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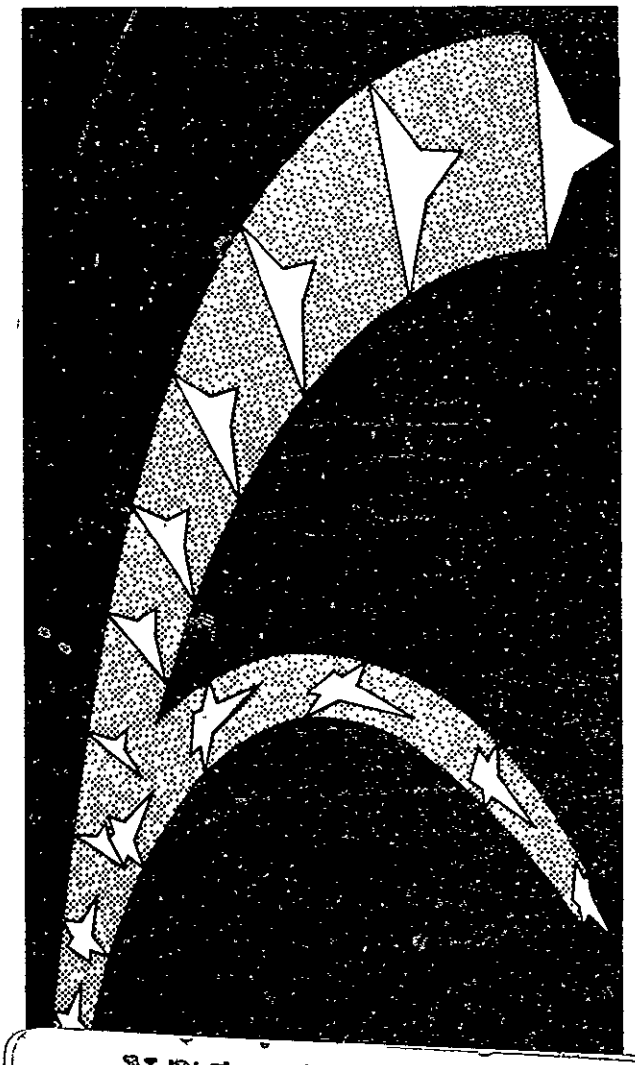

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SADSAC SPACE SHUTTLE
AEROTHERMODYNAMIC
DATA MANAGEMENT SYSTEM

—SPACE SHUTTLE—
GENERAL DYNAMICS/CONVAIR SPACE SHUTTLE BOOSTER

EFFECT OF CRUISE ENGINE NACELLE ARRANGEMENT AND TAIL SIZE ON STATIC STABILITY AND CONTROL EFFECTIVENESS

GENERAL DYNAMICS/CONVAIR
LOW SPEED
WIND TUNNEL TEST RESULTS
DATA REPORT
DECEMBER, 1970

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SCHEDULE II
DRL 184-58
AMENDMENT 130
MARSHALL
SPACE FLIGHT CENTER

SPACE DIVISION CHRYSLER CORPORATION

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DECEMBER 1970

SADSAC/SPACE SHUTTLE

WIND TUNNEL TEST DATA REPORT

CONFIGURATION: General Dynamics/Convair Space Shuttle Booster; 0.0175 Scale

TEST PURPOSE: Determine the effect of Cruise Engine Nacelle Arrangement and Tail Size on Static Stability and Control Effectiveness.

TEST FACILITY: General Dynamics/Convair Low Speed Wind Tunnel

TESTING AGENCY: General Dynamics/Convair

TEST NO. & DATE: CV LSWT Test 580-0; 20 through 26 August 1970

TEST CONDUCTOR(S): W. Zombek, W. Goldberg, and J. Rausch

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TABLE OF CONTENTS

	Page
LIST OF FIGURES	iii
LIST OF PHOTOGRAPHS	iv
ABSTRACT	1
TEST CONDITION	2
TEST FACILITY	3
CONFIGURATIONS INVESTIGATED	4
CONFIGURATION PARTS NOMENCLATURE	5
SYMBOLS	7
REFERENCE DIMENSIONS	10
DATA REDUCTION	12
DIMENSIONAL DATA	14
Body	14
Wing	19
Horizontal Tail	21
Vertical Tail	23
Canard	26
Dorsal Fin	30
Flaps	31
Cruise Engine Nacelles	32
DATA SET COLLATION SHEETS	35
DATA SET DESCRIPTOR SHEETS	42
DATA SET PARAMETER NAME SHEETS	49
DATA SET PARAMETER VALUE SHEETS	55
FIGURES	61
PHOTOGRAPHS	73
DATA DISPLAY INDEX	78
TABULATED DATA LISTING	119
DATA	120
APPENDIX A - LONGITUDINAL TRIM DATA	A1

LIST OF PHOTOGRAPHS

Photo Number		Page
1	Straight Wing Booster Without Cruise Engine Nacelles.....	73
2	Straight Wing Booster with Hi-Bipass Ratio Cruise Engine Nacelles (E_{10}).....	74
3	Straight Wing Booster with Semi-Submerged Low-Bipass Ratio Cruise Engine Nacelles (E_{15}).....	75
4	Straight Wing Booster With Externally Mounted Low-Bipass Ratio Cruise Engine Nacelles (E_{21}).....	76
5	Delta Wing Booster with Small Canards (C_{1A}).....	77

ABSTRACT

This report presents the results of a low speed experimental wind tunnel investigation of a straight wing and a delta wing configuration Space Shuttle Booster model. The test was conducted in the General Dynamics/Convair Low Speed Wind Tunnel. Tests were conducted at dynamic pressures of 50 lb/ft^2 and 100 lb/ft^2. Parameters investigated using the straight wing configuration included horizontal and vertical tail size, control effectiveness, body nose shape and type of engine installation. Parameters investigated using the delta wing configuration included effects of straight wing cruise engine nacelles, and effect of canards.

TEST CONDITIONS
TEST CV LSWT 580-0

MACH NUMBER	REYNOLDS NUMBER per foot	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.184	1.24×10^6	0.347	80 (nominal)
0.259	1.75×10^6	0.694	80 (nominal)

BALANCE UTILIZED: GD Convair No. C-5-1.50

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	500 lb		
SF	500 lb		
AF	140 lb		
PM	3200 in-lb		
YM	1200 in-lb		
RM	1000 in-lb		

COMMENTS:

TEST FACILITY

The General Dynamics/Convair low speed wind tunnel is a close-return atmospheric tunnel, constructed of reinforced concrete. Airflow is created by a 6-bladed propeller, 20 feet in diameter, powered by a 2250-horsepower synchronous motor.

The tunnel has a primary test section 8 feet high, 12 feet wide and 25 feet long. A model or component can be tested in this section at airspeeds up to 300 mph. The sides and ceiling of the test section are largely glass windows. These windows and fluorescent lights, housed in corner fillets in the test section, provide excellent model observation and model photography. Personnel access doors open directly into the test section from the control room and the model service area.

A variety of support systems are available for mounting a model or component. These support systems include single, bicycle, and three-strut supports, sting supports and supports for two dimensional installations.

Digital computer and plotting facilities are available so that the results of a test run can be processed, tabulated, and plotted within 10 minutes of the test run.

LIST OF FIGURES

Figure No.		Page
1	Axis System	61
2	GD/Convair Straight Wing Space Shuttle Booster	62
3	GD/Convair Delta Wing Space Shuttle Booster	63
4	Horizontal Tail Geometry	64
5	Vertical Tail and Dorsal Fin Geometry	65
6	Canard Geometry	66
7	Typical Hi-Bipass Ratio Cruise Engine Nacelle Installation	67
8	Hi-Bipass Ratio Cruise Engine Nacelle Radial Positions	68
9	Typical Semi-Submerged Low-Bipass Ratio Cruise Engine Nacelle Installation	69
10	Semi-Submerged Low-Bipass Ratio Cruise Engine Radial Positions	70
11	Typical Externally Mounted Low-Bipass Ratio Cruise Engine Nacelle Installation	71
12	Externally Mounted Low-Bipass Ratio Cruise Engine Nacelle Radial Positions	72

CONFIGURATIONS INVESTIGATED

The two booster configurations tested are shown in three-view sketches in Figure 2 (straight wing) and Figure 3 (delta wing).

Large and small horizontal-vertical tails were tested with the straight wing booster. Elevator angles of +10, 0, -10, -20 and -30 degrees were tested to determine control effectiveness. Externally mounted hi-bipass, semi-submerged low bipass and externally mounted low-bipass ratio cruise engine nacelles were simulated. The radial position of the nacelles was investigated. Three nose shapes were tested to determine their effect on the configuration. Flaps deflected at 45 degrees were used in several runs to determine their effect with various engine nacelle arrangements at both 0 and -30 degrees of elevator.

The delta wing was tested both with and without externally mounted low bipass ratio cruise engine nacelles. Canard size and location were also investigated.

The components used to build up each configuration are presented on page 5 (Configuration Parts Nomenclature). Dimensional data is presented on pages 14 through 34 . General Dynamics/Convair TN-70-AE-12 and Addendum A contains detailed model part drawings. The configurations tested are presented on the Data Set Collation sheets on pages 35 through 41 .

CONFIGURATION PARTS NOMENCLATURE

Fuselage

B_7 Basic body for delta wing configuration (nose at model sta. 1.47 in)

B_9 Basic body used for externally mounted hi-or low-bipass ratio cruise engine nacelles (nose at model sta. -2.73 in)

B_{10} Body used with semi-submerged low bipass ratio cruise engine nacelles (same as B_9 but with 6 ft full scale constant section removed. Nose at model sta. -1.47 in)

B_{12} Same as body B_9 but short blunt nose (nose at model sta. 0.0 in)

B_{13} Same as body B_9 but with long conical nose (nose at model sta. -5.25 in)

Wing

W_{3A} Conventional straight wing at $15^{\circ}50'$ L.E. sweep located 4.74% ℓ_{ref} aft of nominal longitudinal position (note nominal position defined as .25 MAC at model sta. 28.776 in)

W_5 Delta wing

Horizontal Tail

T_4 Small symmetric section horizontal tail (61.18 sq. in model scale exposed area)

T_5 Large symmetric section horizontal tail (103.018 sq. in. model scale exposed area)

Vertical Tail

V_1 Aspect ratio 1.57 vertical tail (model scale exposed area = 52.04 sq. in.

V_4 Small, aspect ratio 1.34, vertical tail (model scale exposed area = 36.76 sq. in.)

V_5 Large, aspect ratio 1.34, vertical tail (model scale exposed area = 55.13 sq. in.)

Cruise Engine Nacelles

E_9, E_{10}, E_{11}, E_{12}, E_{13}, E_{26}, E_{27}, E_{28} - Hi-Bypass ratio (4 each - see Figures 7 and 8 for radial positioning)

Cruise Engine Nacelles (cont'd)

E_{14}, E_{15}, E_{16}, E_{17}, E_{24}, E_{25} - Semi-submerged low-bipass ratio (8 each- see Figures 9 and 10 for radial positioning)

E_{18}, E_{19}, E_{20}, E_{21} - Low-bipass ratio (8 each - see Figures 11 and 12. for radial positioning)

E_{22} - Hi-bipass ratio-podded (4 engines - two per pod)

Canards

C_{1A} Small canard, trailing edge at model station 31.02 in.

C_{2A} Large canard, aft mounted, trailing edge at model station 31.24 in

C_{2B} Large canard, fore mounted, trailing edge at model station 25.24 in

C_{3A} Large canard, same area and position as C_{2A}, modified by deflecting trailing edge 20 degrees. Hinge line at .667 root chord.

Flaps

F_1^{45} Straight wing flaps deflected 45 degrees

Miscellaneous

K_2 Mounting ring for externally mounting low-bipass ratio cruise engines on fuselage B_9

K_3 Dorsal fin

SYMBOLS

Symbol	SADSAC Symbol	Description	Units
F_A		Axial Force	lb.
F_{A_b}		Base Axial Force	lb.
F_{A_f}		Forebody Axial Force	lb.
F'_D		Drag Force	lb.
F_N		Normal Force	lb.
F_L		Lift Force	lb.
F_Y		Side Force	lb.
M_y		Pitching Moment	in-lb
$M_{x,s}$		Rolling Moment	in-lb
$M_{z,s}$		Yawing Moment	in-lb
C_A	CA	Total Axial Force Coefficient	
C_{A_b}	CAB	Base Axial Force Coefficient	
C_{A_f}	CAF	Forebody Axial Force Coefficient	
C'_D	CD	Total Drag Coefficient	
C_N	CN	Normal Force Coefficient	
C_L	CL	Lift Coefficient	
C_y	CY	Side Force Coefficient	
$C_{m,s}$	CLM	Pitching Moment Coefficient	
$C_{l,s}$	CSL	Rolling Moment Coefficient	
$C_{n,s}$	CLN	Yawing Moment Coefficient	
α	ALPHA	Angle of attack	deg
β	BETA	Sideslip Angle	deg
L/D	L/D	Lift-to-drag Ratio	

Symbol	SADSAC Symbol	Description	Units
P_∞		Free Stream Static Pressure	psia
P_c		Balance Cavity Pressure	psia
P_b		Base Pressure	psia
C_{p_c}		Balance Cavity Pressure Coefficient	
C_{p_b}		Base Pressure Coefficient	
q	Q(PSI)	Dynamic Pressure	psf
RN/L	RN/L	Reynolds Number Per Foot	
S_{ref}	REFS	Reference Area	sq.in.
b	REFB	Reference span	in.
ℓ_{ref}	REFL	Reference length	in.
$\Lambda_{L.E.}$		Leading edge sweep angle	deg
Γ	DIHDRL	Wing dihedral	deg
i_w		Wing incidence	deg
δ_F	FLAPS	Wing flap deflection	deg
δ_S	SPOILR	Wing spoiler deflection	deg
δ_r	RUDDER	Rudder deflection, positive trailing edge left	deg
δ_{er}	ELEVTR	Vee-tail ruddervator deflection, pitch control, positive both trailing edges down $(\delta_{R_r} + \delta_{L_r})/2$	deg
δ_{rr}	RUDVTR	Vee-tail ruddervator deflection, directional control, positive both trailing edges right $(\delta_{L_r} - \delta_{R_r})/2$	deg
δ_{ee}	ELEVON	Elevon deflection, positive both trailing edges down, $(\delta_{R_e} + \delta_{L_e})/2$	deg

Symbol	SADSAC Symbol	Description	Units
δ_{ae}	AILRON	Aileron deflection, positive left side down, right side up $(\delta_{L_e} - \delta_{R_e})/2$	deg
ϕ		Vee-tail rollout angle, measured from vertical	deg
	CANARD	Parameter name to denote the installation of canards, parameter values of -1.0, -2.0, 2.0, and -3.0 were assigned to canards C1A, C2A, C2B, and C3A respectively	

REFERENCE DIMENSIONS

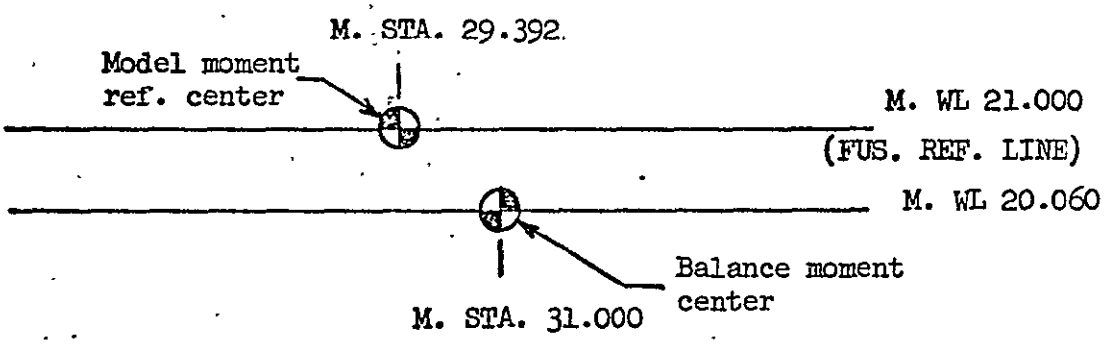
Although two basic configurations will be tested (conventional wing and delta wing configurations), only one set of reference dimensions will be used in the reduction of wind tunnel data. However a separate reference moment center will be used for the conventional wing configuration and the delta wing configuration. These reference dimensions and reference moment centers are given below.

	Full Scale	Model Scale
S_{ref} - reference area (body planform area of body B_1)	7148 ft^2	316.23 in^2
ℓ_{ref} - reference length (body length of body B_1)	239 ft	50.19 in
b_{ref} - reference span (body width of body B_1)	35 ft	7.35 in
Moment reference center - percent reference length		
Conventional wing configuration	64 percent	64 percent
Delta wing configuration	73 percent	73 percent

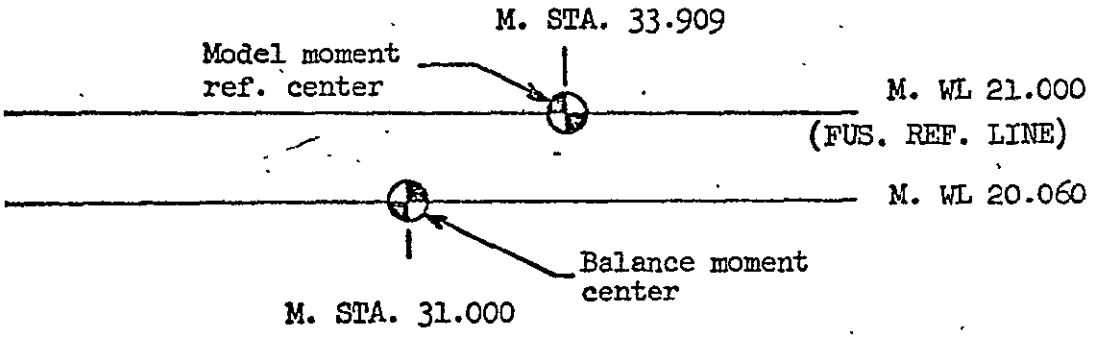
Note that the distance to the moment reference center is measured from model station -2.73 inches for both the conventional and delta wing configuration.

The relationship between the balance moment center and the moment reference center for each configuration is shown in the sketches below.

Conventional wing configuration



Delta wing configuration



DATA REDUCTION

The quantities measured during the test include the following:

a) angle of attack (degrees)

b) angle of yaw (degrees)

c) normal force (lb)

d) axial force (lb)

e) side force (lb)

f) pitching moment (in-lb)

g) yawing moment (in-lb)

h) rolling moment (in-lb)

i) balance cavity and fuselage base pressures (psia)

j) tunnel operating conditions

All measured data was reduced to coefficient form referenced to both stability and body axis systems. Axial force data was corrected for differences in balance cavity and base pressures. The following relations were used to correct the measured data.

$$F_A = F_{A_{MEAS.}} - (\Delta P_b - \Delta P_c) S_c$$

$$F_{A_b} = (\Delta P_b) S_b$$

$$F_{A_f} = F_A - F_{A_b}$$

where the quantities used above are defined as follows:

$$\Delta P_b = \frac{(P_{b_1} + P_{b_2} + P_{b_3} + P_{b_4})}{4} - P_\infty$$

$$\Delta P_c = P_c - P_b$$

S_c = area of balance cavity at base of model

S_b = area of model base including the cavity area

The coefficients to which the data was reduced are given below.

$$C_{p_c} = \left(\frac{\Delta P_c}{q_\infty}\right)\left(\frac{S_c}{S_{ref}}\right)$$

$$C_{p_b} = \left(\frac{\Delta P_b}{q_\infty}\right)\left(\frac{S_b}{S_{ref}}\right)$$

$$C_A = \frac{F_A}{q_\infty S_{ref}}$$

$$C_{A_b} = \frac{F_{A_b}}{q_\infty S_{ref}}$$

$$C_{A_f} = \frac{F_{A_f}}{q_\infty S_{ref}}$$

$$C_N = \frac{F_N}{q_\infty S_{ref}}$$

$$C_Y = \frac{F_Y}{q_\infty S_{ref}}$$

$$C_{m,S} = \frac{M_Y}{q_\infty S_{ref} \ell_{ref}}$$

$$C_{\ell,S} = \frac{M_{x,S}}{q_\infty S_{ref} b_{ref}}$$

$$C_{n,S} = \frac{M_{z,S}}{q_\infty S_{ref} b_{ref}}$$

$$C_L = \frac{F_L}{q_\infty S_{ref}}$$

where $F_L = F_N \cos\alpha - F_A \sin\alpha$

$$C'_D = \frac{F'_D}{q_\infty S_{ref}}$$

where $F'_D = F_N \sin\alpha + F_A \cos\alpha$

All aerodynamic symbols are defined in the Table of Symbols.

DIMENSIONAL DATA

MODEL COMPONENT: BODY - B_7

GENERAL DESCRIPTION: Basic body with centerbody removed (delta wing confgura-
tion body)

DRAWING NUMBER: WT 70-105103 (Sheets 1 and 5)

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length	224.0 ft	47.04 in
Max. Width	35.0 ft	7.35 in
Max. Depth	37.14 ft	7.80 in
Fineness Ratio	6.4	6.4
Area		
Max. Cross-Sectional		
Planform	6622.0 sq. ft.	292.03 sq. in
Wetted		
Base	913.3 sq.ft	42.243 sq. in

MODEL COMPONENT: BODY - B_9

GENERAL DESCRIPTION: Basic straight wing body with nose at model station -2.73 inches and with 1.07 inch length ledge on rear of body.

DRAWING NUMBER: WT-70-105101 (Sheet 1 Chg. Ltr A)
WT-70-105113 (Sheet 1)

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length	244.1 ft	51.261 in
Max. Width	35.0 ft	7.35 in
Max. Depth	37.1 ft	7.80 in
Fineness Ratio (L/W)	6.97	6.97
Area		
Max. Cross-Sectional		
Planform	7326.5 sq.ft.	323.10 sq.in
Wetted		
Base	913.0 sq.ft.	40.276 sq.in

MODEL COMPONENT: BODY - B_{10}

GENERAL DESCRIPTION: Basic straight wing body for use with semi-submerged low bipass ratio engines.

DRAWING NUMBER: WT-70-105101 (Sheet 1 (Chg Ltr A)
WT-70-105112 (Sheet 1)
WT-70-105113 (Sheet 1)

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length	238.1 ft	50.001 in
Max. Width	35.0 ft	7.35 in
Max. Depth	37.1 ft	7.80 in
Fineness Ratio (L/W)	6.80	6.80
Area		
Max. Cross-Sectional		
Planform	7115.5 sq. ft	313.794 sq.in
Wetted		
Base	913.0 sq.ft	40.276 sq. in

MODEL COMPONENT: BODY - B_{12}

GENERAL DESCRIPTION: Basic straight wing body with short nose

DRAWING NUMBER: WT 70-105101 (sheet 1(Chg. Ltr. A)

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length	231.1 ft	48.531 in
Max. Width	35.0 ft	7.35 in
Max. Depth	3.71 ft	7.80 in
Fineness Ratio	6.6	6.6
Area		
Max. Cross-Sectional		
Planform	7118.2 sq.ft	313.92 sq.in
Wetted		
Base	913.0 sq. ft	40.276 sq. in

MODEL COMPONENT: BODY - B_{13}

GENERAL DESCRIPTION: Basic straight wing body but with long nose.

DRAWING NUMBER: WT-70-105101 (Sheet 1 Chg Ltr A)
WT-70-105113 (Sheet 1)

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length	256.1 ft	53.781 in
Max. Width	35.0 ft	7.35 in
Max. Depth	37.1 ft	7.80 in
Fineness Ratio	7.32	7.32
Area		
Max. Cross-Sectional		
Planform	7413.8 sq.ft	326.94 sq.in
Wetted		
Base	913.0 sq.ft	40.276 sq.in

MODEL COMPONENT: Wing - (W_{3A})

GENERAL DESCRIPTION: Conventional straight wing with leading edge sweep of 15°50' at aft longitudinal position.

DRAWING NUMBER: WT-70-105104

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform	2907.0 sq.ft	128.187 sq.in
Wetted		
Span (equivalent)	142.0 ft	29.82 in
Aspect Ratio	6.937	6.937
Rate of Taper	0.284	0.284
Taper Ratio	0.3405	0.3405
Diehedral Angle, degrees	0.0°	0.0°
Incidence Angle, degrees	6.0°	6.0°
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	15°50'	15°50'
Trailing Edge	0.0°	0.0°
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)	30.538 ft	6.413 in
Tip, (equivalent)	10.40 ft	2.184 in
MAC	22.121 ft	4.646 in
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root	4416(Mod)	4416(Mod)
Tip	4414(Mod)	4414(Mod)
EXPOSED DATA		
Area	2002.0 sq.ft	88.288 sq.in
Span, (equivalent)	110.0 ft	23.10 in
Aspect Ratio	6.044	6.044
Taper Ratio	0.400	0.400
Chords		
Root	26.0 ft	5.46 in
Tip	10.4 ft	2.184 in
MAC	19.314 ft	4.056
Fus. Sta. of .25 MAC		28.776 in
W.P. of .25 MAC		
B.L. of .25 MAC		

MODEL COMPONENT: Wing - (W_5)

GENERAL DESCRIPTION: Delta Wing

DRAWING NUMBER: WT 70-105105

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform	8640 sq. ft	379.842 sq.in
Wetted		
Span (equivalent)	138.0 ft	28.98 in
Aspect Ratio	2.211	2.211
Rate of Taper	1.319	1.319
Taper Ratio	0.1651	0.1651
Diehedral Angle, degrees	5.5°	5.5°
Incidence Angle, degrees	3°	2°
Aerodynamic Twist, degrees	0°	0°
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	53°	53°
Trailing Edge	0°	0°
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)	109.0 ft	22.890 in
Tip, (equivalent)	18.0 ft	3.78 in
MAC	74.3 ft	15.60 in
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root	4408	4408
Tip	4408	4408
EXPOSED DATA		
Area	5500 sq.ft	241.442 sq.in
Span, (equivalent)	105.85 ft	22.228 in
Aspect Ratio	2.046	2.046
Taper Ratio	0.207	0.207
Chords		
Root	87.0 ft	18.27 in
Tip	18.0 ft	3.78 in
MAC	60.0 ft	12.61 in
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		

MODEL COMPONENT: Small Horiztonal Tail - T_4

GENERAL DESCRIPTION: Small horizontal tail with zero trailing edge sweep

DRAWING NUMBER: WT-70-105111 (Sheet 2 of 2)

DIMENSIONS: (Exposed)	FULL-SCALE	MODEL SCALE
Area	1388 sq.ft	61.18 sq.in
Span (equivalent)	64.5 ft	13.546 in
Inb'd equivalent chord	27.60 ft	5.796 in
Outb'd equivalent chord	15.44 ft	3.242 in
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	50.0%	50.0%
At Outb'd equiv. chord	50.0%	50.0%
Sweep Back Angles, degrees		
Leading Edge	21.0°	21.0°
Tailing Edge	0.0°	0.0°
Hingeline	10.7°	10.7°
Area Moment (Normal to hinge line)		
Taper ratio	0.56	0.56
Aspect ratio	3.0	3.0
MAC	22.05 ft	4.631 in
Airfoil Sections		
Root	·0015	0015
Tip	0012	0012

MODEL COMPONENT: Large Horizontal Tail - T5

GENERAL DESCRIPTION: Large horizontal tail with zero trailing edge sweep

DRAWING NUMBER: WT-70-105111 (Sheet 1 of 2)

DIMENSIONS: (Exposed)	FULL-SCALE	MODEL SCALE
Area	2336 sq.ft.	103.018 sq.in.
Span (equivalent)	83.7 ft	17.598 in
Inb'd equivalent chord	35.71 ft	7.499 in
Outb'd equivalent chord	20.10 ft	4.221 in
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	50.0%	50.0%
At Outb'd equiv. chord	50.0%	50.0%
Sweep Back Angles, degrees		
Leading Edge	21.0 deg	21.0 deg
Tailing Edge	0.0 deg	0.0 deg
Hingeline	10.7 deg	10.7 deg
Area Moment (Normal to hinge line)		
Taper ratio	0.56	0.56
Aspect ratio	3.0	3.0
MAC	28.62 ft	6.010 in
Airfoil Section		
Root	0015	0015
Tip	0012	0012

MODEL COMPONENT: Vertical Tail - V_1

GENERAL DESCRIPTION: Symmetric section vertical tail used with delta wing configuration

DRAWING NUMBER: WT-70-105106 (Sheet 1)

DIMENSIONS: (Exposed)	FULL-SCALE	MODEL SCALE
Area	1179 sq.ft	52.04 sq. in
Span (equivalent)	42.3 ft	8.883 in
Inb'd equivalent chord	35.8 ft	7.518 in
Outb'd equivalent chord	20.0 ft	4.2 in
Ratio Elevator chord/horizontal tail chord		
At Inb'd equiv. chord	0.35	0.35
At Outb'd equiv. chord	0.35	0.35
Sweep Back Angles, degrees		
Leading Edge	38.0°	38.0°
Tailing Edge	32.5°	32.5°
Hingeline	37.13°	37.13°
Area Moment (Normal to hinge line)		
Taper ratio	0.559	0.559
Aspect ratio	1.57	1.57
MAC	28.6 ft	6.016 in
Airfoil section		
Root	0016(Mod)	0016(Mod)
Tip	0014(Mod)	0014(Mod)

MODEL COMPONENT: Small Vertical Tail V_4

GENERAL DESCRIPTION: Small vertical tail with 50 degree leading edge sweep, aspect ratio 1.34

DRAWING NUMBER: WT-70-105110(Sheet 1 of 1)

DIMENSIONS: (exposed)	FULL-SCALE	MODEL SCALE
Area	835.0 sq.ft	36.824 sq.in
Span (equivalent)	33.4 ft	7.014 in
Inb'd equivalent chord	37.5 ft	7.875 in
Outb'd equivalent chord	12.5 ft	2.625 in
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord		
At Outb'd equiv. chord		
Sweep Back Angles, degrees		
Leading Edge	50.0 deg	50.0 deg
Tailing Edge	23.9 deg	23.9 deg
Hingeline		
Area Moment (Normal to hinge line)		
Taper ratio	0.33	0.33
Aspect ratio	1.34	1.34
MAC	27.1 ft	5.691 in
Airfoil section		
Root	0010	0010
Tip	0010	0010

MODEL COMPONENT: Large Vertical Tail - V_5

GENERAL DESCRIPTION: Large vertical tail with 50 degree leading edge sweep, aspect ratio = 1.34

DRAWING NUMBER: WT-70-105110 (Sheet 1 of 1)

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area	1252 sq.ft.	55.219 sq. in
Span (equivalent)	40.92 ft	8.593 in
Inb'd equivalent chord	45.9 ft	9.639 in
Outb'd equivalent chord	15.3 ft	3.213 in
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord		
At Outb'd equiv. chord		
Sweep Back Angles, degrees		
Leading Edge	50.0 deg	50.0 deg
Tailing Edge	23.9 deg	23.9 deg
Hingeline		
Area Moment (Normal to hinge line)		
Taper ratio	0.33	0.33
Aspect ratio	1.34	1.34
MAC	33.15 ft	6.97 in
Airfoil Section		
Root	0010	0010
Tip	0010	0010

MODEL COMPONENT: Canard - C_{1A}

GENERAL DESCRIPTION: Small canard - area = 12 sq. in model scale

DRAWING NUMBER: WT-70-115113 (Sheet 2 of 2)

DIMENSIONS: (Exposed)	FULL-SCALE	MODEL SCALE
Area	272.4 sq.ft	12.00 sq.in
Span (equivalent)	38.10 ft	8.00 in
Inb'd equivalent chord	14.3 ft	3.00 in
Outb'd equivalent chord	0	0
Ratio Elevator chord/horizontal tail chord		
At Inb'd equiv. chord		
At Outb'd equiv. chord		
Sweep Back Angles, degrees		
Leading Edge	36.9 deg	36.9 deg
Tailing Edge	0	0
Hingeline		
Area Moment (Normal to hinge line)		
Taper ratio	0.0	0.0
Aspect ratio	2.67	2.67
MAC	9.53 ft	2.00 in
Incidence angle	7.0 deg	7.0 deg
Model station at trailing edge of exposed root chord		31.02 in
Model waterline of root chord leading edge		20.82 in

MODEL COMPONENT: Canard C_{2A}

GENERAL DESCRIPTION: Large canard - area = 48.0 sq. in model scale aft position

DRAWING NUMBER: WT-70-115113 (Sheet 2 of 2)

DIMENSIONS: (Exposed)	FULL-SCALE	MODEL SCALE
Area	1089.6 sq.ft	48.00 sq. in
Span (equivalent)	76.2 ft	16.00 in
Inb'd equivalent chord	28.6 ft	6.00 in
Outb'd equivalent chord	0.0 ft	0.0 in
Ratio Elevator chord/horizontal tail chord		
At Inb'd equiv. chord		
At Outb'd equiv. chord		
Sweep Back Angles, degrees		
Leading Edge	36.9 deg	36.9 deg
Tailing Edge	0.0 deg	0.0 deg
Hingeline		
Area Moment (Normal to hinge line)		
Taper ratio	0.0	0.0
Aspect ratio	2.67	2.67
MAC	19.06 ft	4.0 in
Incidence angle	7.0 deg	7.0 deg
Model station at trailing edge of exposed root chord		31.24 in
Model waterline of root chord leading edge		21.18 in

MODEL COMPONENT: Canard - C_{2B}

GENERAL DESCRIPTION: Large Canard - Area = 48.0 sq. in model scale at forward position.

DRAWING NUMBER: WT-70-1151113 (Sheet 2 of 2)

DIMENSIONS: (Exposed)	FULL-SCALE	MODEL SCALE
Area	1089.6 sq.ft	48.00 sq. in
Span (equivalent)	76.2 ft	16.00 in
Inb'd equivalent chord	28.6 ft	6.00 in
Outb'd equivalent chord	0.0 ft	0.0 in
Ratio Elevator chord/horizontal tail chord		
At Inb'd equiv. chord		
At Outb'd equiv. chord		
Sweep Back Angles, degrees		
Leading Edge	36.9 deg	36.9 deg
Tailing Edge	0.0 deg	0.0 deg
Hingeline		
Area Moment (Normal to hinge line)		
Taper Ratio	0.0	0.0
Aspect Ratio	2.67	2.67
MAC	19.06 ft	4.0 in
Incidence Angle	7.0 deg	7.0 deg
Model station at trailing edge of exposed root chord		25.24 in
Model water line of root chord leading edge		21.18 in

MODEL COMPONENT: Canard - C_{3A}

GENERAL DESCRIPTION: Modified large canard, aft position with deflected trailing edge 20 degrees down.

DRAWING NUMBER: WT 70-115113 (Sheet 2 of 2)

DIMENSIONS: (Exposed)	FULL-SCALE	MODEL SCALE
Area	1089.6 sq. ft	48.00 sq. in
Span (equivalent)	76.2 ft	16.00 in
Inb'd equivalent chord	28.6 ft	6.00 in
Outb'd equivalent chord	0.0 ft	0.0 in
Ratio Elevator chord/horizontal tail chord		
At Inb'd equiv. chord	0.333	0.333
At Outb'd equiv. chord		
Sweep Back Angles, degrees		
Leading Edge	36.9 deg	36.9 deg
Tailing Edge	0.0 deg	0.0 deg
Hingeline	0.0 deg	0.0 deg
Area Moment (Normal to hinge line)		
Taper Ratio	0.0	0.0
Aspect Ratio	2.67	2.67
MAC	19.06 ft	4.0 in
Incidence Angle	7.0 deg	7.0 deg
Model station at trailing edge of exposed root chord		31.24 in
Model water line of root chord leading edge		21.18 in

MODEL COMPONENT: Dorsal Fin - K_3

GENERAL DESCRIPTION: Dorsal fin with 75.5 deg leading edge sweep.

DRAWING NUMBER:

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area (Exposed)	42.0 sq.ft	1.852 sq.in
Span (equivalent)	5.74 ft	1.205 in
Inb'd equivalent chord	14.7 ft	3.08 in
Outb'd equivalent chord	0.0 ft	0.0 in
Ratio Elevator chord/horizontal tail chord		
At Inb'd equiv. chord		
At Outb'd equiv. chord		
Sweep Back Angles, degrees		
Leading Edge	75.5 deg	75.5 deg
Tailing Edge	48.0 deg	48.0 deg
Hingeline		
Area Moment (Normal to hinge line)		
Taper Ratio	0.0	0.0
Aspect Ratio	0.784	0.784
MAC	9.8 ft	2.053 in

MODEL COMPONENT: Flaps F_1^{45}

GENERAL DESCRIPTION: Conventional wing flaps at 48° deflection

DRAWING NUMBER: WT 70-105104

DIMENSIONS: (total)	FULL-SCALE	MODEL SCALE
Area	513.3 sq.ft	22.64 sq. in
Span (equivalent)	104.75 ft	21.998 in
Inb'd equivalent chord	6.95 ft	1.457 in
Outb'd equivalent chord	2.86 ft	0.601 in
Ratio Elevator chord/horizontal tail chord		
At Inb'd equiv. chord	0.109	0.109
At Outb'd equiv. chord	0.660	0.660
Sweep Back Angles, degrees		
Leading Edge		
Tailing Edge	0.0°	0.0°
Hingeline	0.0°	0.0°
Area Moment (Normal to hinge line)		

MODEL COMPONENT: Engine - E_9, E_{10}, E_{11}, E_{12}, E_{13}, E_{26}, E_{26}, E_{27}, E_{28}

GENERAL DESCRIPTION: Hi-bypass ratio cruise engines - 4 each

DRAWING NUMBER: WT 70-105103 (Sheet 7 (chg. Ltr A))

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length		2.94 in
Max. Width		1.92 in
Max. Depth		1.92 in
Fineness Ratio		1.532
Area		
Max. Cross-Sectional		2.90 sq.in
Planform		5.28 sq. in
Wetted		
Base		0.0 in

MODEL COMPONENT: Engines - E_{14}, E_{15}, E_{16}, E_{17}, E_{24}, E_{25}, E_{18}, E_{19}, E_{20}, E_{21}

GENERAL DESCRIPTION: Low bipass ratio cruise engines - 8 each

DRAWING NUMBER: WT 70-105112 (Sheet 2 of 2)

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length		3.010 in
Max. Width		0.893 in
Max. Depth		0.893 in
Fineness Ratio		3.37
Area		
Max. Cross-Sectional		0.627 sq. in
Planform		2.63 sq. in
Wetted		
Base		0.0

MODEL COMPONENT: Engine - E_{22}

GENERAL DESCRIPTION: Podded high bipass ratio cruise engines

DRAWING NUMBER: WT 70-105113 (Sheet 1 of 2)

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length of pod		11.300 in
Max. Width		1.95 in
Max. Depth		3.85 in
Fineness Ratio L/D		2.94
Area		
Max. Cross-Sectional		6.581 sq. in
Planform (Top)		14.805 sq. in
Planform (Side)		30.47 sq. in
Base		0.0 sq. in

TEST CV LSWT 580-0 DATA SET COLLATION SHEET

☐ PRETEST

☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_{er}	CONTROL DEFLECTION δ_r			NO. of RUNS	MACH NUMBERS .184	MACH NUMBERS .259
RC8001	$B_9 W_{3A}$	A	0	—	—			1		1
RC8002	$B_9 W_{3A} T_4 V_4$	A	0	0	0			1		2
RC8003	$B_9 W_{3A} T_4 V_4 E_{10}$	A	0	0	0			1		3
RC8004	↓	D	-4	0	0			1		4
RC8005	$B_{12} W_{3A} T_4 V_4 E_{10}$	A	0	0	0			1		5
RC8006	$B_9 W_{3A} T_4 V_4 E_{11}$	A	0	0	0			1		6
RC8007	↓	D	-4	0	0			1		7
RC8008	$B_9 W_{3A} T_4 V_4 E_{12}$	A	0	0	0			1		8
RC8009	↓	D	-4	0	0			1		9
RC8010	$B_9 W_{3A} T_4 V_4 E_9$	A	0	0	0			1		10
RC8011	$B_9 W_{3A} T_4 V_4 E_{13}$	A	0	0	0			1		11
RC8012	$B_{10} W_{3A} T_4 V_4 E_{14}$	A	0	0	0			1		12
RC8013	$B_{10} W_{3A} T_4 V_4 E_{15}$	A	0	0	0			1		13
RC8014	$B_{10} W_{3A} T_4 V_4 E_{24}$	A	0	0	0			1		14
RC8015	$B_{10} W_{3A} T_4 V_4 E_{25}$	A	0	0	0			1		15
RC8016	$B_{10} W_{3A} T_4 V_4 E_{16}$	A	0	0	0			1		16
RC8017	$B_{10} W_{3A} T_4 V_4 E_{17}$	A	0	0	0			1		17
RC8018	↓	D	-4	0	0			1		18
RC8019	$B_{12} W_{3A} T_4 V_4 E_{10}$	A	0	0	0			1		19
RC8020	$B_4 W_{3A} T_4 V_4 E_{26}$	A	0	0	0			1		20

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

CLM | CN | CLN | CY | CSL | CA | CAB | CL | CD | L/D | MACH | ALPHA | 10

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

α or β SCHEDULES

$A\alpha$ = -6 TO +18 DEG $\Delta\alpha$ = 2 DEG

$D\alpha$ = -6 TO +12 DEG $\Delta\alpha$ = 2 DEG

35

55

TEST CV LSWT 580-0 DATA SET COLLATION SHEET

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☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_{e_1}	CONTROL DEFLECTION δ_r	NO. of RUNS	MACH NUMBERS .184	MACH NUMBERS .259
RC8021	$B_9\ W_{3A}\ T_4\ V_4\ E_{24}$	D	-4	0	0	1		21
RC8022	$B_9\ W_{3A}\ T_4\ V_4\ E_{22}$	A	0	0	0	1		22
RC8023	$B_9\ W_{3A}\ T_4\ V_4\ K_2\ E_{21}$	A	0	0	0	1		23
RC8024	↓	D	-4	0	0	1		24
RC8025	$B_9\ W_{3A}\ T_4\ V_4\ K_2\ E_{19}$	A	0	0	0	1		25
RC8026	↓	D	-4	0	0	1		26
RC8027	$B_9\ W_{3A}\ T_4\ V_4\ K_2\ E_{20}$	A	0	0	0	1		27
RC8028	↓	D	-4	0	0	1		28
RC8029	$B_9\ W_{3A}\ T_4\ V_4\ K_2\ E_{18}$	A	0	0	0	1		29
RC8030	↓	D	-4	0	0	1		30
RC8031	$B_9\ W_{3A}\ T_4\ V_4\ K_2$	A	0	0	0	1		31
RC8032	↓	D	-4	0	0	1		32
RC8033	$B_9\ W_{3A}\ T_4\ V_4\ E_{27}$	A	0	0	0	1		33
RC8034	↓	D	-4	0	0	1		34
RC8035	$B_9\ W_{3A}\ T_4\ V_4\ E_{26}$	A	0	-10	0	1		35
RC8036	↓	A	0	-20	0	1		36
RC8037	↓	A	0	-30	0	1		37
RC8038	$B_9\ W_{3A}\ T_4\ V_4\ F_1^{45}\ E_{26}$	A	0	-30	0	1	38	
RC8039	$B_9\ W_{3A}\ T_4\ V_4\ E_{28}$	A	0	0	0	1		39
RC8040	↓	D	-4	0	0	1		40

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CLM	CN	CLN	CY	CSL	CA	CAB	CL	CD	L/D	MACH	ALPHA		10

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

α or β SCHEDULES

A: $\alpha = -6$ TO $+18$ DEG; $\Delta\alpha = 2$ DEG

D: $\alpha = -6$ TO $+12$ DEG; $\Delta\alpha = 2$ DEG

TEST CV LSWT 580-0 DATA SET COLLATION SHEET

☐ PRETEST

☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_{e_r}	CONTROL DEFLECTION δ_r			NO. of RUNS	MACH NUMBERS .184	MACH NUMBERS .259										
RCB041	$B_9 W_{3A} T_4 V_4 F_1^{45} E_{28}$	A	0	-30	0			1	41											
RCB042	$B_9 W_{3A} T_4 V_4 E_{28}$	A	0	-30	0			1		42										
RCB043	↓	A	0	10	0			1		43										
RCB044	↓	D	-4	10	0			1		44										
RCB045	$B_9 W_{3A} T_4 V_4$	A	0	-30	0			1		45										
RCB046	↓	A	0	-10	0			1		46										
RCB047	$B_9 W_{3A} E_{28}$	A	0	–	–			1		47										
RCB048	$B_9 W_{3A} E_{13}$	A	0	–	–			1		48										
RCB049	$B_9 E_{13}$	A	0	–	–			1		49										
RCB050	B_9	A	0	–	–			1		50										
RCB051	$B_9 E_{28}$	A	0	–	–			1		51										
RCB052	$B_9 T_4 V_4 E_{28}$	A	0	0	0			1		52										
RCB053	$B_9 T_4 V_4 E_{13}$	A	0	0	0			1		53										
RCB054	$B_9 T_4 V_4$	A	0	0	0			1		54										
RCB055	$B_9 W_{3A} T_4 V_4 E_{13}$	A	0	0	0			1		55										
RCB056	↓	D	-4	0	0			1		56										
RCB057	↓	A	0	-30	0			1		57										
RCB058	$B_9 W_{3A} T_4 V_4 F_1^{45} E_{13}$	A	0	-30	0			1	58											
RCB059	$B_9 W_{3A} T_4 V_4 F_1^{45} K_2 E_{18}$	A	0	-30	0			1	59											
RCB060	$B_9 W_{3A} T_4 V_4 K_2 E_{18}$	A	0	-30	0			1		60										

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

CLM	CN	CLN	CY	CSL	CA	CAB	CL	CD	L/D	MACH	ALPHA	IO

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

α or β SCHEDULES

A α = -6 TO +18 DEG; $\Delta\alpha$ = 2 DEG

D α = -6 TO +12 DEG; $\Delta\alpha$ = 2 DEG

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☐ PRETEST
☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_{er}	CONTROL DEFLECTION δ_r			NO. of RUNS	MACH NUMBERS .184	.259										
RCB061	$B_9 W_{3A} T_4 V_4 K_2 E_{18}$	A	0	-10	0			1		61										
RCB062	↓	A	0	0	0			1		62										
RCB063	↓	D	-4	0	0			1		63										
RCB064	$B_9 W_{3A} T_4 V_4$	D	-4	0	0			1		64										
RCB065	$B_9 W_{3A} K_2 E_{18}$	A	0	—	—			1		65										
RCB066	$B_9 K_2 E_{18}$	A	0	—	—			1		66										
RCB067	$B_9 K_2 E_{21}$	A	0	—	—			1		67										
RCB068	$B_9 T_4 V_4 K_2 E_{21}$	A	0	0	0			1		68										
RCB069	$B_9 T_4 V_4 K_2 E_{18}$	A	0	0	0			1		69										
RCB070	$B_9 W_{3A} T_4 V_4 K_2 E_{21}$	A	0	0	0			1		70										
RCB071	↓	D	-4	0	0			1		71										
RCB072	↓	A	0	-10	0			1		72										
RCB073	↓	A	0	10	0			1		73										
RCB074	$B_9 W_{3A} T_4 V_4 K_2 K_3 E_{21}$	A	0	0	0			1		.74										
RCB075	$B_9 W_{3A} T_4 V_4 F_1^{45} K_2 E_{21}$	A	0	0	0			1	75											
RCB076	$B_9 W_{3A} T_5 V_5 F_1^{45} K_2 E_{21}$	A	0	0	0			1	76											
RCB077	$B_9 W_{3A} T_5 V_5 K_2 E_{21}$	A	0	0	0			1		77										
RCB078	$B_9 T_5 V_5 K_2 E_{21}$	A	0	0	0			1		78										
RCB079	$B_9 T_5 V_5 K_2 E_{18}$	A	0	0	0			1		79										
RCB080	$B_9 T_5 V_5$	A	0	0	0			1		80										

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

CLM	CN	CLN	CY	CSL	CA	CAB	CL	CD	L/D	MACH	ALPHA	I.O

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

α or β SCHEDULES

Aα = -6 TO +18 DEG Δα = 2 DEG

Dα = -6 TO +12 DEG Δα = 2 DEG

TEST CV LSWT 580-0 DATA SET COLLATION SHEET

☐ PRETEST

☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δef	CONTROL DEFLECTION δr			NO. of RUNS	MACH NUMBERS .184	MACH NUMBERS .259										
RC8081	$B_9\ T_5\ V_5$	D	-4	0	0			1		81										
RC8082	$B_9\ W_{3A}\ T_5\ V_5\ K_2\ E_{18}$	A	0	0	0			1		82										
RC8083	↓	D	-4	0	0			1		83										
RC8084	↓	A	0	-10	0			1		84										
RC8085	$B_9\ W_{3A}\ T_5\ V_5\ F_1^{45} K_2\ E_{18}$	A	0	0	0			1	85											
RC8086	$B_9\ W_{3A}\ T_5\ V_5\ F_1^{45} E_{28}$	A	0	0	0			1	86											
RC8087	$B_9 W_{3A} T_5 V_5 E_{28}$	A	0	0	0			1		87										
RC8088	↓	D	-4	0	0			1		88										
RC8089	↓	A	0	-10	0			1		89										
RC8090	$B_9\ W_{3A}\ T_4\ V_5\ E_{28}$	A	0	0	0			1		90										
RC8091	↓	D	-4	0	0			1		91										
RC8092	$B_9\ W_{3A}\ T_5\ V_5$	A	0	0	0			1		92										
RC8093	↓	D	-4	0	0			1		93										
RC8094	↓	A	0	10	0			1		94										
RC8095	↓	A	0	-10	0			1		95										
RC8096	$B_9\ W_{3A}\ T_5\ V_5\ E_{13}$	A	0	-10	0			1		96										
RC8097	↓	D	-4	-10	0			1		97										
RC8098	↓	A	0	0	0			1		98										
RC8099	↓	D	-4	0	0			1		99										
RC8100	$B_9\ T_5\ V_5\ E_{13}$	A	0	0	0			1		100										

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

CLM	CN	CLN	CY	CSL	CA	CAB	CL	CD	L/D	MACH	ALPHA	IO

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

α or β SCHEDULES

$\Delta\alpha = -6$ TO $+18$ DEG; $\Delta\alpha = 2$ DEG

$D\alpha = -6$ TO $+12$ DEG; $\Delta\alpha = 2$ DEG

TEST CV LSWT 580-0 DAT. SET COLLATION SHEET

☐ PRETEST

☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_{er}	CONTROL DEFLECTION δ_r			NO. of RUNS	MACH NUMBERS .184	MACH NUMBERS .254										
RCB101	$B_9 T_5 V_5 E_{13}$	D	-4	0	0			1		101										

40

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

CLM	CN	CLN	CY	CSL	CA	CAB	CL	CD	L/D	MACH	ALPHA	10

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

α or β SCHEDULES

$A\alpha$ = -6 TO +18 DEG ; $\Delta\alpha$ = 2 DEG

$D\alpha$ = -6 TO +12 DEG ; $\Delta\alpha$ = 2 DEG

TEST CV LSWT 580-0 DATA SET COLLATION SHEET

☐ PRETEST

☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_{ec}	CONTROL DEFLECTION δ_{ae}	CONTROL DEFLECTION δ_r	NO. of RUNS	MACH NUMBERS .184	MACH NUMBERS .259
RCB102	$B_9 W_5 V_1 K_2$	D	0	0	0	0	1		102
RCB103	$B_9 W_5 V_1 K_2 E_{1B}$	D	0	0	0	0	1		103
RCB104	$B_9 W_5 V_1 C_{1A} K_2 E_{1B}$	D	0	0	0	0	1		104
RCB105	$B_9 W_5 V_1 C_{2A} K_2 E_{1B}$	D	0	0	0	0	1		105
RCB106	$B_9 W_5 V_1 C_{2B} K_2 E_{1B}$	D	0	0	0	0	1		106
RCB107	$B_7 W_5 V_1 C_{3A}$	D	0	10	0	0	1		107
RCB108	$B_7 W_5 V_1$	D	0	10	0	0	1		108

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CLM	CN	CLN	CY	CSL	CA	CAB	CL	CD	L/D	MACH	ALPHA	10

COEFFICIENTS: $\Delta\alpha = -6$ TO $+18$ DEG ; $\Delta\alpha = 2$ DEG → IDPVAR(1) | IDPVAR(2) | NDV

α or β SCHEDULES $\Delta\alpha = -6$ TO $+12$ DEG ; $\Delta\alpha = 2$ DEG

TEST CV LSWT 580-0 DAT.. SET DESCRIPTOR SHEET

DATA SET IDENTIFIER	DATA SET DESCRIPTOR (1 11 21 31 41)	Node Type	CURVE SLOPE RANGE (51 LOWER LIMIT)	(61 UPPER LIMIT)
RC8001	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,9,W,3,A,	1,1	-2.5	2.5
RC8002	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,9,W,3,A,T,4,V,4,	1,1	-2.5	3.0
RC8003	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,9,W,3,A,T,4,V,4,E,1,0,	1,1	-2.5	3.0
RC8004	↓	1,1	-2.5	3.0
RC8005	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,1,3,W,3,A,T,4,V,4,E,1,0,	1,1	-2.5	3.0
RC8006	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,9,W,3,A,T,4,V,4,E,1,1,	1,1	-2.5	3.0
RC8007	↓	1,1	-2.5	3.0
RC8008	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,9,W,3,A,T,4,V,4,E,1,2,	1,1	-2.5	2.5
RC8009	↓	1,1	-2.5	2.5
RC8010	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,9,W,3,A,T,4,V,4,E,9,	1,1	-2.5	3.0
RC8011	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,9,W,3,A,T,4,V,4,E,1,3,	1,1	-2.5	3.0
RC8012	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,1,0,W,3,A,T,4,V,4,E,1,4,	1,1	-2.5	2.5
RC8013	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,1,0,W,3,A,T,4,V,4,E,1,5,	1,1	-2.5	3.0
RC8014	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,1,0,W,3,A,T,4,V,4,E,2,4,	1,1	-2.5	2.5
RC8015	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,1,0,W,3,A,T,4,V,4,E,2,5,	1,1	-2.5	2.5
RC8016	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,1,0,W,3,A,T,4,V,4,E,1,6,	1,1	-2.5	2.5
RC8017	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,1,0,W,3,A,T,4,V,4,E,1,7,	1,1	-2.5	3.0
RC8018	↓	1,1	-2.5	2.5
RC8019	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,1,2,W,3,A,T,4,V,4,E,1,0,	1,1	-2.5	3.0
RC8020	C,V,L,S,WT, T,E,S,T, 5,8,0,-,0, B,9,W,3,A,T,4,V,4,E,2,6,	1,1	-2.5	3.0

1 SREF(1)	11 SREF(2)	21 LREF(1)	31 LREF(2)	41 BREF(1)	51 BREF(2)	61 XMRP(1)	71 XMRP(2)
316.23	SQ,IN	50.19	,IN	7.35	,IN	29.392	,IN

YMRP(1)	YMRP(2)	ZMRP(1)	ZMRP(2)	SCALE(1)	SCALE(2)	FILREF
0.0	,IN	0.0	,IN	0.01,75		CØN,TN7,0-AE-.12,(A)

TEST CV LSWT 580-0 DATA SET DESCRIPTOR SHEET

DATA SET IDENTIFIER	DATA SET DESCRIPTOR (1 / 11 / 21 / 31 / 41)	Node Type	CURVE SLOPE RANGE	
			51 LOWER LIMIT	61 UPPER LIMIT
RC8021	C,V,LS,MT, ,TEST, 580-0, B9|W3,A,T4|V4,E26	1,1	-2.5	2.5
RC8022	C,V,LS,MT, ,TEST, 580-0, B9|W3,A,T4|V4,E22	1,1	-2.5	2.5
RC8023	C,V,LS,MT, ,TEST, 580-0, B9|W3,A,T4|V4,K2,E2,1	1,1	-2.5	3.0
RC8024	↓	1,1	-2.5	2.5
RC8025	C,V,LS,MT, ,TEST, 580-0, B9|W3,A,T4|V4,K2,E1,9	1,1	-2.5	3.0
RC8026	↓	1,1	-2.5	3.0
RC8027	C,V,LS,MT, ,TEST, 580-0, B9|W3,A,T4|V4,K2,E20	1,1	-2.5	2.5
RC8028	↓	1,1	-2.5	3.0
RC8029	C,V,LS,MT, ,TEST, 580-0, B9|W3,A,T4|V4,K2,E1,8	1,1	-2.5	3.0
RC8030	↓	1,1	-2.5	2.5
RC8031	C,V,LS,MT, ,TEST, 580-0, B9|W3,A,T4|V4,K2	1,1	-2.5	3.0
RC8032	↓	1,1	-2.5	2.5
RC8033	C,V,LS,MT, ,TEST, 580-0, B9|W3,A,T4|V4,E27	1,1	-2.5	2.5
RC8034	↓	1,1	-2.5	2.5
RC8035	C,V,LS,MT, ,TEST, 580-0, B9|W3,A,T4|V4,E26	1,1	-2.5	3.0
RC8036	↓	1,1	-2.5	3.0
RC8037	↓	1,1	-2.5	3.0
RC8038	C,V,LS,MT, ,TEST, 580-0, B9|W3,A,T4|V4,F1-45,E26	1,1	-2.5	3.0
RC8039	C,V,LS,MT, ,TEST, 580-0, B9|W3,A,T4|V4,E28	1,1	-2.5	2.5
RC8040	↓	1,1	-2.5	2.5

1 SKEF(1)	11 SKEF(2)	21 LREF(1)	31 LREF(2)	41 BREF(1)	51 BREF(2)	61 XMRP(1)	71 XMRP(2)
316.23	SQ IN	50.19	IN	7.35	IN	29.392	IN

YMRP(1)	YMRP(2)	ZMRP(1)	ZMRP(2)	SCALE(1)	SCALE(2)	FILREF
0.0 IN	0.0 IN	0.0 IN		0.0175		CON TN70-AE-1.2 (A)

TEST CV LSWT 580-0 DATA SET DESCRIPTOR SHEET

DATA SET IDENTIFIER	DATA SET DESCRIPTOR (1 11 21 31 41)	Mode Type	CURVE SLOPE RANGE 51 LOWER LIMIT	61 UPPER LIMIT
RC8041	C,V,L,S,WT, TEST, 580-0, B9,W3,A,T4,V4,F1,-45,E28	1,1	-2.5	3.0
RC8042	C,V,L,S,WT, TEST, 580-0, B9,W3,A,T4,V4,E28	1,1	-2.5	3.0
RC8043	↓	1,1	-2.5	2.5
RC8044	↓	1,1	-2.5	2.5
RC8045	C,V,L,S,WT, TEST, 580-0, B9,W3,A,T4,V4	1,1	-2.5	3.0
RC8046	↓	1,1	-2.5	2.5
RC8047	C,V,L,S,WT, TEST, 580-0, B9,W3,A,E28	1,1	-2.5	2.5
RC8048	C,V,L,S,WT, TEST, 580-0, B9,W3,A,E13	1,1	-2.5	3.0
RC8049	C,V,L,S,WT, TEST, 580-0, B9,E13	1,1	-2.5	2.5
RC8050	C,V,L,S,WT, TEST, 580-0, B9	1,1	-2.5	2.5
RC8051	C,V,L,S,WT, TEST, 580-0, B9,E28	1,1	-2.5	2.5
RC8052	C,V,L,S,WT, TEST, 580-0, B9,T4,V4,E28	1,1	-2.5	2.5
RC8053	C,V,L,S,WT, TEST, 580-0, B9,T4,V4,E13	1,1	-2.5	2.5
RC8054	C,V,L,S,WT, TEST, 580-0, B9,T4,V4	1,1	-2.5	2.5
RC8055	C,V,L,S,WT, TEST, 580-0, B9,W3,A,T4,V4,E13	1,1	-2.5	3.0
RC8056	↓	1,1	-2.5	3.0
RC8057	↓	1,1	-2.5	3.0
RC8058	C,V,L,S,WT, TEST, 580-0, B9,W3,A,T4,V4,F1,-45,E13	1,1	-2.5	3.0
RC8059	C,V,L,S,WT, TEST, 580-0, B9,W3,A,T4,V4,F1,-45,K2E18	1,1	-2.5	3.0
RC8060	C,V,L,S,WT, TEST, 580-0, B9,W3,A,T4,V4,K2E18	1,1	-2.5	3.0

1 SREF(1)	11 SREF(2)	21 LREF(1)	31 LREF(2)	41 BREF(1)	51 BREF(2)	61 XMRP(1)	71 XMRP(2)
316.23	SQ,IN	50.19	IN	7.35	IN	29.392	IN

YMRP(1)	YMRP(2)	ZMRP(1)	ZMRP(2)	SCALE(1)	SCALE(2)	FILREF
0.0	IN	0.0	IN	0.0175		CØN TN70-AE-12 (A)

TEST CV LSWT 580-0 DAT SET DESCRIPTOR SHEET

DATA SET IDENTIFIER	DATA SET DESCRIPTOR (1 / 11 / 21 / 31 / 41)	Node Type	CURVE SLOPE RANGE (51) LOWER LIMIT	(61) UPPER LIMIT
RC8061	CVLSWT TEST 5801-0 B9W3AT4V4K2E1B	1,1	-2.5	3.0
RC8062	↓	1,1	-2.5	2.5
RC8063	↓	1,1	-2.5	2.5
RC8064	CVLSWT TEST 5801-0 B9W3AT4V4	1,1	-2.5	2.5
RC8065	CVLSWT TEST 5801-0 B9W3AK2E1B	1,1	-2.5	2.5
RC8066	CVLSWT TEST 5801-0 B9K2E1B	1,1	-2.5	2.5
RC8067	CVLSWT TEST 5801-0 B9K2E21	1,1	-2.5	2.5
RC8068	CVLSWT TEST 5801-0 B9T4V4K2E21	1,1	-2.5	2.5
RC8069	CVLSWT TEST 5801-0 B9T4V4K2E1B	1,1	-2.5	2.5
RC8070	CVLSWT TEST 5801-0 B9W3AT4V4K2E21	1,1	-2.5	2.5
RC8071	↓	1,1	-2.5	2.5
RC8072	↓	1,1	-2.5	3.0
RC8073	↓	1,1	-2.5	2.5
RC8074	CVLSWT TEST 5801-0 B9W3AT4V4K2K3E21	1,1	-2.5	3.0
RC8075	CVLSWT TEST 5801-0 B9W3AT4V4F1-145K2E21	1,1	-2.5	3.0
RC8076	CVLSWT TEST 5801-0 B9W3AT5V5F1-145K2E21	1,1	-2.5	3.0
RC8077	CVLSWT TEST 5801-0 B9W3AT5V5K2E21	1,1	-2.5	2.5
RC8078	CVLSWT TEST 5801-0 B9T5V5K2E21	1,1	-2.5	2.5
RC8079	CVLSWT TEST 5801-0 B9T5V5K2E1B	1,1	-2.5	2.5
RC8080	CVLSWT TEST 5801-0 B9T5V5	1,1	-2.5	2.5

1 SREF(1)	11 SREF(2)	21 LREF(1)	31 LREF(2)	41 BREF(1)	51 BREF(2)	61 XMRP(1)	71 XMRP(2)
316.23	50.1N	50.19	1N	17.35	1N	29.392	1N

YMRP(1)	YMRP(2)	ZMRP(1)	ZMRP(2)	SCALE(1)	SCALE(2)	FILREF
0.0	1N	0.0	1N	0.0175		CON TN70-AE-12 (A)

TEST CV LSWT 580-0 DAT SET DESCRIPTOR SHEET

DATA SET IDENTIFIER	DATA SET DESCRIPTOR (1 / 11 / 21 / 31 / 41)	Node type	CURVE SLOPE RANGE (51) LOWER LIMIT	(61) UPPER LIMIT
RC8081	C,V,L,S,WT, TEST, 580-0, B9,T5,V5	1,1	-2.5	2.5
RC8082	C,V,L,S,WT, TEST, 580-0, B9,W3,A,T5,V5,K2,E1.8	1,1	-2.5	2.5
RC8083	↓	1,1	-2.5	2.5
RC8084	↓	1,1	-2.5	3.0
RC8085	C,V,L,S,WT, TEST, 580-0, B9,W3,A,T5,V5,F1-45,K2,E1.8	1,1	-2.5	3.0
RC8086	C,V,L,S,WT, TEST, 580-0, B9,W3,A,T5,V5,F1-45,E2.8	1,1	-2.5	3.0
RC8087	C,V,L,S,WT, TEST, 580-0, B9,W3,A,T5,V5,E2.8	1,1	-2.5	2.5
RC8088	↓	1,1	-2.5	2.5
RC8089	↓	1,1	-2.5	2.5
RC8090	C,V,L,S,WT, TEST, 580-0, B9,W3,A,T4,V5,E2.8	1,1	-2.5	2.5
RC8091	↓	1,1	-2.5	2.5
RC8092	C,V,L,S,WT, TEST, 580-0, B9,W3,A,T5,V5	1,1	-2.5	2.5
RC8093	↓	1,1	-2.5	2.5
RC8094	↓	1,1	-2.5	2.5
RC8095	↓	1,1	-2.5	2.5
RC8096	C,V,L,S,WT, TEST, 580-0, B9,W3,A,T5,V5,E1.3	1,1	-2.5	3.0
RC8097	↓	1,1	-2.5	3.0
RC8098	↓	1,1	-2.5	3.0
RC8099	↓	1,1	-2.5	3.0
RC8100	C,V,L,S,WT, TEST, 580-0, B9,T5,V5,E1.3	1,1	-2.5	2.5

1 SREF(1)	11 SREF(2)	21 LREF(1)	31 LREF(2)	41 BREF(1)	51 BREF(2)	61 XMRP(1)	71 XMRP(2)
31.6.23	SQ IN	50.19	IN	7.35	IN	29.392	IN

YMRP(1)	YMRP(2)	ZMRP(1)	ZMRP(2)	SCALE(1)	SCALE(2)	FILREF
0.0	IN	0.0	IN	0.0175		CON TN70-AE-12 (A)

TEST CV LSWT 580-0 DAT SET DESCRIPTOR SHEET

DATA SET IDENTIFIER	DATA SET DESCRIPTOR (1 / 11 / 21 / 31 / 41)	Mode Type	CURVE SLOPE RANGE (51) LOWER LIMIT	(61) UPPER LIMIT
RC8101	CVLSWT TEST 580-0 B9T5V5E13	1,1	-2.5	2.5

1 SREF(1)	11 SREF(2)	21 LREF(1)	31 LREF(2)	41 BREF(1)	51 BREF(2)	61 XMRP(1)	71 XMRP(2)
316.23	SQ IN	50.19	IN	7.35	IN	29.392	IN

YMRP(1)	YMRP(2)	ZMRP(1)	ZMRP(2)	SCALE(1)	SCALE(2)	FILREF
0.0	IN	0.0	IN	0.0175		CØNTNTO-RE-12 (A)

TEST CV LSWT 580-0 DAT SET DESCRIPTOR SHEET

DATA SET IDENTIFIER	DATA SET DESCRIPTOR (1 / 11 / 21 / 31 / 41)	Node Type	CURVE SLOPE RANGE (51) LOWER LIMIT	(61) UPPER LIMIT
RC8102	C,V,LS,WT, TEST, 580-0, B9|W5,V1,K12	1,1	-2.5	2.5
RC8103	C,V,LS,WT, TEST, 580-0, B9|W5,V1,K12,E1,8	1,1	-2.5	2.5
RC8104	C,V,LS,WT, TEST, 580-0, B9|W5,V1,K12,E1,8,C1,A	1,1	-2.5	2.5
RC8105	C,V,LS,WT, TEST, 580-0, B9|W5,V1,K12,E1,8,C2,A	1,1	-2.5	2.5
RC8106	C,V,LS,WT, TEST, 580-0, B9|W5,V1,K12,E18,C2,B	1,1	-2.5	2.5
RC8107	C,V,LS,WT, TEST, 580-0, B7|W5,V1,C3,A	1,1	-2.5	2.5
RC8108	C,V,LS,WT, TEST, 580-0, B7|W5,V1	1,1	-2.5	2.5

1 SREF(1)	11 SREF(2)	21 LREF(1)	31 LREF(2)	41 BREF(1)	51 BREF(2)	61 XMRP(1)	71 XMRP(2)
316.23	SQ IN	50.19	IN	7.35	IN	33.909	IN

YMRP(1)	YMRP(2)	ZMRP(1)	ZMRP(2)	SCALE(1)	SCALE(2)	FILREF
0.0	IN	0.0	IN	0.0175		CON TN 70-AE-12 (A)

DATA SET PARAMETER NAME SHEET

TEST CV LSWT 580-0

DATA SET IDENTIFIER	PARAMETER NAMES (Format 10A6) 1 7 13 19 25 31 37 43 49 55 61	NPRA
RCB001	BETA, FLAPS, SPOILR	3
RCB002	BETA, ELEVTR, RUDDER, FLAPS, SPOILR	5
RCB003	BETA, ELEVTR, RUDDER, FLAPS, SPOILR, ENGINE	6
RCB004		
RCB005		
RCB006		
RCB007		
RCB008		
RCB009		
RCB010		
RCB011		
RCB012		
RCB013		
RCB014		
RCB015		
RCB016		
RCB017		
RCB018		
RCB019		
RCB020		

DATA SET PARAMETER NAME SHEET

TEST CV LSWT 580-0

DATA SET IDENTIFIER	PARAMETER NAMES (Format 10A6) 1 7 13 19 25 31 37 43 49 55 61	NPRA
RCB021	BETA, ELEVTR,RUDDER,FLAPS,SPOILR,ENGINE,	6
RCB022		
RCB023		
RCB024		
RCB025		
RCB026		
RCB027		
RCB028		
RCB029		
RCB030		
RCB031		
RCB032		
RCB033	ENGINE,	
RCB034		
RCB035		
RCB036		
RCB037		
RCB038		
RCB039		
RCB040		

DATA SET PARAMETER NAME SHEET

TEST CV .LSWT 580-0

DATA SET IDENTIFIER	PARAMETER NAMES (Format 10A6) 1 7 13 19 25 31 37 43 49 55 61	NPRA
RC8041	BETA ELEVTR RUDDER FLAPS SPOIL RENGINE	6
RC8042		
RC8043		
RC8044		
RC8045	BETA ELEVTR RUDDER FLAPS SPOIL R	5
RC8046		
RC8047	BETA FLAPS SPOIL RENGINE	4
RC8048		
RC8049	BETA ENGINE	2
RC8050	BETA	1
RC8051	BETA ENGINE	2
RC8052	BETA ELEVTR RUDDER ENGINE	4
RC8053		
RC8054	BETA ELEVTR RUDDER	3
RC8055	BETA ELEVTR RUDDER FLAPS SPOIL RENGINE	6
RC8056		
RC8057		
RC8058		
RC8059		
RC8060		

DATA SET PARAMETER NAME SHEET

TEST CV LSWT 580-0

DATA SET IDENTIFIER	PARAMETER NAMES (Format 10A6) 1 7 13 19 25 31 37 43 49 55 61	NPRM
RC8061	BETA ELEVTR RUDDER FLAPS SPOILR ENGINE	6
RC8062		
RC8063		
RC8064	BETA ELEVTR RUDDER FLAPS SPOILR	5
RC8065	BETA FLAPS SPOILR ENGINE	4
RC8066	BETA ENGINE	2
RC8067		
RC8068	BETA ELEVTR RUDDER ENGINE	4
RC8069		
RC8070	BETA ELEVTR RUDDER FLAPS SPOILR ENGINE	6
RC8071		
RC8072		
RC8073		
RC8074		
RC8075		
RC8076		
RC8077		
RC8078	BETA ELEVTR RUDDER ENGINE	4
RC8079		
RC8080	BETA ELEVTR RUDDER	3

DATA SET PARAMETER NAME SHEET

TEST CV LSWT 580-0

DATA SET IDENTIFIER	PARAMETER NAMES (Format 10A6) 1 7 13 19 25 31 37 43 49 55 61	INPRA
RC8081	BETA, ELEVTR RUDDER	3
RC8082	BETA, ELEVTR RUDDER FLAPS, SPOIL ENGINE	6
RC8083		
RC8084		
RC8085		
RC8086		
RC8087		
RC8088		
RC8089		
RC8090		
RC8091		
RC8092	BETA, ELEVTR RUDDER FLAPS, SPOILR	5
RC8093		
RC8094		
RC8095		
RC8096	BETA, ELEVTR RUDDER FLAPS, SPOILR ENGINE	6
RC8097		
RC8098		
RC8099		
RC8100	BETA, ELEVTR RUDDER ENGINE	4

DATA SET PARAMETER NAME SHEET

TEST CV LSWT 580-0

DATA SET IDENTIFIER	PARAMETER NAMES (Format 10A6) 1 7 13 19 25 31 37 43 49 55 61	INCR.
RC8101	BETA ELEVTRRUDDERENGINE	.4
RC8102	BETA ELEVØNAILRØNRUDDER	.4
RC8103	BETA ELEVØNAILRØNRUDDERENGINE	.5
RC8104	BETA ELEVØNAILRØNRUDDERENGINECANARD	.6
RC8105	↓ ↓ ↓ ↓ ↓ ↓	↓
RC8106	↓ ↓ ↓ ↓ ↓ ↓	↓
RC8107	BETA ELEVØNAILRØNRUDDERCANARD	.5
RC8108	BETA ELEVØNAILRØNRUDDER	.4

DATA SET PARAMETER VALUE SHEET

TEST CV LSWT 580-0

DATA SET IDENTIFIER	PARAMETER VALUE (Format 10F8.3) 1	9	17	25	33	41	49	51	65	73
RC8001	0.0	0.0	0.0							
RC8002	0.0	0.0	0.0	0.0	0.0					
RC8003	0.0	0.0	0.0	0.0	0.0	10.0				
RC8004	-4.0	0.0	0.0	0.0	0.0	10.0				
RC8005	0.0	0.0	0.0	0.0	0.0	10.0				
RC8006	0.0	0.0	0.0	0.0	0.0	11.0				
RC8007	-4.0	0.0	0.0	0.0	0.0	11.0				
RC8008	0.0	0.0	0.0	0.0	0.0	12.0				
RC8009	-4.0	0.0	0.0	0.0	0.0	12.0				
RC8010	0.0	0.0	0.0	0.0	0.0	9.0				
RC8011	0.0	0.0	0.0	0.0	0.0	13.0				
RC8012	0.0	0.0	0.0	0.0	0.0	14.0				
RC8013	0.0	0.0	0.0	0.0	0.0	15.0				
RC8014	0.0	0.0	0.0	0.0	0.0	24.0				
RC8015	0.0	0.0	0.0	0.0	0.0	25.0				
RC8016	0.0	0.0	0.0	0.0	0.0	16.0				
RC8017	0.0	0.0	0.0	0.0	0.0	17.0				
RC8018	-4.0	0.0	0.0	0.0	0.0	17.0				
RC8019	0.0	0.0	0.0	0.0	0.0	10.0				
RC8020	0.0	0.0	0.0	0.0	0.0	26.0				

DATA SET PARAMETER VALUE SHEET

TEST CV LSWT 580-0

DATA SET IDENTIFIER	PARAMETER VALUE (Format 10F8.3) 1	9	17	25	33	41	49	51	65	73
RC8021	-4.0	0.0	0.0	0.0	0.0	26.0				
RC8022	0.0	0.0	0.0	0.0	0.0	22.0				
RC8023	0.0	0.0	0.0	0.0	0.0	21.0				
RC8024	-4.0	0.0	0.0	0.0	0.0	21.0				
RC8025	0.0	0.0	0.0	0.0	0.0	19.0				
RC8026	-4.0	0.0	0.0	0.0	0.0	19.0				
RC8027	0.0	0.0	0.0	0.0	0.0	20.0				
RC8028	-4.0	0.0	0.0	0.0	0.0	20.0				
RC8029	0.0	0.0	0.0	0.0	0.0	18.0				
RC8030	-4.0	0.0	0.0	0.0	0.0	18.0				
RC8031	0.0	0.0	0.0	0.0	0.0					
RC8032	-4.0	0.0	0.0	0.0	0.0					
RC8033	0.0	0.0	0.0	0.0	0.0	27.0				
RC8034	-4.0	0.0	0.0	0.0	0.0	27.0				
RC8035	0.0	-10.0	0.0	0.0	0.0	26.0				
RC8036	0.0	-20.0	0.0	0.0	0.0	26.0				
RC8037	0.0	-30.0	0.0	0.0	0.0	24.0				
RC8038	0.0	-30.0	0.0	45.0	0.0	26.0				
RC8039	0.0	0.0	0.0	0.0	0.0	28.0				
RC8040	-4.0	0.0	0.0	0.0	0.0	28.0				

DATA SET PARAMETER VALUE SHEET

TEST CV LSWT 580-0

DATA SET IDENTIFIER	PARAMETER VALUE (Format 10F8.3) 1	9	17	25	33	41	49	51	65	73
RC8041	0.0	-30.0	0.0	45.0	0.0	28.0				
RC8042	0.0	-30.0	0.0	0.0	0.0	28.0				
RC8043	0.0	10.0	0.0	0.0	0.0	28.0				
RC8044	-4.0	10.0	0.0	0.0	0.0	28.0				
RC8045	0.0	-30.0	0.0	0.0	0.0					
RC8046	0.0	-10.0	0.0	0.0	0.0					
RC8047	0.0	0.0	0.0	28.0						
RC8048	0.0	0.0	0.0	13.0						
RC8049	0.0	13.0								
RC8050	0.0									
RC8051	0.0	28.0								
RC8052	0.0	0.0	0.0	28.0						
RC8053	0.0	0.0	0.0	13.0						
RC8054	0.0	0.0	0.0							
RC8055	0.0	0.0	0.0	0.0	0.0	13.0				
RC8056	-4.0	0.0	0.0	0.0	0.0	13.0				
RC8057	0.0	-30.0	0.0	0.0	0.0	13.0				
RC8058	0.0	-30.0	0.0	45.0	0.0	13.0				
RC8059	0.0	-30.0	0.0	45.0	0.0	18.0				
RC8060	0.0	-30.0	0.0	0.0	0.0	18.0				

DATA SET PARAMETER VALUE SHEET

TEST CV LSWT 580-0

DATA SET IDENTIFIER	PARAMETER VALUE (Format 10F8.3) 1	9	17	25	33	41	49	51	65	73
RC8061	0.0	-10.0	0.0	0.0	0.0	18.0				
RC8062	0.0	0.0	0.0	0.0	0.0	18.0				
RC8063	-4.0	0.0	0.0	0.0	0.0	18.0				
RC8064	-4.0	0.0	0.0	0.0	0.0					
RC8065	0.0	0.0	0.0	18.0						
RC8066	0.0	18.0								
RC8067	0.0	21.0								
RC8068	0.0	0.0	0.0	21.0						
RC8069	0.0	0.0	0.0	18.0						
RC8070	0.0	0.0	0.0	0.0	0.0	21.0				
RC8071	-4.0	0.0	0.0	0.0	0.0	21.0				
RC8072	0.0	-10.0	0.0	0.0	0.0	21.0				
RC8073	0.0	10.0	0.0	0.0	0.0	21.0				
RC8074	0.0	0.0	0.0	0.0	0.0	21.0				
RC8075	0.0	0.0	0.0	45.0	0.0	21.0				
RC8076	0.0	0.0	0.0	45.0	0.0	21.0				
RC8077	0.0	0.0	0.0	0.0	0.0	21.0				
RC8078	0.0	0.0	0.0	21.0						
RC8079	0.0	0.0	0.0	18.0						
RC8080	0.0	0.0	0.0							

DATA SET PARAMETER VALUE SHEET

TEST CV LSWT 580-0

DATA SET IDENTIFIER	PARAMETER VALUE (Format 10F8.3)									
	1	9	17	25	33	41	49	51	65	73
RCB081	-4.0	0.0	0.0							
RCB082	0.0	0.0	0.0	0.0	0.0	18.0				
RCB083	-4.0	0.0	0.0	0.0	0.0	18.0				
RCB084	0.0	-10.0	0.0	0.0	0.0	18.0				
RCB085	0.0	0.0	0.0	45.0	0.0	18.0				
RCB086	0.0	0.0	0.0	45.0	0.0	28.0				
RCB087	0.0	0.0	0.0	0.0	0.0	28.0				
RCB088	-4.0	0.0	0.0	0.0	0.0	28.0				
RCB089	0.0	-10.0	0.0	0.0	0.0	28.0				
RCB090	0.0	0.0	0.0	0.0	0.0	26.0				
RCB091	-4.0	0.0	0.0	0.0	0.0	26.0				
RCB092	0.0	0.0	0.0	0.0	0.0					
RCB093	-4.0	0.0	0.0	0.0	0.0					
RCB094	0.0	10.0	0.0	0.0	0.0					
RCB095	0.0	-10.0	0.0	0.0	0.0					
RCB096	0.0	-10.0	0.0	0.0	0.0	13.0				
RCB097	-4.0	-10.0	0.0	0.0	0.0	13.0				
RCB098	0.0	0.0	0.0	0.0	0.0	13.0				
RCB099	-4.0	0.0	0.0	0.0	0.0	13.0				
RCB100	0.0	0.0	0.0	13.0						

DATA SET PARAMETER VALUE SHEET

TEST CV LSWT 580-0

60

DATA SET IDENTIFIER	PARAMETER VALUE (Format 10F8.3) 1	9	17	25	33	41	49	51	65	73
RC8101	-4.0	0.0	0.0	13.0						
RC8102	0.0	0.0	0.0	0.0						
RC8103	0.0	0.0	0.0	0.0	18.0					
RC8104	0.0	0.0	0.0	0.0	18.0	-1.20				
RC8105	0.0	0.0	0.0	0.0	18.0	-2.0				
RC8106	0.0	0.0	0.0	0.0	18.0	2.0				
RC8107	0.0	1.0.0	0.0	0.0	-3.0					
RC8108	0.0	1.0.0	0.0	0.0						

Notes:

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

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

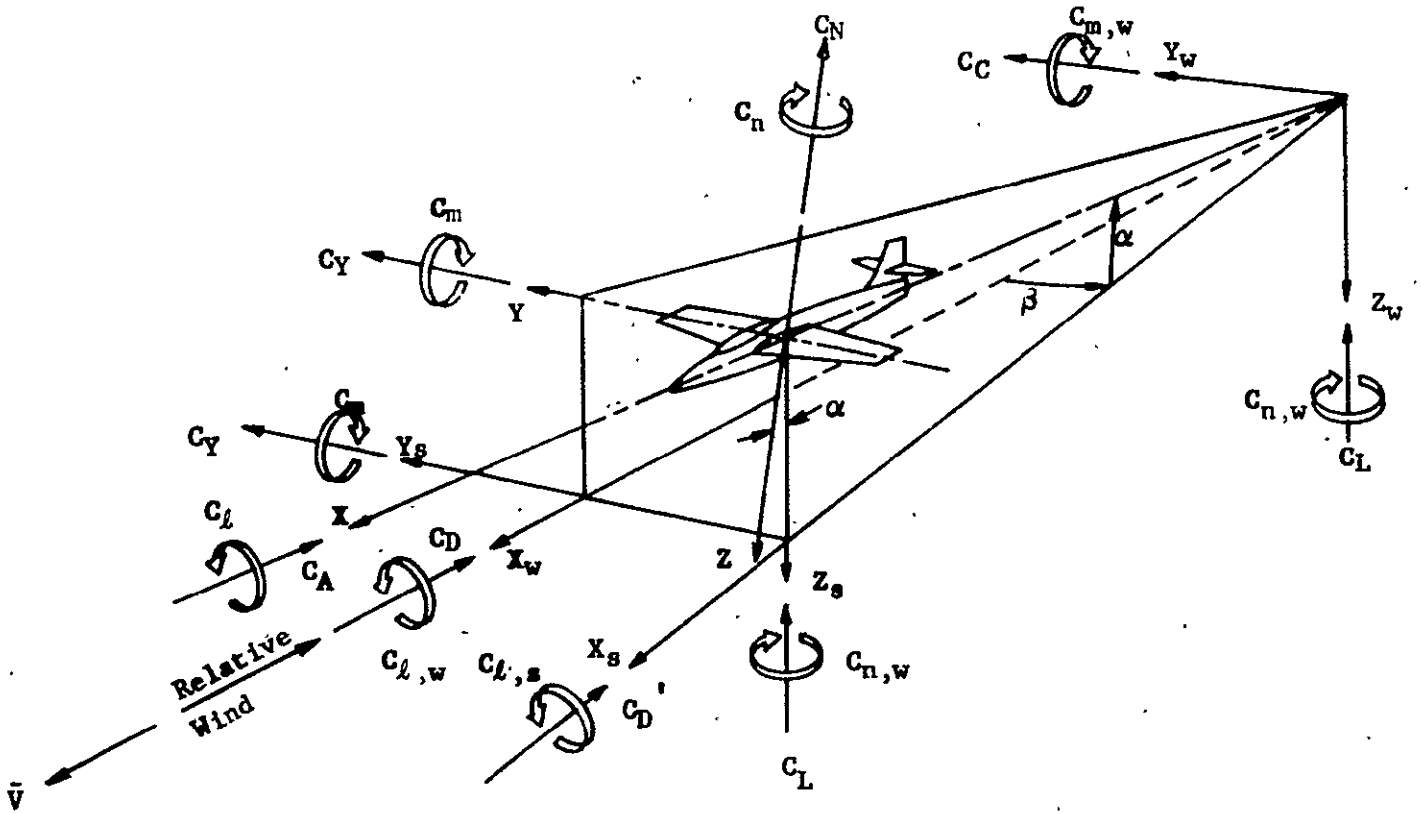


Figure 1. Axis systems, showing direction and sense of force and moment coefficients, angle of attack, and sideslip angle

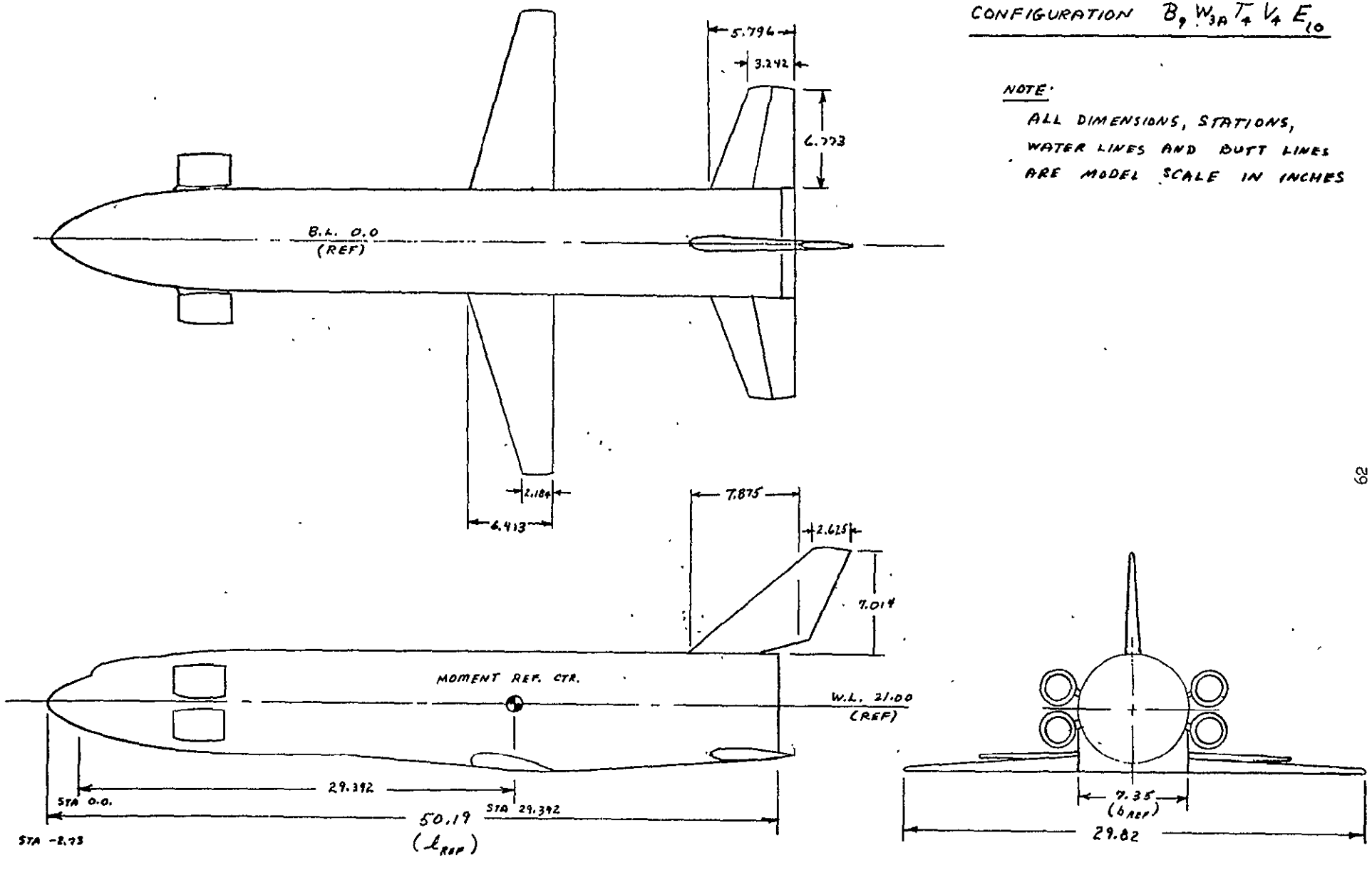
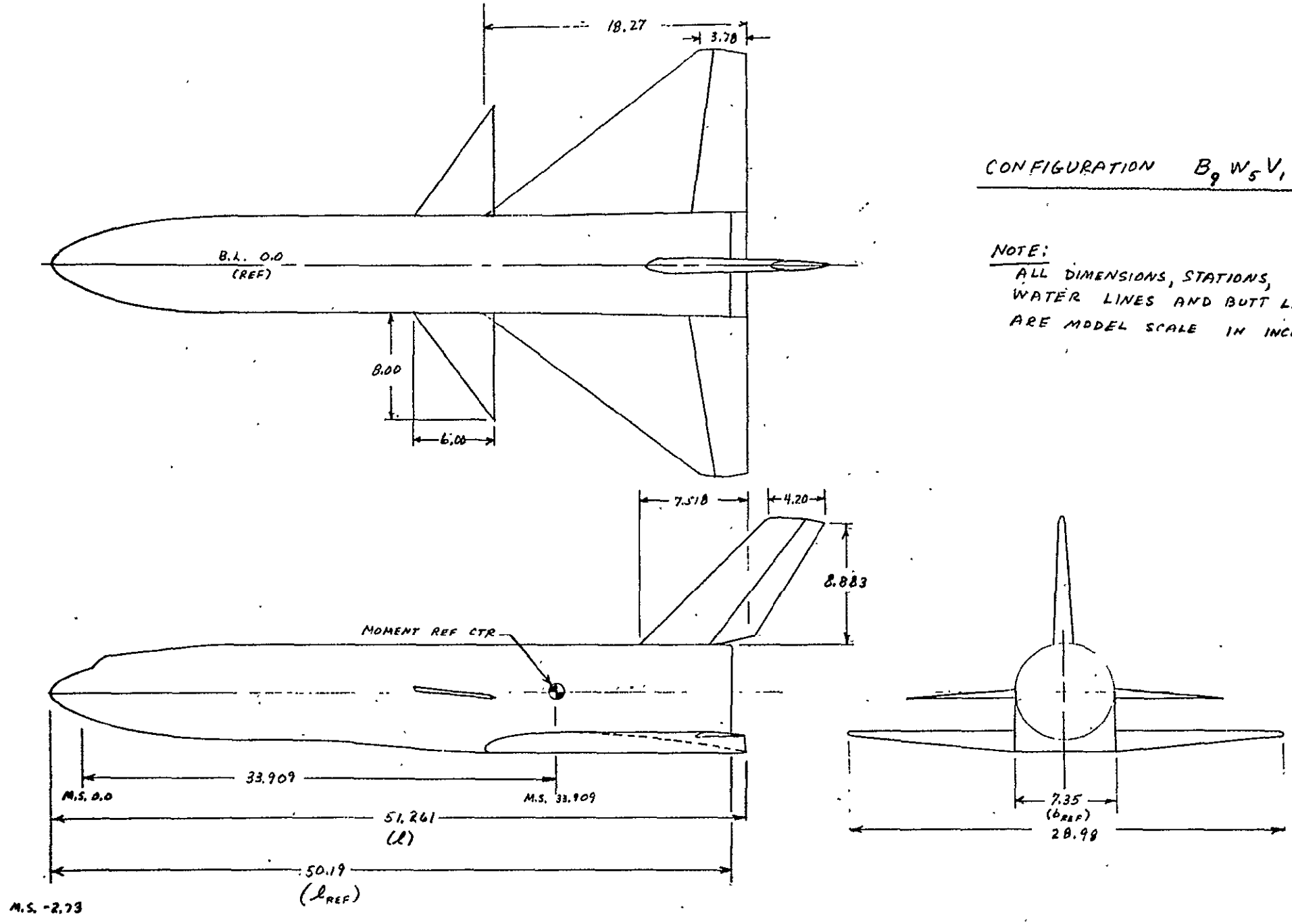


Figure 2. GD/Convair Straight Wing Space Shuttle Booster.



CONFIGURATION $B_9 W_5 V_1 C_{2A}$

NOTE:
ALL DIMENSIONS, STATIONS, WATER LINES AND BUTT LINES ARE MODEL SCALE IN INCHES.

Figure 3. GD/Convair Delta Wing Space Shuttle Booster.

NOTES:

1. ALL DIMENSIONS, MODEL STATIONS AND BUTT LINES IN INCHES
2. HINGE LINE AT 50 PER CENT CHORD

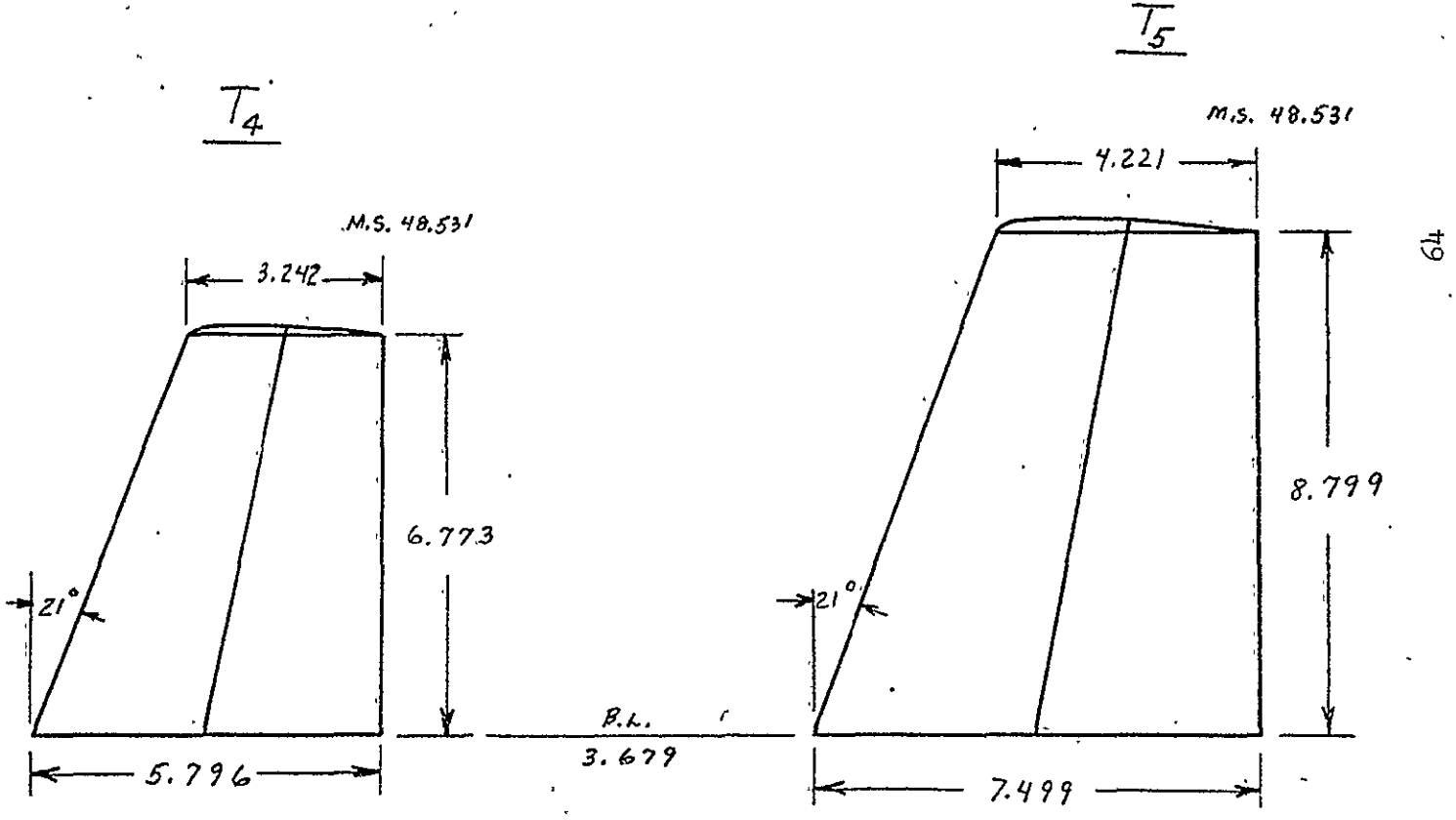


Figure 4. Horizontal Tail Geometry

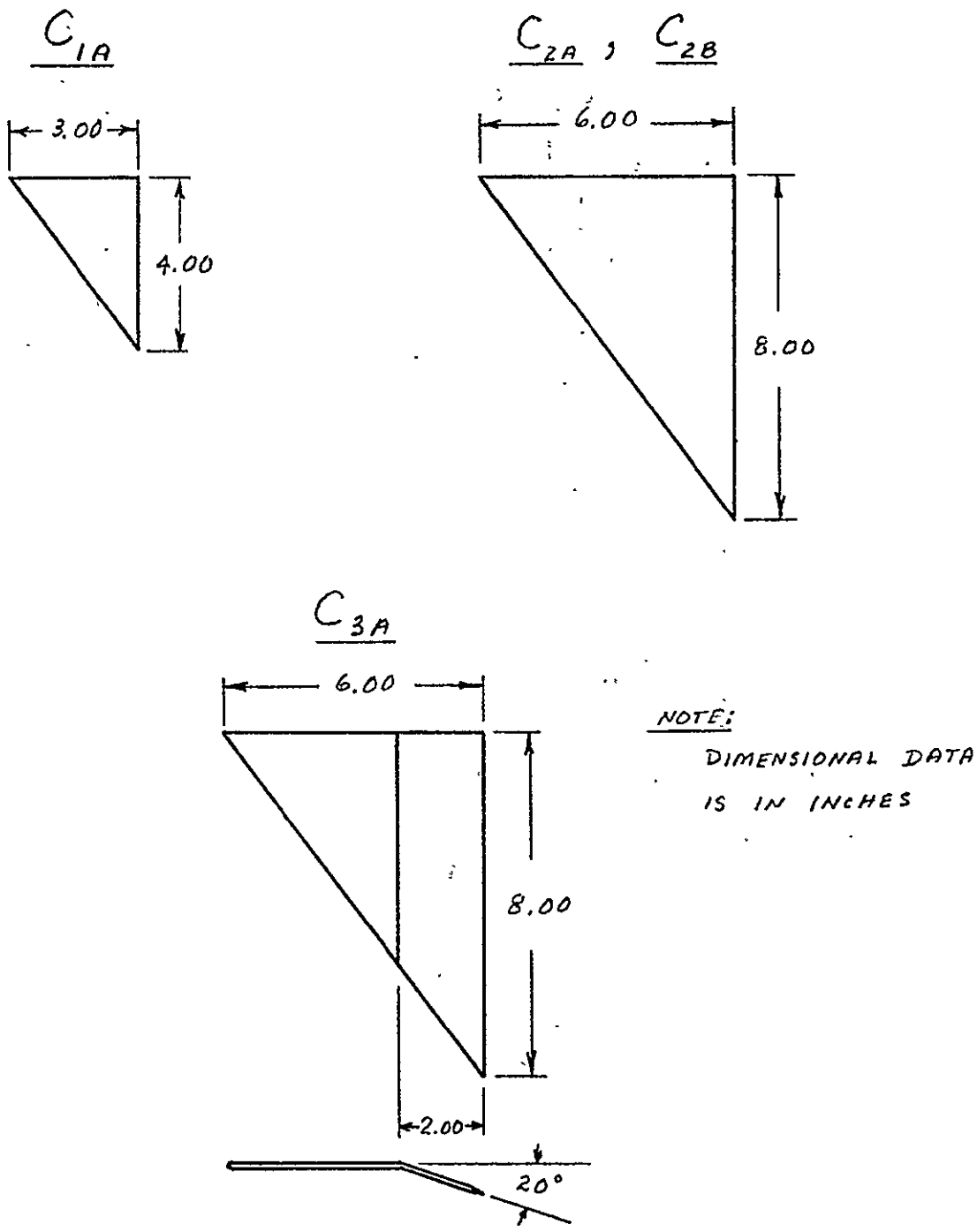


Figure 6. Canard Geometry.

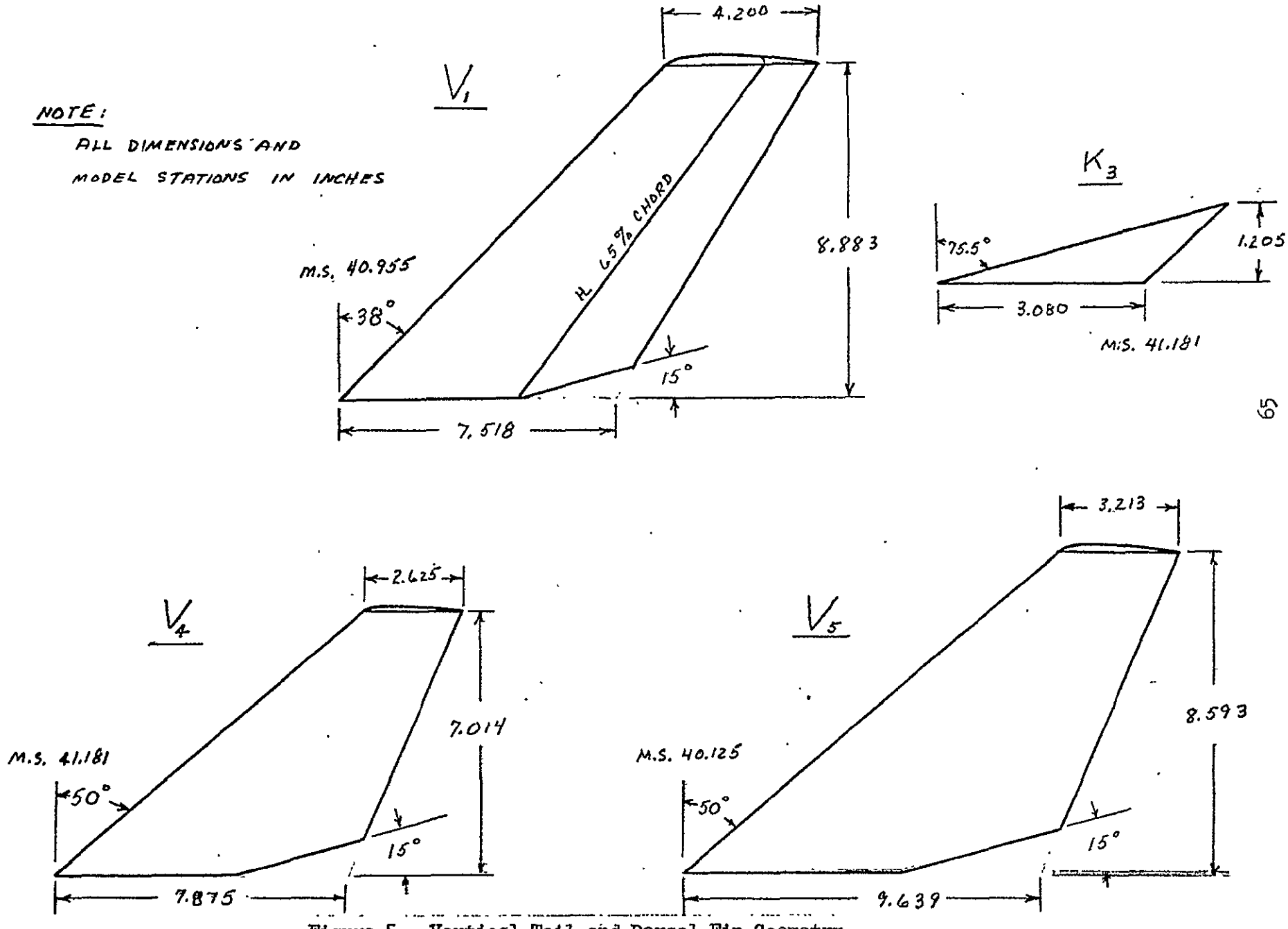
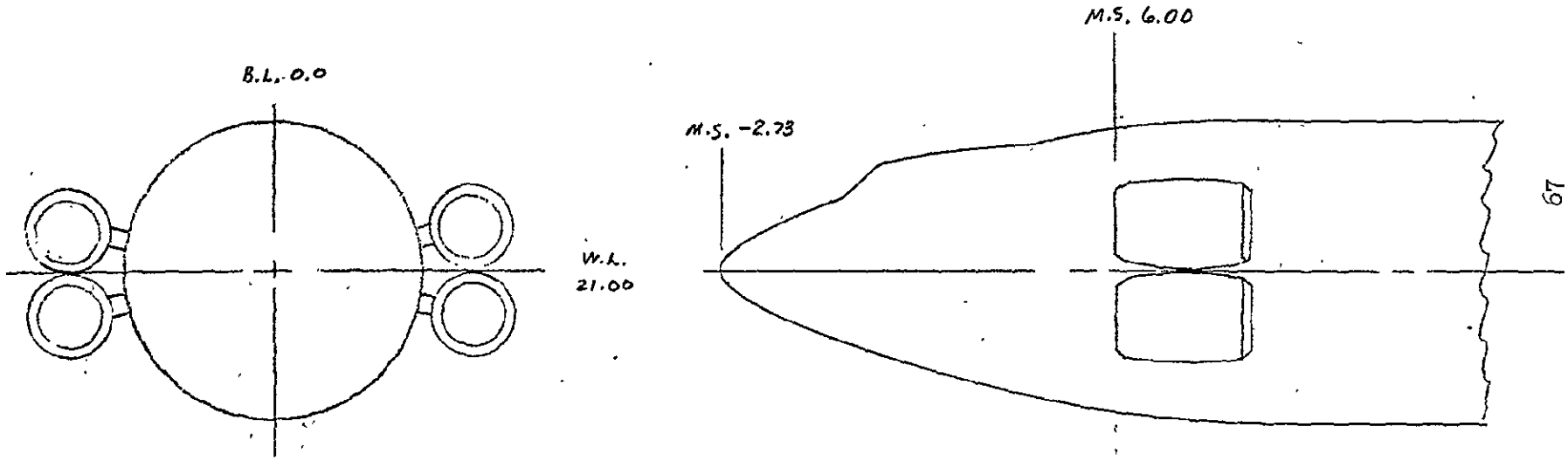


Figure 5. Vertical Tail and Dorsal Fin Geometry.

NOTE:

1. ALL MODEL STATIONS IN INCHES.
2. RADIAL POSITIONING OF NACELLE CONFIGURATIONS E_{13} AN E_{27} ARE THE SAME, HOWEVER THE INLET L.E. FOR E_{13} IS AT M.S. 15.33 AND FOR E_{27} AT M.S. 27.18



E_{10}

Figure 7. Typical Hi-Bipass Ratio Cruise Engine Nacelle Installation.

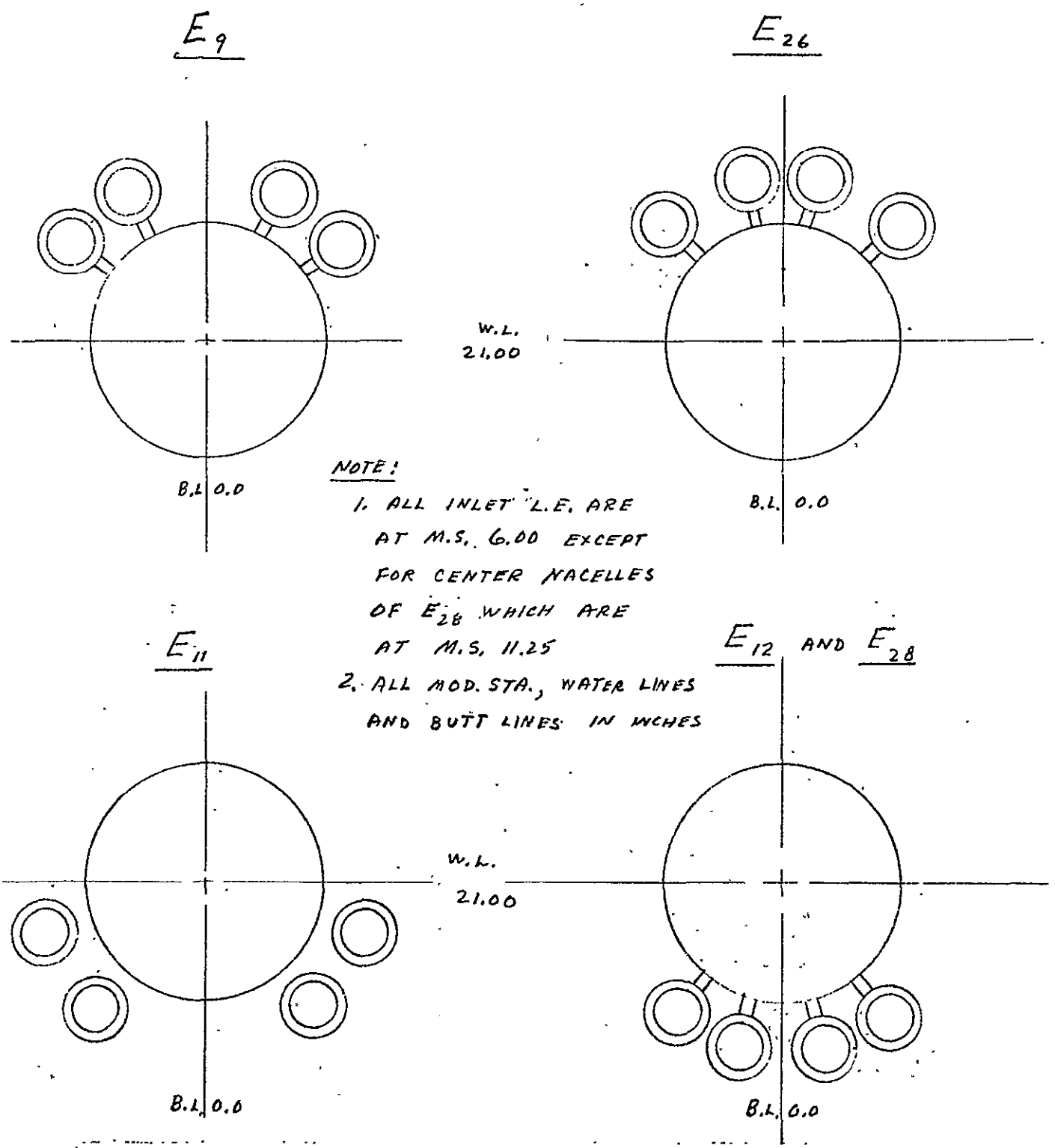
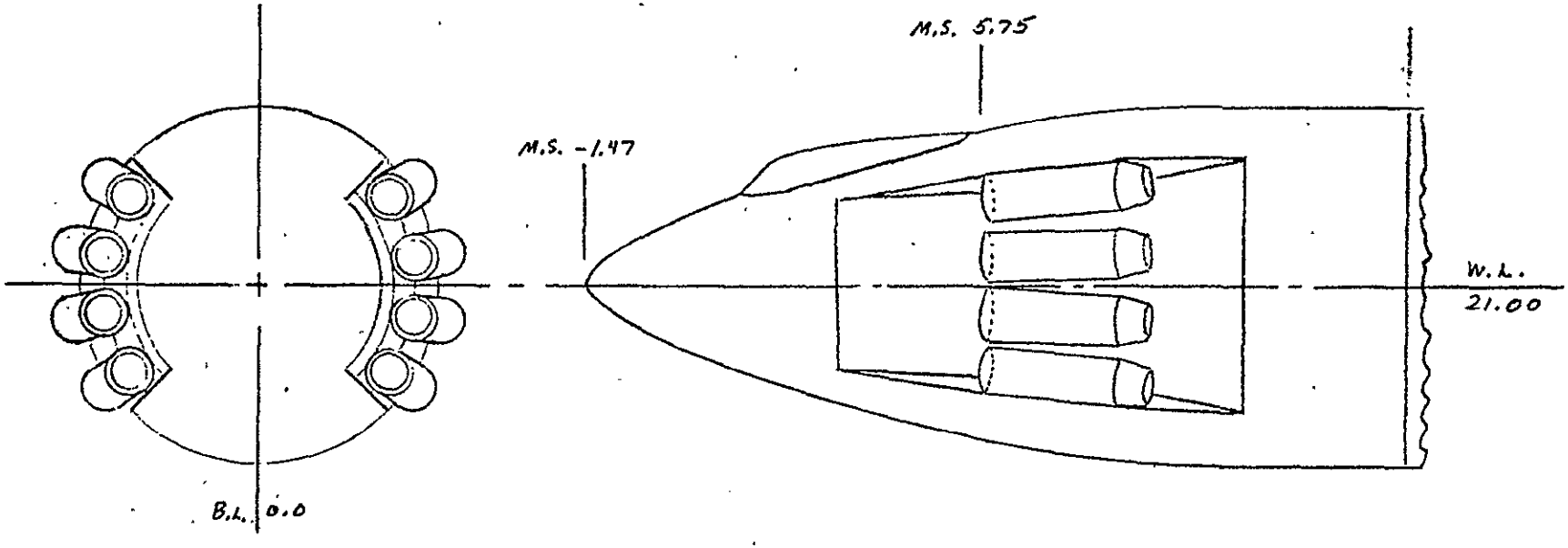


Figure 8. Hi-Bipass Ratio Cruise Engine Nacelle Radial Positions.

NOTE:

1. MODEL STATIONS, WATER LINES AND BUTT LINES IN INCHES.
2. E_{24} SAME AS E_{15} EXCEPT THAT INLET COVER FAIRINGS ARE SIMULATED.
3. E_{25} SAME AS E_{15} EXCEPT FILLETS ARE USED BETWEEN NACELLES



E_{15}, E_{24} AND E_{25}

Figure 9. Typical Semi-Submerged Low-Bipass Ratio Cruise Engine Nacelle Installation.

NOTE:

1. MODEL STATIONS, WATER LINES AND BUTT LINES IN INCHES
2. INLET LEADING EDGE AT M.S. 5.75

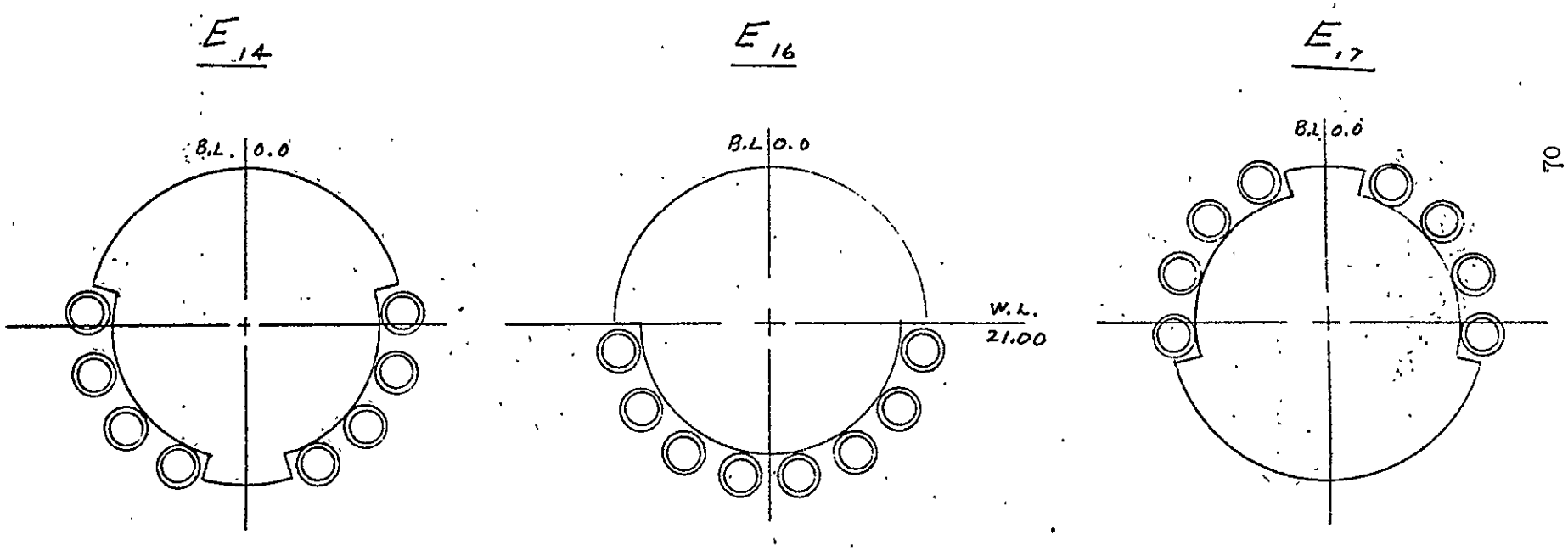


Figure 10. Semi-Submerged Low-Bipass Ratio Cruise Engine Nacelle Radial Position.

NOTE:

MODEL STATIONS, WATER LINES AND BUTT LINES IN INCHES

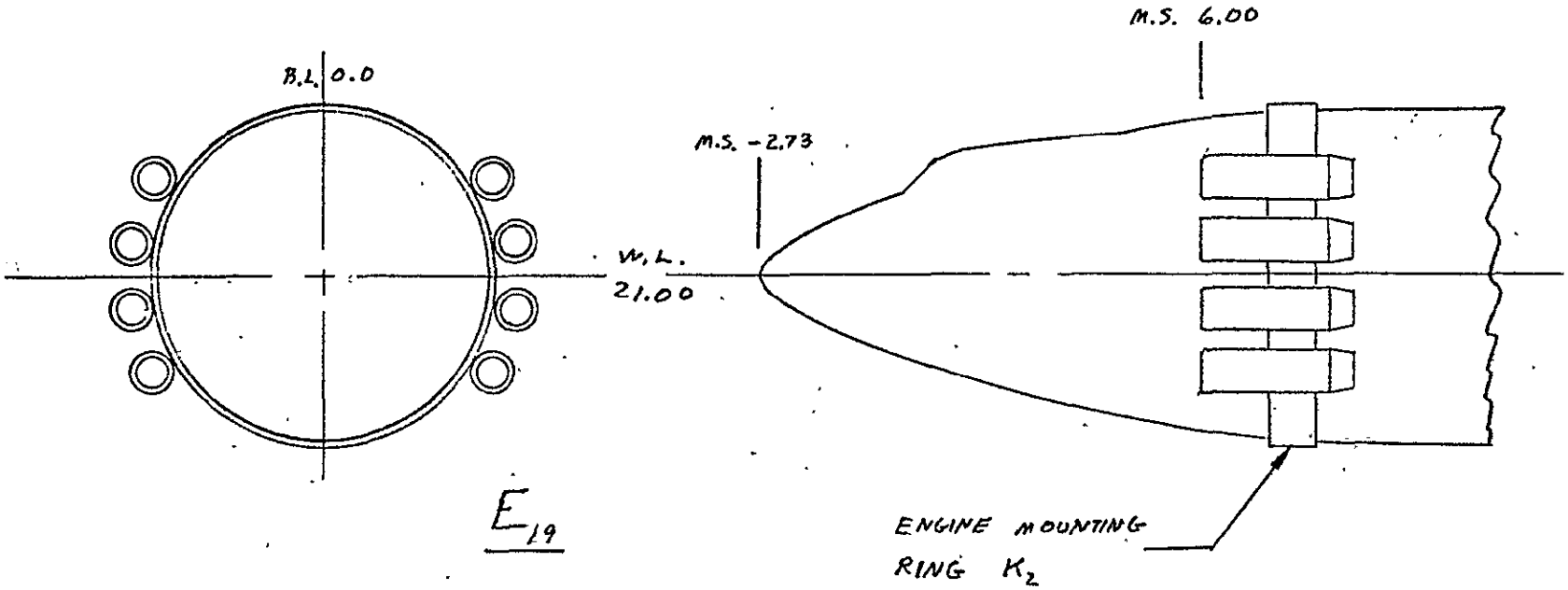


Figure 11. Typical Externally Mounted Low-Bipass Ratio Cruise Engine Nacelle Installation.

NOTE:

1. NACELLE INLET L.E.
   AT MODEL STATION 6.00
2. MODEL STATIONS, WATER LINES
   AND BUTT LINES IN INCHES

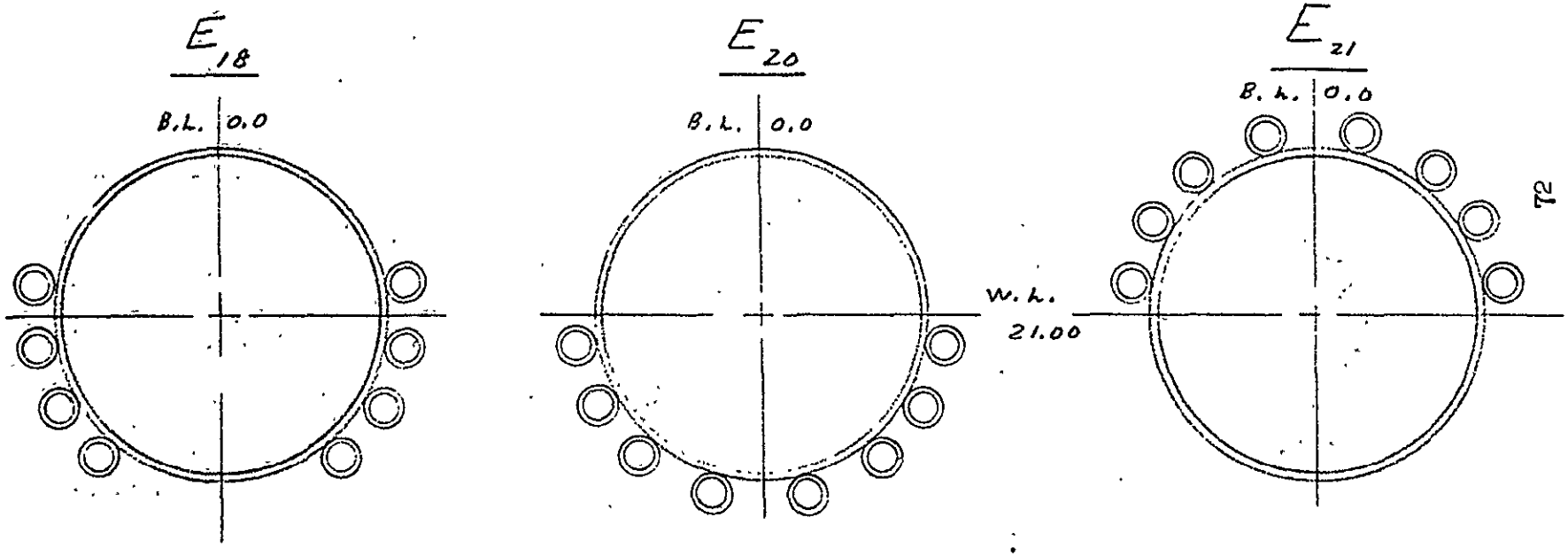


Figure 12. Externally Mounted Low-Bipass Ratio Cruise Engine Nacelle Radial Positions.

NOT REPRODUCIBLE

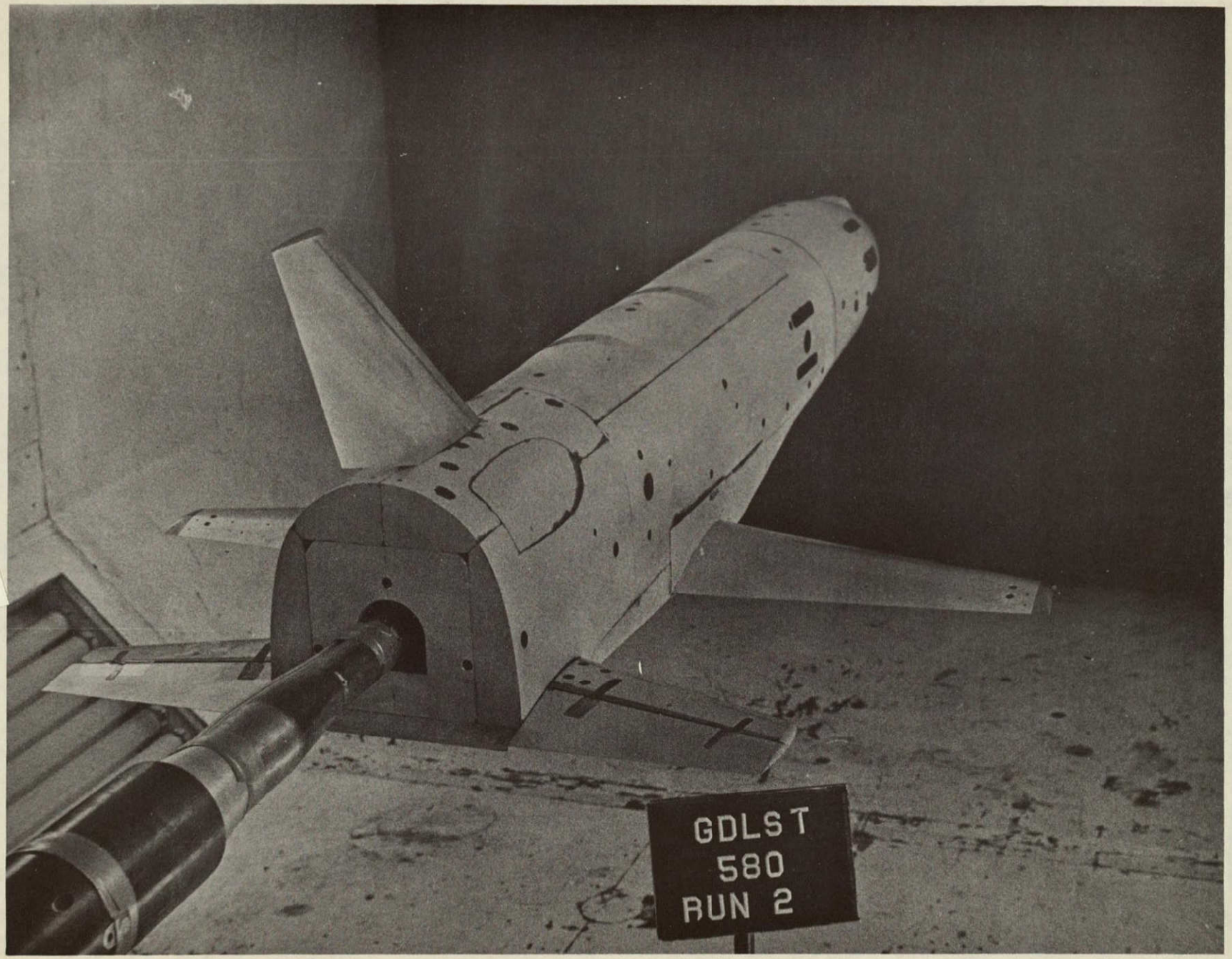


Photo 1. Straight Wing Booster without Cruise Engine Nacelles.

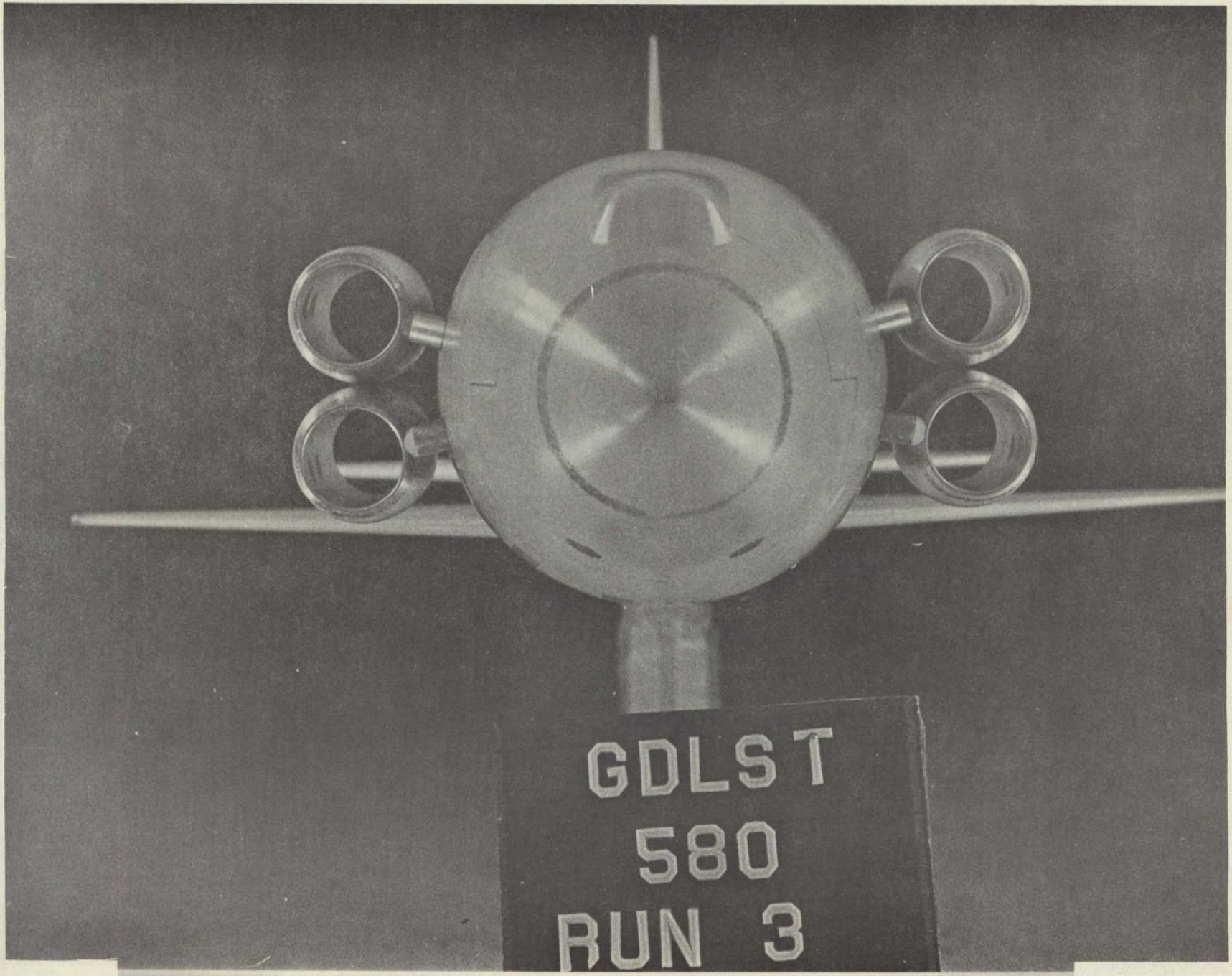


Photo 2. Straight Wing Booster with Hi-Bipass Ratio Cruise Engine Nacelles (E_{10}).

