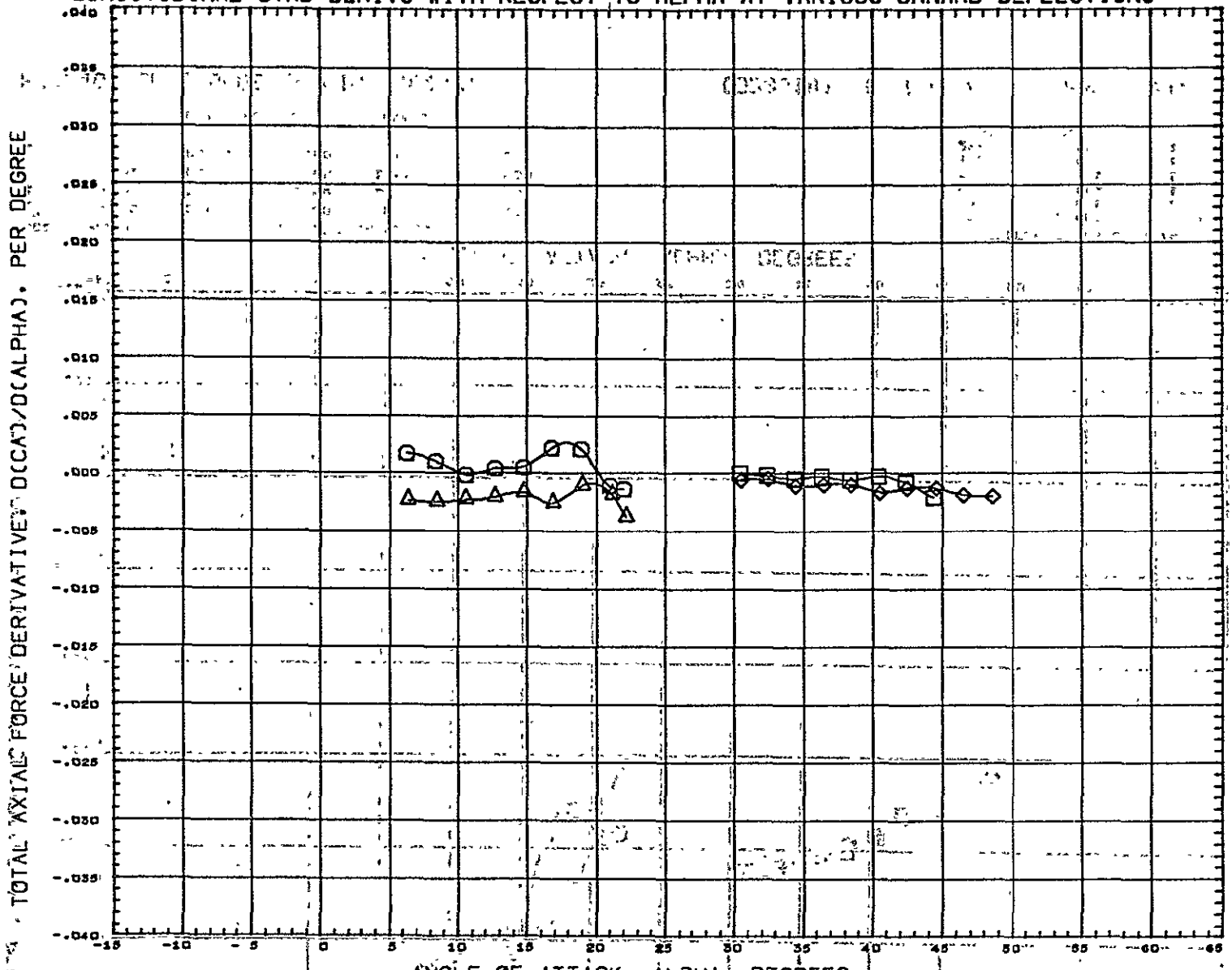


SYMBOL	MACH		PARAMETRIC VALUES		
○	0.900	BETA	0.000	DEL	0.000
△	1.053	DER	0.000	DCL	- 60.000
◇	2.990	DCR	- 60.000	ELEVON	0.000
□	4.960	CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE MVR*E*GG

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH
○	0.900
△	1.053
◇	2.990
□	4.960

PARAMETRIC VALUES

BETA	0.000	DEL	0.000
DER	0.000	DCL	60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

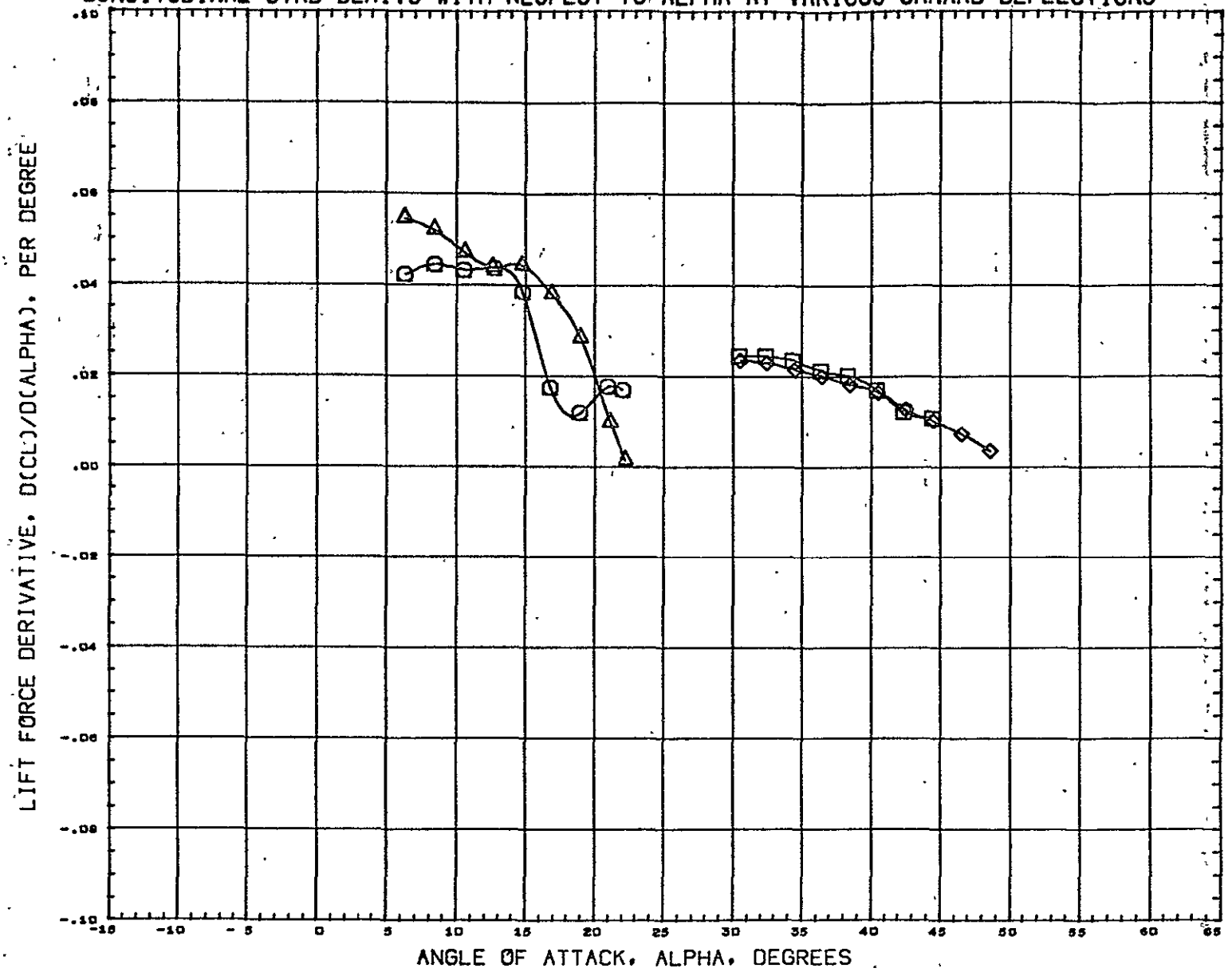
DATA HIST. CODE HVR*E*GG

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPUTER GENERATED PLOT FROM DATA STORED IN MSFC AVOCADO DATA FILE

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

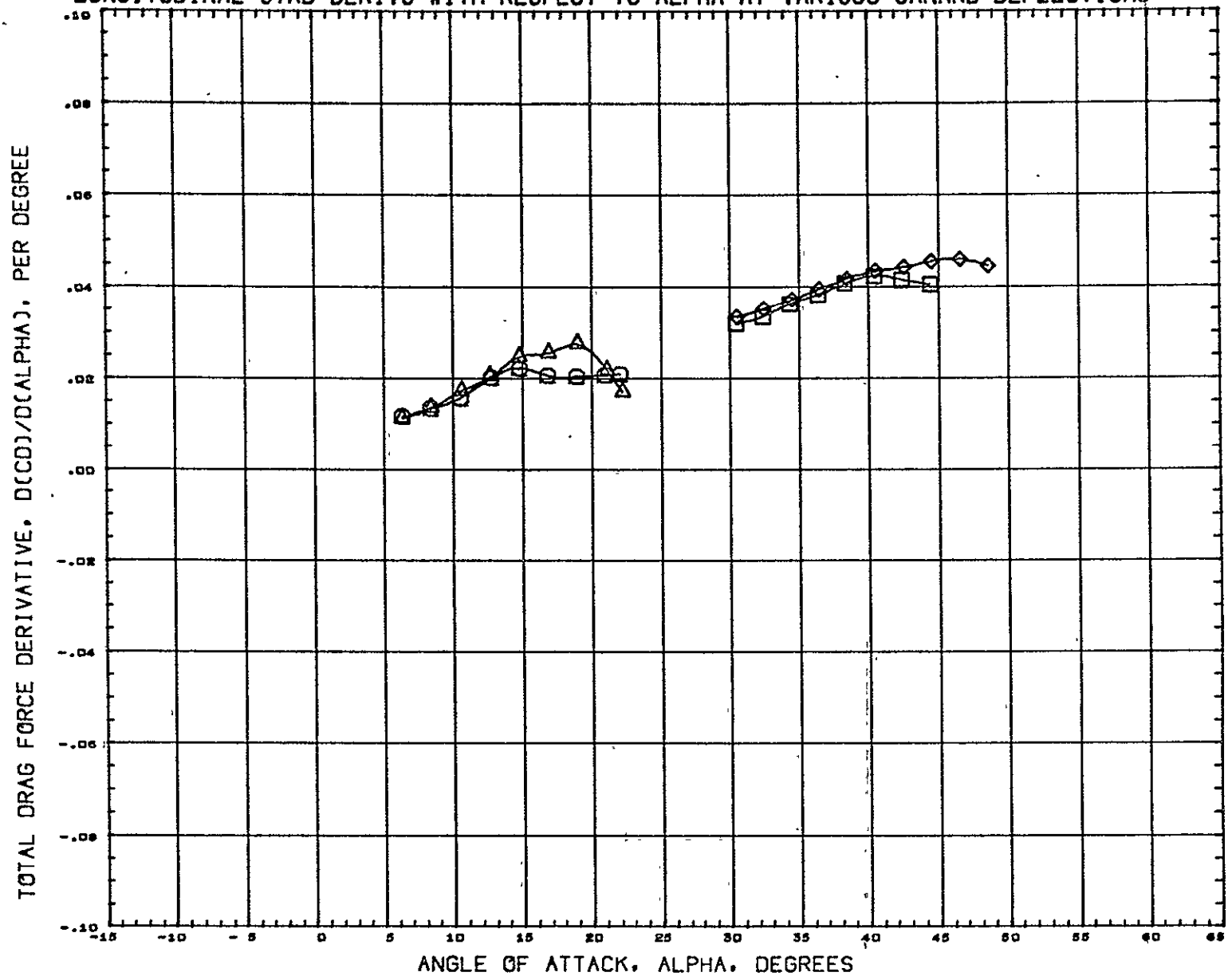


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.900	BETA	0.000	DEL	0.000
△	1.053	DER	0.000	DCL	- 60.000
□	2.990	DCR	- 60.000	ELEVON	0.000
◇	4.960	CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE MVR*E*GG

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

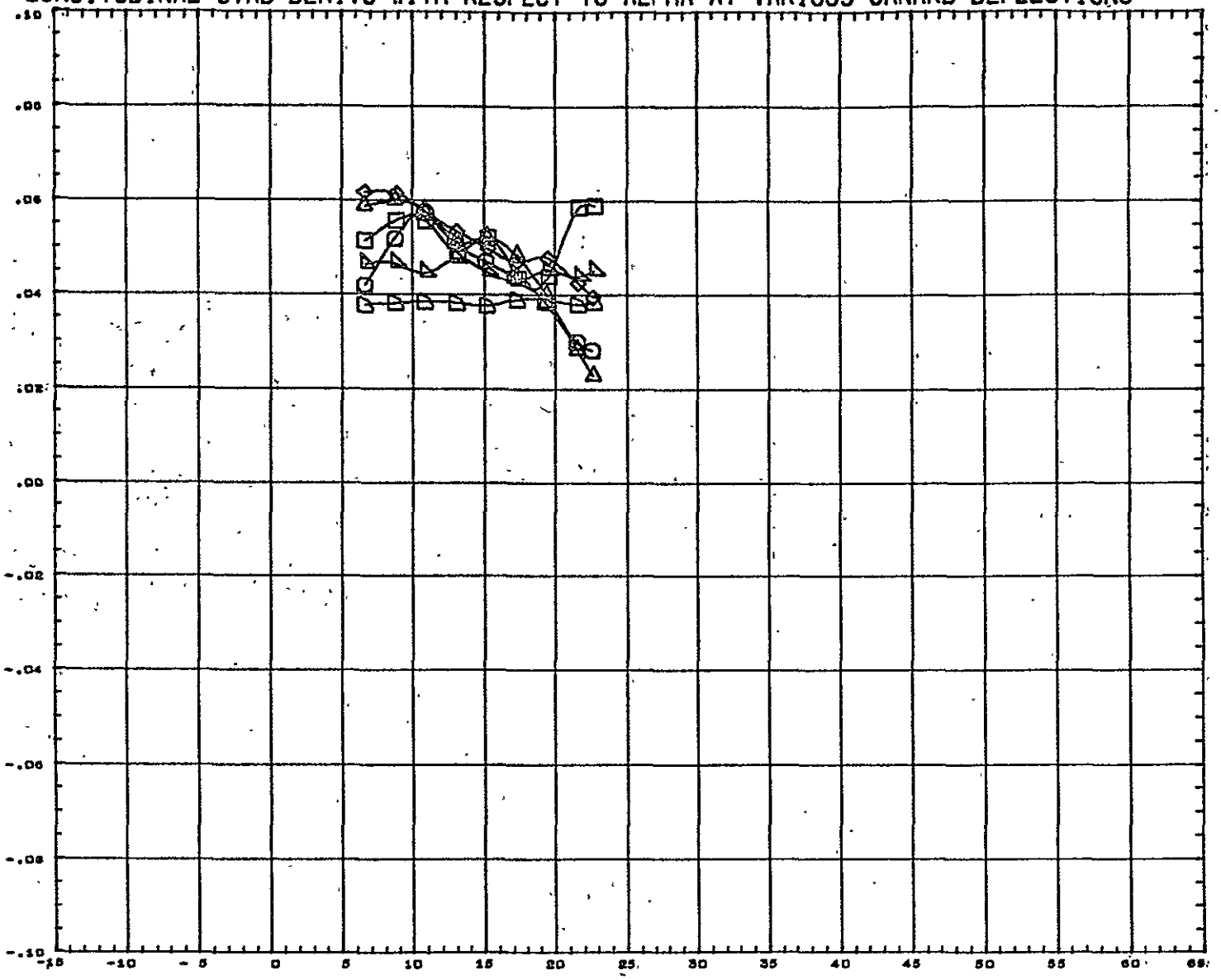


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.900	BETA	0.000	DEL	0.000
△	1.053	DER	0.000	DCL	- 60.000
◇	2.990	DCR	- 60.000	ELEVON	0.000
□	4.960	CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE HVR*E*GG

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

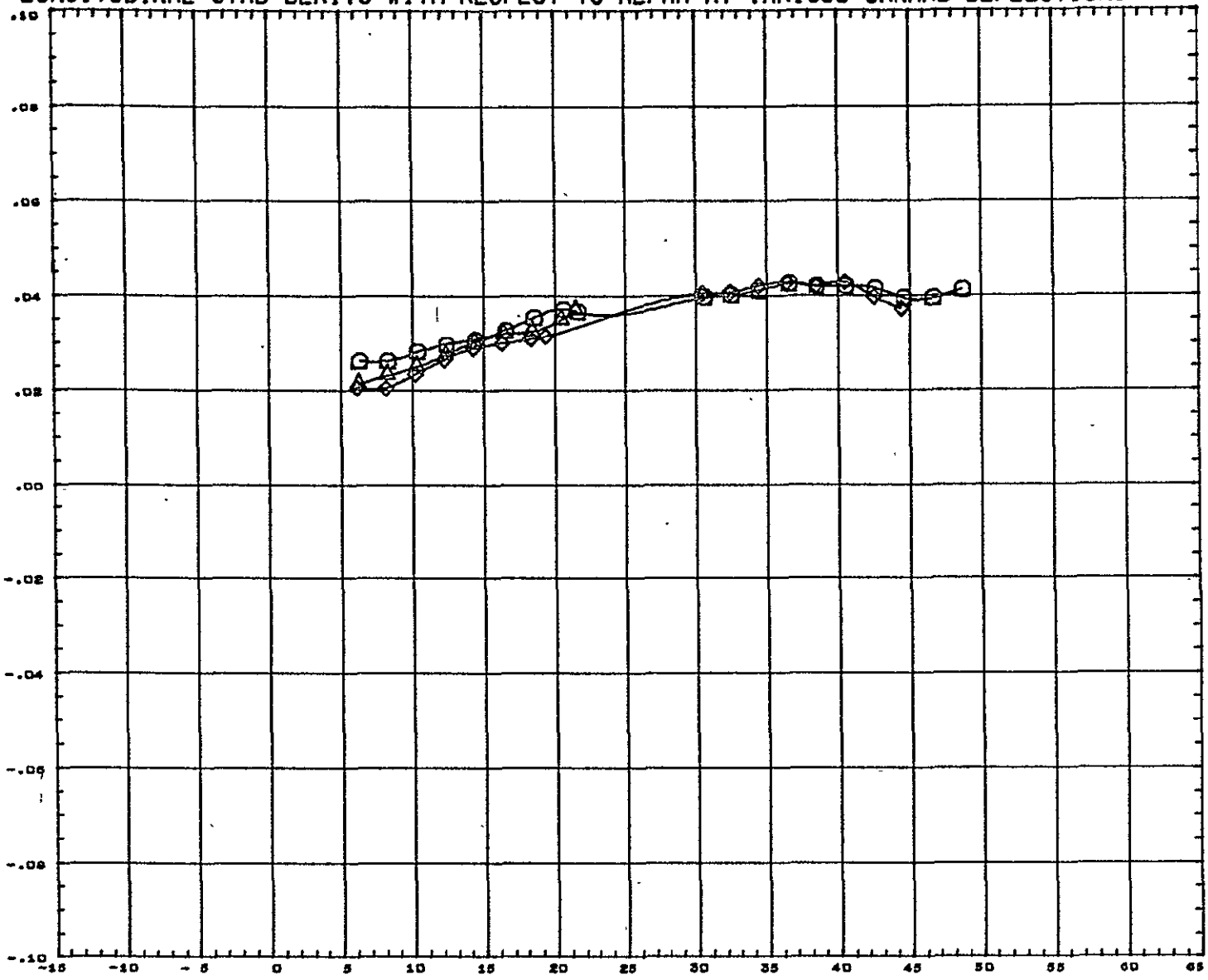
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
	0.901	BETA	0.000	DEL	0.000
	0.955	DER	0.000	DCL	15.000
	1.051	DCR	15.000	ELEVON	0.000
	1.203	CANARD	15.000	AILRON	0.000
	1.460				
	1.956	DATA HIST. CODE	MVR*E*GG		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

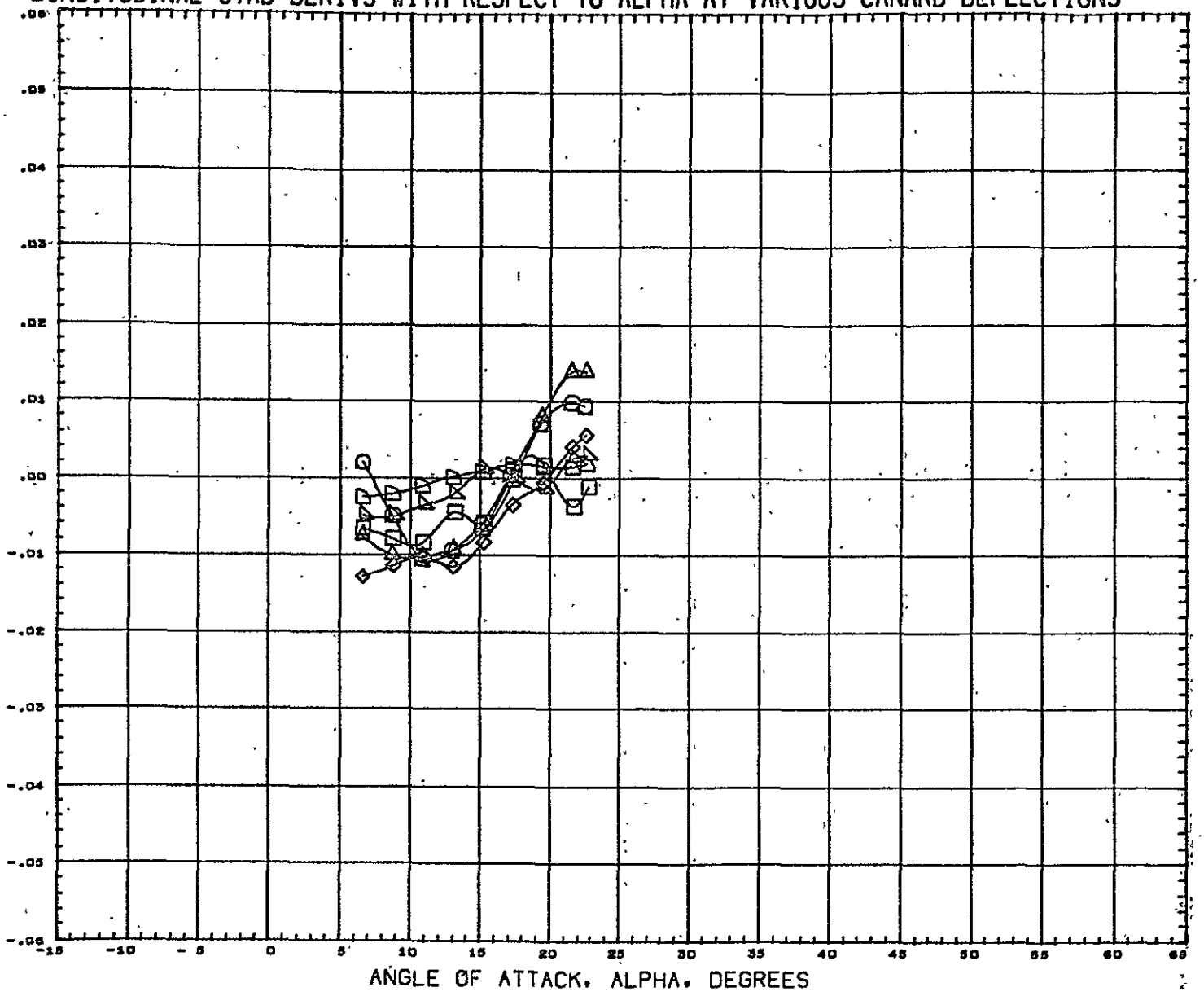


SYMBOL	MACH	PARAMETRIC VALUES			
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	15.000
◇	4.960	DCR	15.000	ELEVON	0.000
		CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR*E*GG

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

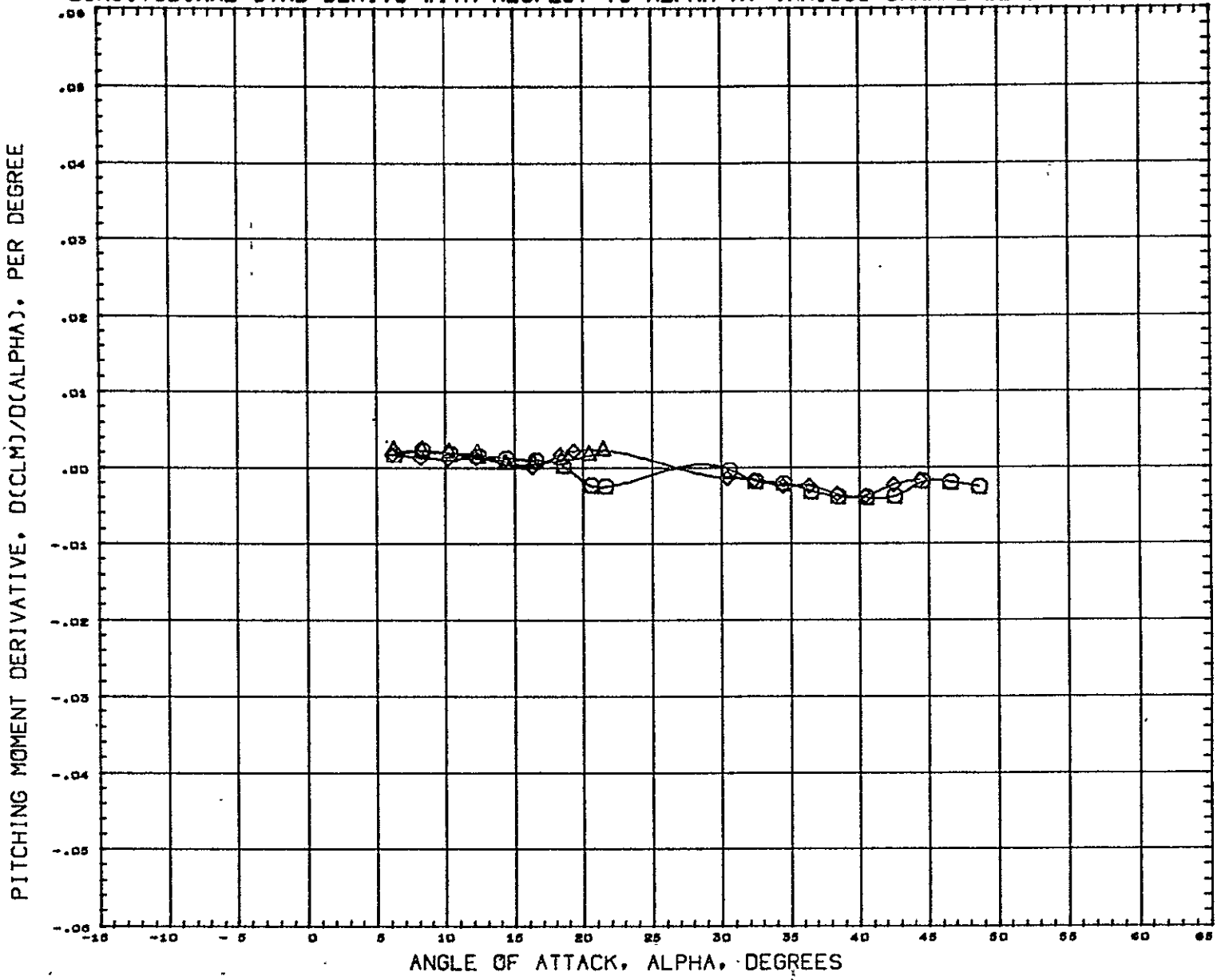


SYMBOL	MACH		PARAMETRIC VALUES		
○	0.901	BETA	0.000	DEL	0.000
△	0.955	DER	0.000	DCL	15.000
□	1.051	DCR	15.000	ELEVON	0.000
◇	1.203	CANARD	15.000	AILRON	0.000
▽	1.460				
⊿	1.958	DATA HIST. CODE	HVR*E*GG		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH
○	2.990
△	4.000
◇	4.960

PARAMETRIC VALUES

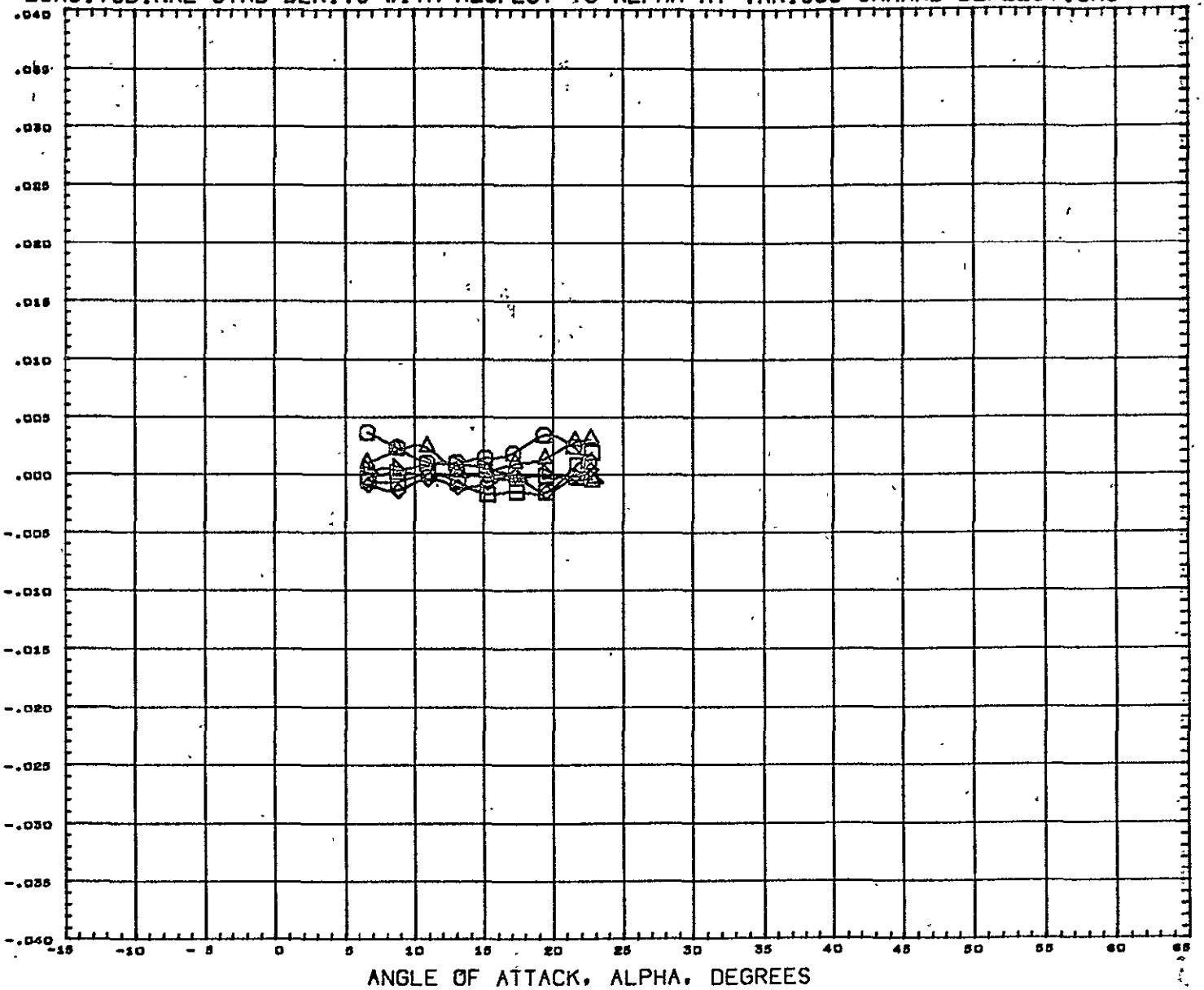
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR*E*GG

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

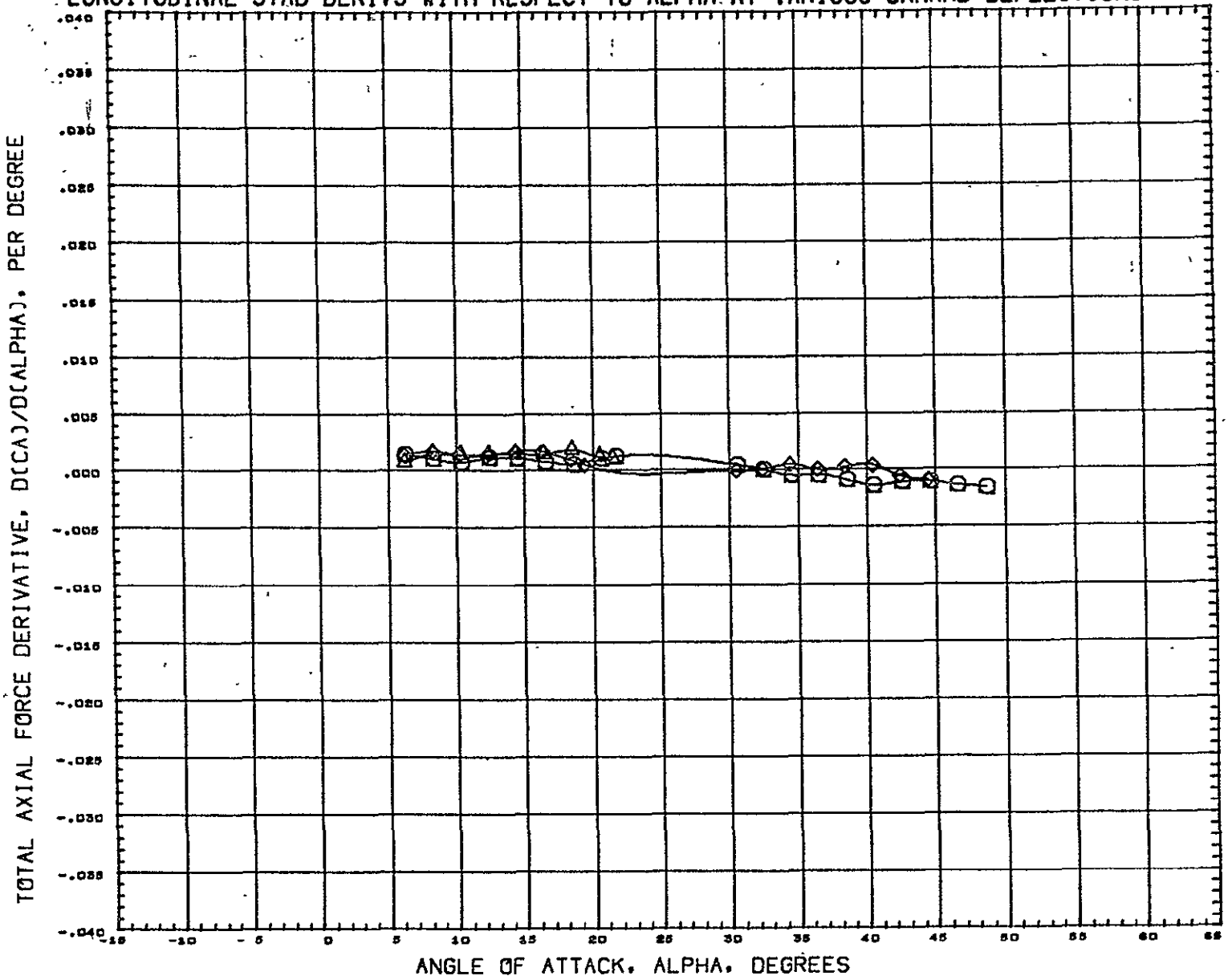
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.901	BETA	0.000	DEL	0.000
△	0.955	DER	0.000	DCL	15.000
□	1.051	DCR	15.000	ELEVON	0.000
◇	1.203	CANARD	15.000	AILRON	0.000
▽	1.460				
▷	1.958	DATA HIST. CODE	MVR*E*GG		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

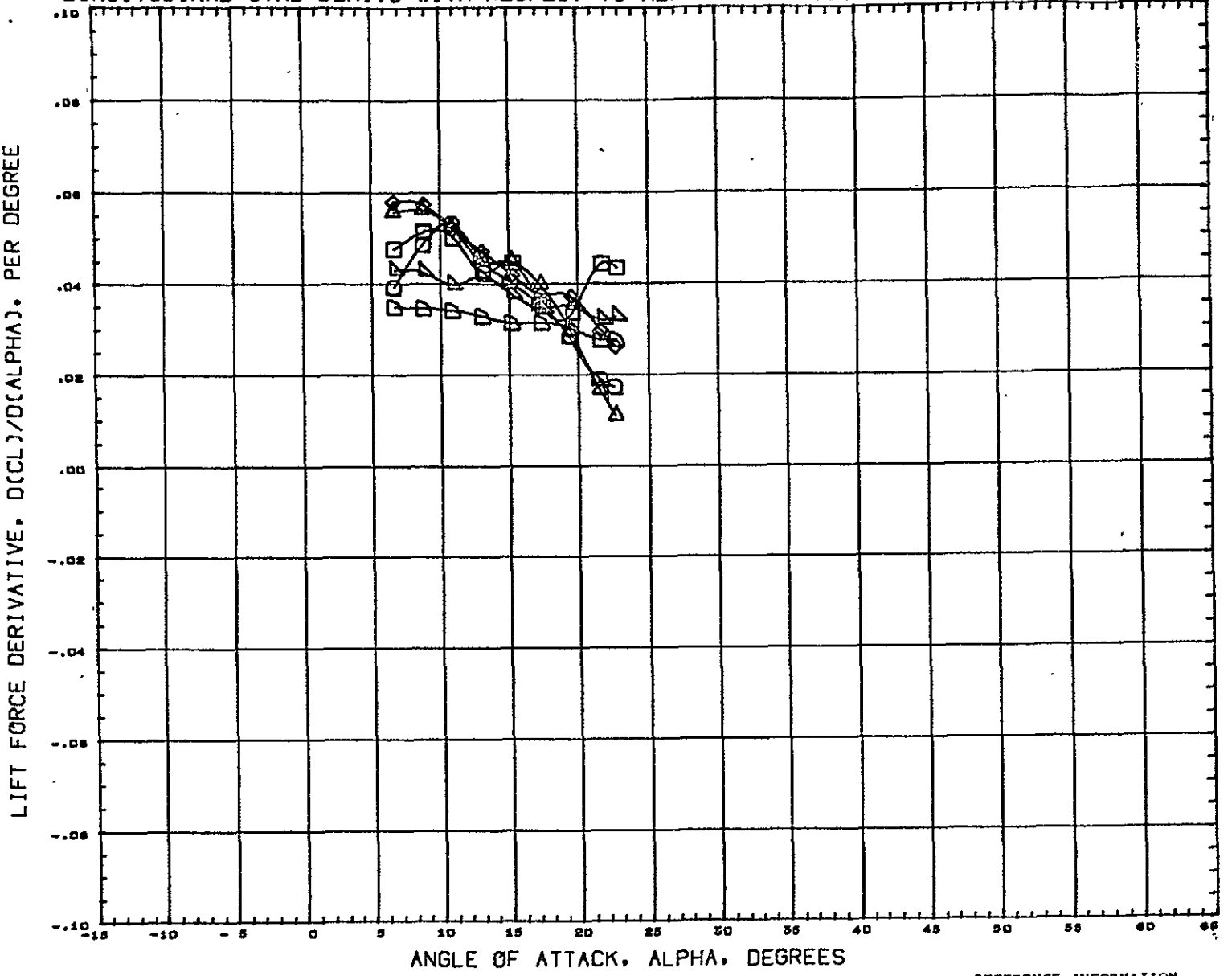


SYMBOL	MACH		PARAMETRIC VALUES		
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	15.000
◇	4.960	DCR	15.000	ELEVON	0.000
		CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR*E*GG

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

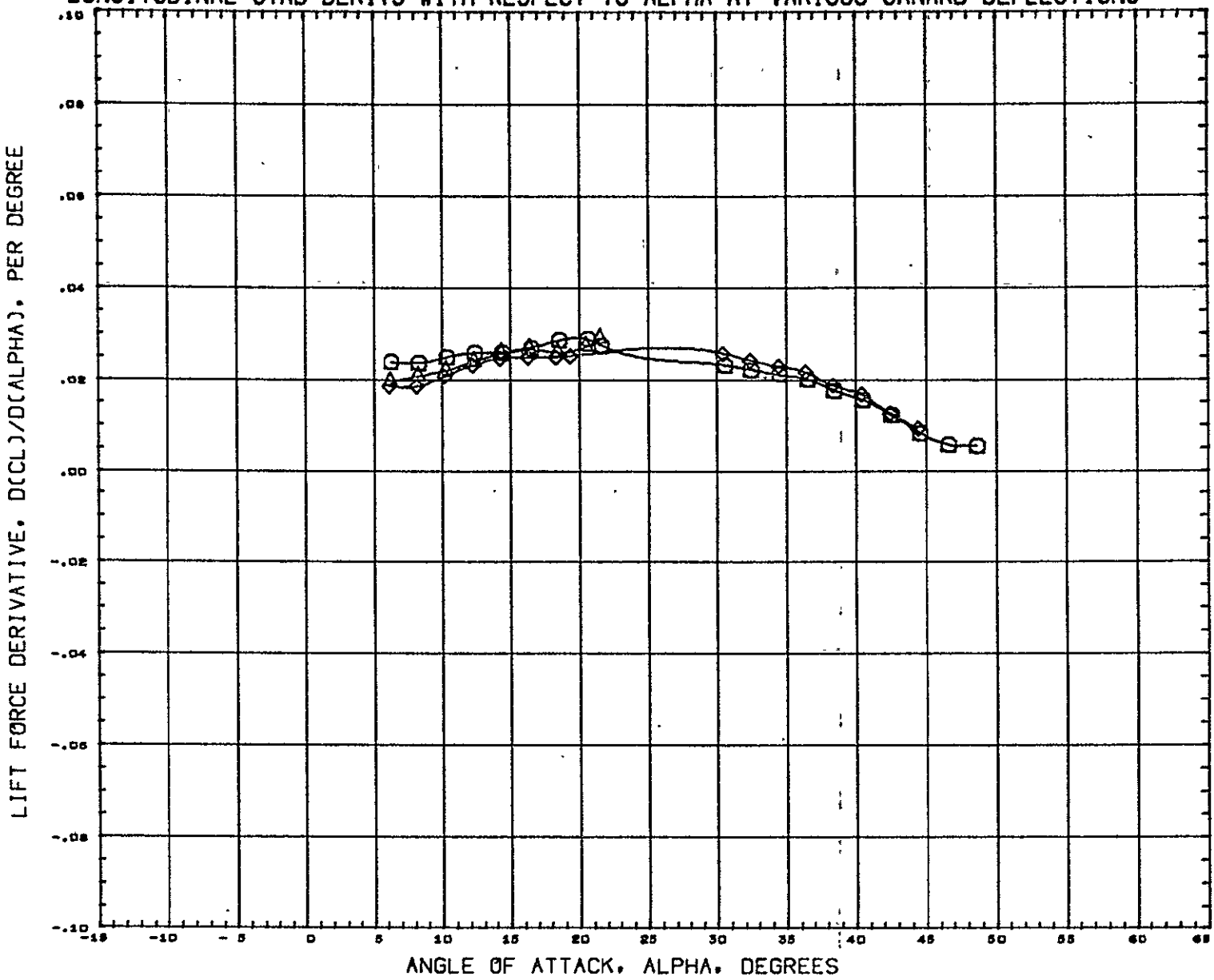


SYMBOL	MACH		PARAMETRIC VALUES		
○	0.901	BETA	0.000	DEL	0.000
△	0.955	DER	0.000	DCL	15.000
◇	1.051	DCR	15.000	ELEVON	0.000
□	1.203	CANARD	15.000	AILRON	0.000
▽	1.460				
D	1.958	DATA HIST. CODE		MVR*E*GG	

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0890	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

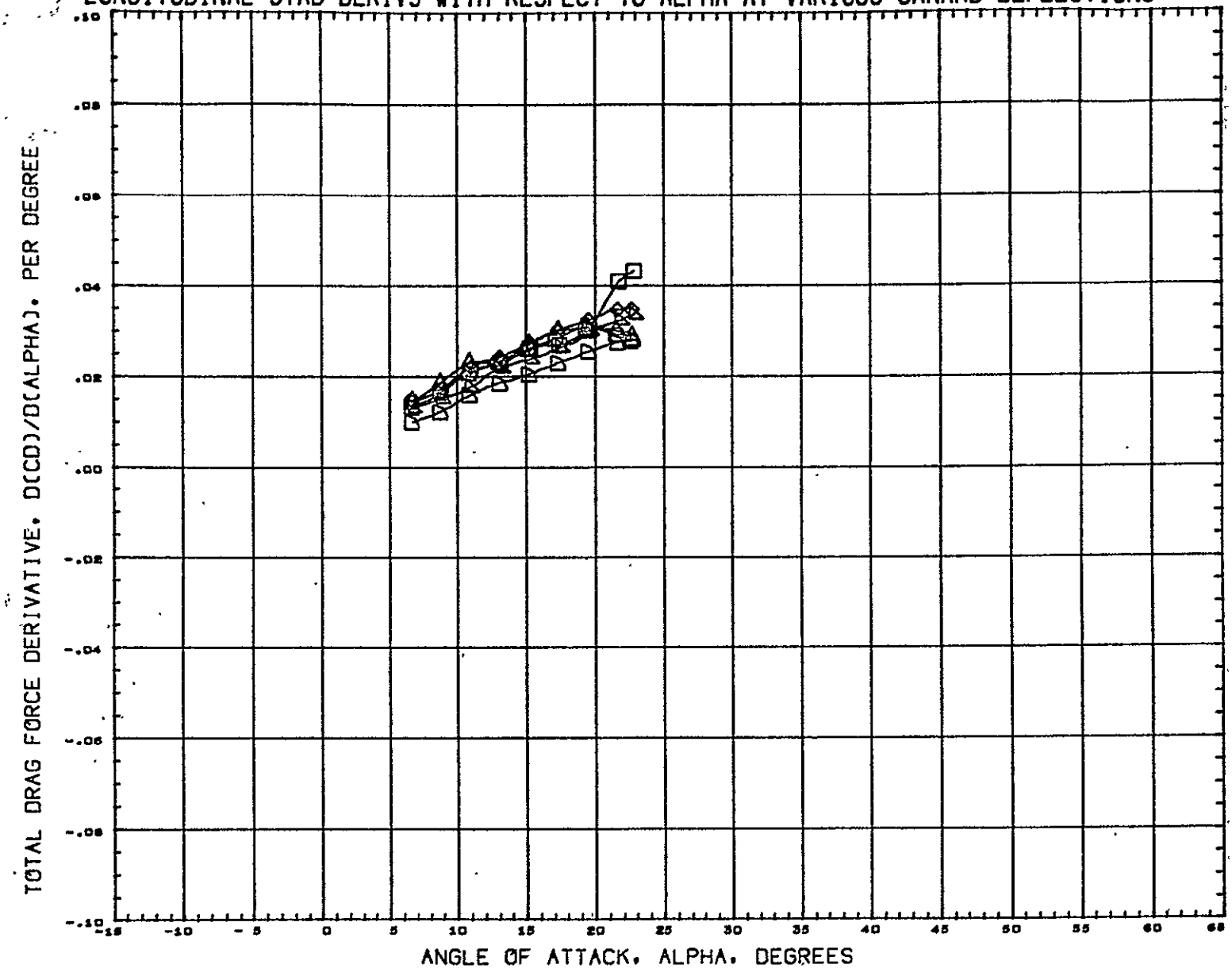


SYMBOL	MACH	PARAMETRIC VALUES			
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	15.000
◇	4.960	DCR	15.000	ELEVON	0.000
		CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR*E*GG

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

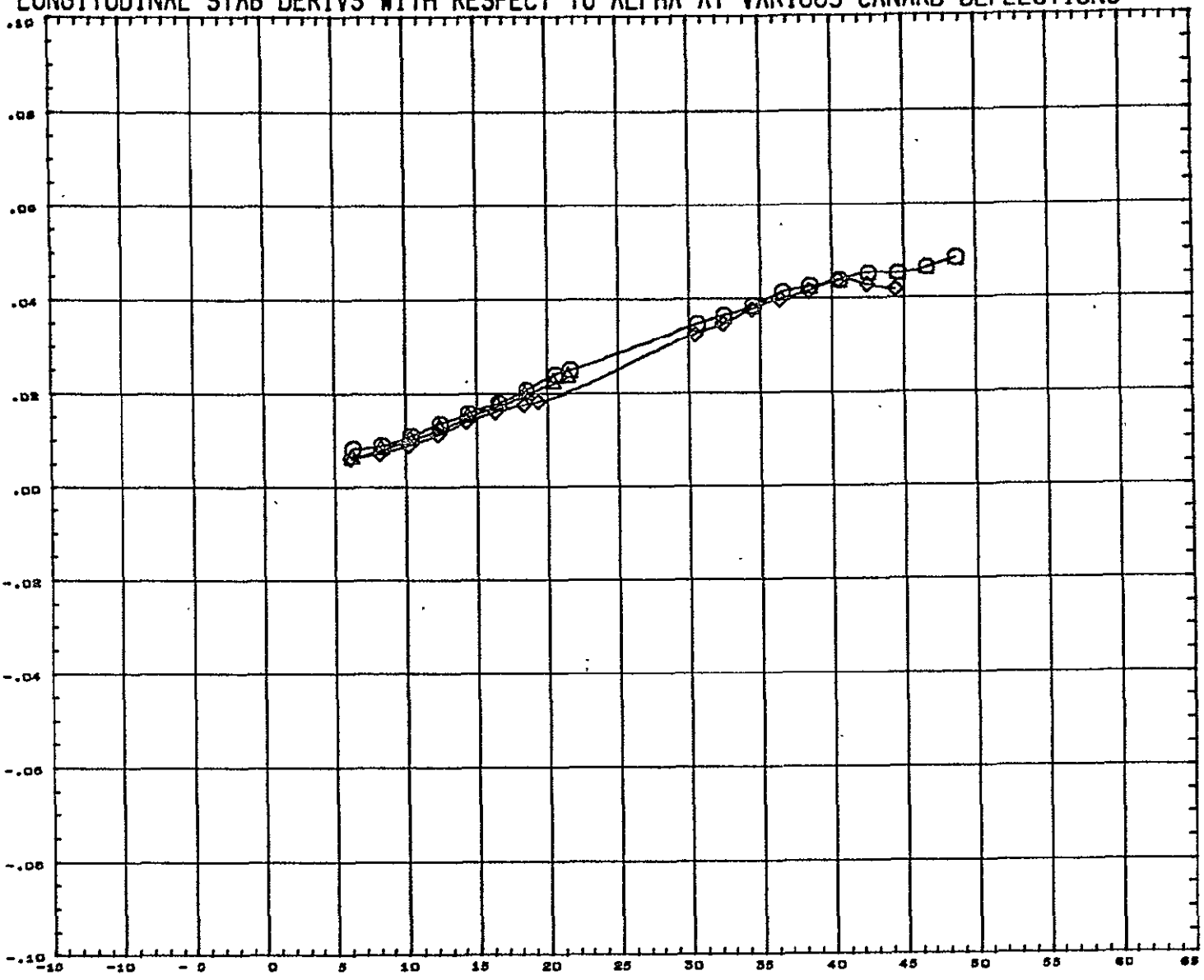


SYMBOL	MACH		PARAMETRIC VALUES		
○	0.901	BETA	0.000	DEL	0.000
△	0.955	DER	0.000	DCL	15.000
◇	1.051	DCR	15.000	ELEVON	0.000
□	1.203	CANARD	15.000	AILRON	0.000
▽	1.460				
D	1.958	DATA HIST. CODE	MVR*E*GG		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



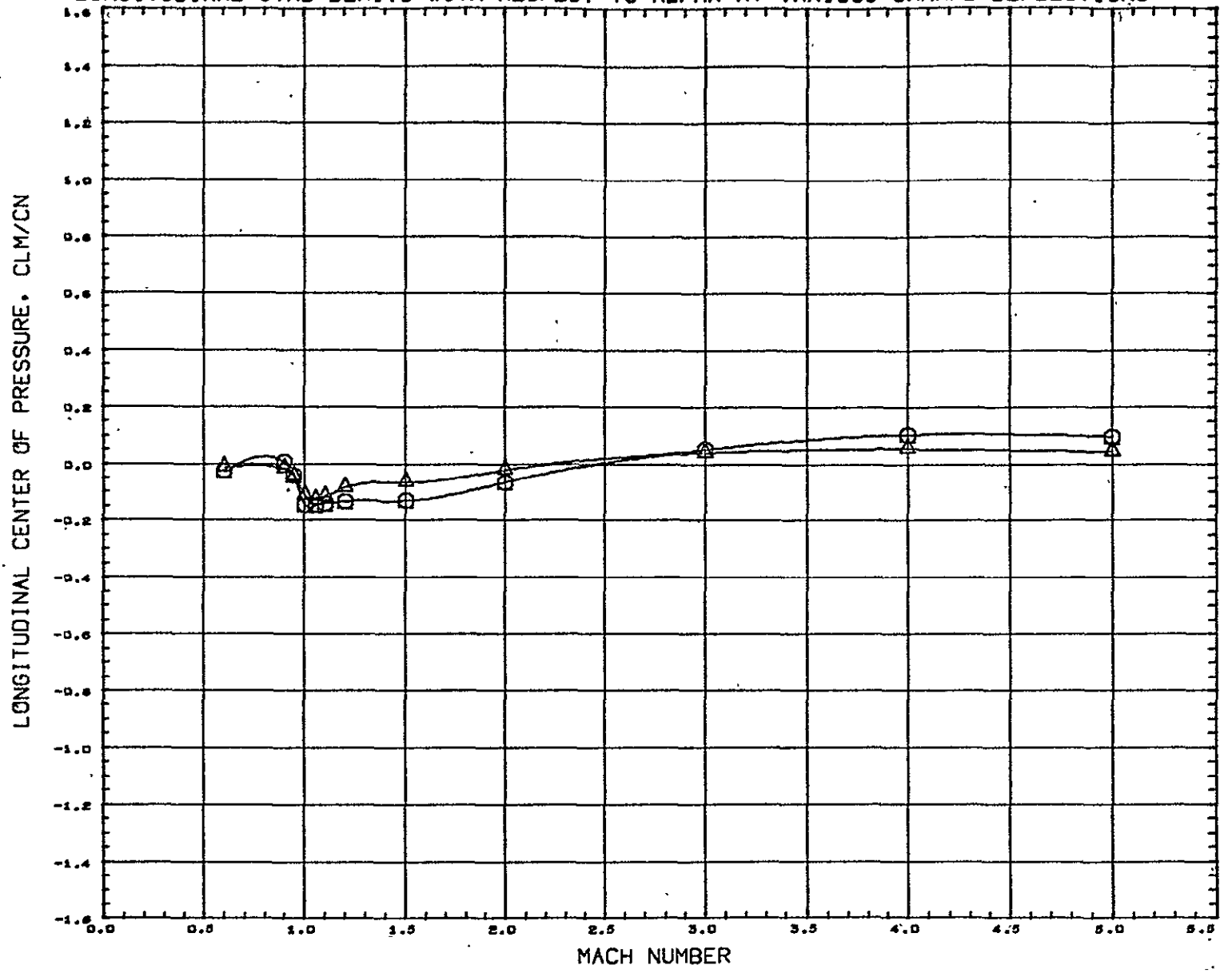
SYMBOL	MACH		PARAMETRIC VALUES		
○	2.990	BETA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	15.000
◇	4.960	DCR	15.000	ELEVON	0.000
		CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR*E*GG

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA		PARAMETRIC VALUES		
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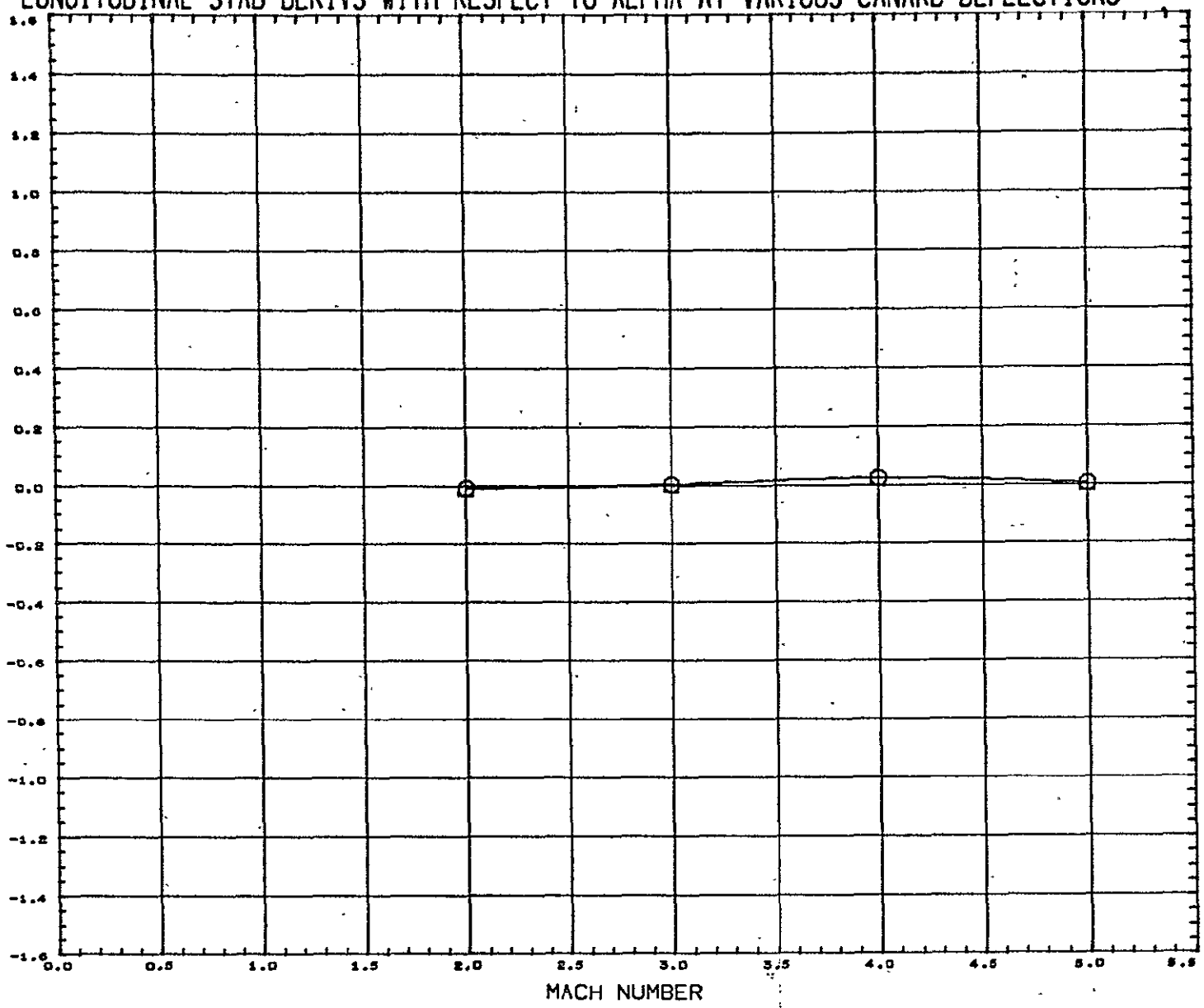
△	20.000	DER	0.000	DCL	0.000
		DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0038	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
O	30.000

PARAMETRIC VALUES

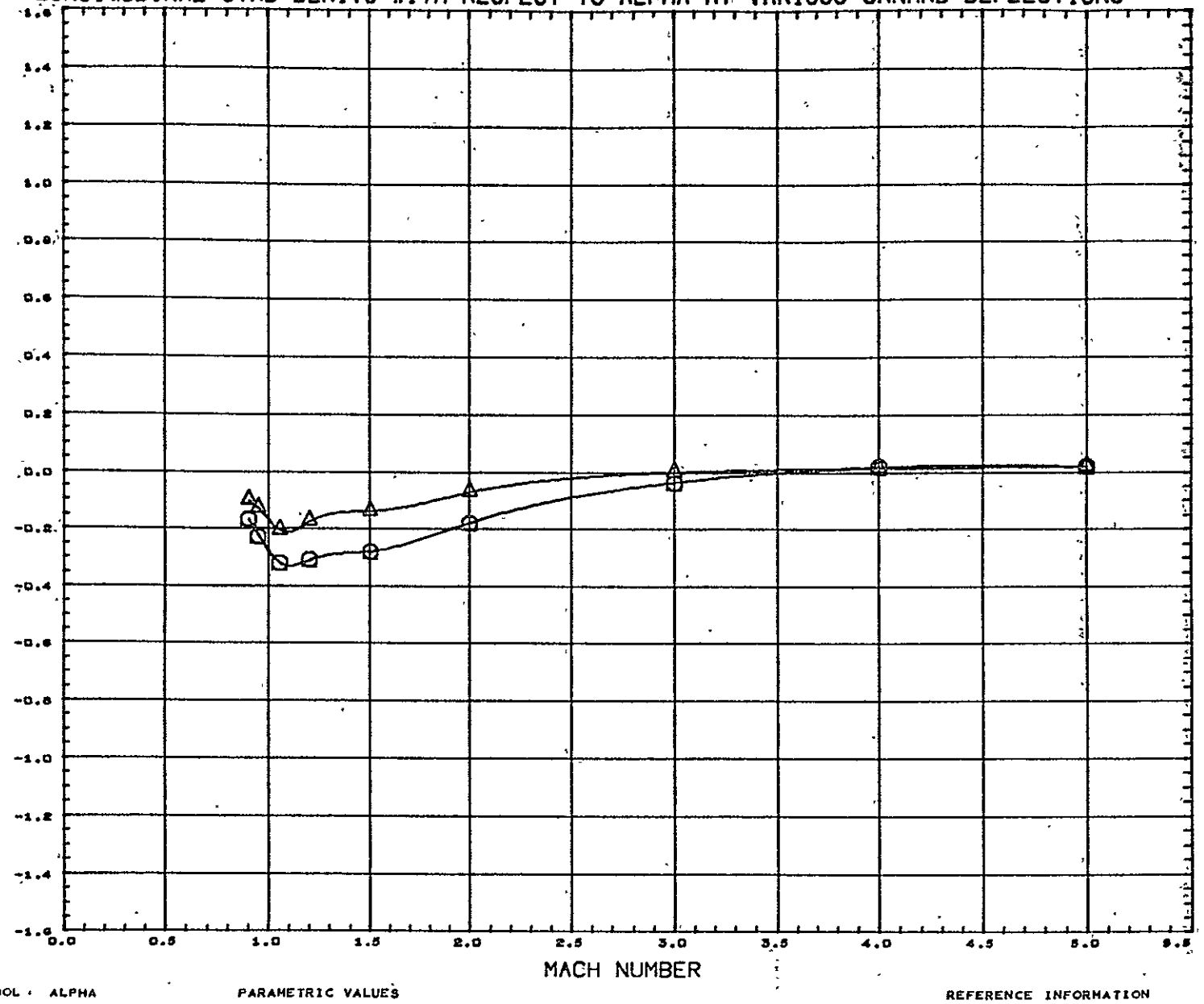
BETA	0.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

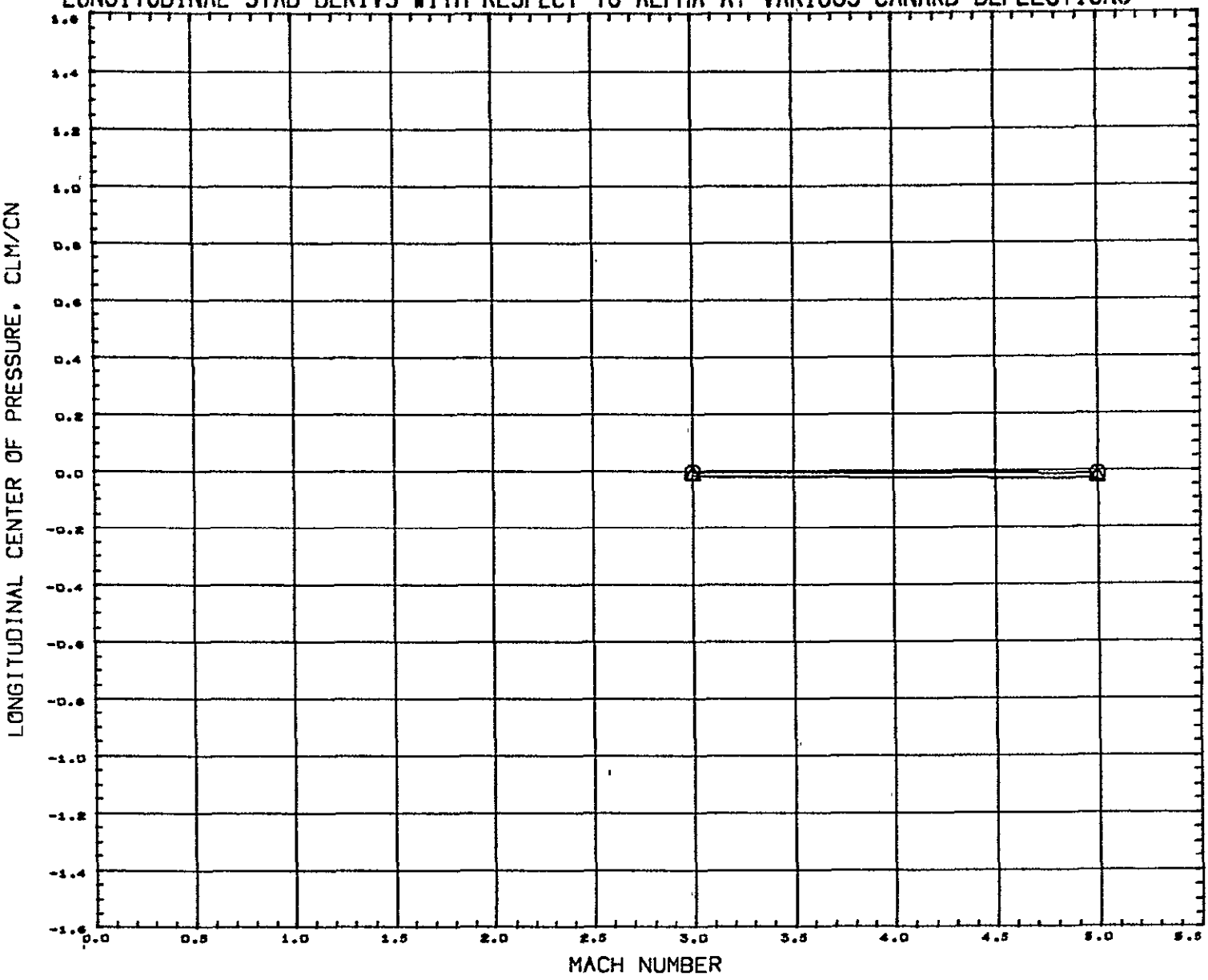
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

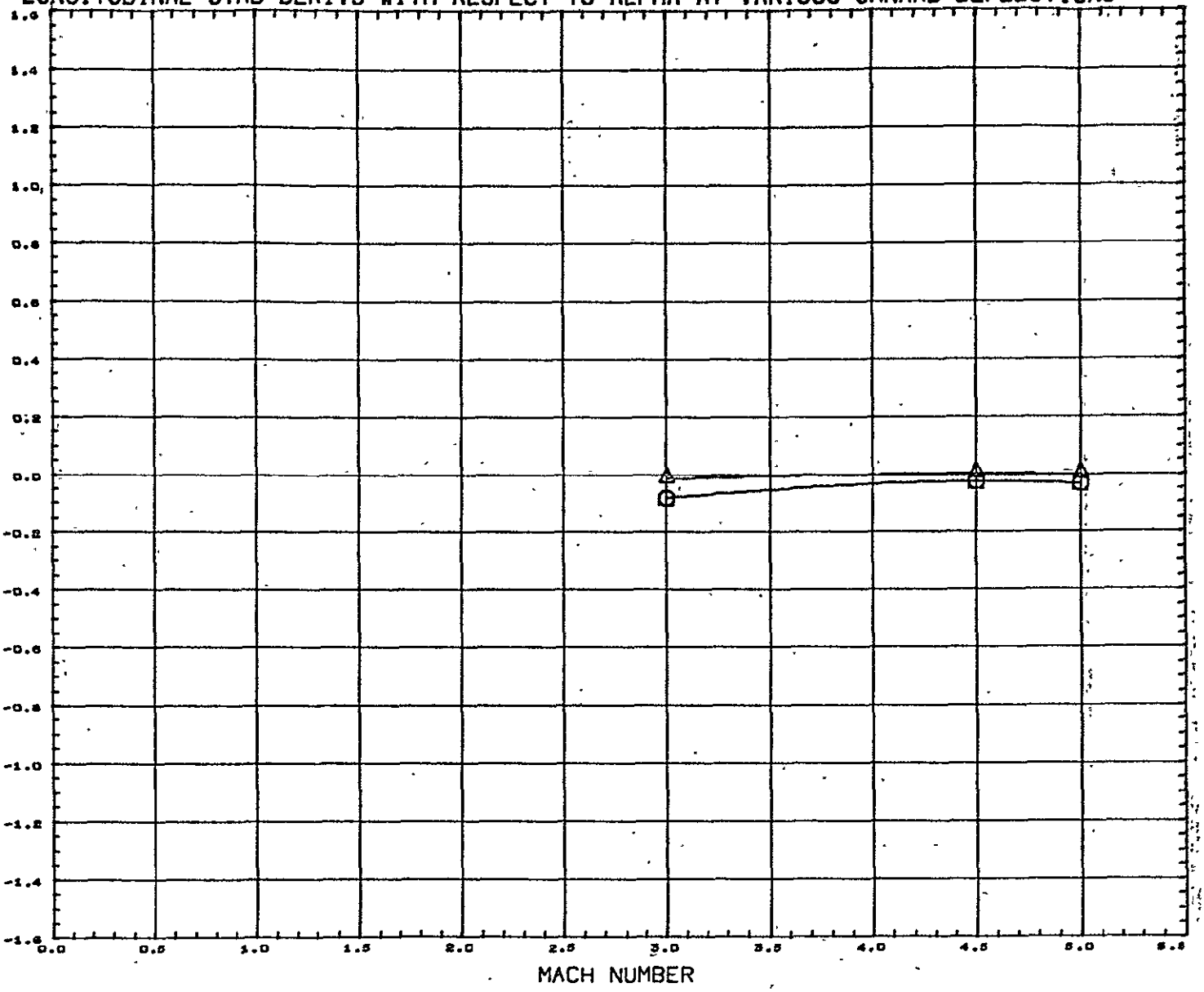
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

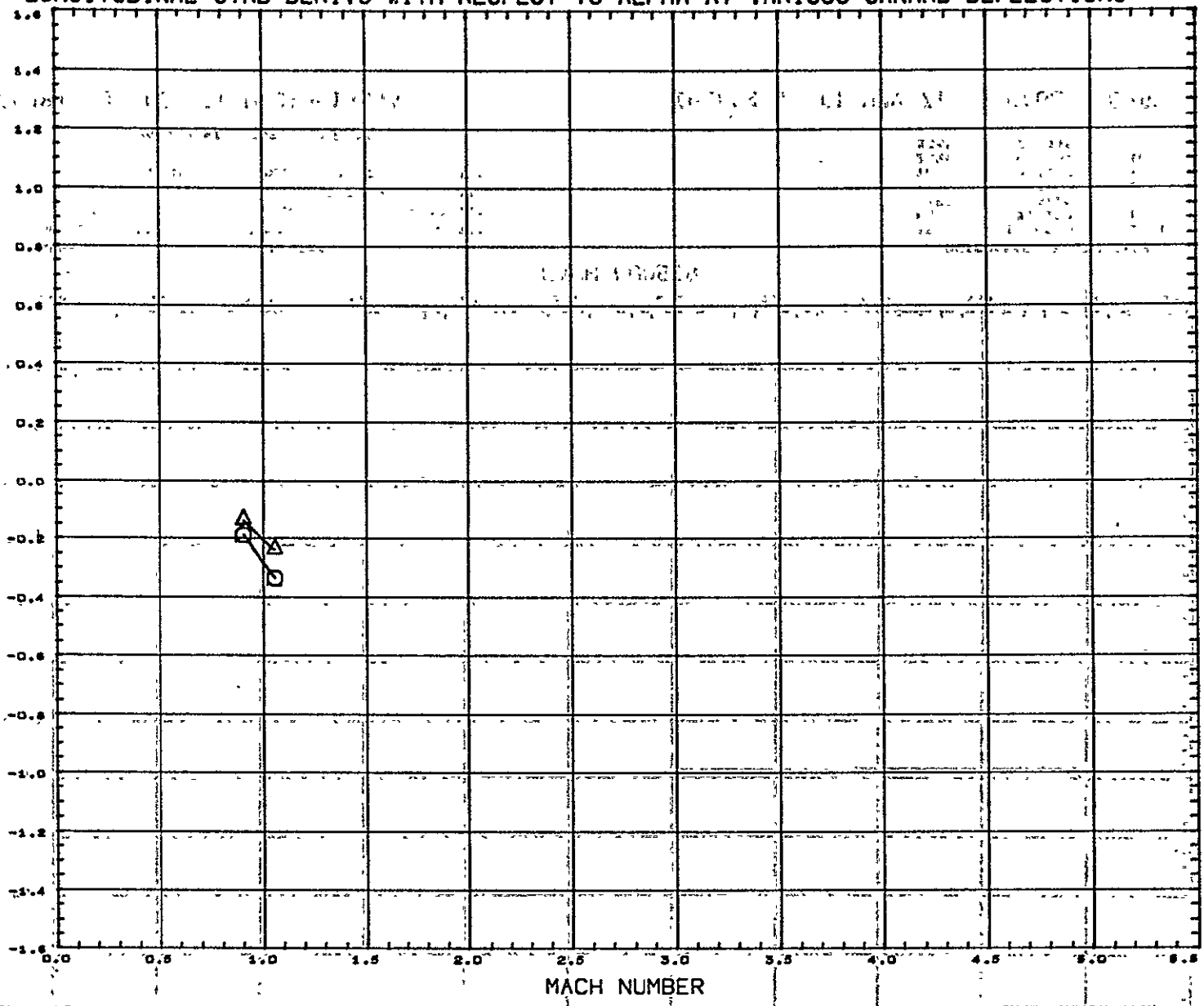
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE HVR4E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

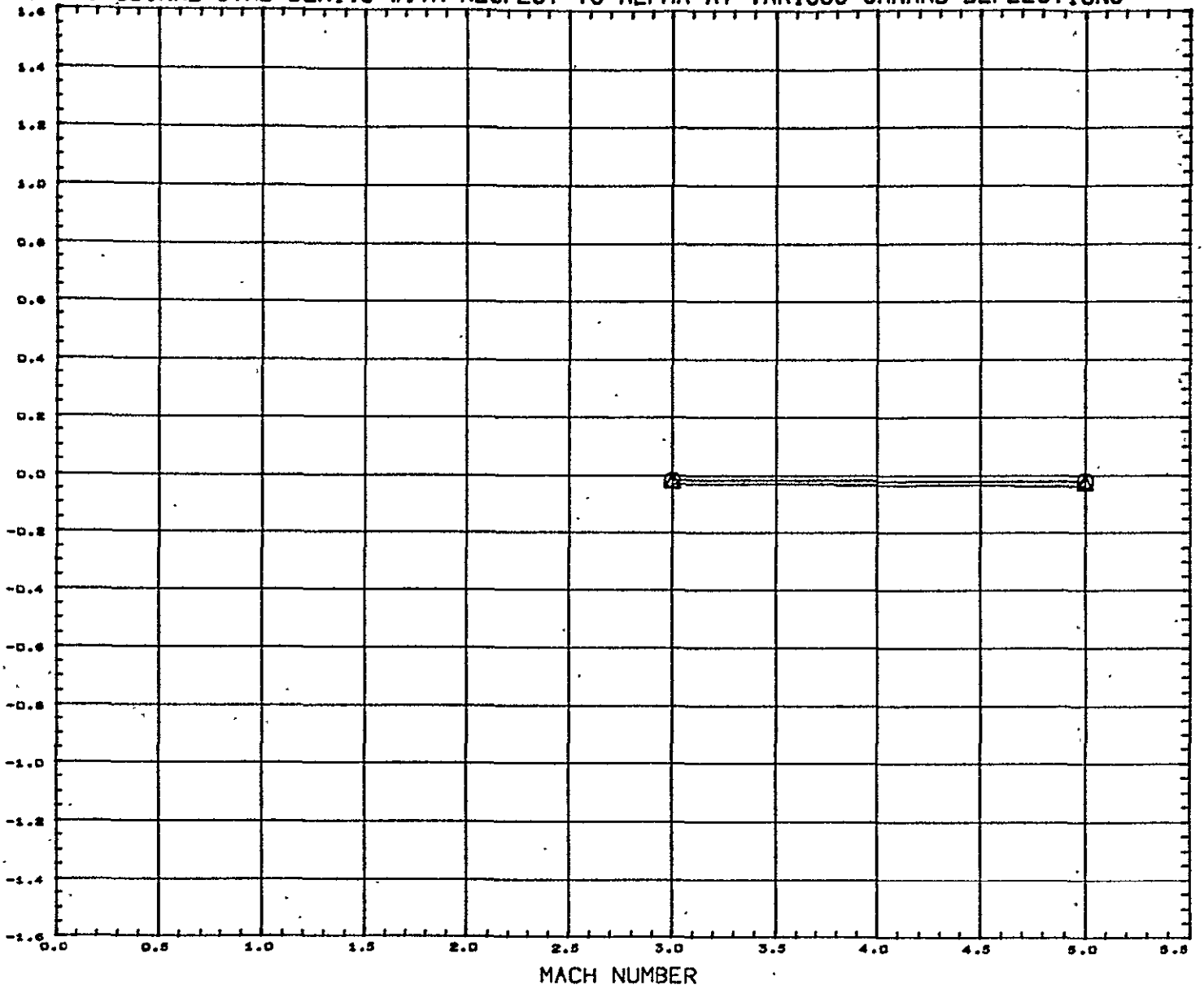


SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	DCL	- 60.000
		DCR	- 60.000	ELEVON	0.000
		CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

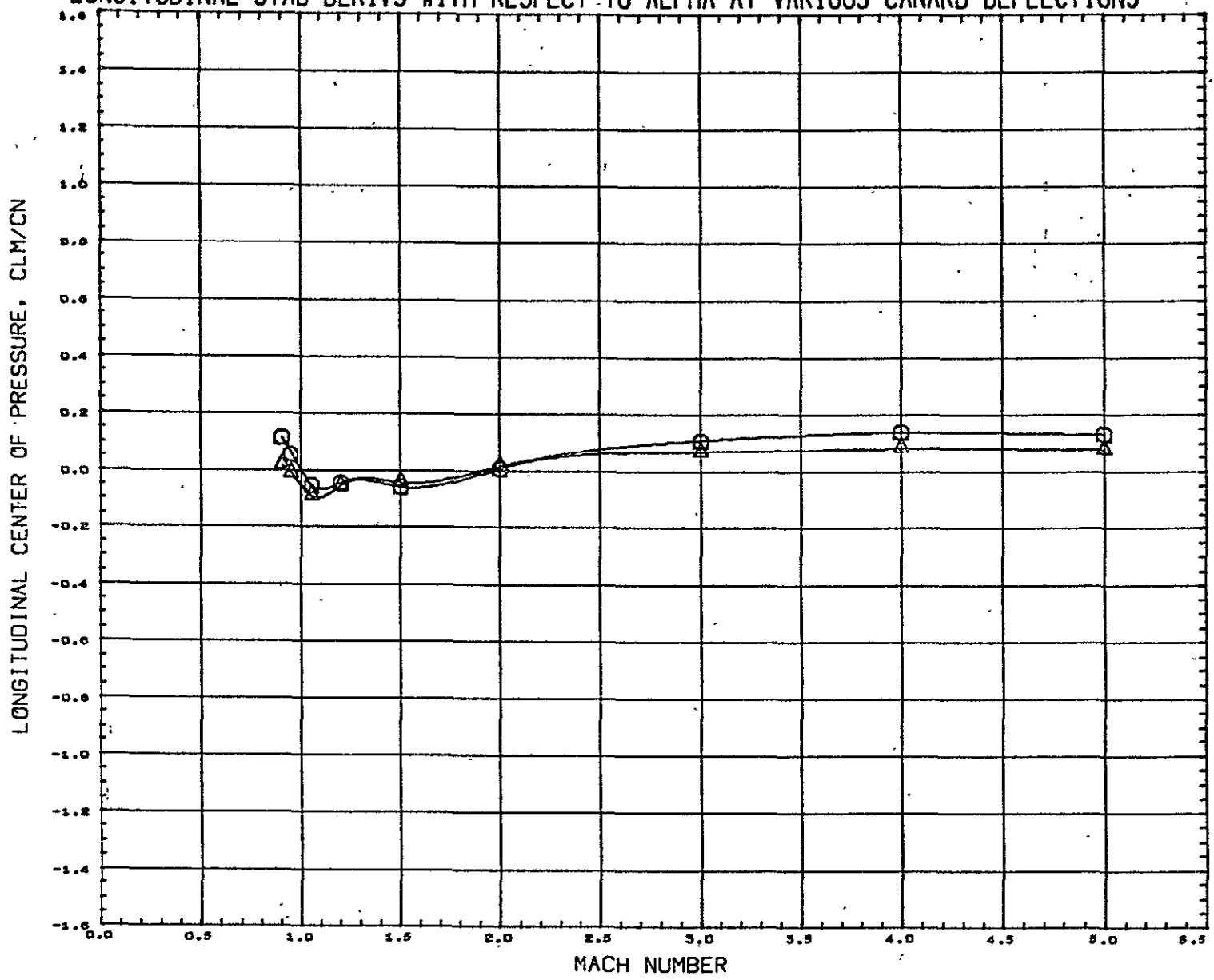
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE HVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

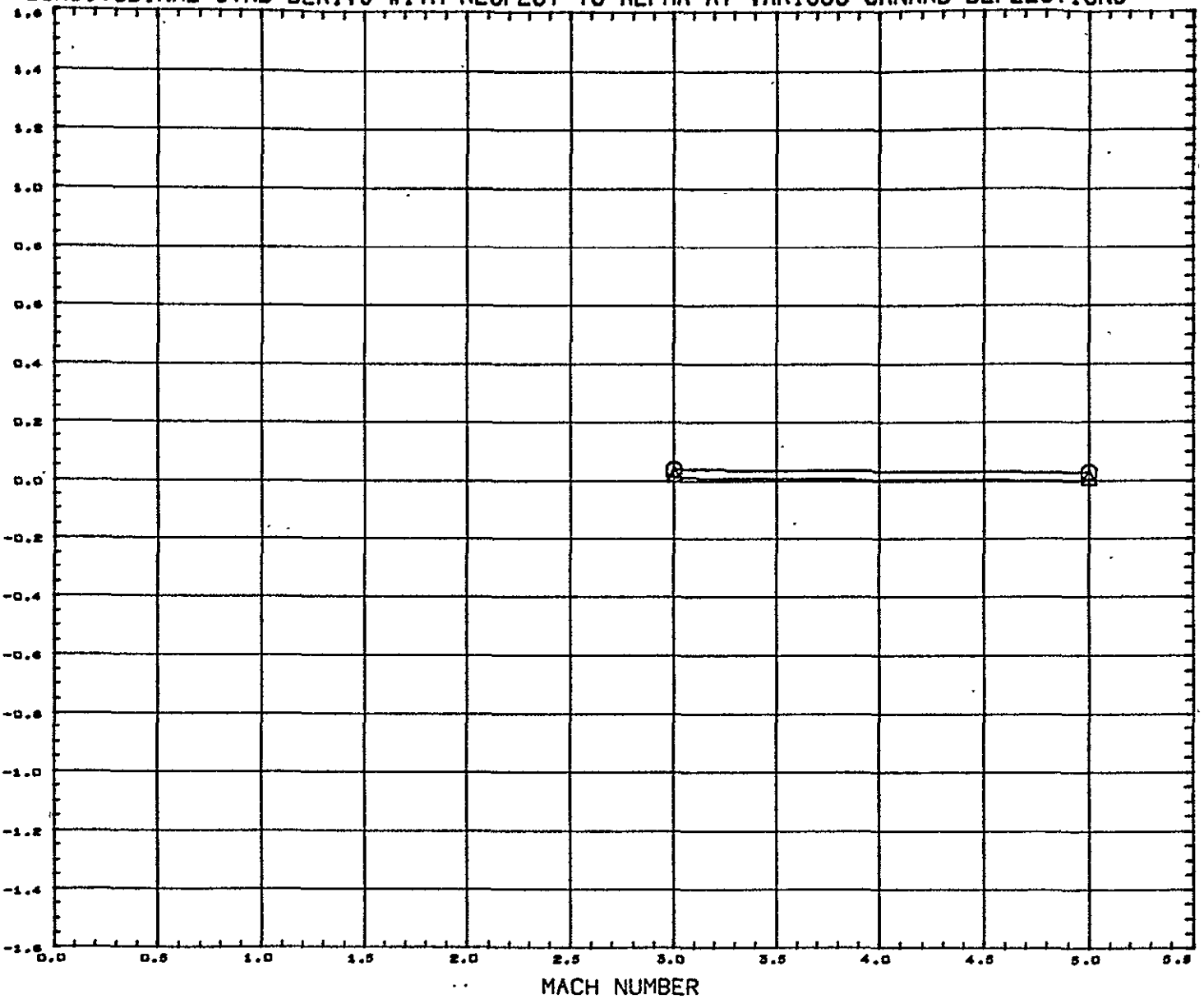
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR*EI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

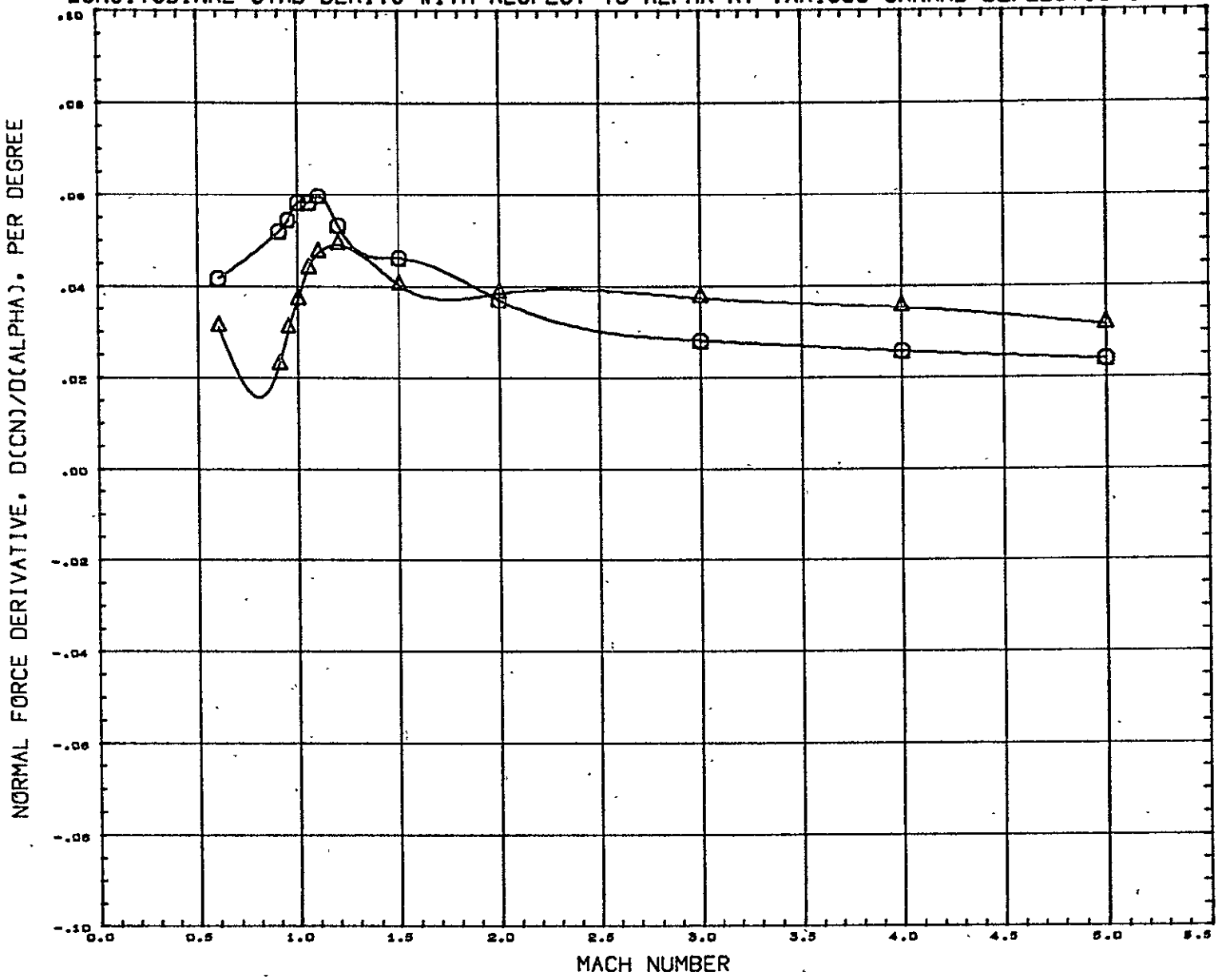
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR*E1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

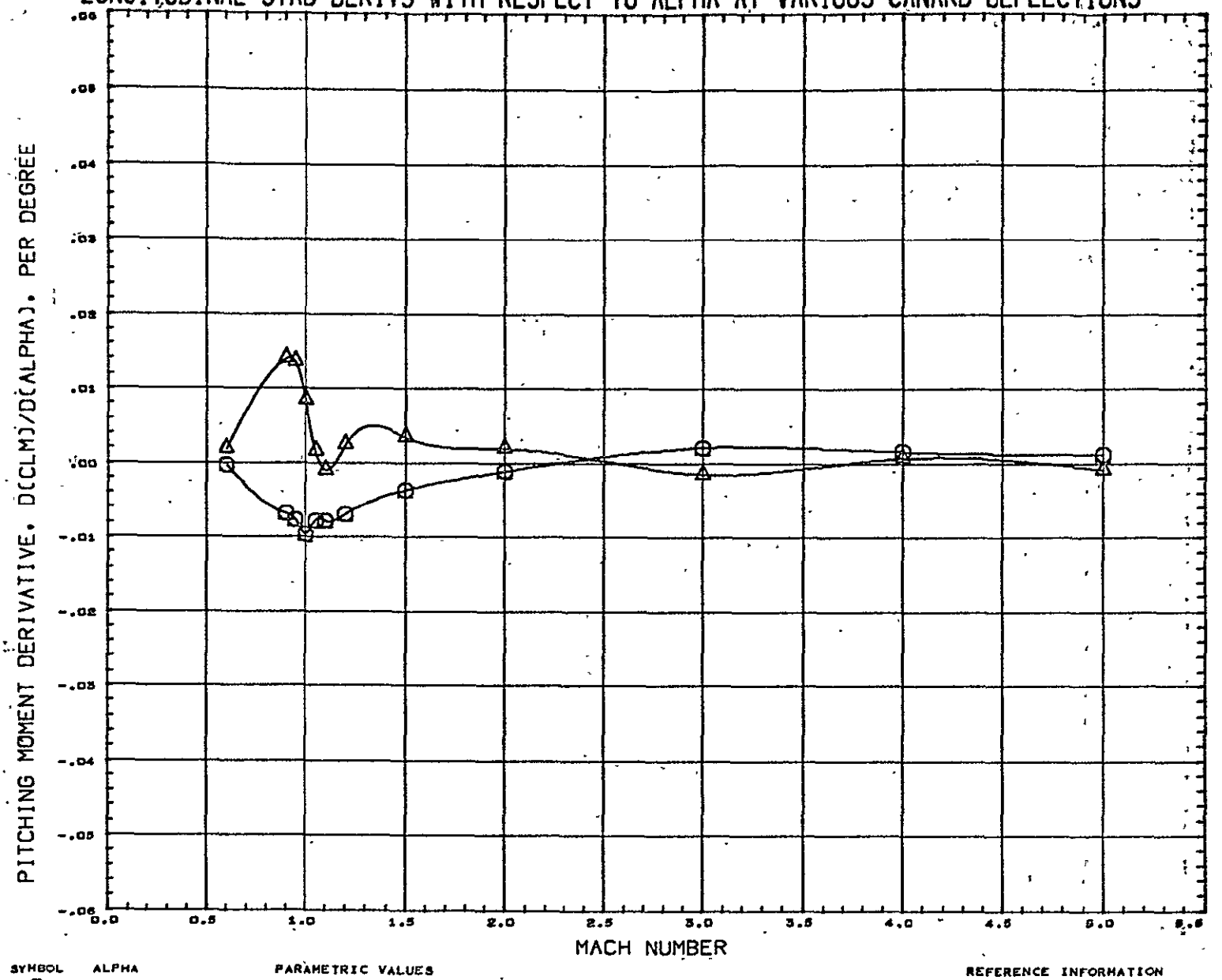
BETA	0.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

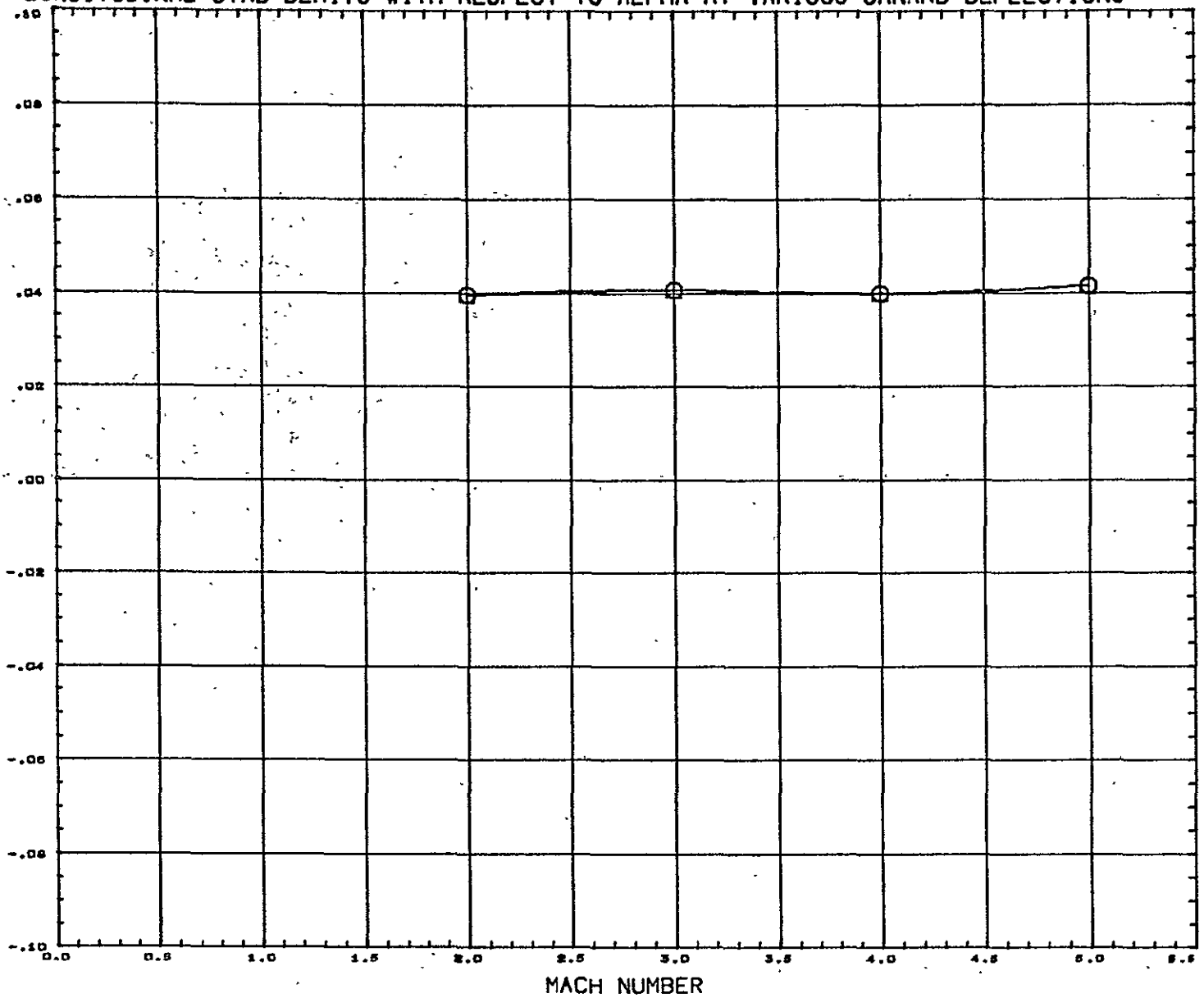
BETA	0.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
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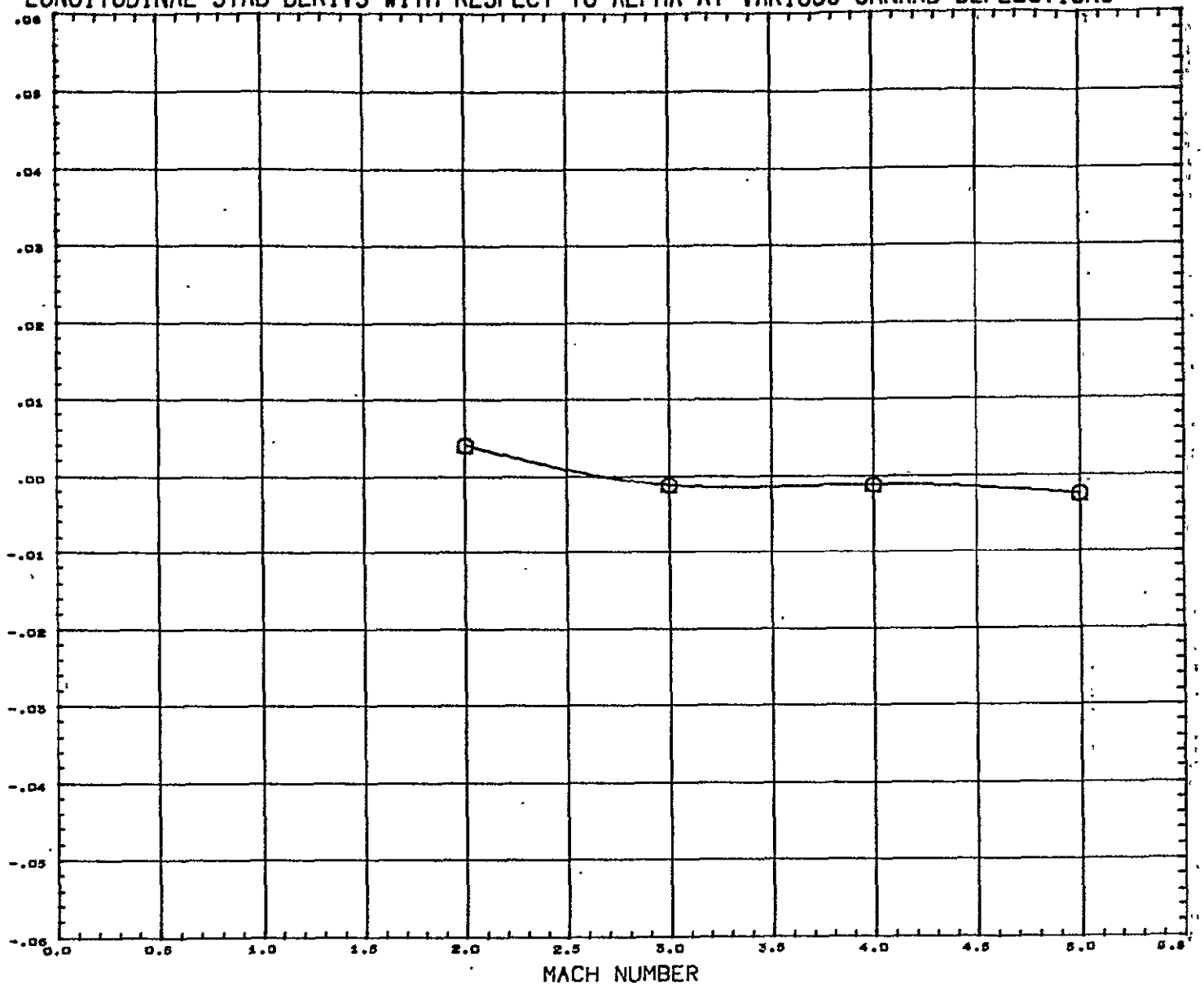
		DER	0.000	DCL	0.000
		DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR#EGI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



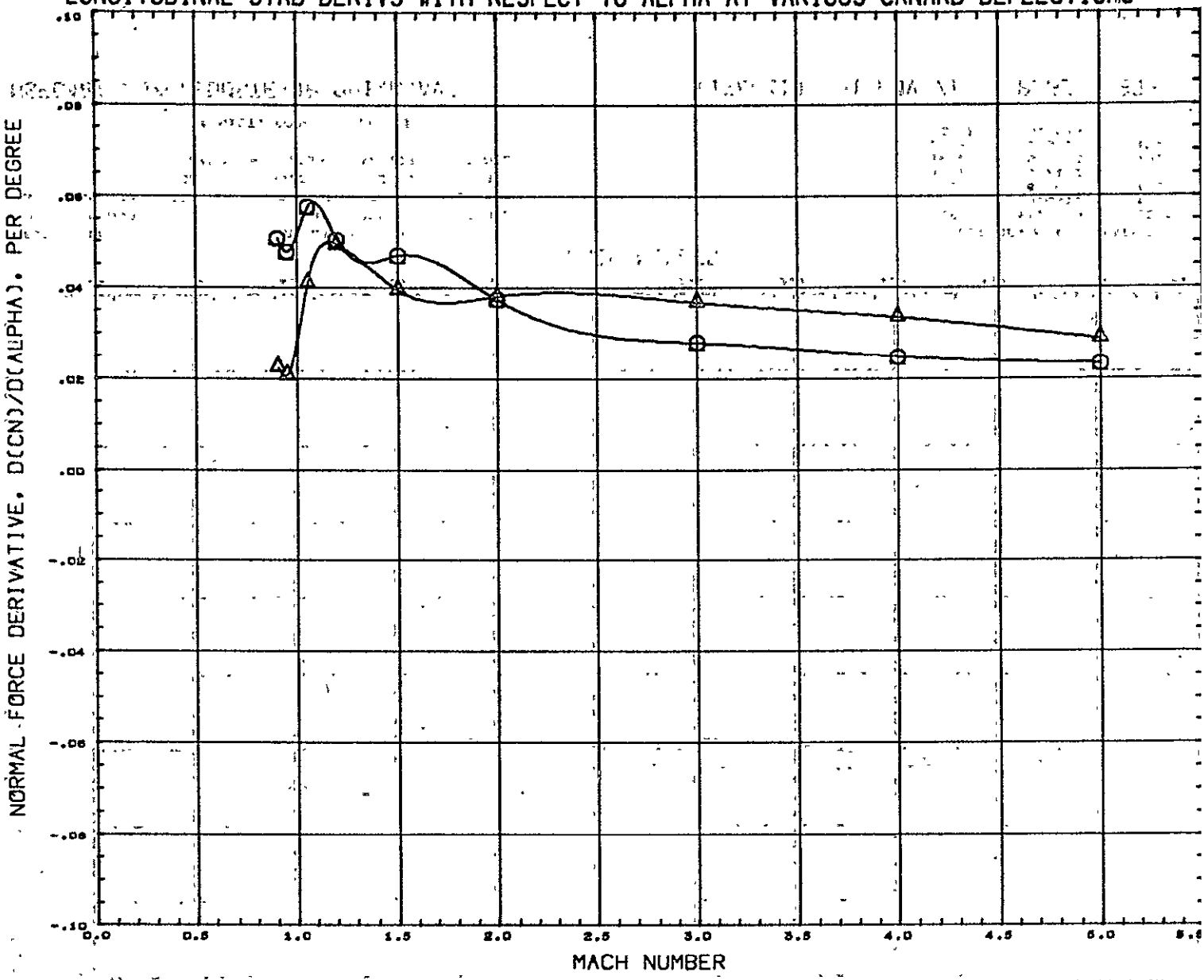
SYMBOL	ALPHA	PARAMETRIC VALUES			
O	30.000	BETA	0.000	DEL	0.000
		DER	0.000	DCL	0.000
		DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EG1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

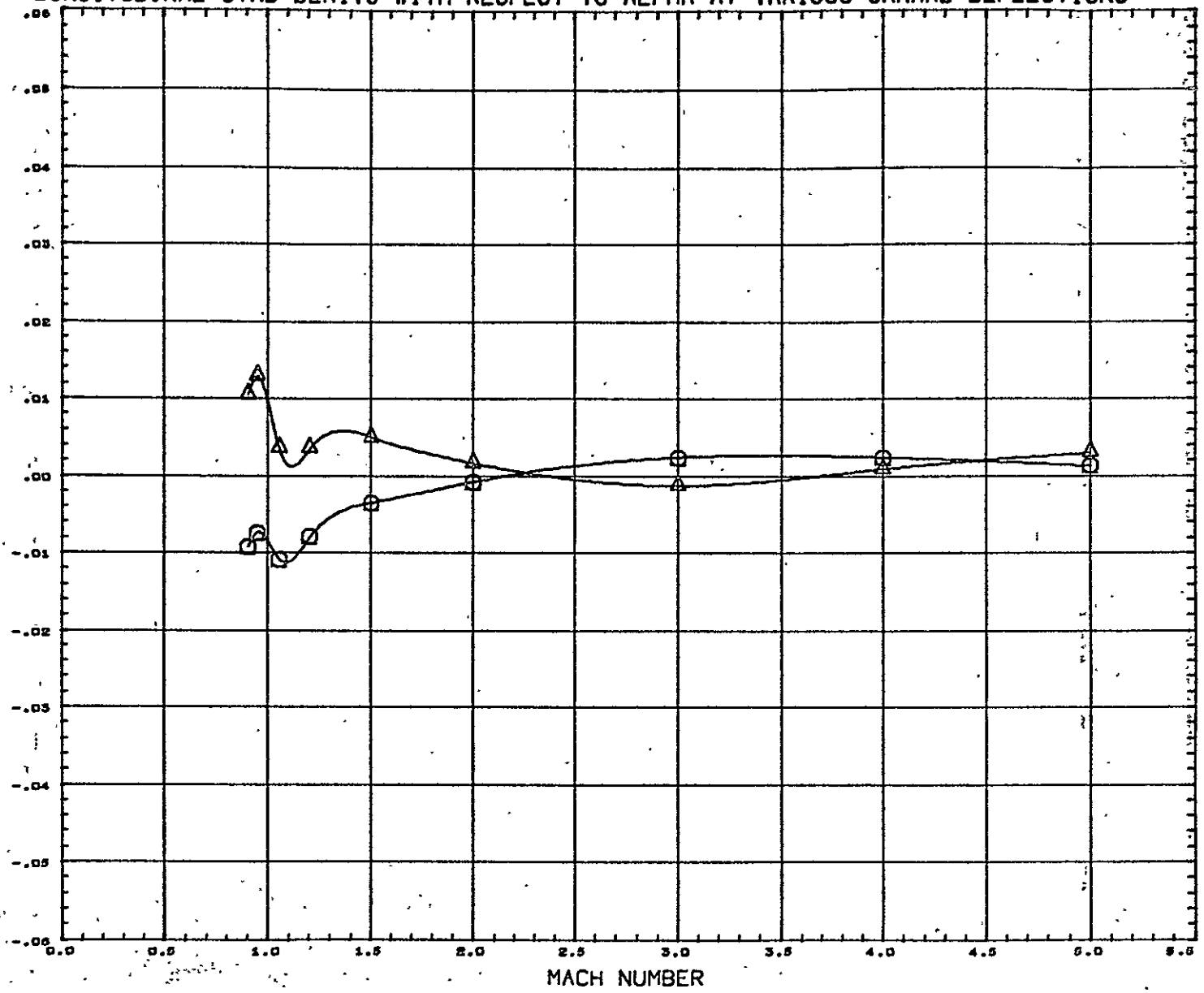
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE HVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

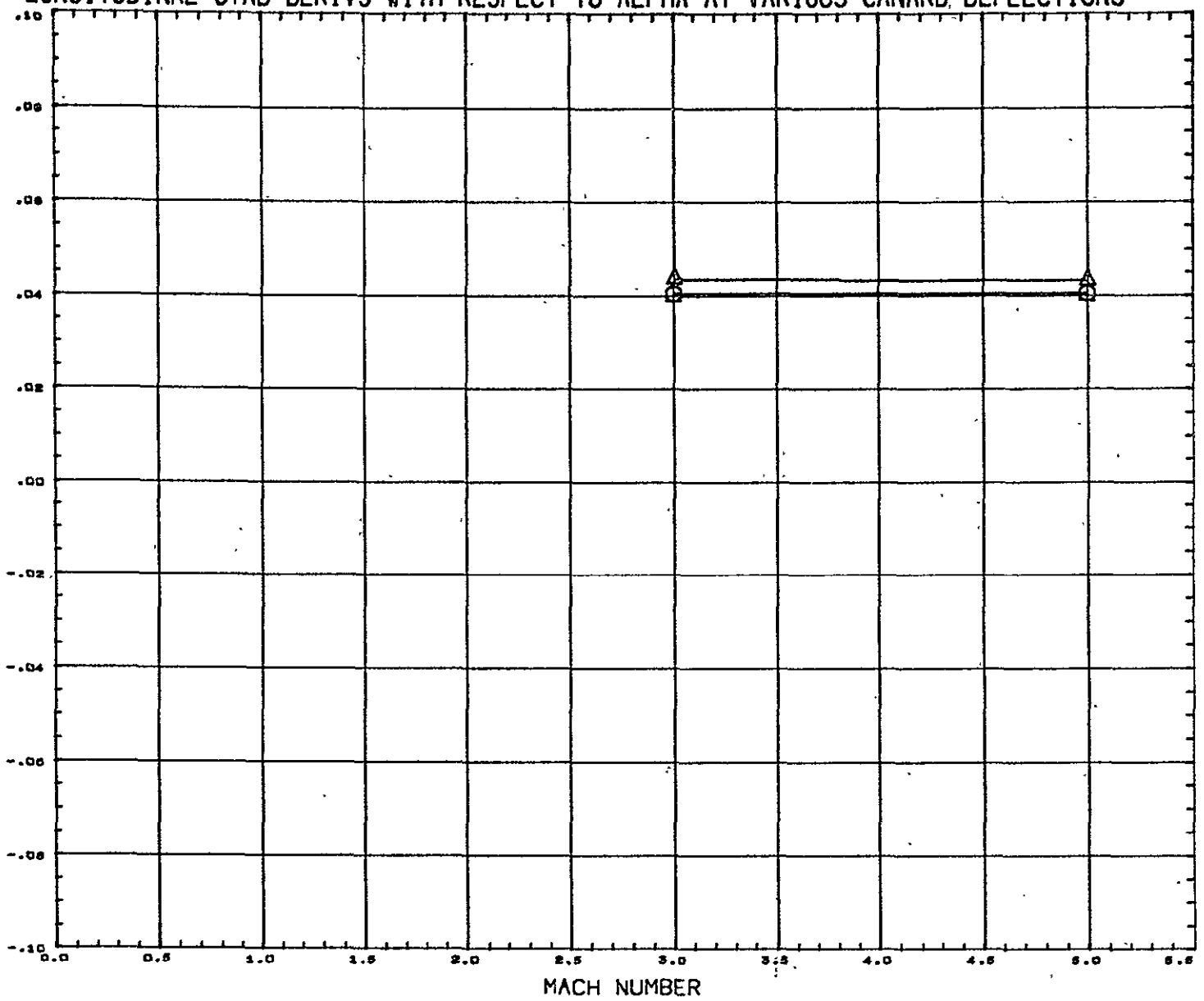


SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	DCL	- 30.000
		DCR	30.000	ELEVON	0.000
		CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	4.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

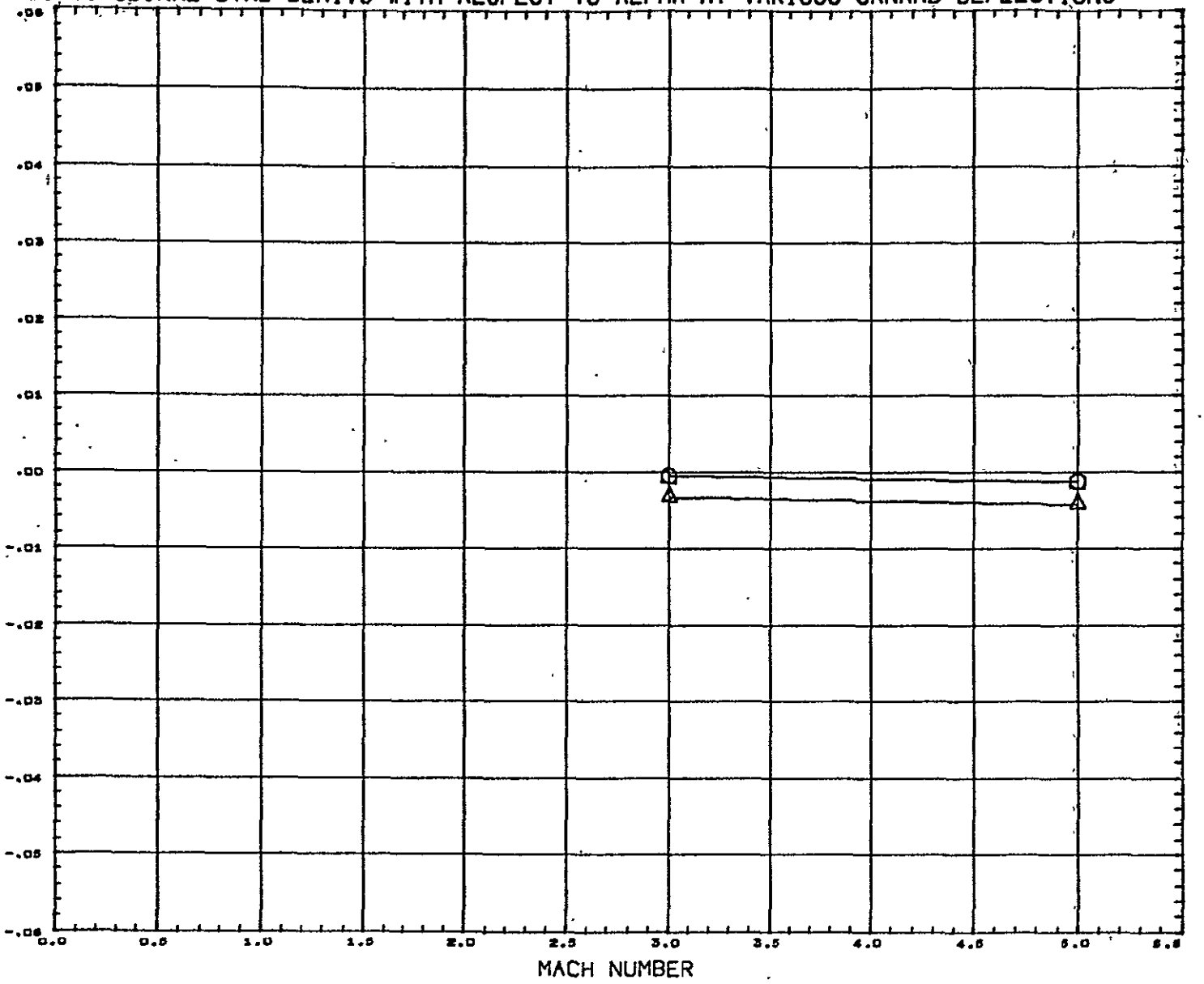
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE HVR4EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

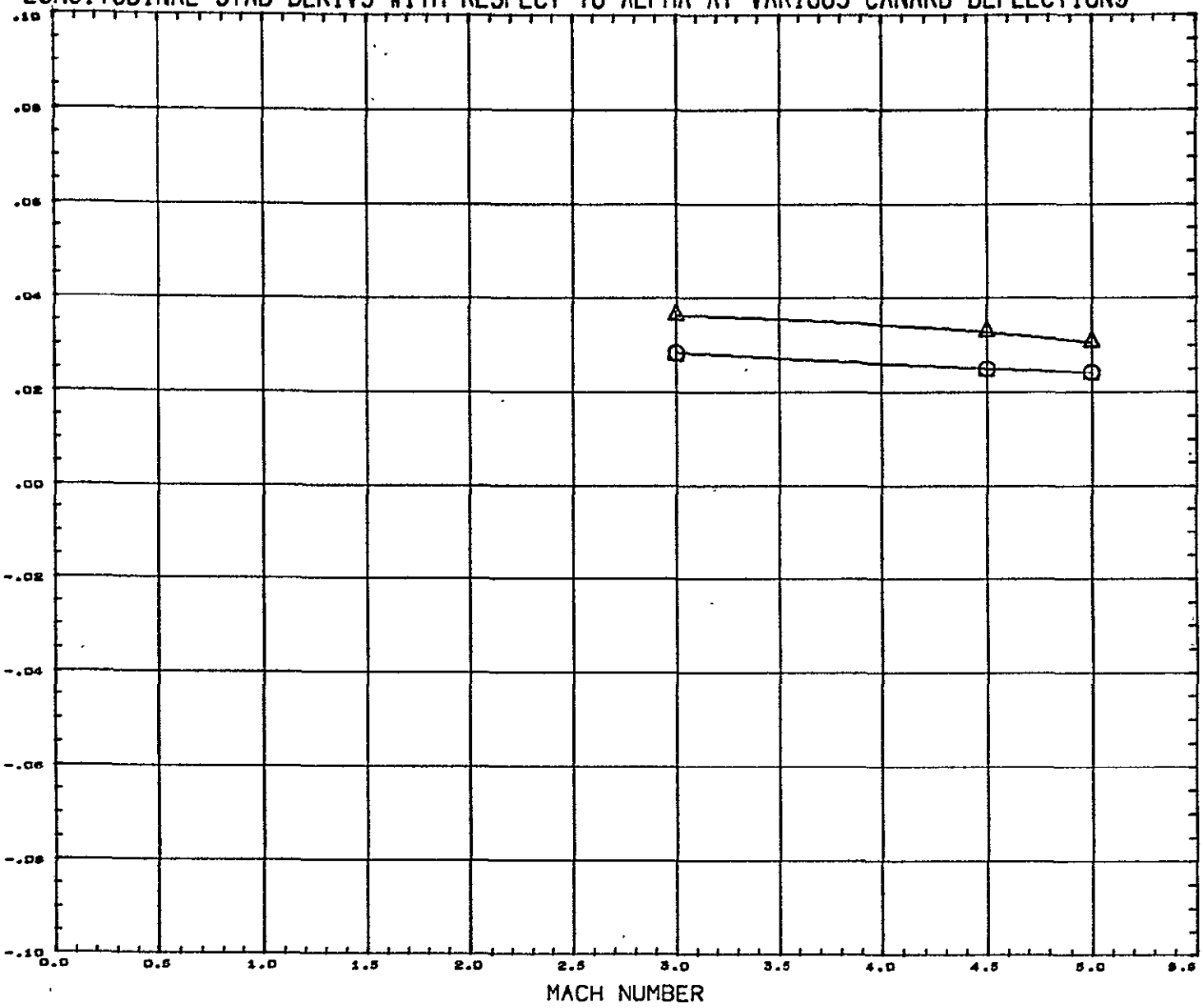
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0960	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

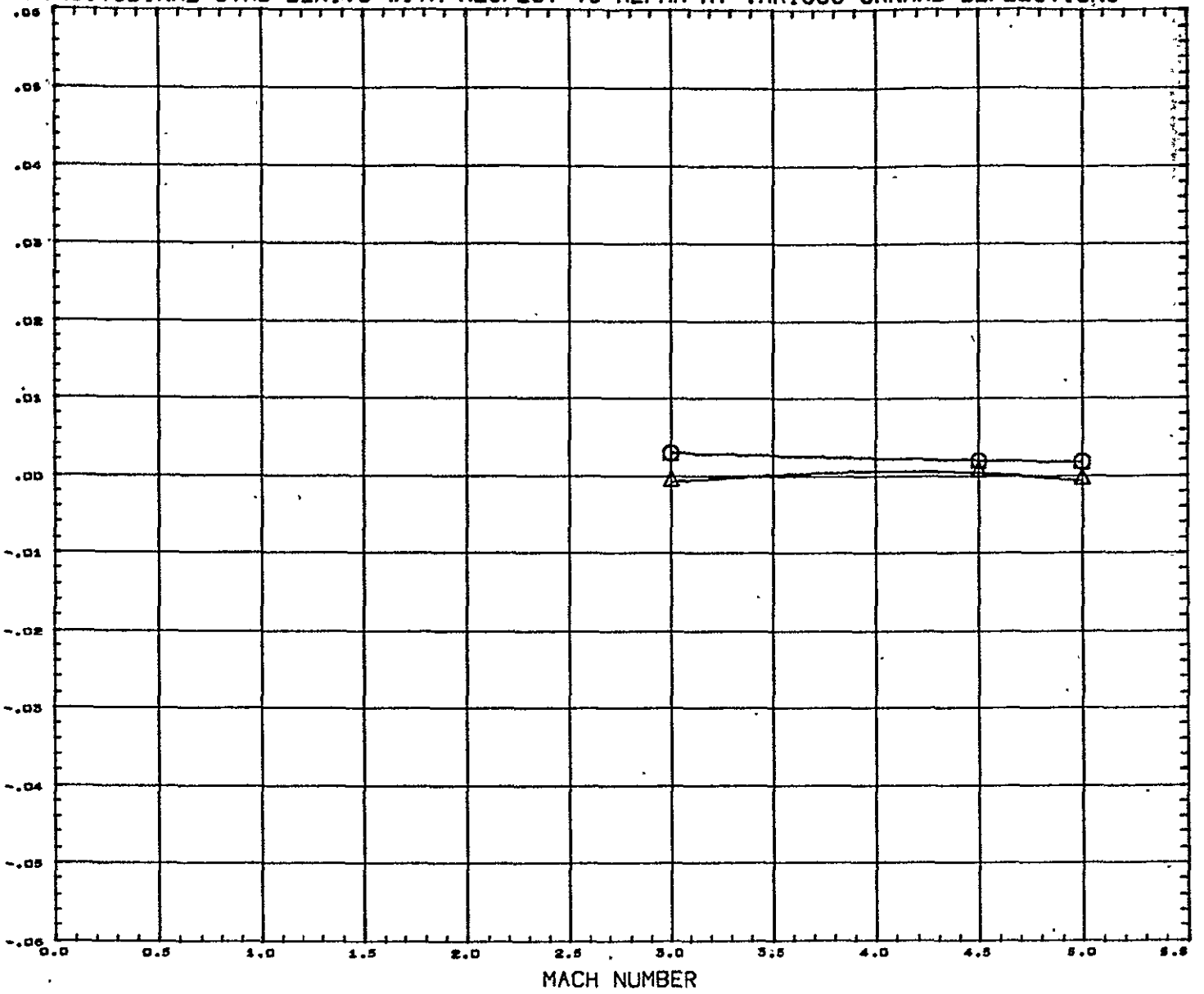
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE HVR#EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

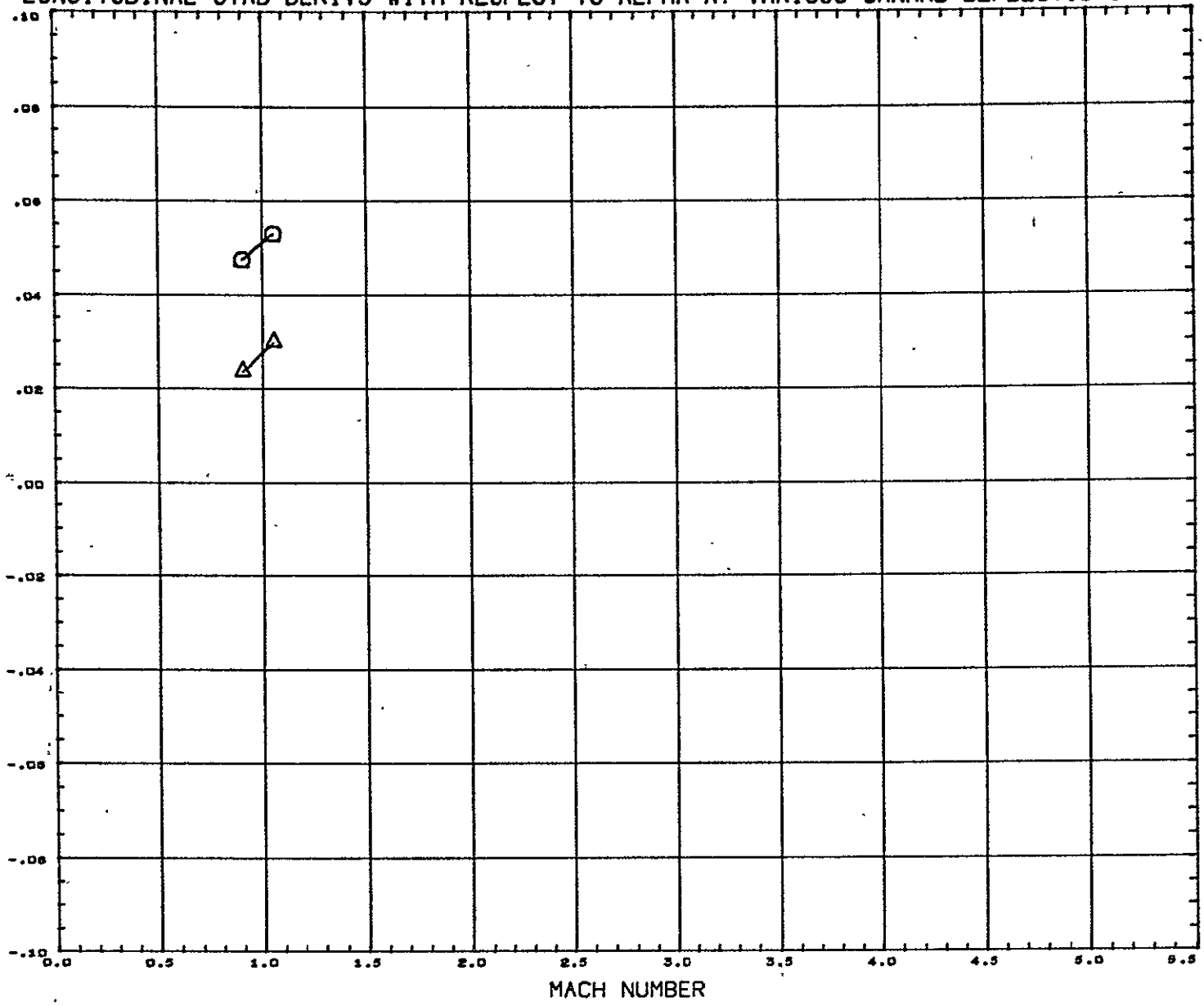
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

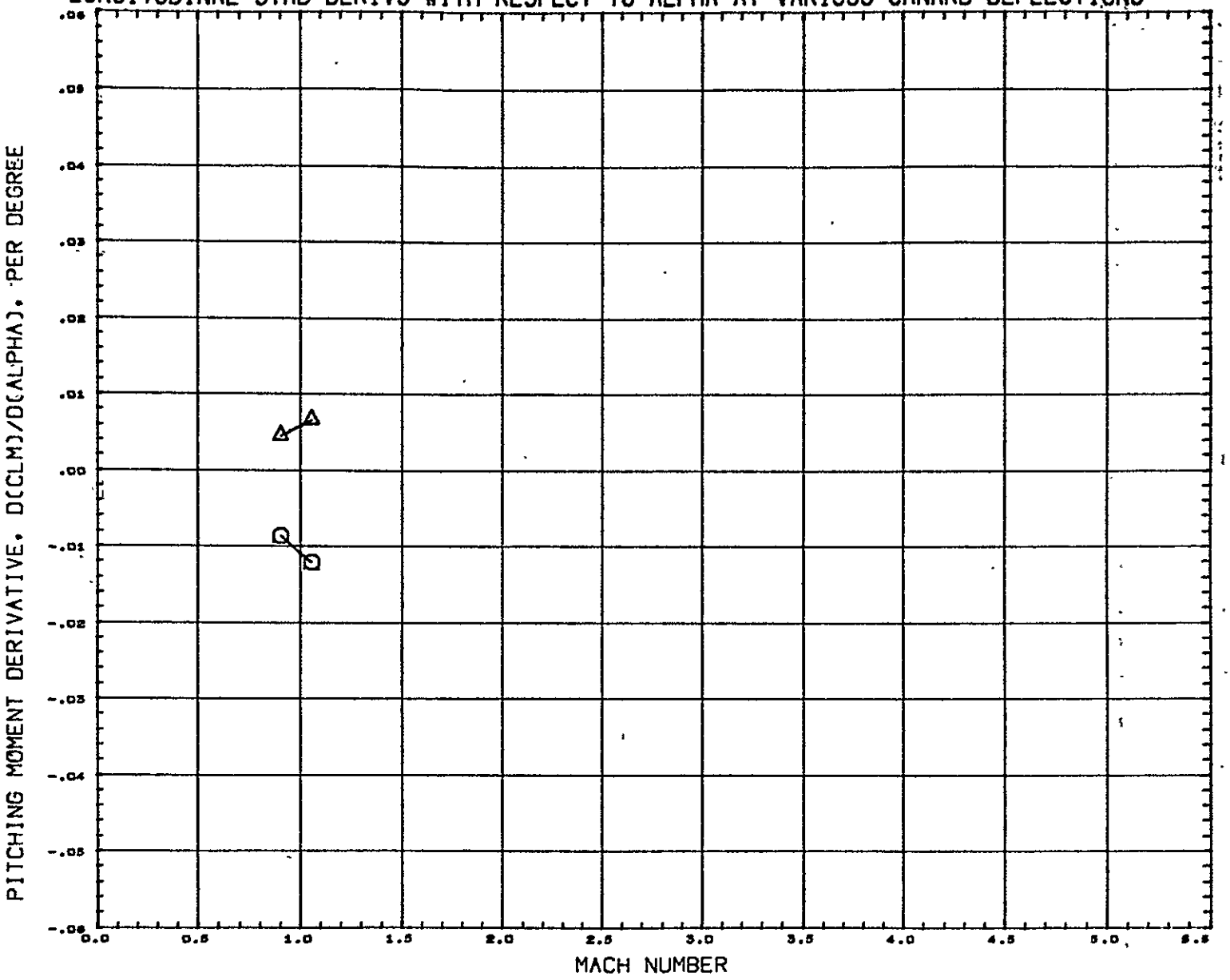
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE MVR#EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

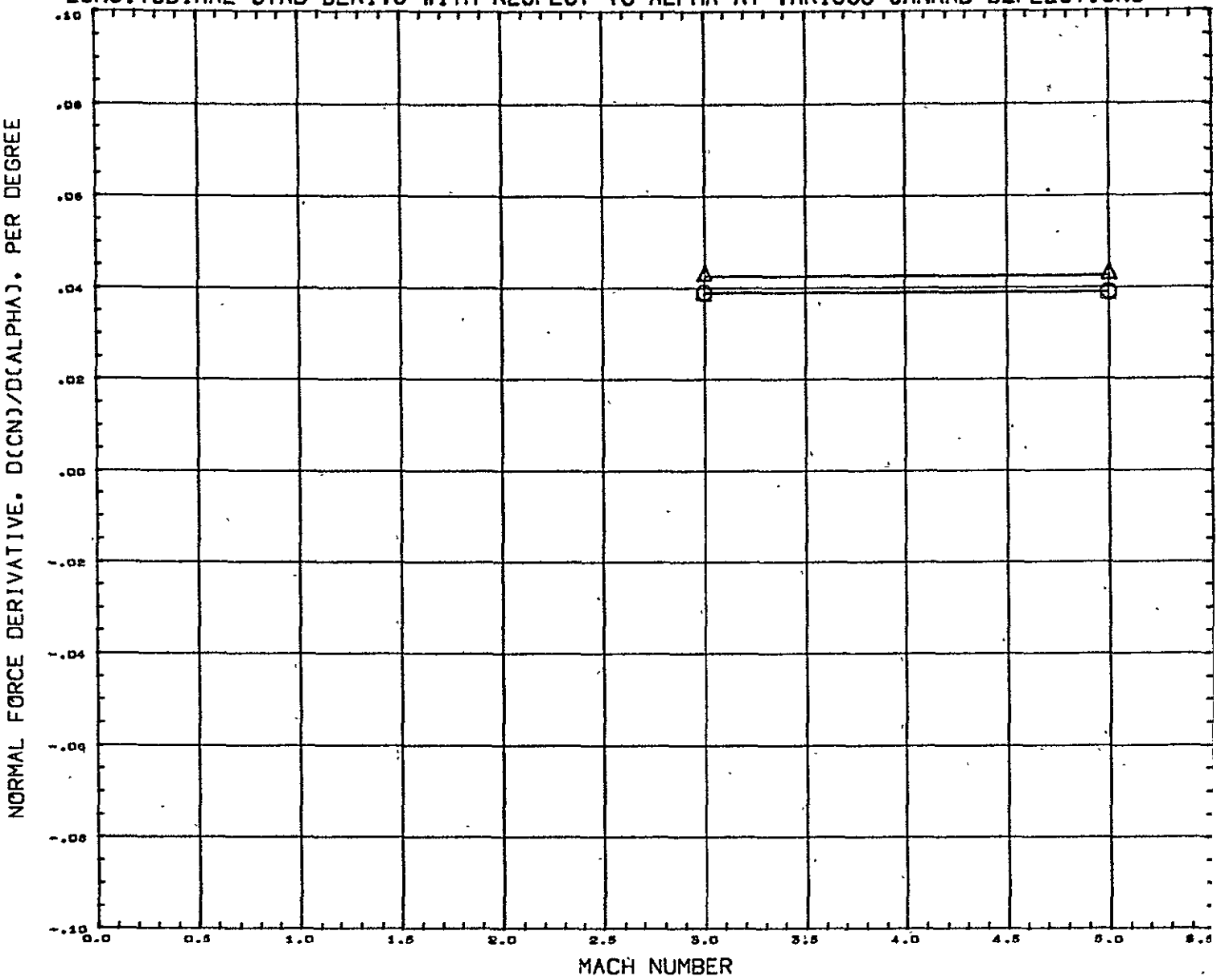
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE MVR#EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

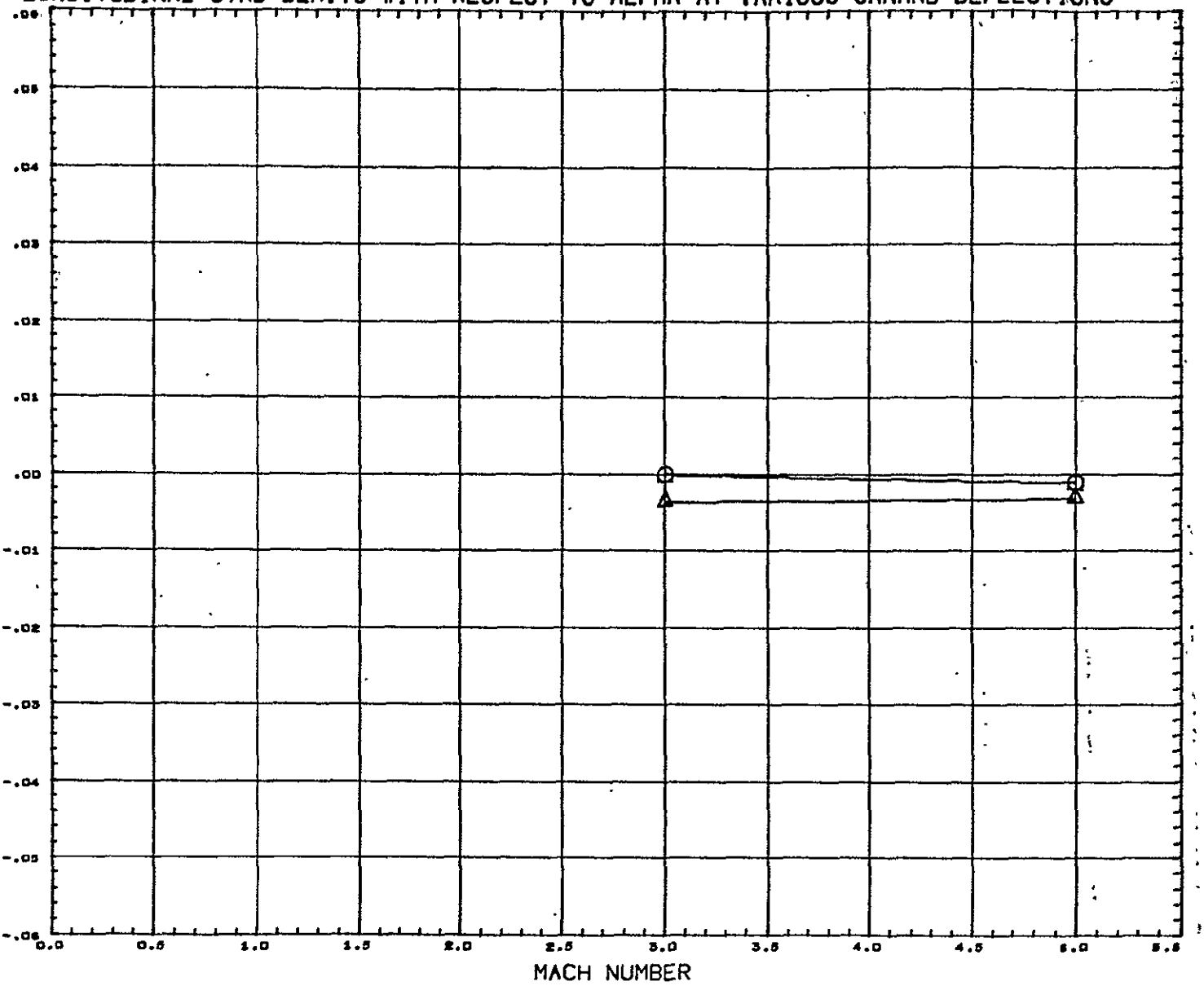
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE HVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

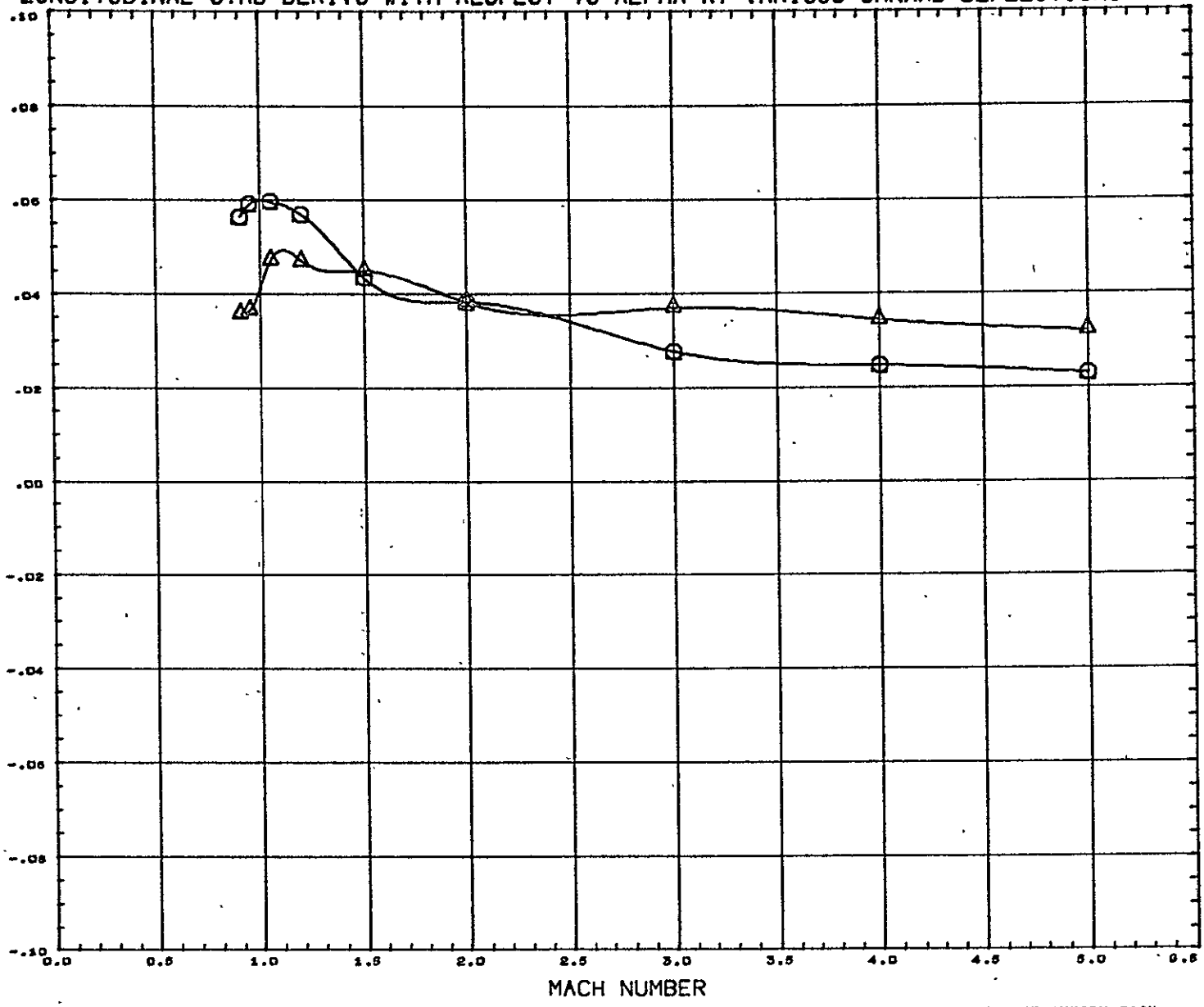
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE HVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

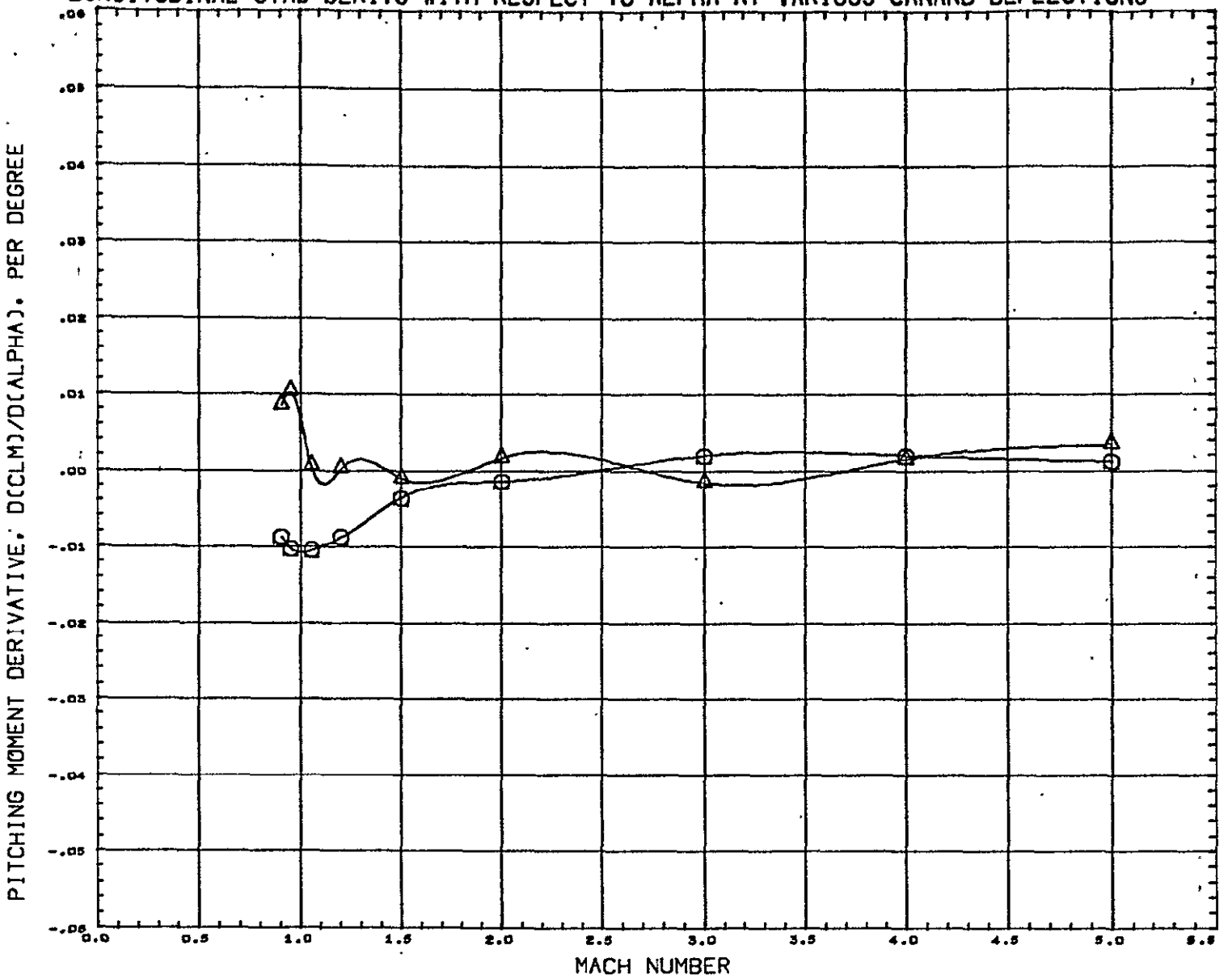
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR#EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

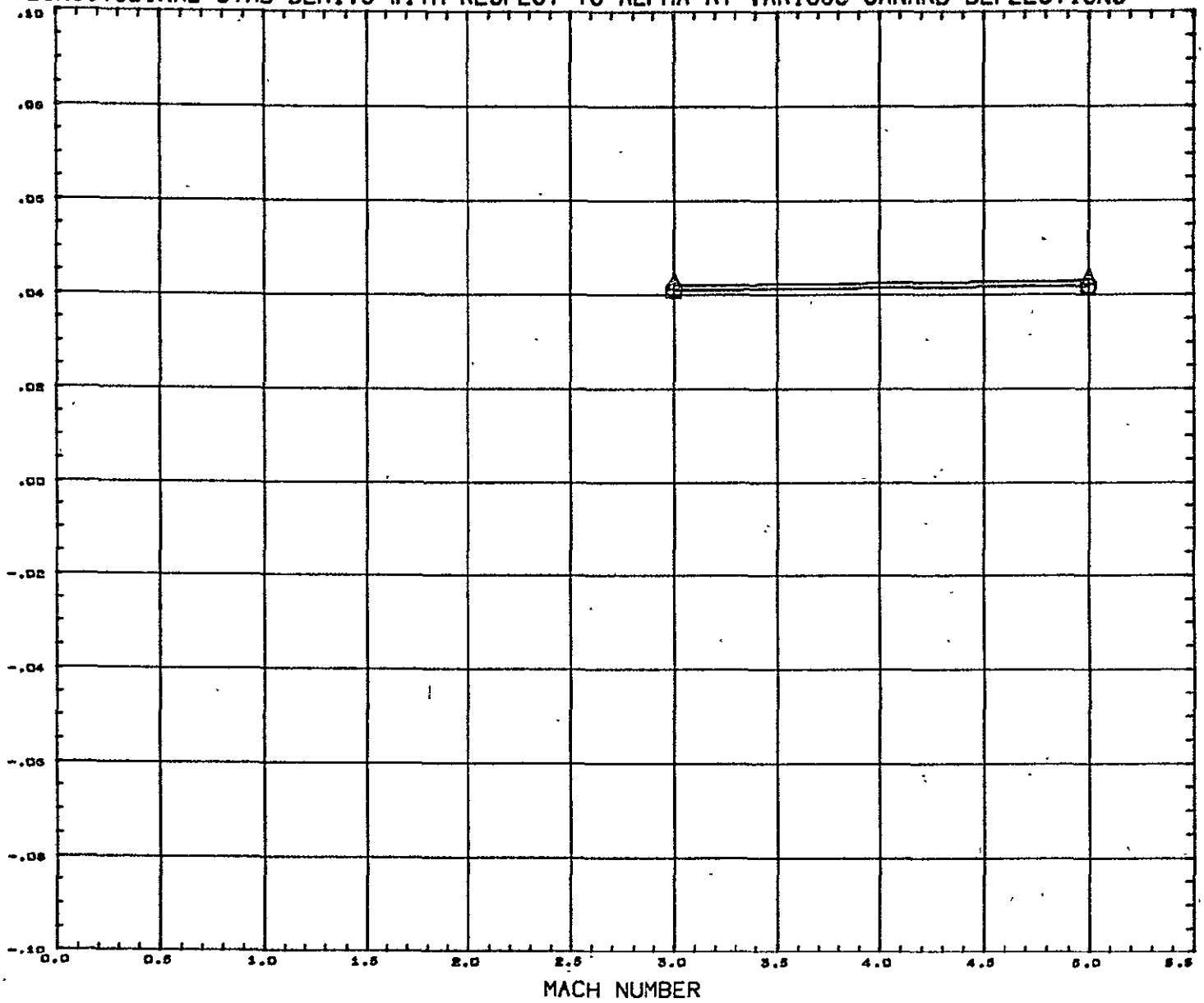
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
◇	30.000
△	40.000

PARAMETRIC VALUES

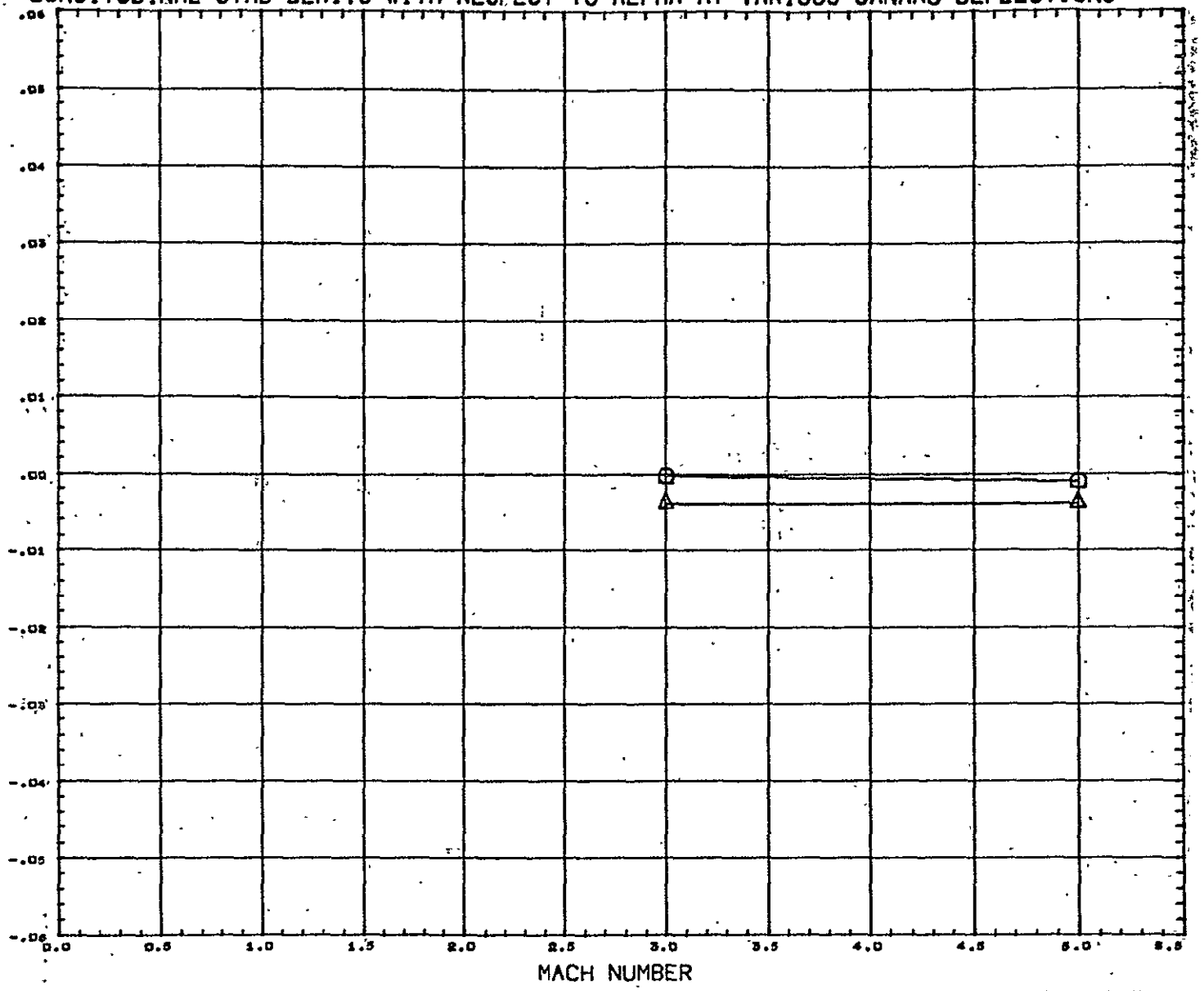
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR4EG1

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0038	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

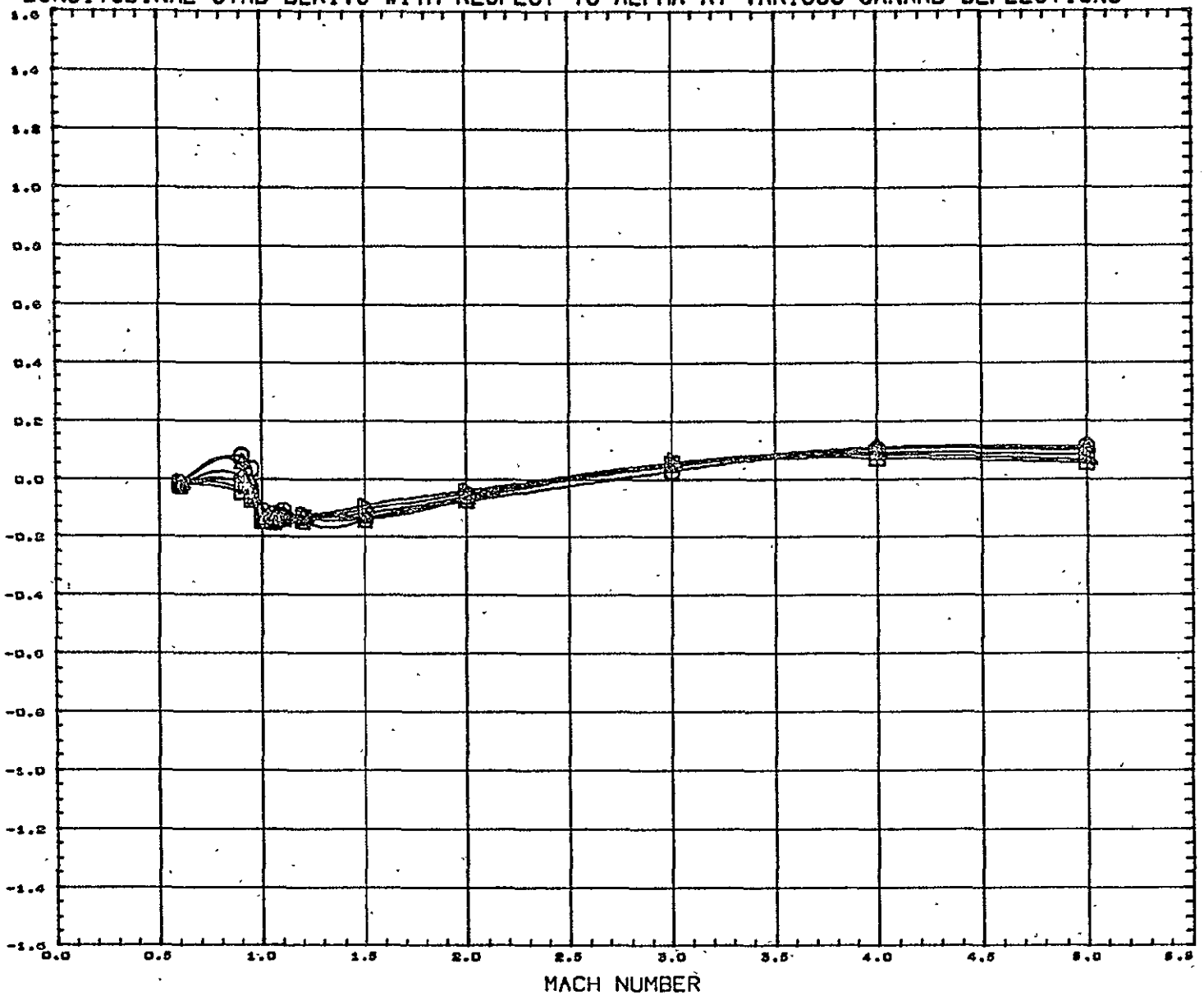


SYBOL	ALPHA	PARAMETRIC VALUES			
○	30.000	BETA	0.000	DEL	0.000
△	40.000	DER	0.000	DCL	15.000
		DCR	15.000	ELEVON	0.000
		CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR*EGI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0055	

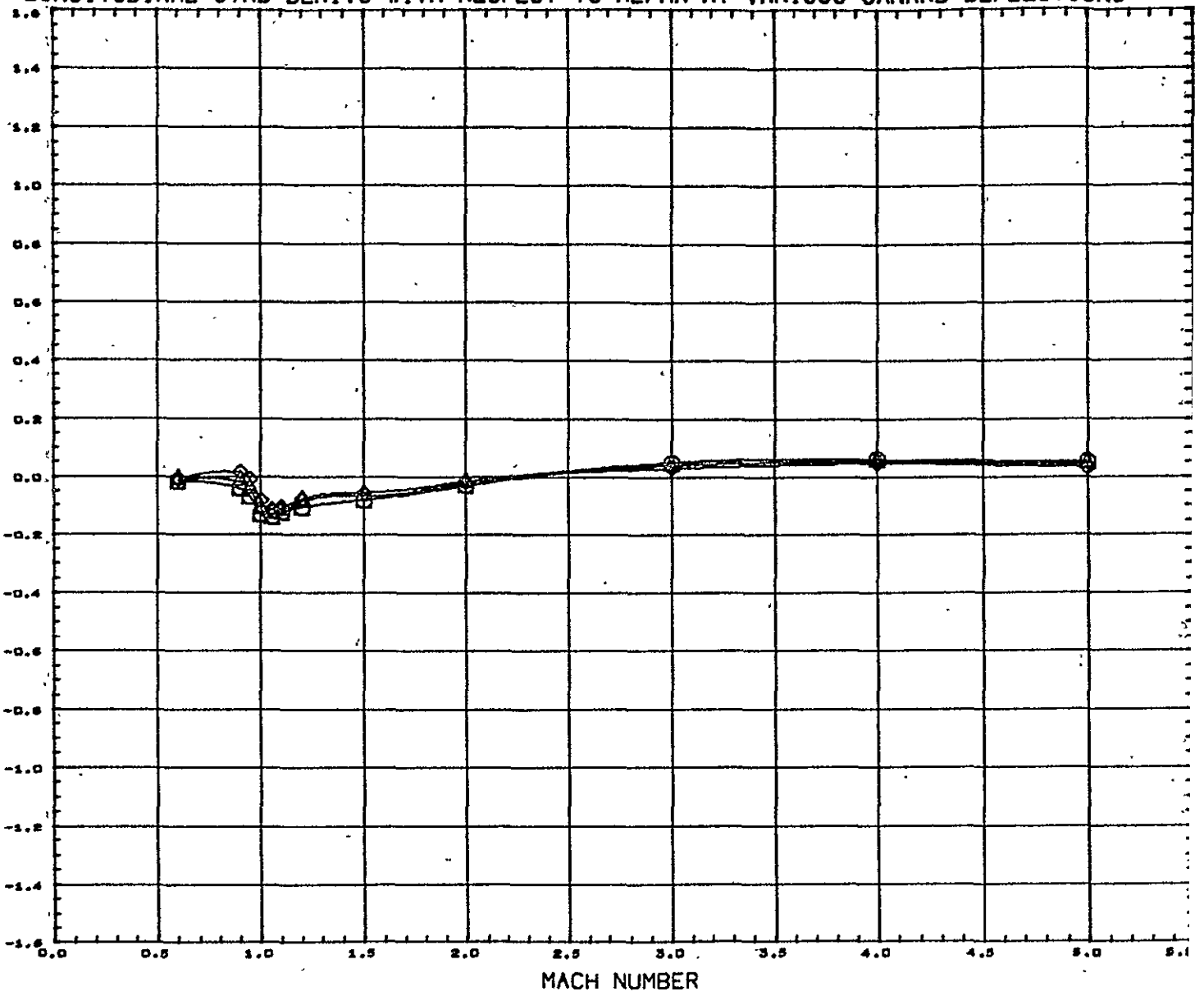
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA		PARAMETRIC VALUES		
	6.000	BETA	0.000	DEL	0.000
	8.000	DER	0.000	DCL	0.000
	10.000	DCR	0.000	ELEVON	0.000
	12.000	CANARD	0.000	AILRON	0.000
	14.000				
	16.000	DATA HIST. CODE		MVR*E*CI	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS

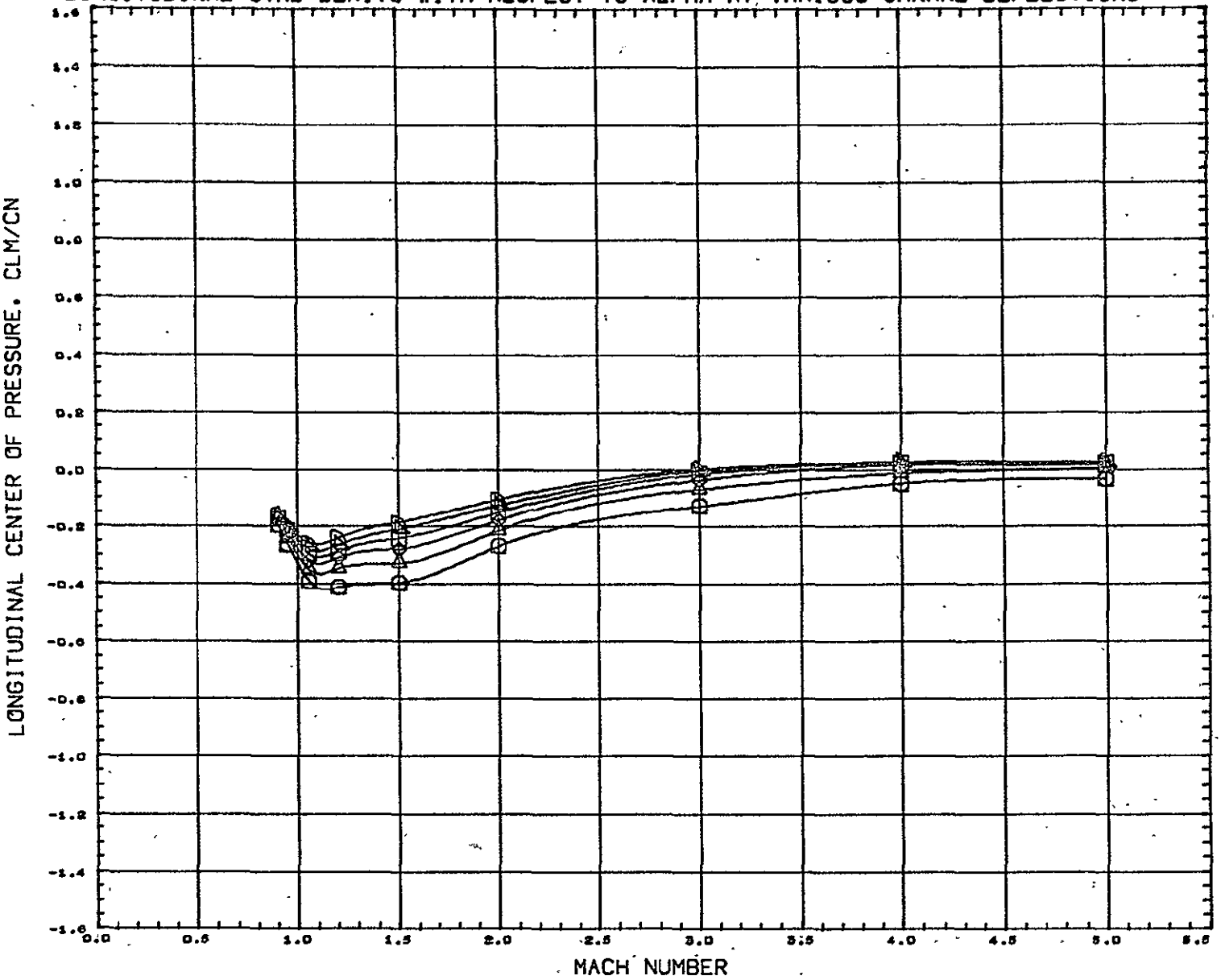


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	16.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	DCL	0.000
◇	22.000	DCR	0.000	ELEVON	0.000
		CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E*01

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

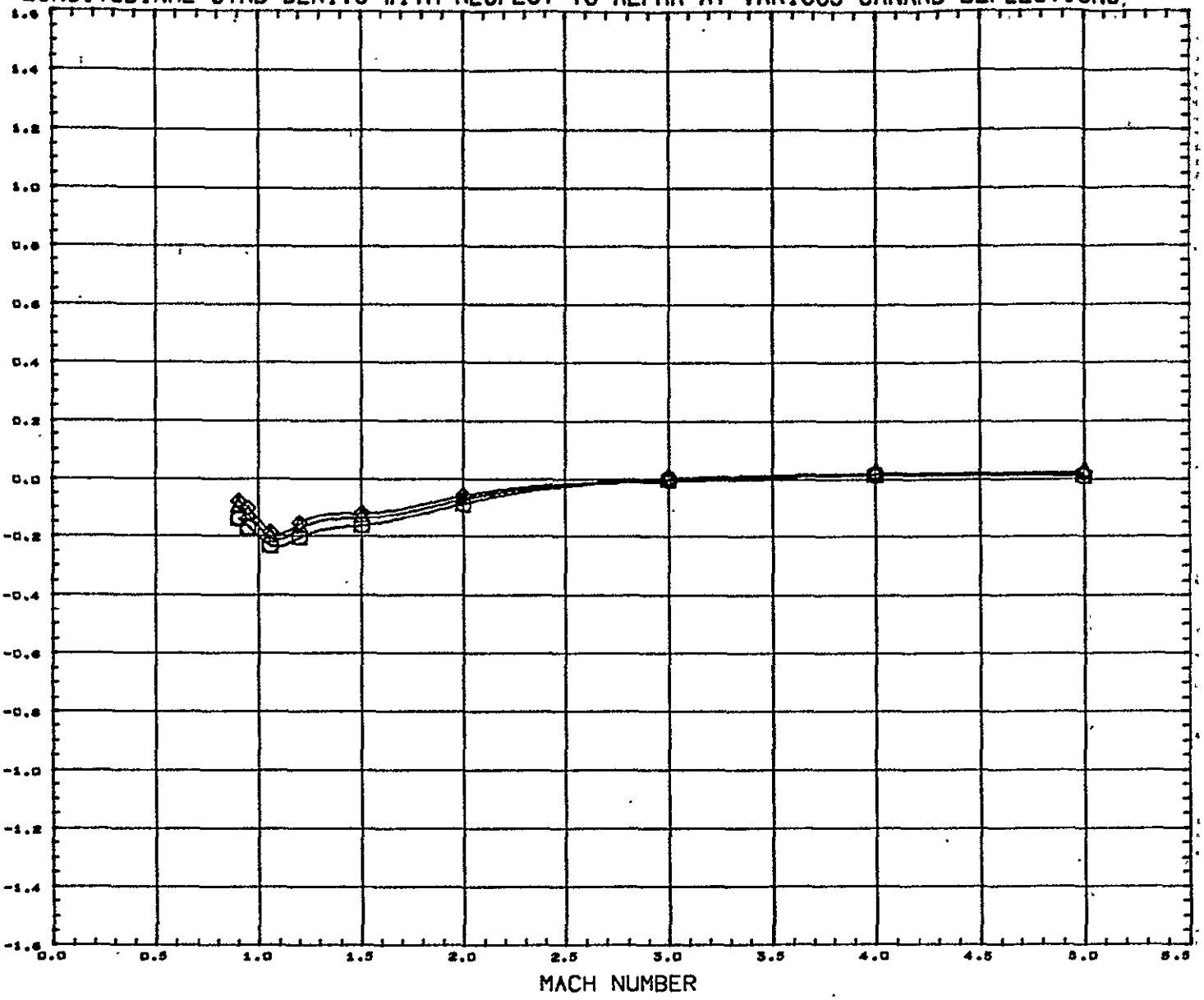
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA		PARAMETRIC VALUES		
○	6.000	BETA	0.000	DEL	0.000
△	8.000	DER	0.000	DCL	- 30.000
◇	10.000	DCR	30.000	ELEVON	0.000
□	12.000	CANARD	- 30.000	AILRON	0.000
▽	14.000				
	16.000	DATA HIST. CODE	MVR*E*GI		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	16.000
△	20.000
◇	22.000

PARAMETRIC VALUES

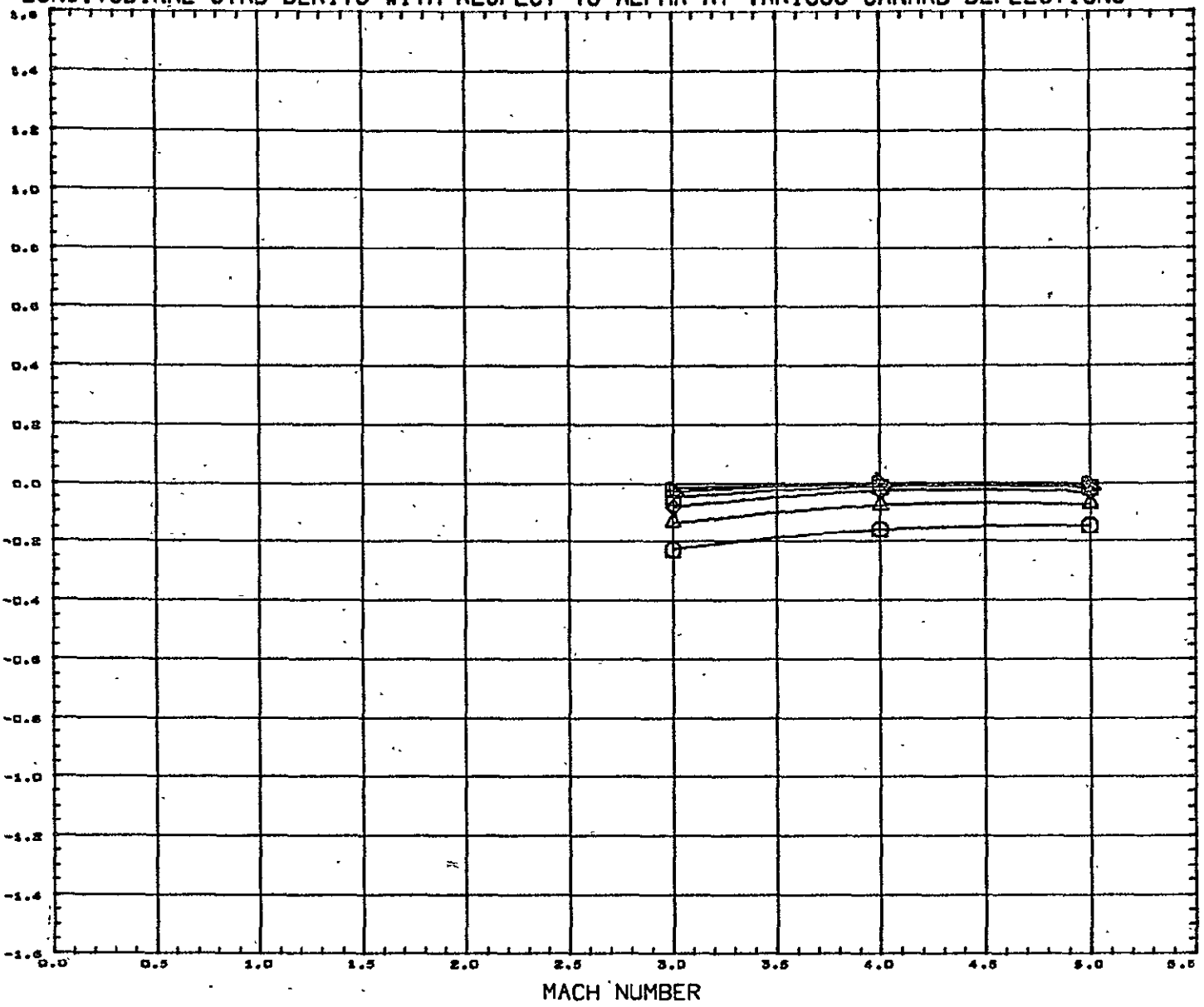
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE HVR*E*GI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

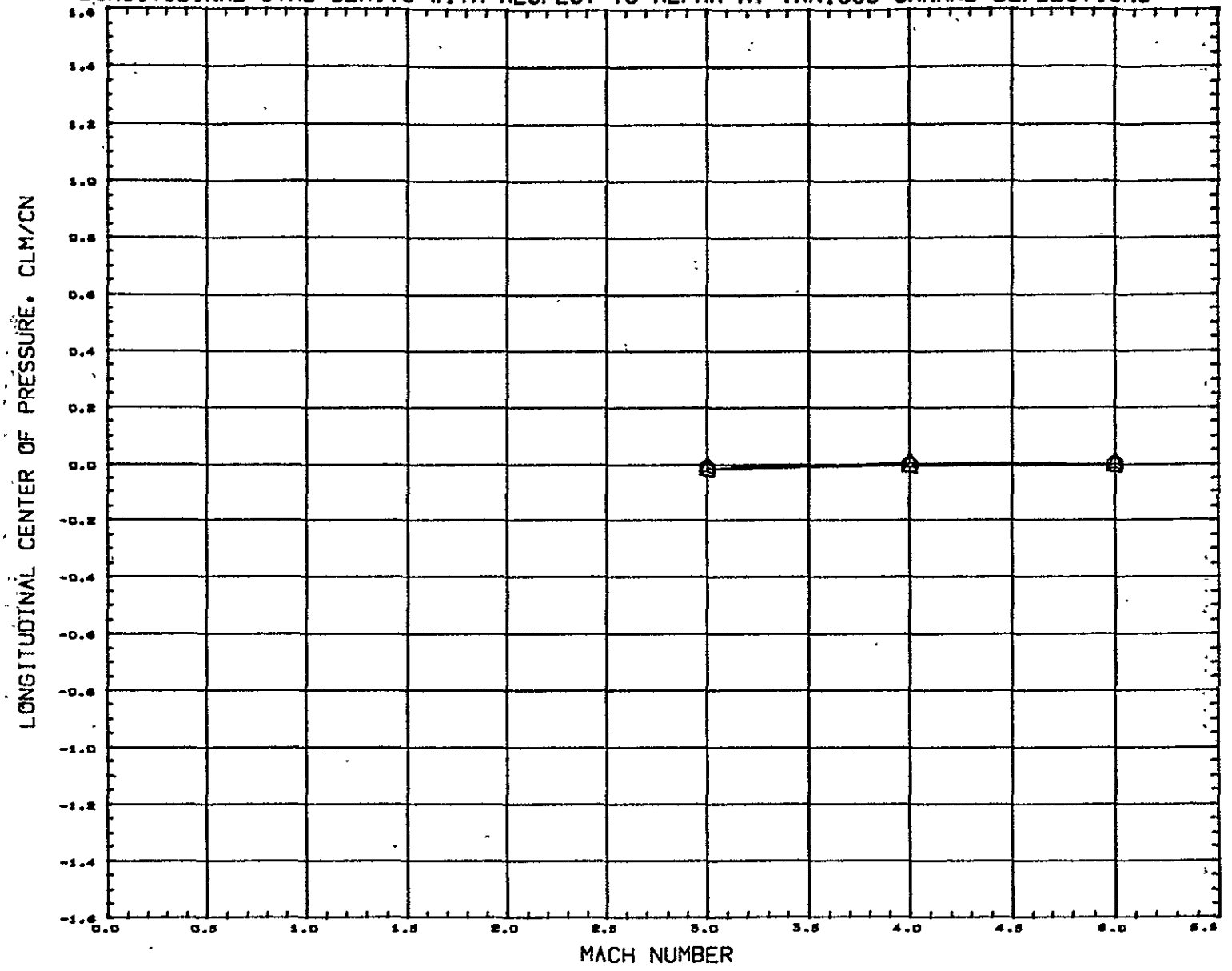
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
▽	6.000	BETA	0.000	DEL	0.000
△	8.000	DER	0.000	DCL	- 45.000
◇	10.000	DCR	- 45.000	ELEVON	0.000
□	12.000	CANARD	- 45.000	AILRON	0.000
▷	14.000				
○	16.000	DATA HIST. CODE	MVR*E1F		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

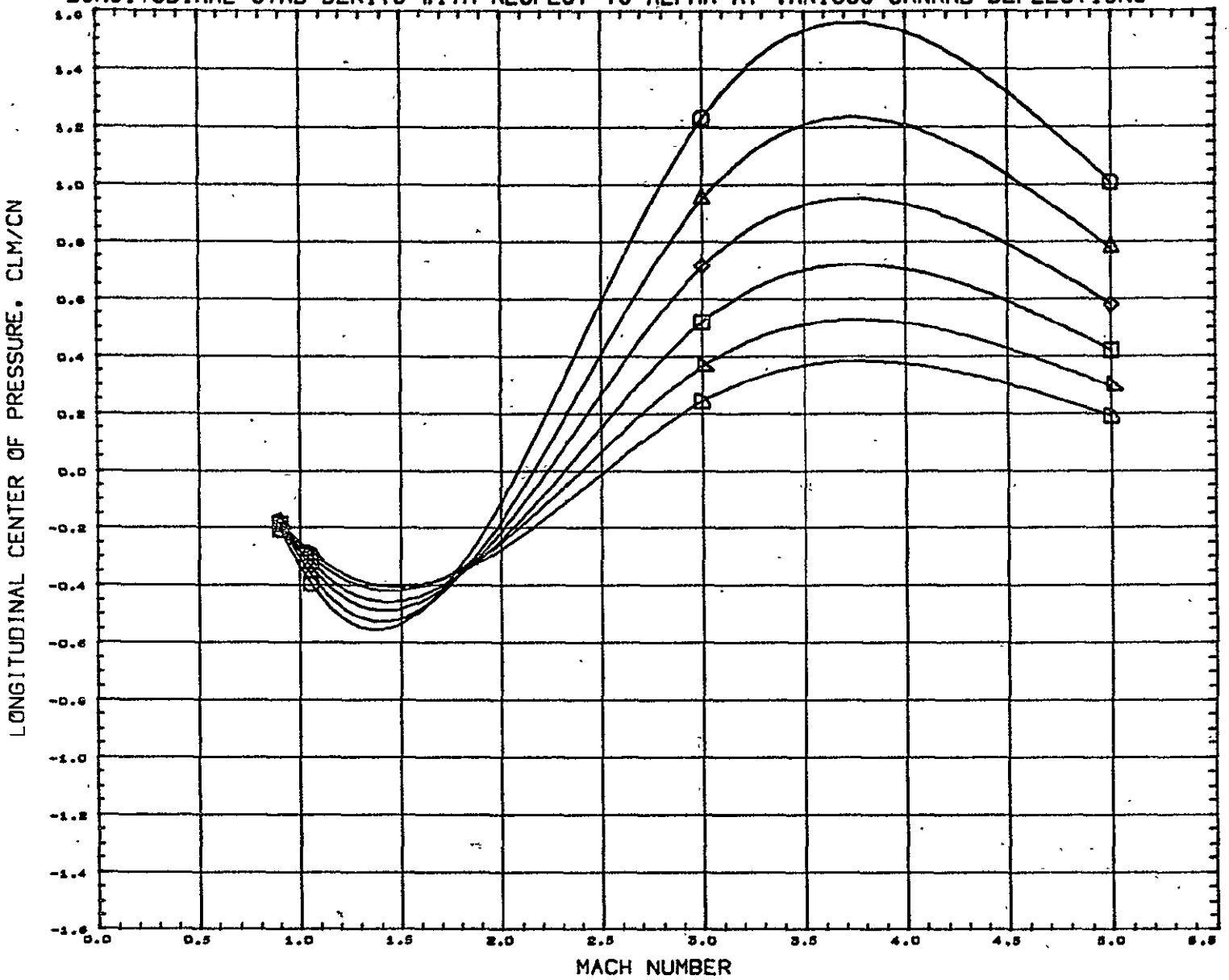
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE HVR4E1F

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

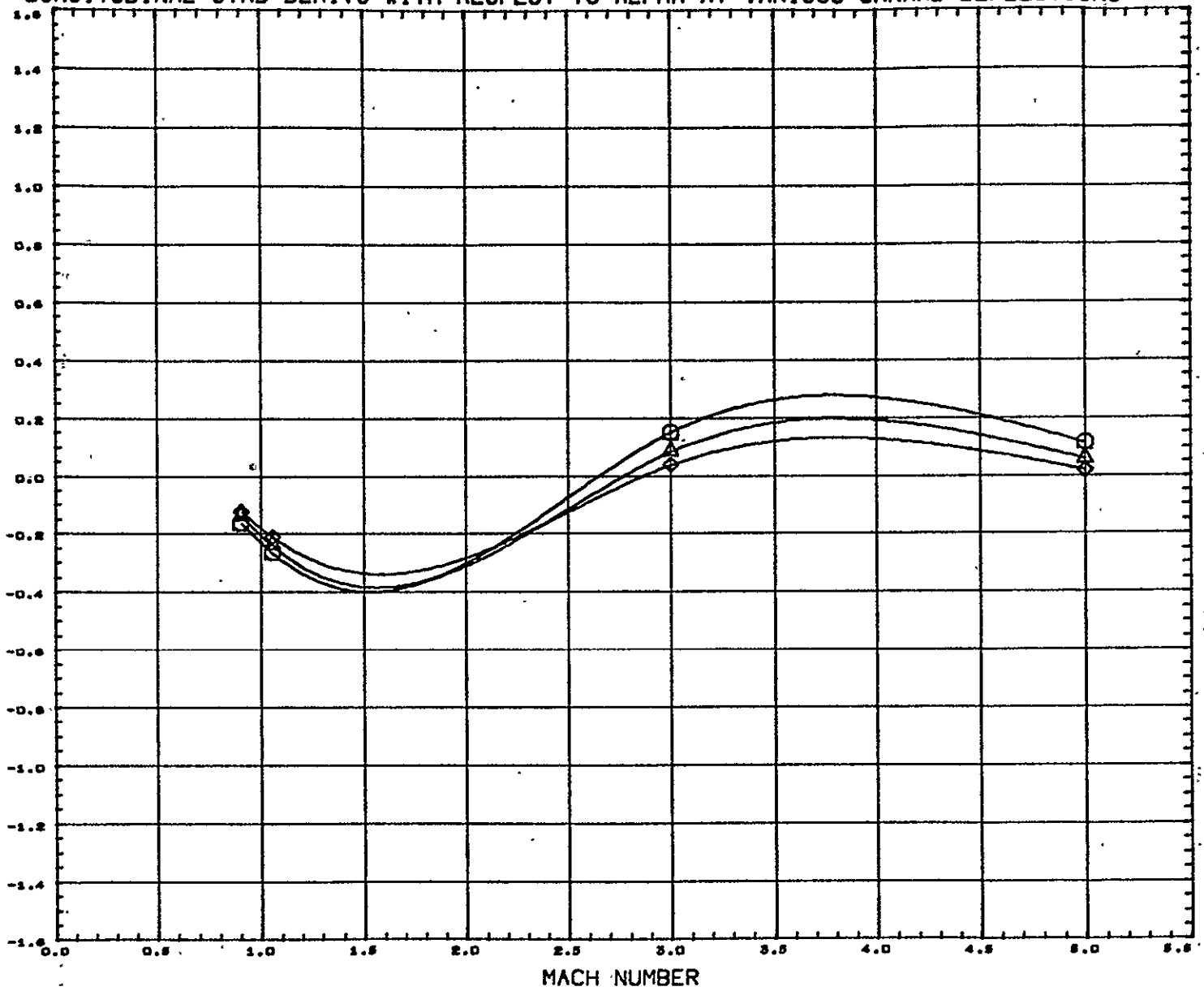
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA		PARAMETRIC VALUES		
○	6.000	BETA	0.000	DEL	0.000
△	8.000	DER	0.000	DCL	- 60.000
◇	10.000	DCR	- 60.000	ELEVON	0.000
□	12.000	CANARD	- 60.000	AILRON	0.000
▽	14.000				
⬠	16.000	DATA HIST. CODE		MVR#E#G1	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	18.000
△	20.000
◇	22.000

PARAMETRIC VALUES

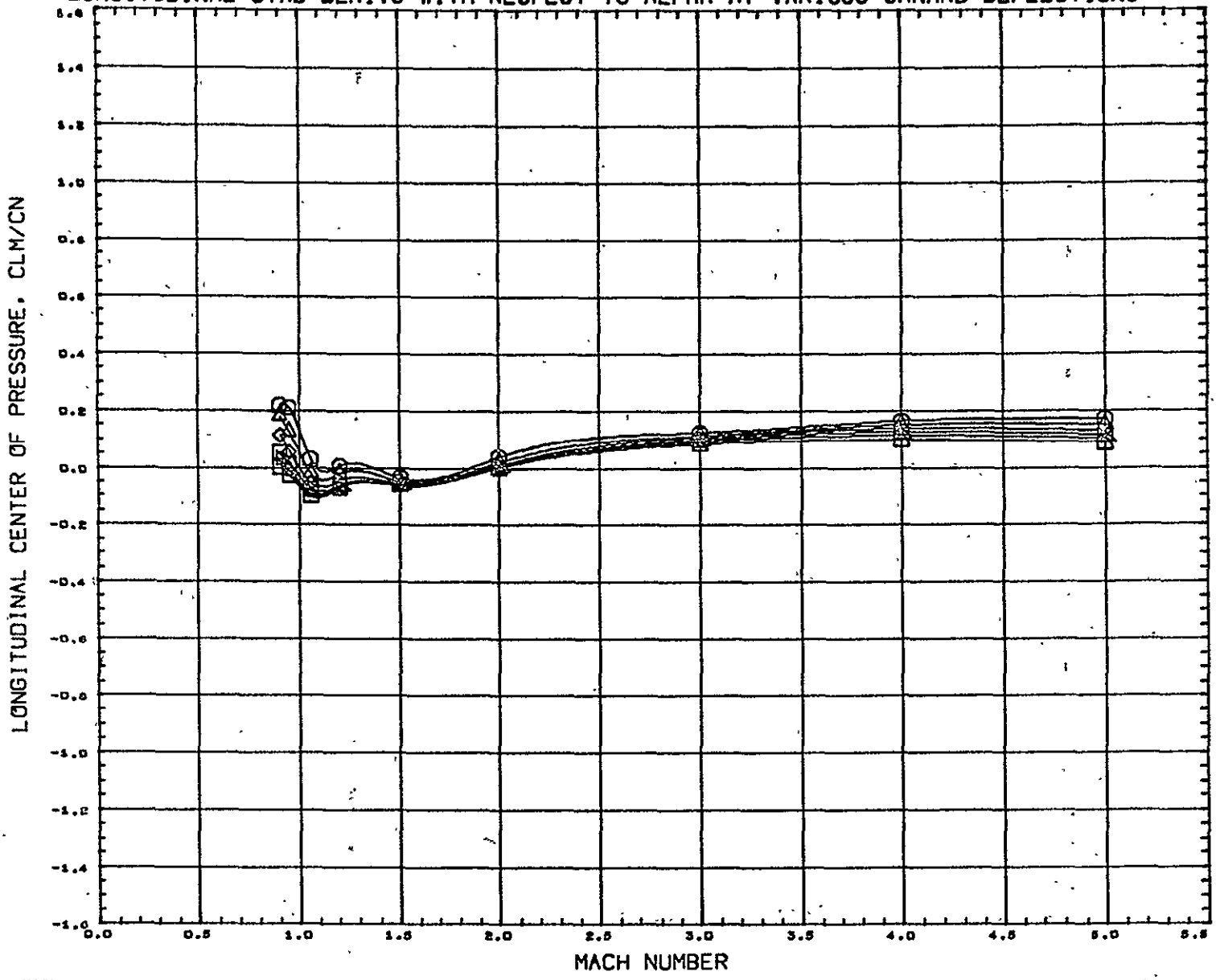
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE MVR*E*GI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

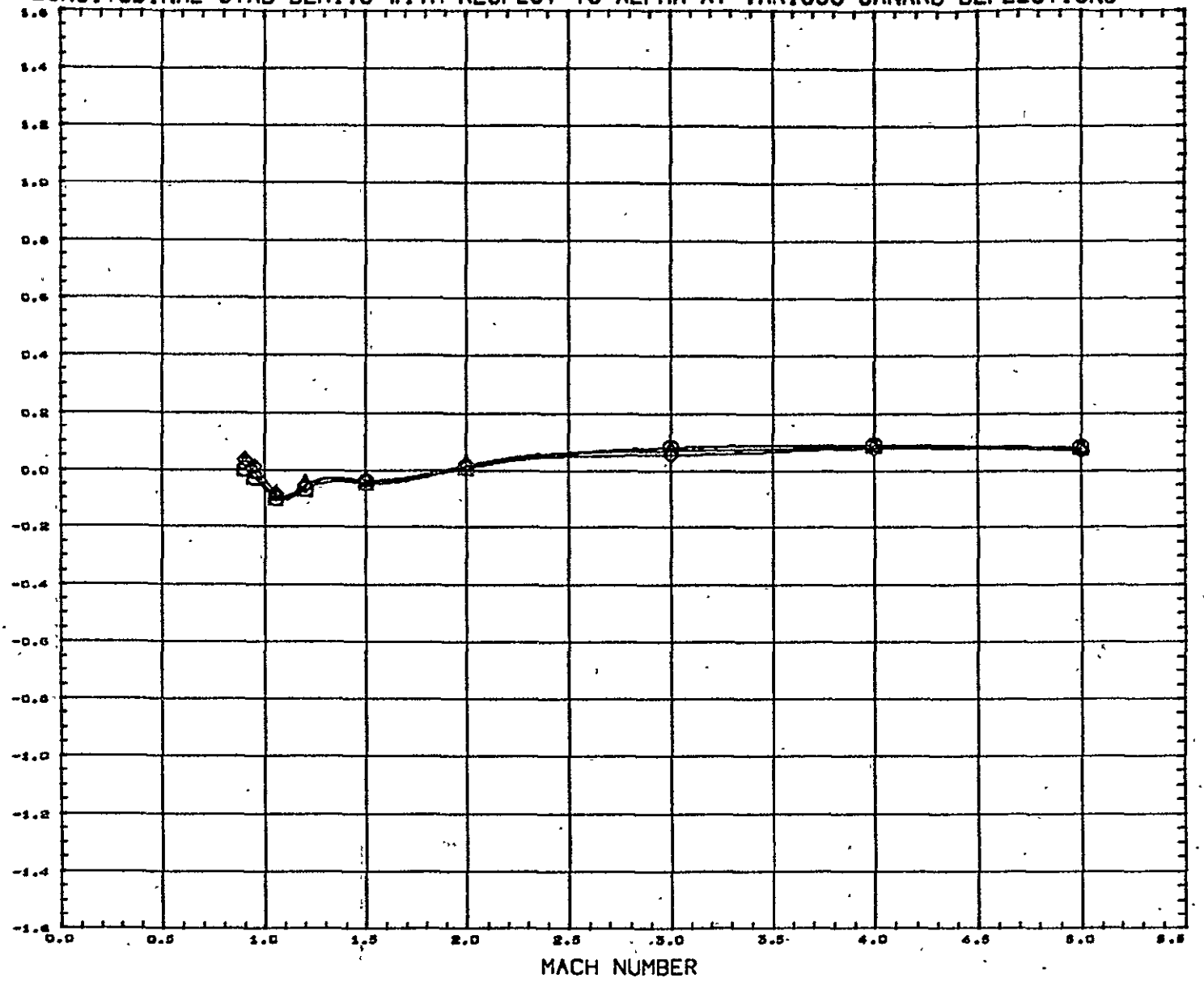
LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA		PARAMETRIC VALUES		
○	6.000	BETA	0.000	DEL	0.000
△	8.000	DER	0.000	DCL	15.000
◇	10.000	DCR	15.000	ELEVON	0.000
□	12.000	CANARD	15.000	AILRON	0.000
▽	14.000				
⬠	16.000	DATA HIST. CODE		HVR*E*G1	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL STAB DERIVS WITH RESPECT TO ALPHA AT VARIOUS CANARD DEFLECTIONS



SYMBOL	ALPHA
○	18.000
△	20.000
◇	22.000

PARAMETRIC VALUES

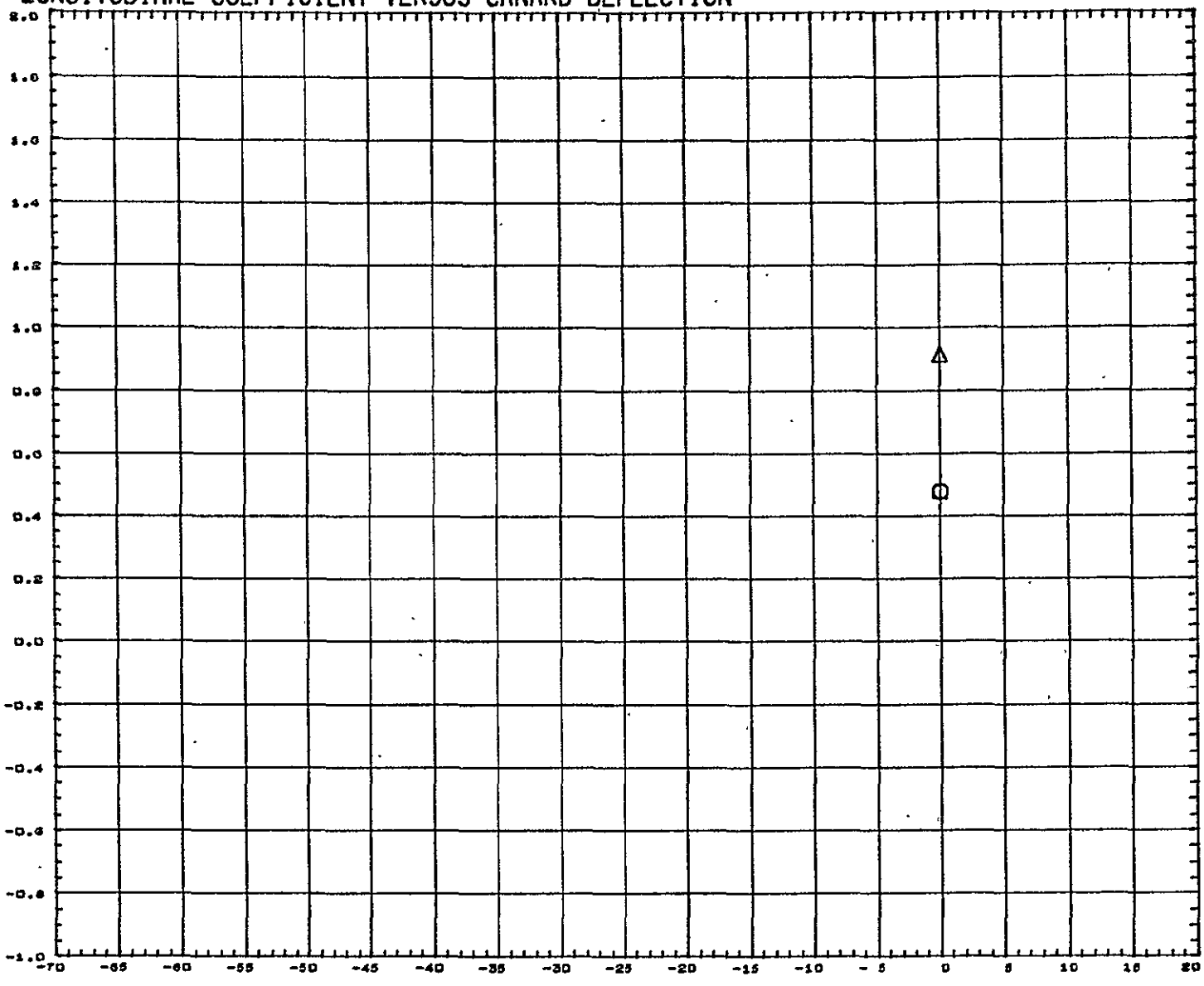
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR*E*GI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.600	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR0EI

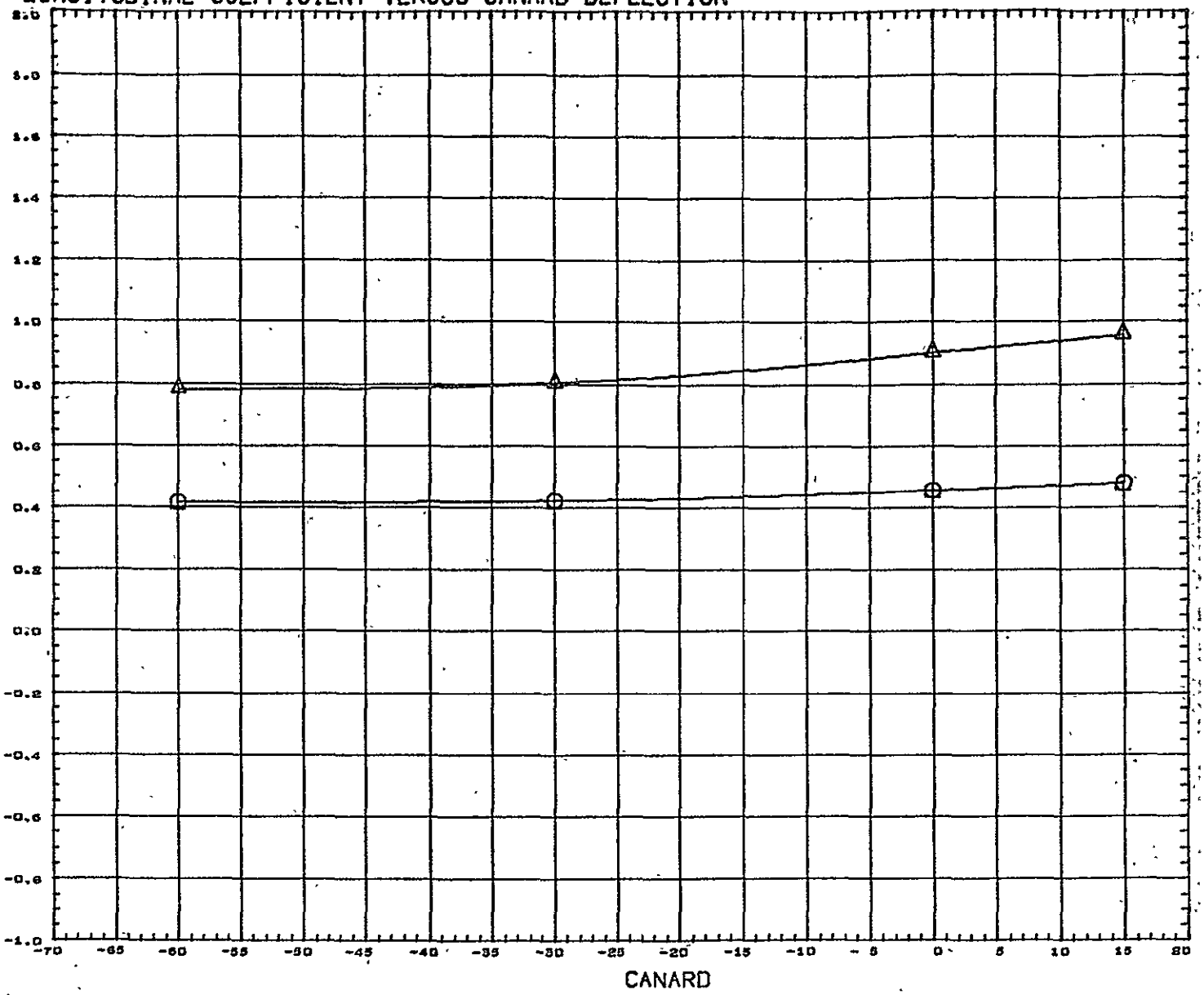
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28831	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR#E1

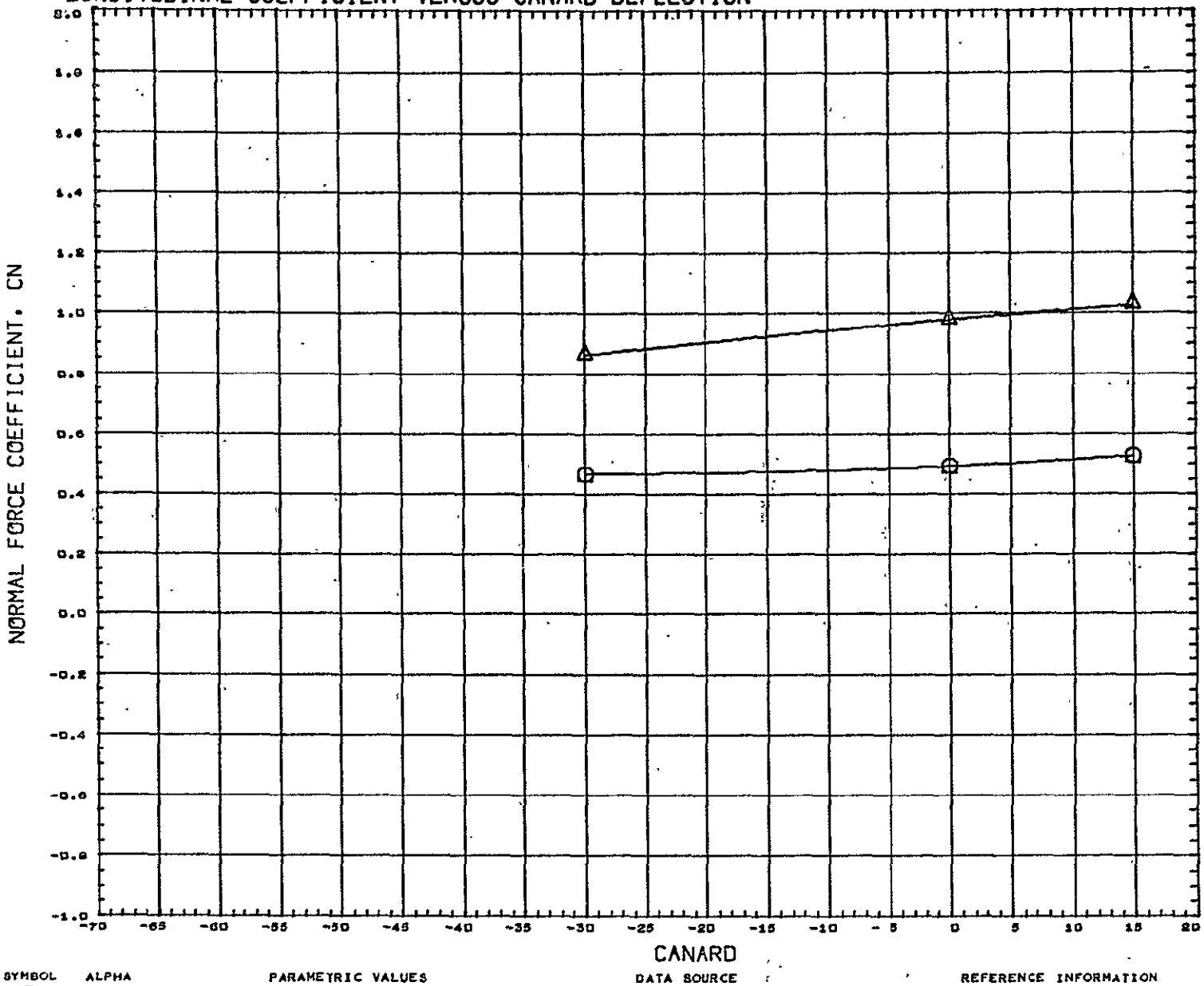
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0039	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.950	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

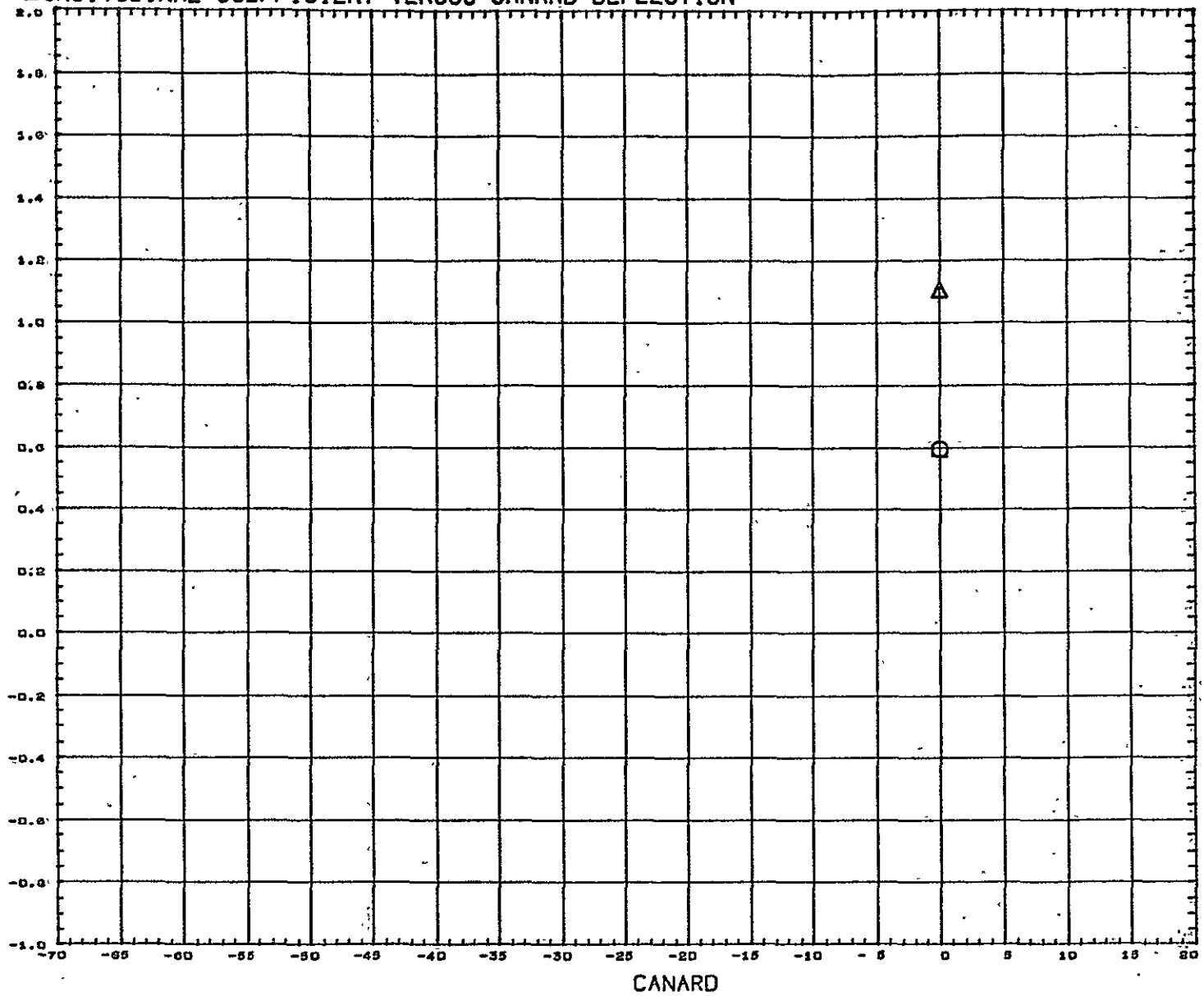
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	5.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

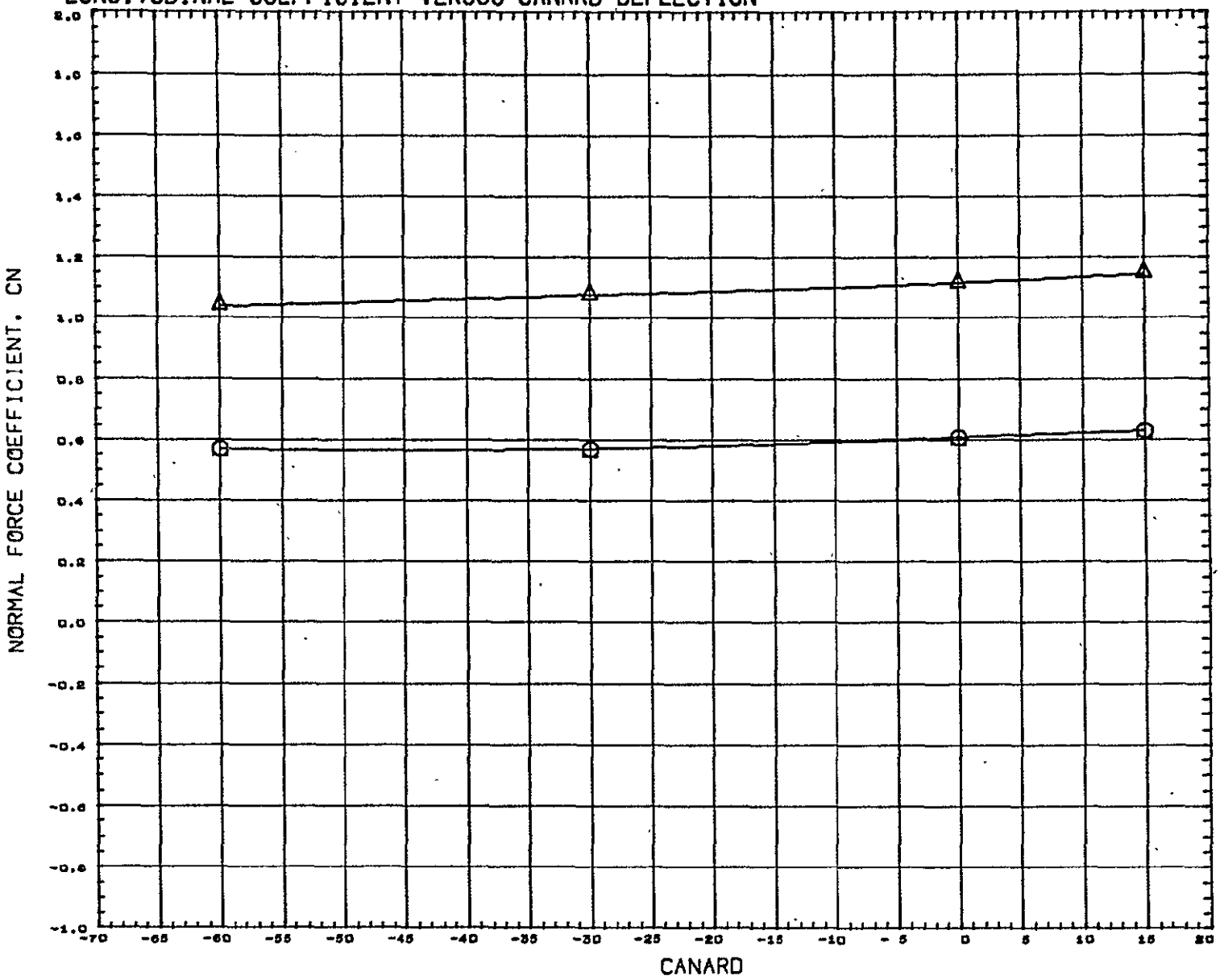
PARAMETRIC VALUES			
MACH	1.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE			
DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.9050	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.050	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

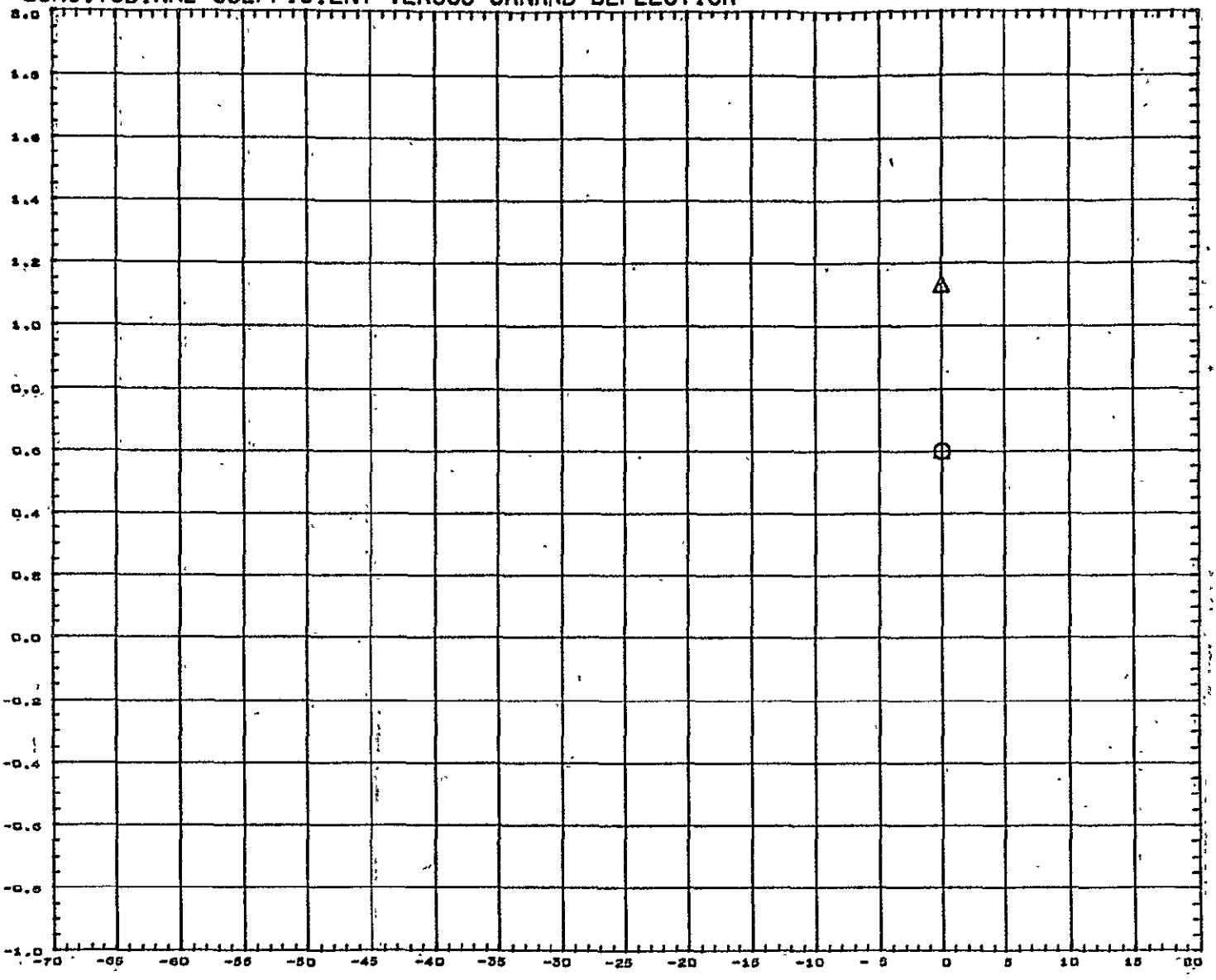
DATA SOURCE

DATASET	CANARD
G28C47	- 60.000
G28C41	- 30.000
G28C44	15.000
G28C50	- 45.000
G28B31	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

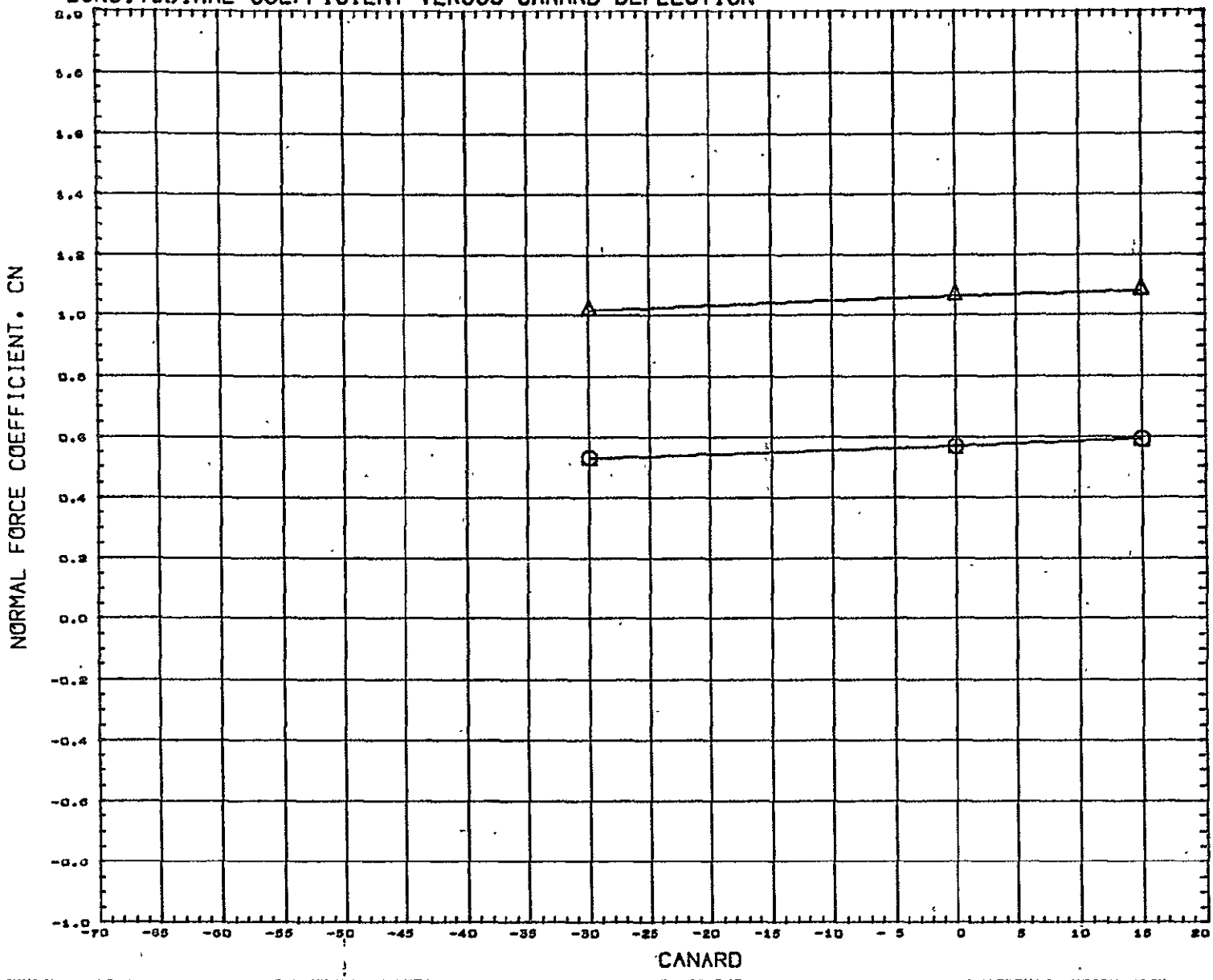
PARAMETRIC VALUES			
MACH	1.100	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE			
DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE

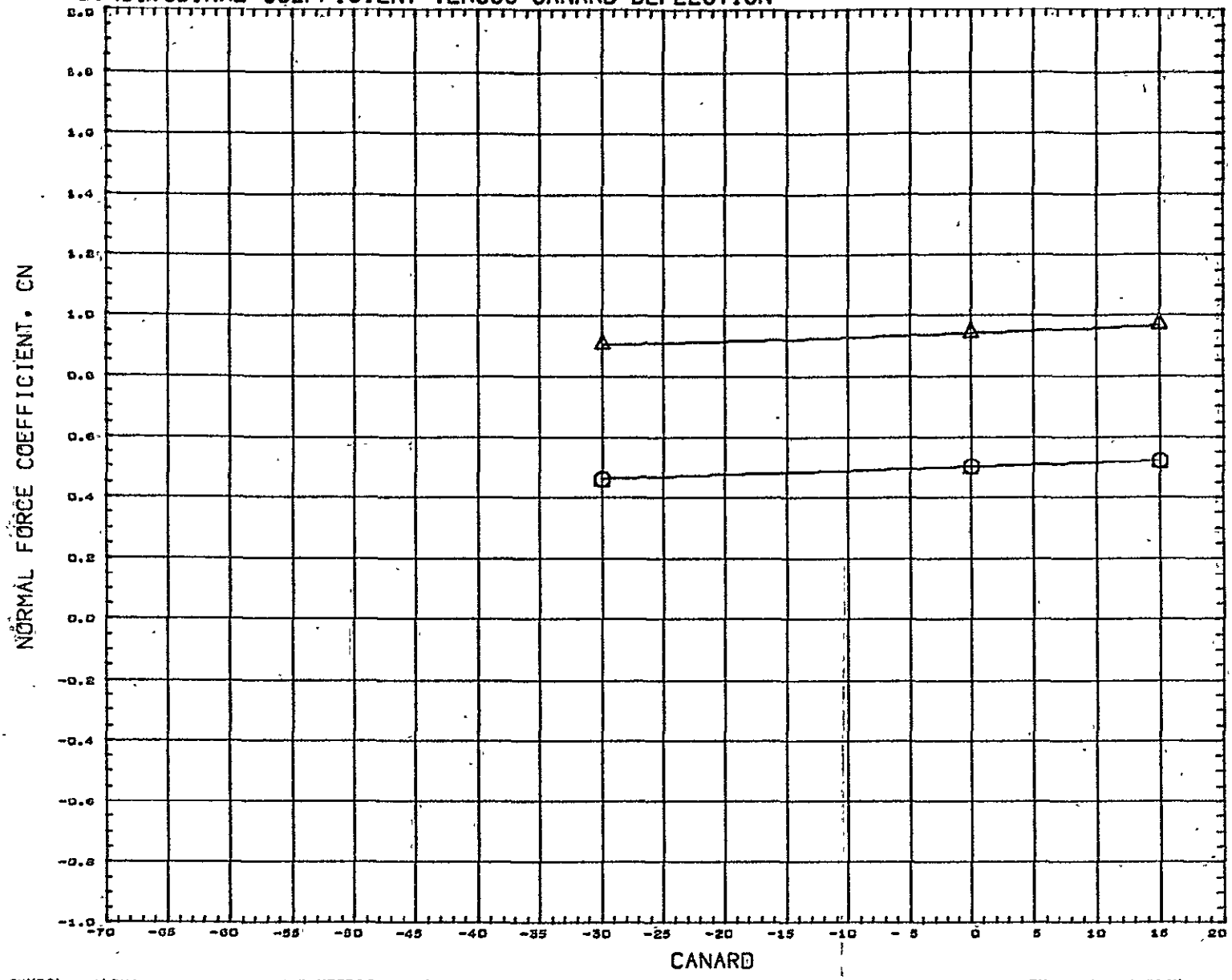
DATASET	CANARD
G28C47	- 60.000
G28C41	- 30.000
G28C44	15.000

DATASET	CANARD
G28C50	- 45.000
G28B31	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
△	10.000
○	20.000

PARAMETRIC VALUES

MACH	1.500	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

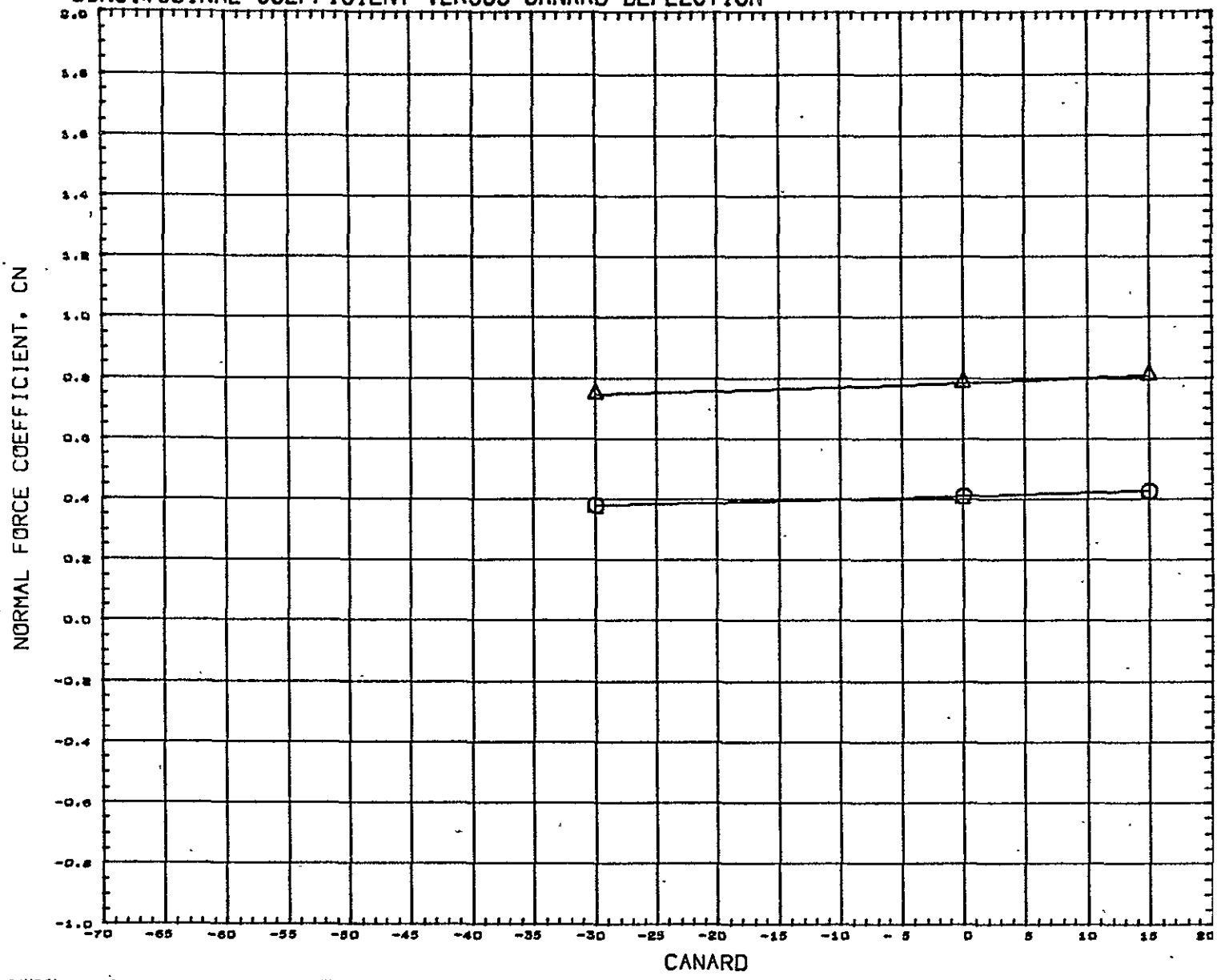
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	-60.000	DCR	-60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

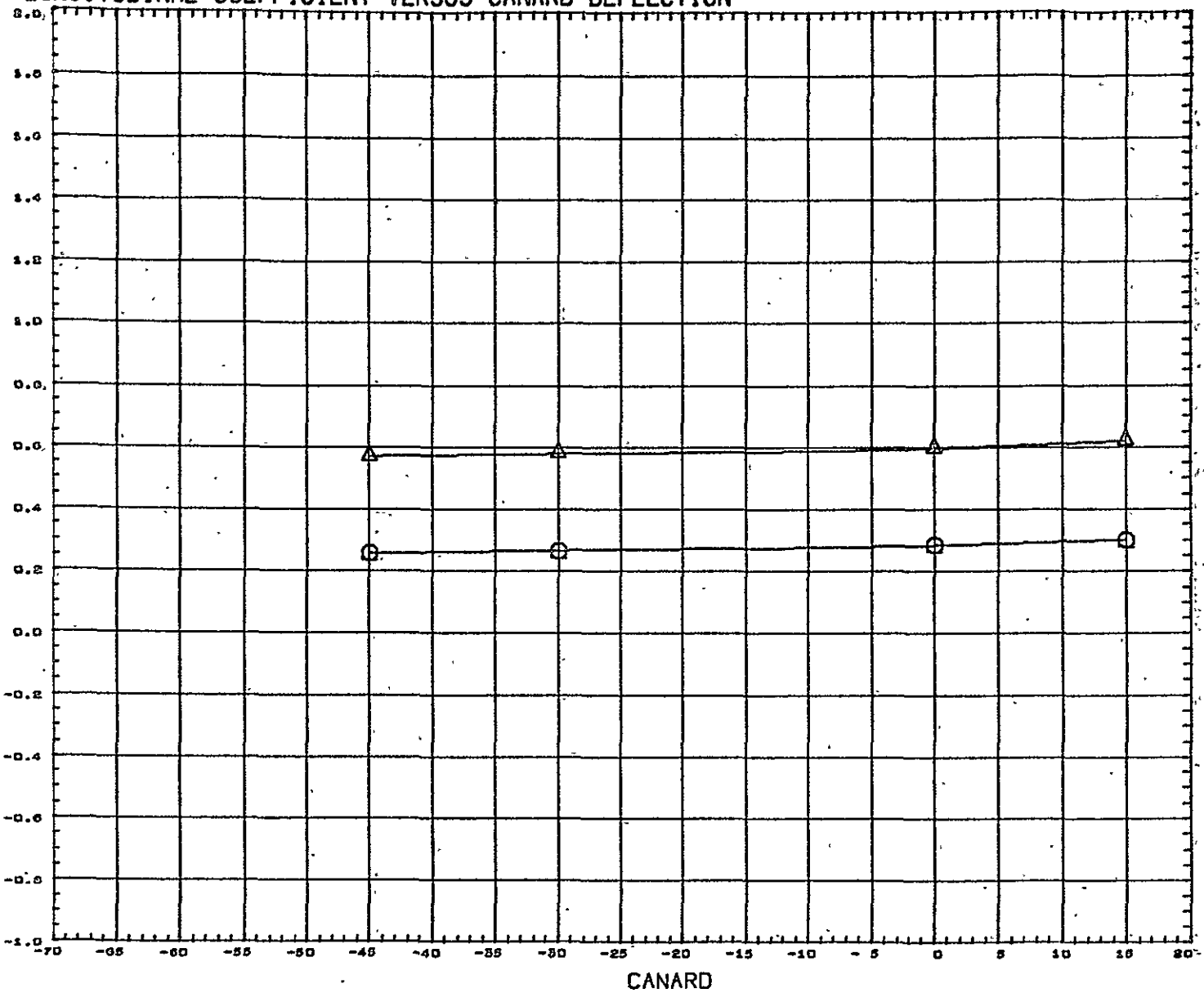
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	-60.000	G28C50	-45.000
G28C41	-30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*E*

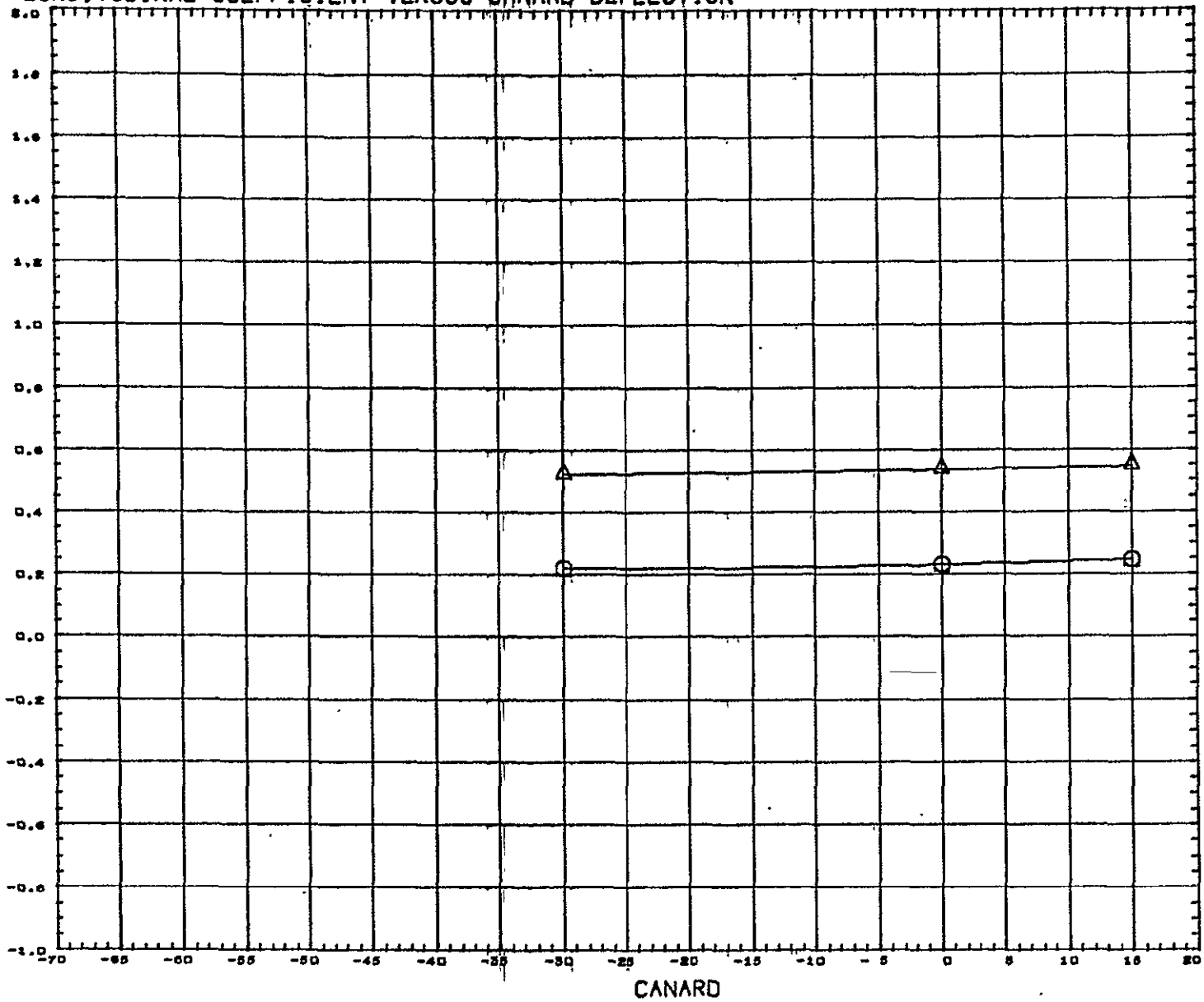
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

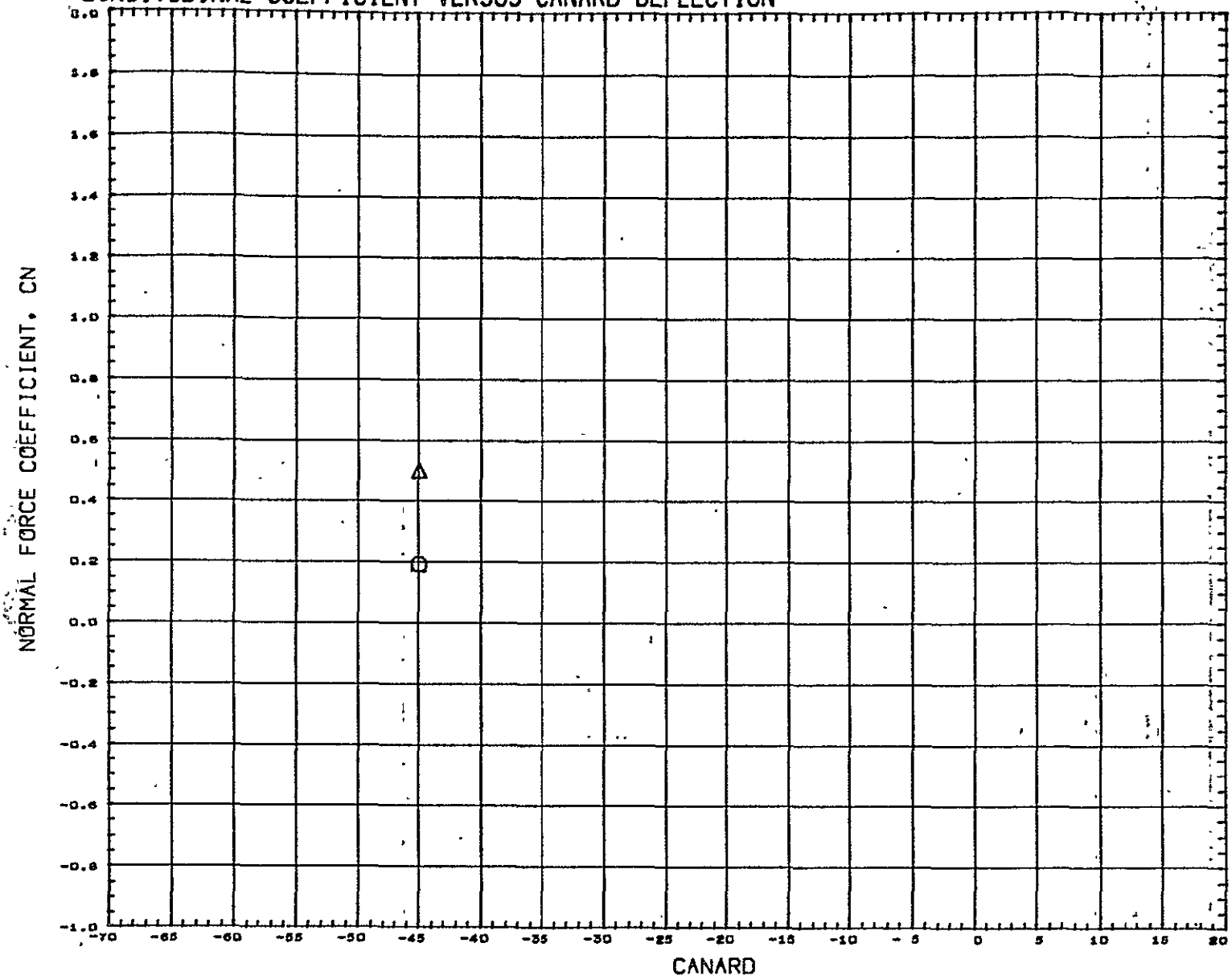
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.500	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

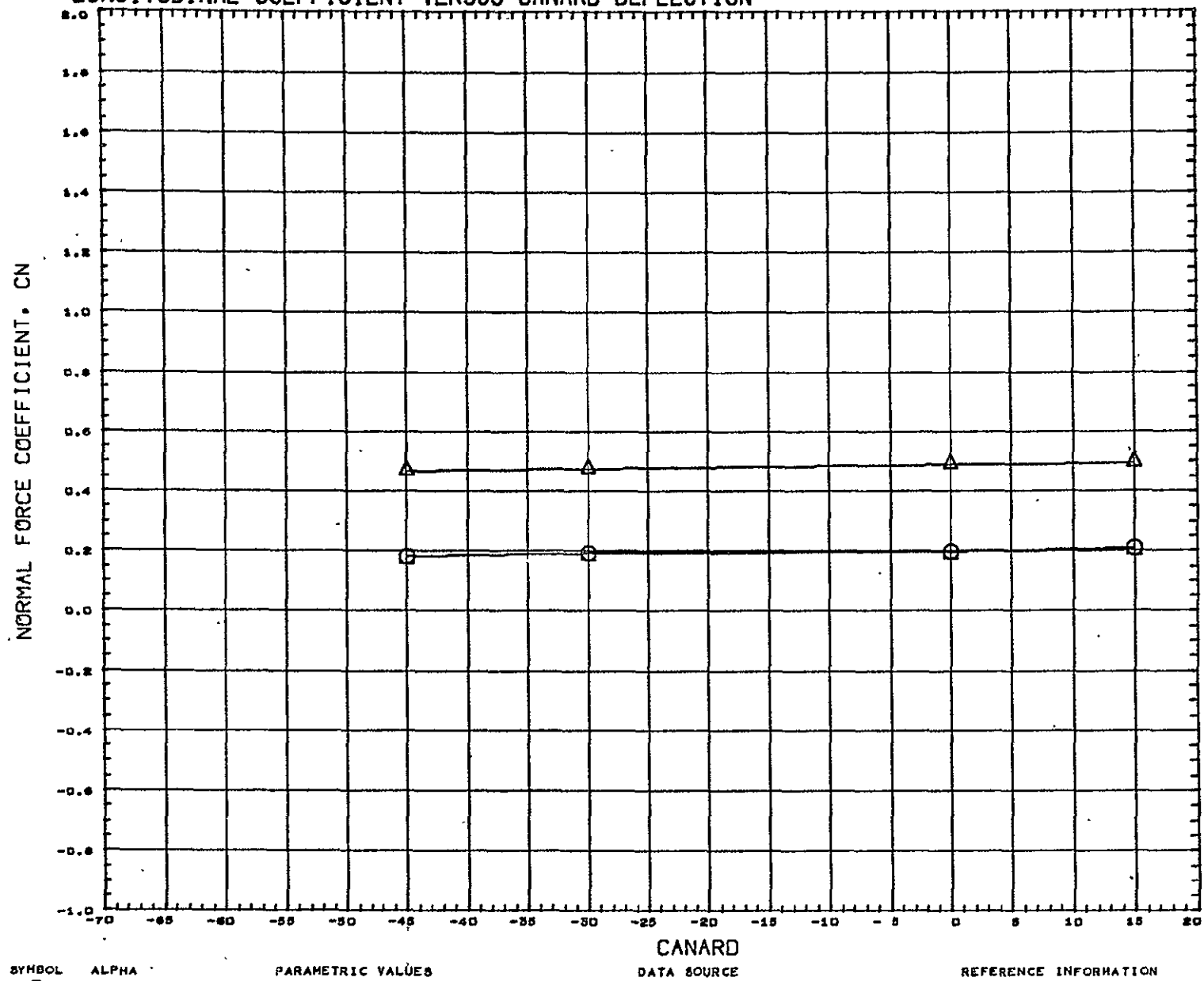
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
◻	10.000
△	20.000

PARAMETRIC VALUES

MACH	.5.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

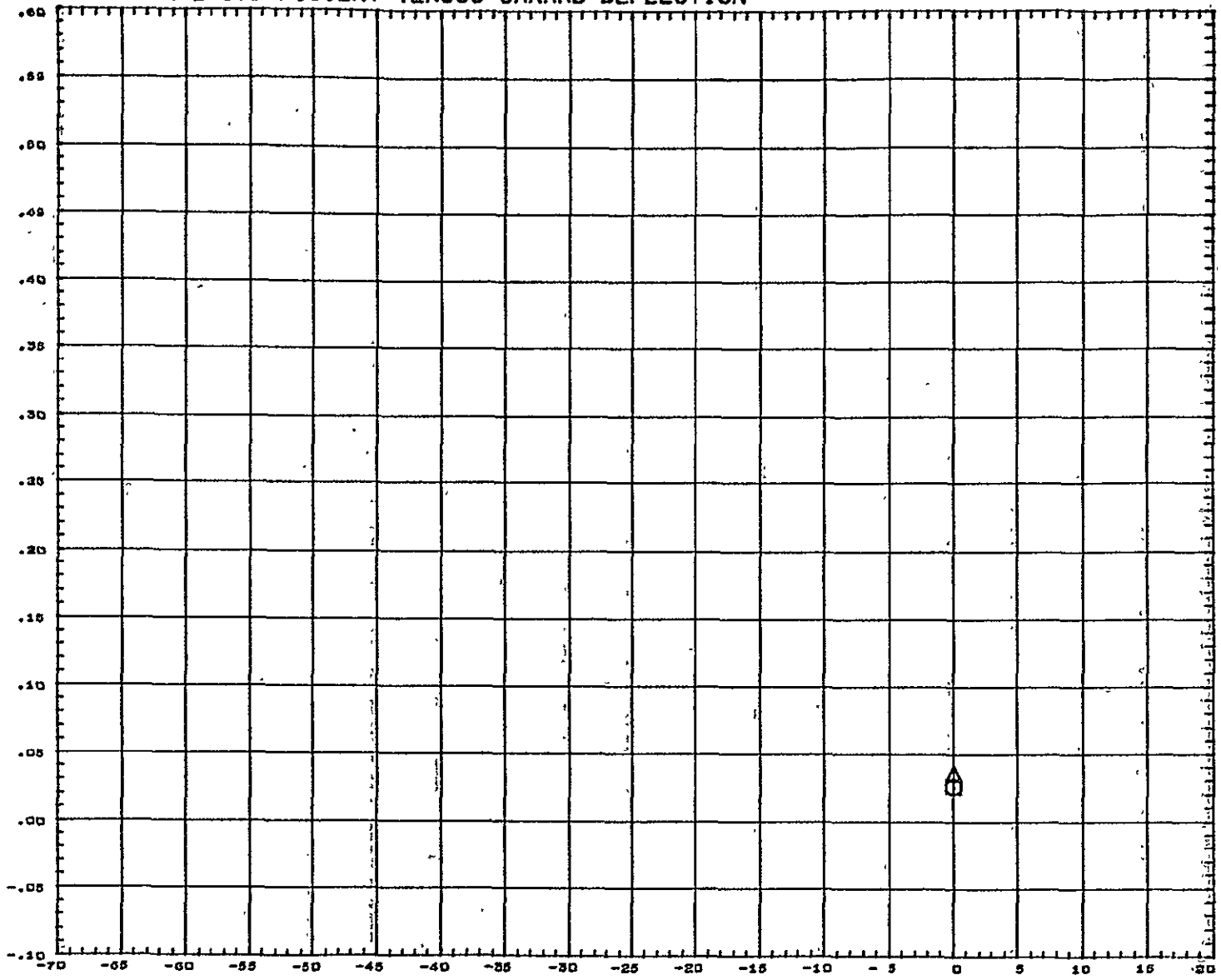
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.600	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR#EI

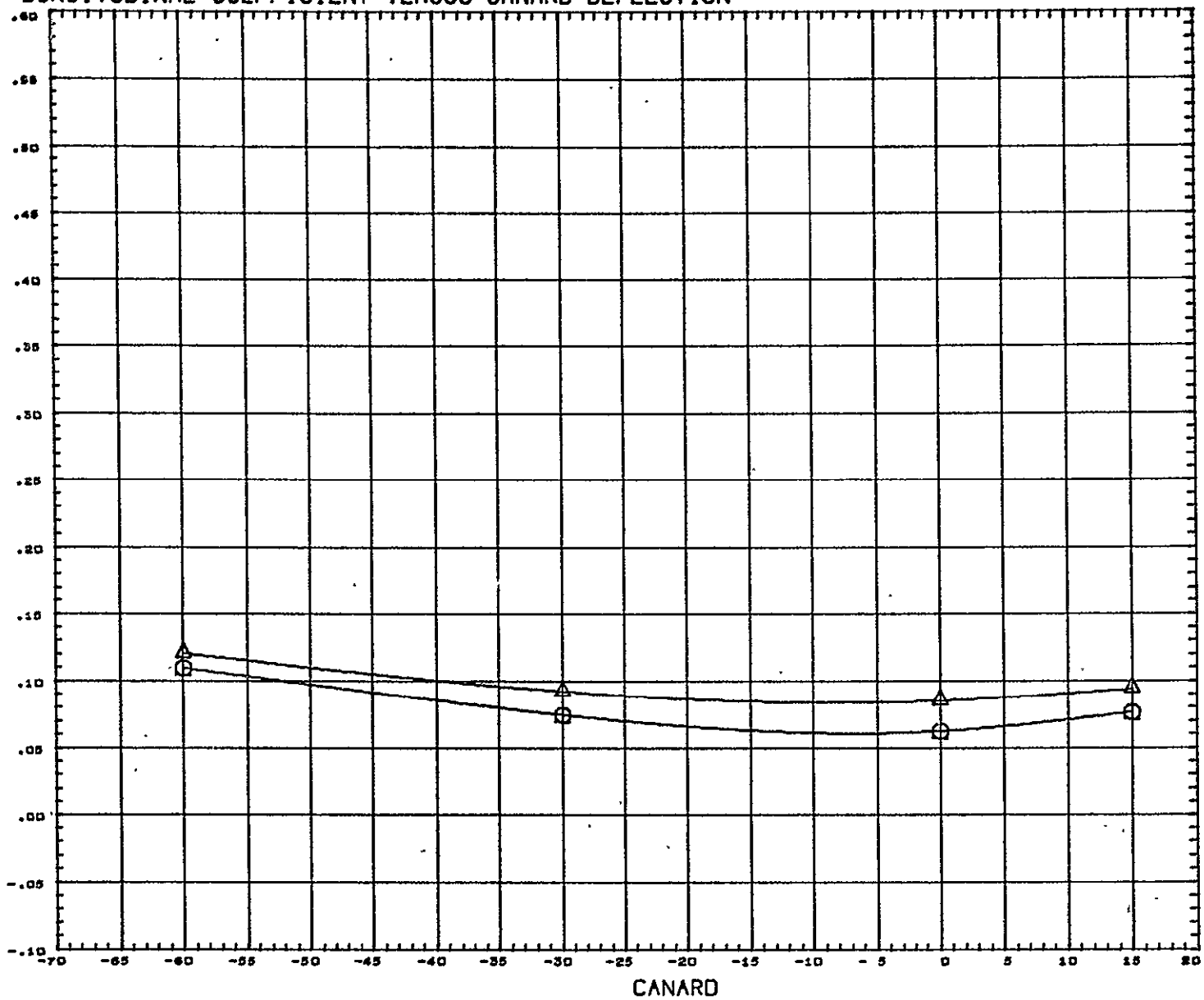
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

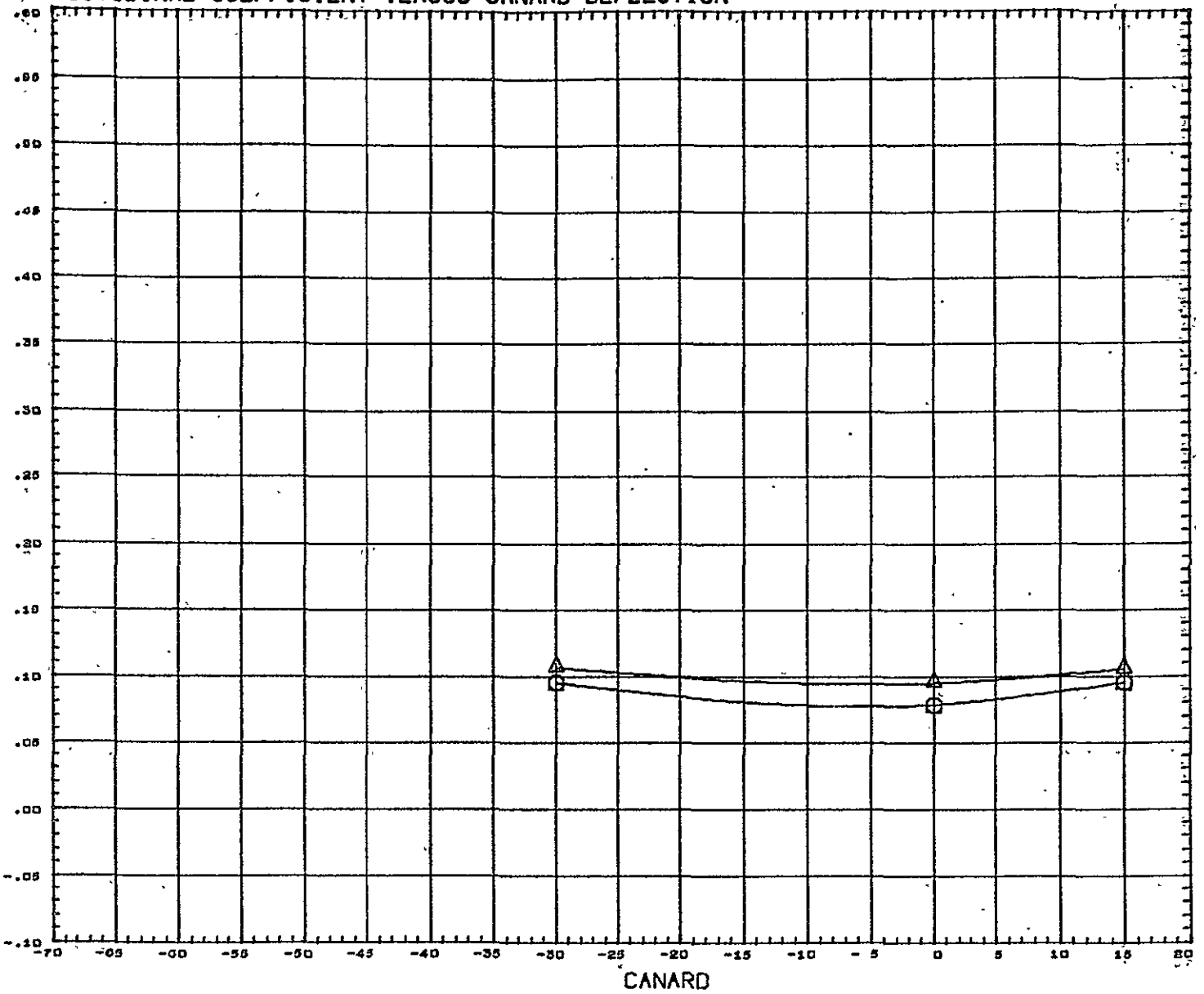
LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	0.900	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	G28C47	- 60.000	G28C50	- 45.000	LREF	3.0950	IN.
		DCL	- 60.000	DCR	- 60.000	G28C41	- 30.000	G28B31	0.000	BREF	6.0990	IN.
		ELEVON	0.000	AILRON	0.000	G28C44	15.000			XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE MVR*EI

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
◇	10.000
▽	20.000

PARAMETRIC VALUES

MACH	0.950	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR9E1

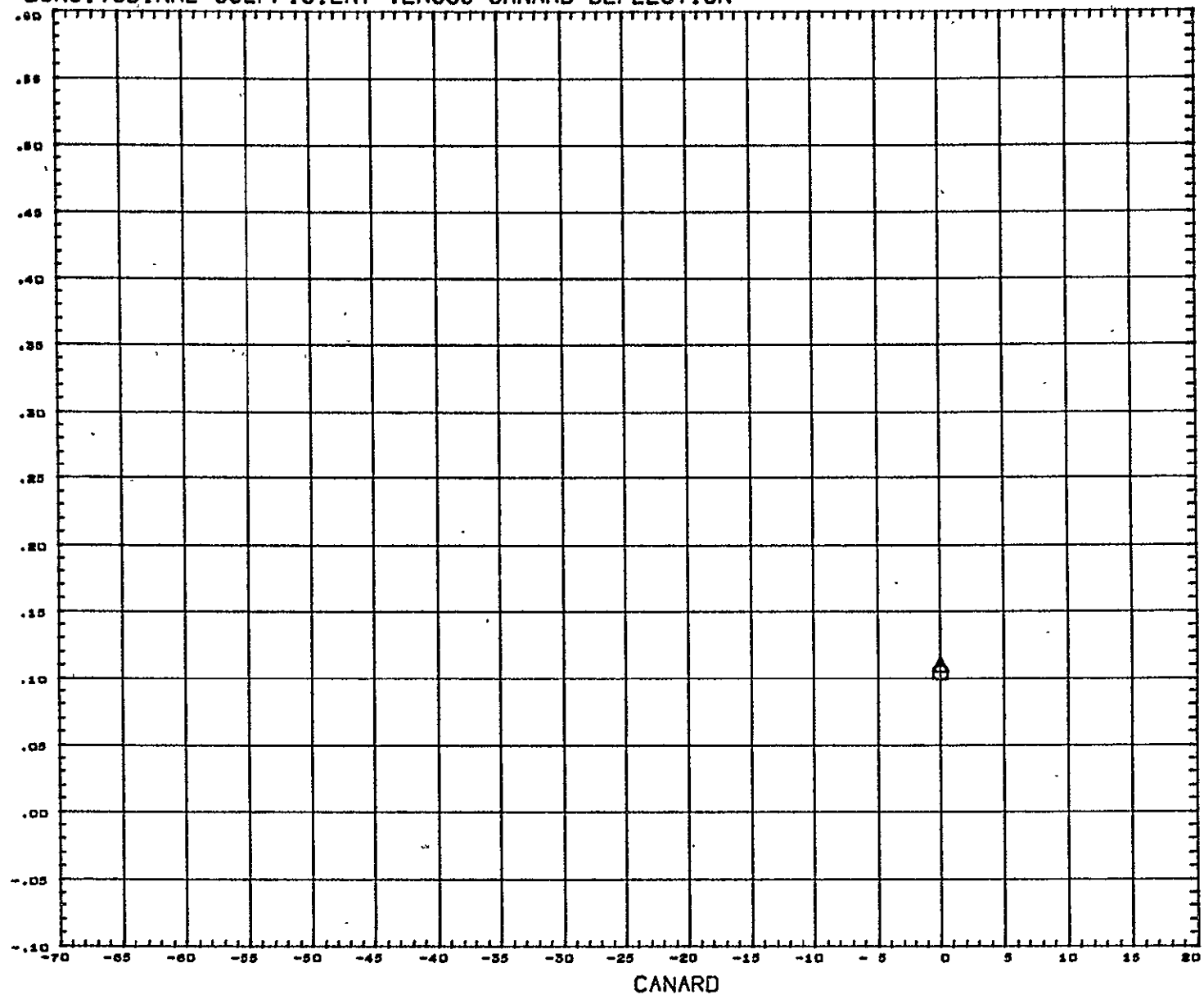
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR#EI

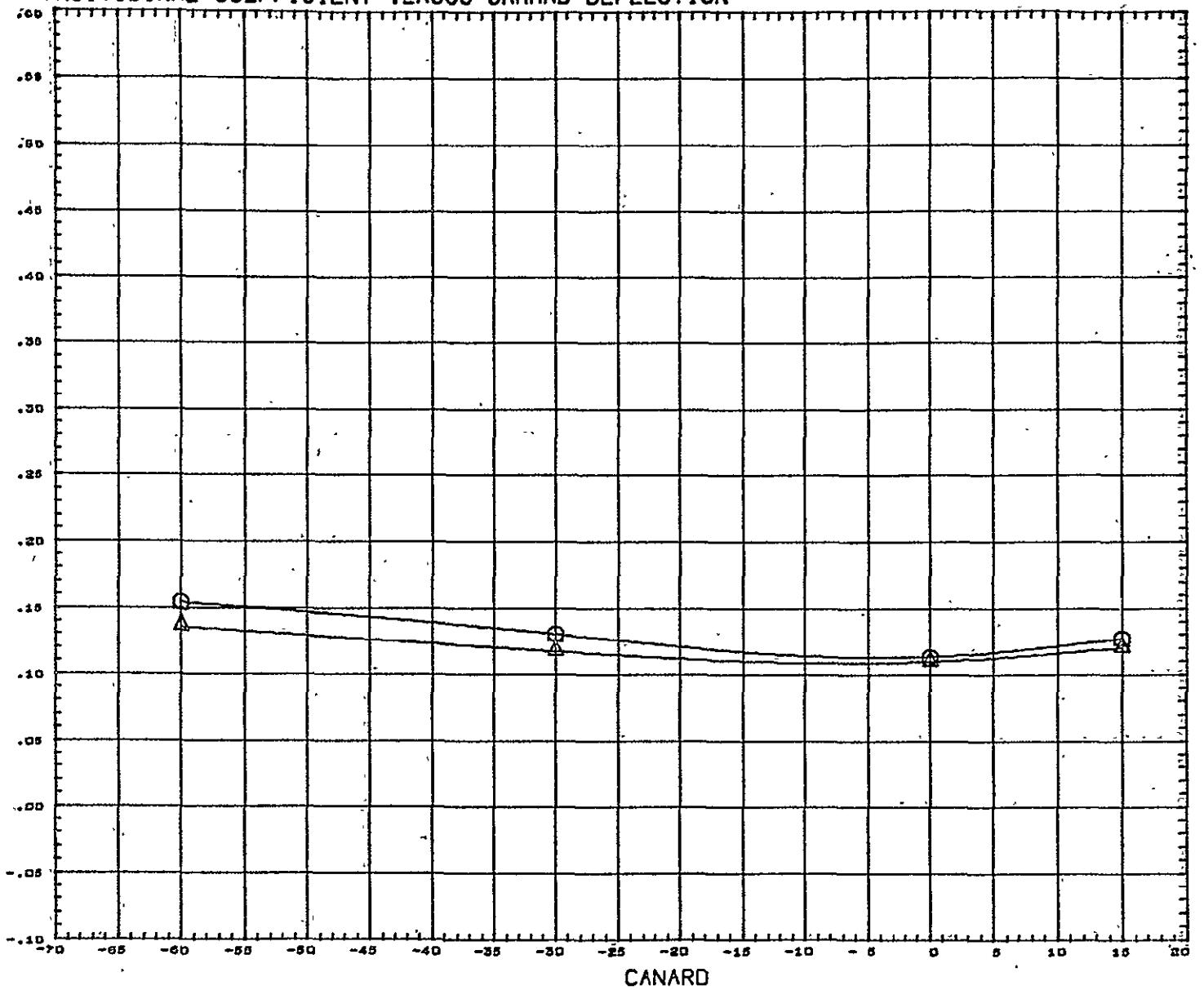
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.050	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR#E1

DATA SOURCE

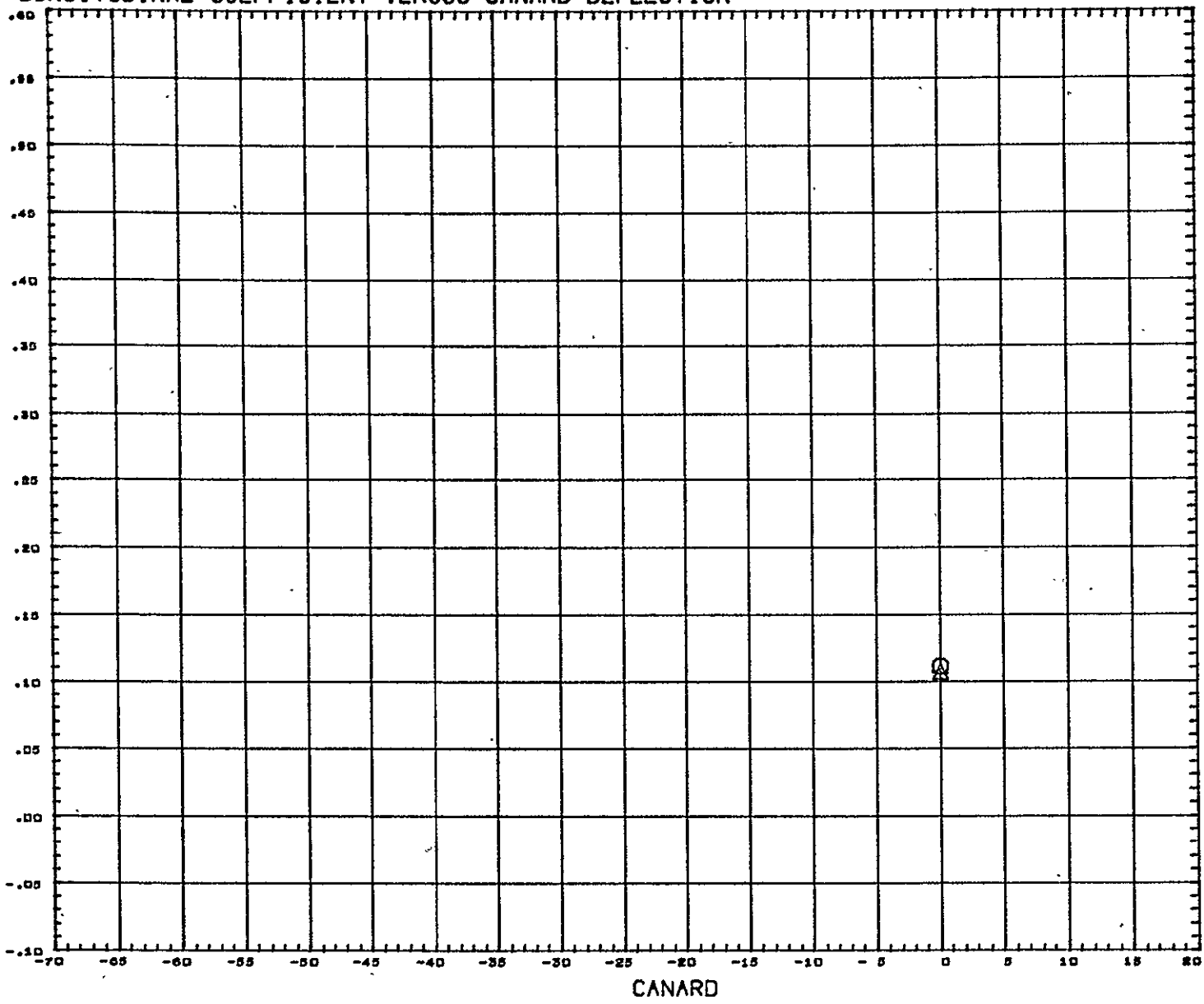
DATASET	CANARD
G28C47	- 60.000
G28C41	- 30.000
G28C44	15.000

DATASET	CANARD
G28C50	- 45.000
G28B51	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.100	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1

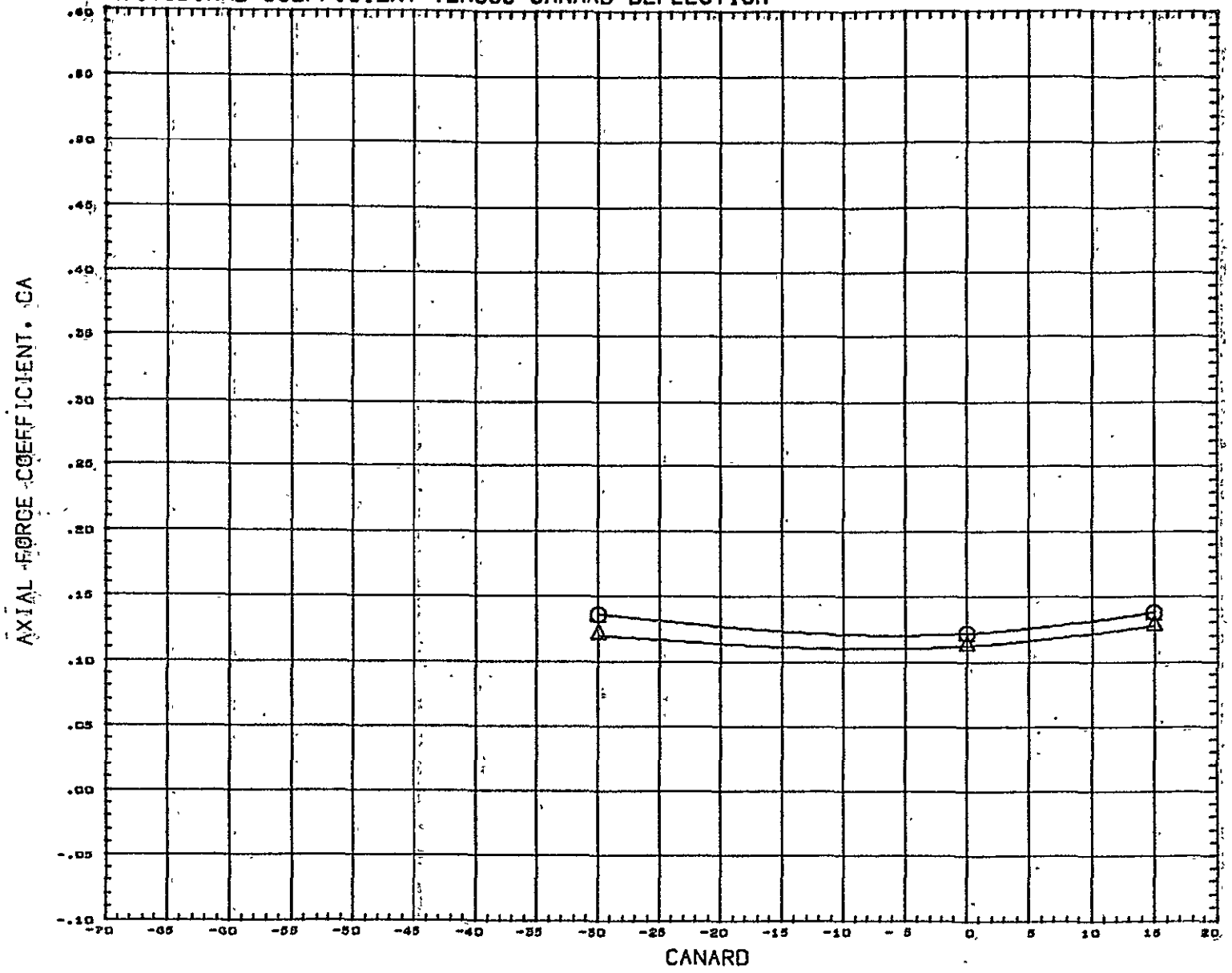
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6960	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
	10.000
	20.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA SOURCE

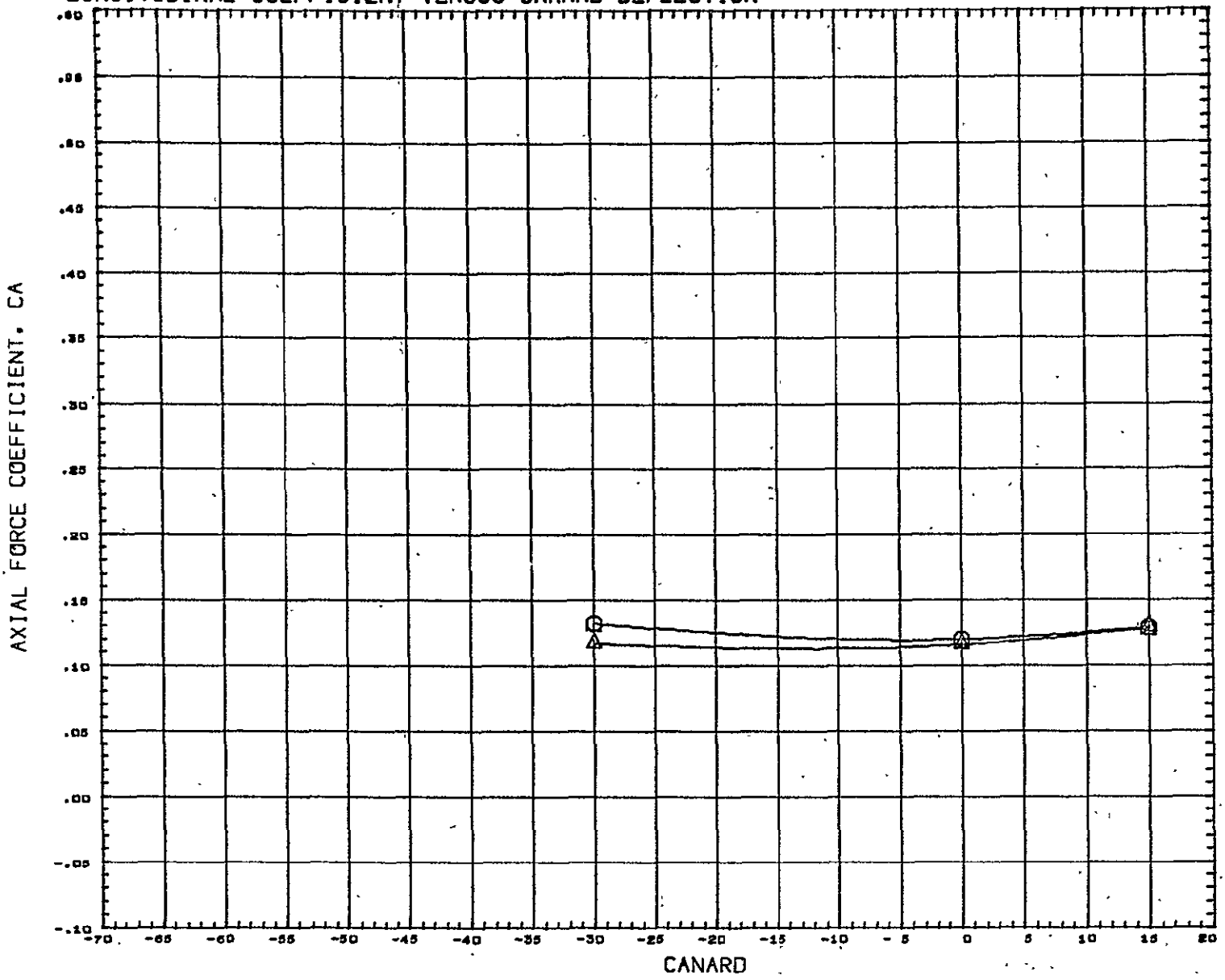
DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE: MVR*EI

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.500	BETA	0.000
DEL	0.000	DER	0.000
DCL	-60.000	DCR	-60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

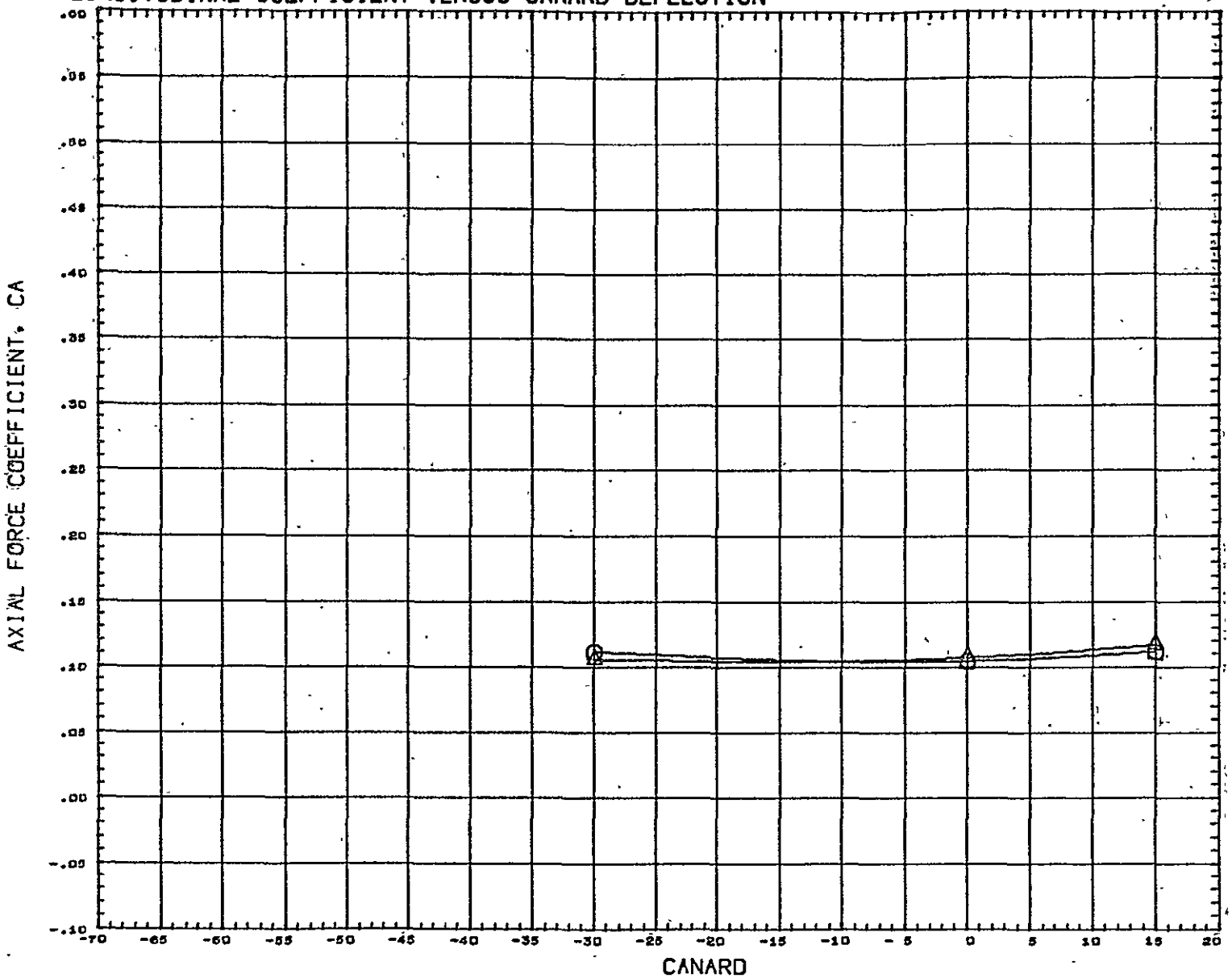
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	-60.000	G28C50	-45.000
G28C41	-30.000	G28B31	0.000
G26C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000 ,	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

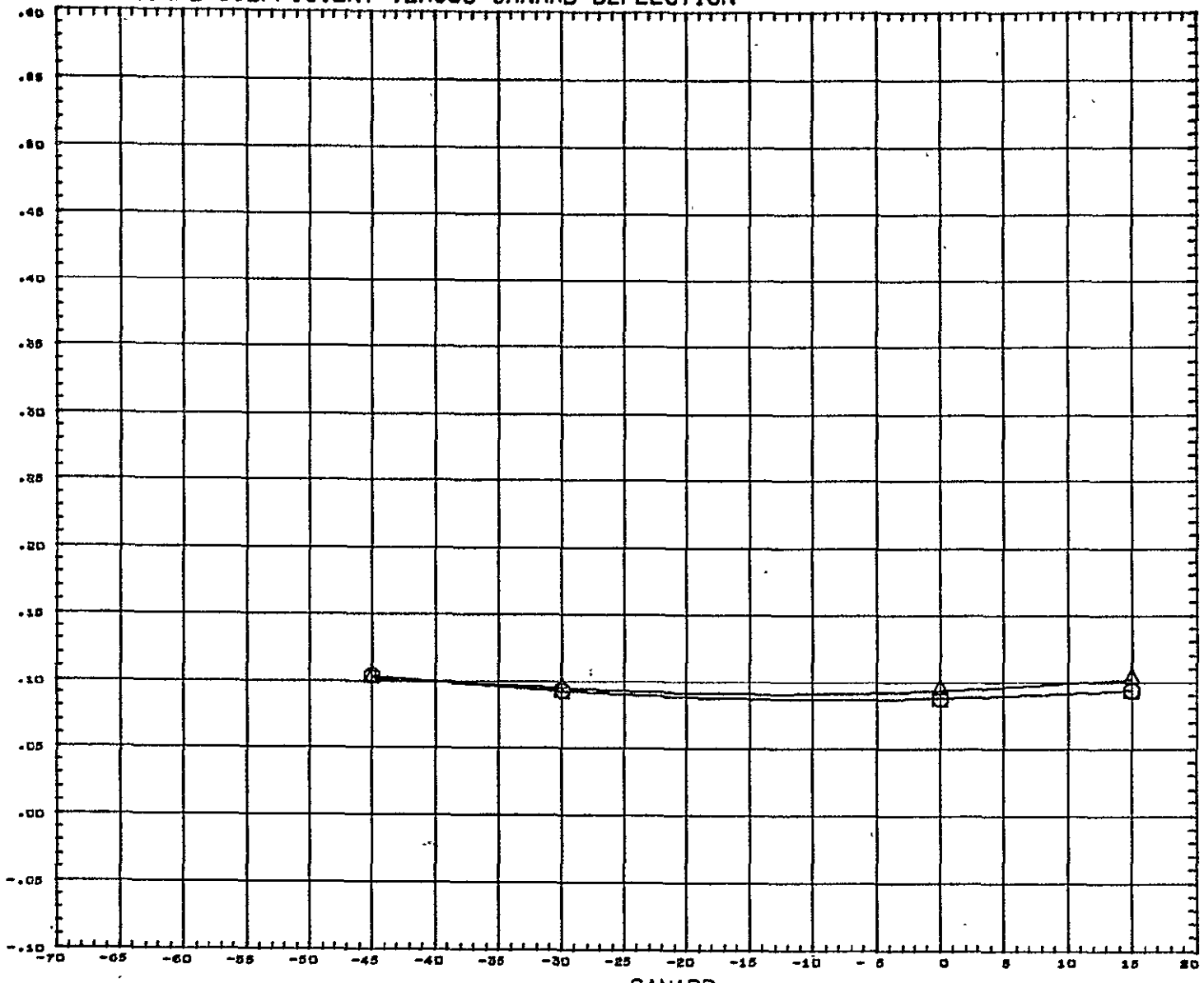
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

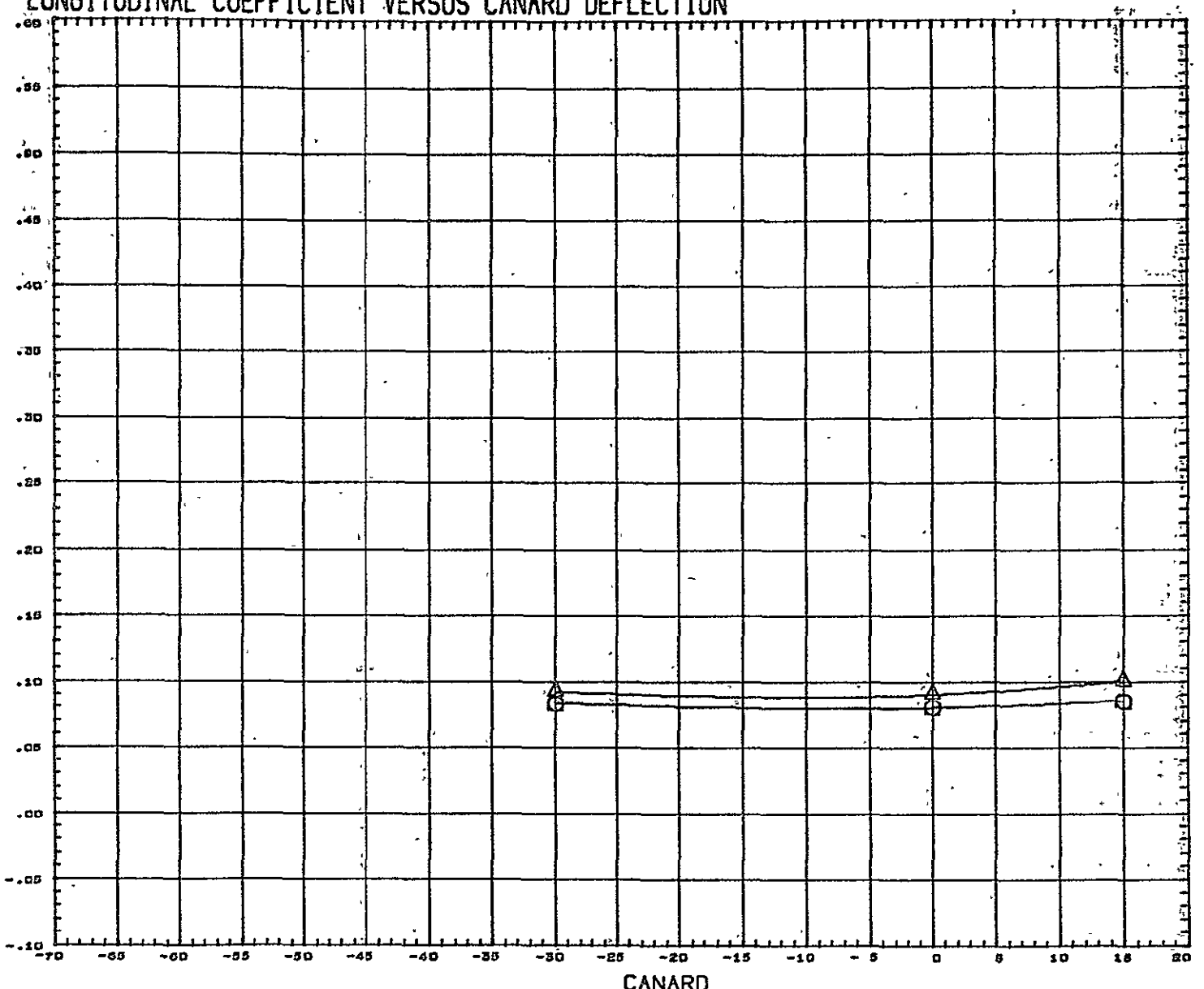
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*E1

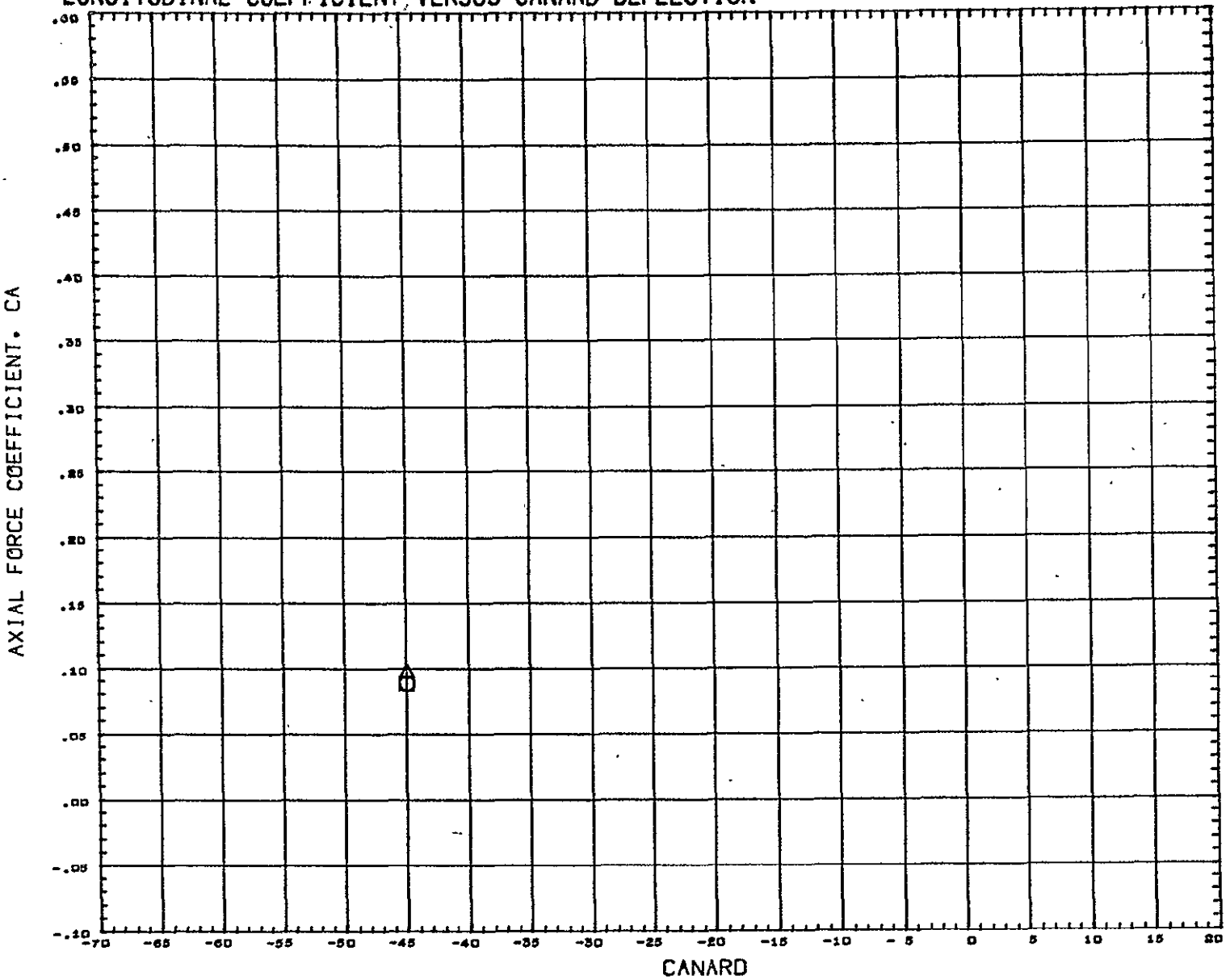
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.500	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*E1

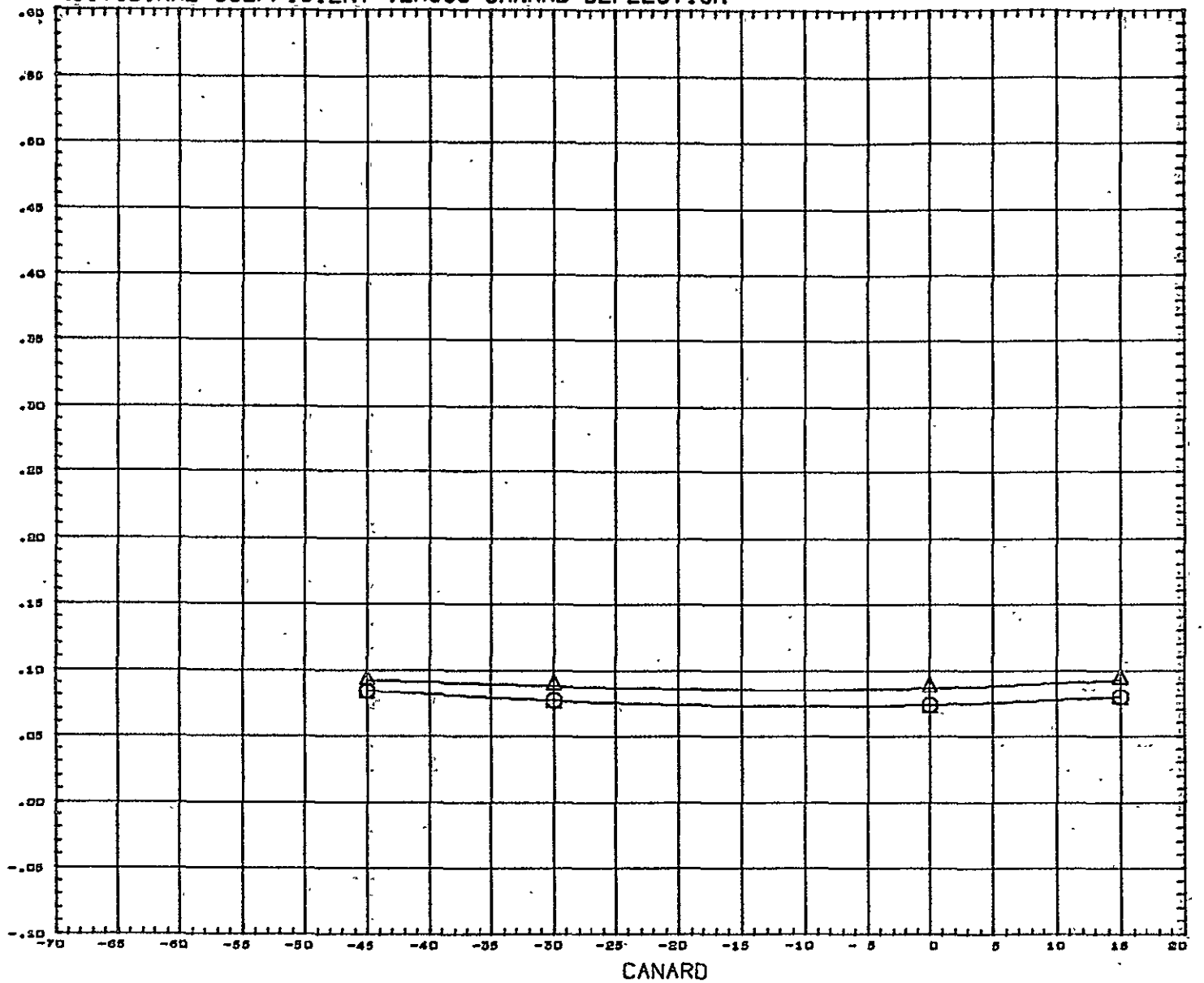
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA SOURCE

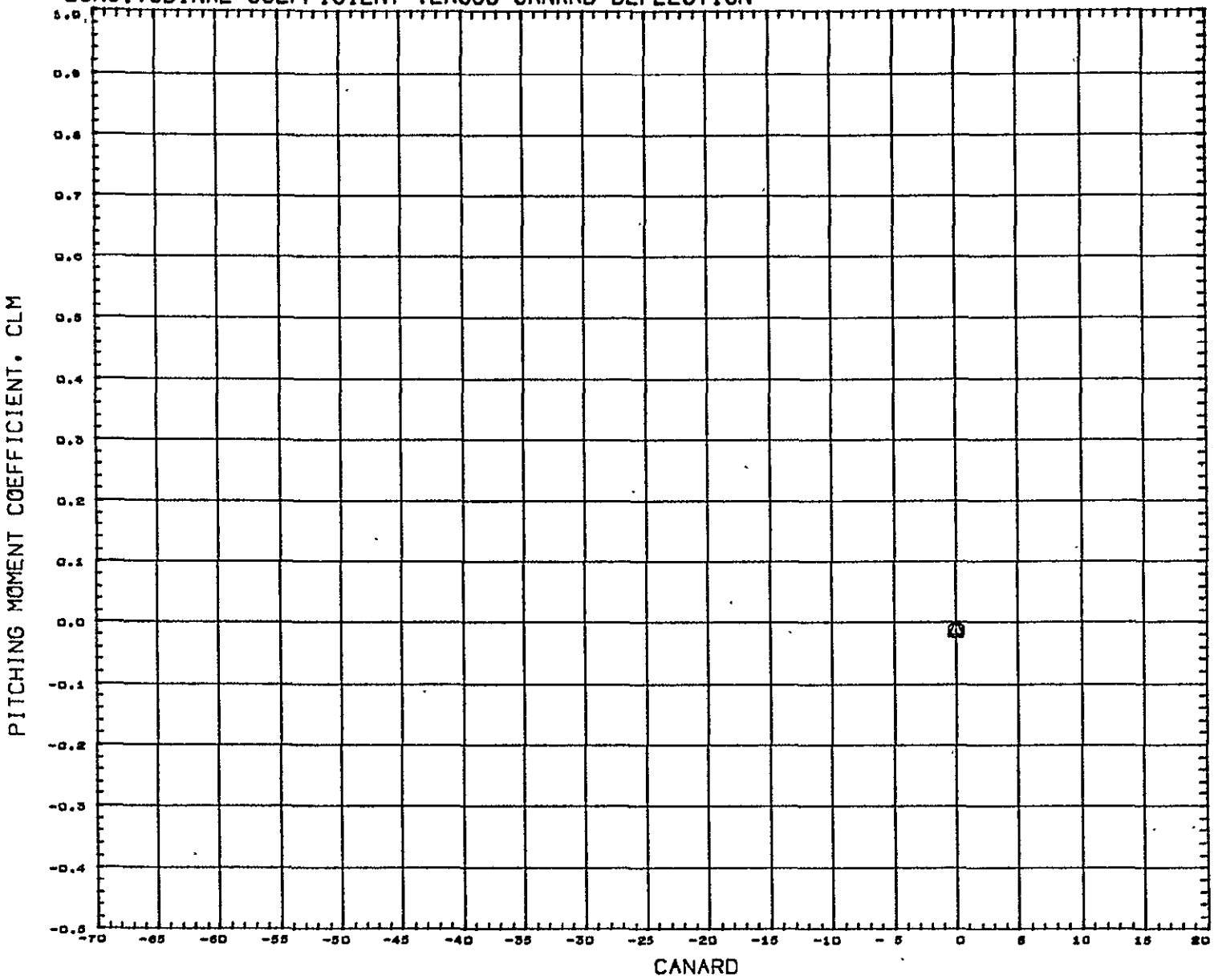
DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE MVR*E1

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.600	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

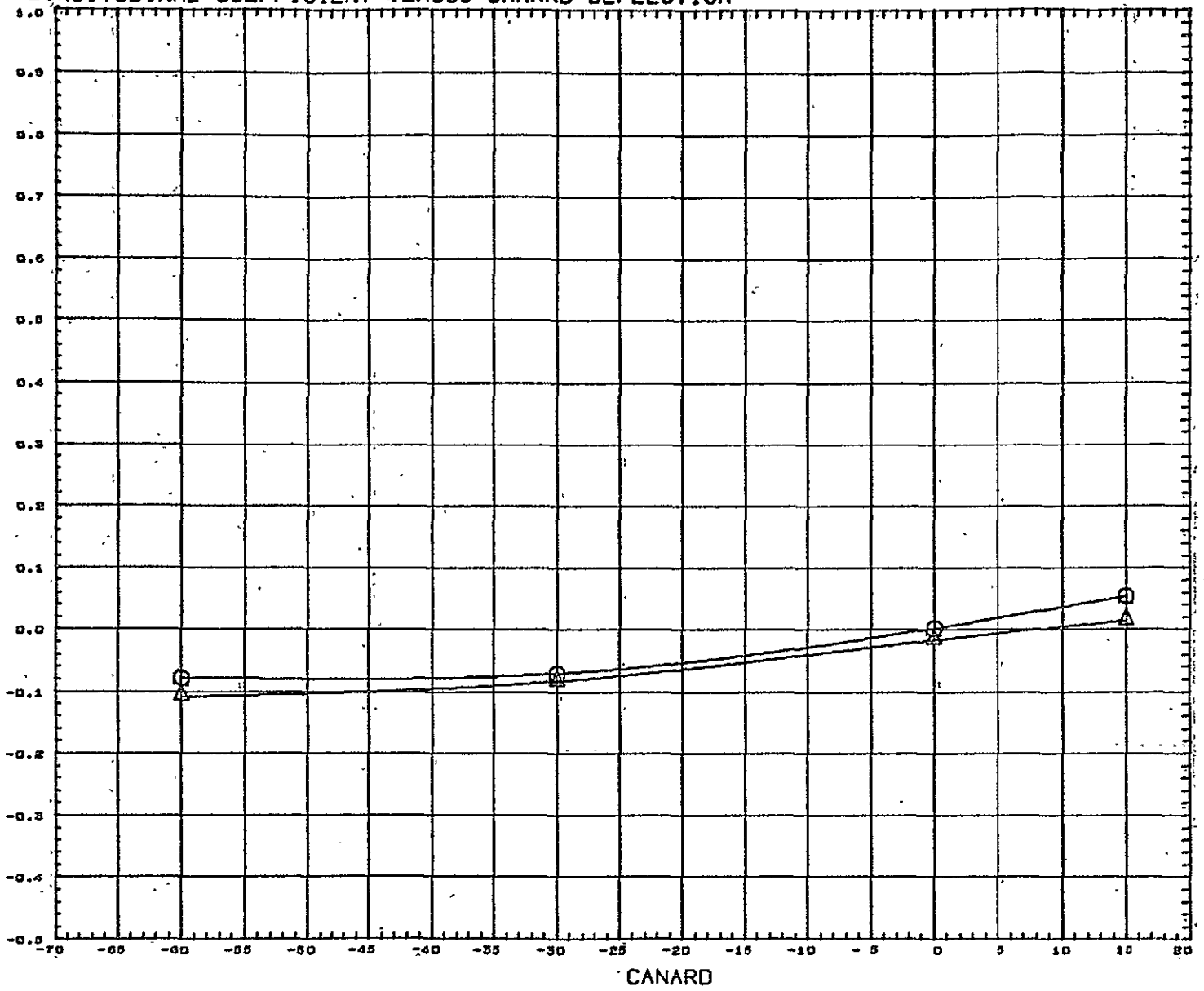
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

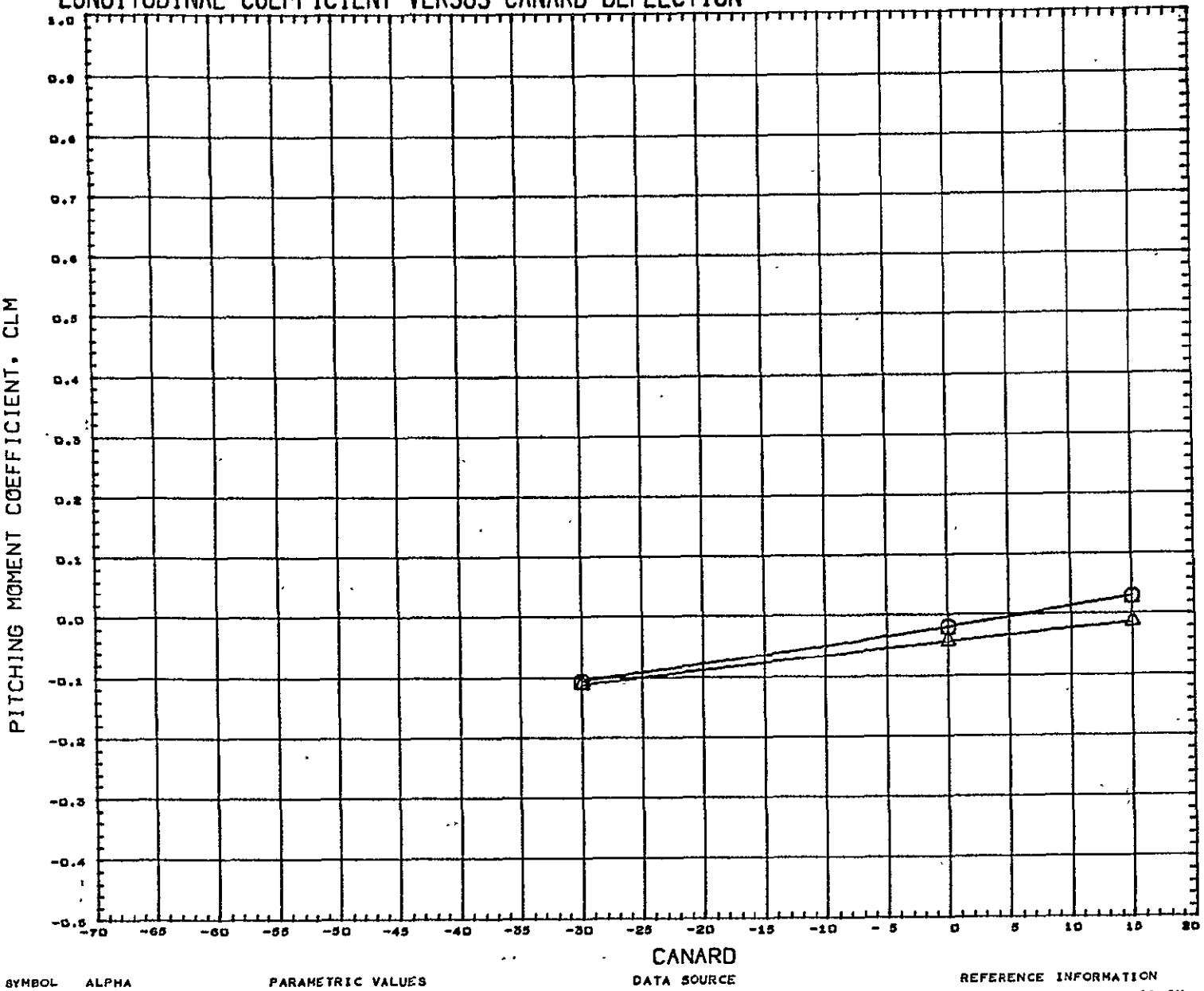
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.950	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1

DATA SOURCE

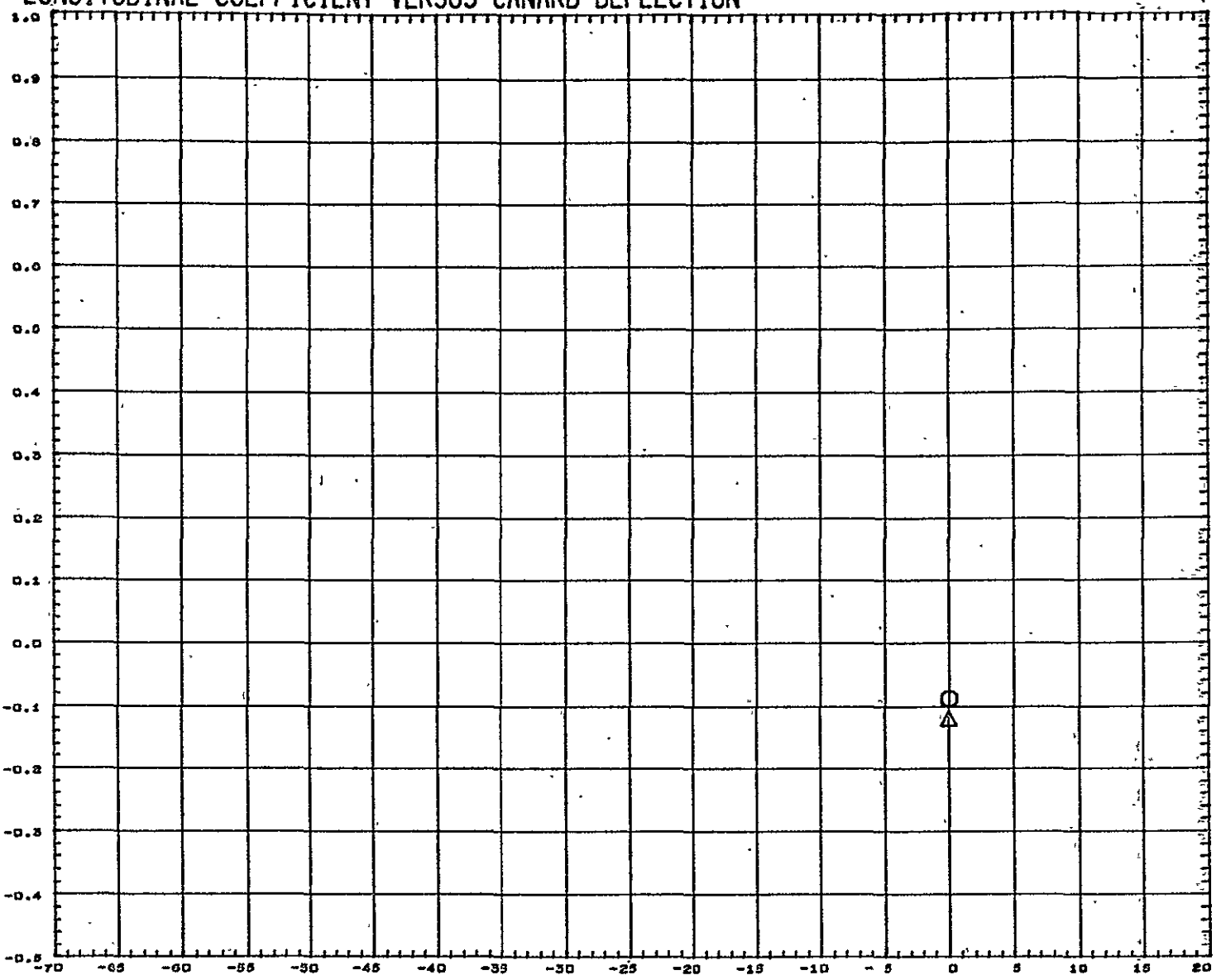
DATASET	CANARD
G28C47	- 60.000
G28C41	- 30.000
G28C44	15.000

DATASET	CANARD
G28C50	- 45.000
G28B31	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR&EI

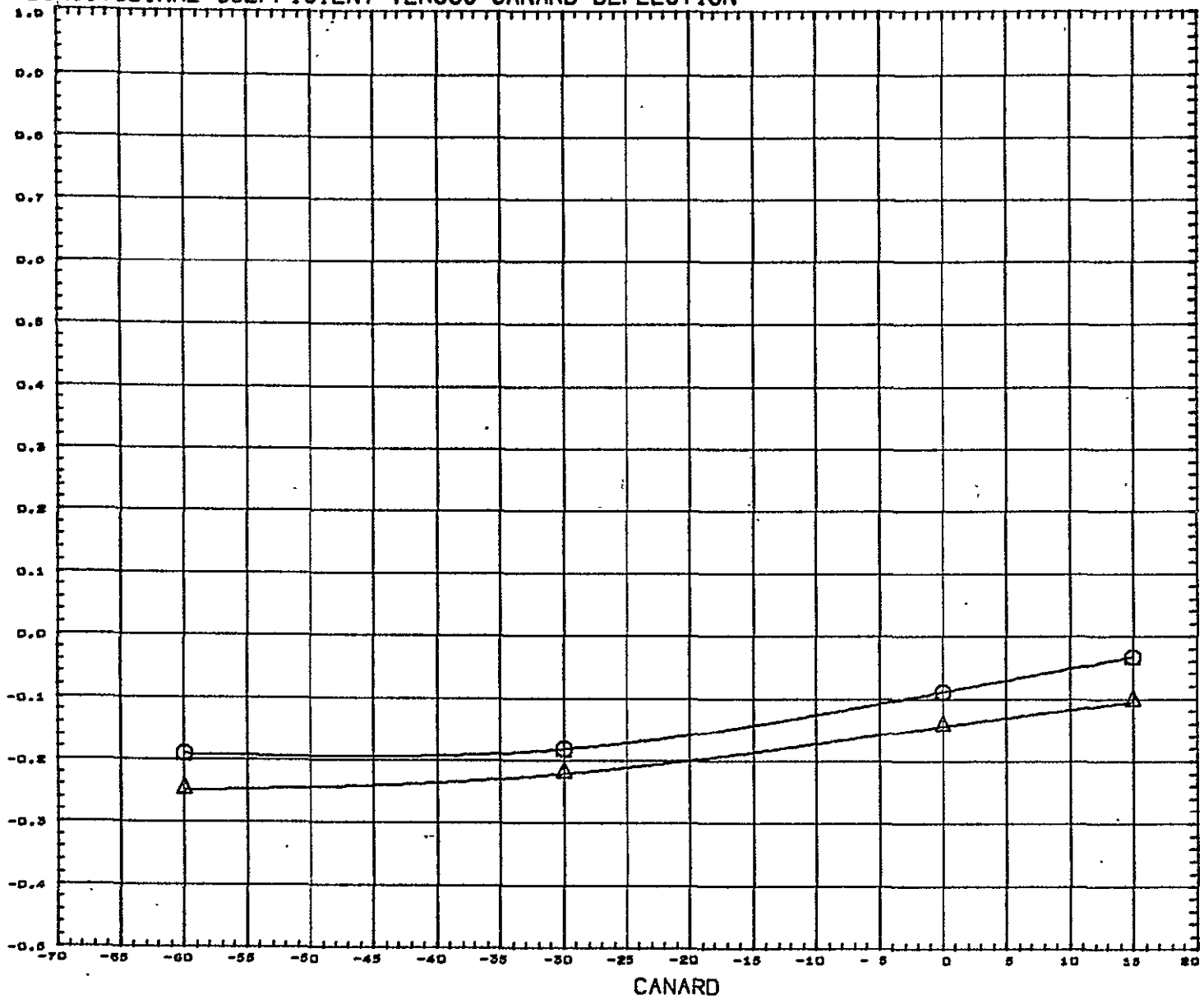
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.050	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1

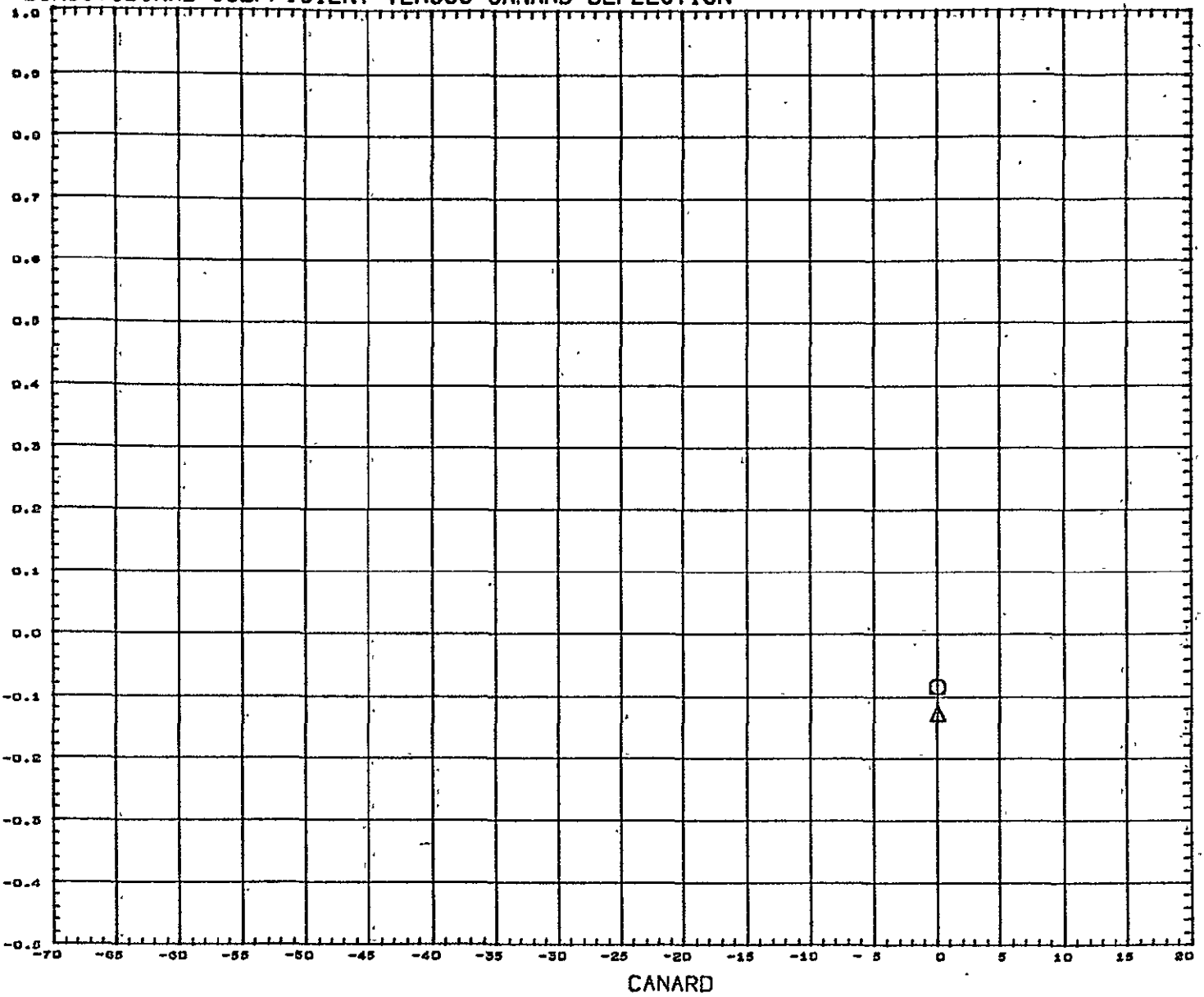
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.100	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR#E1