NOT REPRODUCIBLE

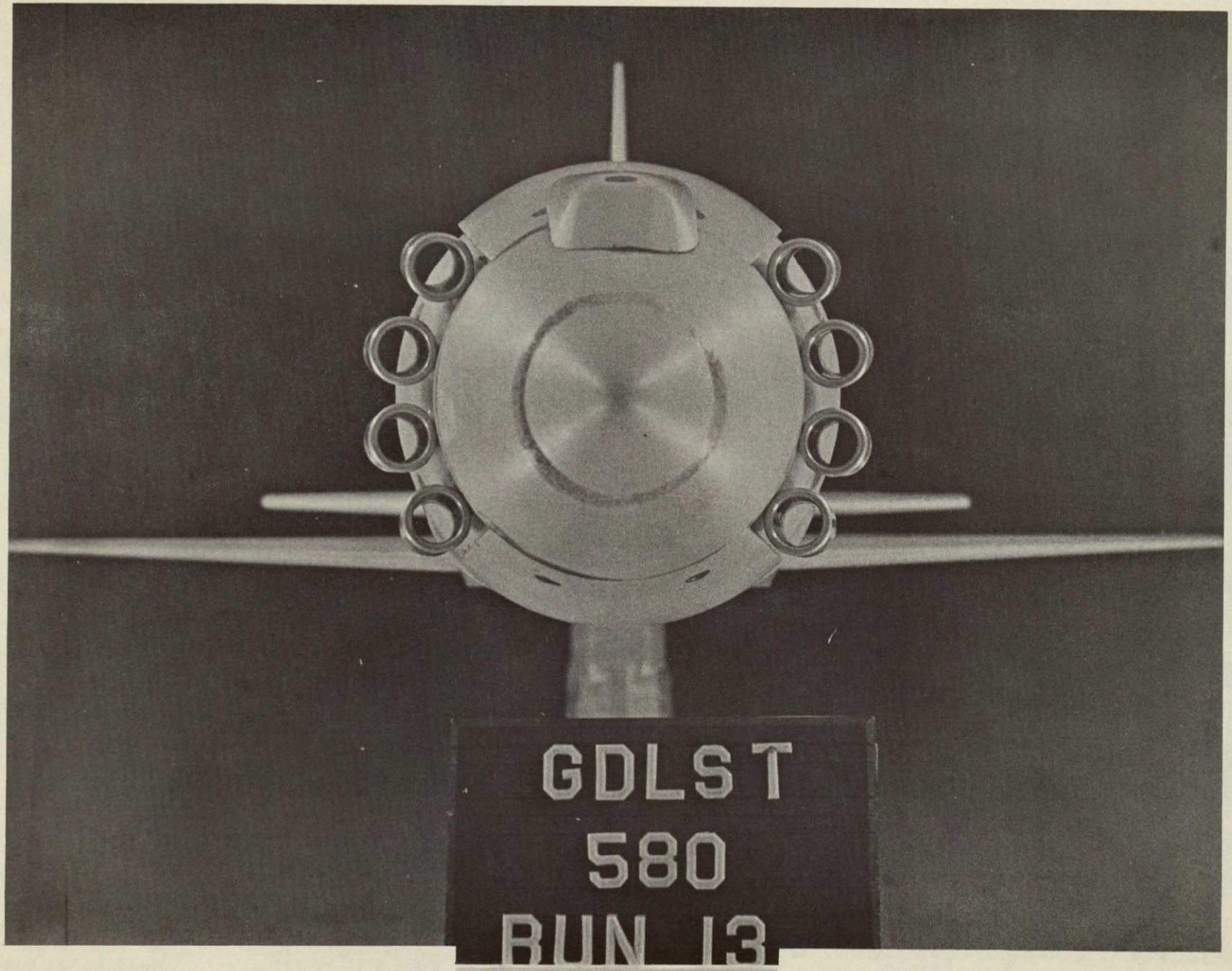


Photo 3. Straight Wing Booster with Semi-Submerged Low-Bipass Ratio Cruise Engine Nacelles (E_{15}).

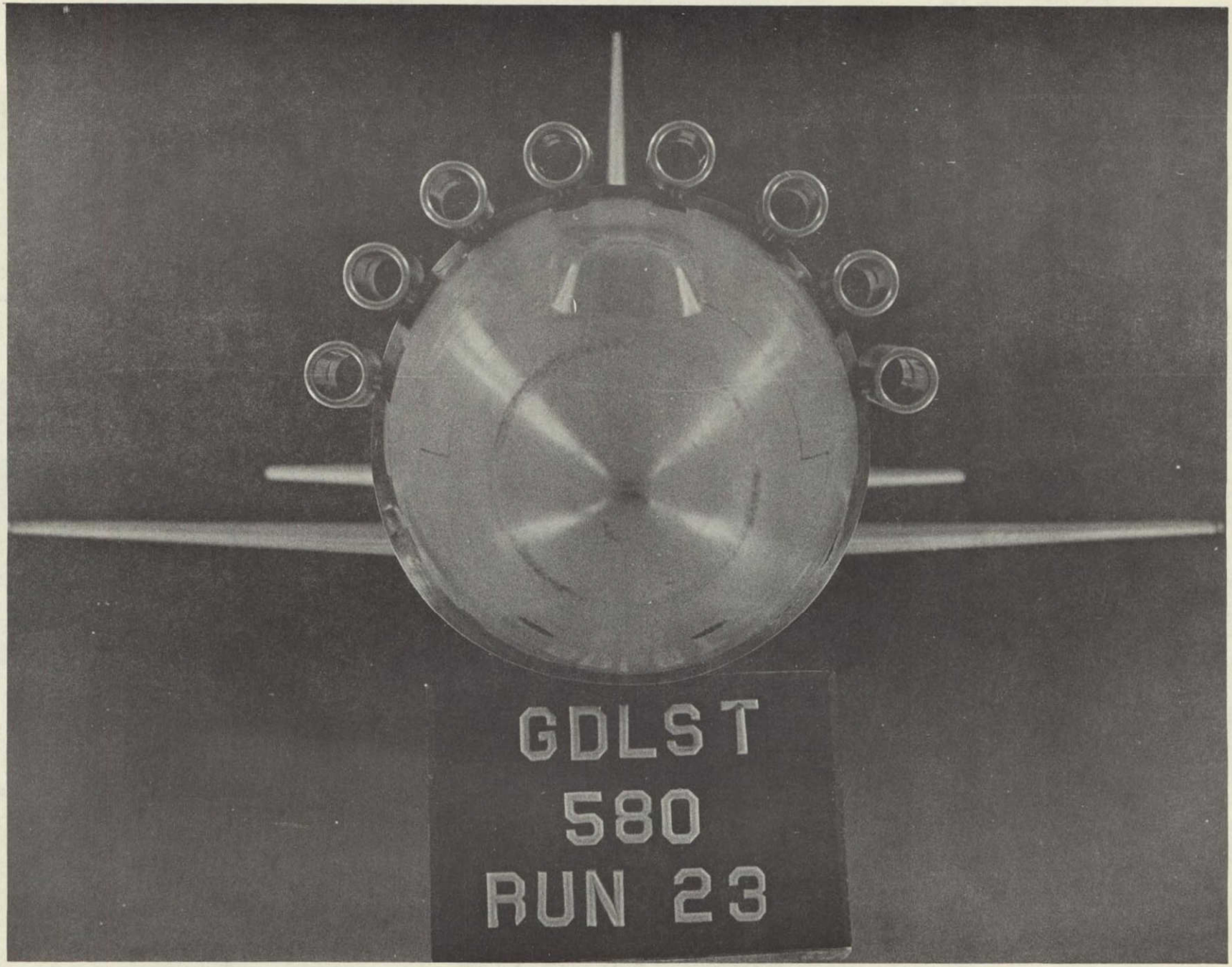


Photo 4. Straight Wing Booster with Externally Mounted Low-Bipass Ratio Cruise Engine Nacelles (E_{21}).

NOT REPRODUCIBLE

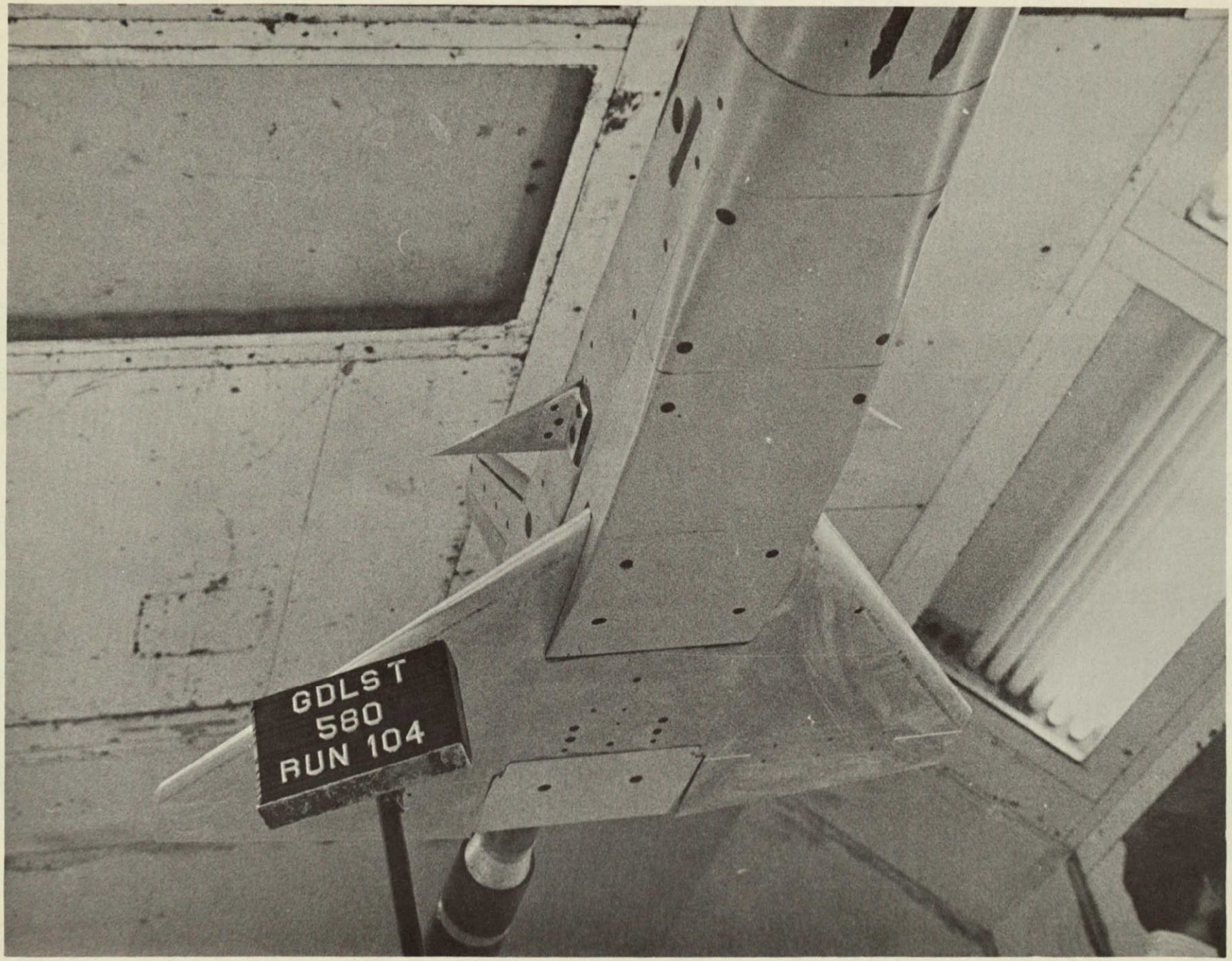


Photo 5. Delta Wing Booster with Small Canards (C_{1A}).

DATA DISPLAY INDEX

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE RADIAL POSITION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8002 RC8010 RC8003 RC8006 RC8008 RC8020

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	1	1
L/D	ALPHA	2	2
CAB	ALPHA	3	3

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8002 RC8010 RC8003 RC8006 RC8008 RC8020

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	4	4
CL	CLM	5	5

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
PC8064 PC8004 PC8007 PC8009 PC8021

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	6	6
DCLNDB	ALPHA	7	7
DCSLDB	ALPHA	8	8

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE LONGITUDINAL POSITION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8002 RC8003 RC8055 RC8033

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	9	9
L/D	ALPHA	10	10
CAB	ALPHA	11	11

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8002 RC8003 RC8055 RC8033

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	12	12
CL	CLM	13	13

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
PC8064 PC8004 PC8056 PC8034

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	14	14
DCLNDB	ALPHA	15	15
DCSLDB	ALPHA	16	16

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8002 RC8008 RC8039

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	17	17
L/D	ALPHA	18	18
CAB	ALPHA	19	19

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8002 RC8008 RC8039

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	20	20
CL	CLM	21	21

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
PC8064 PC8009 PC8040

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	22	22
DCLNDB	ALPHA	23	23
DCSLDB	ALPHA	24	24

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8050 RC8049

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	25	25
L/D	ALPHA	26	26
CAB	ALPHA	27	27

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8050 RC8049

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	28	28
CL	CLM	29	29

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8001 RC8048

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	30	30
L/D	ALPHA	31	31
CAB	ALPHA	32	32

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8001 RC8048

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	33	33
CL	CLM	34	34

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8054 RC8053

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	35	35
L/D	ALPHA	36	36
CAB	ALPHA	37	37

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8054 RC8053

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	38	38
CL	CLM	39	39

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8050 RC8051

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	40	40
L/D	ALPHA	41	41
CAB	ALPHA	42	42

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8050 RC8051

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	43	43
CL	CLM	44	44

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8001 RC8047

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	45	45
L/D	ALPHA	46	46
CAB	ALPHA	47	47

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8001 RC8047

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	48	48
CL	CLM	49	49

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8054 RC8052

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	50	50
L/D	ALPHA	51	51
CAB	ALPHA	52	52

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8054 RC8052

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	53	53
CL	CLM	54	54

COMPONENT BUILDUP WITH SMALL HORIZONTAL AND VERTICAL TAILS

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8002 RC8001 RC8050

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	55	55
L/D	ALPHA	56	56
CAB	ALPHA	57	57

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8002 RC8001 RC8050

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	58	58
CL	CLM	59	59

EFFECT OF NOSE LENGTH WITH HI-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8003 RC8019 RC8005

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	60	60
L/D	ALPHA	61	61
CAB	ALPHA	62	62

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8003 RC8019 RC8005

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	63	63
CL	CLM	64	64

EFFECT OF LARGE HORIZONTAL-VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8039 RC8087

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	65	65
L/D	ALPHA	66	66
CAB	ALPHA	67	67

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8039 RC8087

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	68	68
CL	CLM	69	69

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
PC8040 PC8088

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	70	70
DCLNDB	ALPHA	71	71
DCSLDB	ALPHA	72	72

EFFECT OF LARGE VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8039 RC8090

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	73	73
L/D	ALPHA	74	74
CAB	ALPHA	75	75

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8039 RC8090

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	76	76
CL	CLM	77	77

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
PC8040 PC8091

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	78	78
DCLNDB	ALPHA	79	79
DCSLDB	ALPHA	80	80

EFFECT OF HI-BYPASS RATIO ENGINE POSITION WITH LARGE HORIZONTAL VERTICAL TAIL

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8092 RC8098 RC80A7

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	81	81
L/D	ALPHA	82	82
CAB	ALPHA	83	83

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8092 RC8098 RC8087

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	84	84
CL	CLM	85	85

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
PC8093 PC8099 PC8088

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	86	86
DCLNDB	ALPHA	87	87
DCSLDB	ALPHA	88	88

EFFECT OF TAIL SIZE WITH HI-BYPASS RATIO ENGINES AT MID-LONGITUDINAL POSITION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8053 RC8100

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	89	89
L/D	ALPHA	90	90
CAB	ALPHA	91	91

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8053 RC8100

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	92	92
CL	CLM	93	93

LATER-DIRECTIONAL DATA WITH LARGE HORIZONTAL-VERTICAL TAIL AND ENG AT MID-POS

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
PC8101	CYBETA	ALPHA	94	94
PC8101	DCLNDB	ALPHA	95	95
PC8101	DCSLDB	ALPHA	96	96

EFFECT OF TAIL SIZE

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8054 RC8080

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	97	97
L/D	ALPHA	98	98
CAB	ALPHA	99	99

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8054 RC8080

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	100	100
CL	CLM	101	101

LATERAL DIRECTIONAL DATA WITH LARGE HORIZONTAL-VERTICAL TAIL

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
PC8081	CYBETA	ALPHA	102	102
PC8081	DCLNDB	ALPHA	103	103
PC8081	DCSLDB	ALPHA	104	104

EFFECT OF HORIZONTAL-VERTICAL TAIL SIZE

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8002 RC8092

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	105	105
L/D	ALPHA	106	106
CAB	ALPHA	107	107

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8002 RC8092

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	108	108
CL	CLM	109	109

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
PC8064 PC8093

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	110	110
DCLNDB	ALPHA	111	111
DCSLDB	ALPHA	112	112

COMPONENT BUILDUP WITH LARGE HORIZONTAL TAIL

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8092 RC8001 RC8050

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	113	113
L/D	ALPHA	114	114
CAB	ALPHA	115	115

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8092 RC8001 RC8050

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	116	116
CL	CLM	117	117

EFFECT OF SEMI-SUBMERGED LOW-BYPASS RATIO CRUISE ENGINE RADIAL POSITION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8012 RC8013 RC8016 RC8017

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	118	118
L/D	ALPHA	119	119
CAB	ALPHA	120	120

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8012 RC8013 RC8016 RC8017

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	121	121
CL	CLM	122	122

LATERAL DIRECTIONAL DATA WITH SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
PC8018	CYBETA	ALPHA	123	123
PC8018	DCLNDB	ALPHA	124	124
PC8018	DCSLDB	ALPHA	125	125

EFFECT OF INLET COVER ON SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8013 RC8014

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	126	126
L/D	ALPHA	127	127
CAB	ALPHA	128	128

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8013 RC8014

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	129	129
CL	CLM	130	130

EFFECT OF FILLETS BETWEEN SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8013 RC8015

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	131	131
L/D	ALPHA	132	132
CAB	ALPHA	133	133

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8013 RC8015

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	134	134
CL	CLM	135	135

EFFECT OF LOW-BYPASS RATIO ENGINE MOUNTING RING

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8002 RC8031

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	136	136
L/D	ALPHA	137	137
CAB	ALPHA	138	138

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8002 RC8031

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	139	139
CL	CLM	140	140

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
PC8064 PC8032

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	141	141
DCLNDB	ALPHA	142	142
DCSLDB	ALPHA	143	143

EFFECT OF LOW-BYPASS RATIO ENGINE RADIAL POSITION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8002 RC8029 RC8025 RC8027 RC8023

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	144	144
L/D	ALPHA	145	145
CAB	ALPHA	146	146

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8002 RC8029 RC8025 RC8027 RC8023

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	147	147
CL	CLM	148	148

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
PC8064 PC8030 PC8026 PC8028 PC8024

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	149	149
DCLNDB	ALPHA	150	150
DCSLDB	ALPHA	151	151

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8029 RC8069 RC8066 RC8050

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	152	152
L/D	ALPHA	153	153
C_{AB}	ALPHA	154	154

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8029 RC8069 RC8066 RC8050

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	155	155
CL	CLM	156	156

BODY AND WING DATA WITH LOW-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
RC8065	CL	ALPHA	157	157
RC8065	L/D	ALPHA	158	158
RC8065	CAB	ALPHA	159	159

DEPENDENT VARIABLE VS DEPENDENT VARIABLE

DATASETS PLOTTED	DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
RC8065	CL	CD	160	160
RC8065	CL	CLM	161	161

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8023 RC8068 RC8067 RC8050

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CL	ALPHA	162	162
L/D	ALPHA	163	163
CAB	ALPHA	164	164

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8023 RC8068 RC8067 RC8050

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CL	CD	165	165
CL	CLM	166	166

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZONTAL-VERT TAIL

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8077 RC8082 RC8092 RC8080 RC8050

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	167	167
L/D	ALPHA	168	168
CAB	ALPHA	169	169

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8077 RC8082 RC8092 RC8080 RC8050

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	170	170
CL	CLM	171	171

EFFECT OF LOW-BYPASS RATIO ENGINES ON BODY-TAIL CONFIGURATION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8079 RC8078

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	172	172
L/D	ALPHA	173	173
CAB	ALPHA	174	174

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8079 RC8078

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	175	175
CL	CLM	176	176

LATER-DIRECT BUILDUP DATA WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZ-VER TAI

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
PC8083 PC8093 PC8081

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	177	177
DCLNDB	ALPHA	178	178
DCSLDB	ALPHA	179	179

LONGITUDINAL DATA WITH ENGINES OFF

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8045 RC8046 RC8002

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	180	180
L/D	ALPHA	181	181
CA8	ALPHA	182	182

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8045 RC8046 RC8002

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	183	183
CL	CLM	184	184

DEPENDENT VARIABLE VS PARAMETRIC VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
AC8045 AC8046 AC8002

DEPENDENT VARIABLE	PARAMETRIC VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ELEVTR	185	185
CLM	ELEVTR	186	186
CD	ELEVTR	187	187

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8057 RC8055

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	188	188
L/D	ALPHA	189	189
CAB	ALPHA	190	190

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8057 RC8055

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	191	191
CL	CLM	192	192

DEPENDENT VARIABLE VS PARAMETRIC VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
AC8057 AC8055

DEPENDENT VARIABLE	PARAMETRIC VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ELEVTR	193	193
CLM	ELEVTR	194	194
CD	ELEVTR	195	195

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8037 RC8036 RC8035 RC8020

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	196	196
L/D	ALPHA	197	197
CAB	ALPHA	198	198

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8037 RC8036 RC8035 RC8020

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	199	199
CL	CLM	200	200

DEPENDENT VARIABLE VS PARAMETRIC VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
AC8037 AC8036 AC8035 AC8020

DEPENDENT VARIABLE	PARAMETRIC VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ELEVTR	201	201
CLM	ELEVTR	202	202
CD	ELEVTR	203	203

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8042 RC8039 RC8043

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	204	204
L/D	ALPHA	205	205
C_{A3}	ALPHA	206	206

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8042 RC8039 RC8043

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	207	207
CL	CLM	208	208

DEPENDENT VARIABLE VS PARAMETRIC VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
AC8042 AC8039 AC8043

DEPENDENT VARIABLE	PARAMETRIC VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ELEVTR	209	209
CLM	ELEVTR	210	210
CD	ELEVTR	211	211

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8060 RC8061 RC8062

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	212	212
L/D	ALPHA	213	213
CAB	ALPHA	214	214

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8060 RC8061 RC8062

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	215	215
CL	CLM	216	216

DEPENDENT VARIABLE VS PARAMETRIC VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
AC8060 AC8061 AC8062

DEPENDENT VARIABLE	PARAMETRIC VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ELEVTR	217	217
CLM	ELEVTR	218	218
CD	ELEVTR	219	219

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8072 RC8070 RC8073

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	220	220
L/D	ALPHA	221	221
CAB	ALPHA	222	222

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8072 RC8070 RC8073

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	223	223
CL	CLM	224	224

DEPENDENT VARIABLE VS PARAMETRIC VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
AC8072 AC8070 AC8073

DEPENDENT VARIABLE	PARAMETRIC VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ELEVTR	225	225
CLM	ELEVTR	226	226
CD	ELEVTR	227	227

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND ENGINES OFF

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8095 RC8092 RC8094

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	228	228
L/D	ALPHA	229	229
CAB	ALPHA	230	230

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8095 RC8092 RC8094

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	231	231
CL	CLM	232	232

DEPENDENT VARIABLE VS PARAMETRIC VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
AC8095 AC8092 AC8094

DEPENDENT VARIABLE	PARAMETRIC VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ELEVTR	233	233
CLM	ELEVTR	234	234
CD	ELEVTR	235	235

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8096 RC8098

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	236	236
L/D	ALPHA	237	237
CAB	ALPHA	238	238

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8096 RC8098

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	239	239
CL	CLM	240	240

DEPENDENT VARIABLE VS PARAMETRIC VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
AC8096 AC8098

DEPENDENT VARIABLE	PARAMETRIC VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ELEVTR	241	241
CLM	ELEVTR	242	242
CD	ELEVTR	243	243

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8089 RC8087

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	244	244
L/D	ALPHA	245	245
CAB	ALPHA	246	246

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8089 RC8087

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	247	247
CL	CLM	248	248

DEPENDENT VARIABLE VS PARAMETRIC VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
AC8089 AC8087

DEPENDENT VARIABLE	PARAMETRIC VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ELEVTR	249	249
CLM	ELEVTR	250	250
CD	ELEVTR	251	251

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND LOW-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8084 RC8082

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	252	252
L/D	ALPHA	253	253
CAB	ALPHA	254	254

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8084 RC8082

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	255	255
CL	CLM	256	256

DEPENDENT VARIABLE VS PARAMETRIC VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
AC8084 AC8082

DEPENDENT VARIABLE	PARAMETRIC VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ELEVTR	257	257
CLM	ELEVTR	258	258
CD	ELEVTR	259	259

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8057 RC8058

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	260	260
L/D	ALPHA	261	261
CAB	ALPHA	262	262

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8057 RC8058

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	263	263
CL	CLM	264	264

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8042 RC8041

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	265	265
L/D	ALPHA	266	266
CAB	ALPHA	267	267

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8042 RC8041

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	268	268
CL	CLM	269	269

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8037 RC8038

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	270	270
L/D	ALPHA	271	271
CAB	ALPHA	272	272

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8037 RC8038

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	273	273
CL	CLM	274	274

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES AND LARGE HORIZ-VERT TAIL

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8087 RC8086

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	275	275
L/D	ALPHA	276	276
CAB	ALPHA	277	277

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8087 RC8086

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	278	278
CL	CLM	279	279

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8060 RC8059

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	280	280
L/D	ALPHA	281	281
CAB	ALPHA	282	282

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8060 RC8059

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	283	283
CL	CLM	284	284

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8075 RC8070

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	285	285
L/D	ALPHA	286	286
CAB	ALPHA	287	287

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8075 RC8070

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	288	288
CL	CLM	289	289

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZ-VERT TAIL

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8082 RC8085

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	290	290
L/D	ALPHA	291	291
CAB	ALPHA	292	292

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8082 RC8085

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	293	293
CL	CLM	294	294

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8077 RC8076

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	295	295
L/D	ALPHA	296	296
CAB	ALPHA	297	297

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8077 RC8076

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	298	298
CL	CLM	299	299

EFFECT OF LARGE HORIZ-VERT TAIL ON FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENG

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
NC8070 NC8075 DC8110 NC8077 NC8076 DC8111

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	300	300
CLM	ALPHA	301	301
CD	ALPHA	302	302

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
EC8110 EC8111

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
DCL	ALPHA	303	303
DCLM	ALPHA	304	304
DCD	ALPHA	305	305

EFFECT OF DORSAL FIN WITH LOW-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8074 RC8070

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	306	306
L/D	ALPHA	307	307
CAB	ALPHA	308	308

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8074 RC8070

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	309	309
CL	CLM	310	310

EFFECT OF LOW-BYPASS RATIO ENGINES ON DELTA WING CONFIGURATION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8103 RC8102

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	311	311
L/D	ALPHA	312	312
CAB	ALPHA	313	313

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8103 RC8102

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	314	314
CL	CLM	315	315

EFFECT OF CANARD SIZE ON DELTA WING CONFIGURATION WITH LOW-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8105 RC8104 RC8103

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	316	316
L/D	ALPHA	317	317
CAB	ALPHA	318	318

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8105 RC8104 RC8103

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	319	319
CL	CLM	320	320

EFFECT OF CANARD POSITION ON DELTA WING CONFIG WITH LOW-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8106 RC8105

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	321	321
L/D	ALPHA	322	322
CAB	ALPHA	323	323

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8106 RC8105

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	324	324
CL	CLM	325	325

LONGITUDINAL DATA ON DELTA WING CONFIGURATION WITH BENT CANARD AND ENGINES OFF

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8107 RC8108

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	326	326
L/D	ALPHA	327	327
CAB	ALPHA	328	328

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
RC8107 RC8108

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	329	329
CL	CLM	330	330

LONGITUDINAL CONTROL DERIVATIVES WITH ENGINES OFF

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
EC8046	DCL/DE	ALPHA	331	331
EC8046	DCD/DE	ALPHA	332	332
EC8046	DCLMDE	ALPHA	333	333

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
EC8045	DCL/DE	ALPHA	334	334
EC8045	DCD/DE	ALPHA	335	335
EC8045	DCLMDE	ALPHA	336	336

LONGITUDINAL CONTROL DERIVATIVES WITH HI-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
EC8035	DCL/DE	ALPHA	337	337
EC8035	DCD/DE	ALPHA	338	338
EC8035	DCLMDE	ALPHA	339	339

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
EC8057 EC8037 EC8042

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
DCL/DE	ALPHA	340	340
DCD/DE	ALPHA	341	341
DCLMDE	ALPHA	342	342

LONGITUDINAL CONTROL DERIVATIVES WITH LOW-BYPASS RATIO ENGINES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS

DATASETS PLOTTED:
EC8061 EC8072

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
DCL/DE	ALPHA	343	343
DCD/DE	ALPHA	344	344
DCLMDE	ALPHA	345	345

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
EC8060	DCL/DF	ALPHA	346	346
EC8060	DCD/DE	ALPHA	347	347
EC8060	DCLMDF	ALPHA	348	348

LONGITUDINAL CONTROL DERIVATIVES WITH LARGE HORIZ-VERT TAIL, HI-BYPASS RATIO EN

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
EC8089	DCL/DE	ALPHA	349	349
EC8089	DCD/DE	ALPHA	350	350
EC8089	DCLMDE	ALPHA	351	351

LONG CONTROL DERIVATIVES WITH LARGE HORIZ-VERT TAIL AND LOW-BYPASS RATIO ENGINE

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
EC8084	DCL/DF	ALPHA	352	352
EC8084	DCD/DE	ALPHA	353	353
EC8084	DCLMDE	ALPHA	354	354

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.56

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
HC8045 HC8046 HC8002

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	355	355
CL	ALPHA	356	356
CD	ALPHA	357	357

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.60

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
JC8045 JC8046 JC8002

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CLM	ALPHA	358	358
CL	ALPHA	359	359
CD	ALPHA	360	360

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.64

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8045 RC8046 RC8002

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CLM	ALPHA	361	361
CL	ALPHA	362	362
CD	ALPHA	363	363

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.68

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
KC8045 KC8046 KC8002

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CLM	ALPHA	364	364
CL	ALPHA	365	365
CD	ALPHA	366	366

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.56

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
HC8057 HC8058

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CLM	ALPHA	367	367
CL	ALPHA	368	368
CD	ALPHA	369	369

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.(

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
JC8057 JC8055

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	370	370
CL	ALPHA	371	371
CD	ALPHA	372	372

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.(

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8057 RC8055

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	373	373
CL	ALPHA	374	374
CD	ALPHA	375	375

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.(

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
KC8057 KC8055

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	376	376
CL	ALPHA	377	377
CD	ALPHA	378	378

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
HC8037 HC8036 HC8035 HC8020

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	379	379
CL	ALPHA	380	380
CD	ALPHA	381	381

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.60

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
JC8037 JC8036 JC8035 JC8020

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	382	382
CL	ALPHA	383	383
CD	ALPHA	384	384

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.64

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8037 RC8036 RC8035 RC8020

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	385	385
CL	ALPHA	386	386
CD	ALPHA	387	387

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.68

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
KC8037 KC8036 KC8035 KC8020

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	388	388
CL	ALPHA	389	389
CD	ALPHA	390	390

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.56

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
HC8042 HC8039 HC8043

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	391	391
CL	ALPHA	392	392
CD	ALPHA	393	393

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.6

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
JC8042 JC8039 JC8043

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CLM	ALPHA	394	394
CL	ALPHA	395	395
CD	ALPHA	396	396

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.6

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8042 RC8039 RC8043

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CLM	ALPHA	397	397
CL	ALPHA	398	398
CD	ALPHA	399	399

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.6

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
KC8042 KC8039 KC8043

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CLM	ALPHA	400	400
CL	ALPHA	401	401
CD	ALPHA	402	402

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.5

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
HC8060 HC8061 HC8062

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CLM	ALPHA	403	403
CL	ALPHA	404	404
CD	ALPHA	405	405

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.60

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
JC8060 JC8061 JC8062

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	406	406
CL	ALPHA	407	407
CD	ALPHA	408	408

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.64

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8060 RC8061 RC8062

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	409	409
CL	ALPHA	410	410
CD	ALPHA	411	411

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.68

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
KC8060 KC8061 KC8062

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	412	412
CL	ALPHA	413	413
CD	ALPHA	414	414

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.56

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
HC8072 HC8070 HC8073

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	415	415
CL	ALPHA	416	416
CD	ALPHA	417	417

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
JC8072 JC8070 JC8073

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	418	418
CL	ALPHA	419	419
CD	ALPHA	420	420

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
RC8072 RC8070 RC8073

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	421	421
CL	ALPHA	422	422
CD	ALPHA	423	423

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY

DATASETS PLOTTED:
KC8072 KC8070 KC8073

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CLM	ALPHA	424	424
CL	ALPHA	425	425
CD	ALPHA	426	426

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 three sections:

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

(b) an expanded list of all data sets, containing the identifier, the descriptor, the resident dependent variables, reference data, parameters and respective values, and independent variable ranges.

(c) the 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:

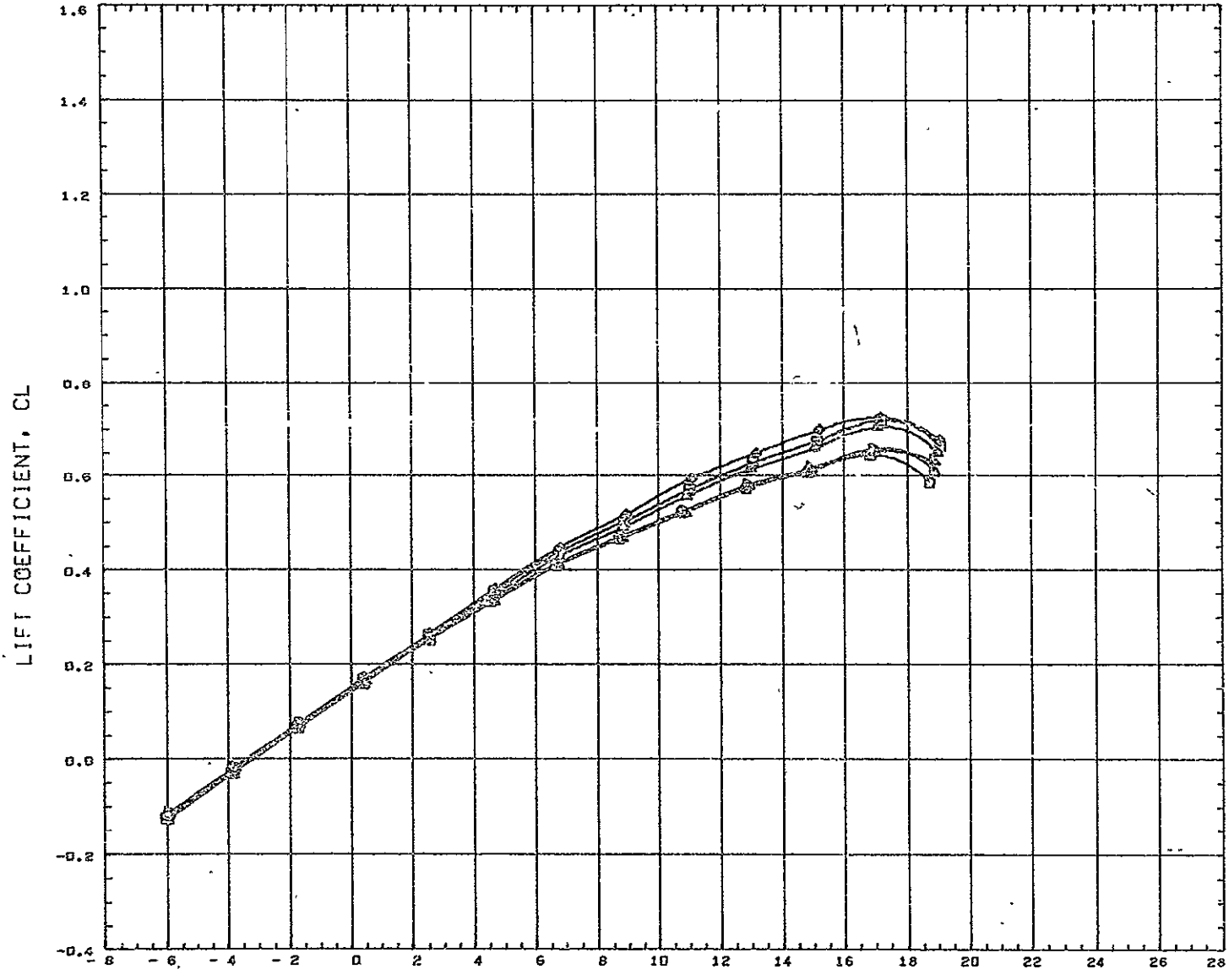
NASA AMES	Mr. John Axelson
NASA LaRC	Mr. David Stone
NASA MSC	Mr. Ray Nelson
NASA MSFC	Mr. Jim Weaver
GD/C	Mr. W. Gallaher

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

James L. Glynn, Jr.
Department 2780
Chrysler Corporation Space Division
New Orleans, La. 70129

(504) 255-2214
(504) 255-2330

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE RADIAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8010)	□	CVLSWT TEST 580-0 B9W3AT4V4E9
(RC8003)	◇	CVLSWT TEST 580-0 B9W3AT4V4E10
(RC8006)	△	CVLSWT TEST 580-0 B9W3AT4V4E11
(RC8008)	▷	CVLSWT TEST 580-0 B9W3AT4V4E12
(RC8020)	D	CVLSWT TEST 580-0 B9W3AT4V4E26

MACH 0.259

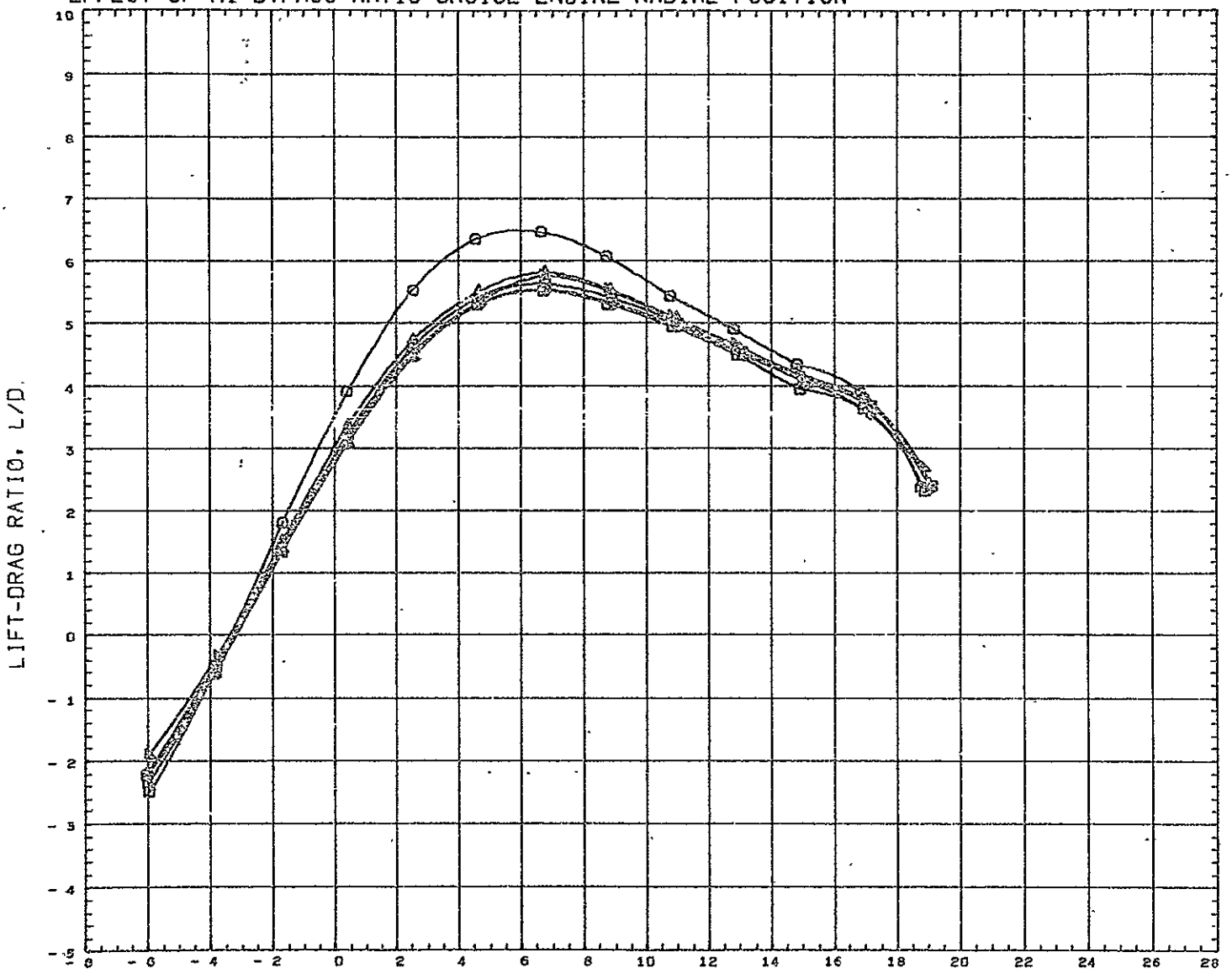
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE RADIAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8010)	□	CVLSWT TEST 580-0 B9W3AT4V4E9
(RC8003)	◇	CVLSWT TEST 580-0 B9W3AT4V4E10
(RC8006)	△	CVLSWT TEST 580-0 B3W3AT4V4E11
(RC8008)	▷	CVLSWT TEST 580-0 B9W3AT4V4E12
(RC8020)	▷	CVLSWT TEST 580-0 B9W3AT4V4E26

MACH 0.259

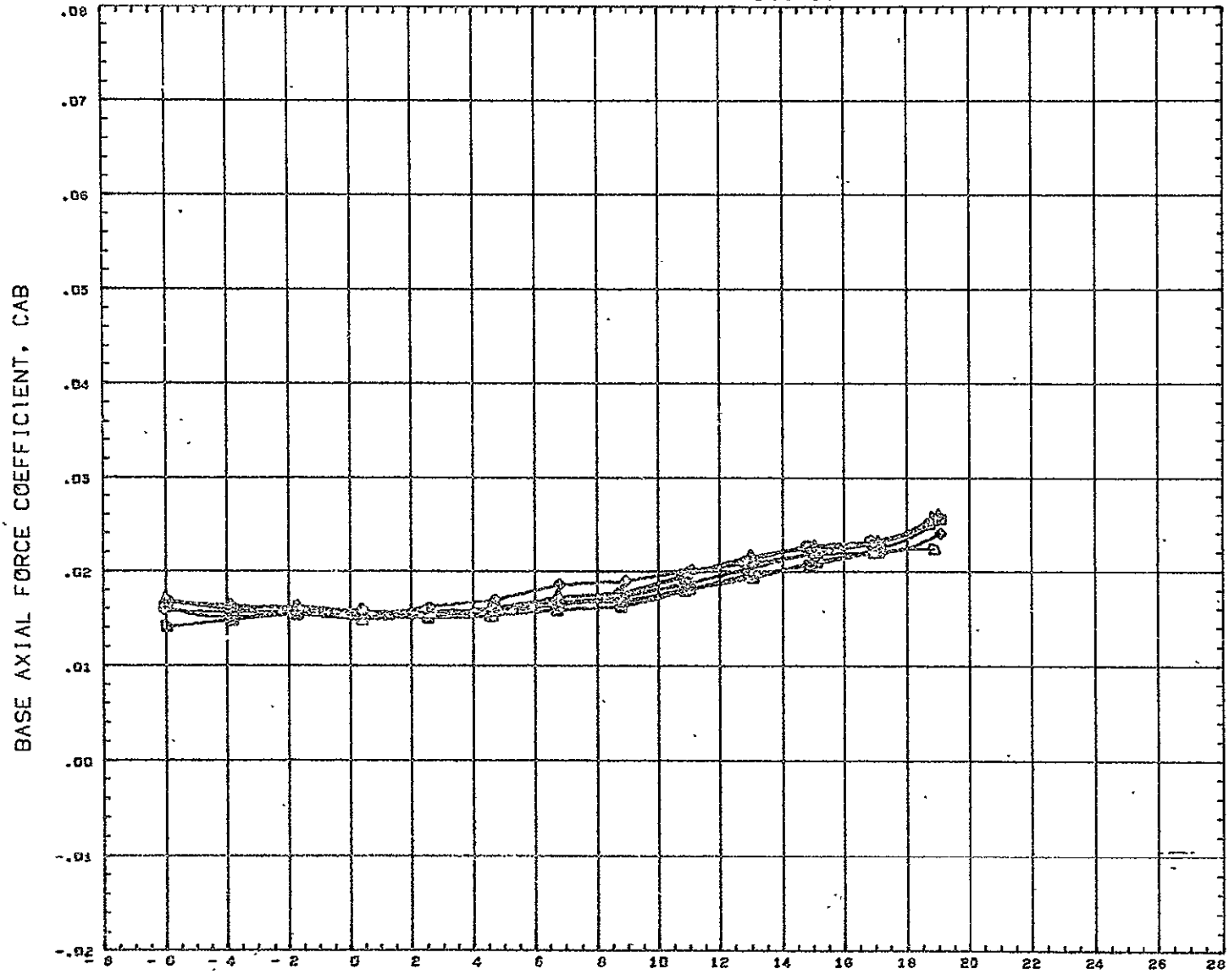
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SFOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE RADIAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC0002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC0010)	□	CVLSWT TEST 580-0 B9W3AT4V4E9
(RC0003)	◇	CVLSWT TEST 580-0 B9W3AT4V4E10
(RC0006)	△	CVLSWT TEST 580-0 B9W3AT4V4E11
(RC0008)	▷	CVLSWT TEST 580-0 B9W3AT4V4E12
(RC0020)	▷	CVLSWT TEST 580-0 B9W3AT4V4E26

MACH 0.259

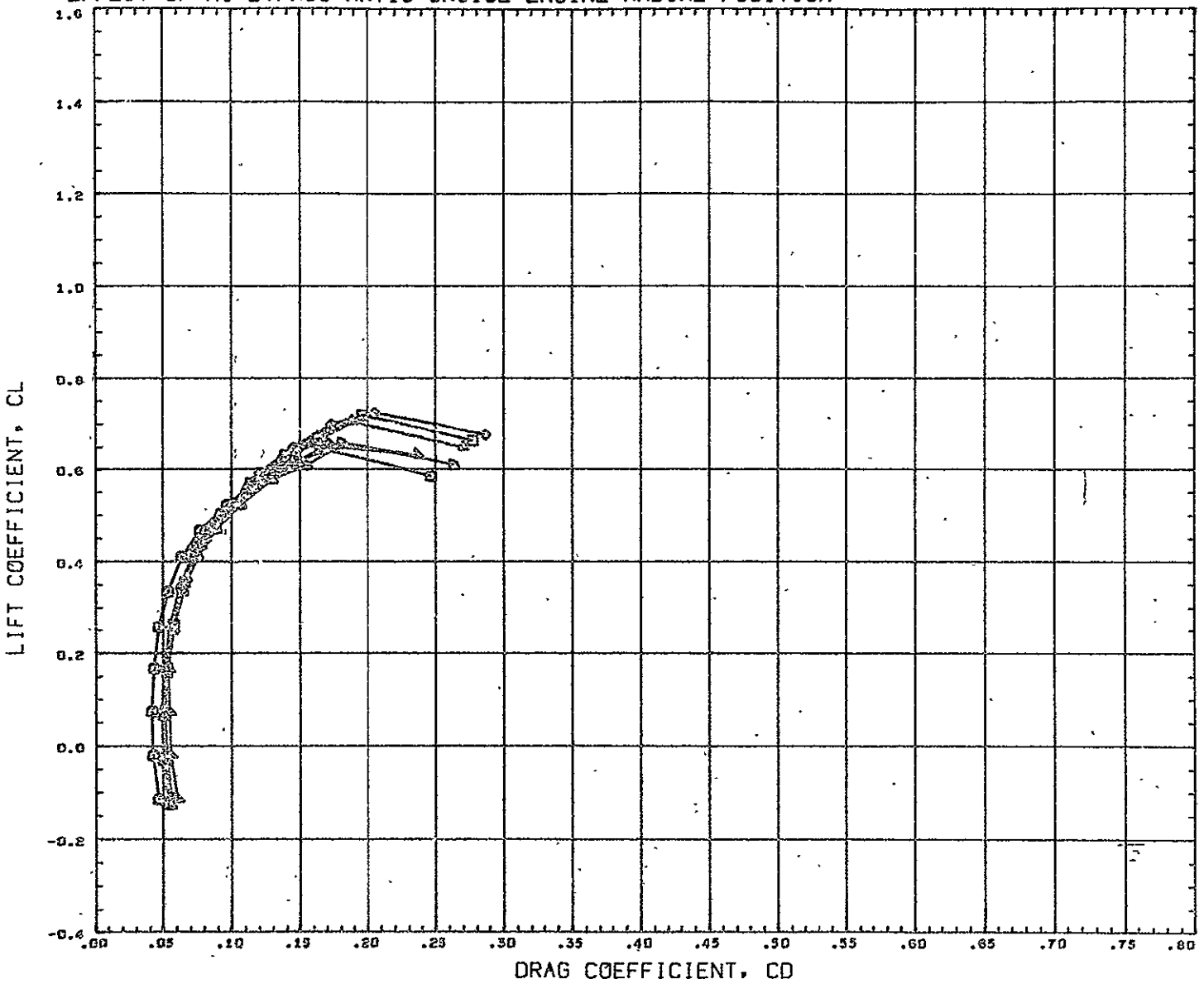
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE RADIAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC6002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC6010)	□	CVLSWT TEST 580-0 B9W3AT4V4E9
(RC6003)	◇	CVLSWT TEST 580-0 B9W3AT4V4E10
(RC6006)	△	CVLSWT TEST 580-0 B9W3AT4V4E11
(RC6008)	▷	CVLSWT TEST 580-0 B9W3AT4V4E12
(RC6020)	▱	CVLSWT TEST 580-0 B9W3AT4V4E26

MACH 0.259

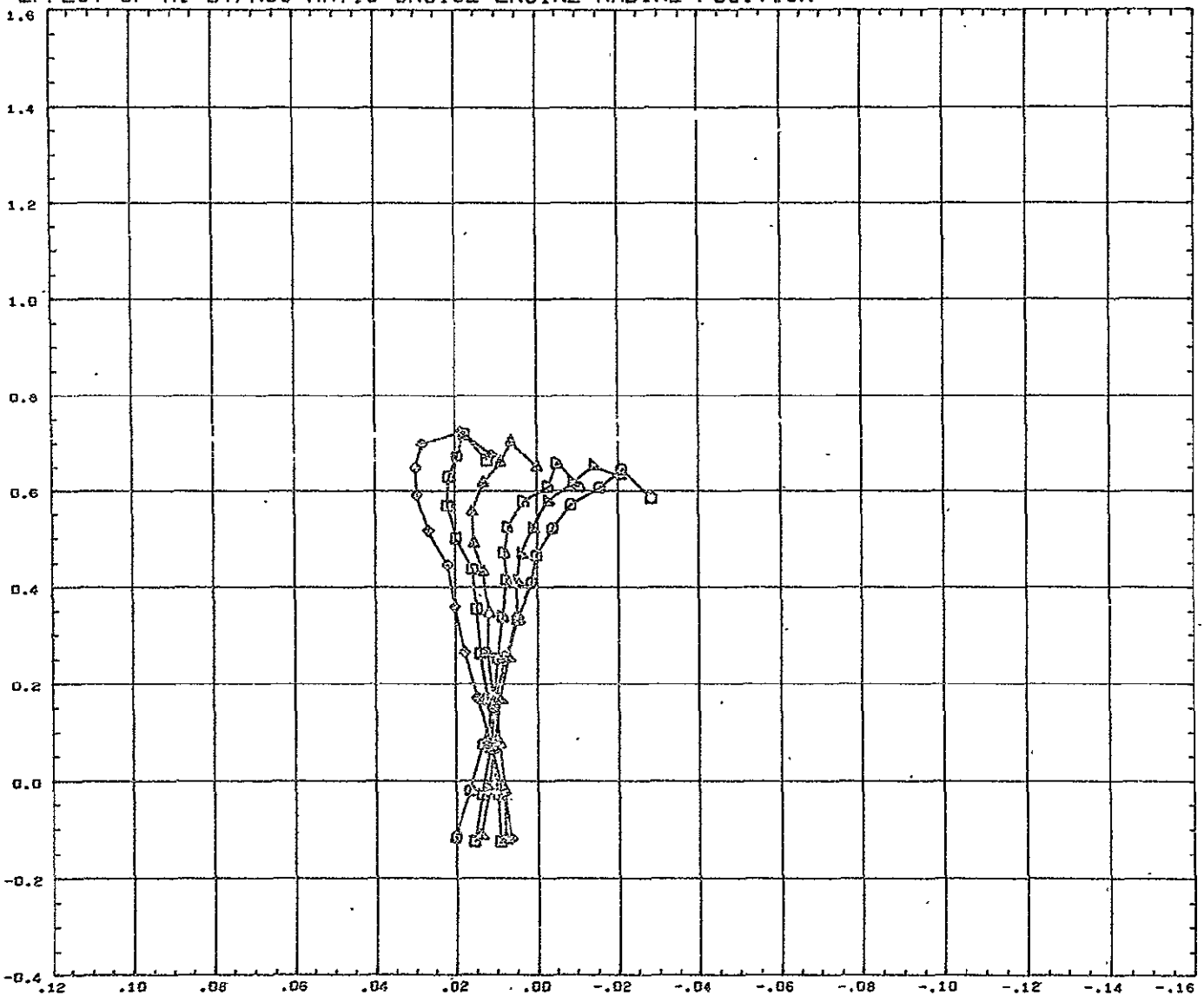
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE RADIAL POSITION



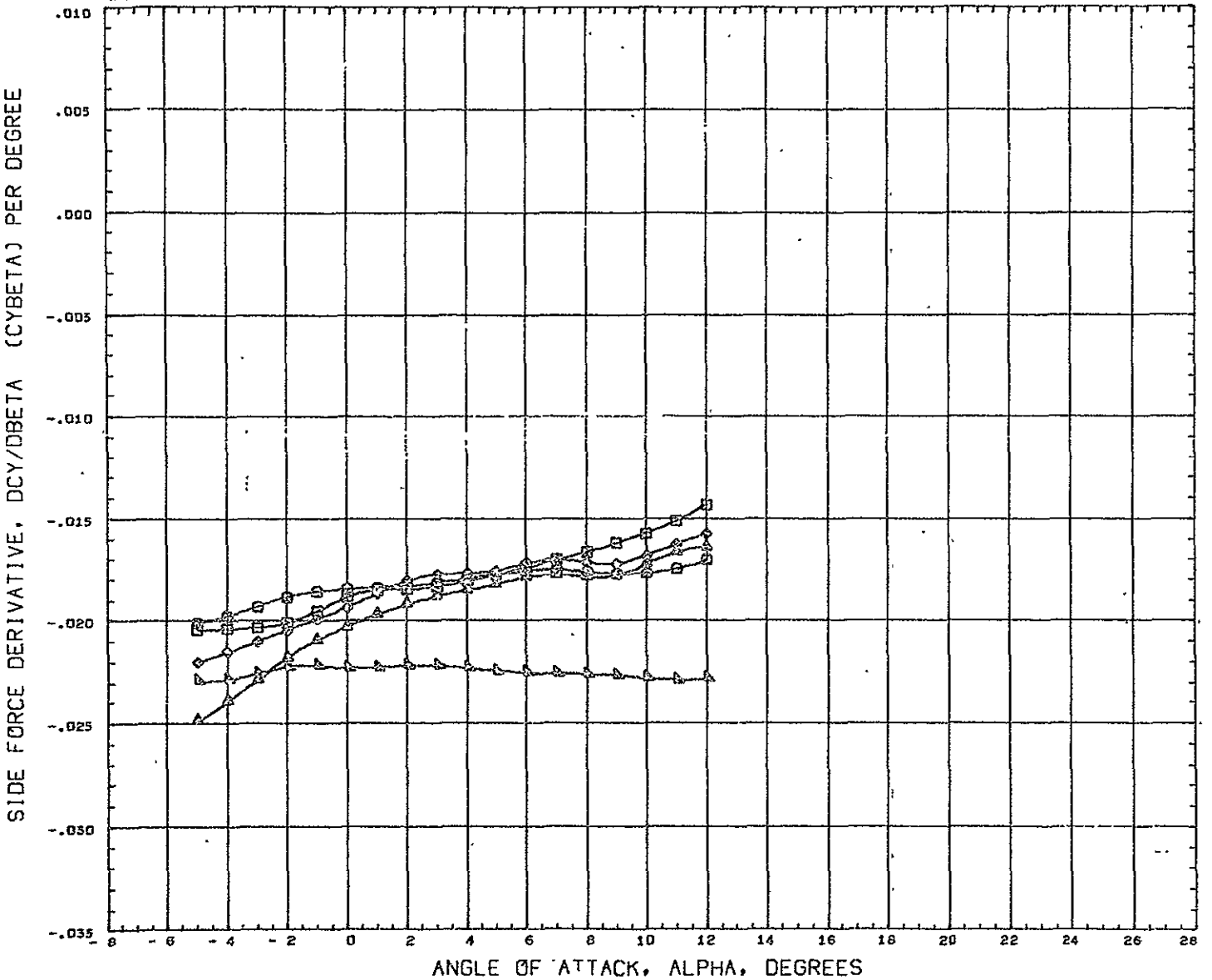
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8010)	□	CVLSWT TEST 580-0 B9W3AT4V4E9
(RC8003)	◇	CVLSWT TEST 580-0 B9W3AT4V4E10
(RC8006)	△	CVLSWT TEST 580-0 B9W3AT4V4E11
(RC8008)	▷	CVLSWT TEST 580-0 B9W3AT4V4E12
(RC8020)	▯	CVLSWT TEST 580-0 B9W3AT4V4E26

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE RADIAL POSITION



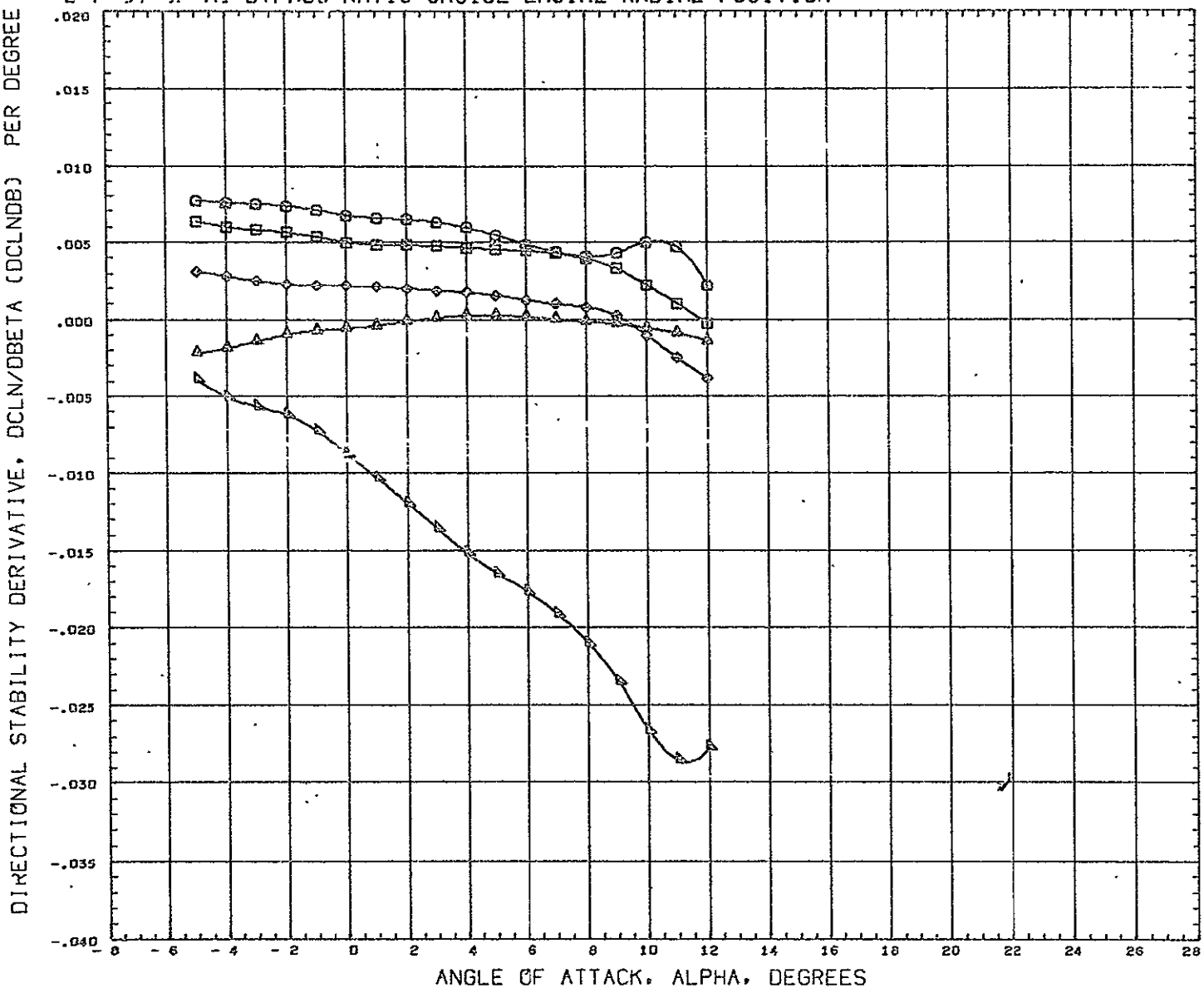
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(PC8064)	○	CVLSWT TEST 580-0 B9W3AT4V4
(PC8004)	□	CVLSWT TEST 580-0 B9W3AT4V4E10
(PC8007)	◇	CVLSWT TEST 580-0 B9W3AT4V4E11
(PC8009)	△	CVLSWT TEST 580-0 B9W3AT4V4E12
(PC8021)	▷	CVLSWT TEST 580-0 B9W3AT4V4E26

MACH 0.259

PARAMETRIC VALUES			
BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE RADIAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FC8064)	○	CVLSWT TEST 580-0 B9W3AT4V4
(FC8004)	□	CVLSWT TEST 580-0 B9W3AT4V4E10
(FC8007)	◇	CVLSWT TEST 580-0 B9W3AT4V4E11
(FC8009)	△	CVLSWT TEST 580-0 B9W3AT4V4E12
(FC8021)	▷	CVLSWT TEST 580-0 B9W3AT4V4E26

MACH 0.259

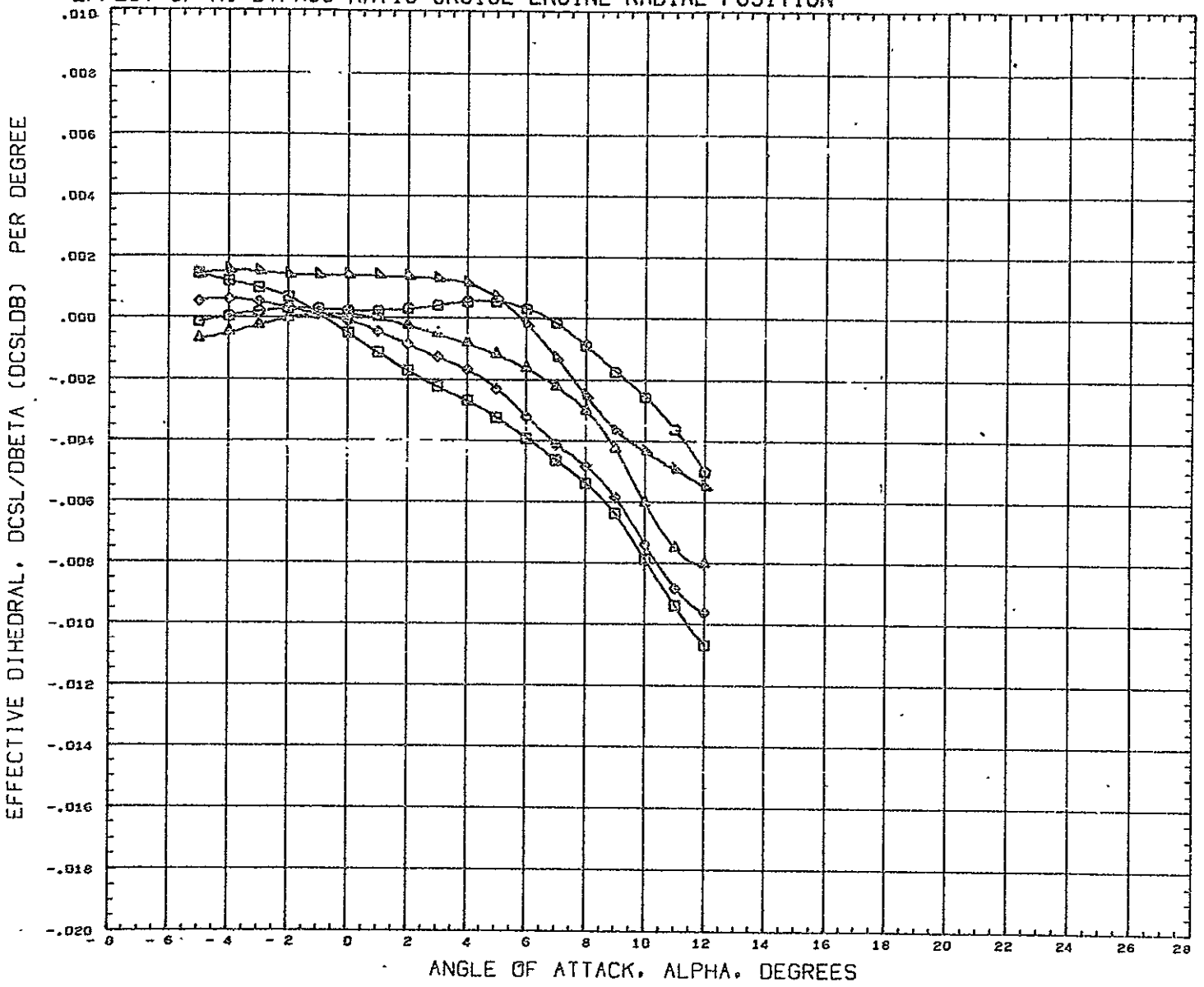
PARAMETRIC VALUES

BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE RADIAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FC8004)	○	CVLSWT TEST 580-0 B9W3AT4V4
(FC8004)	□	CVLSWT TEST 580-0 B9W3AT4V4E10
(FC8007)	◇	CVLSWT TEST 580-0 B9W3AT4V4E11
(FC8009)	△	CVLSWT TEST 580-0 B9W3AT4V4E12
(FC8021)	▷	CVLSWT TEST 580-0 B9W3AT4V4E26

MACH 0.259

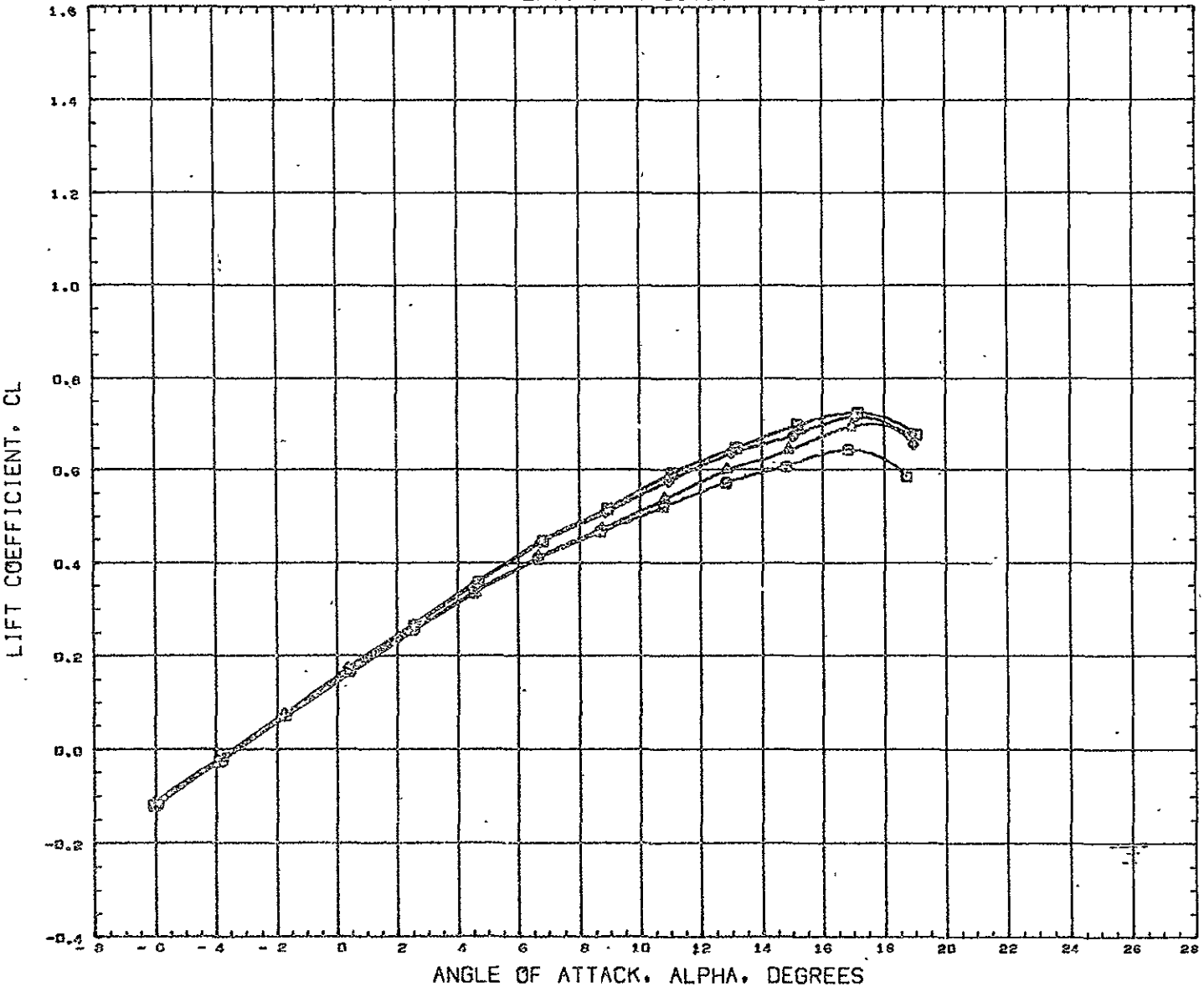
PARAMETRIC VALUES

BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE LONGITUDINAL POSITION



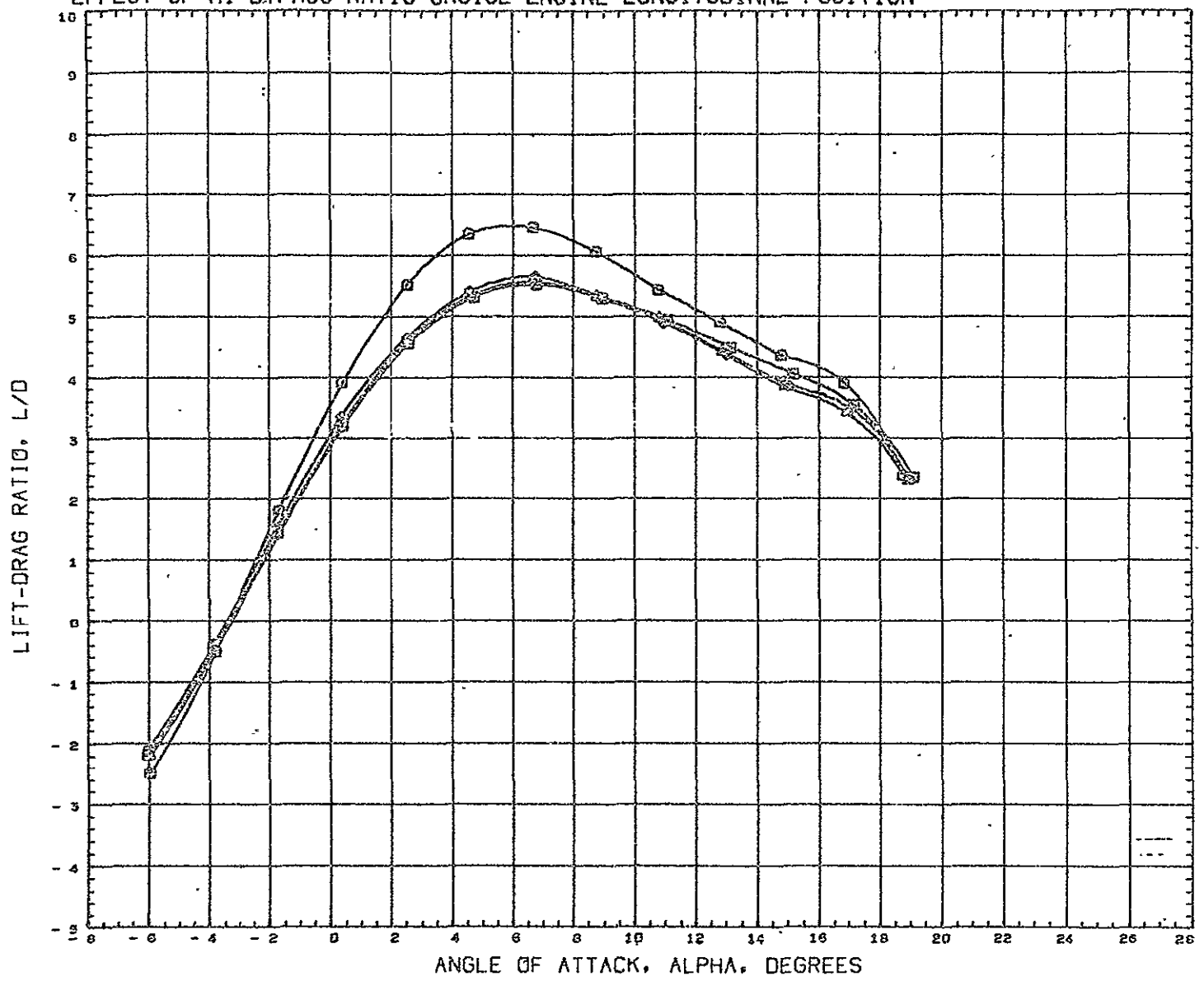
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8003)	□	CVLSWT TEST 580-0 B9W3AT4V4E10
(RC8035)	◇	CVLSWT TEST 580-0 B9W3AT4V4E13
(RC8033)	△	CVLSWT TEST 580-0 B9W3AT4V4E27

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8003)	□	CVLSWT TEST 580-0 B9W3AT4V4E10
(RC8055)	◇	CVLSWT TEST 580-0 B9W3AT4V4E13
(RC8033)	△	CVLSWT TEST 580-0 B9W3AT4V4E27

MACH 0.259

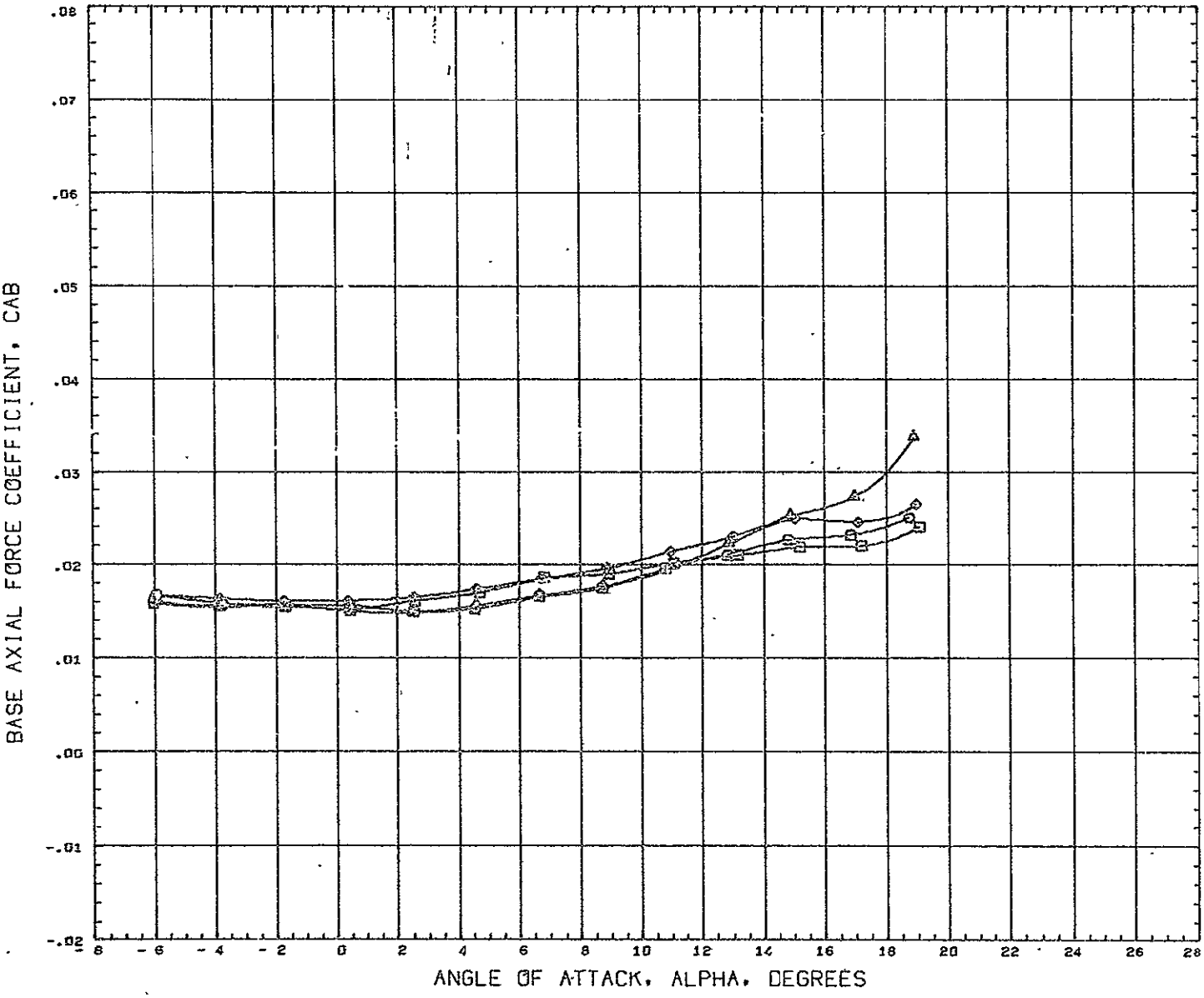
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SFOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8003)	□	CVLSWT TEST 580-0 B9W3AT4V4E10
(RC8055)	◇	CVLSWT TEST 580-0 B9W3AT4V4E13
(RC8033)	△	CVLSWT TEST 580-0 B9W3AT4V4E27

MACH 0.259

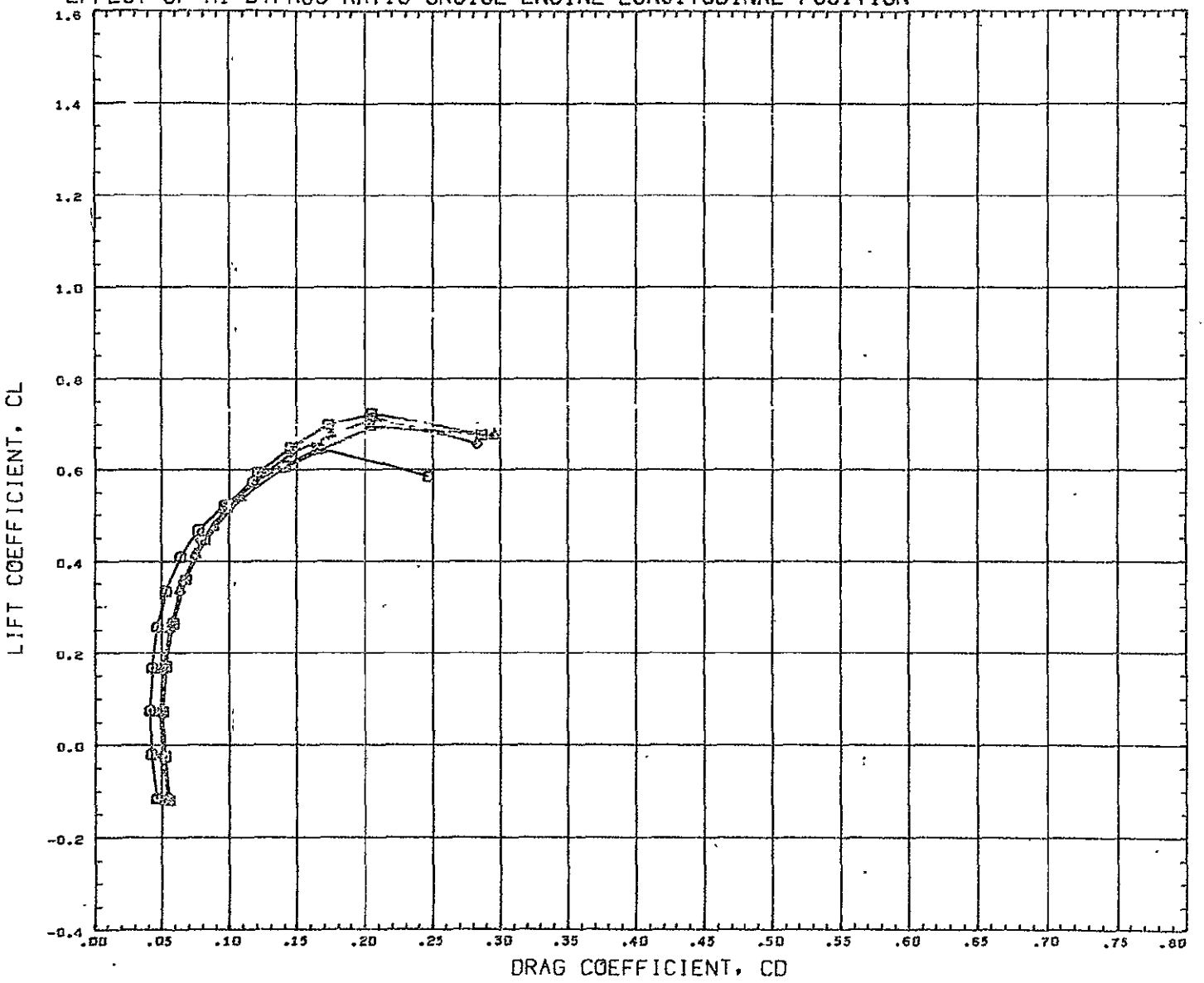
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE LONGITUDINAL POSITION

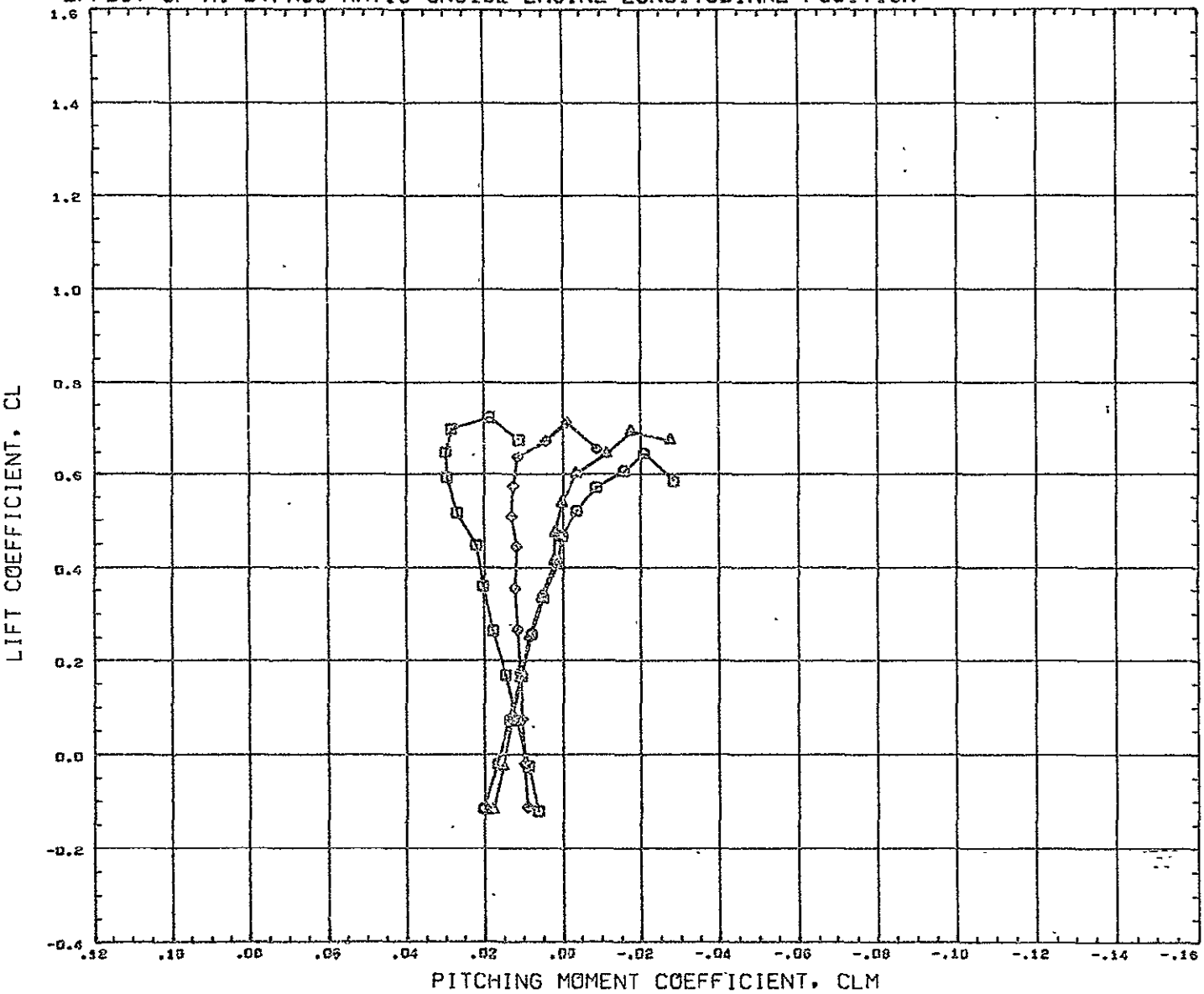


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8003)	□	CVLSWT TEST 580-0 B9W3AT4V4E10
(RC8035)	◇	CVLSWT TEST 580-0 B9W3AT4V4E13
(RC8033)	△	CVLSWT TEST 580-0 B9W3AT4V4E27

MACH 0.259

PARAMETRIC VALUES				REFERENCE INFORMATION		
BETA	0.000	ELEVTR	0.000	REFS	316.2304	SQ IN
RUDDER	0.000	FLAPS	0.000	REFL	50.1900	IN
SPOILR	0.000			REFB	7.3500	IN
				XMRP	29.3920	IN
				YMRP	0.0000	IN
				ZMRP	0.0000	IN
				SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8003)	□	CVLSWT TEST 580-0 B9W3AT4V4E10
(RC8055)	◇	CVLSWT TEST 580-0 B9W3AT4V4E13
(RC8033)	△	CVLSWT TEST 580-0 B9W3AT4V4E27

MACH 0.259

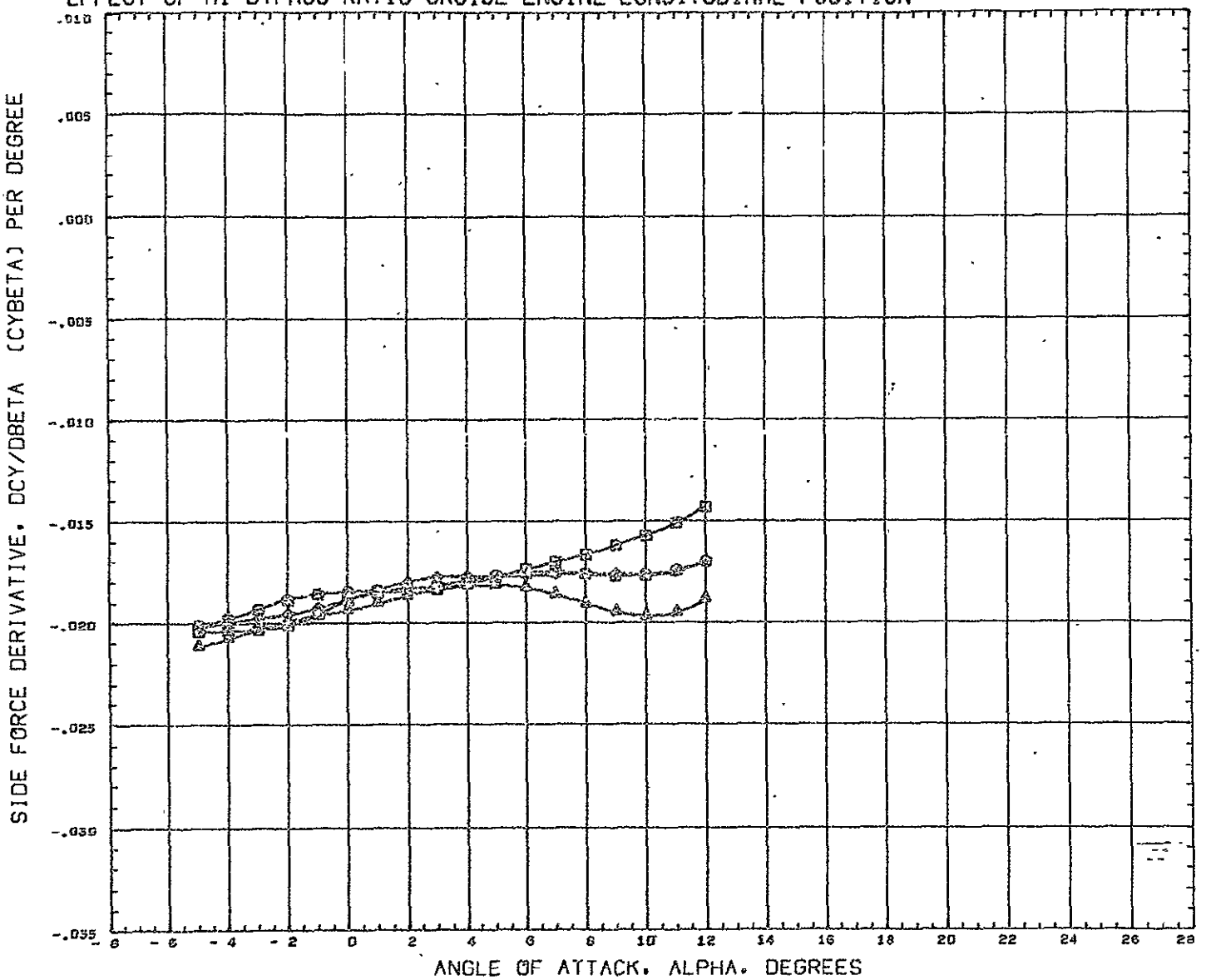
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PC8064)	○	CVLSWT TEST 580-0 B9W3AT4V4
(PC8004)	□	CVLSWT TEST 580-0 B9W3AT4V4E10
(PC8036)	◇	CVLSWT TEST 580-0 B9W3AT4V4E13
(PC8034)	△	CVLSWT TEST 580-0 B9W3AT4V4E27

MACH 0.259

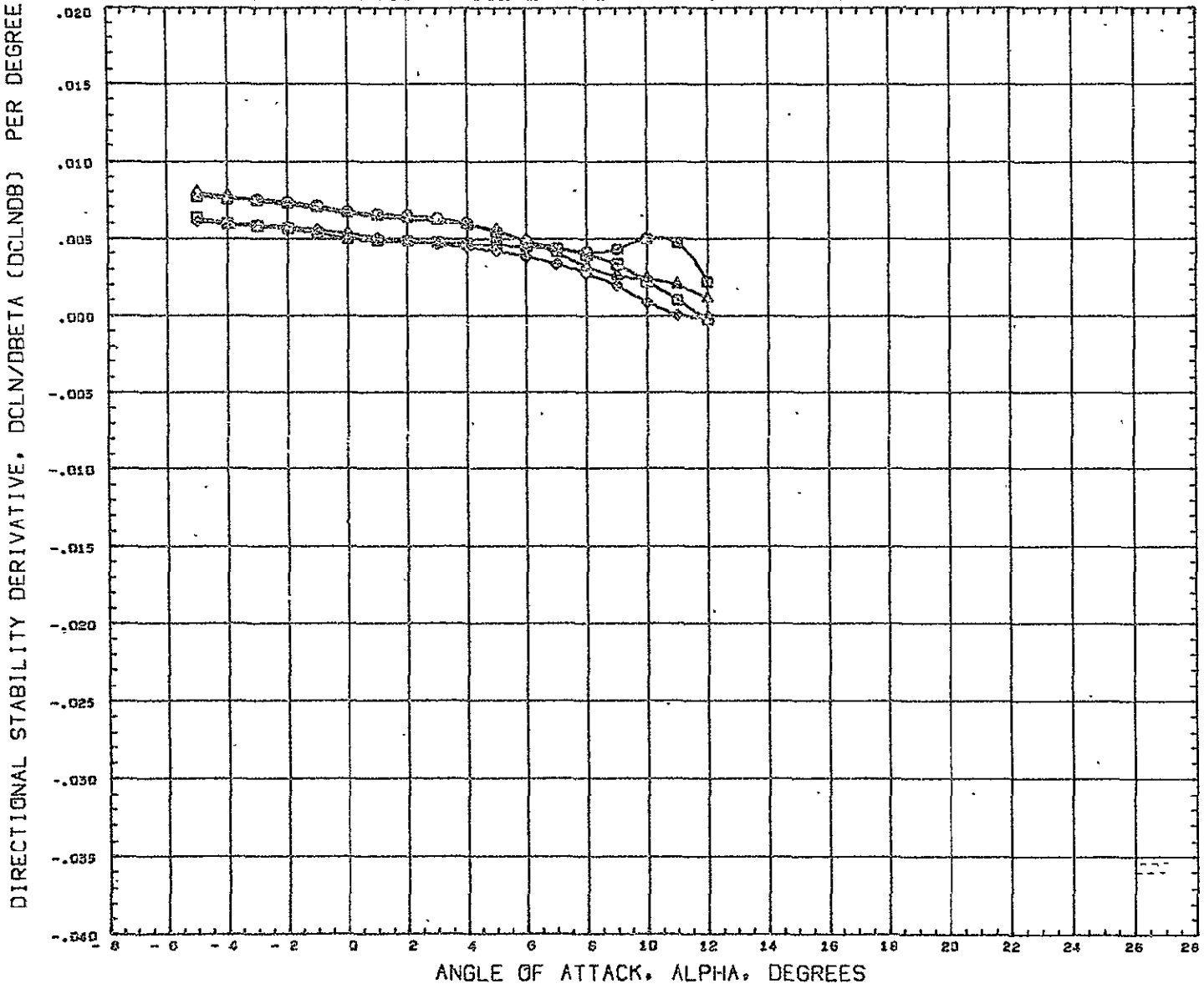
PARAMETRIC VALUES

BETA	-4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	516.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XHRP	29.3920	IN.
YHRP	0.0000	IN
ZHRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE LONGITUDINAL POSITION

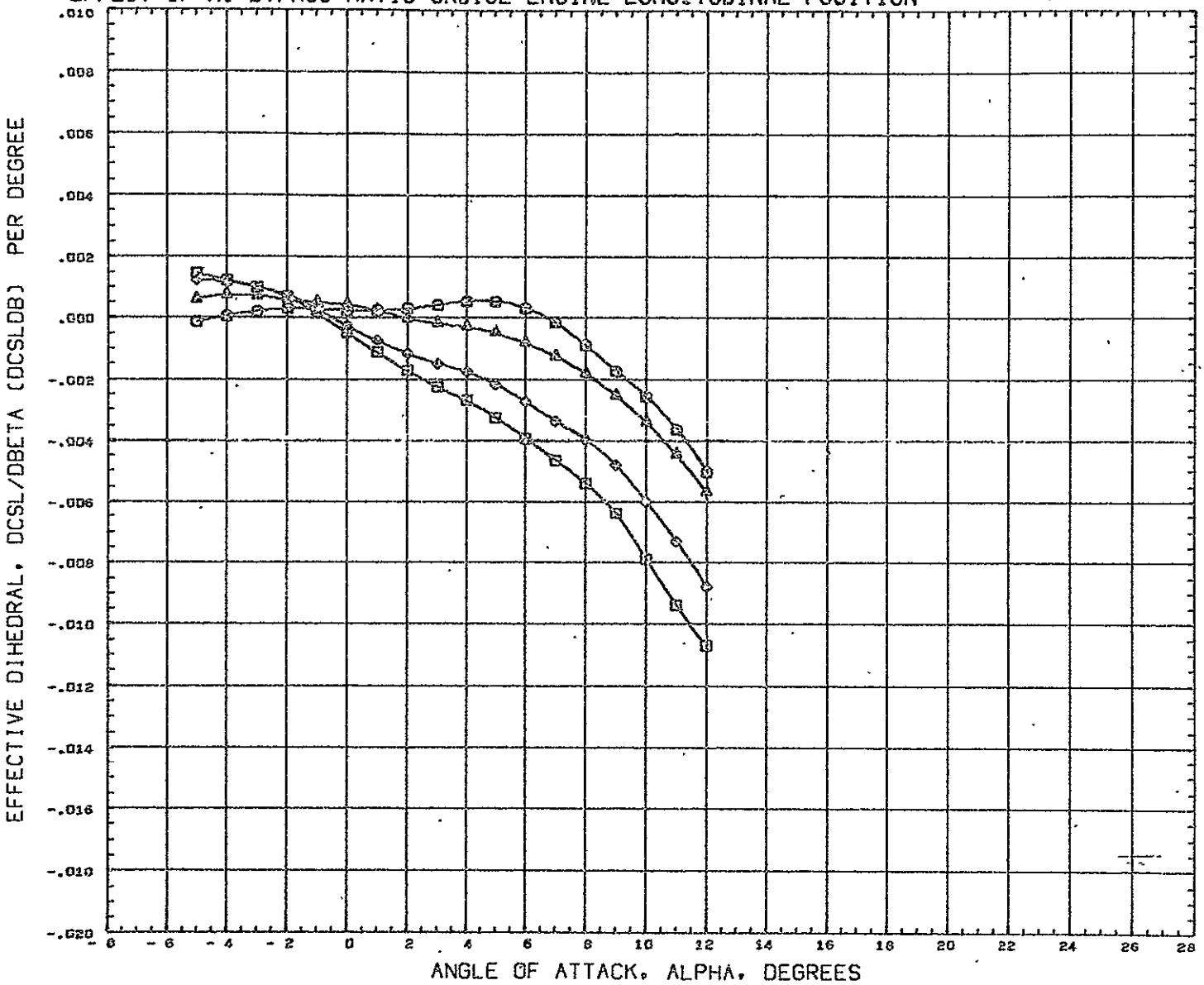


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(PC0054)	□	CVLSWT TEST 580-0 B9W3AT4V4
(PC0004)	□	CVLSWT TEST 580-0 B9W3AT4V4E10
(PC0056)	◇	CVLSWT TEST 580-0 B9W3AT4V4E13
(PC0034)	△	CVLSWT TEST 580-0 B9W3AT4V4E27

MACH 0.259

PARAMETRIC VALUES				REFERENCE INFORMATION		
BETA	- 4.000	ELEVTR	0.000	REFS	316.2304	SQ IN
RUDDER	0.000	FLAPS	0.000	REFL	50.1900	IN
SPOILR	0.000			REFB	7.3500	IN
				XMRP	29.3920	IN
				YMRP	0.0000	IN
				ZMRP	0.0000	IN
				SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINE LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PC8064)	□	CVLSWT TEST 580-0 B9W3AT4V4
(PC8004)	□	CVLSWT TEST 580-0 B9W3AT4V4E10
(PC8056)	◇	CVLSWT TEST 580-0 B9W3AT4V4E13
(PC8034)	△	CVLSWT TEST 580-0 B9W3AT4V4E27

MACH 0.259

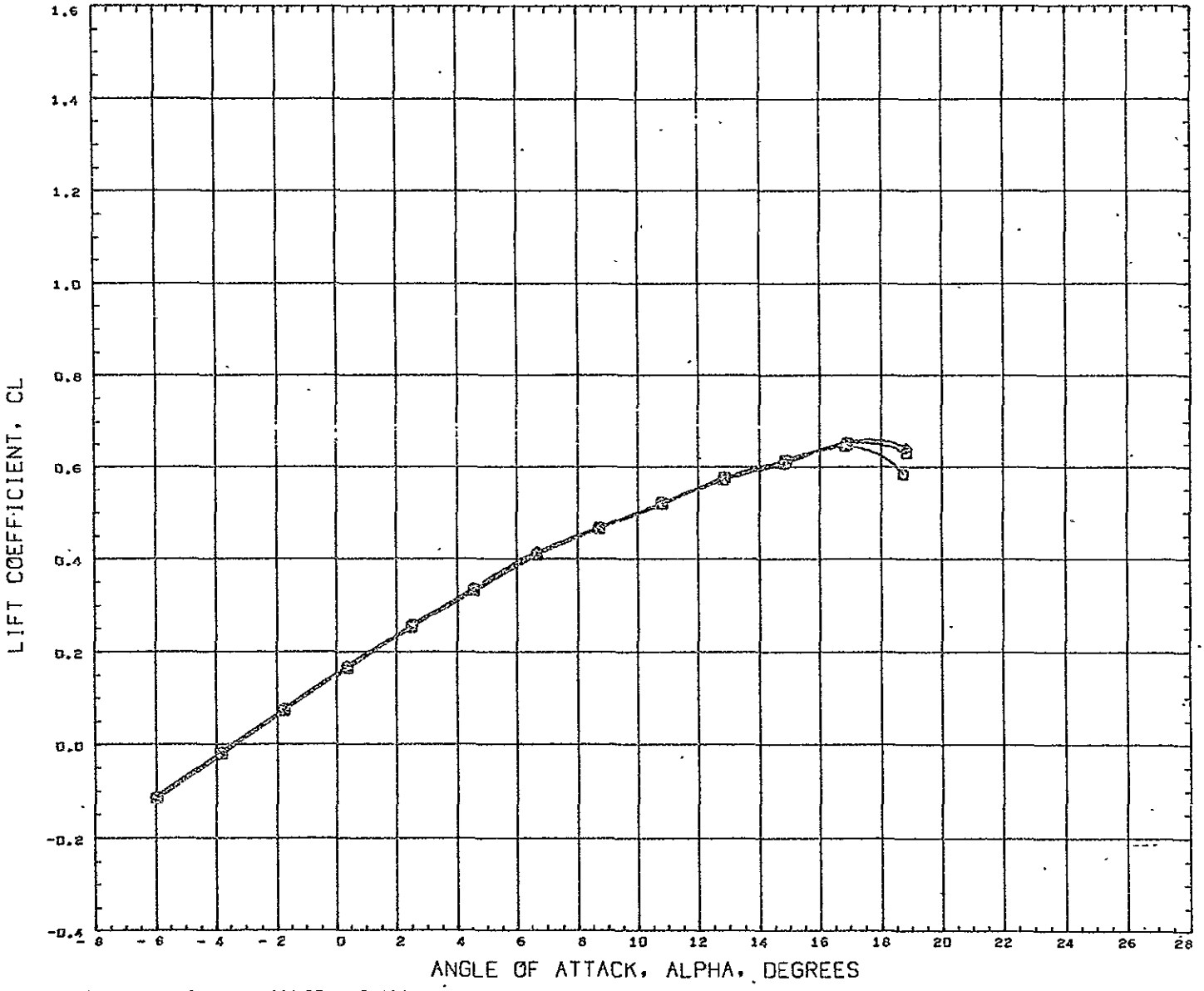
PARAMETRIC VALUES

BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 560-0 B9W3AT4V4
(RC8008)	□	CVLSWT TEST 560-0 B9W3AT4V4E12
(RC8039)	◇	CVLSWT TEST 560-0 B9W3AT4V4E28

MACH 0.259

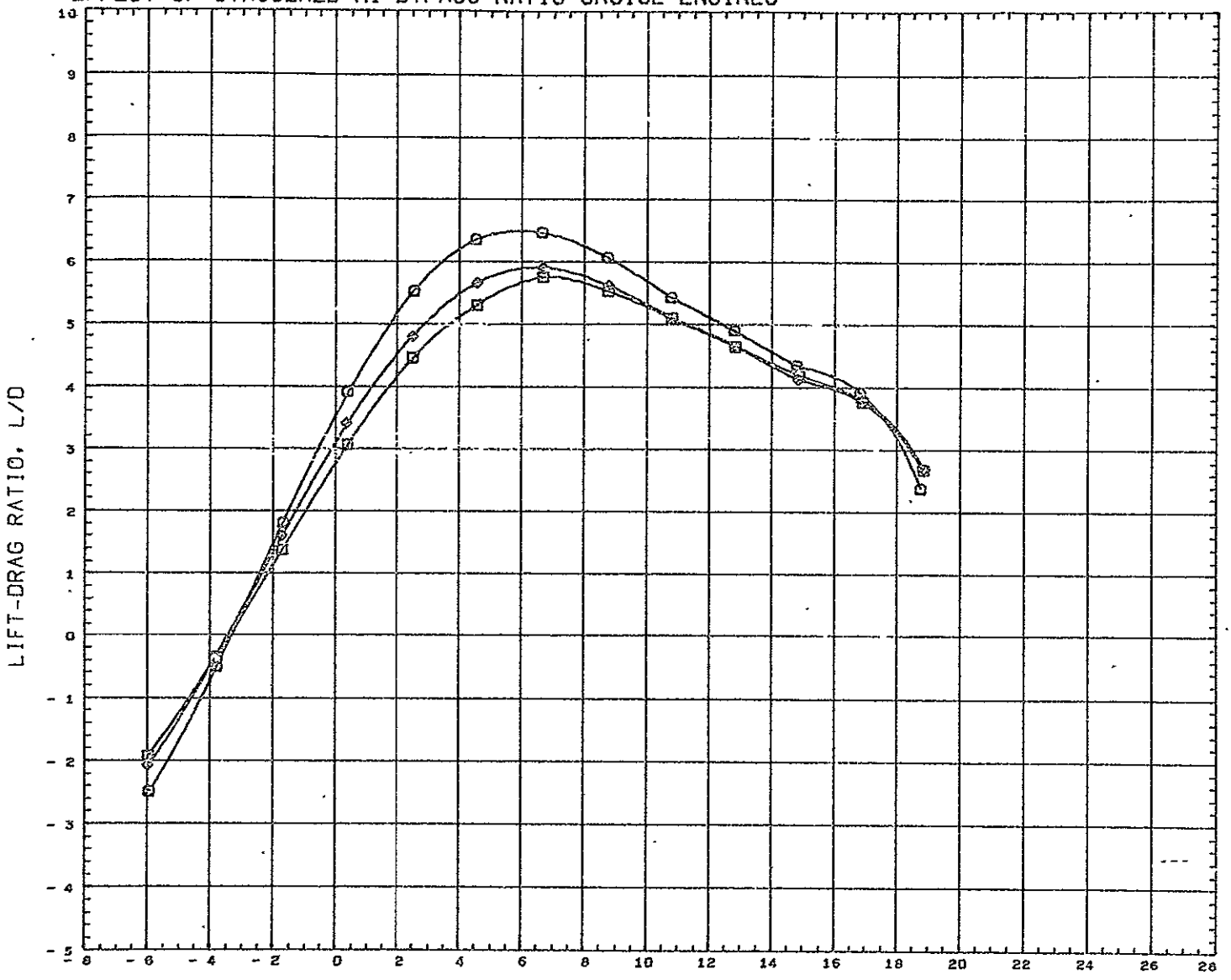
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



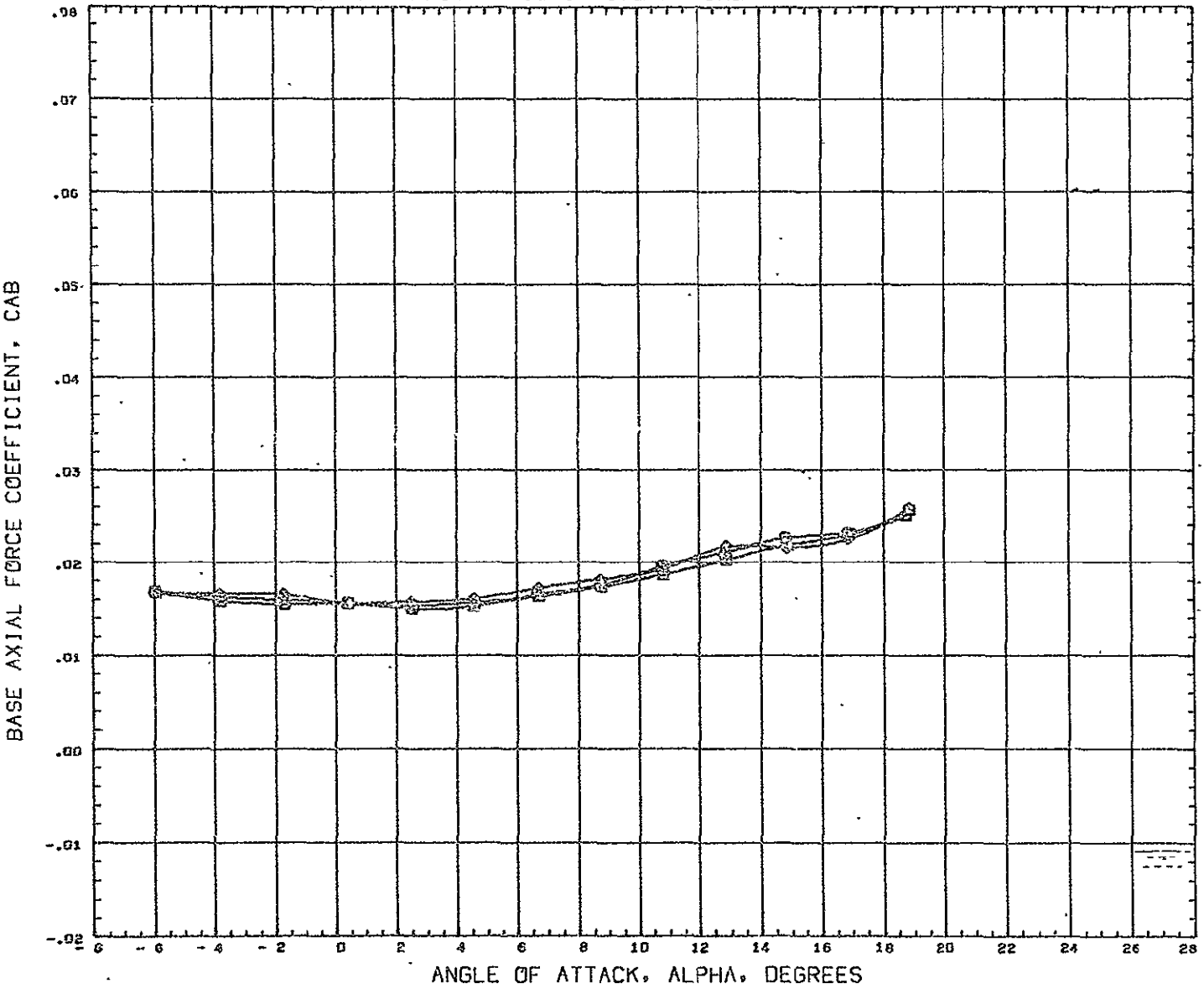
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8006)	□	CVLSWT TEST 580-0 B9W3AT4V4E12
(RC8039)	◇	CVLSWT TEST 580-0 B9W3AT4V4E28

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8008)	□	CVLSWT TEST 580-0 B9W3AT4V4E12
(RC8039)	◇	CVLSWT TEST 580-0 B9W3AT4V4E28

MACH 0.259

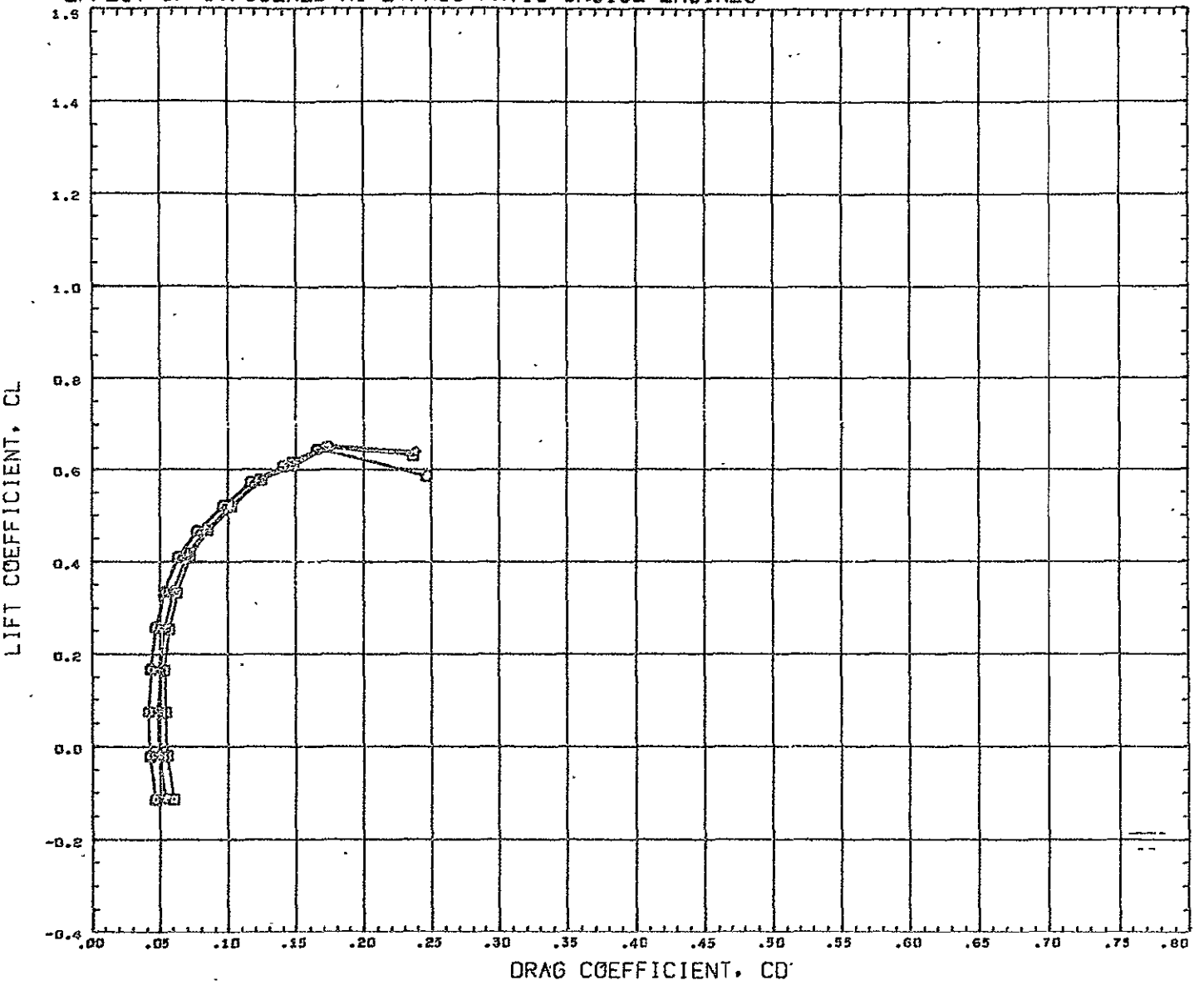
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



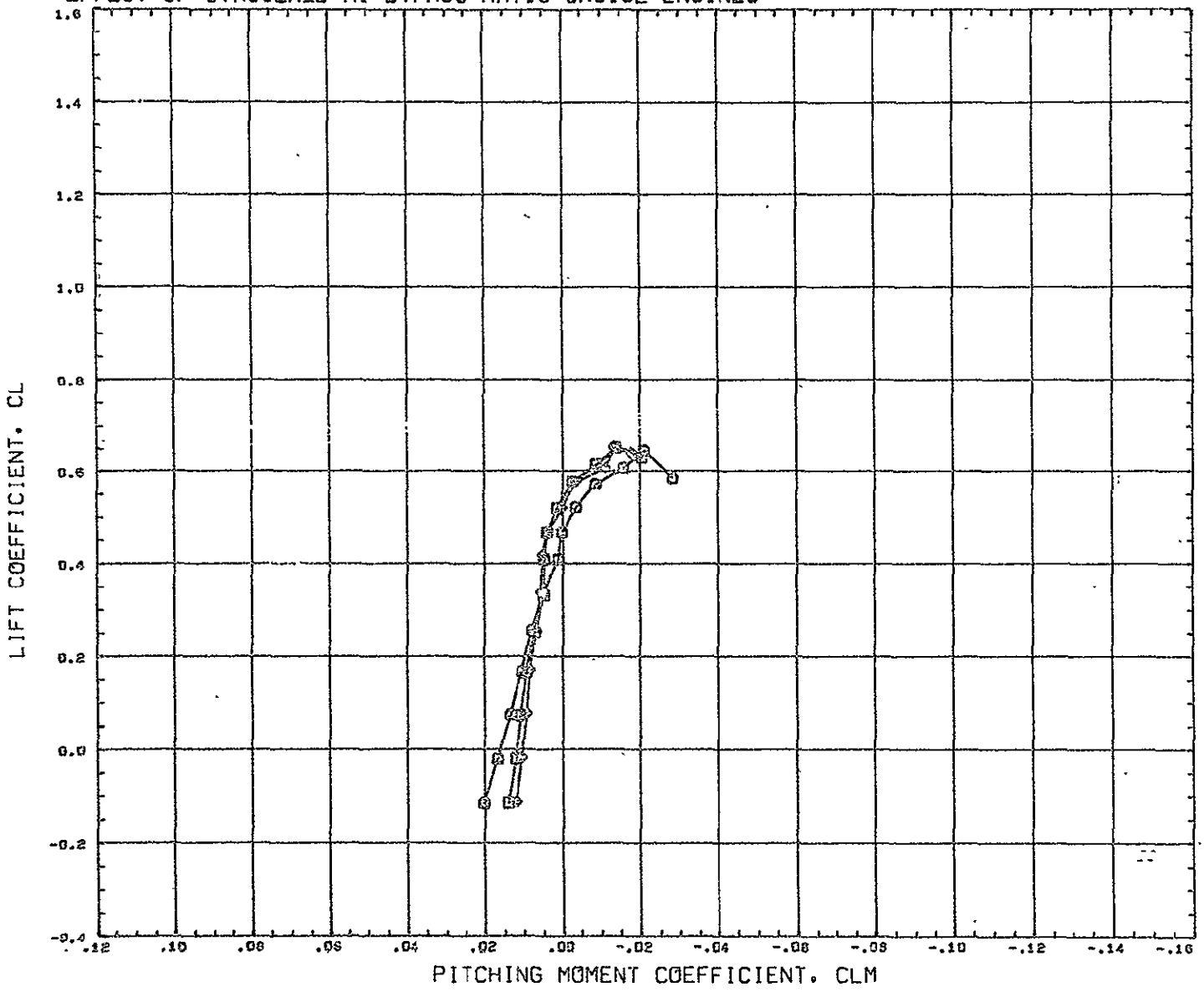
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 89W3AT4V4-
(RC8008)	□	CVLSWT TEST 580-0 89W3AT4V4E12
(RC8039)	◇	CVLSWT TEST 580-0 89W3AT4V4E28

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC0002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC0008)	□	CVLSWT TEST 580-0 B9W3AT4V4E12
(RC0039)	◇	CVLSWT TEST 580-0 B9W3AT4V4E20

PARAMETRIC VALUES

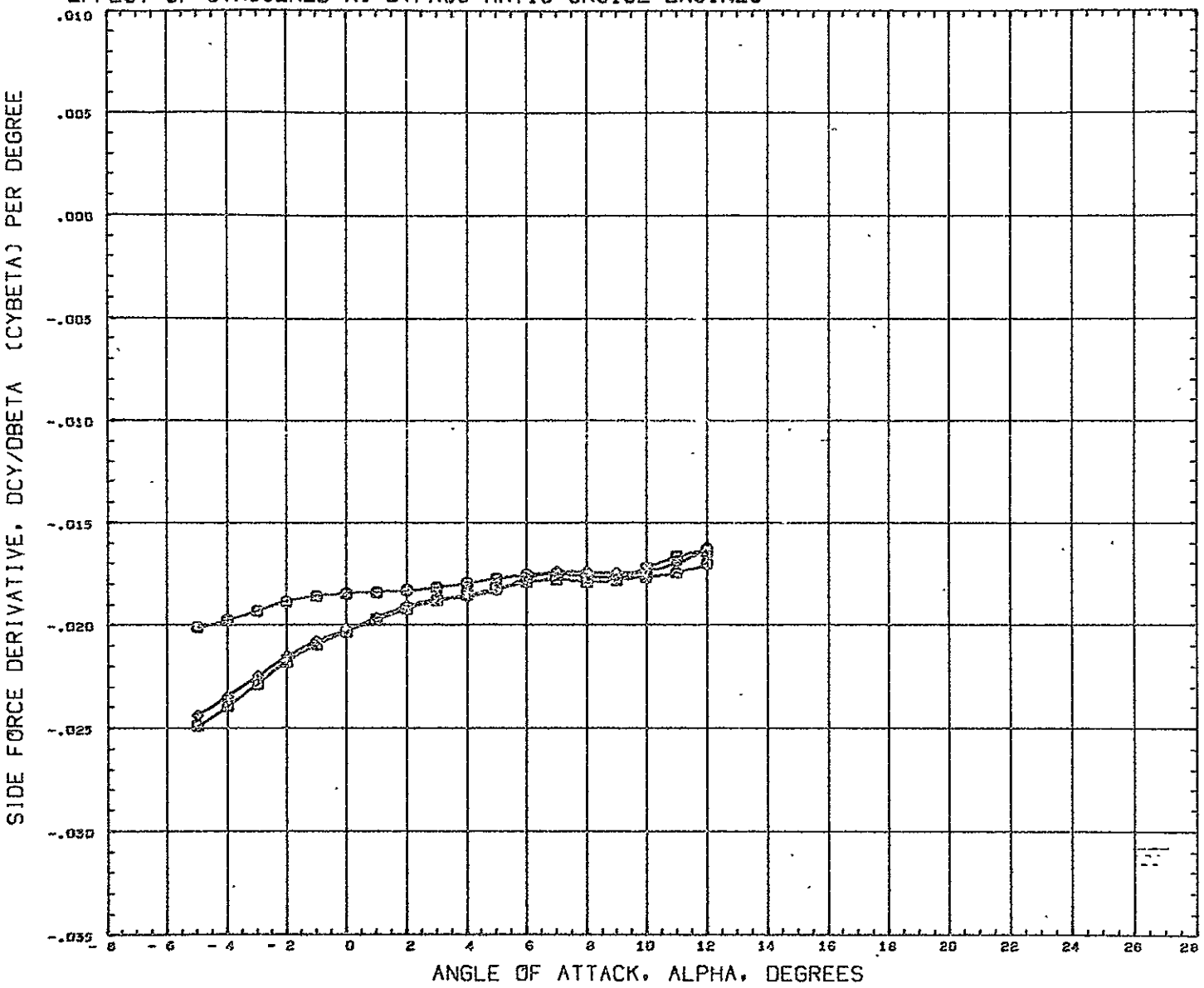
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(PC8006)	○	CVLSWT TEST 580-0 B9W3AT4V4
(PC8009)	□	CVLSWT TEST 580-0 B9W3AT4V4E12
(PC8040)	◇	CVLSWT TEST 580-0 B9W3AT4V4E28

MACH 0.259

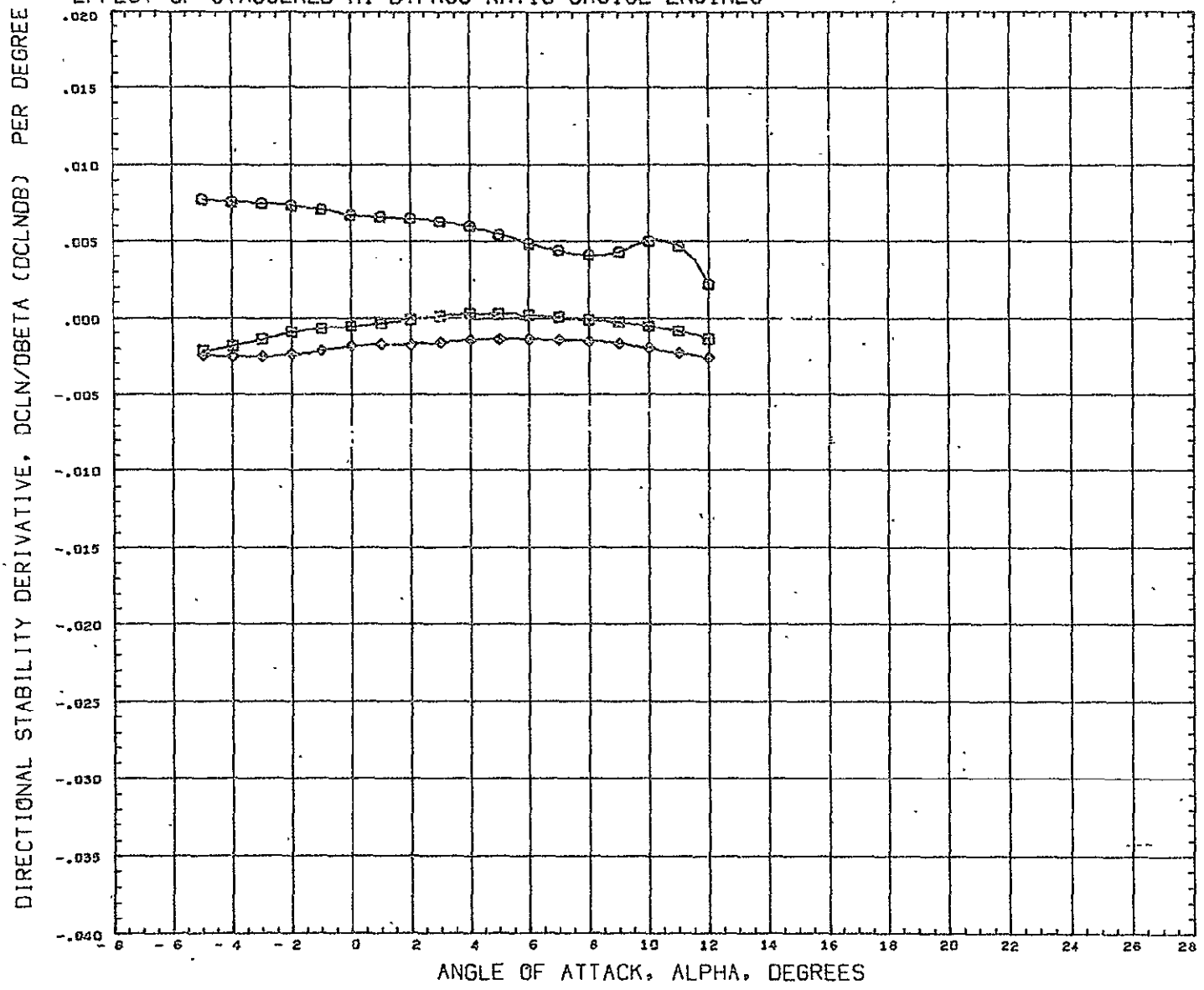
FARAMETRIC VALUES

BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



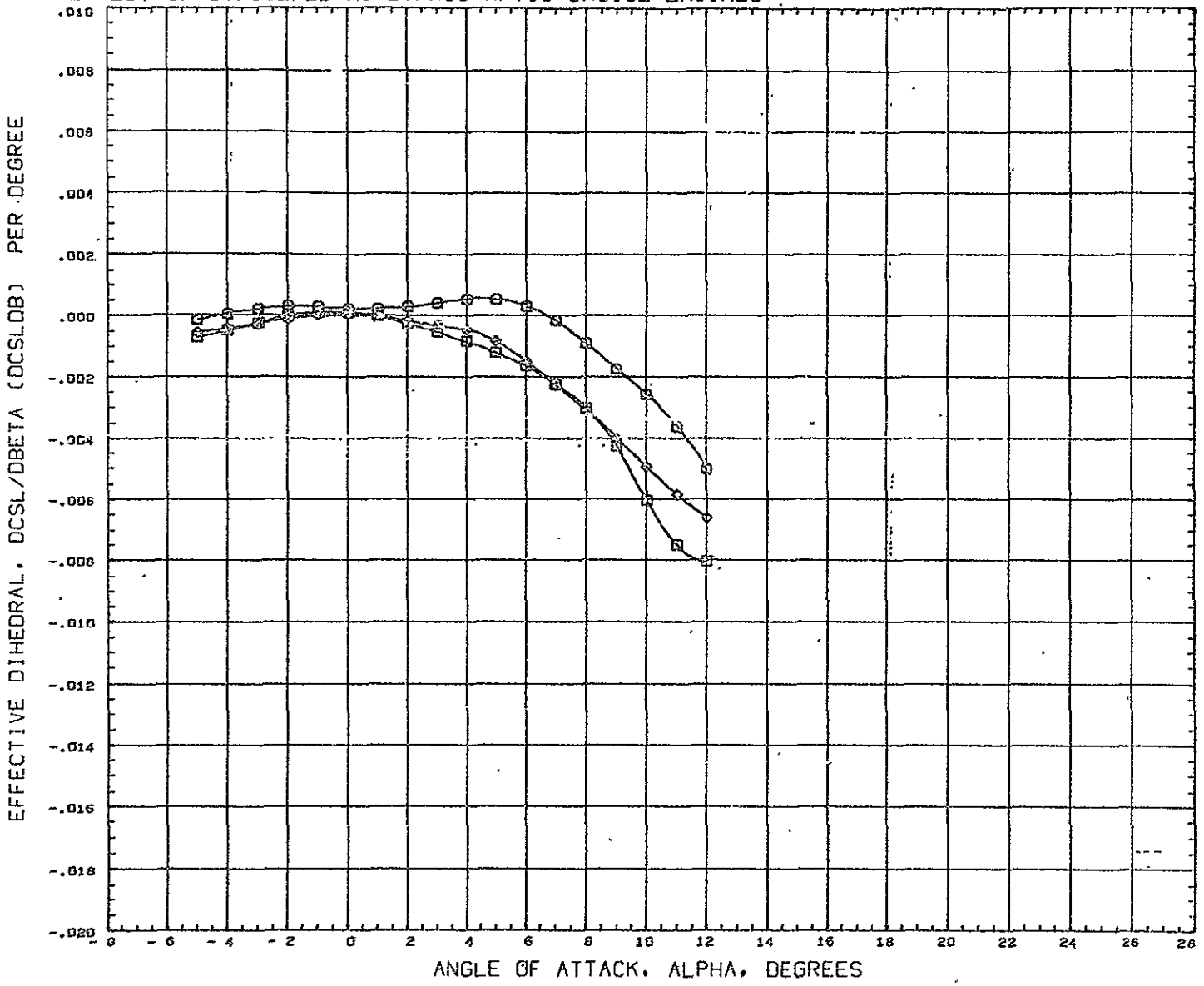
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PC8064)	○	CVLSWT TEST 580-0 B9W3AT4V4
(PC8009)	□	CVLSWT TEST 580-0 B9W3AT4V4E12
(PC8040)	◇	CVLSWT TEST 580-0 B9W3AT4V4E28

MACH 0.259

PARAMETRIC VALUES			
BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



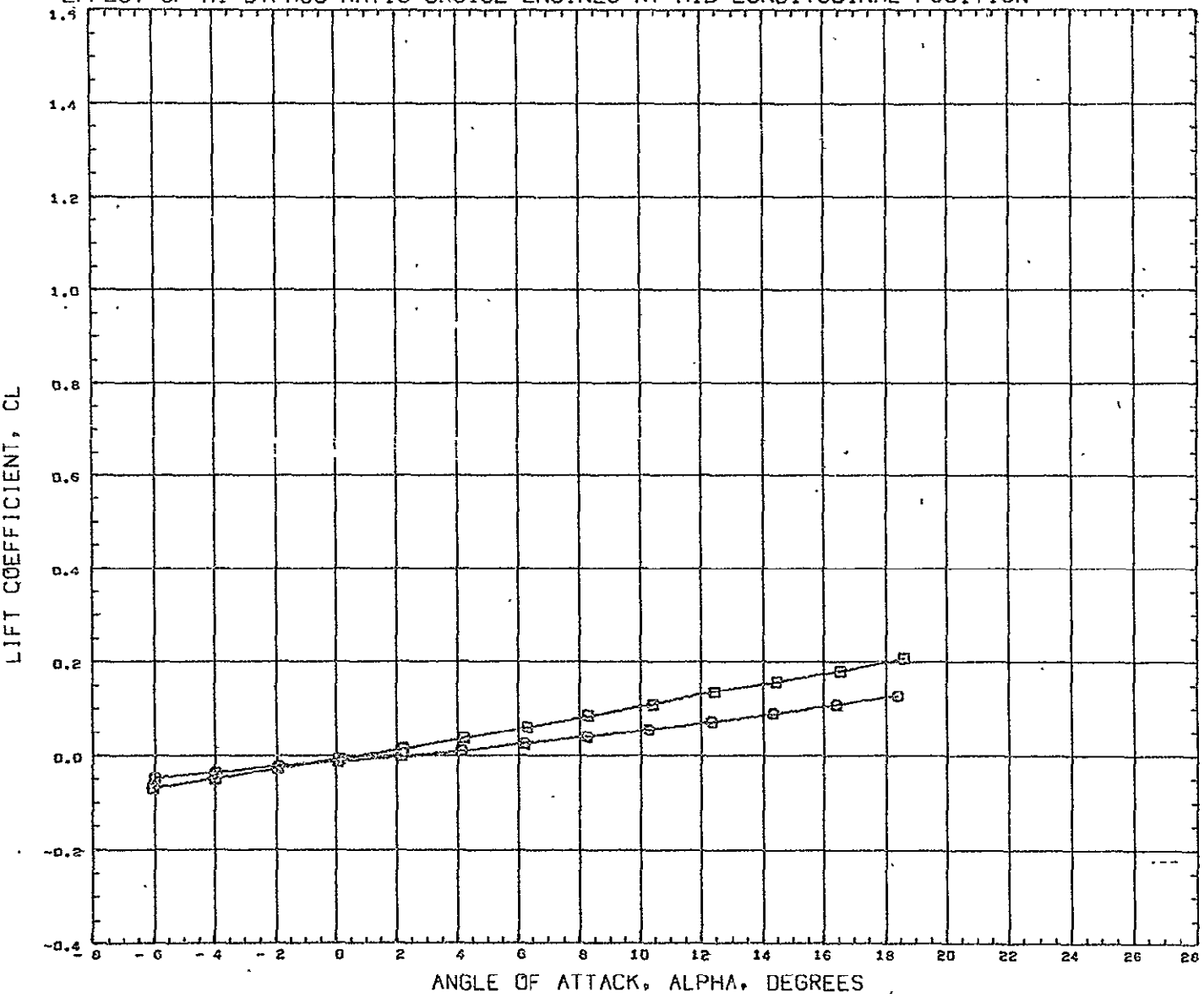
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FC8064)	○	CVLSWT TEST 580-0 B9W3AT4V4
(FC8009)	□	CVLSWT TEST 580-0 B9W3AT4V4E12
(FC8040)	◇	CVLSWT TEST 580-0 B9W3AT4V4E28

MACH 0.259

PARAMETRIC VALUES			
BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8050)	○	CVLSWT TEST 580-0 B9
(RC8049)	□	CVLSWT TEST 580-0 B9E13

PARAMETRIC VALUES

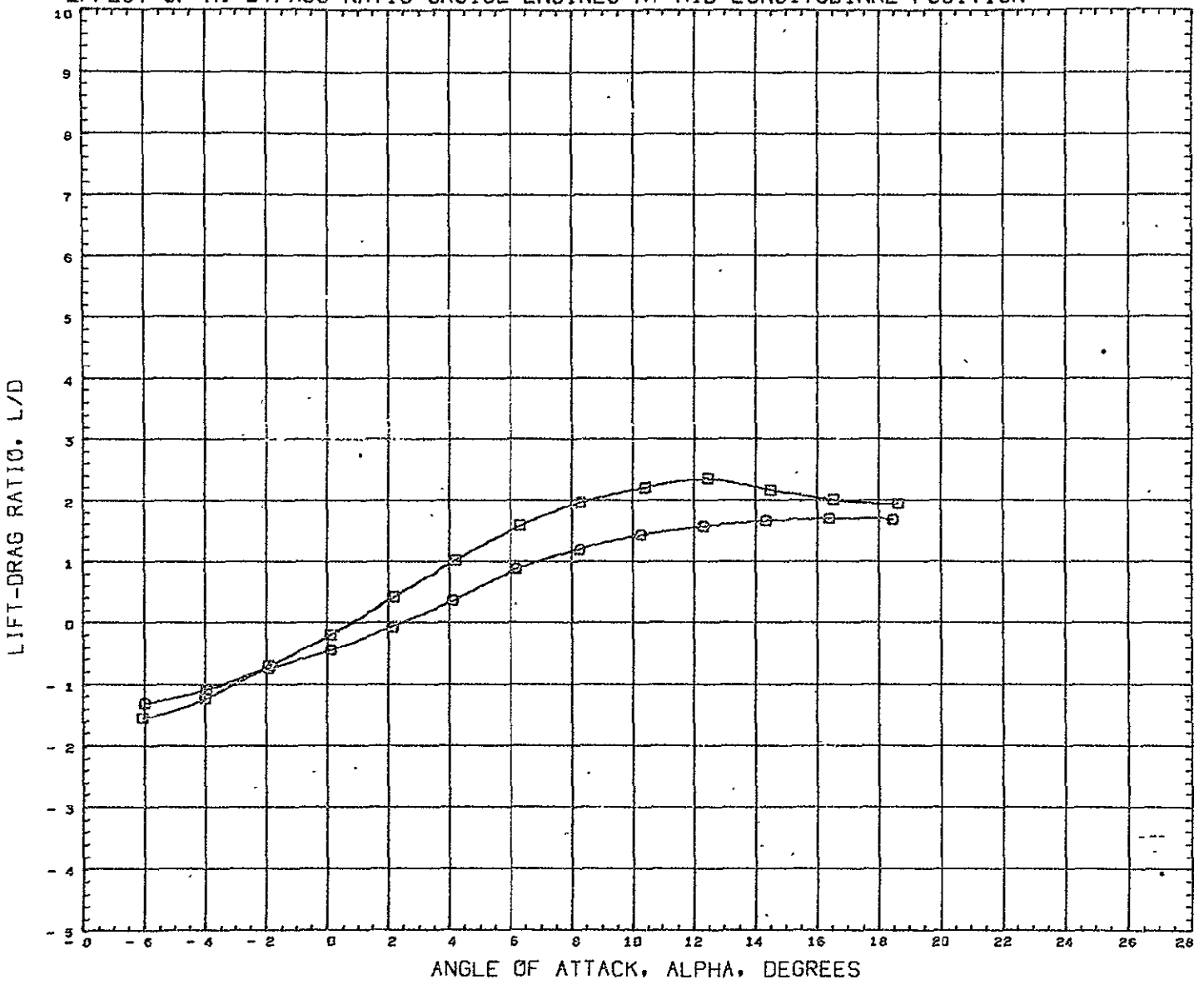
BETA 0.000

NACH 0.259

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8050)	○	CVLSWT TEST 580-0 B9
(RC8049)	□	CVLSWT TEST 580-0 B9E13

PARAMETRIC VALUES

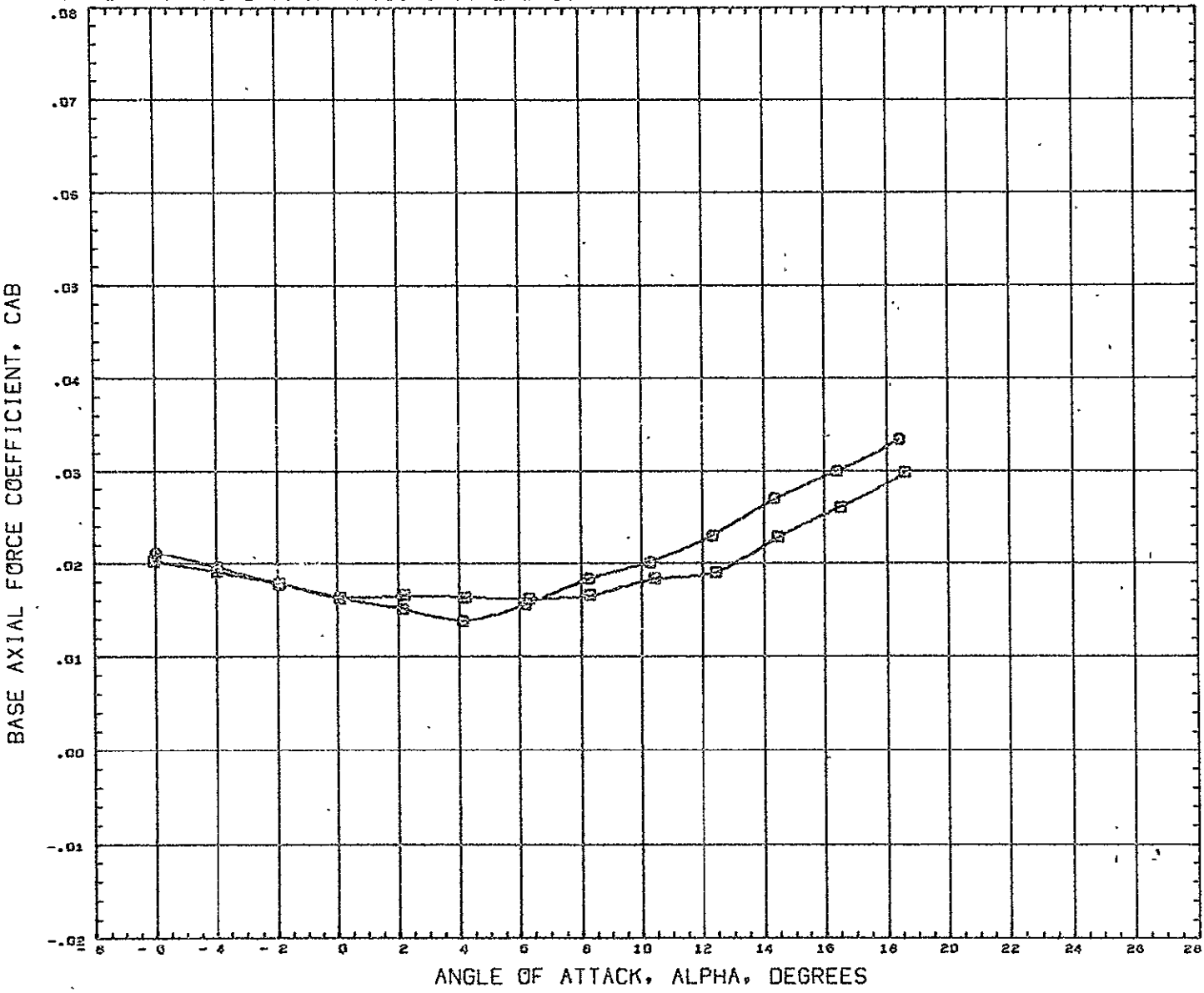
BETA 0.000

MACH 0.259

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8050)	○	CVLSWT TEST 580-0 B9
(RC8049)	□	CVLSWT TEST 580-0 B9E13

PARAMETRIC VALUES

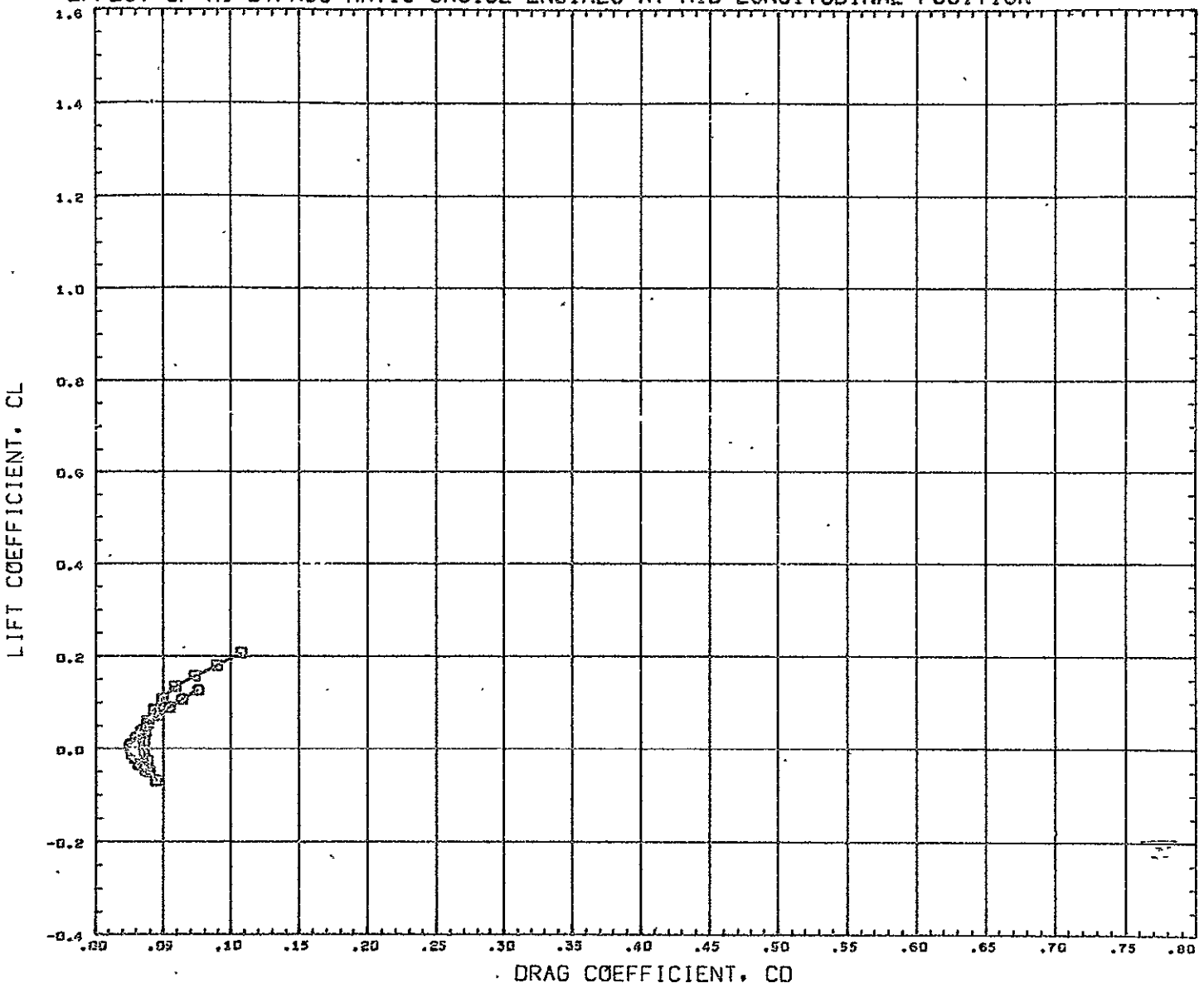
BETA	0.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8050)	O	CVLSWT TEST 580-0 B9
(RC8049)	□	CVLSWT TEST 580-0 B9E13

PARAMETRIC VALUES

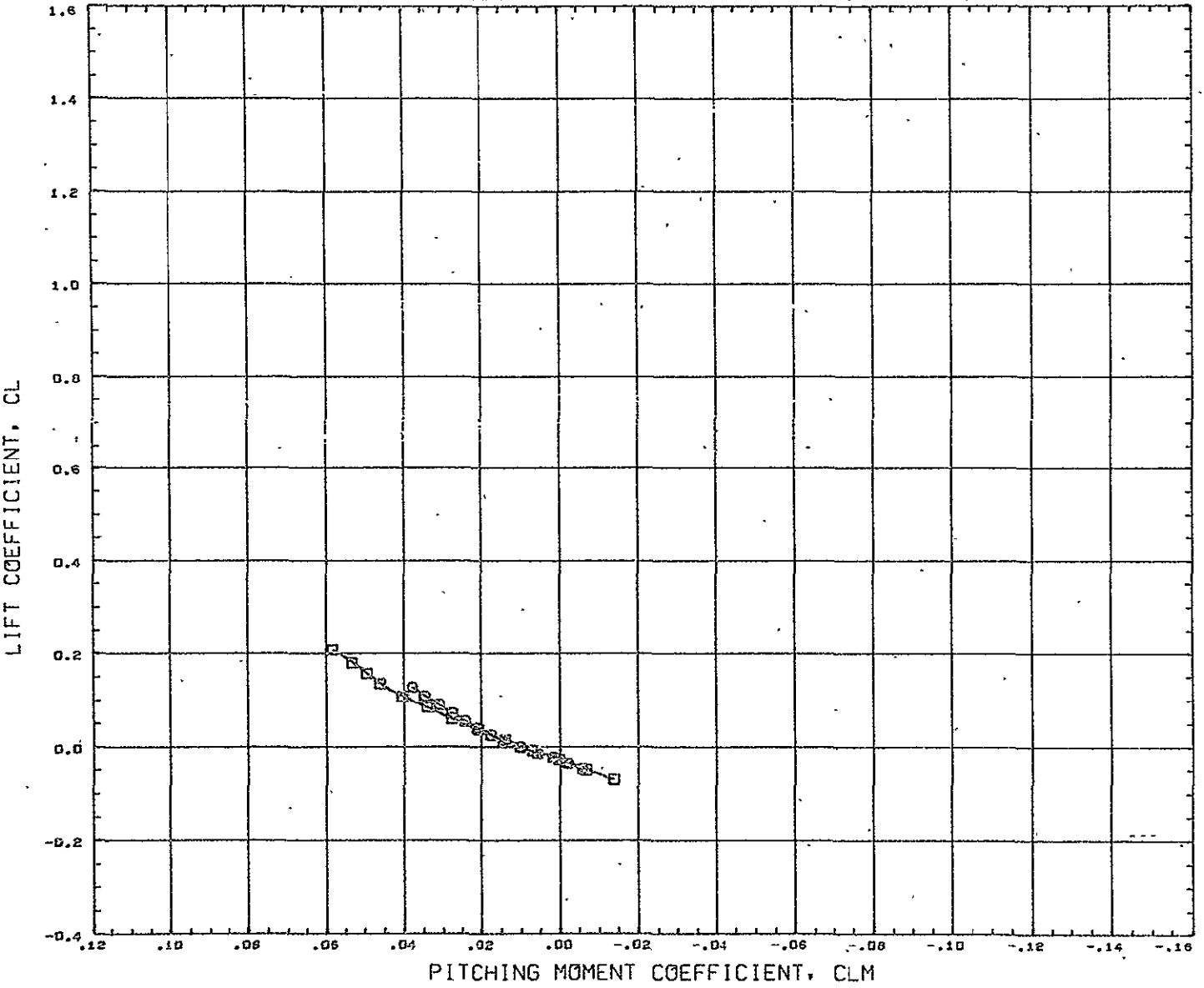
BETA	0.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8050)	○	CVLSWT TEST 580-0 B9
(RC8049)	□	CVLSWT TEST 580-0 B9E13

PARAMETRIC VALUES

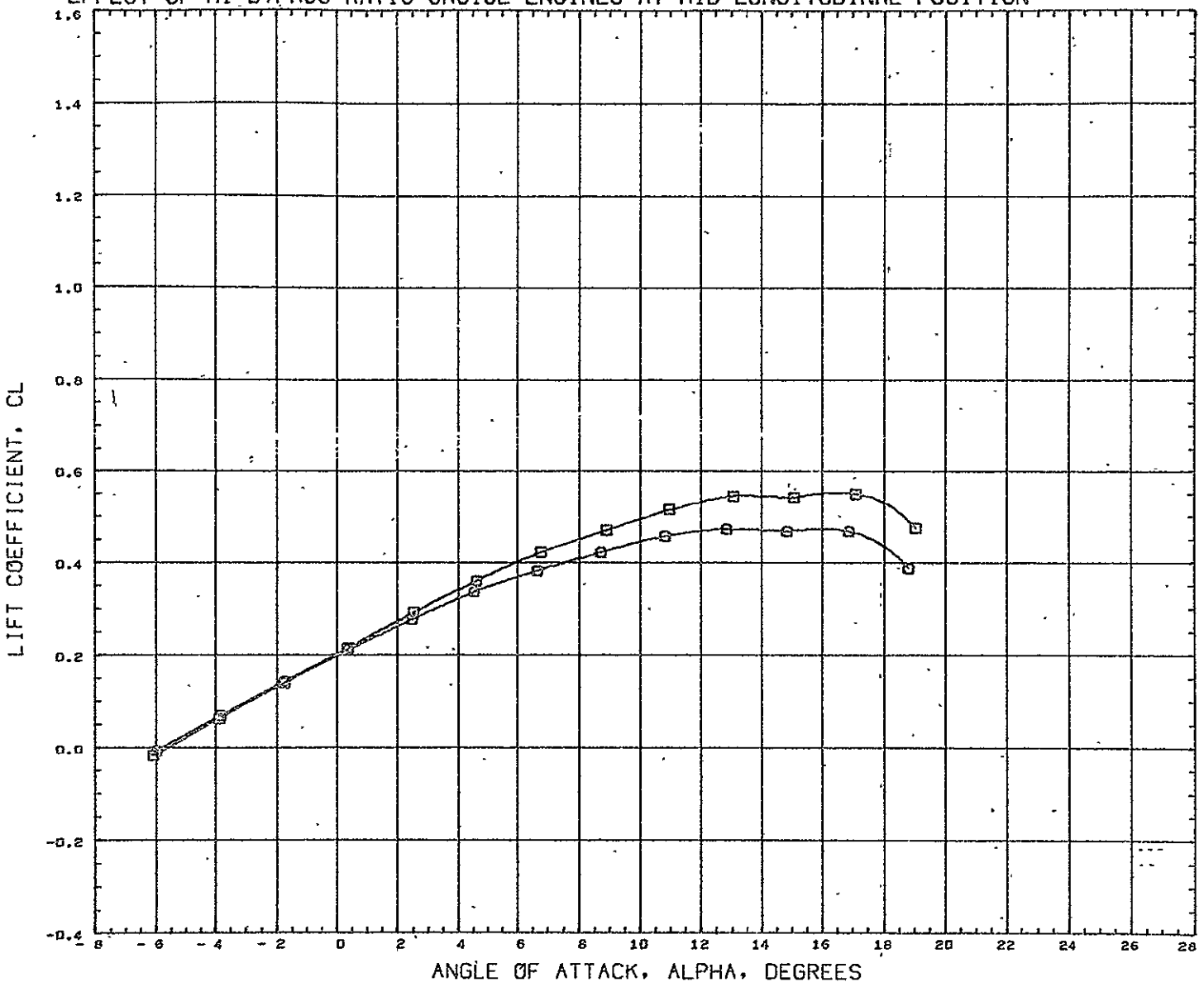
BETA	0.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1990	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8001)	○	CVLSWT TEST 580-0 B9W3A
(RC8048)	□	CVLSWT TEST 580-0 B9W3AE13

MACH 0.259

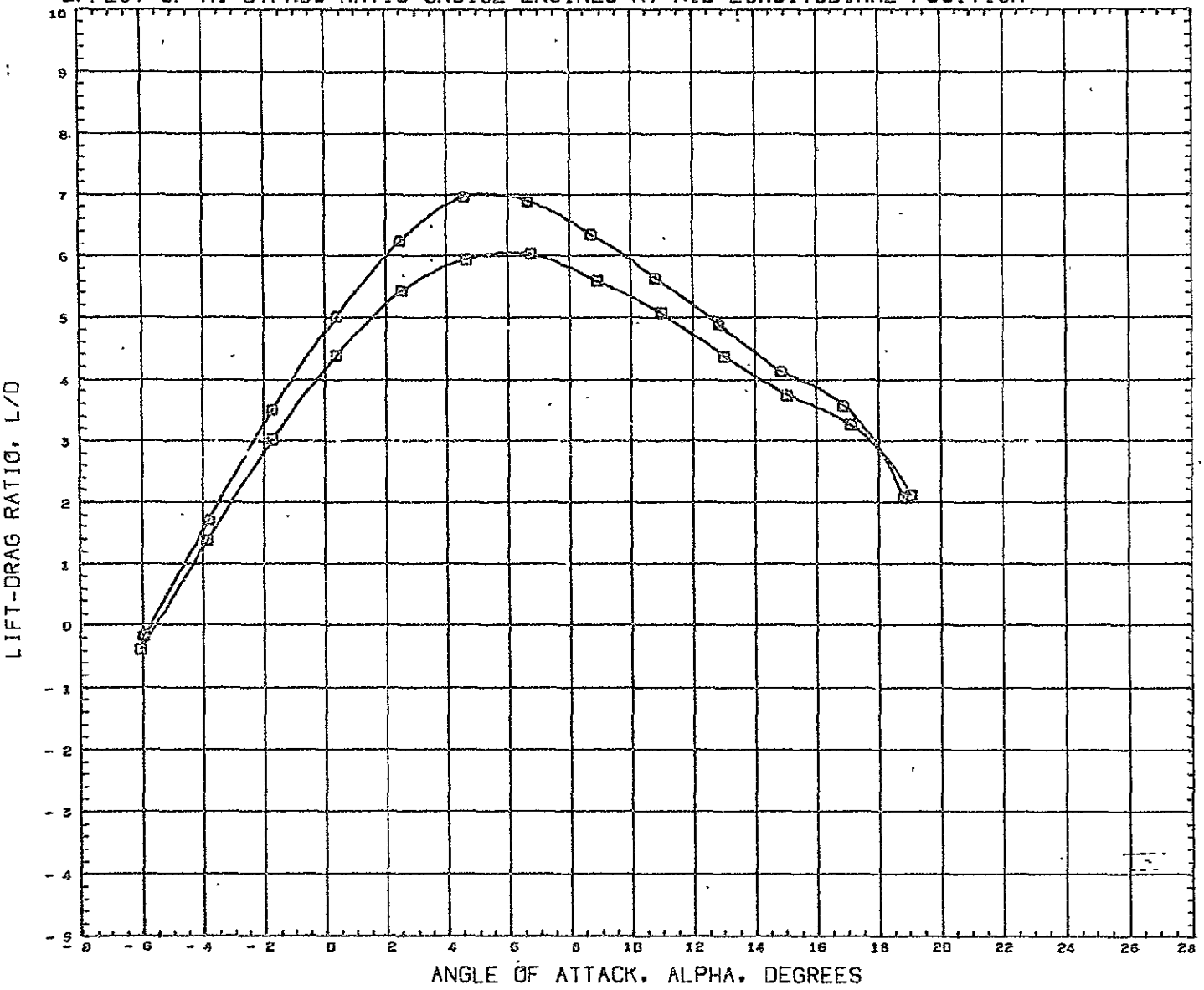
PARAMETRIC VALUES

BETA	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8001)	○	CVLSWT TEST 580-0 B9W3A
(RC8048)	□	CVLSWT TEST 580-0 B9W3AE13

PARAMETRIC VALUES

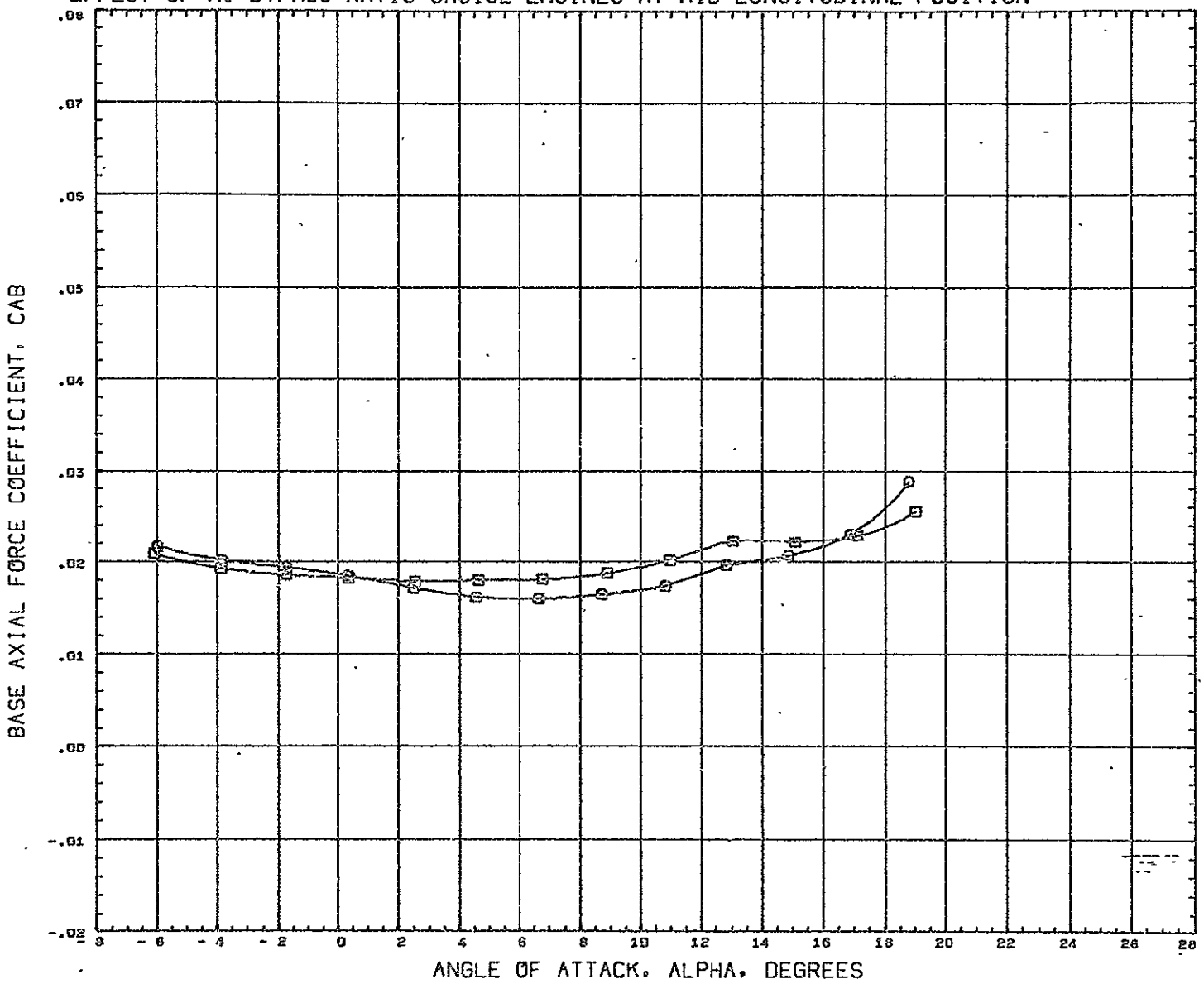
BETA	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.239

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8001)	○	CVLSWT TEST 580-0 B9W3A
(RC8048)	□	CVLSHT TEST 580-0 B9W3AE15

PARAMETRIC VALUES

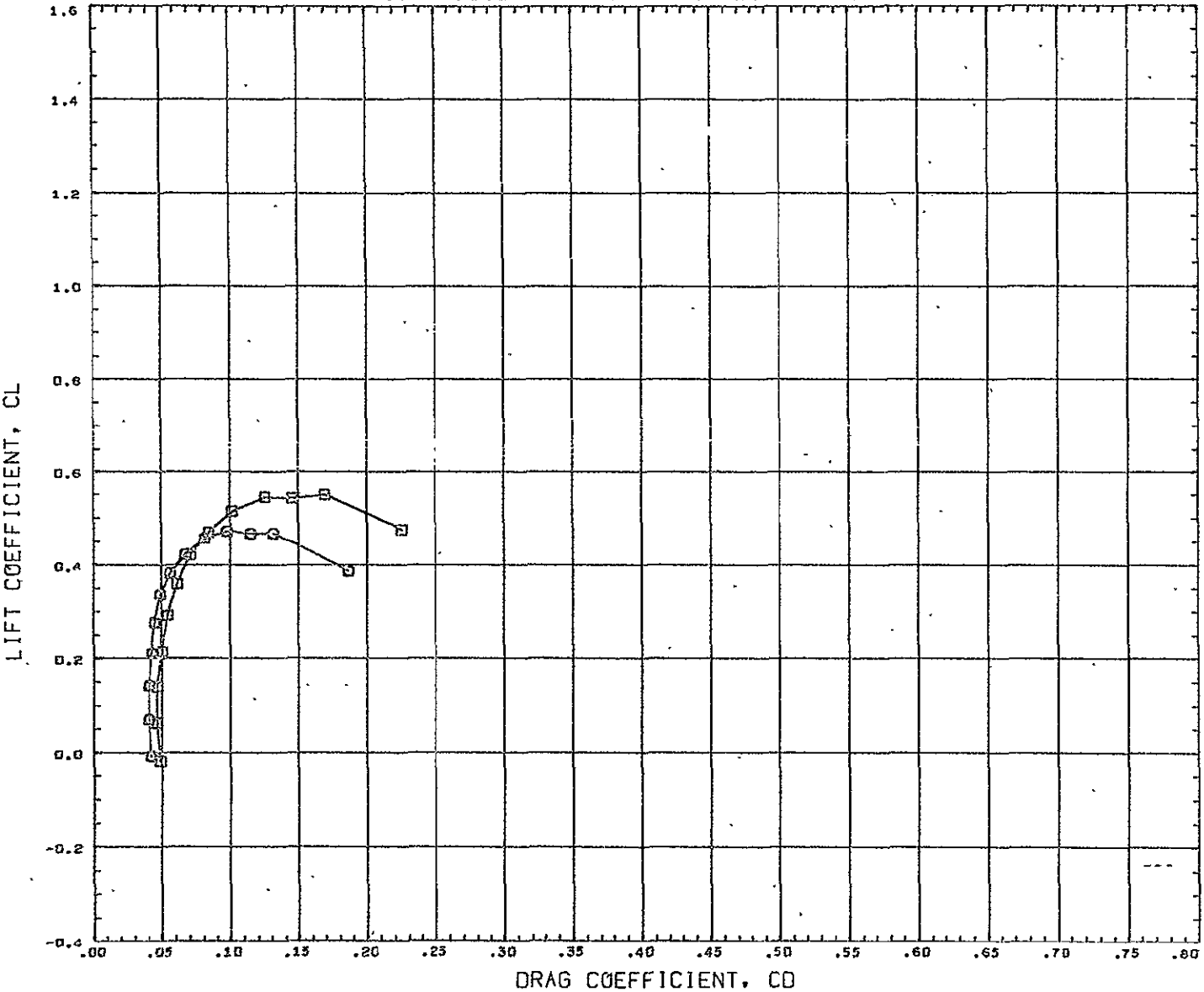
BETA	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8001)	○	CVLSWT TEST 580-0 B9W3A
(RC8048)	□	CVLSWT TEST 580-0 B9W3AE13

PARAMETRIC VALUES

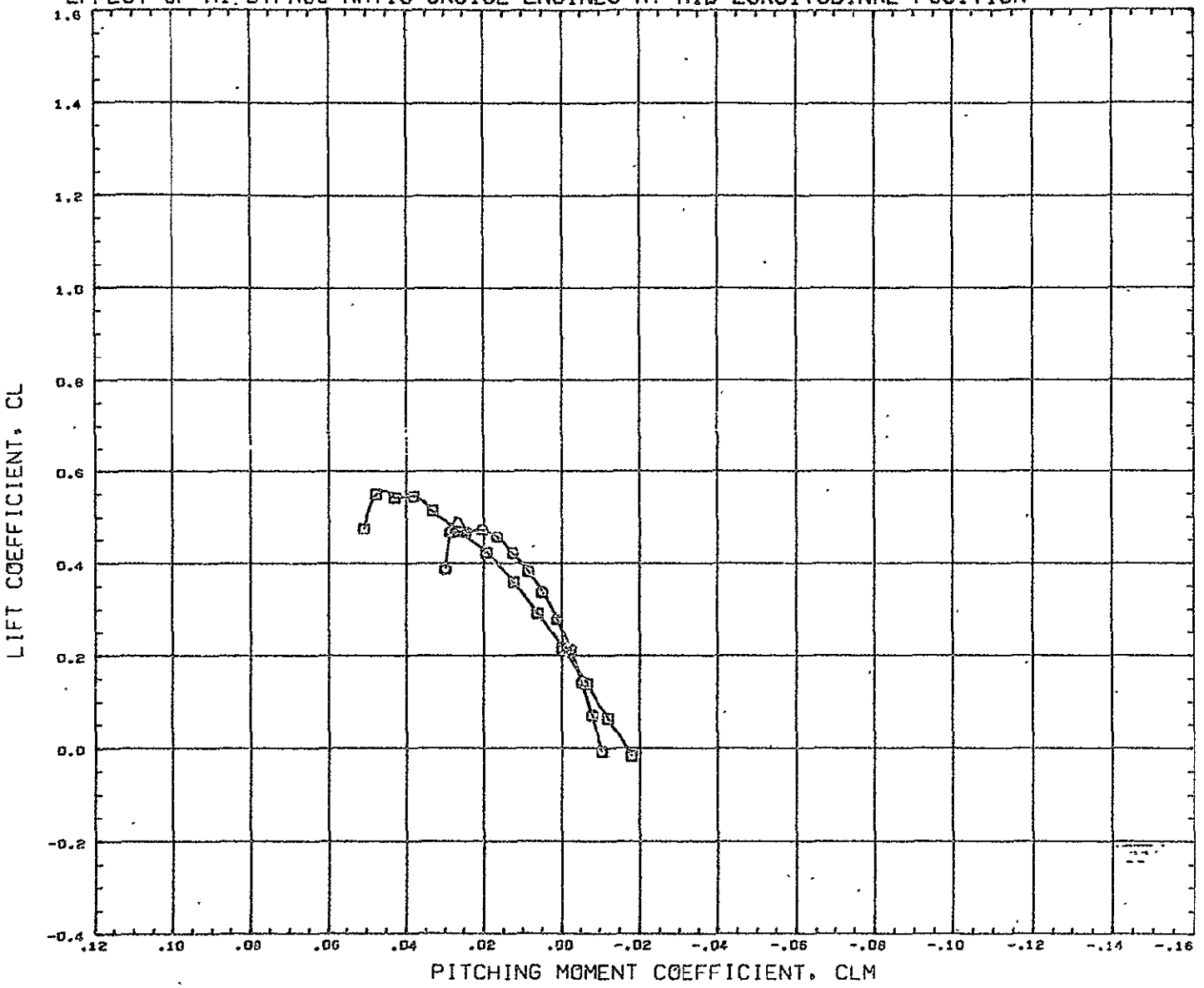
BETA	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8001)	O	CVLSWT TEST 580-0 B9W3A
(RC8048)	□	CVLSWT TEST 580-0 B9W3AE13

PARAMETRIC VALUES

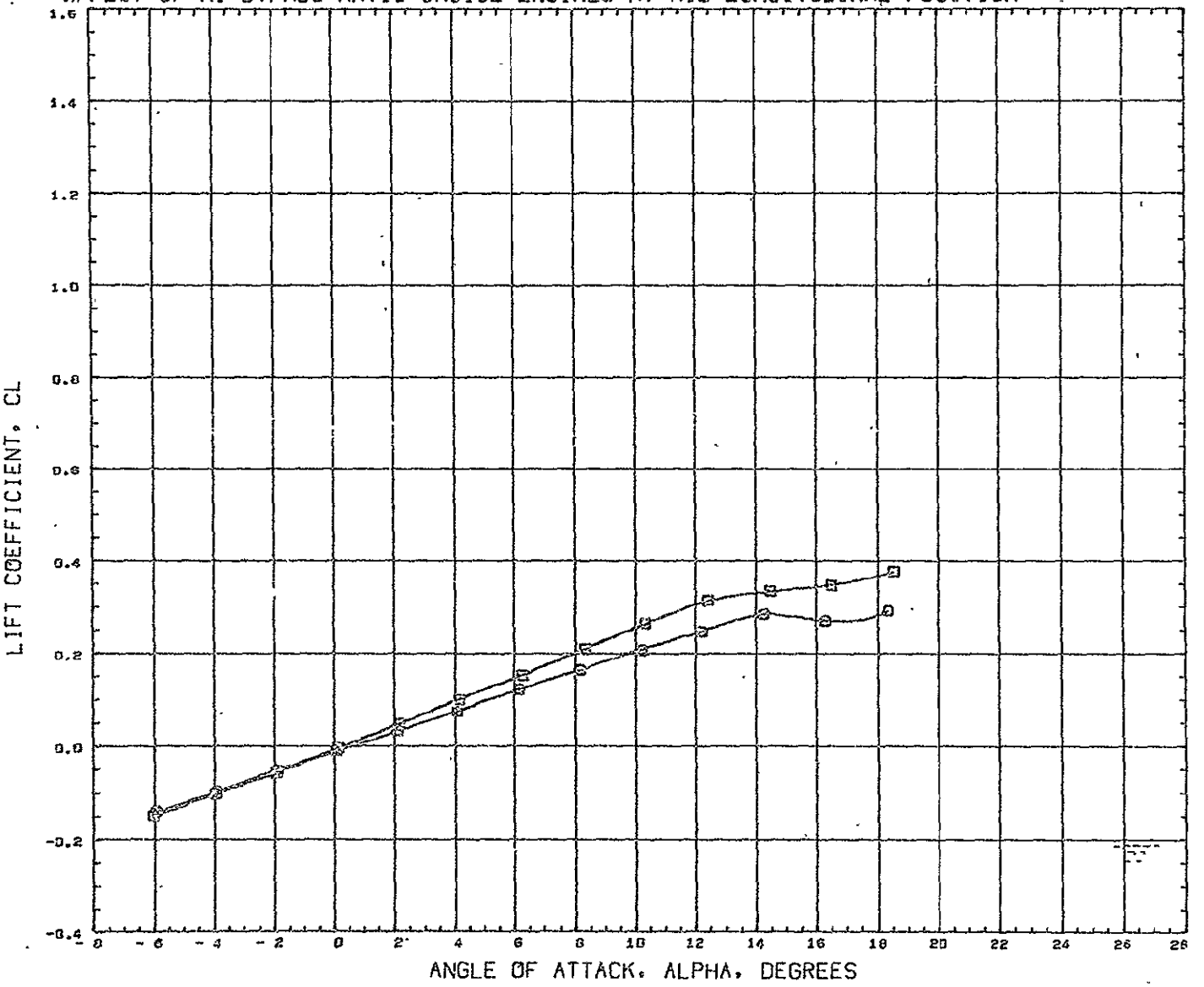
BETA	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8054)	○	CVLSWT TEST 580-0 B9T4V4
(RC8053)	□	CVLSWT TEST 580-0 B9T4V4E13

PARAMETRIC VALUES

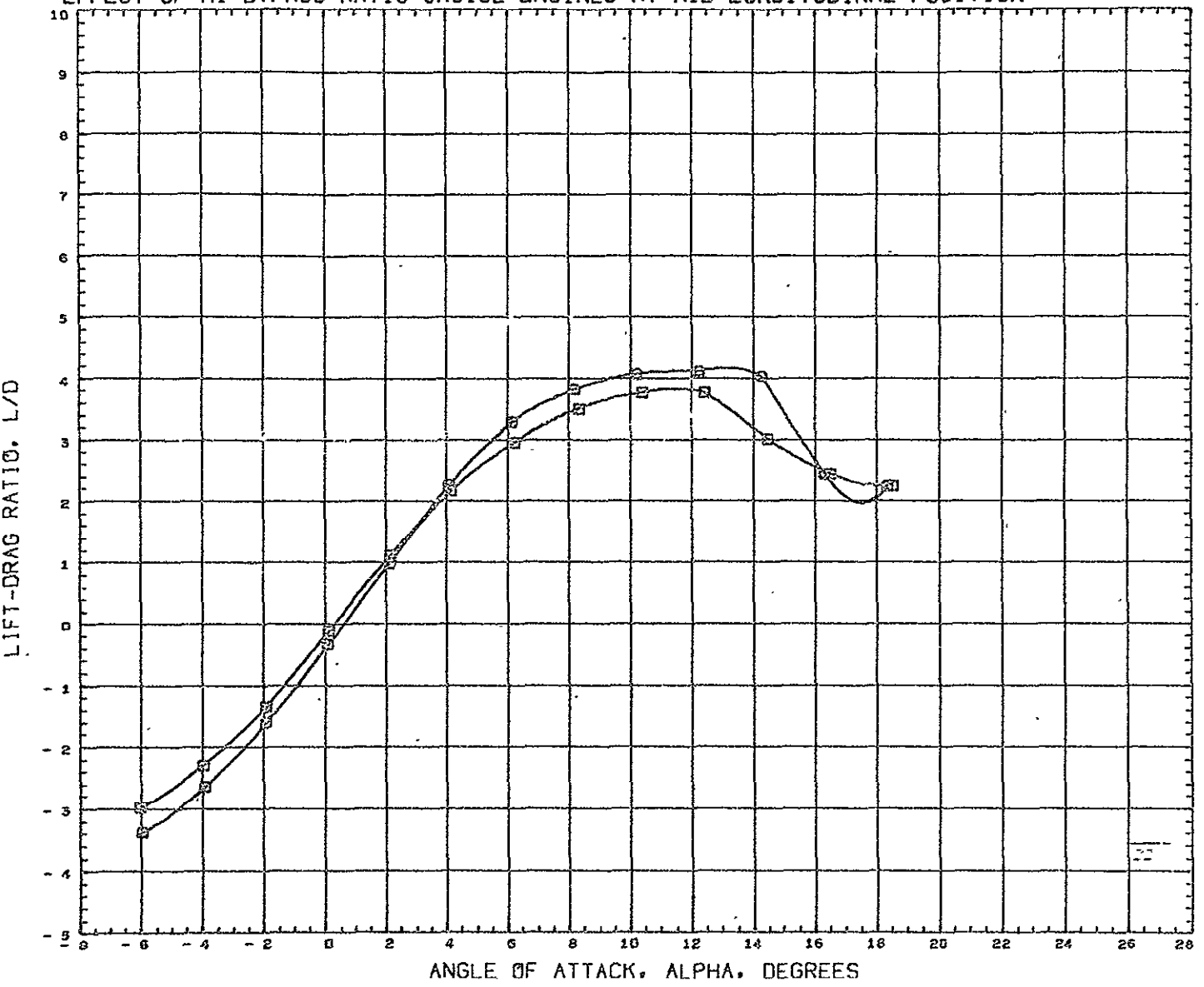
BETA	0.000	ELEVTR	0.000
RUDDER	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RC8054) ○ CVLSWT TEST 580-0 B9T4V4

(RC8033) □ CVLSWT TEST 580-0 B9T4V4E13

PARAMETRIC VALUES

BETA 0.000 ELEVTR 0.000

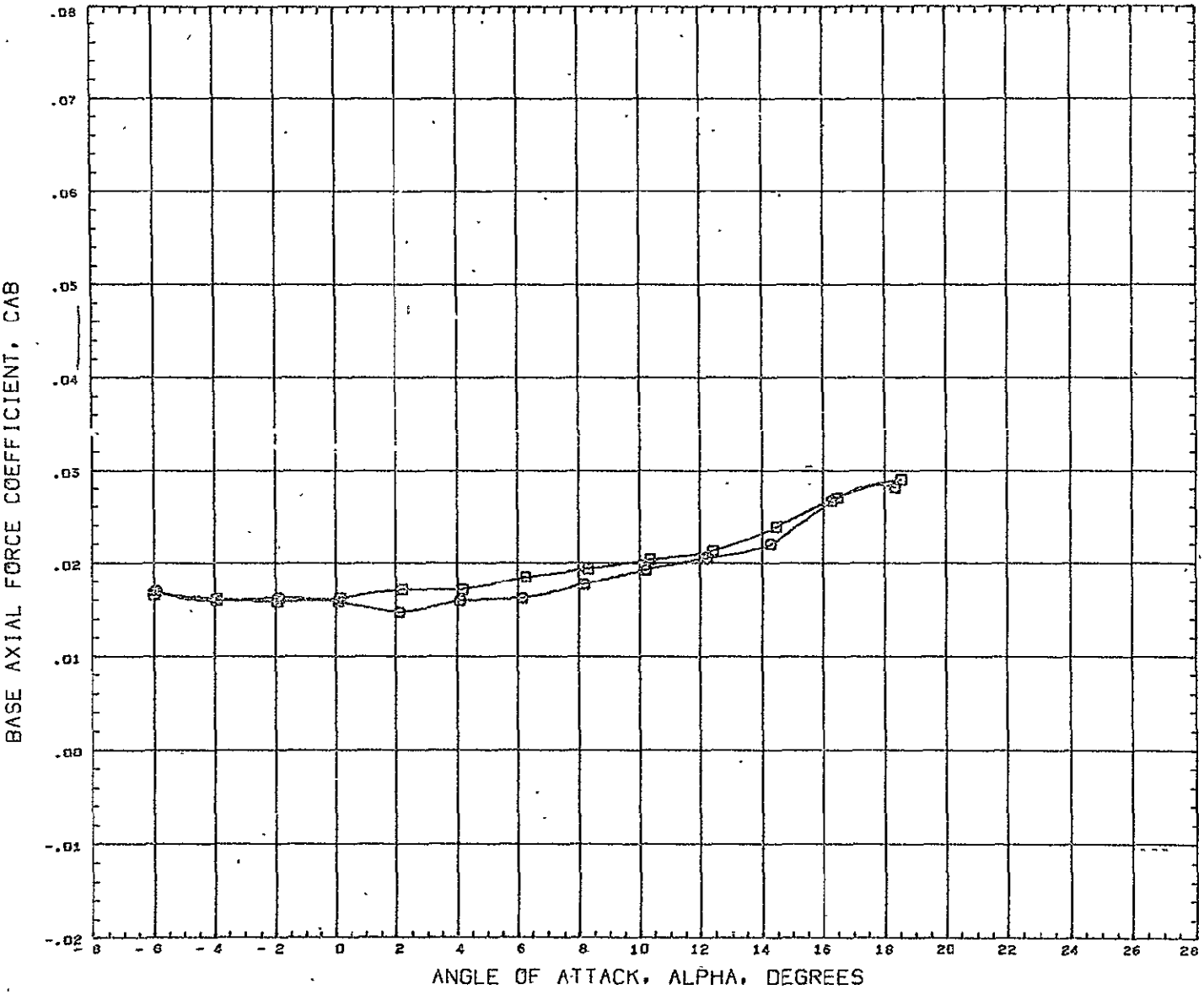
RUDDER 0.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8054)	□	CVLSWT TEST 580-0 B9T4V4
(RC8053)	□	CVLSWT TEST 580-0 B9T4V4E13

PARAMETRIC VALUES

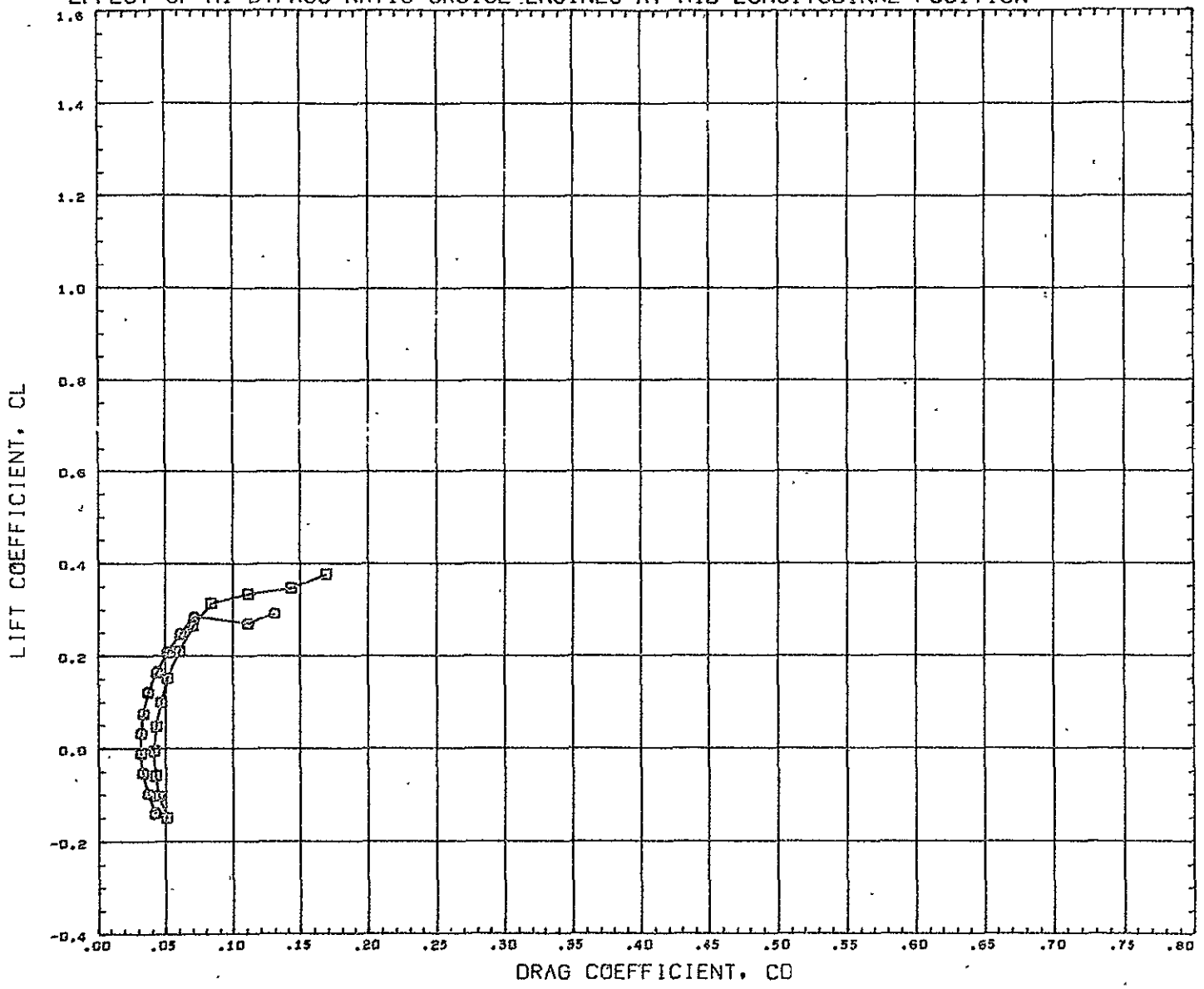
BETA	0.000	ELEVTR	0.000
RUDDER	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8054)	O	CVLSWT TEST 580-0 B9T4V4
(RC8053)	□	CVLSWT TEST 580-0 B9T4V4E13

PARAMETRIC VALUES

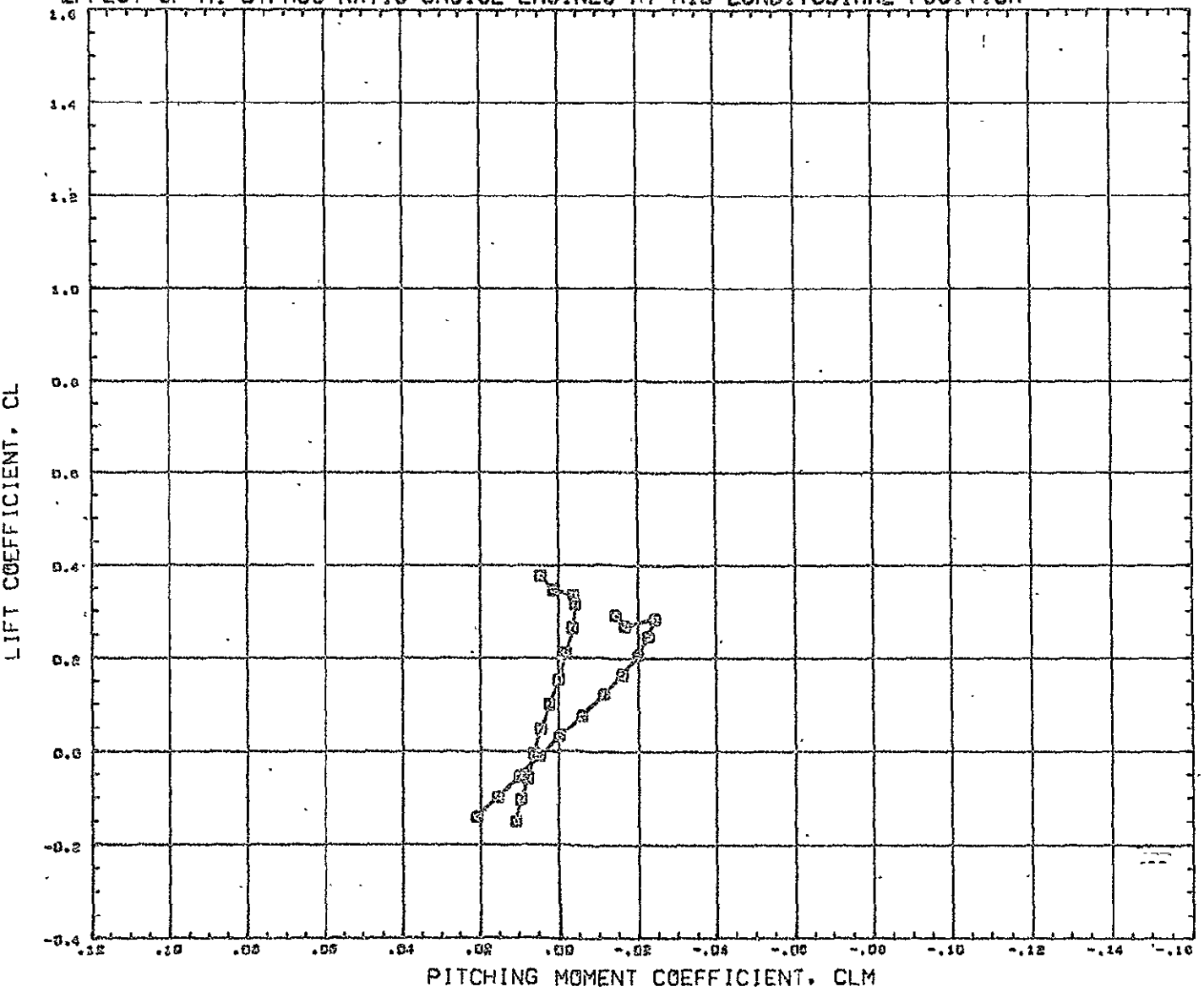
BETA	0.000	ELEVTR	0.000
RUDDER	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF HI-BYPASS RATIO CRUISE ENGINES AT MID-LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC0094)	☐	CVLSWT TEST 580-0 B9T4V4
(RC0093)	☐	CVLSWT TEST 580-0 B9T4V4E13

PARAMETRIC VALUES

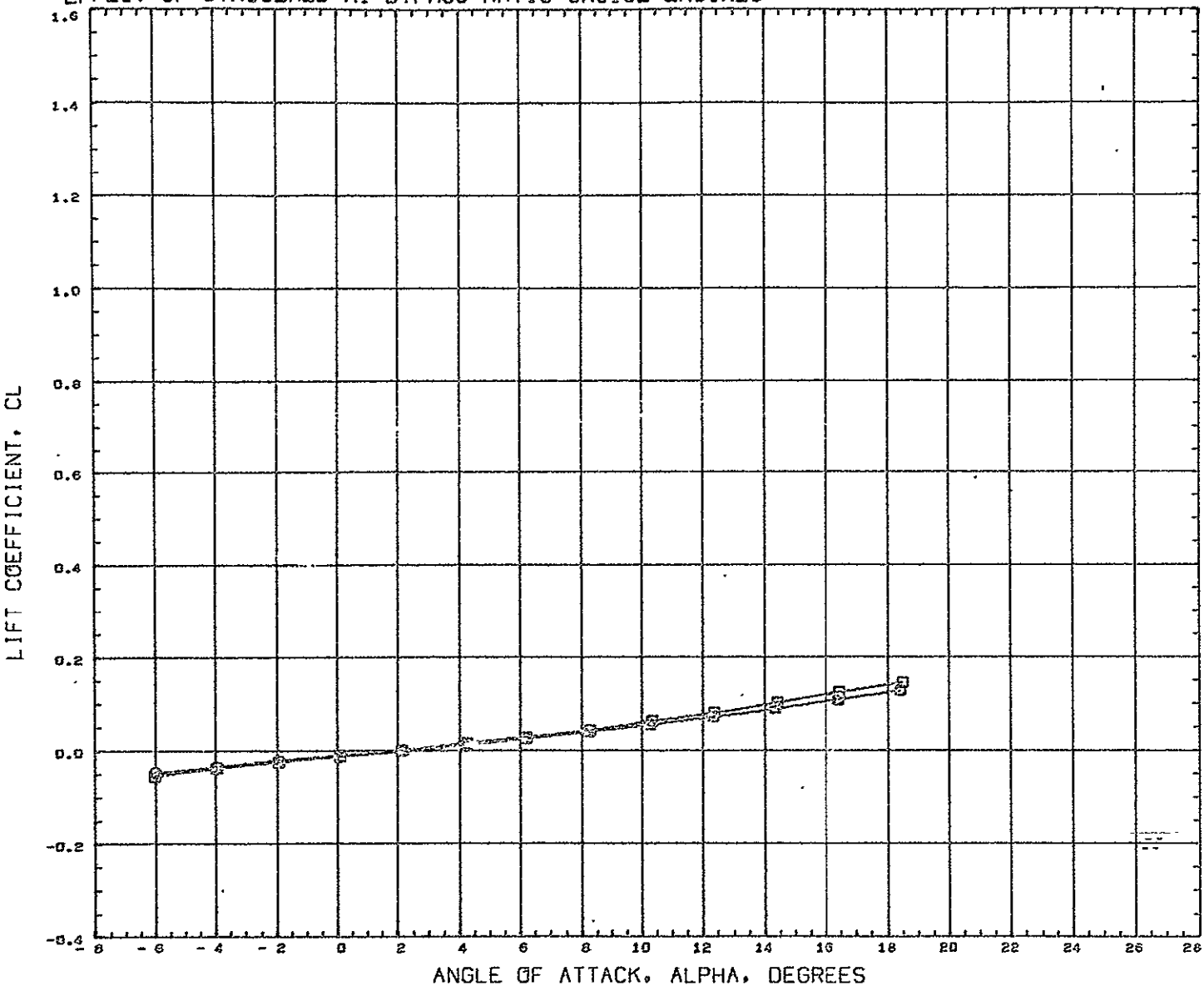
BETA	0.000	ELEVTR	0.000
RUDDER	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XNRP	29.3920	IN
YNRP	0.0000	IN
ZNRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8050)	O	CVLSWT TEST 580-0 B9
(PC8051)	□	CVLSWT TEST 580-0 B9E28

PARAMETRIC VALUES

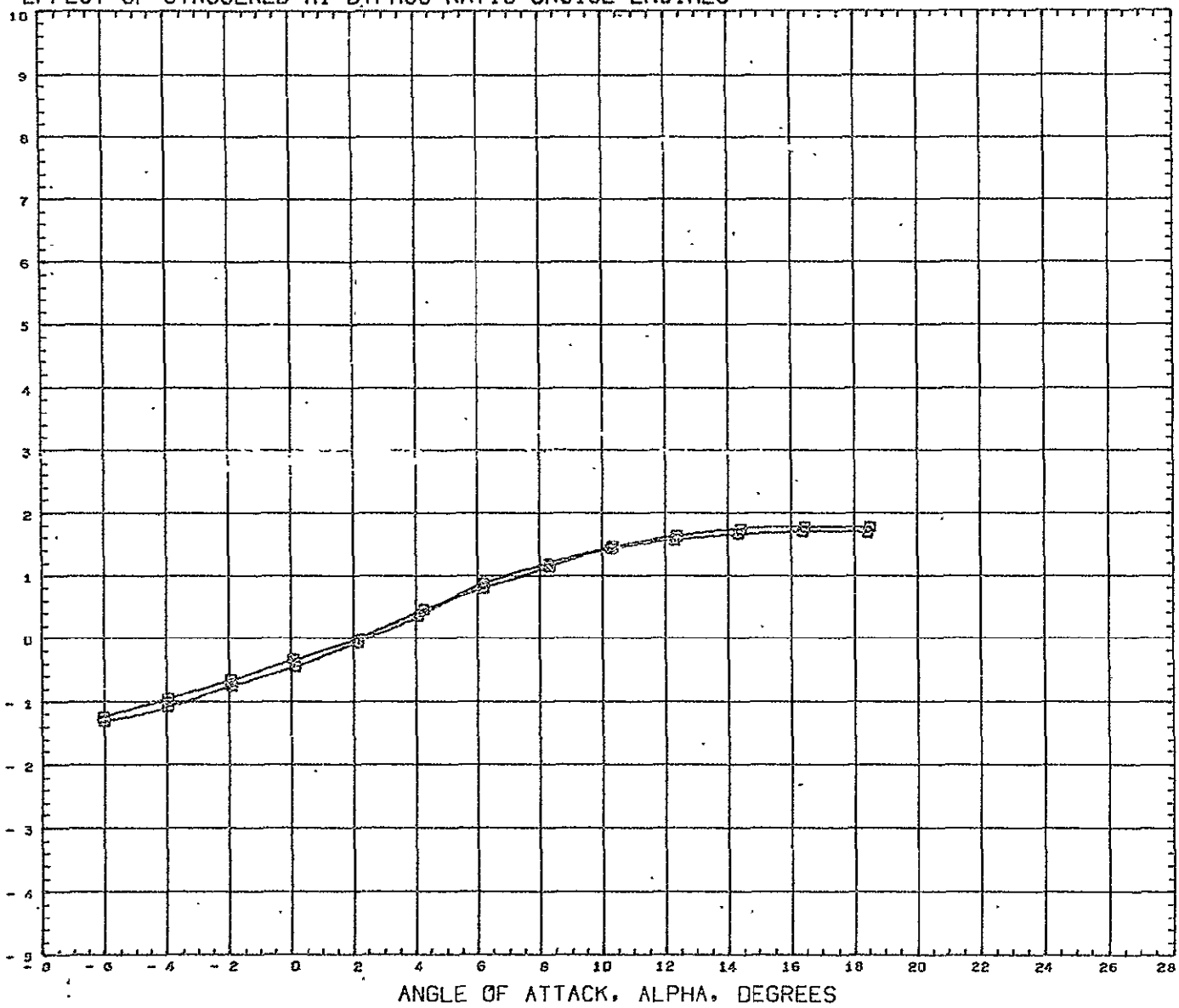
BETA 0.000

MACH 0.259

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8050)	○	CVLSWT TEST 580-0 B9
(RC8051)	□	CVLSWT TEST 580-0 B9E28

PARAMETRIC VALUES

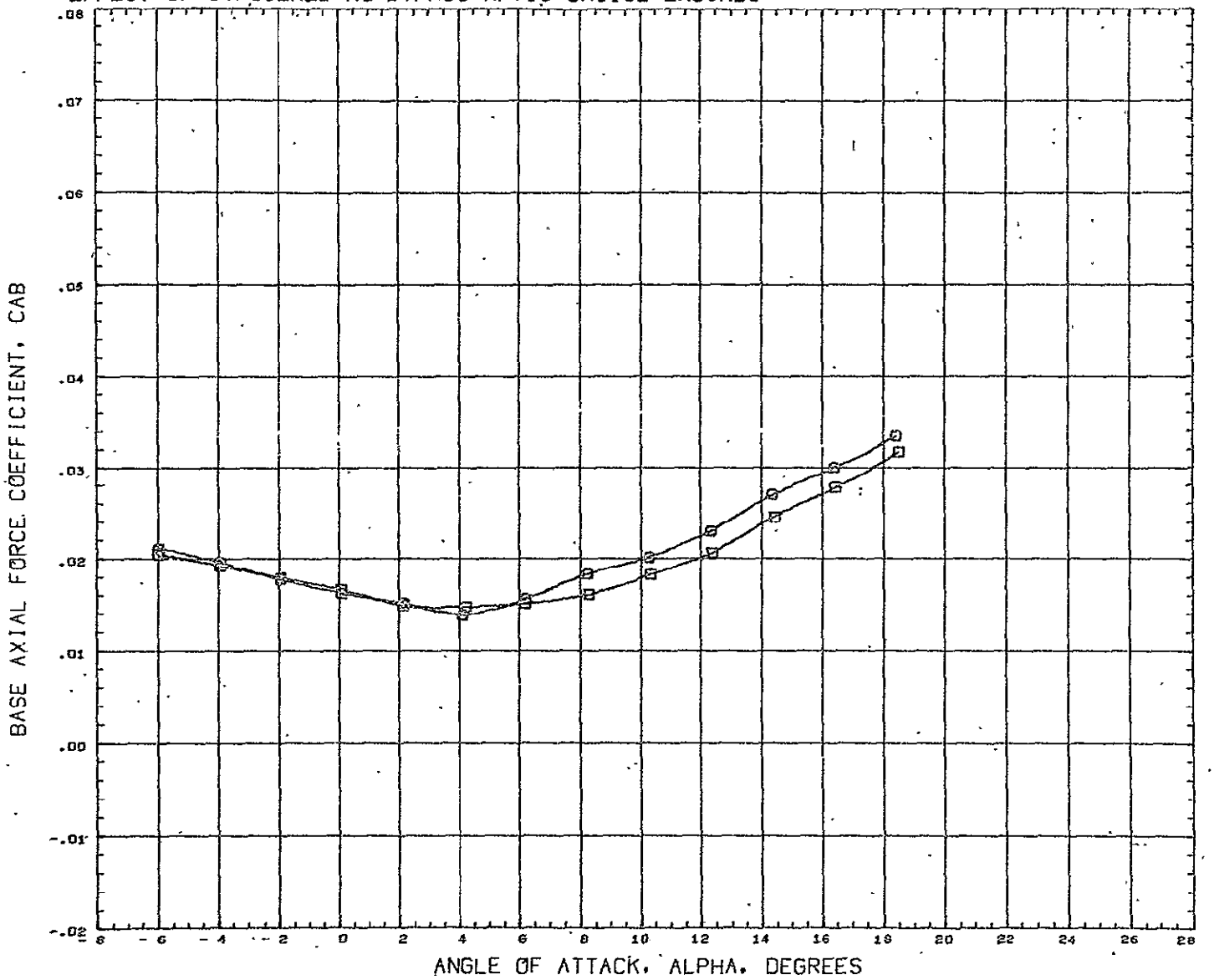
BETA 0.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8050)	○	CVLSWT TEST 580-0 B9
(RC8051)	□	CVLSWT TEST 580-0 B9E28

PARAMETRIC VALUES

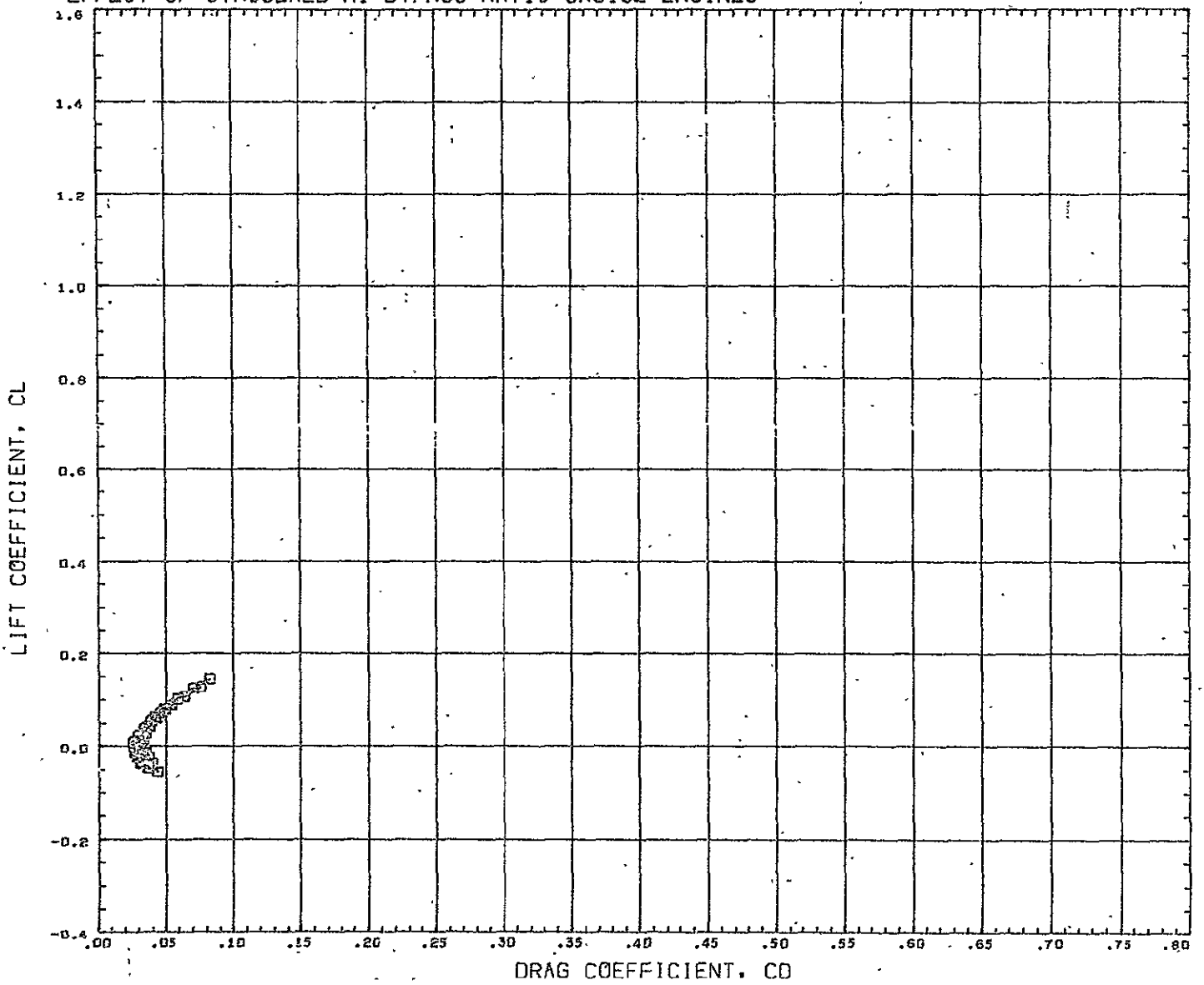
BETA 0.000

MACH 0.259

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8050)	○	CVLSWT TEST 580-0 B9
(RC8051)	□	CVLSWT TEST 580-0 B9E28

MACH 0.259

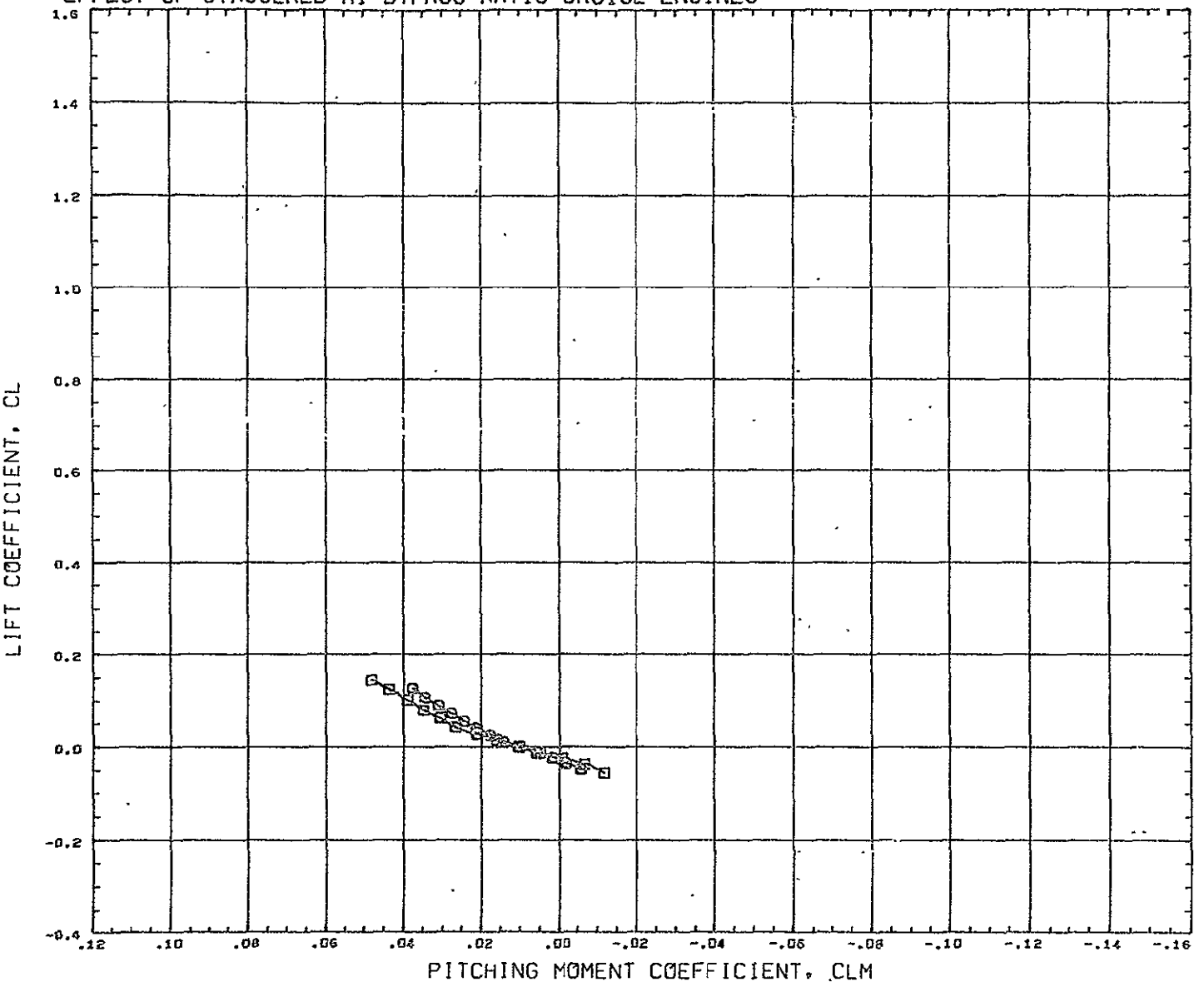
PARAMETRIC VALUES

BETA 0.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8050)	○	CVLSWT TEST 580-0 B9
(RC8051)	□	CVLSWT TEST 580-0 B9E28

PARAMETRIC VALUES

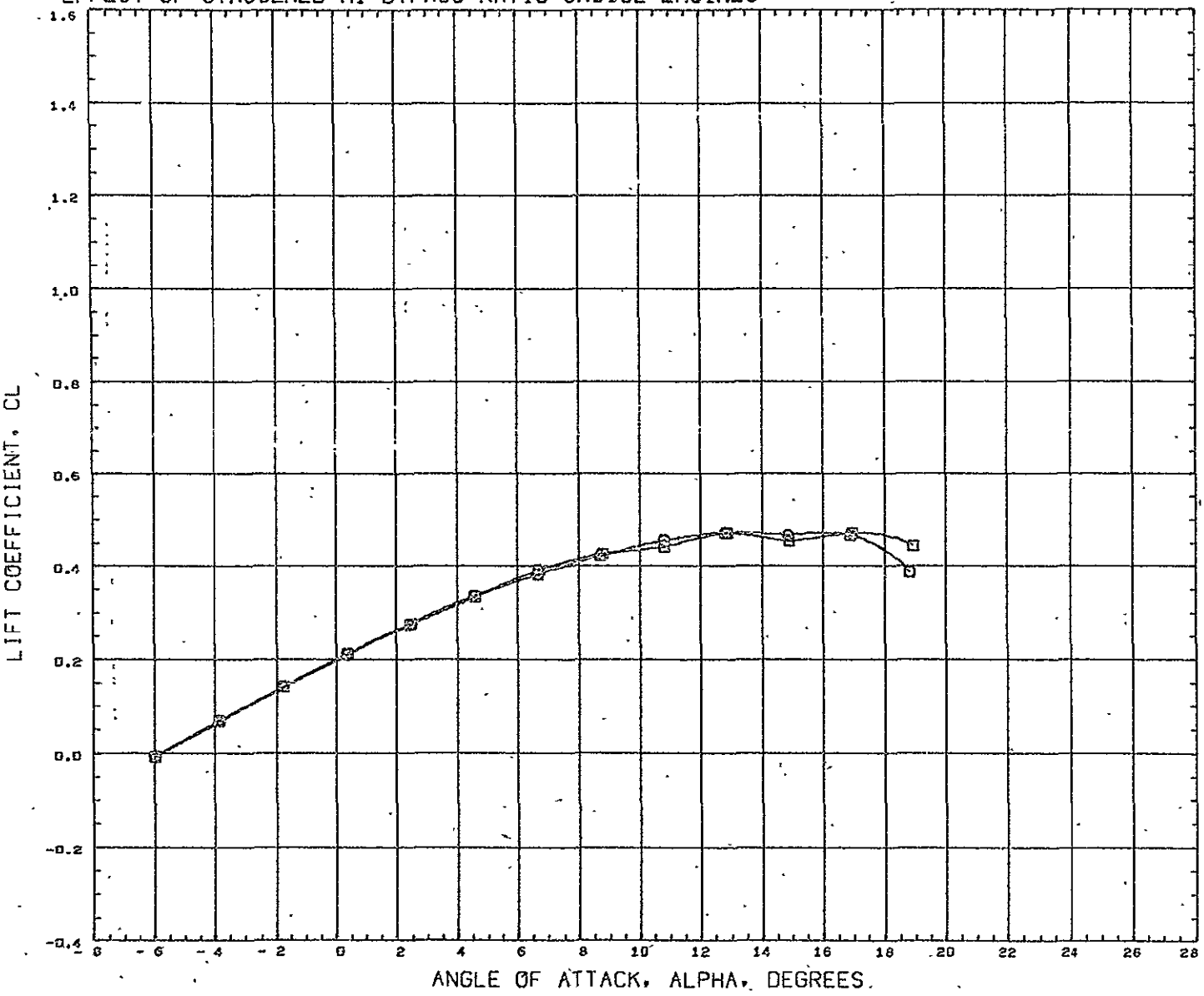
BETA	0.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.6000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC0001)	○	CVLSWT TEST 580-D B9W3A
(RC0047)	□	CVLSWT TEST 580-D B9W3AE28

PARAMETRIC VALUES

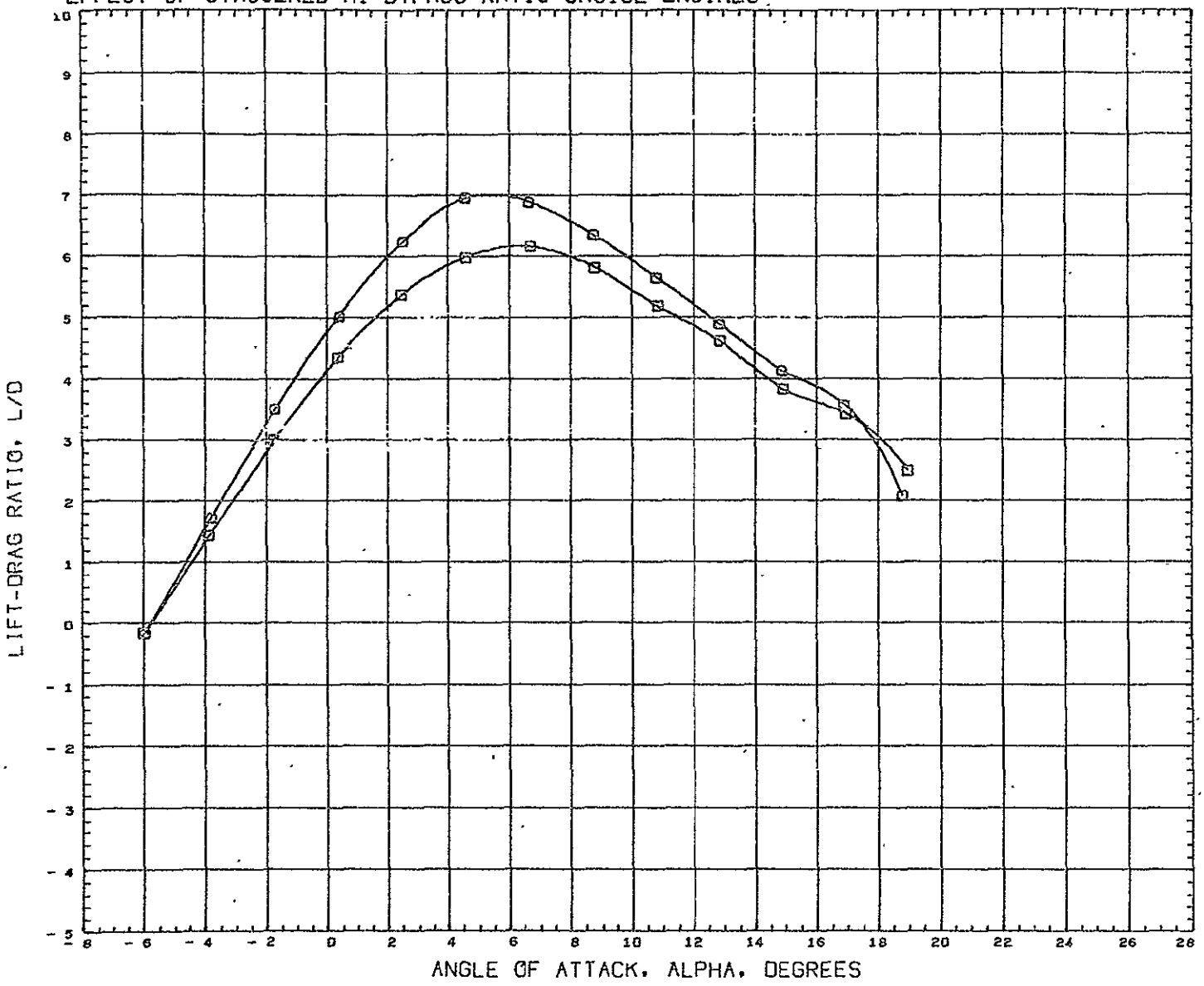
BETA	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8001)	○	CVLSWT TEST 580-0 B9W3A
(RC8047)	□	CVLSWT TEST 580-0 B9W3AE28

PARAMETRIC VALUES

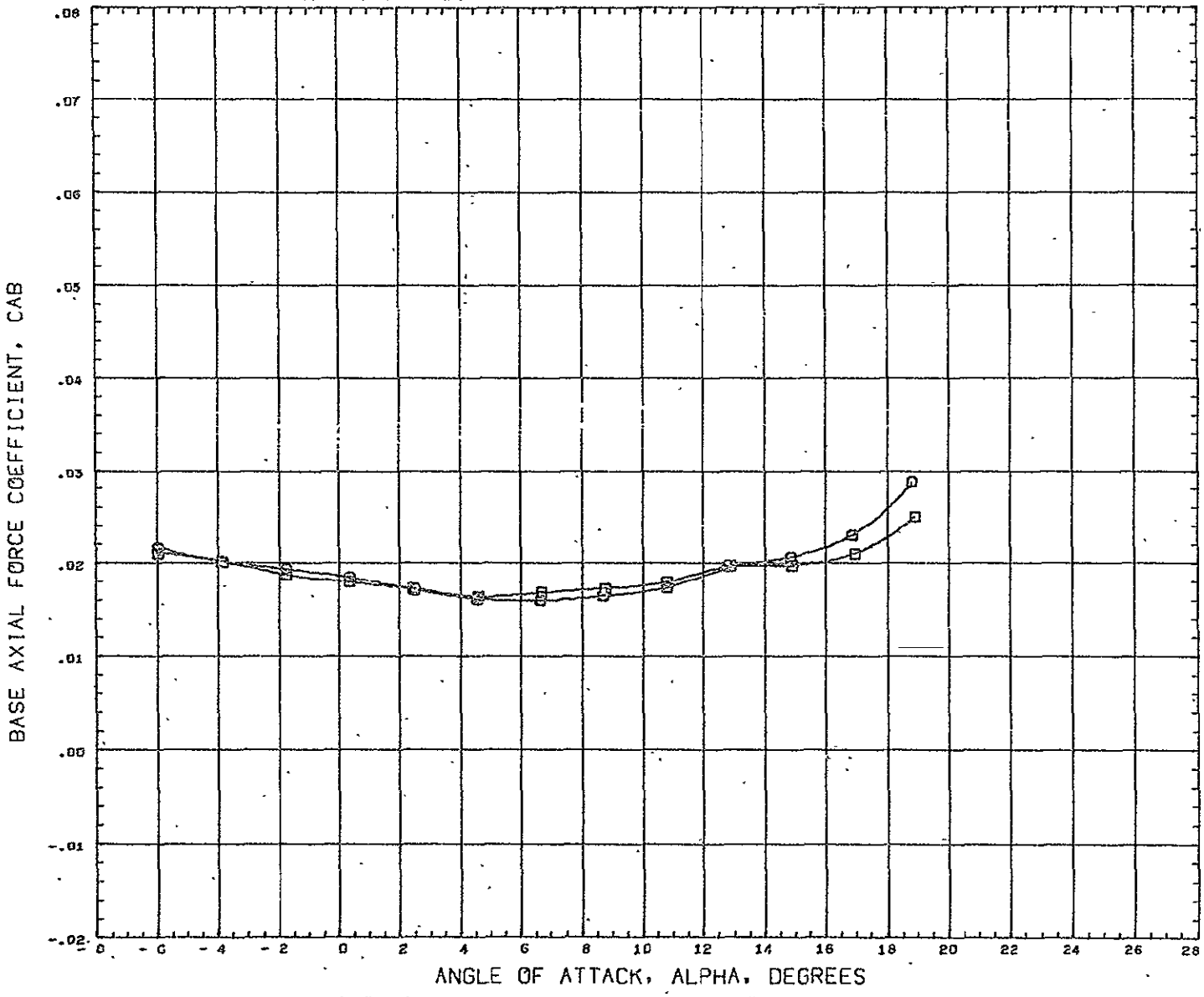
BETA	0.000	FLAPS	0.000
SFOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8001)	○	CVLSWT TEST 580-0 B9W3A
(RC8047)	□	CVLSWT TEST 580-0 B9W3AE28

PARAMETRIC VALUES

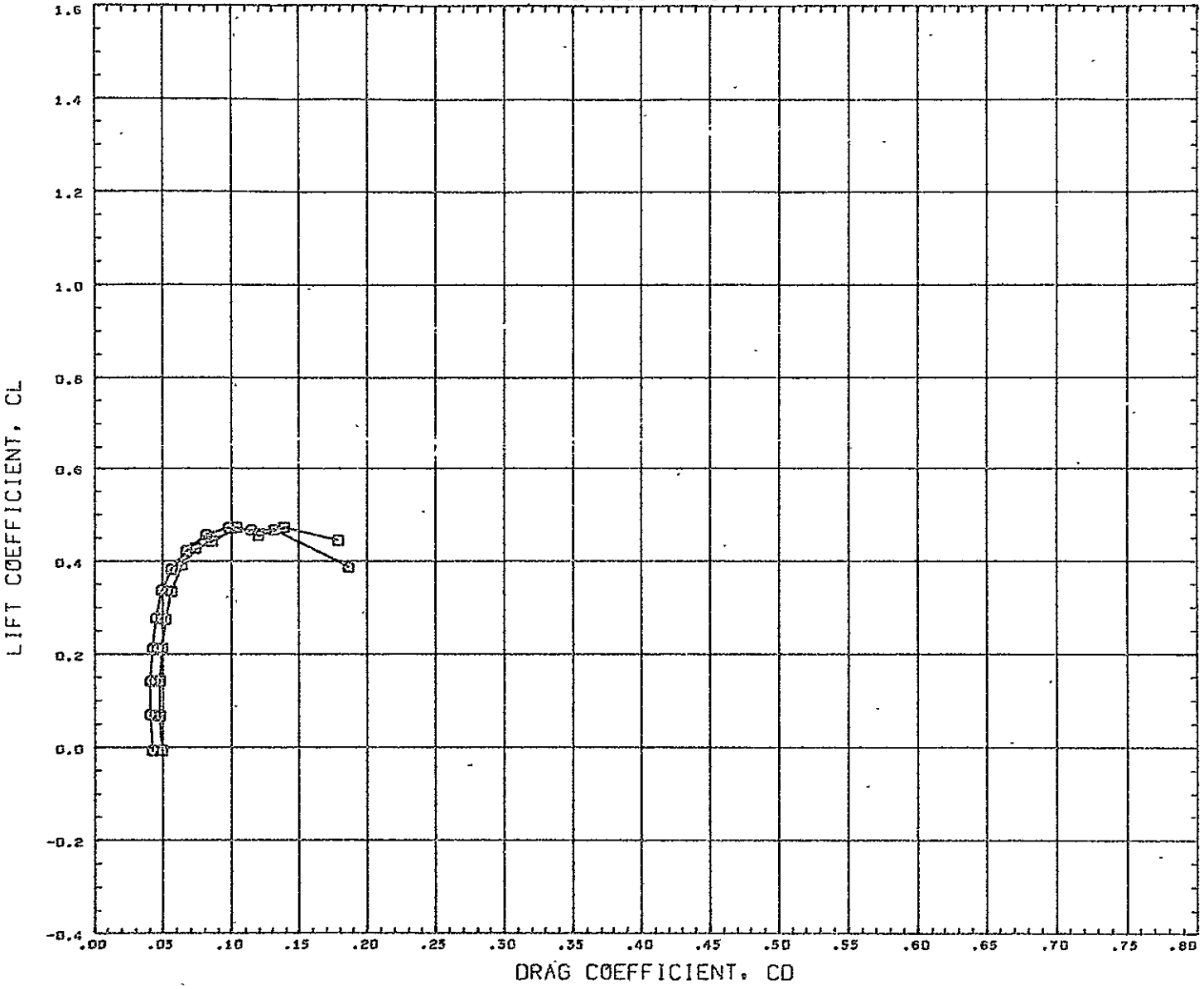
BETA	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8001)	○	CVLSWT TEST 580-D B9W3A
(RC8047)	□	CVLSWT TEST 580-D B9W3AE28

MACH 0.259

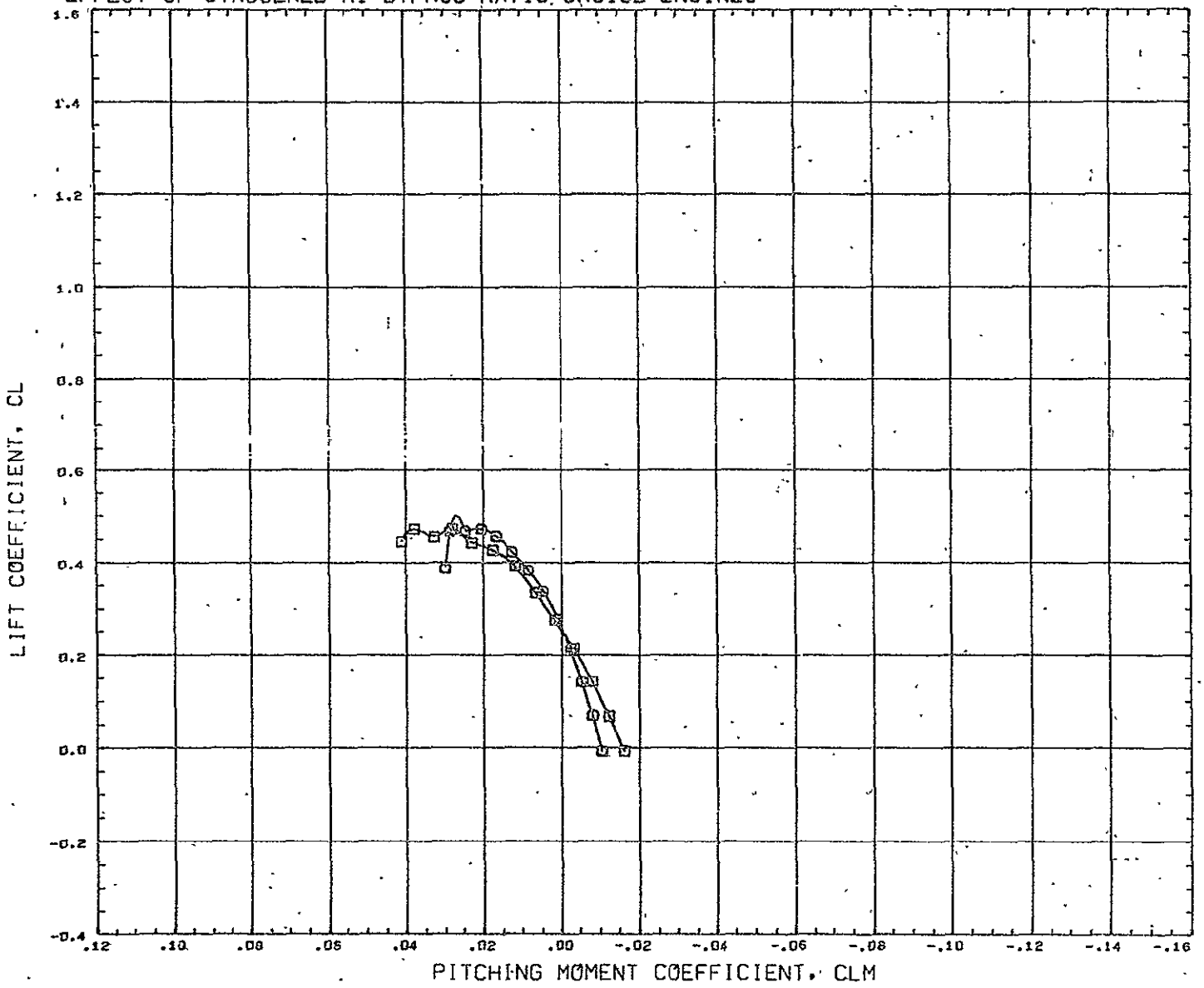
PARAMETRIC VALUES

BETA	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8001)	O	CVLSWT TEST 580-D B9W3A
(RC8047)	□	CVLSWT TEST 580-D B9W3AE28

PARAMETRIC VALUES

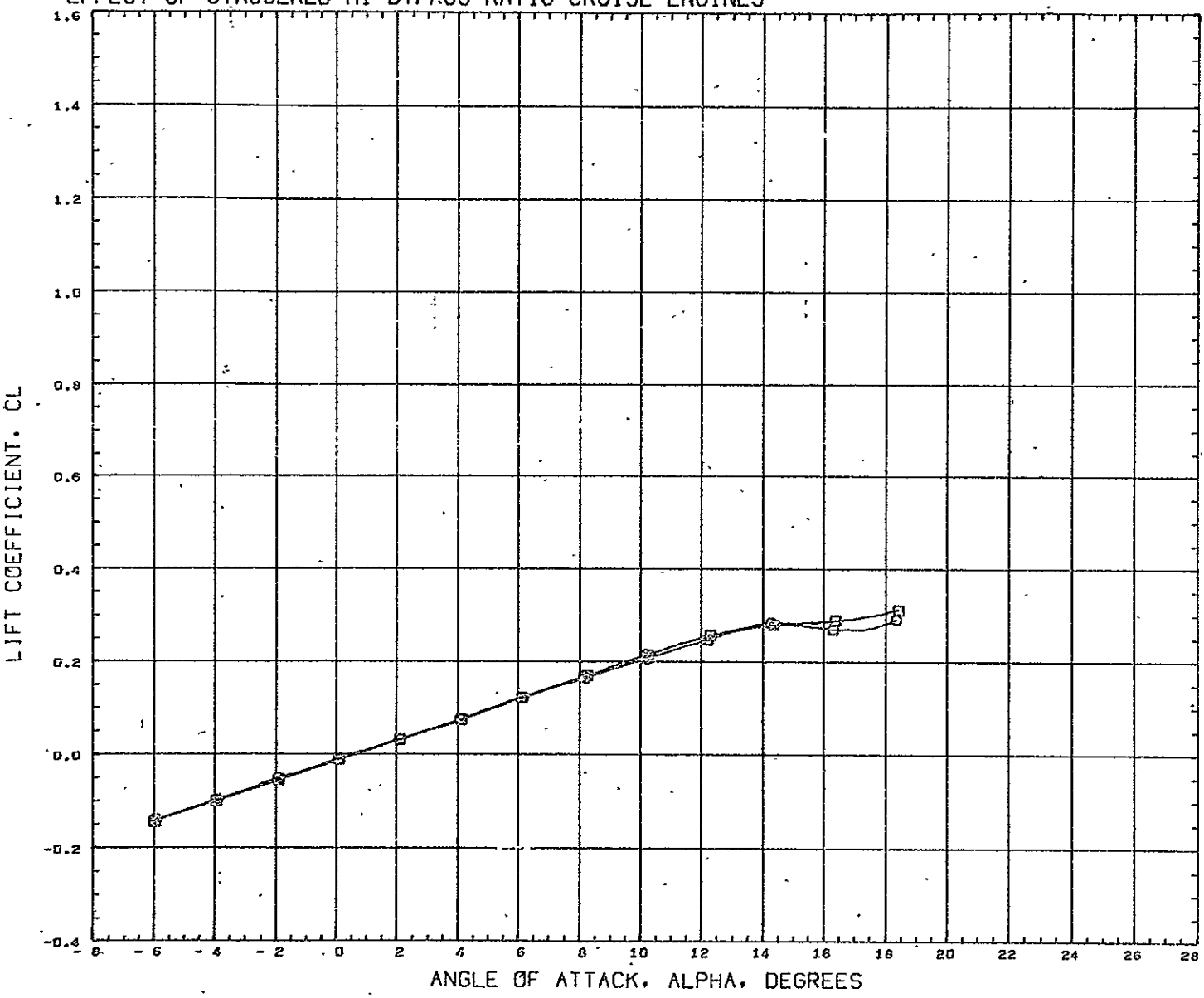
BETA	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8054)	○	CVLSWT TEST 580-0 B9T4V4
(RC8052)	□	CVLSWT TEST 580-0 B9T4V4E28

MACH 0.259

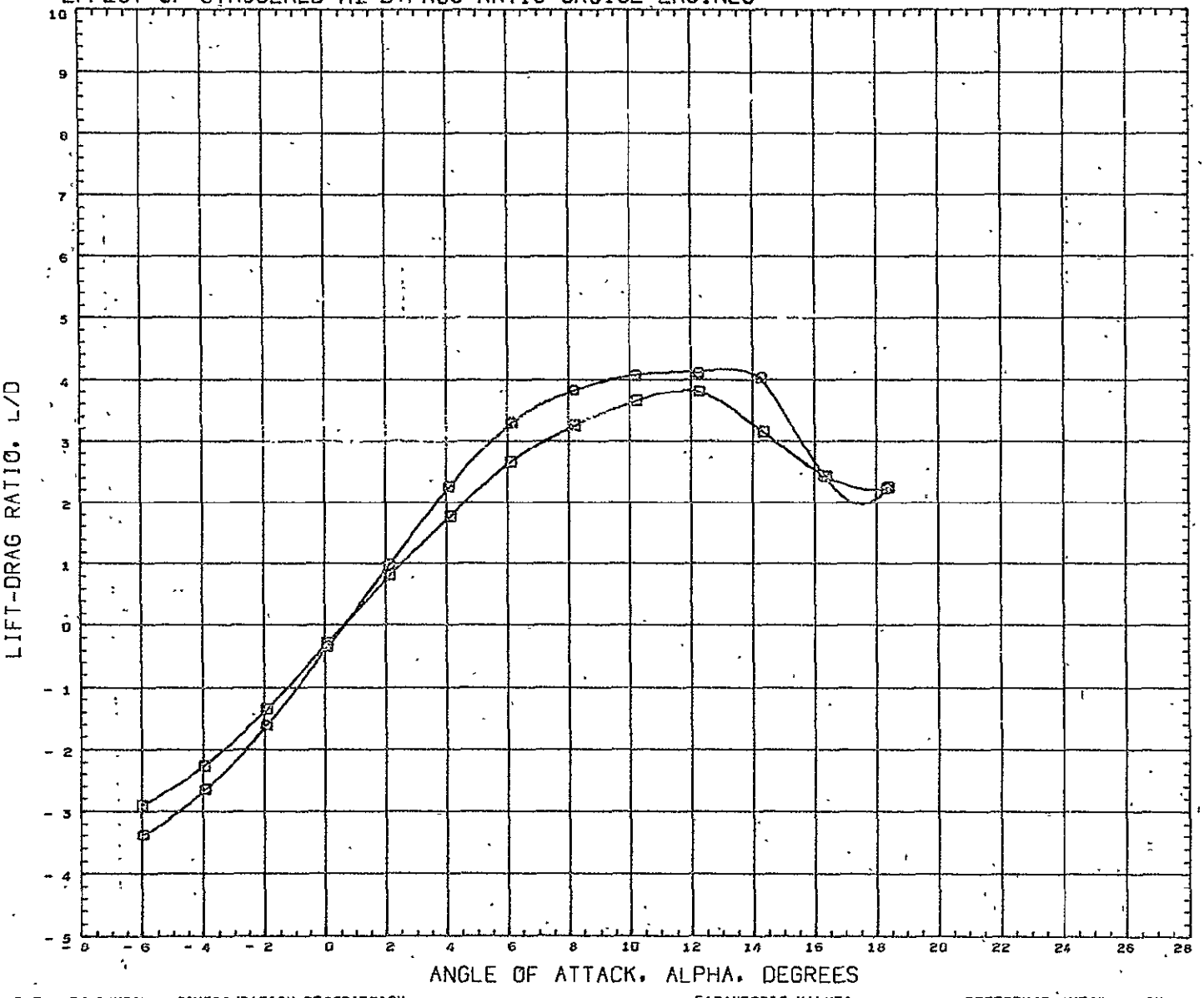
PARAMETRIC VALUES.

BETA	0.000	ELEVTR	0.000
RUDDER	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



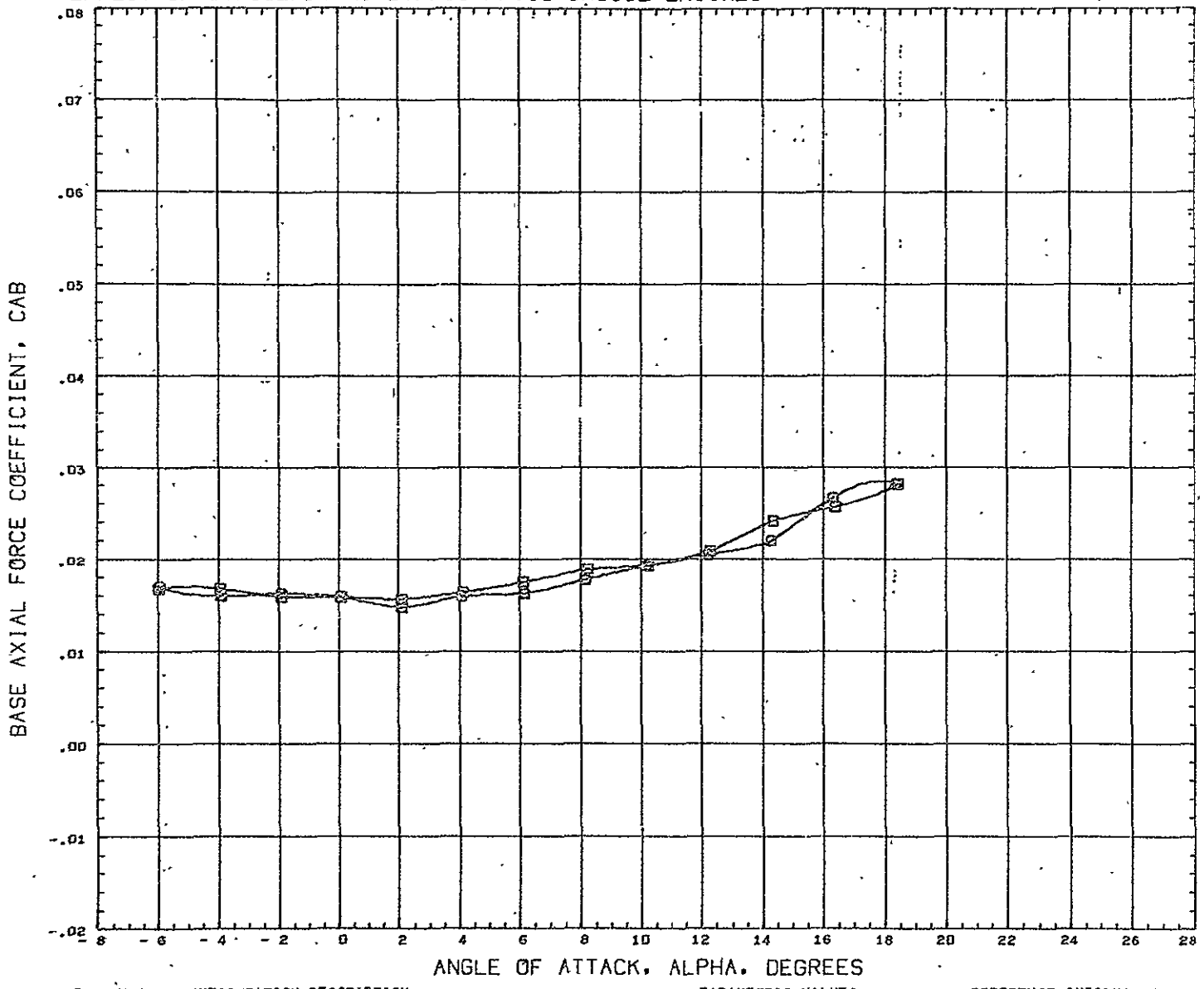
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8054)	○	CVLSWT TEST 580-0 B9T4V4
(RC8052)	□	CVLSWT TEST 580-0 B9T4V4E28

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8054)	○	CVLSWT TEST 580-0 B9T4V4
(RC8052)	□	CVLSWT TEST 580-0 B9T4V4E28

PARAMETRIC VALUES

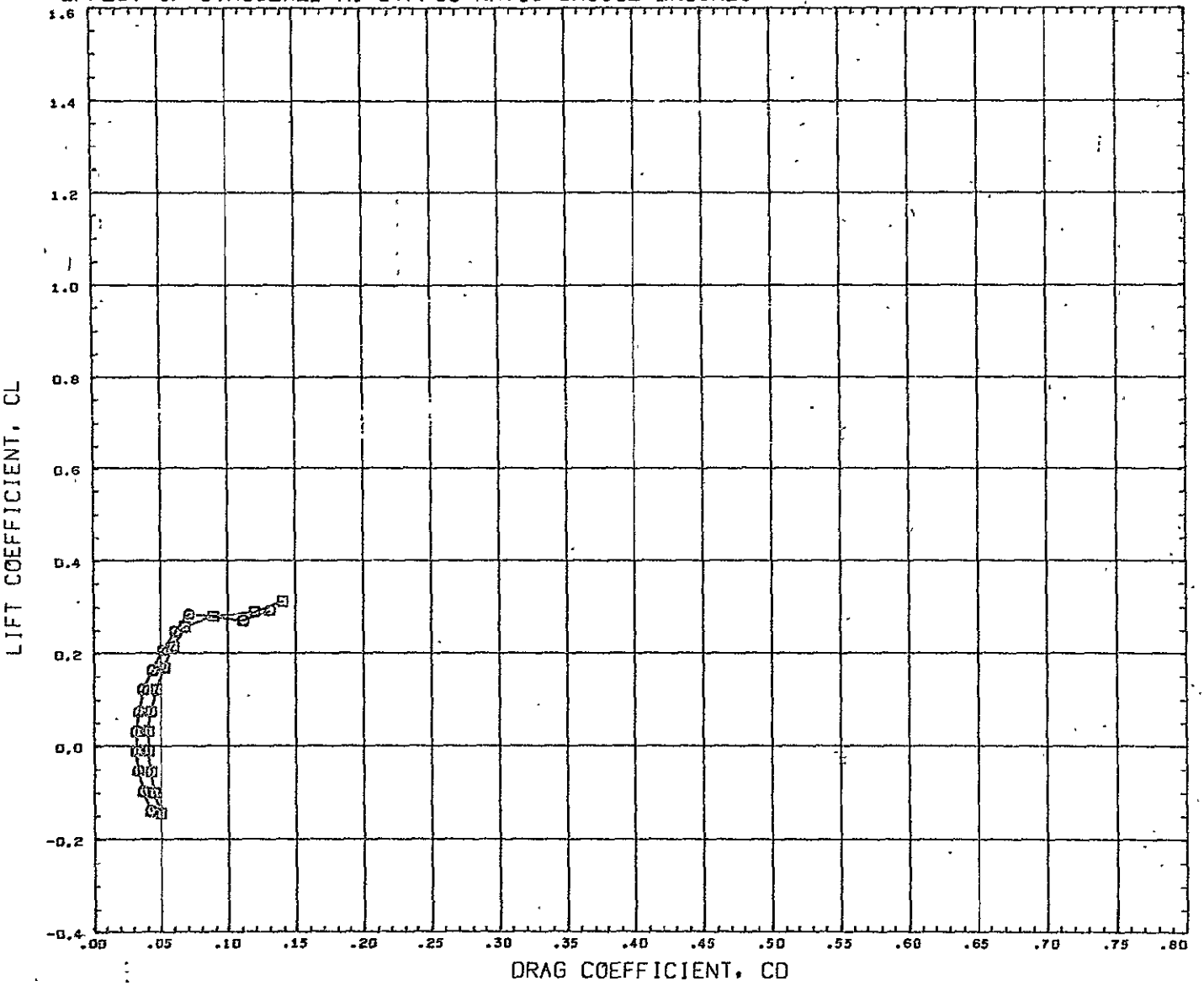
BETA	0.000	ELEVTR	0.000
RUDDER	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8054)	○	CVLSWT TEST 580-0 B9T4V4
(RC8052)	□	CVLSWT TEST 580-0 B9T4V4E28

PARAMETRIC VALUES

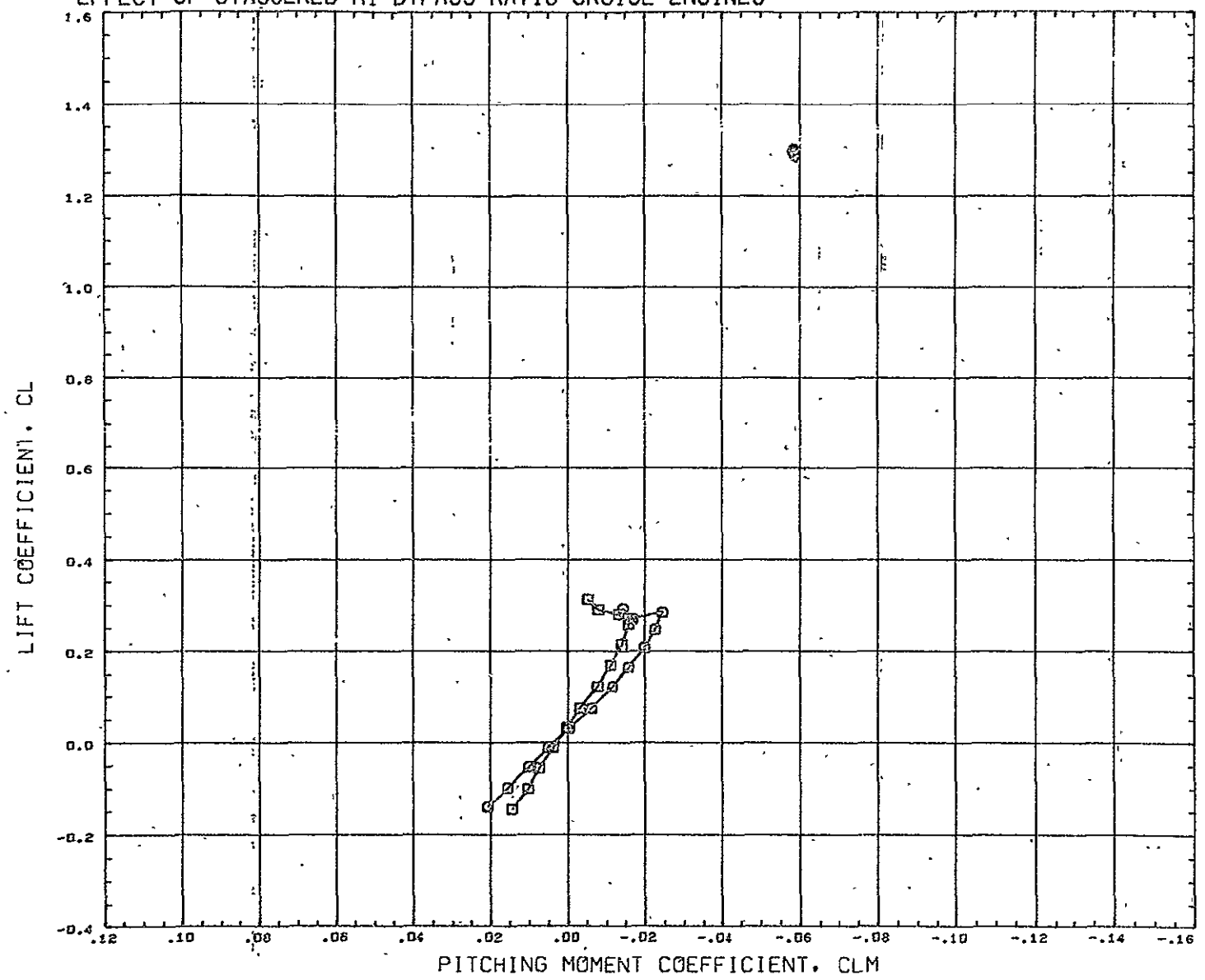
BETA	0.000	ELEVTR	0.000
RUDDER	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF STAGGERED HI-BYPASS RATIO CRUISE ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8054)	○	CVLSWT TEST 580-0 B9T4V4
(RC8052)	□	CVLSWT TEST 580-0 B9T4V4E28

PARAMETRIC VALUES

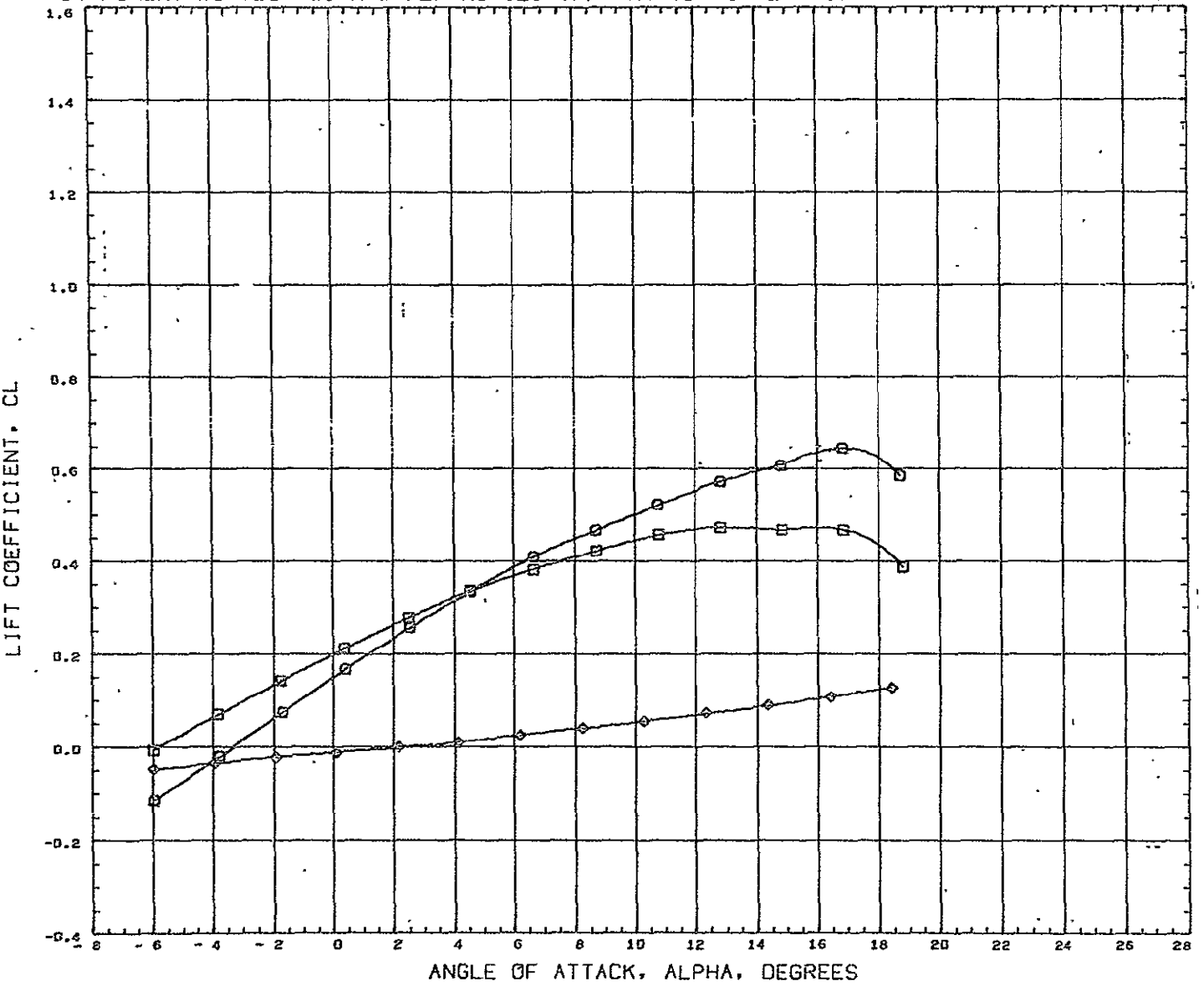
BETA	0.000	ELEVTR	0.000
RUDDER	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

COMPONENT BUILDUP WITH SMALL HORIZONTAL AND VERTICAL TAILS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8001)	□	CVLSWT TEST 580-0 B9W3A
(RC805D)	◇	CVLSWT TEST 580-0 B9

MACH 0.259

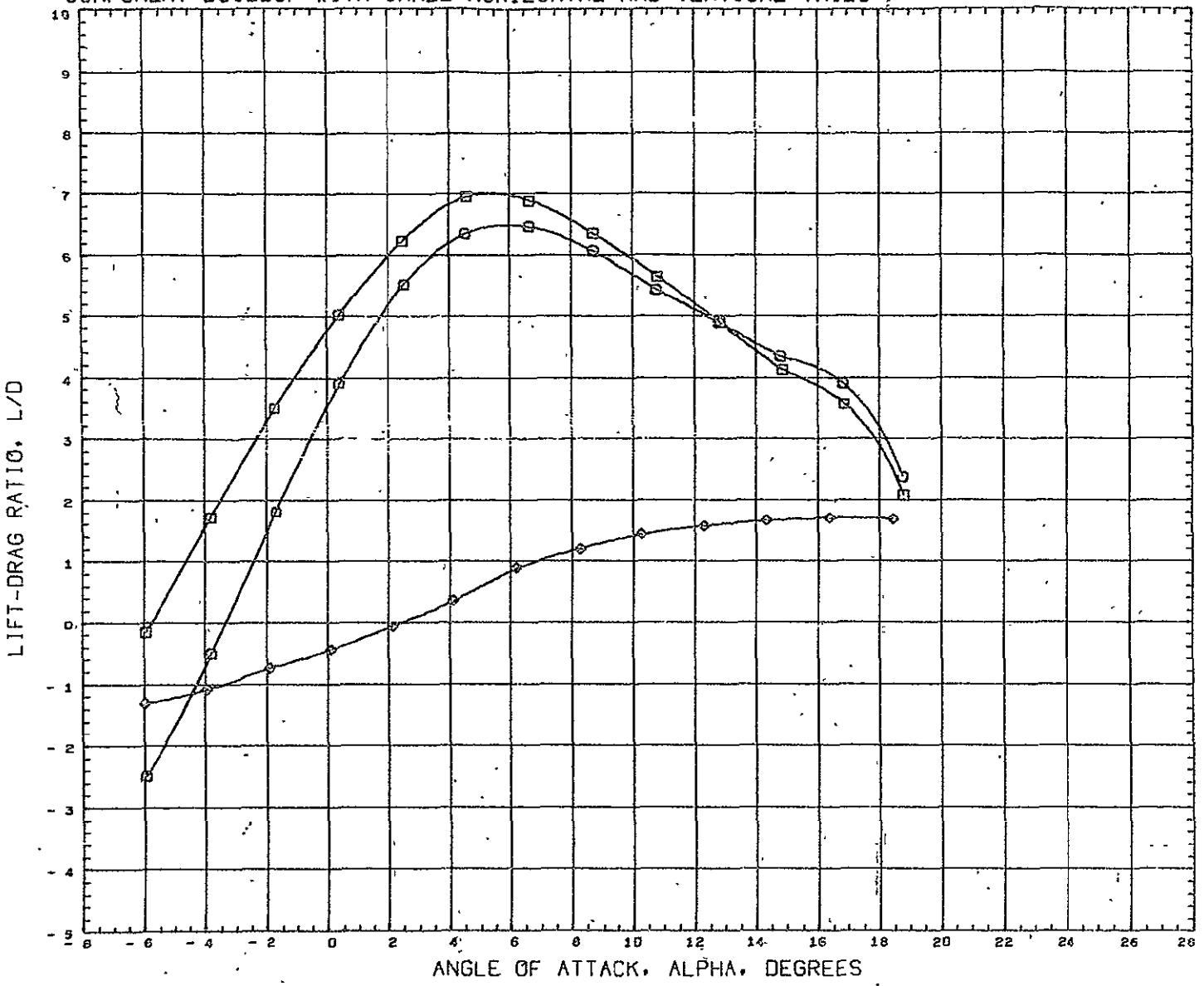
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH SMALL HORIZONTAL AND VERTICAL TAILS



DATA SET SYMBOL : CONFIGURATION DESCRIPTION

(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8001)	□	CVLSWT TEST 580-0 B9W3A
(RC8050)	◇	CVLSWT TEST 580-0 B9

PARAMETRIC VALUES

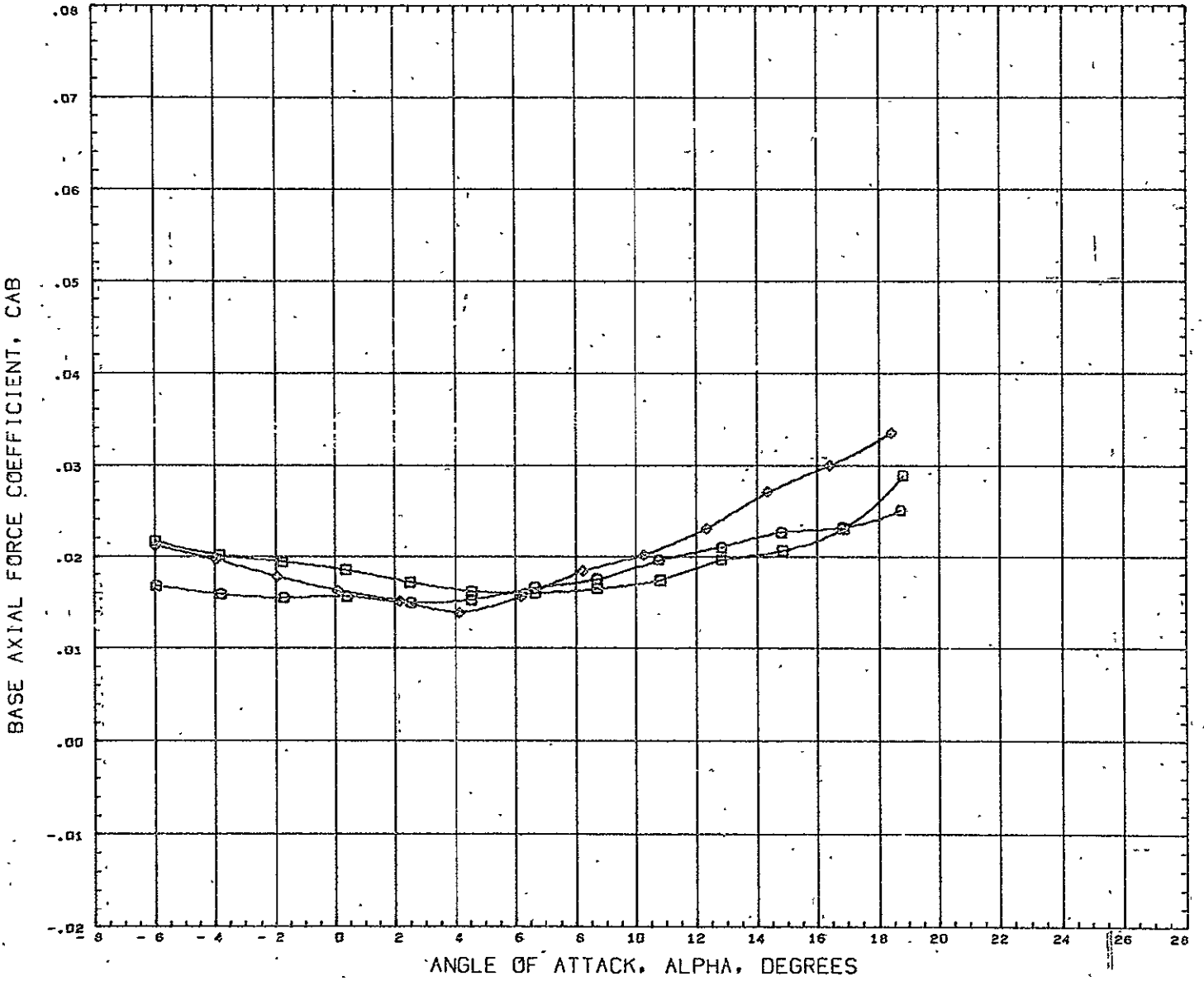
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