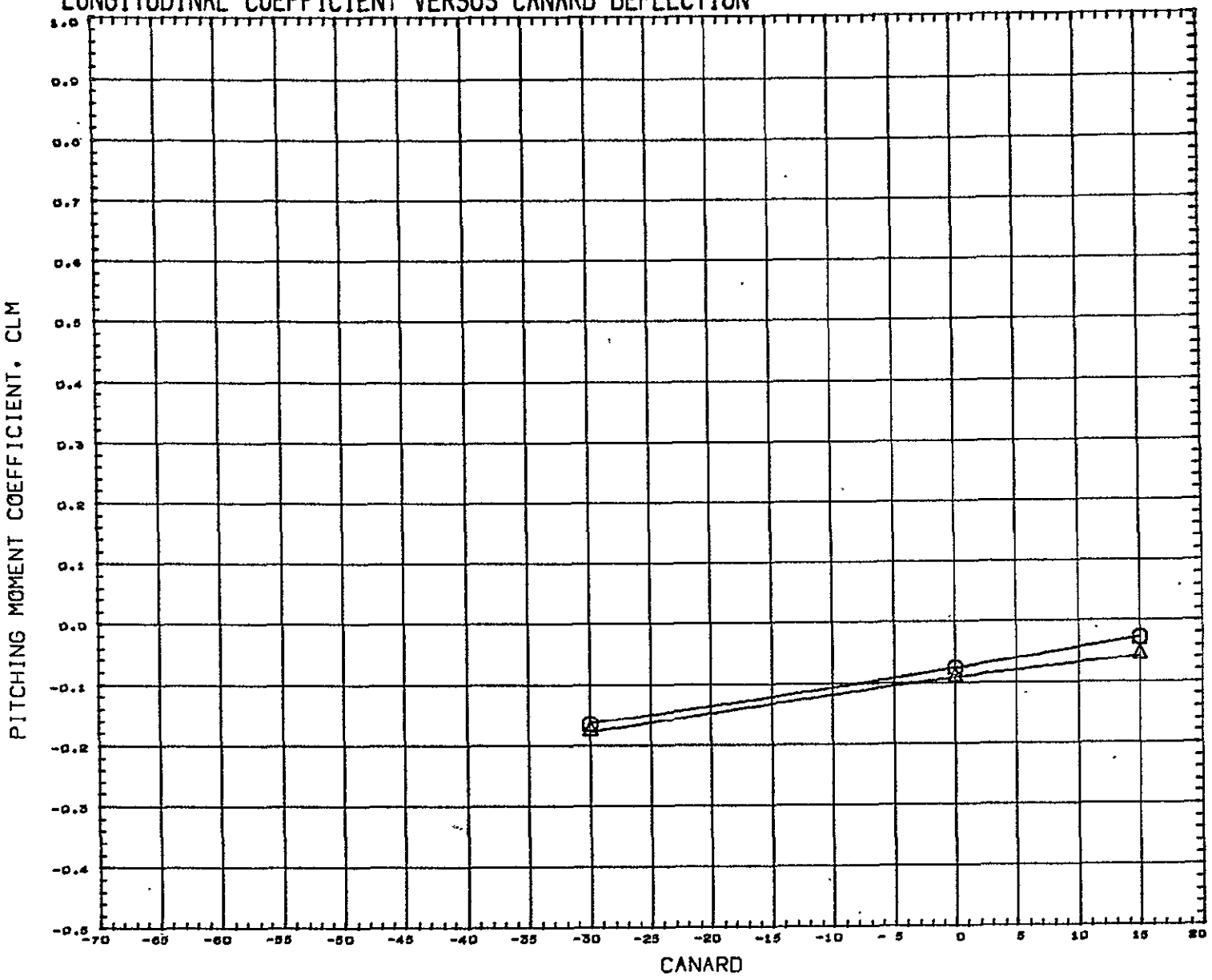
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000		
DEL	0.000	DER	0.000		
DCL	- 60.000	DCR	- 60.000		
ELEVON	0.000	AILRON	0.000		

DATA HIST. CODE MVR*EI

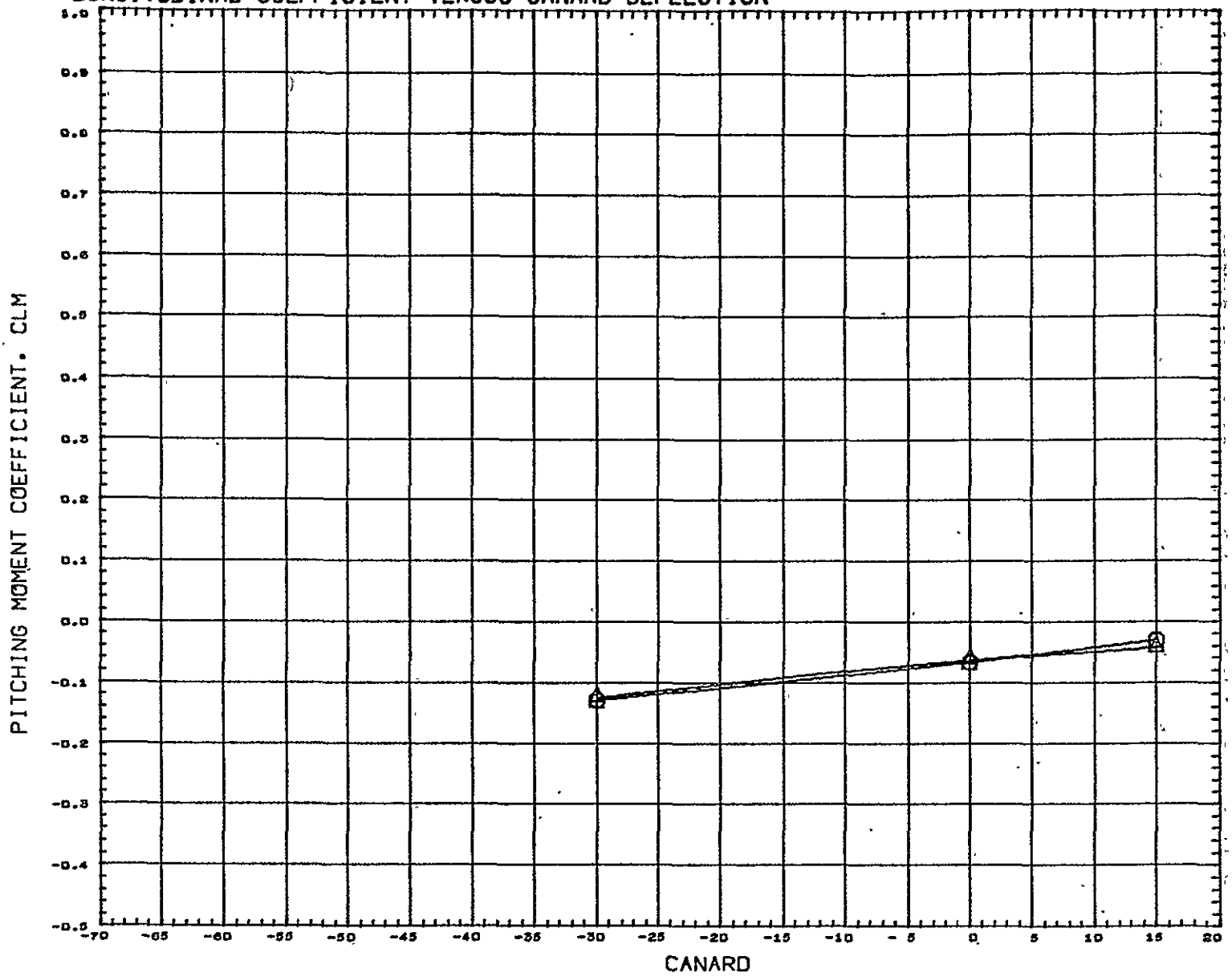
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0090	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.500	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR#E1

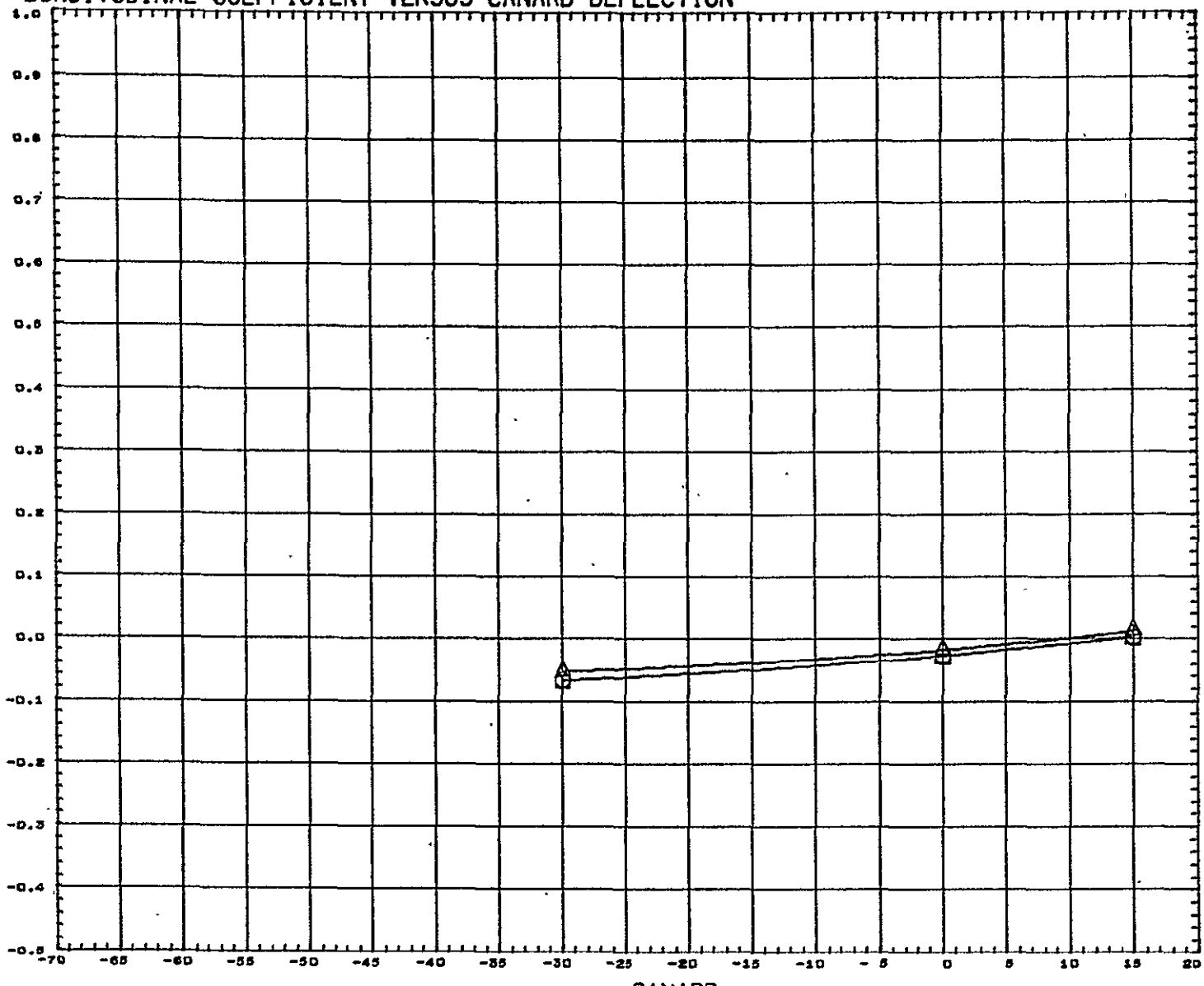
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28831	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

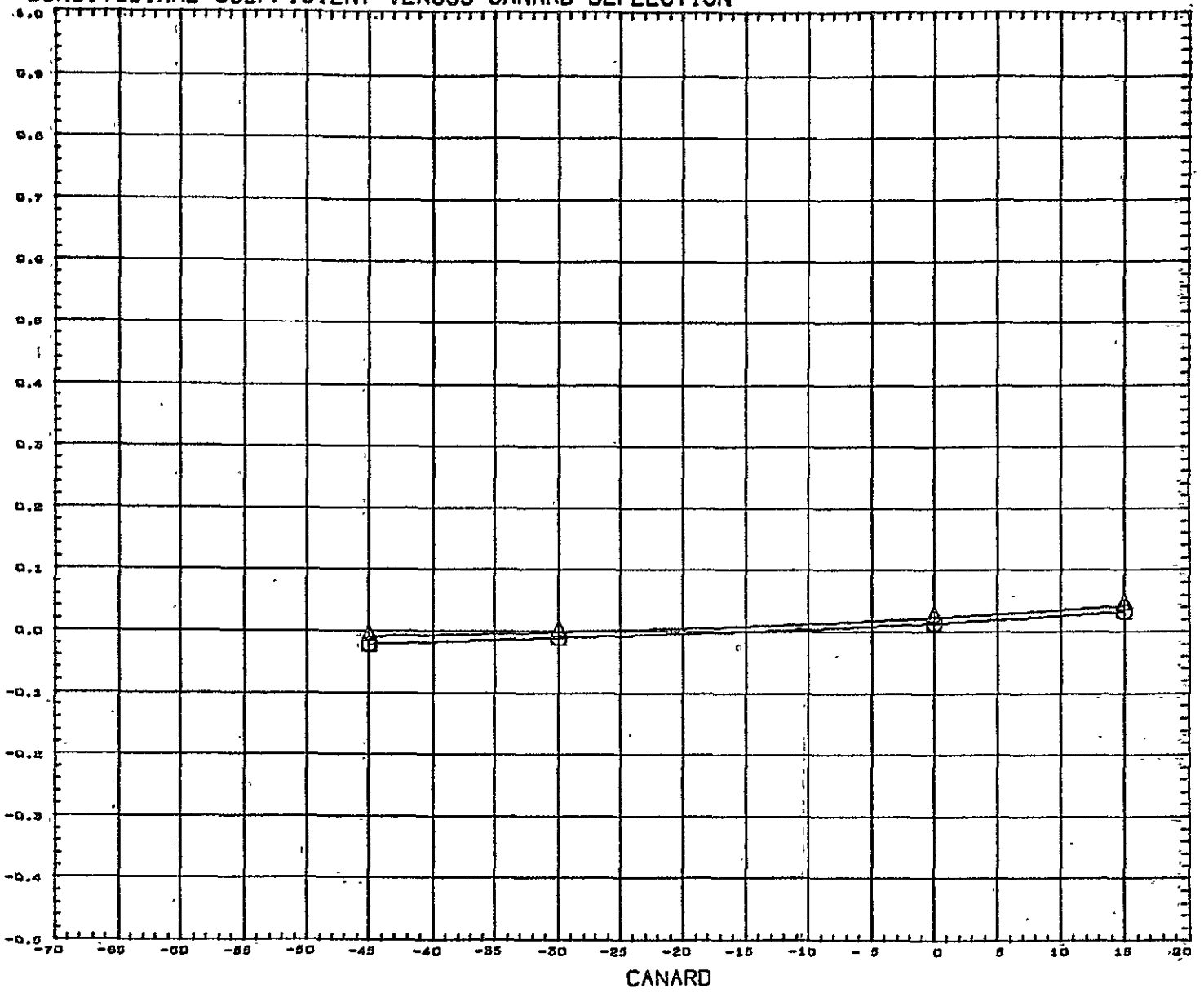
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

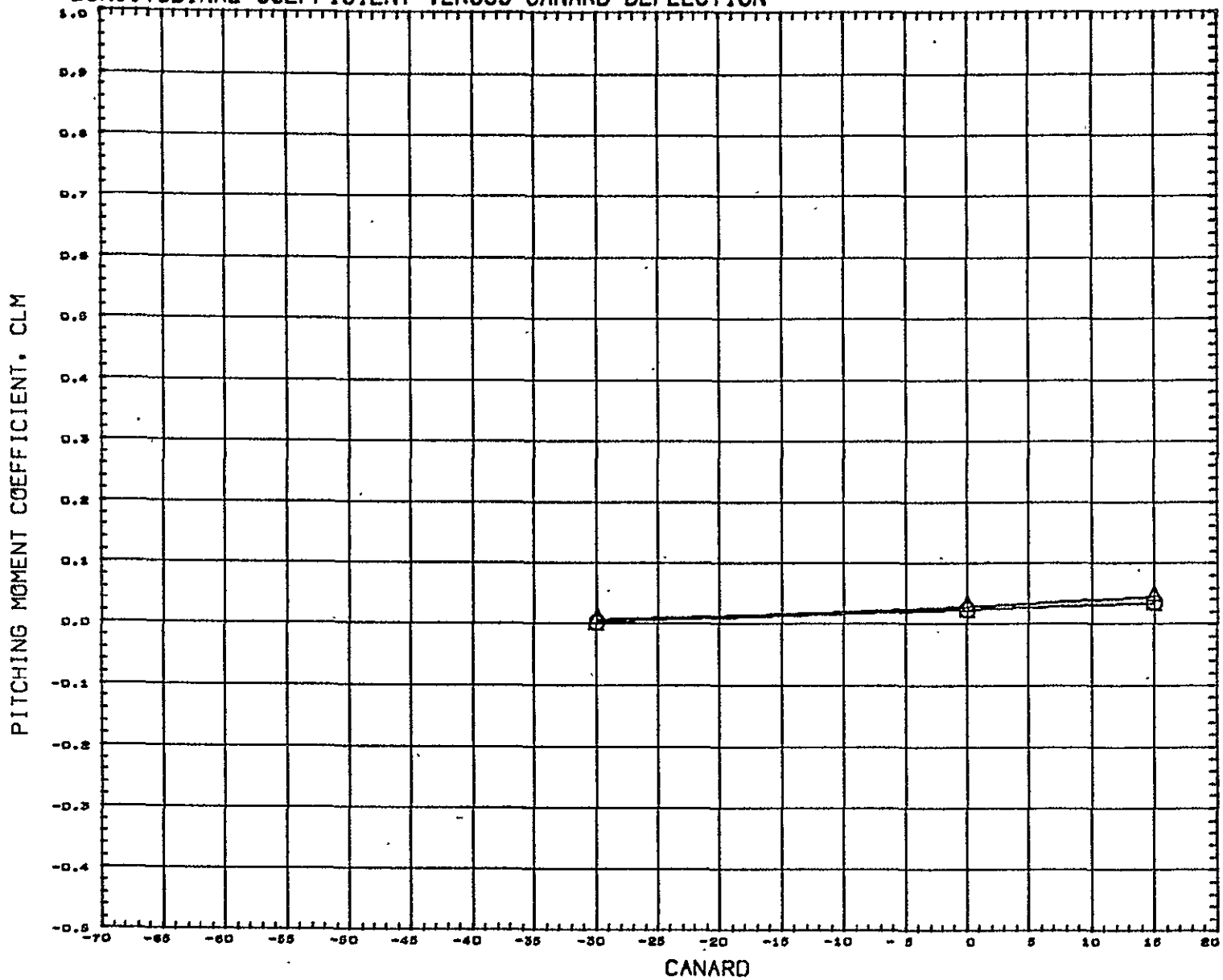
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

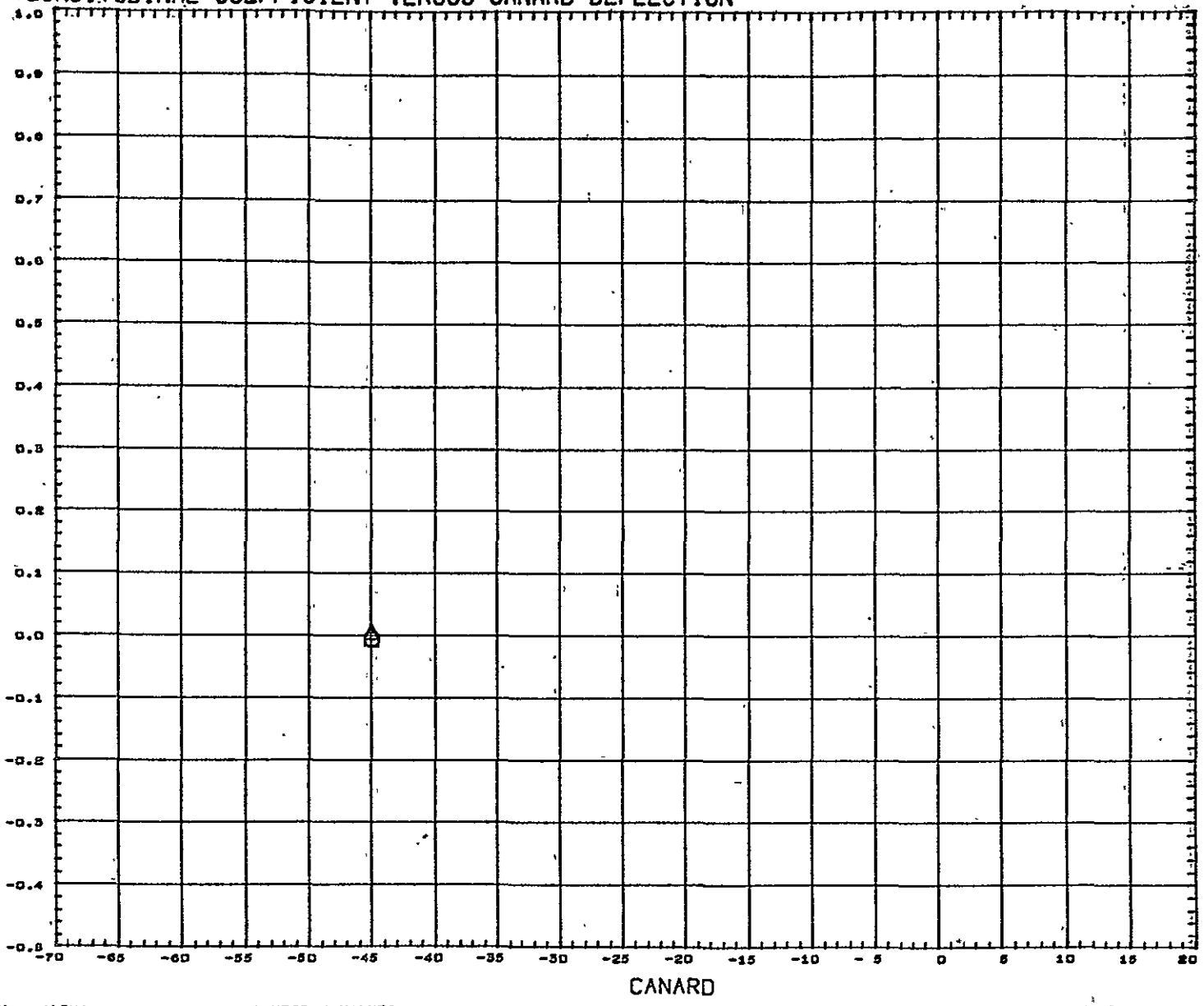
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.500	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR#EI

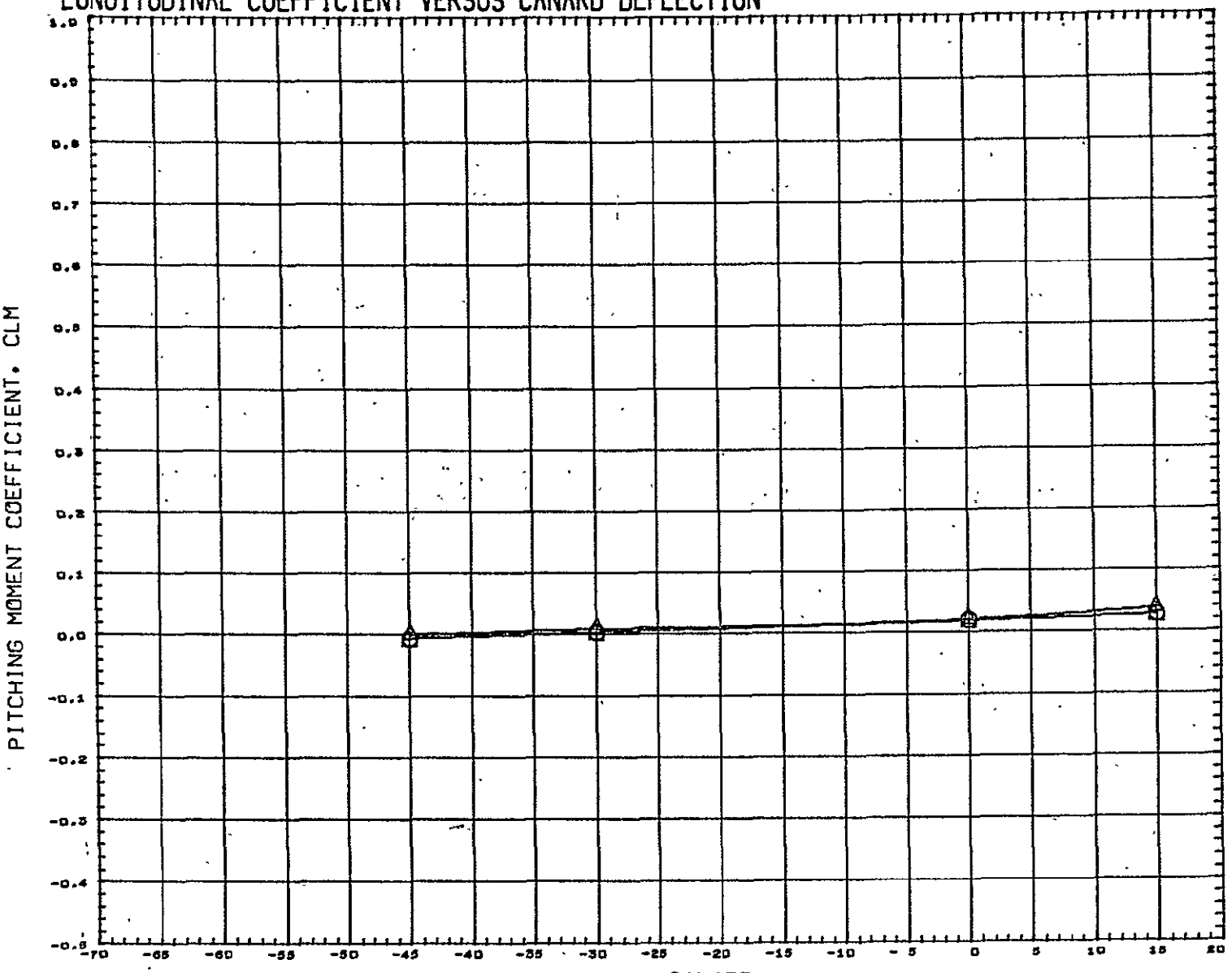
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI-

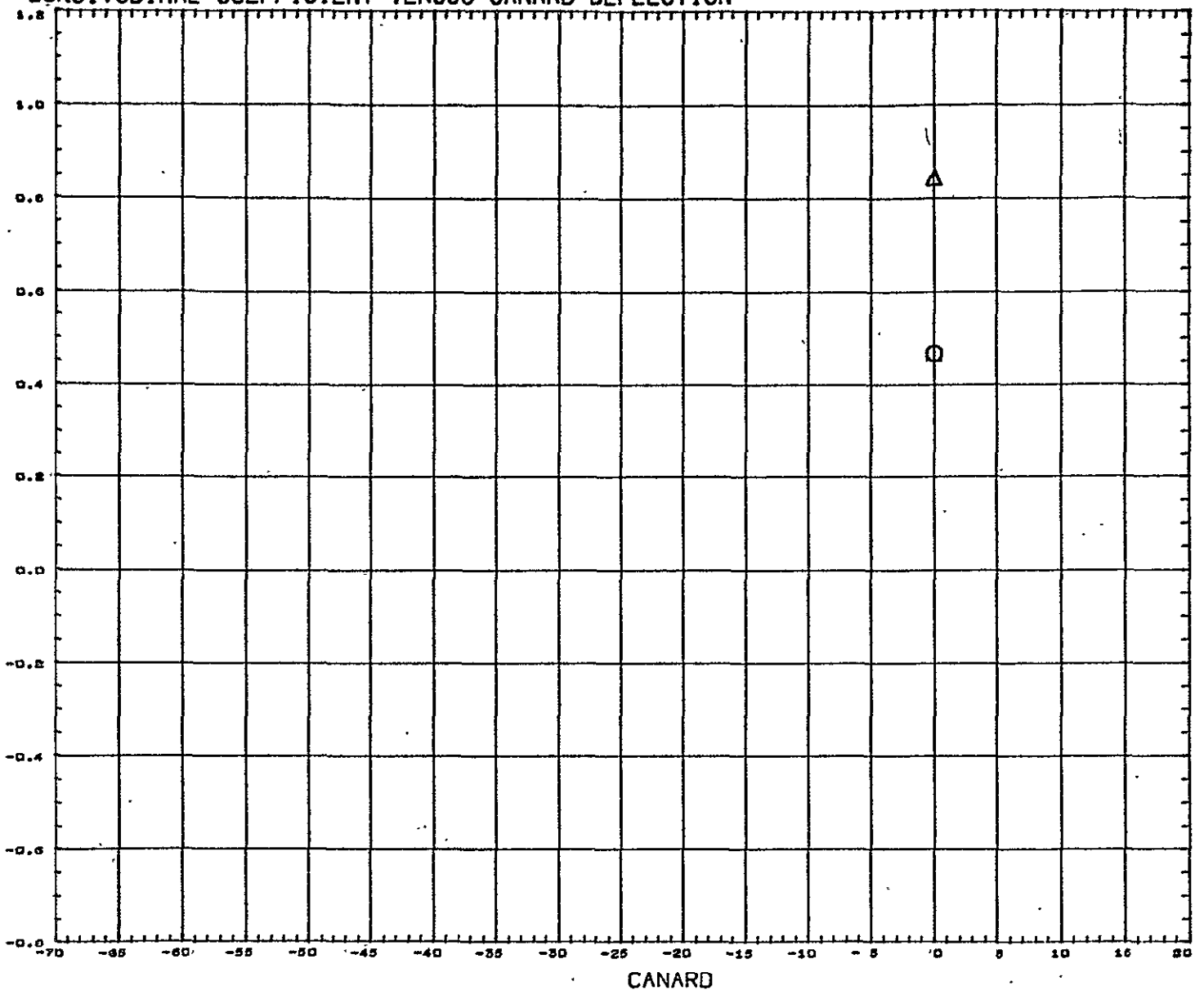
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.600	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

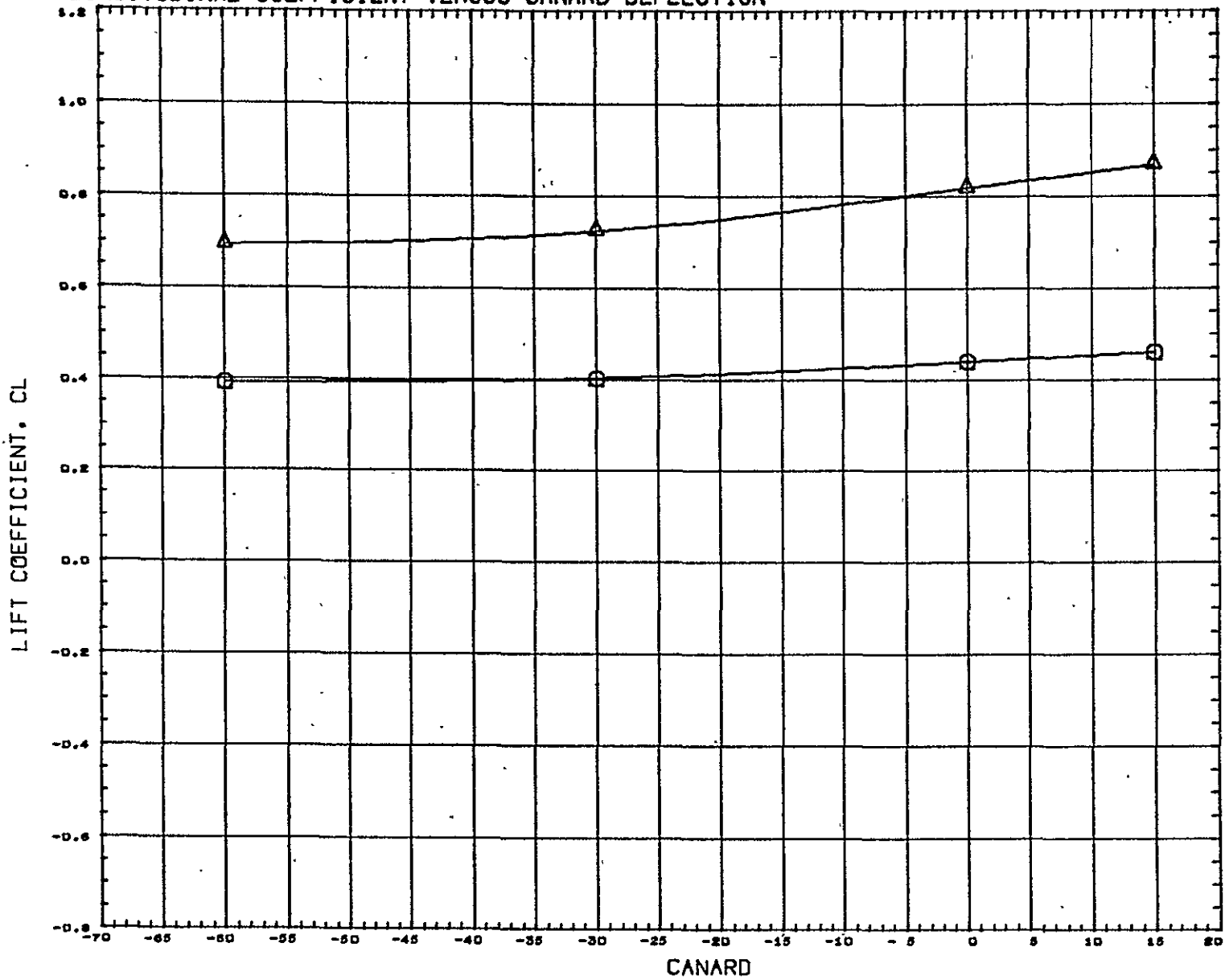
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

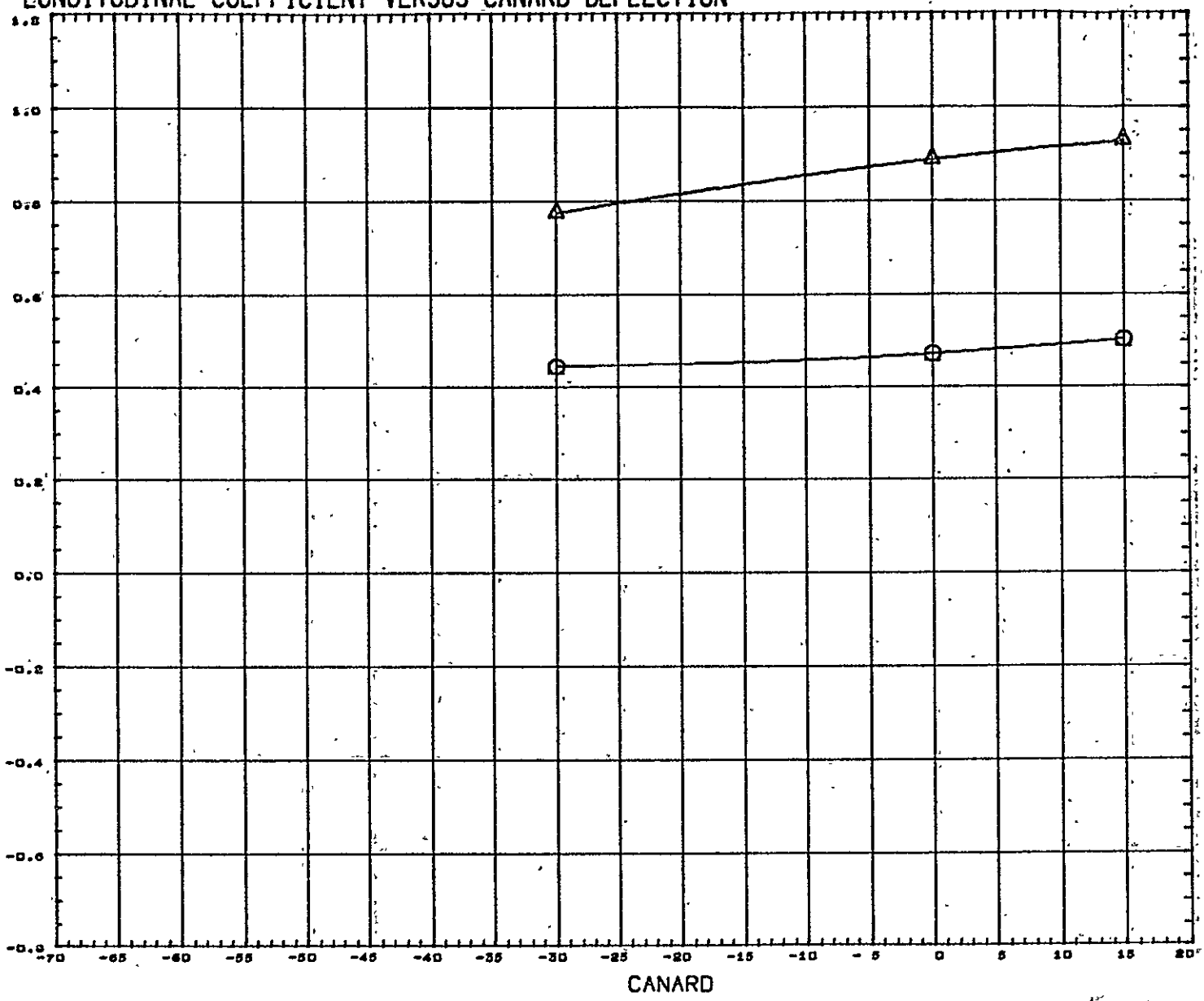
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.950	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1-

DATA SOURCE

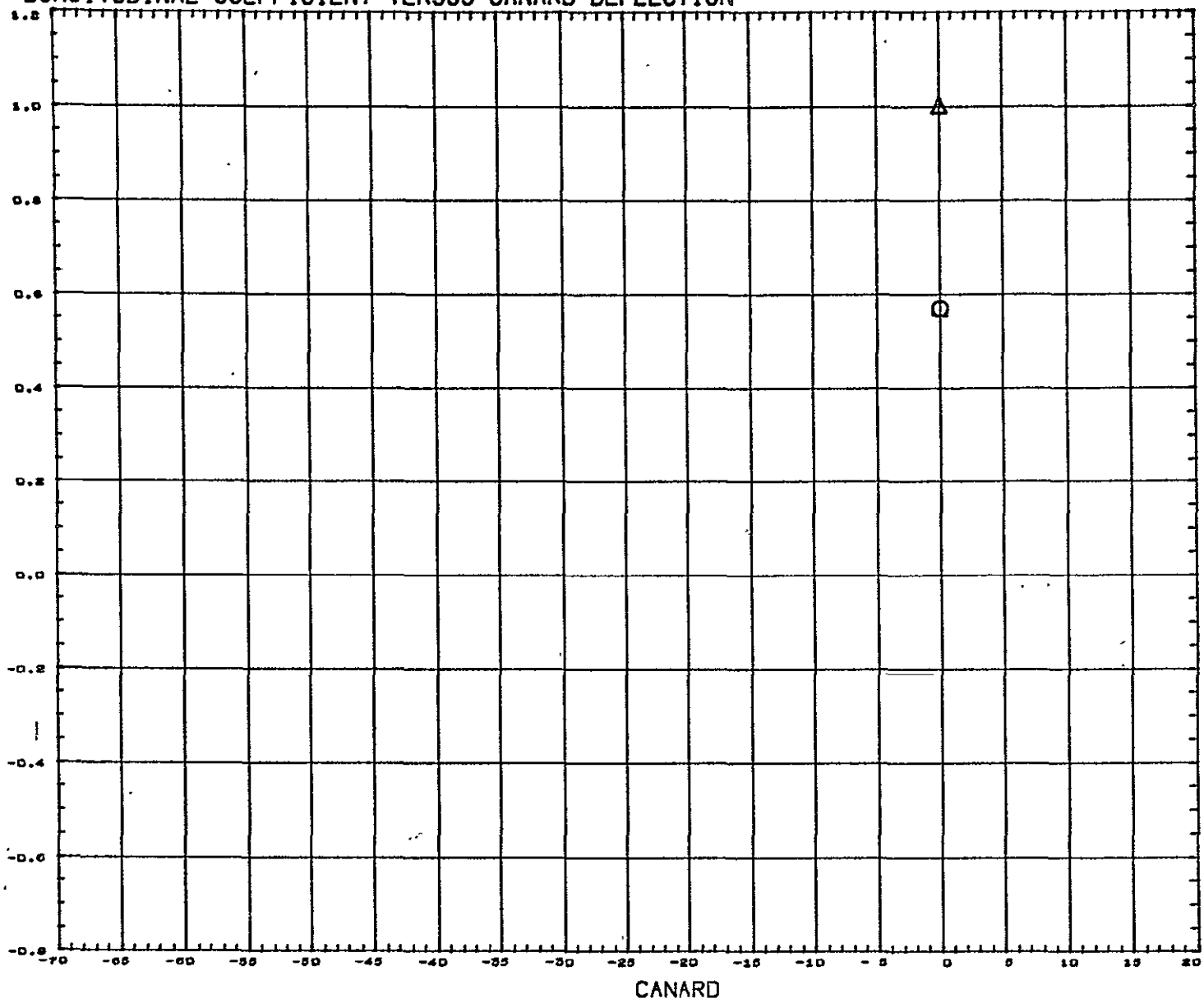
DATASET	CANARD
G28C47	- 60.000
G28C41	- 30.000
G28C44	15.000

DATASET	CANARD
G28C50	- 45.000
G28B31	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

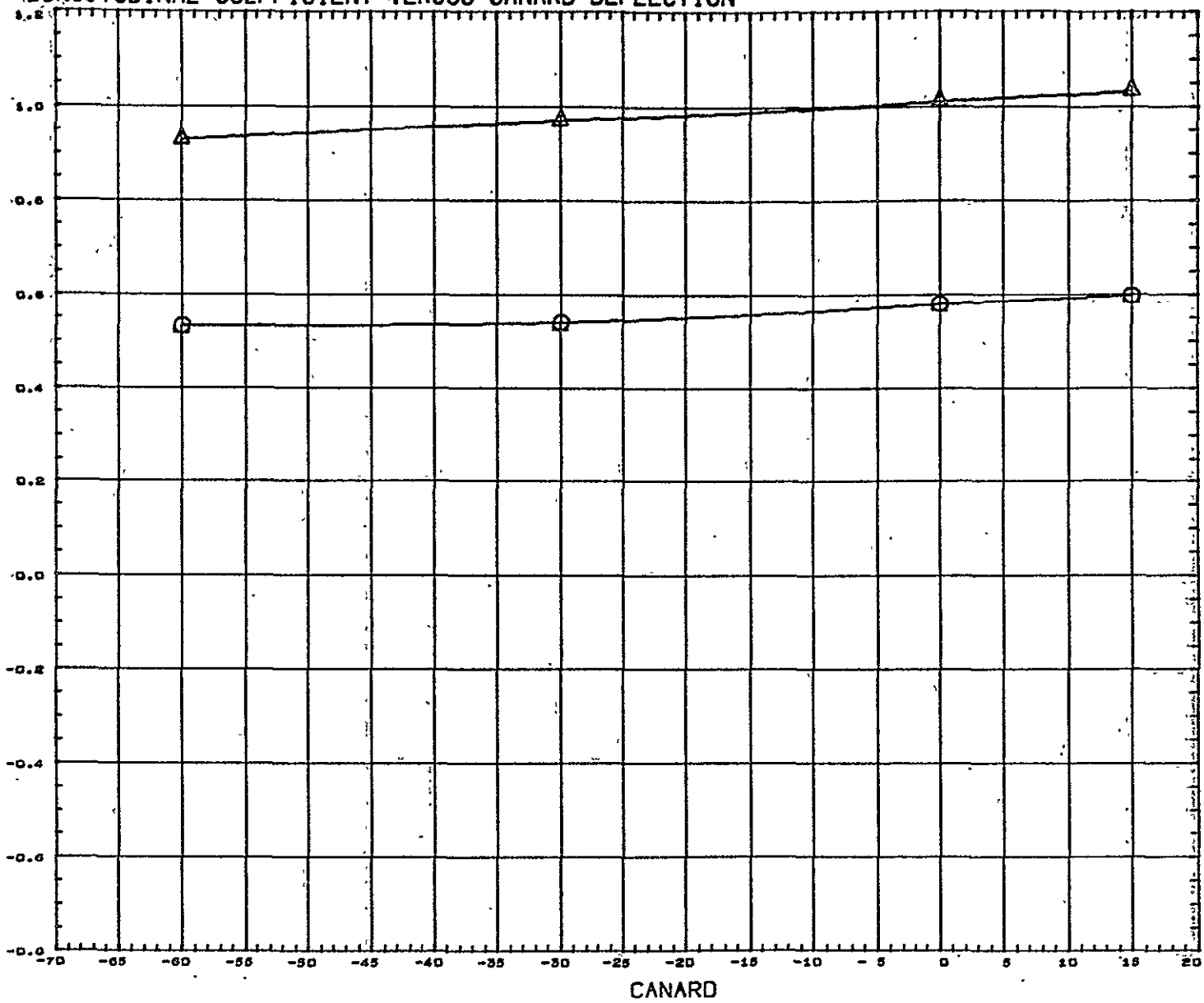
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.050	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVRBEI

DATA SOURCE

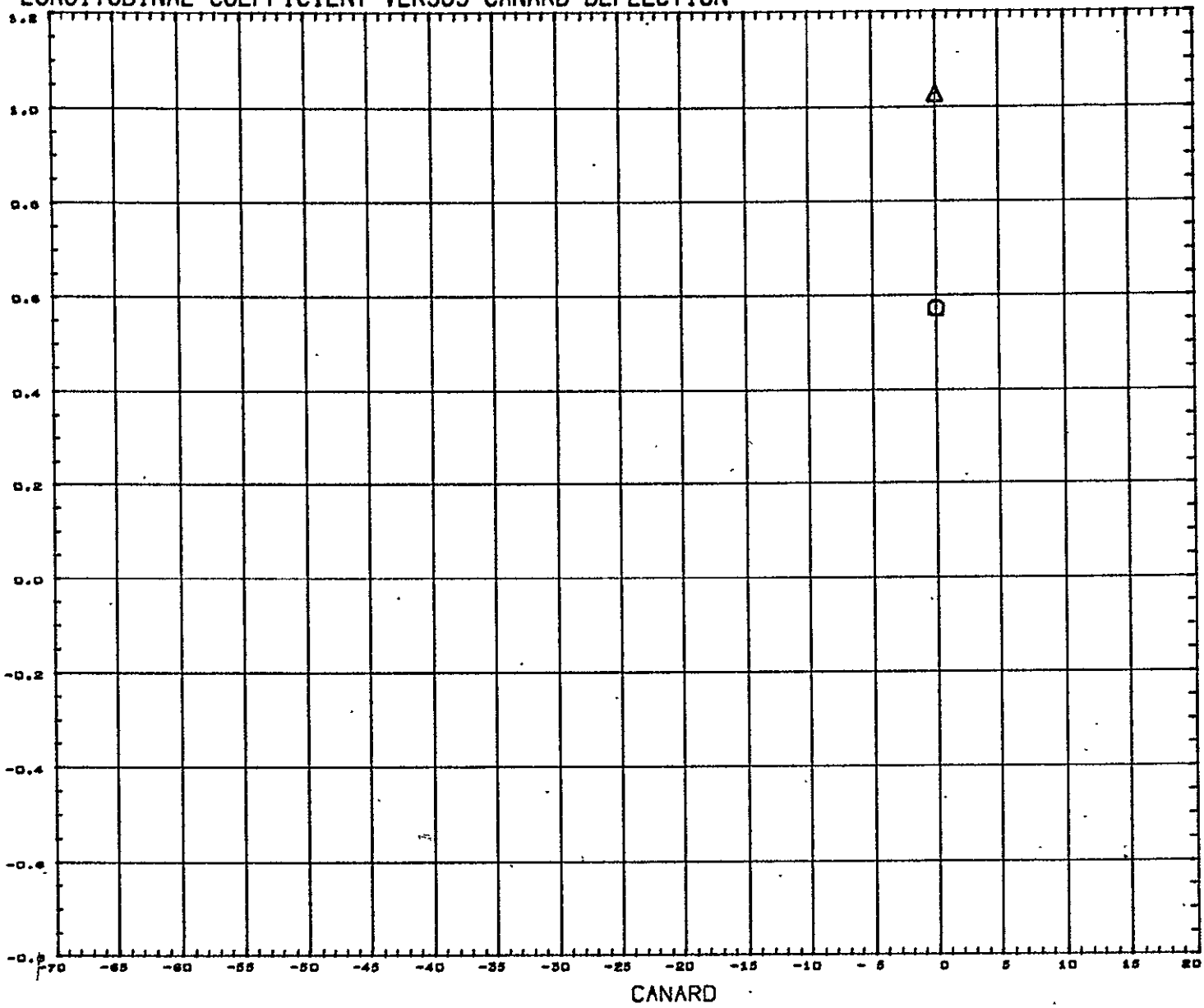
DATASET	CANARD
G28C47	- 60.000
G28C41	- 30.000
G28C44	15.000

DATASET	CANARD
G28C50	- 45.000
G28B31	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.100	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

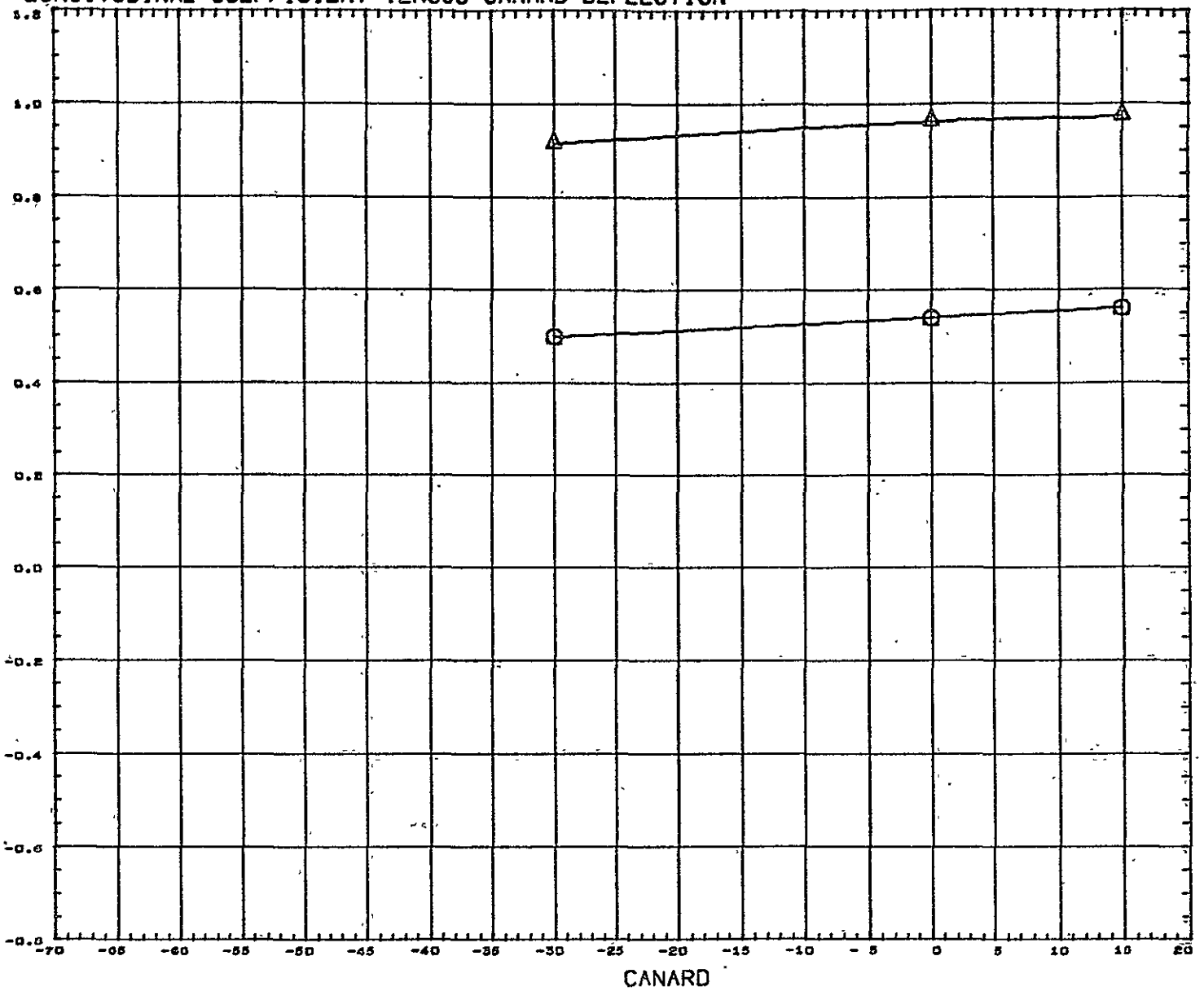
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

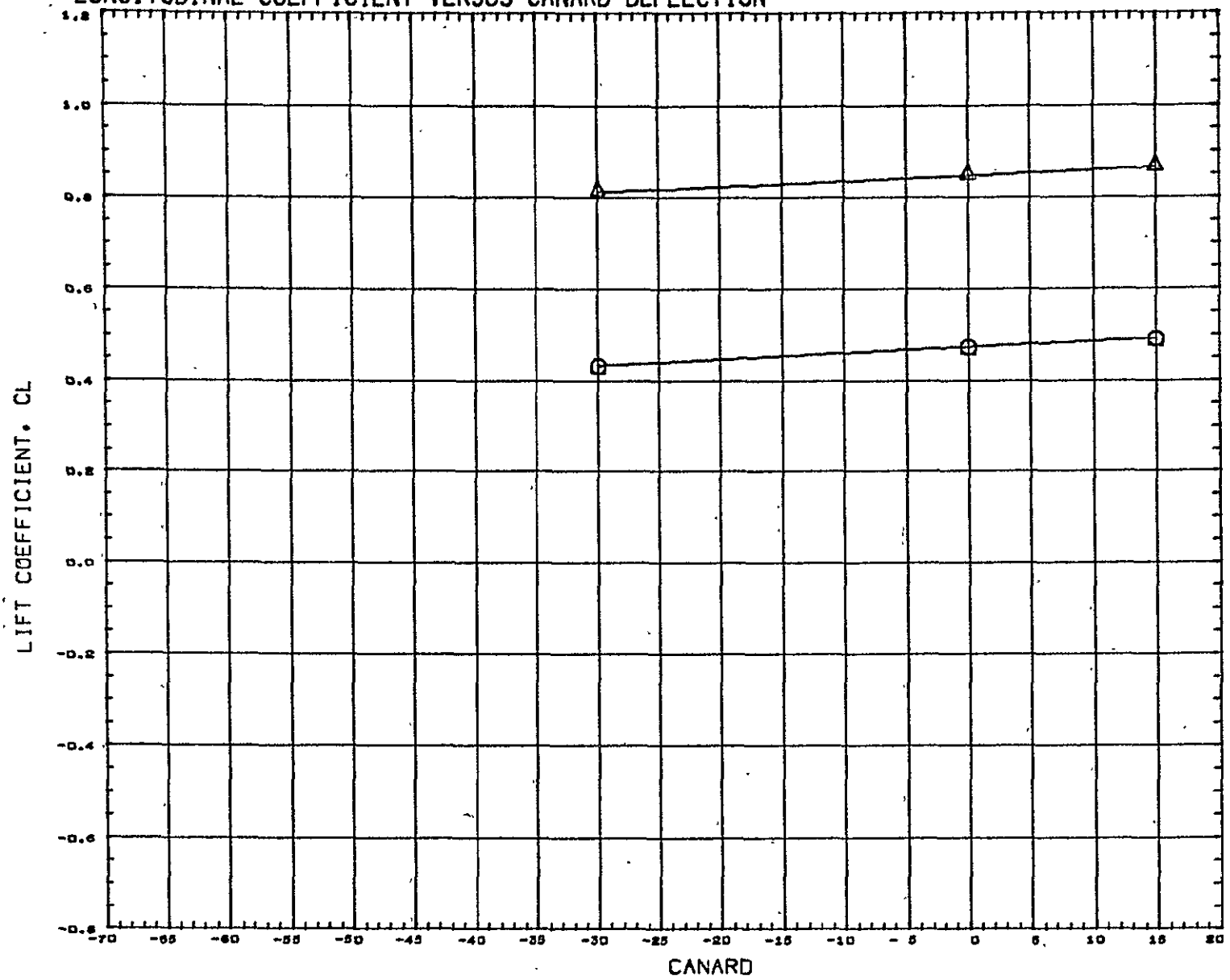
DATA SOURCE

DATASET	CANARD
G28C47	- 60.000
G28C41	- 30.000
G28C44	15.000
G28C50	- 45.000
G28B31	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.500	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

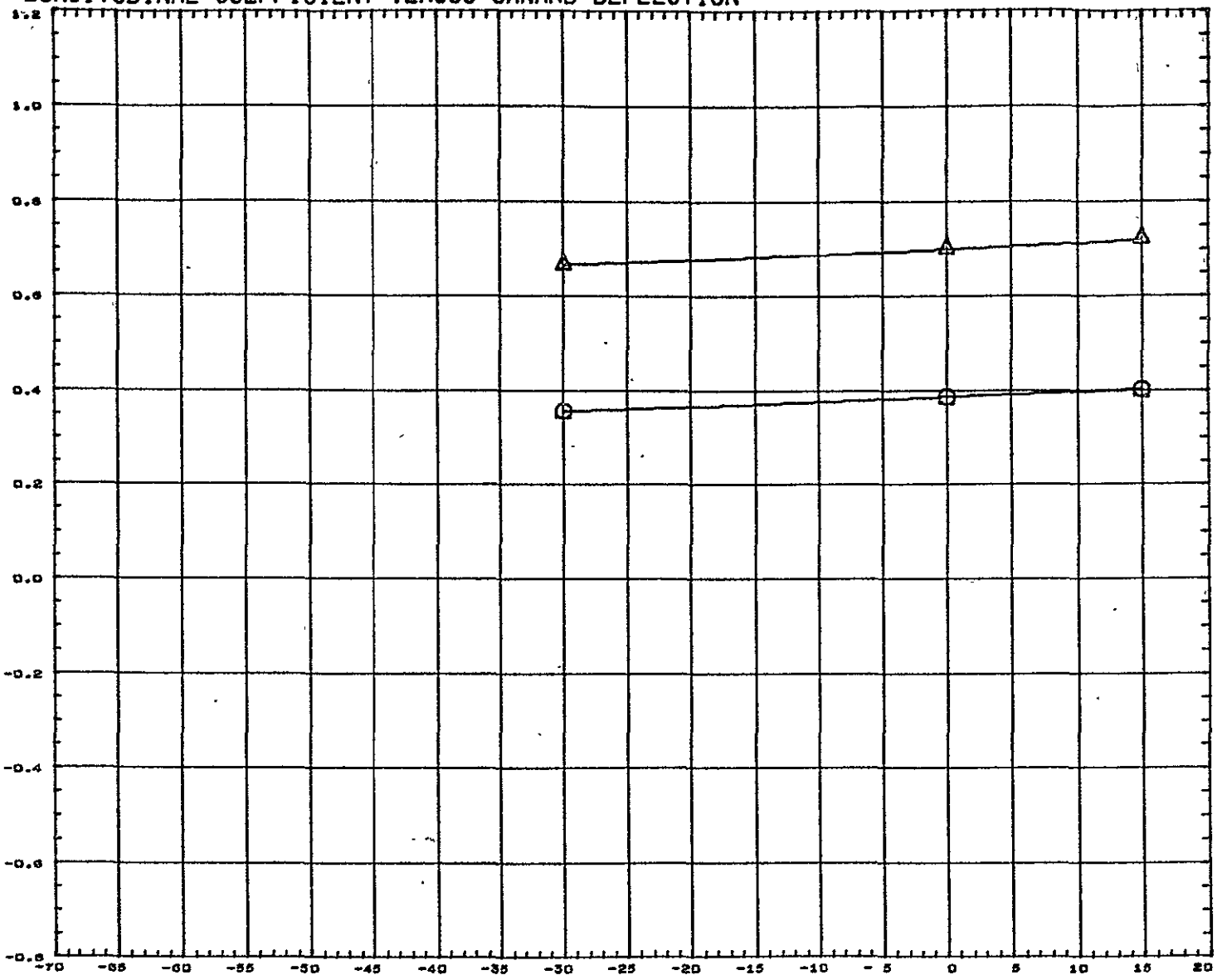
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR#EI

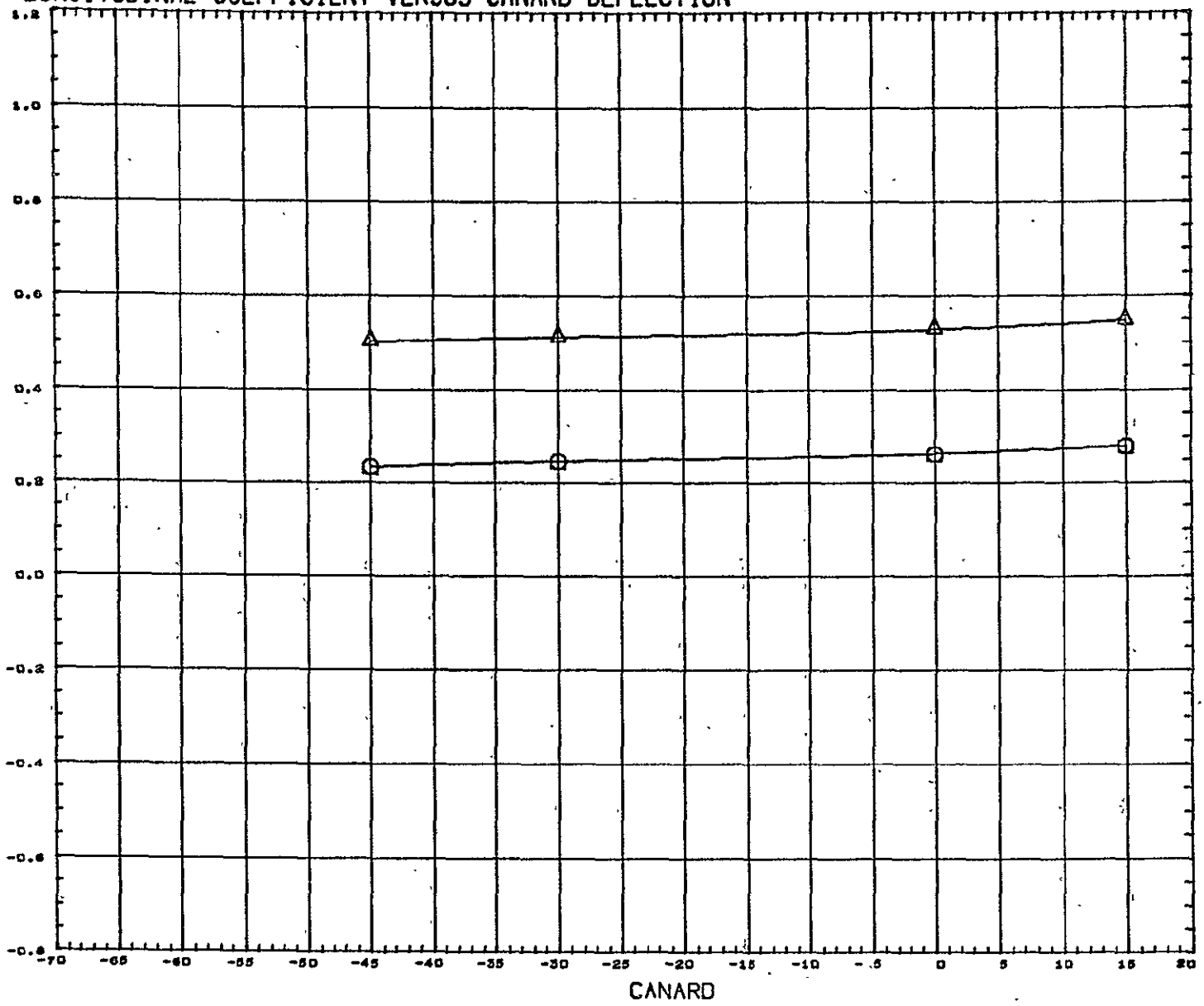
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR9EI

DATA SOURCE

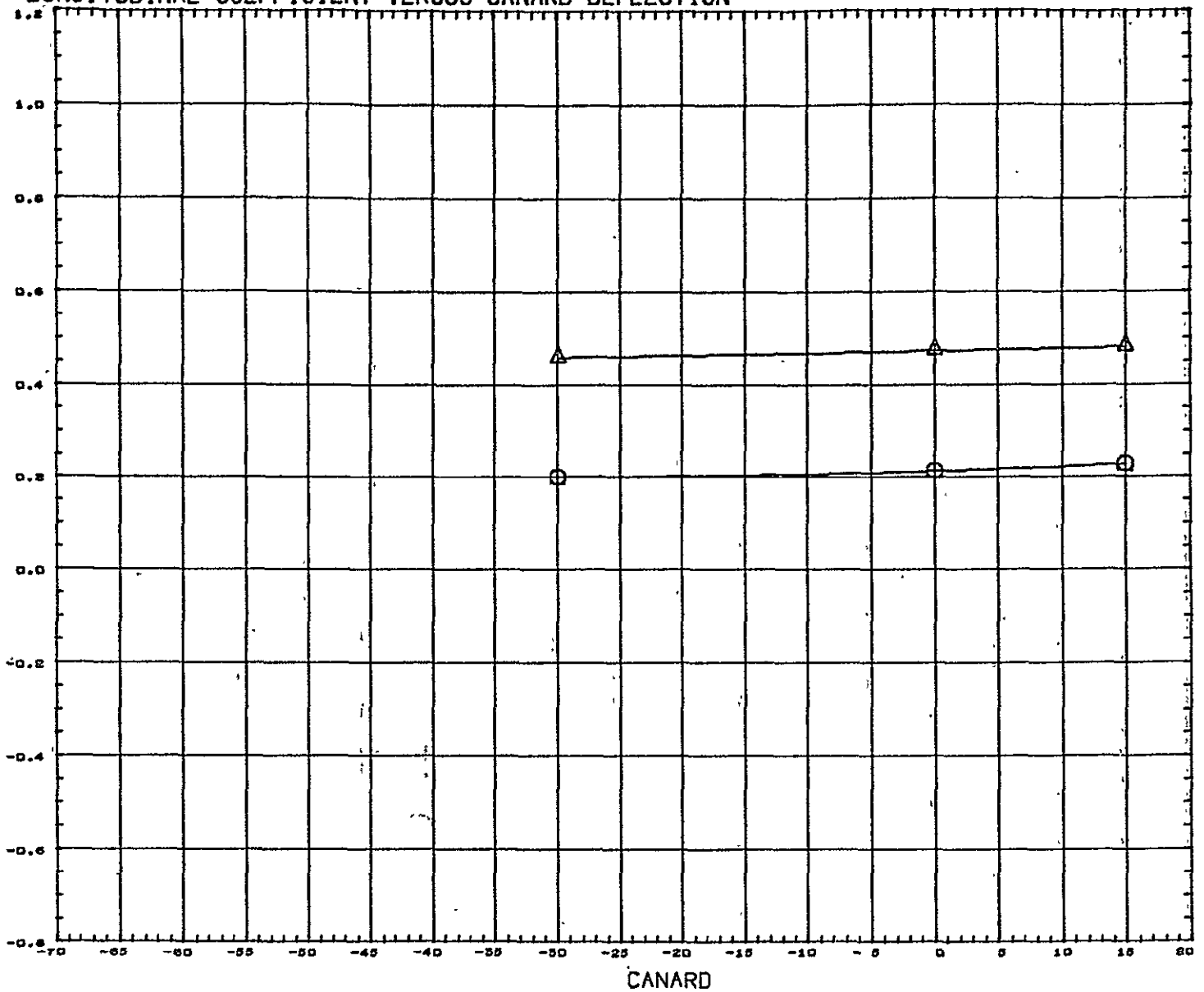
DATASET	CANARD
G28C47	- 60.000
G28C41	- 30.000
G28C44	15.000

DATASET	CANARD
G28C50	- 45.000
G28831	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

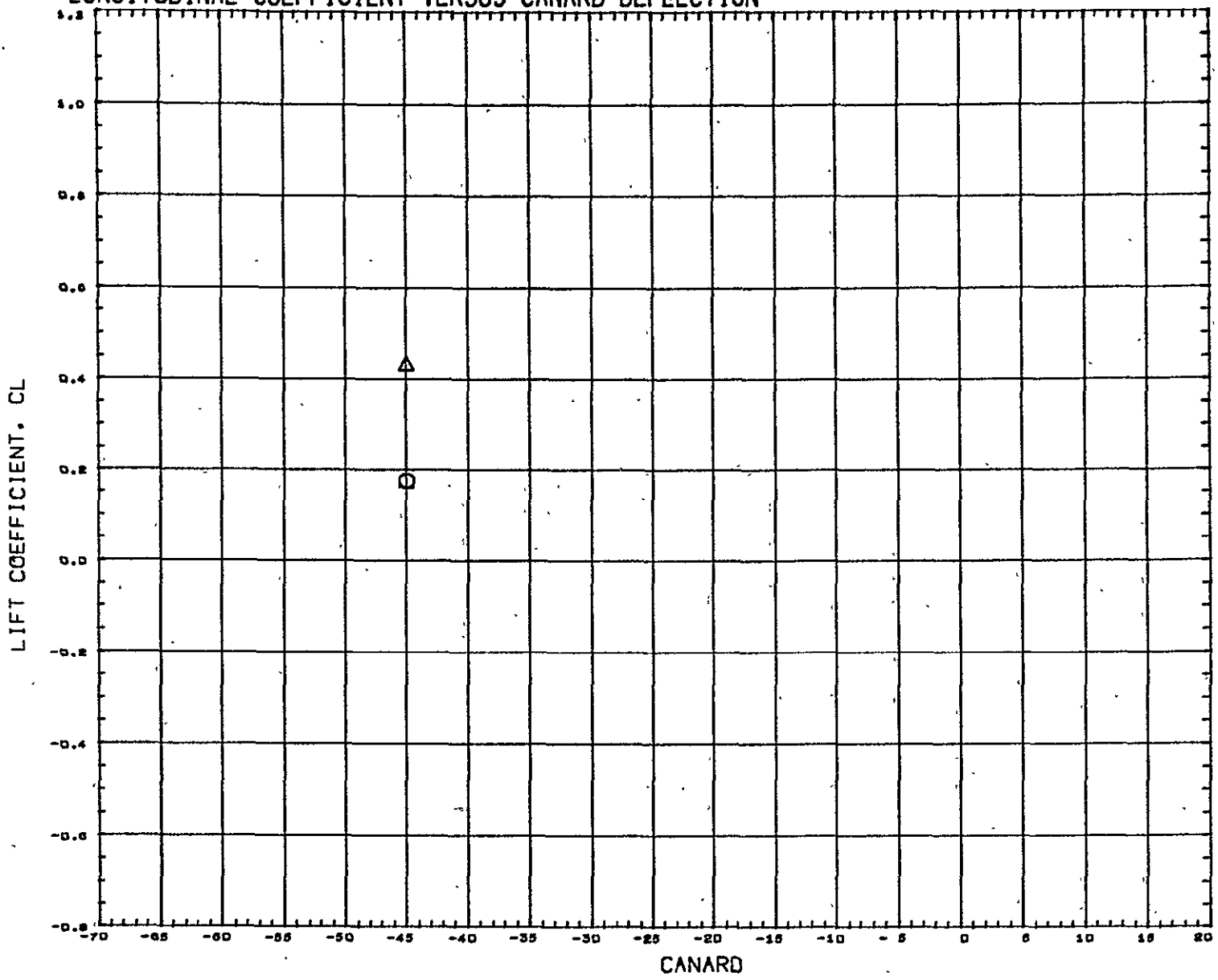
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.500	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

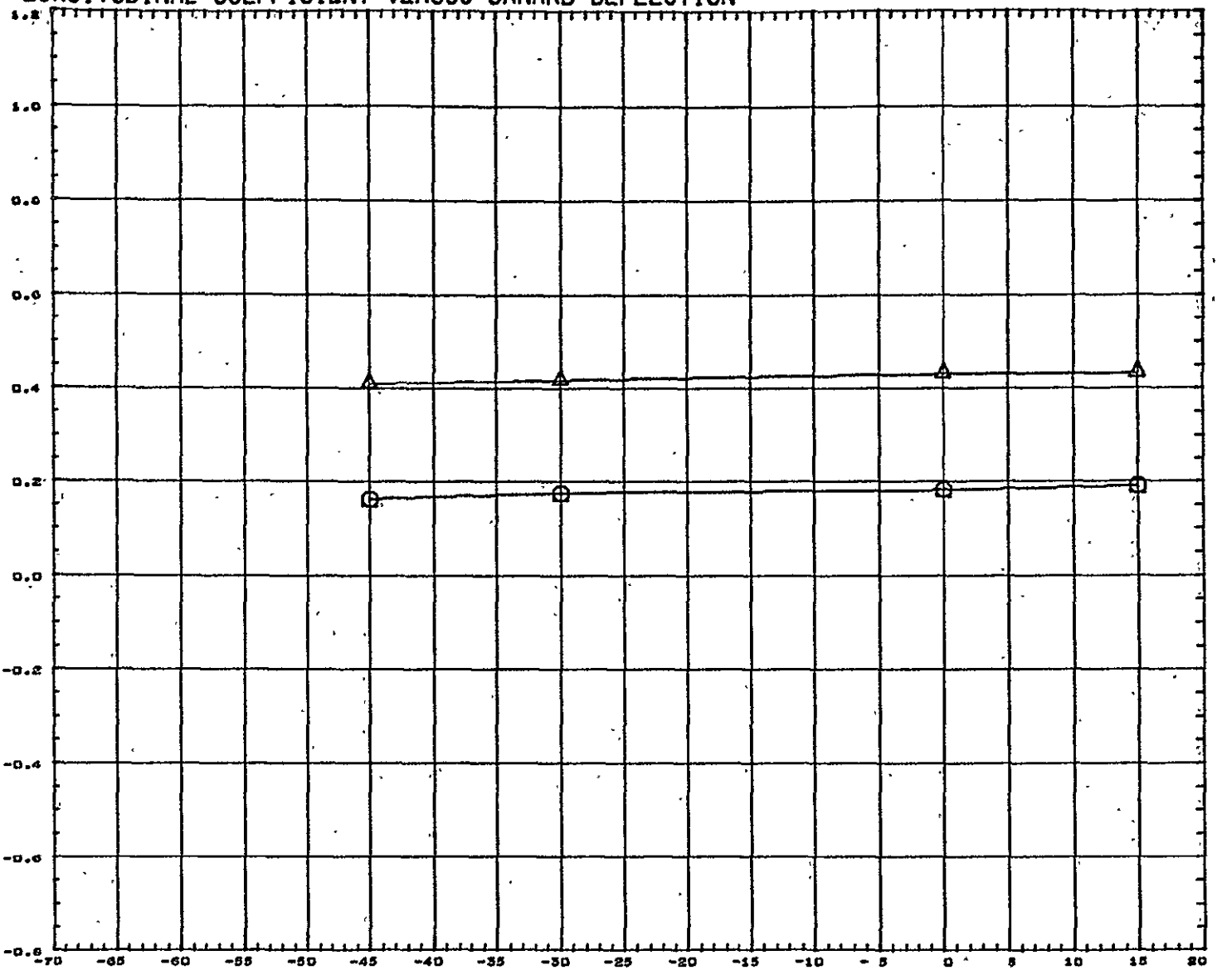
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE : MVR*E1

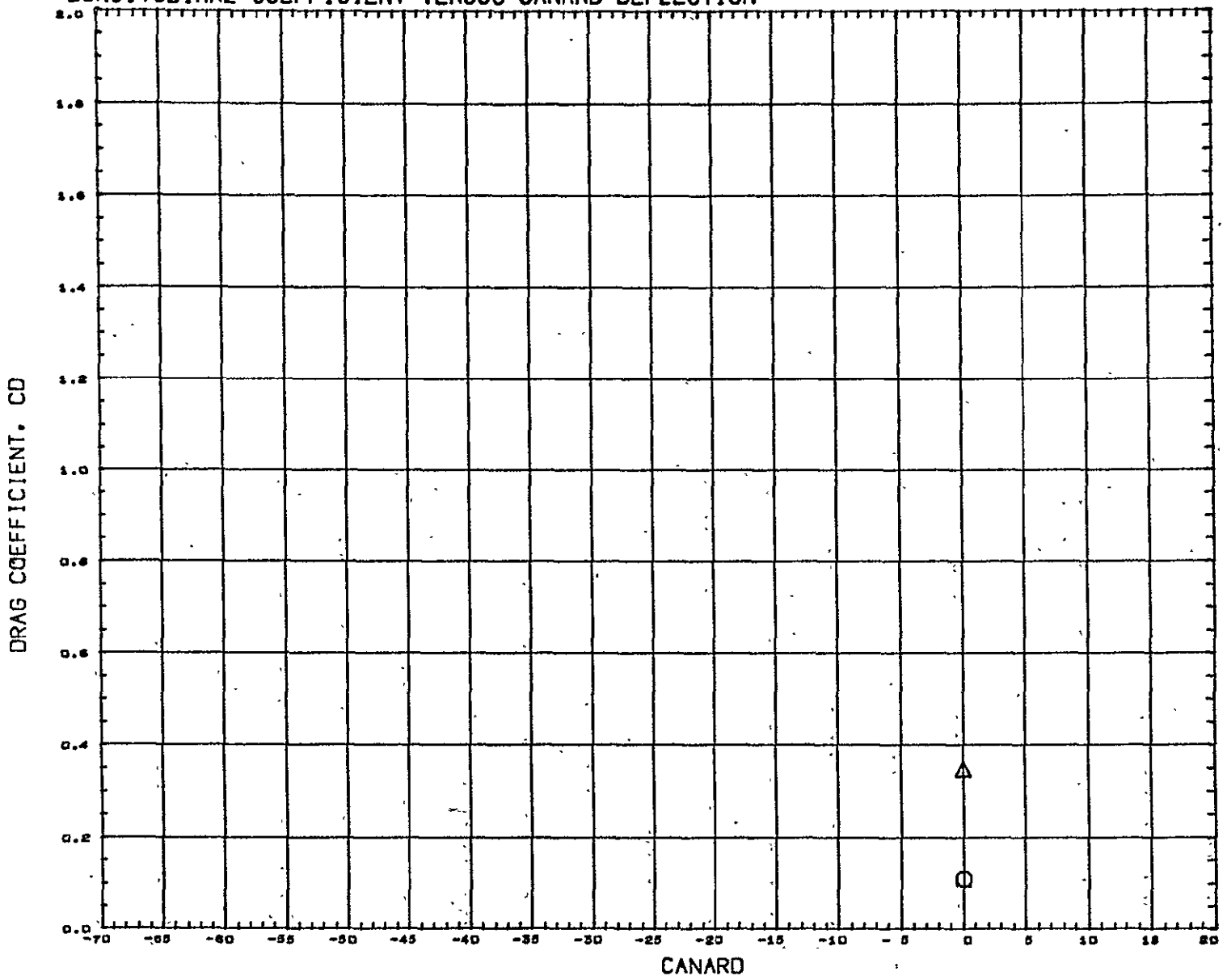
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

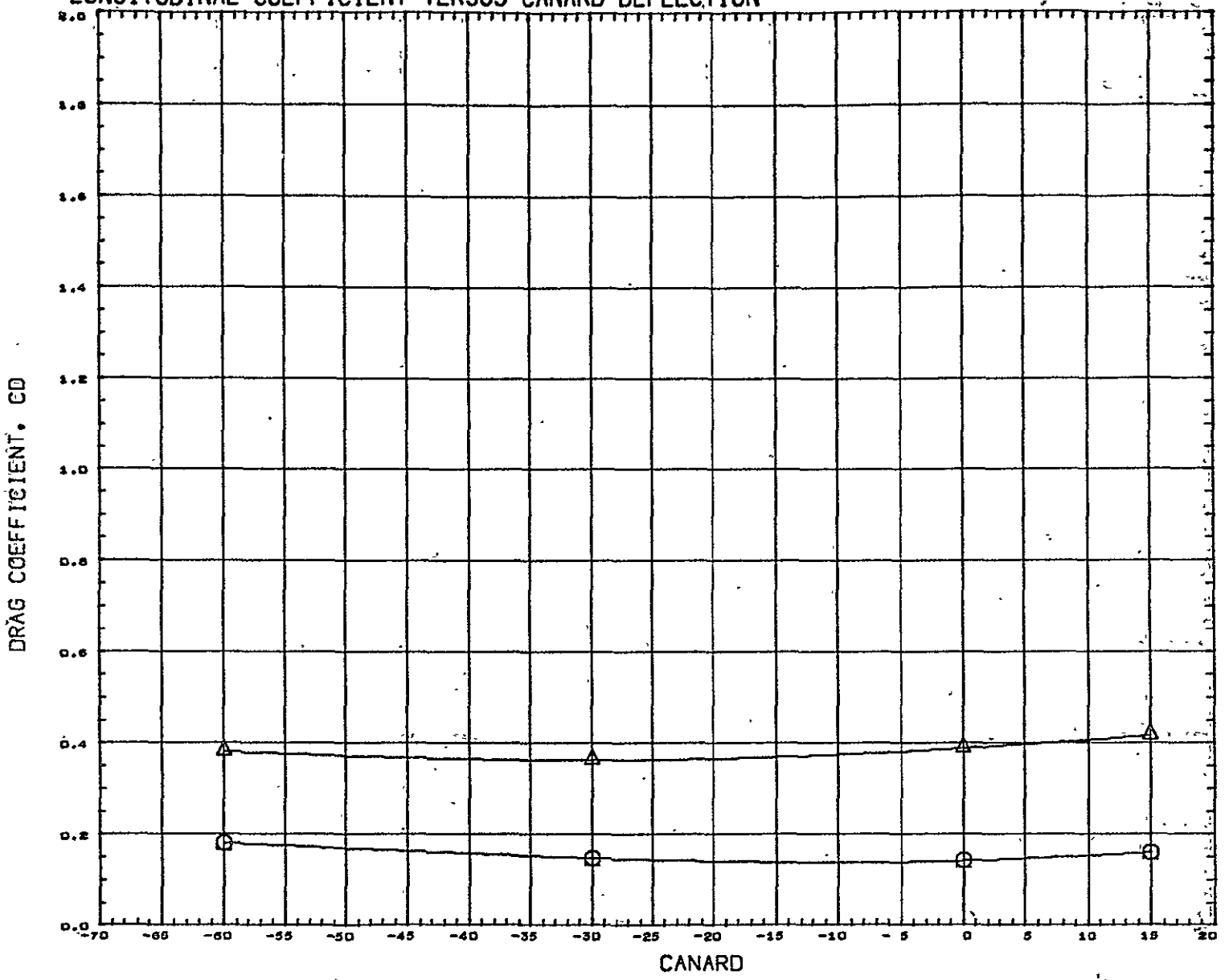
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	0.600	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	G28C47	- 60.000	G28C50	- 45.000	LREF	3.0950	IN.
		DCL	- 60.000	DCR	- 60.000	G28C41	- 30.000	G28B31	0.000	BREF	6.0990	IN.
		ELEVON	0.000	AILRON	0.000	G28C44	15.000			XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
		DATA HIST. CODE		HVR*E1						SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

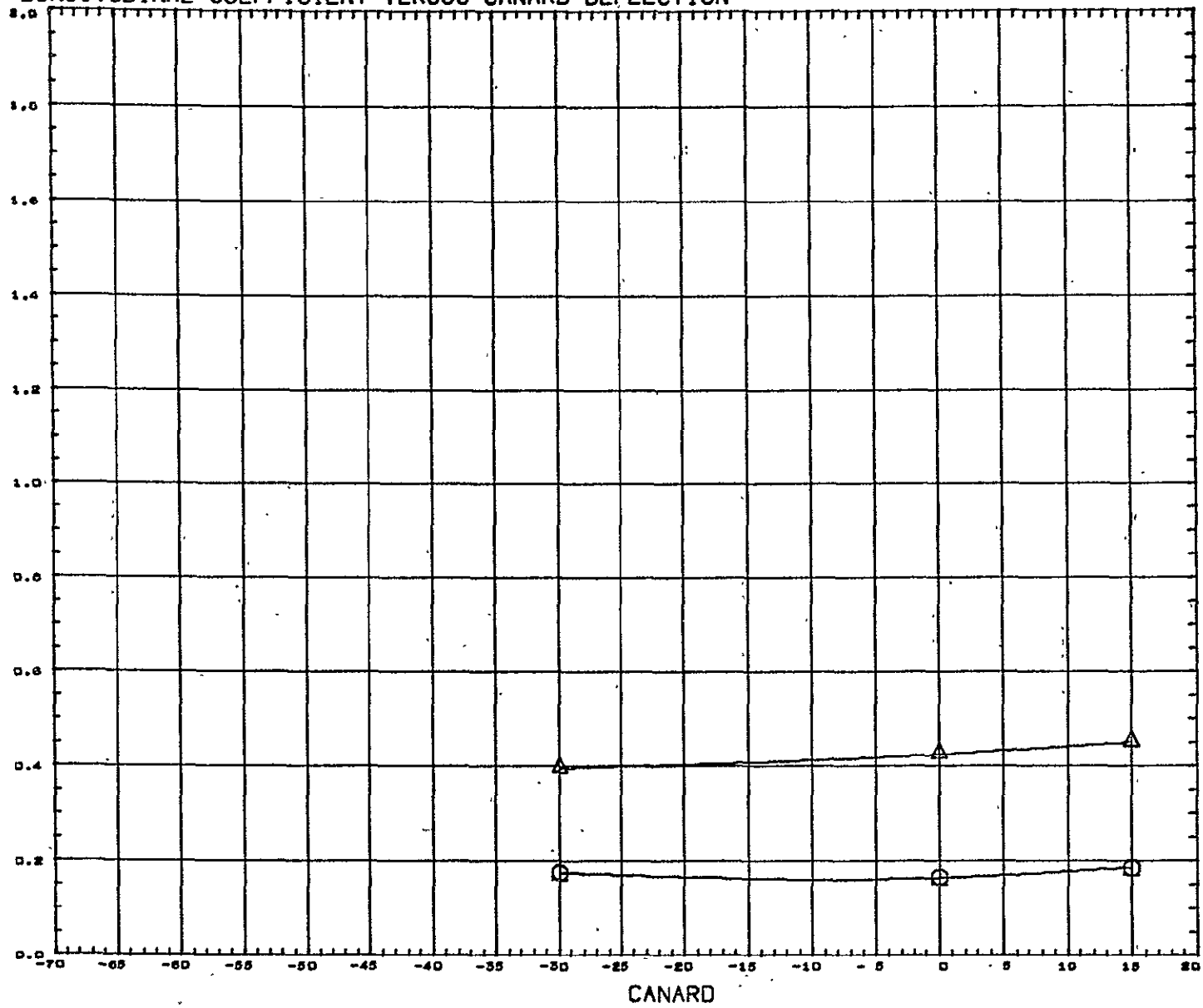
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
SREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.950	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

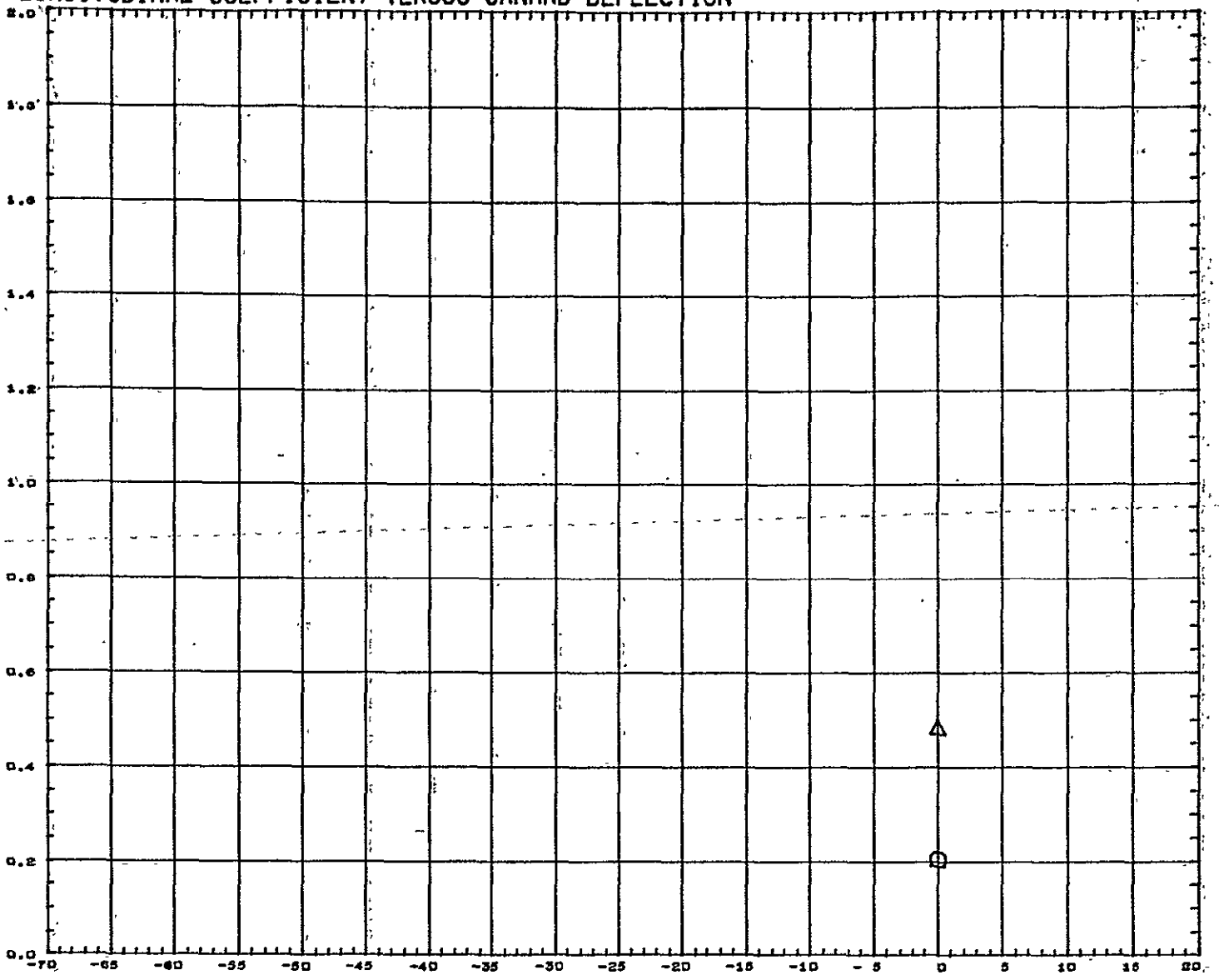
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28031	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	5.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
△	10.000
○	20.000

PARAMETRIC VALUES

MACH	1.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE : HVR*EI

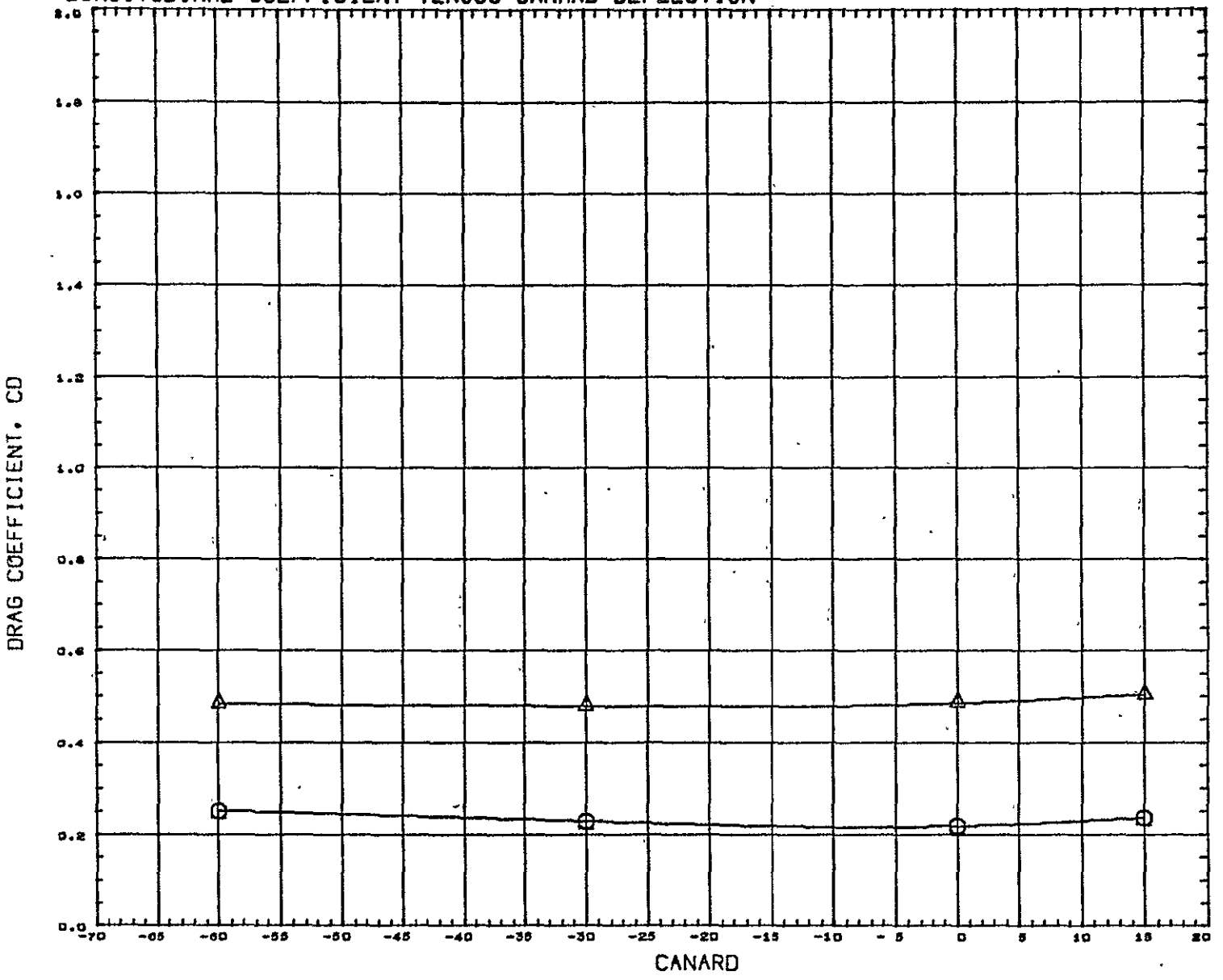
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.050	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

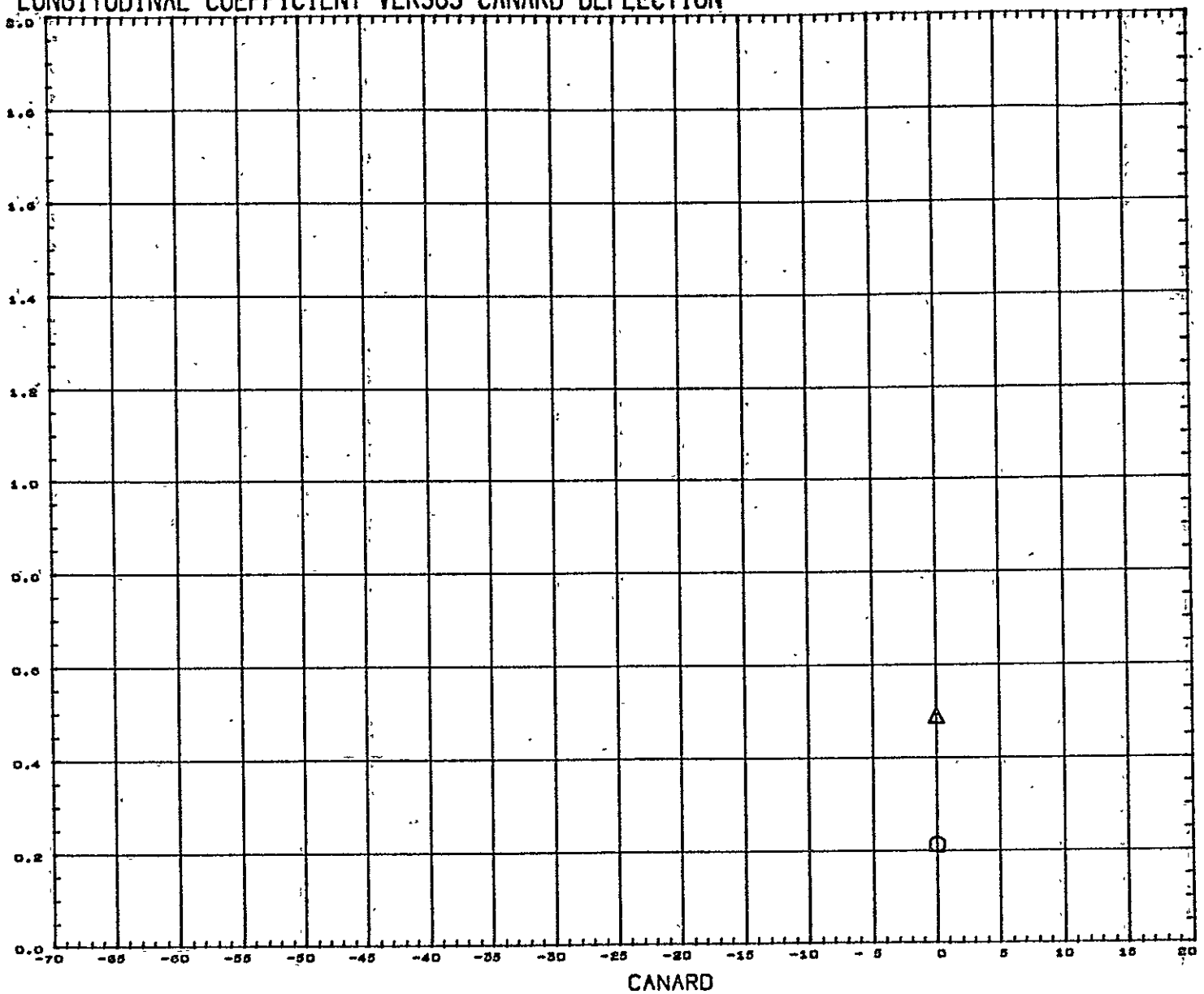
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.100	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR4EI

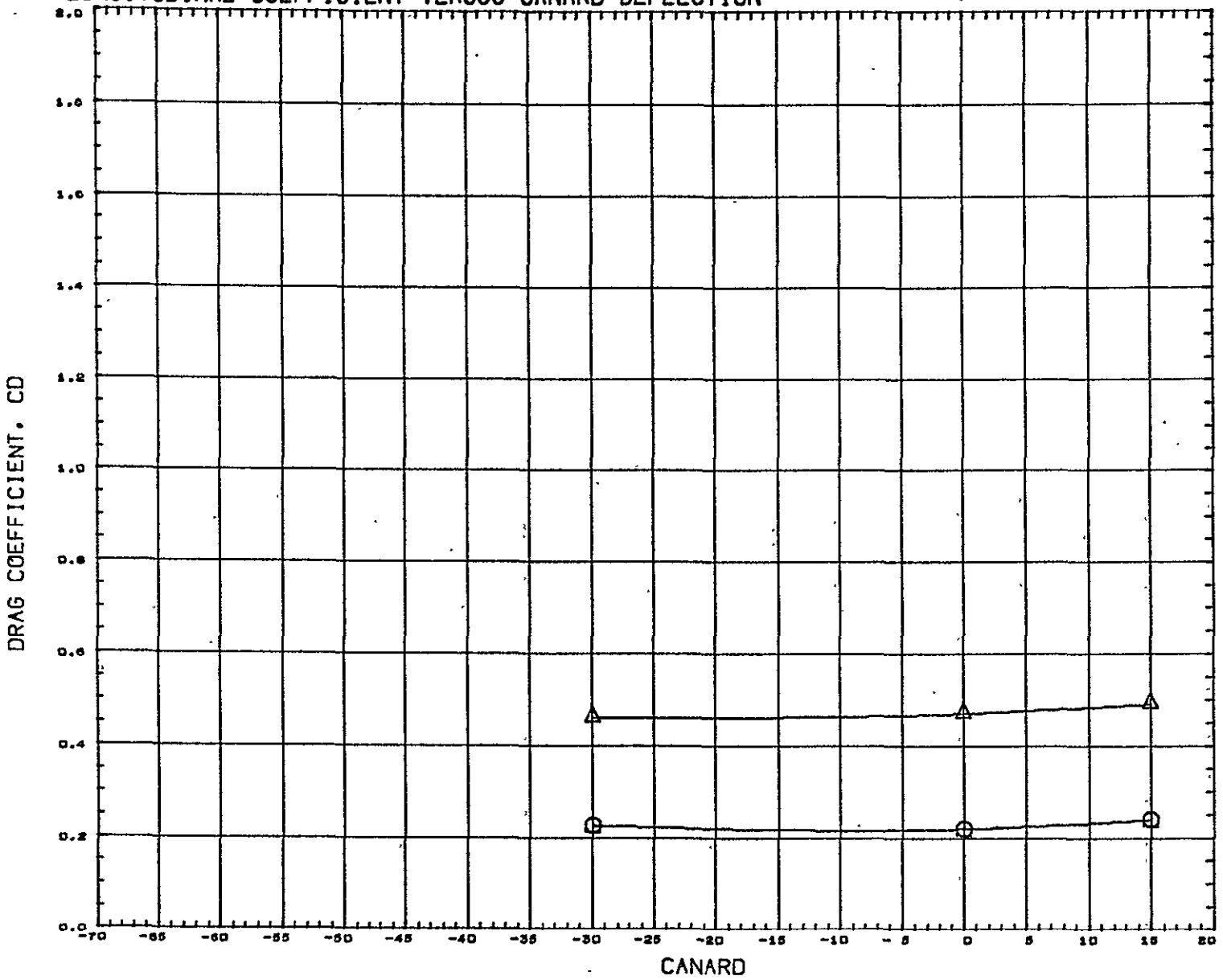
DATA SOURCE

DATASET	CANARD
G28C47	- 60.000
G28C41	- 30.000
G28C44	15.000
G28C50	- 45.000
G28B31	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

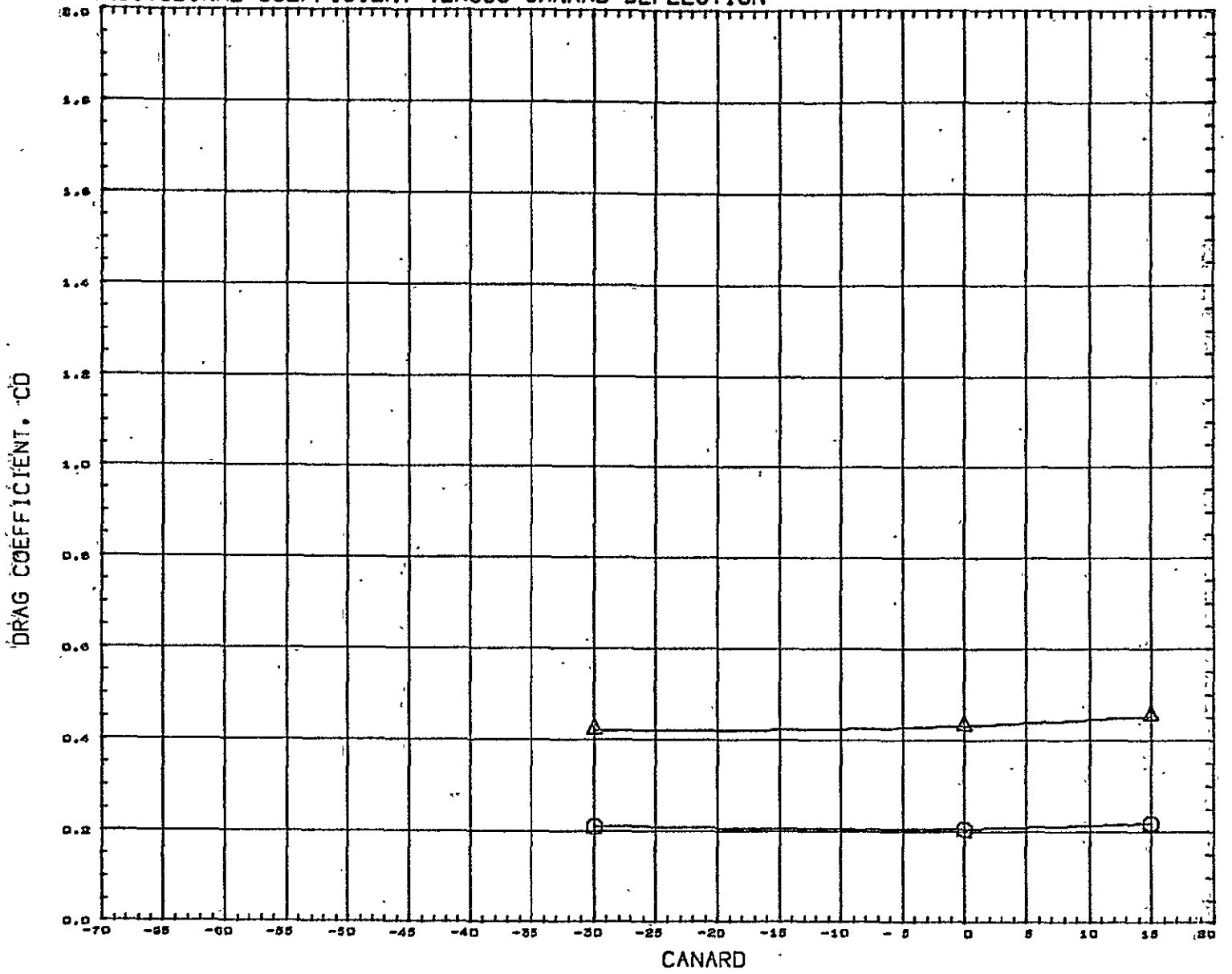
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.500	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

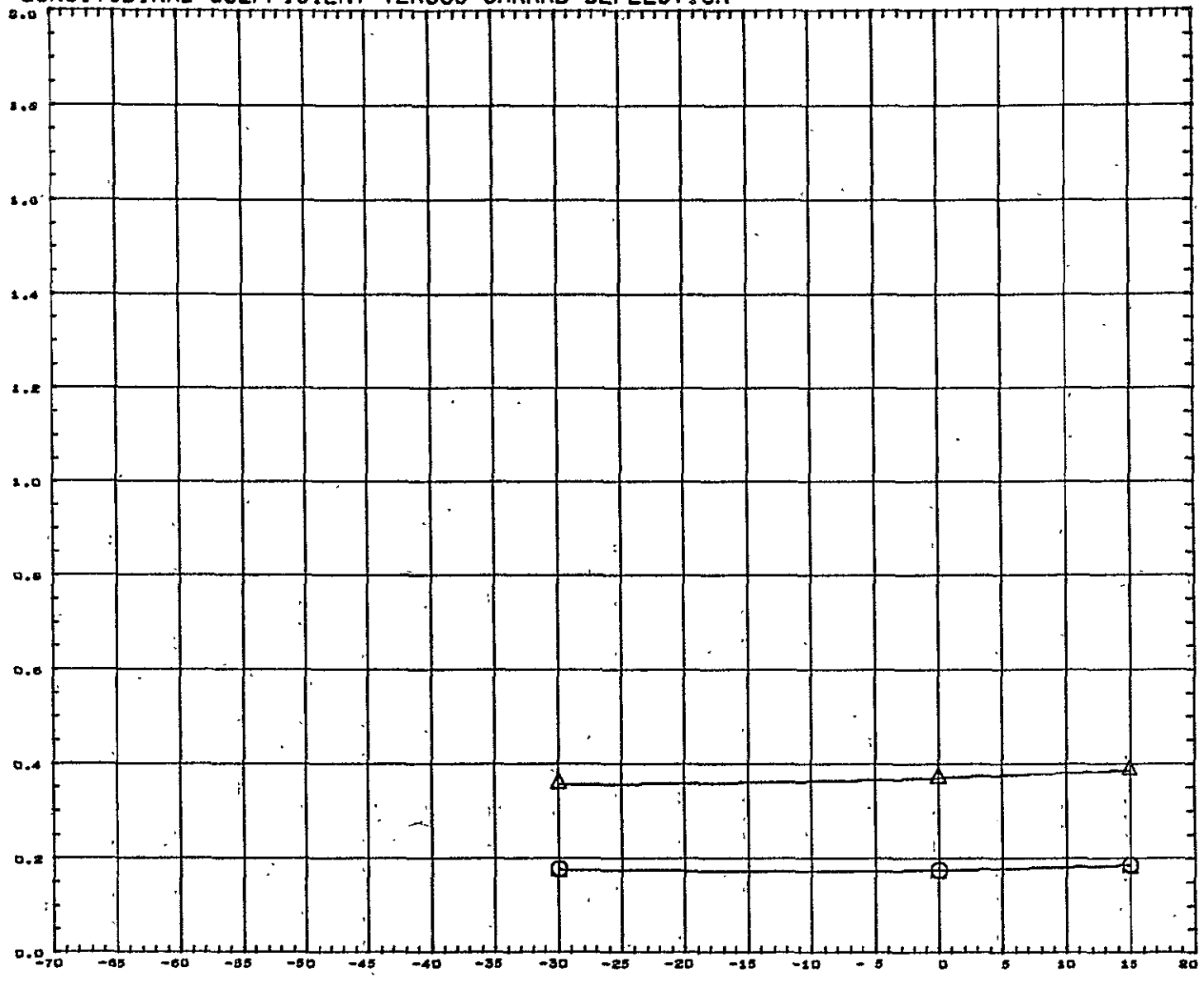
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR#E1

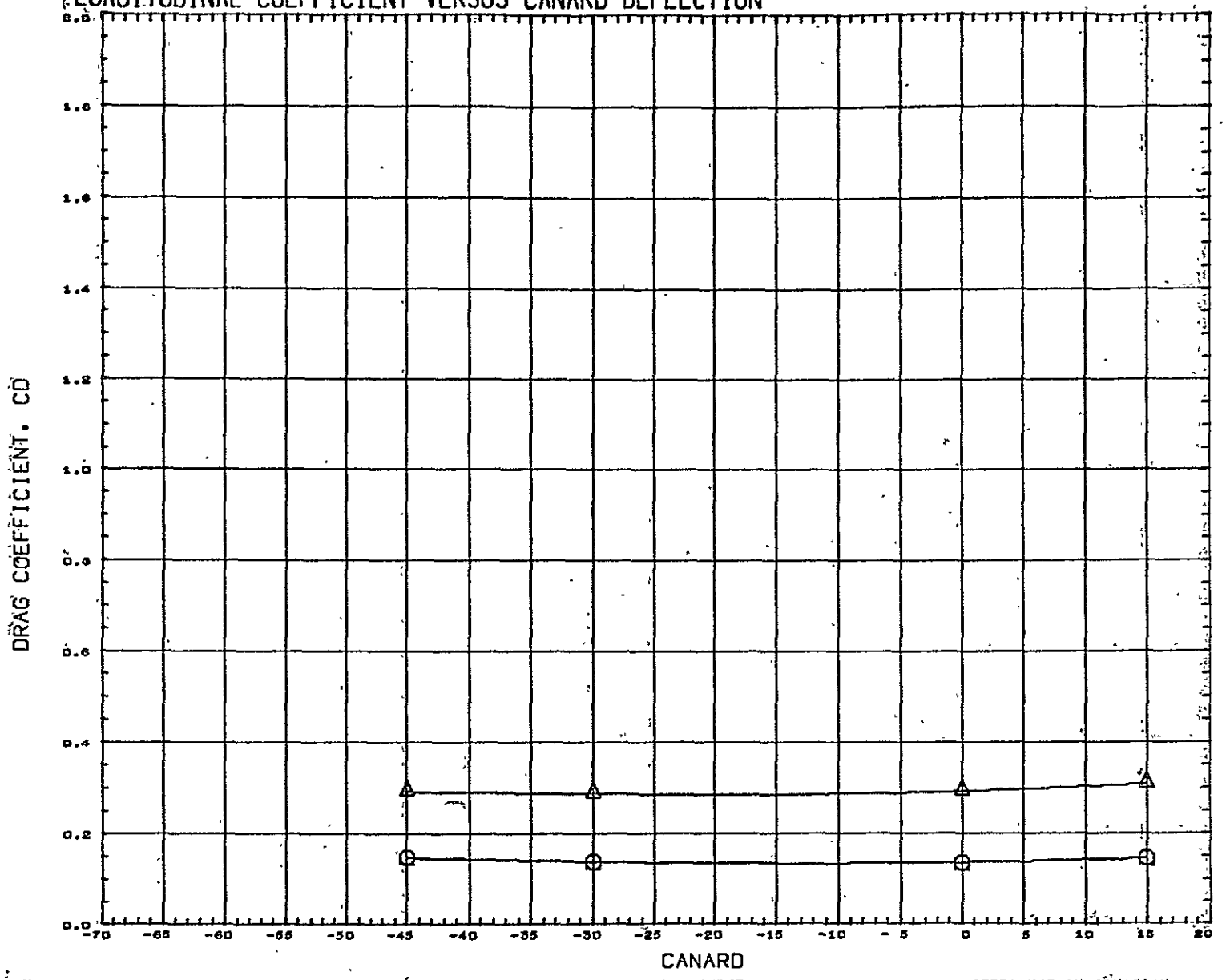
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0990	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
△	10.000
○	20.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

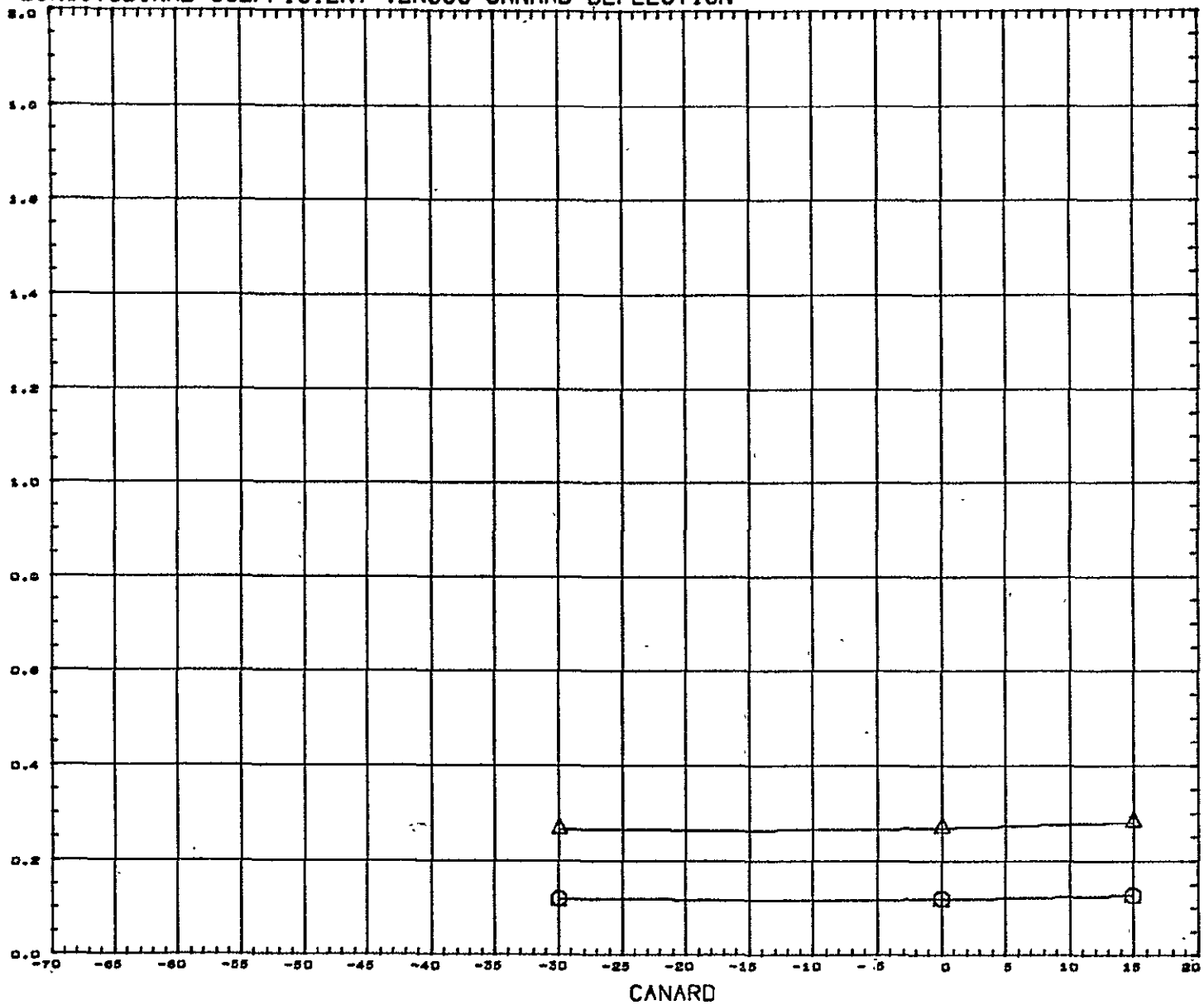
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C5D	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE

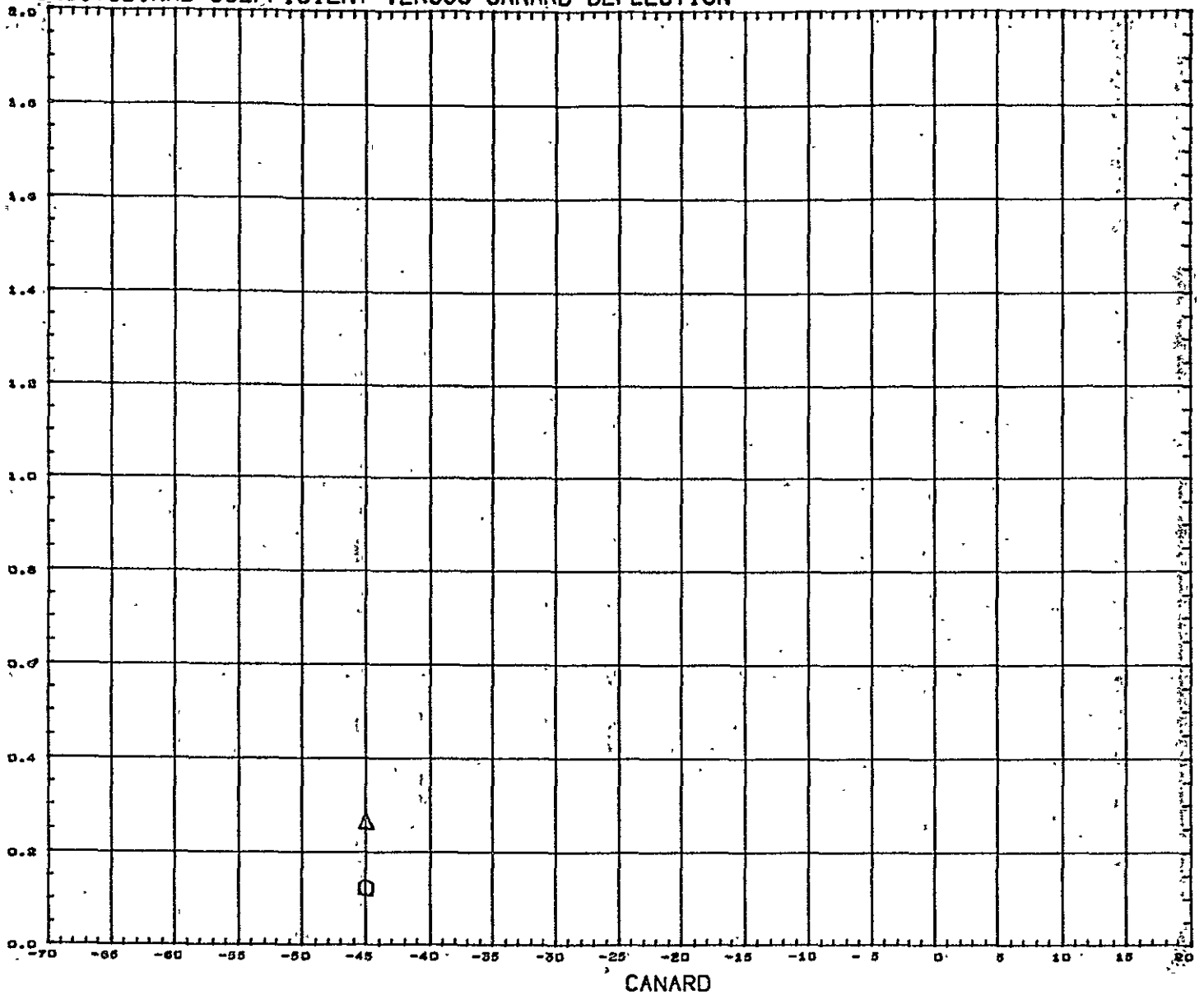
DATASET	CANARD
G28C47	- 60.000
G28C41	- 30.000
G28C44	15.000

DATASET	CANARD
G28C50	- 45.000
G28B31	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.500	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

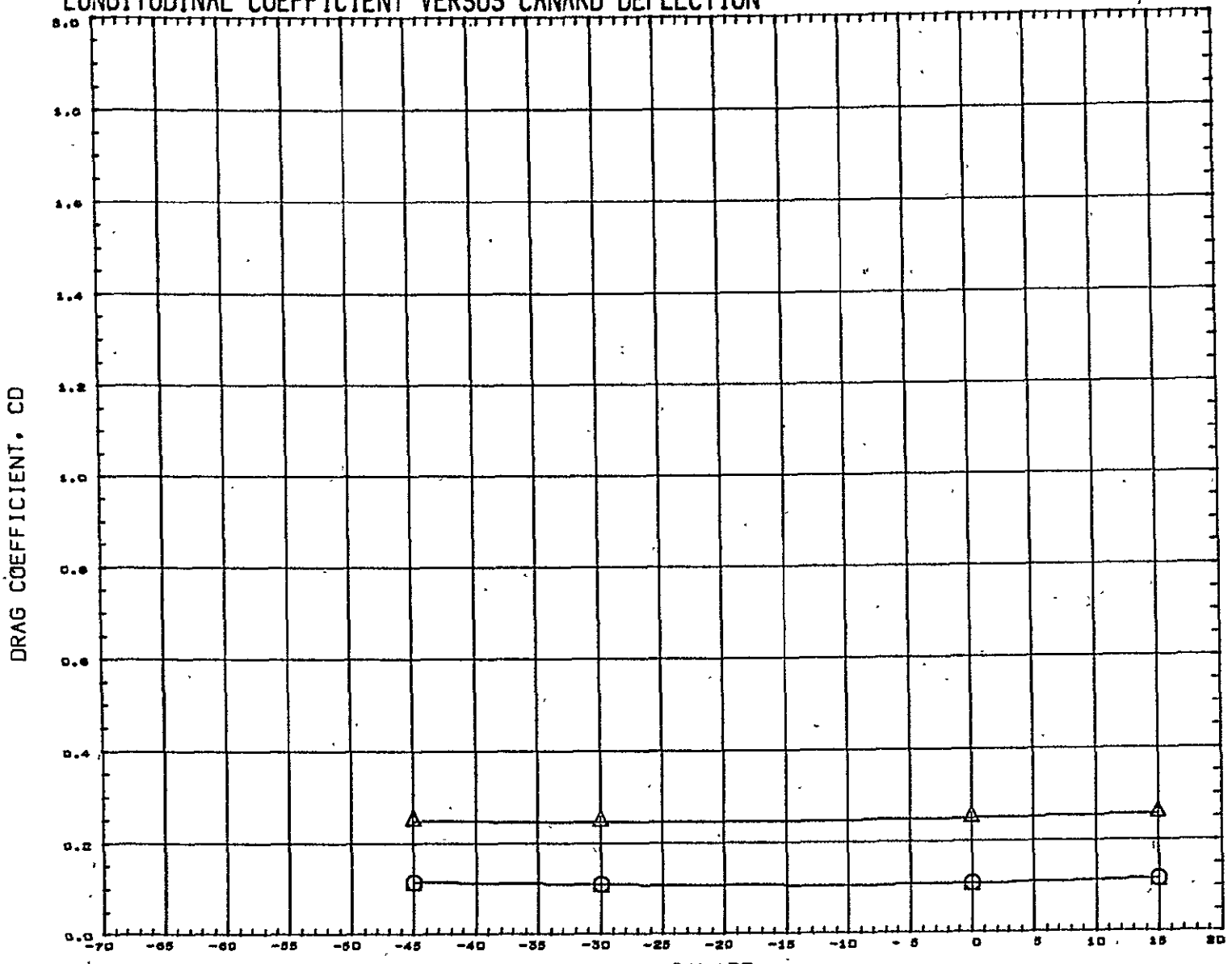
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

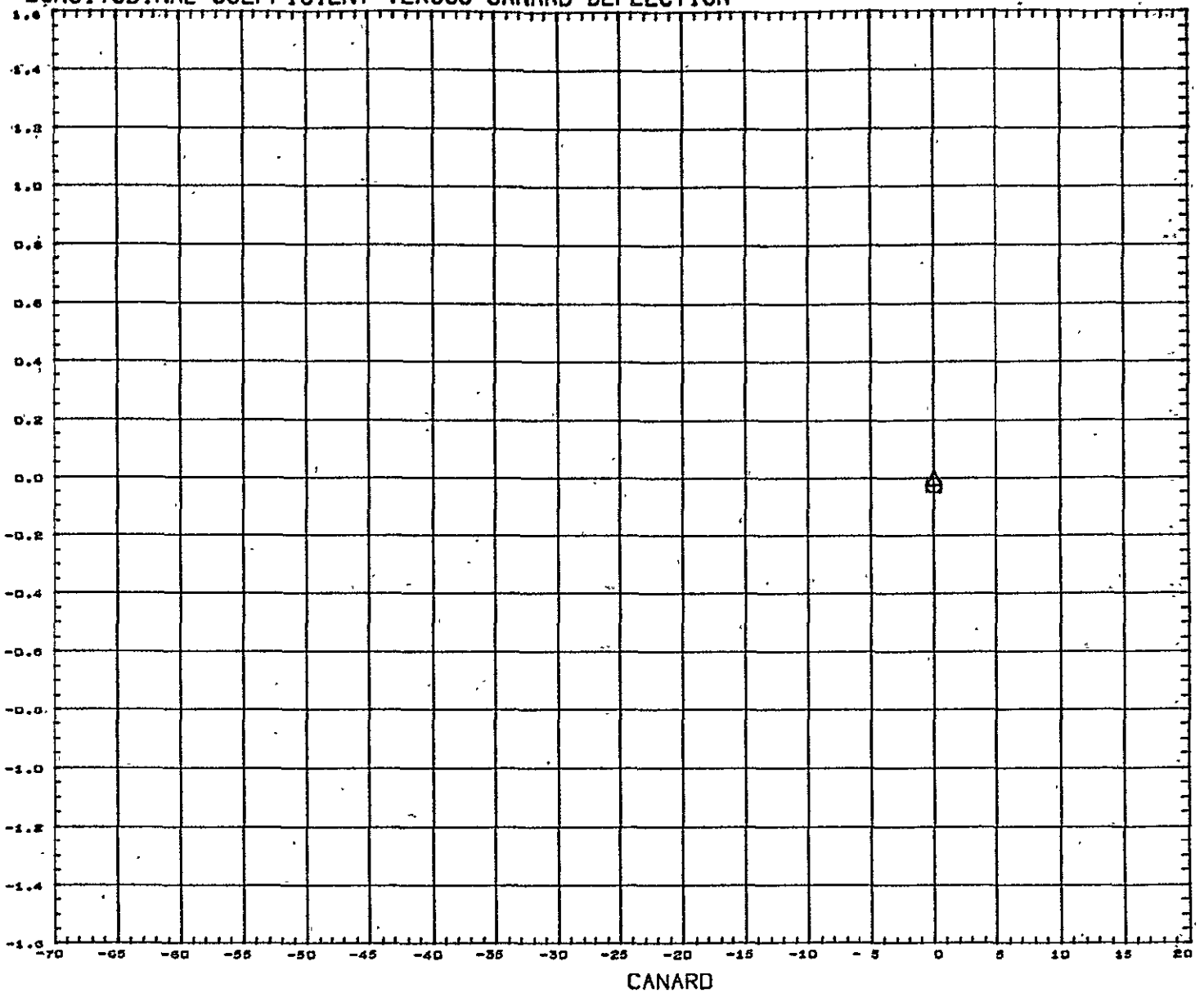
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.600	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

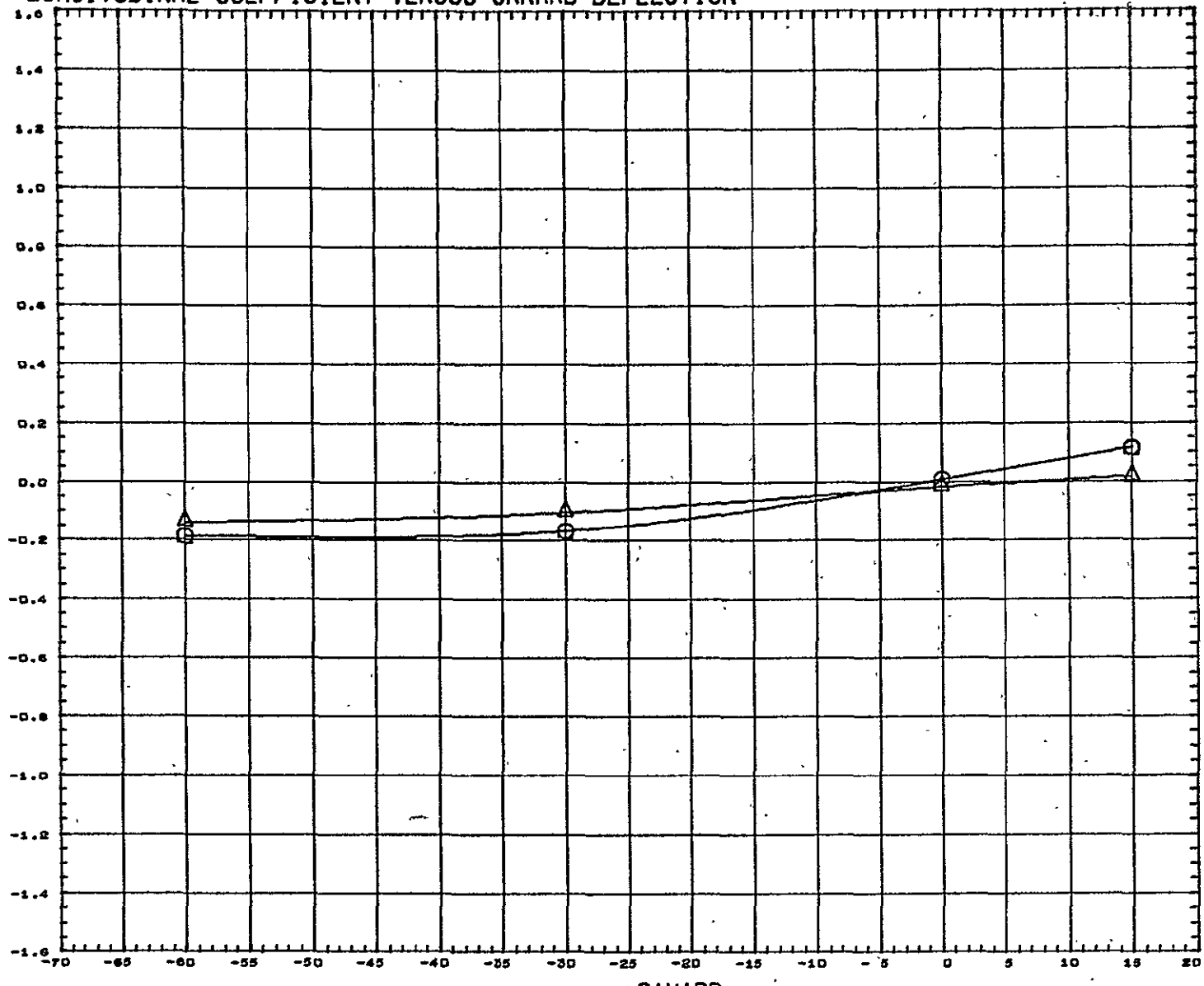
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

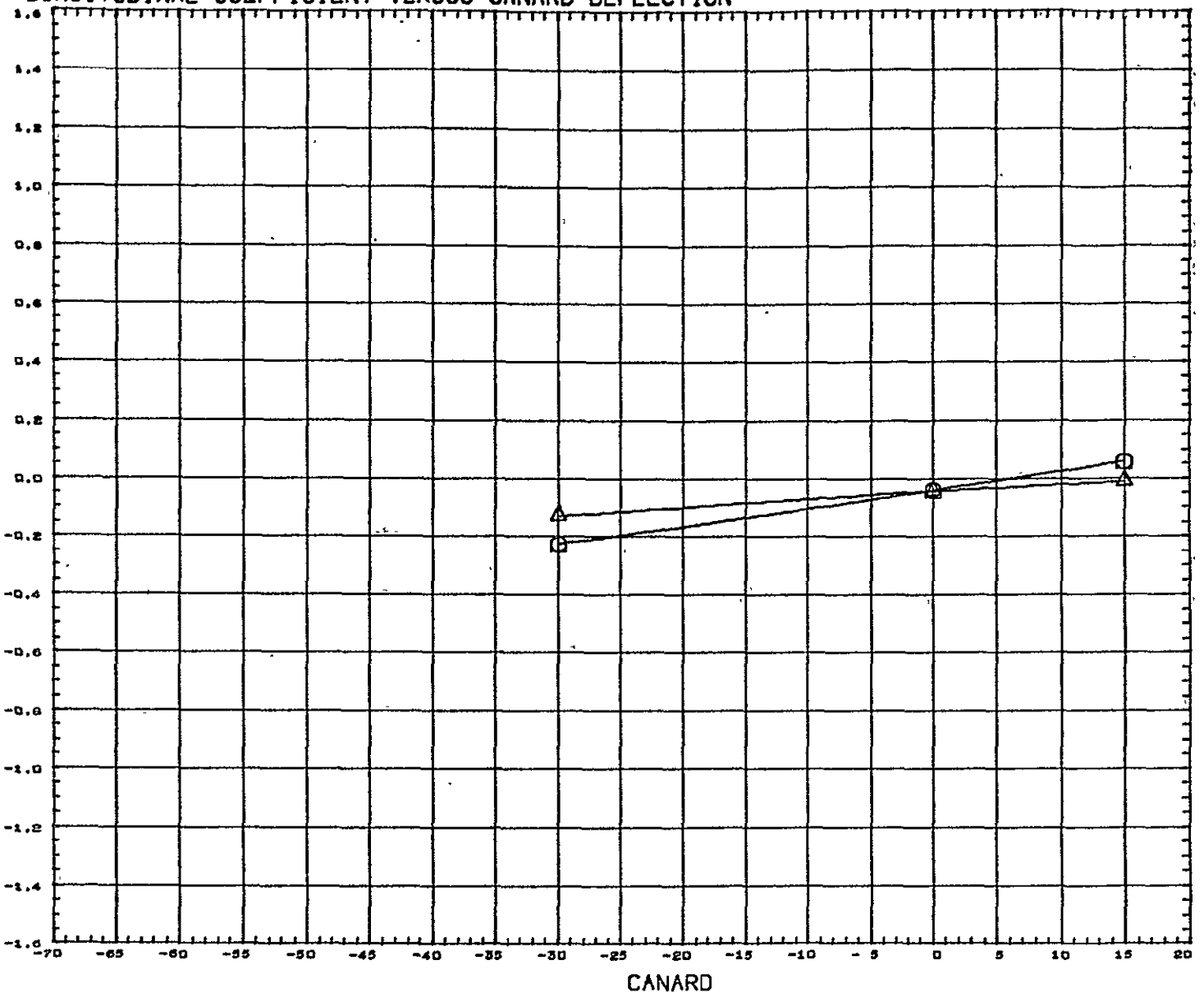
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.950	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

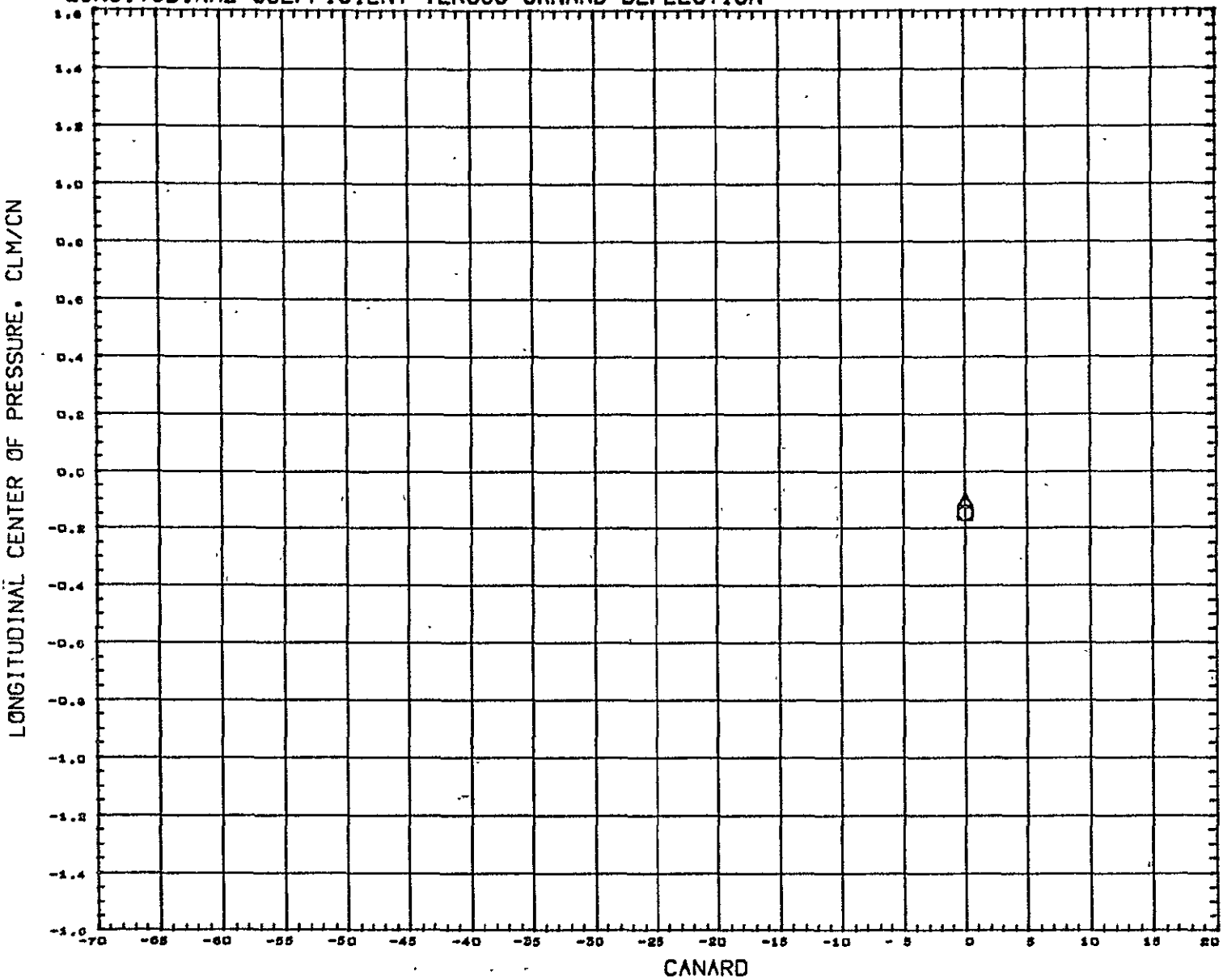
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR#E1

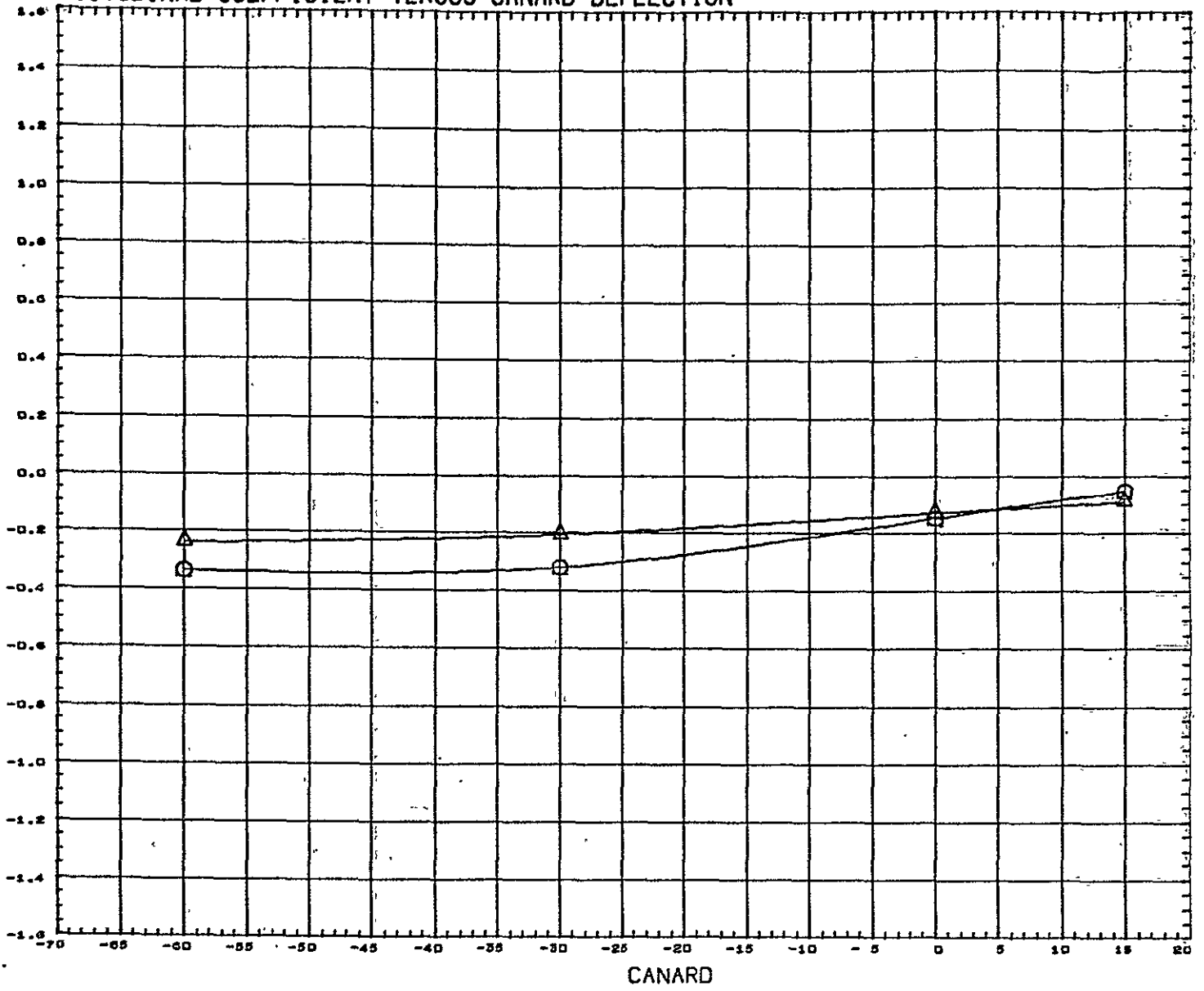
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.050	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

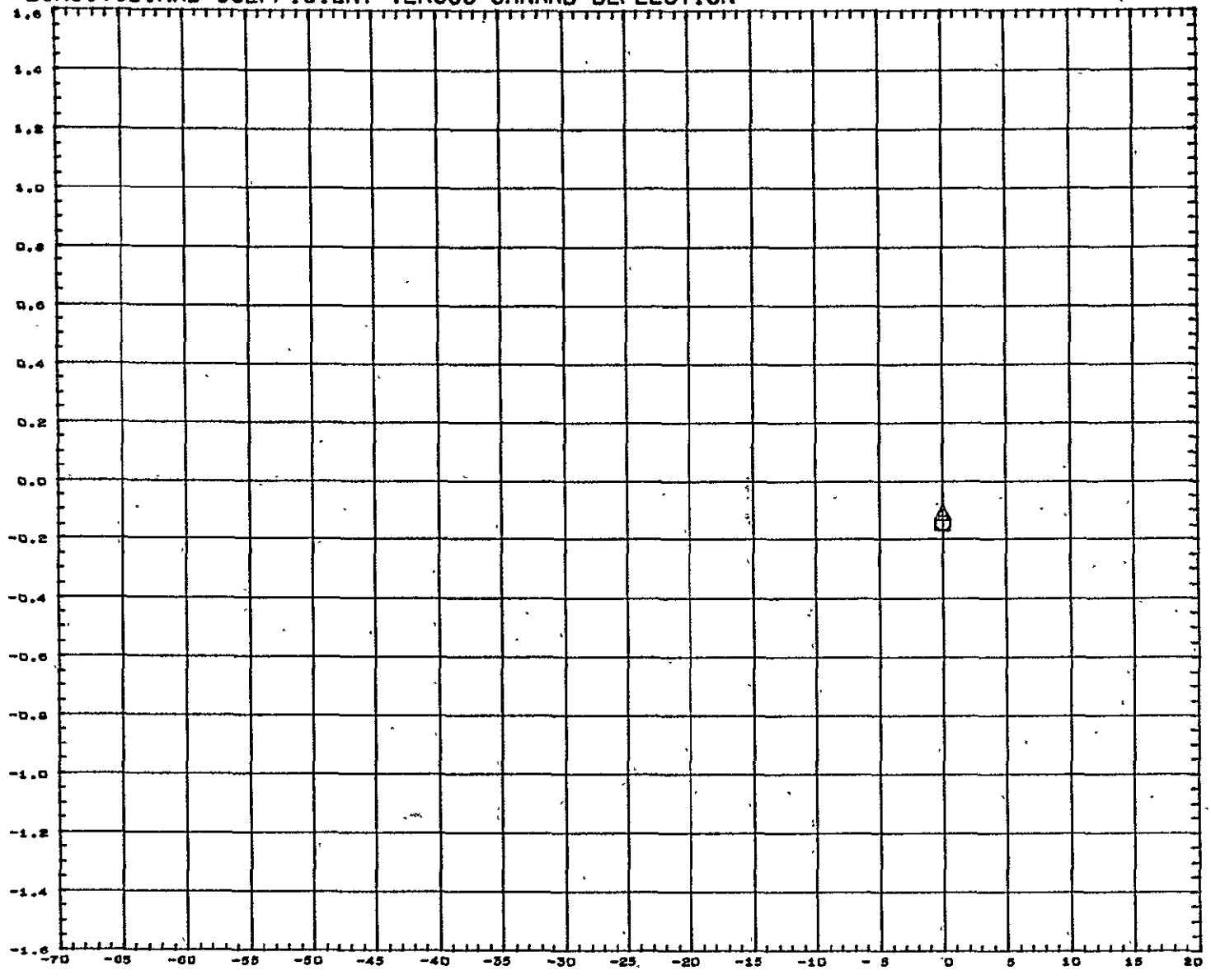
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.100	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

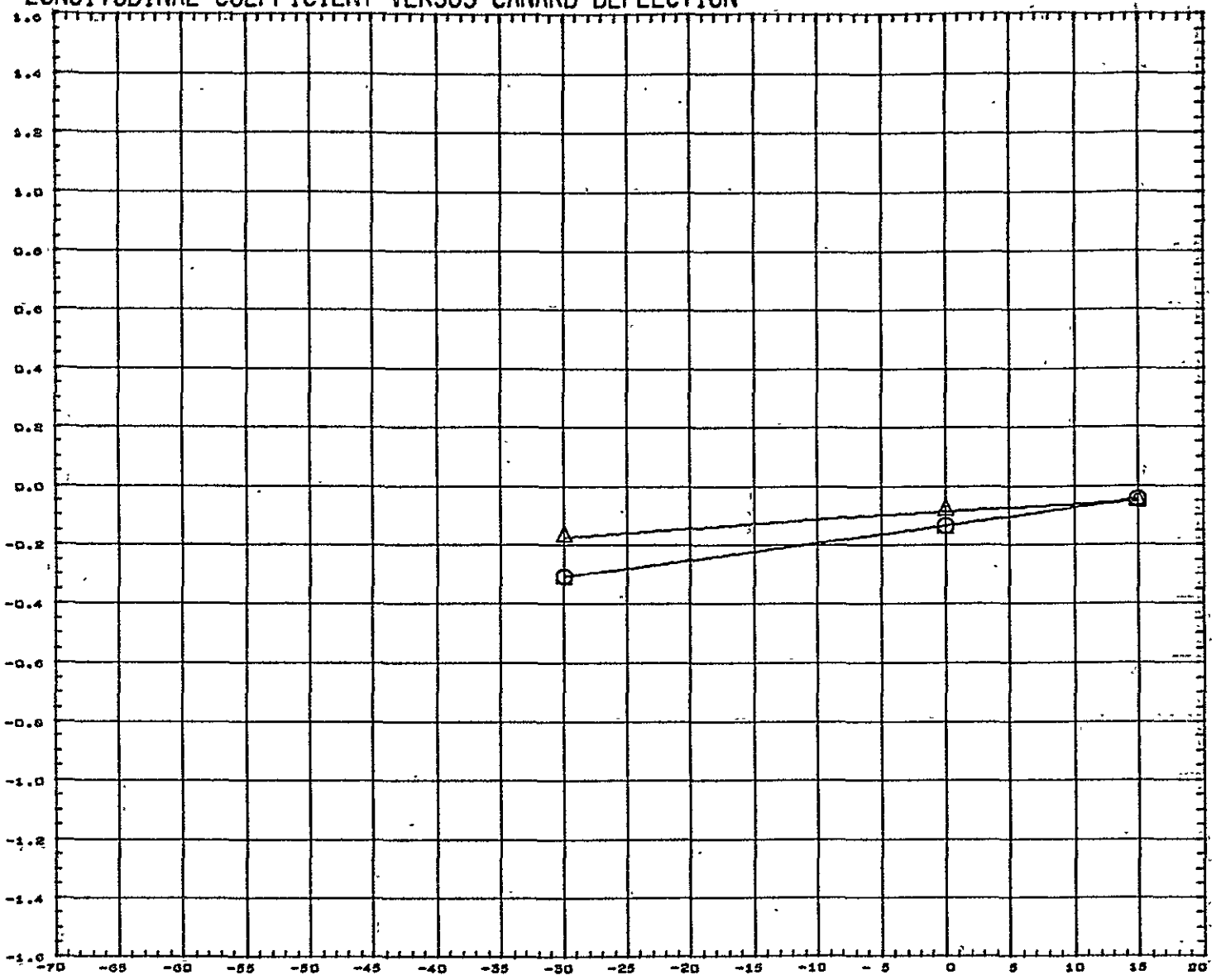
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
DEL	0.000	DER	0.000
DCL	+ 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1

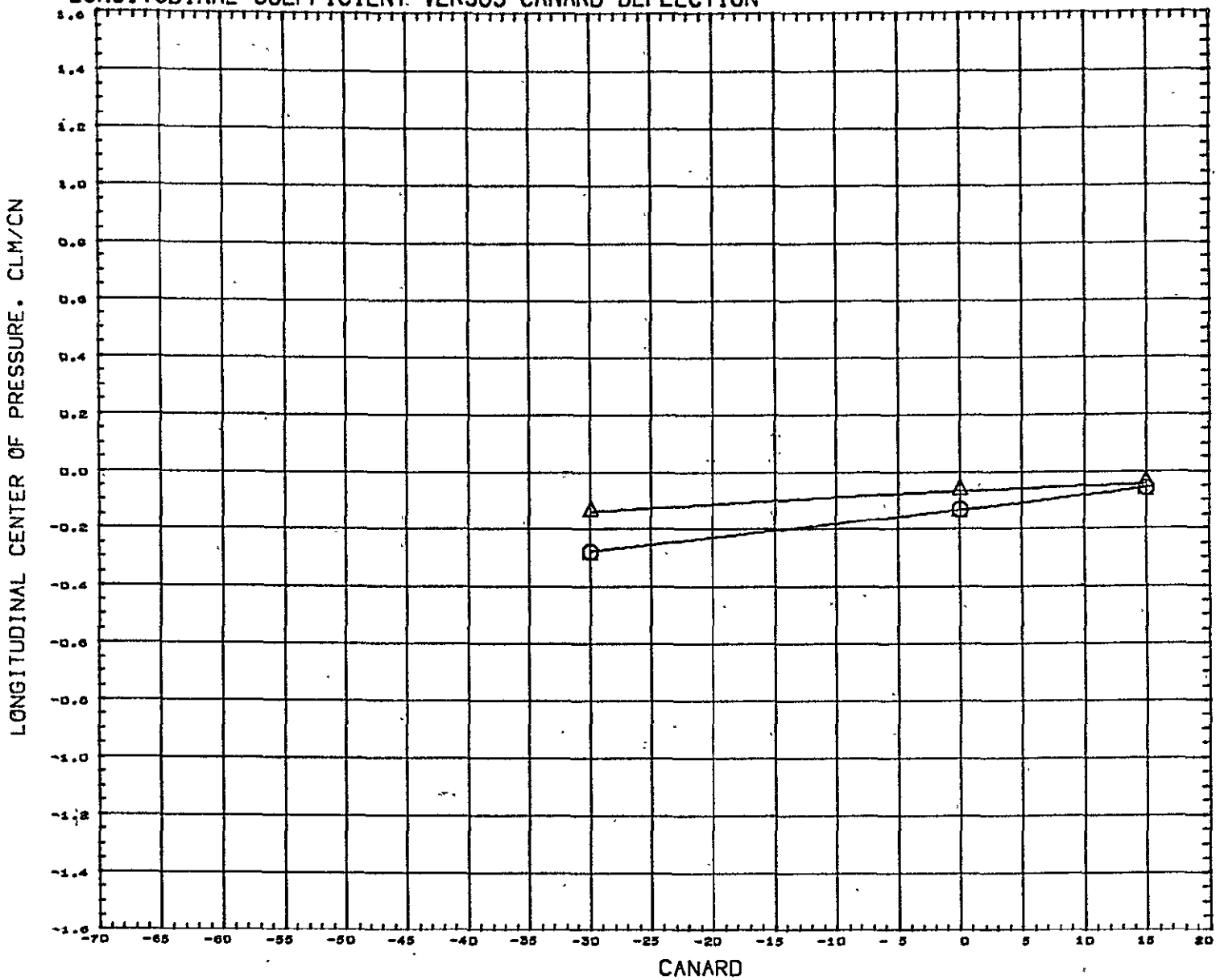
DATA SOURCE

DATASET	CANARD
G28C47	- 60.000
G28C41	- 30.000
G28C44	15.000
G28C50	- 45.000
G28B31	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

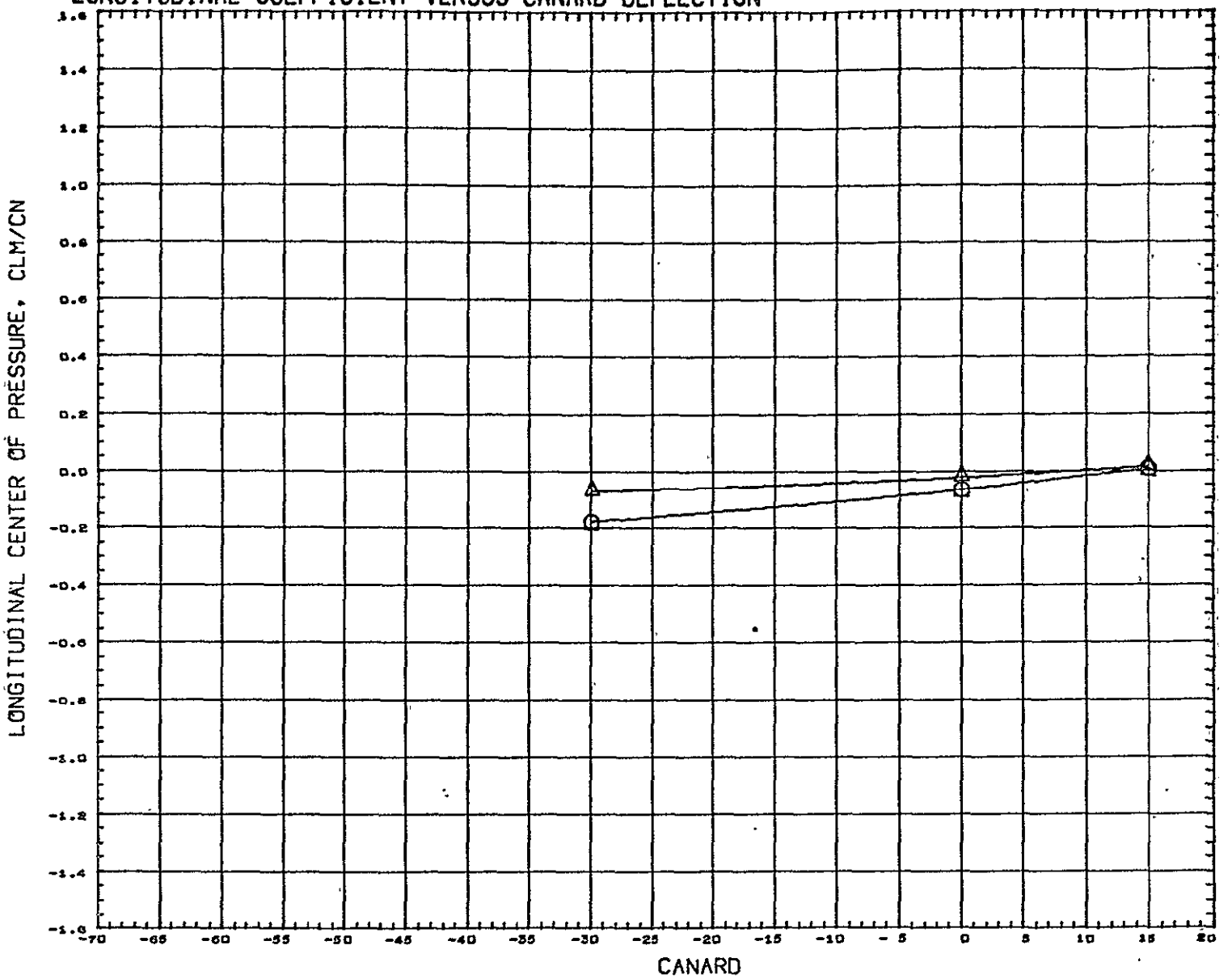
PARAMETRIC VALUES			
MACH	1.500	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

DATA SOURCE			
DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

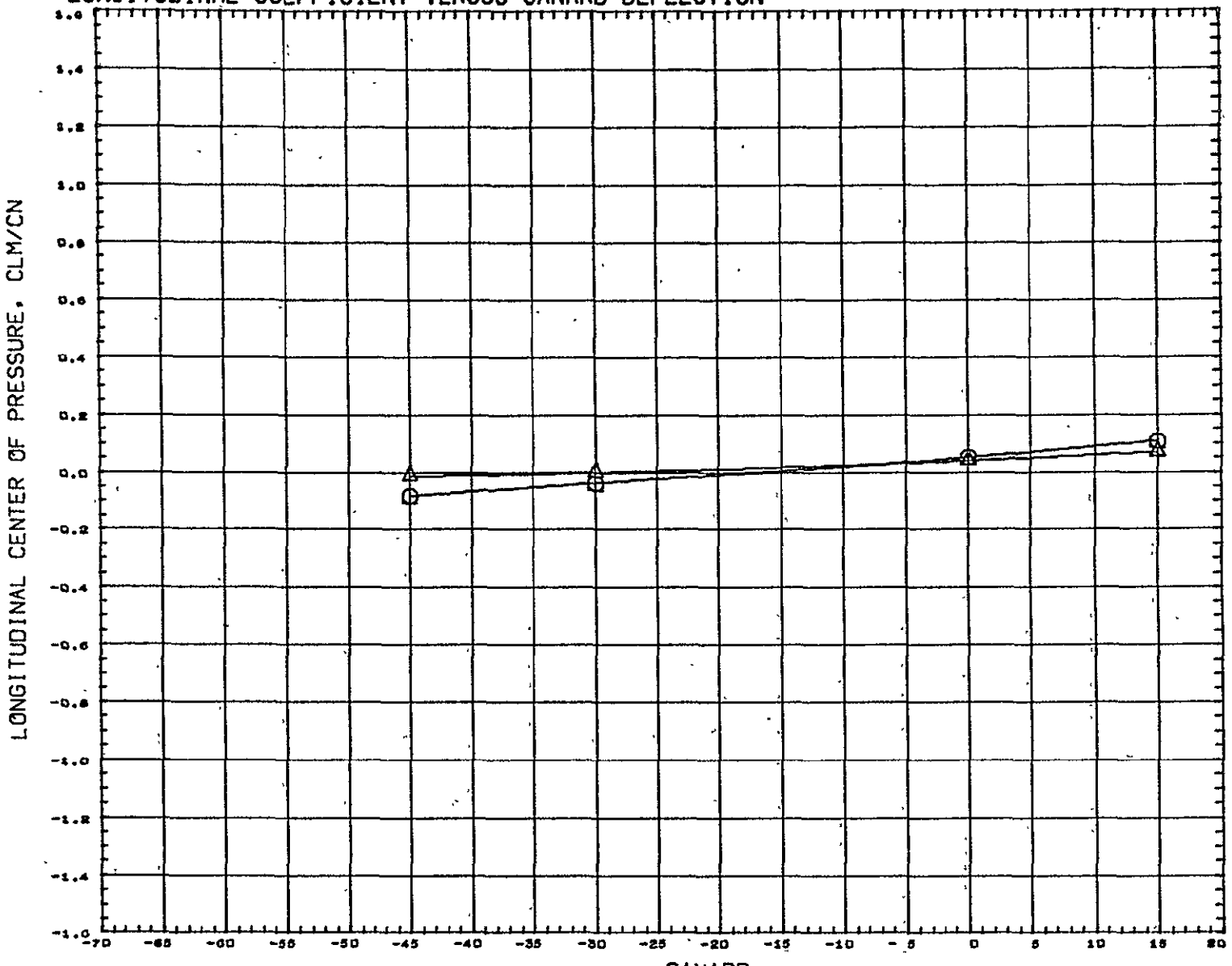
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

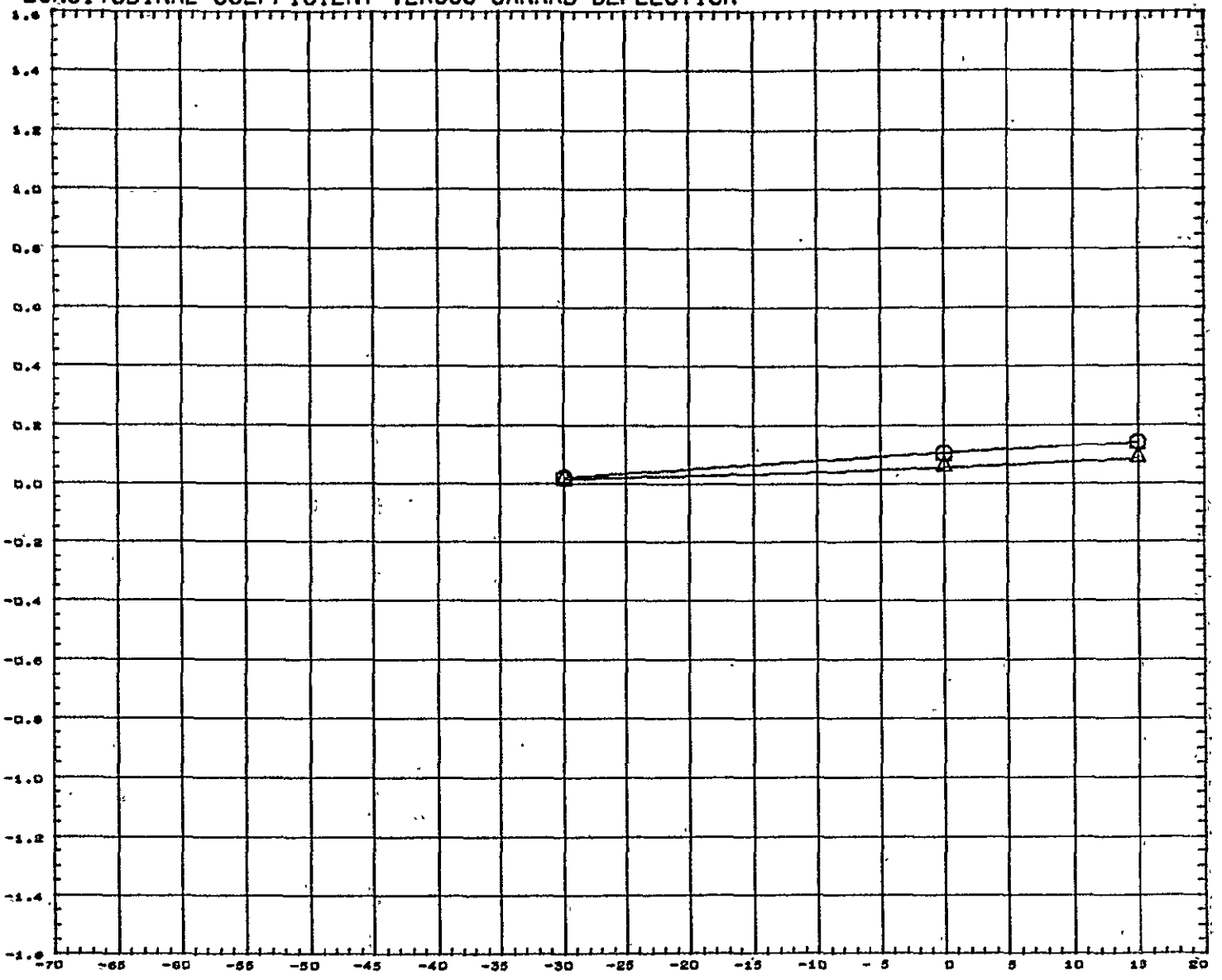
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

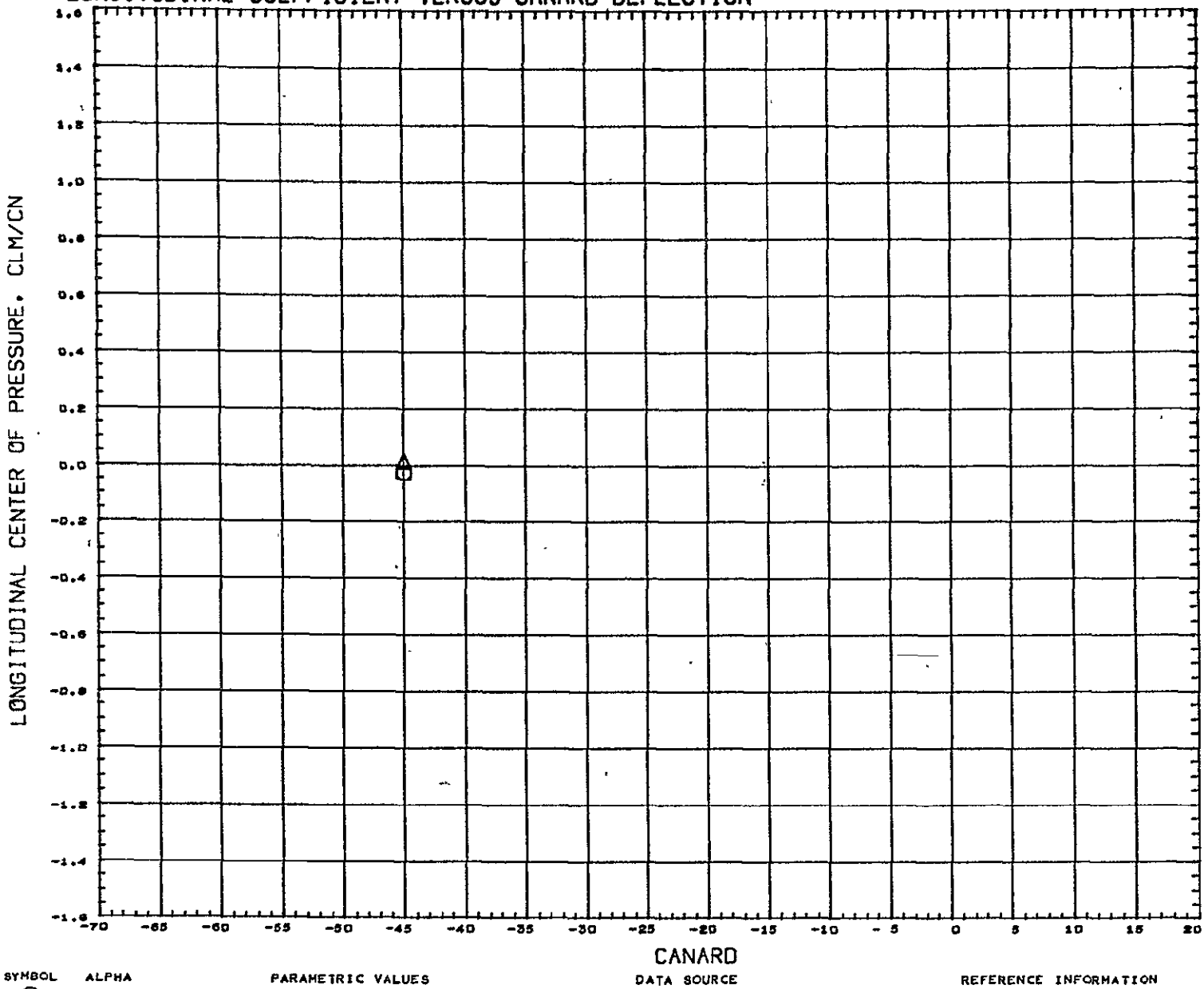
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	4.500	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

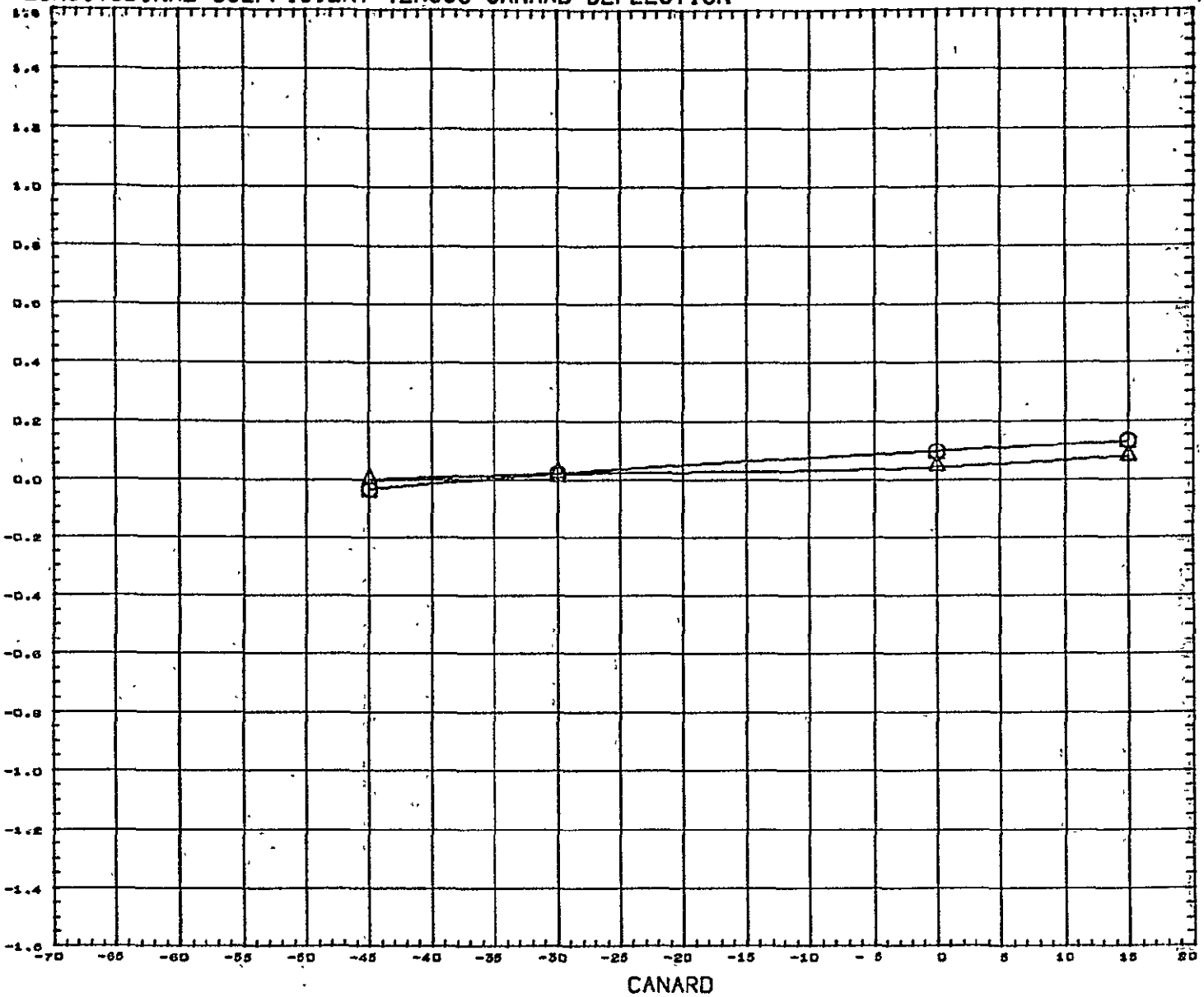
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28831	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA MIST. CODE MVR*E1

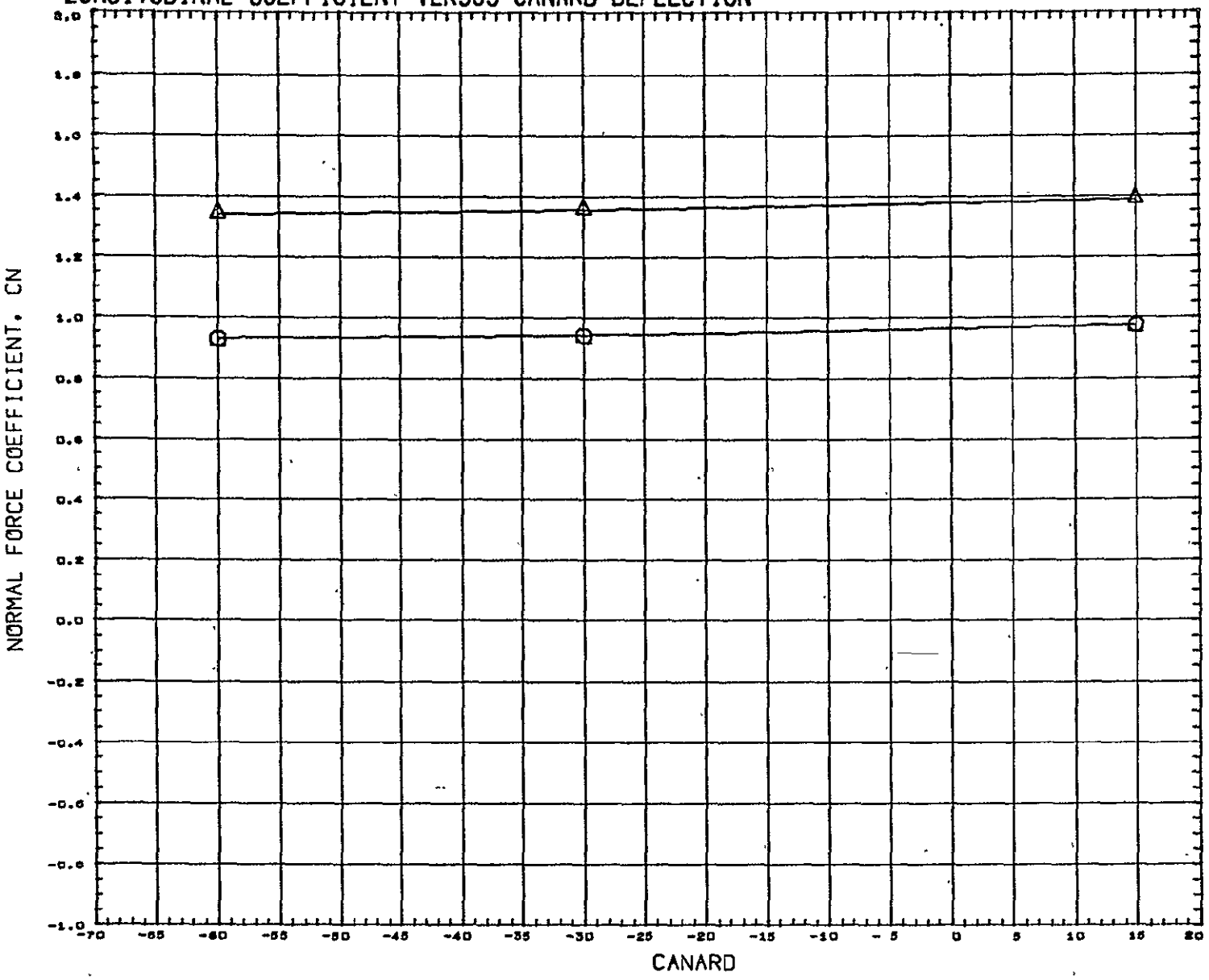
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C47	- 60.000	G28C50	- 45.000
G28C41	- 30.000	G28B31	0.000
G28C44	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

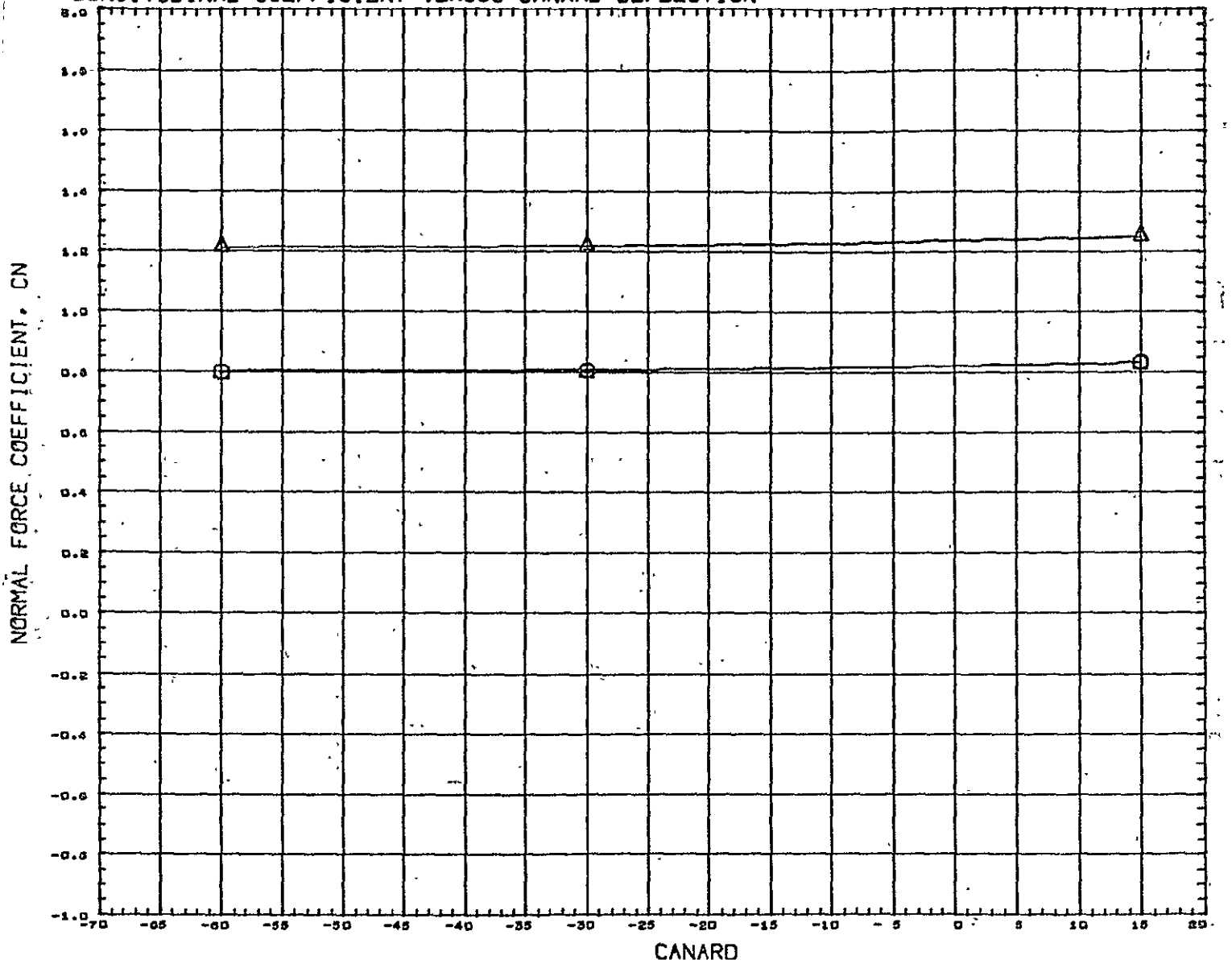
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C48	- 60.000	G28C42	- 30.000
G28C45	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*E1

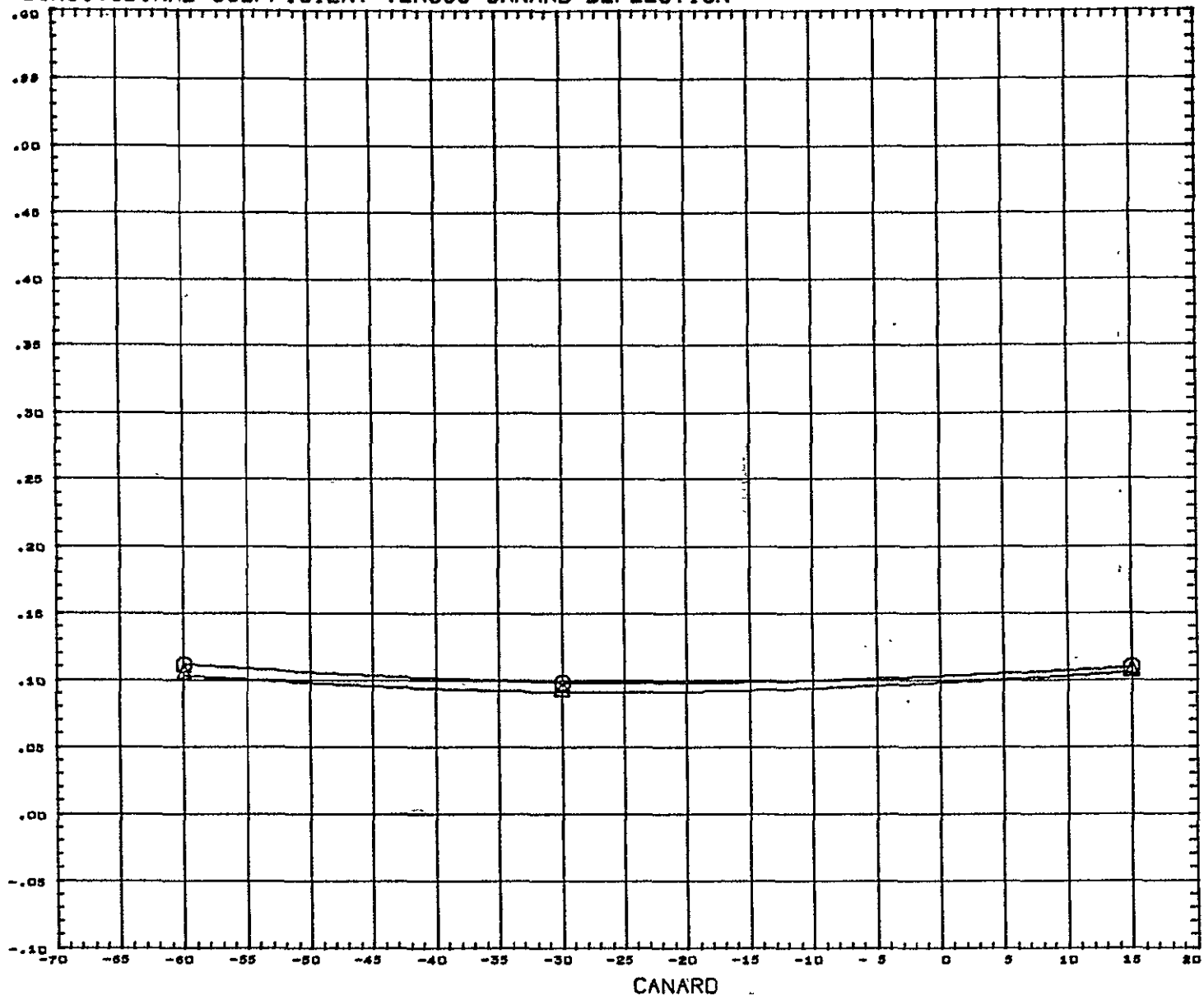
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C48	- 60.000	G28C42	- 30.000
G28C45	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*E1

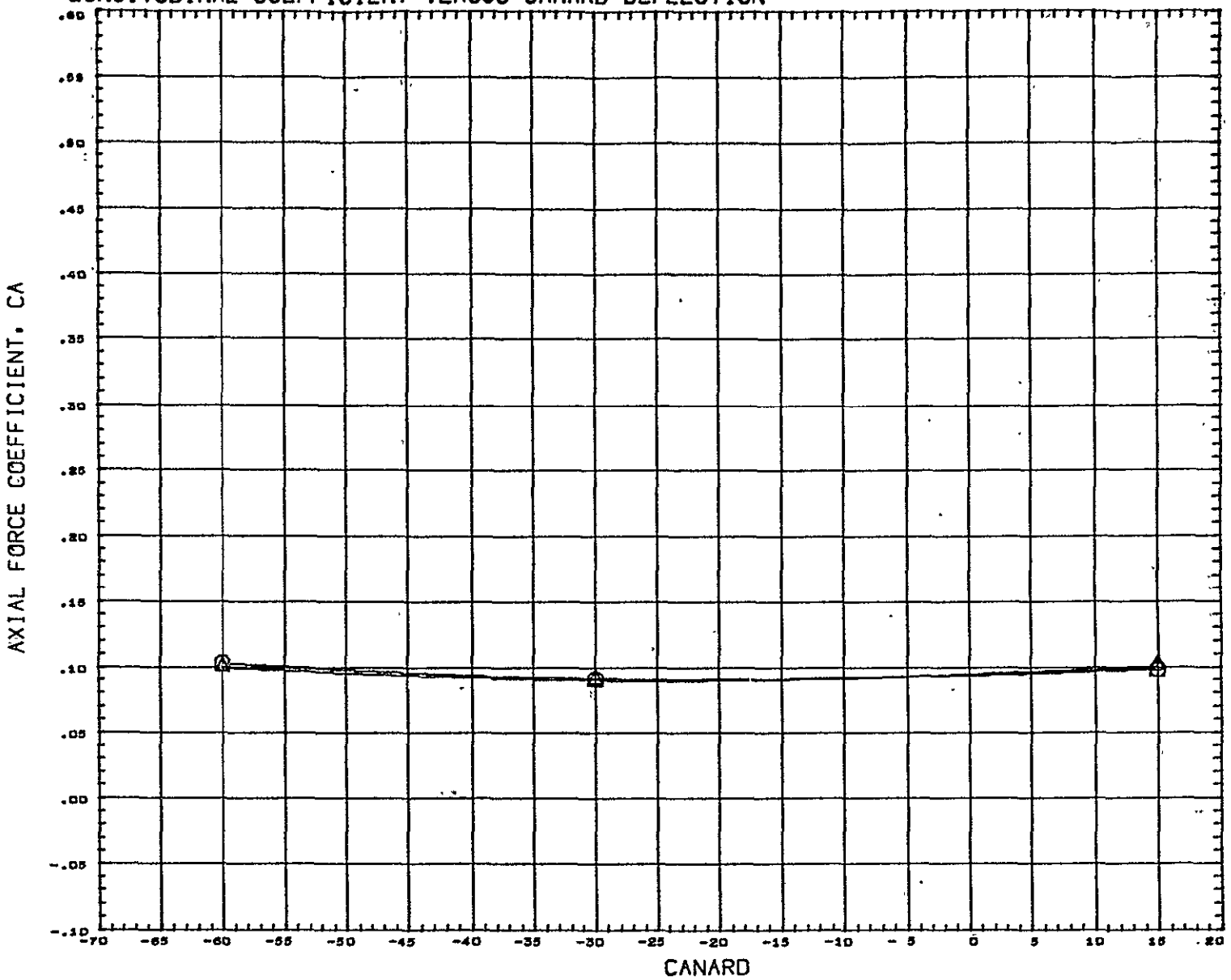
DATA SOURCE

DATASET	CANARD	DATASET	CANARD		
G28C48	- 60.000	G28C42	- 30.000		
G28C45	15.000				

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
◇	30.000
◇	40.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

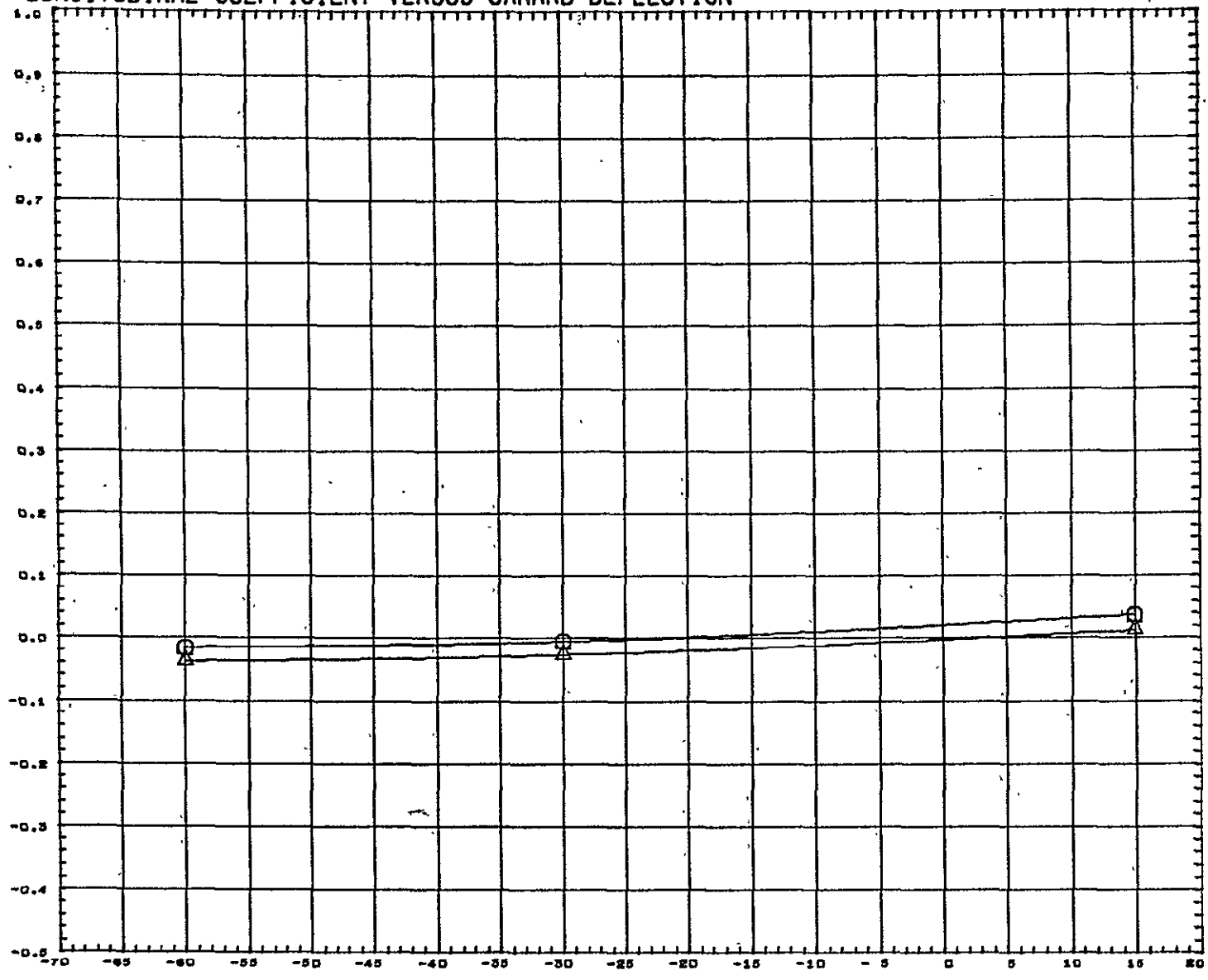
DATA SOURCE

DATASET	CANARD	DATASET	CANARD	DATASET	CANARD
G28C46	- 60.000	G28C45	15.000	G28C42	- 30.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	30.000
△	40.000

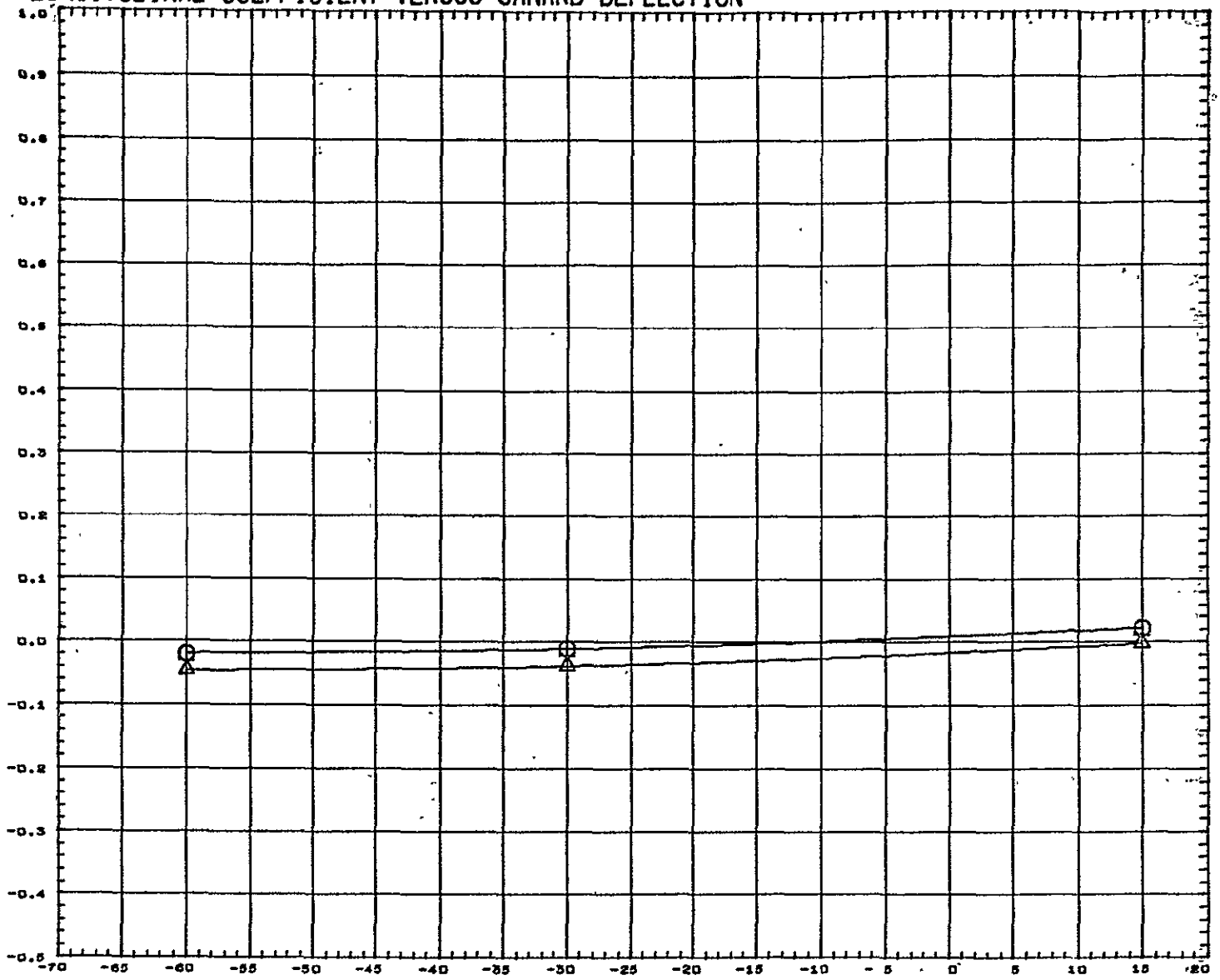
PARAMETRIC VALUES			
MACH	3.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

DATA SOURCE					
DATASET	CANARD	DATASET	CANARD	DATASET	CANARD
G28C48	- 60.000	G28C42	- 30.000		
G28C45	15.000				

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

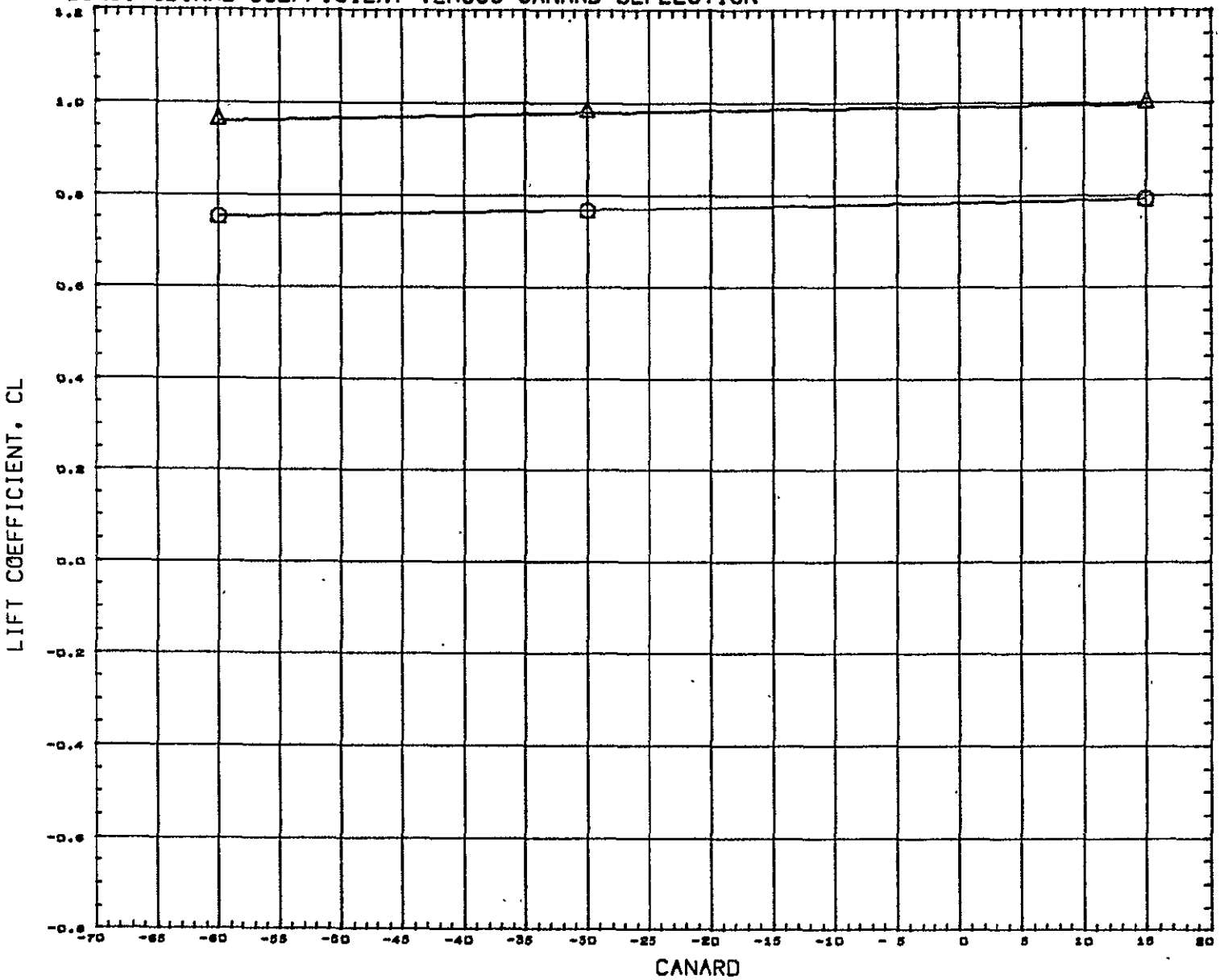
DATA SOURCE

DATASET	CANARD	DATASET	CANARD	DATASET	CANARD
G28C48	- 60.000	G28C42	- 30.000		
G28C45	15.000				

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

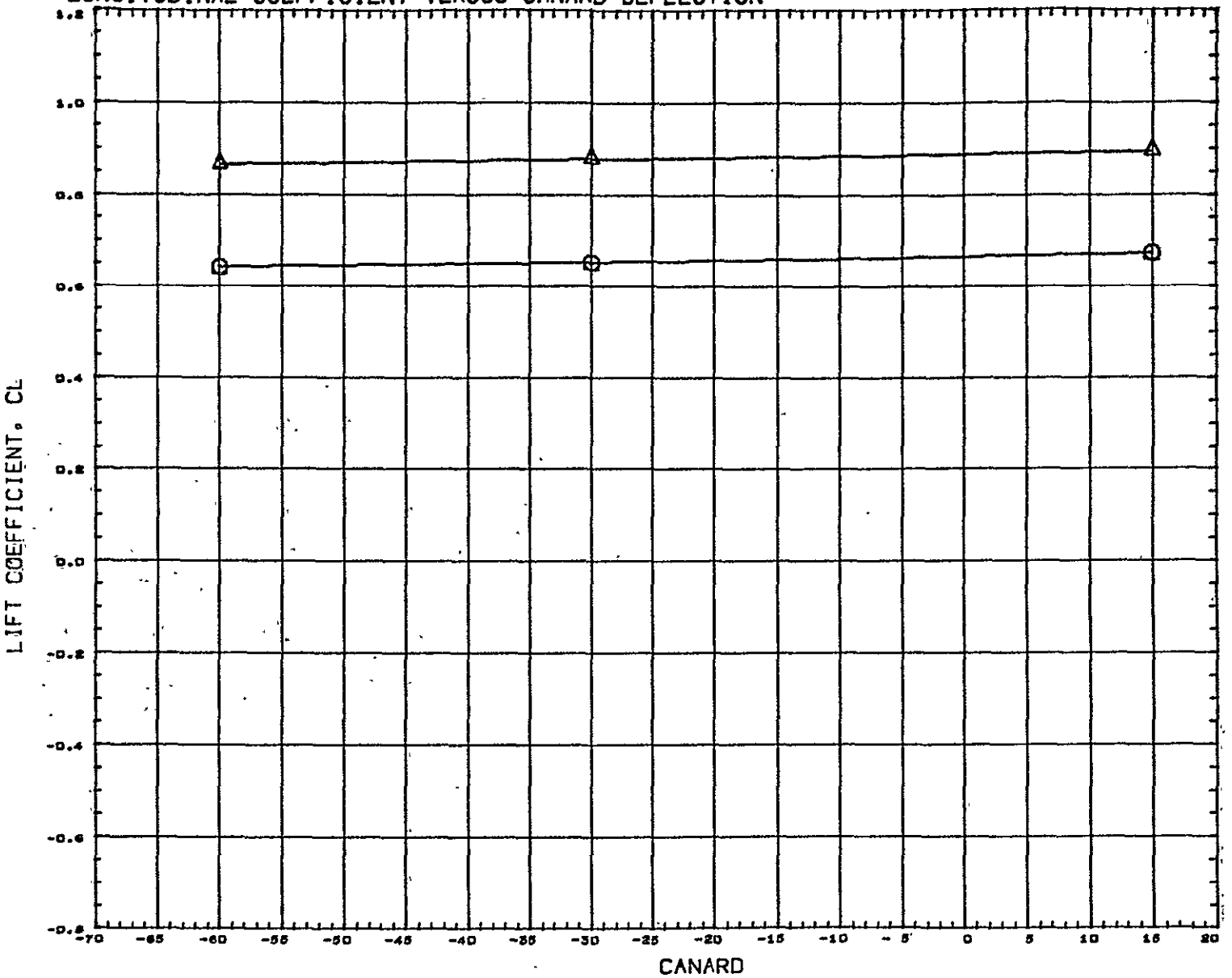
DATA SOURCE

DATASET	CANARD		DATASET	CANARD	
G28C46	- 60.000		G28C42	- 30.000	
G28C45	15.000				

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

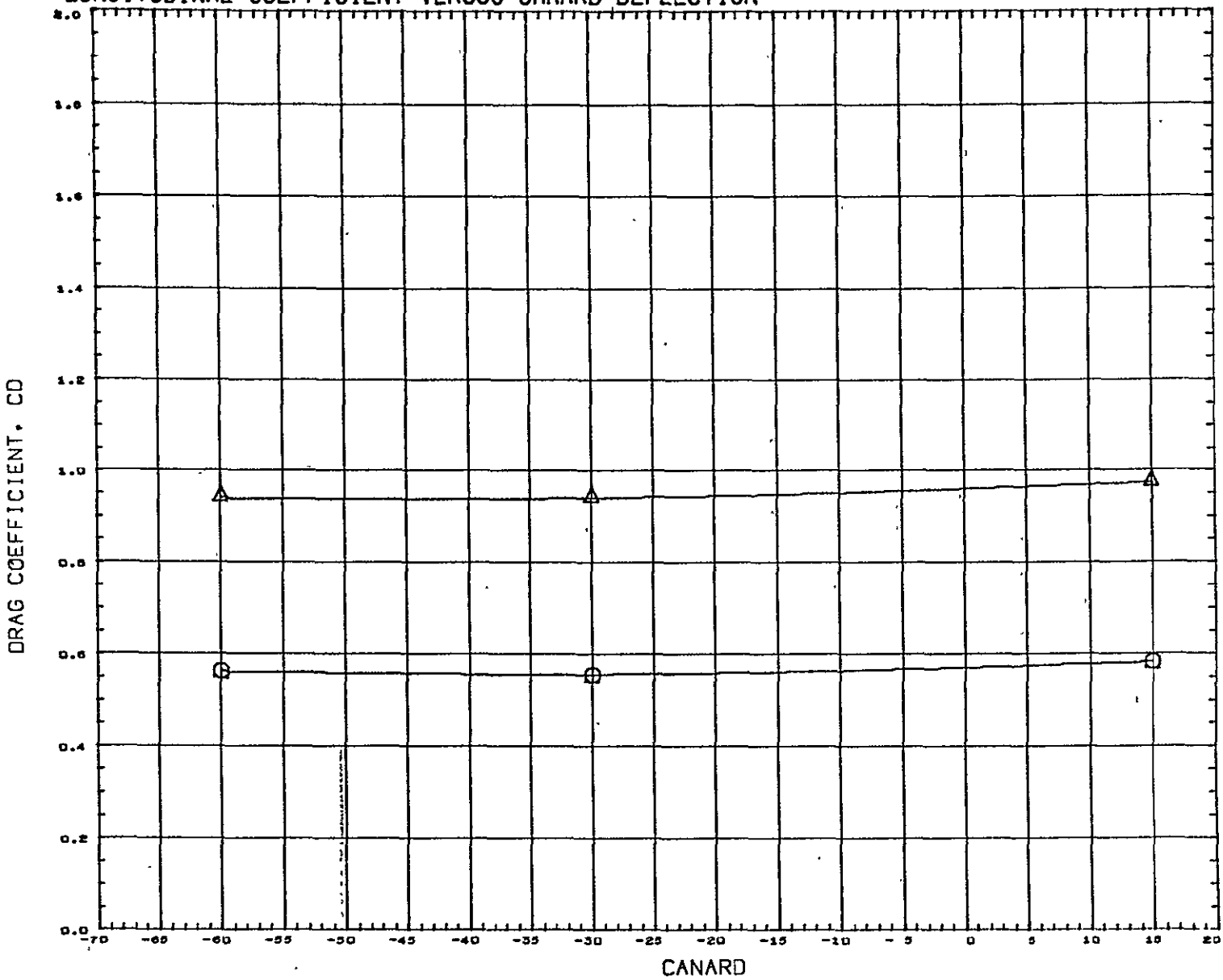
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C48	- 60.000	G28C42	- 30.000
G28C45	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	5.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR*EI

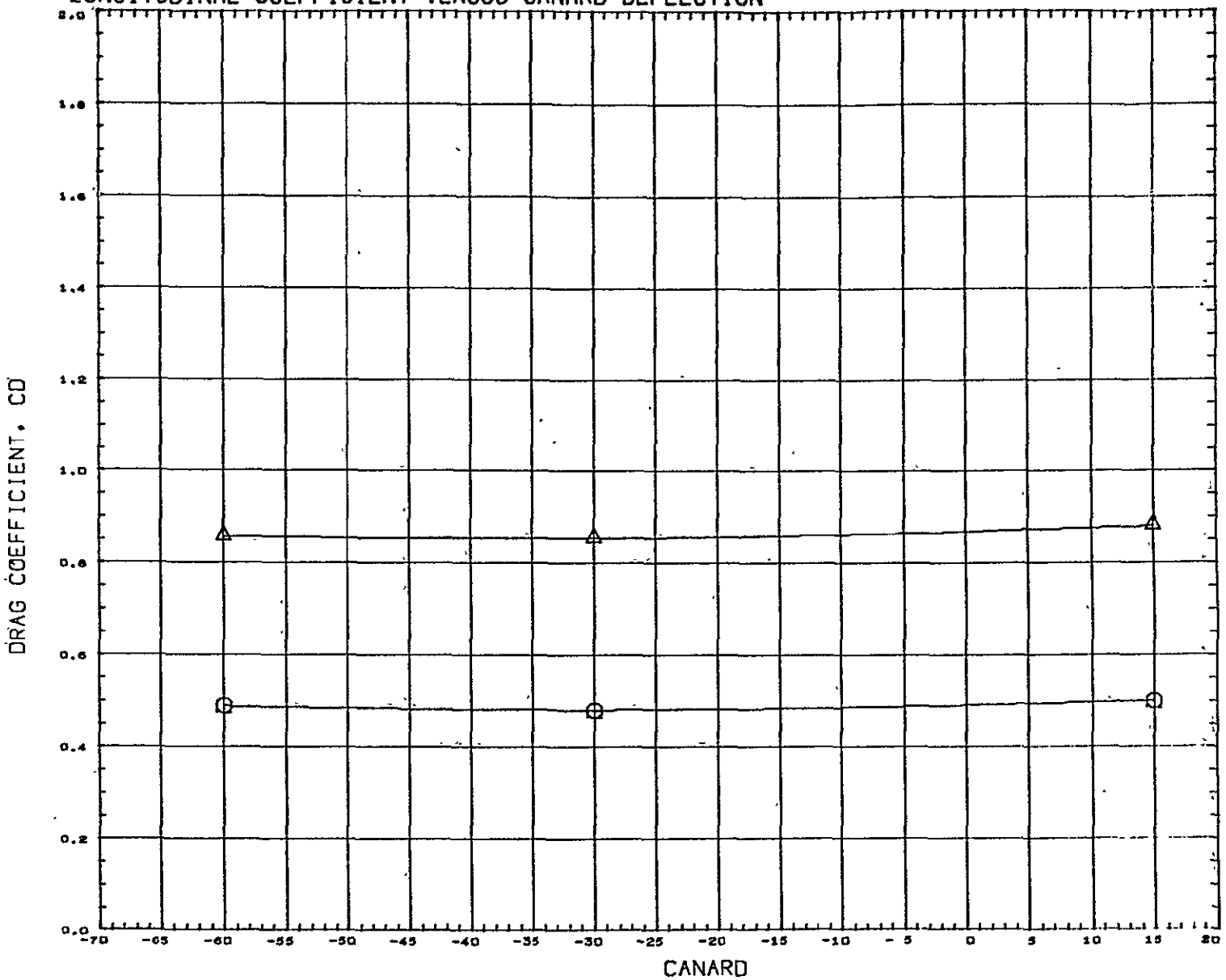
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C48	- 60.000	G28C42	- 30.000
G28C45	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE HVR+EI

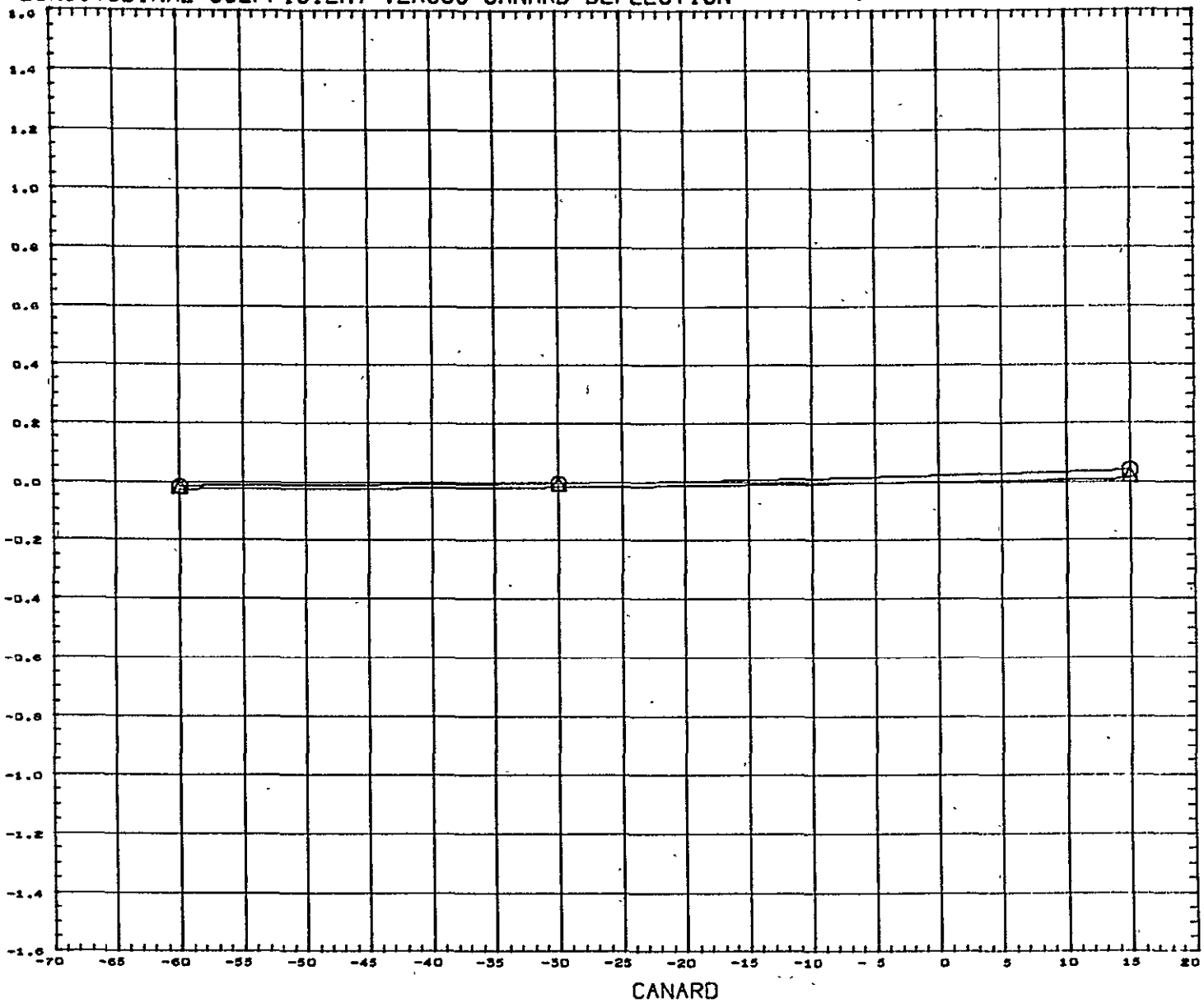
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C48	- 60.000	G28C42	- 30.000
G28C45	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

MACH	3.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR*EI

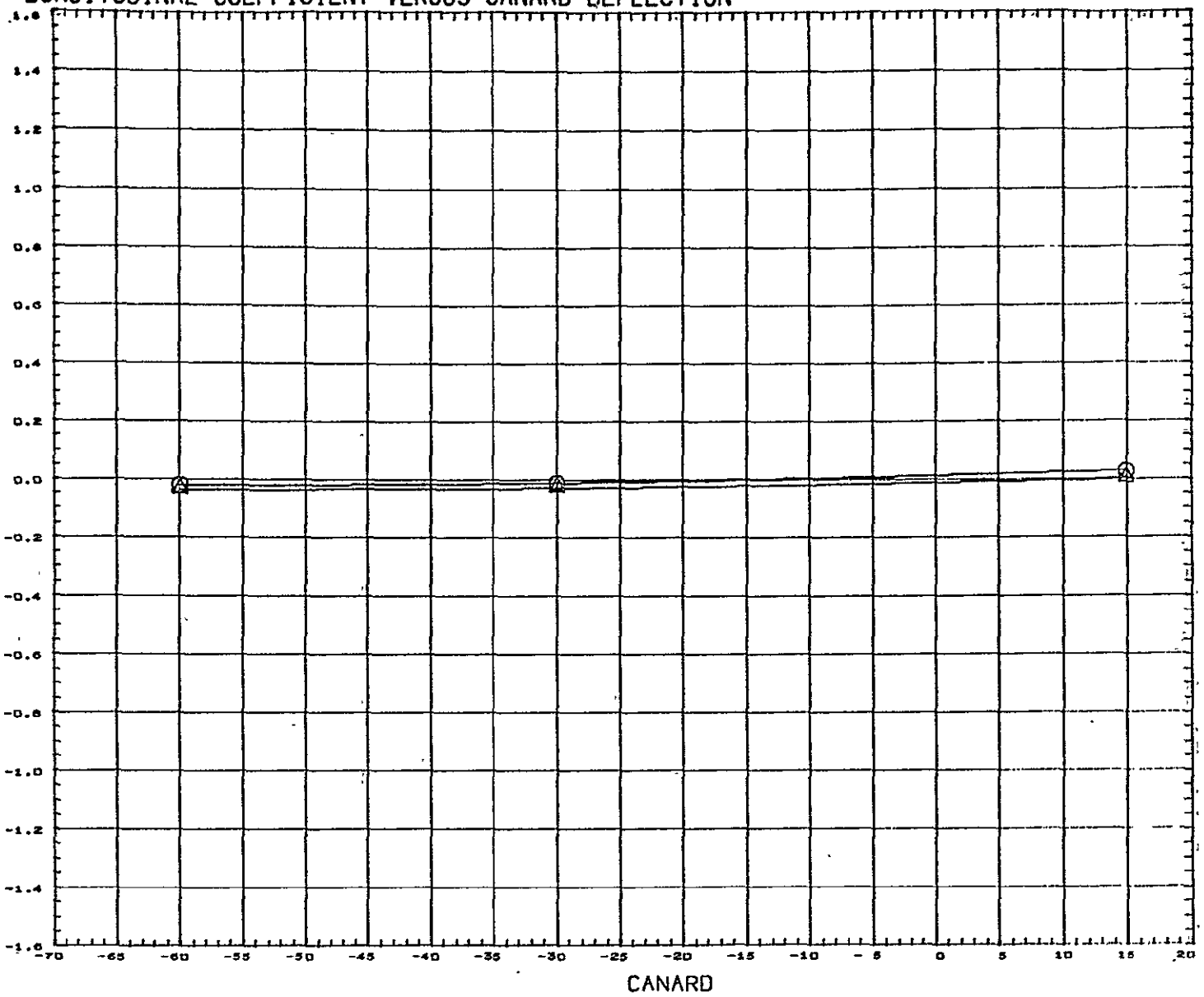
DATA SOURCE

DATASET	CANARD	DATASET	CANARD
G28C48	- 60.000	G28C42	- 30.000
G28C45	15.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL COEFFICIENT VERSUS CANARD DEFLECTION



SYMBOL	ALPHA
○	30.000
△	40.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000
DEL	0.000	DER	0.000
DCL	- 60.000	DCR	- 60.000
ELEVON	0.000	AILRON	0.000

DATA HIST. CODE MVR#E1

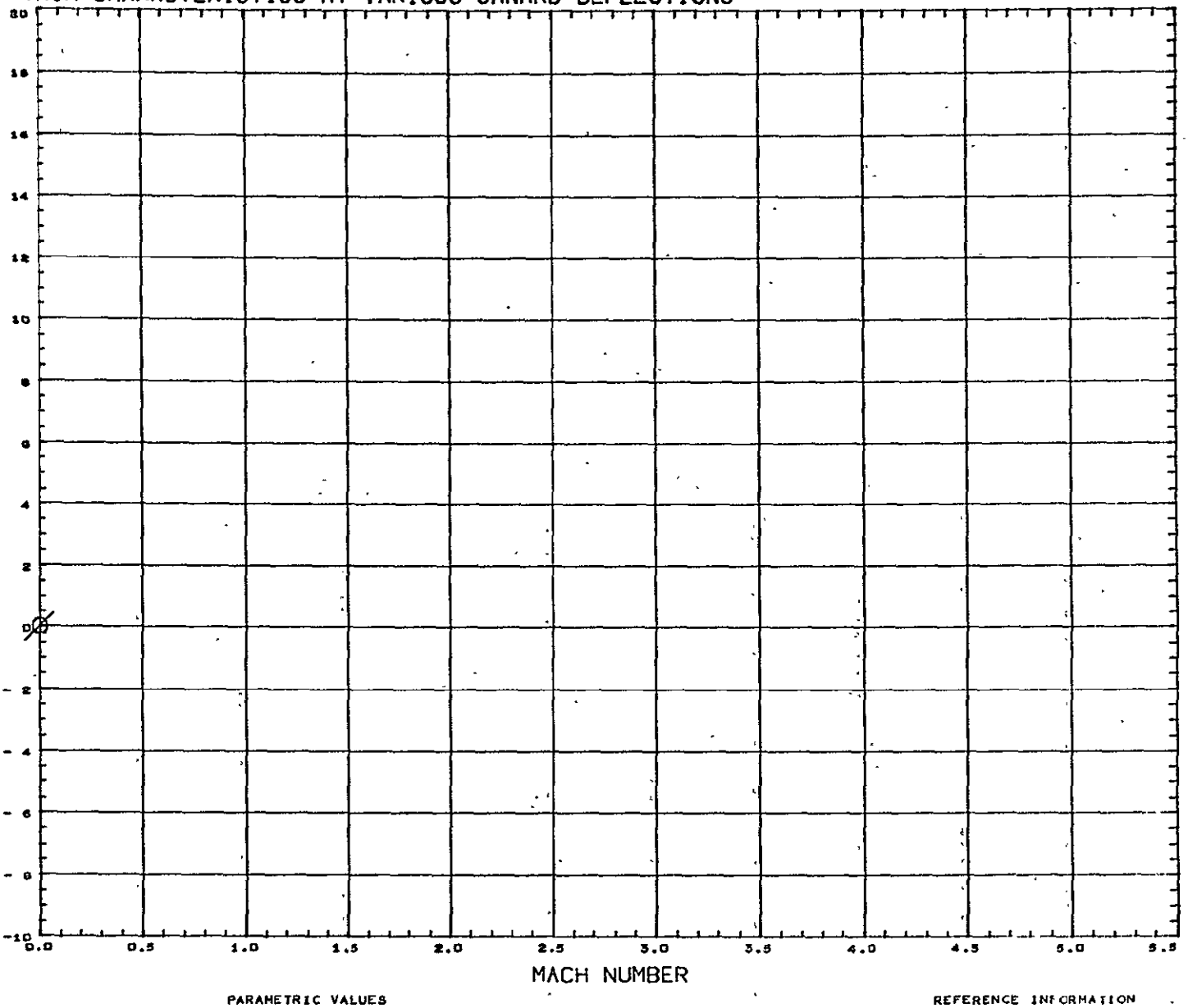
DATA SOURCE

DATASET	CANARD	DATASET	CANARD		
G28C48	- 60.000	G28C42	- 30.000		
G28C45	15.000				

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

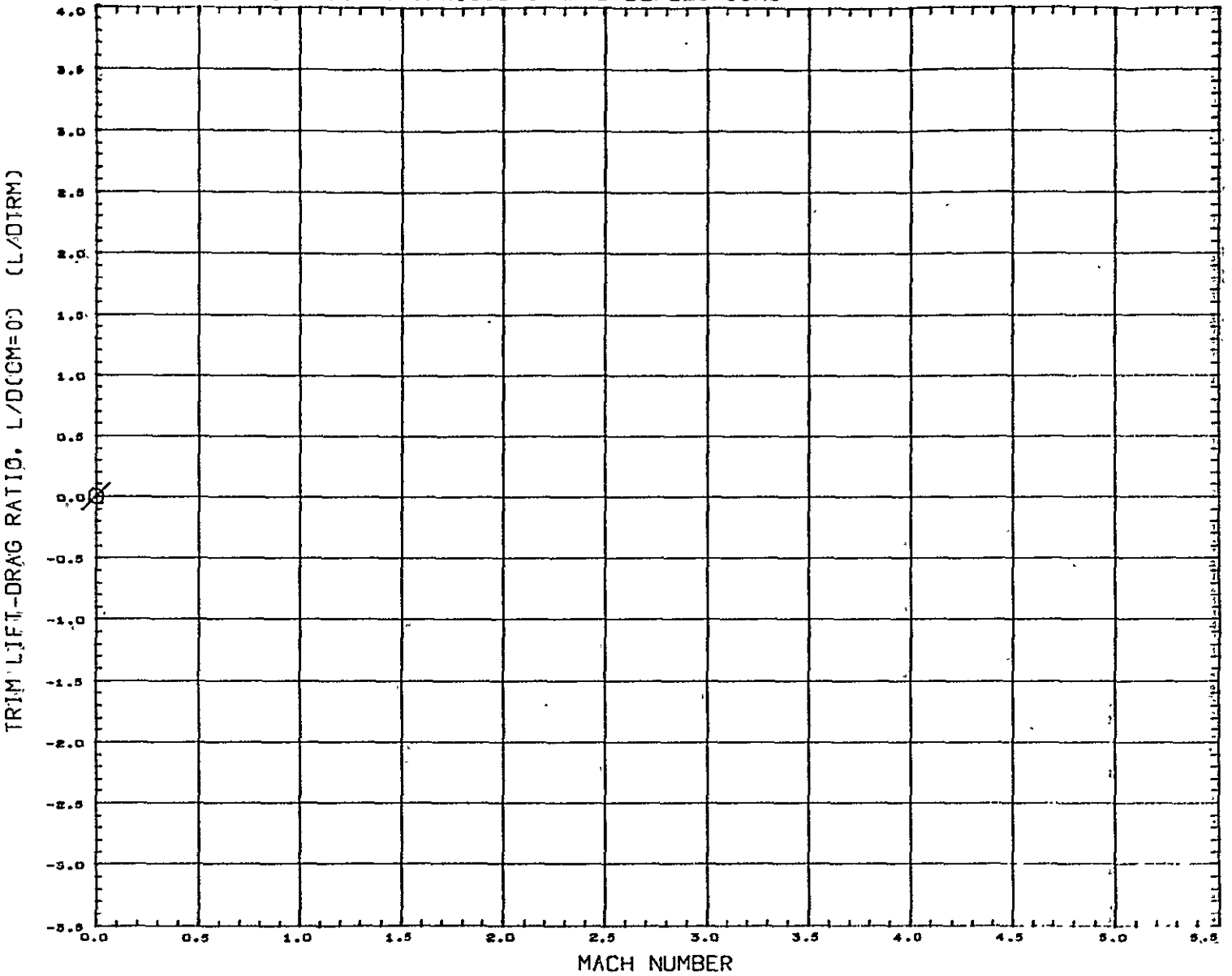
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE HVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

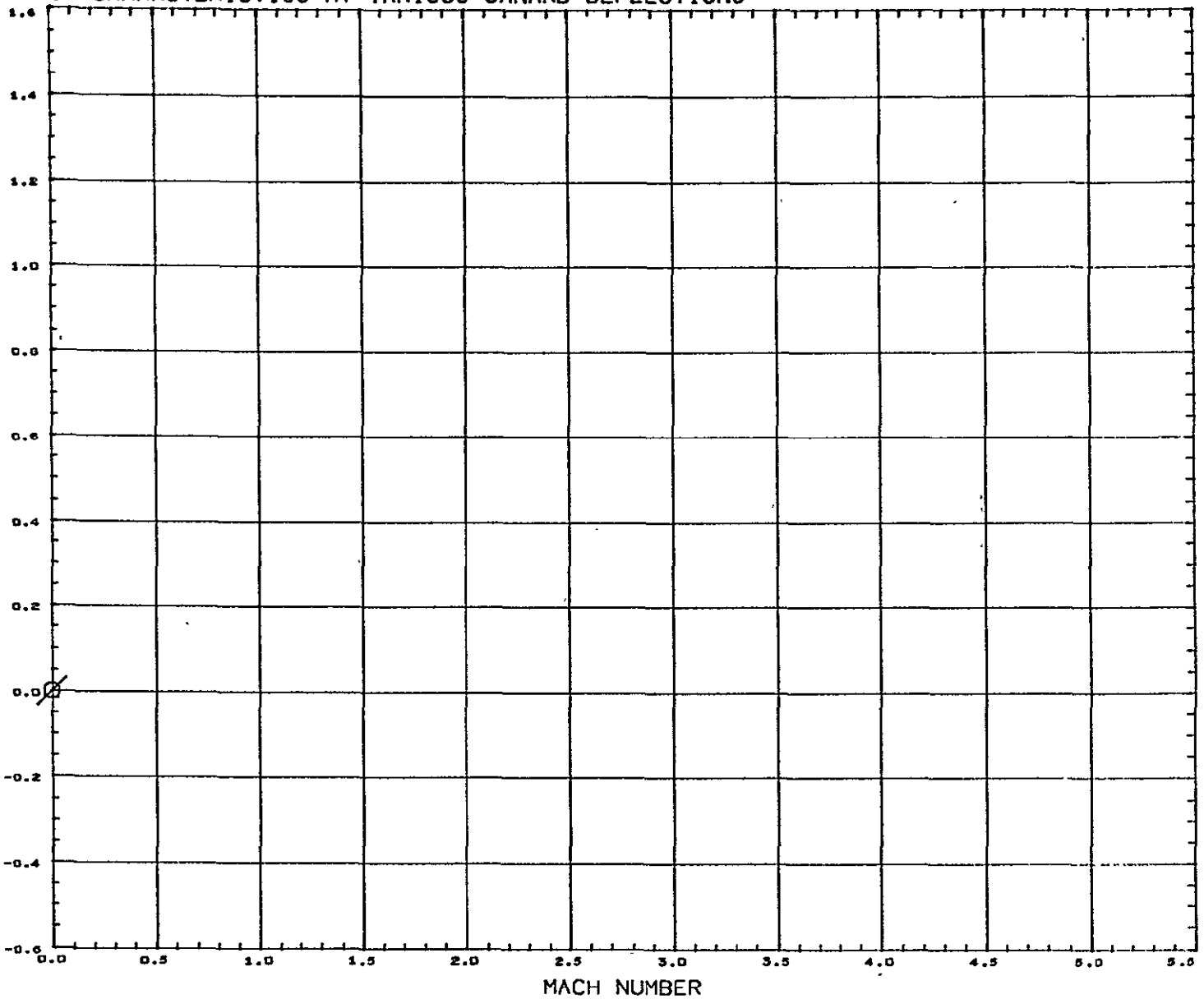
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE MVR#E#GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

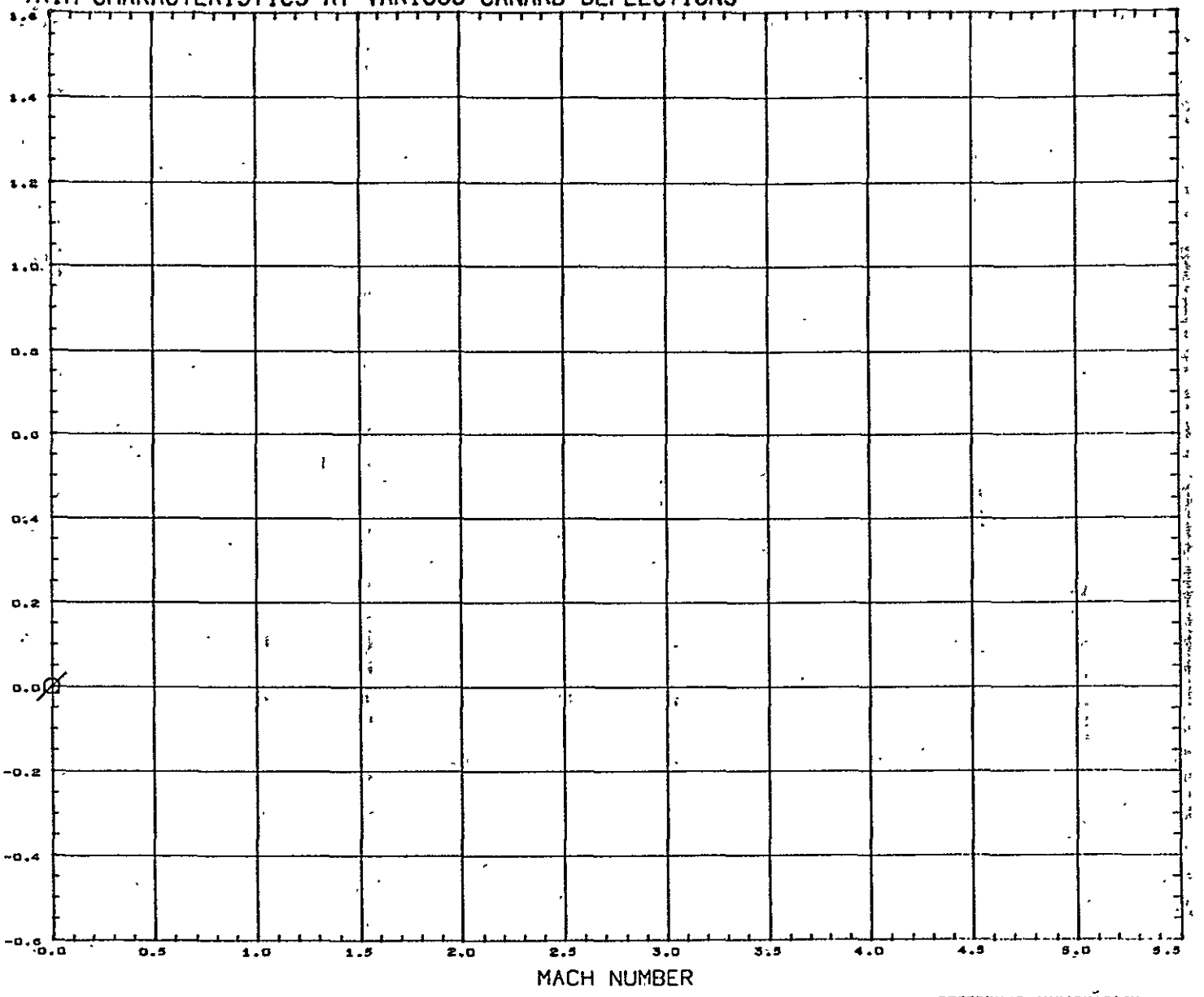
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE MVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

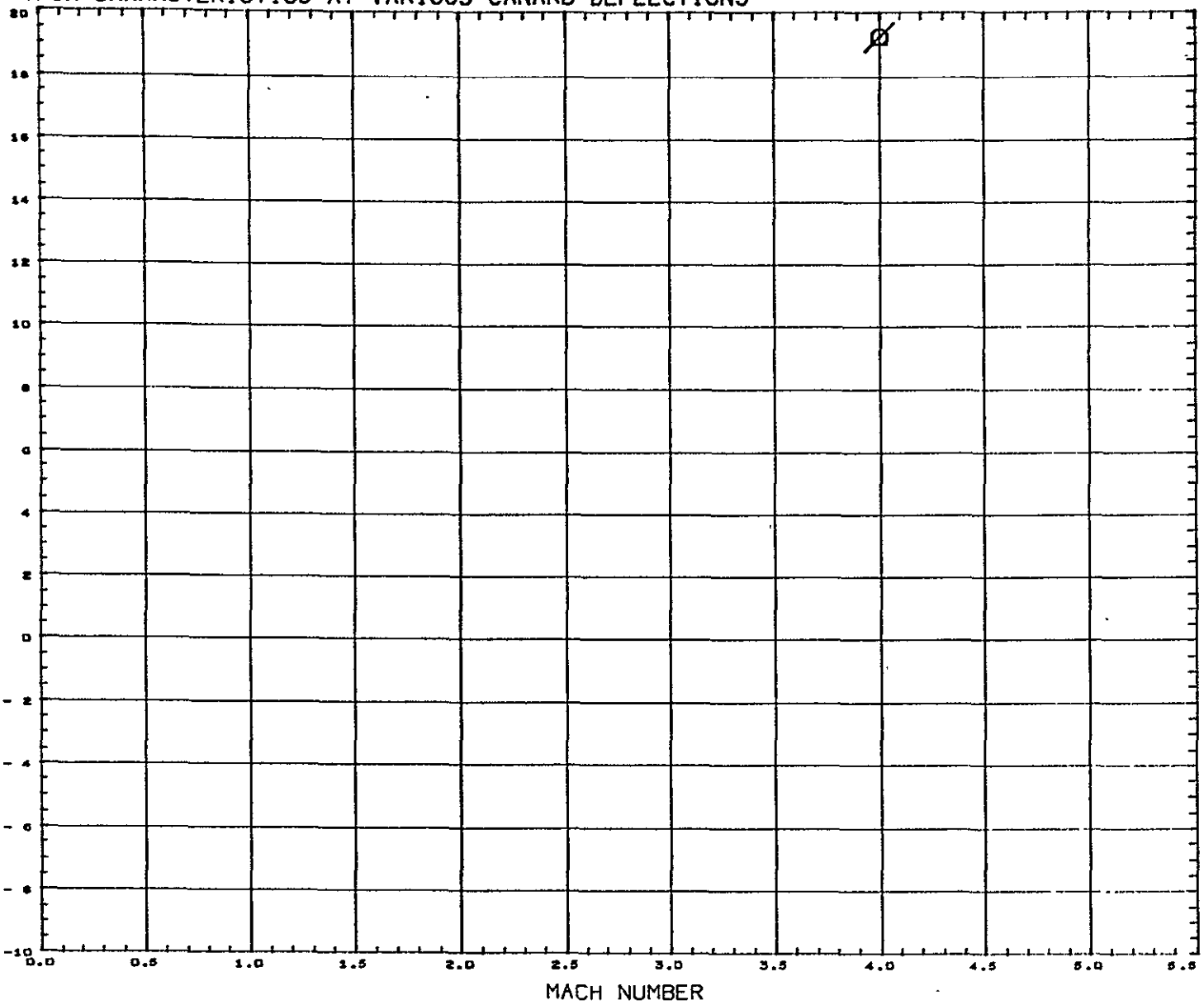
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 60.000
DCR	- 60.000	ELEVON	0.000
CANARD	- 60.000	AILRON	0.000

DATA HIST. CODE MVR*E**GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

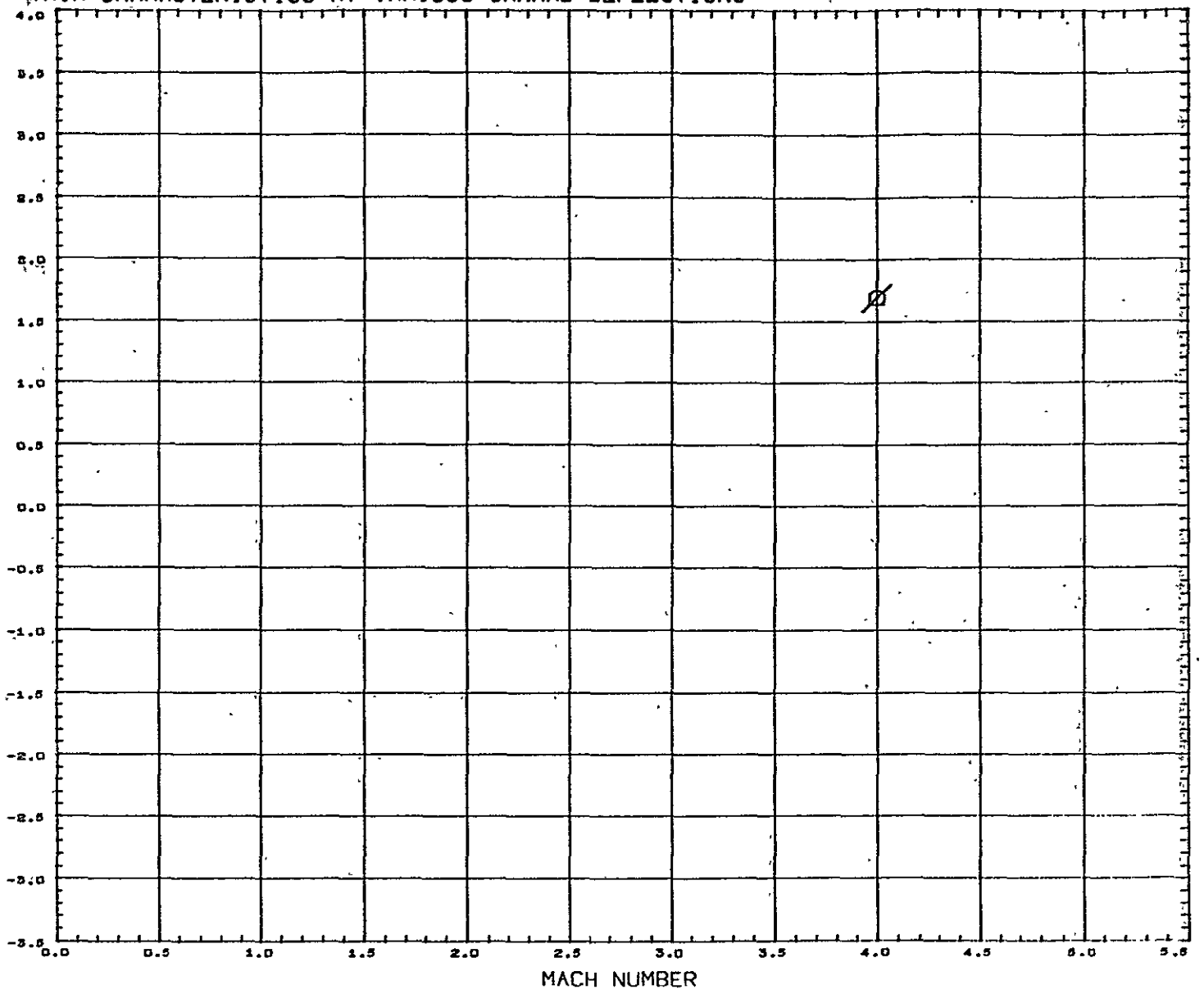
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE HVR*EIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

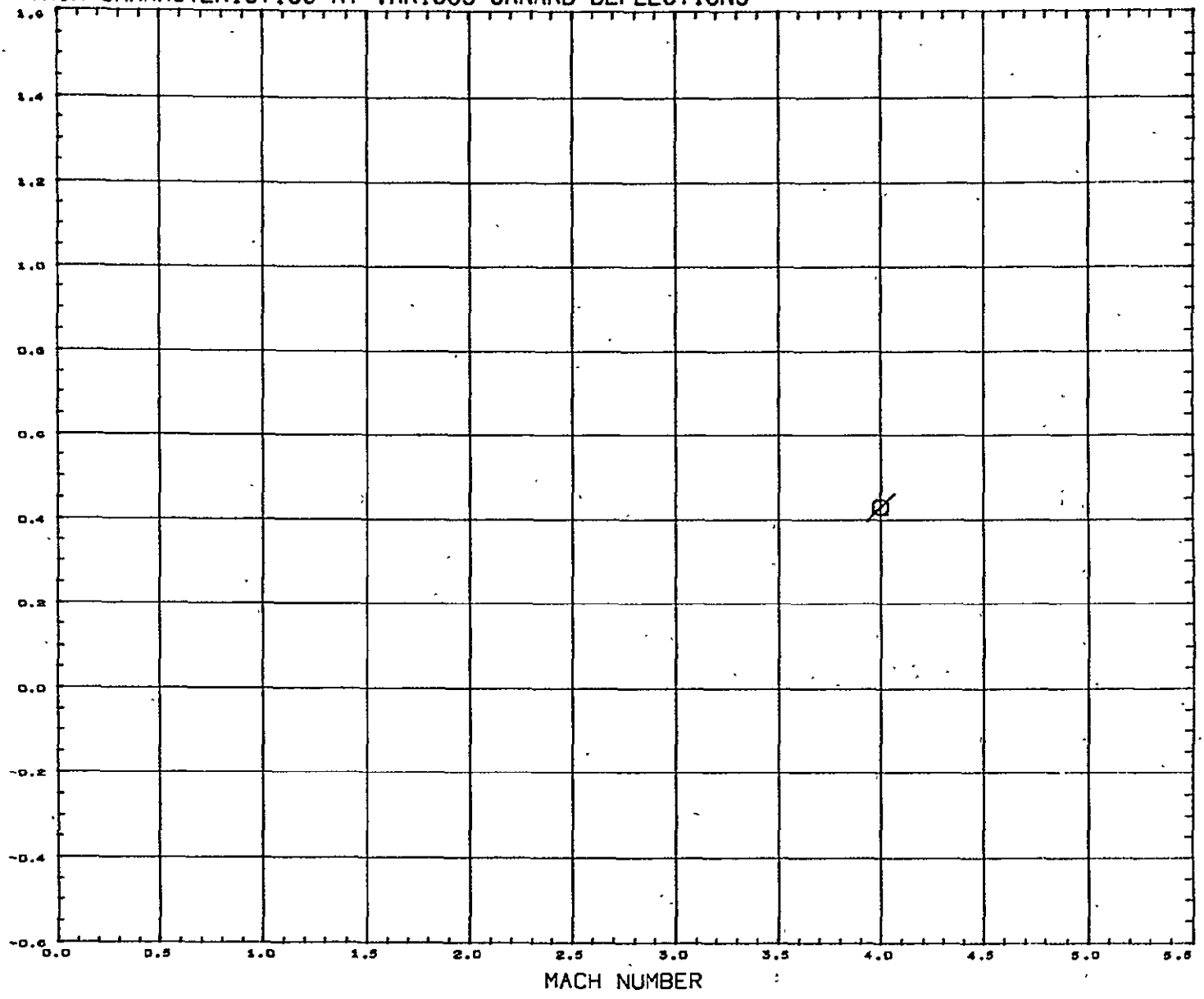
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE HVR#E1F

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

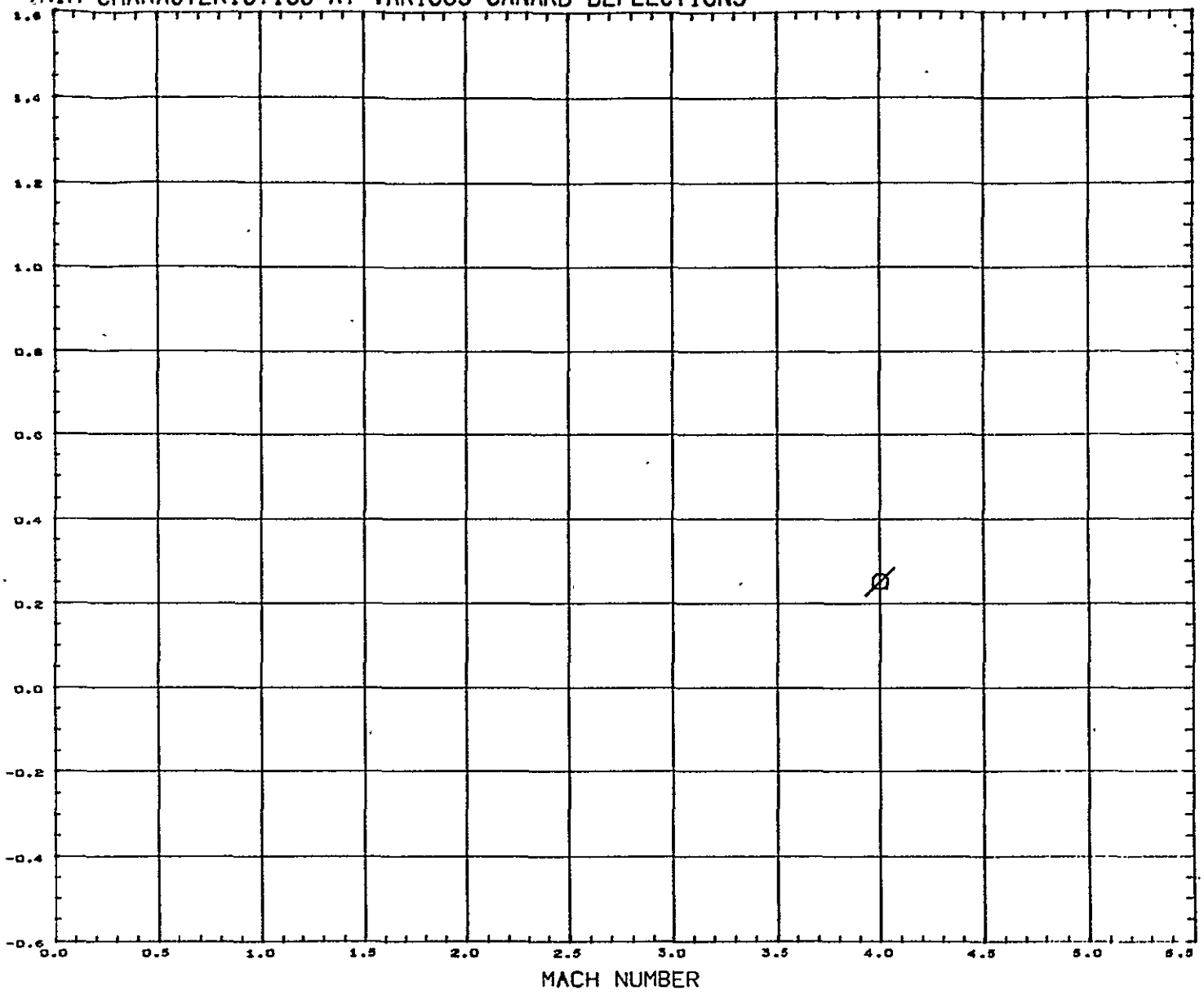
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE MVR*EIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

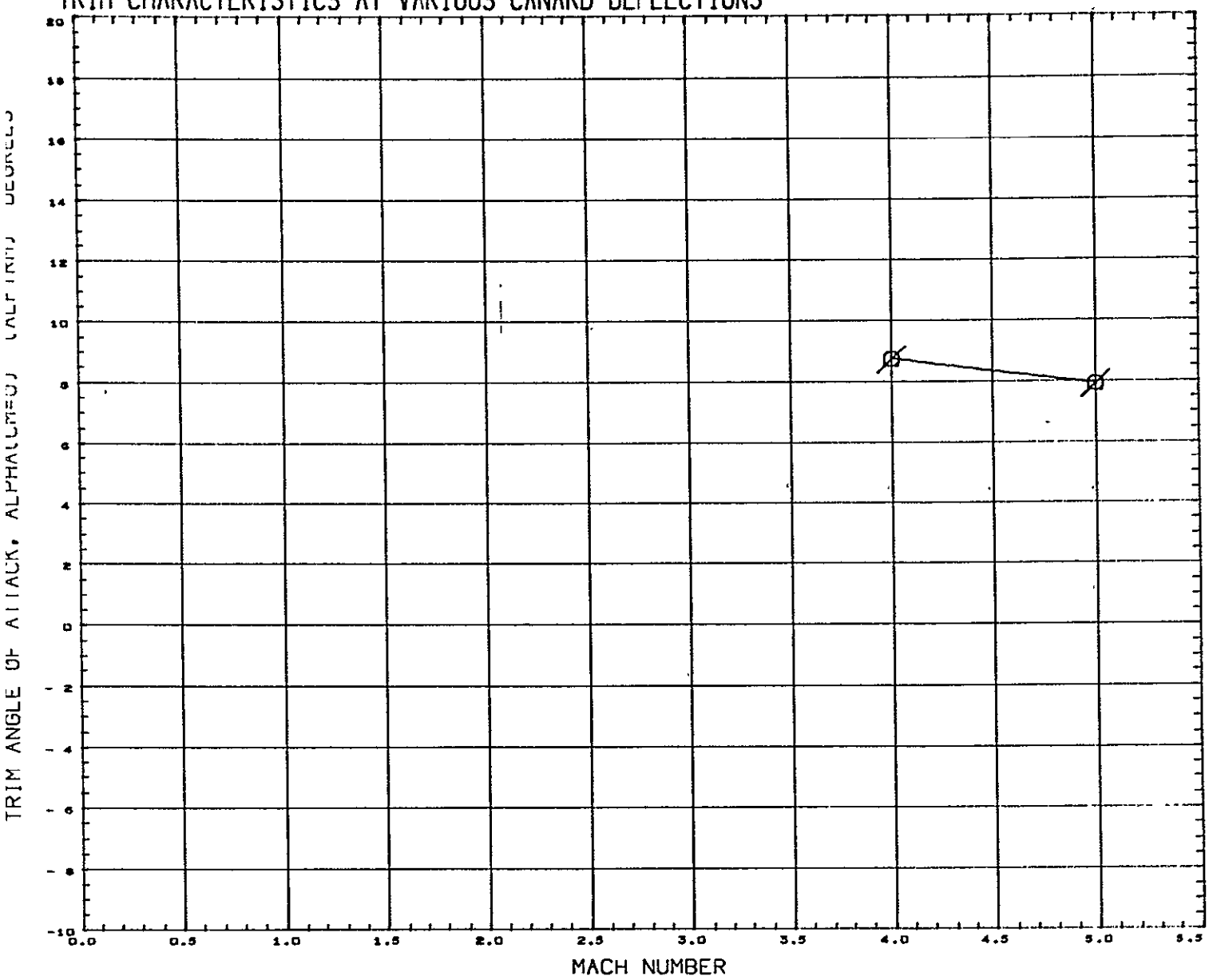
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 45.000
DCR	- 45.000	ELEVON	0.000
CANARD	- 45.000	AILRON	0.000

DATA HIST. CODE MVR*E1F

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

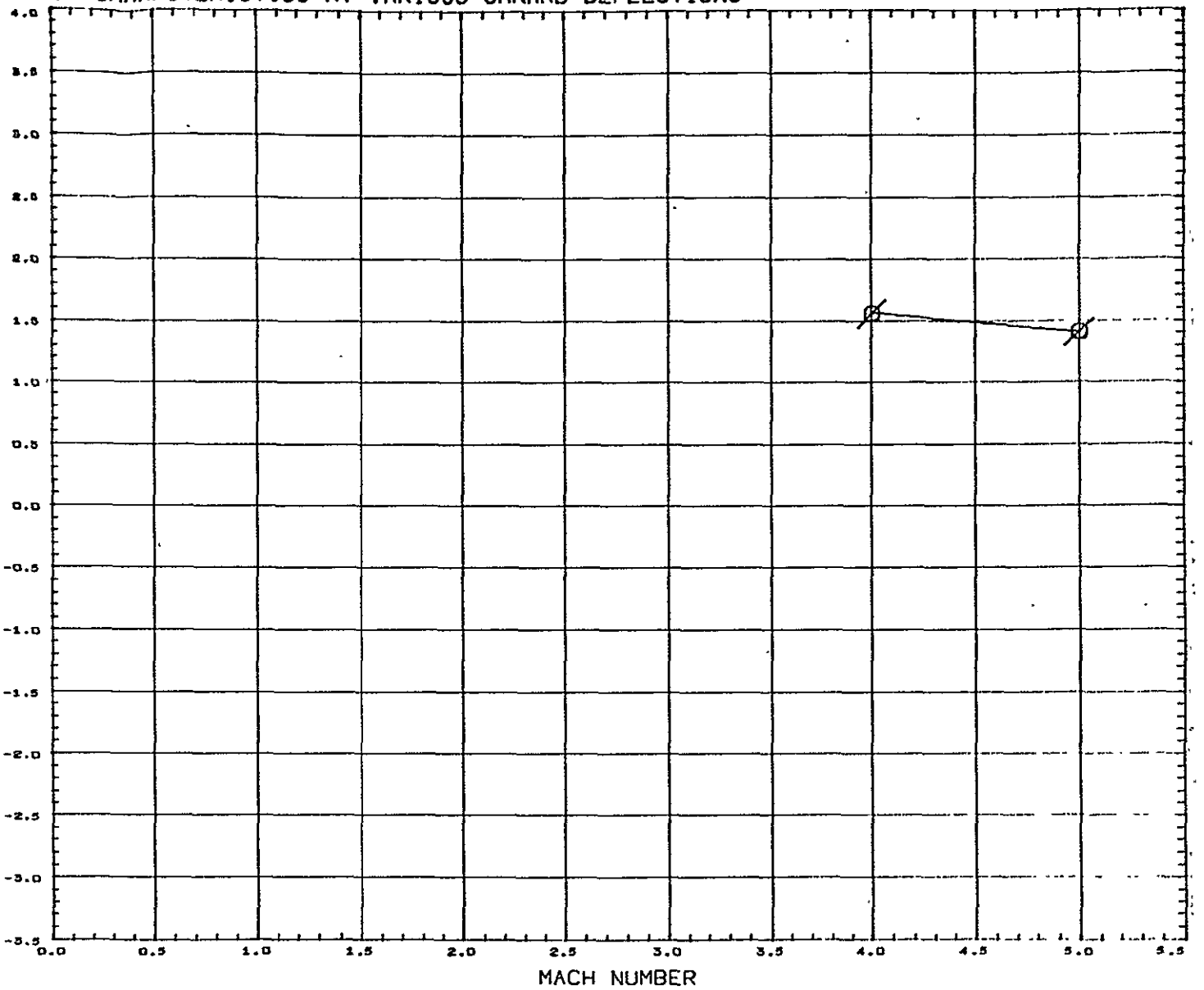
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

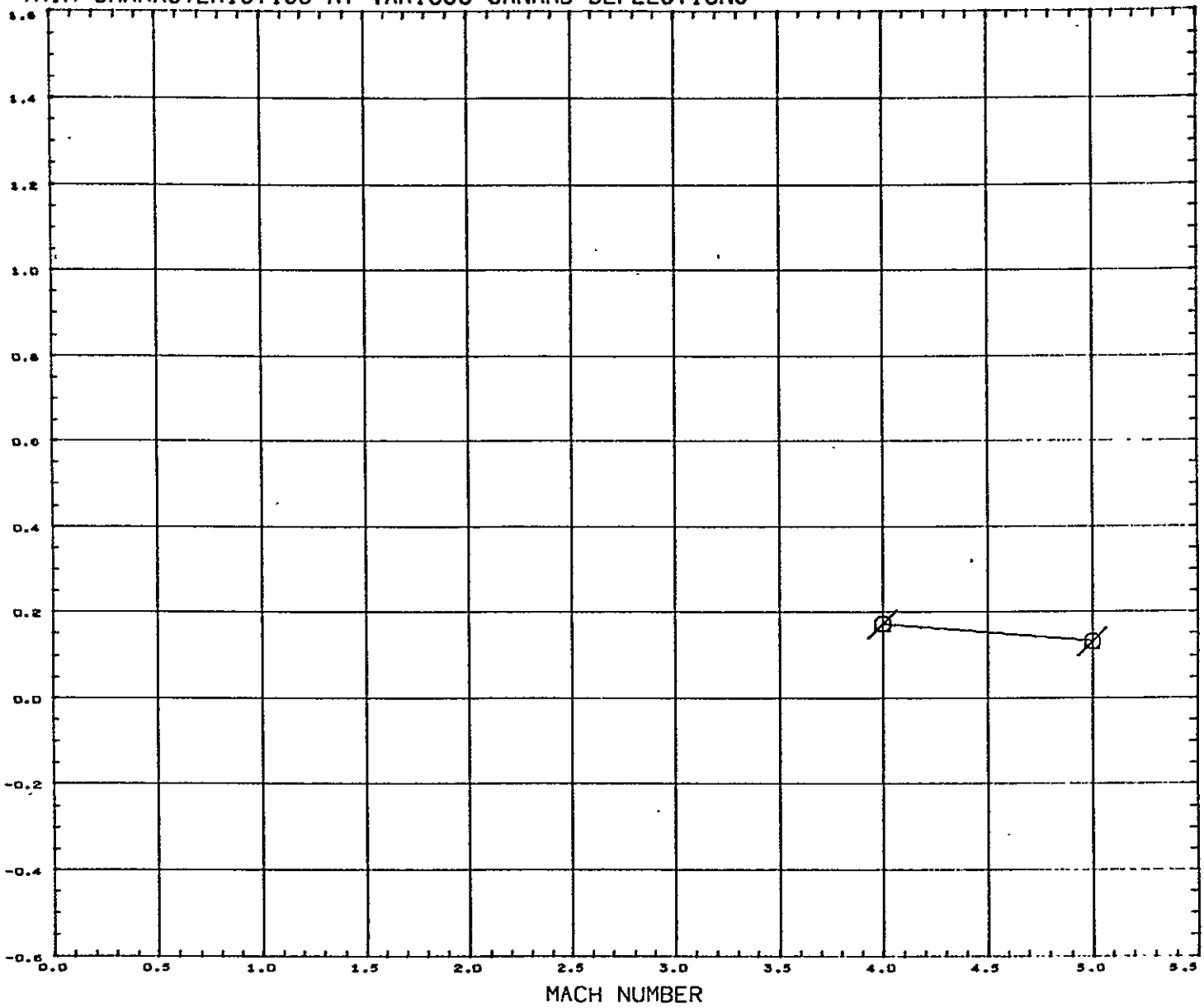
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP'	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

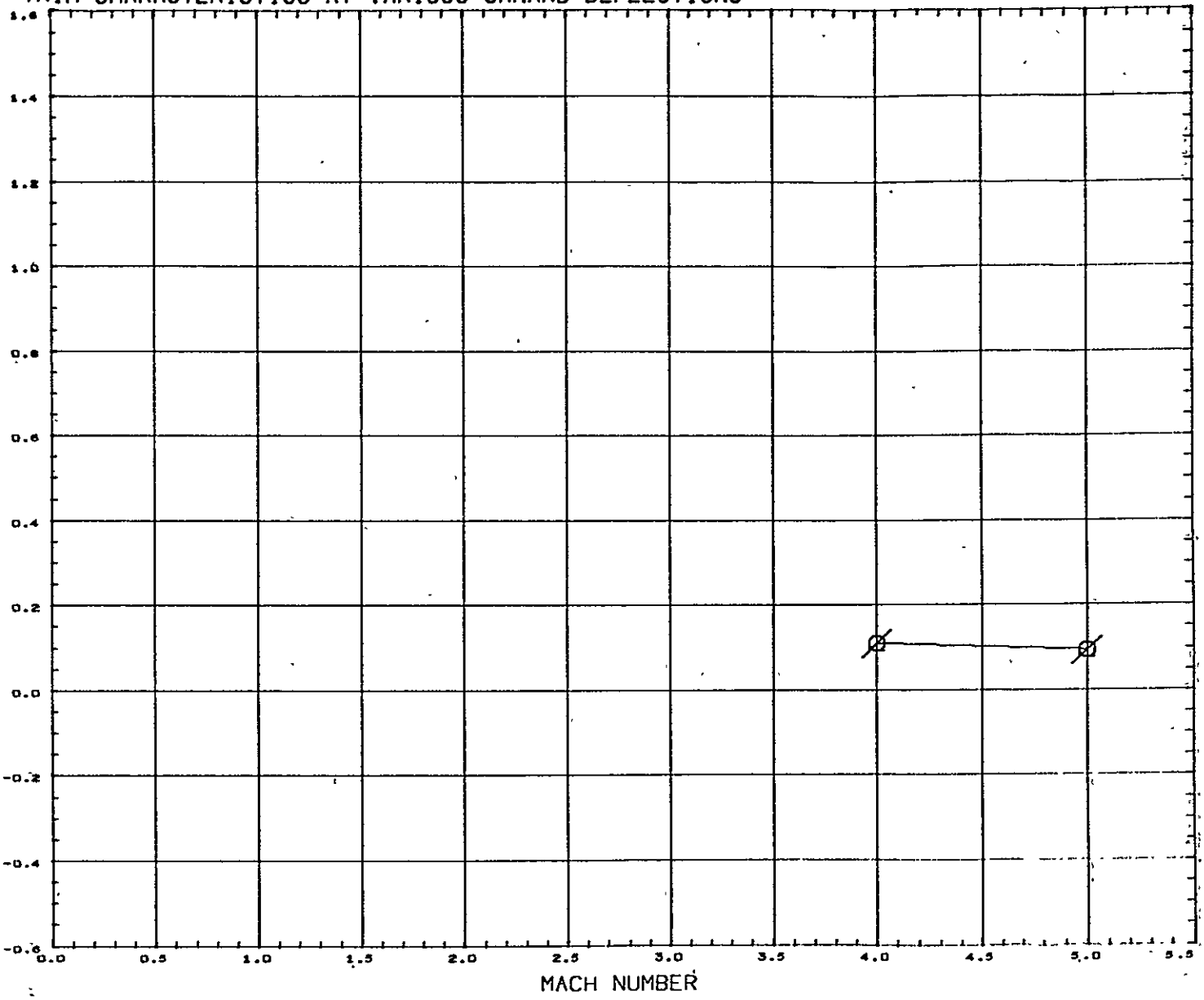
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE HVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

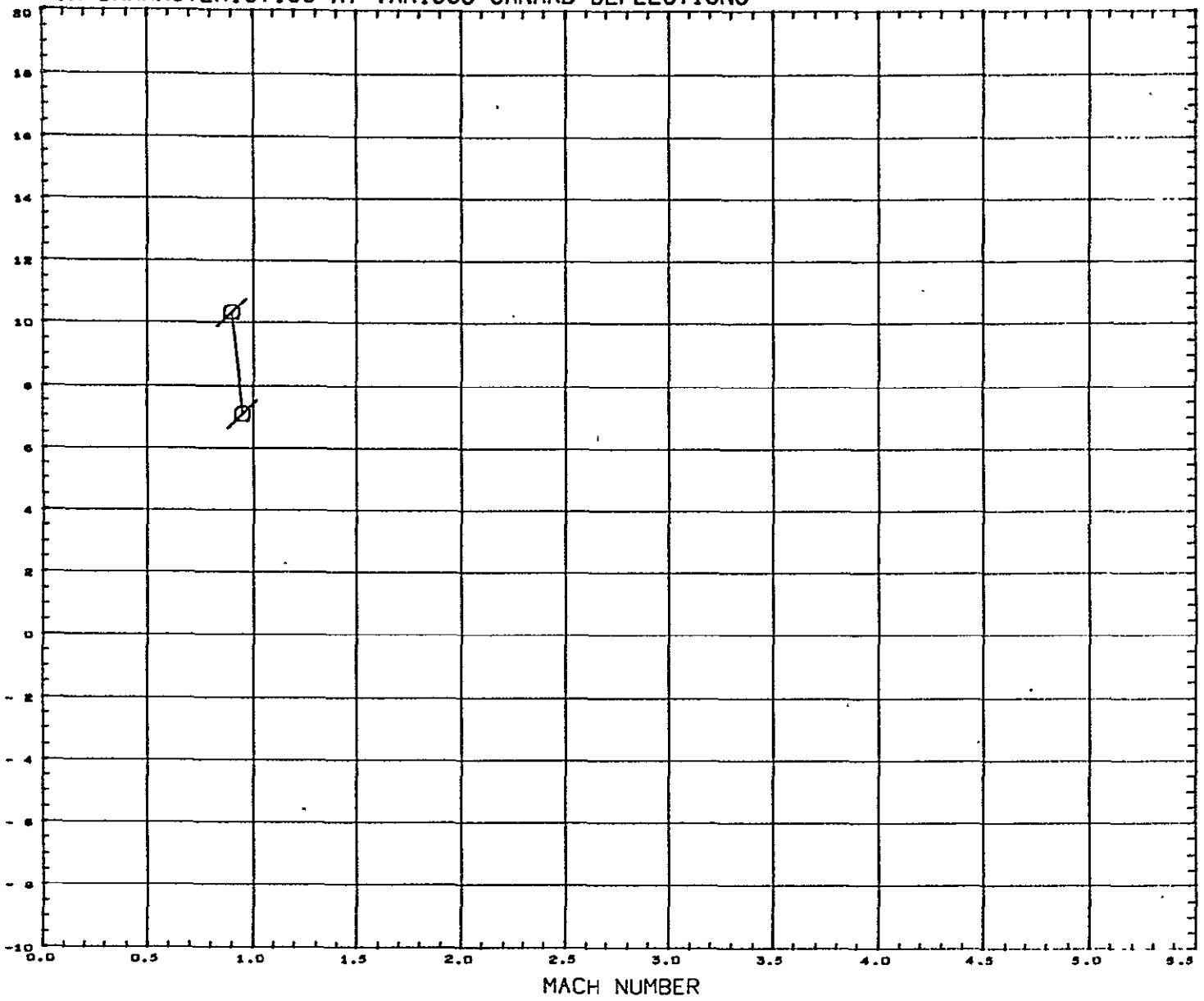
BETA	0.000	DEL	0.000
DER	0.000	DCL	- 30.000
DCR	30.000	ELEVON	0.000
CANARD	- 30.000	AILRON	0.000

DATA HIST. CODE MVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

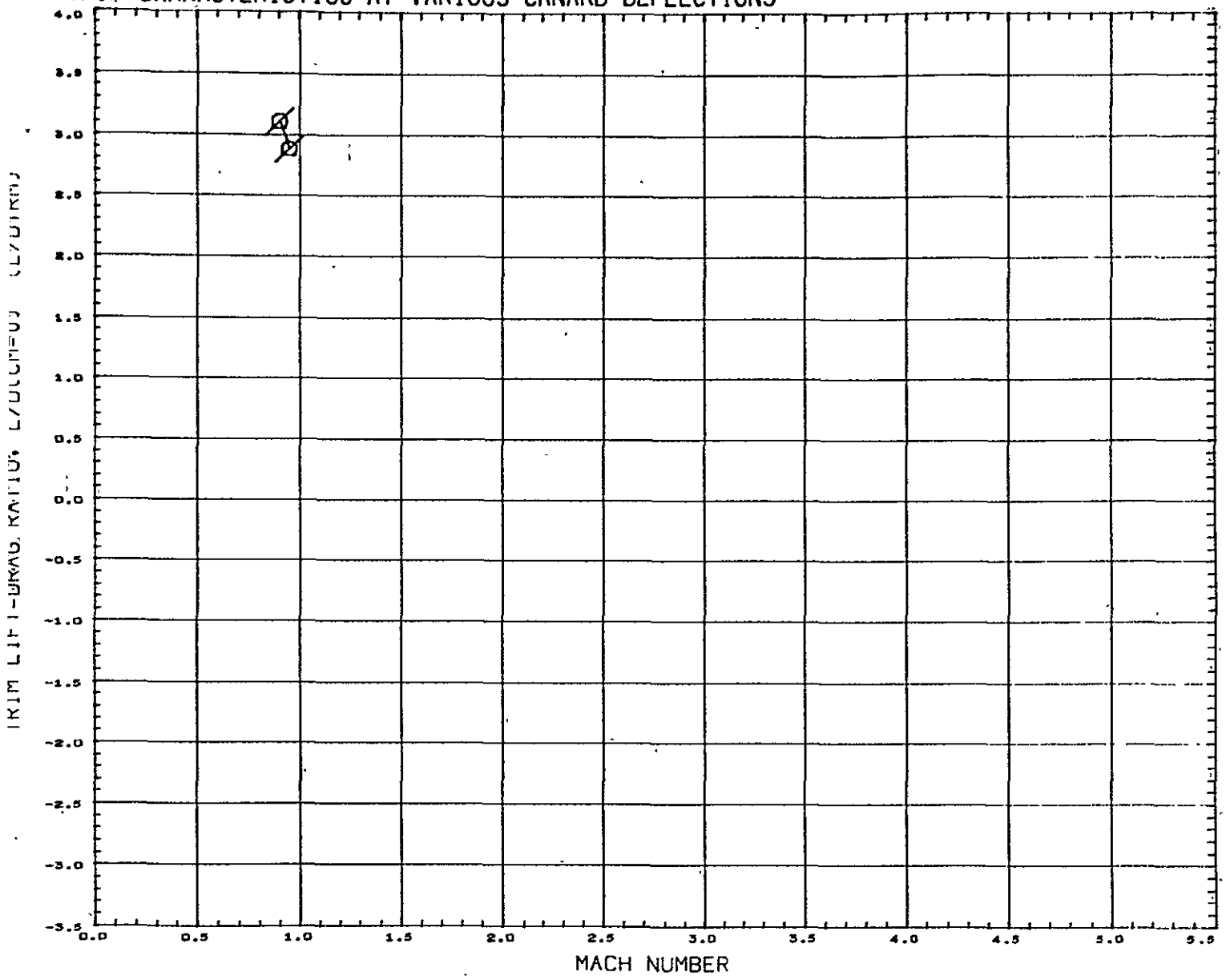
BETA	0.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR#E#GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

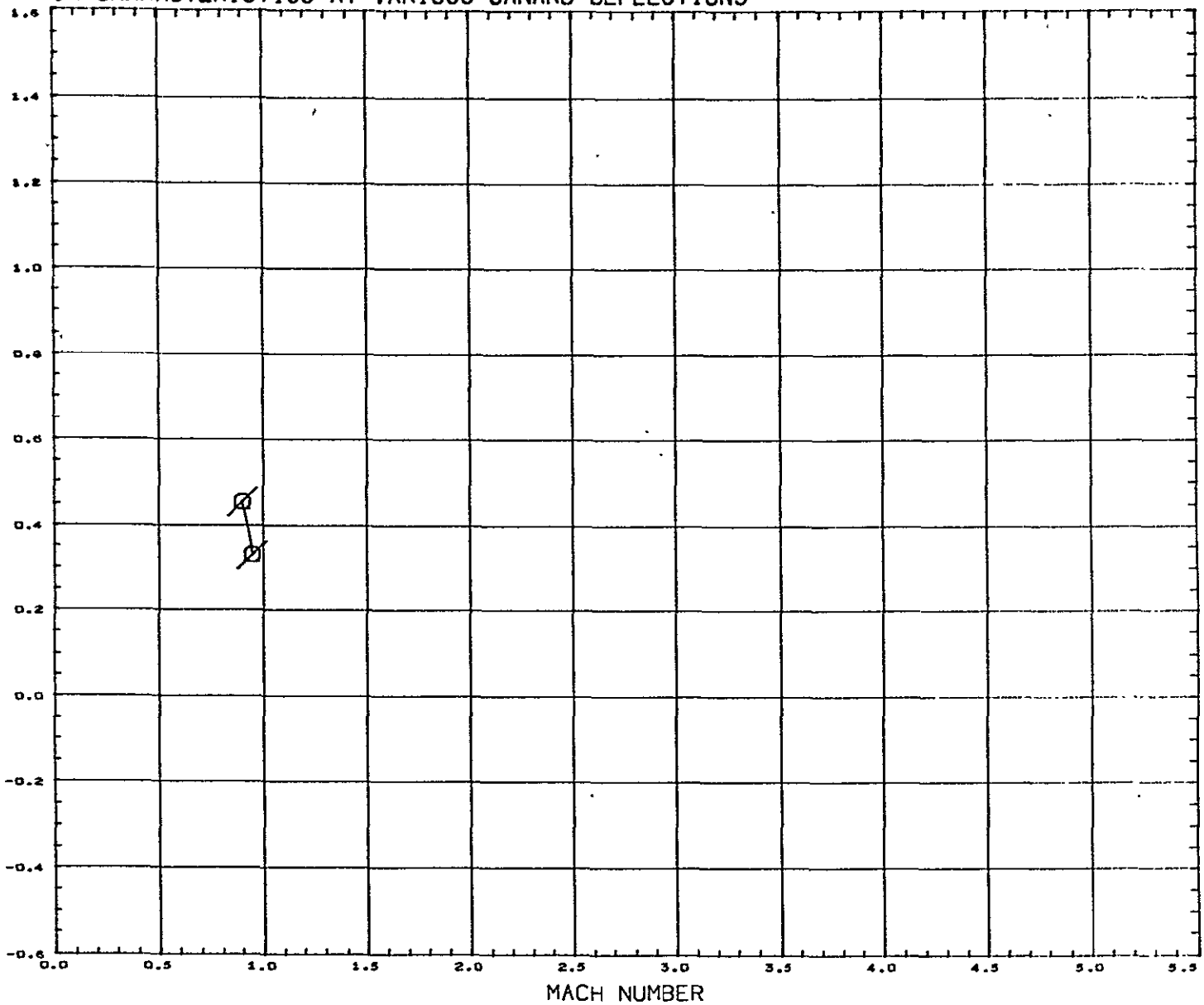
BETA	0.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

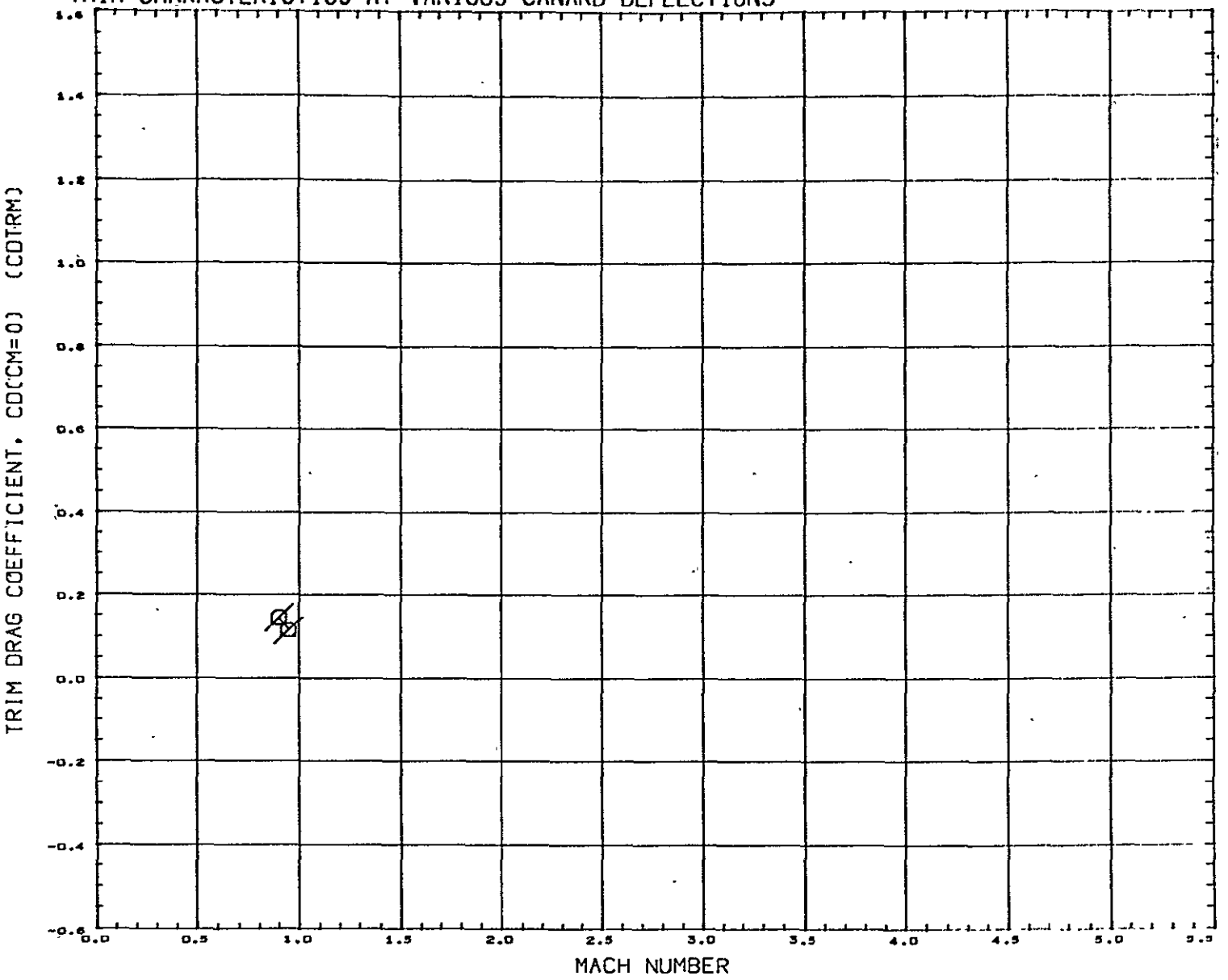
BETA	0.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

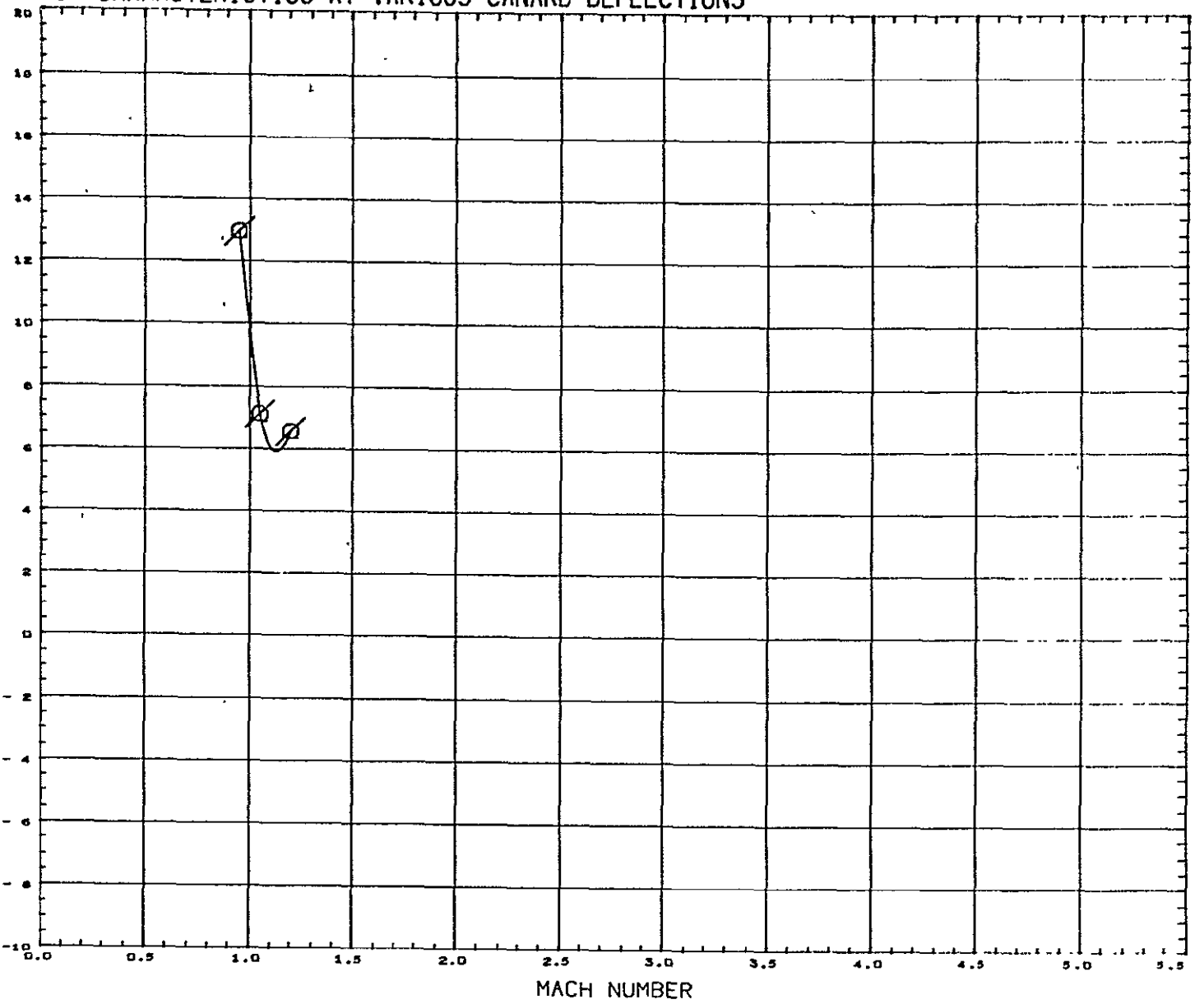
BETA	0.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*E*G1F

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

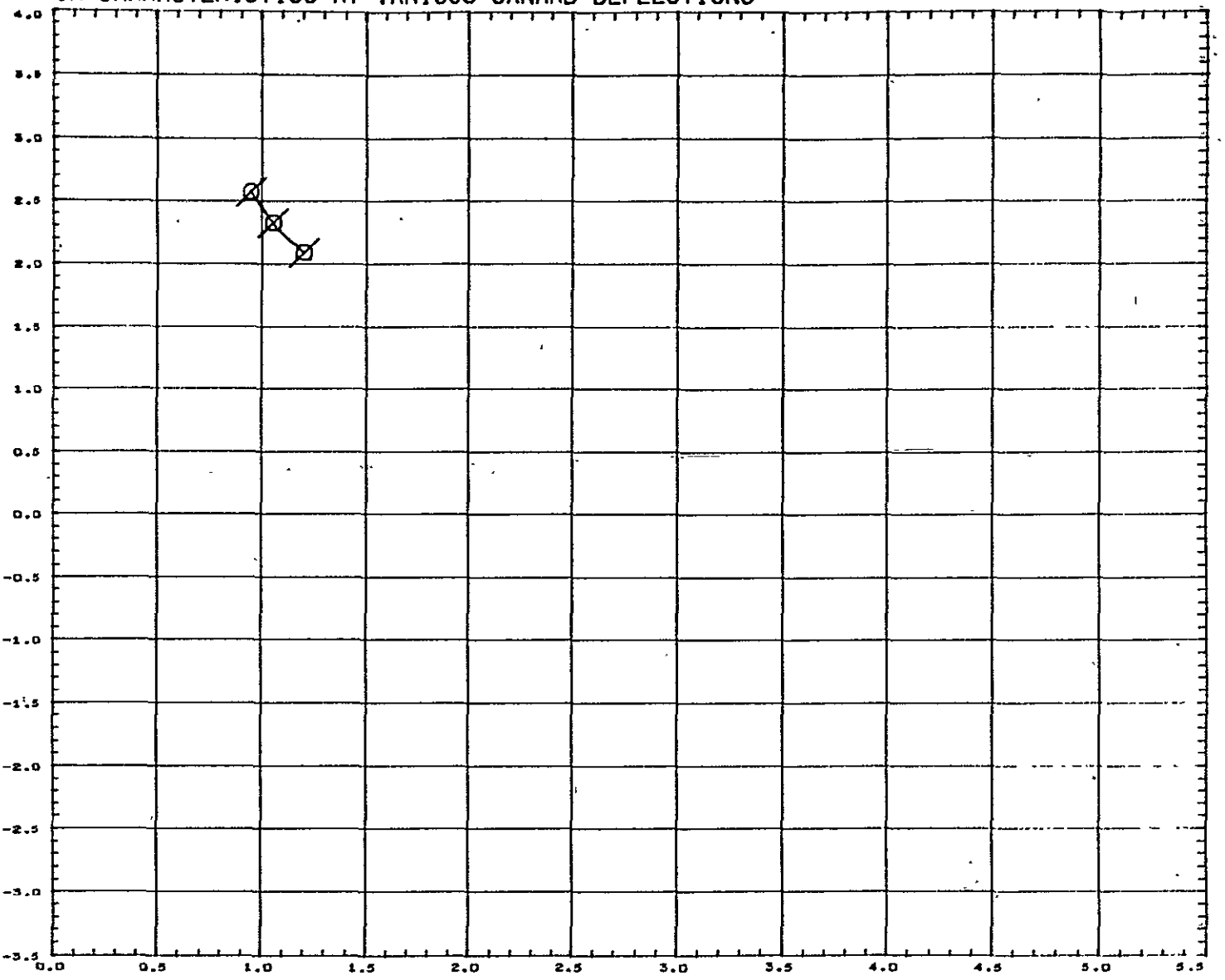
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

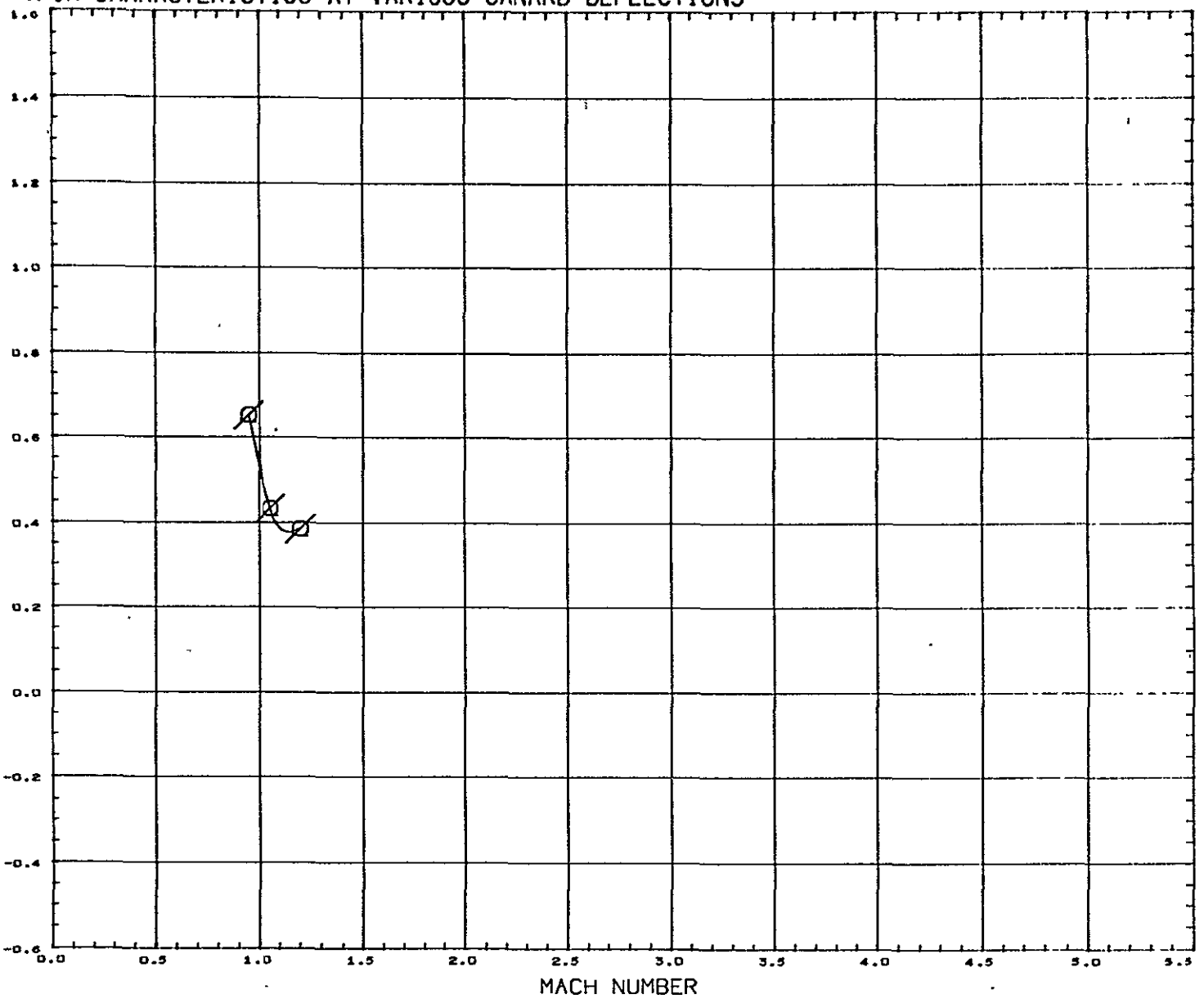
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR*E*GIF

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

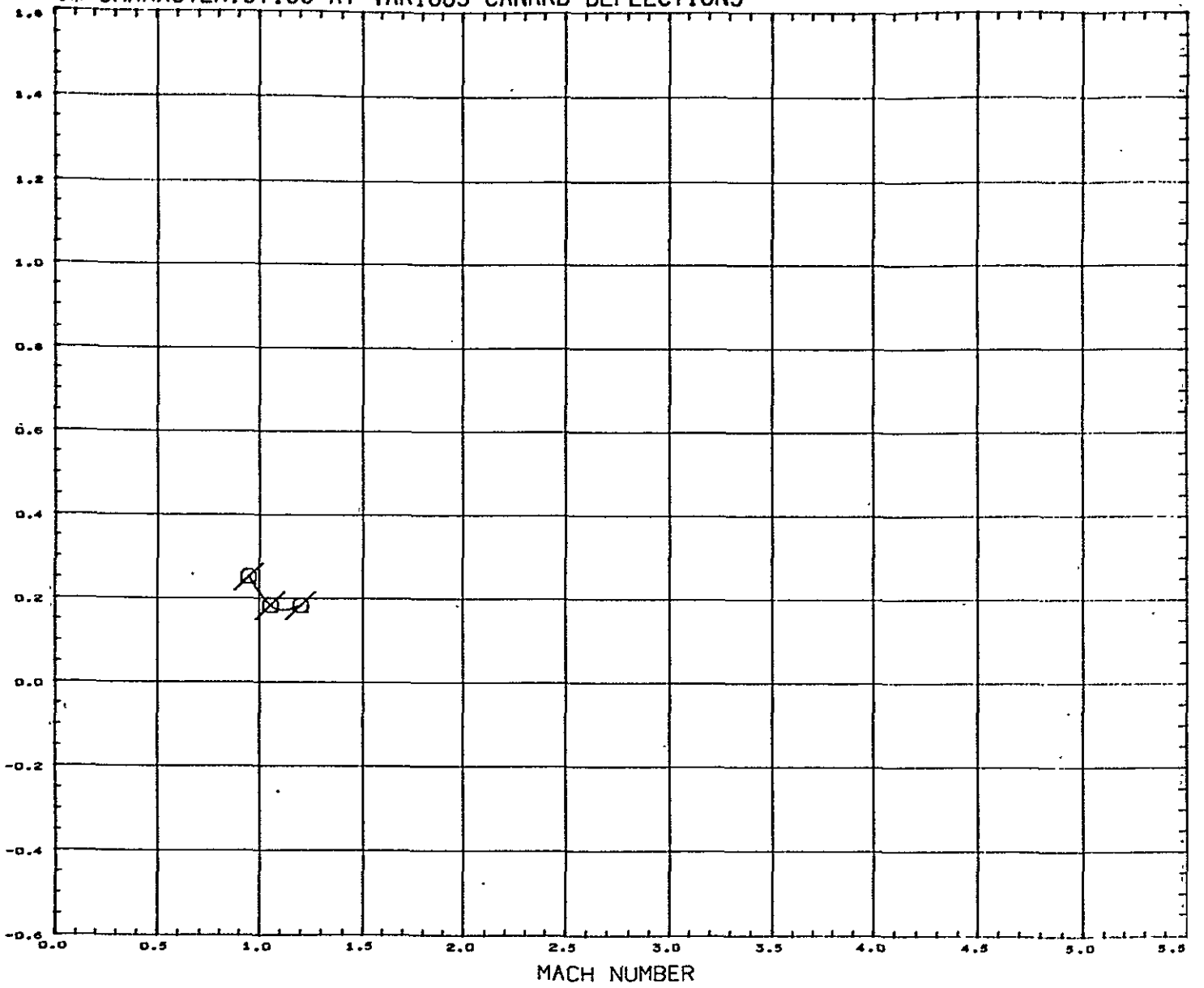
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR*E*G1F

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

TRIM CHARACTERISTICS AT VARIOUS CANARD DEFLECTIONS



PARAMETRIC VALUES

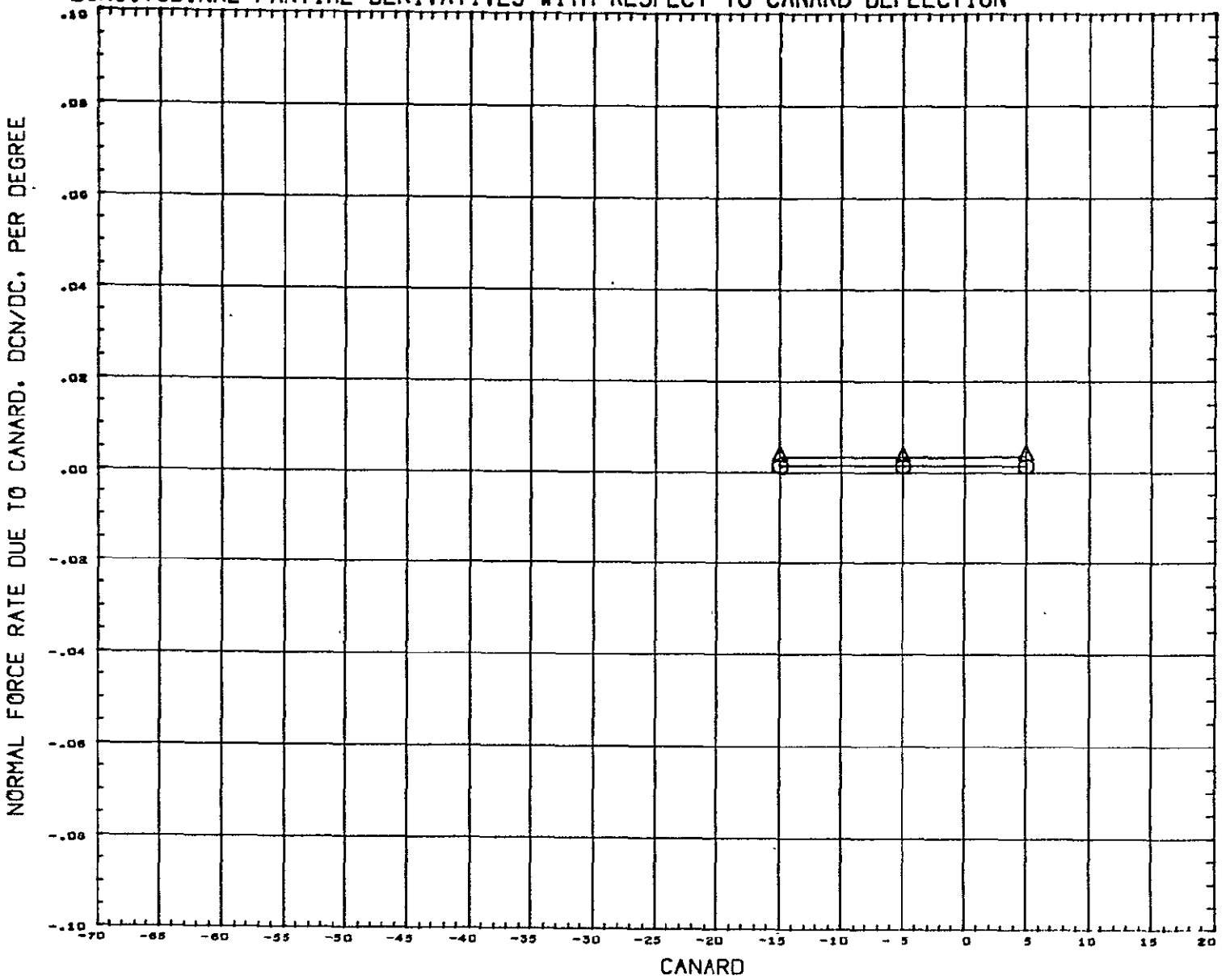
BETA	0.000	DEL	0.000
DER	0.000	DCL	15.000
DCR	15.000	ELEVON	0.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR4E4GIF

REFERENCE INFORMATION

SREF	15.6960	30.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
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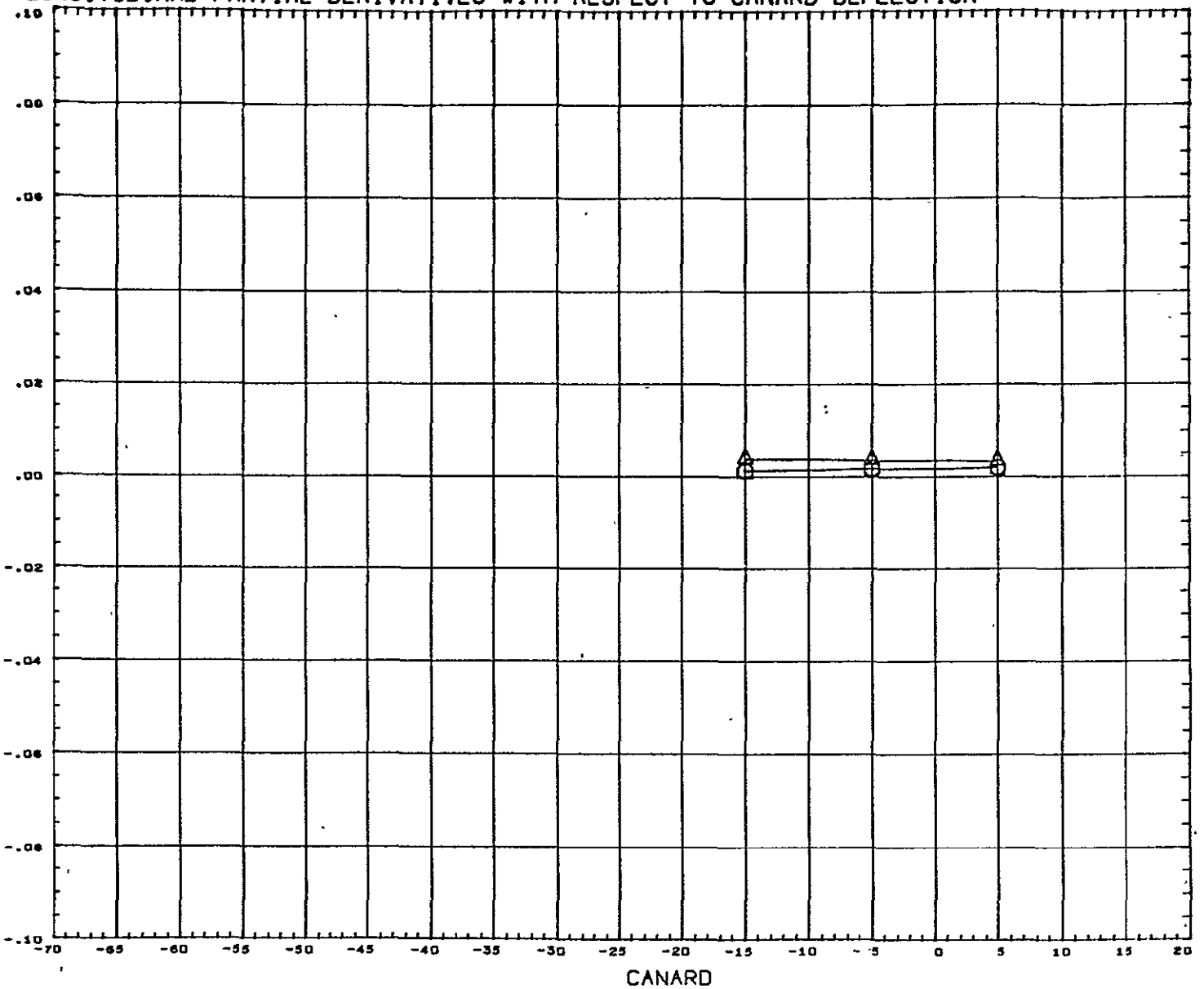
	0.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	5.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE MVR*EI*H*P

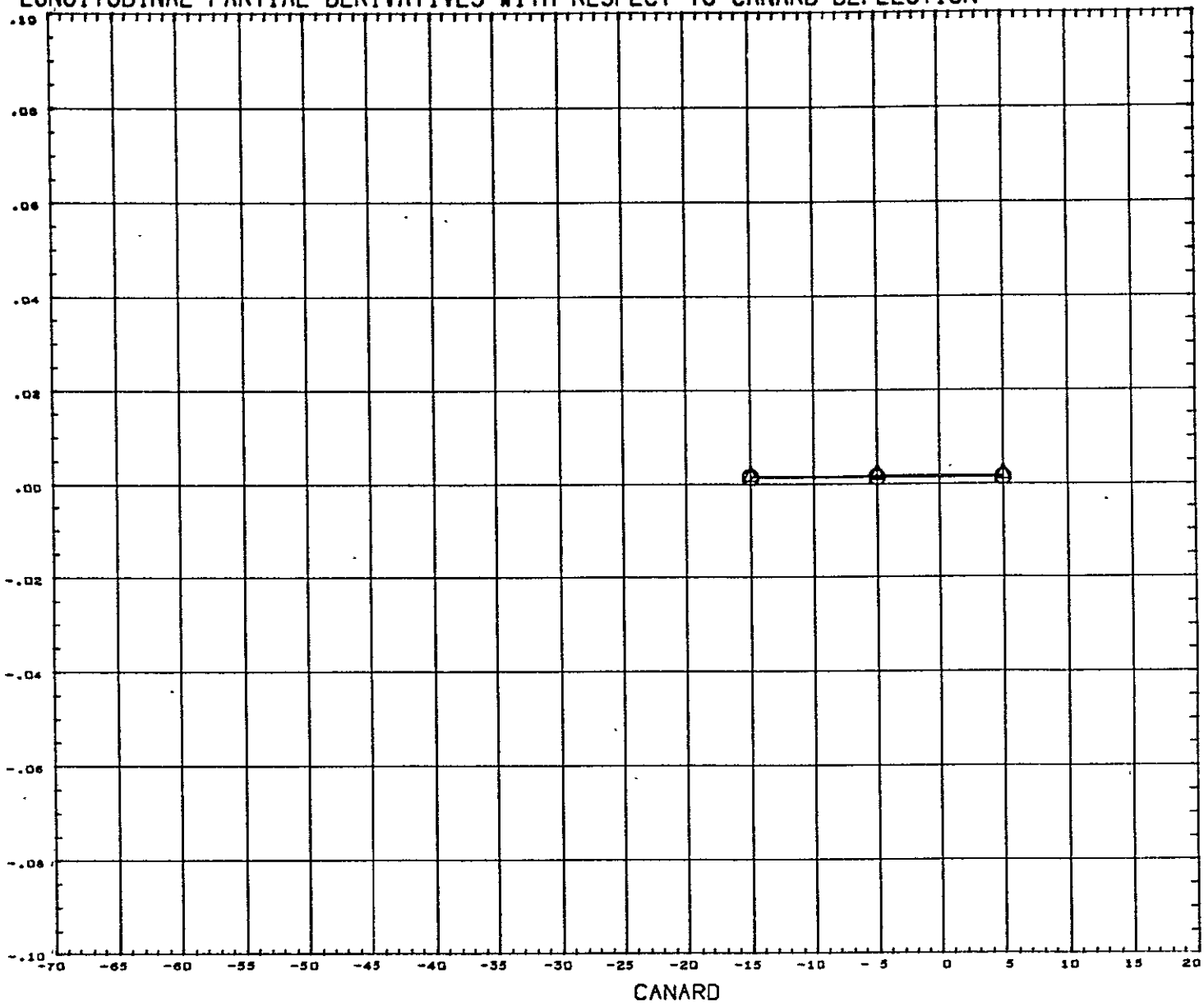
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	0.950	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE HVR*EI*H*P

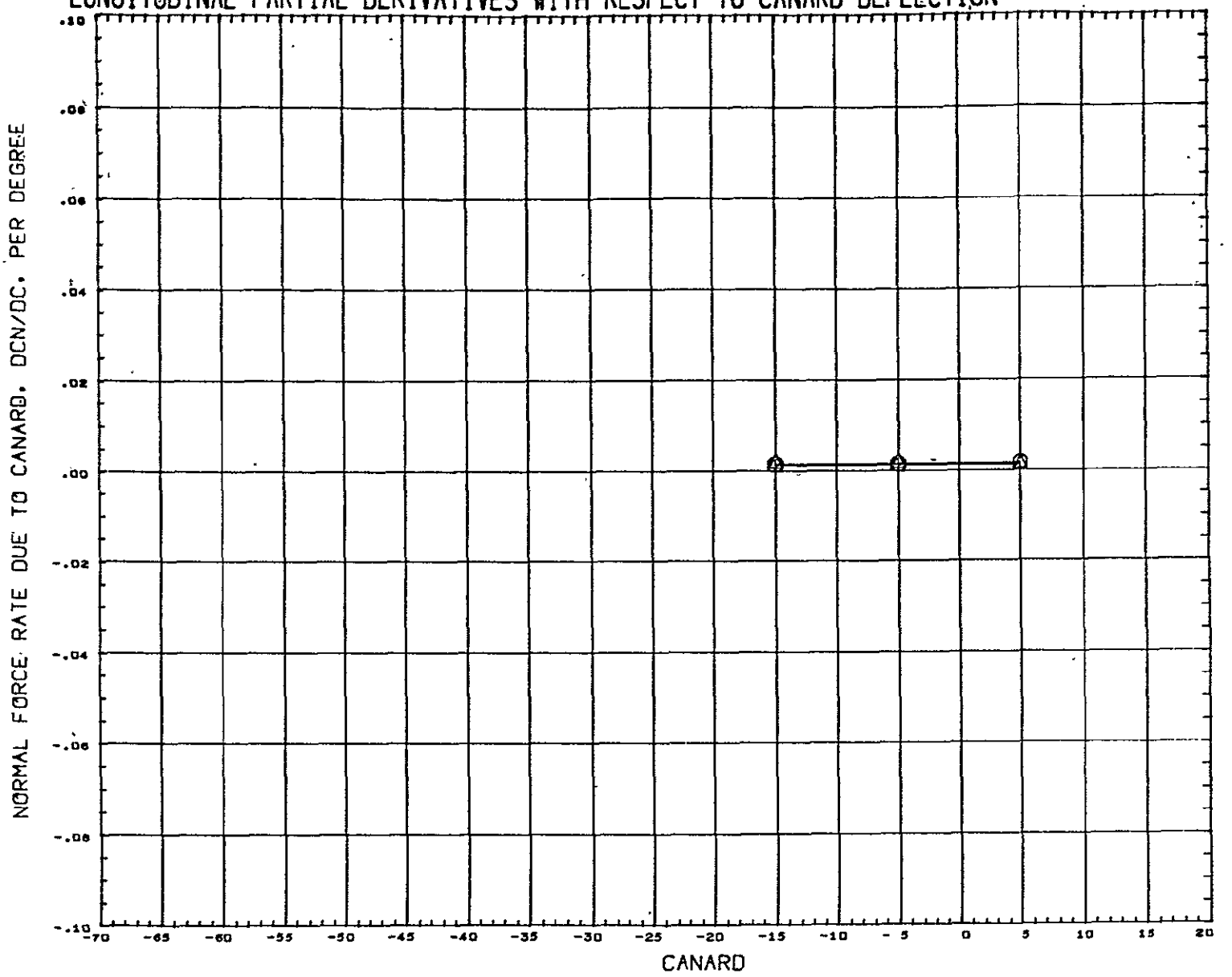
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
	10.000	MACH	1.050	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
	20.000	DEL	0.000	DER	0.000	O28109	- 15.000	O28110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	O28111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE MVR*EI*H*P

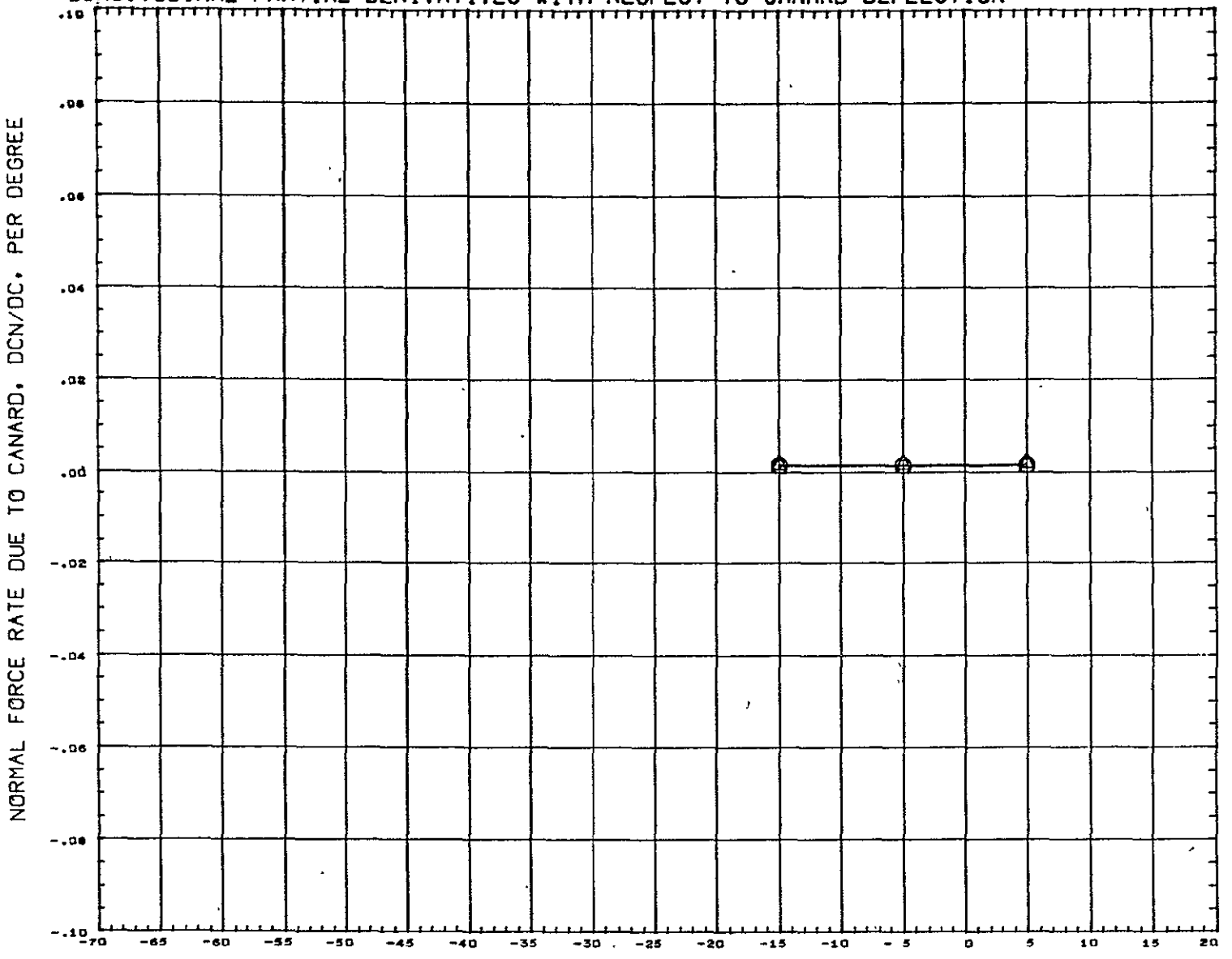
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	1.200	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE HVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	1.500	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
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										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
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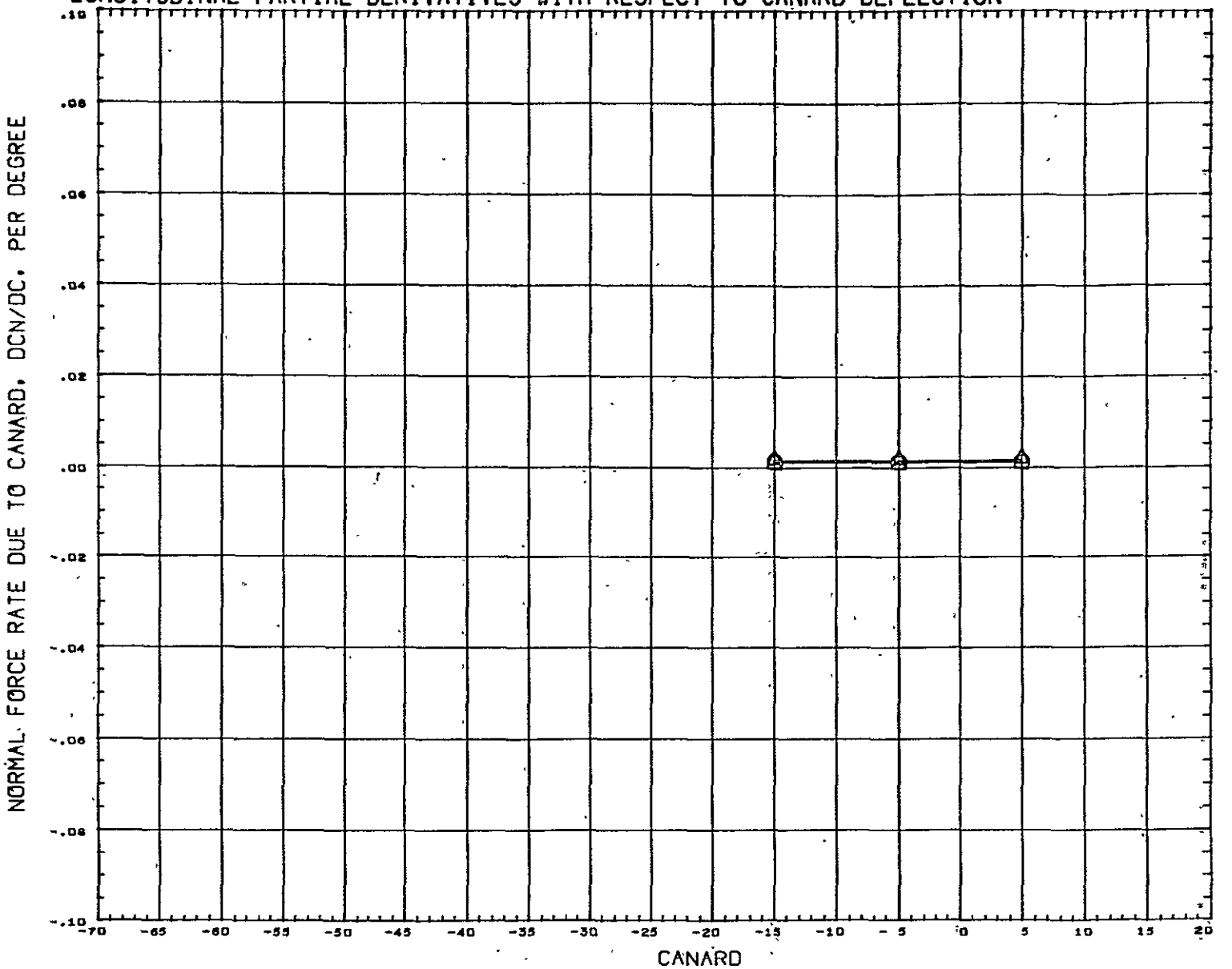
DATA HIST. CODE HVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
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△	20.000	DEL	0.000	DER	0.000	028109	-15.000	028110	-5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
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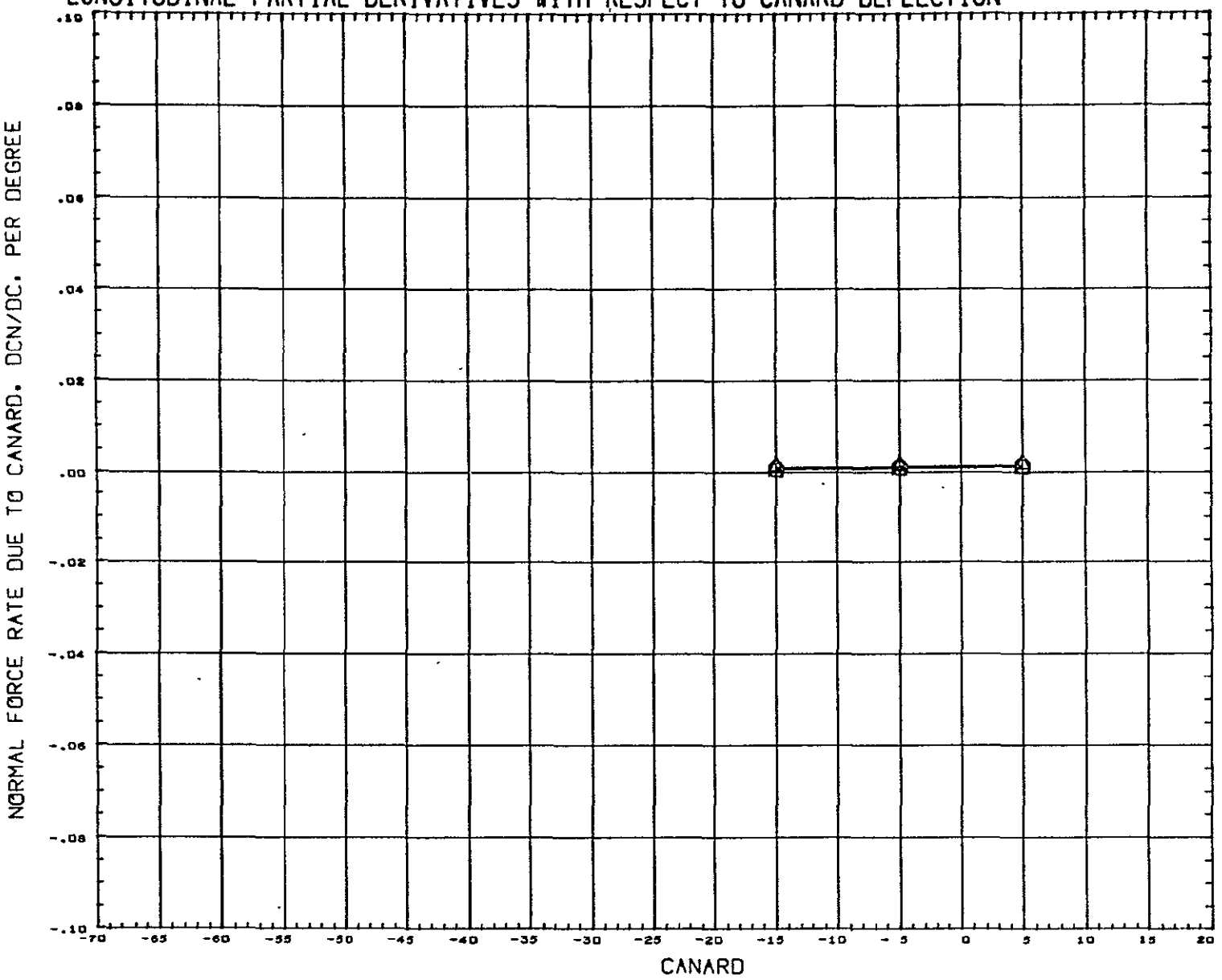
DATA HIST. CODE HVR*E1*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
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										XMRP	6.7100	IN.
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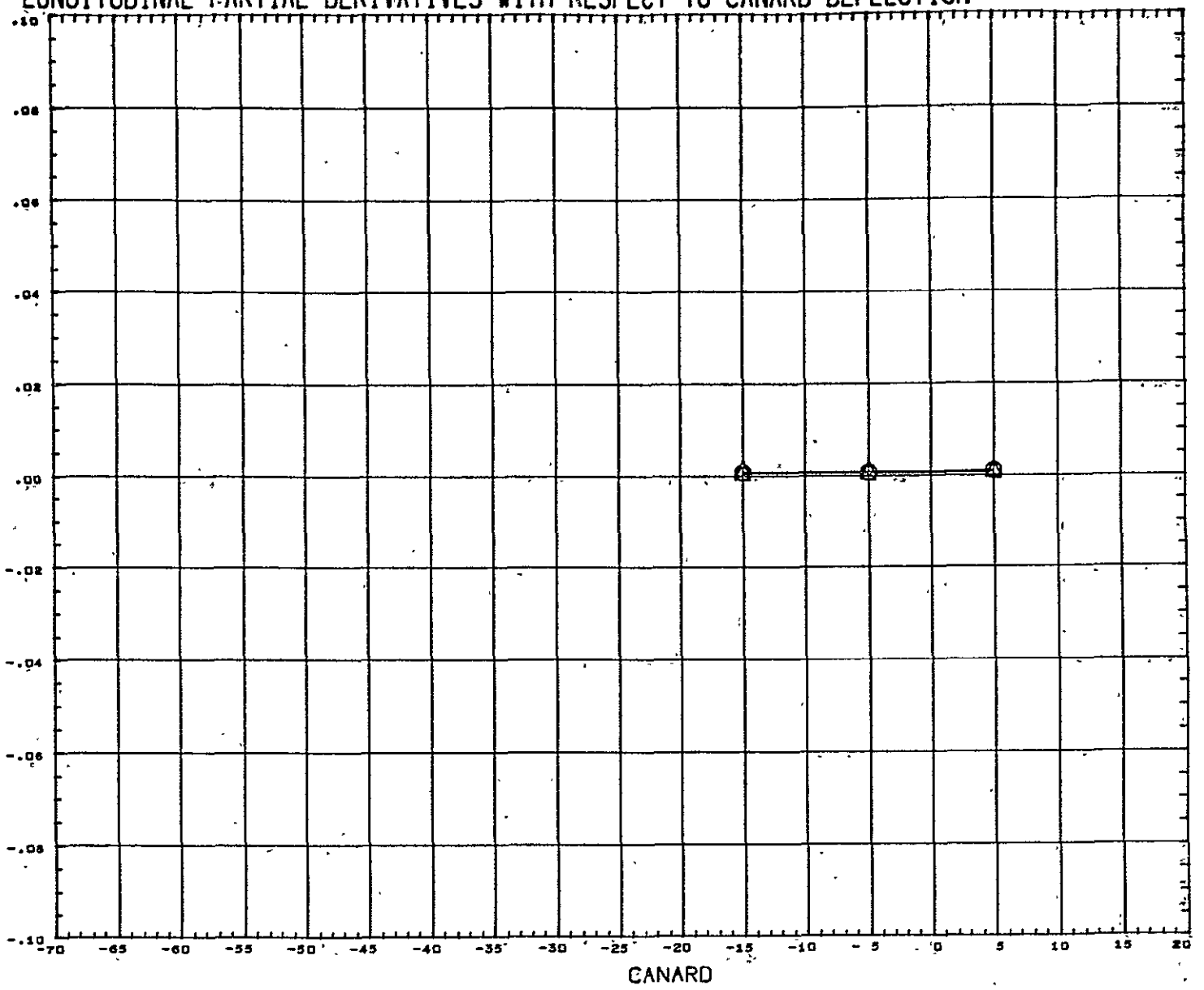
DATA HIST. CODE MVR*E1*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



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		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
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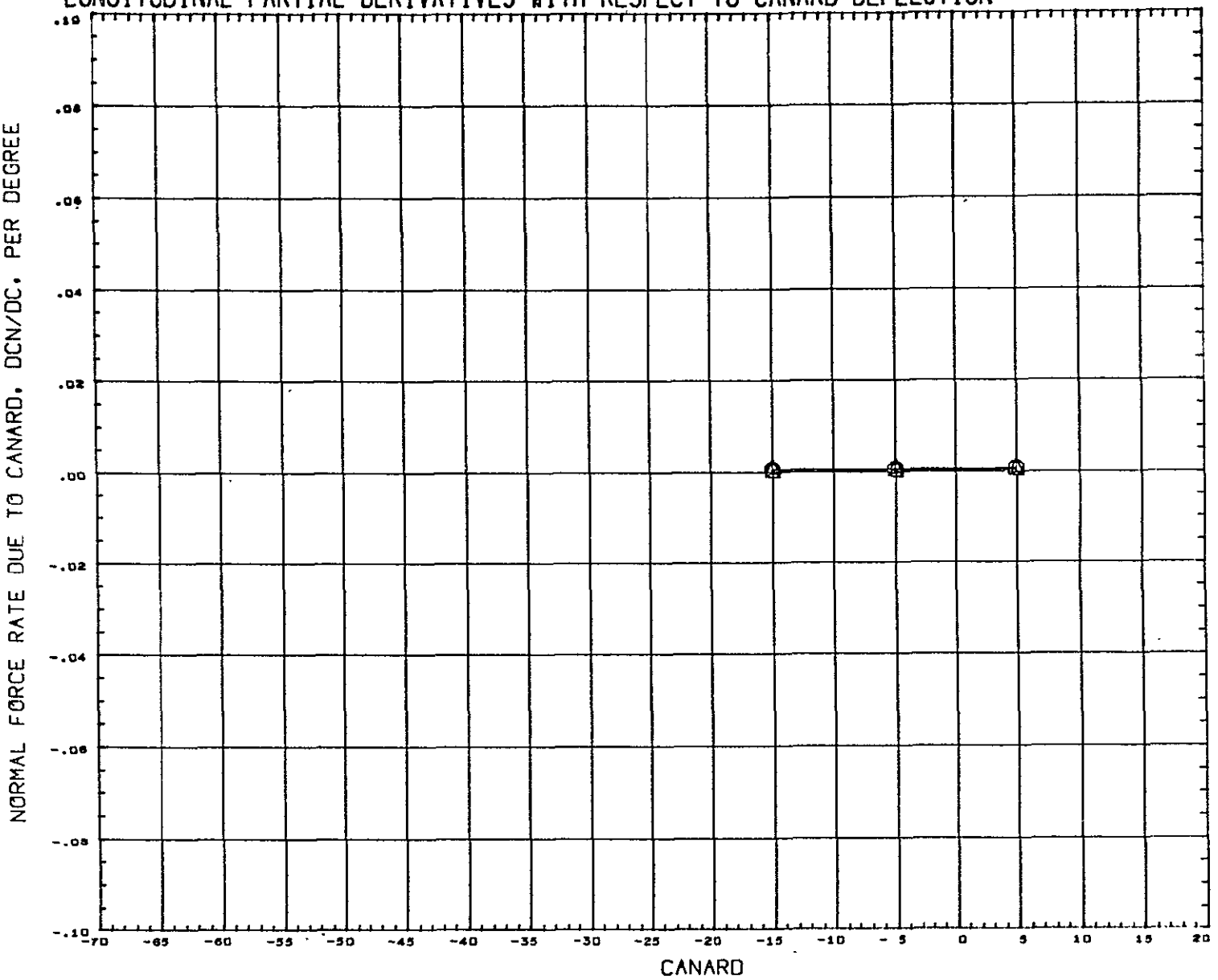
DATA HIST. CODE MVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



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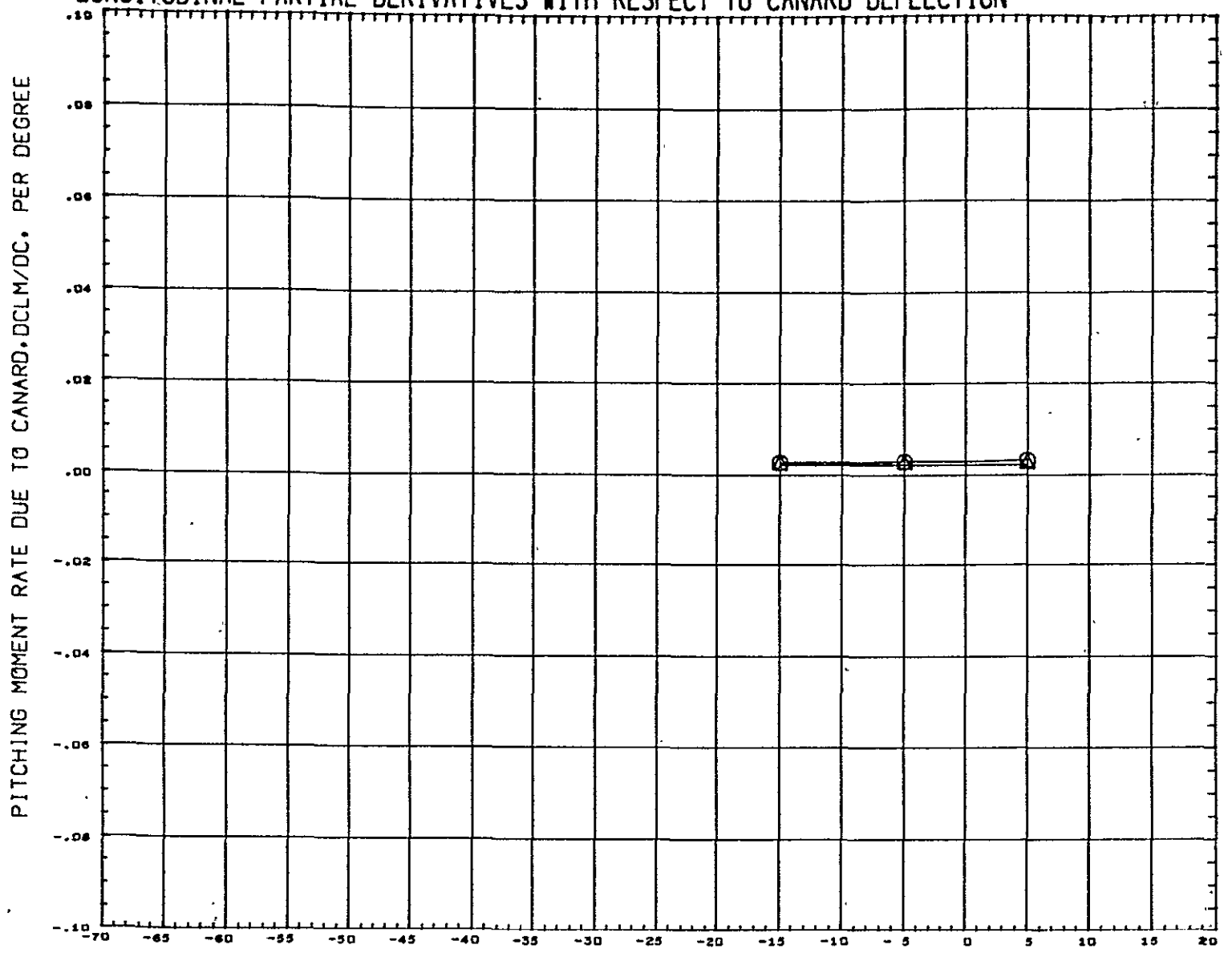
DATA HIST. CODE MVR*EI*H#P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
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										XMRP	6.7100	IN.
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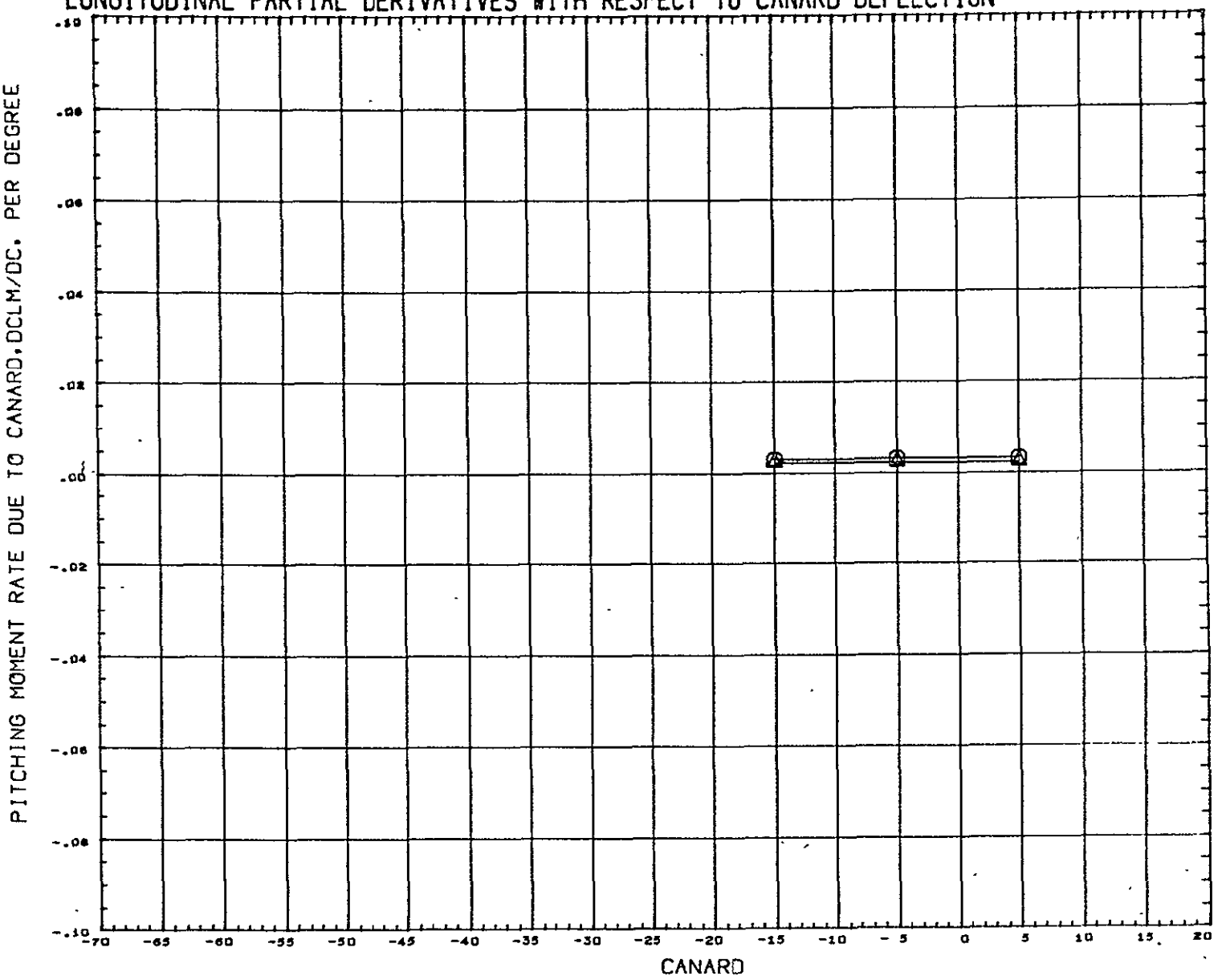
DATA HIST. CODE HVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
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										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
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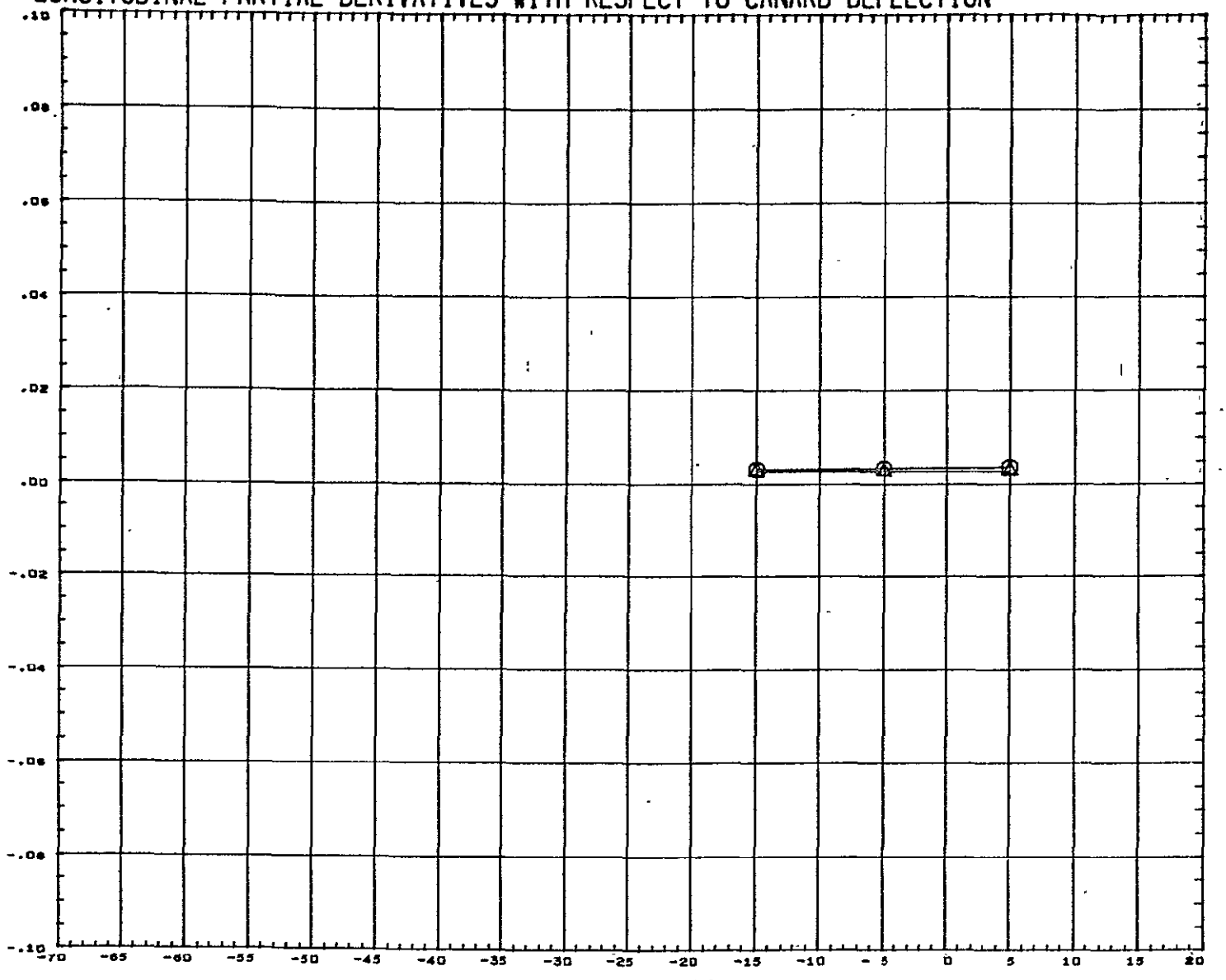
DATA HIST. CODE MVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
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		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
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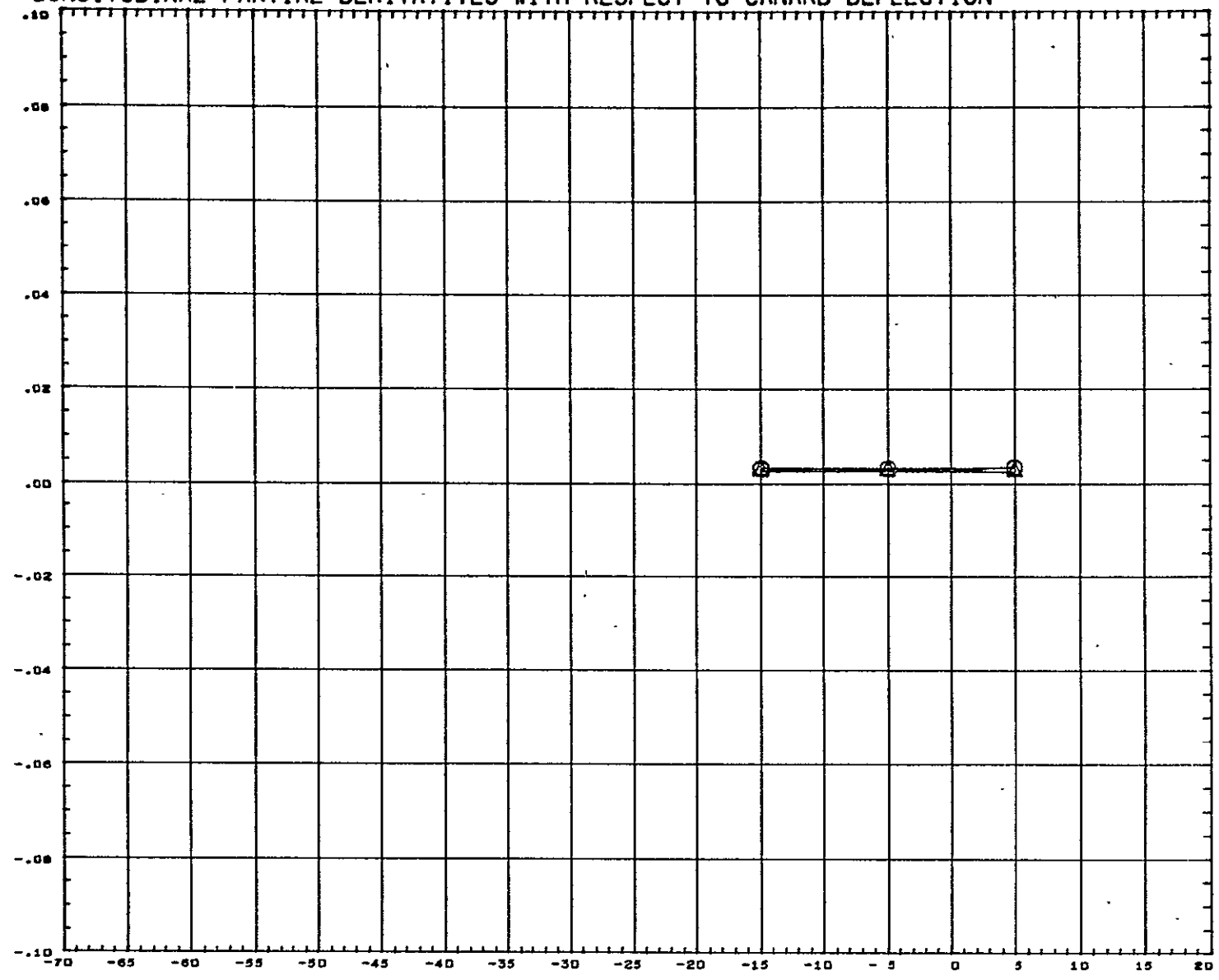
DATA HIST. CODE HVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



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										YMRP	0.0000	IN.
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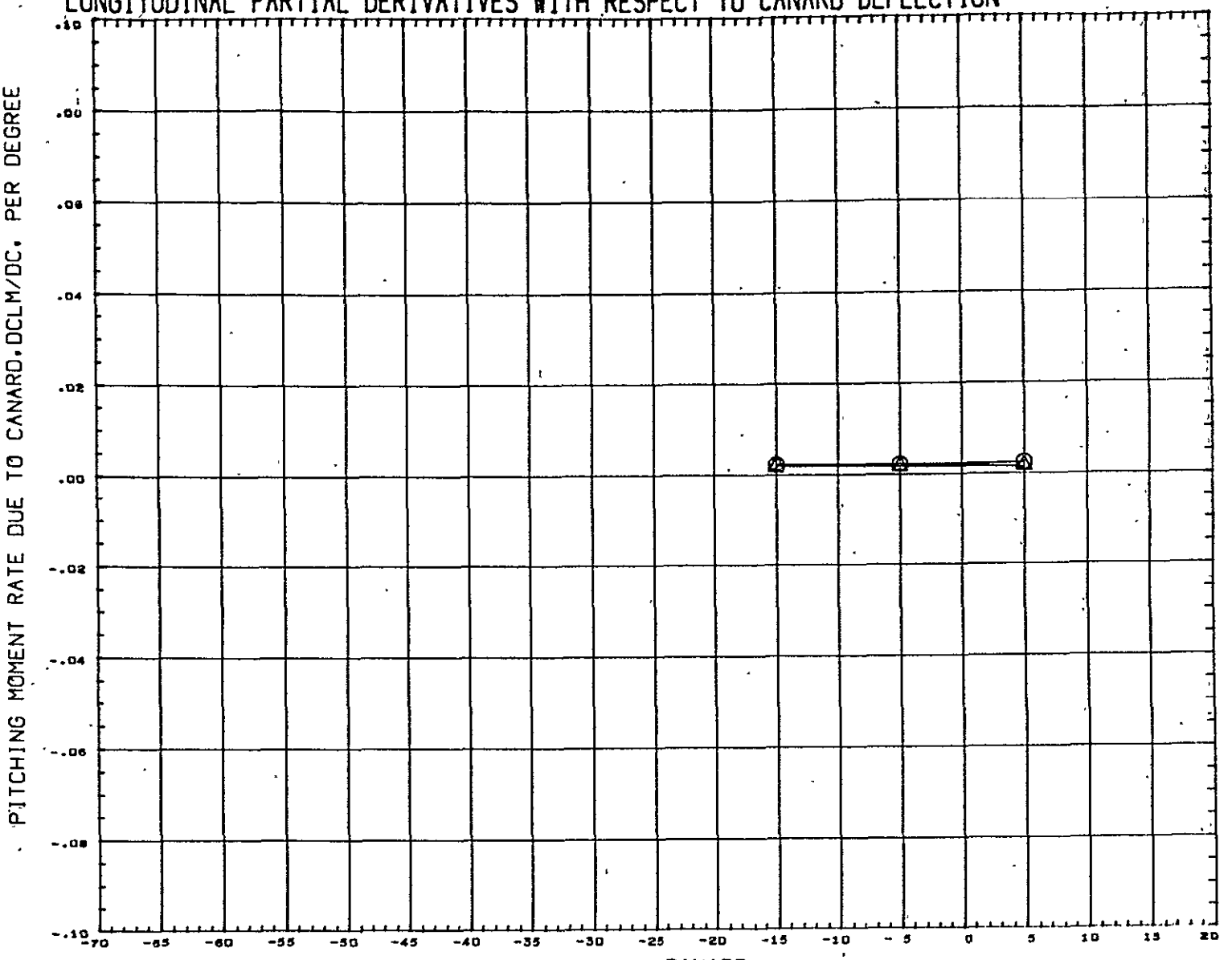
DATA HIST. CODE MVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
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		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
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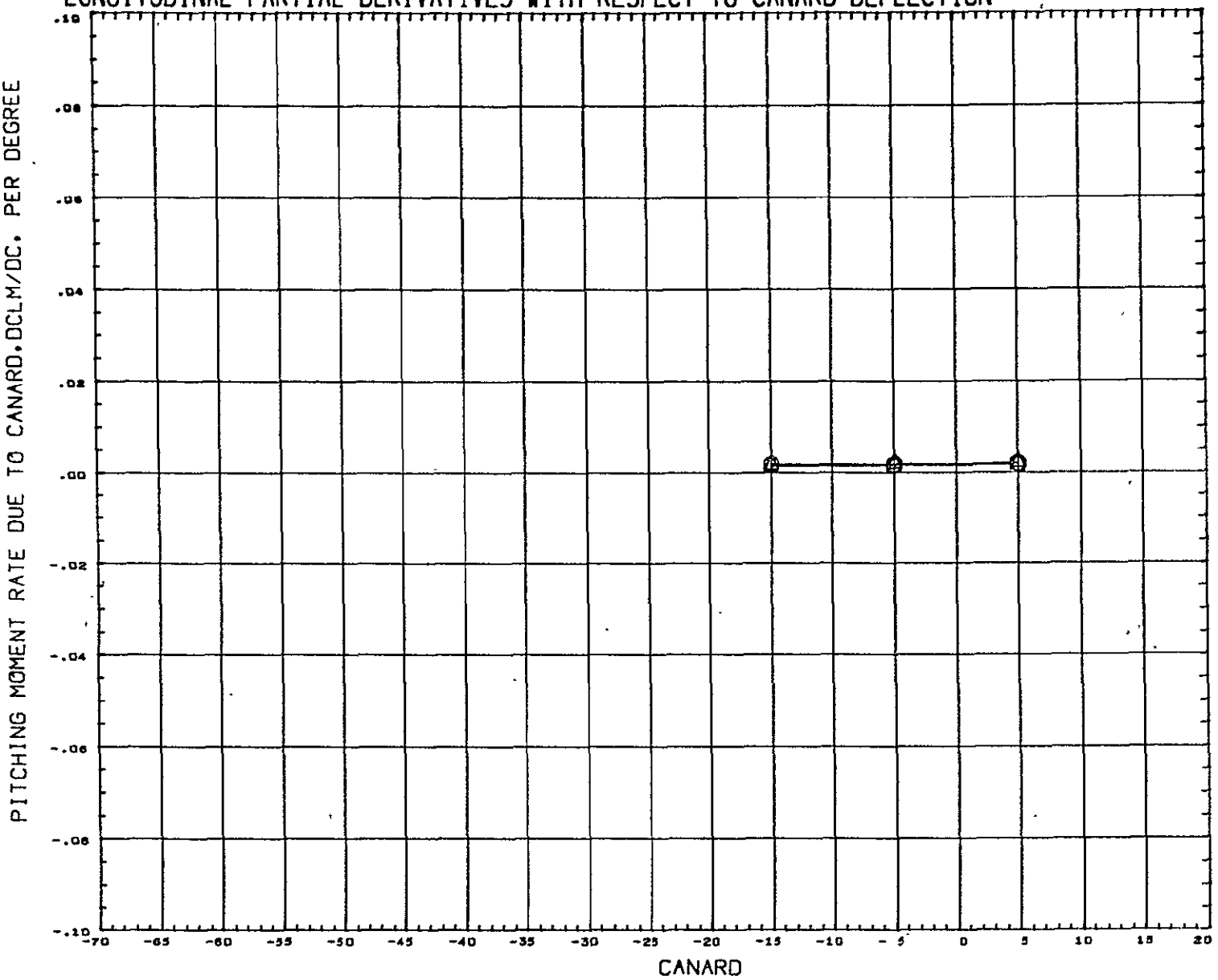
DATA HIST. CODE MVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
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										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
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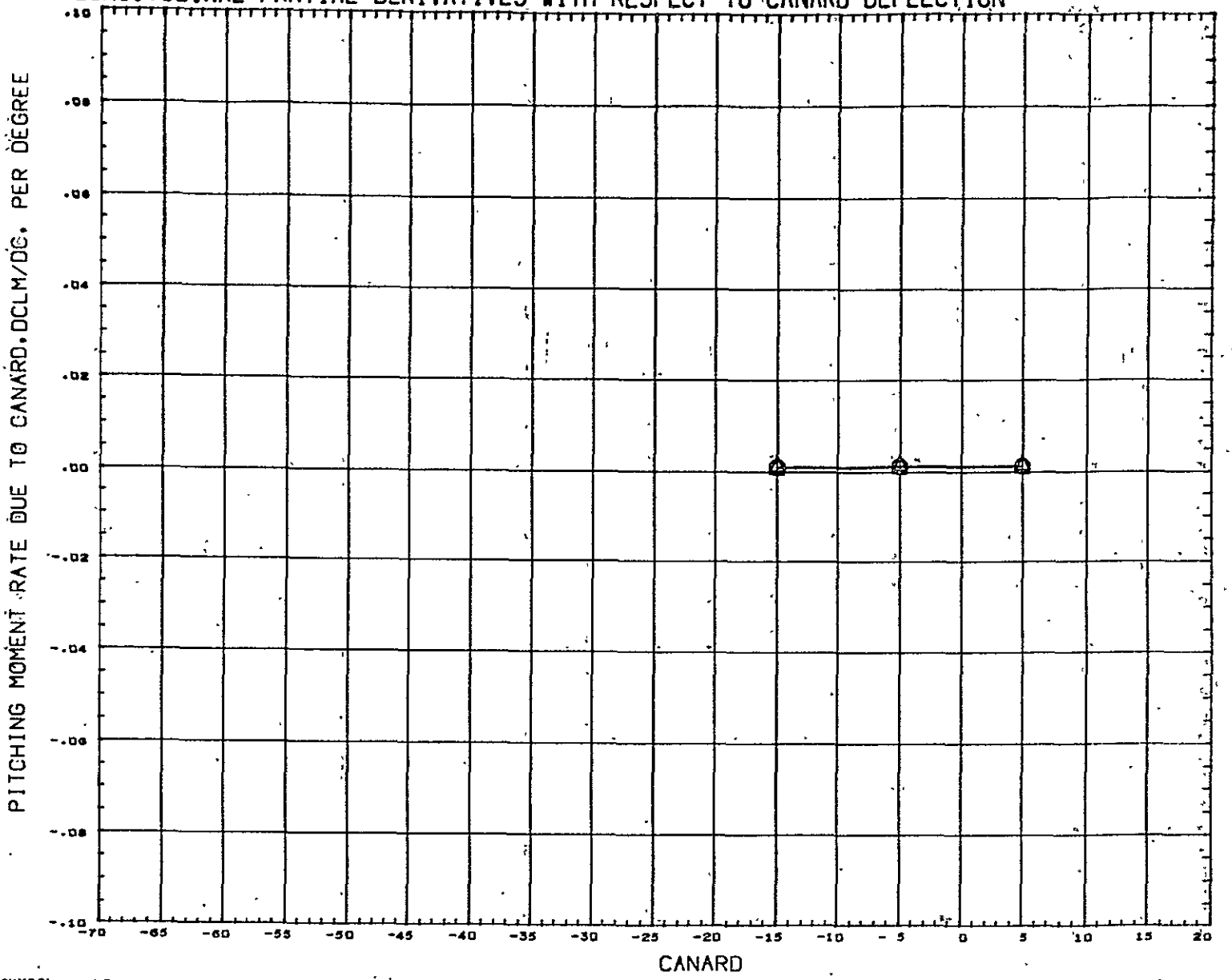
DATA HIST. CODE MVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
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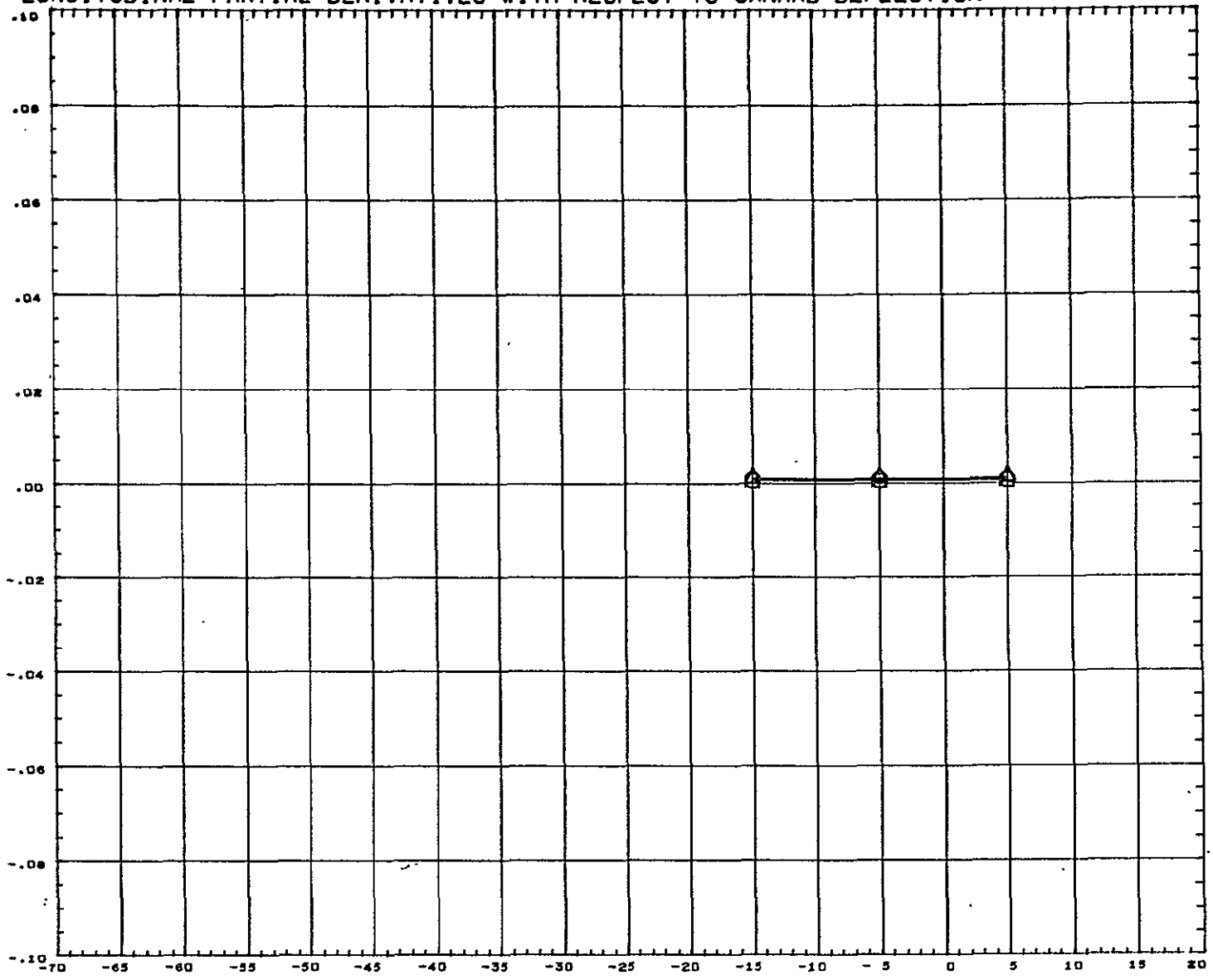
		ELEVON 0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
									XMRP	6.7100	IN.
									YMRP	0.0000	IN.
									ZMRP	0.0000	IN.
									SCALE	0.0035	

DATA HIST. CODE MVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
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										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
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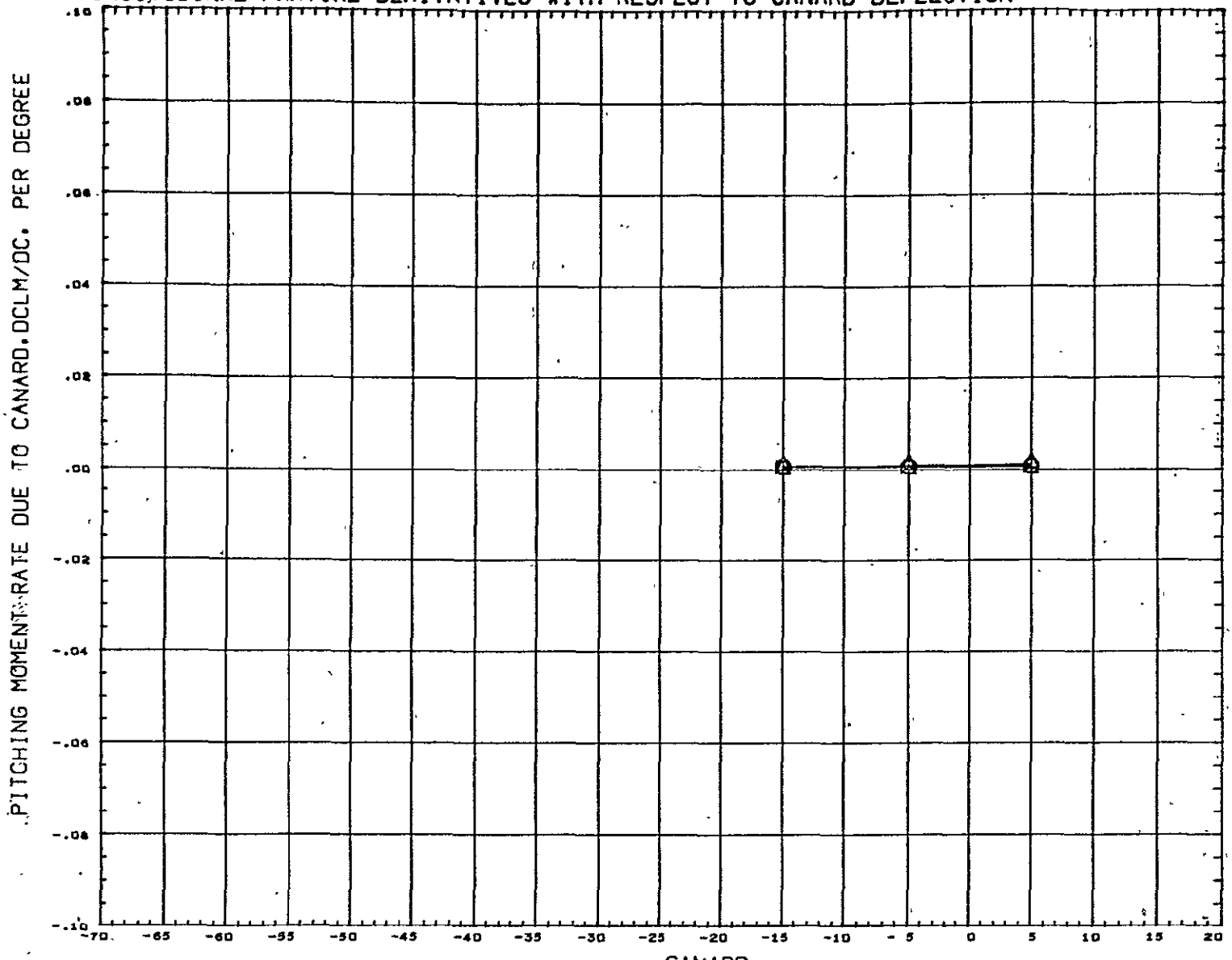
DATA HIST. CODE MVR*E1*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
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		ELEVON	0.000	AILRON	0.000	028111	-5.000			BREF	6.0990	IN.
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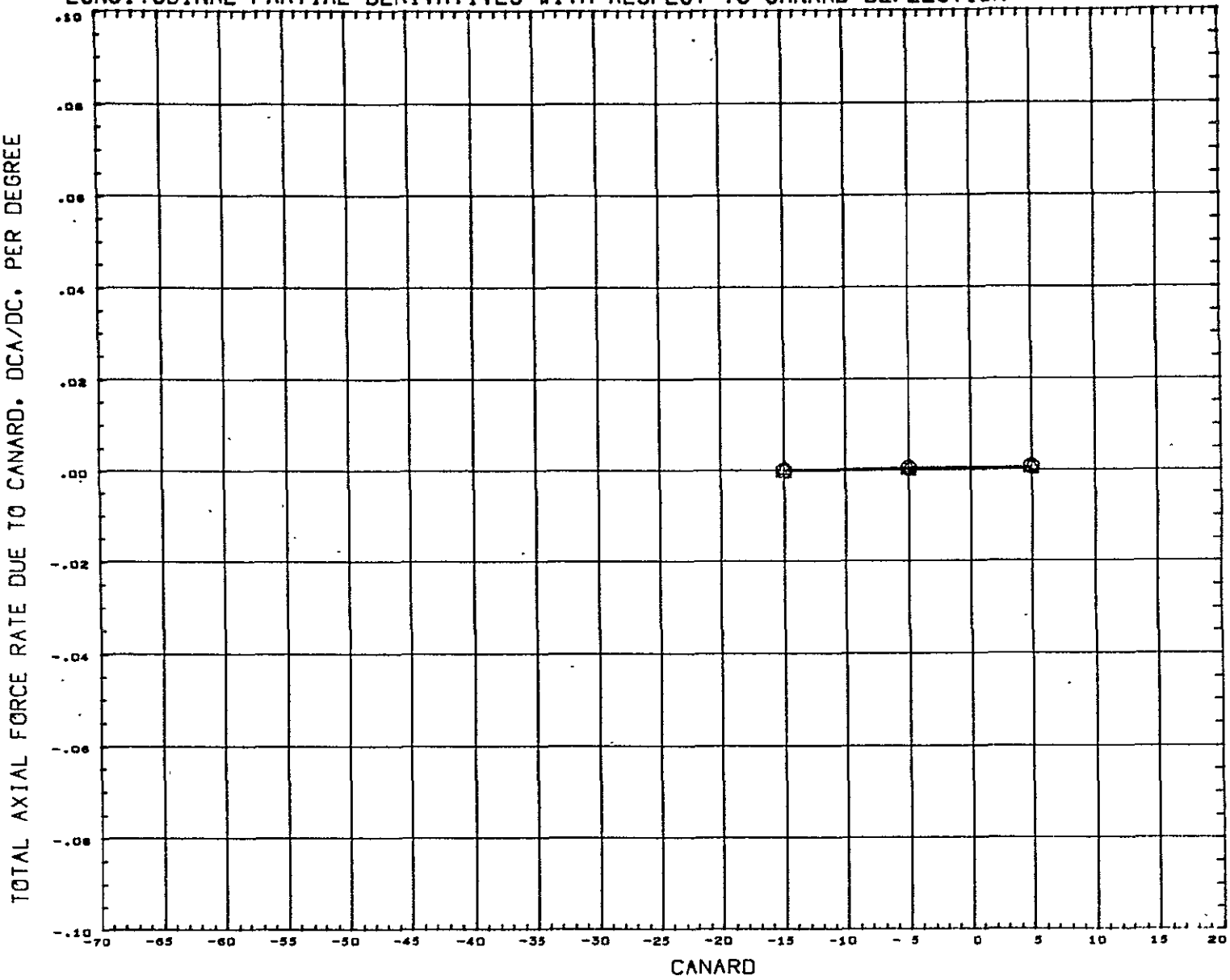
DATA HIST. CODE MVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	0.900	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	028109	-15.000	028110	-5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
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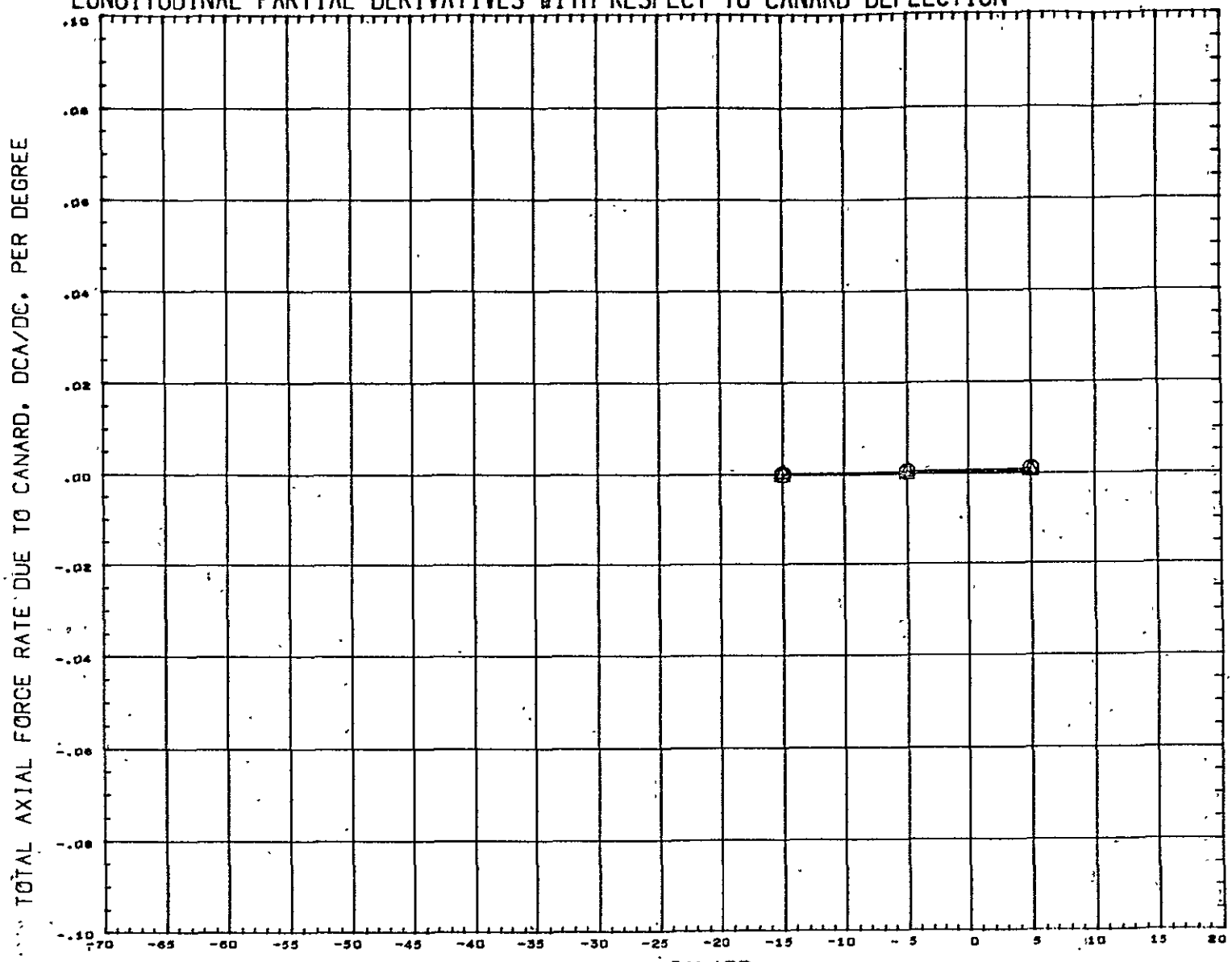
DATA HIST. CODE MVR*EI*M*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
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										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
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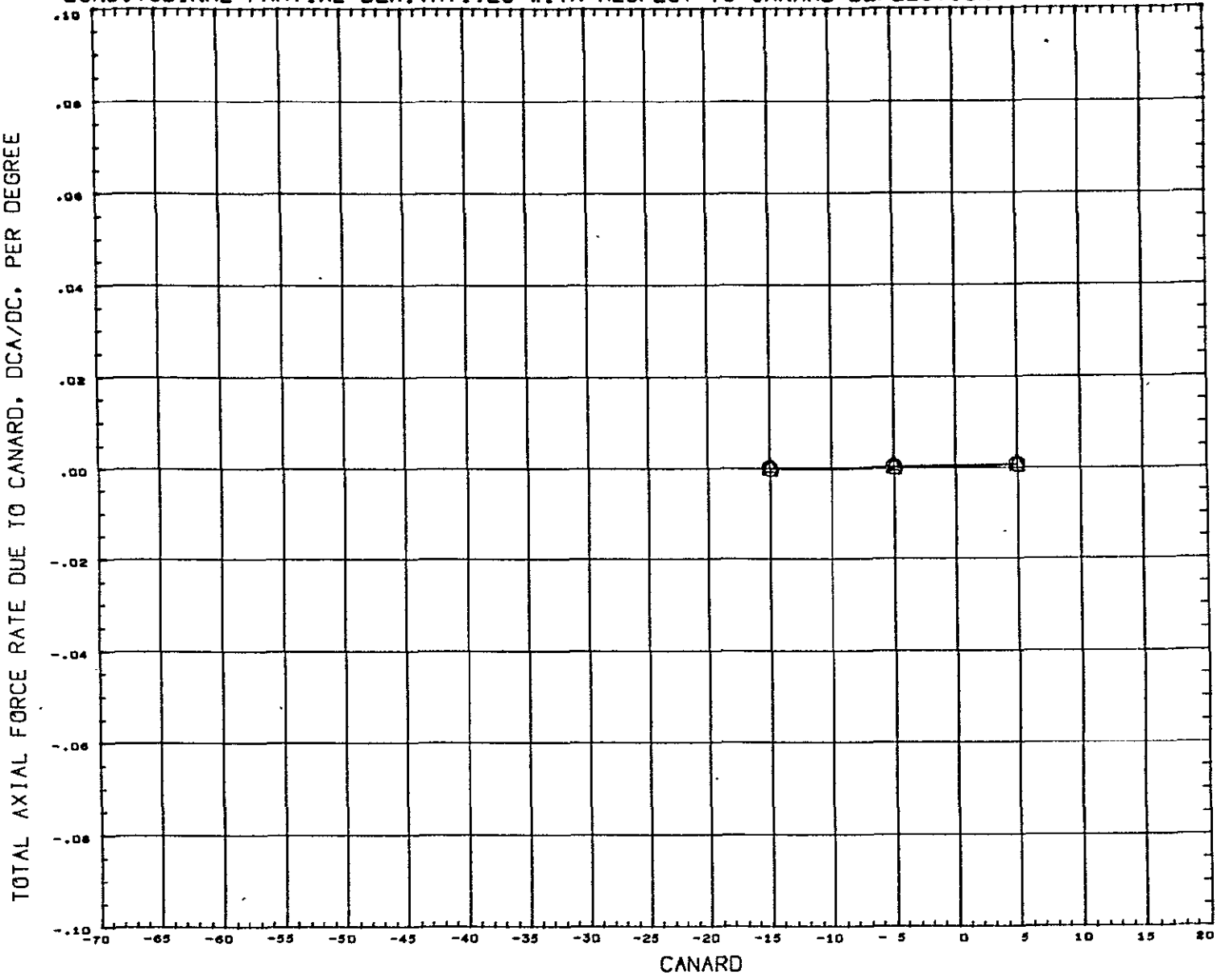
DATA HIST. CODE MVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
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										YMRP	0.0000	IN.
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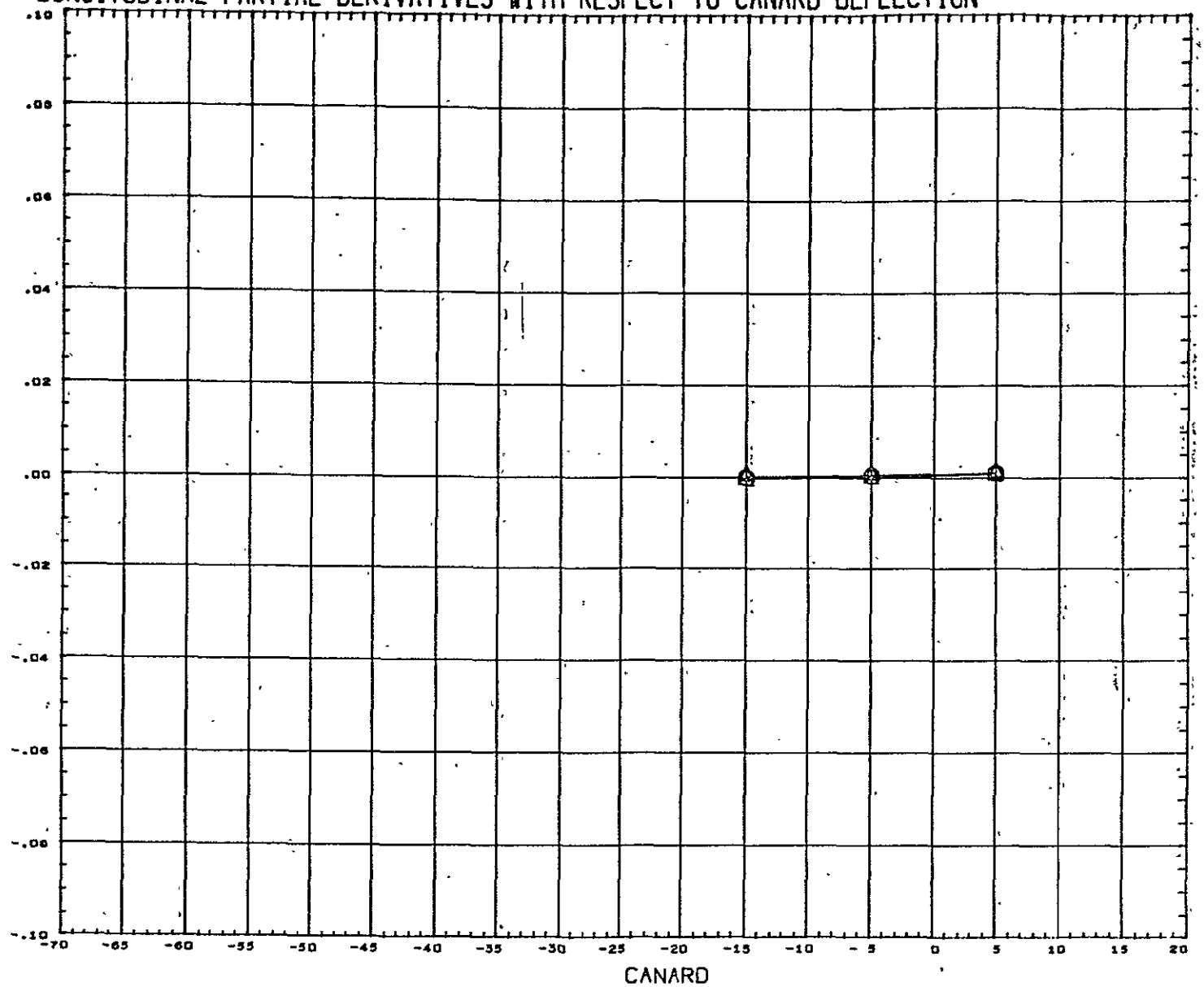
DATA HIST. CODE MVR*E1*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA
◇	10.000
△	20.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
DEL	0.000	DER	0.000
ELEVON	0.000	AILRON	0.000

DATA SOURCE

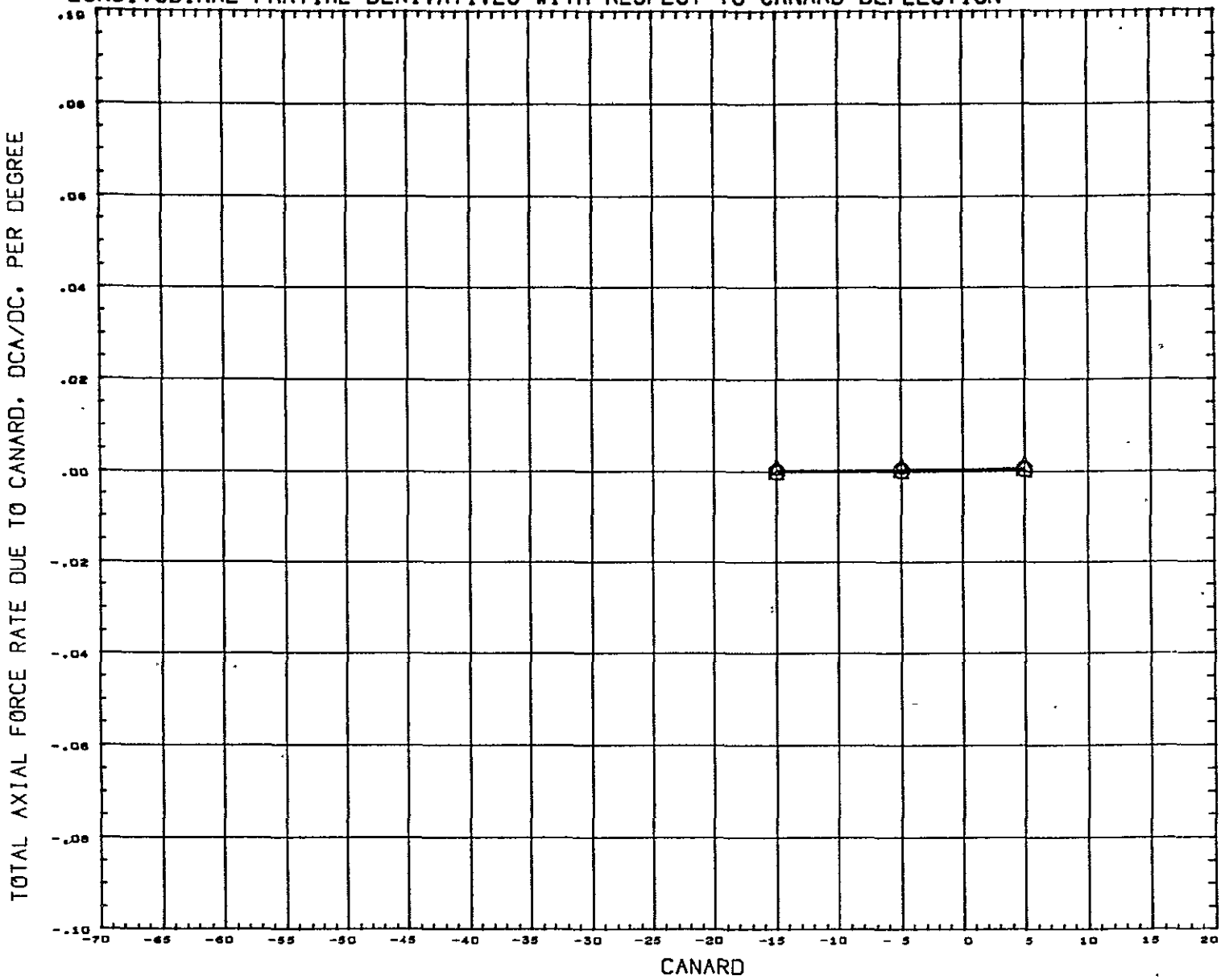
DATASET	CANARD	DATASET	CANARD
028109	-15.000	028110	-5.000
028111	5.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE MVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	1.500	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
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		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
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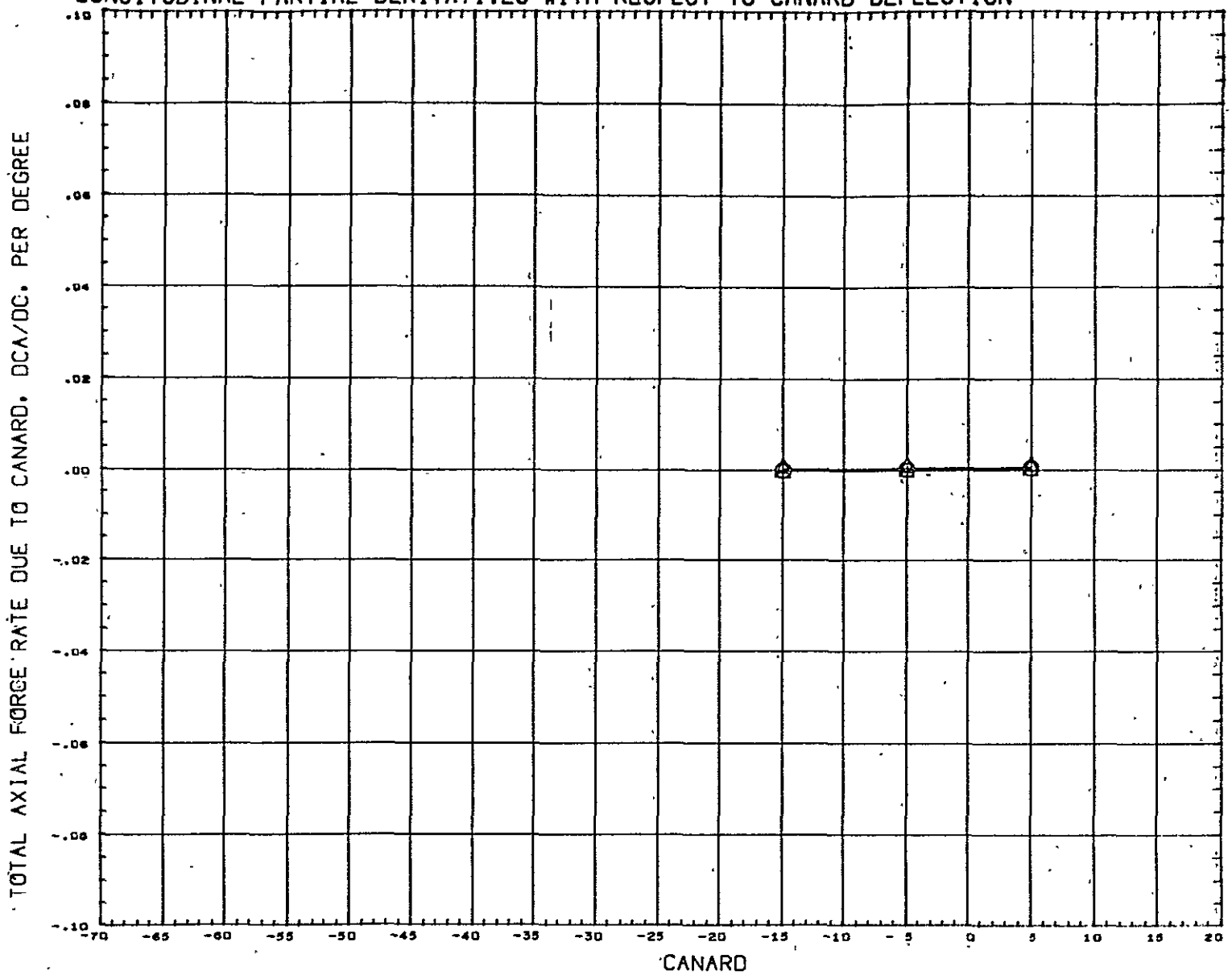
DATA HIST. CODE HVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000	
DEL	0.000	DER	0.000	
ELEVON	0.000	AILRON	0.000	

DATA SOURCE

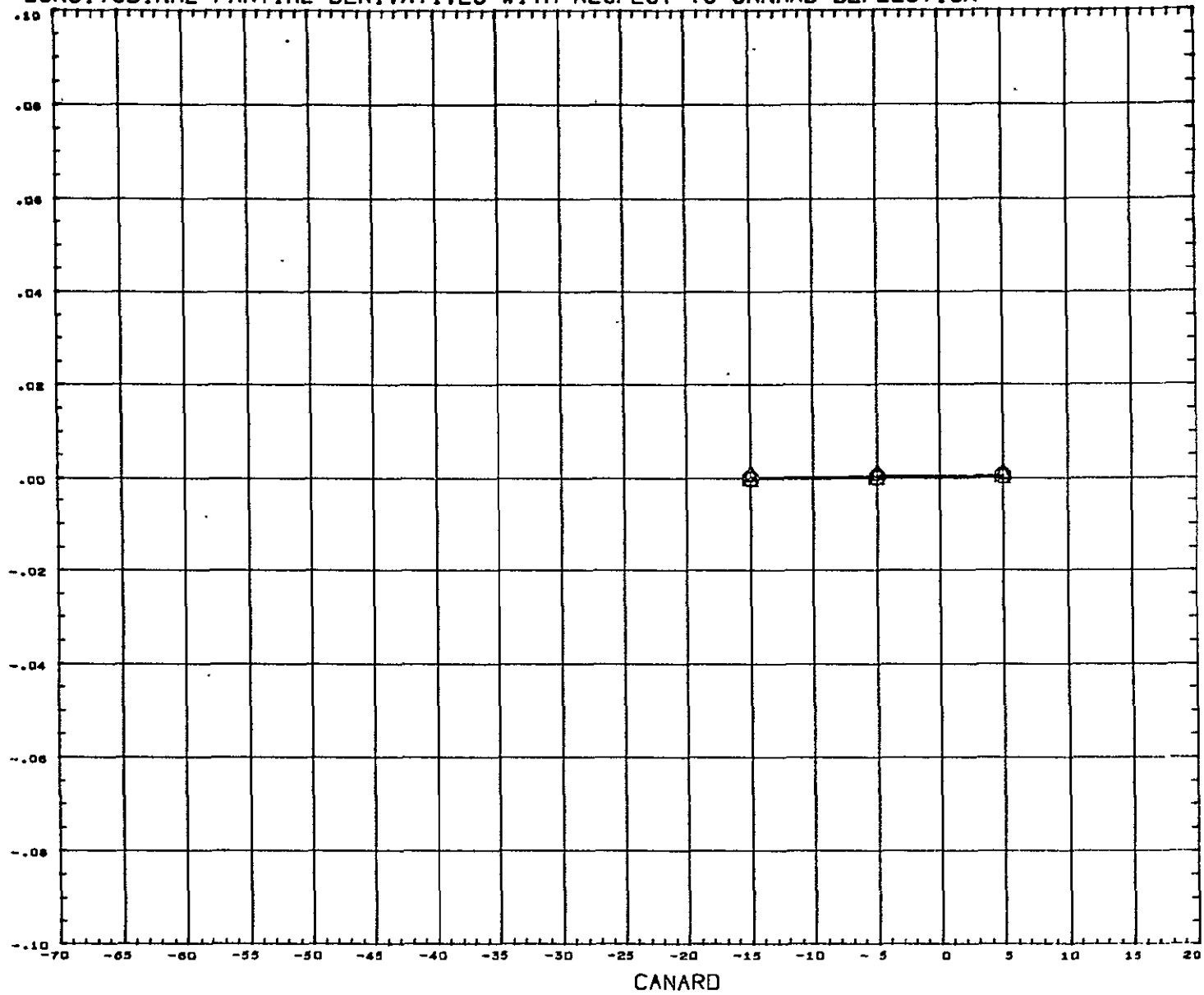
DATASET	CANARD	DATASET	CANARD
028109	- 15.000	028110	- 5.000
028111	5.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE HVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
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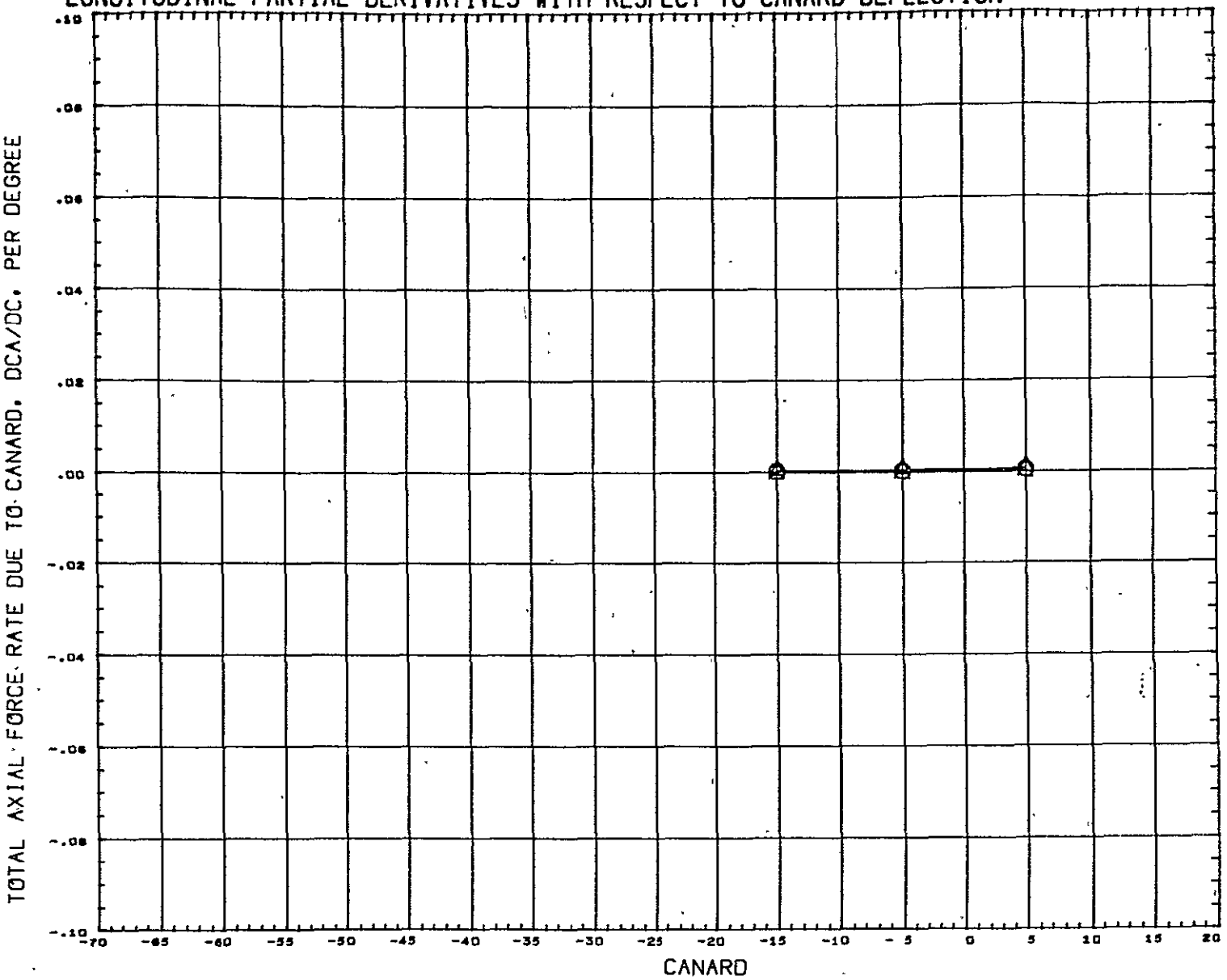
△	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE HVR*EI*H*P

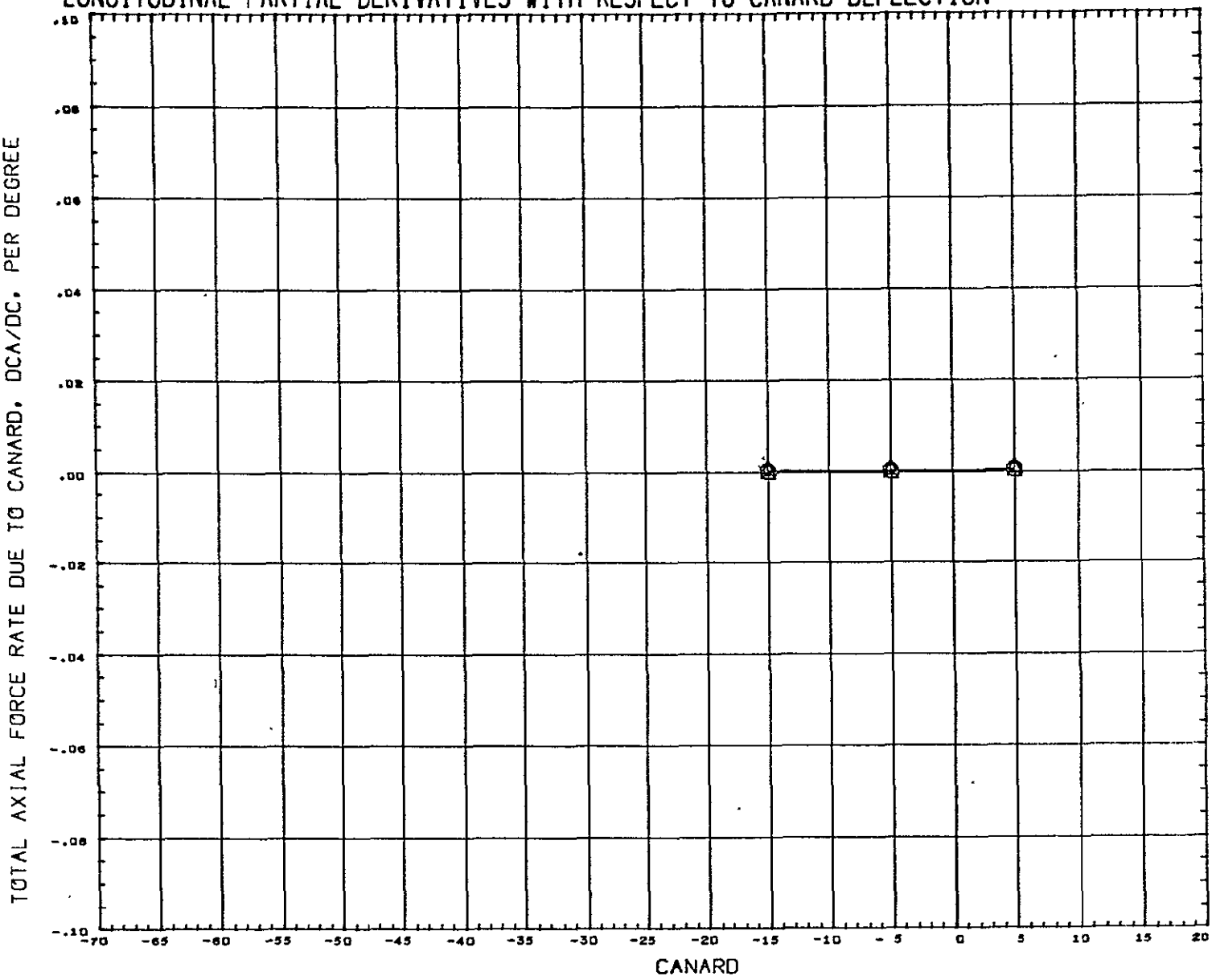
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	4.000	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE MVR*EI*H*P

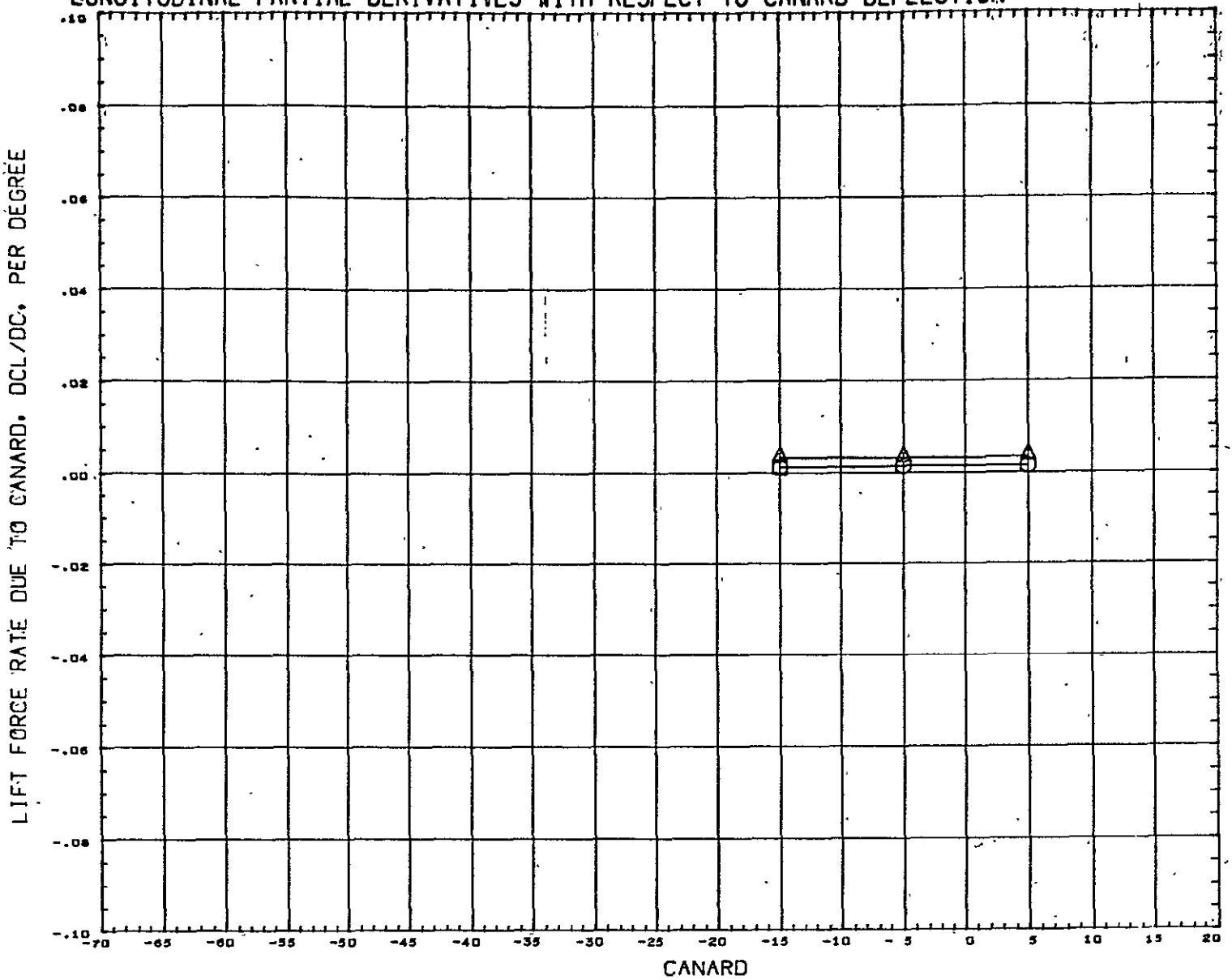
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
◇	10.000	MACH	5.000	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE MVR*EI*H*P

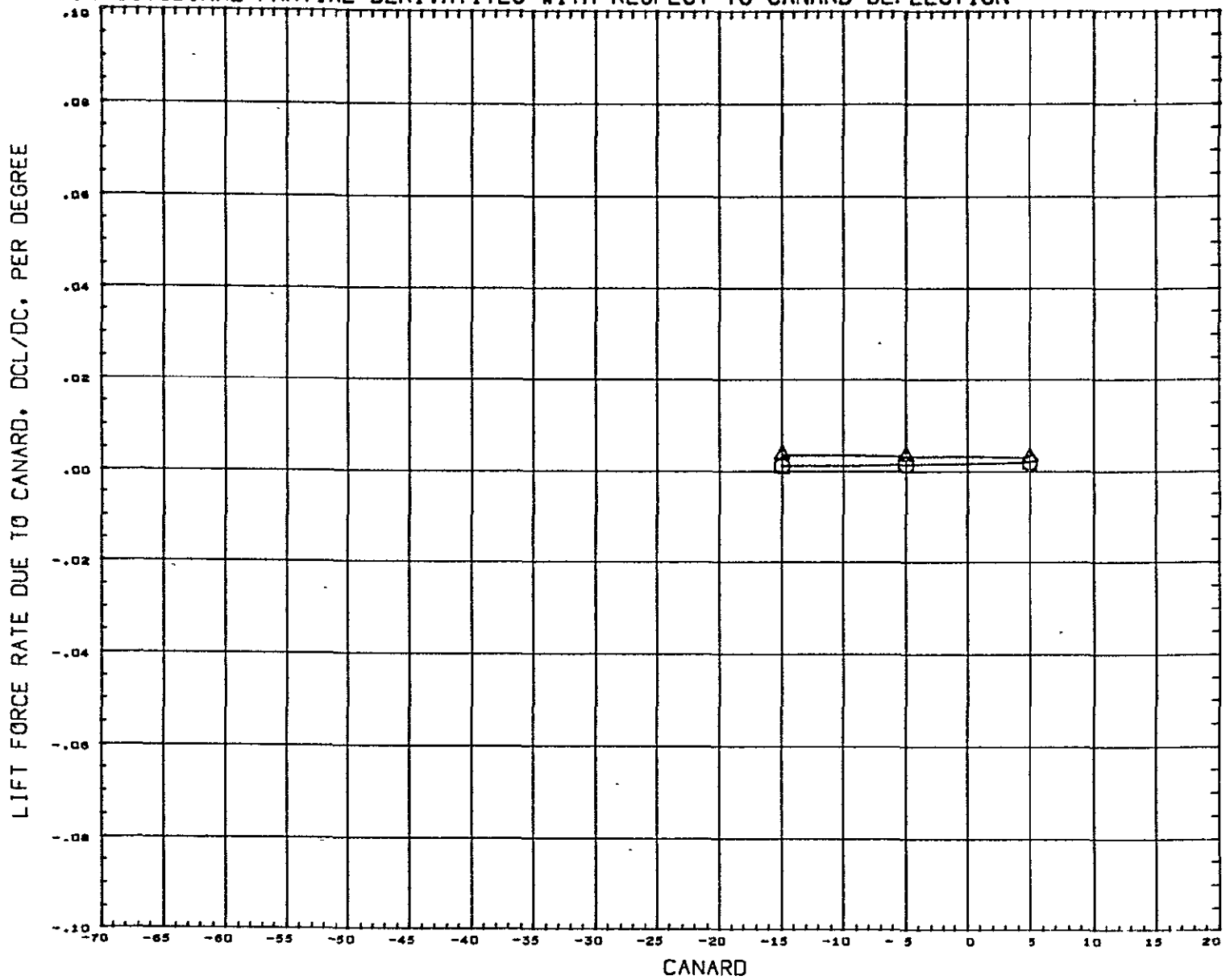
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	0.900	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE MVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	0.950	BETA	0.000		
DEL	0.000	DER	0.000		
ELEVON	0.000	AILRON	0.000		

DATA SOURCE

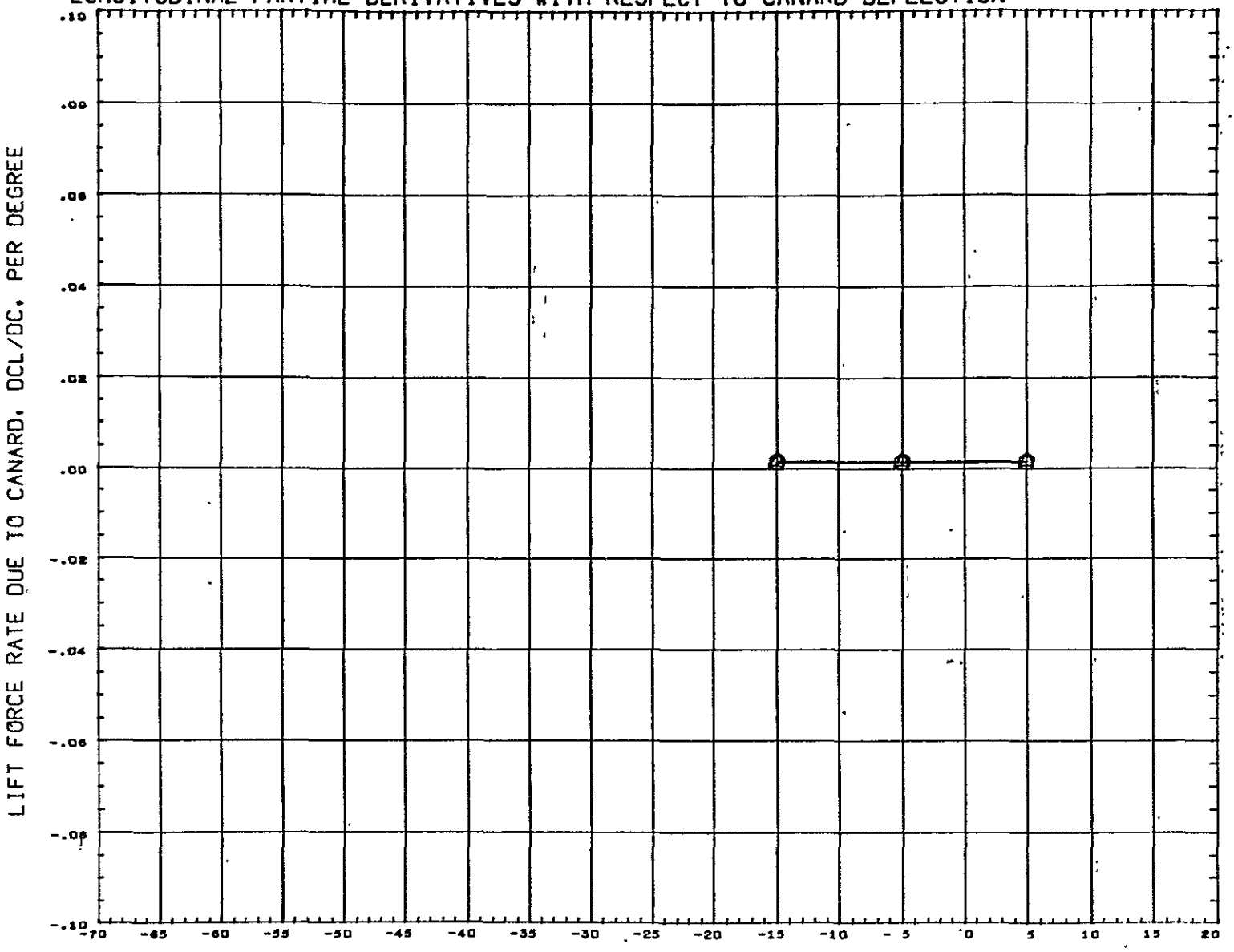
DATASET	CANARD	DATASET	CANARD
028109	- 15.000	028110	- 5.000
028111	5.000		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE MVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
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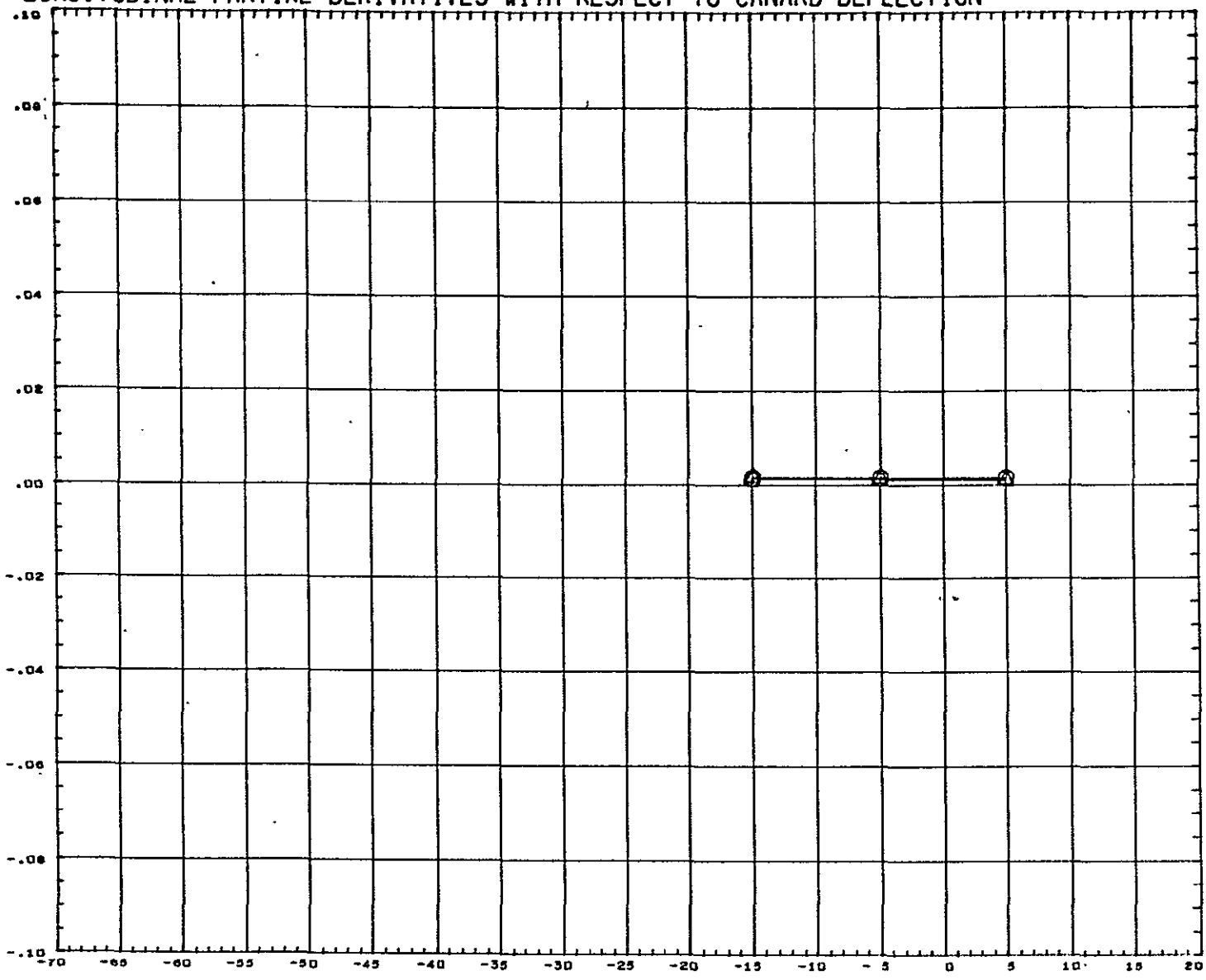
△	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE HVR*E1*H*P

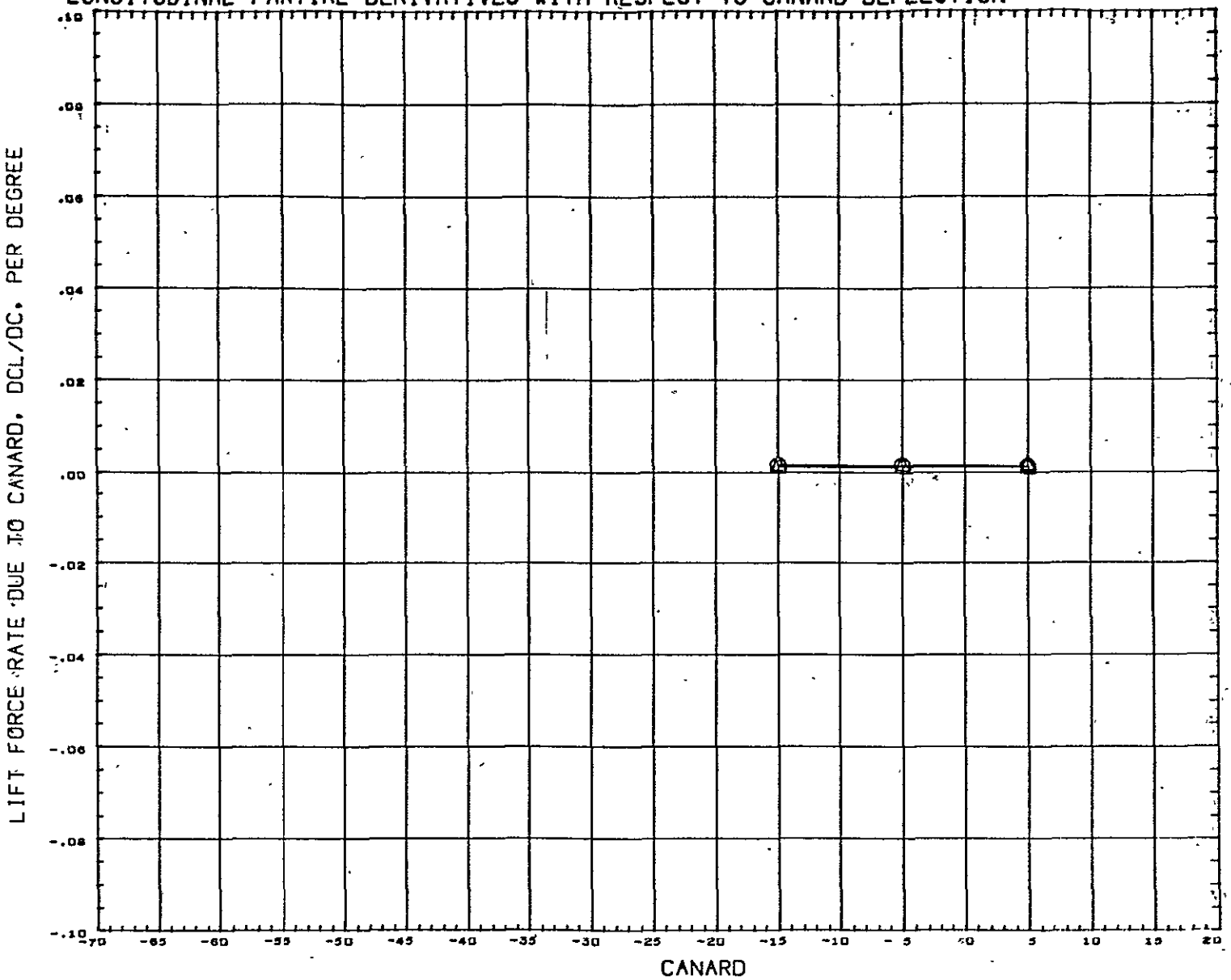
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	1.200	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE HVR*EI*H*P

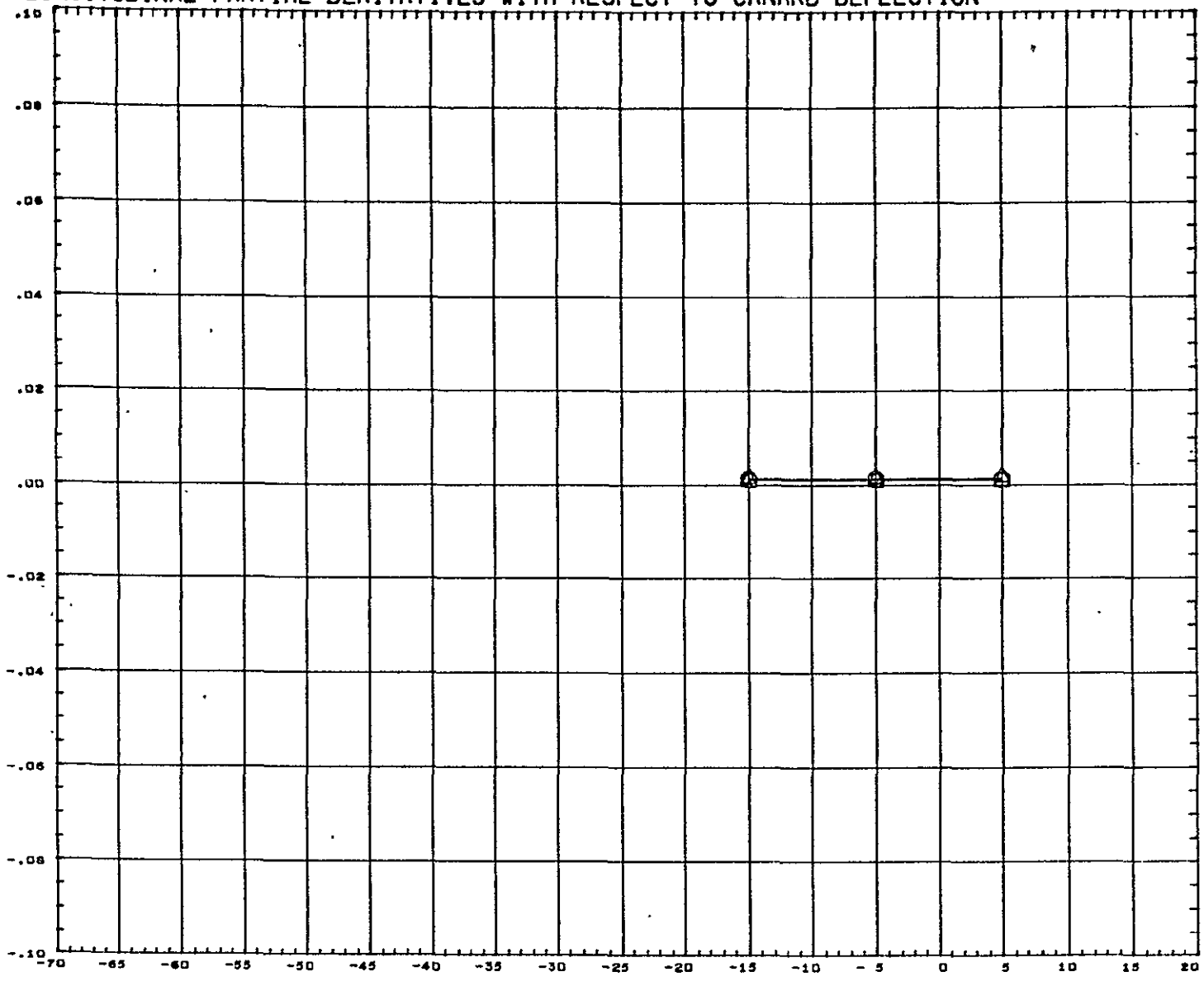
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	1.500	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE MVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

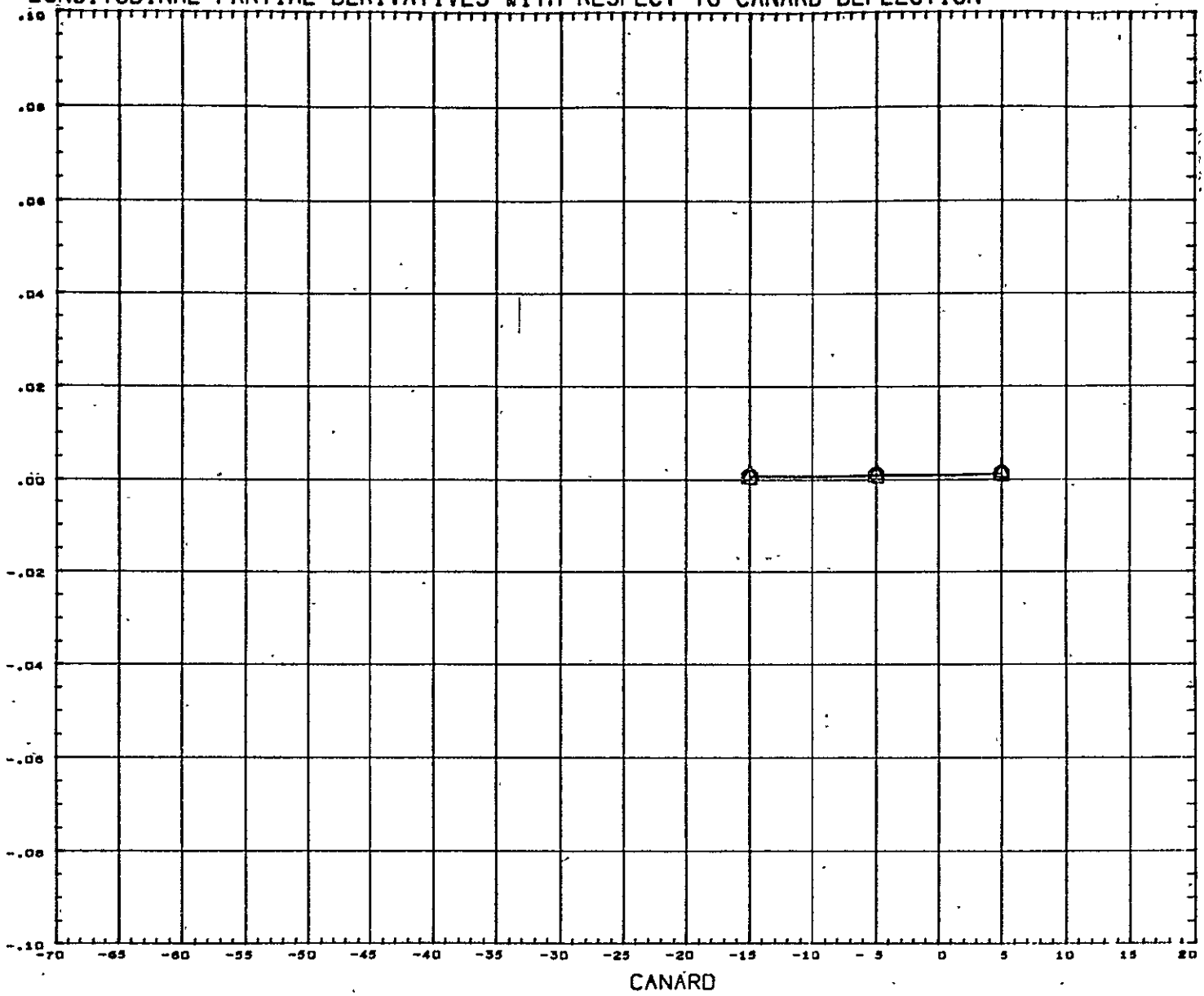
PARAMETRIC VALUES					
MACH	2.000	BETA	0.000		
DEL	0.000	DER	0.000		
ELEVON	0.000	AILRON	0.000		

DATA SOURCE			
DATASET	CANARD	DATASET	CANARD
028109	- 15.000	028110	- 5.000
028111	5.000		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE HVR*EI*H*P

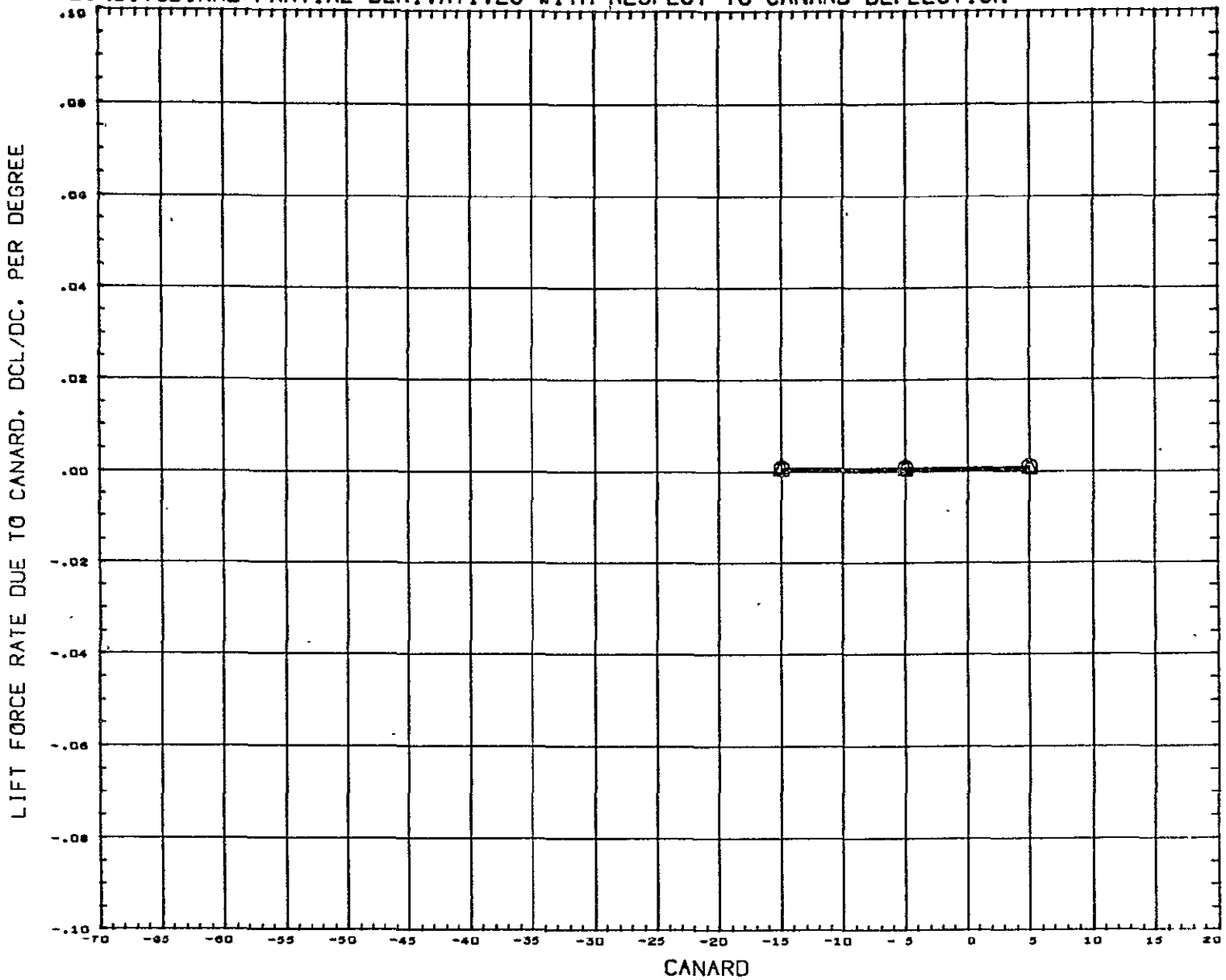
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	3.000	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA-HIST. CODE HVR*E1*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
◇	10.000	MACH	4.000	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
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		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
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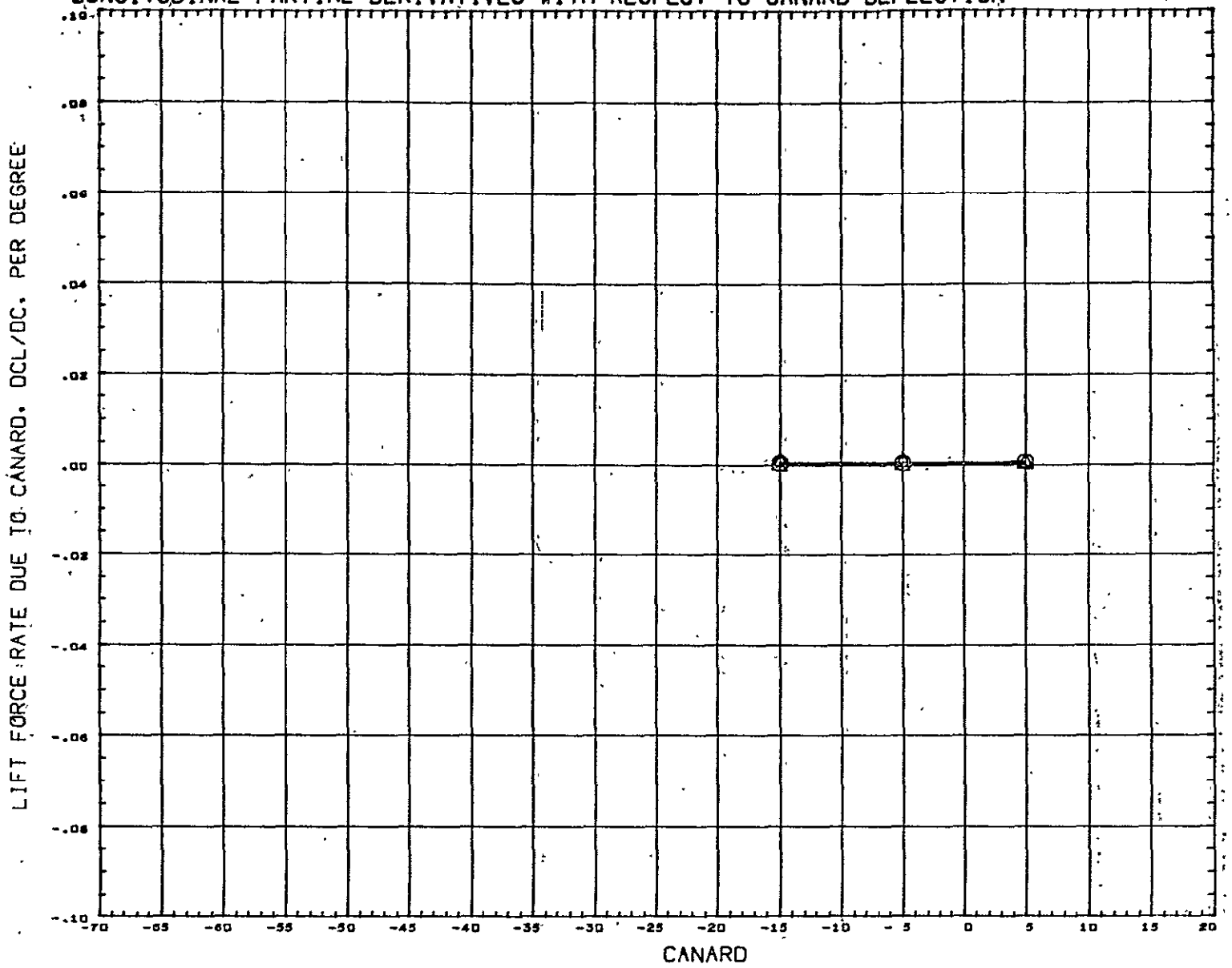
DATA HIST. CODE HVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
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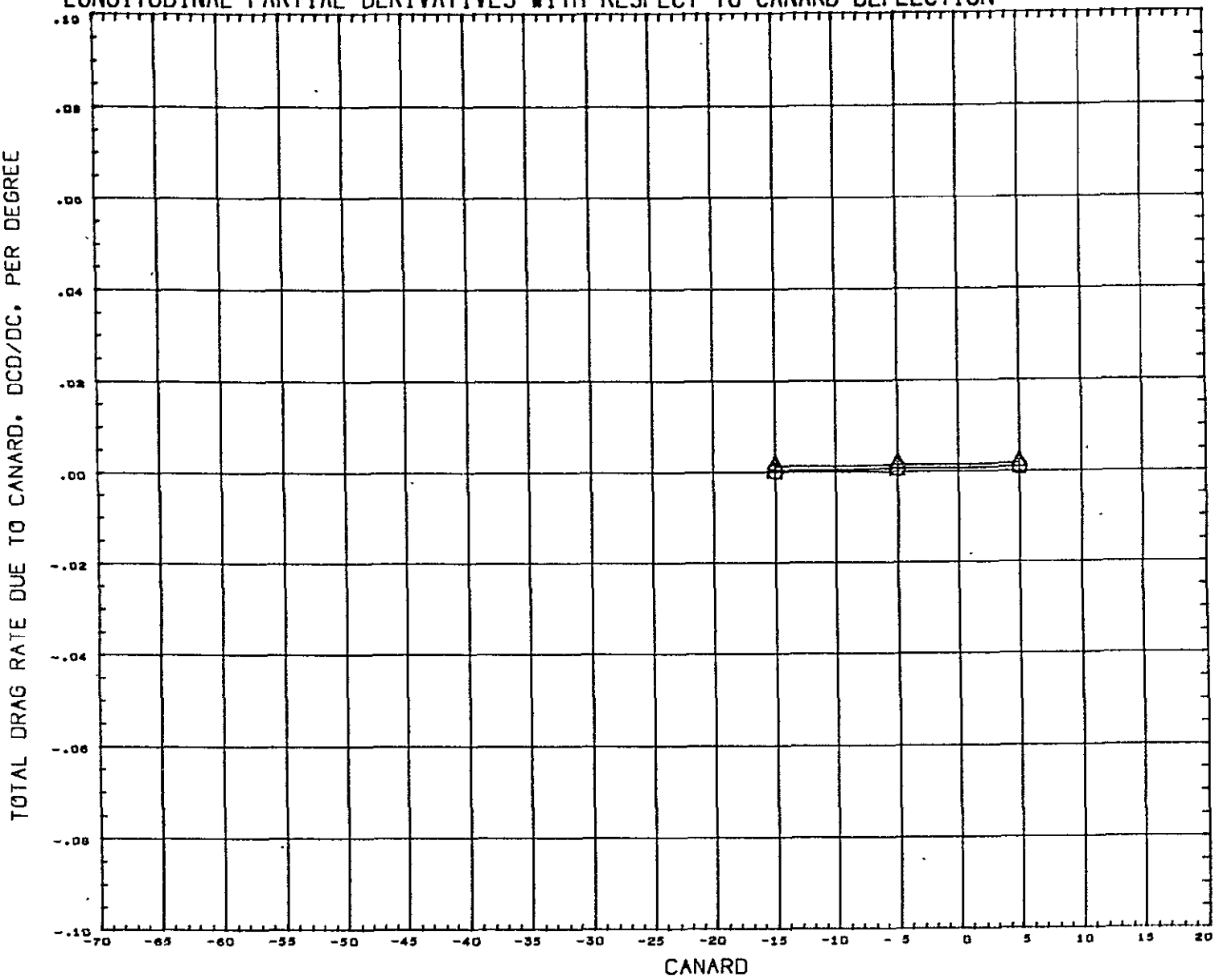
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE HVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	0.900	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
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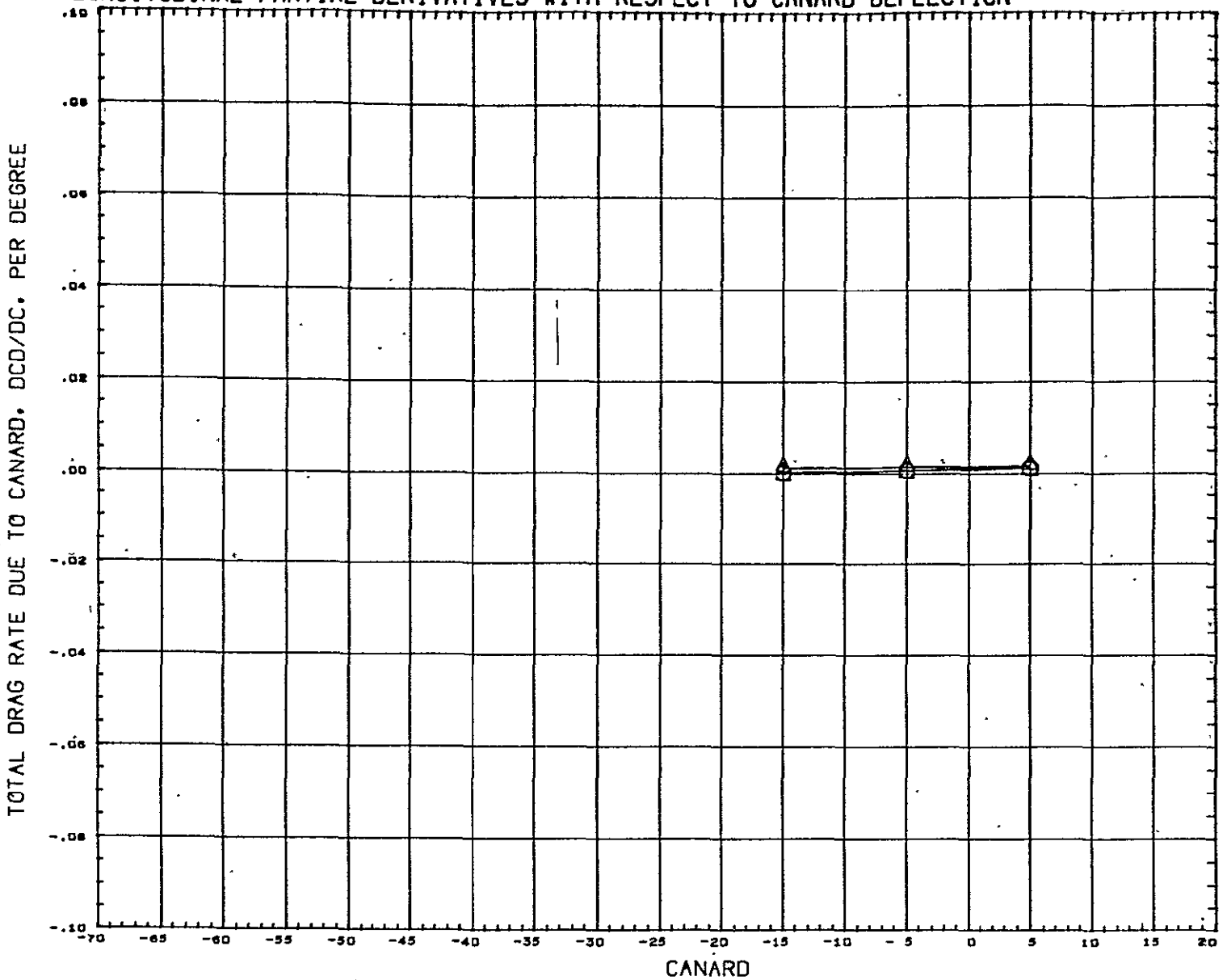
DATA HIST. CODE MVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	0.950	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
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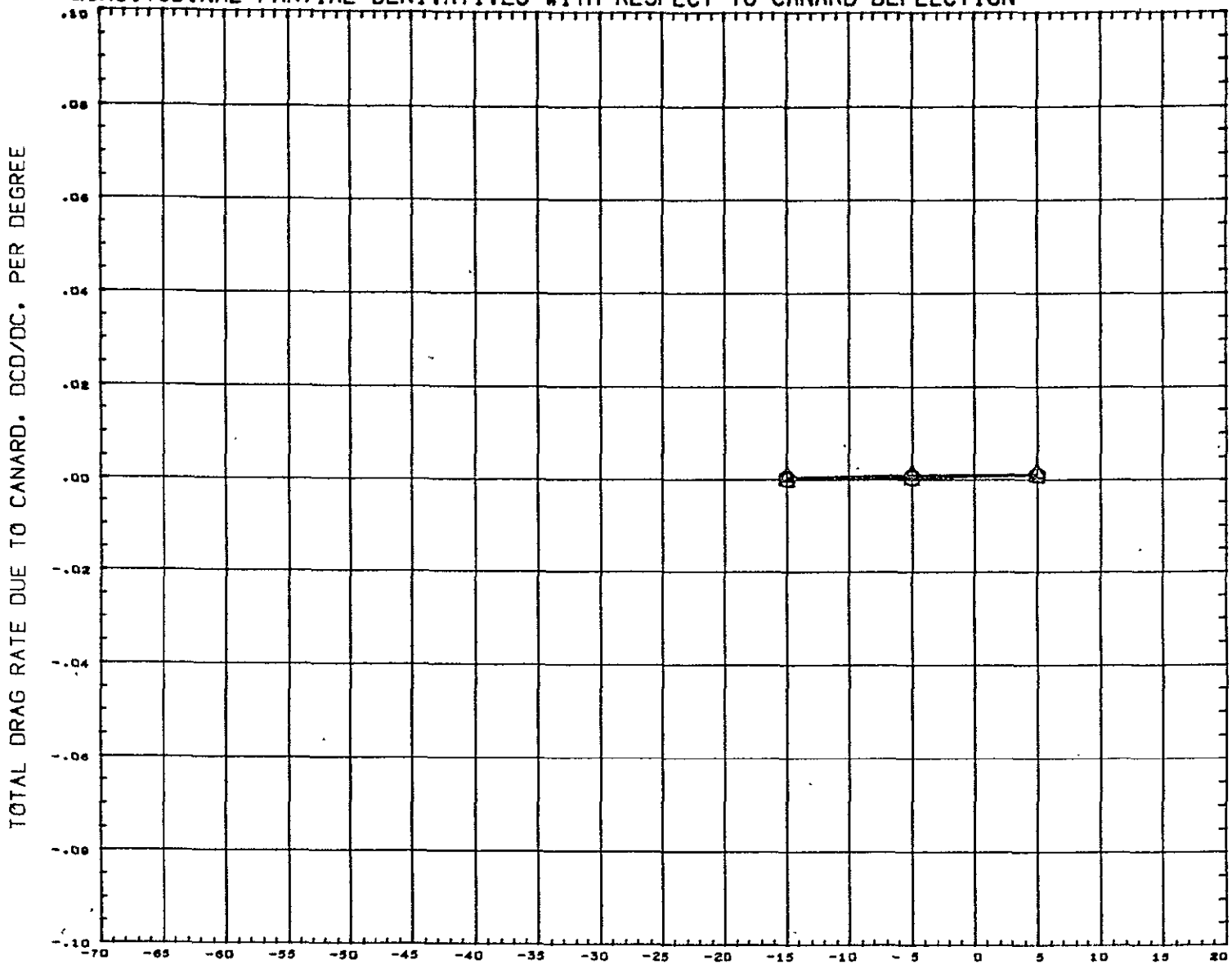
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE MVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	1.050	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
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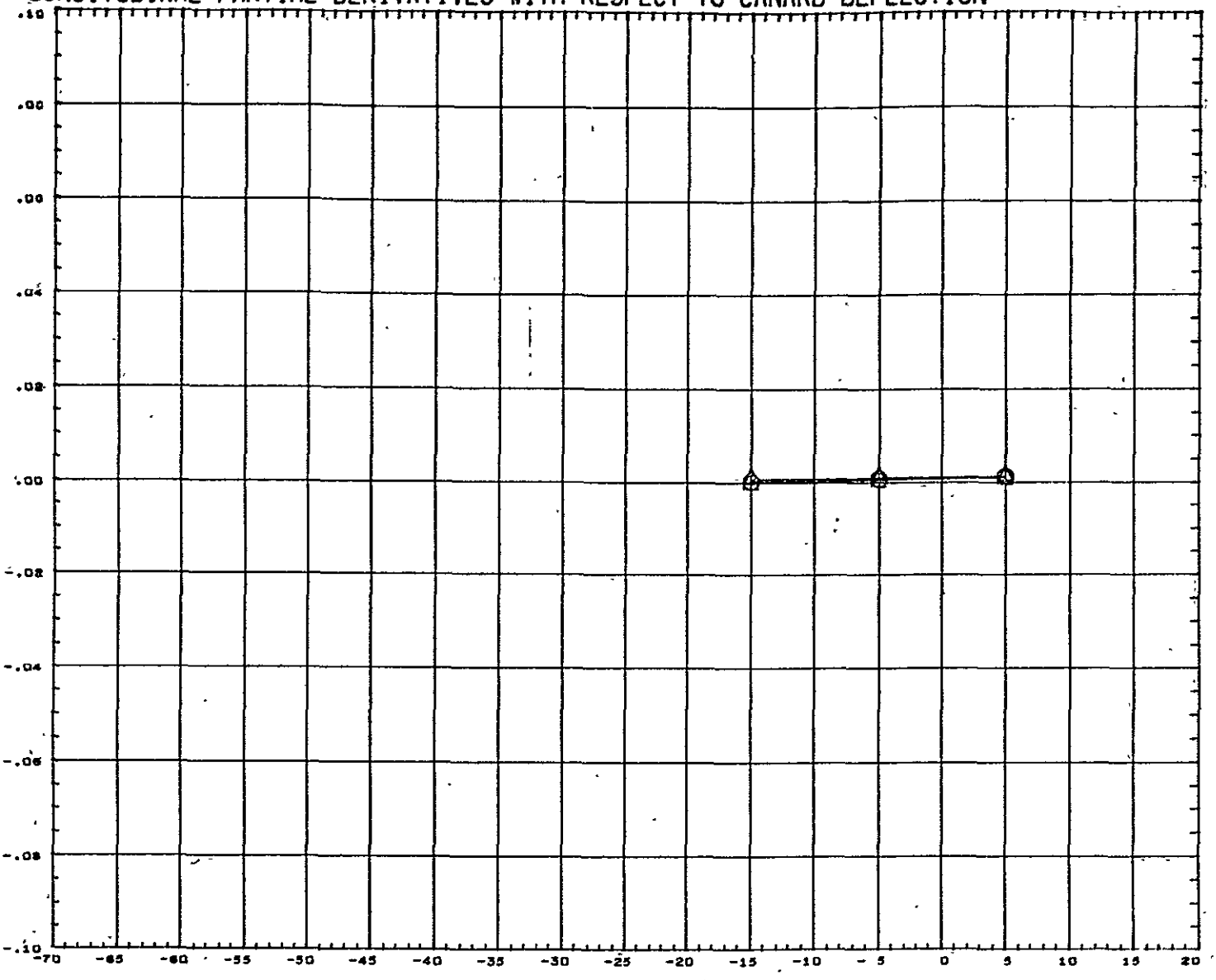
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE HVR*EI*M*P

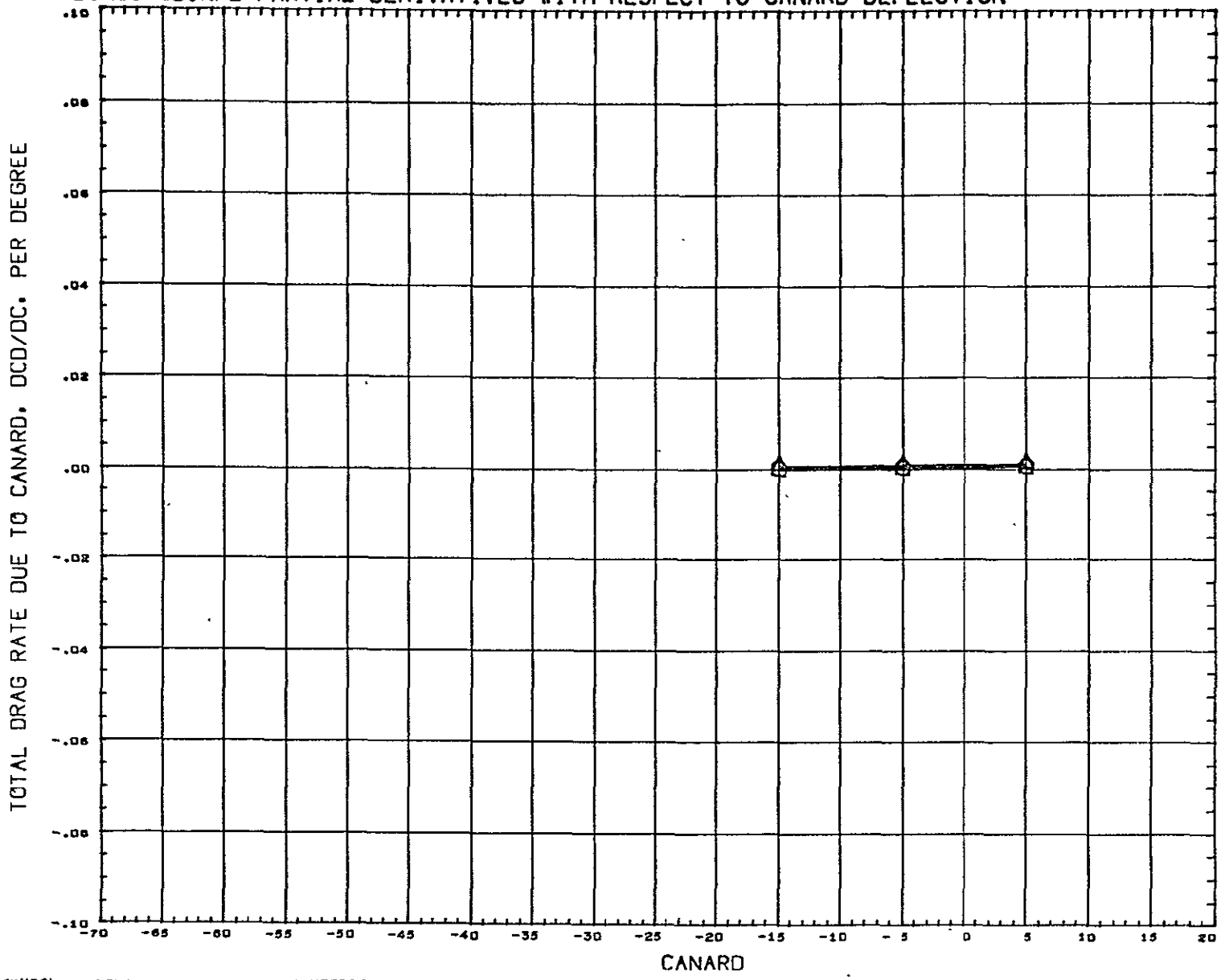
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
◇	10.000	MACH	1.200	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE MVR*E1*H*P

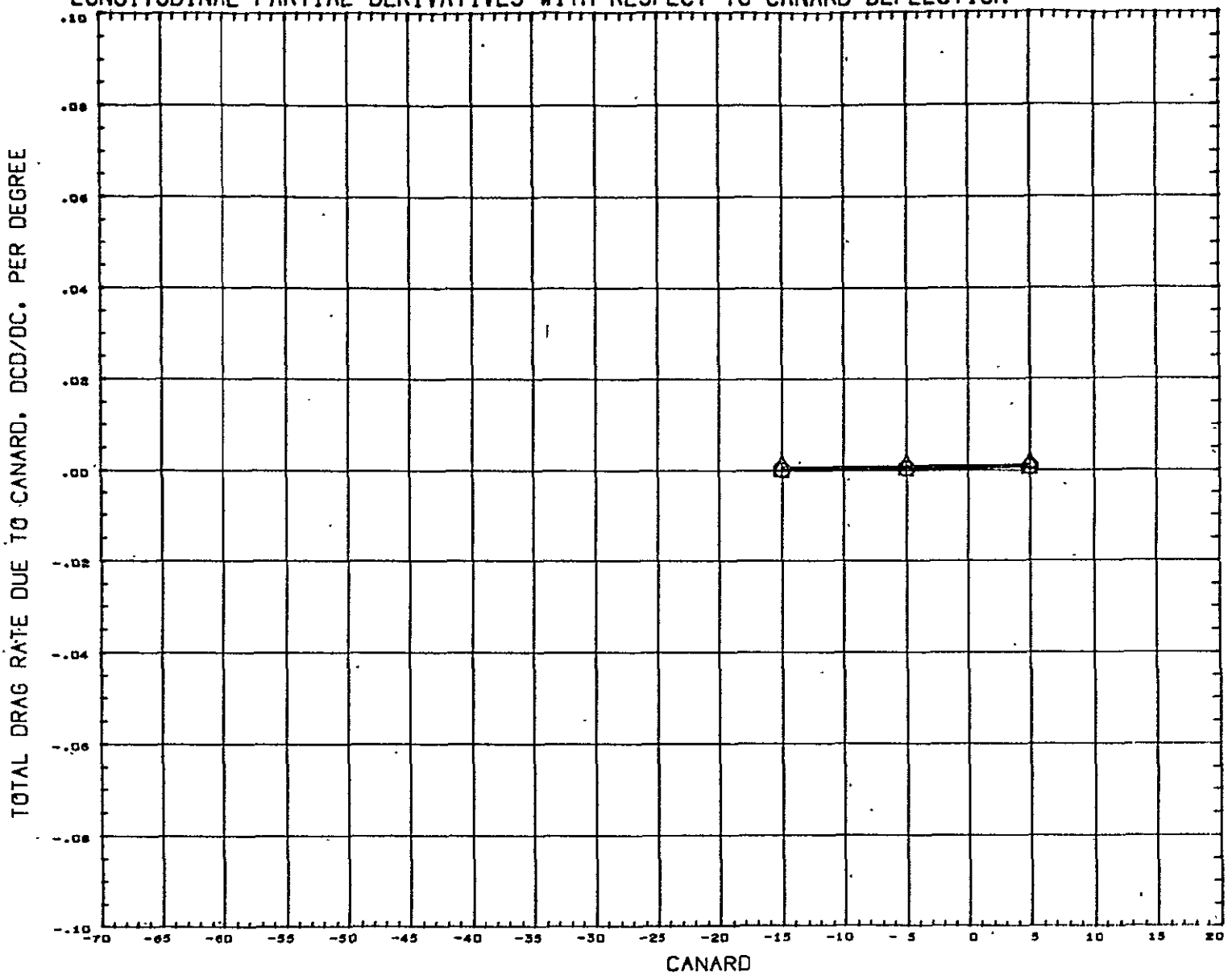
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	1.500	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE MVR*E1*H*P

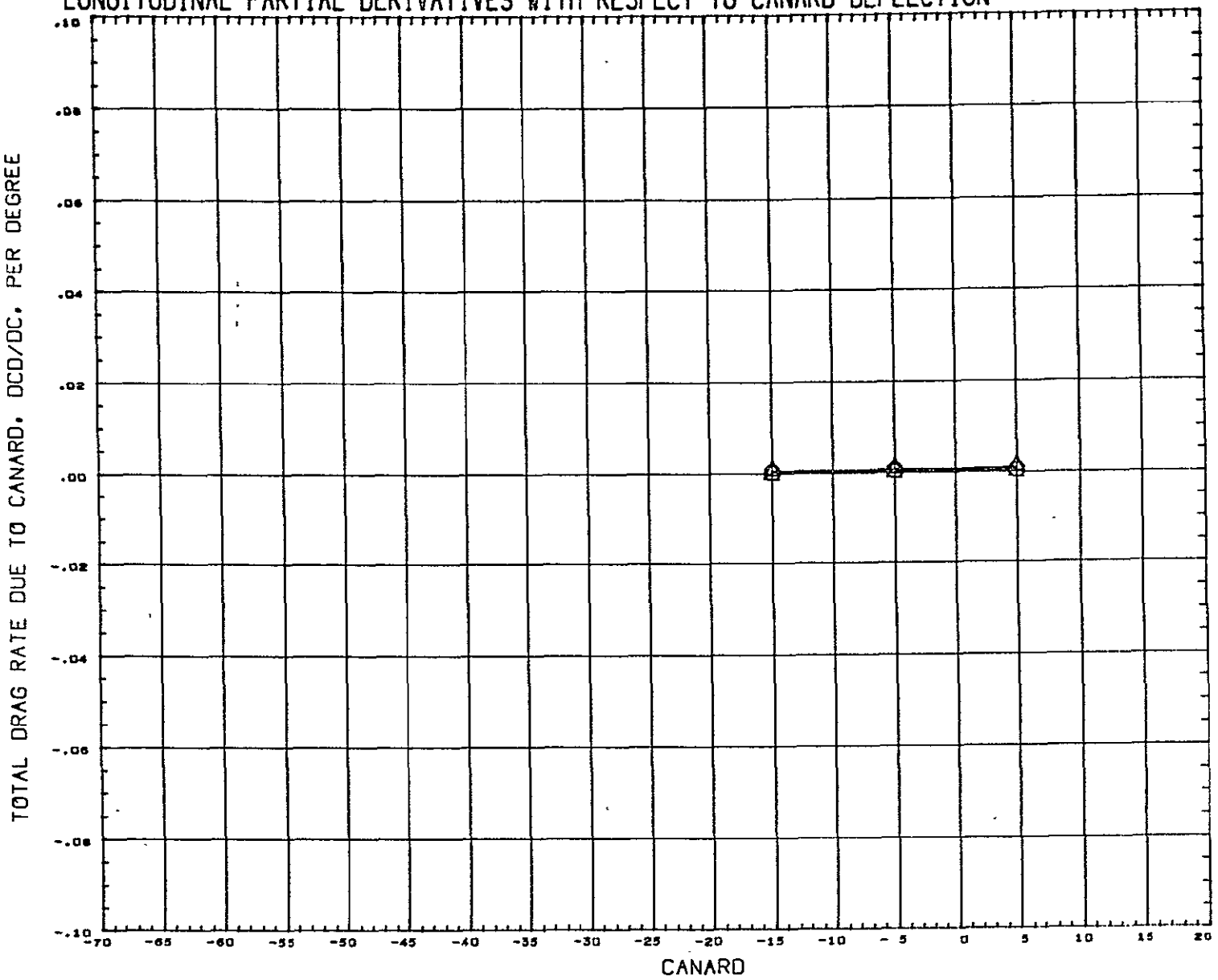
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	2.000	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE MVR*EI*H*P

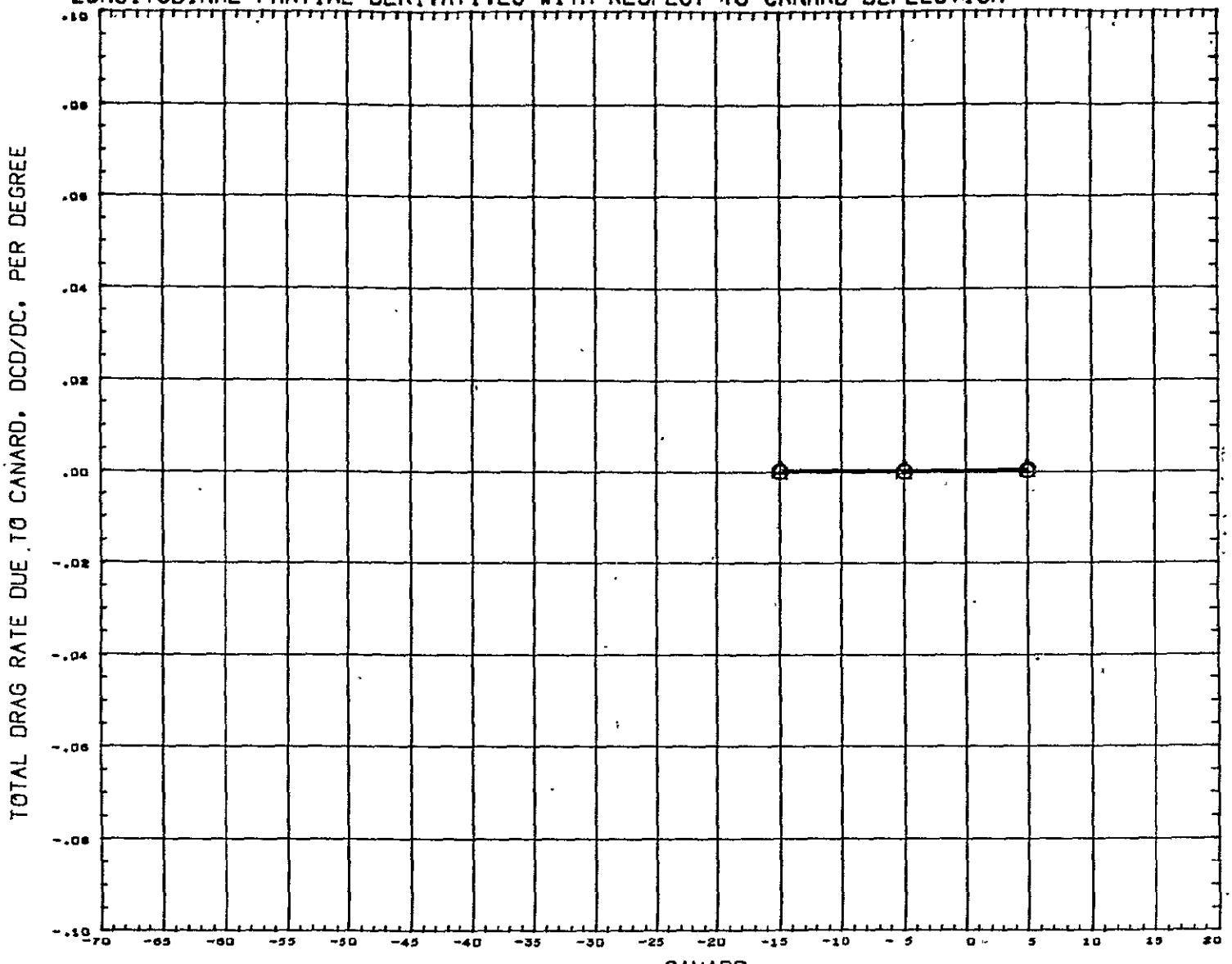
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
	10.000	MACH	3.000	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE MVR*EI*H*P

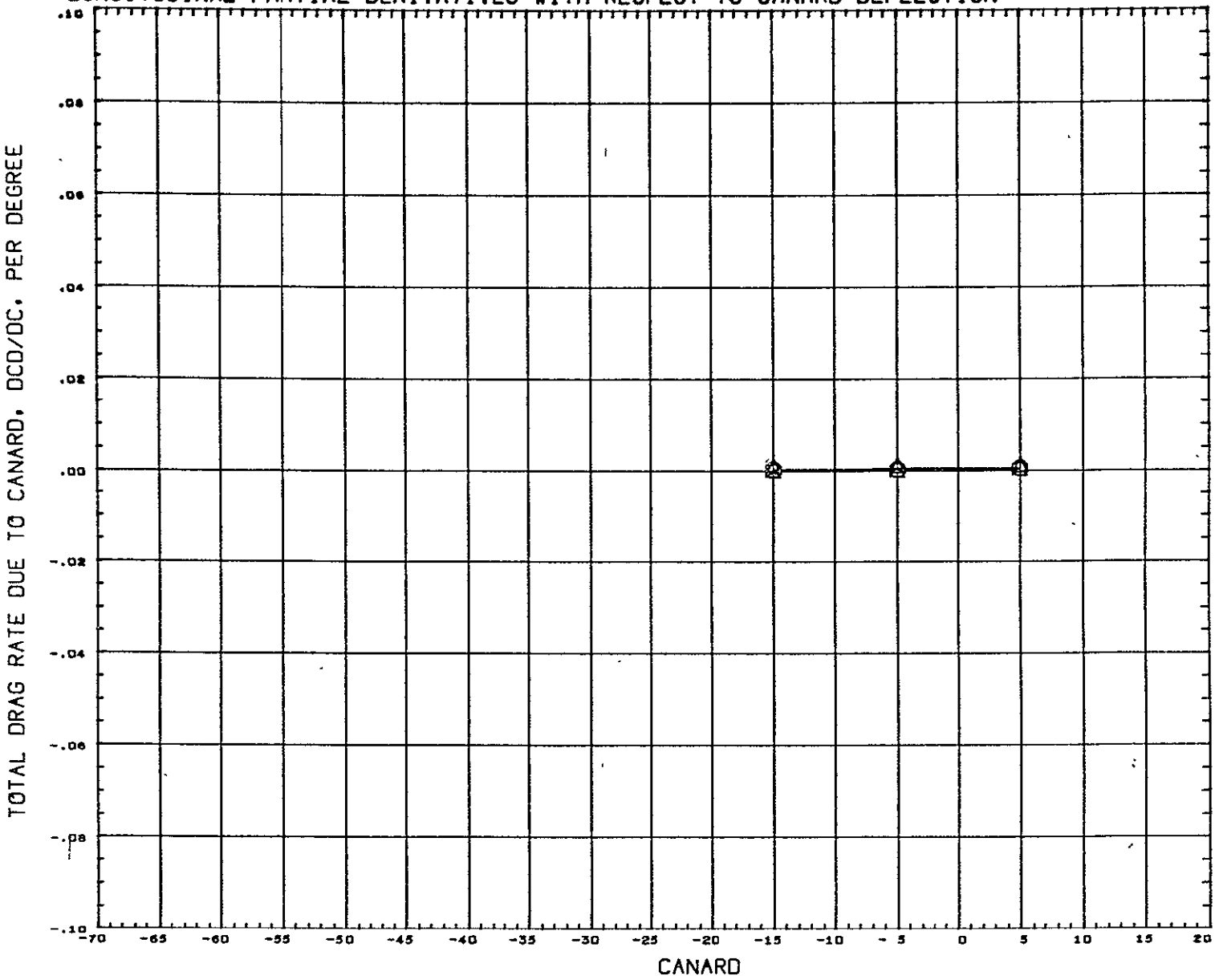
LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



YMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	4.000	BETA	0.000	DATASET	CANARD	DATASET	CANARD	SREF	15.6560	SQ.IN.
△	20.000	DEL	0.000	DER	0.000	028109	- 15.000	028110	- 5.000	LREF	3.0950	IN.
		ELEVON	0.000	AILRON	0.000	028111	5.000			BREF	6.0990	IN.
										XMRP	6.7100	IN.
										YMRP	0.0000	IN.
										ZMRP	0.0000	IN.
										SCALE	0.0035	

DATA HIST. CODE HVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

MACH	5.000	BETA	0.000	
DEL	0.000	DER	0.000	
ELEVON	0.000	AILRON	0.000	

DATA SOURCE

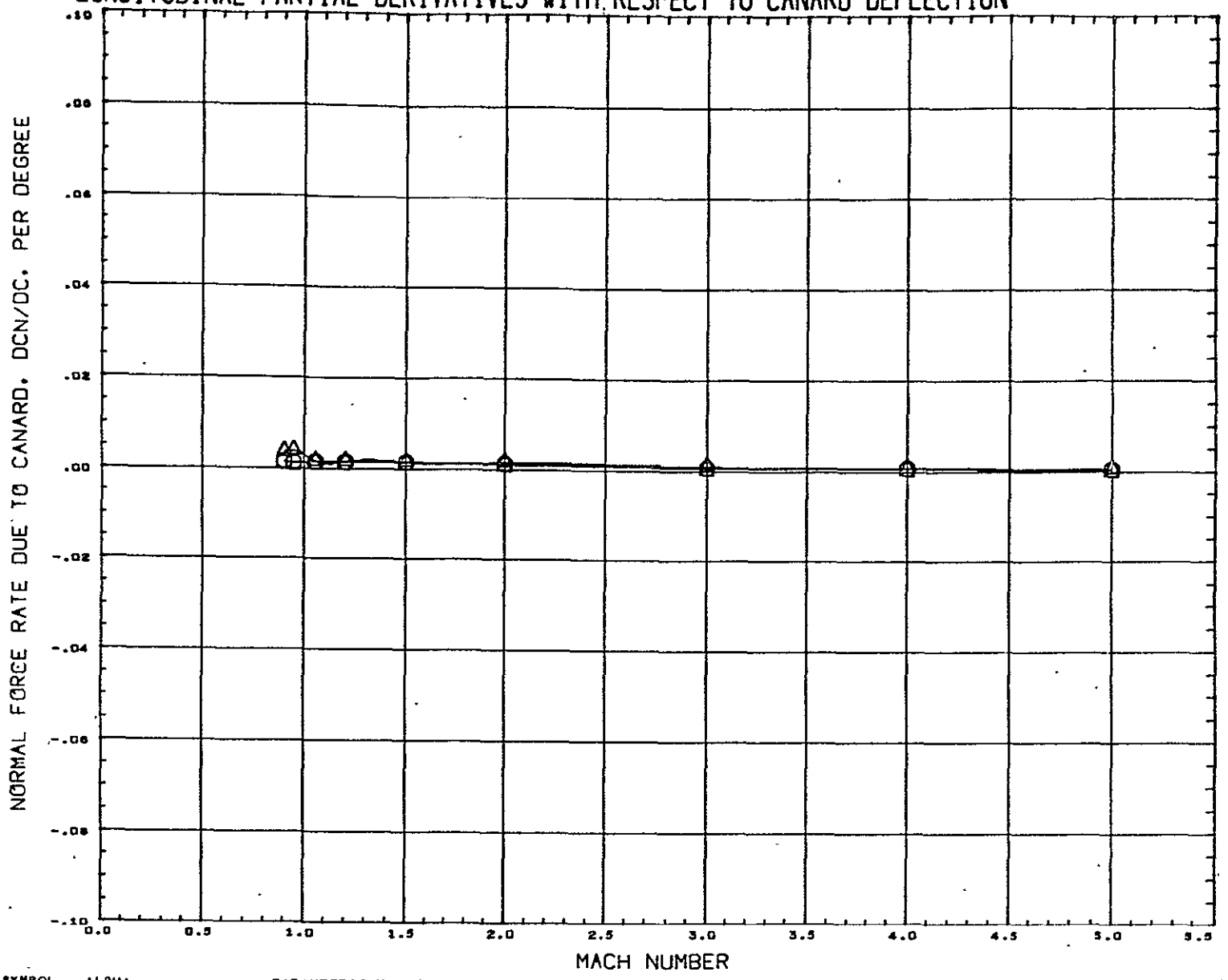
DATASET	CANARD	DATASET	CANARD	
028109	- 15.000	028110	- 5.000	
028111	5.000			

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE MVR*EI*H*P

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

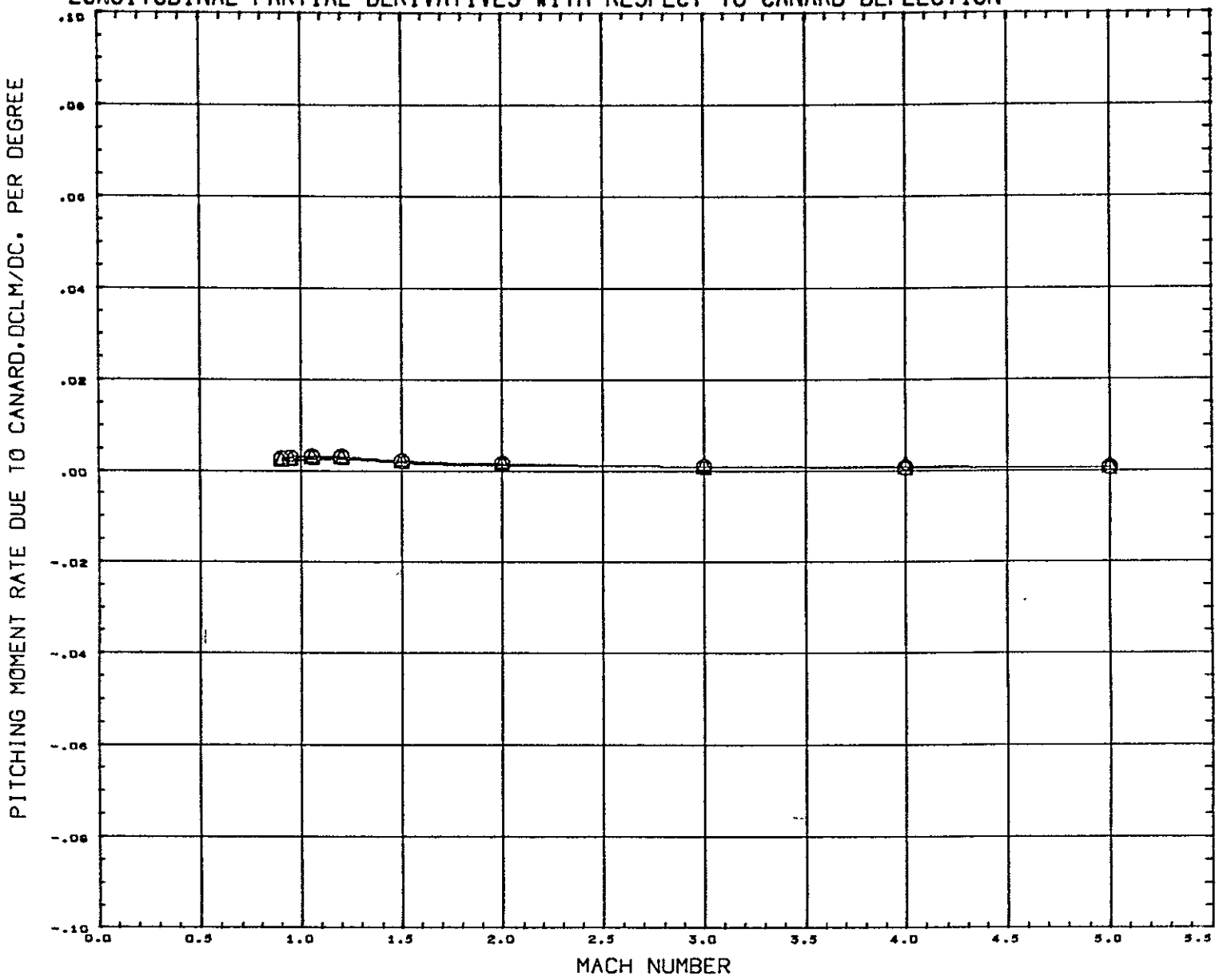
BETA	0.000	DEL	0.000
DER	0.000	ELEVON	0.000
CANARD	- 15.000	AILRON	0.000

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

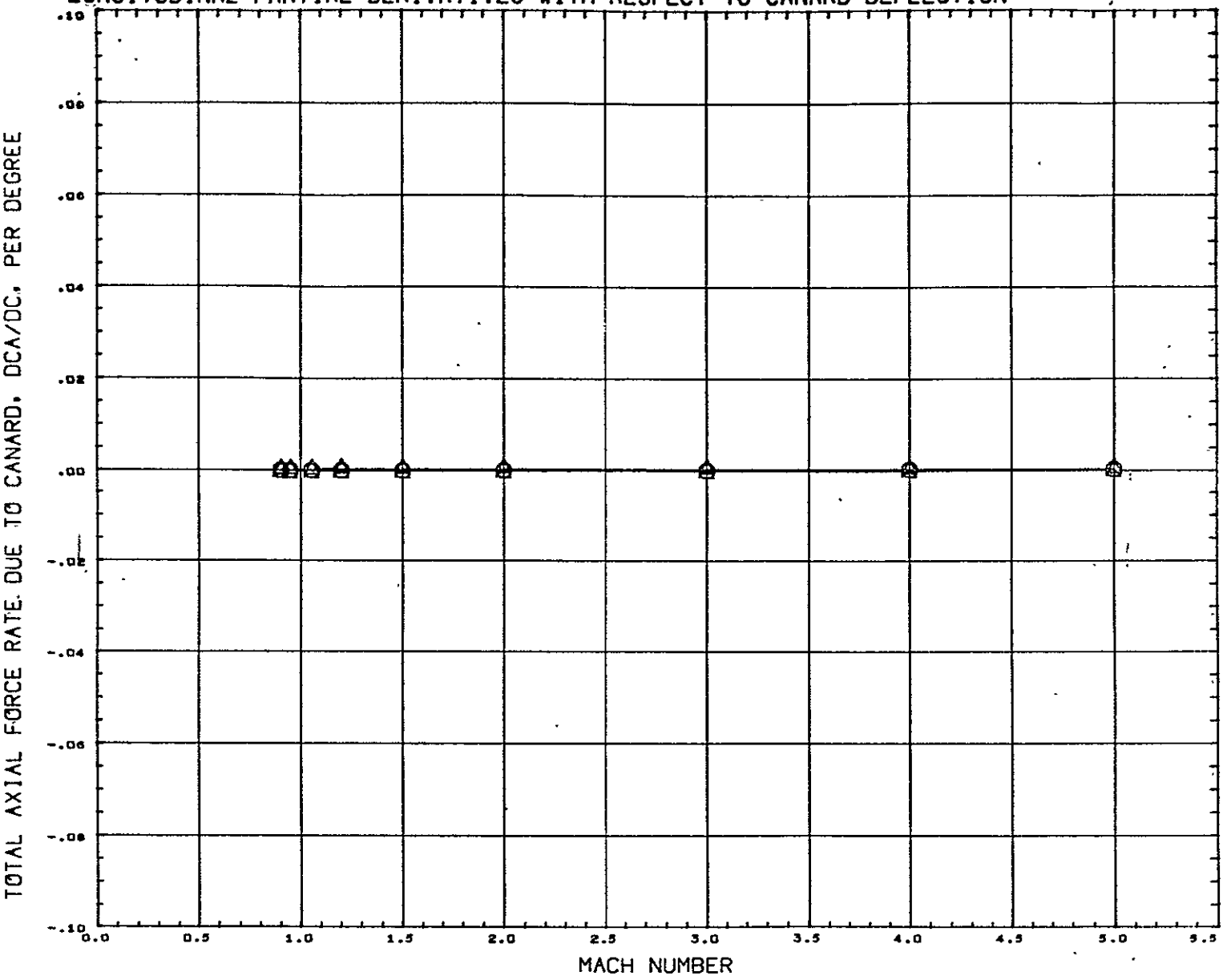
BETA	0.000	DEL	0.000
DER	0.000	ELEVON	0.000
CANARD	- 15.000	AILRON	0.000

DATA HIST. CODE HVR*EI*H*P

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION

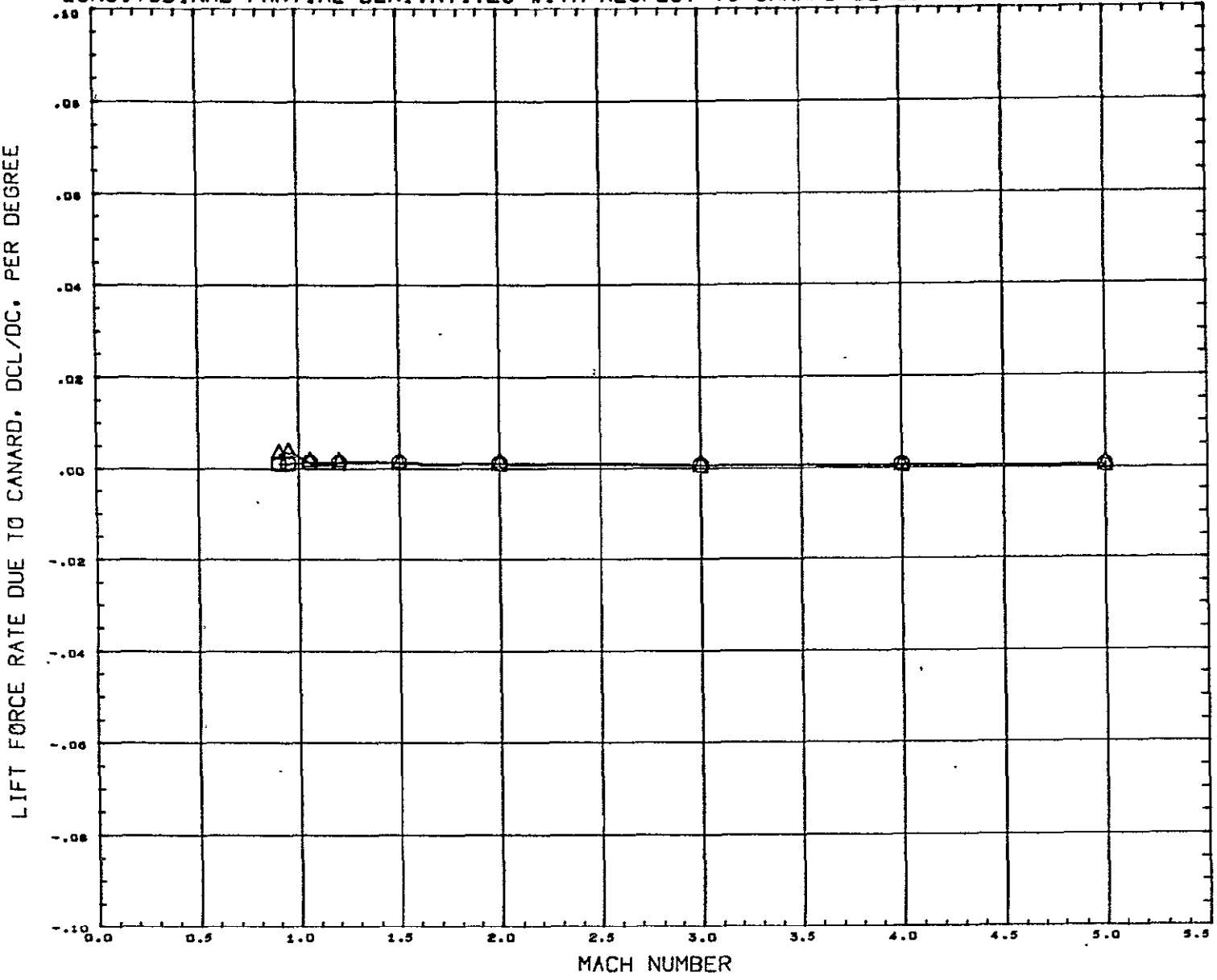


SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	ELEVON	0.000
		CANARD	- 15.000	AILRON	0.000

DATA HIST. CODE HVR*E1*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION

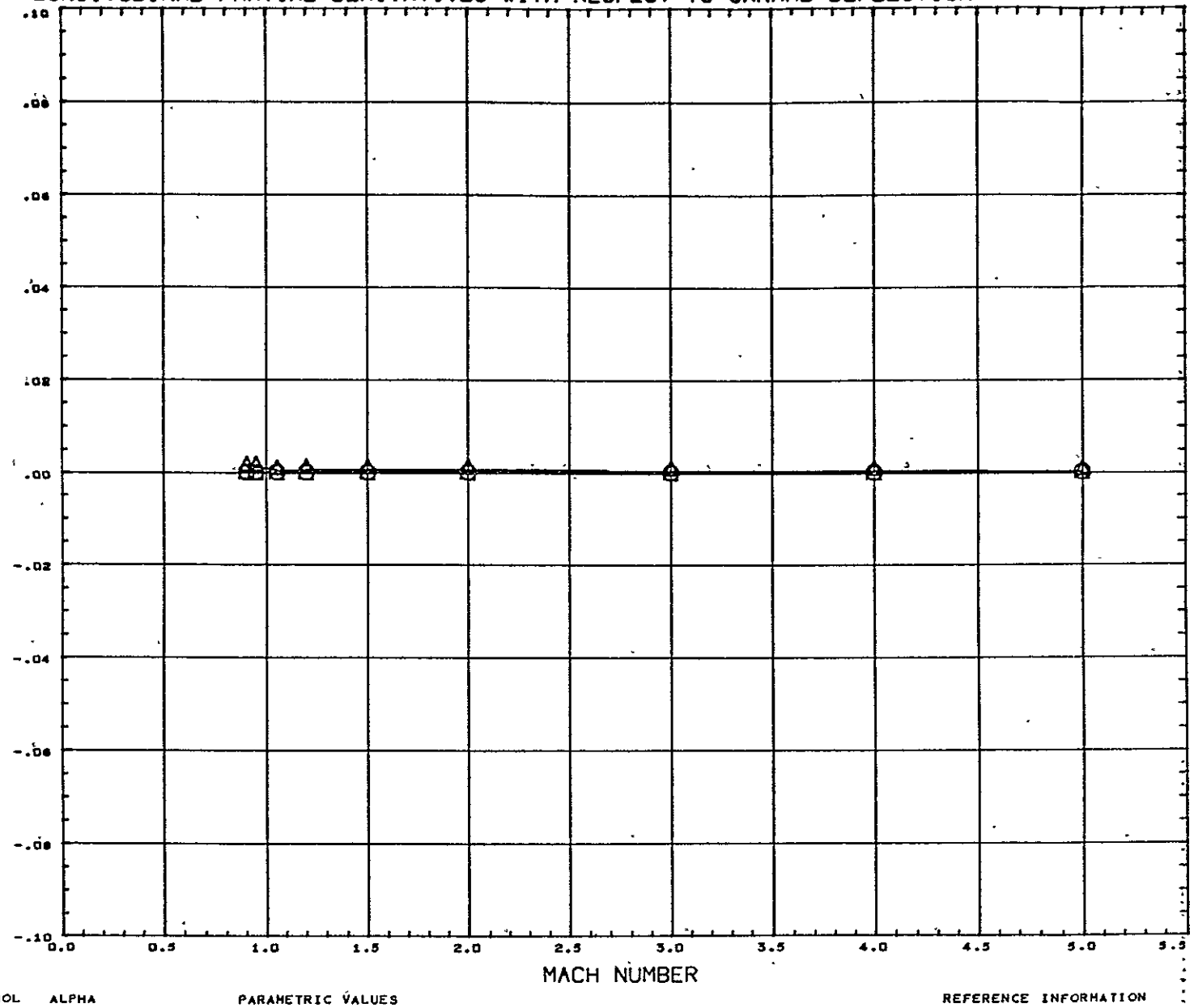


SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	ELEVON	0.000
		CANARD	-15.000	AILRON	0.000

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION

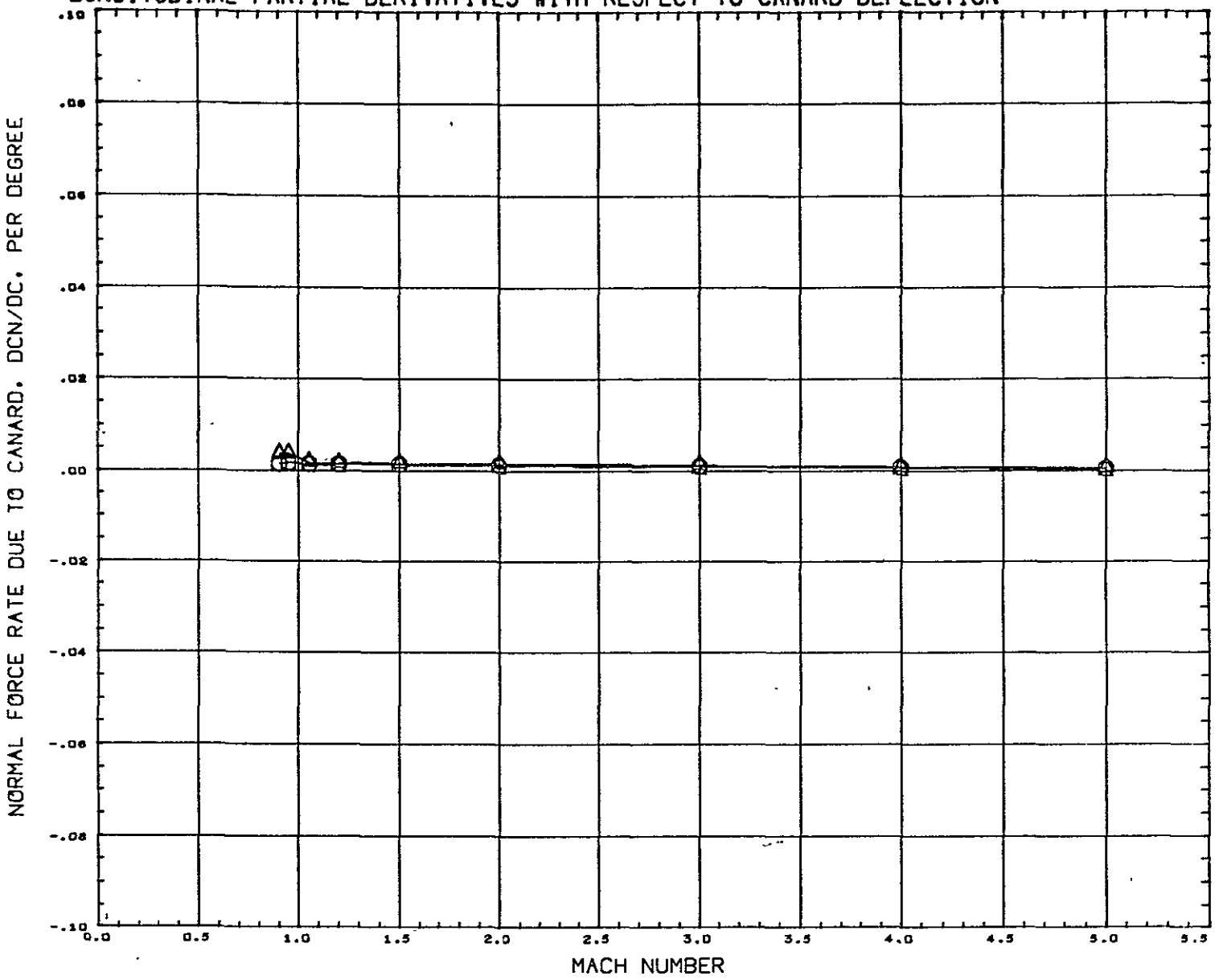


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	ELEVON	0.000
		CANARD	- 15.000	AILRON	0.000

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION

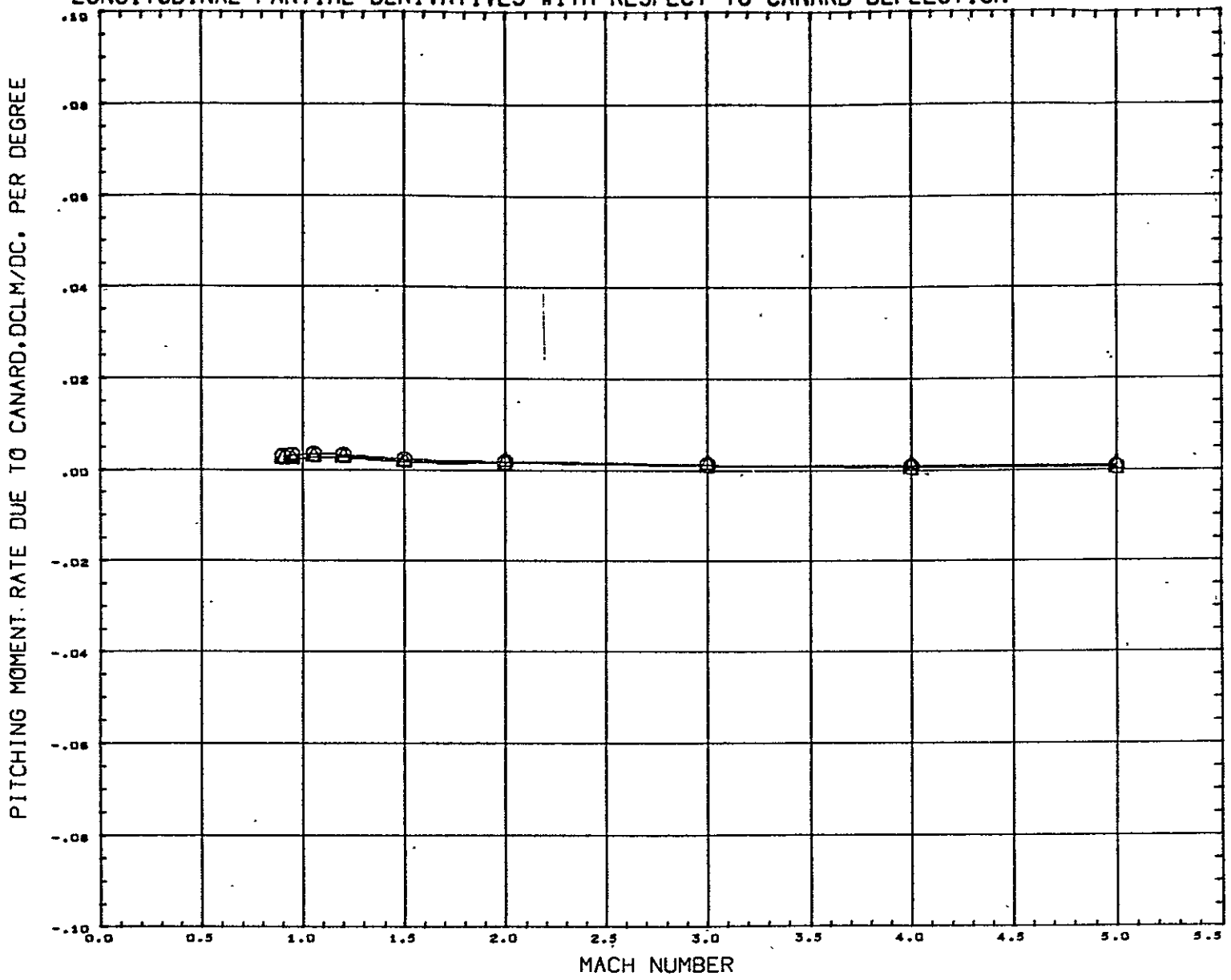


SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	ELEVON	0.000
		CANARD -	5.000	AILRON	0.000

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION

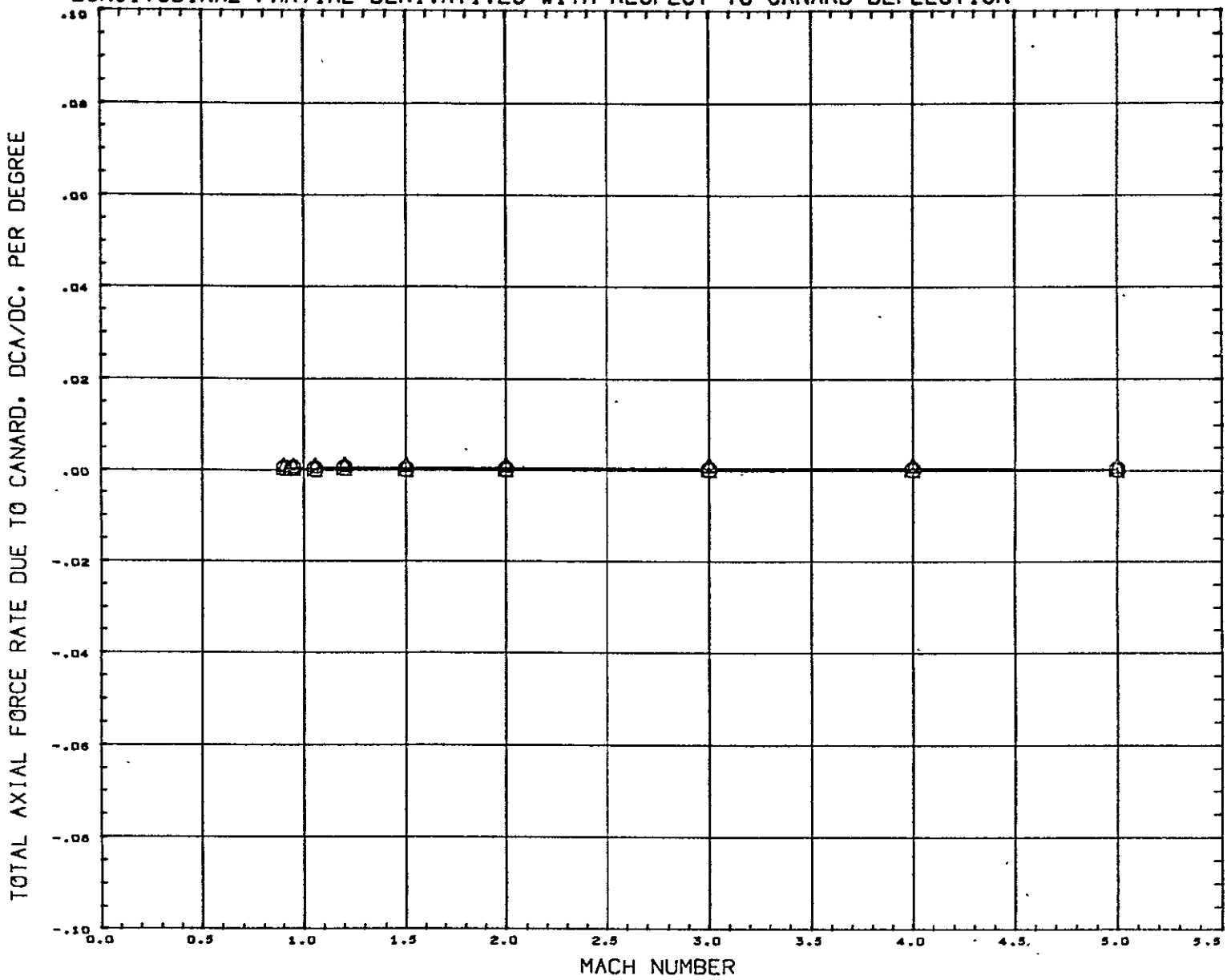


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	ELEVON	0.000
		CANARD	- 5.000	AILRON	0.000

DATA HIST. CODE _ MVR*EI*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	8.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION

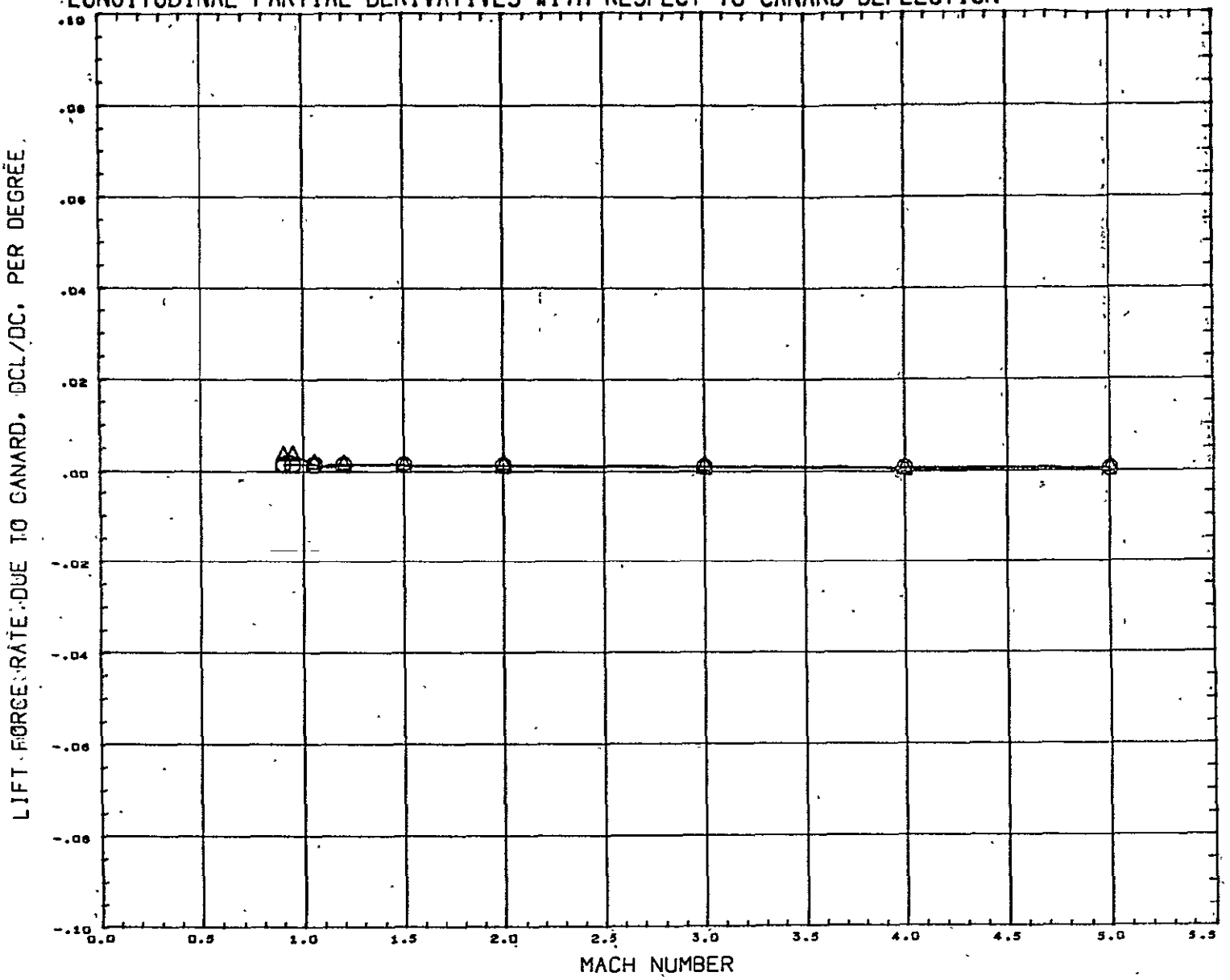


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	ELEVON	0.000
		CANARD	- 5.000	AILRON	0.000

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



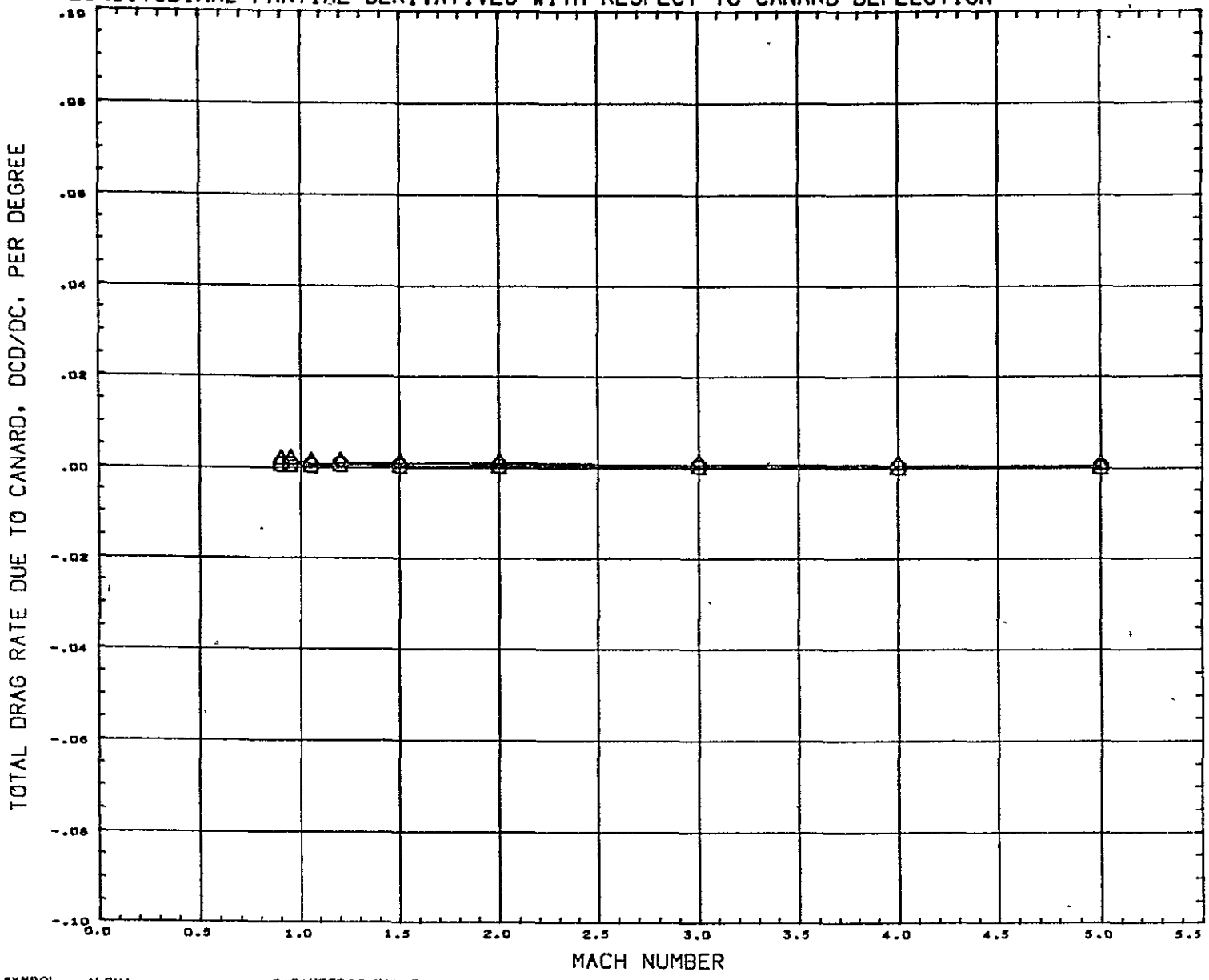
SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	ELEVON	0.000
		CANARD	-5.000	AILRON	0.000

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

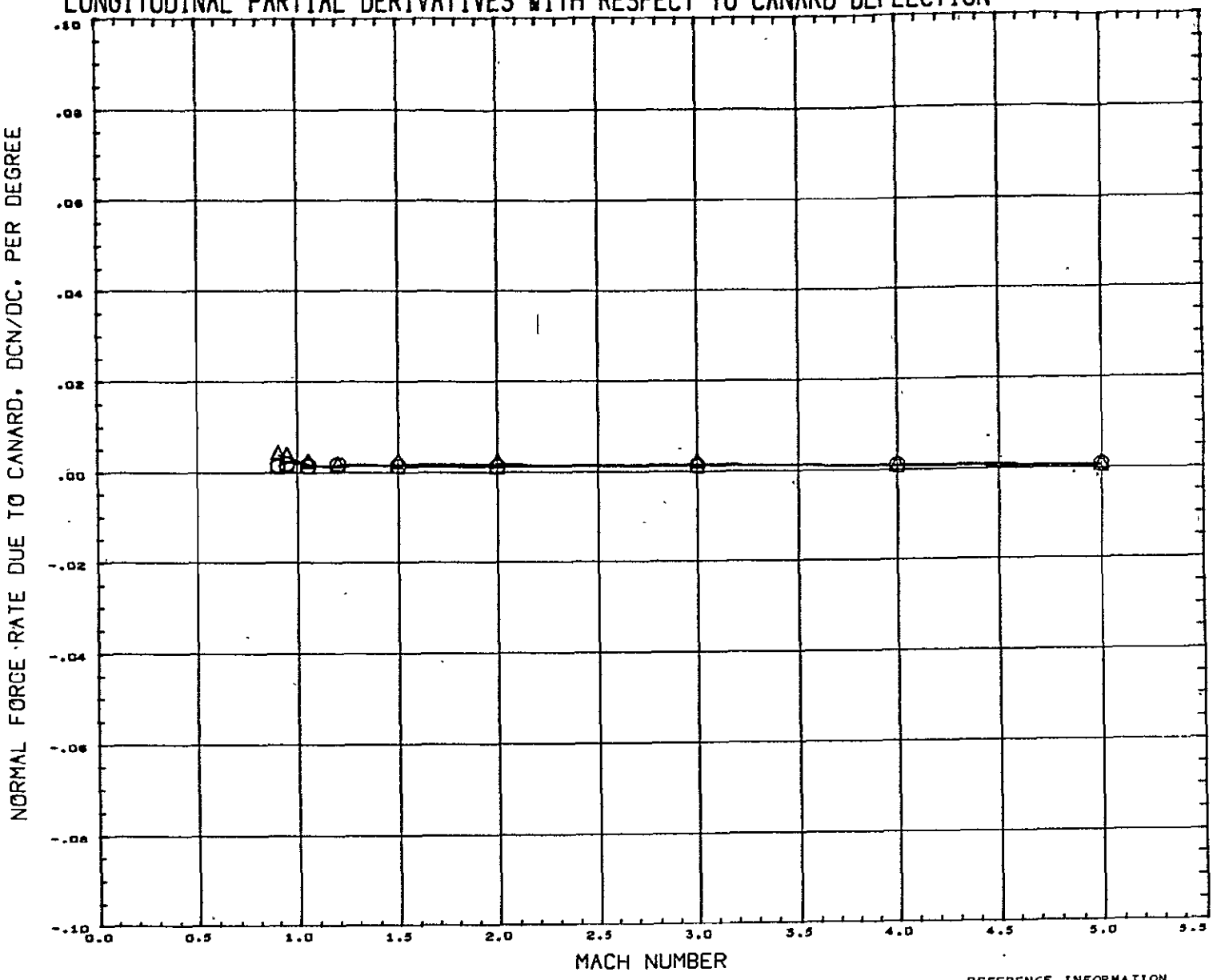
BETA	0.000	DEL	0.000
DER	0.000	ELEVON	0.000
CANARD -	5.000	AILRON	0.000

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



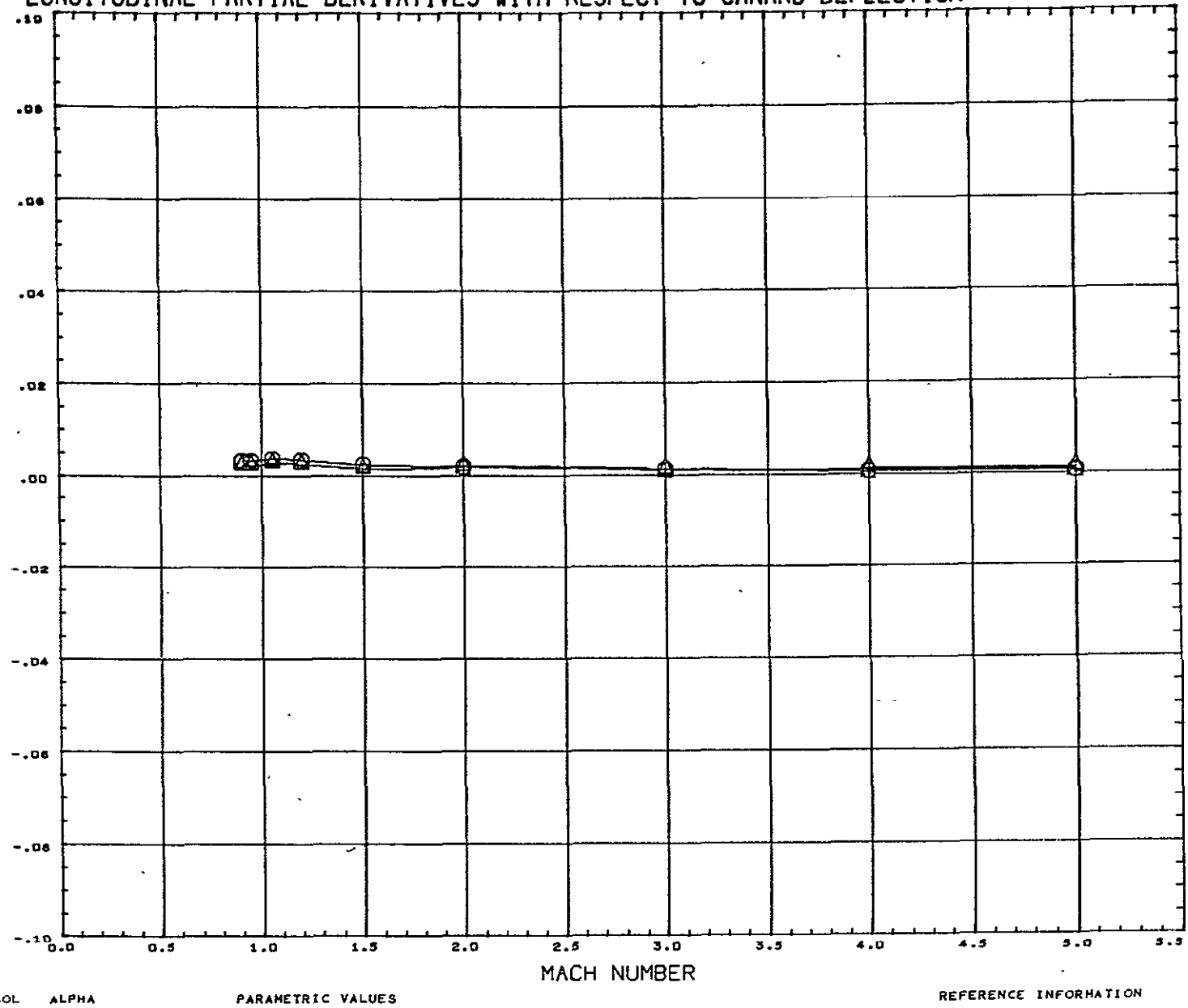
SYMBOL	ALPHA		PARAMETRIC VALUES		
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	ELEVON	0.000
		CANARD	5.000	AILRON	0.000

DATA HIST. CODE HVR*EI*H*P

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	ELEVON	0.000
		CANARD	5.000	AILRON	0.000

DATA HIST. CODE HVR*EI*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
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BREF	6.0990	IN.
XMRP	6.7100	IN.
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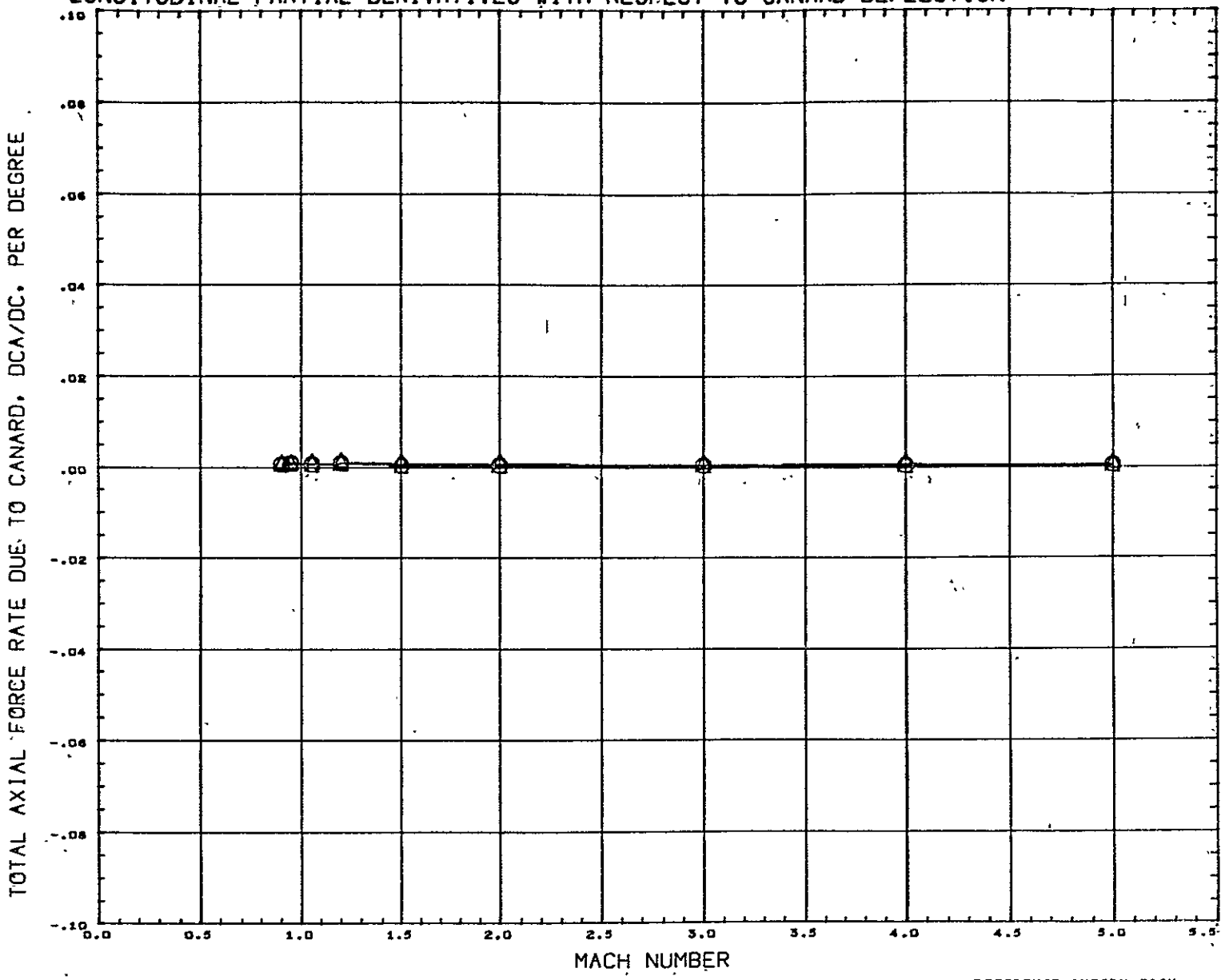
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION

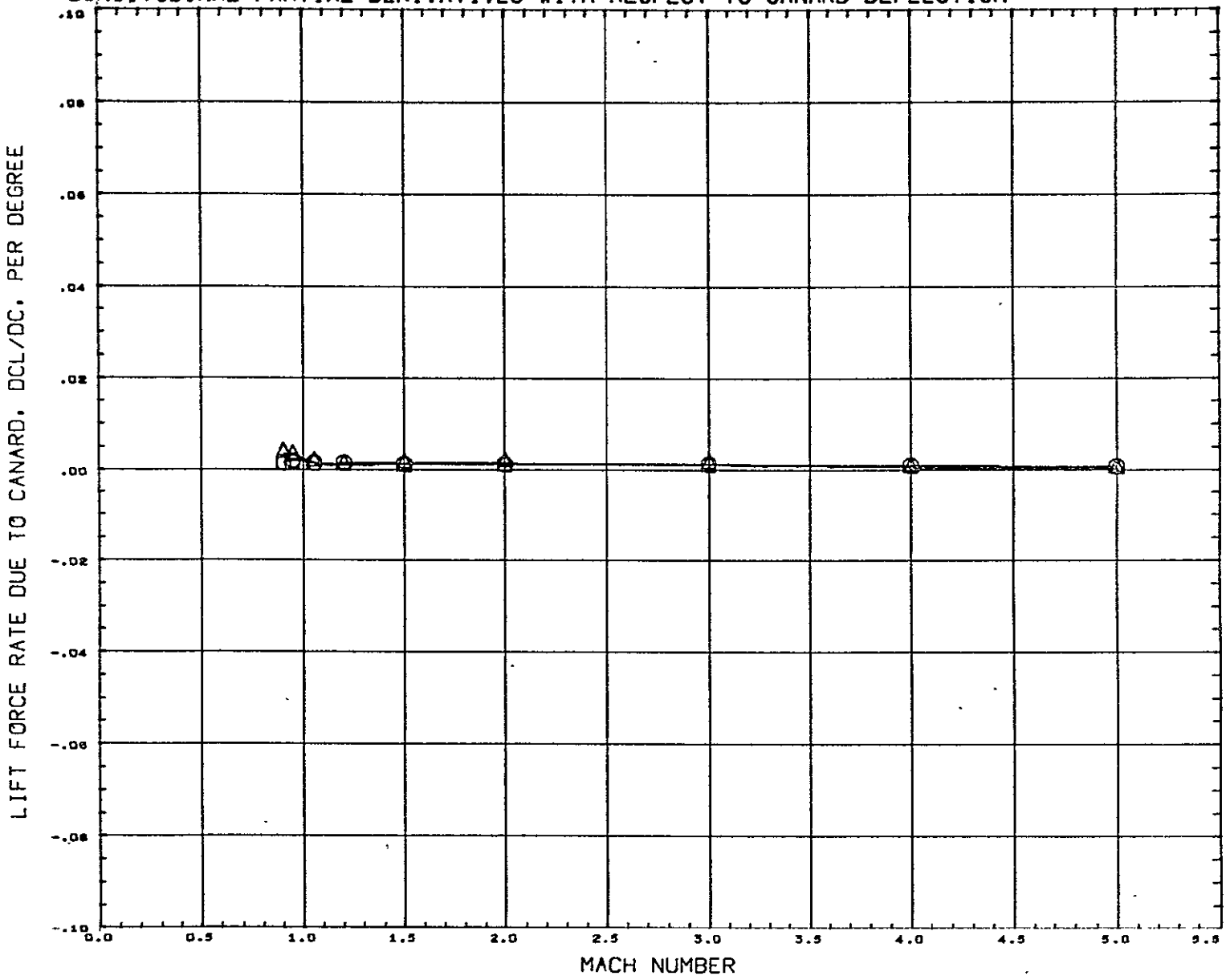


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DER	0.000	ELEVON	0.000
		CANARD	5.000	AILRON	0.000

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

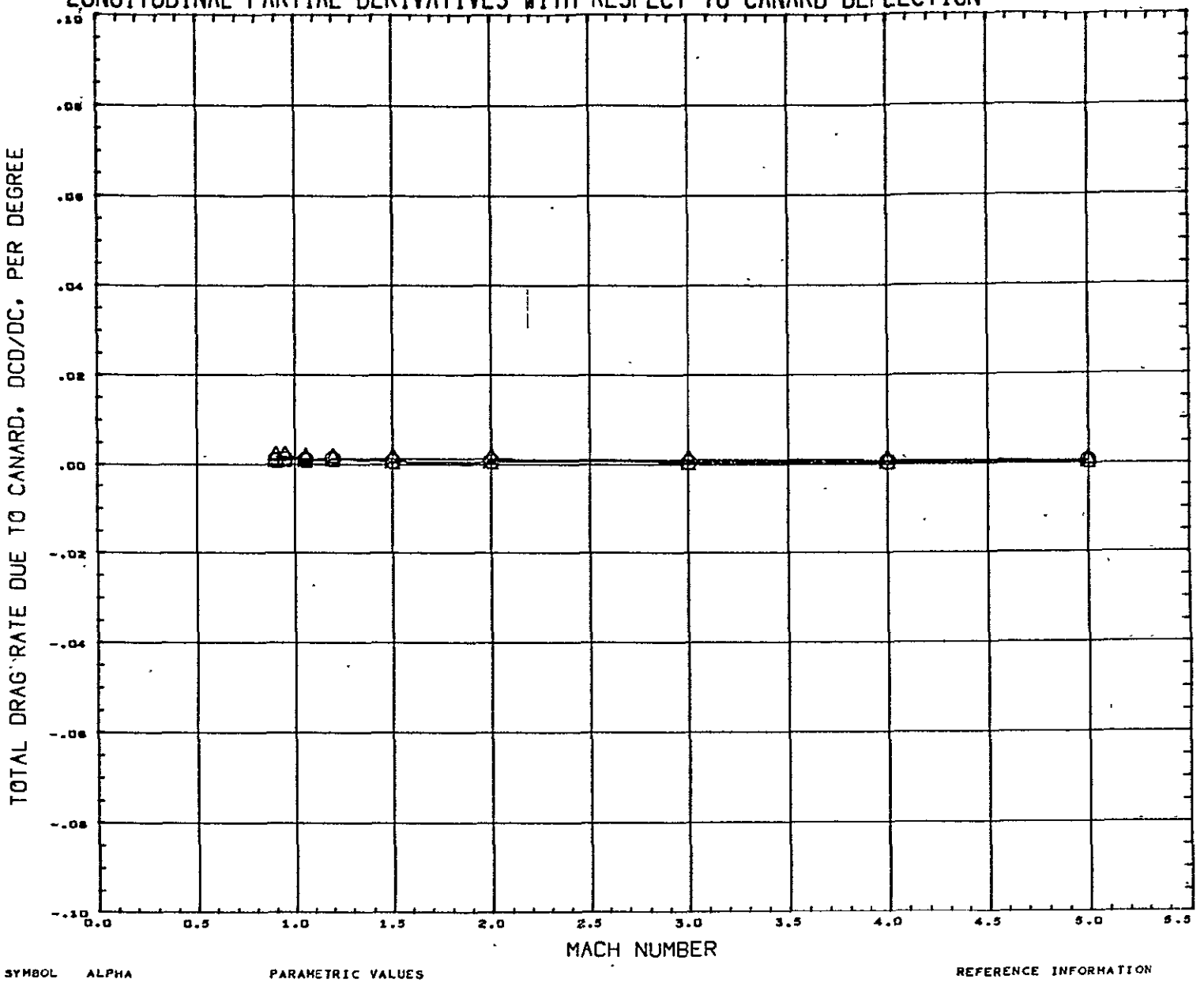
BETA	0.000	DEL	0.000
DER	0.000	ELEVON	0.000
CANARD	5.000	AILRON	0.000

DATA HIST. CODE MVR*EI*H*P

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL PARTIAL DERIVATIVES WITH RESPECT TO CANARD DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

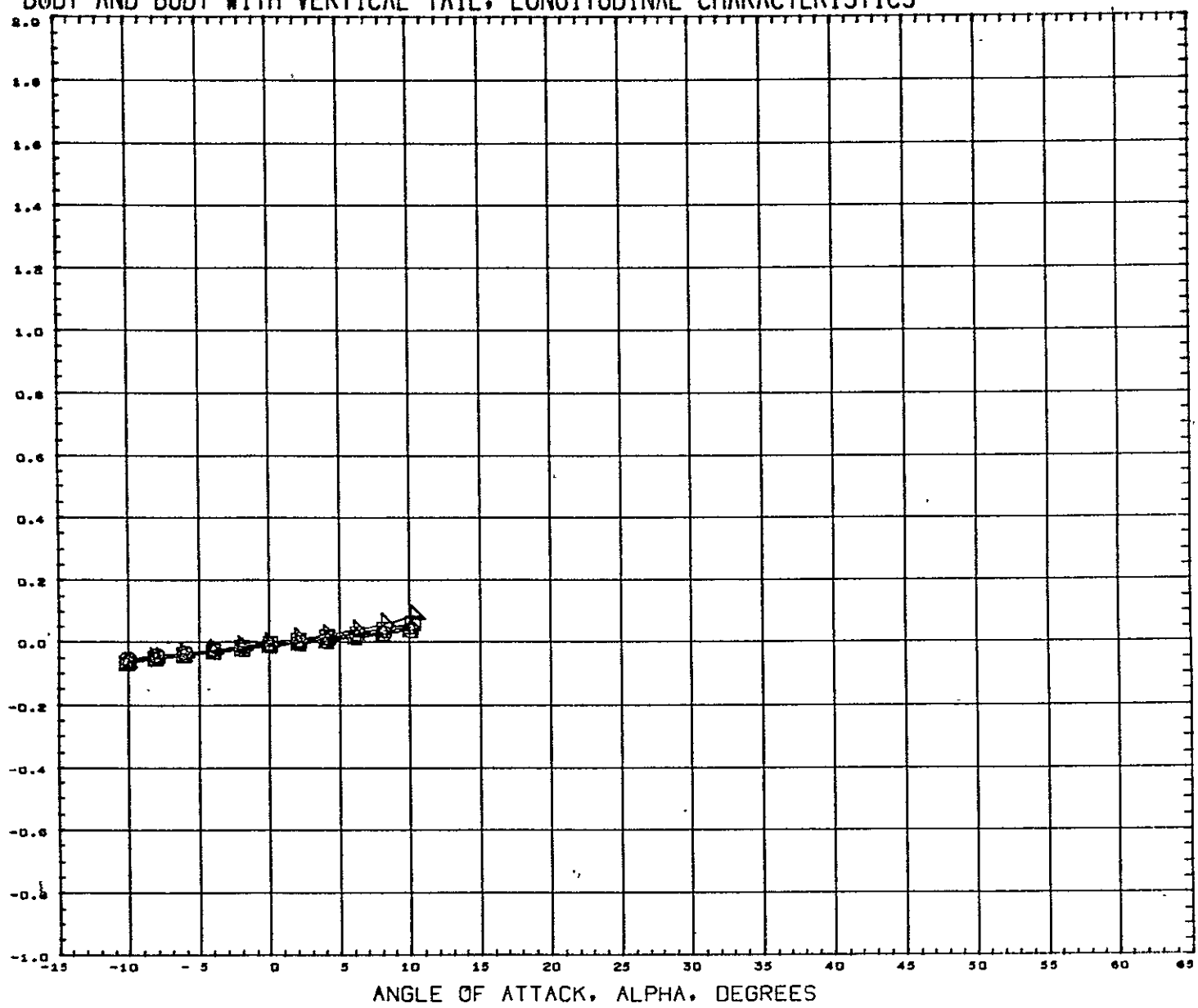
BETA	0.000	DEL	0.000
DER	0.000	ELEVON	0.000
CANARD	5.000	AILRON	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

DATA HIST. CODE MVR*E1*H*P

BODY AND BODY WITH VERTICAL TAIL, LONGITUDINAL CHARACTERISTICS



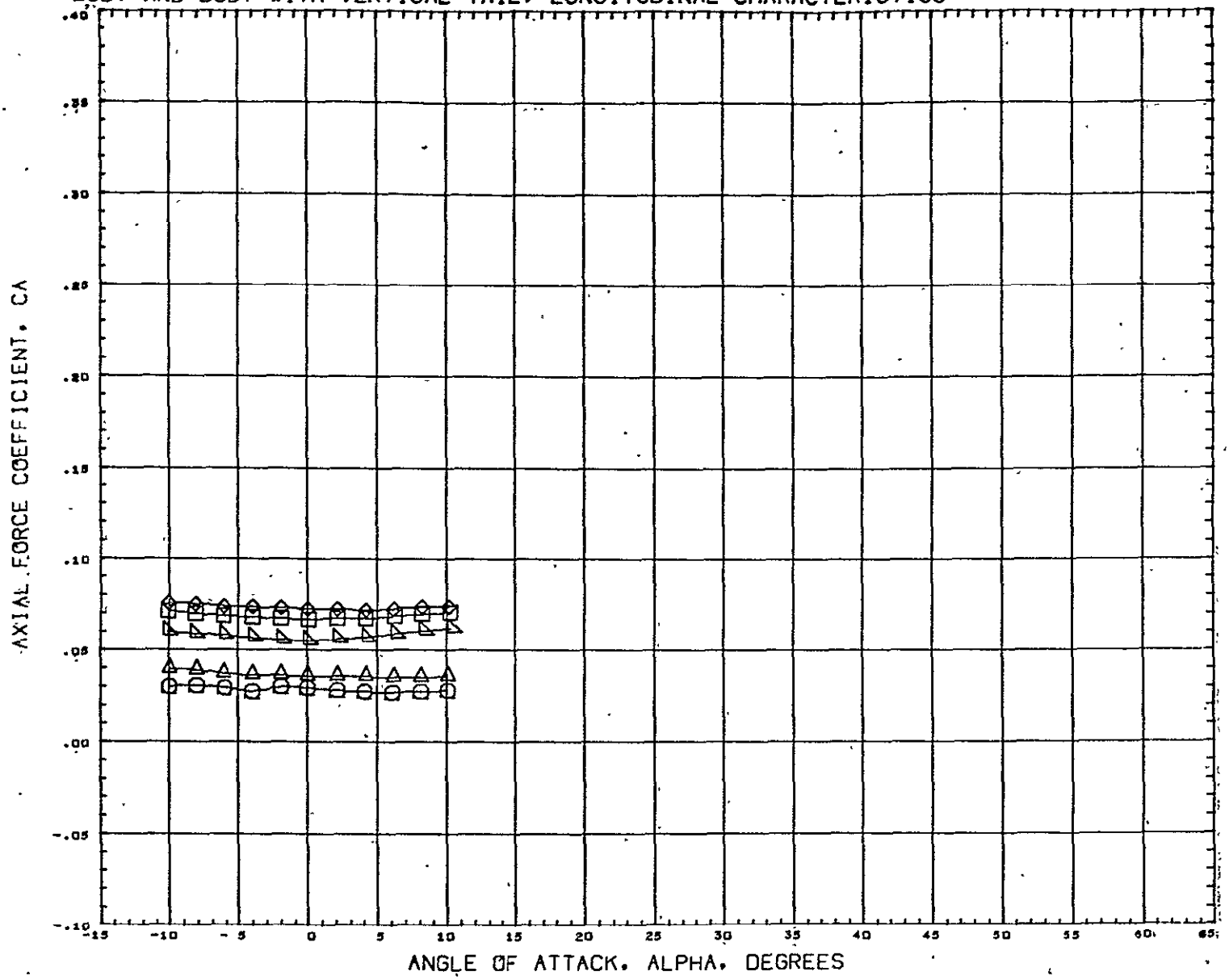
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.610	BETA	0.000
△	0.901		
◇	1.105		
□	1.461		
◁	1.966		

DATA HIST. CODE HVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY AND BODY WITH VERTICAL TAIL. LONGITUDINAL CHARACTERISTICS



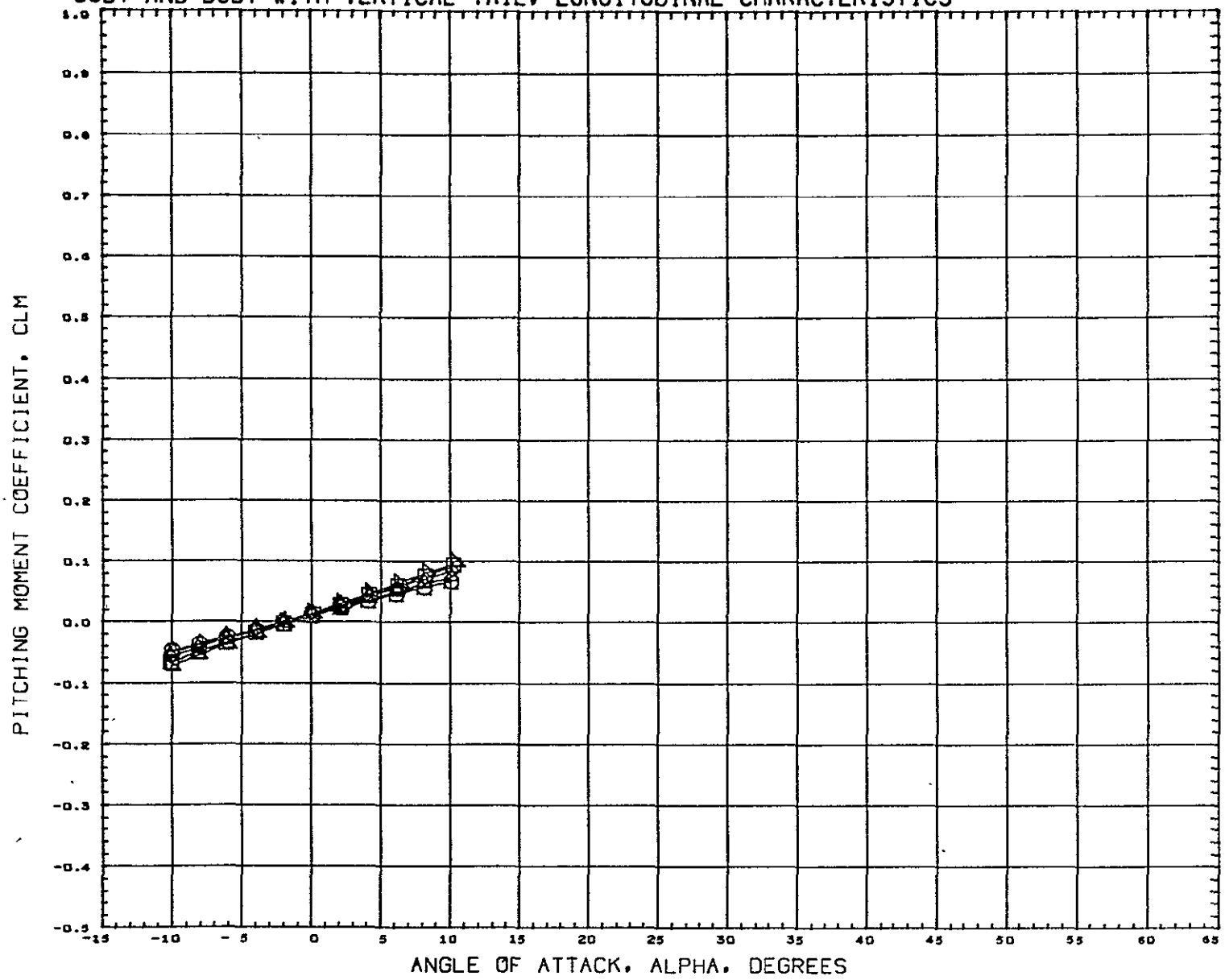
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.610	BETA	0.000
△	0.901		
◇	1.105		
□	1.461		
▽	1.966		

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY AND BODY WITH VERTICAL TAIL, LONGITUDINAL CHARACTERISTICS



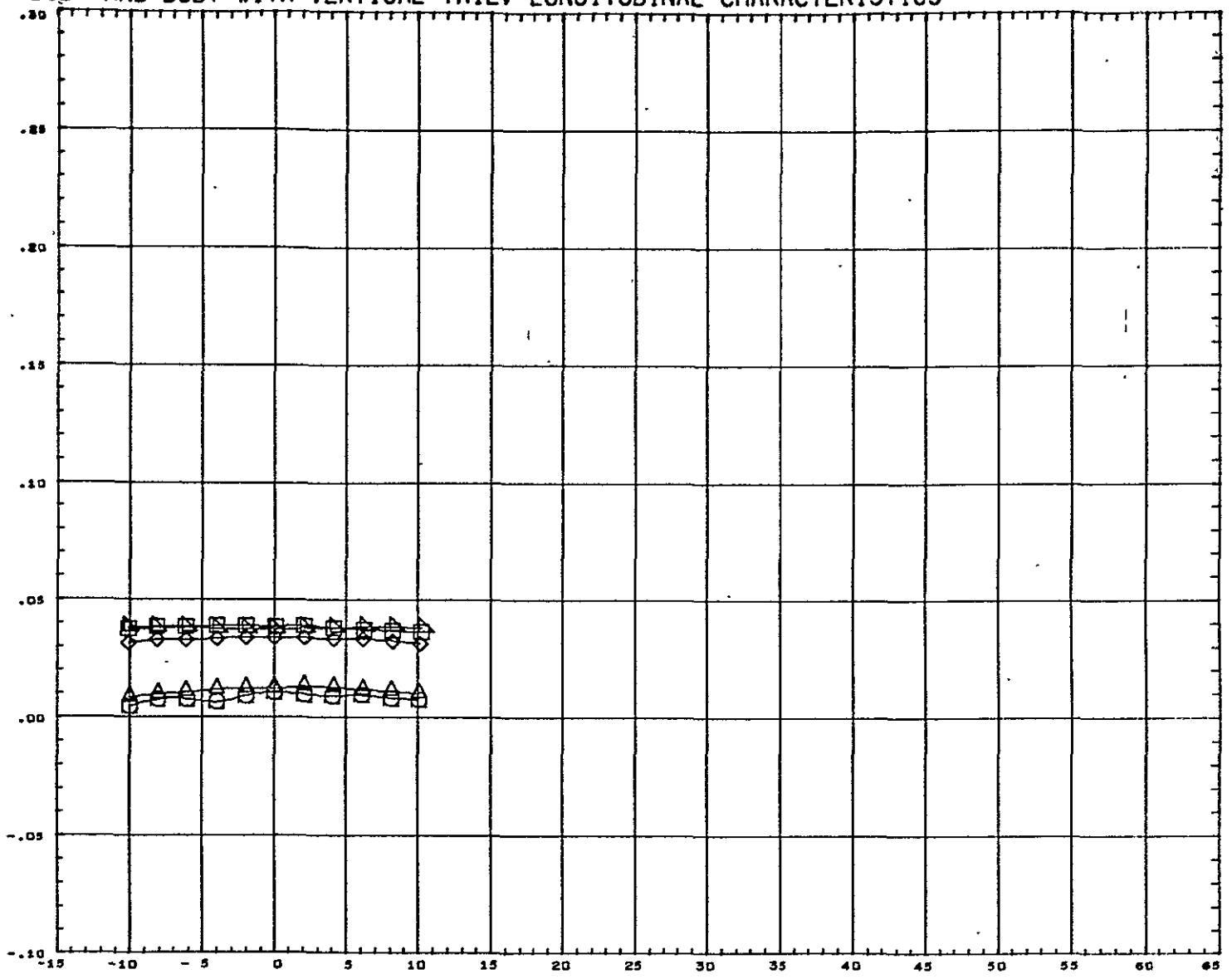
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.610	BETA	0.000
△	0.901		
◇	1.105		
□	1.461		
◸	1.906		

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY AND BODY WITH VERTICAL TAIL, LONGITUDINAL CHARACTERISTICS



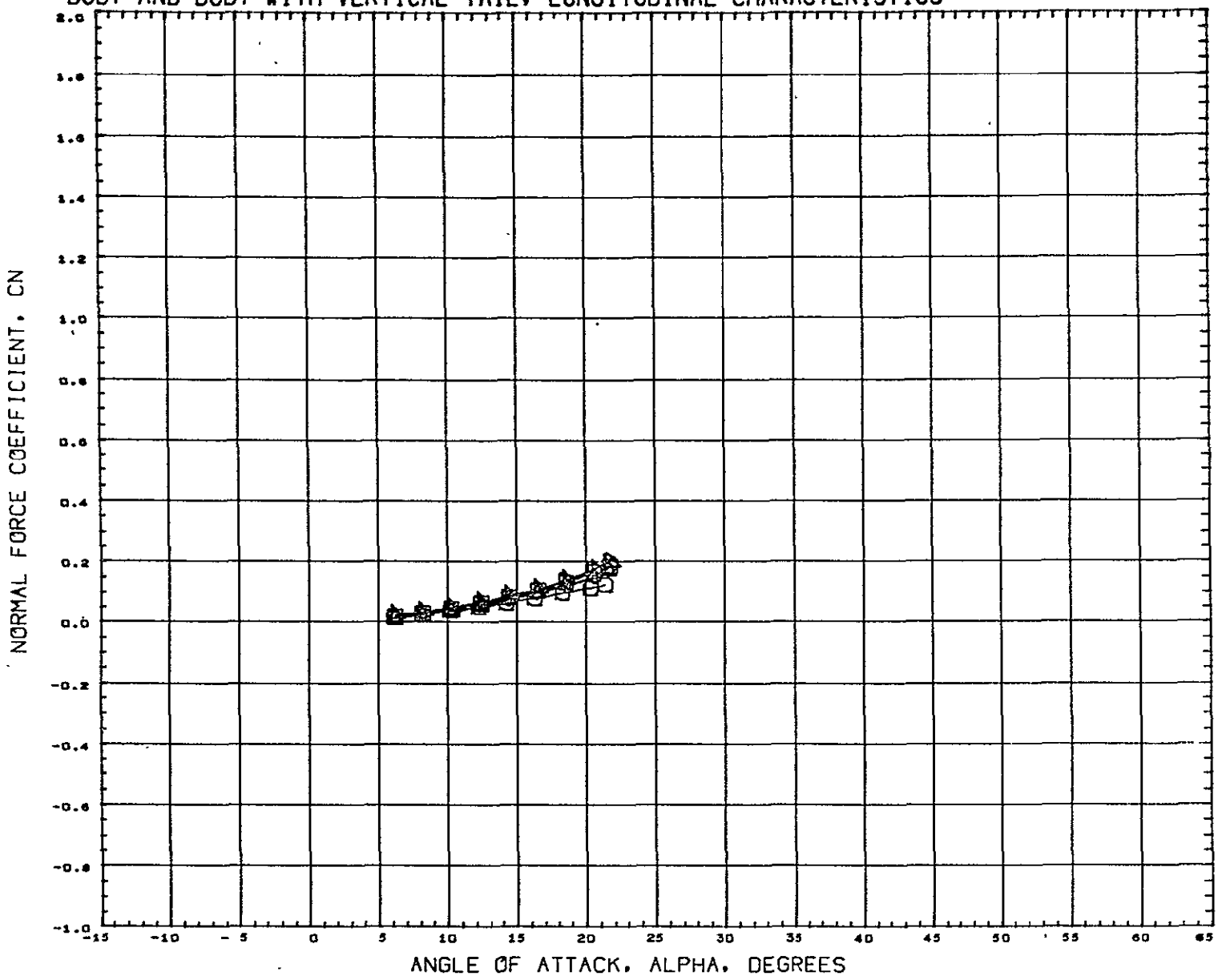
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.610	BETA	0.000
△	0.901		
◇	1.105		
□	1.461		
▽	1.966		

DATA HIST. CODE HVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

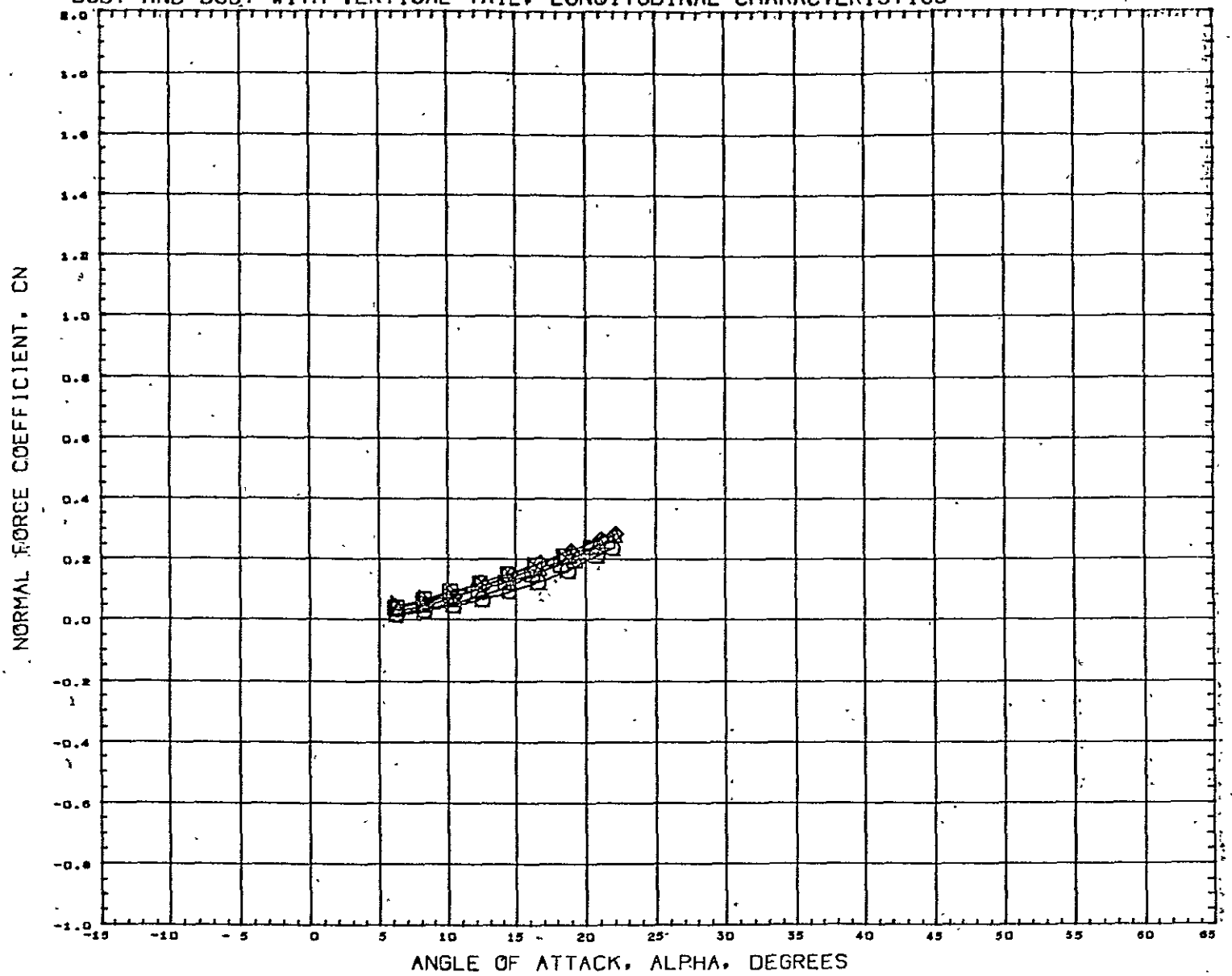
BODY AND BODY WITH VERTICAL TAIL, LONGITUDINAL CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.607	BETA	0.000	RUDDER	0.000
△	0.907				
◇	0.957				
□	1.005				
▽	1.054				
D	1.100	DATA HIST. CODE	MVR#E		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY AND BODY WITH VERTICAL TAIL, LONGITUDINAL CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES			
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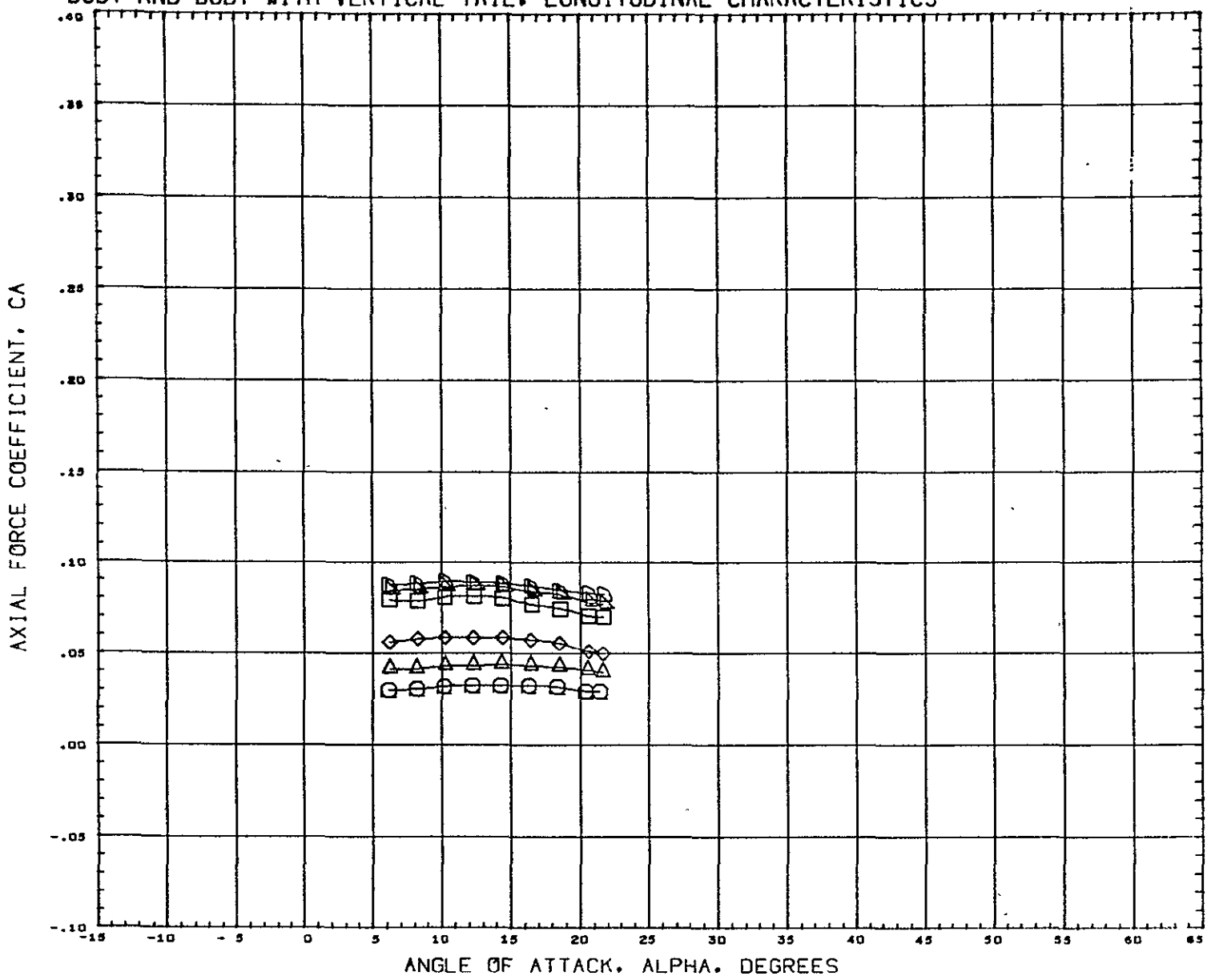
△	1.463				
◇	1.966				
□	2.990				
▽	4.000				
D	4.960	DATA HIST. CODE	MVR*E		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

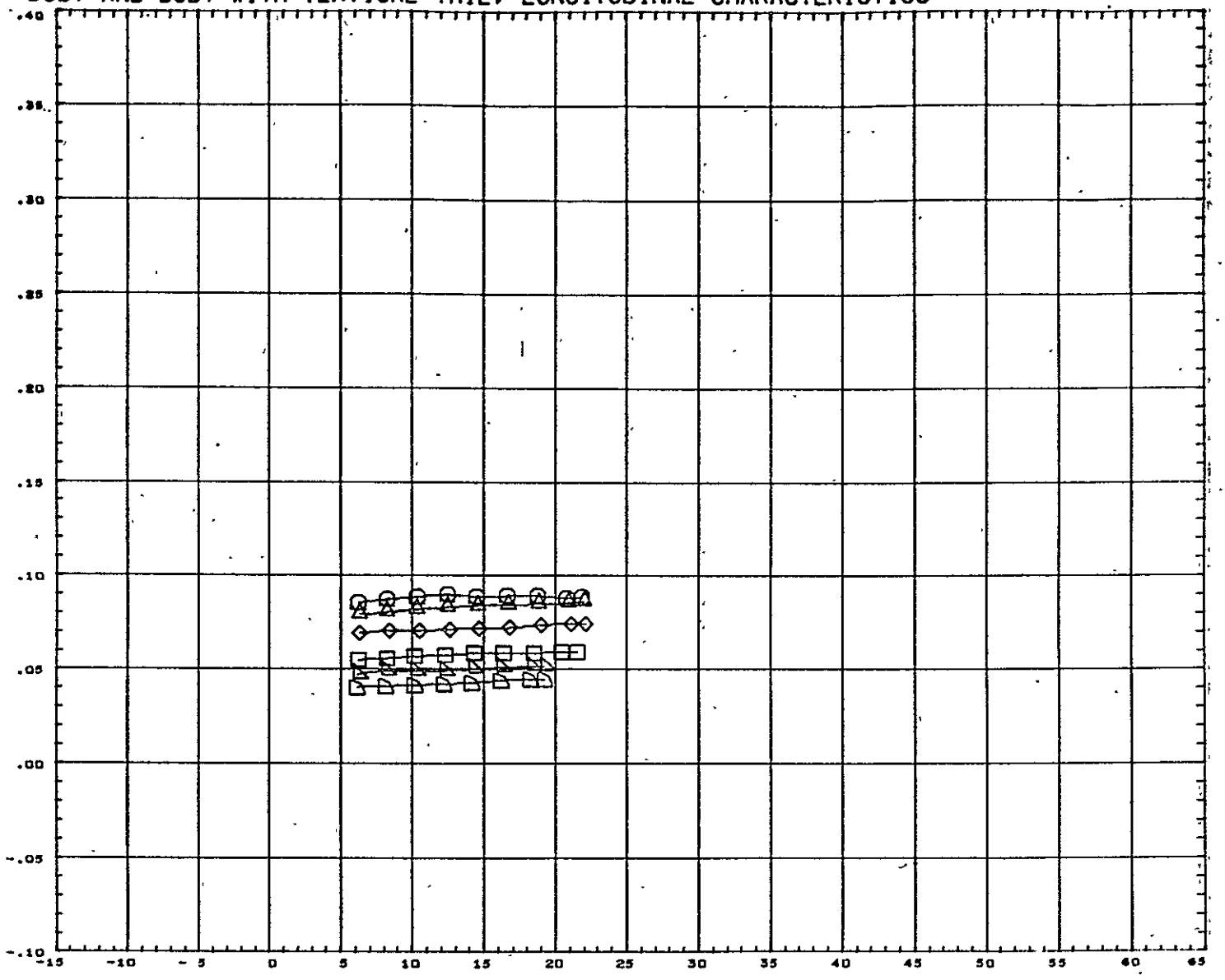
BODY AND BODY WITH VERTICAL TAIL. LONGITUDINAL CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.607	BETA	0.000	RUDDER	0.000
△	0.907				
◇	0.957				
□	1.005				
▽	1.054				
⬠	1.100	DATA HIST. CODE	MVR#E		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

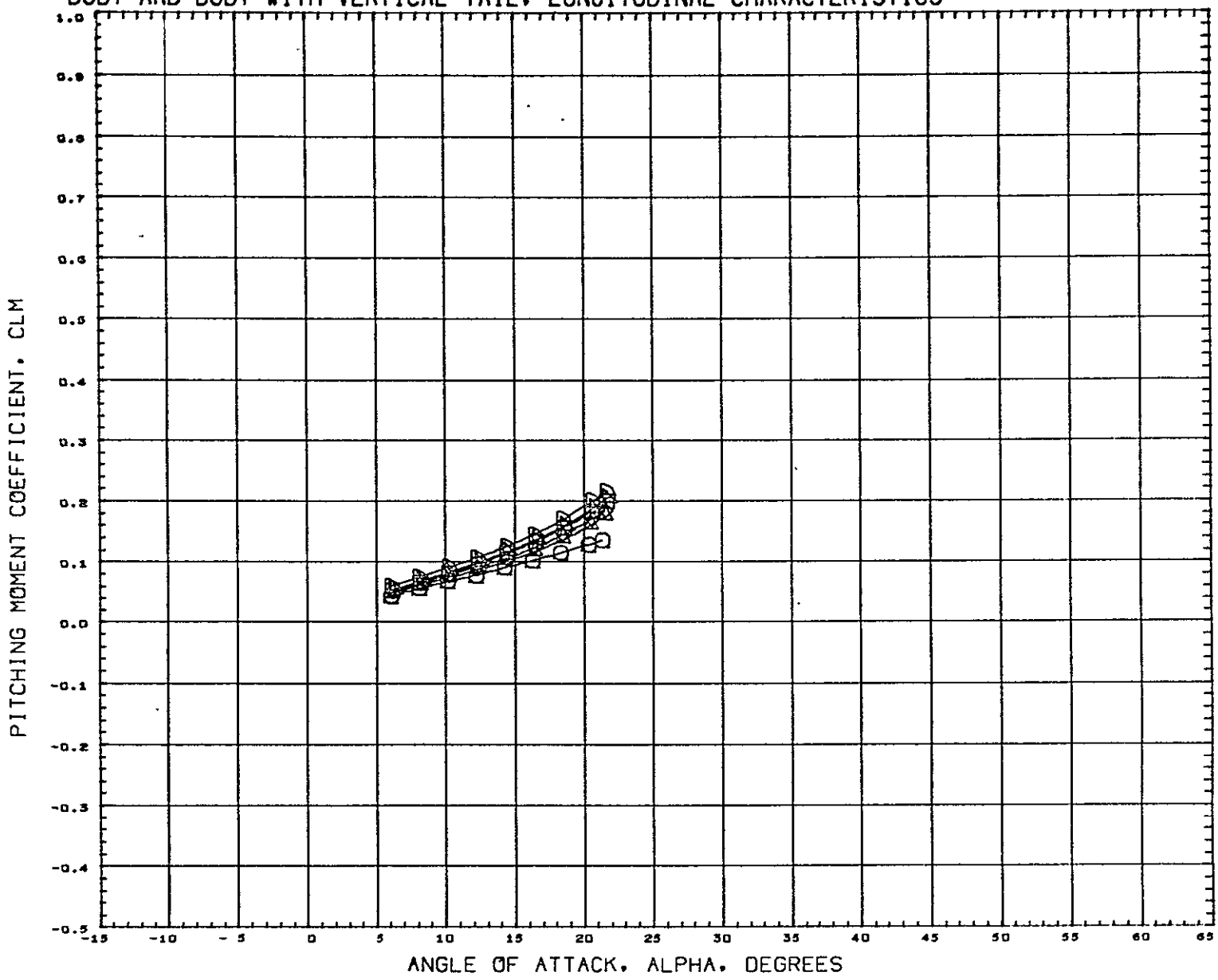
BODY AND BODY WITH VERTICAL TAIL, LONGITUDINAL CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES			
○	1.196	BETA	0.000	RUDDER	0.000
△	1.463				
◇	1.966				
□	2.990				
▽	4.000				
▷	4.960	DATA HIST. CODE	MVR*E		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

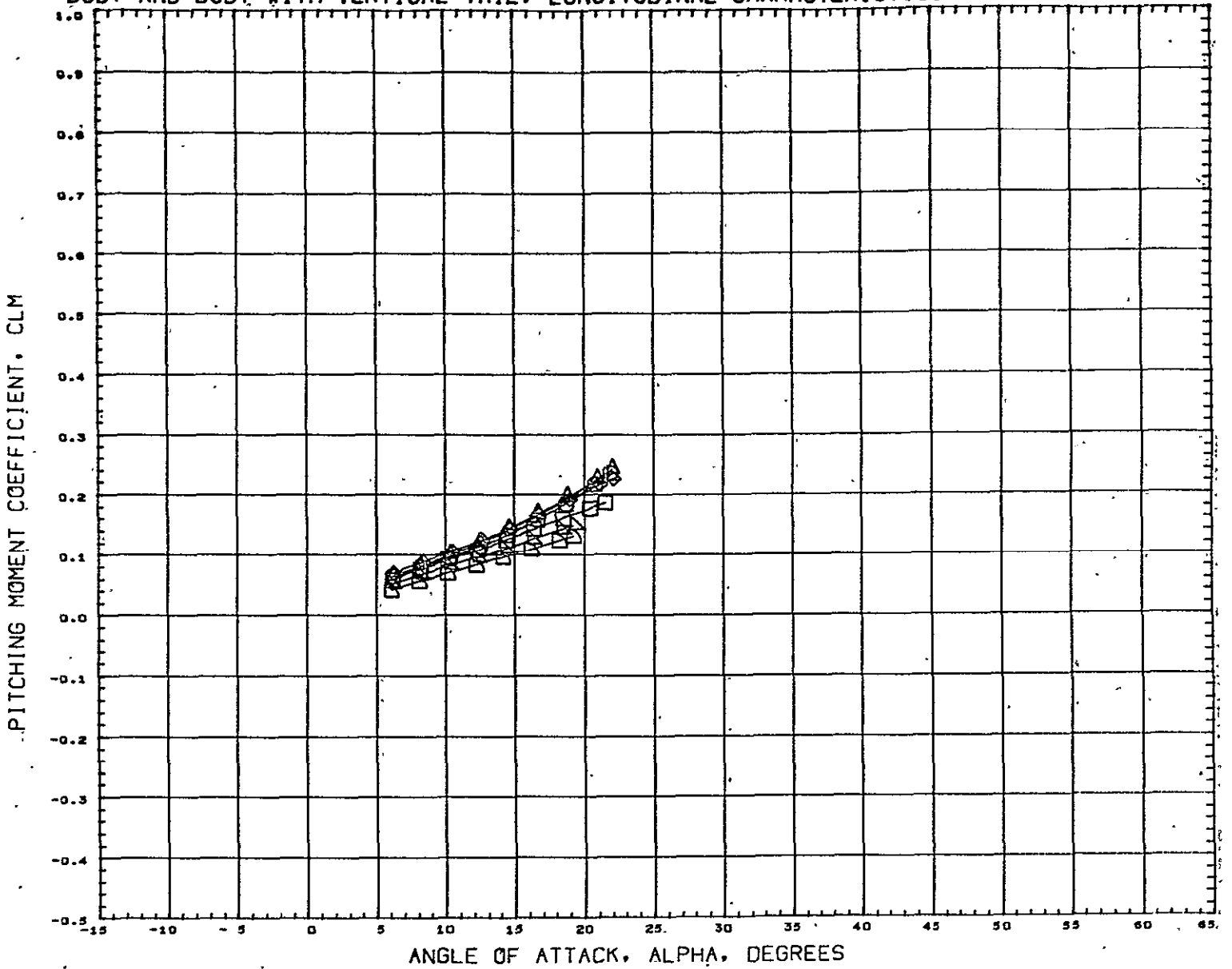
BODY AND BODY WITH VERTICAL TAIL. LONGITUDINAL CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.607	BETA	0.000	RUDDER	0.000
▽	0.907				
◇	0.957				
□	1.005				
◸	1.054				
D	1.100	DATA HIST. CODE	HVR*E		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

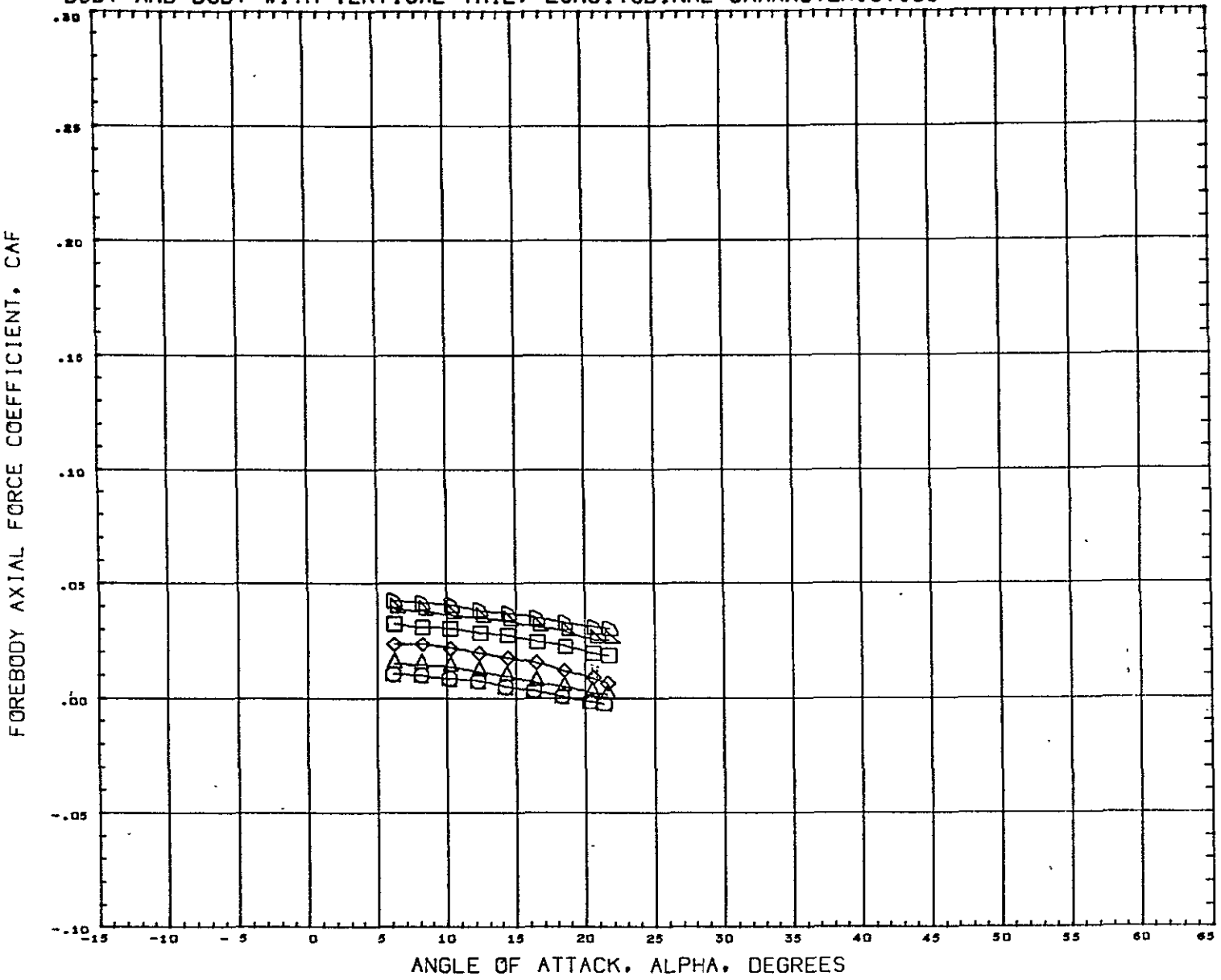
BODY AND BODY WITH VERTICAL TAIL. LONGITUDINAL CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES			
○	1.196	BETA	0.000	RUDDER	0.000
△	1.463				
◇	1.966				
□	2.990				
▽	4.000				
D	4.960	DATA HIST. CODE	MVR*E		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

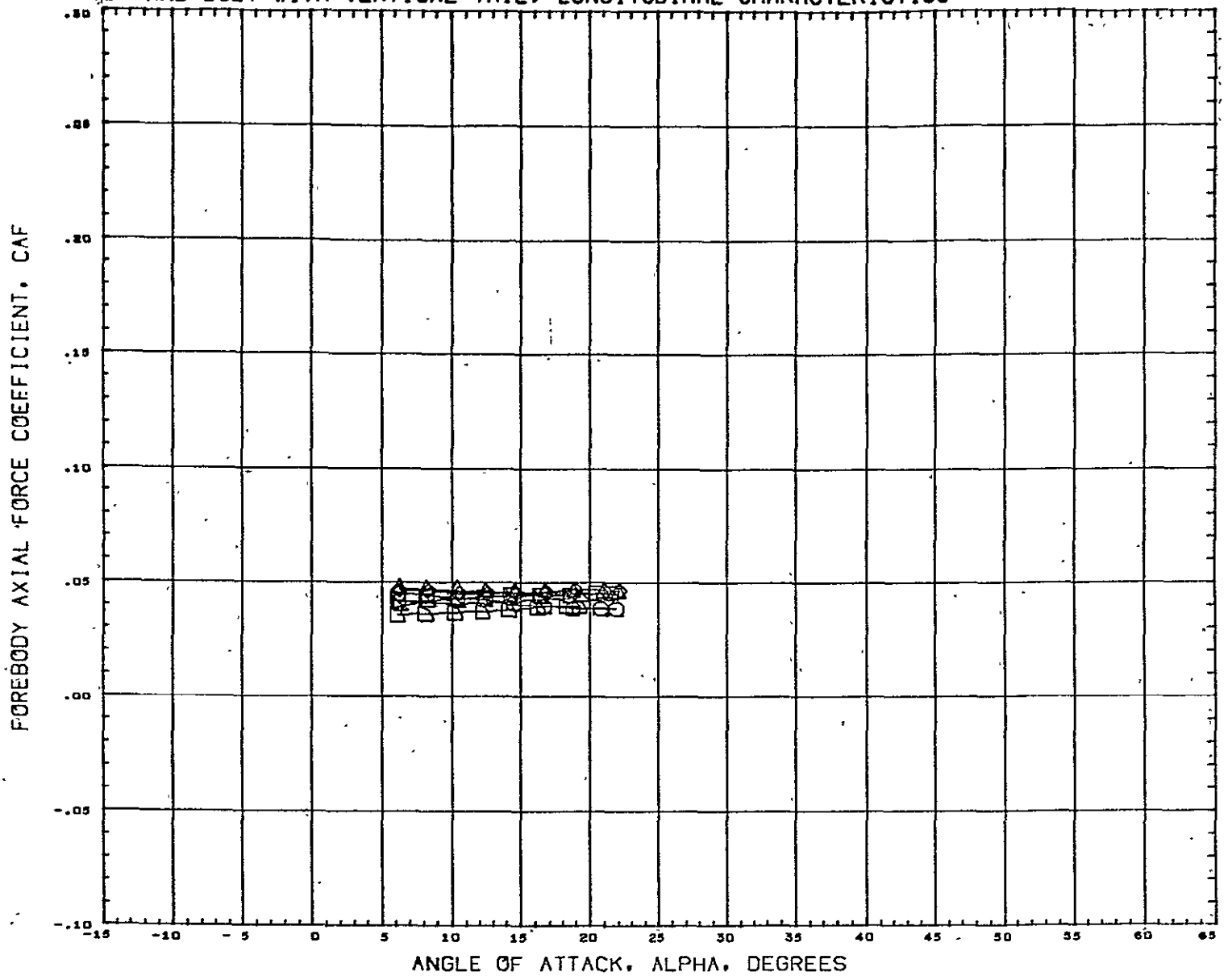
BODY AND BODY WITH VERTICAL TAIL, LONGITUDINAL CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.607	BETA	0.000	RUDDER	0.000
△	0.907				
◇	0.957				
□	1.005				
◸	1.054				
D	1.100	DATA HIST. CODE		MVR*E	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

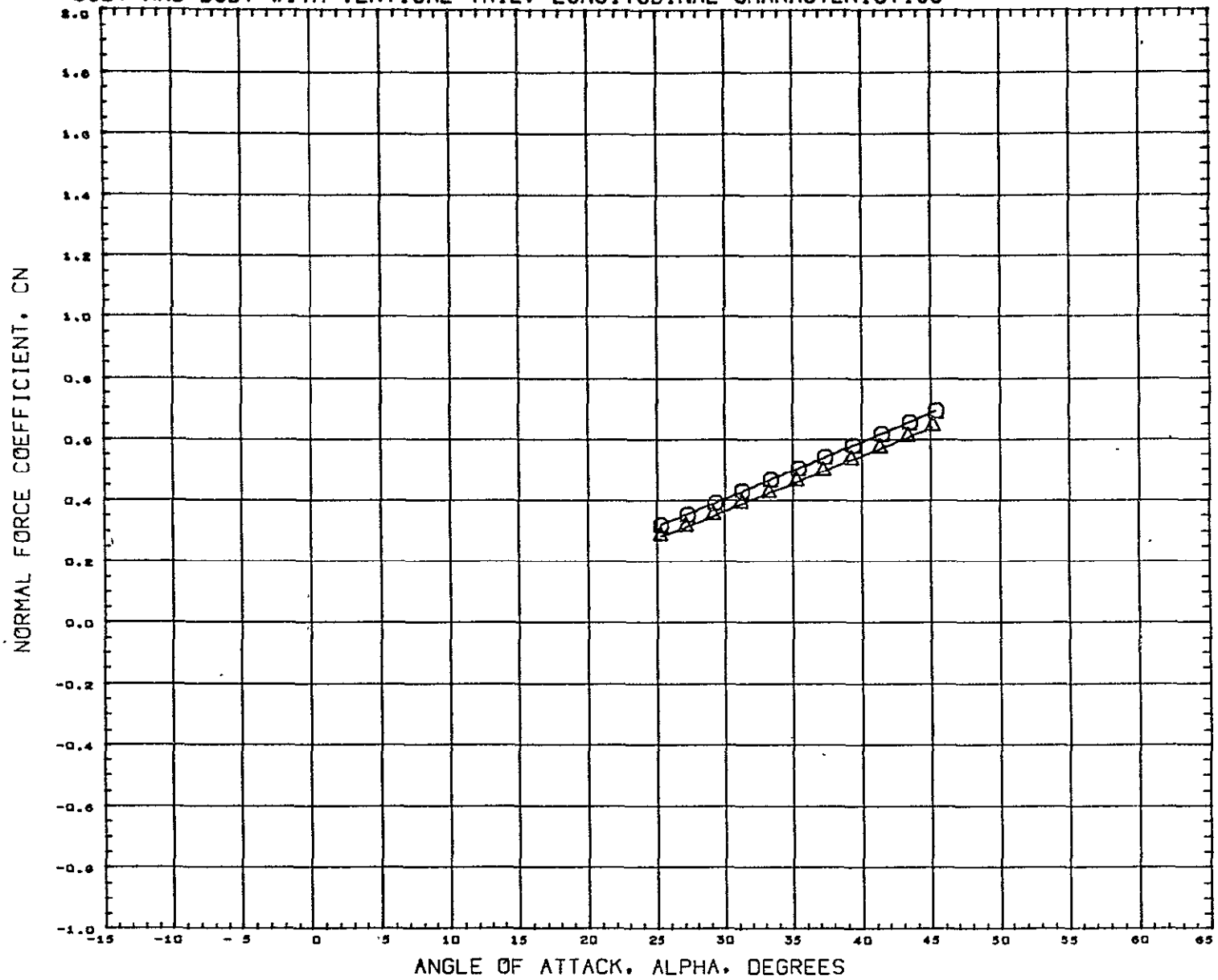
BODY AND BODY WITH VERTICAL TAIL. LONGITUDINAL CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES			
○	1.198	BETA	0.000	RUDDER	0.000
△	1.465				
◇	1.966				
□	2.990				
▽	4.000				
D	4.960	DATA HIST. CODE	MVR*E		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY AND BODY WITH VERTICAL TAIL. LONGITUDINAL CHARACTERISTICS



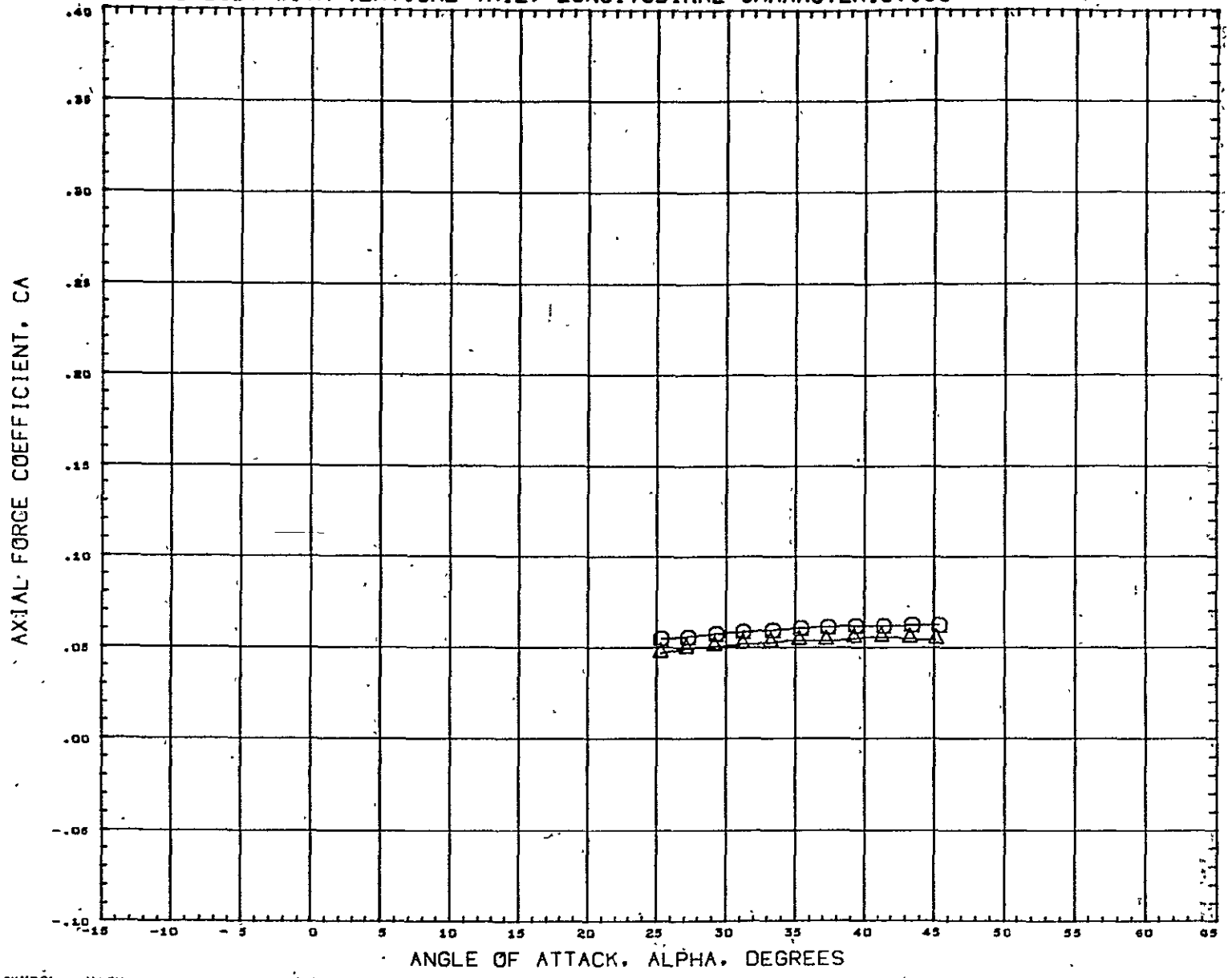
SYMBOL	MACH	PARAMETRIC VALUES	
○	2.990	BETA	0.000
△	4.959		

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY AND BODY WITH VERTICAL TAIL, LONGITUDINAL CHARACTERISTICS



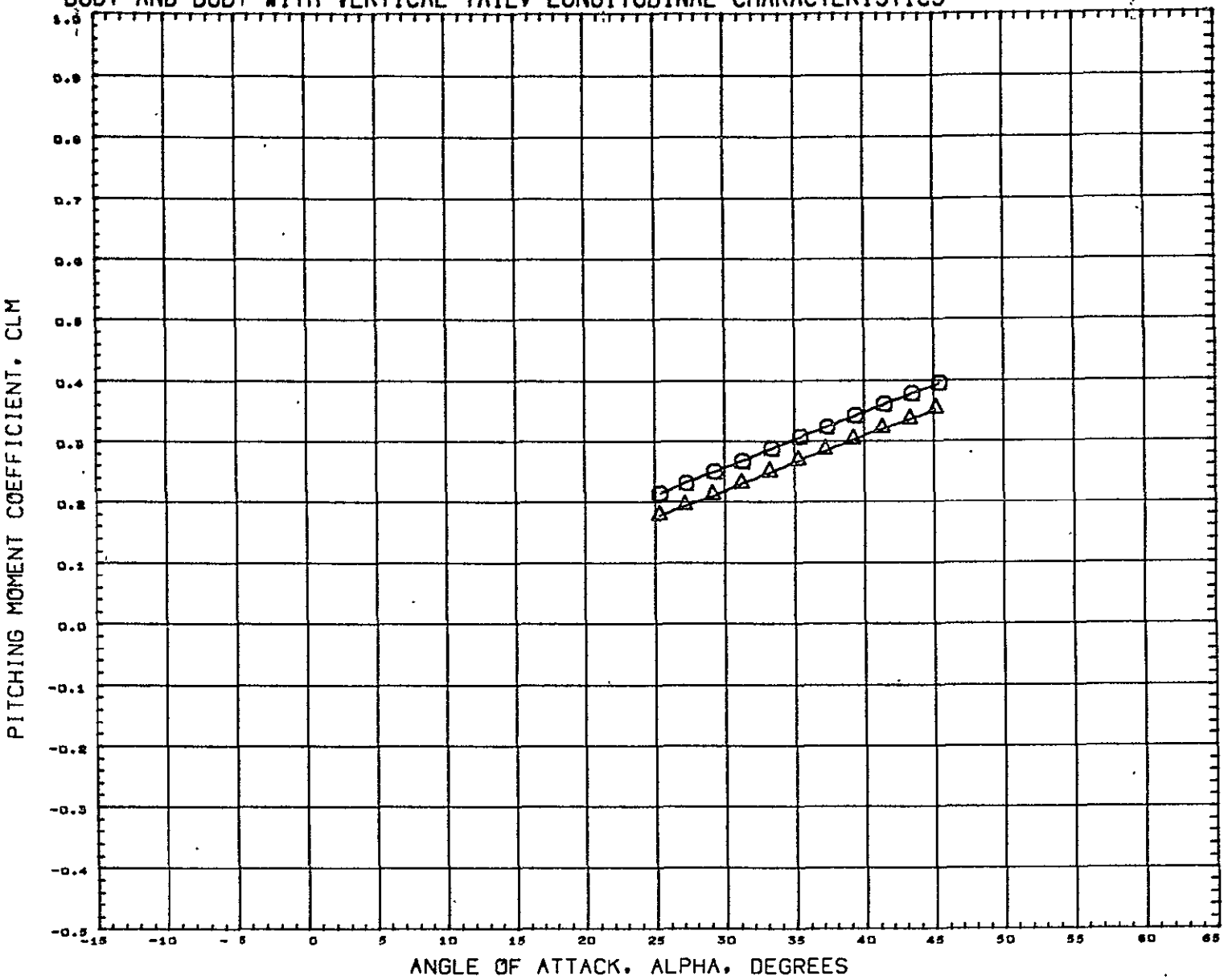
SYMBOL	MACH	PARAMETRIC VALUES	
○	2.990	BETA	0.000
△	4.959		

DATA HIST. CODE HVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY AND BODY WITH VERTICAL TAIL, LONGITUDINAL CHARACTERISTICS



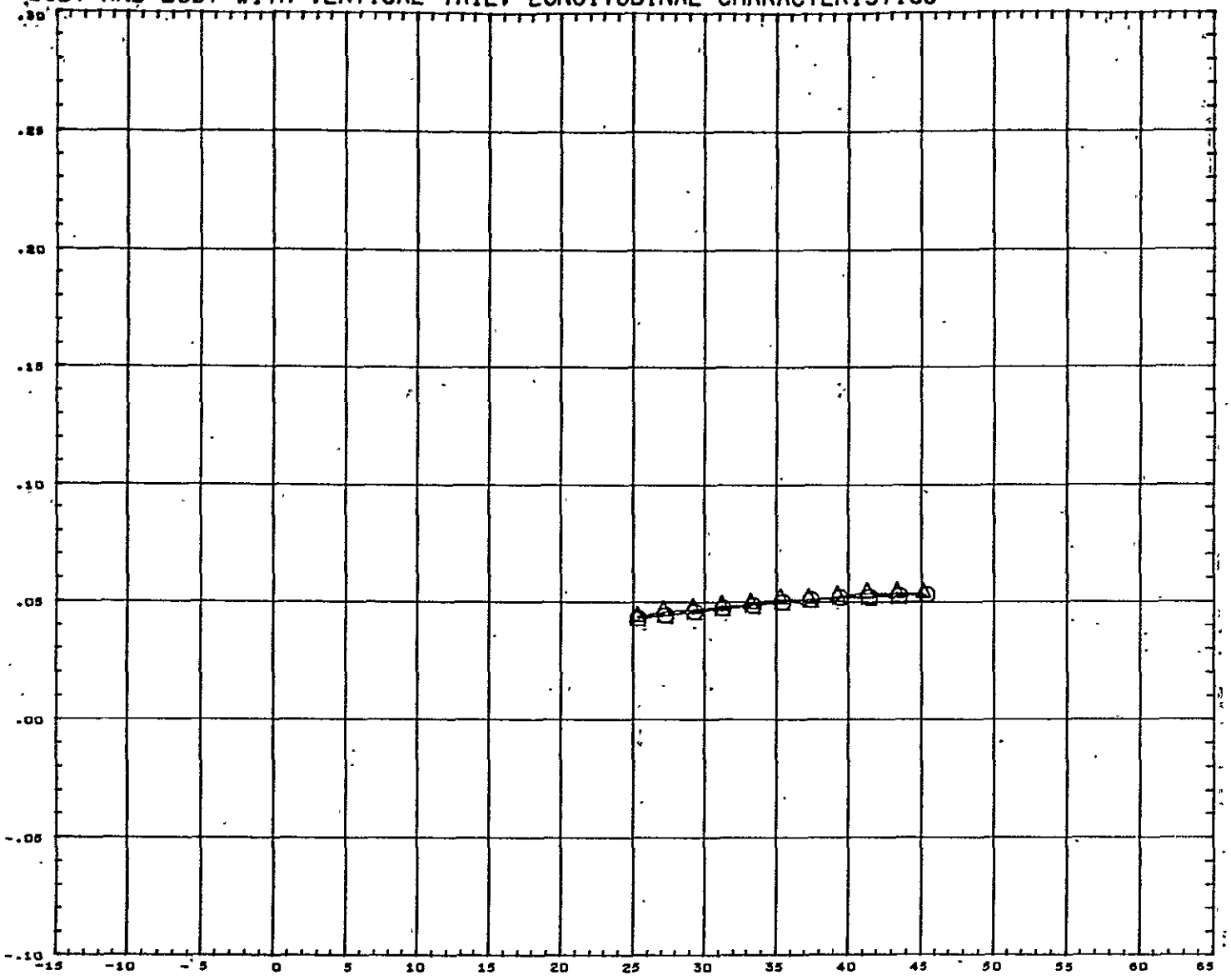
SYMBOL	MACH		PARAMETRIC VALUES
□	2.990	BETA	0.000
△	4.959		

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	5.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY AND BODY WITH VERTICAL TAIL, LONGITUDINAL CHARACTERISTICS



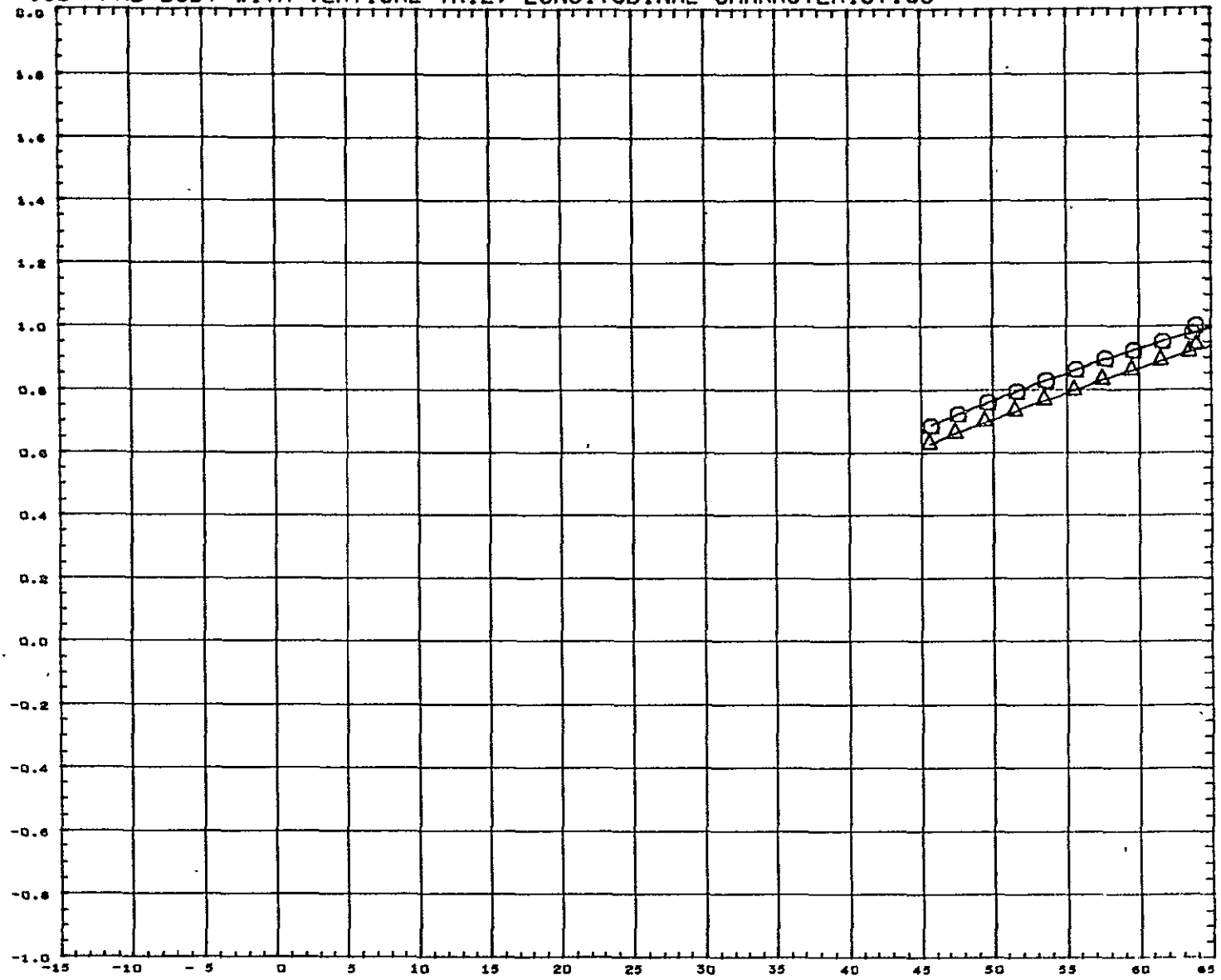
SYMBOL	MACH	PARAMETRIC VALUES	
○	2.990	BETA	0.000
△	4.959		

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY AND BODY WITH VERTICAL TAIL, LONGITUDINAL CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES	
○	2.990	BETA	0.000
△	4.959		

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

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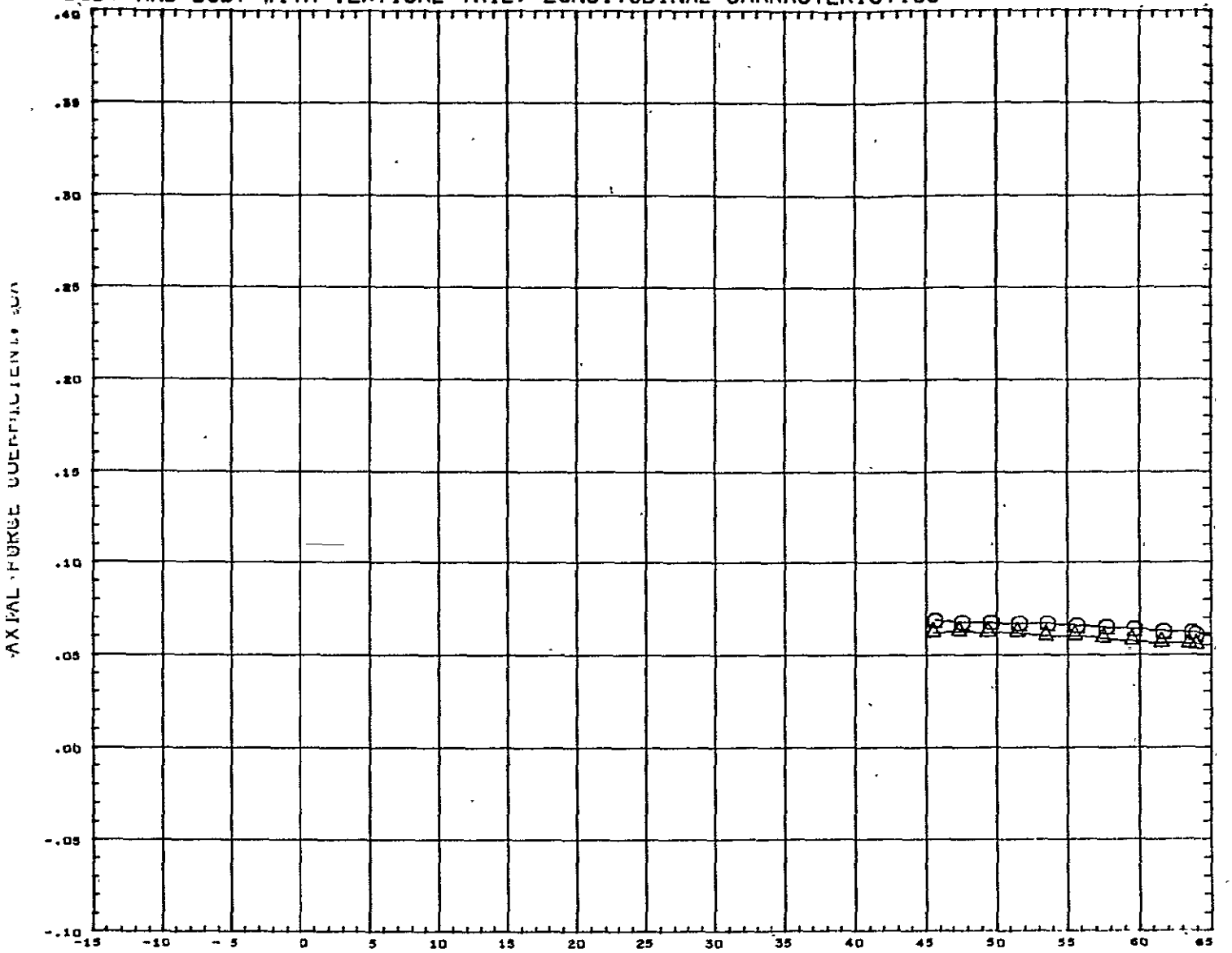
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY AND BODY WITH VERTICAL TAIL, LONGITUDINAL CHARACTERISTICS



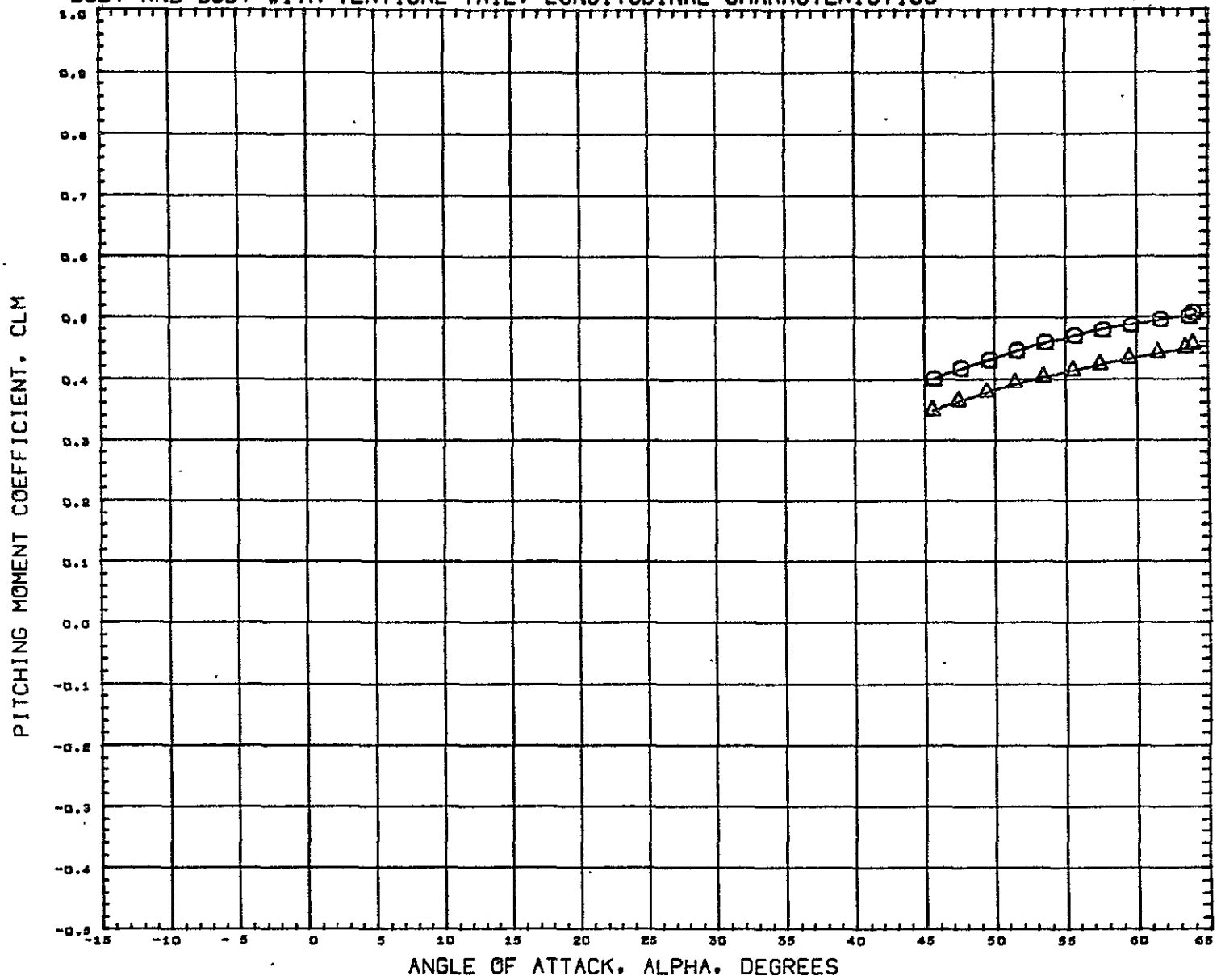
SYMBOL	MACH	PARAMETRIC VALUES	
○	2.990	BETA	0.000
△	4.959		

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY AND BODY WITH VERTICAL TAIL. LONGITUDINAL CHARACTERISTICS



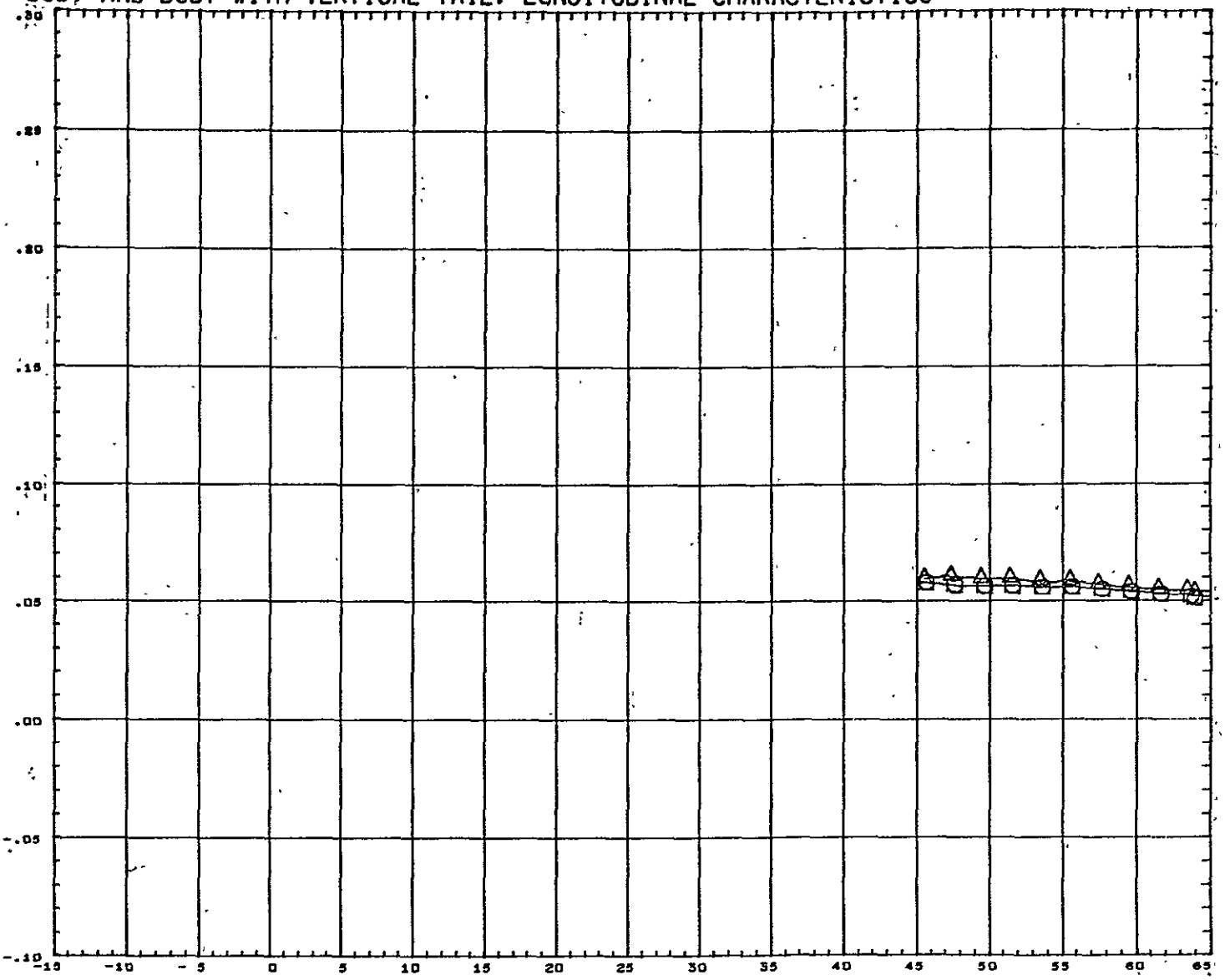
SYMBOL	MACH	PARAMETRIC VALUES	
○	2.990	BETA	0.000
△	4.959		

DATA HIST. CODE HVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY AND BODY WITH VERTICAL TAIL, LONGITUDINAL CHARACTERISTICS



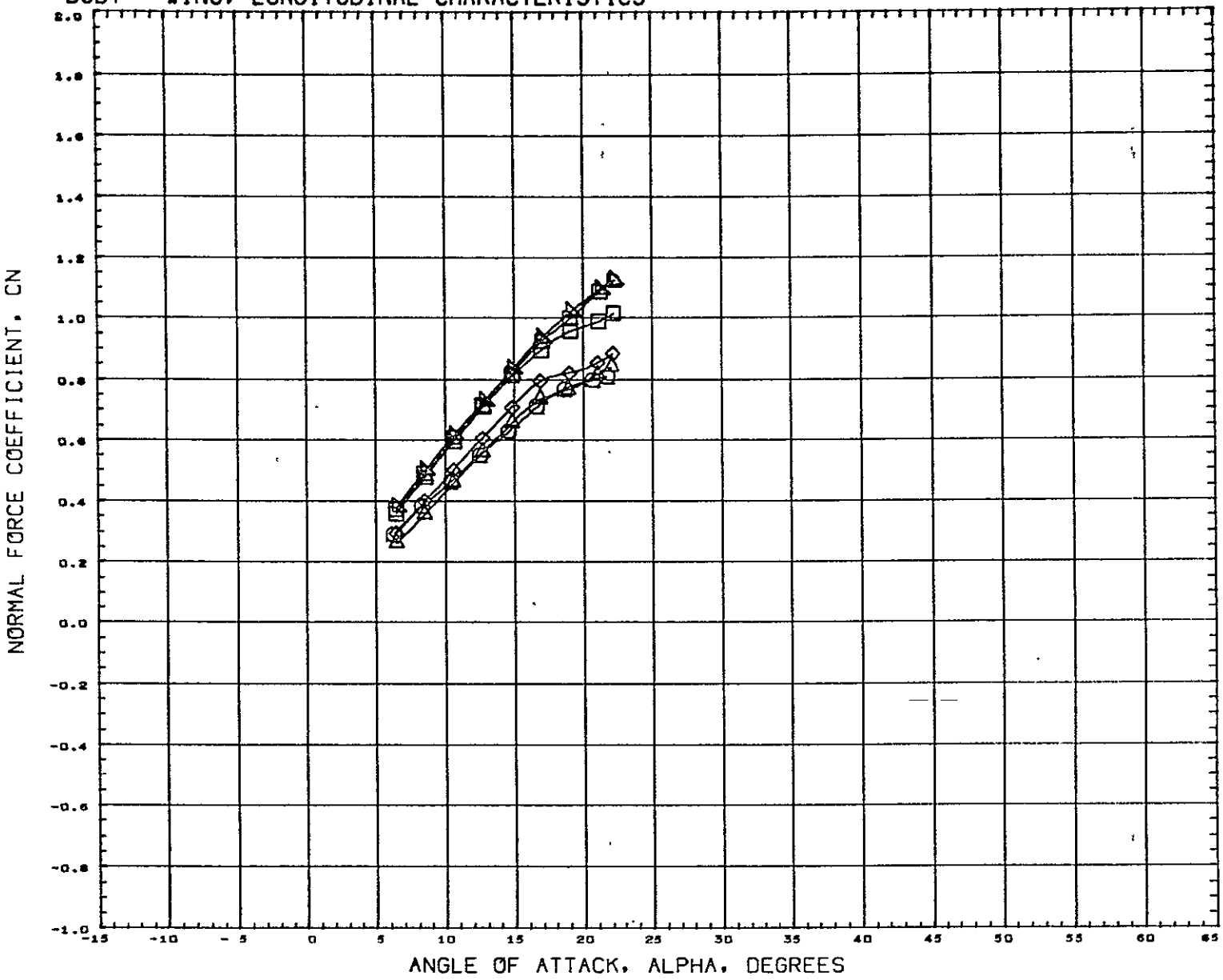
SYMBOL	MACH	PARAMETRIC VALUES	
○	2.990	BETA	0.000
△	4.959		

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

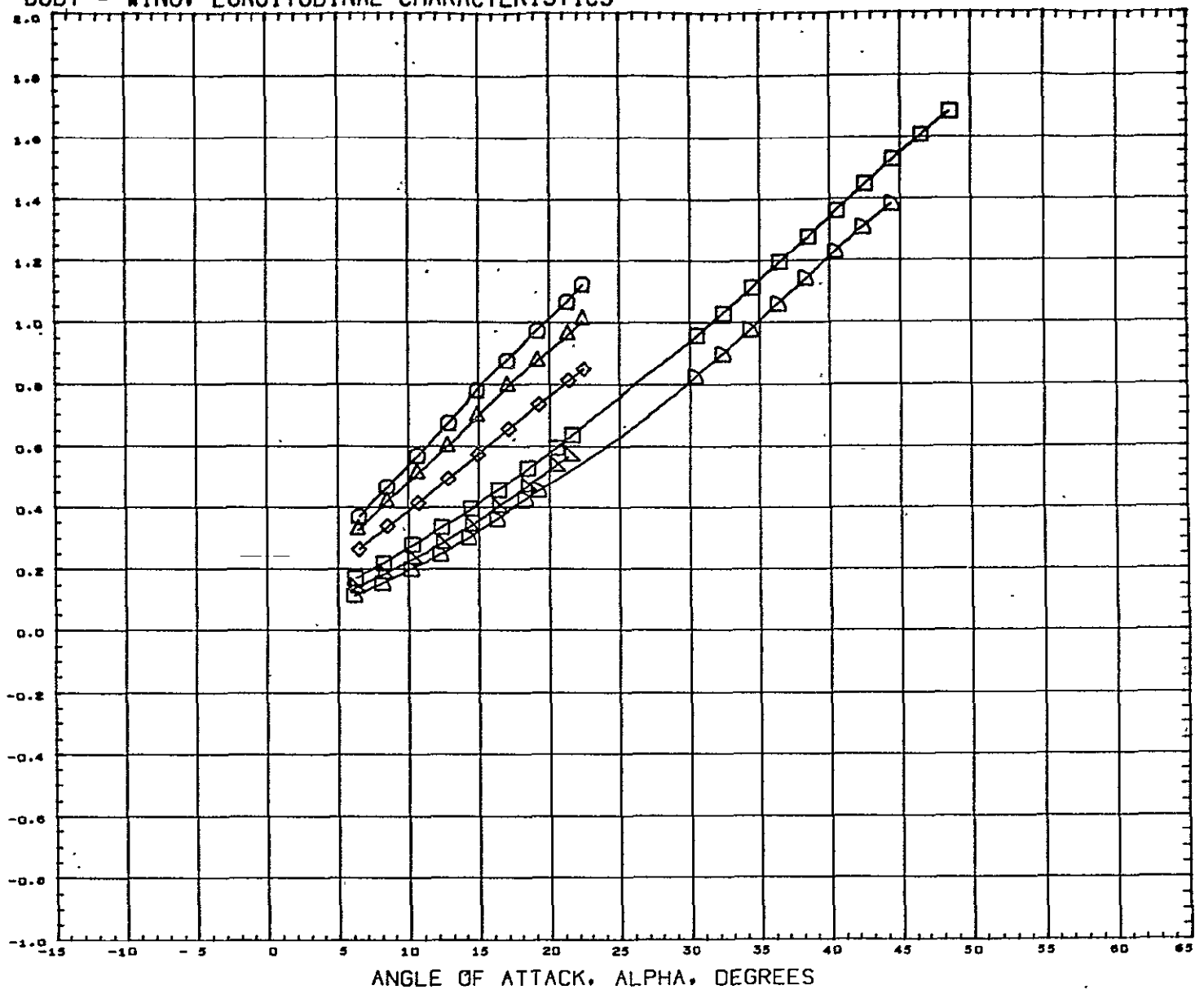
BODY - WING, LONGITUDINAL CHARACTERISTICS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.604	BETA	0.000	DEL	0.000
△	0.905	DER	0.000	ELEVON	0.000
◇	0.953	AILRON	0.000		
□	1.000				
◸	1.047				
D	1.101	DATA HIST. CODE	HVR*E*G		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

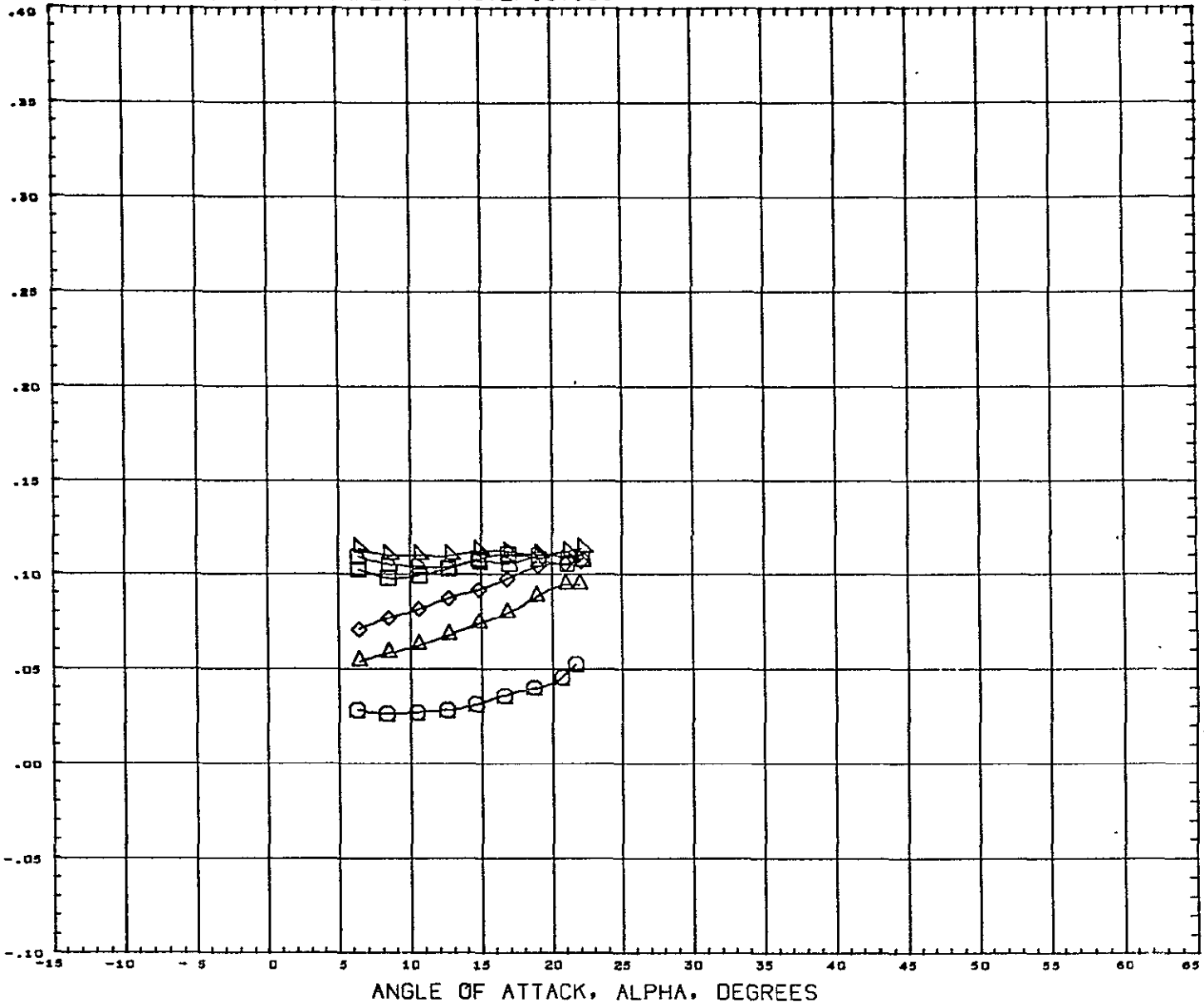
BODY - WING, LONGITUDINAL CHARACTERISTICS



SYMBOL	MACH		PARAMETRIC VALUES		
○	1.199	BETA	0.000	DEL	0.000
△	1.463	DER	0.000	ELEVON	0.000
◇	1.964	AILRON	0.000		
□	2.990				
▽	4.000				
D	4.960	DATA HIST. CODE	HVR*E*G		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY - WING, LONGITUDINAL CHARACTERISTICS

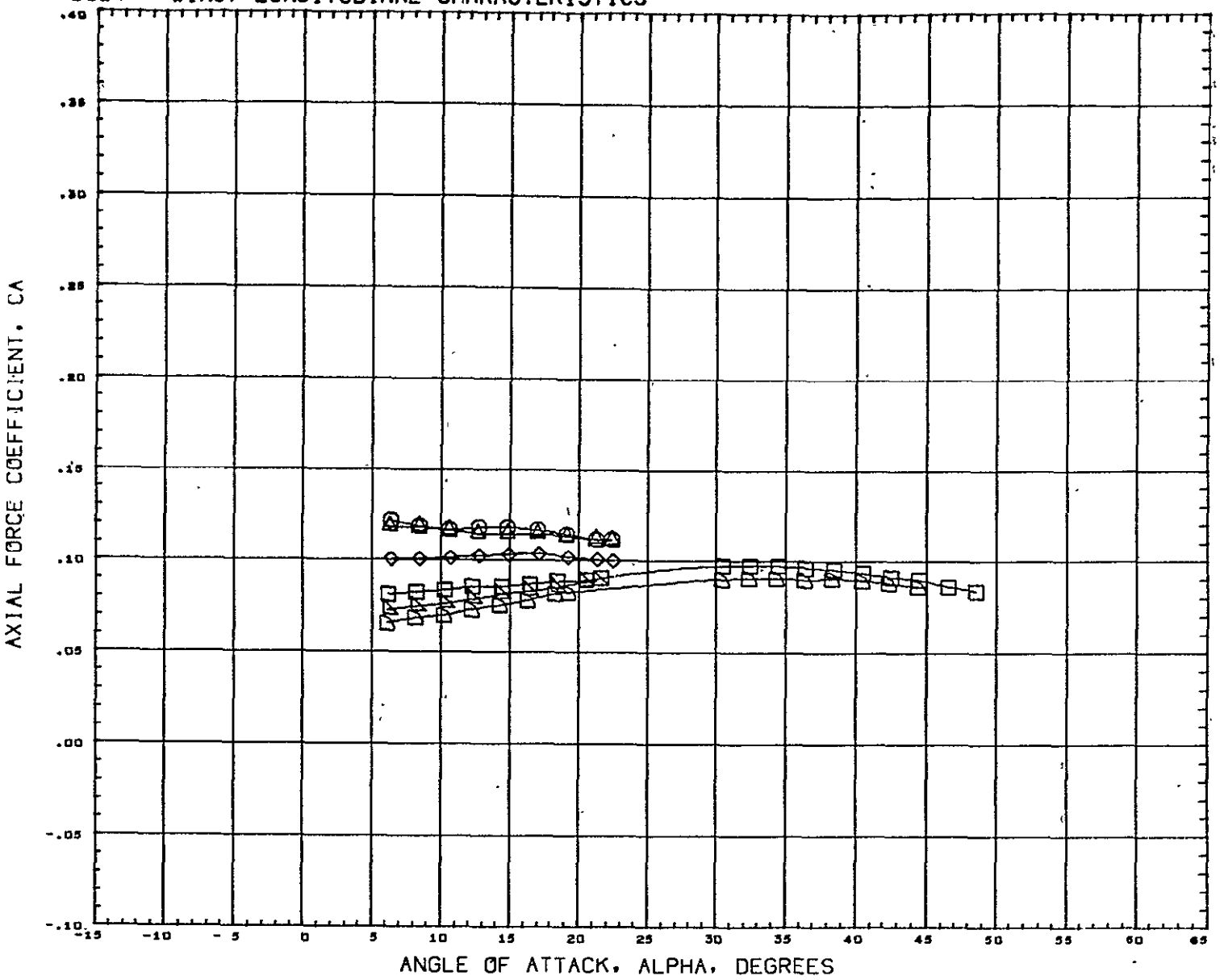


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.604	BETA	0.000	DEL	0.000
△	0.905	DER	0.000	ELEVON	0.000
◇	0.953	AILRON	0.000		
□	1.000				
◸	1.047				
▷	1.101	DATA HIST. CODE		MVR*E*G	

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

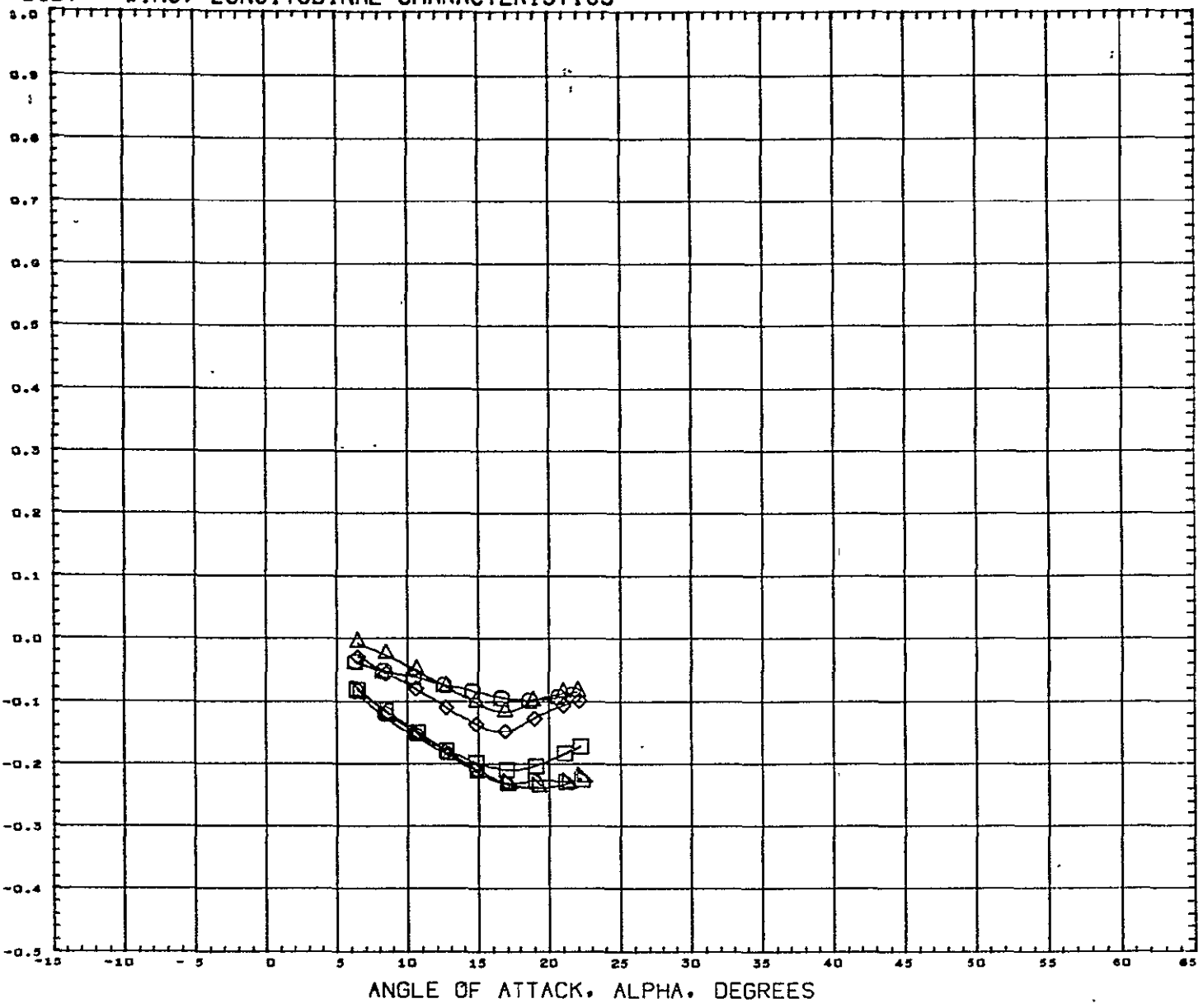
BODY - WING, LONGITUDINAL CHARACTERISTICS



SYMBOL	MACH		PARAMETRIC VALUES		
○	1.199	BETA	0.000	DEL	0.000
△	1.463	DER	0.000	ELEVON	0.000
◇	1.964	AILRON	0.000		
□	2.990				
▽	4.000				
▷	4.960	DATA HIST. CODE	MVR*E*G		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

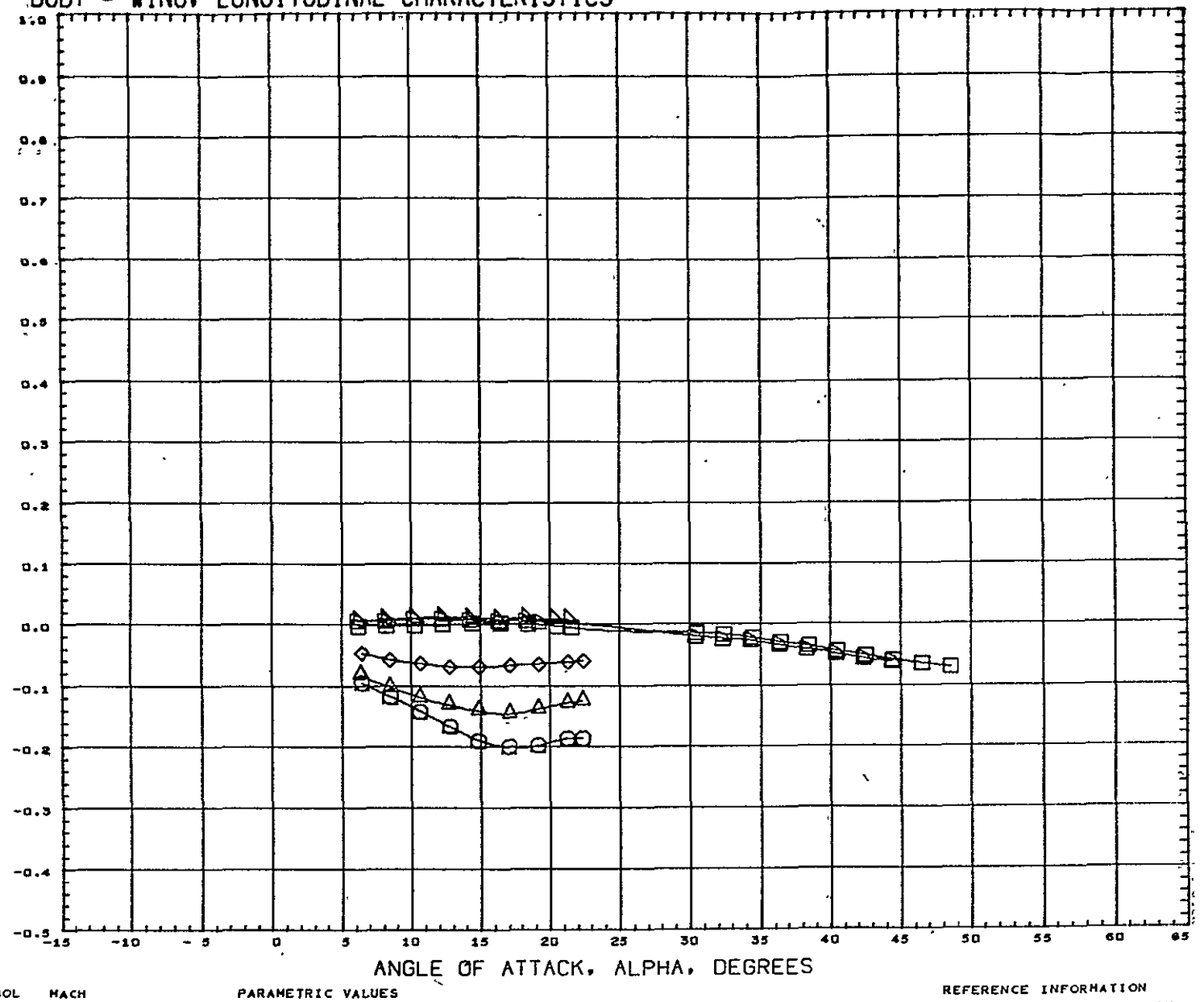
BODY - WING, LONGITUDINAL CHARACTERISTICS



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.604	BETA	0.000	DEL	0.000
△	0.905	DER	0.000	ELEVON	0.000
◇	0.953	AILRON	0.000		
□	1.000				
◸	1.047				
D	1.101	DATA HIST. CODE	MVR*E*G		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY - WING, LONGITUDINAL CHARACTERISTICS

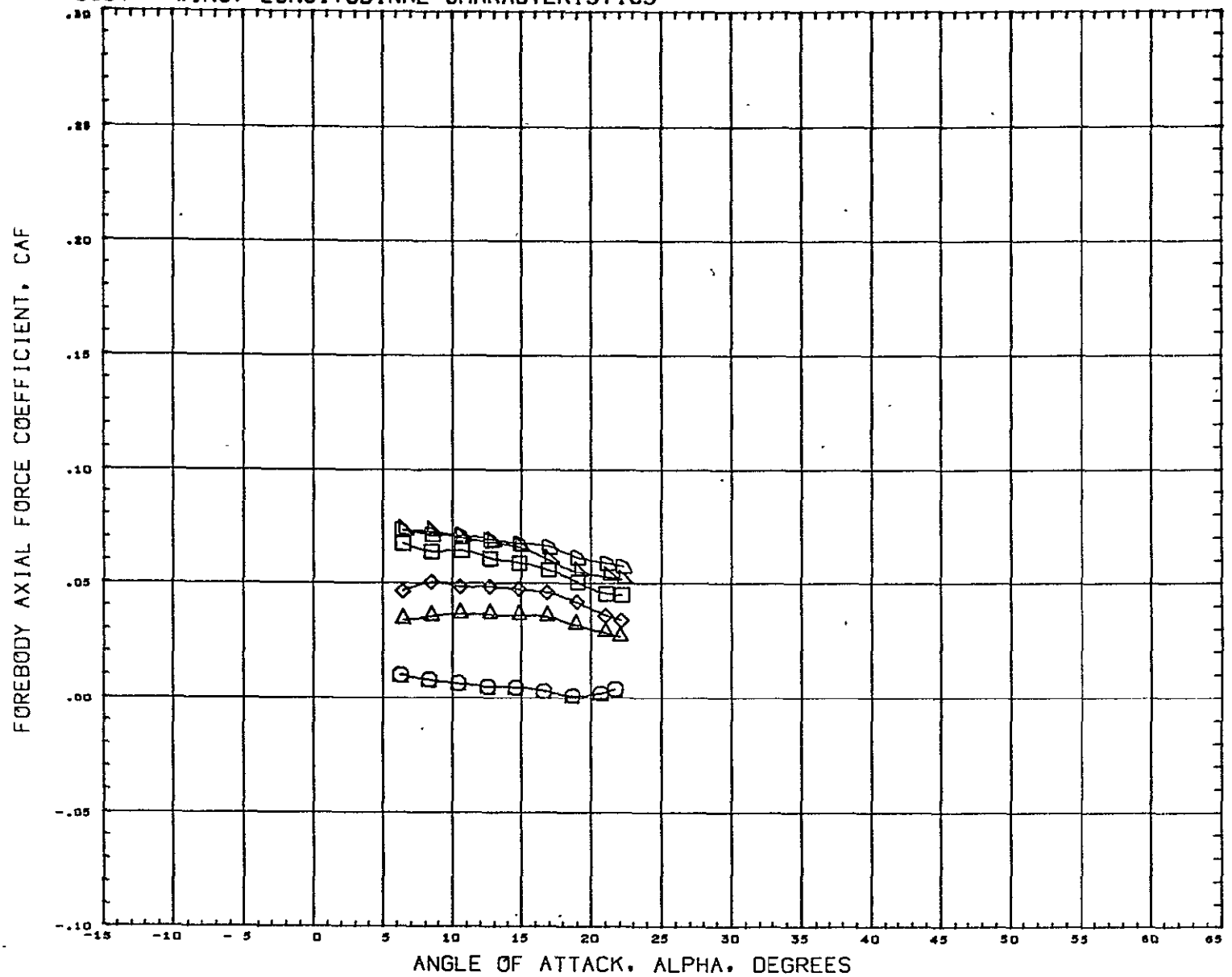


SYMBOL	MACH		PARAMETRIC VALUES		
○	1.199	BETA	0.000	DEL	0.000
△	1.463	DER	0.000	ELEVON	0.000
◇	1.964	AILRON	0.000		
▽	2.990				
□	4.000				
D	4.960	DATA HIST. CODE	MVR*E*G		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY - WING, LONGITUDINAL CHARACTERISTICS