COMPONENT BUILDUP WITH SMALL HORIZONTAL AND VERTICAL TAILS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8001)	□	CVLSWT TEST 580-0 B9W3A
(RC8050)	◇	CVLSWT TEST 580-0 B9

MACH 0.259

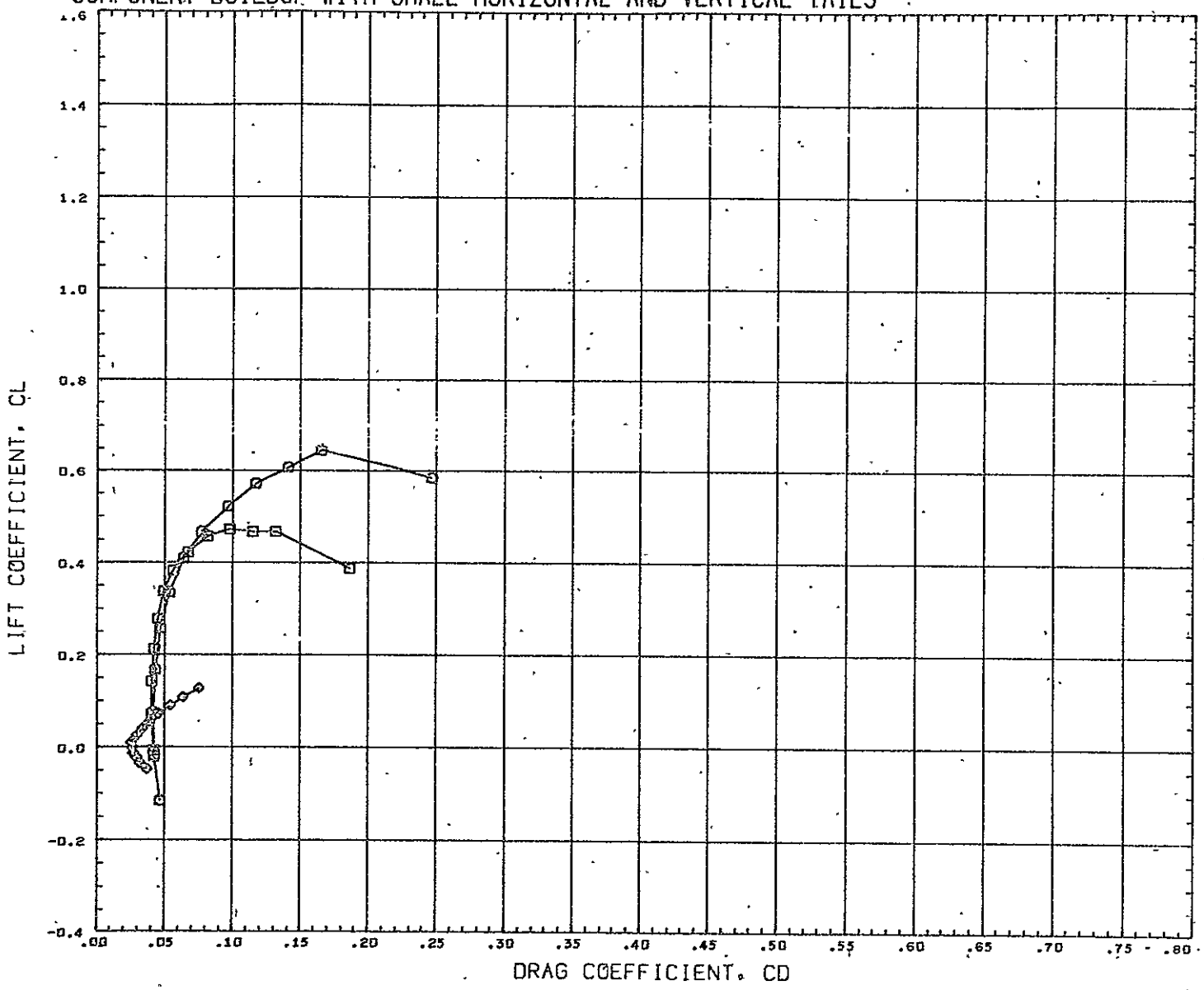
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH SMALL HORIZONTAL AND VERTICAL TAILS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-D B9W3AT4V4
(RC8001)	□	CVLSWT TEST 580-D B9W3A
(RC8050)	◇	CVLSWT TEST 580-D B9

MACH 0.259

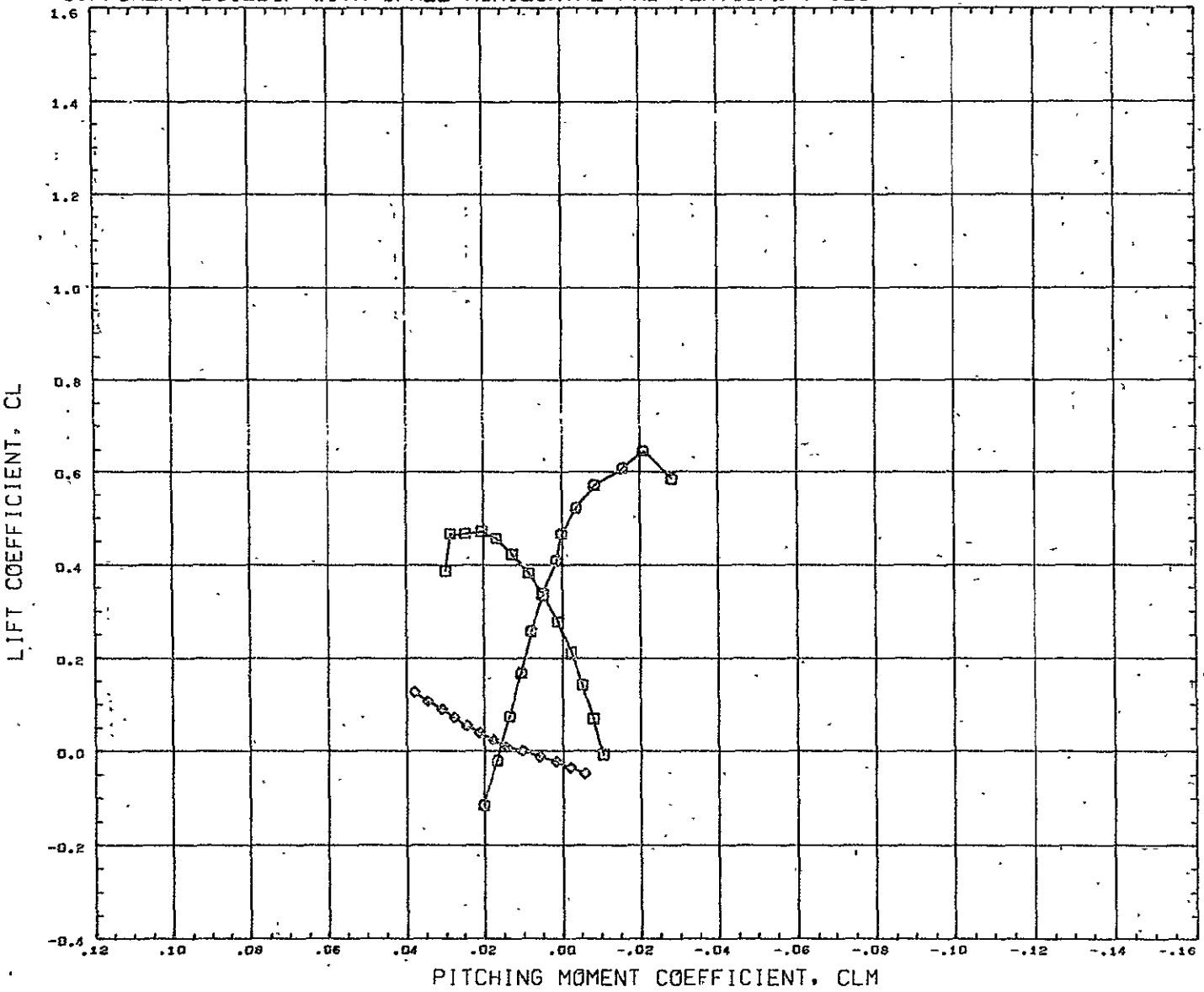
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH SMALL HORIZONTAL AND VERTICAL TAILS



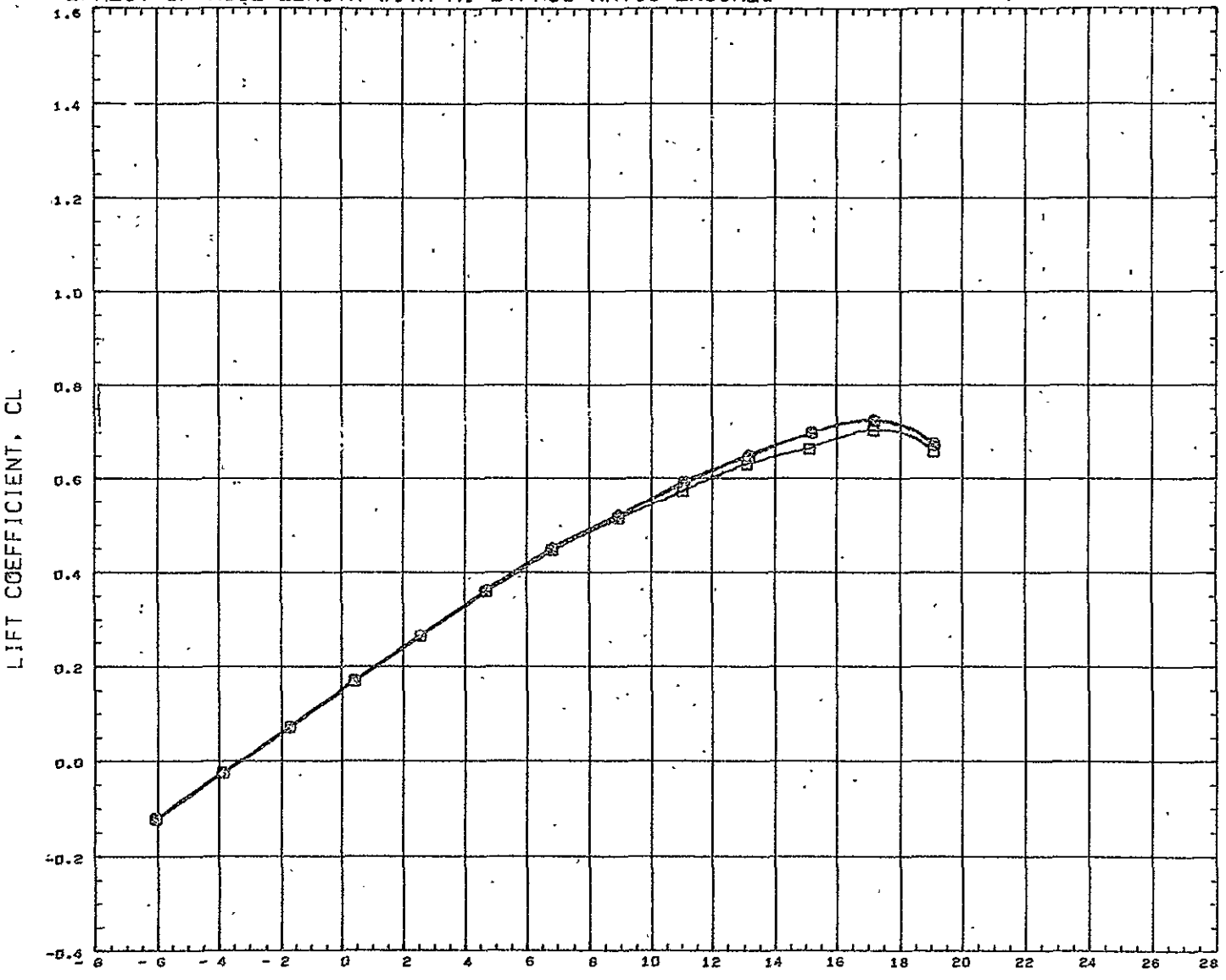
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8001)	□	CVLSWT TEST 580-0 B9W3A
(RC8050)	◇	CVLSWT TEST 580-0 B9

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SFOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF NOSE LENGTH WITH HI-BYPASS RATIO ENGINES



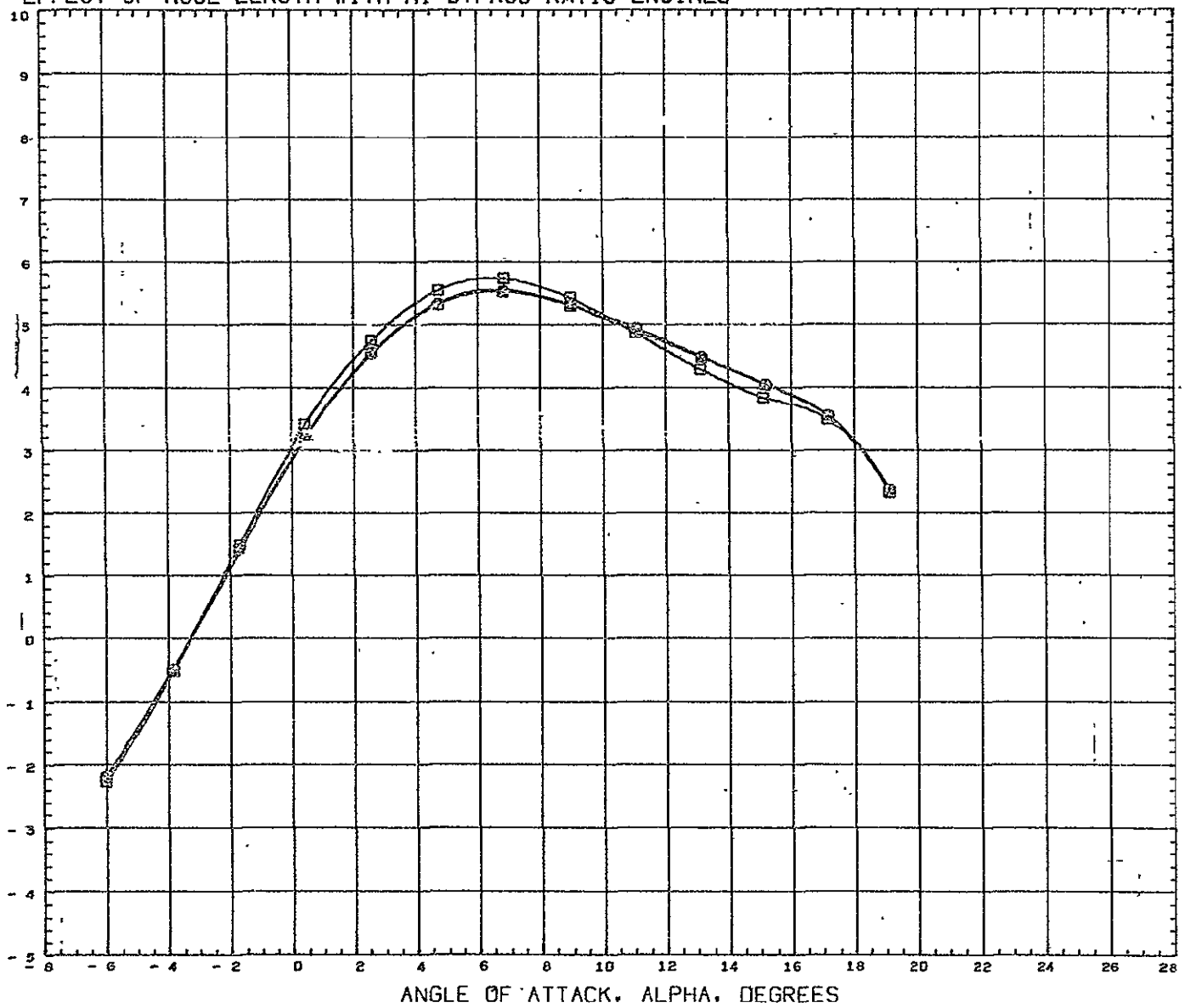
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8003)	○	CVLSWT TEST 580-0 B9W3AT4V4E10
(RC8019)	□	CVLSWT TEST 580-0 B12W3AT4V4E10
(RC8005)	◇	CVLSWT TEST 580-0 B13W3AT4V4E10

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	10.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF NOSE LENGTH WITH HI-BYPASS RATIO ENGINES



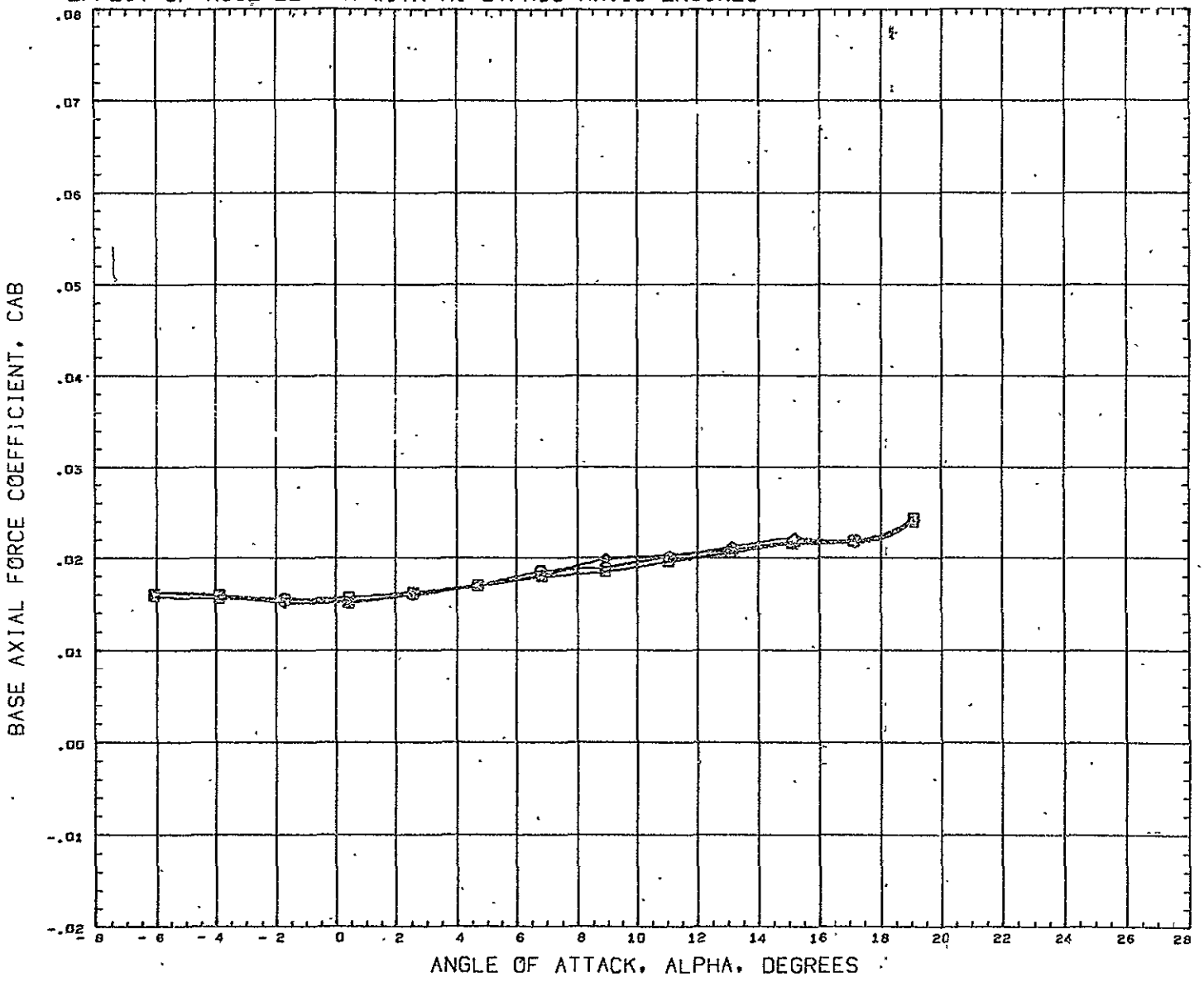
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC0003)	○	CVLSWT TEST 580-0 B9W3AT4V4E10
(RC0019)	□	CVLSWT TEST 580-0 B12W3AT4V4E10
(RC0005)	◇	CVLSWT TEST 580-0 B13W3AT4V4E10

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	10.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF NOSE LENGTH WITH HI-BYPASS RATIO ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8003)	○	CVLSWT TEST 580-0 B9W3AT4V4E10
(RC8019)	□	CVLSWT TEST 580-0 B12W3AT4V4E10
(RC8005)	◇	CVLSWT TEST 580-0 B13W3AT4V4E10

PARAMETRIC VALUES

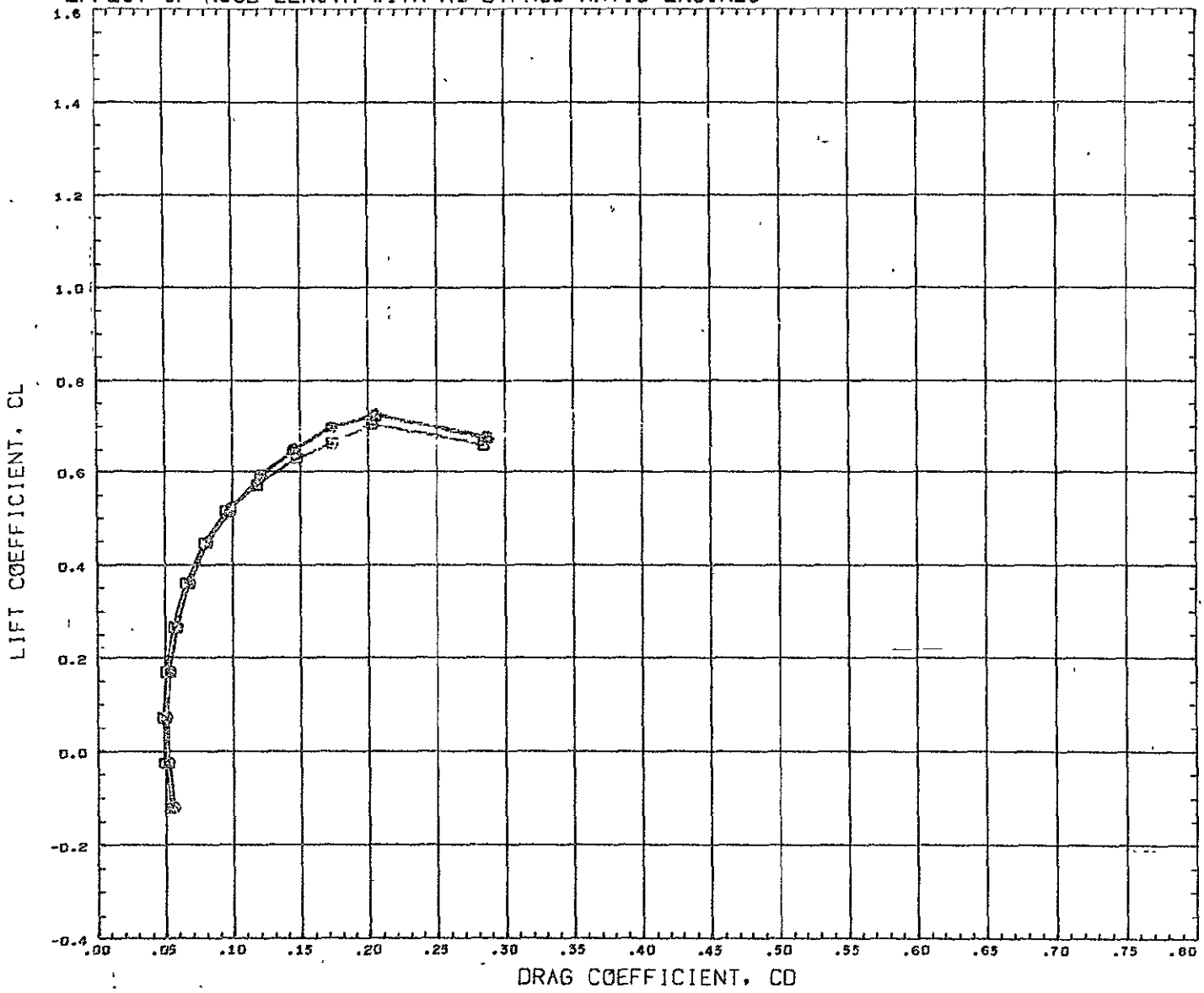
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	10.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF NOSE LENGTH WITH HI-BYPASS RATIO ENGINES



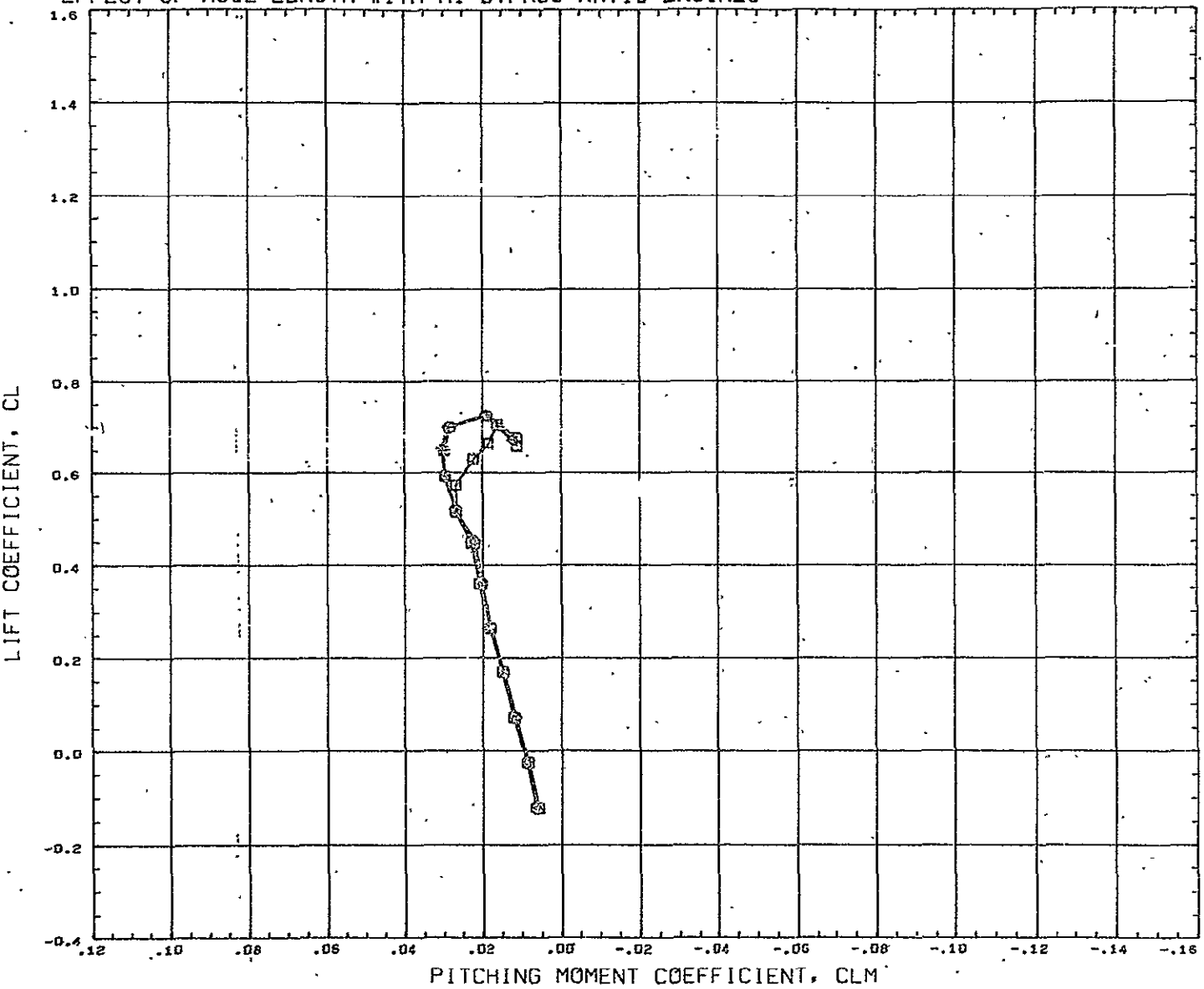
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8003)	□	CVLSWT TEST 580-0 B9W3AT4V4E10
(RC8019)	□	CVLSWT TEST 580-0 B12W3AT4V4E10
(RC8005)	◇	CVLSWT TEST 580-0 B13W3AT4V4E10

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	10.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF NOSE LENGTH WITH HI-BYPASS RATIO ENGINES



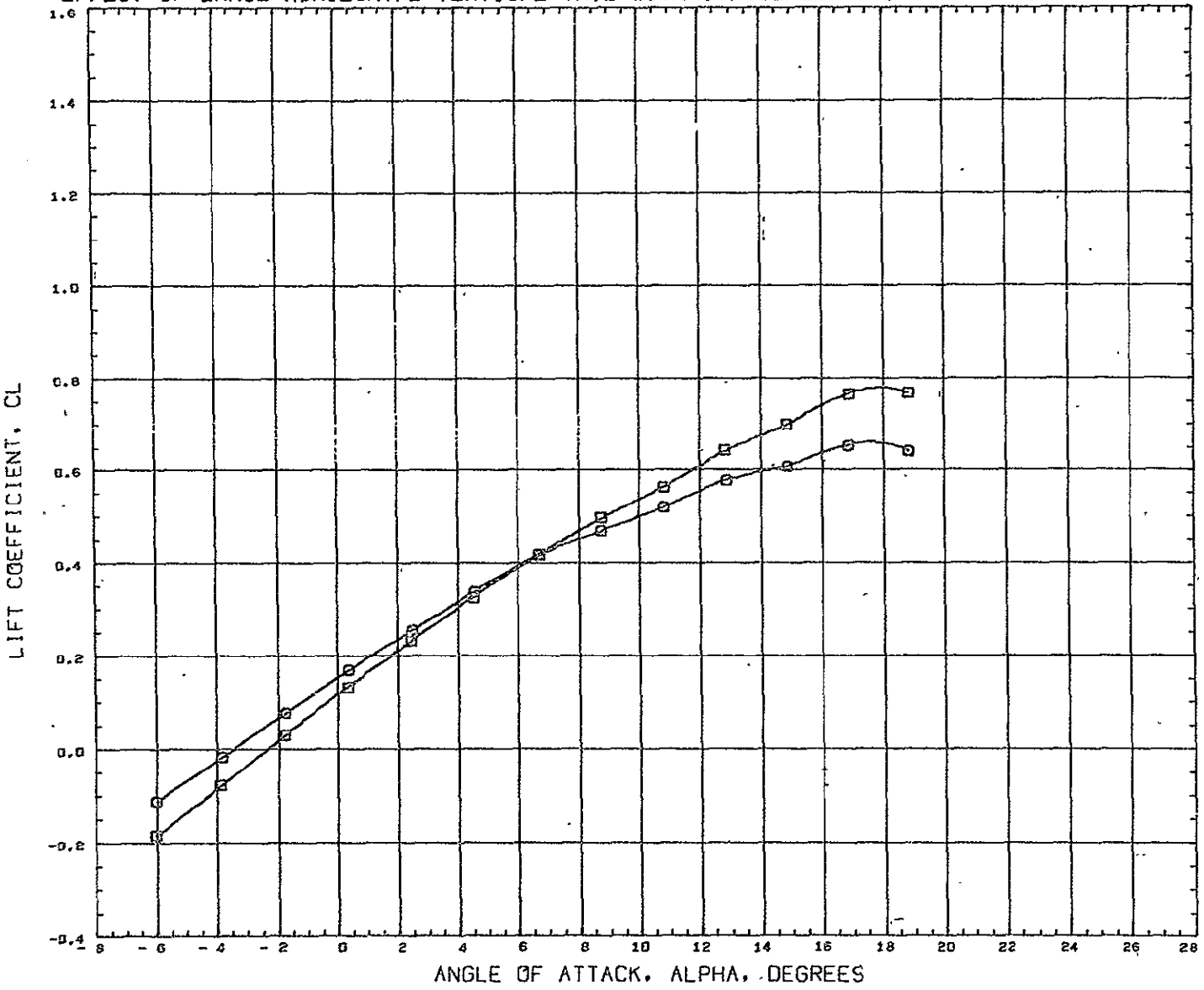
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8003)	○	CVLSWT TEST 580-0 B9W3AT4V4E10
(RC8019)	□	CVLSWT TEST 580-0 B12W3AT4V4E10
(RC8005)	◇	CVLSWT TEST 580-0 B13W3AT4V4E10

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	10.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LARGE HORIZONTAL-VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8039)	○	CVLSWT TEST 580-0 B9W3AT4V4E28
(RC8007)	□	CVLSWT TEST 580-0 B9W3AT5V5E28

PARAMETRIC VALUES

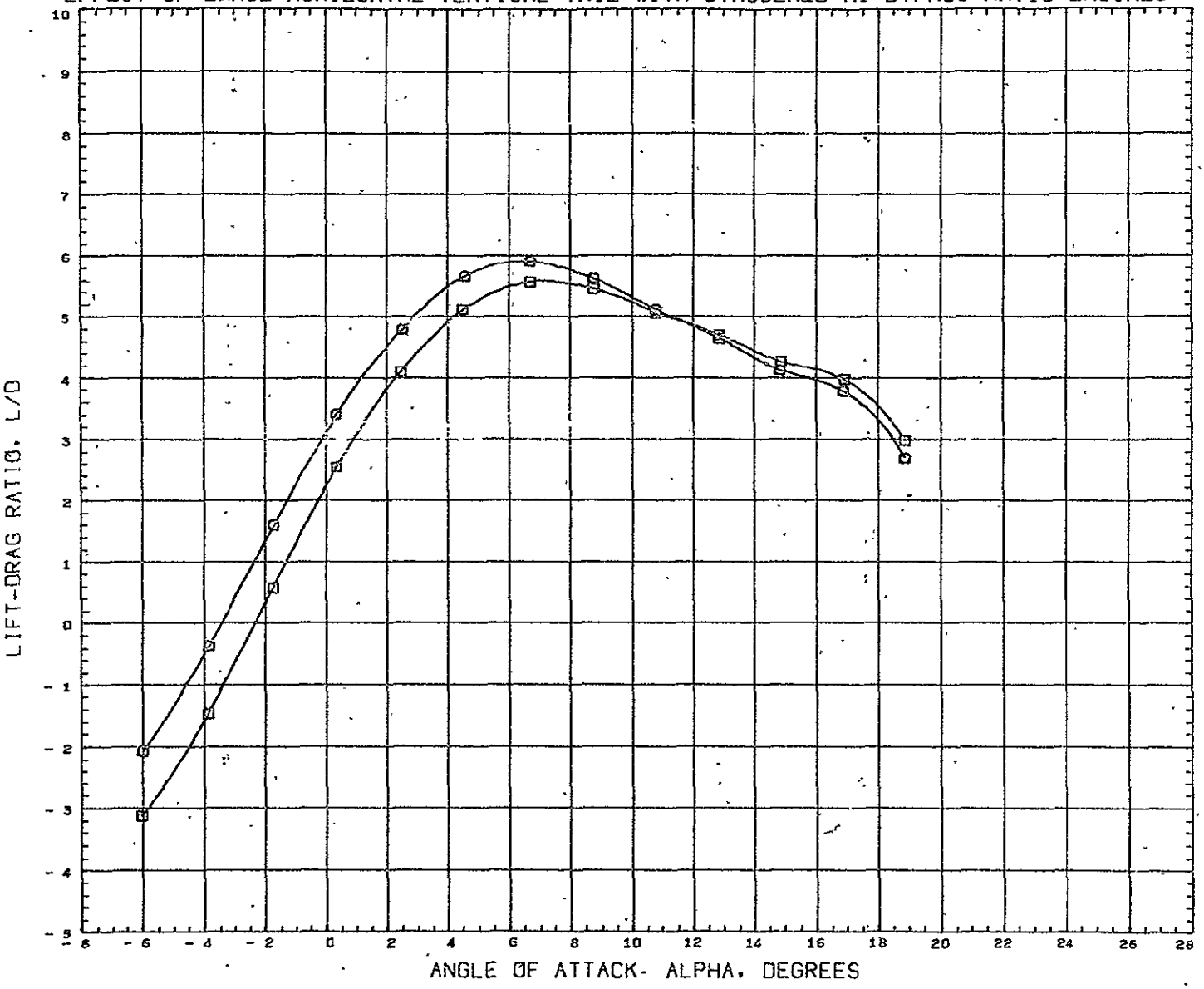
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF LARGE HORIZONTAL-VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES



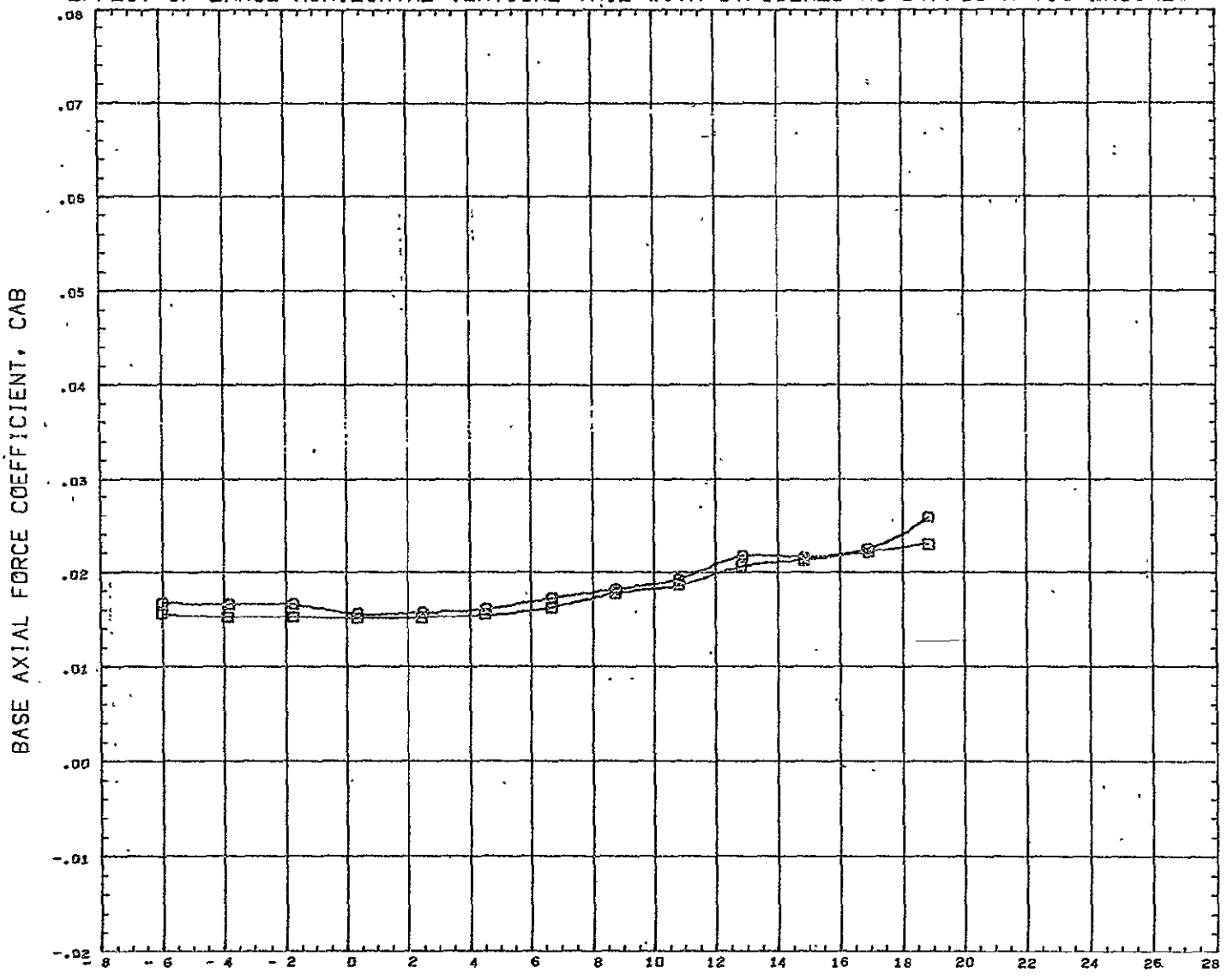
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8039)	○	CVLSWT TEST 580-D B9W3AT4V4E28
(RC8087)	□	CVLSWT TEST 580-D B9W3AT5V5E28

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XNRF	29.3920	IN
YNRF	0.0000	IN
ZNRF	0.0000	IN
SCALE	0.0175	

EFFECT OF LARGE HORIZONTAL-VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES

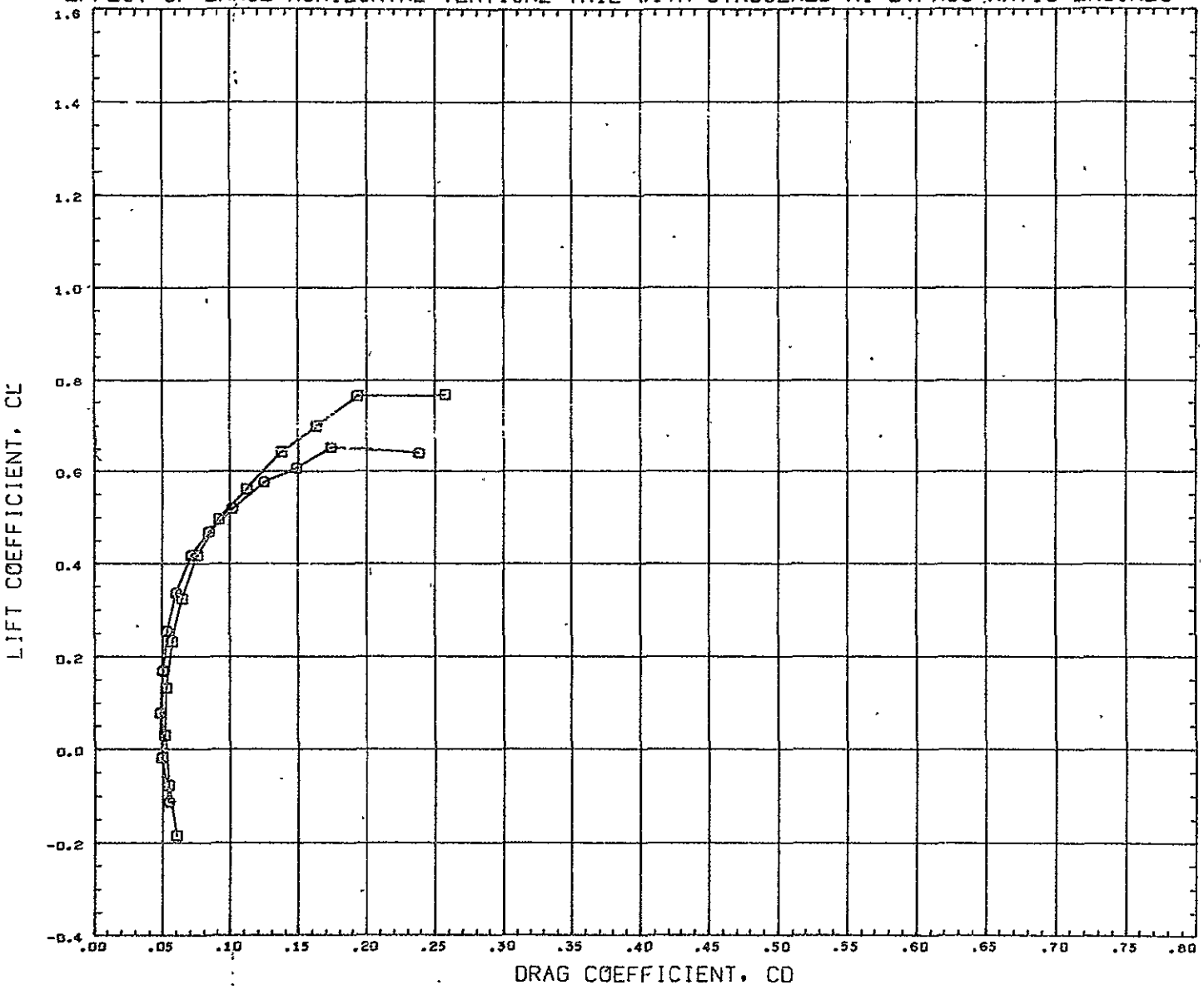


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8039)	○	CVLSWT TEST 580-0 B9W3AT4V4E28
(RC8087)	□	CVLSWT TEST 580-0 B9W3AT5V5E28

PARAMETRIC VALUES				REFERENCE INFORMATION		
BETA	0.000	ELEVTR	0.000	REFS	316.2304	SQ IN
RUDDER	0.000	FLAPS	0.000	REFL	50.1900	IN
SPOILR	0.000	ENGINE	28.000	REFB	7.3500	IN
				XMRP	29.3920	IN
				YMRP	0.0000	IN
				ZMRP	0.0000	IN
				SCALE	0.0175	

MACH 0.259

EFFECT OF LARGE HORIZONTAL-VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES



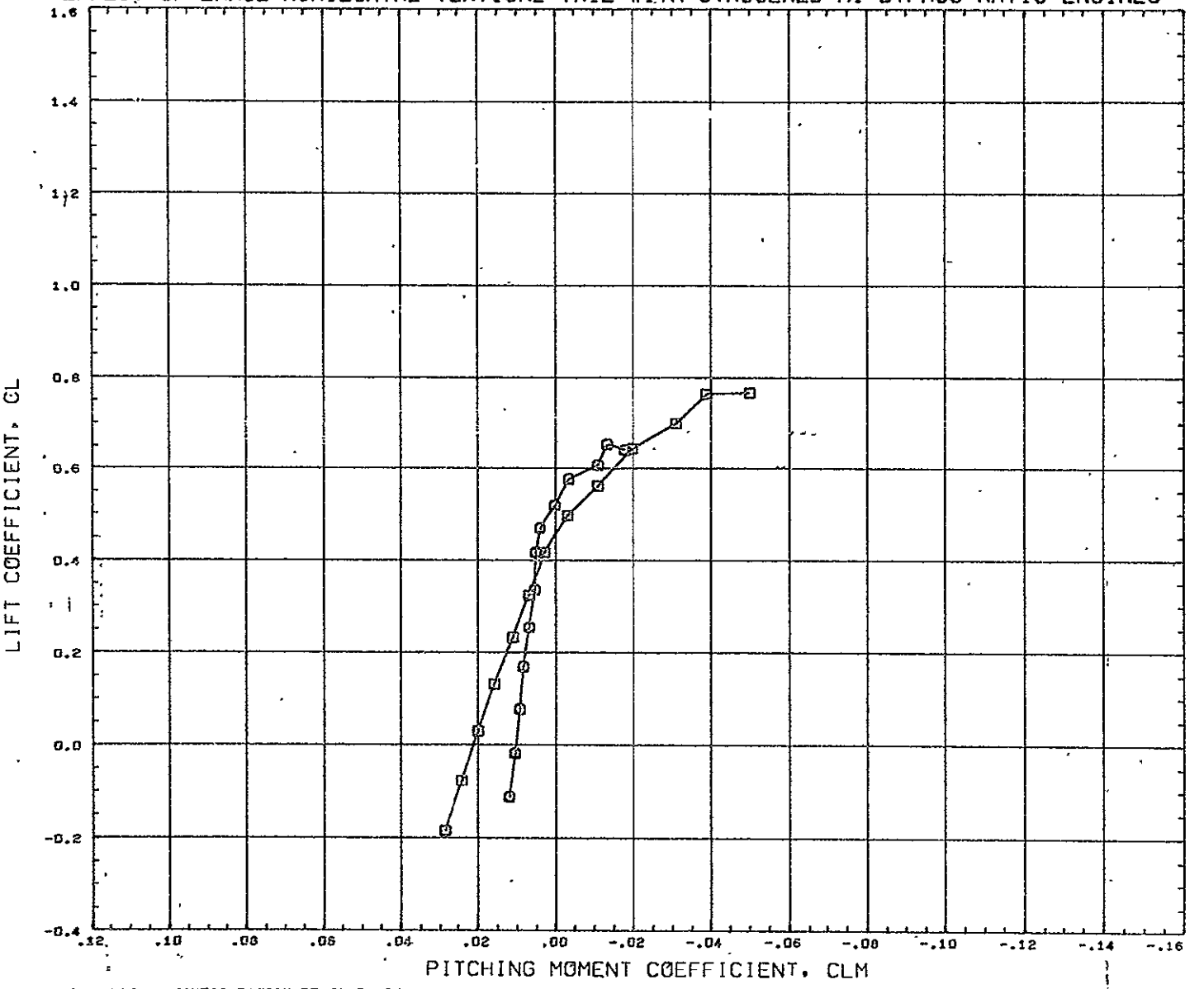
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8039)	○	CVLSWT TEST 580-D B9W3AT4V4E28
(RC8087)	□	CVLSWT TEST 580-D B9W3AT5V5E28

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LARGE HORIZONTAL-VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8039)	○	CVLSWT TEST 580-0 B9W3AT4V4E28
(RC8087)	□	CVLSWT TEST 580-0 B9W3AT5V5E28

MACH 0.259

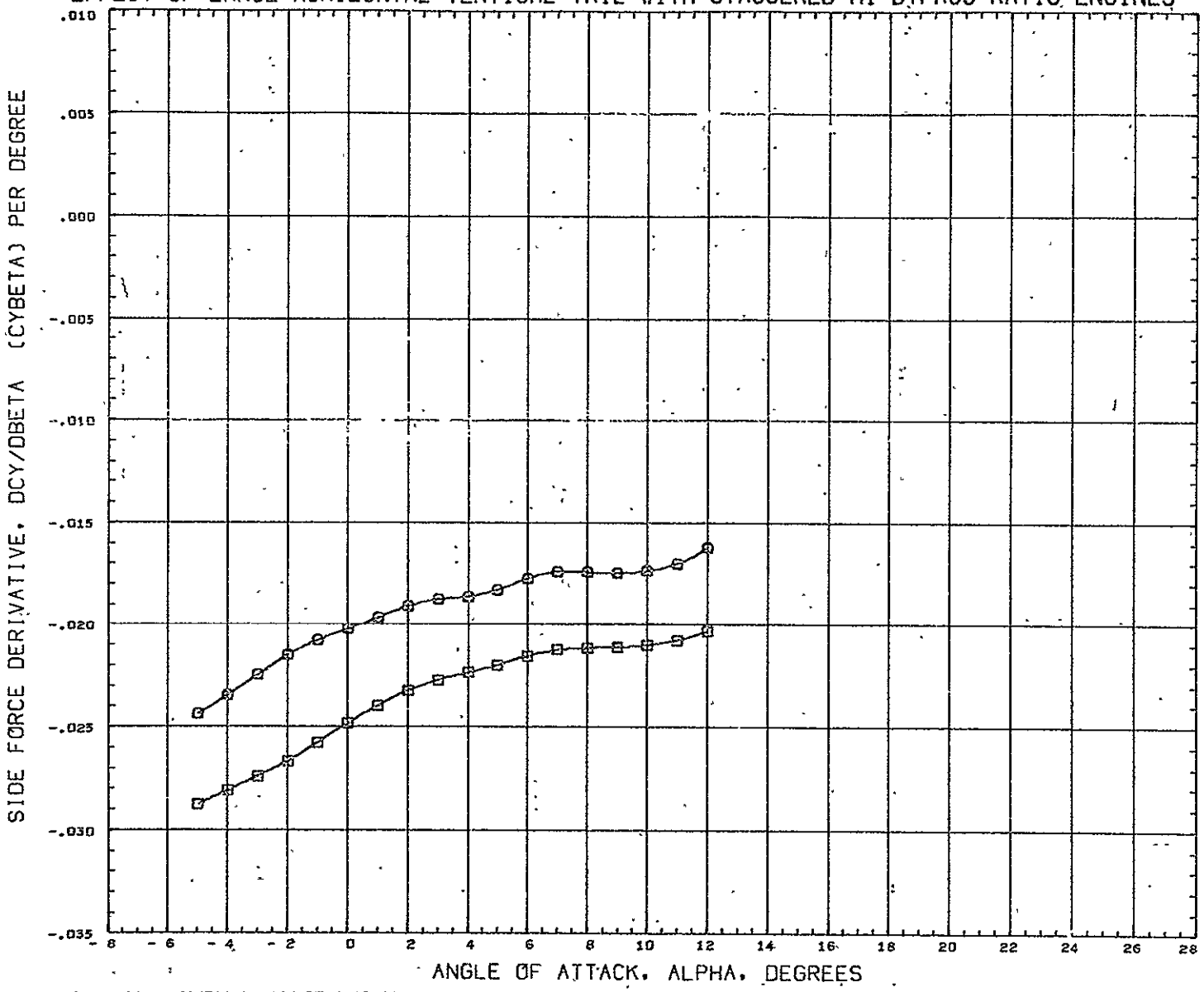
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LARGE HORIZONTAL-VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES



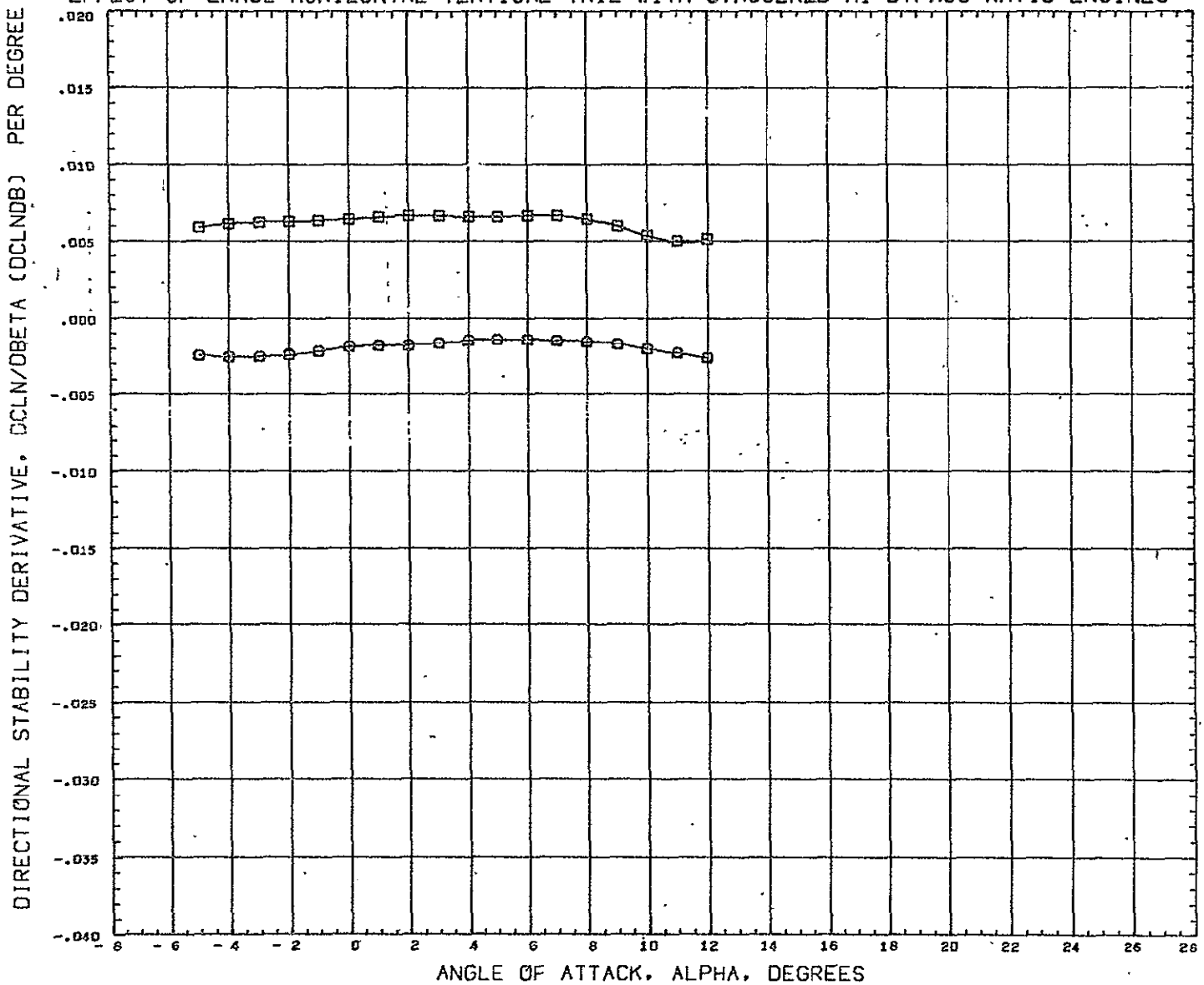
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FC6040)	O	CVLSWT TEST 580-D B9W3AT4V4E28
(FC6088)	□	CVLSWT TEST 580-D B9W3AT5V5E28

MACH 0.259

PARAMETRIC VALUES			
BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LARGE HORIZONTAL-VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES



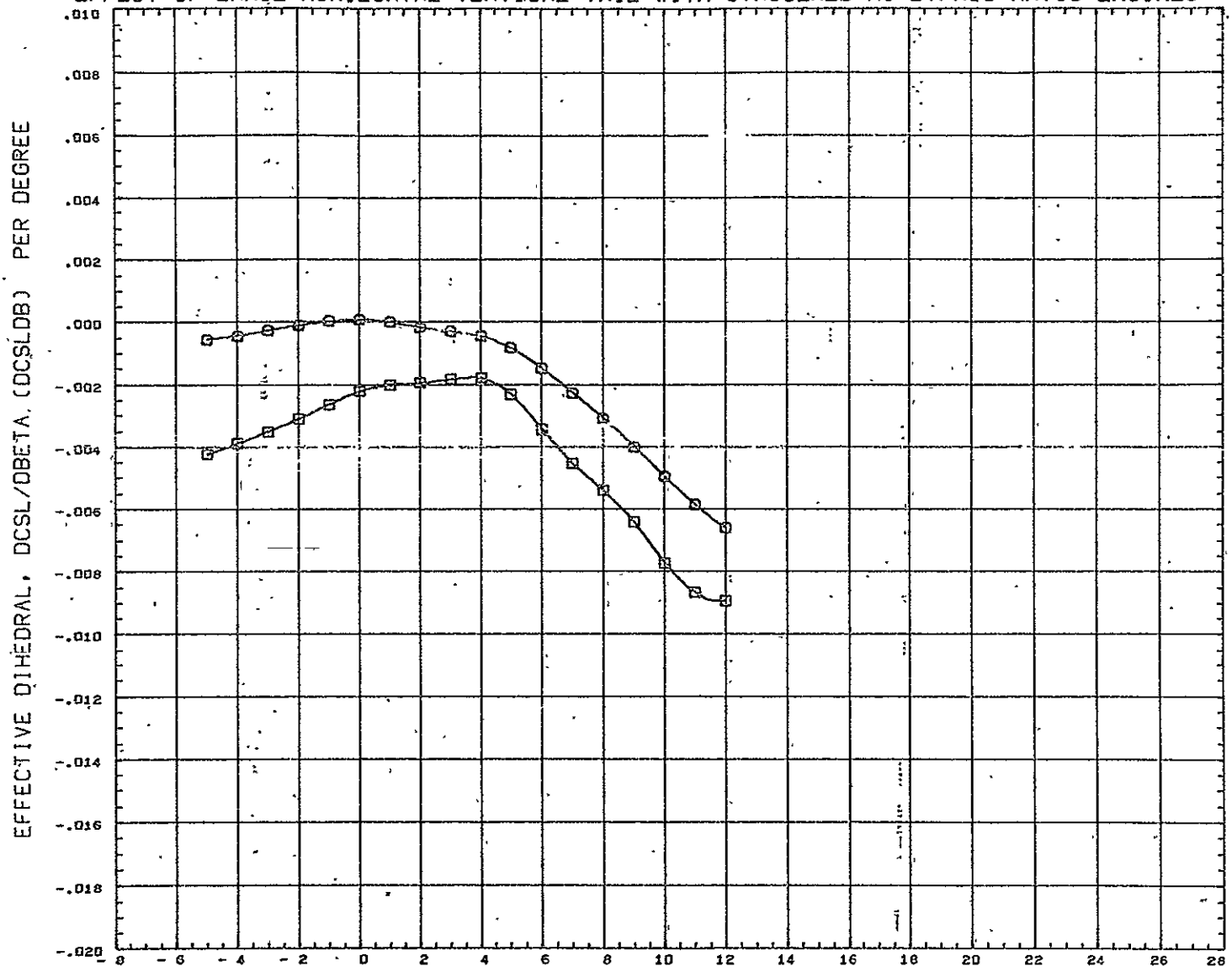
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FC8040)	○	CVLSWT TEST 580-0 B9W3AT4V4E28
(FC8088)	□	CVLSWT TEST 580-0 B9W3AT5V5E28

PARAMETRIC VALUES			
BETA	-4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF LARGE HORIZONTAL-VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES



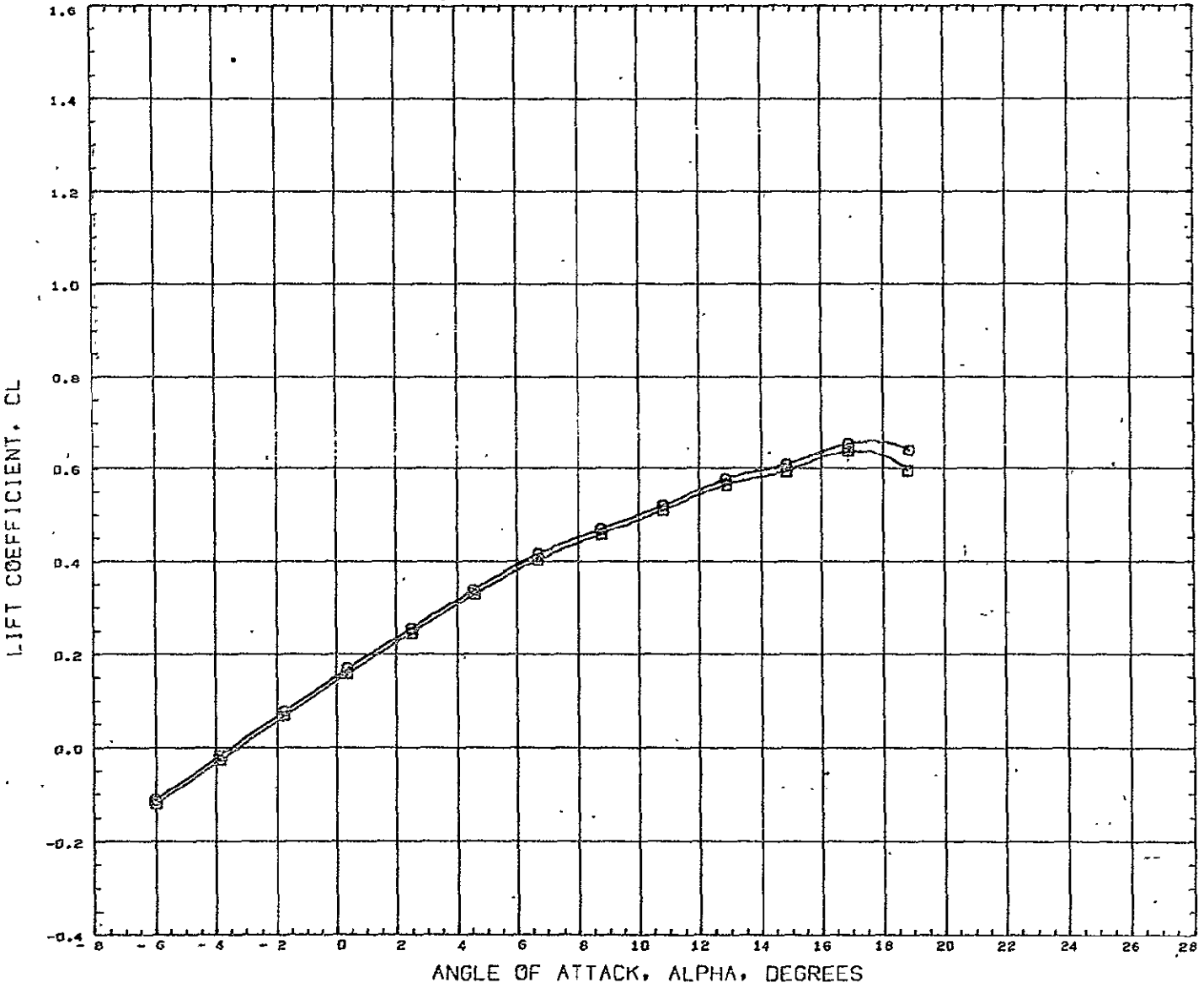
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(PC8040)	O	CVLSWT TEST 580-0 B9W3AT4V4E28
(PC8088)	□	CVLSWT TEST 580-0 B9W3AT5V5E28

MACH 0.259

PARAMETRIC VALUES			
BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

EFFECT OF LARGE VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES



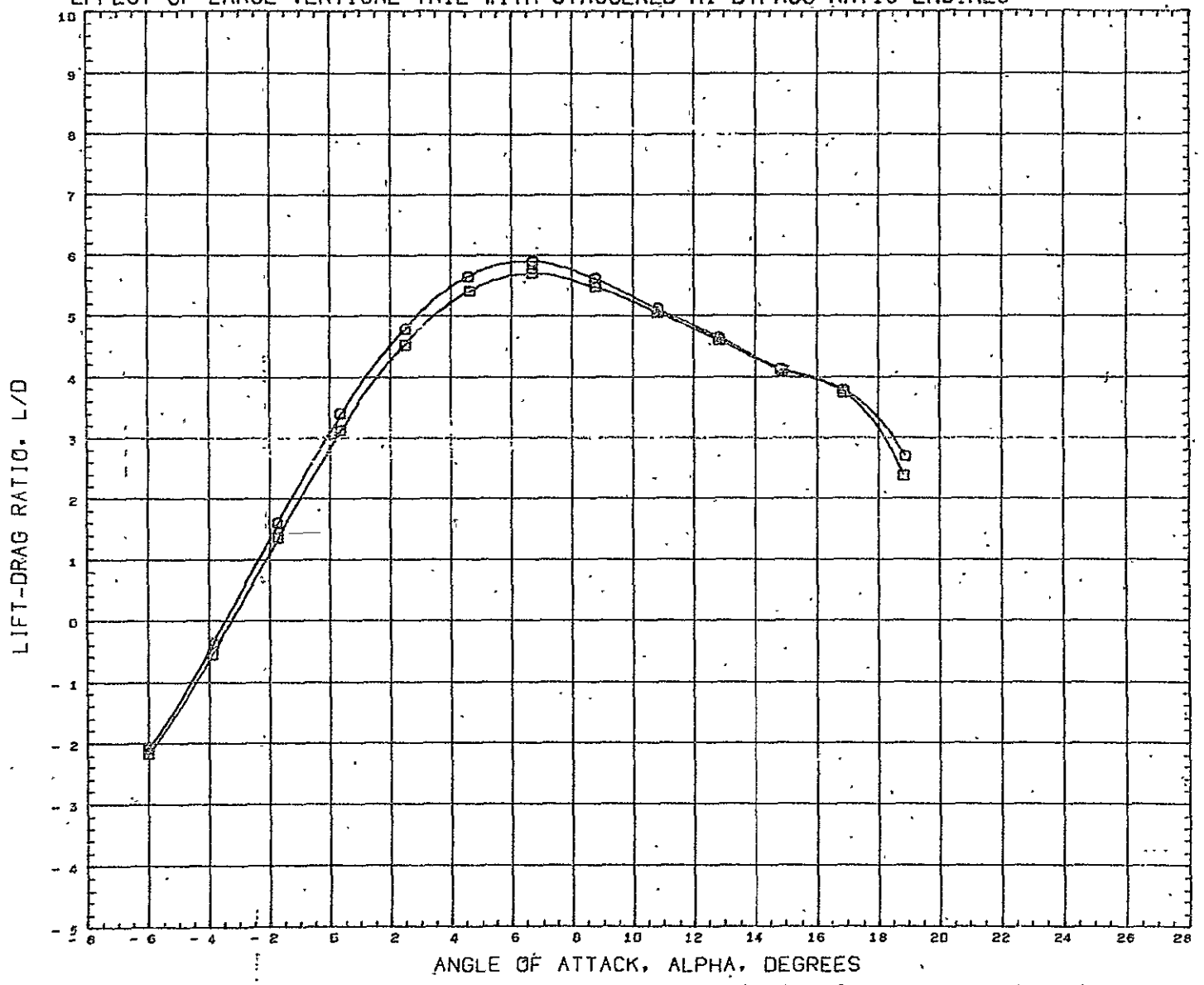
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8039)	○	CVLSWT TEST 580-0 B9W3AT4V4E28
(RC8090)	□	CVLSWT TEST 580-0 B9W3AT4V5E28

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LARGE VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES



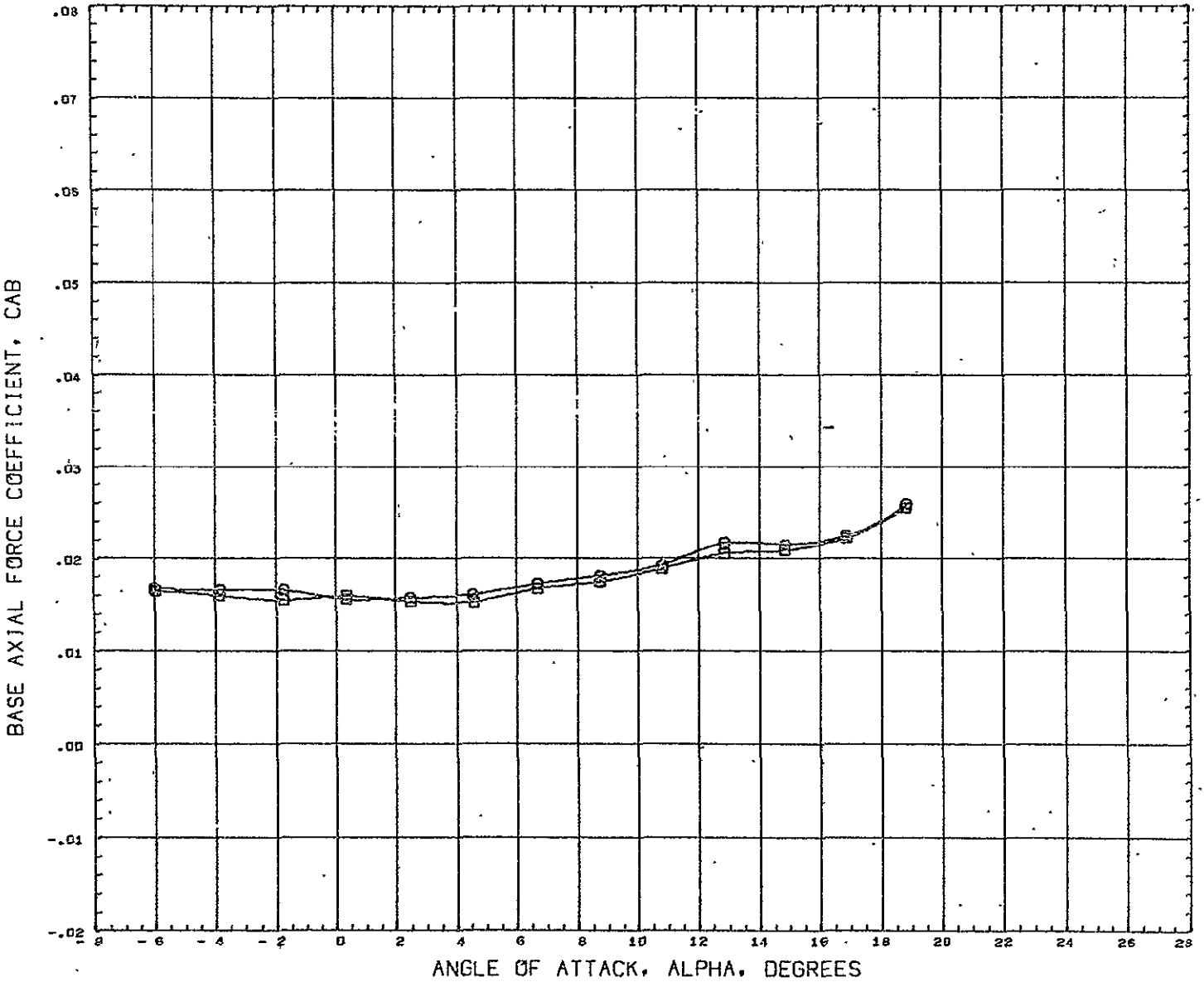
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8039)	○	CVLSWT TEST 580-0 B9W3AT4V4E28
(RC8090)	□	CVLSWT TEST 580-0 B9W3AT4V5E28

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LARGE VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES



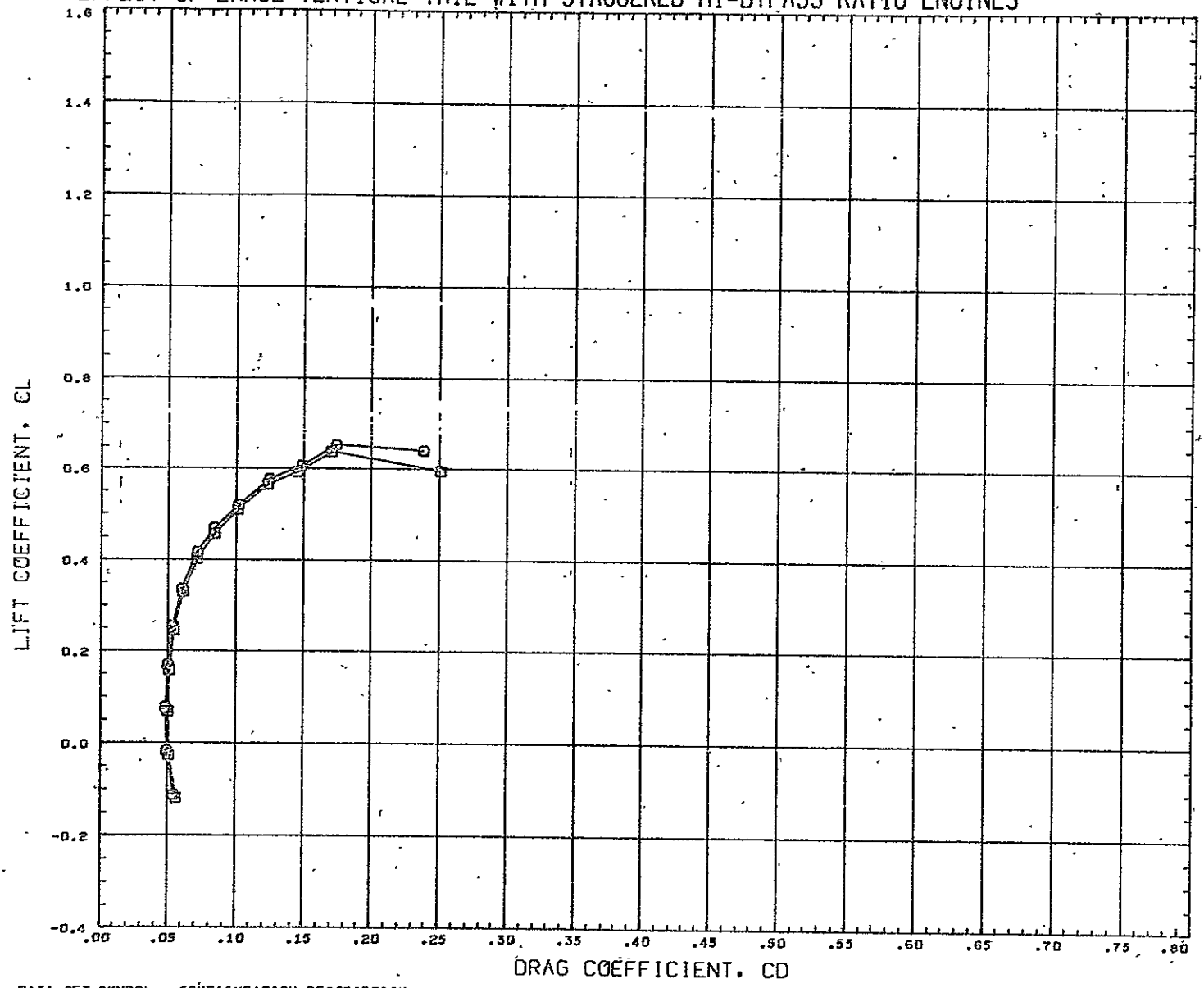
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8039)	O	CVLSWT TEST 580-0 B9W3AT4V4E28
(RC8090)	□	CVLSWT TEST 580-0 B9W3AT4V5E28

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LARGE VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8035)	○	CVLSWT TEST 580-0 B9W3AT4V4E28
(RC8090)	□	CVLSWT TEST 580-0 B9W3AT4V5E28

MACH 0.259

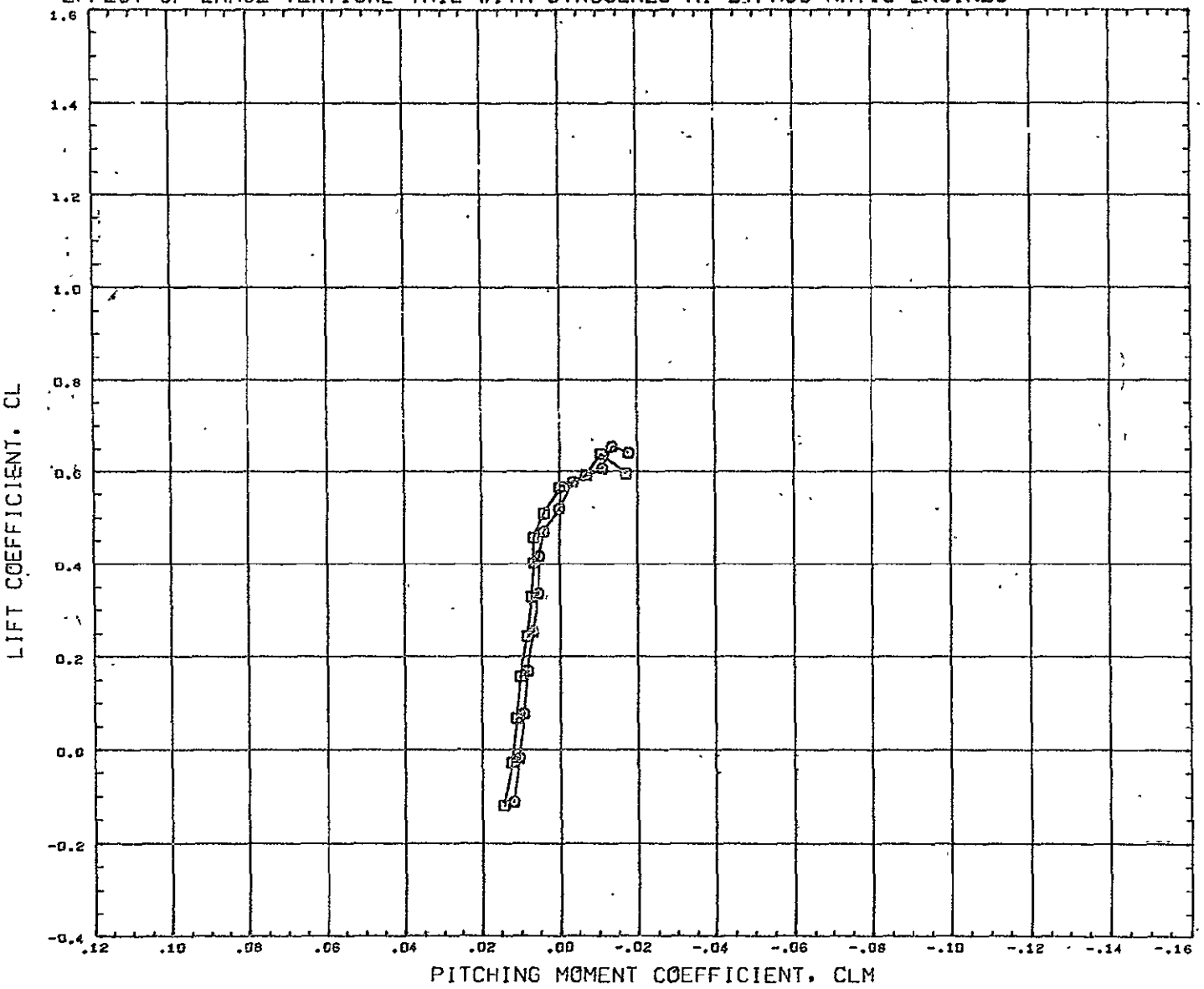
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

EFFECT OF LARGE VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES



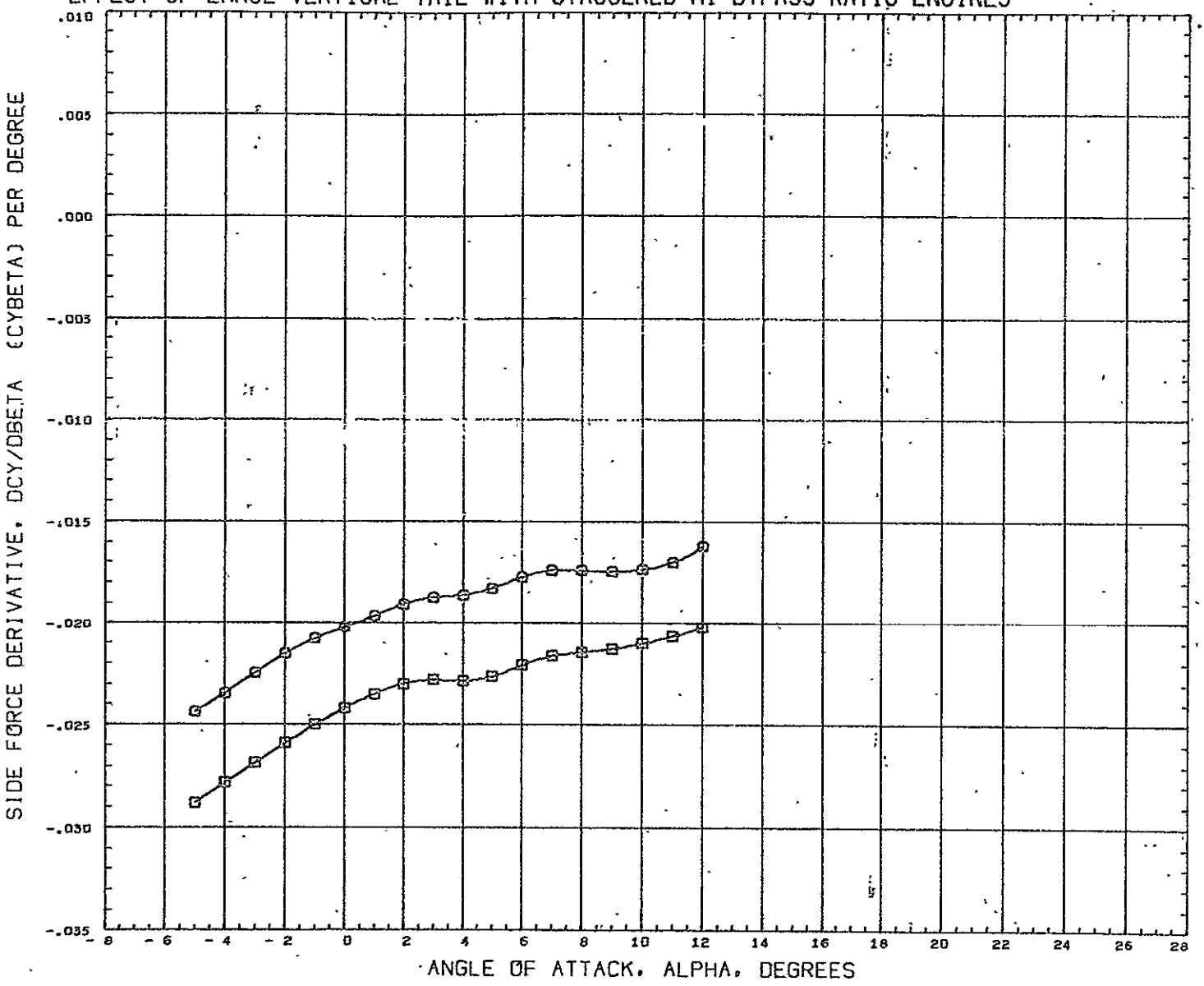
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8039)	□	CVLSWT TEST 580-0 B9W3AT4V4E28
(RC8095)	□	CVLSWT TEST 580-0 B9W3AT4V5E28

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF LARGE VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(FC8040)	○	CVLSWT TEST 580-0 B9W3AT4V4E28
(FC8091)	□	CVLSWT TEST 580-0 B9W3AT4V5E28

MACH 0.259

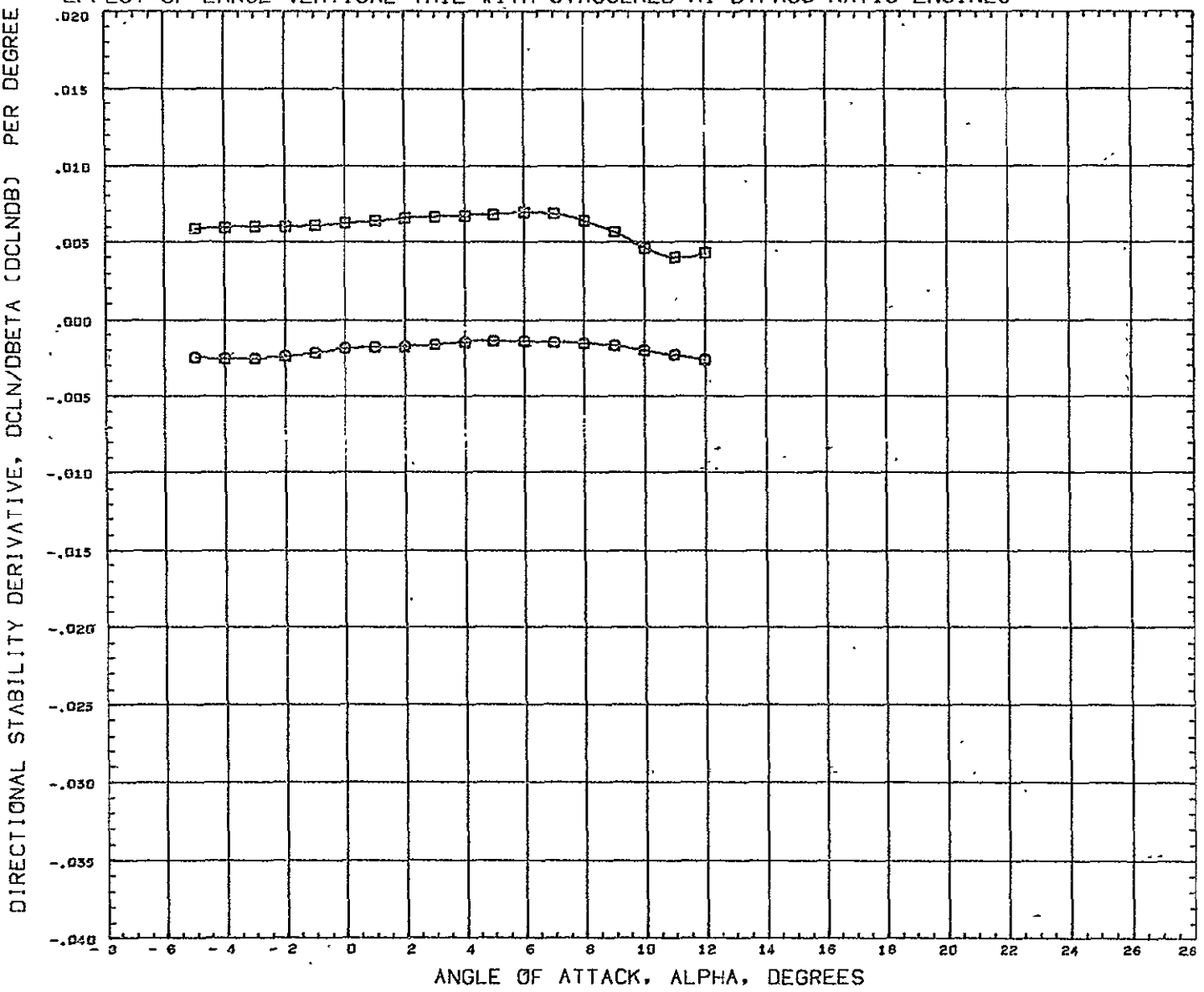
PARAMETRIC VALUES

BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LARGE VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES



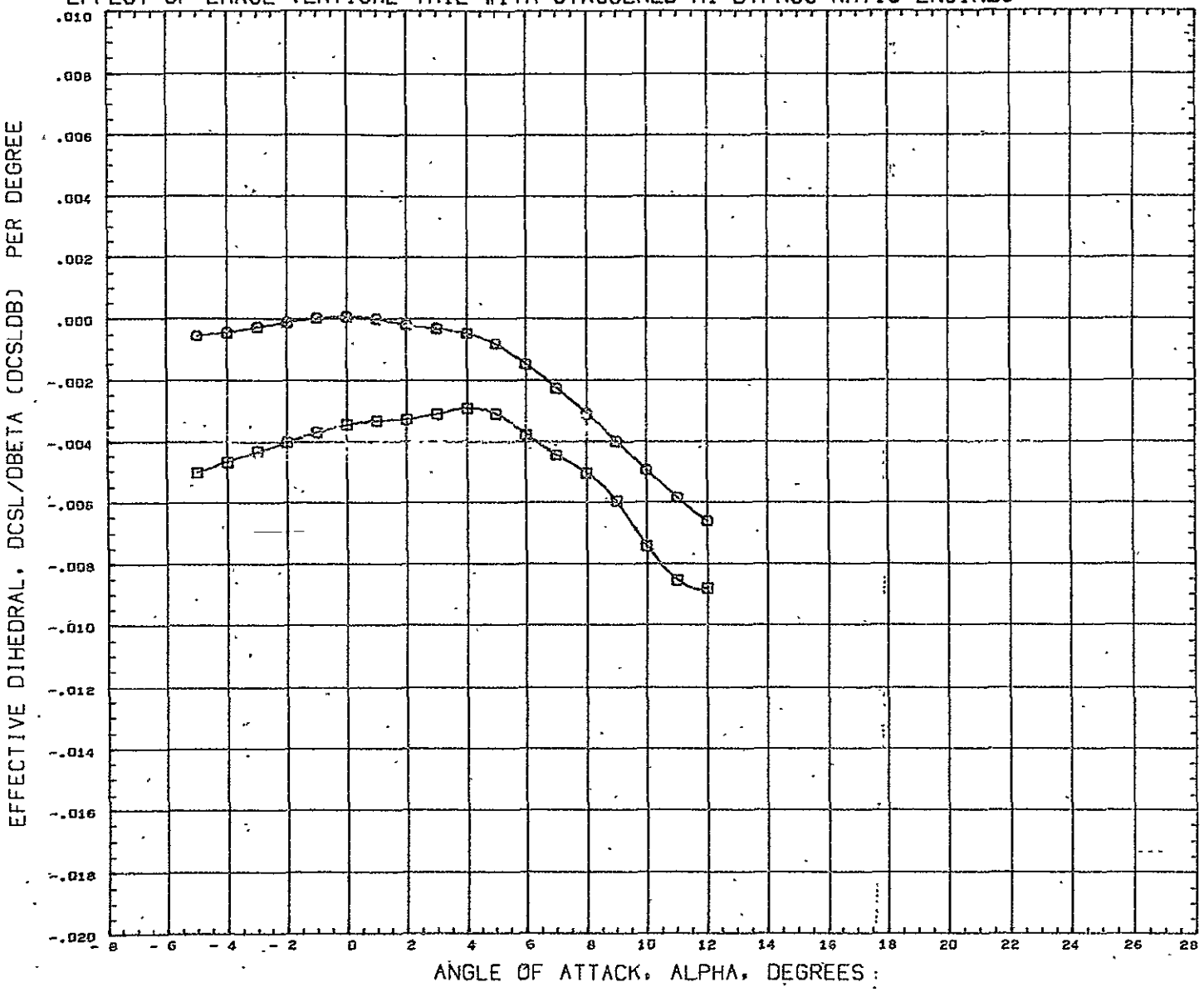
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(PC8040)	○	CVLSWT TEST 580-D B9W3AT4V4E28
(PC8091)	□	CVLSWT TEST 580-D B9W3AT4V5E28

MACH 0.259

PARAMETRIC VALUES			
BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

EFFECT OF LARGE VERTICAL TAIL WITH STAGGERED HI-BYPASS RATIO ENGINES

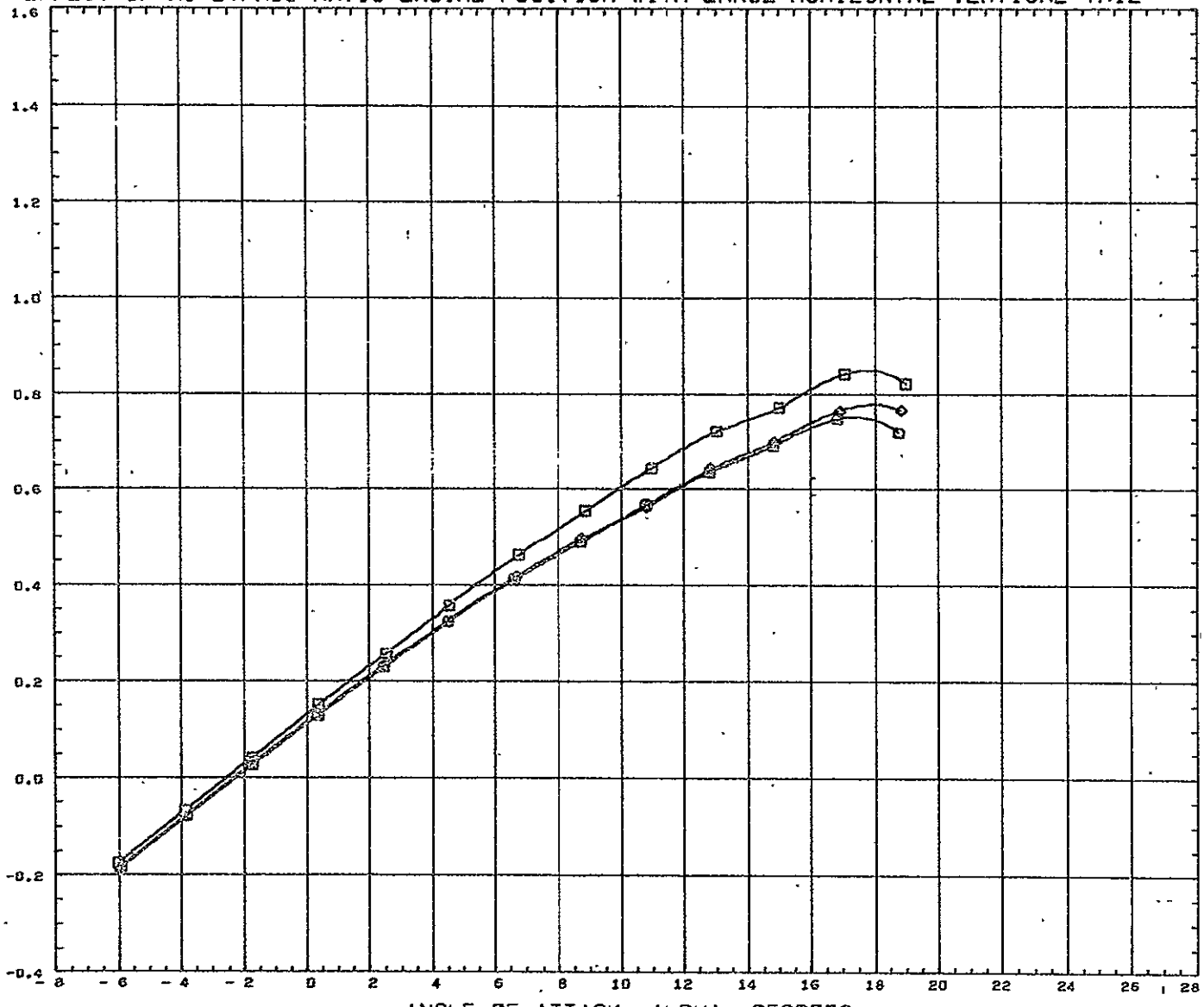


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(FC8040)	○	CVLSWT TEST 580-0 B9W3AT4V4E28
(FC8091)	□	CVLSWT TEST 580-0 B9W3AT4V5E28

MACH 0.259

PARAMETRIC VALUES						REFERENCE INFORMATION		
BETA	- 4.000	ELEVTR	0.000		REFS	316.2304	SQ IN
RUDDER	0.000	FLAPS	0.000		REFL	50.1900	IN
SPOILR	0.000	ENGINE	28.000		REFB	7.3500	IN
					XMRF	29.3920	IN
					YMRF	0.0000	IN
					ZMRF	0.0000	IN
					SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO ENGINE POSITION WITH LARGE HORIZONTAL VERTICAL TAIL



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8092)	○	CVLSWT TEST 580-0 B9W3AT5V5
(RC8098)	□	CVLSWT TEST 580-0 B9W3AT5V5E13
(RC8087)	◇	CVLSWT TEST 580-0 B9W3AT5V5E28

MACH 0.259

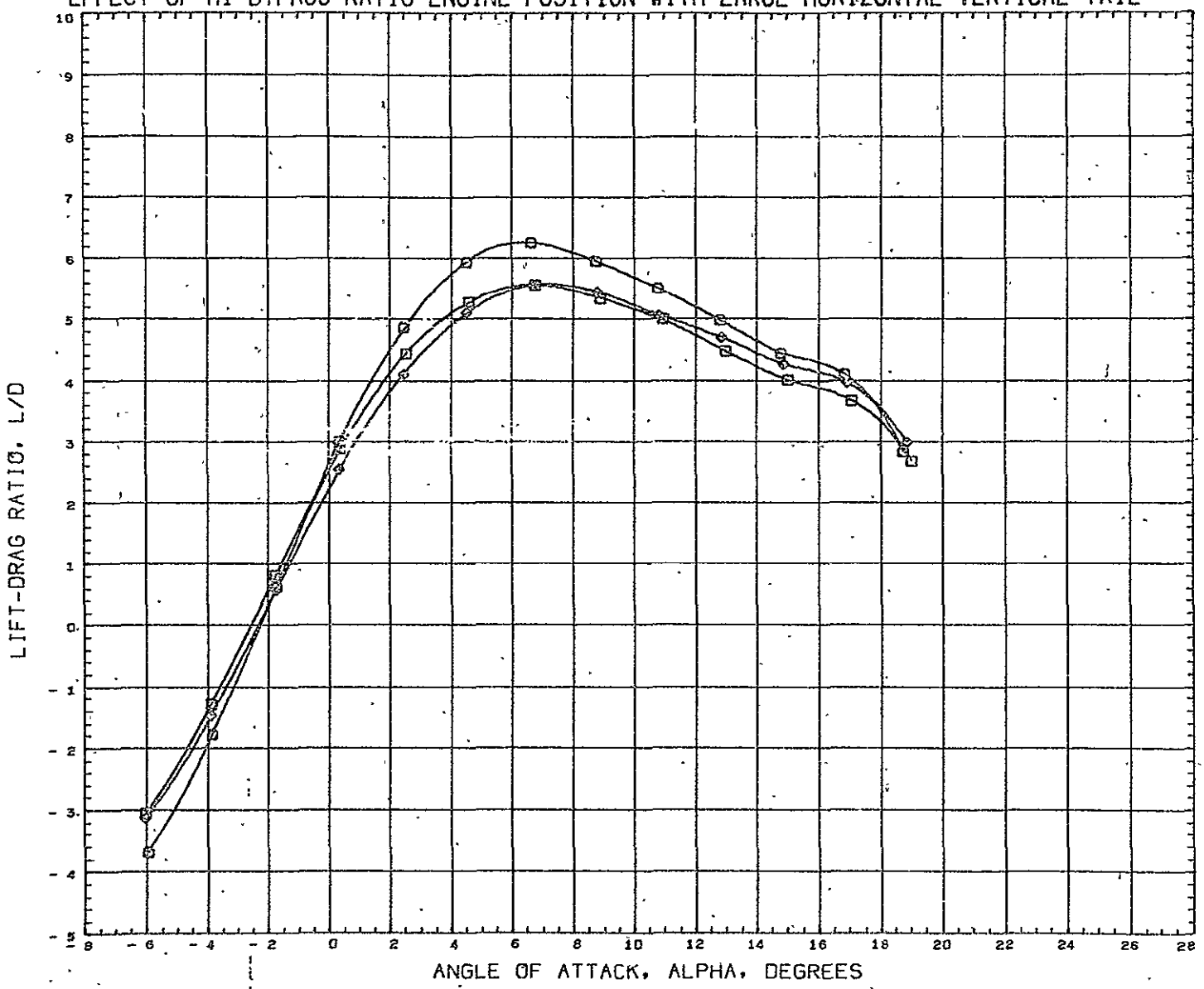
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO ENGINE POSITION WITH LARGE HORIZONTAL VERTICAL TAIL



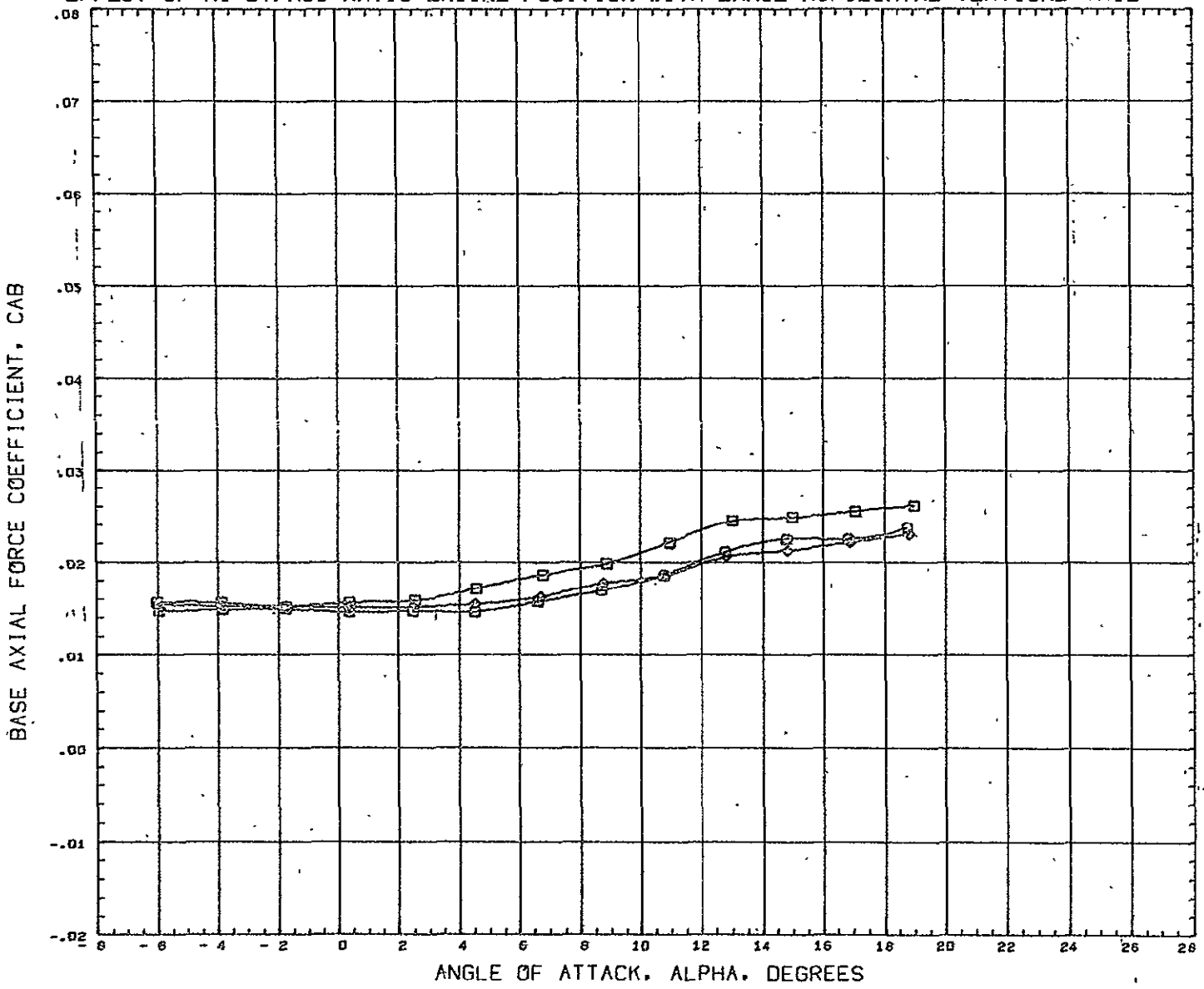
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8092)	○	CVLSWT TEST 580-0 B9W3AT5V5
(RC8098)	□	CVLSWT TEST 580-0 B9W3AT5V5E13
(RC8087)	◇	CVLSWT TEST 580-0 B9W3AT5V5E28

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO ENGINE POSITION WITH LARGE HORIZONTAL VERTICAL TAIL



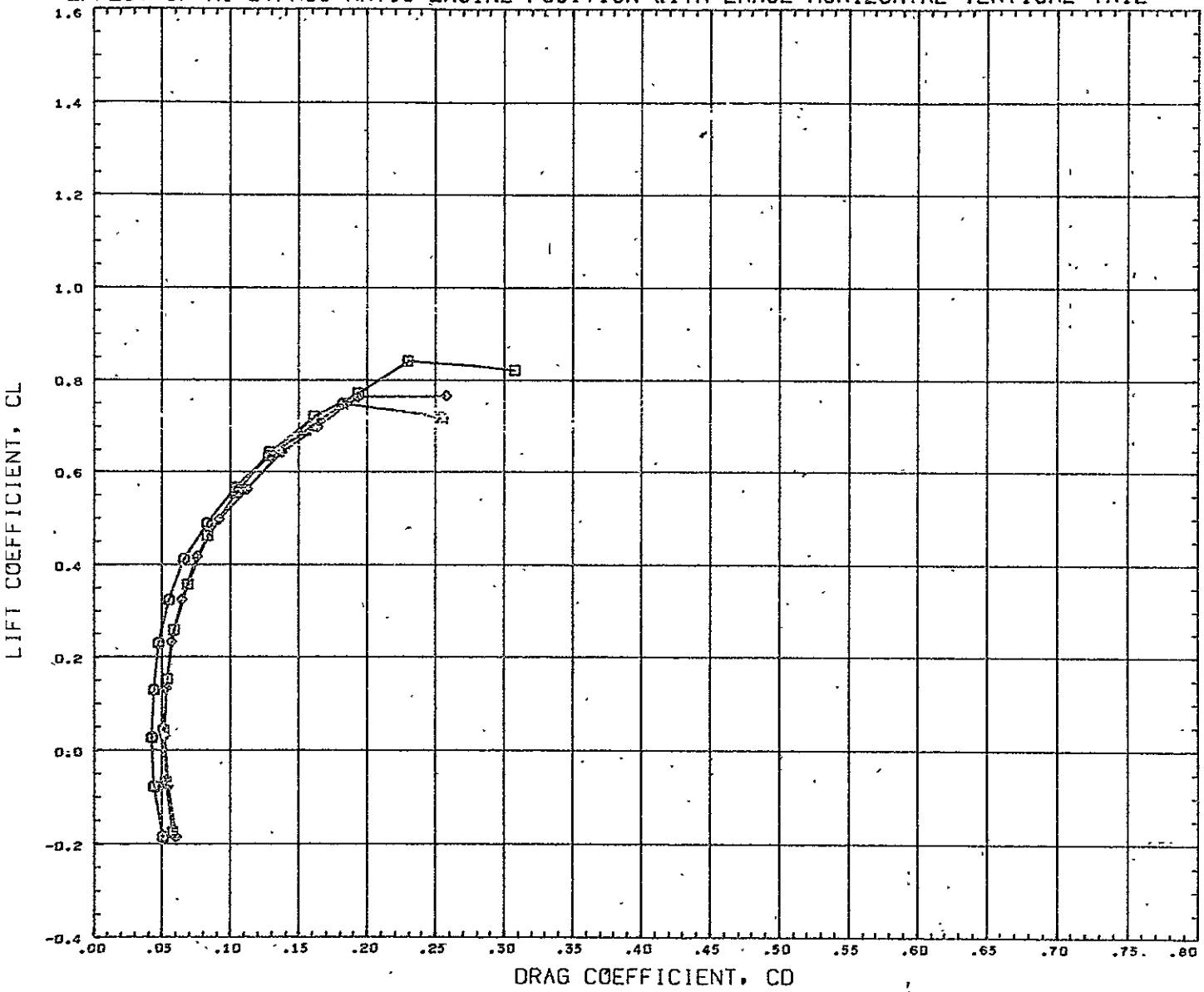
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC0092)	○	CVLSWT TEST 580-0 B9W3AT5V5
(RC0098)	□	CVLSWT TEST 580-0 B9W3AT5V5E13
(RC0087)	◇	CVLSWT TEST 580-0 B9W3AT5V5E28

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO ENGINE POSITION WITH LARGE HORIZONTAL VERTICAL TAIL



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8092)	□	CVLSWT TEST 580-D B9W3AT5V5
(RC8098)	□	CVLSWT TEST 580-D B9W3AT5V5E13
(RC8087)	◇	CVLSWT TEST 580-D B9W3AT5V5E28

MACH 0.259

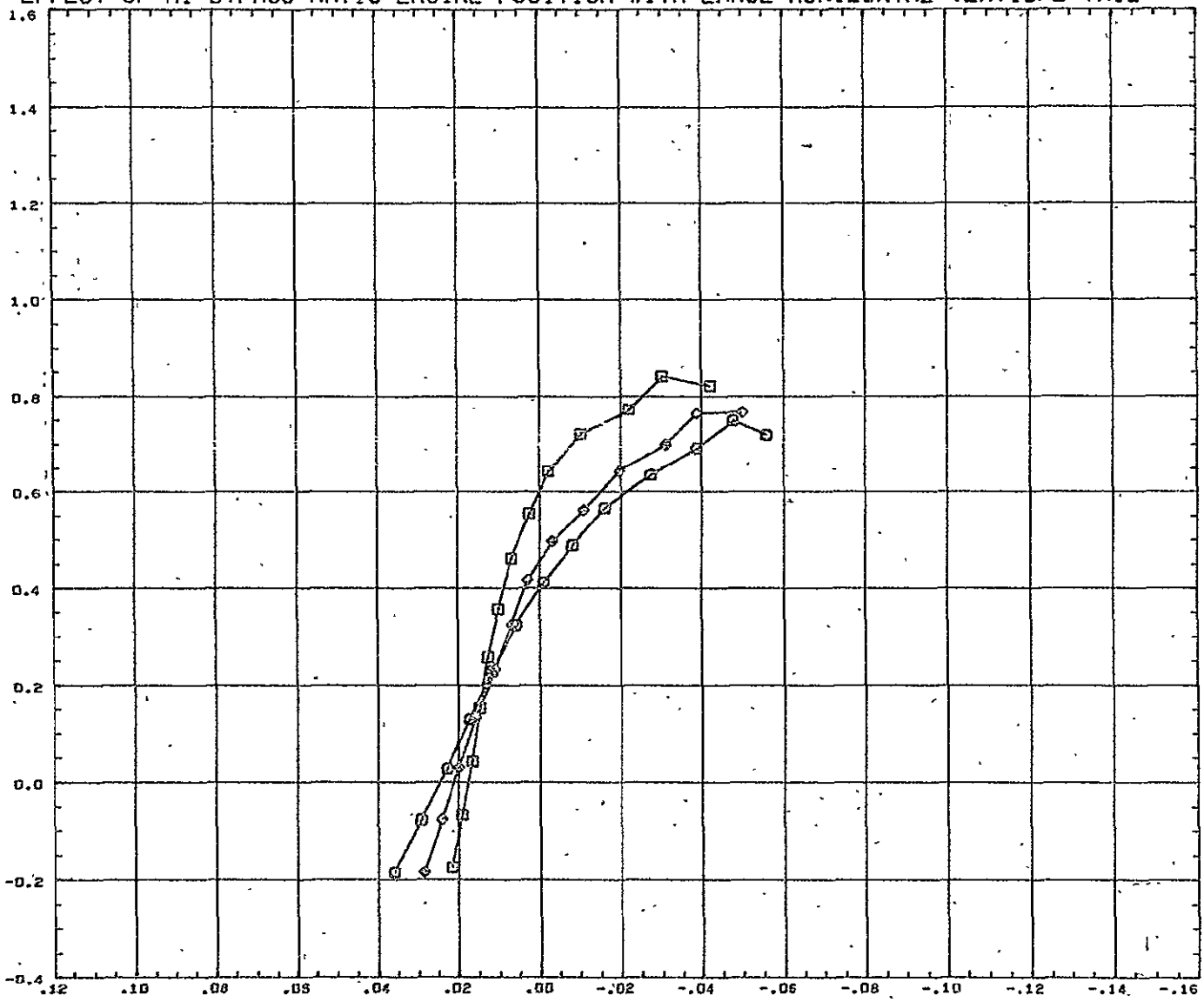
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO ENGINE POSITION WITH LARGE HORIZONTAL VERTICAL TAIL



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8092)	○	CVLSWT TEST 580-0 B9W3AT5V5
(RC8098)	□	CVLSWT TEST 580-0 B9W3AT5V5E13
(RC8087)	◇	CVLSWT TEST 580-0 B9W3AT5V5E28

MACH 0.259

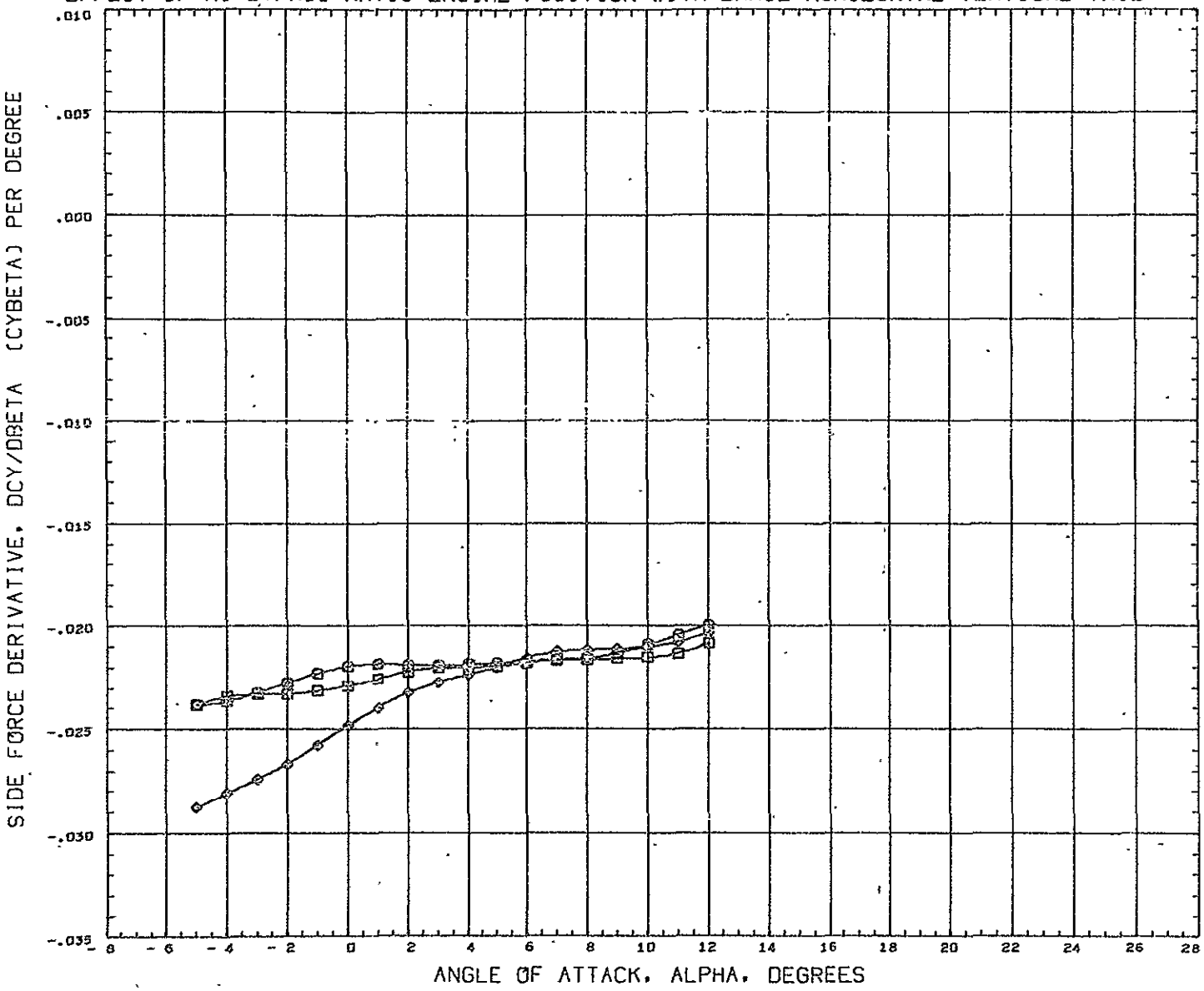
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO ENGINE POSITION WITH LARGE HORIZONTAL VERTICAL TAIL



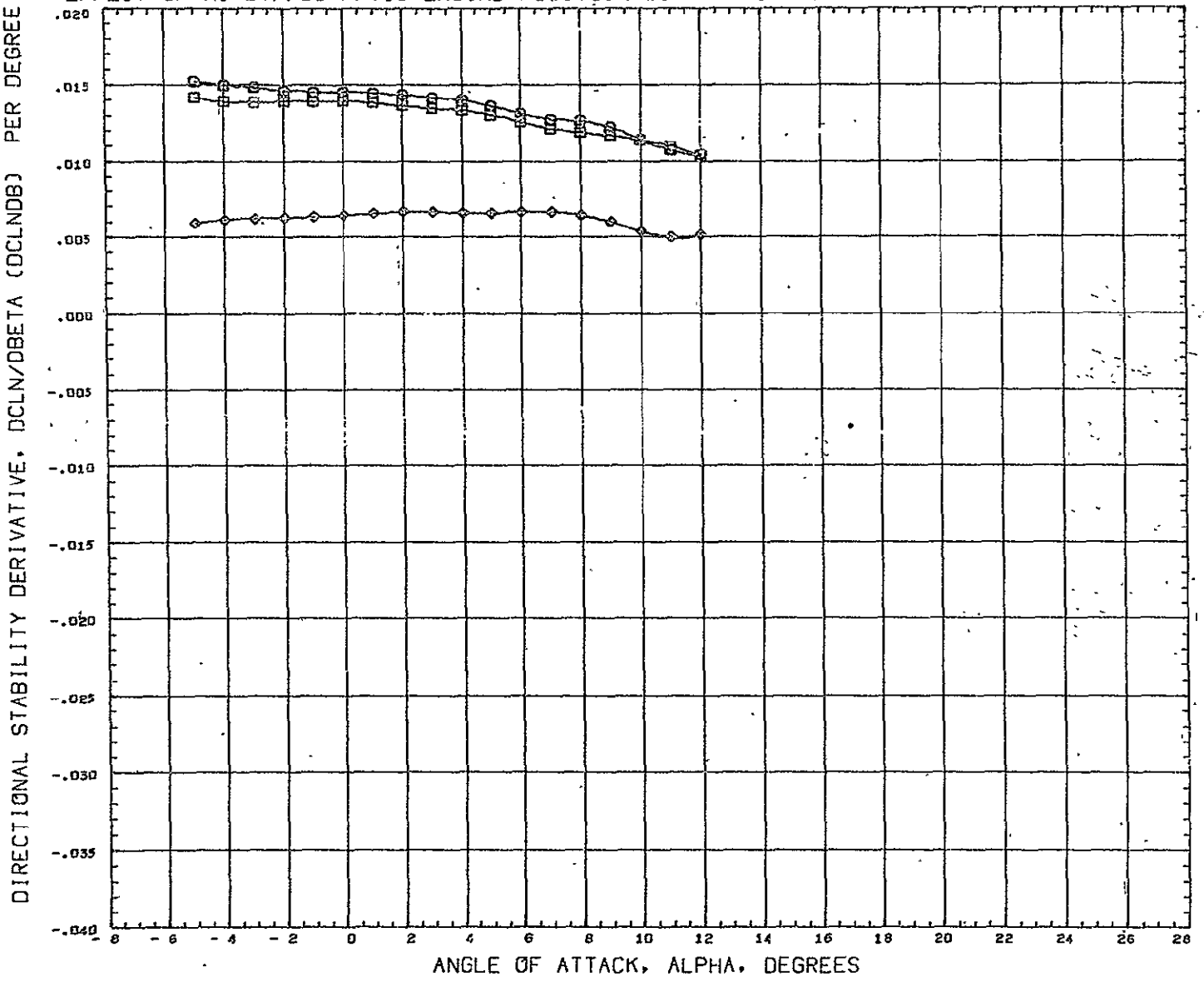
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PC8093)	○	CVLSWT TEST 580-0 B9W3AT5V5
(PC8099)	□	CVLSWT TEST 580-0 B9W3AT5V5E13
(PC8088)	◇	CVLSWT TEST 580-0 B9W3AT5V5E28

MACH 0.259

PARAMETRIC VALUES			
BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO ENGINE POSITION WITH LARGE HORIZONTAL VERTICAL TAIL

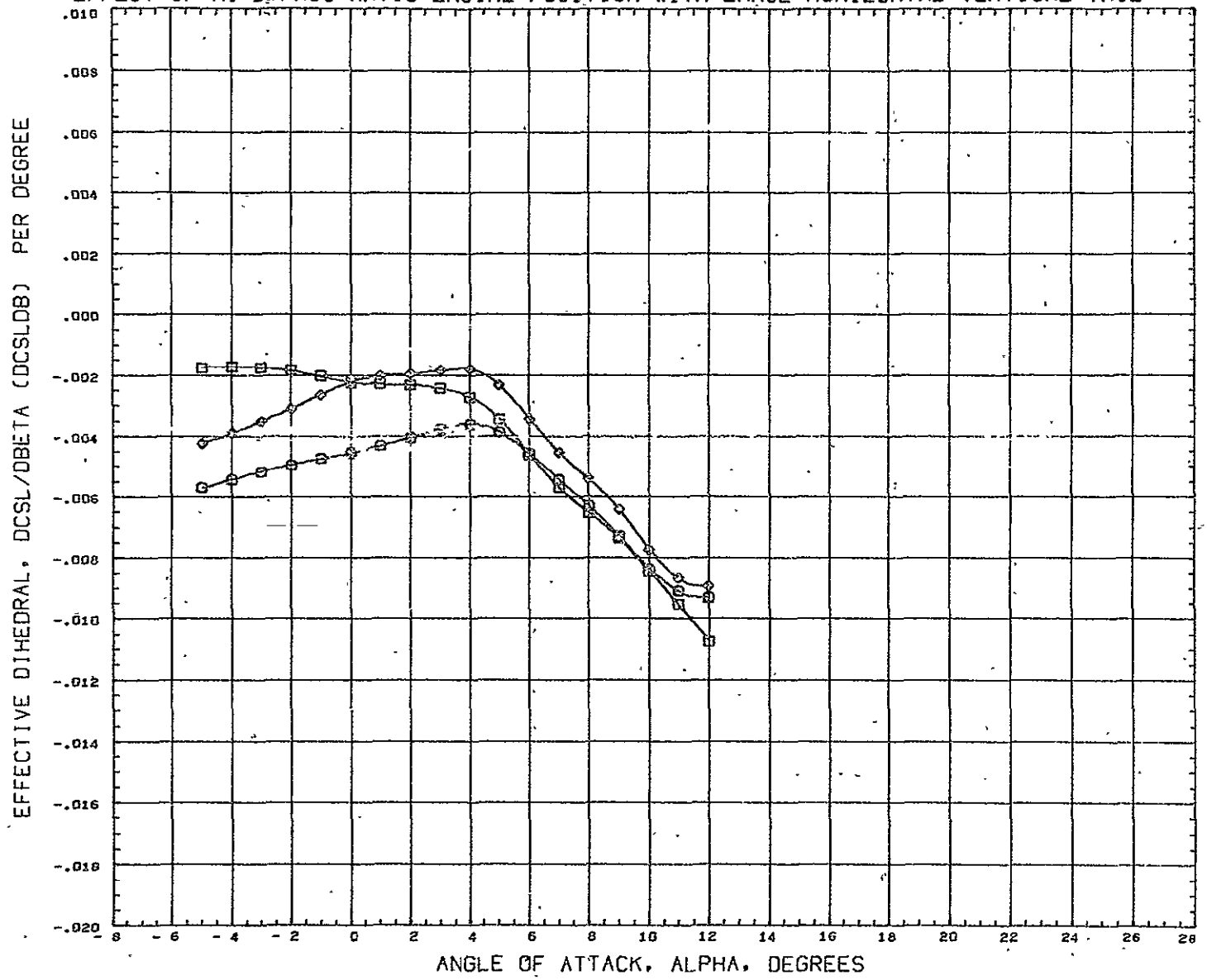


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FC8093)	○	CVLSWT TEST 580-0 B9W3AT5V5
(FC8099)	□	CVLSWT TEST 580-0 B9W3AT5V5E13
(FC8088)	◇	CVLSWT TEST 580-0 B9W3AT5V5E28

MACH 0.259

PARAMETRIC VALUES				REFERENCE INFORMATION		
BETA	-4.000	ELEVTR	0.000	REFS	316.2304	SQ IN
RUDDER	0.000	FLAPS	0.000	REFL	50.1900	IN
SPOILR	0.000			REFB	7.3500	IN
				XMRP	29.3920	IN
				YMRP	0.0000	IN
				ZMRP	0.0000	IN
				SCALE	0.0175	

EFFECT OF HI-BYPASS RATIO ENGINE POSITION WITH LARGE HORIZONTAL VERTICAL TAIL



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(FC8093)	○	CVLSWT TEST 580-0 B9W3AT5V5
(FC8099)	□	CVLSWT TEST 580-0 B9W3AT5V5E13
(FC8088)	◇	CVLSWT TEST 580-0 B9W3AT5V5E28

MACH 0.259

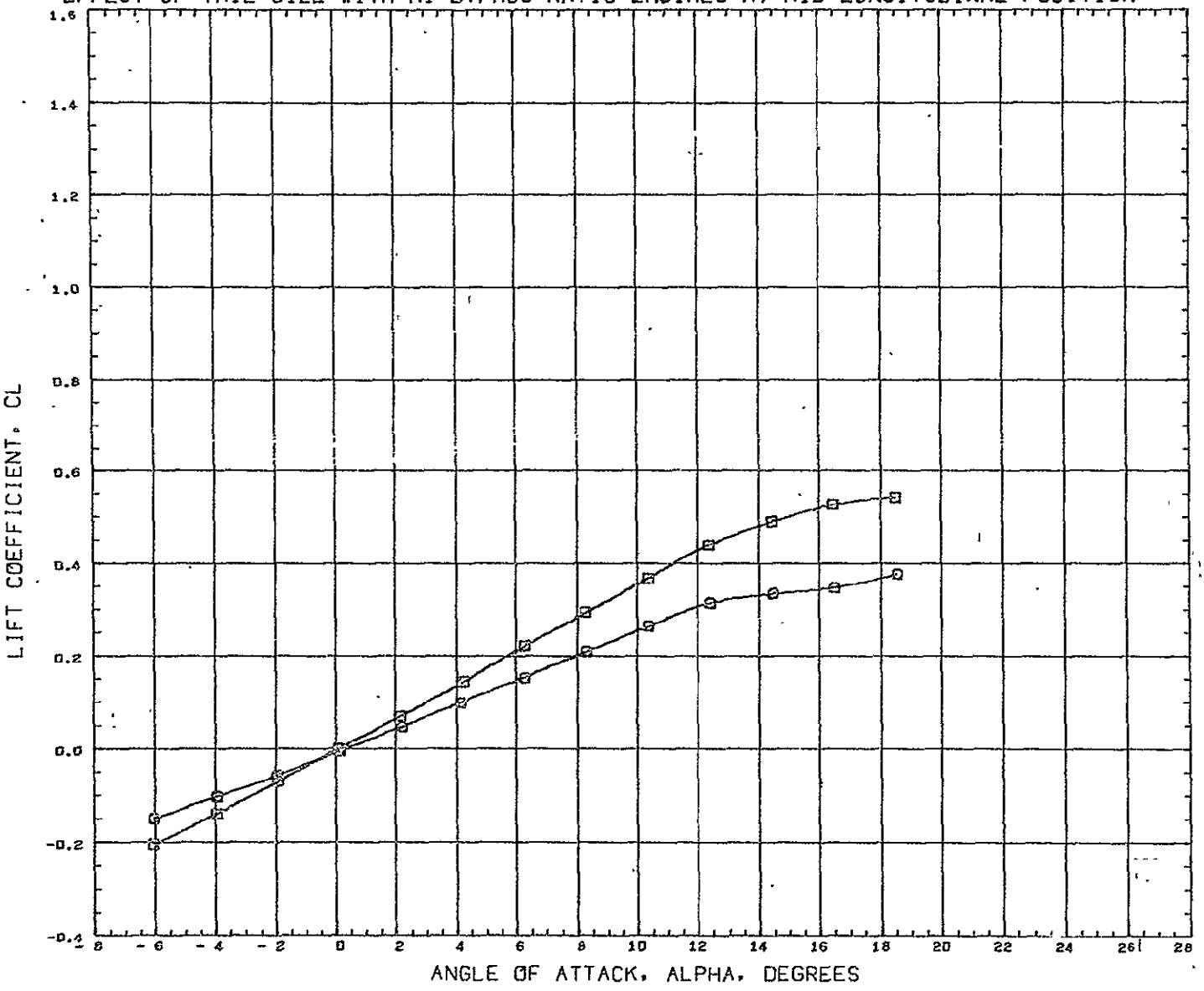
PARAMETRIC VALUES

BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

EFFECT OF TAIL SIZE WITH HI-BYPASS RATIO ENGINES AT MID-LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8053)	○	CVLSWT TEST 580-0 B9T4V4E13
(RC8100)	□	CVLSWT TEST 580-0 B9T5V5E13