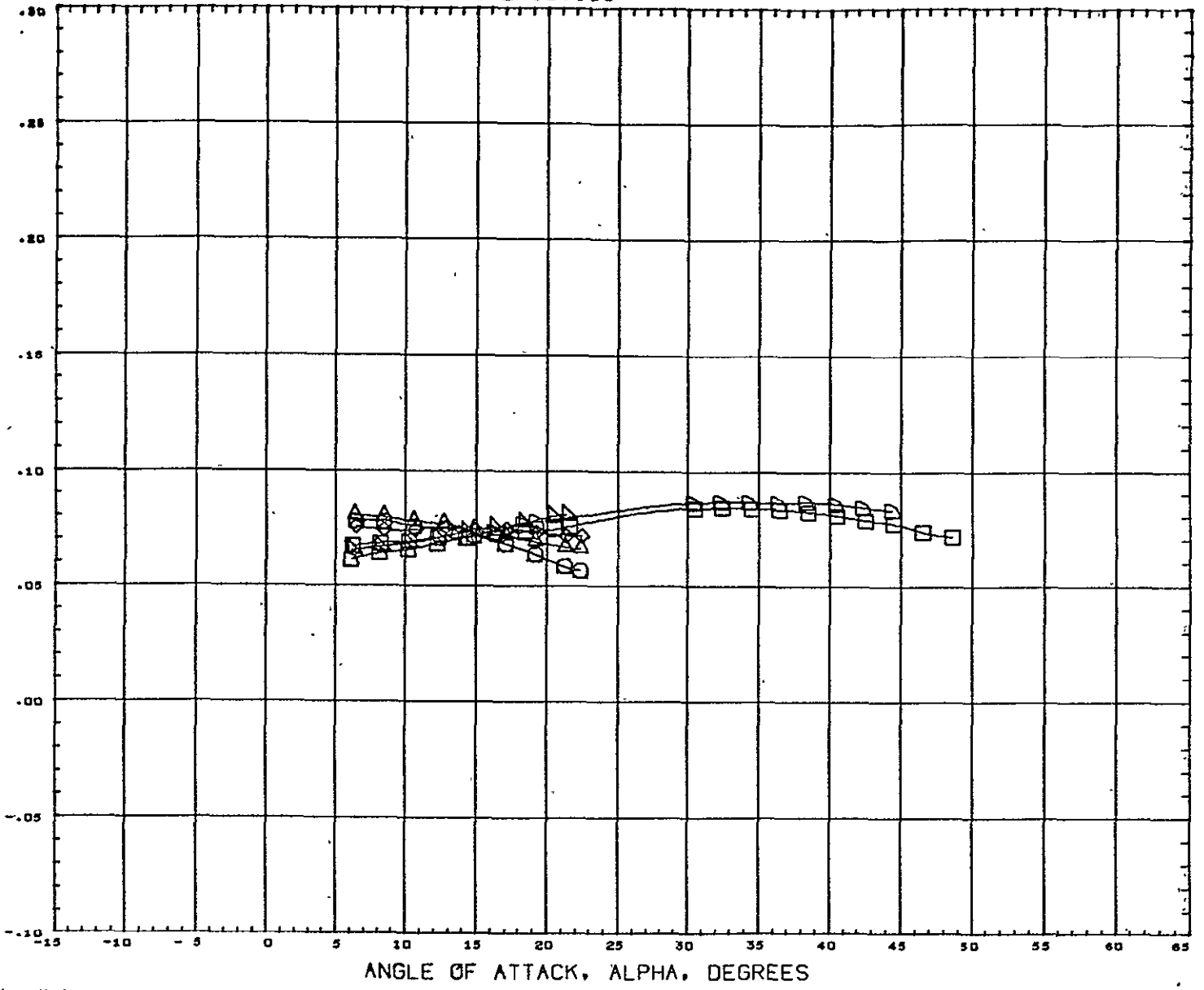


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.604	BETA	0.000	DEL	0.000
△	0.905	DER	0.000	ELEVON	0.000
◇	0.953	AILRON	0.000		
□	1.000				
▱	1.047				
▷	1.101	DATA HIST. CODE	MVR*E*G		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

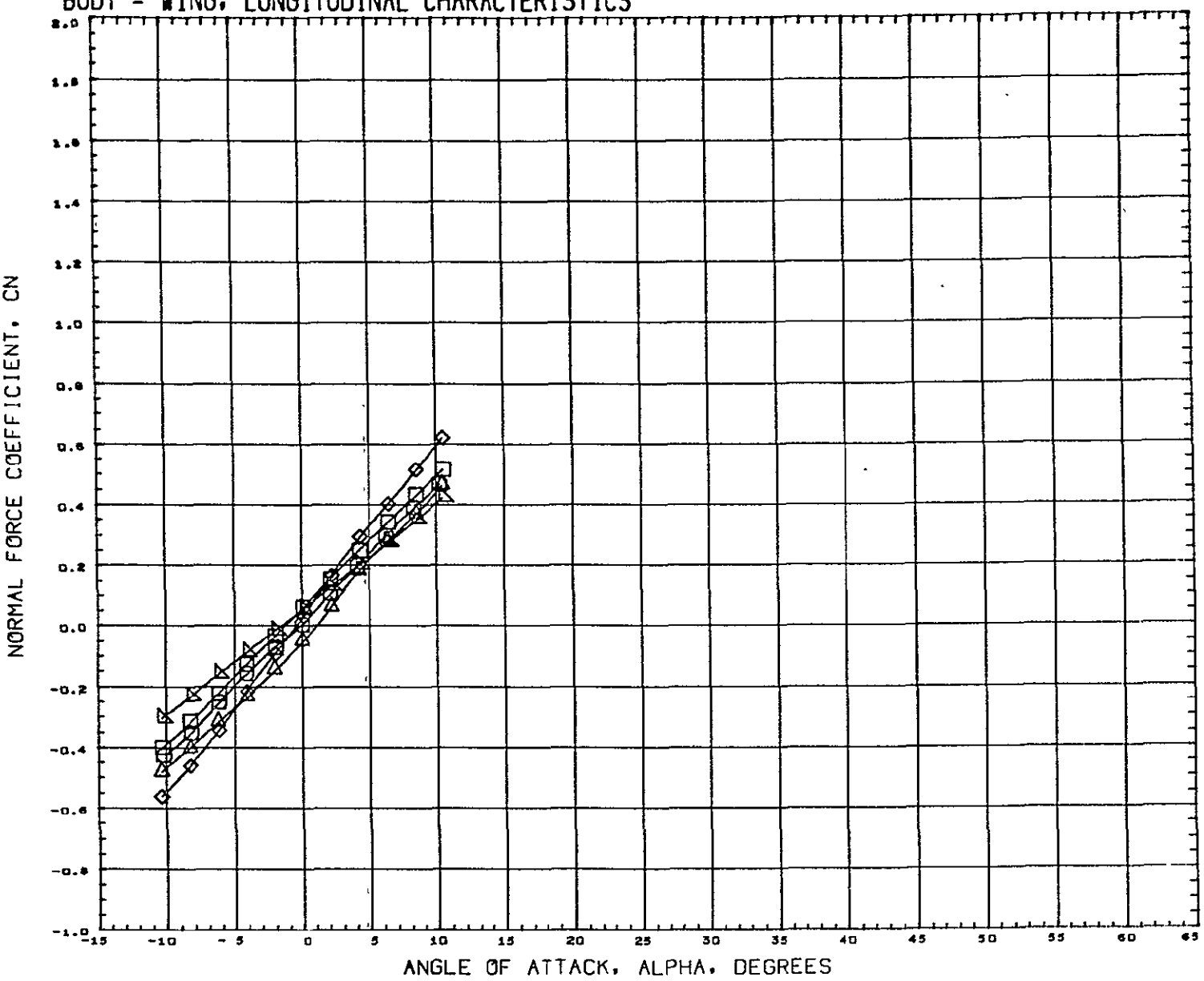
BODY - WING, LONGITUDINAL CHARACTERISTICS



SYMBOL	MACH		PARAMETRIC VALUES		
○	1.199	BETA	0.000	DEL	0.000
△	1.463	OER	0.000	ELEVON	0.000
◇	1.964	AILRON	0.000		
□	2.990				
▽	4.000				
D	4.960	DATA HIST. CODE	MVR*E*G		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY - WING, LONGITUDINAL CHARACTERISTICS



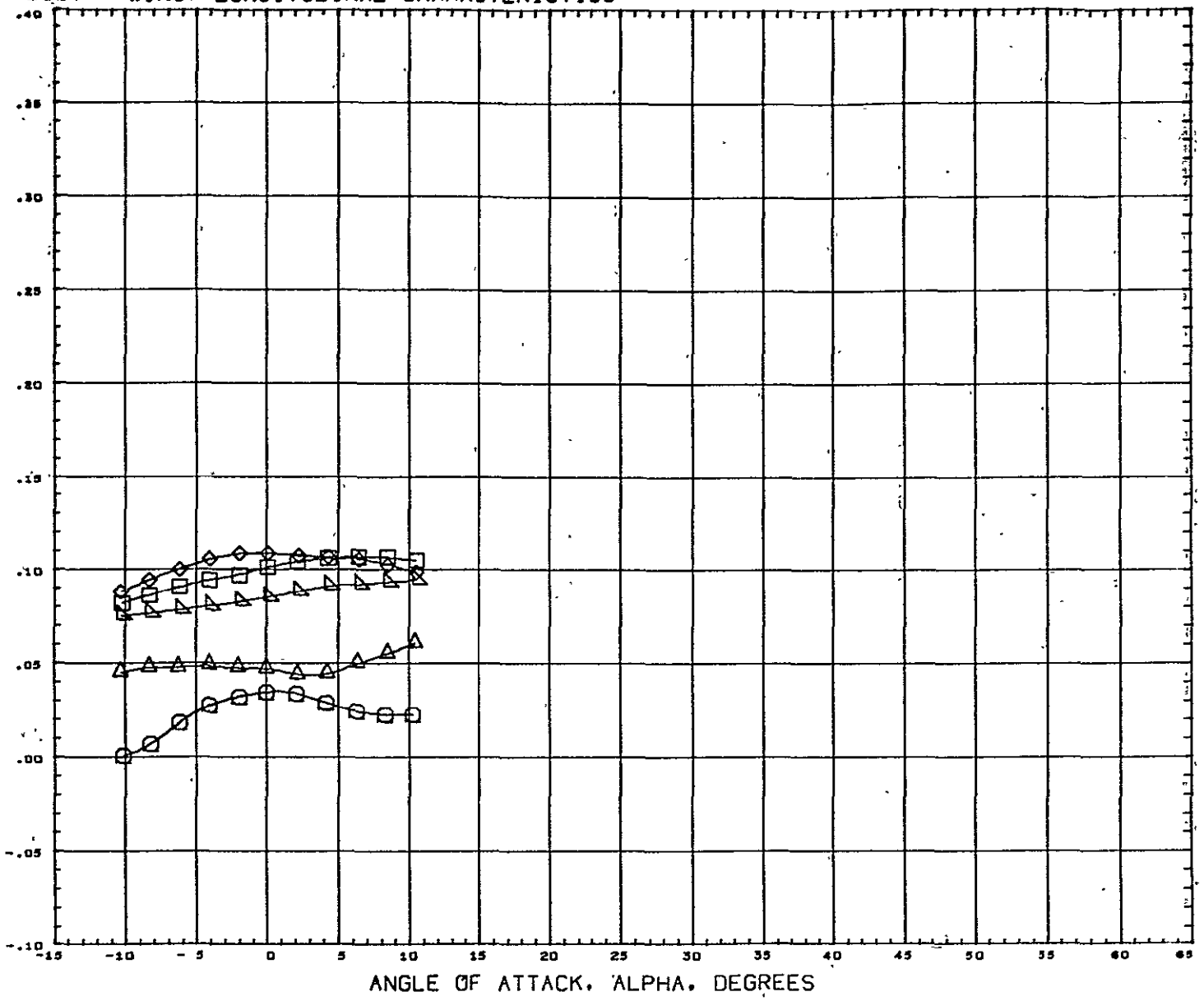
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.606	BETA	0.000	DEL	0.000
△	0.903	DER	0.000	ELEVON	0.000
◇	1.102	AILRON	0.000		
□	1.462				
◸	1.967				

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY - WING, LONGITUDINAL CHARACTERISTICS



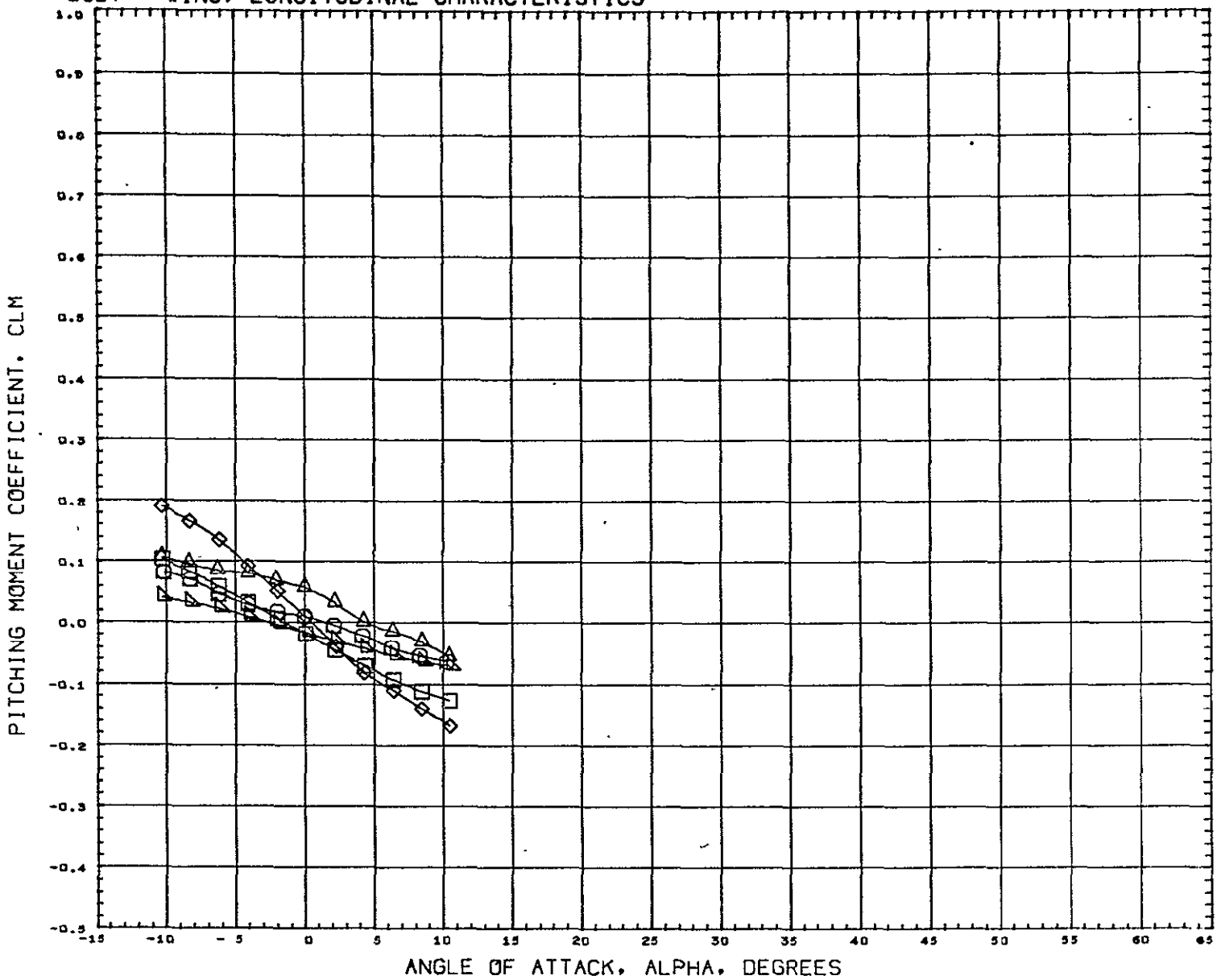
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.606	BETA	0.000	DEL	0.000
△	0.903	DER	0.000	ELEVON	0.000
◇	1.102	AILRON	0.000		
□	1.462				
▽	1.967				

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY - WING, LONGITUDINAL CHARACTERISTICS



SYMBOL	MACH
○	0.606
△	0.903
◇	1.102
□	1.462
▽	1.967

PARAMETRIC VALUES

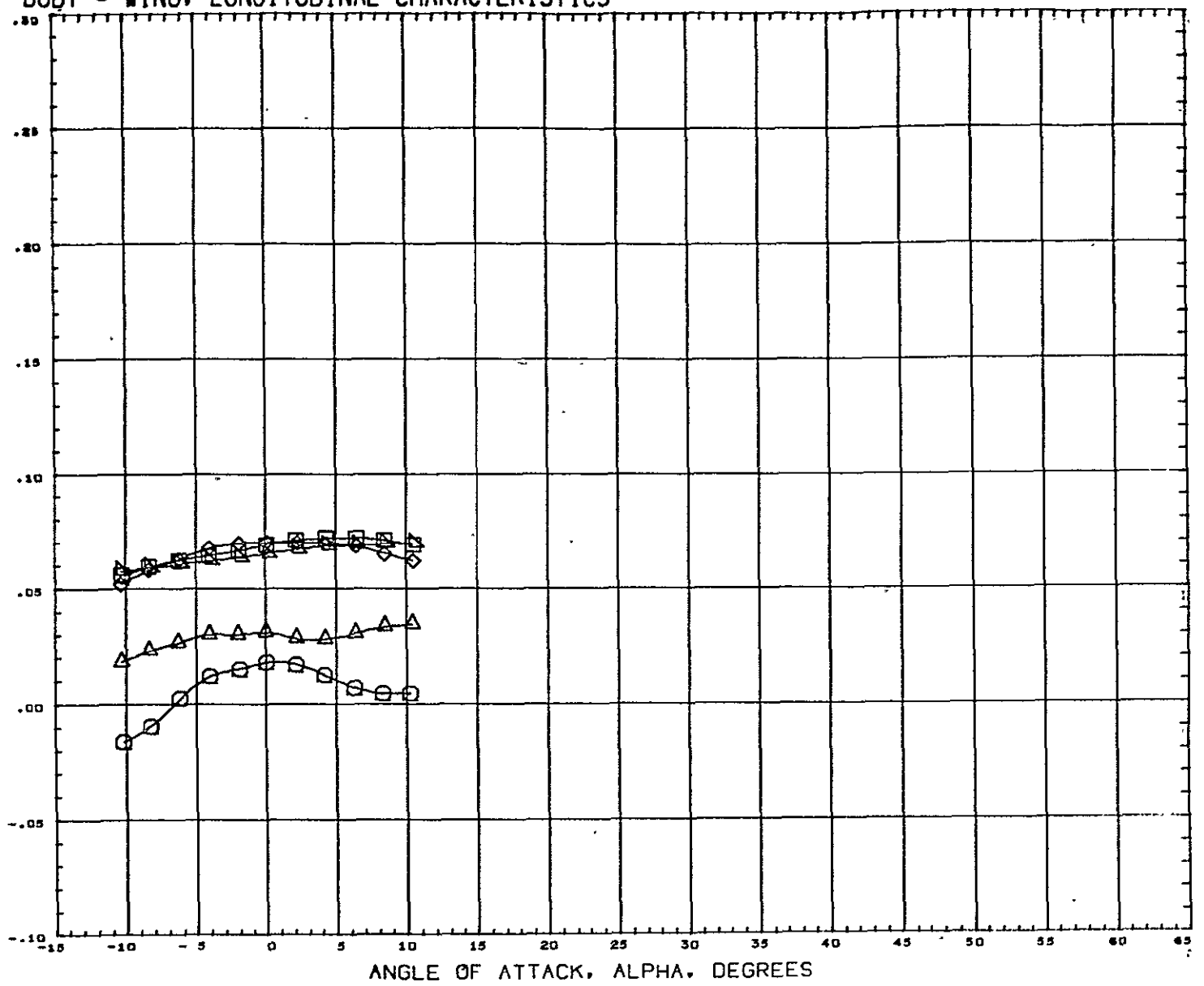
BETA	0.000	DEL	0.000
DER	0.000	ELEVON	0.000
AILRON	0.000		

DATA HIST. CODE MVR#E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY - WING, LONGITUDINAL CHARACTERISTICS



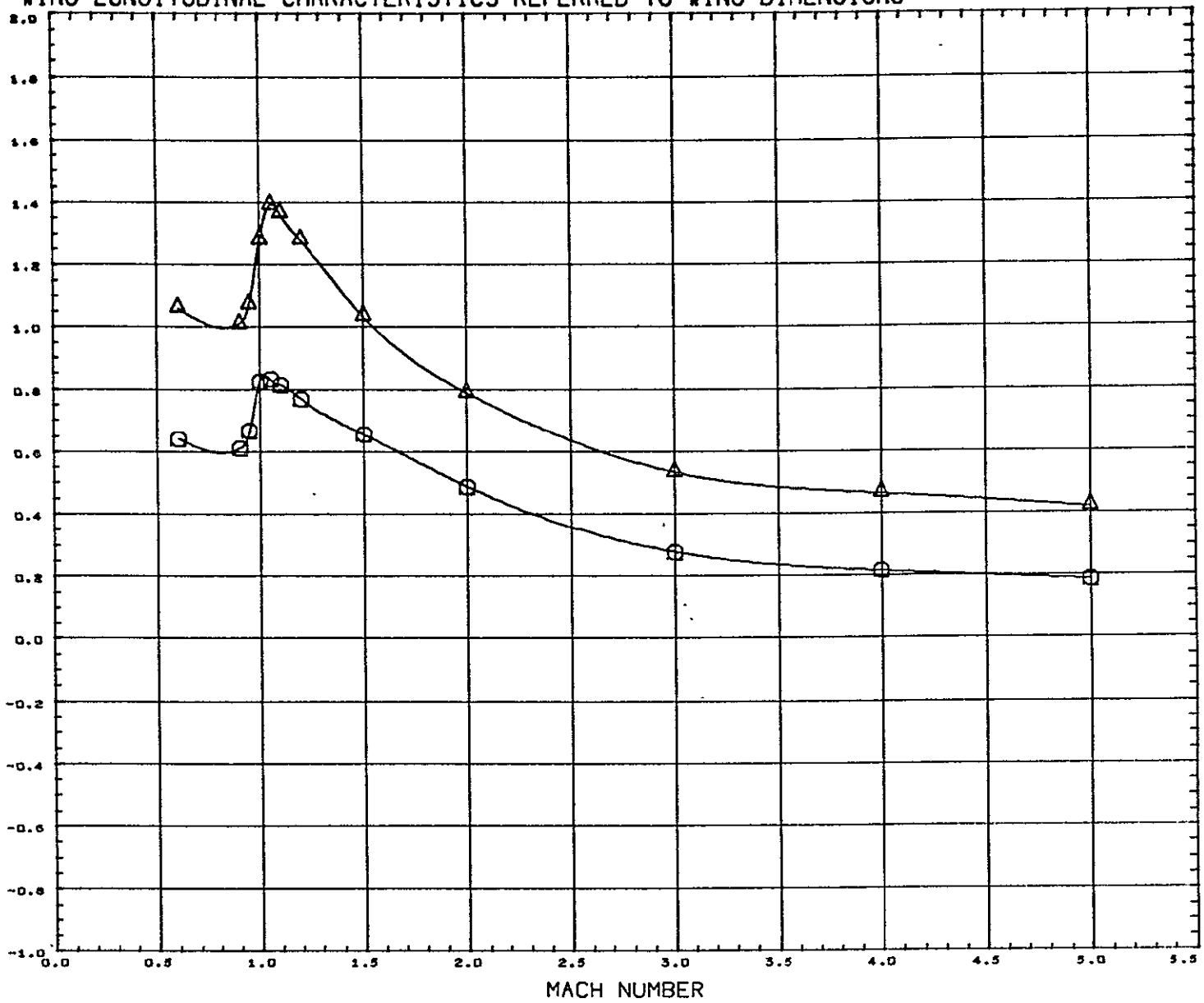
SYMBOL	MACH		PARAMETRIC VALUES		
○	0.606	BETA	0.000	DEL	0.000
△	0.903	DER	0.000	ELEVON	0.000
◇	1.102	AILRON	0.000	.	
□	1.462				
▽	1.967				

DATA HIST. CODE HVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

WING LONGITUDINAL CHARACTERISTICS REFERRED TO WING DIMENSIONS



SYMBOL	ALPHA	PARAMETRIC VALUES			
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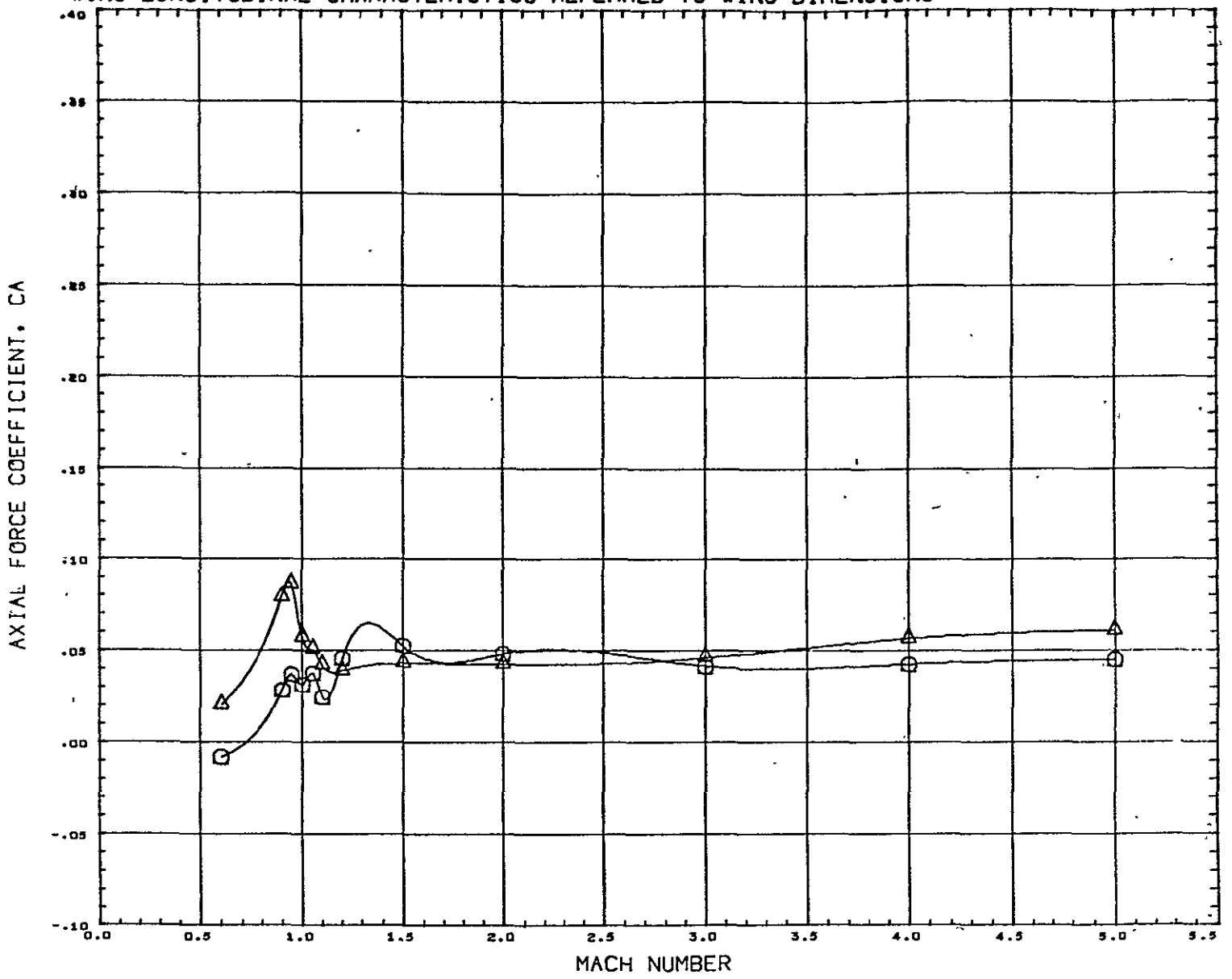
△	20.000				

DATA HIST. CODE HVR*EI*CS

REFERENCE INFORMATION

SREF	10.0300	SQ.IN.
LREF	2.5040	IN.
BREF	4.7430	IN.
XMRP	7.8570	IN.
YMRP	0.0000	IN.
ZMRP	0.6240	IN.
SCALE	0.0035	

WING LONGITUDINAL CHARACTERISTICS REFERRED TO WING DIMENSIONS



SYMBOL	ALPHA		PARAMETRIC VALUES		
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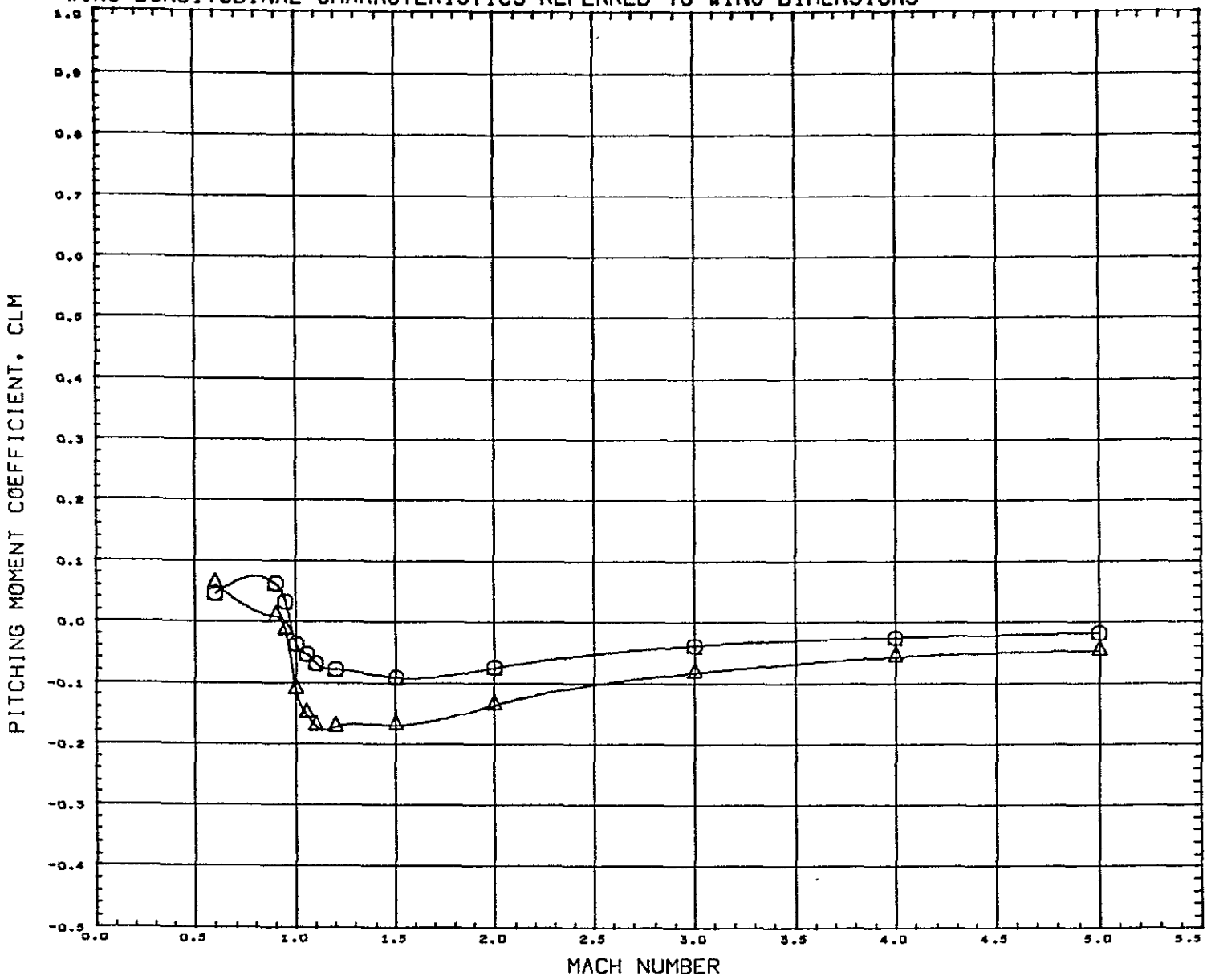
△	20.000				

DATA HIST. CODE HVR*EI*CS

REFERENCE INFORMATION

SREF	10.0300	SQ.IN.
LREF	2.5040	IN.
BREF	4.7430	IN.
XMRP	7.6570	IN.
YMRP	0.0000	IN.
ZMRP	0.6240	IN.
SCALE	0.0035	

WING LONGITUDINAL CHARACTERISTICS REFERRED TO WING DIMENSIONS



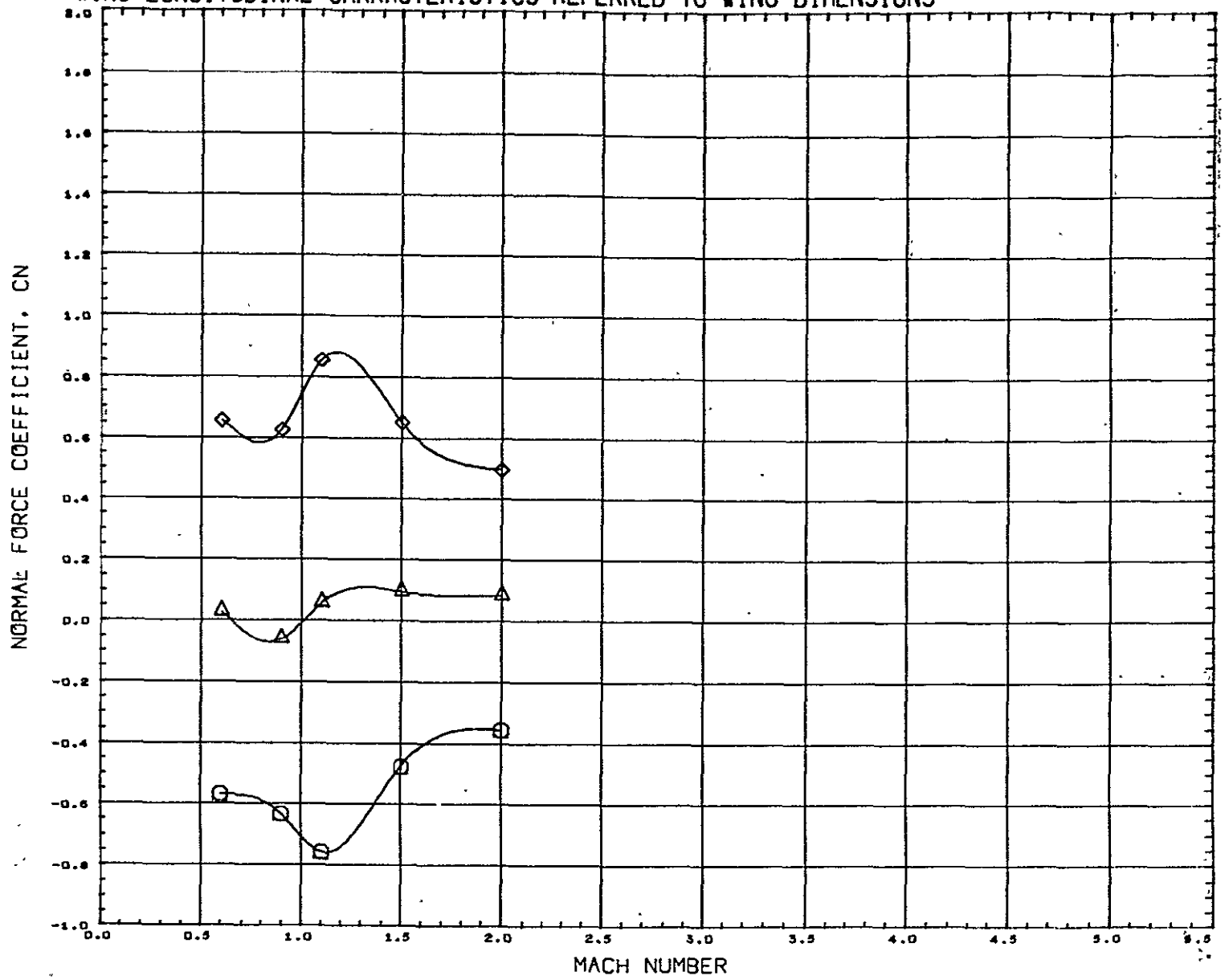
SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	RUDDER	0.000
△	20.000				

DATA HIST. CODE MVR*EI*CS

REFERENCE INFORMATION

SREF	10.0300	SQ.IN.
LREF	2.5040	IN.
BREF	4.7430	IN.
XMRP	7.6570	IN.
YMRP	0.0000	IN.
ZMRP	0.6240	IN.
SCALE	0.0035	

WING LONGITUDINAL CHARACTERISTICS REFERRED TO WING DIMENSIONS



SYMBOL	ALPHA
○	- 10.000
△	0.000
◇	10.000

PARAMETRIC VALUES

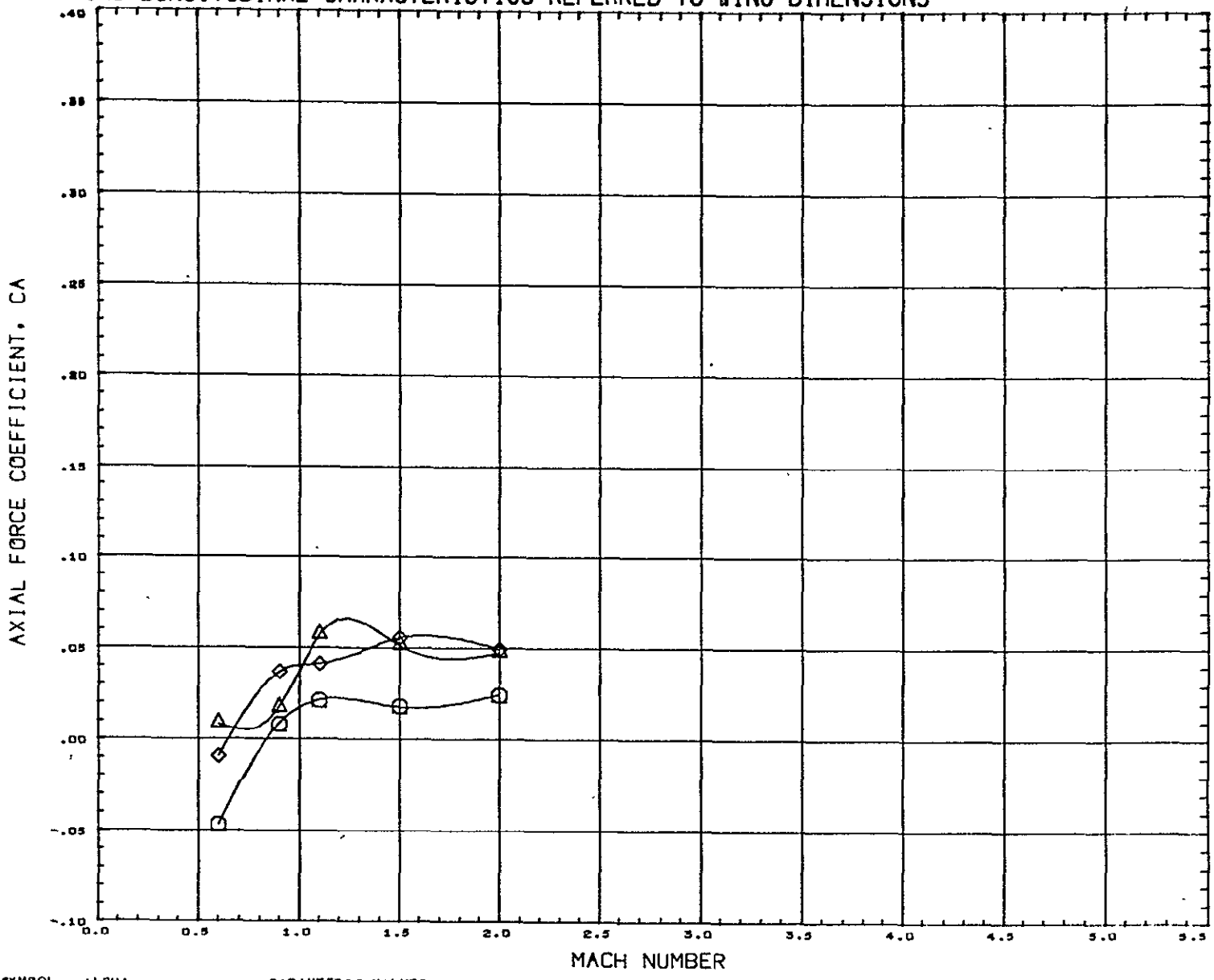
BETA 0.000

REFERENCE INFORMATION

SREF	10.0300	SQ.IN.
LREF	2.5040	IN.
BREF	4.7430	IN.
XMRP	7.8570	IN.
YMRP	0.0000	IN.
ZMRP	0.6240	IN.
SCALE	0.0035	

DATA HIST. CODE MVR*EI*CS

WING LONGITUDINAL CHARACTERISTICS REFERRED TO WING DIMENSIONS



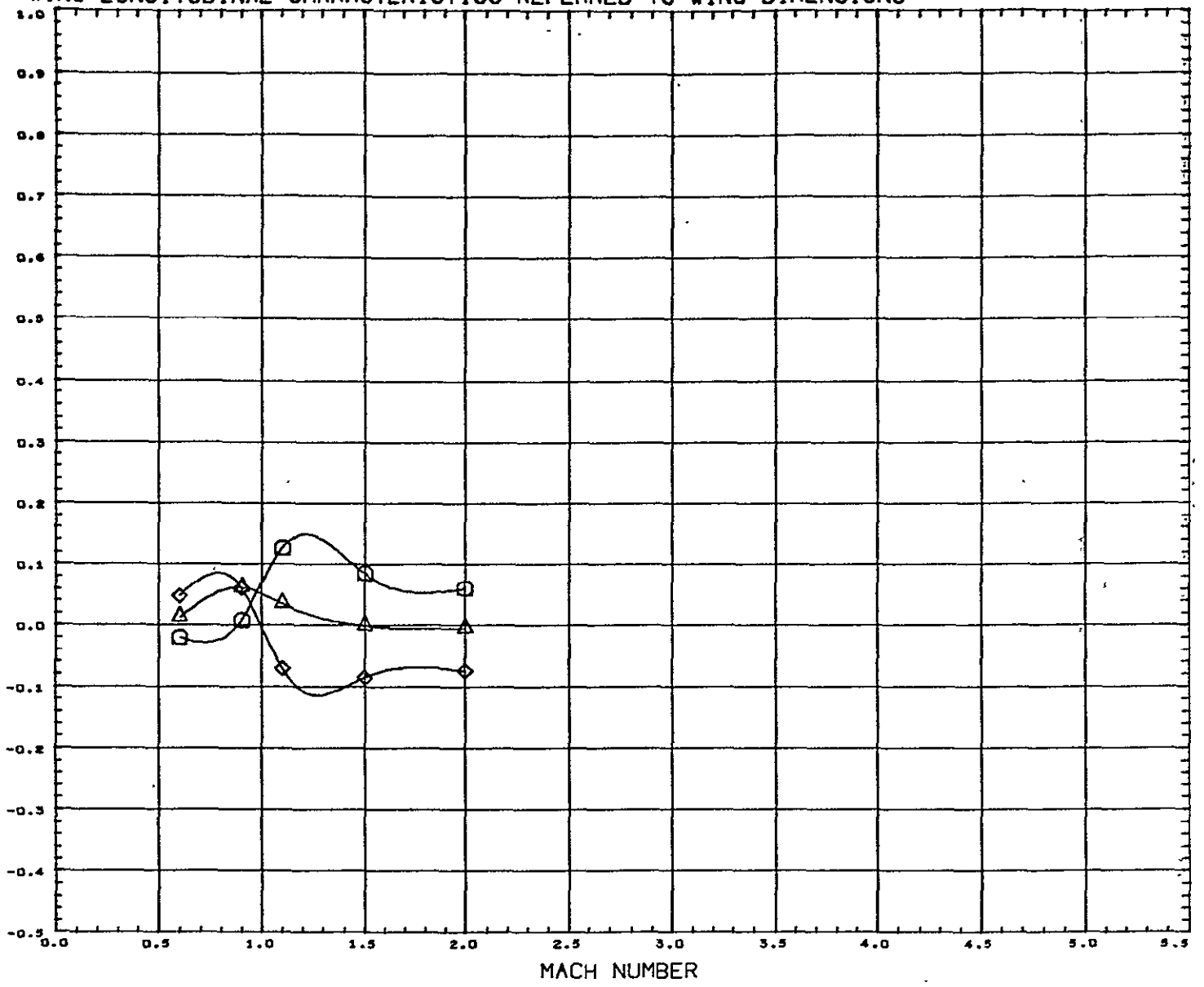
SYMBOL	ALPHA	PARAMETRIC VALUES	
○	- 10.000	BETA	0.000
△	0.000		
◇	10.000		

DATA HIST. CODE MVR*EI*CS

REFERENCE INFORMATION

SREF	10.0300	SQ.IN.
LREF	2.5040	IN.
BREF	4.7430	IN.
XMRP	7.8570	IN.
YMRP	0.0000	IN.
ZMRP	0.6240	IN.
SCALE	0.0035	

WING LONGITUDINAL CHARACTERISTICS REFERRED TO WING DIMENSIONS



SYMBOL	ALPHA	PARAMETRIC VALUES
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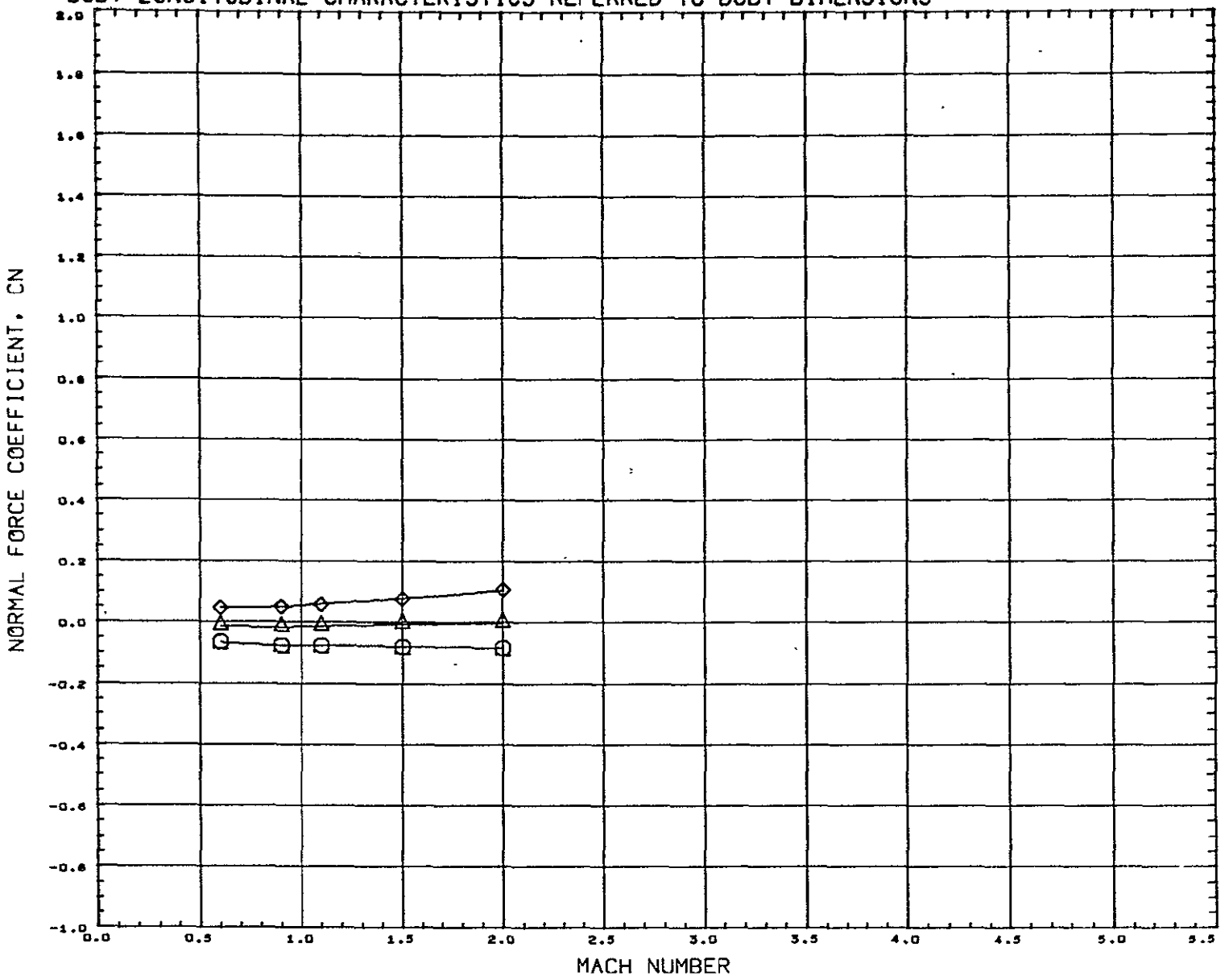
△	0.000	
◇	10.000	

DATA HIST. CODE HVR*EI*CS

REFERENCE INFORMATION

SREF	10.0300	SQ.IN.
LREF	2.5040	IN.
BREF	4.7430	IN.
XMRP	7.8570	IN.
YMRP	0.0000	IN.
ZMRP	0.6240	IN.
SCALE	0.0035	

BODY LONGITUDINAL CHARACTERISTICS REFERRED TO BODY DIMENSIONS



SYMBOL	ALPHA	PARAMETRIC VALUES	
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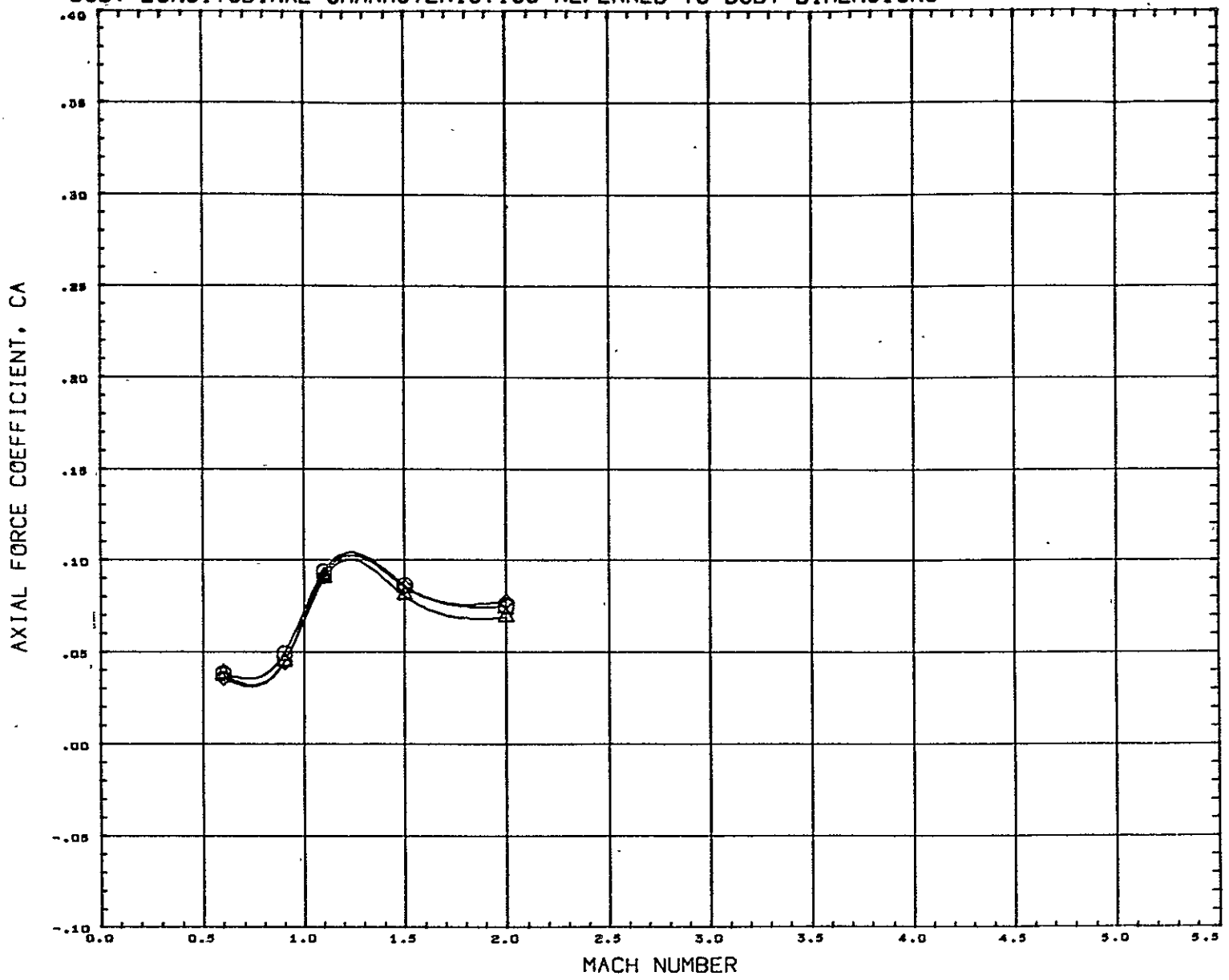
△	0.000		
◇	10.000		

DATA HIST. CODE HVR*EIS

REFERENCE INFORMATION

SREF	12.5010	SQ.IN.
LREF	9.7340	IN.
BREF	1.3560	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY LONGITUDINAL CHARACTERISTICS REFERRED TO BODY DIMENSIONS



SYMBOL	ALPHA
○	- 10.000
△	0.000
◇	10.000

PARAMETRIC VALUES

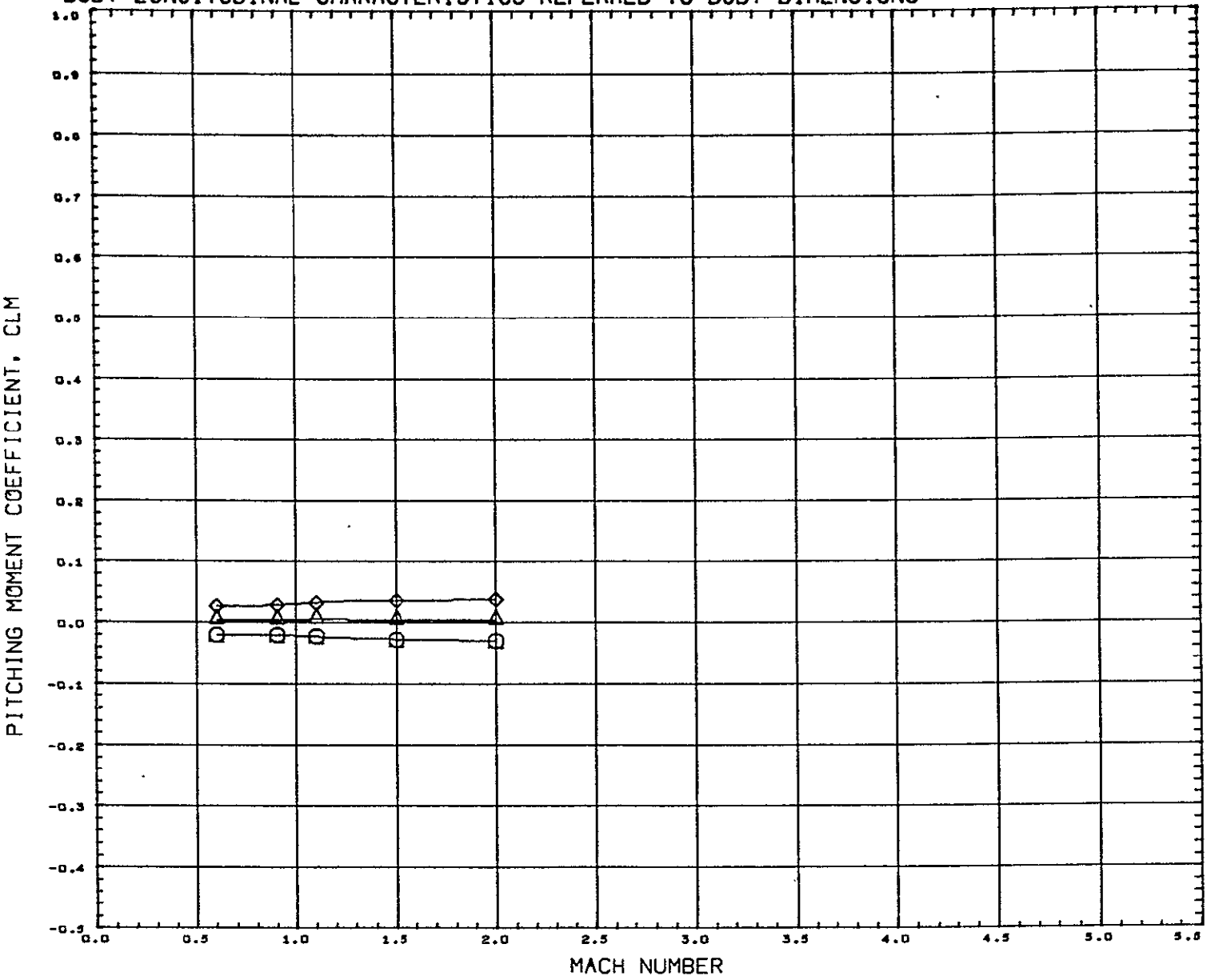
BETA 0.000

DATA HIST. CODE HVR*EIS

REFERENCE INFORMATION

SREF	12.5010	SQ.IN.
LREF	9.7340	IN.
BREF	1.3560	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BØDY LØNGITUDINAL CHARACTERISTICS REFERRED TØ BØDY DIMENSIONS



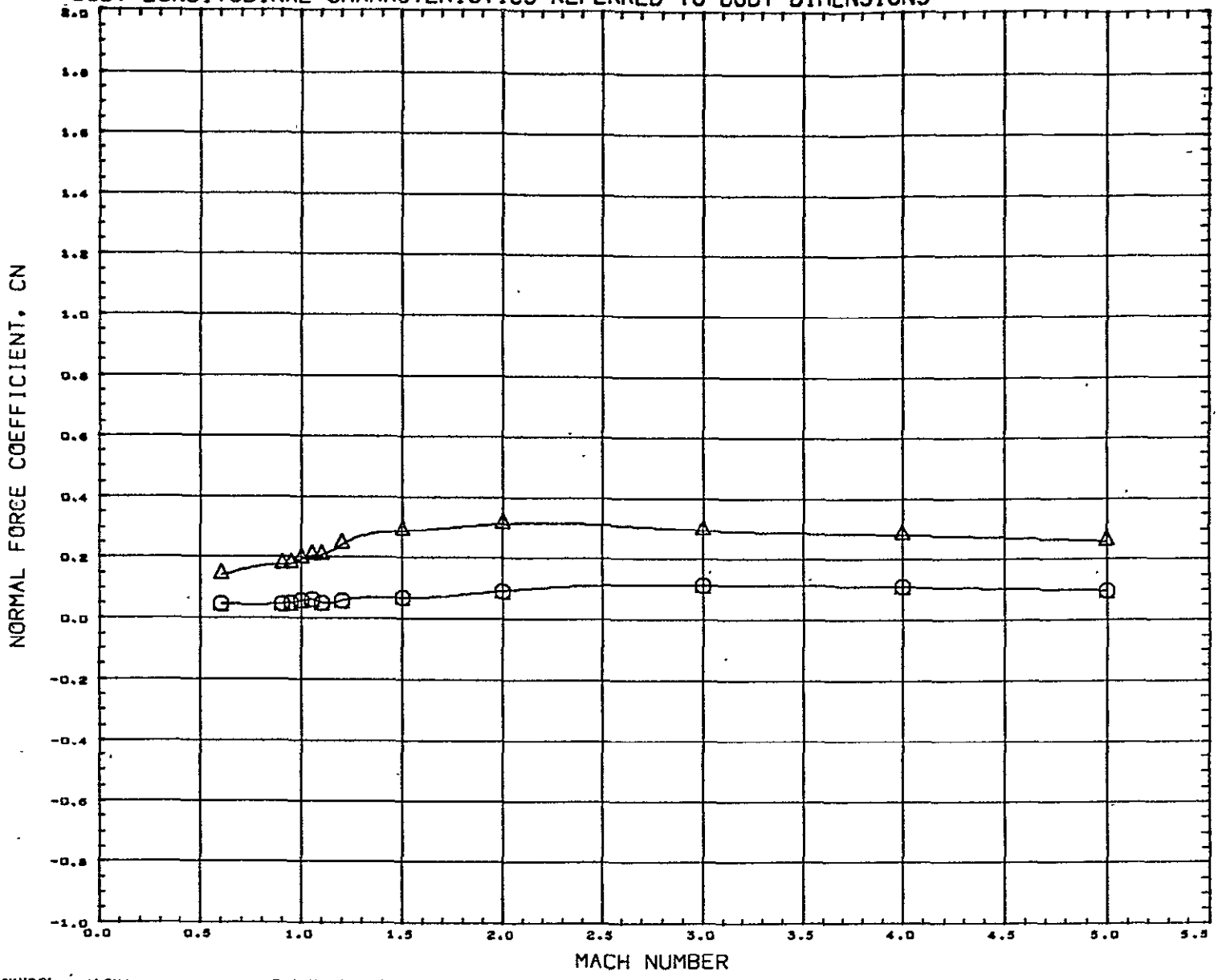
SYMBOL	ALPHA	PARAMETRIC VALUES	
○	- 10.000	BETA	0.000
△	0.000		
◇	10.000		

DATA HIST. CODE MVR*EIS

REFERENCE INFORMATION

SREF	12.5010	SQ.IN.
LREF	9.7340	IN.
BREF	1.3560	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY LONGITUDINAL CHARACTERISTICS REFERRED TO BODY DIMENSIONS



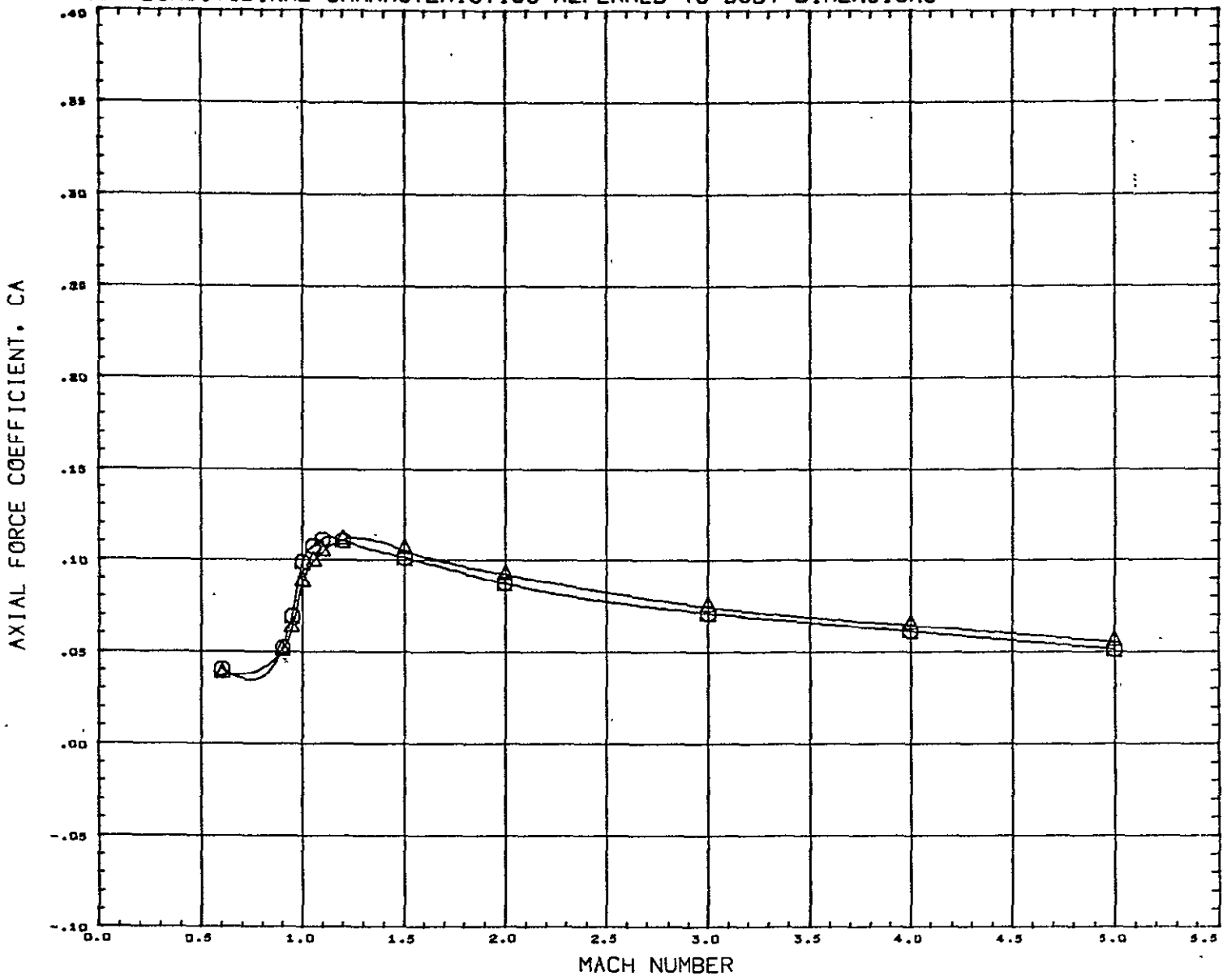
SYMBOL	ALPHA		PARAMETRIC VALUES		
△	10.000	BETA	0.000	RUDDER	0.000
○	20.000				

DATA HIST. CODE HVR*EIS

REFERENCE INFORMATION

SREF	12.5010	SQ.IN.
LREF	9.7340	IN.
BREF	1.3560	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY LONGITUDINAL CHARACTERISTICS REFERRED TO BODY DIMENSIONS



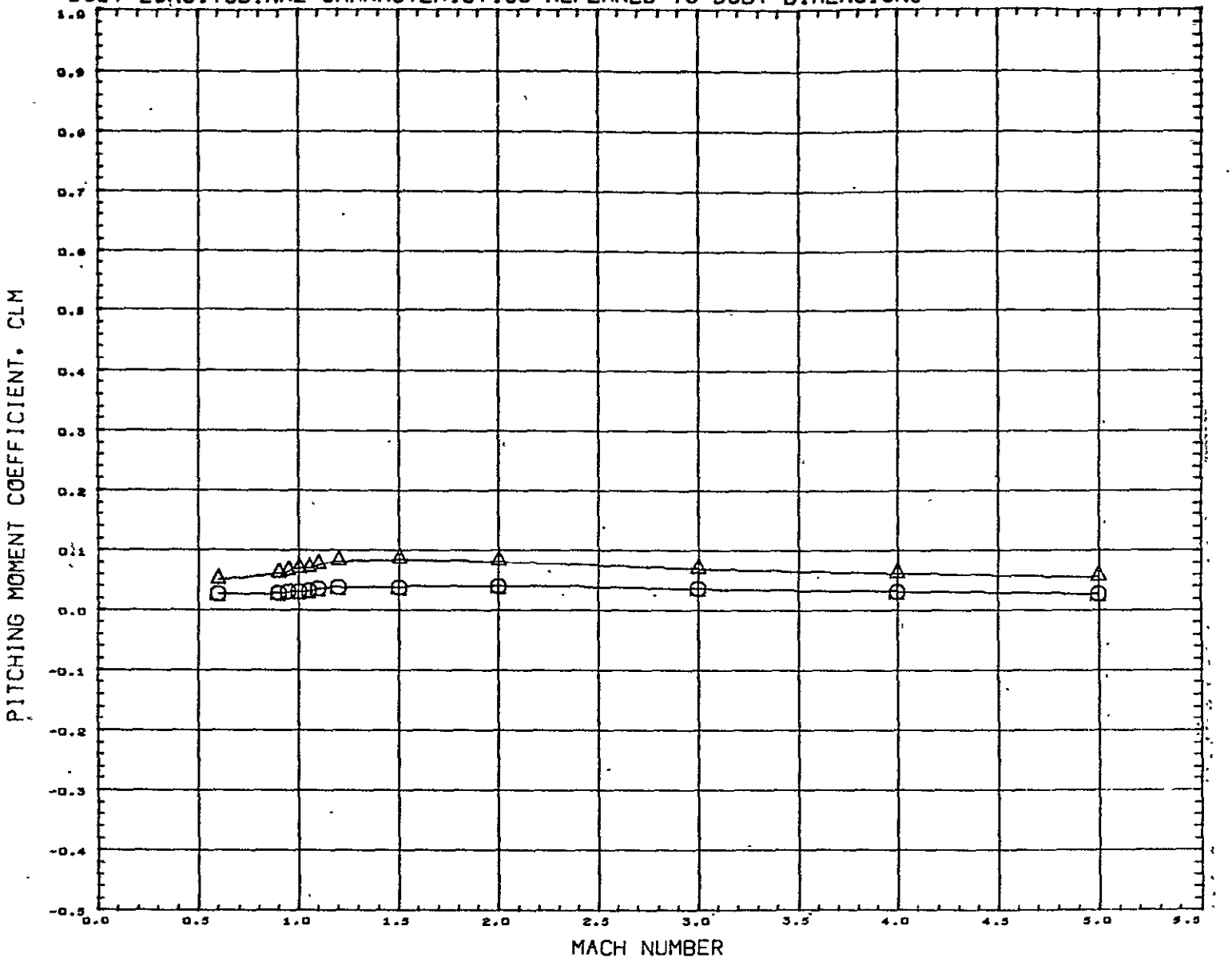
SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	RUDDER	0.000
△	20.000				

DATA HIST. CODE MVR*EIS

REFERENCE INFORMATION

SREF	12.5010	SQ.IN.
LREF	9.7340	IN.
BREF	1.3560	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

BODY LONGITUDINAL CHARACTERISTICS REFERRED TO BODY DIMENSIONS



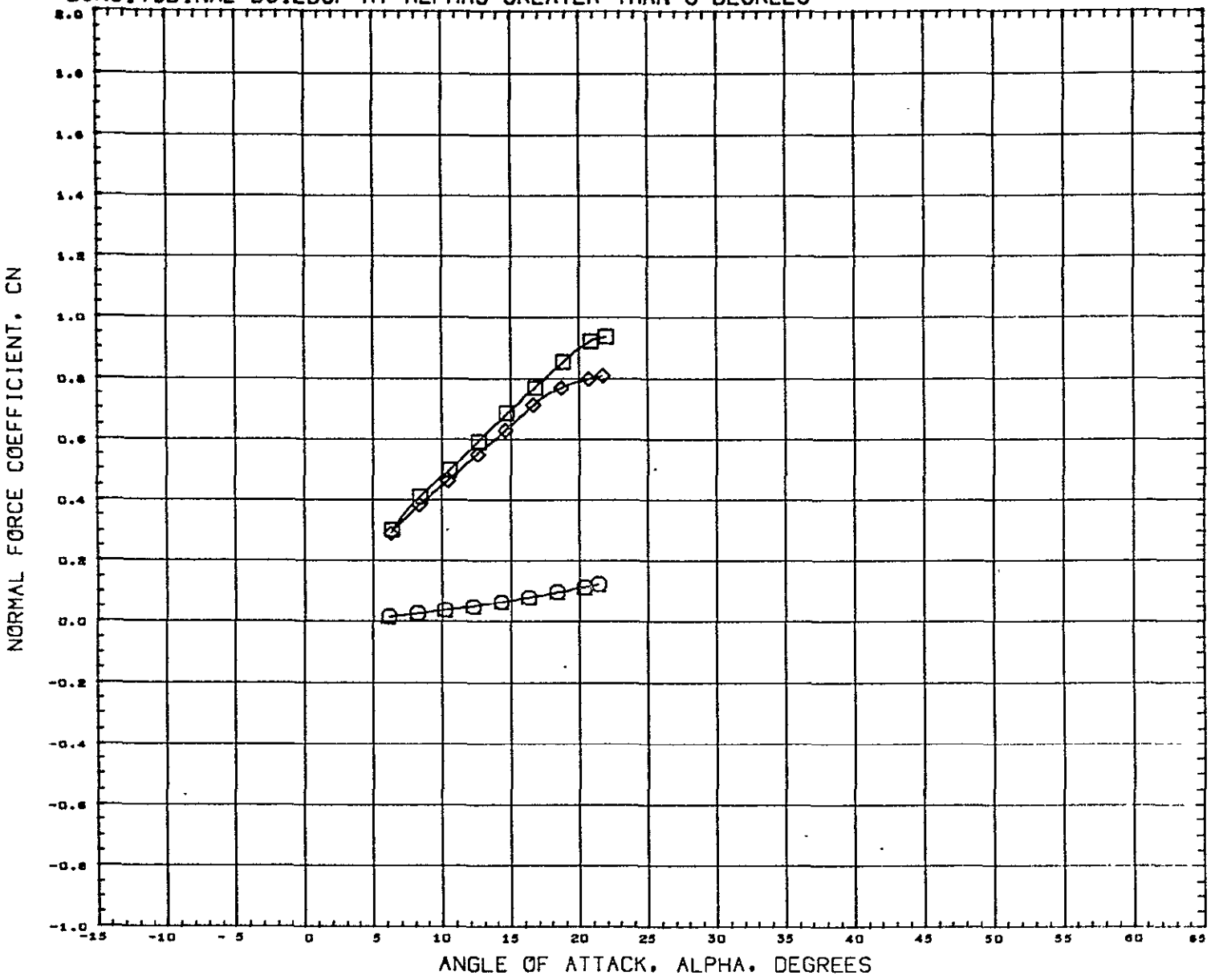
SYMBOL	ALPHA		PARAMETRIC VALUES		
○	10.000	BETA	0.000	RUDDER	0.000
△	20.000				

DATA HIST. CODE HVR*EIS

REFERENCE INFORMATION

SREF	12.5010	SQ.IN.
LREF	9.7340	IN.
BREF	1.3560	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

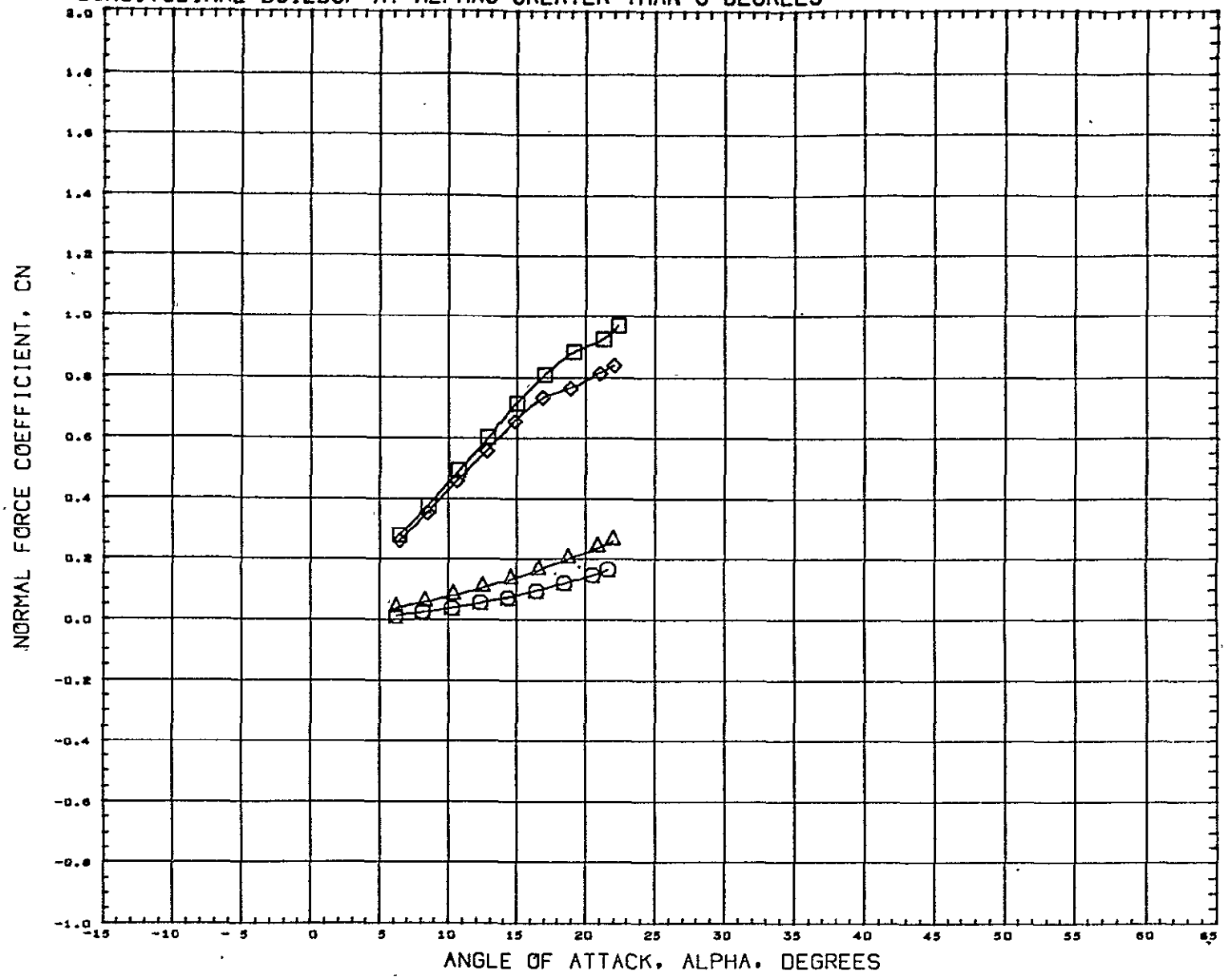


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C20004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C20013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C20005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C20001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

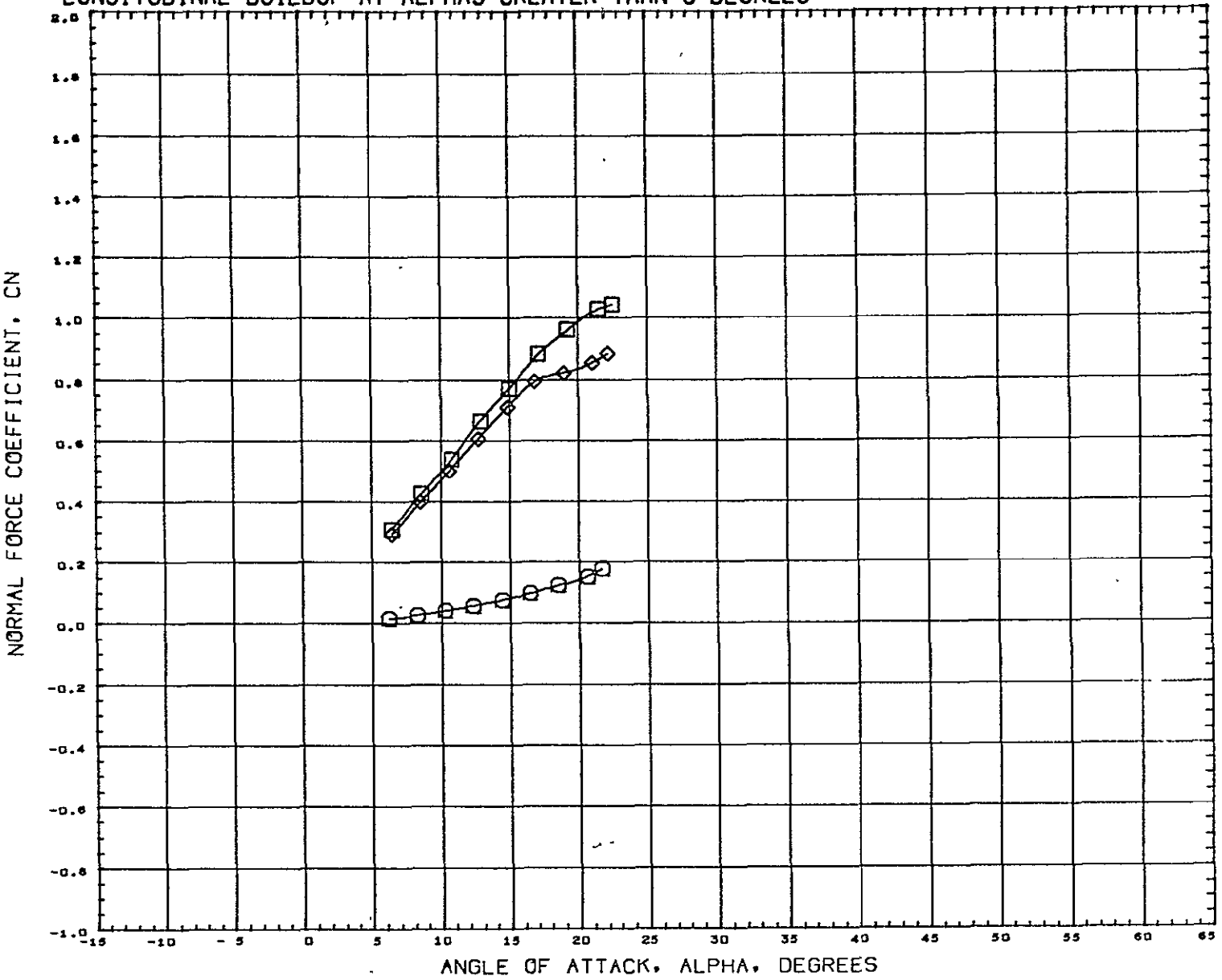


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 0.907

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

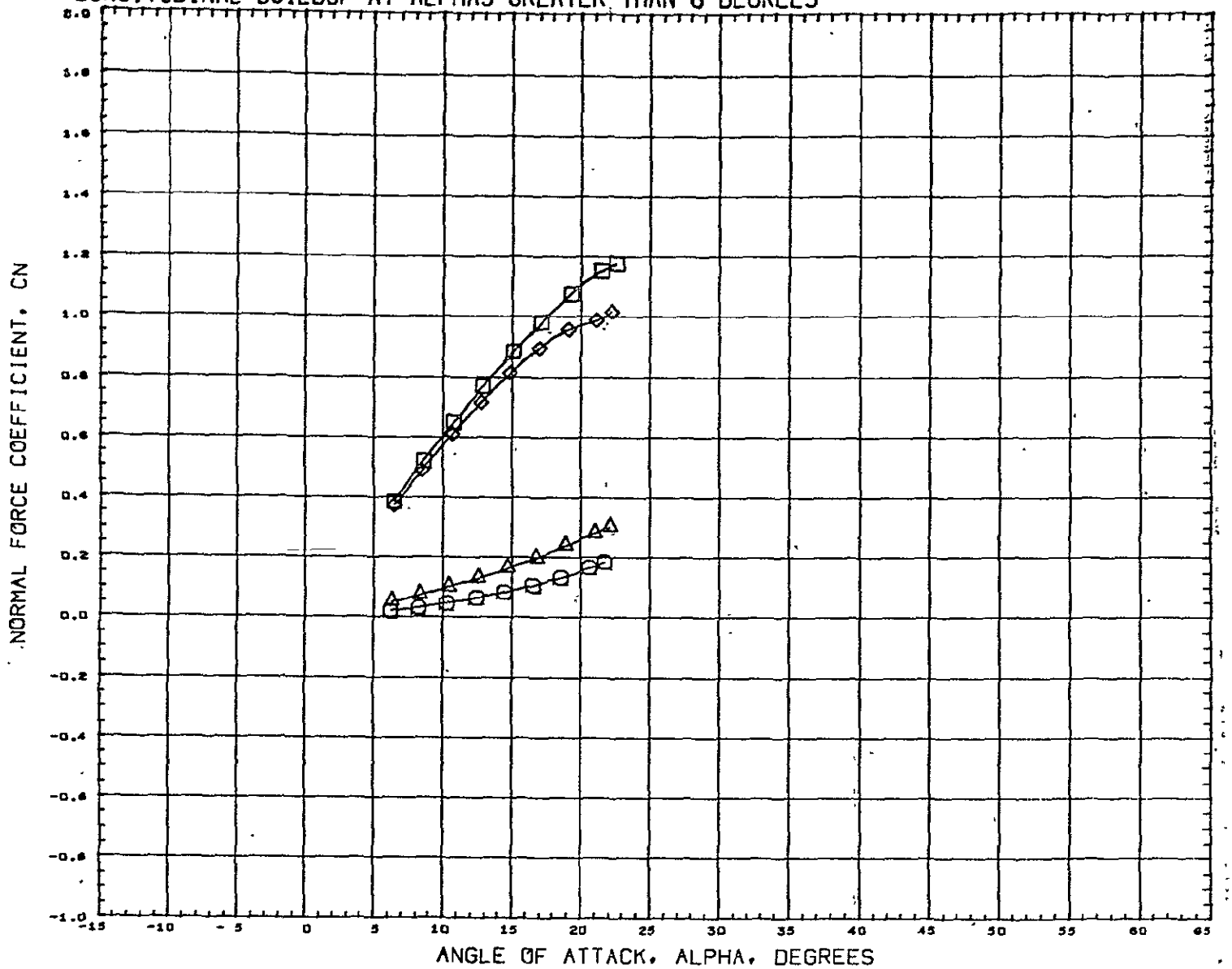


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.957

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES



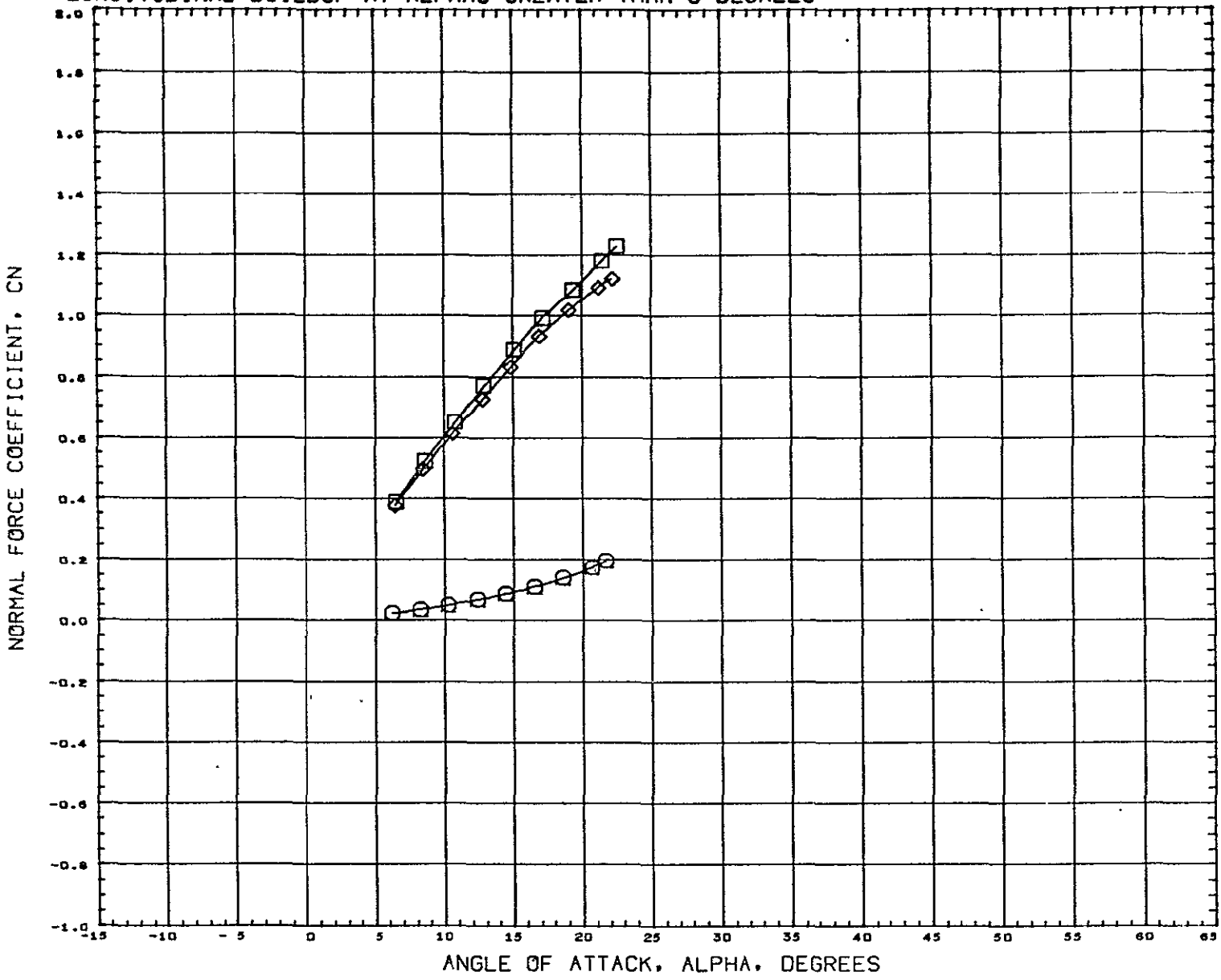
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C26004)	○	MSFC481 GD/C(BOOSTER)B19V7
(C26013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7
(C26005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7
(C26001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7

ELEVON	AILRON	CANARD	BETA
			0.000
		0.000	0.000
0.000	0.000		0.000
0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.005

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

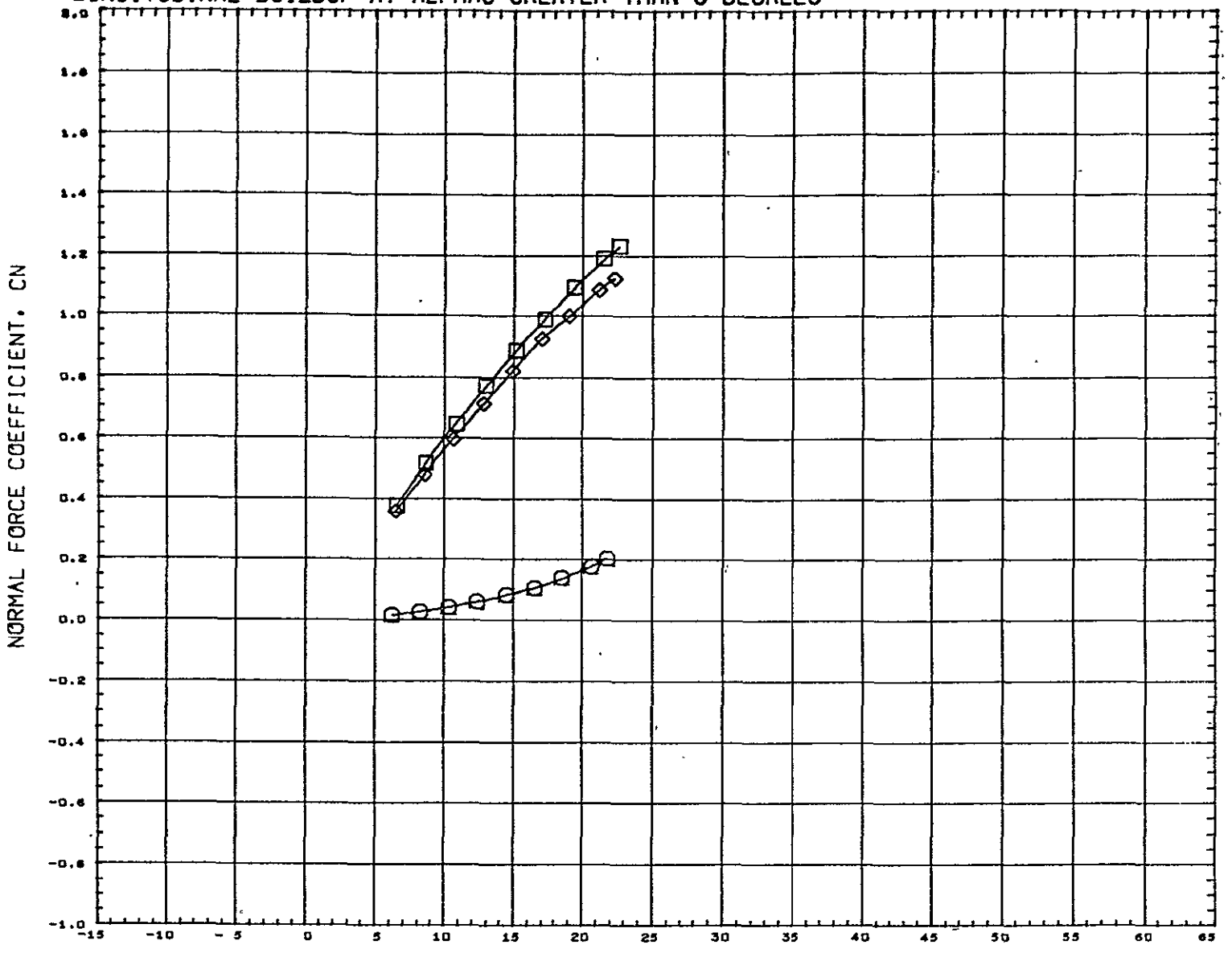


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)		MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)		DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)		MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6360	Sq.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.054

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

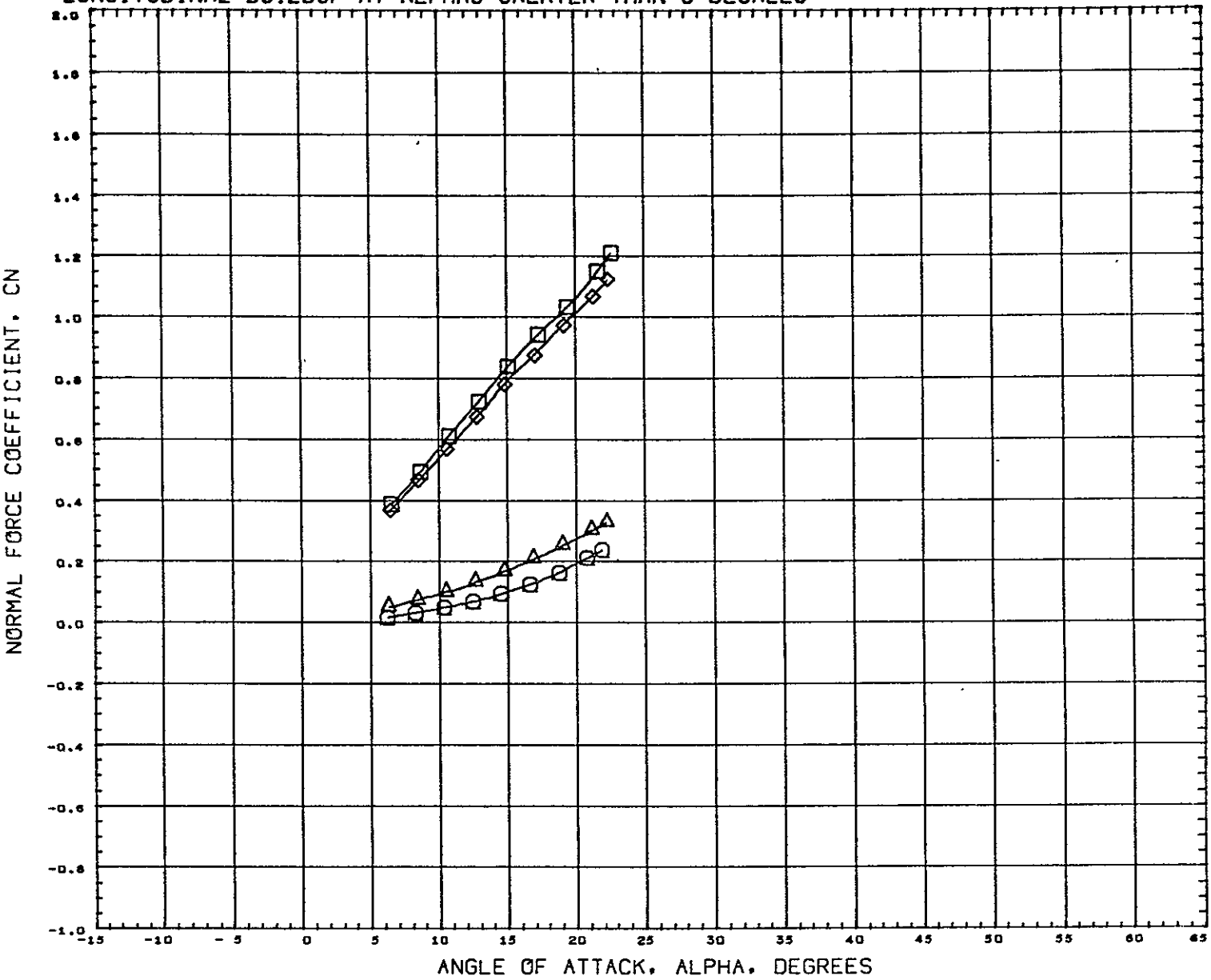


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C26004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C26013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C26005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C26001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 1.100

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

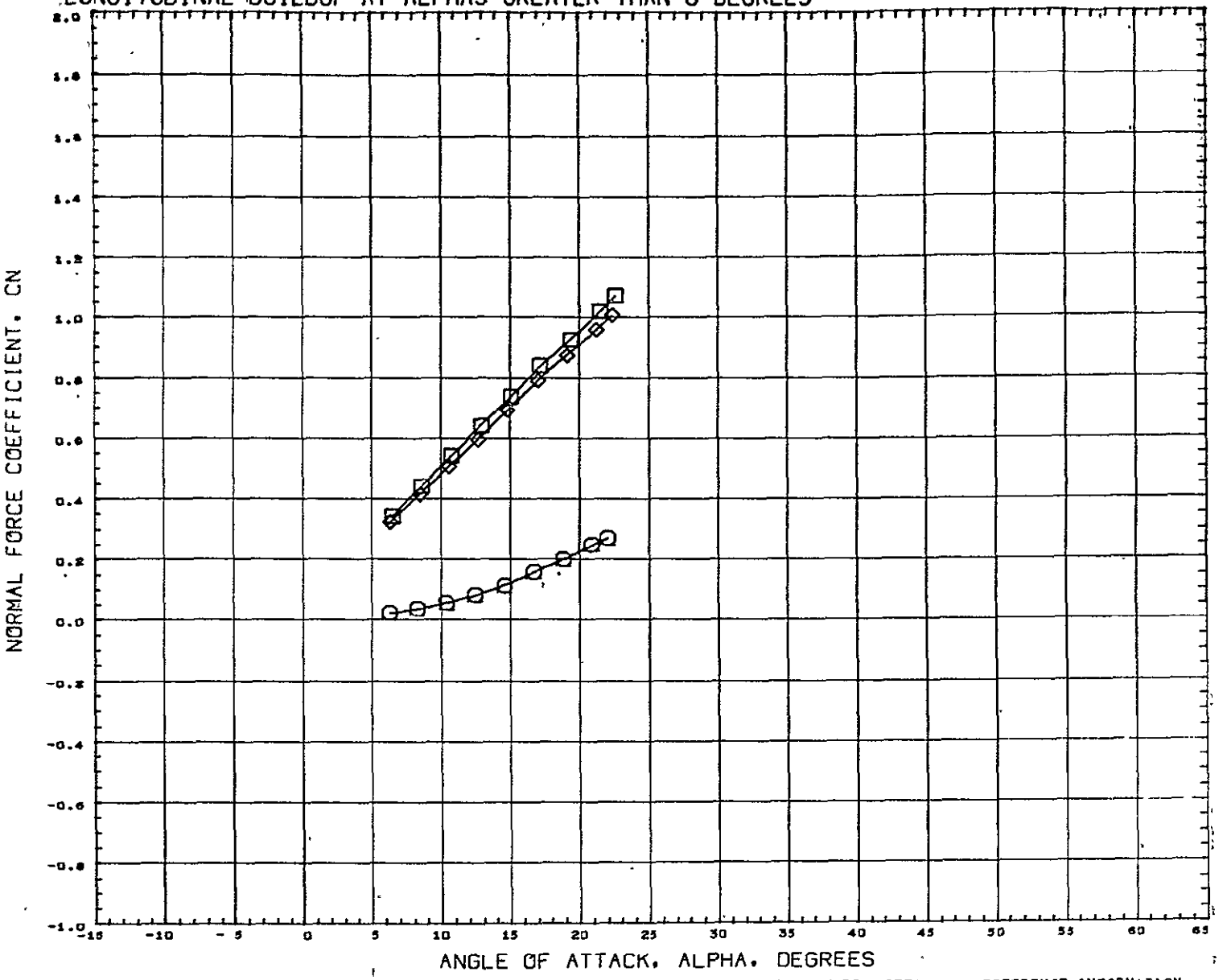


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 1.198

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

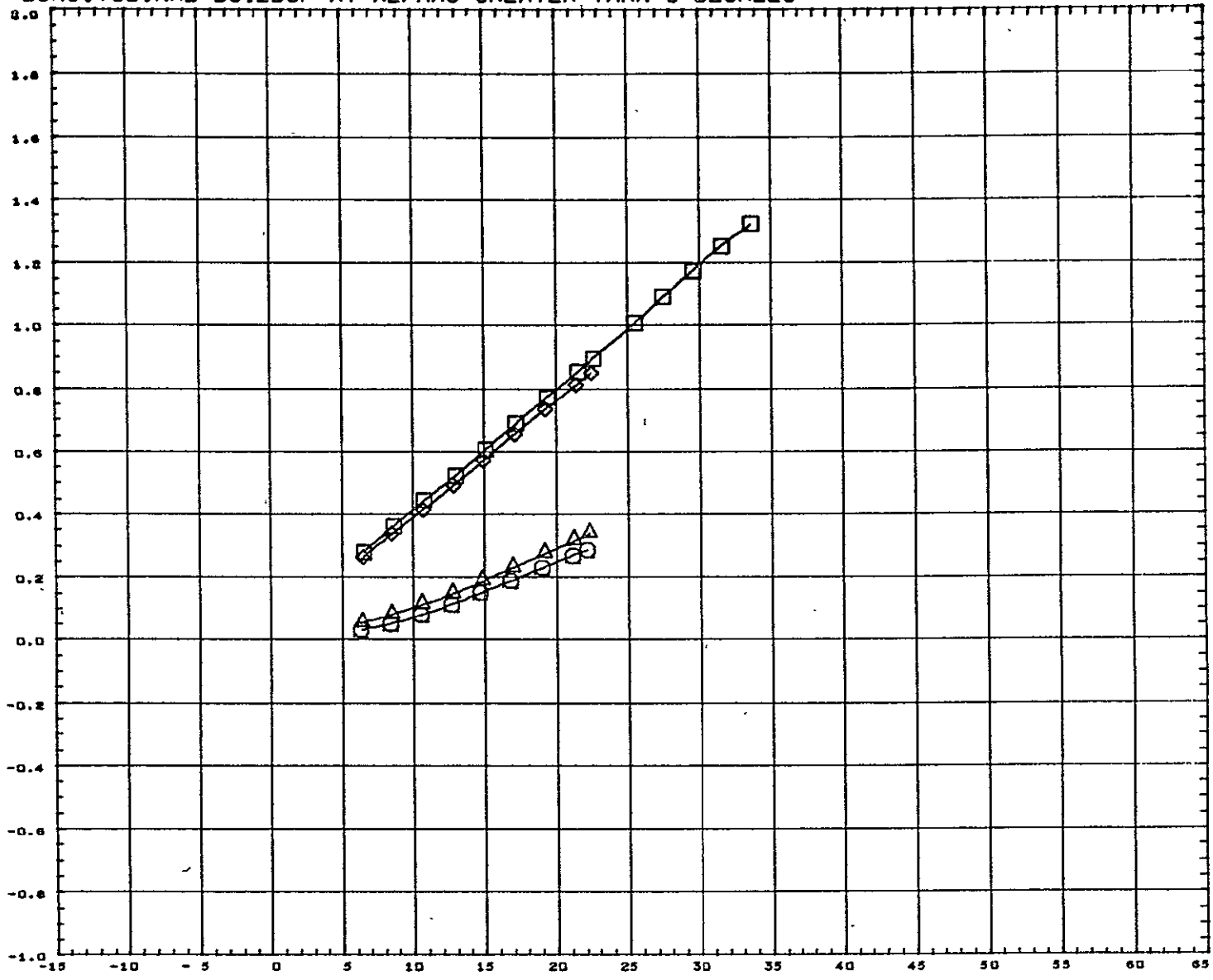


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	HSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)	◇	HSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	HSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 1.463

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

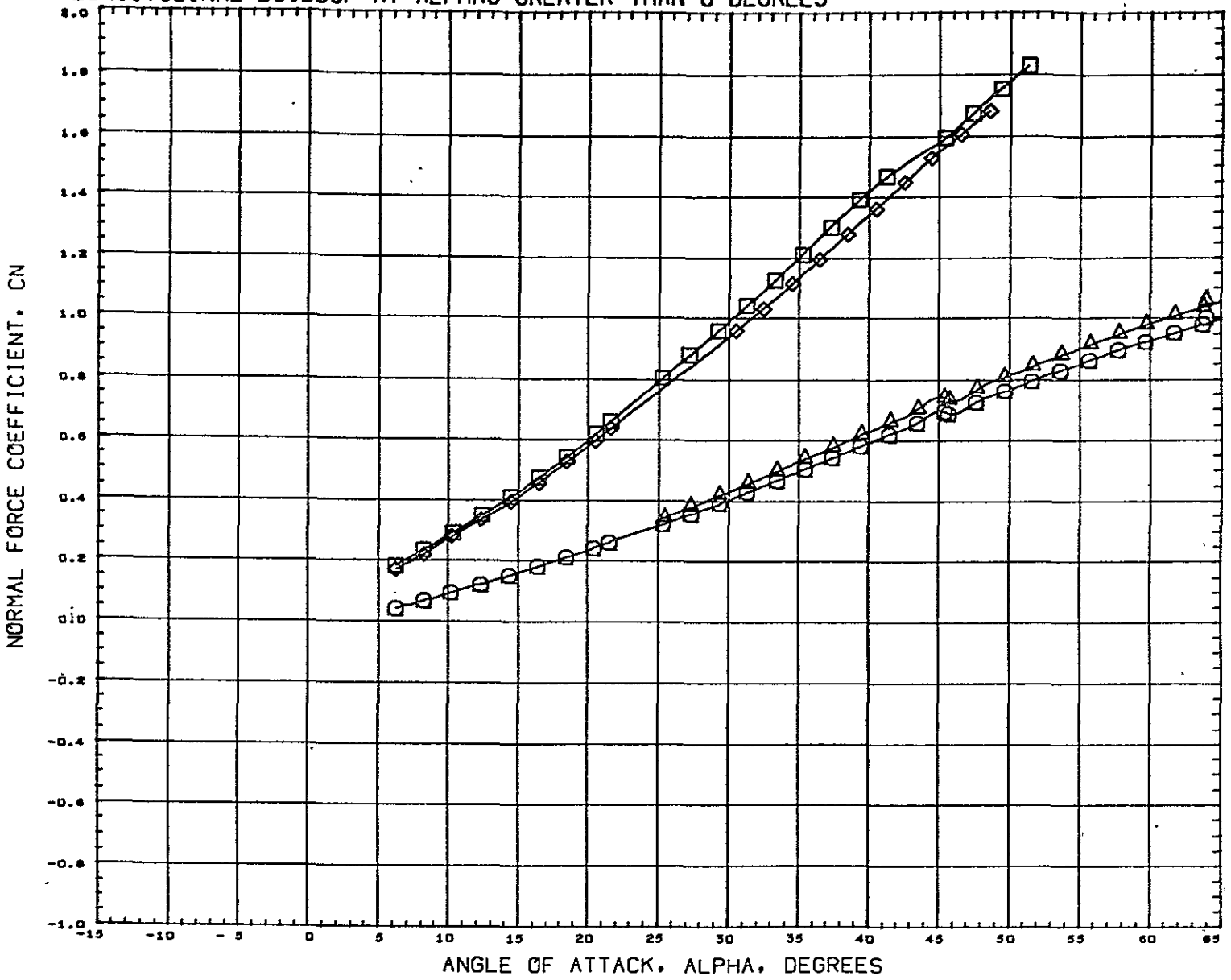


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.966

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

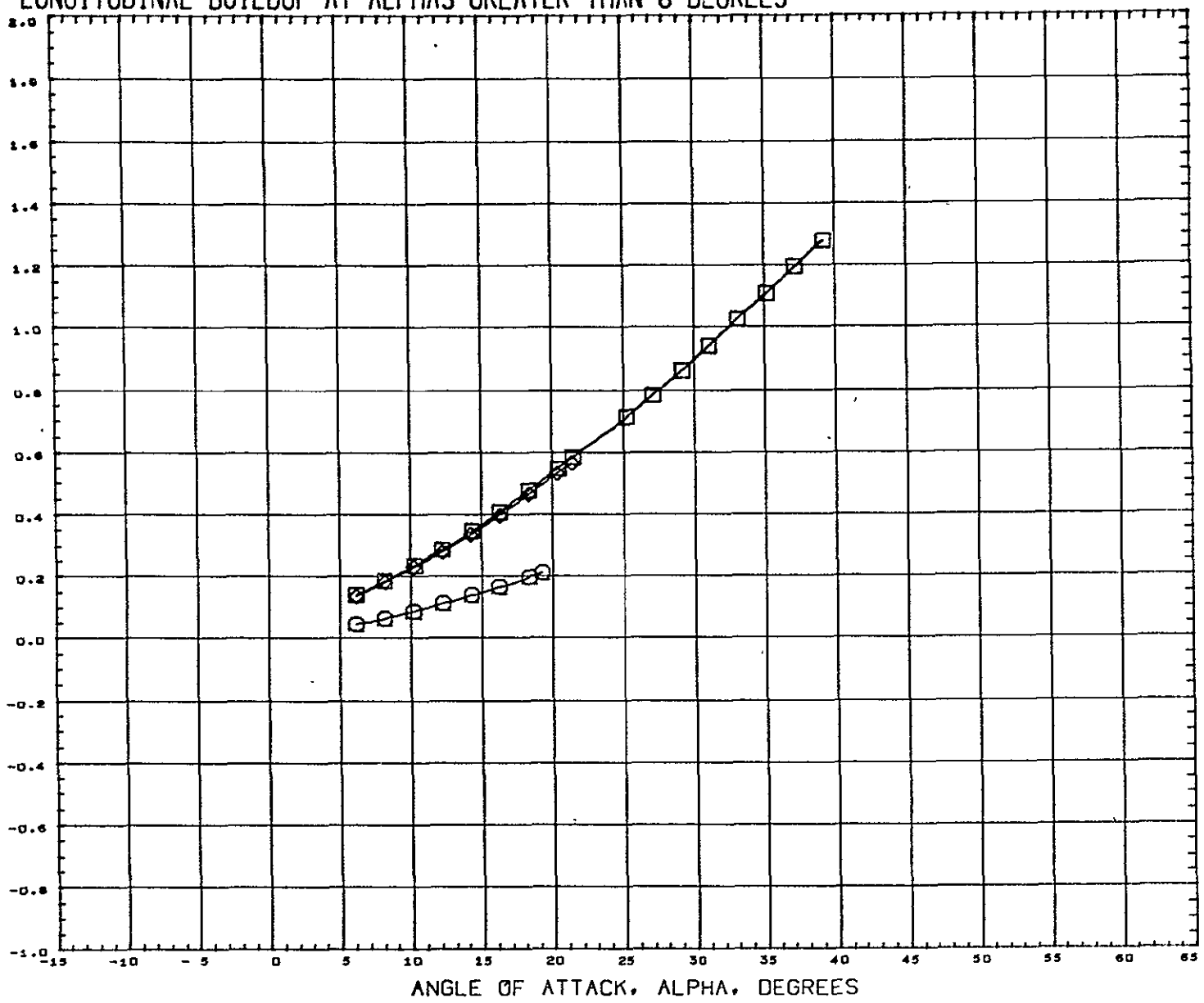


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C26004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C26013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C26005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C26001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0930	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

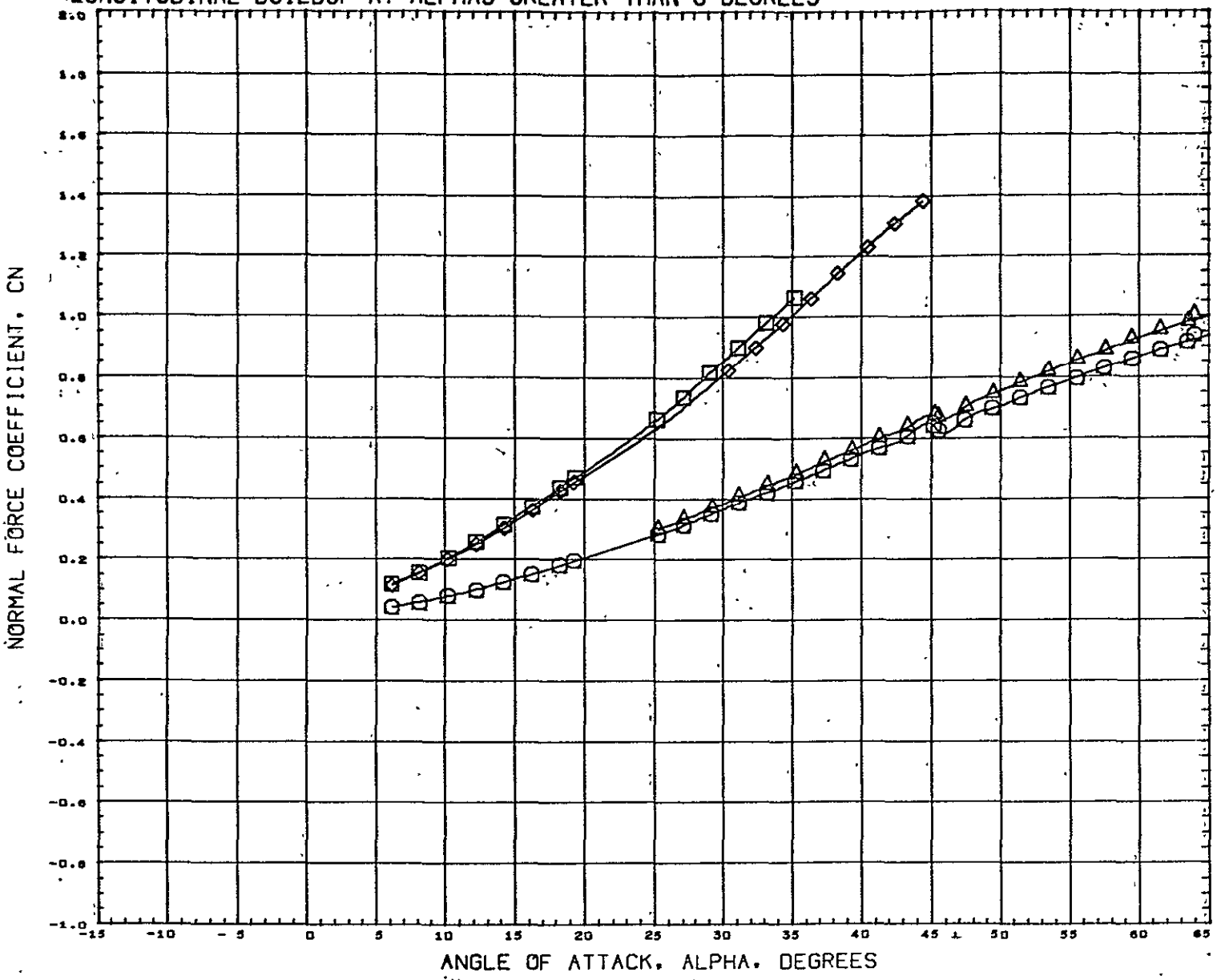


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0930	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0036	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

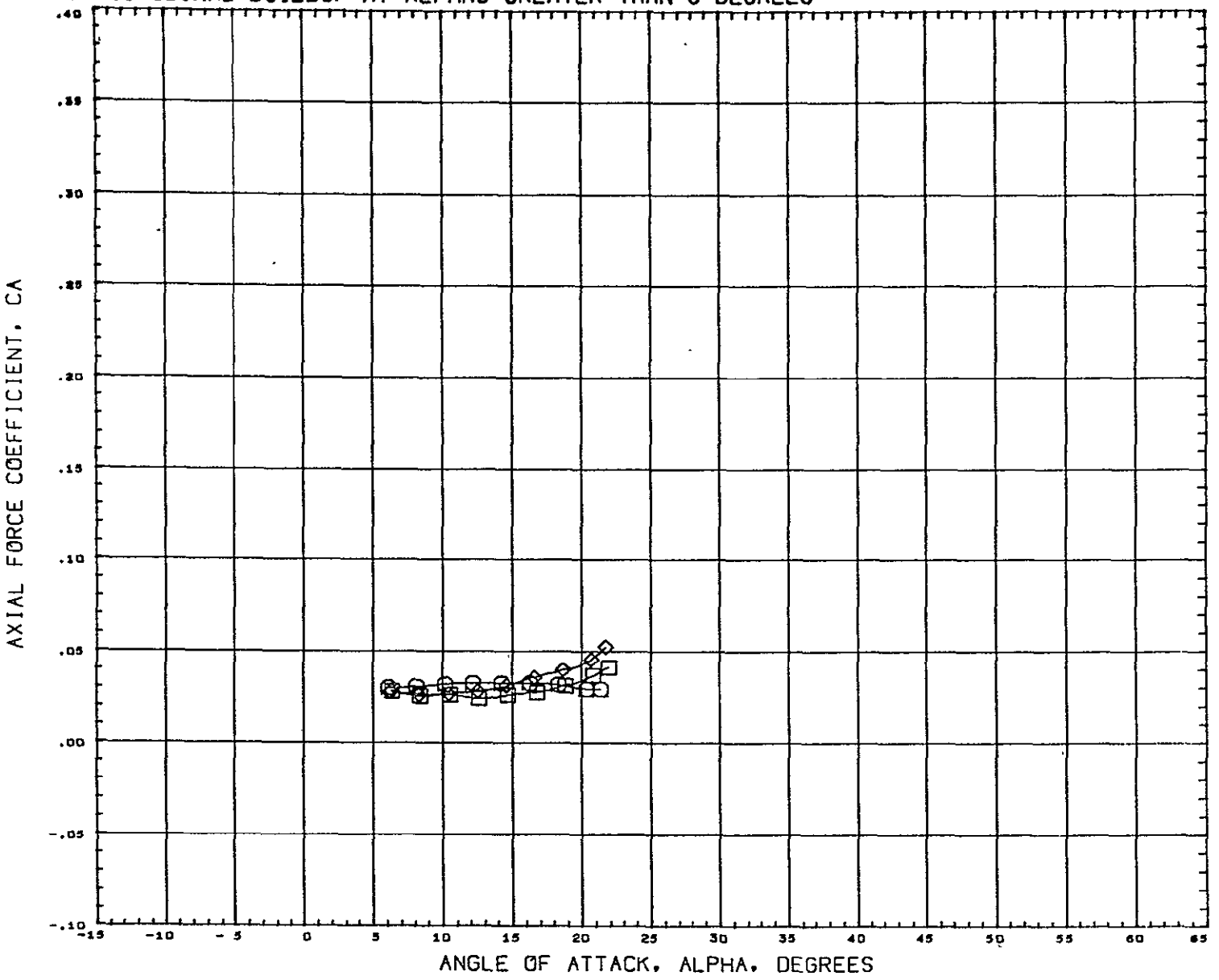


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 4.960

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

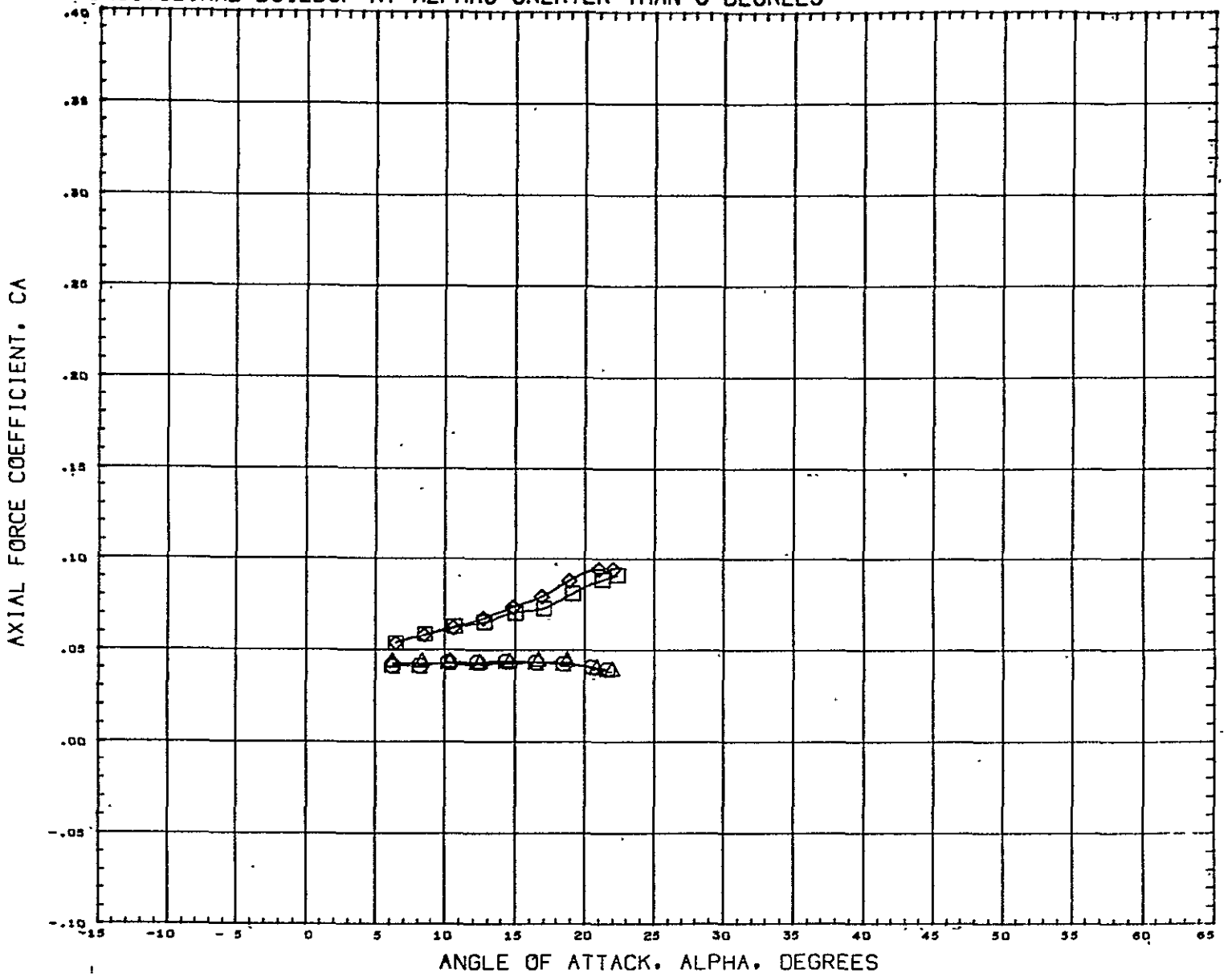


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

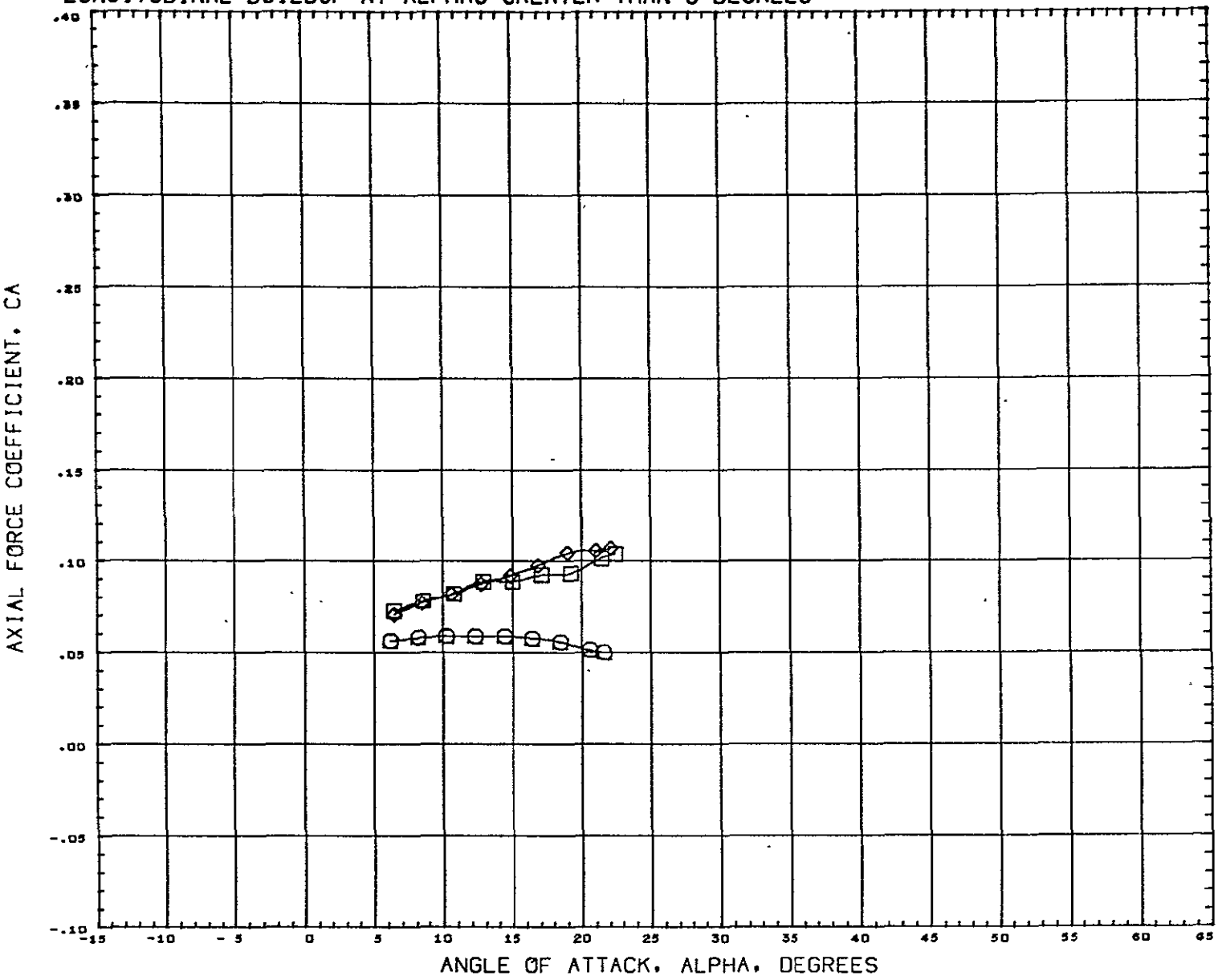


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 0.907

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

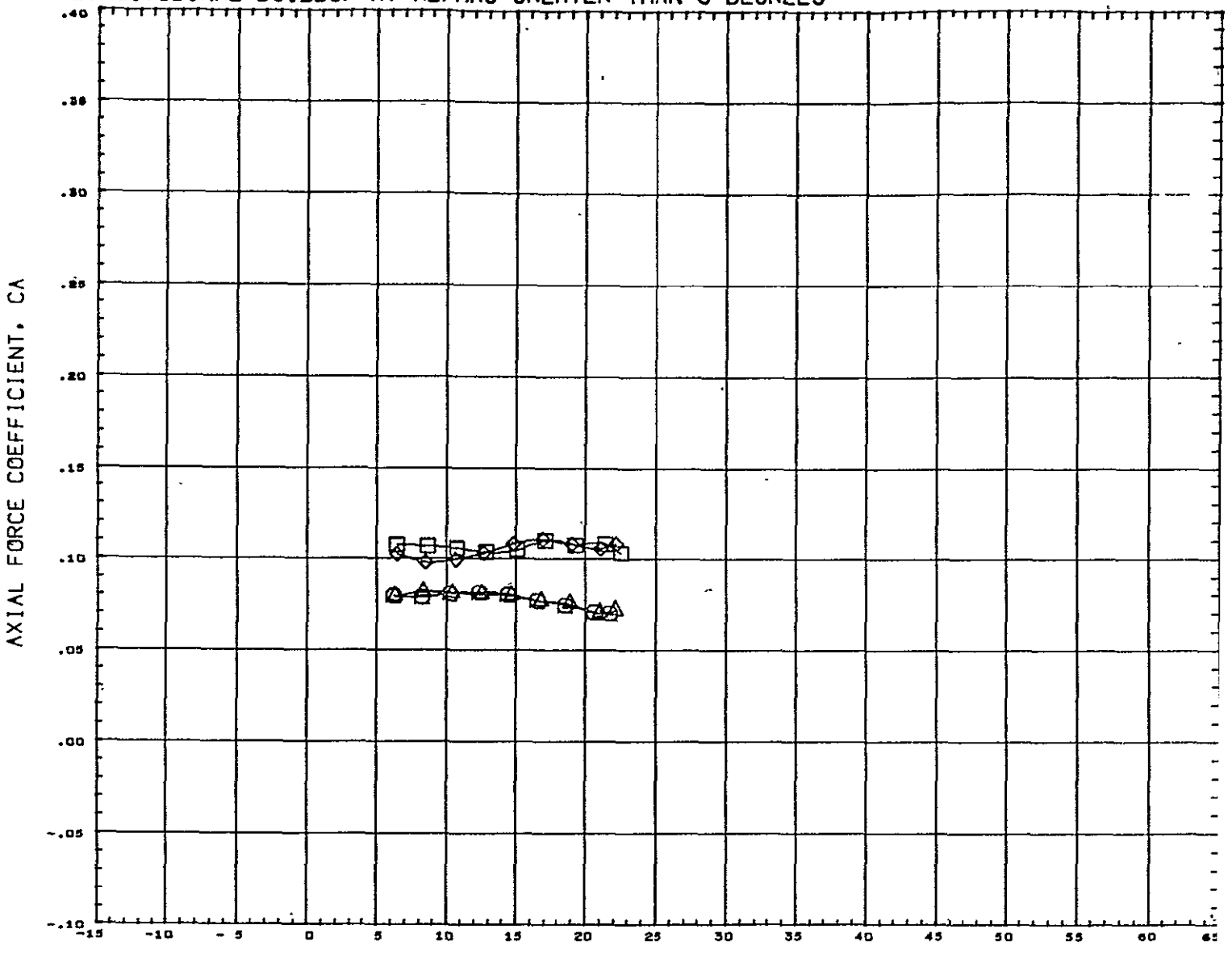


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C26004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C26013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C26005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C26001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.957

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

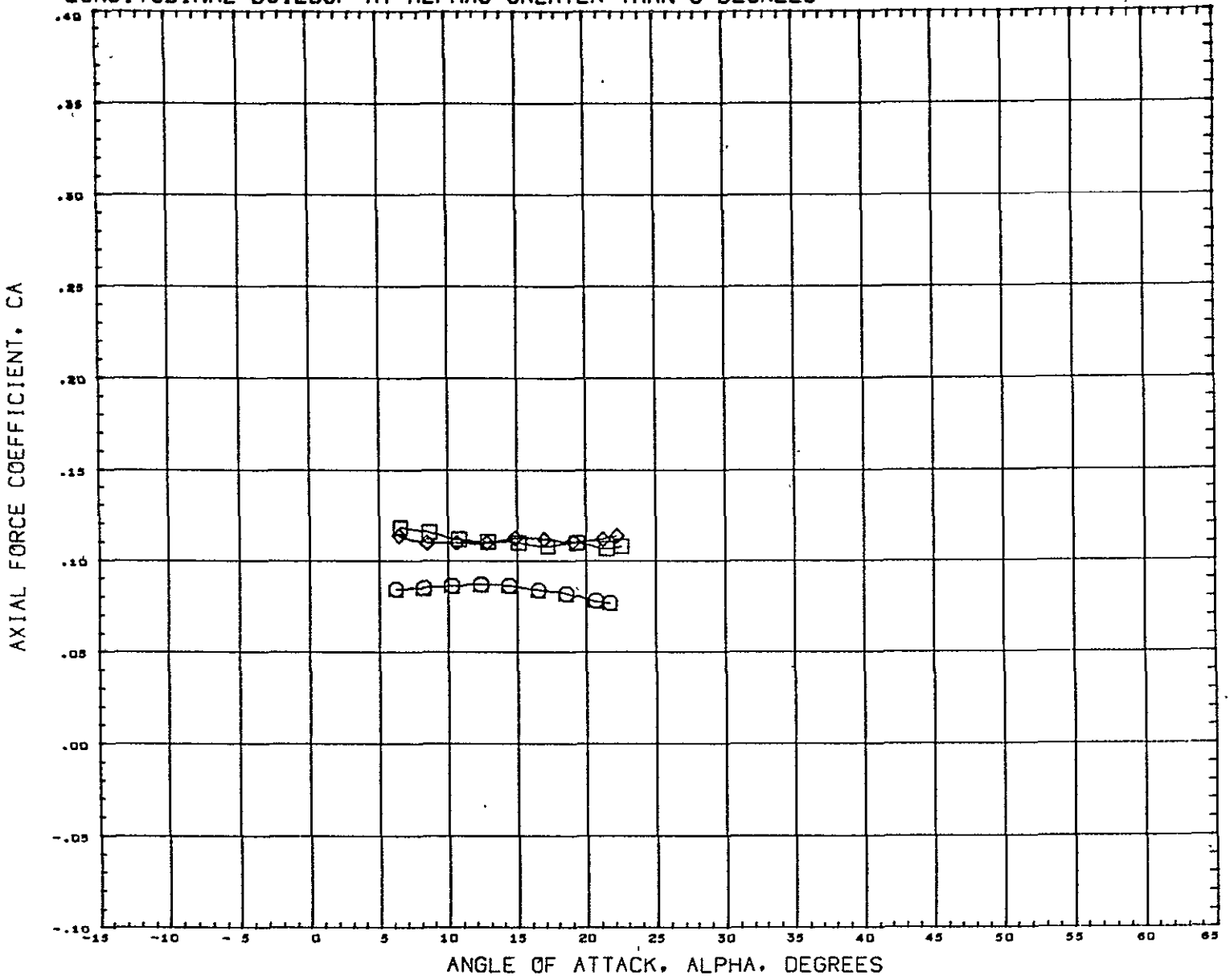


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C26004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C26013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C26005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C26001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 1.005

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0033	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

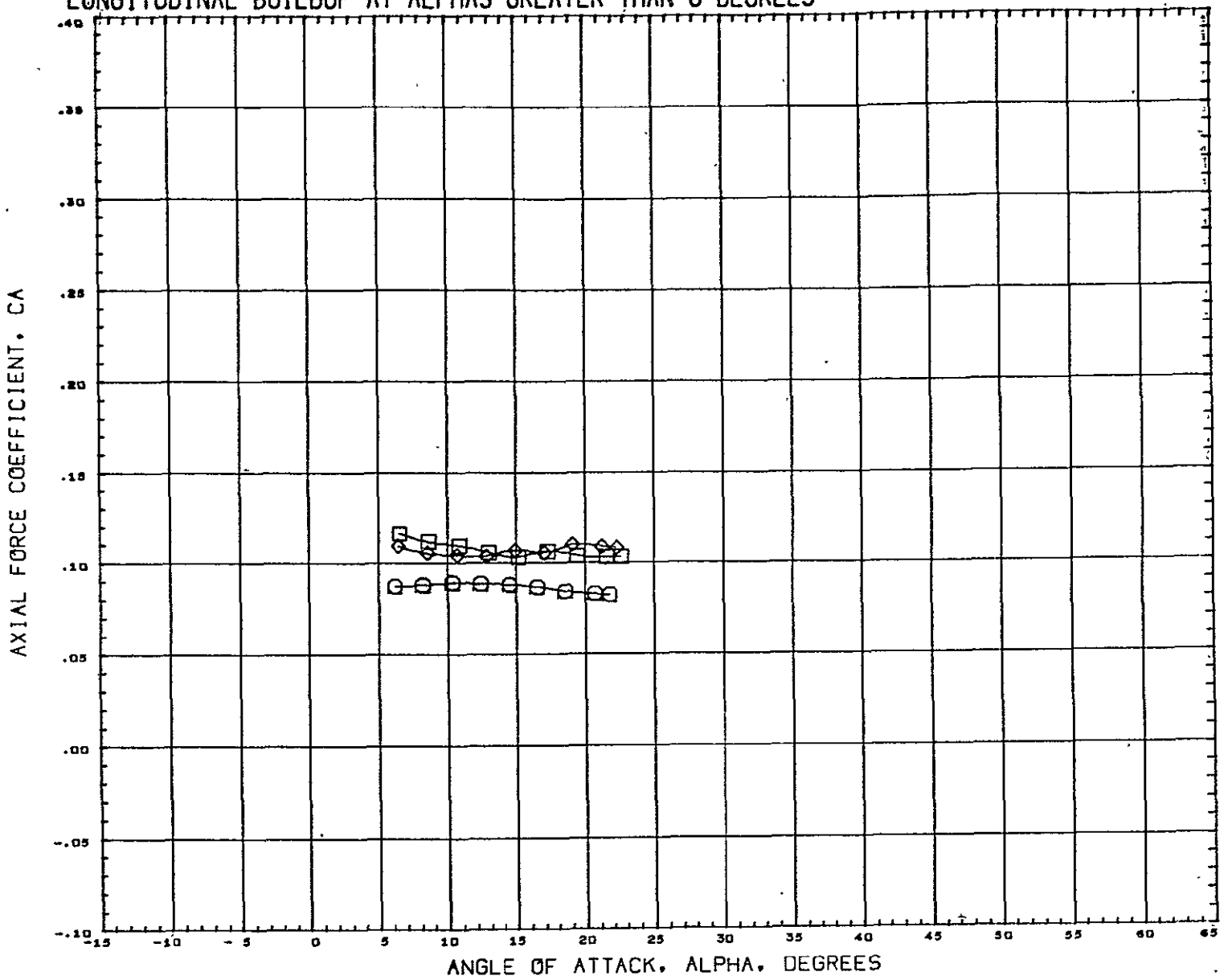


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.054

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES



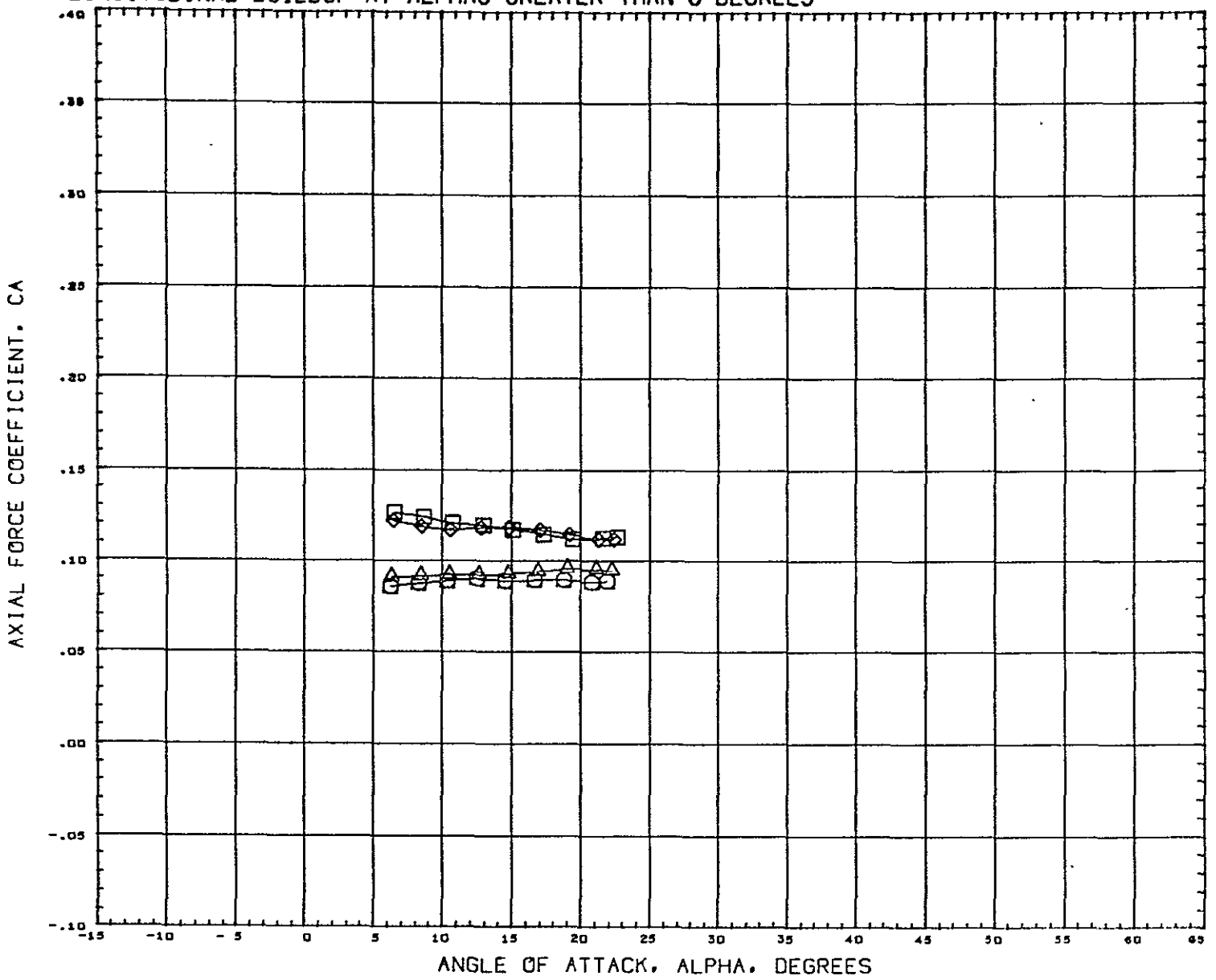
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C26004)	○	HSFC481 GD/C(BOOSTER)B19V7
(C26013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(C26005)	◇	HSFC481 GD/C(BOOSTER)B19W14V7
(C26001)	□	HSFC481 GD/C(BOOSTER)B19W14C4AV7

ELEVON	AILRON	CANARD	BETA
			0.000
		0.000	0.000
			0.000
0.000	0.000		
0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.100

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

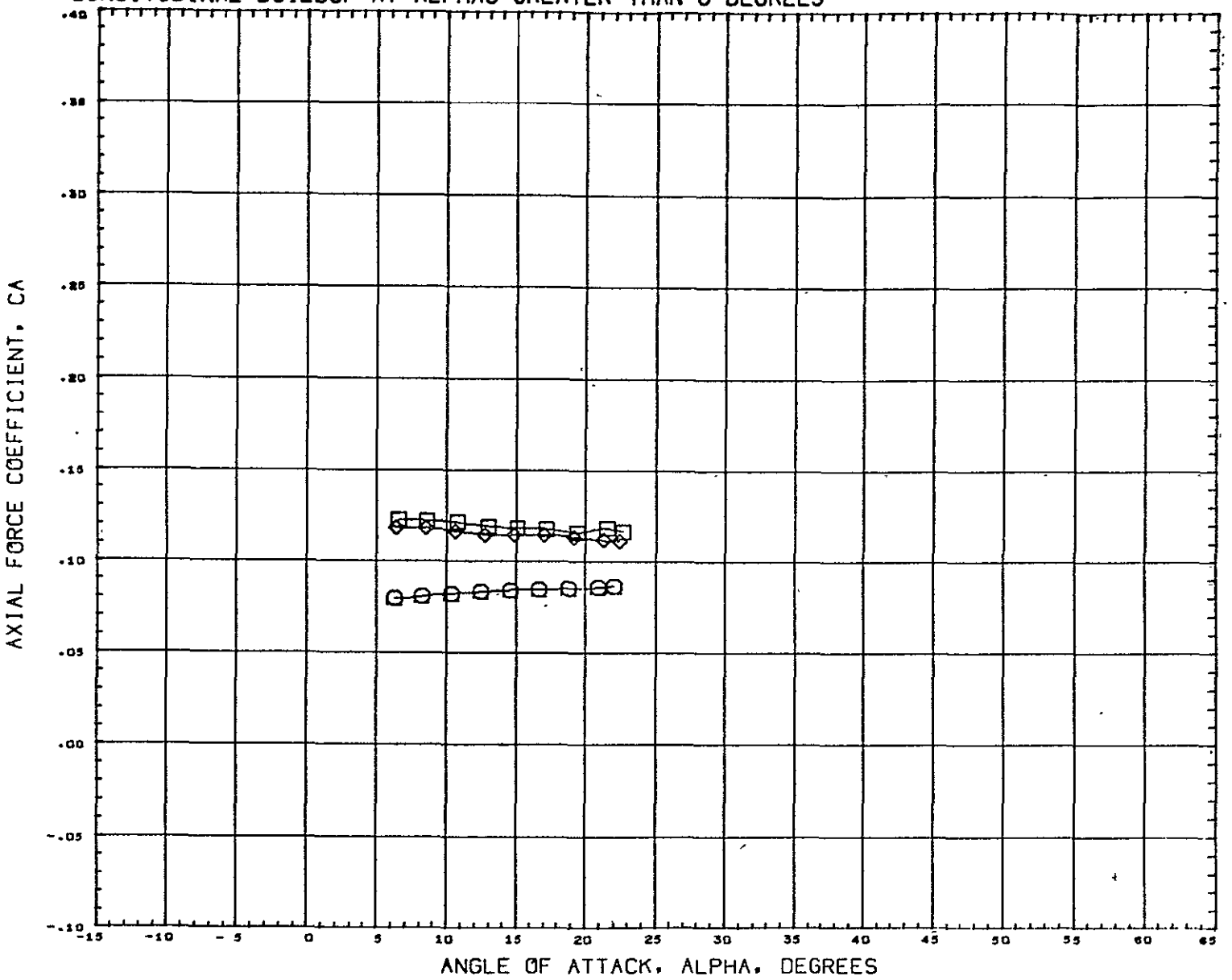


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
*(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 1.198

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

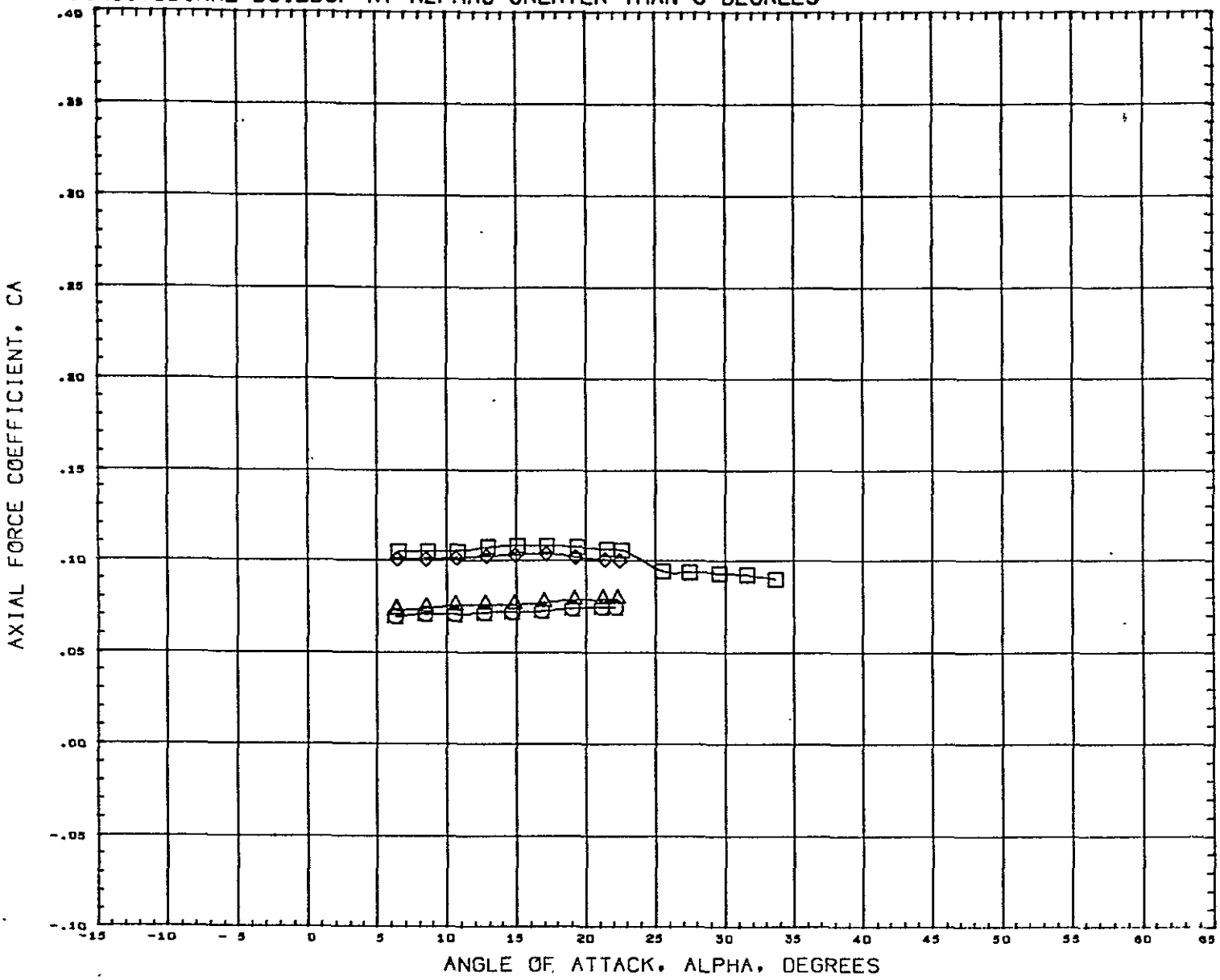


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)		MSFC461 GD/C(BOOSTER)B19V7				0.000
(C28013)		DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)		MSFC461 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 1.463

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

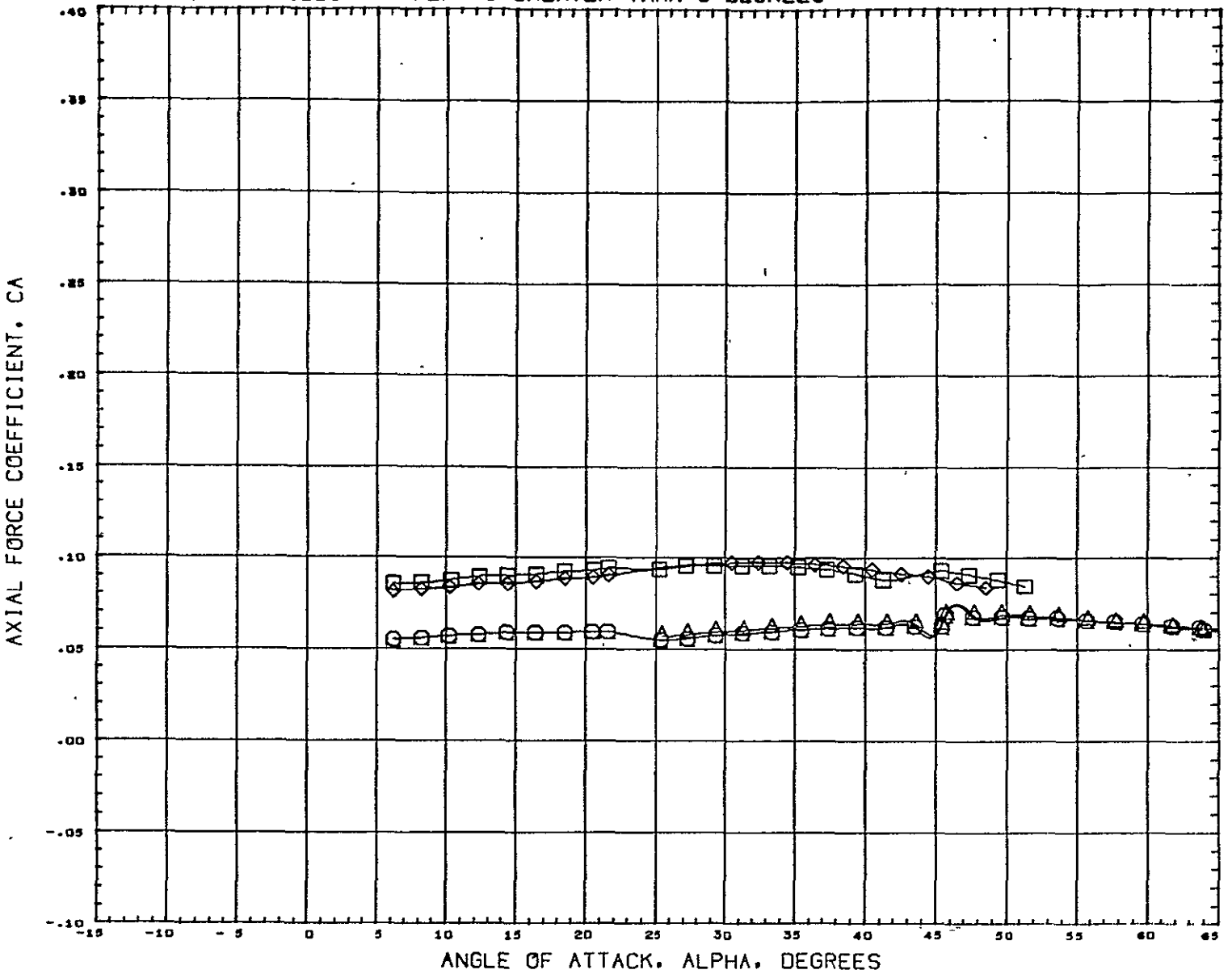


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)		MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)		MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)		MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0990	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.966

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

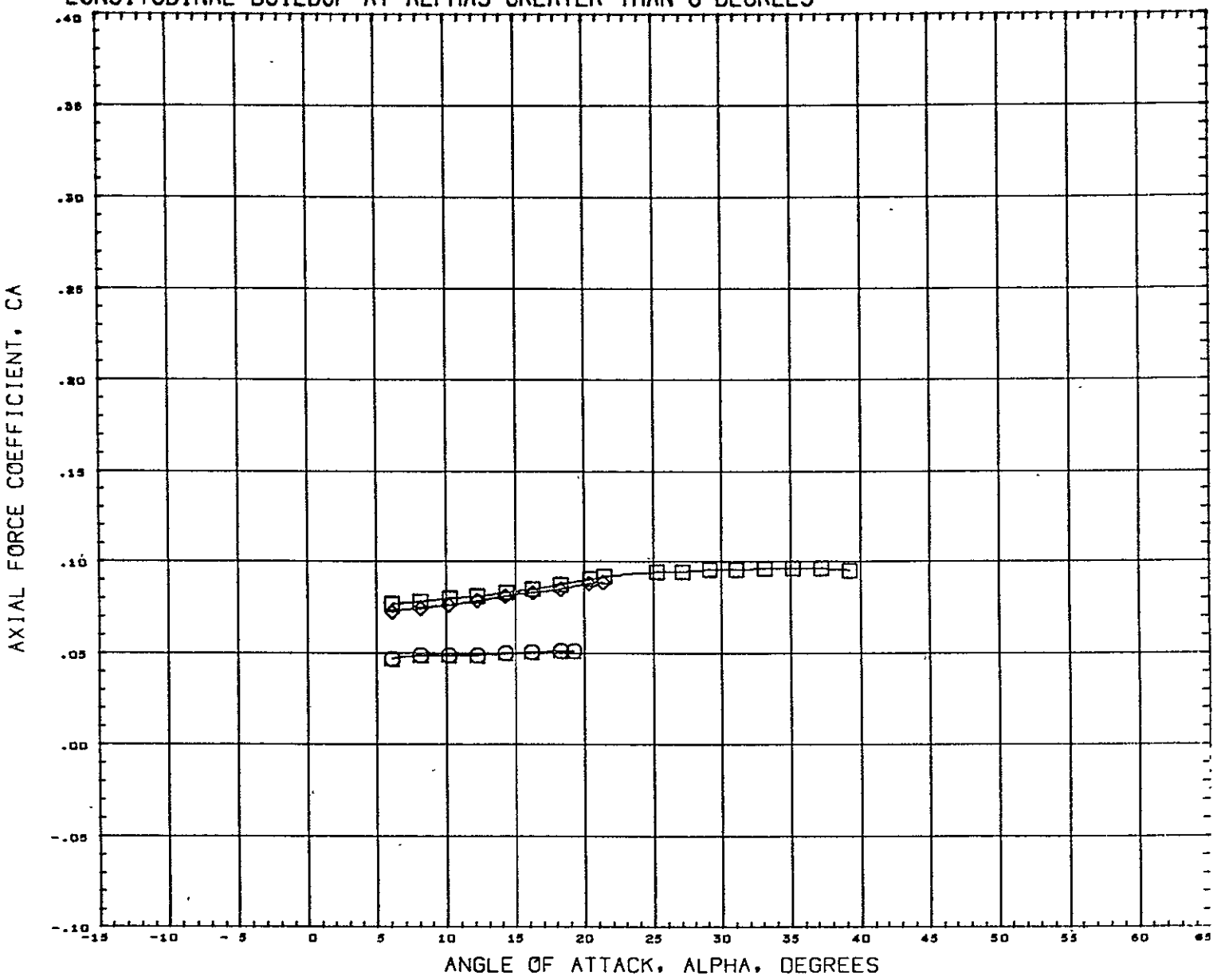


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

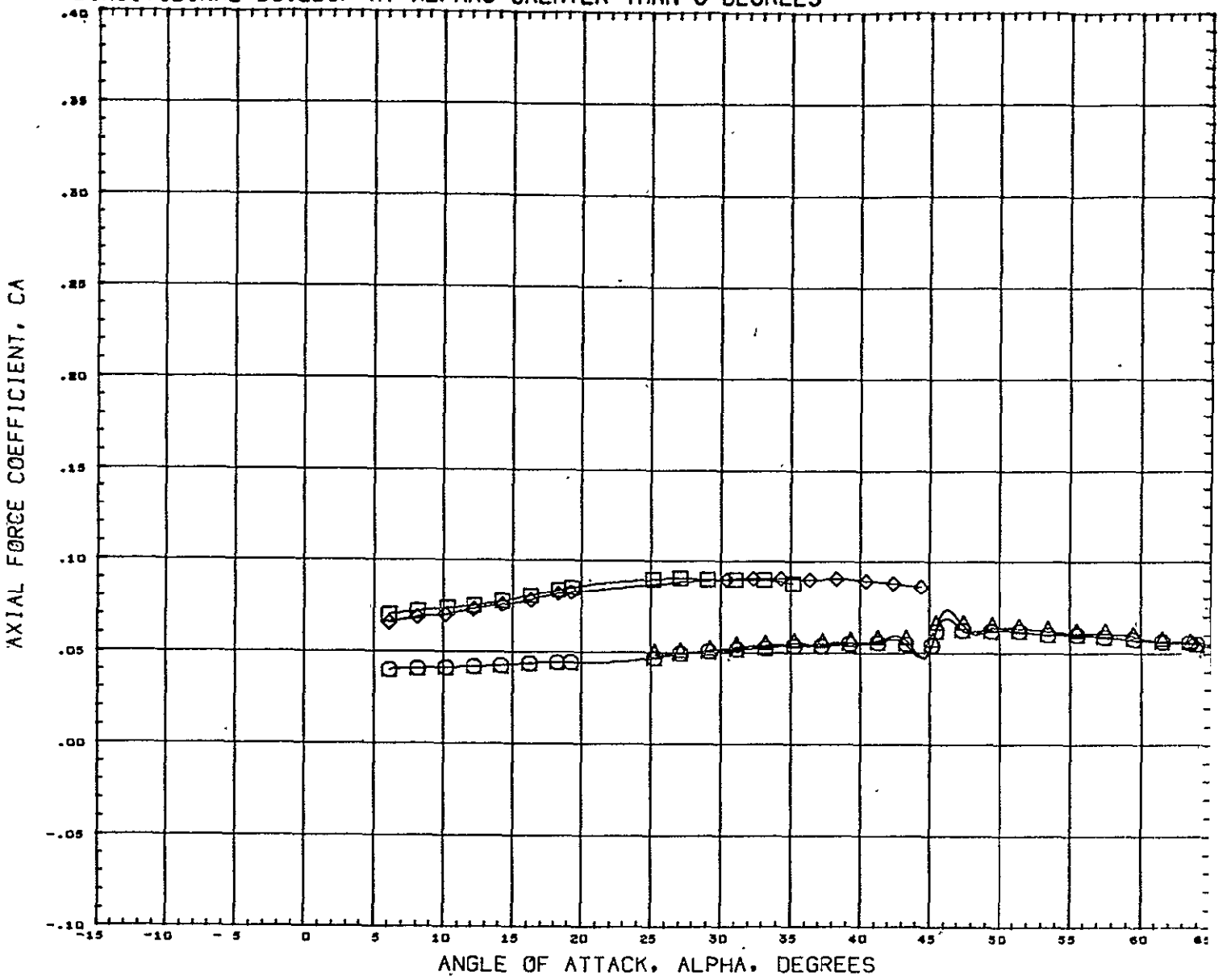


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

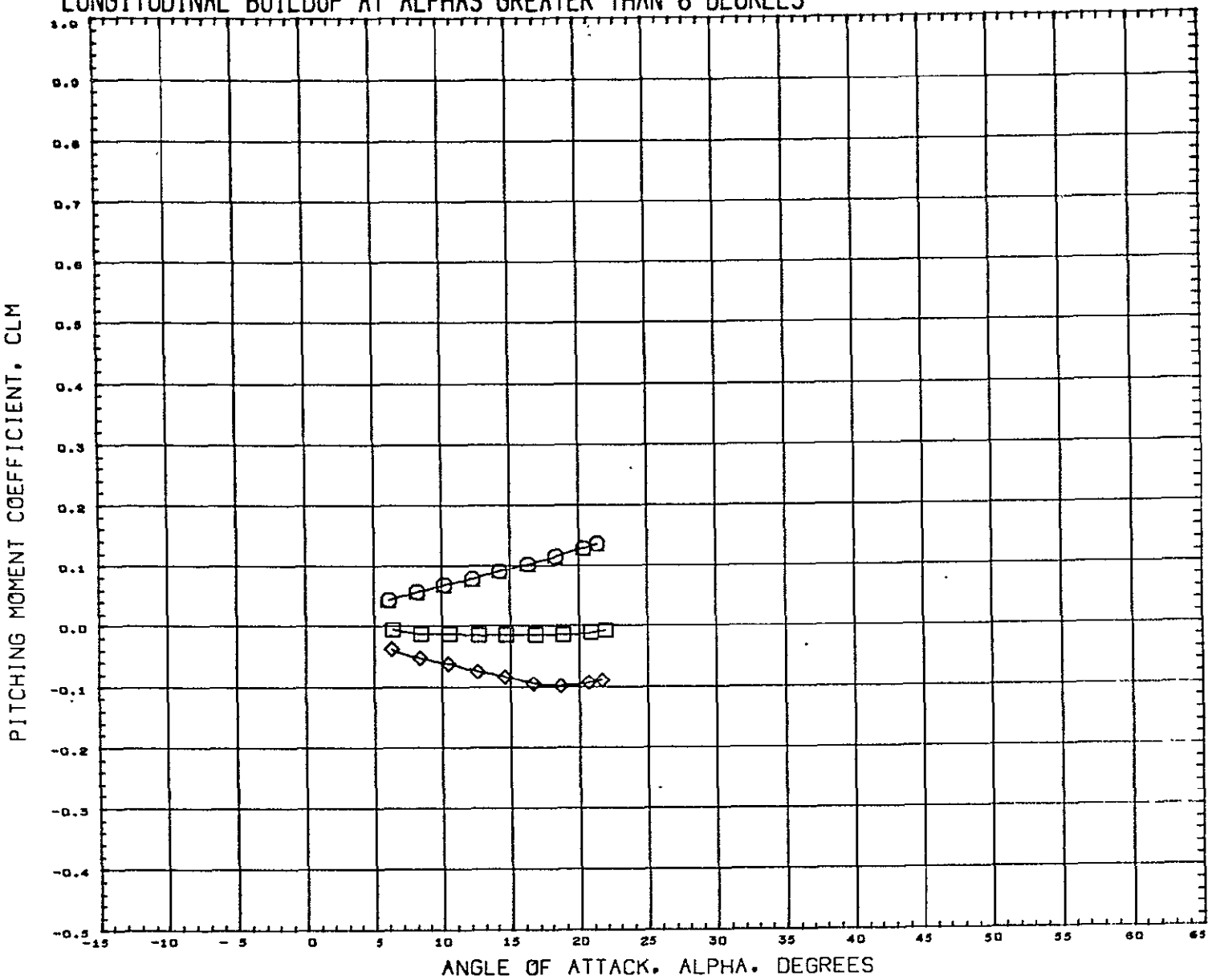


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)		HSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)		HSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)		HSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)		HSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 4.960

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES



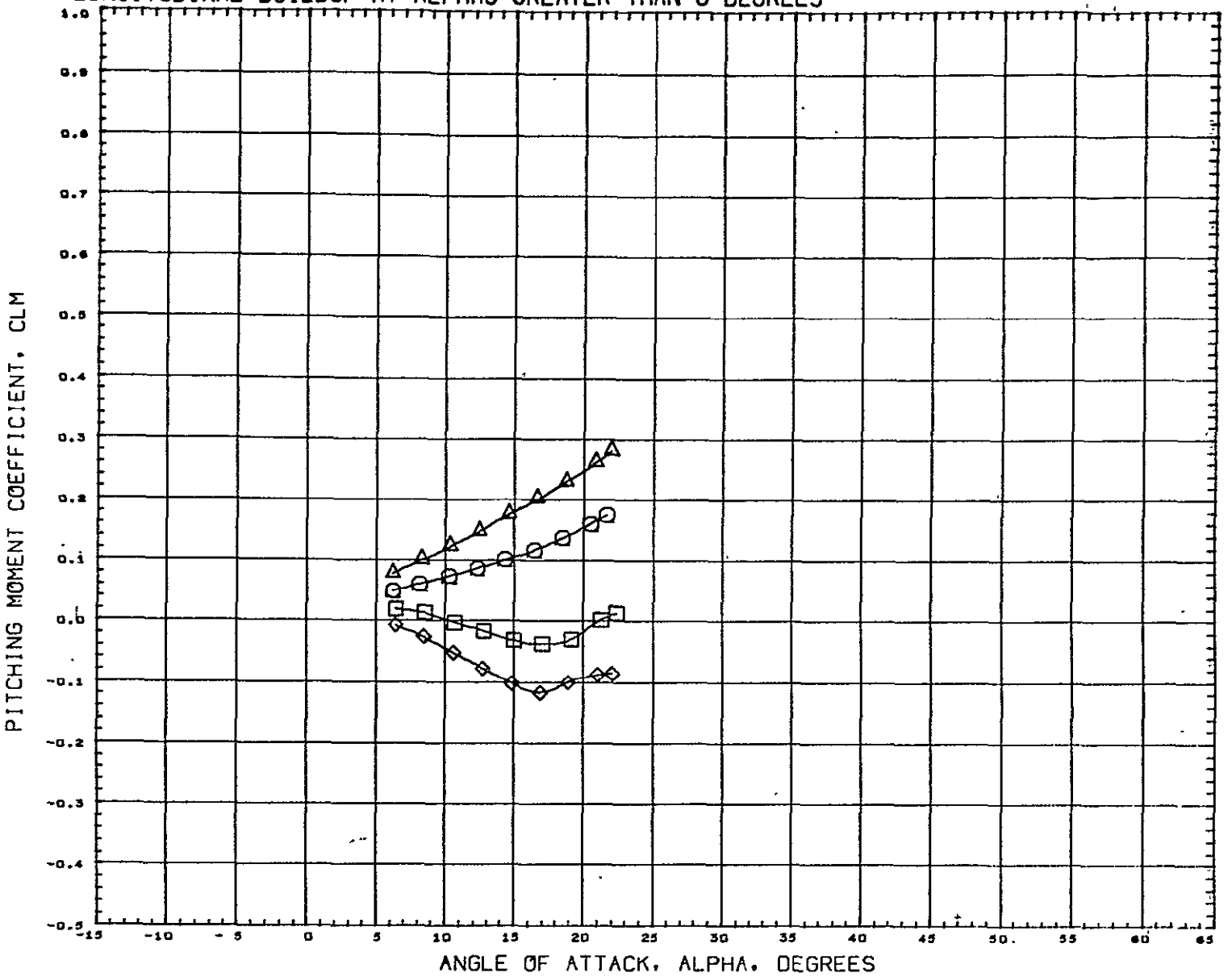
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)		MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)		DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)		MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

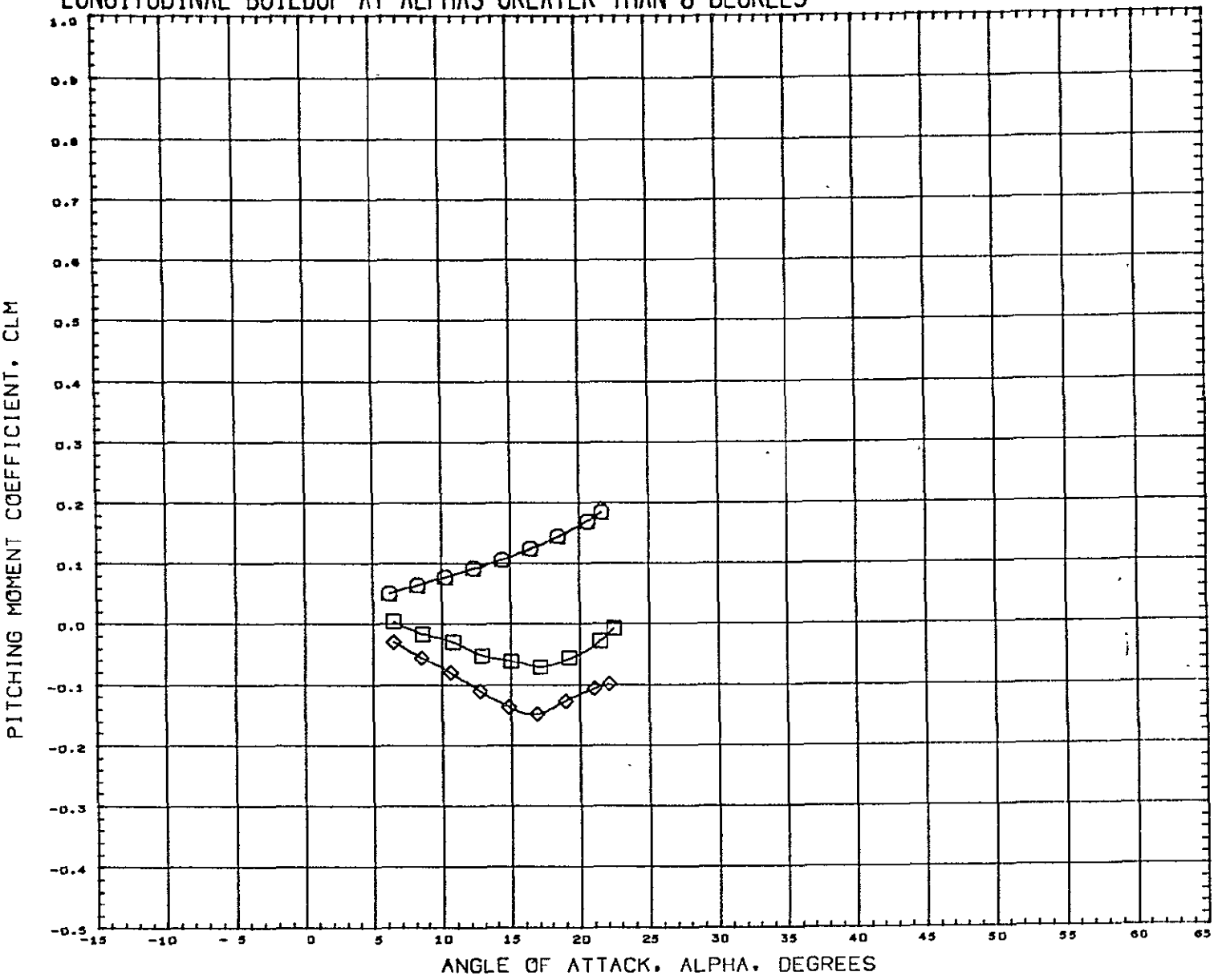


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.907

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES



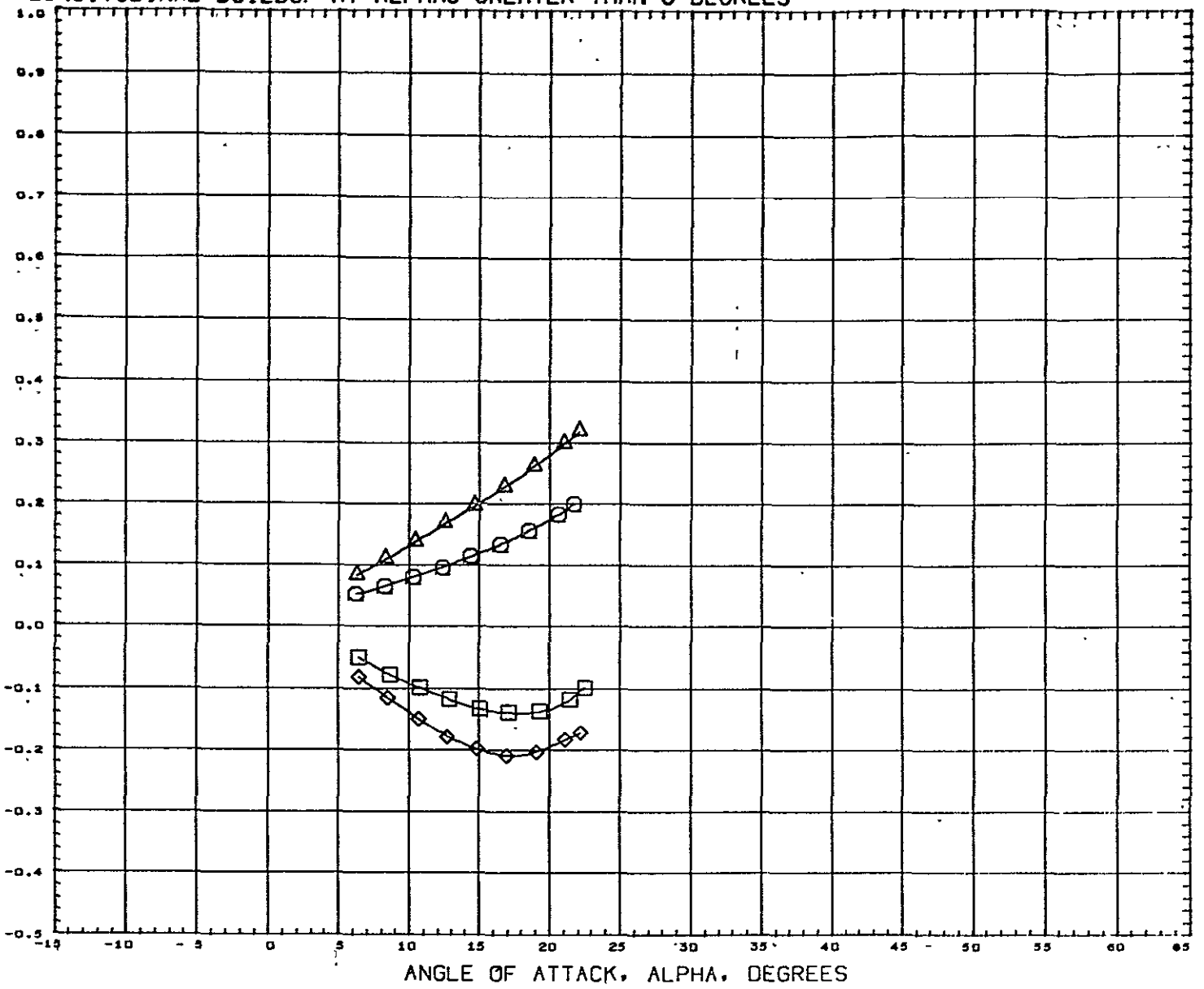
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0033	

MACH 0.957

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

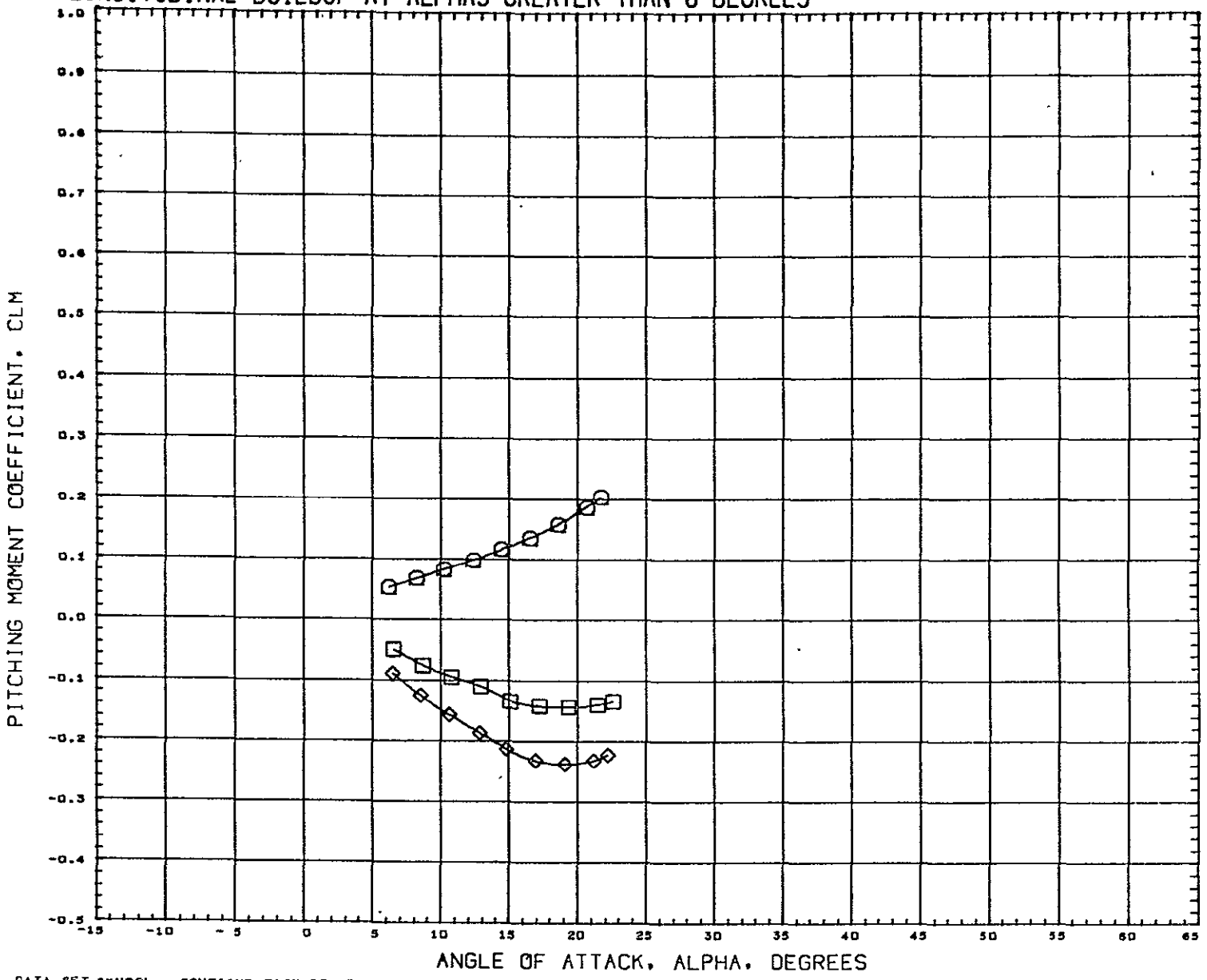


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C26004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C26013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C26005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C26001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.005

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

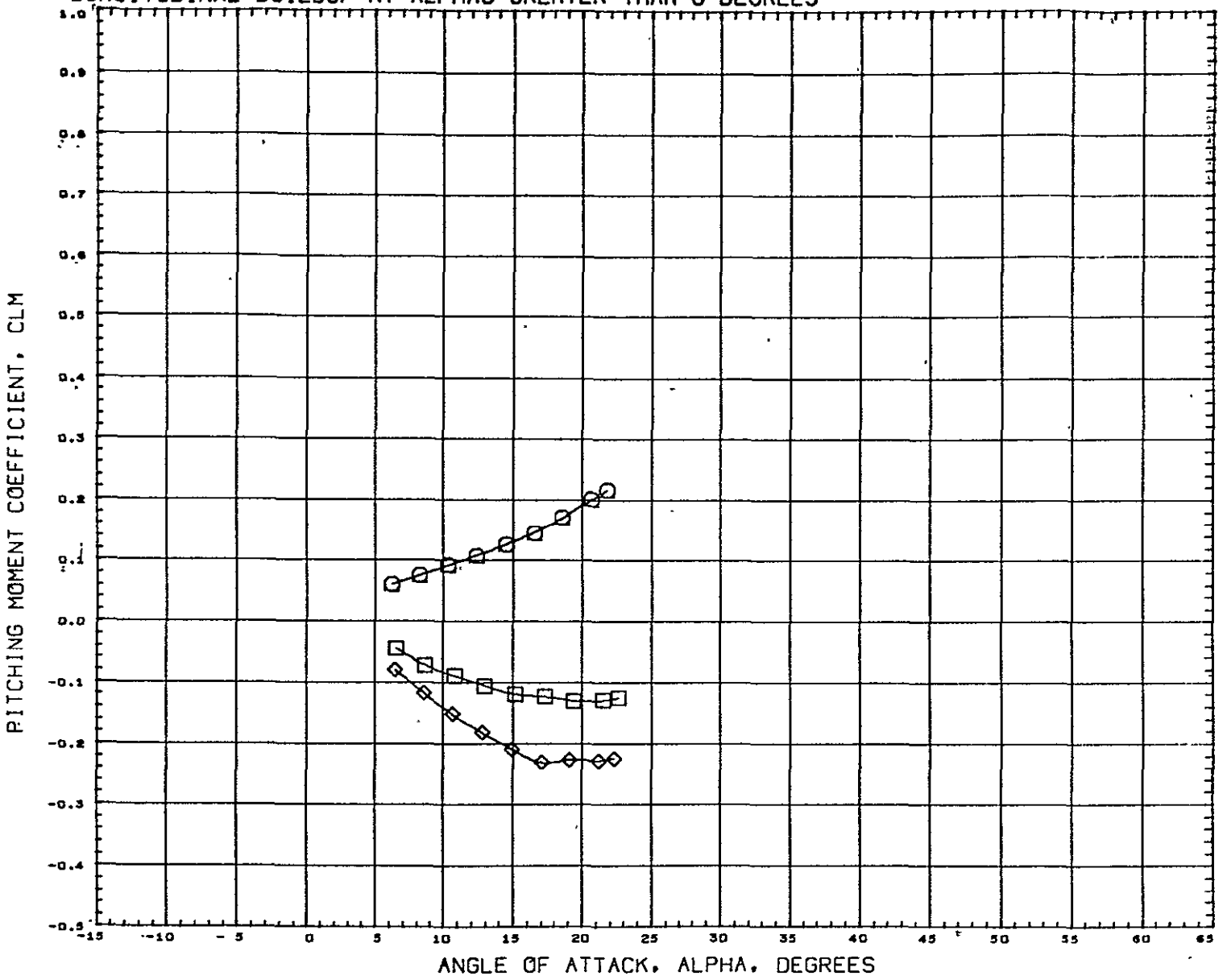


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C26004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C26013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C26005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C26001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 1.054

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

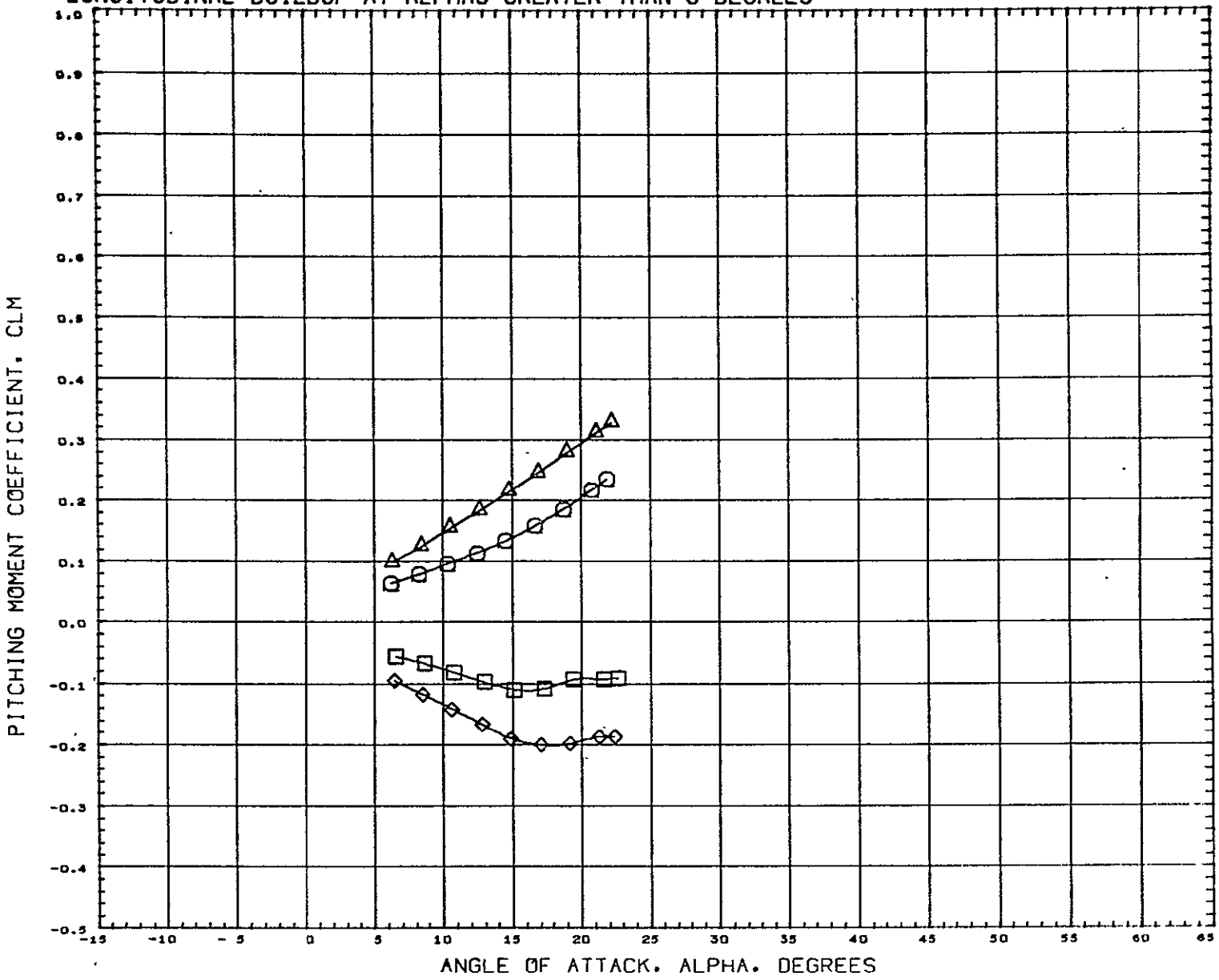


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	HSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)	◇	HSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	HSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 1.100

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

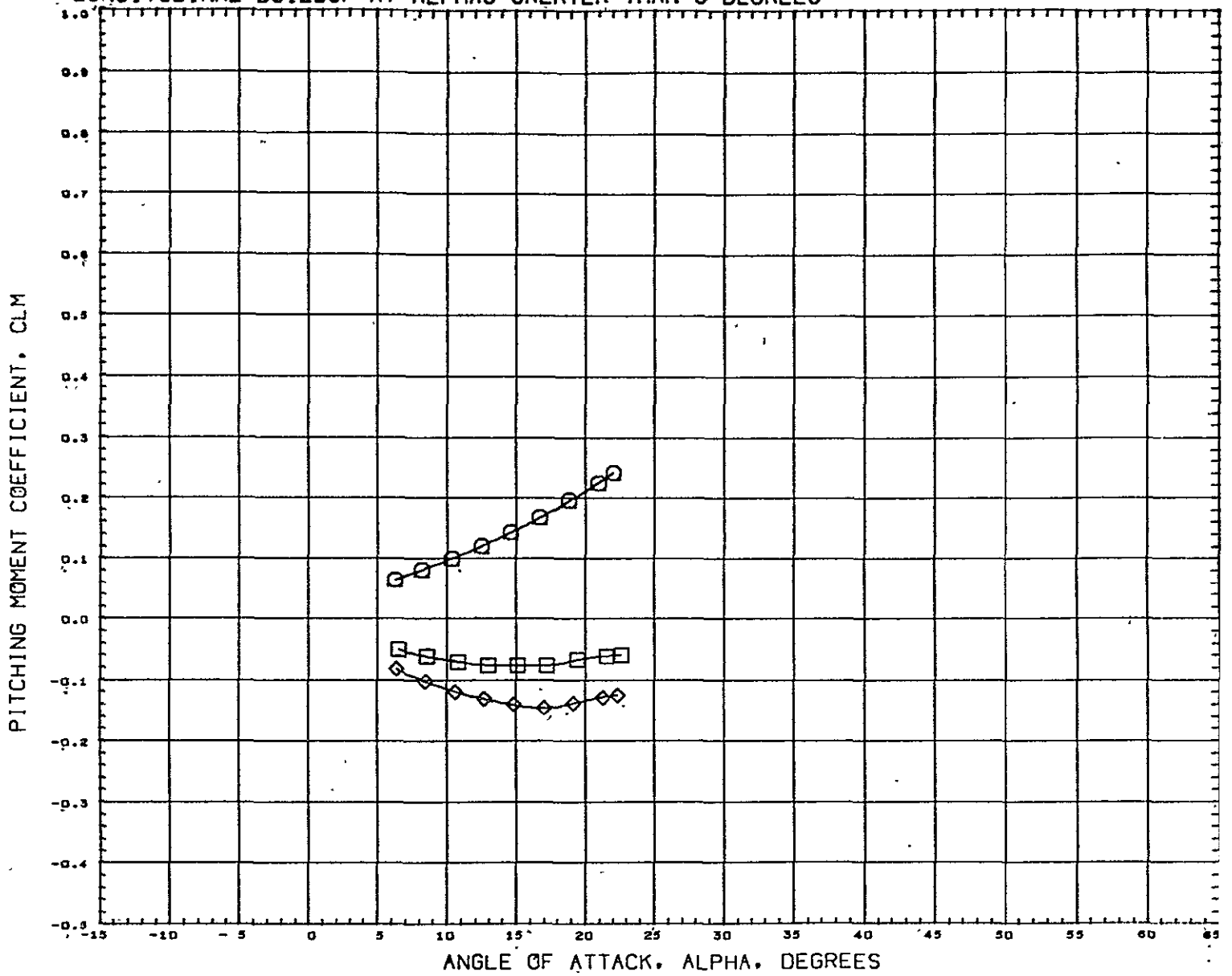


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 1.198

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

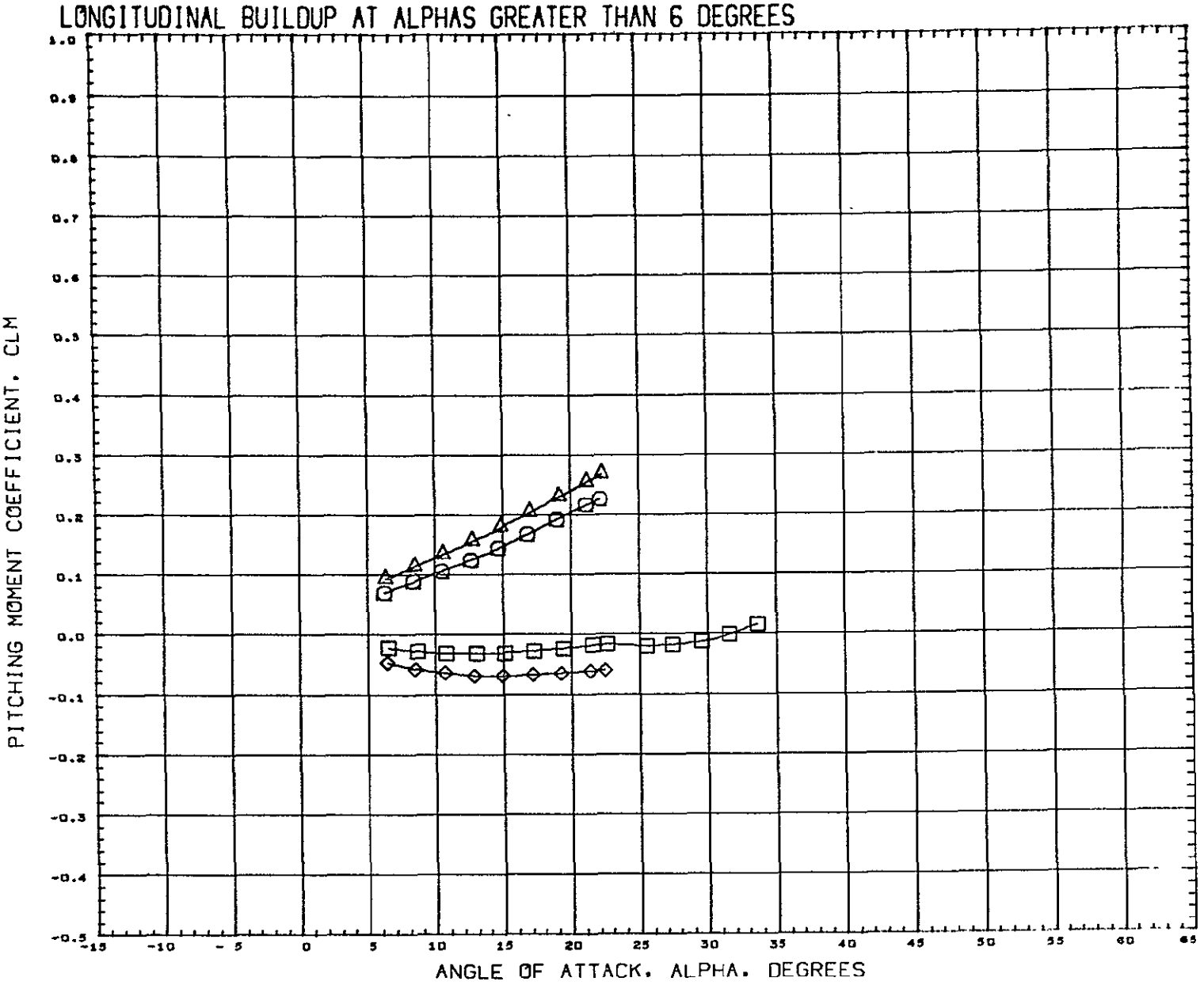


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C26004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C26013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C26005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C26001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 1.463

REFERENCE INFORMATION		
SREF.	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

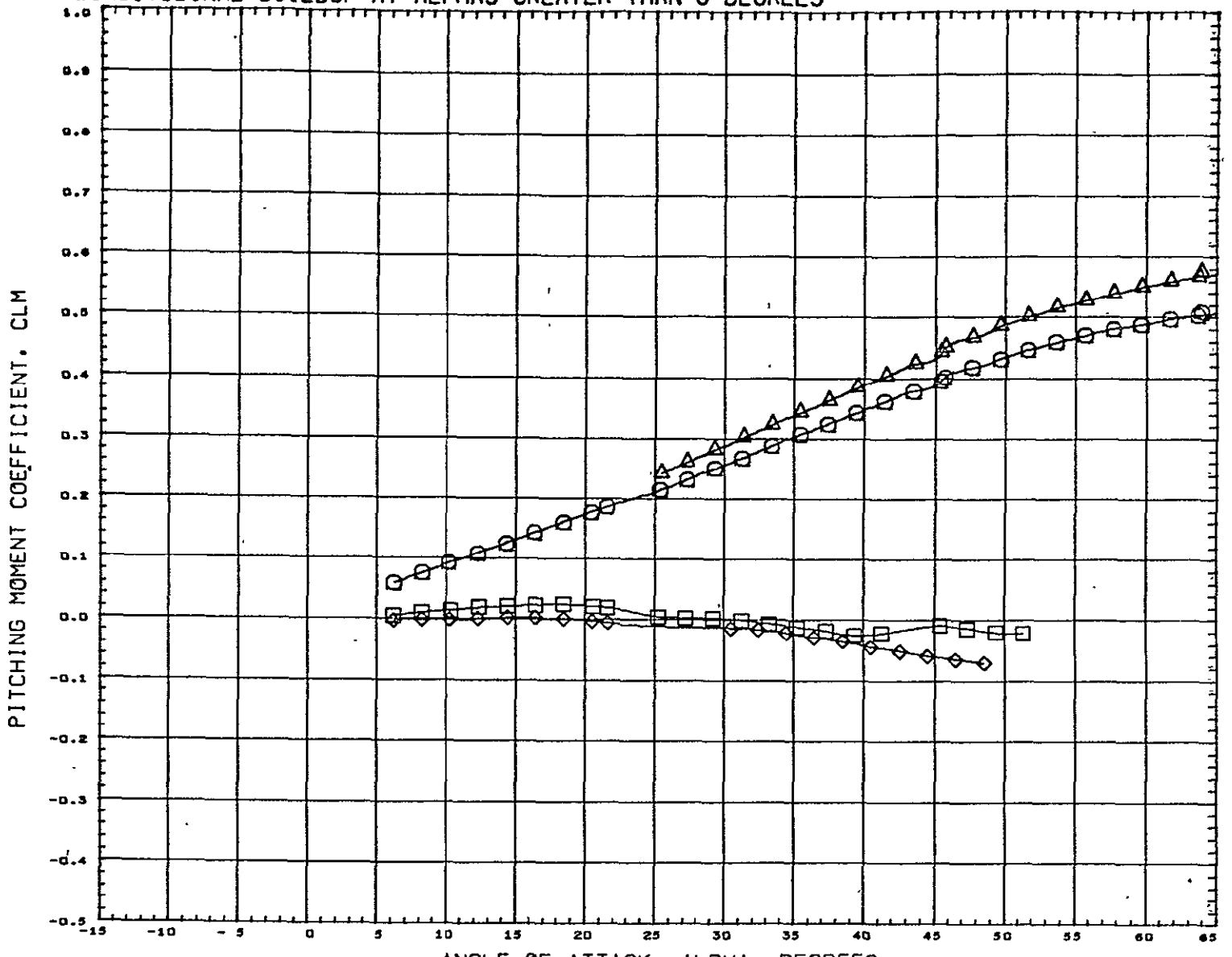


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.966

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

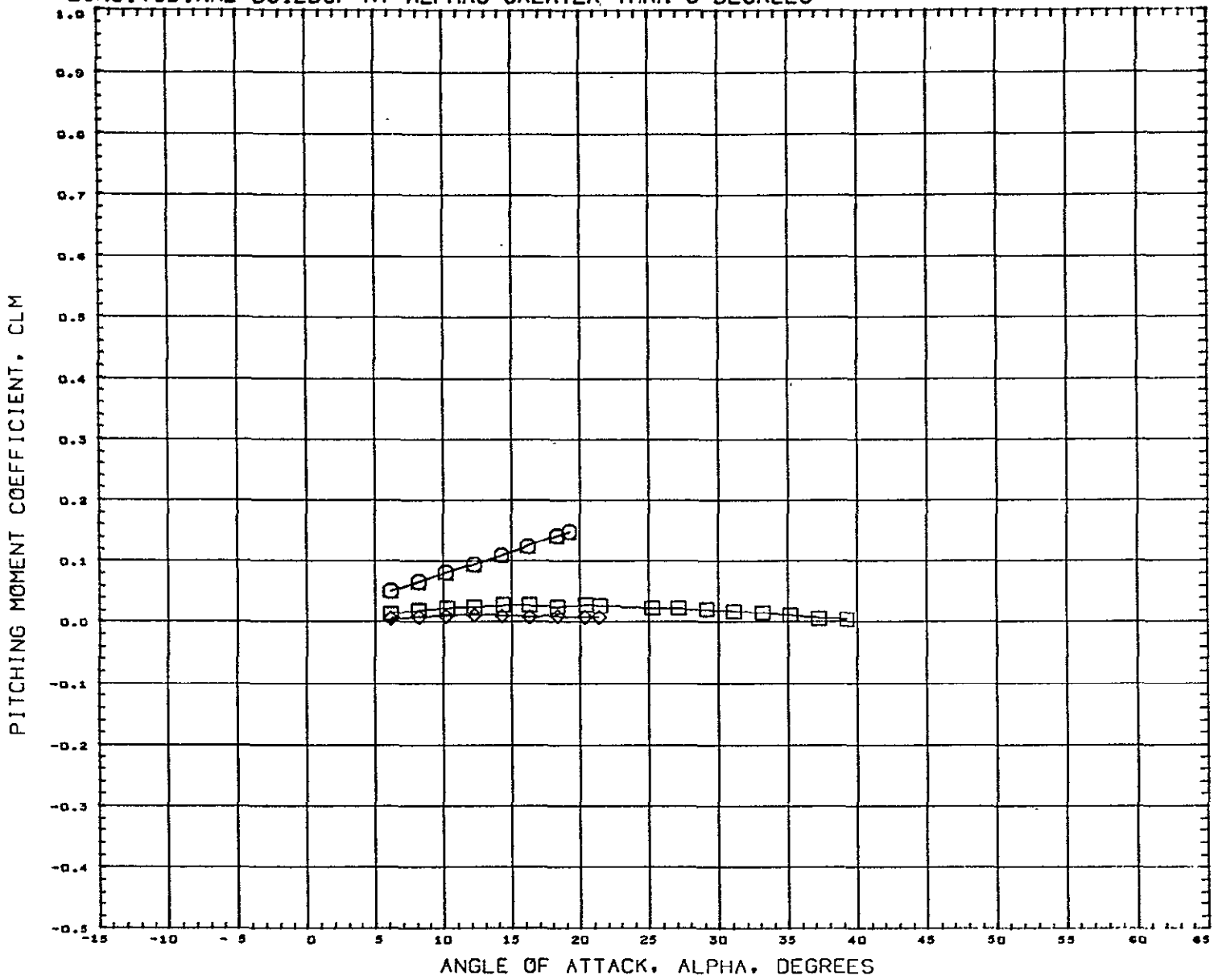


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(CZB004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(CZB013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(CZB005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(CZB001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0930	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

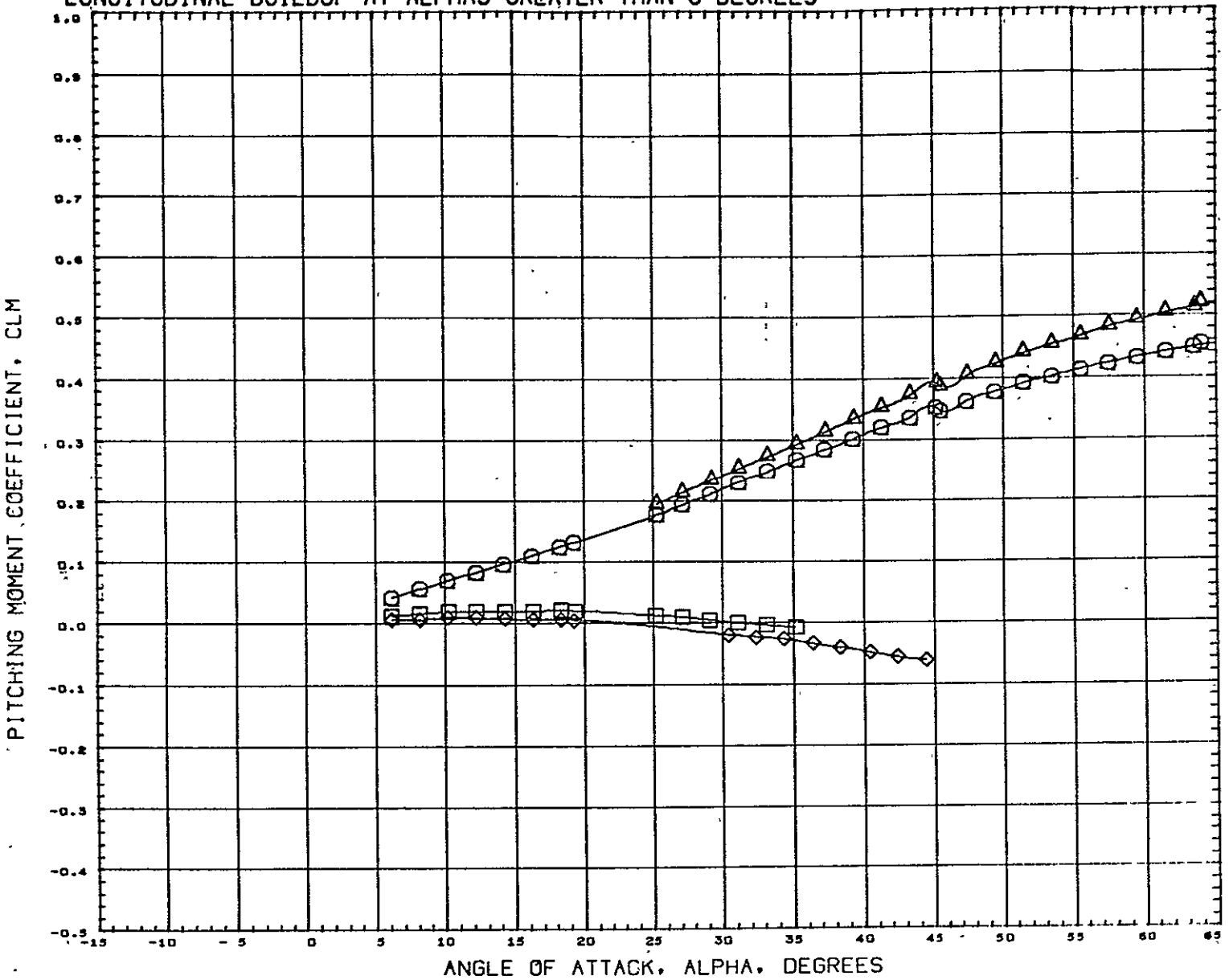


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)		MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)		DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)		MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0055	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

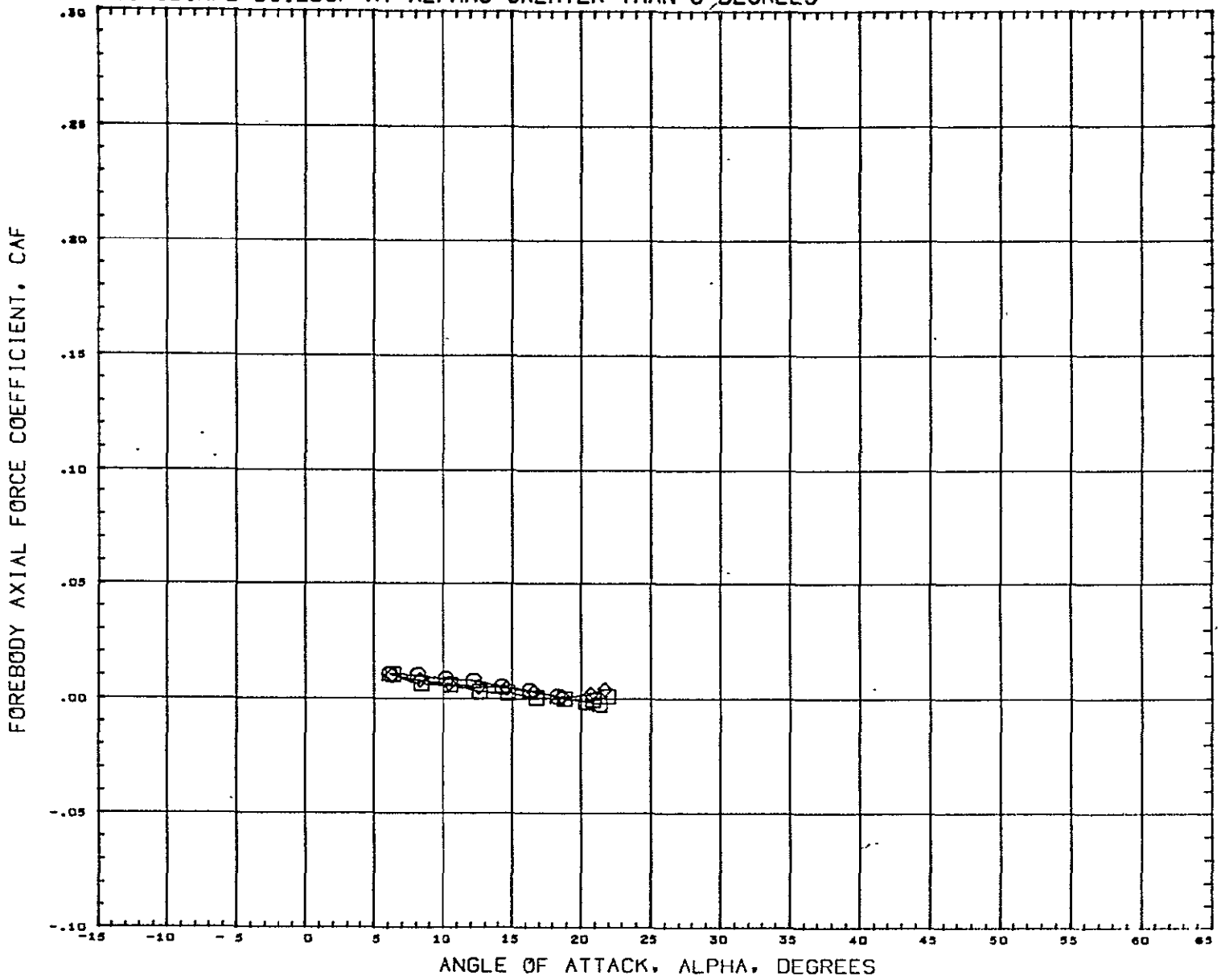


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

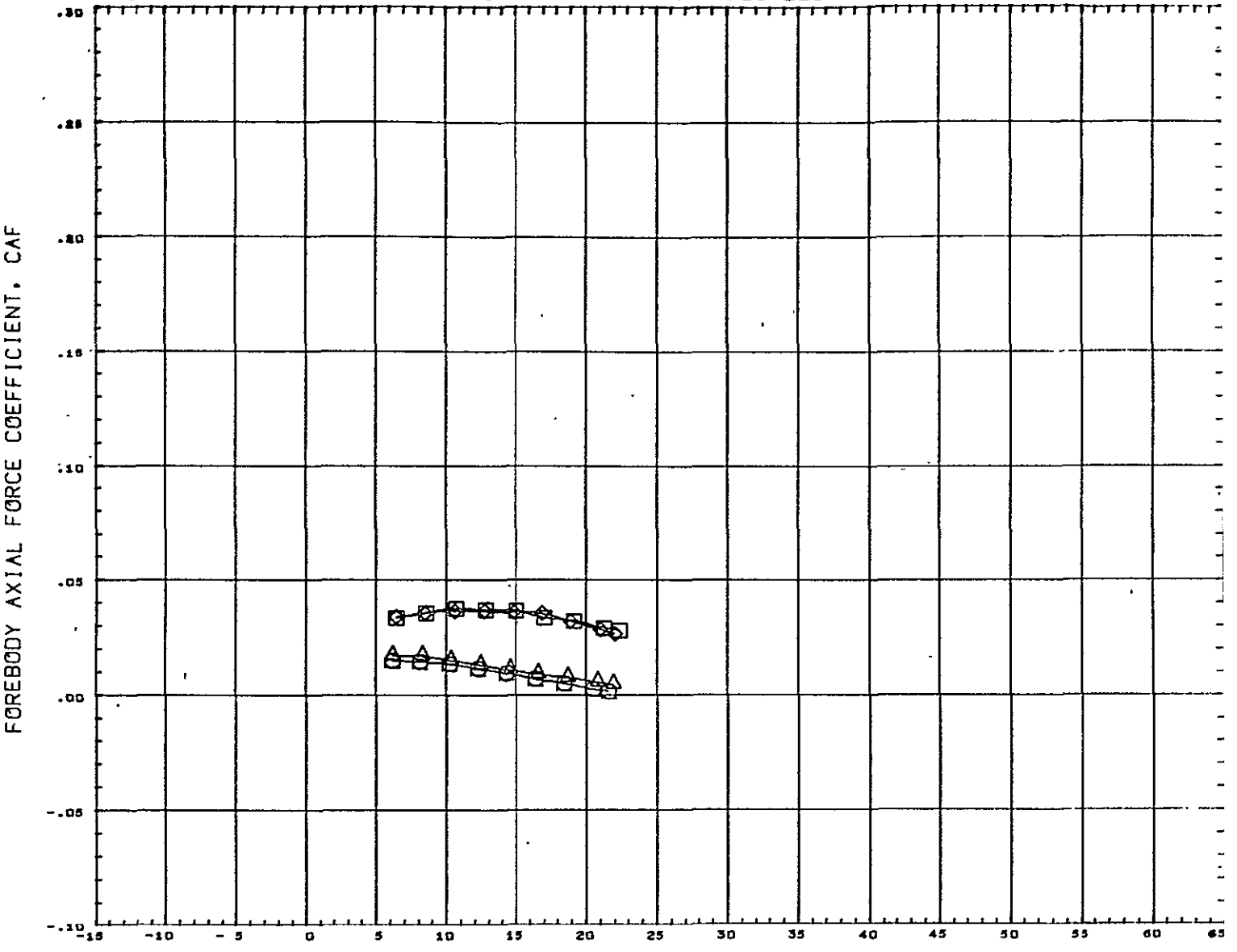


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)		MSFC481 GD/C(BOOSTER)B19V7				0.000
(C26013)		DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)		MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

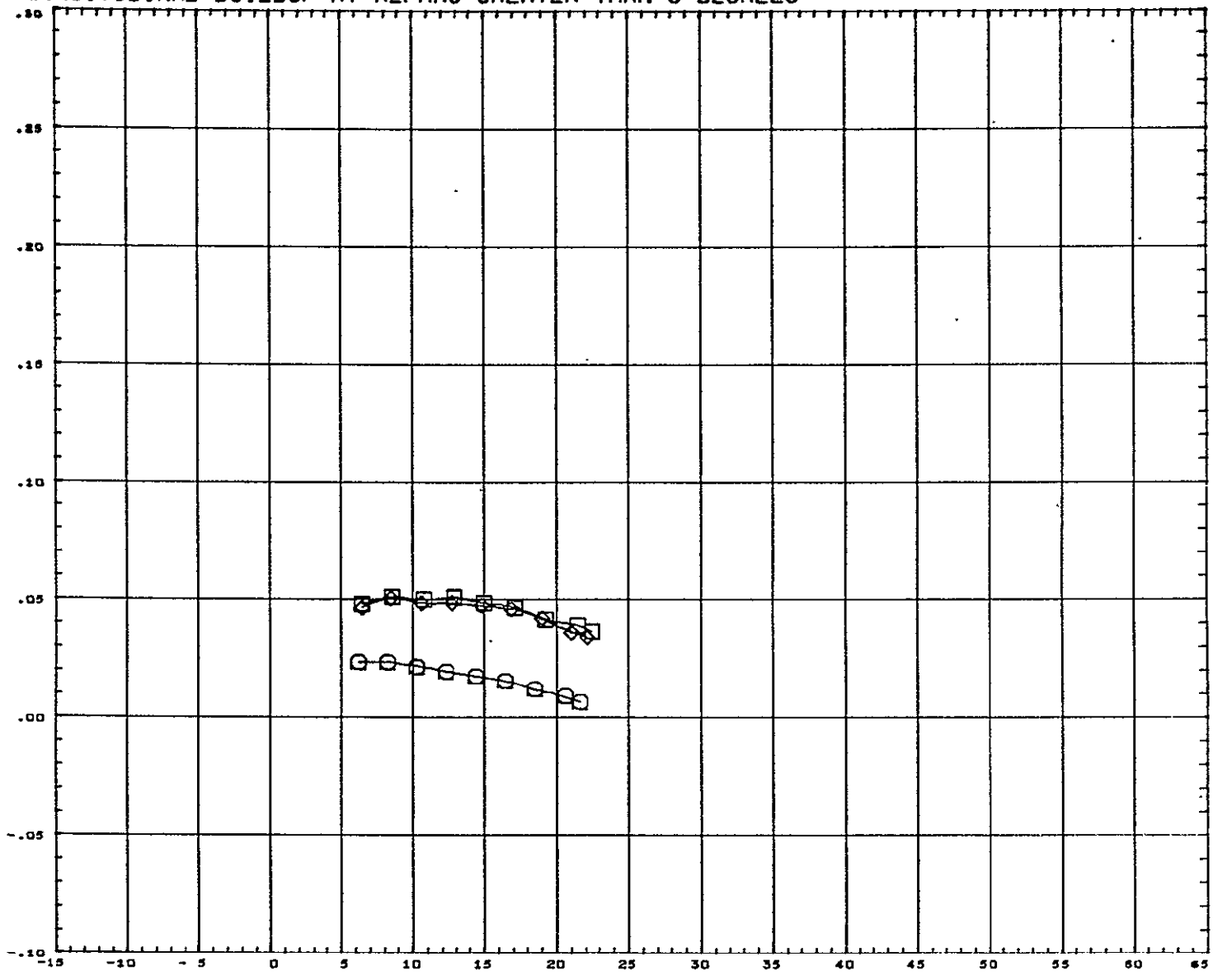


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.907

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

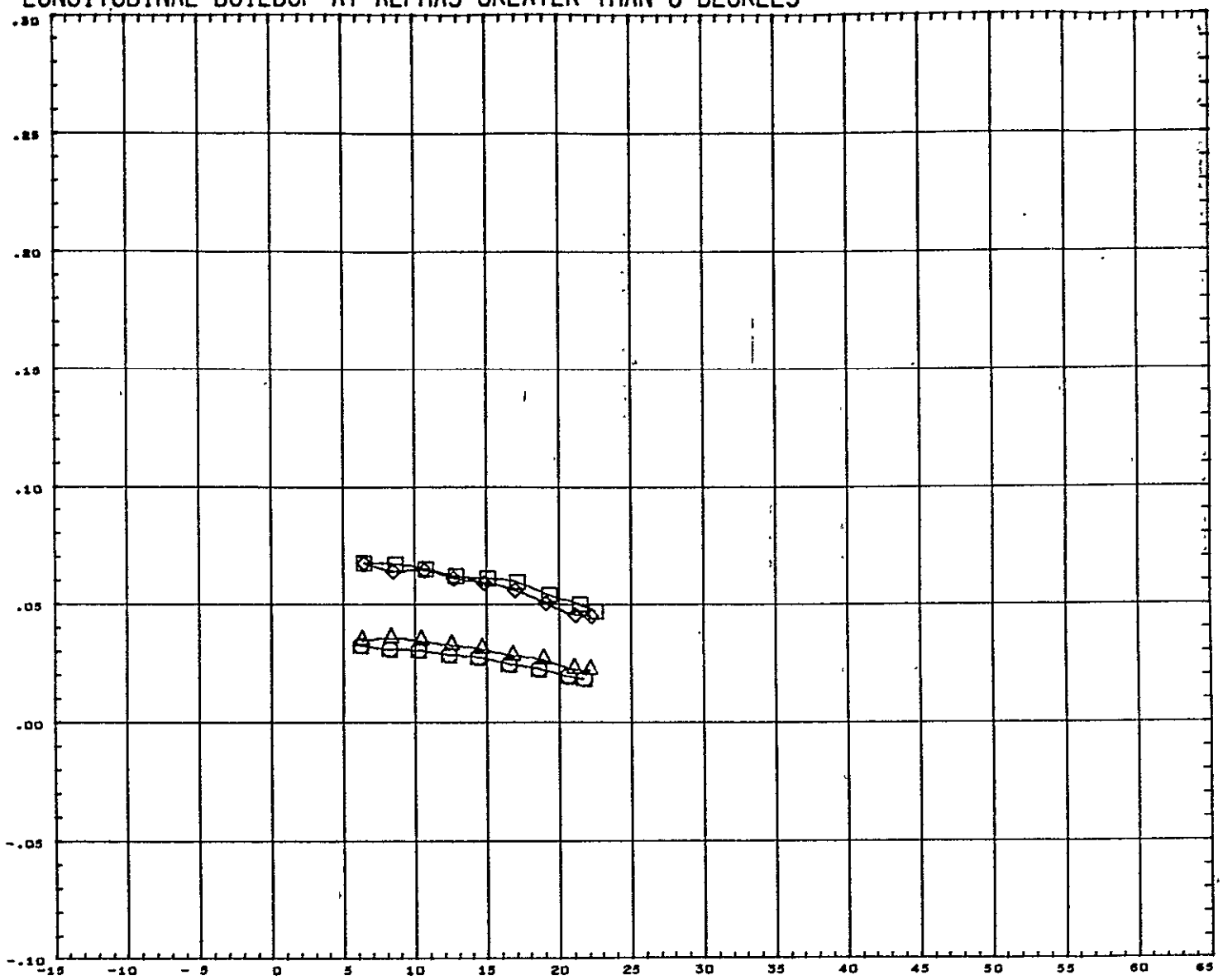


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)		MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)		DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)		MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.957

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

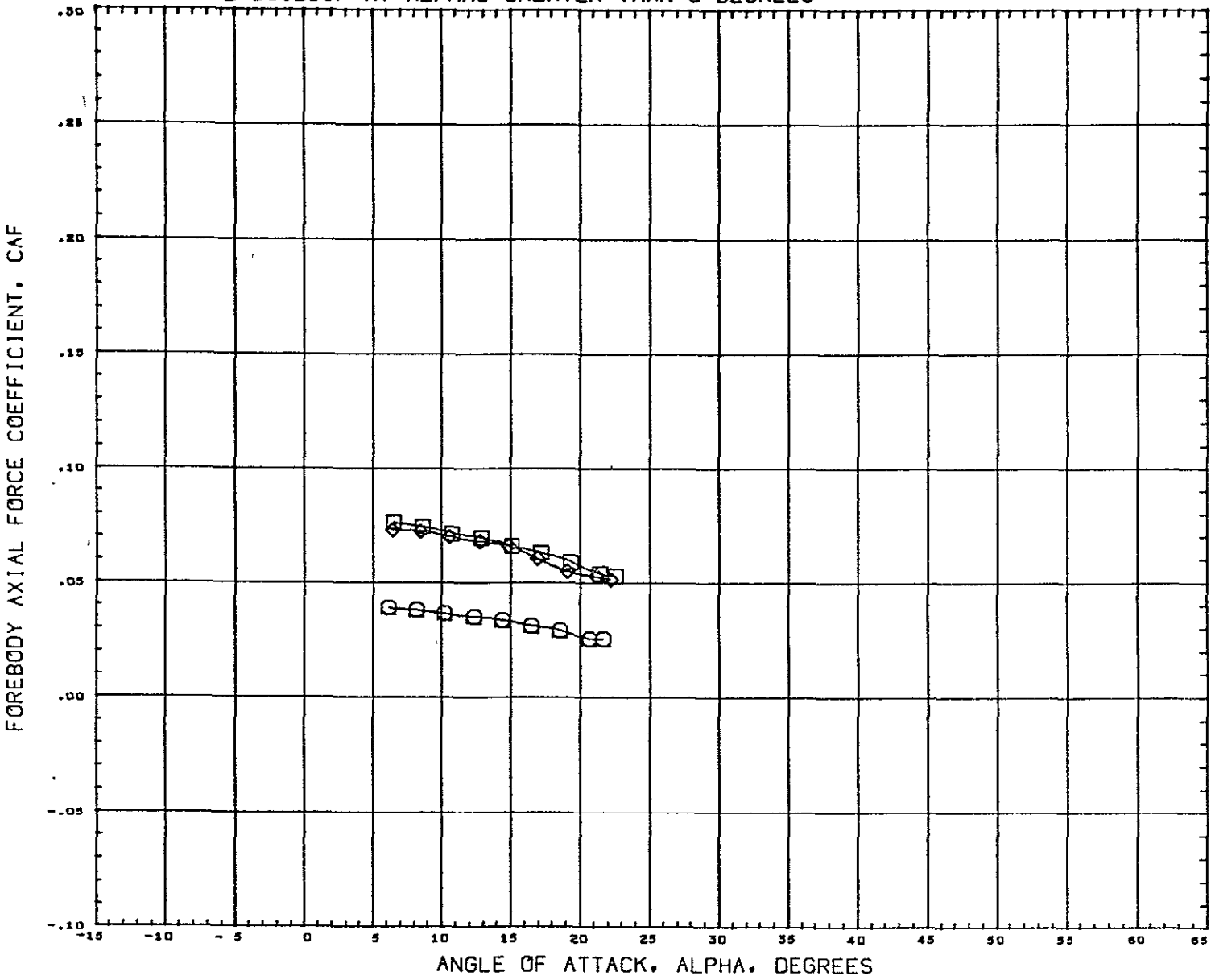


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC461 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	MSFC461 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)	◇	MSFC461 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.005

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

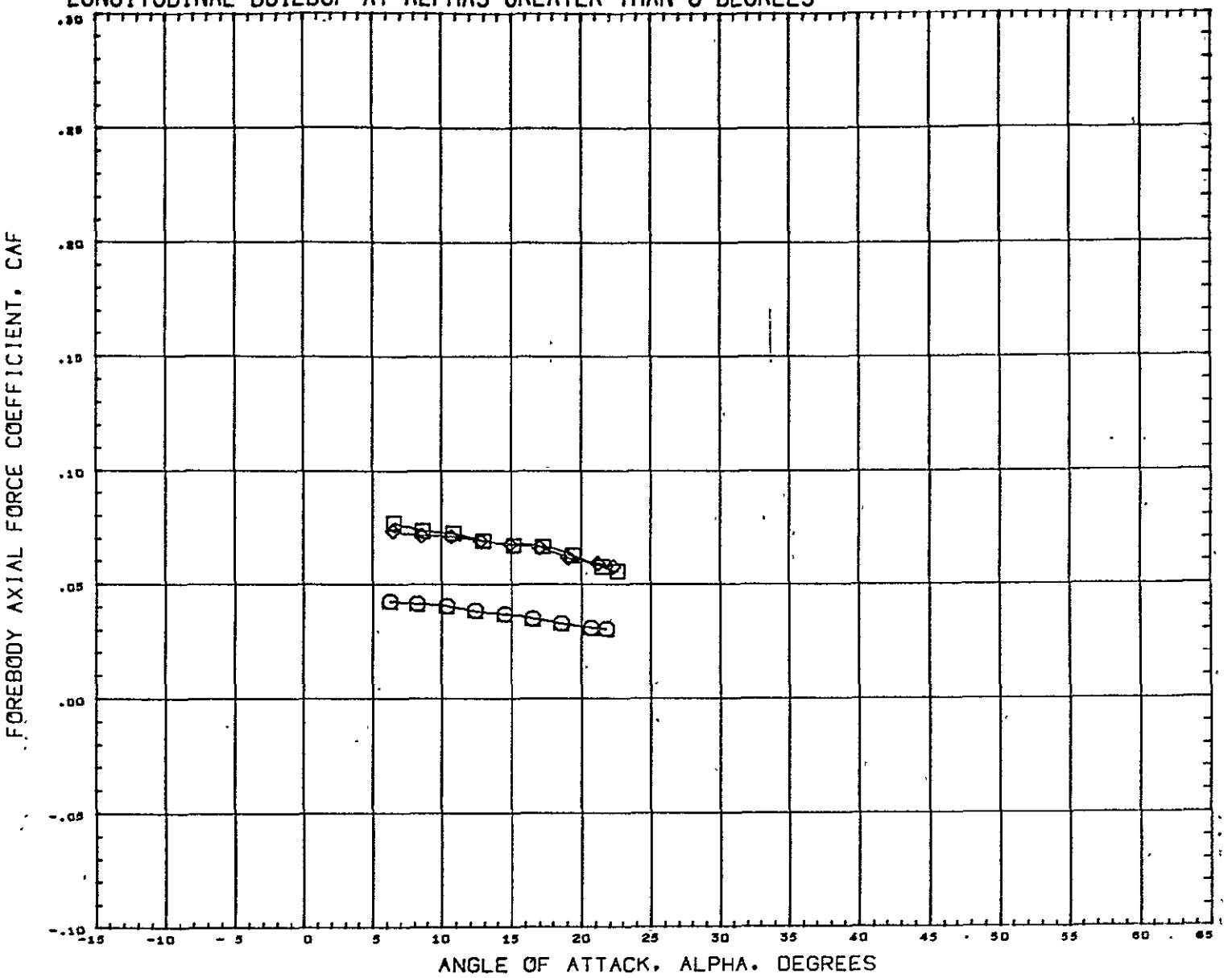


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C26004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C26013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C26005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C26001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.054

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

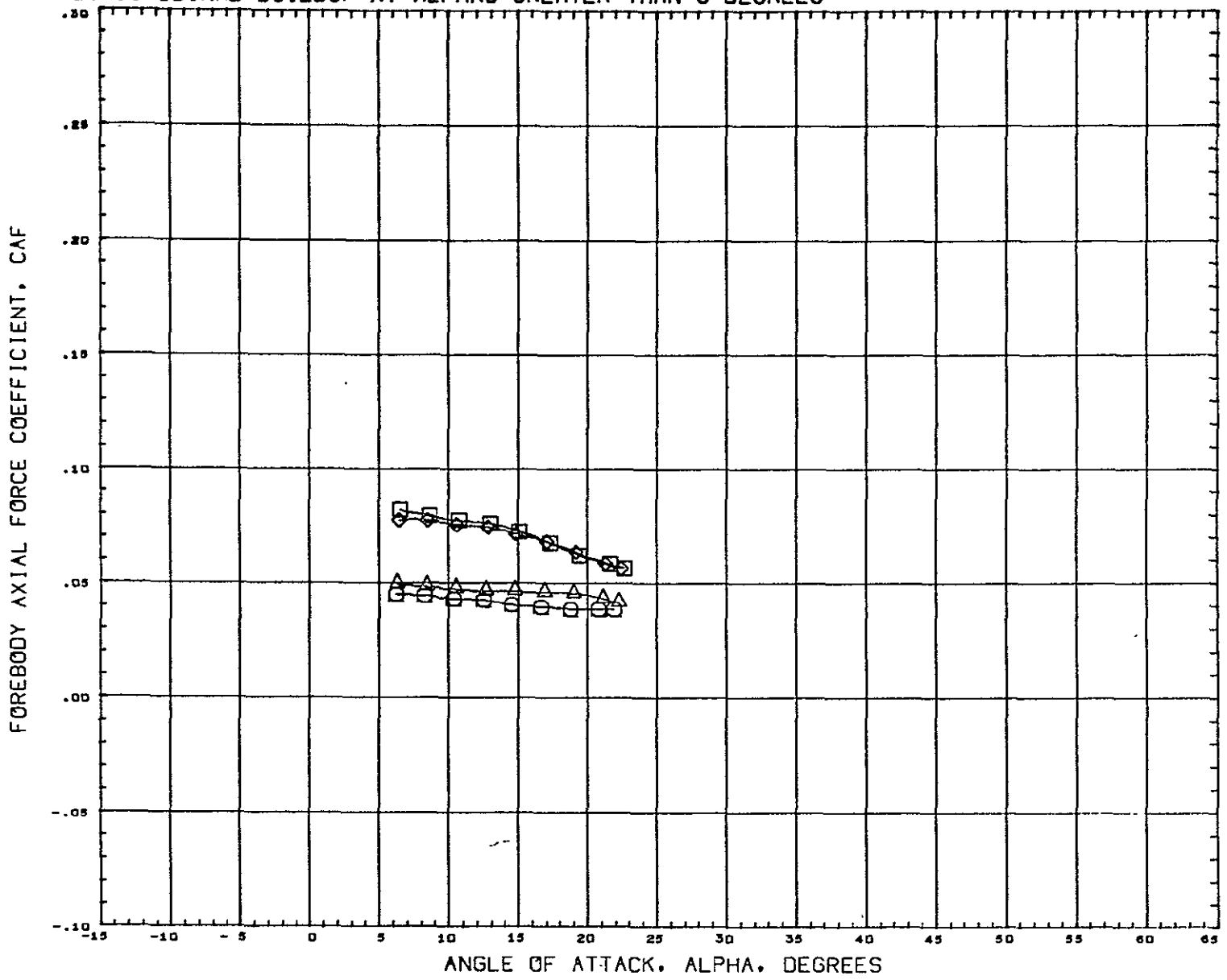


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(CZ8004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(CZ8013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(CZ8005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(CZ8001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 1.100

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

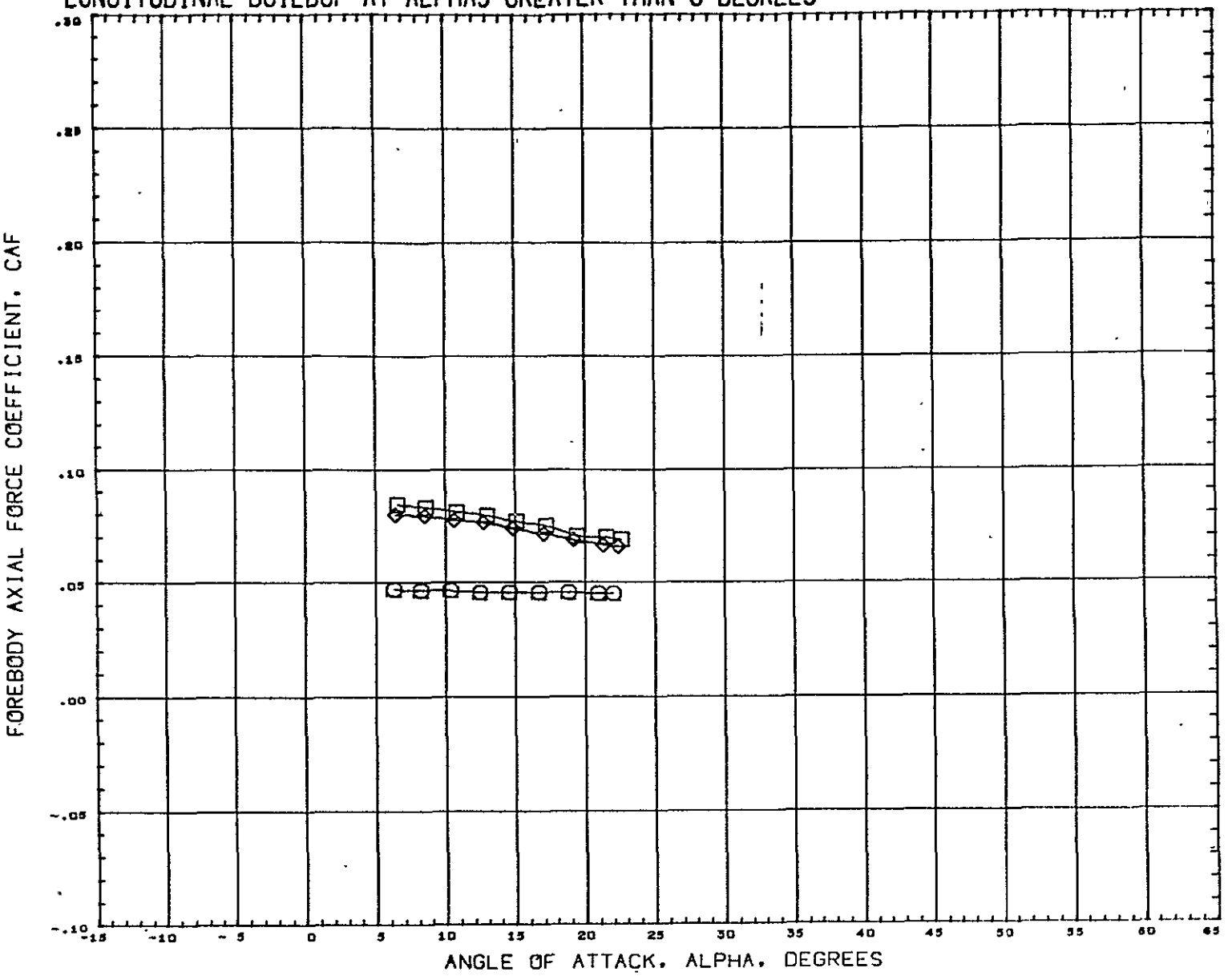


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C26004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C26013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C26005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C26001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.196

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

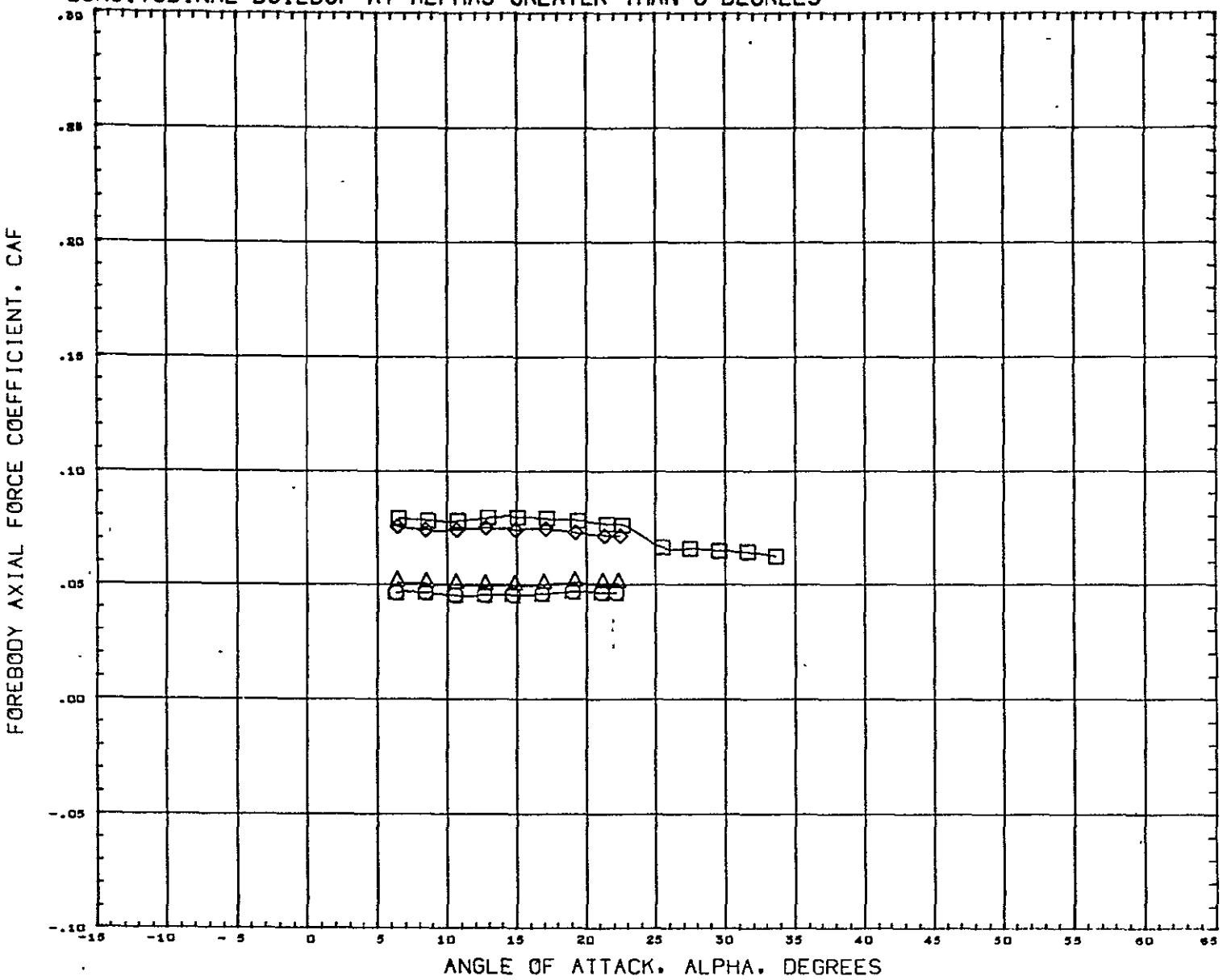


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)		MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)		DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)		MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.463

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

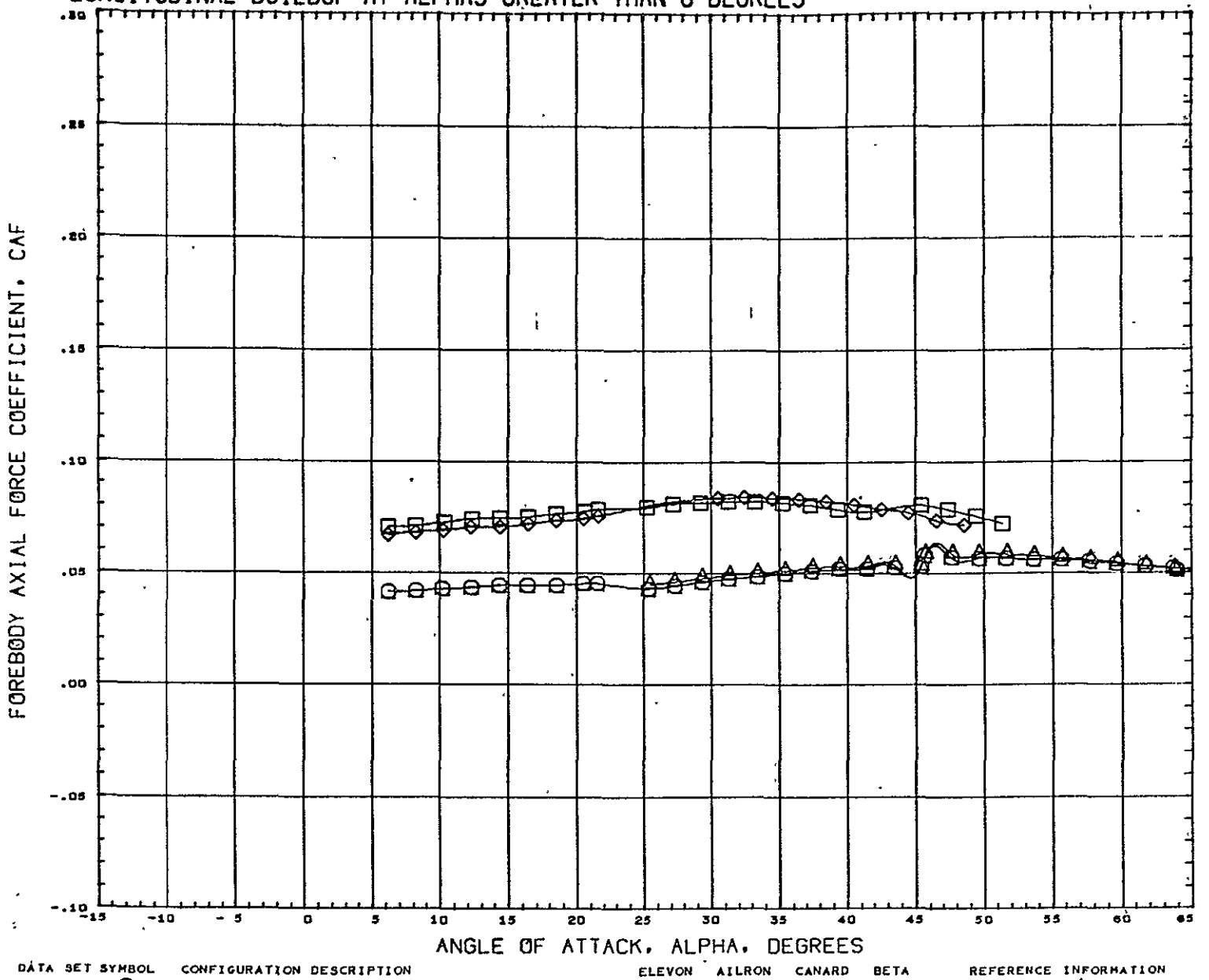


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)		MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)		MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)		MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.966

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

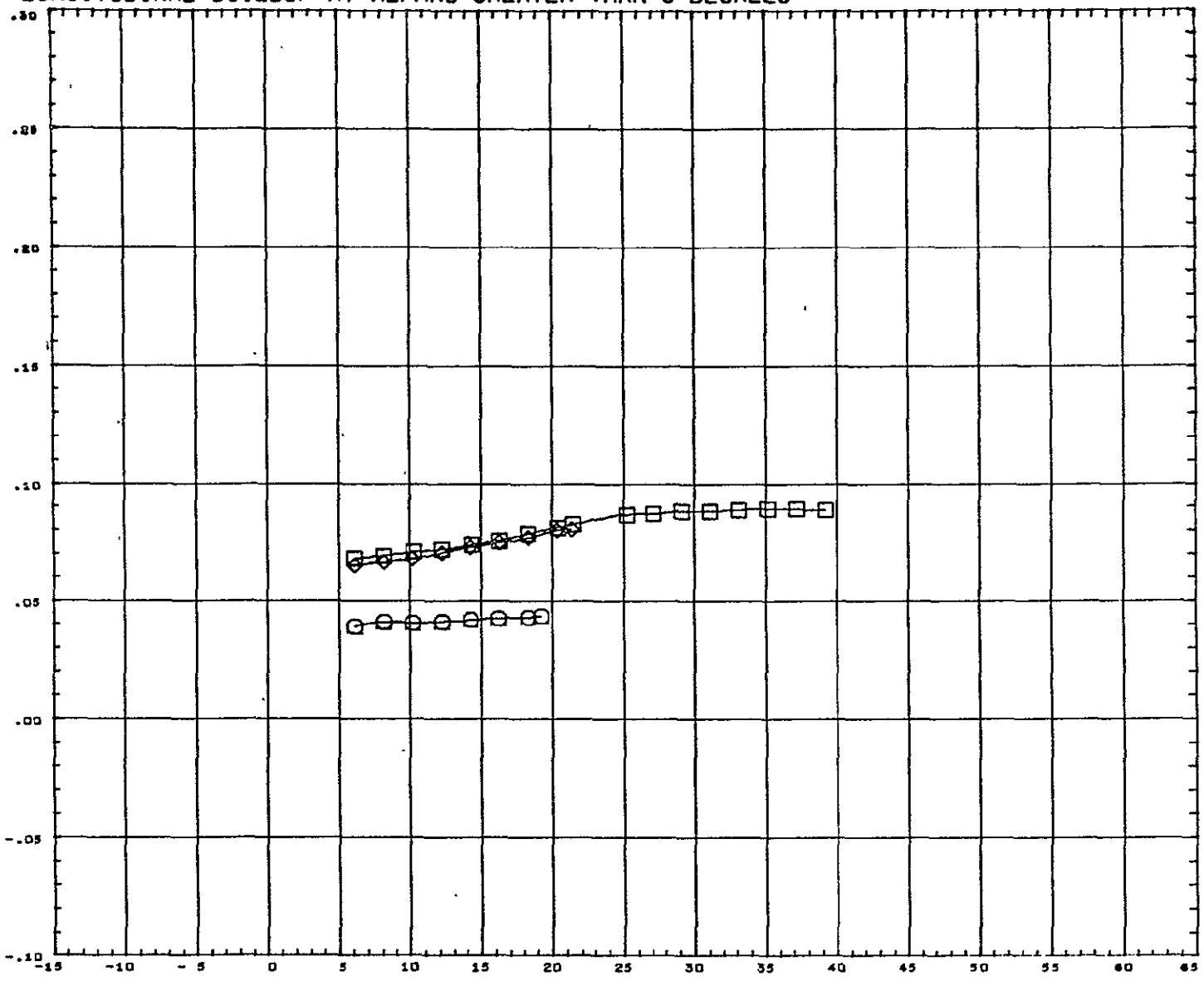


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC461 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	MSFC461 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)	◇	MSFC461 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

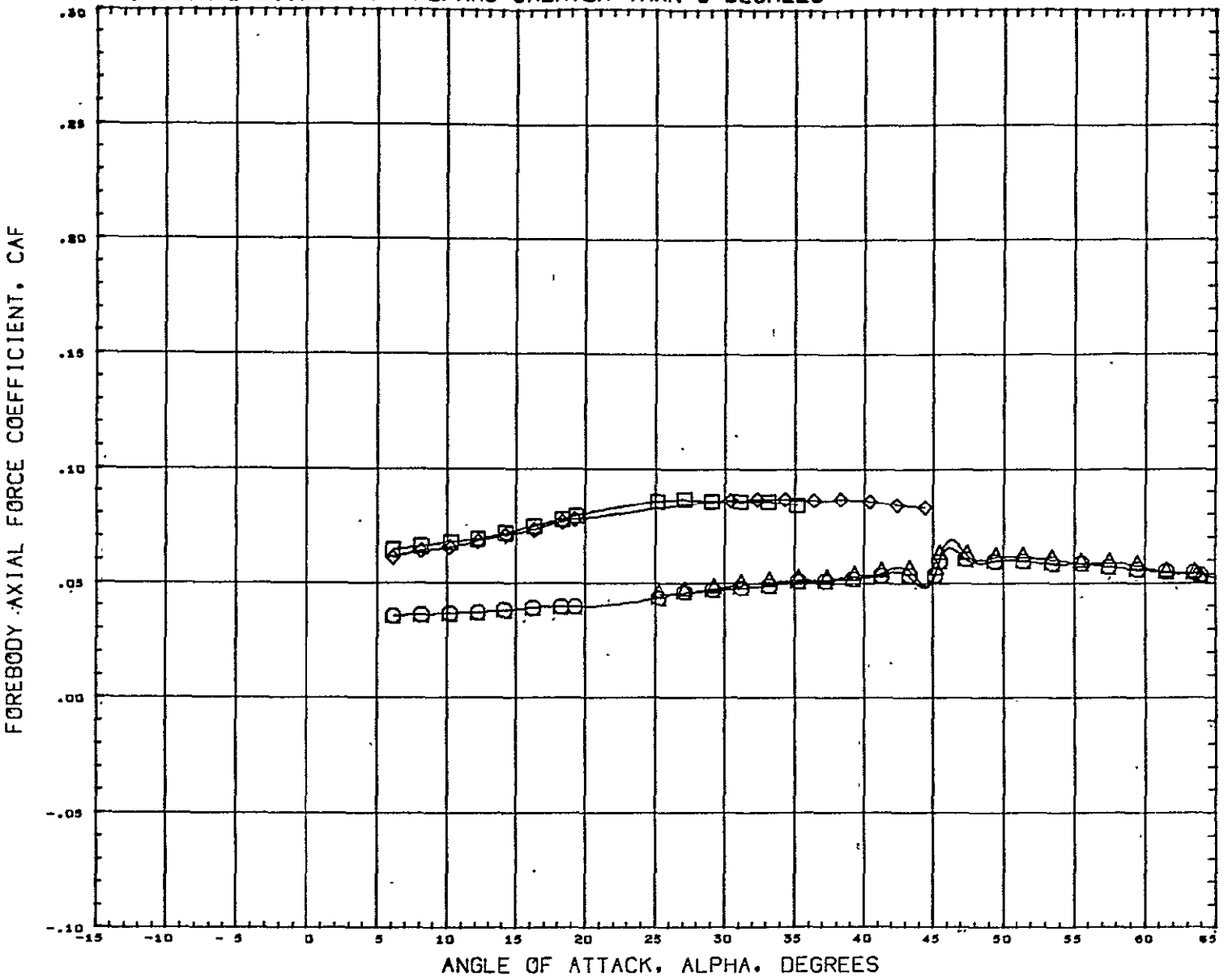


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT ALPHAS GREATER THAN 6 DEGREES

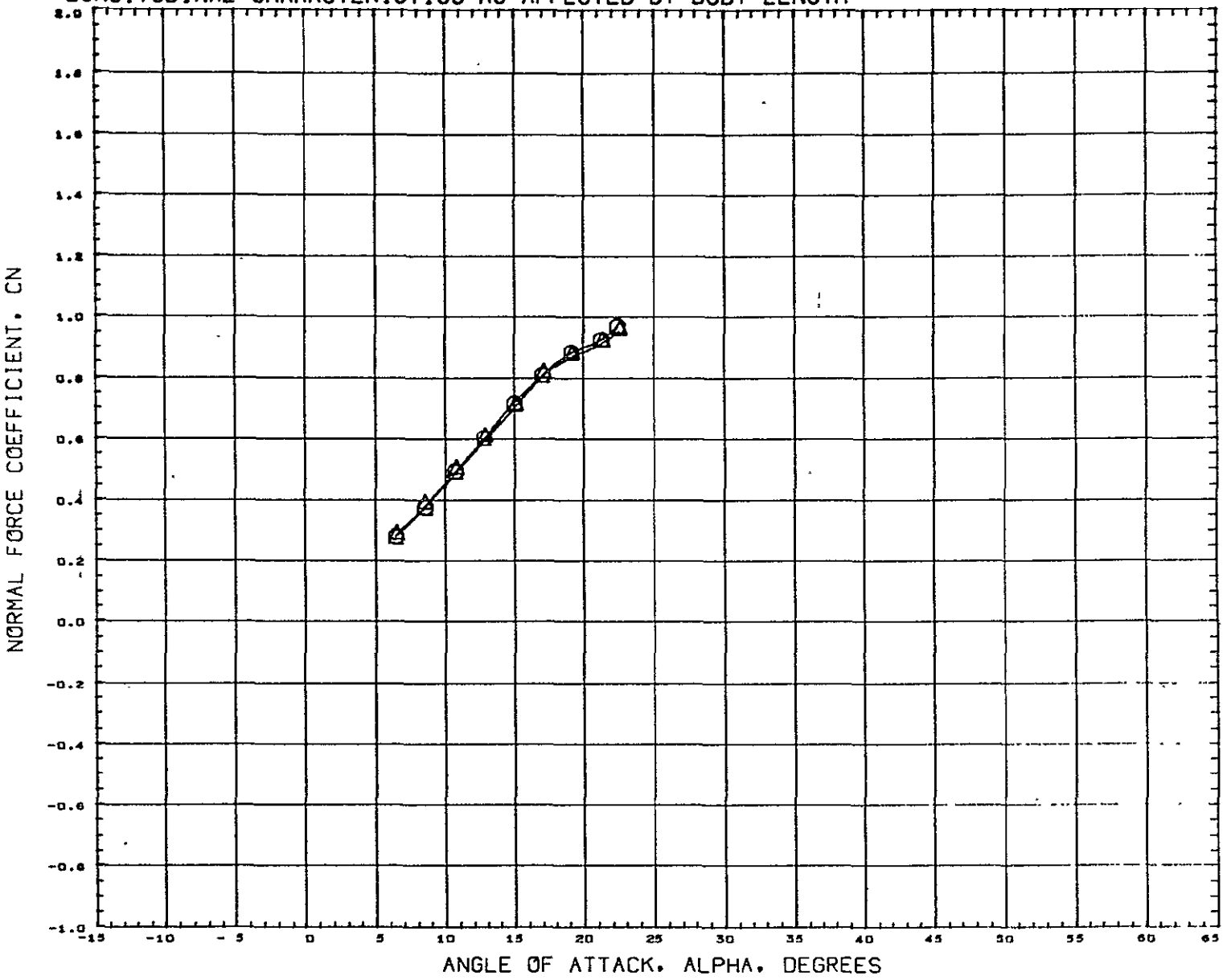


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	CANARD	BETA
(C28004)	○	MSFC481 GD/C(BOOSTER)B19V7				0.000
(C28013)	△	MSFC481 GD/C(BOOSTER)B19C4AV7			0.000	0.000
(C28005)	◇	MSFC481 GD/C(BOOSTER)B19W14V7	0.000	0.000		0.000
(C28001)	□	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

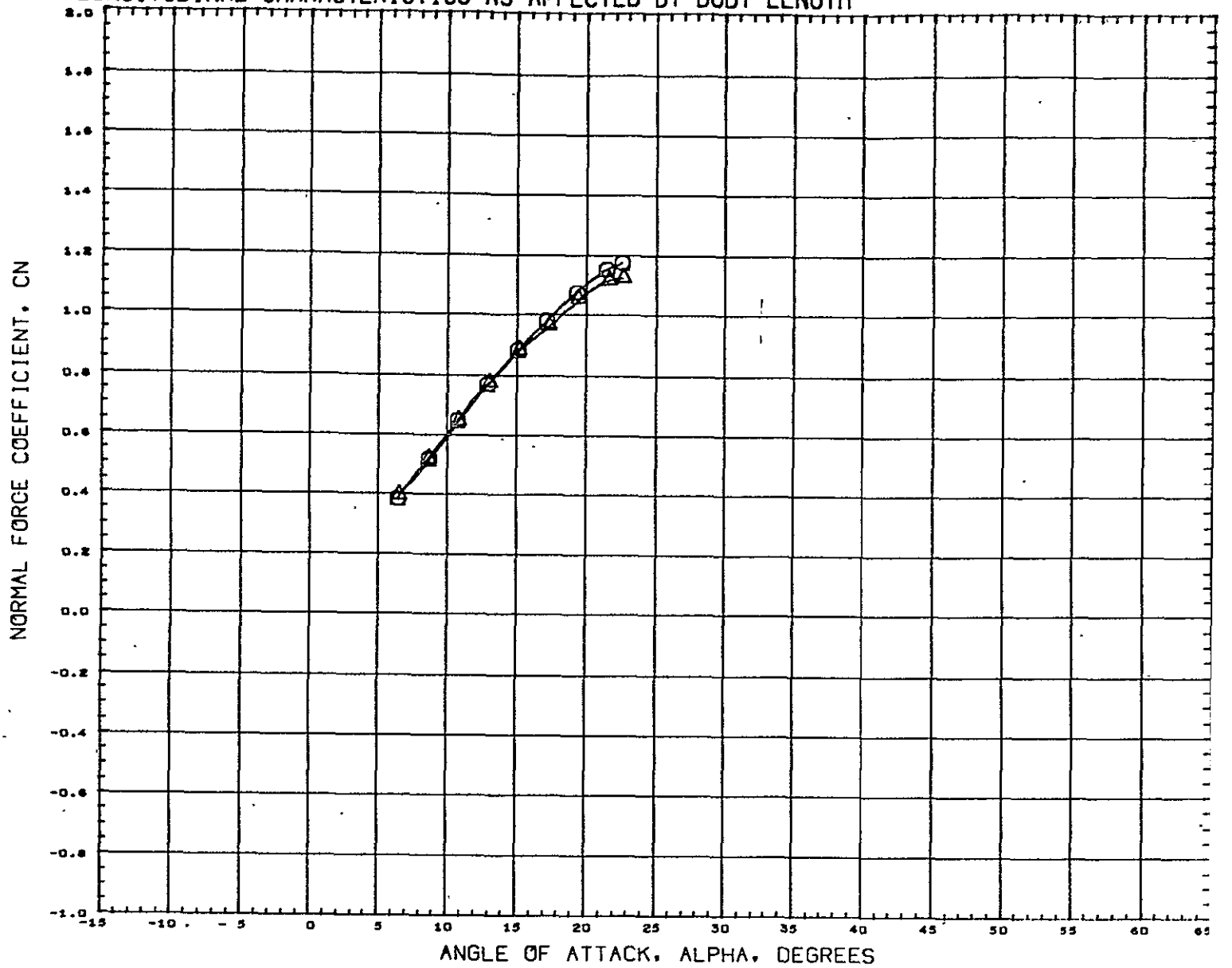


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(F28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(C28021)		MSFC461 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

MACH 0.900

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH



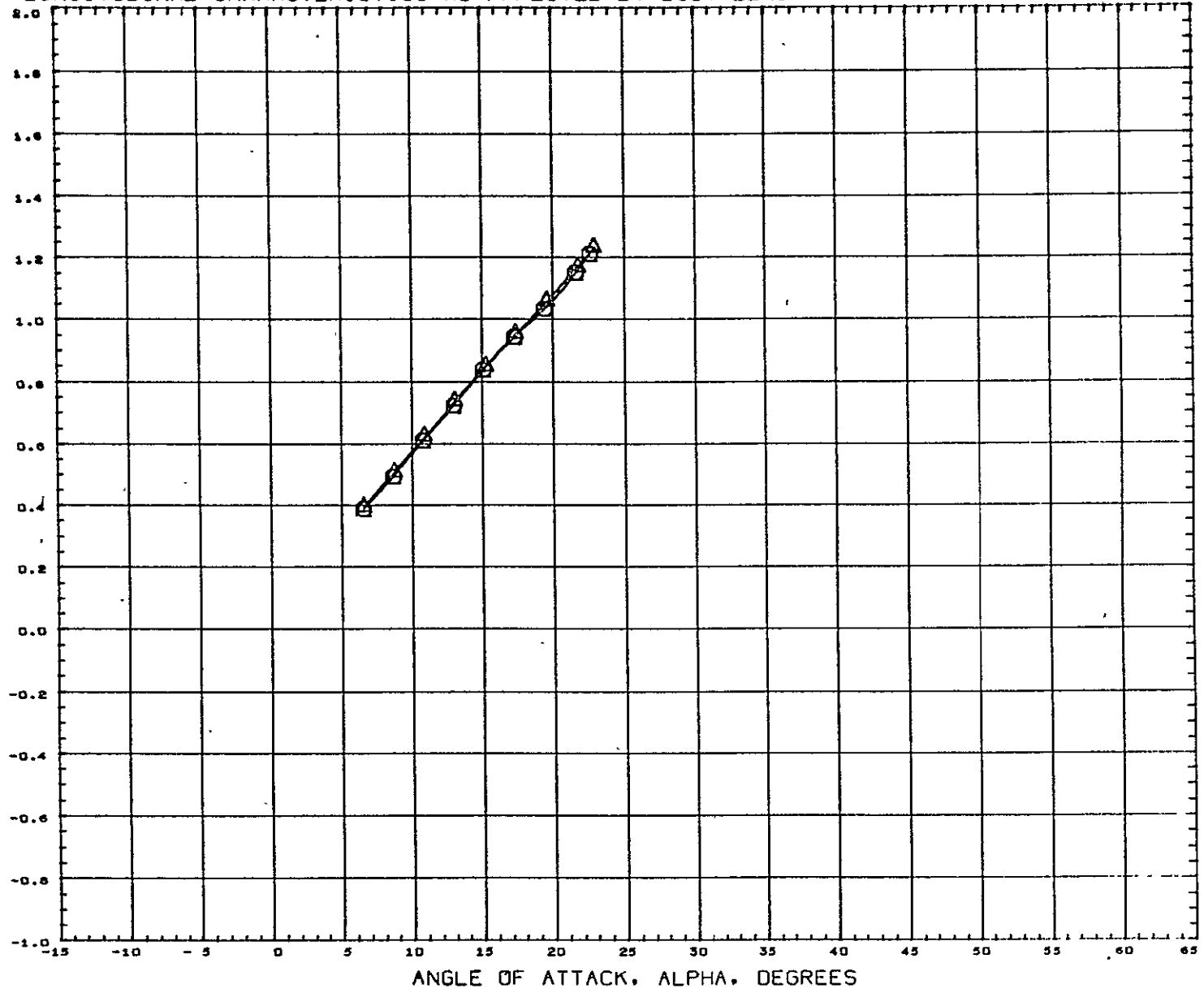
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F26001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C26021)		MSFC481 GD/C(BOOSTER)B20W14C4BV7

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

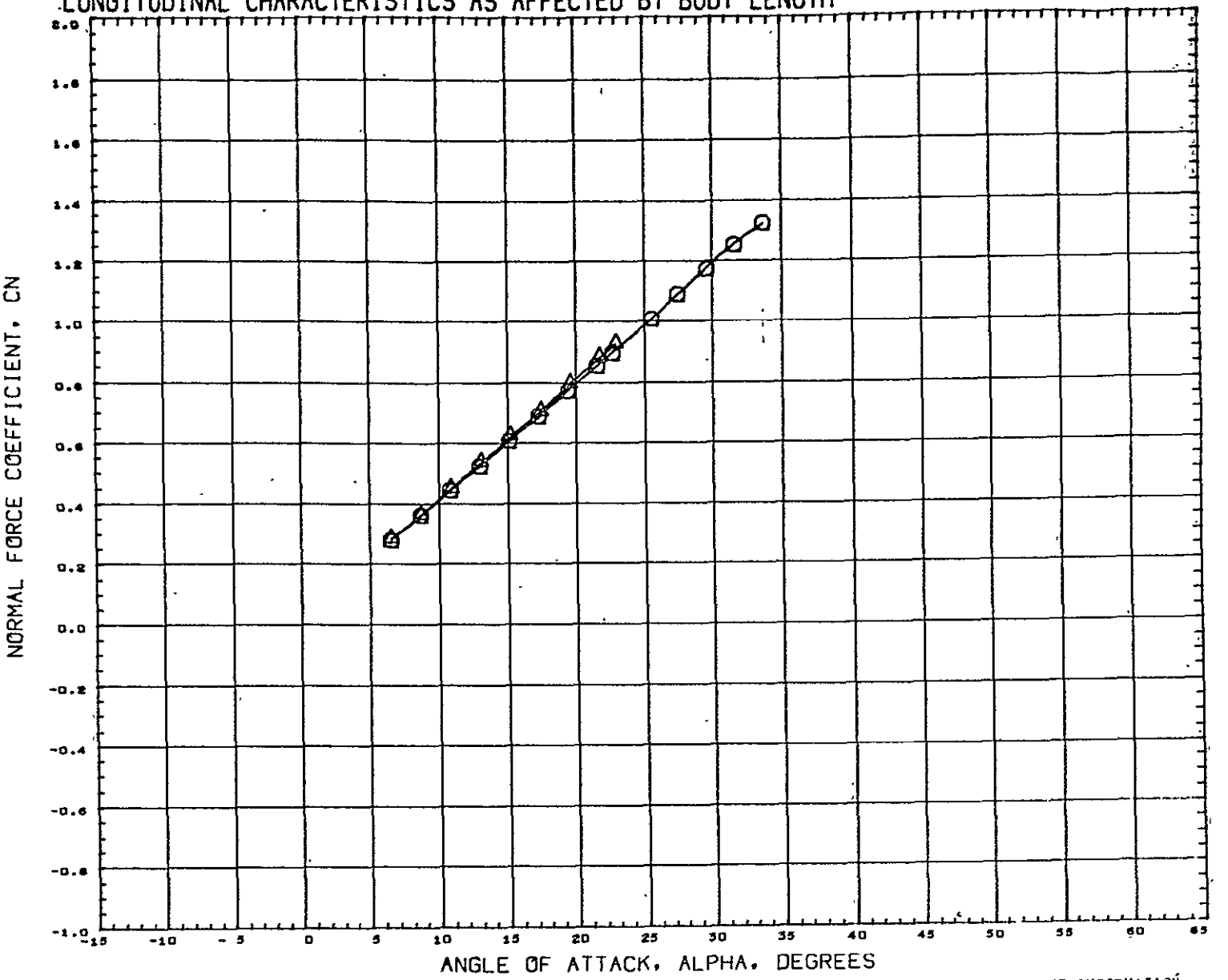


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(F28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(C28021)		MSFC481 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

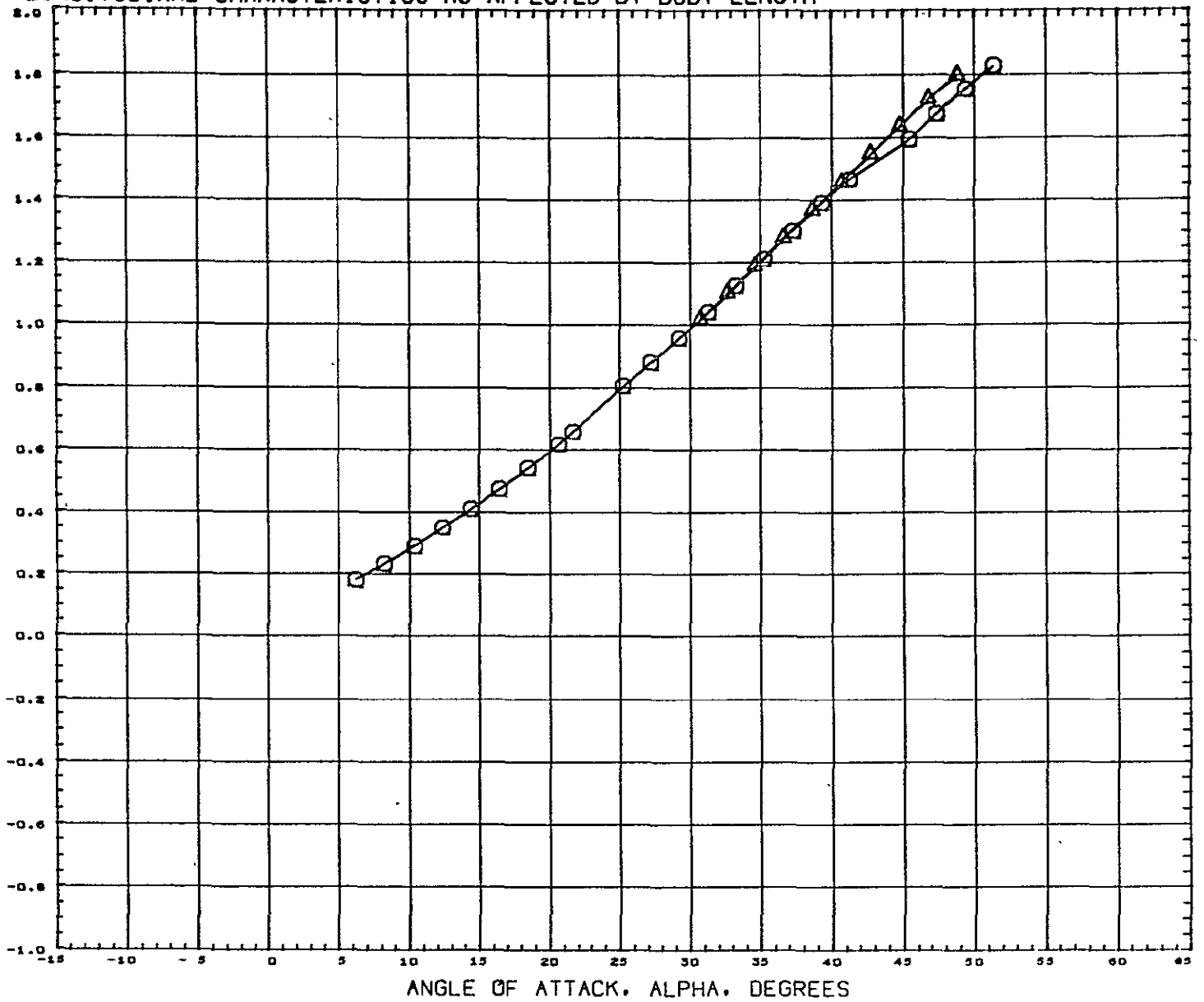


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(F26001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(C28021)		MSFC481 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

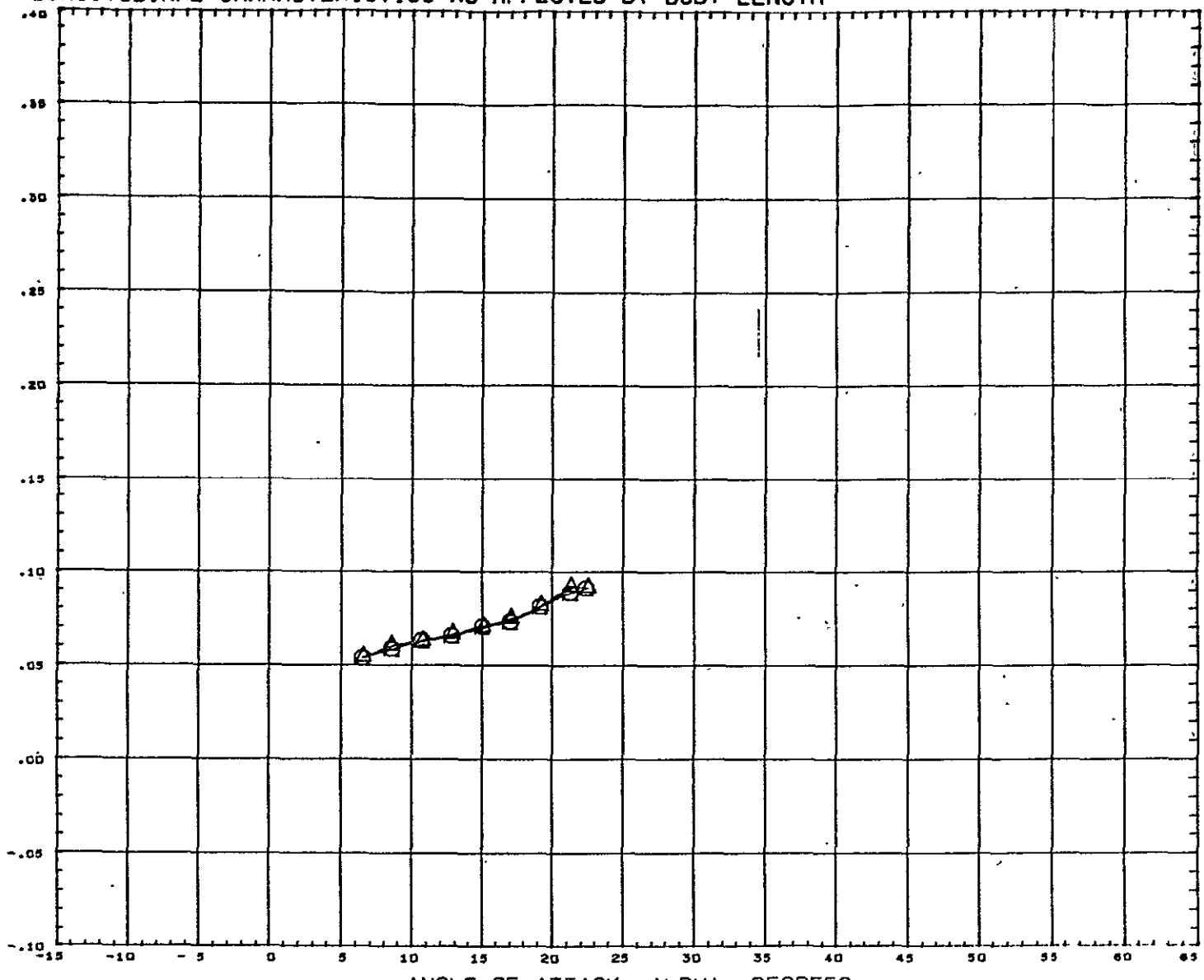


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(F28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(C28021)	△	MSFC481 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

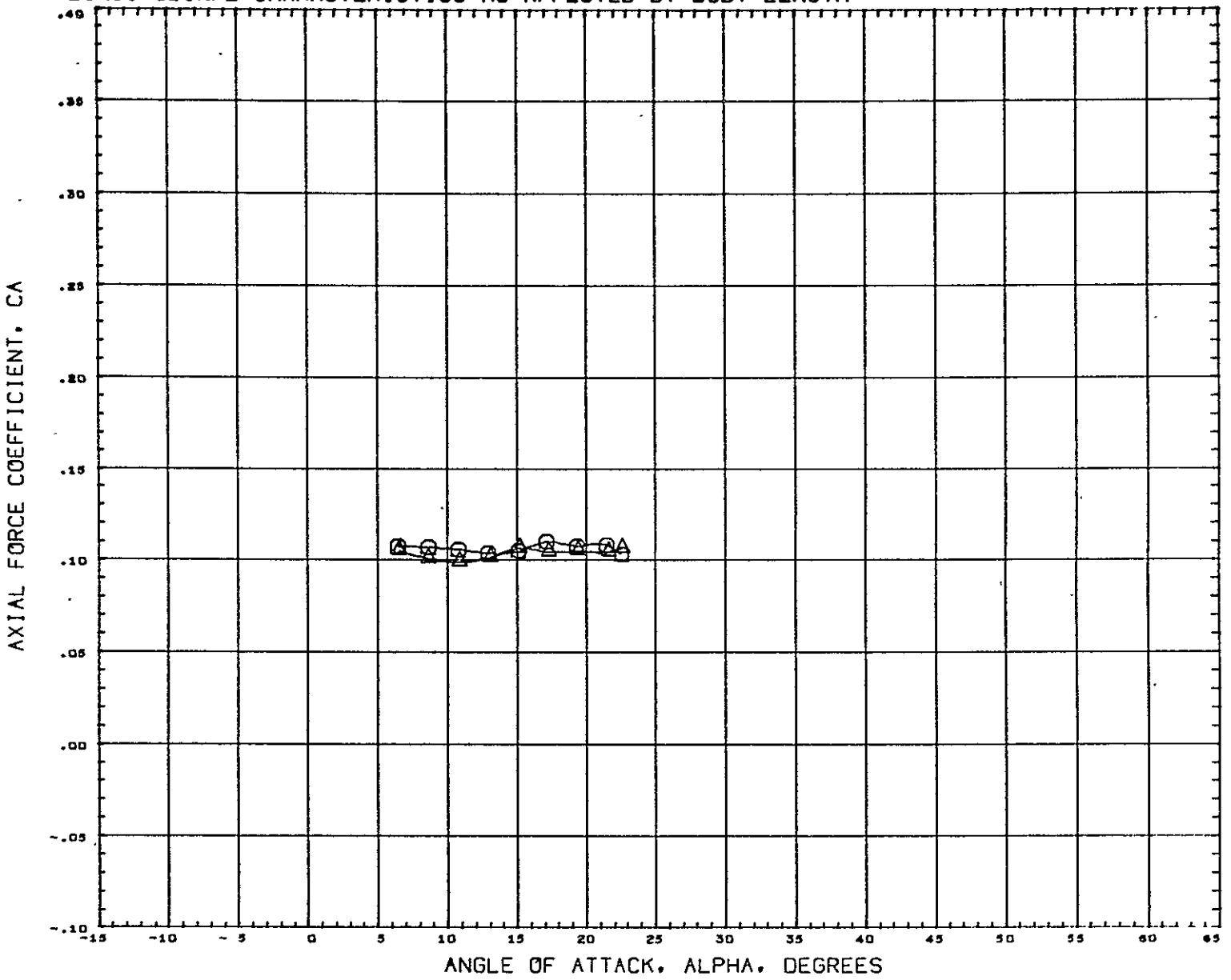


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(F28001)		MSFC461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(C28021)		MSFC461 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

MACH 0.900

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

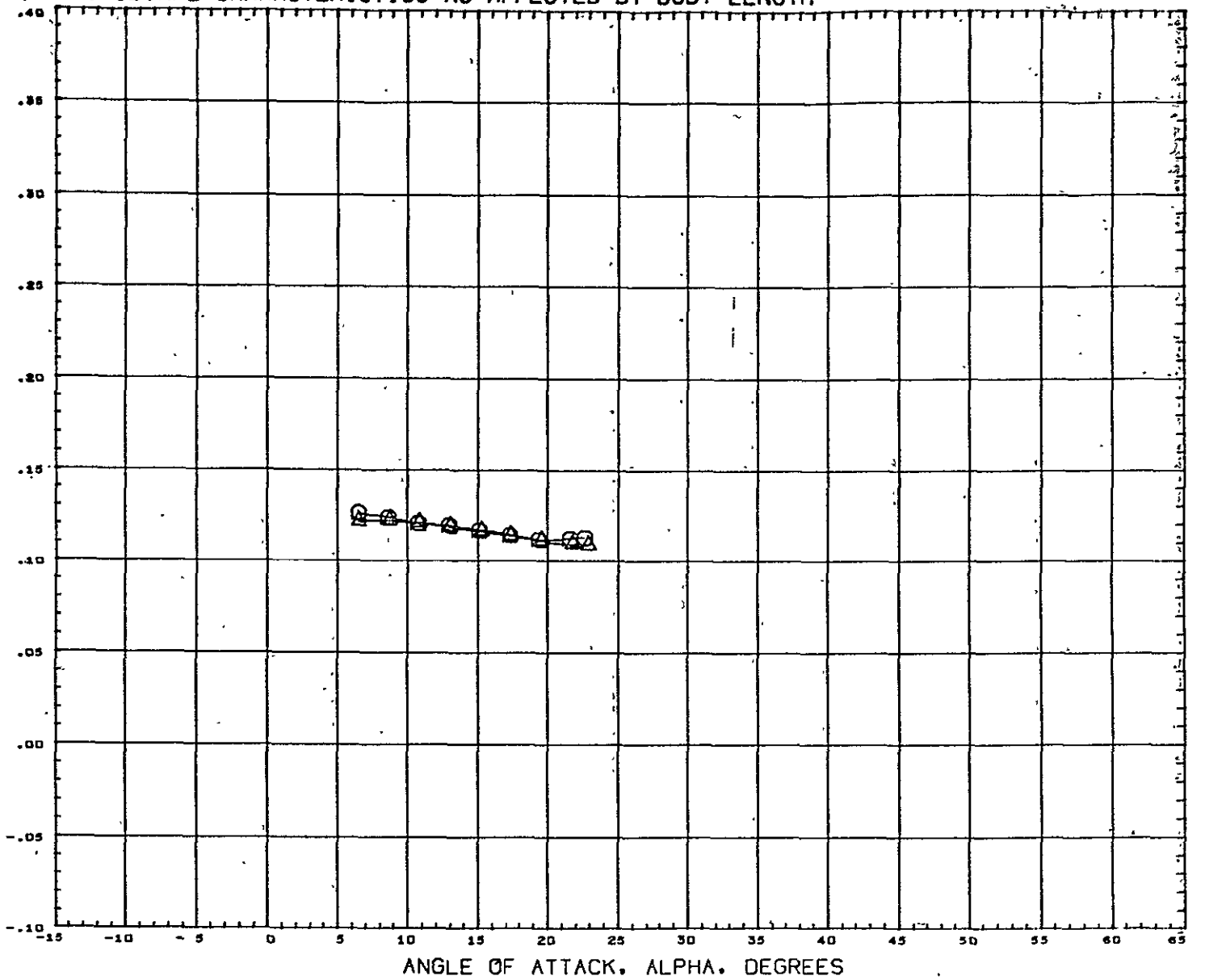


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(F28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(C28021)		MSFC481 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

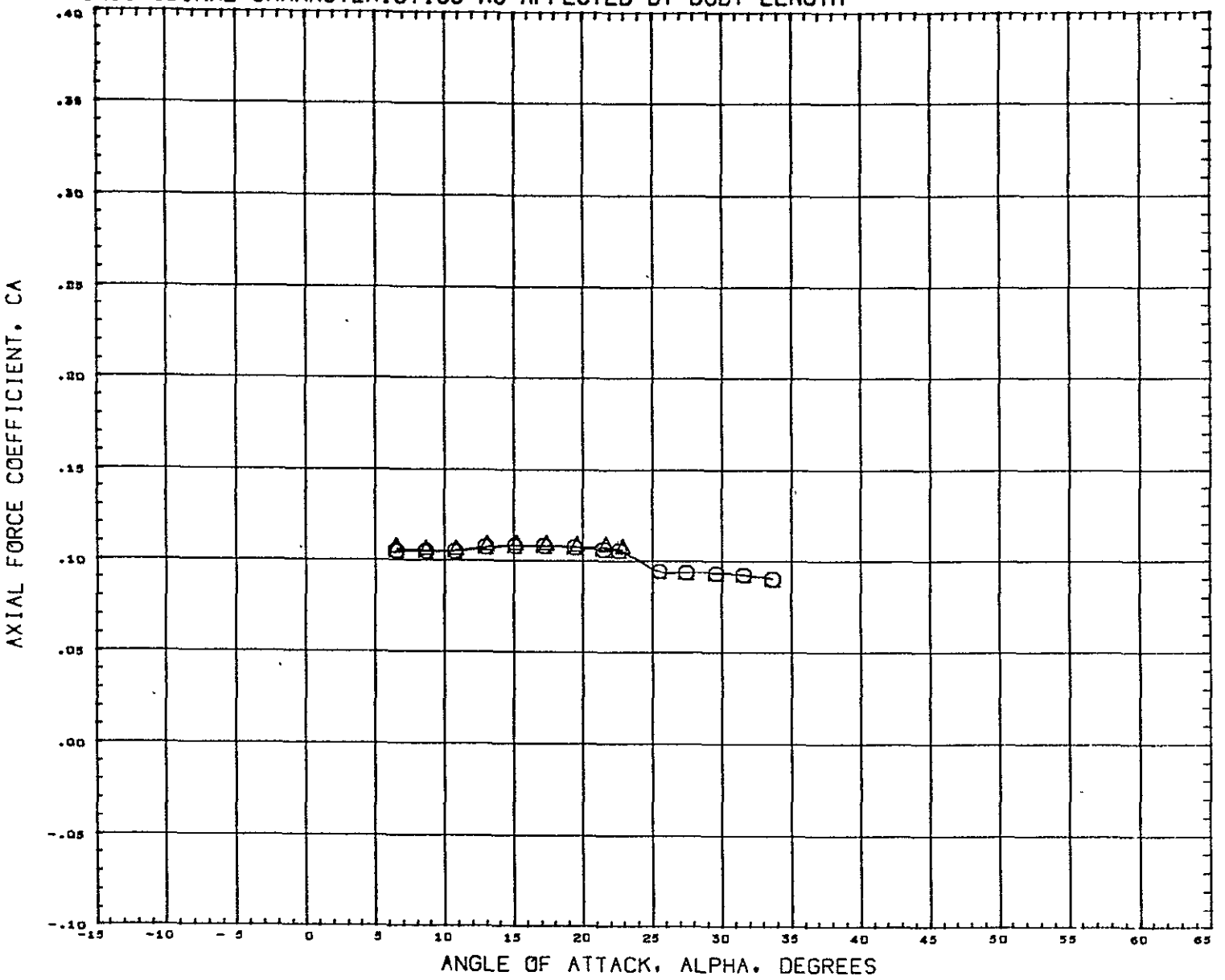


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(F26001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(CZ6021)	△	MSFC481 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

MACH 1.201

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH



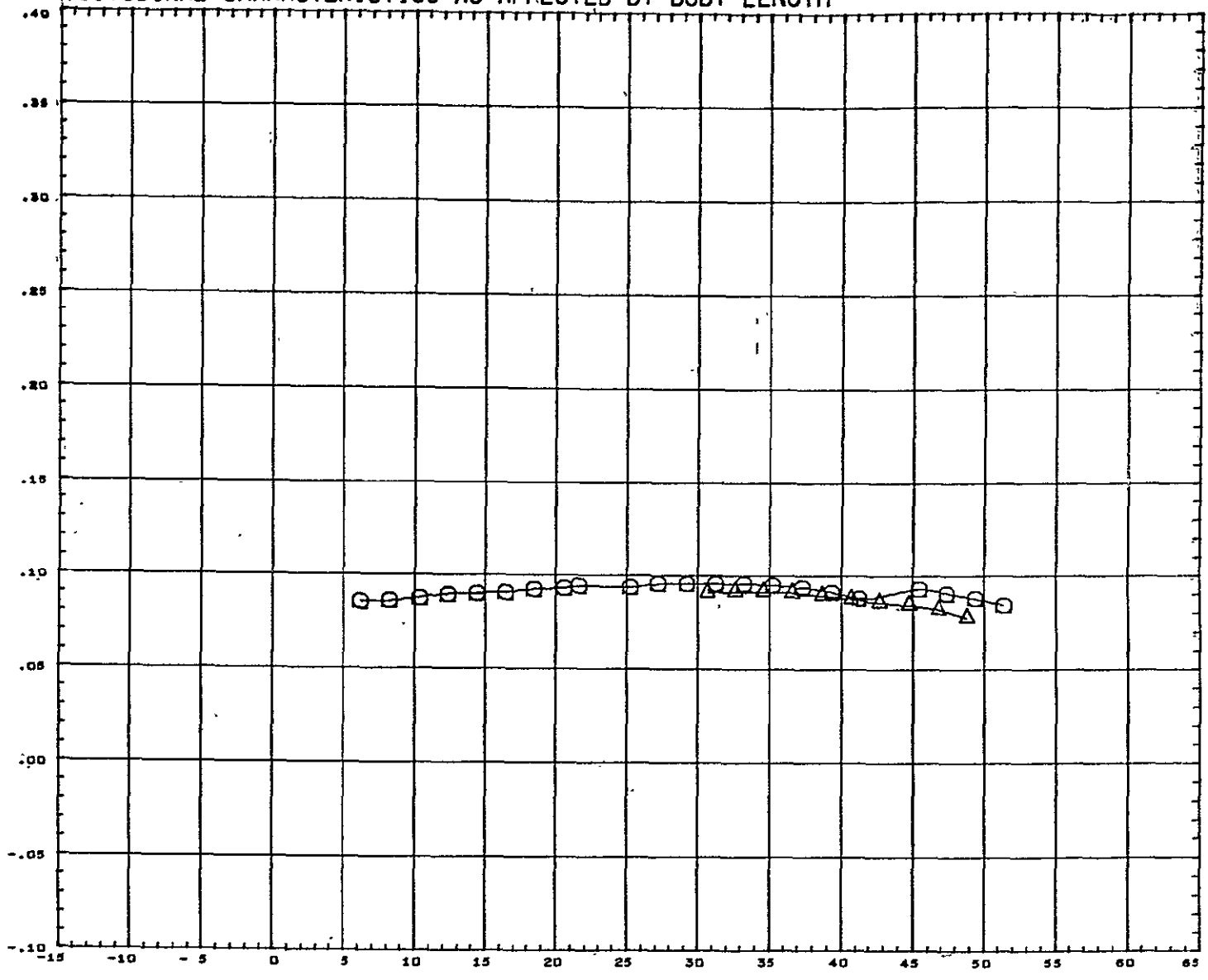
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F26001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C26021)	△	MSFC481 GD/C(BOOSTER)B20W14C4BV7

BETA	ELEVON	CANARD	RUDDER
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH



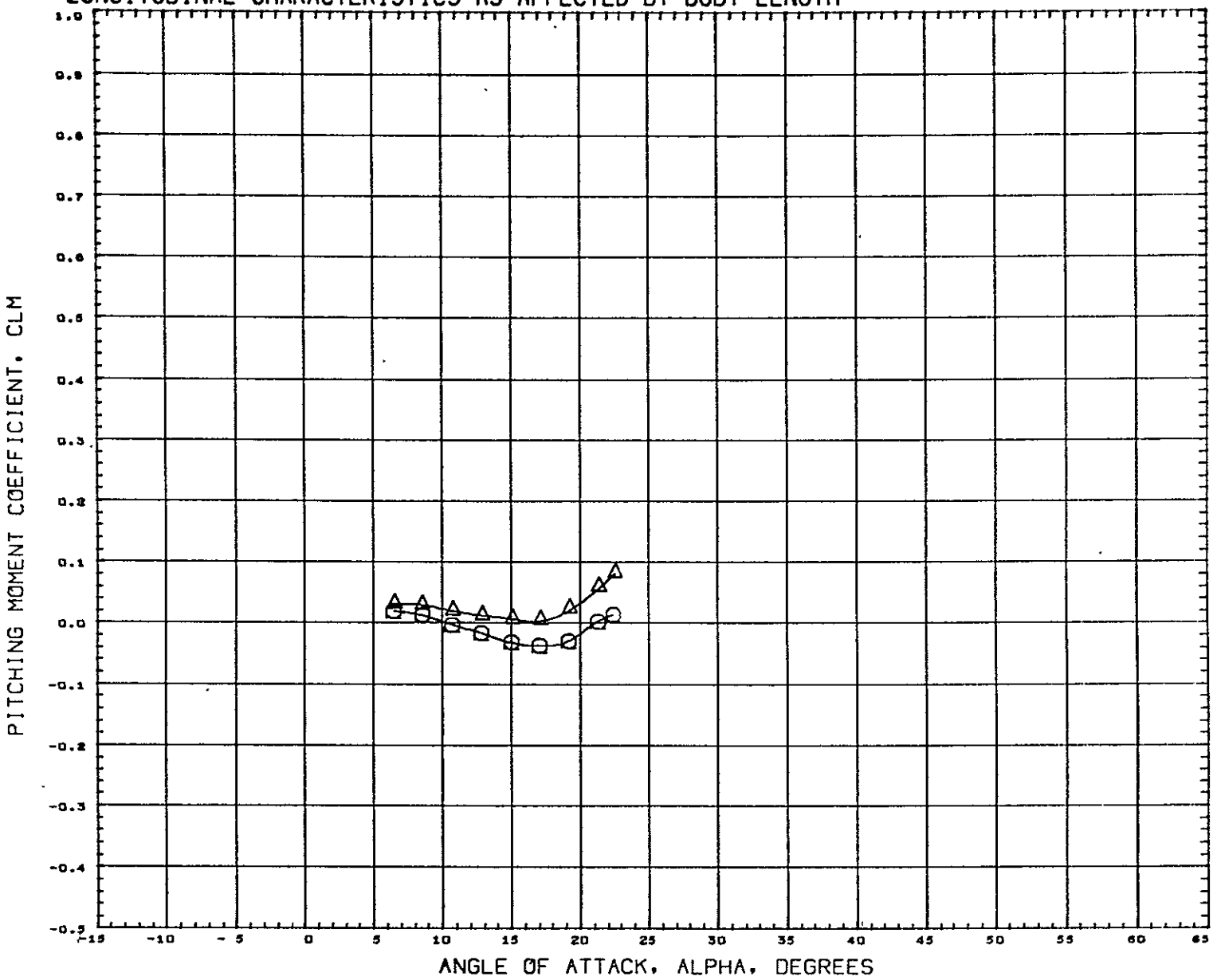
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(C28021)	△	MSFC481 GD/C(BOOSTER)B20W14C4BV7

	BETA	ELEVON	CANARD	RUDDER
	0.000	0.000	0.000	
	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

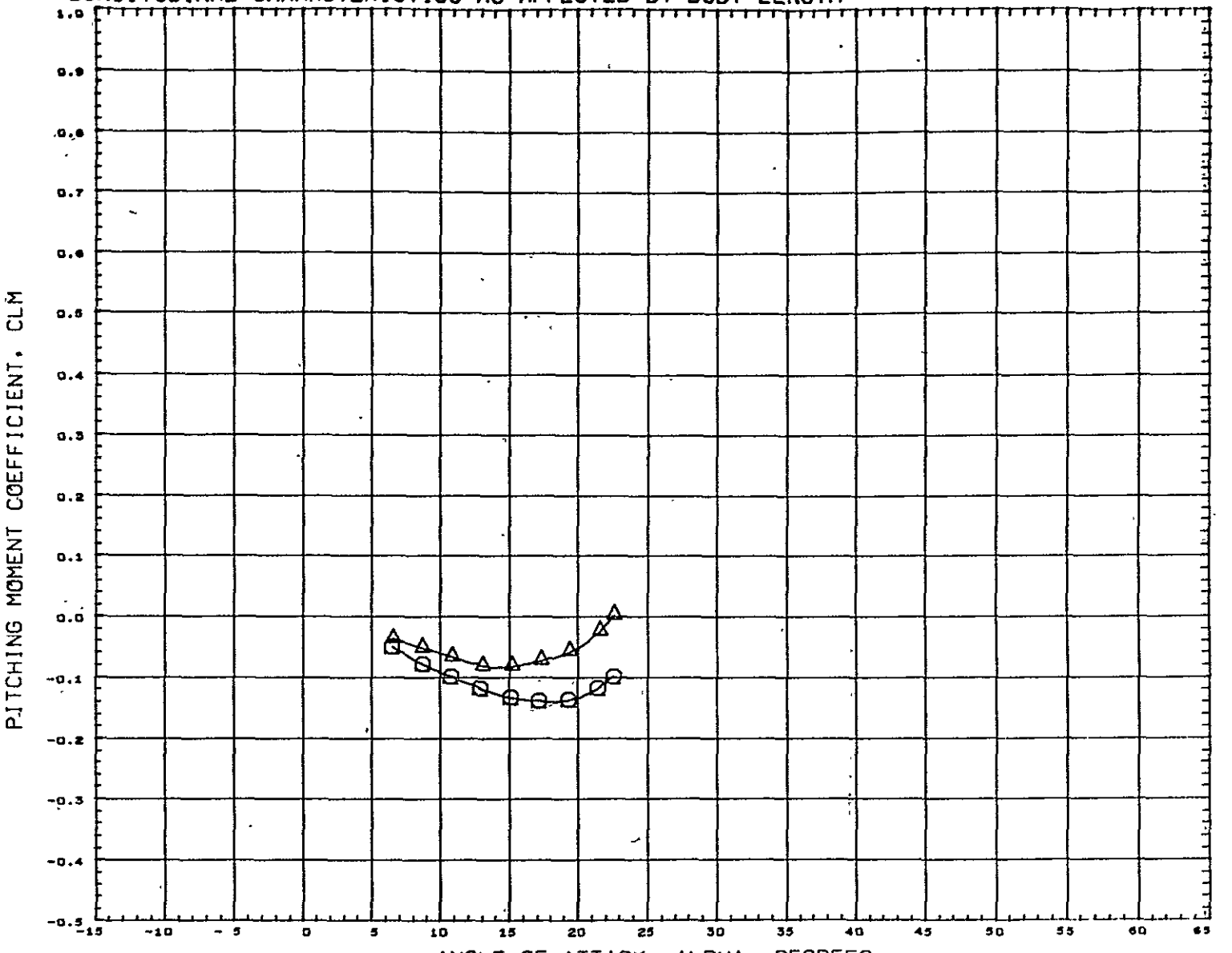


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(F26001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(C26021)		MSFC481 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.900

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

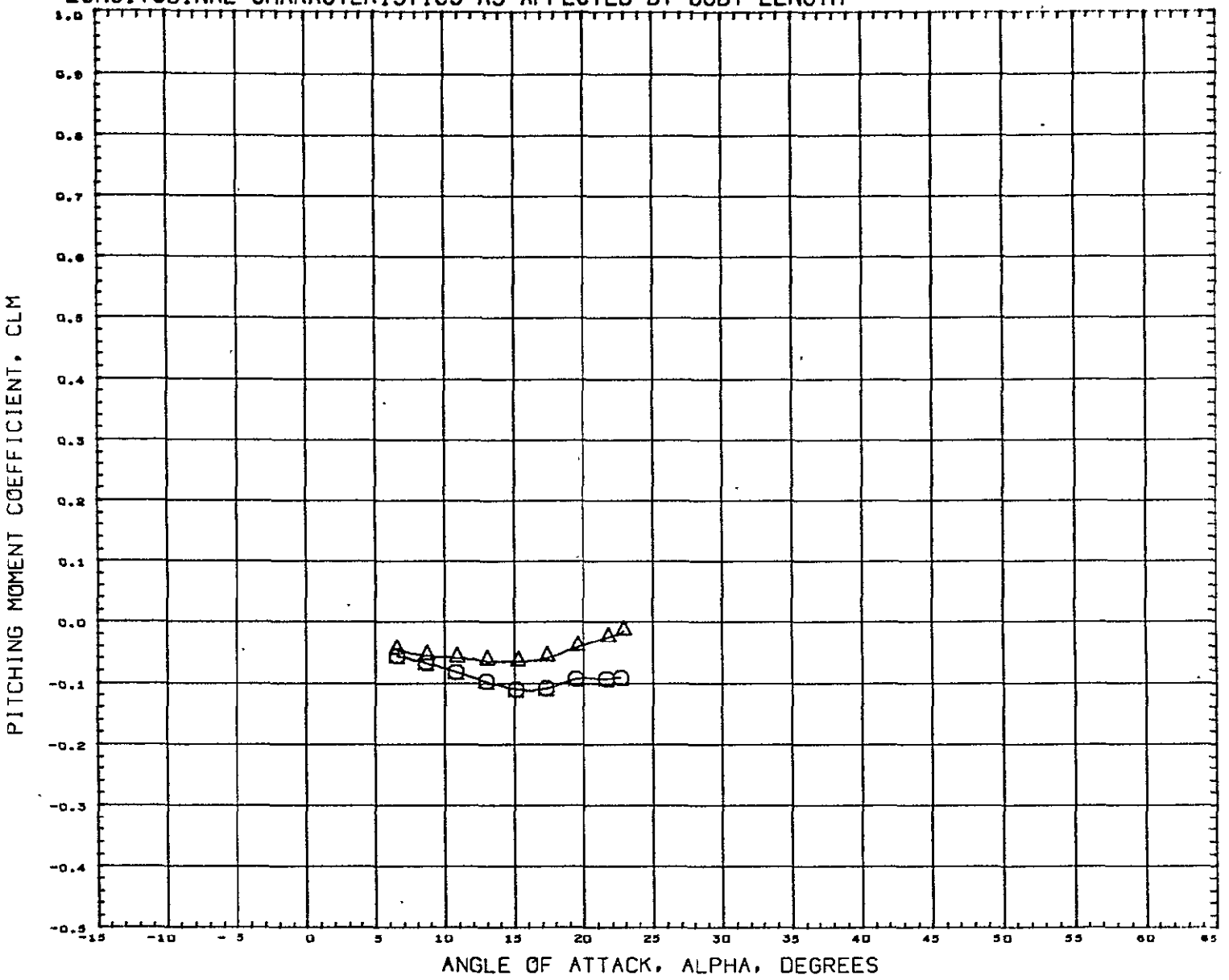


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(F26001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(C26021)	△	MSFC481 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

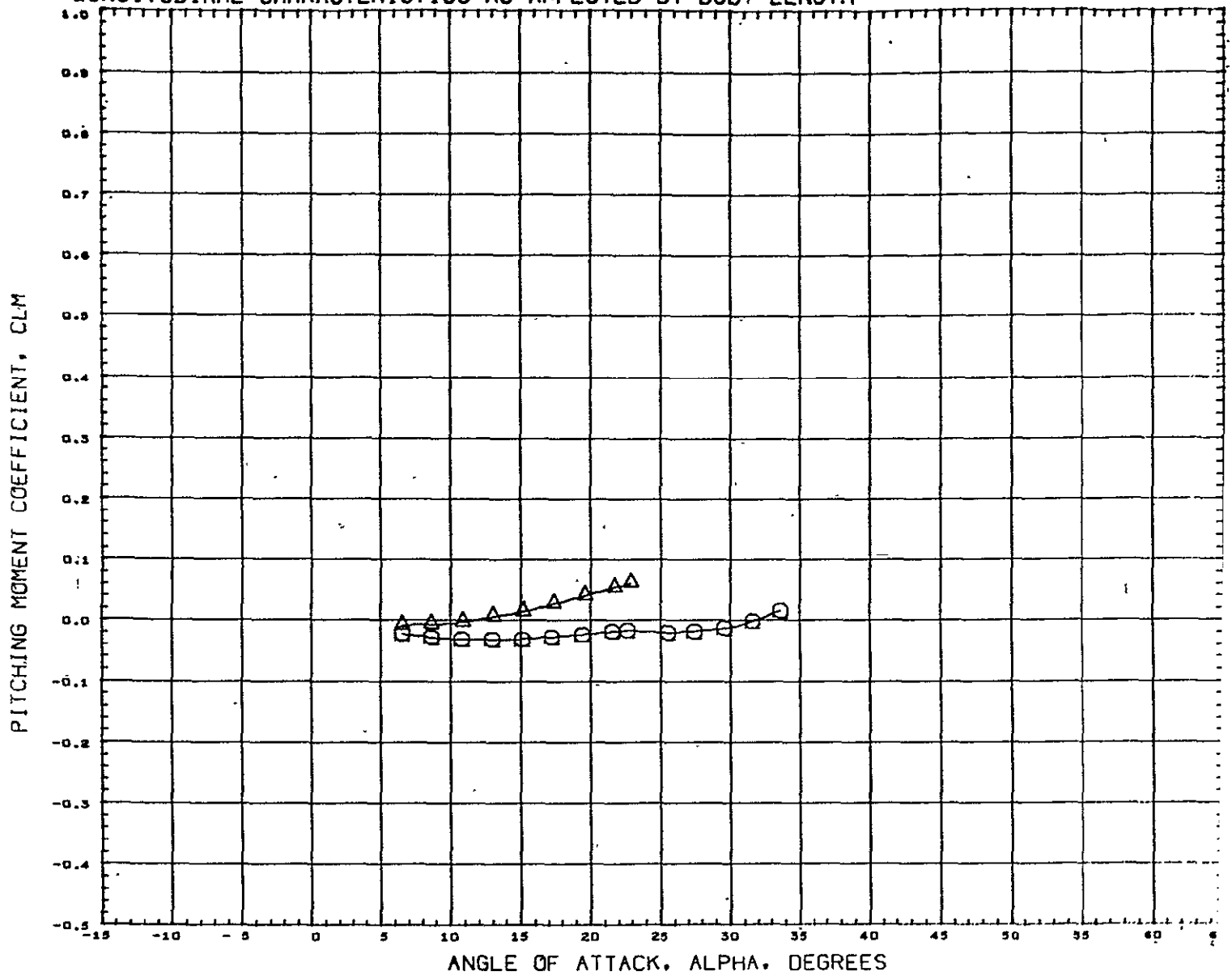


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(F28001)		M9FC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(C28021)		M9FC481 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

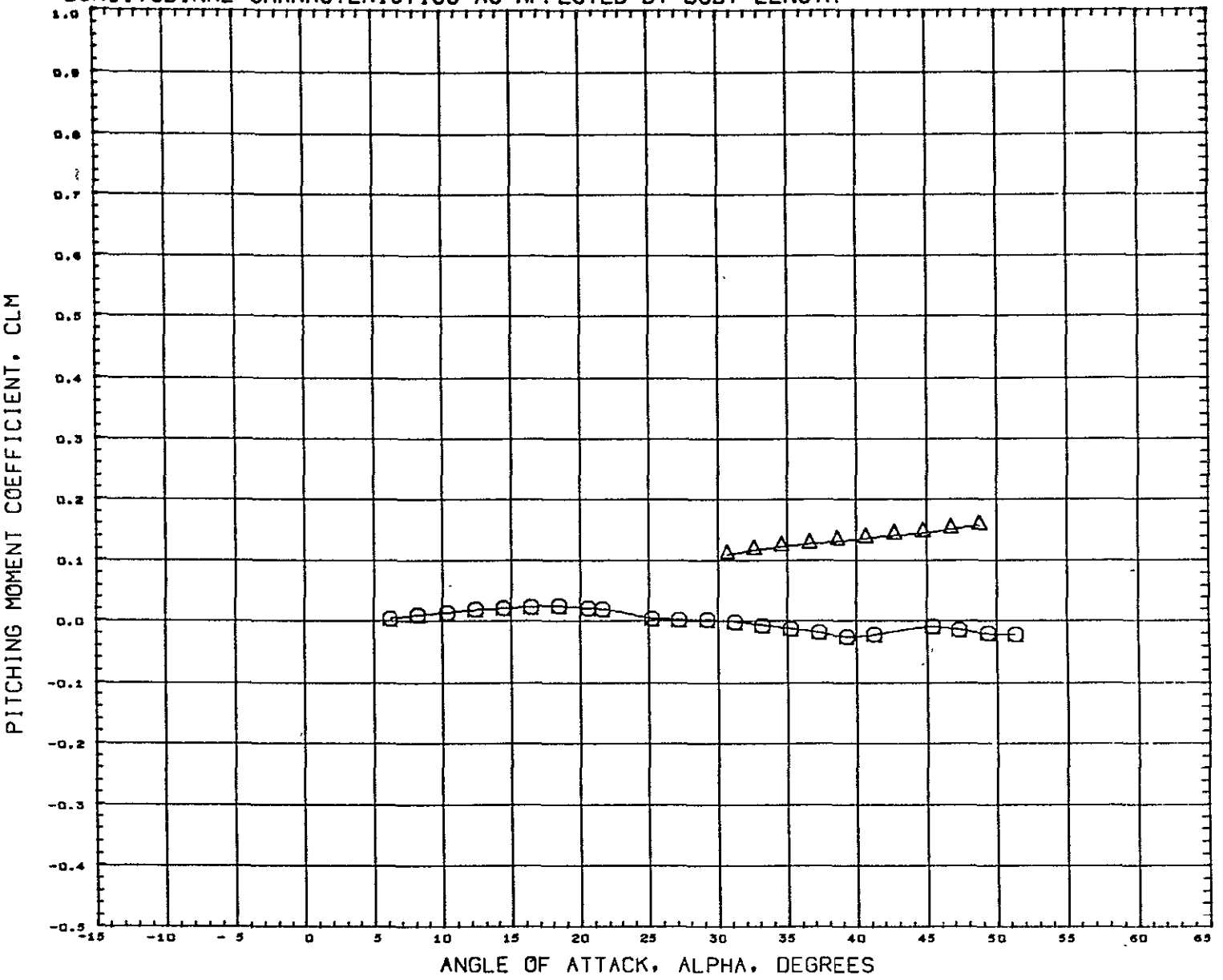


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(FZ8001)	○	MSFC401 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(CZ8021)	△	MSFC401 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

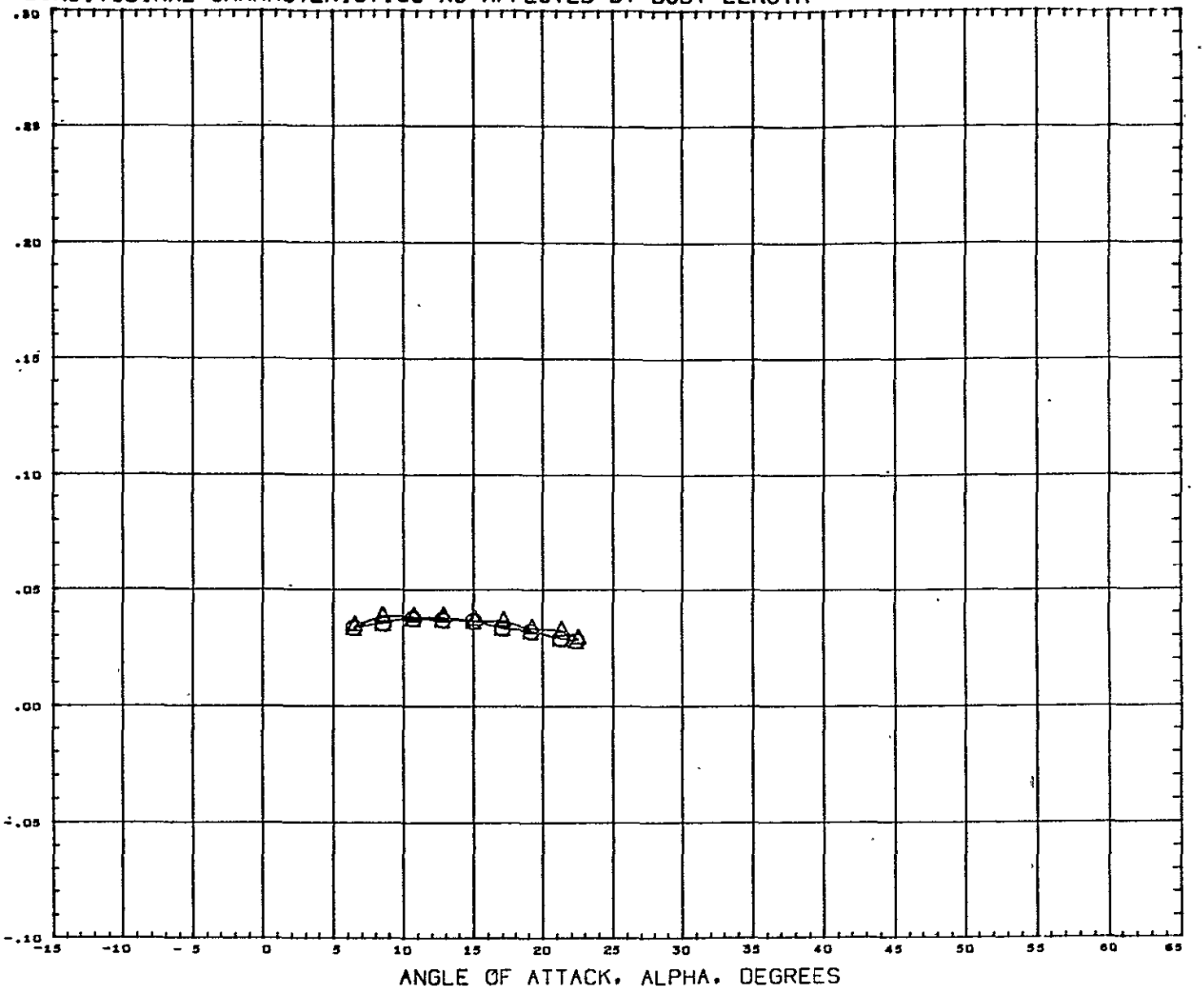


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(F28001)	○	HSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(C28021)	△	HSFC481 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0930	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

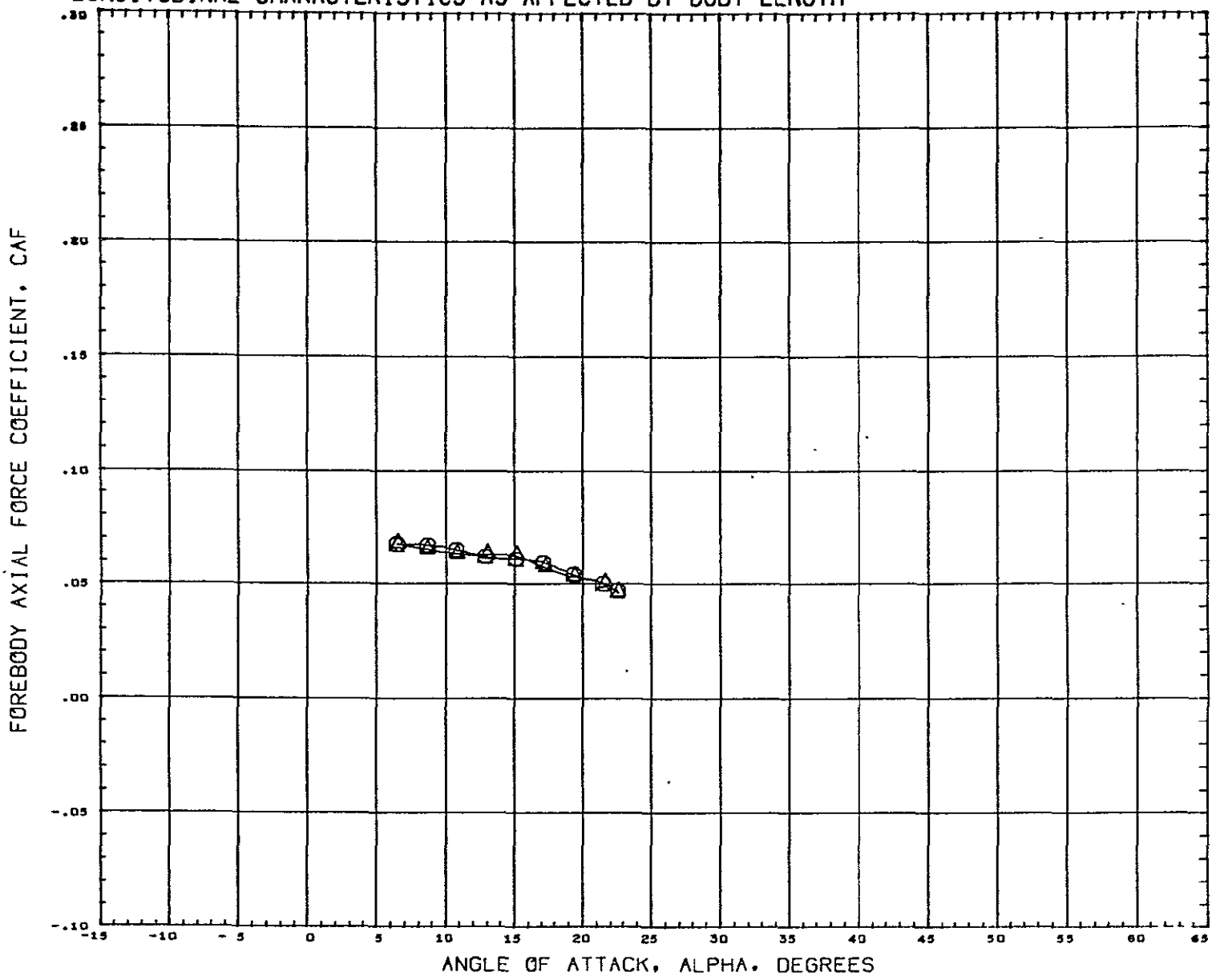


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(F28001)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(C28021)		MSFC481 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.900