MACH 0.259

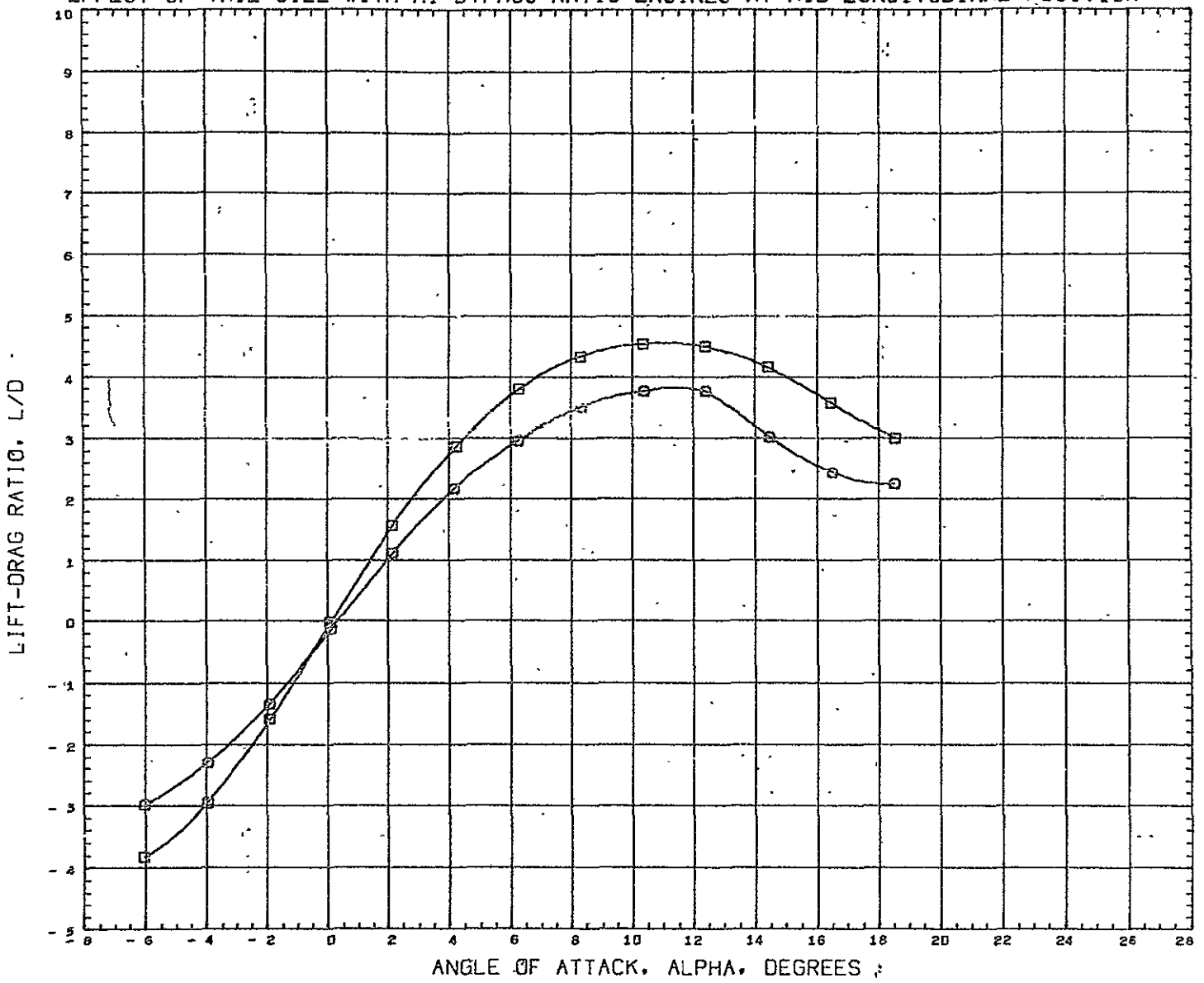
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	ENGINE	13.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF TAIL SIZE WITH HI-BYPASS RATIO ENGINES AT MID-LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8053)	○	CVLSWT TEST 580-0 B9T4V4E13
(RC8100)	□	CVLSWT TEST 580-0 B9T5V5E13

PARAMETRIC VALUES

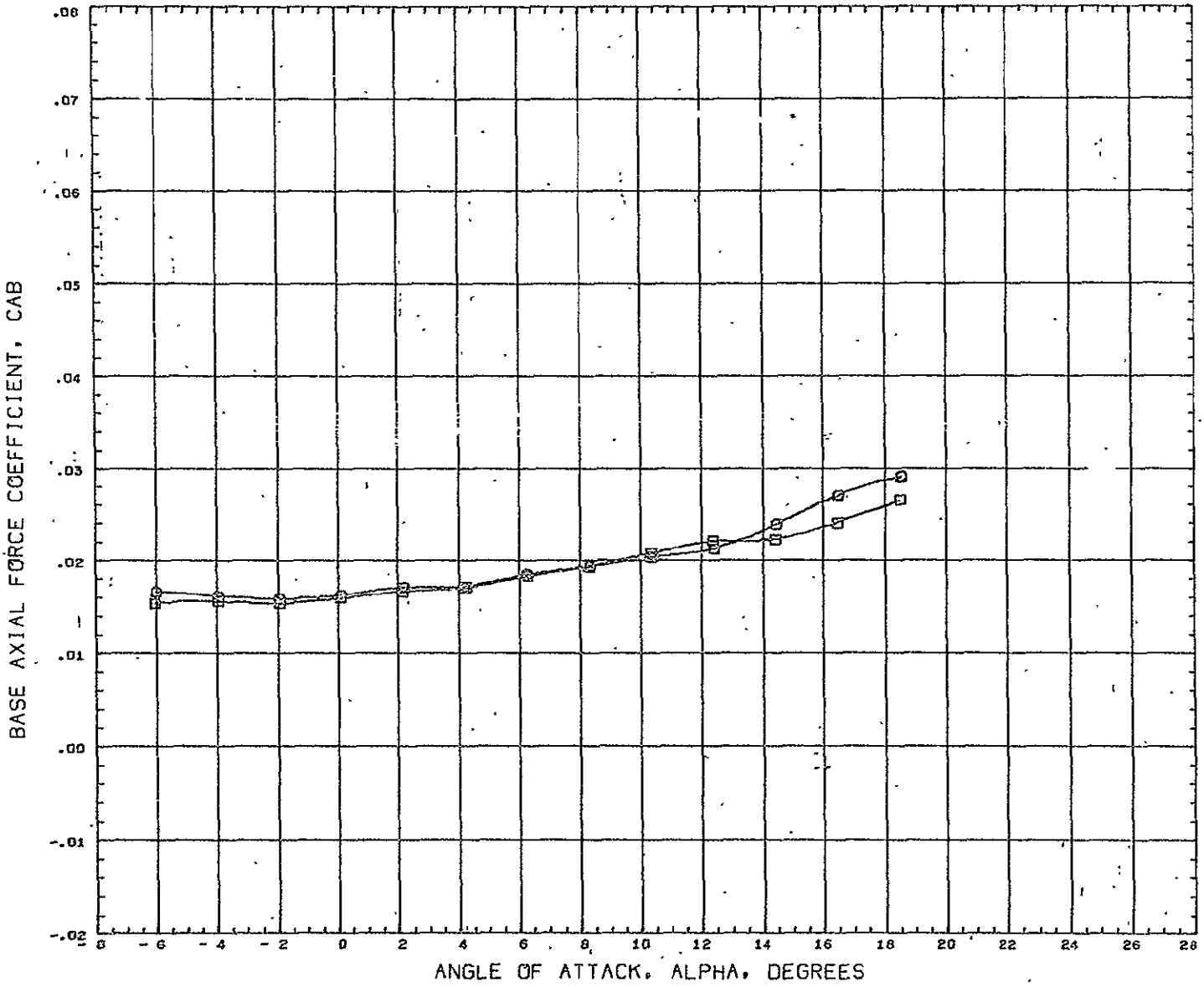
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	ENGINE	13.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3926	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF TAIL SIZE WITH HI-BYPASS RATIO ENGINES AT MID-LONGITUDINAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8053)	○	CVLSWT TEST 580-D B9T4V4E13
(RC8100)	□	CVLSWT TEST 580-D B9T5V5E13

MACH 0.259

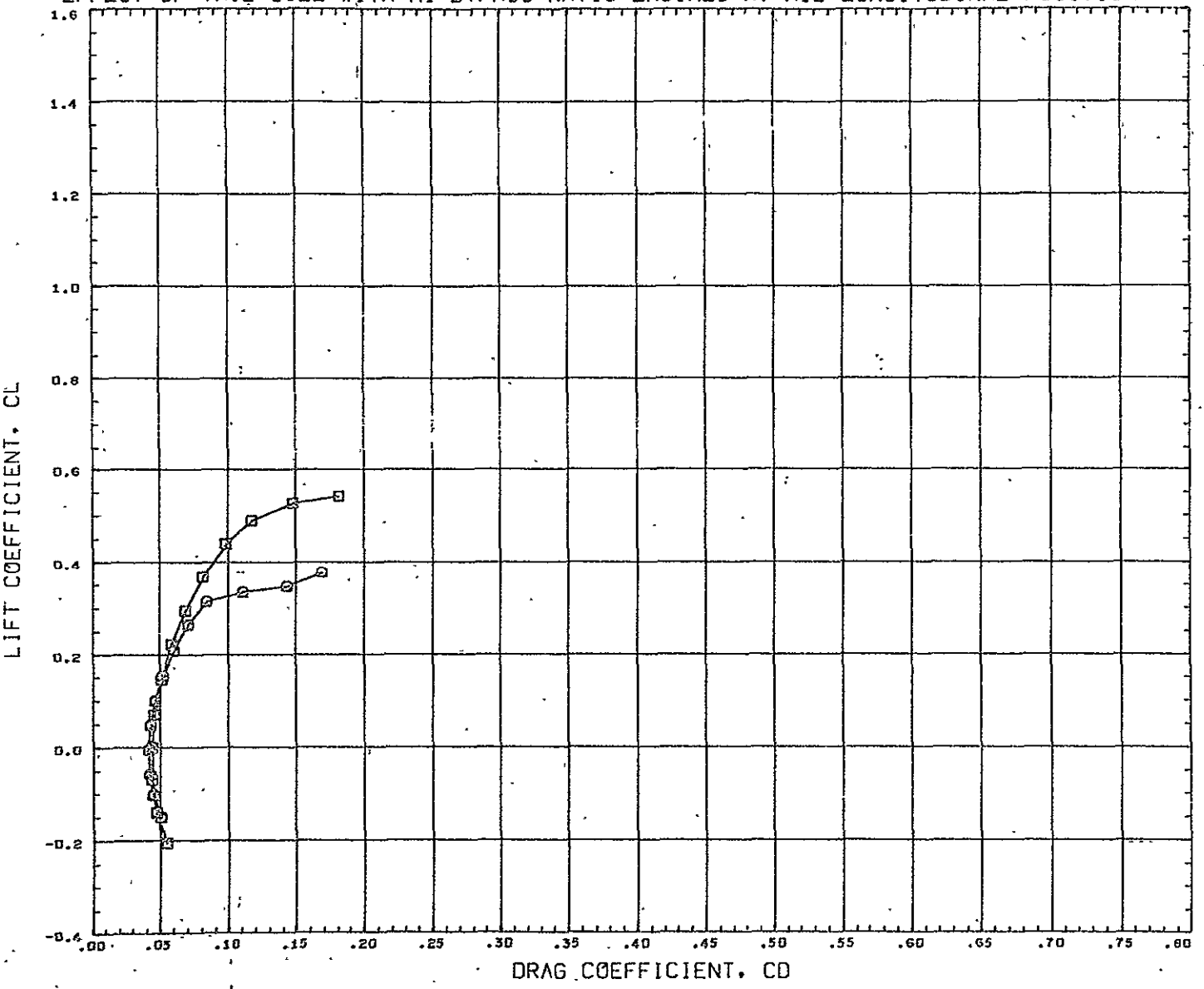
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	ENGINE	13.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF TAIL SIZE WITH HI-BYPASS RATIO ENGINES AT MID-LONGITUDINAL POSITION



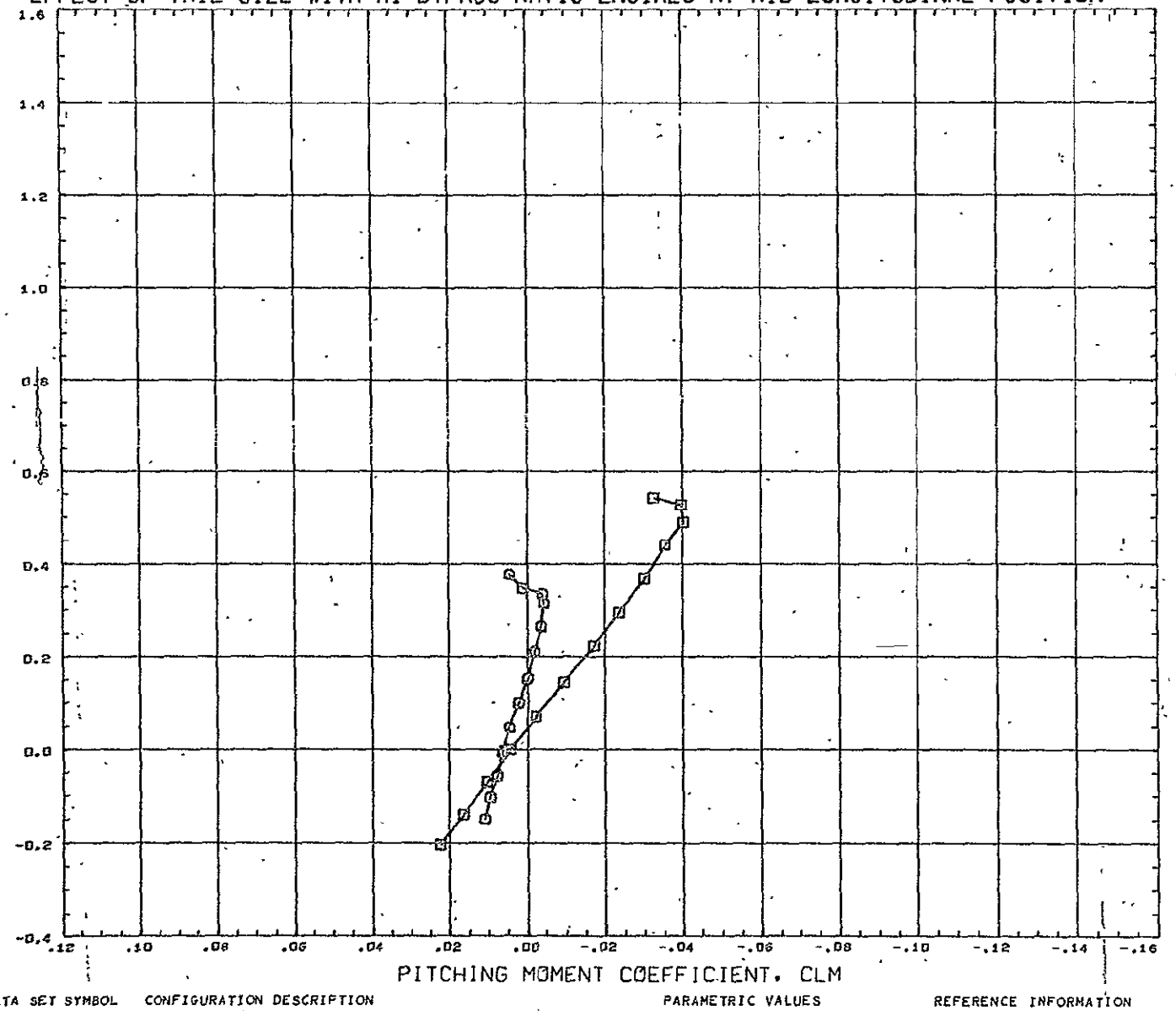
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8053)	○	CVLSWT TEST 580-0 B9T4V4E13
(RC8109)	□	CVLSWT TEST 580-0 B9T5V5E13

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	ENGINE	13.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF TAIL SIZE WITH HI-BYPASS RATIO ENGINES AT MID-LONGITUDINAL POSITION



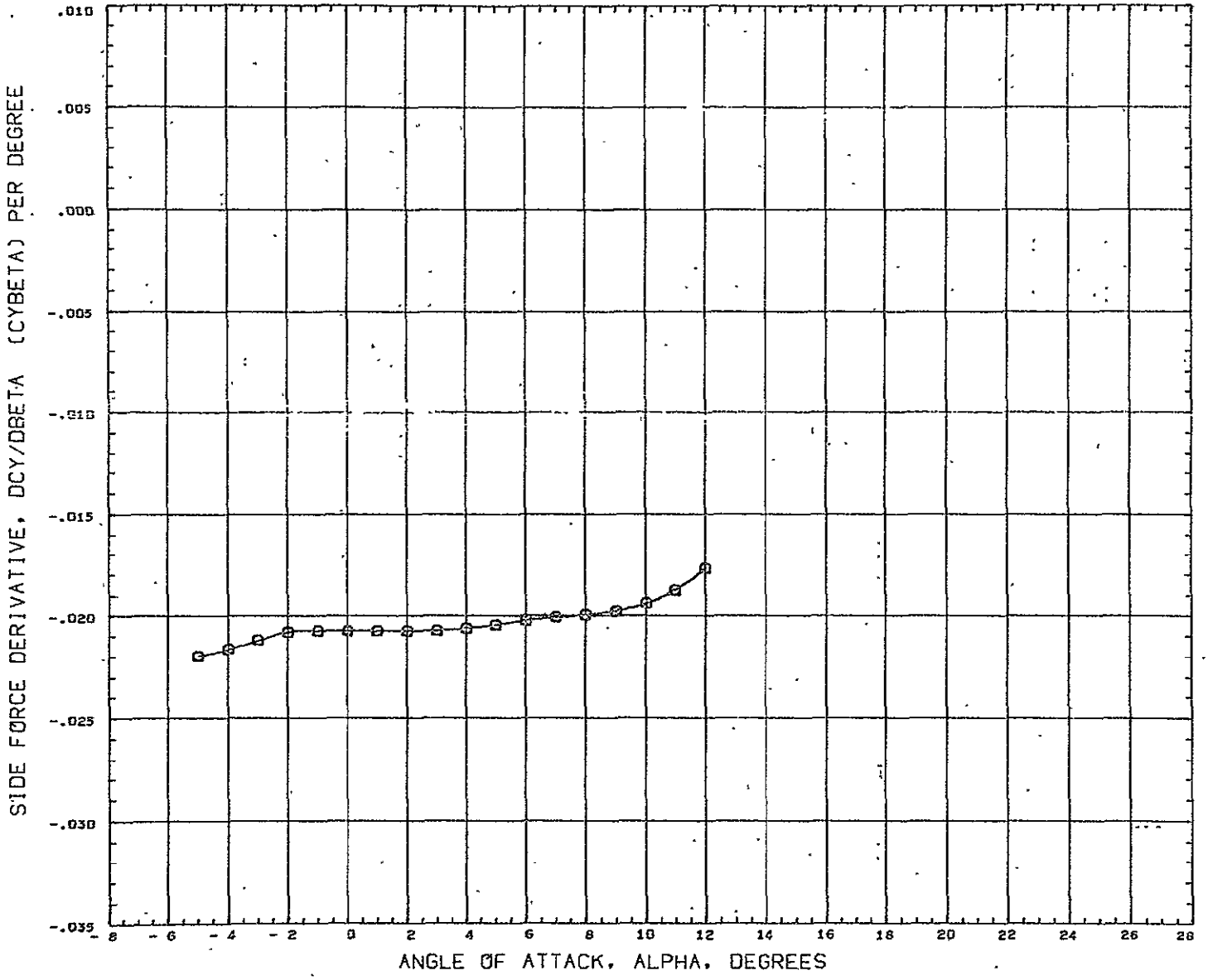
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8053)	○	CVLSWT TEST 580-0 B9T4V4E13
(RC8100)	□	CVLSWT TEST 580-0 B9T5V5E13

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	ENGINE	13.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LATER-DIRECTIONAL DATA WITH LARGE HORIZONTAL-VERTICAL TAIL AND ENG AT MID-POS



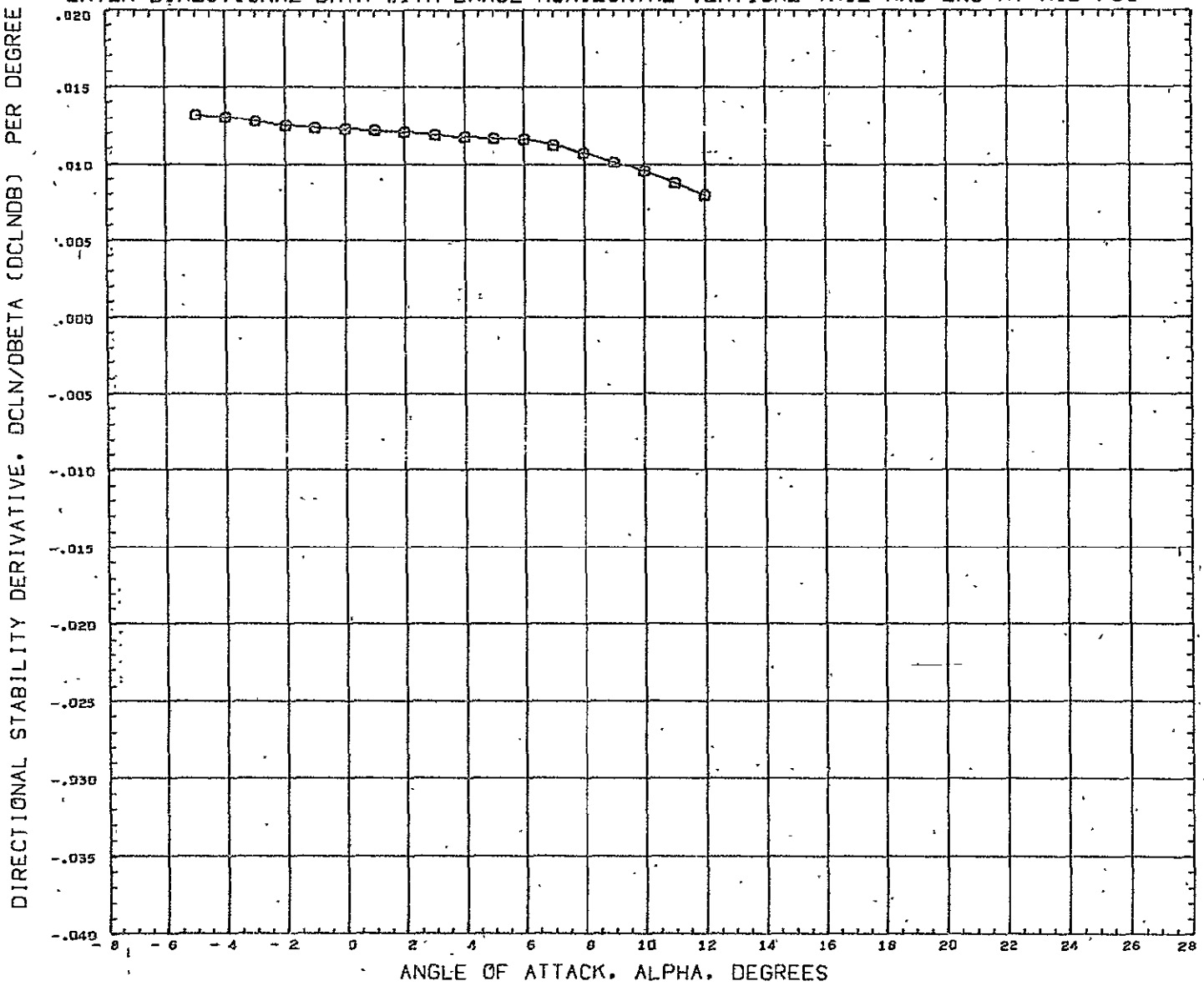
SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	- 4.000	ELEVTR	0.000
		RUDDER	0.000	ENGINE	13.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

DATA HIST. CODE #P

LATER-DIRECTIONAL DATA WITH LARGE HORIZONTAL-VERTICAL TAIL AND ENG AT MID-POS



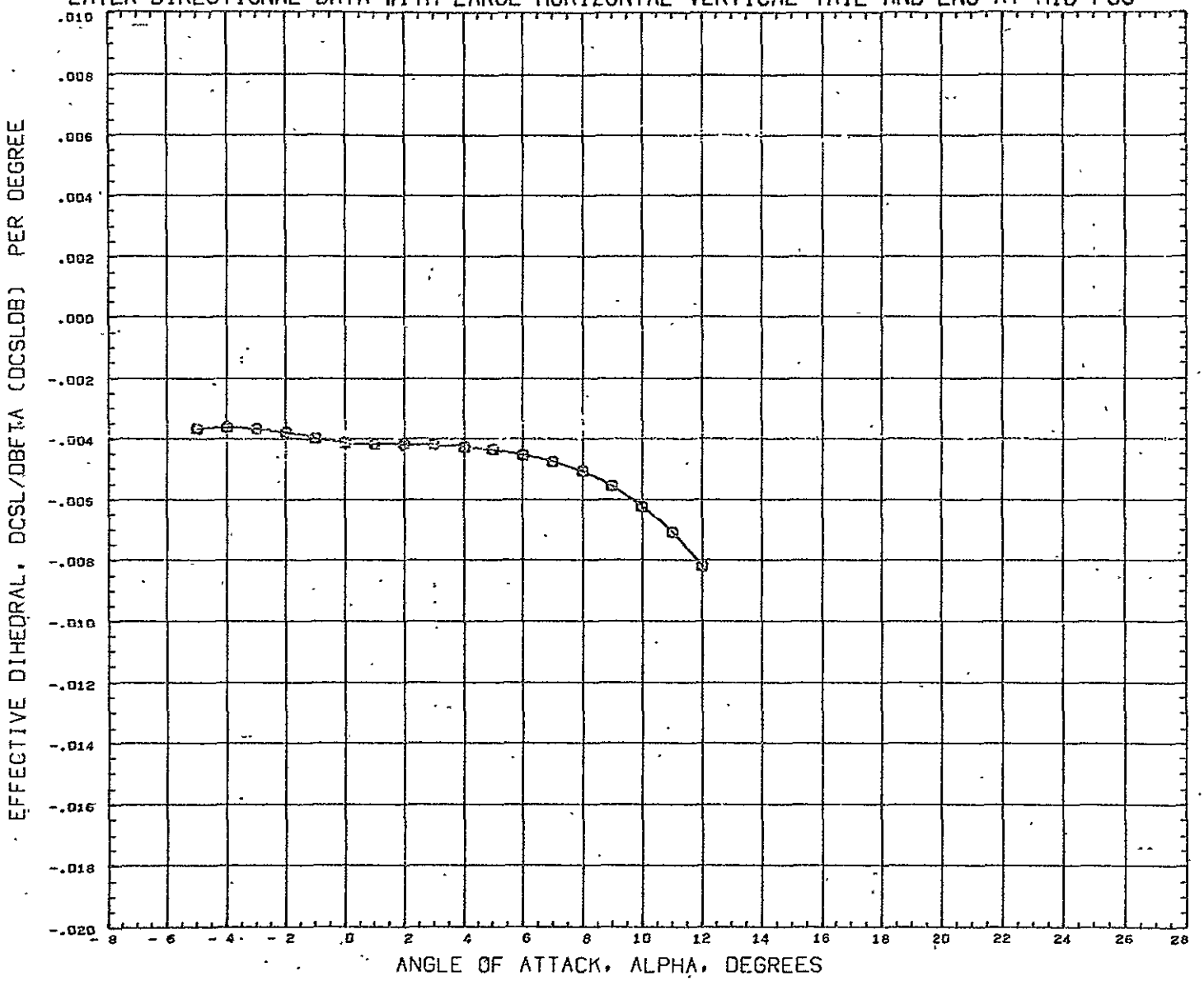
SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	- 4.000	ELEVTR	0.000
		RUDDER	0.000	ENGINE	13.000

DATA HIST. CODE - *P

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LATER-DIRECTIONAL DATA WITH LARGE HORIZONTAL-VERTICAL TAIL AND ENG AT MID-POS



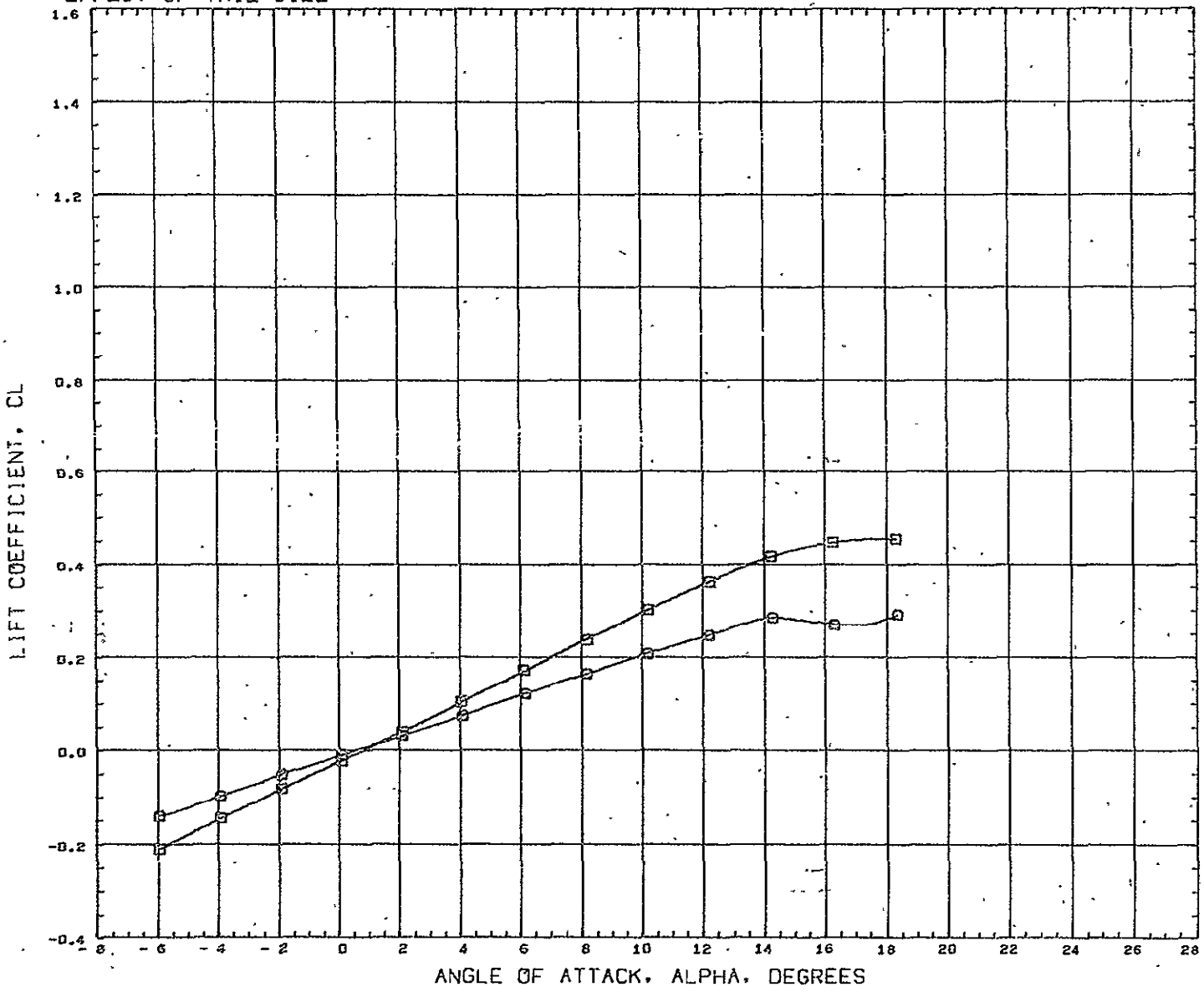
SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	- 4.000	ELEVTR	0.000
		RUDDER	0.000	ENGINE	13.000

DATA HIST. CODE *F

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF TAIL SIZE



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8054)	○	CVLSWT TEST 580-0 B9T4V4
(RC8080)	□	CVLSWT TEST 580-0 B9T5V5

MACH 0.259

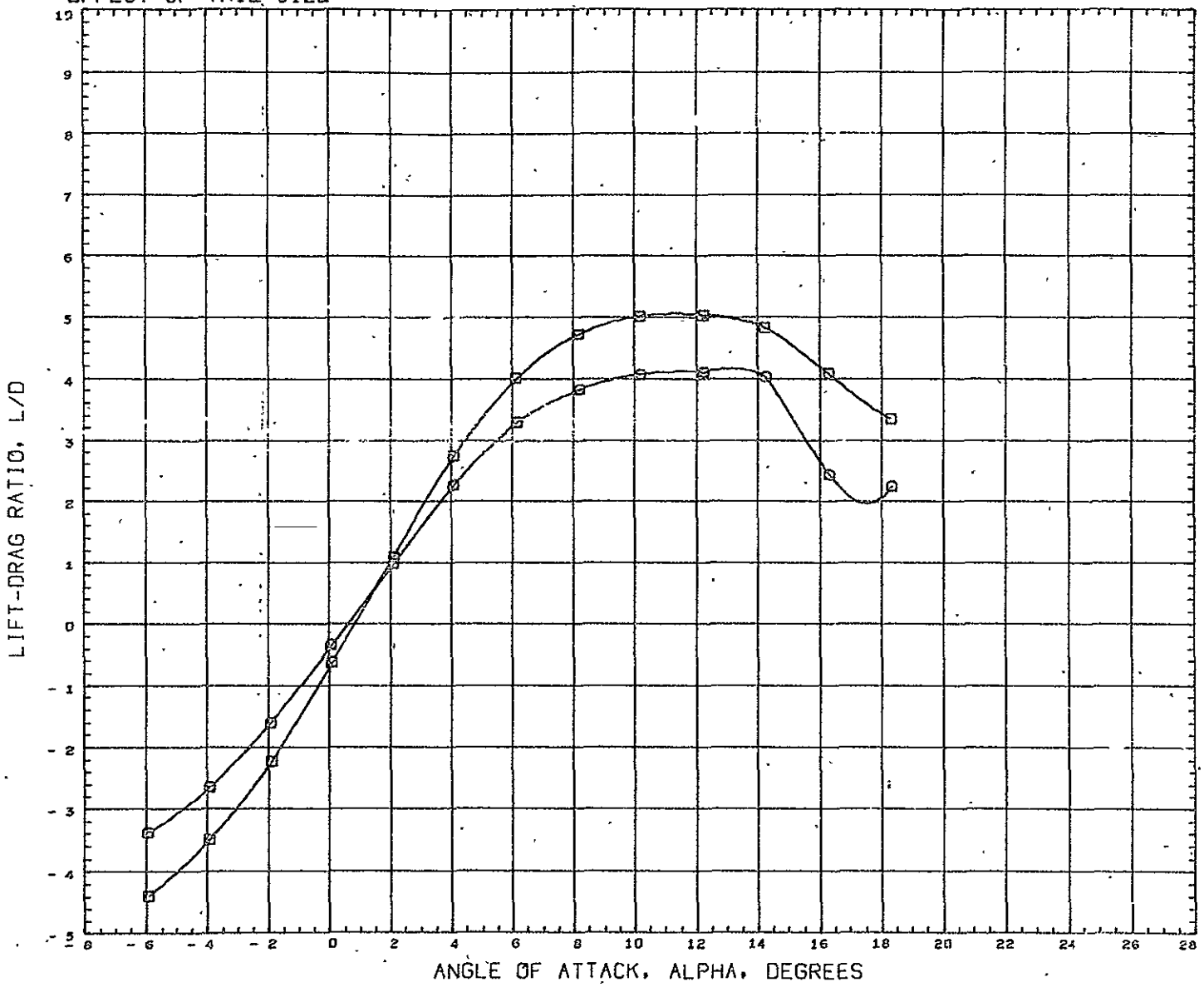
PARAMETRIC VALUES

BETA 0.000. ELEVTR 0.000
RUDDER 0.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF TAIL SIZE



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC0054)	○	CVLSWT TEST 580-0 B9T4V4
(RC0080)	□	CVLSWT TEST 580-0 B9T5V5

MACH 0.259

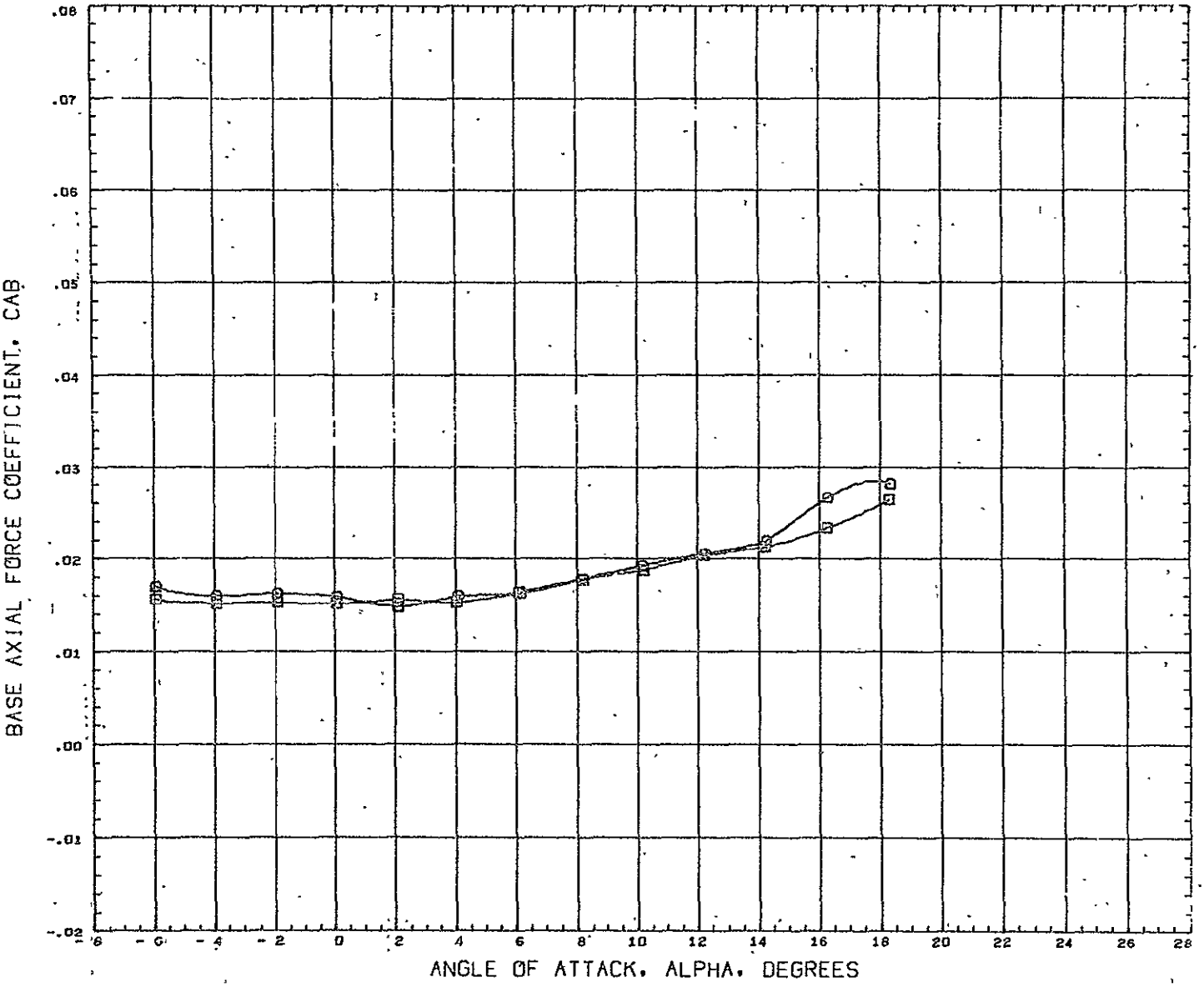
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

EFFECT OF TAIL SIZE



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RC8054) O CVLSWT TEST 580-D B9T4V4

(RC8080) □ CVLSWT TEST 580-D B9T5V5

PARAMETRIC VALUES

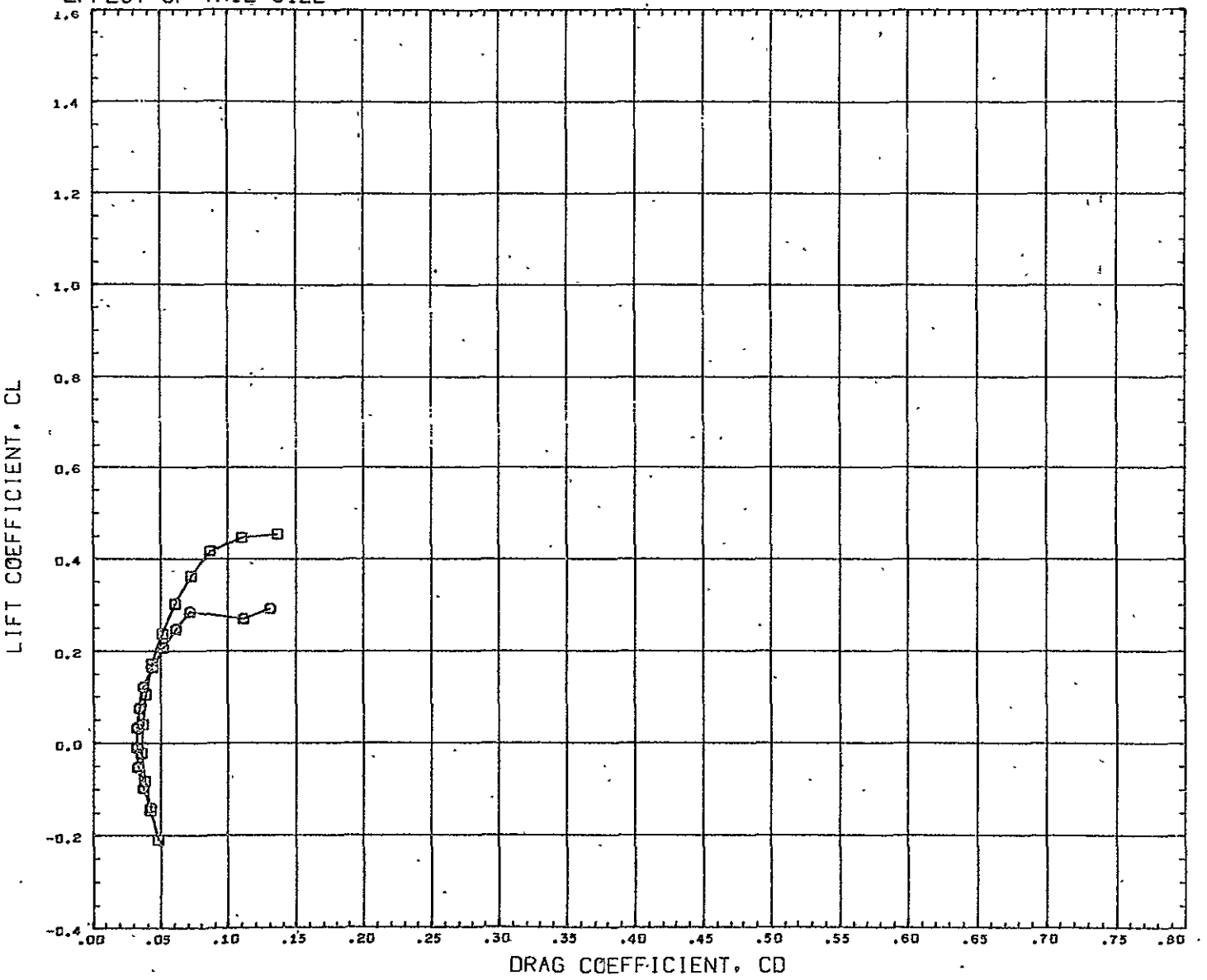
BETA	0.000	ELEVTR	0.000
RUDDER	0.000		

REFERENCE INFORMATION

REFS	316.2394	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF TAIL SIZE



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8054)	○	CVLSWT TEST 580-0 B9T4V4
(RC8080)	□	CVLSWT TEST 580-0 B9T5V5

MACH 0.259

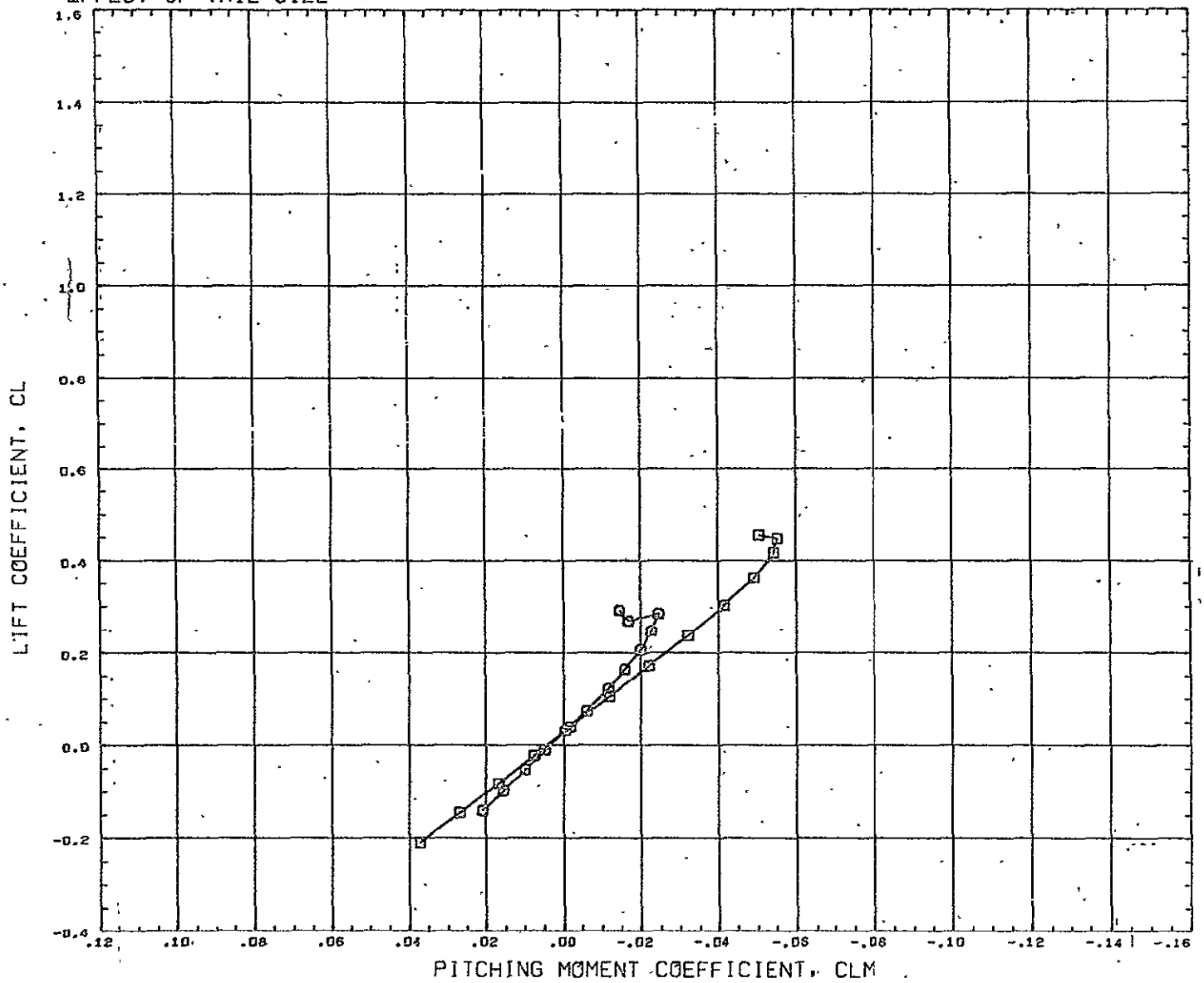
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

EFFECT OF TAIL SIZE



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8054)	○	CVLSWT TEST 580-0 B9T4V4
(RC8080)	□	CVLSWT TEST 580-0 B9T5V5

MACH 0.259

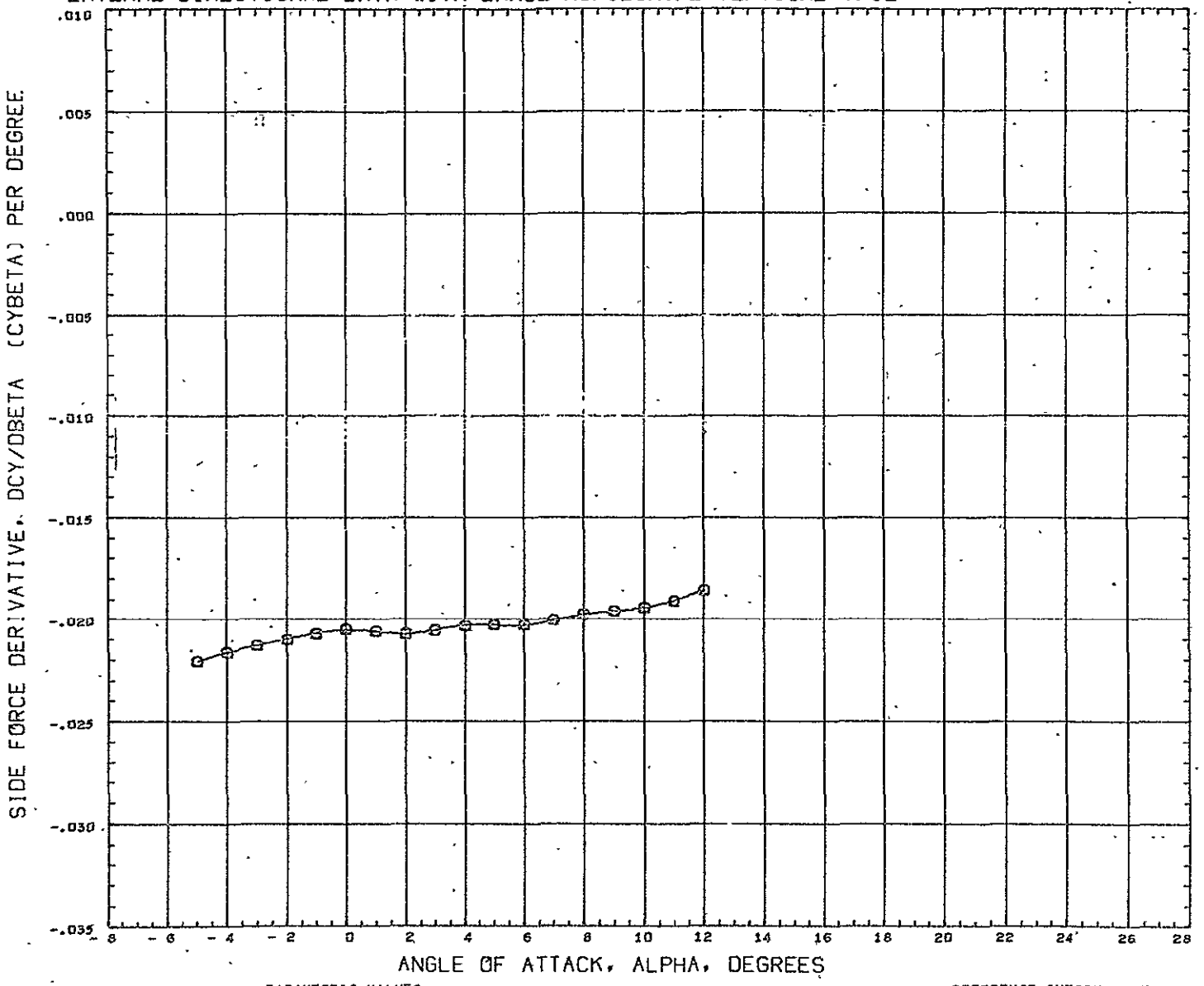
PARAMETRIC VALUES

BETA 0.000 ELEVTR 0.000
RUDDER 0.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LATERAL DIRECTIONAL DATA WITH LARGE HORIZONTAL-VERTICAL TAIL



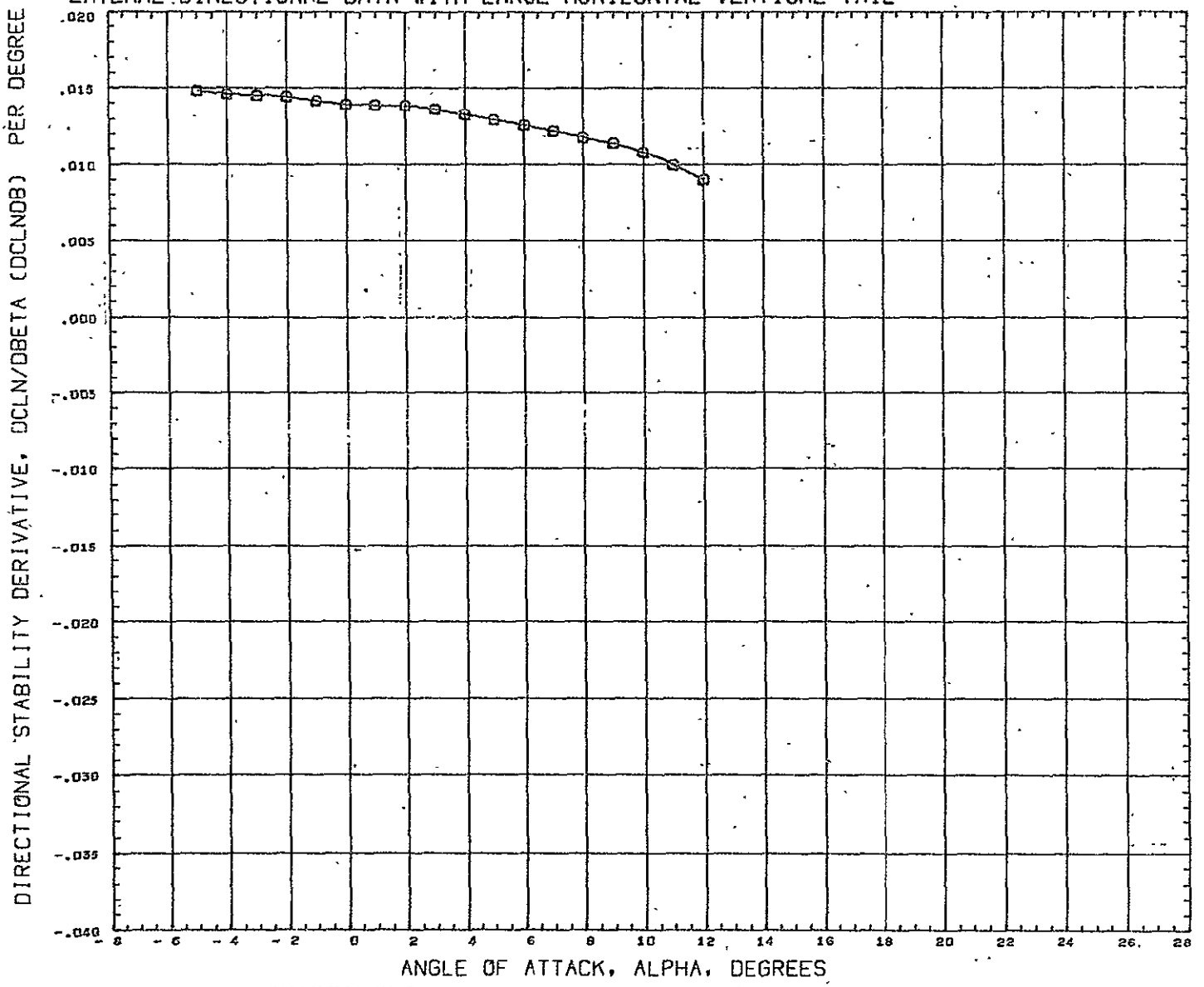
SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	- 4.000	ELEVTR	0.000
		RUDDER	0.000		

DATA HIST. CODE #F

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LATERAL DIRECTIONAL DATA WITH LARGE HORIZONTAL-VERTICAL TAIL



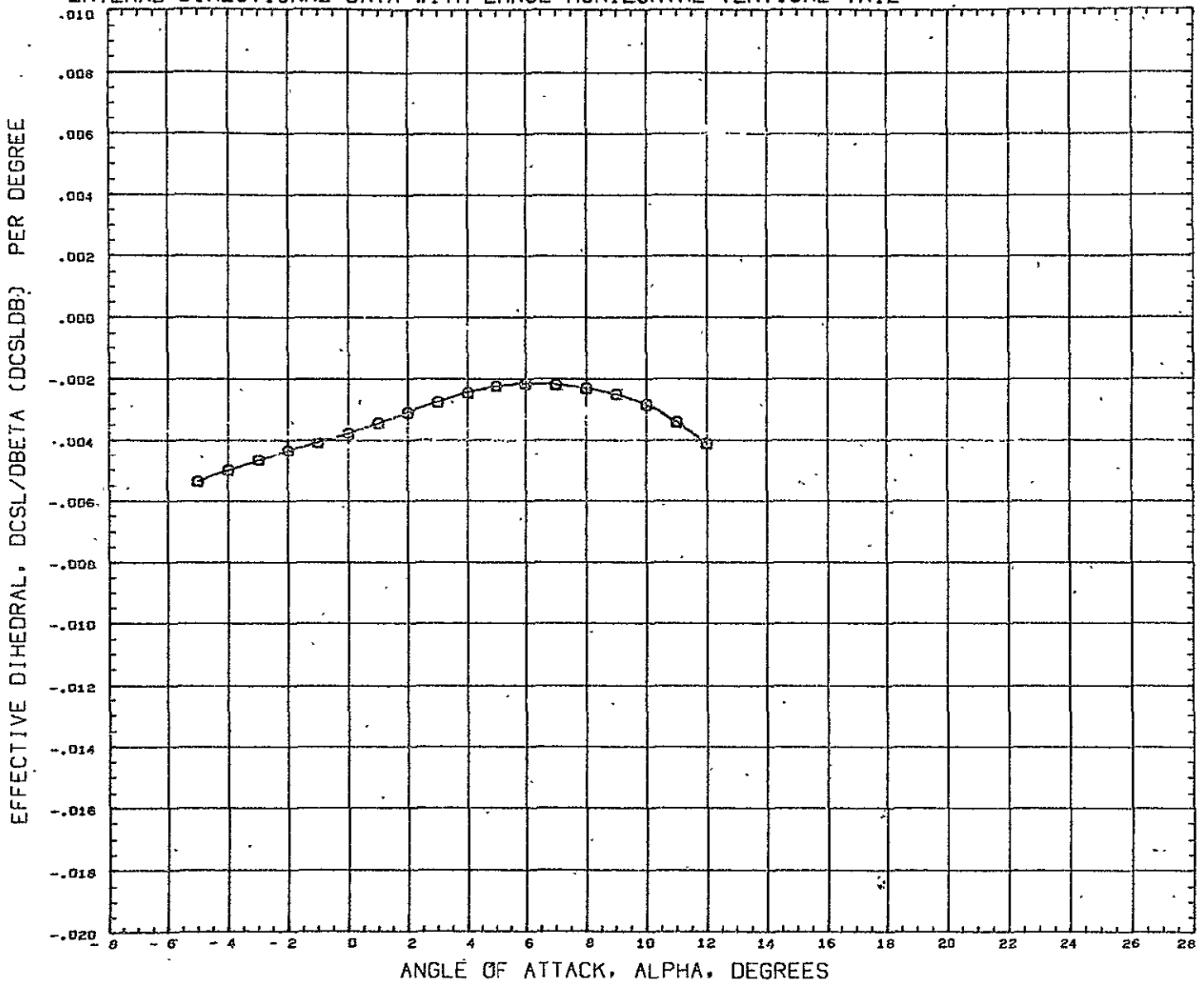
SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	- 4.000	ELEVTR	0.000
		RUDDER	0.000		

DATA HIST. CODE *F

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LATERAL DIRECTIONAL DATA WITH LARGE HORIZONTAL-VERTICAL TAIL



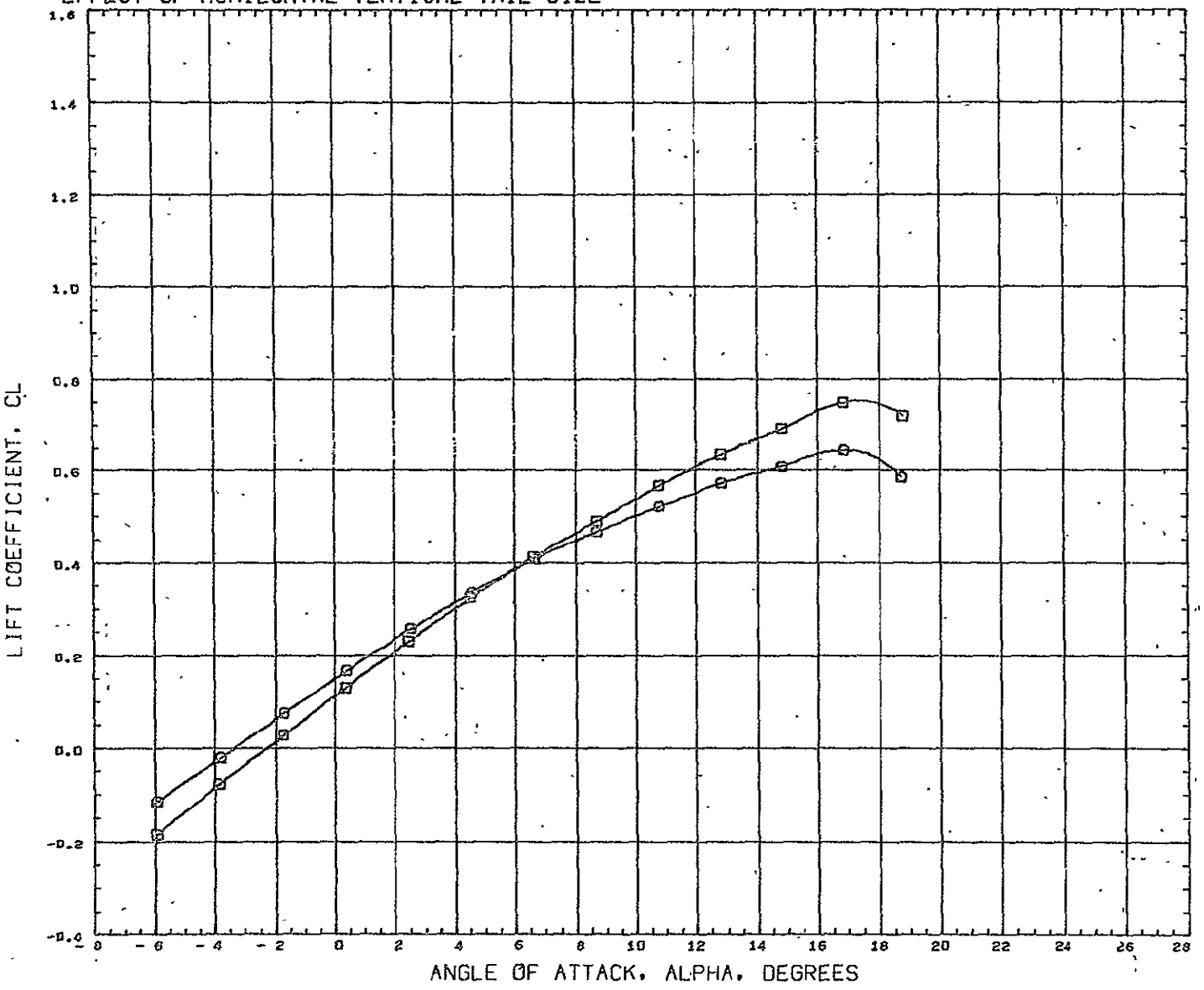
SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	- 4.000	ELEVTR	0.000
		RUDDER	0.000		

DATA HIST. CODE *P

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HORIZONTAL-VERTICAL TAIL SIZE



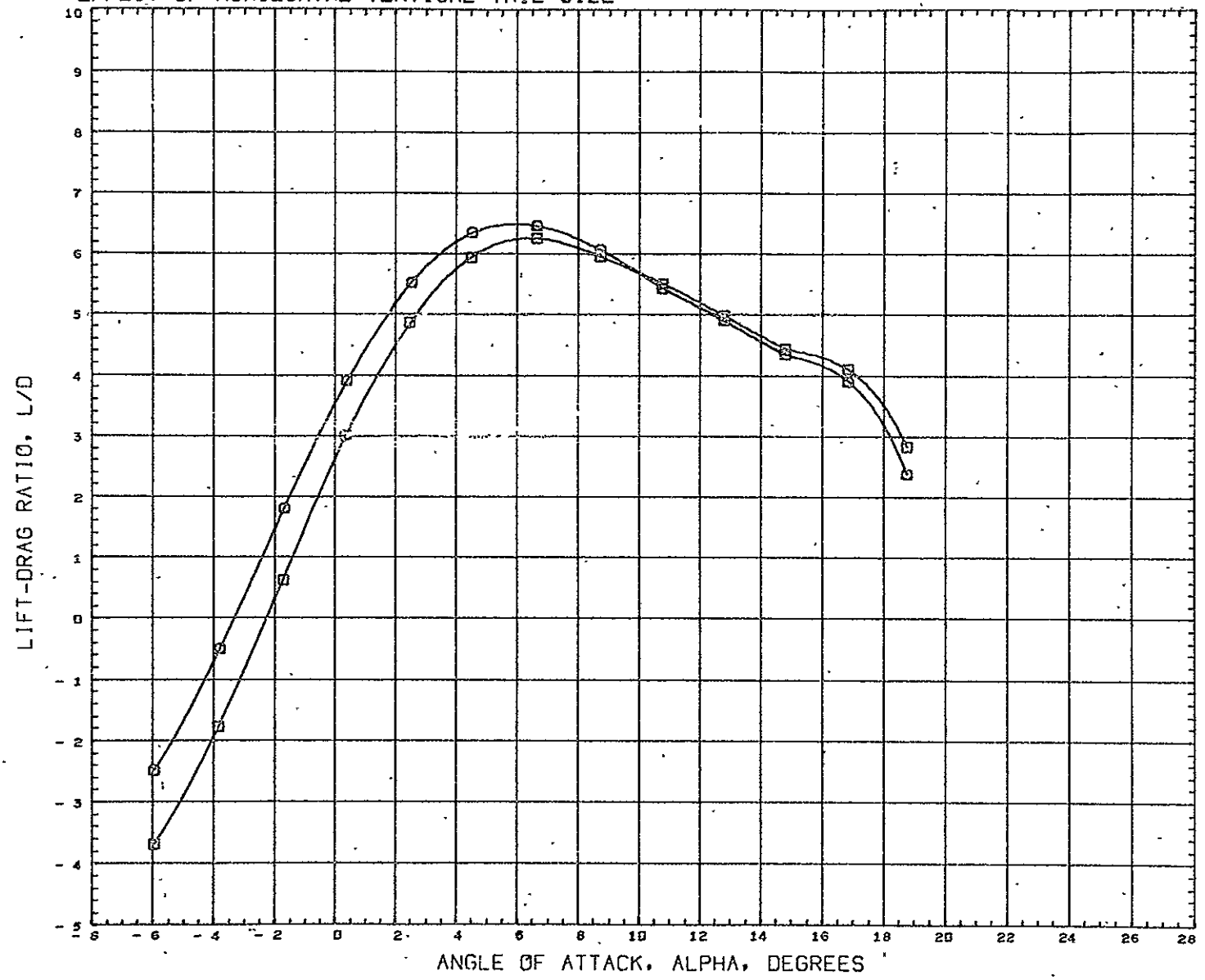
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8092)	□	CVLSWT TEST 580-0 B9W3AT5V5

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SFOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HORIZONTAL-VERTICAL TAIL SIZE



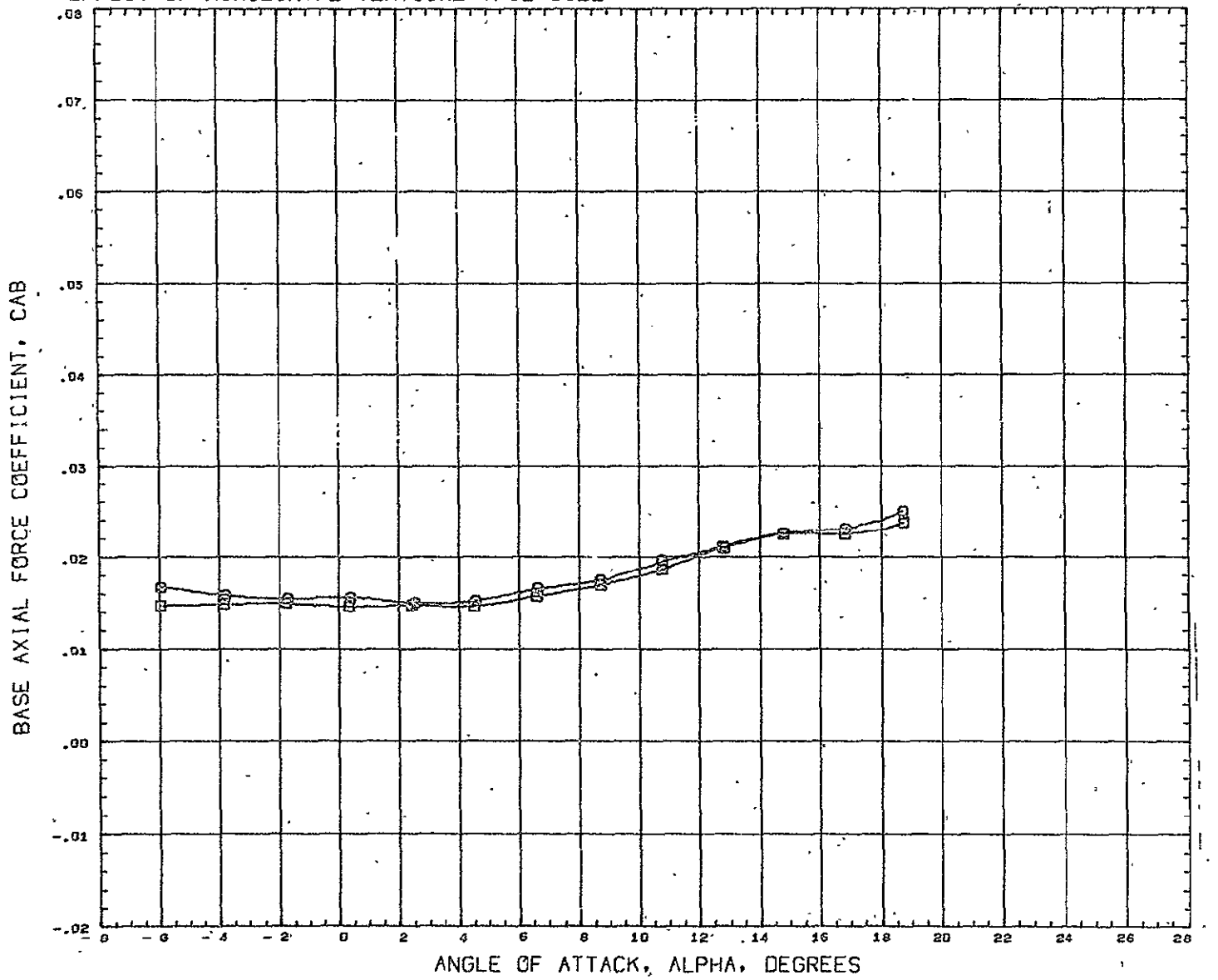
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8092)	□	CVLSWT TEST 580-0 B9W3AT5V5

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HORIZONTAL-VERTICAL TAIL SIZE



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8092)	□	CVLSWT TEST 580-0 B9W3AT5V5

MACH 0.259

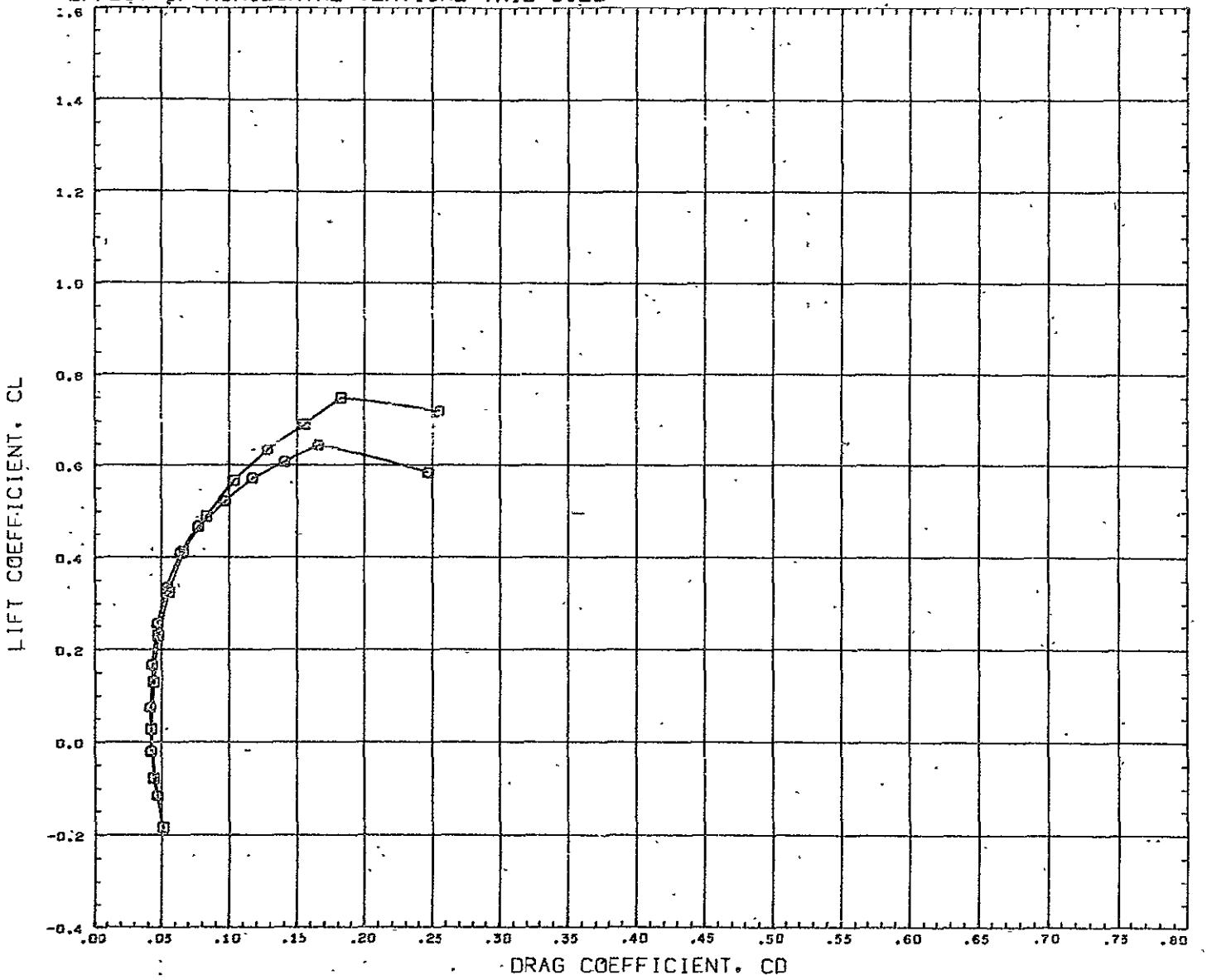
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HORIZONTAL-VERTICAL TAIL SIZE



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-D B9W3AT4V4
(RC8092)	□	CVLSWT TEST 580-D B9W3AT5V5

MACH 0.259

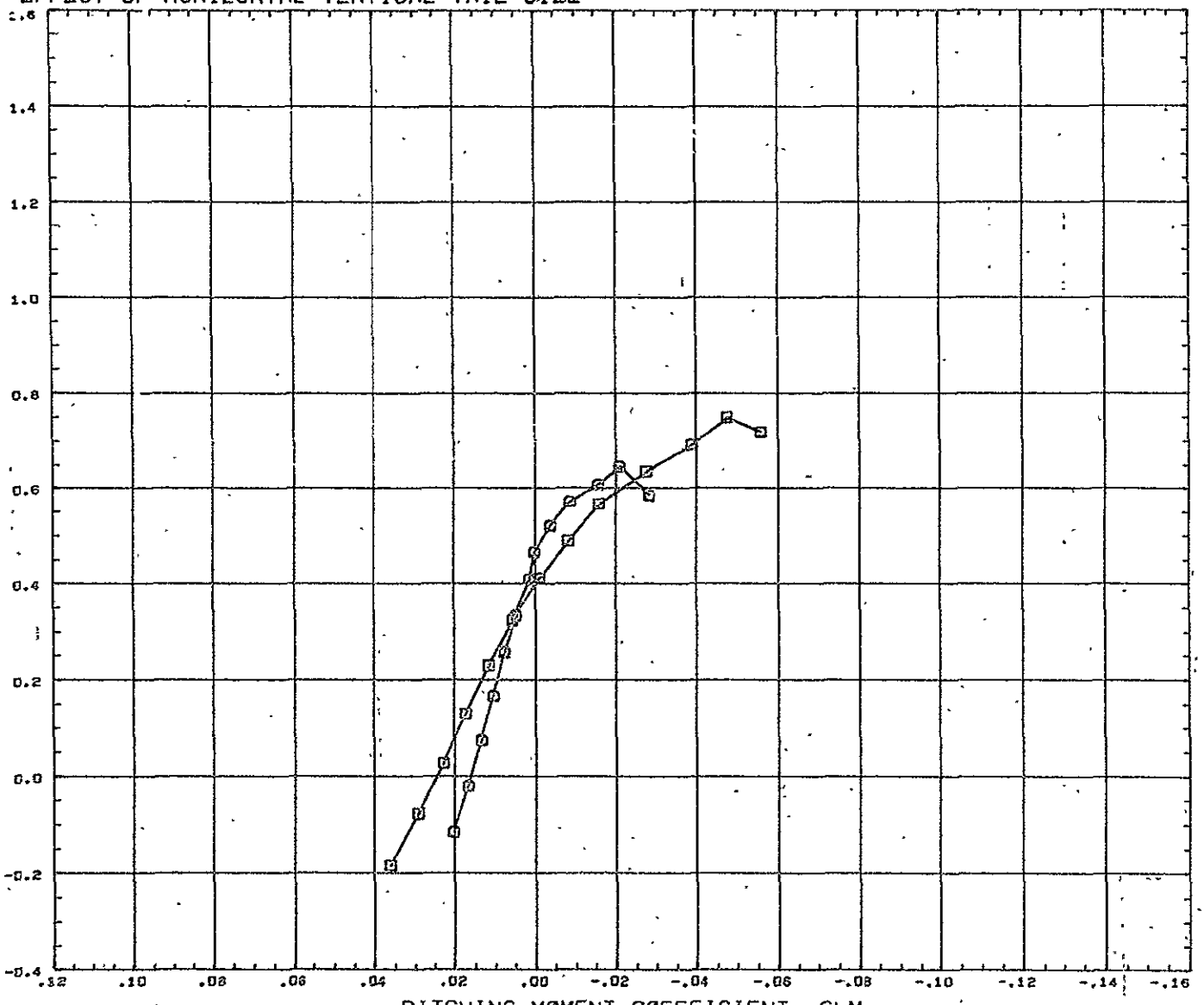
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3590	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HORIZONTAL-VERTICAL TAIL SIZE



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8092)	□	CVLSWT TEST 580-0 B9W3AT5V5

MACH 0.259

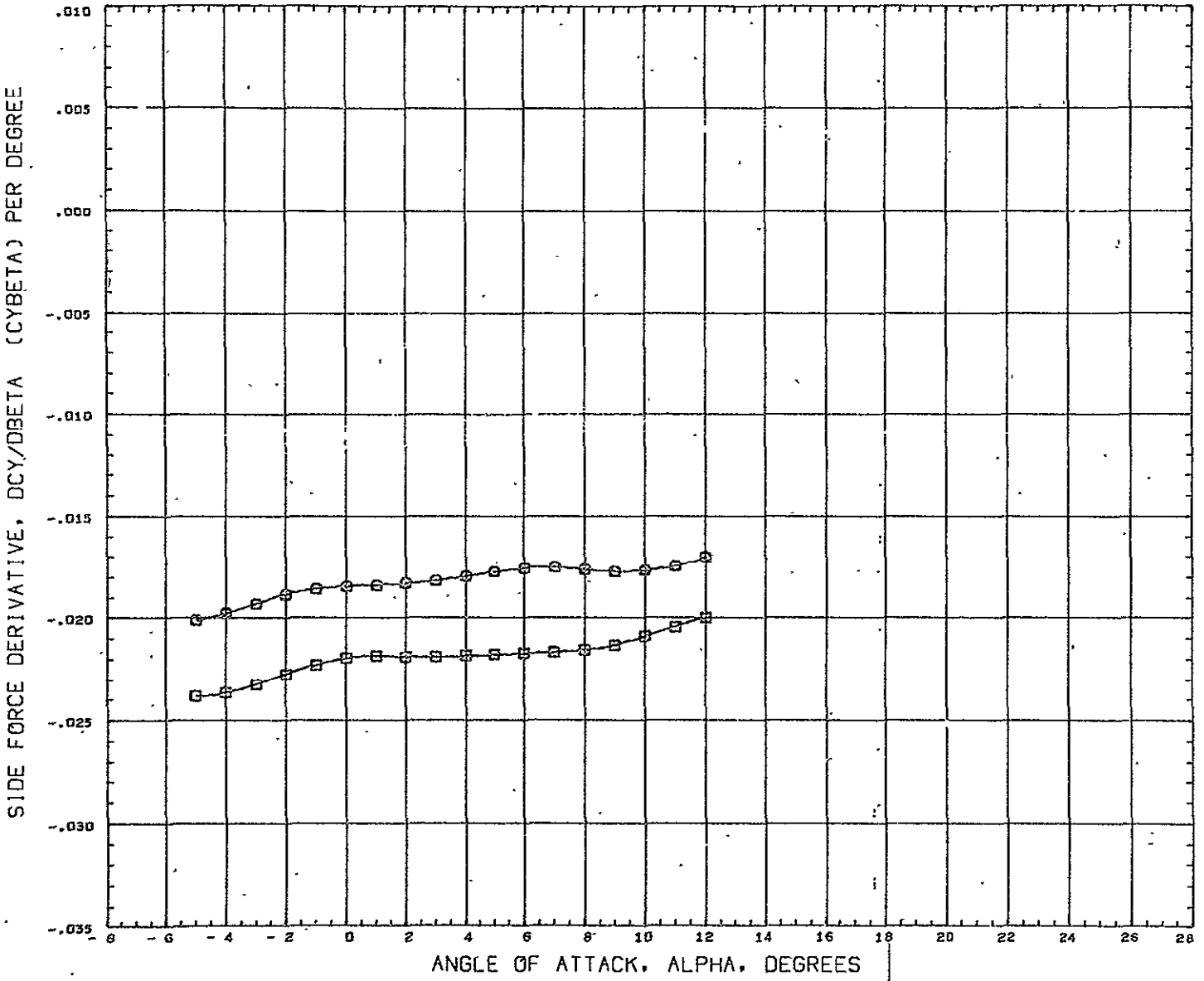
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HORIZONTAL-VERTICAL TAIL SIZE



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FC8064)	○	CVLSWT TEST 580-D B9W3AT4V4
(FC8093)	□	CVLSWT TEST 580-D B9W3AT5V5

MACH 0.259

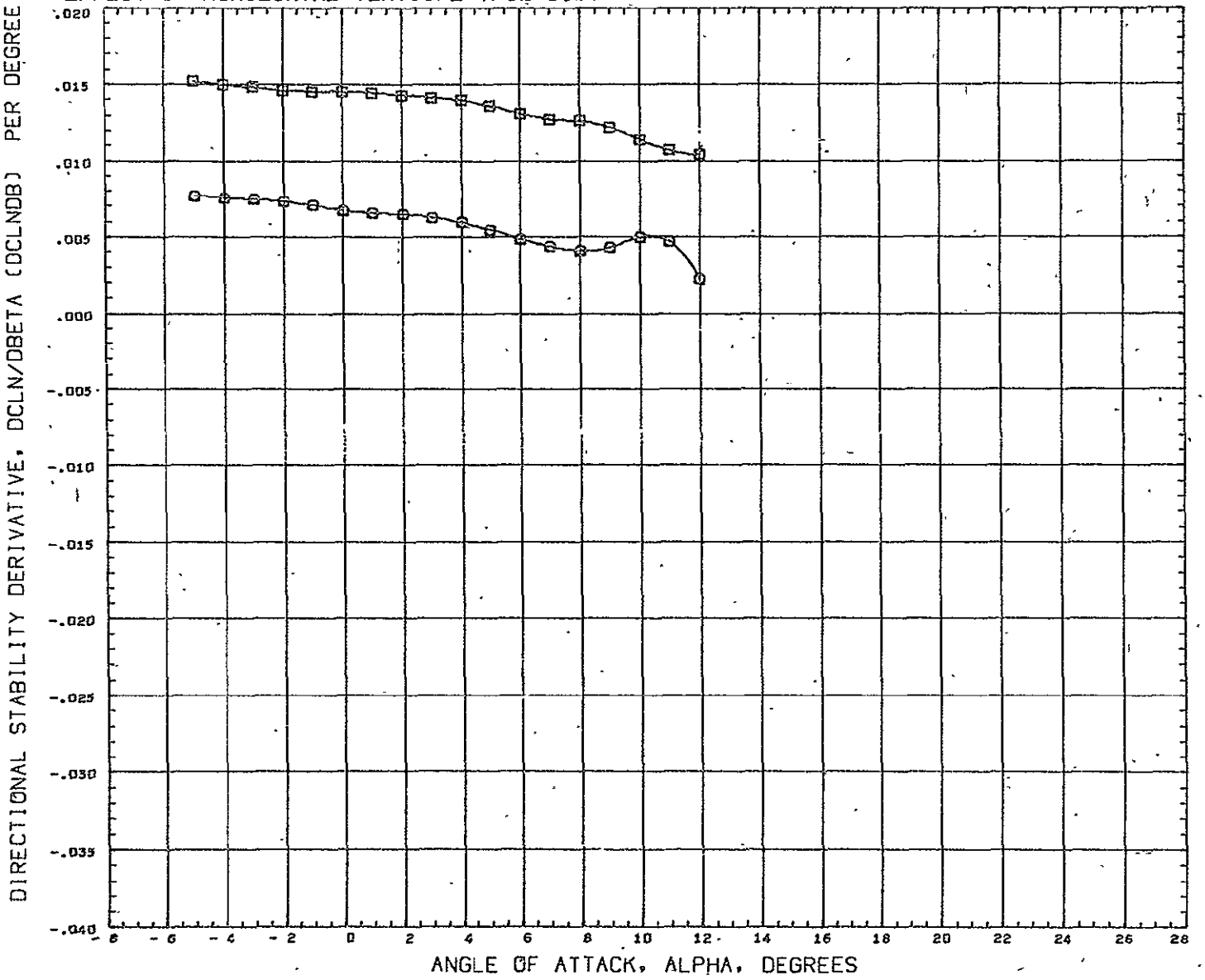
PARAMETRIC VALUES

BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF HORIZONTAL-VERTICAL TAIL SIZE



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(FC8064)	○	CVLSWT TEST 580-0 B9W3AT4V4
(FC8093)	□	CVLSWT TEST 580-0 B9W3AT5V5

PARAMETRIC VALUES

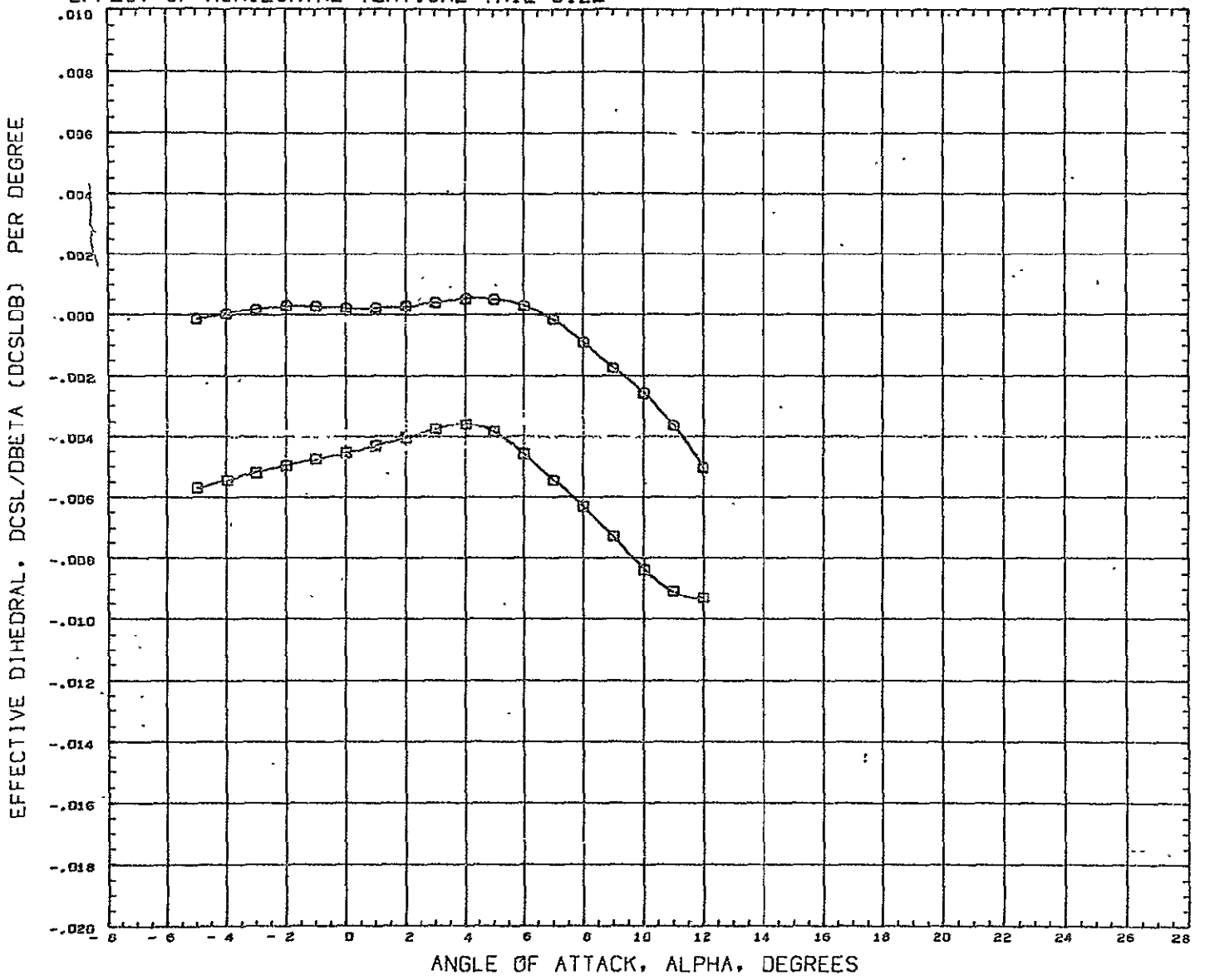
BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SFOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF HORIZONTAL-VERTICAL TAIL SIZE



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PC8064)	○	CVLSWT TEST 580-0 B9W3AT4V4
(PC8093)	□	CVLSWT TEST 580-0 B9W3AT5V5

MACH 0.259

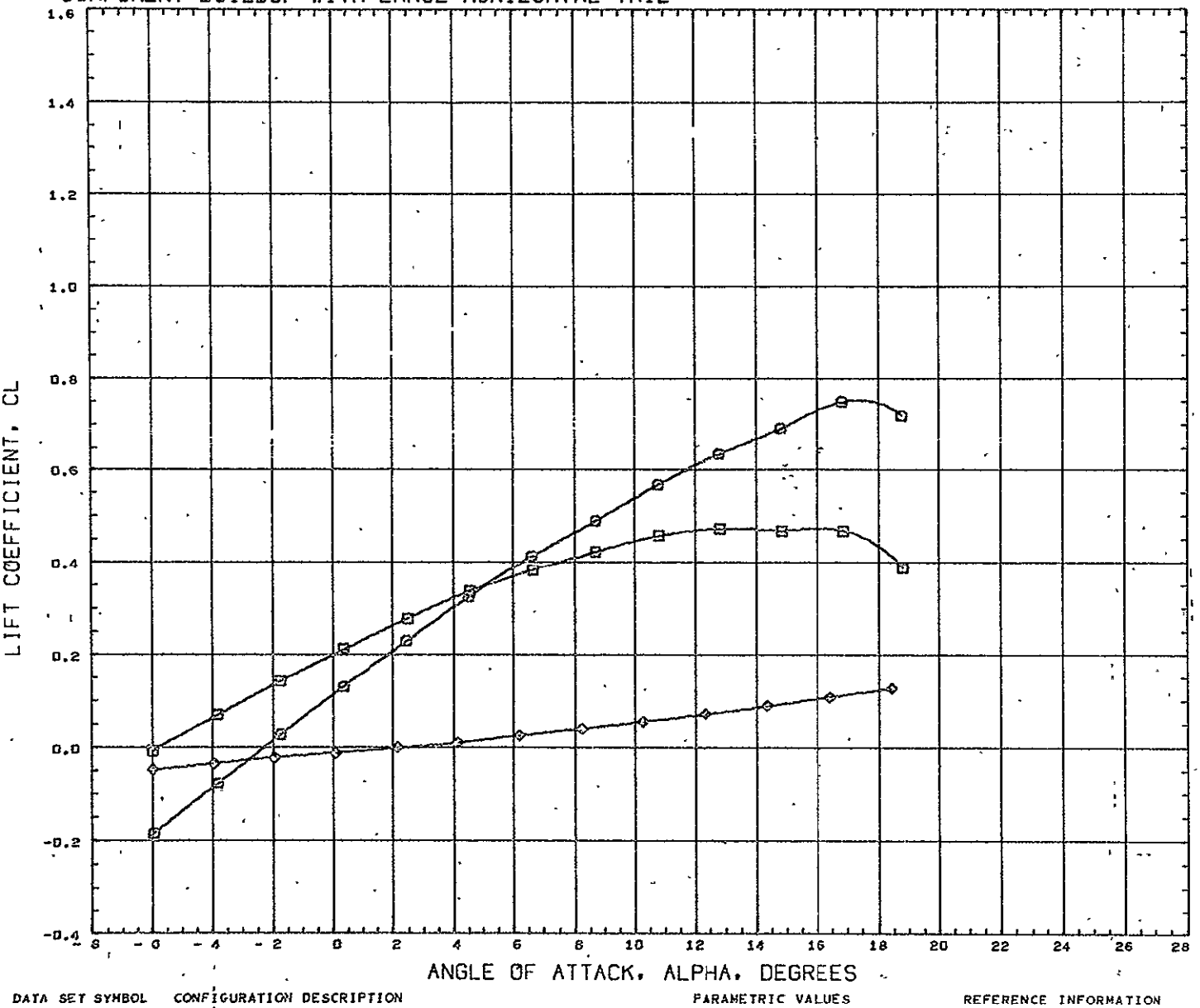
PARAMETRIC VALUES

BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LARGE HORIZONTAL TAIL



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC0092)	○	CVLSWT TEST 580-0 B9W3AT5V5
(RC8001)	□	CVLSWT TEST 580-0 B9W3A
(RC8050)	◇	CVLSWT TEST 580-0 B9

MACH 0.259

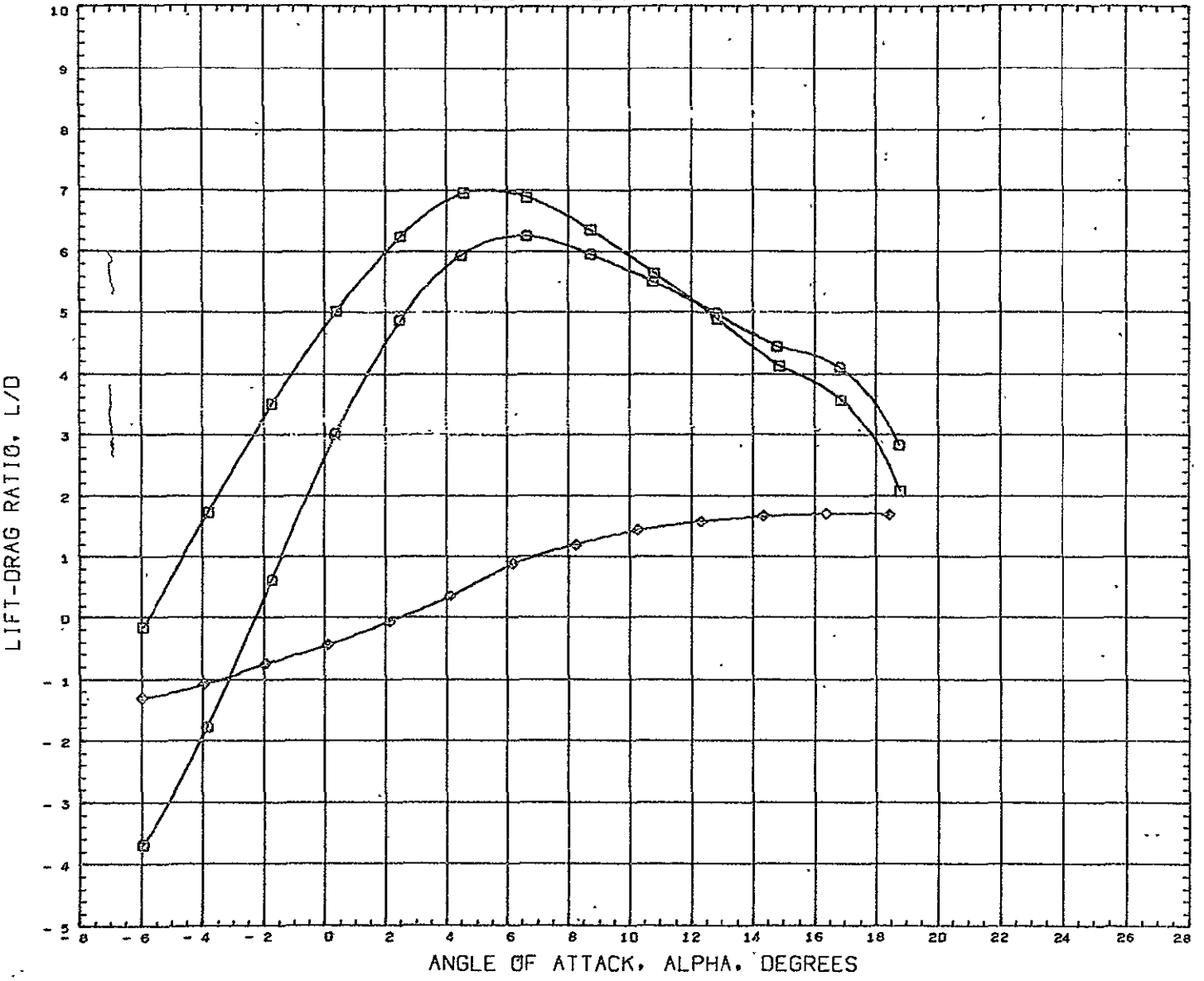
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SFOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LARGE HORIZONTAL TAIL



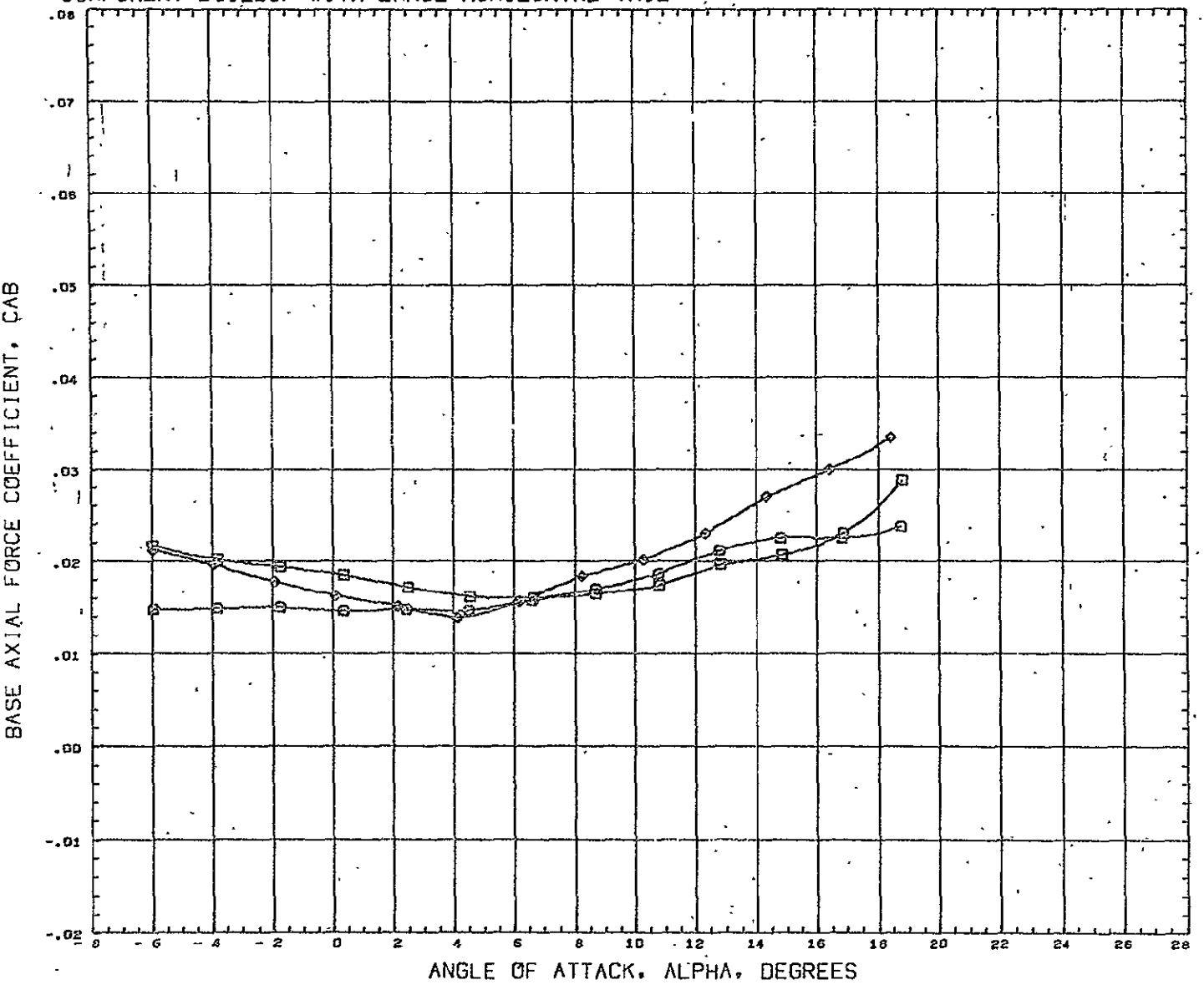
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8092)	○	CVLSWT TEST 580-0 B9W3AT5V5
(RC8001)	□	CVLSWT TEST 580-0 B9W3A
(RC8050)	◇	CVLSWT TEST 580-0 B9

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LARGE HORIZONTAL TAIL



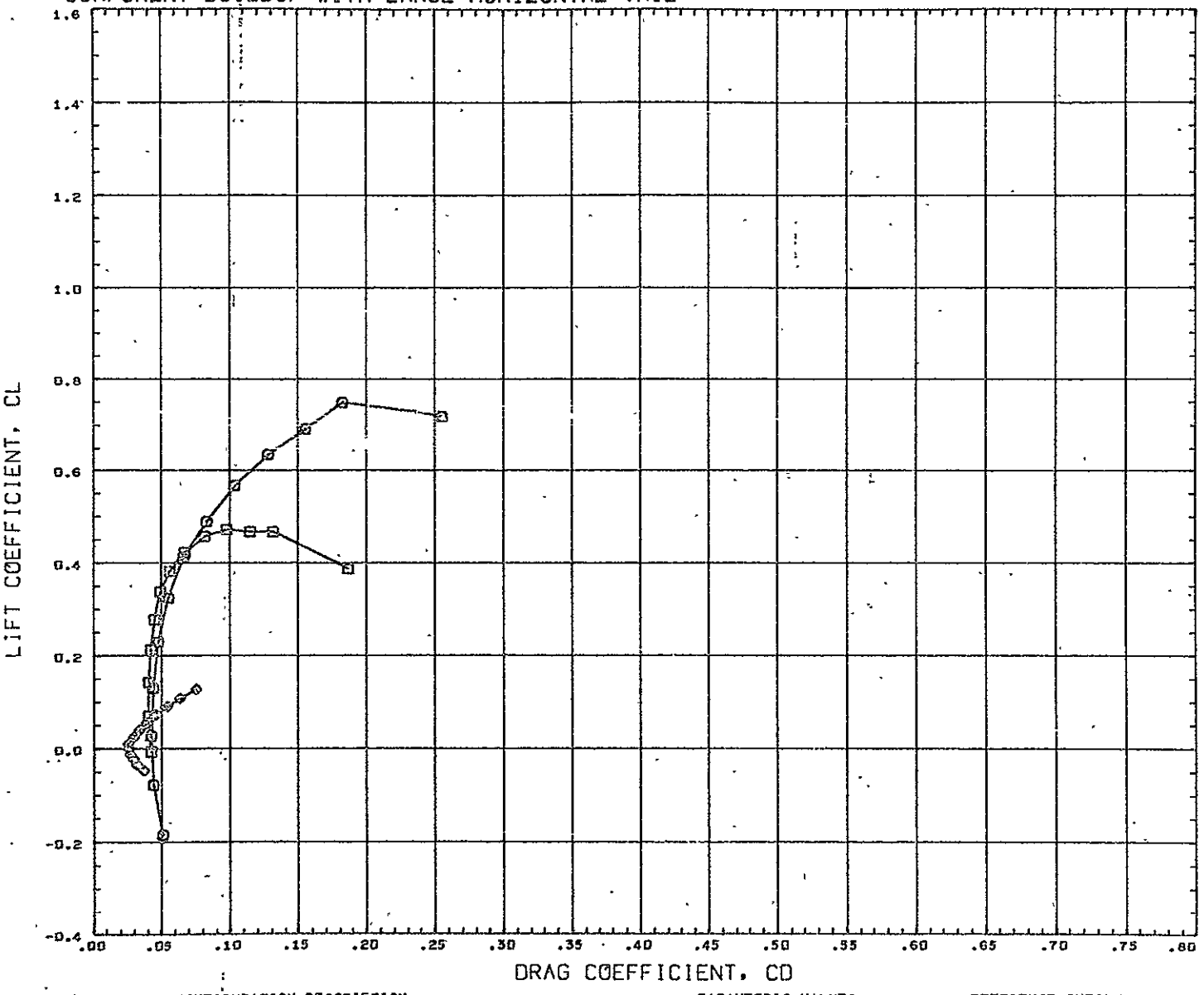
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8092)	○	CVLSWT TEST 580-0 B9W3AT5V5
(RC8081)	□	CVLSWT TEST 580-0 B9W3A
(RC8050)	◇	CVLSWT TEST 580-0 B9

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LARGE HORIZONTAL TAIL



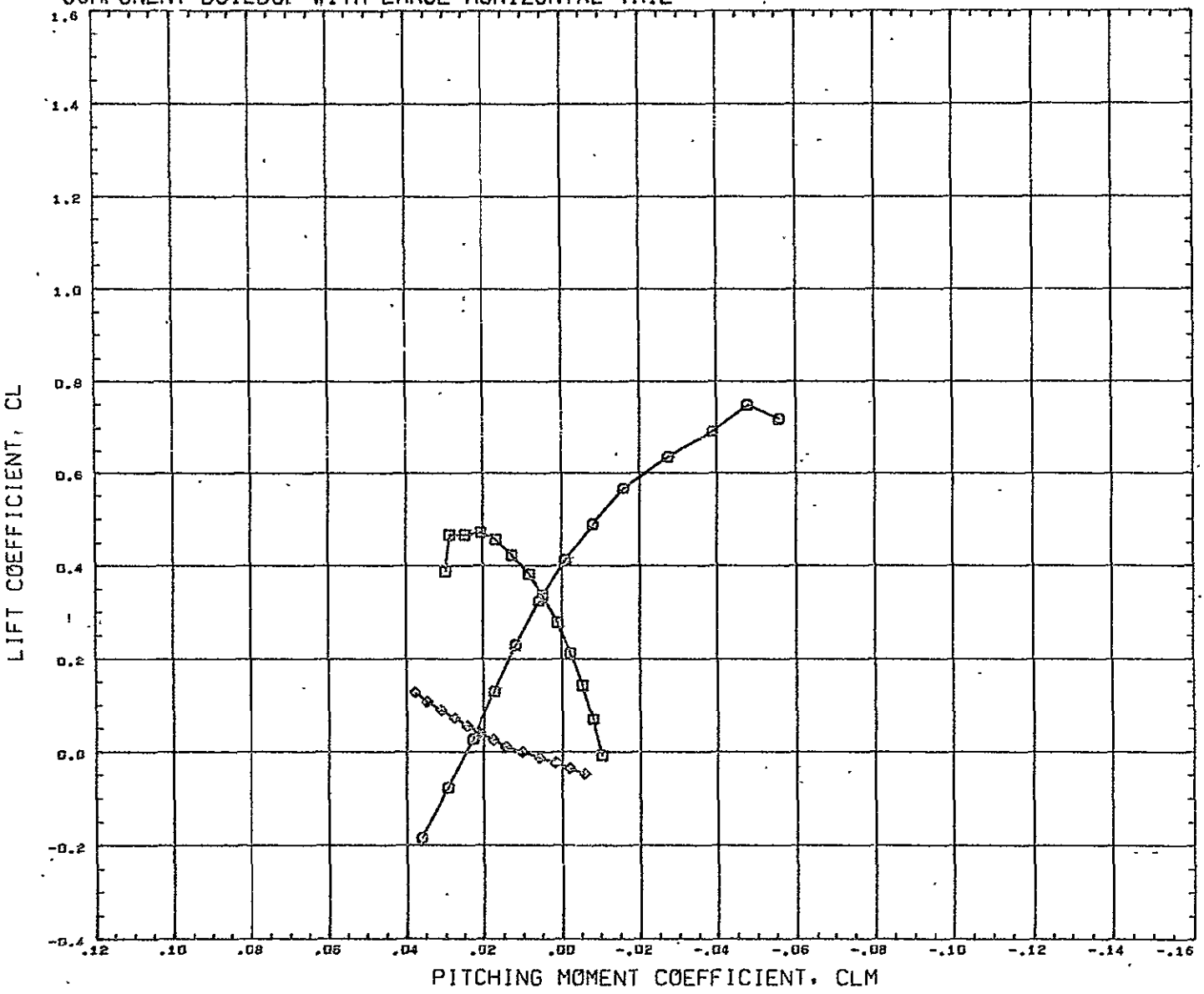
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8092)	○	CVLSWT TEST 580-0 B9W3AT5V5
(RC8001)	□	CVLSWT TEST 580-0 B9W3A
(RC8050)	◇	CVLSWT TEST 580-0 B9

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3929	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LARGE HORIZONTAL TAIL



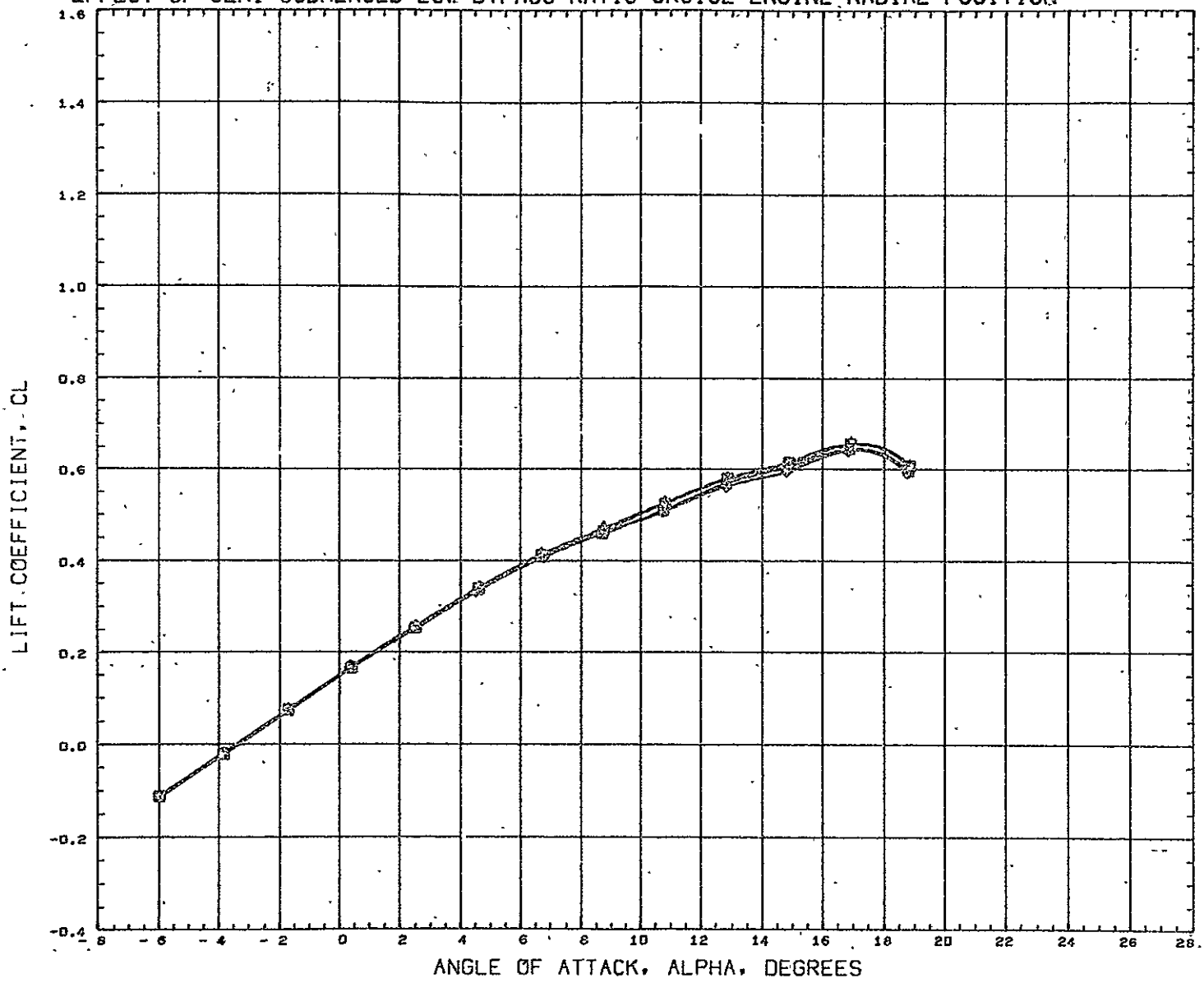
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8092)	○	CVLSWT TEST 580-0 B9W3AT5V5
(RC8001)	□	CVLSWT TEST 580-0 B9W3A
(RC8050)	◇	CVLSWT TEST 580-0 B9

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF SEMI-SUBMERGED LOW-BYPASS RATIO CRUISE ENGINE RADIAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8012)	○	CVLSWT TEST 580-0 B10W3AT4V4E14
(RC8013)	□	CVLSWT TEST 580-0 B10W3AT4V4E15
(RC8016)	◇	CVLSWT TEST 580-0 B10W3AT4V4E16
(RC8017)	△	CVLSWT TEST 580-0 B10W3AT4V4E17

MACH 0.259

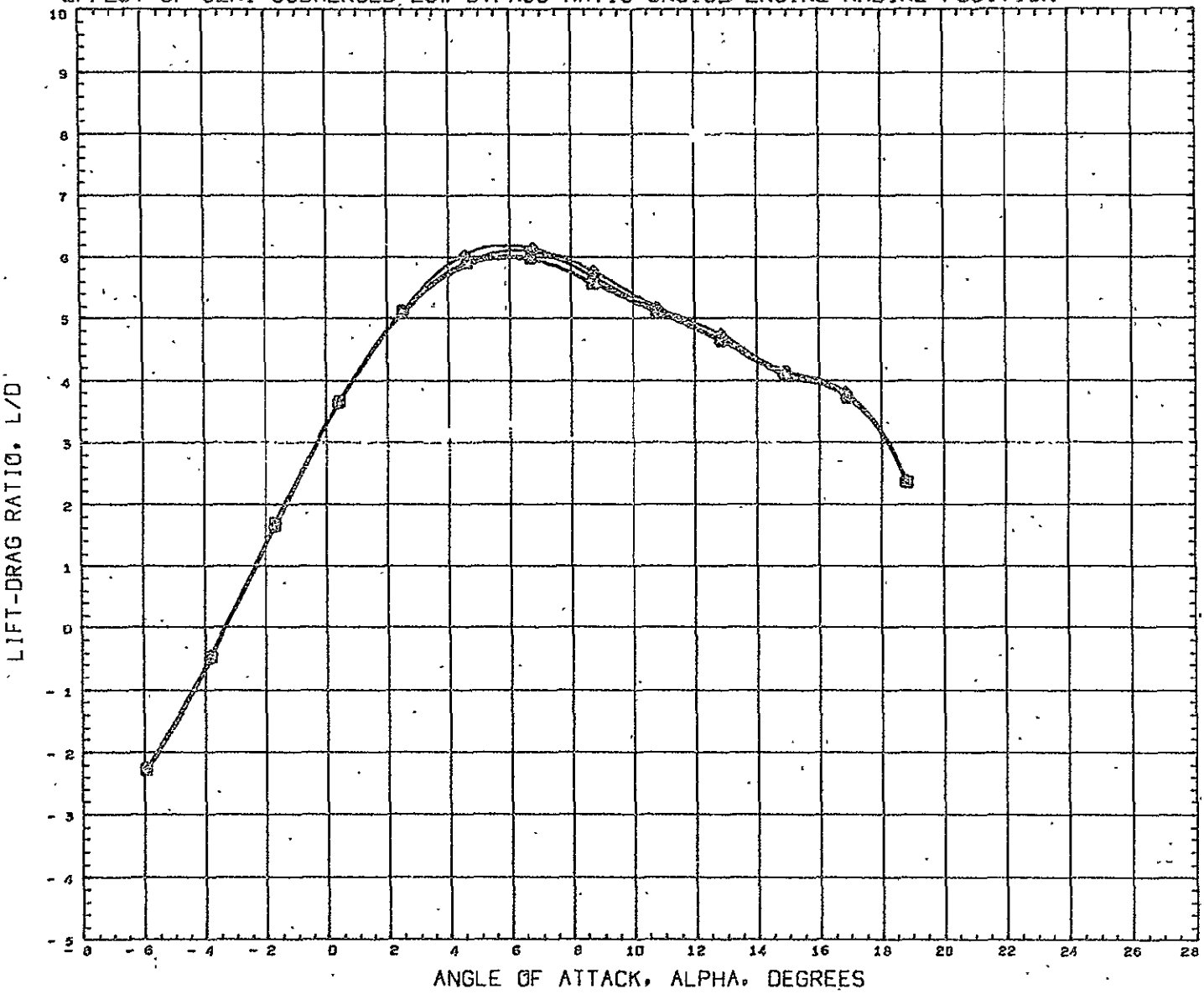
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	14.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

EFFECT OF SEMI-SUBMERGED LOW-BYPASS RATIO CRUISE ENGINE RADIAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8012)	○	CVLSWT TEST 580-0 B10W3AT4V4E14
(RC8013)	□	CVLSWT TEST 580-0 B10W3AT4V4E15
(RC8016)	◇	CVLSWT TEST 580-0 B10W3AT4V4E16
(RC8017)	△	CVLSWT TEST 580-0 B10W3AT4V4E17

MACH 0.259

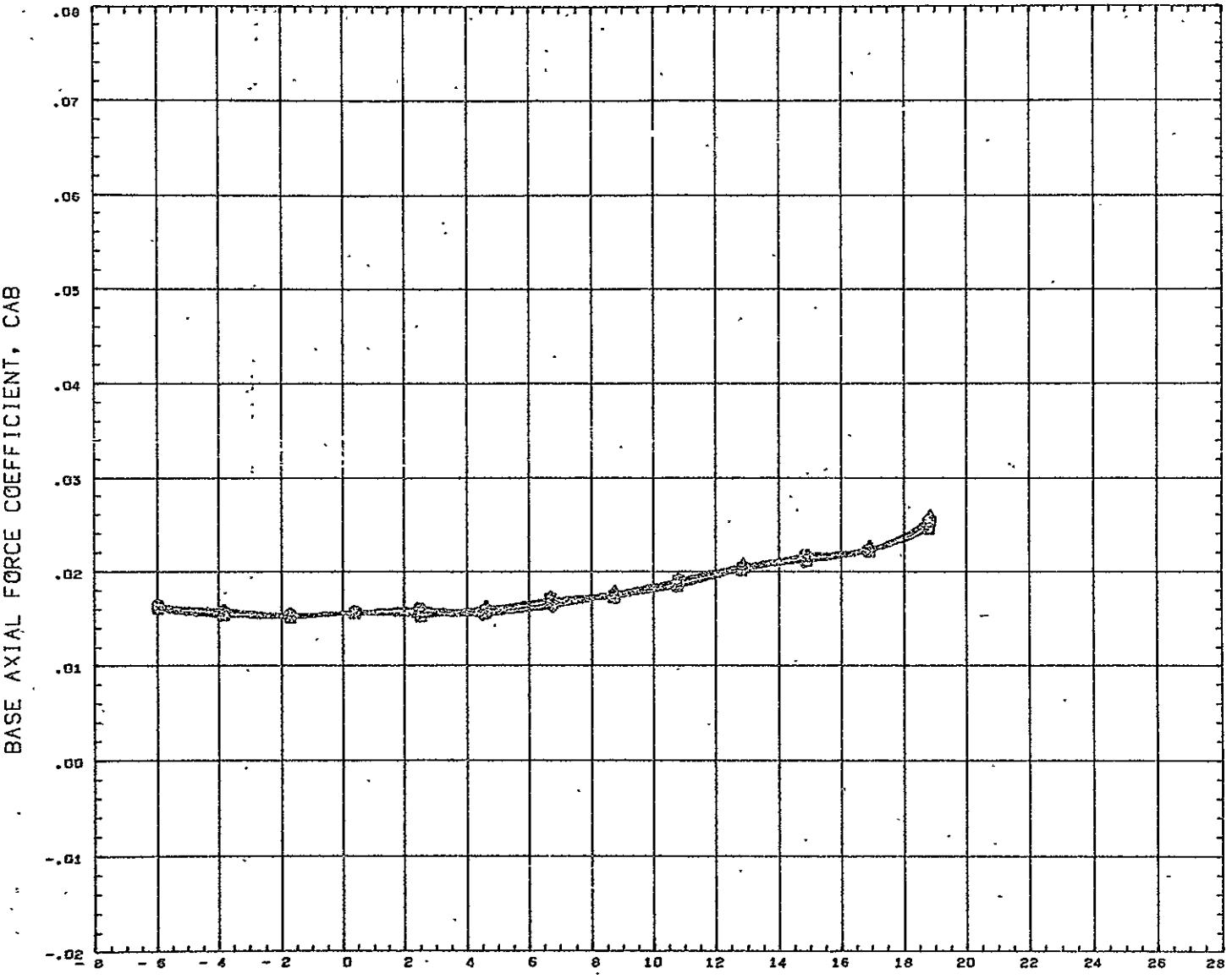
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	14.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF SEMI-SUBMERGED LOW-BYPASS RATIO CRUISE ENGINE RADIAL POSITION



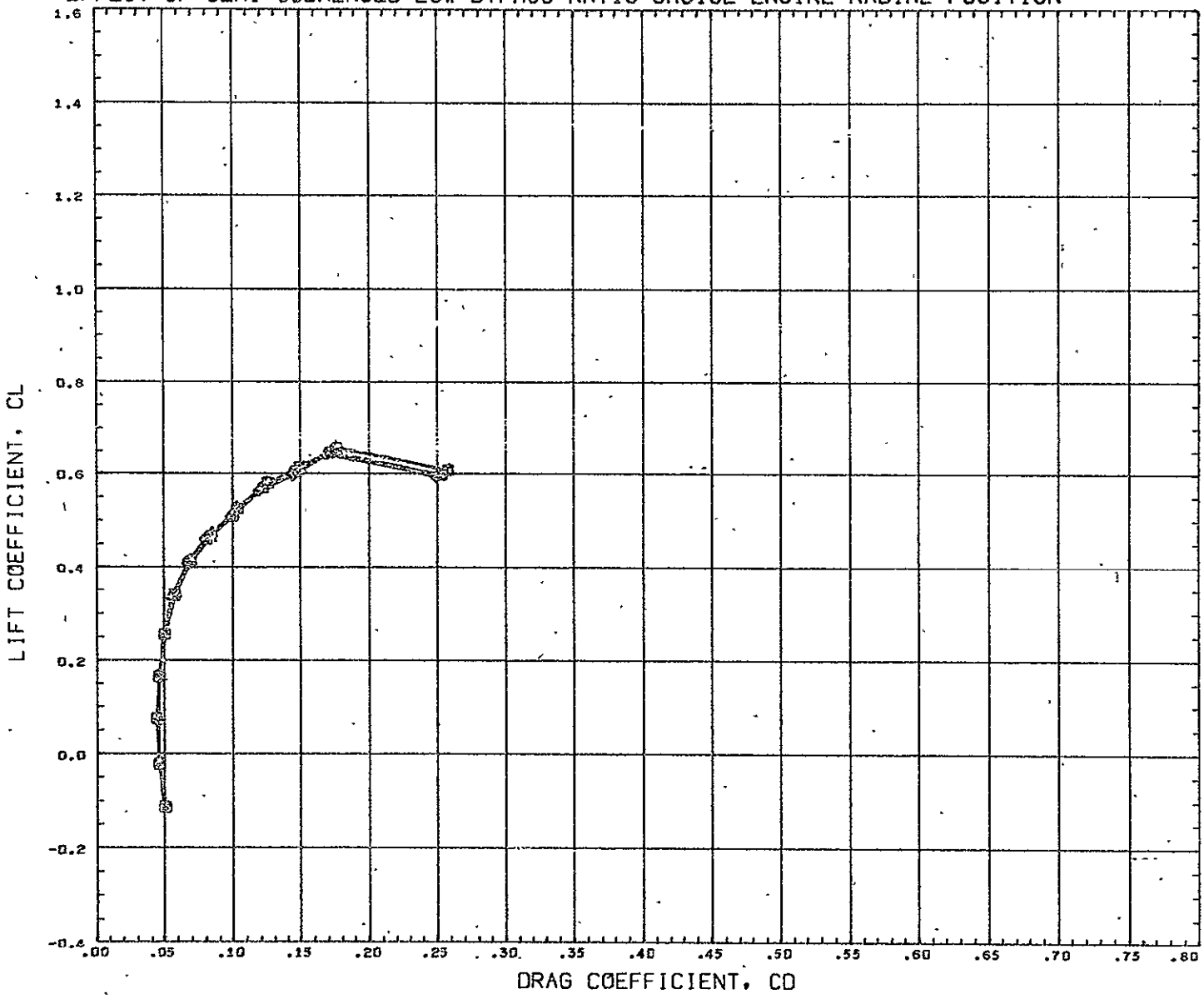
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8012)	○	CVLSWT TEST 580-0 B10W3AT4V4E14
(RC8013)	□	CVLSWT TEST 580-0 B10W3AT4V4E15
(RC8016)	◇	CVLSWT TEST 580-0 B10W3AT4V4E16
(RC8017)	△	CVLSWT TEST 580-0 B10W3AT4V4E17

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	14.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF SEMI-SUBMERGED LOW-BYPASS RATIO CRUISE ENGINE RADIAL POSITION



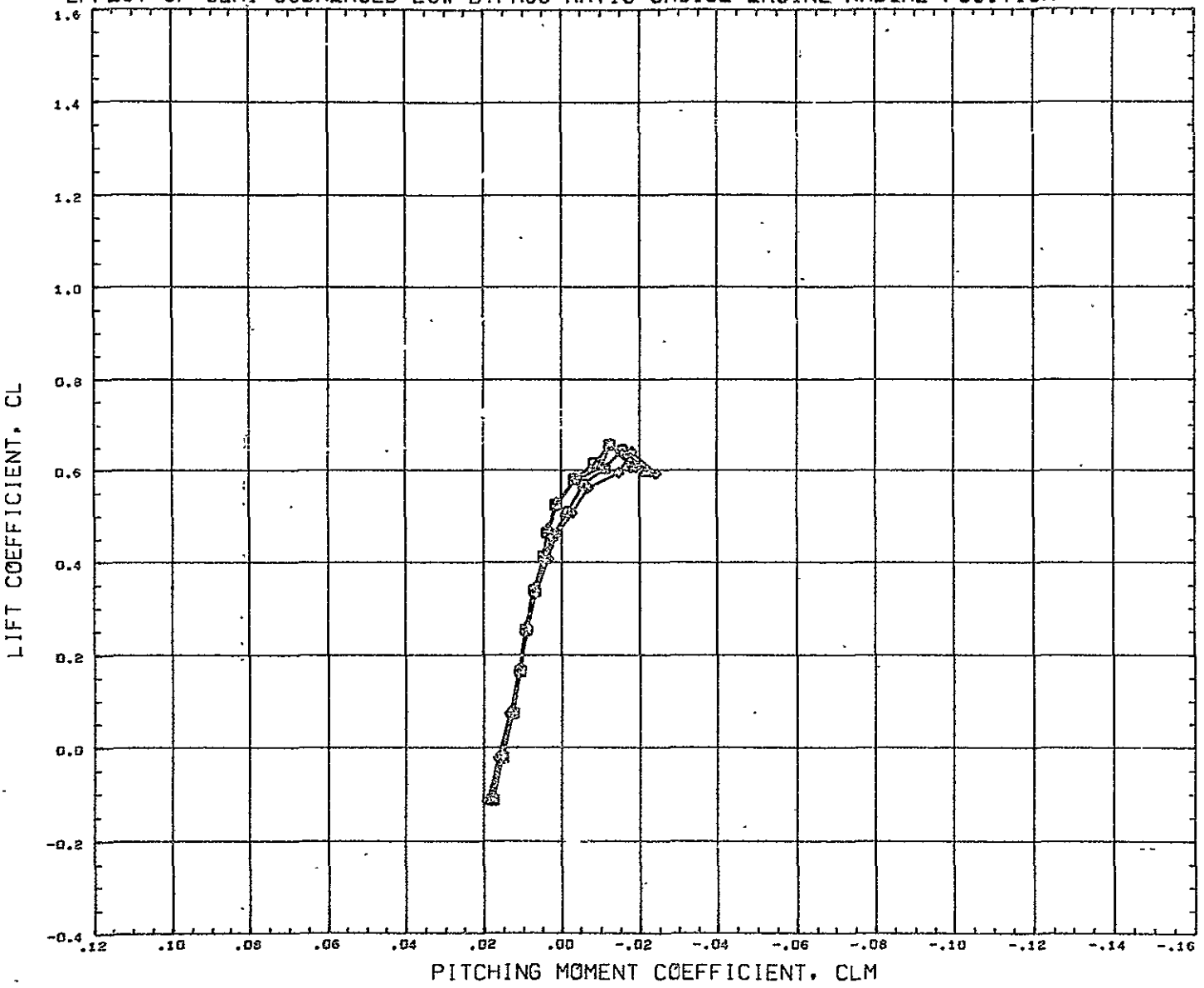
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8012)	○	CVLSWT TEST 580-0 B10W3AT4V4E14
(RC8013)	□	CVLSWT TEST 580-0 B10W3AT4V4E15
(RC8016)	◇	CVLSWT TEST 580-0 B10W3AT4V4E16
(RC8017)	△	CVLSWT TEST 580-0 B10W3AT4V4E17

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	14.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF SEMI-SUBMERGED LOW-BYPASS RATIO CRUISE ENGINE RADIAL POSITION



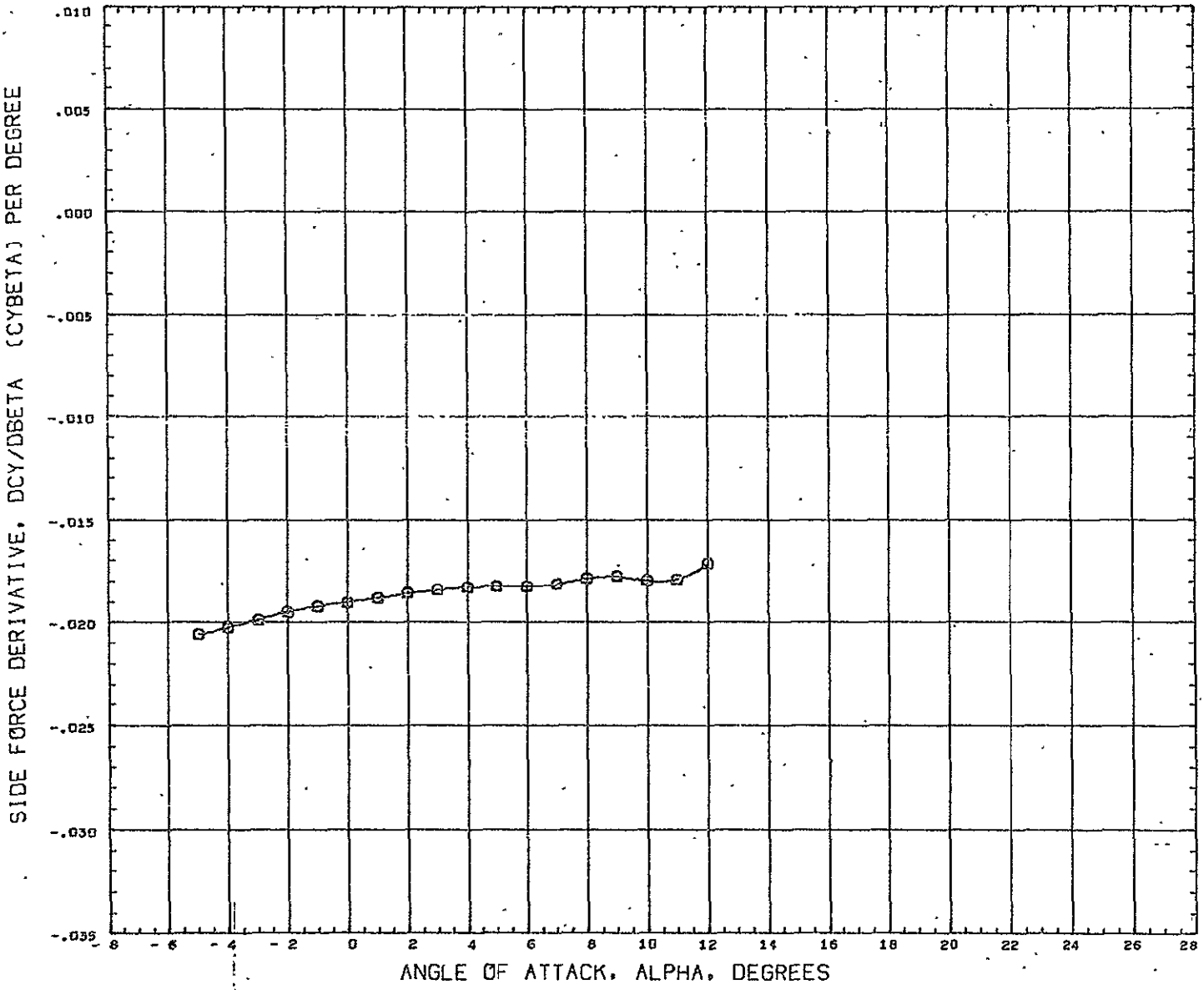
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8012)	○	CVLSWT TEST 580-0 B10W3AT4V4E14
(RC8013)	□	CVLSWT TEST 580-0 B10W3AT4V4E15
(RC8016)	◇	CVLSWT TEST 580-0 B10W3AT4V4E16
(RC8017)	△	CVLSWT TEST 580-0 B10W3AT4V4E17

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	14.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LATERAL DIRECTIONAL DATA WITH SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES



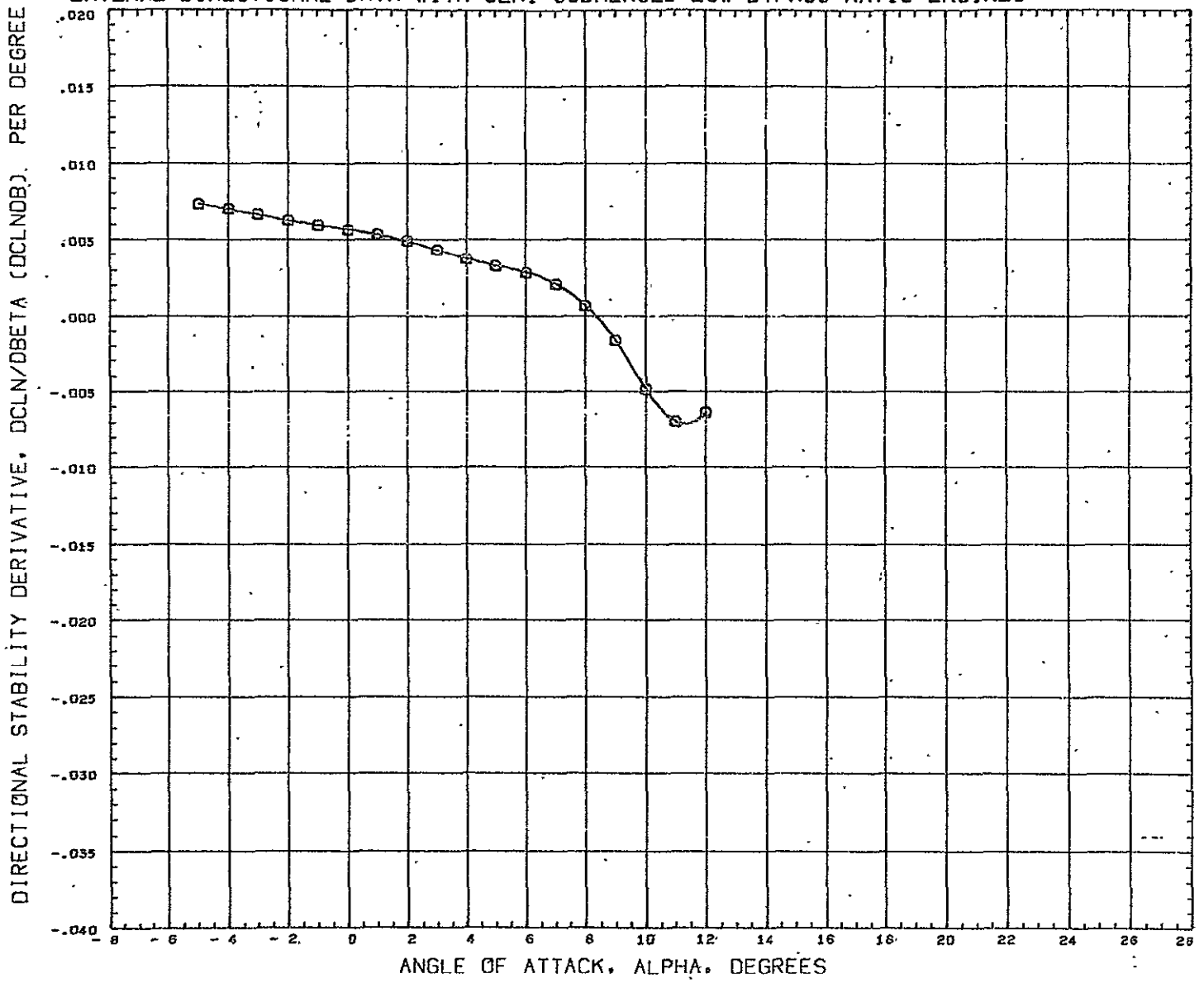
SYMBOL	MACH		PARAMETRIC VALUES		
O	0.259	BETA	- 4.000	ELEVTR	0.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	17.000

DATA HIST. CODE #F

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LATERAL DIRECTIONAL DATA WITH SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES



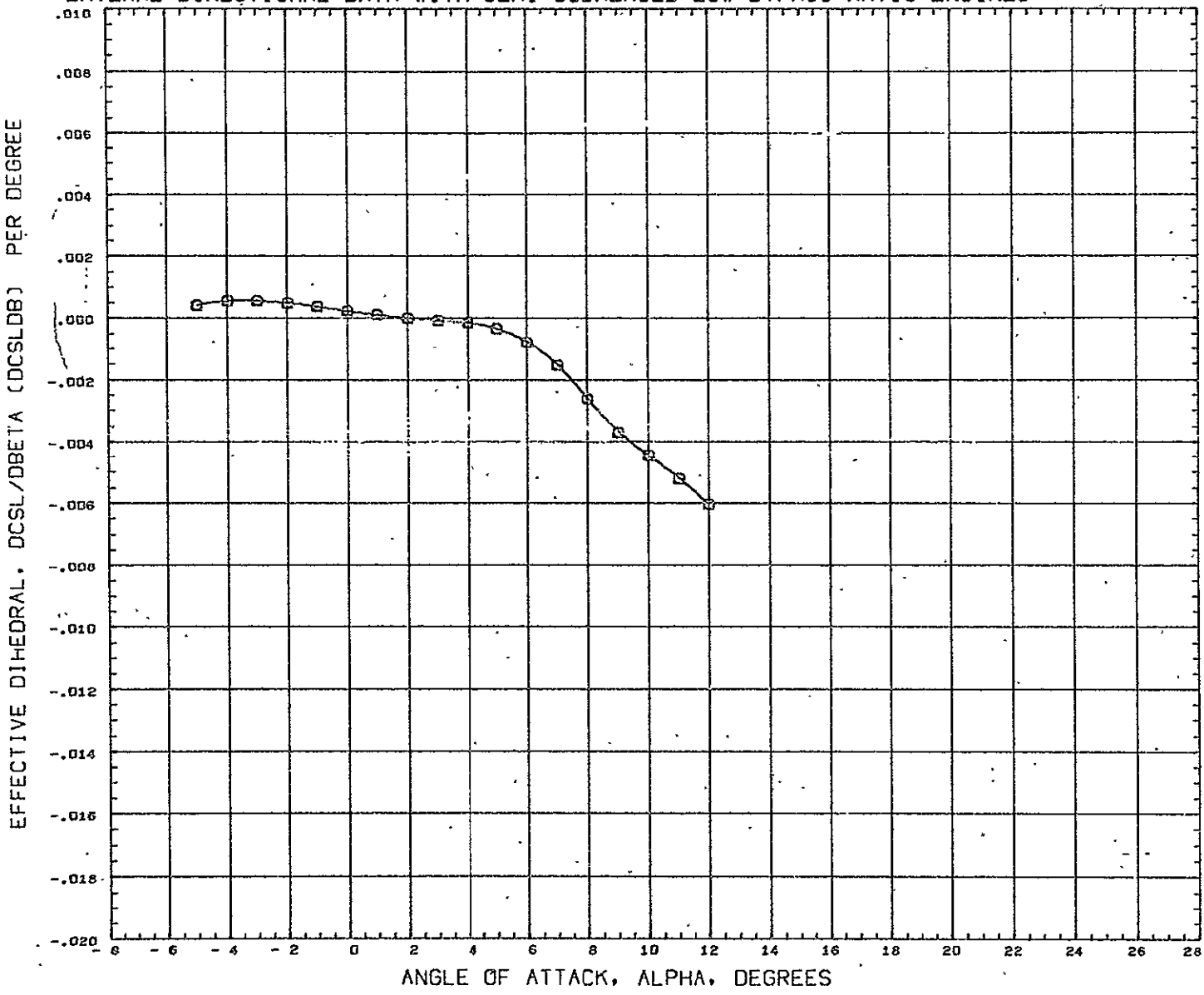
SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	- 4.000	ELEVTR	0.000
		RUDDER	0.000	FLAPS	0.000
		SFOILR	0.000	ENGINE	17.000

DATA HIST. CODE #F

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LATERAL DIRECTIONAL DATA WITH SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES

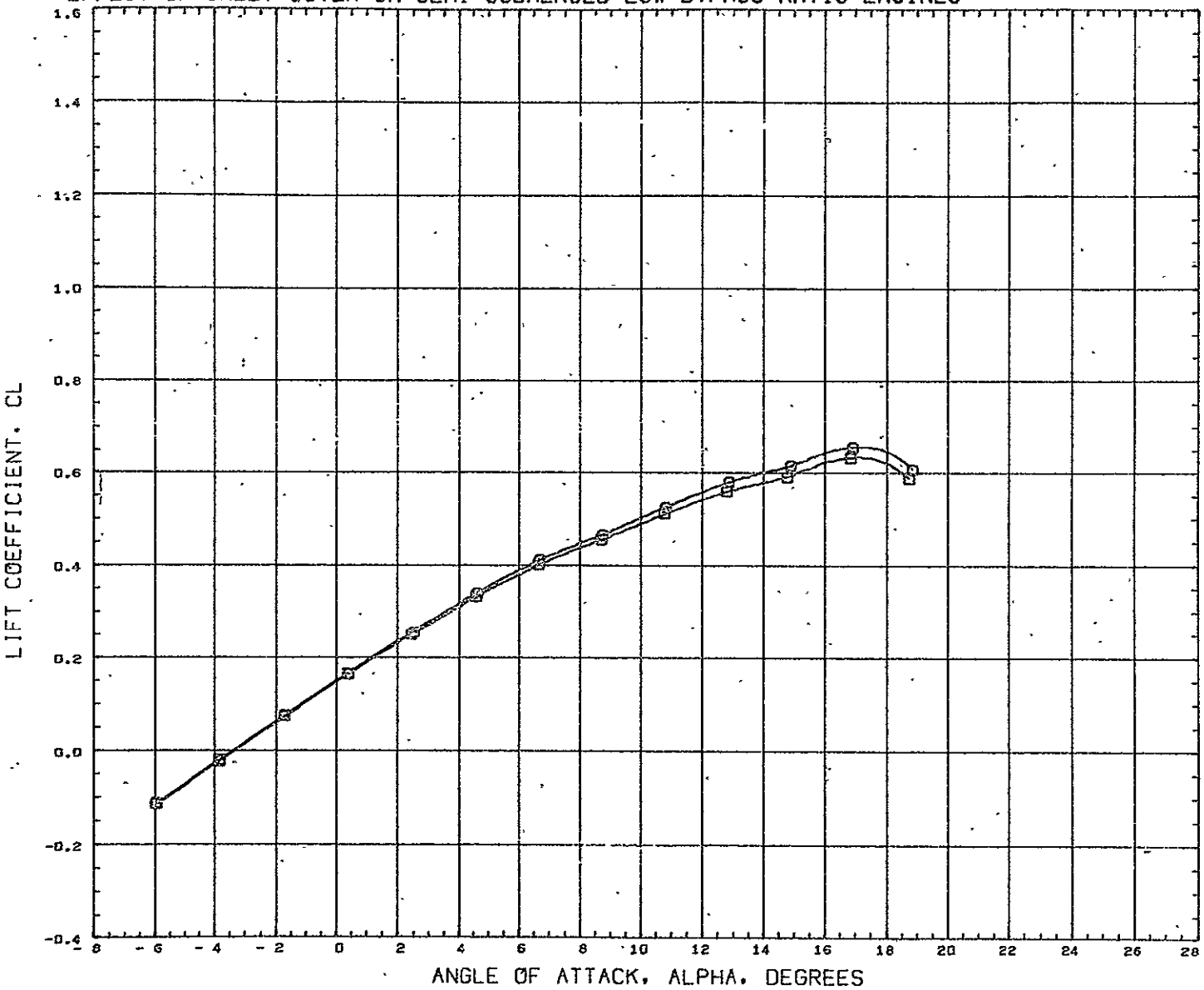


SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	- 4.000	ELEVTR	0.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	17.000

DATA HIST. CODE #P

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF INLET COVER ON SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES



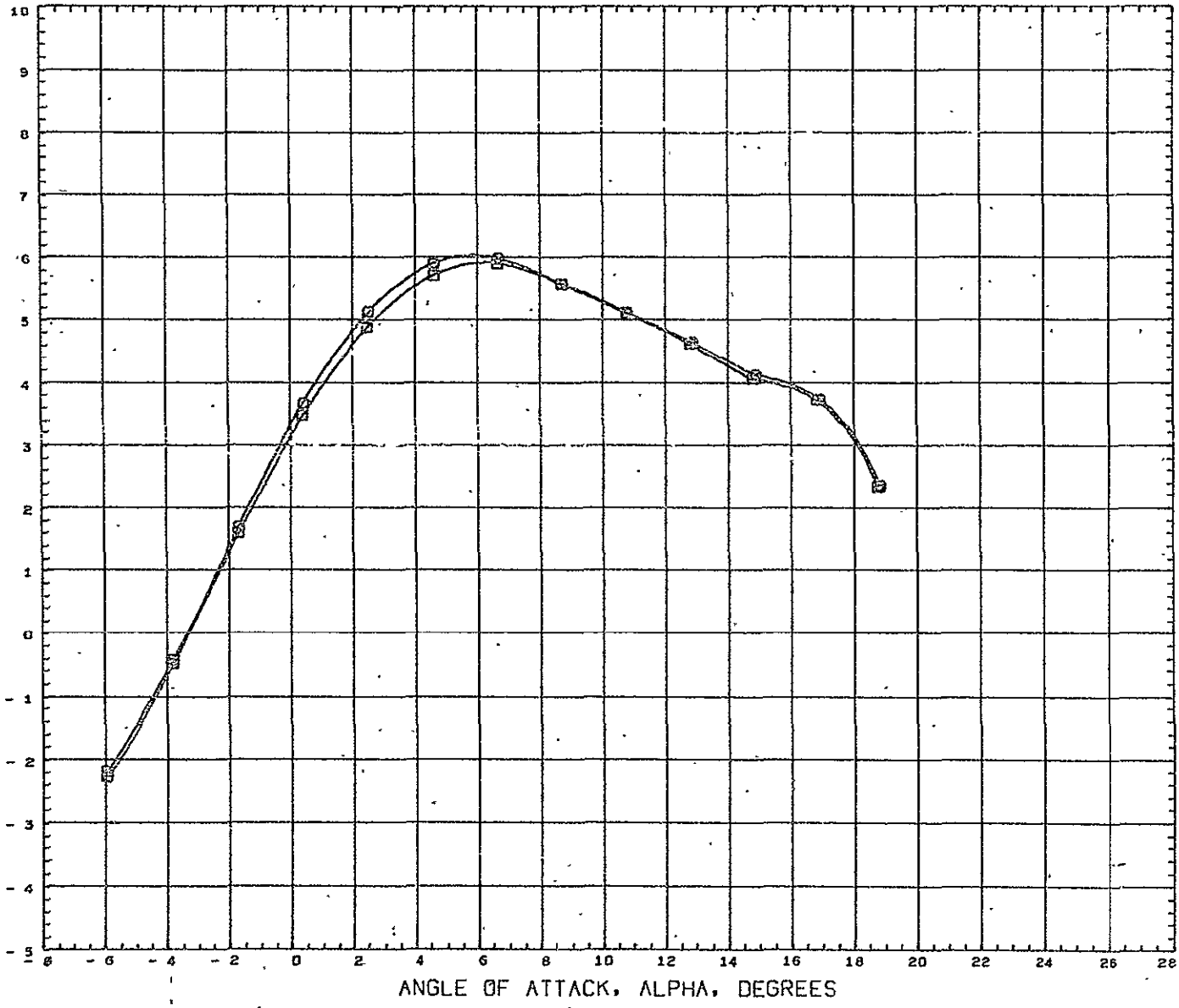
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8013)	○	CVLSWT TEST 580-0 B10W3AT4V4E15
(RC8014)	□	CVLSWT TEST 580-0 B10W3AT4V4E24

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	15.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF INLET COVER ON SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES.



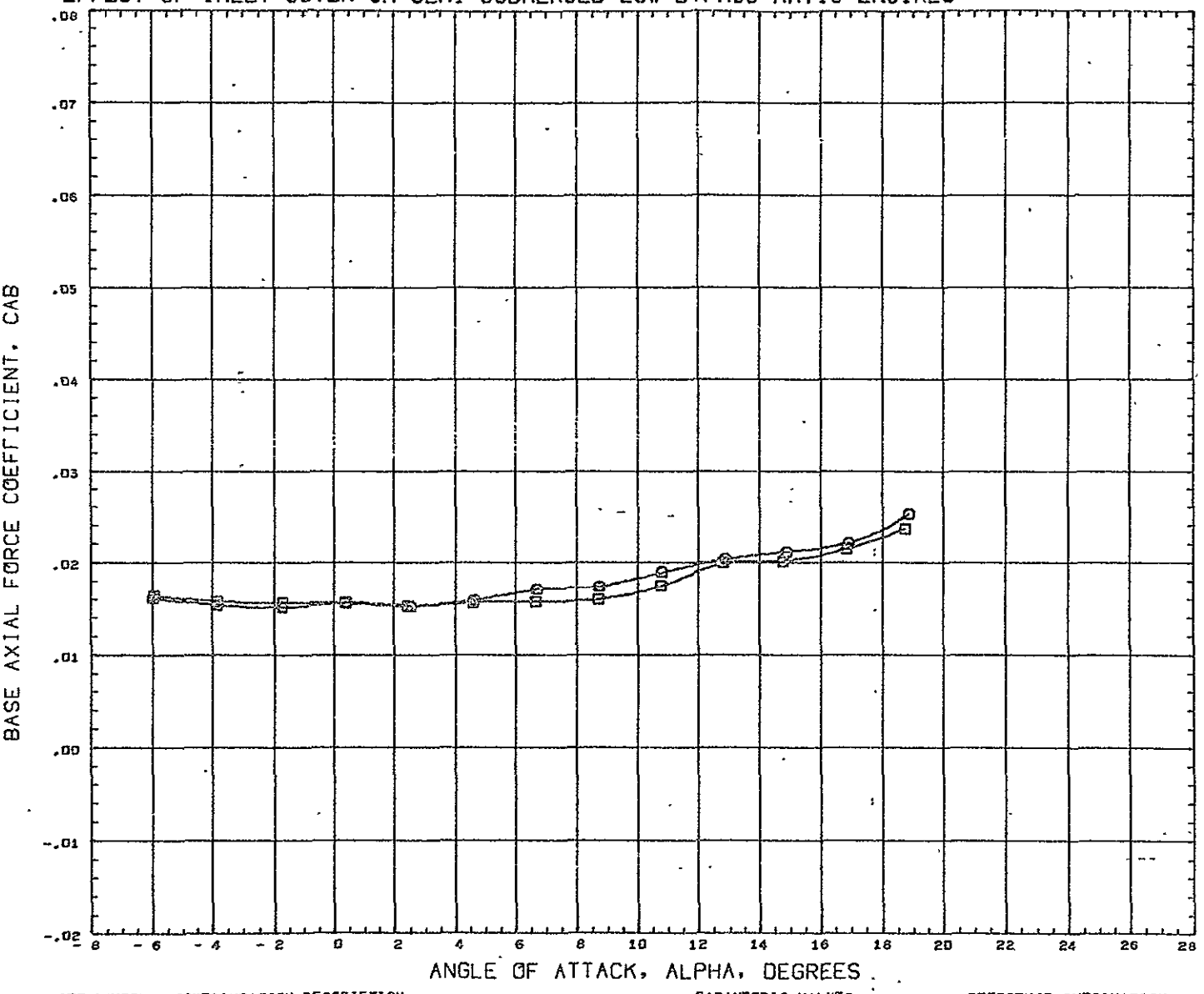
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8013)	○	CVLSWT TEST 580-0 B10W3AT4V4E15
(RC8014)	□	CVLSWT TEST 580-0 B10W3AT4V4E24

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	15.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF INLET COVER ON SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES



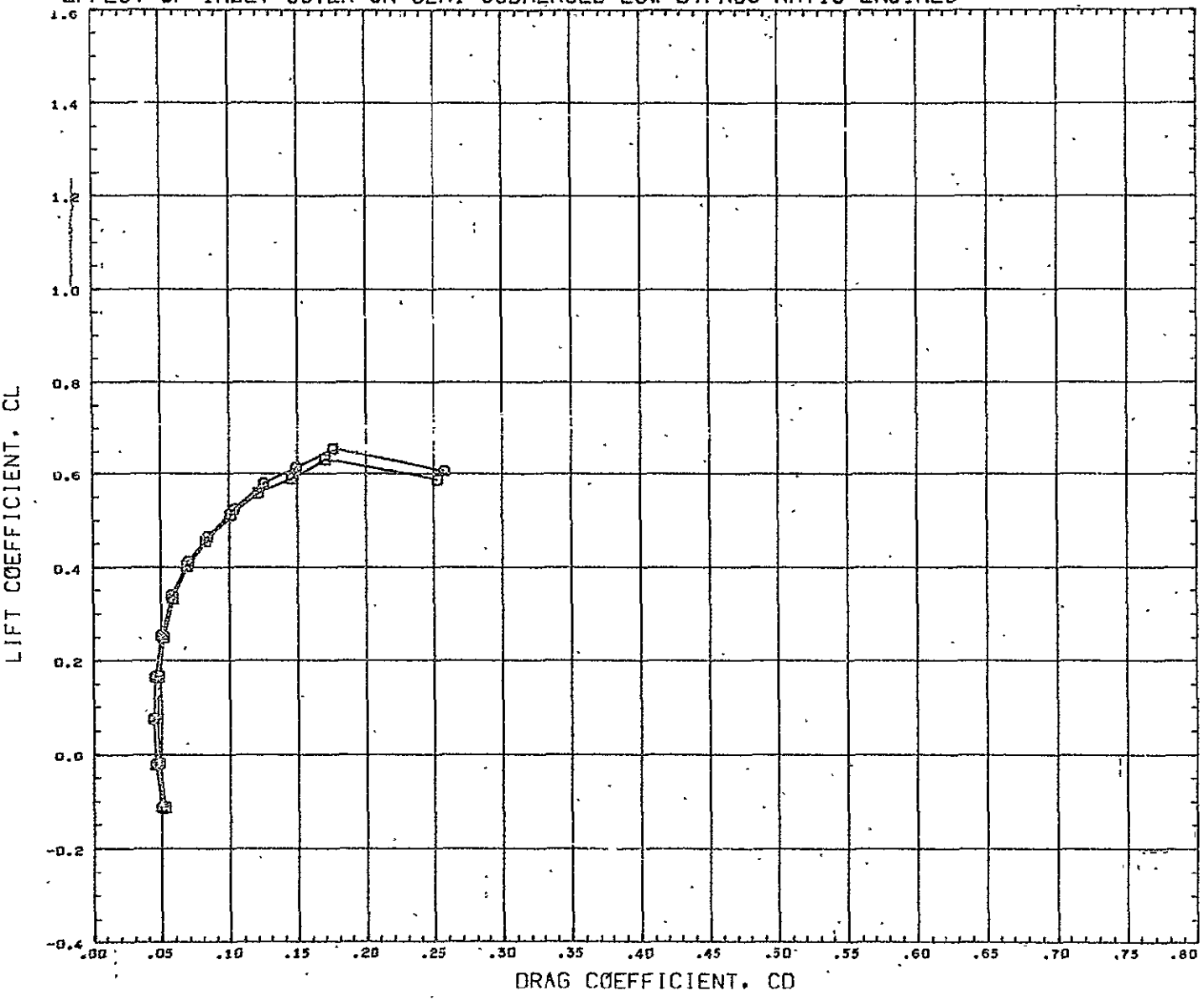
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8013)	○	CVLSWT TEST 580-0 B10W3AT4V4E15
(RC8014)	□	CVLSWT TEST 580-0 B10W3AT4V4E24

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	15.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF INLET COVER ON SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES



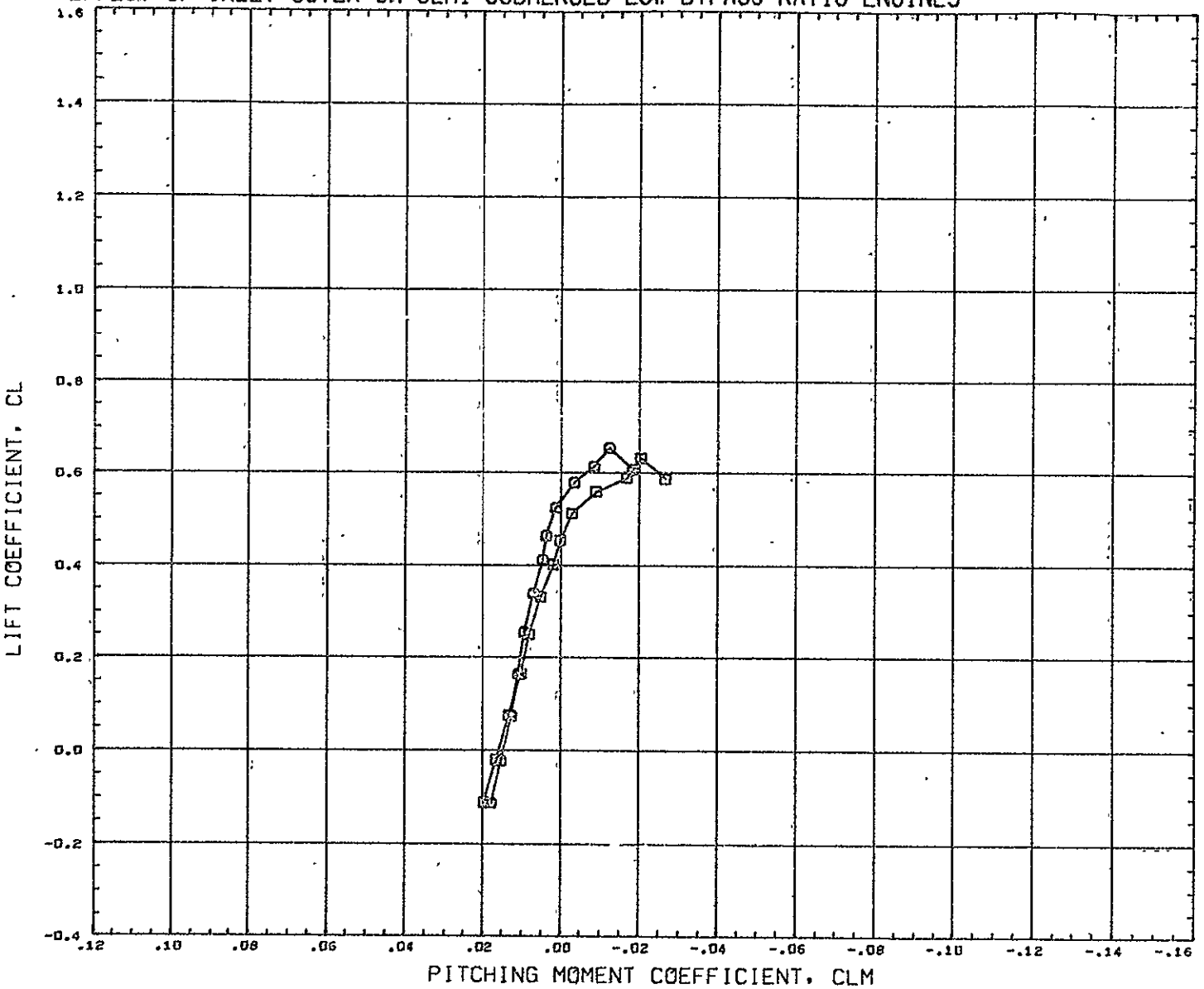
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8013)	○	CVLSWT TEST 580-0 B10W3AT4V4E15
(RC8014)	□	CVLSWT TEST 580-0 B10W3AT4V4E24

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	15.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF INLET COVER ON SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8013)	○	CVLSWT TEST 530-0 B10W3AT4V4E15
(RC8014)	□	CVLSWT TEST 580-0 B10W3AT4V4E24

MACH 0.259

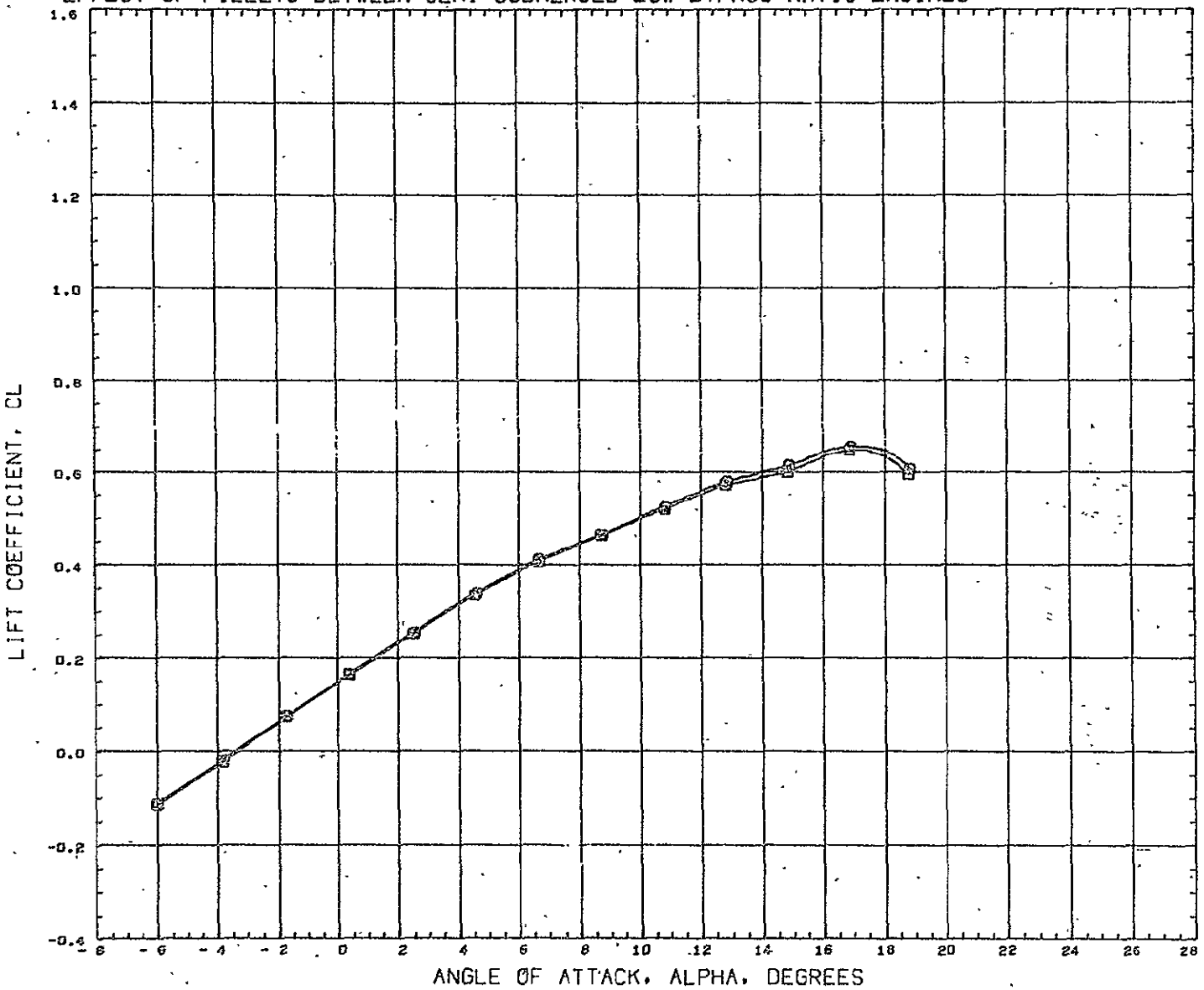
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	15.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF FILLETS BETWEEN SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES



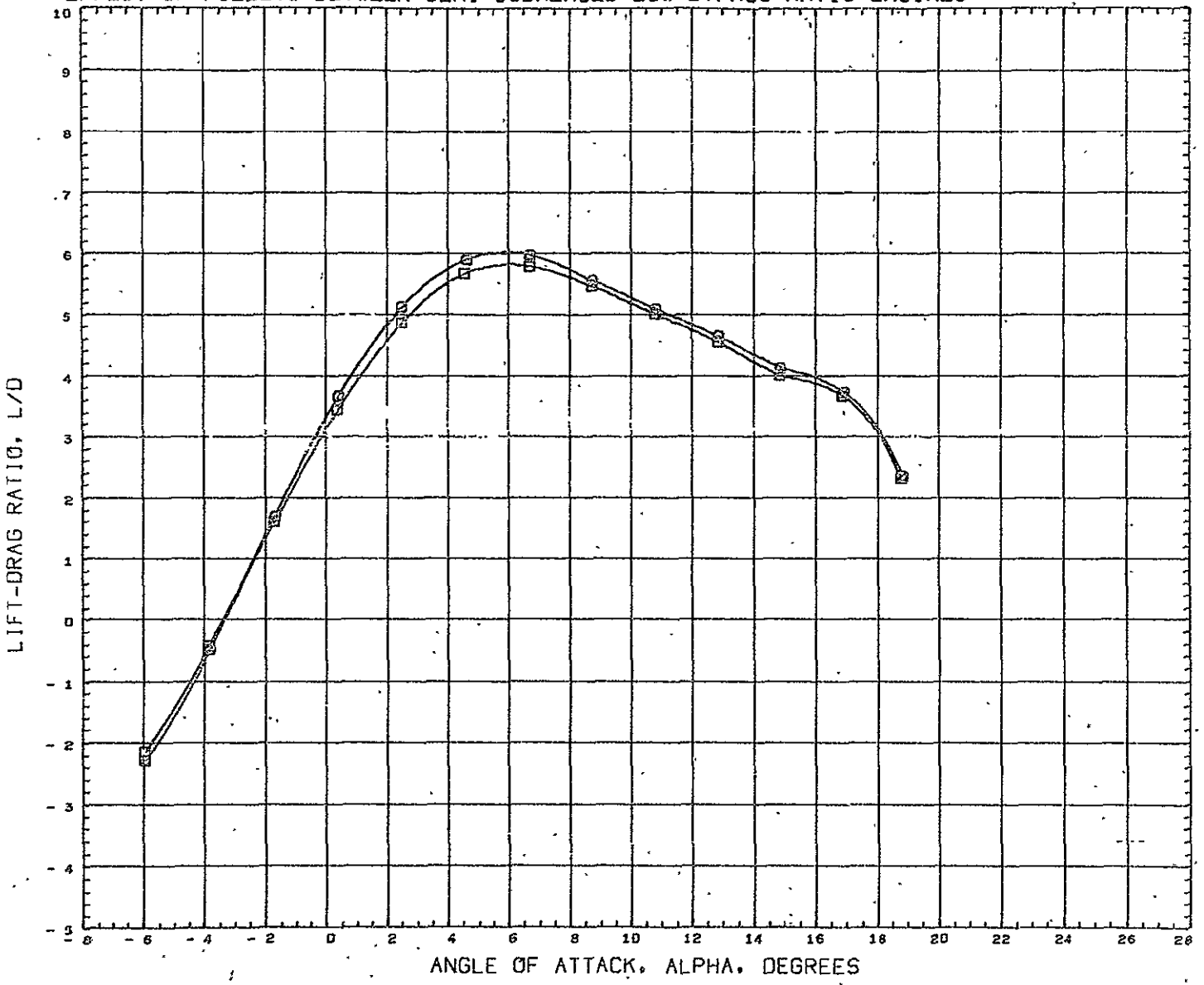
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8013)	○	CVLSWT TEST 580-0 B10W3AT4V4E15
(RC8015)	□	CVLSWT TEST 580-0 B10W3AT4V4E25

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	15.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF FILLETS BETWEEN SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES



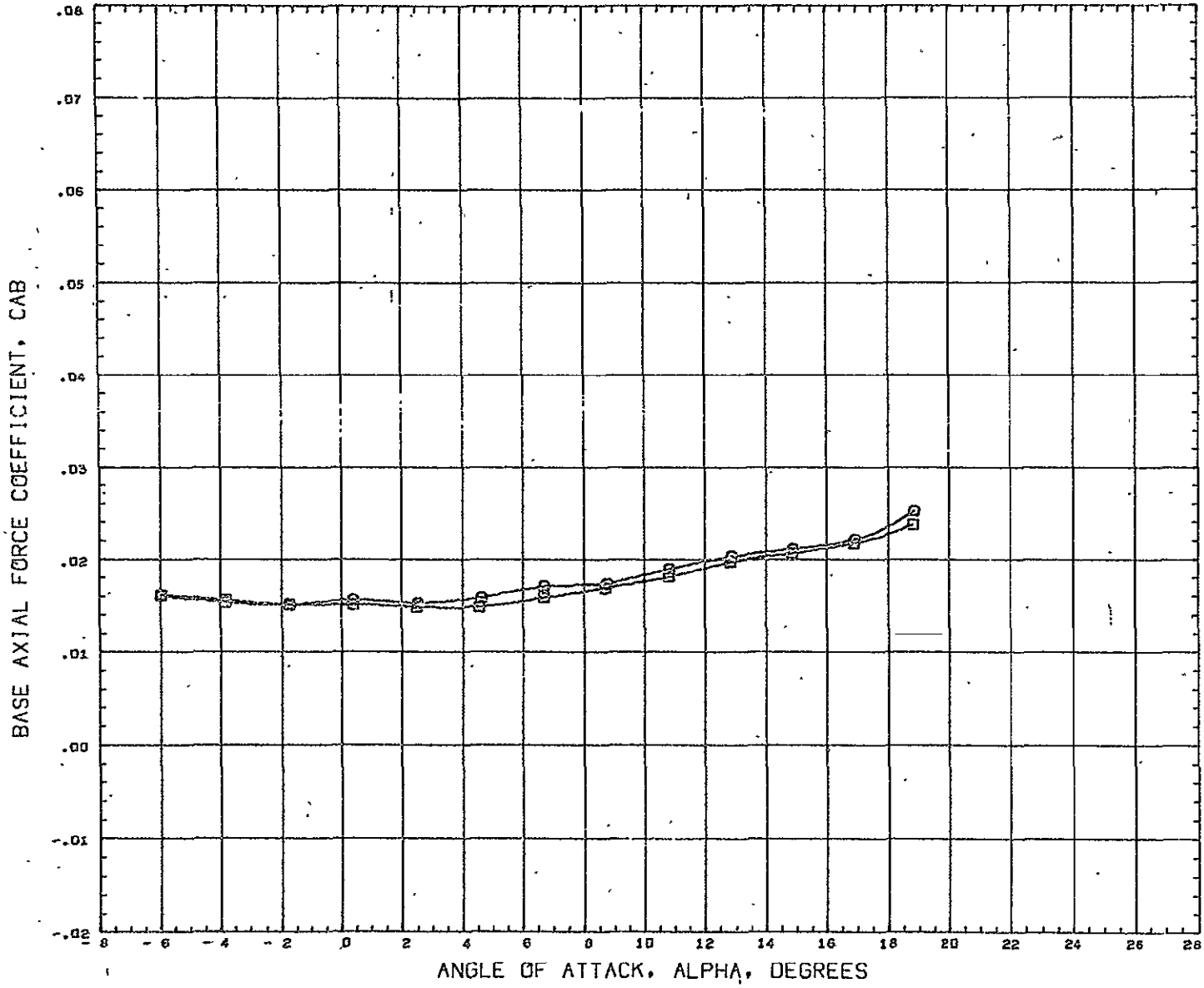
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8013)	□	CVLSWT TEST 580-0 B10W3AT4V4E15
(RC8015)	□	CVLSWT TEST 580-0 B10W3AT4V4E25

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	15.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF FILLETS BETWEEN SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC0013)	○	CVLSWT TEST 580-0 B10W3AT4V4E15
(RC0015)	□	CVLSWT TEST 580-0 B10W3AT4V4E25

PARAMETRIC VALUES

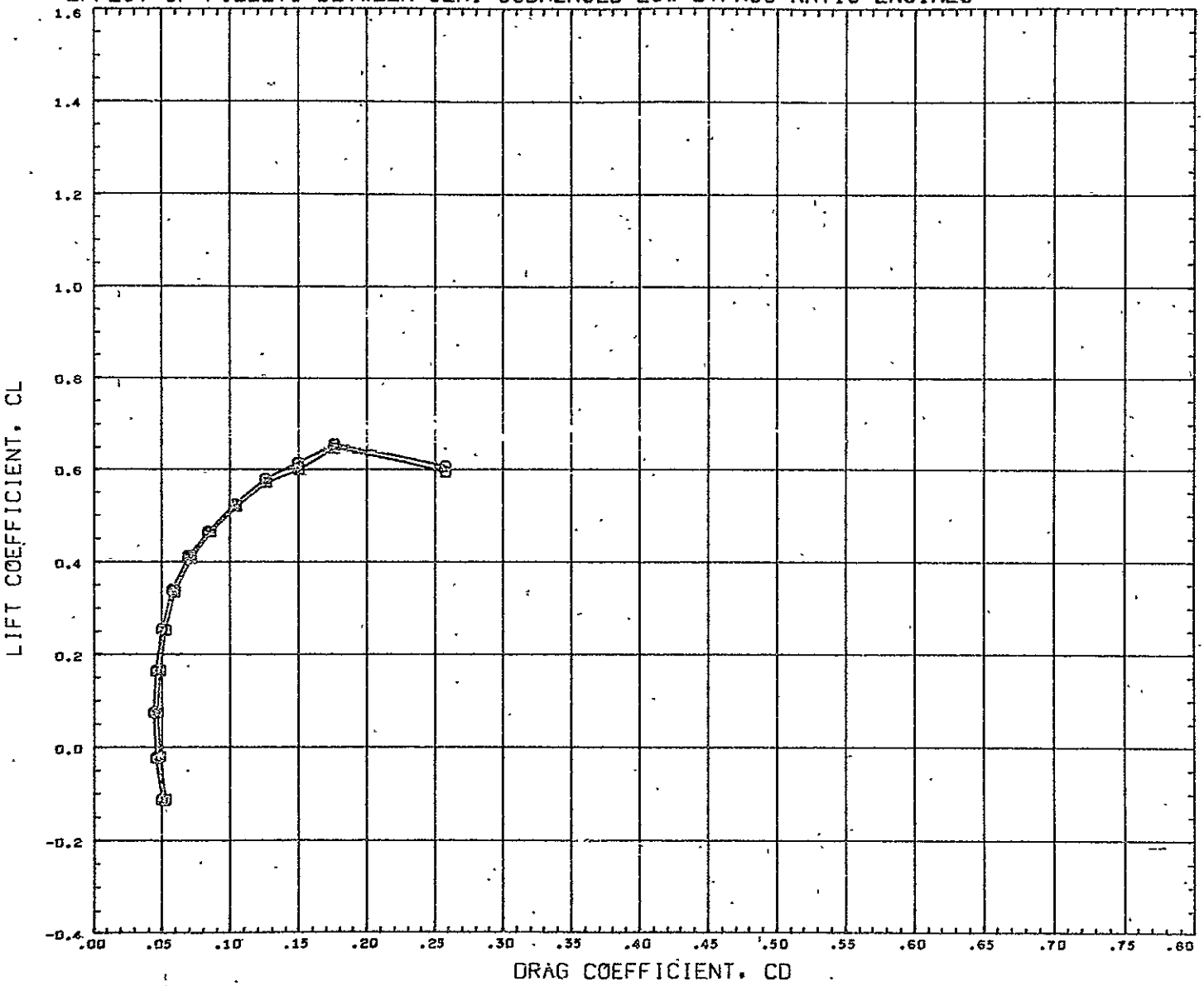
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	15.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF FILLETS BETWEEN SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES



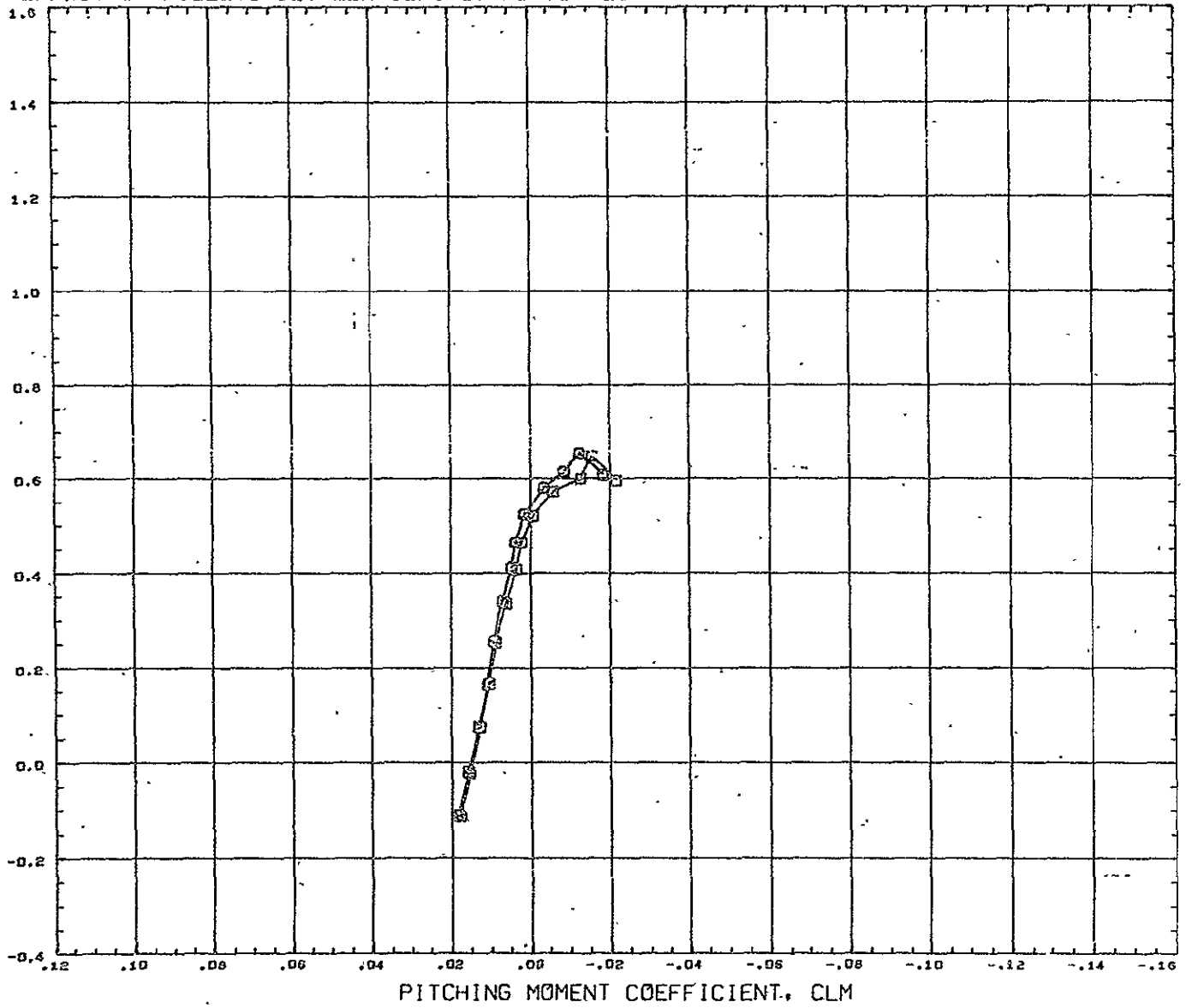
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8013)	○	CVLSWT TEST 580-0 B10W3AT4V4E15
(RC8015)	□	CVLSWT TEST 580-0 B10W3AT4V4E25

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	15.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

EFFECT OF FILLETS BETWEEN SEMI-SUBMERGED LOW-BYPASS RATIO ENGINES



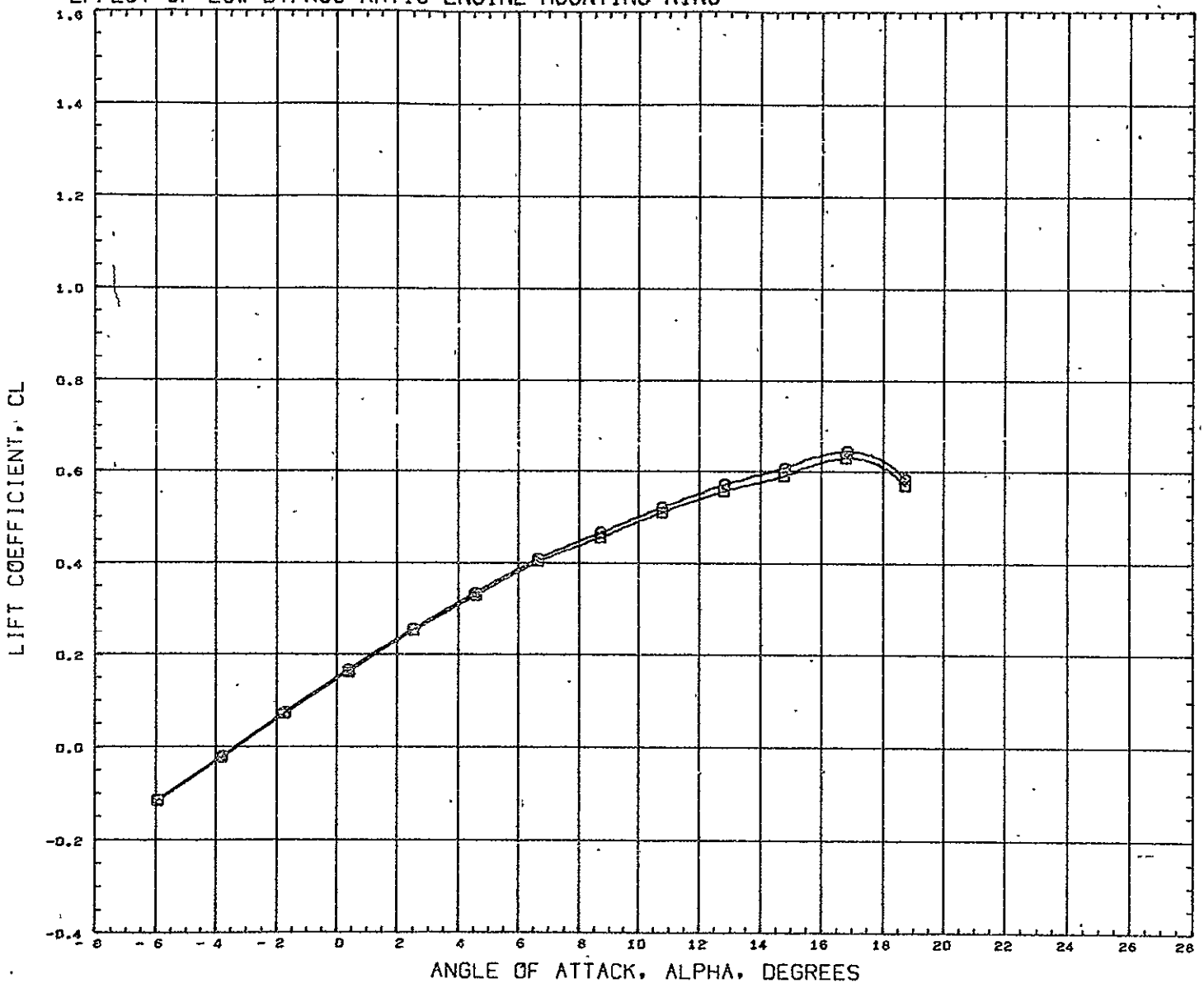
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8013)	○	CVLSWT TEST 580-0 B10W3AT4V4E15
(RC8015)	□	CVLSWT TEST 580-0 B10W3AT4V4E25

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	15.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINE MOUNTING RING



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8031)	□	CVLSWT TEST 580-0 B9W3AT4V4K2

MACH 0.259

PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINE MOUNTING RING

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8031)	□	CVLSWT TEST 580-0 B9W3AT4V4K2

MACH 0.259

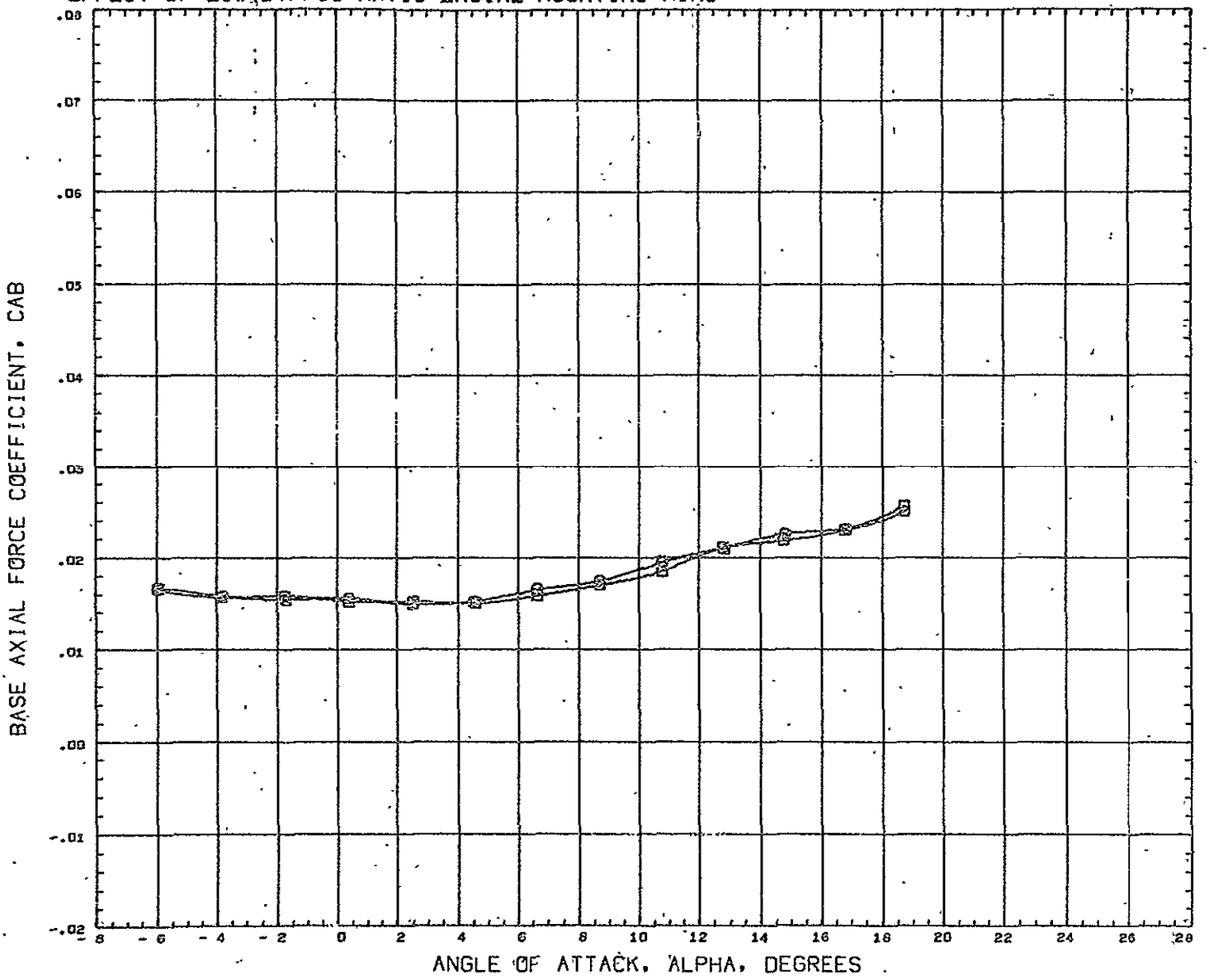
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINE MOUNTING RING



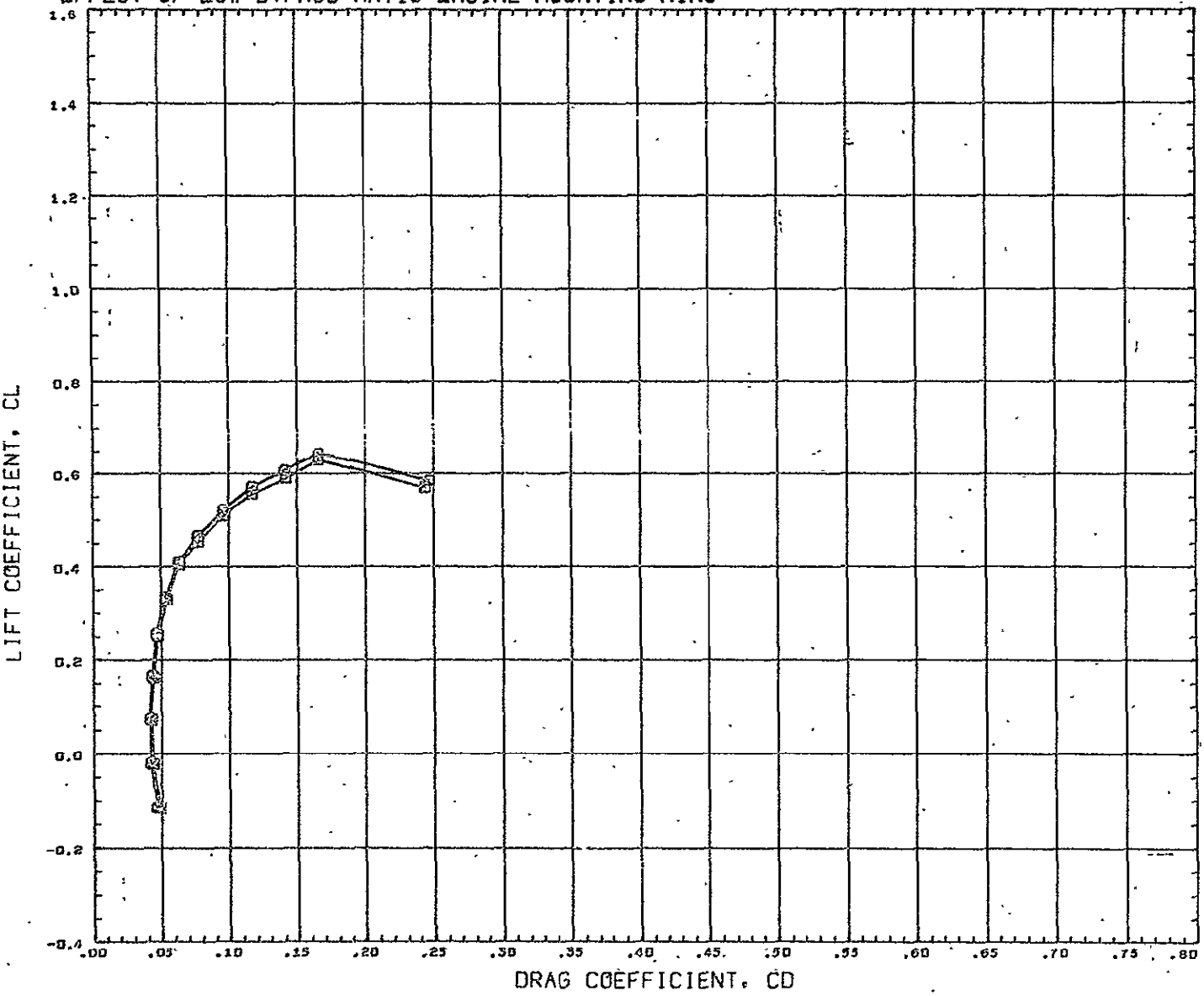
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8031)	□	CVLSWT TEST 580-0 B9W3AT4V4K2

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF LOW-BYPASS RATIO ENGINE MOUNTING RING



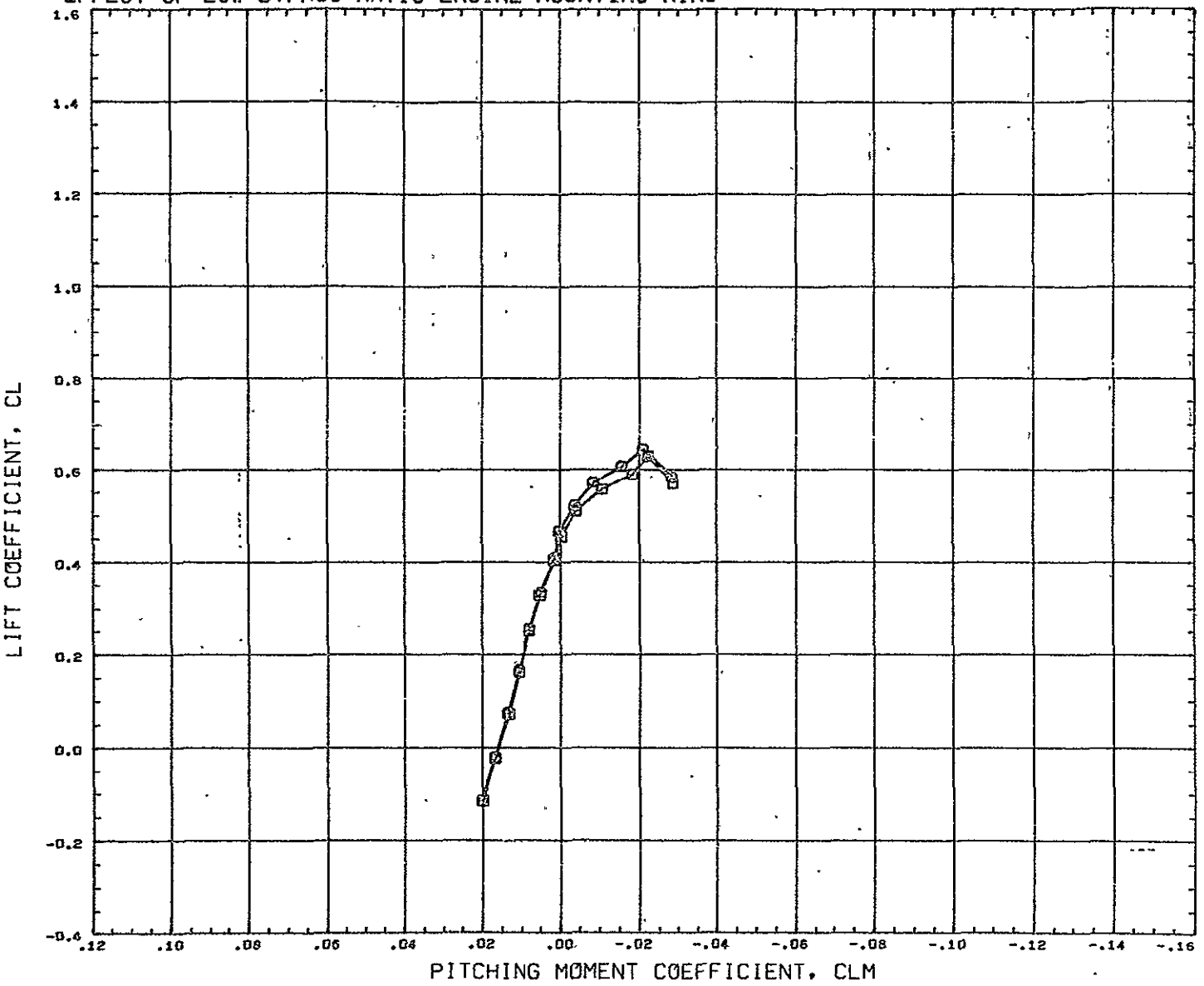
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC0002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC0031)	□	CVLSWT TEST 580-0 B9W3AT4V4K2

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINE MOUNTING RING



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8031)	□	CVLSWT TEST 580-0 B9W3AT4V4K2

MACH 0.259

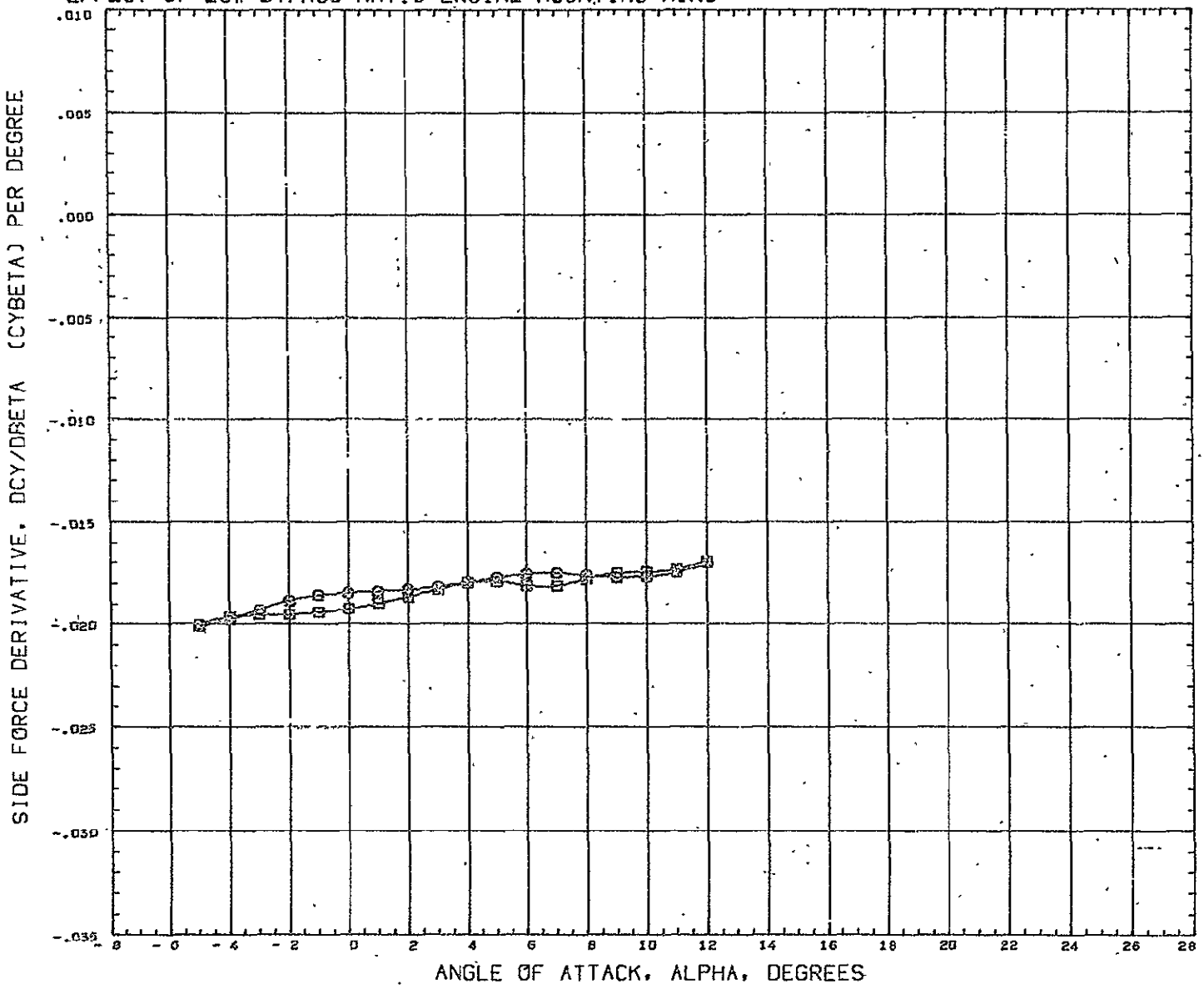
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.7900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINE MOUNTING RING



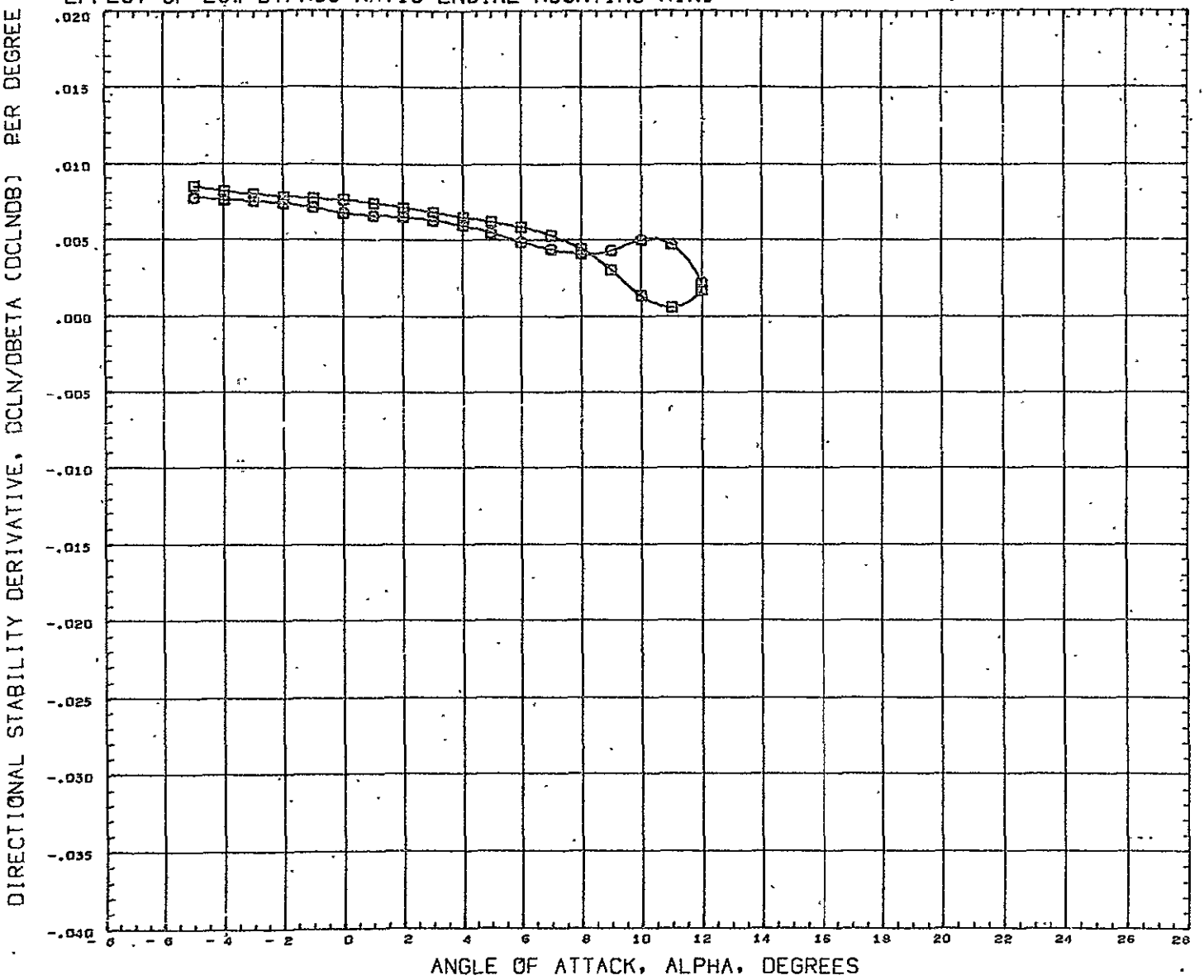
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(PC8064)	□	CVLSWT TEST 580-0 B9W3AT4V4
(PC8032)	□	CVLSWT TEST 580-0 B9W3AT4V4K2

MACH 0.259

PARAMETRIC VALUES			
BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINE MOUNTING RING



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(FC8064)	○	CVLSWT TEST 580-0 B9W3AT4V4
(FC8032)	□	CVLSWT TEST 580-0 B9W3AT4V4K2

PARAMETRIC VALUES

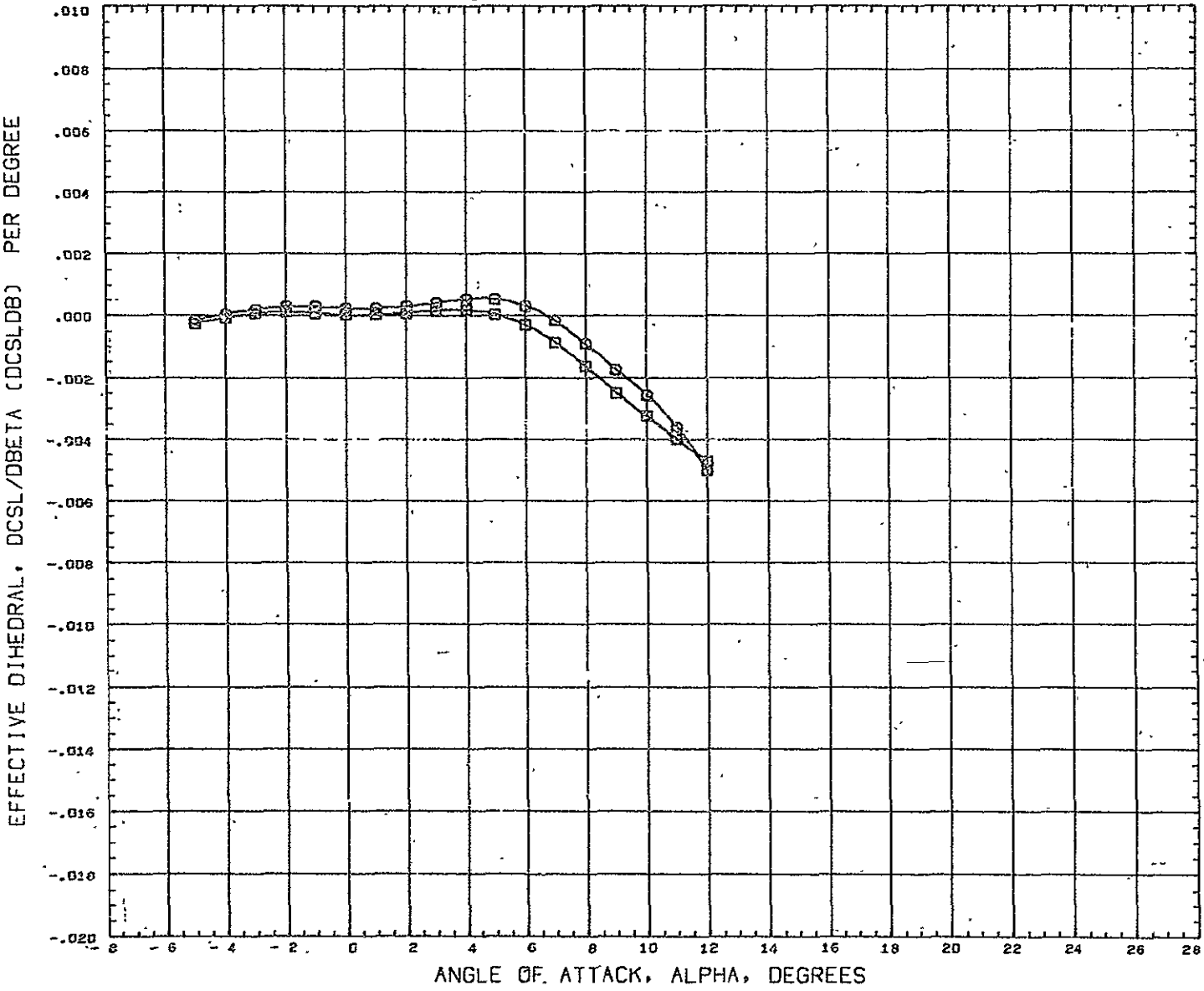
BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	30.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF LOW-BYPASS RATIO ENGINE MOUNTING RING.

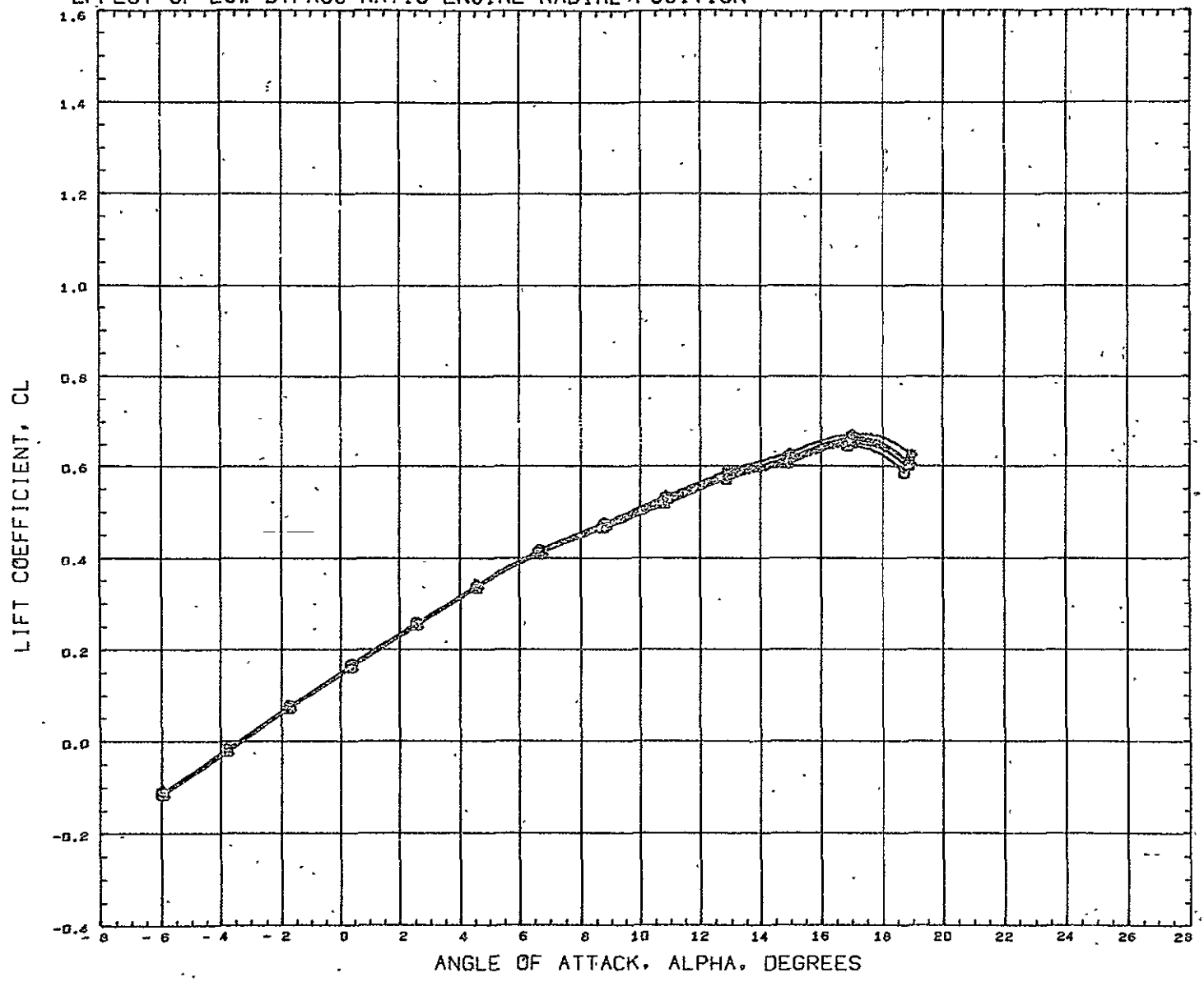


DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(PC8064)	○	CVLSWT TEST 580-0 B9W3AT4V4
(PC8032)	□	CVLSWT TEST 580-0 B9W3AT4V4K2

MACH 0.259

PARAMETRIC VALUES				REFERENCE INFORMATION		
BETA	- 4.000	ELEVTR	0.000	REFS	316.2304	SQ IN
RUDDER	0.000	FLAPS	0.000	REFL	50.1900	IN
SPOILR	0.000			REFB	7.3500	IN
				XMRP	29.3920	IN
				YMRP	0.0000	IN
				ZMRP	0.0000	IN
				SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINE RADIAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8029)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E18
(RC8025)	◇	CVLSWT TEST 580-0 B9W3AT4V4K2E19
(RC8027)	△	CVLSWT TEST 580-0 B9W3AT4V4K2E20
(RC8023)	▷	CVLSWT TEST 580-0 B9W3AT4V4K2E21

MACH 0.259

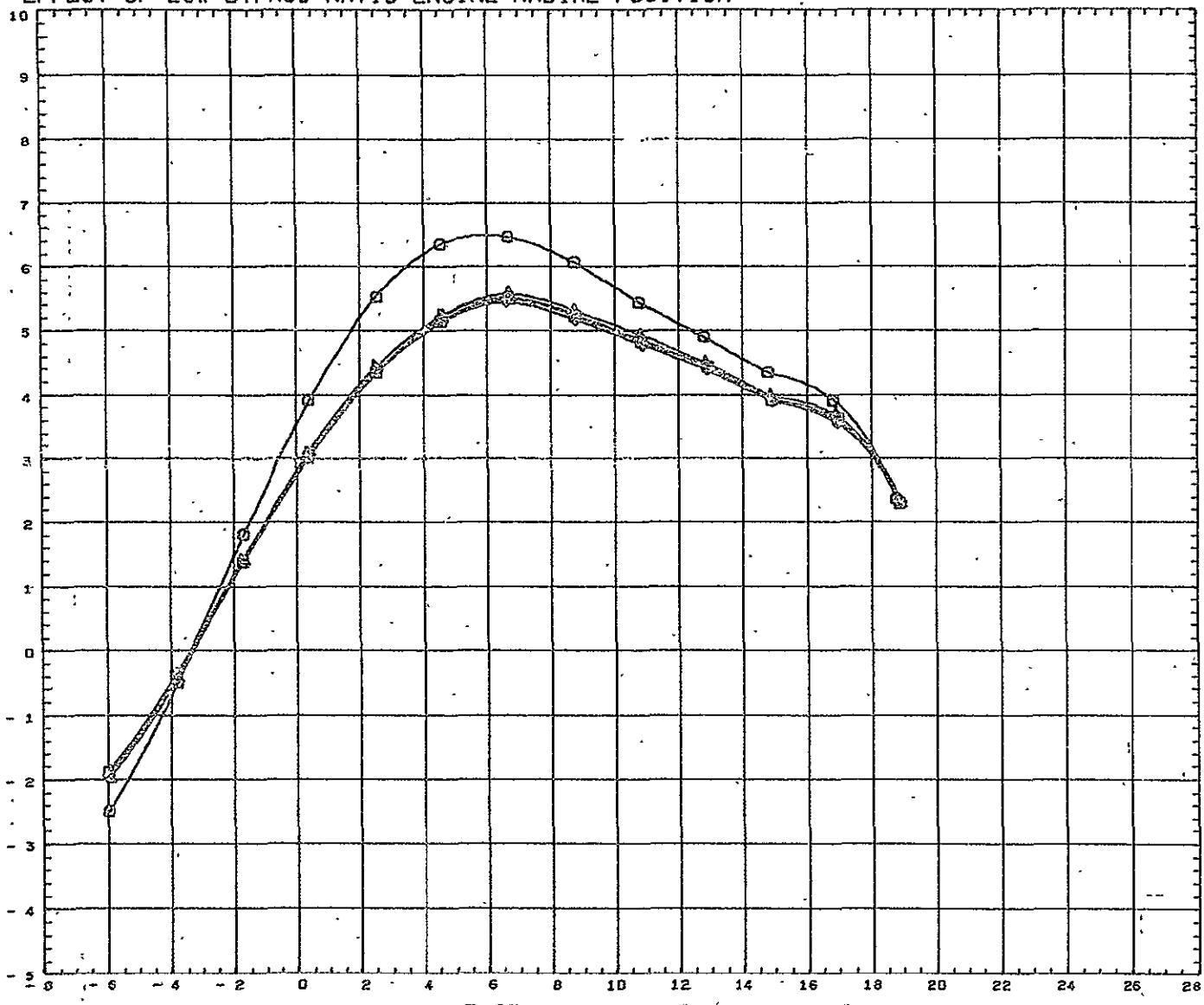
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINE RADIAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8029)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E18
(RC8025)	◇	CVLSWT TEST 580-0 B9W3AT4V4K2E19
(RC8027)	△	CVLSWT TEST 580-0 B9W3AT4V4K2E20
(RC8023)	▷	CVLSWT TEST 580-0 B9W3AT4V4K2E21

MACH 0.259

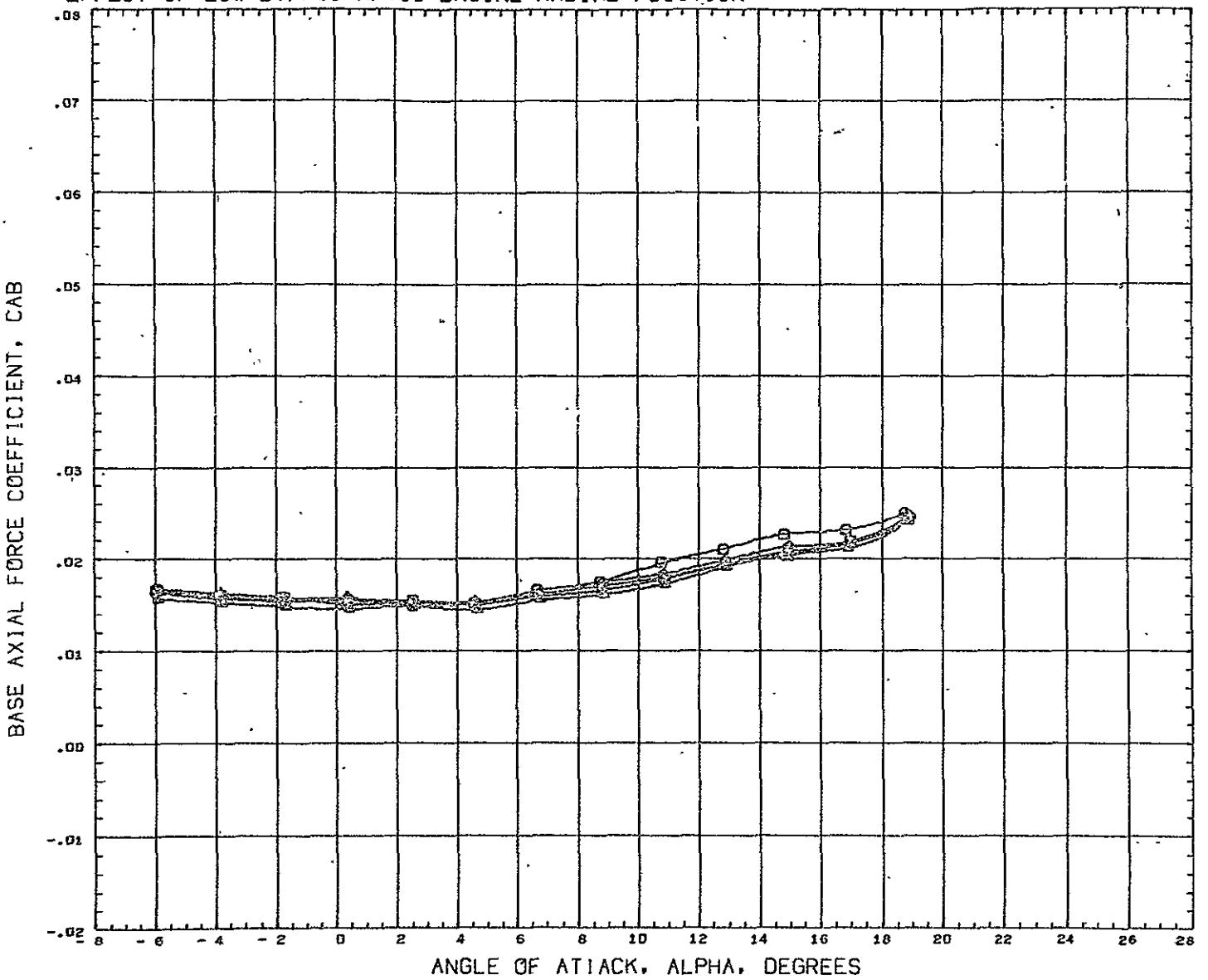
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINE RADIAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8029)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E18
(RC8025)	◇	CVLSWT TEST 580-0 B9W3AT4V4K2E19
(RC8027)	△	CVLSWT TEST 580-0 B9W3AT4V4K2E20
(RC8023)	▷	CVLSWT TEST 580-0 B9W3AT4V4K2E21

MACH 0.259

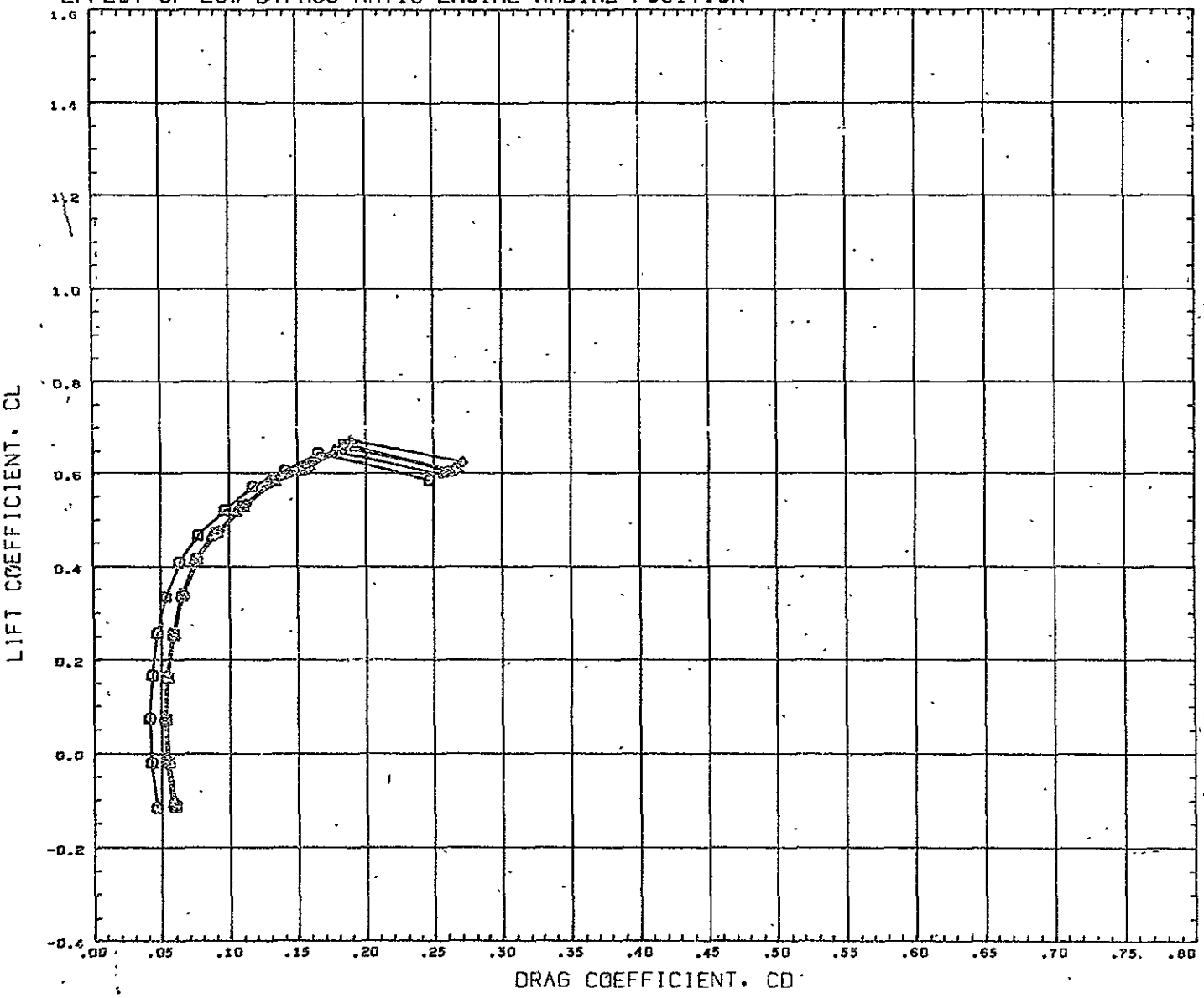
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINE RADIAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8029)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E18
(RC8025)	◇	CVLSWT TEST 580-0 B9W3AT4V4K2E19
(RC8027)	△	CVLSWT TEST 580-0 B9W3AT4V4K2E20
(RC8023)	▷	CVLSWT TEST 580-0 B9W3AT4V4K2E21

MACH 0.259

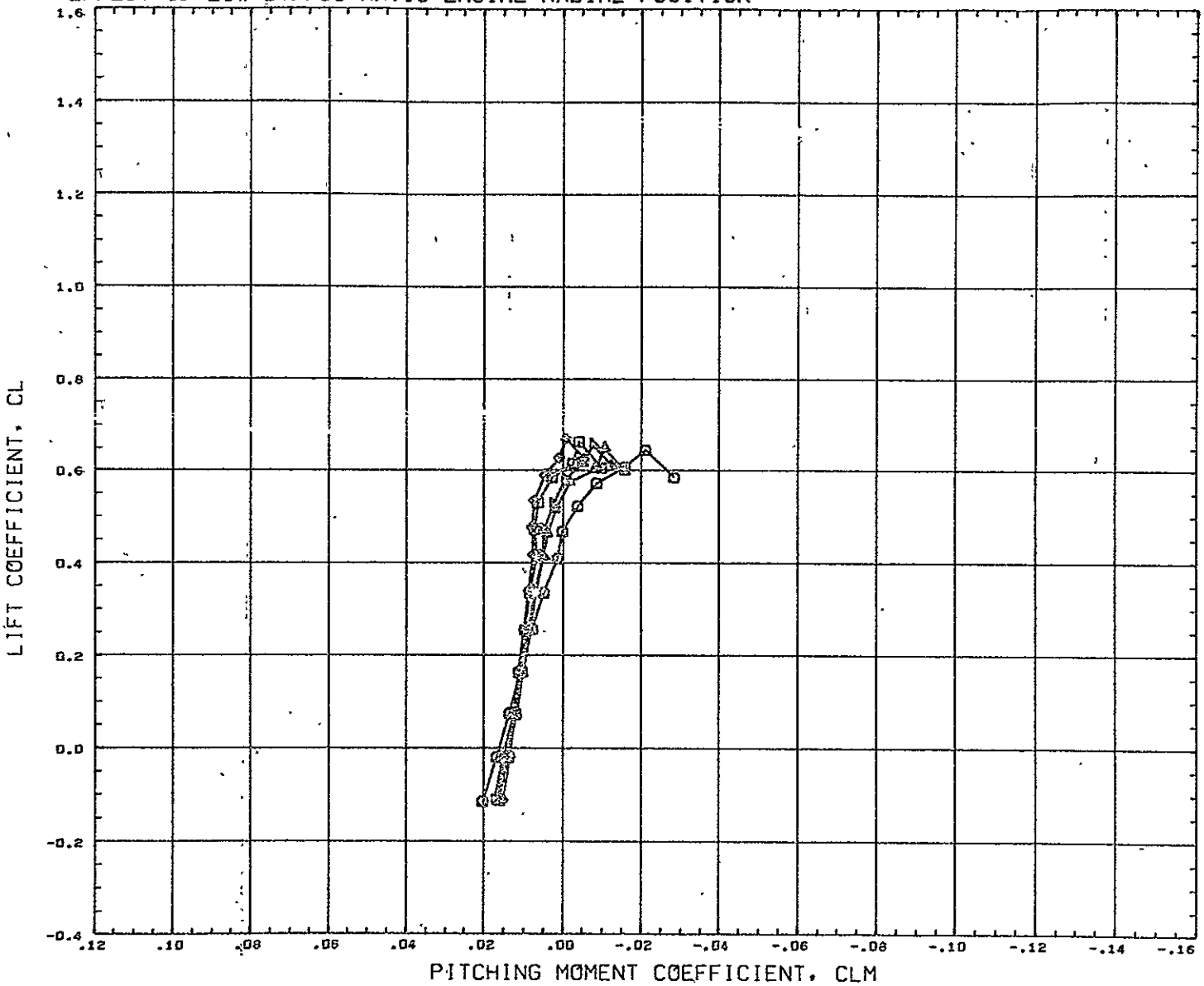
PARAMETRIC VALUES-

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINE RADIAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8002)	○	CVLSWT TEST 580-0 B9W3AT4V4
(RC8029)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E18
(RC8025)	◇	CVLSWT TEST 580-0 B9W3AT4V4K2E19
(RC8027)	△	CVLSWT TEST 580-0 B9W3AT4V4K2E20
(RC8023)	▷	CVLSWT TEST 580-0 B9W3AT4V4K2E21

MACH 0.259

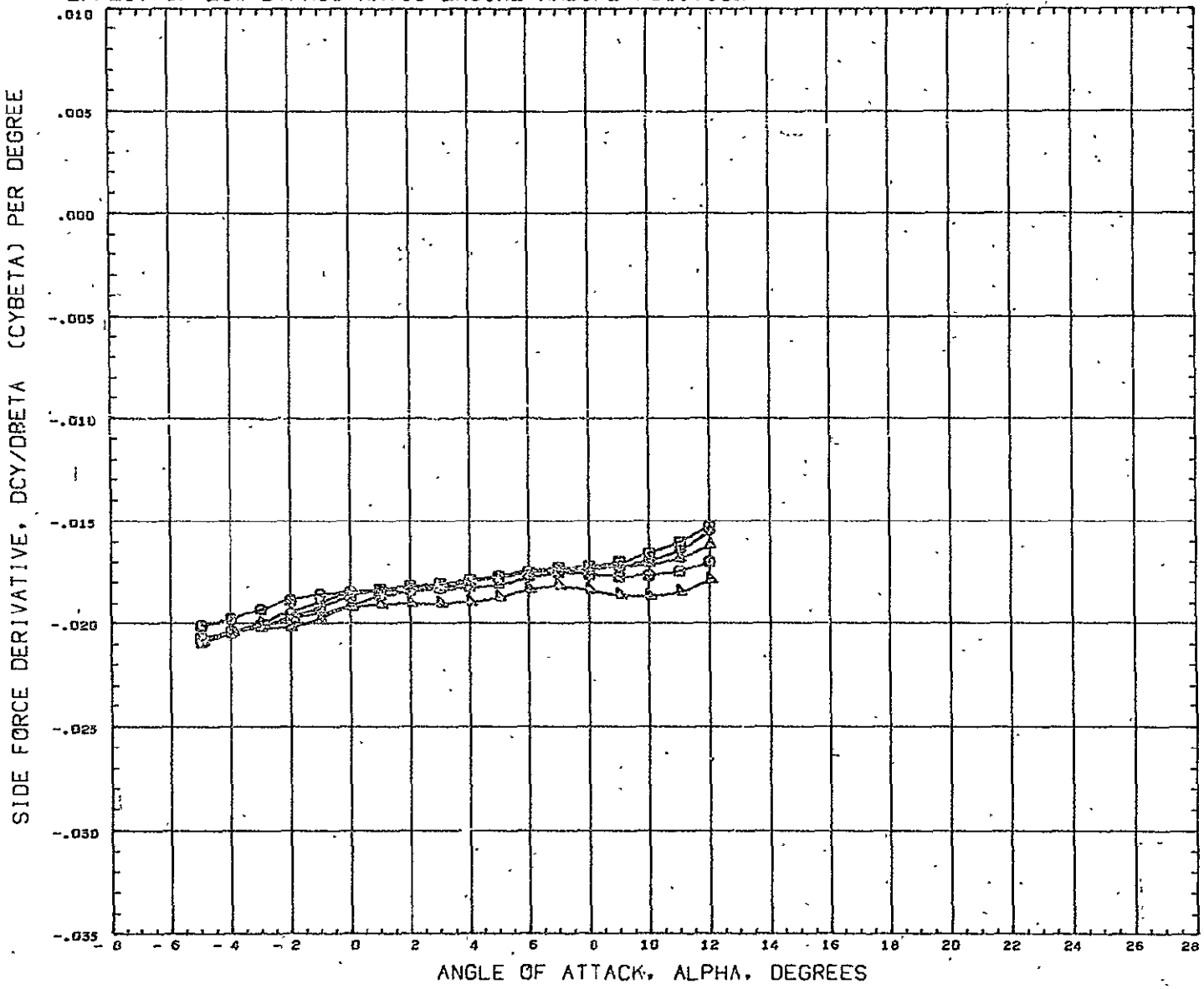
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINE RADIAL POSITION



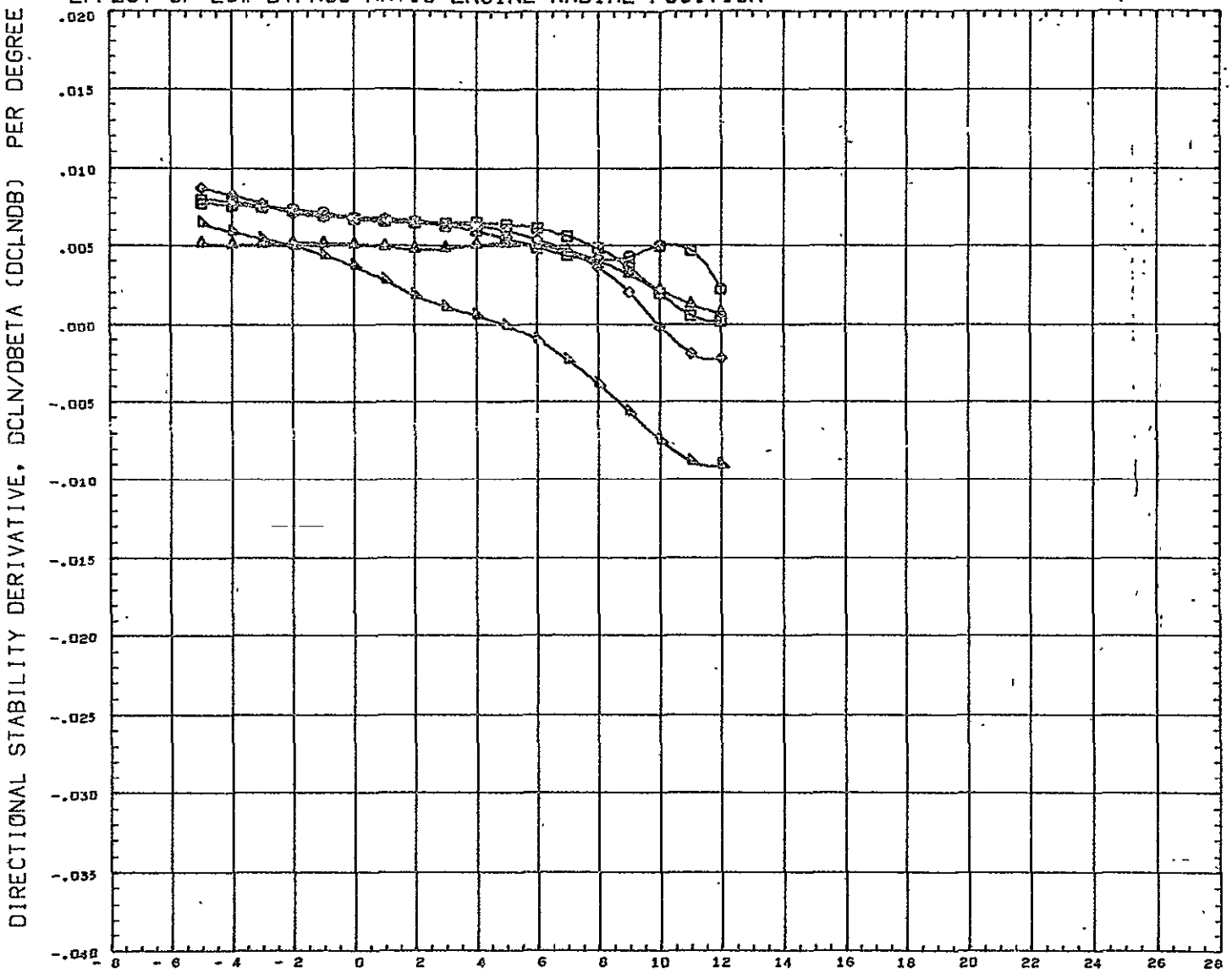
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PC8064)	○	CVLSWT TEST 580-0 B9W3AT4V4
(PC8030)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E18
(PC8026)	◇	CVLSWT TEST 580-0 B9W3AT4V4K2E19
(PC8028)	△	CVLSWT TEST 580-0 B9W3AT4V4K2E20
(PC8024)	▷	CVLSWT TEST 580-0 B9W3AT4V4K2E21

MACH 0.259

PARAMETRIC VALUES			
BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	-29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINE RADIAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FC8064)	○	CVLSWT TEST 580-0 B9W3AT4V4
(FC8030)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E18
(FC8026)	◇	CVLSWT TEST 580-0 B9W3AT4V4K2E19
(FC8028)	△	CVLSWT TEST 580-0 B9W3AT4V4K2E20
(FC8024)	▷	CVLSWT TEST 580-0 B9W3AT4V4K2E21

MACH 0.239

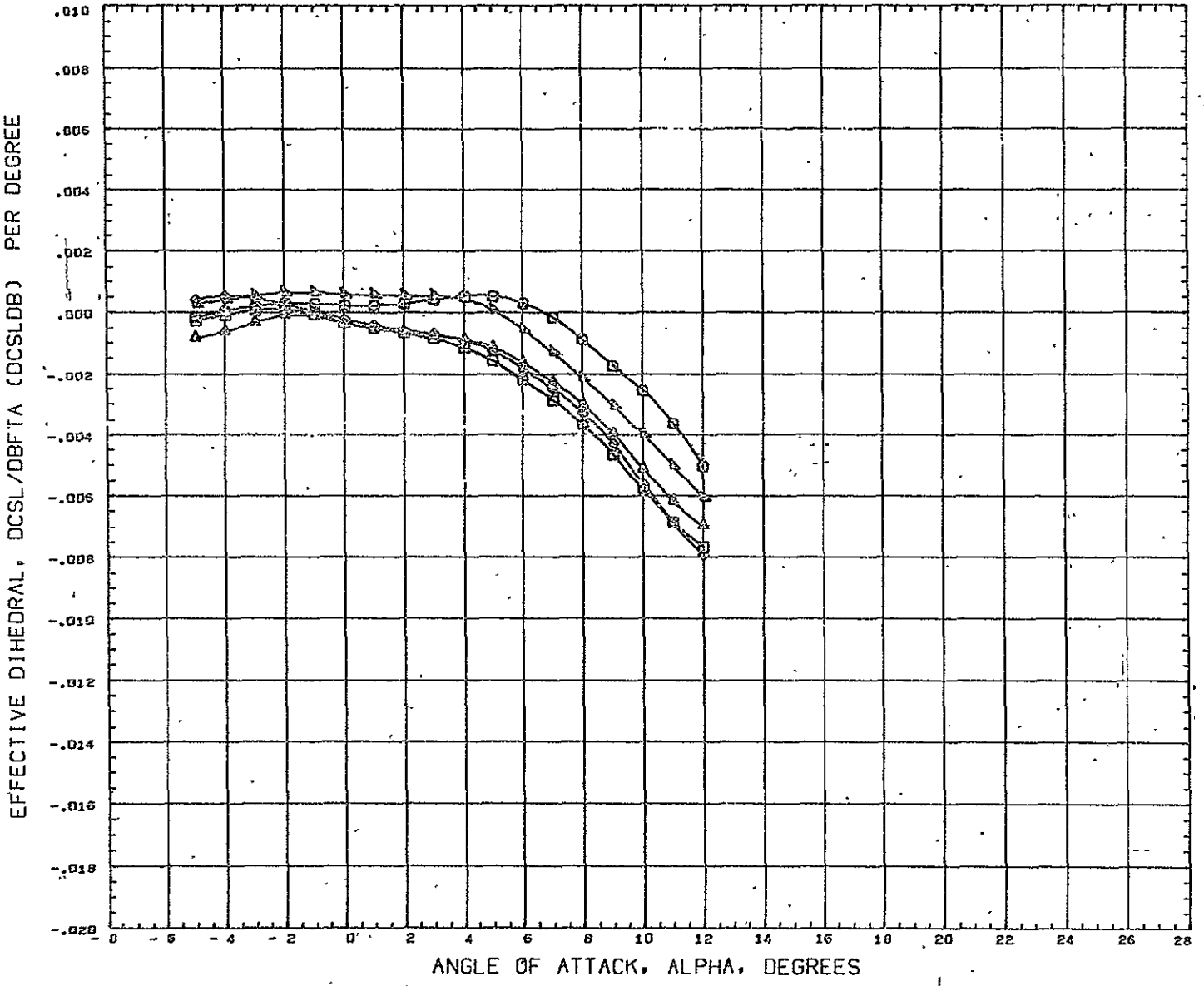
PARAMETRIC VALUES

BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINE RADIAL POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PC8054)	□	CVLSWT TEST 580-0 B9W3AT4V4
(PC8030)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E18
(PC8026)	◇	CVLSWT TEST 580-0 B9W3AT4V4K2E19
(PC8028)	△	CVLSWT TEST 580-0 B9W3AT4V4K2E20
(PC8024)	▷	CVLSWT TEST 580-0 B9W3AT4V4K2E21

MACH 0.259

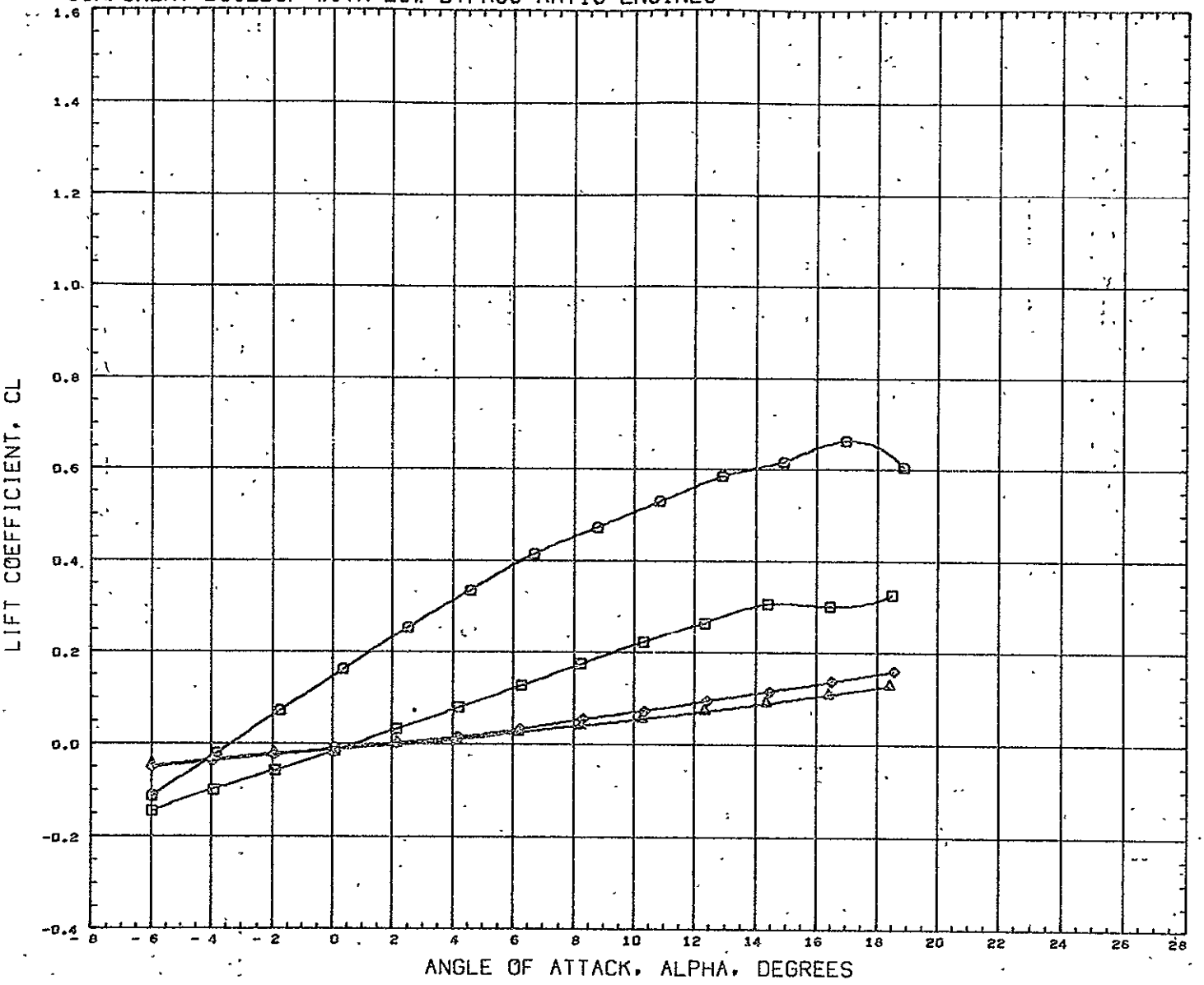
PARAMETRIC VALUES

BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR.	0.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES



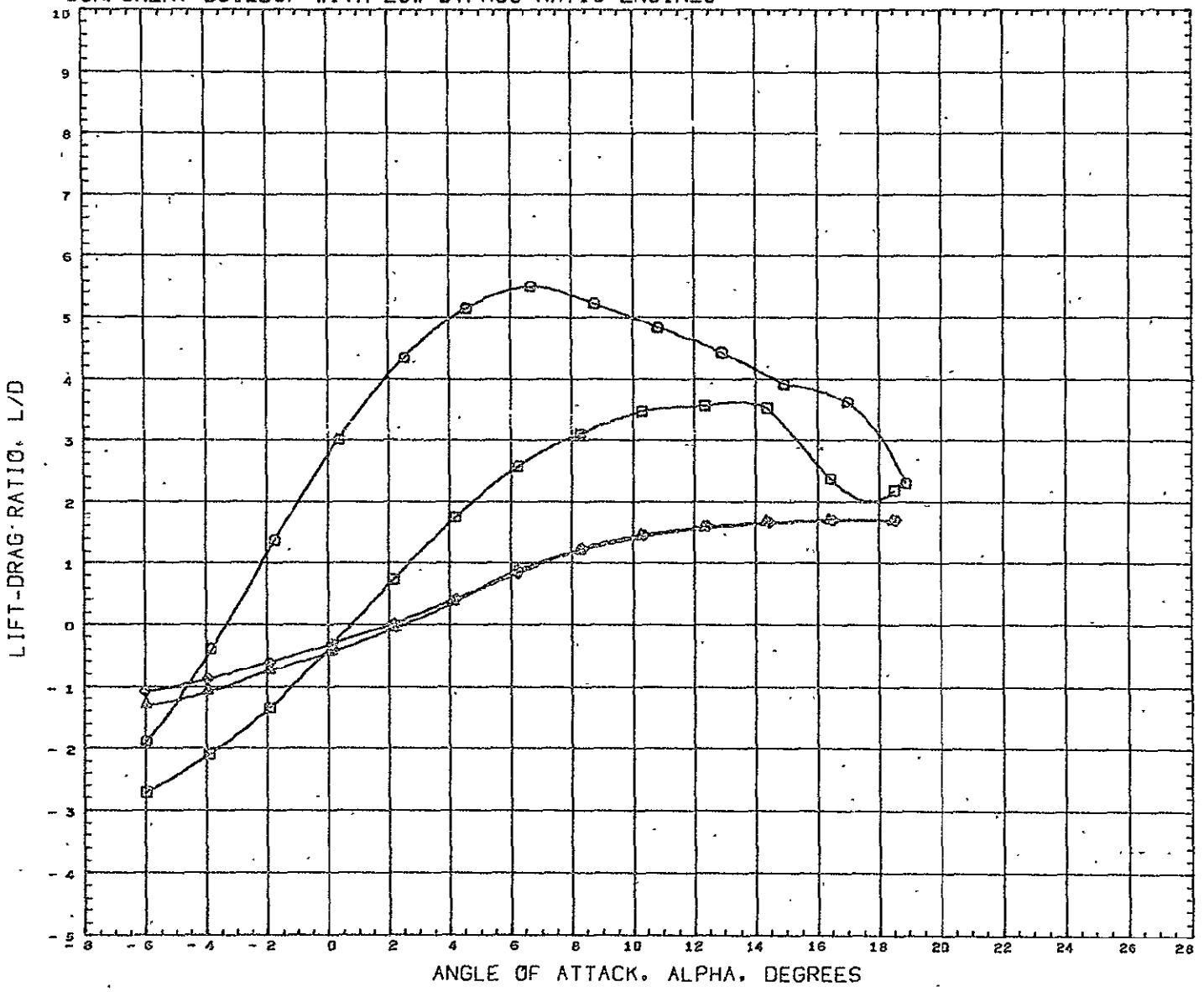
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8029)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E18
(RC8059)	□	CVLSWT TEST 580-0 B9T4V4K2E18
(RC8066)	◇	CVLSWT TEST 580-0 B9K2E18
(RC8050)	△	CVLSWT TEST 580-0 B9

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES



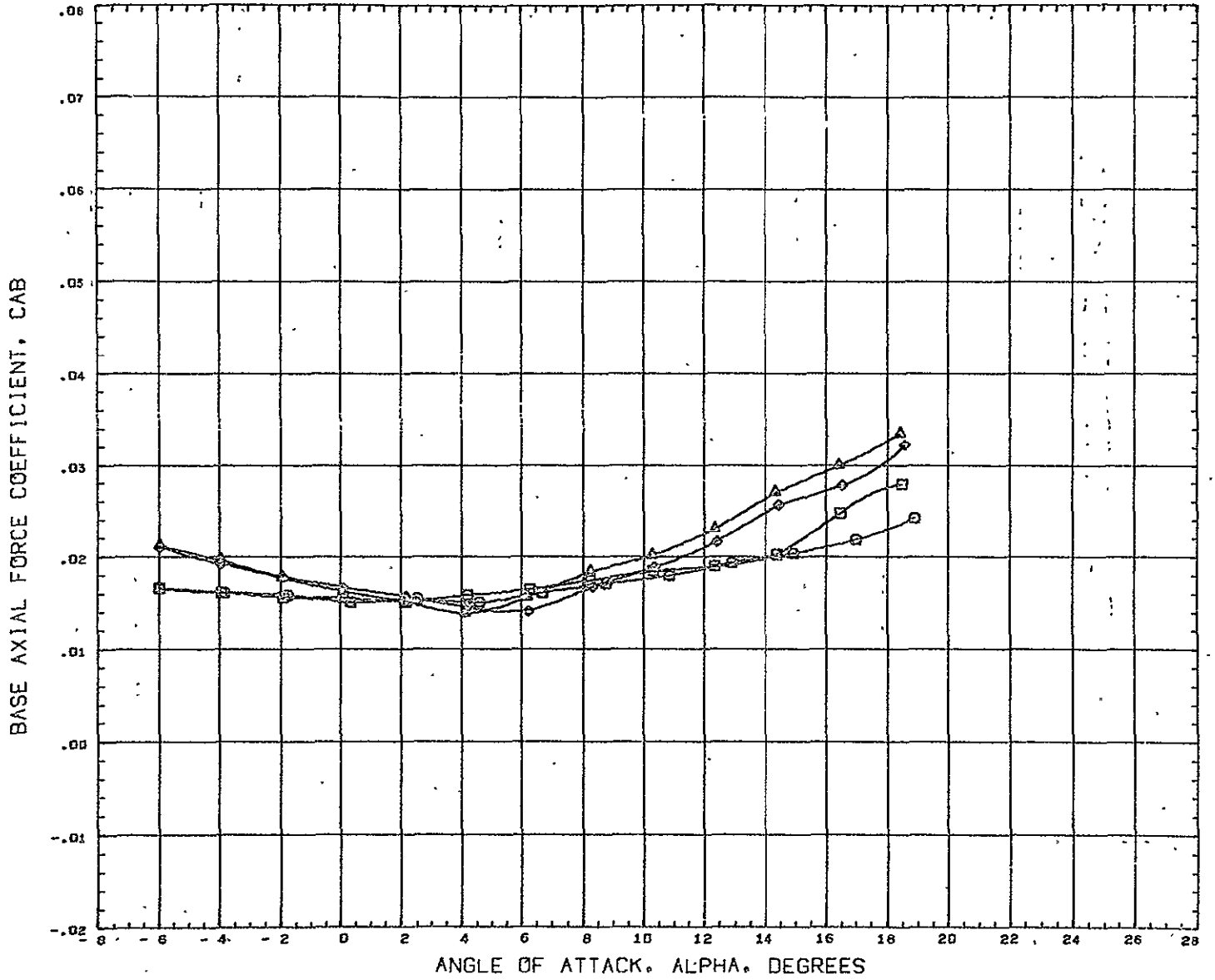
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8029)	○	CVLSWT TEST 580-0 B9W3AT4V4K2E18
(RC8059)	□	CVLSWT TEST 580-0 B9T4V4K2E18
(RC8066)	◇	CVLSWT TEST 580-0 B9K2E18
(RC8050)	△	CVLSWT TEST 580-0 B9

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES



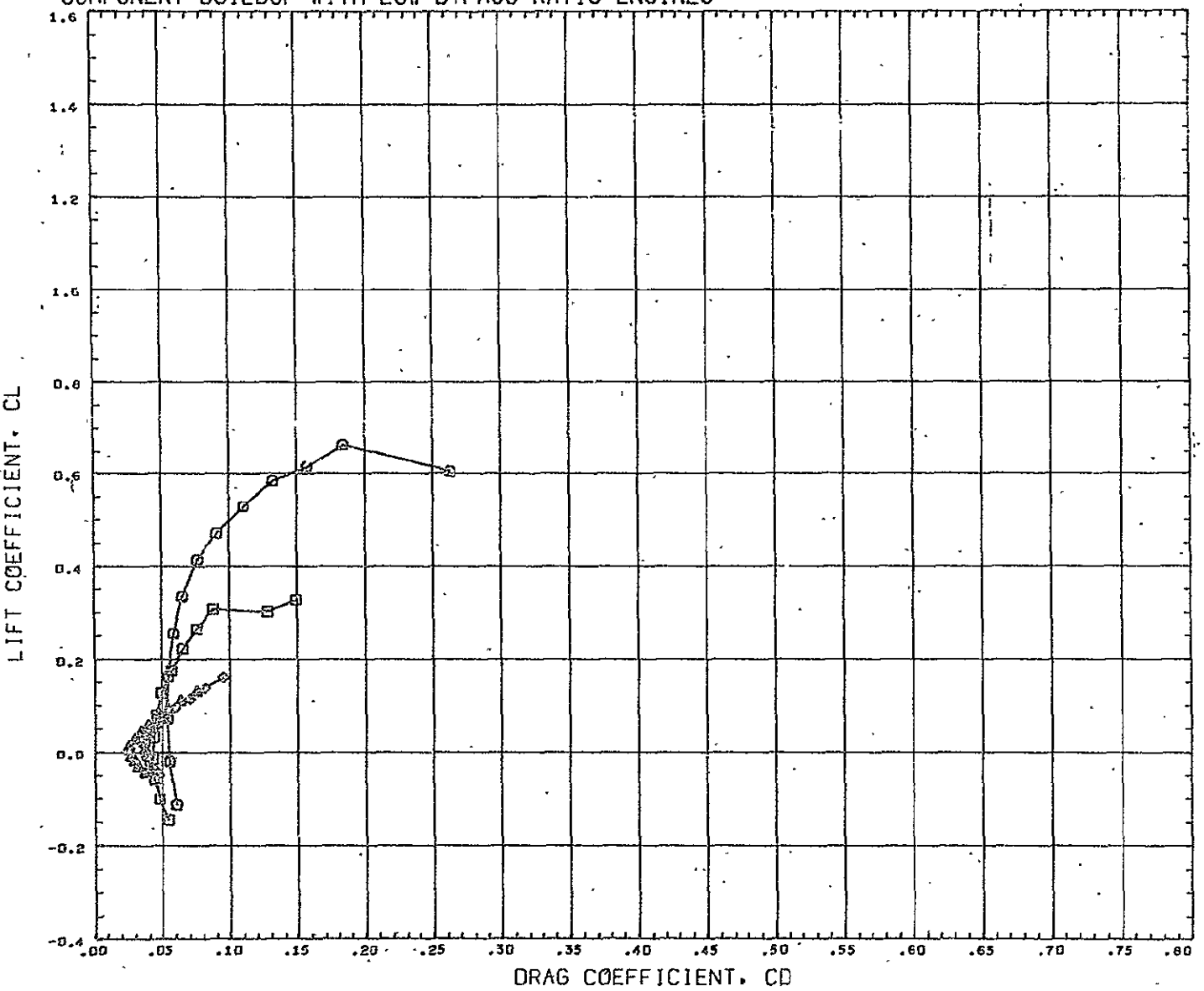
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8029)	○	CVLSWT TEST 580-0 B9W3AT4V4K2E18
(RC8069)	□	CVLSWT TEST 580-0 B9T4V4K2E18
(RC8066)	◇	CVLSWT TEST 580-0 B9K2E18
(RC8050)	△	CVLSWT TEST 580-0 B9

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8029)	○	CVLSWT TEST 580-D B9W3AT4V4K2E18
(RC8069)	□	CVLSWT TEST 580-D B9T4V4K2E18
(RC8066)	◇	CVLSWT TEST 580-D B9K2E18
(RC8050)	△	CVLSWT TEST 580-D B9