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

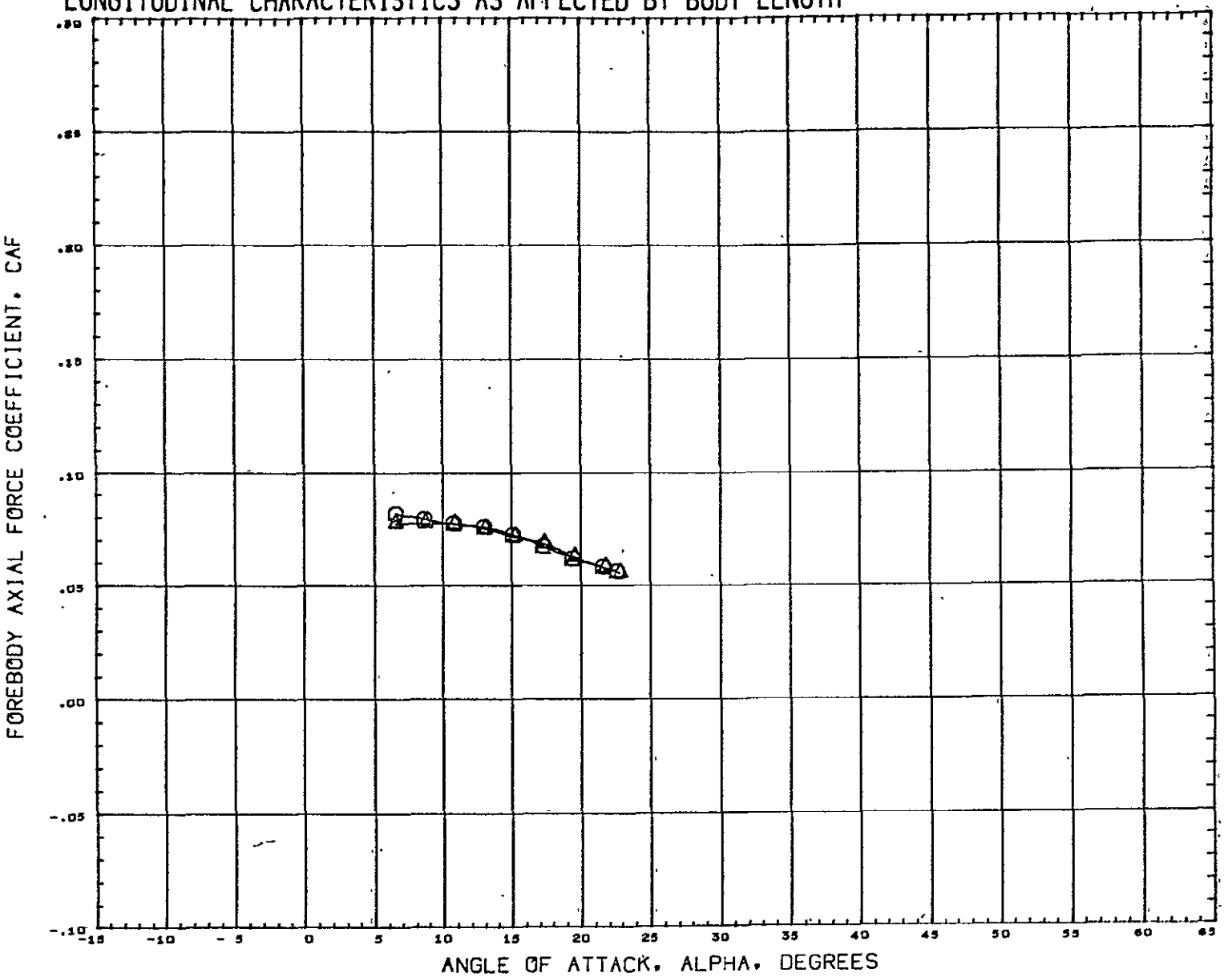


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(F28001)		MSFC481 GD/C(BOOSTER)B19W14C4AY7	0.000	0.000	0.000	
(C28021)		MSFC481 GD/C(BOOSTER)B20W14C4BY7	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH



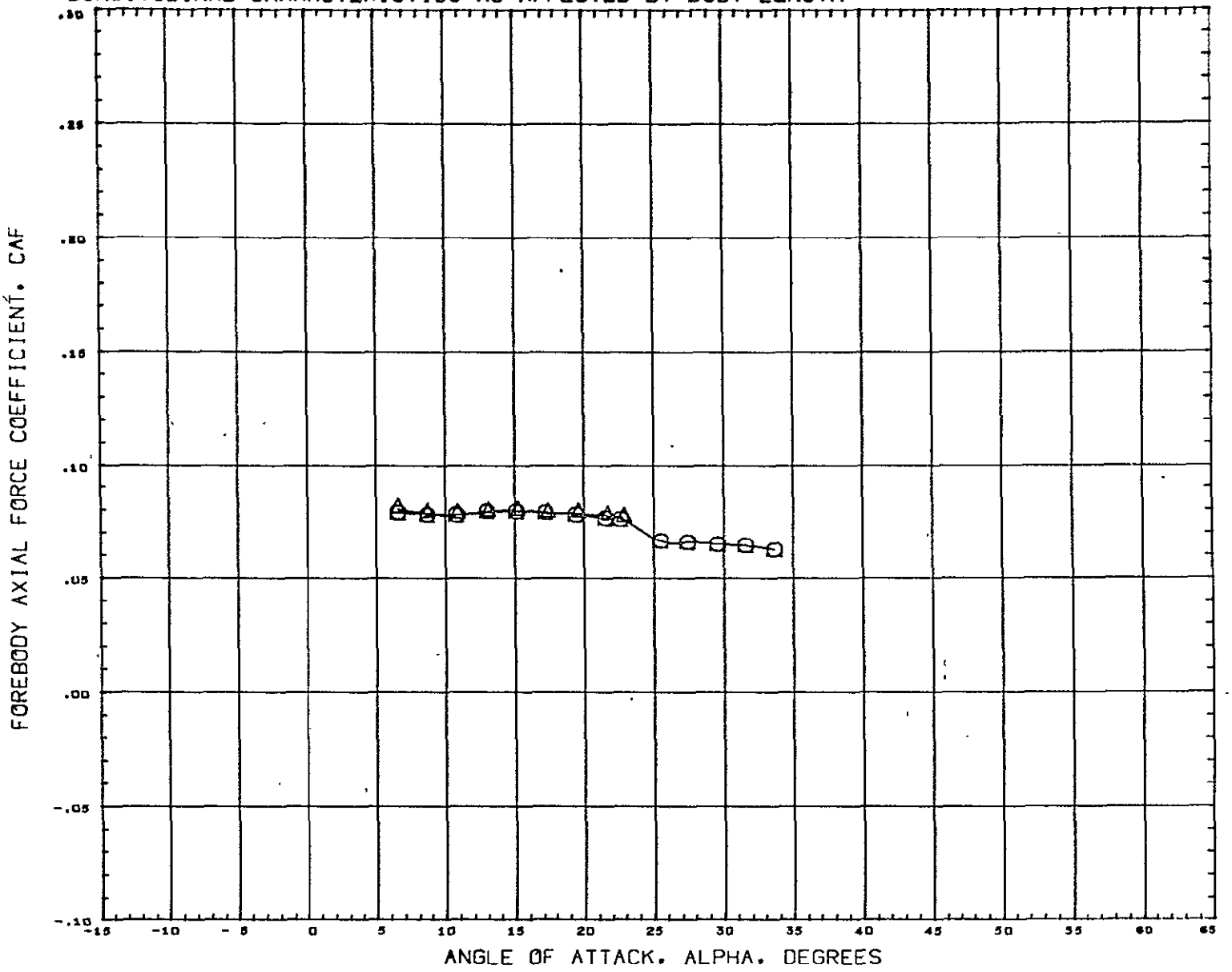
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(F28001)		M3FC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(C28021)		M3FC481 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

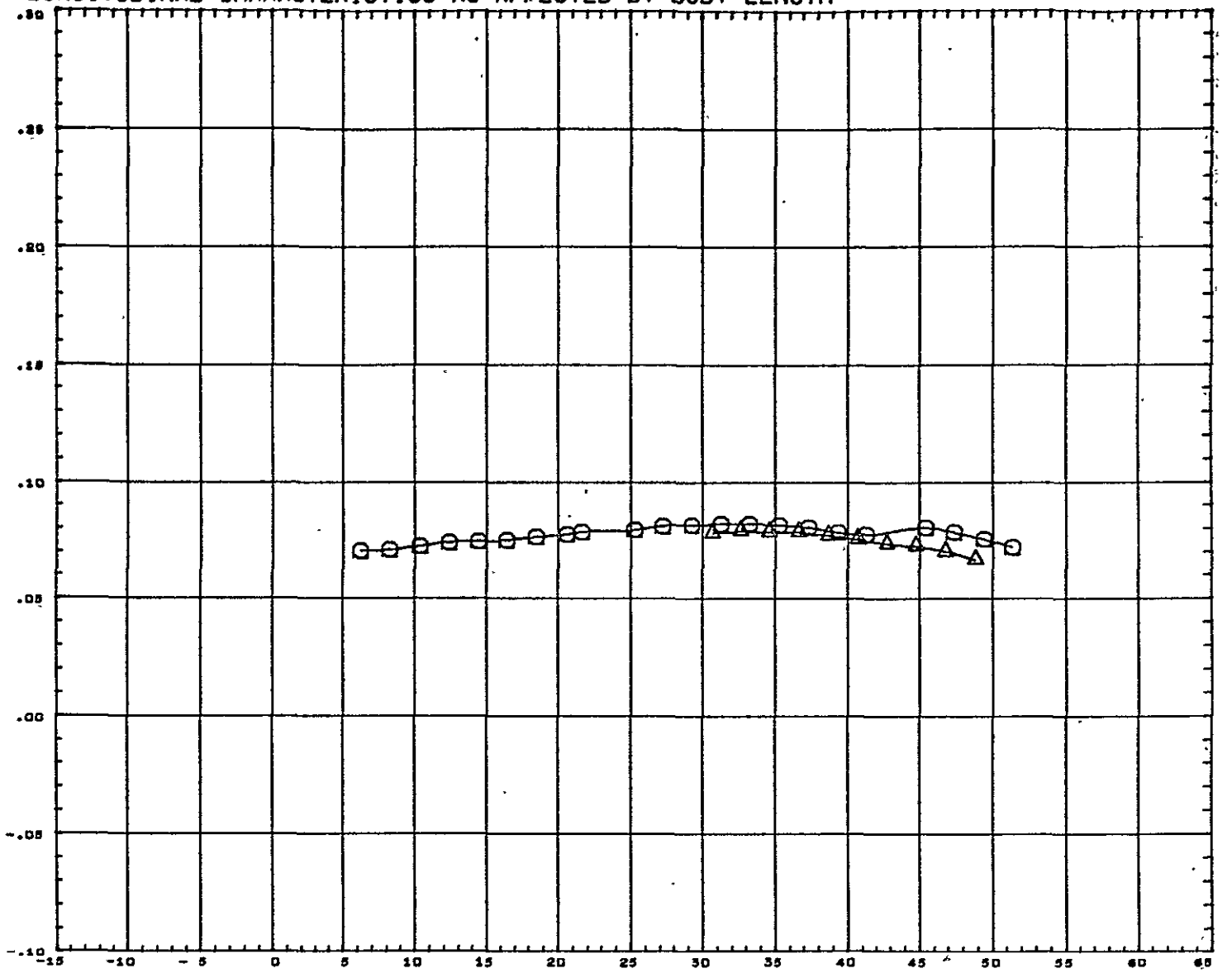


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(F28001)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(C28021)	△	MSFC481 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

LONGITUDINAL CHARACTERISTICS AS AFFECTED BY BODY LENGTH

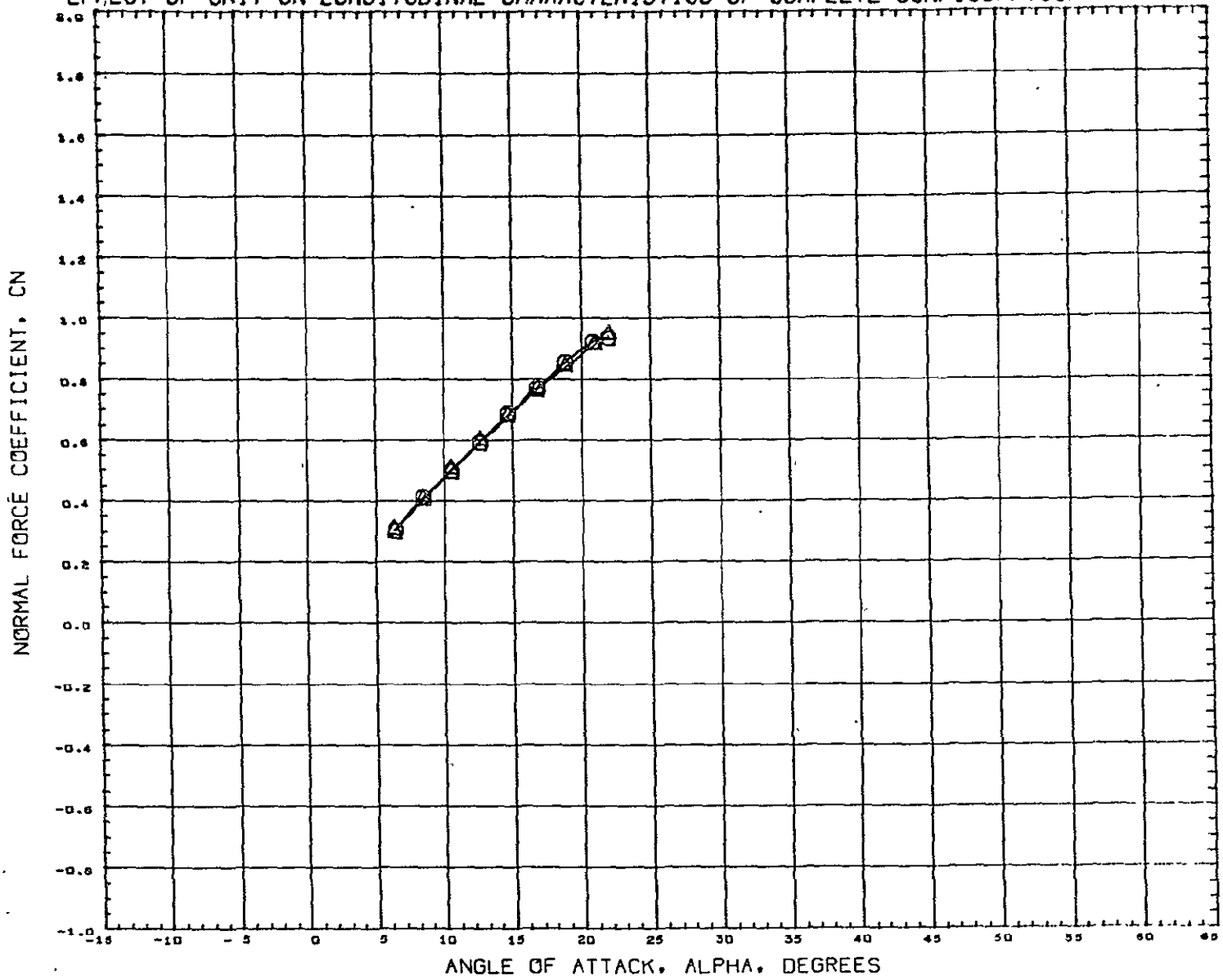


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(FZ0001)		HSFC481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(CZ0021)		HSFC481 GD/C(BOOSTER)B20W14C4BV7	0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0890	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

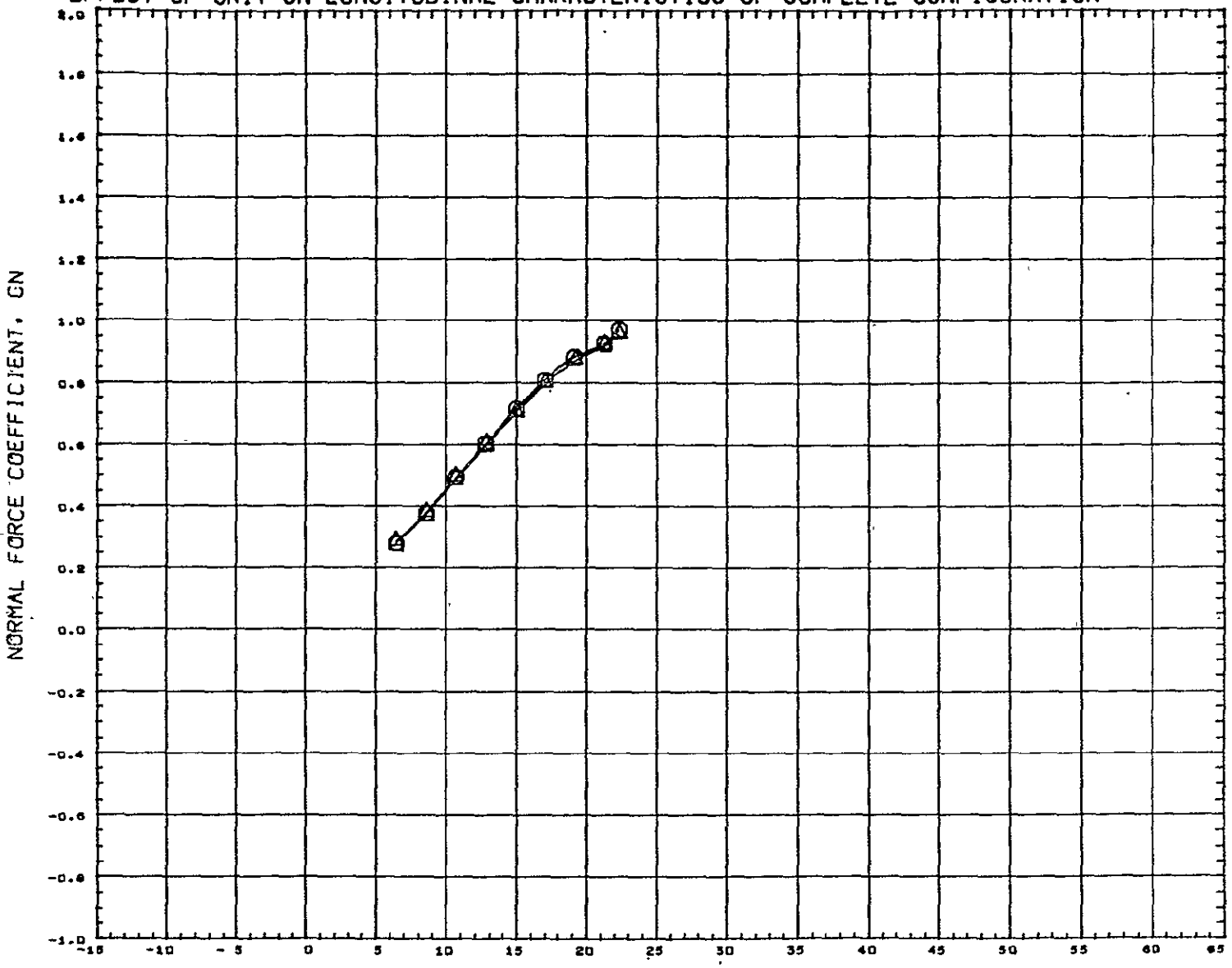


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E26B31)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E26G01)	△	MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0930	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

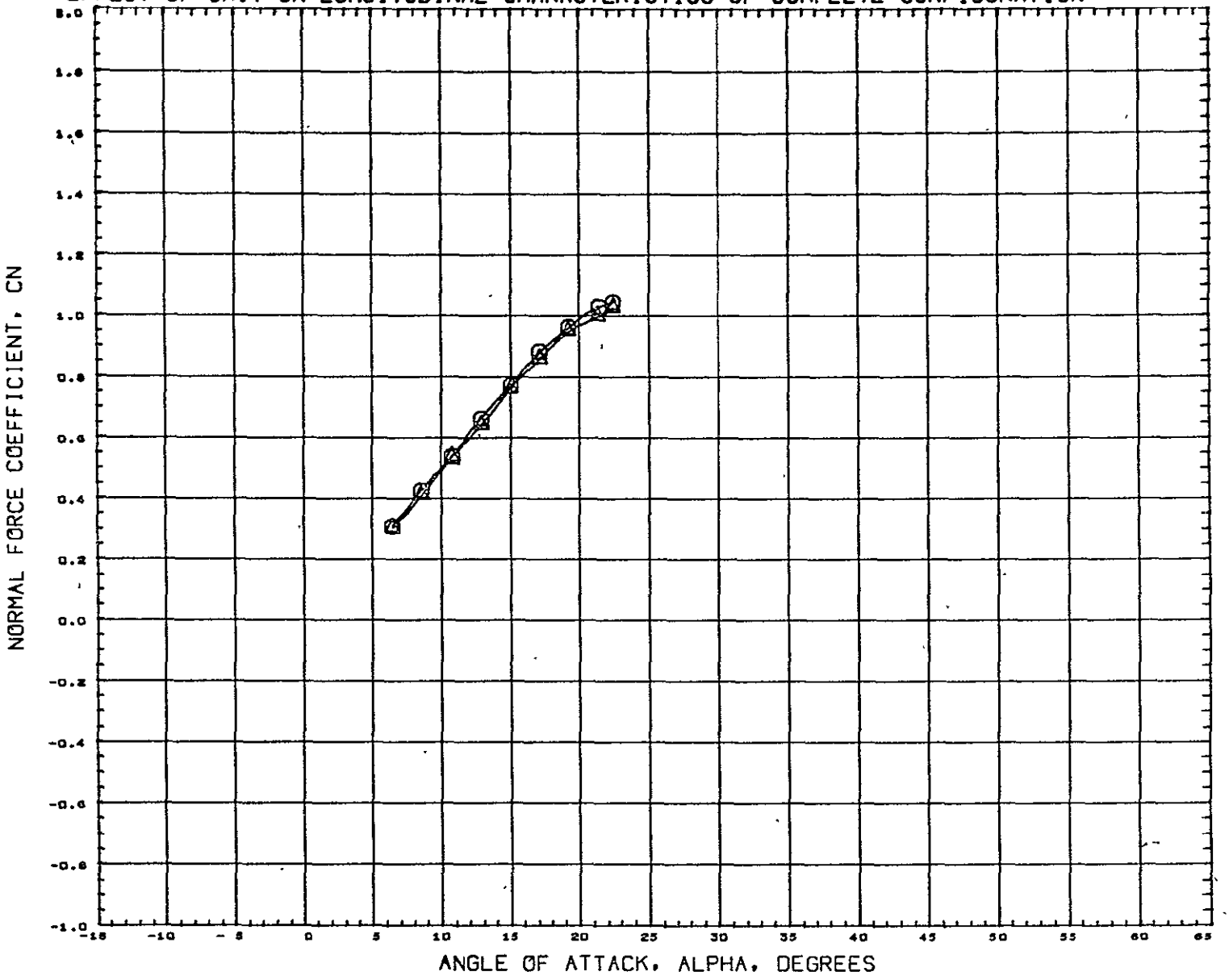


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28031)		M3FC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)		M3FC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

MACH 0.900

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

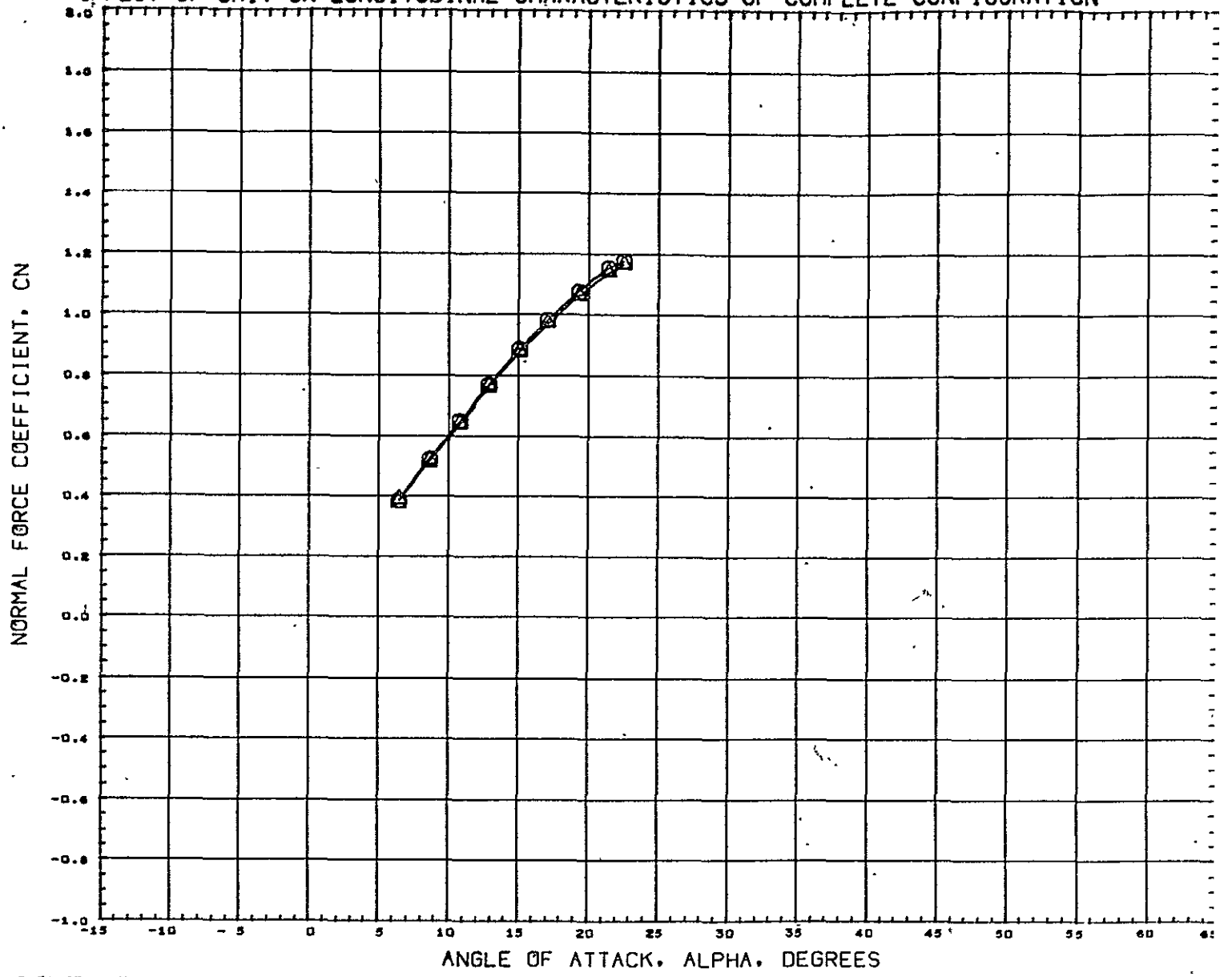


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E26831)		MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28601)		MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

MACH 0.954

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

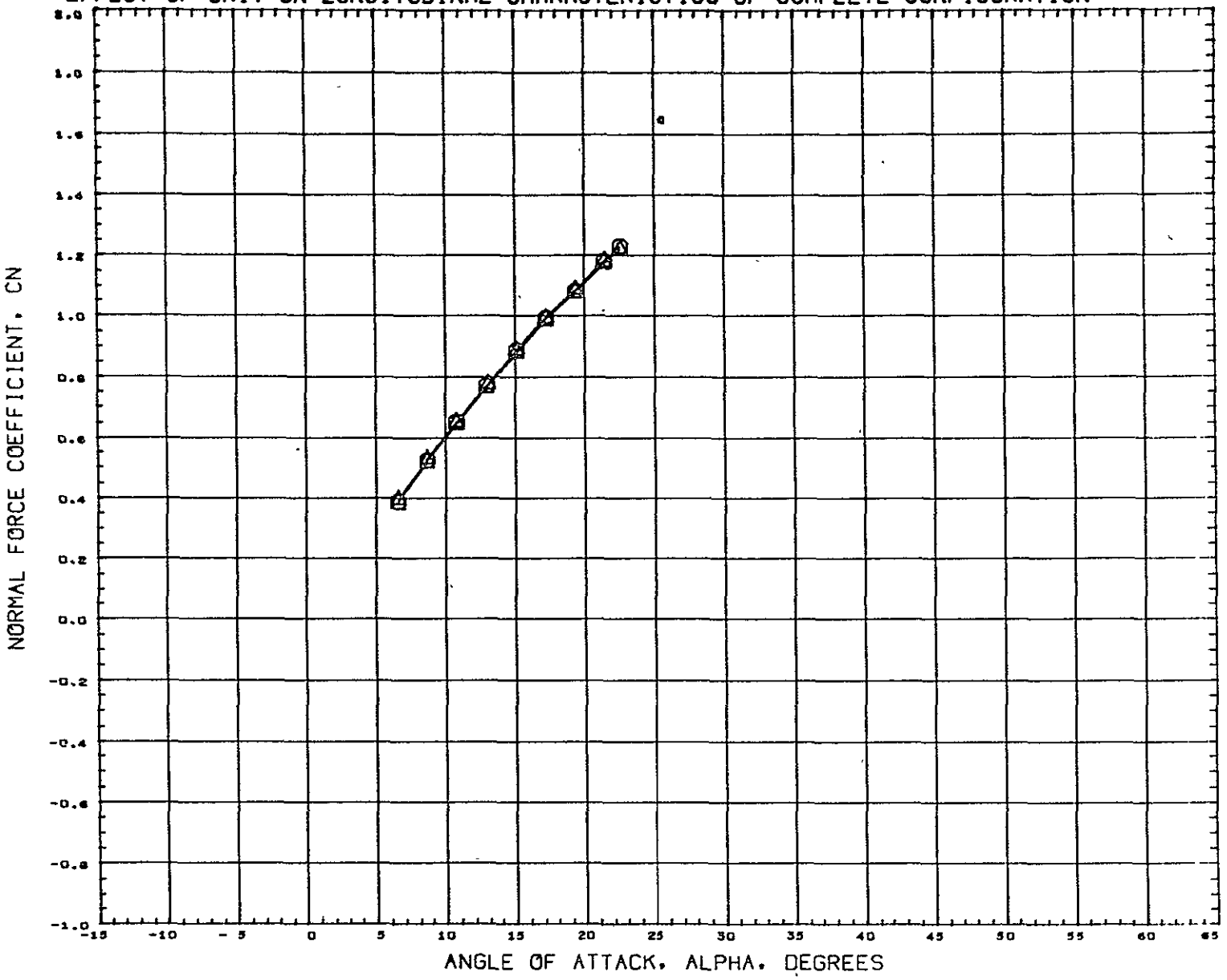


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E26B31)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E26C01)	△	MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION



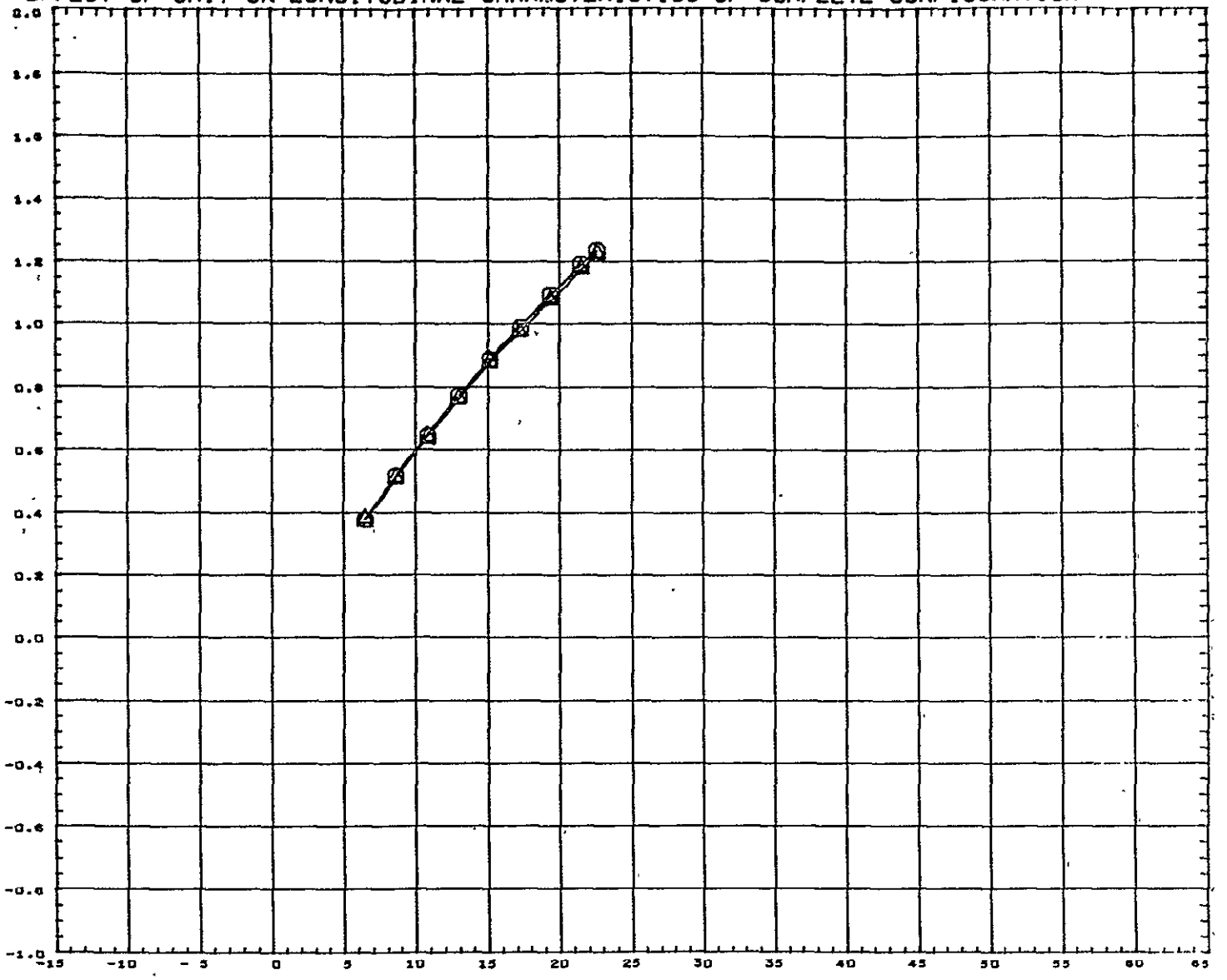
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E26B31)		MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E26G01)		MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

18 (A)

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

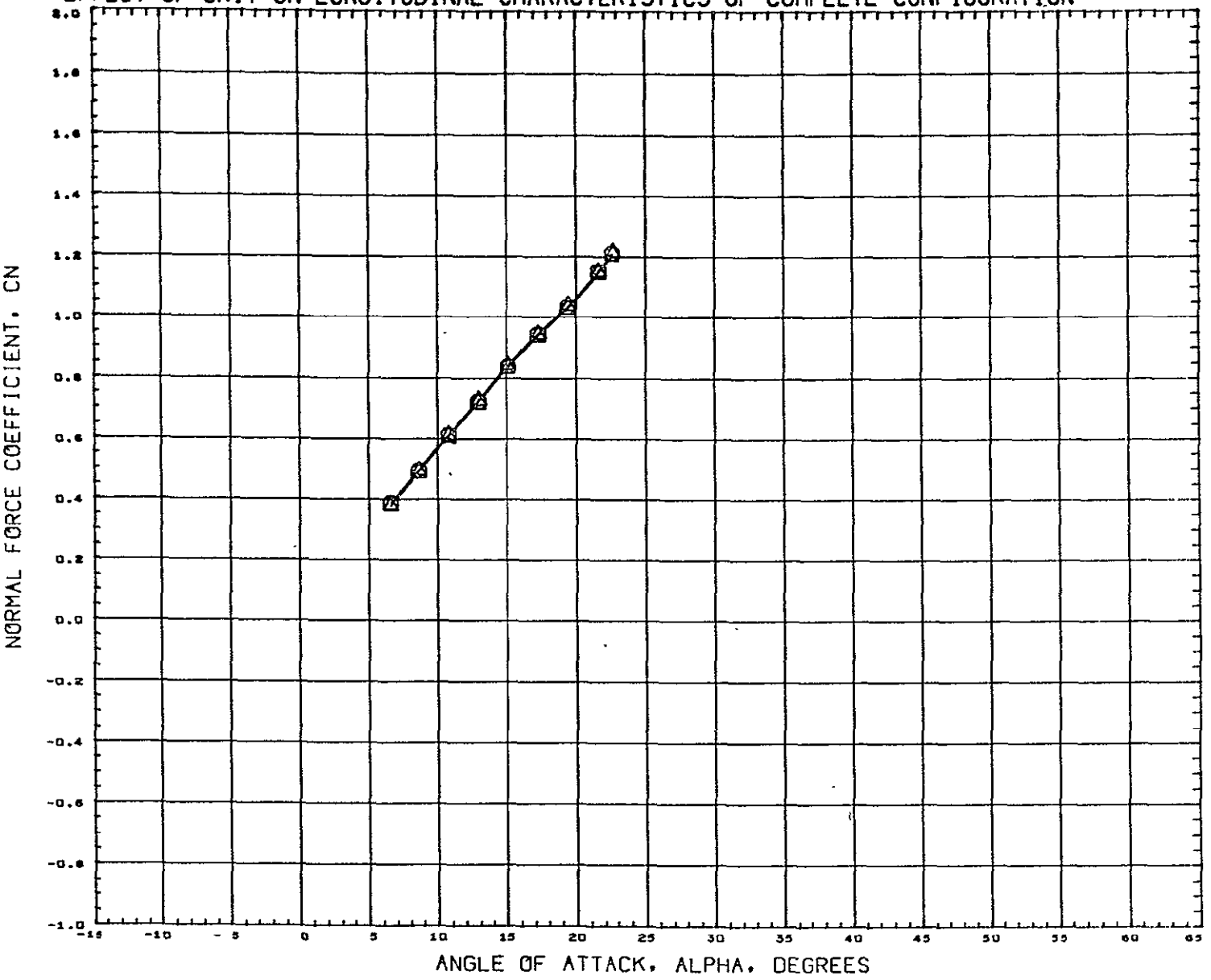


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28B31)	○	M5FC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)	△	M5FC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.105

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION



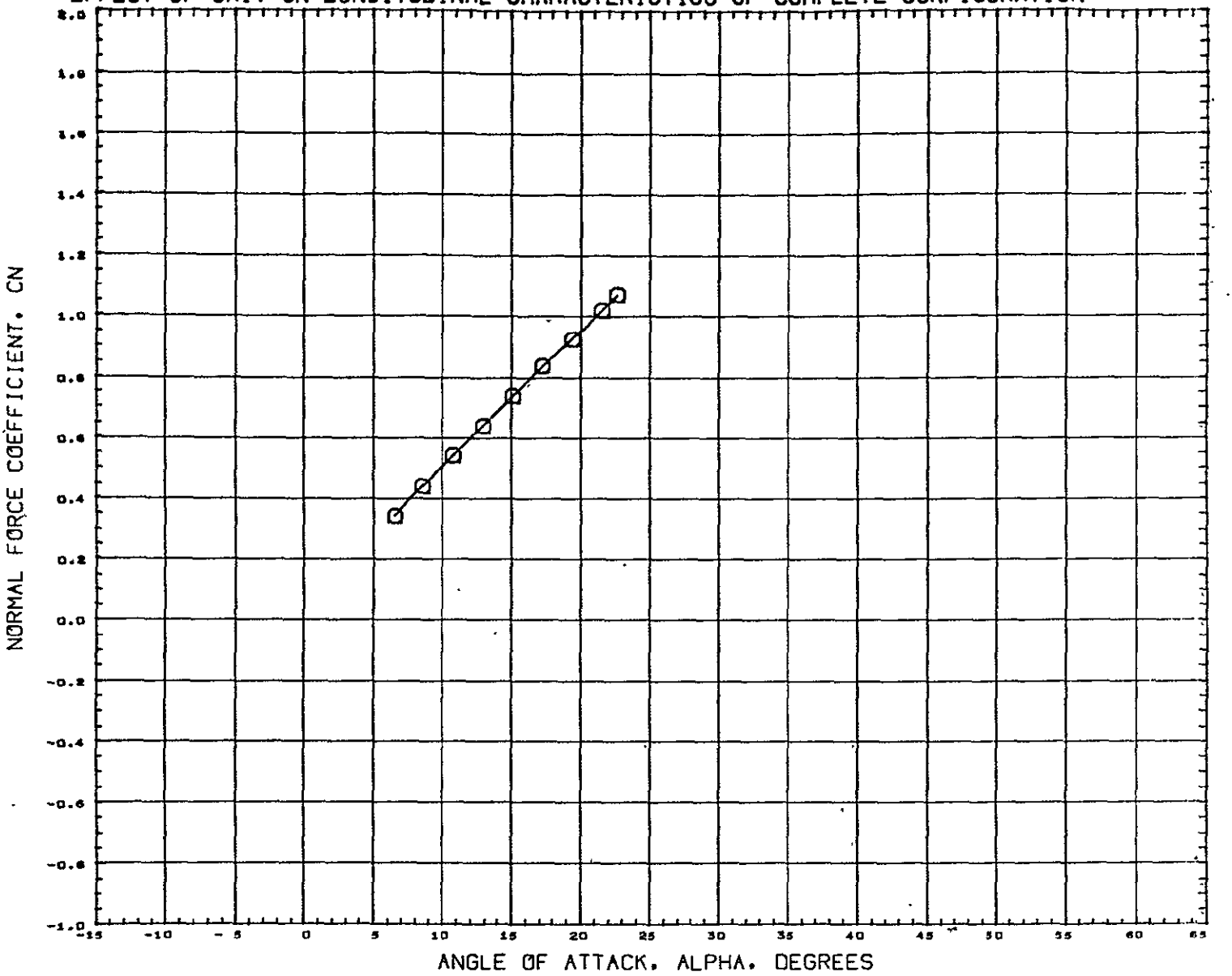
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(E28831)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E28601)		MSFC 481 GD/C BOOSTER B19W14C4AV7

GRIT	BETA	ELEVON	CANARD
	0.000	0.000	0.000
120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

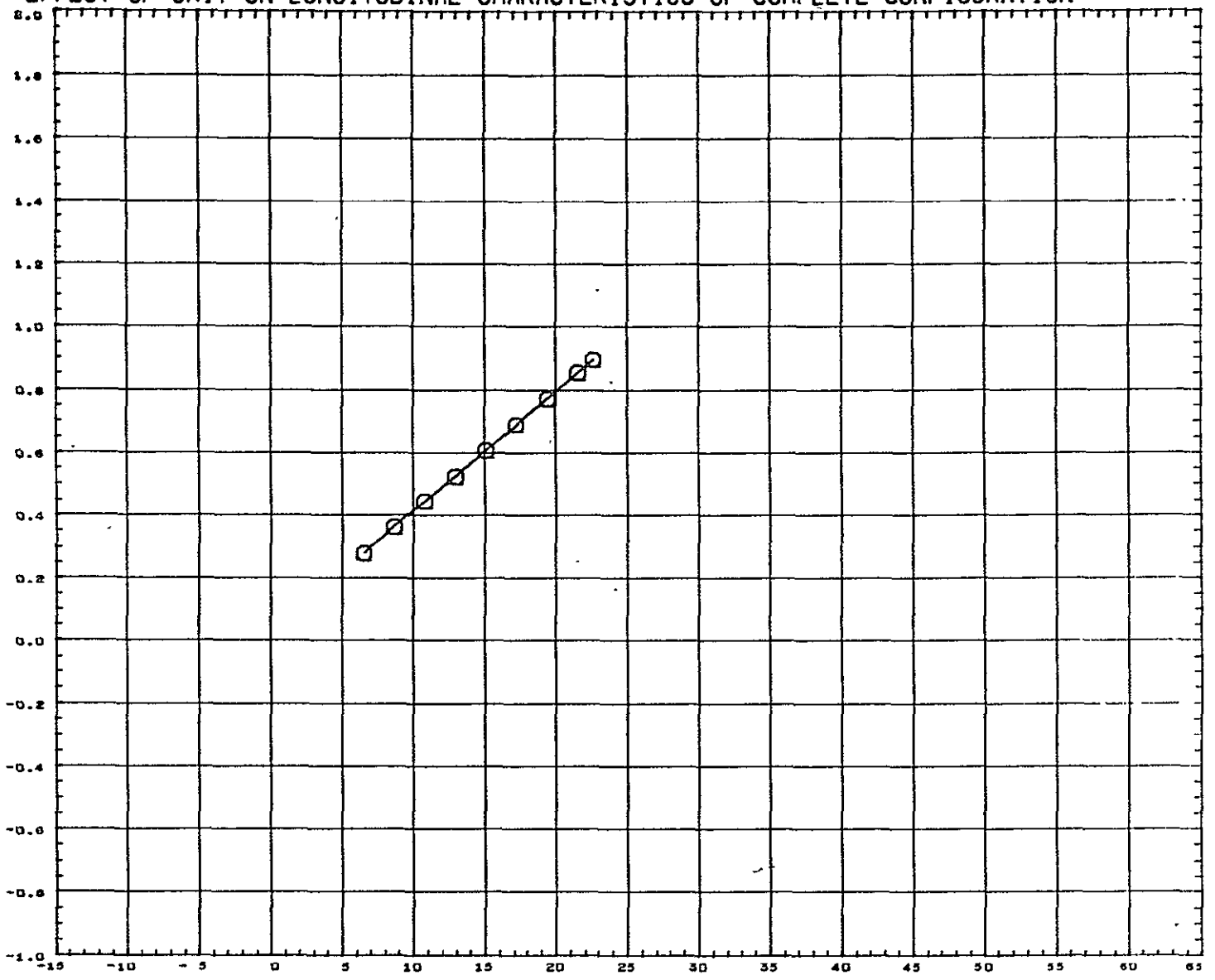


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E26B31)		MSFC461 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E26GD1)		DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.462

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

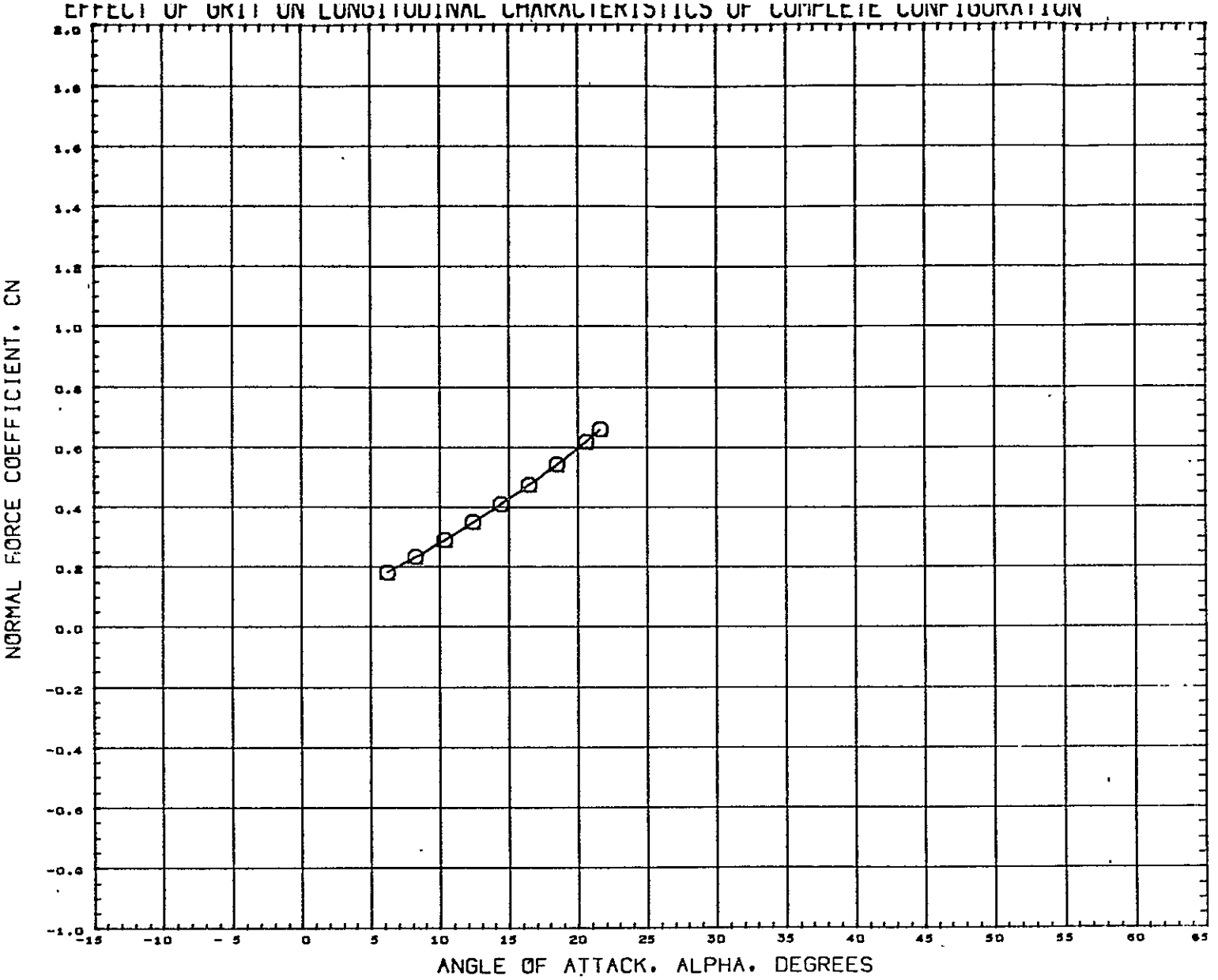


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28831)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

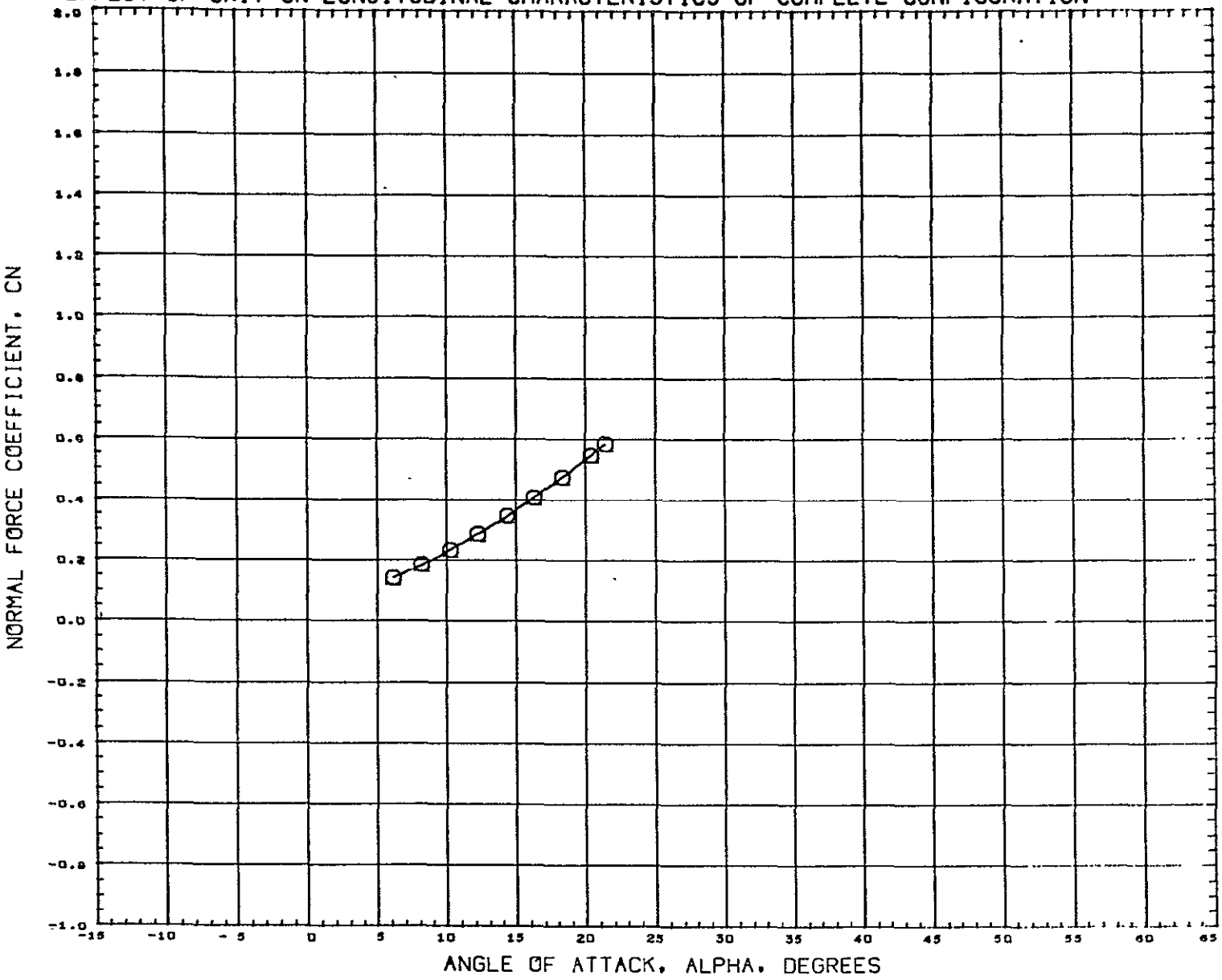


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28831)	○	HSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

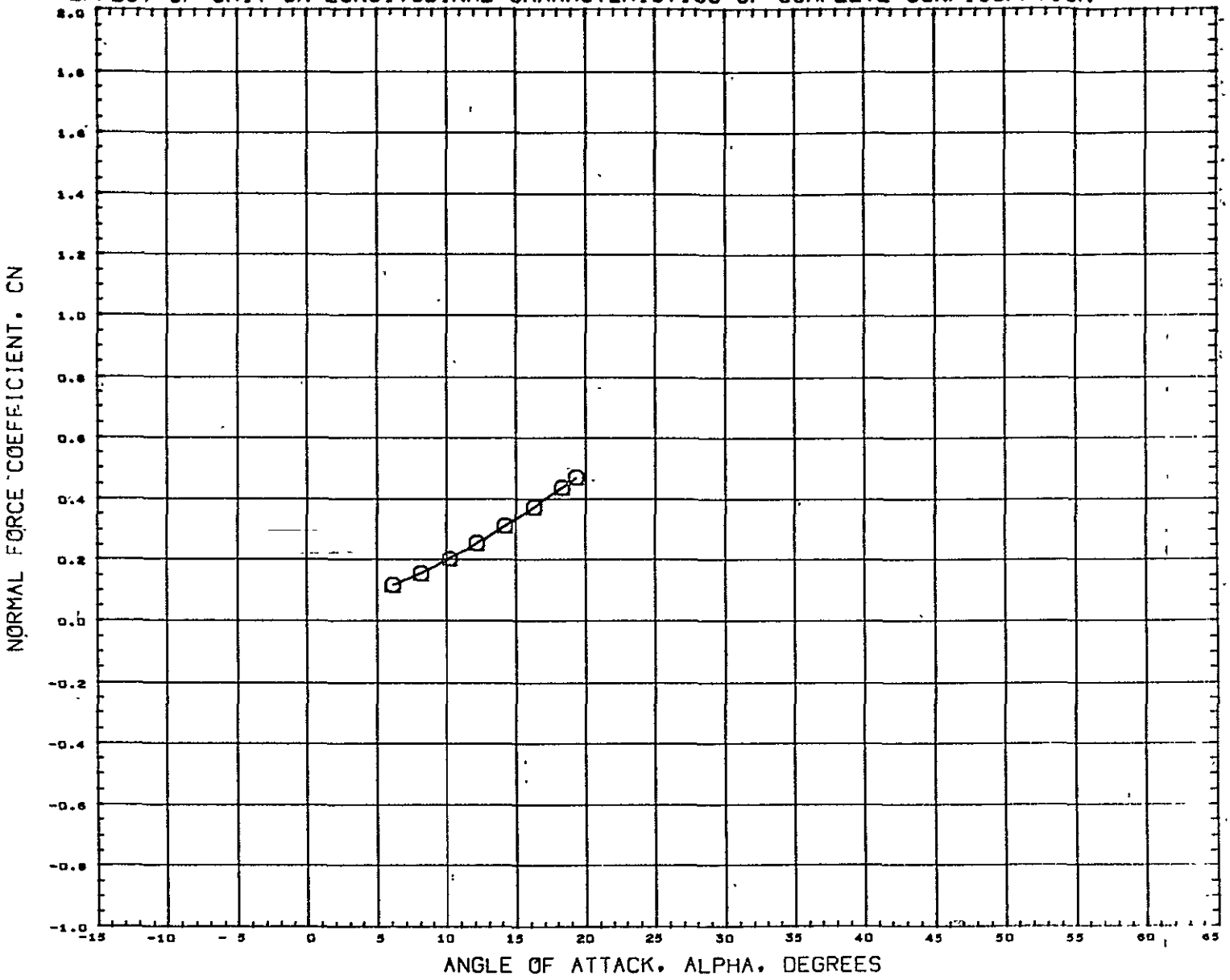


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28831)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

MACH 4.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

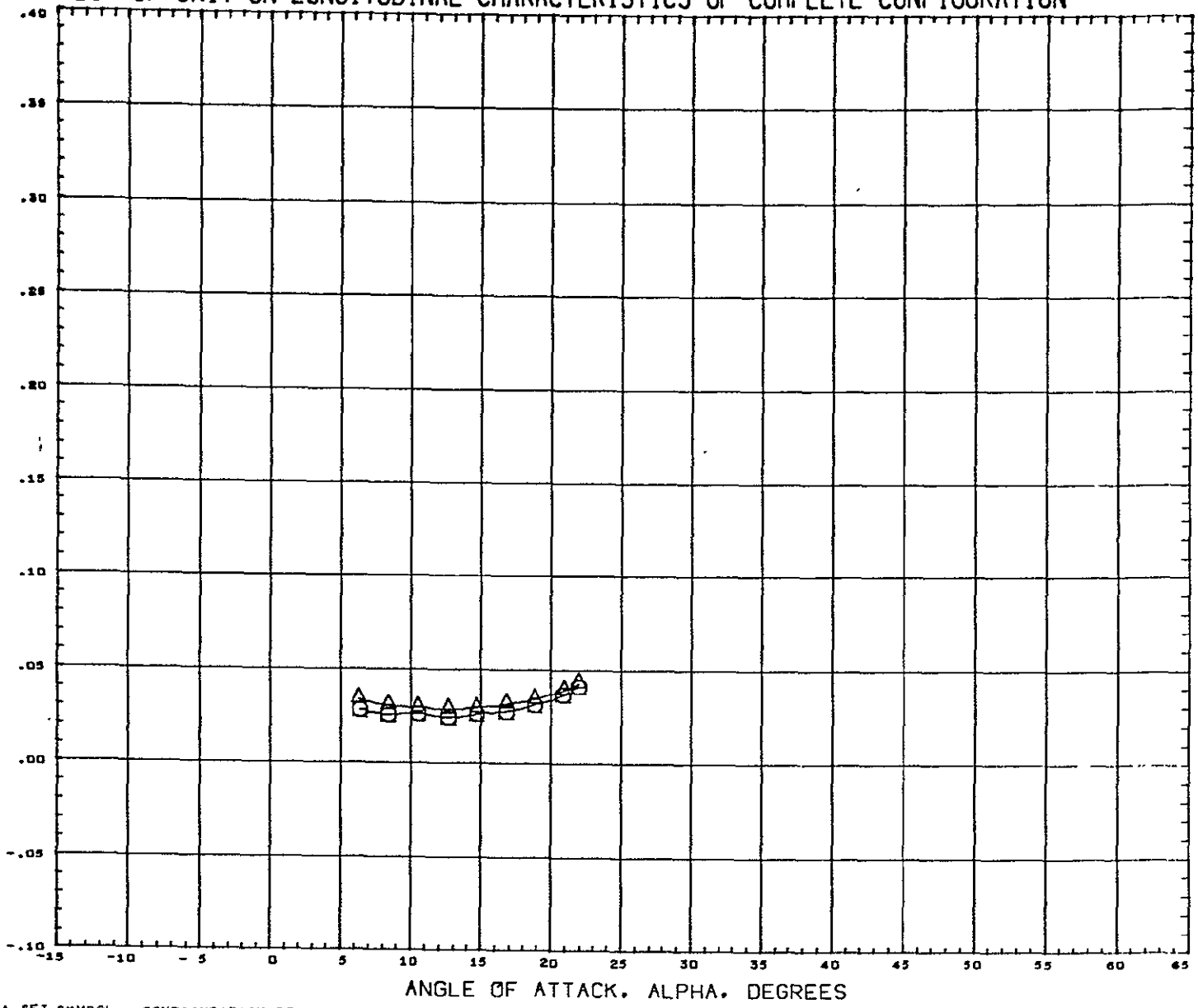


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E26831)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E26601)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION



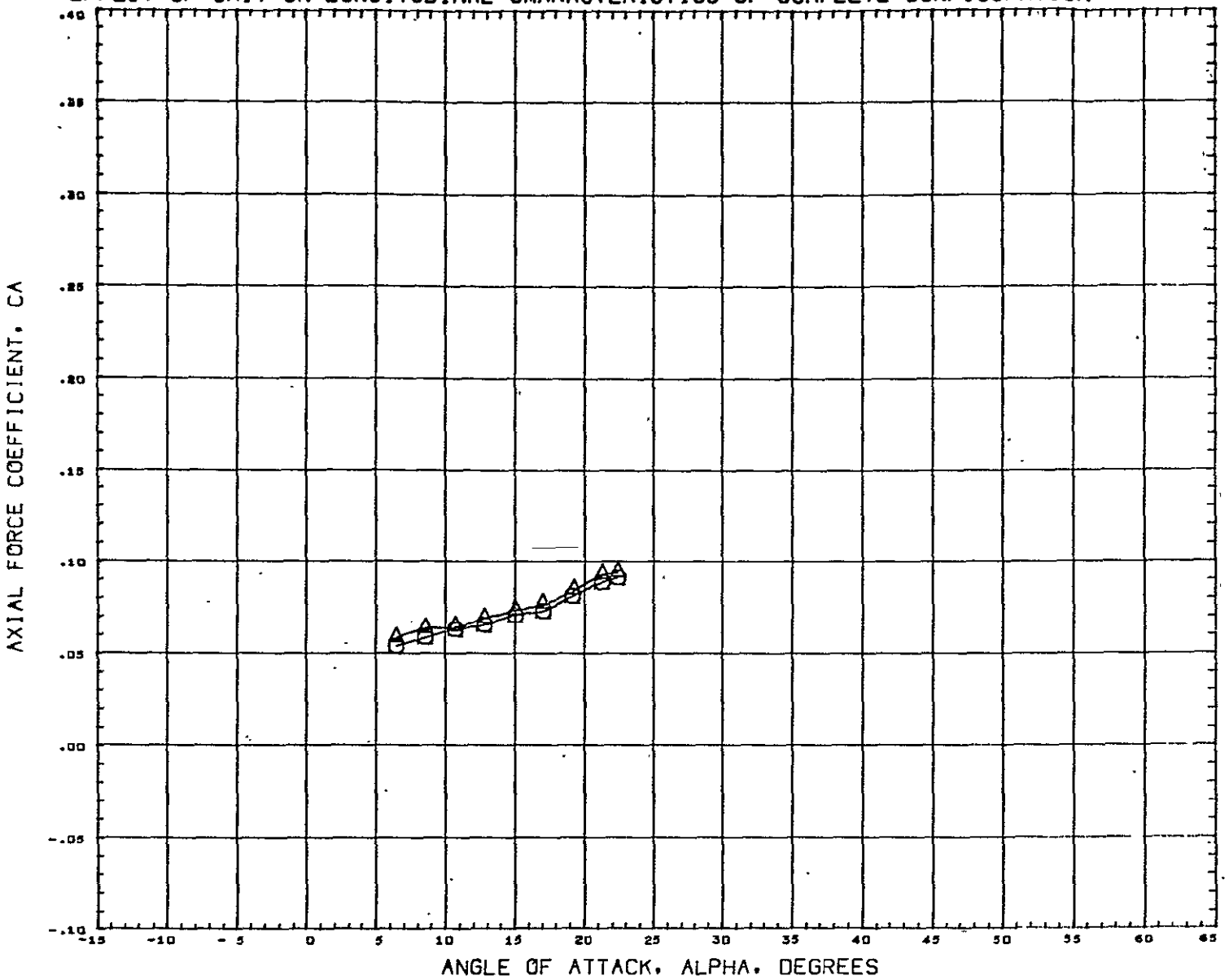
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C28B31)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E26G01)	△	MSFC 481 GD/C BOOSTER B19W14C4AV7

GRIT	BETA	ELEVON	CANARD
	0.000	0.000	0.000
120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

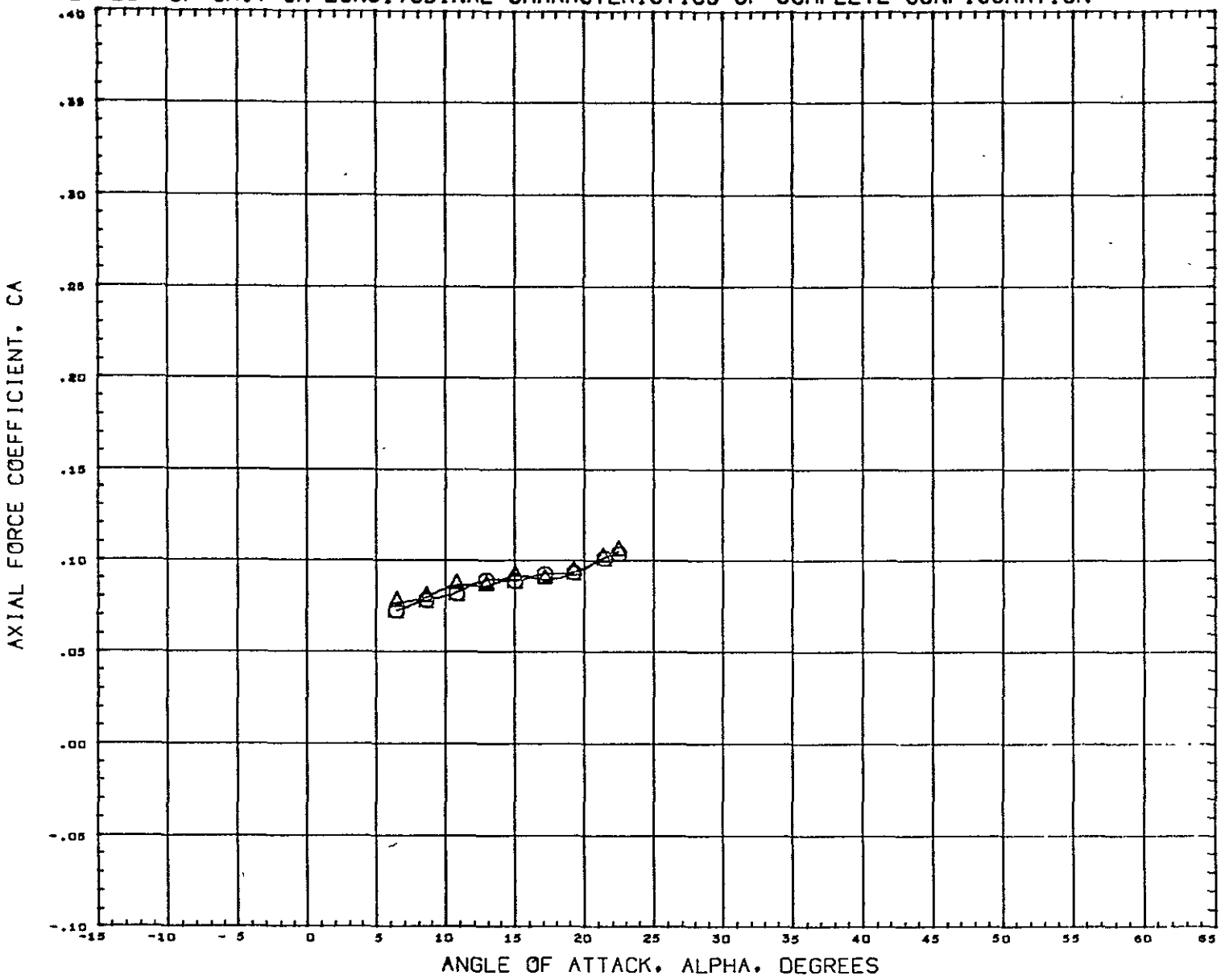


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28831)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)	△	MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.900

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

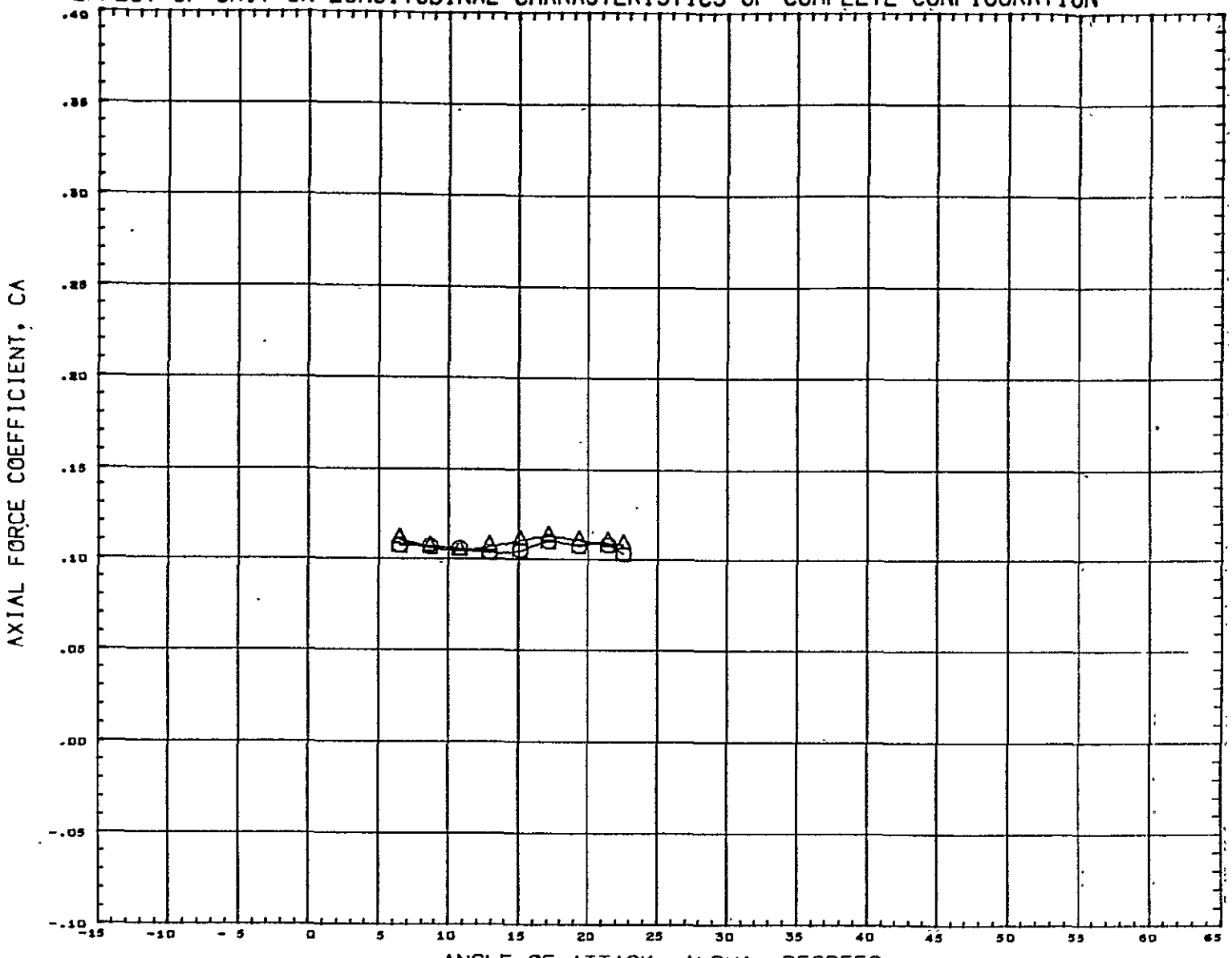


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28B31)	○	M5FC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28GD1)	△	M5FC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

MACH 0.954

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION



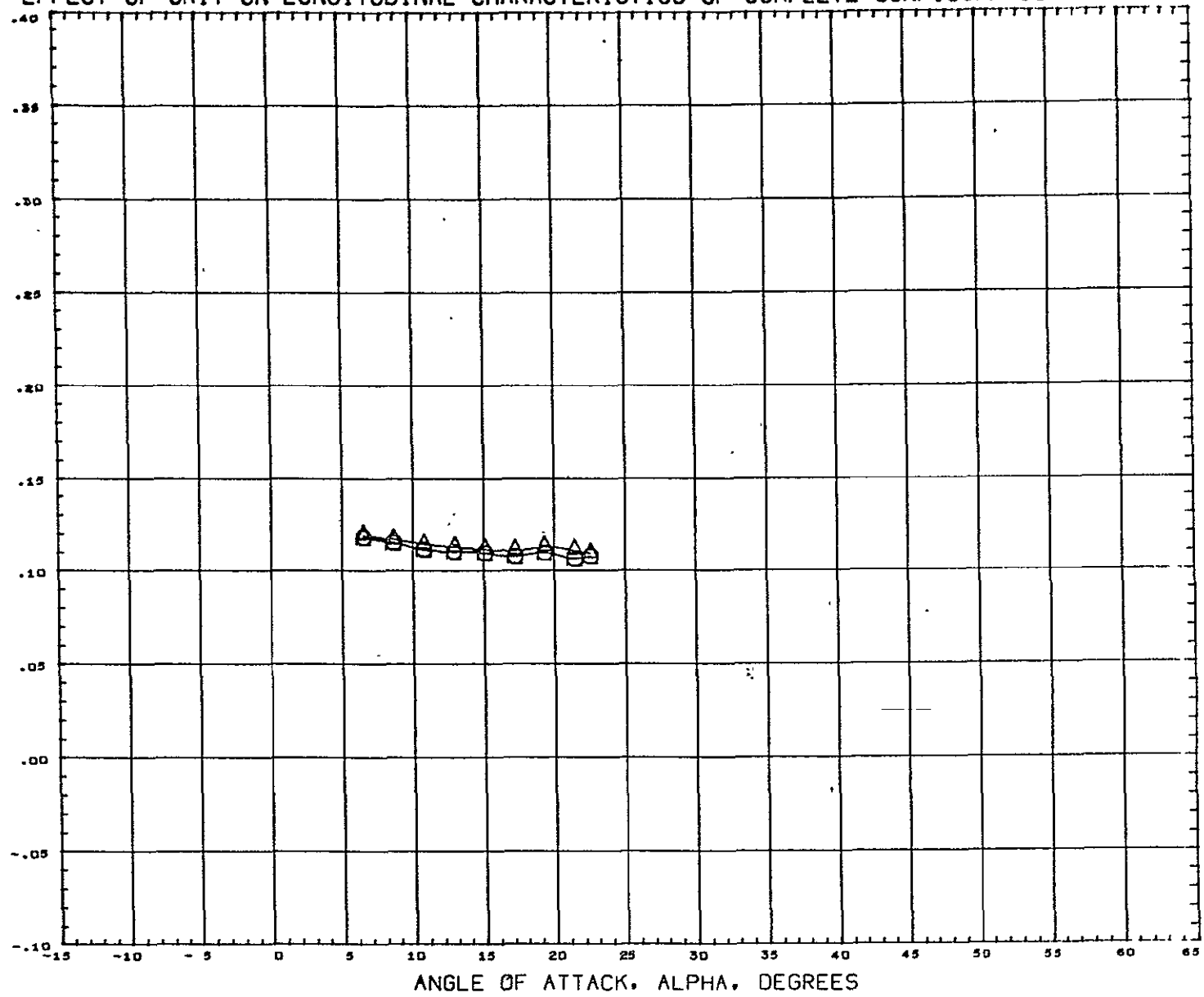
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E28831)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7
(E28GD1)	△	MSFC 461 GD/C BOOSTER B19W14C4AV7

GRIT	BETA	ELEVON	CANARD
	0.000	0.000	0.000
120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

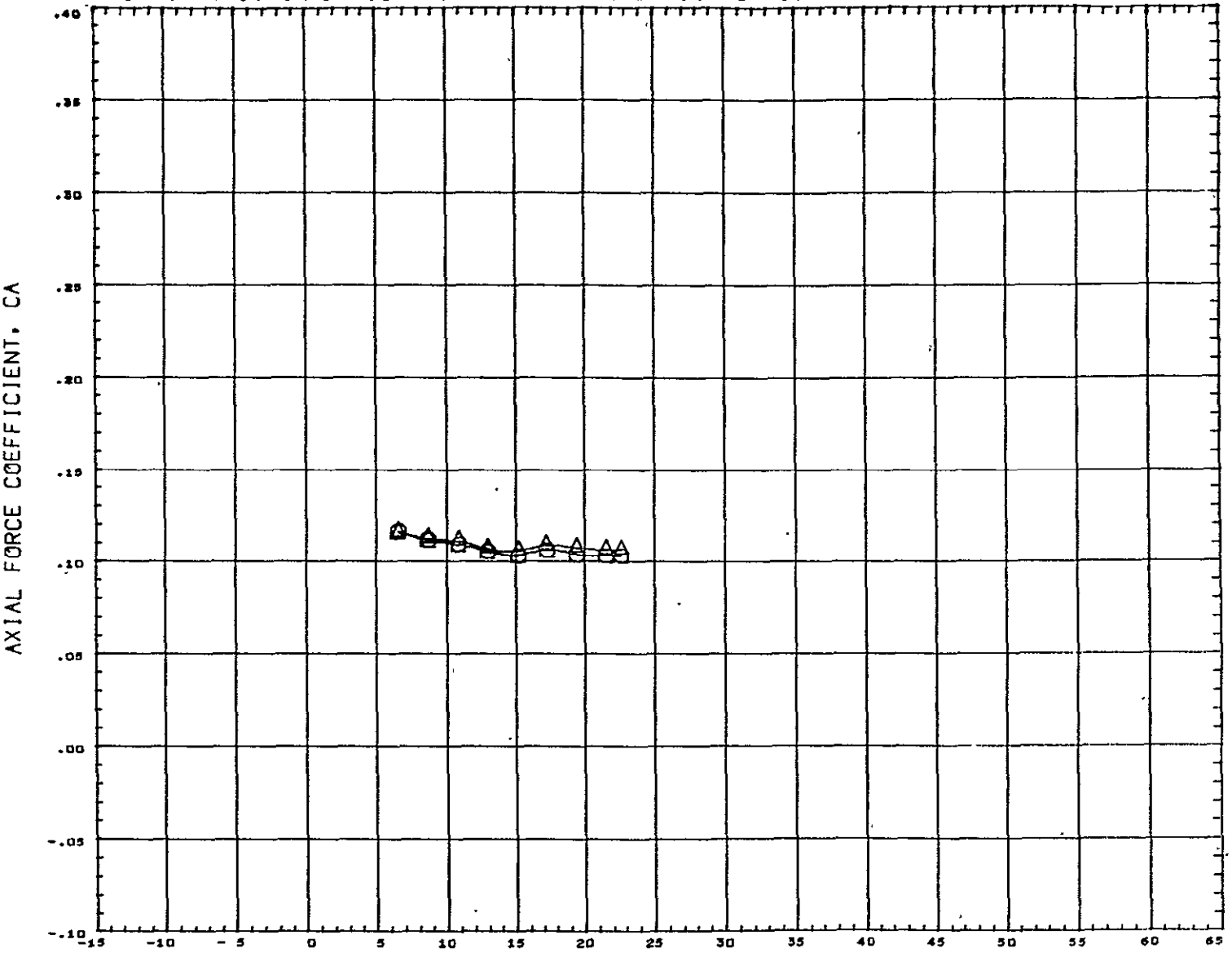


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28B31)		MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)		MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

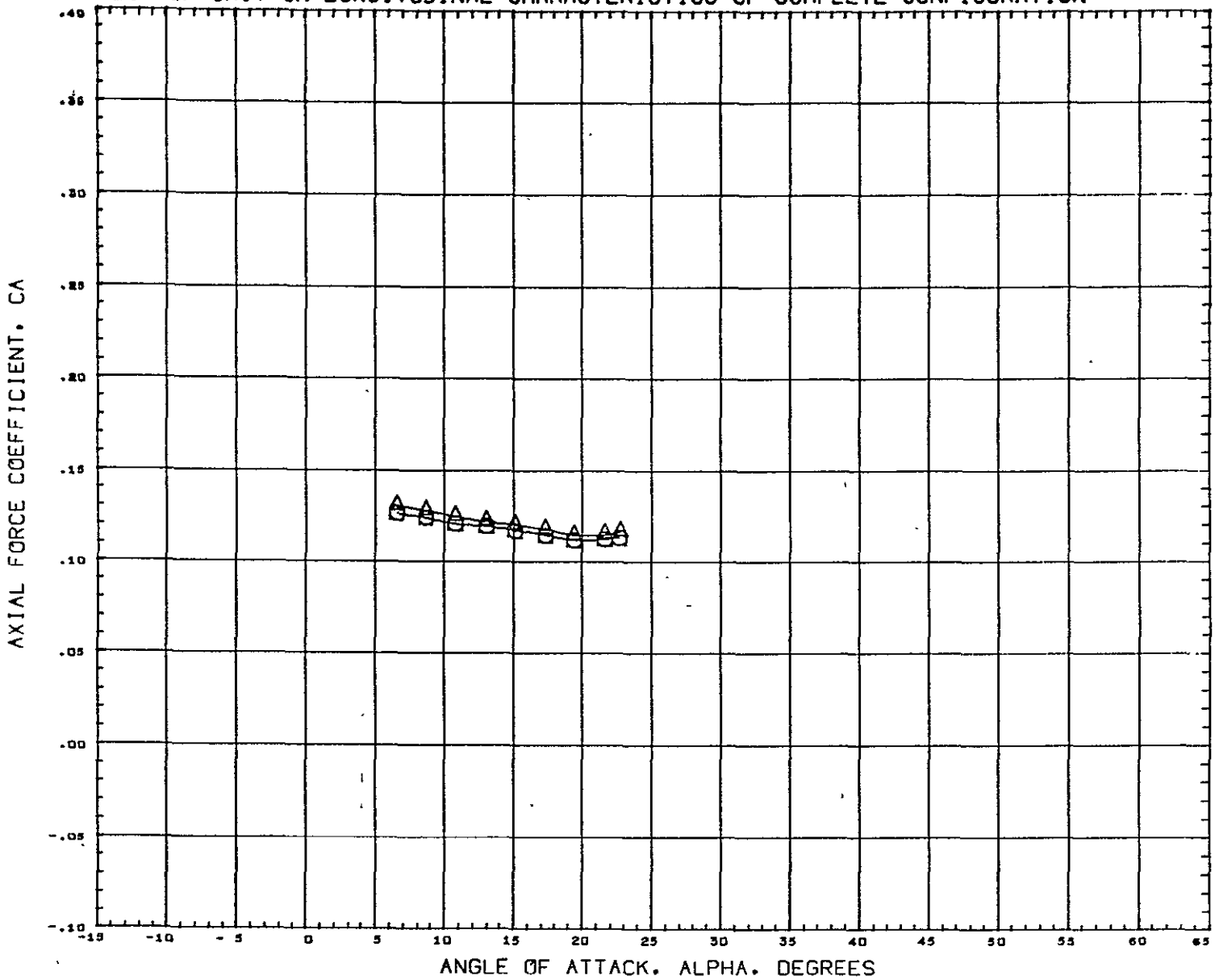


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28B31)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28GU1)	△	MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.105

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION



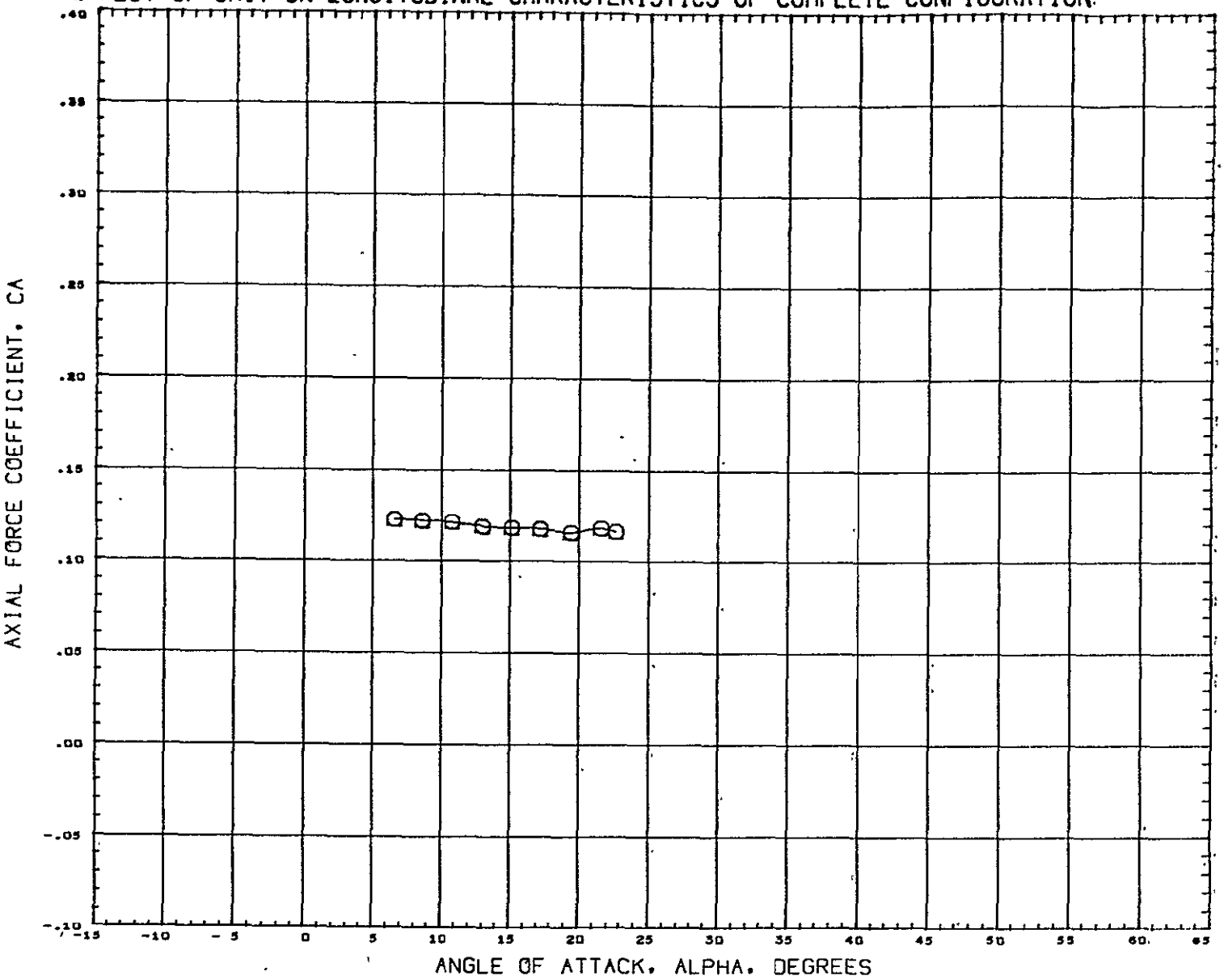
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E26831)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E28G01)		MSFC 481 GD/C BOOSTER B19W14C4AV7

GRIT	BETA	ELEVON	CANARD
	0.000	0.000	0.000
120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION.



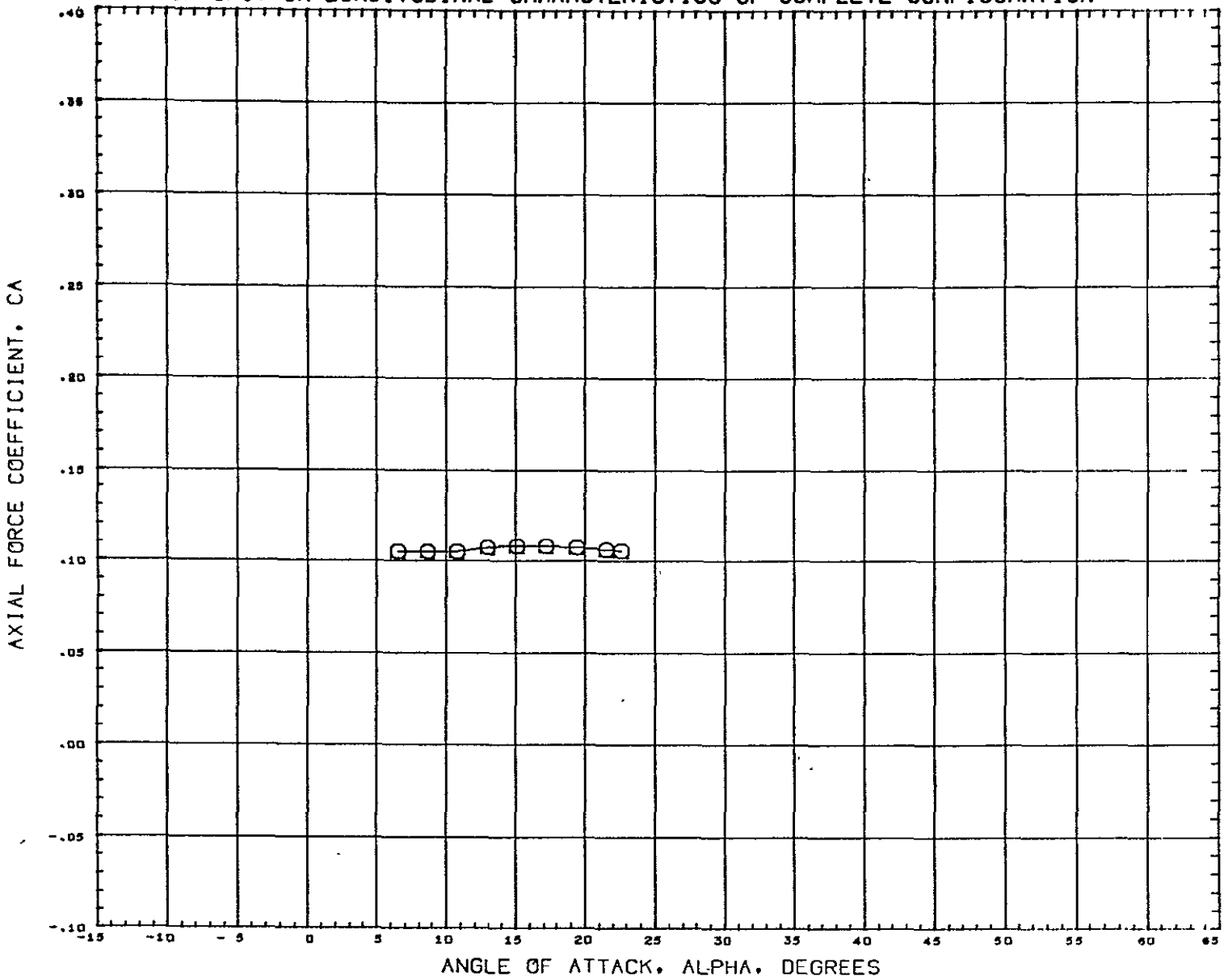
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E28831)	⍜	MSFC461 GO/C(BOOSTER)B19W14C4AV7
(E28G01)	⍙	DATA NOT AVAILABLE FOR ALL CONDITIONS

GRIT	BETA	ELEVON	CANARD
	0.000	0.000	0.000
120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.462

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION



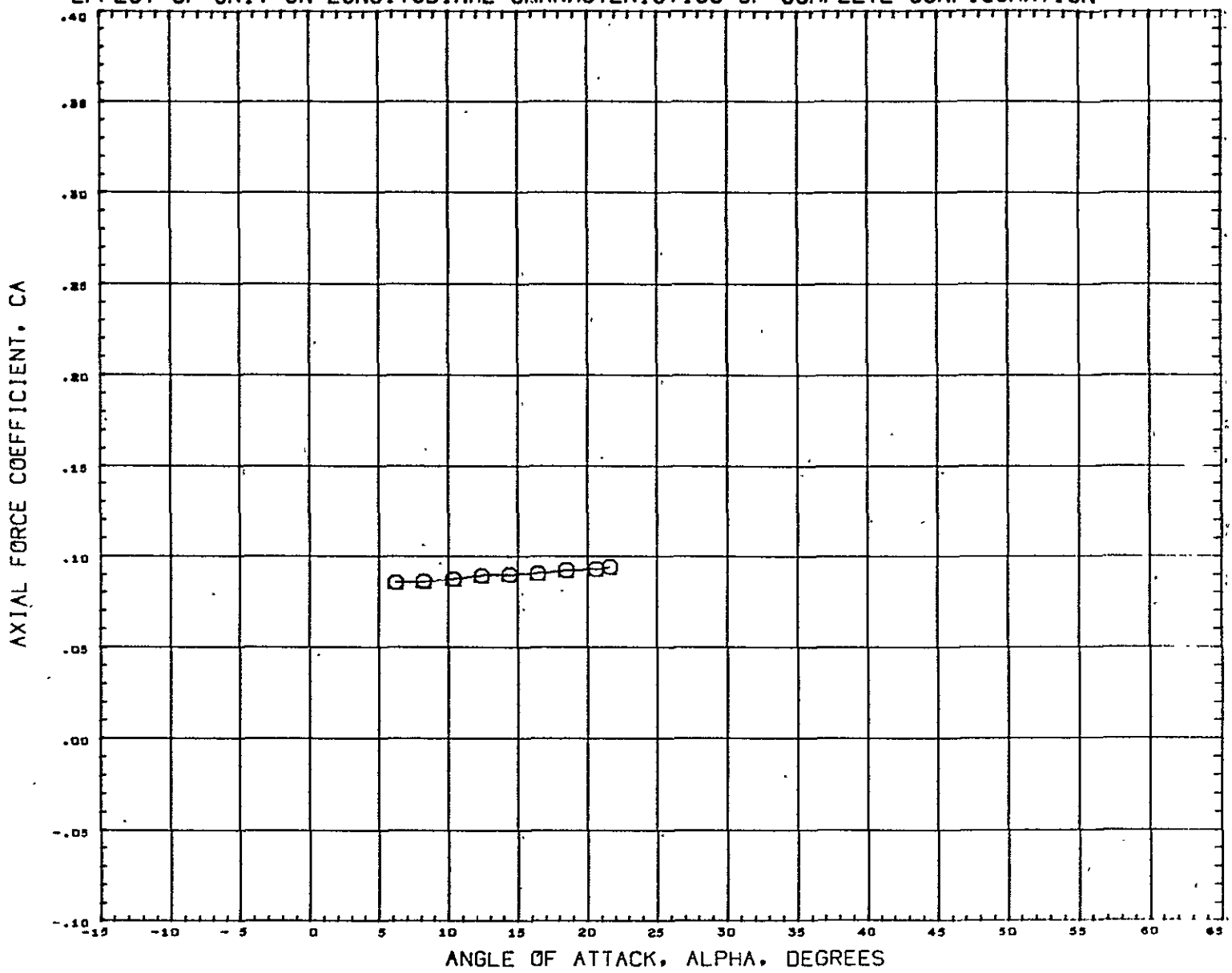
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E26B31)		MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E26G01)		DATA NOT AVAILABLE FOR ALL CONDITIONS

GRIT	BETA	ELEVON	CANARD
	0.000	0.000	0.000
120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

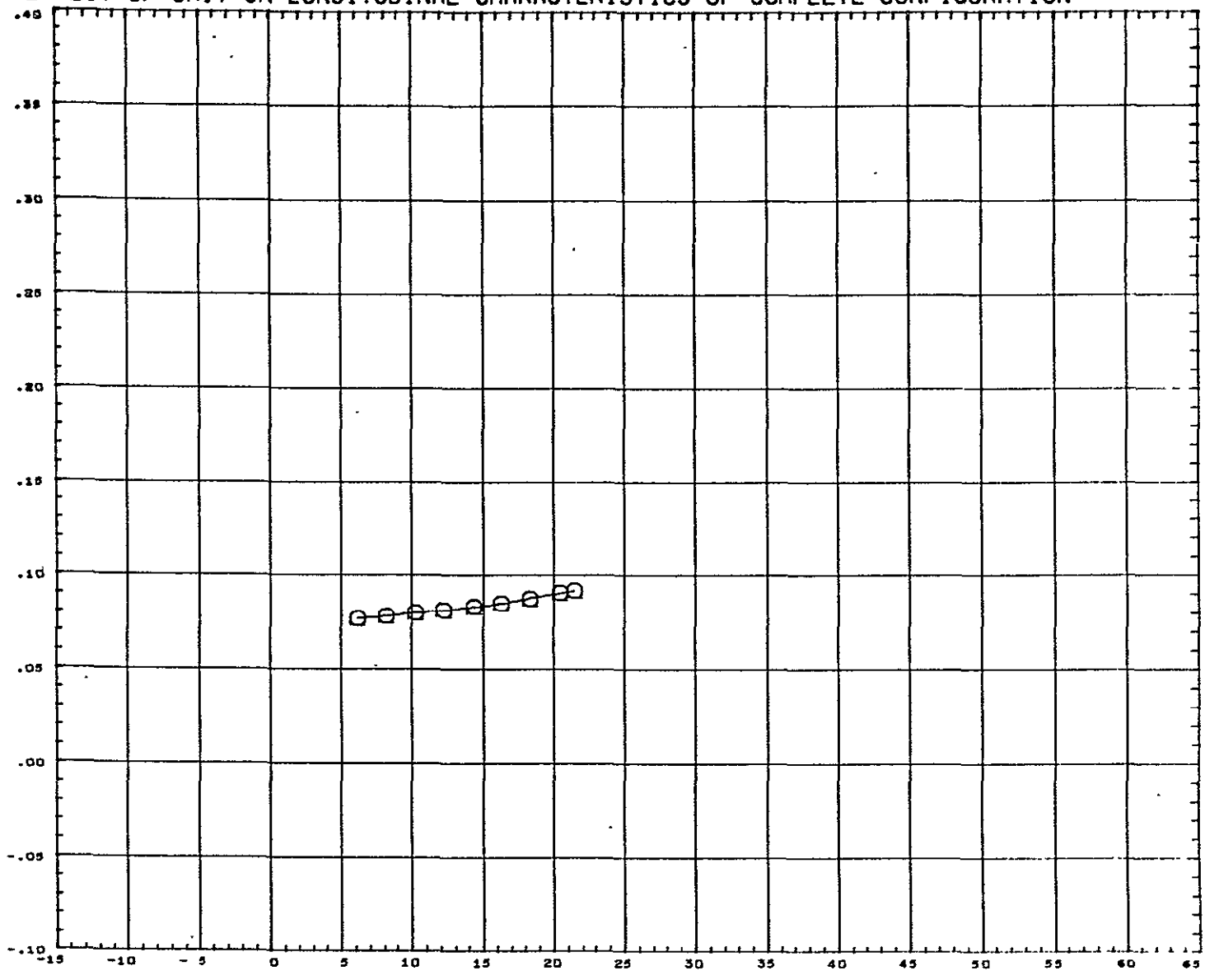


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28B31)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

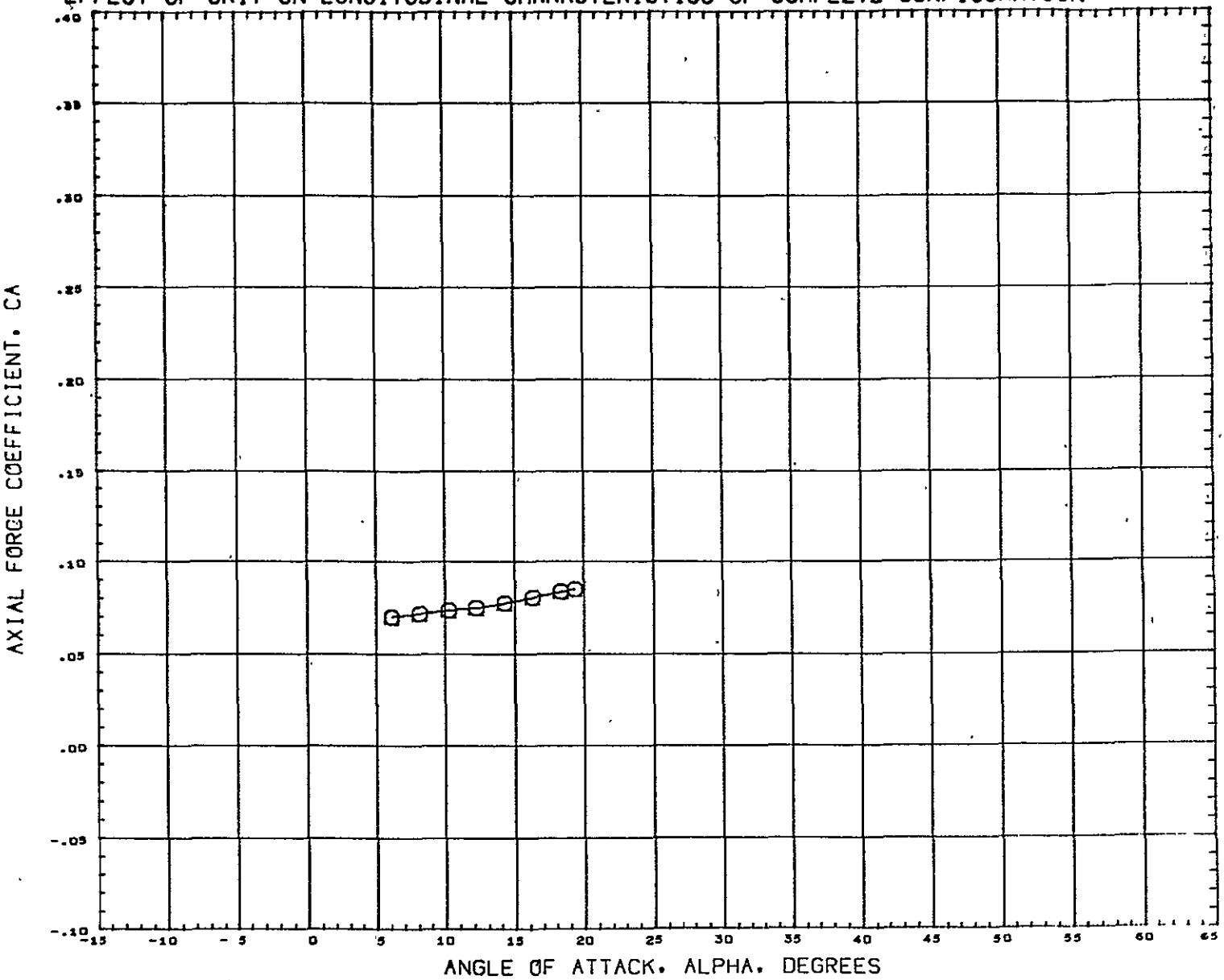


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E26B51)		HSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E26G01)		DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.000

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

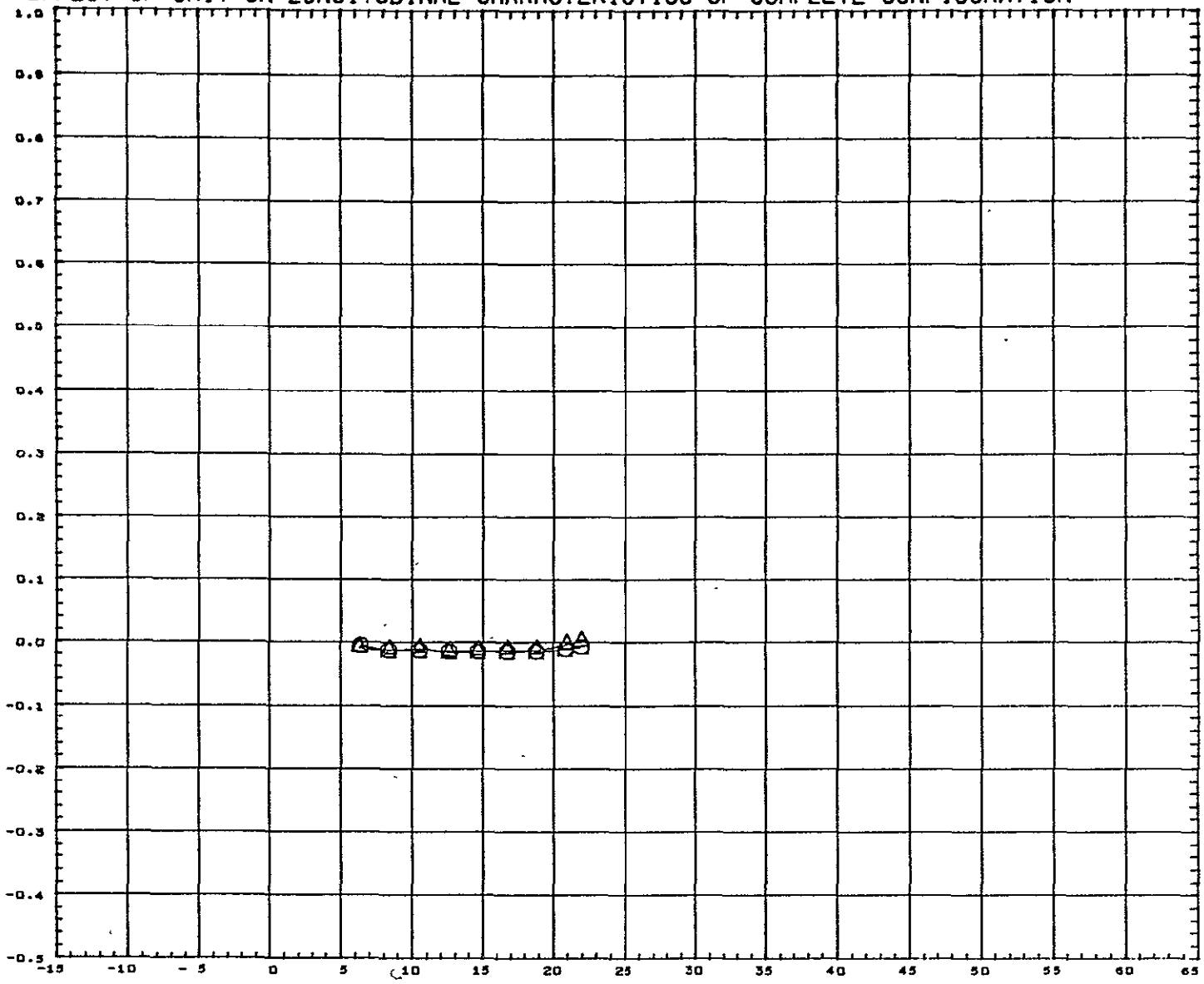


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28B31)	○	MSFC481 OD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

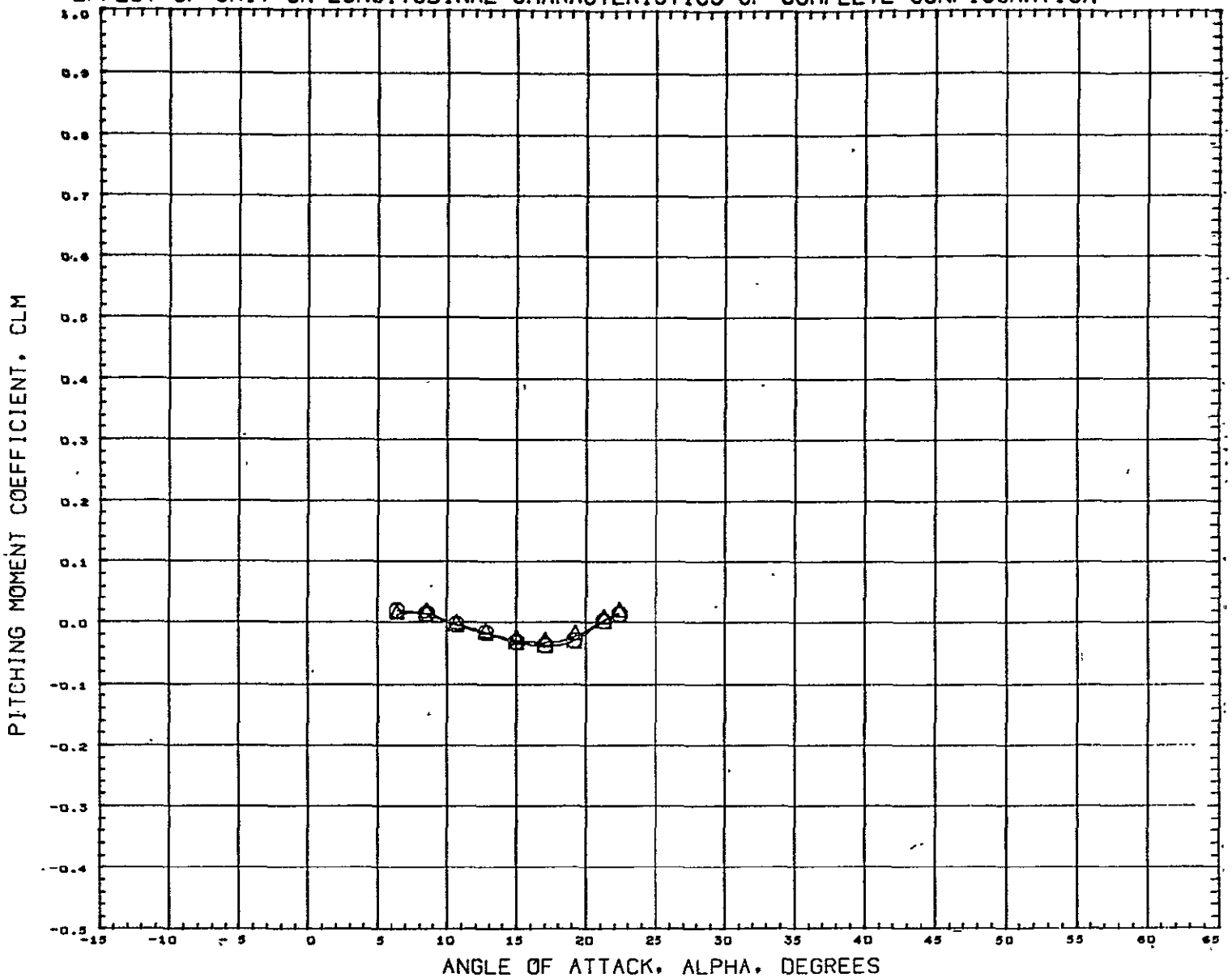


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E26831)		MSFC461 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E26G01)		MSFC 461 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

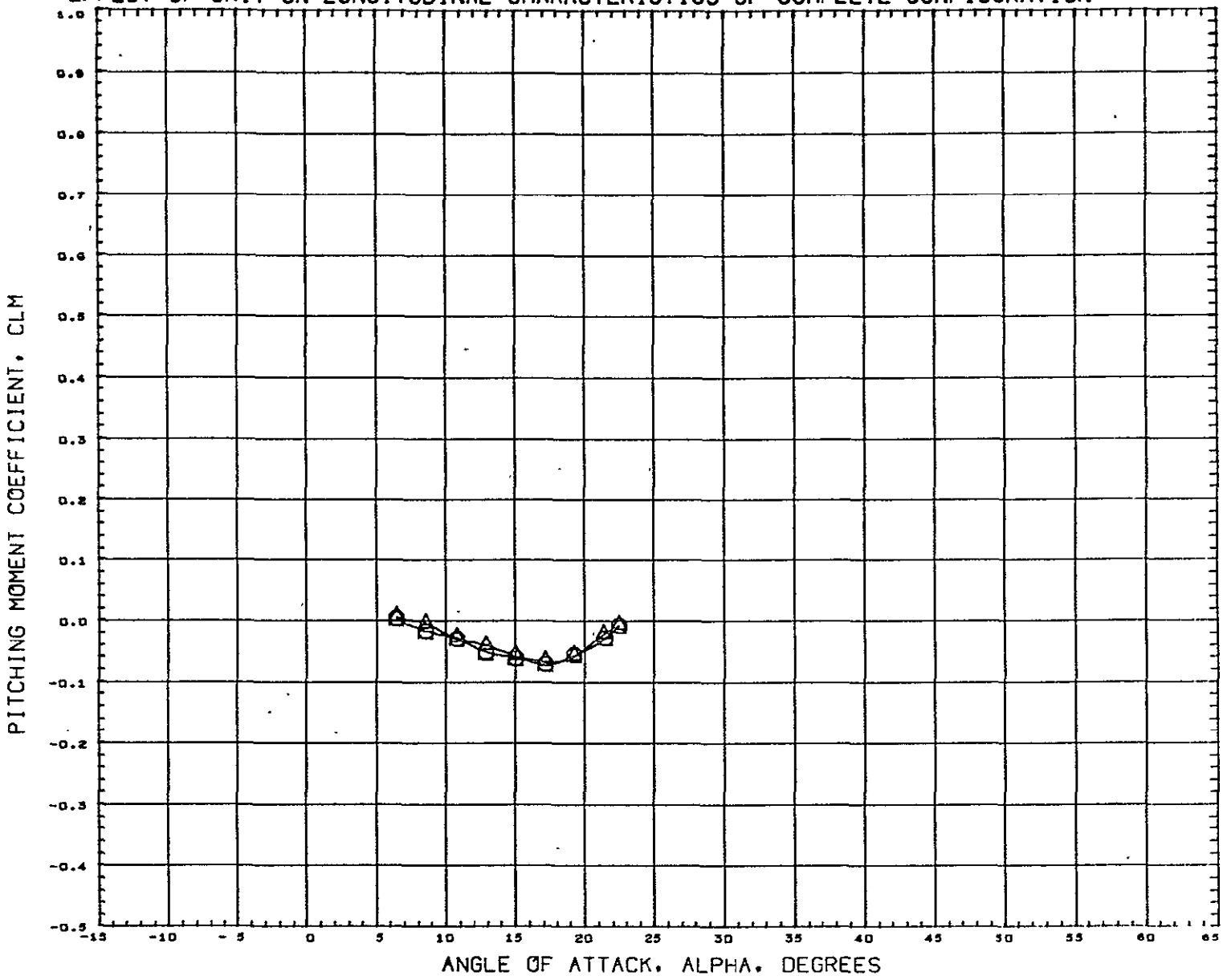


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28831)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28C01)	△	MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.900

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

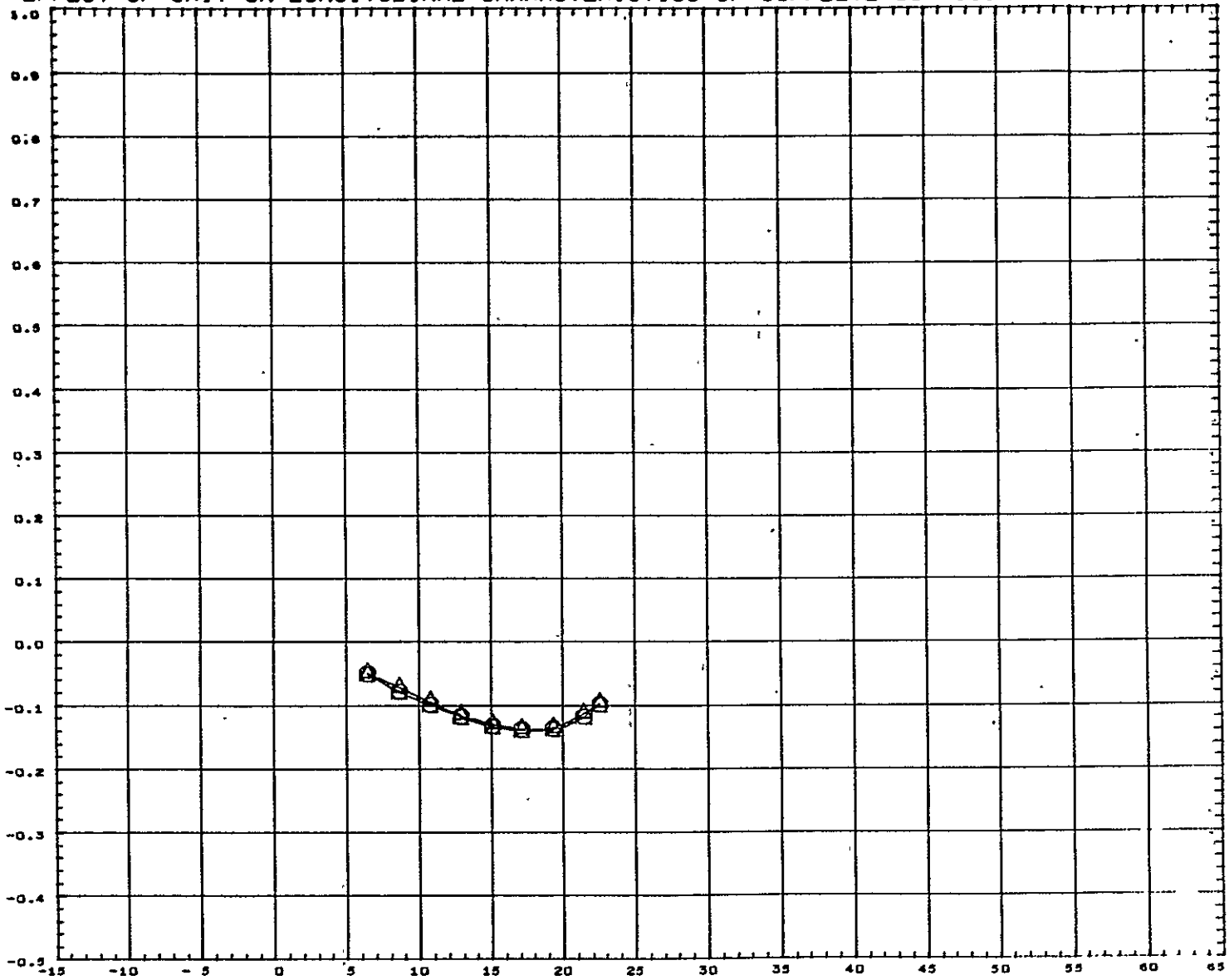


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E26B31)		MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)		MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.954

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

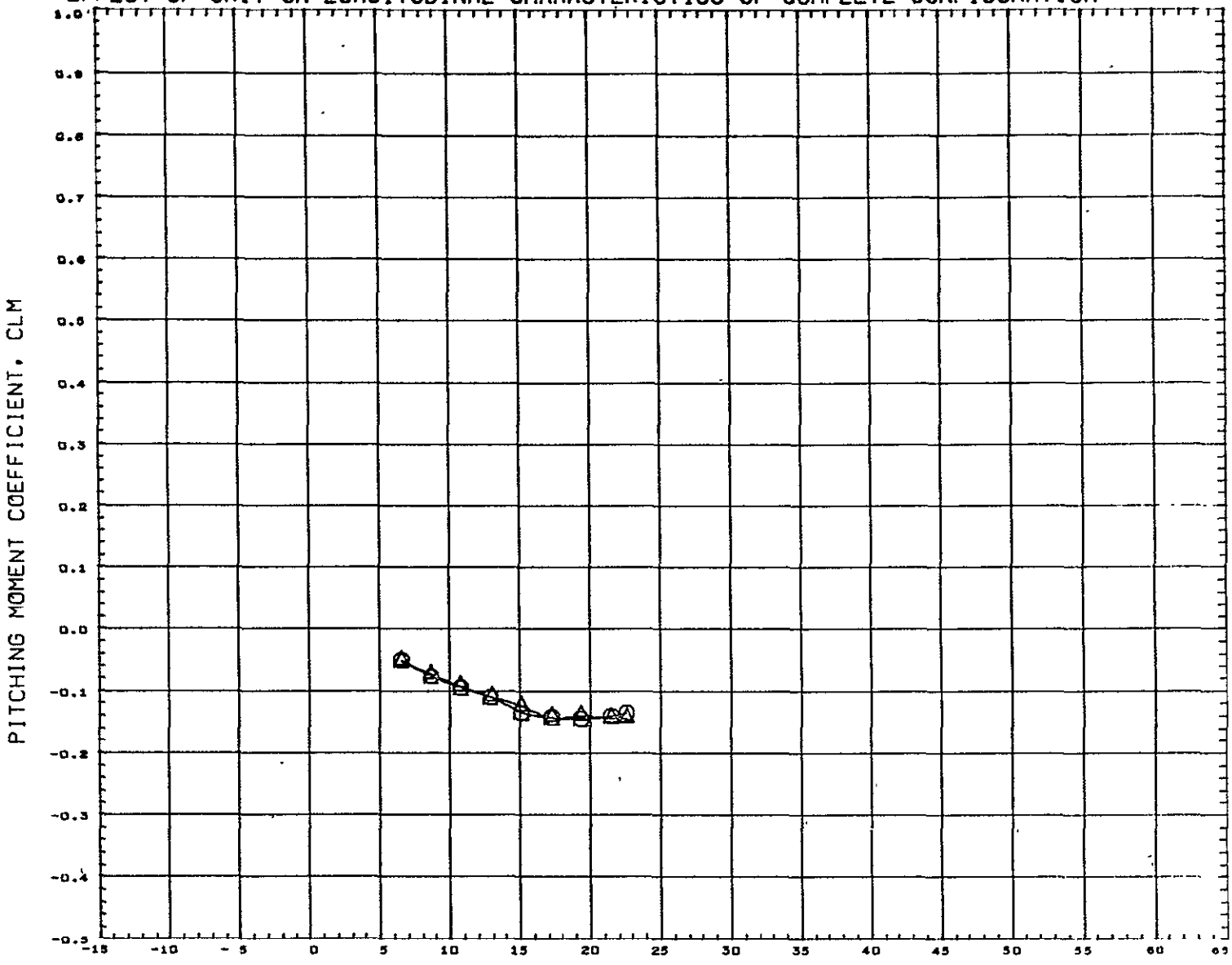


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28831)		MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)	△	MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

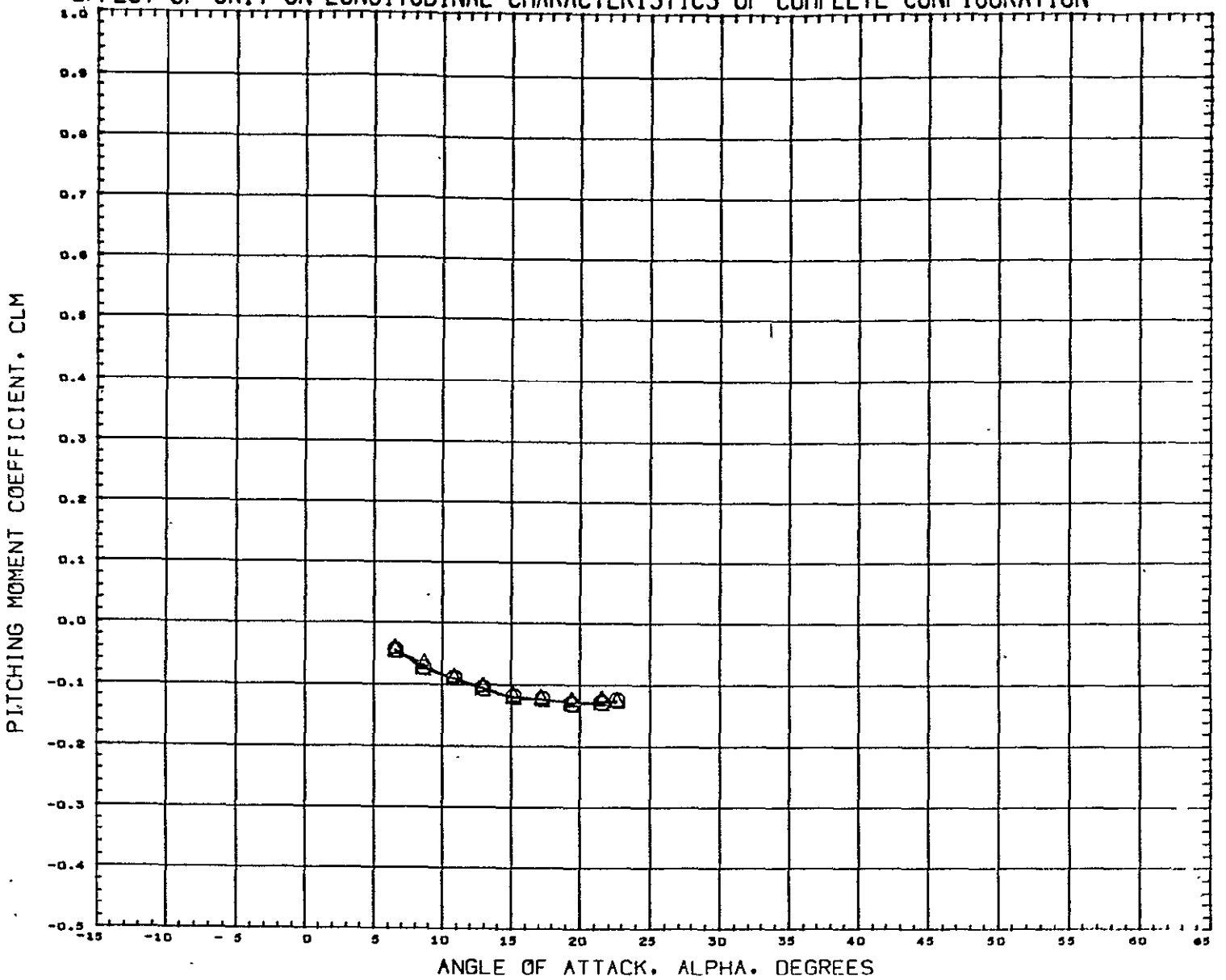


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E26B31)		HSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E26GD1)		HSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

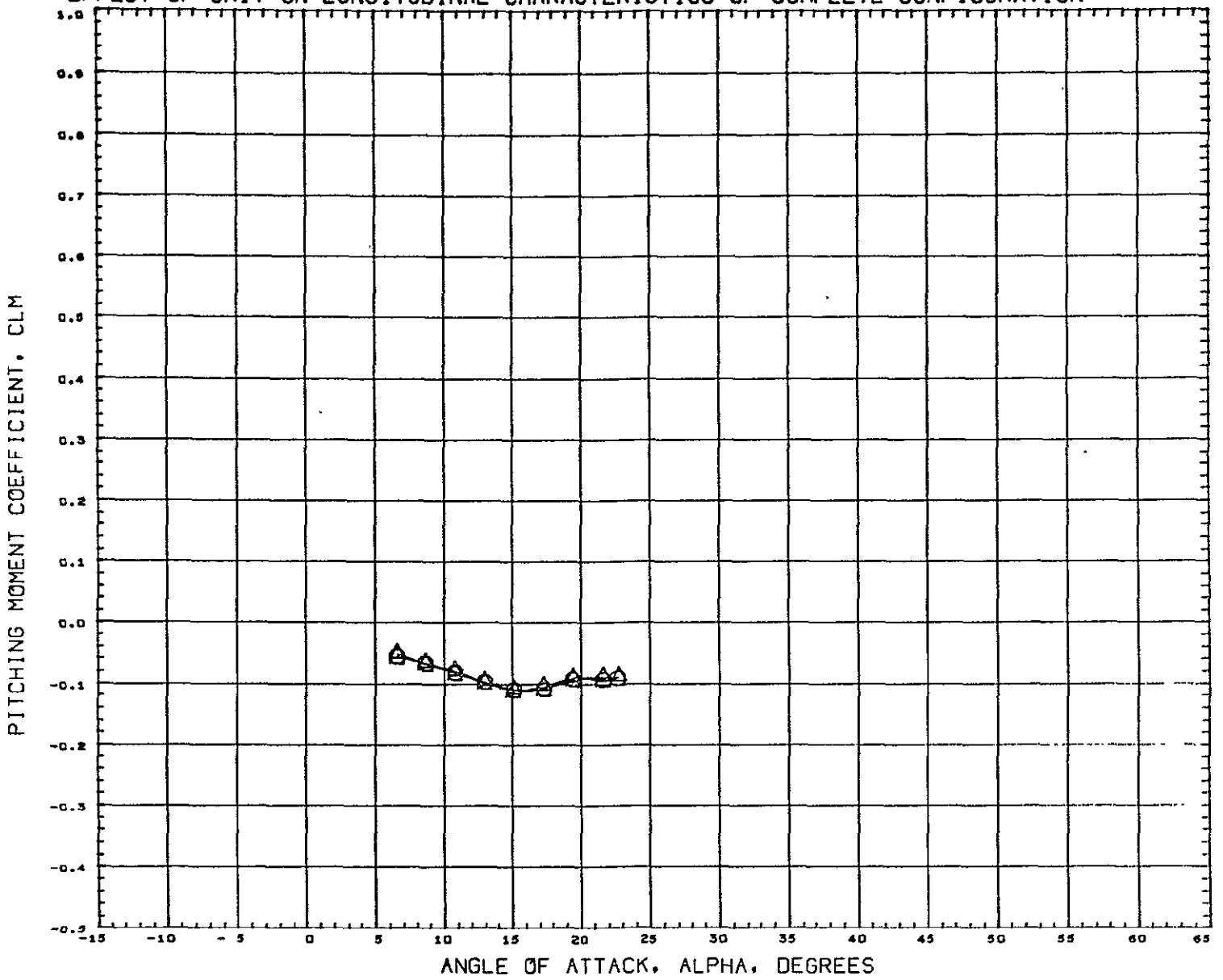


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E20831)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E20G01)	△	MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

MACH 1.105

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

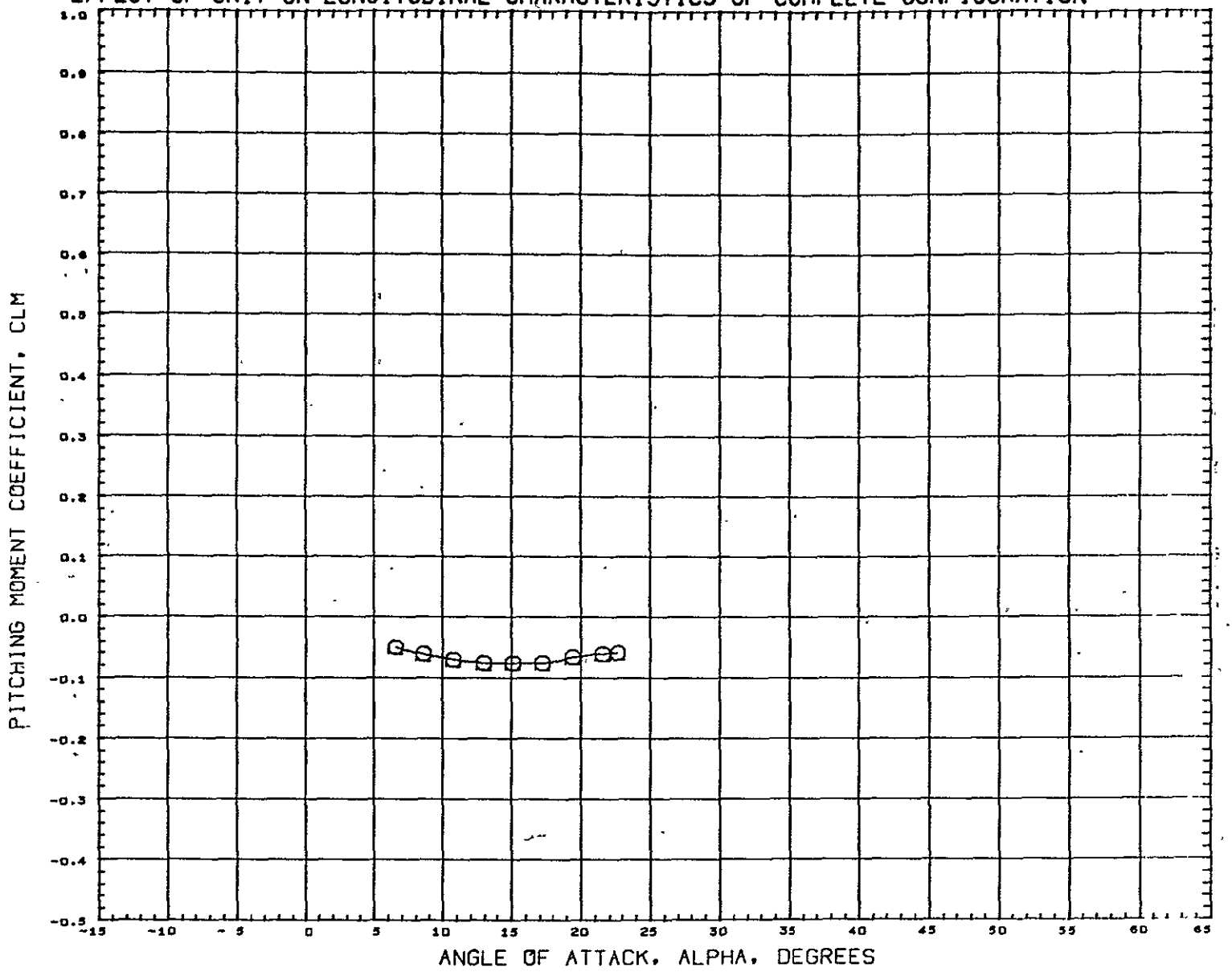


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28831)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)	△	MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

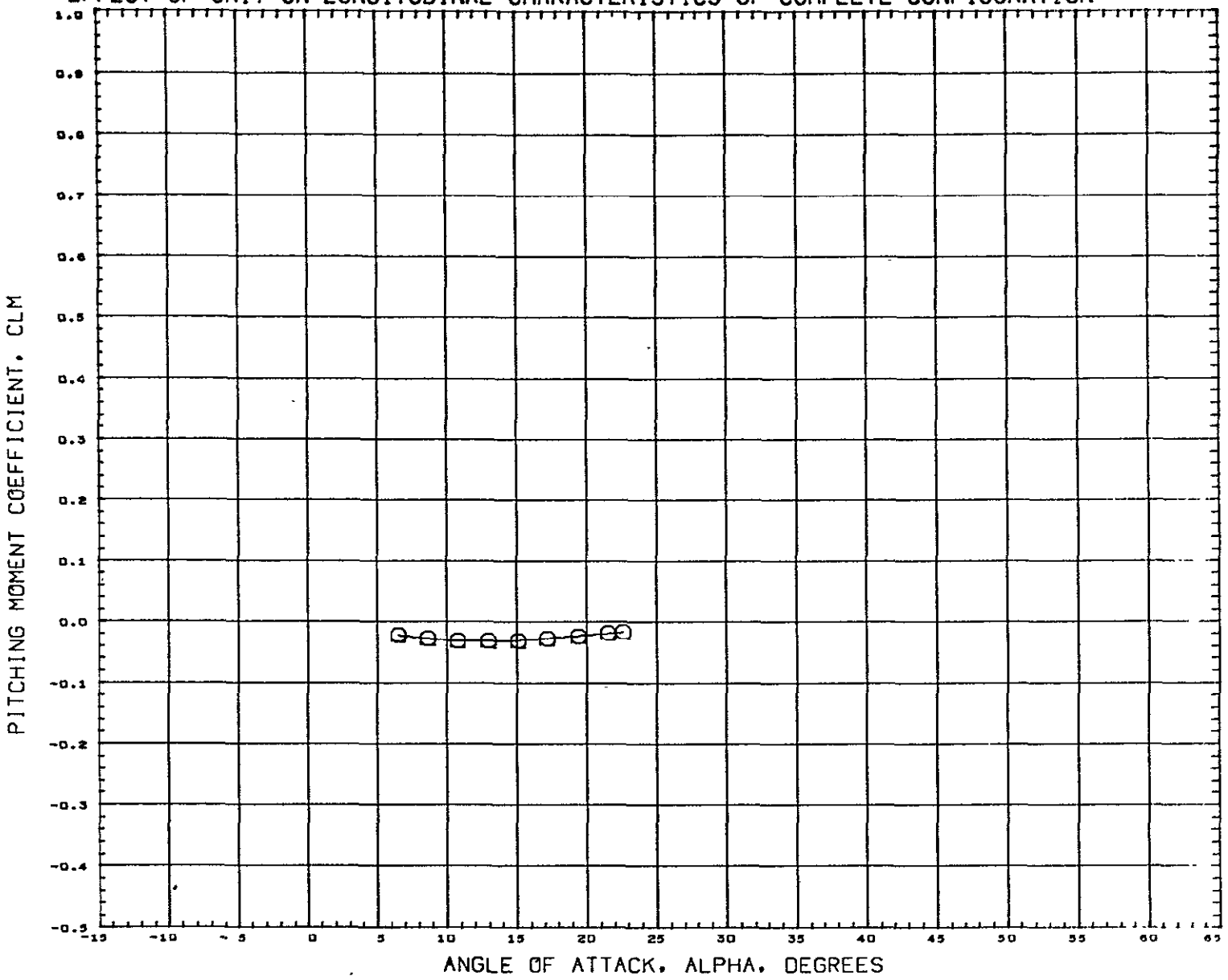


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28B31)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.462

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

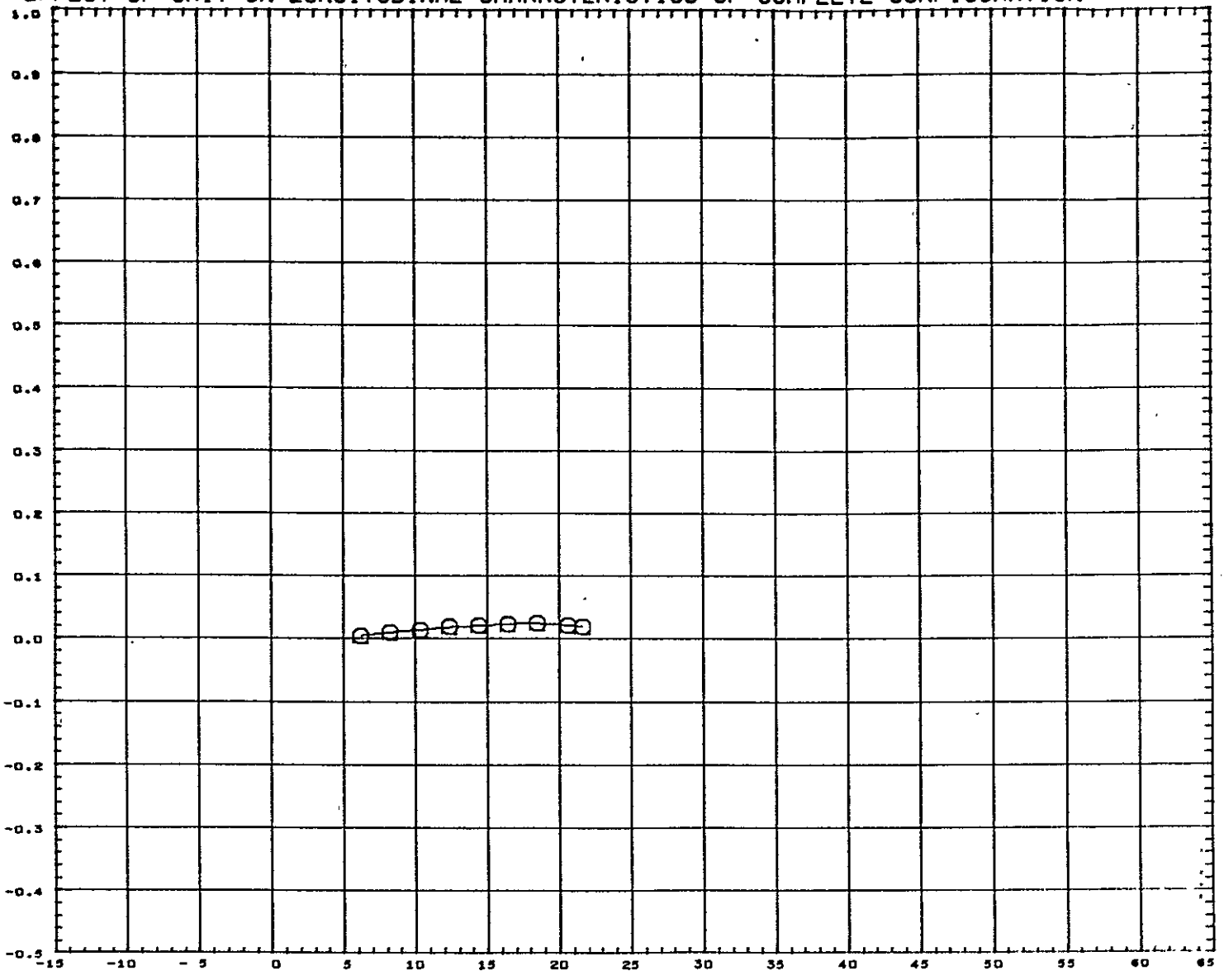


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E26B51)		MSFC481 CD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E26G01)		DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.958

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

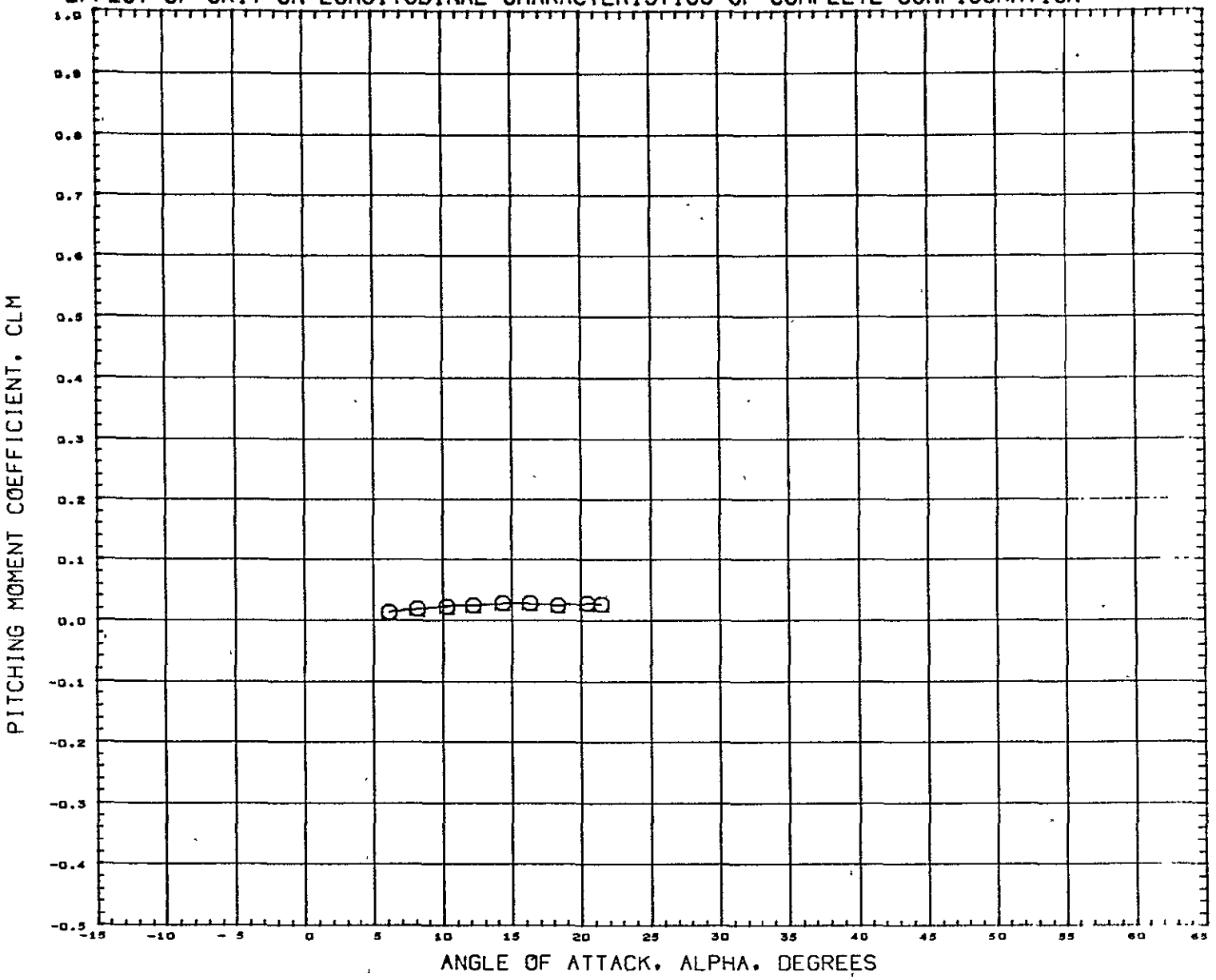


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28831)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

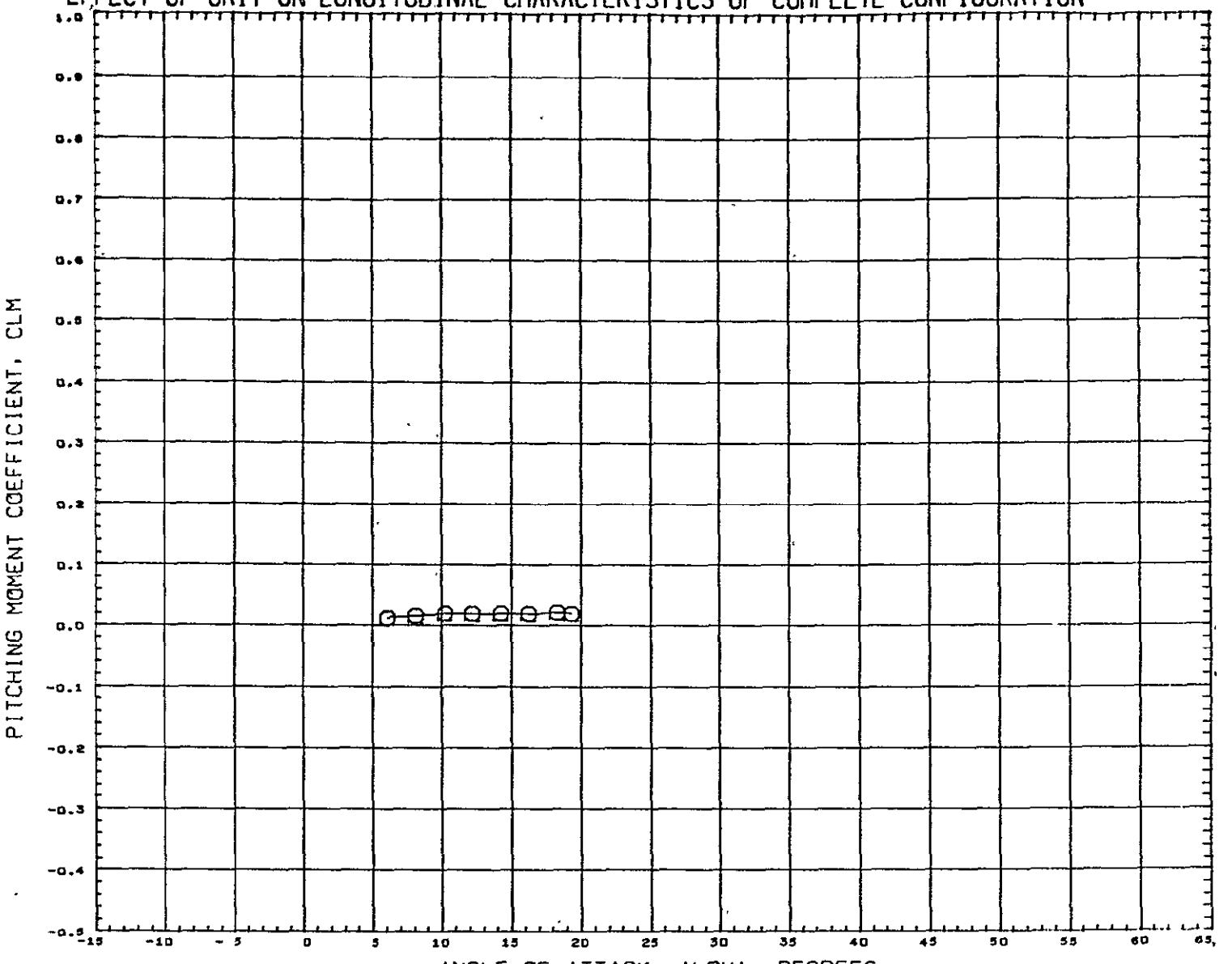


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28831)		MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28601)		DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	5.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.000

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

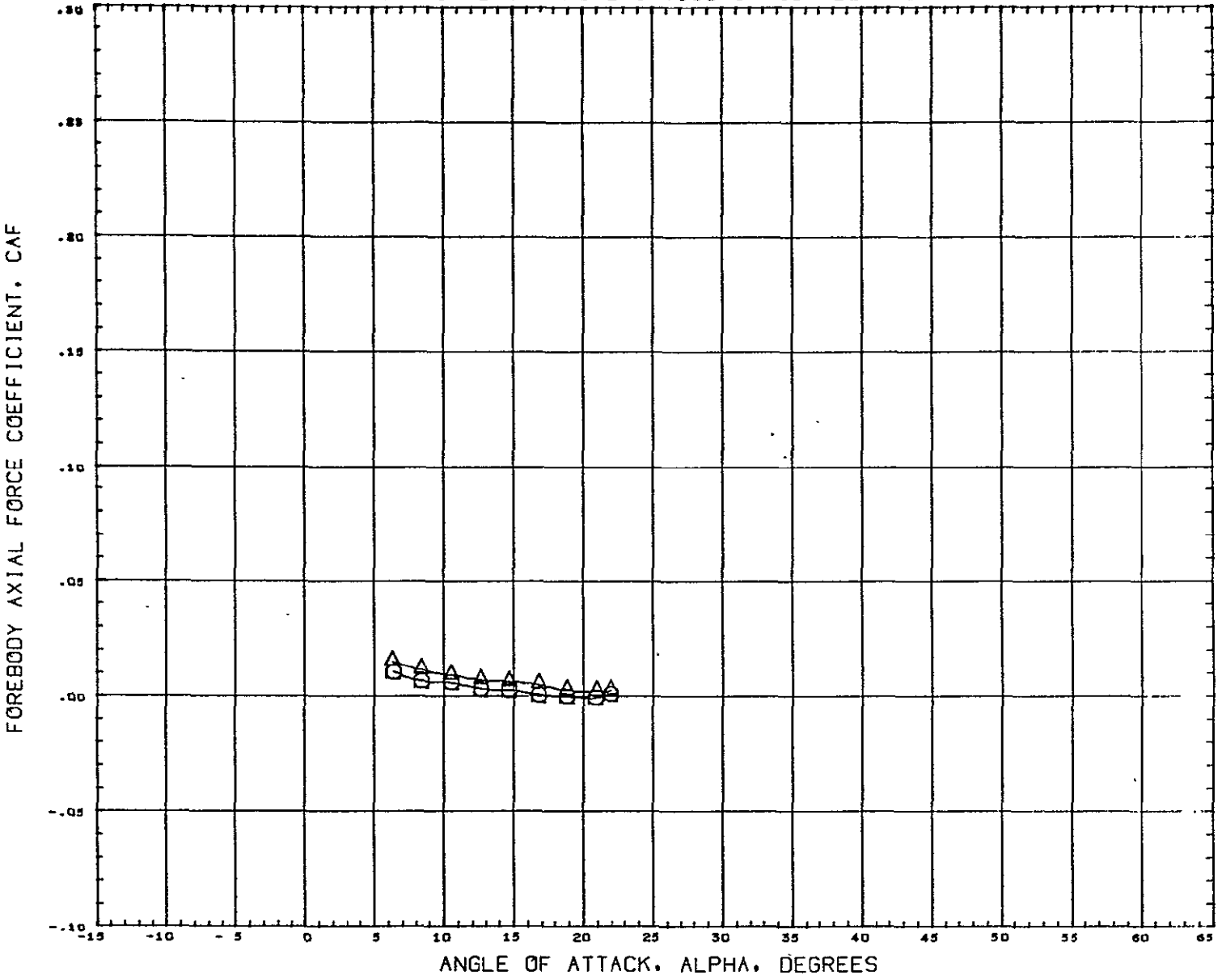


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28B31)		HSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)		DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

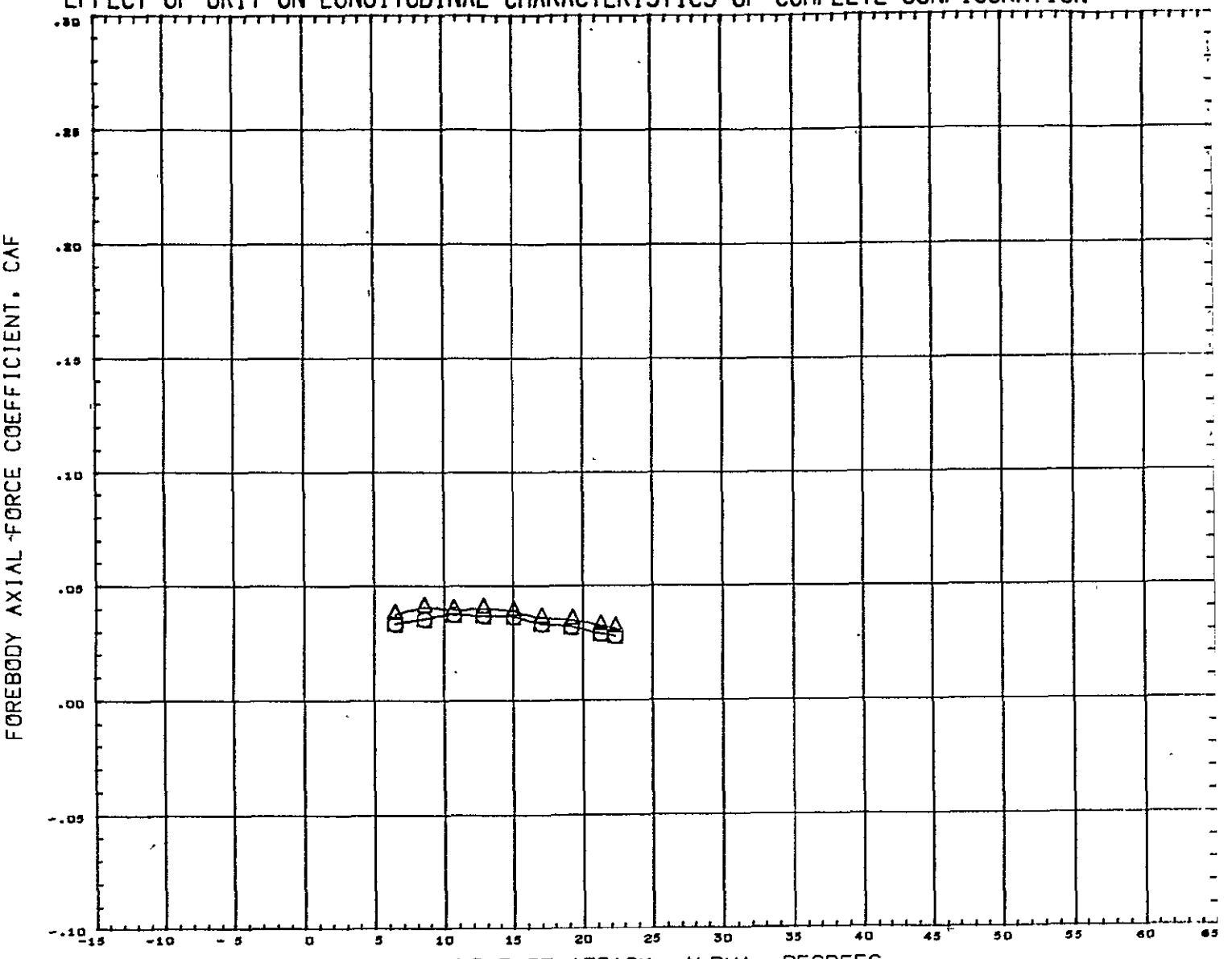


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E26831)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E26G01)	△	MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

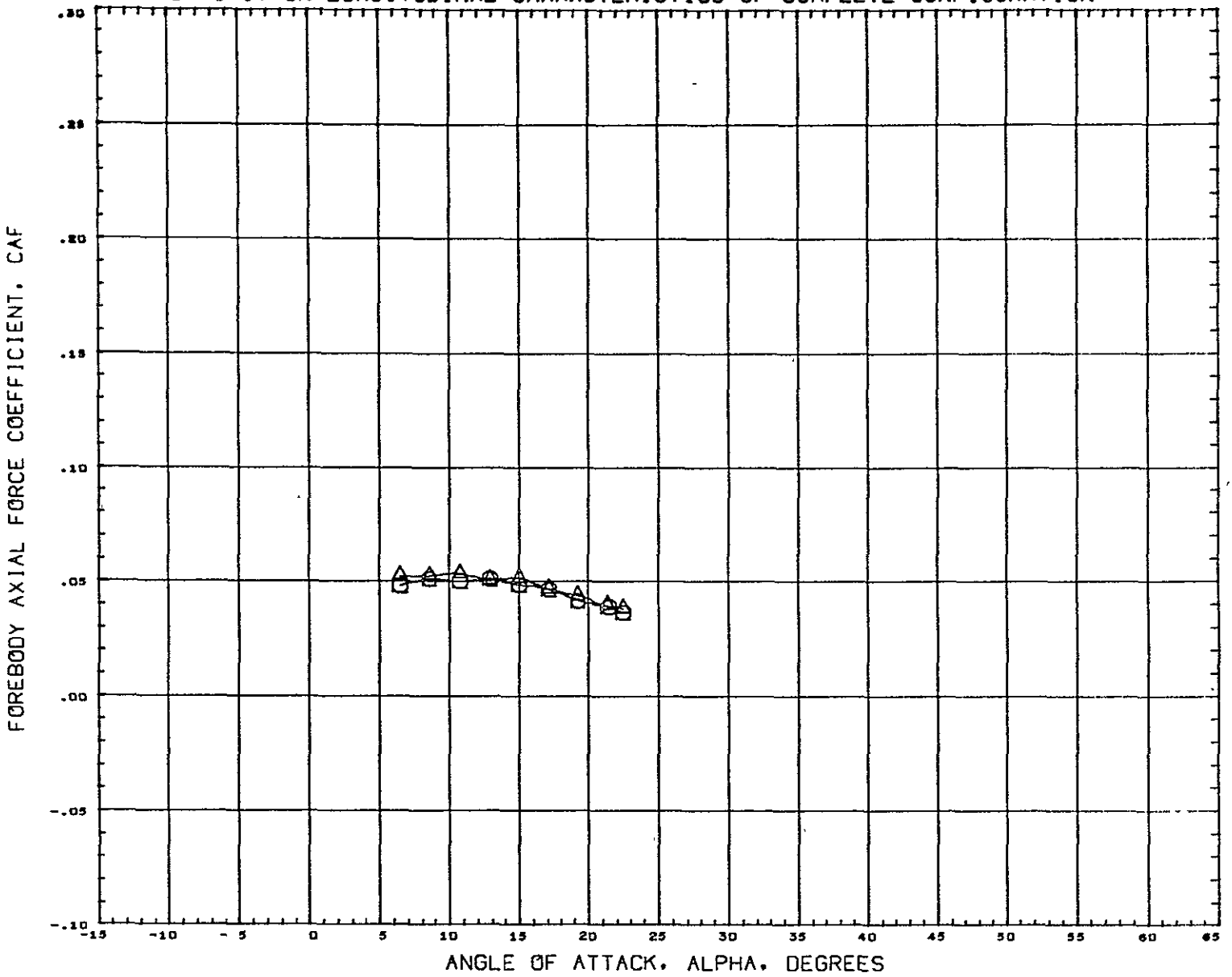


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E26B31)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E26GU1)	△	MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.900

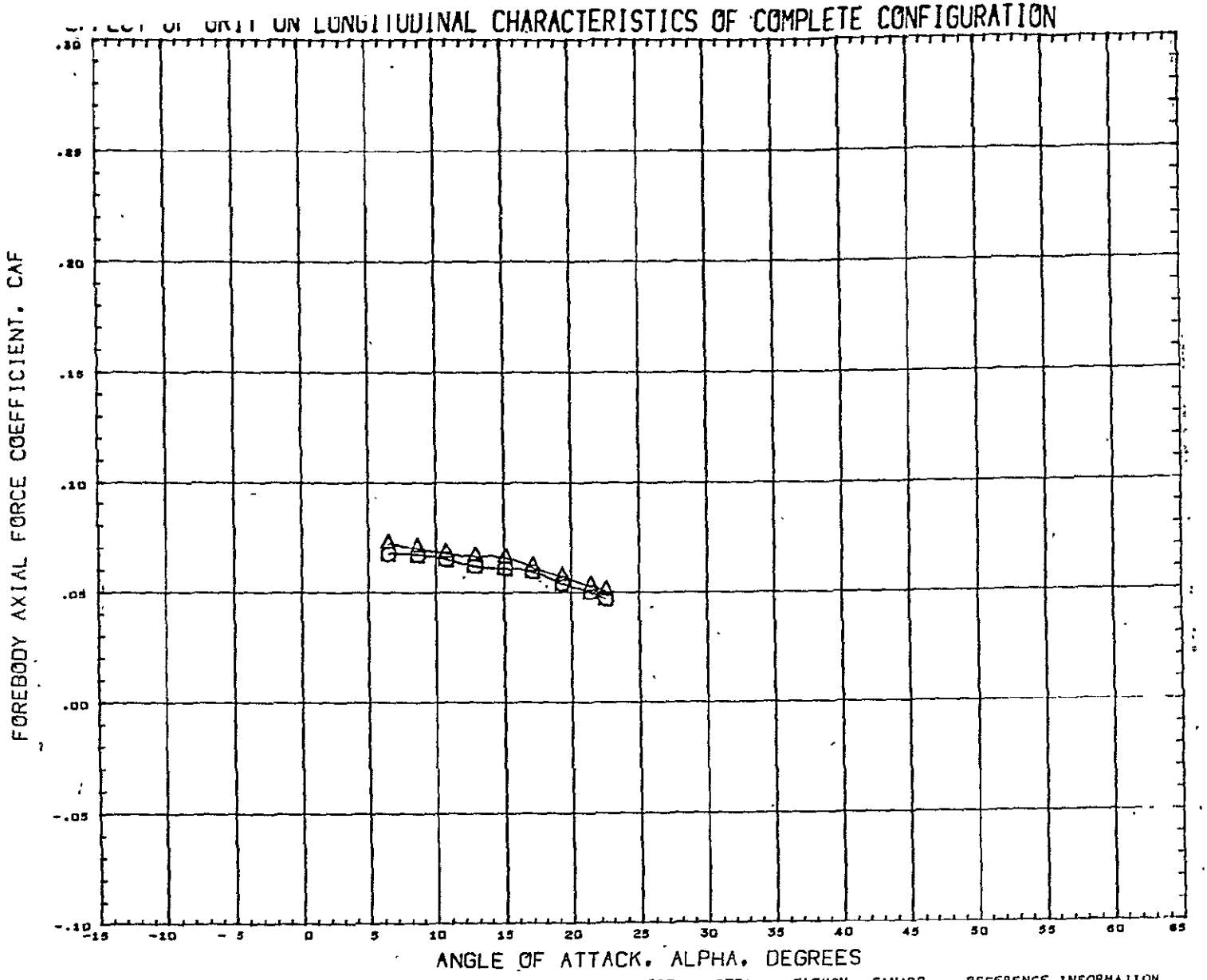
EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28B31)		MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)		MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.954

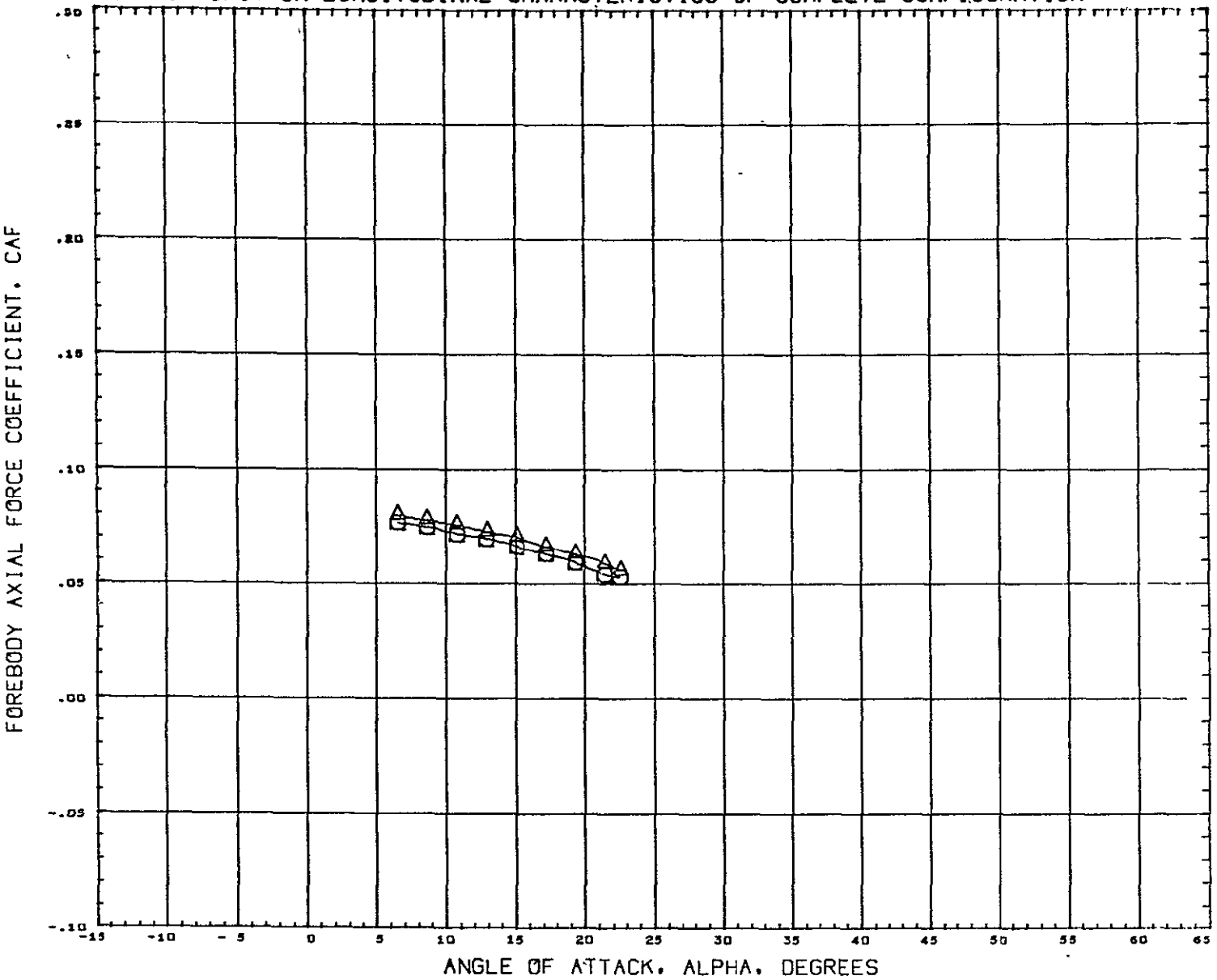


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28031)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)	△	MSFC 481 GD/C BOOSTER B19W14C4AV7	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.007

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION



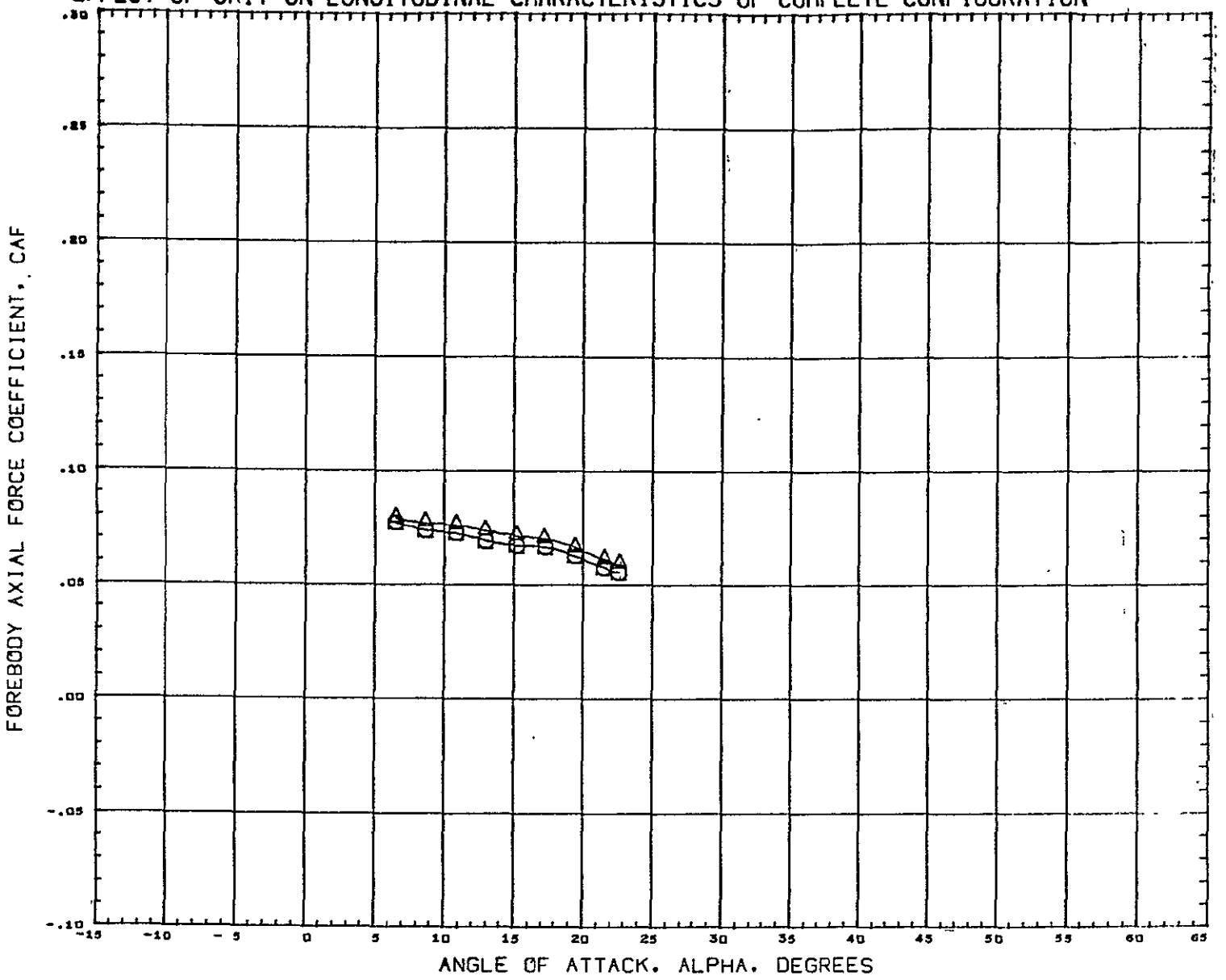
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E28B31)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E28G01)	△	MSFC 481 GD/C BOOSTER B19W14C4AV7

GRIT	BETA	ELEVON	CANARD
	0.000	0.000	0.000
120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION



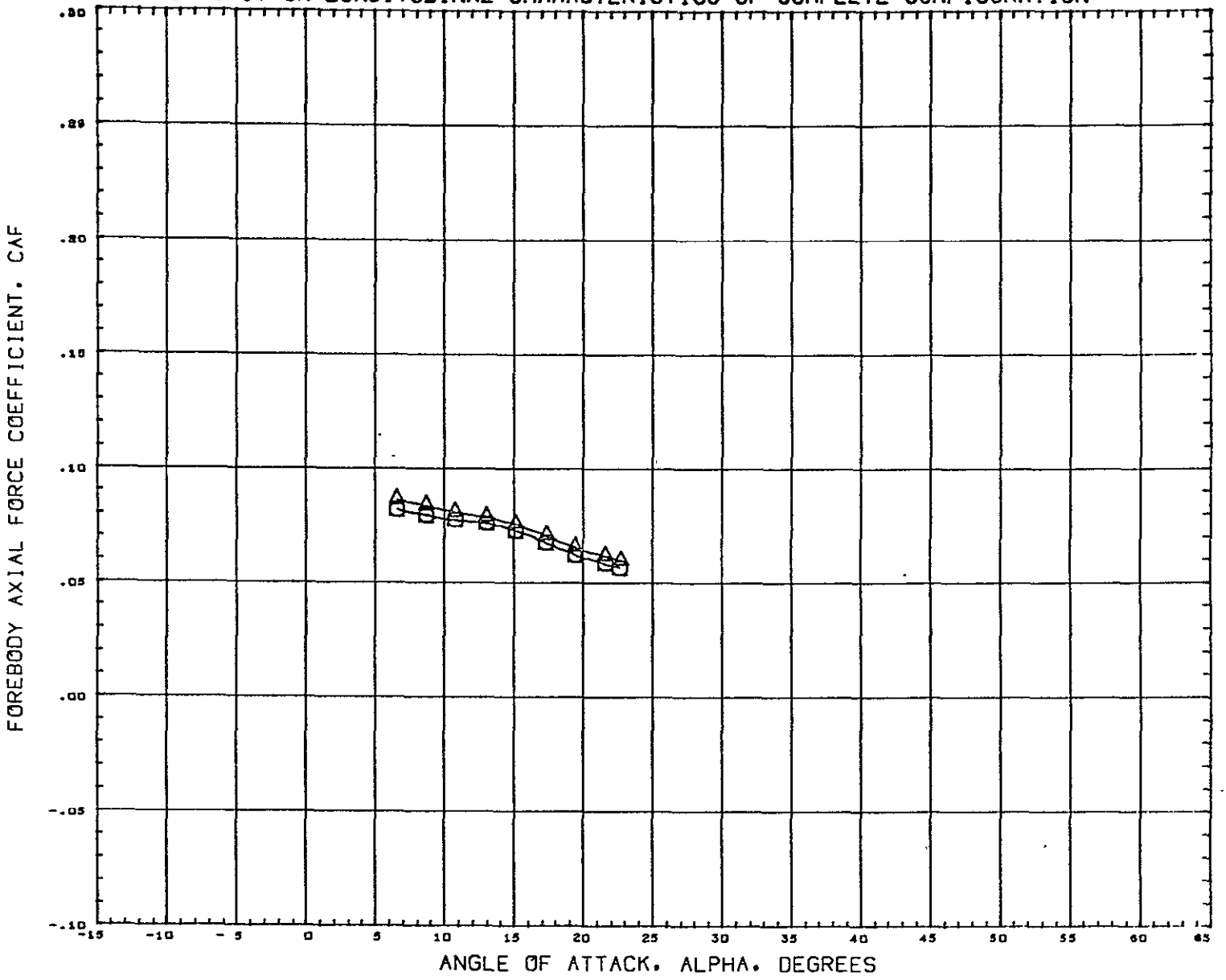
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E26B31)	○	HSFC481 GD/C(BOOSTER)B19W14C4AV7
(E26G01)	△	HSFC 481 GD/C BOOSTER B19W14C4AV7

GRIT	BETA	ELEVON	CANARD
	0.000	0.000	0.000
120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.105

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION



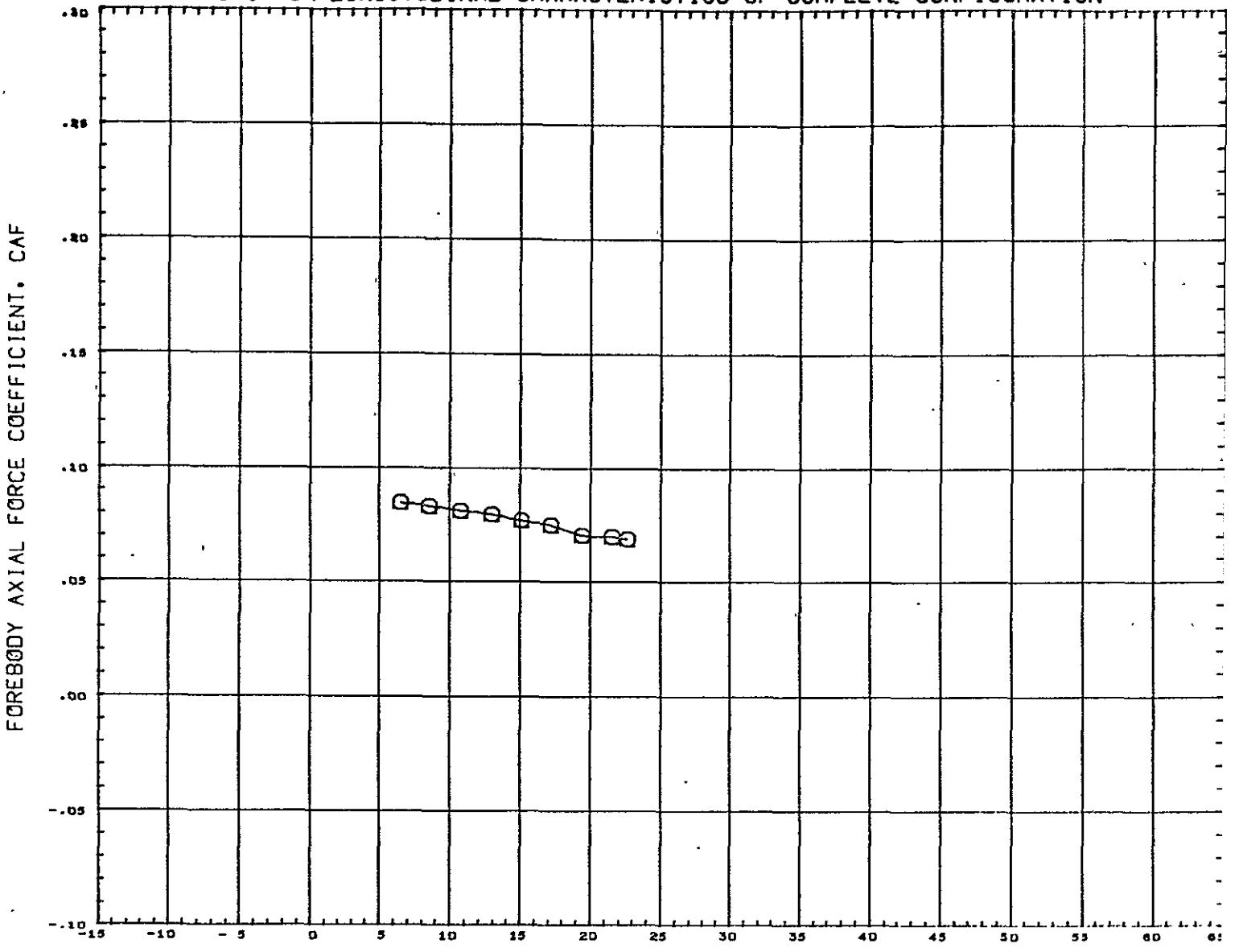
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E28B31)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(E28G01)	△	MSFC 481 GD/C BOOSTER B19W14C4AV7

GRIT	BETA	ELEVON	CANARD
	0.000	0.000	0.000
120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.201

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

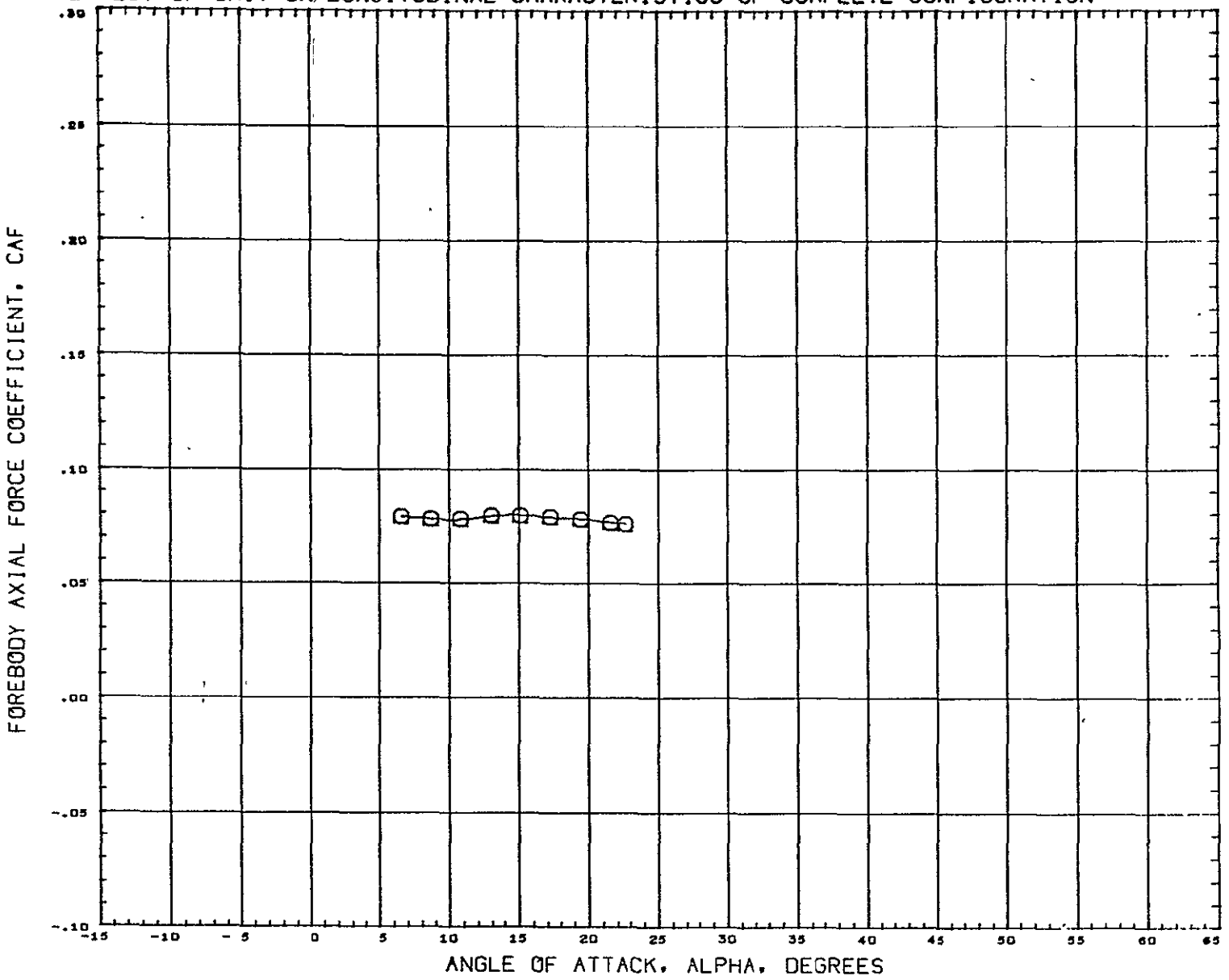


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E26831)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E26G01)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

MACH 1.462

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

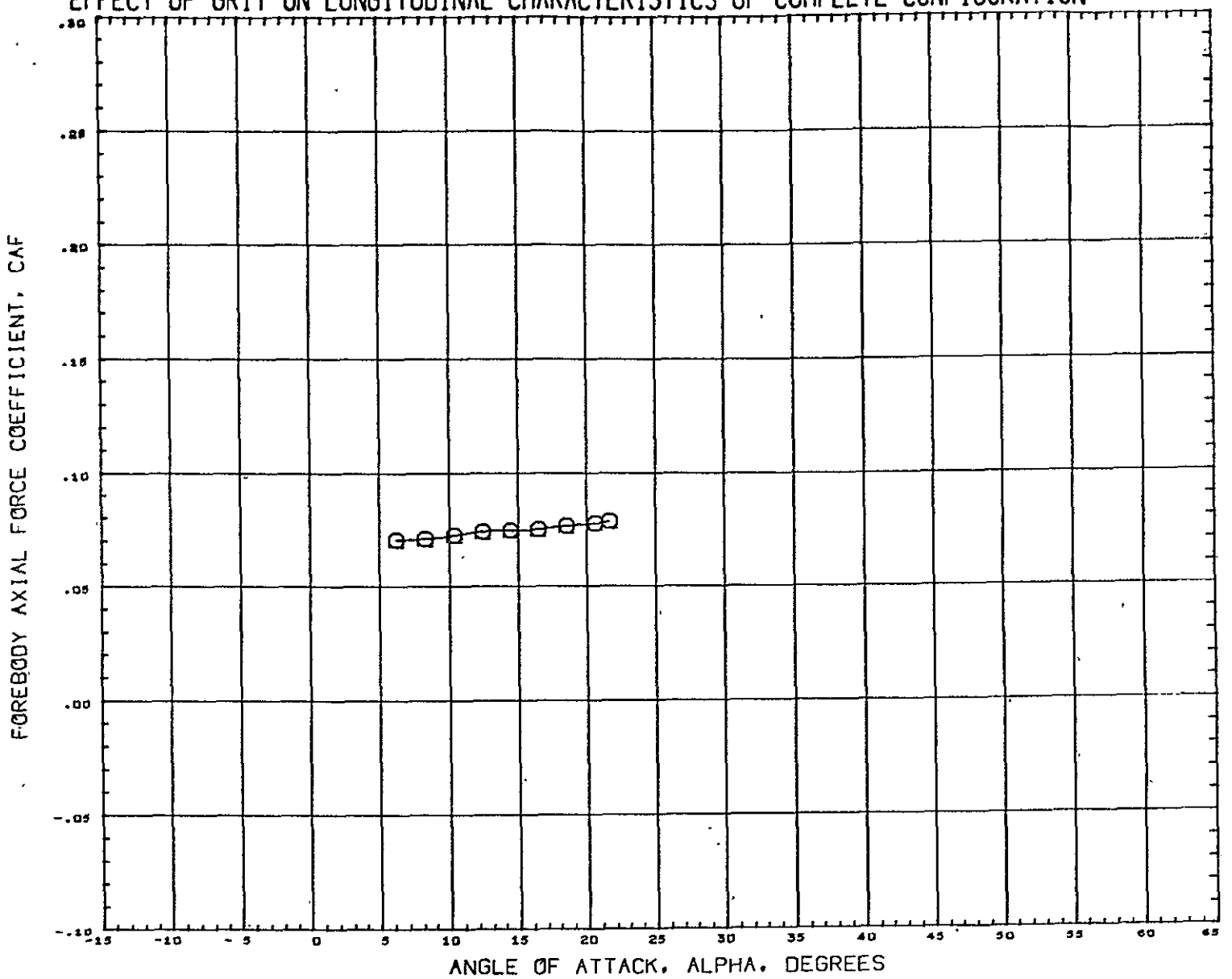


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28831)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

MACH 1.958

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

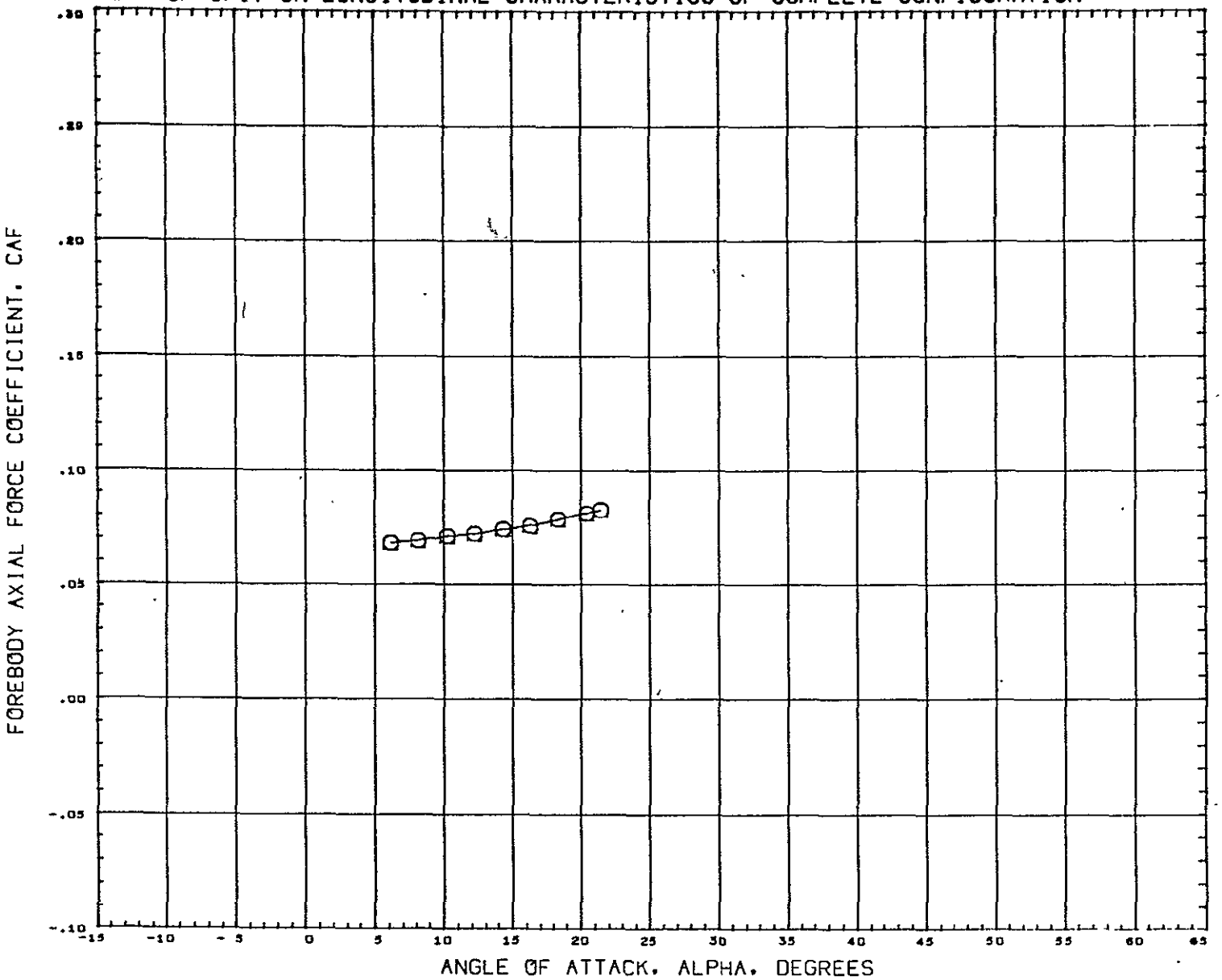


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E26831)		MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E26G01)		DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

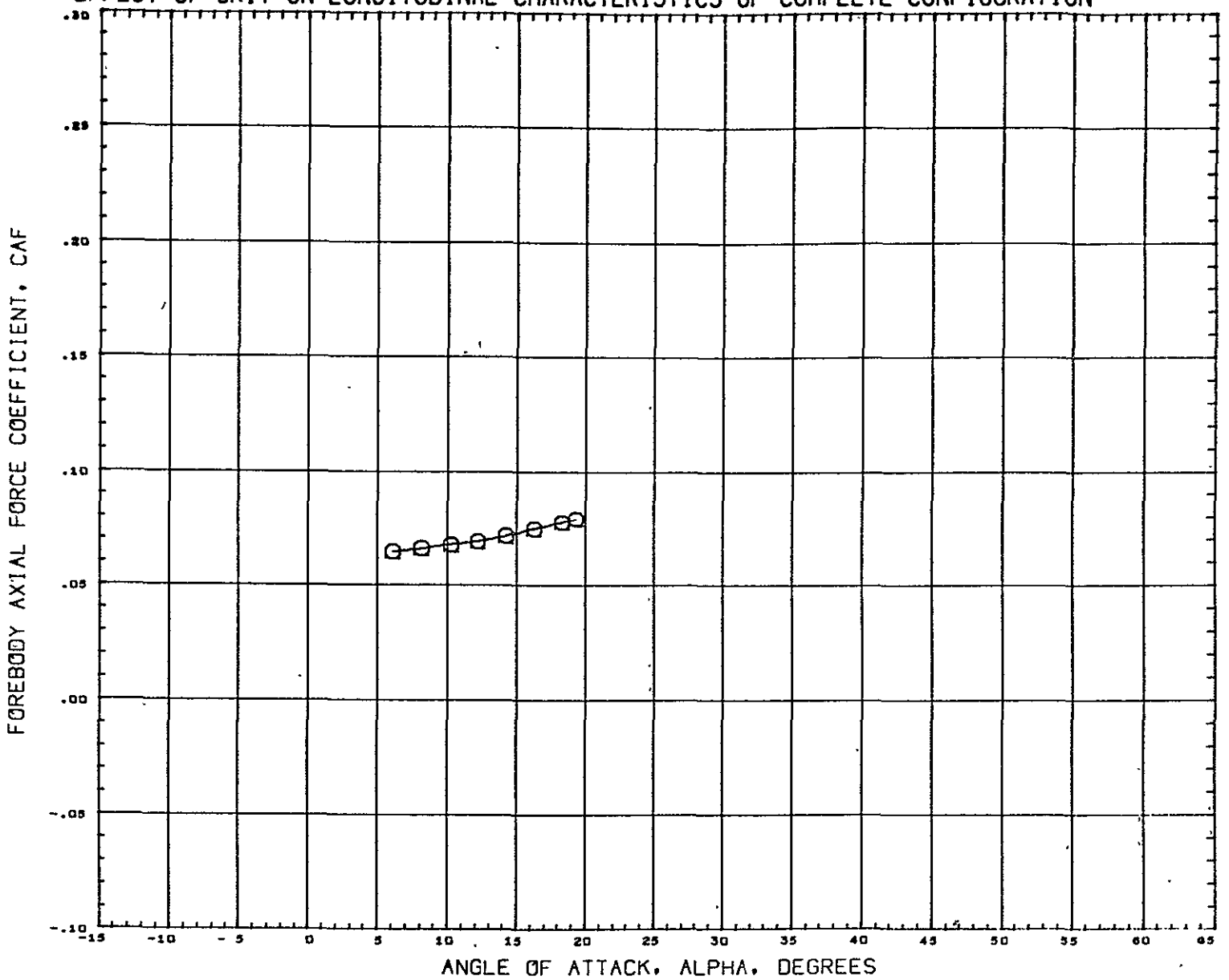


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28B51)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28G01)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.000

EFFECT OF GRIT ON LONGITUDINAL CHARACTERISTICS OF COMPLETE CONFIGURATION

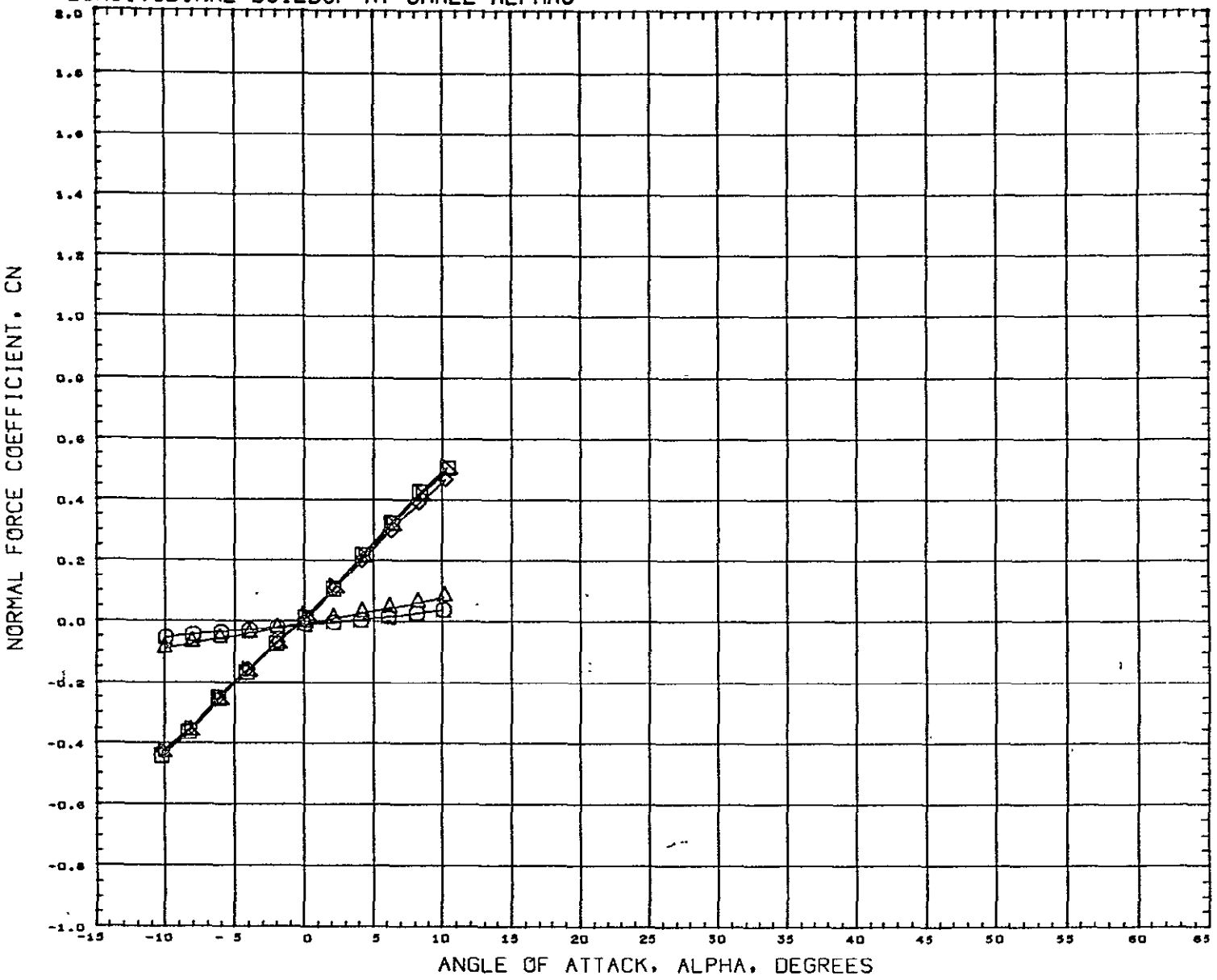


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GRIT	BETA	ELEVON	CANARD
(E28831)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7		0.000	0.000	0.000
(E28601)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	120.000	0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.960

LONGITUDINAL BUILDUP AT SMALL ALPHAS

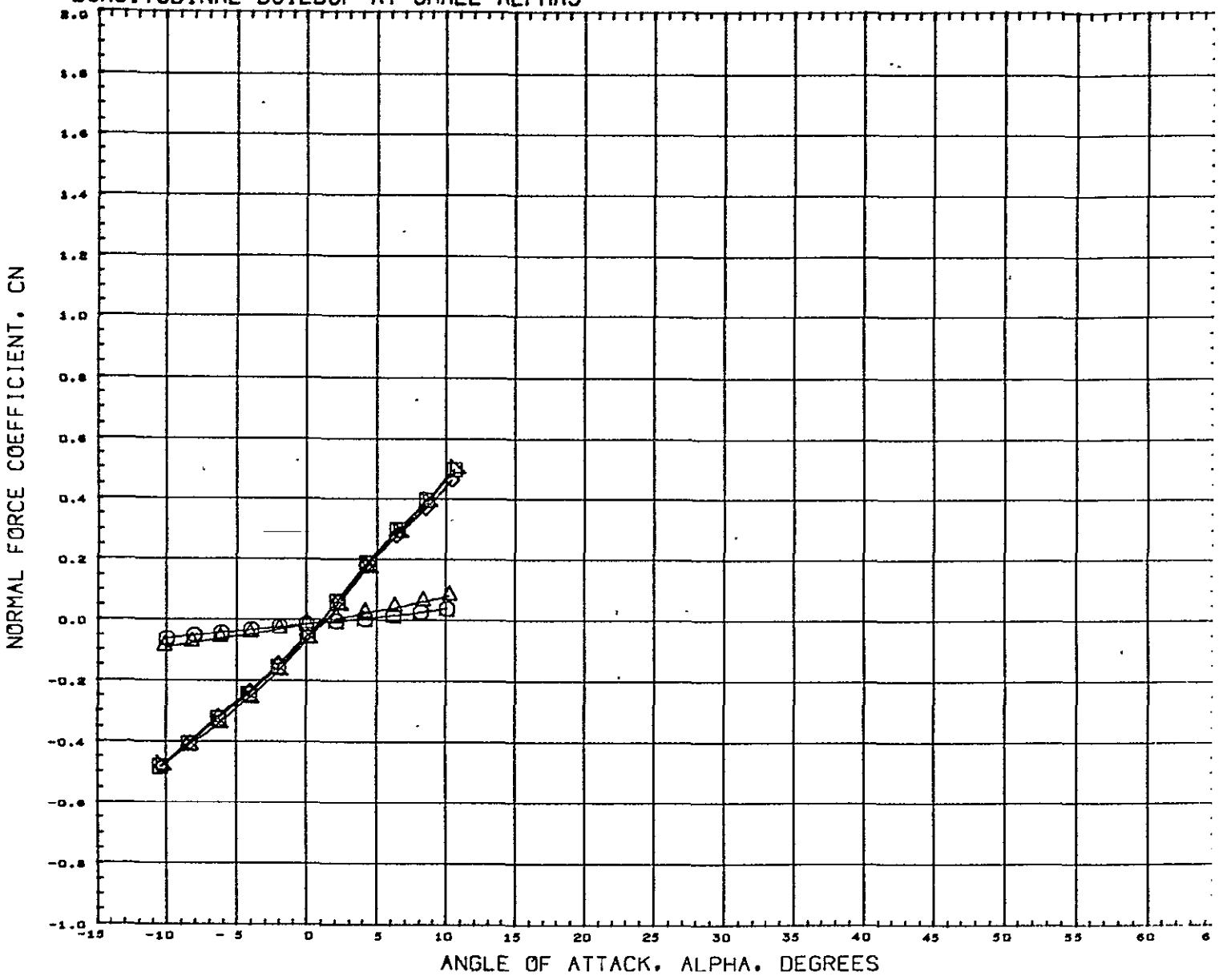


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E20814)	○	HSFC 481 GD/C(BOOSTER)B19	0.000			
(E20815)	□	HSFC 481 GD/C(BOOSTER)B19C4A	0.000		0.000	
(E20816)	◇	HSFC 481 GD/C(BOOSTER)B19W14	0.000	0.000		
(E20817)	△	HSFC 481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	
(E20820)	▽	HSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	

MACH 0.610

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS

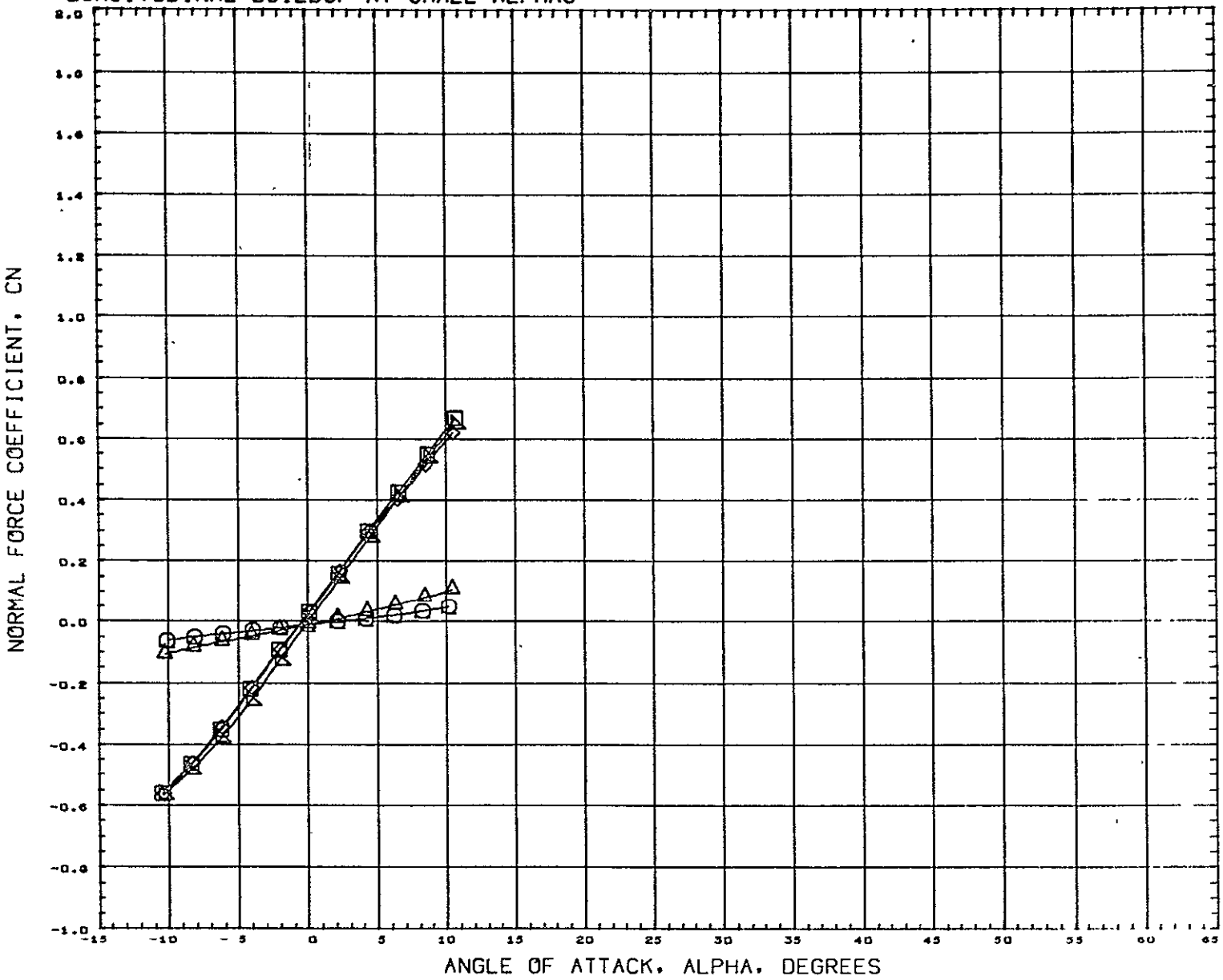


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28814)	○	MSFC 481 GD/C(BOOSTER)B19	0.000			
(E28815)	△	MSFC 481 GD/C(BOOSTER)B19C4A	0.000		0.000	
(E28816)	◇	MSFC 481 GD/C(BOOSTER)B19W14	0.000	0.000		
(E28817)	□	MSFC 481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	
(E28820)	▽	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	

MACH 0.901

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS

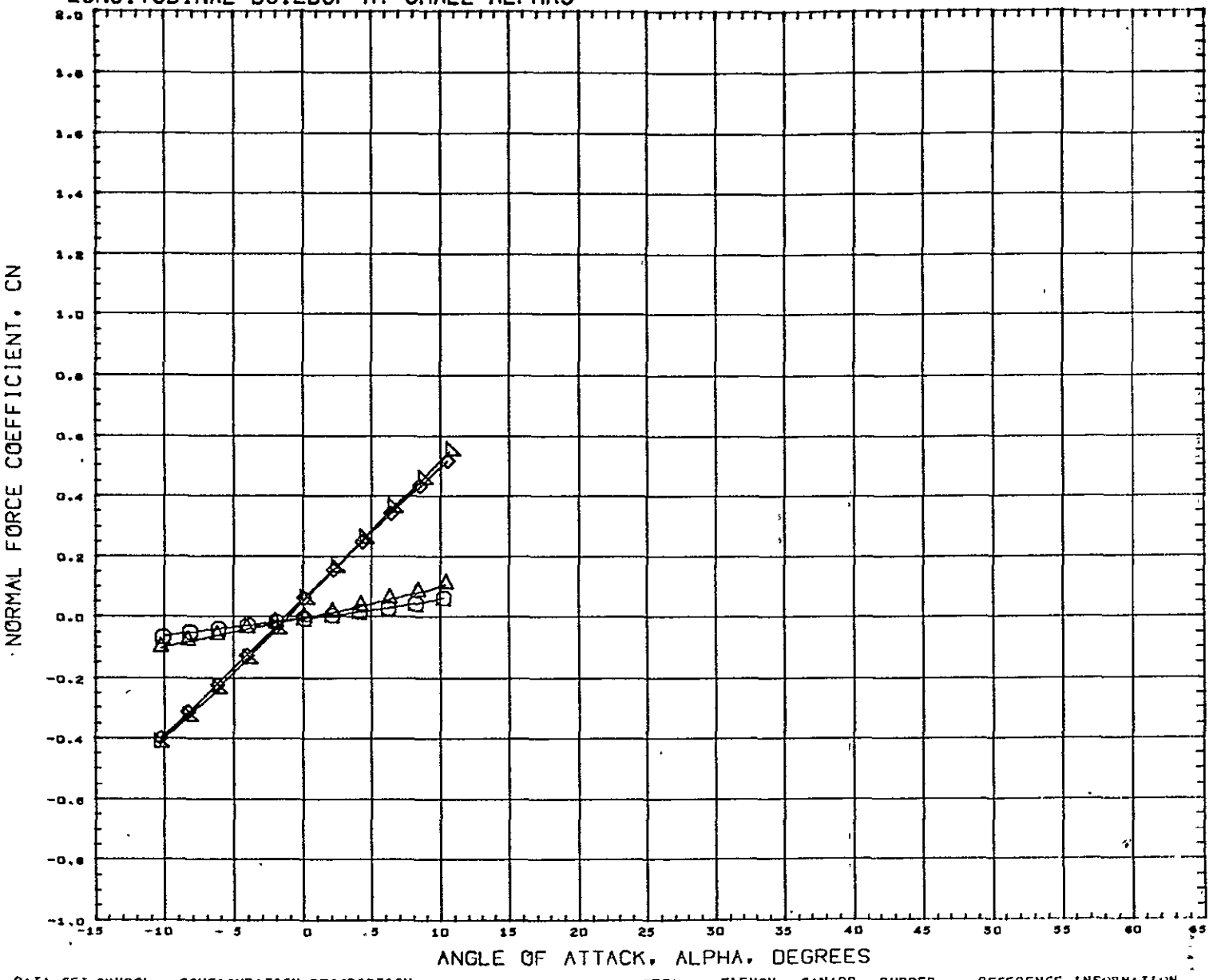


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28B14)		MSFC 481 GD/C(BOOSTER)B19	0.000			
(E28B15)		MSFC 481 GD/C(BOOSTER)B19C4A	0.000		0.000	
(E28B16)		MSFC 481 GD/C(BOOSTER)B19W14	0.000	0.000		
(E28B17)		MSFC 481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	
(E28B20)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	

MACH 1.105

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS

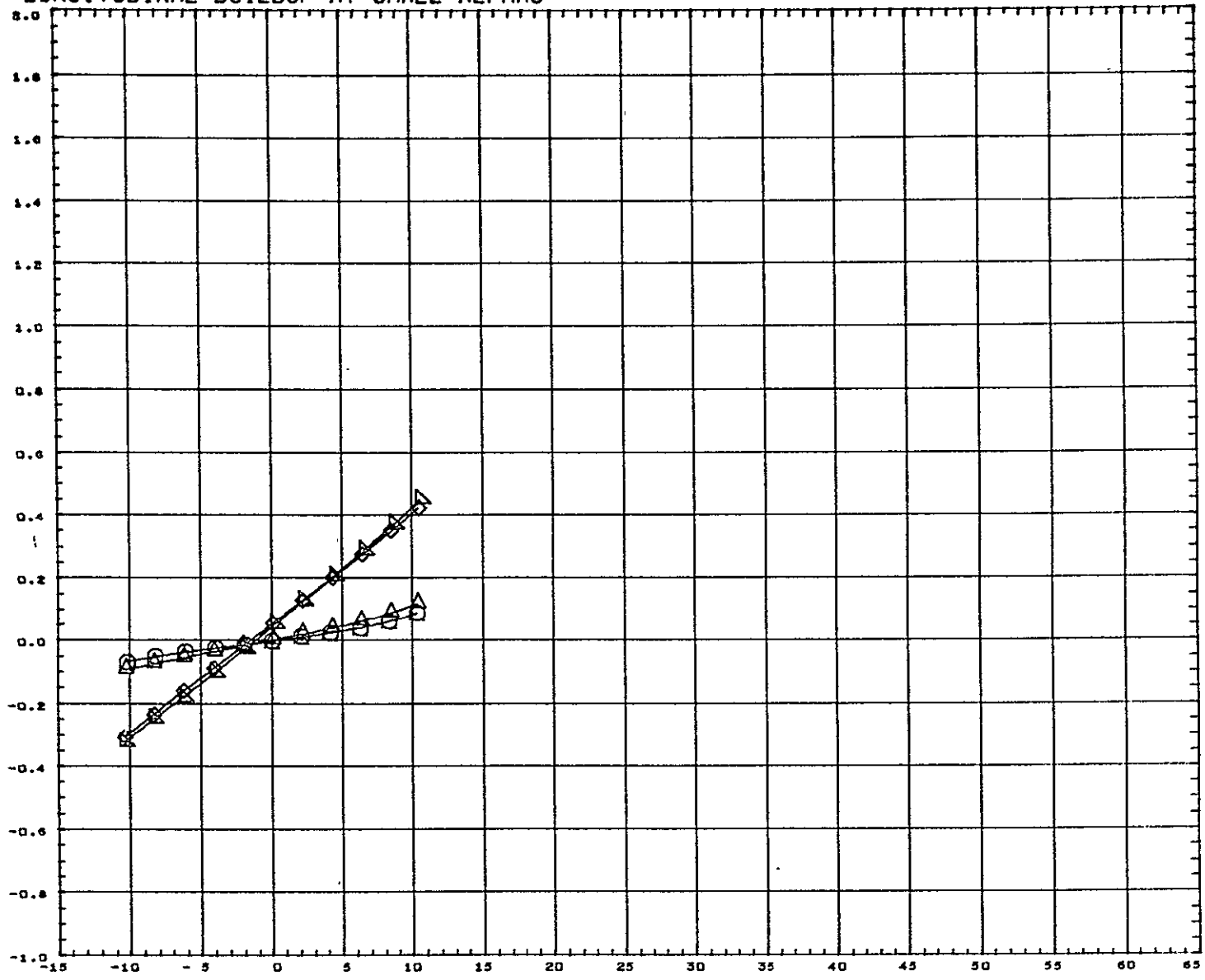


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28B14)	○	MSFC 461 GD/C(BOOSTER)B19	0.000			
(E28B15)	△	MSFC 461 GD/C(BOOSTER)B19C4A	0.000		0.000	
(E28B16)	◇	MSFC 461 GD/C(BOOSTER)B19W14	0.000	0.000		
(E28B17)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28B20)	⬠	MSFC 461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	

MACH 1.461

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0930	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS

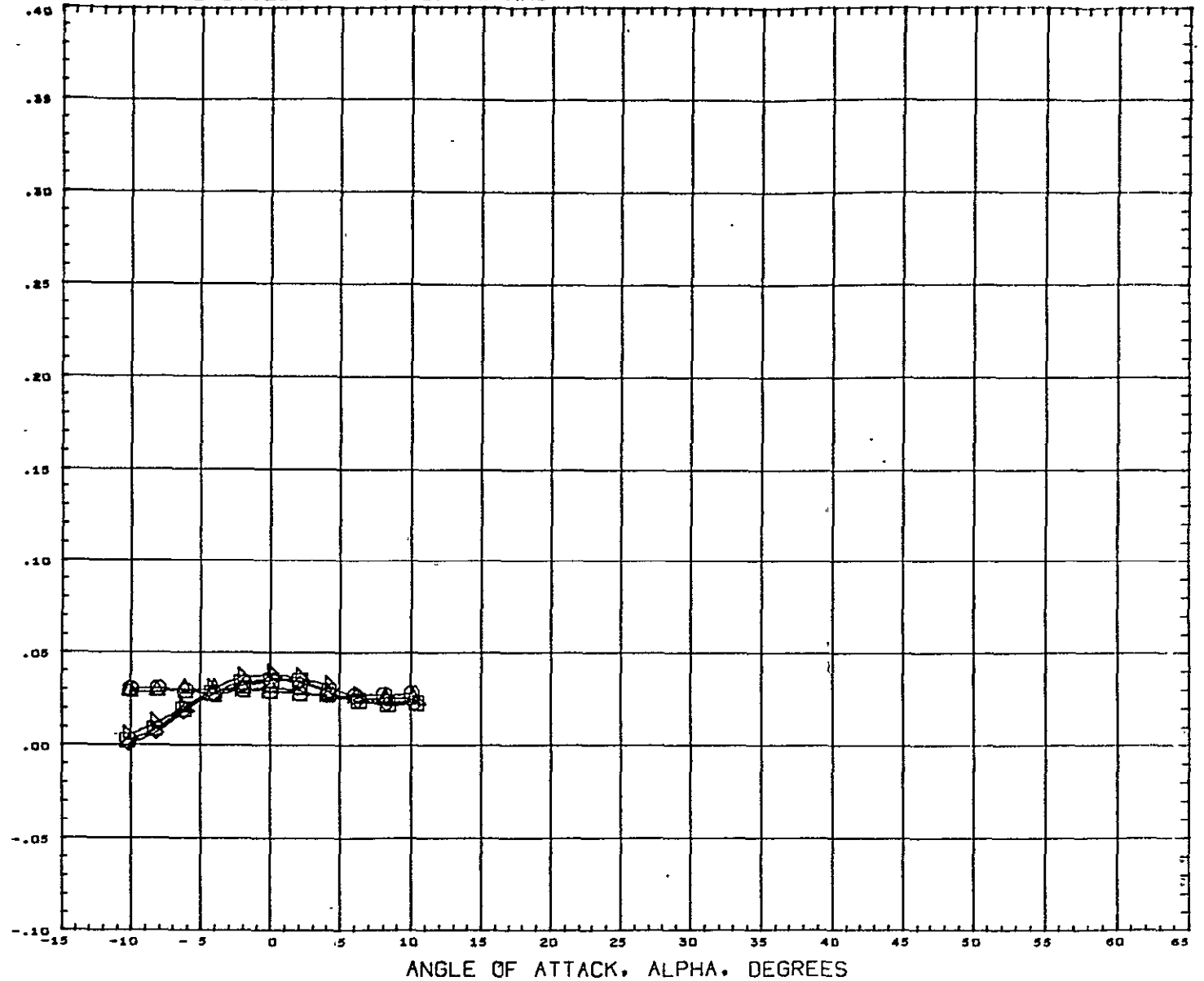


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28B14)		MSFC 481 GD/C(BOOSTER)B19	0.000			
(E28B15)		MSFC 481 GD/C(BOOSTER)B19C4A	0.000		0.000	
(E28B16)		MSFC 481 GD/C(BOOSTER)B19W14	0.000	0.000		
(E28B17)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28B20)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	

MACH 1.966

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS

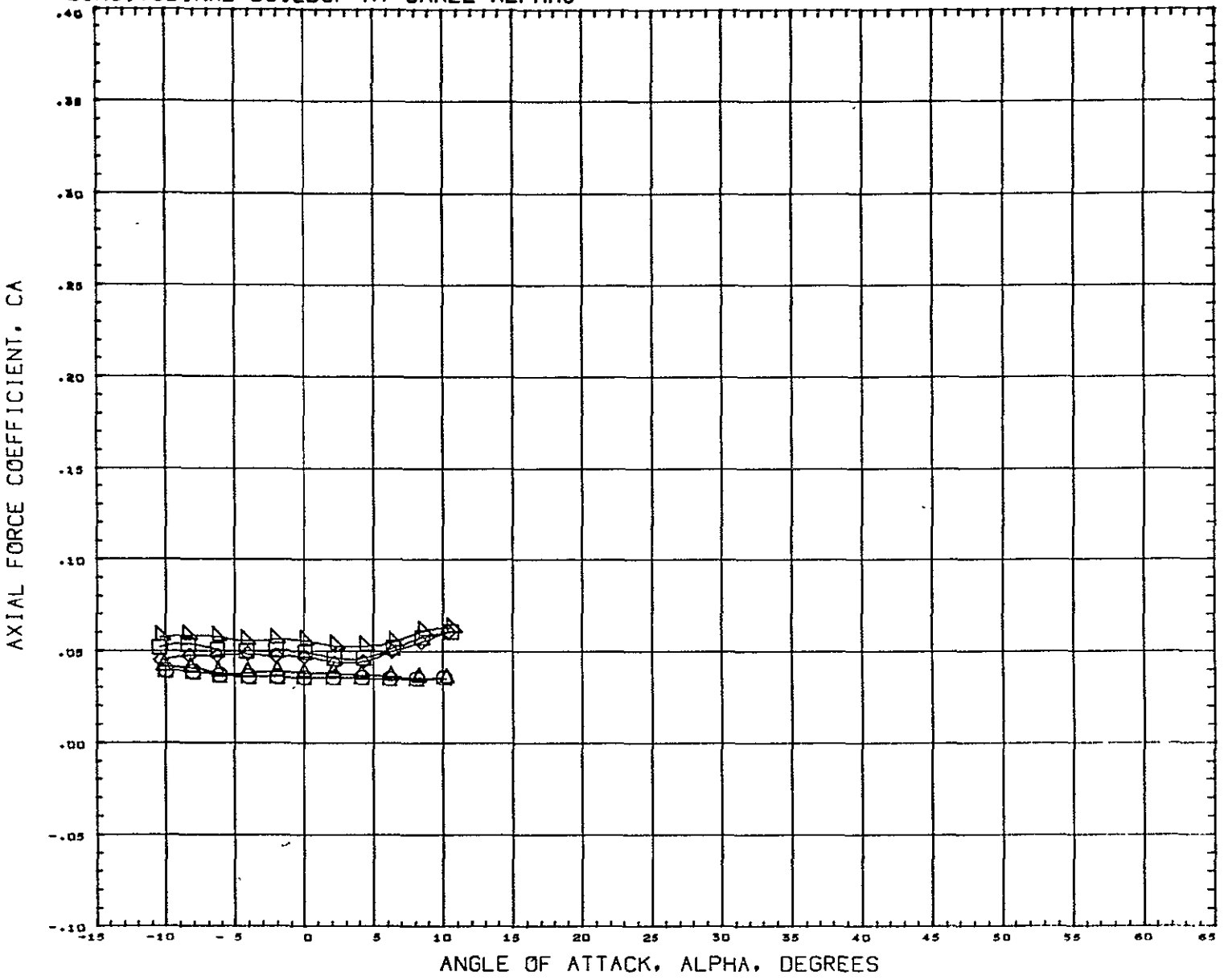


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28814)		MSFC 481 GD/C(BOOSTER)B19	0.000			
(E28815)		MSFC 481 GD/C(BOOSTER)B19C4A	0.000		0.000	
(E28816)		MSFC 481 GD/C(BOOSTER)B19W14	0.000	0.000		
(E28817)		MSFC 481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	
(E28820)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	

MACH 0.610

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS

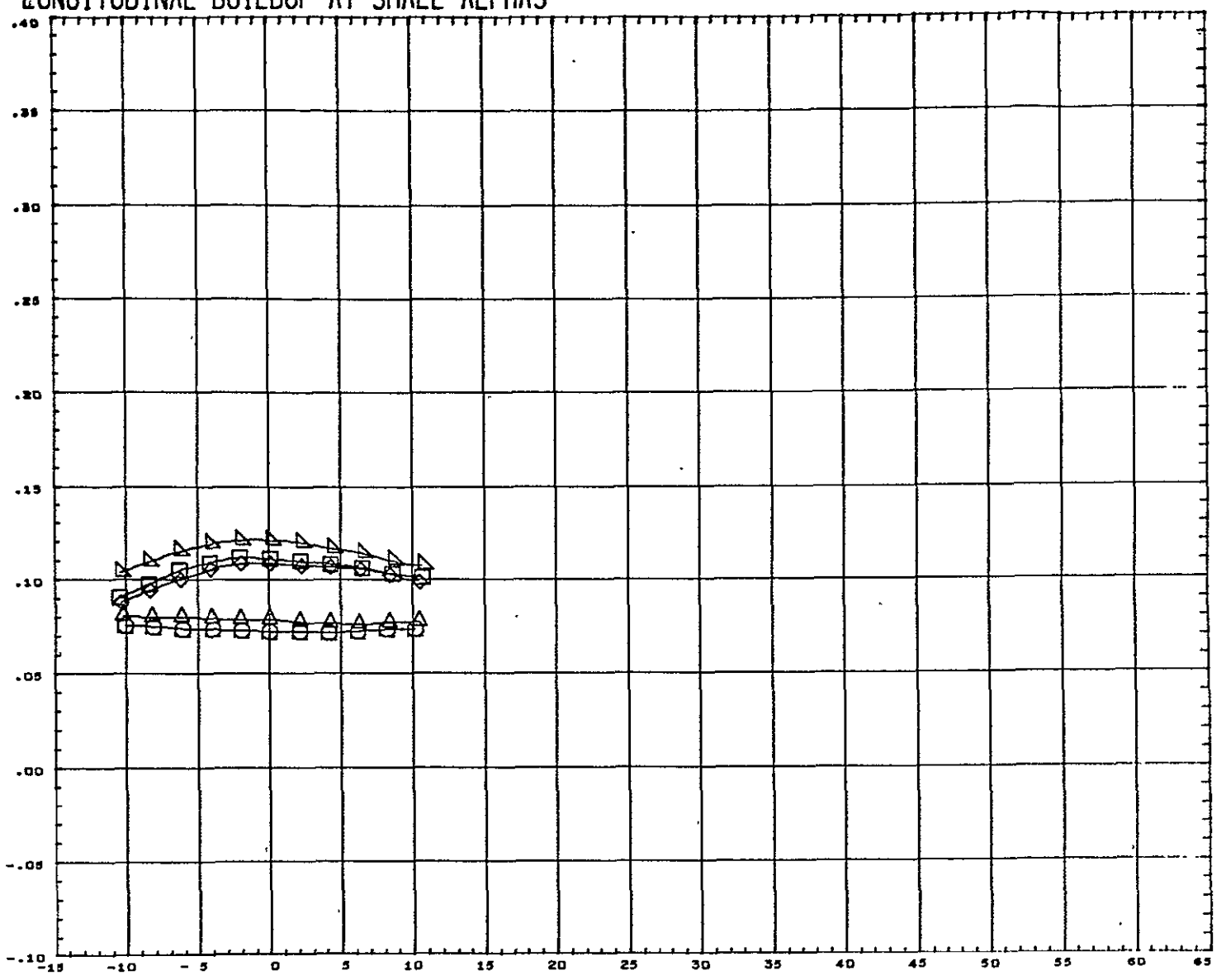


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28B14)		MSFC 481 GD/C(BOOSTER)B19	0.000			
(E28B15)		MSFC 481 GD/C(BOOSTER)B19C4A	0.000		0.000	
(E28B16)		MSFC 481 GD/C(BOOSTER)B19W14	0.000	0.000		
(E28B17)		MSFC 481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	
(E28B20)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	

MACH 0.901

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS



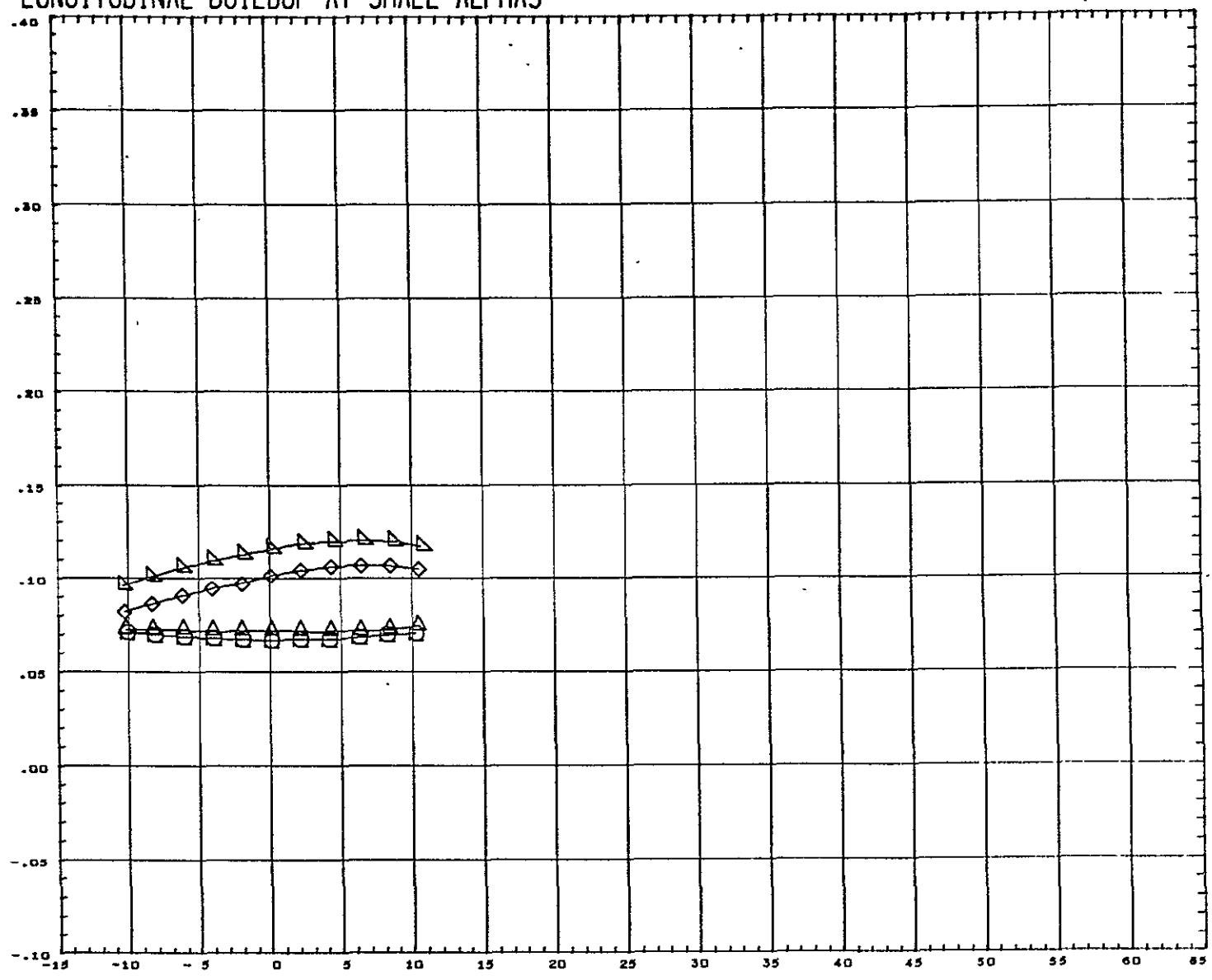
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28B14)		MSFC 481 GD/C(BOOSTER)B19	0.000			
(E28B15)		MSFC 481 GD/C(BOOSTER)B19C4A	0.000		0.000	
(E28B16)		MSFC 481 GD/C(BOOSTER)B19W14	0.000	0.000		
(E28B17)		MSFC 481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	
(E28B20)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	

MACH 1.105

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS

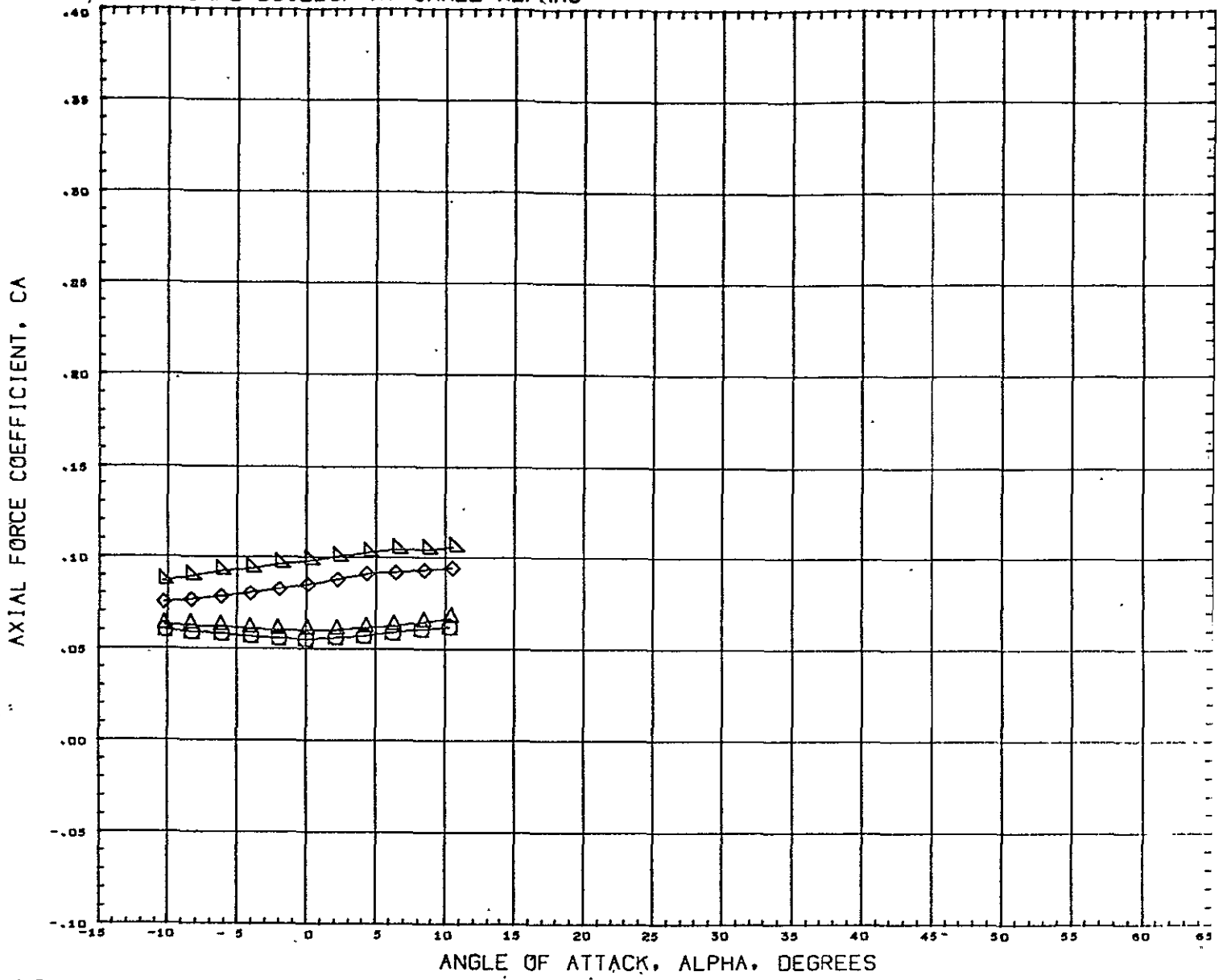


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28814)	○	MSFC 481 GD/C(BOOSTER)B19	0.000			
(E28815)	△	MSFC 481 GD/C(BOOSTER)B19C4A	0.000		0.000	
(E28816)	◇	MSFC 481 GD/C(BOOSTER)B19W14	0.000	0.000		
(E28817)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28820)	▽	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	

MACH 1.461

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS



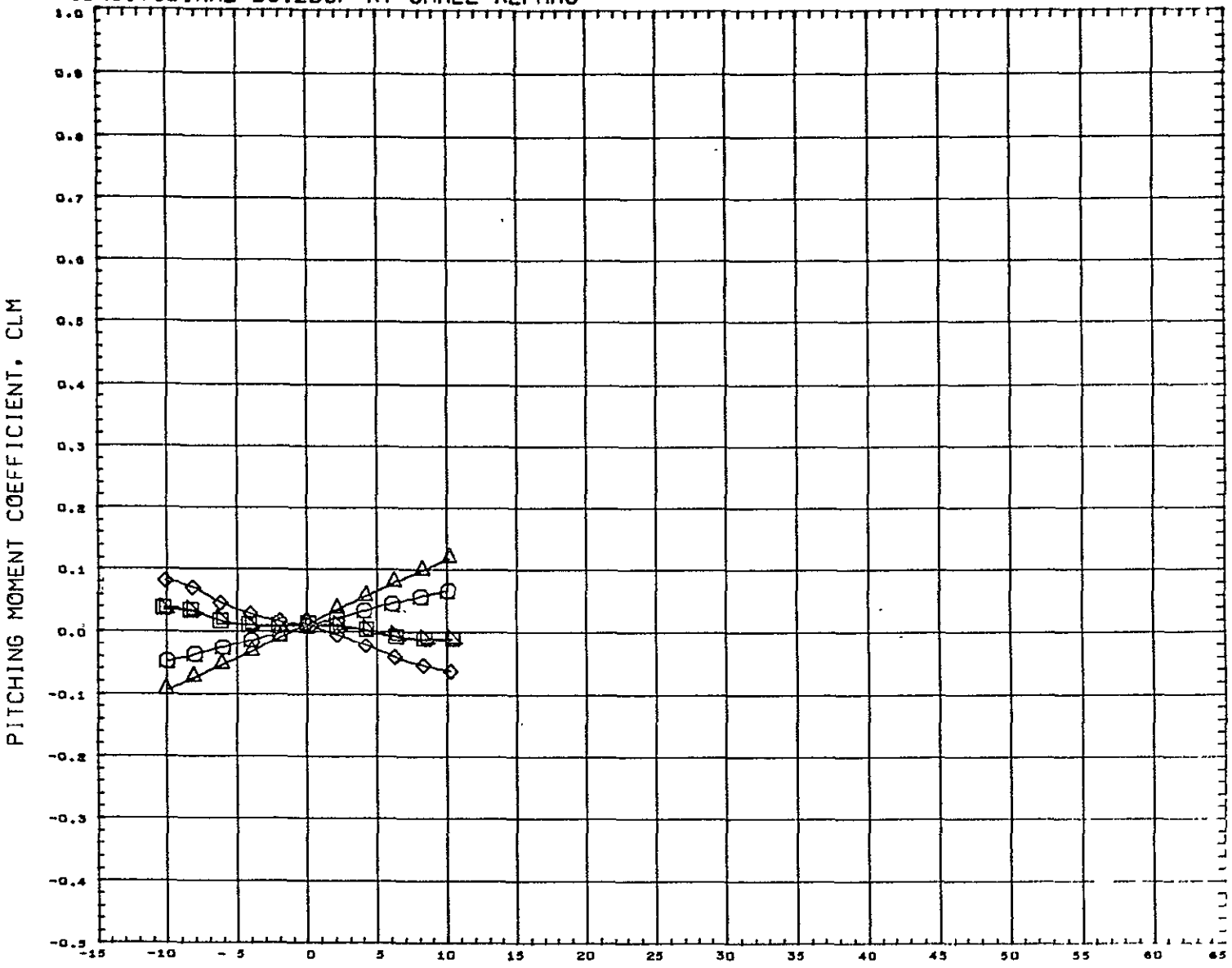
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E28B14)	○	MSFC 481 GD/C(BOOSTER)B19
(E28B15)	△	MSFC 481 GD/C(BOOSTER)B19C4A
(E28B16)	◇	MSFC 481 GD/C(BOOSTER)B19W14
(E28B17)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E28B20)	▽	MSFC 481 GD/C(BOOSTER)B19W14C4AV7

MACH 1.966

BETA	ELEVON	CANARD	RUDDER
0.000			
0.000		0.000	
0.000	0.000		
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS

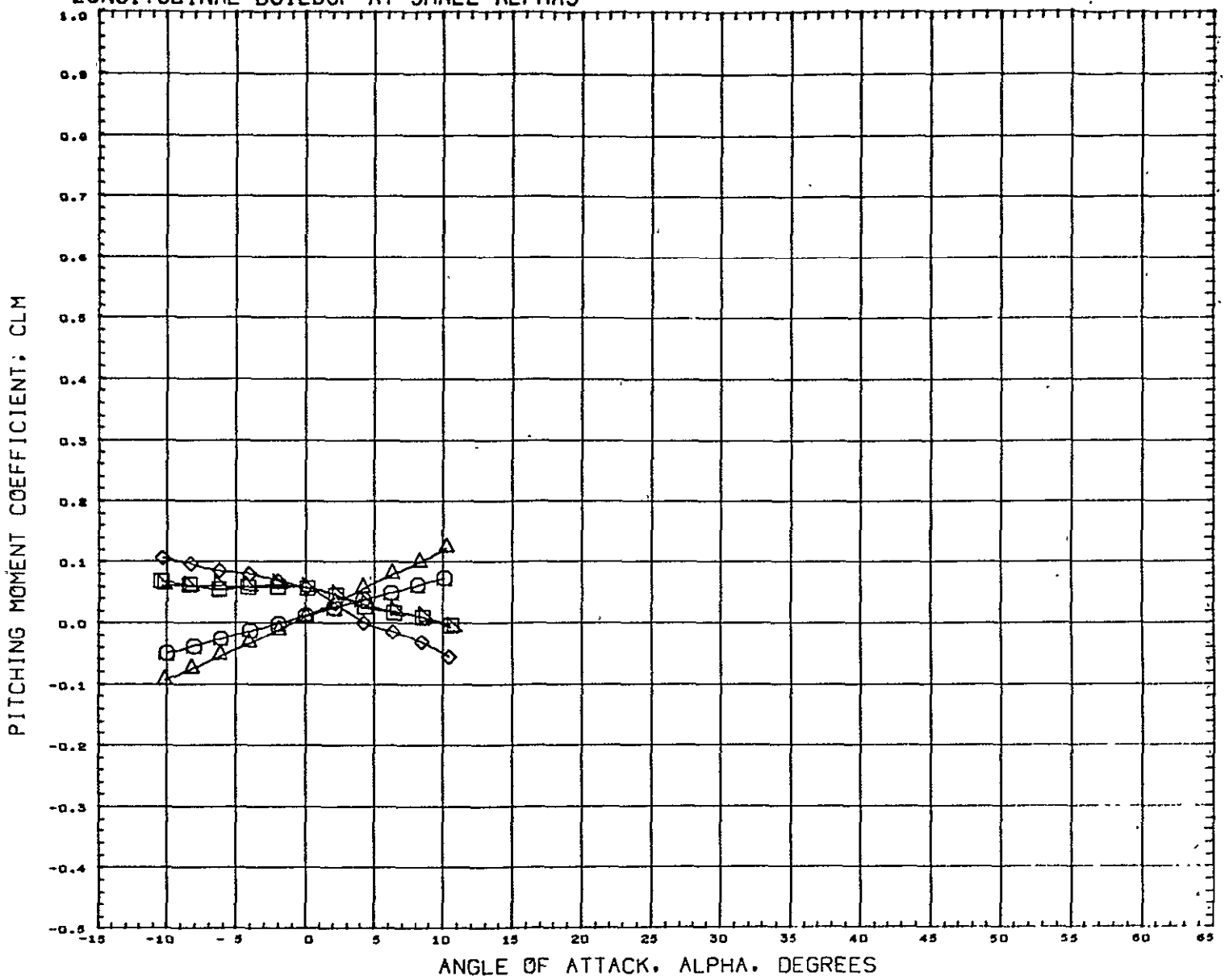


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28B14)		MSFC 481 GD/C(BOOSTER)B19	0.000			
(E28B15)		MSFC 481 GD/C(BOOSTER)B19C4A	0.000		0.000	
(E28B16)		MSFC 481 GD/C(BOOSTER)B19W14	0.000	0.000		
(E28B17)		MSFC 481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	
(E28B20)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	

MACH 0.610

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS

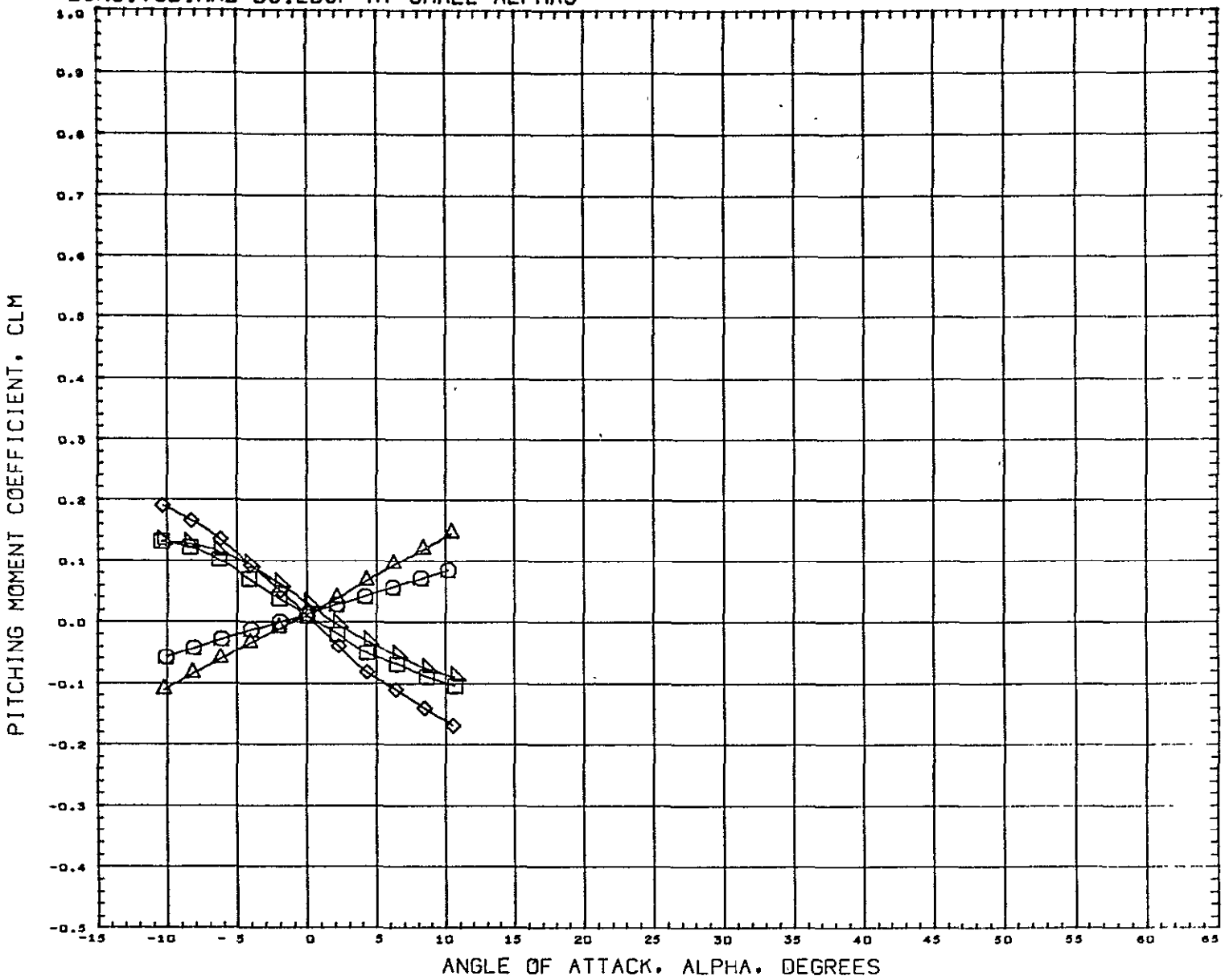


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28B14)	○	MSFC 481 GD/C(BOOSTER)B19	0.000			
(E28B15)	△	MSFC 481 GD/C(BOOSTER)B19C4A	0.000		0.000	
(E28B16)	◇	MSFC 481 GD/C(BOOSTER)B19W14	0.000	0.000		
(E28B17)	□	MSFC 481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	
(E28B20)	▱	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	

MACH 0.901

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

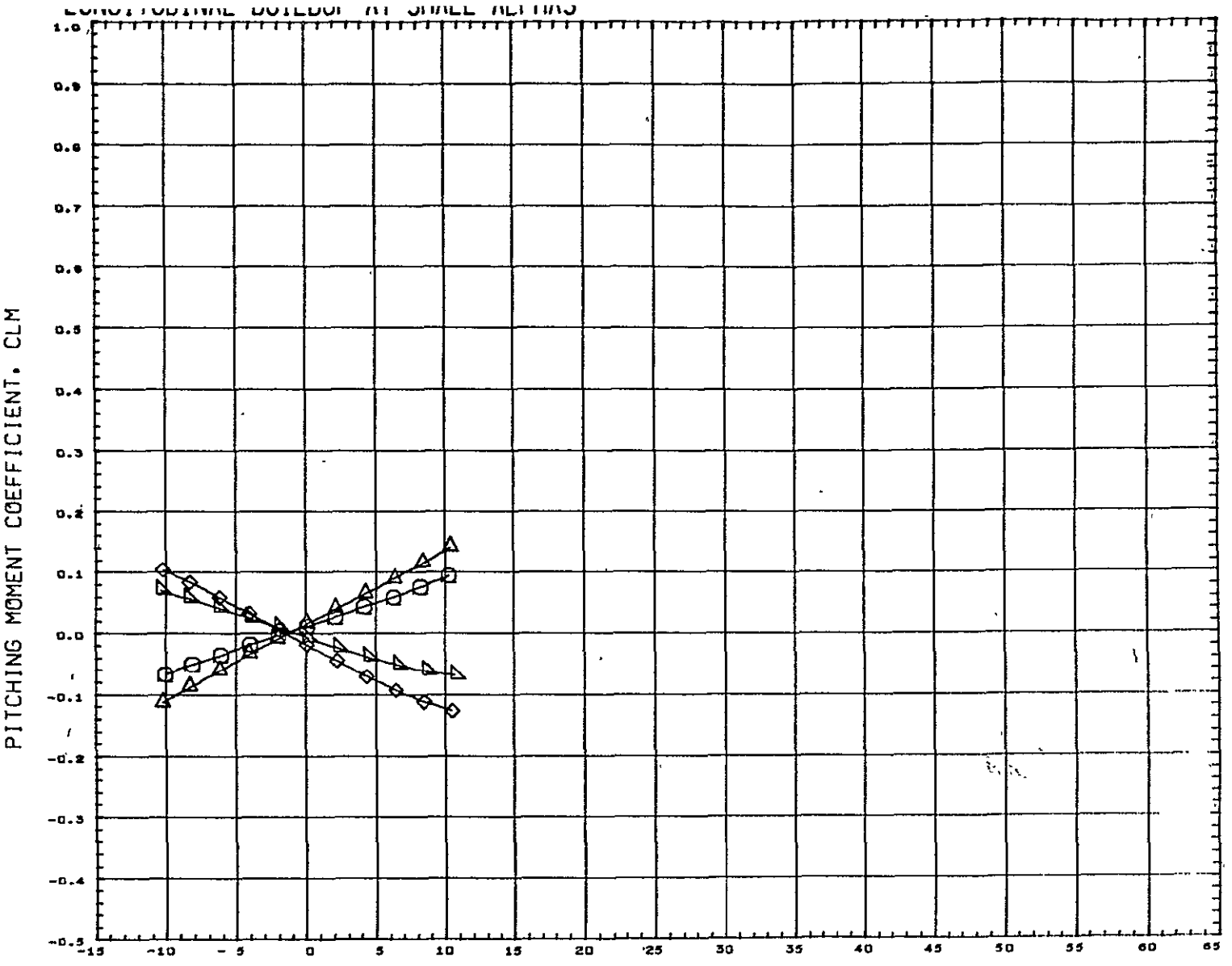
LONGITUDINAL BUILDUP AT SMALL ALPHAS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28814)	○	MSFC 481 GD/C(BOOSTER)B19	0.000			
(E28815)	△	MSFC 481 GD/C(BOOSTER)B19C4A	0.000		0.000	
(E28816)	◇	MSFC 481 GD/C(BOOSTER)B19W14	0.000	0.000		
(E28817)	□	MSFC 481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	
(E28820)	▷	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	

MACH 1.105

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

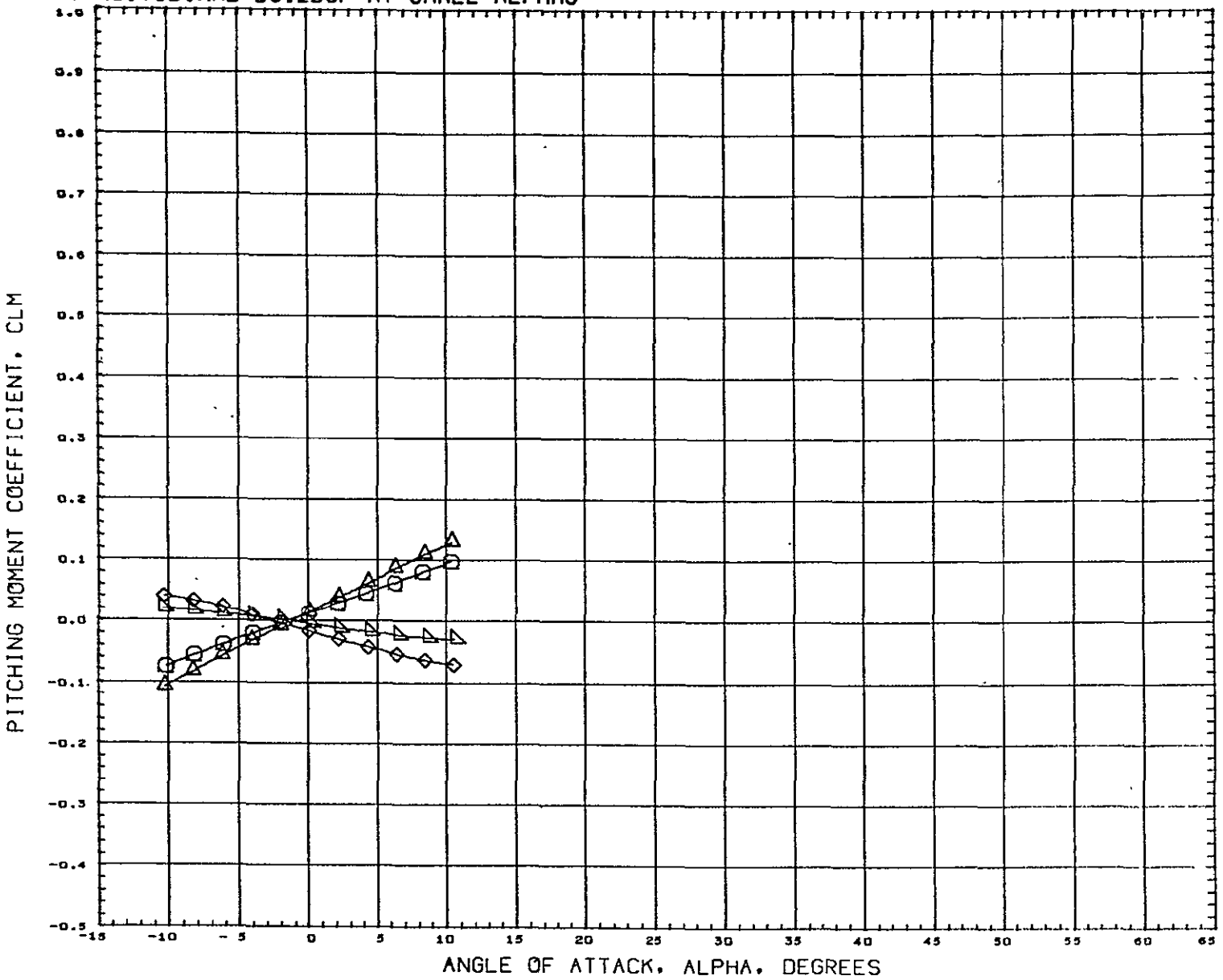


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28814)		MSFC 481 GD/C(BOOSTER)B19	0.000			
(E28815)		MSFC 481 GD/C(BOOSTER)B19C4A	0.000		0.000	
(E28816)		MSFC 481 GD/C(BOOSTER)B19W14	0.000	0.000		
(E28817)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E28820)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	

MACH 1.461

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS



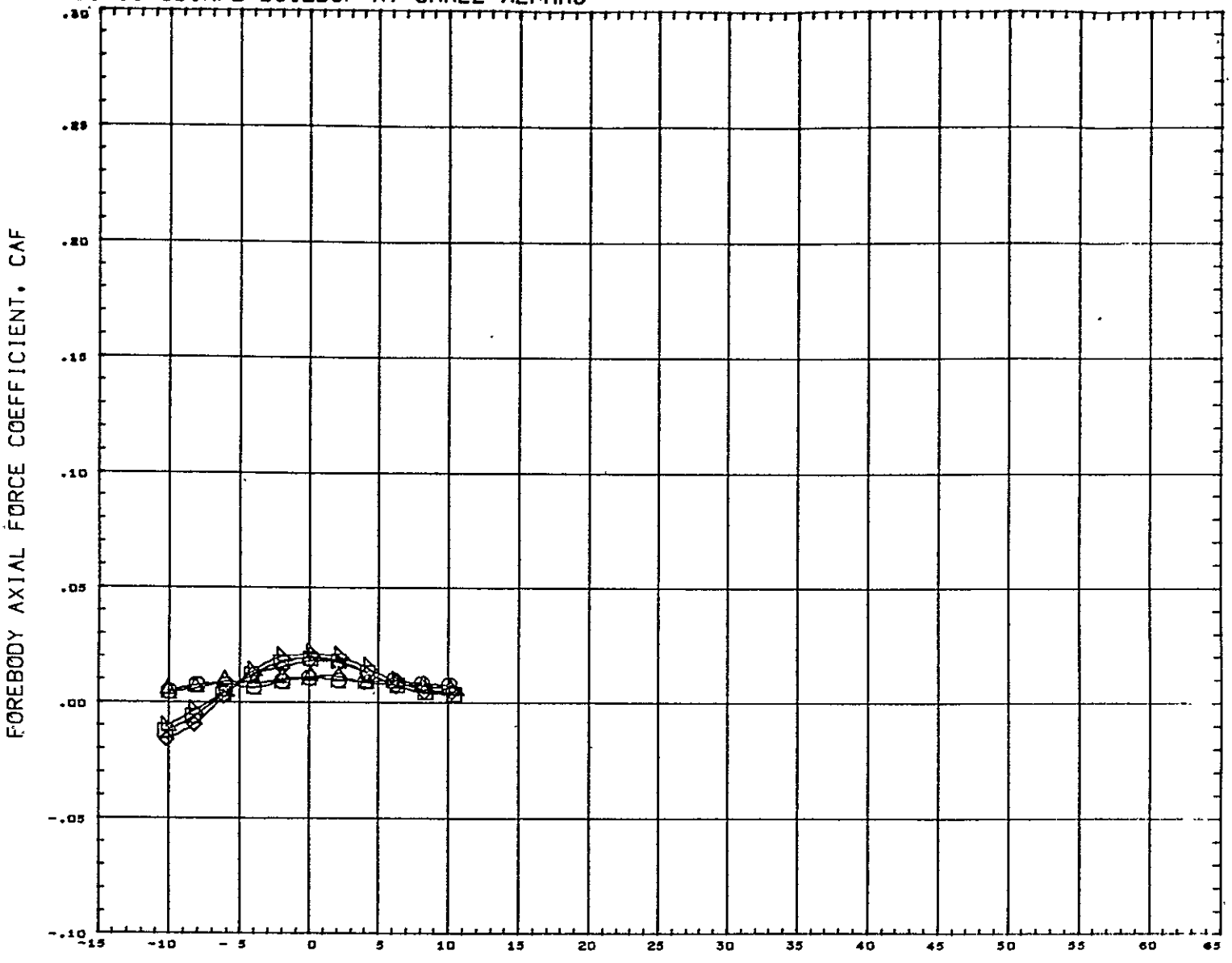
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E28814)	○	MSFC 481 GD/C(BOOSTER)B19
(E28815)	△	MSFC 481 GD/C(BOOSTER)B19C4A
(E28816)	◇	MSFC 481 GD/C(BOOSTER)B19W14
(E28817)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E28820)	↗	MSFC 481 GD/C(BOOSTER)B19W14C4AV7

MACH 1.966

BETA	ELEVON	CANARD	RUDDER
0.000			
0.000		0.000	
0.000	0.000		
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E26B14)		MSFC 481 GD/C(BOOSTER)B19
(E26B15)		MSFC 481 GD/C(BOOSTER)B19C4A
(E26B16)		MSFC 481 GD/C(BOOSTER)B19W14
(E26B17)		MSFC 481 GD/C(BOOSTER)B19W14C4A
(E26B20)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7

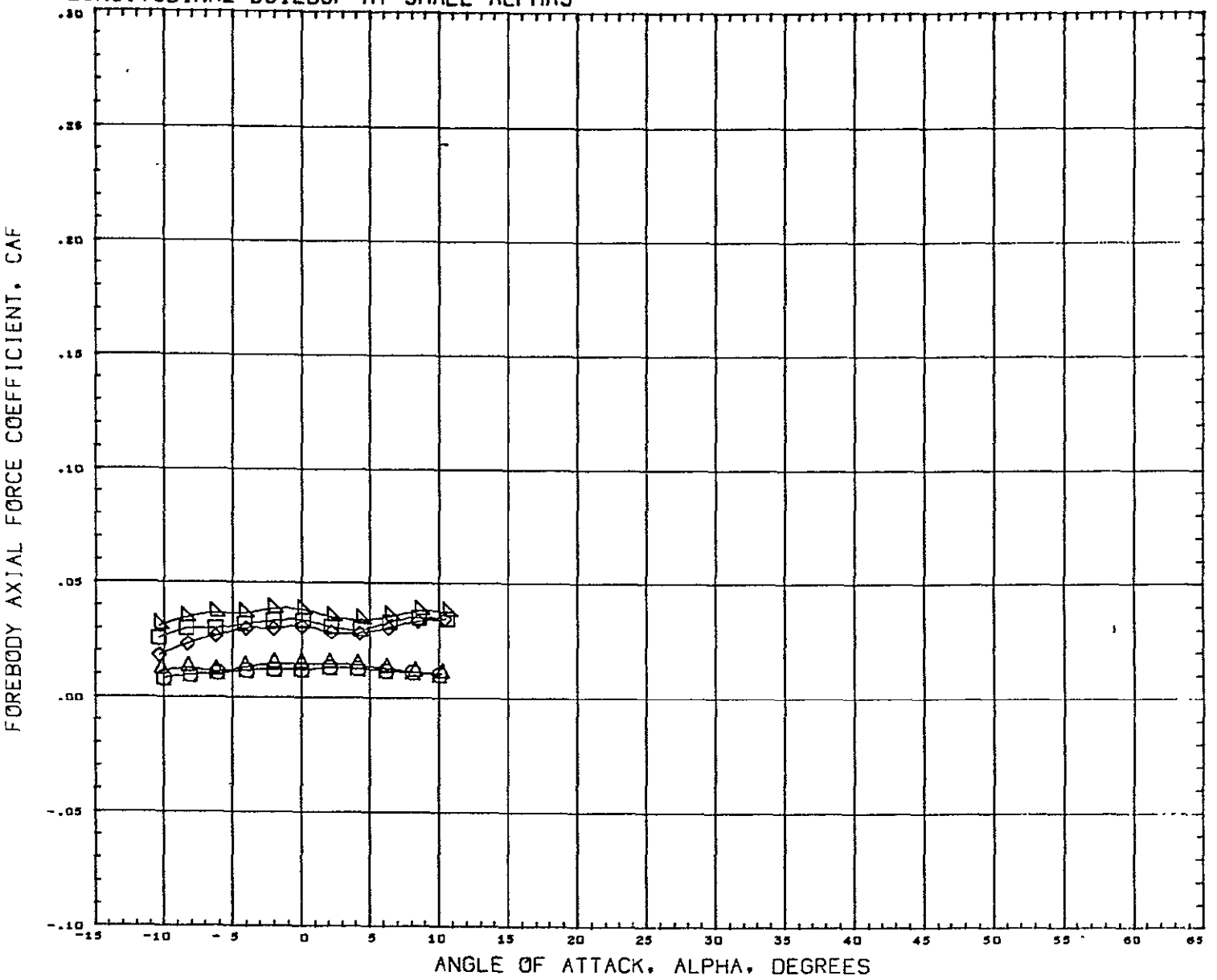
MACH 0.610

BETA	ELEVON	CANARD	RUDDER
0.000			
0.000		0.000	
0.000	0.000		
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

190

LONGITUDINAL BUILDUP AT SMALL ALPHAS



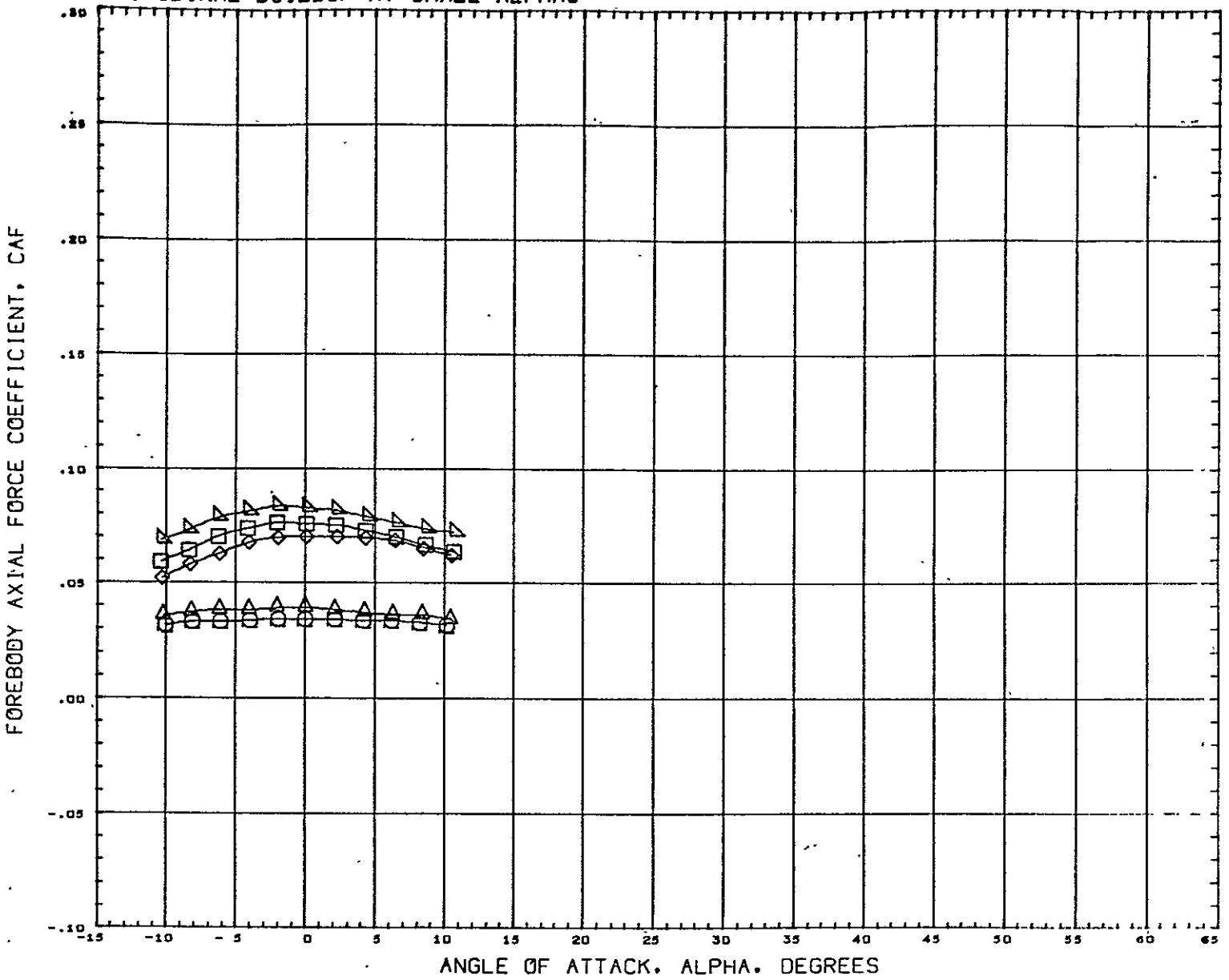
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E28B14)	○	MSFC 481 GD/C(BOOSTER)B19
(E28B15)	△	MSFC 481 GD/C(BOOSTER)B19C4A
(E28B16)	◇	MSFC 481 GD/C(BOOSTER)B19W14
(E28B17)	□	MSFC 481 GD/C(BOOSTER)B19W14C4A
(E28B20)	▽	MSFC 481 GD/C(BOOSTER)B19W14C4AV7

MACH 0.901

BETA	ELEVON	CANARD	RUDDER
0.000			
0.000		0.000	
0.000	0.000		
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS

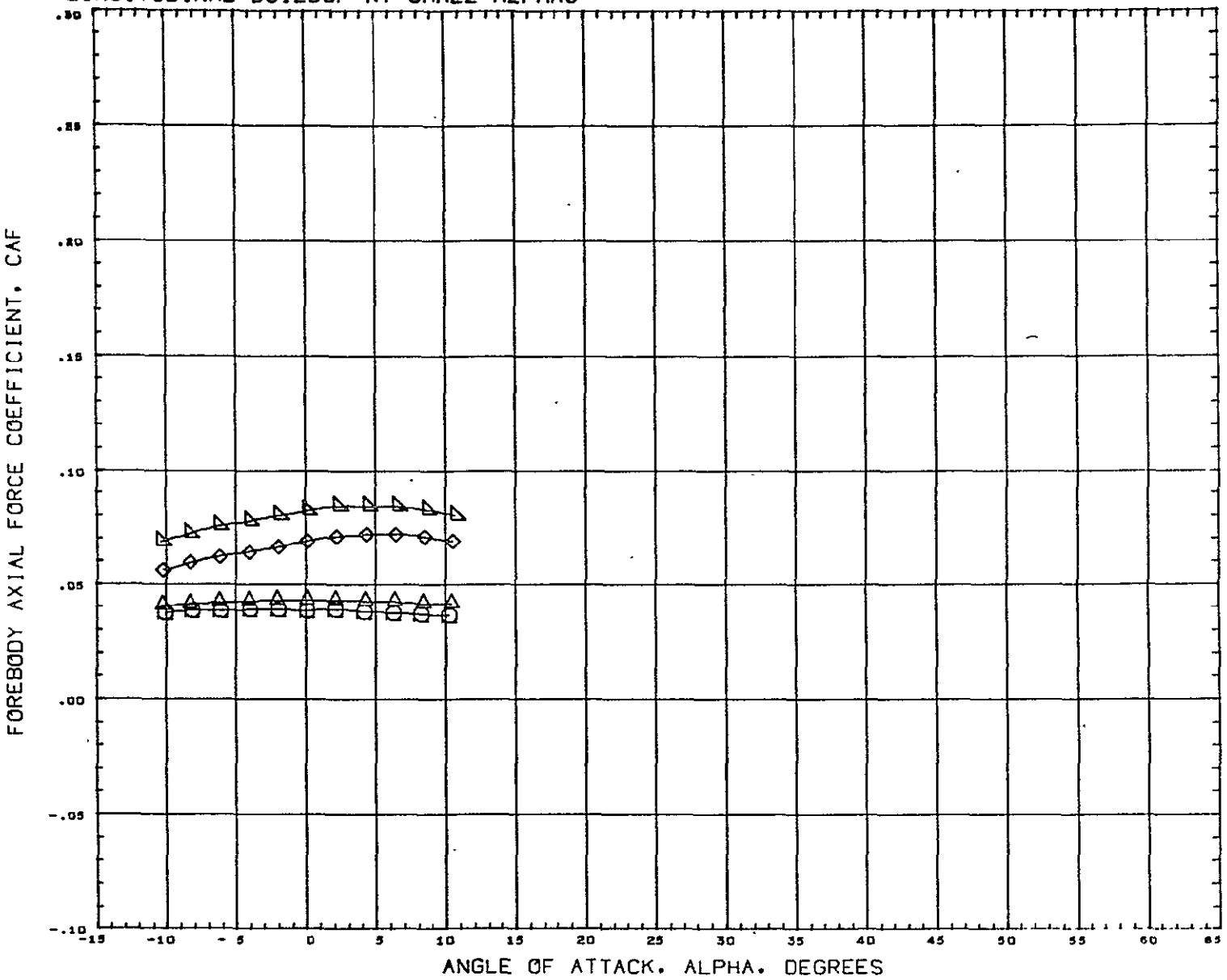


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28B14)	○	MSFC 481 GD/C(BOOSTER)B19	0.000			
(E28B15)	△	MSFC 481 GD/C(BOOSTER)B19C4A	0.000		0.000	
(E28B16)	◇	MSFC 481 GD/C(BOOSTER)B19W14	0.000	0.000		
(E28B17)	□	MSFC 481 GD/C(BOOSTER)B19W14C4A	0.000	0.000	0.000	
(E28B20)	▽	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	

MACH 1.105

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS

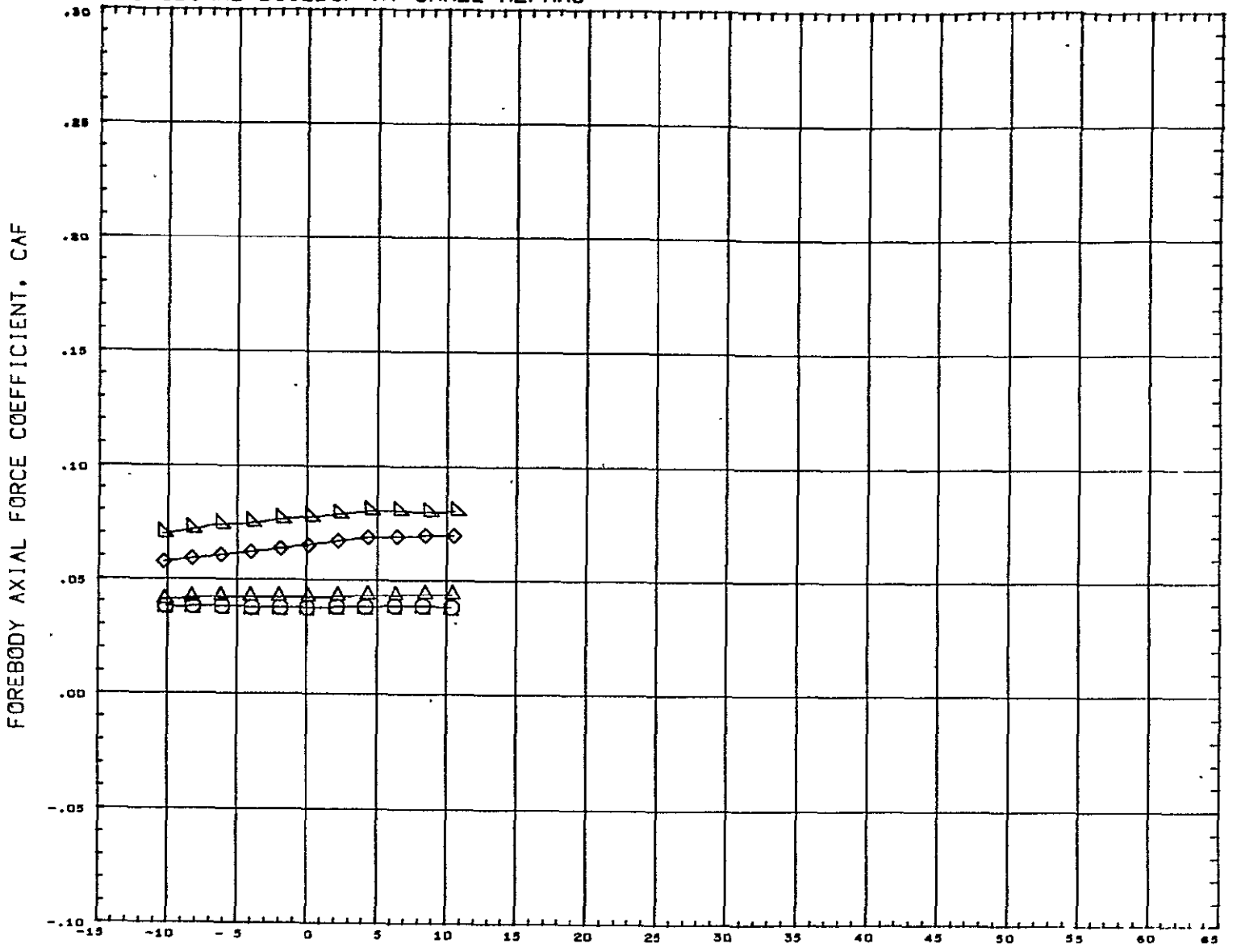


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E26B14)		MSFC 481 GD/C(BOOSTER)B19	0.000			
(E26B15)		MSFC 481 GD/C(BOOSTER)B19C4A	0.000		0.000	
(E26B16)		MSFC 481 GD/C(BOOSTER)B19W14	0.000	0.000		
(E26B17)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(E26B20)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	

MACH 1.461

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL BUILDUP AT SMALL ALPHAS



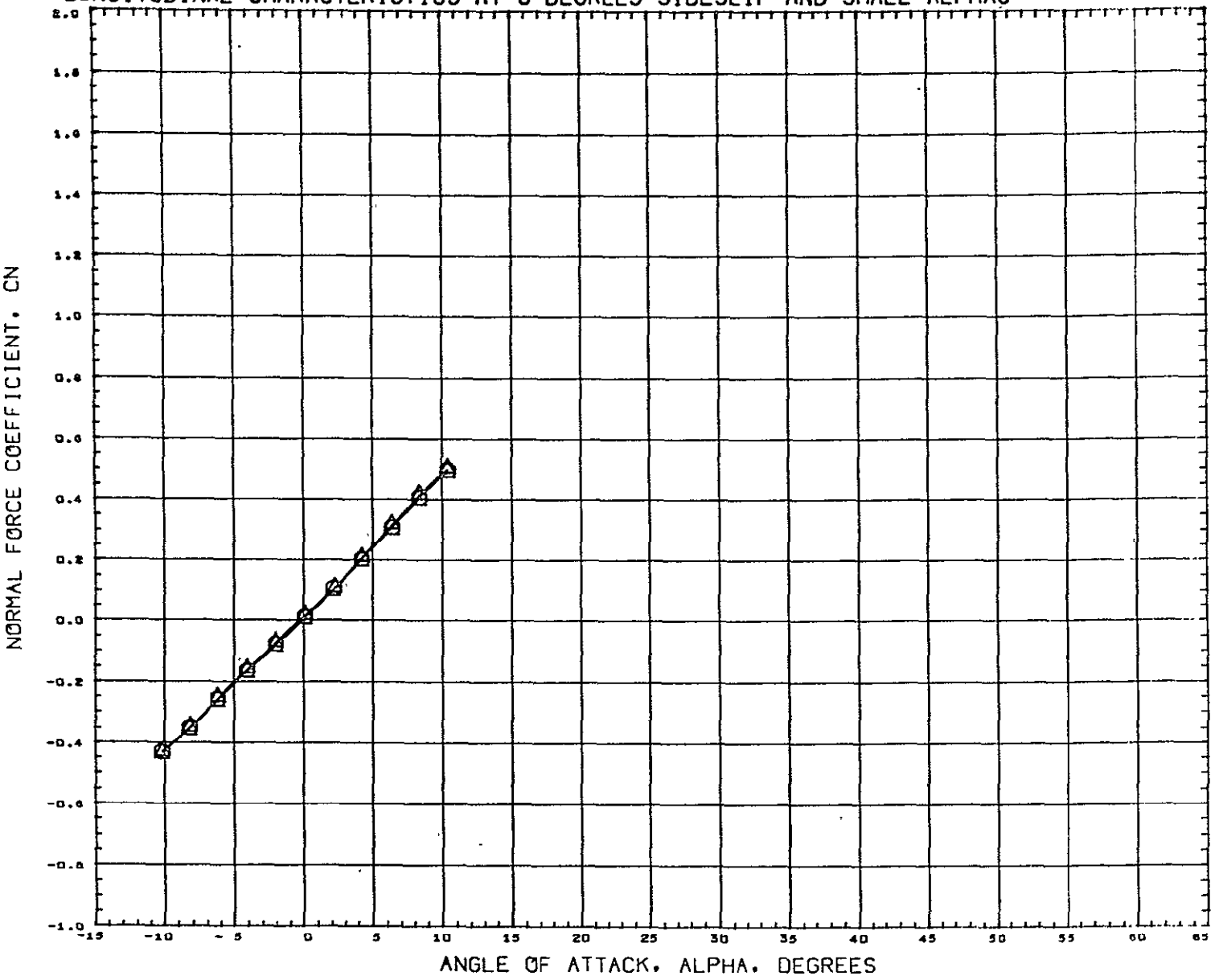
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E28B14)		HSFC 481 GD/C(BOOSTER)B19
(E28B15)		HSFC 481 GD/C(BOOSTER)B19C4A
(E28B16)		HSFC 481 GD/C(BOOSTER)B19W14
(E28B17)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(E28B20)		HSFC 481 GD/C(BOOSTER)B19W14C4AV7

MACH 1.966

BETA	ELEVON	CANARD	RUDDER
0.000			
0.000		0.000	
0.000	0.000		
0.000	0.000	0.000	
0.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

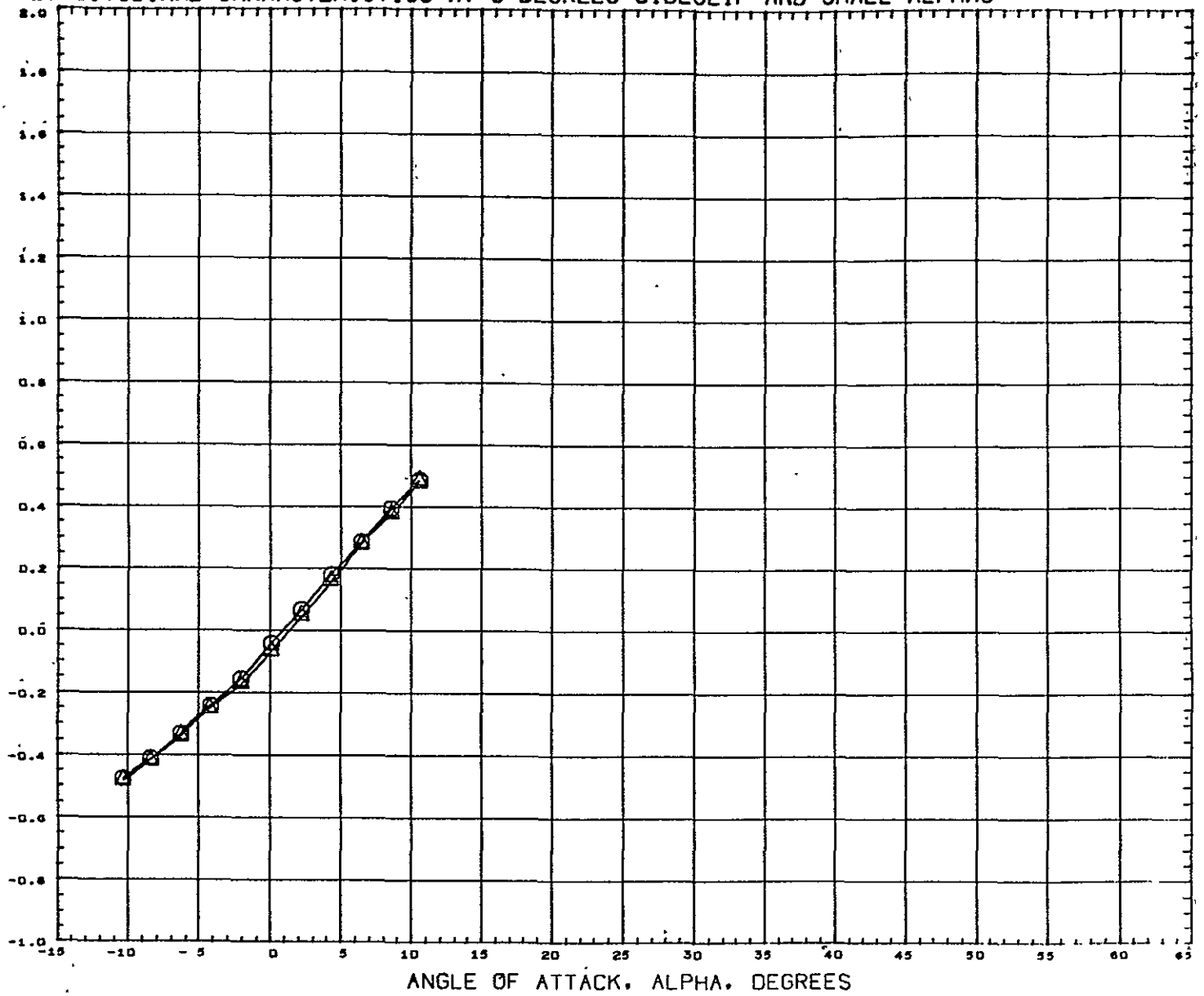


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28818)	○	MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E28819)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

MACH 0.609

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

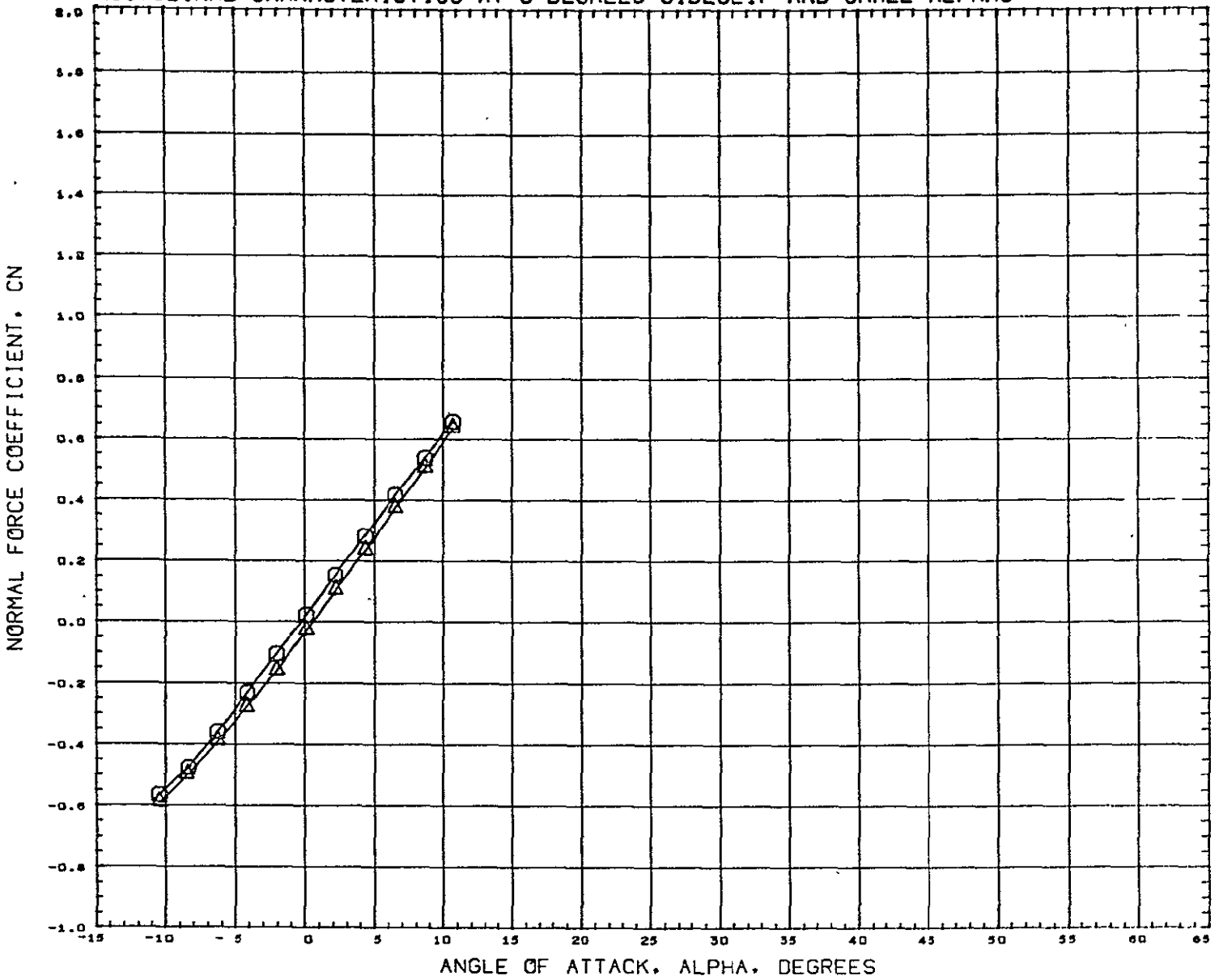


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E26B18)	○	HSFC 461 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E26B19)	△	HSFC 461 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.906

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

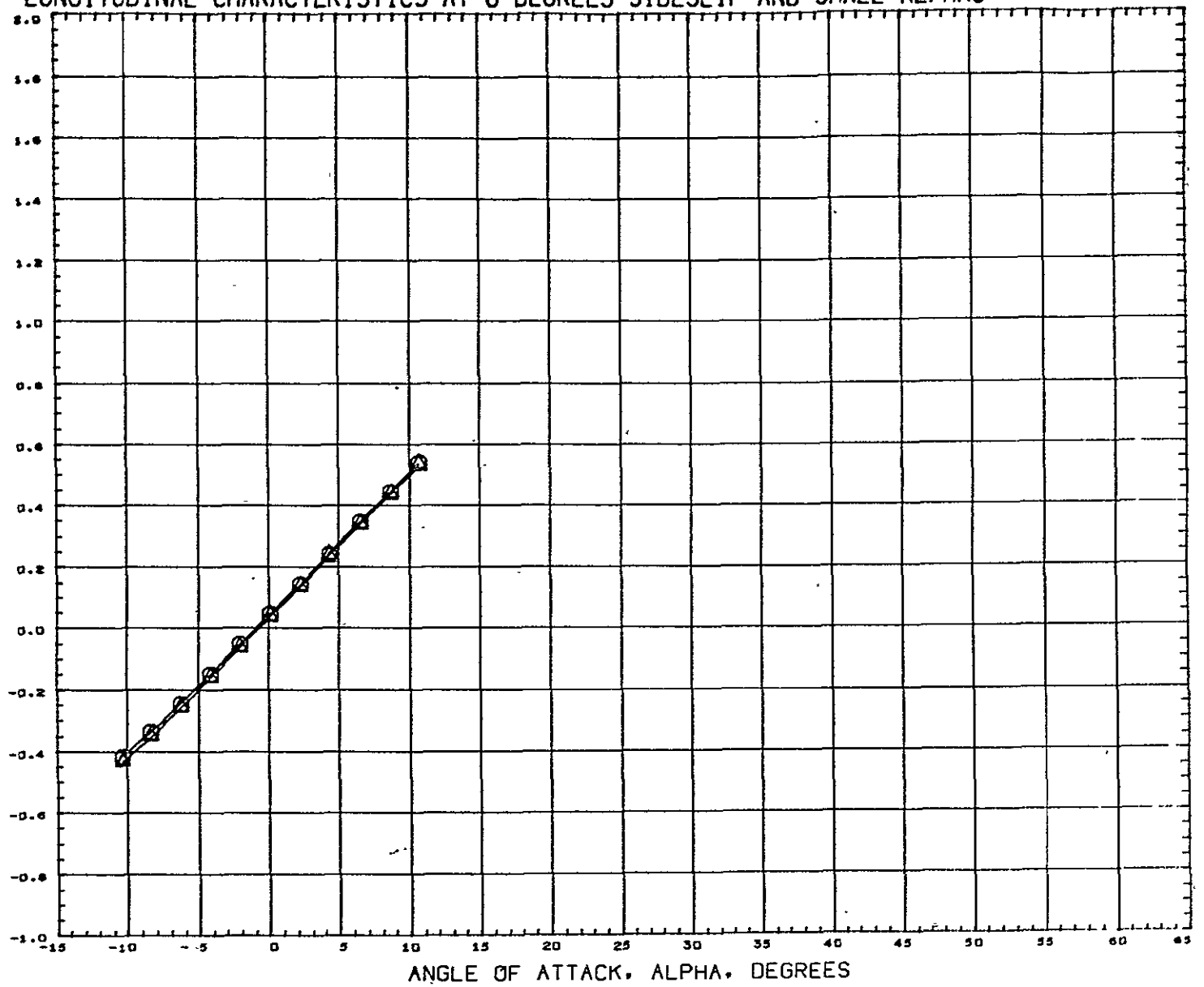


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E26818)	○	MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E26819)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.103

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

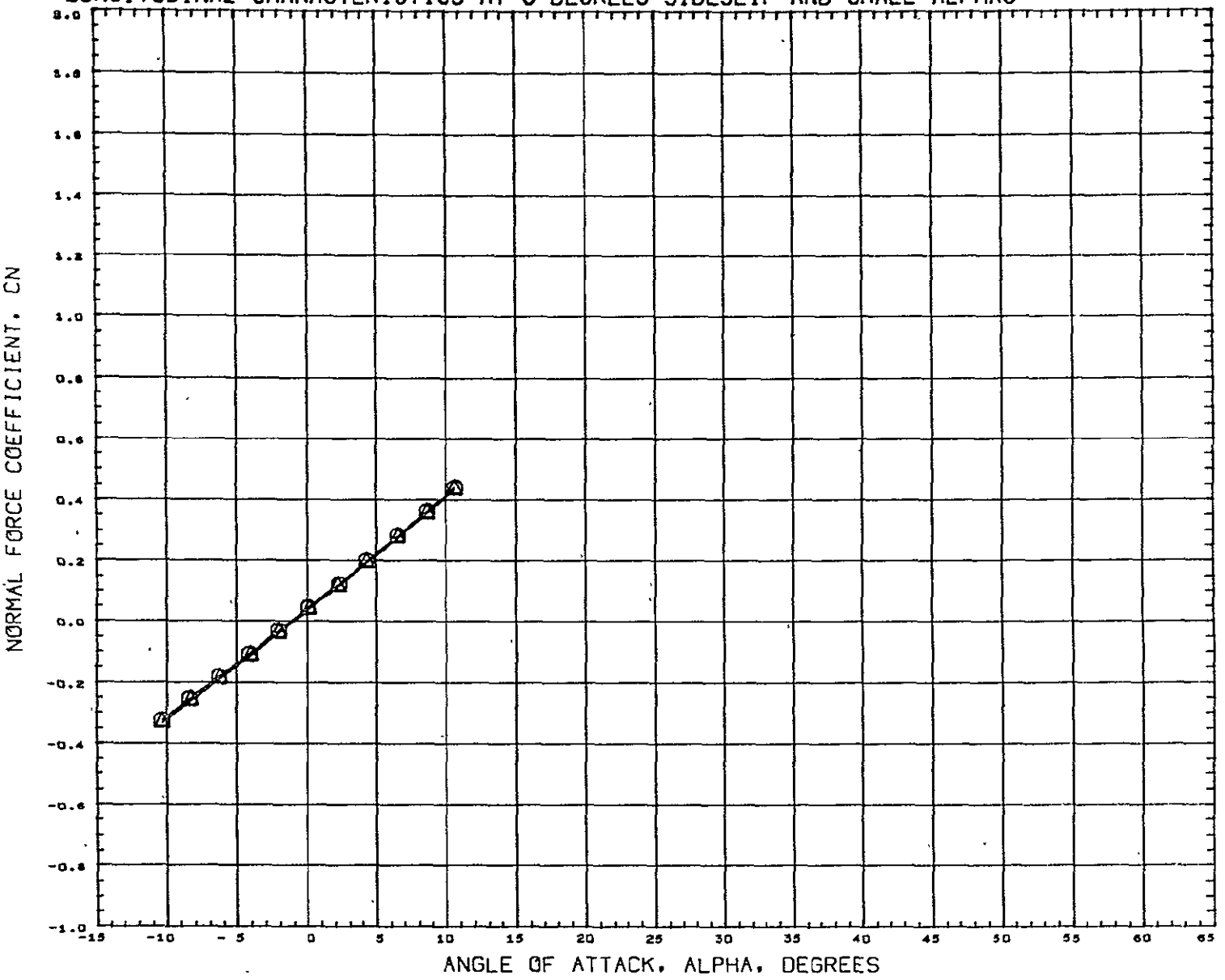


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E26818)	○	MSFC 461 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E26819)	△	MSFC 461 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.463

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

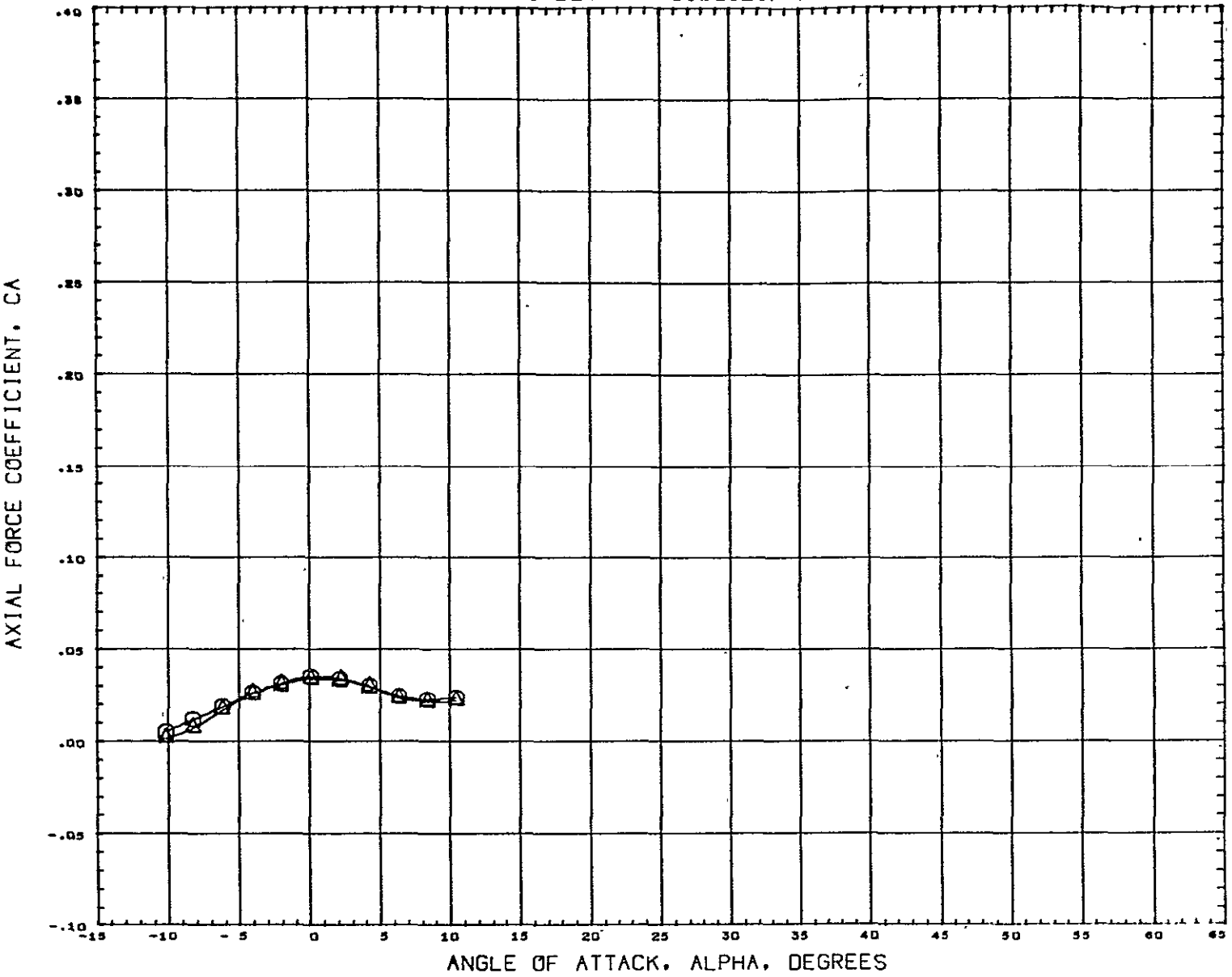


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28818)	○	MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E28819)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.971

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

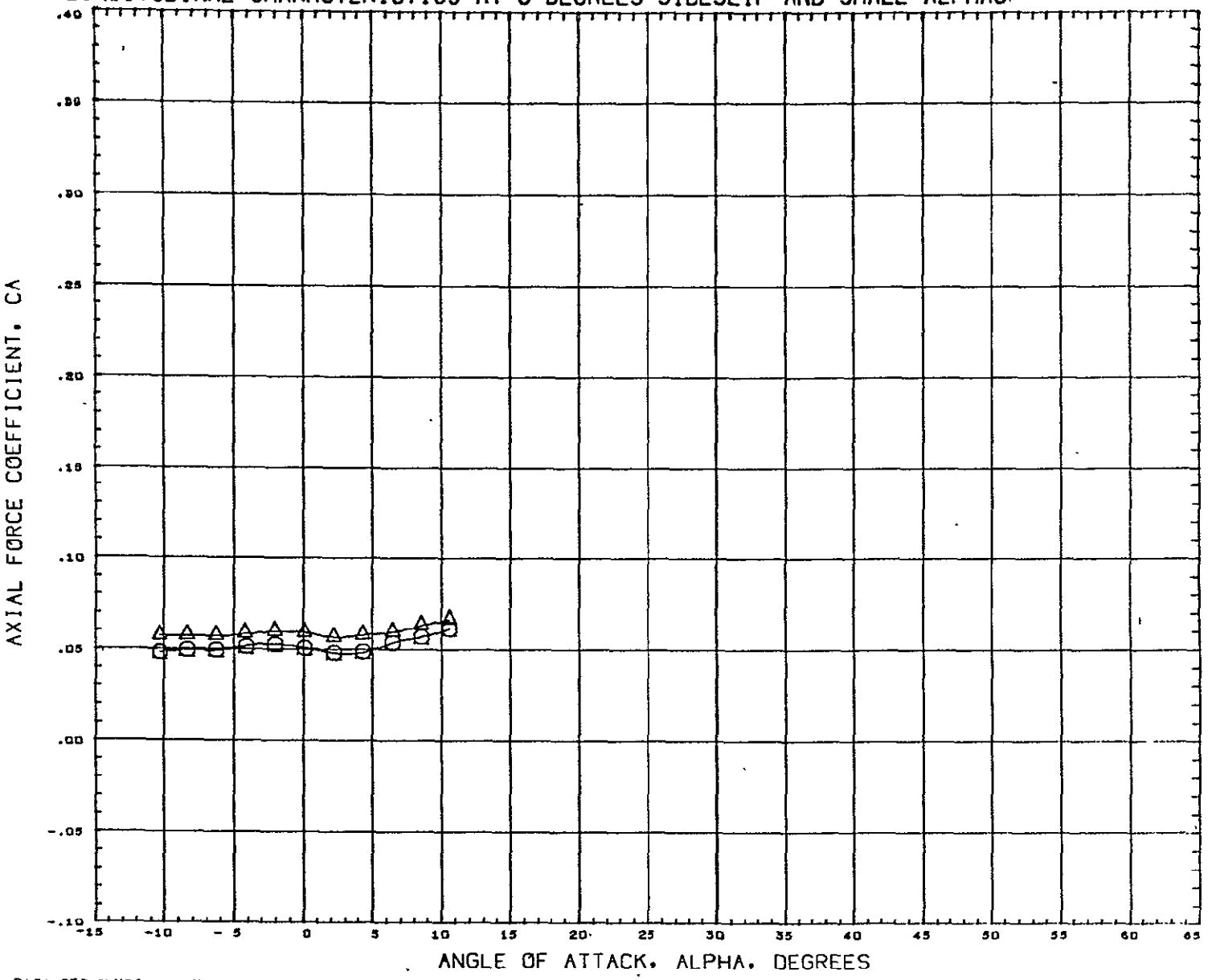


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28816)	○	MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E28819)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.609

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS.