MACH 0.259

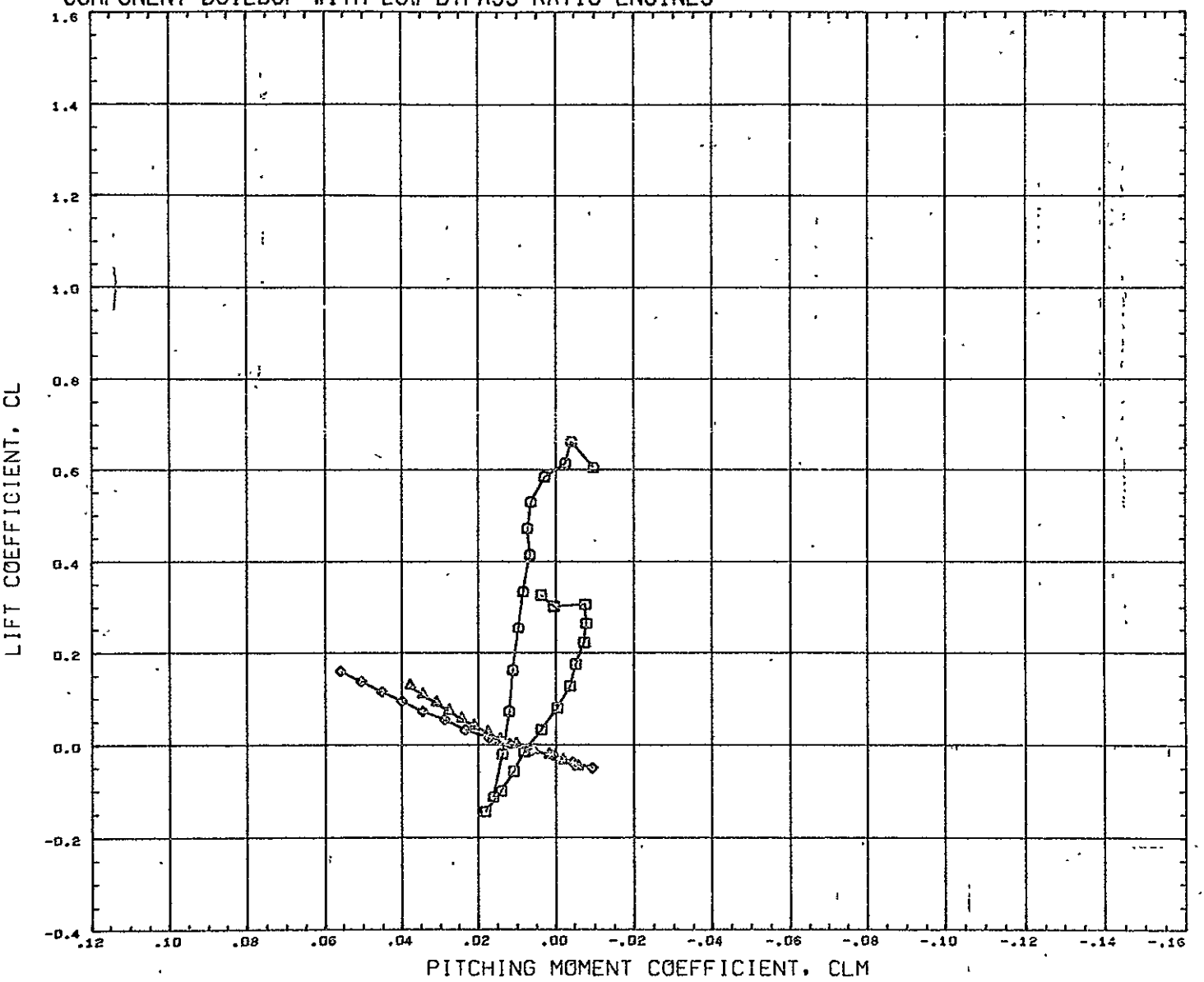
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES



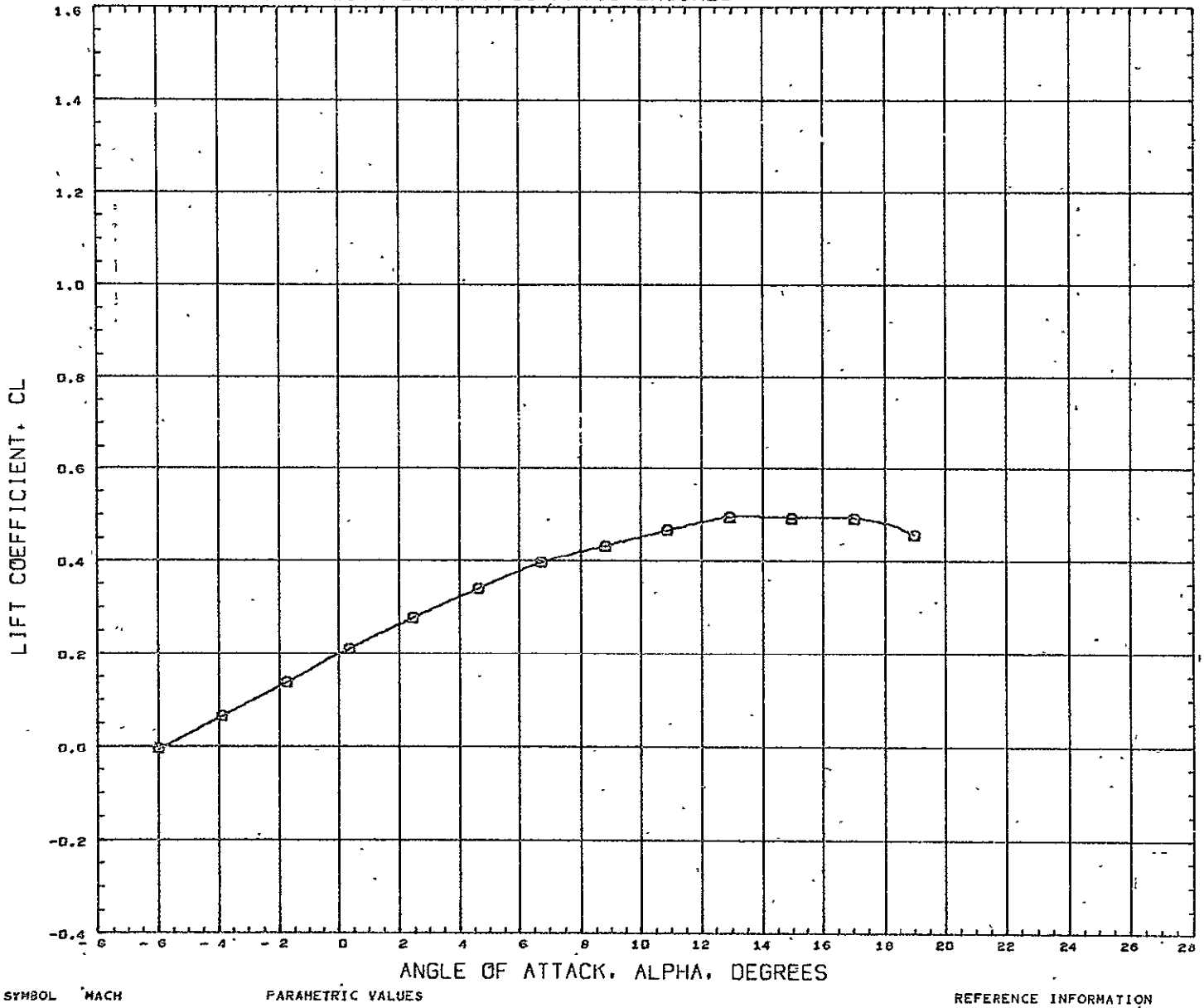
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8029)	○	CVLSWT TEST 580-D B9W3AT4V4K2E18
(RC8069)	□	CVLSWT TEST 580-D B9T4V4K2E18
(RC8066)	◇	CVLSWT TEST 580-D B9K2E18
(RC8050)	△	CVLSWT TEST 580-D B9

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SFOILR	0.000	ENGINE	18.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

BODY AND WING DATA WITH LOW-BYPASS RATIO ENGINES

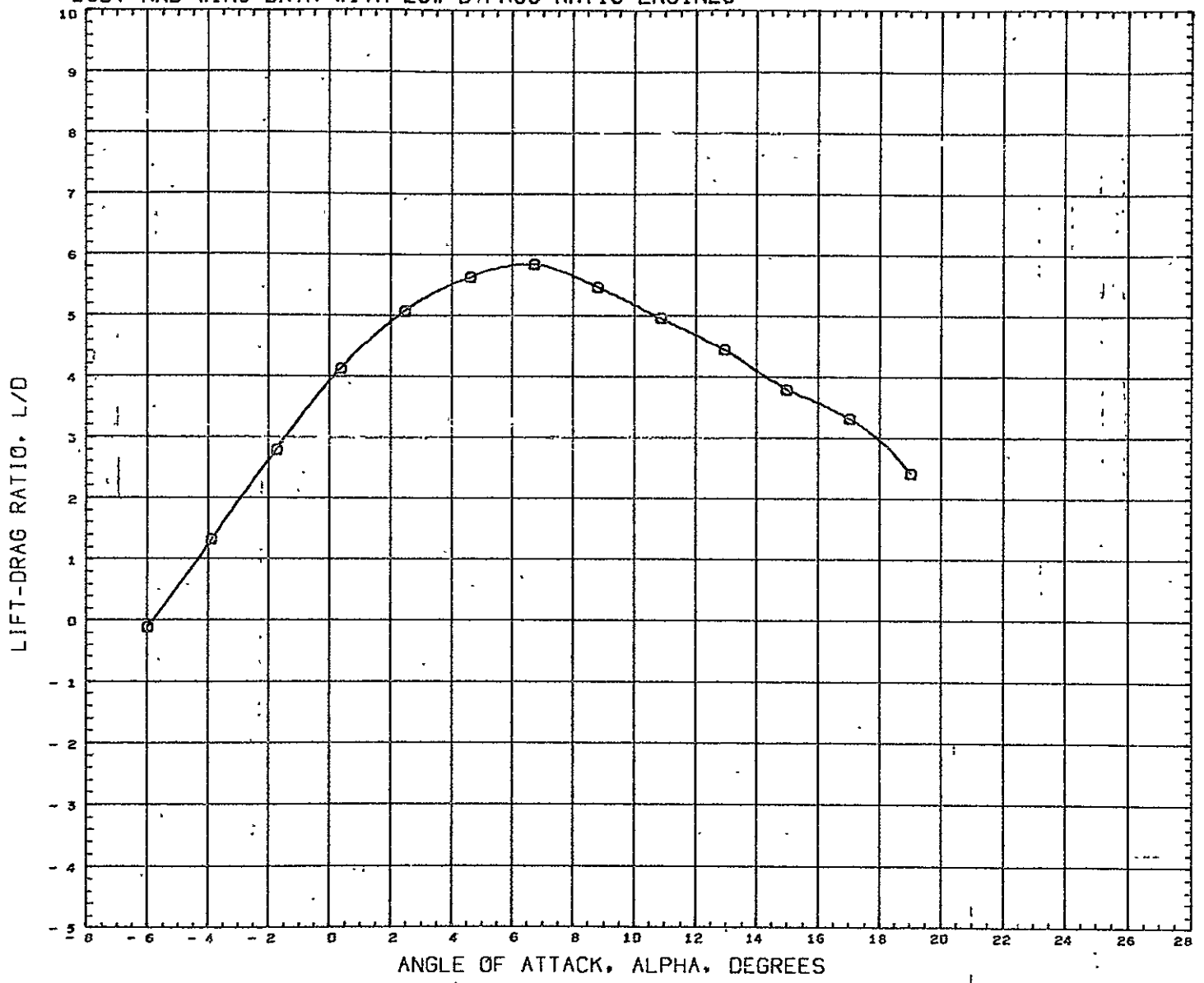


SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR IN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

BØDY AND WING DATA WITH LØW-BYPASS RATIØ ENGINES



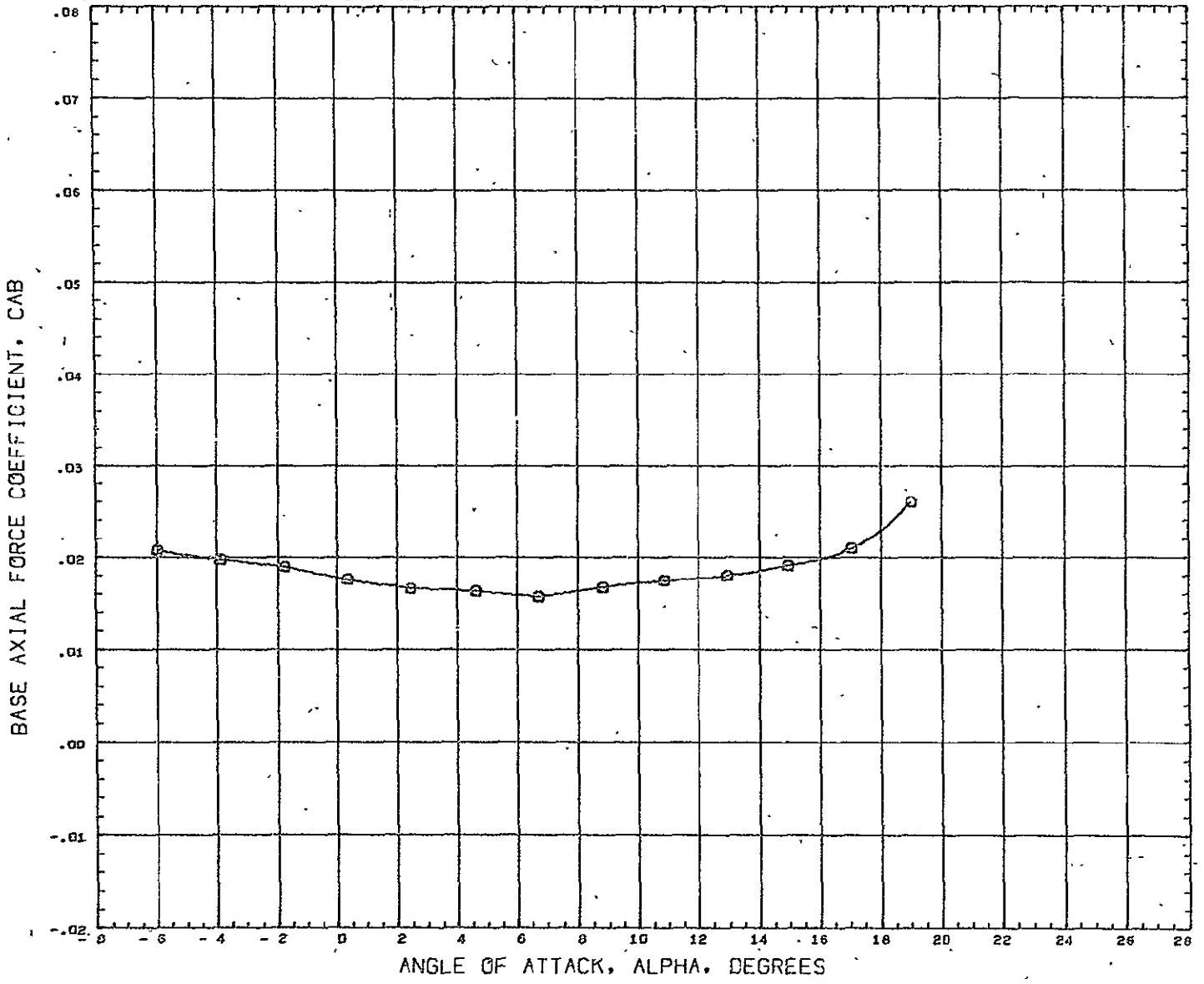
SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

BODY AND WING DATA WITH LOW-BYPASS RATIO ENGINES

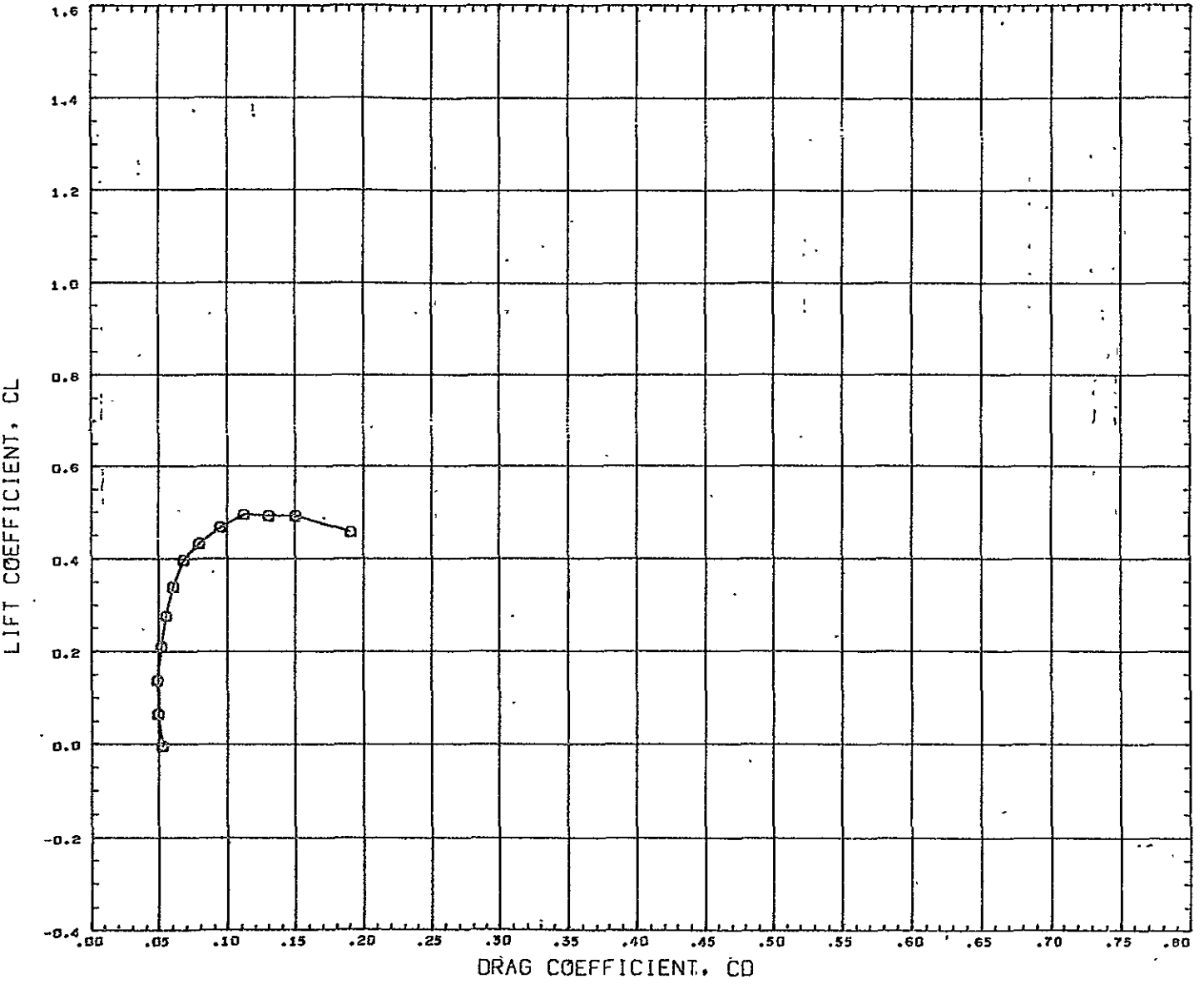


SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN/D-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

BODY AND WING DATA WITH LOW-BYPASS RATIO ENGINES

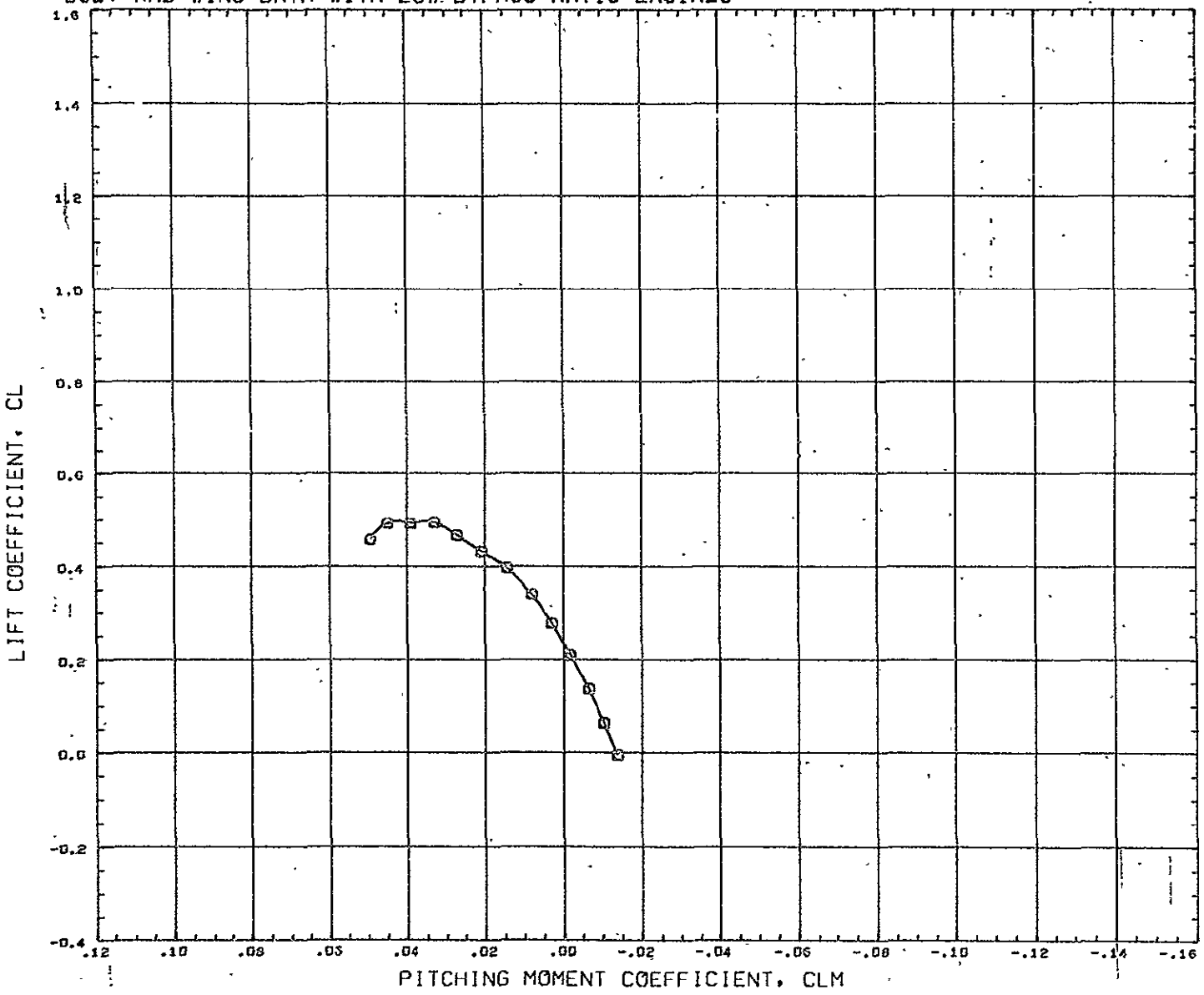


SYMBOL	MACH	PARAMETRIC VALUES			
□	0.259	BETA	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

BODY AND WING DATA WITH LOW-BYPASS RATIO ENGINES

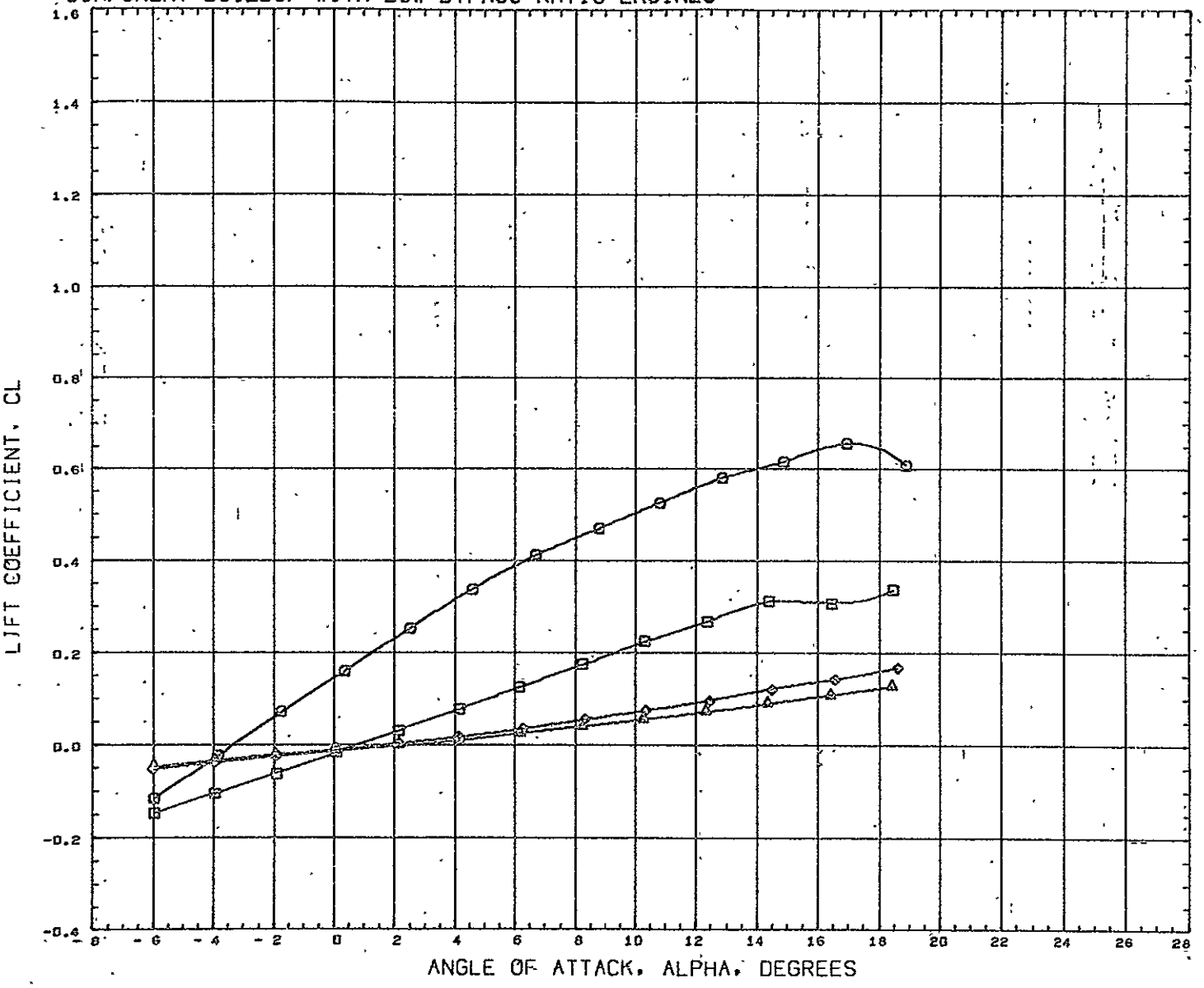


SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES



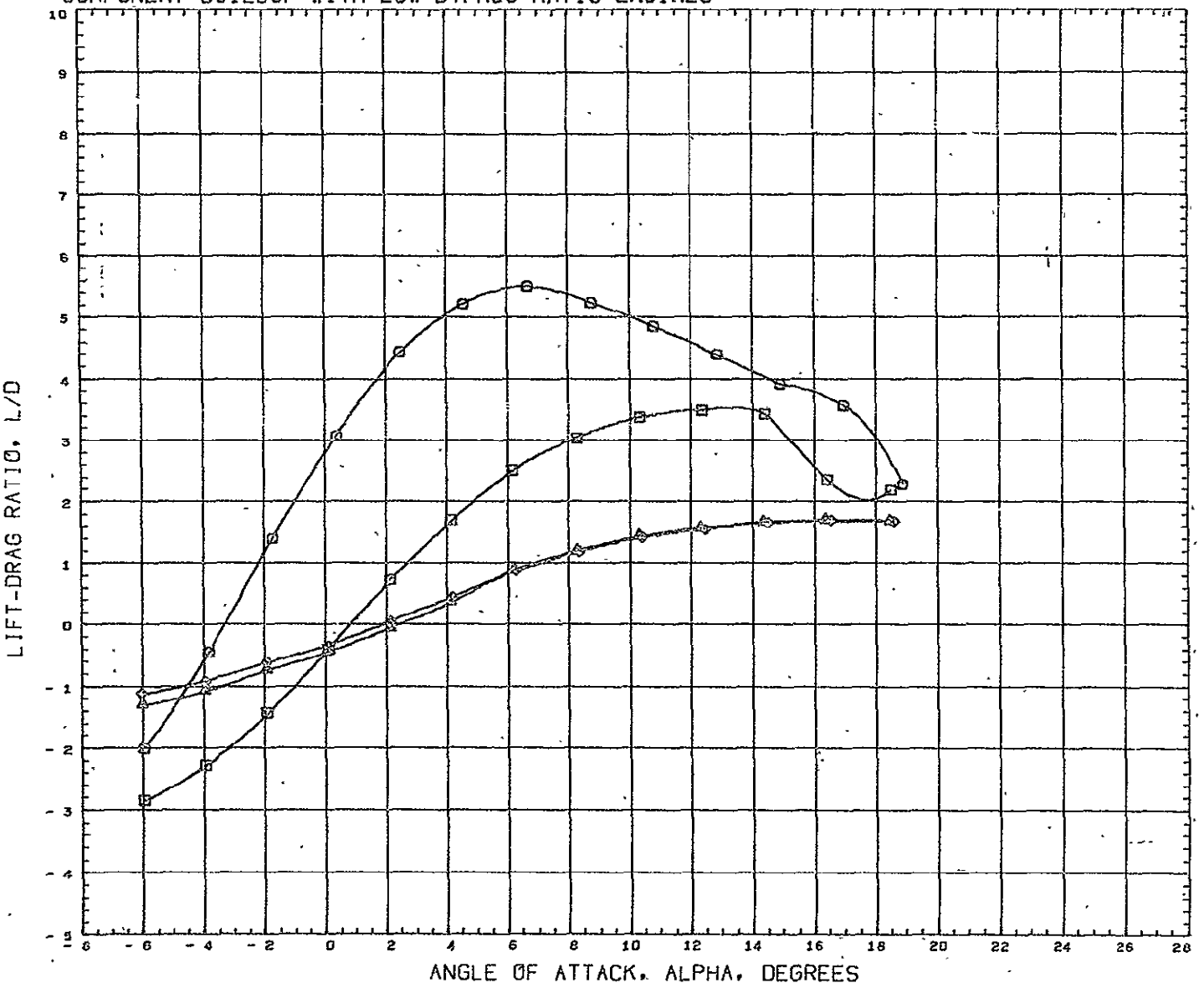
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8023)	○	CVLSWT TEST 580-D B9W3AT4V4K2E21
(RC8066)	□	CVLSWT TEST 580-D B9T4V4K2E21
(RC8067)	◇	CVLSWT TEST 580-D B9K2E21
(RC8050)	△	CVLSWT TEST 580-D B9

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES



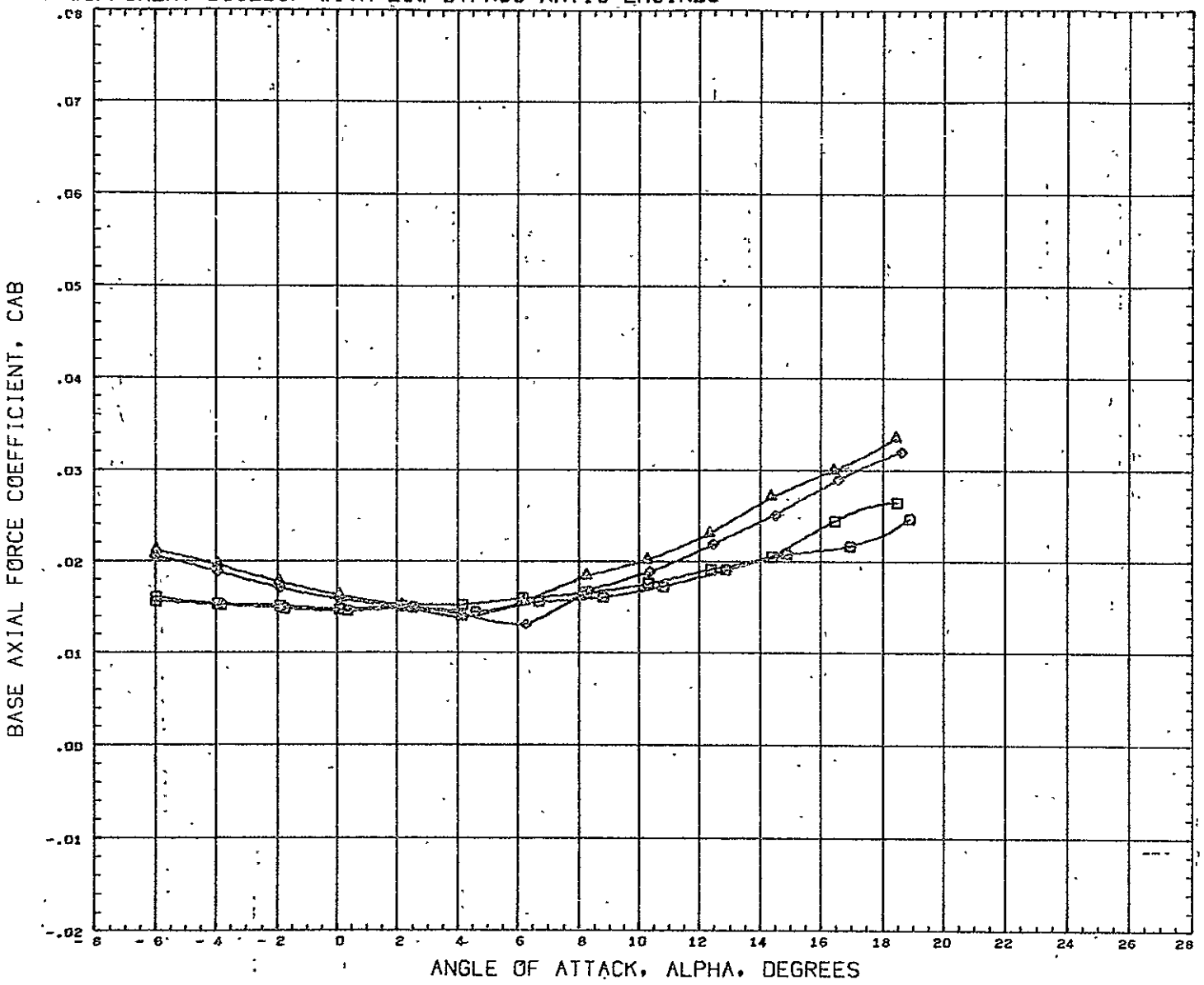
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8023)	○	CVLSWT TEST 580-0 B9W3AT4V4K2E21
(RC8068)	□	CVLSWT TEST 580-0 B9T4V4K2E21
(RC8067)	◇	CVLSWT TEST 580-0 B9K2E21
(RC8050)	△	CVLSWT TEST 580-0 B9

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES



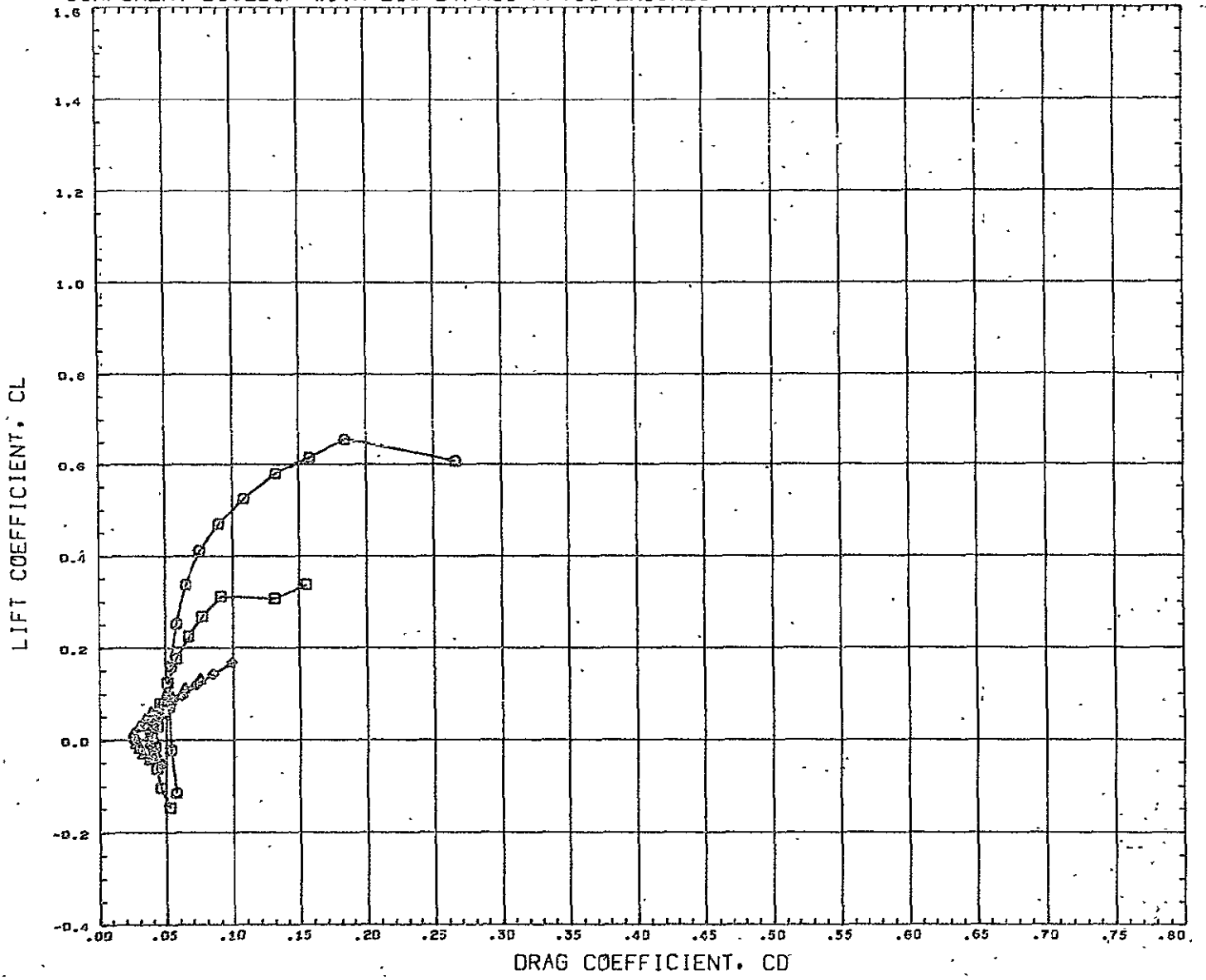
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8023)	○	CVLSWT TEST 580-0 B9W3AT4V4K2E21
(RC8068)	□	CVLSWT TEST 580-0 B9T4V4K2E21
(RC8067)	◇	CVLSWT TEST 580-0 B9K2E21
(RC8050)	△	CVLSWT TEST 580-0 B9

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES



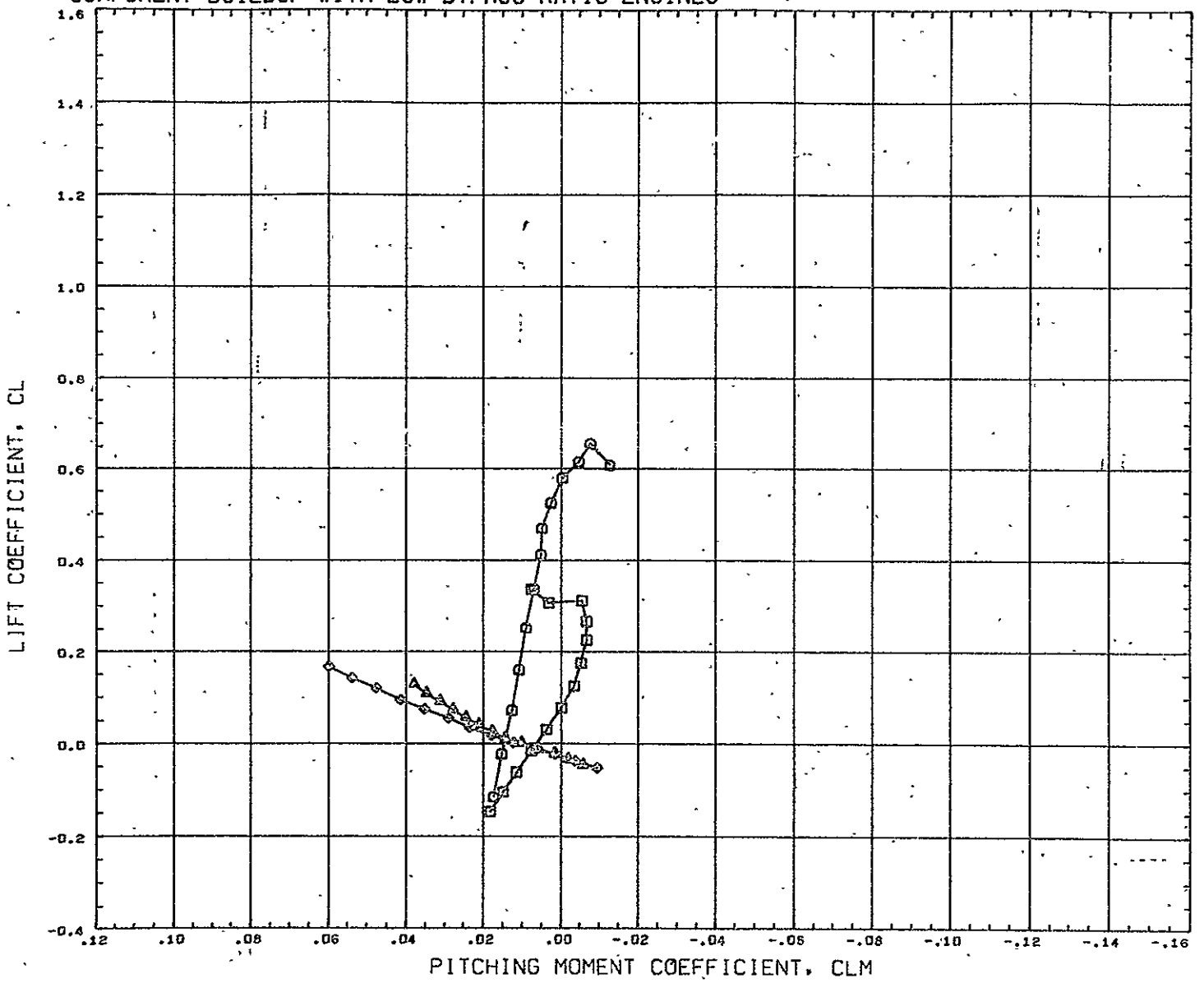
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8023)	○	CVLSWT TEST 580-0 B9W3AT4V4K2E21
(RC8068)	□	CVLSWT TEST 580-0 B9T4V4K2E21
(RC8067)	◇	CVLSWT TEST 580-0 B9K2E21
(RC8050)	△	CVLSWT TEST 580-0 B9

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8023)	○	CVLSWT TEST 580-D B9W3AT4V4K2E21
(RC8068)	□	CVLSWT TEST 580-D B9T4V4K2E21
(RC8067)	◇	CVLSWT TEST 580-D B9K2E21
(RC8050)	△	CVLSWT TEST 580-D B9

MACH 0.259

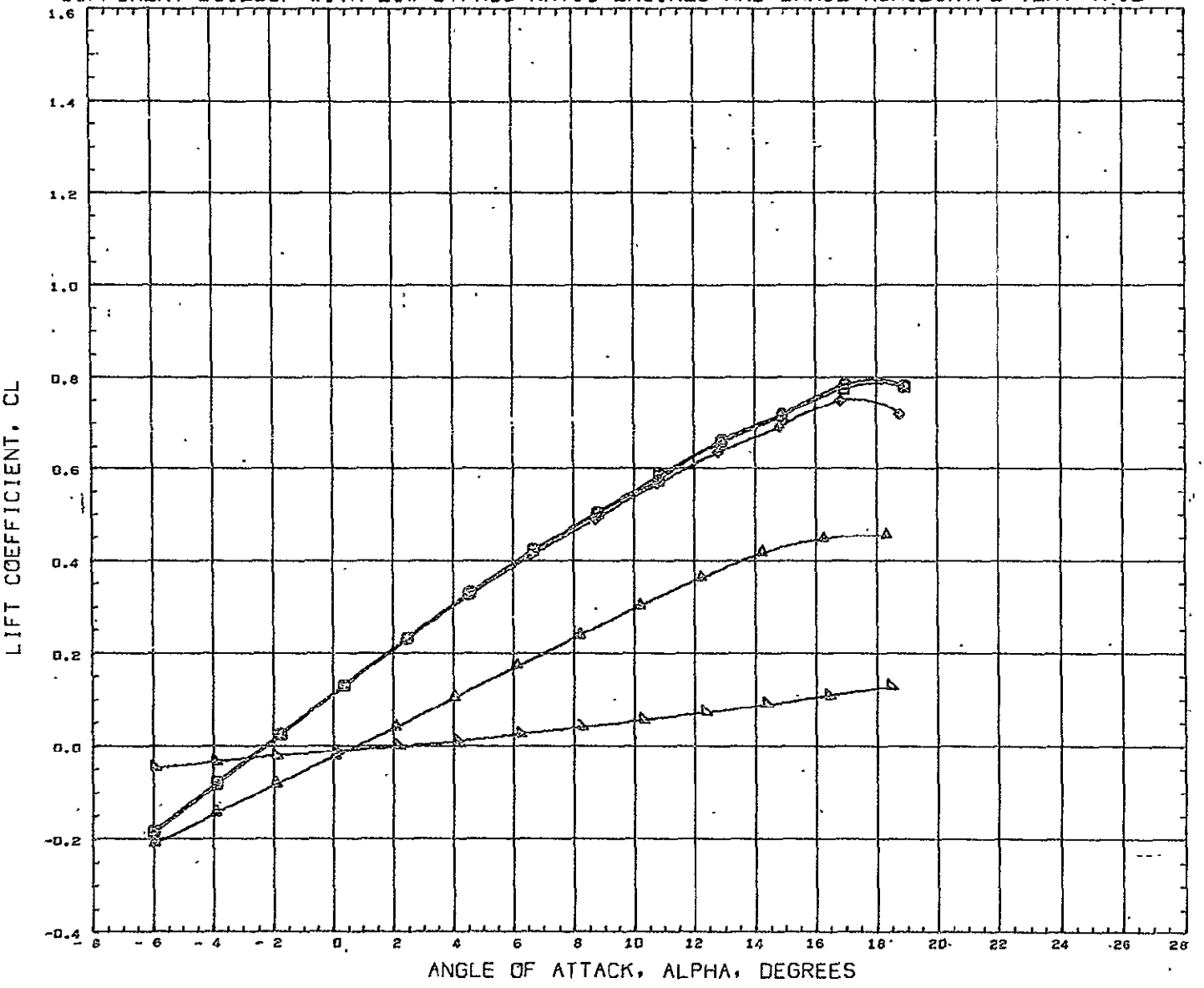
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZONTAL-VERT TAIL



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8077)	□	CVLSWT TEST 580-D B9W3AT5V5K2E21
(RC8082)	□	CVLSWT TEST 580-D B9W3AT5V5K2E18
(RC8092)	◇	CVLSWT TEST 580-D B9W3AT5V5
(RC8080)	△	CVLSWT TEST 580-D B9T5V5
(RC8050)	▷	CVLSWT TEST 580-D B9

MACH 0.259

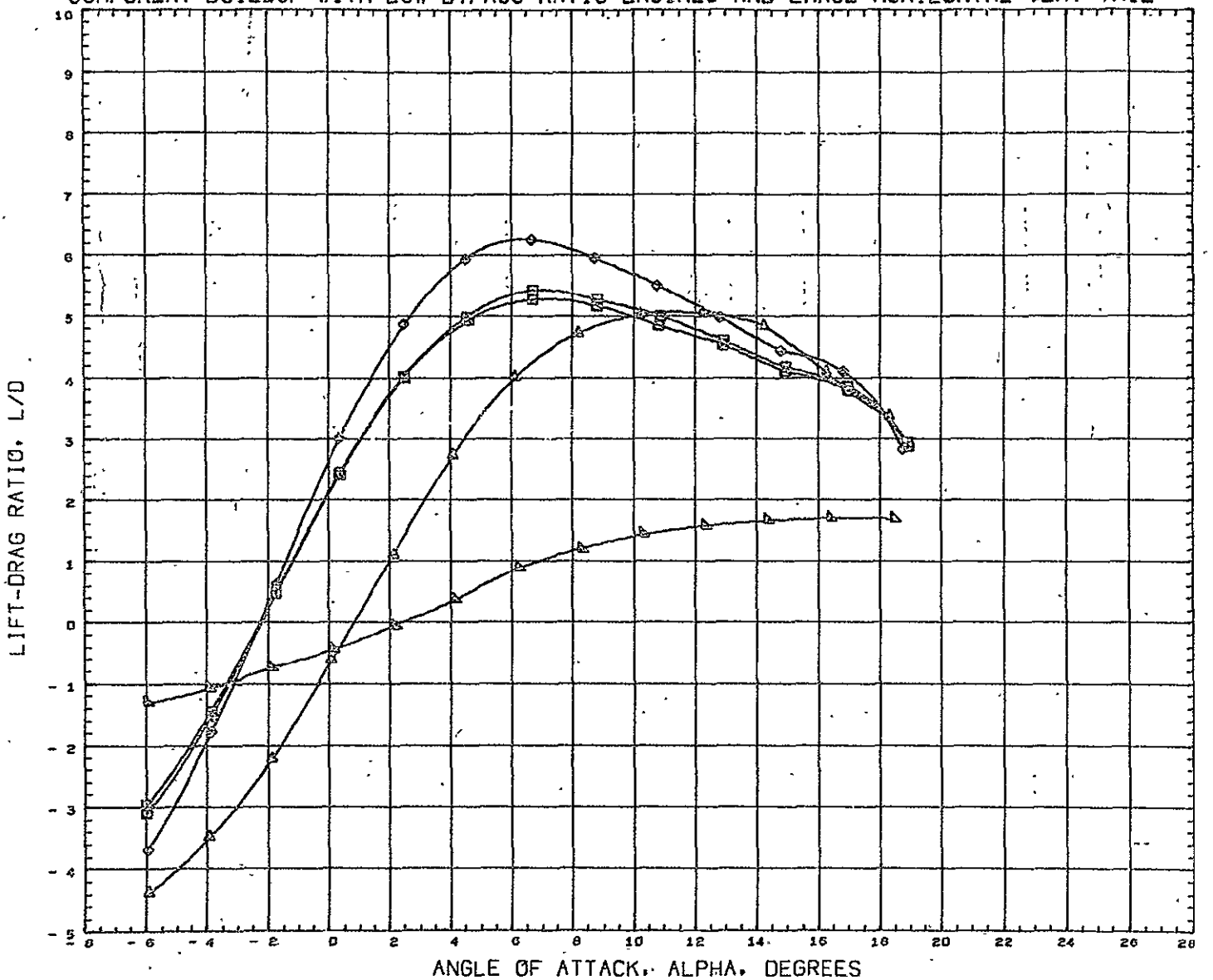
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZONTAL-VERT TAIL



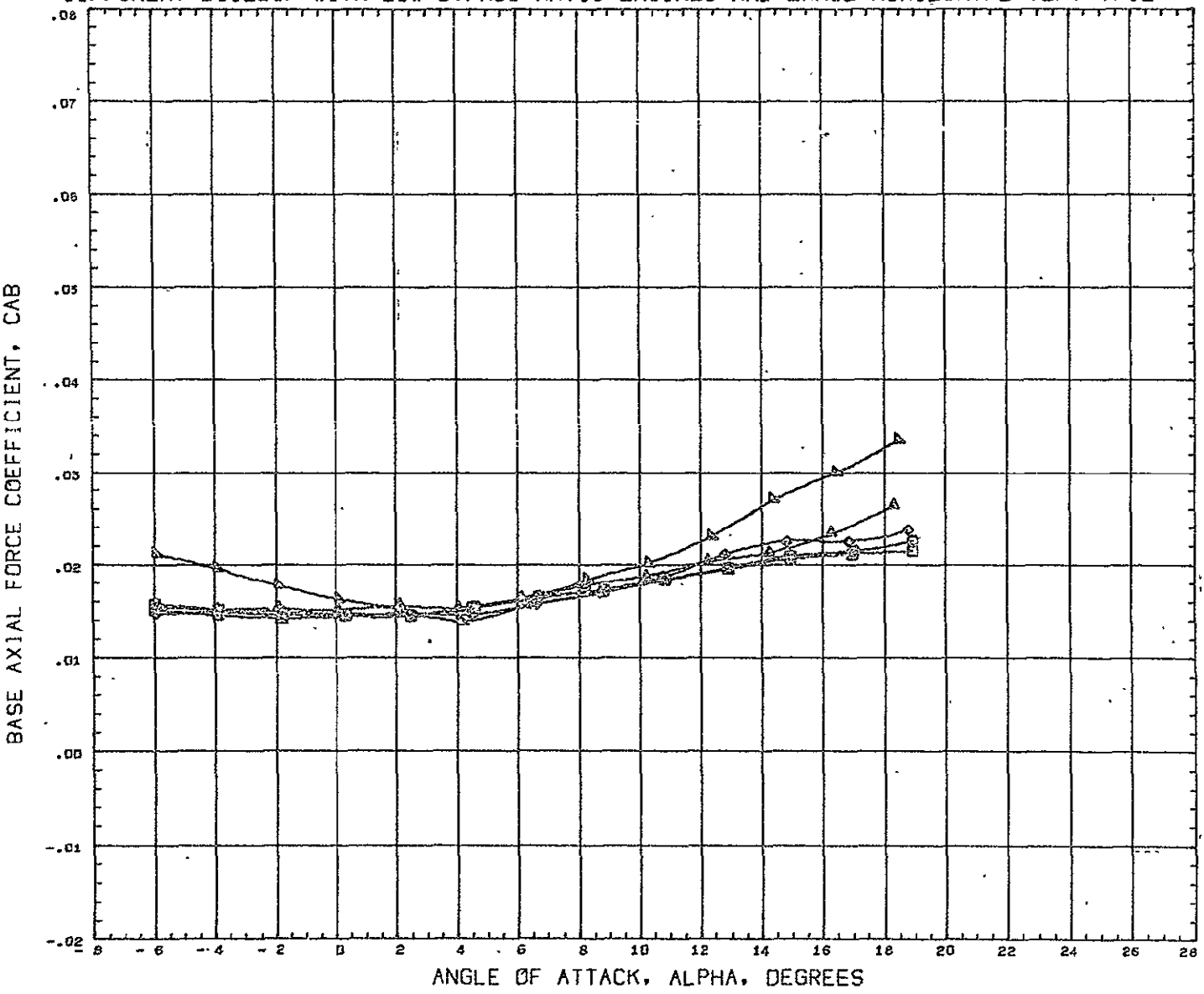
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8077)	○	CVLSWT TEST 580-0 B9W3AT5V5K2E21
(RC8082)	□	CVLSWT TEST 580-0 B9W3AT5V5K2E18
(RC8092)	◇	CVLSWT TEST 580-0 B9W3AT5V5
(RC8060)	△	CVLSWT TEST 580-0 B9T5V5
(RC8050)	▷	CVLSWT TEST 580-0 B9

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZONTAL-VERT TAIL



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8077)	○	CVLSWT TEST 580-0 B9W3AT5V5K2E21
(RC8082)	□	CVLSWT TEST 580-0 B9W3AT5V5K2E18
(RC8092)	◇	CVLSWT TEST 580-0 B9W3AT5V5
(RC8080)	△	CVLSWT TEST 580-0 B9T5V5
(RC8050)	▷	CVLSWT TEST 580-0 B9

MACH 0.259

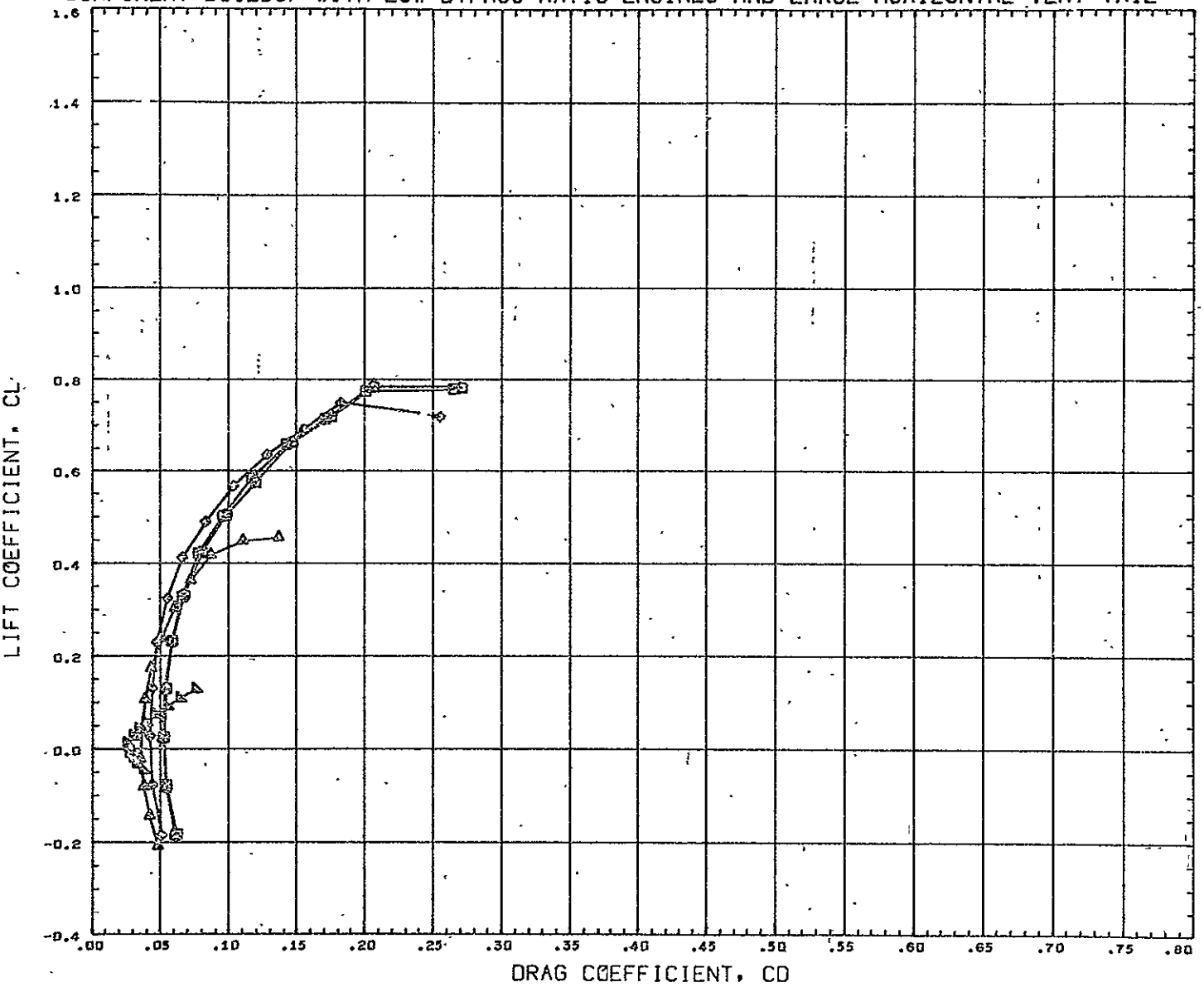
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZONTAL-VERT TAIL



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8077)	○	CVLSWT TEST 580-0 B9W3AT5V5K2E21
(RC8082)	□	CVLSWT TEST 580-0 B9W3AT5V5K2E18
(RC8092)	◇	CVLSWT TEST 580-0 B9W3AT5V5
(RC8080)	△	CVLSWT TEST 580-0 B9T5V5
(RC8050)	▷	CVLSWT TEST 580-0 B9

MACH 0.259

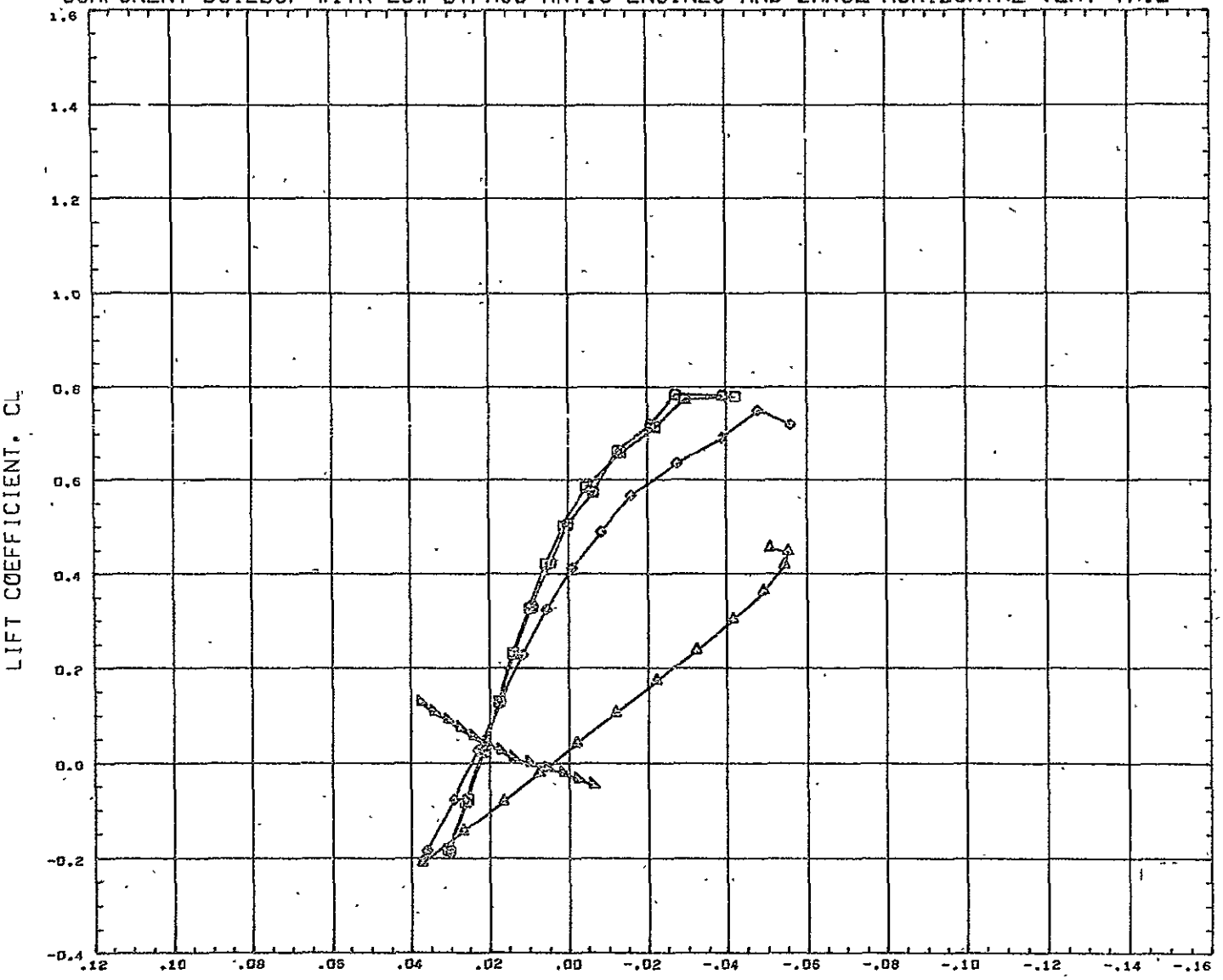
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

COMPONENT BUILDUP WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZONTAL-VERT TAIL



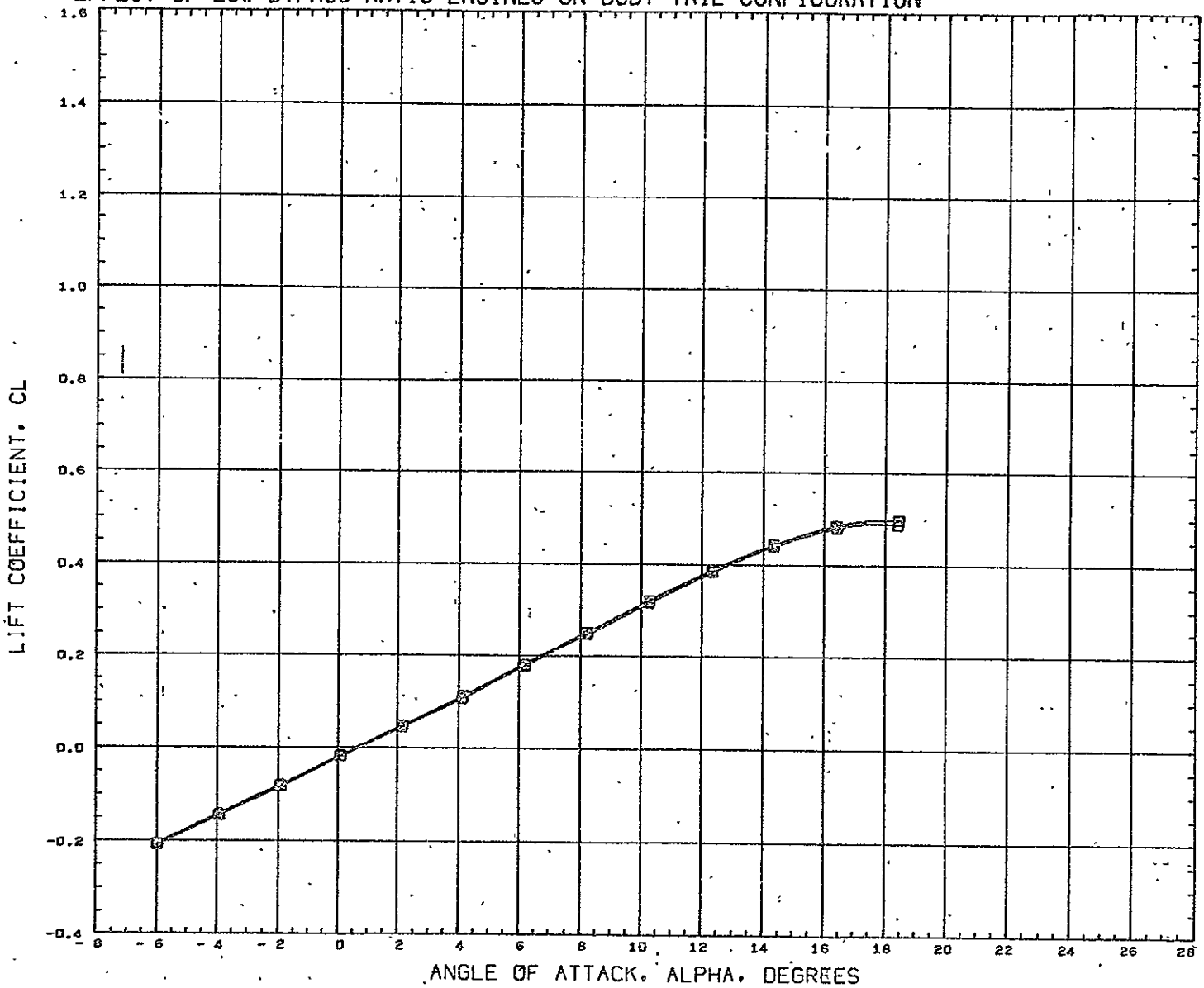
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8077)	○	CVLSWT TEST 580-0 B9W3AT5V5K2E21
(RC8082)	□	CVLSWT TEST 580-0 B9W3AT5V5K2E18
(RC8092)	◇	CVLSWT TEST 580-0 B9W3AT5V5
(RC8080)	△	CVLSWT TEST 580-0 B9T5V5
(RC8050)	▷	CVLSWT TEST 580-0 B9

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINES ON BODY-TAIL CONFIGURATION



DATA SET SYMBOL - CONFIGURATION DESCRIPTION

(RC8079) □ CVLSWT TEST 580-0 B9T5V5K2E18

(RC8078) □ CVLSWT TEST 580-0 B9T5V5K2E21

PARAMETRIC VALUES

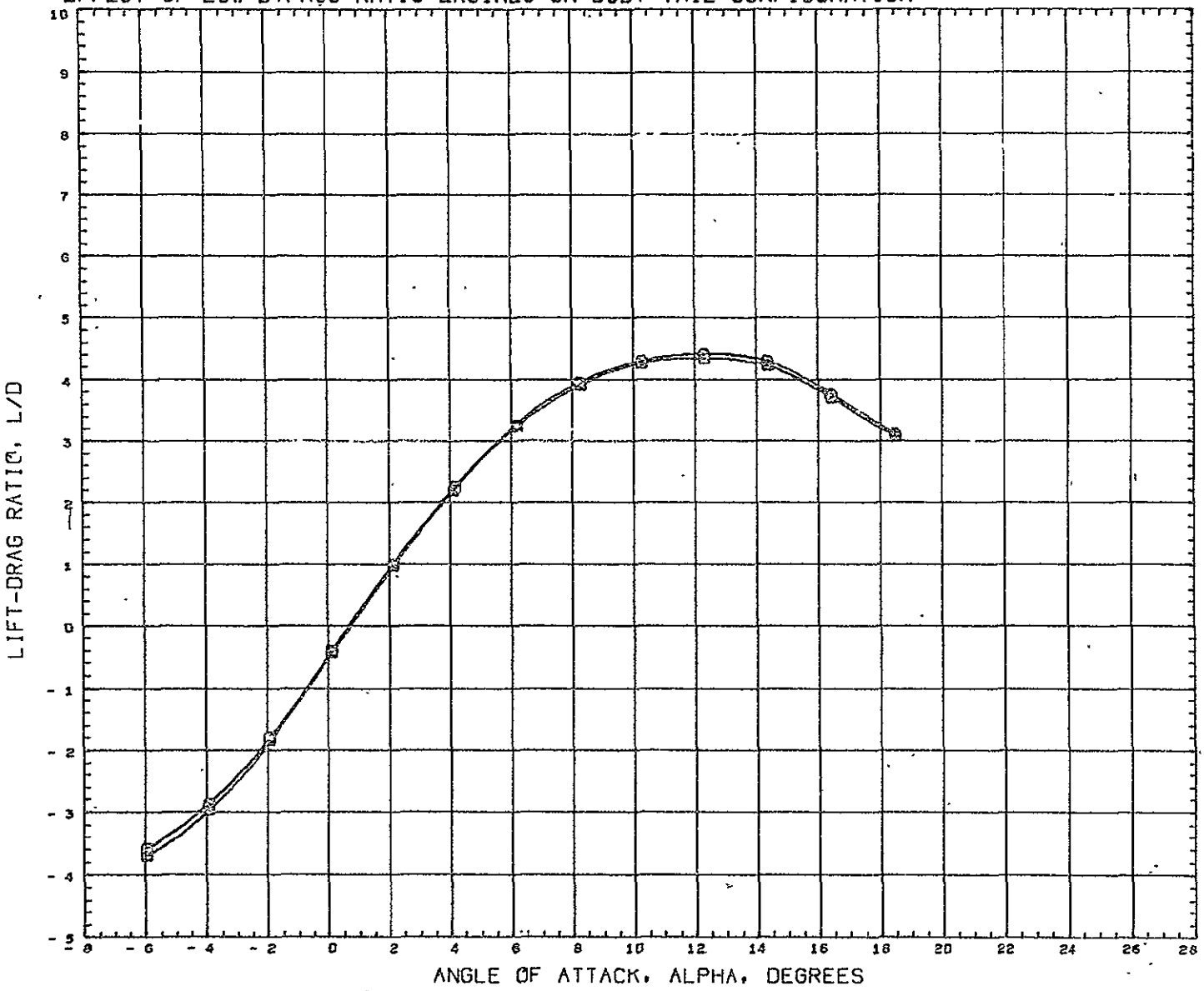
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	ENGINE	18.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF LOW-BYPASS RATIO ENGINES ON BODY-TAIL CONFIGURATION



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC6079)	○	CVLSWT TEST 580-0 B9T5V5K2E18
(RC6078)	□	CVLSWT TEST 580-0 B9T5V5K2E21

MACH 0.259

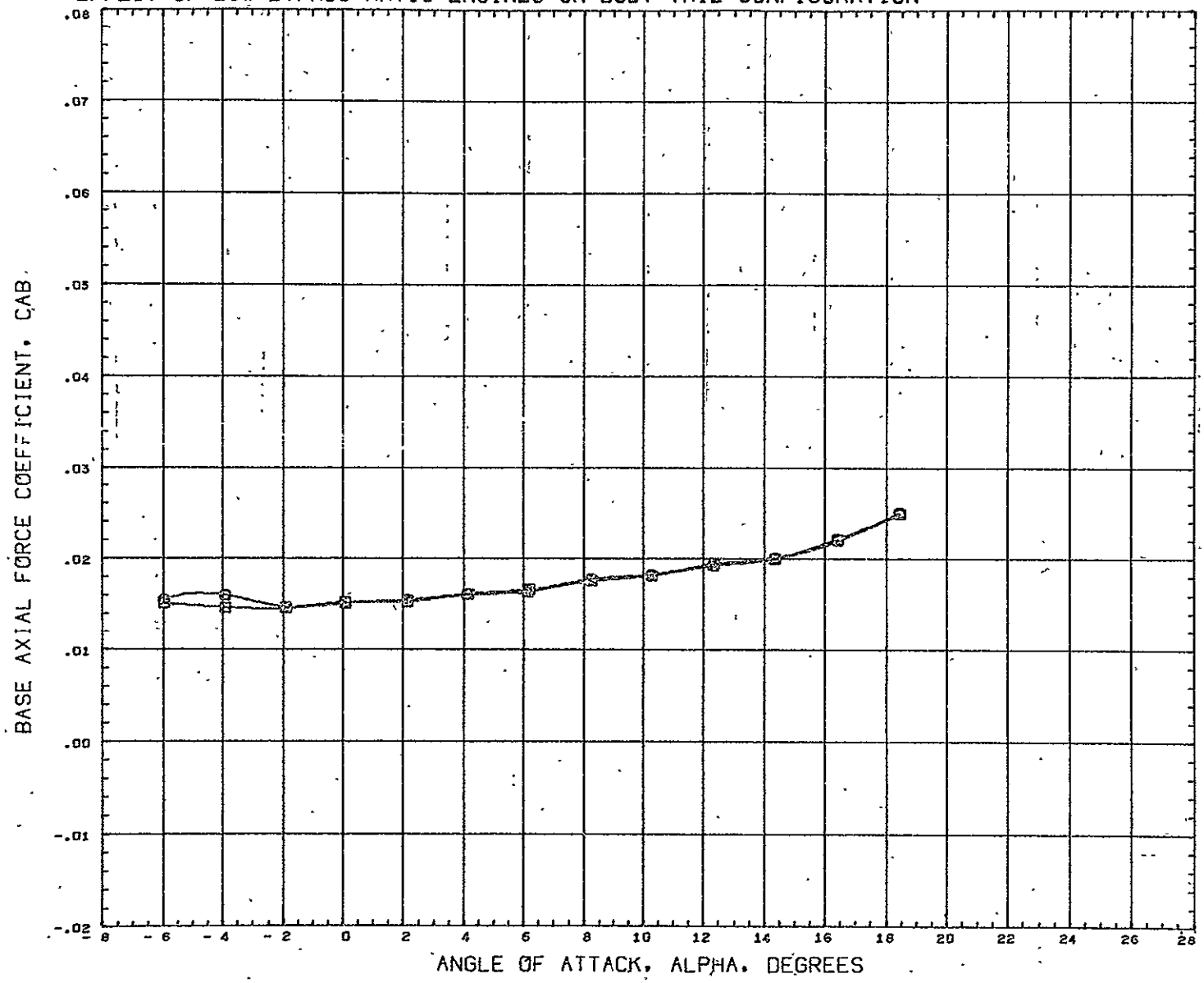
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	ENGINE	18.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINES ON BODY-TAIL CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8079)	○	CVLSWT TEST 580-0 B9T5V5K2E18
(RC8078)	□	CVLSWT TEST 580-0 B9T5V5K2E21

PARAMETRIC VALUES

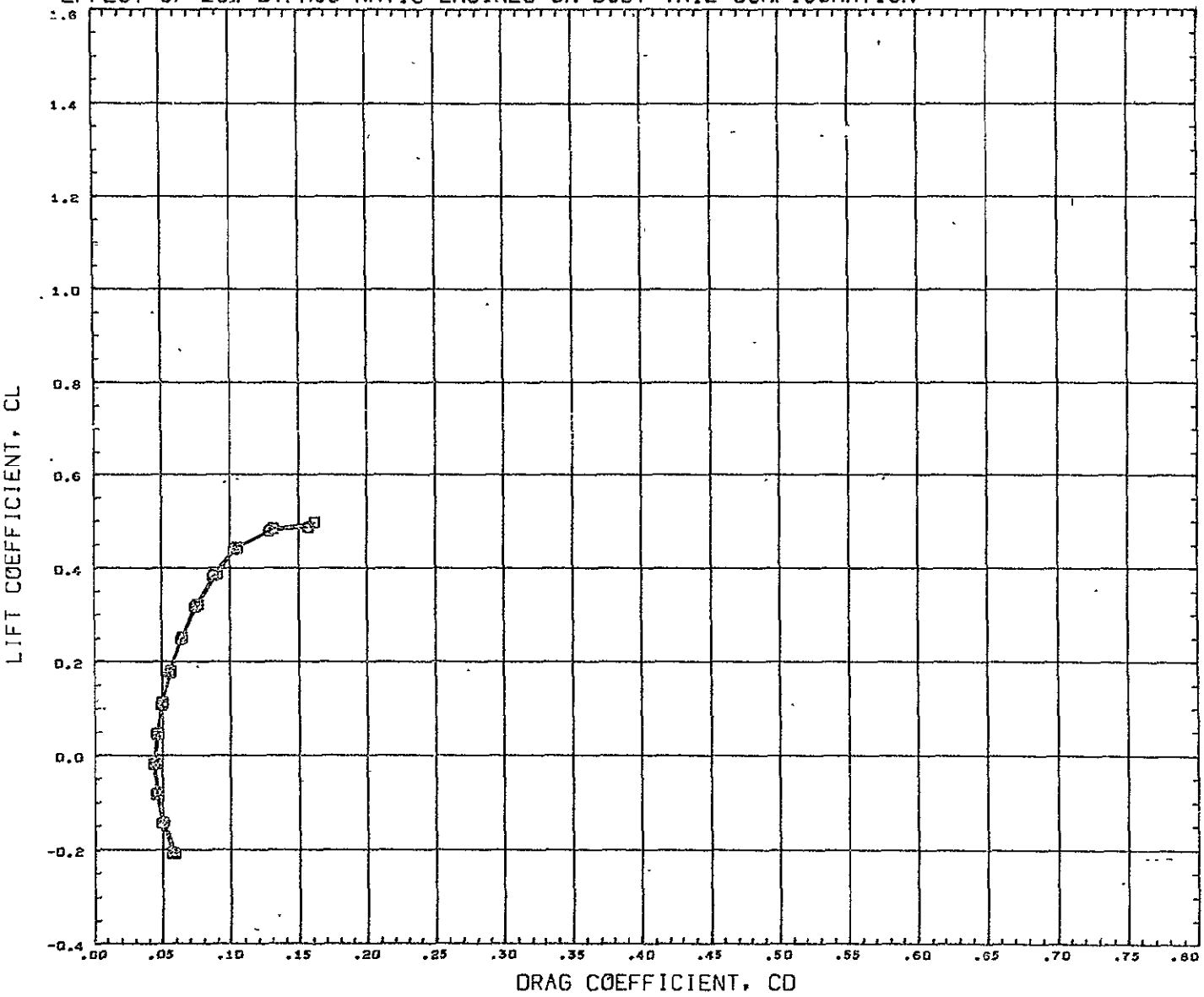
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	ENGINE	18.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF LOW-BYPASS RATIO ENGINES ON BODY-TAIL CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8079)	○	CVLSWT TEST 580-0 B9T5V5K2E18
(RC8078)	□	CVLSWT TEST 580-0. B9T5V5K2E21

MACH 0.259

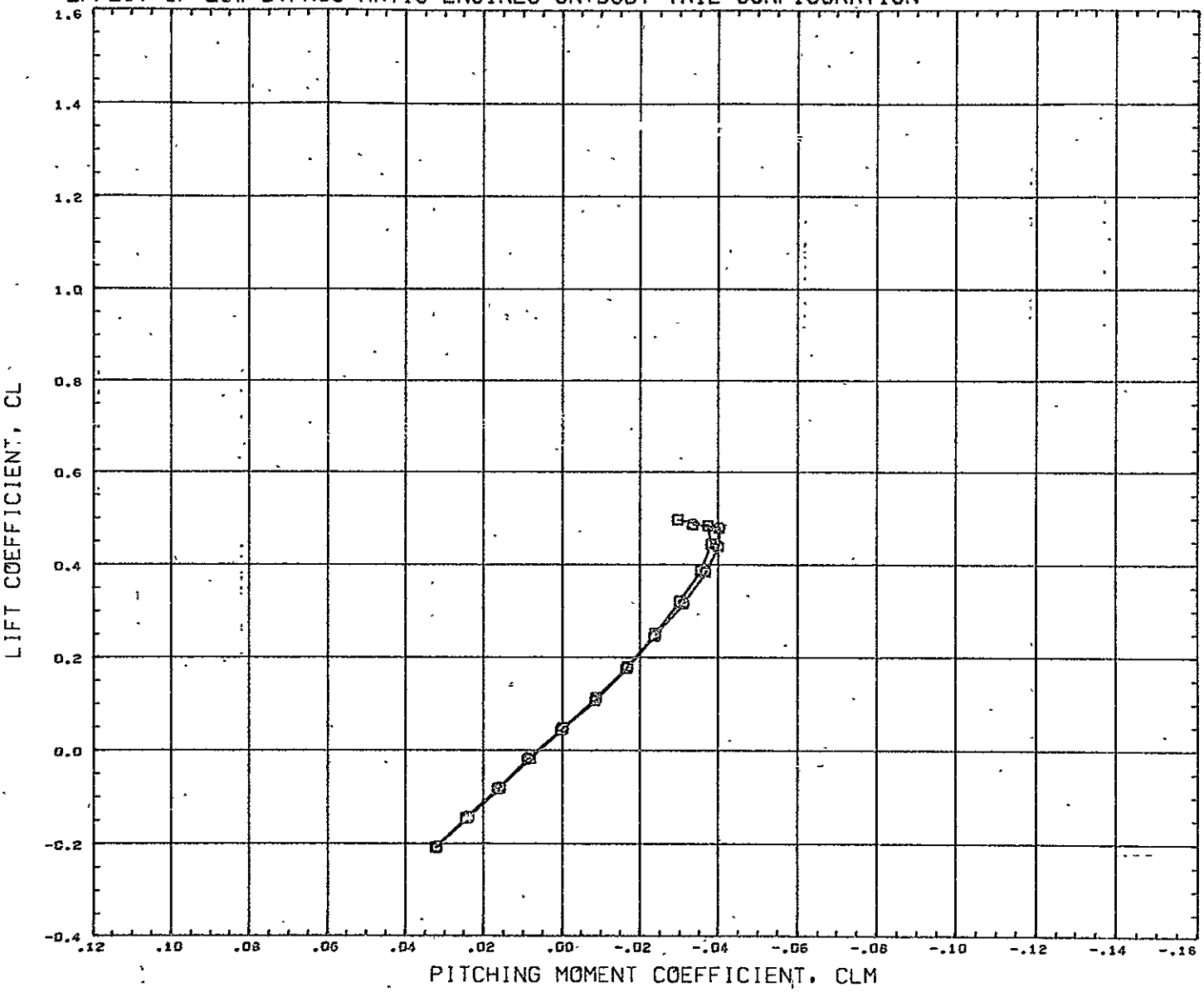
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	ENGINE	18.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINES ON BODY-TAIL CONFIGURATION



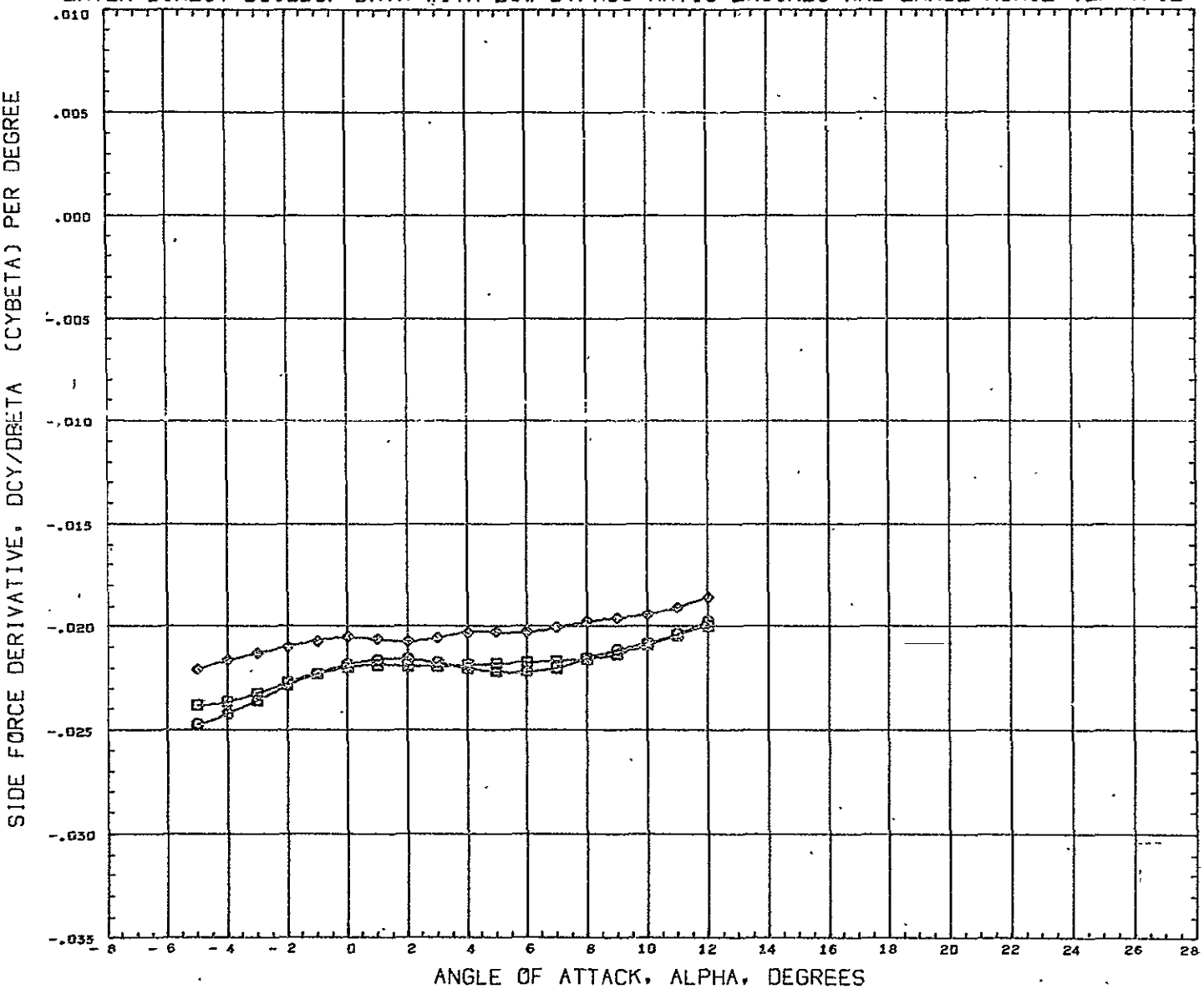
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8079)	○	CVLSWT TEST 580-0 B9T5V5K2E18
(RC8078)	□	CVLSWT TEST 580-0 B9T5V5K2E21

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	ENGINE	18.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LATER-DIRECT BUILDUP DATA WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZ-VER TAIL



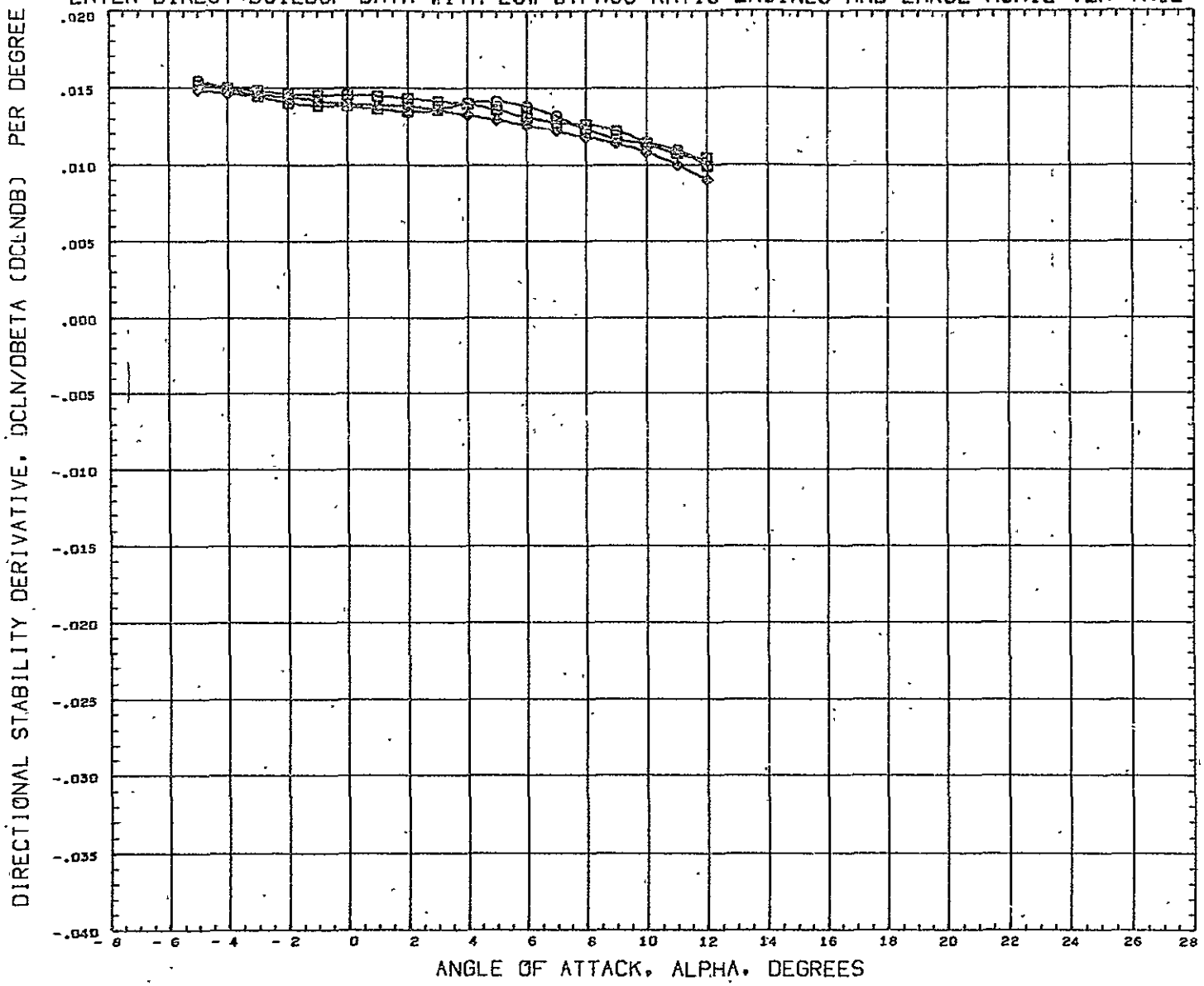
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(PC8083)	○	CVLSWT TEST 580-0 B9W3AT5V5K2E18
(PC8093)	□	CVLSWT TEST 580-0 B9W3AT5V5
(PC8081)	◇	CVLSWT TEST 580-0 B9T5V5

MACH 0.259

PARAMETRIC VALUES			
BETA	- 4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LATER-DIRECT BUILDUP DATA WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZ-VER TAIL



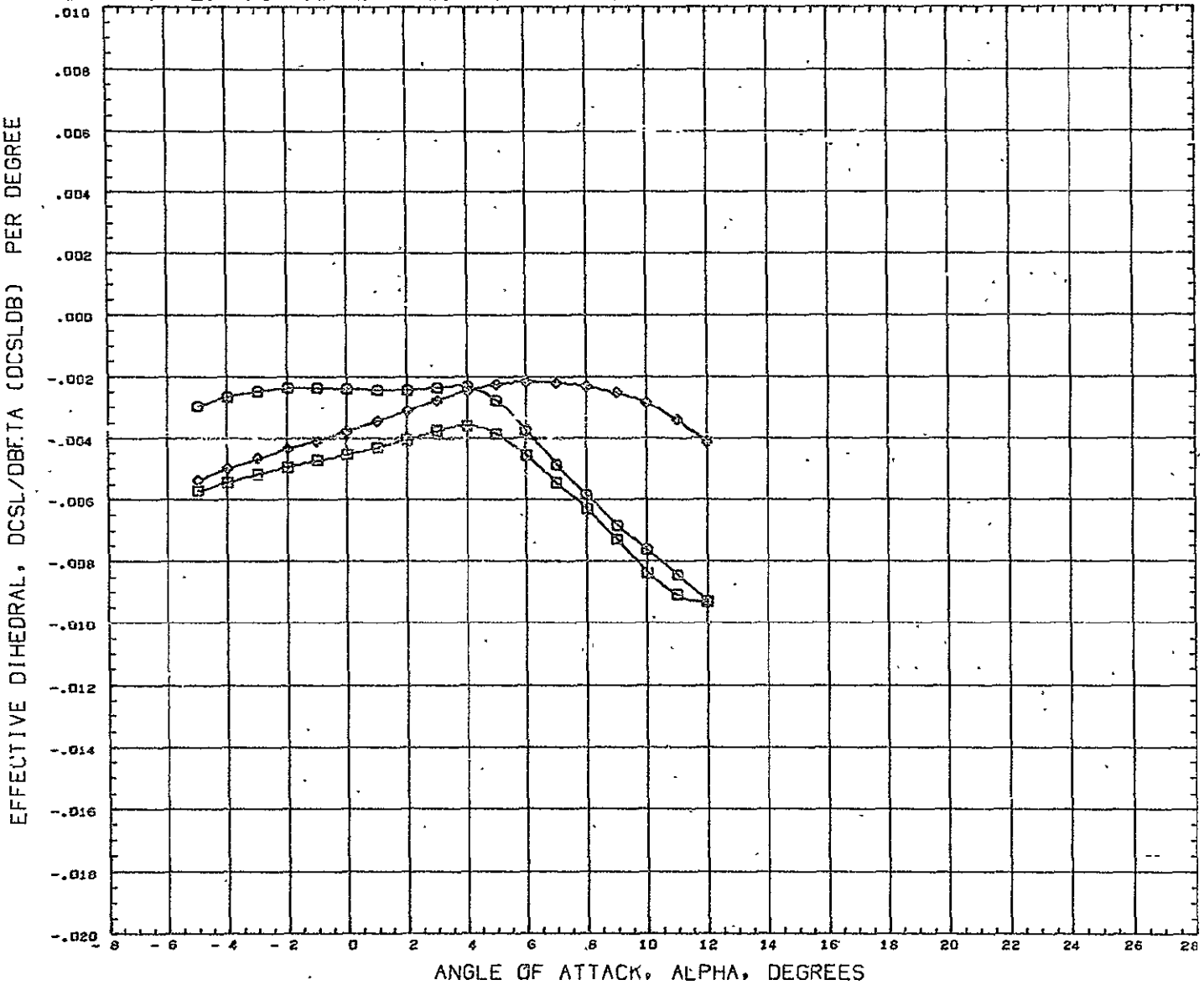
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PC8003)	○	CVLSWT TEST 580-0 B9W3AT5V5K2E18
(PC8093)	□	CVLSWT TEST 580-0 B9W3AT5V5
(PC8081)	◇	CVLSWT TEST 580-0 B9T5V5

MACH 0.259

PARAMETRIC VALUES			
BETA	-4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LATER-DIRECT BUILDUP DATA WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZ-VER TAIL



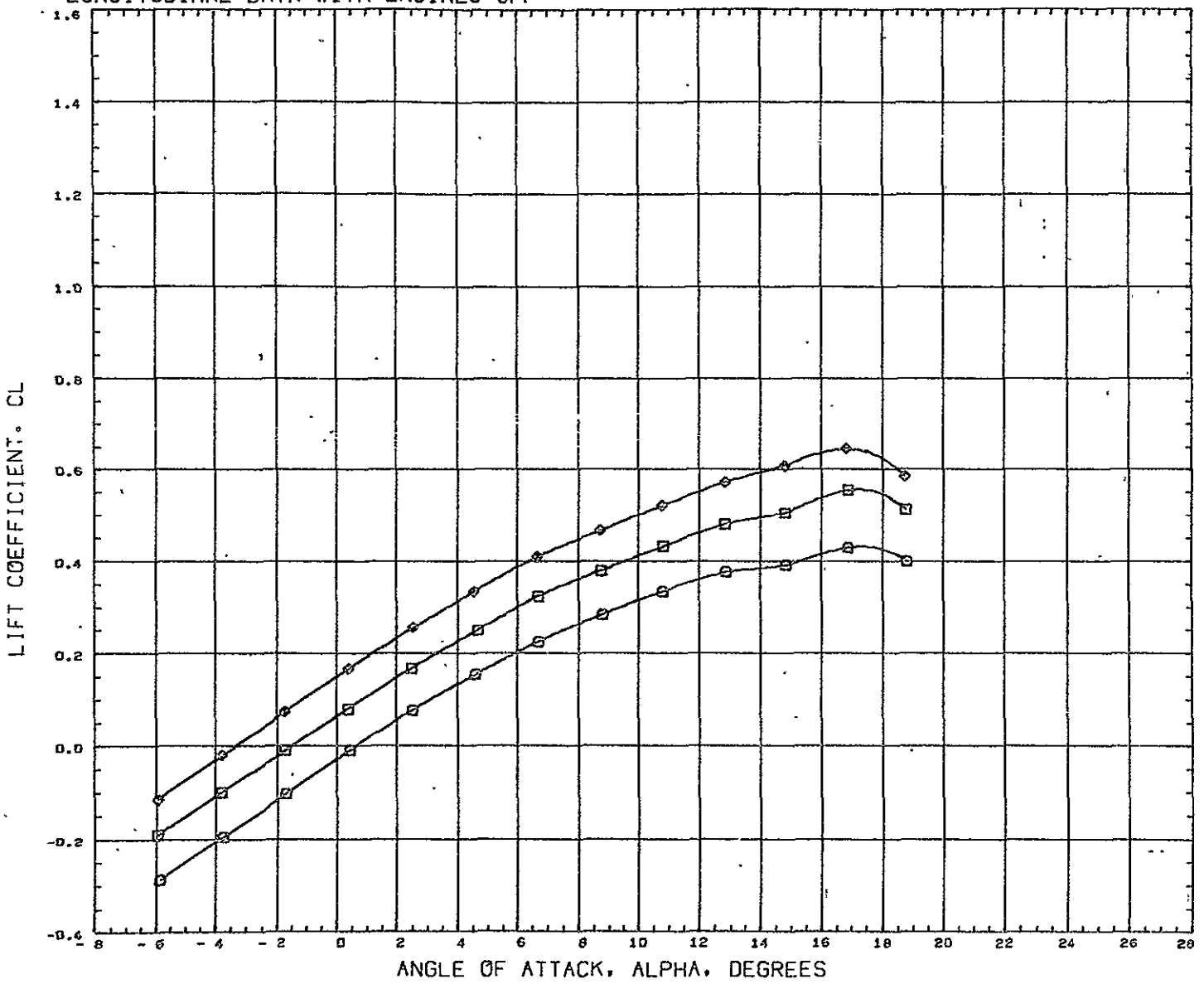
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PC8083)	○	CVLSWT TEST 580-0 B9W3AT5V5K2E18
(PC8093)	□	CVLSWT TEST 580-0 B9W3AT5V5
(PC8081)	◇	CVLSWT TEST 580-0 B9T5V5

MACH 0.259

PARAMETRIC VALUES			
BETA	-4.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH ENGINES OFF

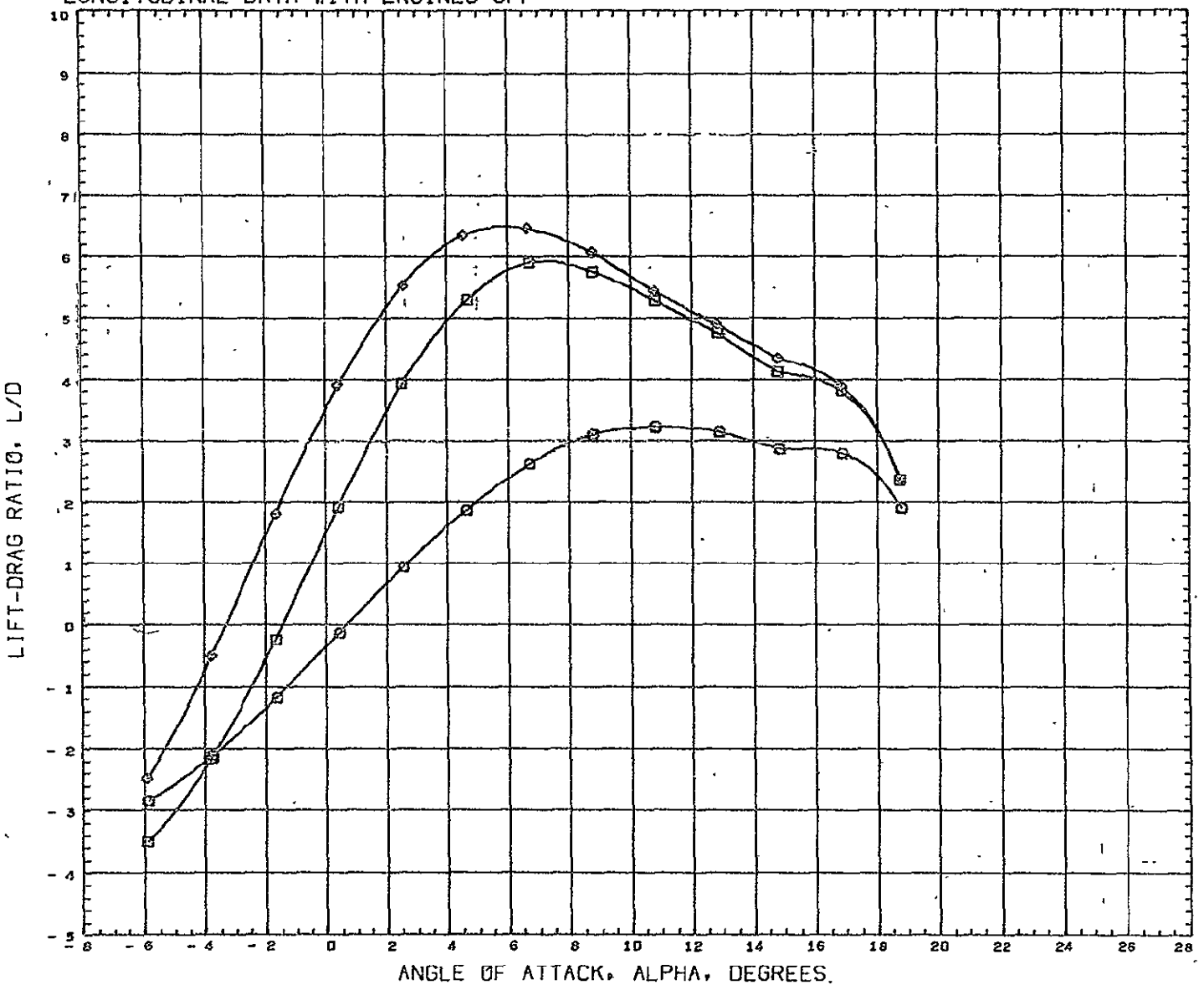


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH ENGINES OFF

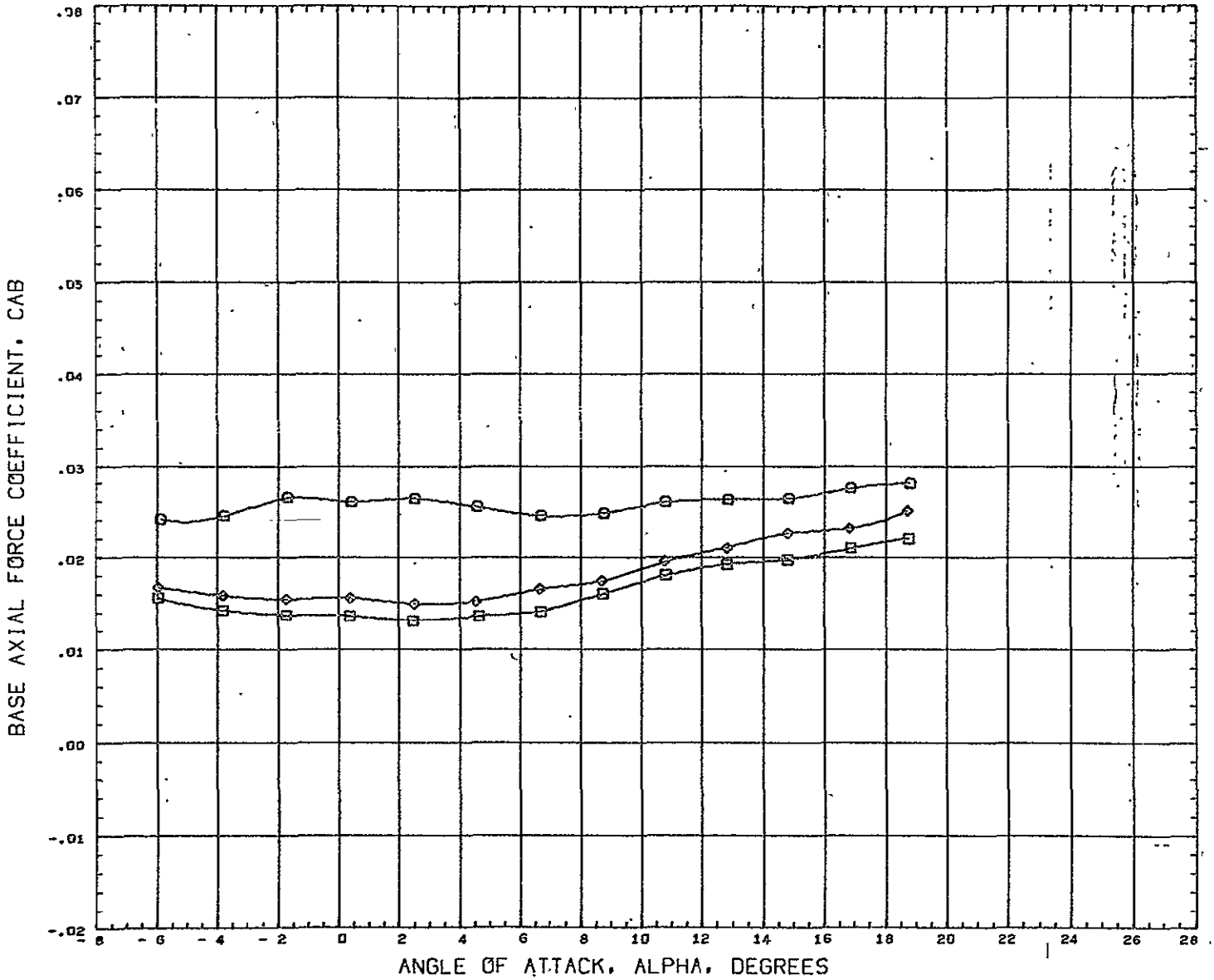


SYMBOL	ELEVTR		PARAMETRIC VALUES		
□	-30.000	MACH	0.259	BETA	0.000
□	-10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH ENGINES OFF

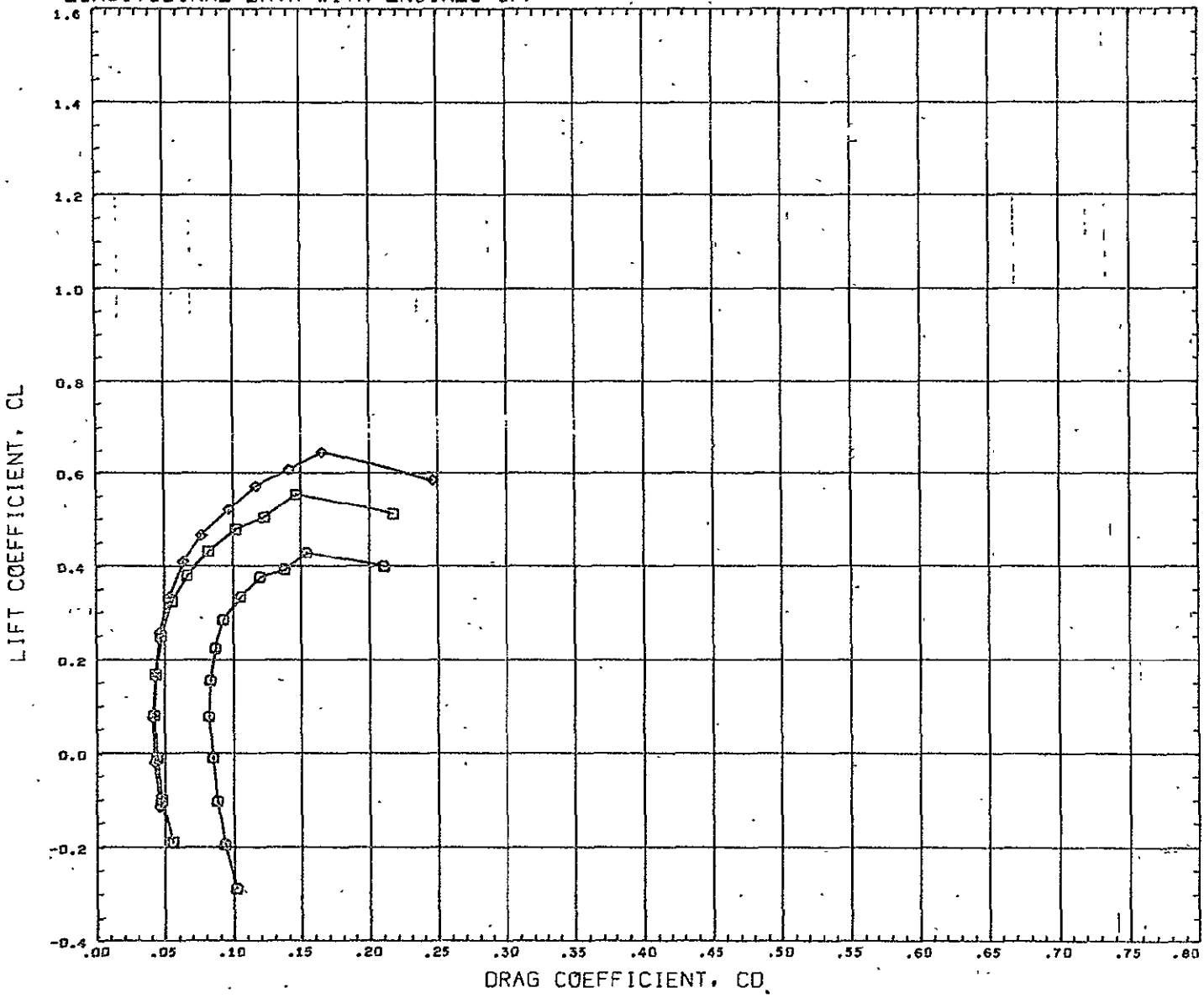


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRF	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH ENGINES OFF

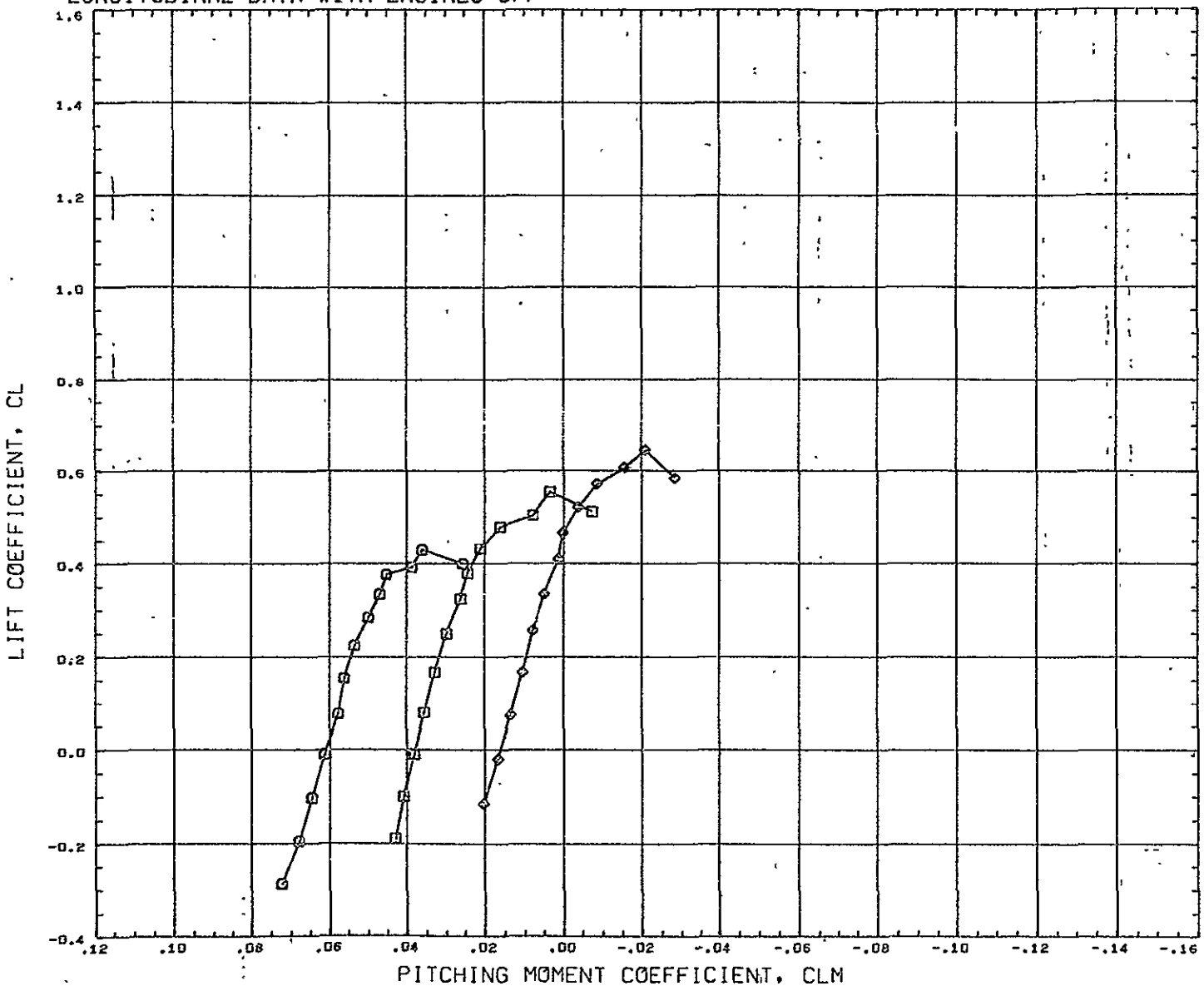


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH ENGINES OFF



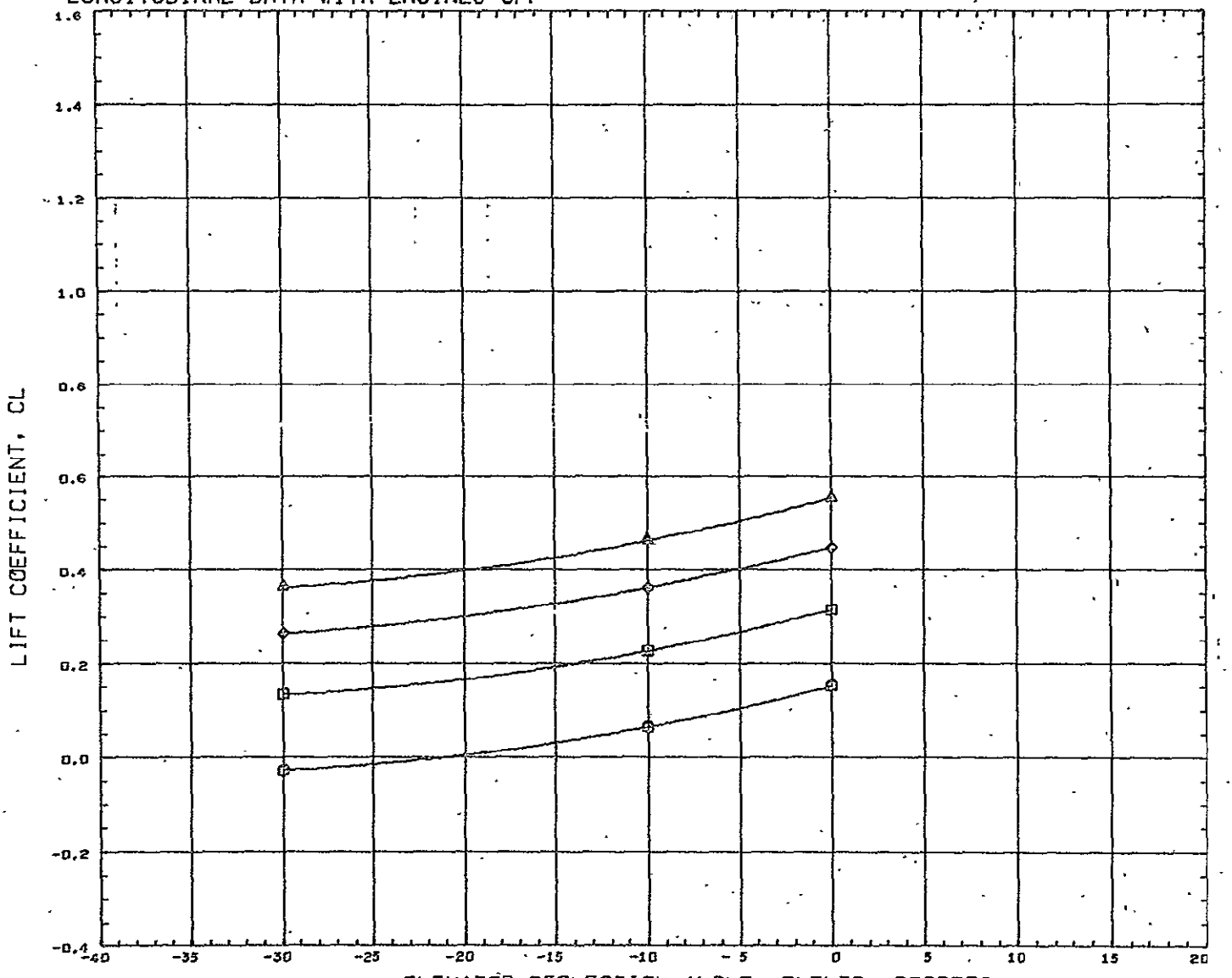
SYMBOL	ELEVTR		PARAMETRIC VALUES		
□	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH ENGINES OFF

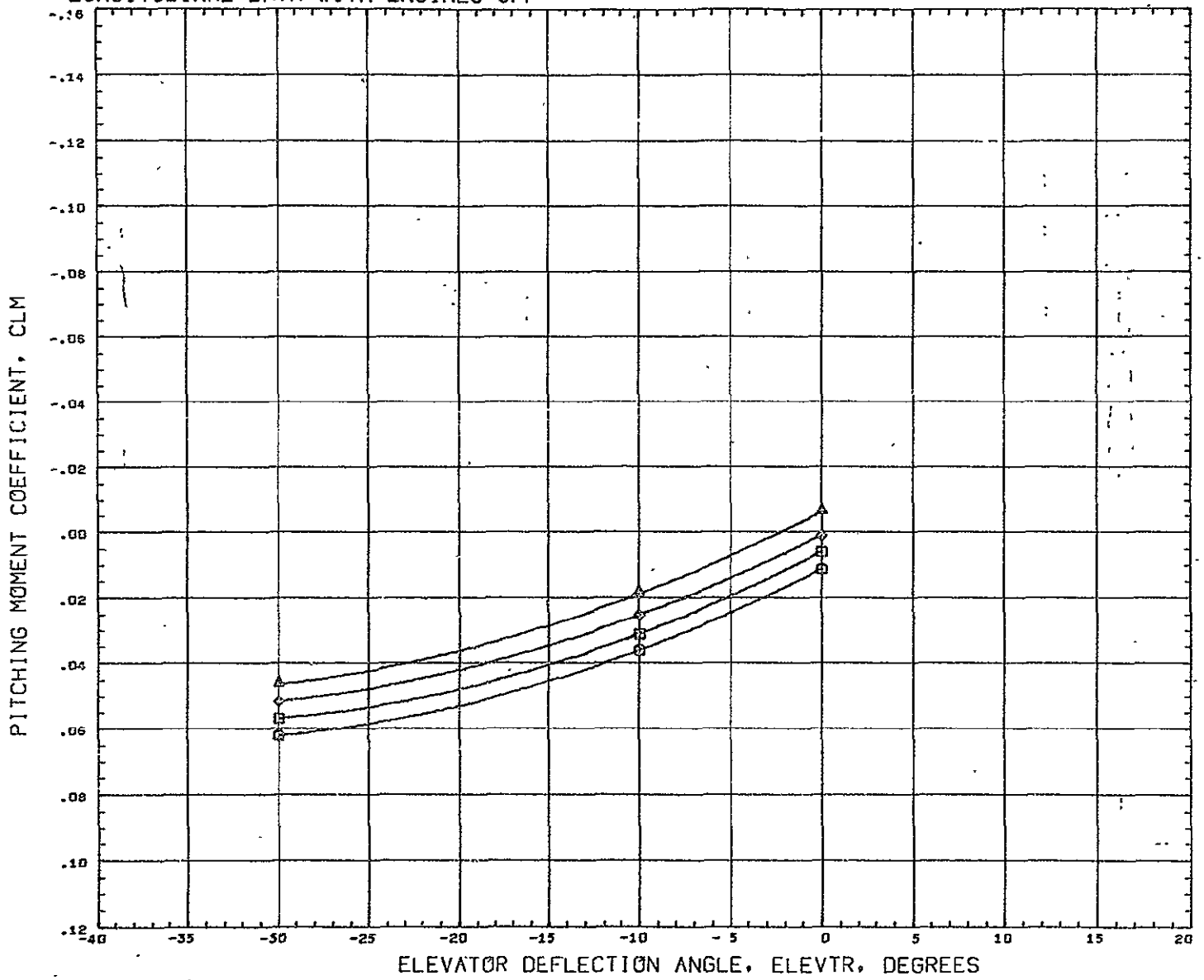


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	0.000	MACH	0.259	BETA	0.000
□	4.000	RUDDER	0.000	FLAPS	0.000
◇	8.000	SPOILR	0.000		
△	12.000				

DATA HIST. CODE I

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XHRP	29.3920	IN
YHRP	0.0000	IN
ZHRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH ENGINES OFF



SYMBOL	ALPHA
○	0.000
□	4.000
◇	8.000
△	12.000

PARAMETRIC VALUES

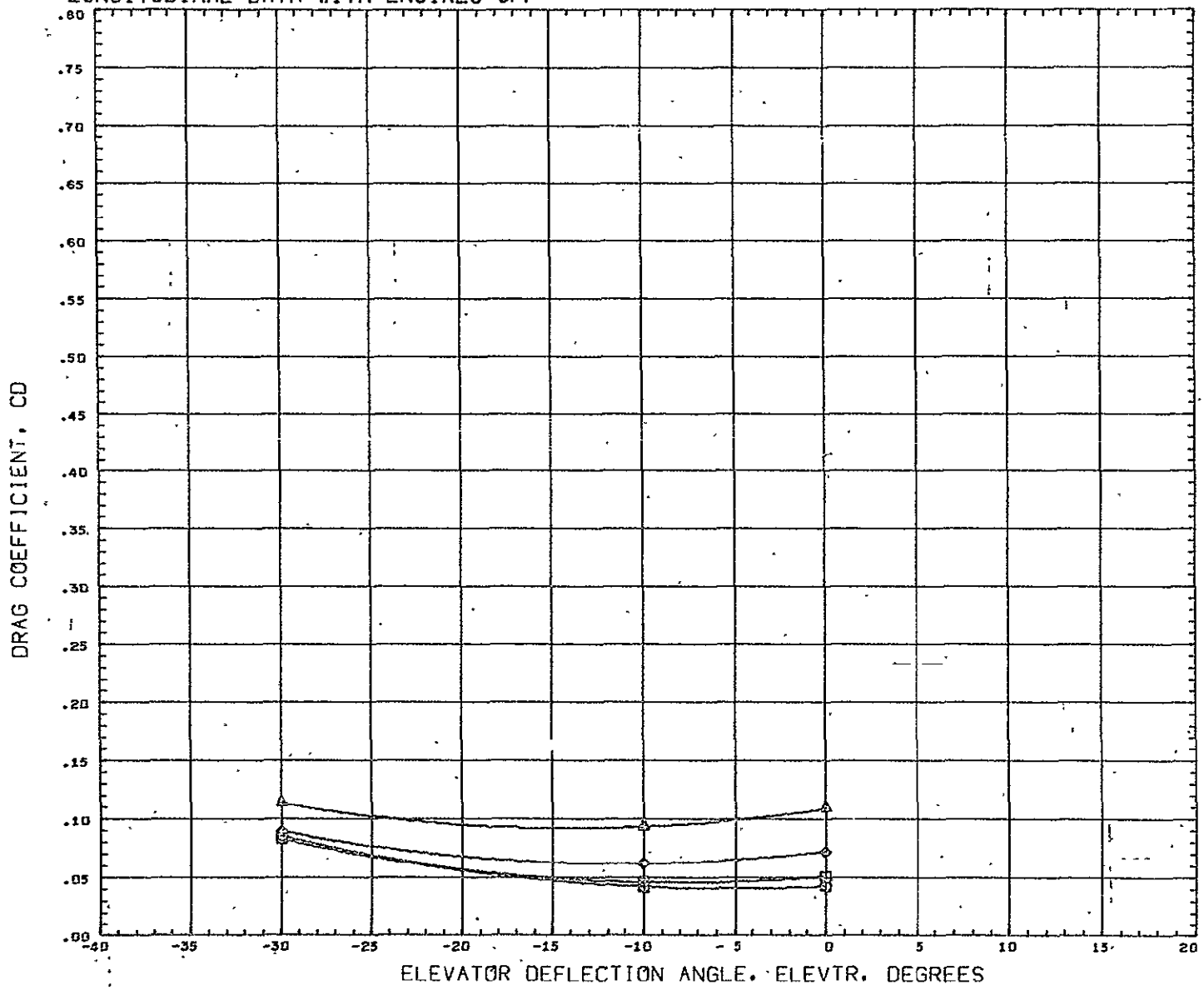
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH ENGINES OFF



SYMBOL	ALPHA
○	0.000
□	4.000
◇	8.000
△	12.000

PARAMETRIC VALUES

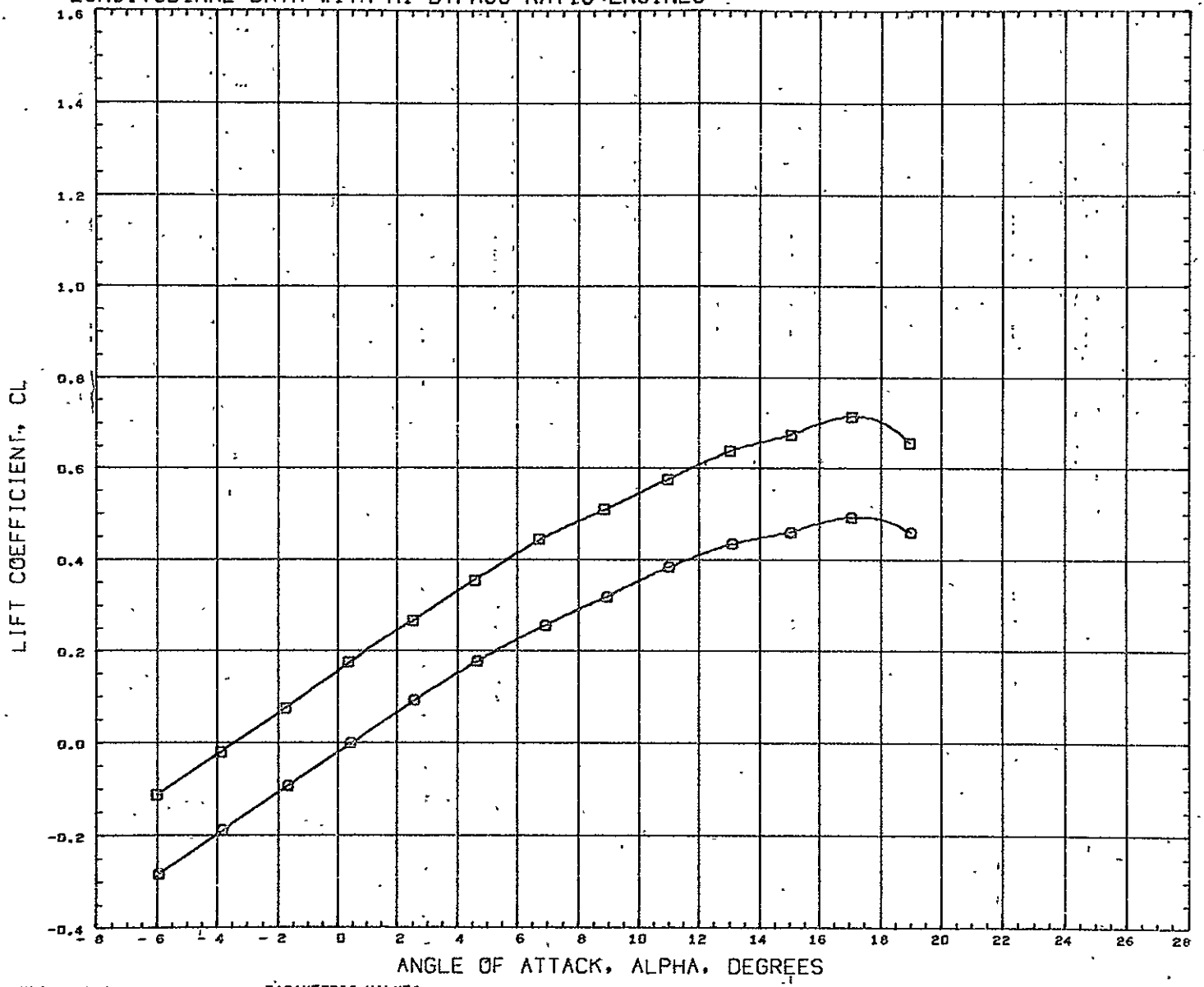
MACH	0.259	BETA	0.000		
RUDDER	0.000	FLAPS	0.000		
SPOILR	0.000				