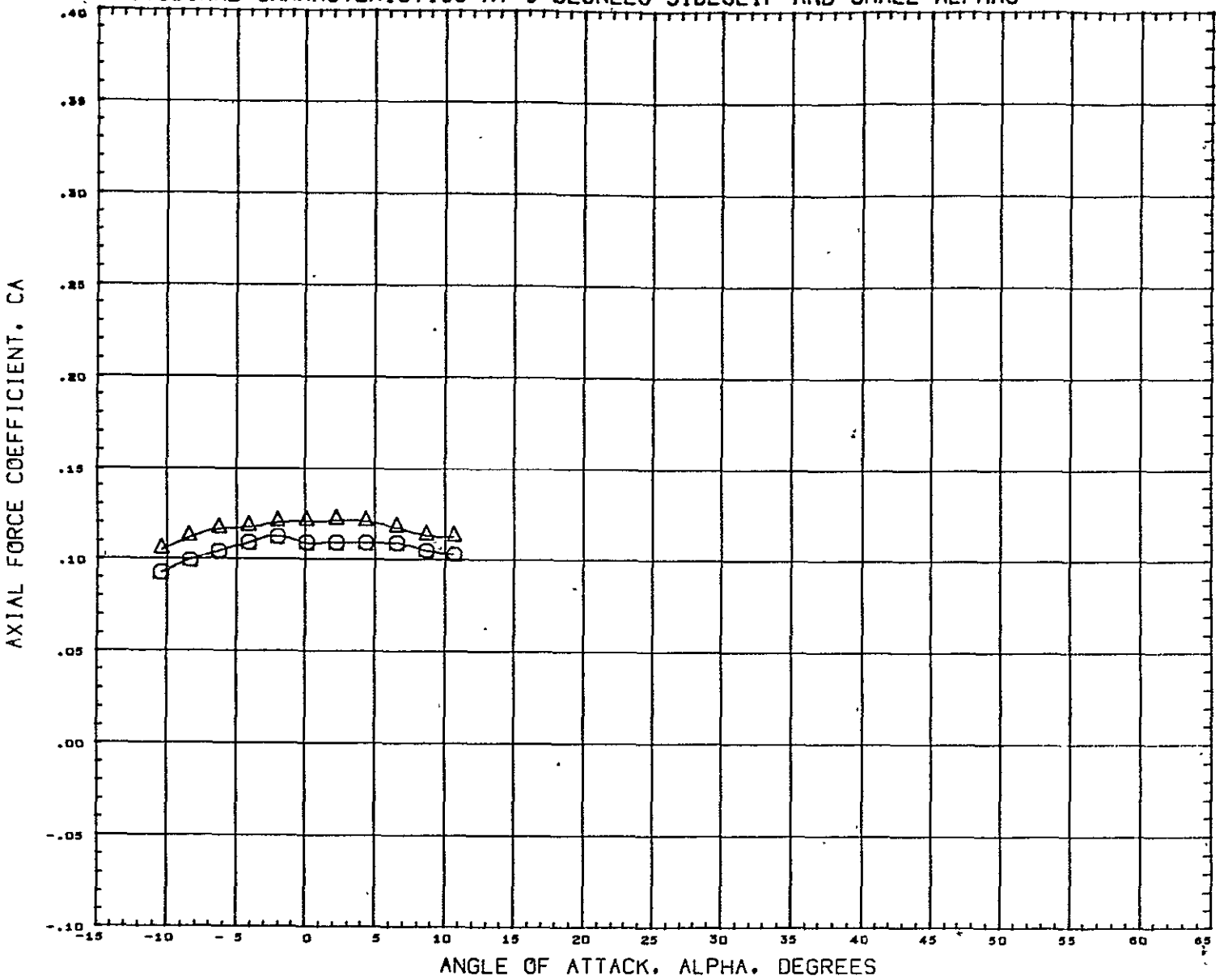
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E28816)	○	MSFC 401 GD/C(BOOSTER)B19W14C4A
(E28819)	△	MSFC 401 GD/C(BOOSTER)B19W14C4AV7

BETA	ELEVON	CANARD	RUDDER
6.000	0.000	0.000	
6.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.906

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

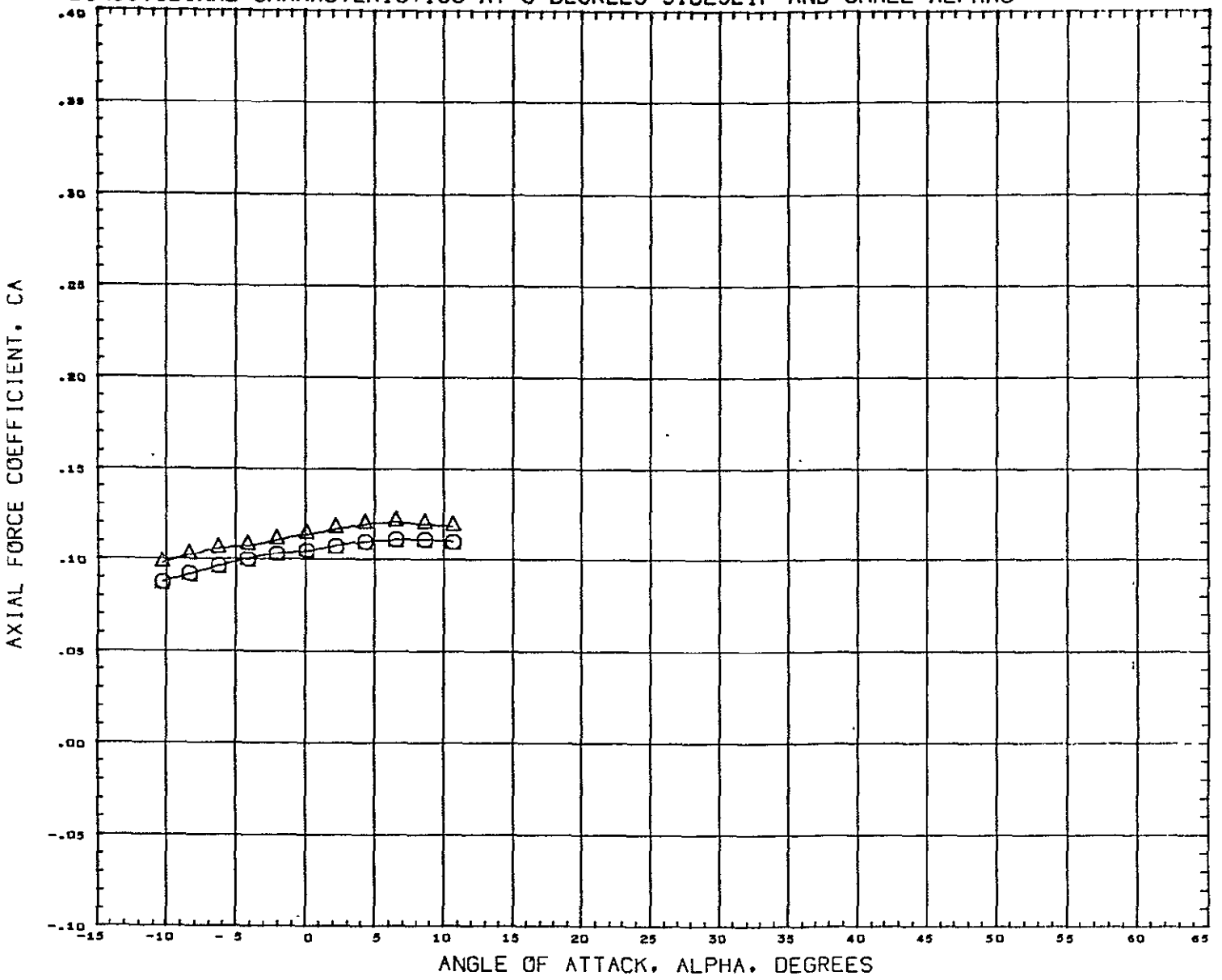


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28816)	○	MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E28819)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

MACH 1.103

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

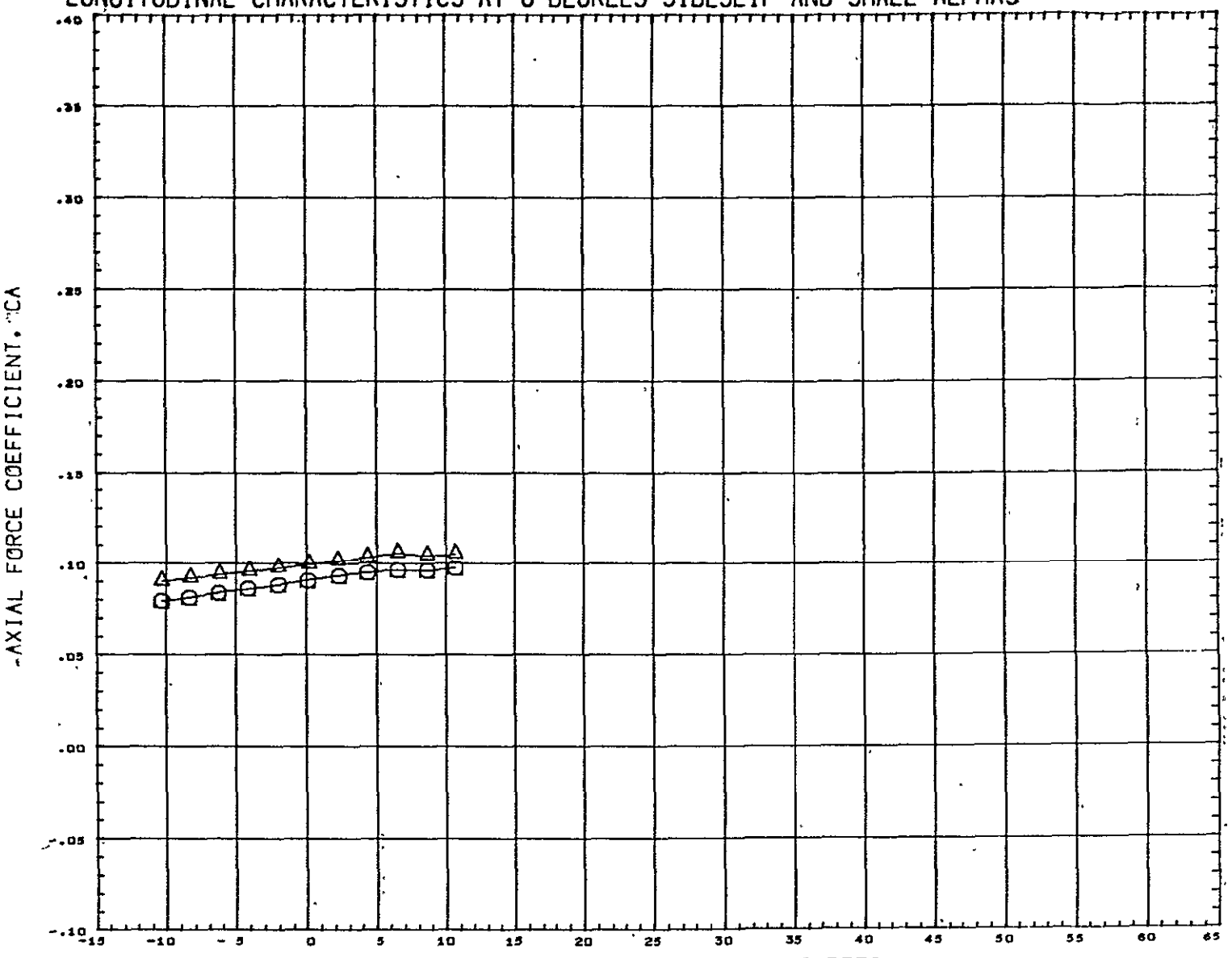


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28816)	○	MSFC 461 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E28819)	△	MSFC 461 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.463

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS



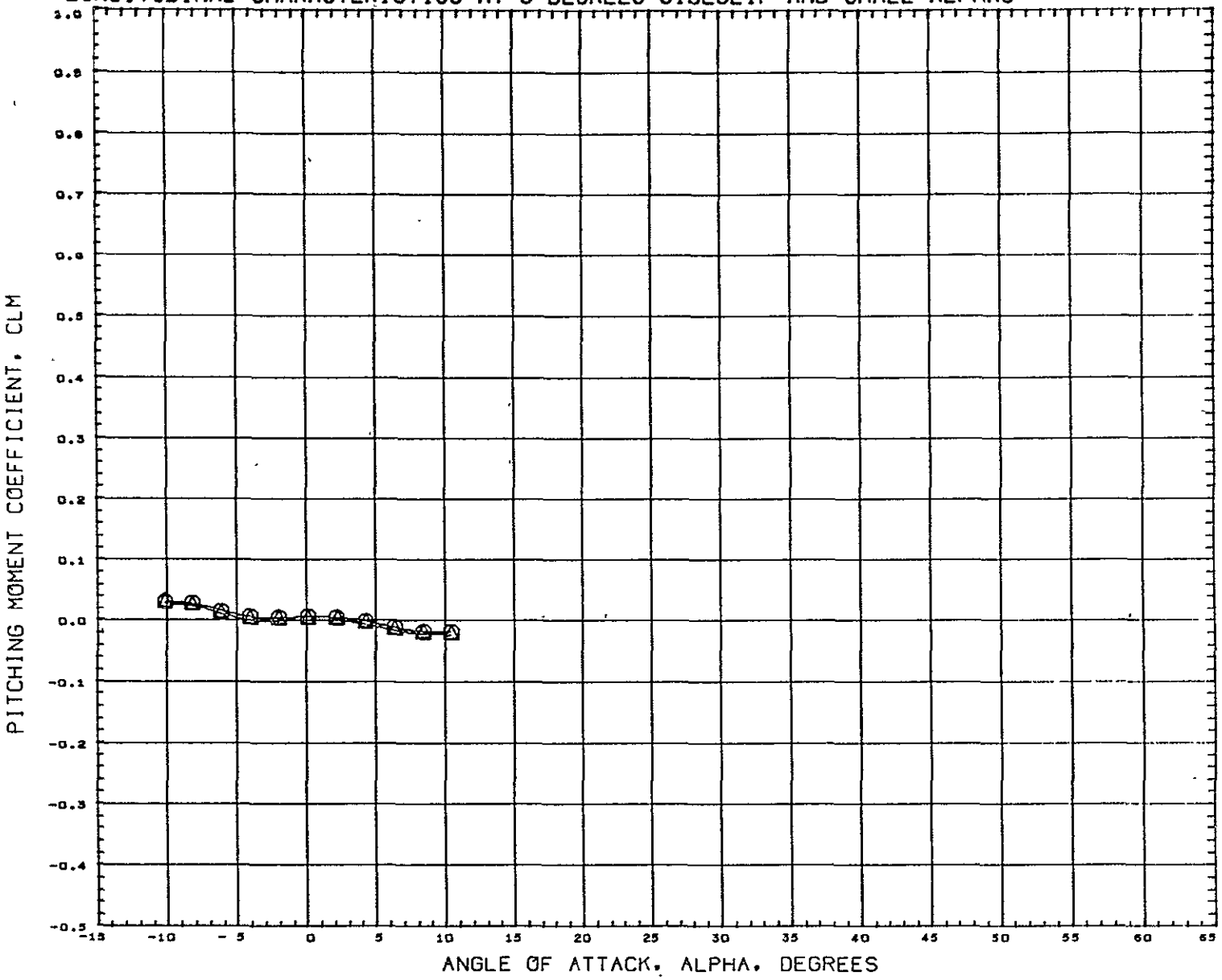
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28B18)	○	MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E28B19)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.971

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

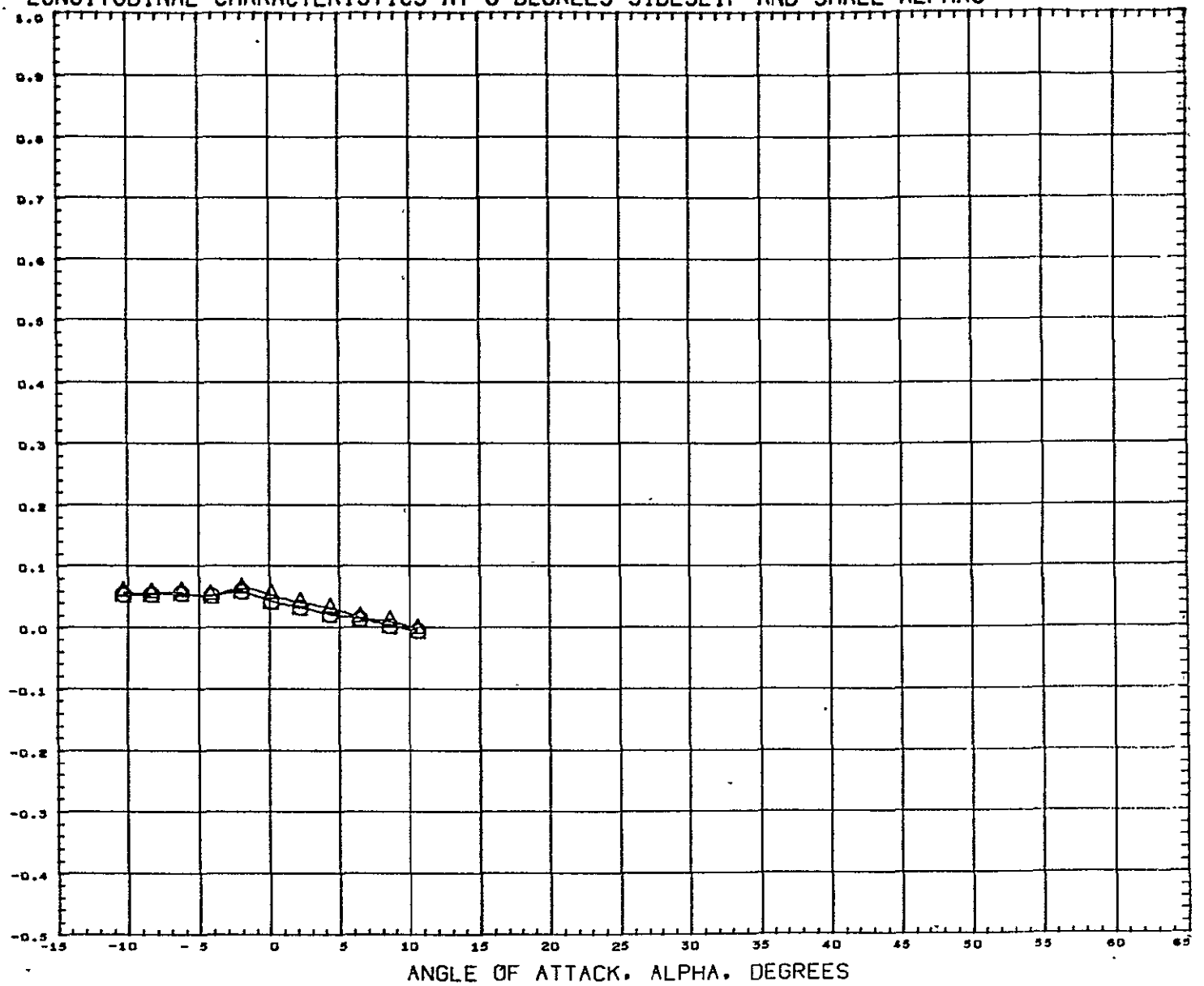


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28810)	○	MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E28819)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.609

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

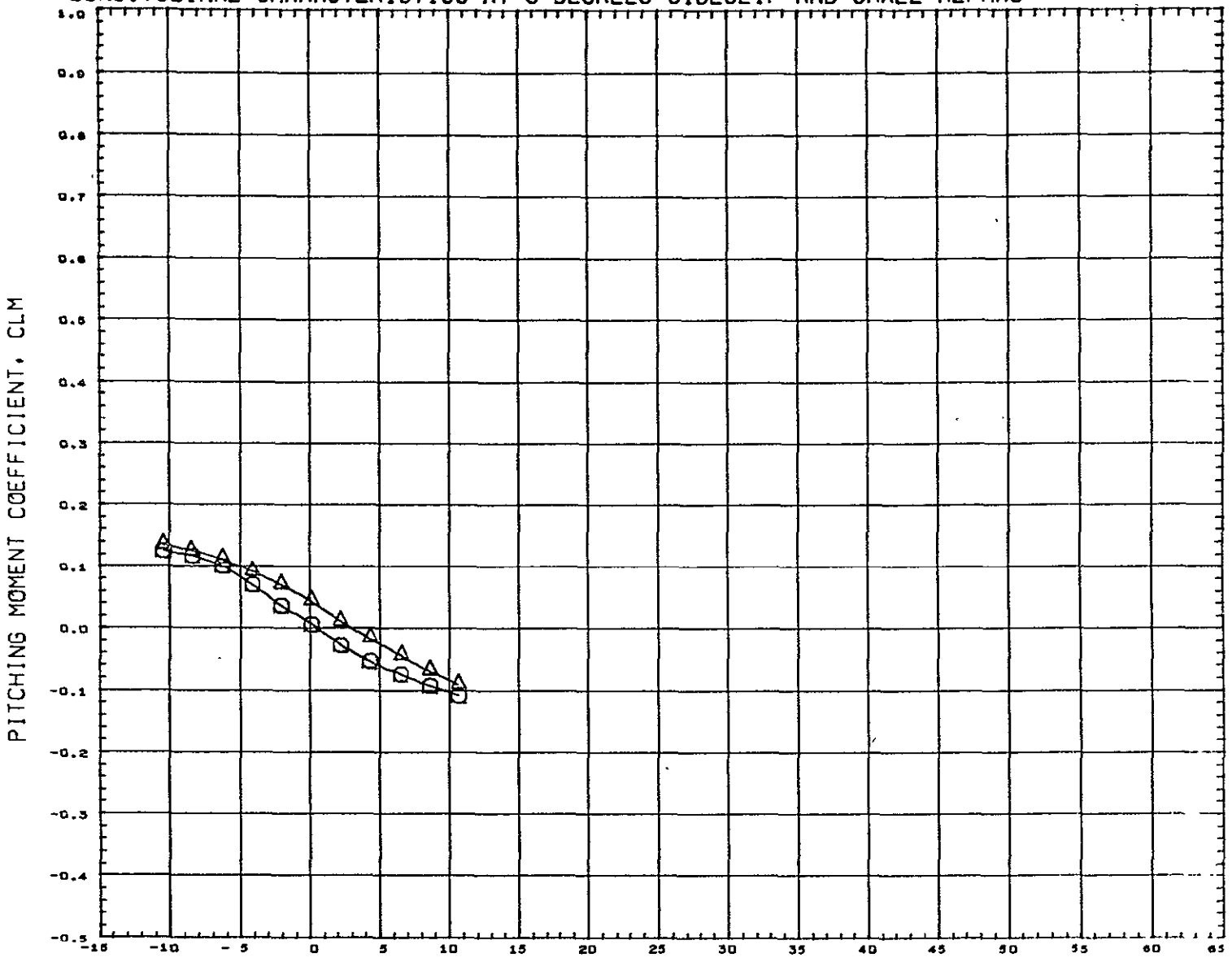


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E26B16)		MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E26B19)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.906

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

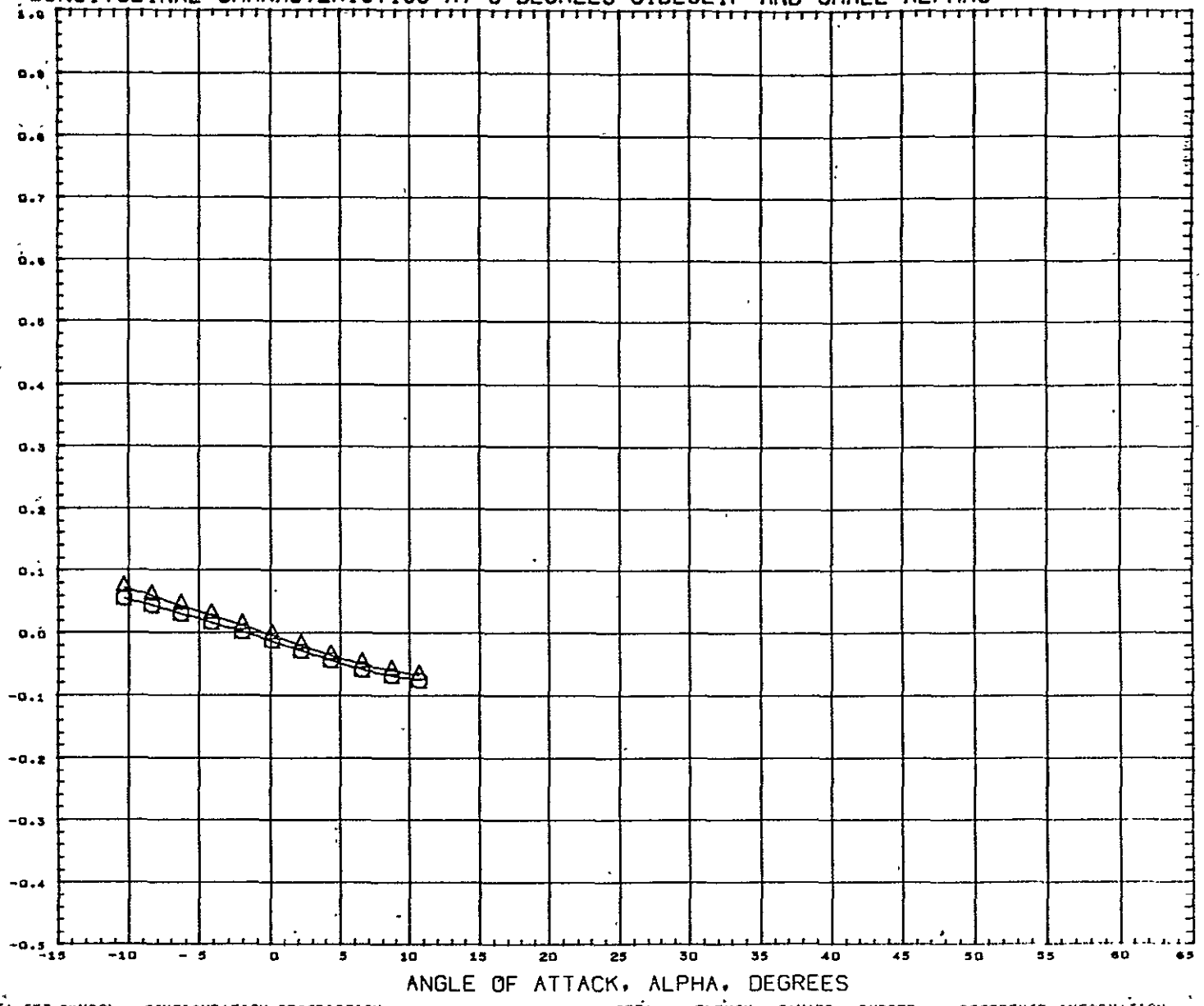


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E26B18)	○	MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E26B19)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.103

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

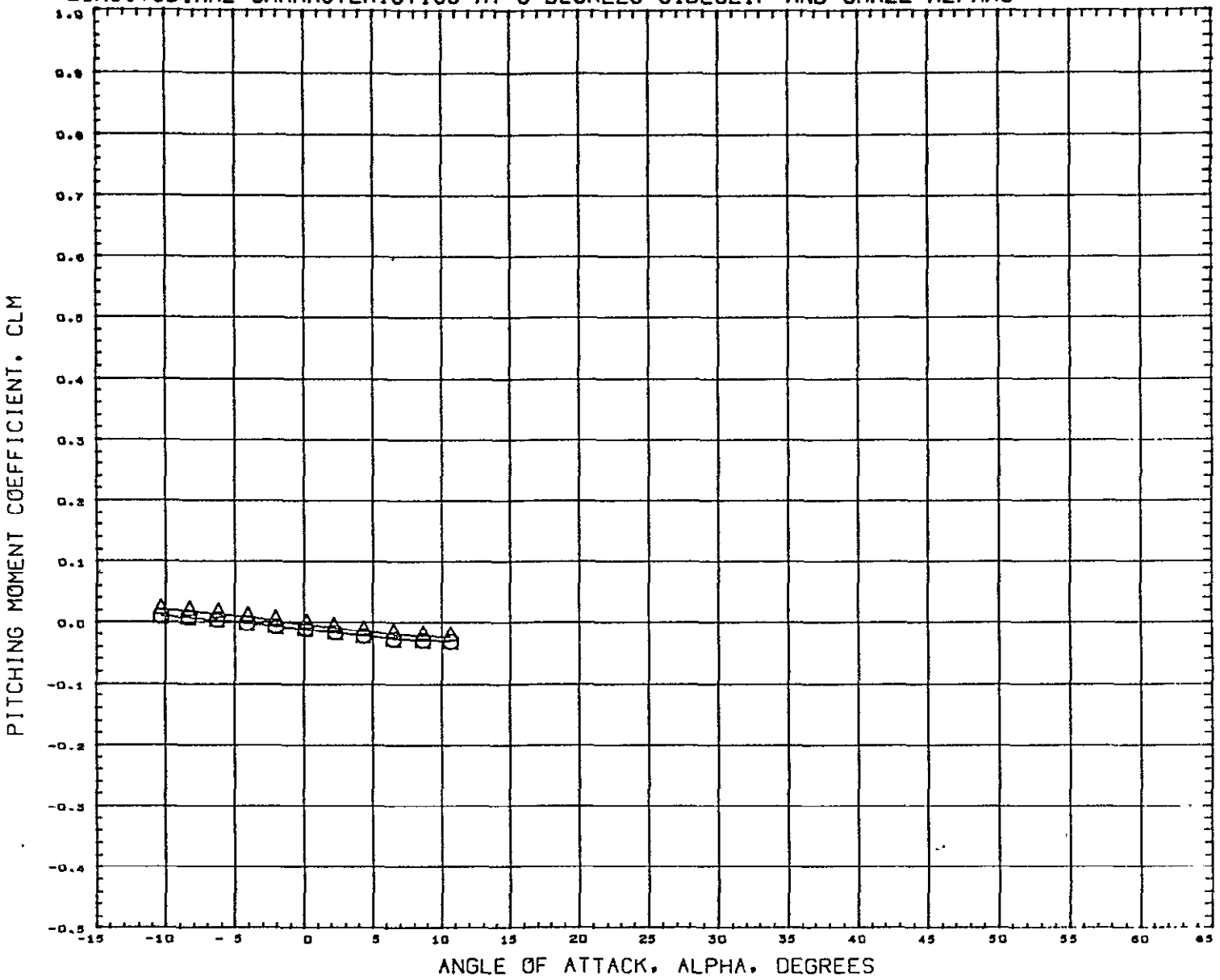


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E20818)		MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E20819)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.463

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

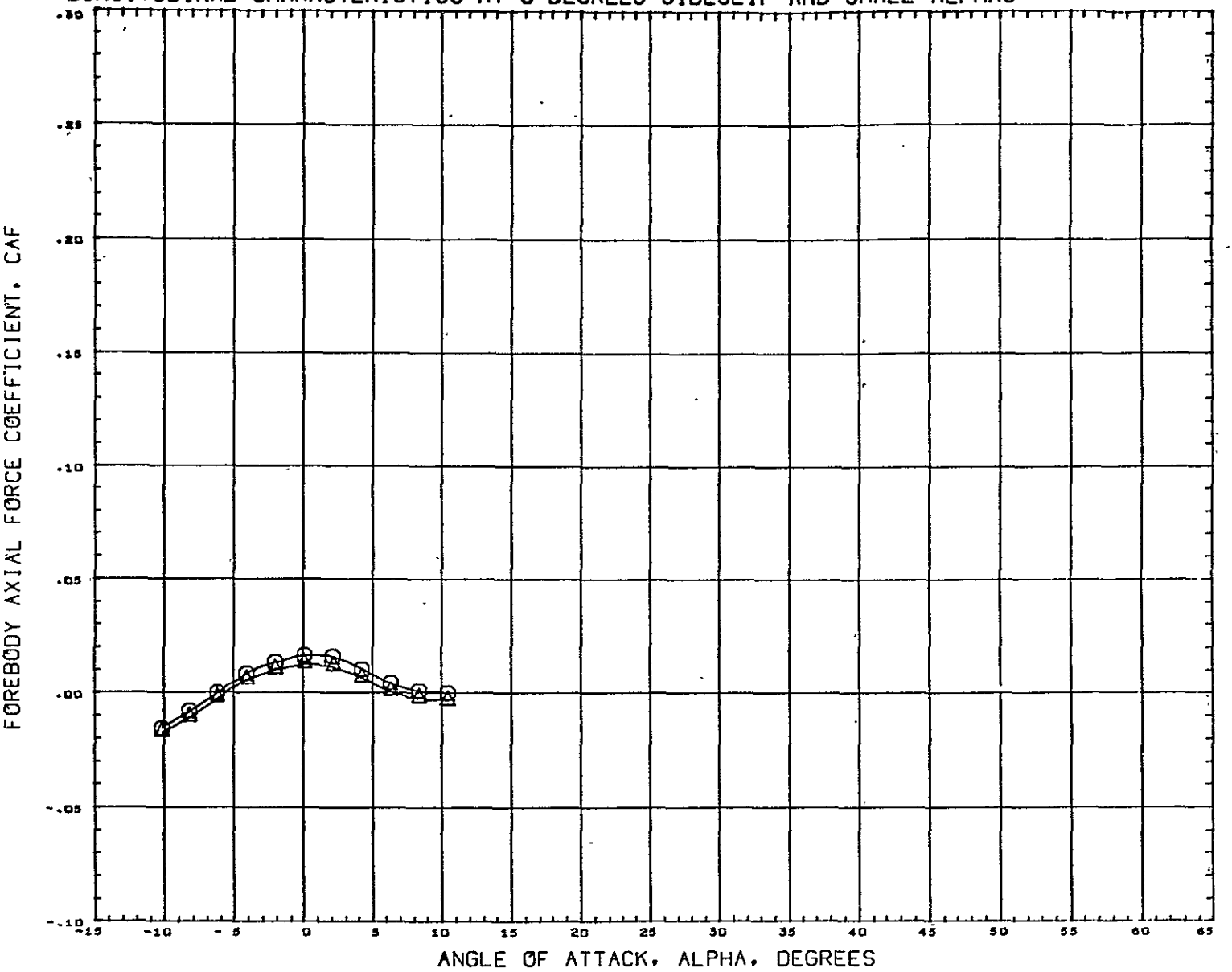


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28818)		MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E28819)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.971

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

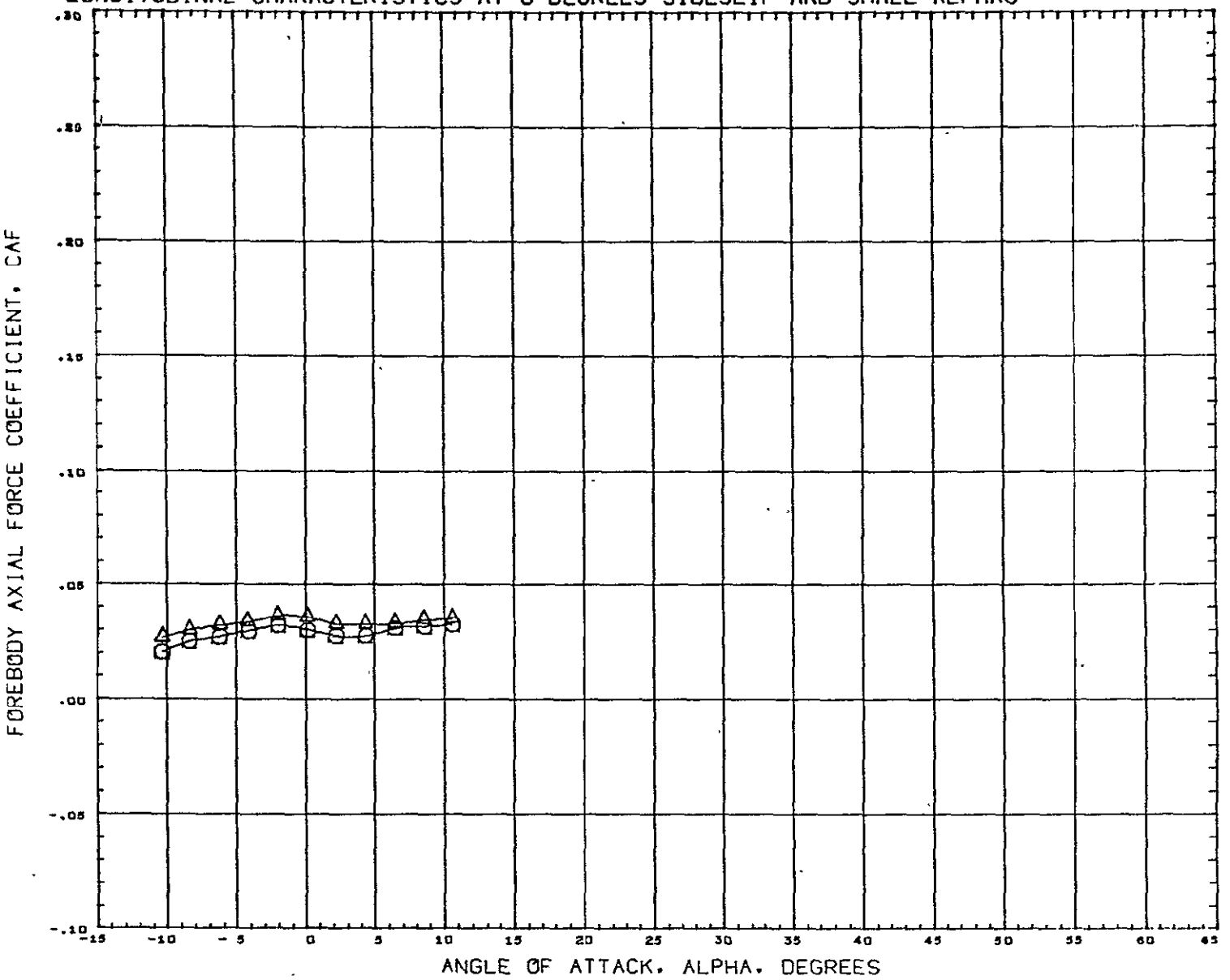


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28B18)	○	MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E28B19)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

MACH 0.609

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

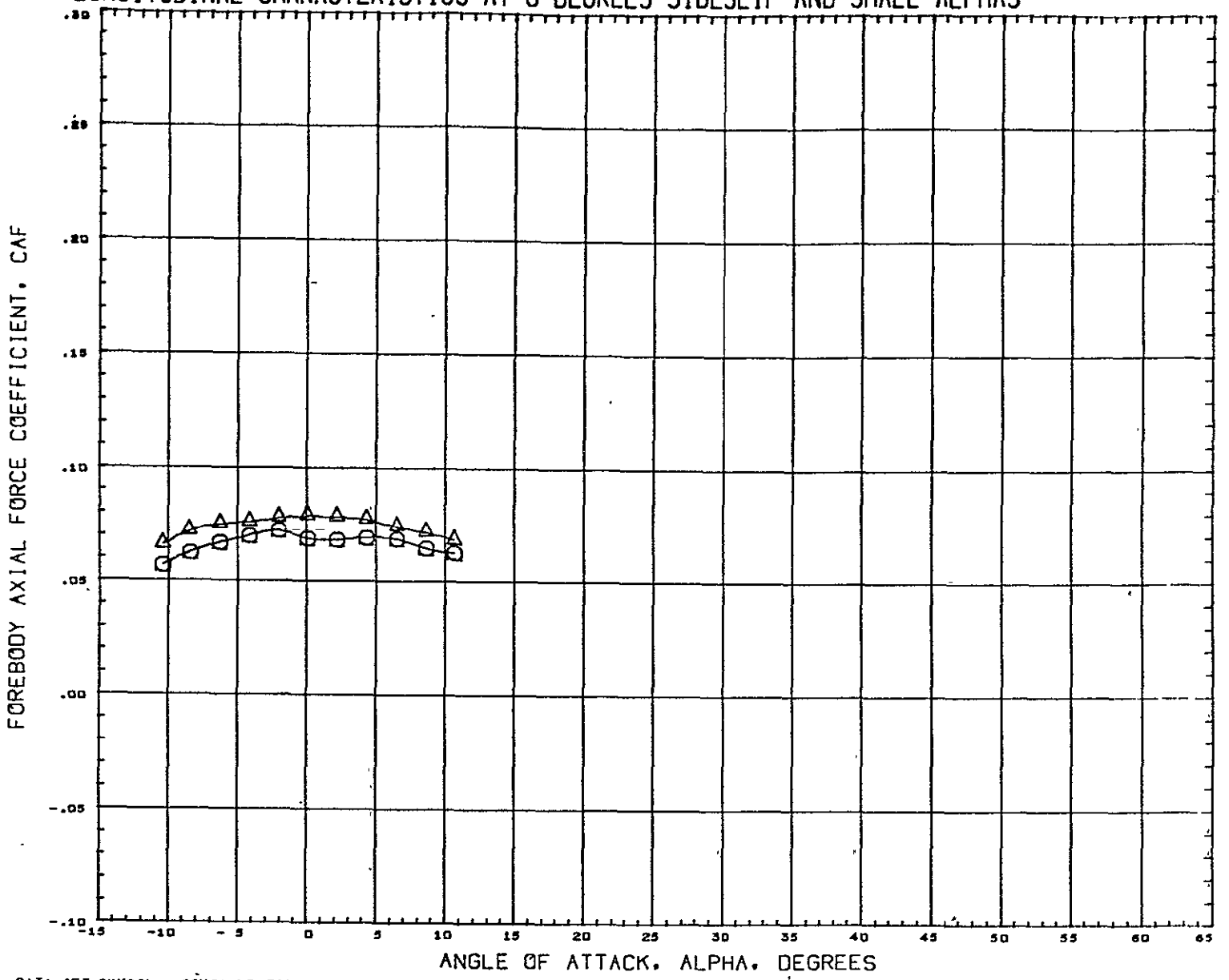


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28818)		MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E28819)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	19.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.906

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

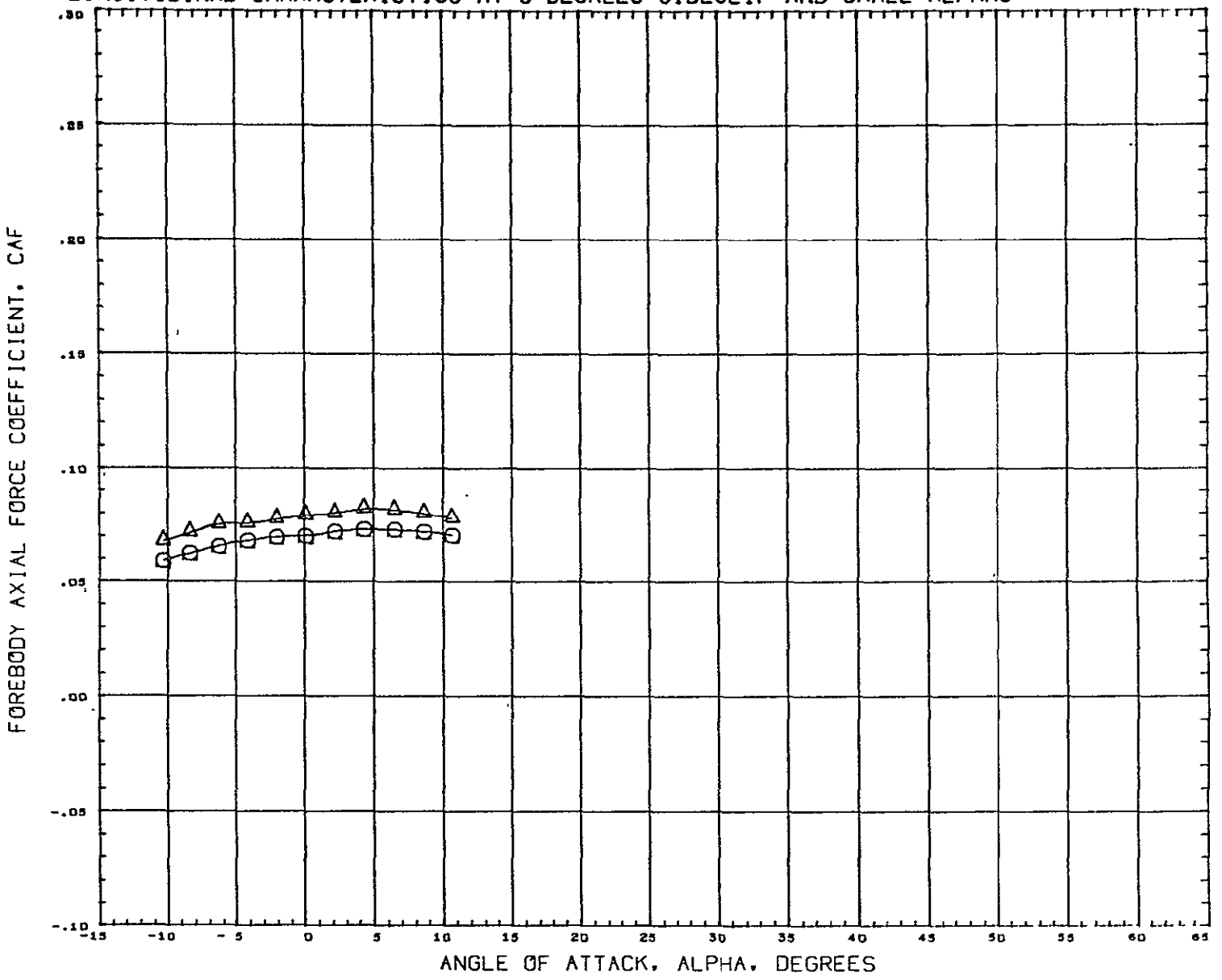


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28818)	○	MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E28819)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

MACH 1.103

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS

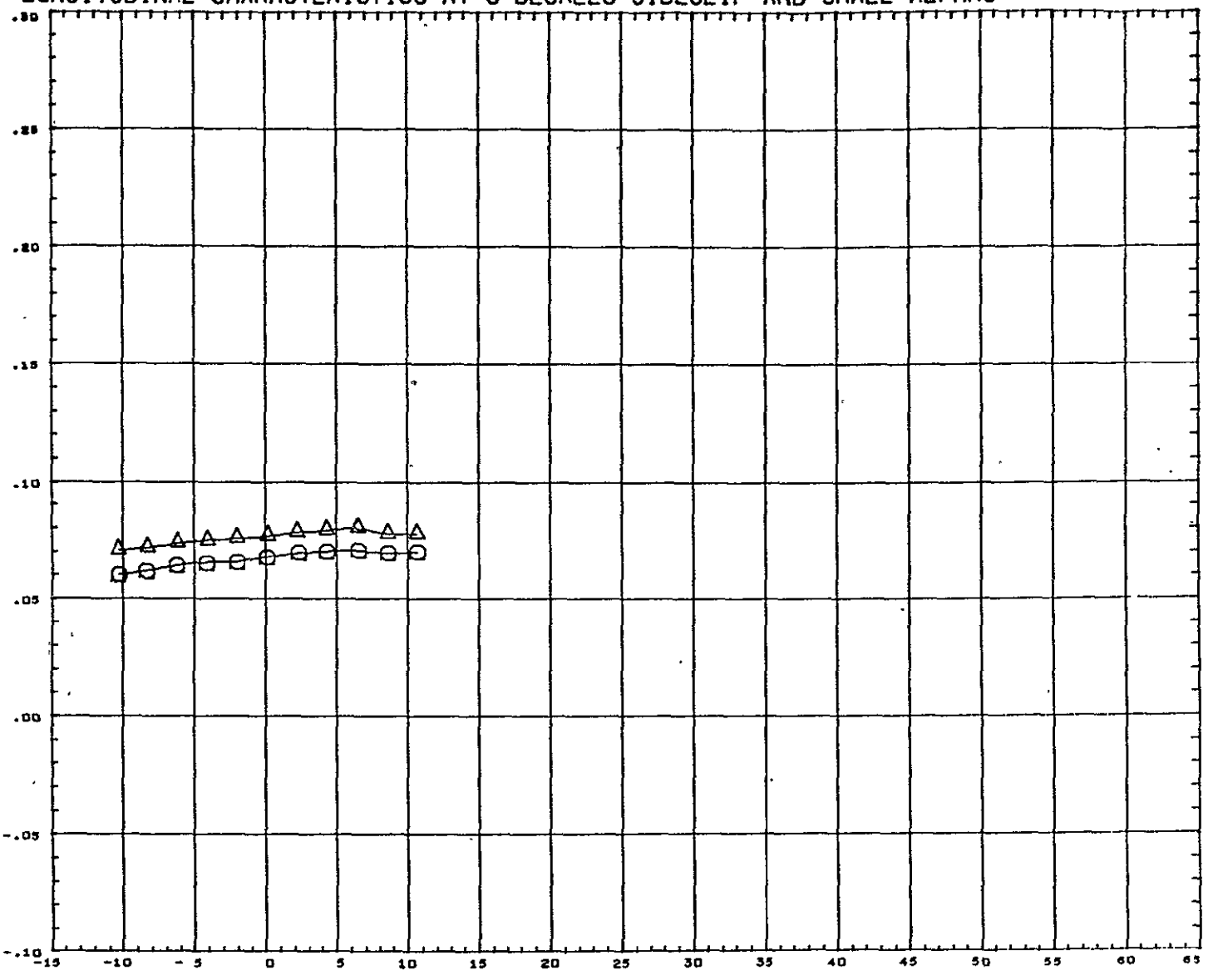


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E28818)		MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E28819)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

MACH 1.463

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

LONGITUDINAL CHARACTERISTICS AT 6 DEGREES SIDESLIP AND SMALL ALPHAS



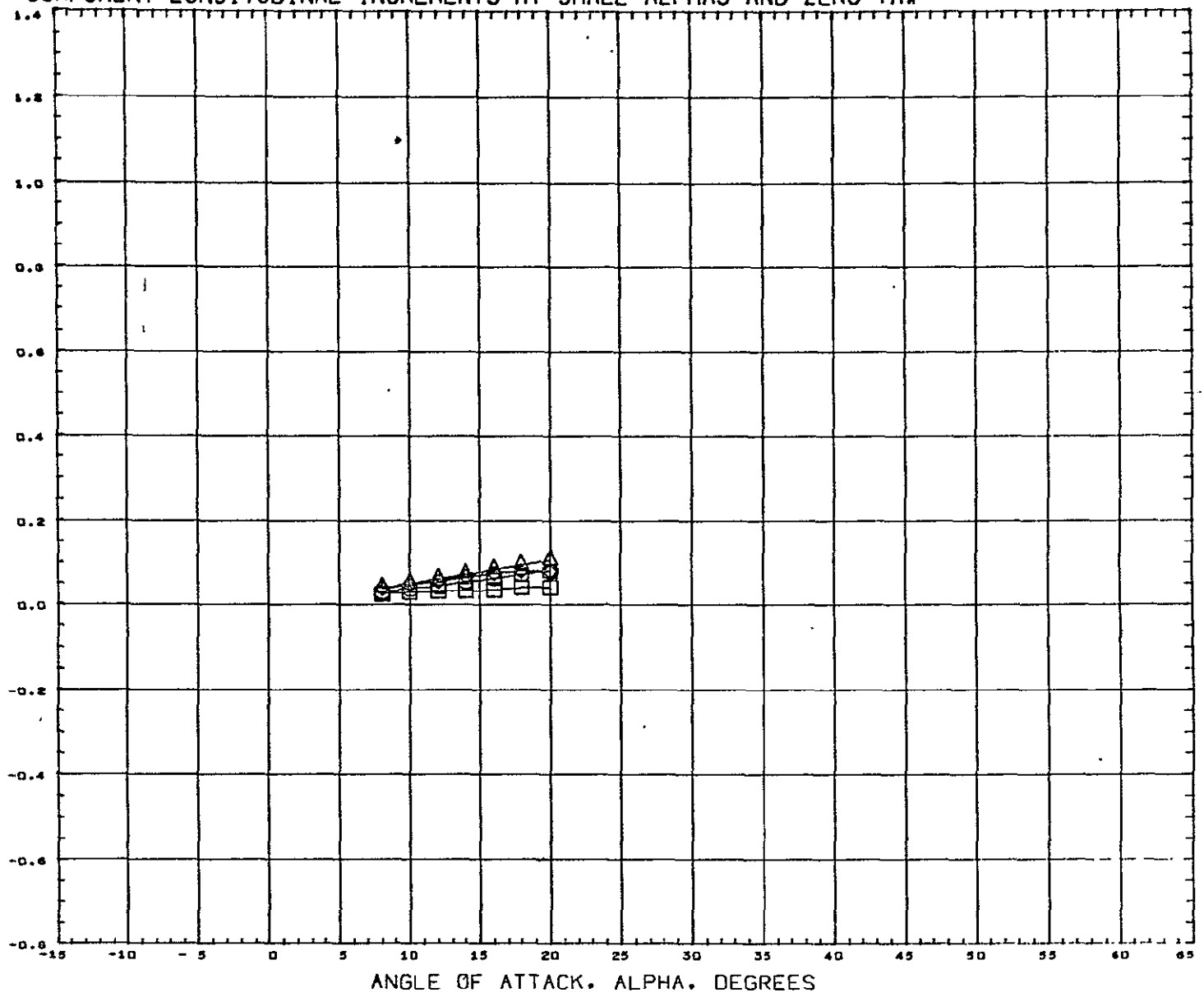
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	CANARD	RUDDER
(E26B18)	○	MSFC 481 GD/C(BOOSTER)B19W14C4A	6.000	0.000	0.000	
(E26B19)	△	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	6.000	0.000	0.000	

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.971

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



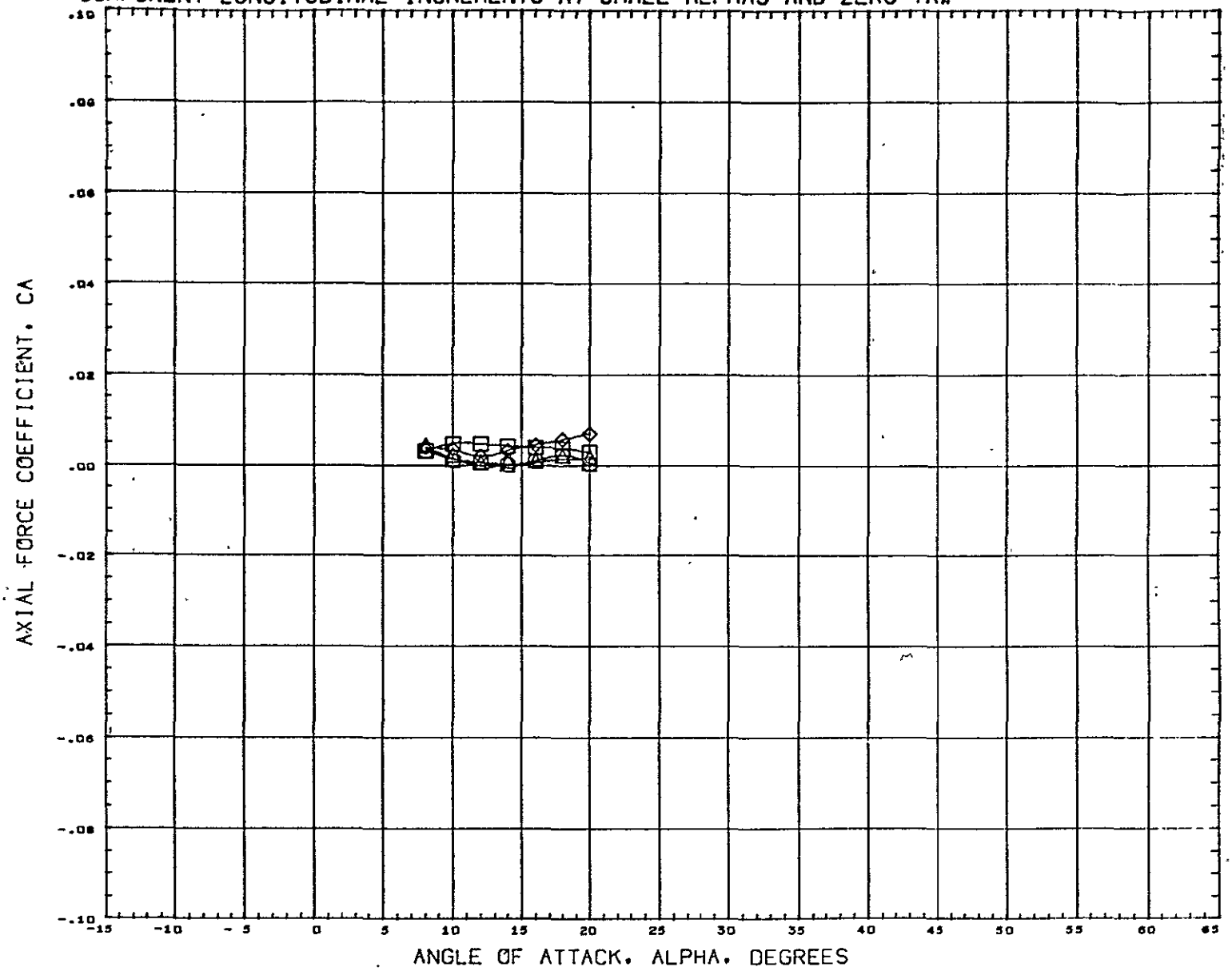
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.900	BETA	0.000
△	1.000		
◇	1.200		
□	2.000		

DATA HIST. CODE MVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



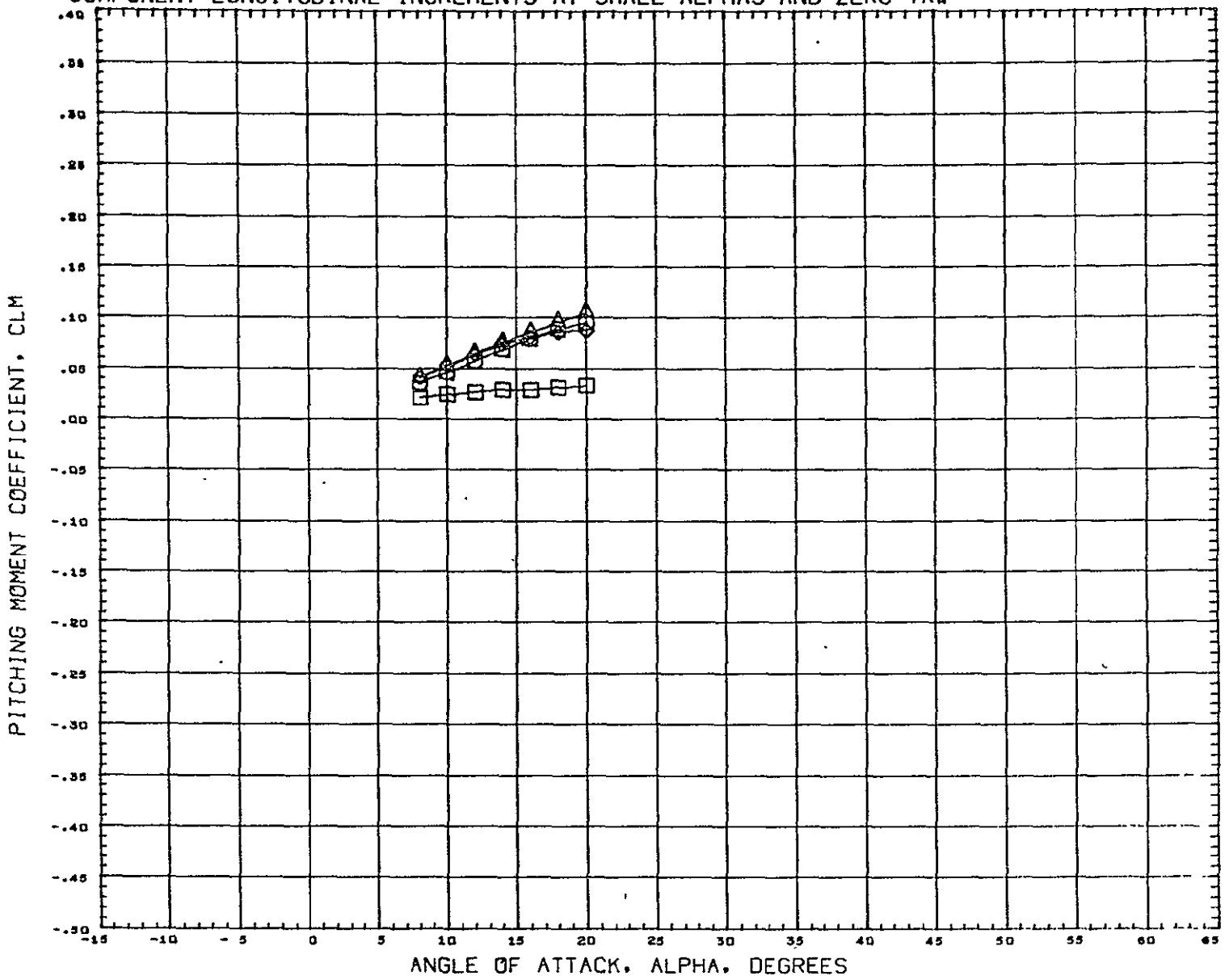
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.900	BETA	0.000
△	1.000		
◇	1.200		
□	2.000		

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



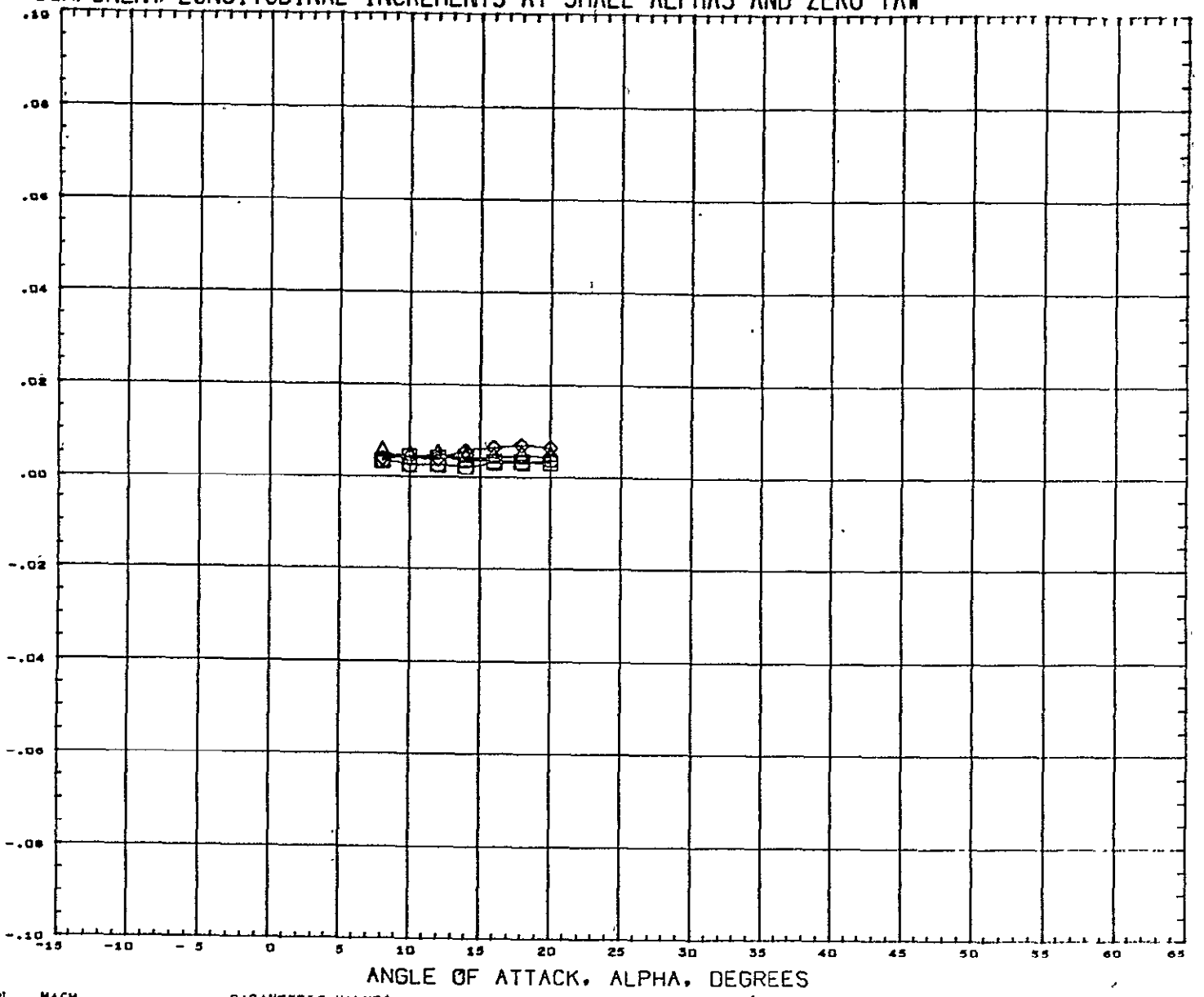
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.900	BETA	0.000
△	1.000		
◇	1.200		
□	2.000		

DATA HIST. CODE NVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



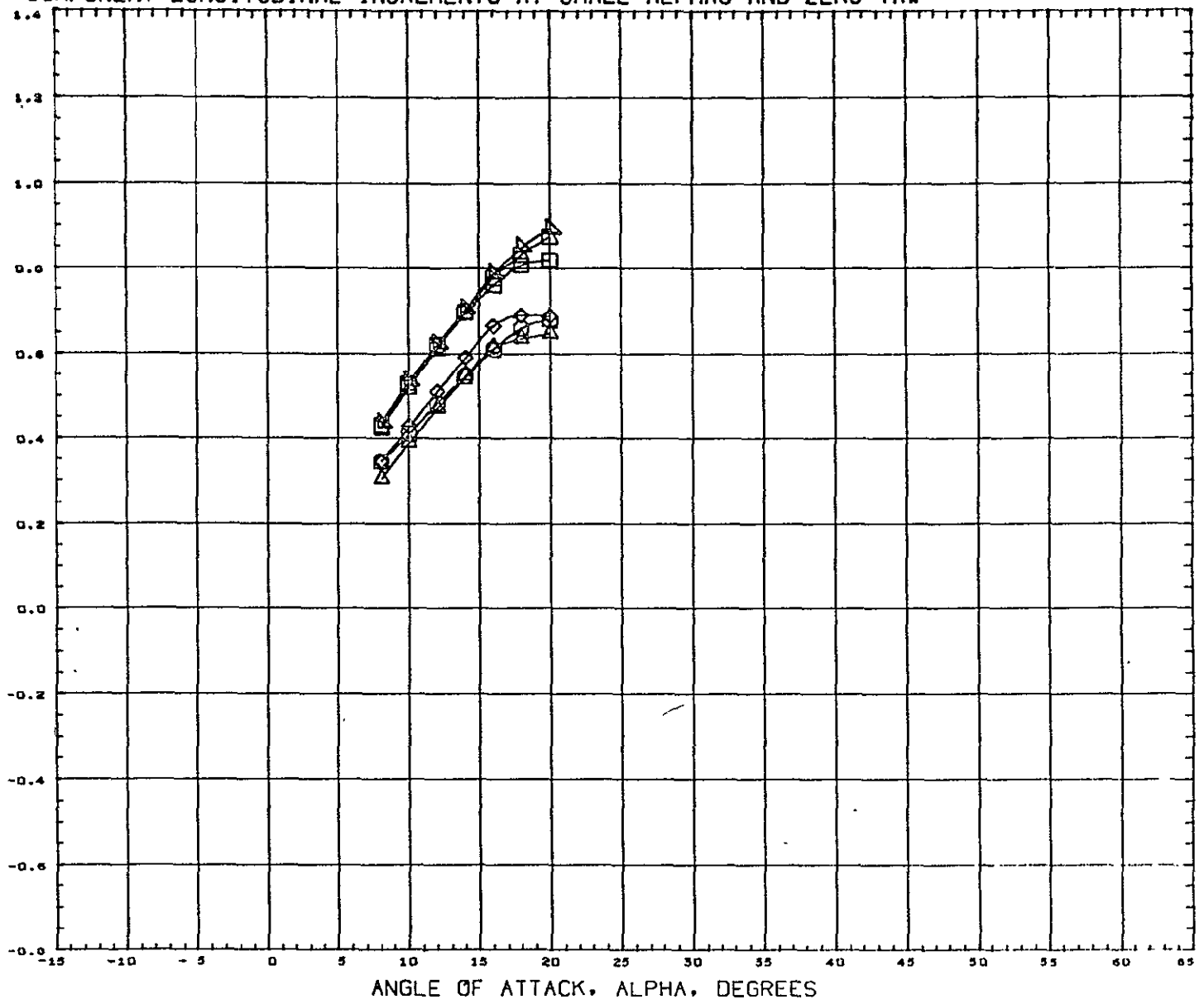
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.900	BETA	0.000
△	1.000		
◇	1.200		
□	2.000		

DATA HIST. CODE MVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

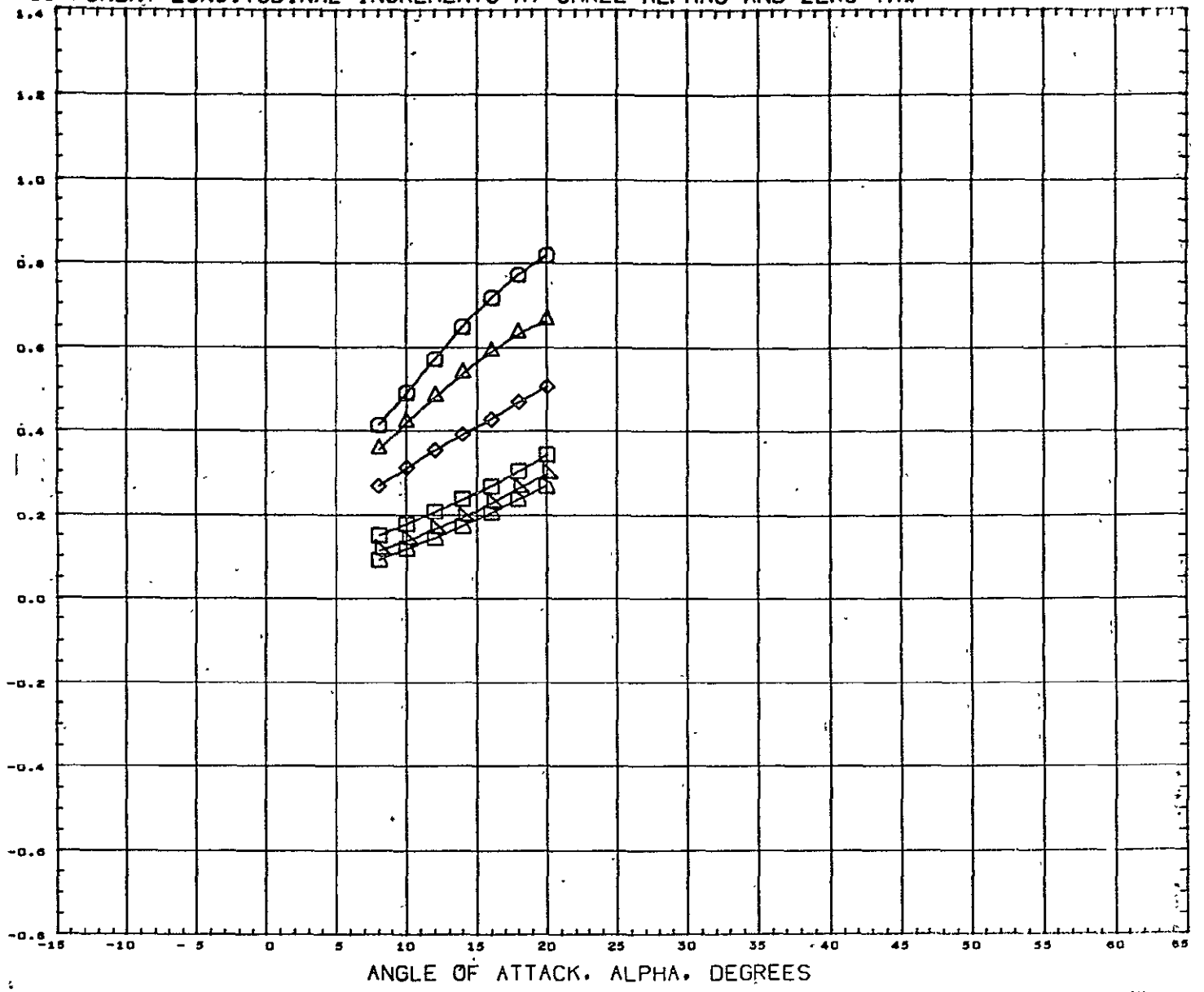
COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.600	BETA	0.000	RUDDER	0.000
△	0.900				
◇	0.950				
□	1.000				
▱	1.050				
▱	1.100	DATA HIST. CODE	MVR*EI*C		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

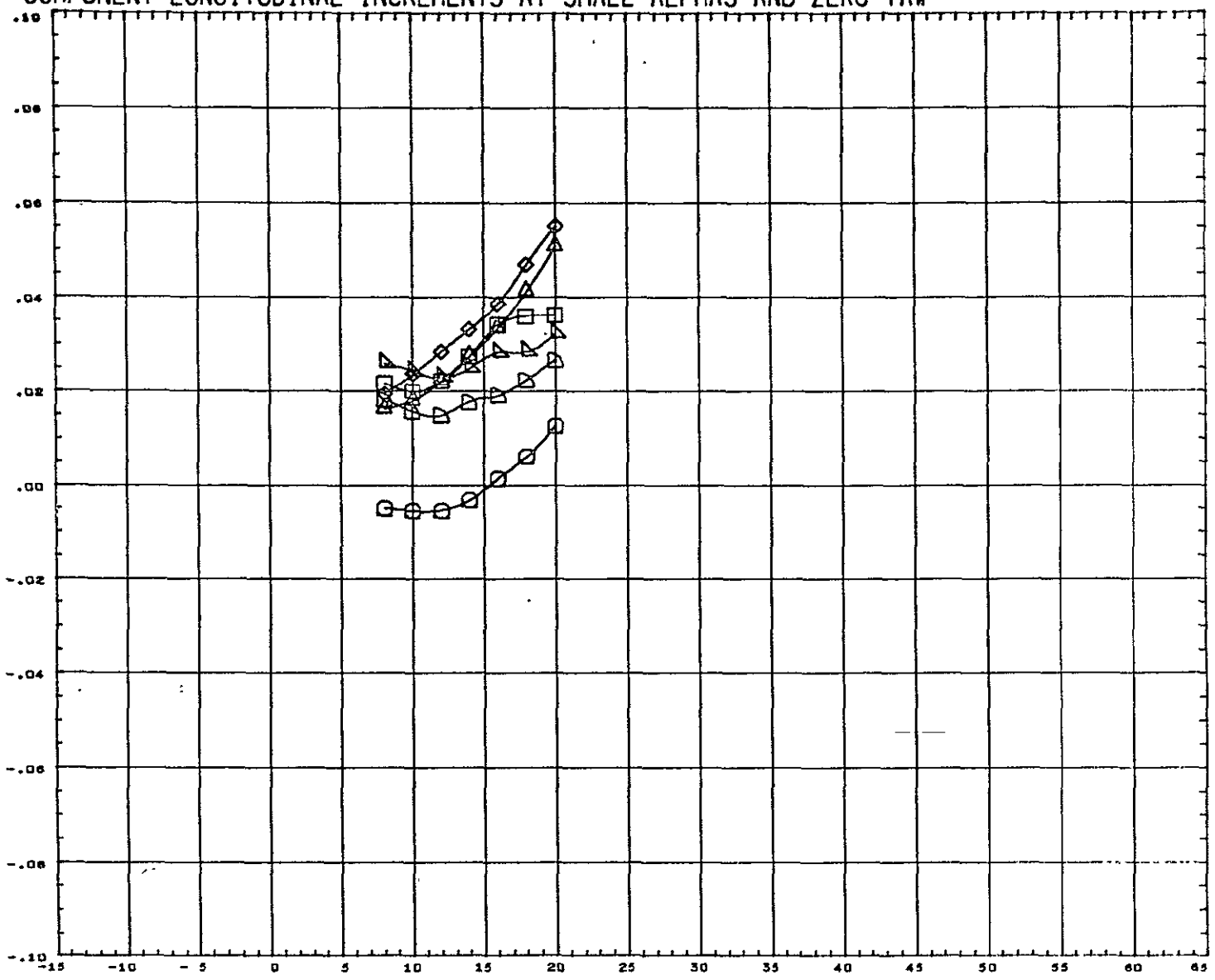
COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



SYMBOL	MACH	PARAMETRIC VALUES			
	1.200	BETA	0.000	RUDDER	0.000
	1.500				
	2.000				
	3.000				
	4.000				
	5.000	DATA HIST. CODE	MVR*EI*C		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

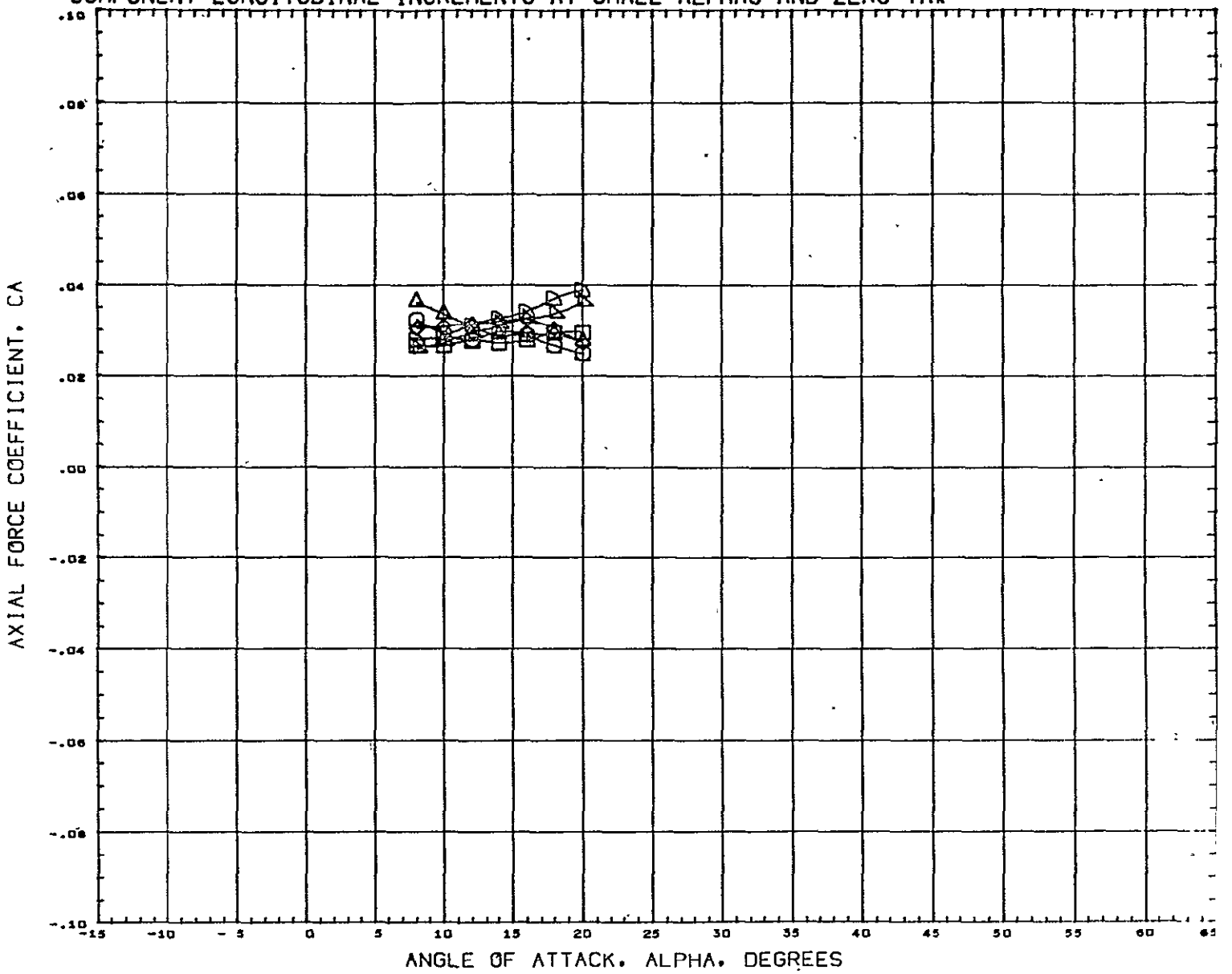
COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.600	BETA	0.000	RUDDER	0.000
△	0.900				
◇	0.950				
□	1.000				
▽	1.050				
▷	1.100	DATA HIST. CODE	MVR*EI*C		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

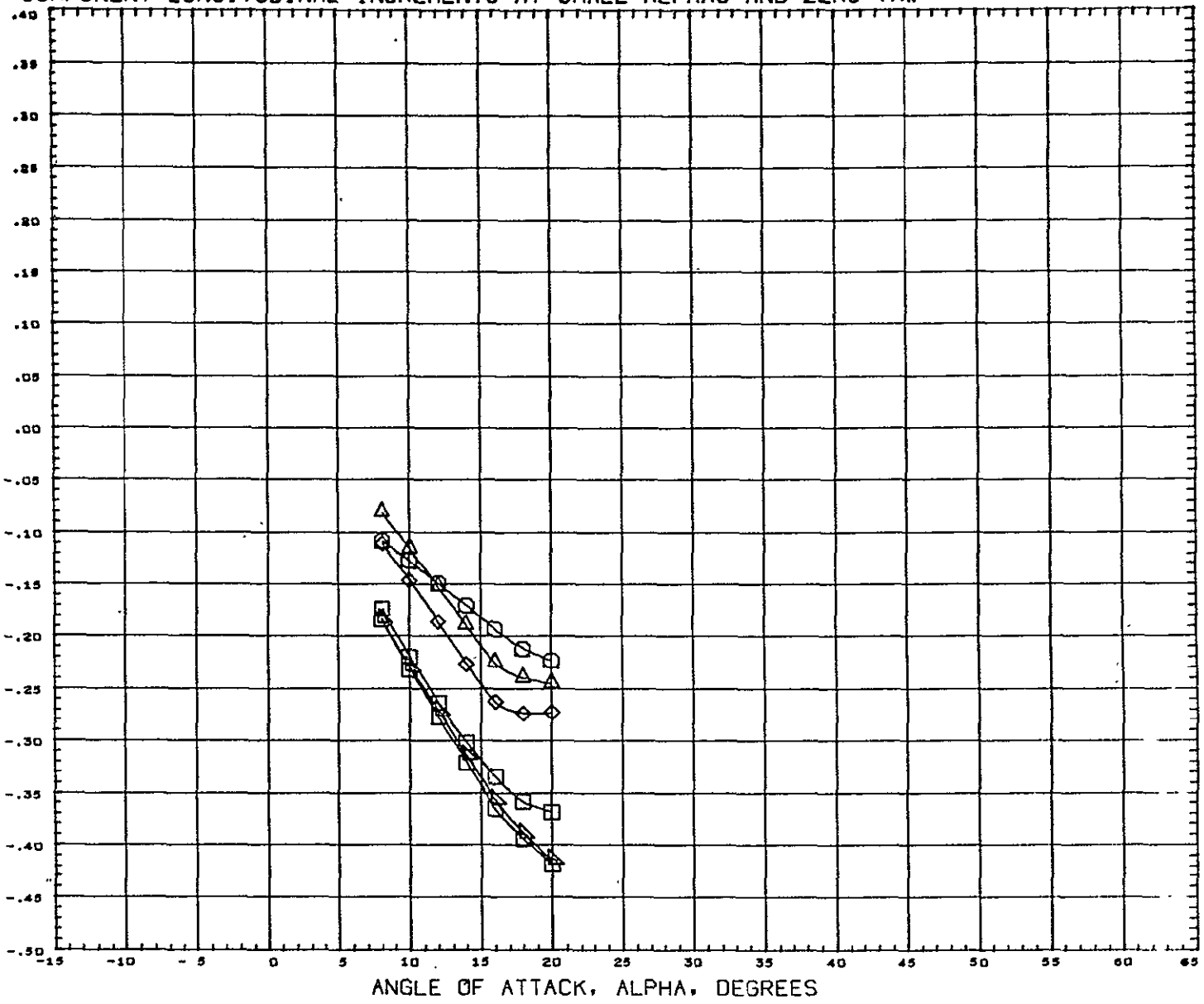
COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



SYMBOL	MACH	PARAMETRIC VALUES			
△	1.200	BETA	0.000	RUDDER	0.000
▽	1.500				
◇	2.000				
□	3.000				
◸	4.000				
⬠	5.000	DATA HIST. CODE	MVR*EI*C		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW

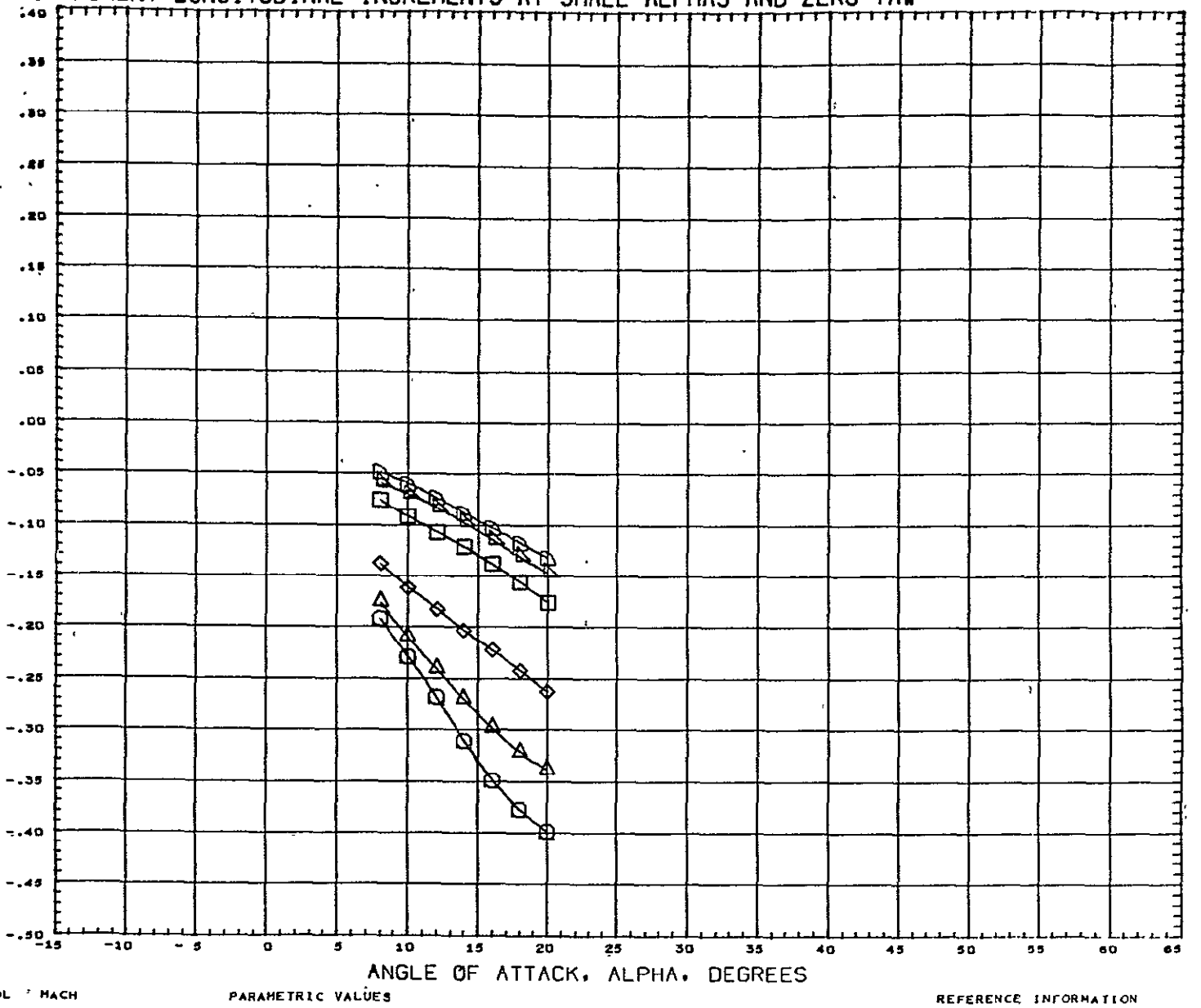


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.600	BETA	0.000	RUDDER	0.000
△	0.900				
◇	0.950				
□	1.000				
▱	1.050				
▷	1.100	DATA HIST. CODE	HVR*E1*C		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

A28B21-A28B11, B19W14- B19, WING,W14, DATA (N28015) 01 NOV 71

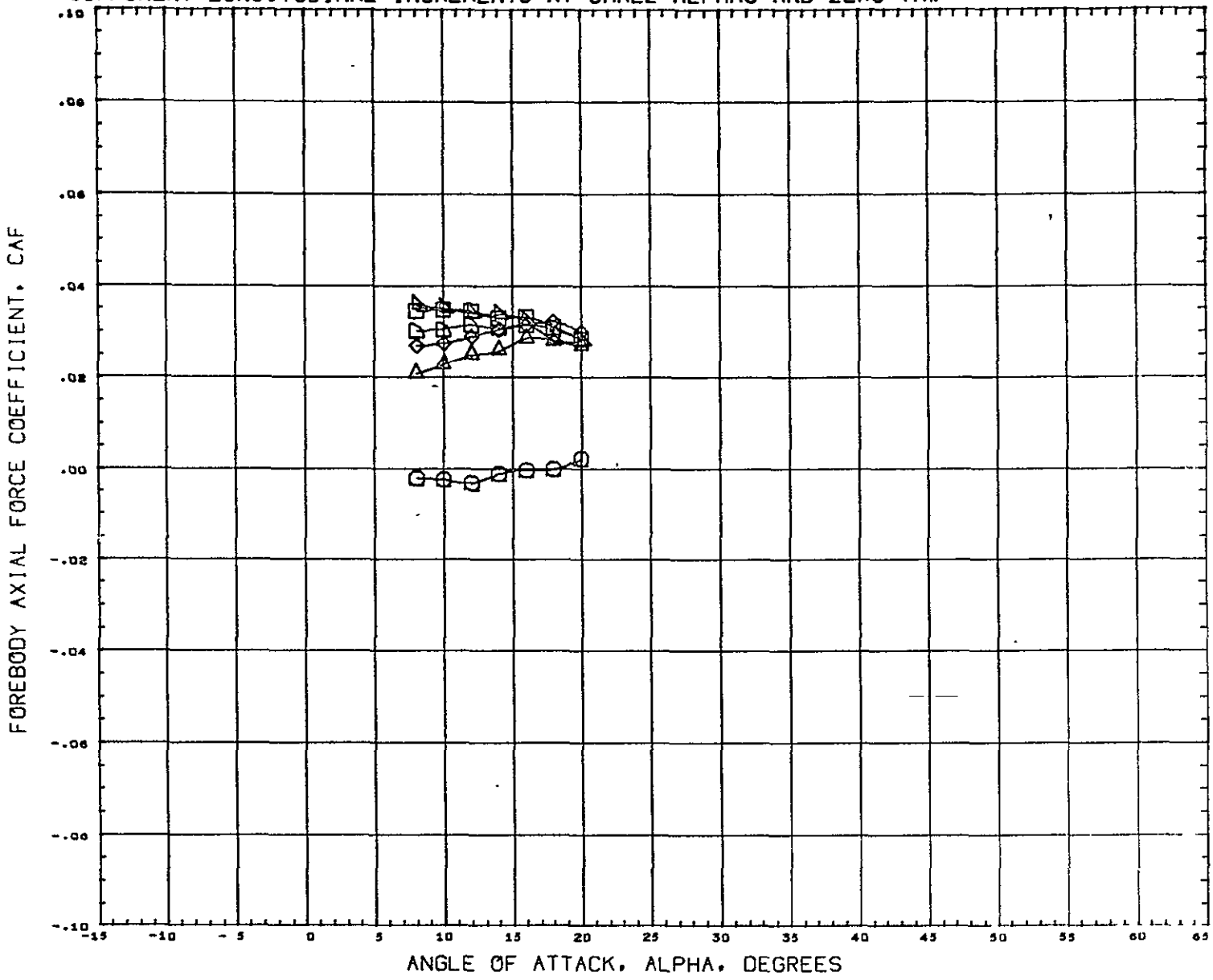
COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



SYMBOL	MACH	PARAMETRIC VALUES			
○	1.200	BETA	0.000	RUDDER	0.000
△	1.500				
◇	2.000				
□	3.000				
▱	4.000				
D	5.000	DATA HIST. CODE	MVR*EI*C		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

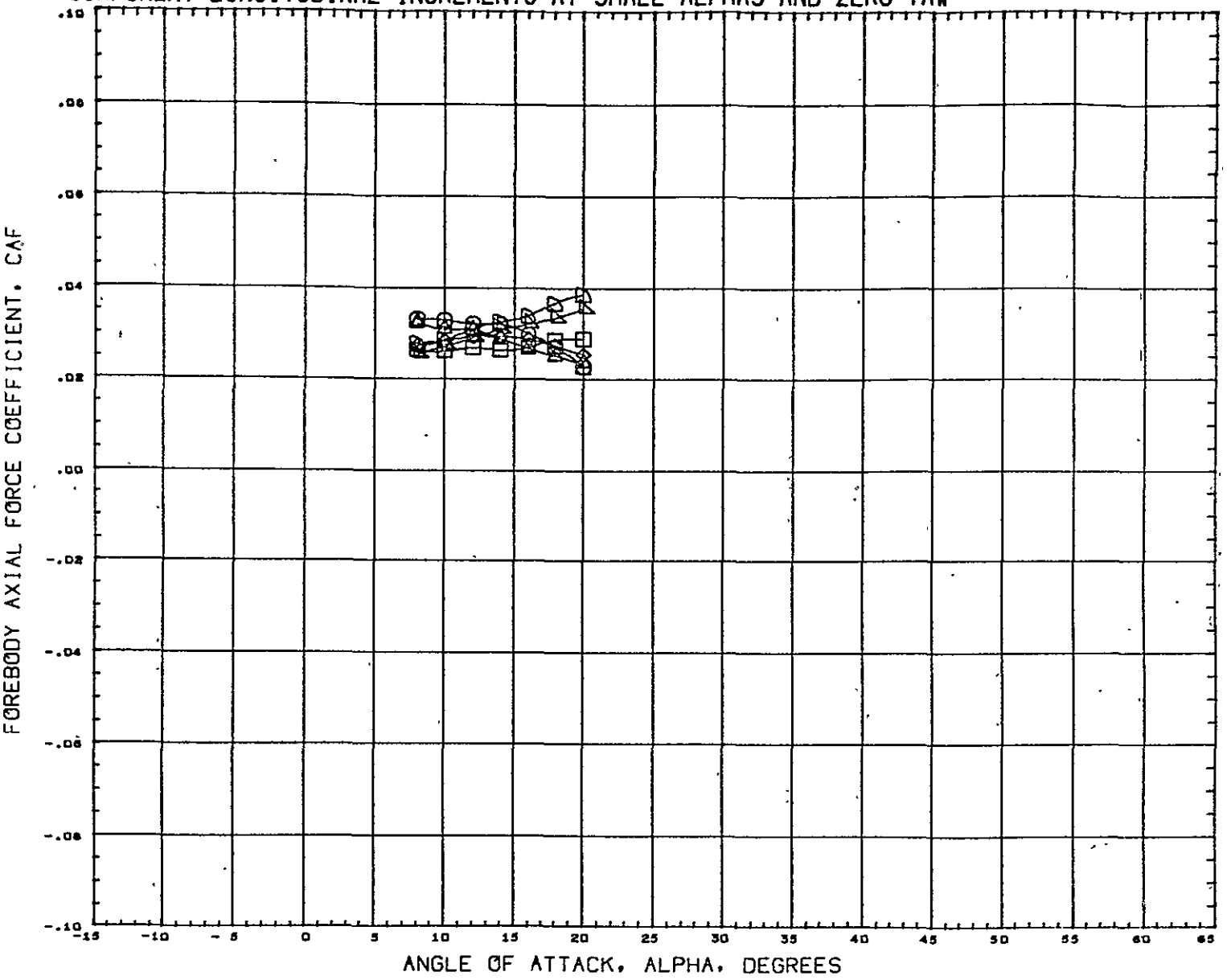
COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.600	BETA	0.000	RUDDER	0.000
△	0.900				
◇	0.950				
□	1.000				
◸	1.050				
D	1.100	DATA HIST. CODE	MVR*EI*C		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

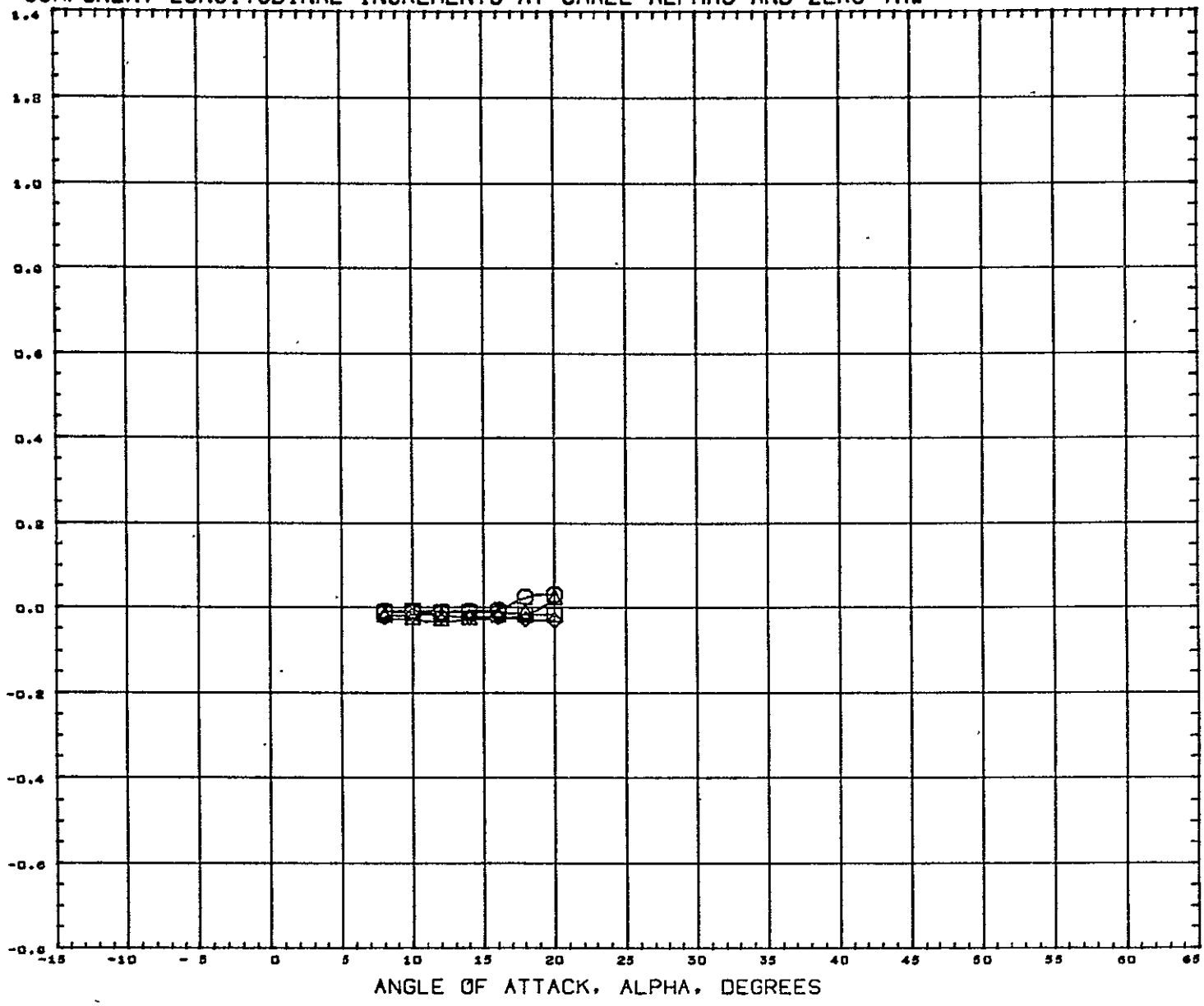
COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



SYMBOL	MACH	PARAMETRIC VALUES			
○	1.200	BETA	0.000	RUDDER	0.000
△	1.500				
◇	2.000				
□	3.000				
▽	4.000				
⬠	5.000	DATA HIST. CODE	MVR*EI*C		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



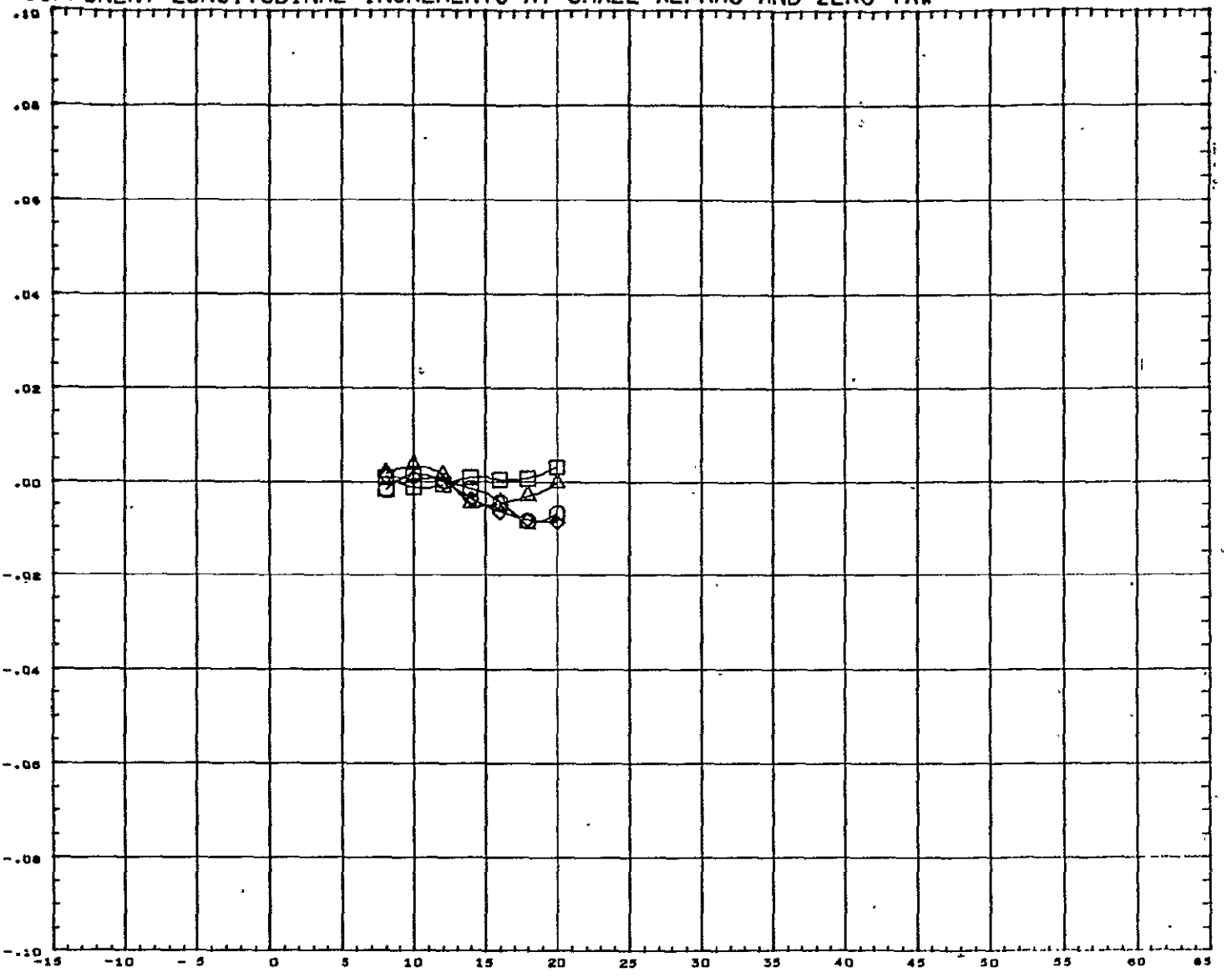
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.900	BETA	0.000
△	1.000		
◇	1.200		
□	2.000		

DATA HIST. CODE MVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



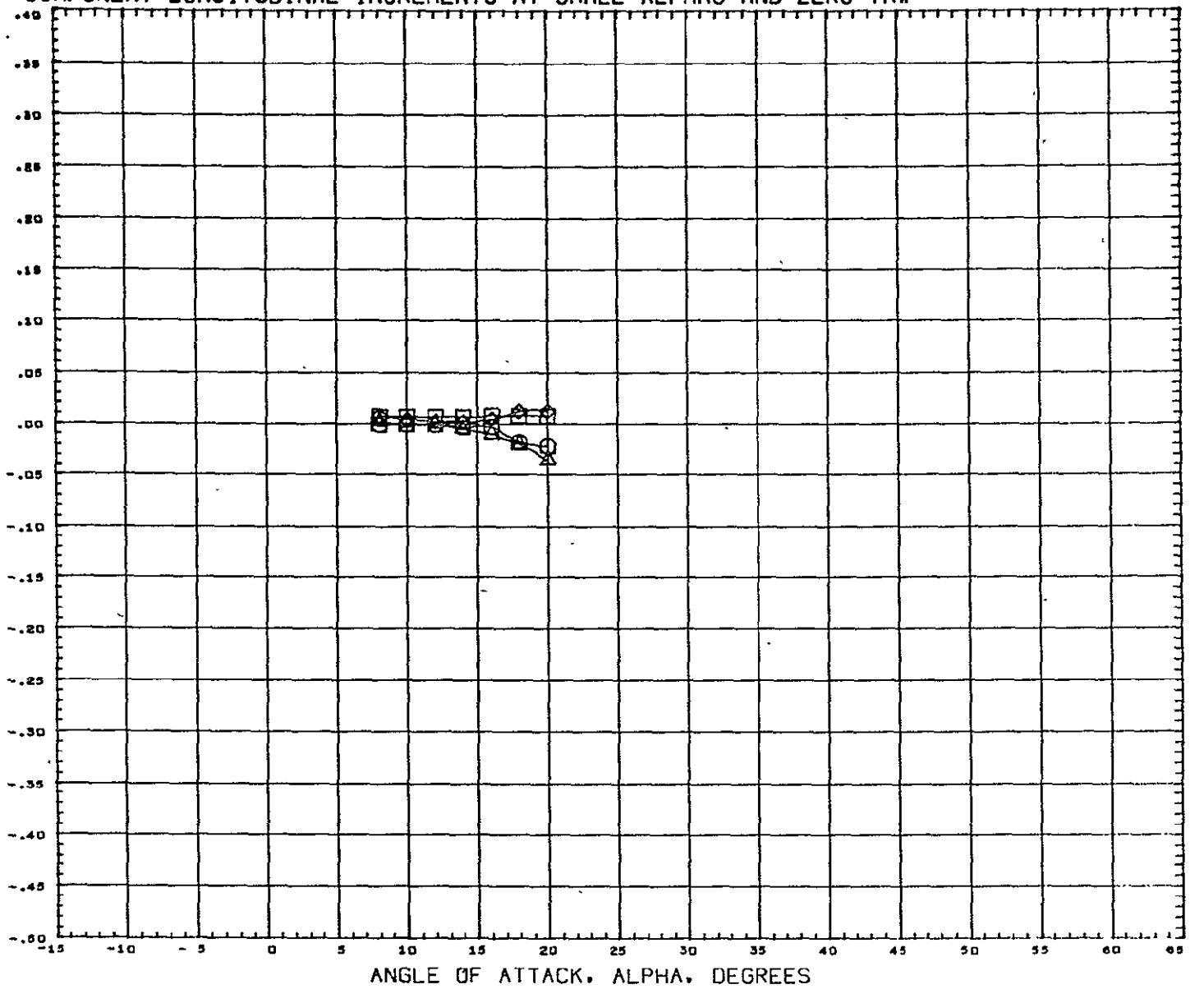
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.900	BETA	0.000
△	1.000		
◇	1.200		
□	2.000		

DATA HIST. CODE MVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



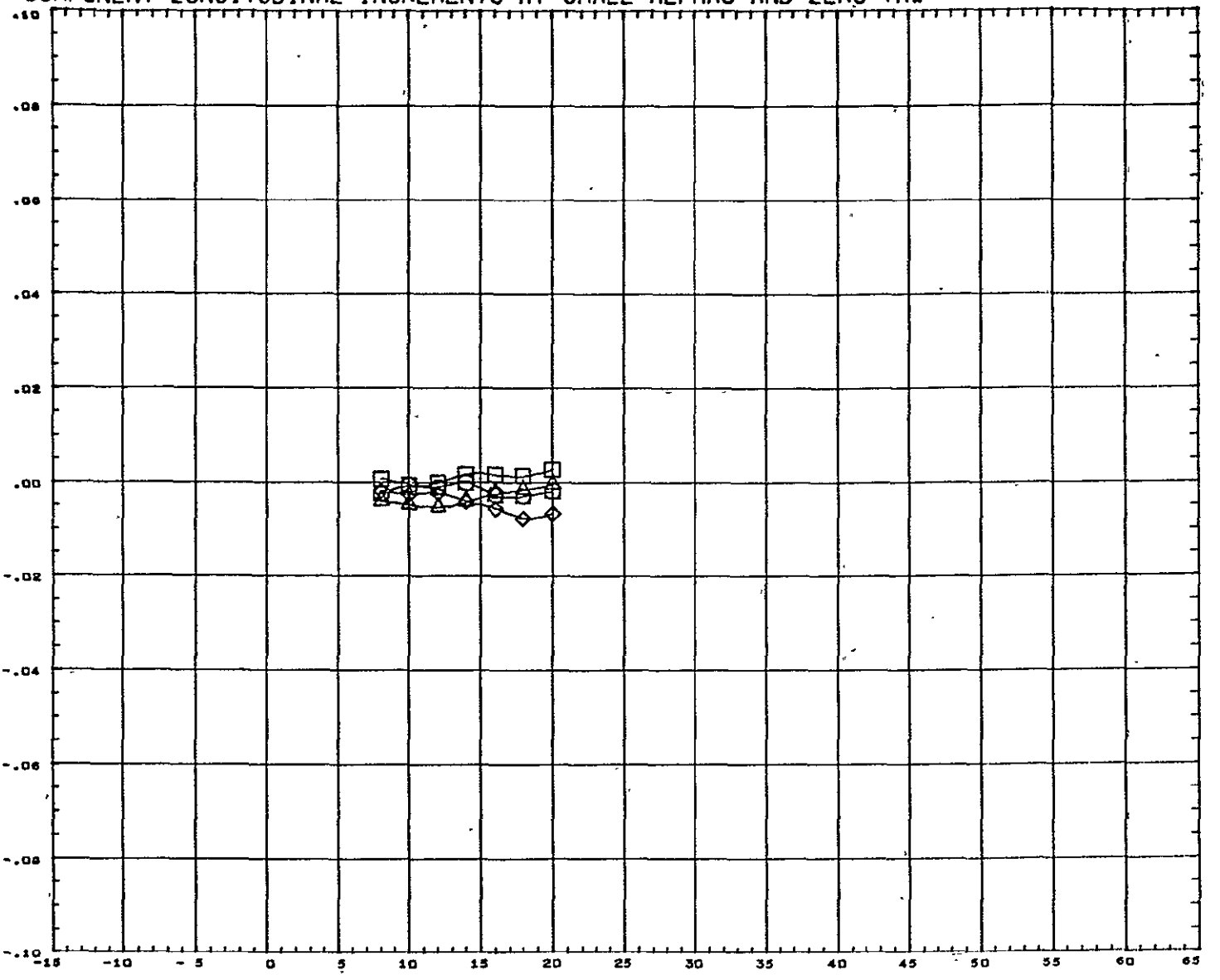
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.900	BETA	0.000
△	1.000		
◇	1.200		
□	2.000		

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



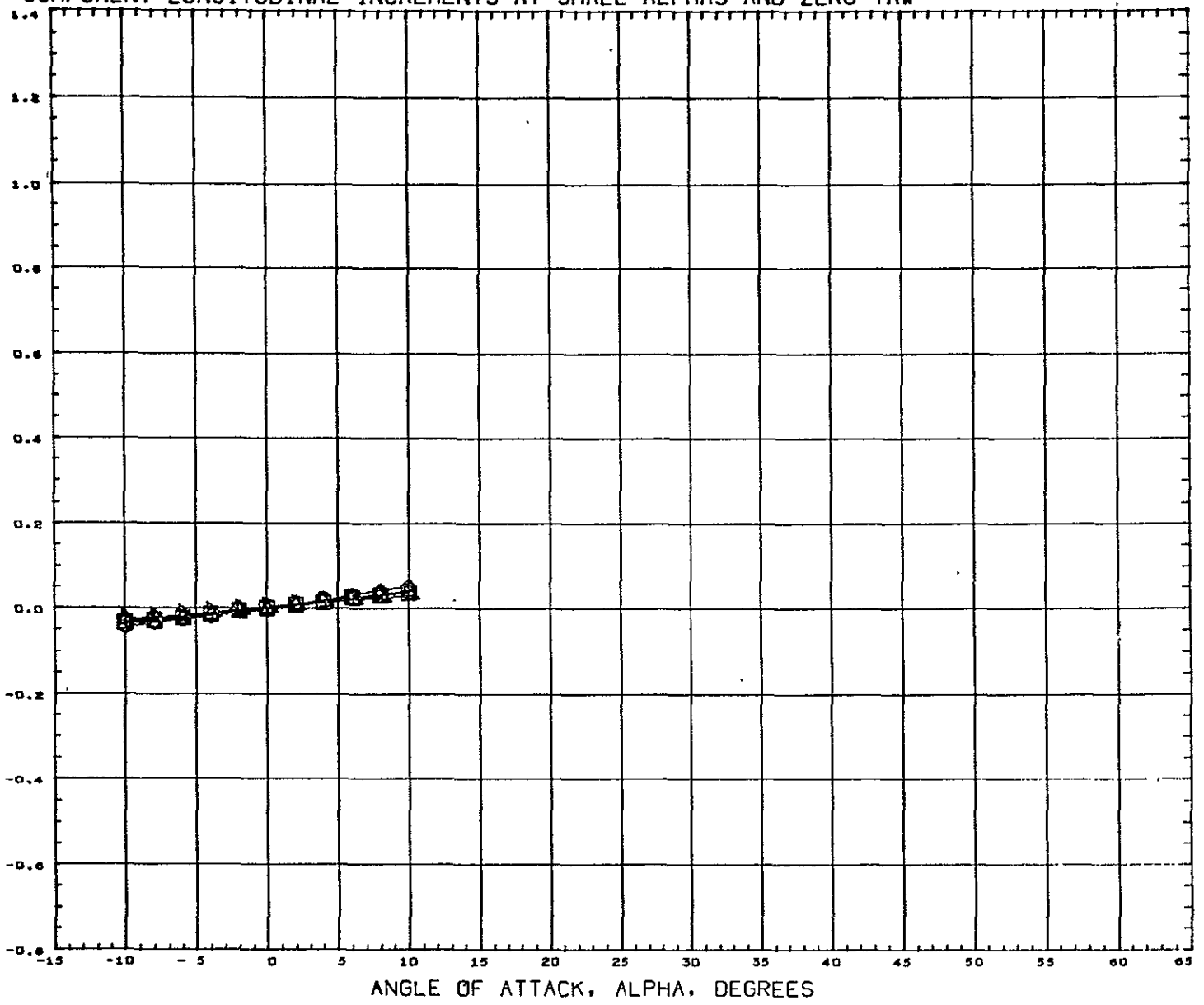
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.900	BETA	0.000
△	1.000		
◇	1.200		
□	2.000		

DATA HIST. CODE MVR*E1*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



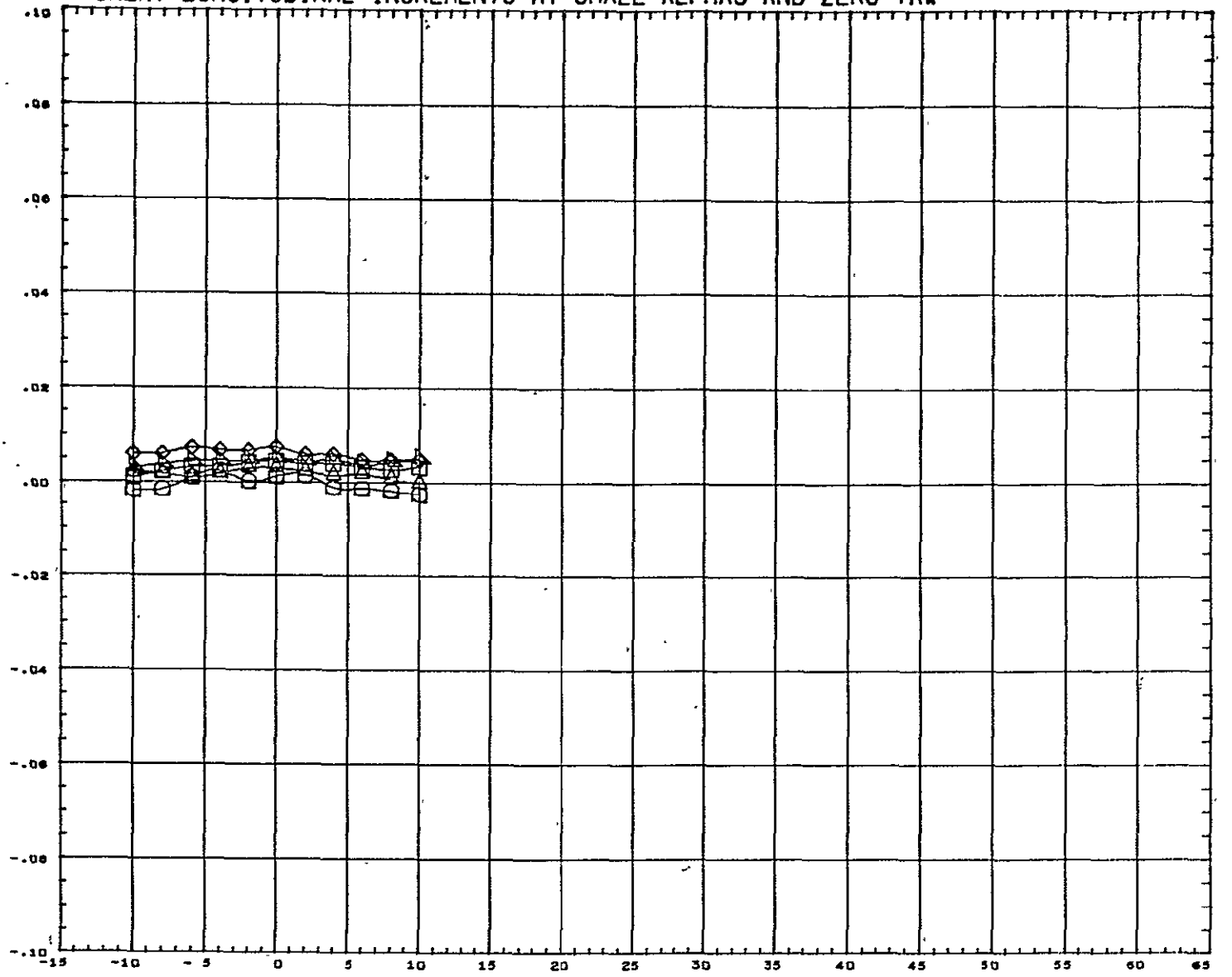
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.600	BETA	0.000
△	0.900		
◇	1.100		
□	1.500		
▽	2.000		

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



SYMBOL	MACH
○	0.600
△	0.900
◇	1.100
□	1.500
▽	2.000

PARAMETRIC VALUES

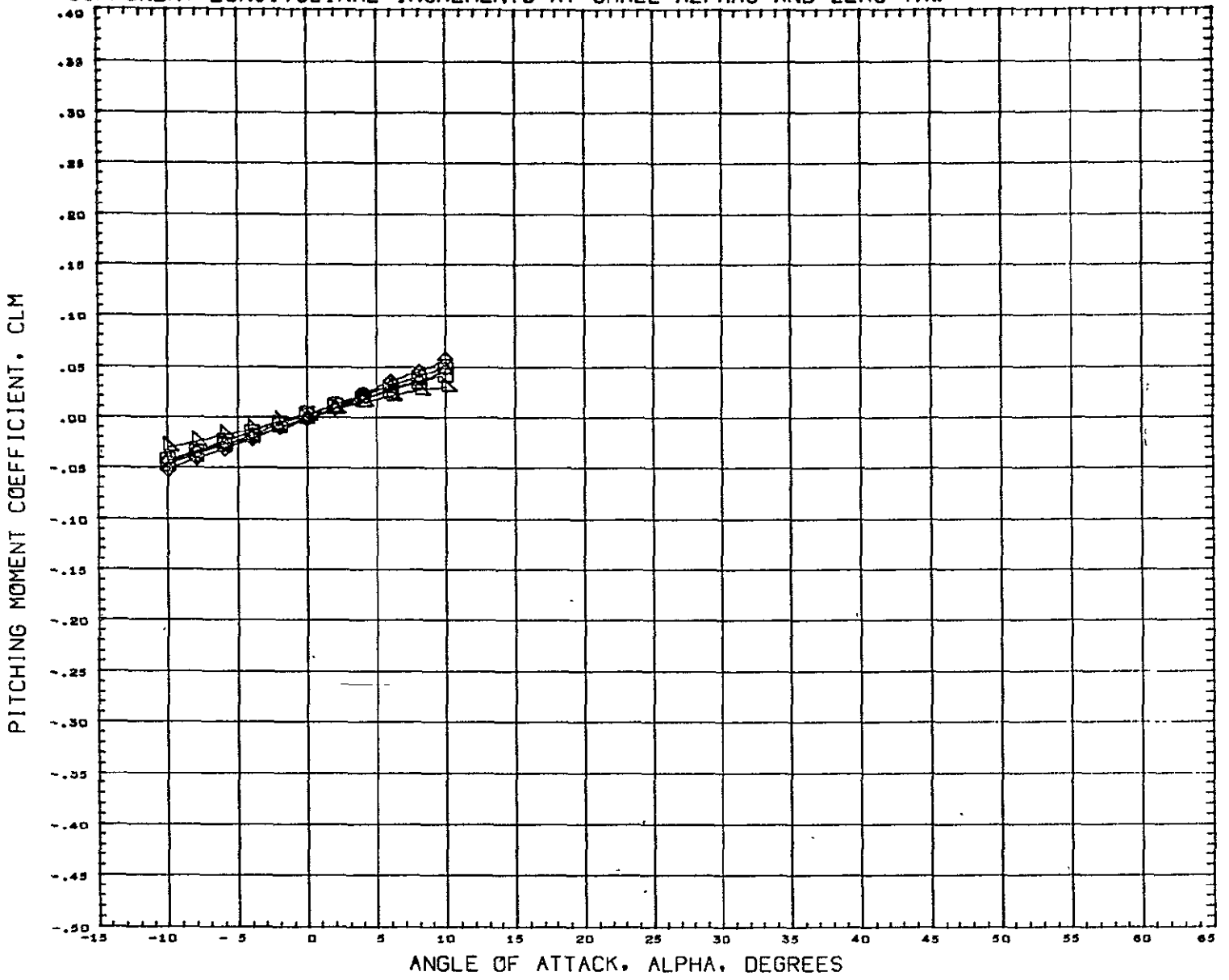
BETA 0.000

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO TAB



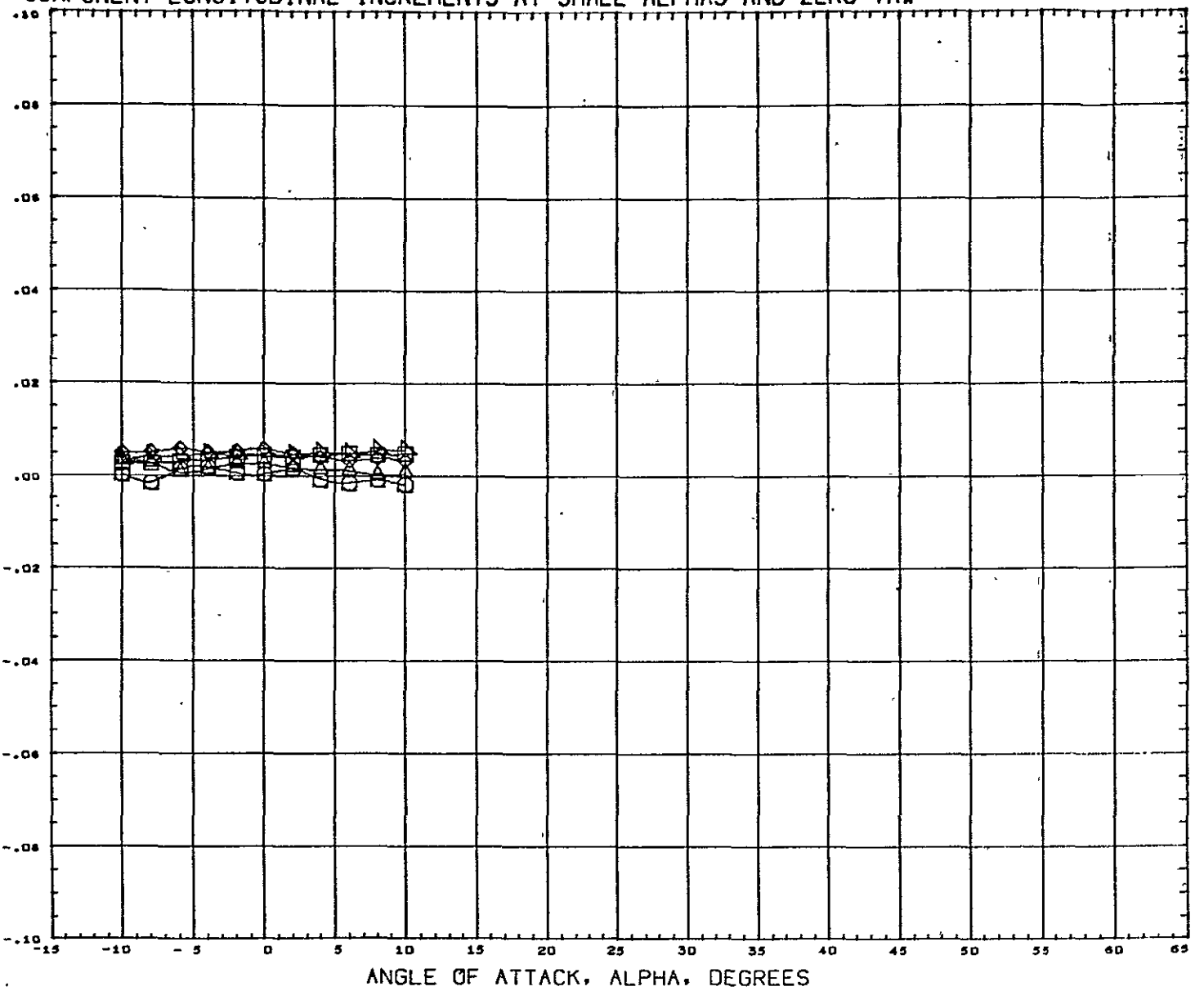
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.600	BETA	0.000
△	0.900		
◇	1.100		
□	1.500		
▽	2.000		

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



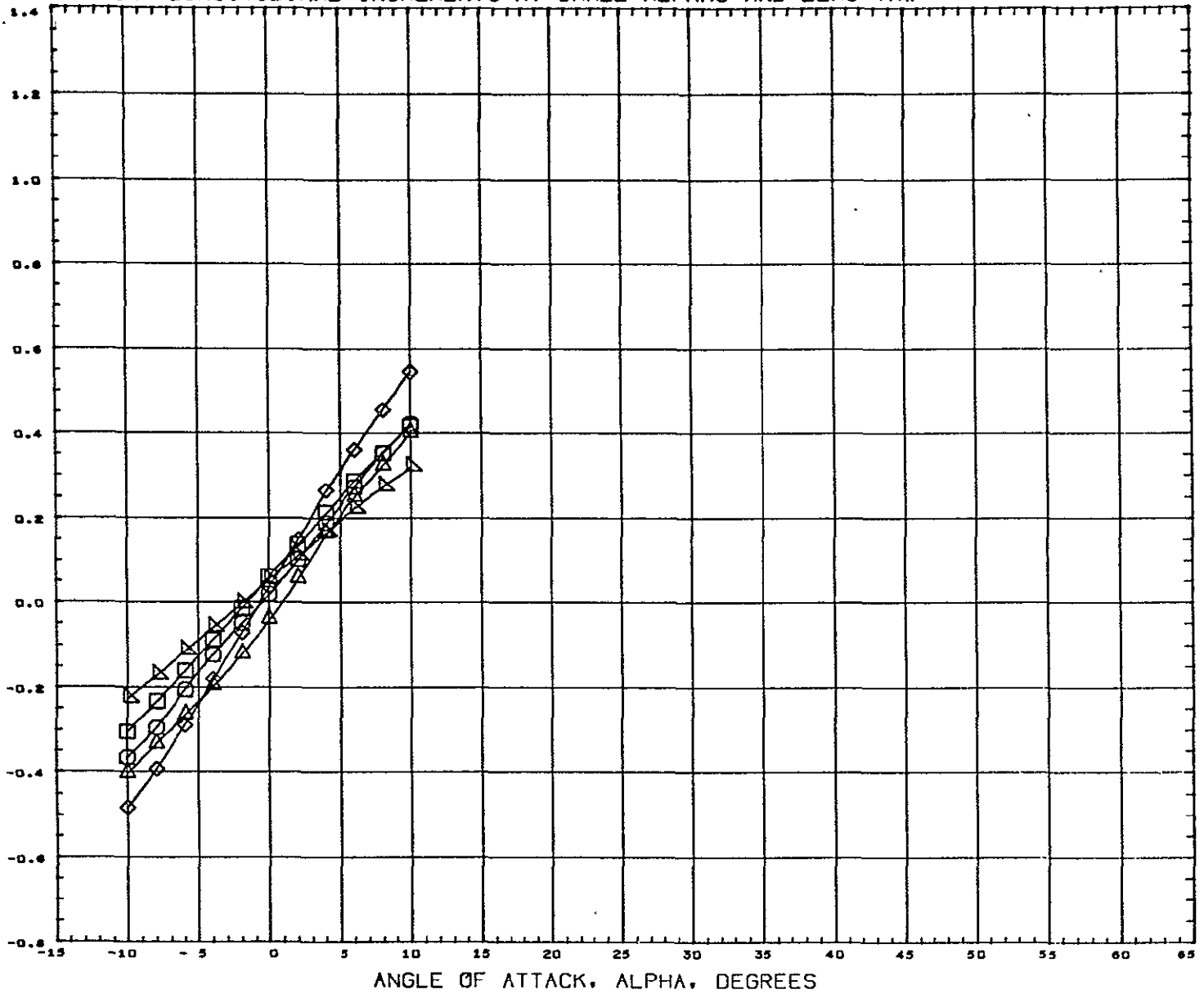
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.600	BETA	0.000
△	0.900		
◇	1.100		
□	1.500		
▽	2.000		

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



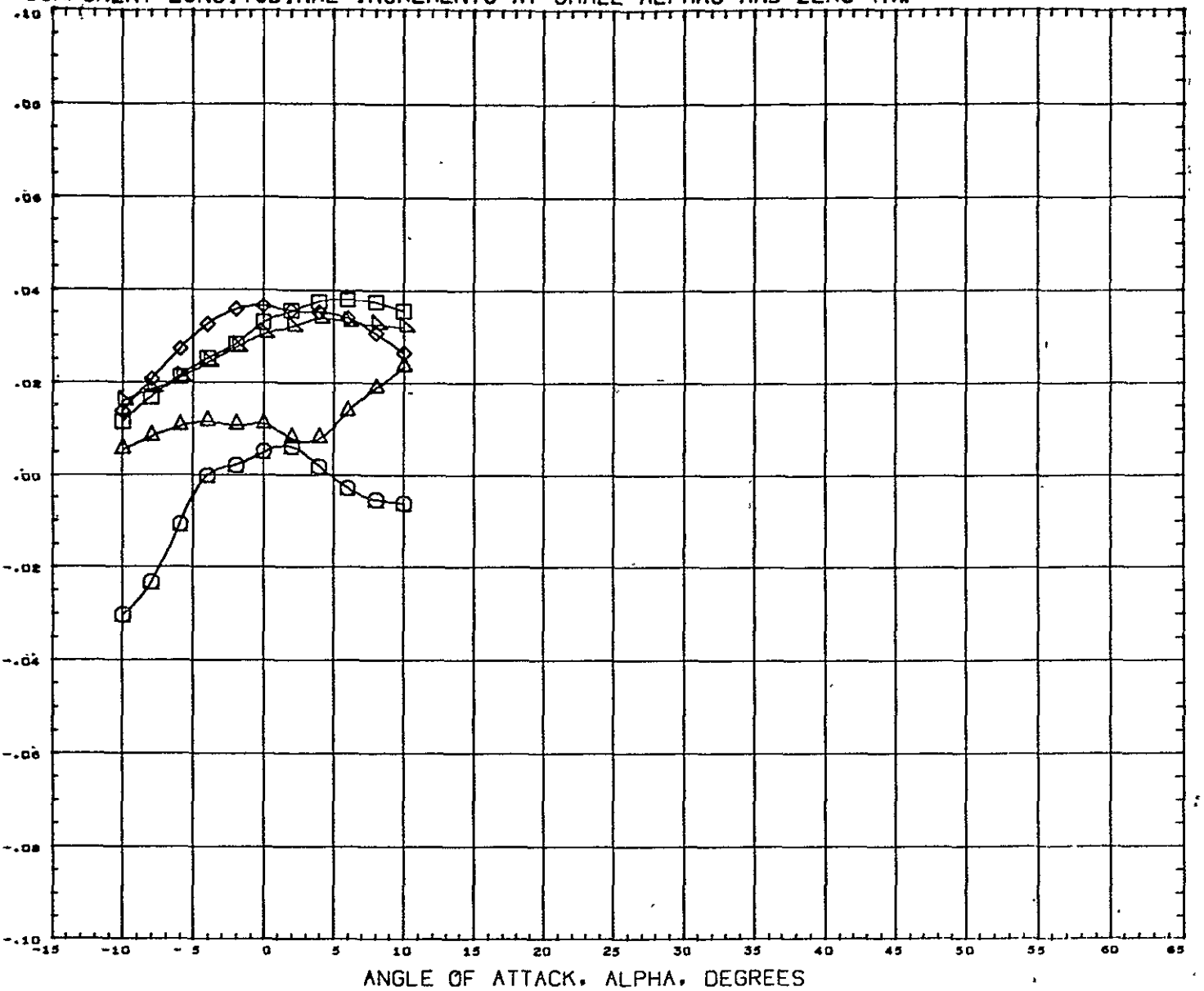
SYMBOL	MACH	PARAMETRIC VALUES	
	0.600	BETA	0.000
	0.900		
	1.100		
	1.500		
	2.000		

DATA HIST. CODE MVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



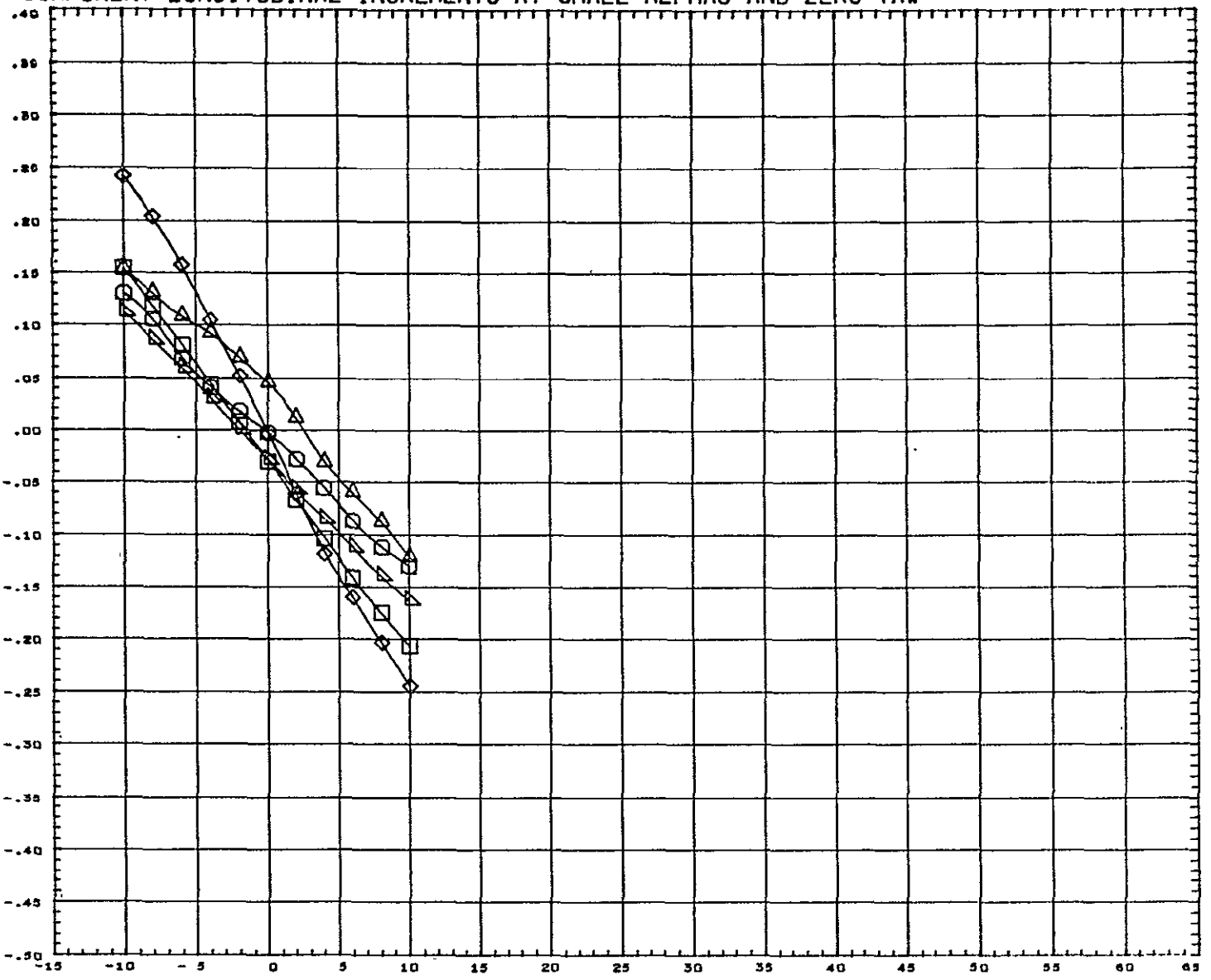
SYMBOL	MACH	PARAMETRIC VALUES	
□	0.600	BETA	0.000
△	0.900		
◇	1.100		
▽	1.500		
⊘	2.000		

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



PITCHING MOMENT COEFFICIENT, CLM

ANGLE OF ATTACK, ALPHA, DEGREES

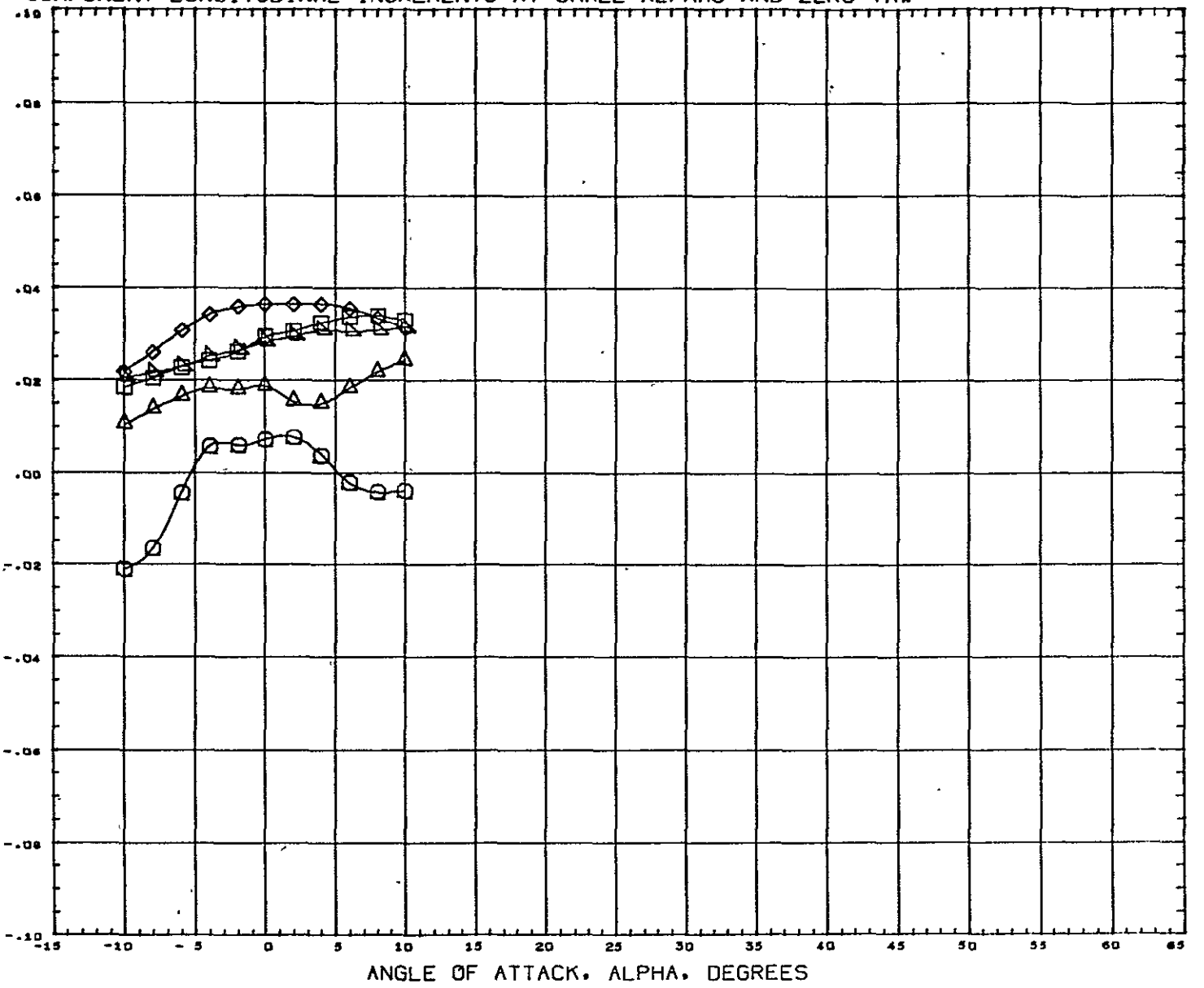
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.600	BETA	0.000
△	0.900		
◇	1.100		
□	1.500		
▽	2.000		

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



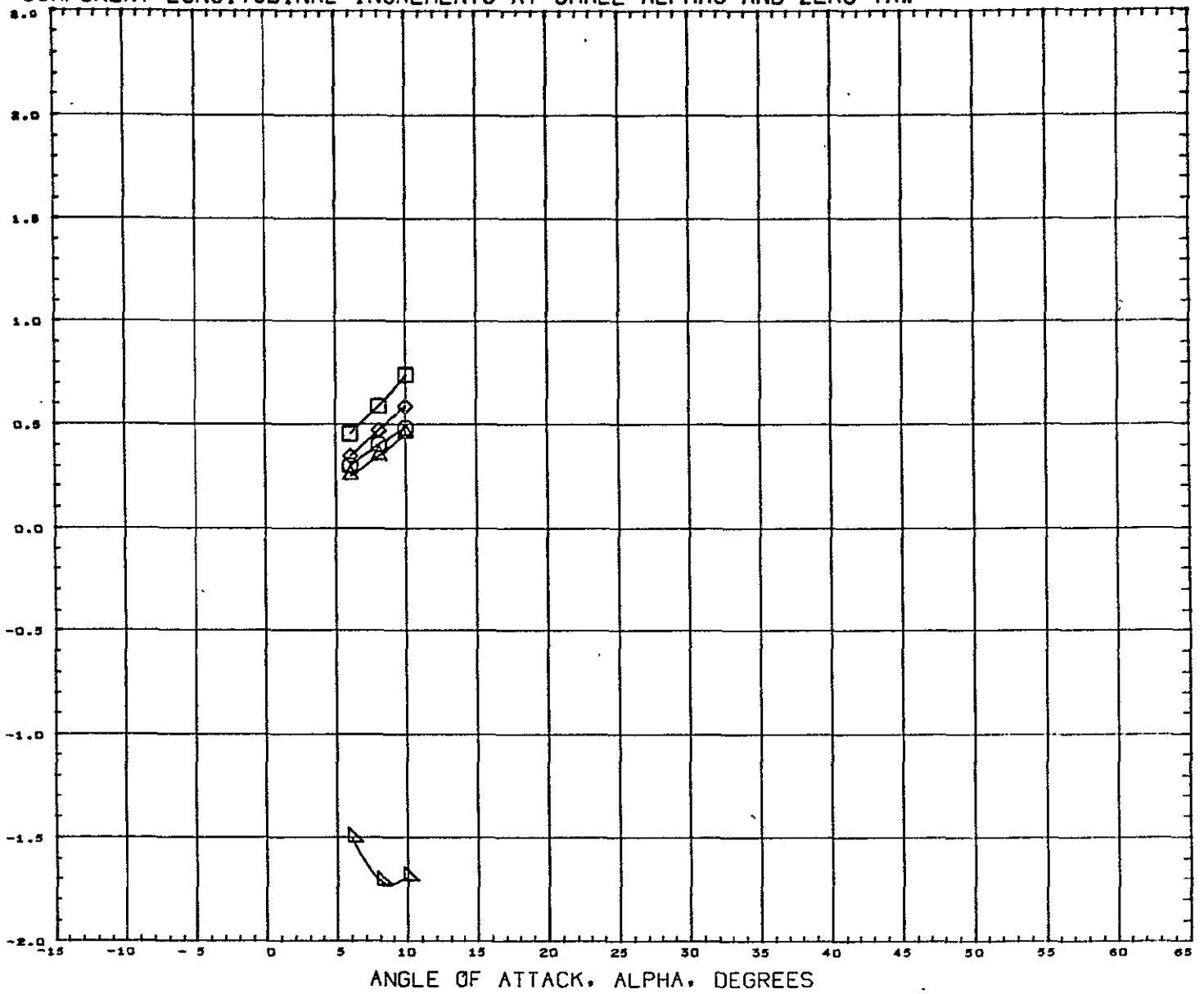
SYMBOL	MACH	PARAMETRIC VALUES	
○	0.600	BETA	0.000
△	0.900		
◇	1.100		
□	1.500		
▽	2.000		

DATA HIST. CODE HVR*E1*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



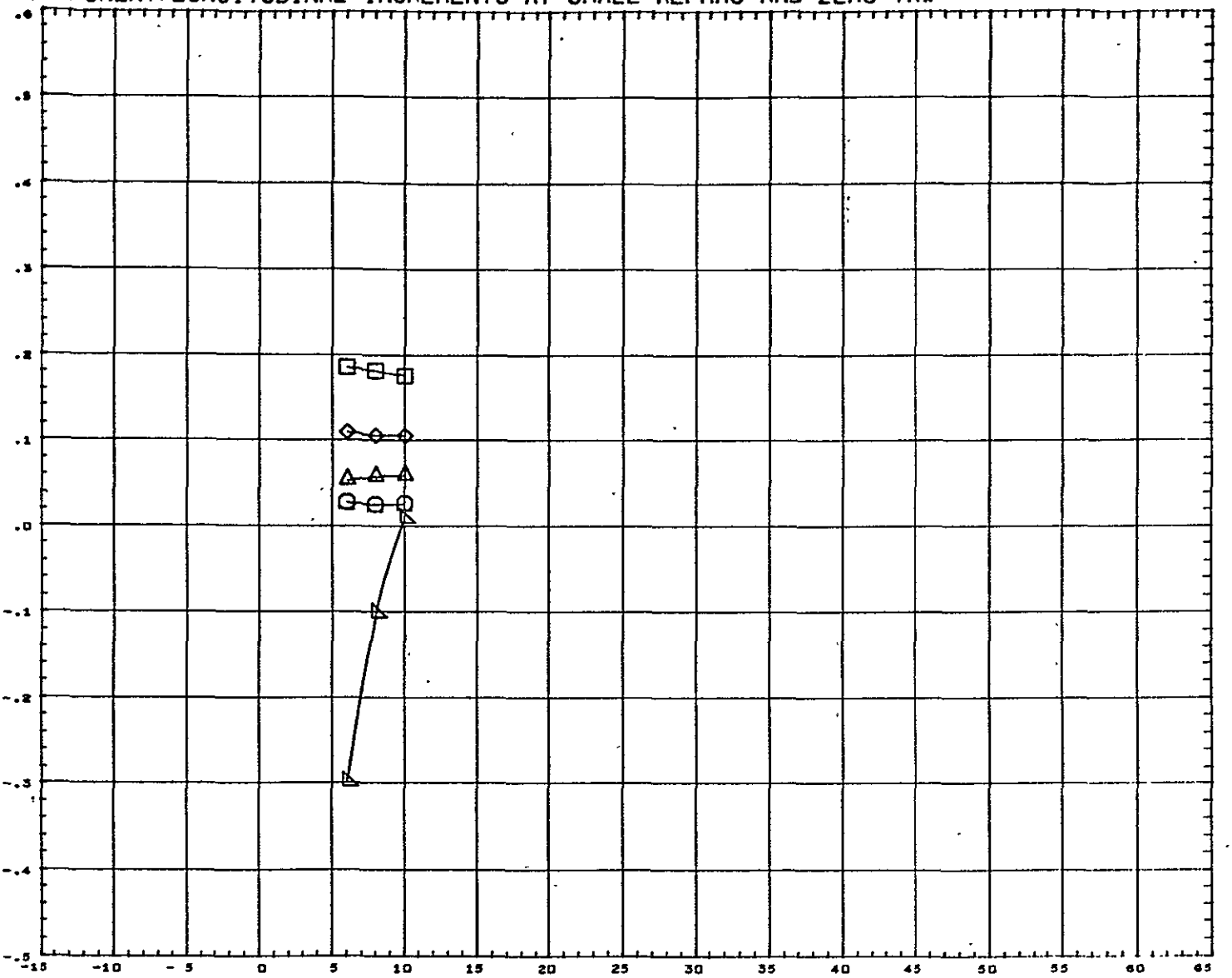
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.600	BETA	0.000	DEL	0.000
△	0.900	DER	0.000	ELEVON	0.000
◇	1.100	AILRON	0.000		
□	1.500				
▽	2.000				

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW

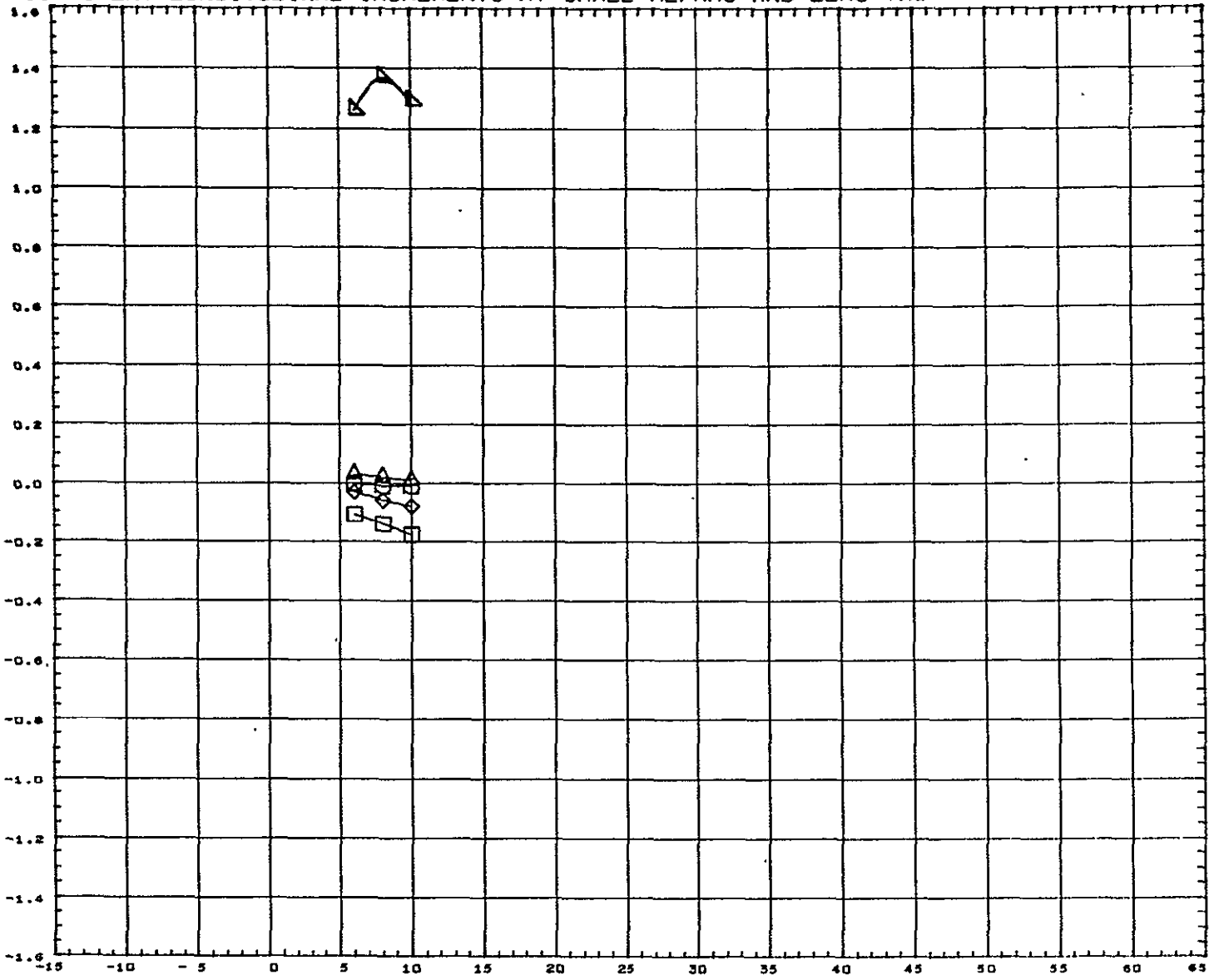


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.600	BETA	0.000	DEL	0.000
△	0.900	DER	0.000	ELEVON	0.000
◇	1.100	AILRON	0.000		
□	1.500				
▽	2.000				

DATA HIST. CODE MVR*EI*C

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO TAB



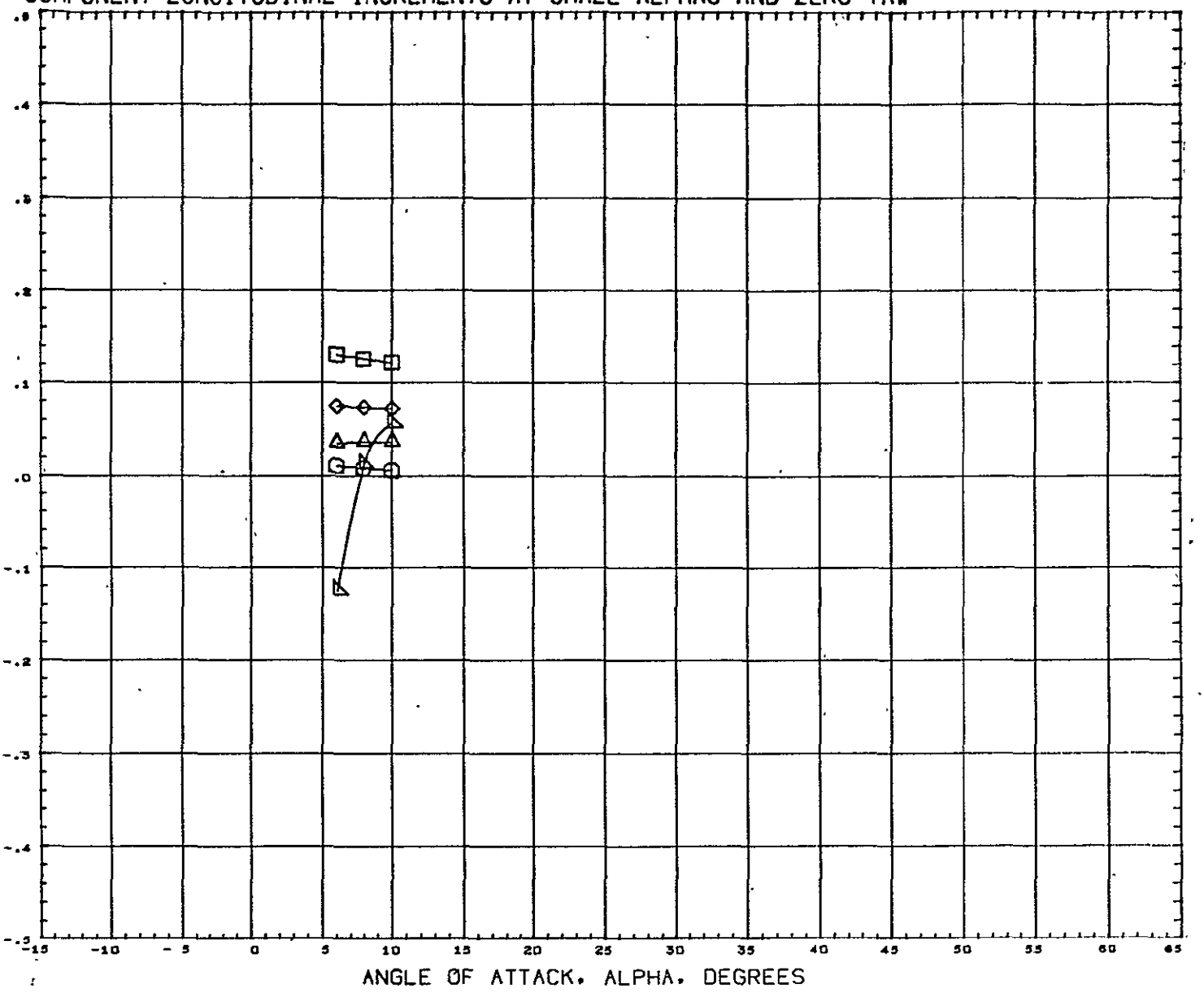
SYMBOL	MACH		PARAMETRIC VALUES		
○	0.600	BETA	0.000	DEL	0.000
△	0.900	DER	0.000	ELEVON	0.000
◇	1.100	AILRON	0.000		
□	1.500				
▽	2.000				

DATA HIST. CODE MVR*E1*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



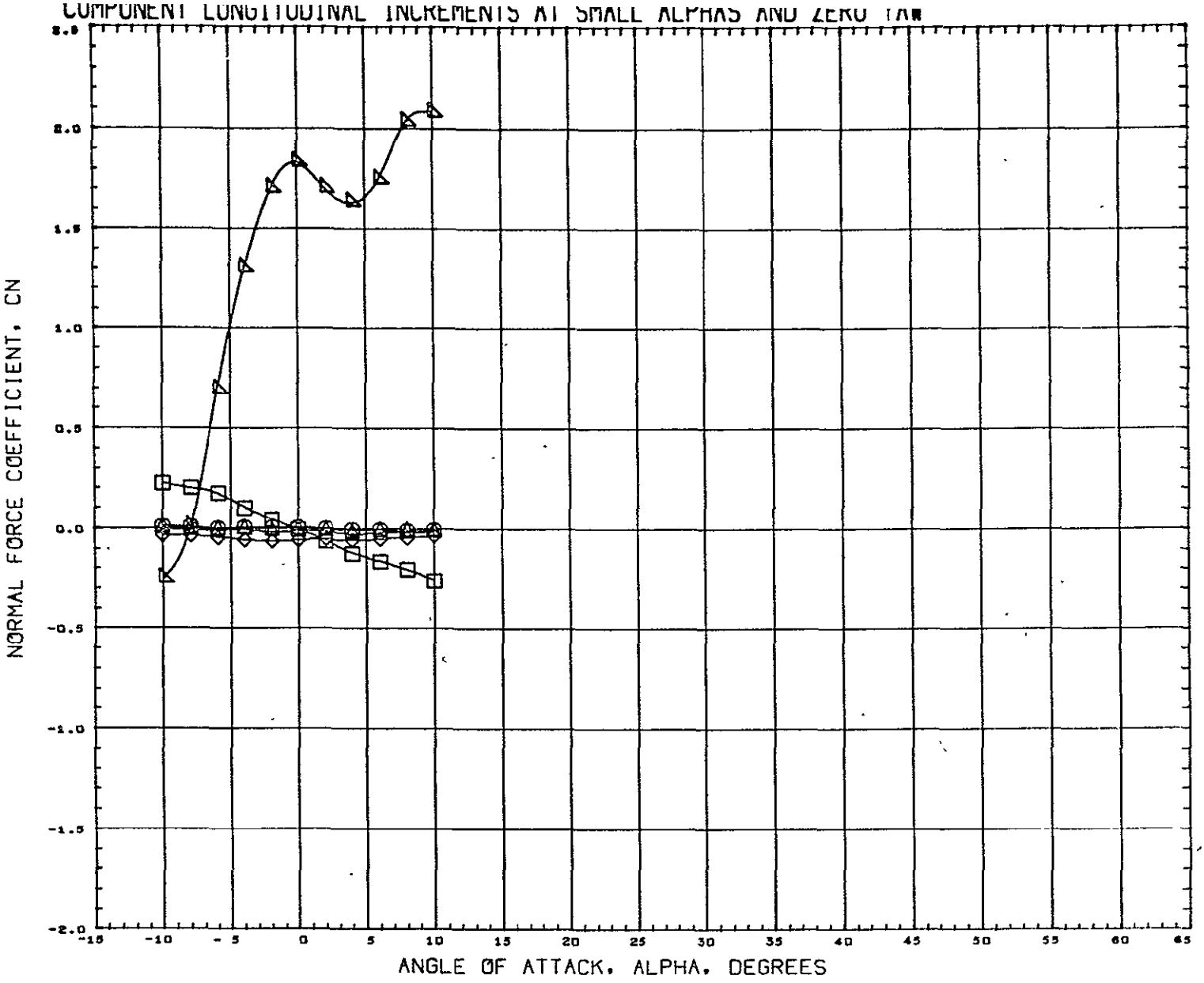
SYMBOL	MACH		PARAMETRIC VALUES		
	0.600	BETA	0.000	DEL	0.000
	0.900	DER	0.000	ELEVON	0.000
	1.100	AILRON	0.000		
	1.500				
	2.000				

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO TAB



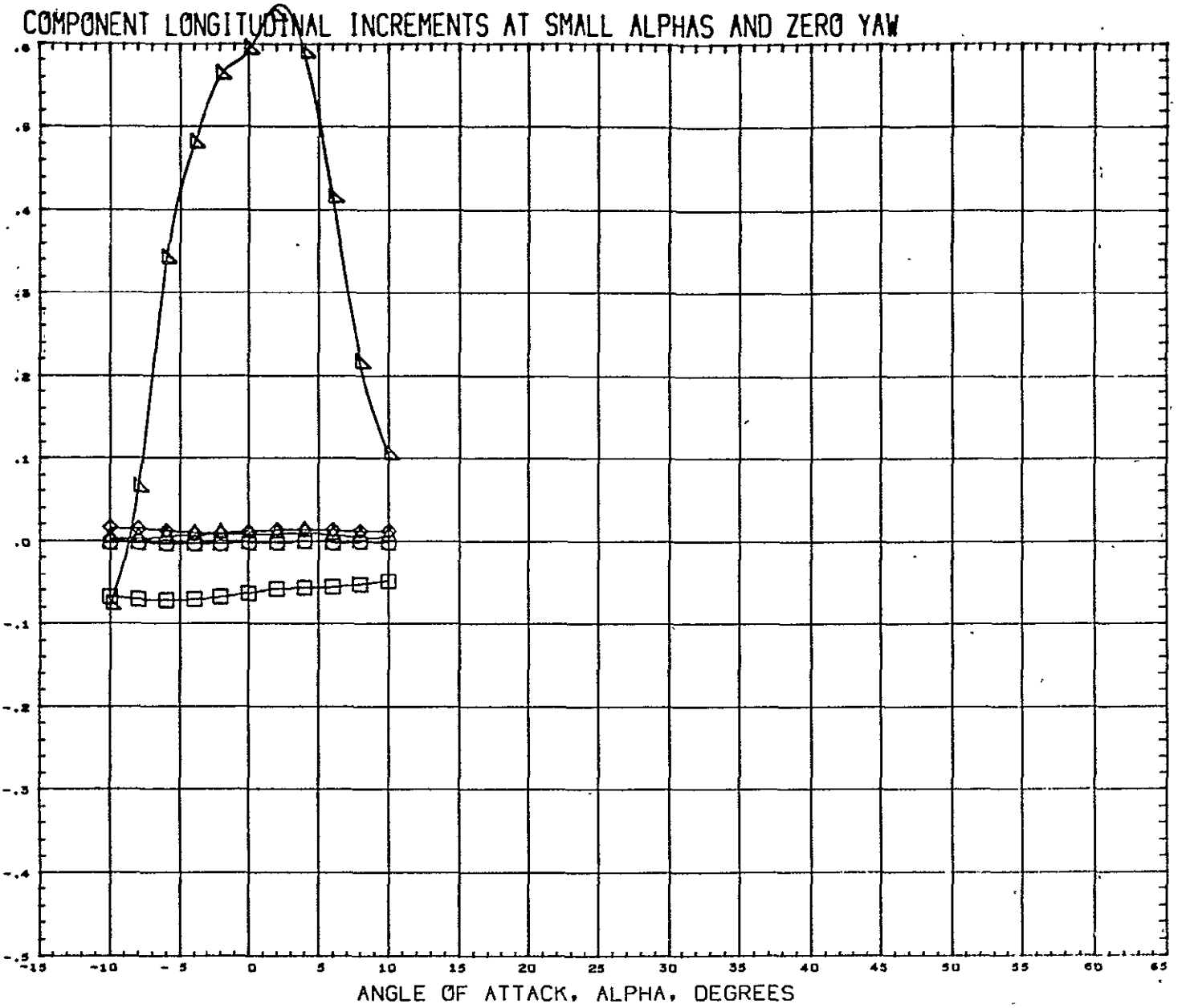
SYMBOL	MACH		PARAMETRIC VALUES		
○	0.600	DEL	0.000	DER	0.000
△	0.900	DCL	0.000	DCR	0.000
◇	1.100	ELEVON	0.000	CANARD	0.000
□	1.500	AILRON	0.000		
▽	2.000				

DATA HIST. CODE MVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW



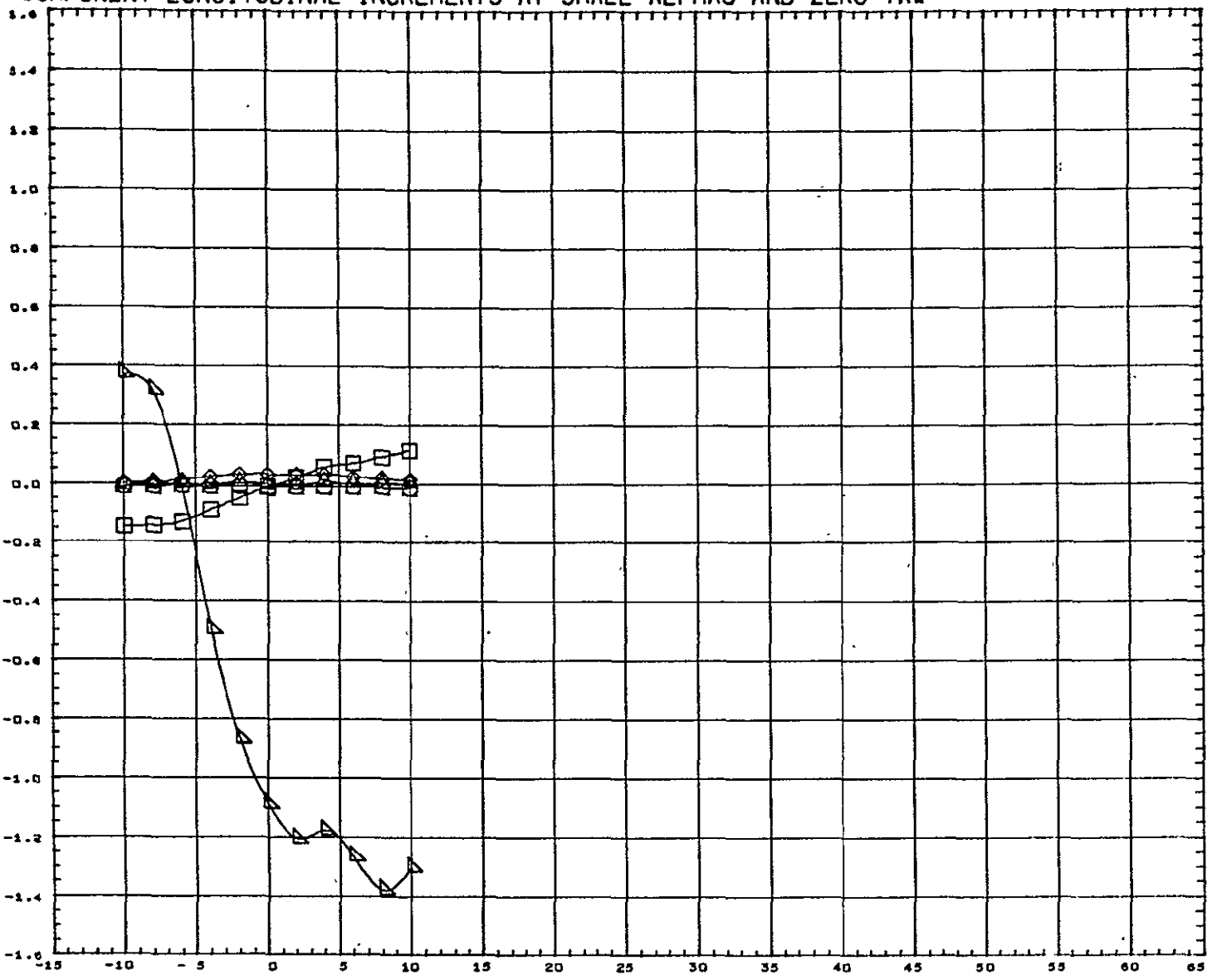
SYMBOL	MACH		PARAMETRIC VALUES		
○	0.600	DEL	0.000	DER	0.000
△	0.900	DCL	0.000	DCR	0.000
◇	1.100	ELEVON	0.000	CANARD	0.000
□	1.500	AILRON	0.000		
▽	2.000				

DATA HIST. CODE HVR*EI*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO YAW

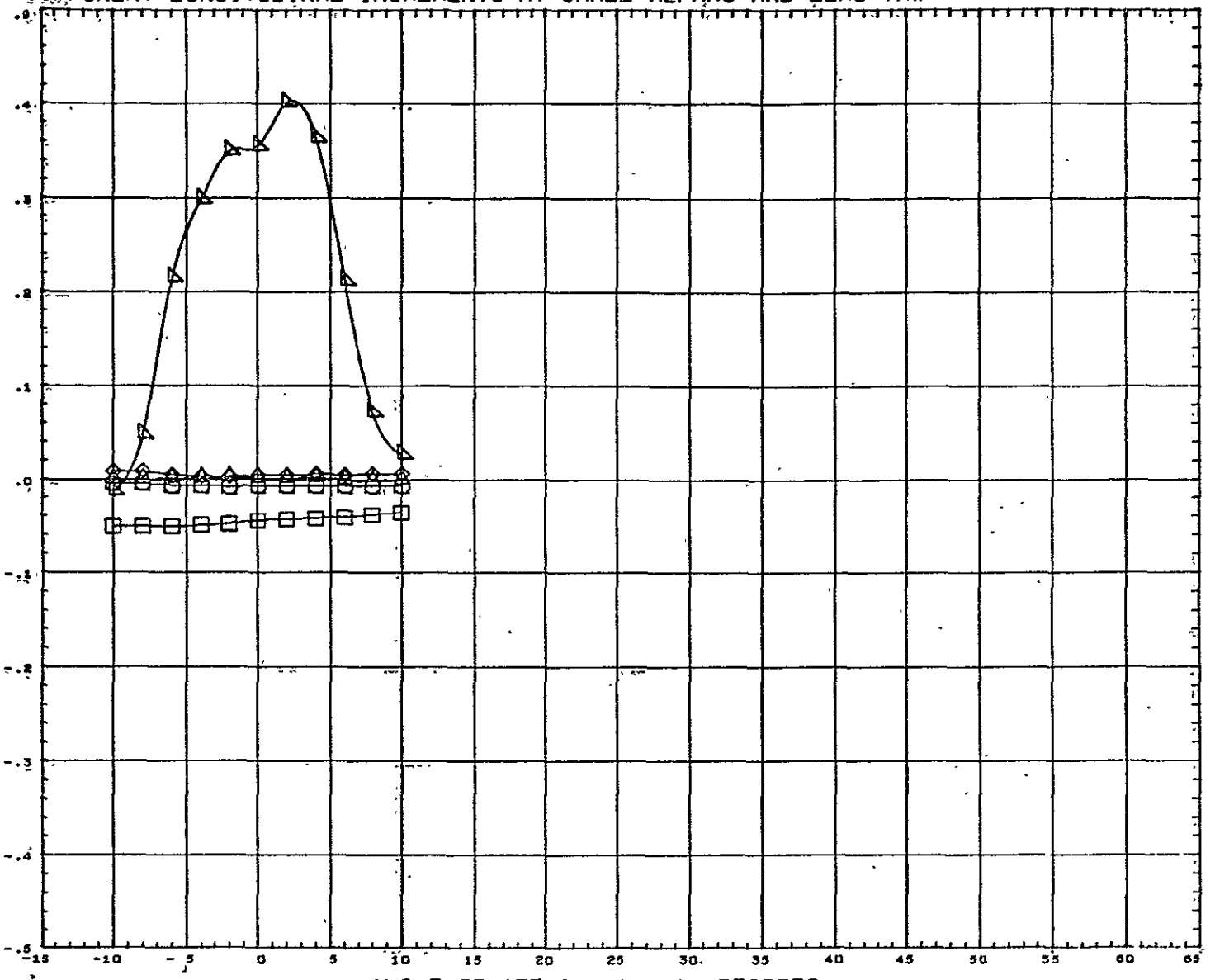


SYMBOL	MACH		PARAMETRIC VALUES		
○	0.600	DEL	0.000	DER	0.000
△	0.900	DCL	0.000	DCR	0.000
◇	1.100	ELEVON	0.000	CANARD	0.000
□	1.500	AILRON	0.000		
▽	2.000				

DATA HIST. CODE MVR*EI*C

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPONENT LONGITUDINAL INCREMENTS AT SMALL ALPHAS AND ZERO TAB



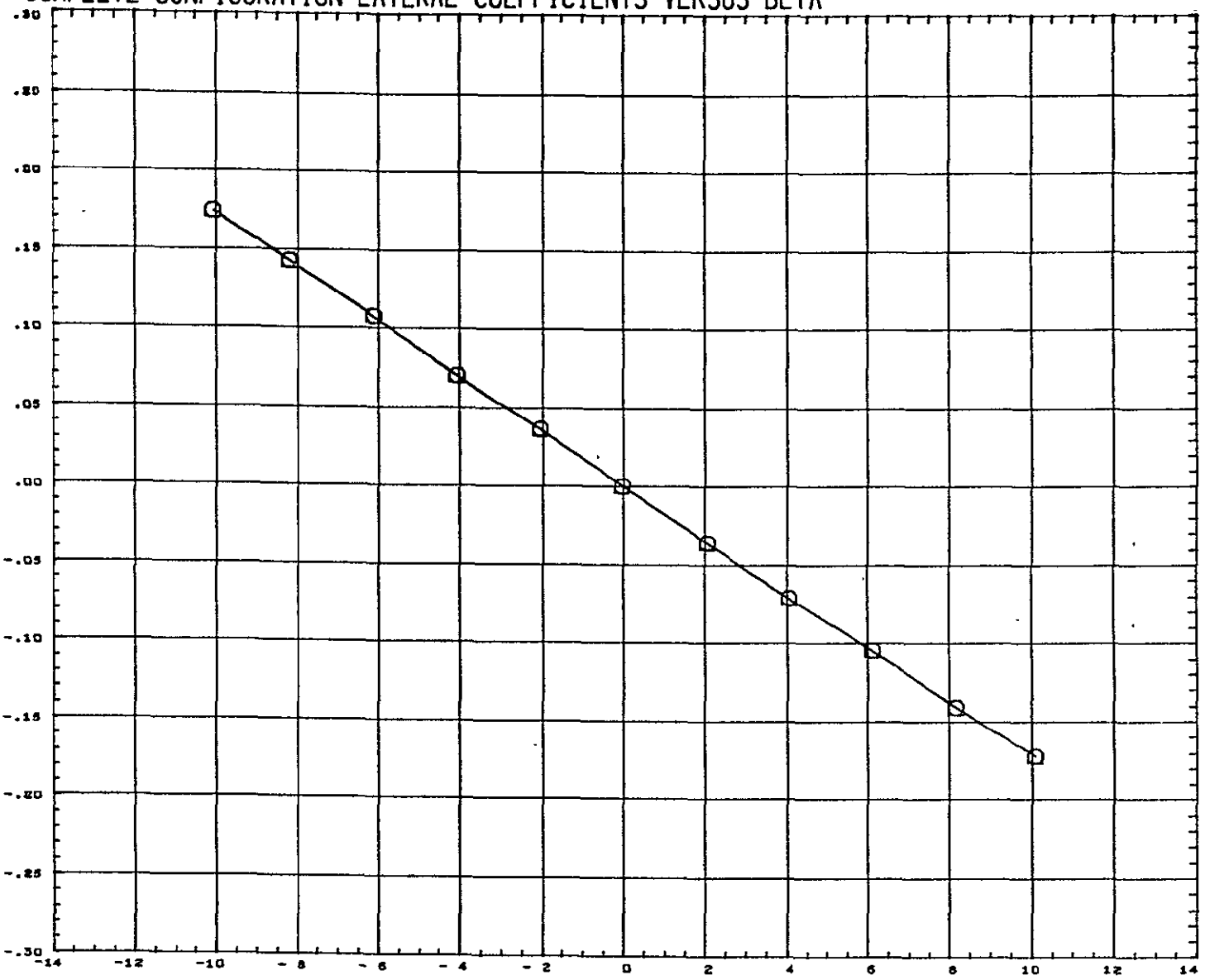
SYMBOL	MACH		PARAMETRIC VALUES		
	0.600	DEL	0.000	DER	0.000
	0.900	DCL	0.000	DCR	0.000
	1.100	ELEVON	0.000	CANARD	0.000
	1.500	AILRON	0.000		
	2.000				

DATA HIST. CODE HVR*E1*C

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA



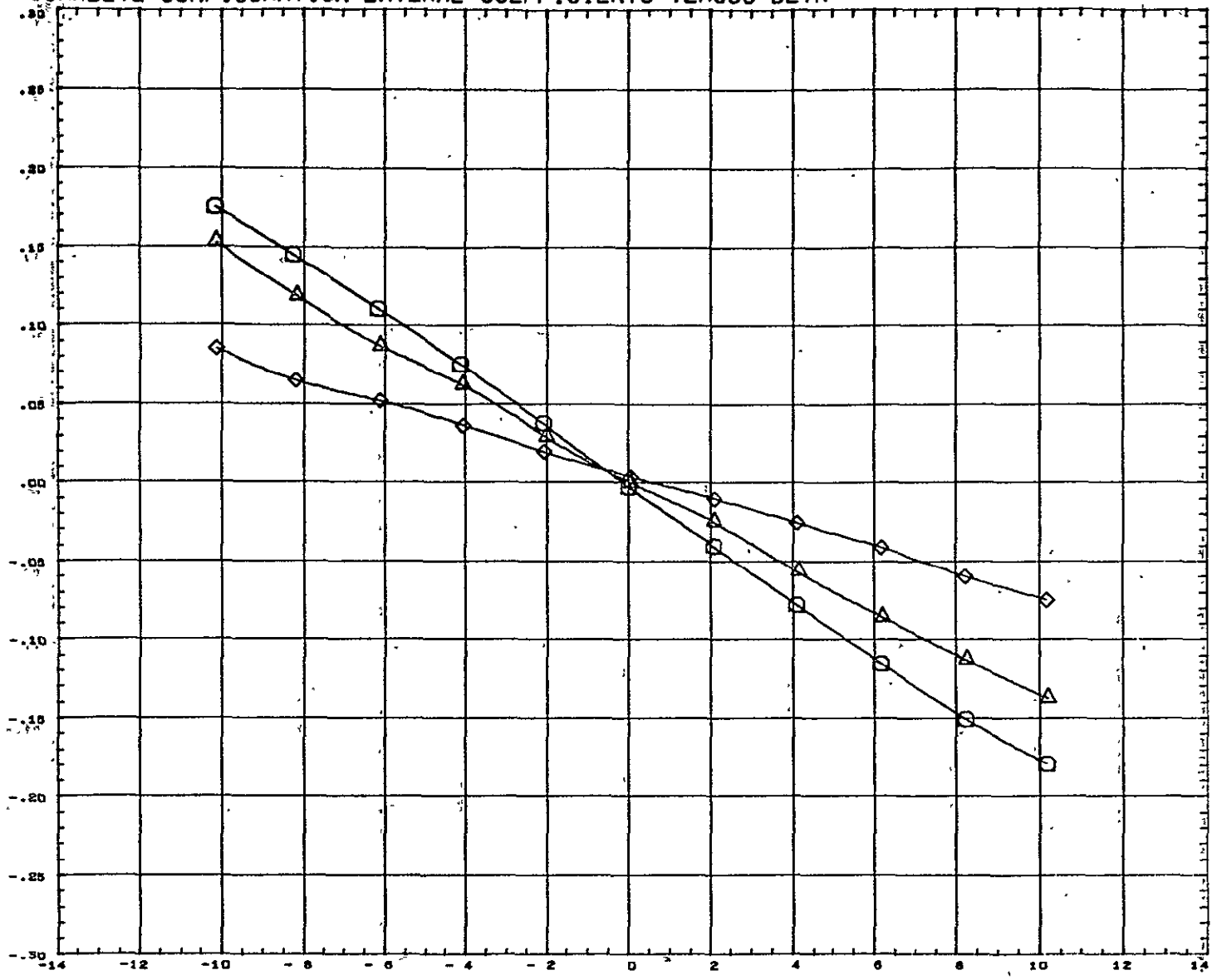
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7
(F28Y21)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y31)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 0.607

ALPHA	CANARD	ELEVON	RUDDER
0.000	0.000	0.000	
15.000	0.000	0.000	0.000
15.000	0.000	0.000	
35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

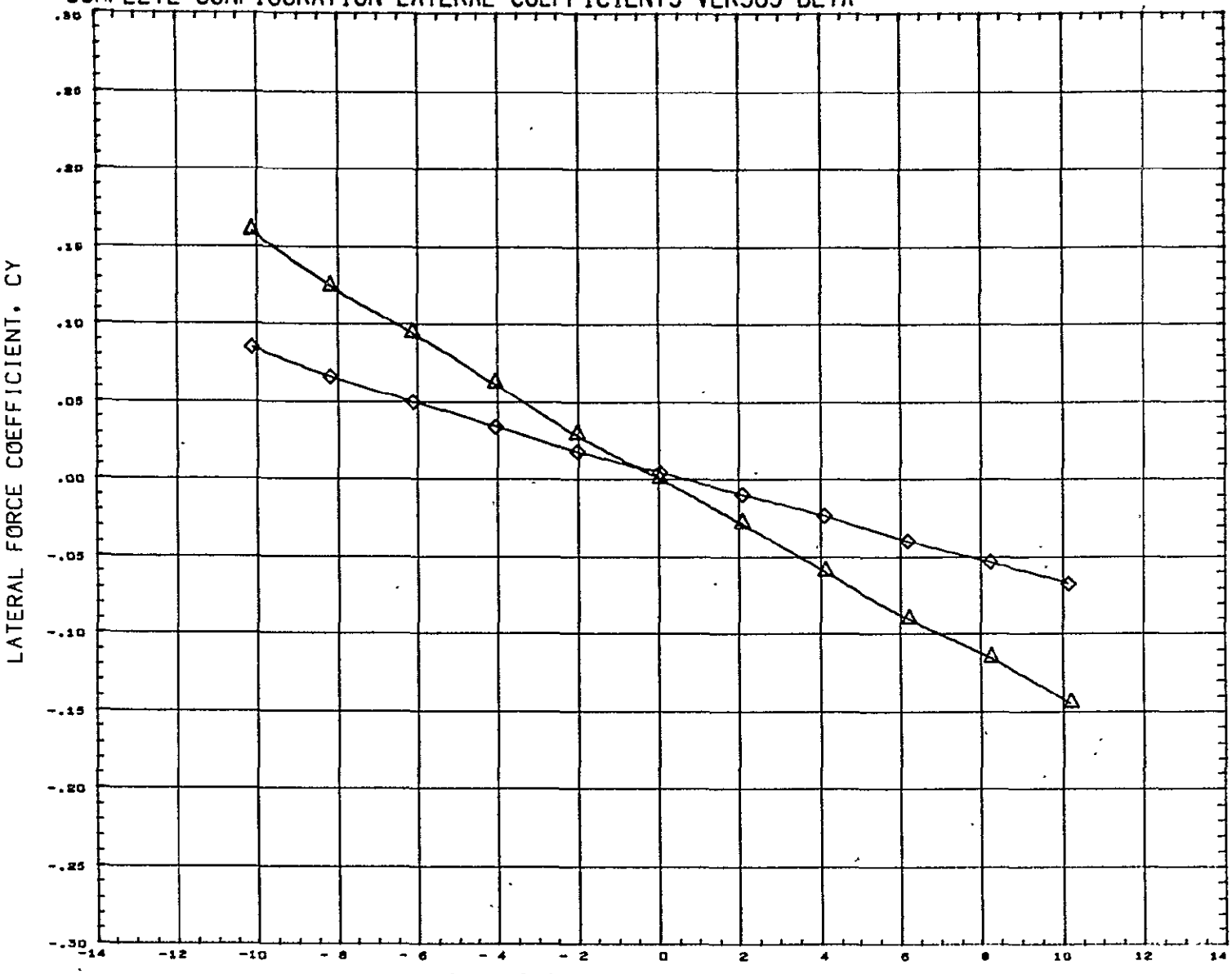


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

MACH 0.904

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

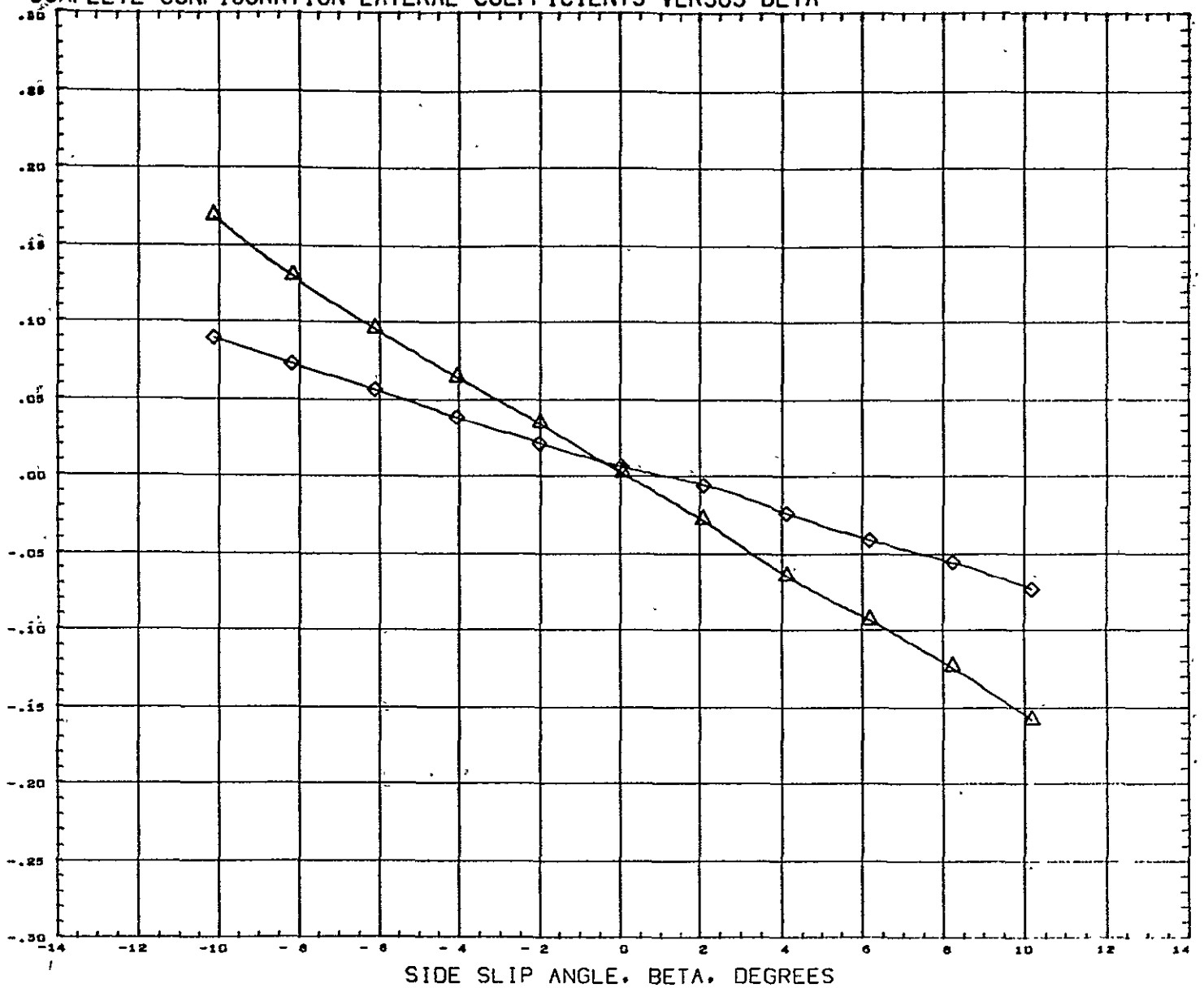


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.955

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

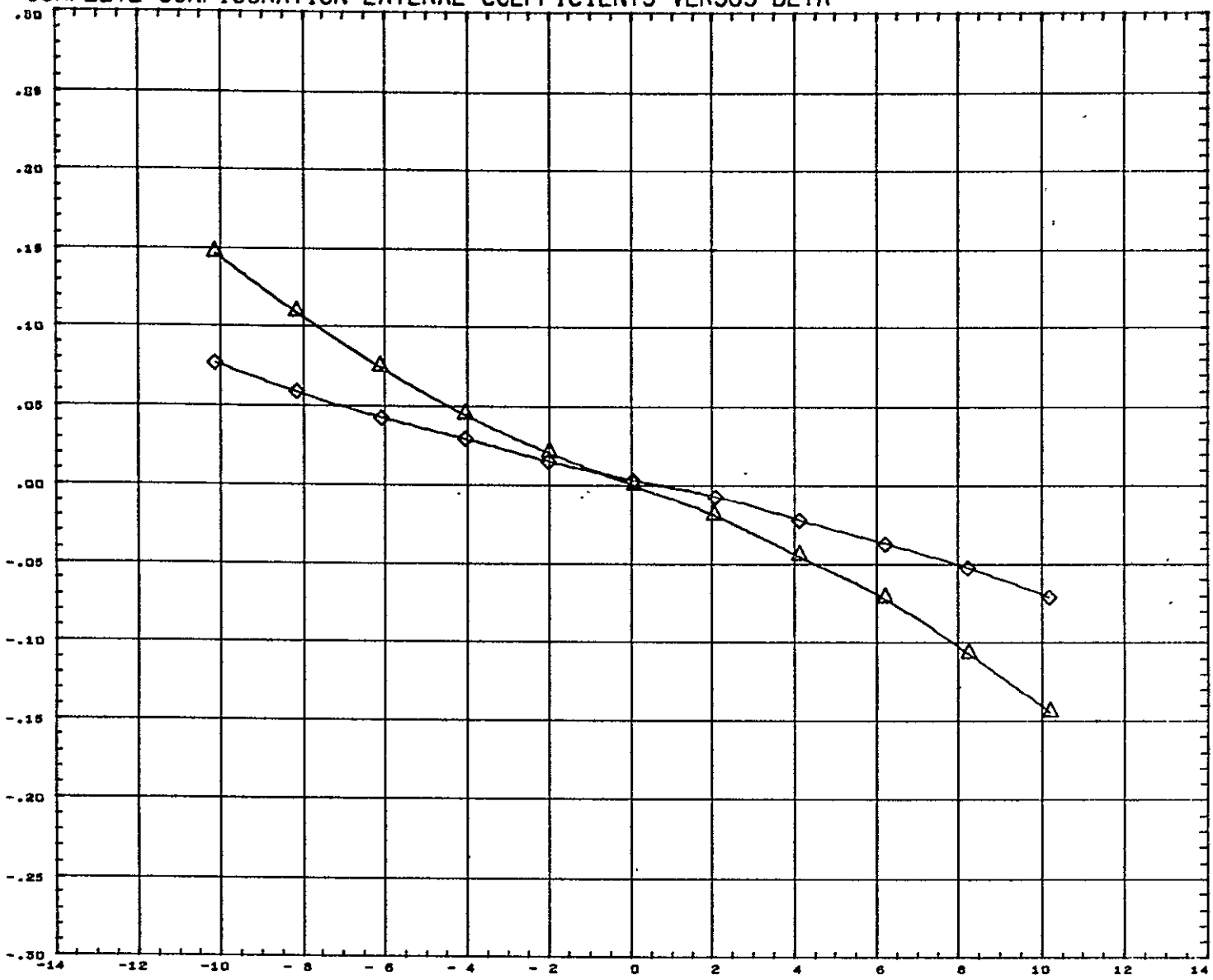


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F26Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F26Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.000

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

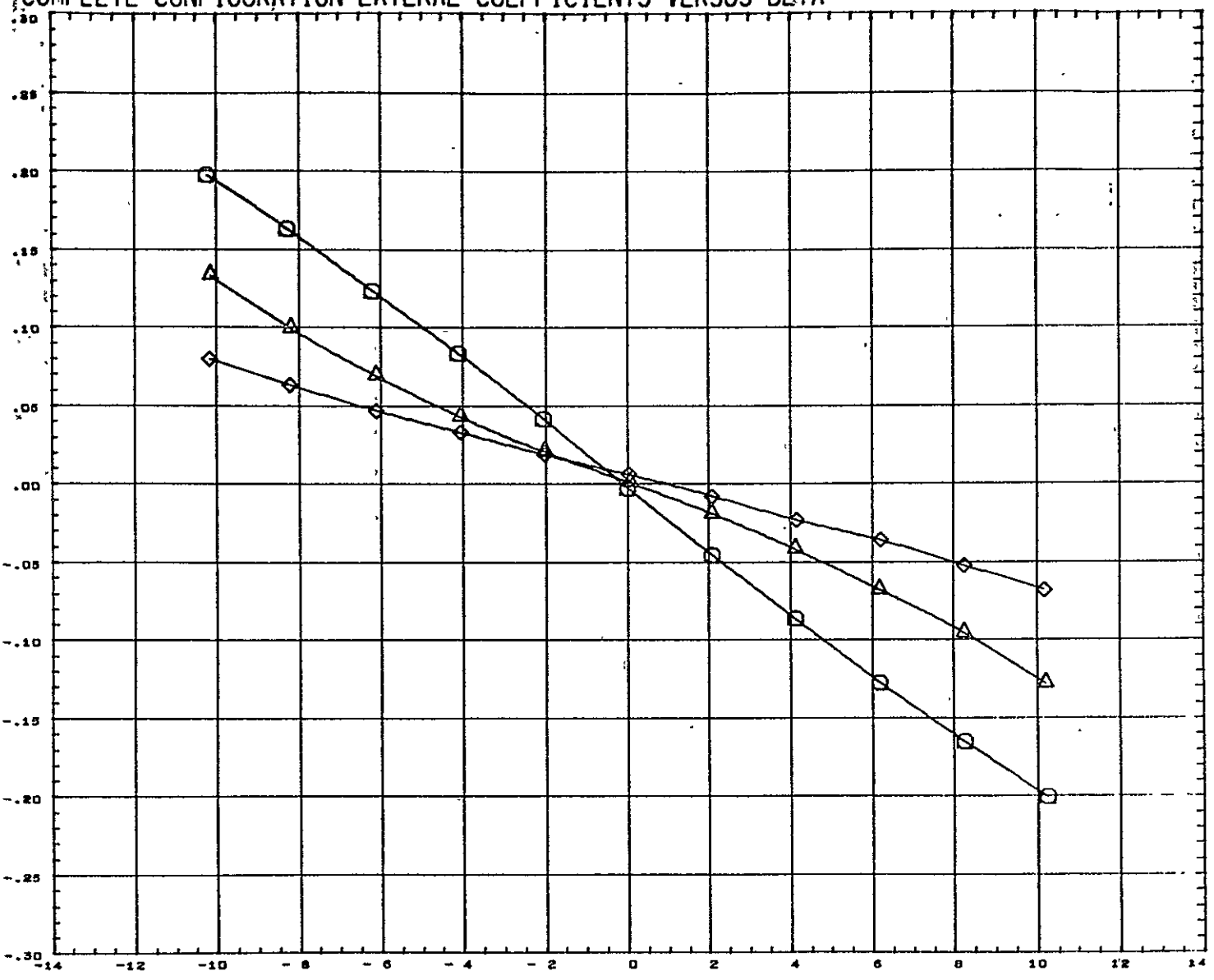


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

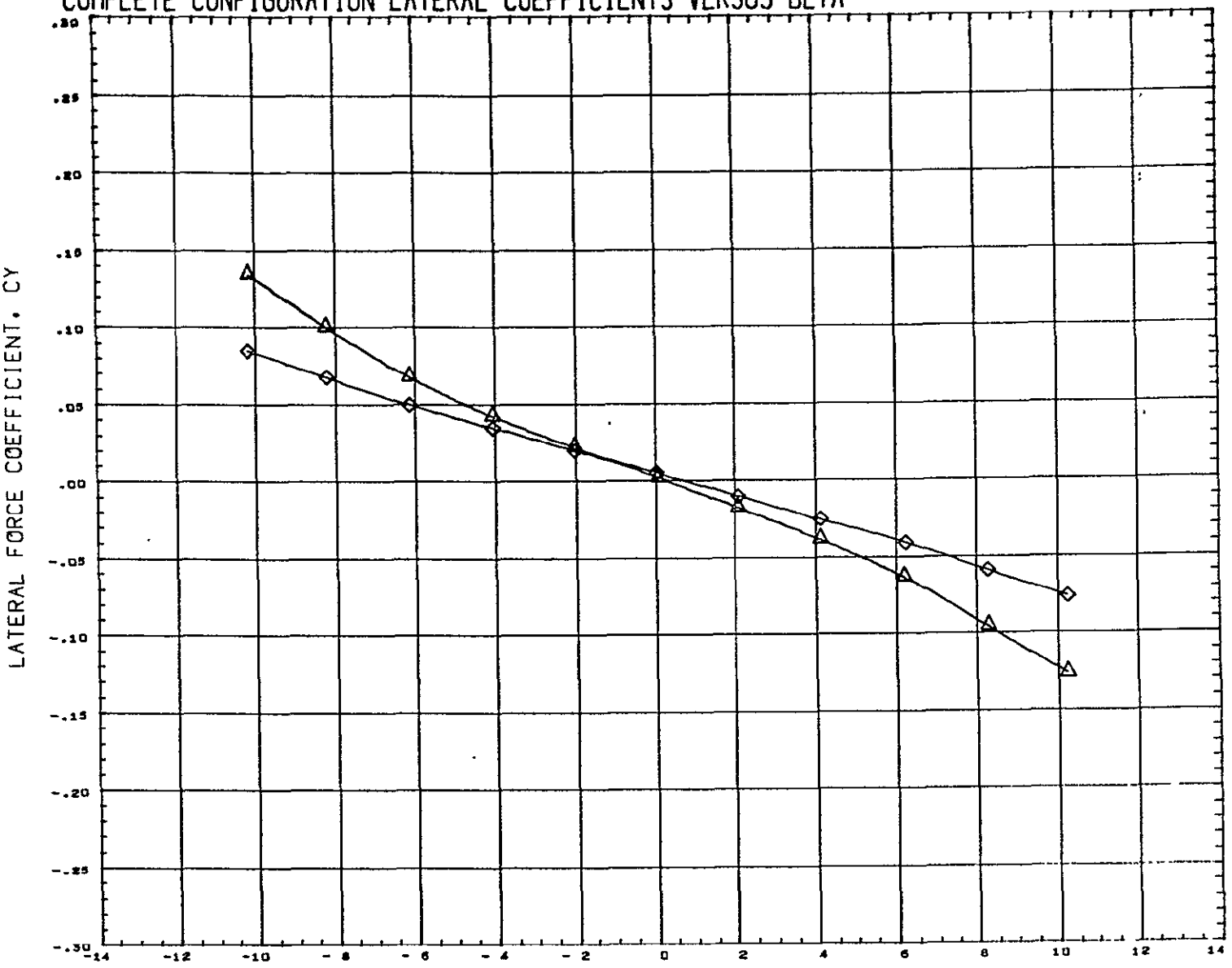


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	HSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	HSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	HSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.101

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

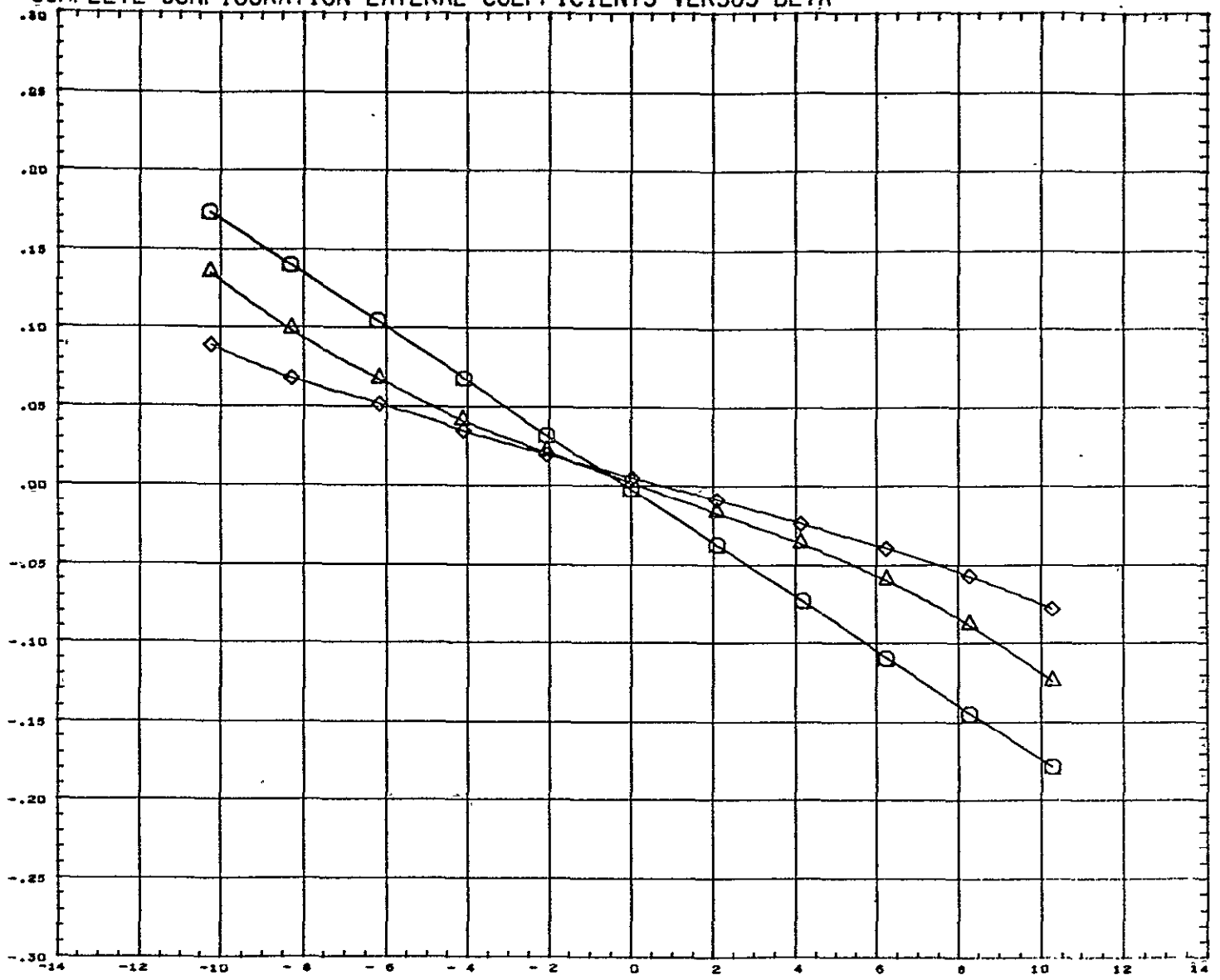


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.202

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

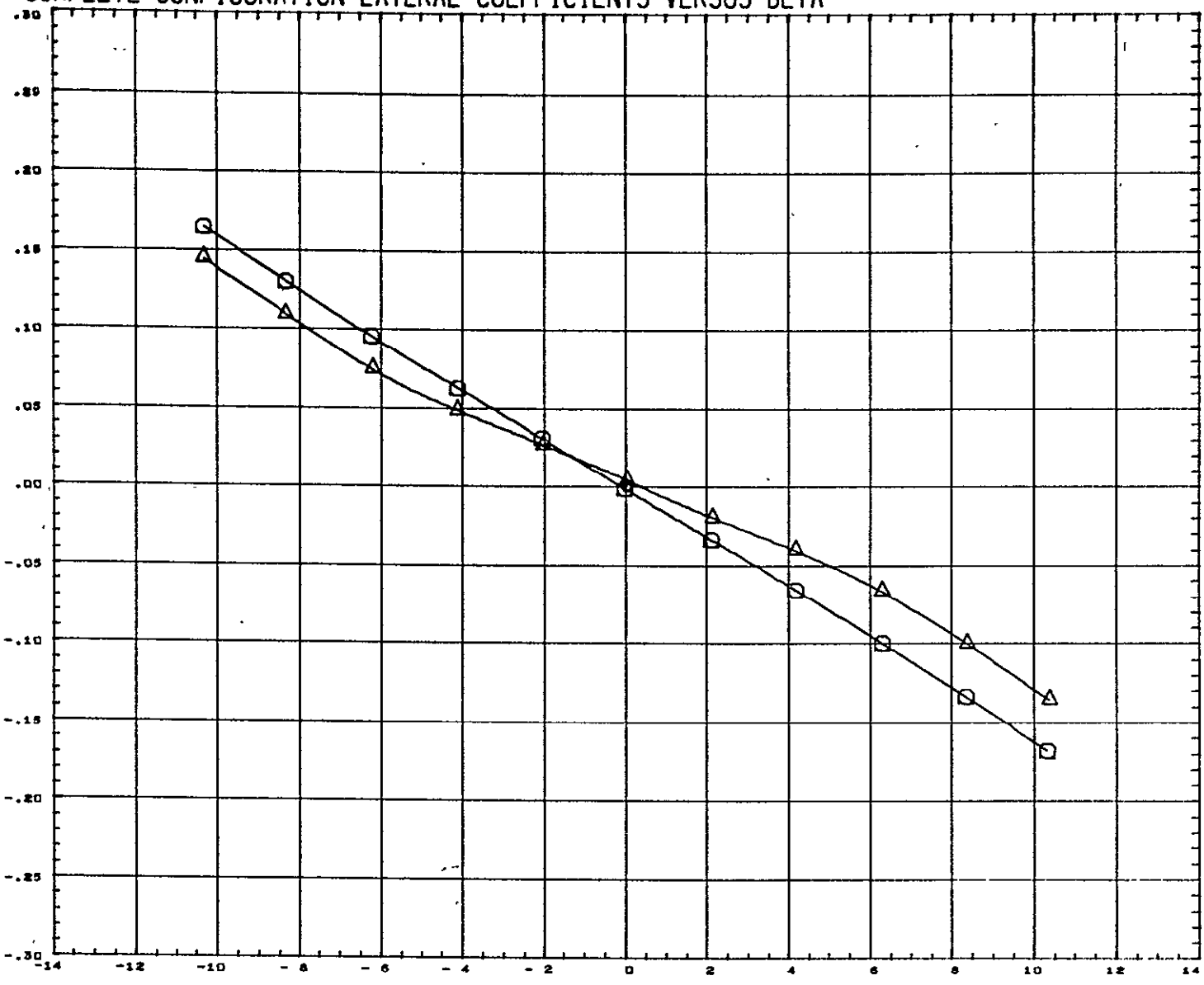


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.461

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

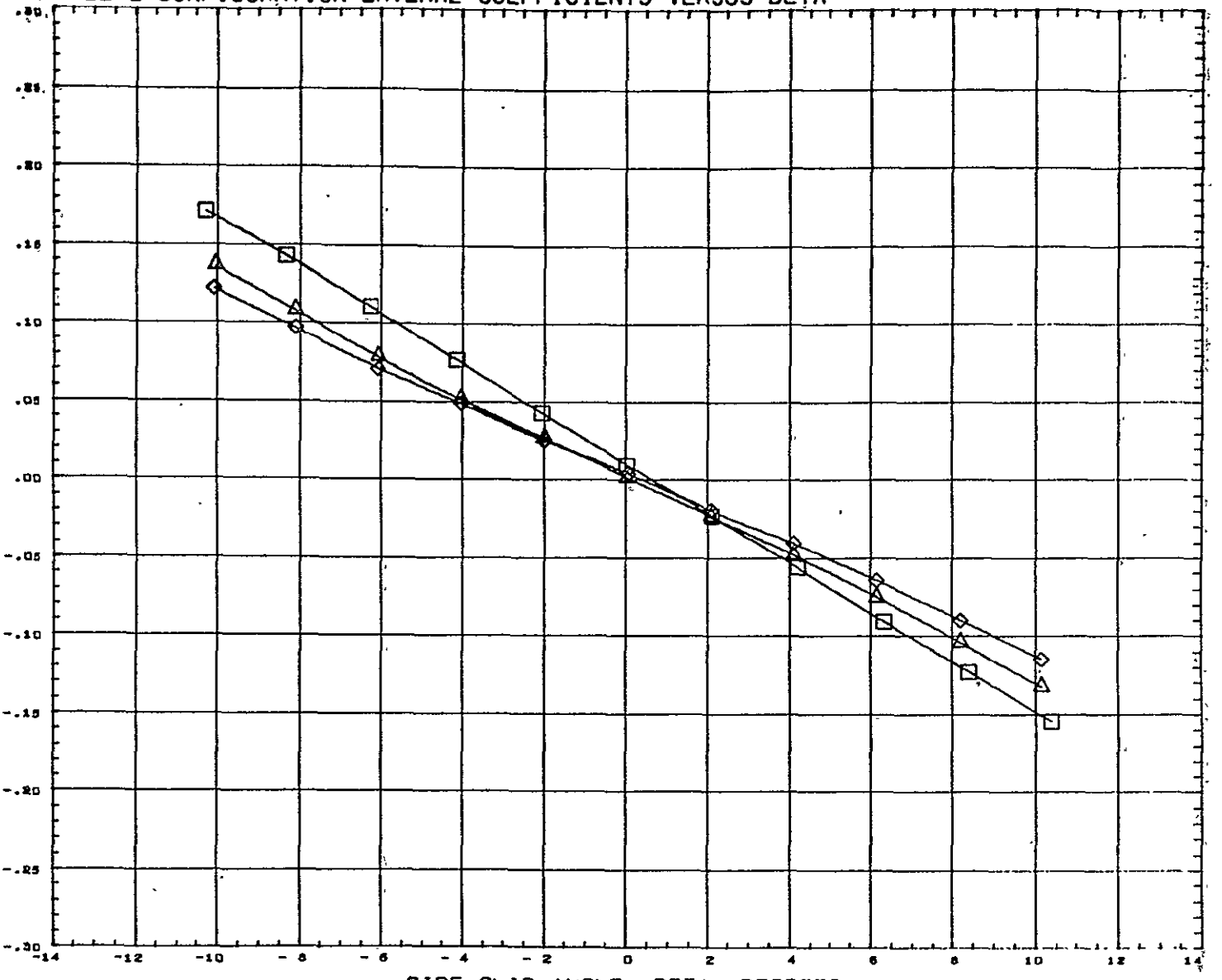


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.956

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

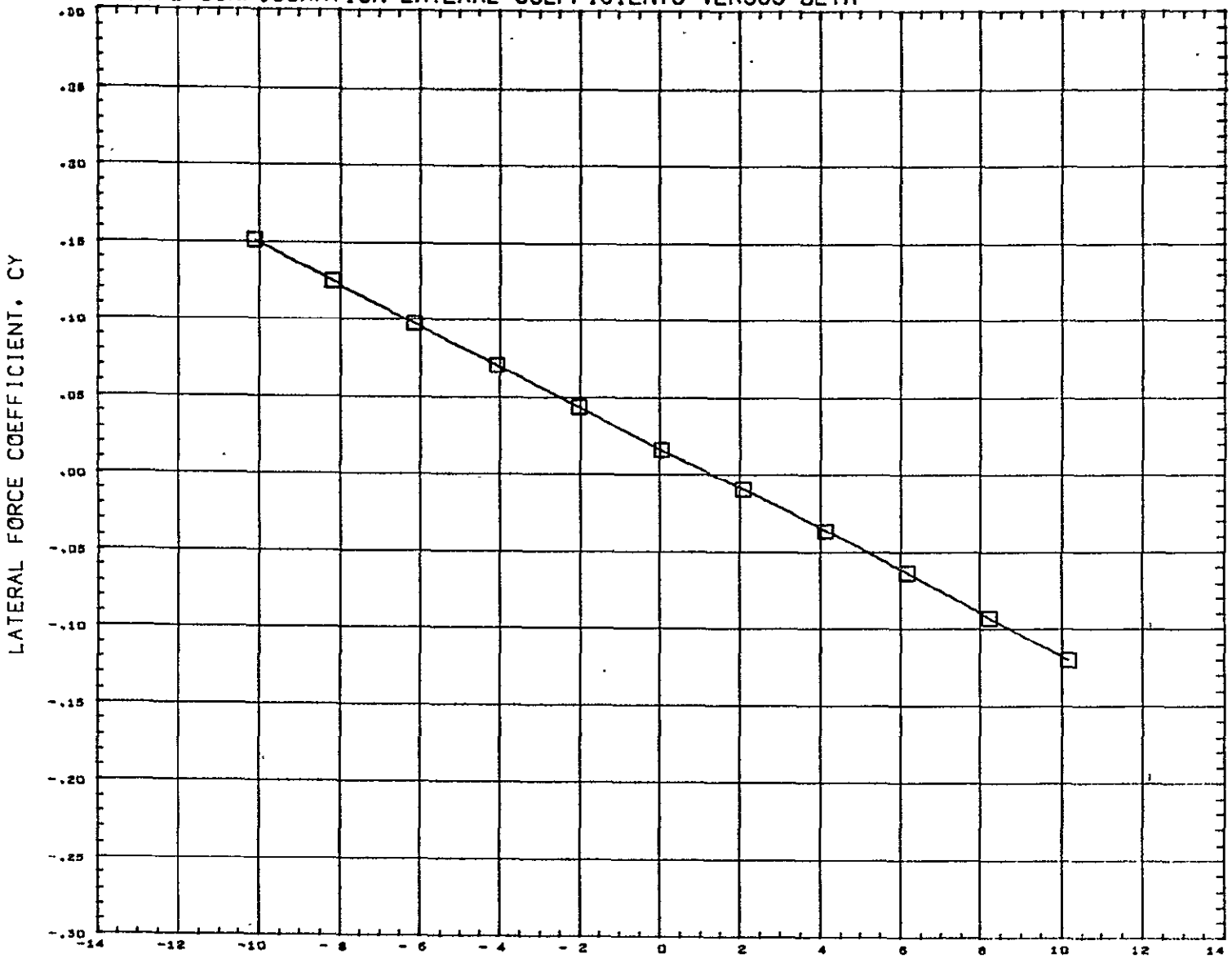


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F26Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F26Y41)	□	MSFC481 GD/C(BOOSTER)B19W14C4A	35.000	0.000	0.000	

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA



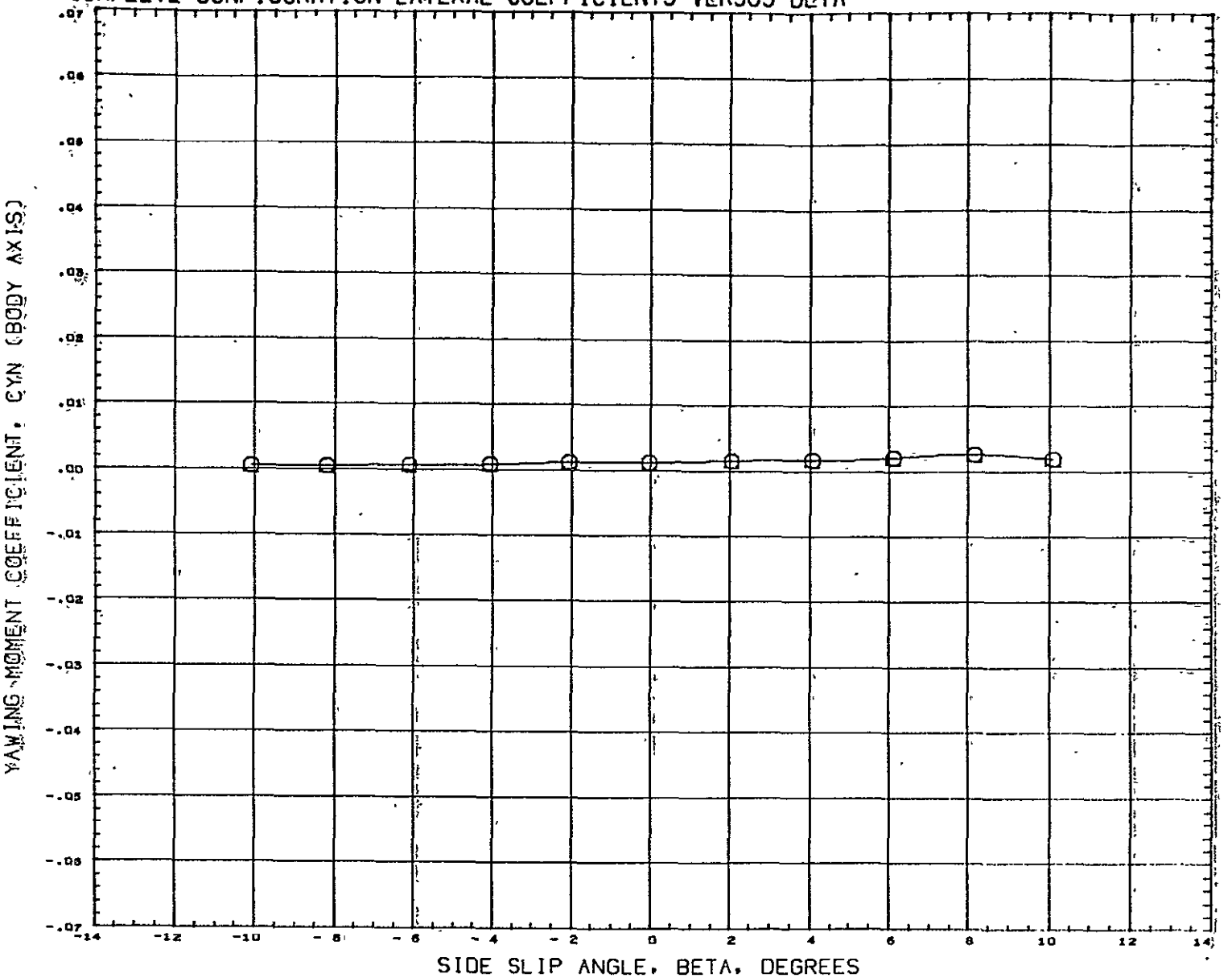
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y21)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y31)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y41)'	□	MSFC481 GD/C(BOOSTER)B19W14C4A

MACH 4.959

ALPHA	CANARD	ELEVON	RUDDER
0.000	0.000	0.000	
15.000	0.000	0.000	0.000
15.000	0.000	0.000	
35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

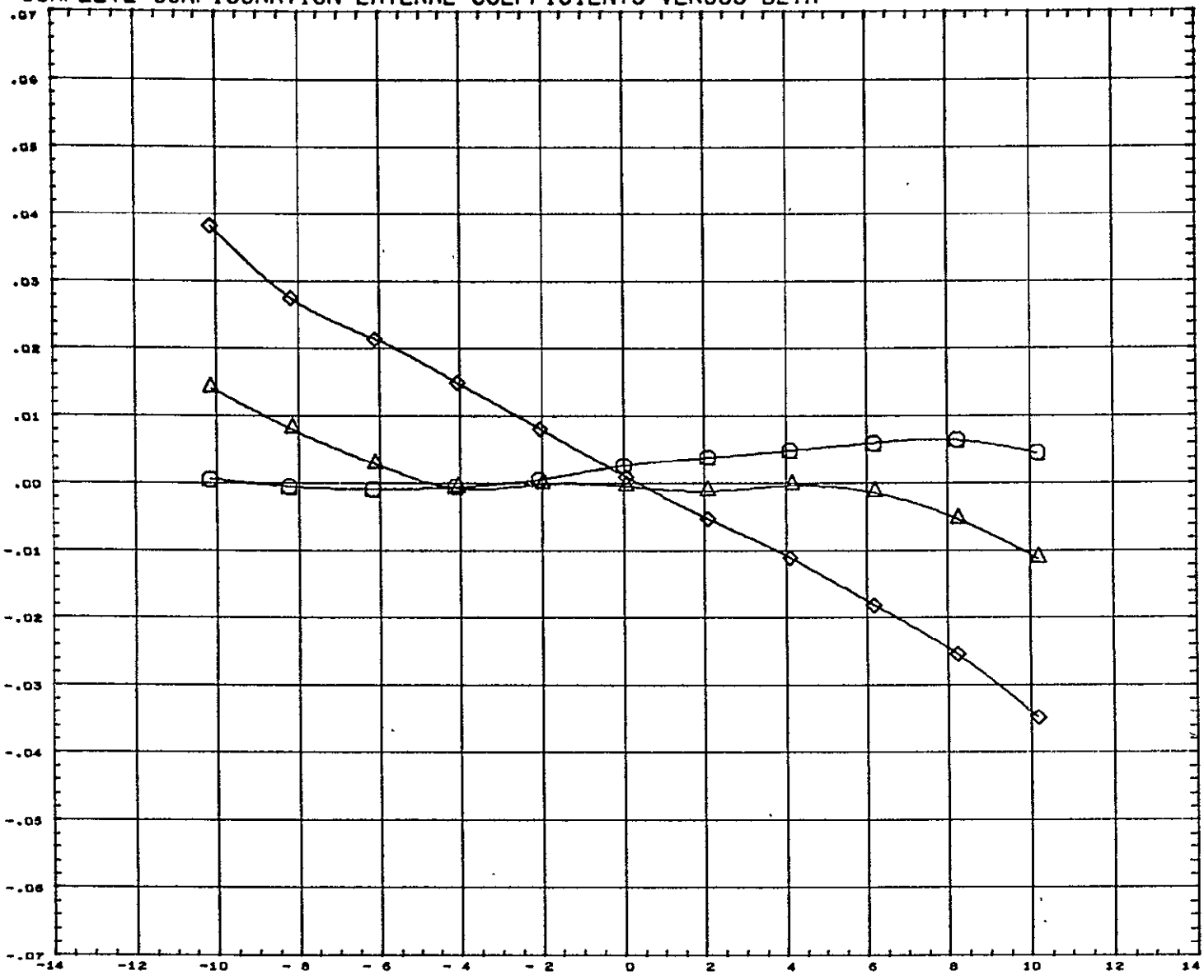


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000
(F28Y31)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

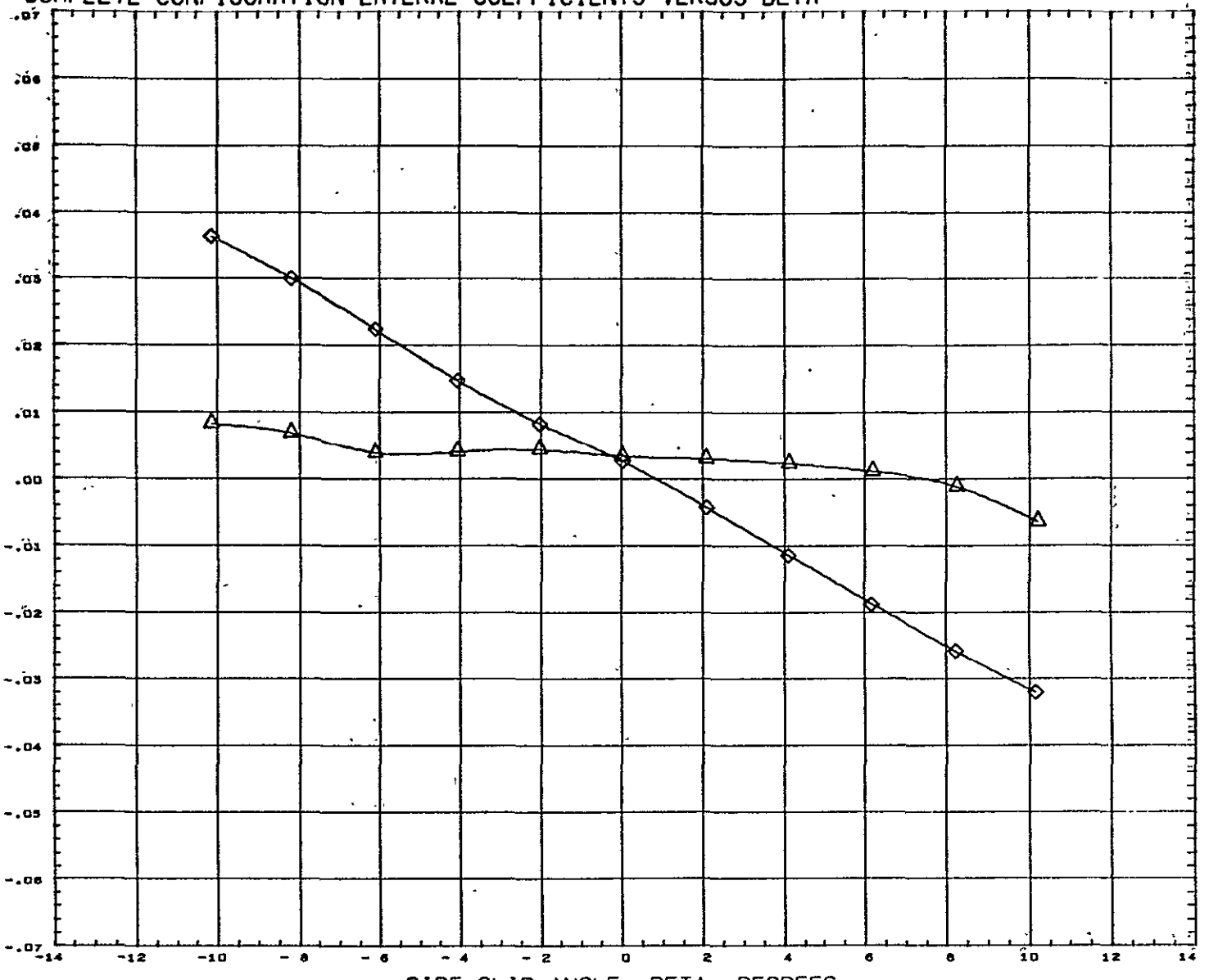


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.904

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

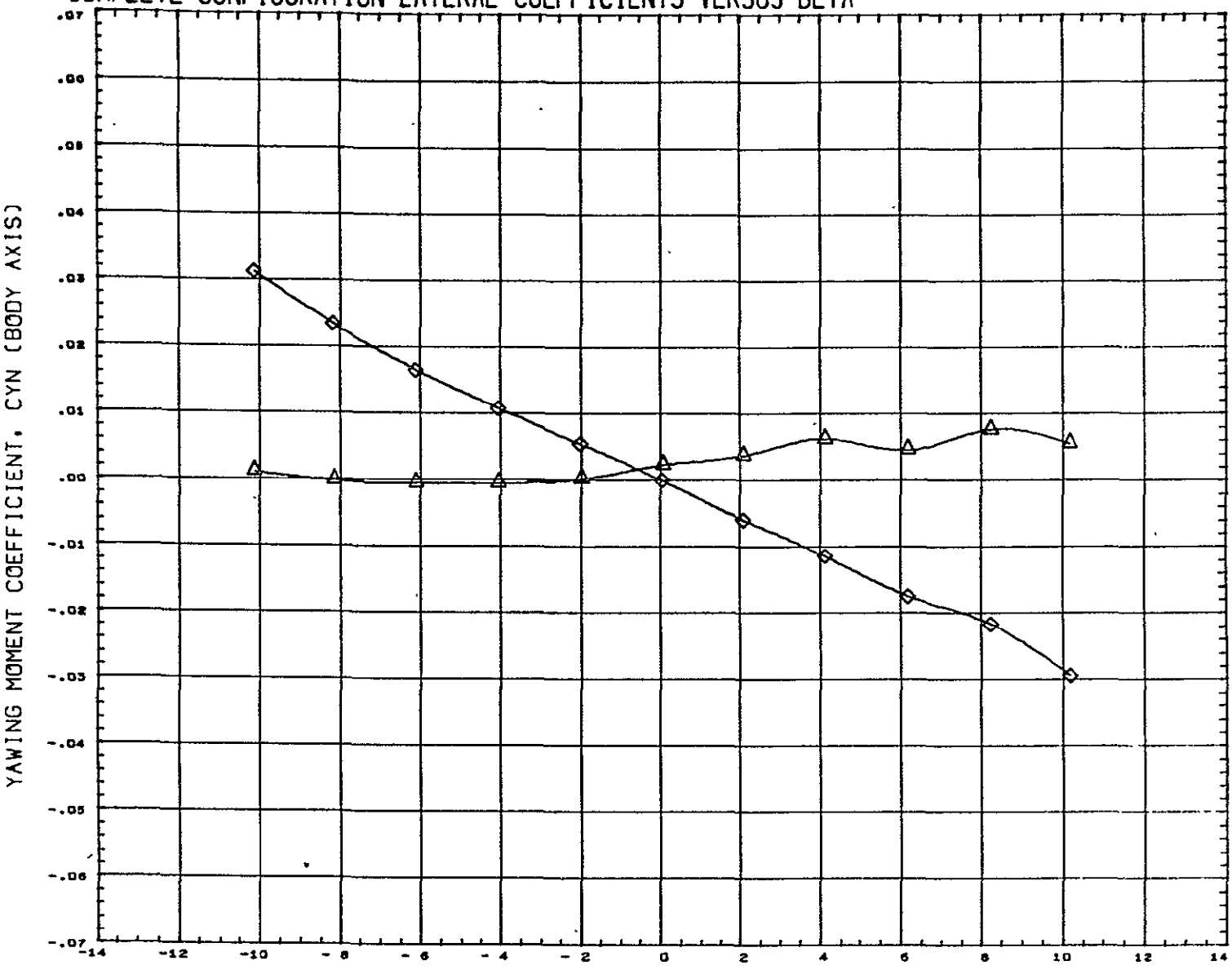


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)		MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)		DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.953

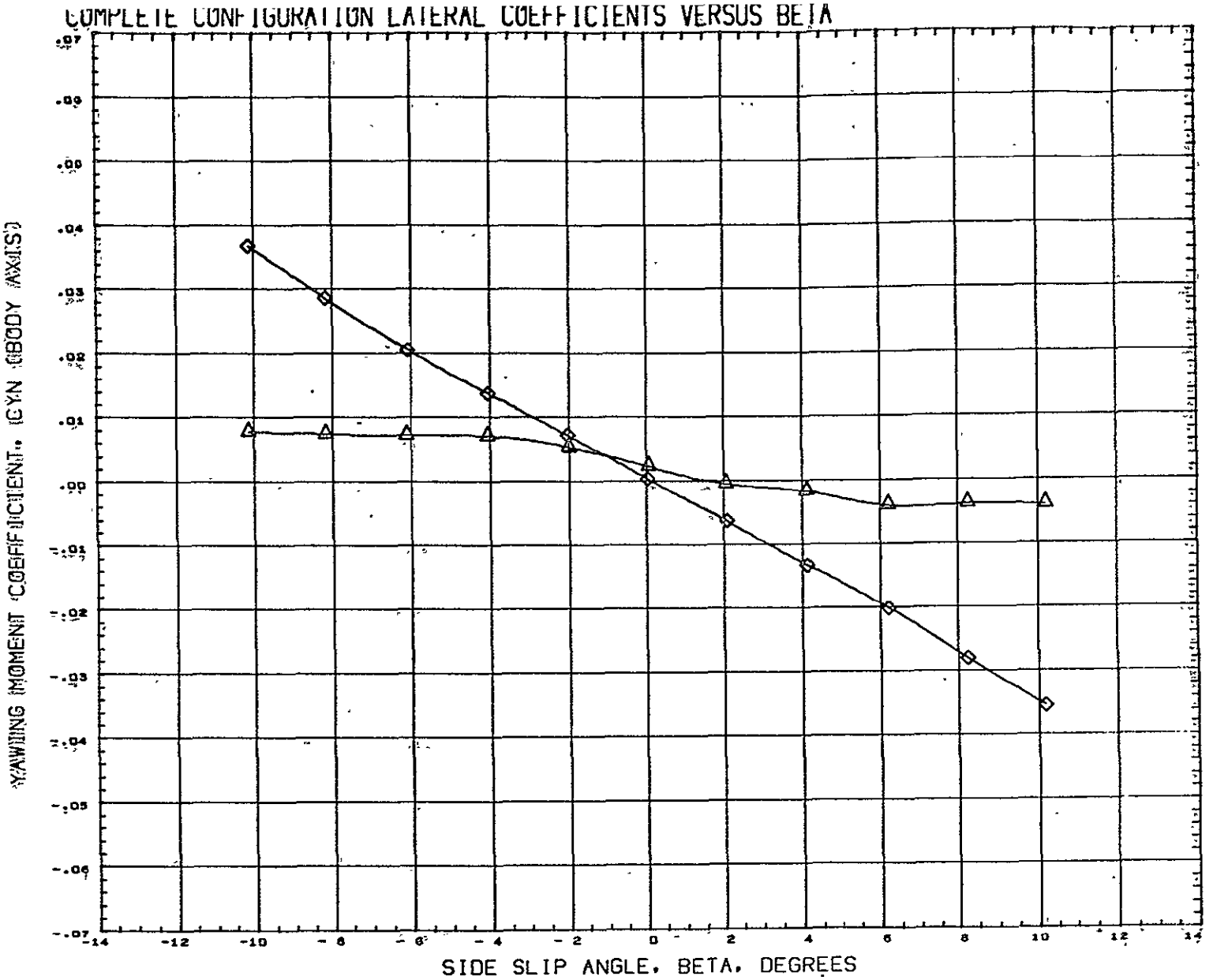
COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y33)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.000

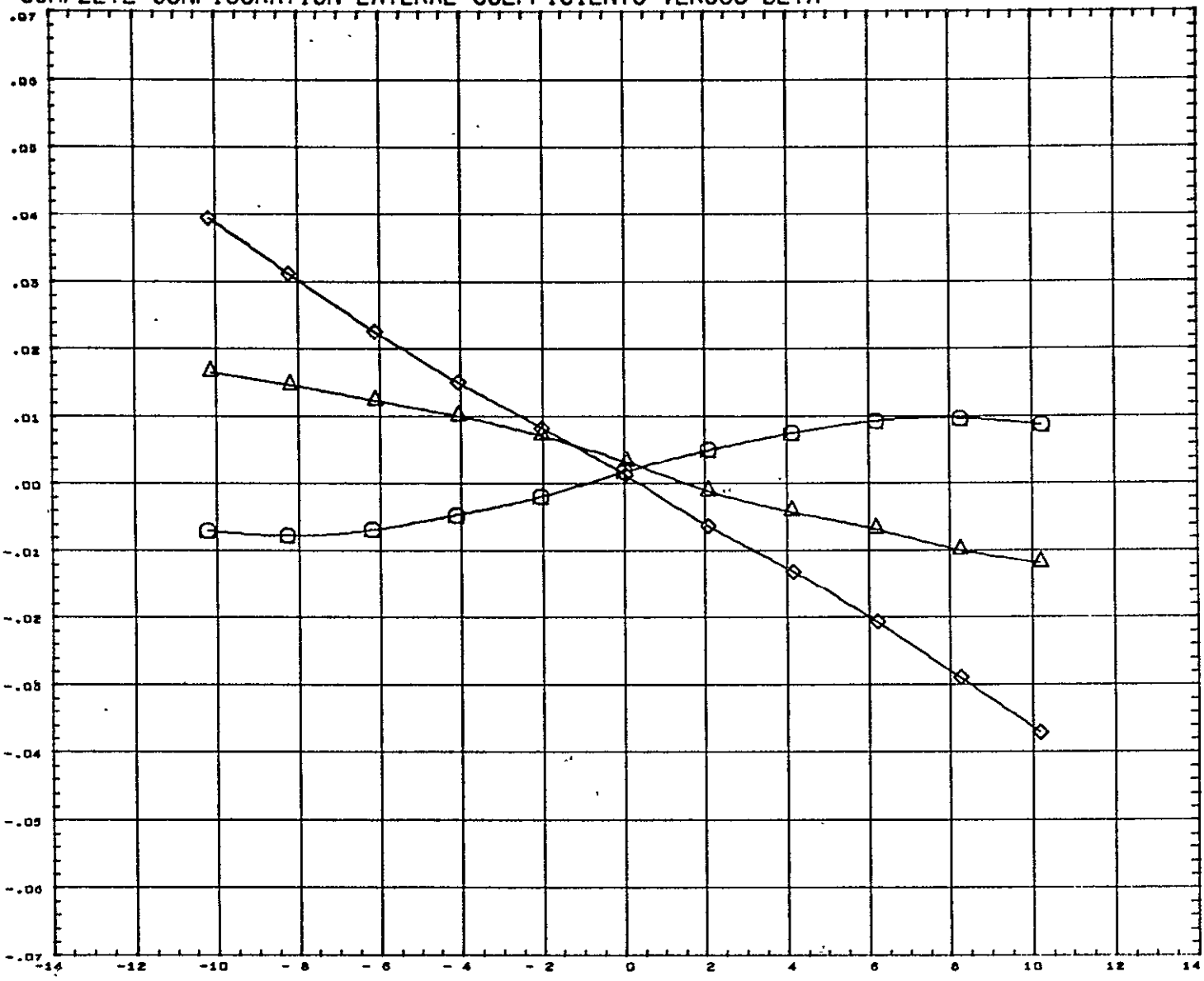


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

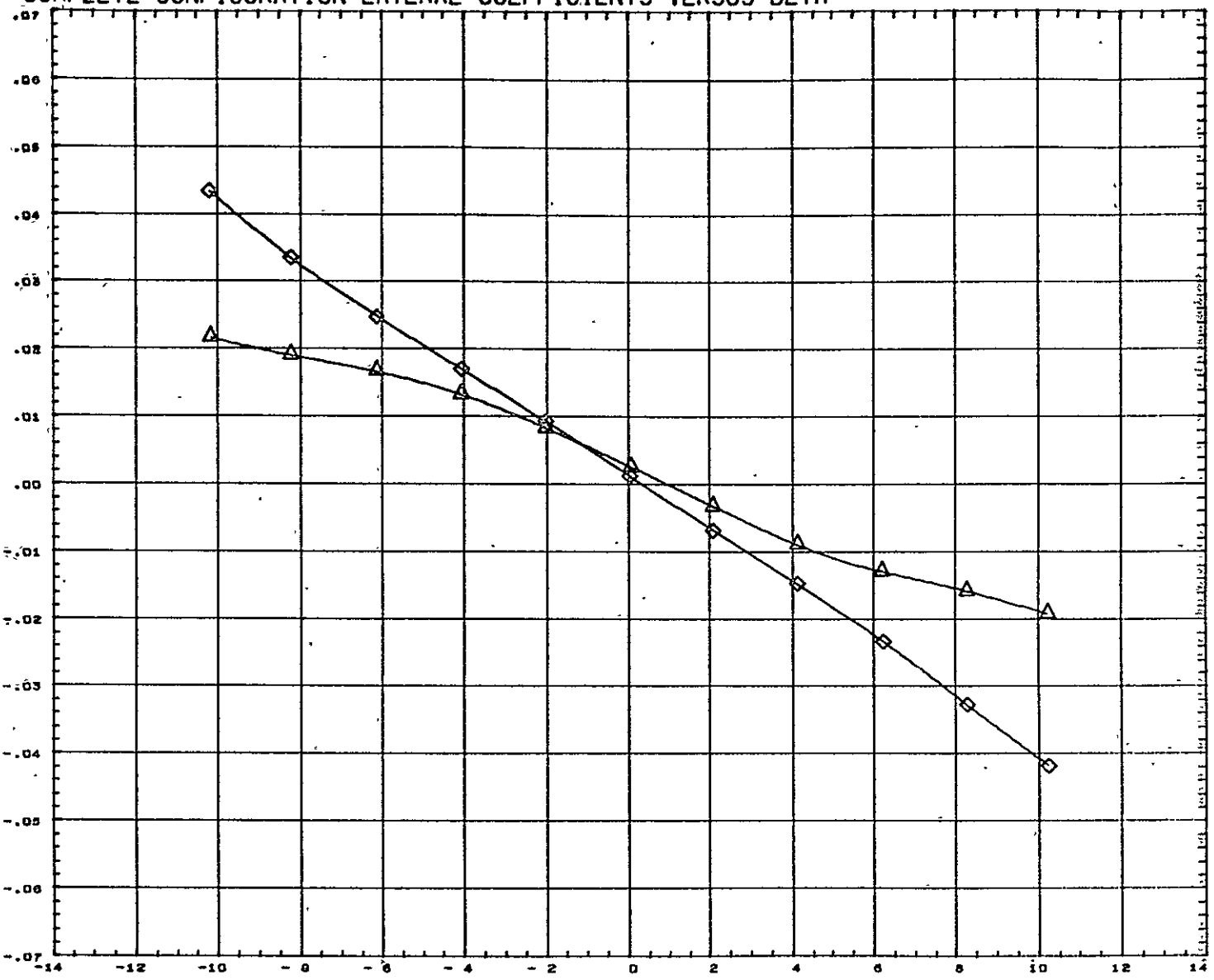


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y33)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.101

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

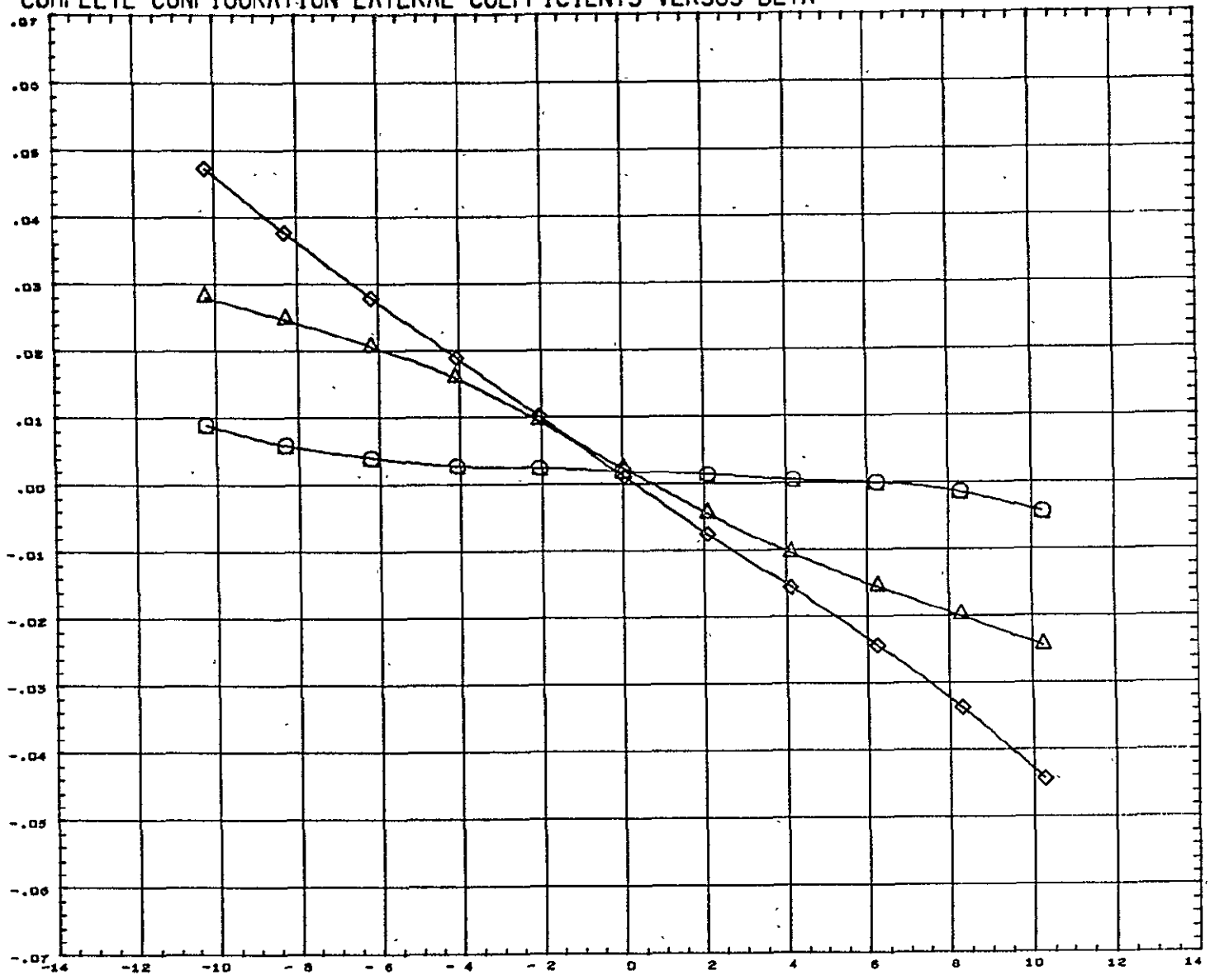


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.202

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA



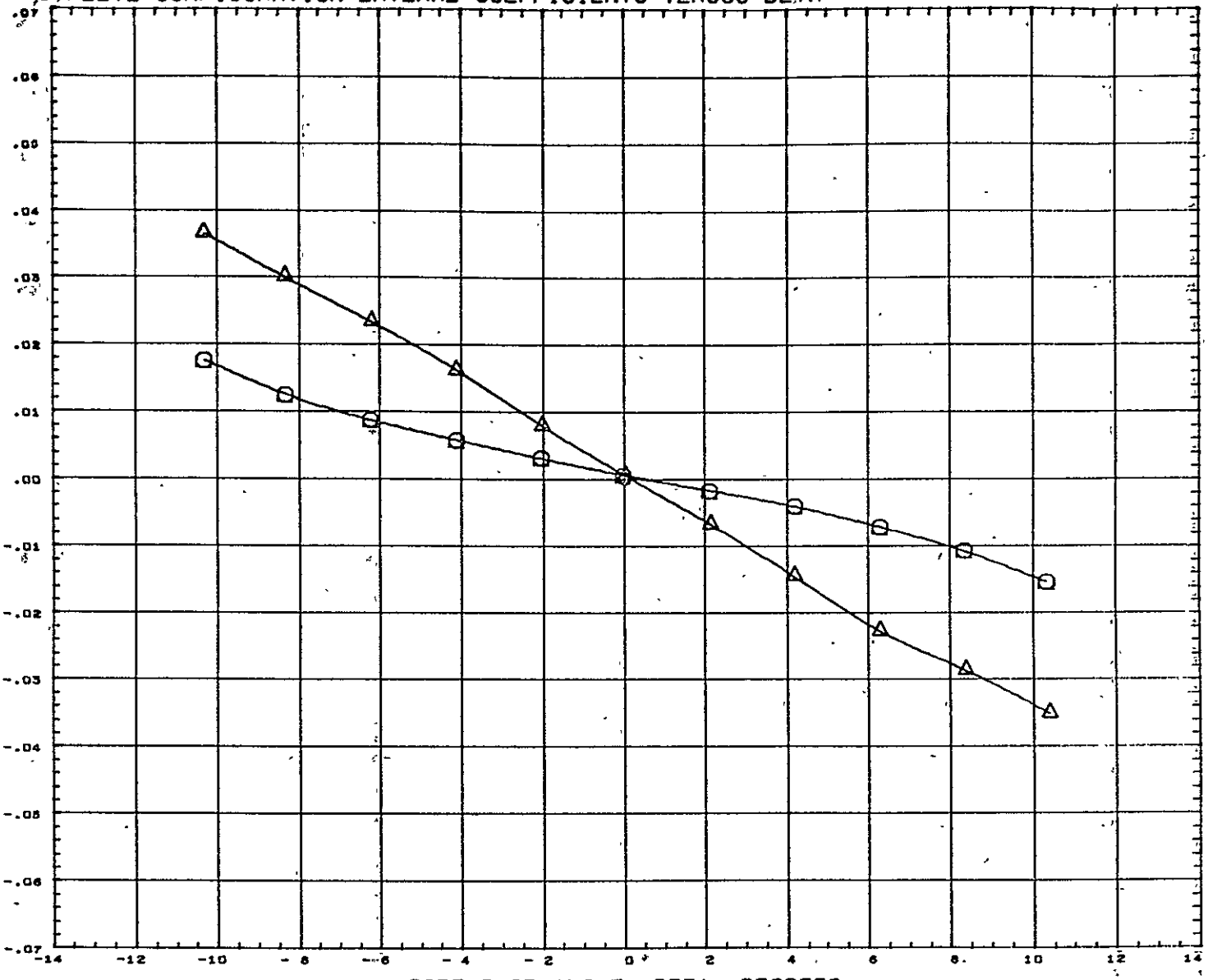
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD	ELEVON	RUDDER
0.000	0.000	0.000	
15.000	0.000	0.000	0.000
15.000	0.000	0.000	
35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.461

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

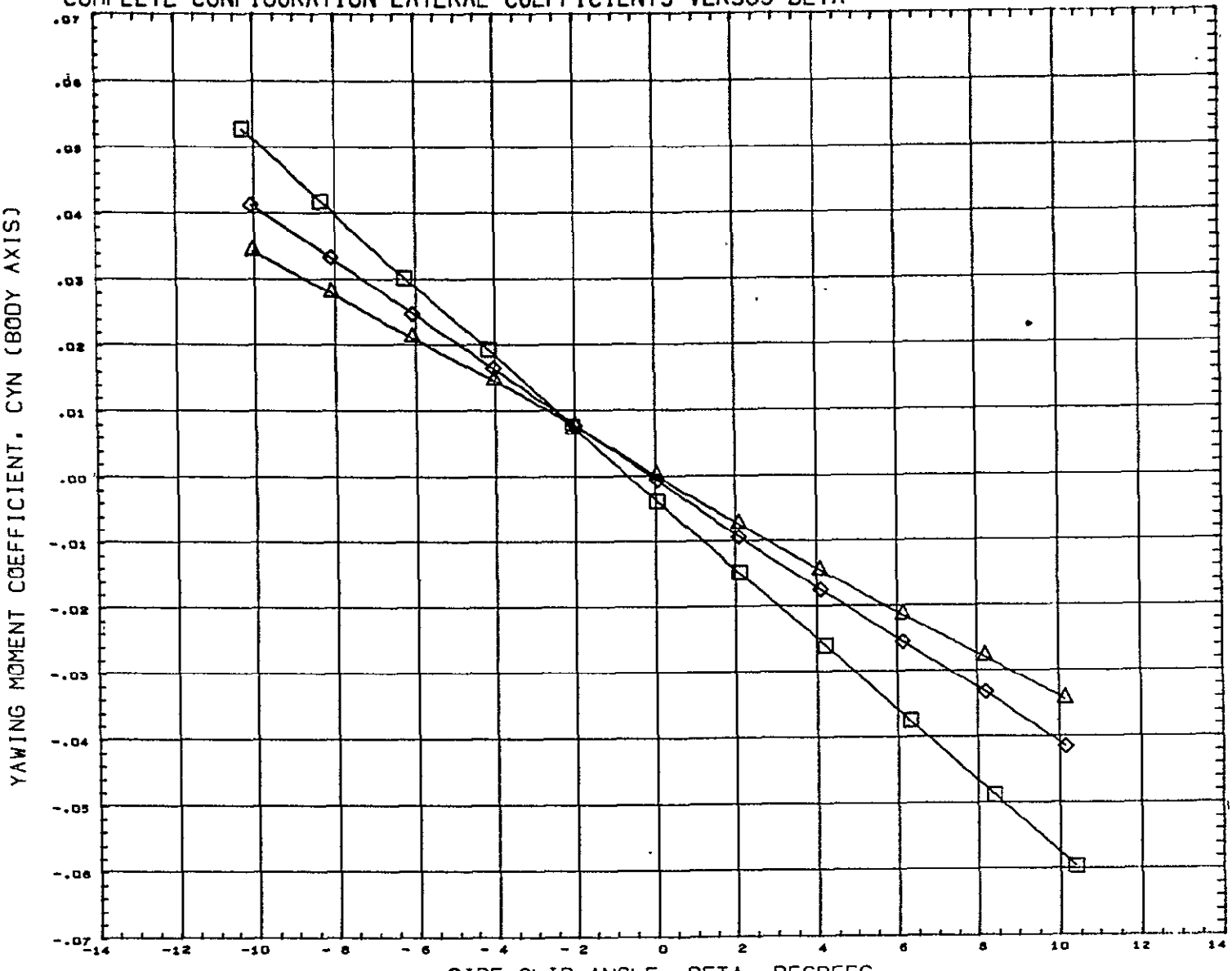


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F26Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F26Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.956

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

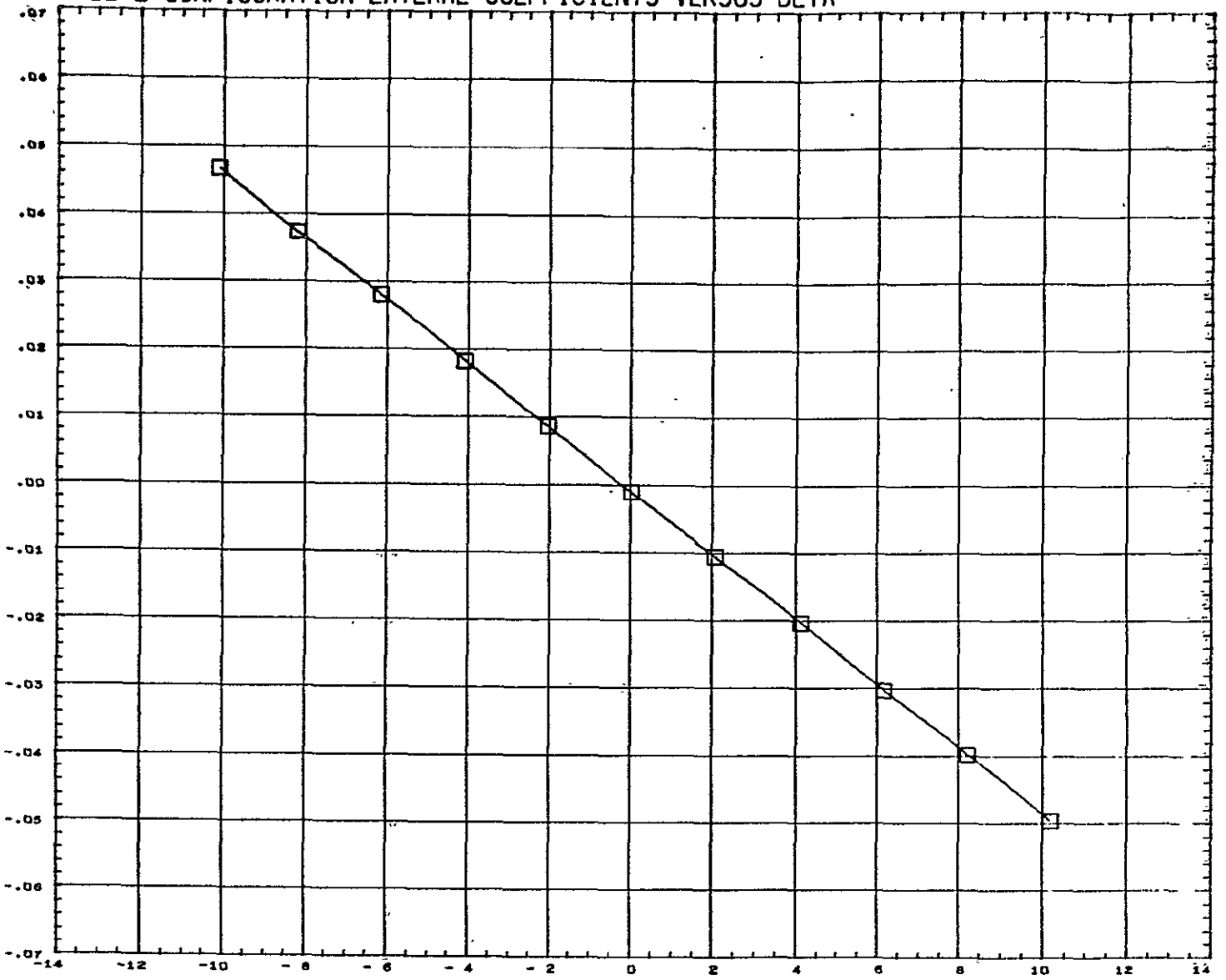


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	MSFC481 GD/C(BOOSTER)B19W14C4A	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA



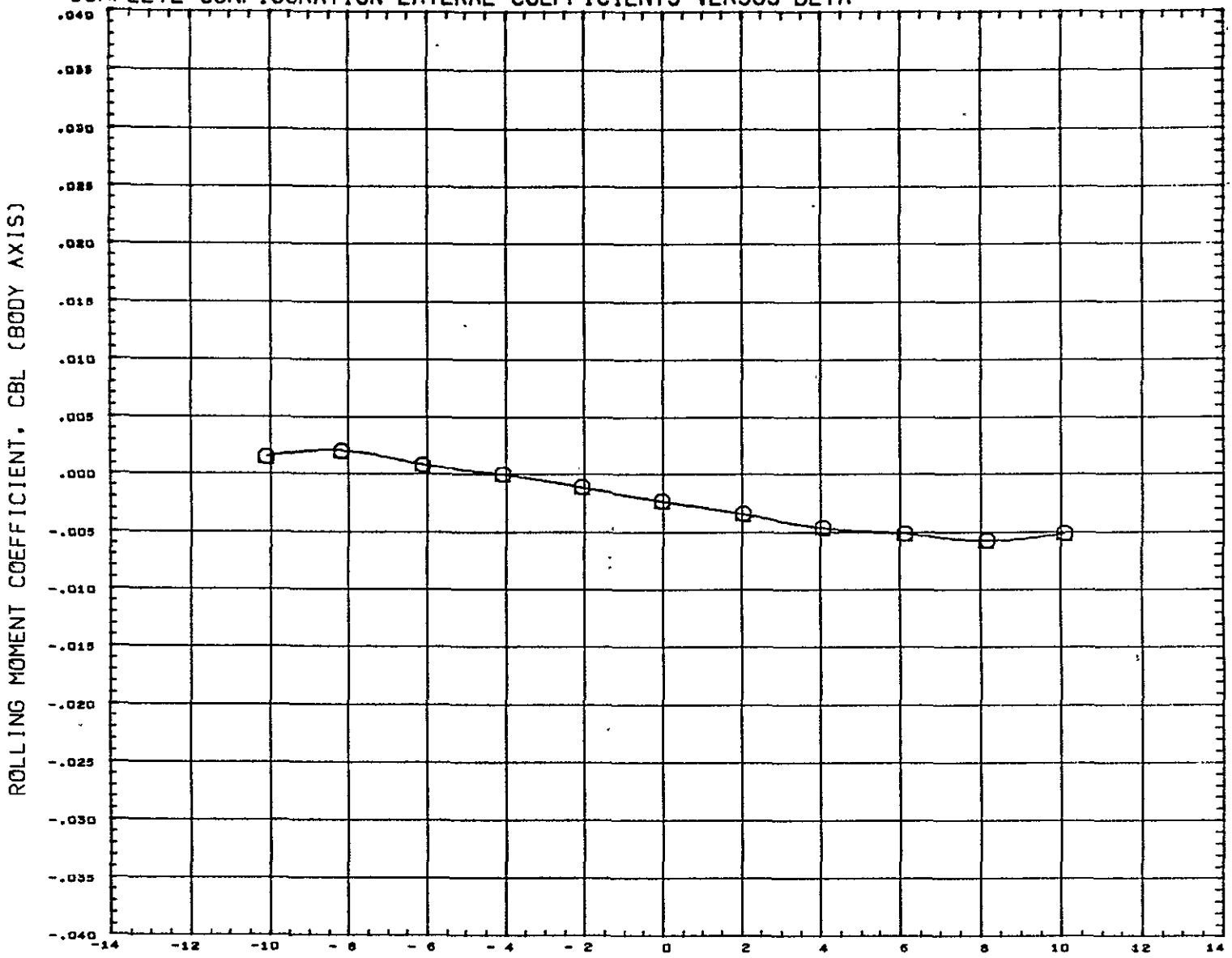
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y21)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y31)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y41)	□	MSFC481 GD/C(BOOSTER)B19W14C4A

MACH 4.959

ALPHA	CANARD	ELEVON	RUDDER
0.000	0.000	0.000	
15.000	0.000	0.000	0.000
15.000	0.000	0.000	
35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

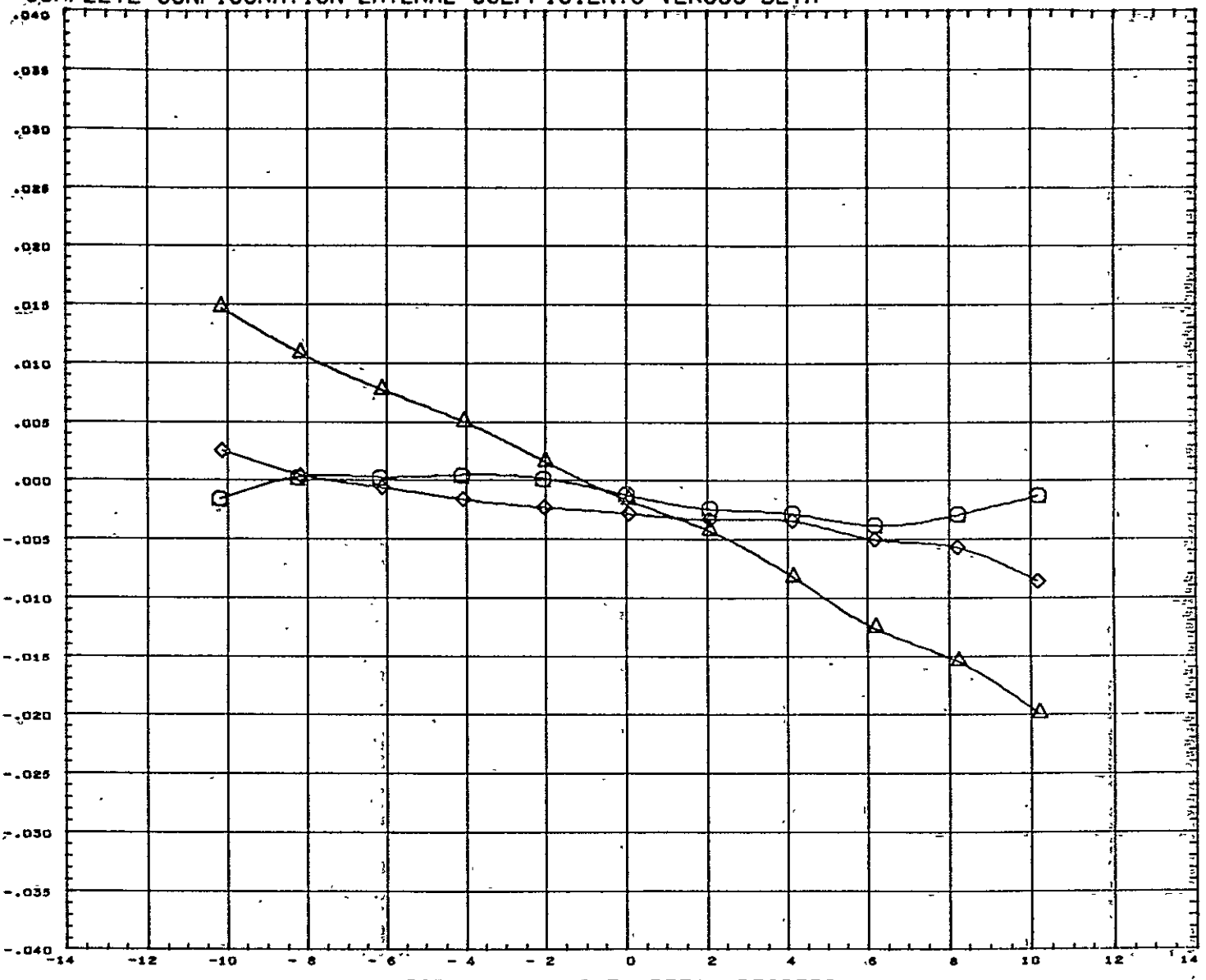


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000
(F28Y31)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	
(F28Y41)		DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

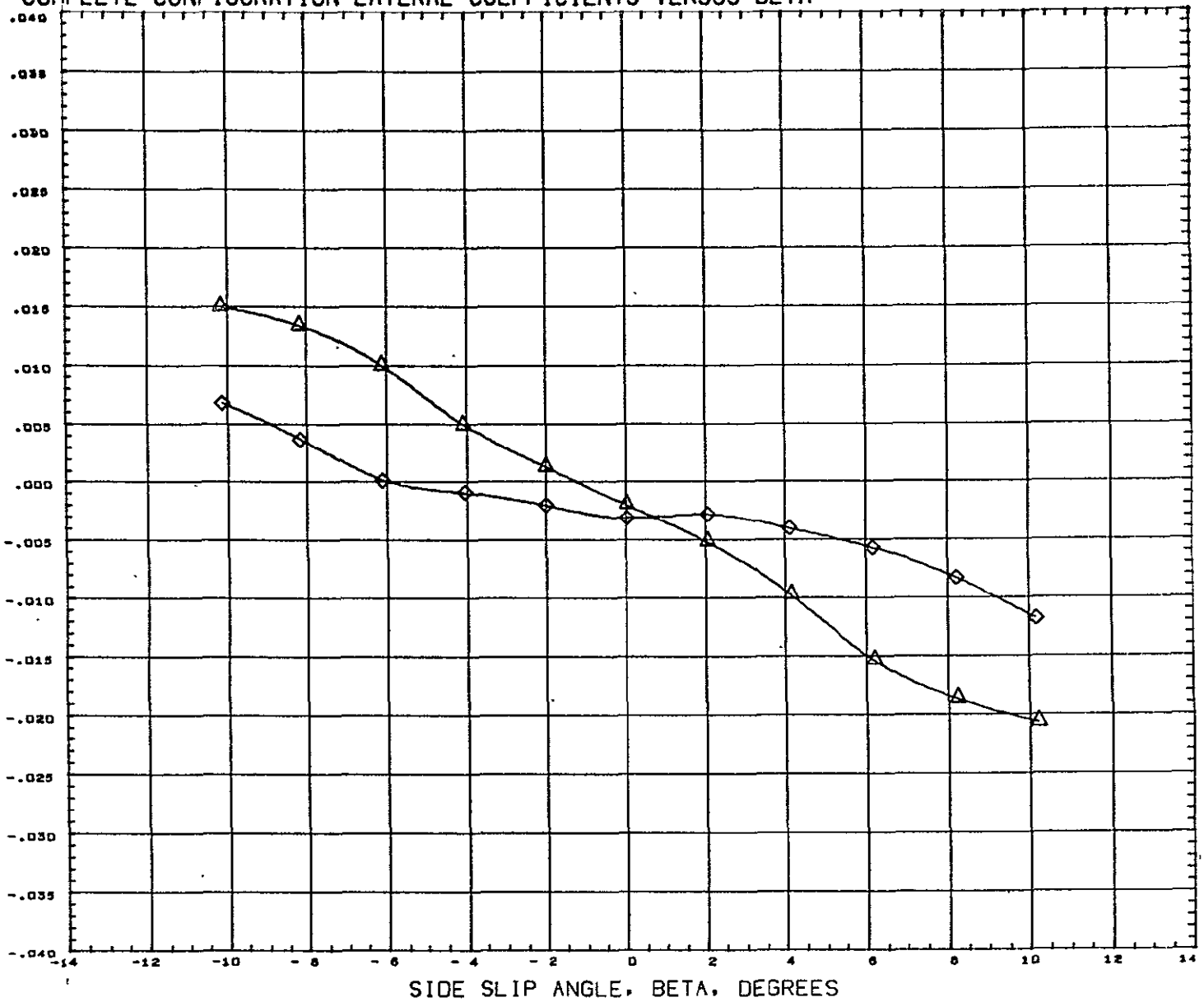


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.904

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

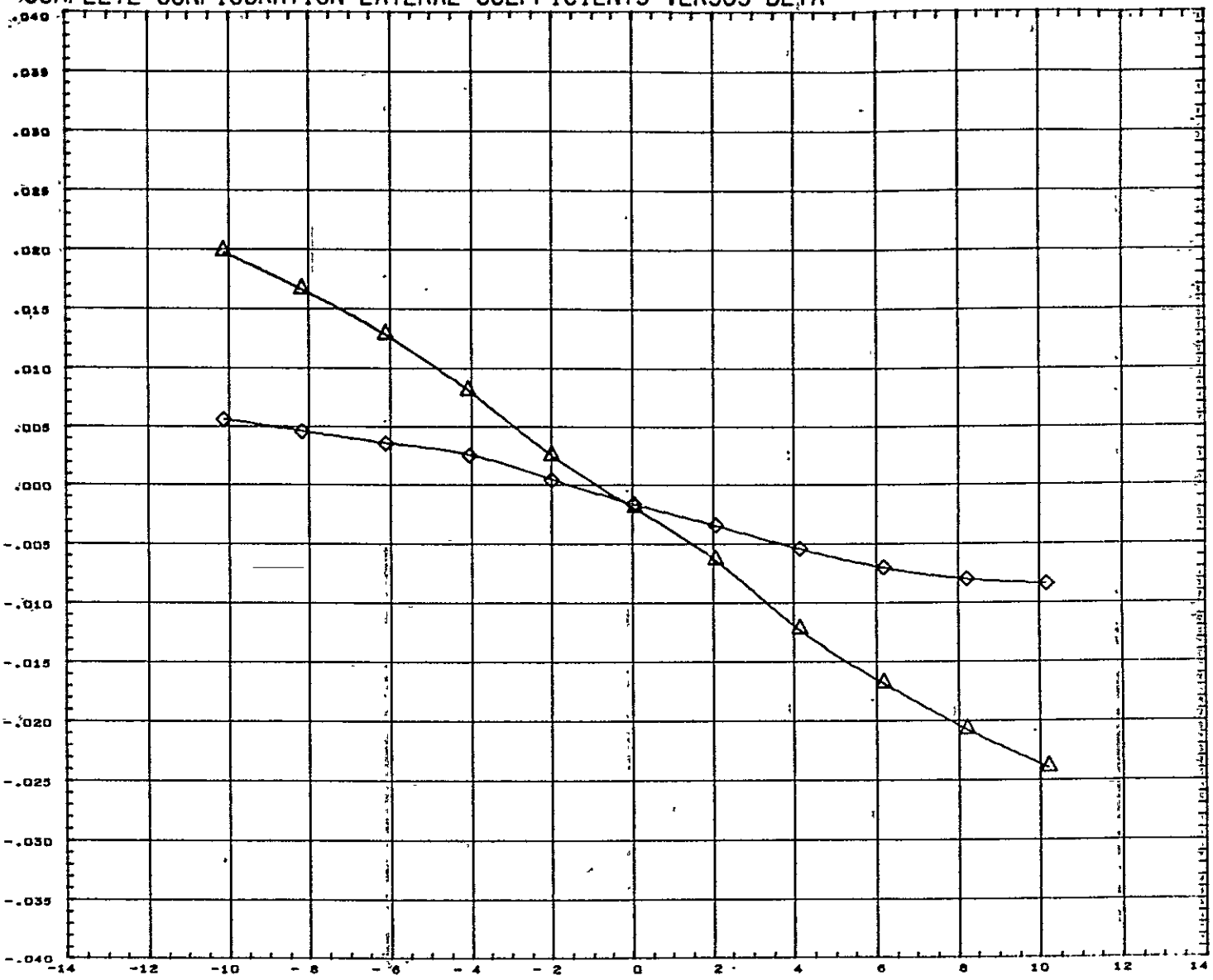


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.953

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

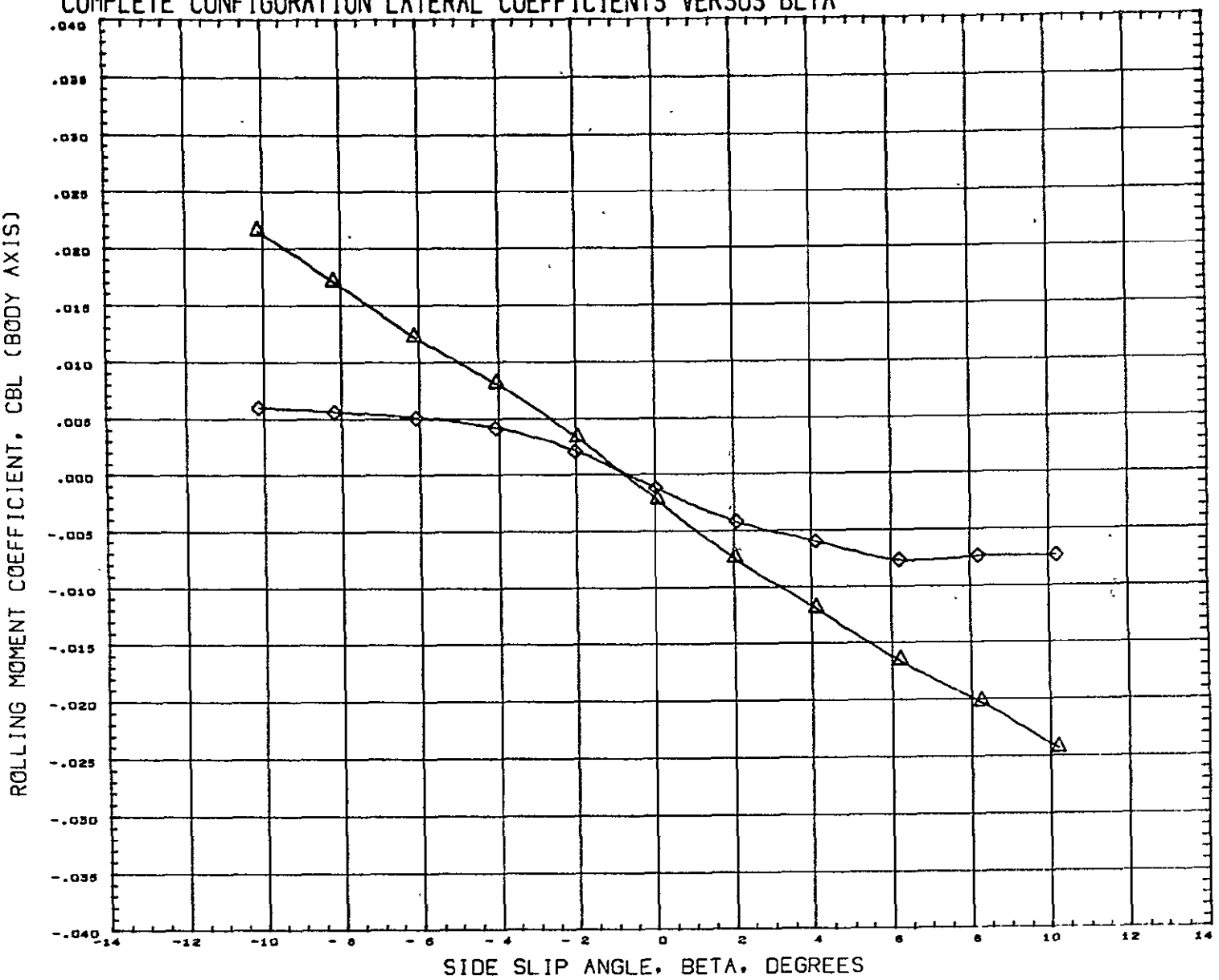


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y53)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F26Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y31)		MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F26Y41)		DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

MACH 1.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

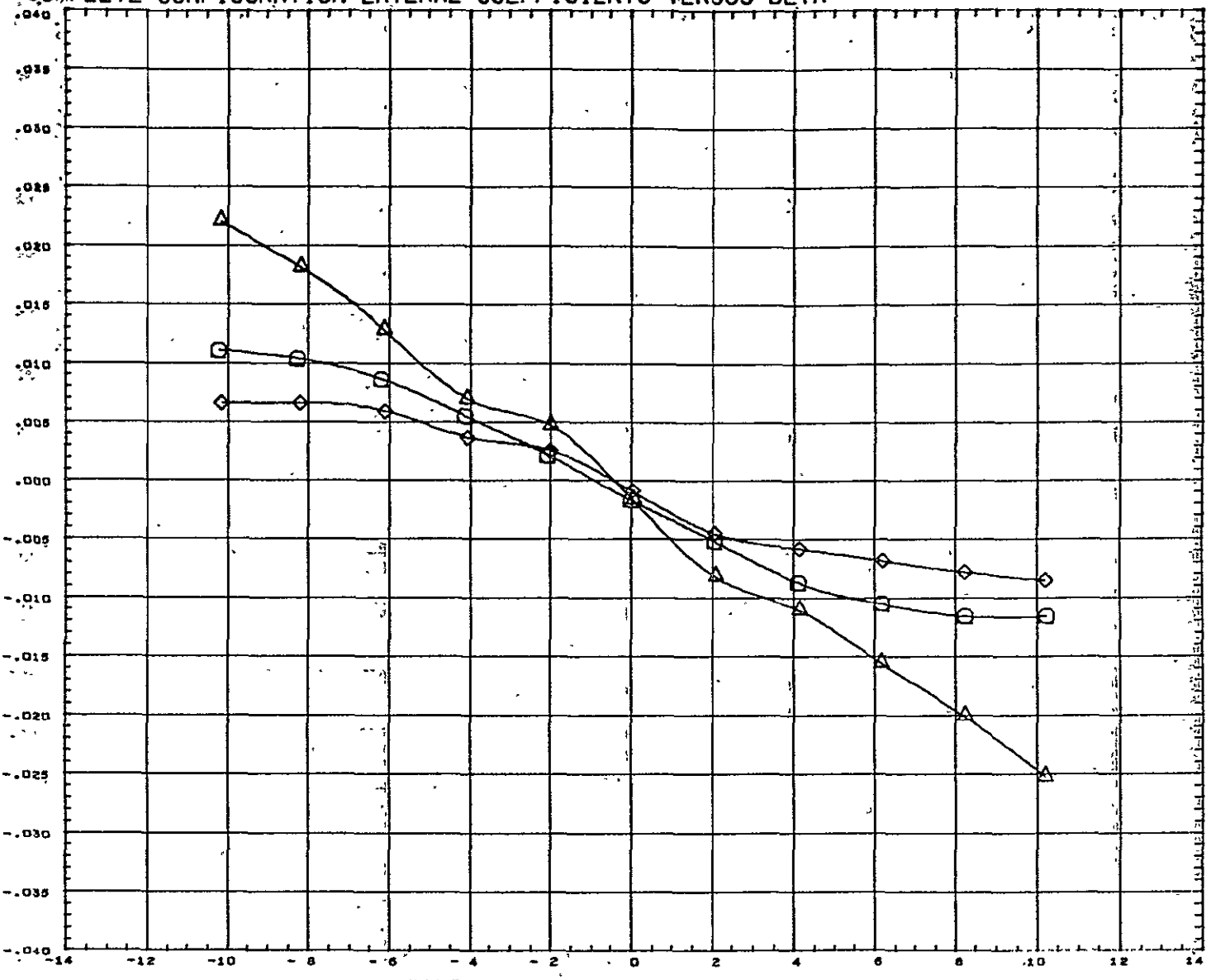


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA



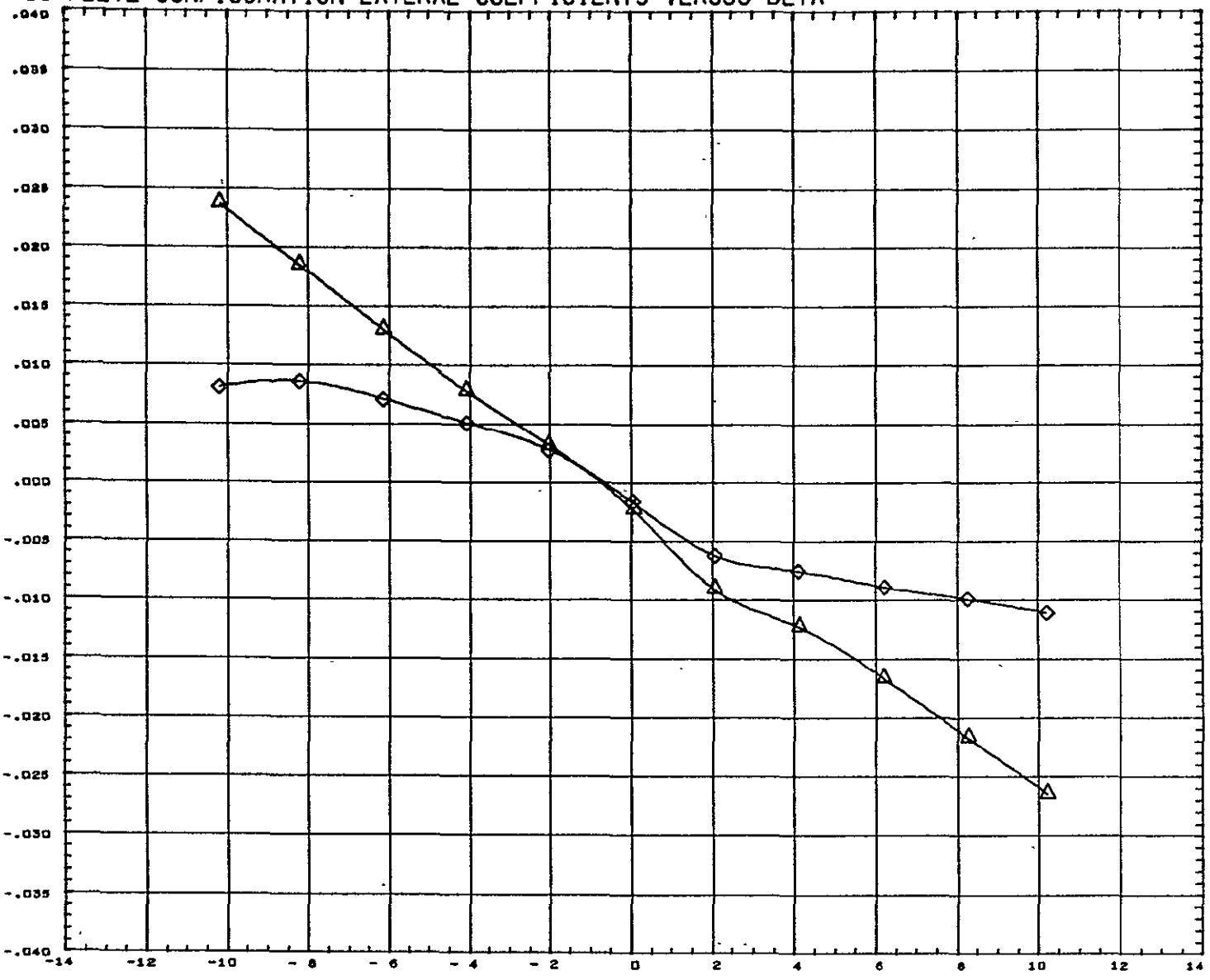
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F26Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7
(F26Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(F26Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A
(F26Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD	ELEVON	RUDDER
0.000	0.000	0.000	
15.000	0.000	0.000	0.000
15.000	0.000	0.000	
35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0:00:35	

MACH 1.101

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

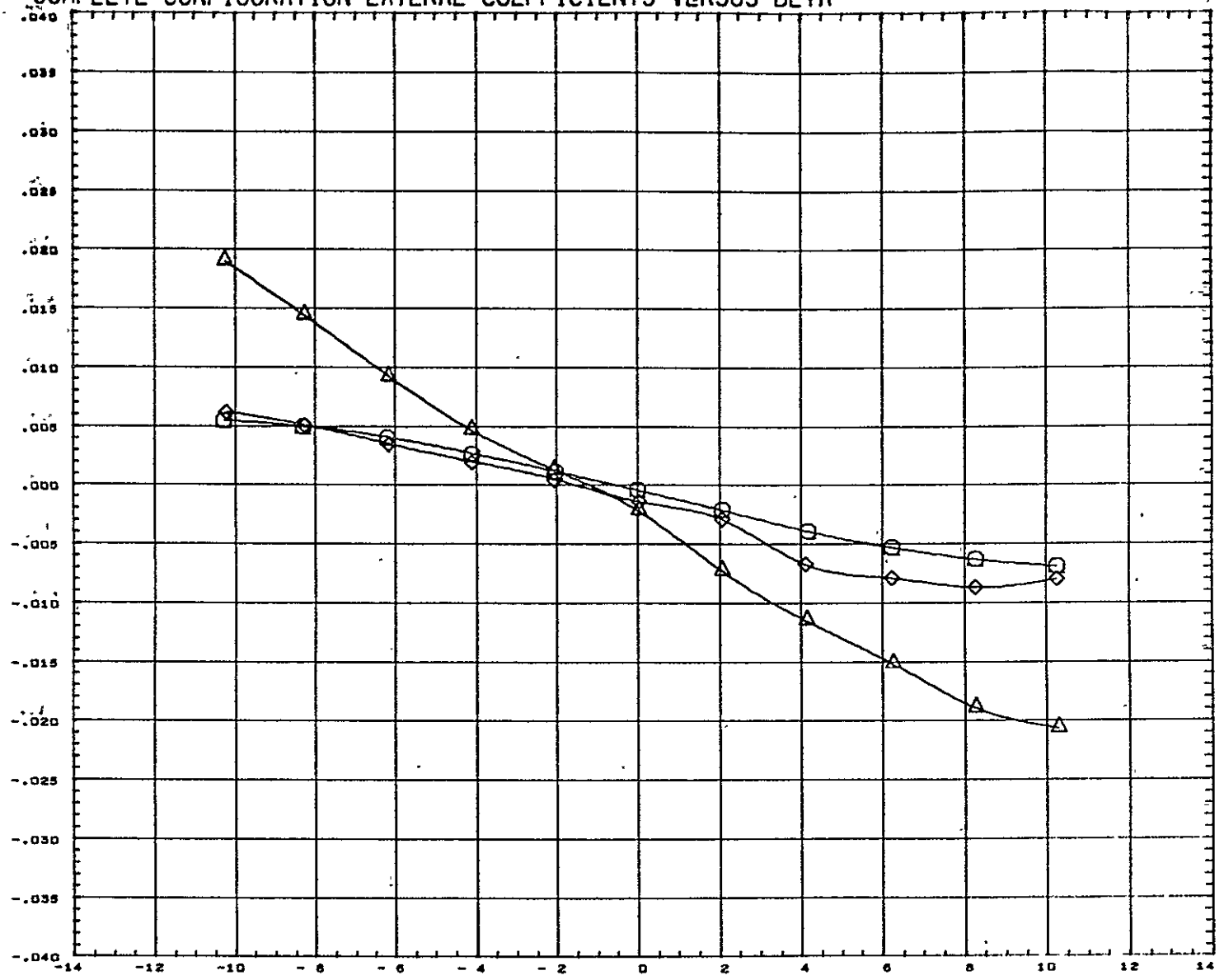


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XHRP	6.7100	IN.
YHRP	0.0000	IN.
ZHRP	0.0000	IN.
SCALE	0.0035	

MACH 1.202

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

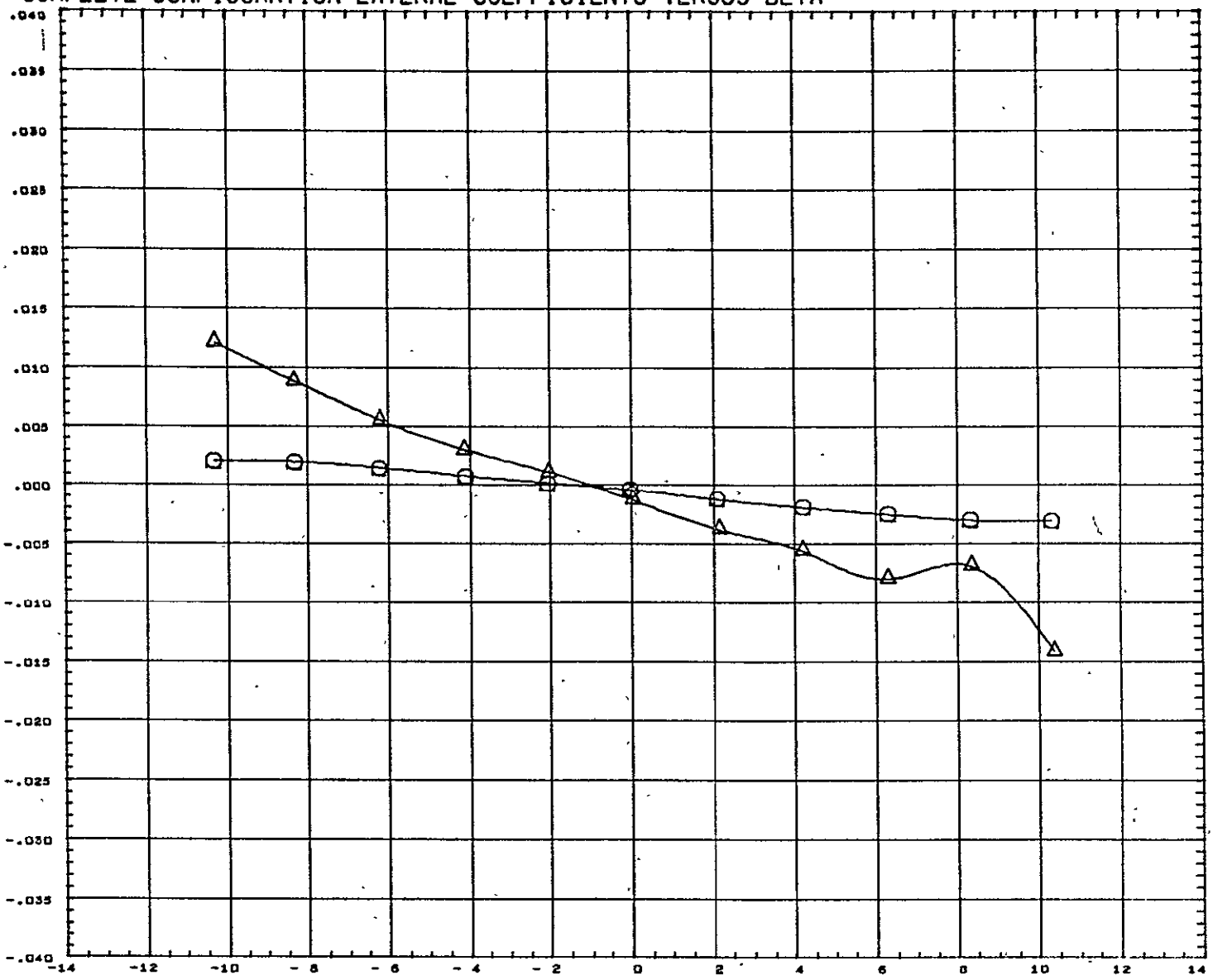


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 461 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC461 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC461 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

MACH 1.461

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

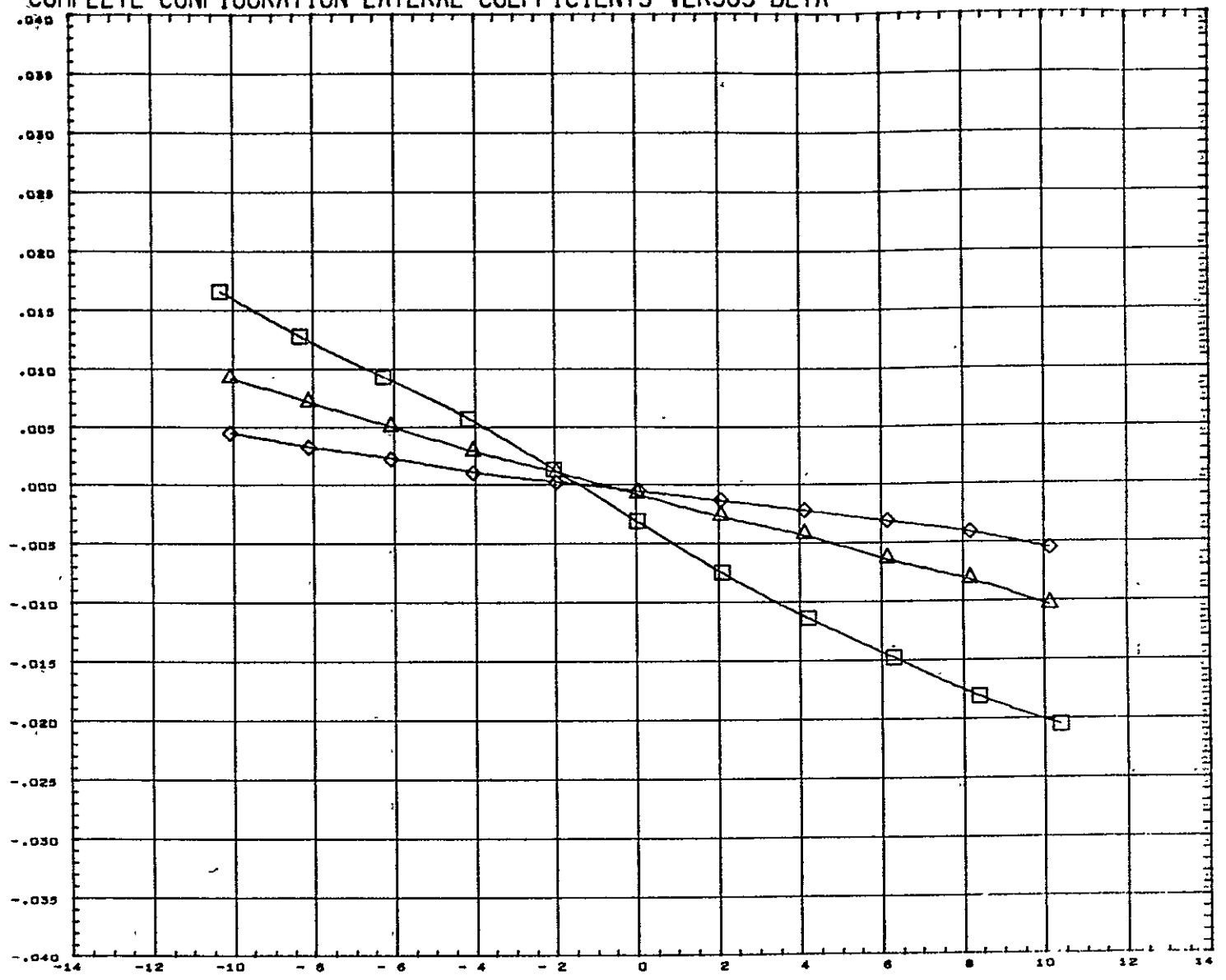


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

MACH 1.956

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0390	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

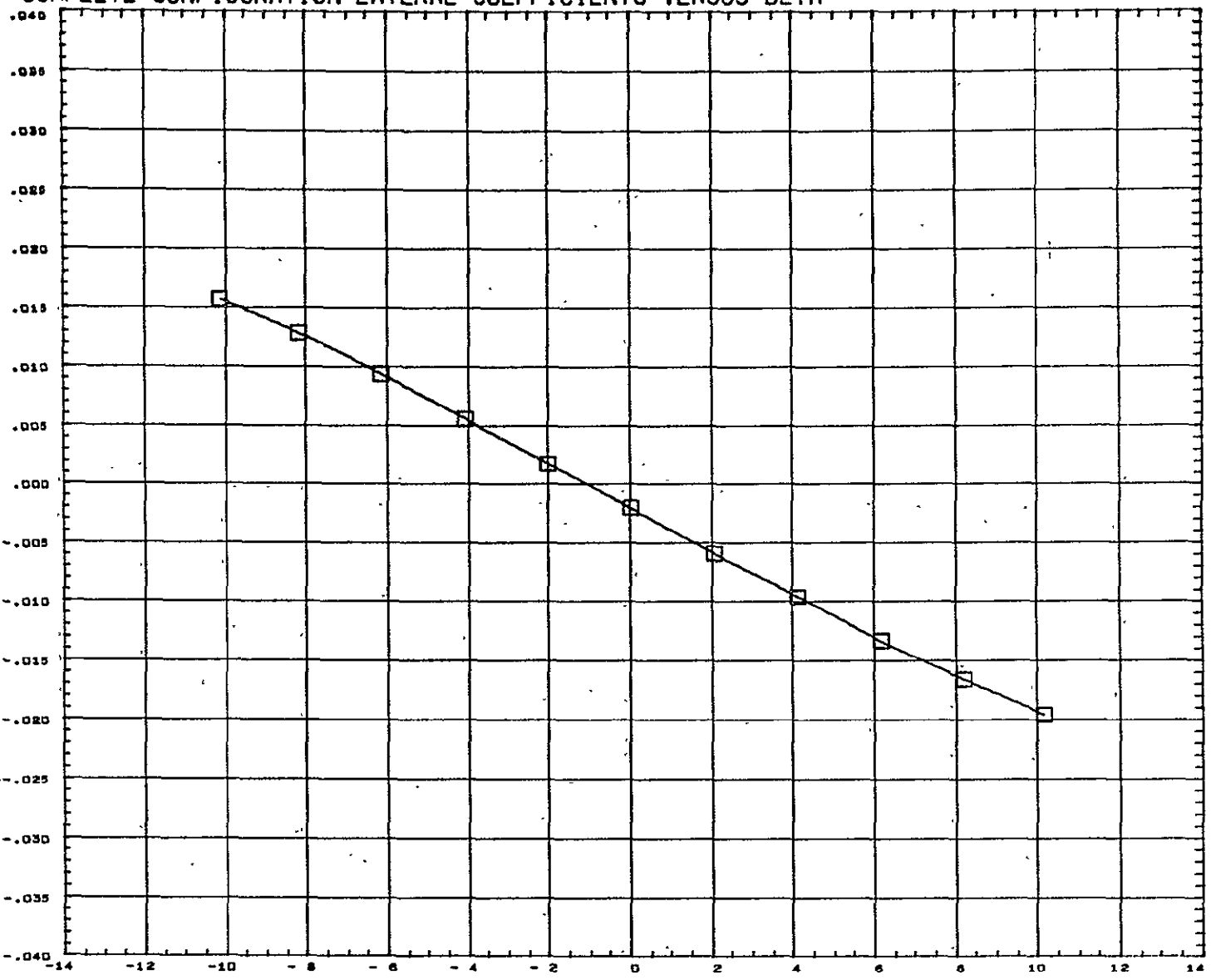


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	MSFC481 GD/C(BOOSTER)B19W14C4A	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

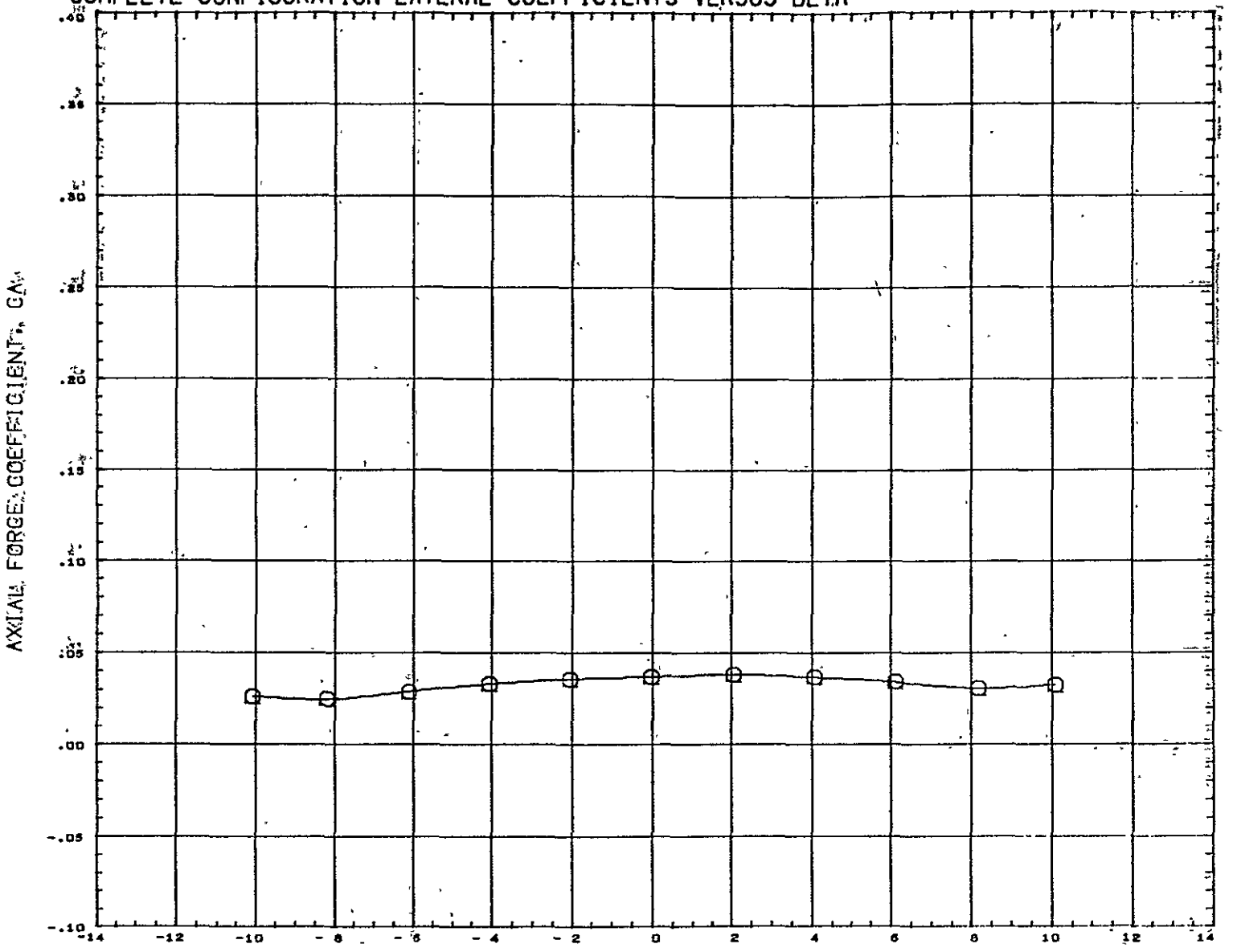


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000
(F28Y31)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	
(F28Y41)		MSFC481 GD/C(BOOSTER)B19W14C4A	35.000	0.000	0.000	

MACH 4.959

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

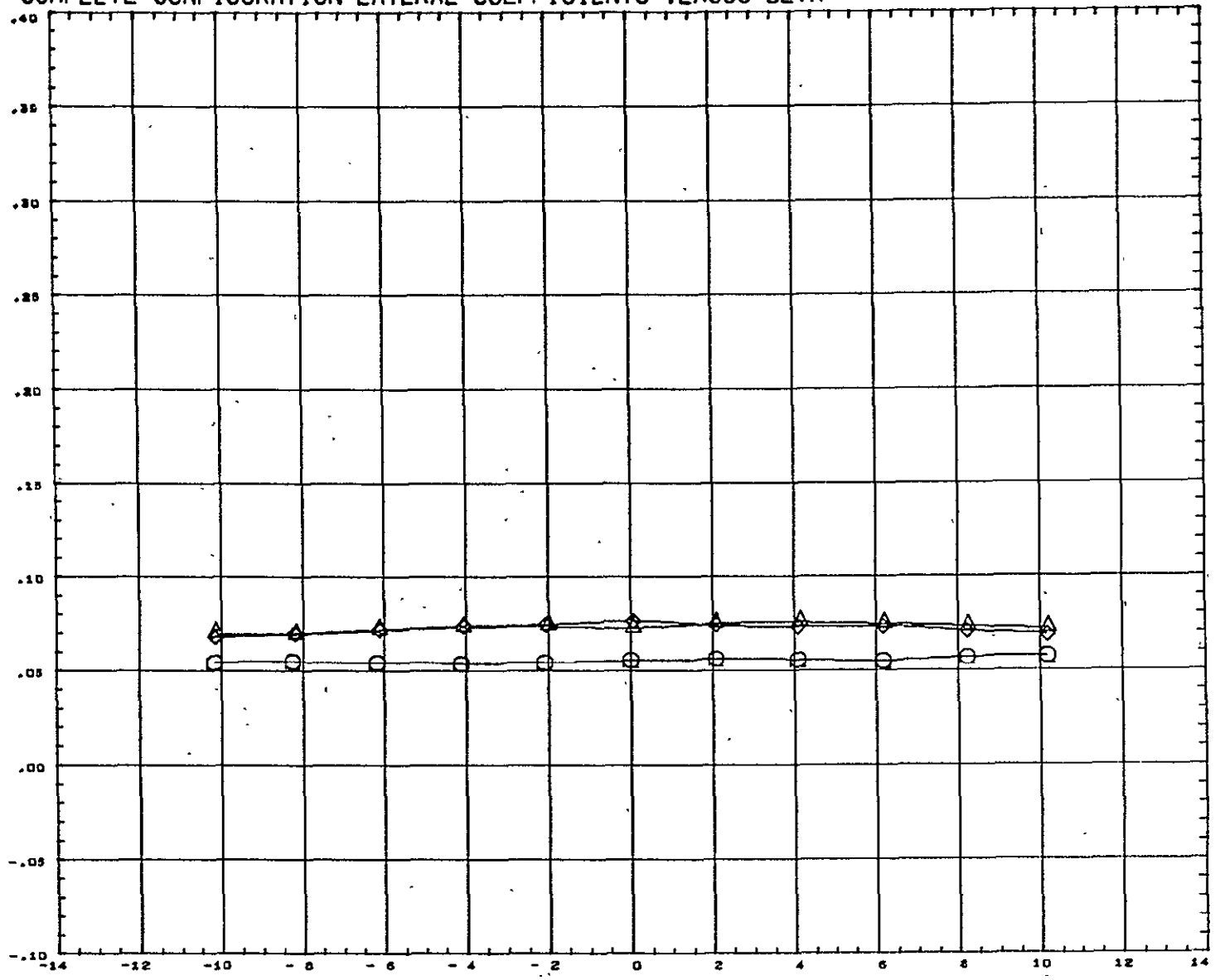


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000
(F28Y31)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

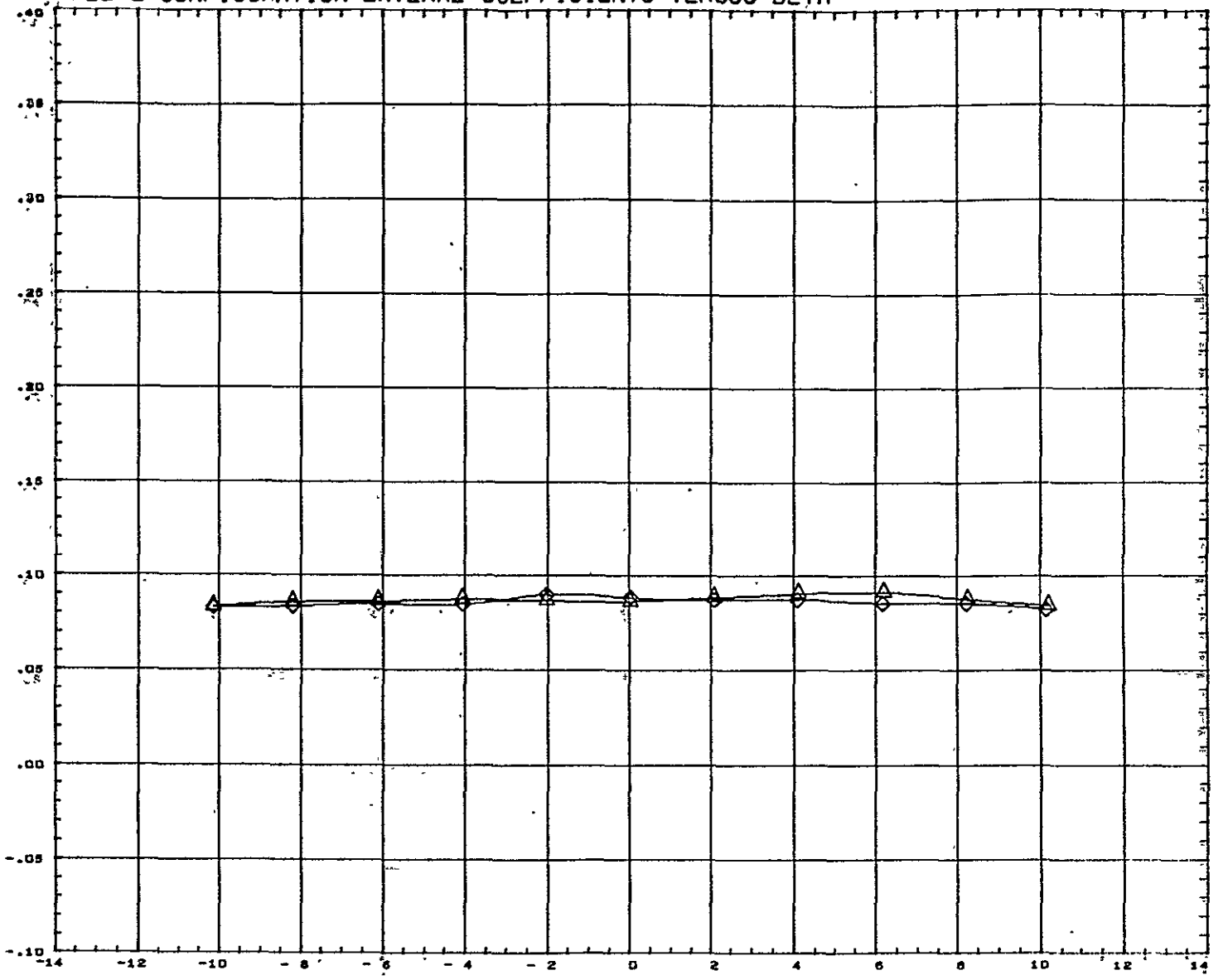


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	-0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.904

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA



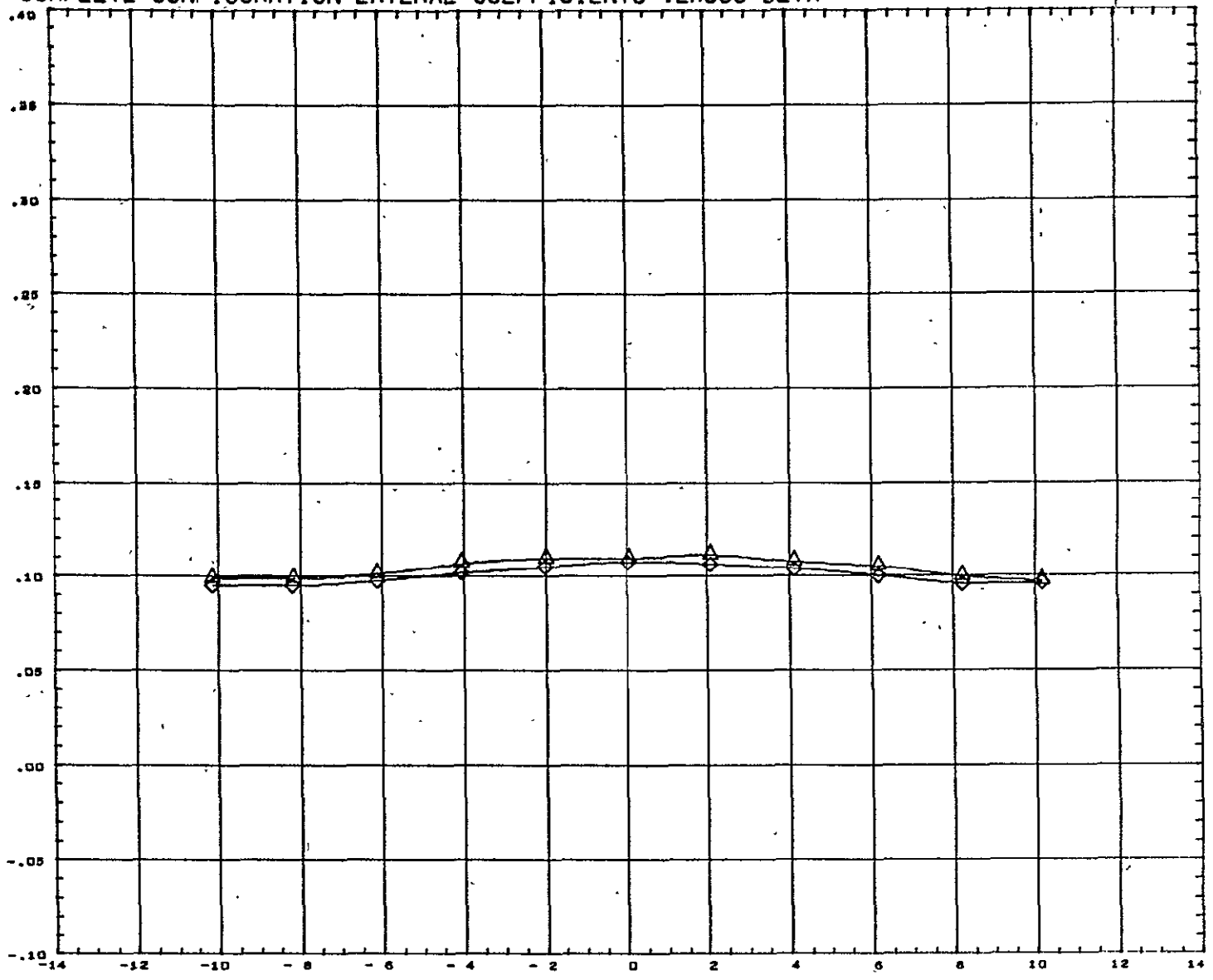
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 0.955

ALPHA	CANARD	ELEVON	RUDDER
0.000	0.000	0.000	
15.000	0.000	0.000	0.000
15.000	0.000	0.000	
35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

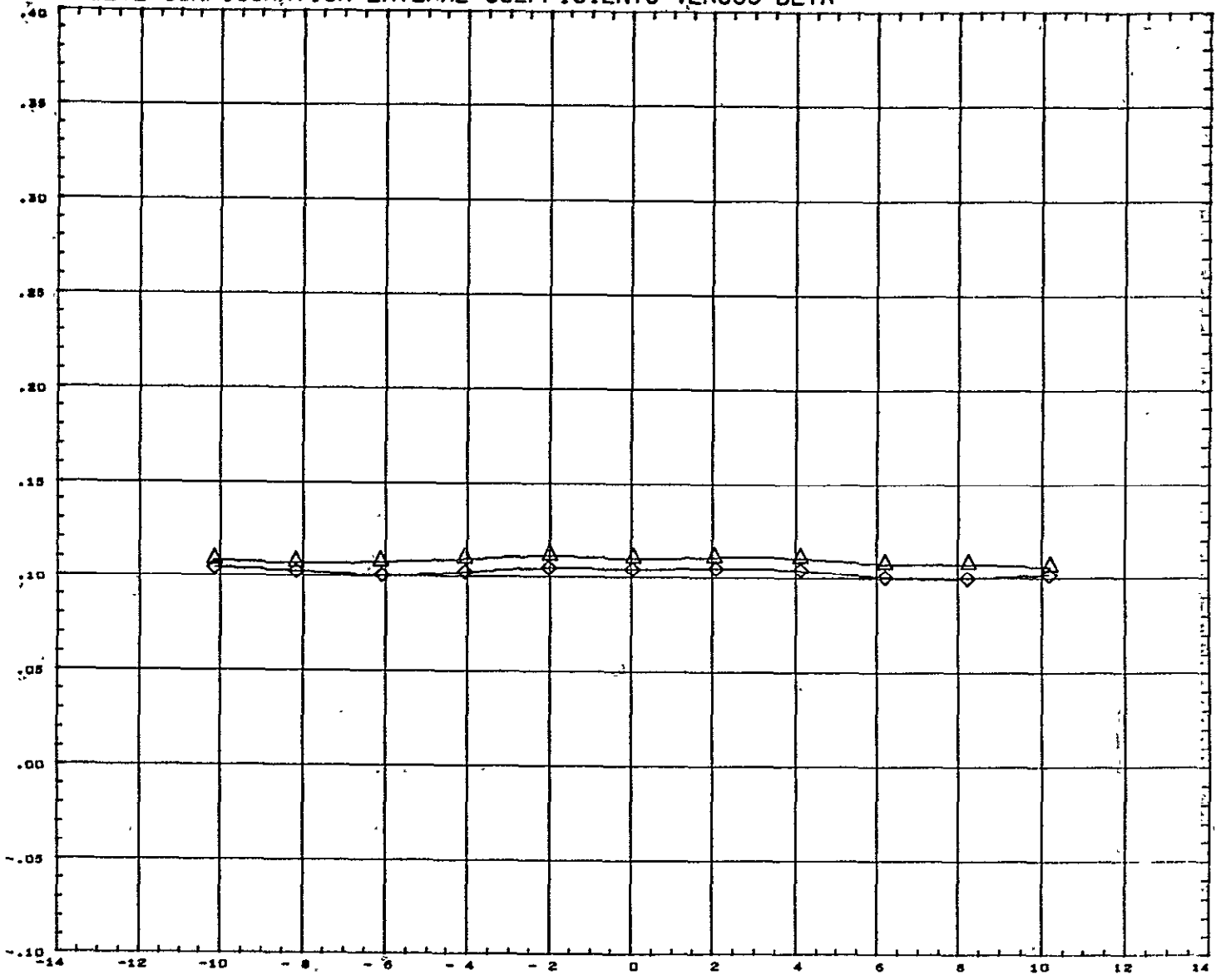


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y33)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC461 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC461 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

MACH 1.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA



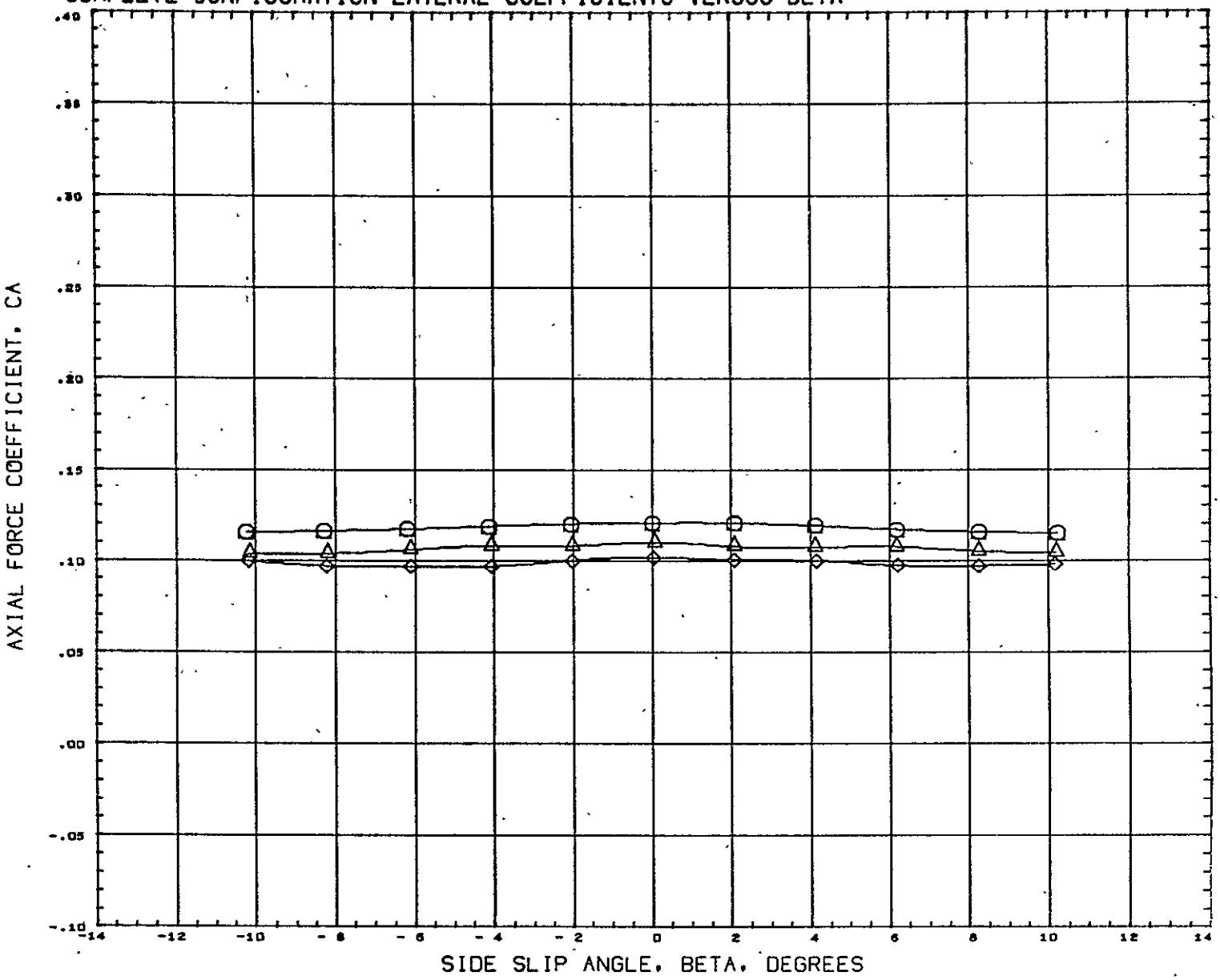
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD	ELEVON	RUDDER
0.000	0.000	0.000	
15.000	0.000	0.000	0.000
15.000	0.000	0.000	
35.000	0.000	0.000.	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

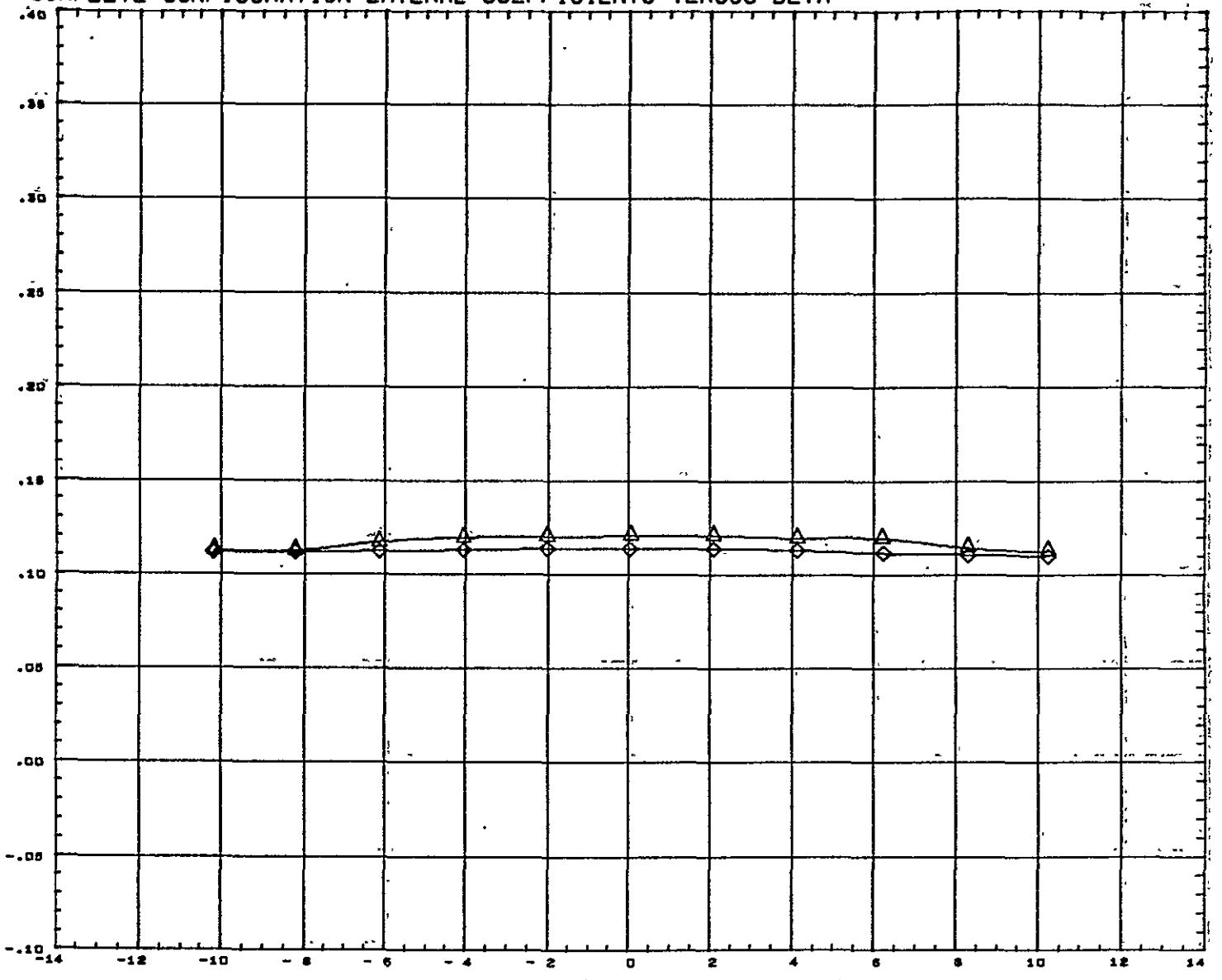


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.101

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA



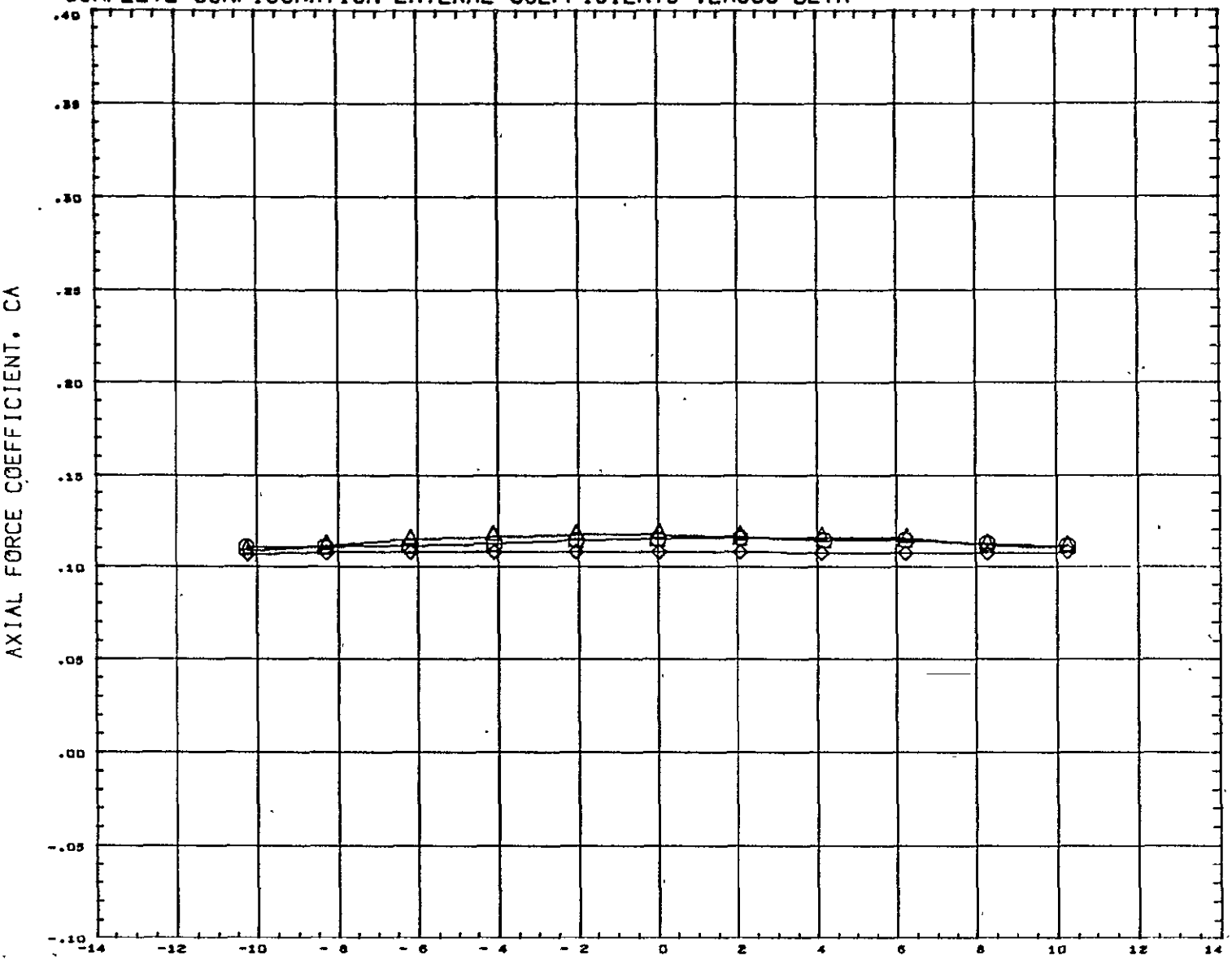
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 1.202

ALPHA	CANARD	ELEVON	RUDDER
0.000	0.000	0.000	
15.000	0.000	0.000	0.000
15.000	0.000	0.000	
35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

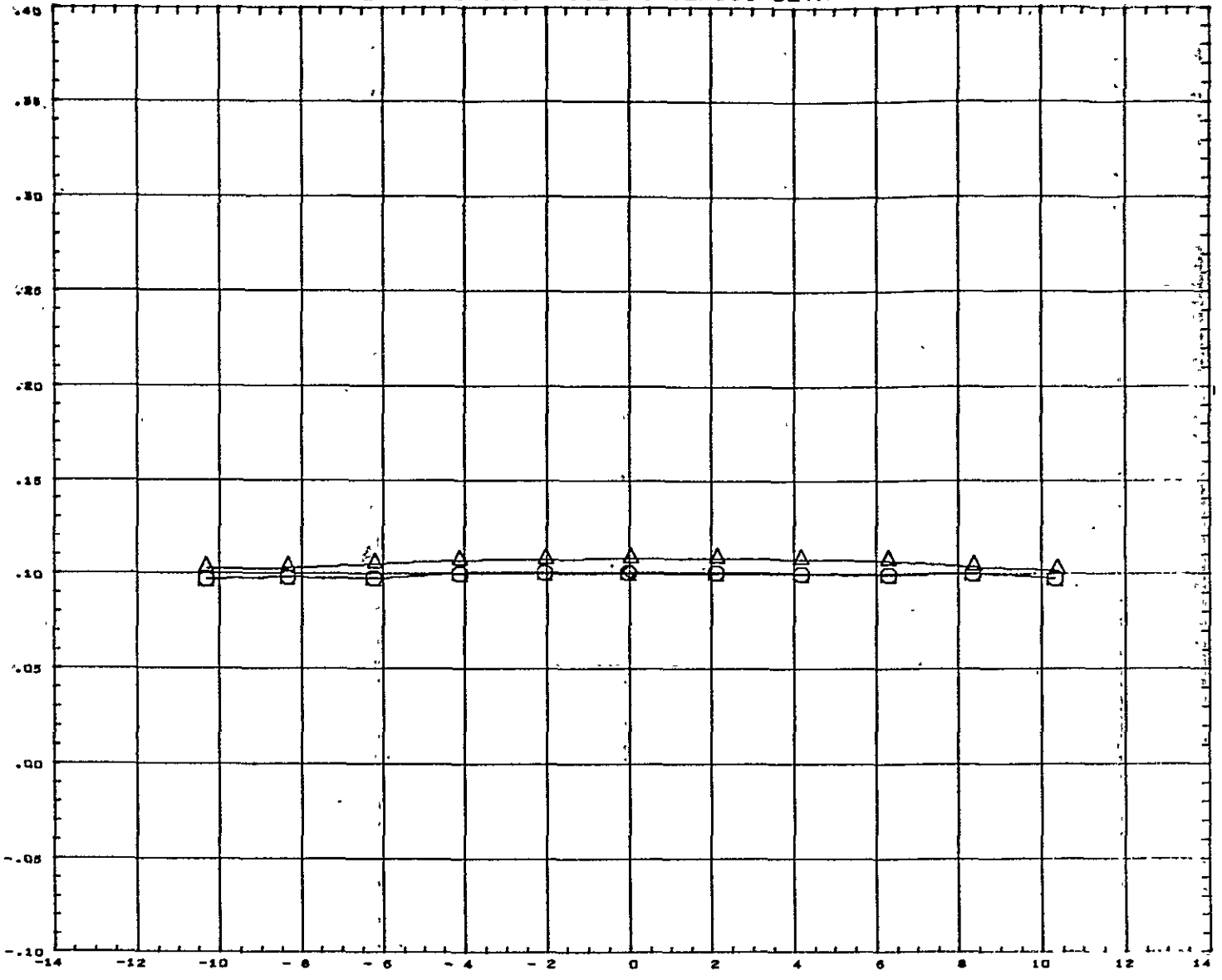


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.461

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

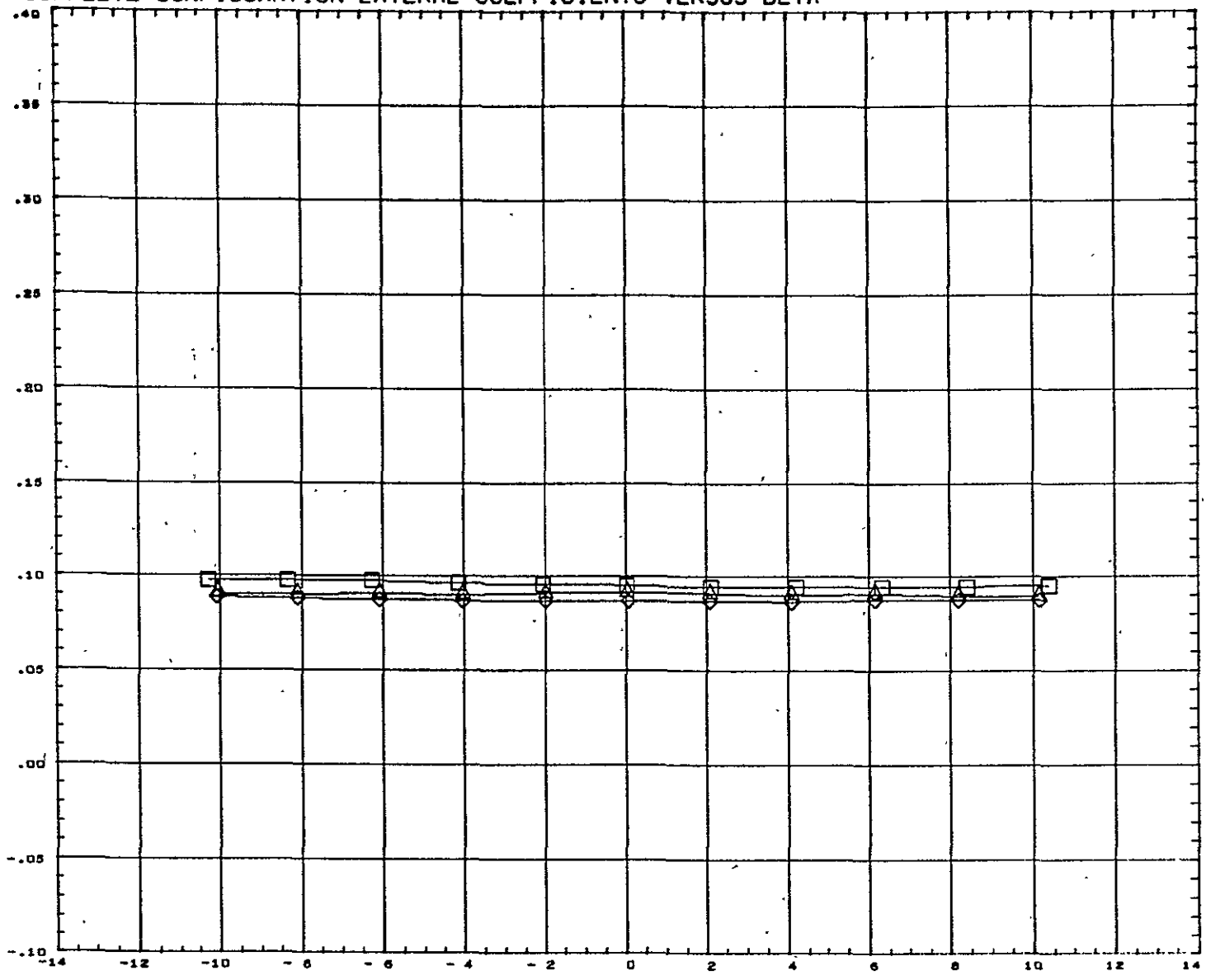


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.956

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

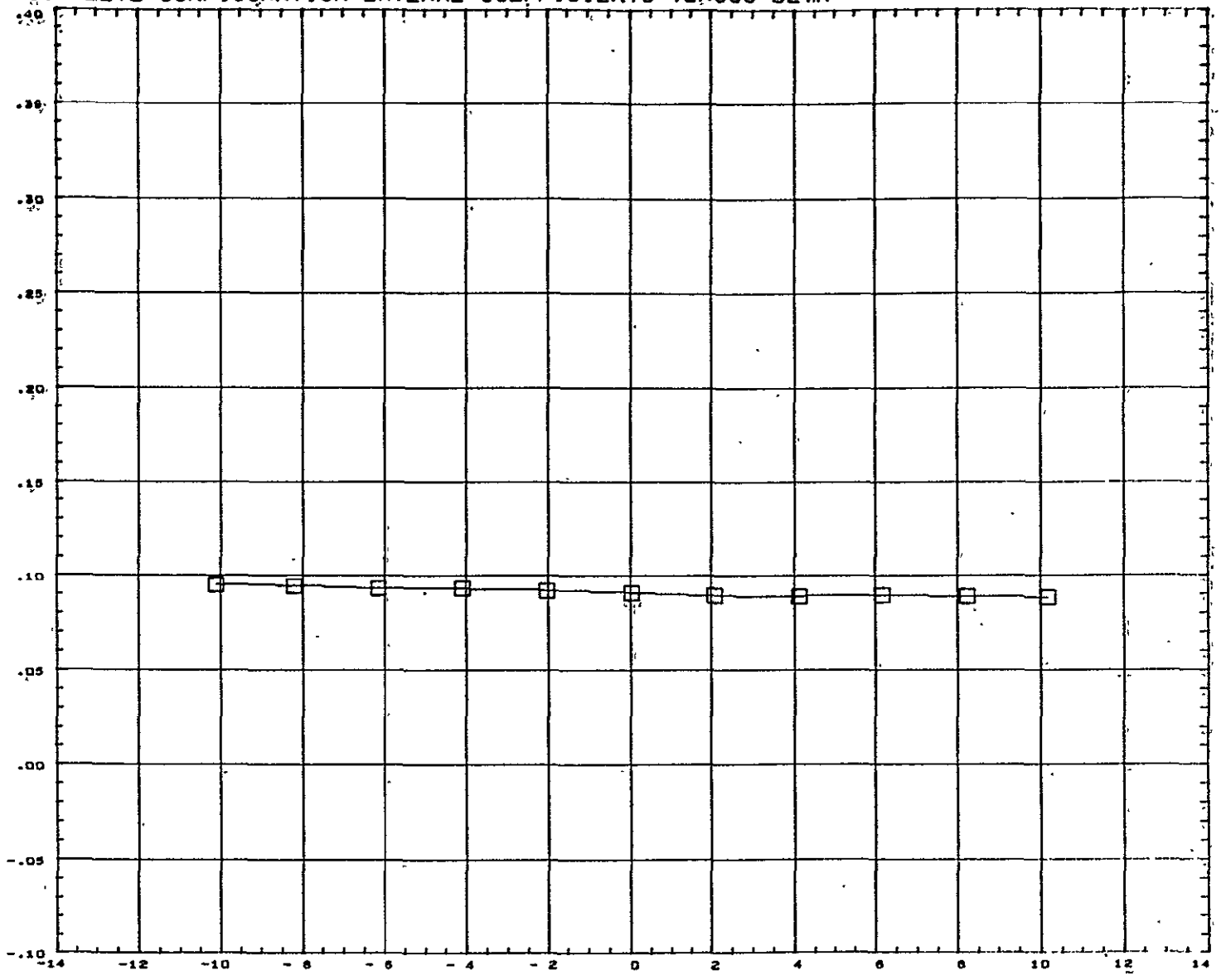


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	MSFC481 GD/C(BOOSTER)B19W14C4A	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XHRP	6.7100	IN.
YHRP	0.0000	IN.
ZHRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

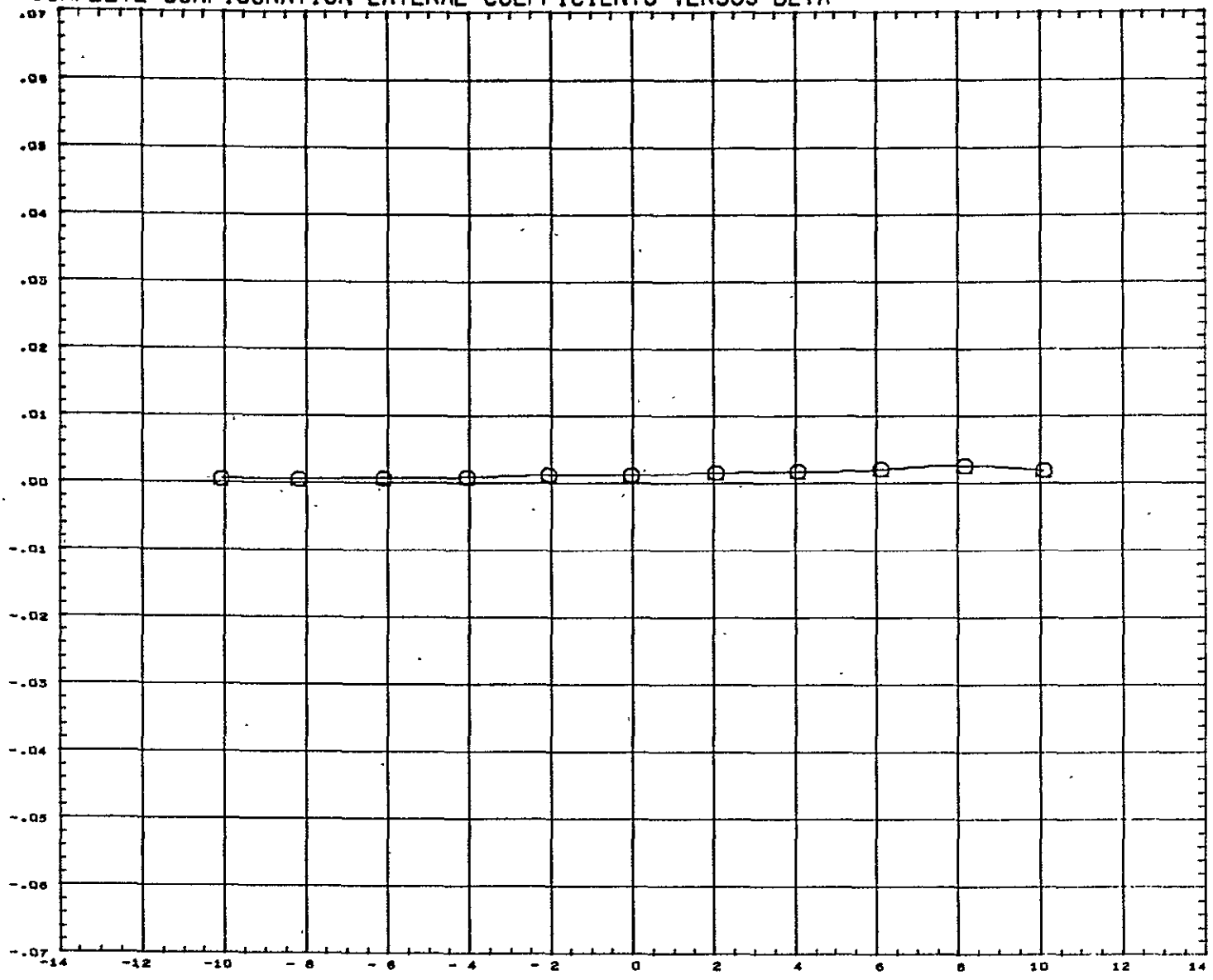


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000
(F28Y31)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	
(F28Y41)	□	MSFC481 GD/C(BOOSTER)B19W14C4A	35.000	0.000	0.000	

MACH 4.959

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

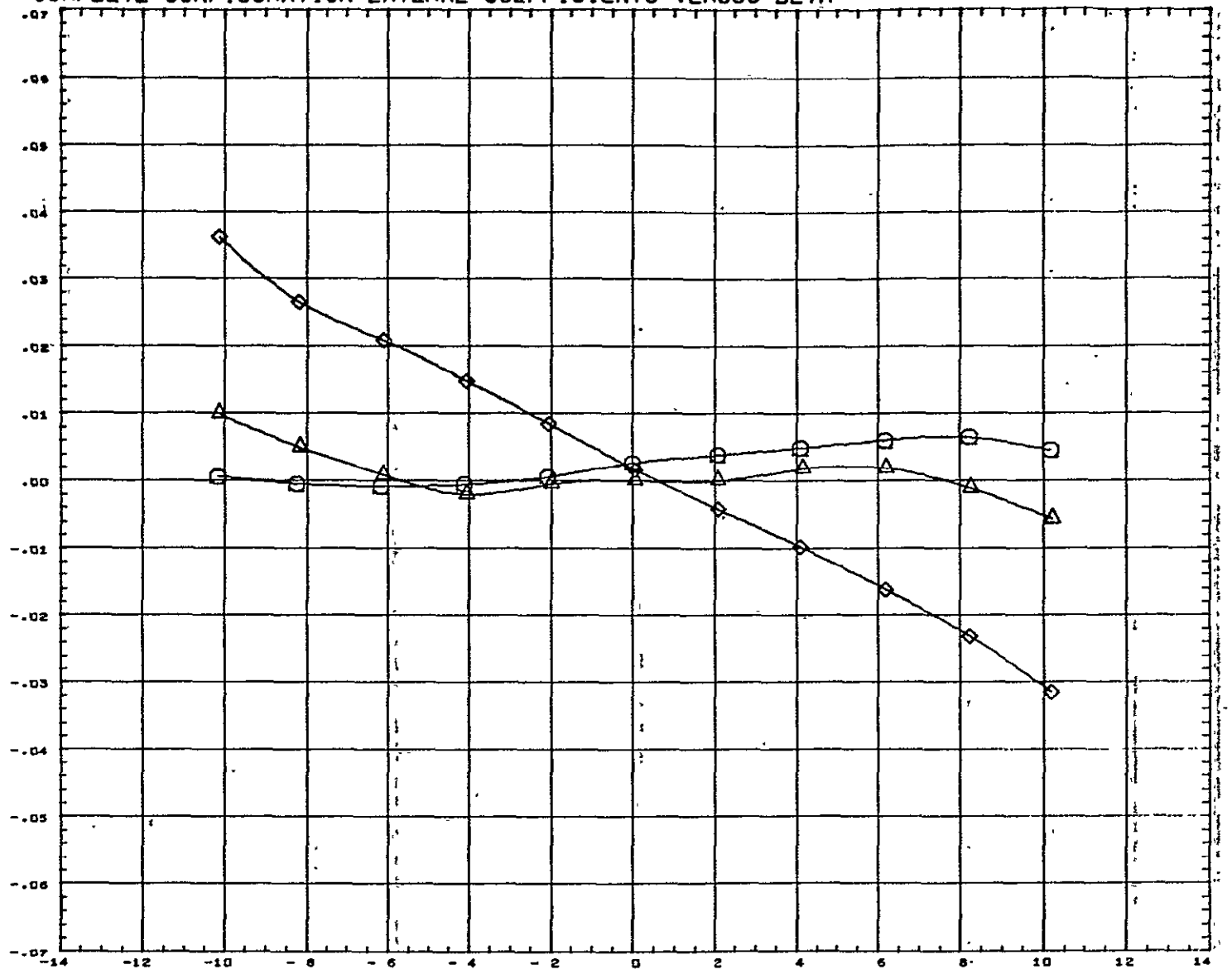


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000
(F28Y31)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

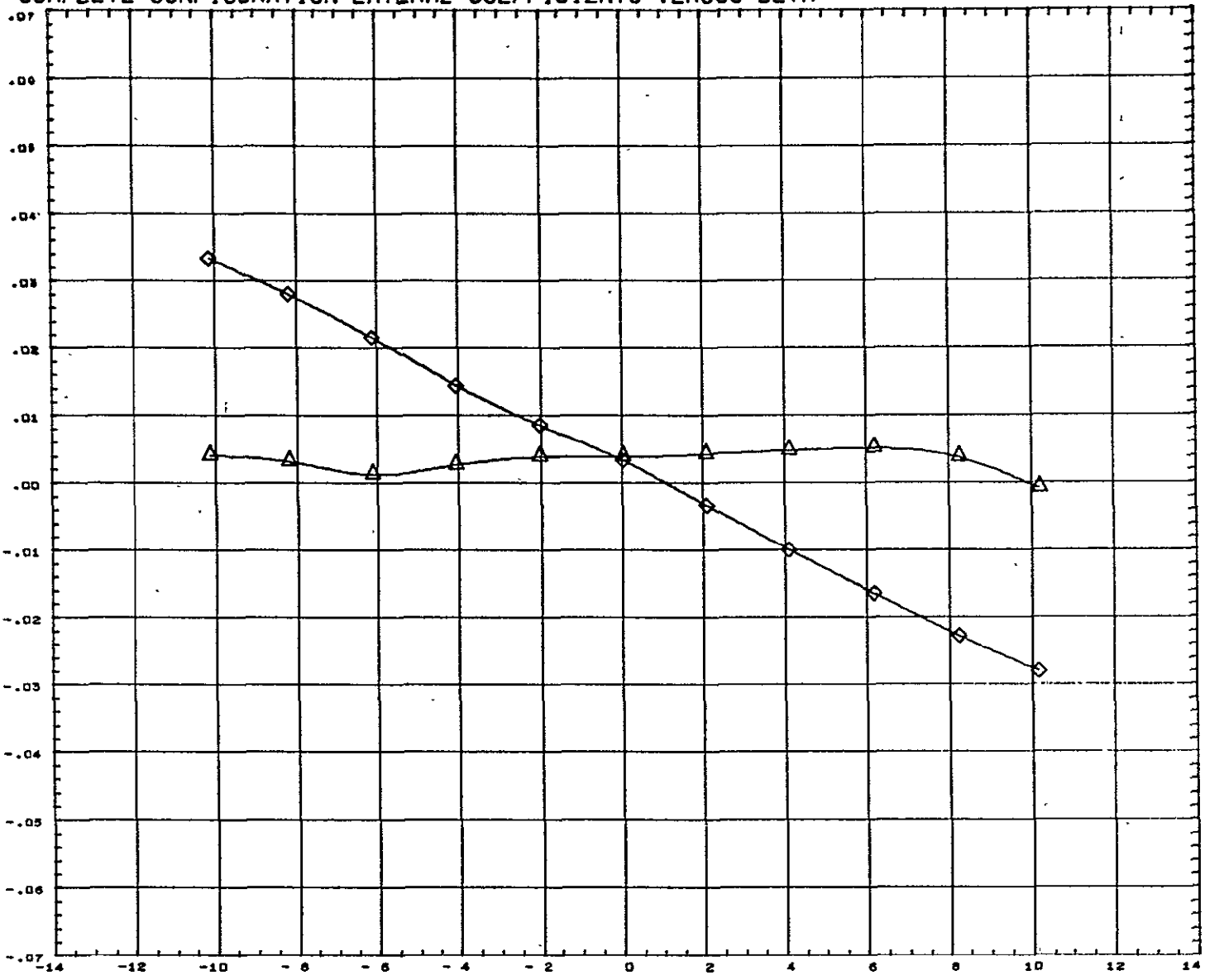


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.904

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

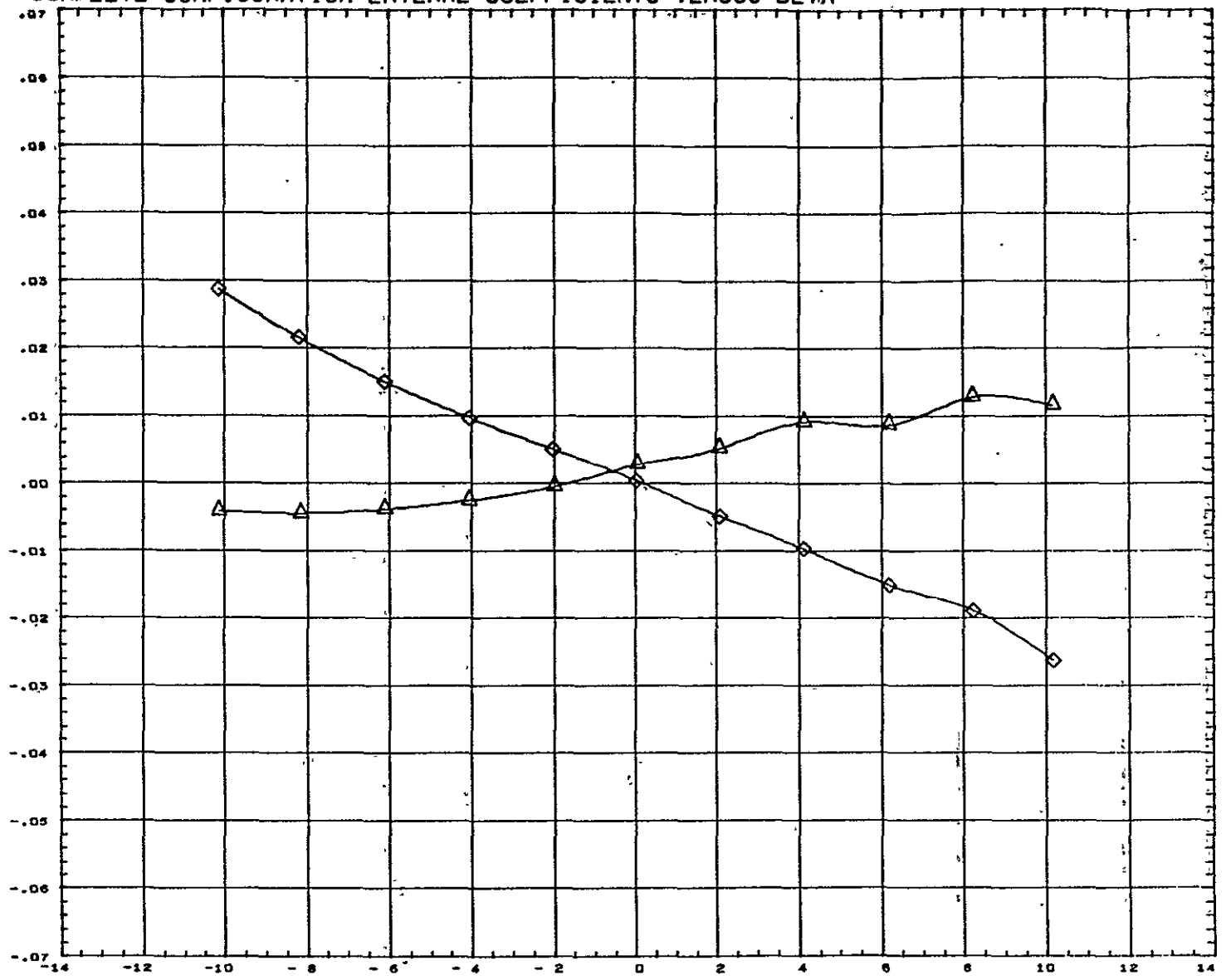


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F26Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F26Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.953

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

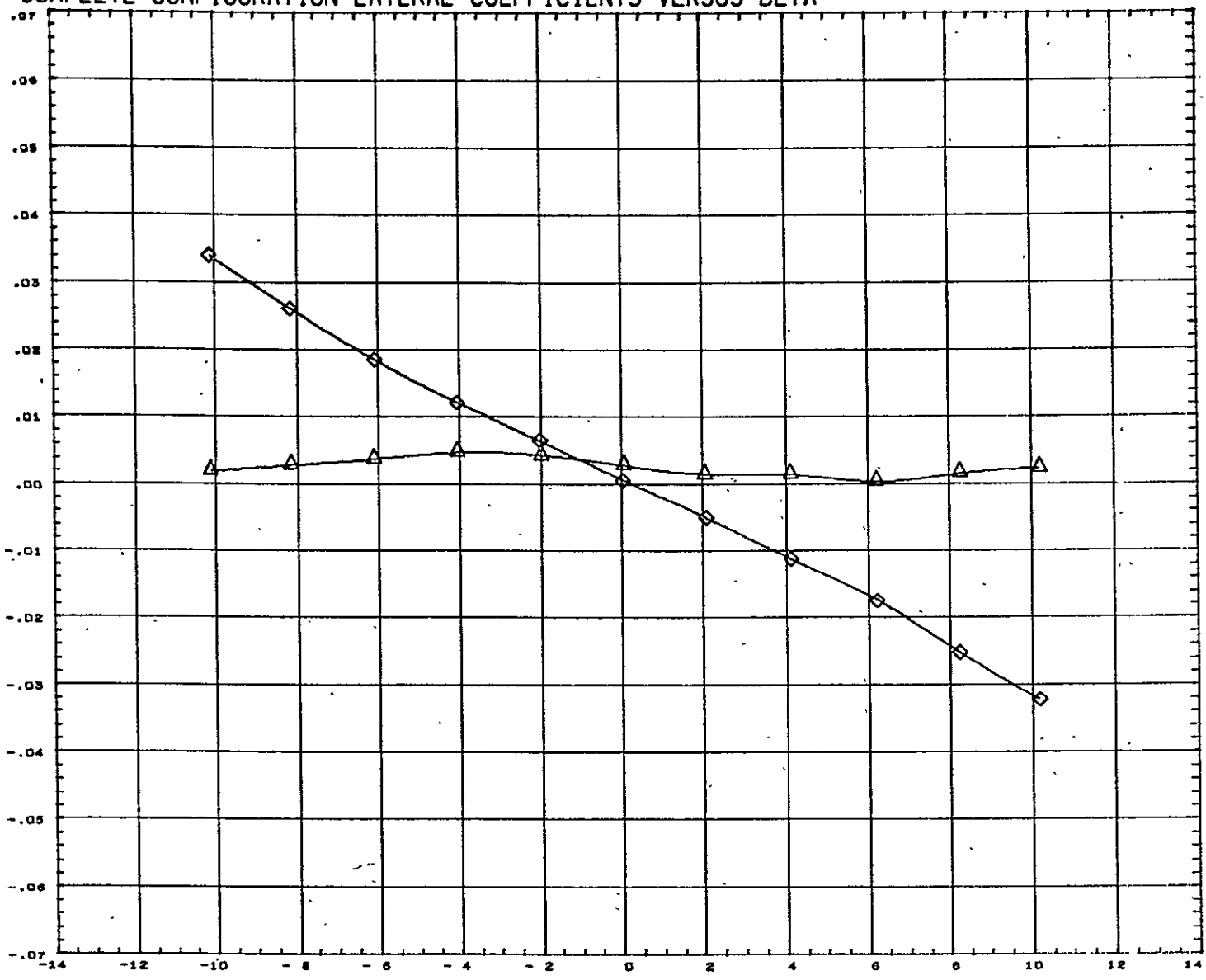


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y55)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)		MSFC481 GD/C(BOOSTER)B19W14G4A	15.000	0.000	0.000	
(F28Y41)		DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0039	

MACH 1.000

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

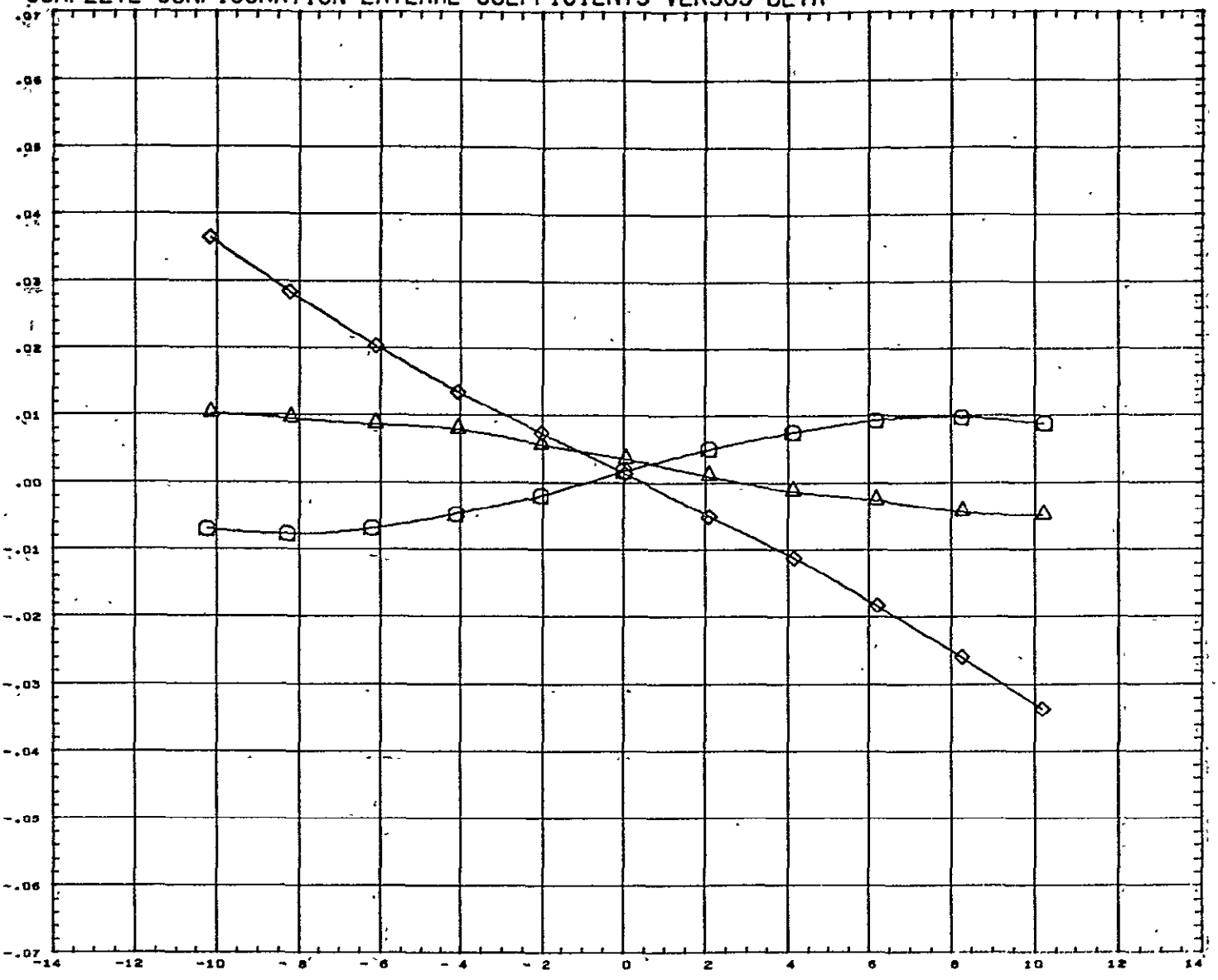


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC401 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC401 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

MACH 1.051

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

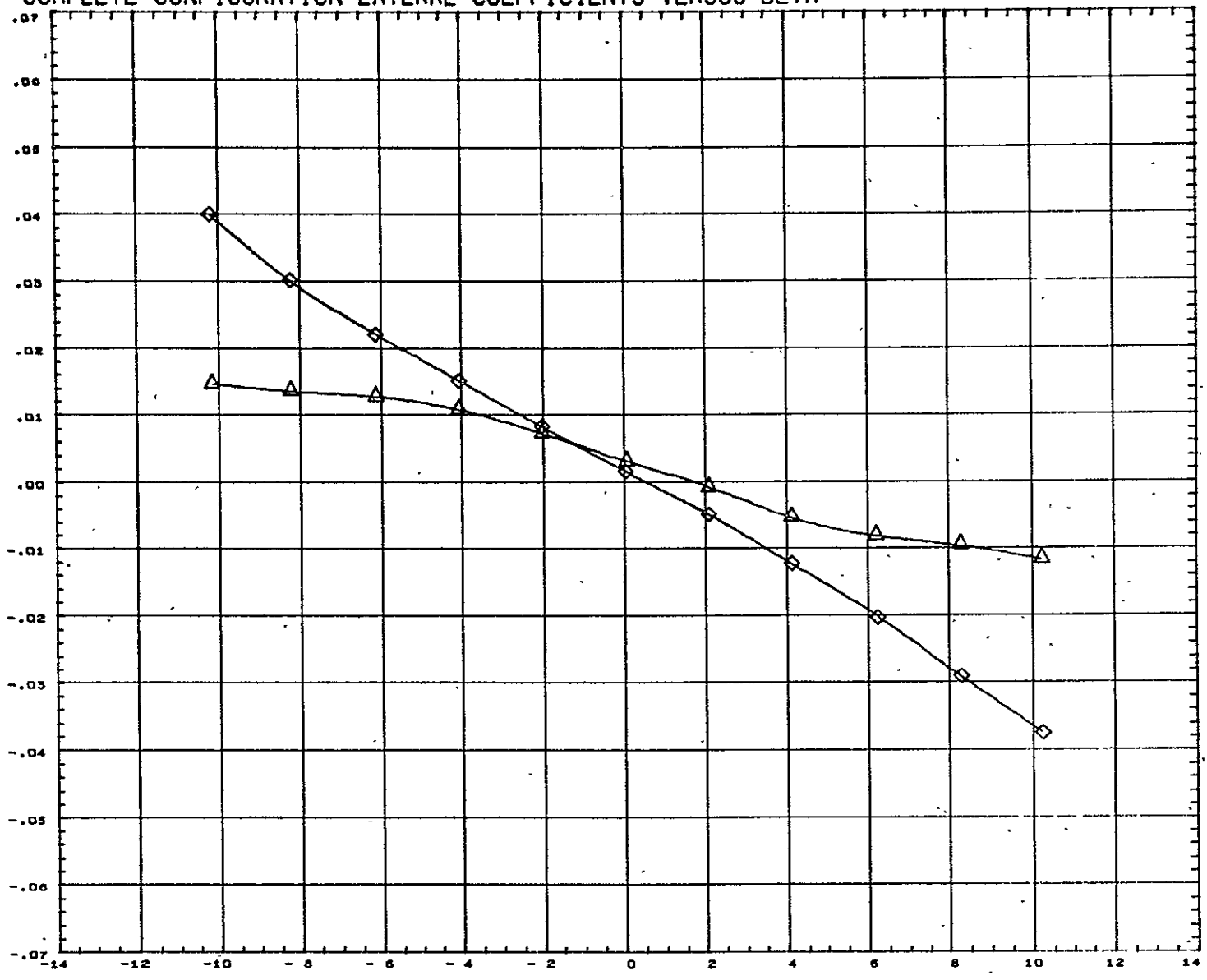


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.101

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

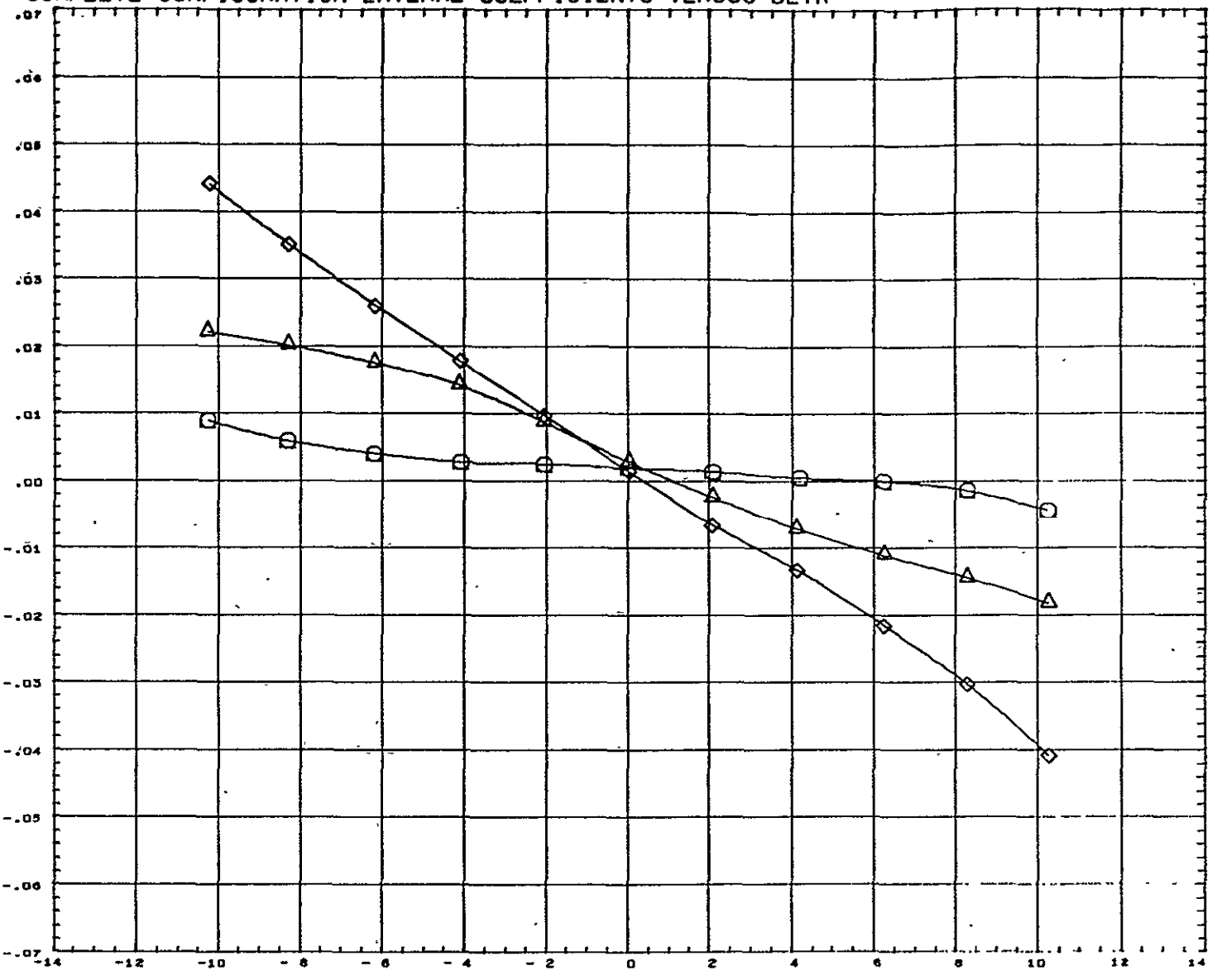


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.202

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA



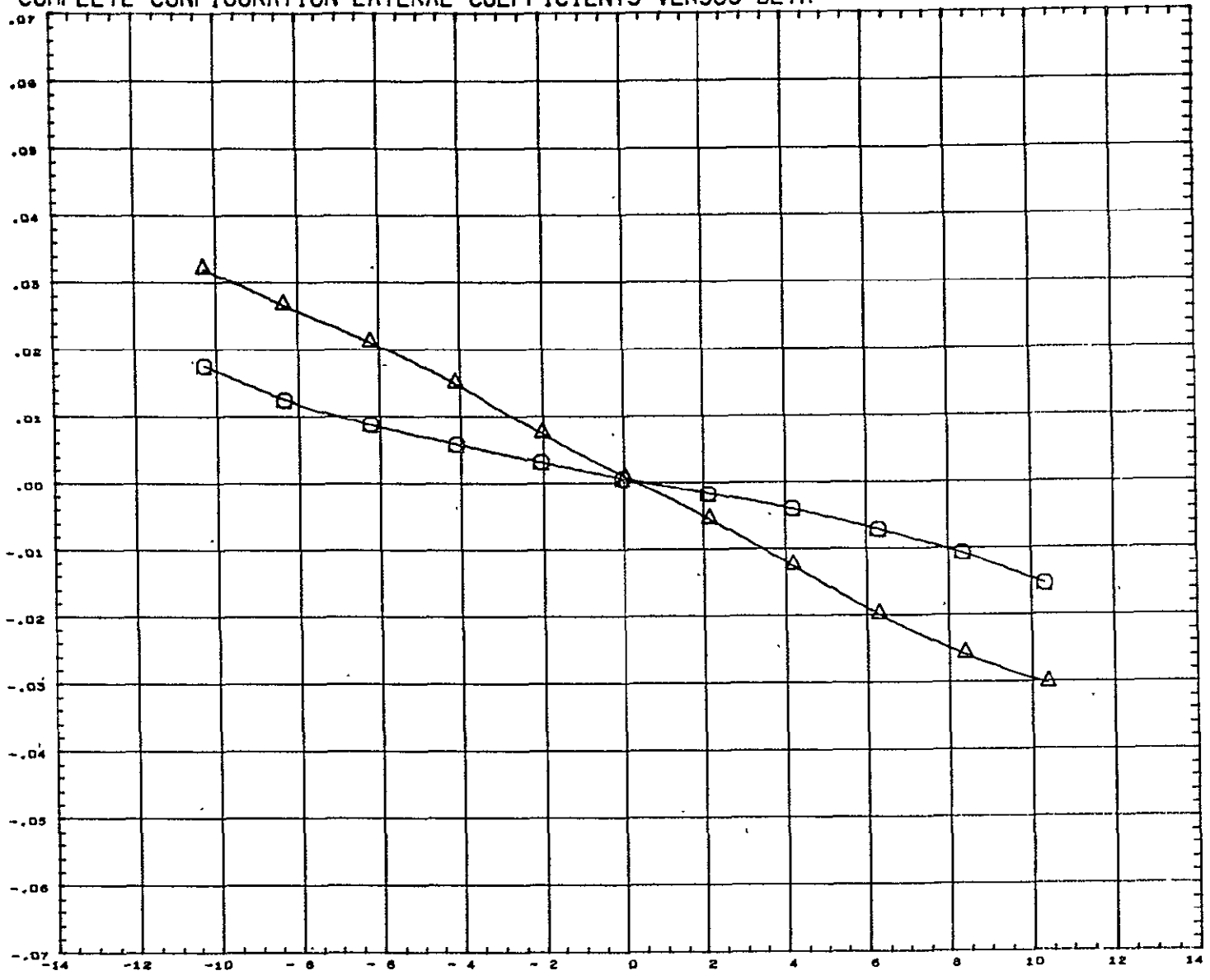
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD	ELEVON	RUDDER
0.000	0.000	0.000	
15.000	0.000	0.000	0.000
15.000	0.000	0.000	
35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.461

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

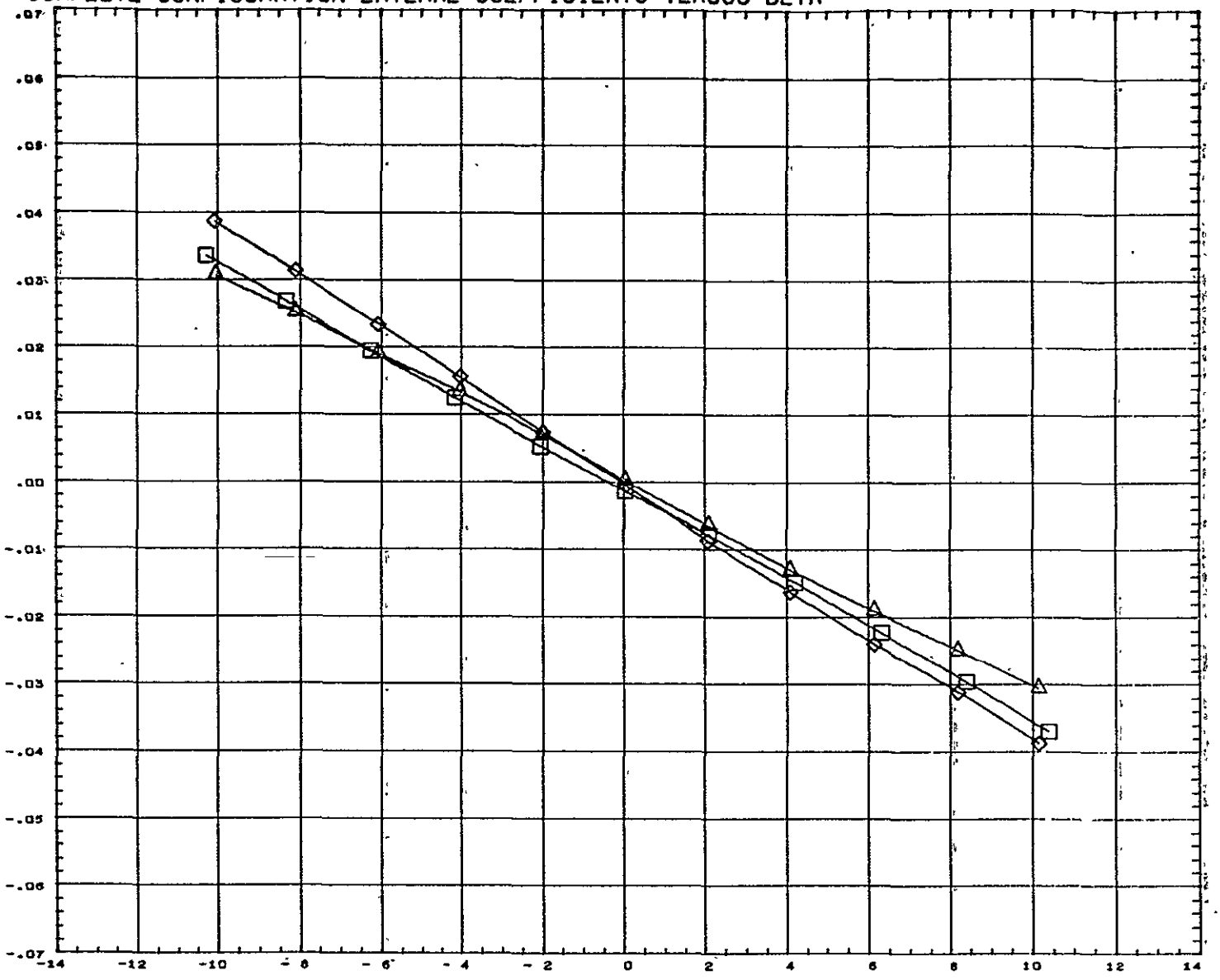


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.956

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

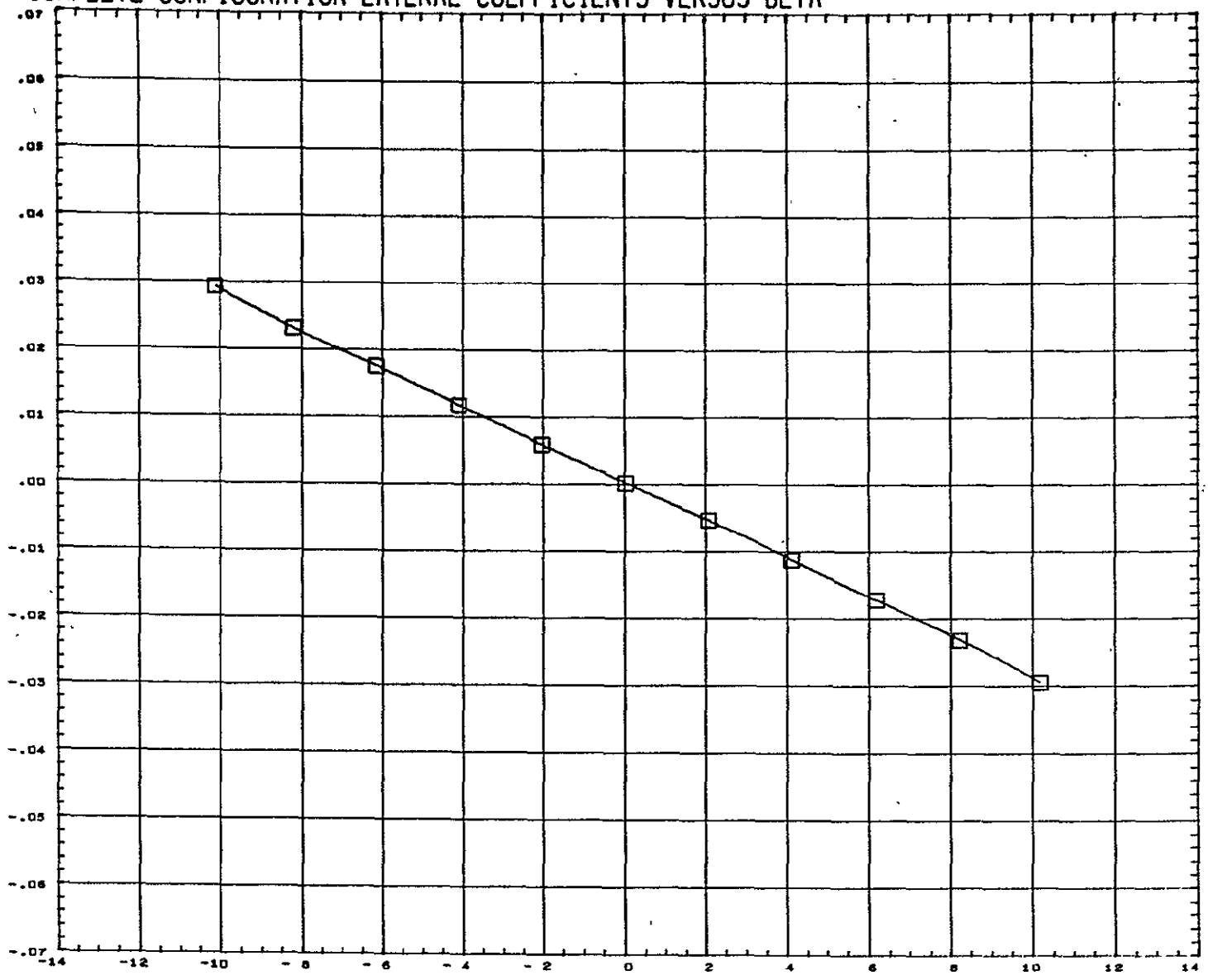


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	MSFC481 GD/C(BOOSTER)B19W14C4A	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA



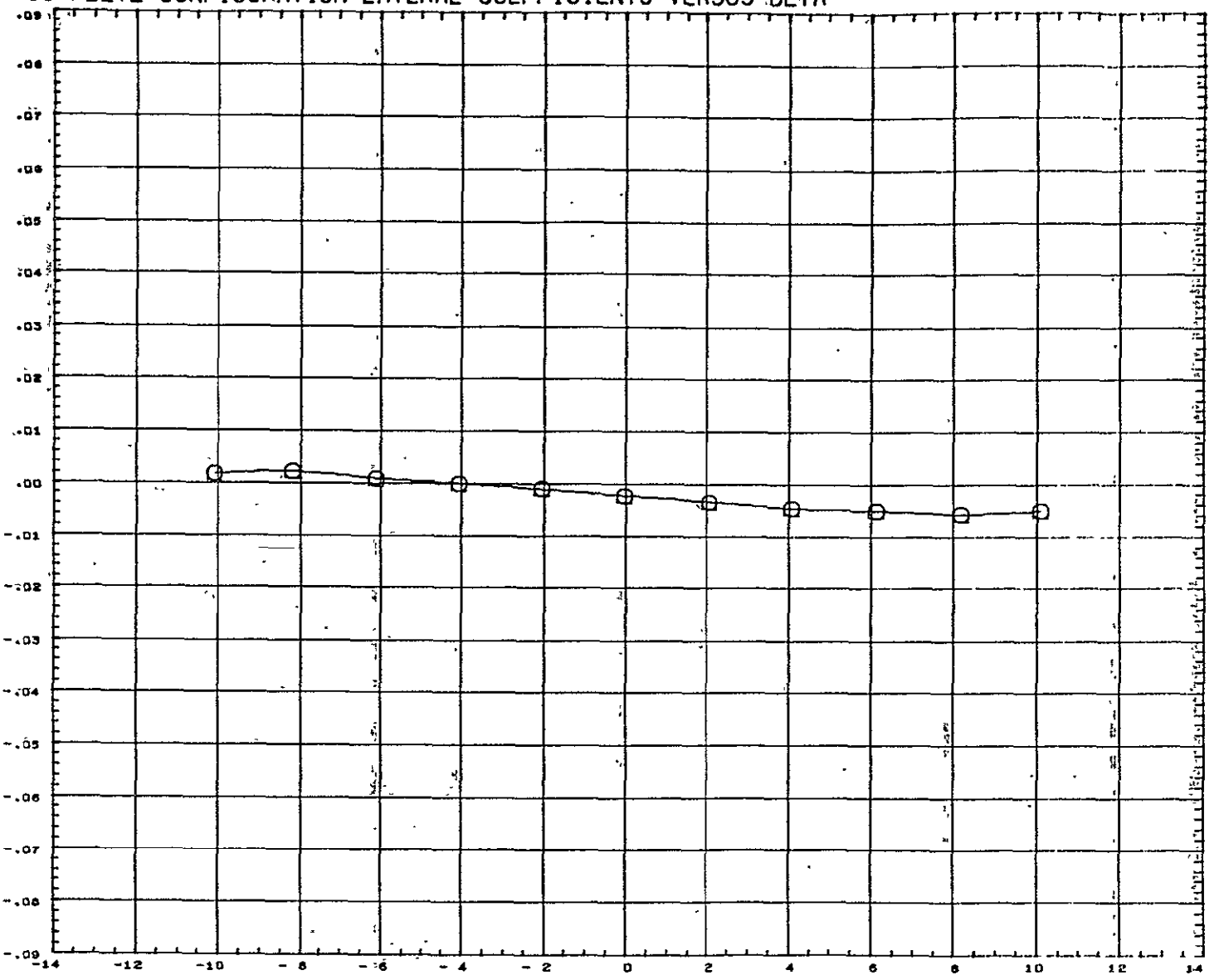
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y21)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y31)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y41)	□	MSFC461 GD/C(BOOSTER)B19W14C4A

MACH 4.959

ALPHA	CANARD	ELEVON	RUDDER
0.000	0.000	0.000	
15.000	0.000	0.000	0.000
15.000	0.000	0.000	
35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

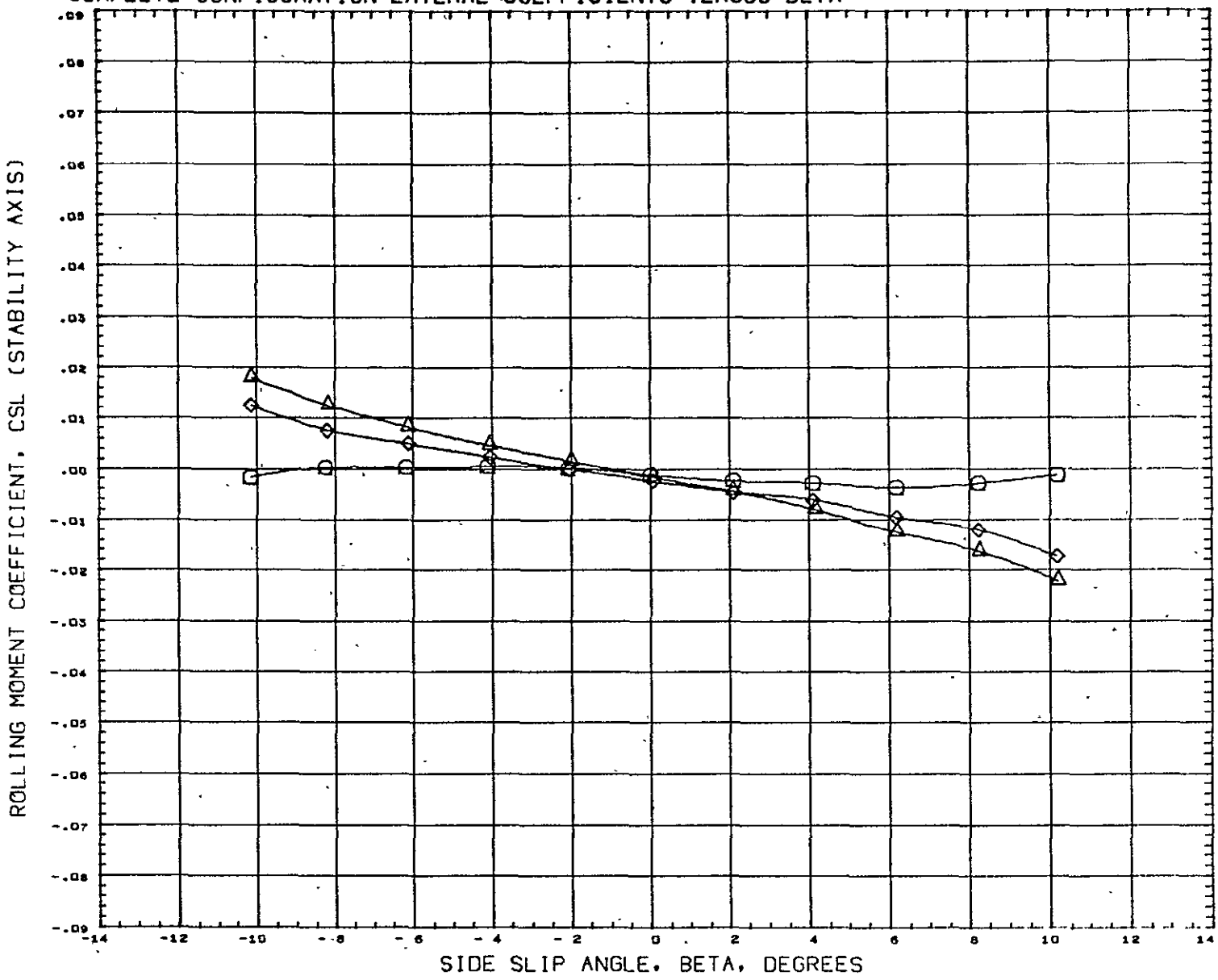


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	HSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000
(F28Y31)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

MACH 0.607

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0930	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

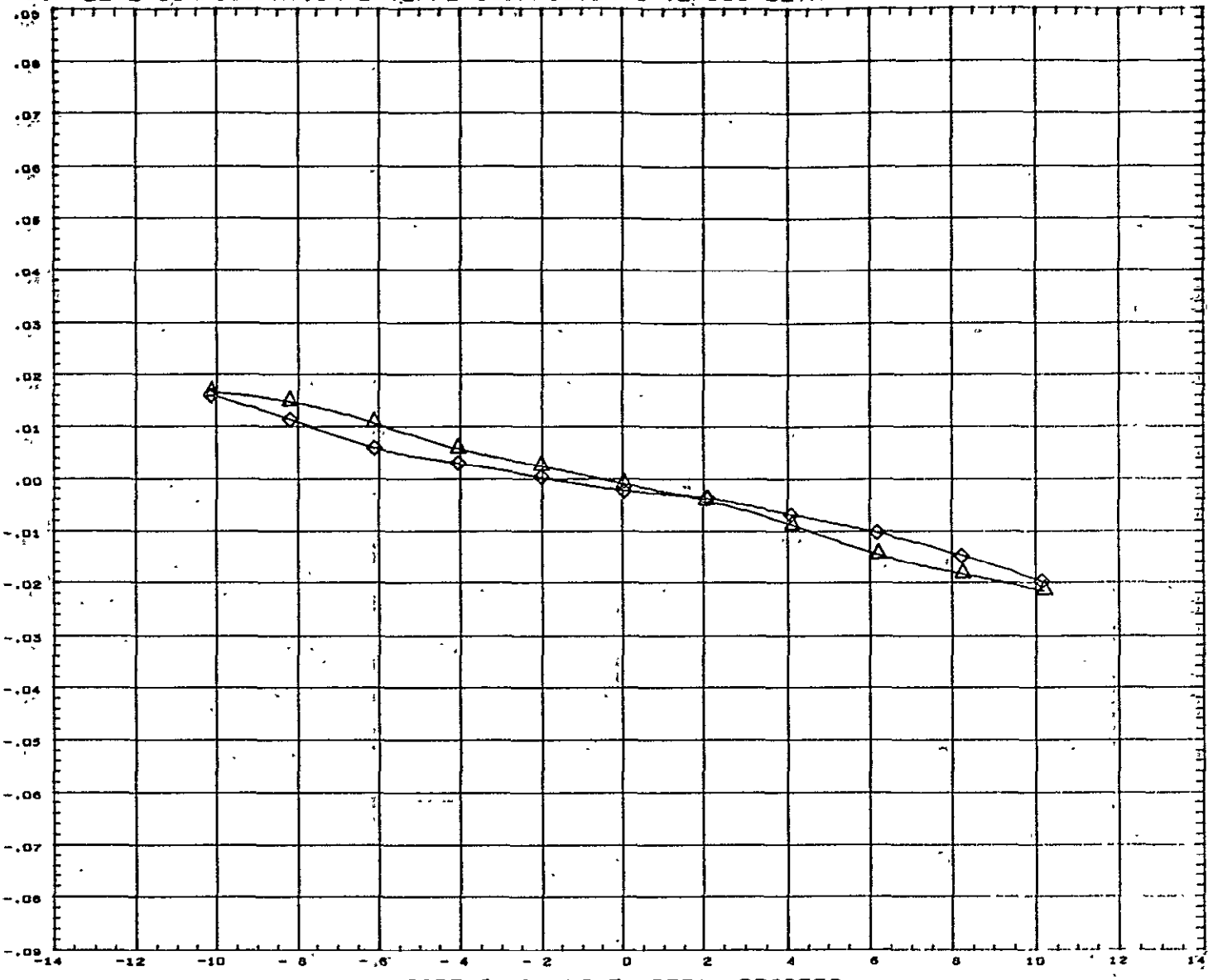


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

MACH 0.904

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

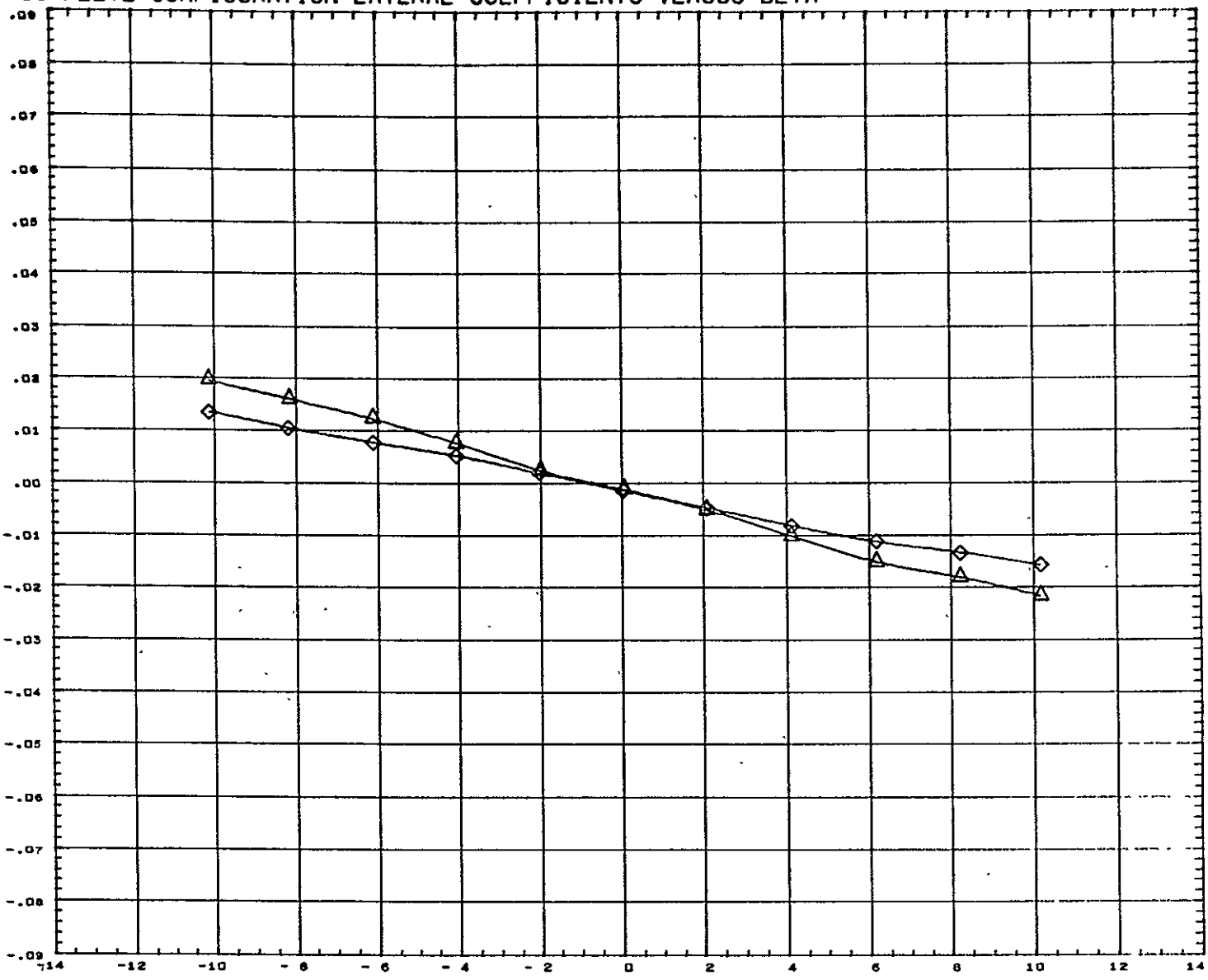


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.955

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

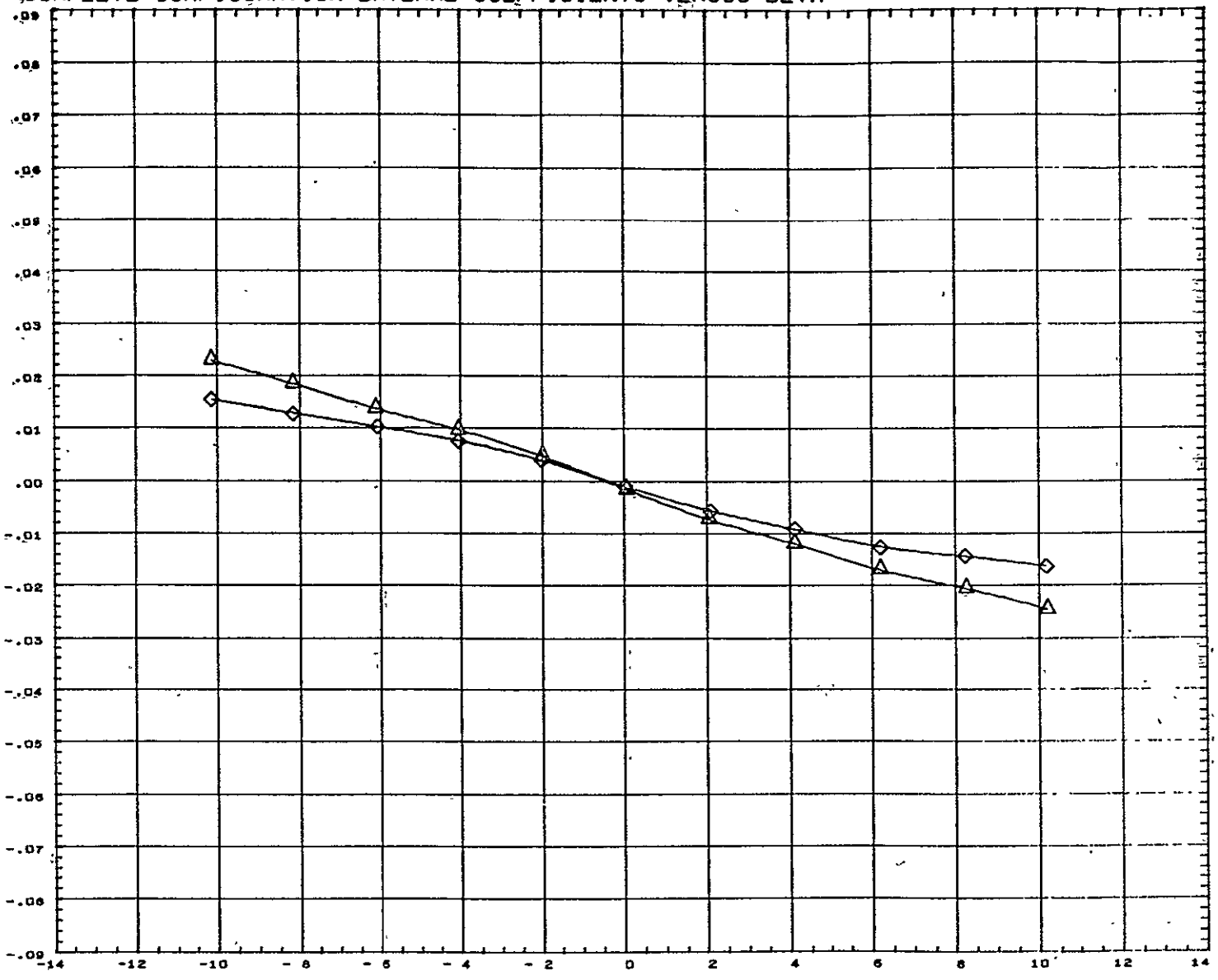


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

MACH 1.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

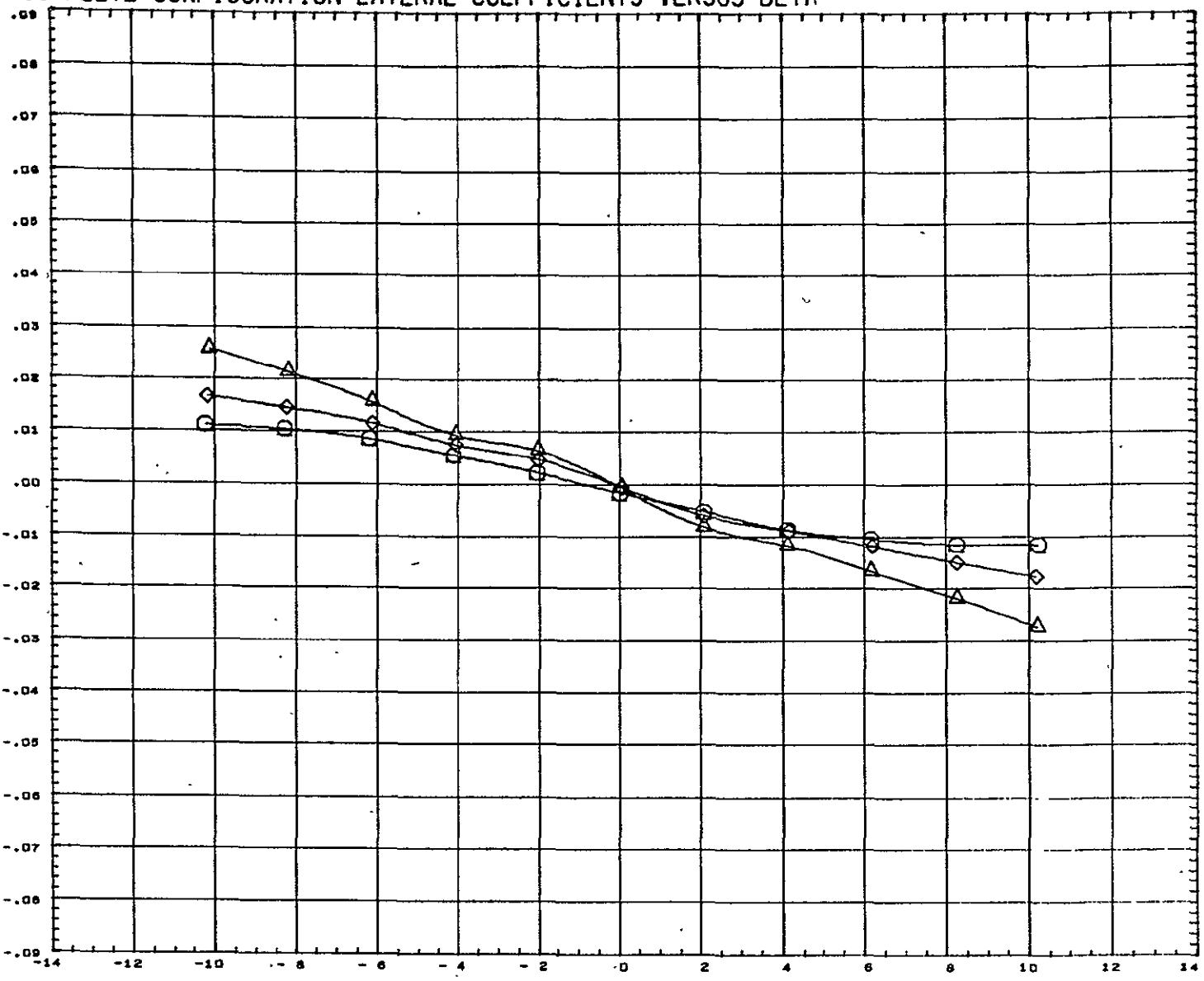


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0055	

MACH 1.051

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

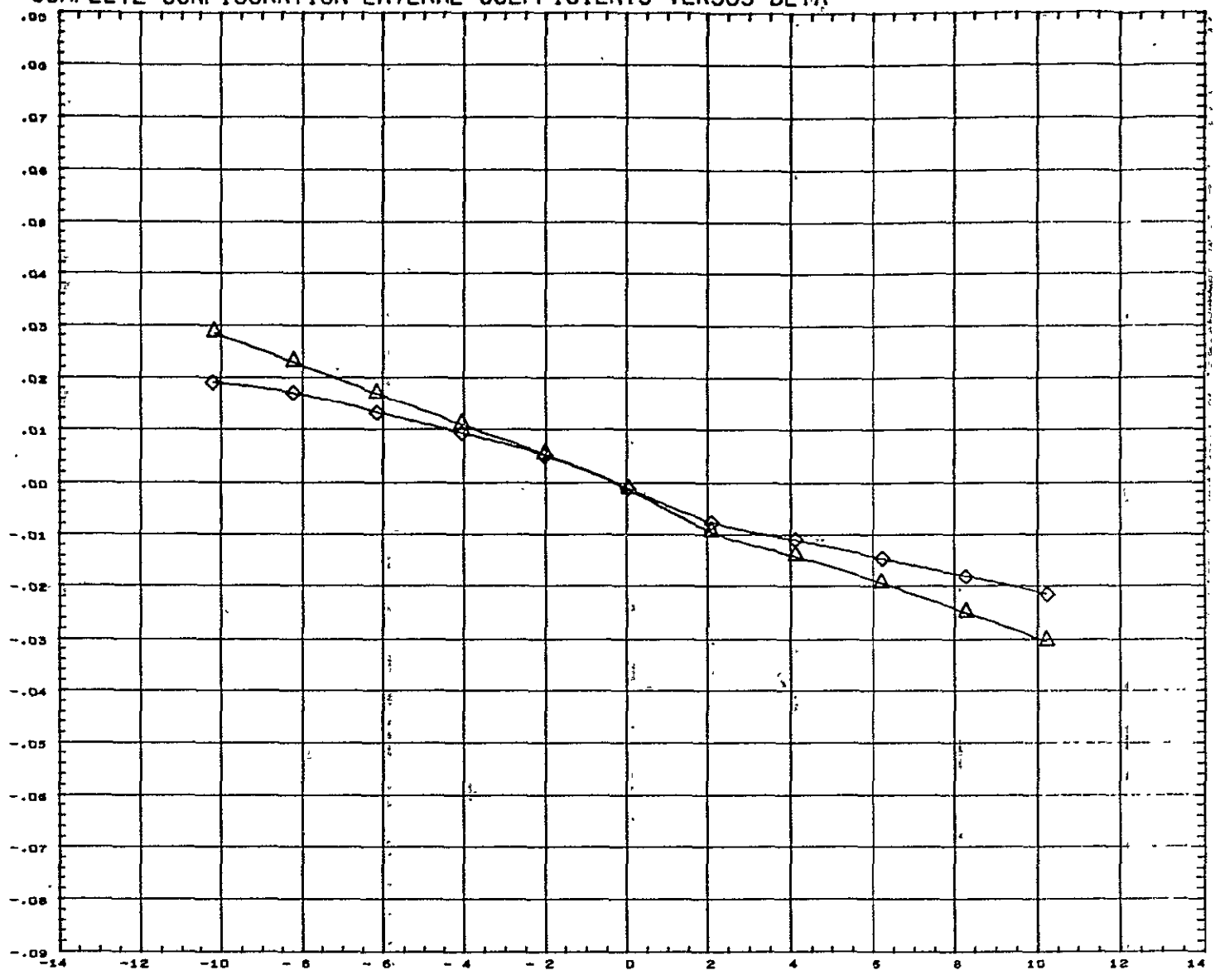


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.101

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA



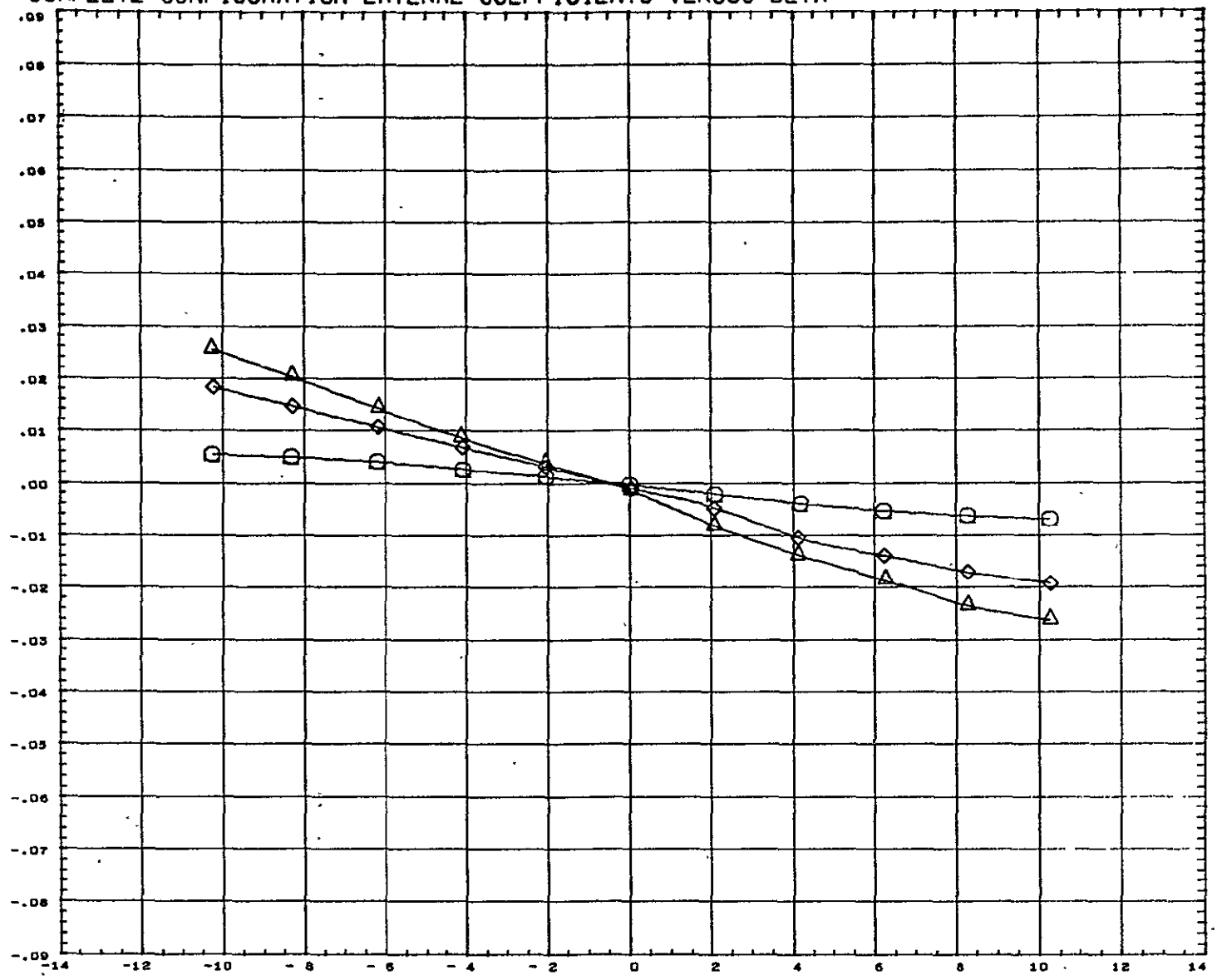
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

MACH 1.202

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

21 ⑨

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

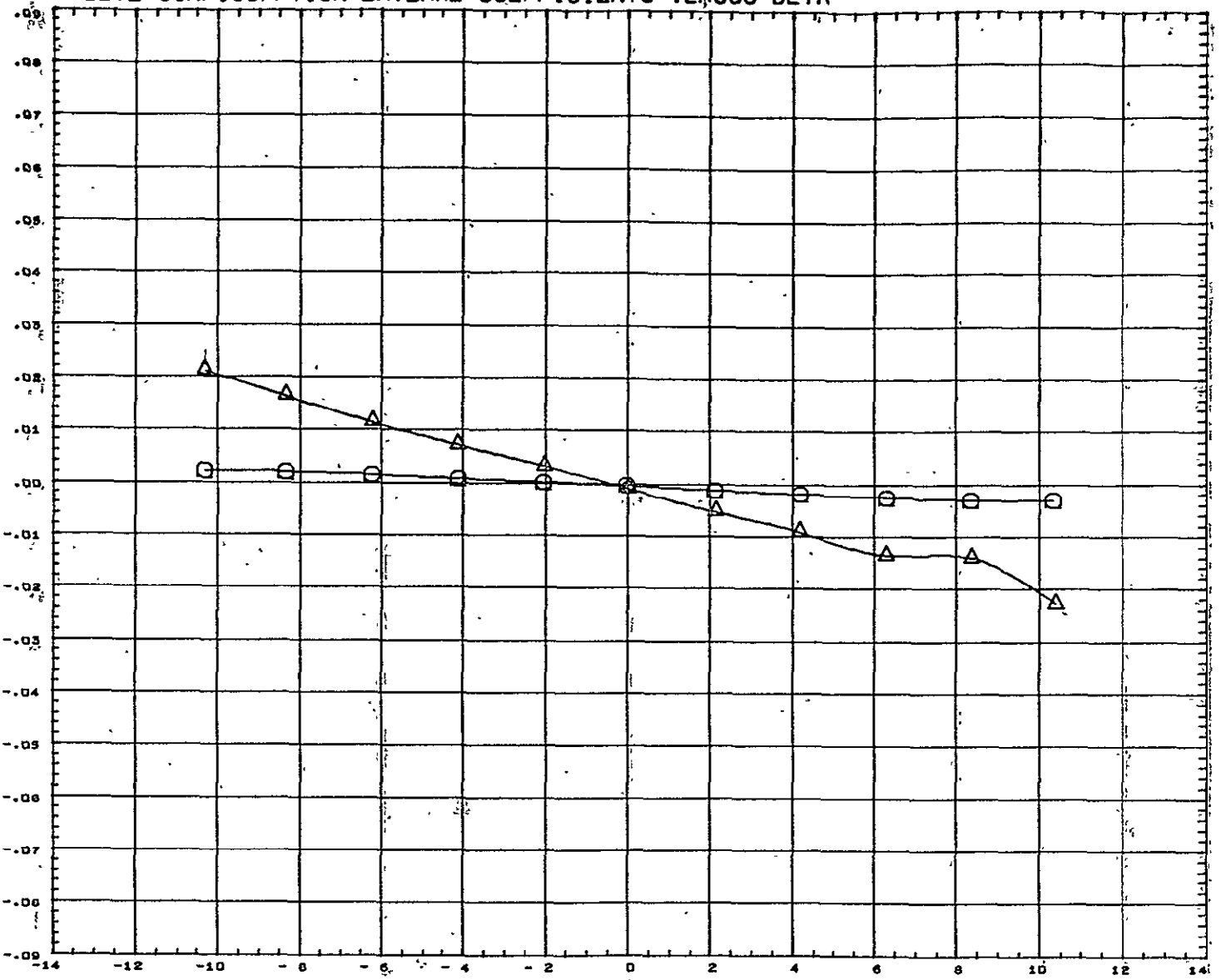


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F26Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F26Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.461

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

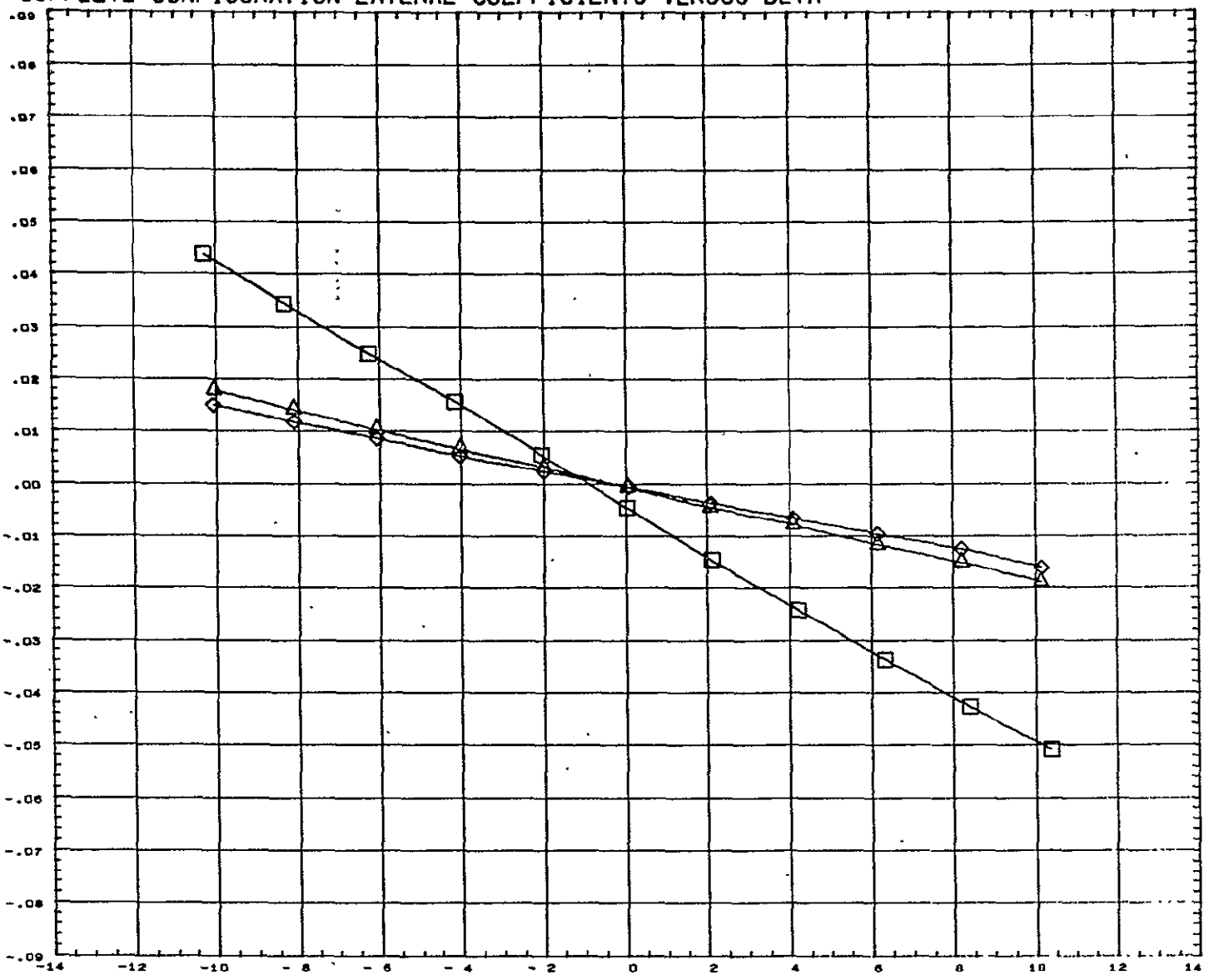


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION.	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F20Y41)..	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.956

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

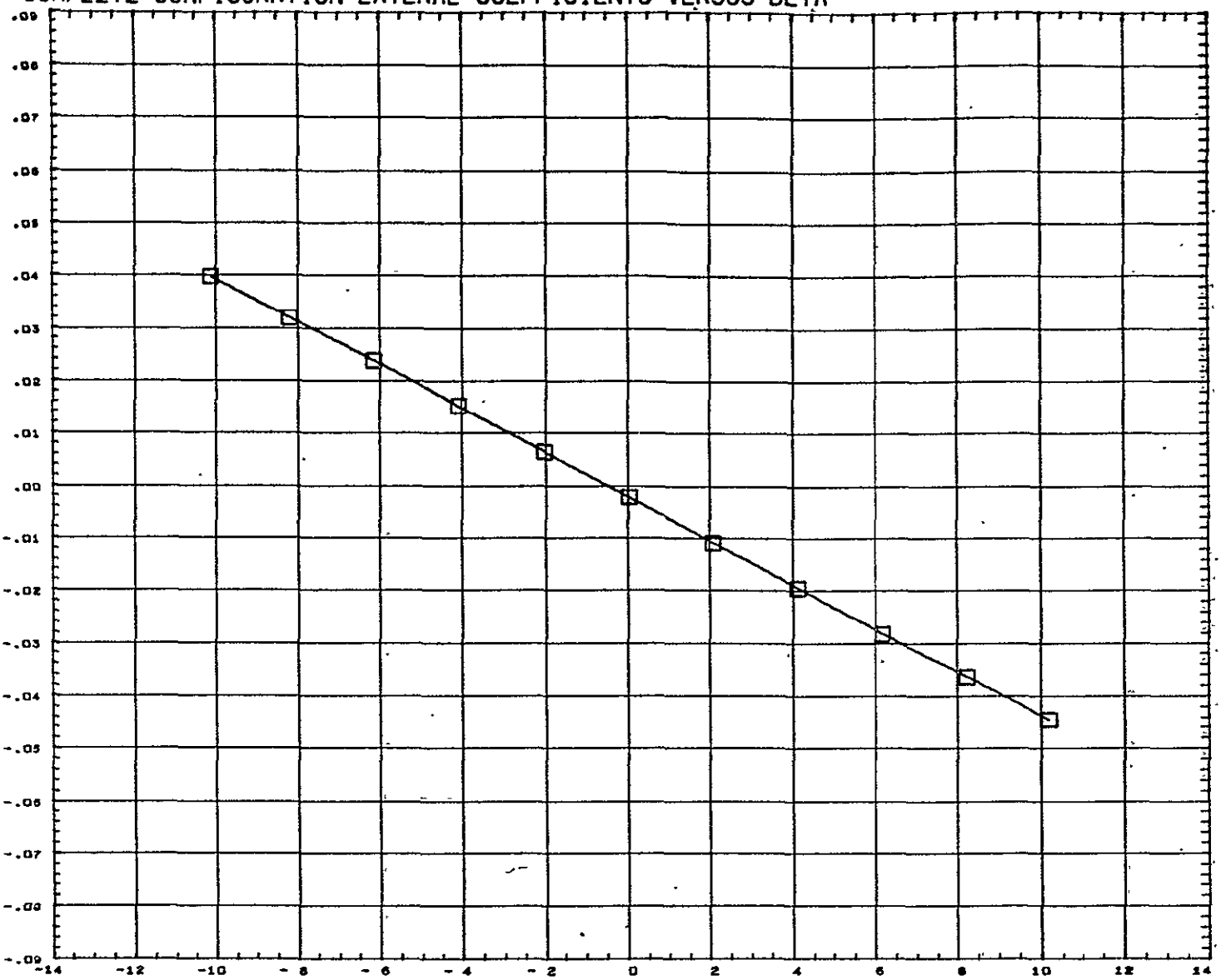


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)819W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)819W14C4A	15.000	0.000	0.000	
(F28Y41)	□	MSFC481 GD/C(BOOSTER)819W14C4A	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

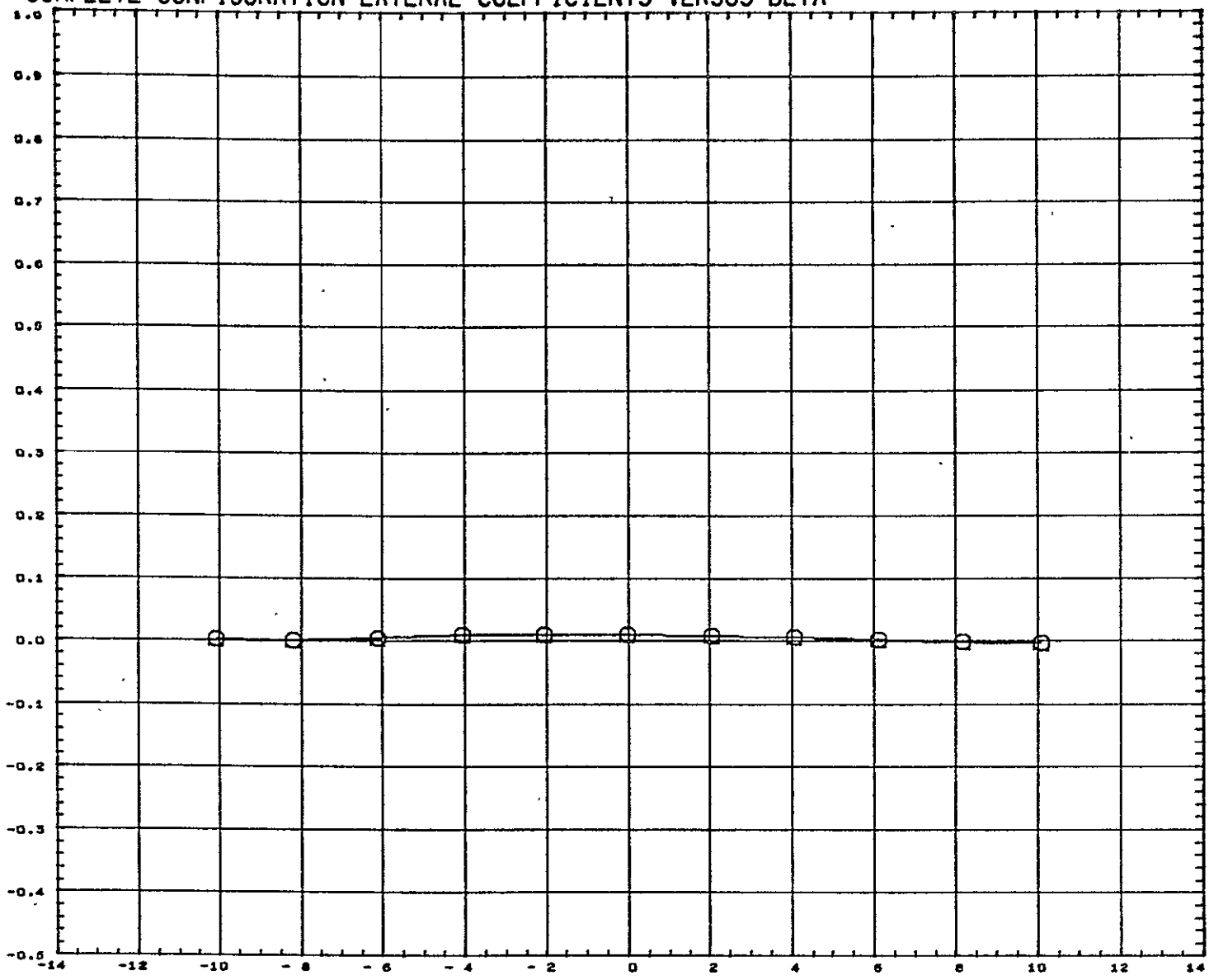


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000
(F28Y31)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	
(F28Y41)	□	HSFC401 GD/C(BOOSTER)B19W14C4A	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.959

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

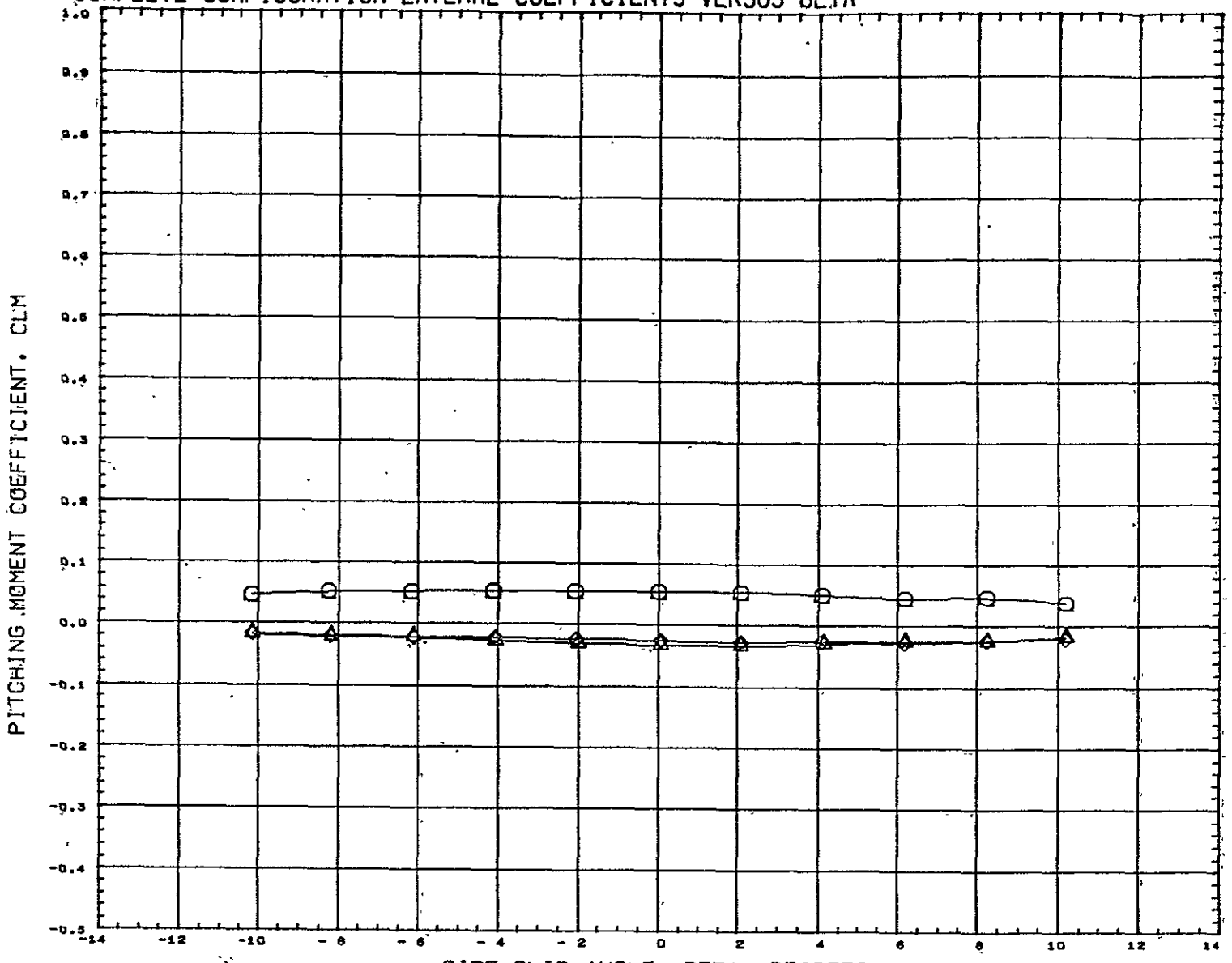


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F20Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F20Y21)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000
(F20Y31)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	
(F20Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.607

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA



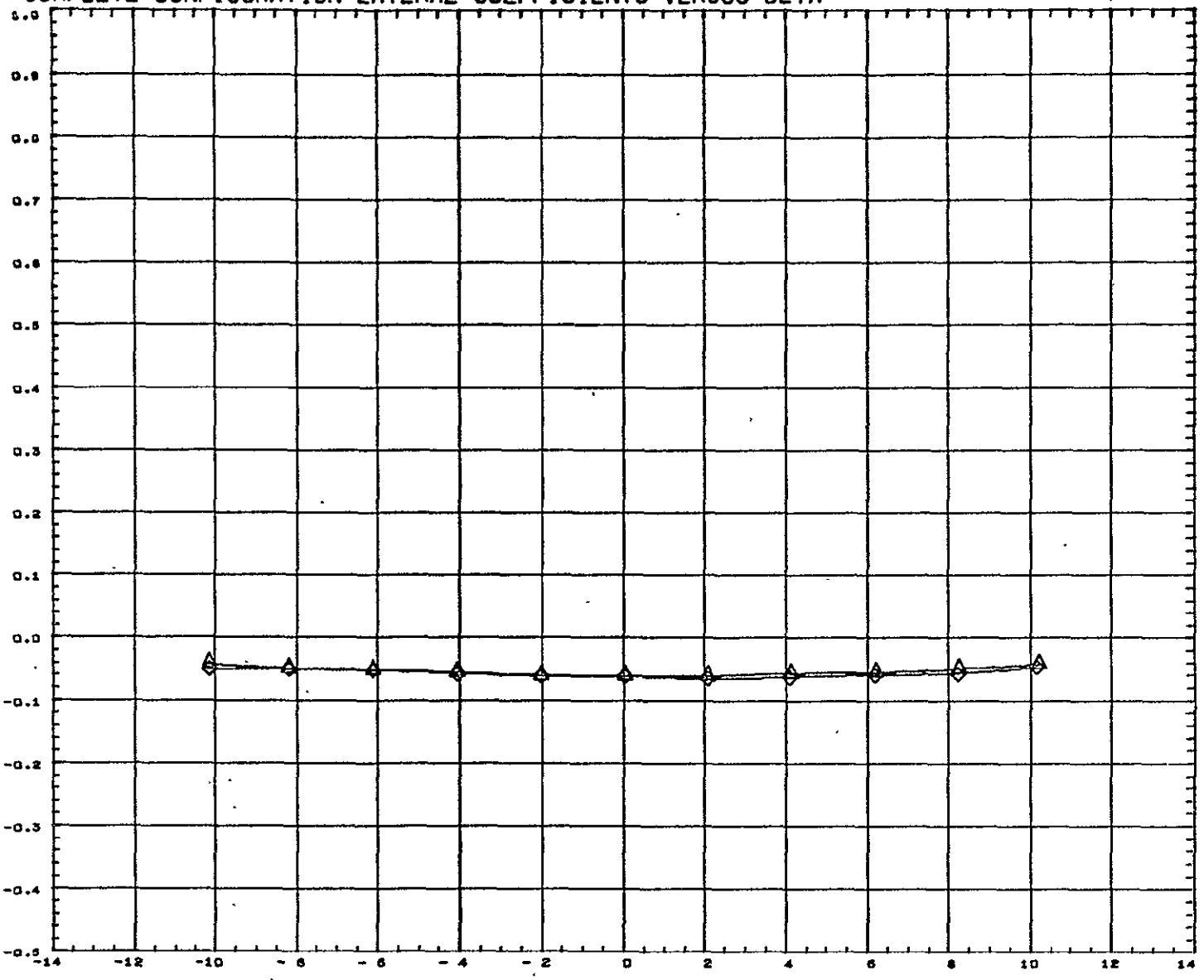
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 0.904

ALPHA	CANARD	ELEVON	RUDDER
0.000	0.000	0.000	
15.000	0.000	0.000	0.000
15.000	0.000	0.000	
35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

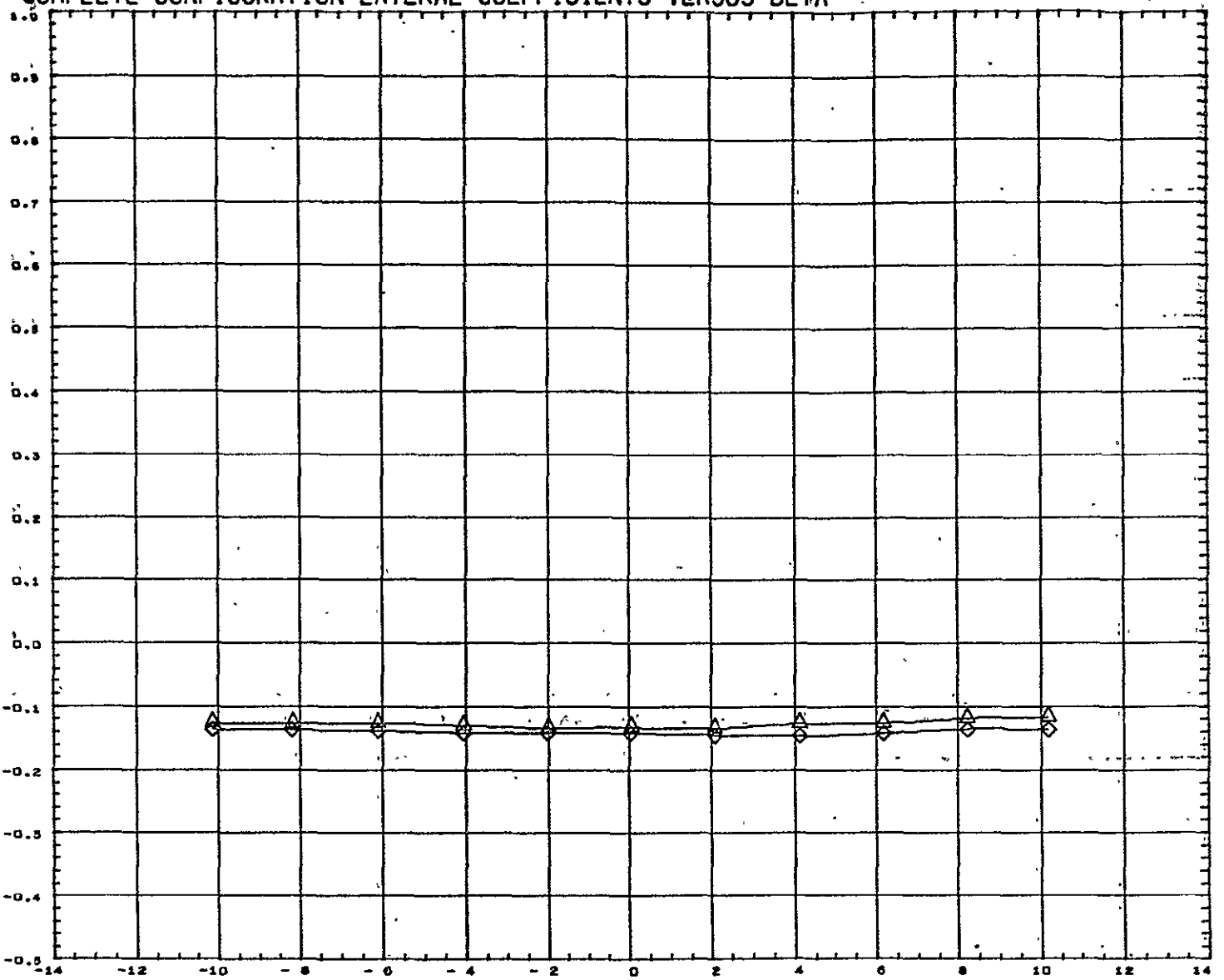


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.953

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

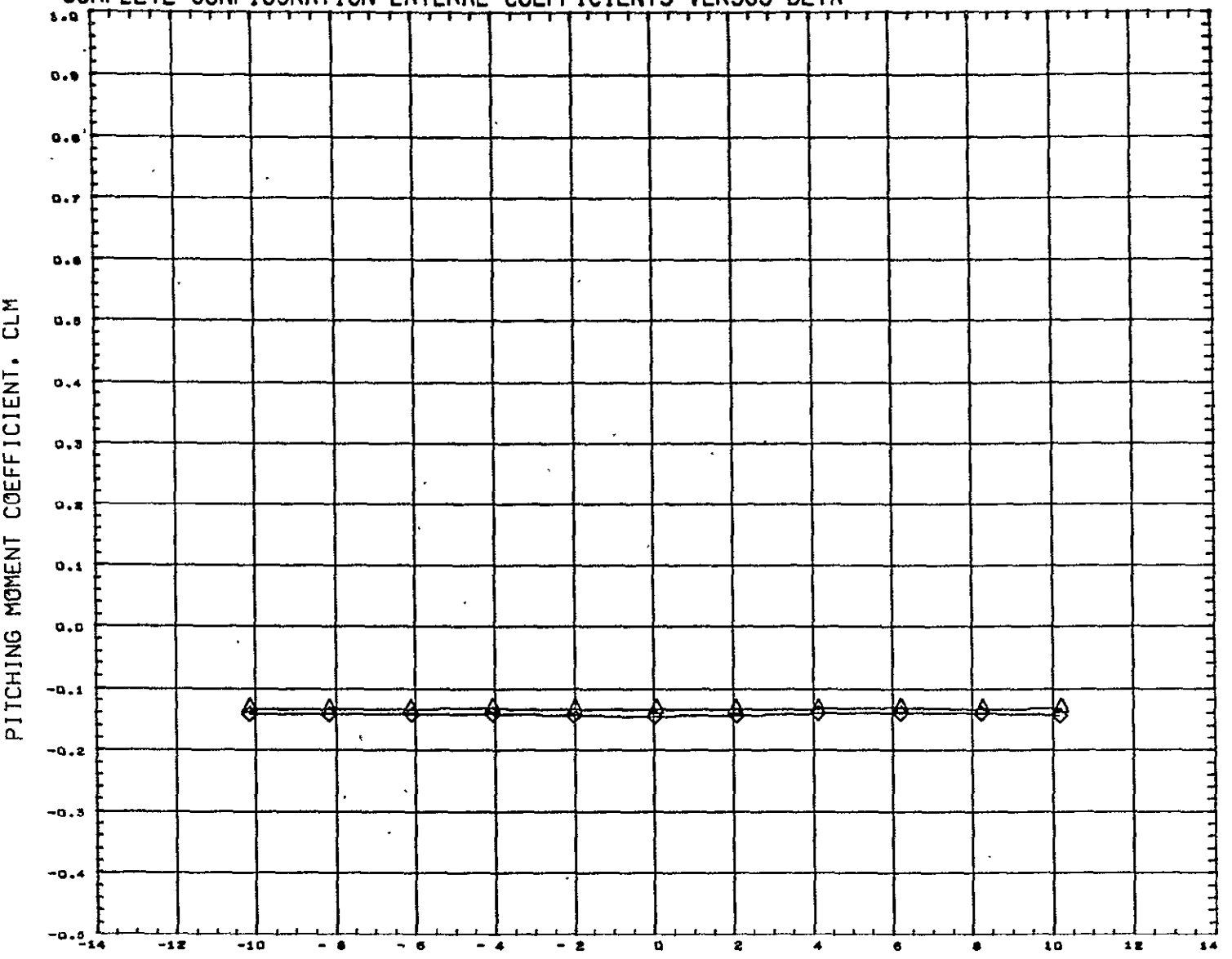


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F26Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F26Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

MACH 1.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

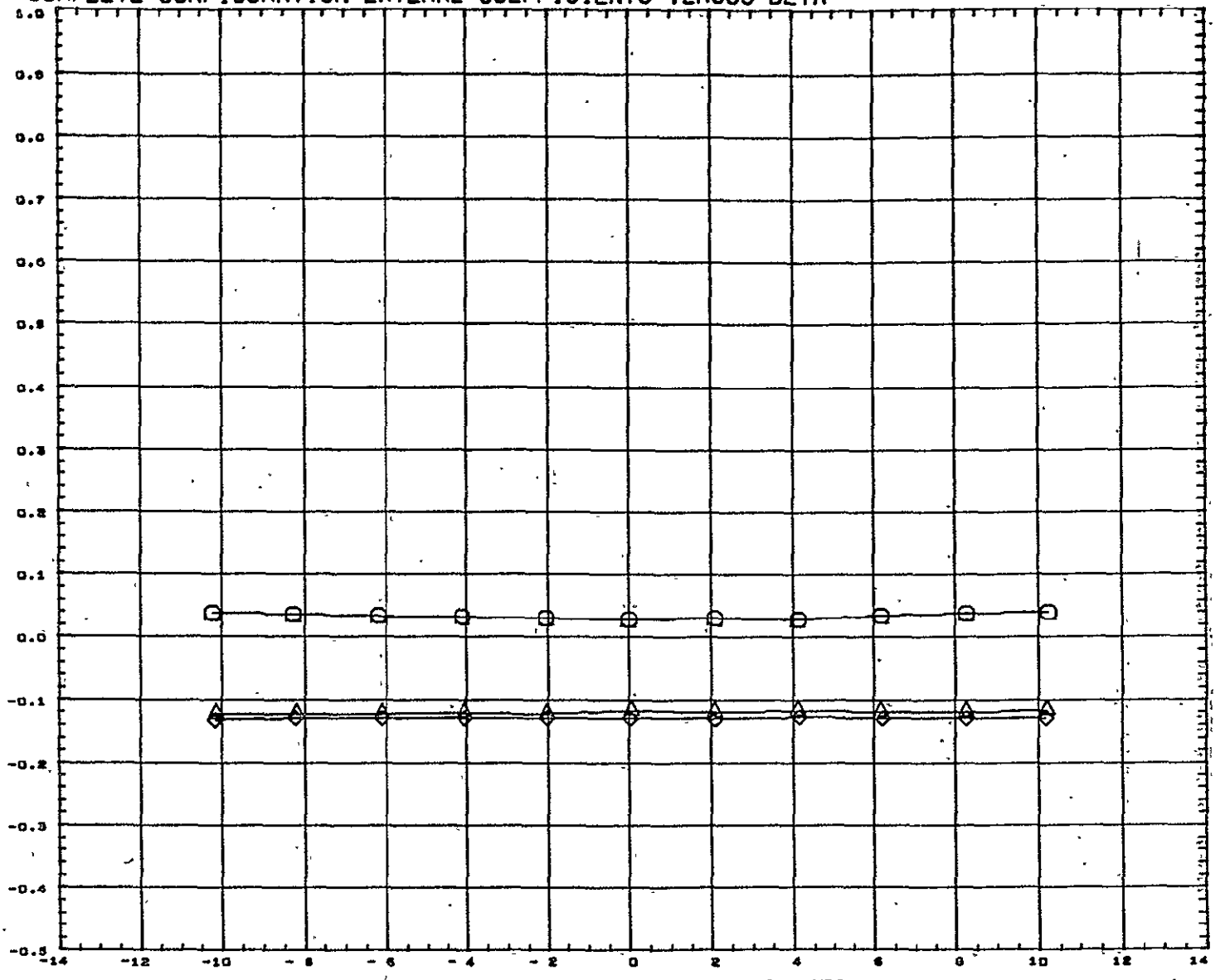


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)		MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)		DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

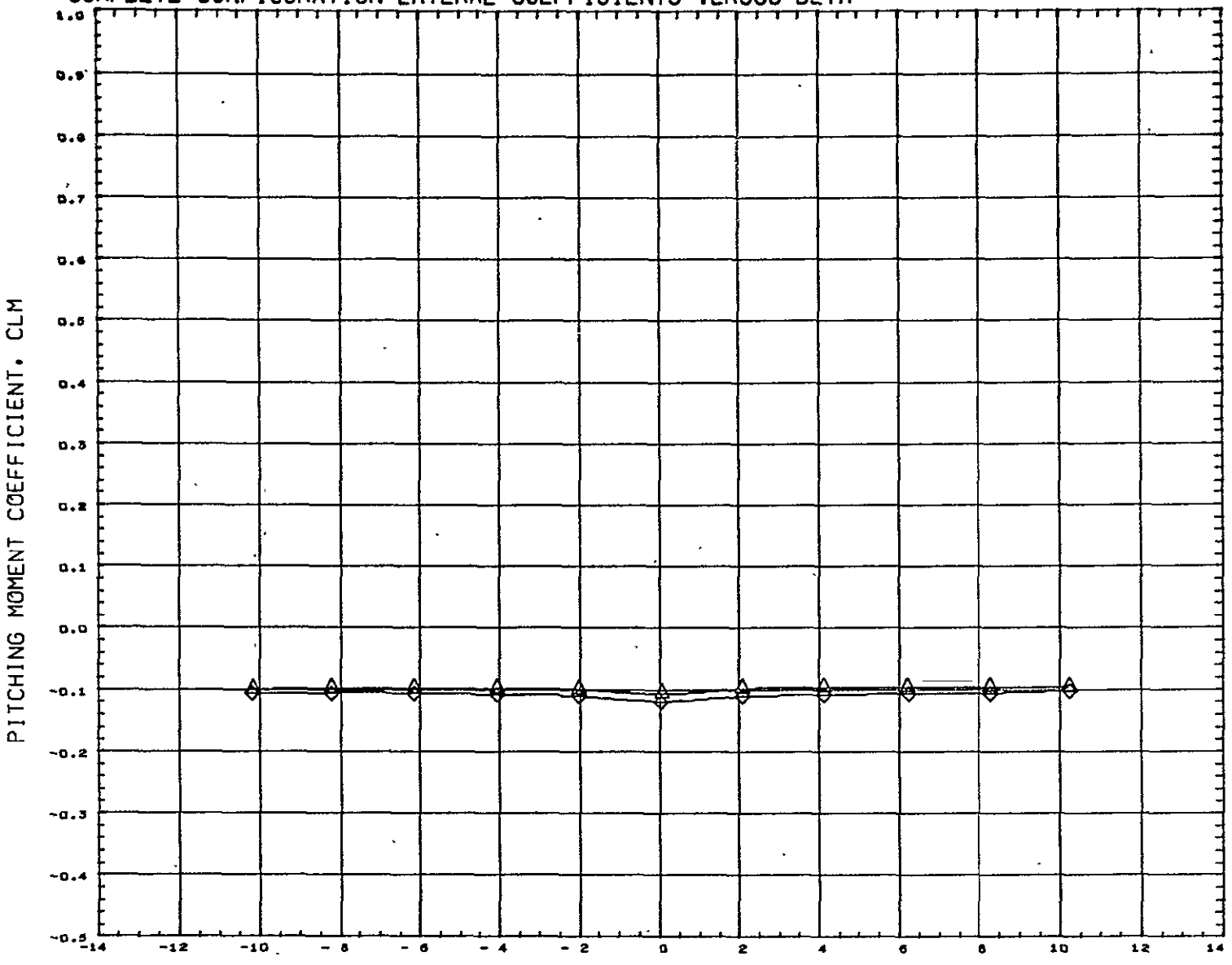


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)		MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)		MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)		DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.101

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

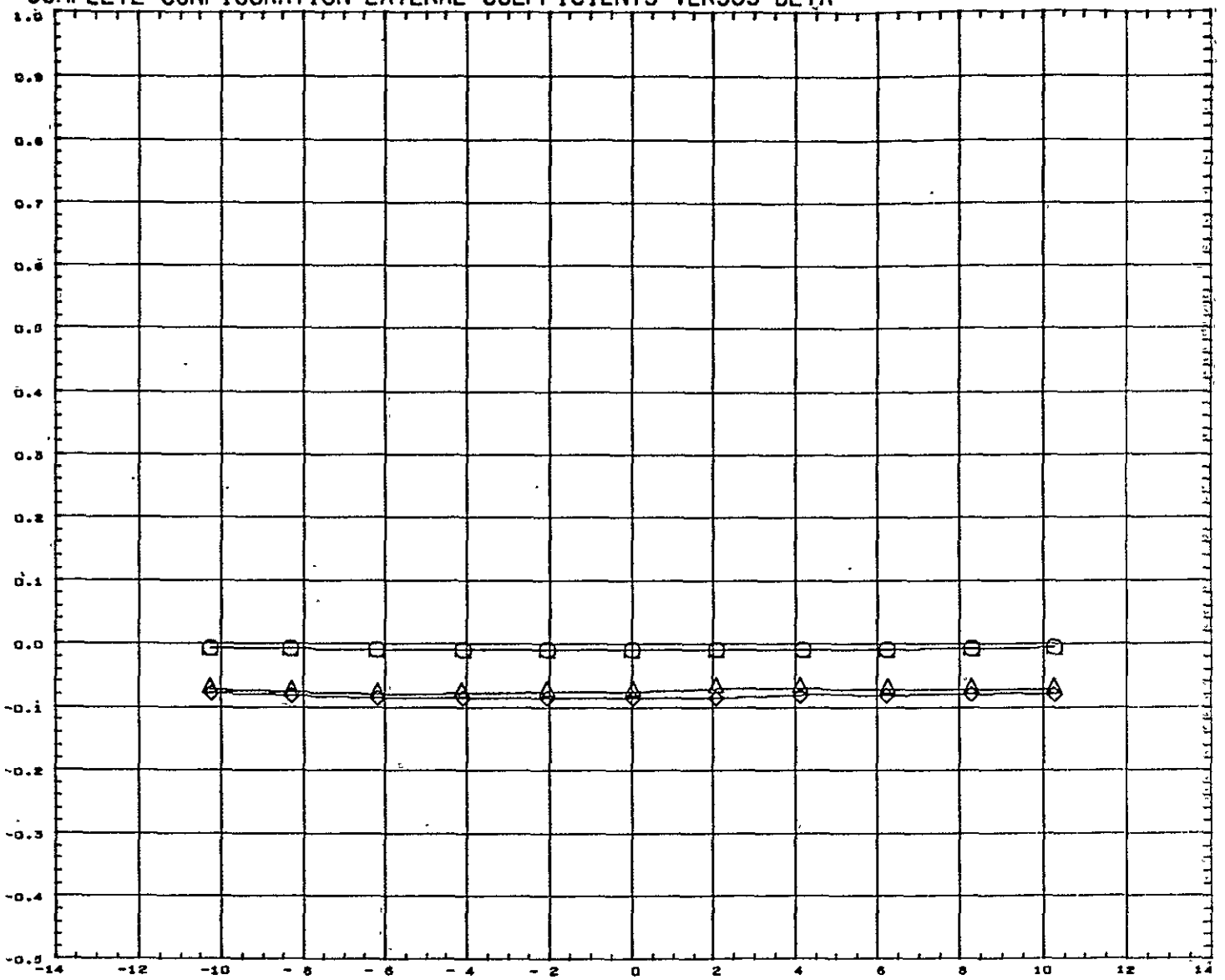


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.202

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

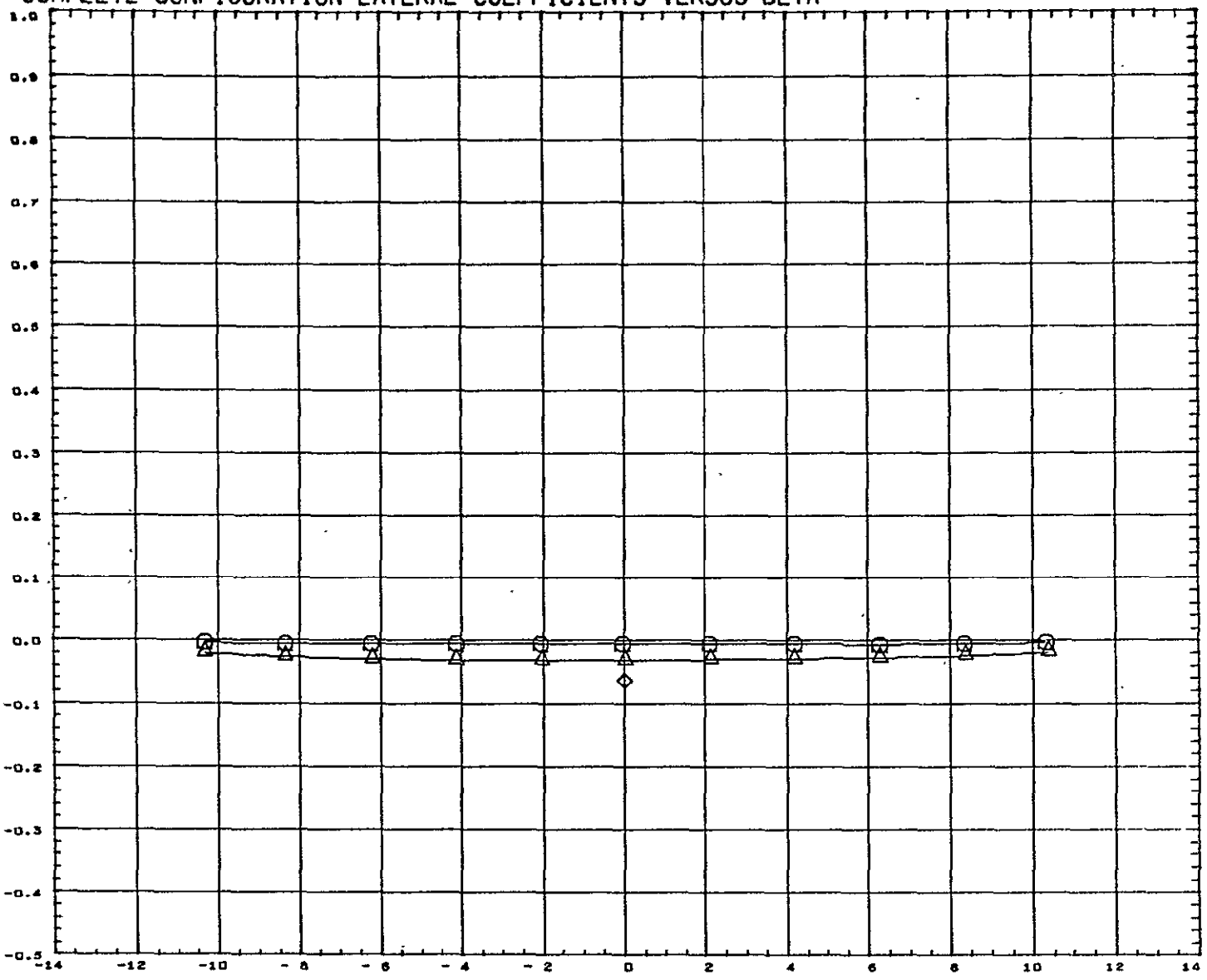


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)		HSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)		HSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)		HSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)		DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0:0035	

MACH 1.461

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

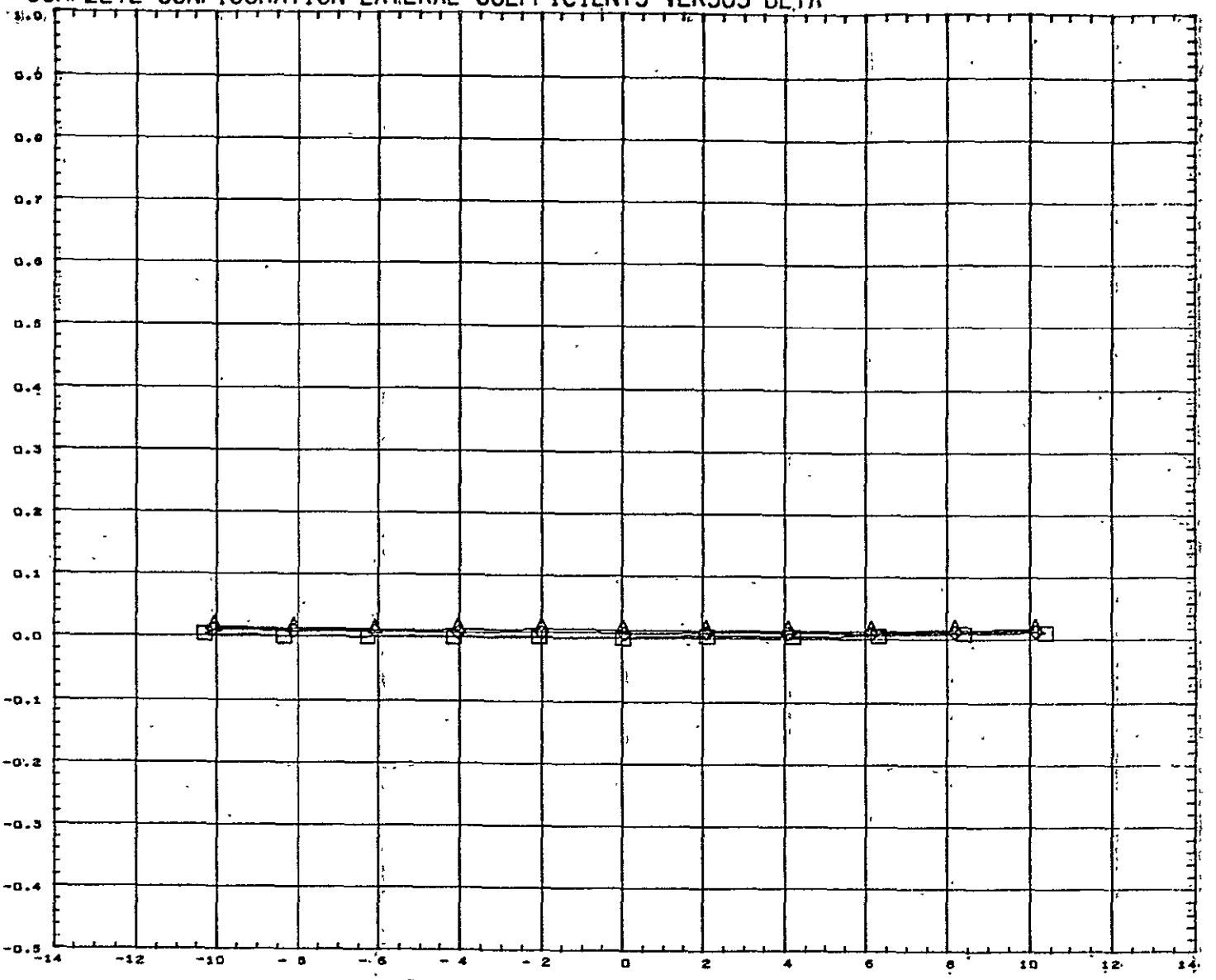


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y53)	○	MSFC 481 GD/C(BOOSTER)B19W14C4AV7	0.000	0.000	0.000	
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	15.000	0.000	0.000	
(F28Y41)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	35.000	0.000	0.000	

MACH 1.956

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA



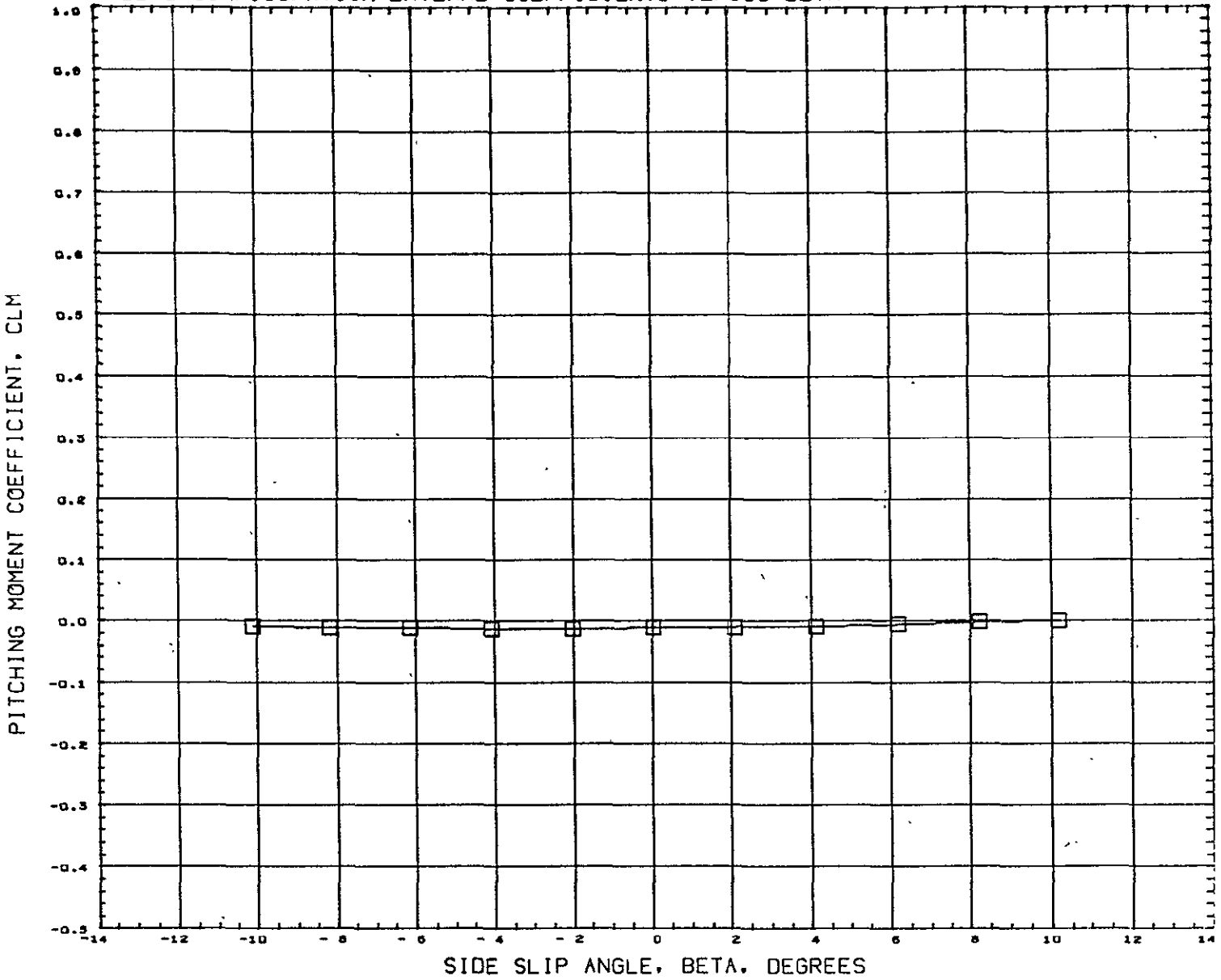
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F28Y53)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y21)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(F28Y31)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A
(F28Y41)	□	MSFC481, GD/C(BOOSTER)B19W14C4A

MACH 2.990

ALPHA	CANARD	ELEVON	RUDDER
0.000	0.000	0.000	
15.000	0.000	0.000	0.000
15.000	0.000	0.000	
35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

COMPLETE CONFIGURATION LATERAL COEFFICIENTS VERSUS BETA

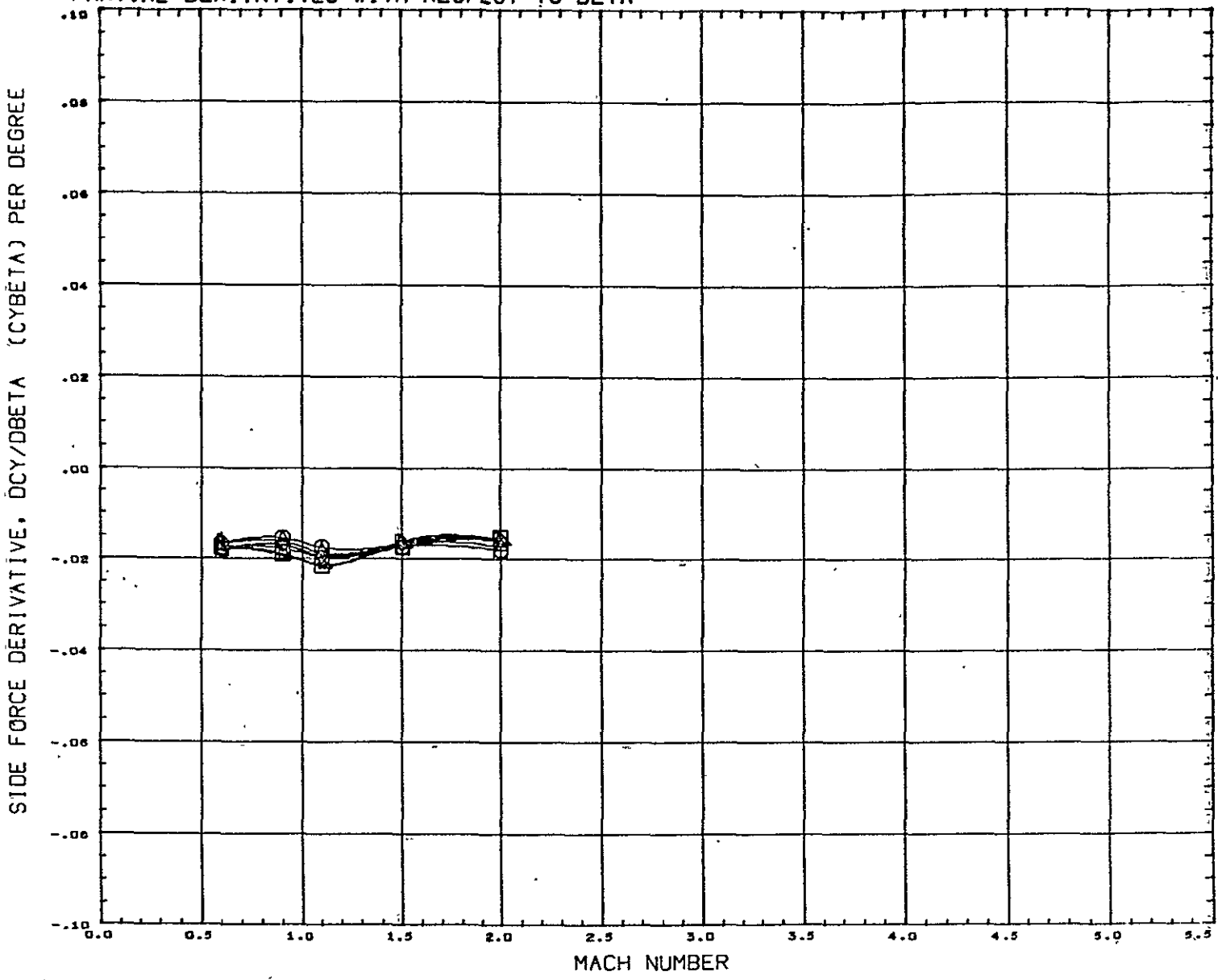


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y33)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	
(F26Y21)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000
(F26Y31)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	
(F26Y41)	□	MSFC481 GD/C(BOOSTER)B19W14C4A	35.000	0.000	0.000	

REFERENCE INFORMATION		
SREF	15.6360	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 4.959

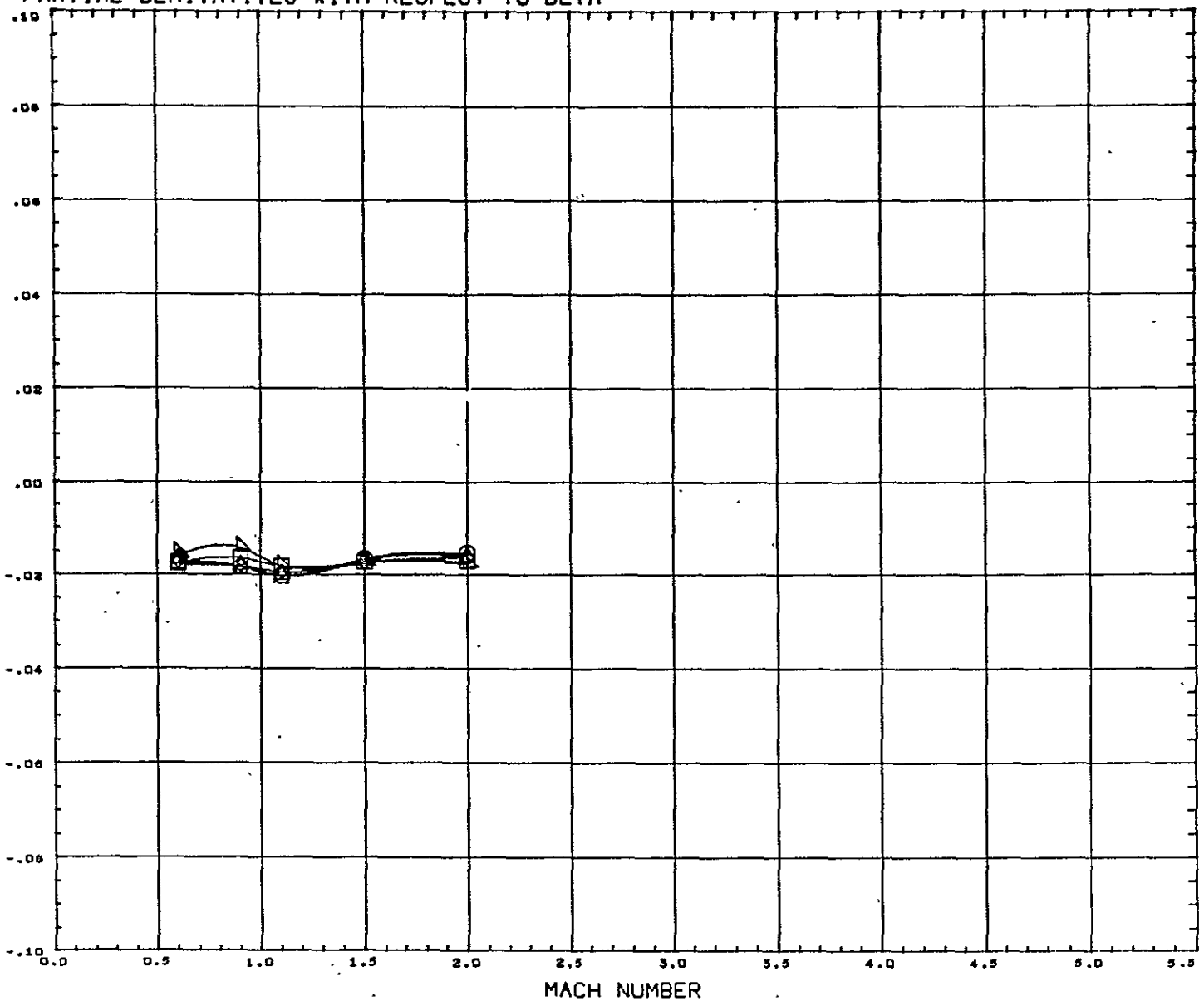
PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA		PARAMETRIC VALUES		
○	- 10.000	ALPHA	0.000	DEL	0.000
△	- 8.000	DER	0.000	DCL	0.000
◇	- 6.000	DCR	0.000	ELEVON	0.000
□	- 4.000	CANARD	0.000	AILRON	0.000
◸	- 2.000				
D	0.000	DATA HIST. CODE		MVR*EGI	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO BETA

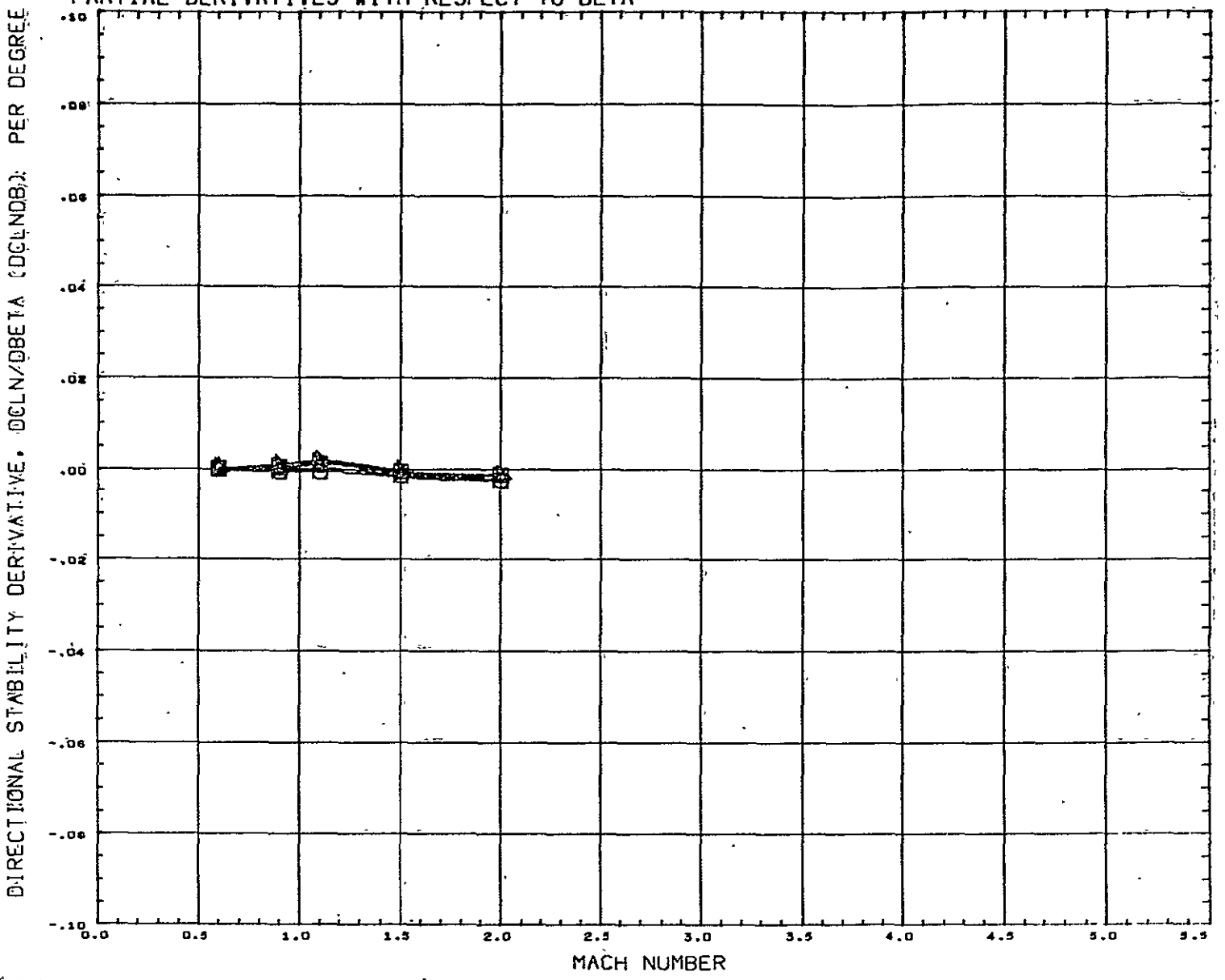


SYMBOL	BETA		PARAMETRIC VALUES		
○	2.000	ALPHA	0.000	DEL	0.000
△	4.000	DER	0.000	DCL	0.000
◇	6.000	DCR	0.000	ELEVON	0.000
□	8.000	CANARD	0.000	AILRON	0.000
	10.000				

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

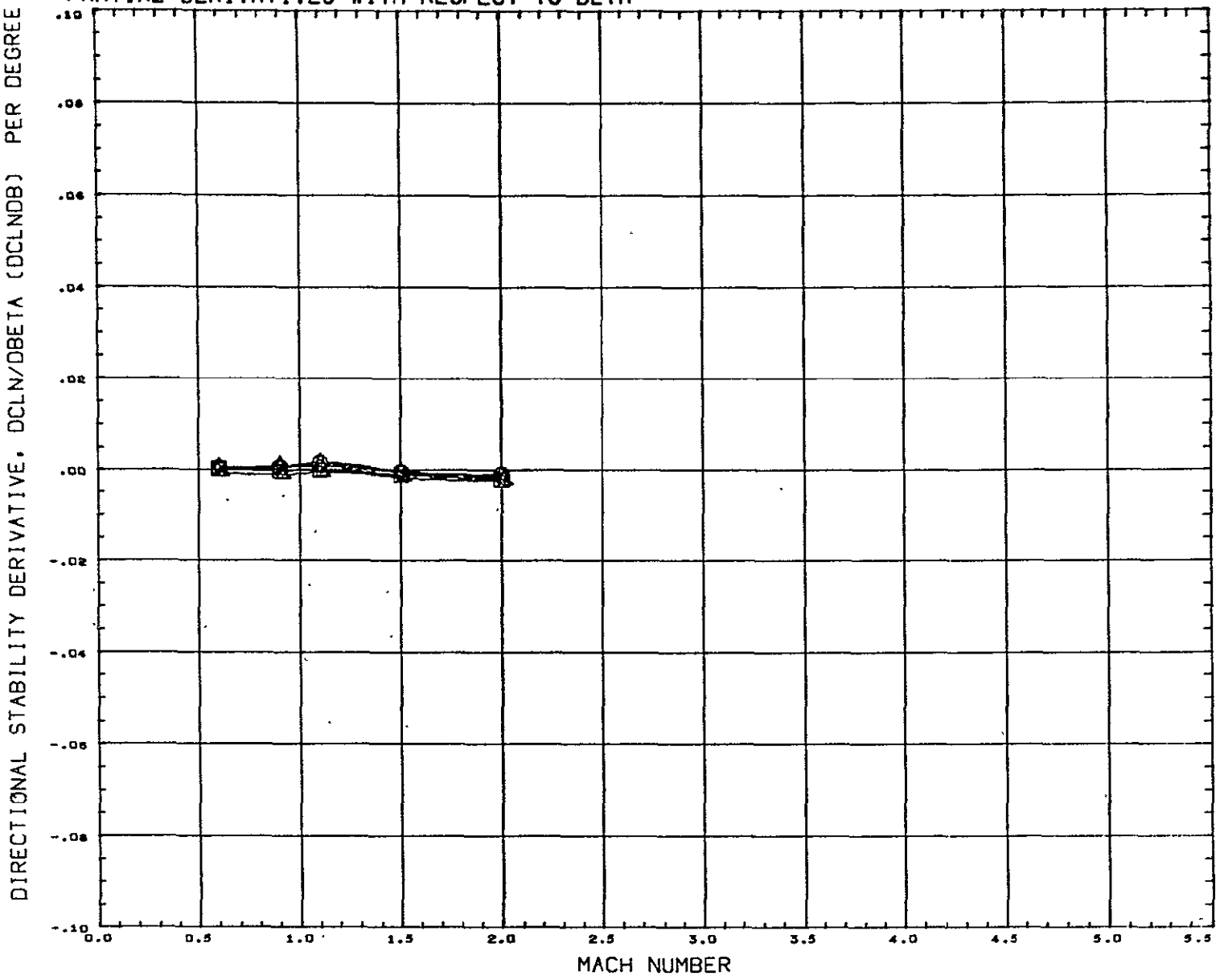
PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA		PARAMETRIC VALUES		
D	- 10.000	ALPHA	0.000	DEL	0.000
□	- 8.000	DER	0.000	DCL	0.000
◇	- 6.000	DCR	0.000	ELEVON	0.000
△	- 4.000	CANARD	0.000	AILRON	0.000
○	- 2.000				
	0.000	DATA HIST. CODE		MVR*EGI	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA
○	2.000
△	4.000
◇	6.000
□	8.000
▽	10.000

PARAMETRIC VALUES

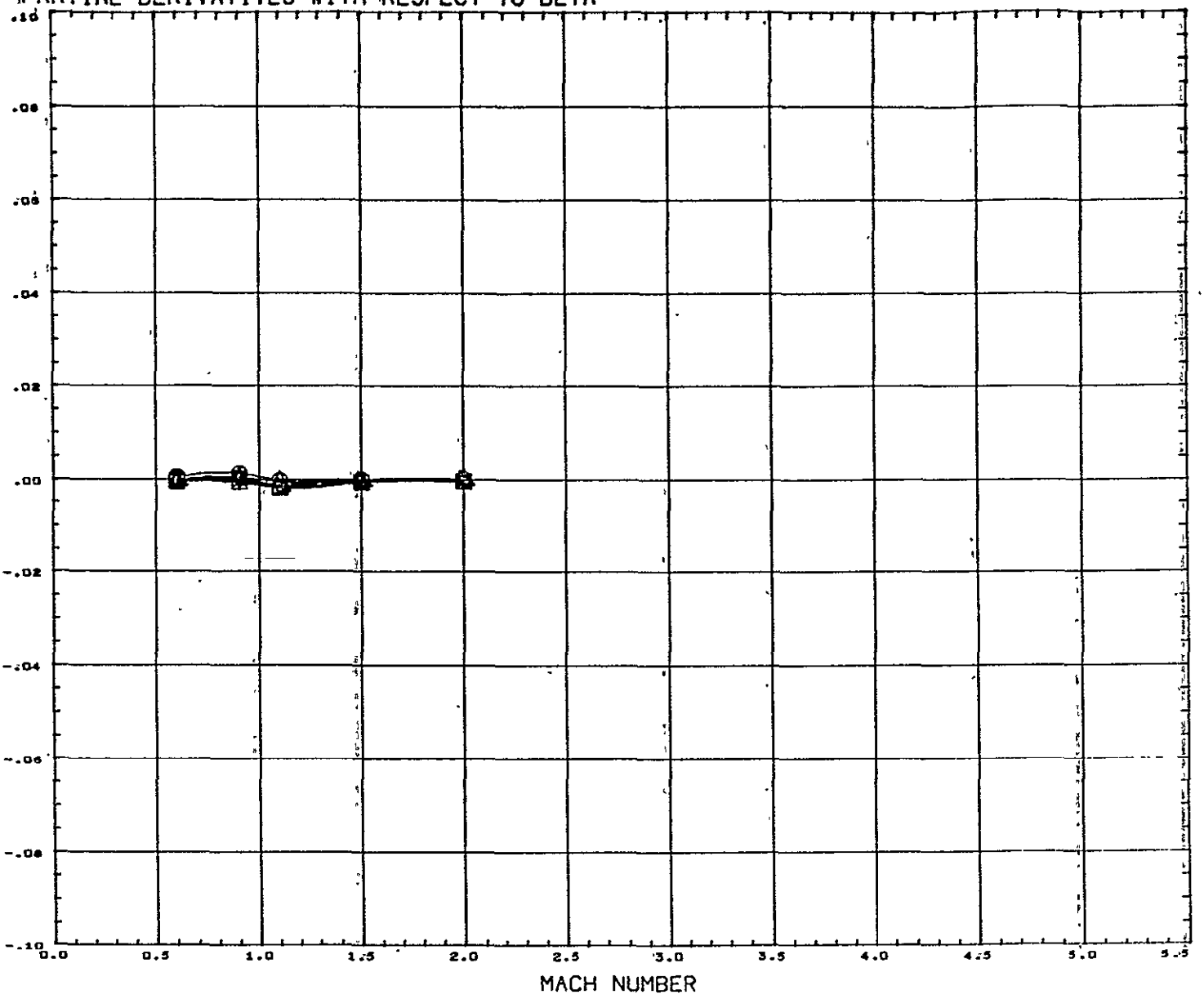
ALPHA	0.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO BETA

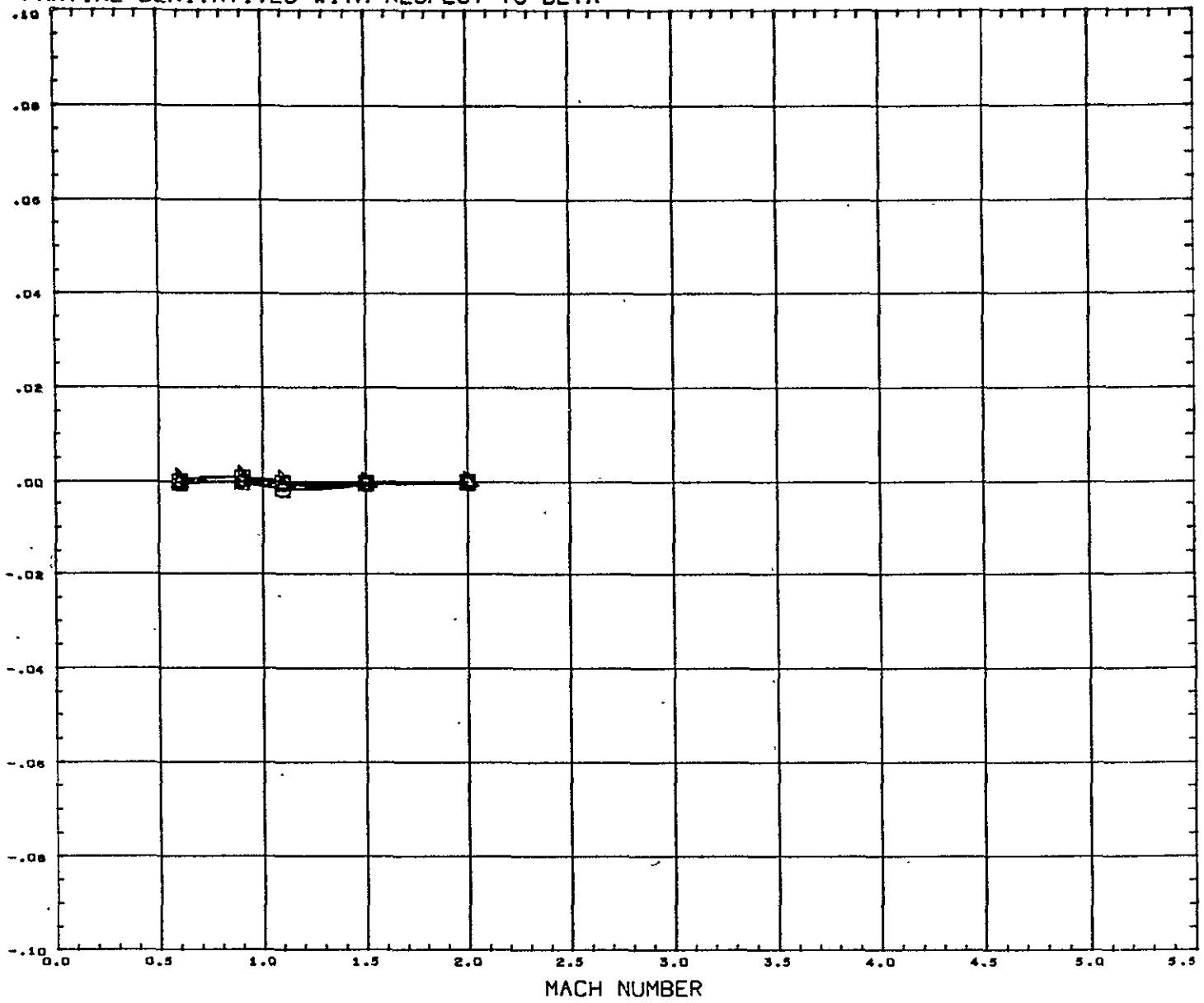


SYMBOL	BETA		PARAMETRIC VALUES		
○	- 10.000	ALPHA	0.000	DEL	0.000
△	- 8.000	DER	0.000	DCL	0.000
◇	- 6.000	DCR	0.000	ELEVON	0.000
□	- 4.000	CANARD	0.000	AILRON	0.000
▽	- 2.000				
D	0.000	DATA HIST. CODE		MVR*EGI	

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA
▽	2.000
△	4.000
◇	6.000
□	8.000
○	10.000

PARAMETRIC VALUES

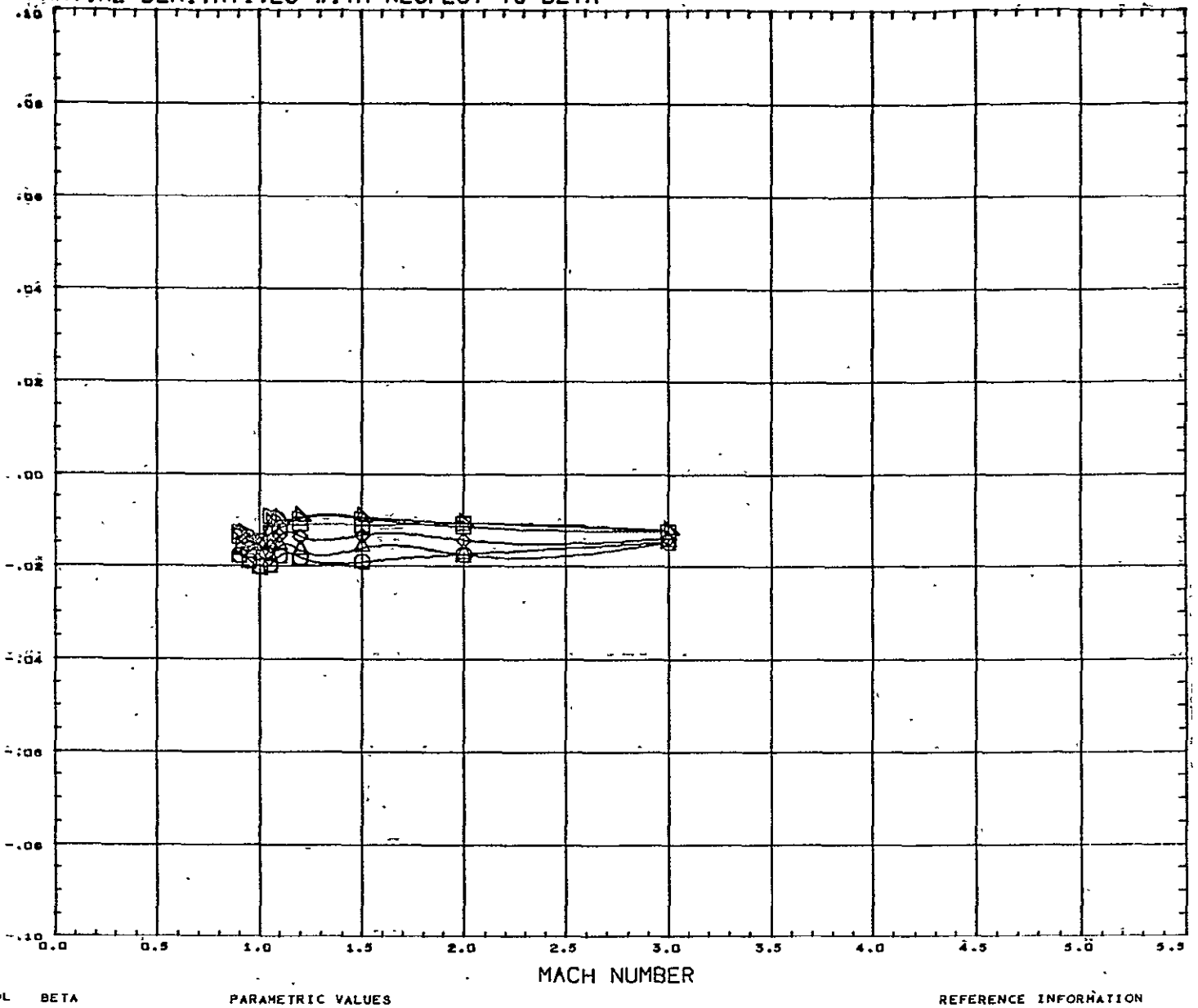
ALPHA	0.000	DEL	0.000	
DER	0.000	DCL	0.000	
DCR	0.000	ELEVON	0.000	
CANARD	0.000	AILRON	0.000	

DATA HIST. CODE HVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

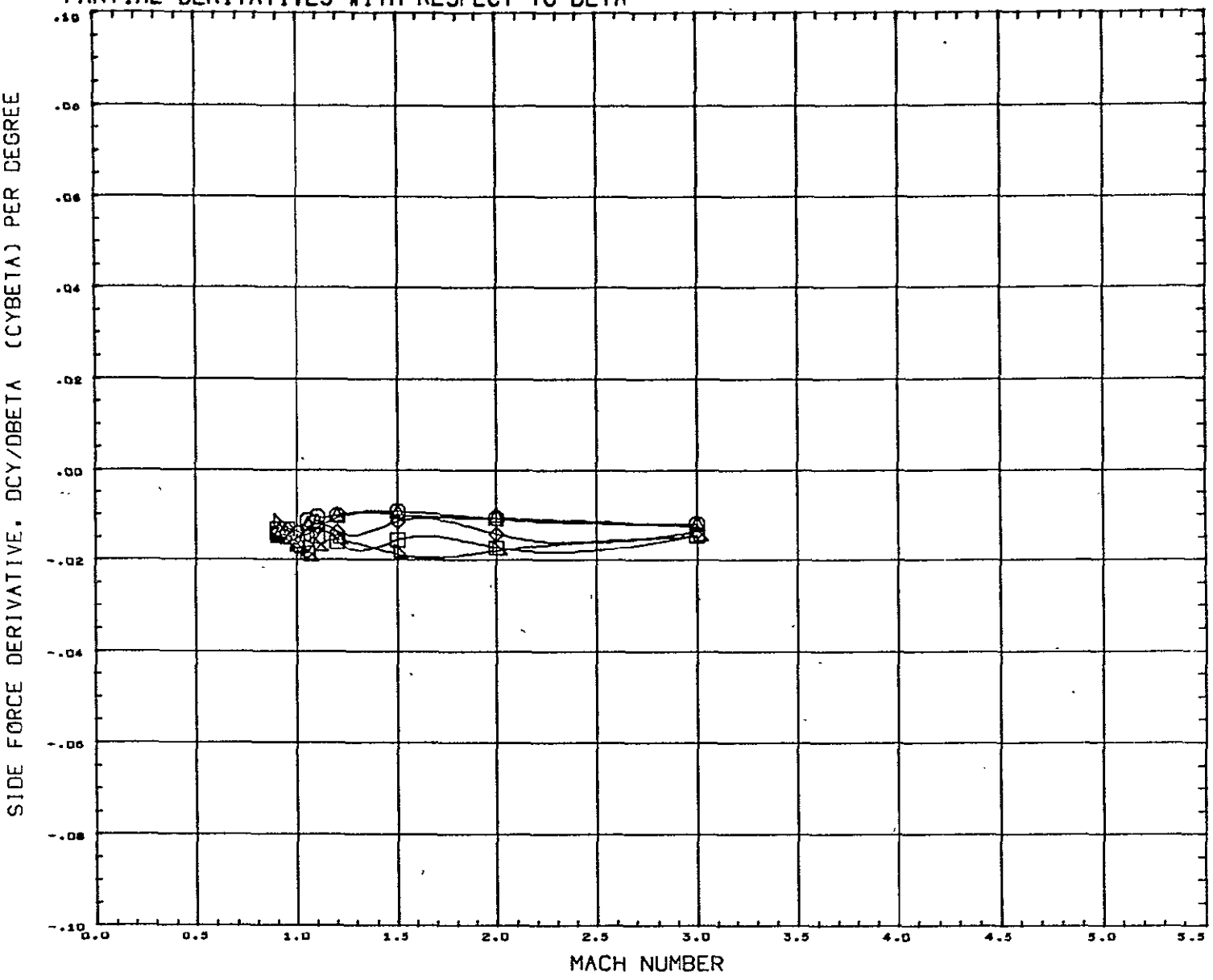
PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA		PARAMETRIC VALUES		
○	- 10.000	ALPHA	15.000	DEL	0.000
△	- 8.000	DER	0.000	DCL	0.000
◇	- 6.000	DCR	0.000	ELEVON	0.000
□	- 4.000	CANARD	0.000	RUDDER	0.000
▽	- 2.000	AILRON	0.000		
	0.000	DATA HIST. CODE	MVR*EGI		

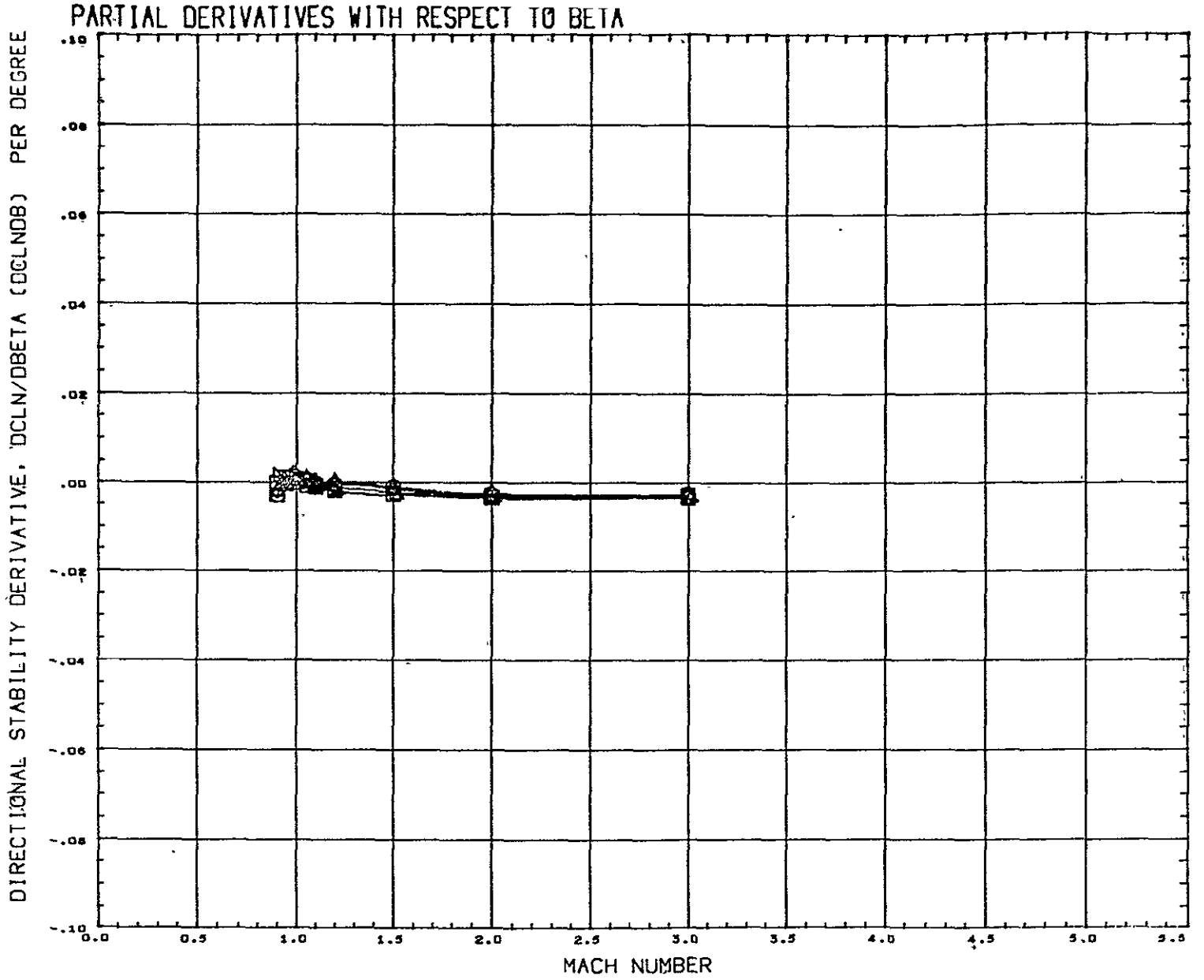
REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA		PARAMETRIC VALUES		
○	2.000	ALPHA	15.000.	DEL	0.000
△	4.000	DER	0.000	DCL	0.000
◇	6.000	DCR	0.000	ELEVON	0.000
□	8.000	CANARD	0.000	RUDDER	0.000
	10.000	AILRON	0.000		
		DATA HIST. CODE	HVR*EGI		

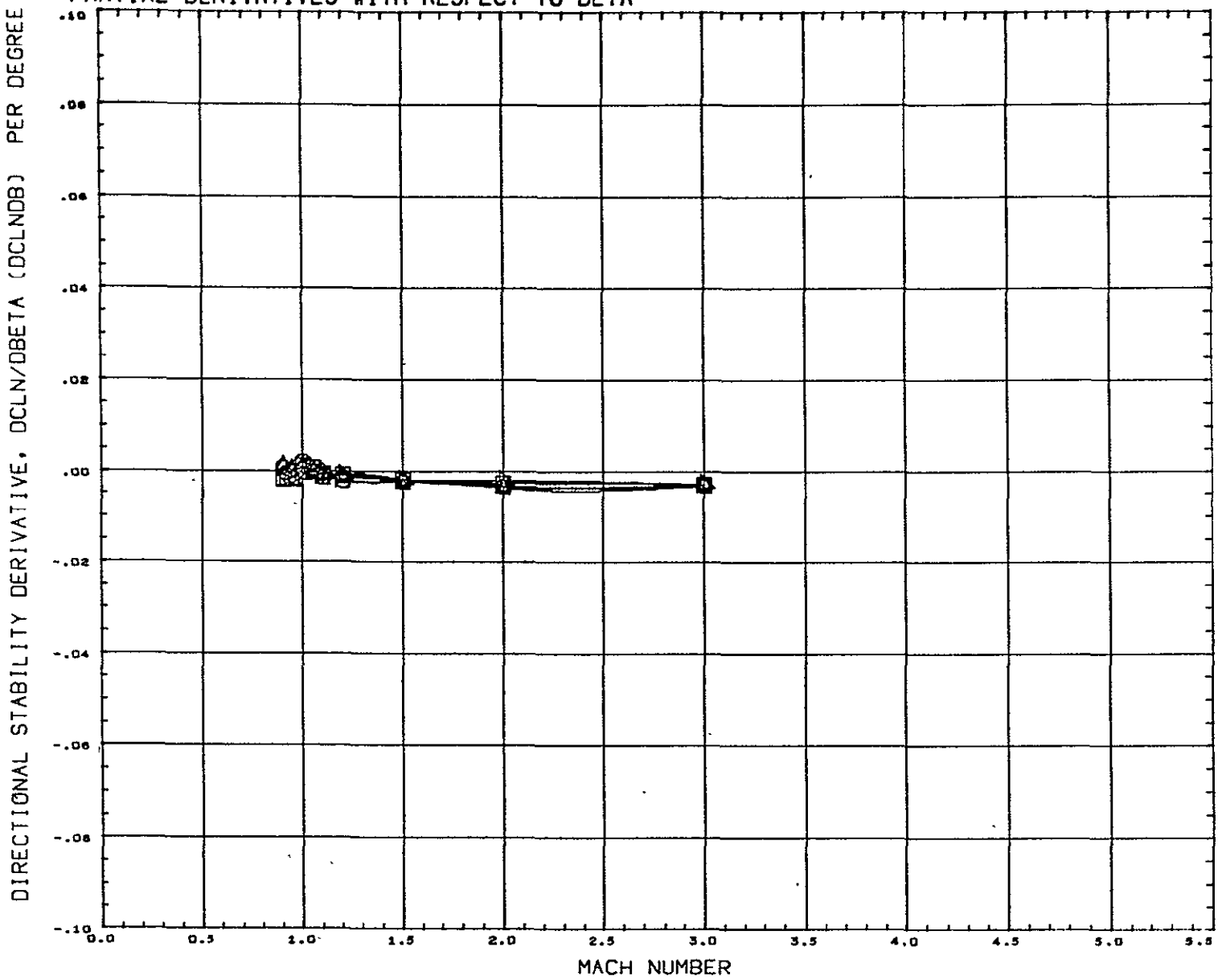
REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	



SYMBOL	BETA		PARAMETRIC VALUES		
◇	- 10.000	ALPHA	15.000	DEL	0.000
△	- 8.000	DER	0.000	DCL	0.000
□	- 6.000	DCR	0.000	ELEVON	0.000
▽	- 4.000	CANARD	0.000	RUDDER	0.000
○	- 2.000	AILRON	0.000		
	0.000	DATA HIST. CODE	MVR*EGI		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	5.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA		PARAMETRIC VALUES		
○	2.000	ALPHA	15.000	DEL	0.000
△	4.000	DER	0.000	DCL	0.000
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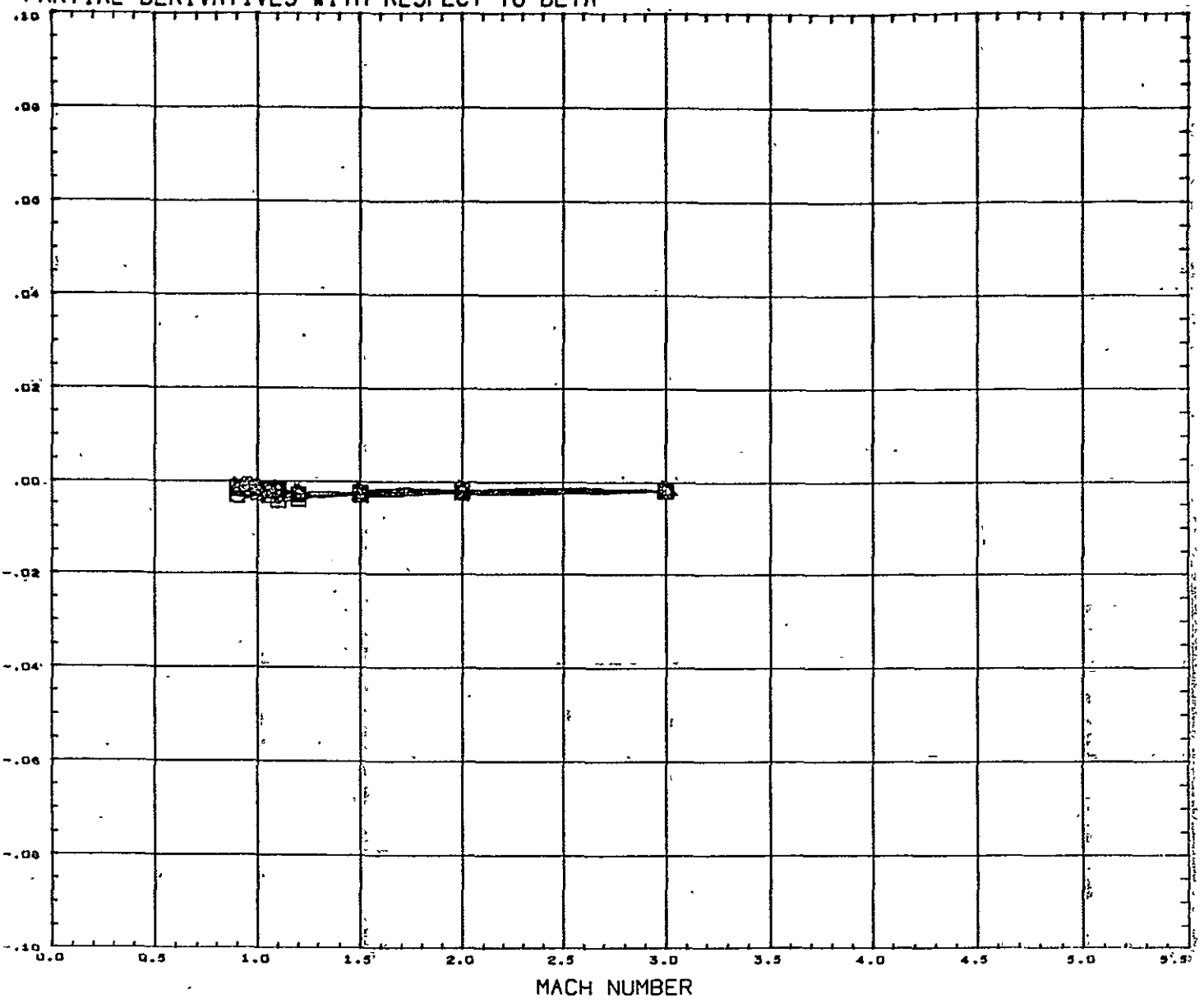
□	8.000	CANARD	0.000	RUDDER	0.000
▽	10.000	AILRON	0.000		
		DATA HIST. CODE		MVR#EGI	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

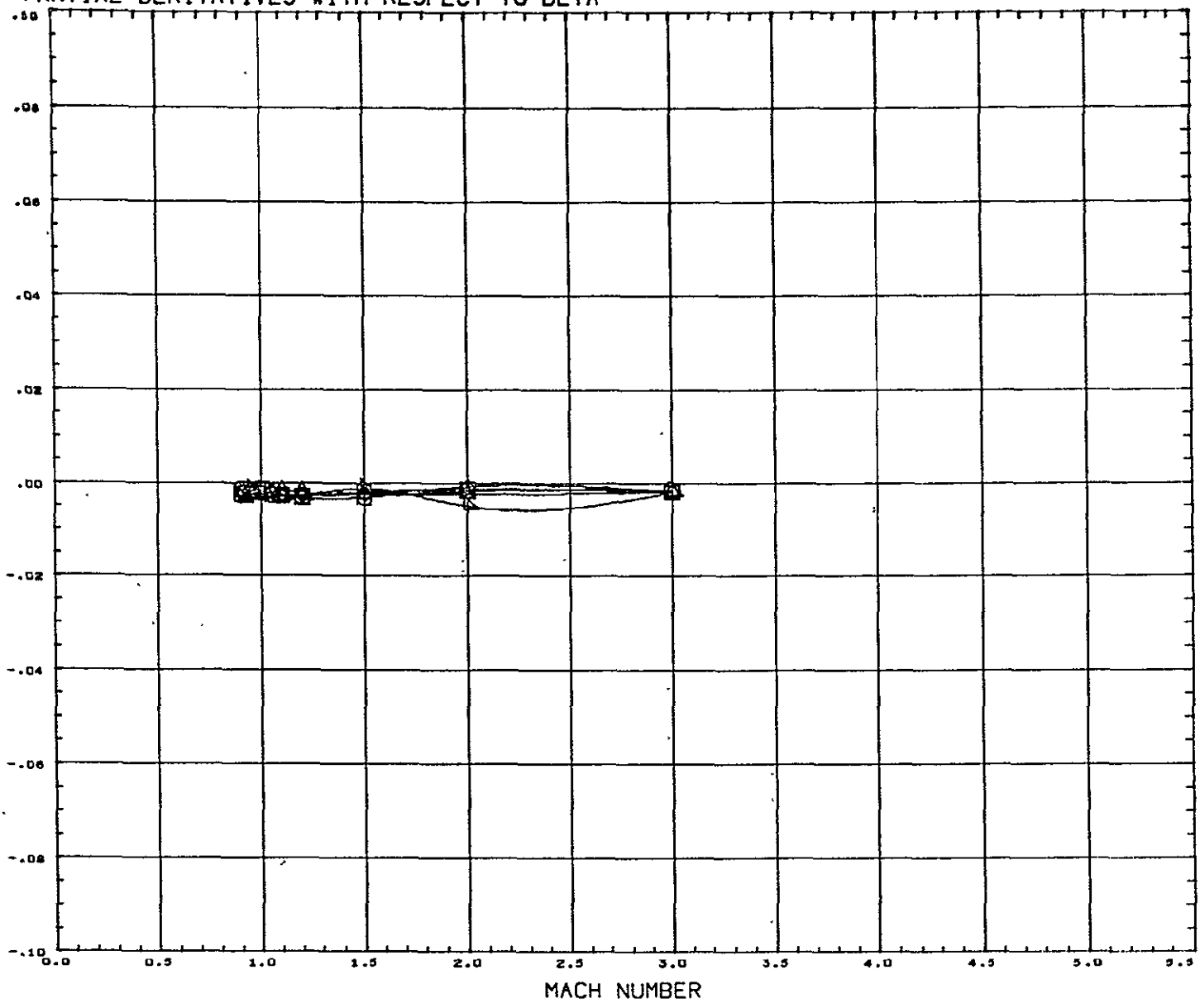
PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA		PARAMETRIC VALUES		
○	- 10.000	ALPHA	15.000	DEL	0.000
△	- 8.000	DER	0.000	DCL	0.000
◇	- 6.000	DCR	0.000	ELEVON	0.000
□	- 4.000	CANARD	0.000	RUDDER	0.000
▽	- 2.000	AILRON	0.000		
D	0.000	DATA HIST. CODE	HVR*EGI		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

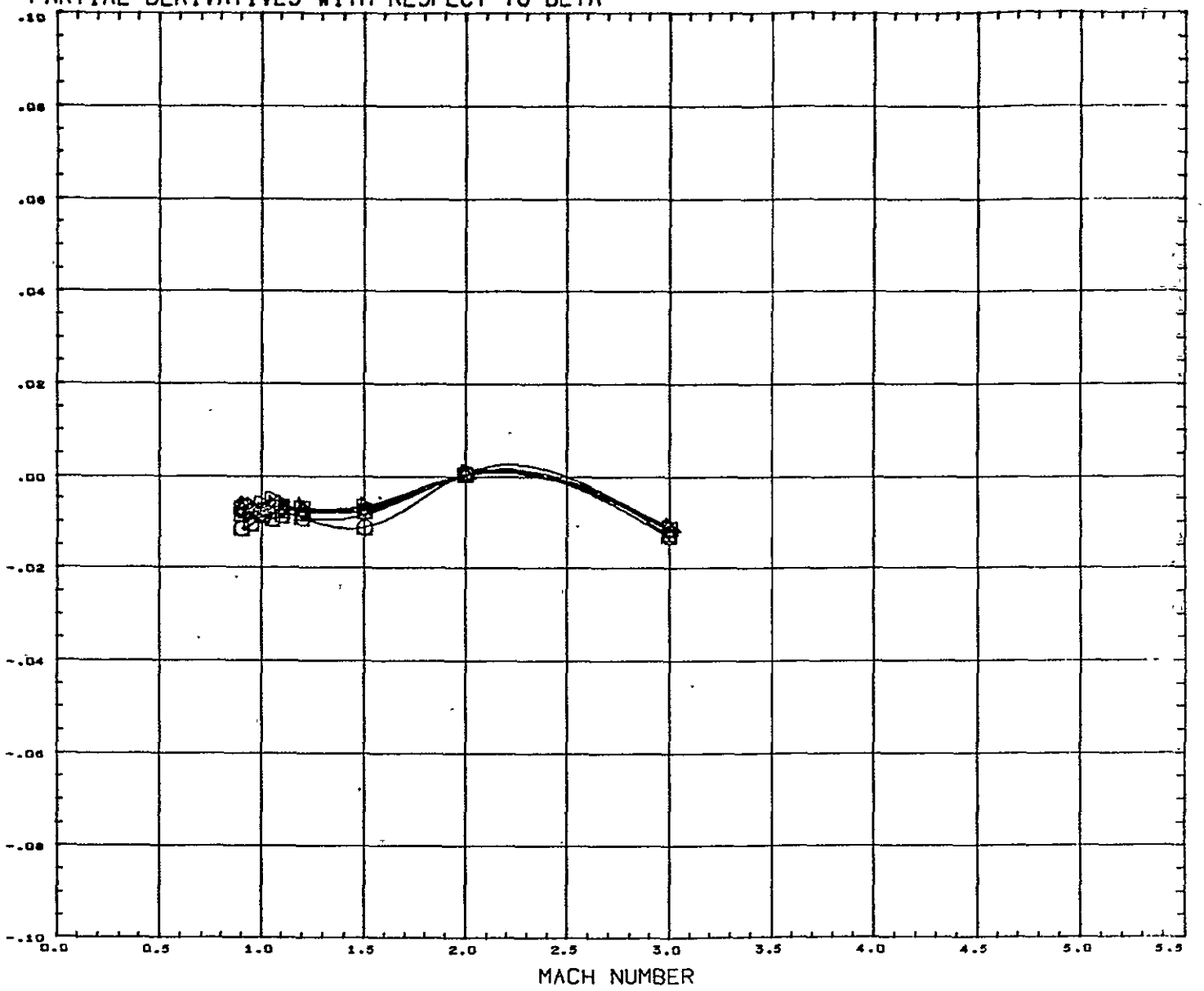
PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA		PARAMETRIC VALUES		
○	2.000	ALPHA	15.000	DEL	0.000
△	4.000	DER	0.000	DCL	0.000
◇	6.000	DCR	0.000	ELEVON	0.000
□	8.000	CANARD	0.000	RUDDER	0.000
▽	10.000	AILRON	0.000		
		DATA HIST. CODE	HVR*EGI		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA		PARAMETRIC VALUES		
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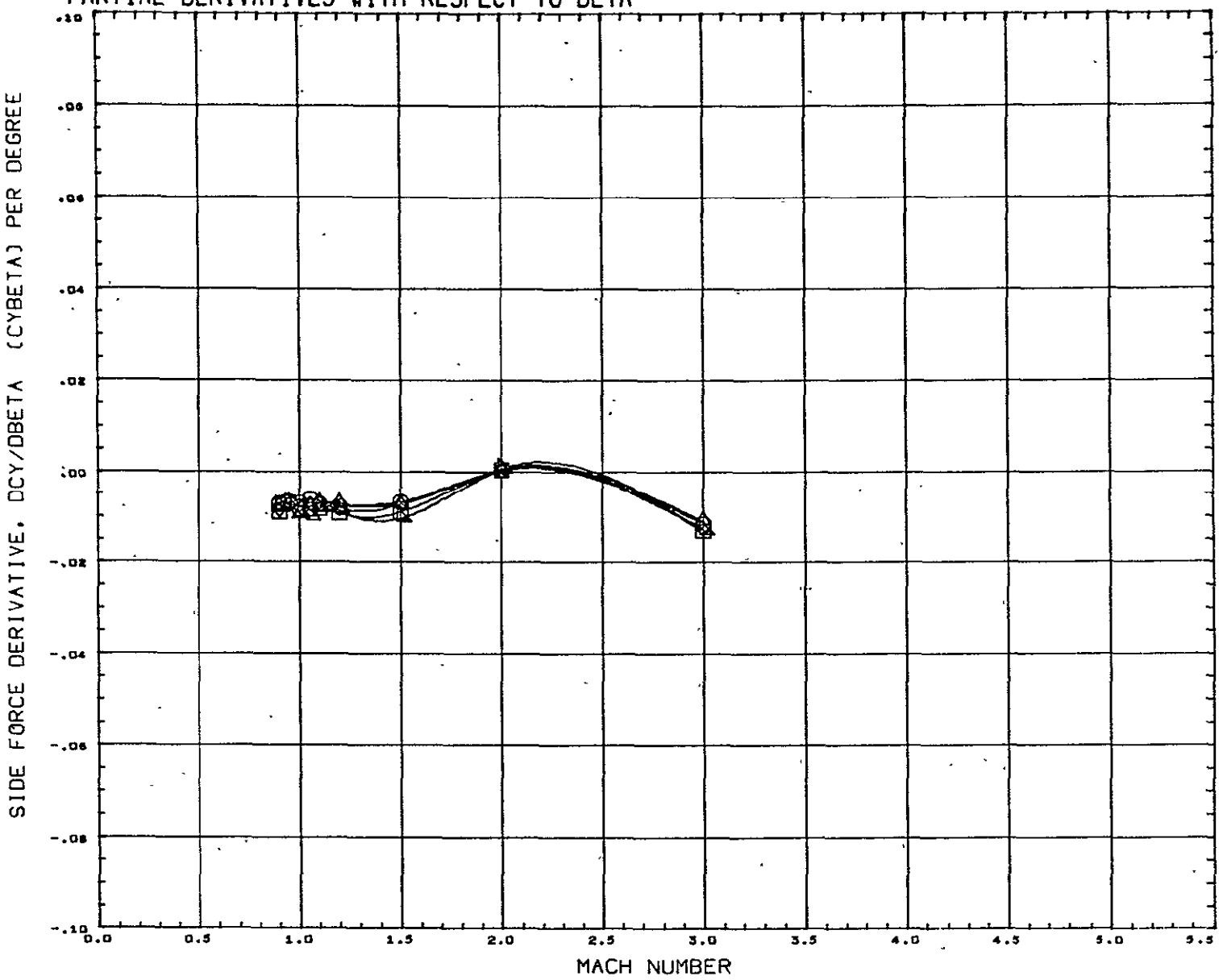
◇	- 8.000	DER	0.000	DCL	0.000
□	- 6.000	DCR	0.000	ELEVON	0.000
△	- 4.000	CANARD	0.000	AILRON	0.000
	- 2.000				
D	0.000.	DATA HIST. CODE	MVR*E&I		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA
○	2.000
△	4.000
◇	6.000
□	8.000
▷	10.000

PARAMETRIC VALUES

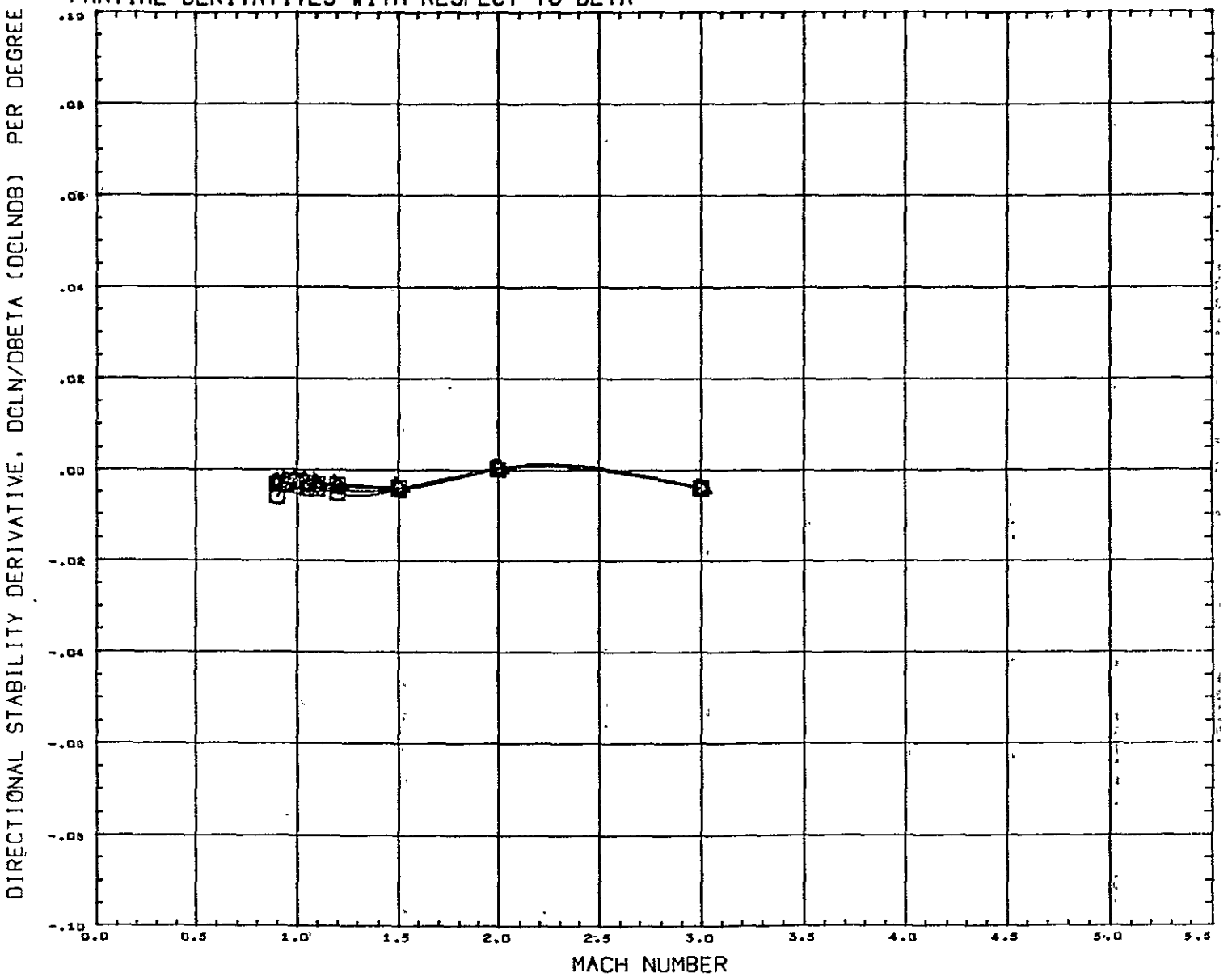
ALPHA	15.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

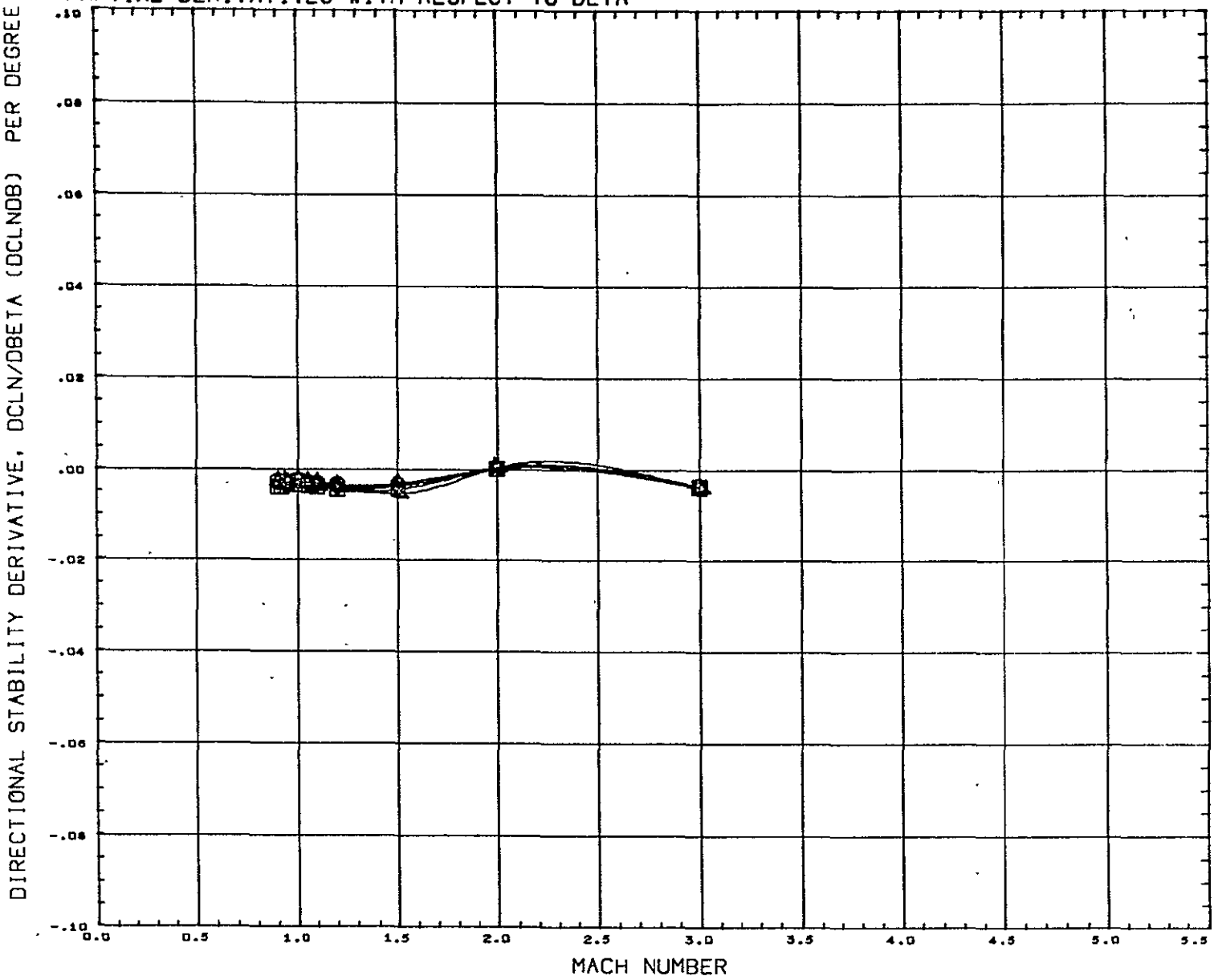
PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA		PARAMETRIC VALUES		
	- 10.000	ALPHA	15.000	DEL	0.000
	- 8.000	DER	0.000	DCL	0.000
	- 6.000	DCR	0.000	ELEVON	0.000
	- 4.000	CANARD	0.000	AILRON	0.000
	- 2.000				
	0.000	DATA HIST. CODE	MVR#EGI		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO BETA



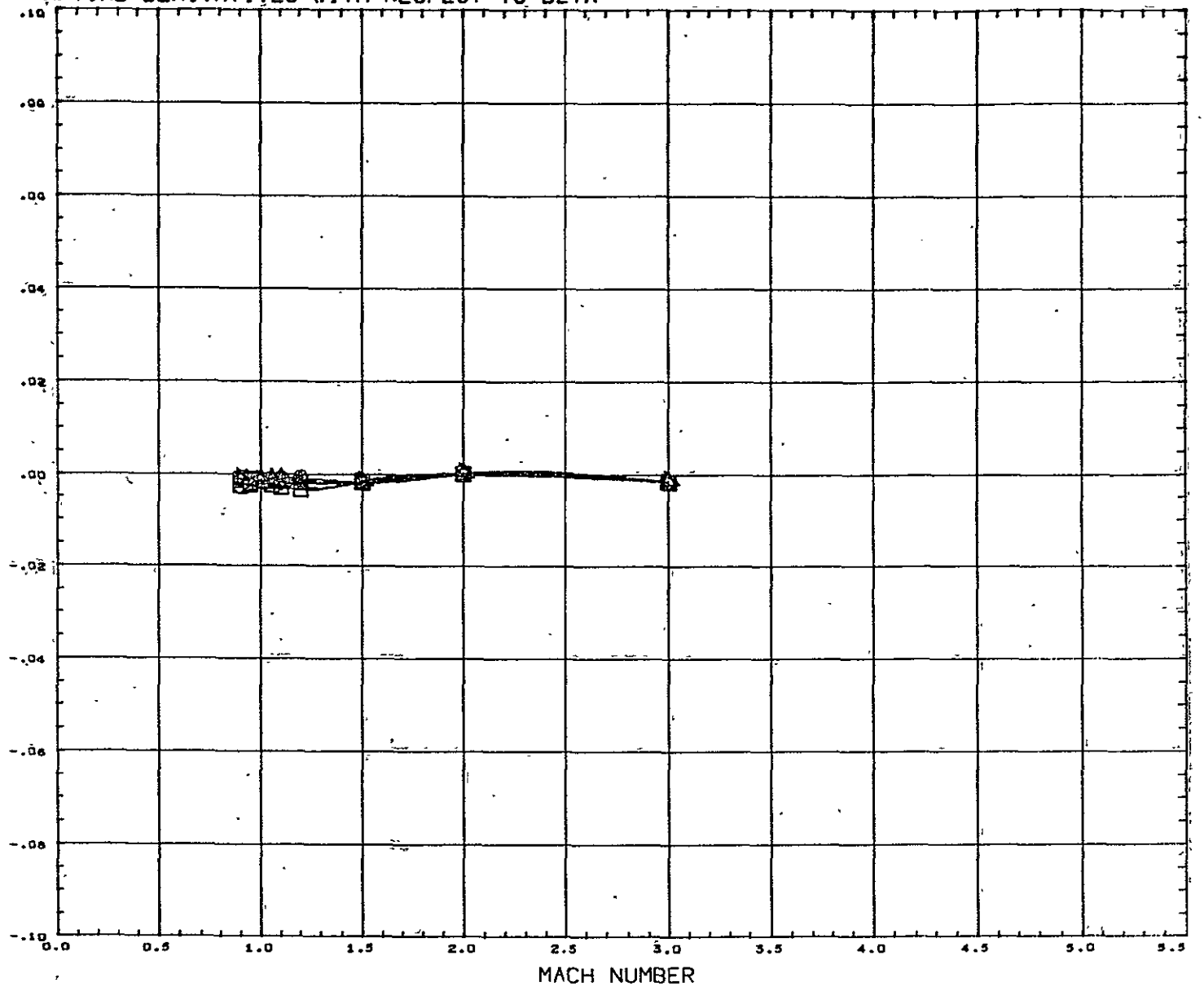
SYMBOL	BETA		PARAMETRIC VALUES		
○	2.000	ALPHA	15.000	DEL	0.000
△	4.000	DER	0.000	DCL	0.000
◇	6.000	DCR	0.000	ELEVON	0.000
□	8.000	CANARD	0.000	AILRON	0.000
▽	10.000				

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA		PARAMETRIC VALUES		
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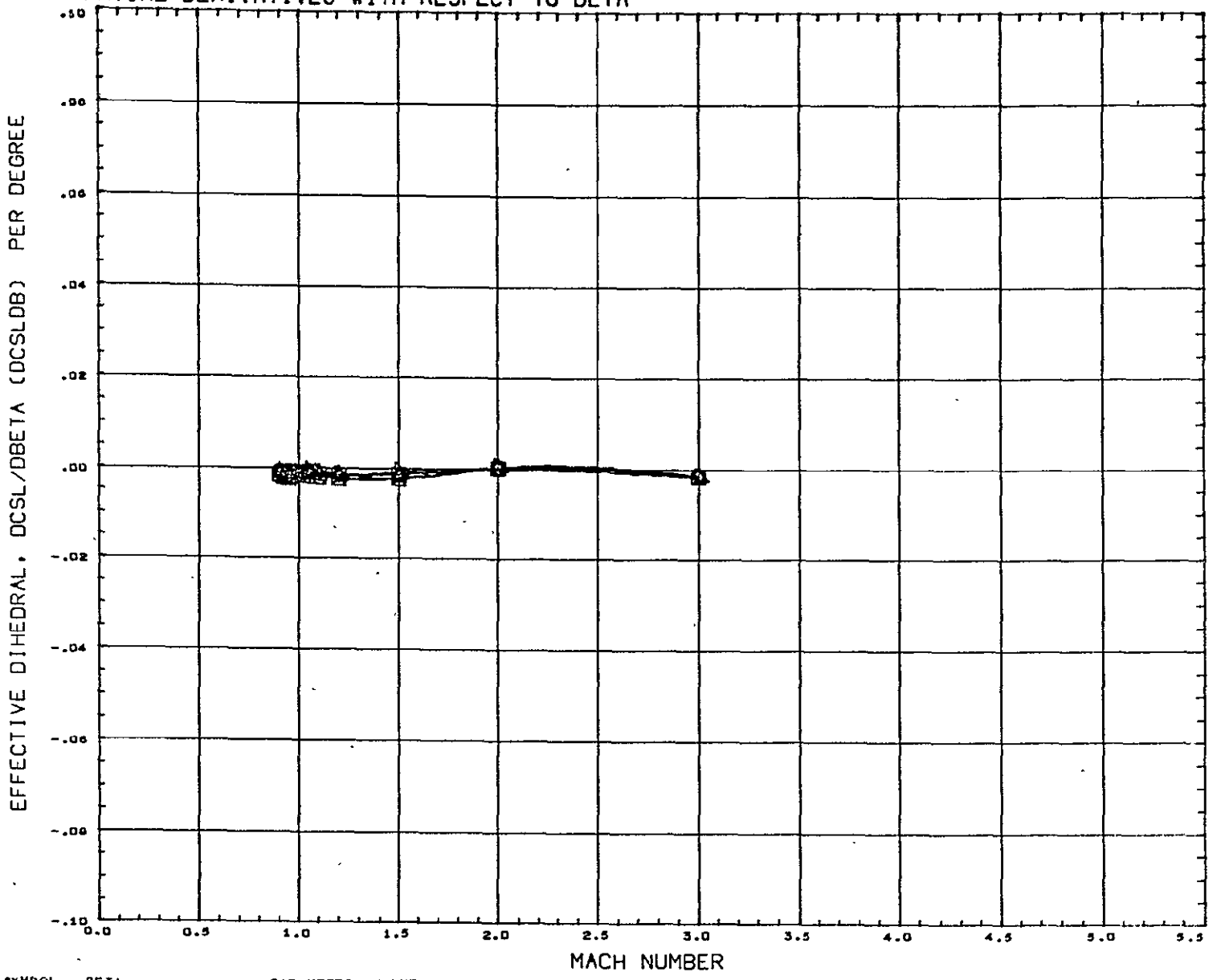
△	= 8.000	DER	0.000	DCL	0.000
□	= 6.000	DCR	0.000	ELEVON	0.000
◇	= 4.000	CANARD	0.000	AILRON	0.000
▽	= 2.000				
	0.000	DATA HIST. CODE	MVR*EGI		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA
○	2.000
△	4.000
◇	6.000
□	8.000
▽	10.000

PARAMETRIC VALUES

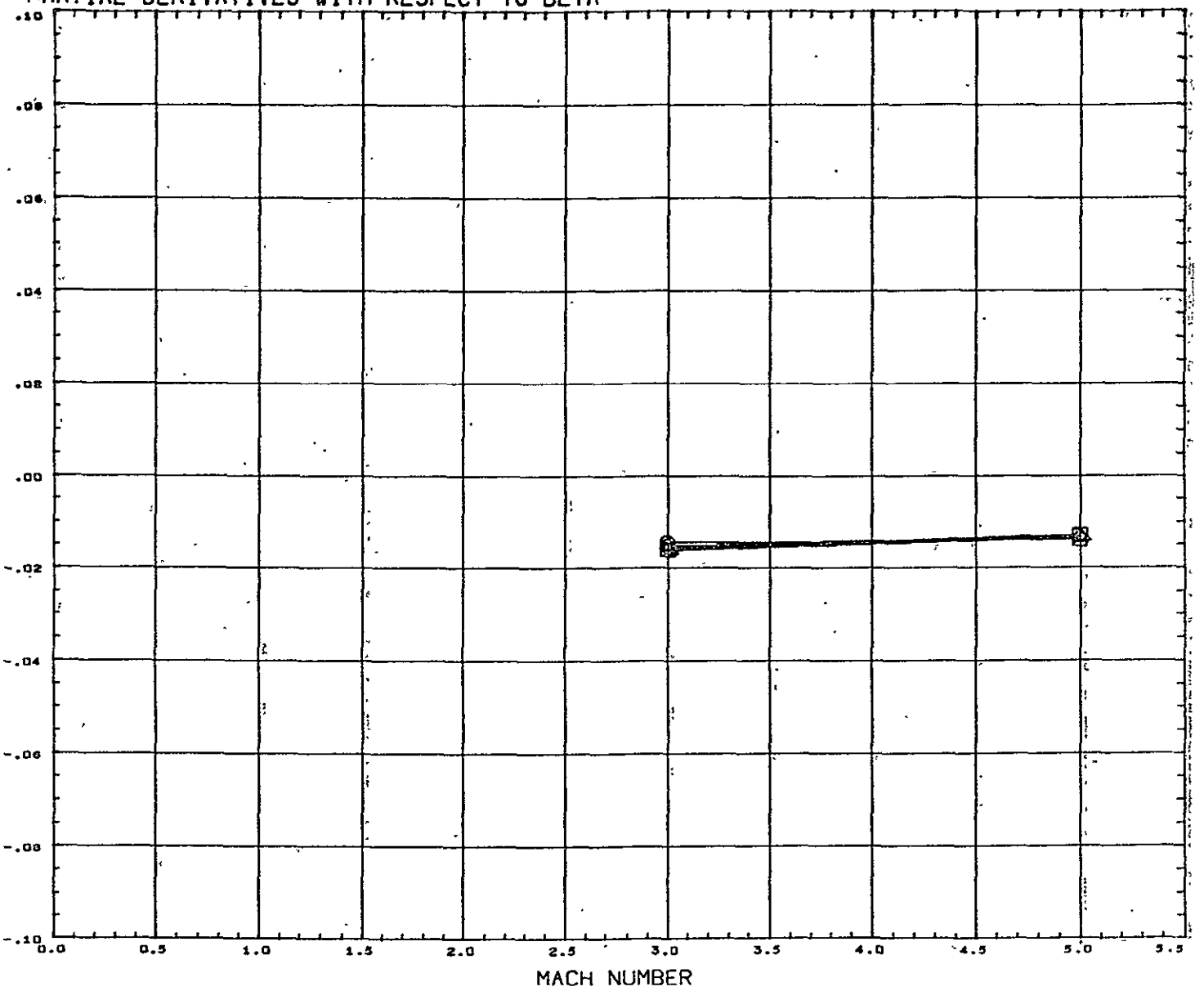
ALPHA	15.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE HVR#EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

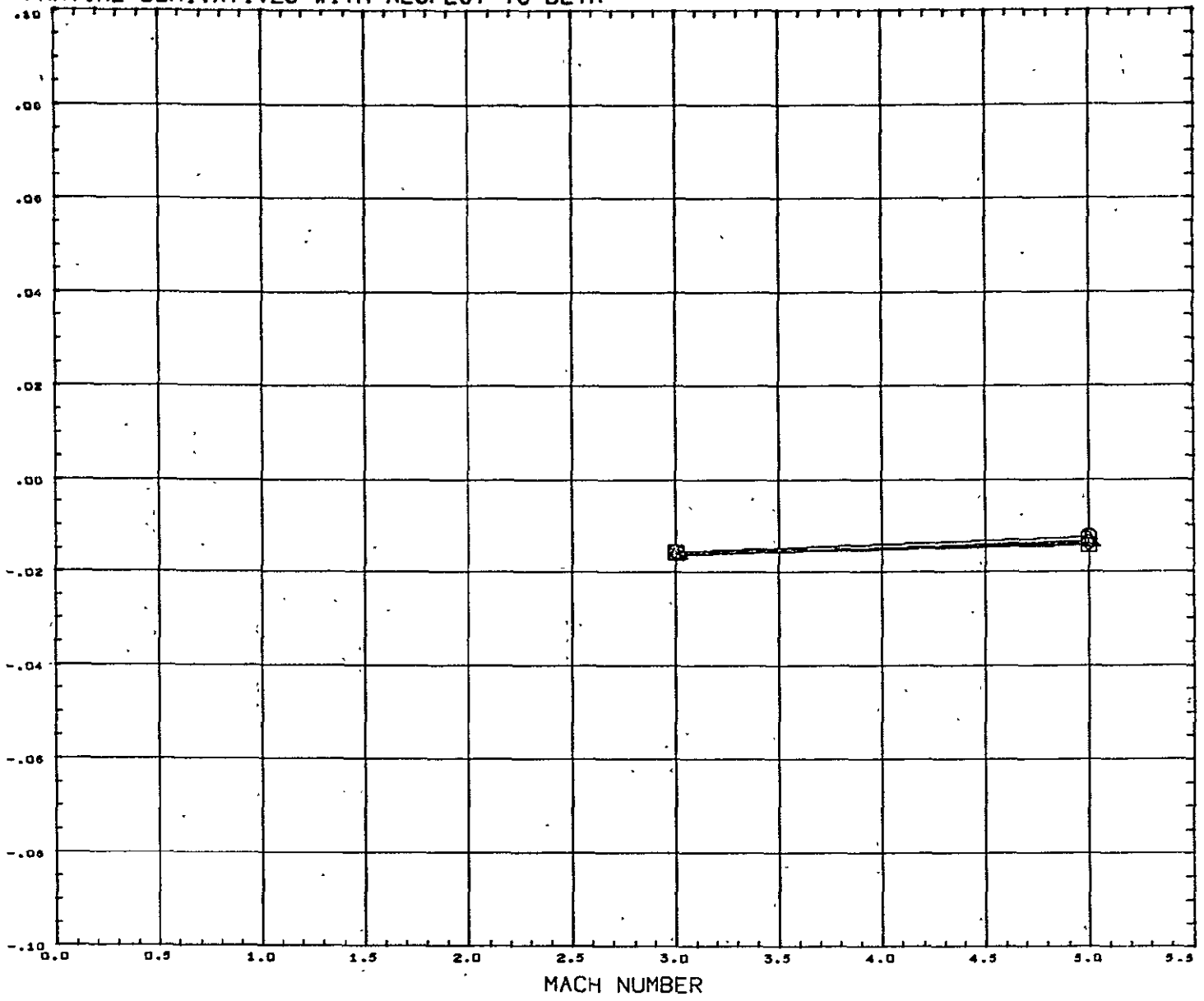
PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA	PARAMETRIC VALUES			
○	- 10.000	ALPHA	35.000	DEL	0.000
△	- 8.000	DER	0.000	DCL	0.000
□	- 6.000	DCR	0.000	ELEVON	0.000
◇	- 4.000	CANARD	0.000	AILRON	0.000
▱	- 2.000				
D	0.000	DATA HIST. CODE		MVR*EGI	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0055	

PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA
○	2.000
△	4.000
◇	6.000
□	8.000
▽	10.000

PARAMETRIC VALUES

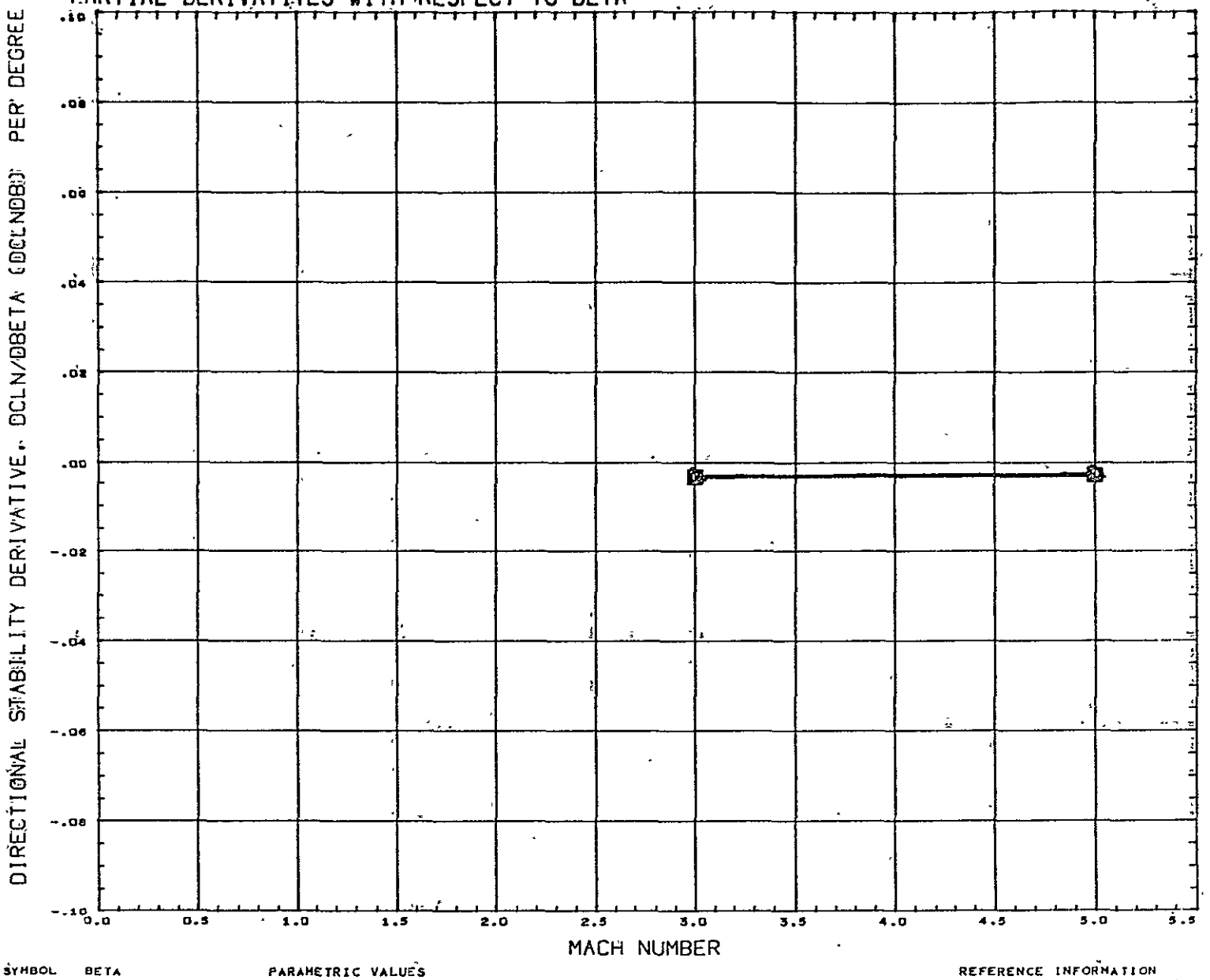
ALPHA	35.000	DEL	0.000
DER	0.000	DCL	0.000
DCR	0.000	ELEVON	0.000
CANARD	0.000	AILRON	0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

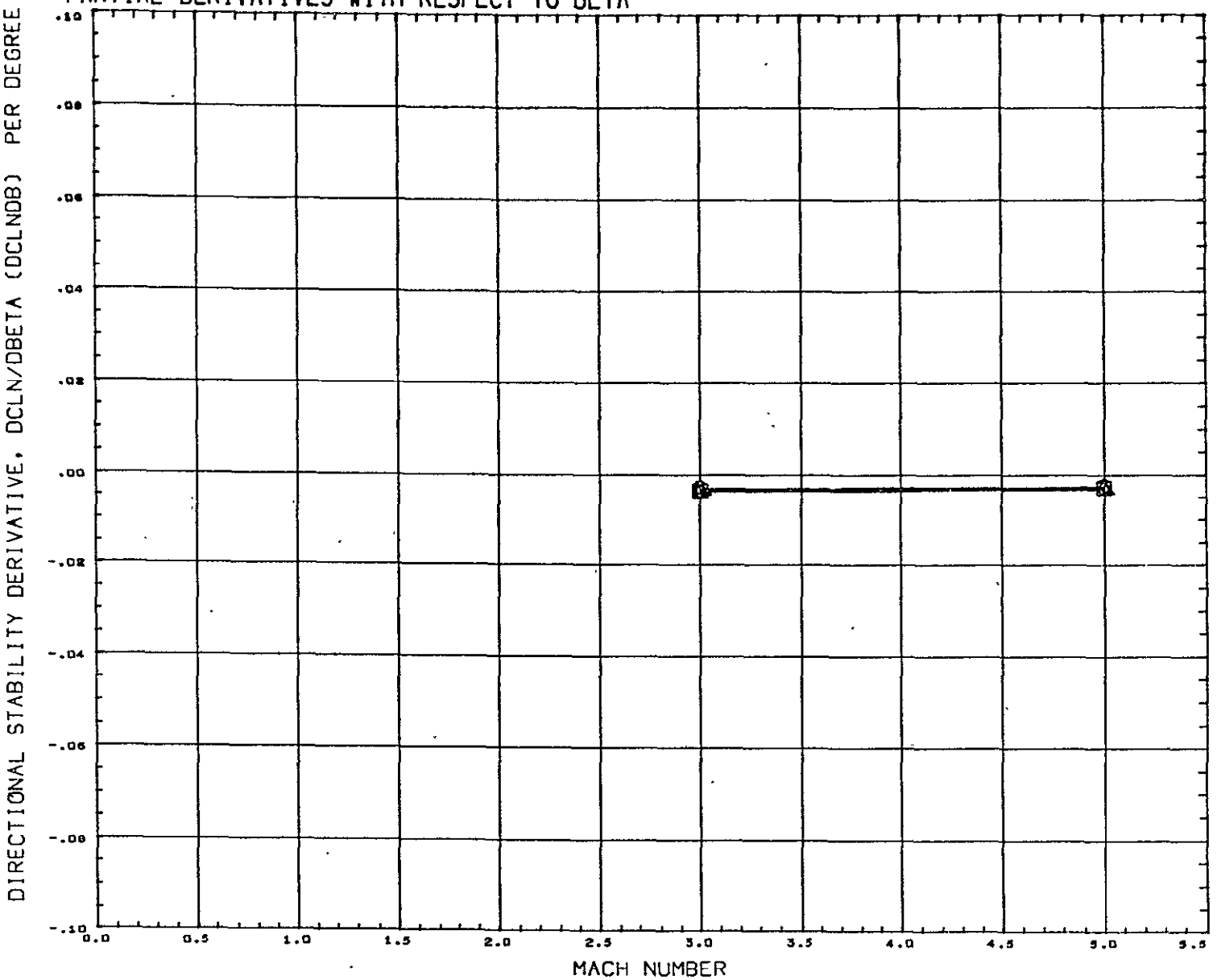
PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA		PARAMETRIC VALUES		
○	- 10.000	ALPHA	35.000	DEL	0.000
△	- 8.000	DER	0.000	DCL	0.000
□	- 6.000	DCR	0.000	ELEVON	0.000
◇	- 4.000	CANARD	0.000	AILRON	0.000
▽	- 2.000				
	0.000	DATA HIST. CODE	MVR*EGI		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA
○	2.000
△	4.000
◇	6.000
□	8.000
▽	10.000

PARAMETRIC VALUES

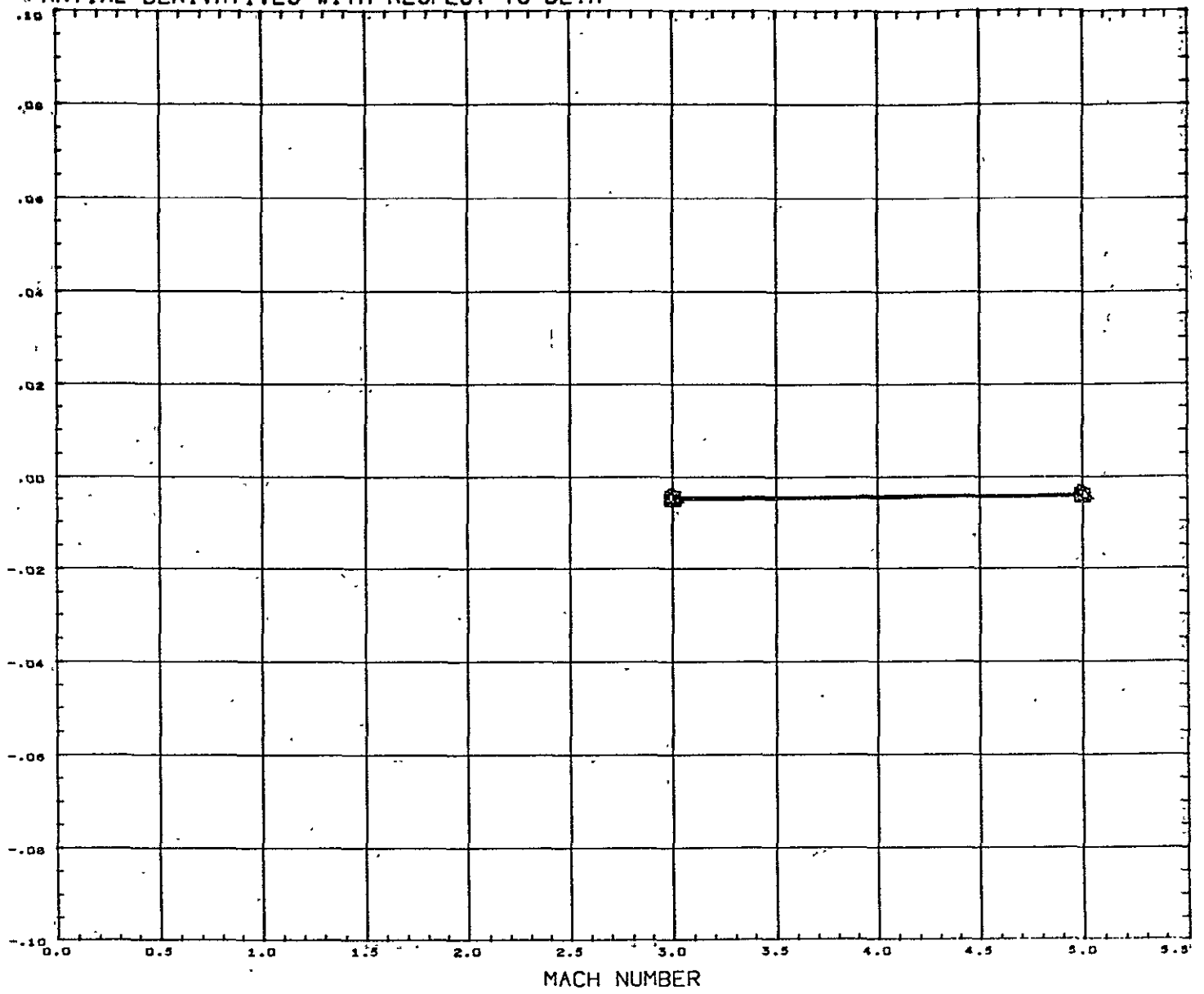
ALPHA	35.000	DEL		0.000
DER	0.000	DCL		0.000
DCR	0.000	ELEVON		0.000
CANARD	0.000	AILRON		0.000

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

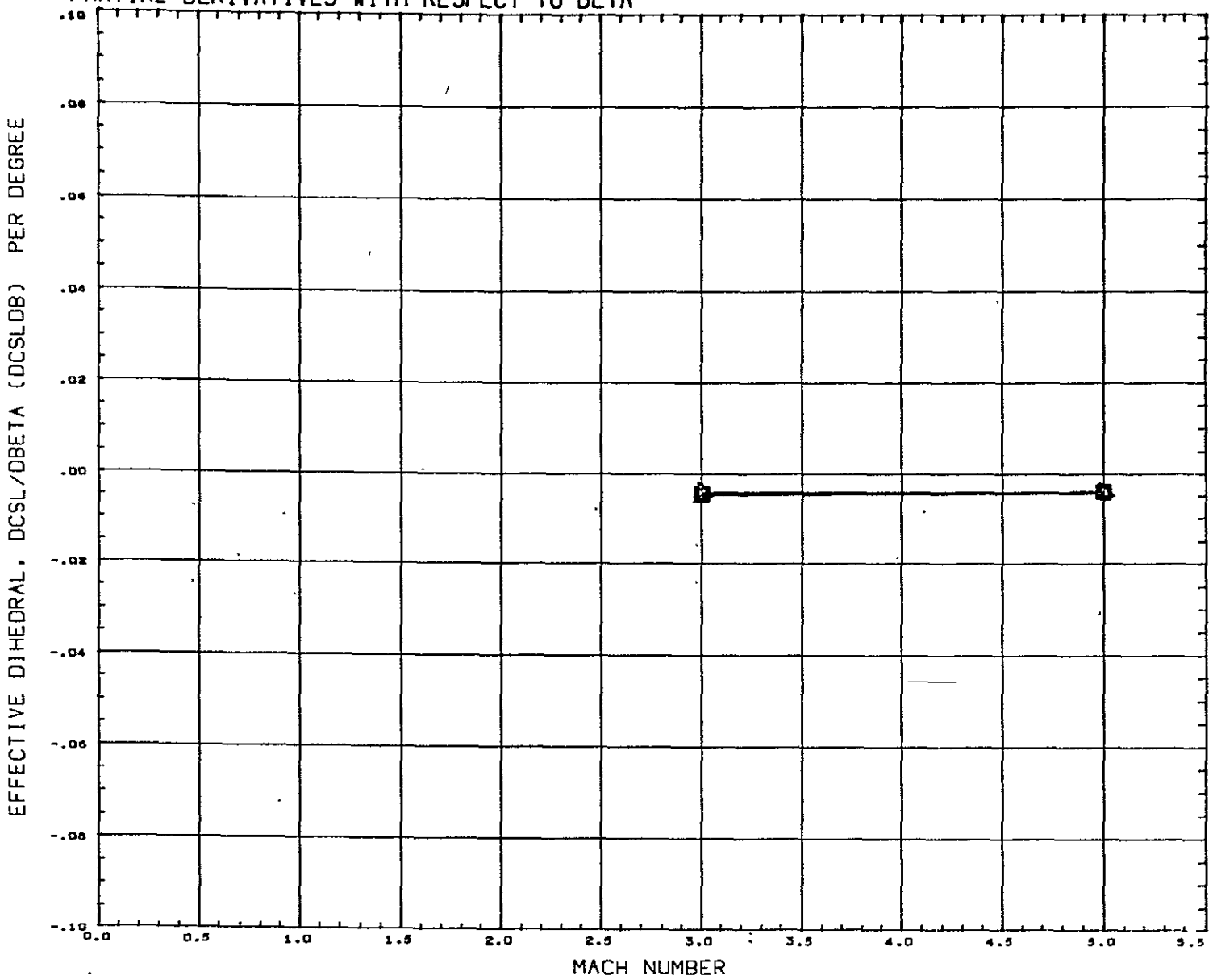
PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA		PARAMETRIC VALUES		
○	- 10.000	ALPHA	35.000	DEL	0.000
△	- 8.000	DER	0.000	DCL	0.000
□	- 6.000	DCR	0.000	ELEVON	0.000
◇	- 4.000	CANARD	0.000	AILRON	0.000
▽	- 2.000				
	0.000	DATA HIST. CODE		MVR*EGI	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO BETA



SYMBOL	BETA
◻	2.000
△	4.000
◇	6.000
⊿	8.000
	10.000

PARAMETRIC VALUES

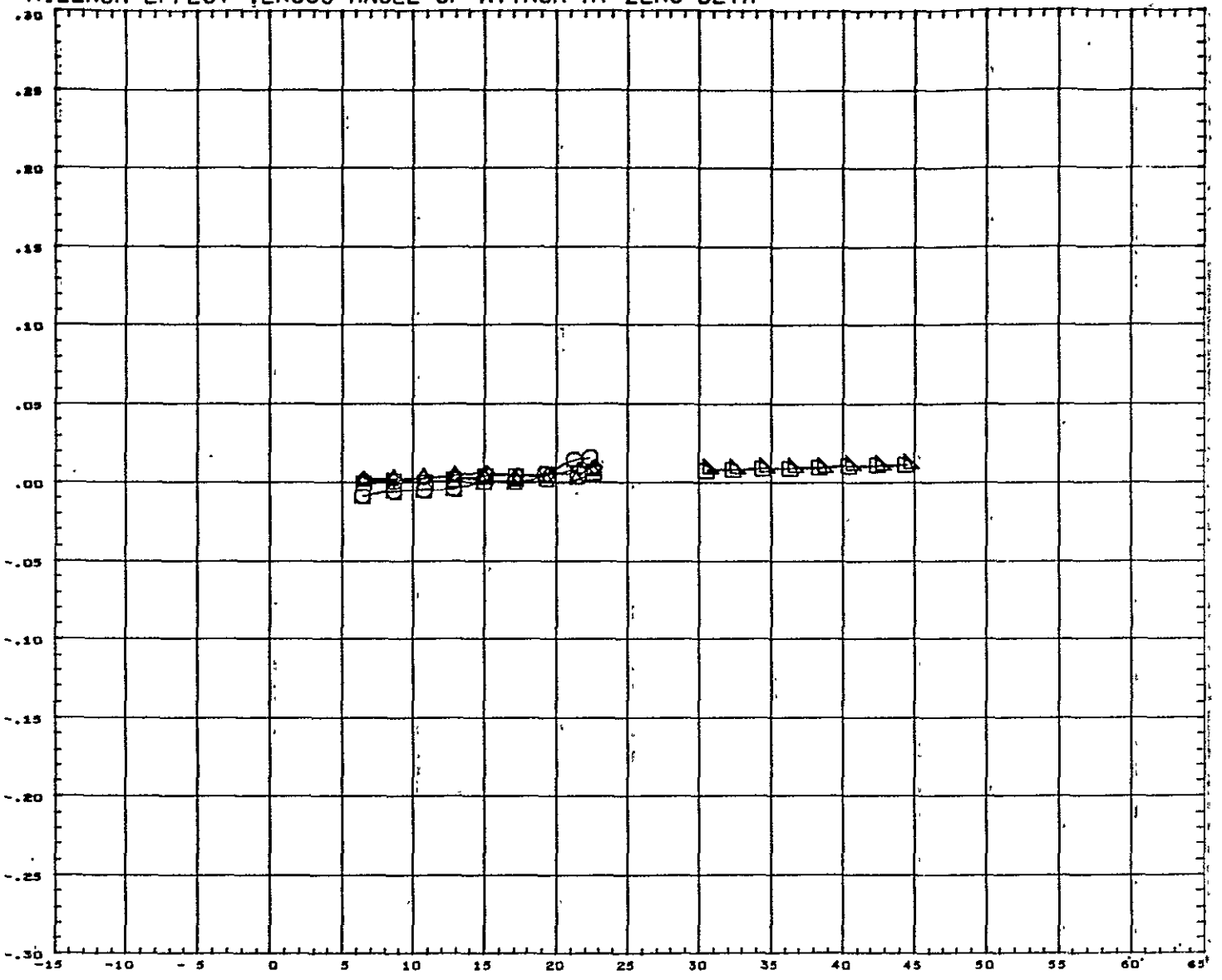
ALPHA	35.000	DEL	0.000	
DER	0.000	DCL	0.000	
DCR	0.000	ELEVON	0.000	
CANARD	0.000	AILRON	0.000	

DATA HIST. CODE MVR*EGI

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

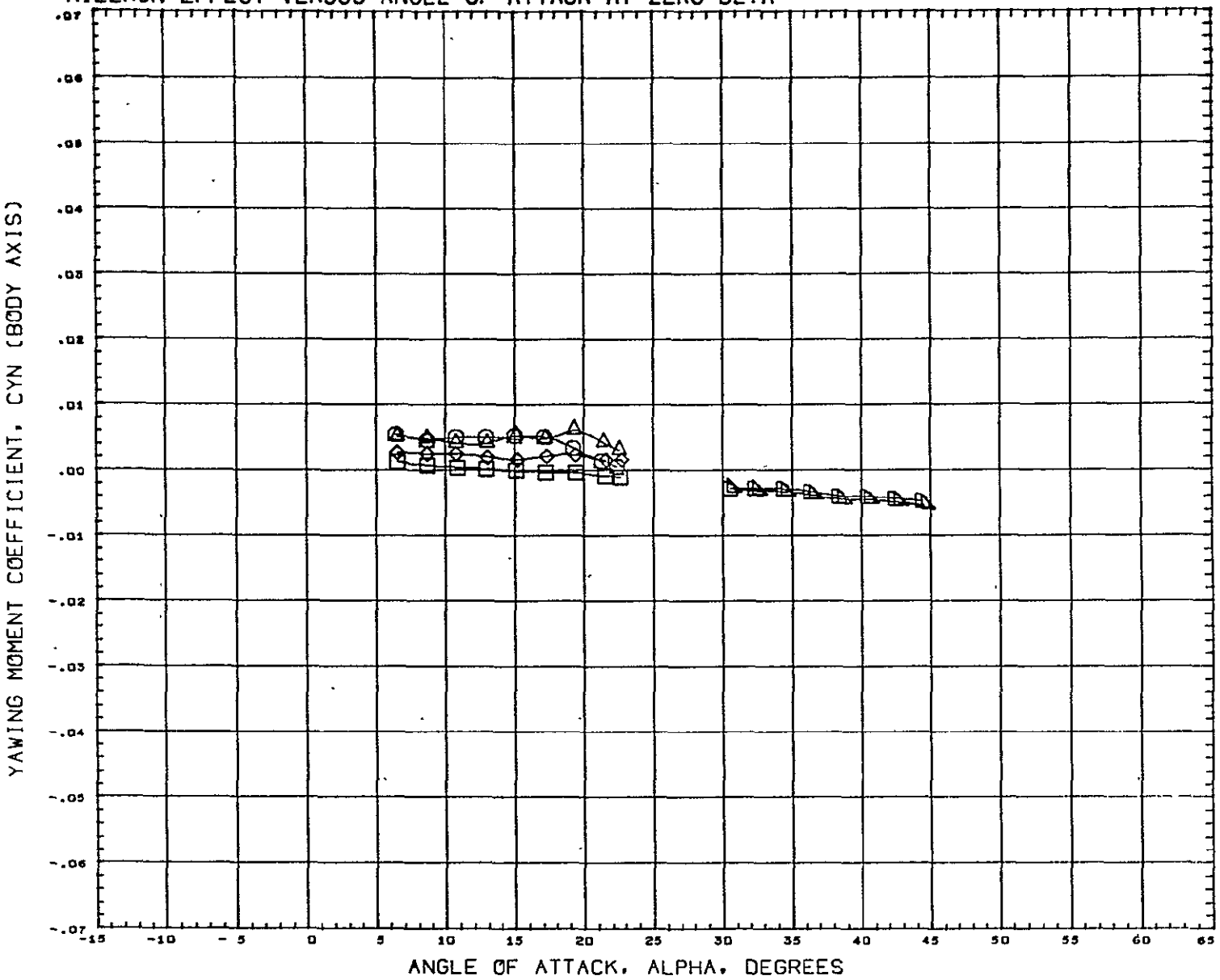
AILERON EFFECT VERSUS ANGLE OF ATTACK AT ZERO BETA



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.900	BETA	0.000	DEL	0.000
△	1.000	DER	- 20.000	DCL	0.000
◇	1.206	DCR	0.000	ELEVON	- 10.000
□	1.960	CANARD	0.000	AILRON	10.000
▽	2.990				
D	4.960	DATA HIST. CODE		MVR*E*G	

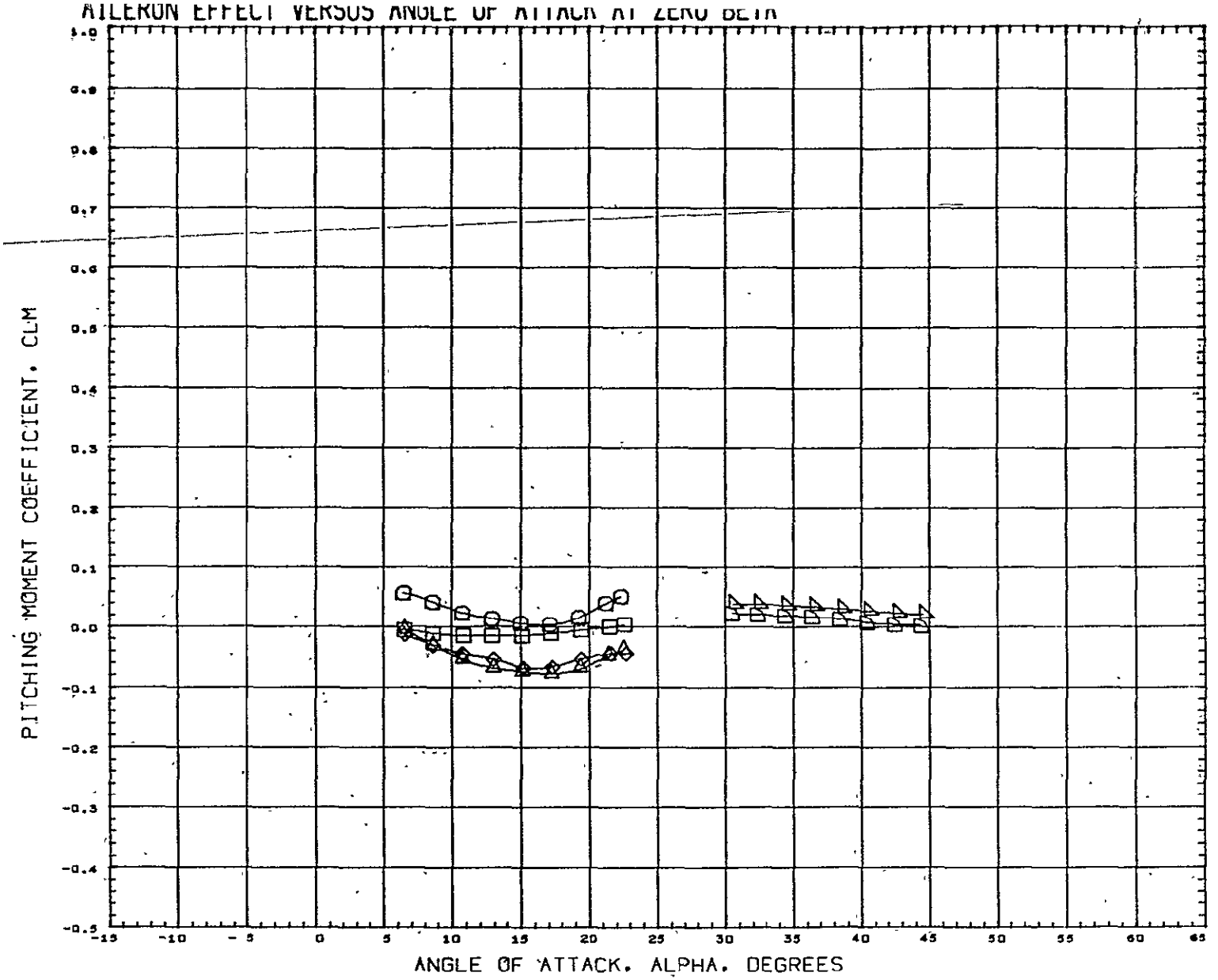
REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

AILERON EFFECT VERSUS ANGLE OF ATTACK AT ZERO BETA



SYMBOL	MACH	PARAMETRIC VALUES			
	0.900	BETA	0.000	DEL	0.000
	1.000	DER	- 20.000	DCL	0.000
	1.206	DCR	0.000	ELEVON	- 10.000
	1.960	CANARD	0.000	AILRON	10.000
	2.990				
	4.960	DATA HIST. CODE		MVR*E*G	

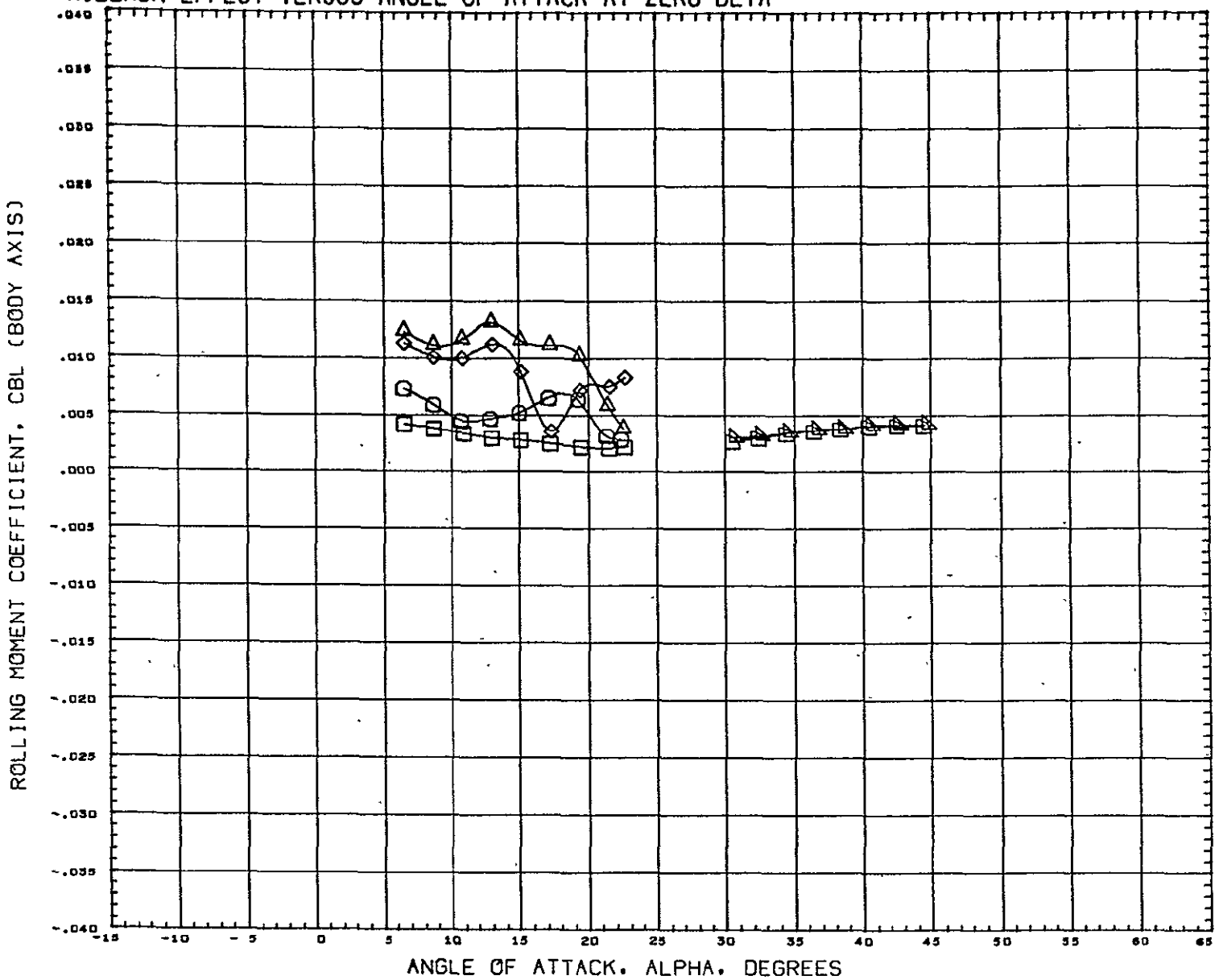
REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.900	BETA	0.000	DEL	0.000
△	1.000	DER	- 20.000	DCL	0.000
◇	1.206	DCR	0.000	ELEVON	- 10.000
□	1.960	CANARD	0.000	AILRON	10.000
◸	2.990				
▷	4.960	DATA HIST. CODE		HVR*E*C	

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

AILERON EFFECT VERSUS ANGLE OF ATTACK AT ZERO BETA



SYMBOL	MACH
△	0.900
○	1.000
◇	1.206
□	1.960
▽	2.990
◁	4.960

PARAMETRIC VALUES

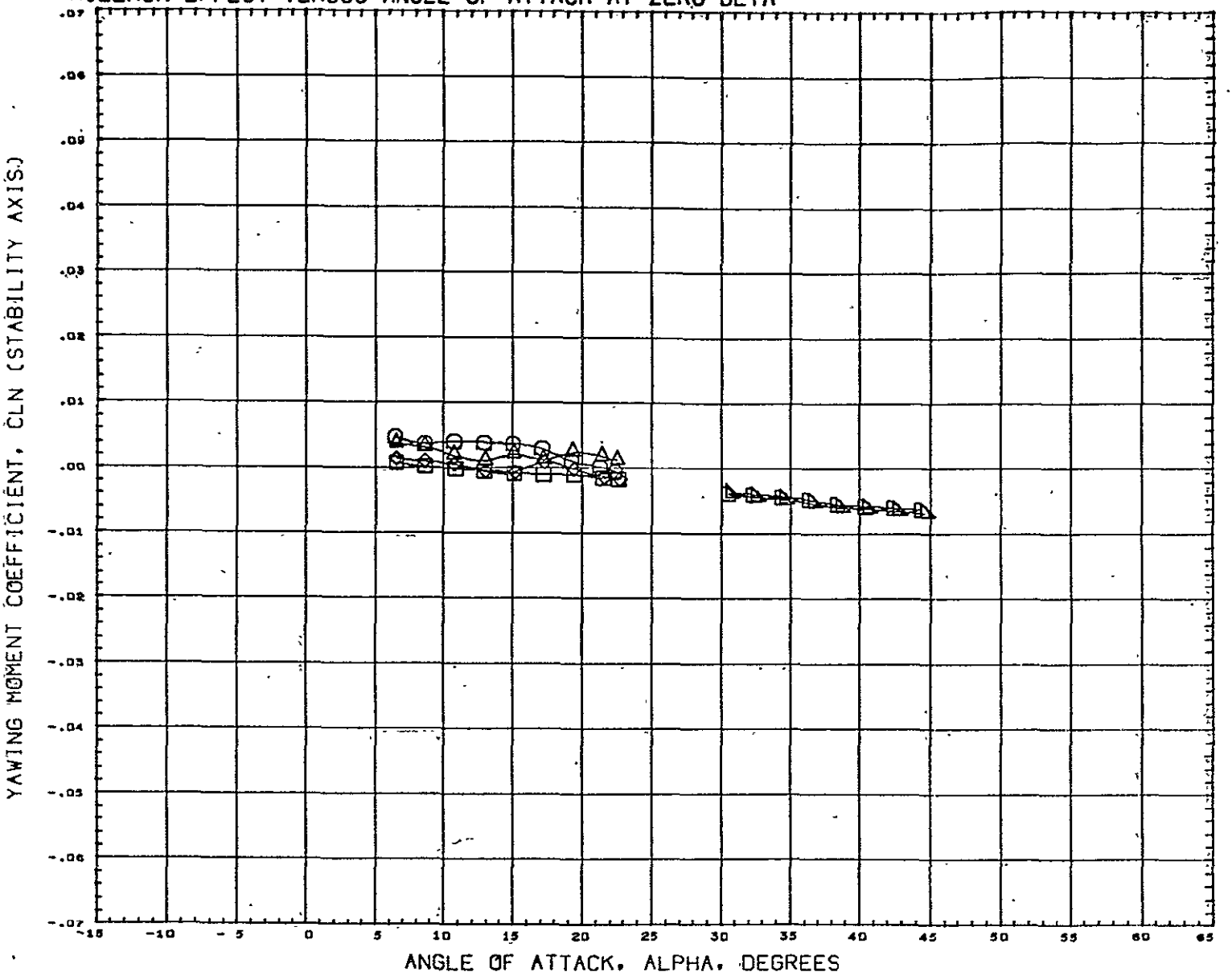
BETA	0.000	DEL	0.000
DER	- 20.000	DCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE MVR*E*G

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0930	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

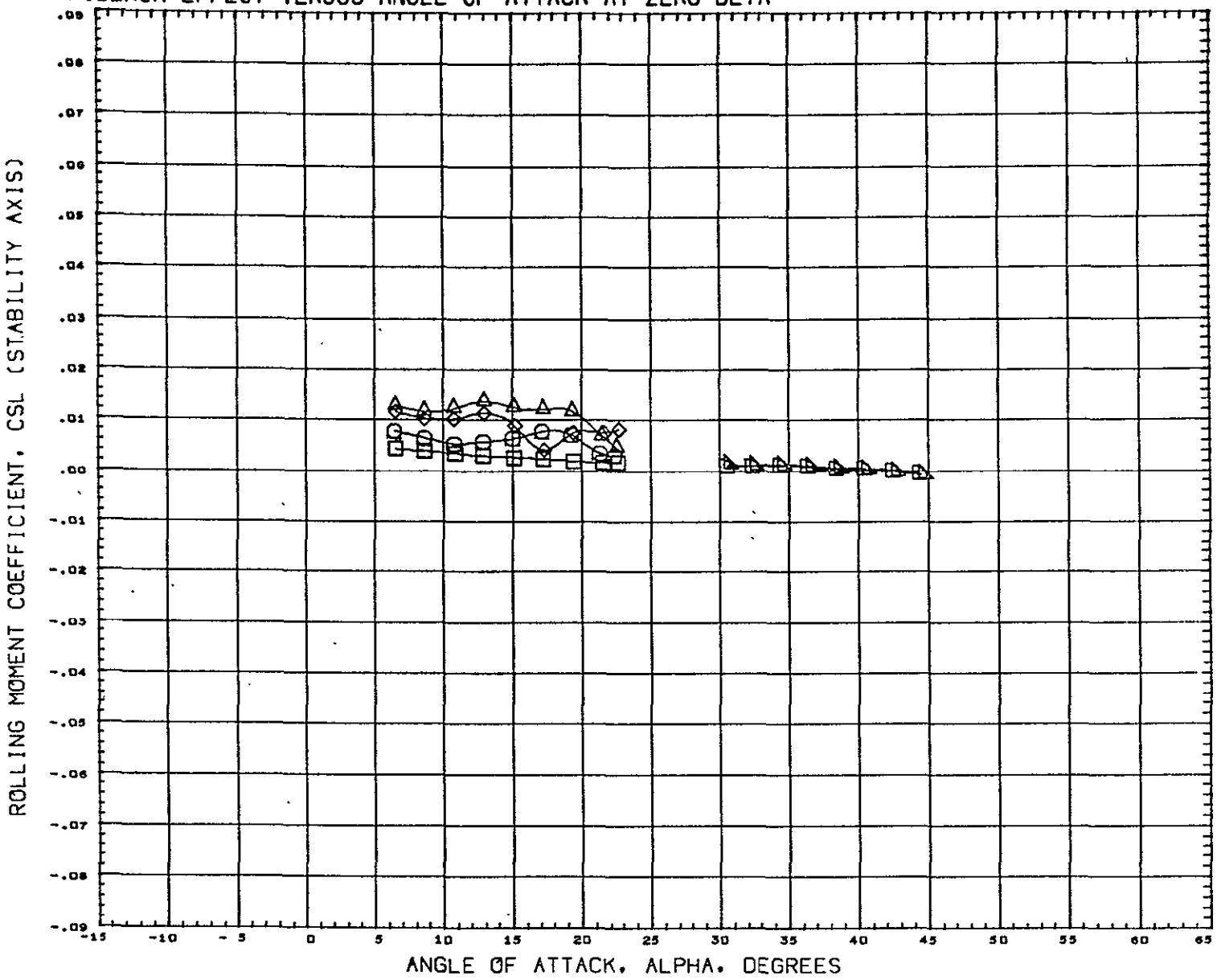
AILERON EFFECT VERSUS ANGLE OF ATTACK AT ZERO BETA



SYMBOL	MACH		PARAMETRIC VALUES		
○	0.900	BETA	0.000	DEL	0.000
△	1.000	DER	- 20.000	DCL	0.000
◇	1.206	DCR	0.000	ELEVON	- 10.000
□	1.960	CANARD	0.000	AILRON	10.000
▽	2.990				
D	4.960	DATA HIST. CODE	MVR*E*G		

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0033	

AILERON EFFECT VERSUS ANGLE OF ATTACK AT ZERO BETA



SYMBOL	MACH
○	0.900
△	1.000
◇	1.206
□	1.960
▽	2.990
D	4.960

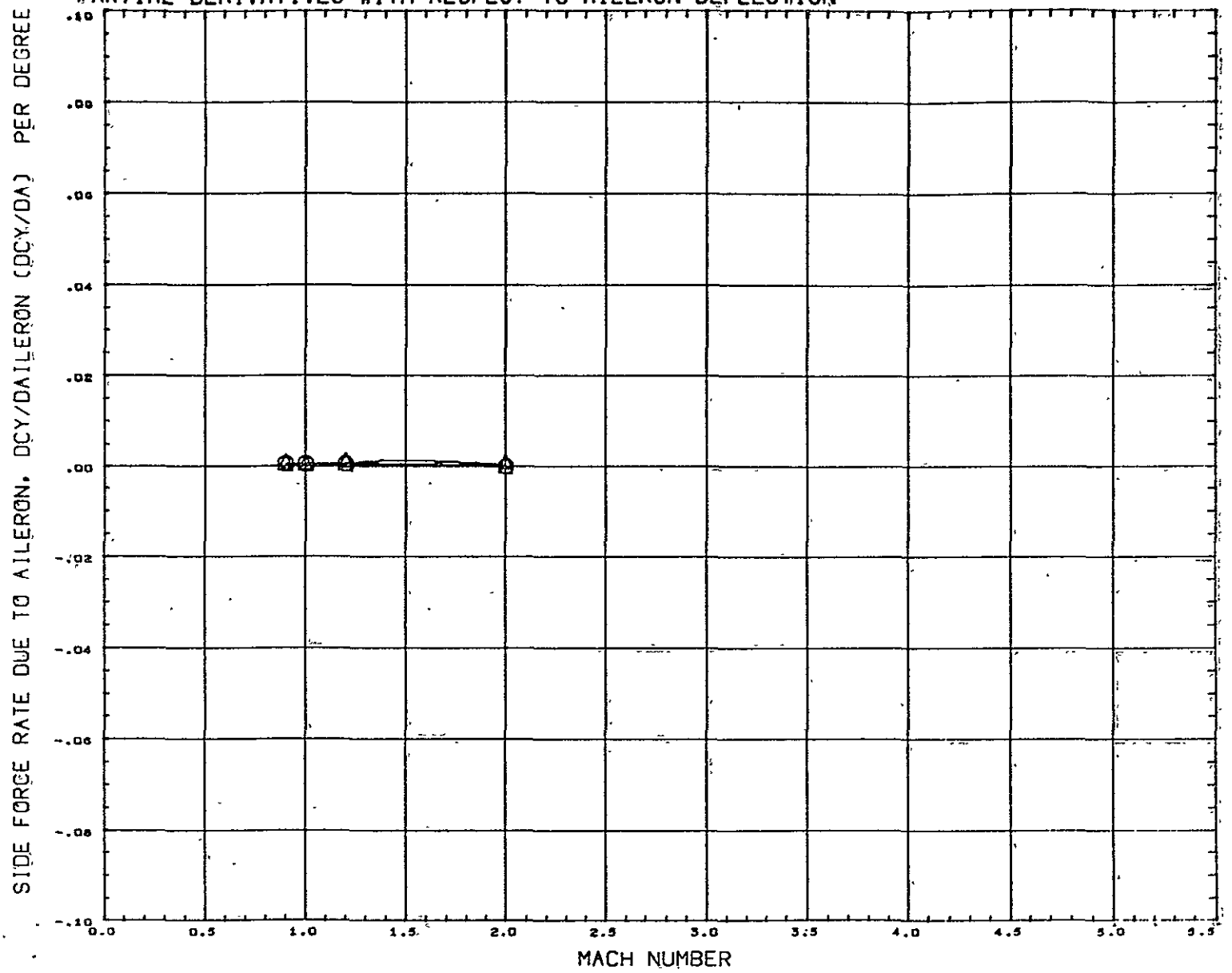
PARAMETRIC VALUES

BETA	0.000	DEL	0.000
DER	- 20.000	OCL	0.000
DCR	0.000	ELEVON	- 10.000
CANARD	0.000	AILRON	10.000
DATA HIST. CODE	MVR*E*G		

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO AILERON DEFLECTION

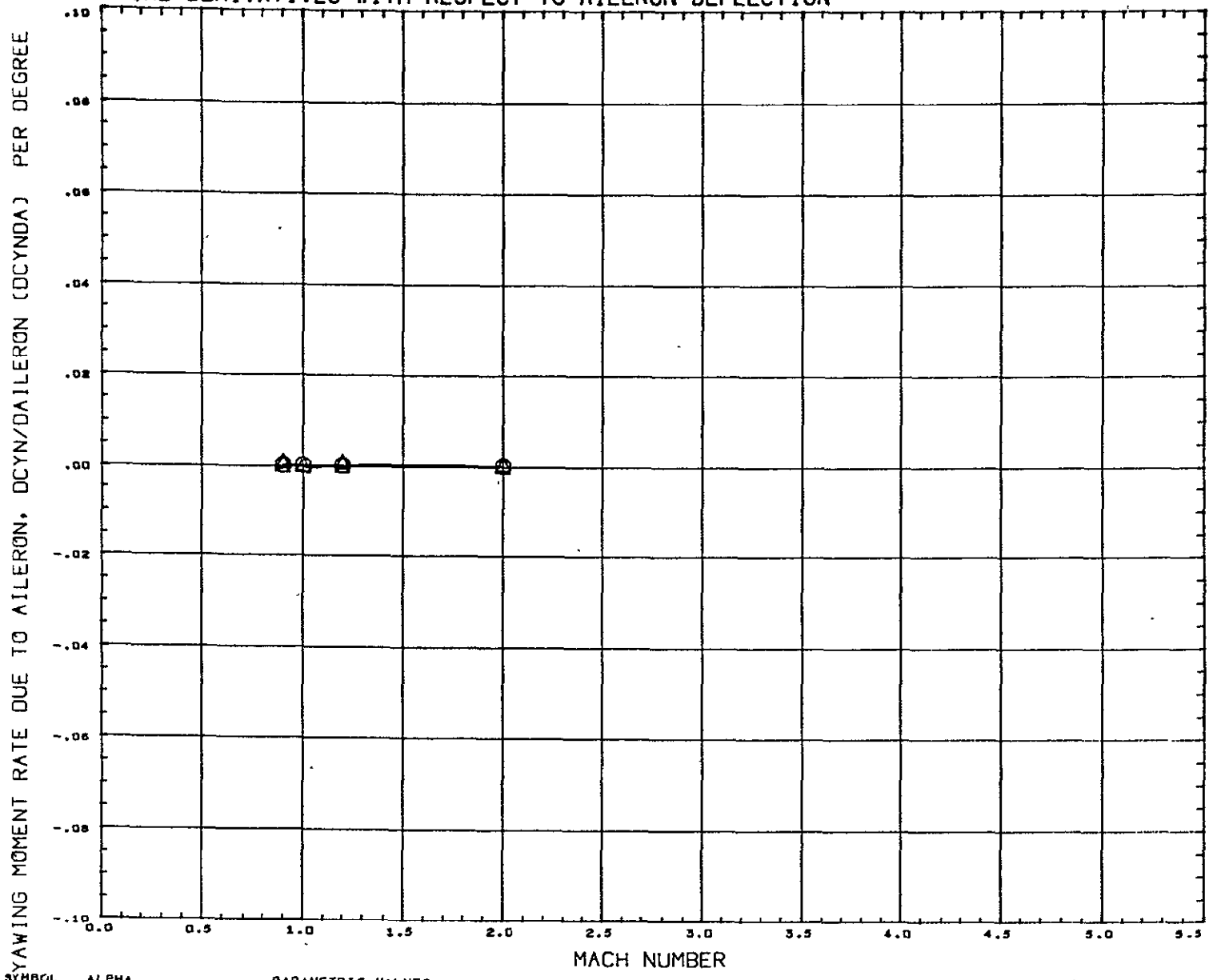


SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DCL	0.000	DCR	0.000
		CANARD	0.000	AILRON	10.000

DATA HIST. CODE MVR*EI*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO AILERON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

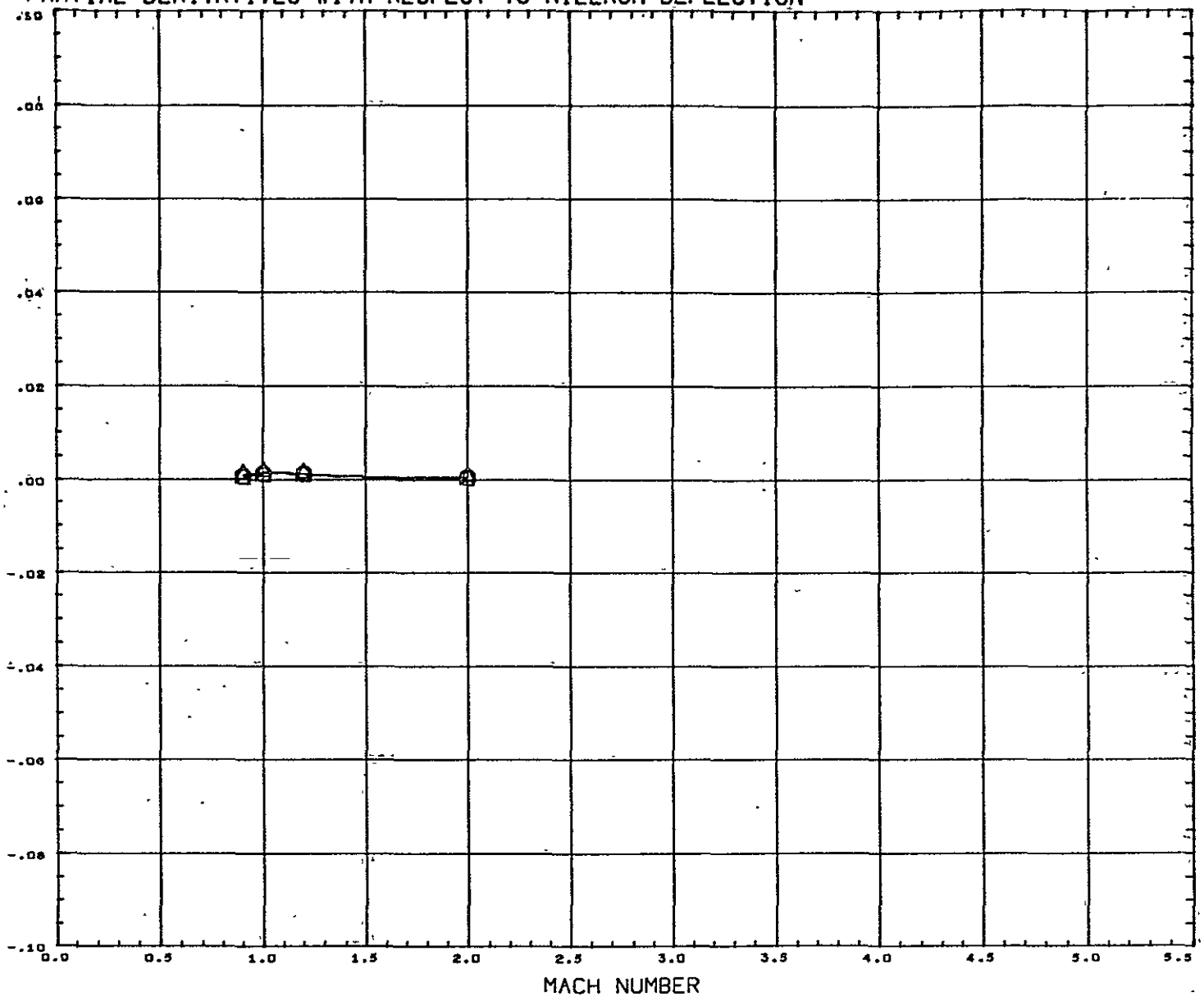
BETA	0.000	DEL	0.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE MVR*EI*P

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO AILERON DEFLECTION

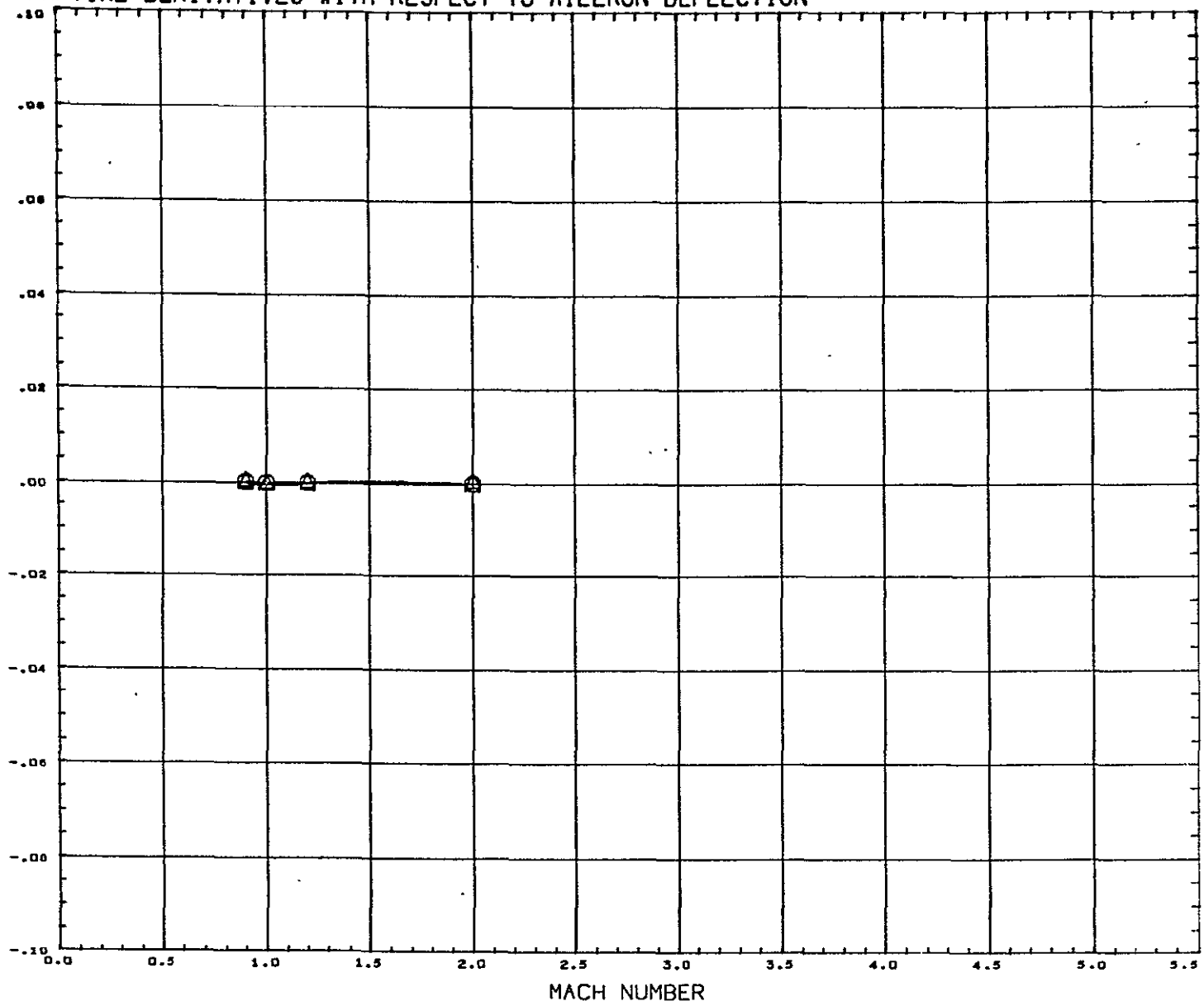


SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DCL	0.000	DCR	0.000
		CANARD	0.000	AILRON	10.000

DATA HIST. CODE HVR*E1*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO AILERON DEFLECTION

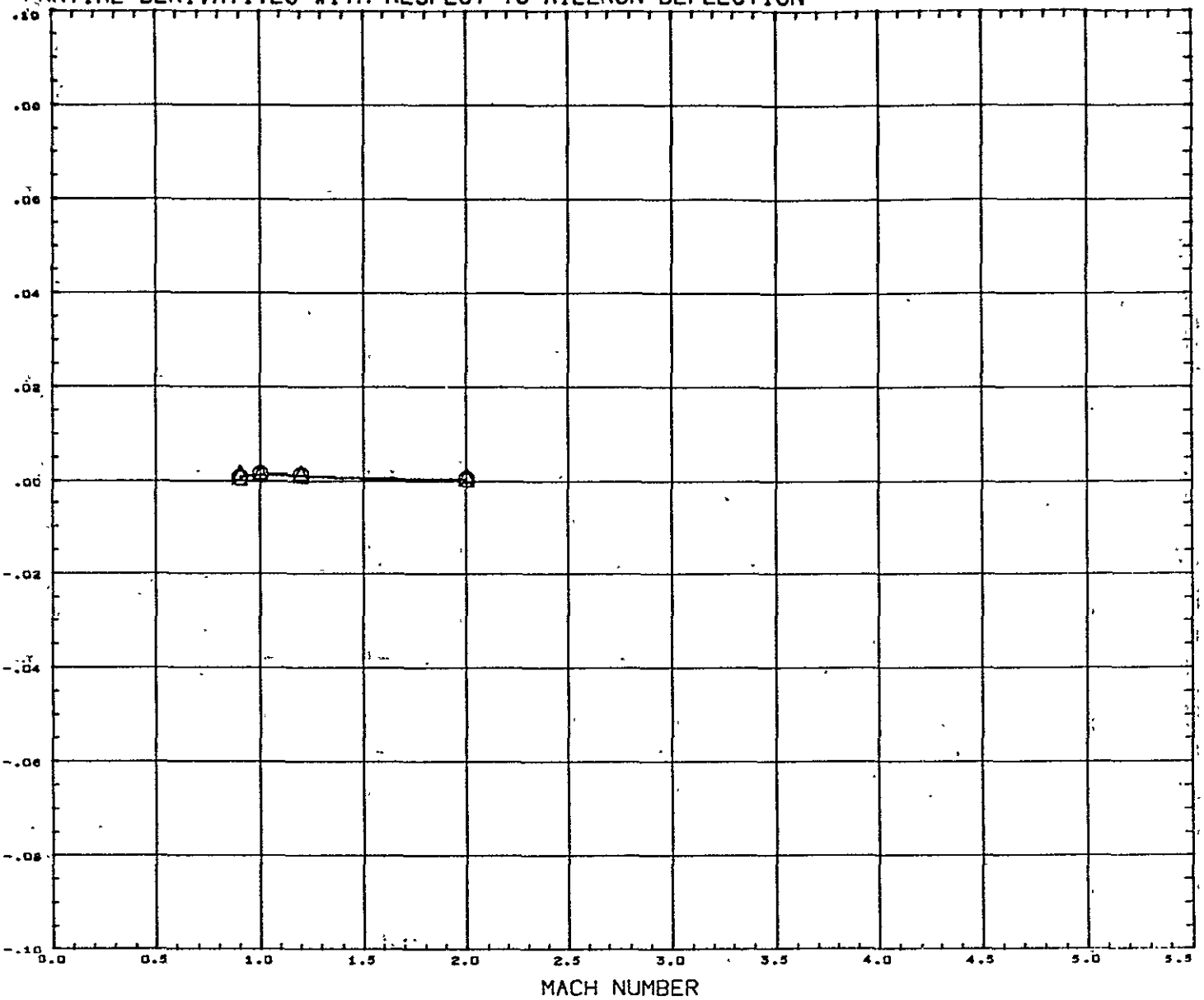


SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	BETA	0.000	DEL	0.000
△	20.000	DCL	0.000	DCR	0.000
		CANARD	0.000	AILRON	10.000

DATA HIST. CODE HVR*E1*P

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

PARTIAL DERIVATIVES WITH RESPECT TO AILERON DEFLECTION



SYMBOL	ALPHA
○	10.000
△	20.000

PARAMETRIC VALUES

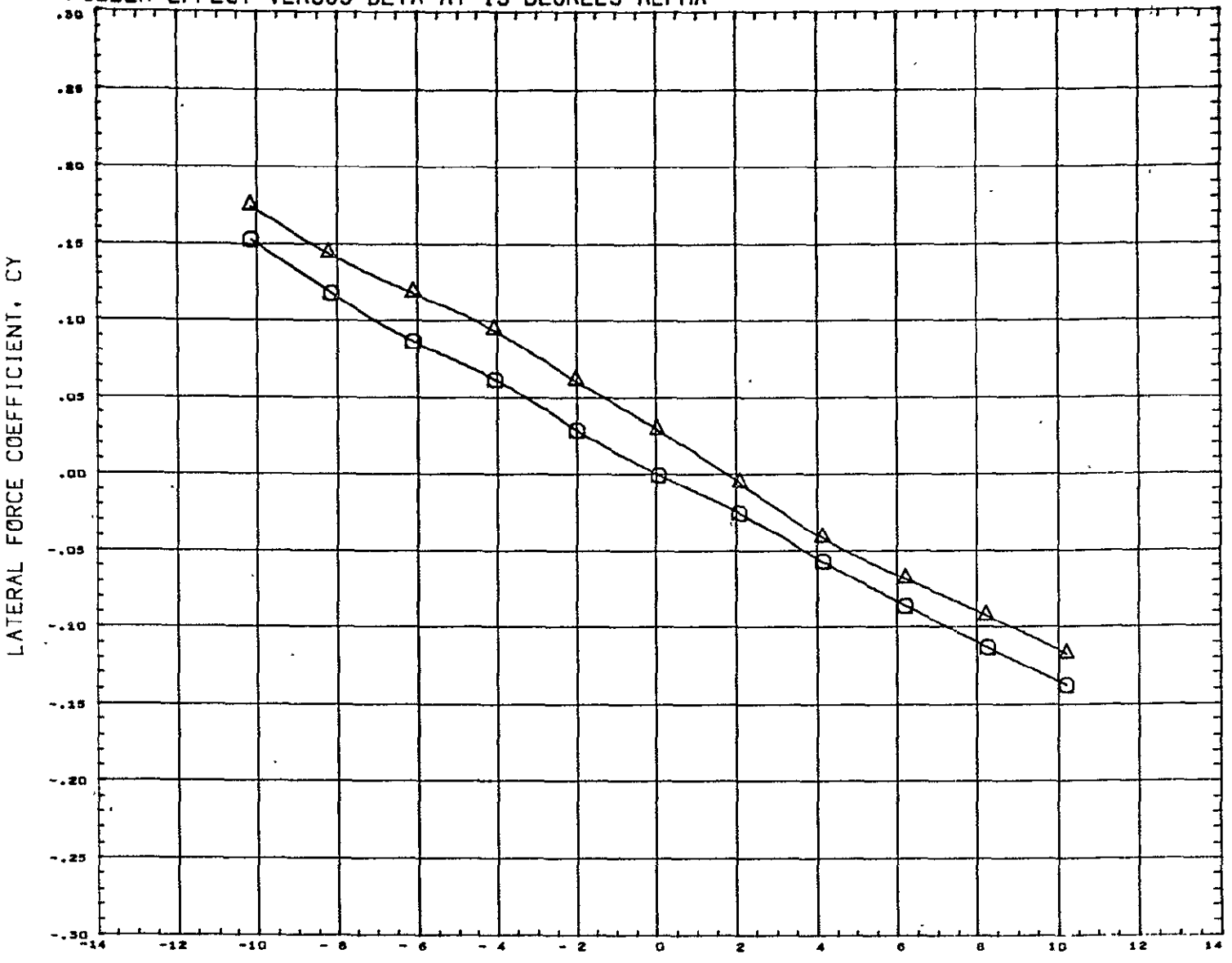
BETA	0.000	DEL	0.000
DCL	0.000	DCR	0.000
CANARD	0.000	AILRON	10.000

DATA HIST. CODE MVR*E1*P

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

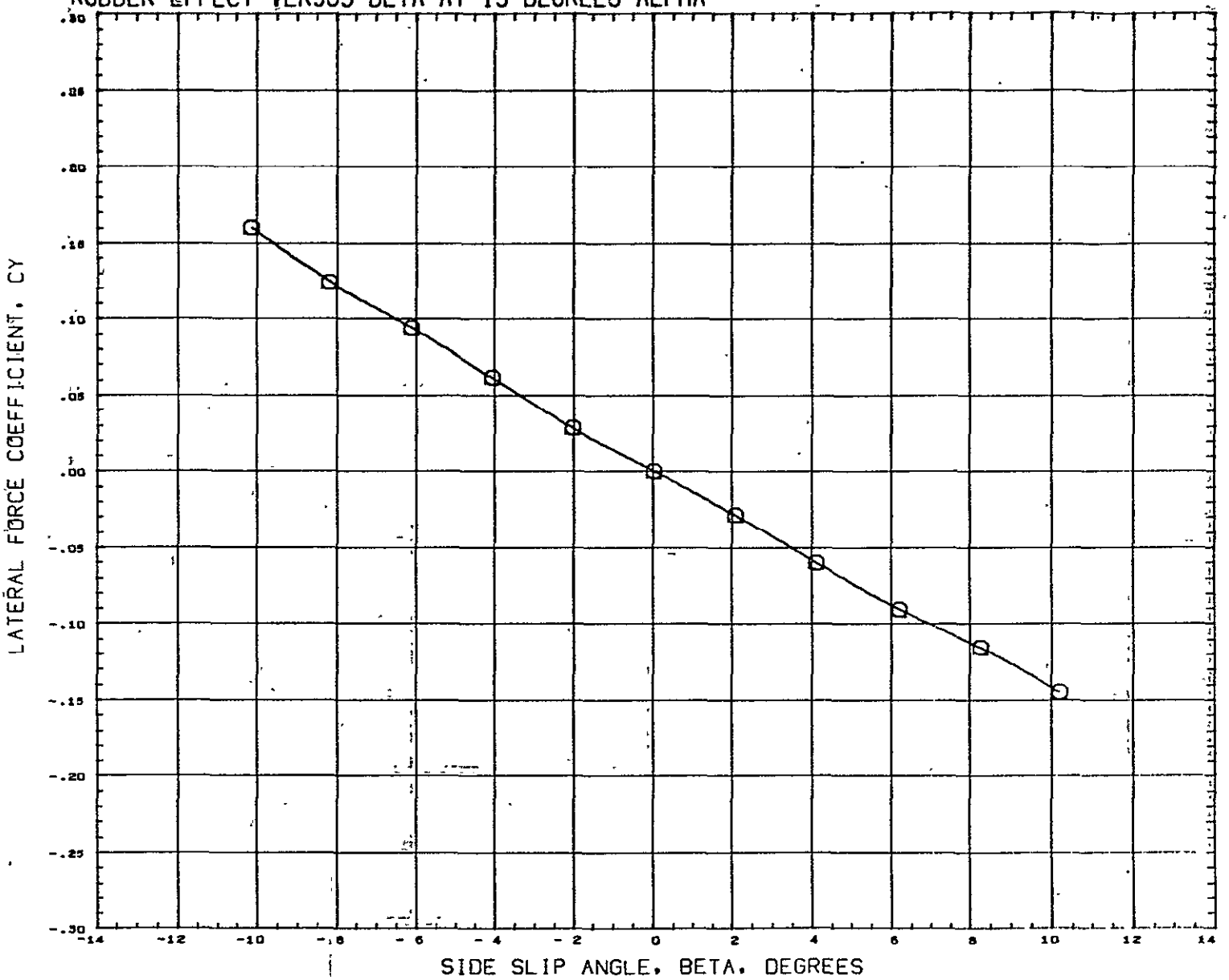


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	HSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	HSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6550	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.904

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

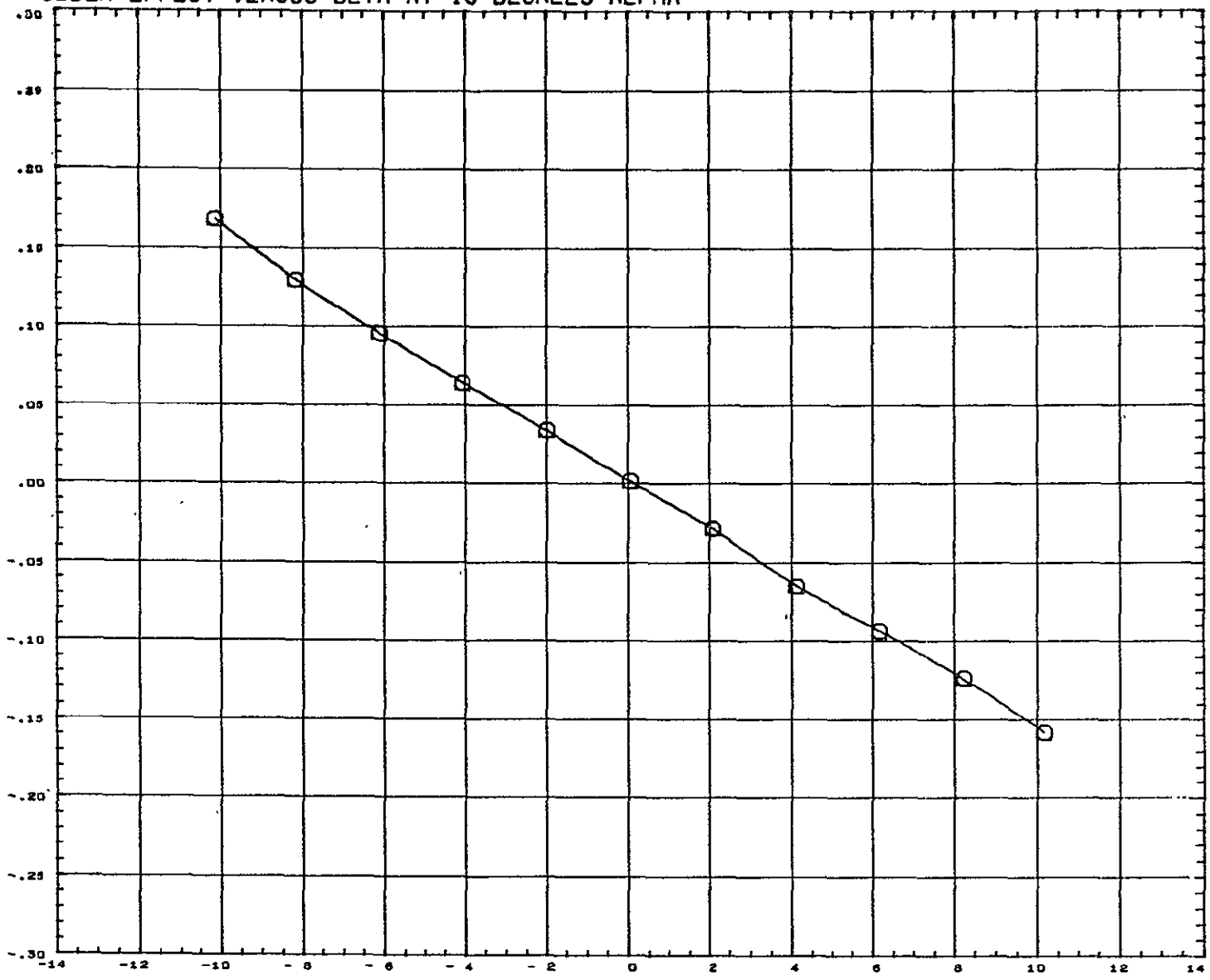


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

MACH 0.953

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0055	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA



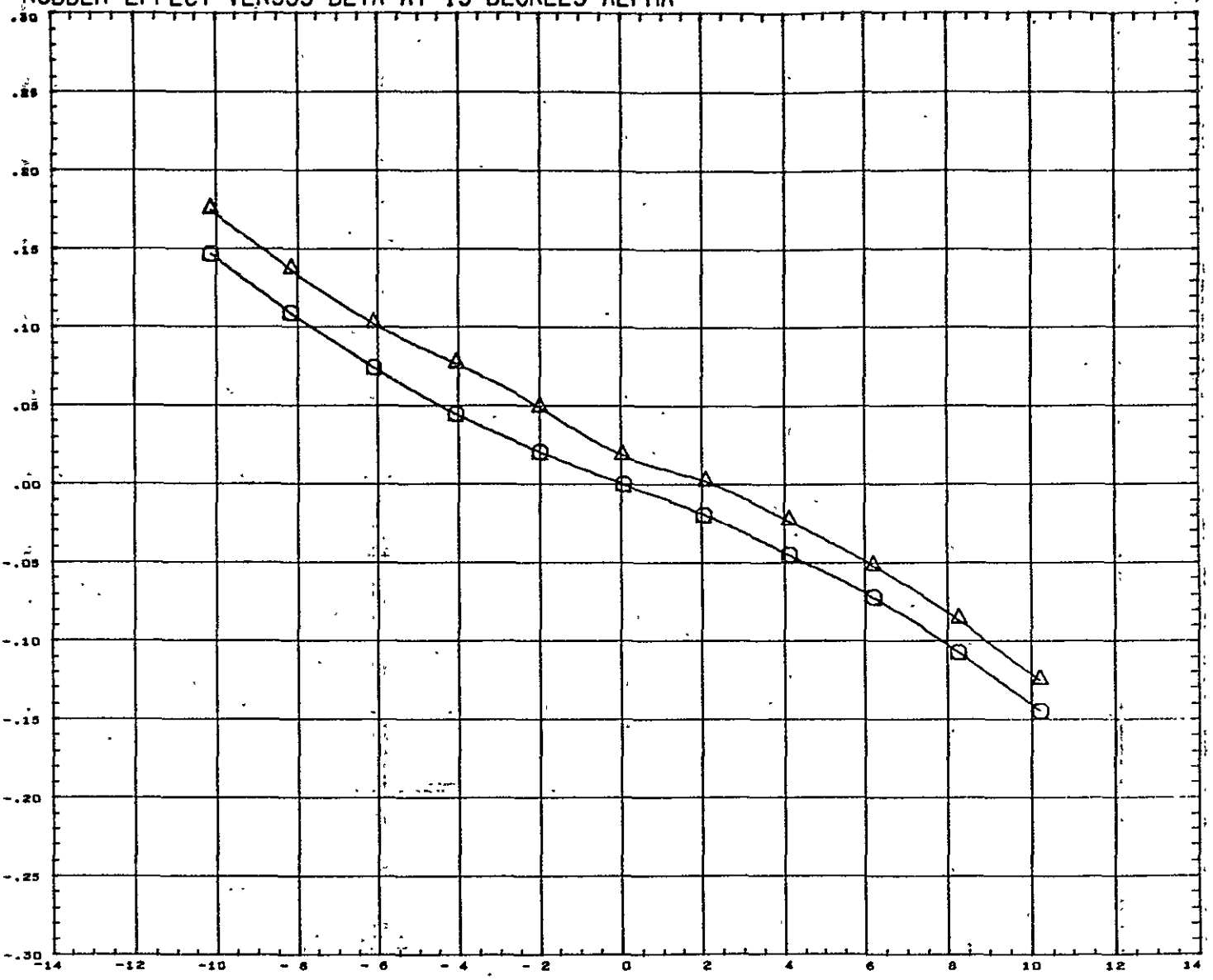
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F26Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(F26Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD	ELEVON	RUDDER
15.000	0.000	0.000	0.000
15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.000

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

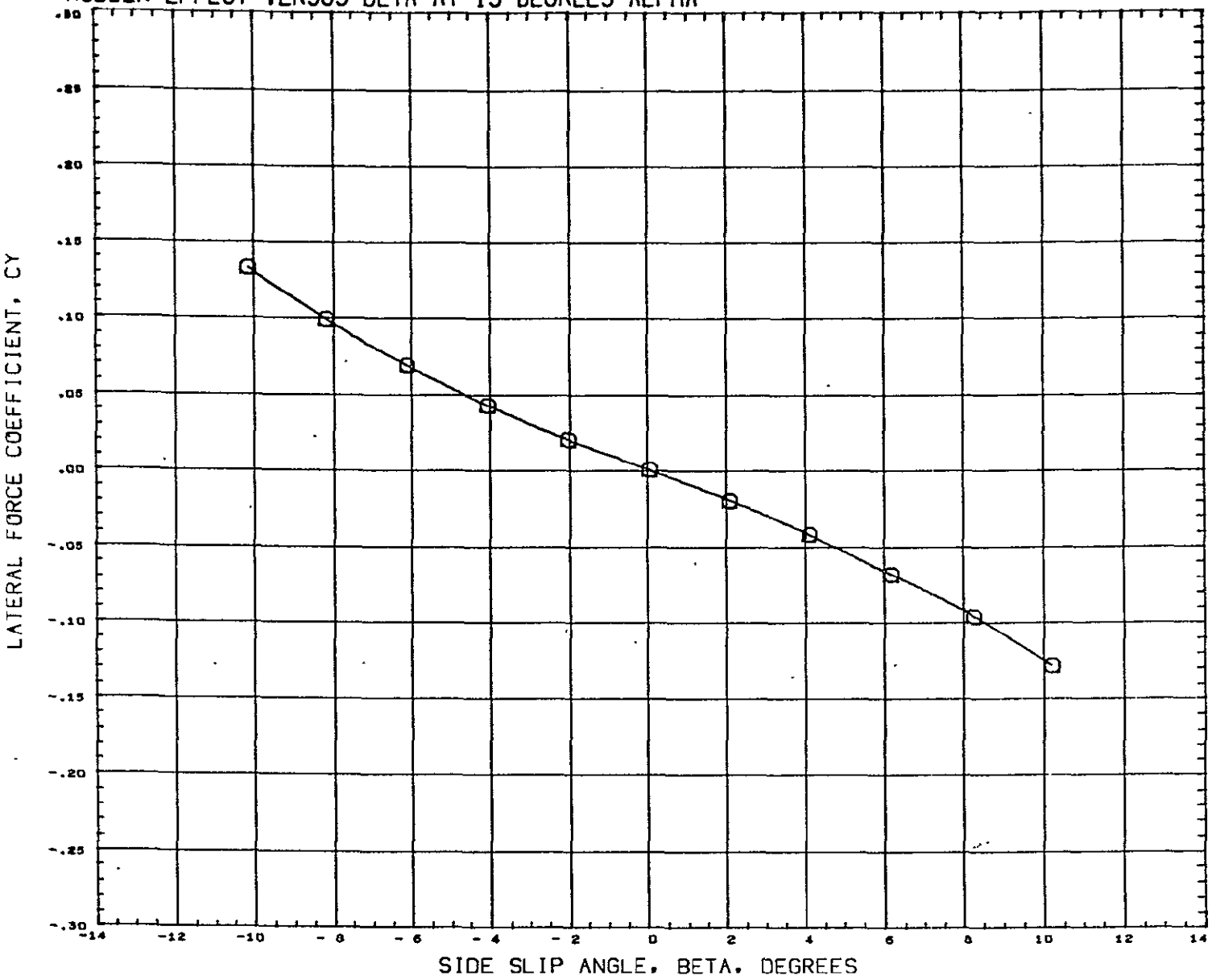


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

MACH 1.051

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0033	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

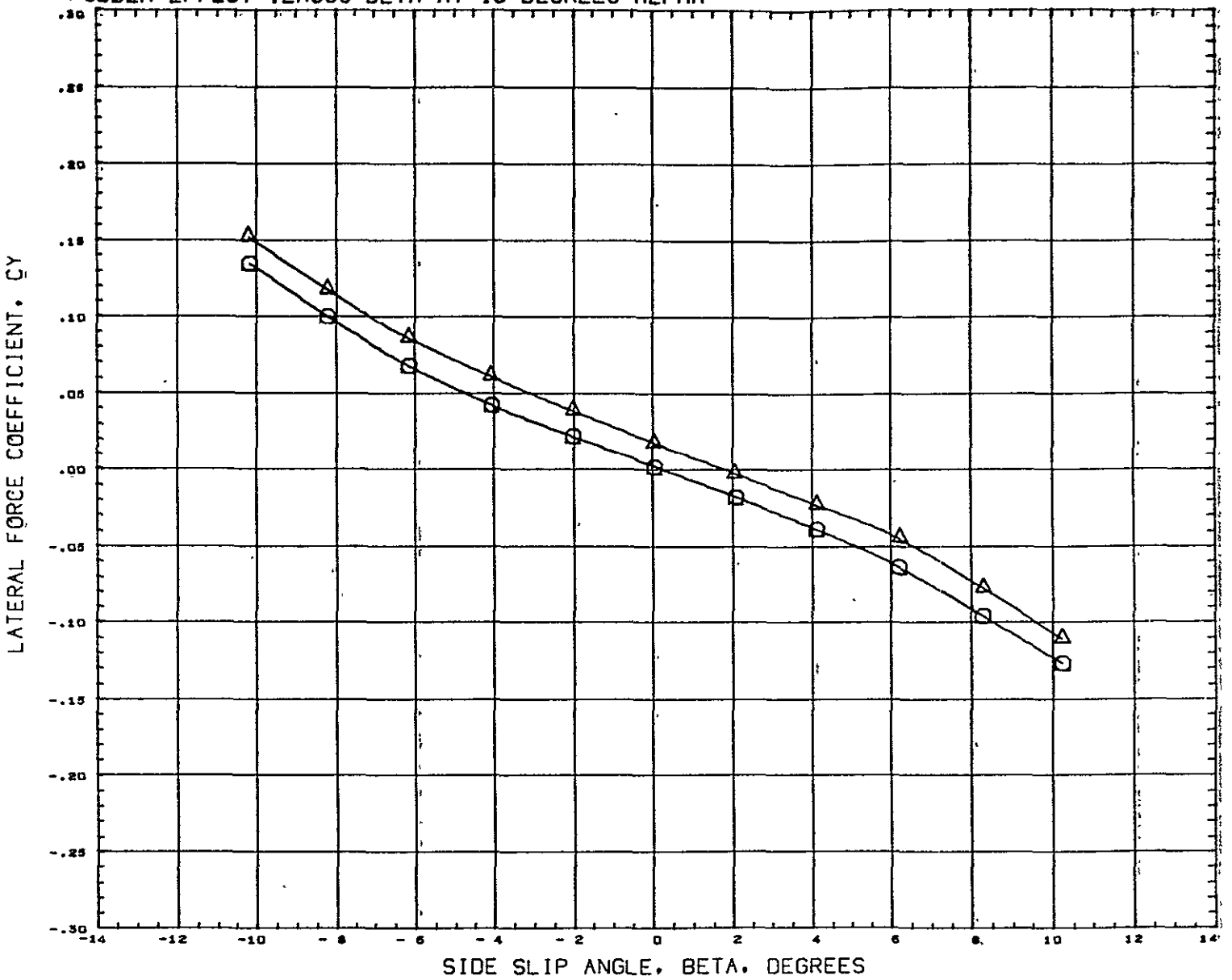


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.098

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

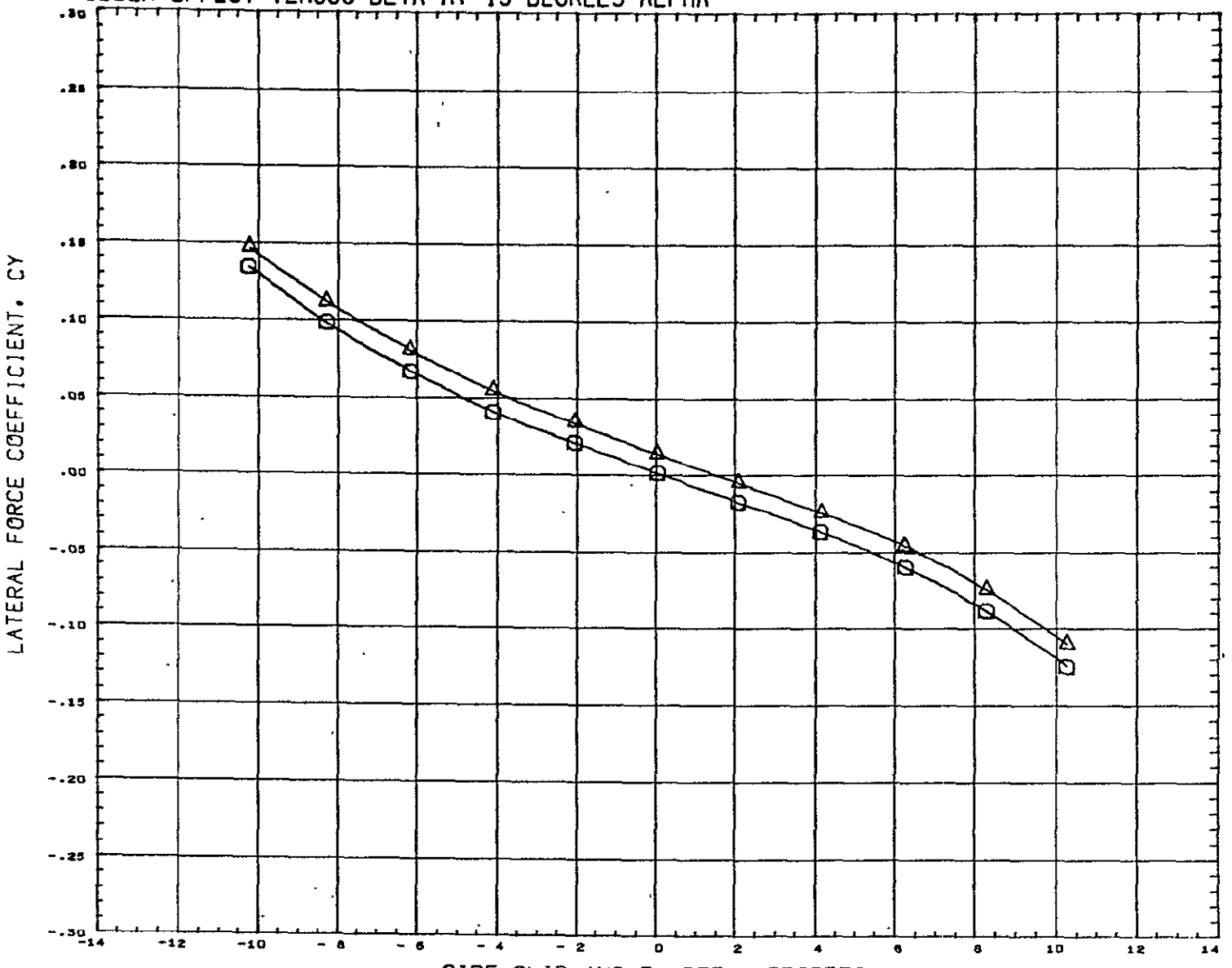


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F20Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F20Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.202

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA



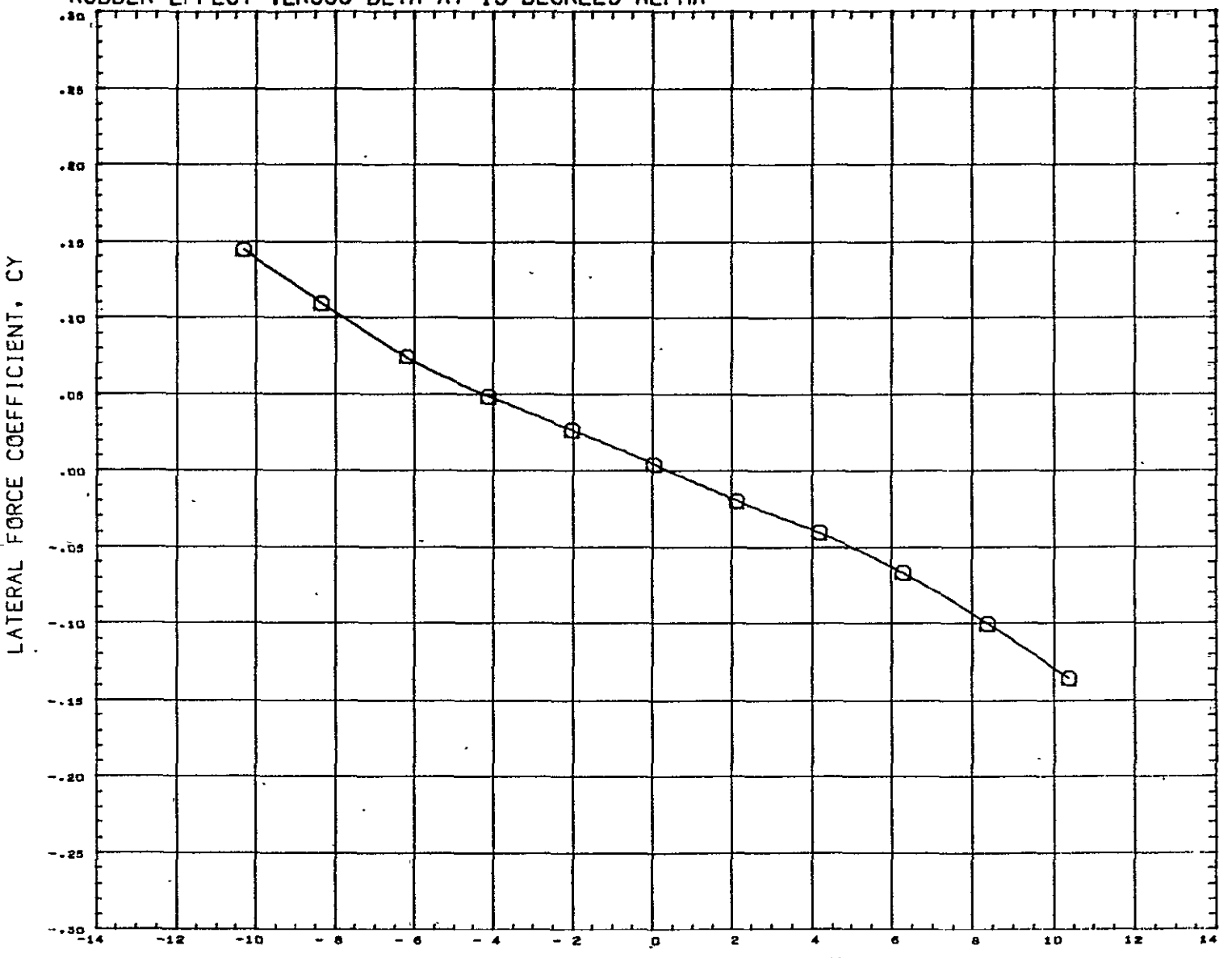
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(F28Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7

ALPHA	CANARD	ELEVON	RUDDER
15.000	0.000	0.000	0.000
15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.468

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

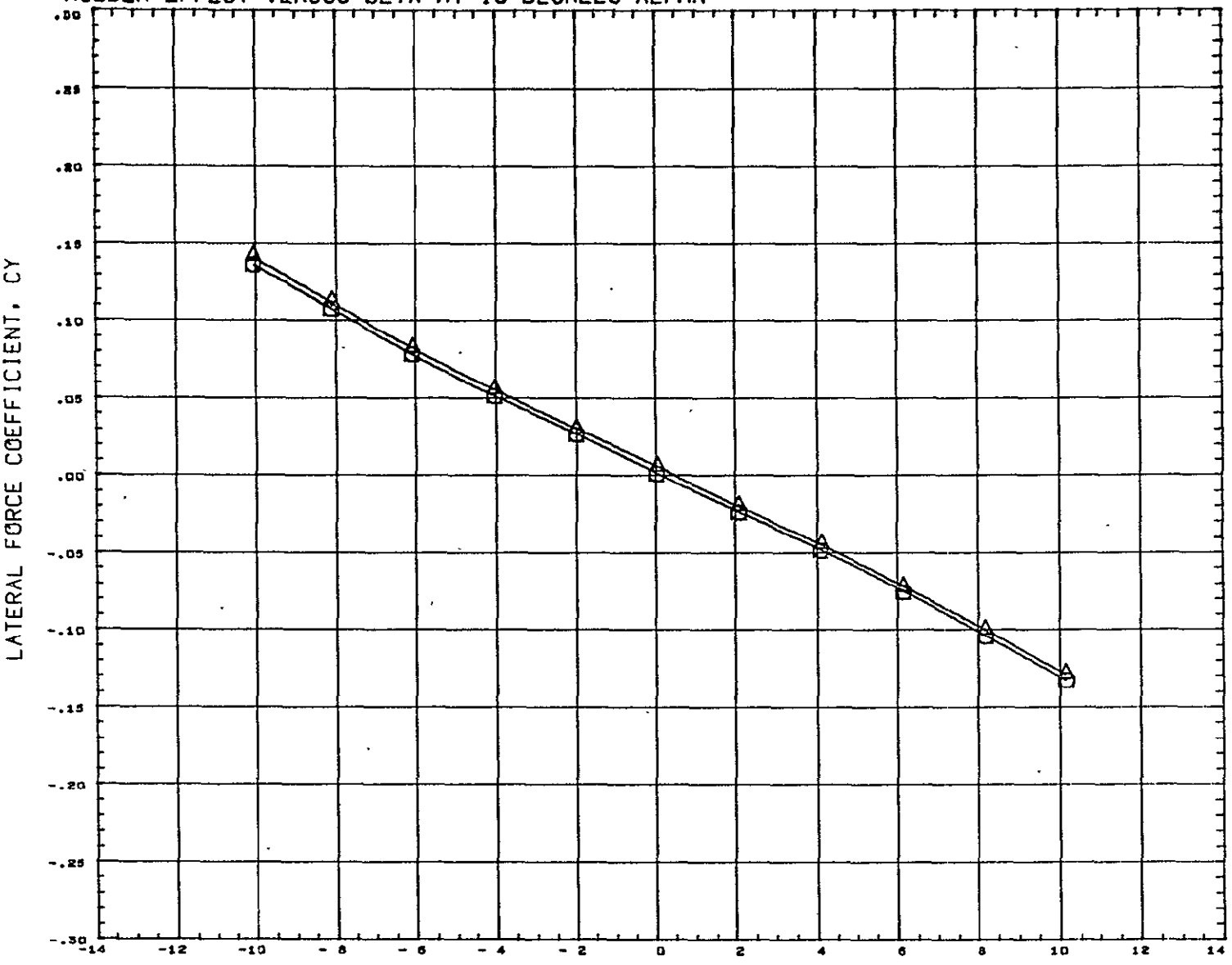


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.966

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

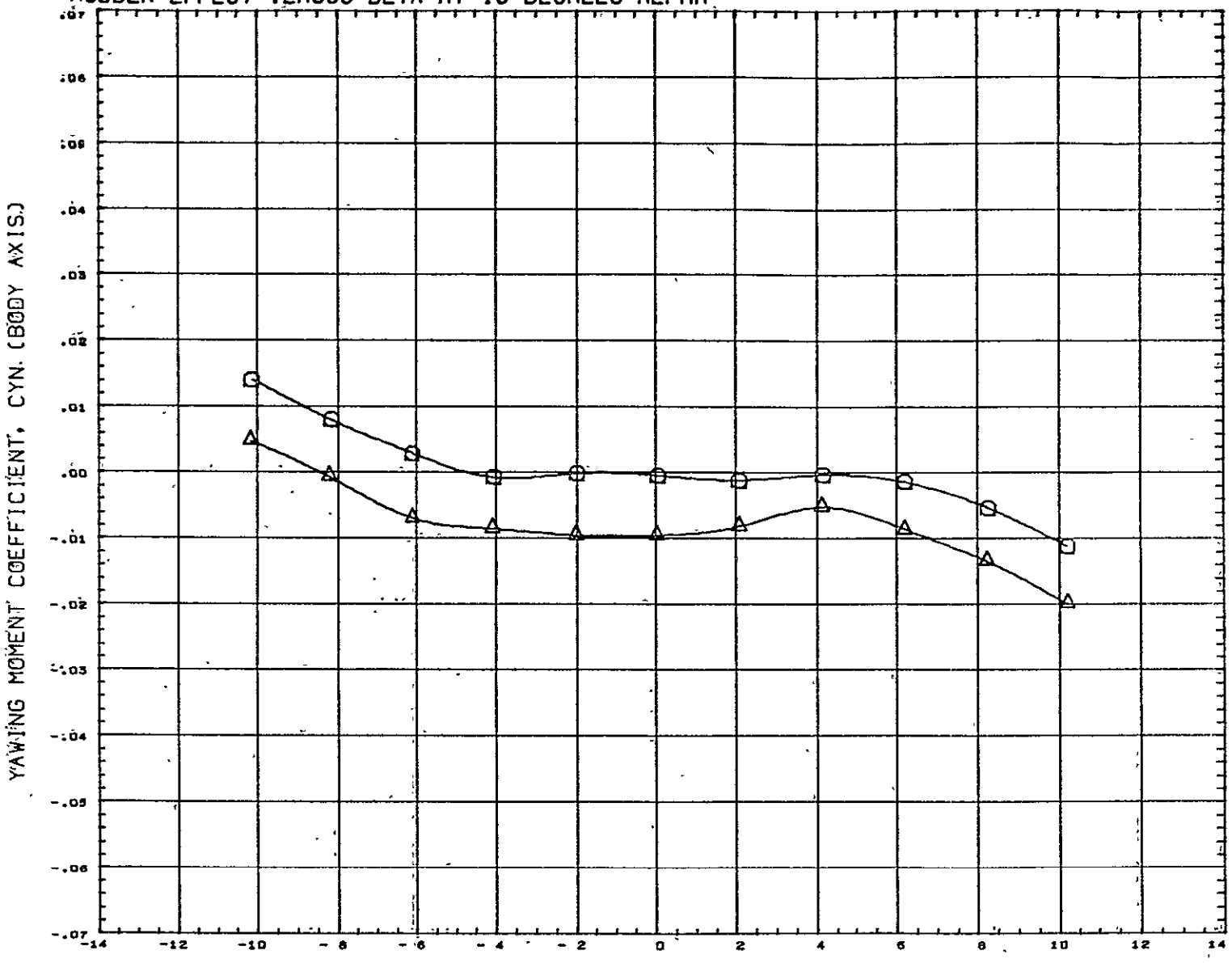


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

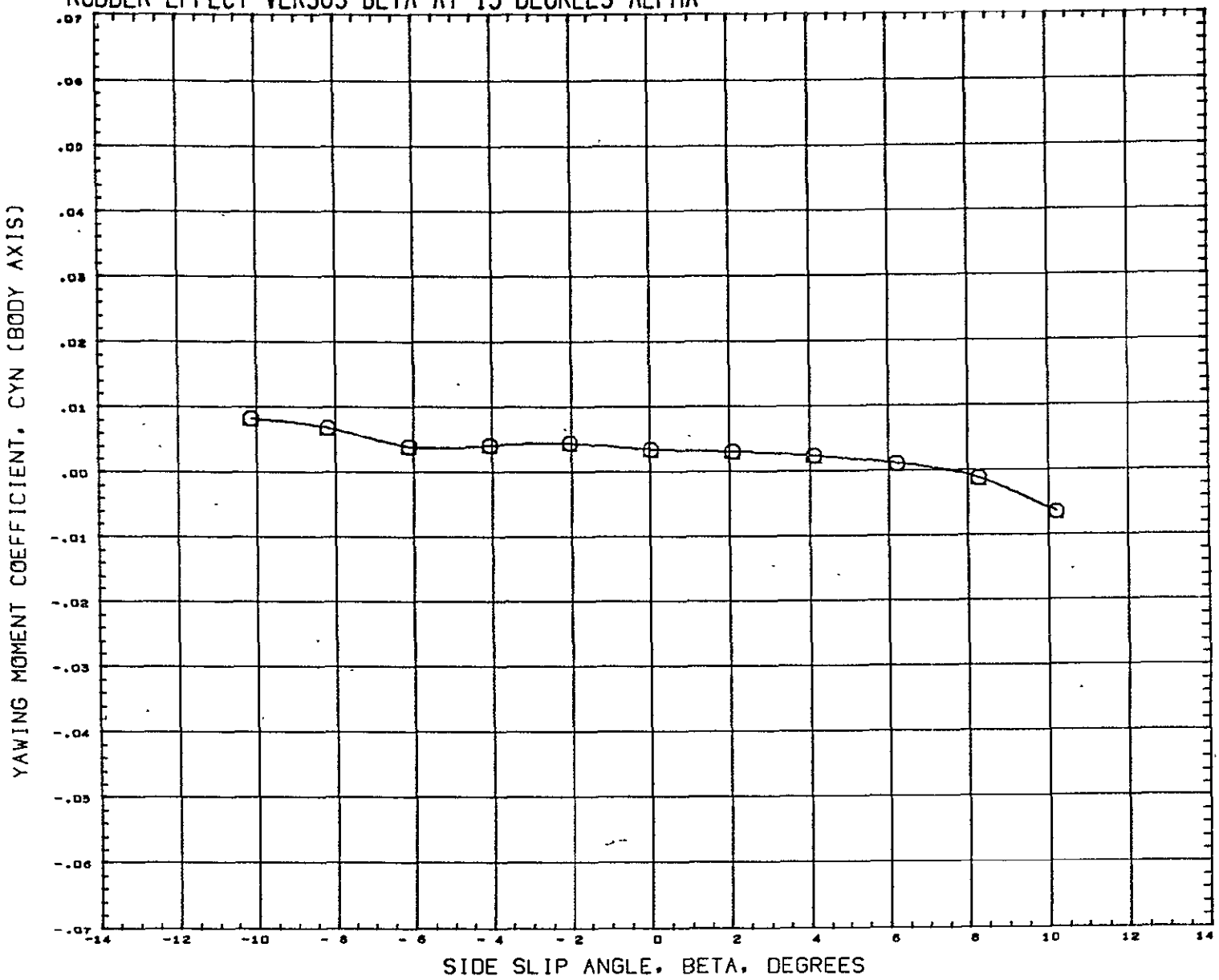


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

MACH 0.904

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0033	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

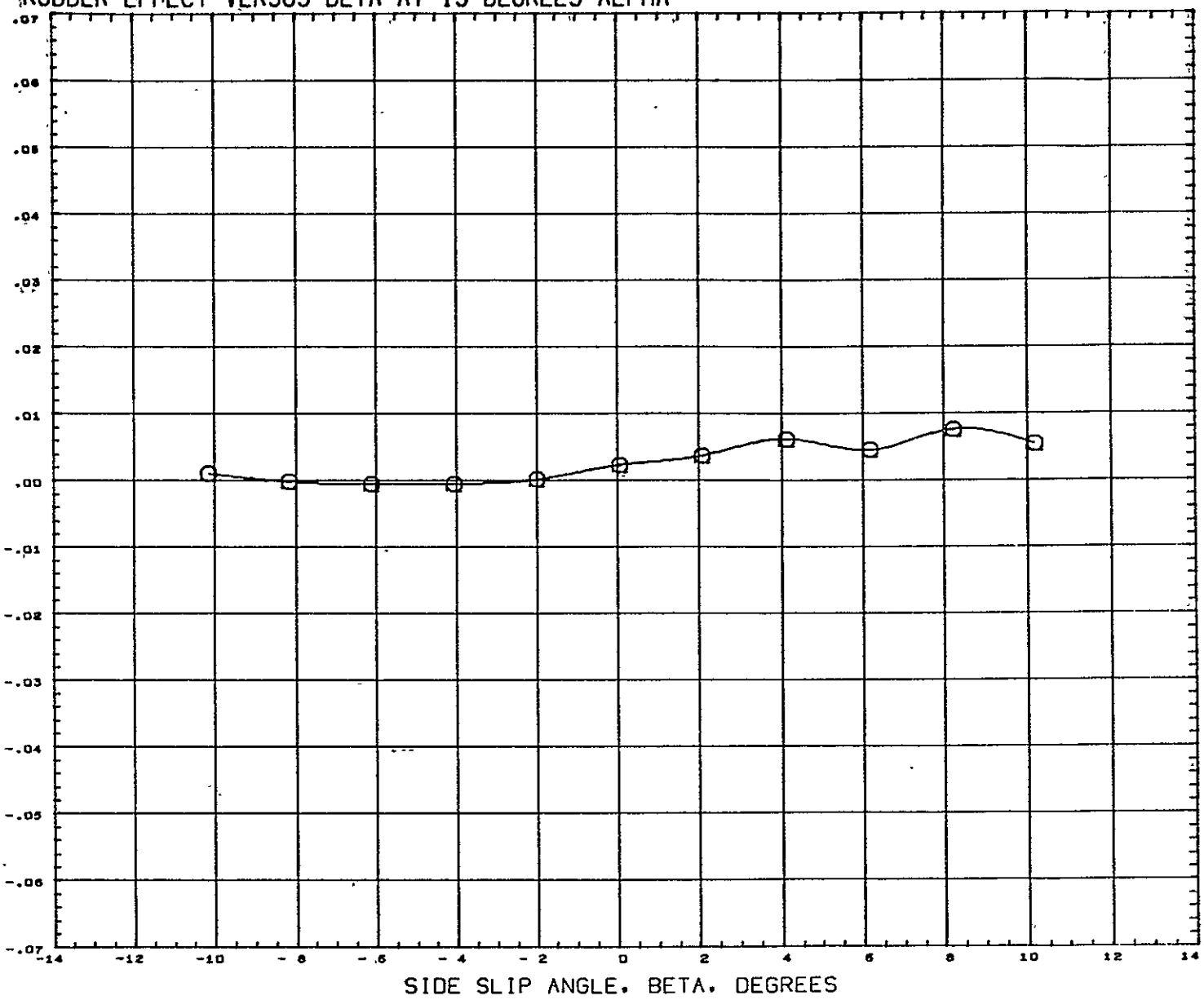


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.8950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.953

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

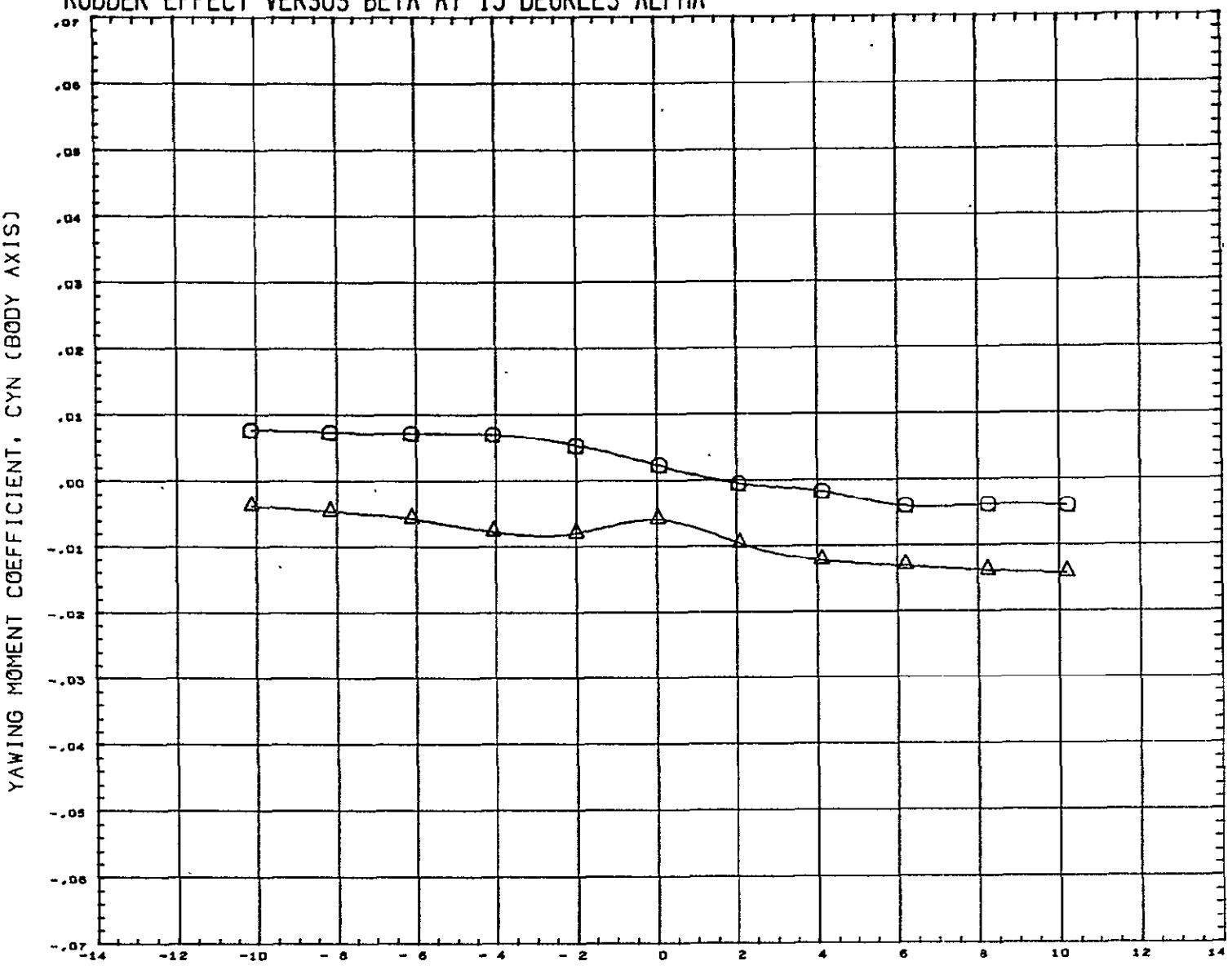


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)		MSFC401 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.000

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

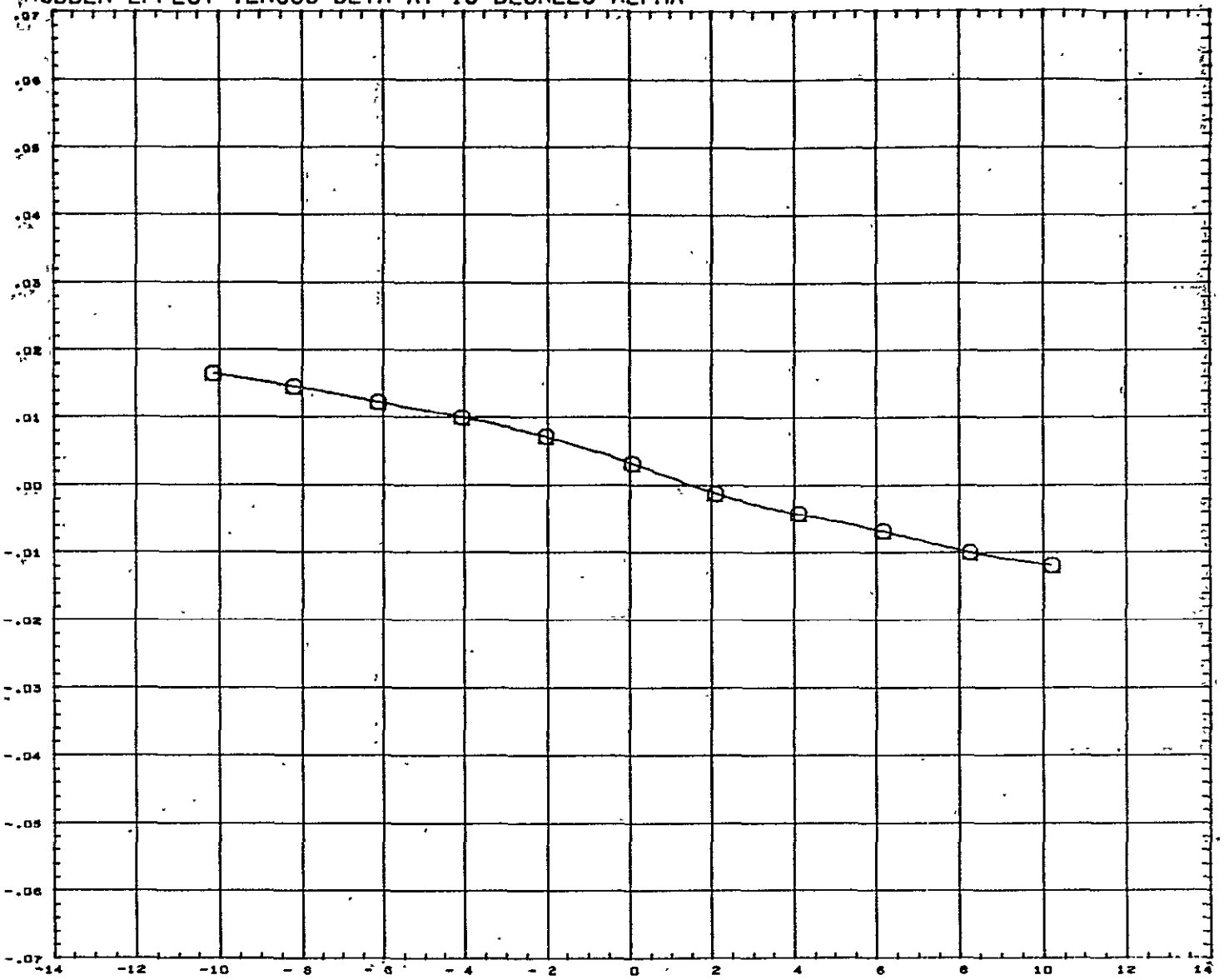


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

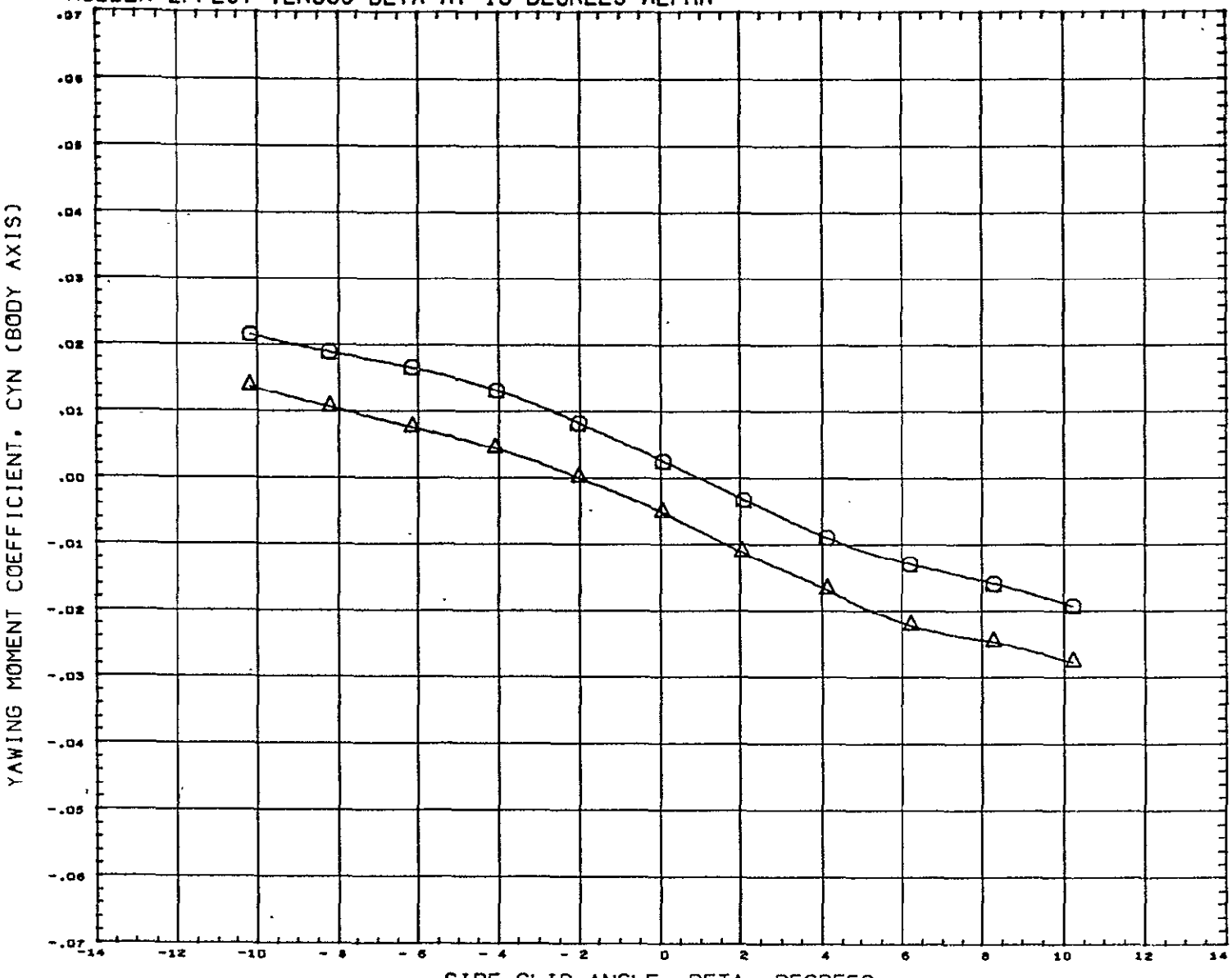


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0033	

MACH 1.096

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

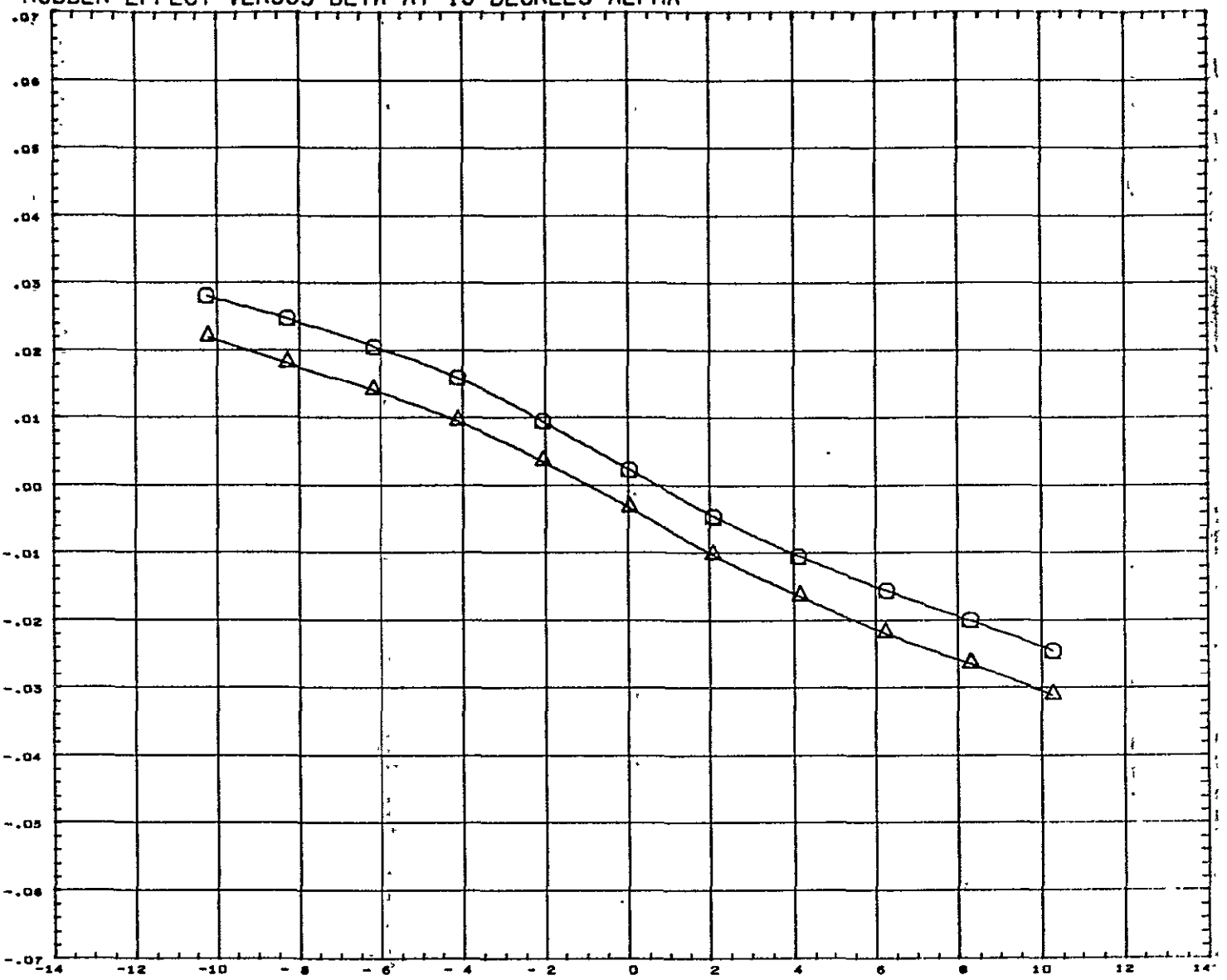


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.202

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

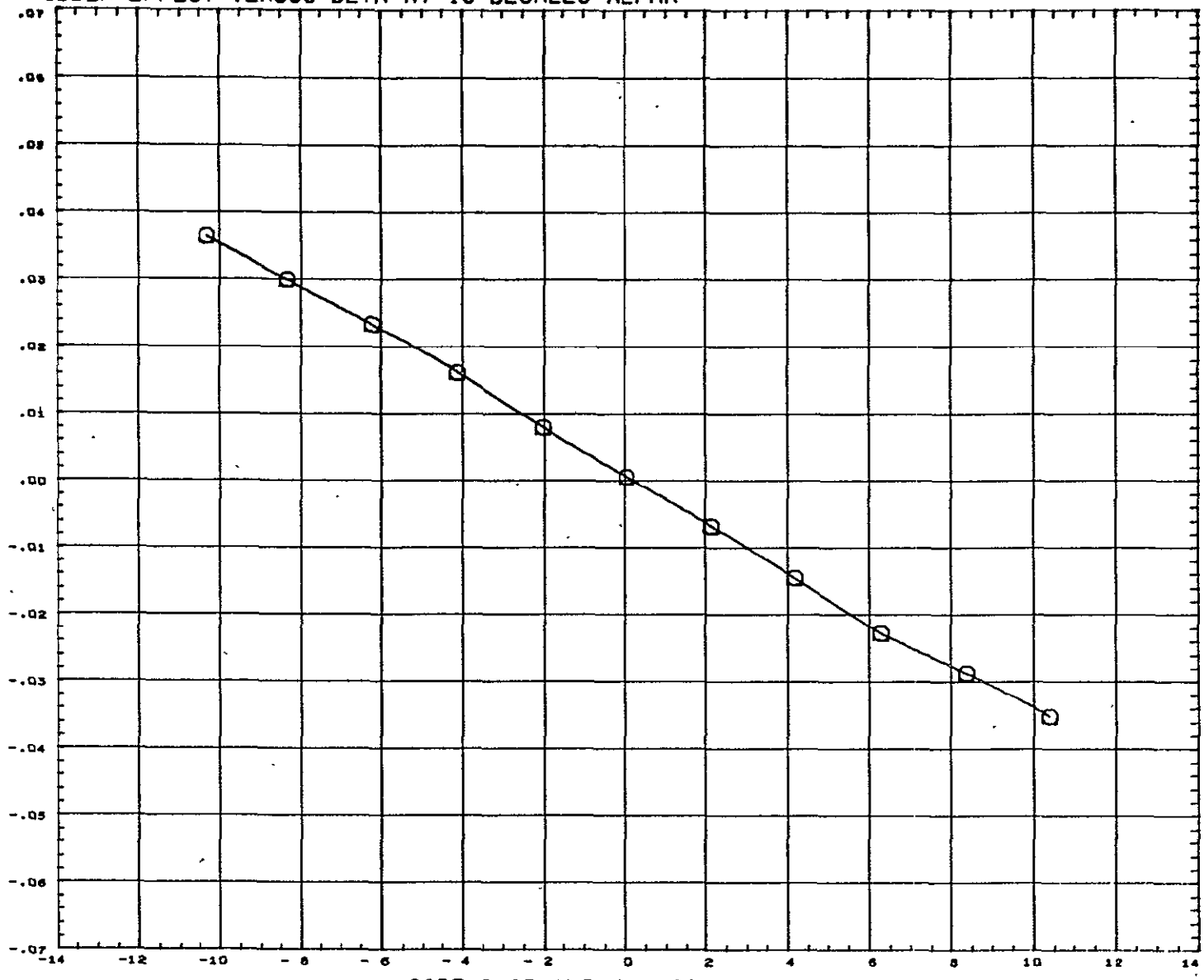


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

MACH 1.468

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

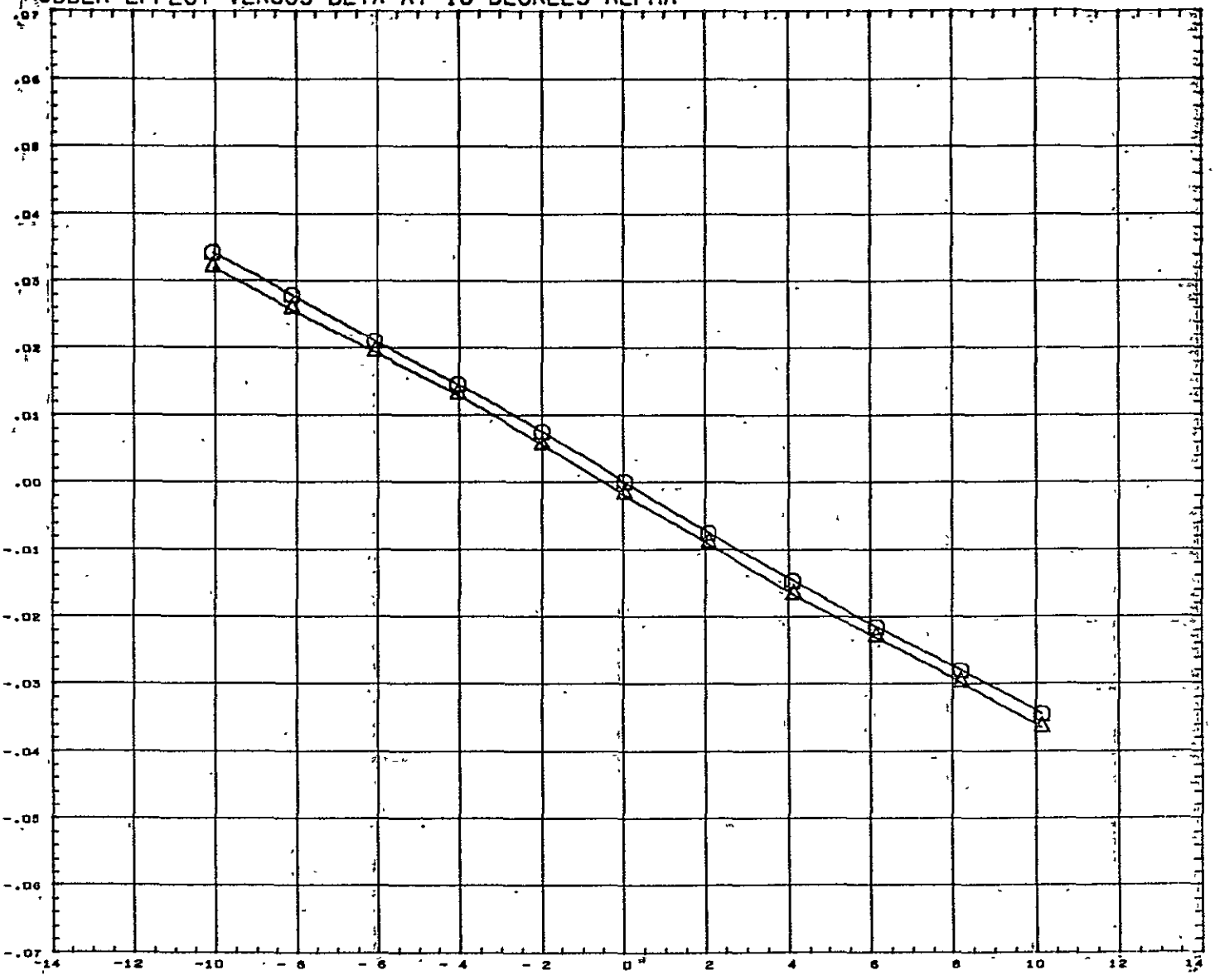


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)		M5FC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

MACH 1.966

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

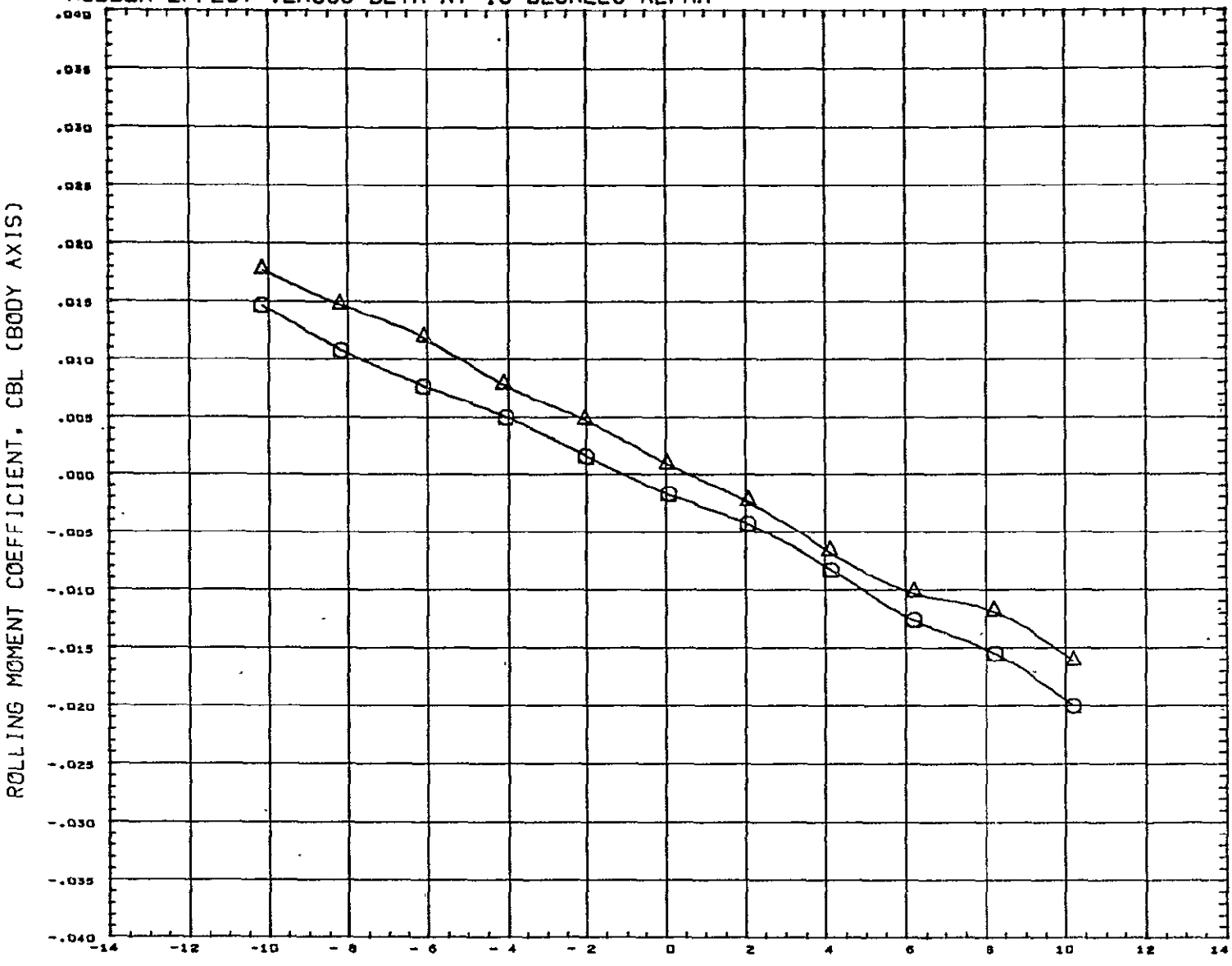


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

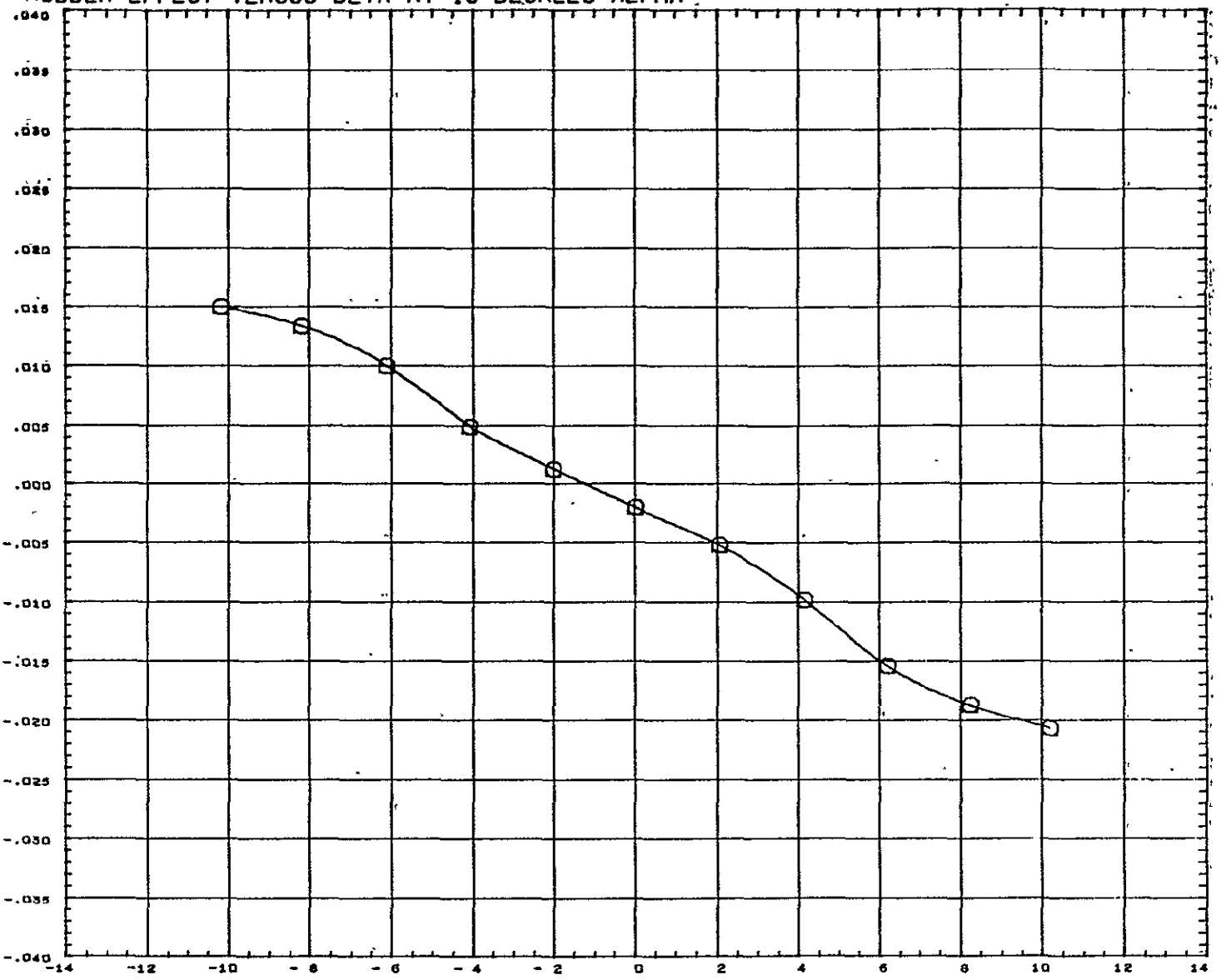


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	HSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	HSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.904

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

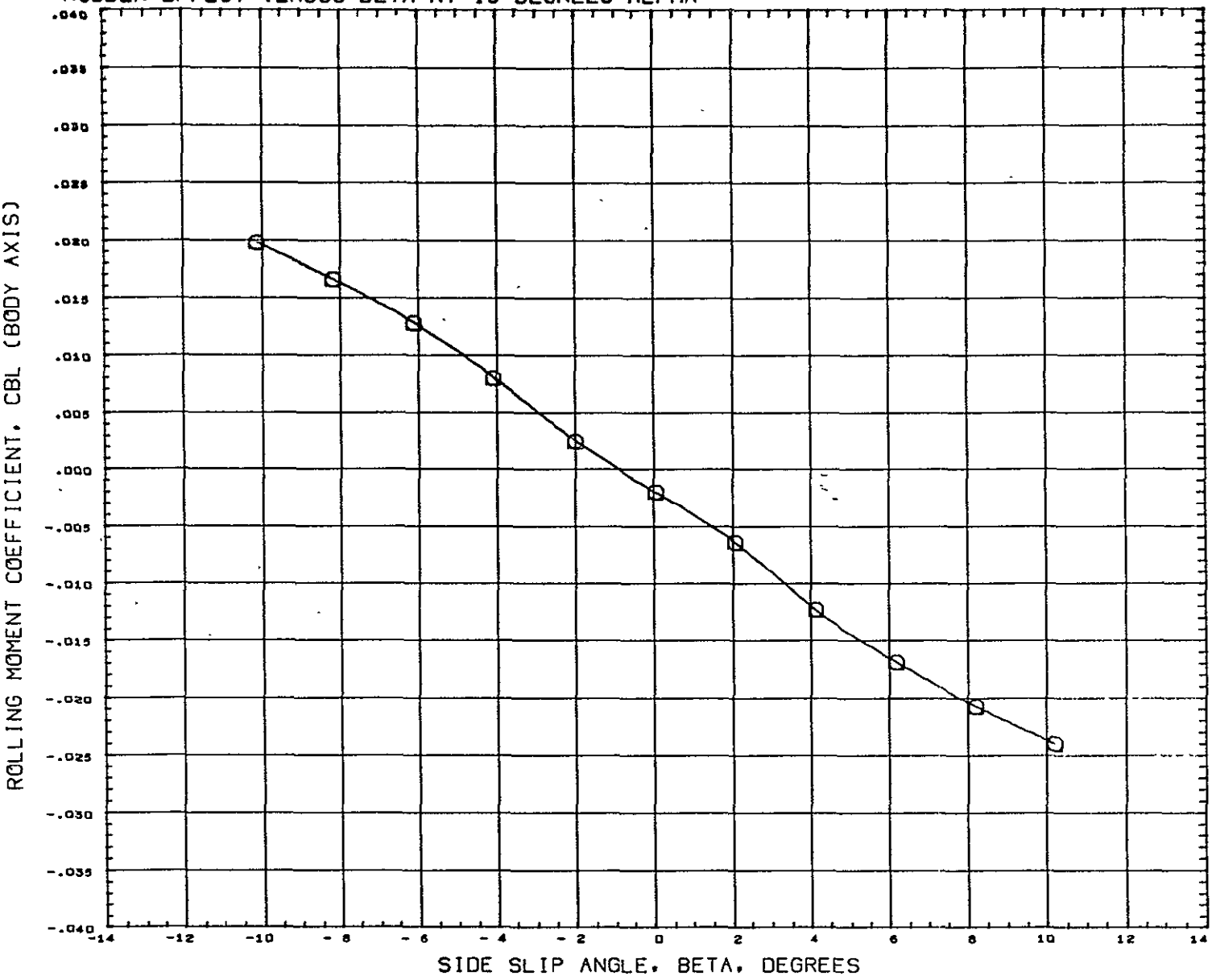


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0055	

MACH 0.953

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA



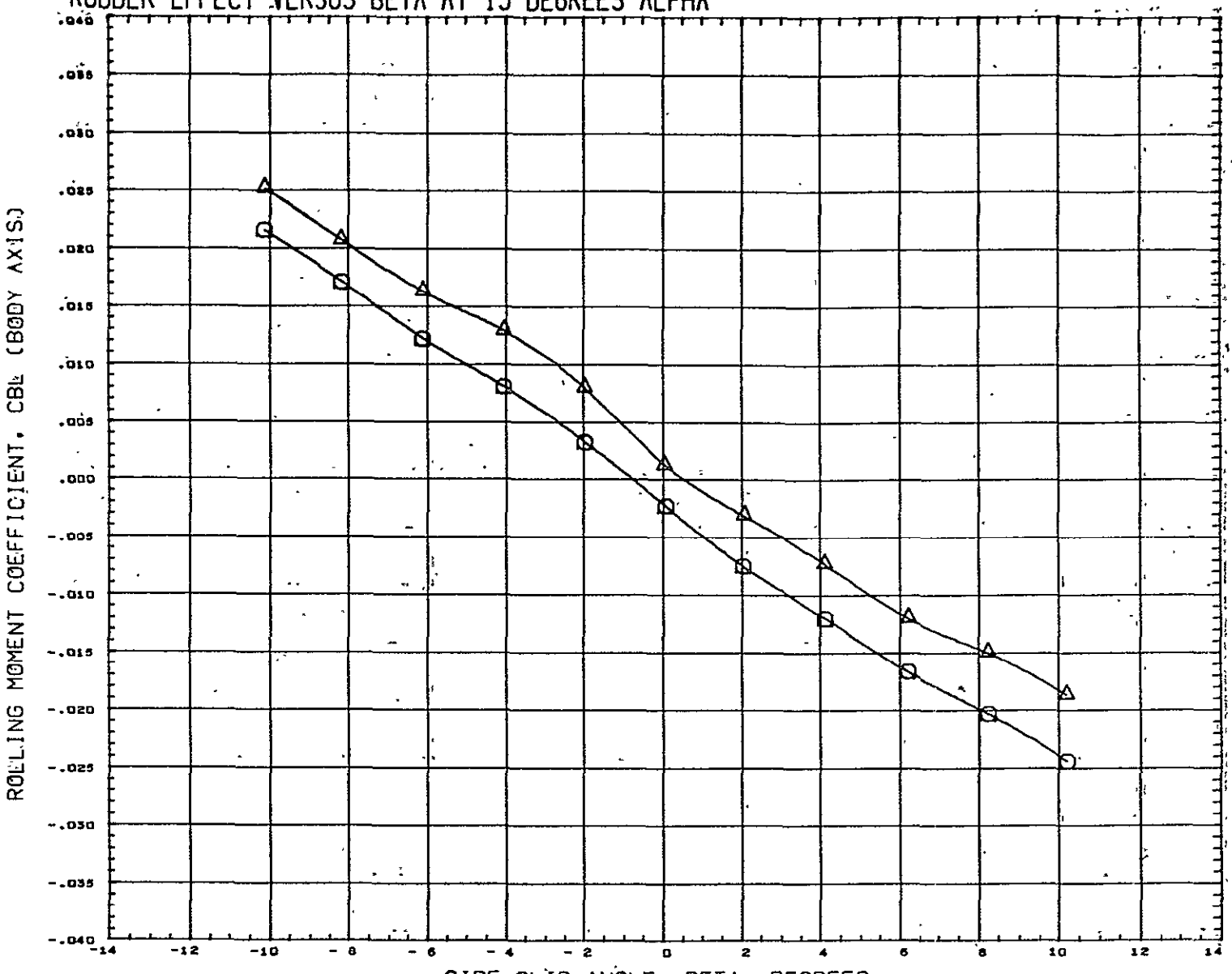
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7
(F28Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD	ELEVON	RUDDER
15.000	0.000	0.000	0.000
15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.000

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

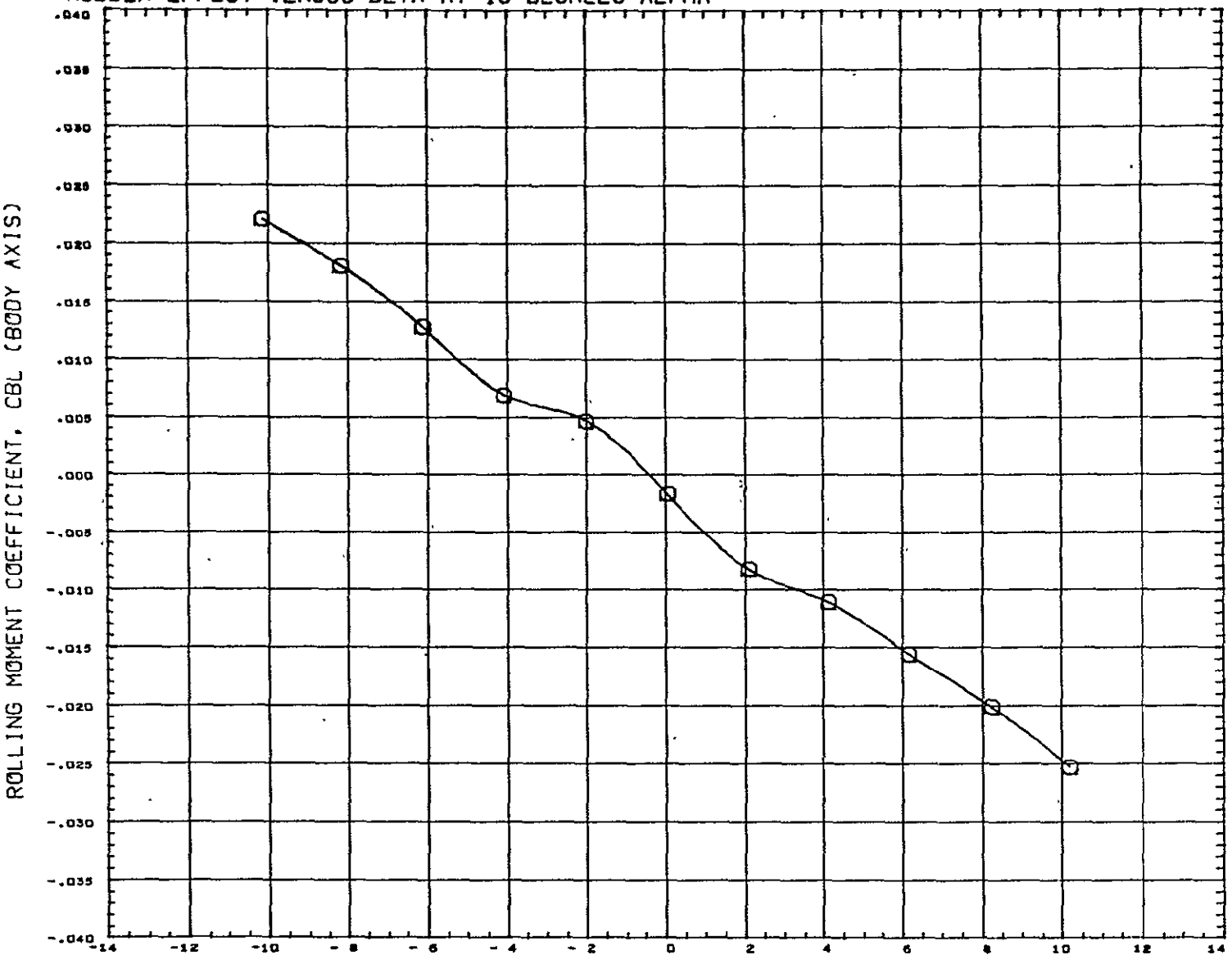


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

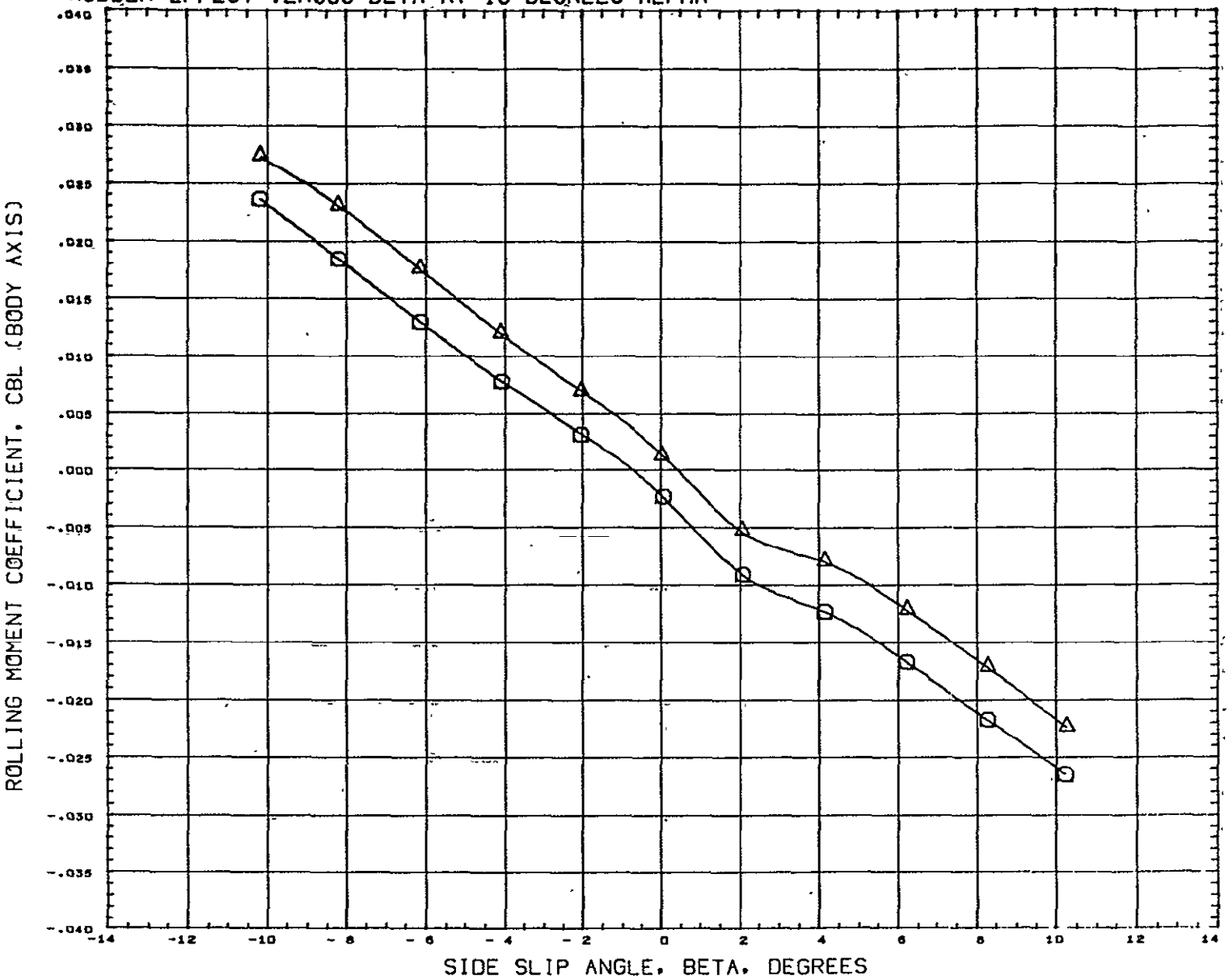


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.098

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

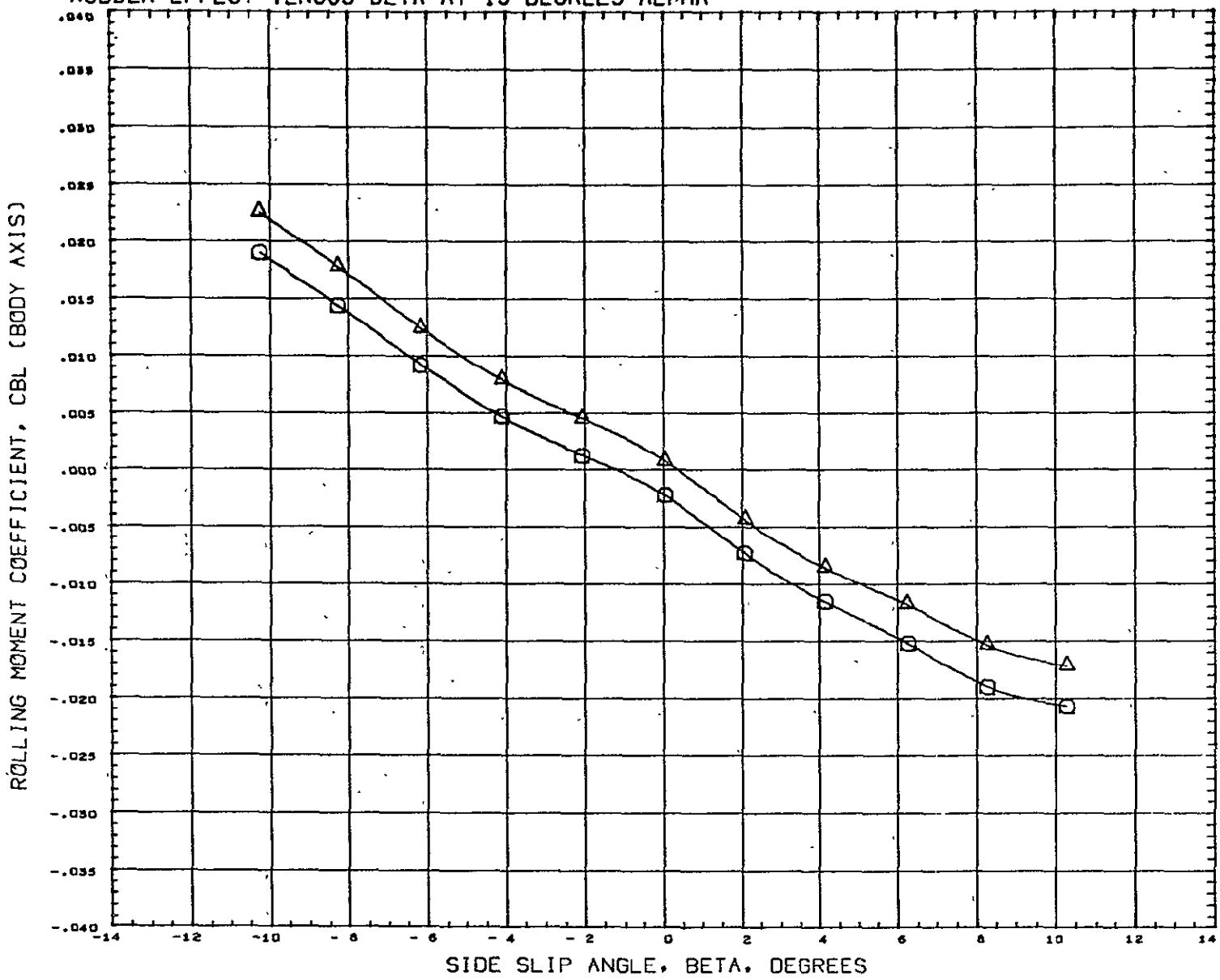


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.202

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

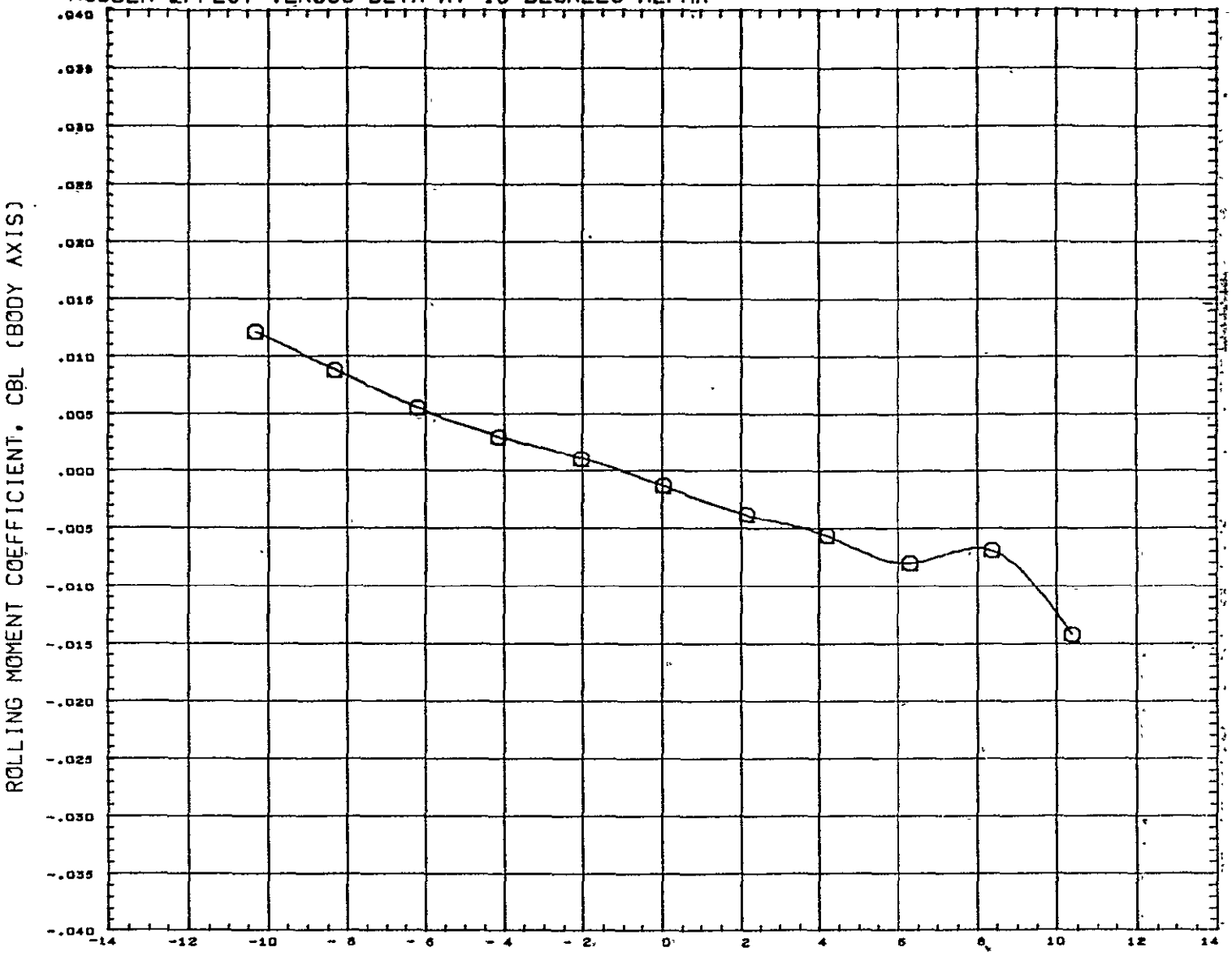


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.468

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

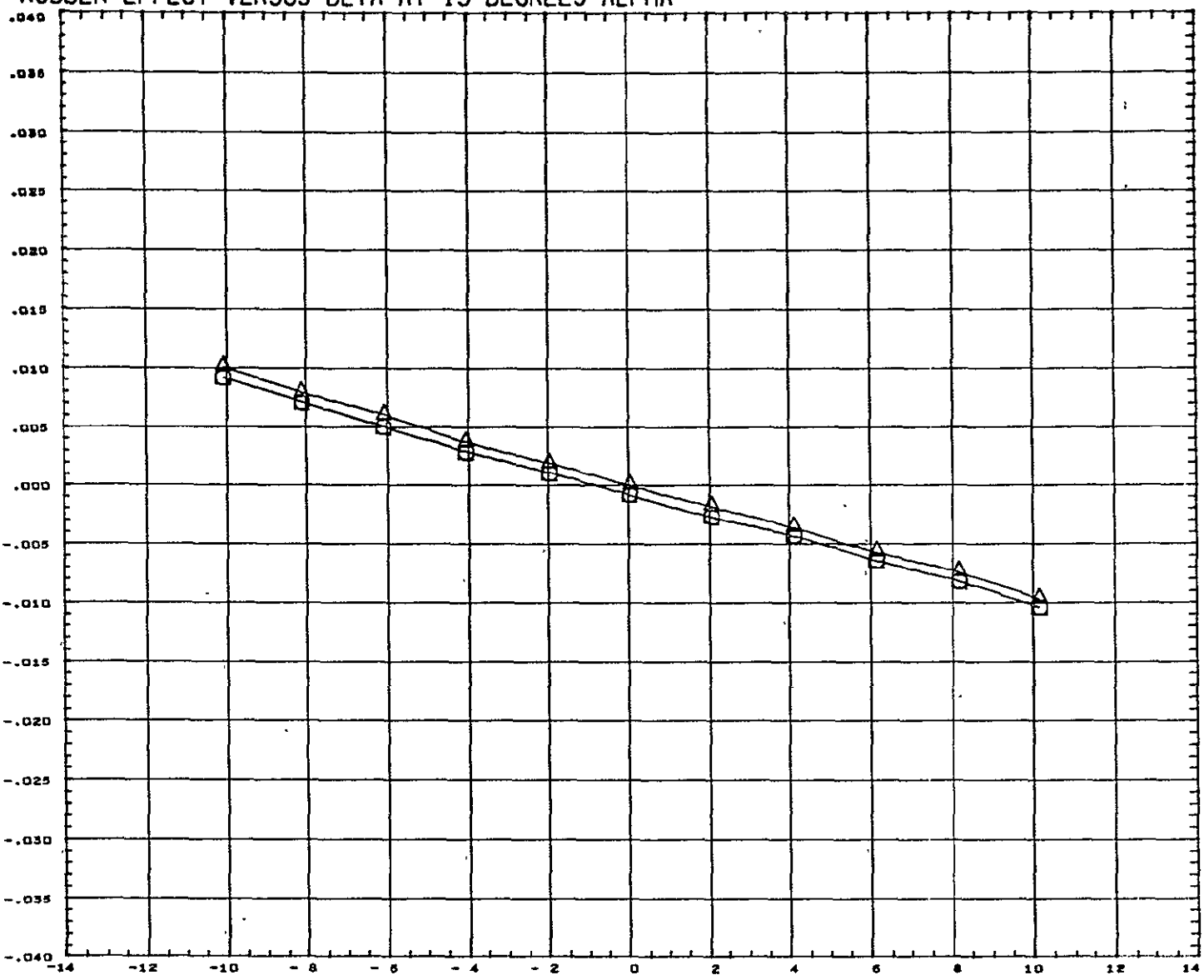


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)	○	NSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

MACH 1.966

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

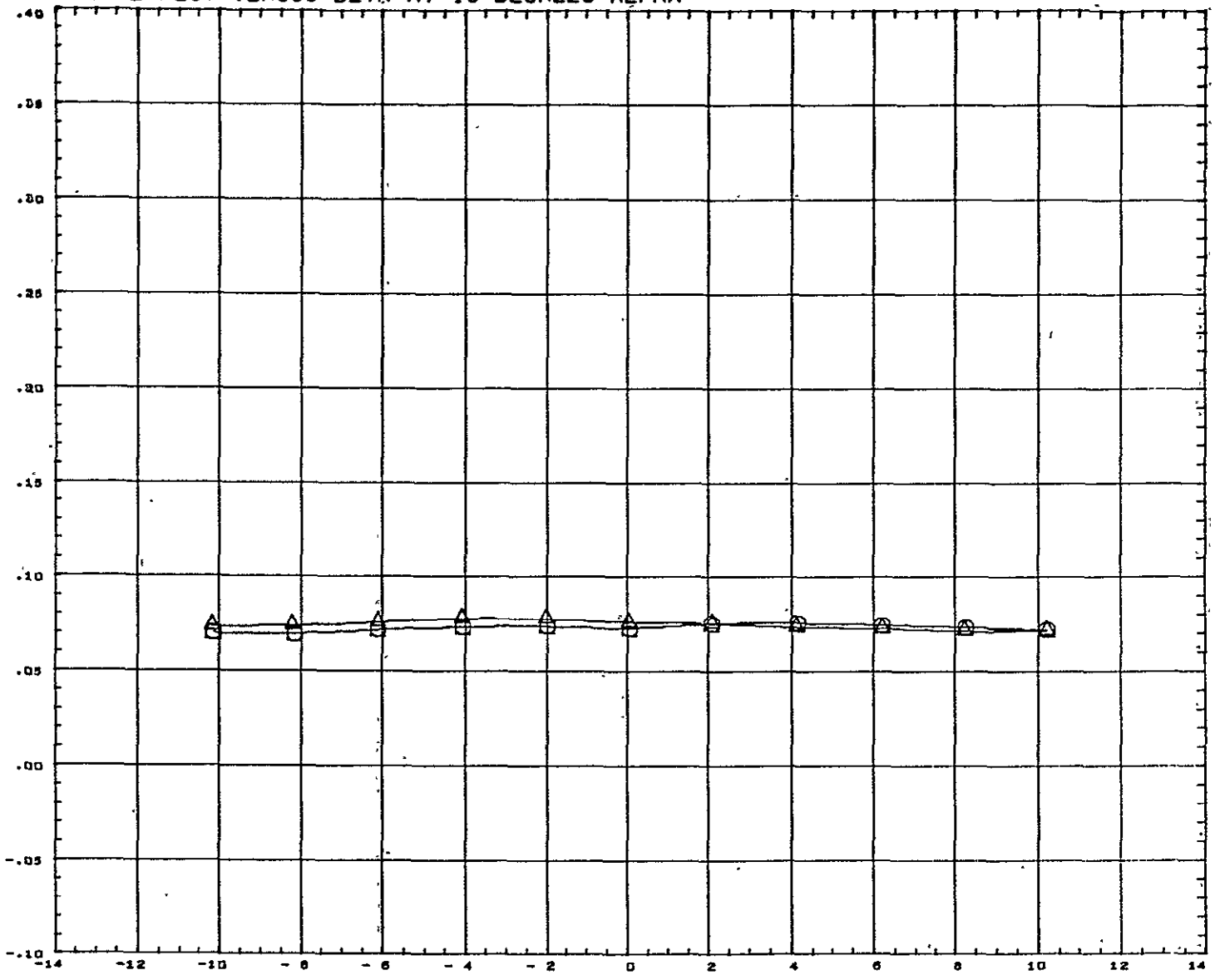
SIDE SLIP ANGLE, BETA, DEGREES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

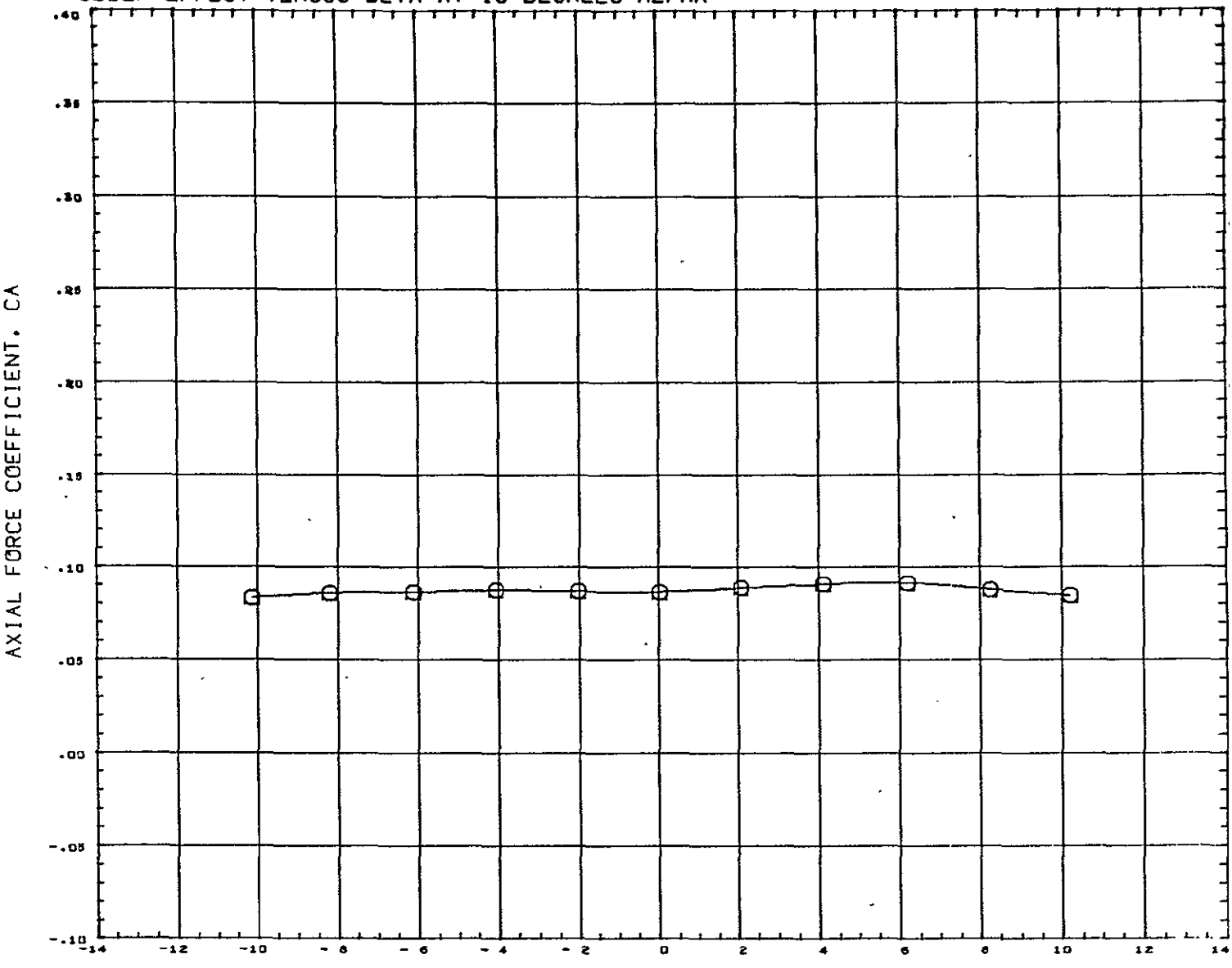


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

MACH 0.904

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

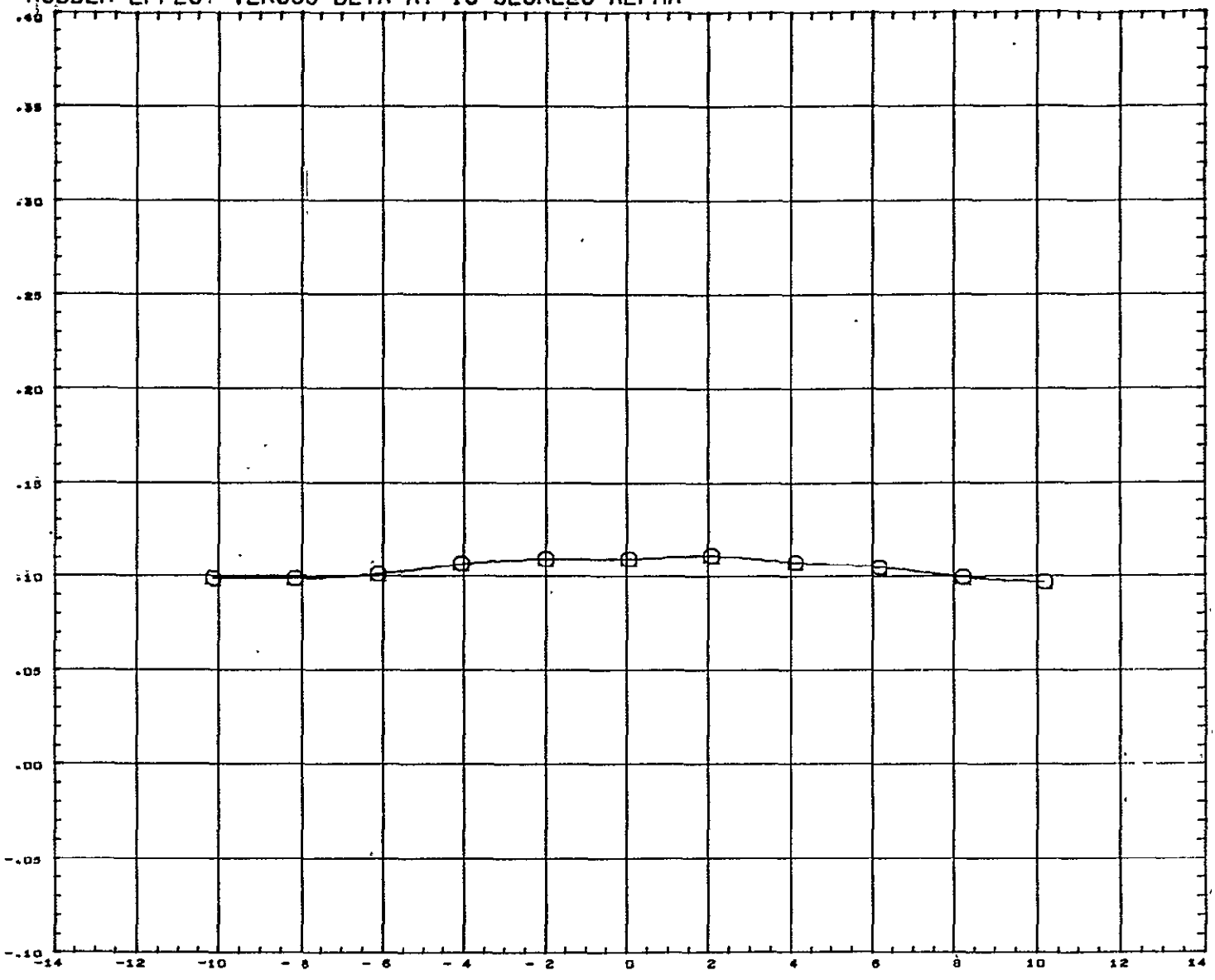


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.953

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

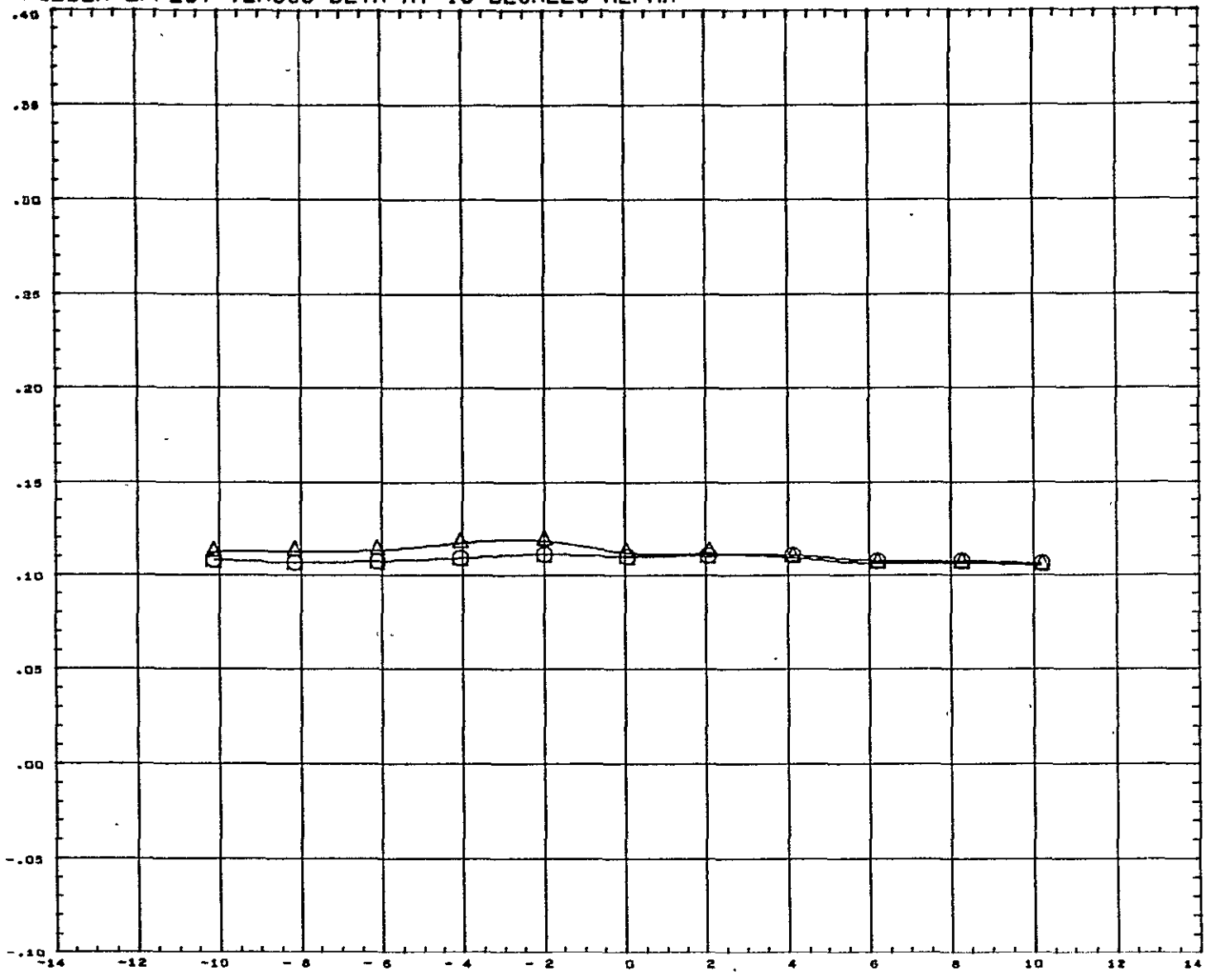


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

MACH 1.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

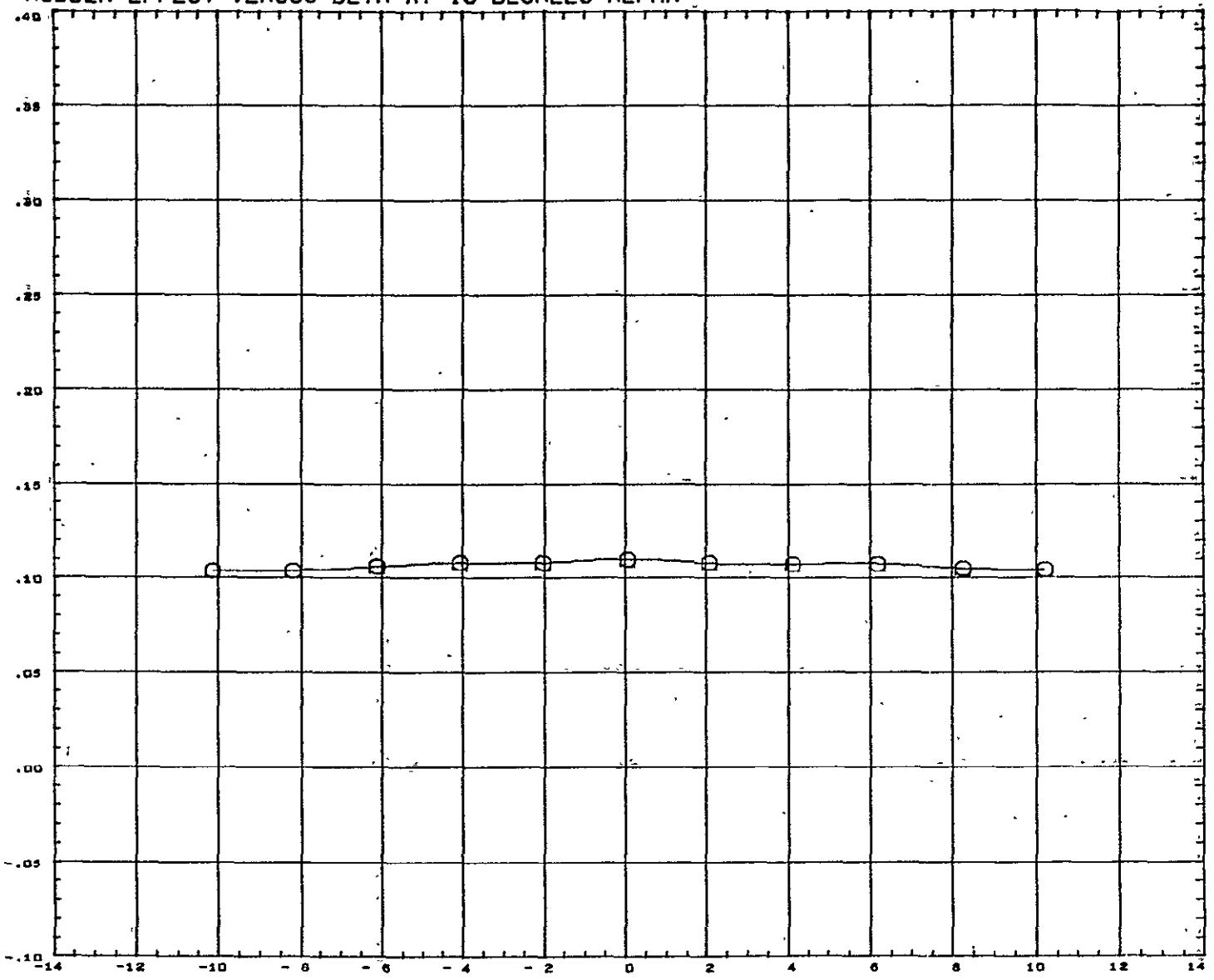


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0055	

MACH 1.051

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

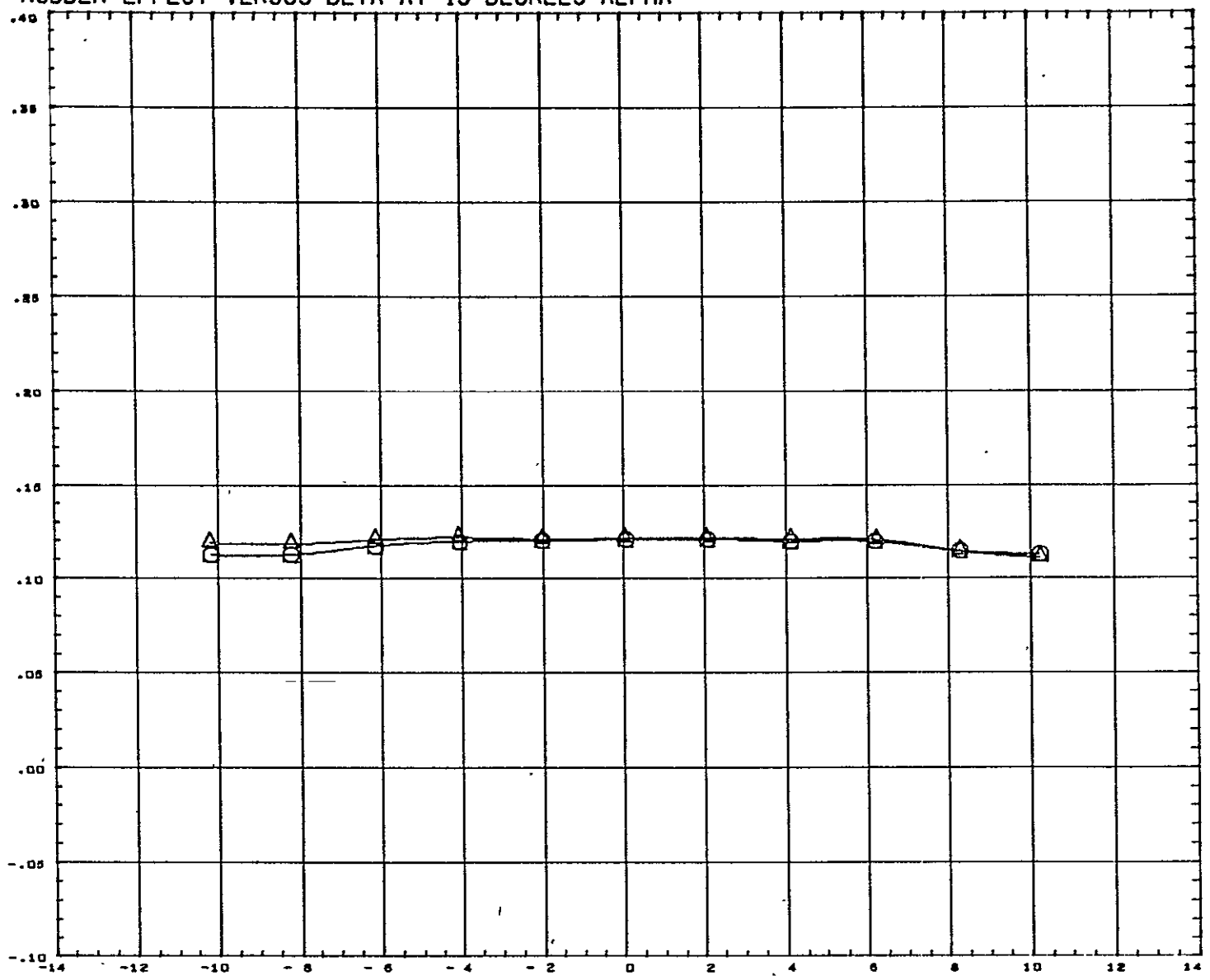


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC461 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

MACH 1.098

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

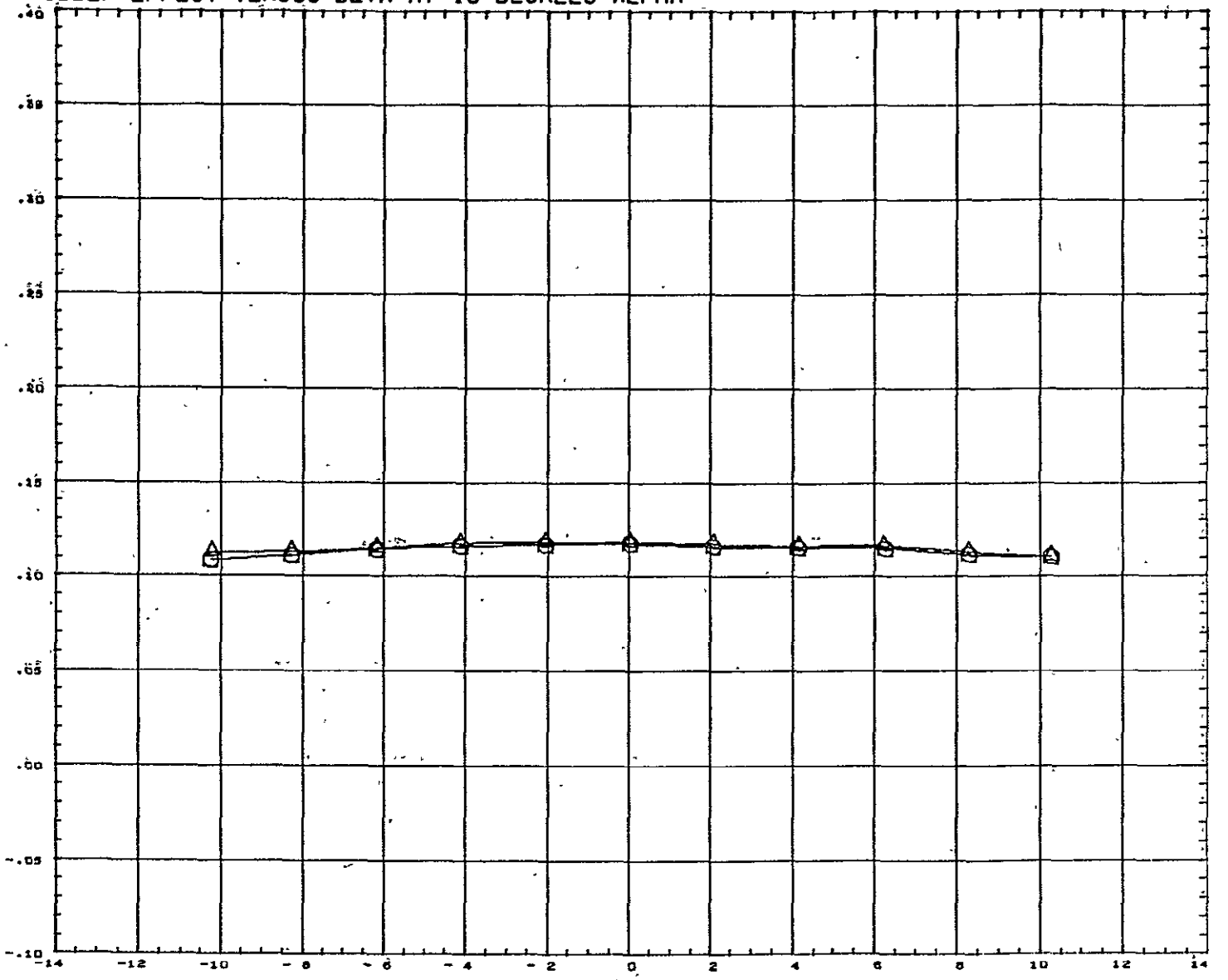


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.202

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

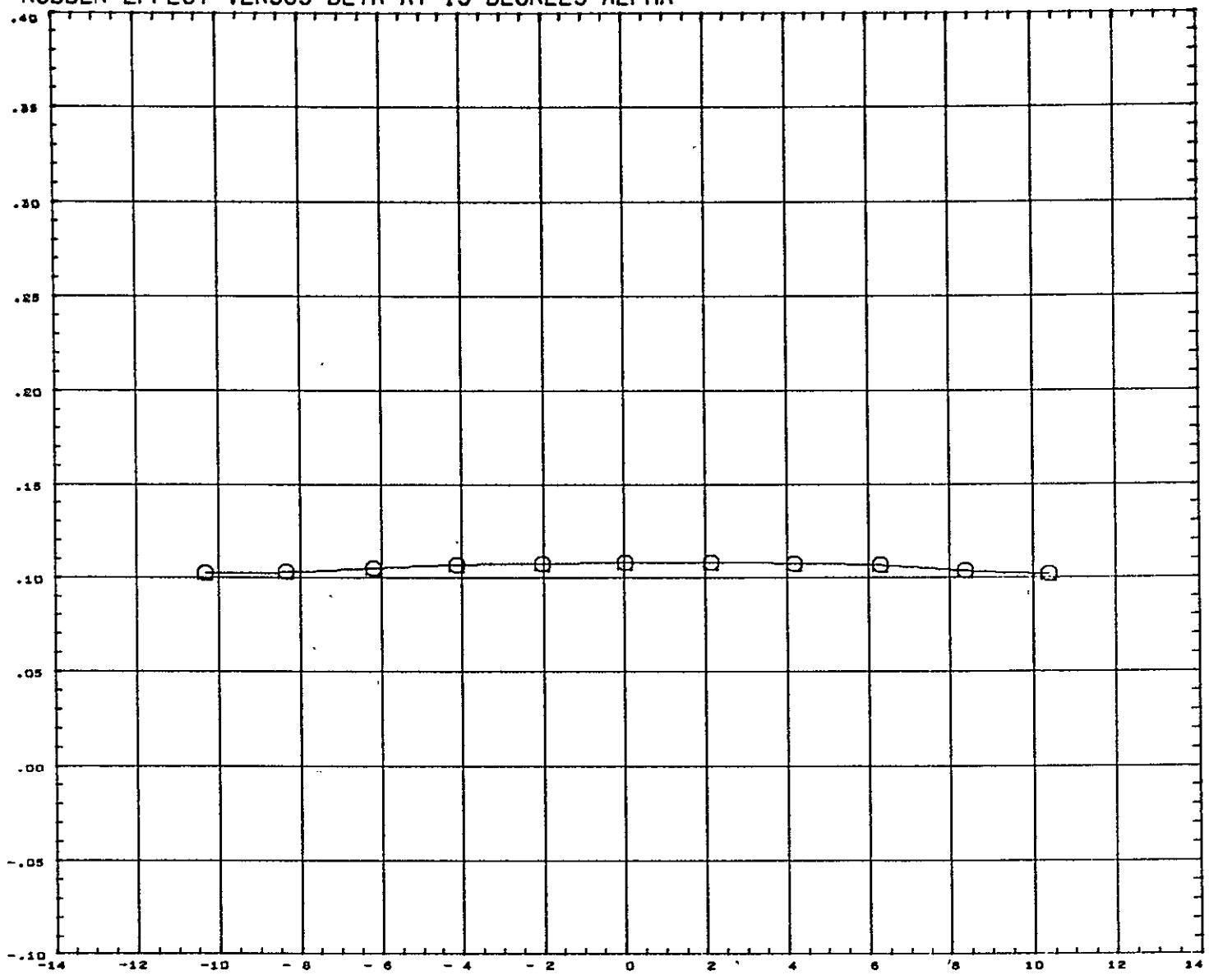


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.468

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

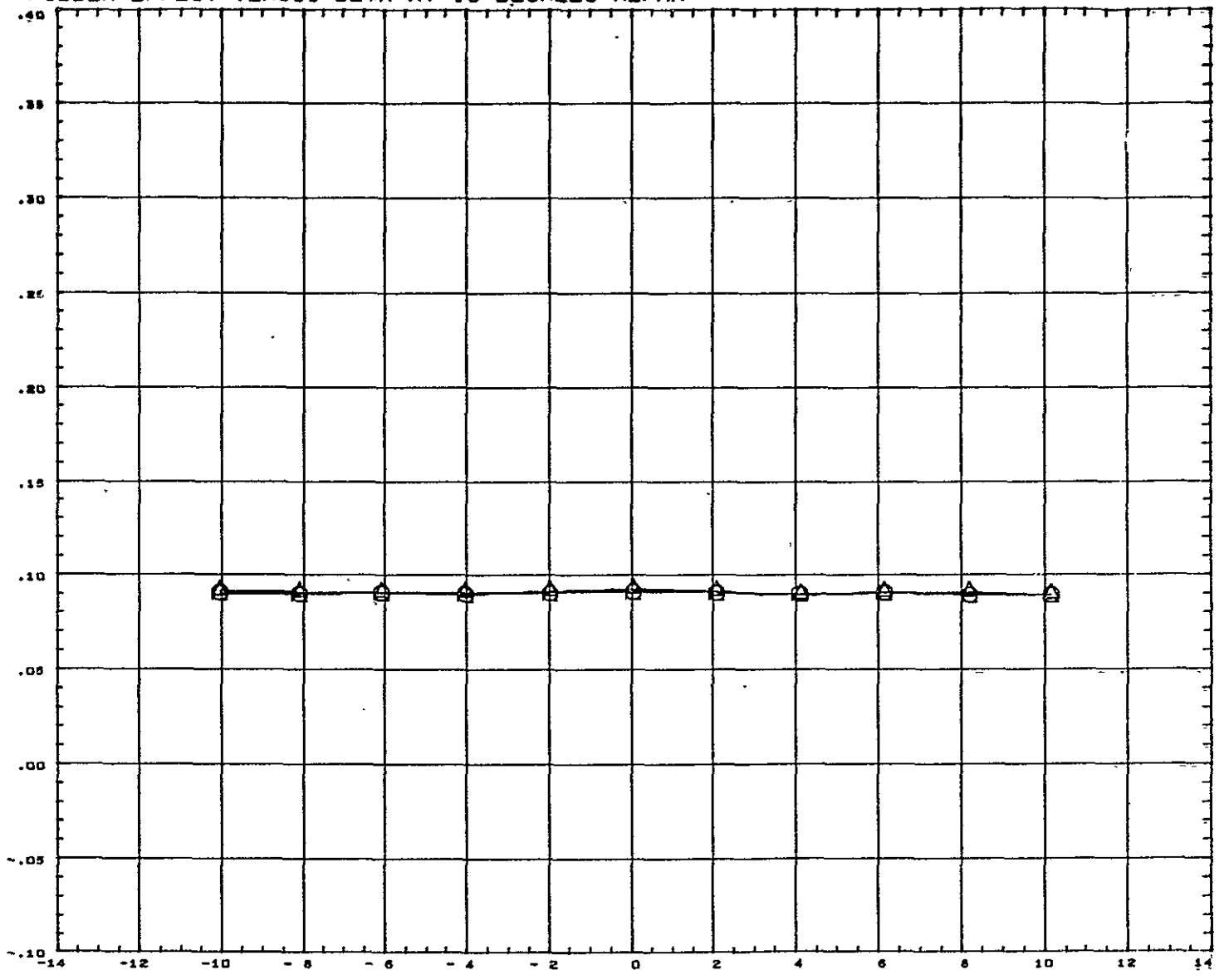


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F20Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F20Y22)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

MACH 1.966

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

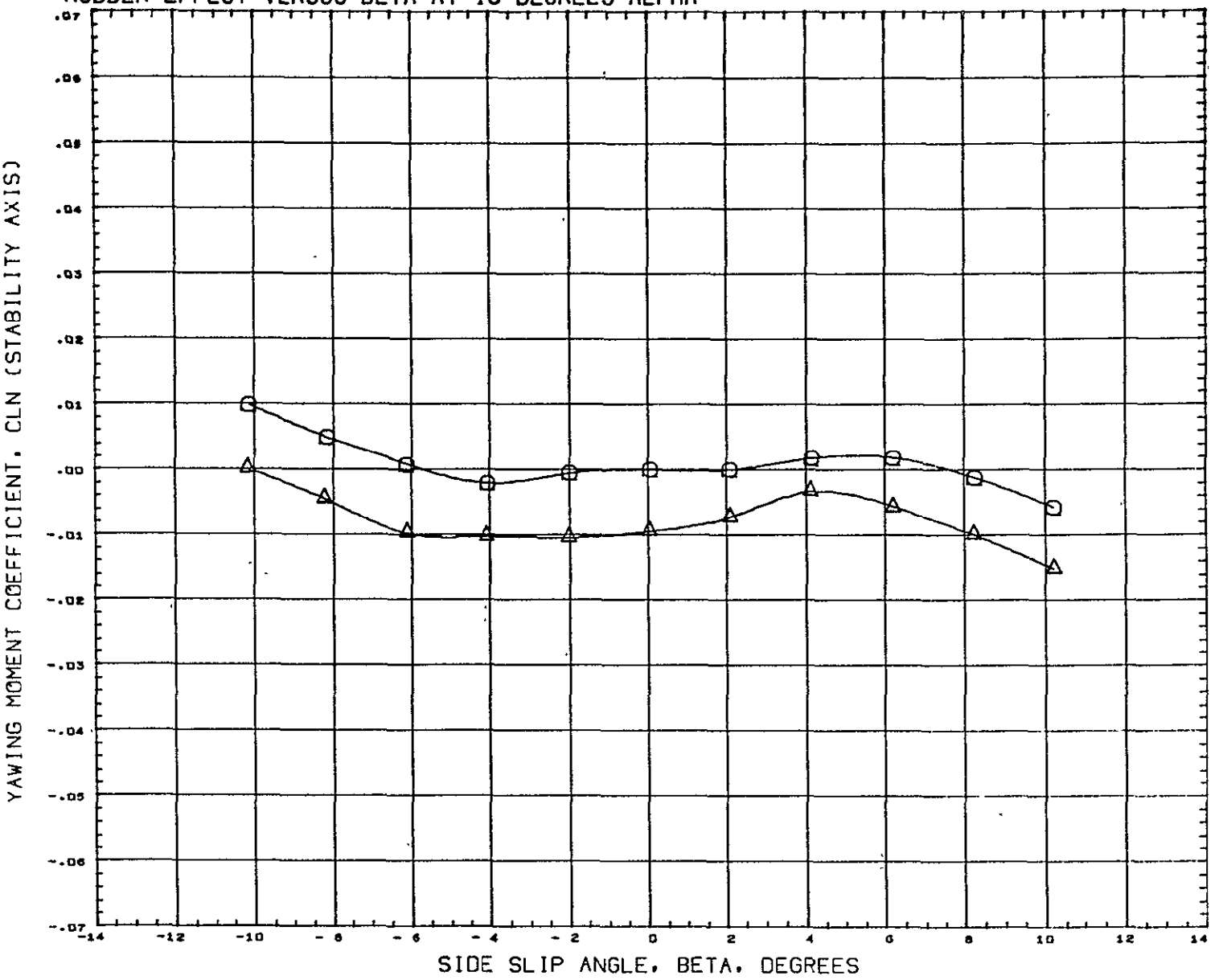


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

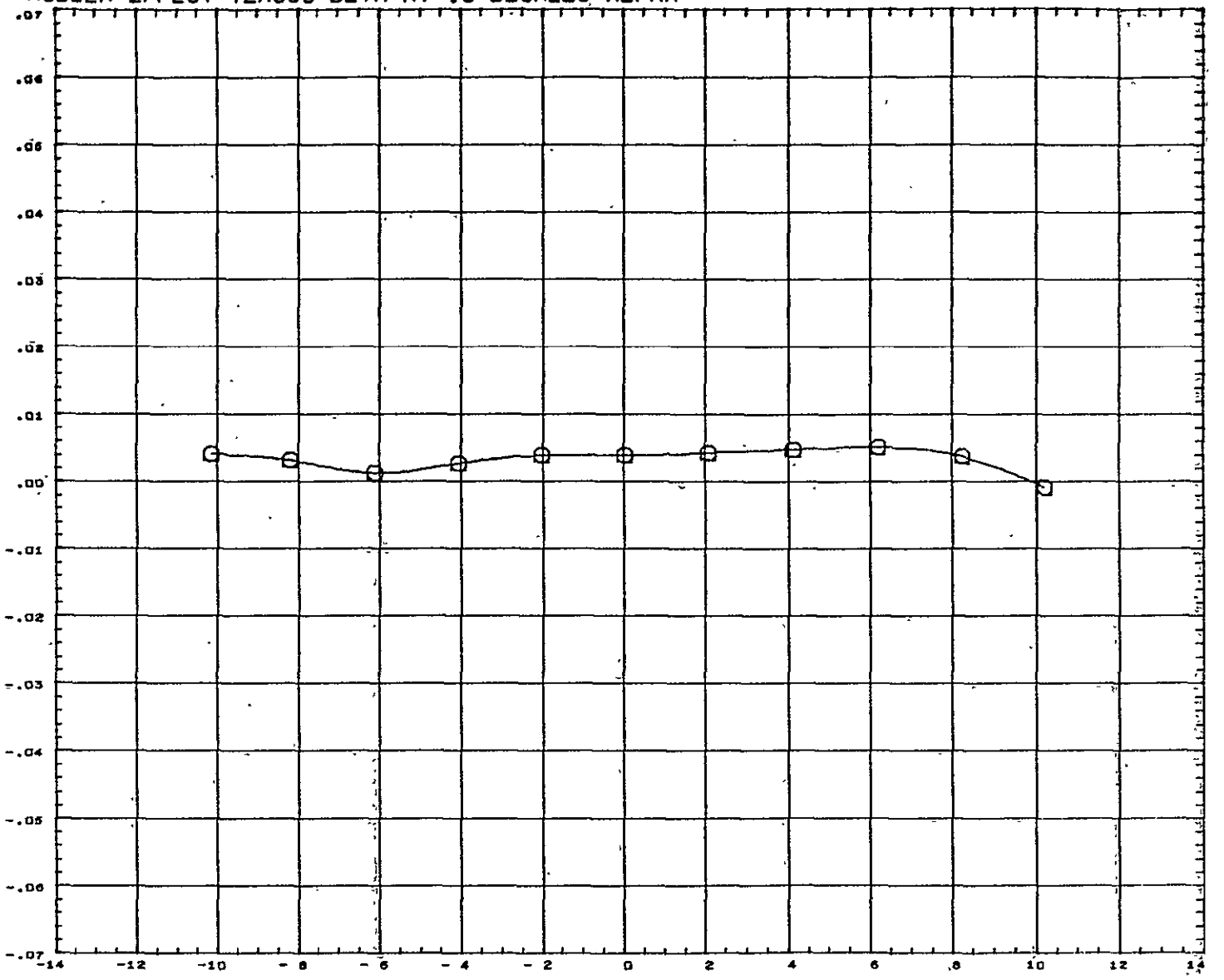


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

MACH 0.904

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

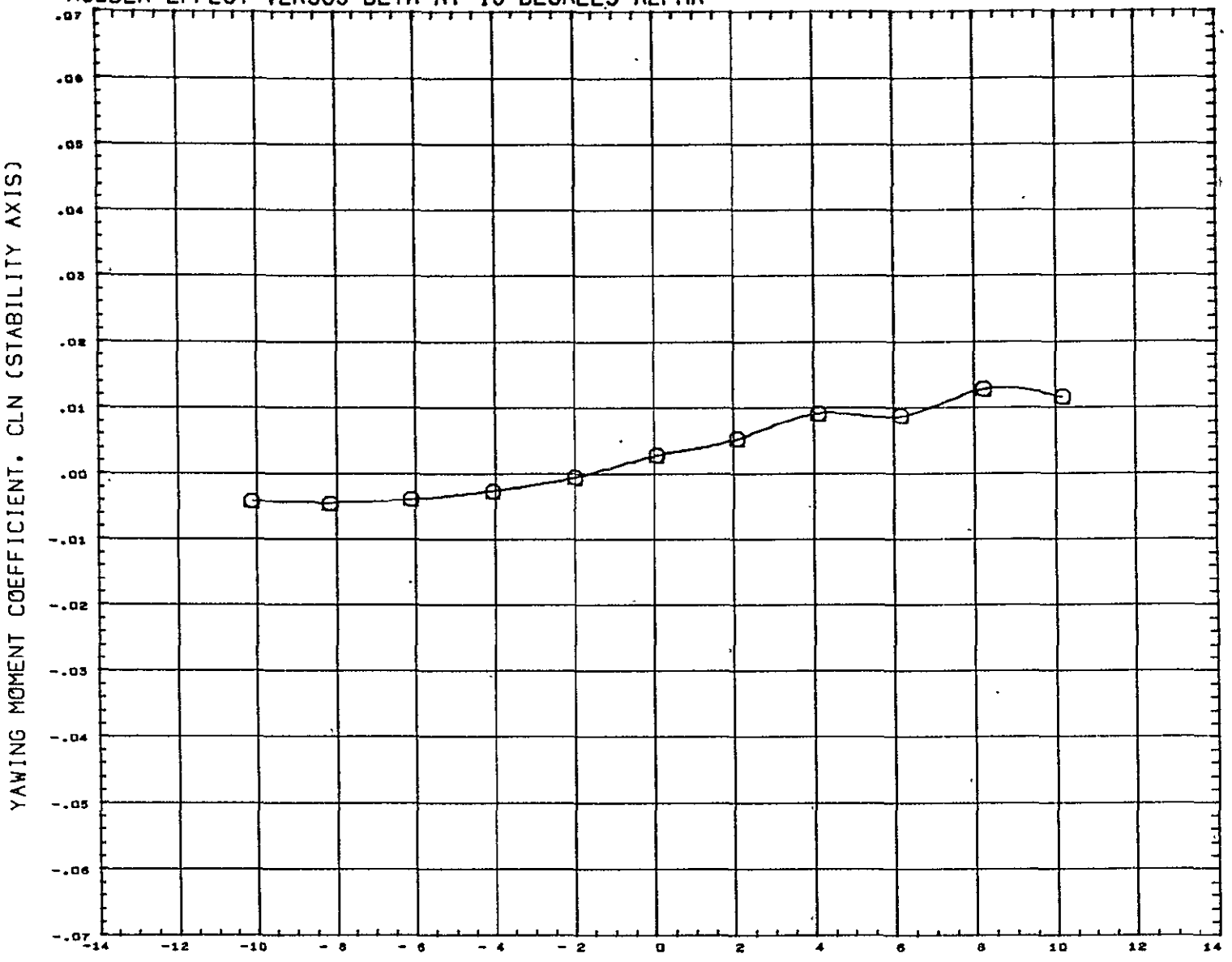


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

MACH 0.953

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0055	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

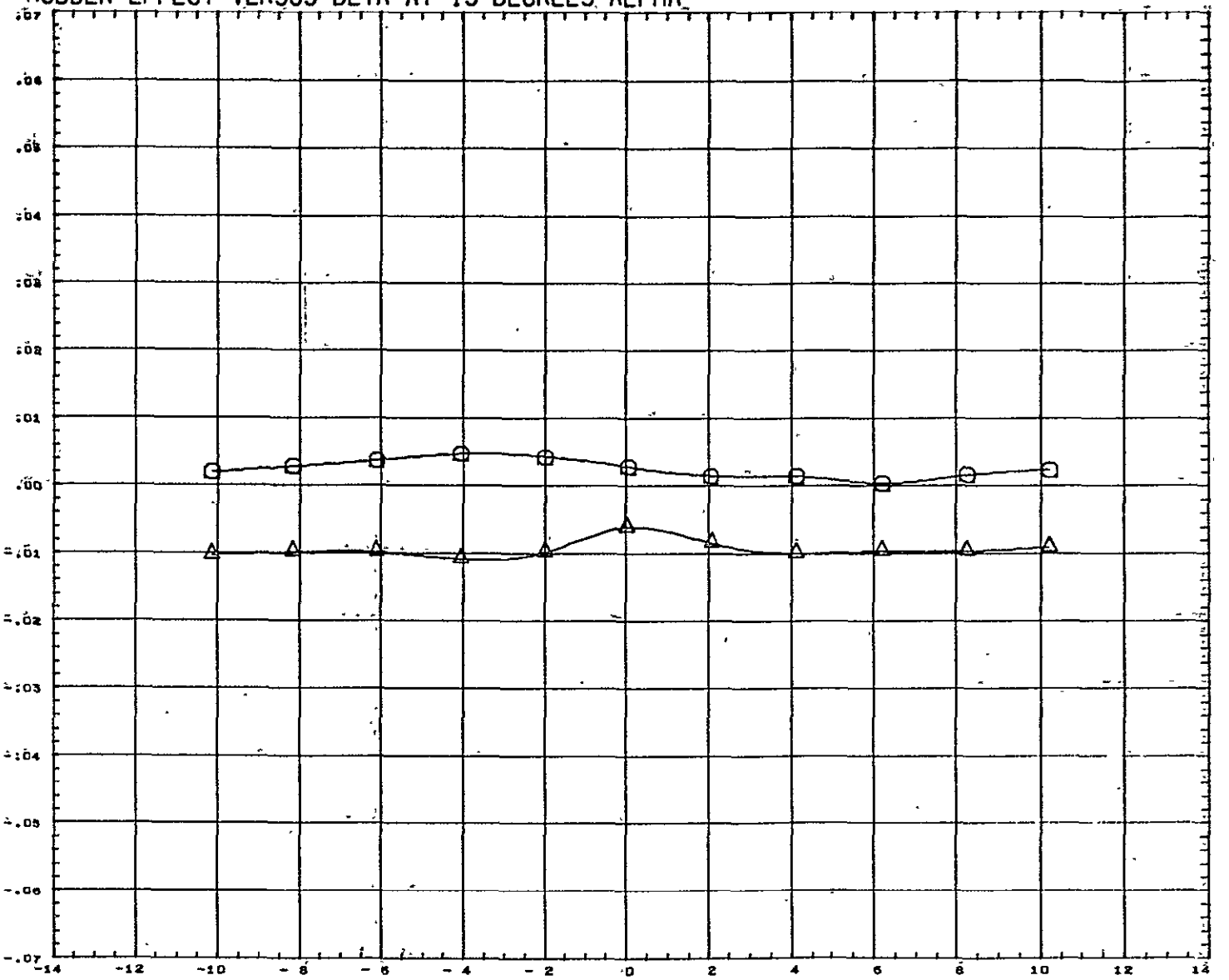


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

MACH 1.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

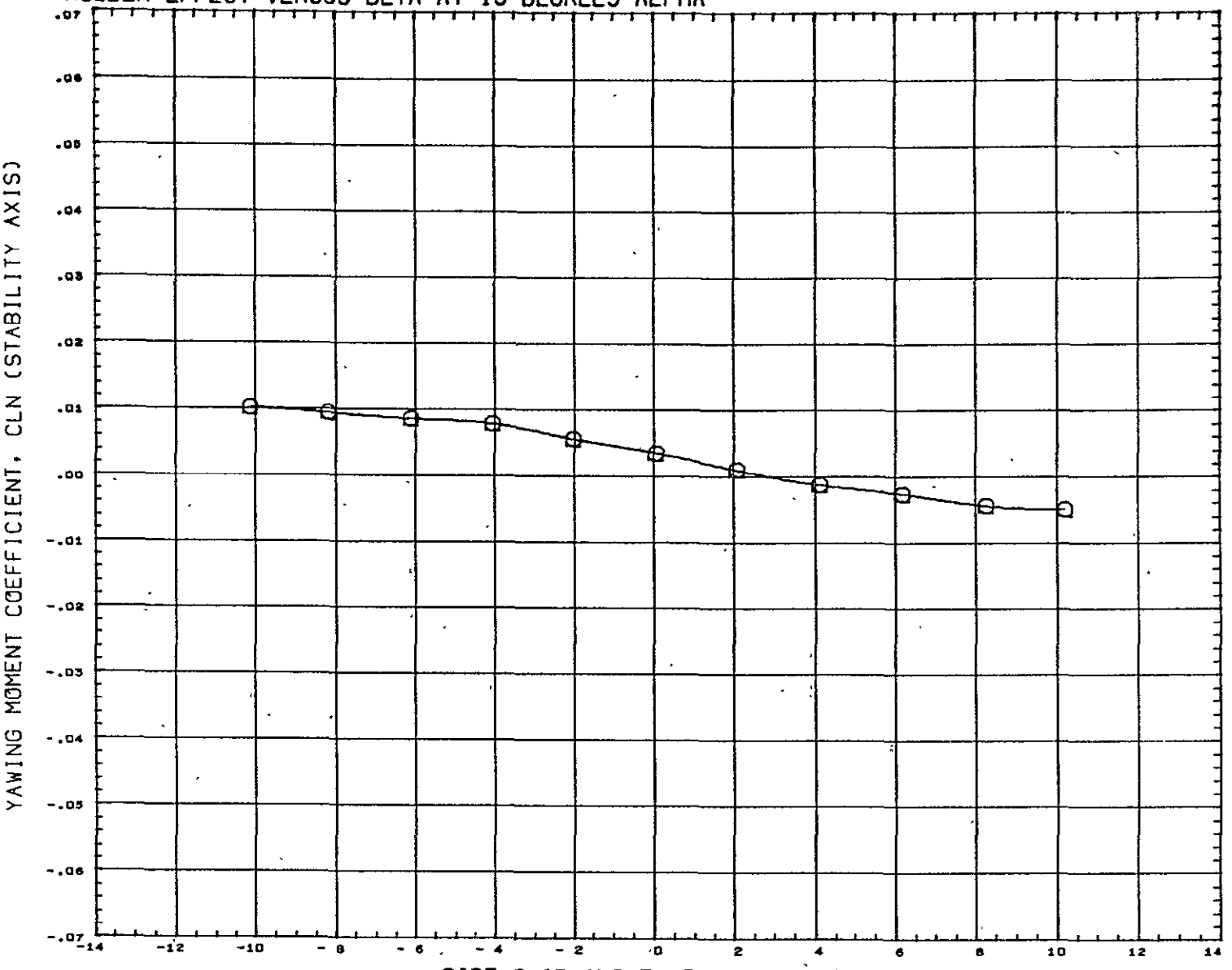


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0033	

MACH 1.051

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

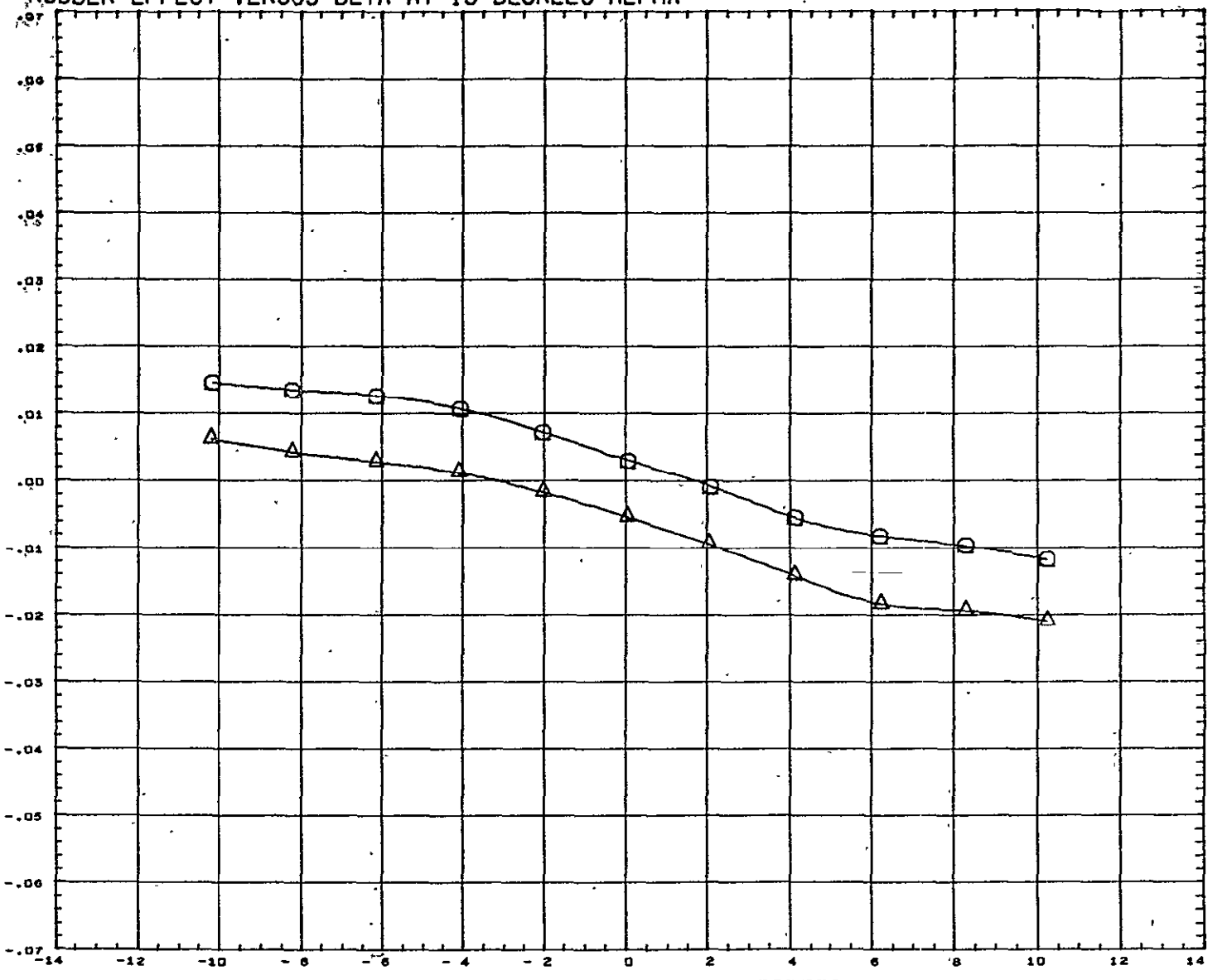


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	⍜	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	⍙	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	-0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.098

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

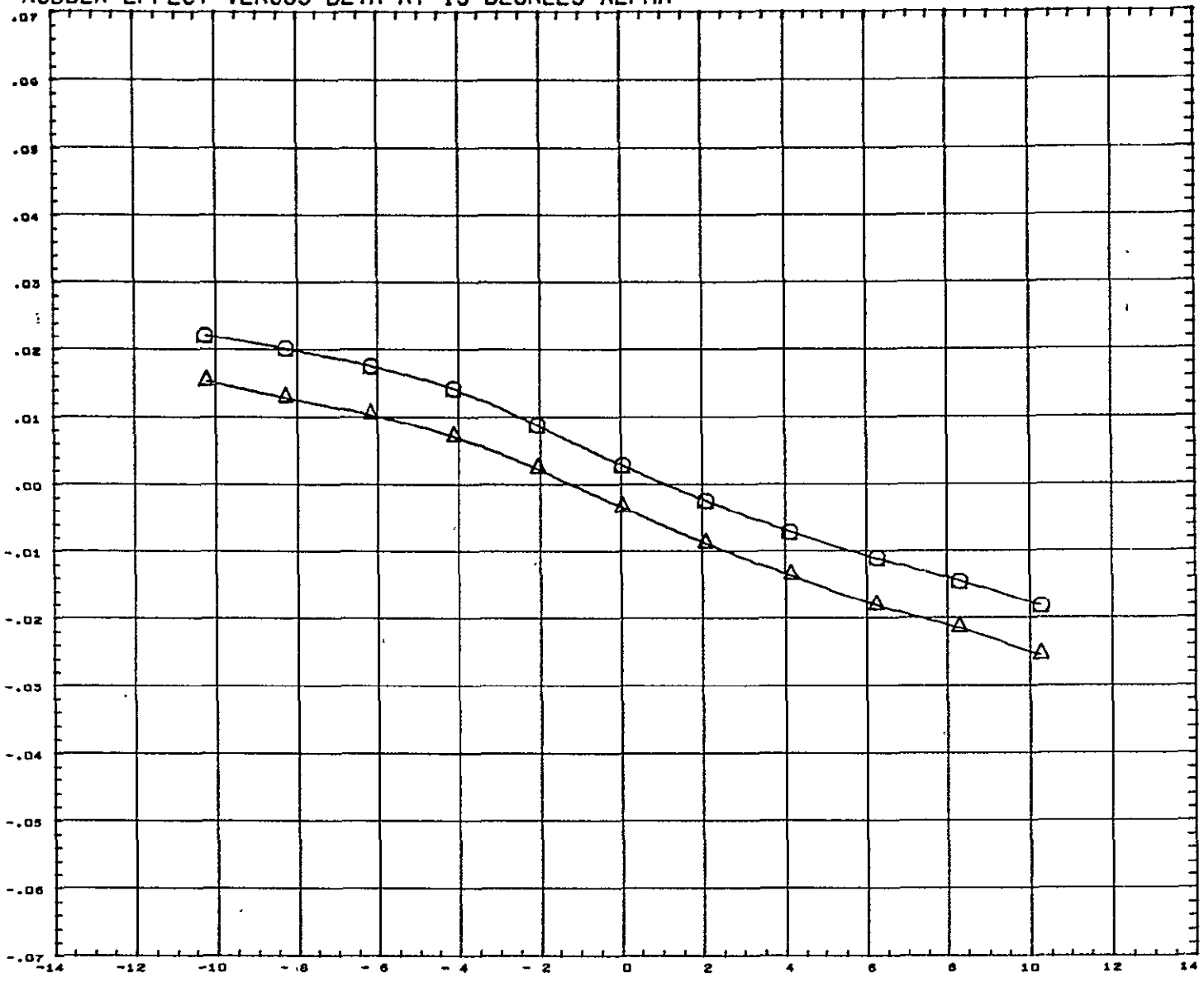


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.202

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

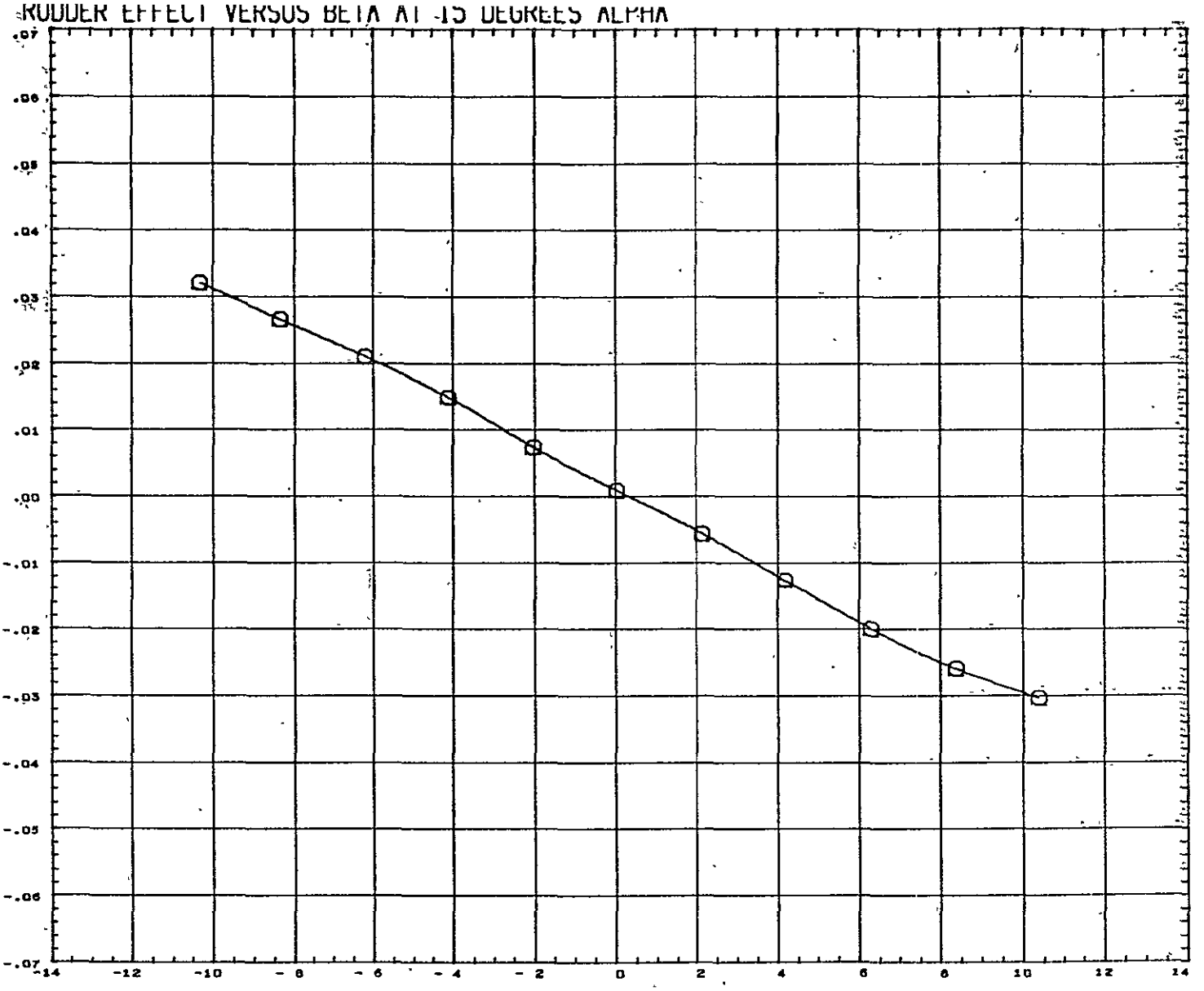


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.468

RUDDER EFFECT VERSUS BETA AT -15 DEGREES ALPHA



YAWING MOMENT COEFFICIENT, CLN (STABILITY AXIS)

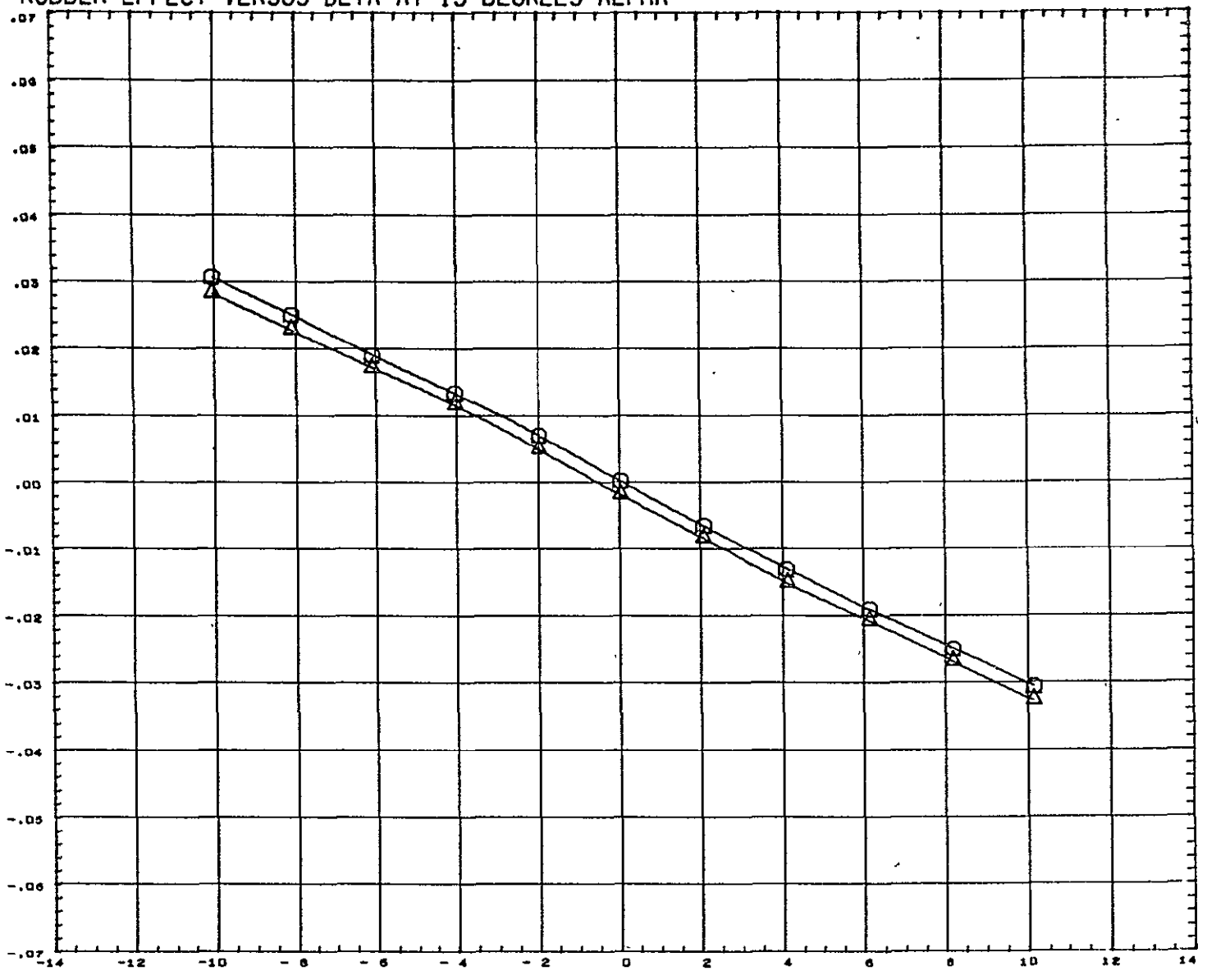
SIDE SLIP ANGLE, BETA, DEGREES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)	○	HSFC461 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

MACH 1.966

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

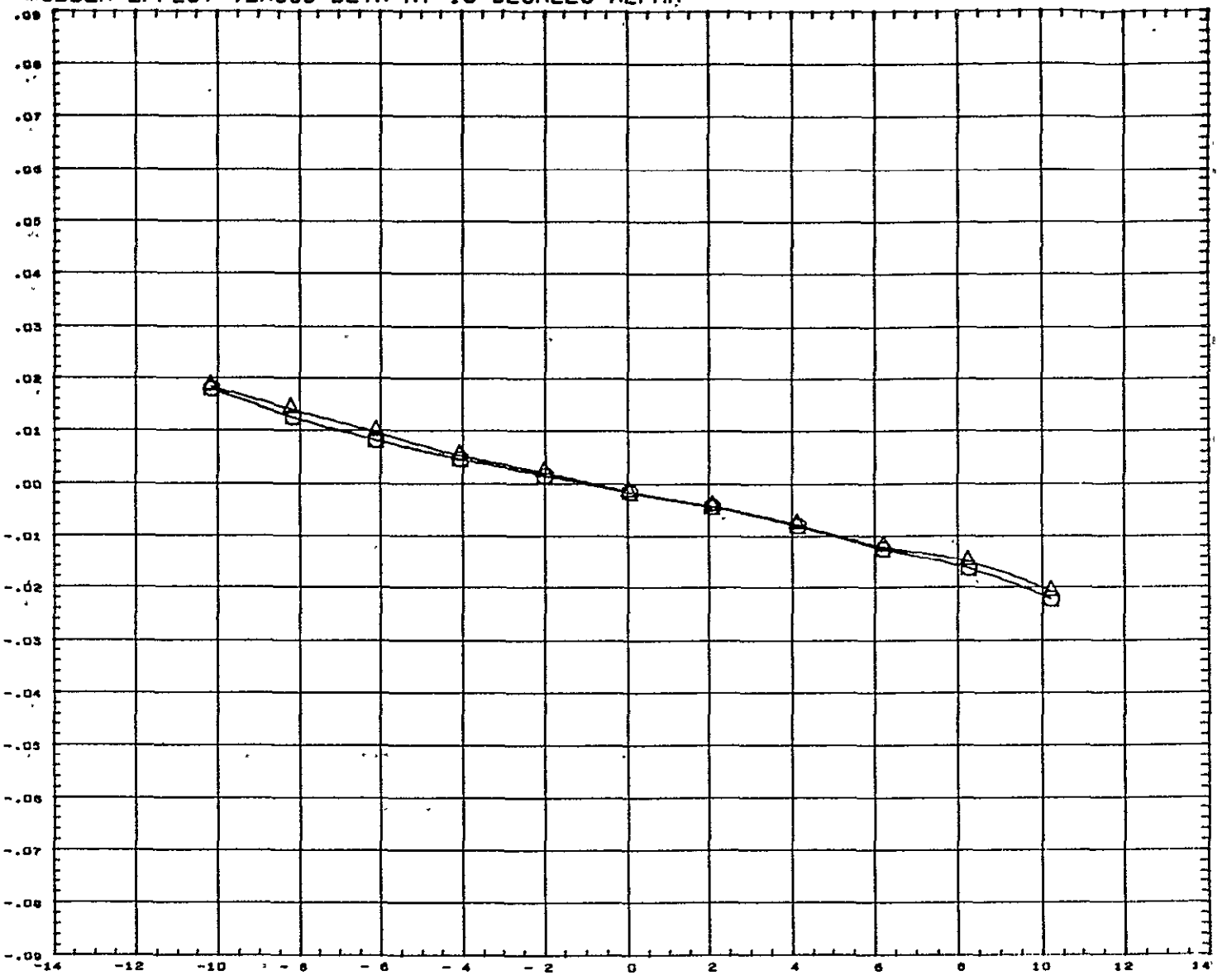


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

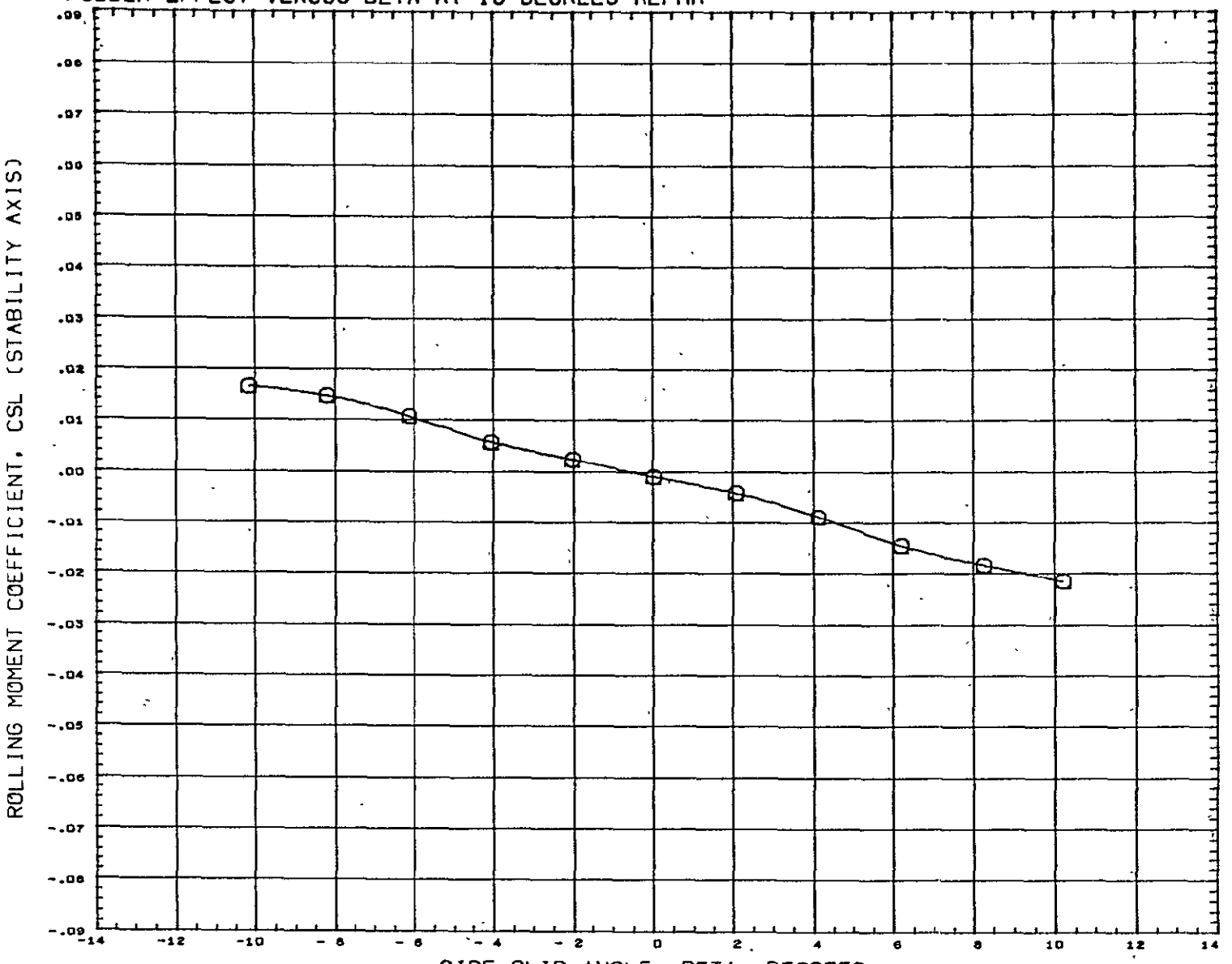


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

MACH 0.904

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

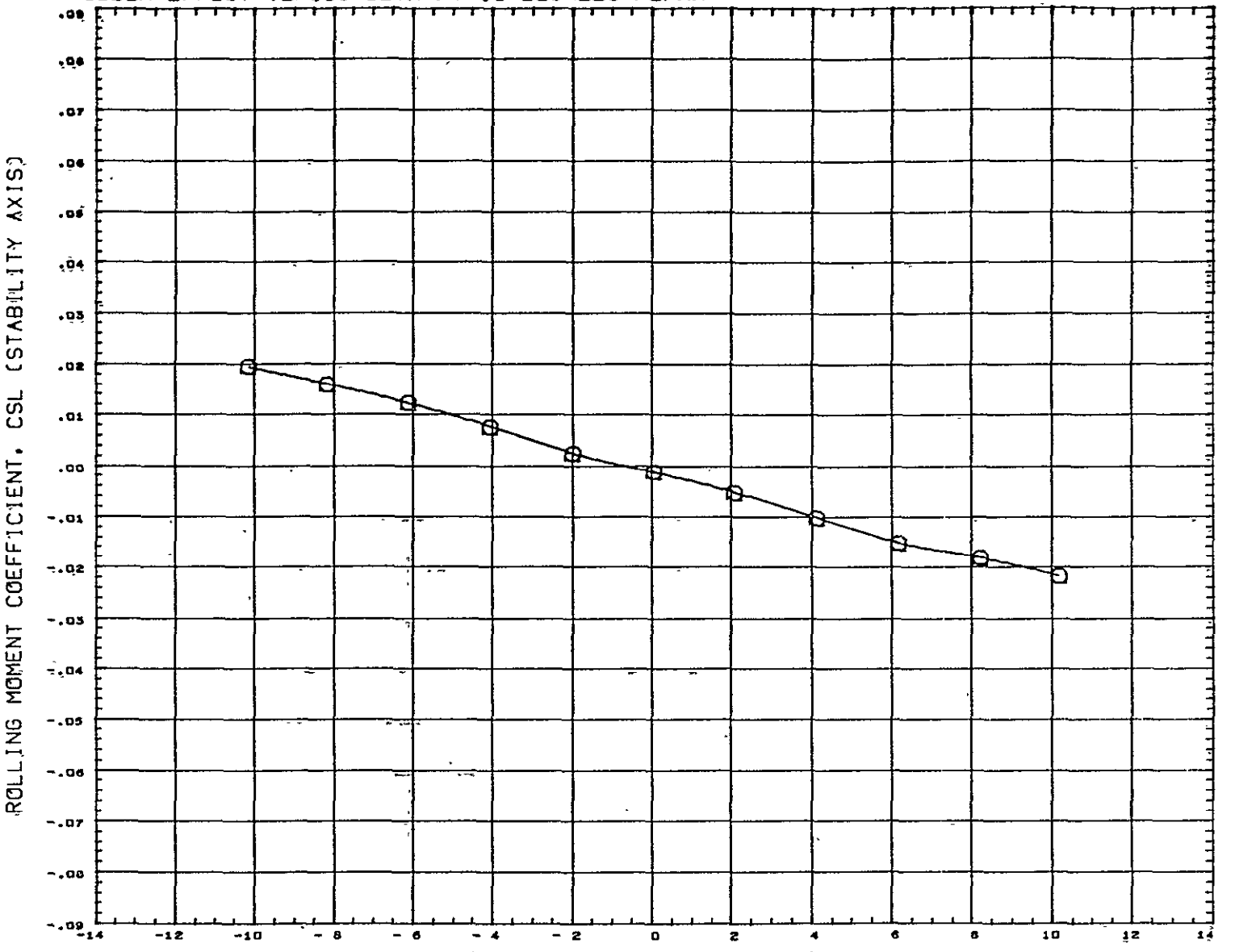


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 0.953

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

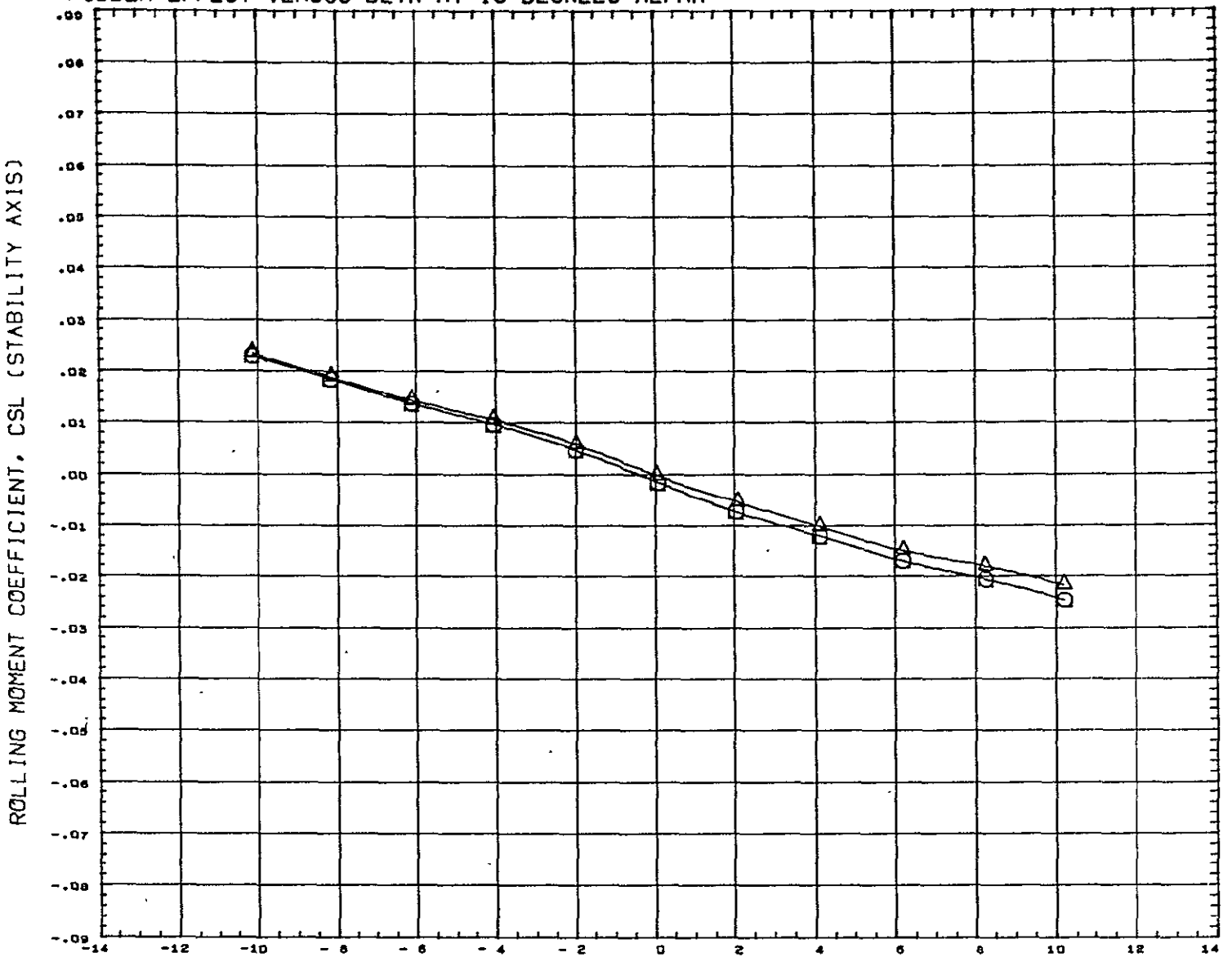


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

MACH 1.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

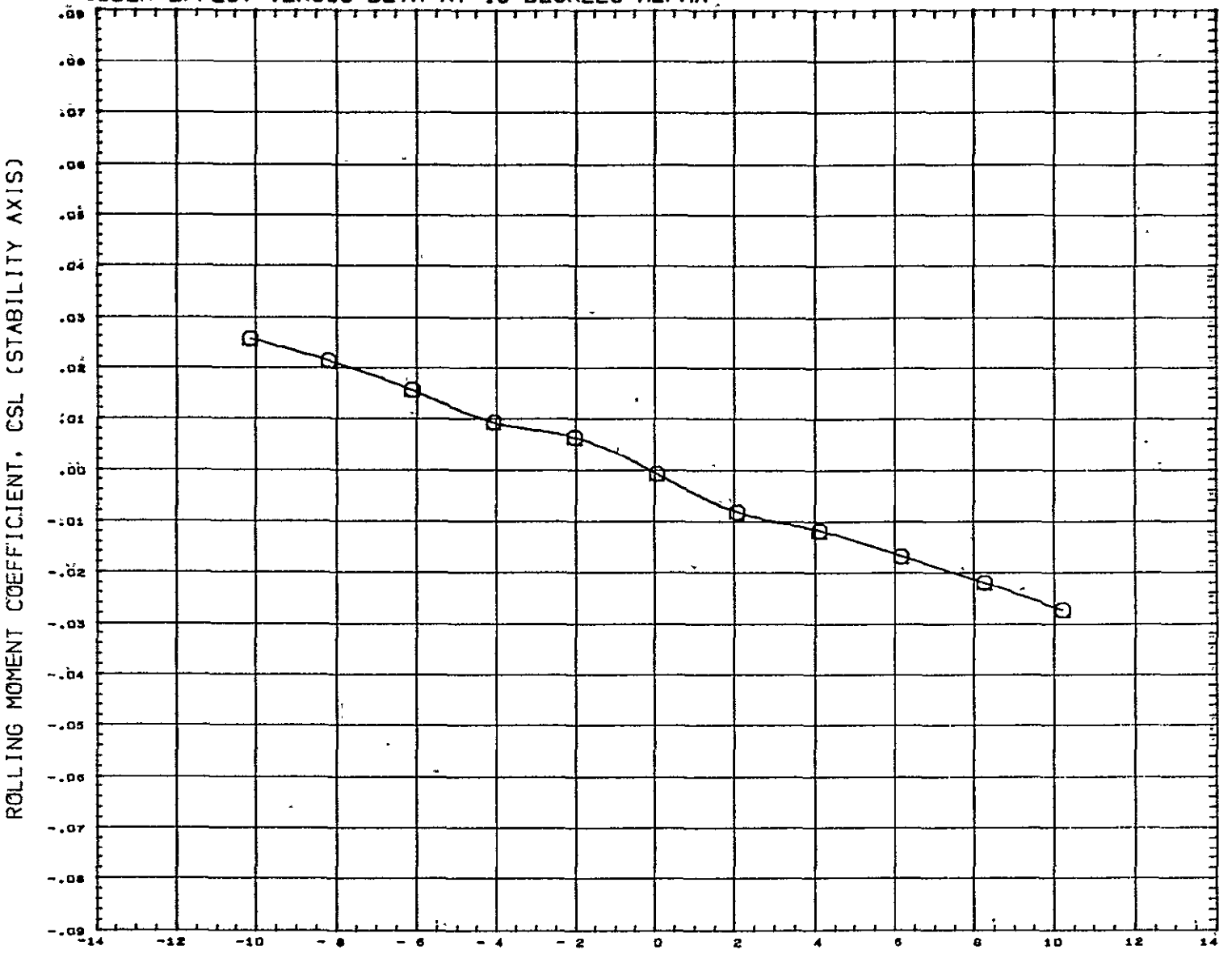


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

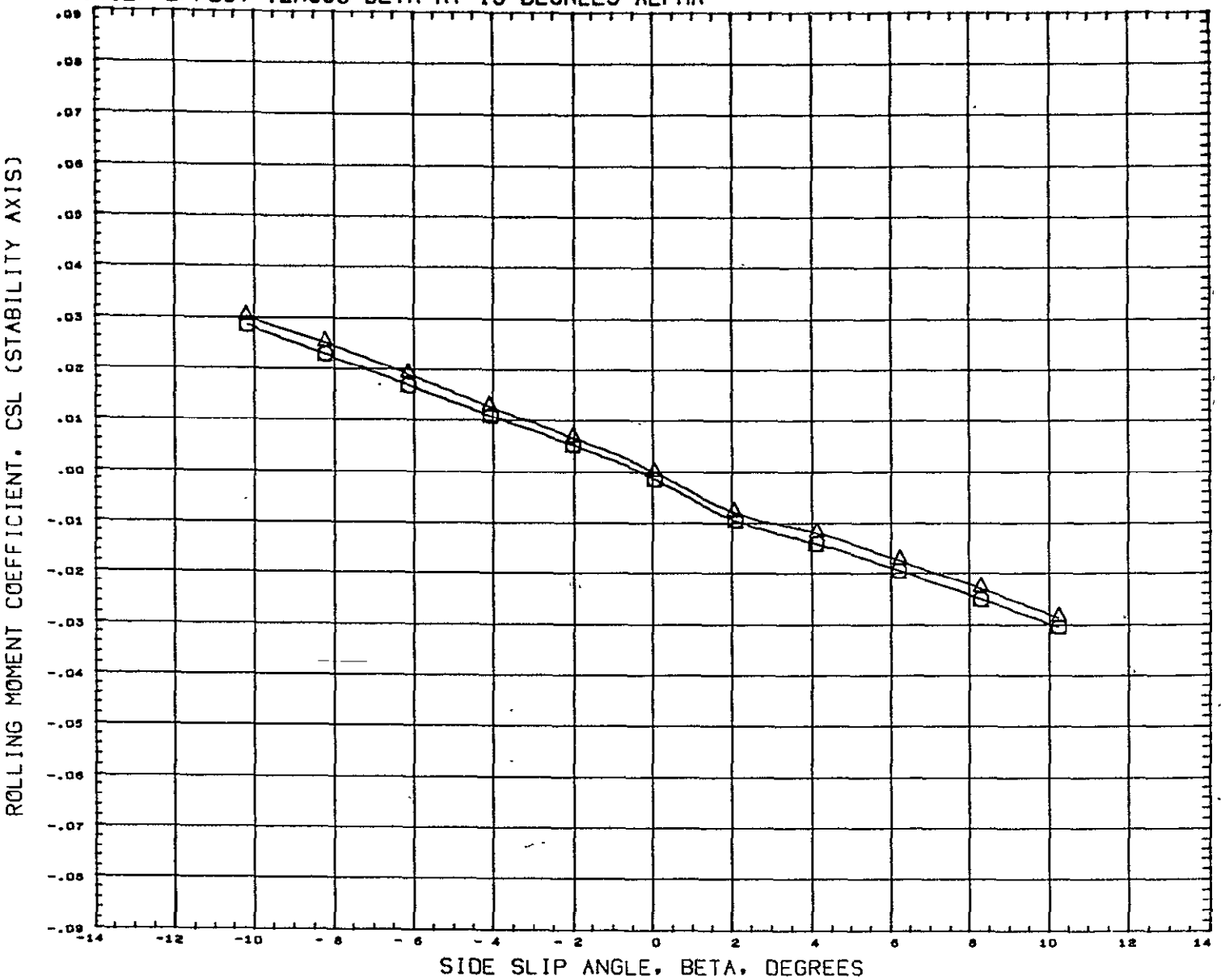


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

MACH 1.098

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA



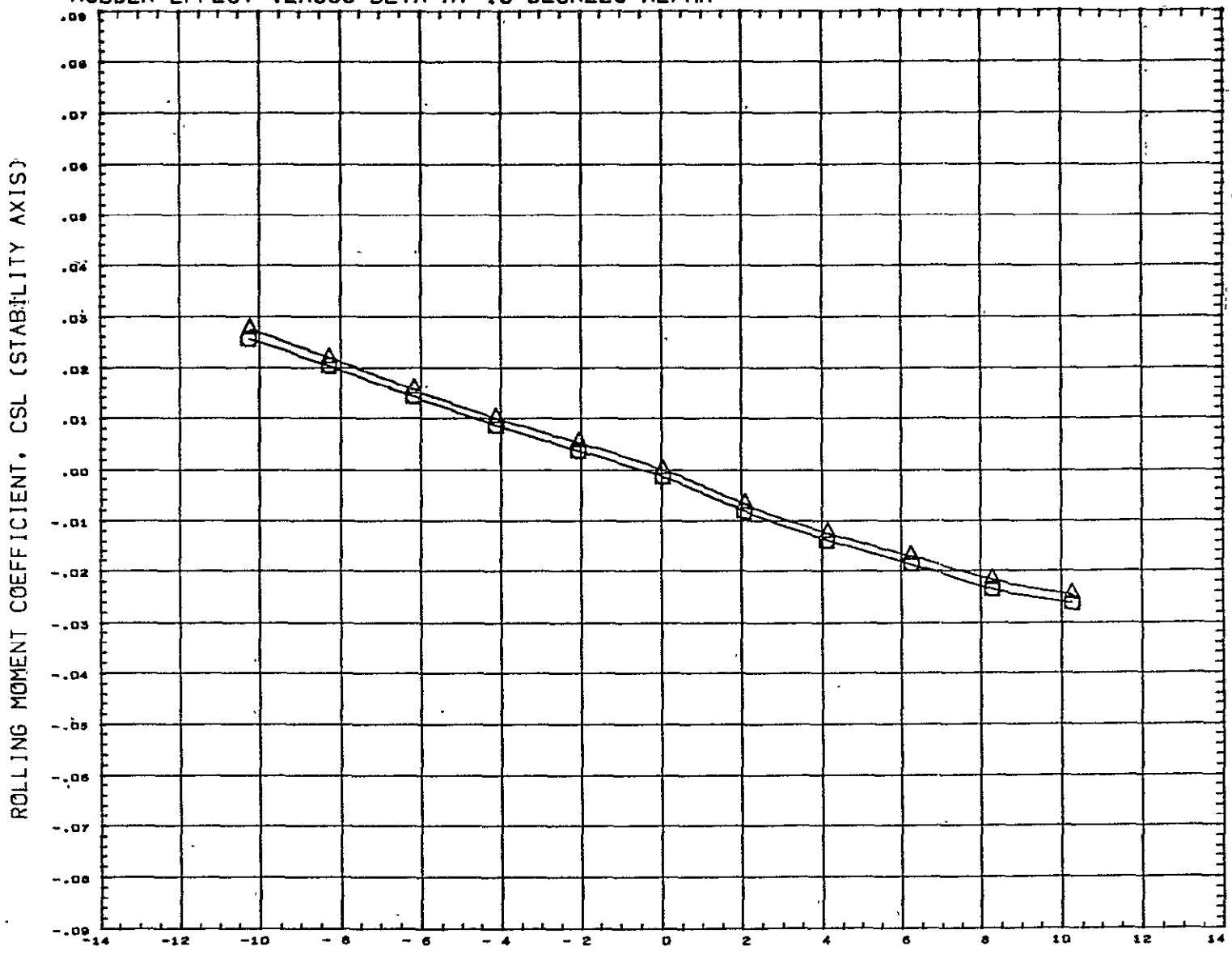
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(F26Y21)	○	HSFC481 GD/C(BOOSTER)B19W14C4AV7
(F28Y22)	△	HSFC481 GD/C(BOOSTER)B19W14C4AV7

ALPHA	CANARD	ELEVON	RUDDER
15.000	0.000	0.000	0.000
15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.202

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

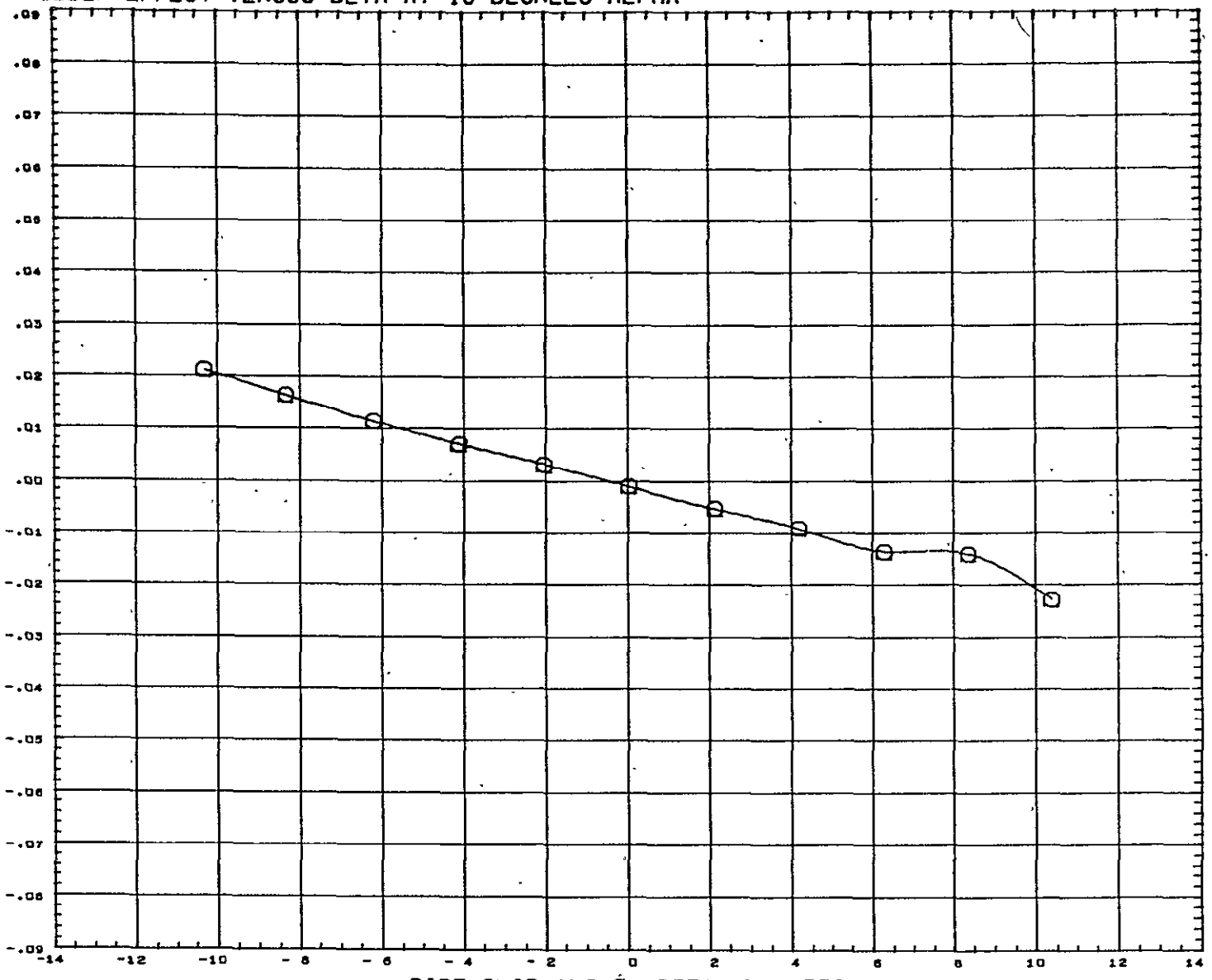


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.466

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

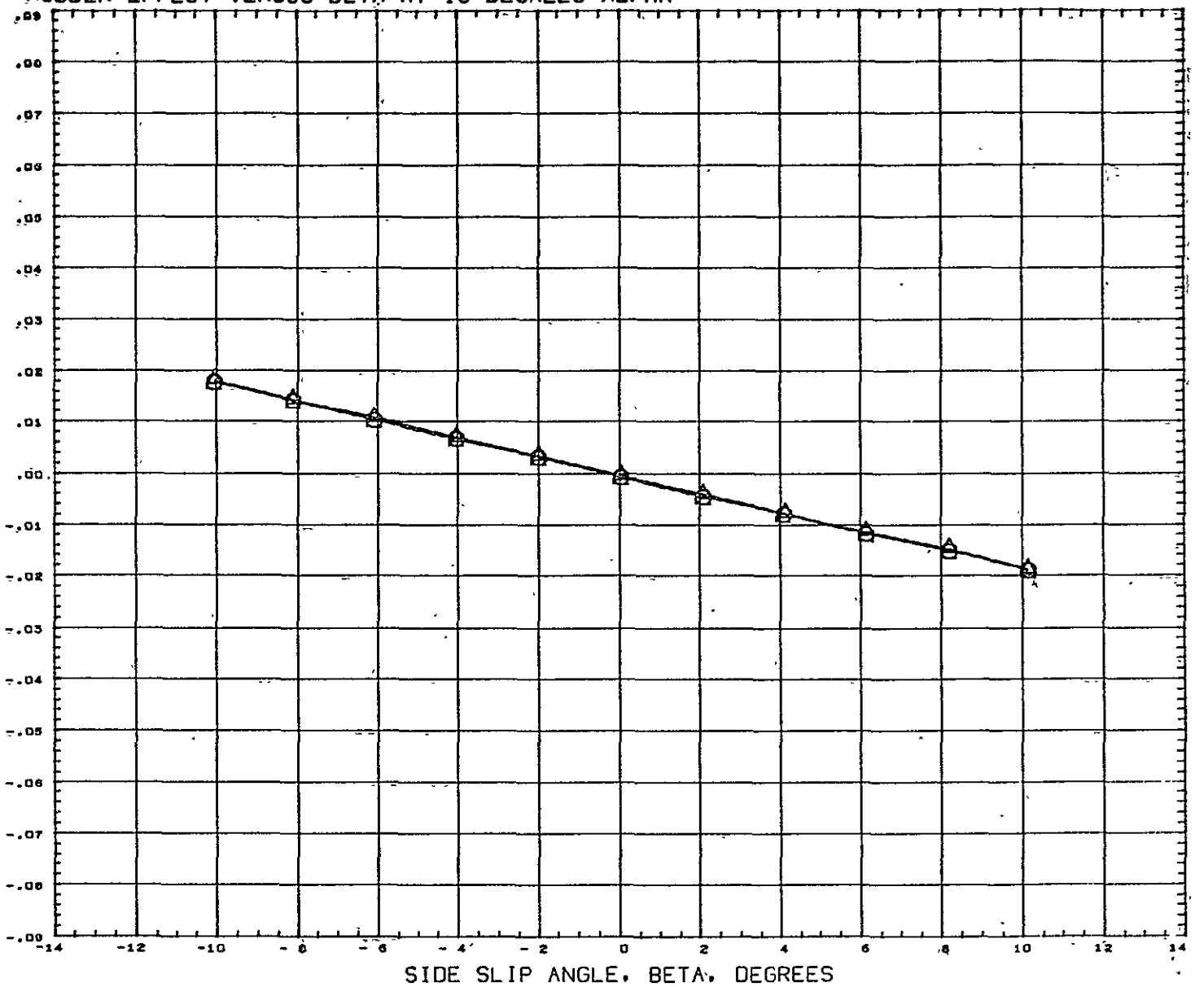


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)	○	HSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.966

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

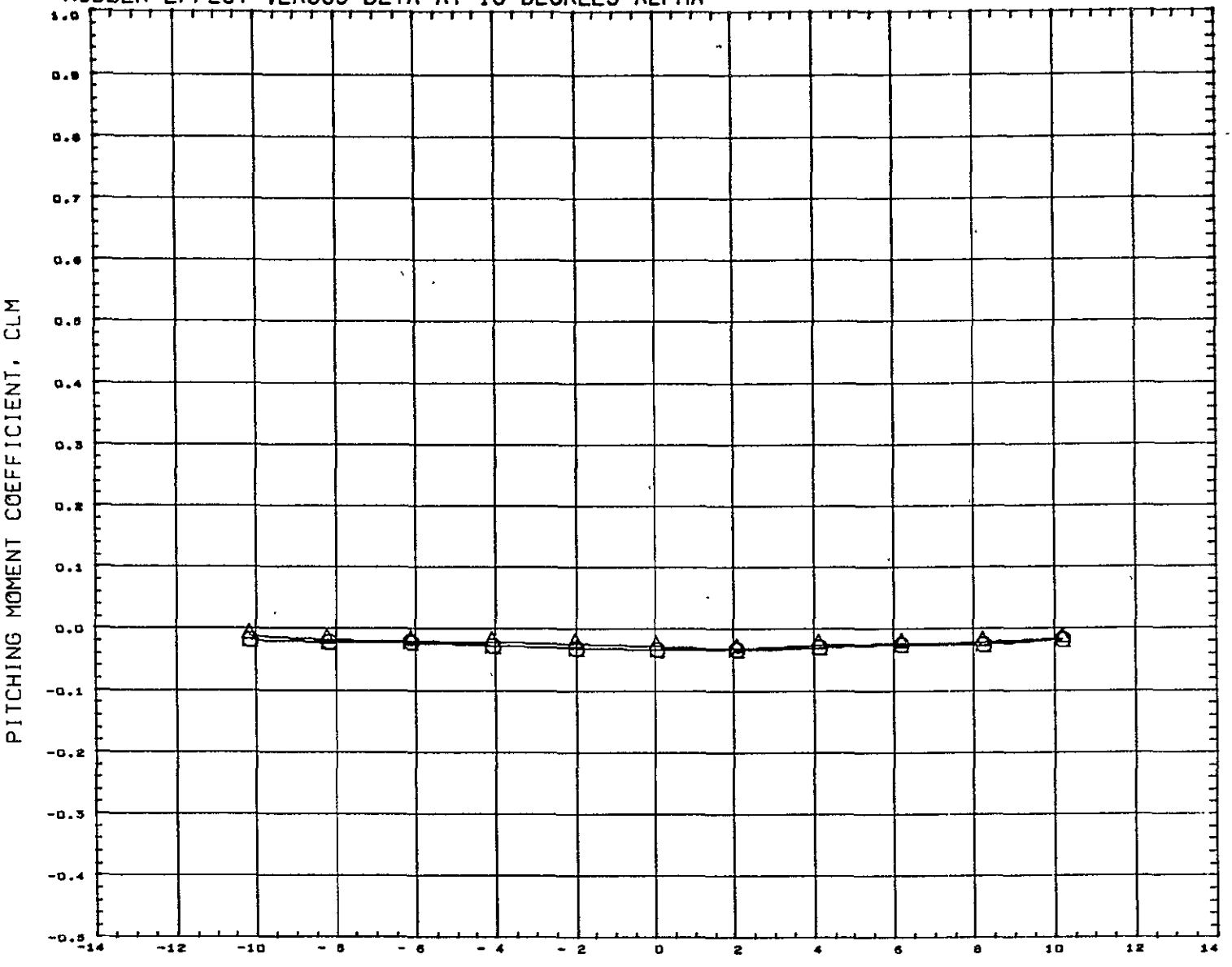


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

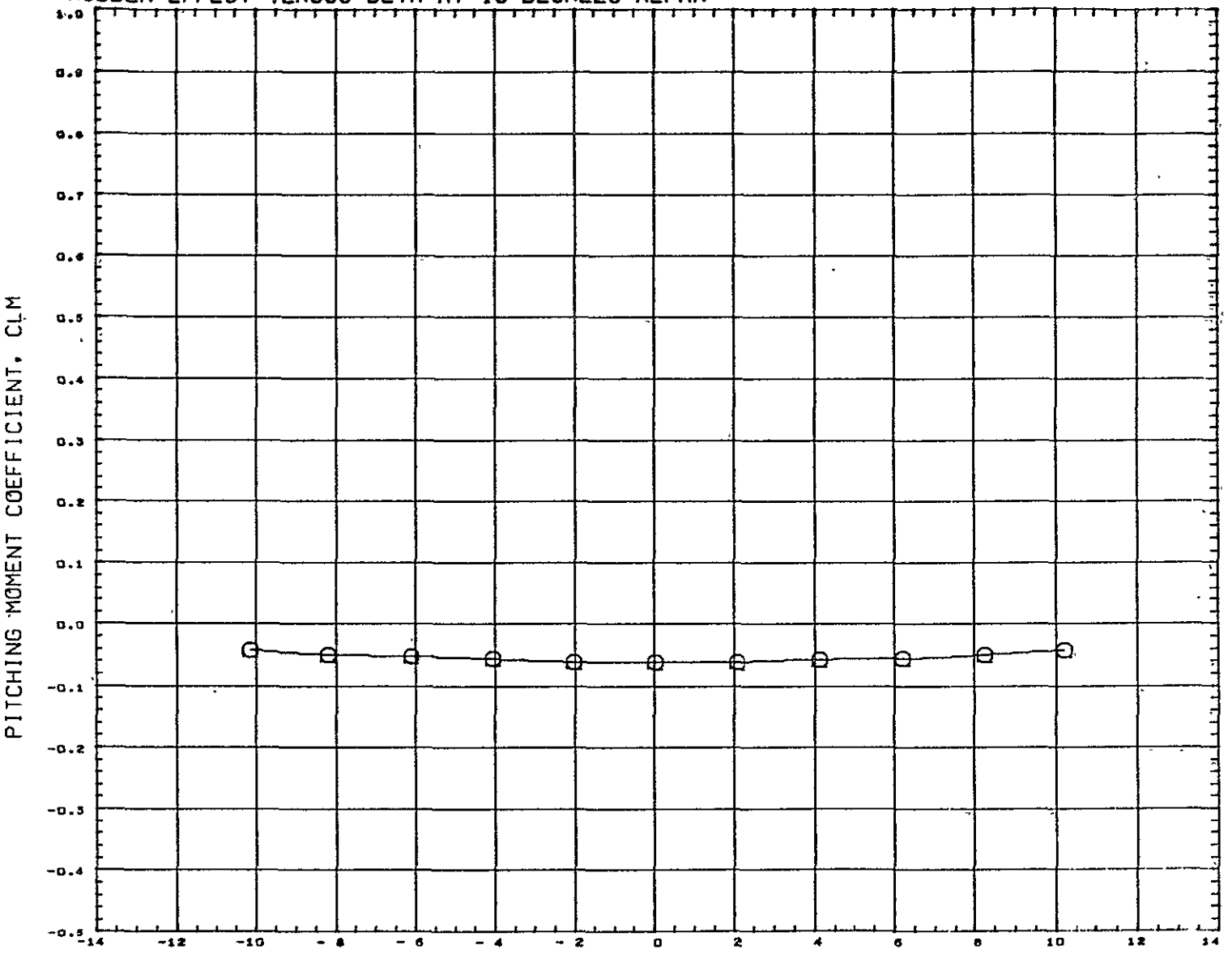


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

MACH 0.904

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

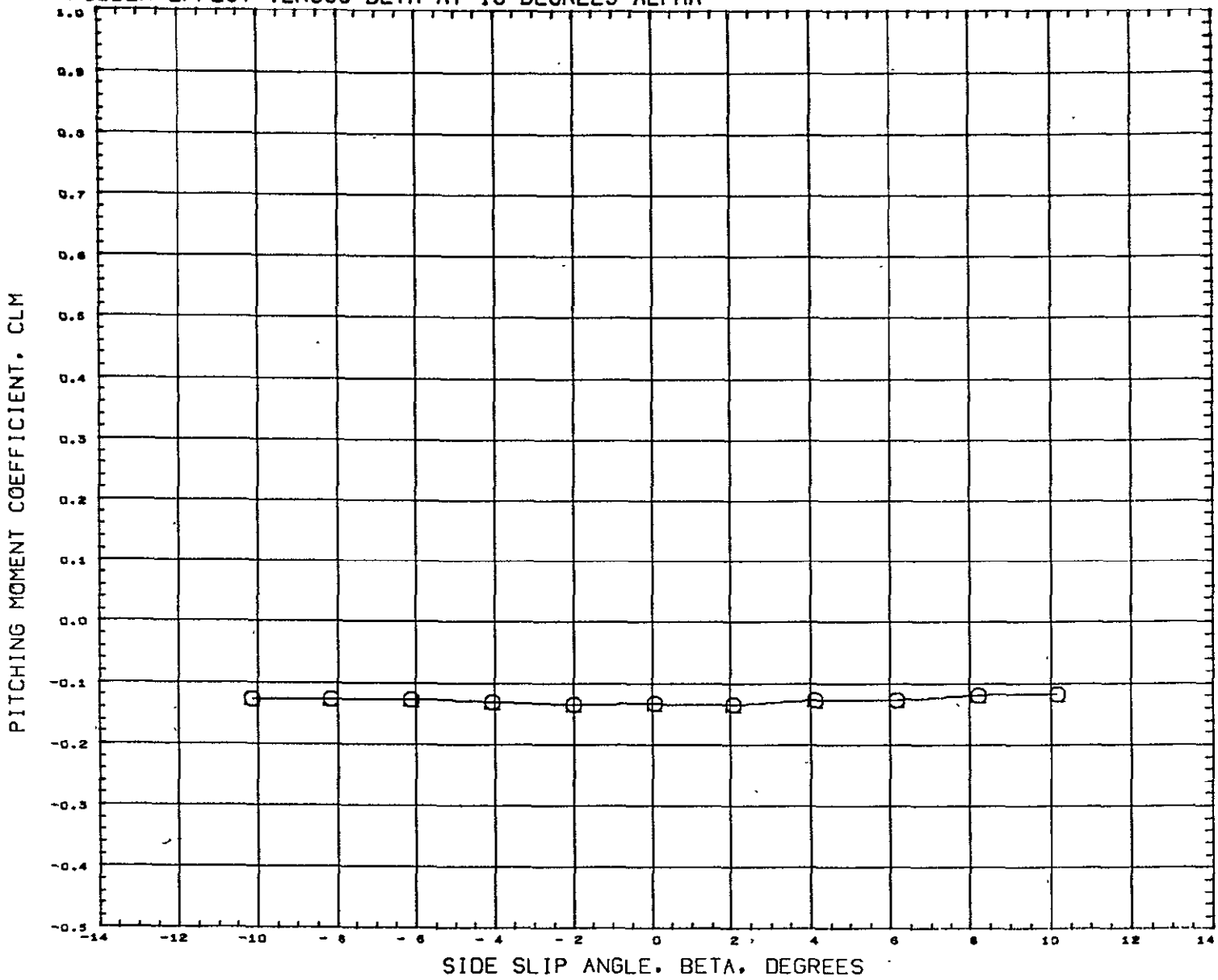


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

MACH 0.953

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

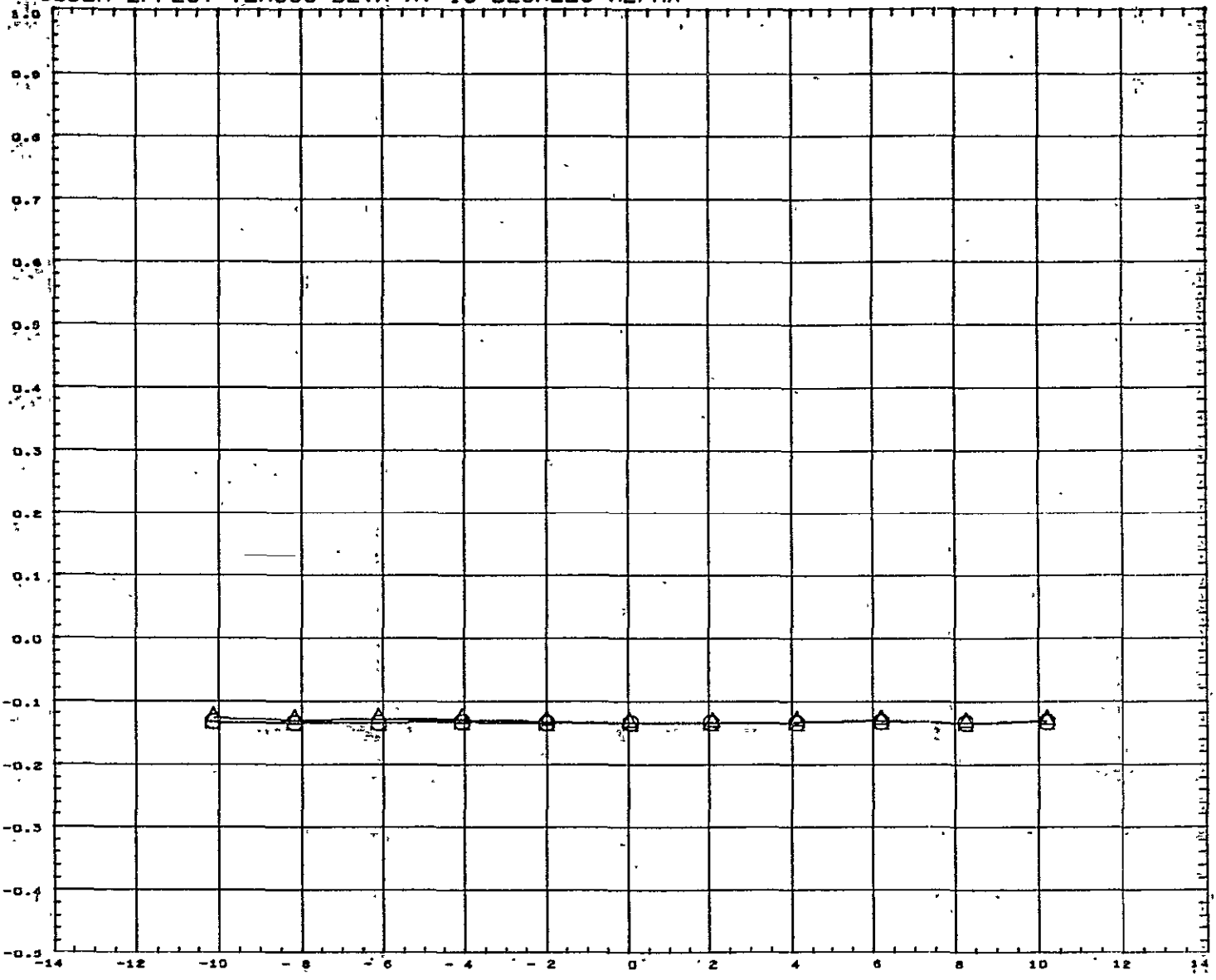


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)		M5FC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

MACH 1.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

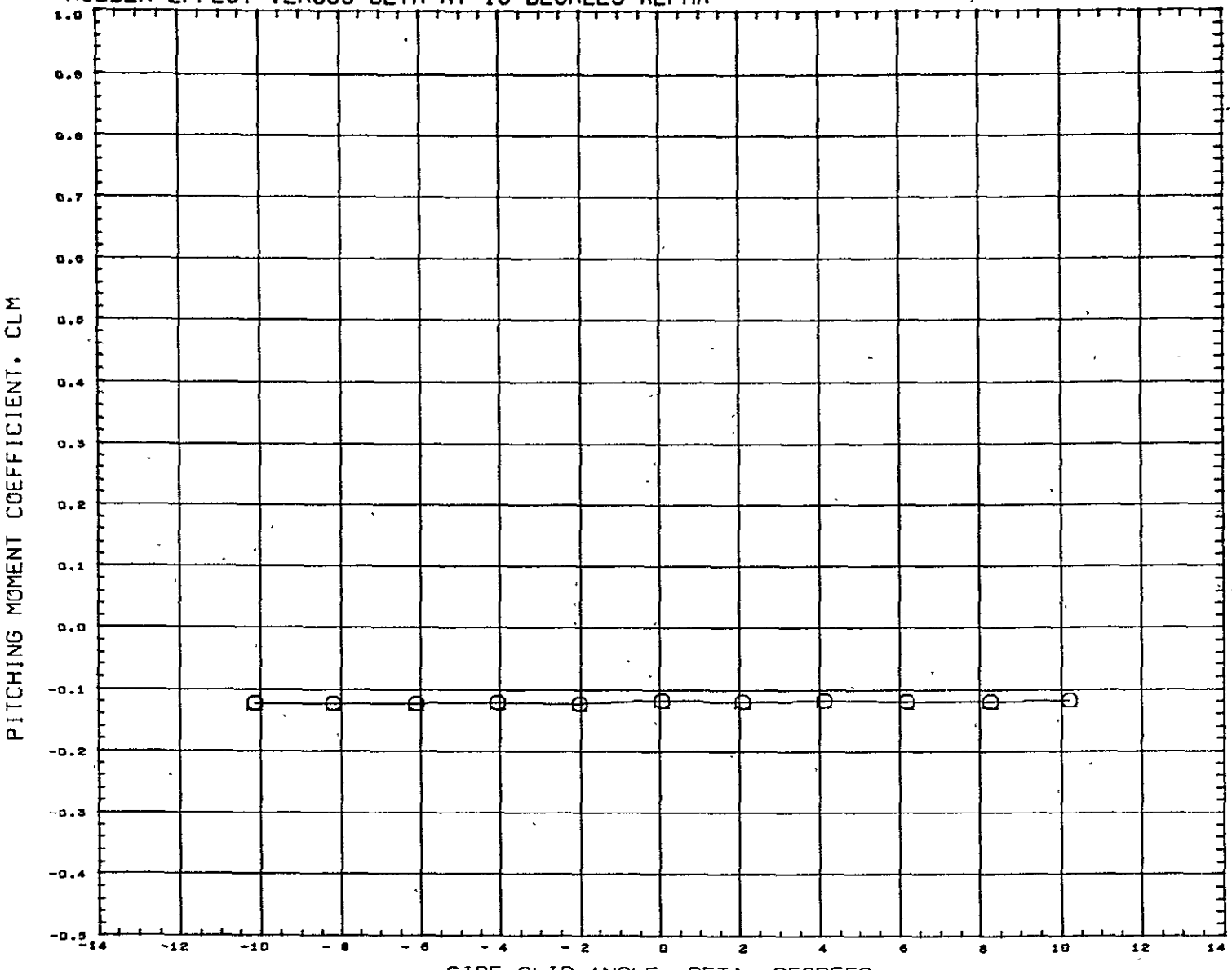


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)		HSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)		HSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.051

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

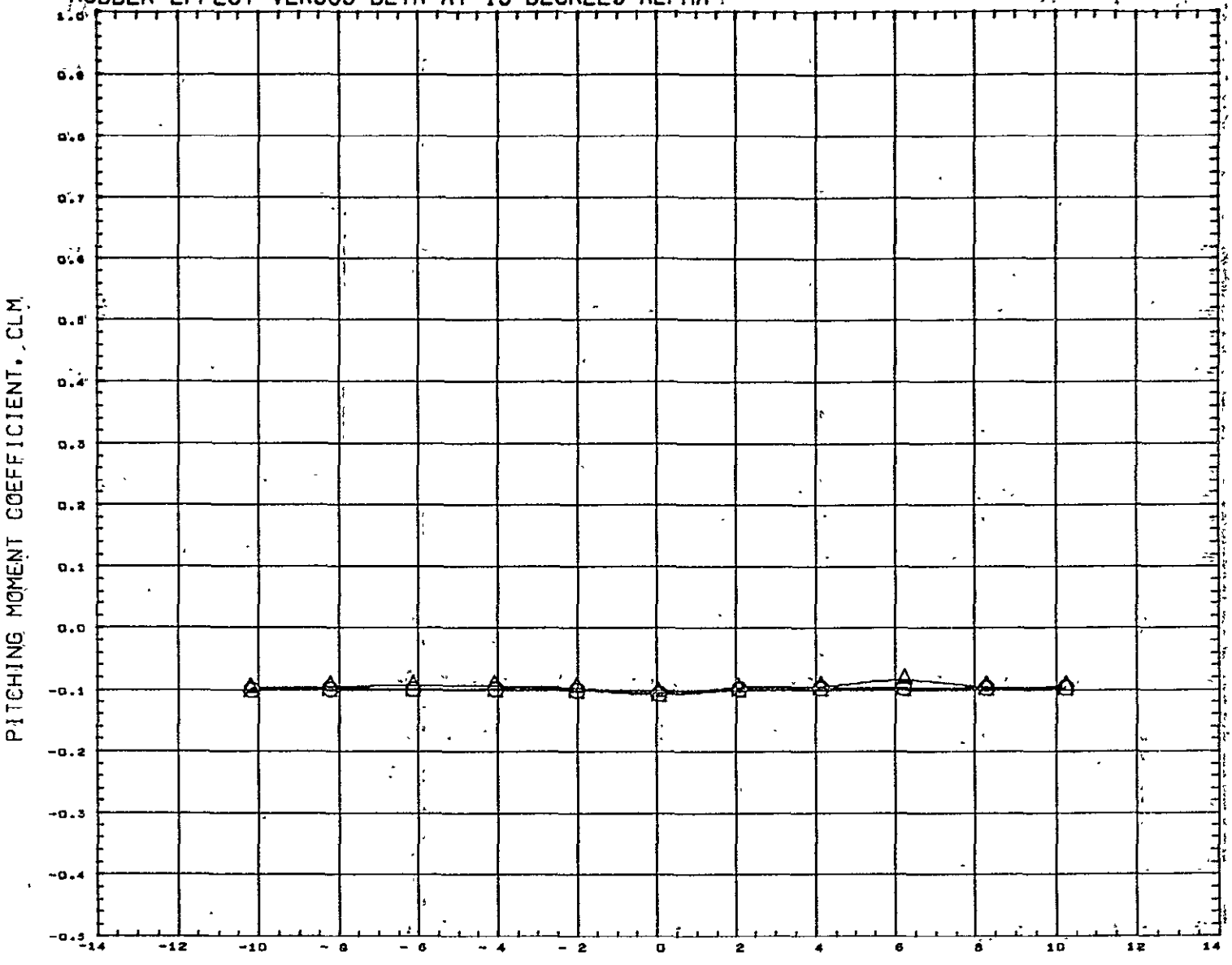


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.098

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

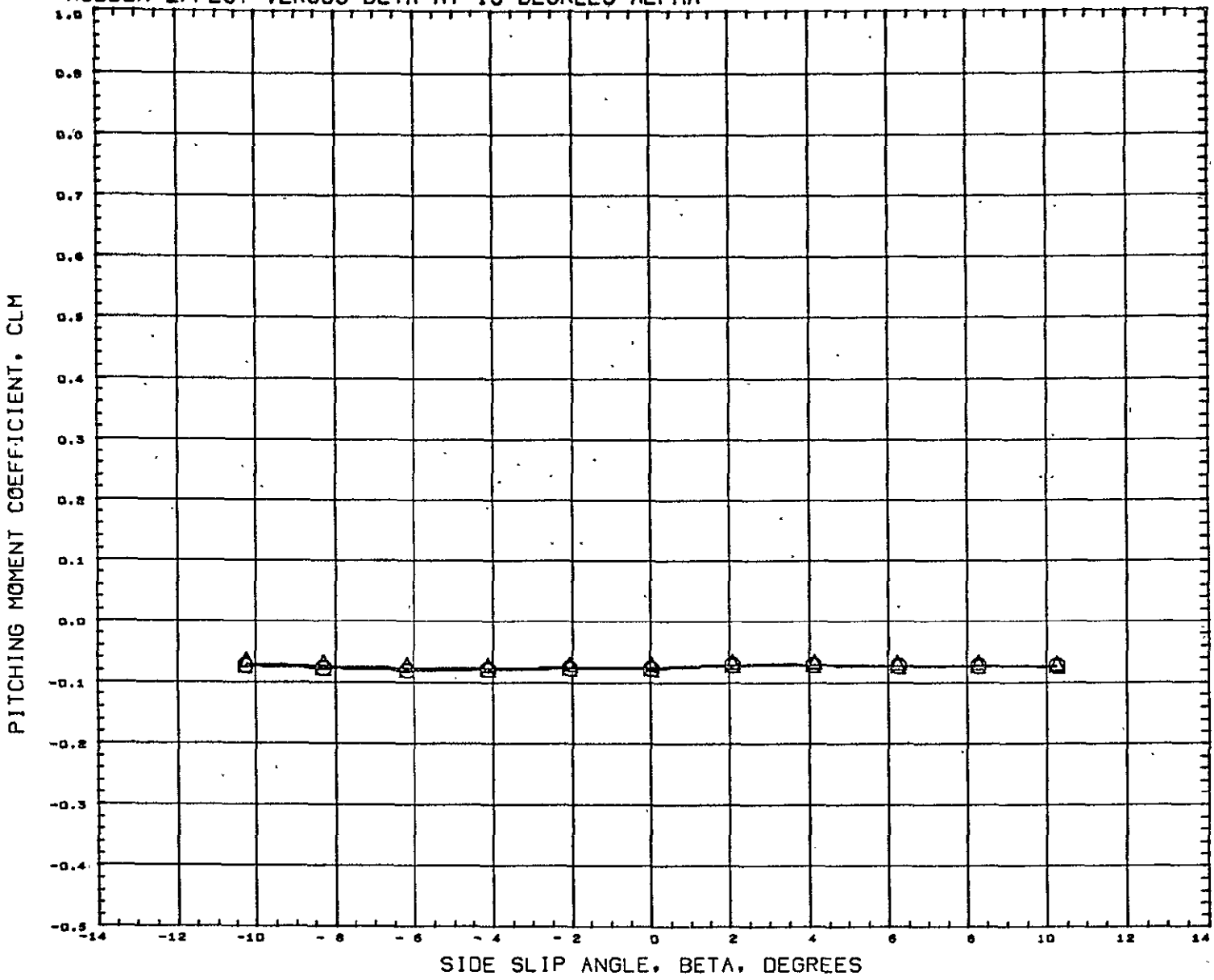


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F28Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F28Y22)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0930	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.202

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

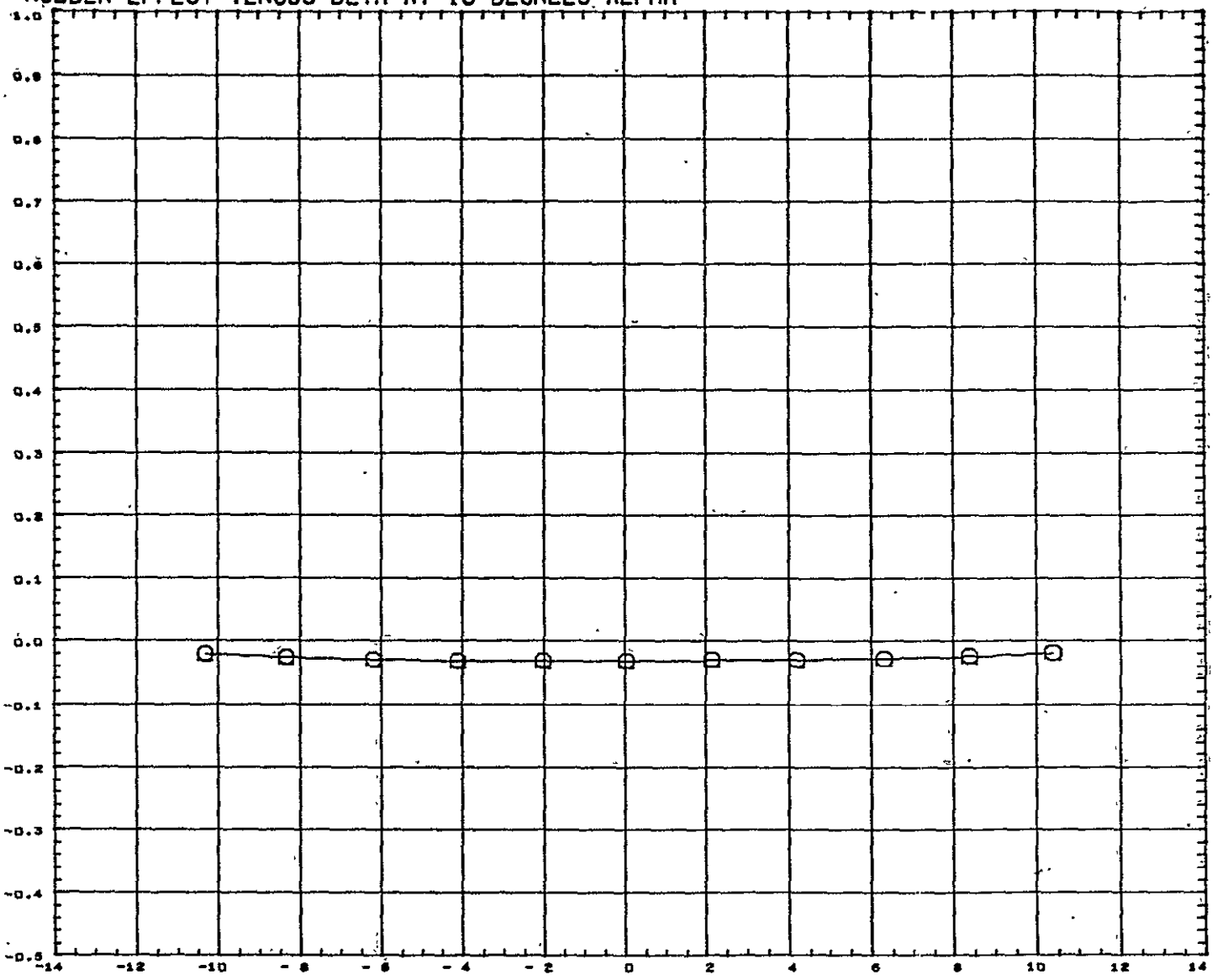


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)		MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)		MSFC481 GD/C(BOOSTER)B19W14C4AV7.	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 1.468

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

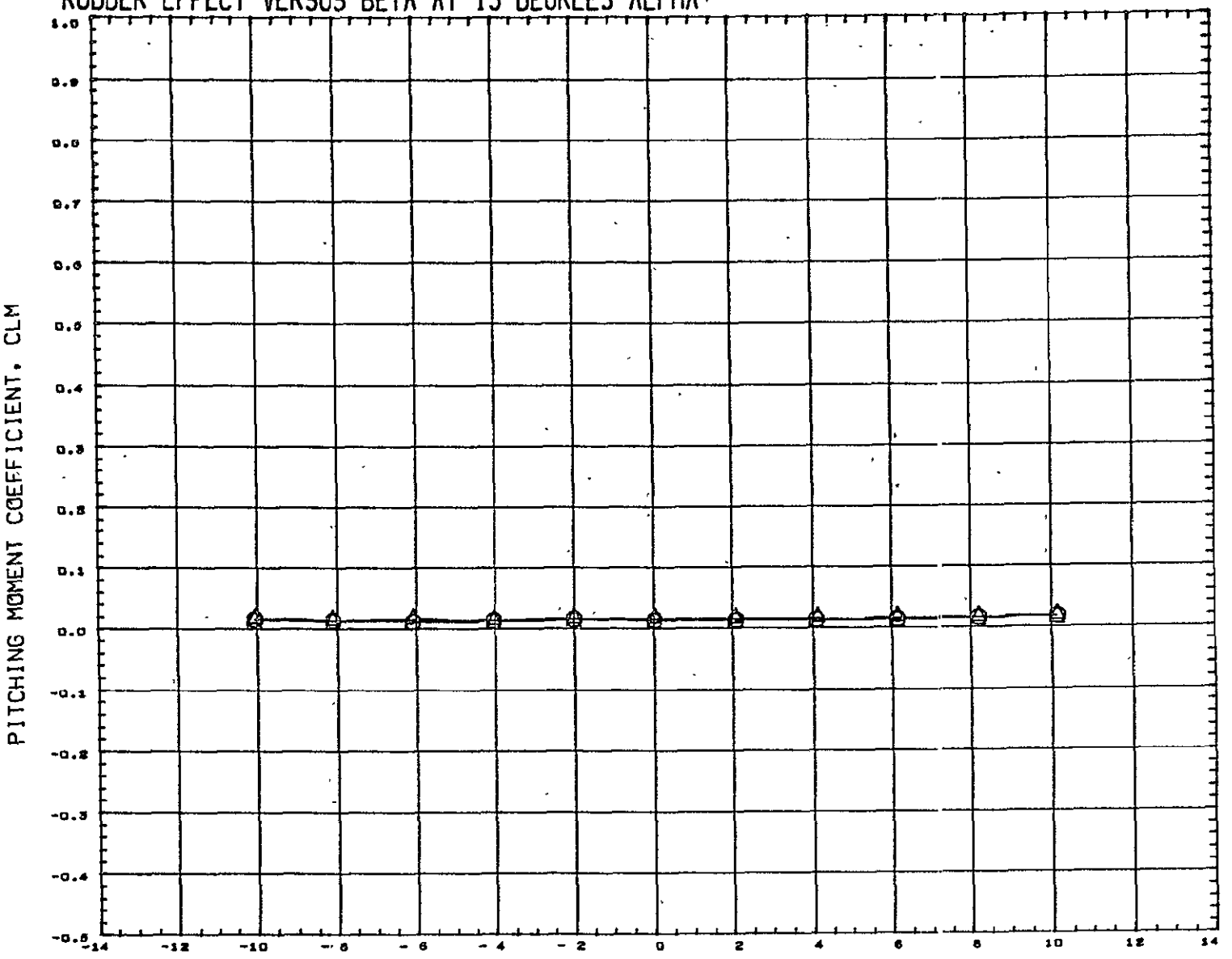


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(F26Y21)	○	HSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(F26Y22)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	10.000

MACH 1.966

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

RUDDER EFFECT VERSUS BETA AT 15 DEGREES ALPHA

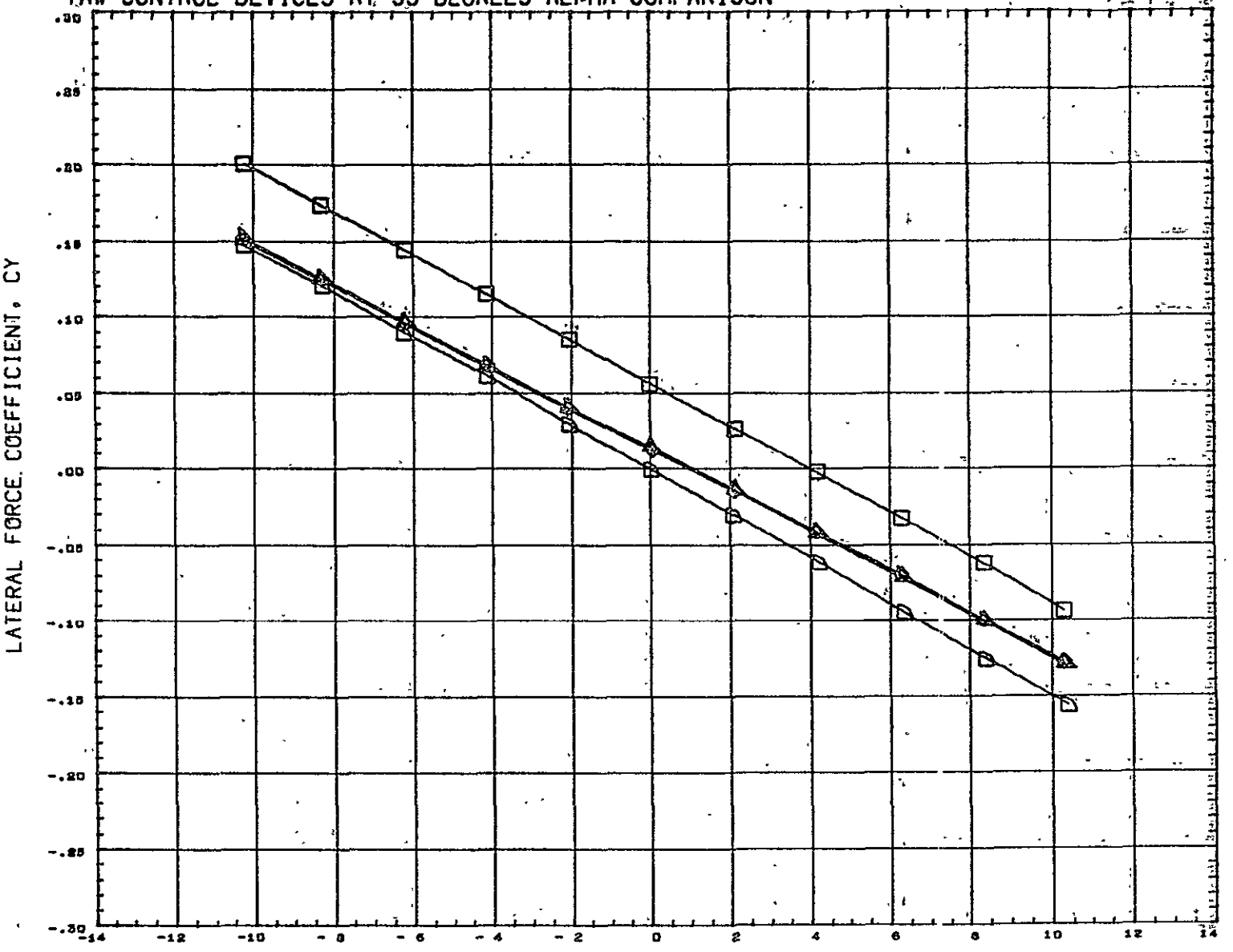


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	RUDDER
(FZ8Y21)	○	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	0.000
(FZ8Y22)	△	MSFC481 GD/C(BOOSTER)B19W14C4AV7	15.000	0.000	0.000	10.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	5.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

MACH 2.990

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

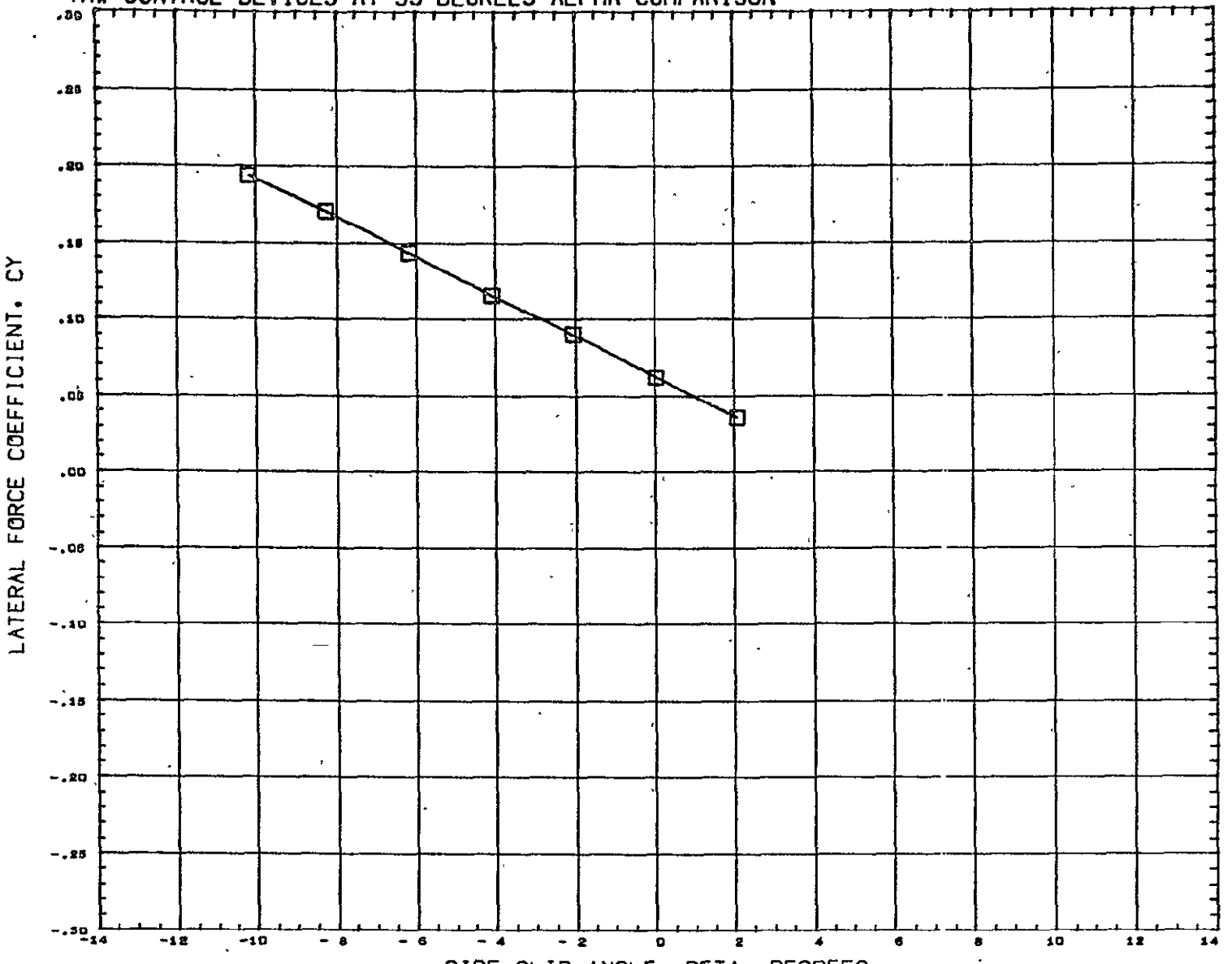


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y62)		M5FC481 GD/C(BOOSTER) B19W14C4AF4	-45.000	-45.000	-45.000	35.000
(F28Y63)		M5FC481 GD/C(BOOSTER) B19W14C4AF5	-45.000	-45.000	-45.000	35.000
(F28Y64)		M5FC481 GD/C(BOOSTER),B19W14C4AF6	-45.000	-45.000	-45.000	35.000
(F28Y65)		M5FC481 GD/C(BOOSTER)B19W14C4S	-45.000	-45.000	-45.000	35.000
(F28Y44)		M5FC481 GD/C(BOOSTER)B19W14C4A	-30.000	0.000	-15.000	35.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON



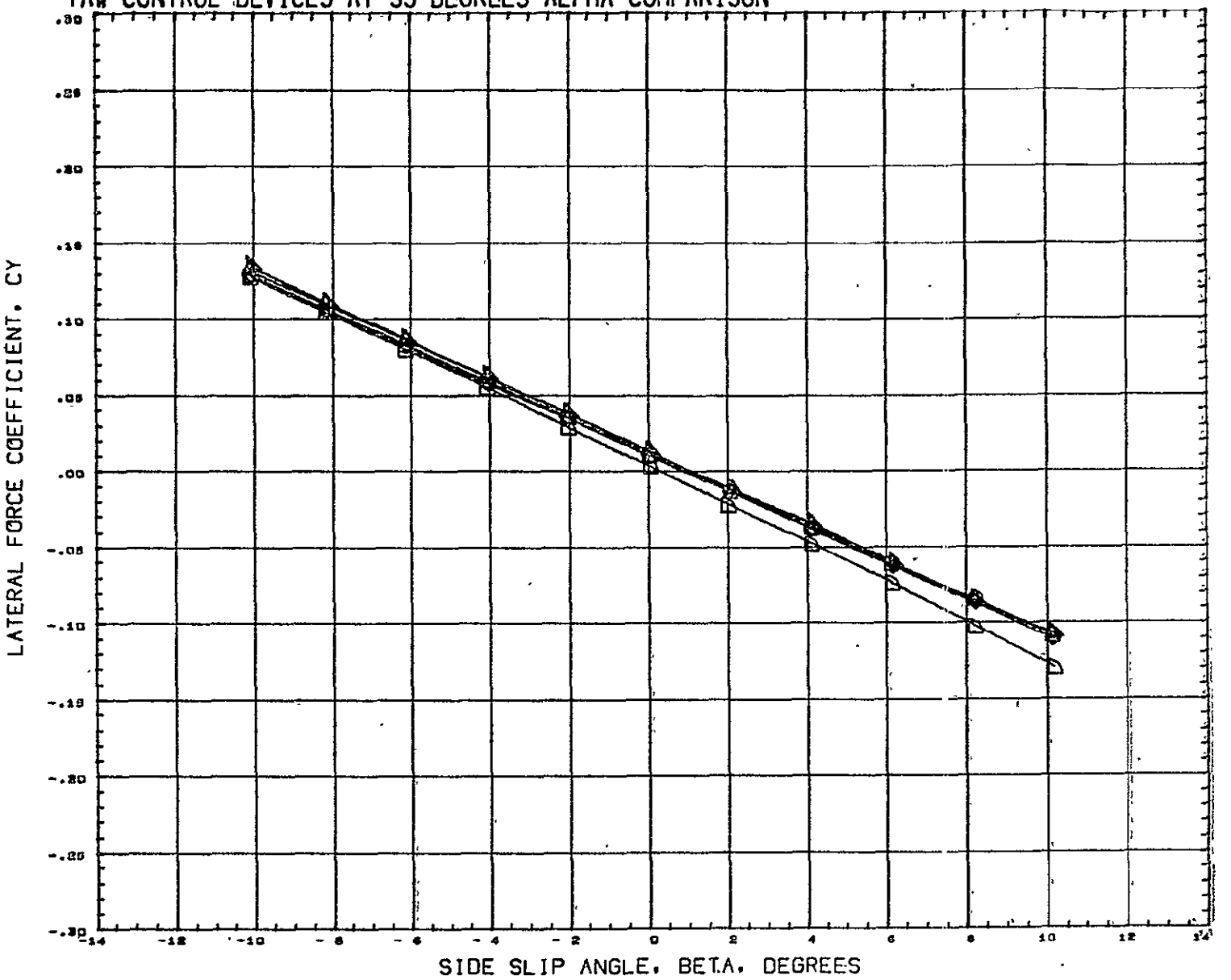
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F28Y61)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y62)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y63)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y64)		MSFC481 GD/C(BOOSTER) B19W14C4AF6
(F28Y65)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y44)		DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 4.450

DCL	DCR	CANARD	ALPHA
-45.000	-45.000	-45.000	35.000
-45.000	-45.000	-45.000	35.000
-45.000	-45.000	-45.000	35.000
-45.000	-45.000	-45.000	35.000
-45.000	-45.000	-45.000	35.000
-30.000	0.000	-15.000	35.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

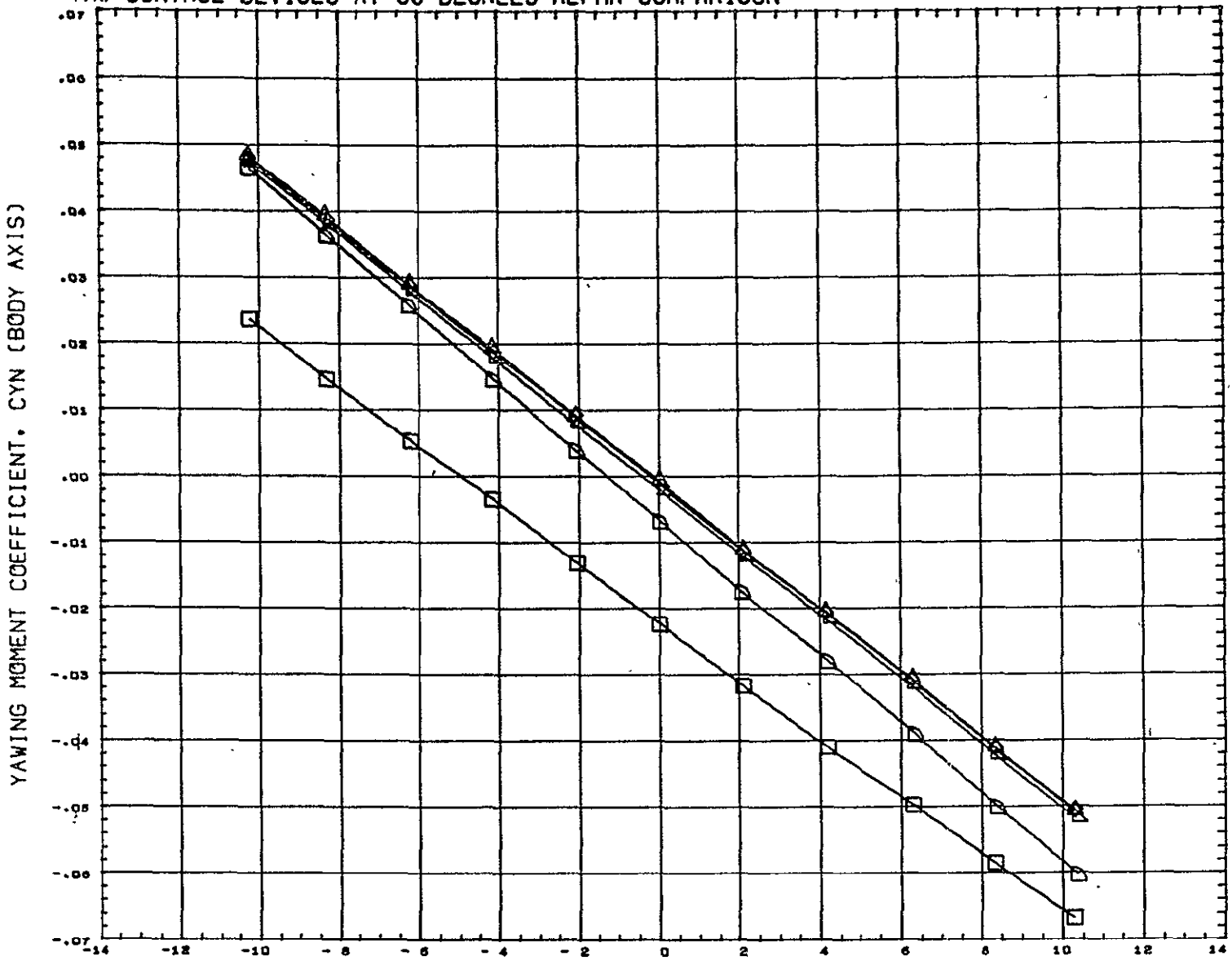


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)		MSFC481 GD/C(BOOSTER)B19W14C4A	-45.000	-45.000	-45.000	35.000
(F28Y62)		MSFC481 GD/C(BOOSTER) B19W14C4AF4	-45.000	-45.000	-45.000	35.000
(F28Y63)		MSFC481 GD/C(BOOSTER) B19W14C4AF5	-45.000	-45.000	-45.000	35.000
(F28Y64)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y65)		MSFC481 GD/C(BOOSTER)B19W14C4S	-45.000	-45.000	-45.000	35.000
(F28Y44)		MSFC481 GD/C(BOOSTER)B19W14C4A	-30.000	-0.000	-15.000	35.000

MACH 4.959

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

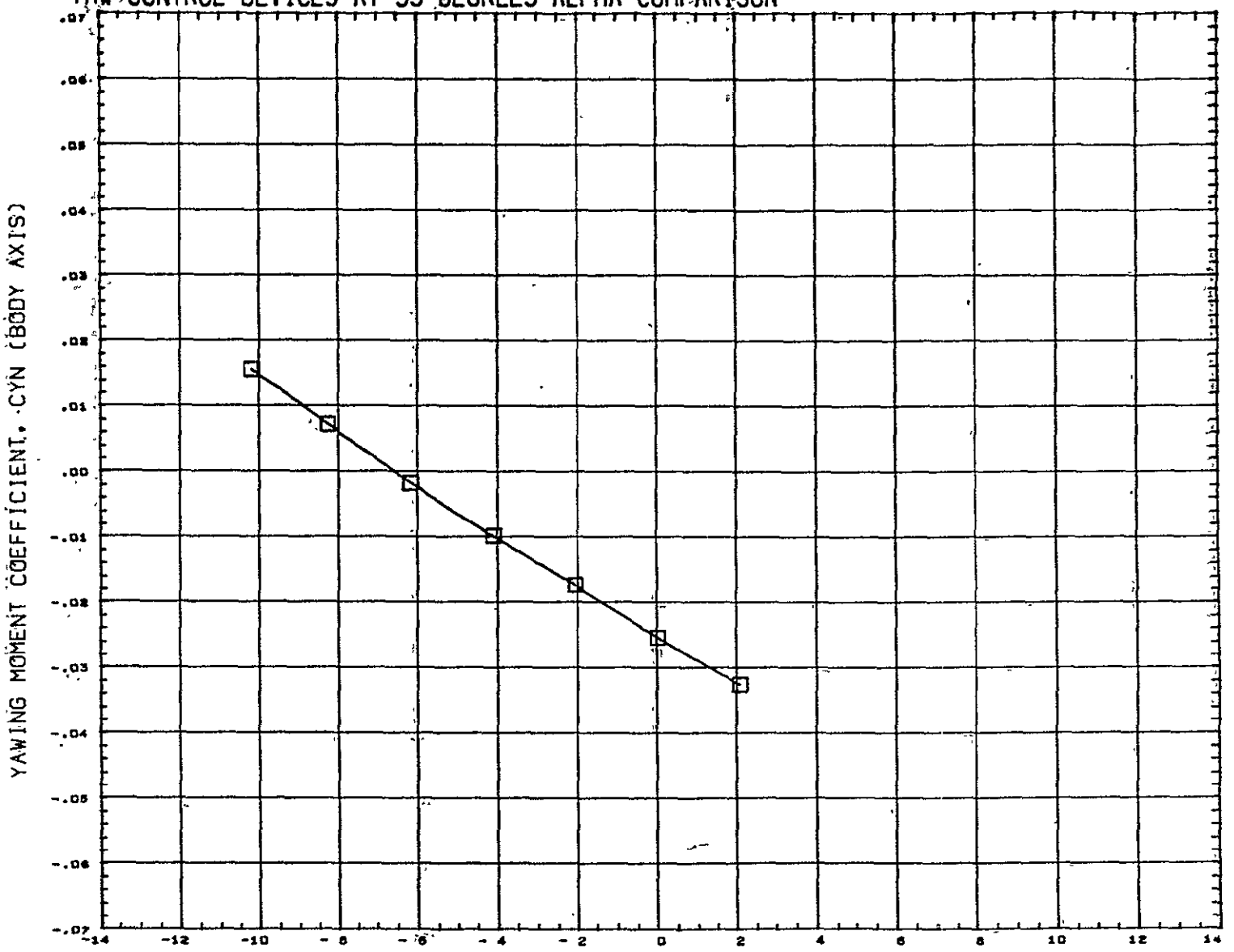


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y62)		MSFC481 GD/C(BOOSTER) B19W14C4AF4	-45.000	-45.000	-45.000	35.000
(F28Y63)		MSFC481 GD/C(BOOSTER) B19W14C4AF5	-45.000	-45.000	-45.000	35.000
(F28Y64)		MSFC481 GD/C(BOOSTER) B19W14C4AF6	-45.000	-45.000	-45.000	35.000
(F28Y65)		MSFC481 GD/C(BOOSTER)B19W14C4S	-45.000	-45.000	-45.000	35.000
(F28Y44)		MSFC481 GD/C(BOOSTER)B19W14C4A	-30.000	0.000	-15.000	35.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

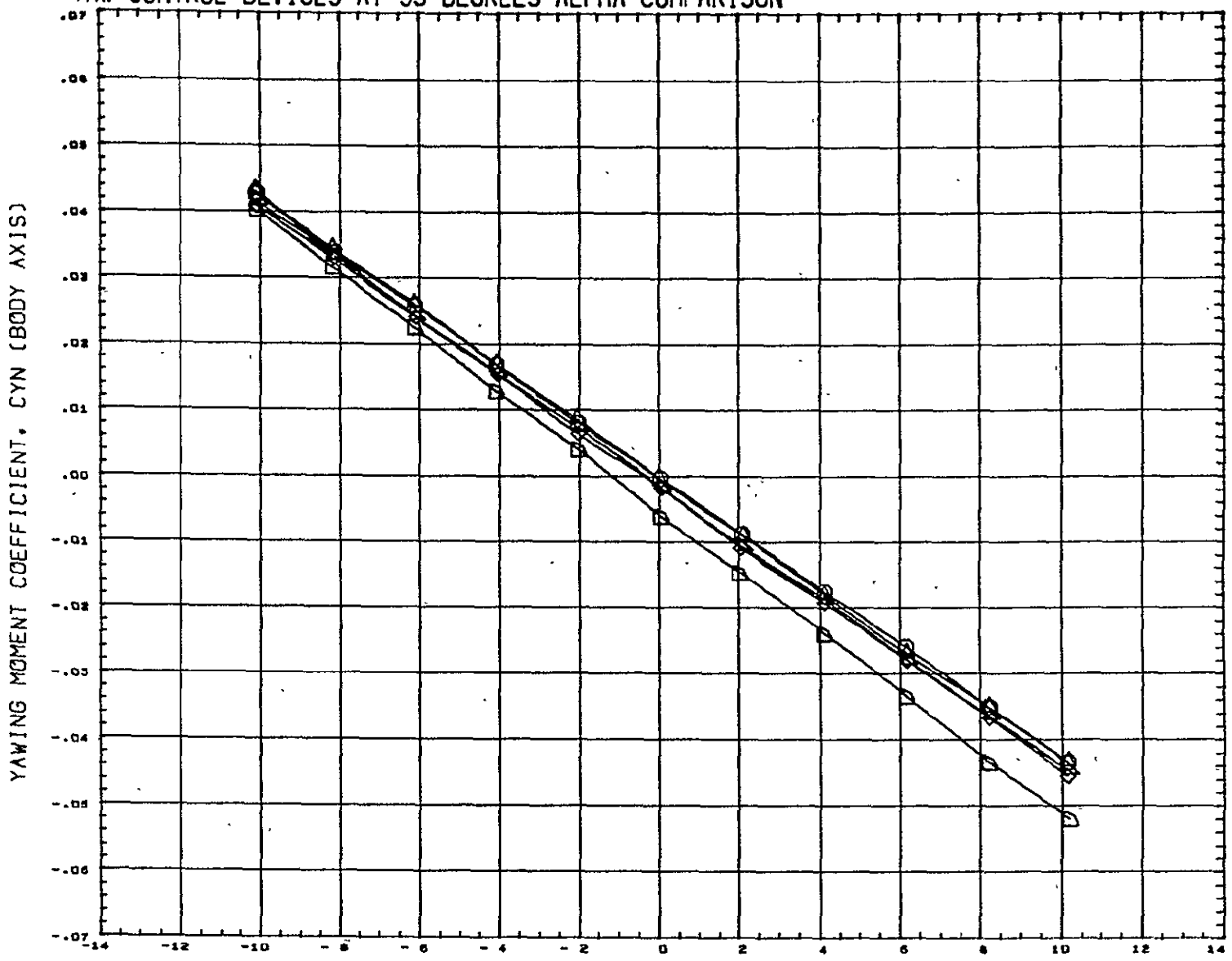


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y62)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y63)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y64)		MSFC481 GD/C(BOOSTER) B19W14C4AF6	-45.000	-45.000	-45.000	35.000
(F28Y65)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y44)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000	-15.000	35.000

MACH 4.450

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0930	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

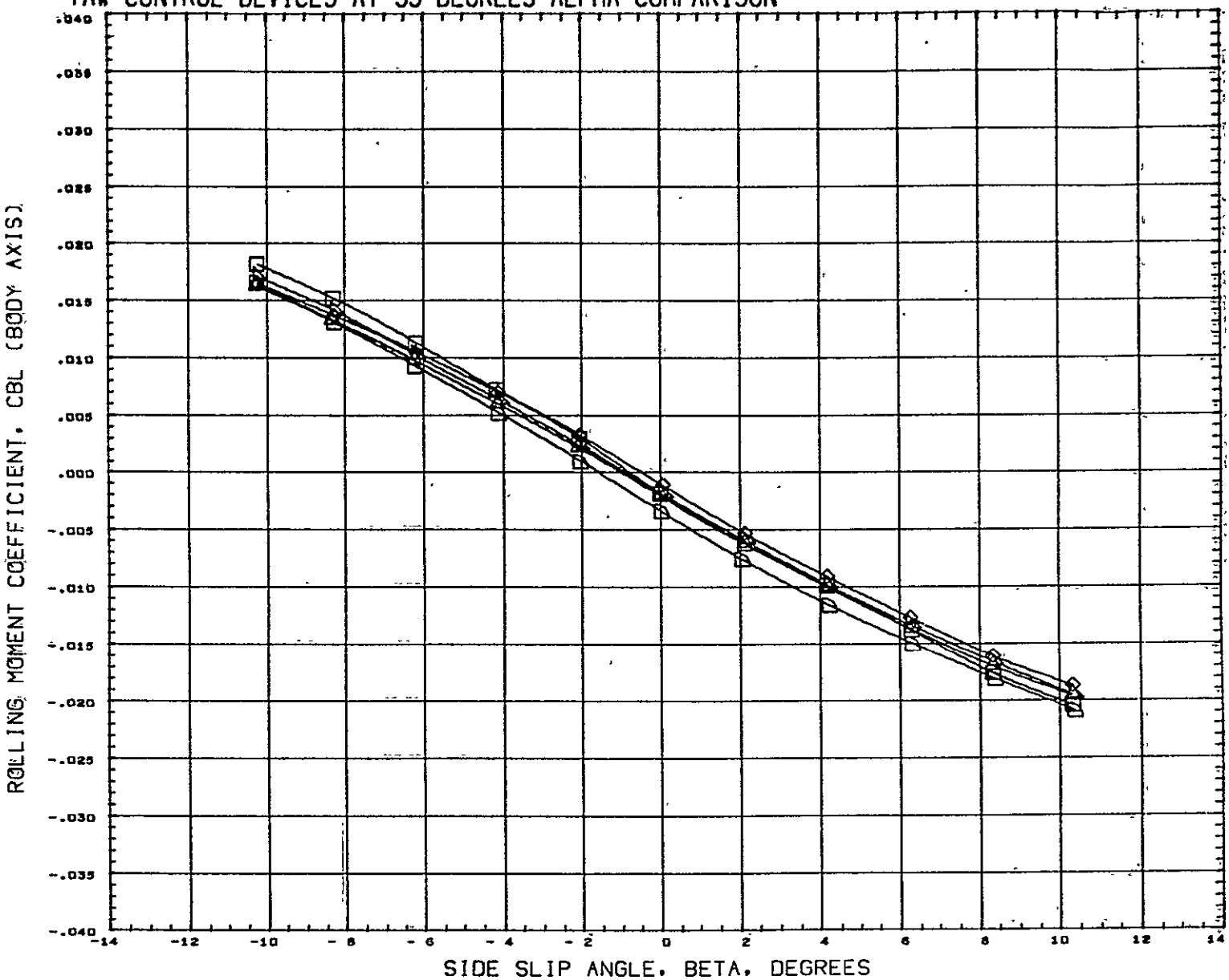


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)		MSFC481 GD/C(BOOSTER)B19W14C4A	-45.000	-45.000	-45.000	35.000
(F28Y62)		MSFC481 GD/C(BOOSTER) B19W14C4AF4	-45.000	-45.000	-45.000	35.000
(F28Y63)		MSFC481 GD/C(BOOSTER) B19W14C4AF5	-45.000	-45.000	-45.000	35.000
(F28Y64)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y65)		MSFC481 GD/C(BOOSTER)B19W14C4S	-45.000	-45.000	-45.000	35.000
(F28Y44)		MSFC481 GD/C(BOOSTER)B19W14C4A	-30.000	0.000	-15.000	35.000

MACH 4.959

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0960	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

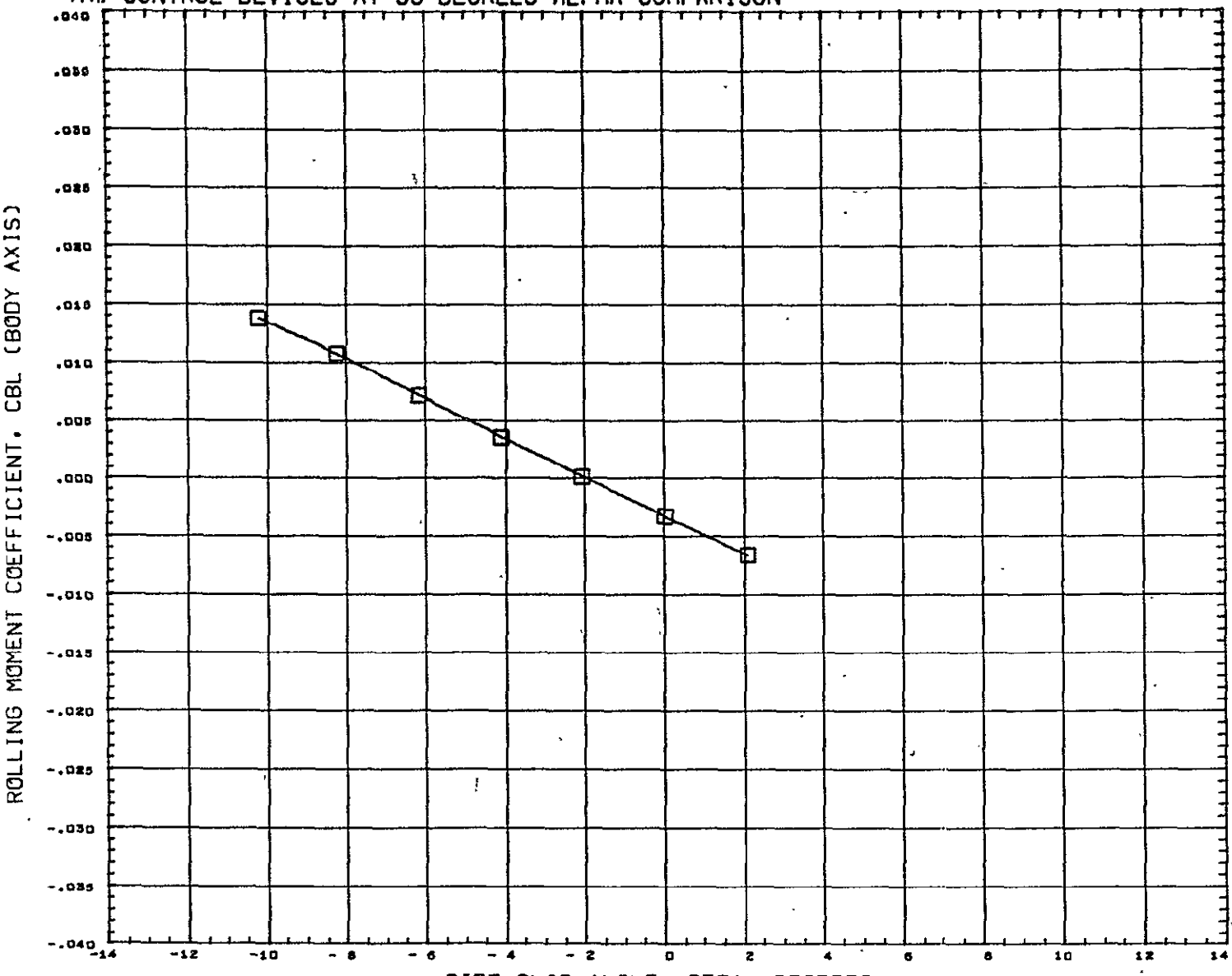


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y62)		MSFC481 GD/C(BOOSTER) B19W14C4AF4	-45.000	-45.000	-45.000	35.000
(F28Y63)		MSFC481 GD/C(BOOSTER) B19W14C4AF5	-45.000	-45.000	-45.000	35.000
(F28Y64)		MSFC481 GD/C(BOOSTER) B19W14C4AF6	-45.000	-45.000	-45.000	35.000
(F28Y65)		MSFC481 GD/C(BOOSTER)B19W14C4S	-45.000	-45.000	-45.000	35.000
(F28Y44)		MSFC481 GD/C(BOOSTER)B19W14C4A	-30.000	0.000	-15.000	35.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

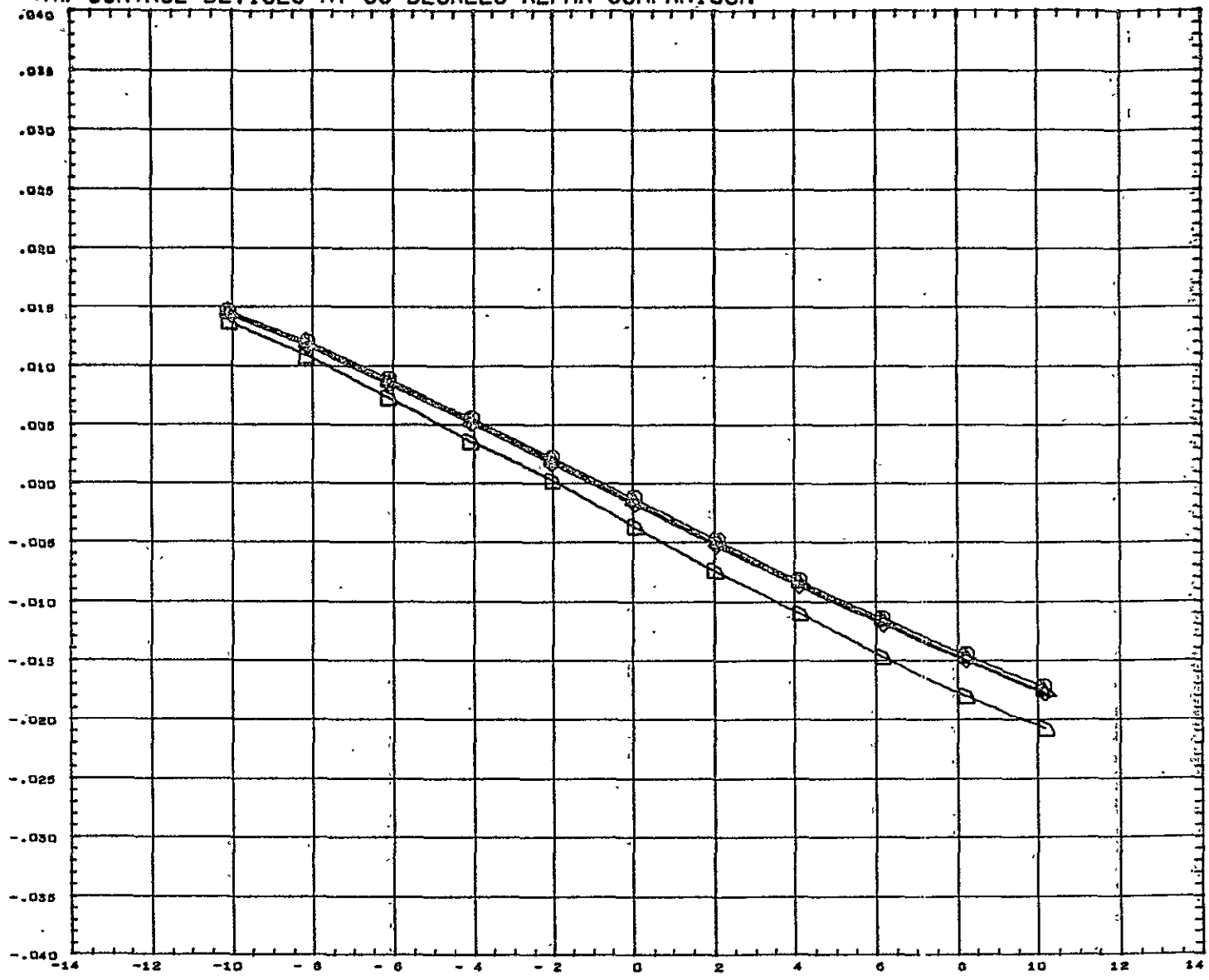


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y62)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y63)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y64)		MSFC481 GD/C(BOOSTER) B19W14C4AF6	-45.000	-45.000	-45.000	35.000
(F28Y65)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y44)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000	-15.000	35.000

MACH 4.450

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

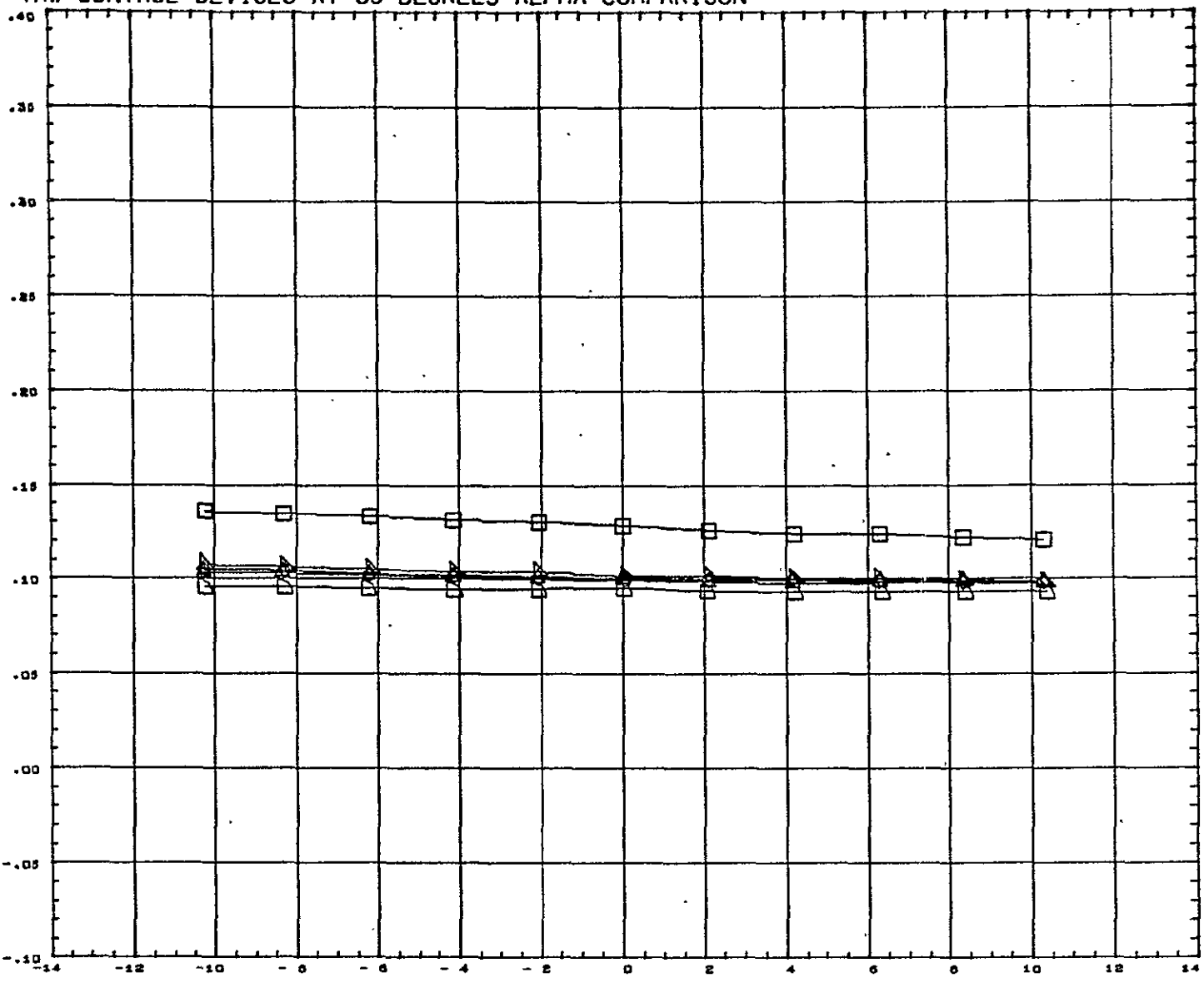


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)	○	MSFC481 GD/C(BOOSTER)B19W14C4A	-45.000	-45.000	-45.000	35.000
(F28Y62)	△	MSFC481 GD/C(BOOSTER) B19W14C4AF4	-45.000	-45.000	-45.000	35.000
(F28Y63)	◇	MSFC481 GD/C(BOOSTER) B19W14C4AF5	-45.000	-45.000	-45.000	35.000
(F28Y64)	▽	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y65)	◁	MSFC481 GD/C(BOOSTER)B19W14C4S	-45.000	-45.000	-45.000	35.000
(F28Y44)	□	MSFC481 GD/C(BOOSTER)B19W14C4A	-30.000	0.000	-15.000	35.000

MACH 4.959

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

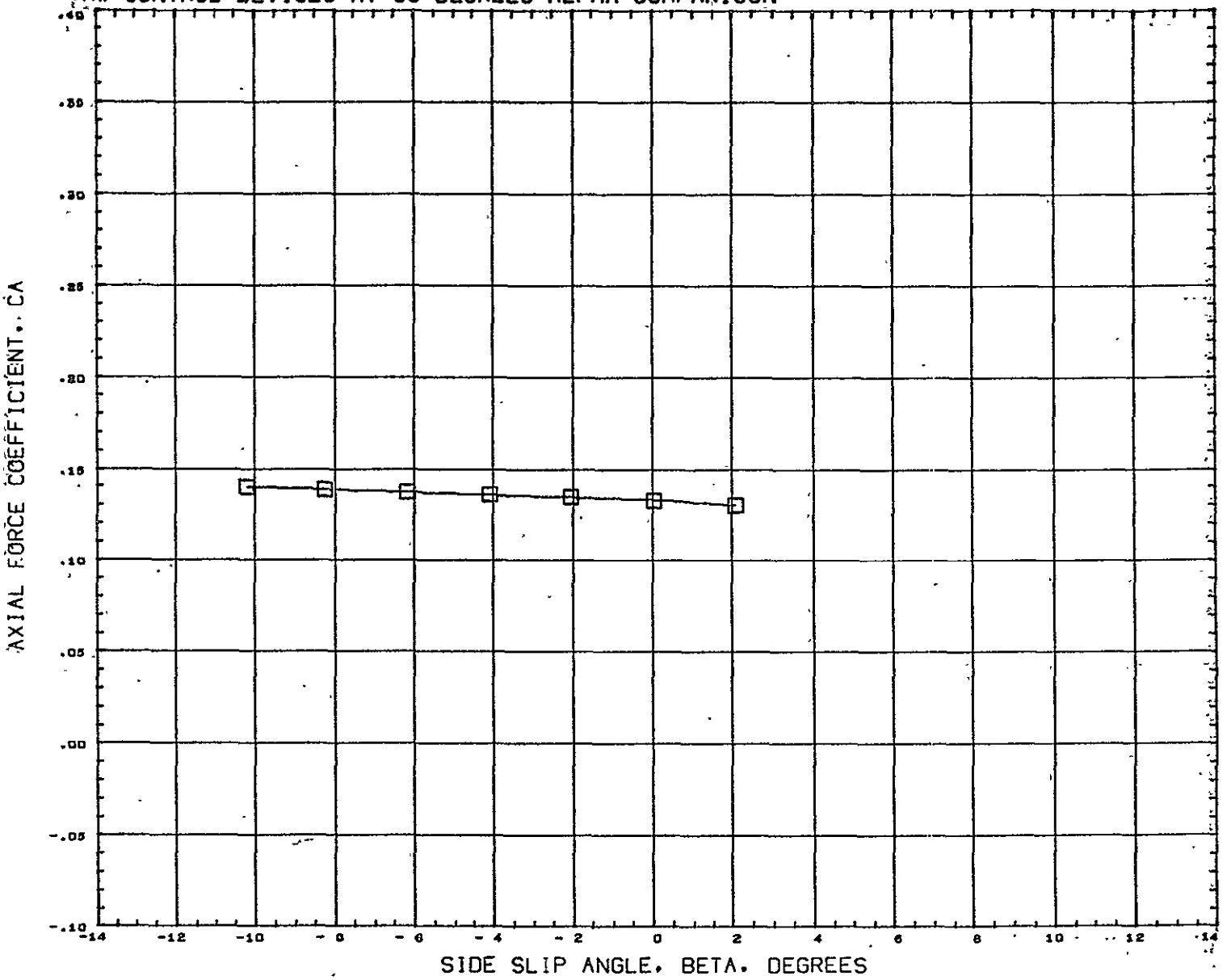


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y62)		MSFC481 GD/C(BOOSTER) B19W14C4AF4	-45.000	-45.000	-45.000	35.000
(F28Y63)		MSFC481 GD/C(BOOSTER) B19W14C4AF5	-45.000	-45.000	-45.000	35.000
(F28Y64)		MSFC481 GD/C(BOOSTER) B19W14C4AF6	-45.000	-45.000	-45.000	35.000
(F28Y65)		MSFC481 GD/C(BOOSTER)B19W14C4S	-45.000	-45.000	-45.000	35.000
(F28Y44)		MSFC481 GD/C(BOOSTER)B19W14C4A	-30.000	0.000	-15.000	35.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

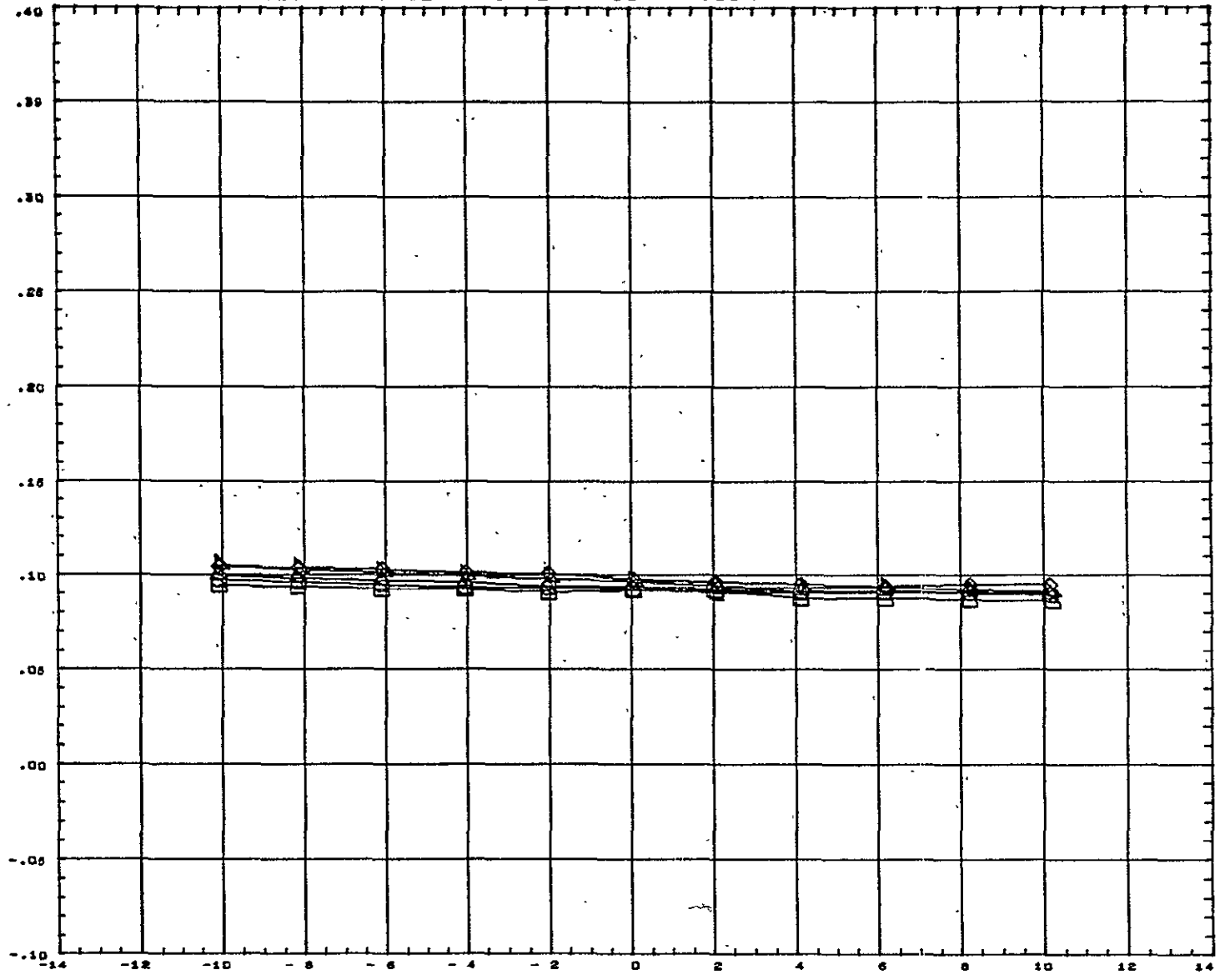


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y01)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y02)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y03)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y04)		MSFC481 GD/C(BOOSTER) B19W14C4AF6	-45.000	-45.000	-45.000	35.000
(F28Y05)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y44)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000	-15.000	35.000

MACH 4.450

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

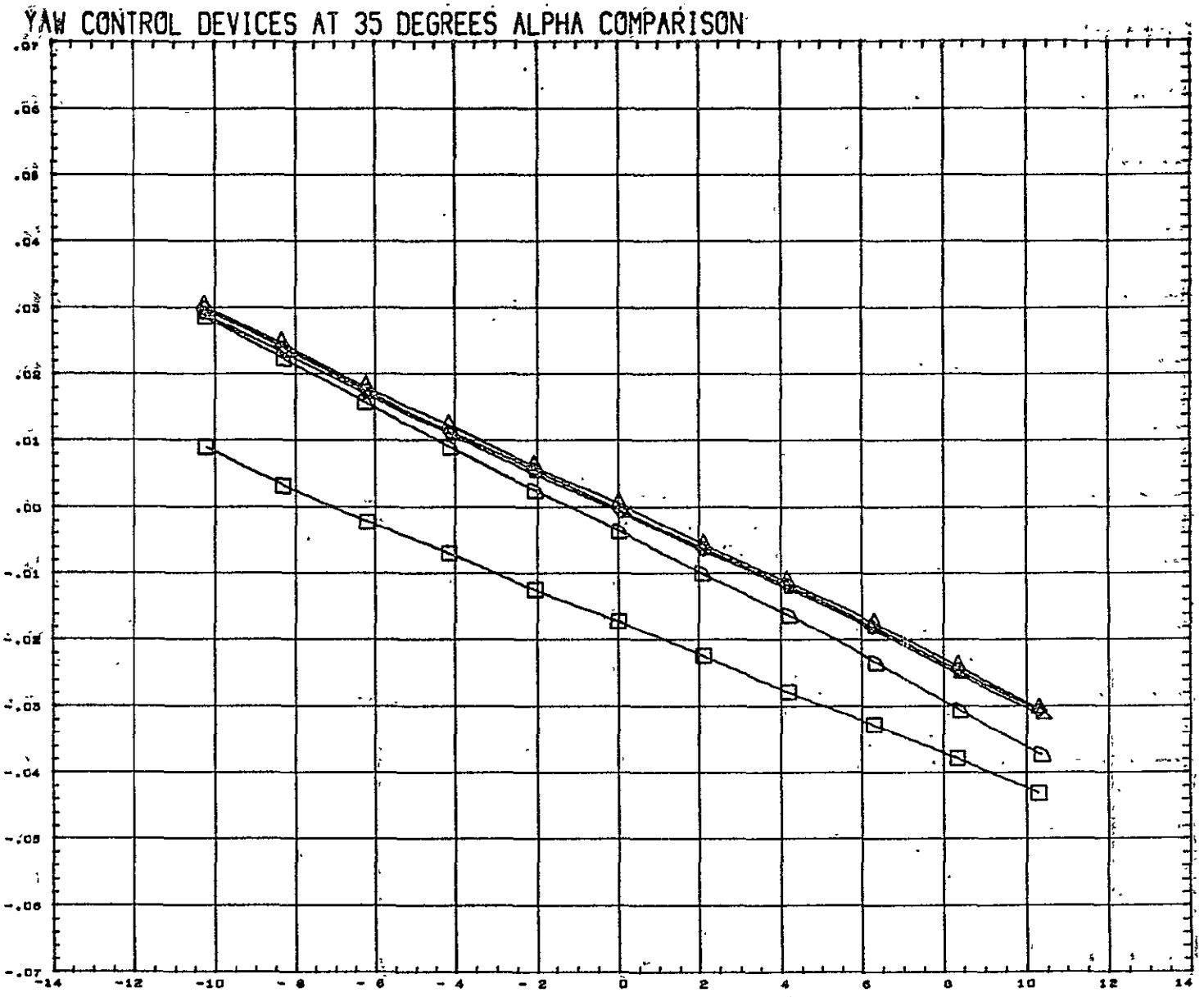


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)		MSFC481 GD/C(BOOSTER)B19W14C4A	-45.000	-45.000	-45.000	35.000
(F28Y62)		MSFC481 GD/C(BOOSTER) B19W14C4AF4	-45.000	-45.000	-45.000	35.000
(F28Y63)		MSFC481 GD/C(BOOSTER) B19W14C4AF5	-45.000	-45.000	-45.000	35.000
(F28Y64)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y65)		MSFC481 GD/C(BOOSTER)B19W14C4S	-45.000	-45.000	-45.000	35.000
(F28Y44)		MSFC481 GD/C(BOOSTER)B19W14C4A	-30.000	0.000	-15.000	35.000

MACH 4.959

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

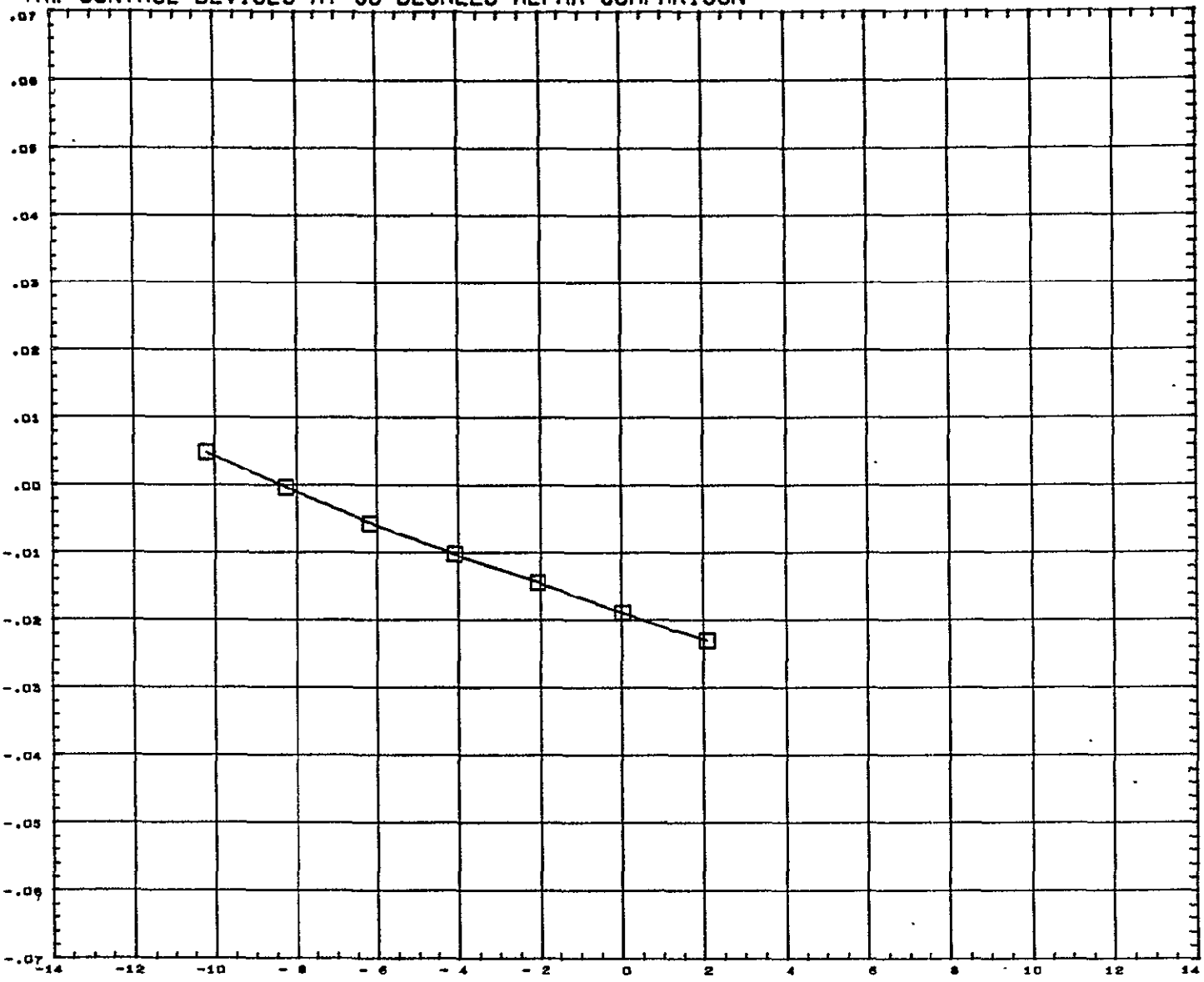


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y62)		M5FC461 GD/C(BOOSTER) B19W14C4AF4	-45.000	-45.000	-45.000	35.000
(F28Y63)		M5FC461 GD/C(BOOSTER) B19W14C4AF5	-45.000	-45.000	-45.000	35.000
(F28Y64)		M5FC461 GD/C(BOOSTER) B19W14C4AF6	-45.000	-45.000	-45.000	35.000
(F28Y65)		M5FC461 GD/C(BOOSTER) B19W14C4S	-45.000	-45.000	-45.000	35.000
(F28Y44)		M5FC461 GD/C(BOOSTER) B19W14C4A	-30.000	0.000	-15.000	35.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

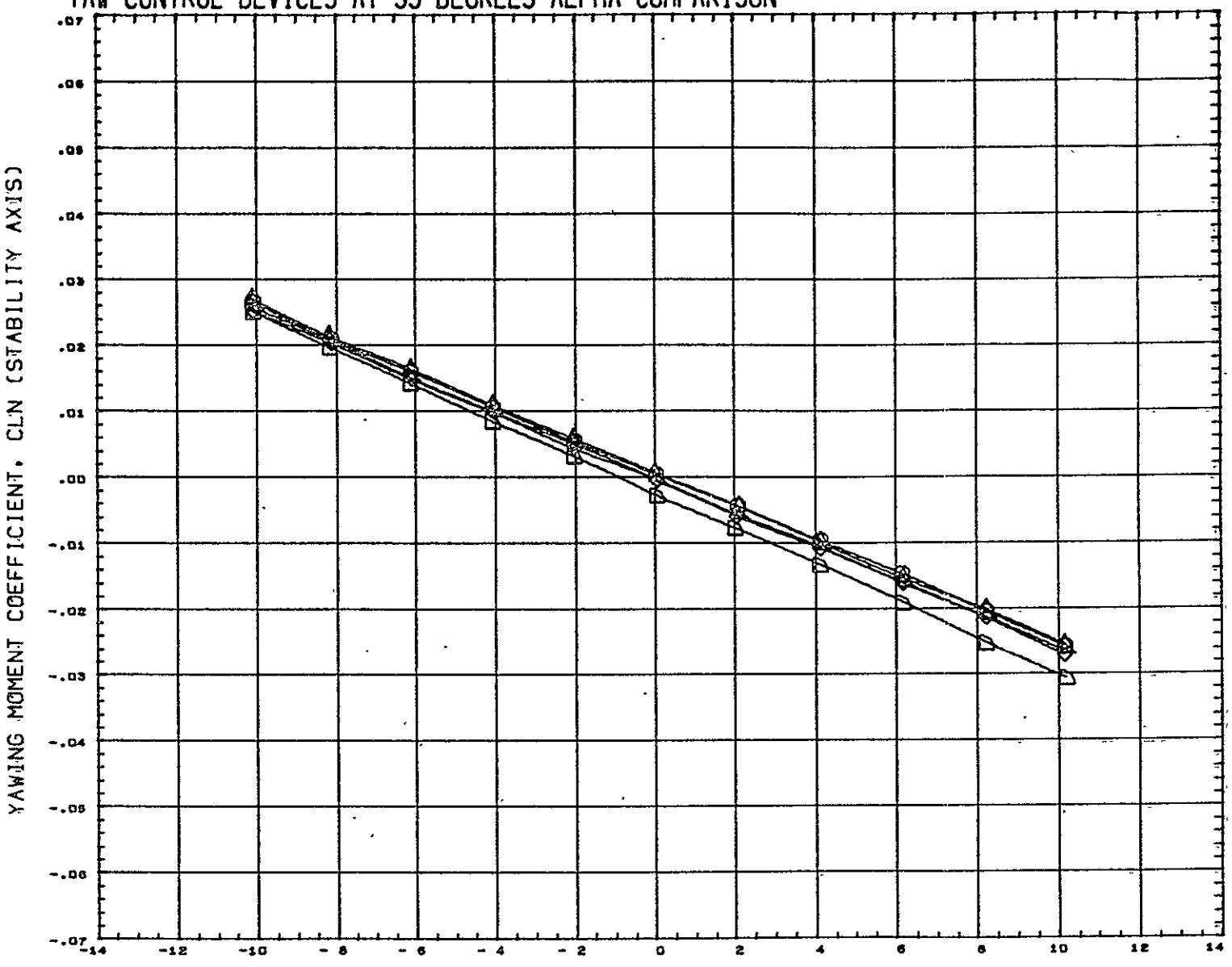


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y62)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y63)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y64)		MSFC481 GD/C(BOOSTER) B19W14C4AF6	-45.000	-45.000	-45.000	35.000
(F28Y65)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y44)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000	-15.000	35.000

MACH 4.450

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0958	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

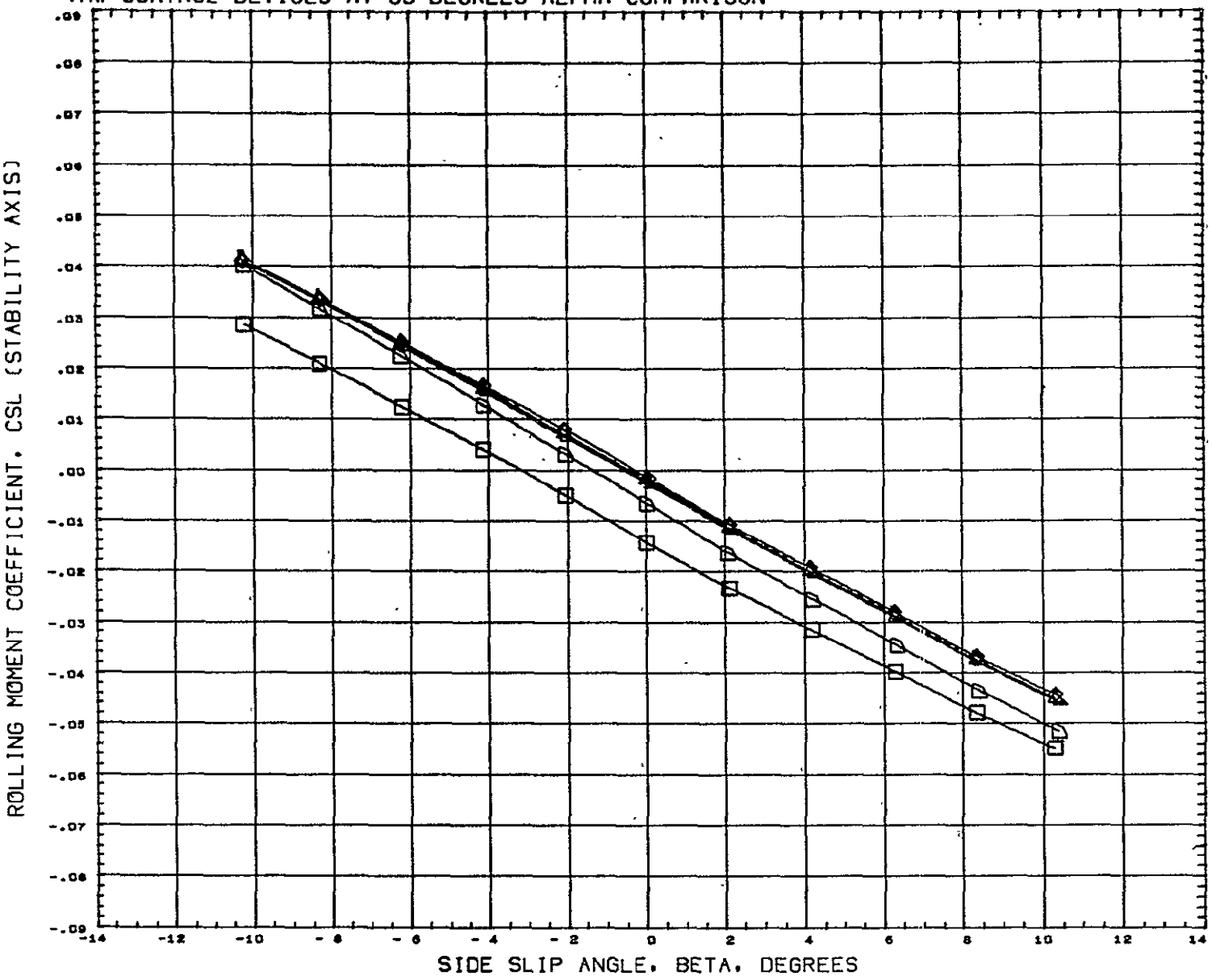


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)		MSFC481 GD/C(BOOSTER)B19W14C4A	-45.000	-45.000	-45.000	35.000
(F28Y62)		MSFC481 GD/C(BOOSTER) B19W14C4AF4	-45.000	-45.000	-45.000	35.000
(F28Y63)		MSFC481 GD/C(BOOSTER) B19W14C4AF5	-45.000	-45.000	-45.000	35.000
(F28Y64)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y65)		MSFC481 GD/C(BOOSTER)B19W14C4S	-45.000	-45.000	-45.000	35.000
(F28Y44)		MSFC481 GD/C(BOOSTER)B19W14C4A	-30.000	0.000	-15.000	35.000

MACH 4.959

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

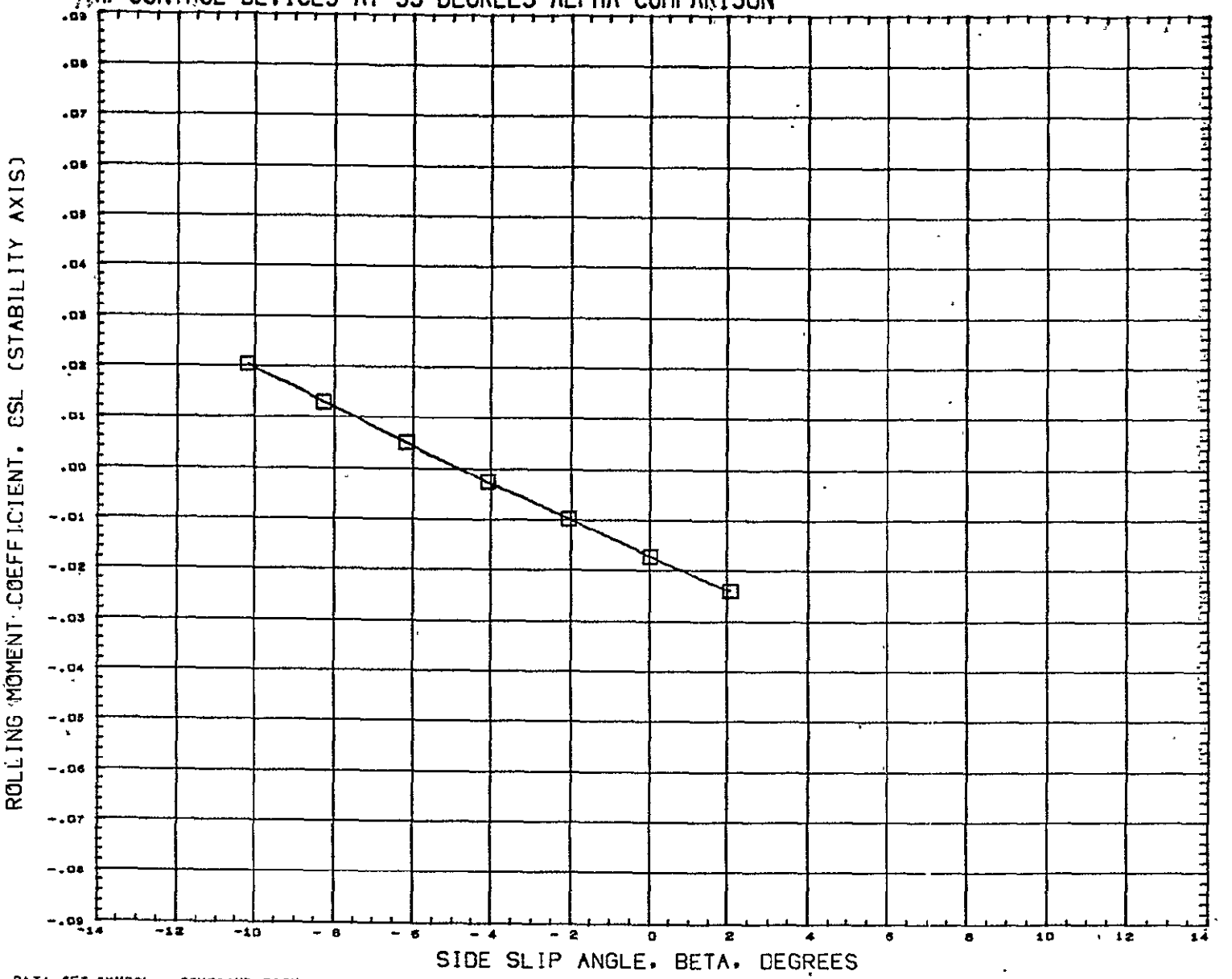


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y62)		MSFC481 GD/C(BOOSTER) B19W14C4AF4	-45.000	-45.000	-45.000	35.000
(F28Y63)		MSFC481 GD/C(BOOSTER) B19W14C4AF5	-45.000	-45.000	-45.000	35.000
(F28Y64)		MSFC481 GD/C(BOOSTER) B19W14C4AF6	-45.000	-45.000	-45.000	35.000
(F28Y65)		MSFC481 GD/C(BOOSTER)B19W14C4S	-45.000	-45.000	-45.000	35.000
(F28Y44)		MSFC481 GD/C(BOOSTER)B19W14C4A	-30.000	0.000	-15.000	35.000

MACH 2.990

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

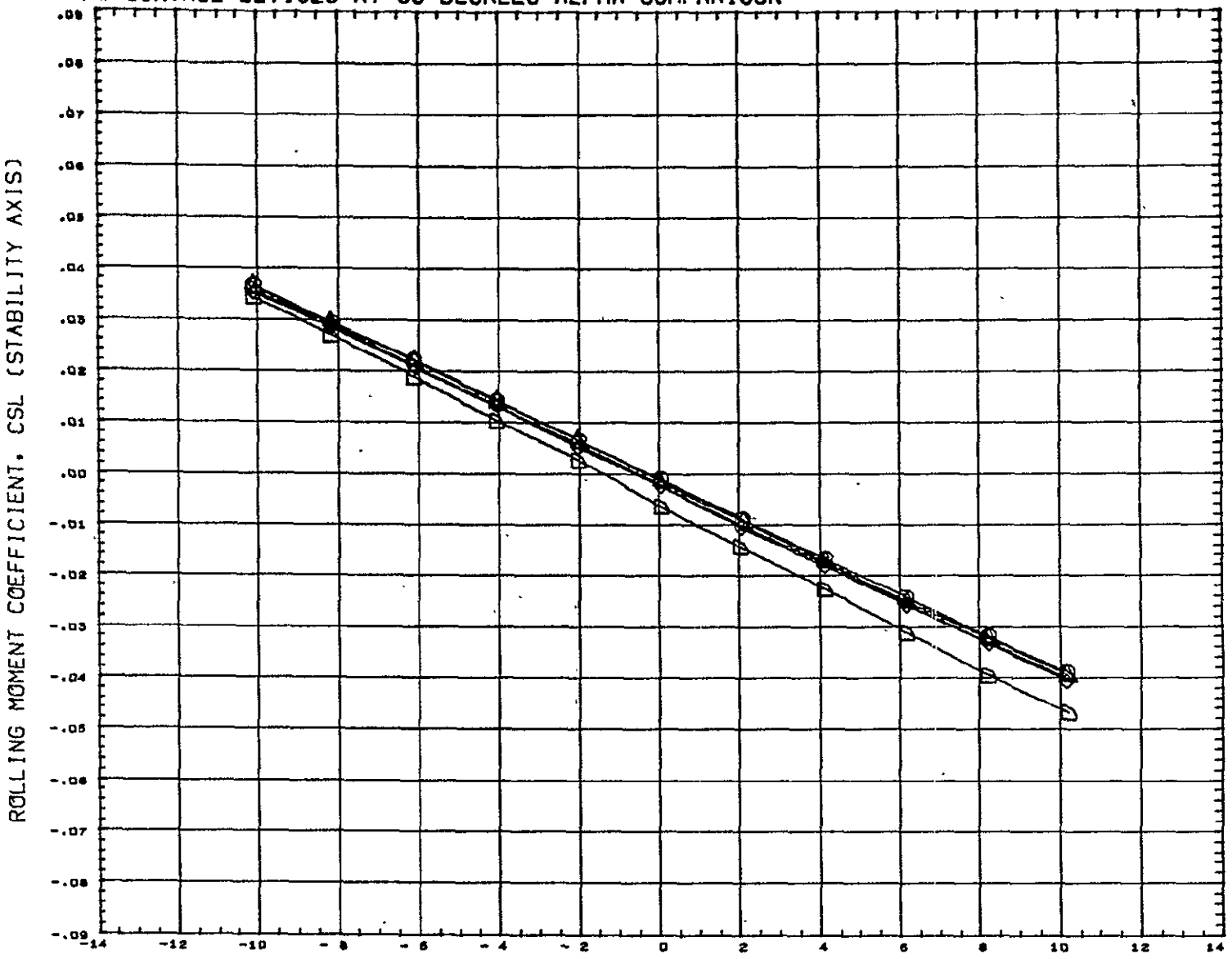


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y62)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y63)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y64)		H8FC481 GD/C(BOOSTER) B19W14C4AF6	-45.000	-45.000	-45.000	35.000
(F28Y65)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y44)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000	-15.000	35.000

MACH 4.450

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

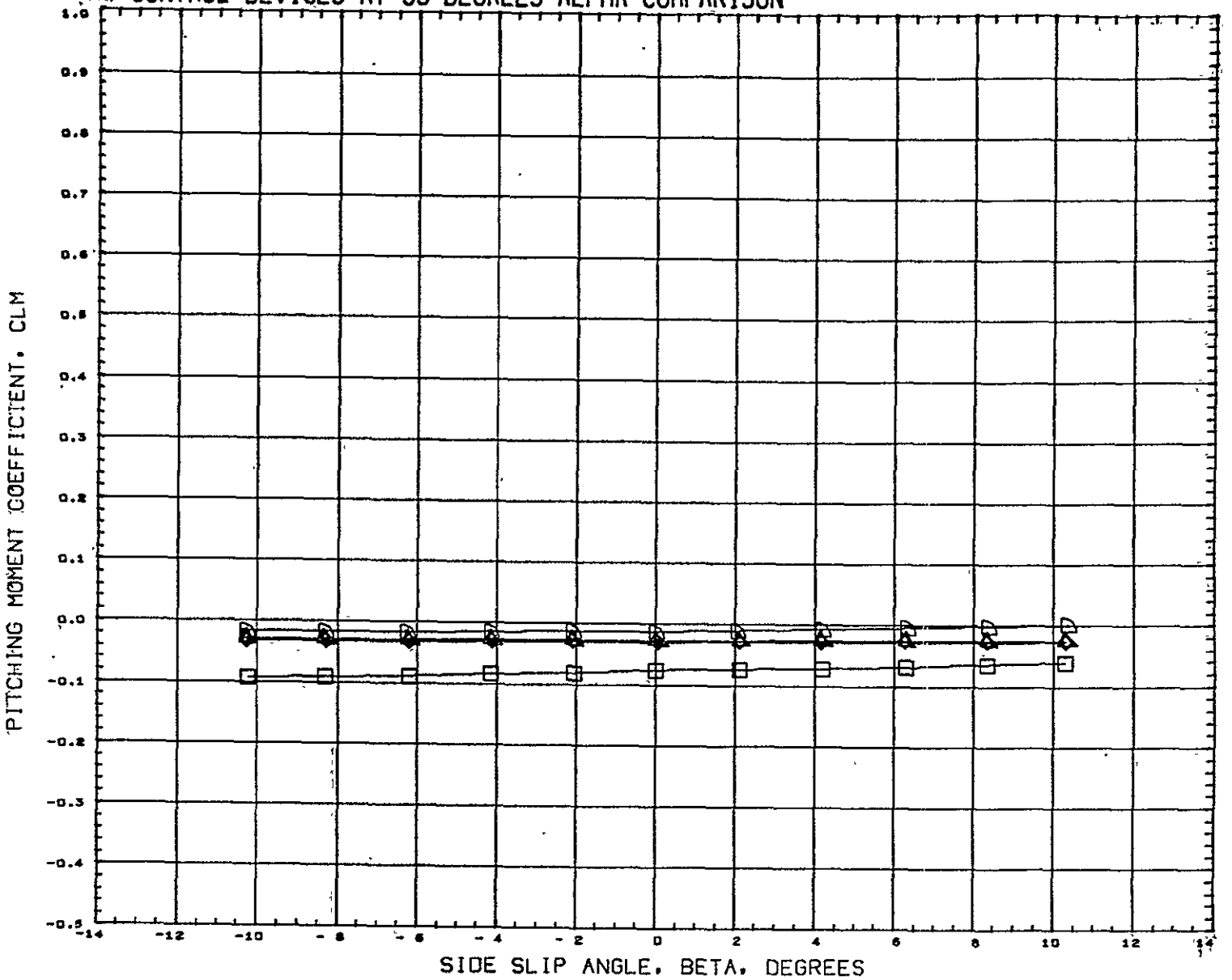


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)	◇	MSFC481 GD/C(BOOSTER)B19W14C4A	-45.000	-45.000	-45.000	35.000
(F28Y62)	○	MSFC481 GD/C(BOOSTER) B19W14C4AF4	-45.000	-45.000	-45.000	35.000
(F28Y63)	⊲	MSFC481 GD/C(BOOSTER) B19W14C4AF5	-45.000	-45.000	-45.000	35.000
(F28Y64)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y65)	△	MSFC481 GD/C(BOOSTER)B19W14C4S	-45.000	-45.000	-45.000	35.000
(F28Y44)	□	MSFC481 GD/C(BOOSTER)B19W14C4A	-30.000	0.000	-15.000	35.000

MACH 4.959

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON



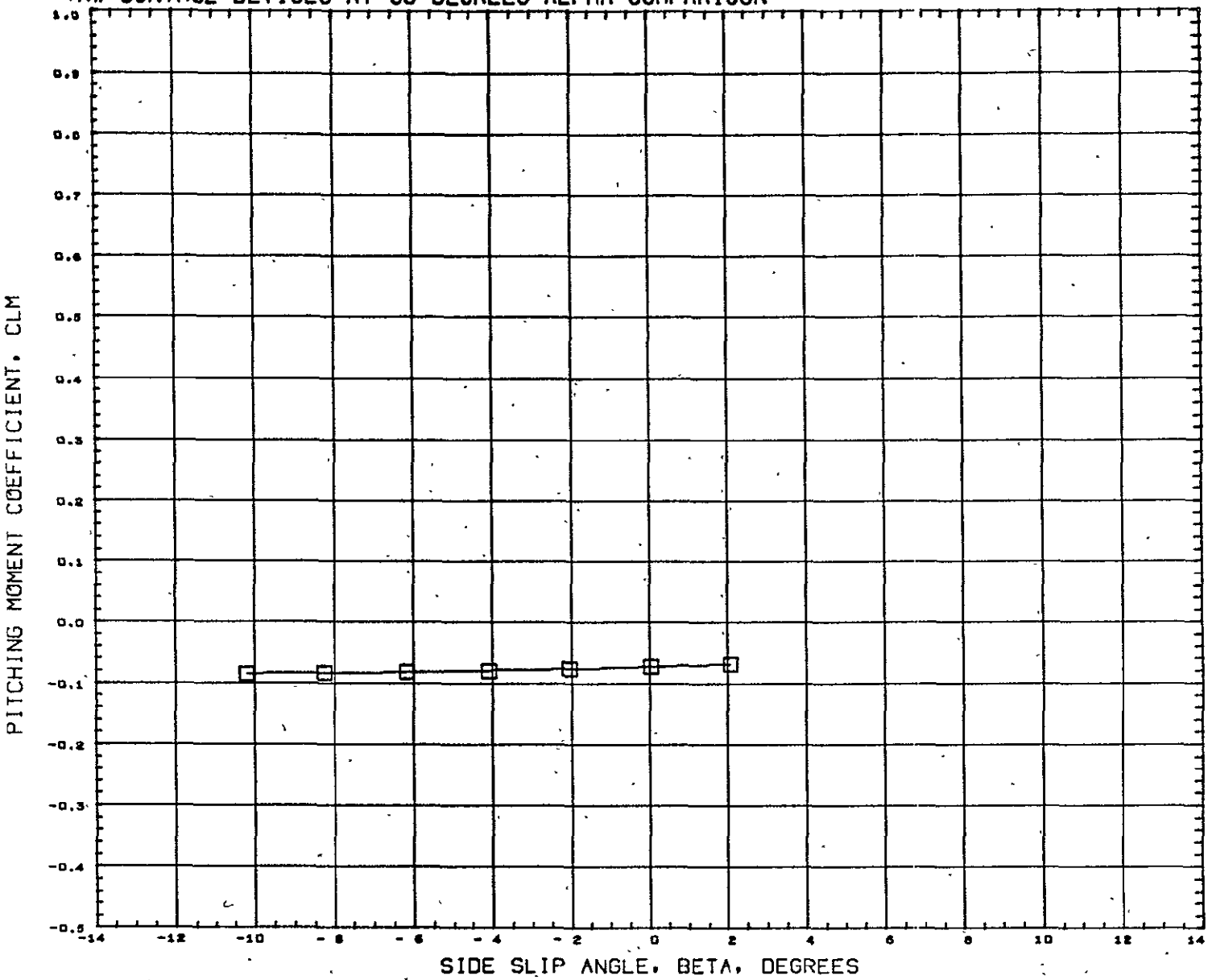
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(F28Y61)		DATA NOT AVAILABLE FOR ALL CONDITIONS
(F28Y62)		MSFC481 GD/C(BOOSTER) B19W14C4AF4
(F28Y63)		MSFC481 GD/C(BOOSTER) B19W14C4AF5
(F28Y64)		MSFC481 GD/C(BOOSTER) B19W14C4AF6
(F28Y65)		MSFC481 GD/C(BOOSTER) B19W14C45
(F28Y44)		MSFC481 GD/C(BOOSTER) B19W14C4A

MACH 2.990

DCL	DCR	CANARD	ALPHA
-45.000	-45.000	-45.000	35.000
-45.000	-45.000	-45.000	35.000
-45.000	-45.000	-45.000	35.000
-45.000	-45.000	-45.000	35.000
-45.000	-45.000	-45.000	35.000
-30.000	0.000	-15.000	35.000

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0930	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

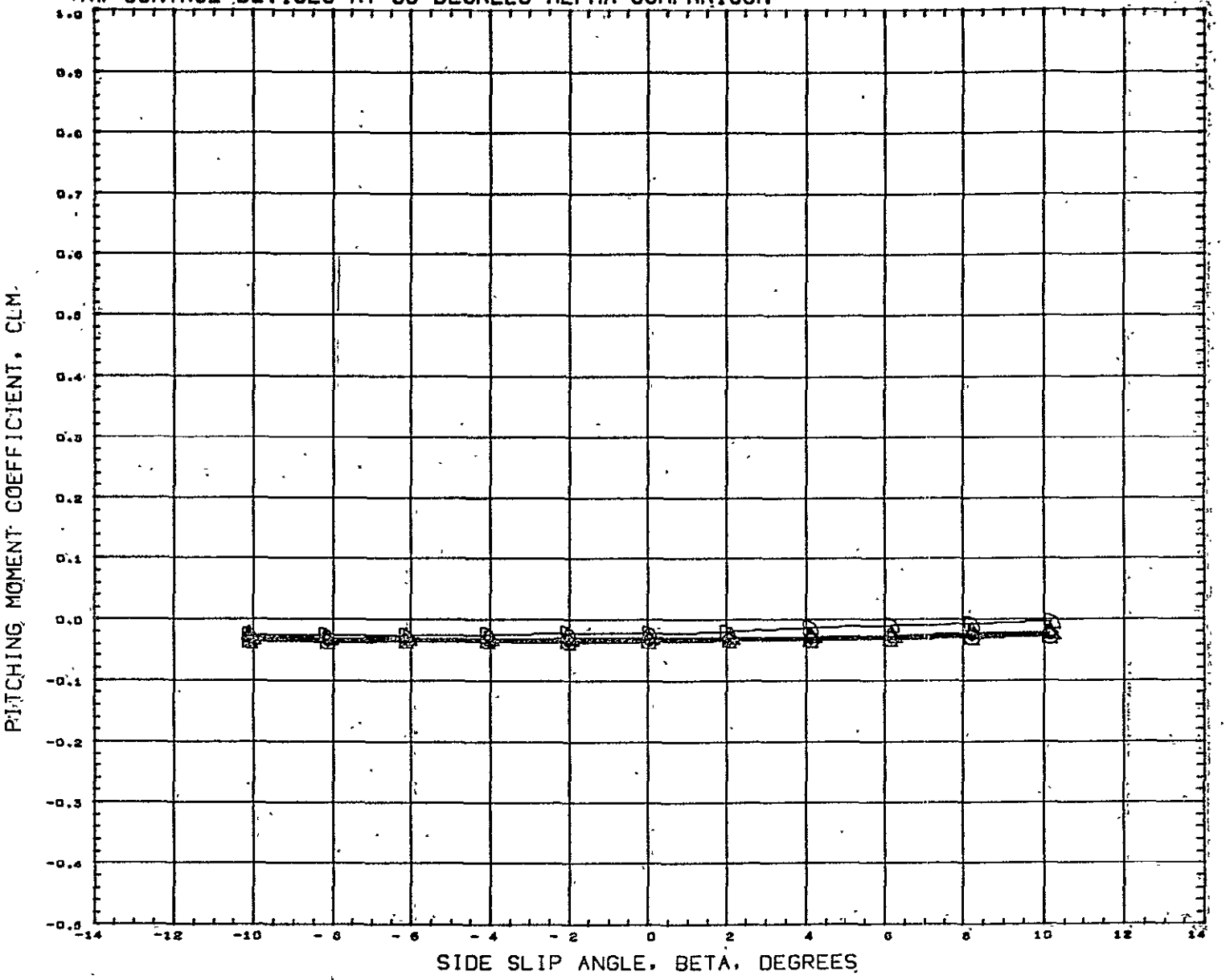


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y62)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y63)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y64)		MSFC481 GD/C(BOOSTER) B19W14C4AF6	-45.000	-45.000	-45.000	35.000
(F28Y65)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y44)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	0.000	-15.000	35.000

MACH 4.450

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

YAW CONTROL DEVICES AT 35 DEGREES ALPHA COMPARISON

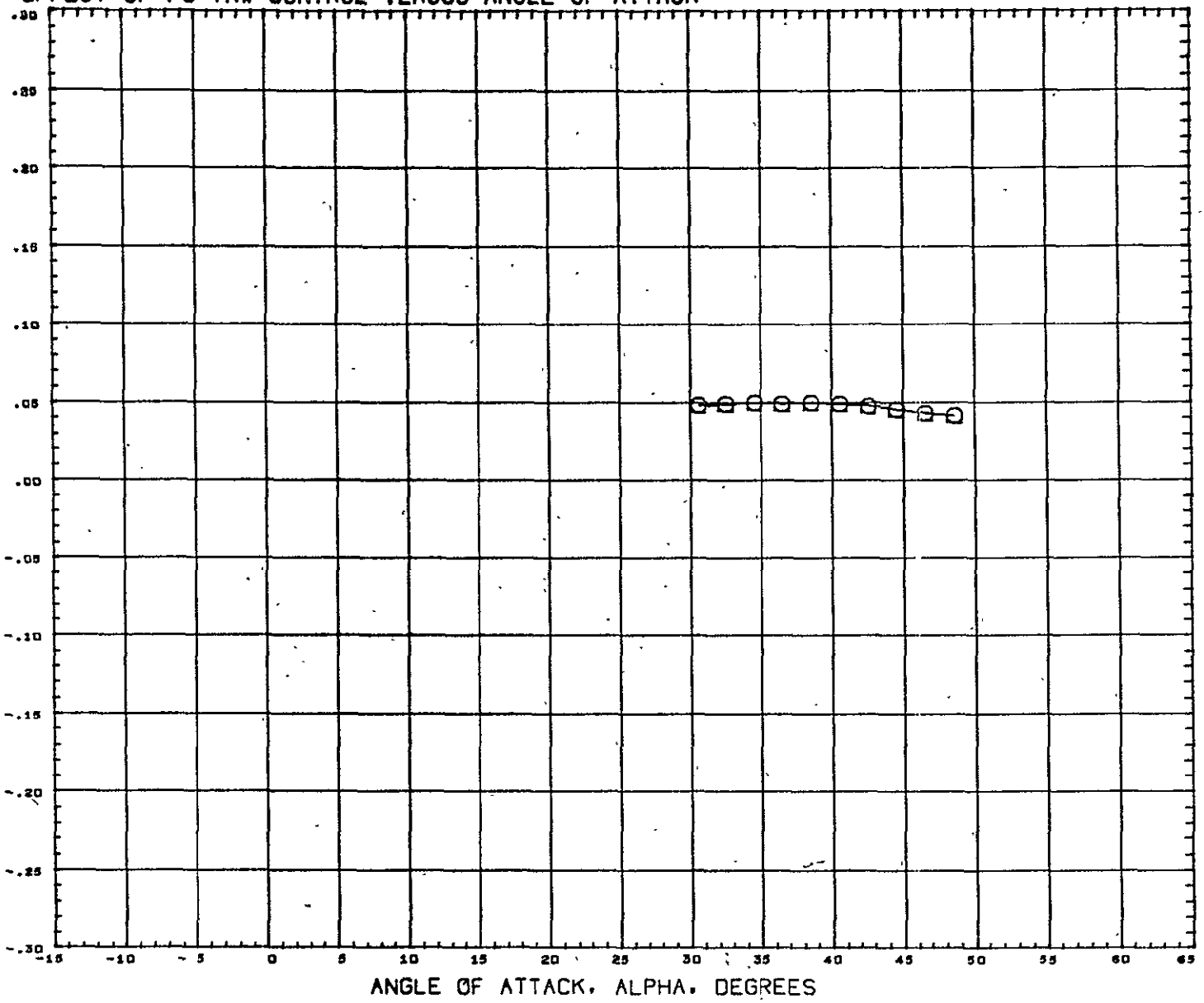


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DCL	DCR	CANARD	ALPHA
(F28Y61)	○	MSFC481 GD/C(BOOSTER)B19W14C4A	-45.000	-45.000	-45.000	35.000
(F28Y62)	△	MSFC481 GD/C(BOOSTER) B19W14C4AF4	-45.000	-45.000	-45.000	35.000
(F28Y63)	◇	MSFC481 GD/C(BOOSTER) B19W14C4AF5	-45.000	-45.000	-45.000	35.000
(F28Y64)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-45.000	-45.000	-45.000	35.000
(F28Y65)	▽	MSFC481 GD/C(BOOSTER)B19W14C45	-45.000	-45.000	-45.000	35.000
(F28Y44)	D	MSFC481 GD/C(BOOSTER)B19W14C4A	-30.000	0.000	-15.000	35.000

MACH 4.959

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF F6 YAW CONTROL VERSUS ANGLE OF ATTACK



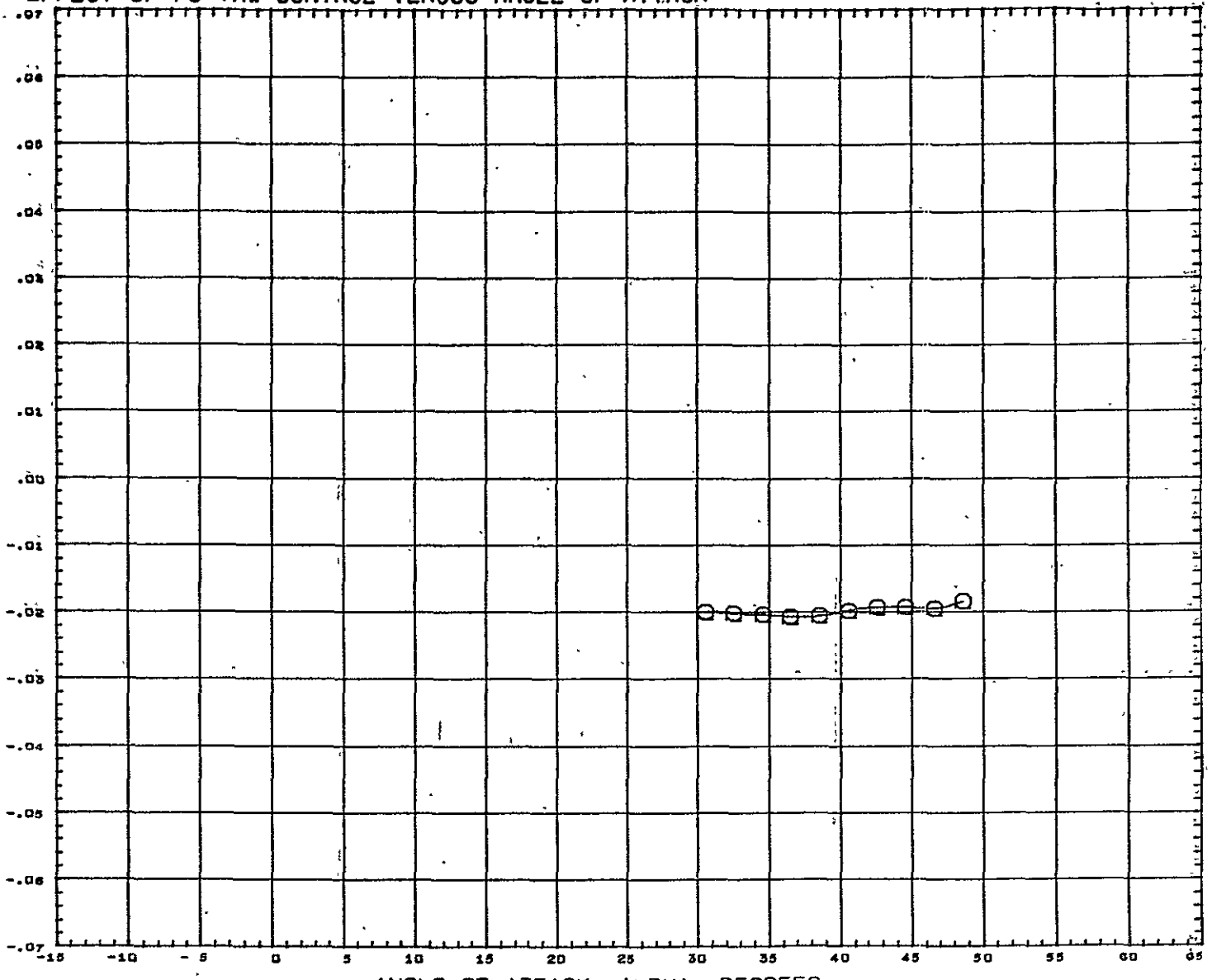
SYMBOL	MACH	PARAMETRIC VALUES			
O	2.990	BETA	0.000	DEL	- 40.000
		DER	- 40.000	DCL	15.000
		DCR	15.000	ELEVON	- 40.000
		CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF F6 YAW CONTROL VERSUS ANGLE OF ATTACK



SYMBOL	MACH
O	2.990

PARAMETRIC VALUES

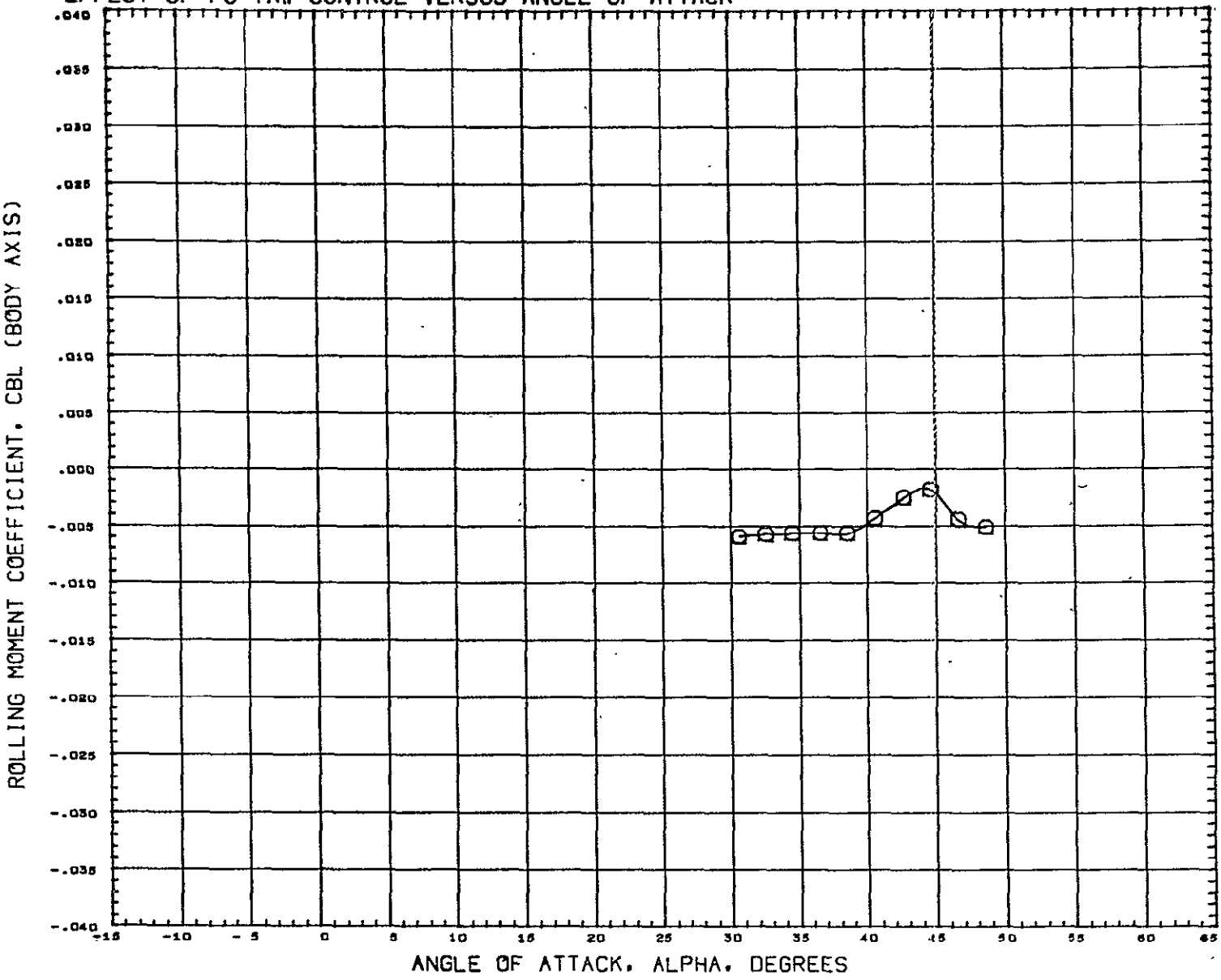
BETA	0.000	DEL	- 40.000
DER	- 40.000	DCL	15.000
DCR	15.000	ELEVON	- 40.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF F6 YAW CONTROL VERSUS ANGLE OF ATTACK

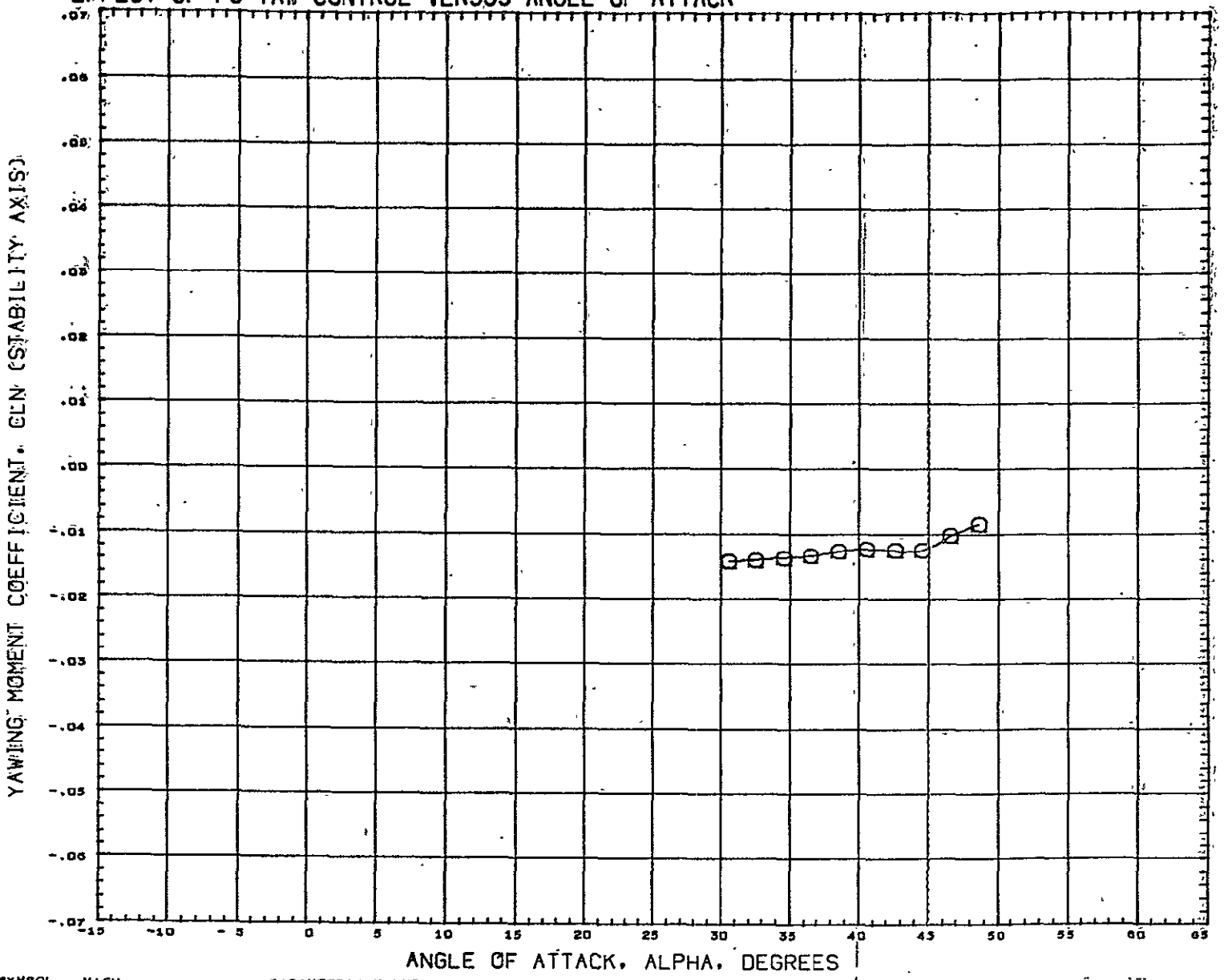


SYMBOL	MACH	PARAMETRIC VALUES			
○	2.990	BETA	0.000	DEL	-40.000
		DER	-40.000	DCL	15.000
		DCR	15.000	ELEVON	-40.000
		CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR*E

REFERENCE INFORMATION		
SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF F6 YAW CONTROL VERSUS ANGLE OF ATTACK



SYMBOL	MACH
O	2.990

PARAMETRIC VALUES

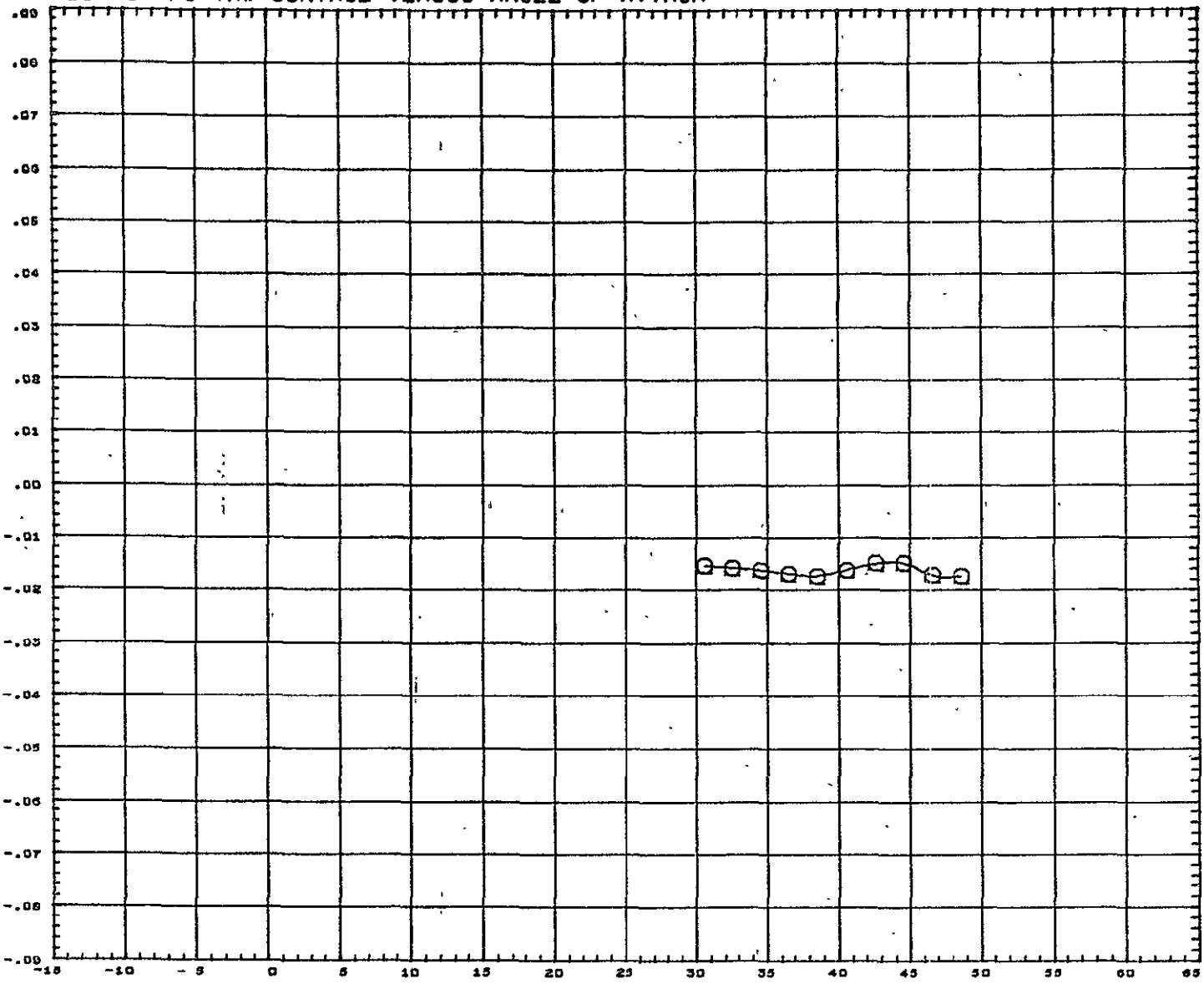
BETA	0.000	DEL	- 40.000
DER	- 40.000	DCL	15.000
DCR	15.000	ELEVON	- 40.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR4E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF F6 YAW CONTROL VERSUS ANGLE OF ATTACK



SYMBOL	MACH
O	2.990

PARAMETRIC VALUES

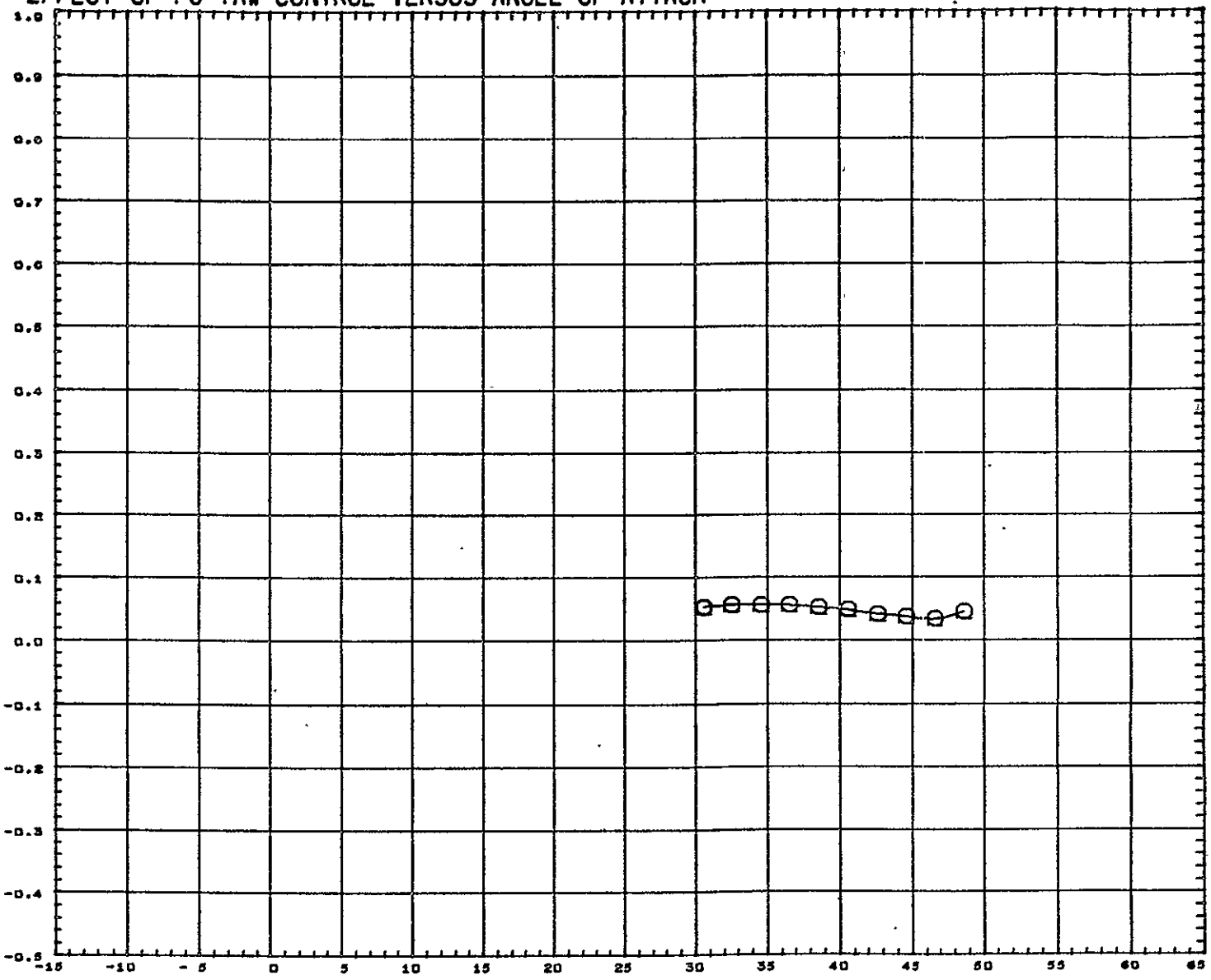
BETA	0.000	DEL	- 40.000
DER	- 40.000	DCL	15.000
DCR	15.000	ELEVON	- 40.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE HVR*E

REFERENCE INFORMATION

SREF	15.6550	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	

EFFECT OF F6 YAW CONTROL VERSUS ANGLE OF ATTACK



SYMBOL	MACH
O	2.990

PARAMETRIC VALUES

BETA	0.000	DEL	- 40.000
DER	- 40.000	DCL	15.000
DCR	15.000	ELEVON	- 40.000
CANARD	15.000	AILRON	0.000

DATA HIST. CODE MVR*E

REFERENCE INFORMATION

SREF	15.6560	SQ.IN.
LREF	3.0950	IN.
BREF	6.0990	IN.
XMRP	6.7100	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0035	