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
O	- 30.000
□	0.000

PARAMETRIC VALUES

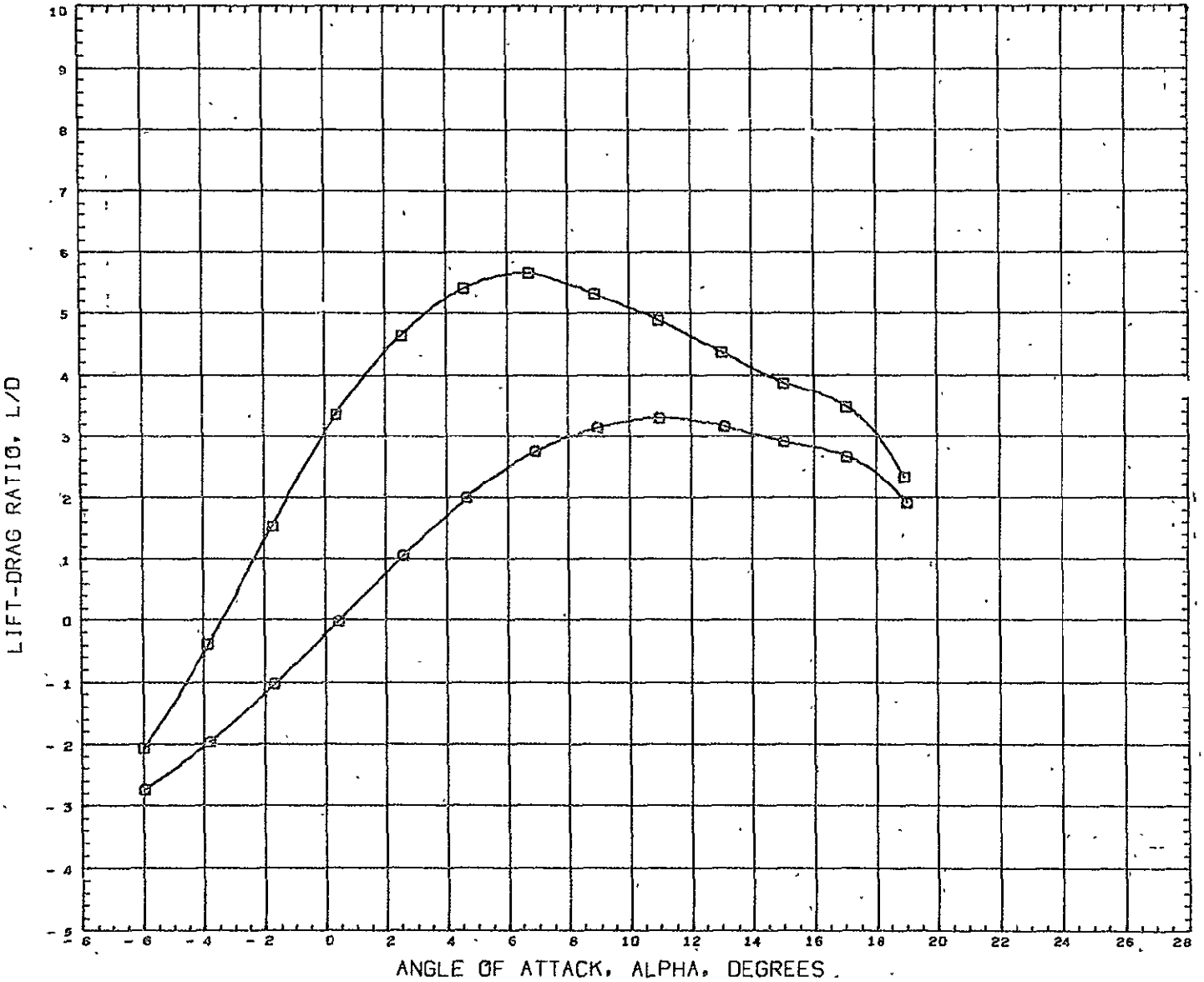
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES

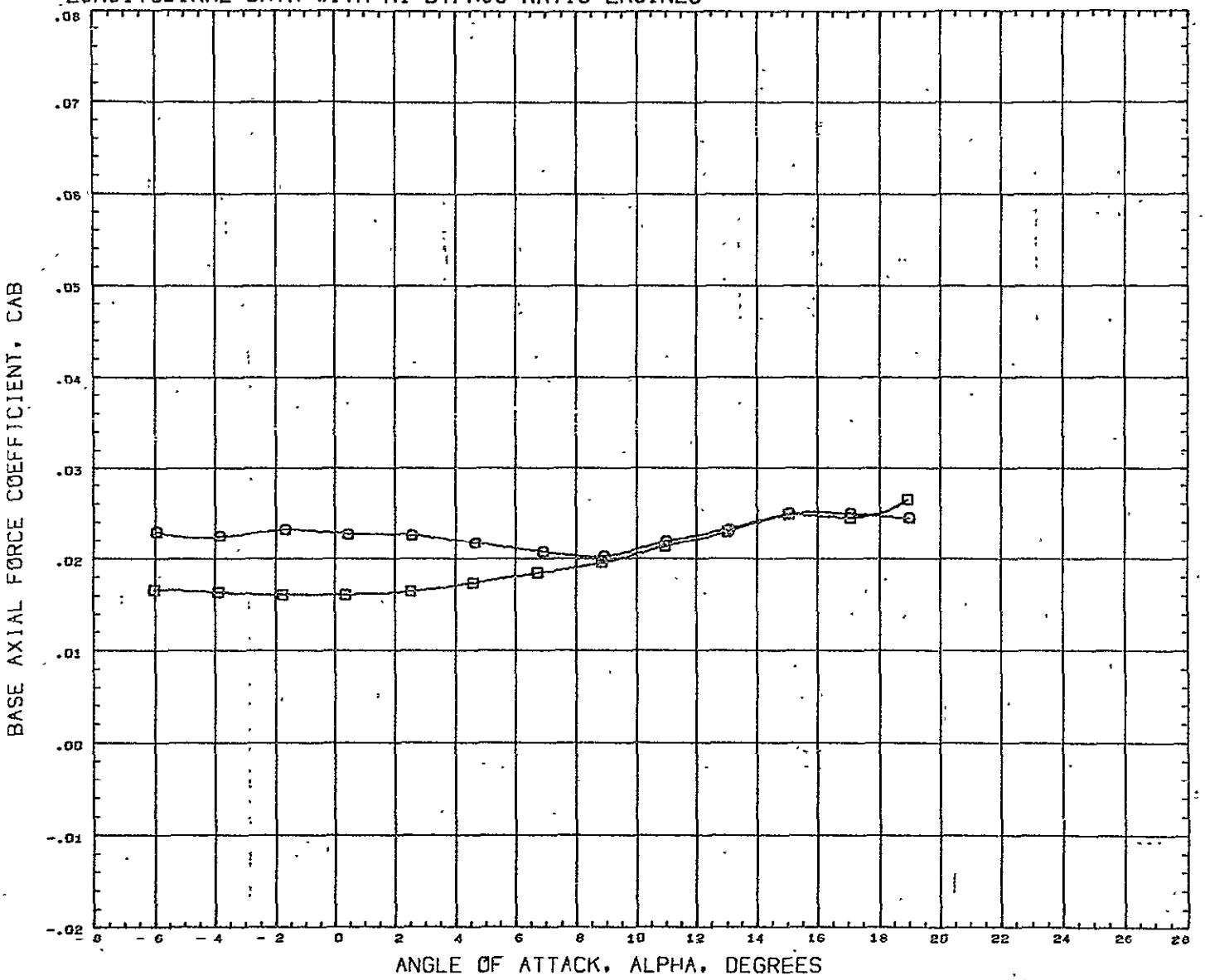


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	-30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
O	- 30.000
□	0.000

PARAMETRIC VALUES

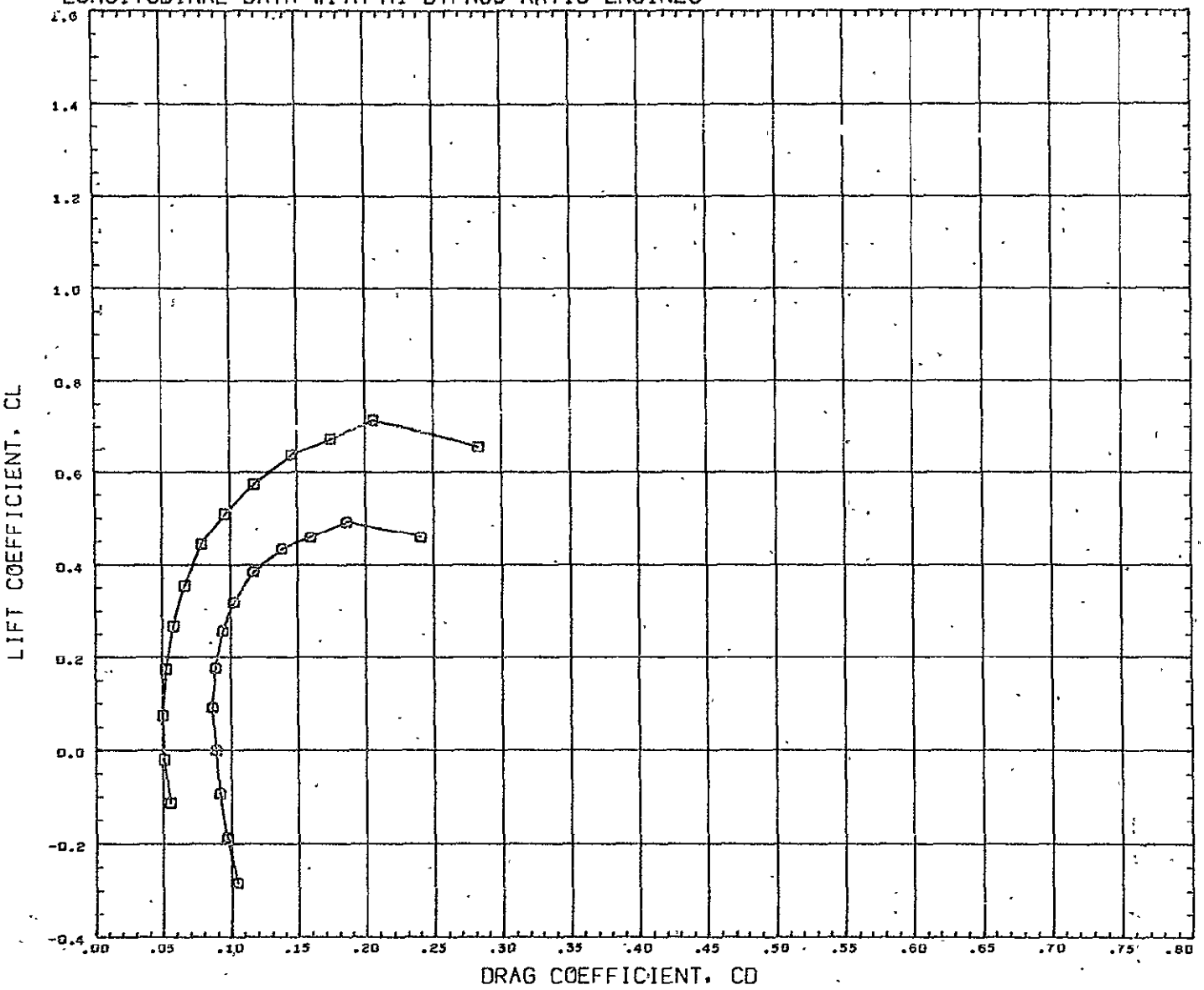
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES

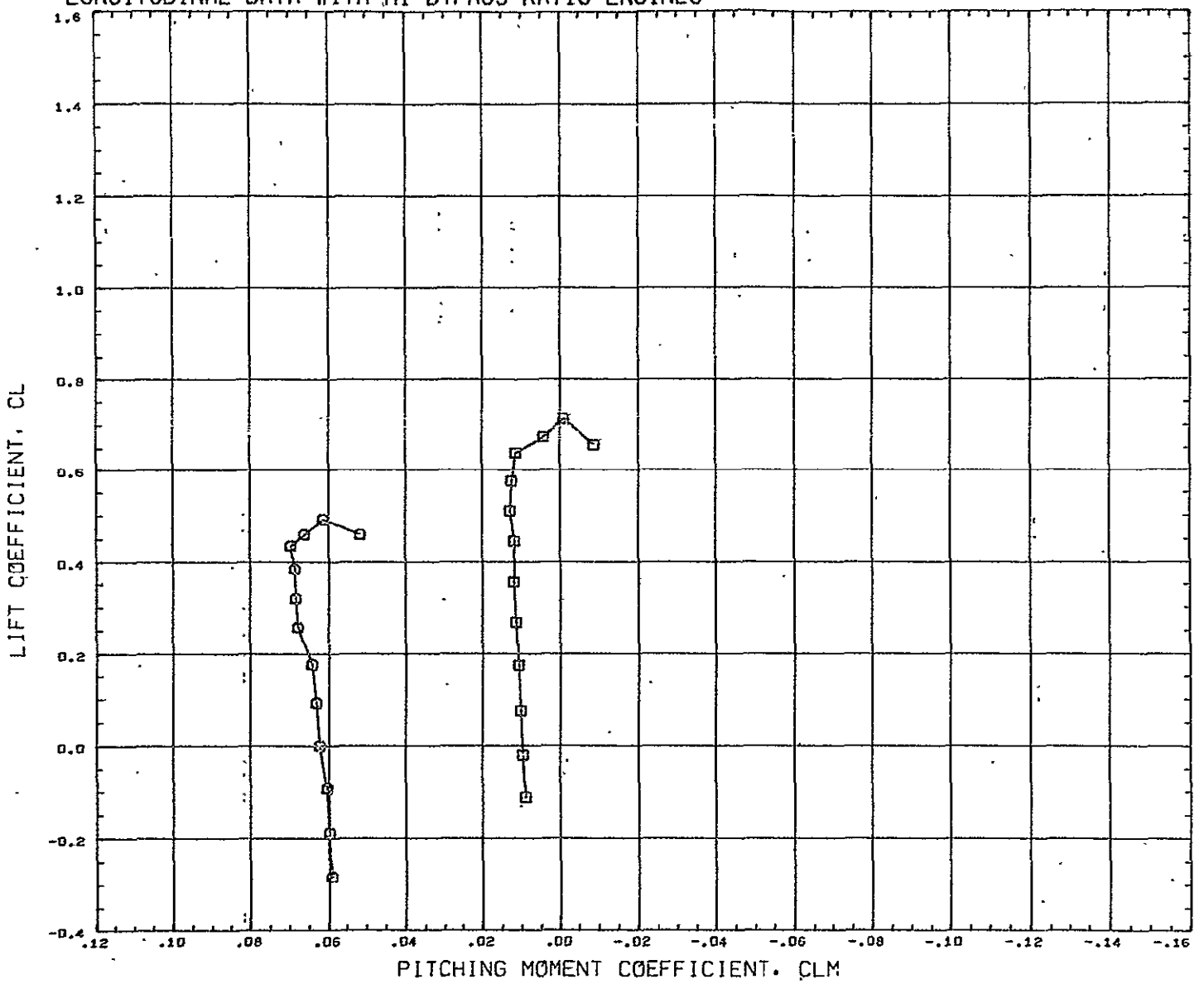


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
O	- 30.000
□	0.000

PARAMETRIC VALUES

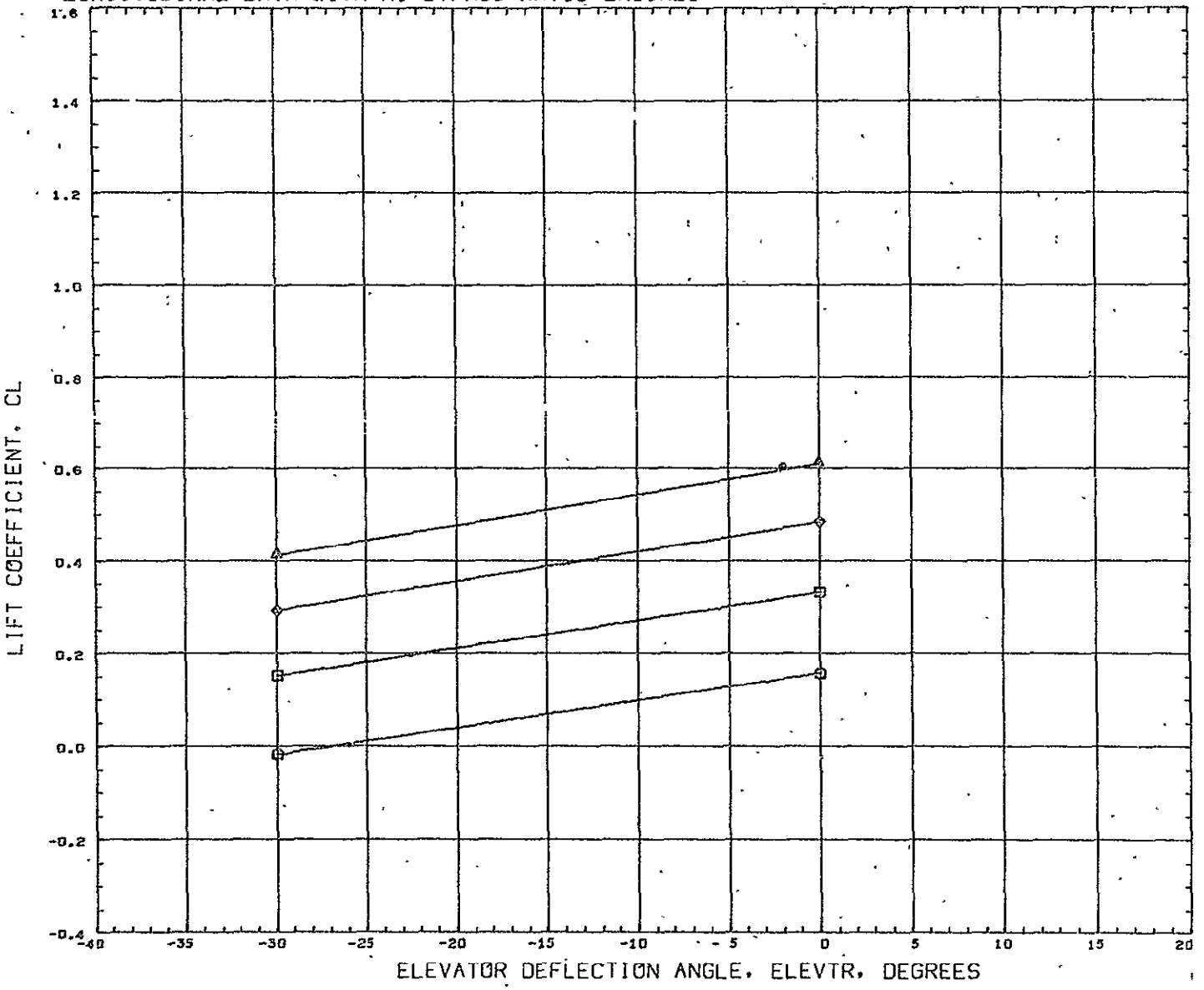
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



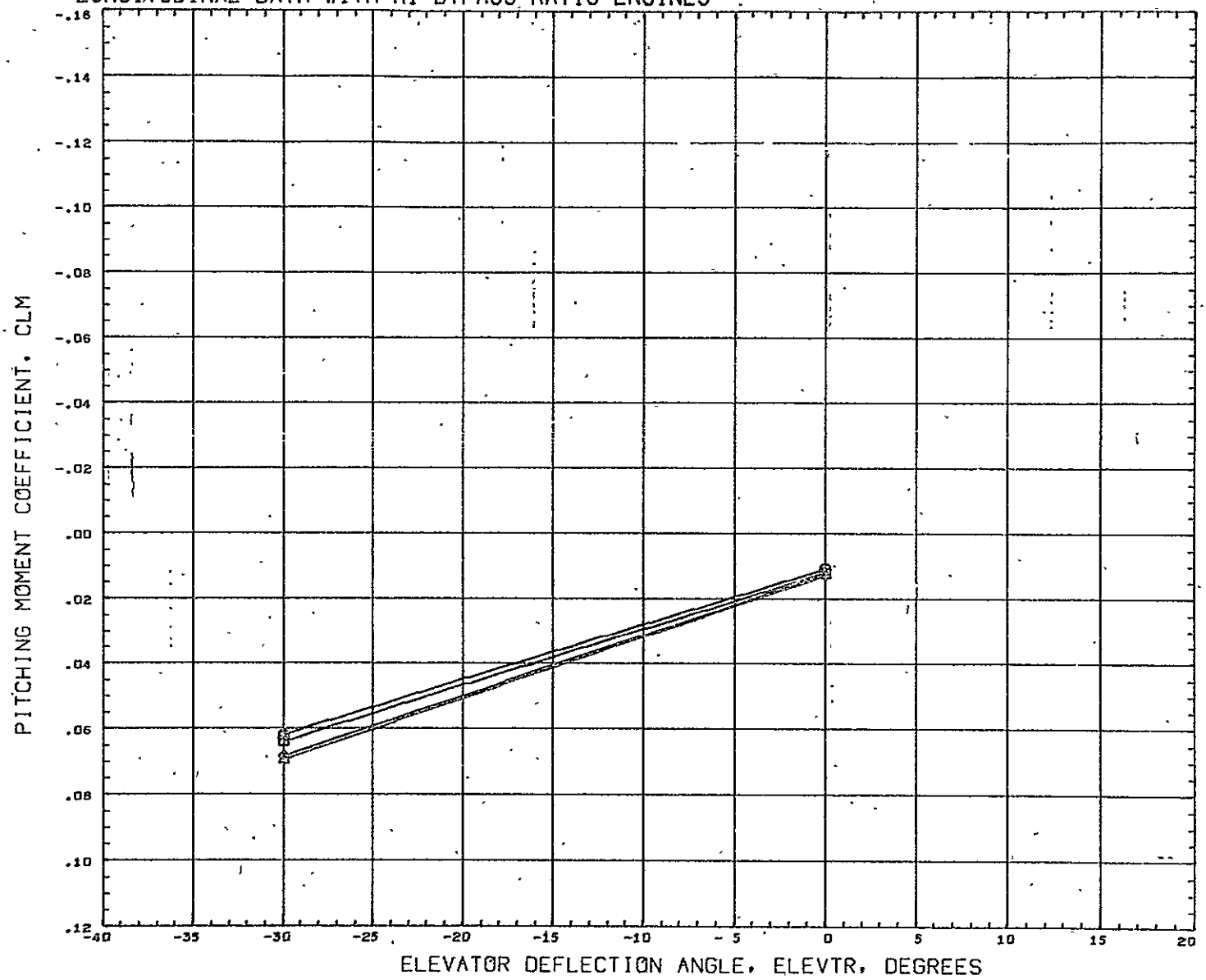
SYMBOL	ALFHA		PARAMETRIC VALUES		
○	0.000	MACH	0.259	BETA	0.000
□	4.000	RUDDER	0.000	FLAPS	0.000
◇	8.000	SPOILR	0.000	ENGINE	13.000
△	12.000				

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



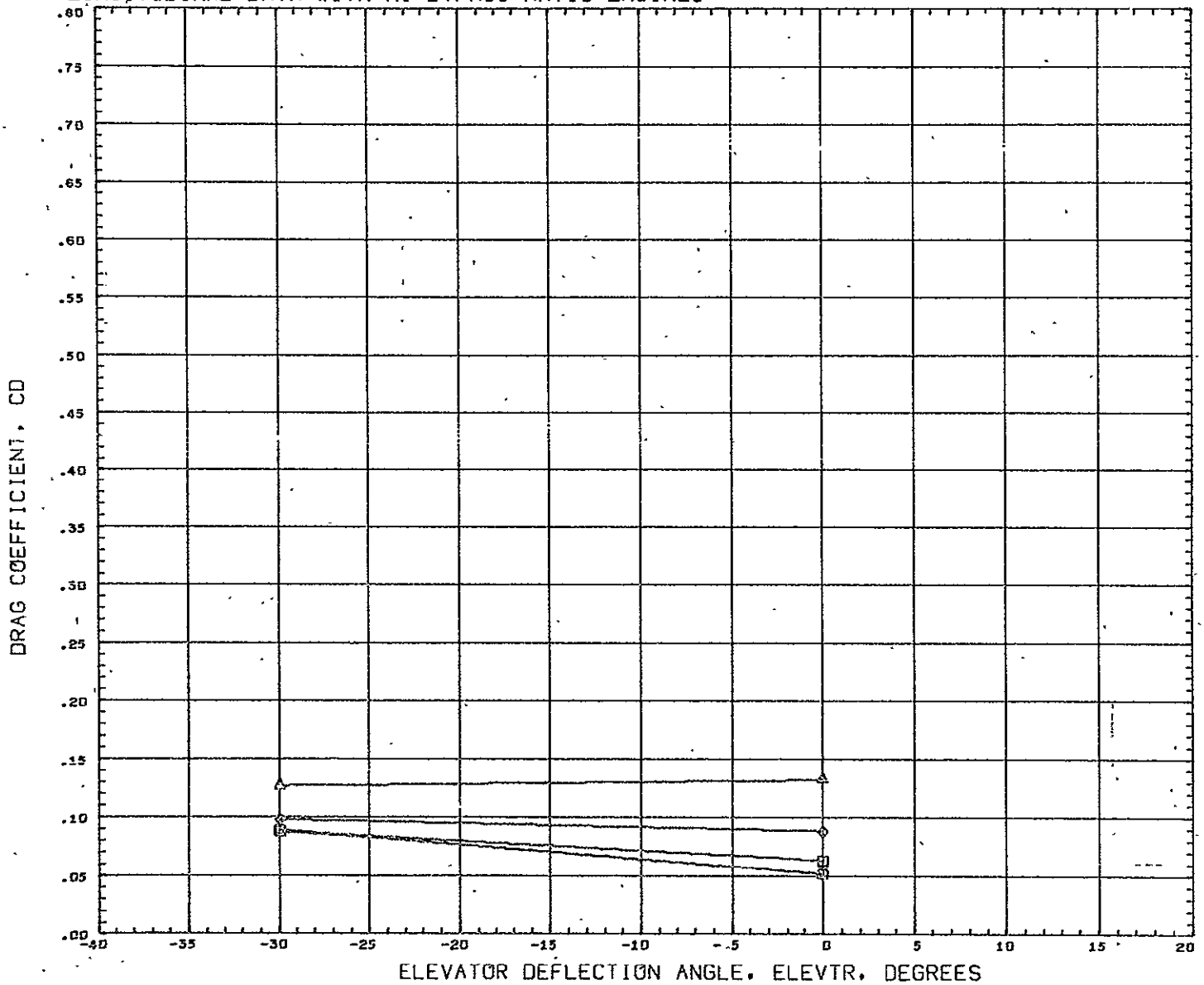
SYMBOL	ALFHA		PARAMETRIC VALUES		
○	0.000	MACH	0.259	BETA	0.000
□	4.000	RUDDER	0.000	FLAPS	0.000
◇	8.000	SPOILR	0.000	ENGINE	13.000
△	12.000				

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



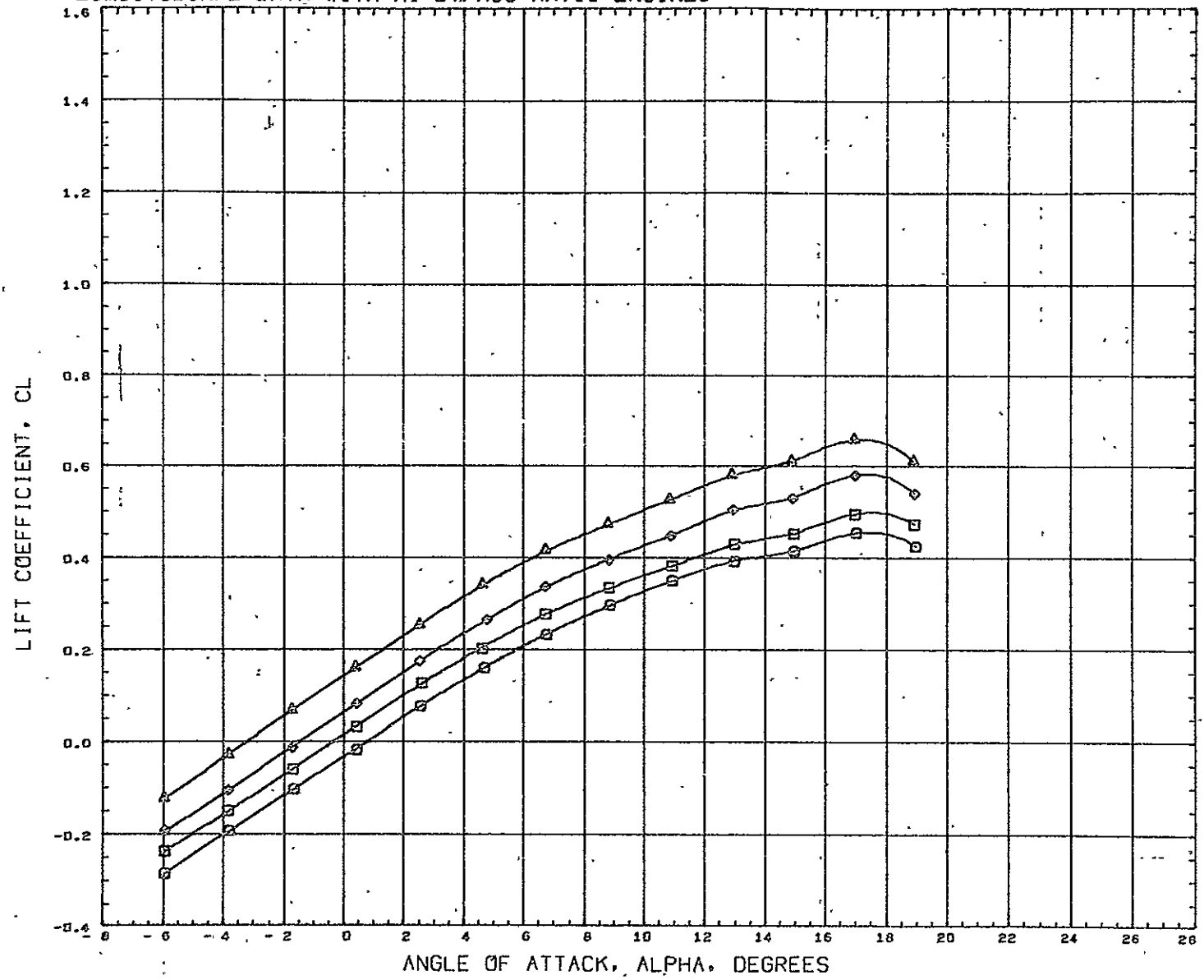
SYMBOL	ALPHA		PARAMETRIC VALUES		
□	0.000	MACH	0.259	BETA	0.000
□	4.000	RUDDER	0.000	FLAPS	0.000
◇	8.000	SPOILR	0.000	ENGINE	13.000
△	12.000				

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
○	- 30.000
□	- 20.000
◇	- 10.000
△	0.000

PARAMETRIC VALUES

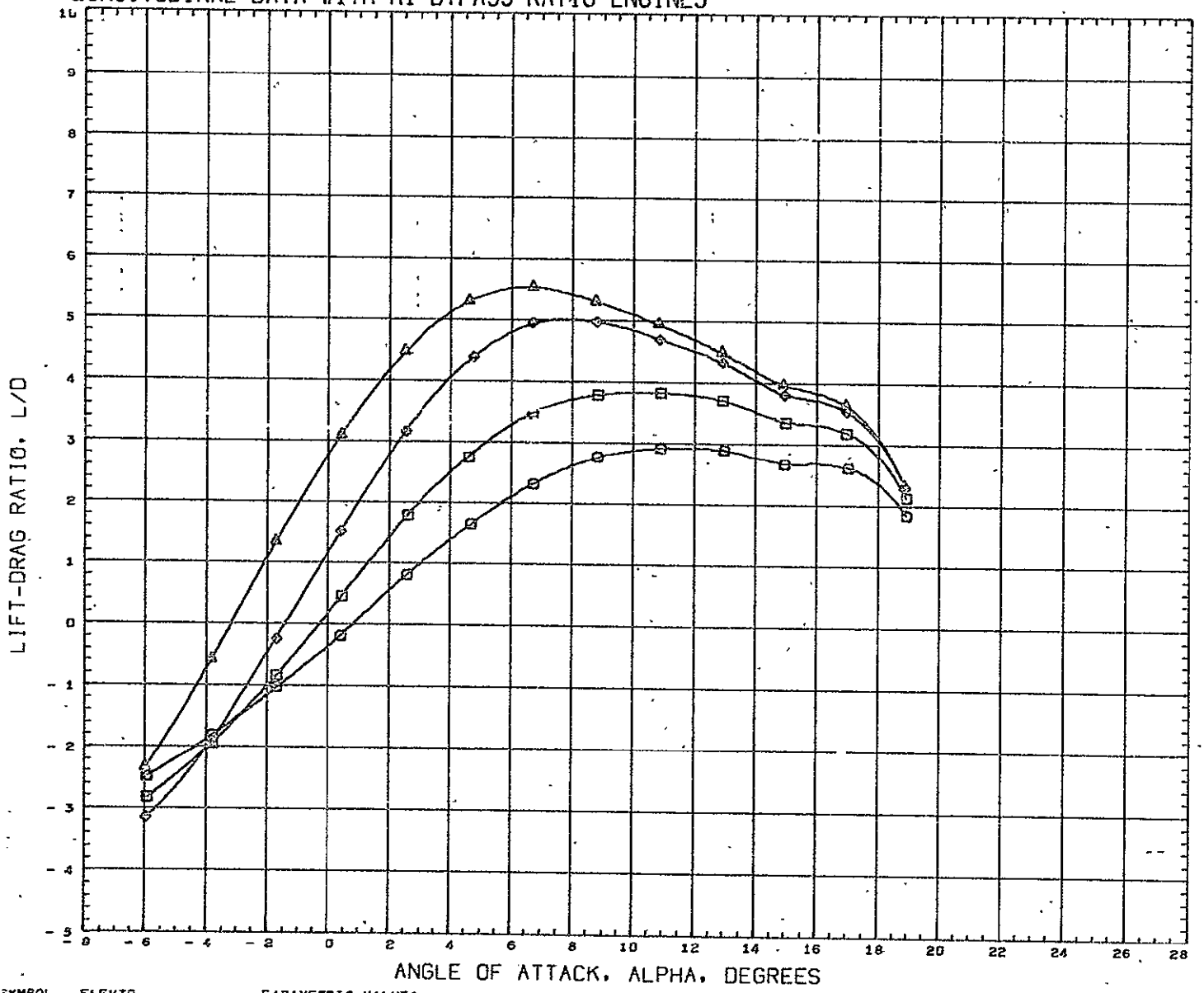
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	26.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
○	- 30.000
□	- 20.000
◇	- 10.000
△	0.000

PARAMETRIC VALUES

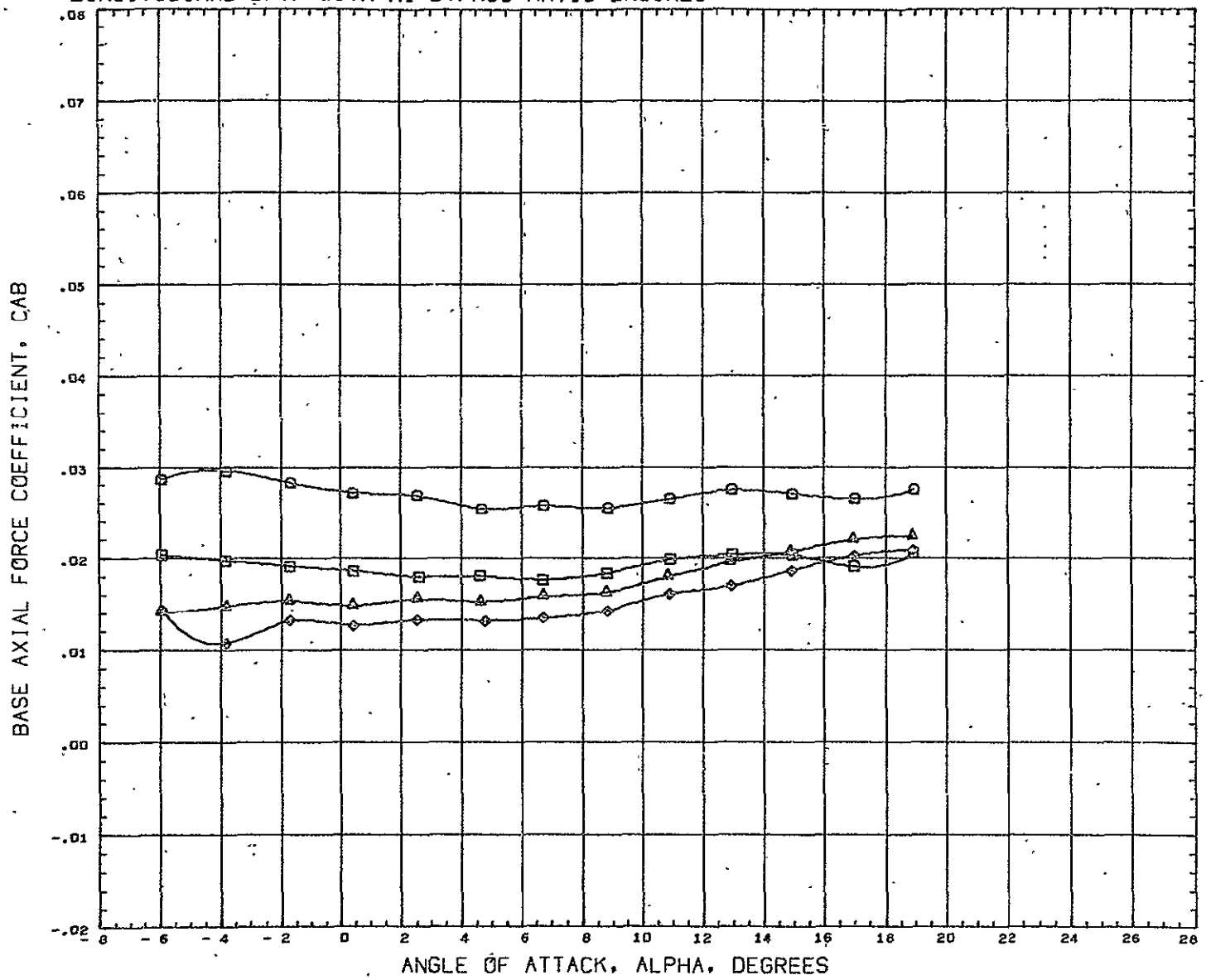
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	26.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

REFERENCE FILE CONVAIR IN7D-AE-12

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
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□	- 20.000
◇	- 10.000
△	0.000

PARAMETRIC VALUES

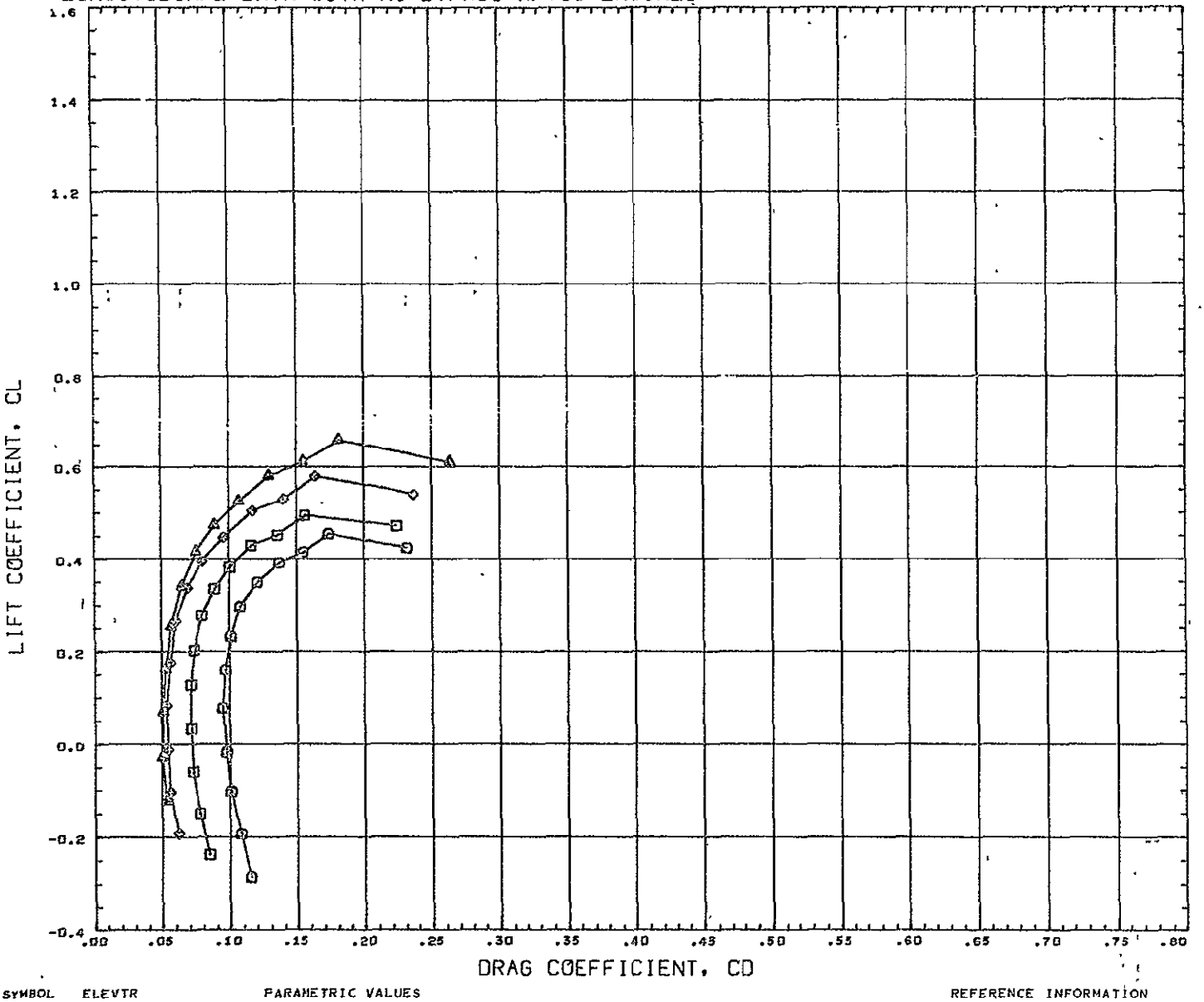
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	26.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

REFERENCE FILE CONVAIR TN70-AE-12

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
□	- 30.000
□	- 20.000
◇	- 10.000
△	0.000

PARAMETRIC VALUES

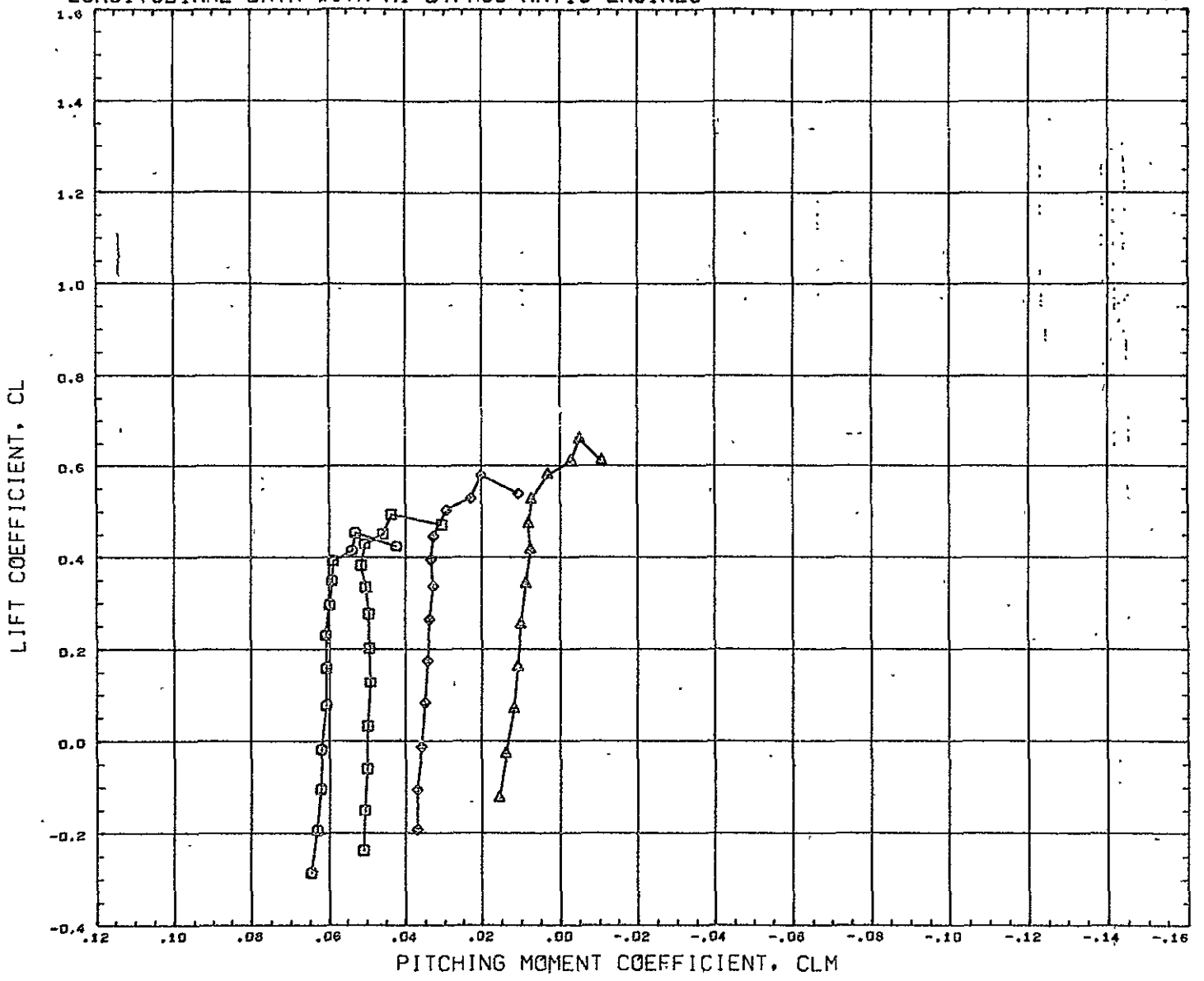
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	26.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

REFERENCE FILE CONVAIR TN70-AE-12

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
□,○	- 30.000
□	- 20.000
◇	- 10.000
△	0.000

PARAMETRIC VALUES

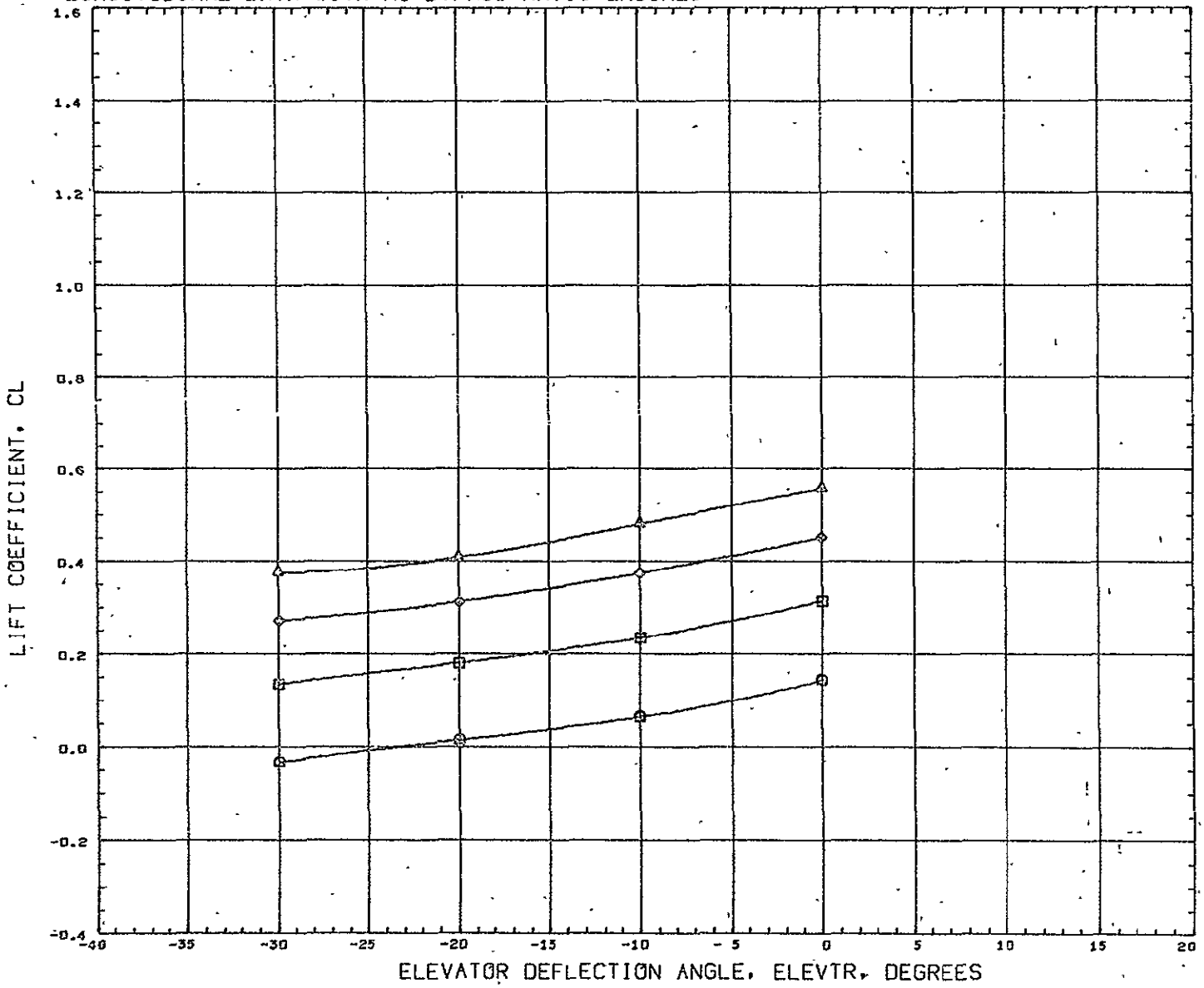
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	26.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



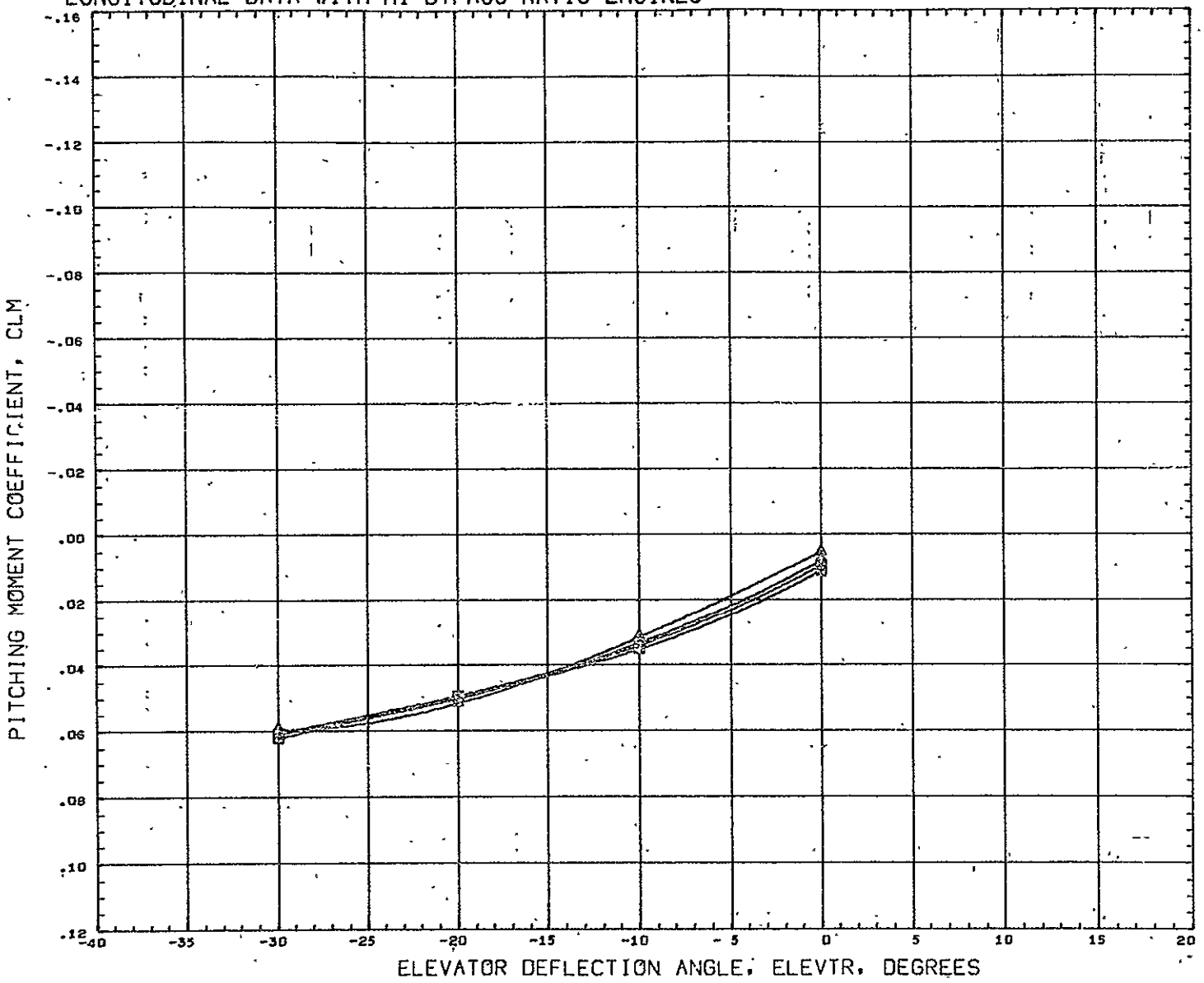
SYMBOL	ALPHA		PARAMETRIC VALUES		
○	0.000	MACH	0.259	BETA	0.000
□	4.000	RUDDER	0.000	FLAPS	0.000
◇	8.000	SPOILR	0.000	ENGINE	26.000
△	12.000				

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



SYMBOL	ALPHA
○	0.000
□	4.000
◇	8.000
△	12.000

PARAMETRIC VALUES

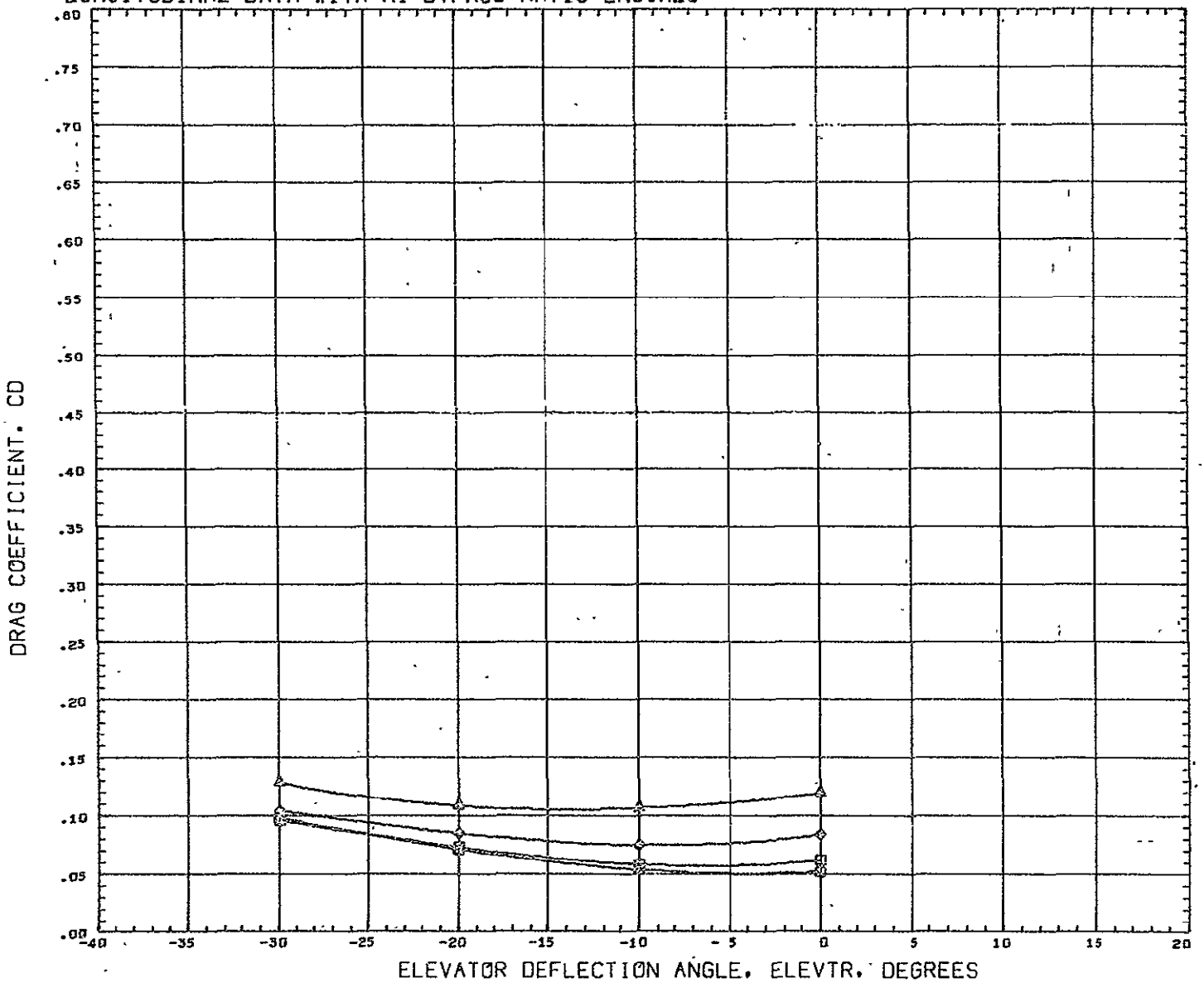
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	26.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

DATA HIST. CODE I

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



SYMBOL	ALPHA		PARAMETRIC VALUES		
○	0.000	MACH	0.259	BETA	0.000
□	4.000	RUDDER	0.000	FLAPS	0.000
◇	8.000	SPOILR	0.000	ENGINE	26.000
△	12.000				

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
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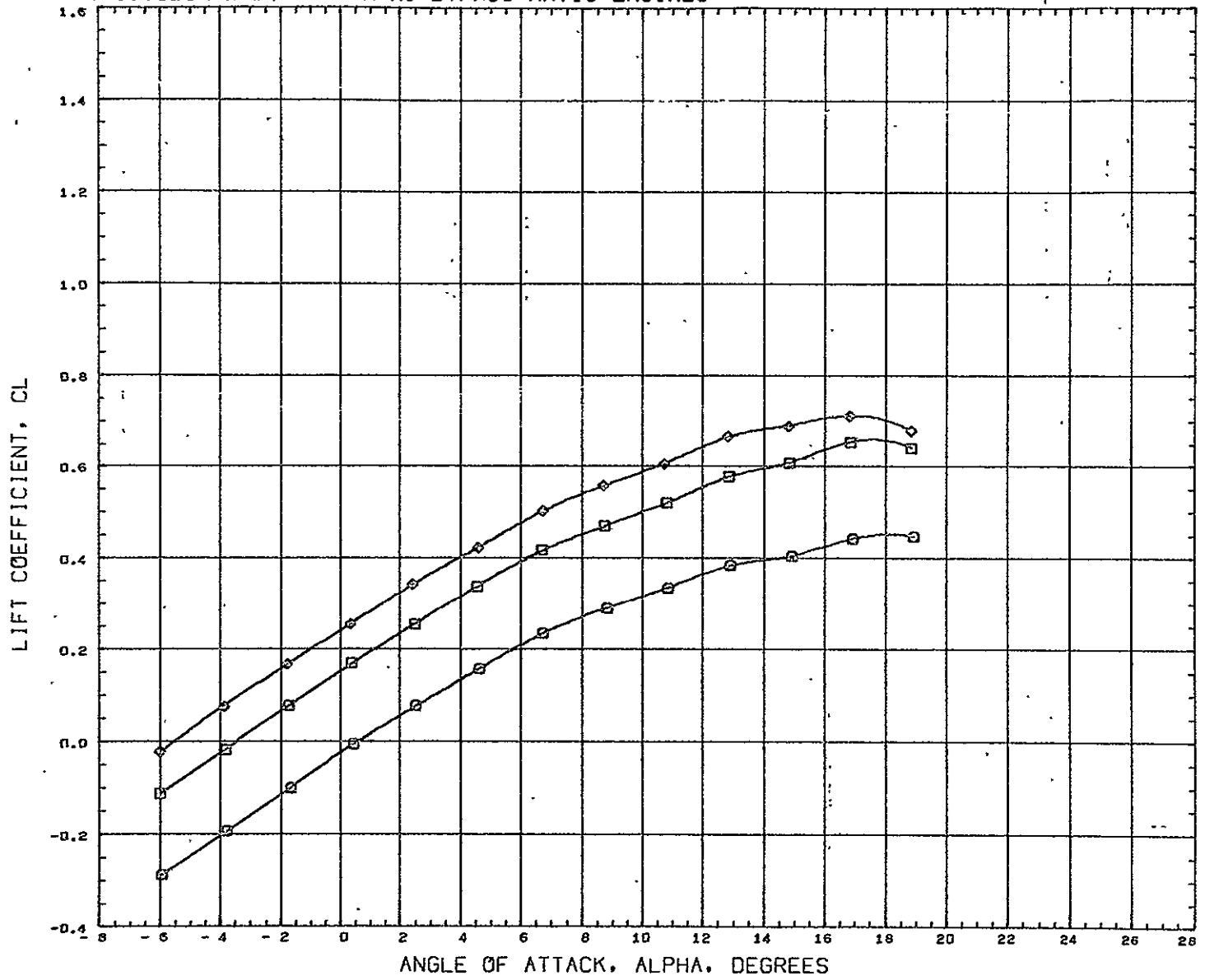
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES

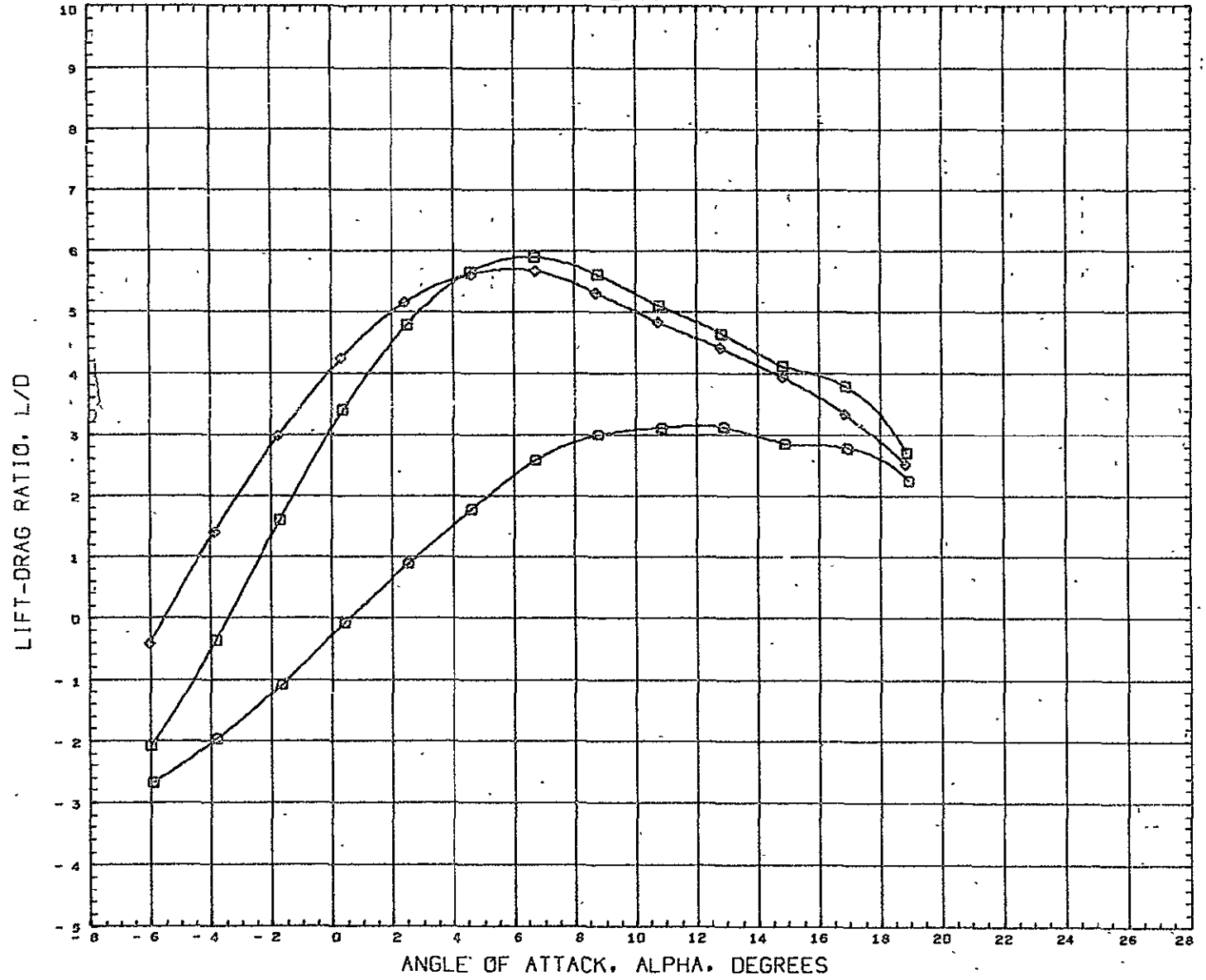


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	-30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



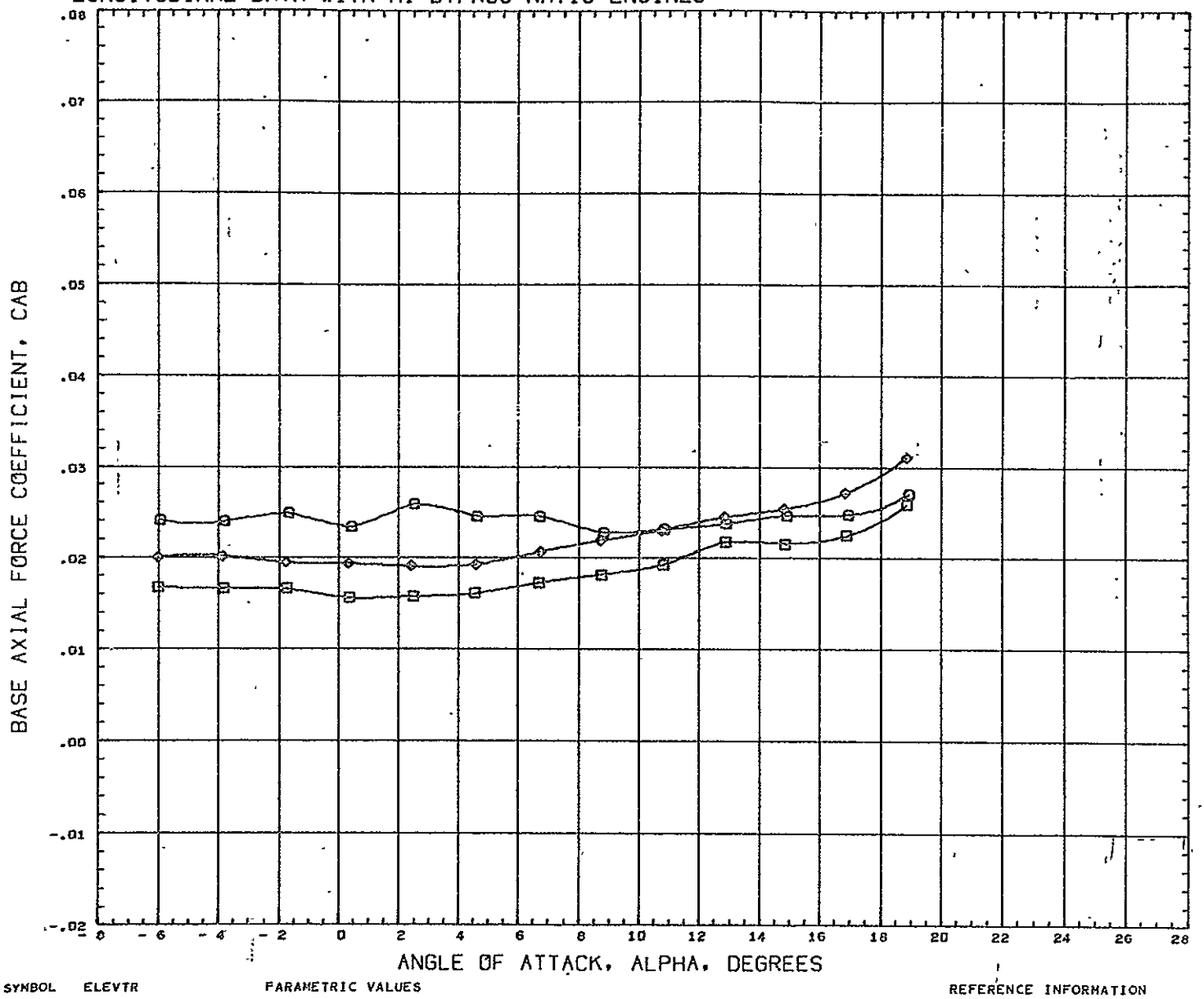
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	-30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



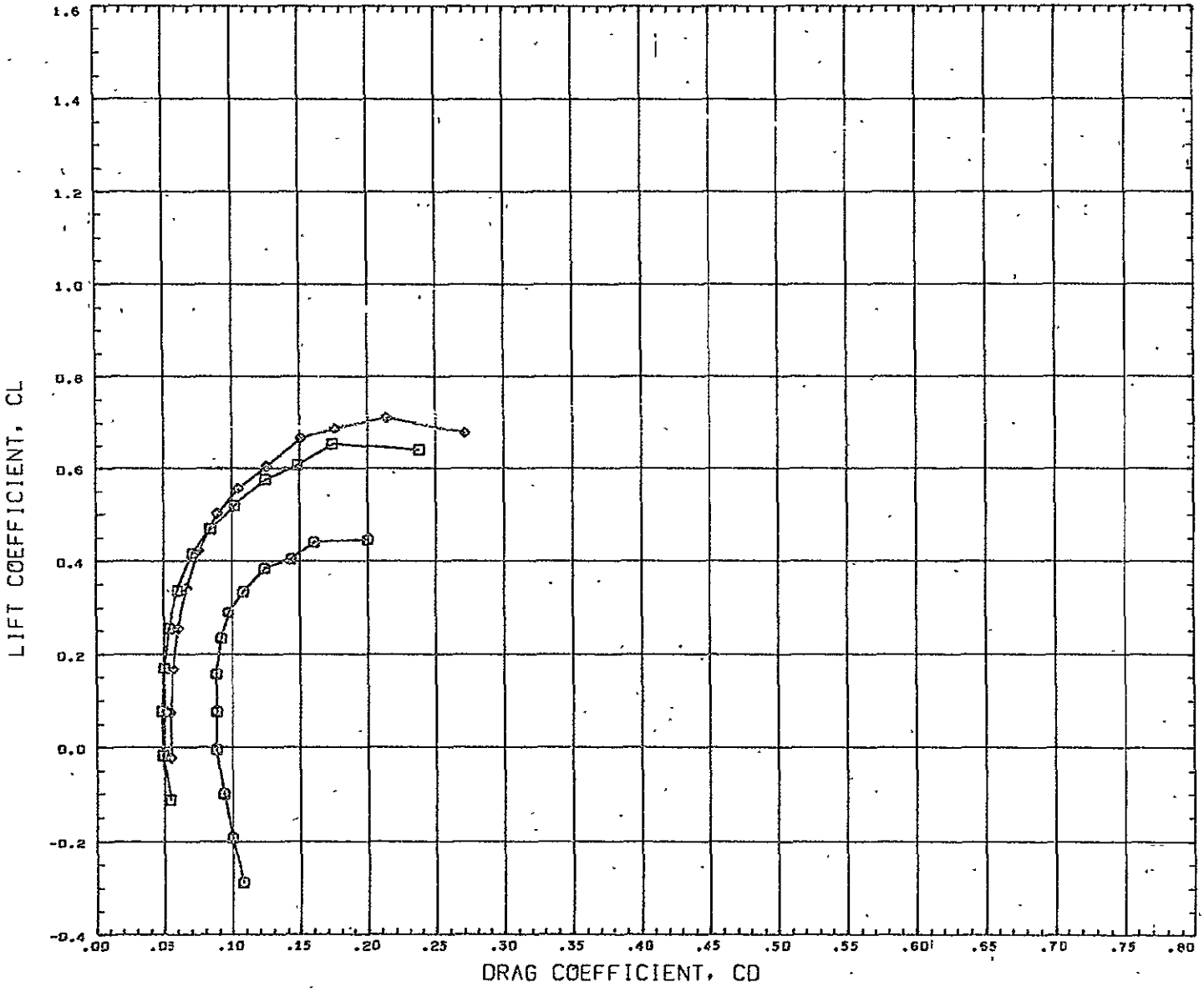
SYMBOL	ELEVTR	PARAMETRIC VALUES			
□	-30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES

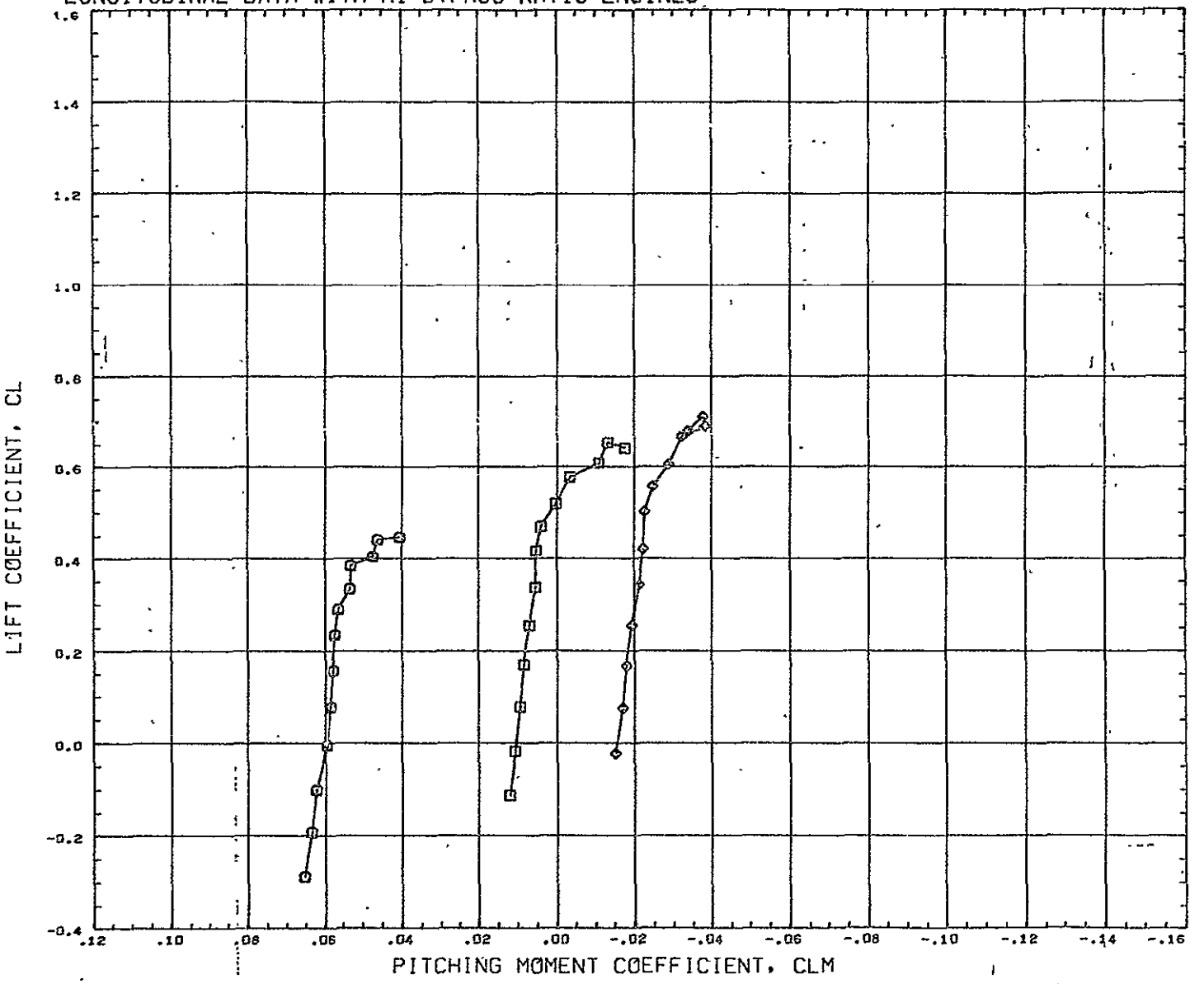


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES

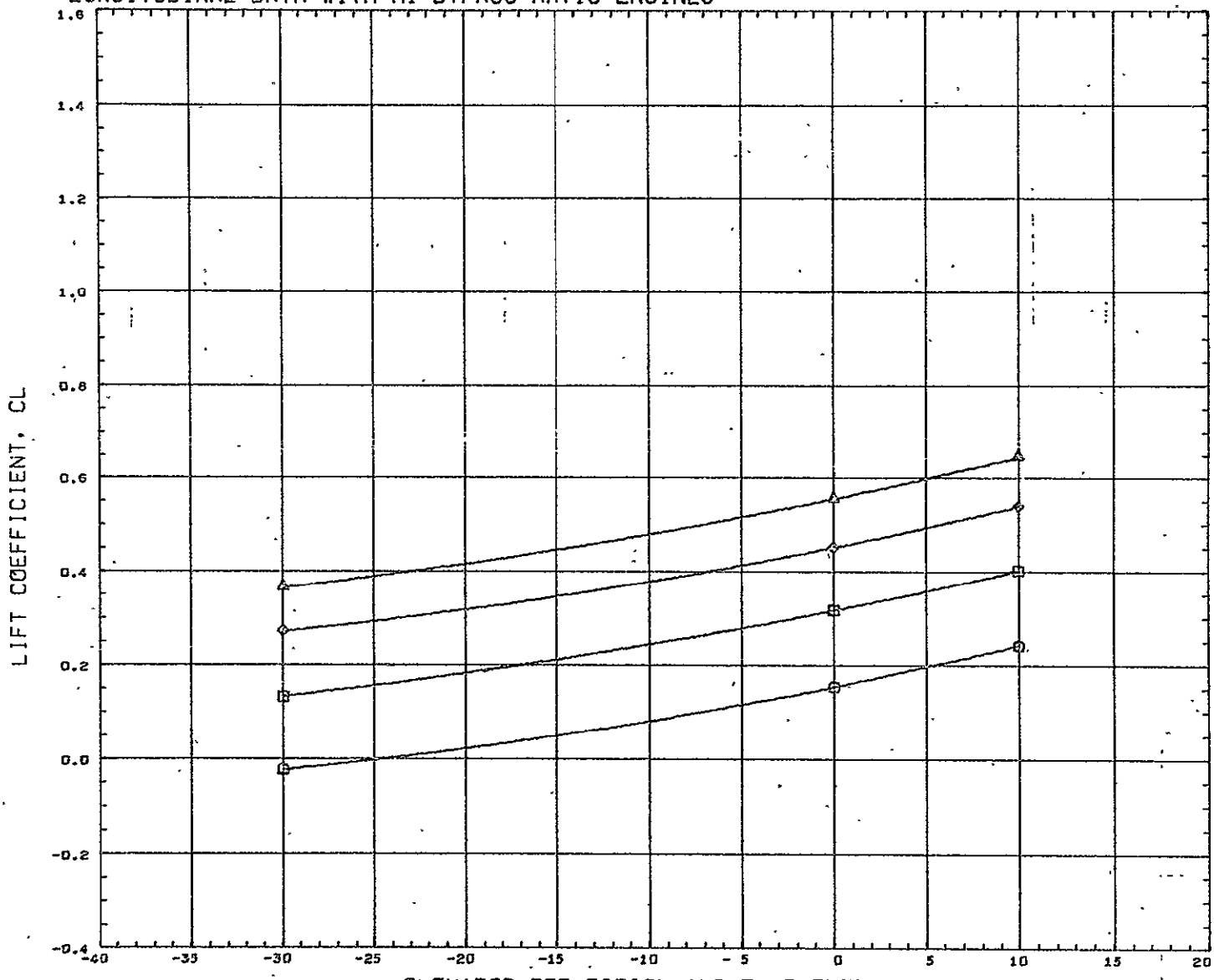


SYMBOL	ELEVTR	PARAMETRIC VALUES				
○	- 30.000	MACH	:	0.259	BETA	0.000
□	0.000	RUDDER		0.000	FLAPS	0.000
◇	10.000	SPOILR		0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



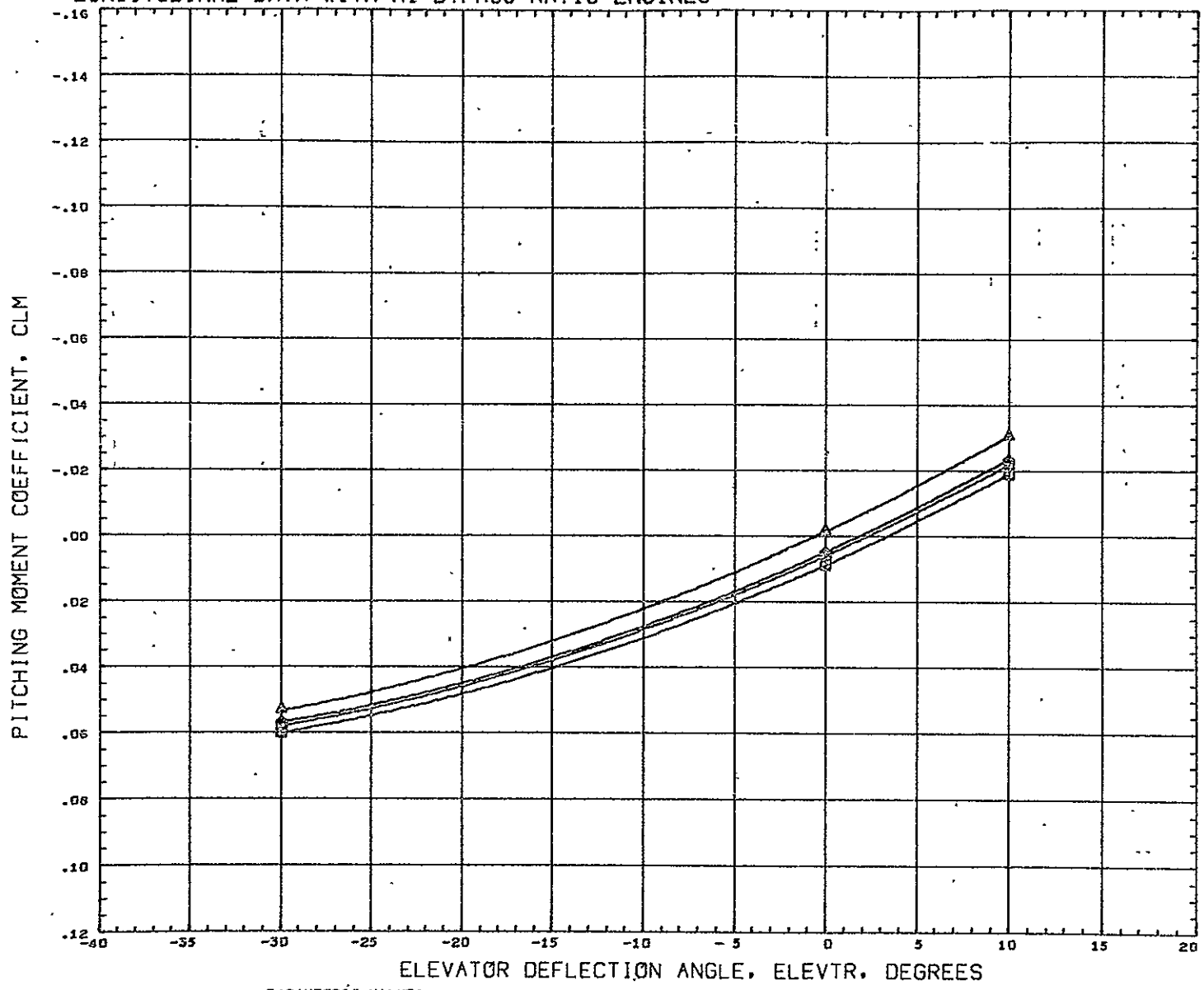
SYMBOL	ALPHA		PARAMETRIC VALUES		
○	0.000	MACH	0.259	BETA	0.000
□	4.000	RUDDER	0.000	FLAPS	0.000
◇	8.000	SPOILR	0.000	ENGINE	28.000
△	12.000				

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

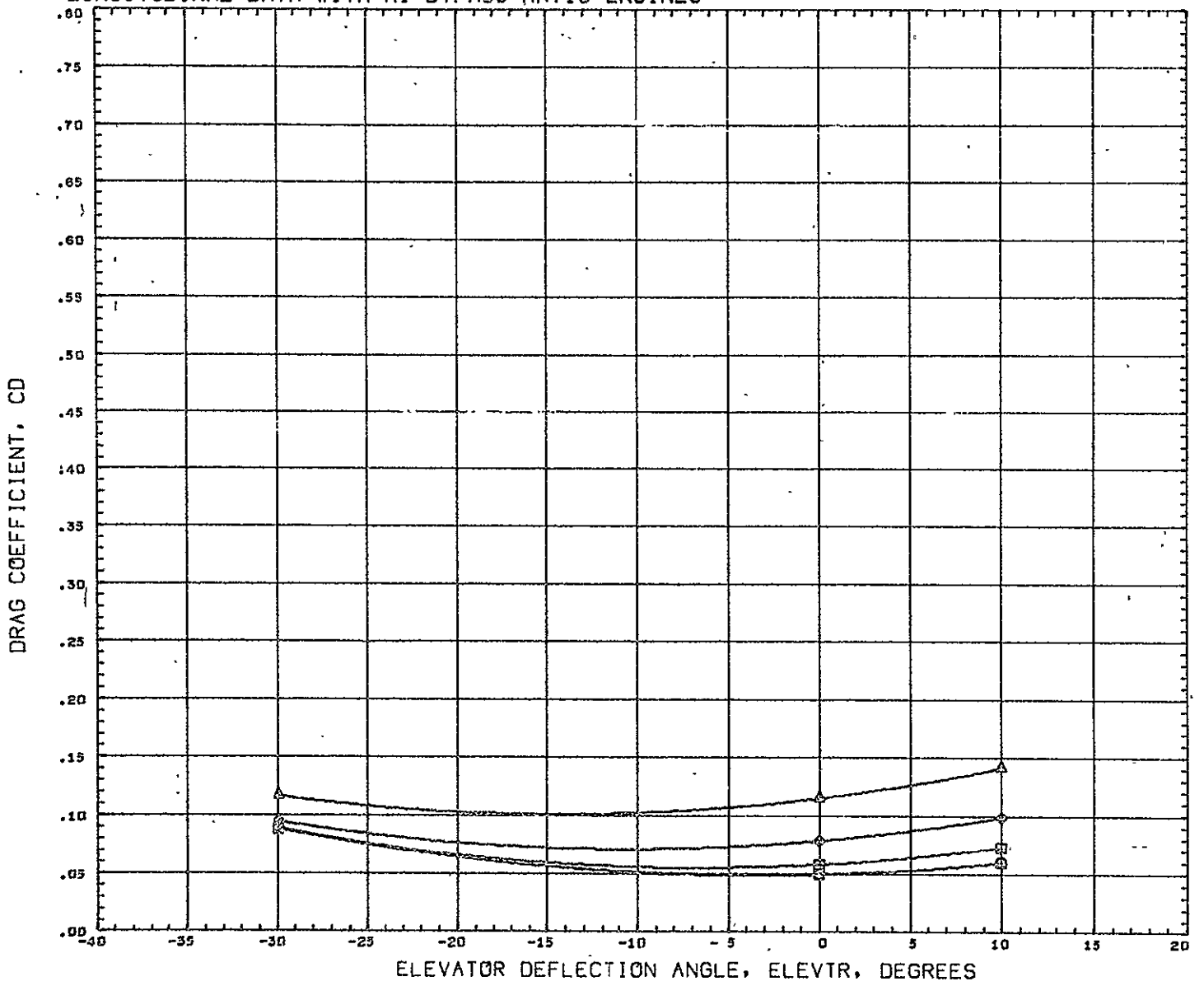
LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



SYMBOL	ALPHA	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	0.000	MACH	0.259	BETA	0.000	REFS	316.2304	SQ IN
□	4.000	RUDDER	0.000	FLAPS	0.000	REFL	50.1900	IN
◇	8.000	SPOILR	0.000	ENGINE	28.000	REFB	7.3500	IN
△	12.000					XMRP	29.3920	IN
						YMRP	0.0000	IN
						ZMRP	0.0000	IN
						SCALE	0.0175	

DATA HIST. CODE I

LONGITUDINAL DATA WITH HI-BYPASS RATIO ENGINES



SYMBOL	ALPHA
○	0.000
□	4.000
◇	8.000
△	12.000

PARAMETRIC VALUES

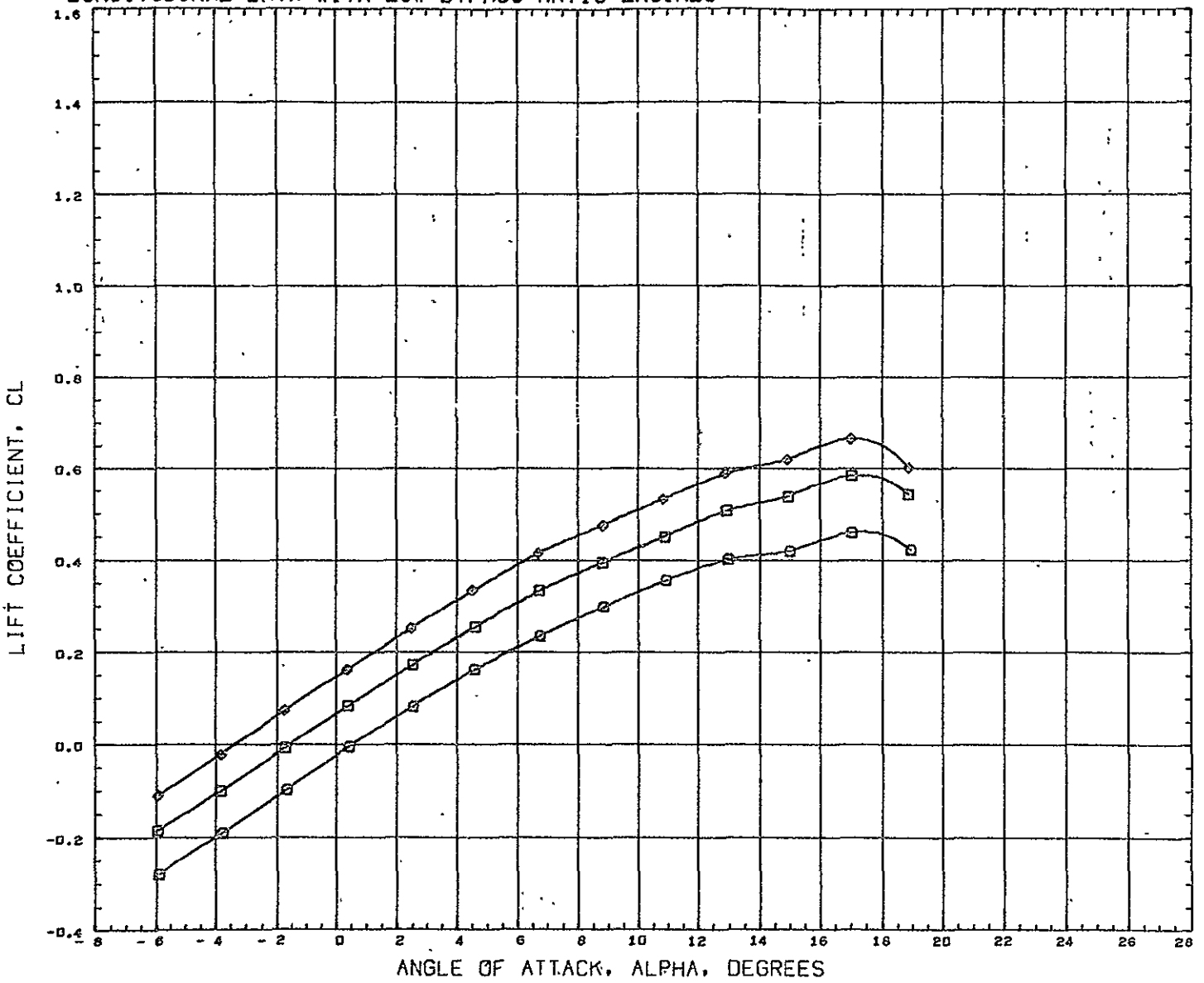
MACH	0.259	BETA	0.000	
RUDDER	0.000	FLAPS	0.000	
SPOILR	0.000	ENGINE	28.000	

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

DATA HIST. CODE I

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES

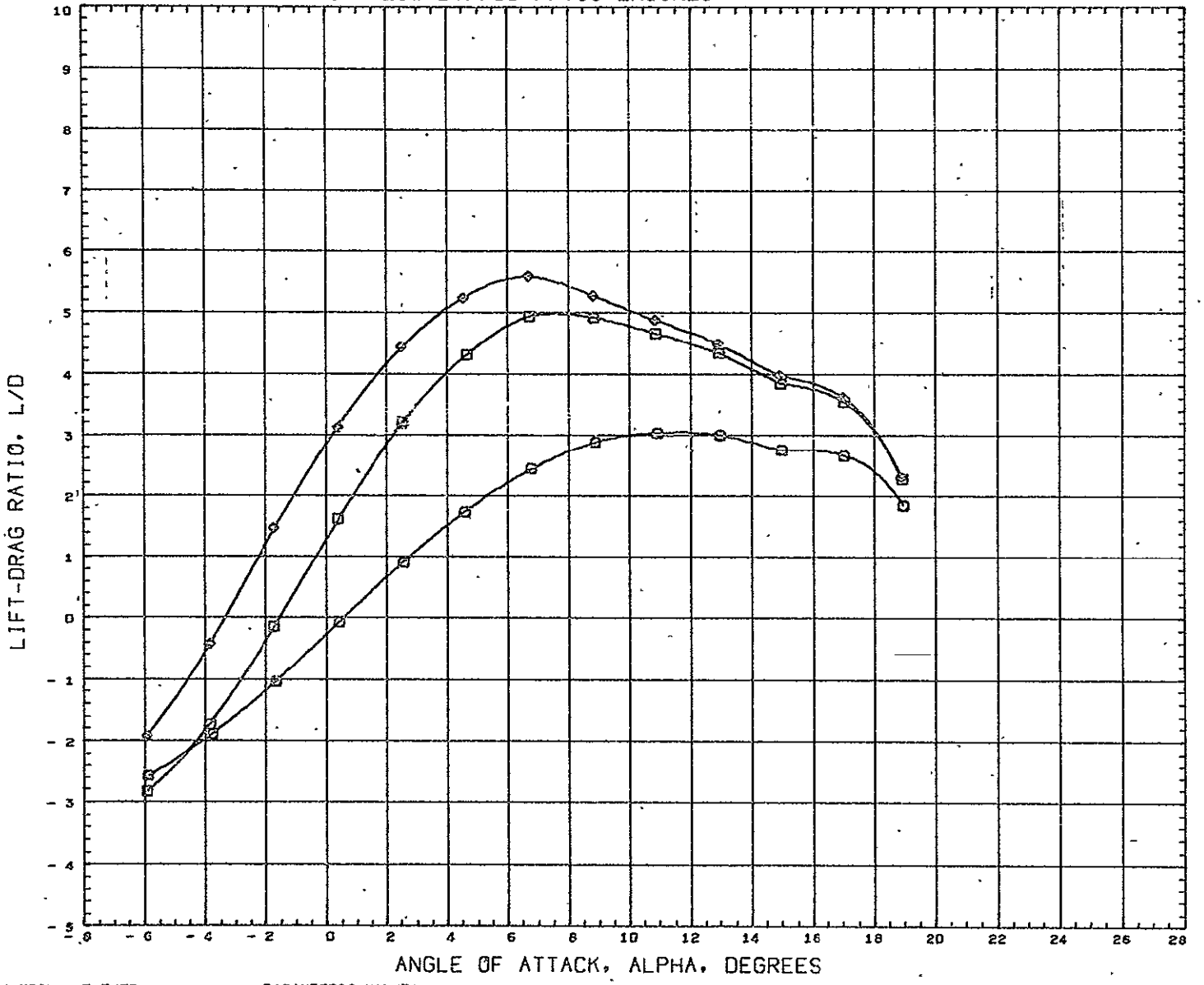


SYMBOL	ELEVTR		PARAMETRIC VALUES		
⊙	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES



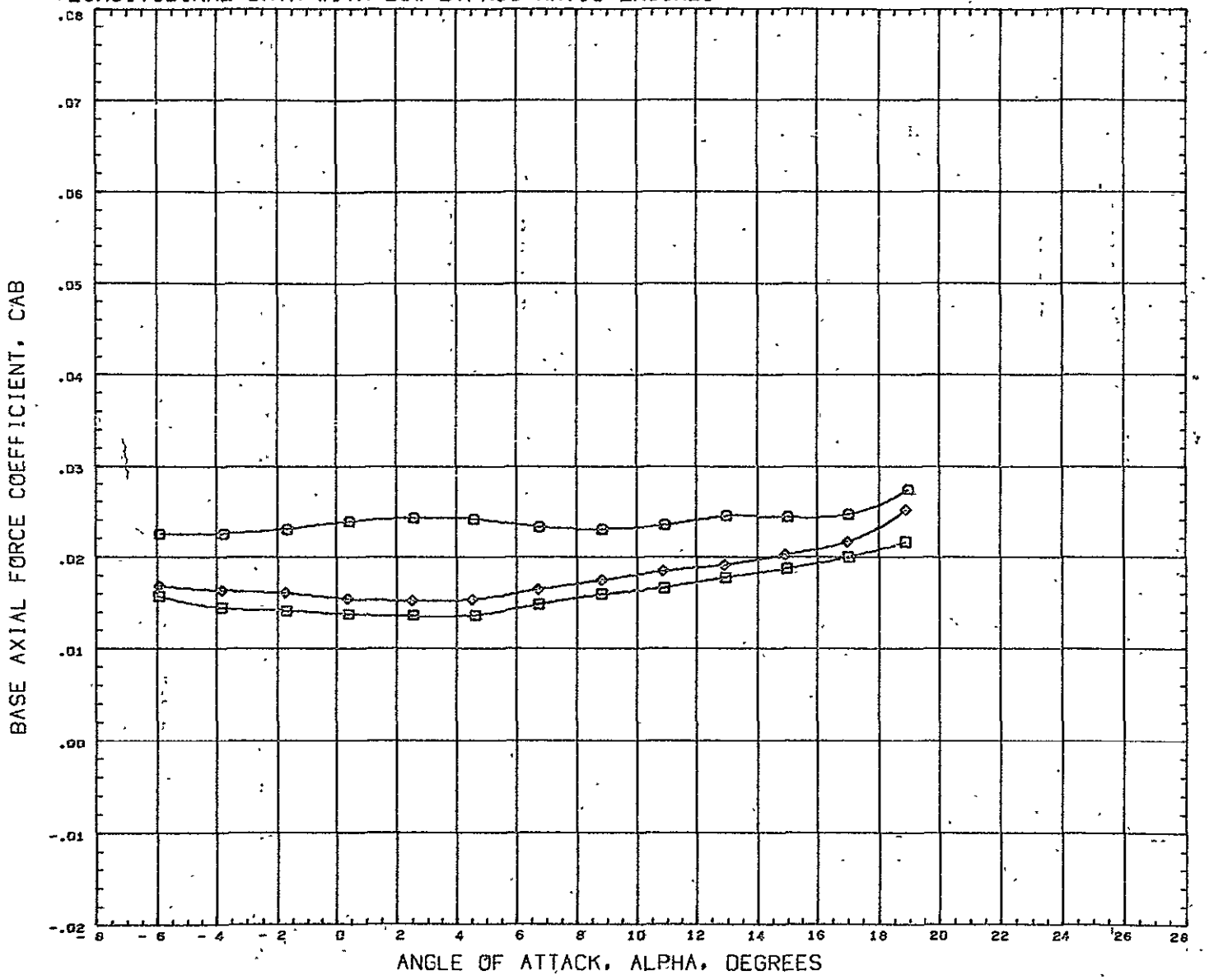
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES

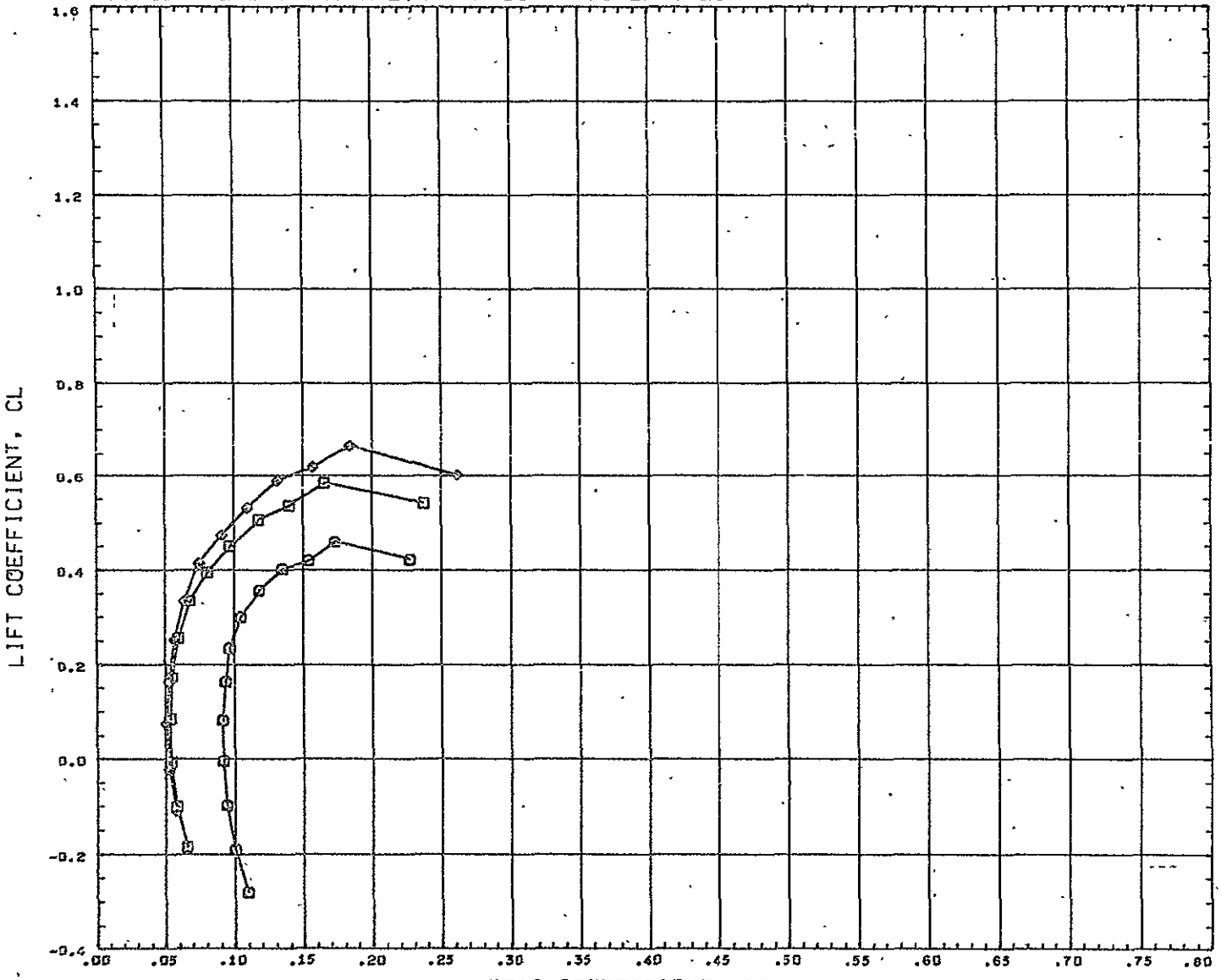


SYMBOL	ELEVTR	PARAMETRIC VALUES			
□	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES

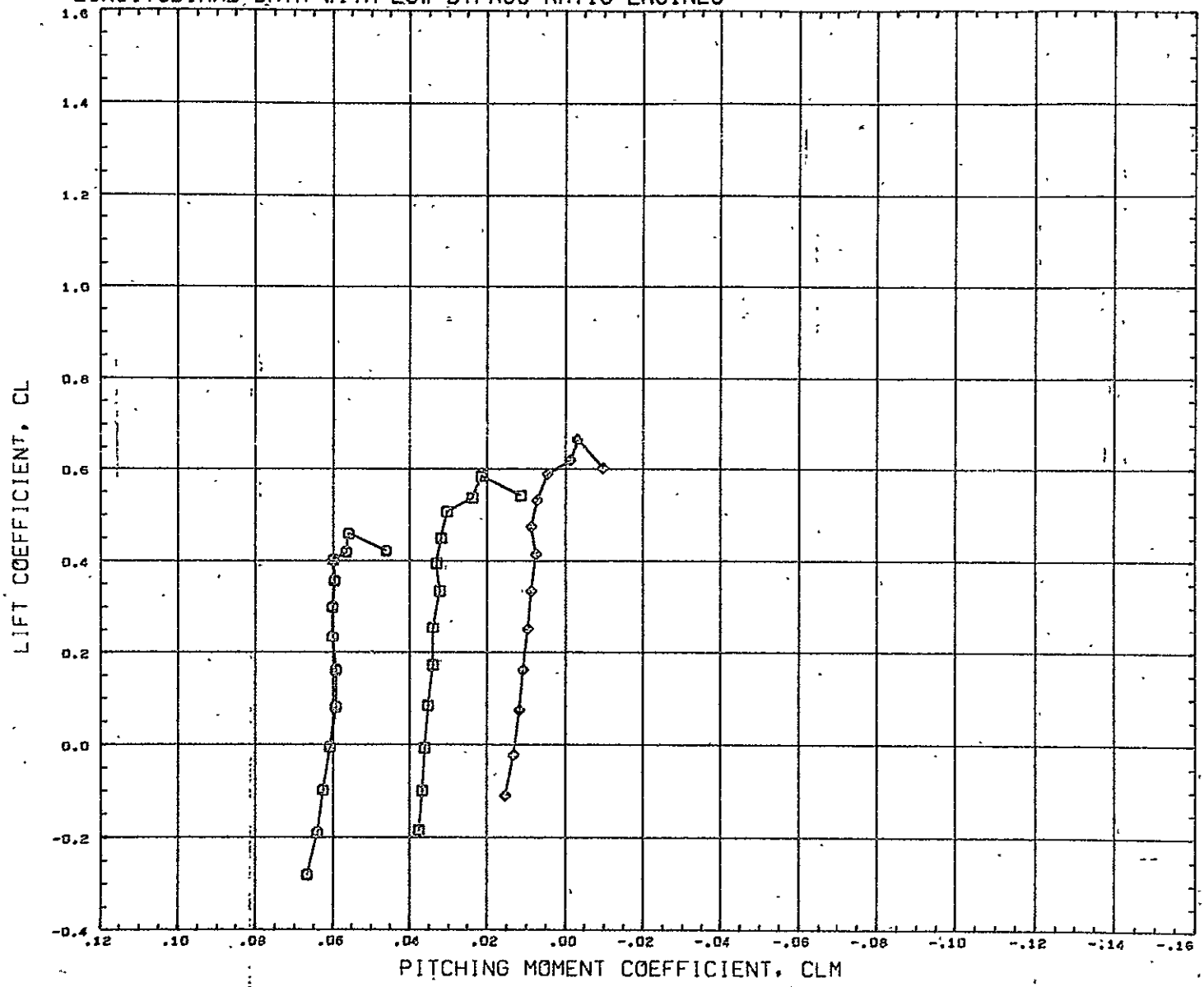


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES



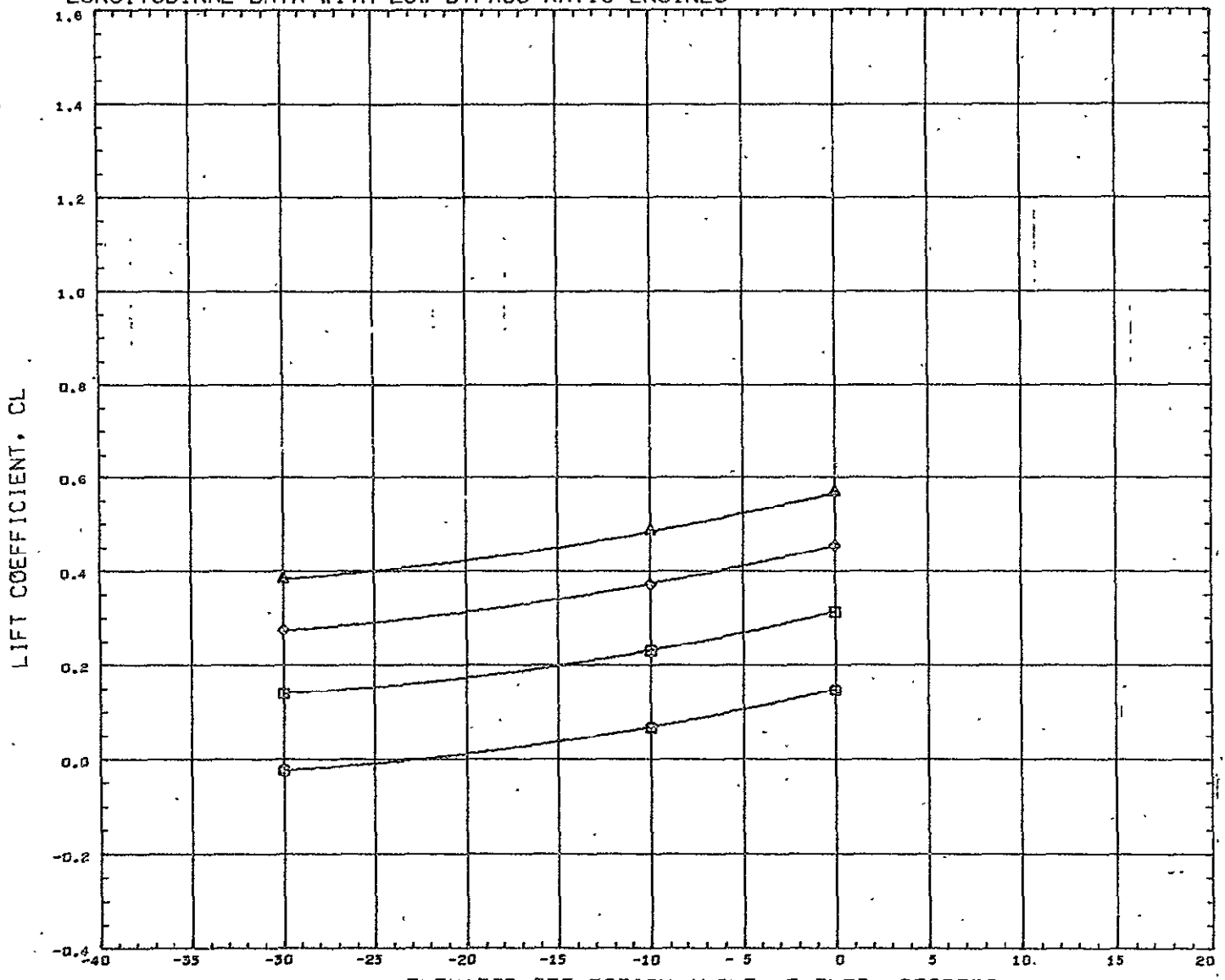
SYMBOL	ELEVTR		PARAMETRIC VALUES		
□	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES



SYMBOL	ALPHA
○	0.000
□	4.000
◇	8.000
△	12.000

PARAMETRIC VALUES

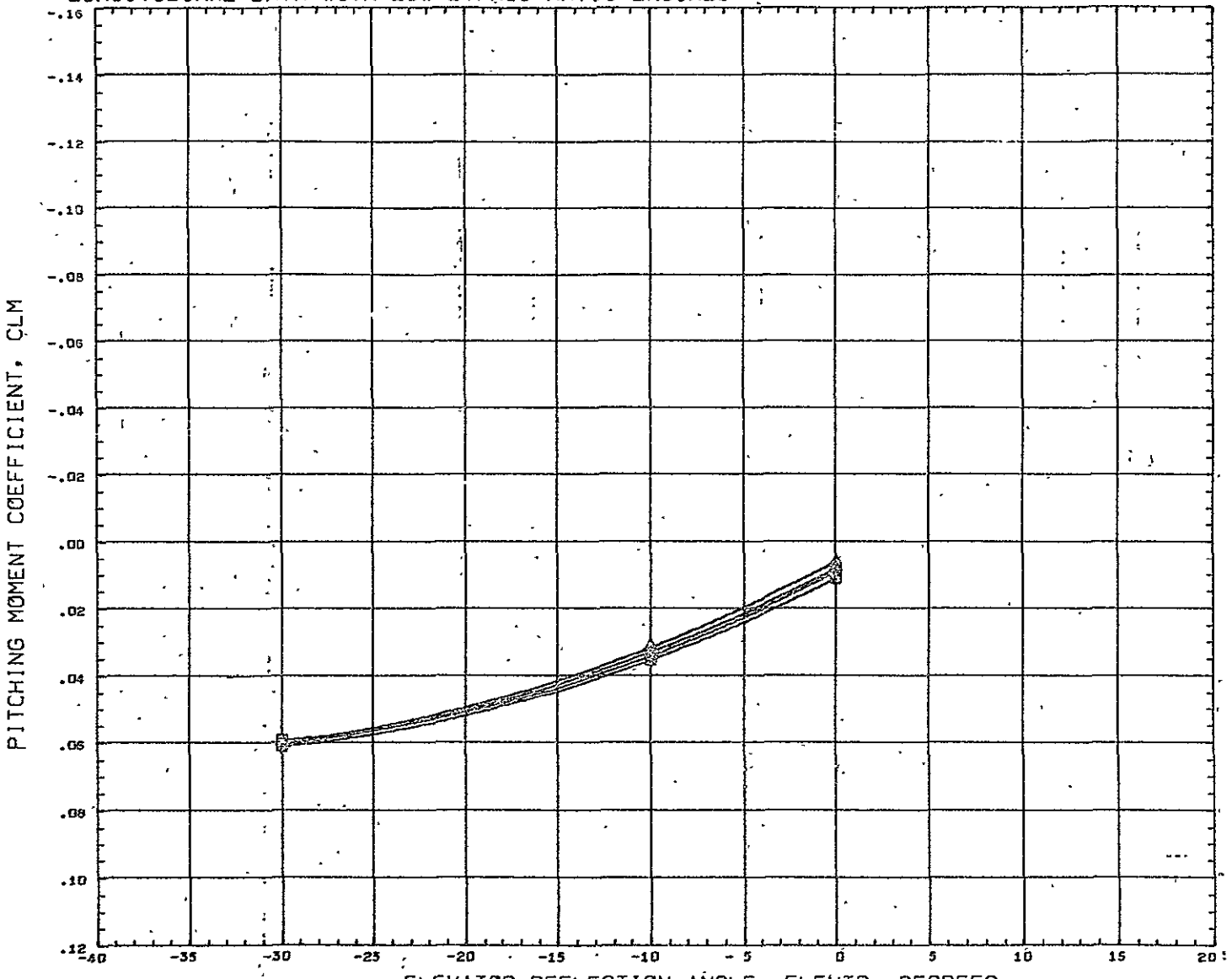
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	18.000

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES



SYMBOL	ALPHA	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	0.000	MACH	0.259	BETA	0.000	REFS	316.2304	SQ IN
□	4.000	RUDDER	0.000	FLAPS	0.000	REFL	50.1900	IN
◇	8.000	SPOILR	0.000	ENGINE	18.000	REFB	7.3500	IN
△	12.000					XMRF	29.3920	IN
						YMRF	0.0000	IN
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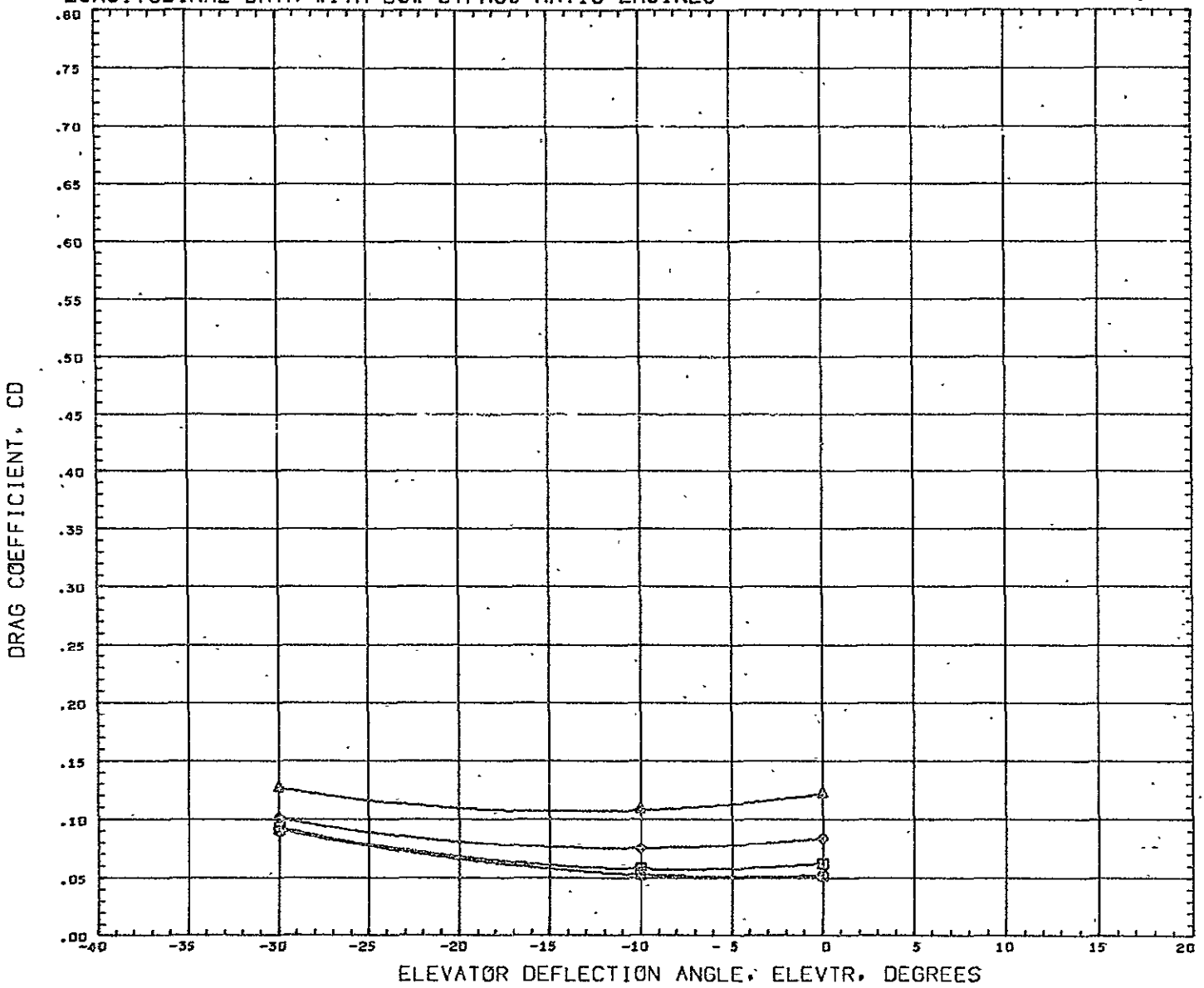
						SCALE	0.0175	

DATA HIST. CODE I

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES



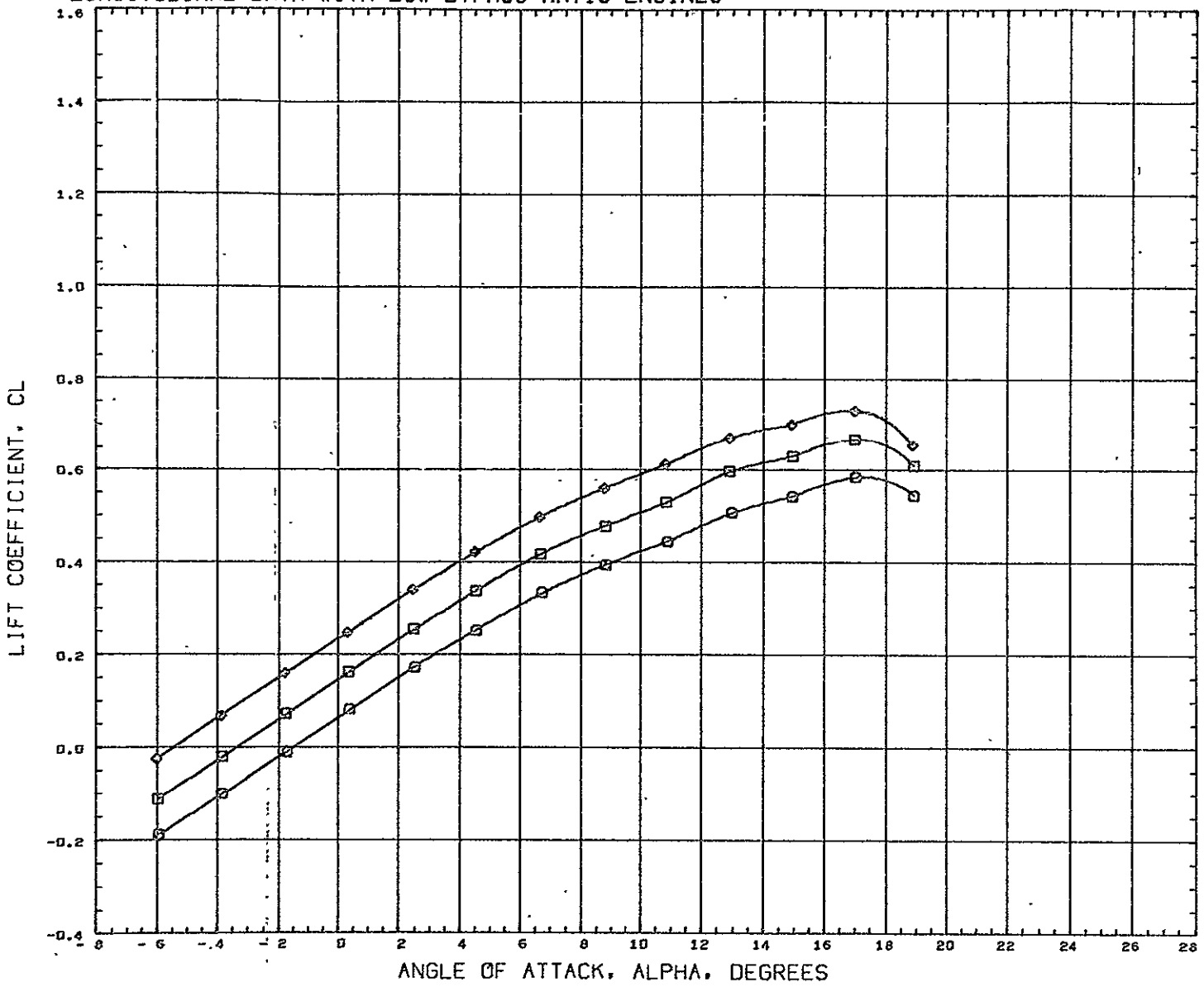
SYMBOL	ALPHA		PARAMETRIC VALUES		
○	0.000	MACH	0.259	BETA	0.000
□	4.000	RUDDER	0.000	FLAPS	0.000
◇	8.000	SPOILR	0.000	ENGINE	18.000
△	12.000				

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES

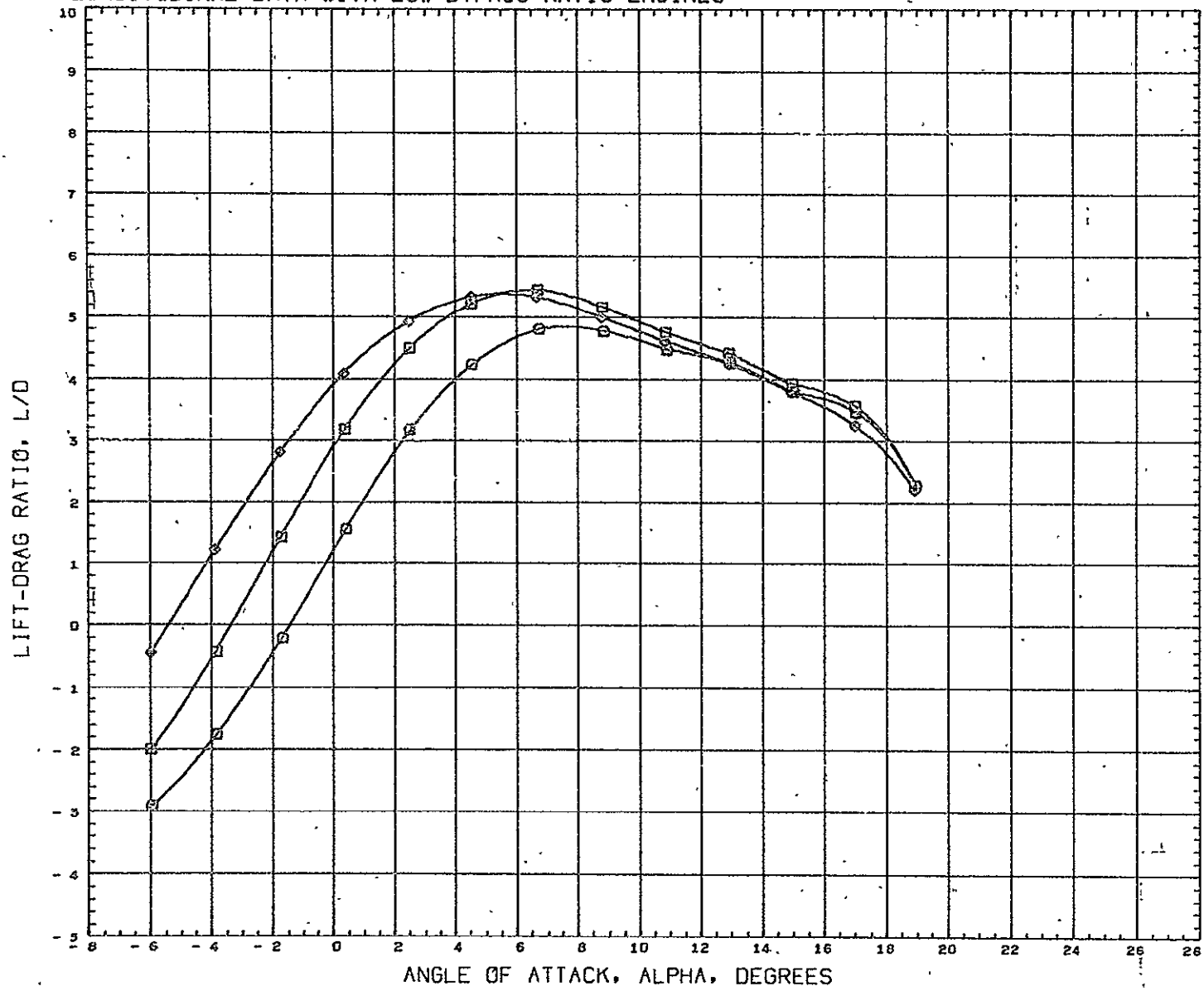


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	-10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES

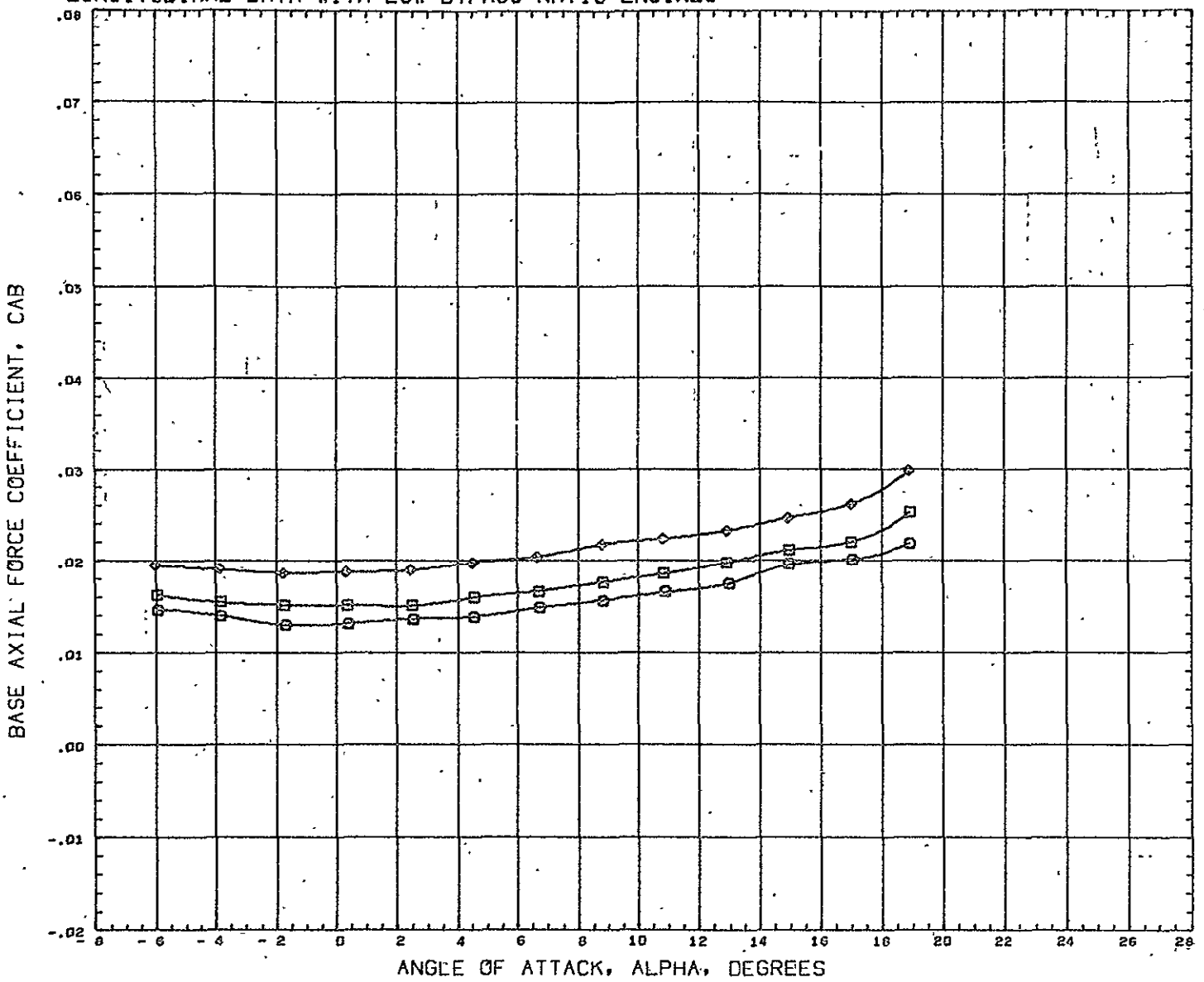


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	-10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES

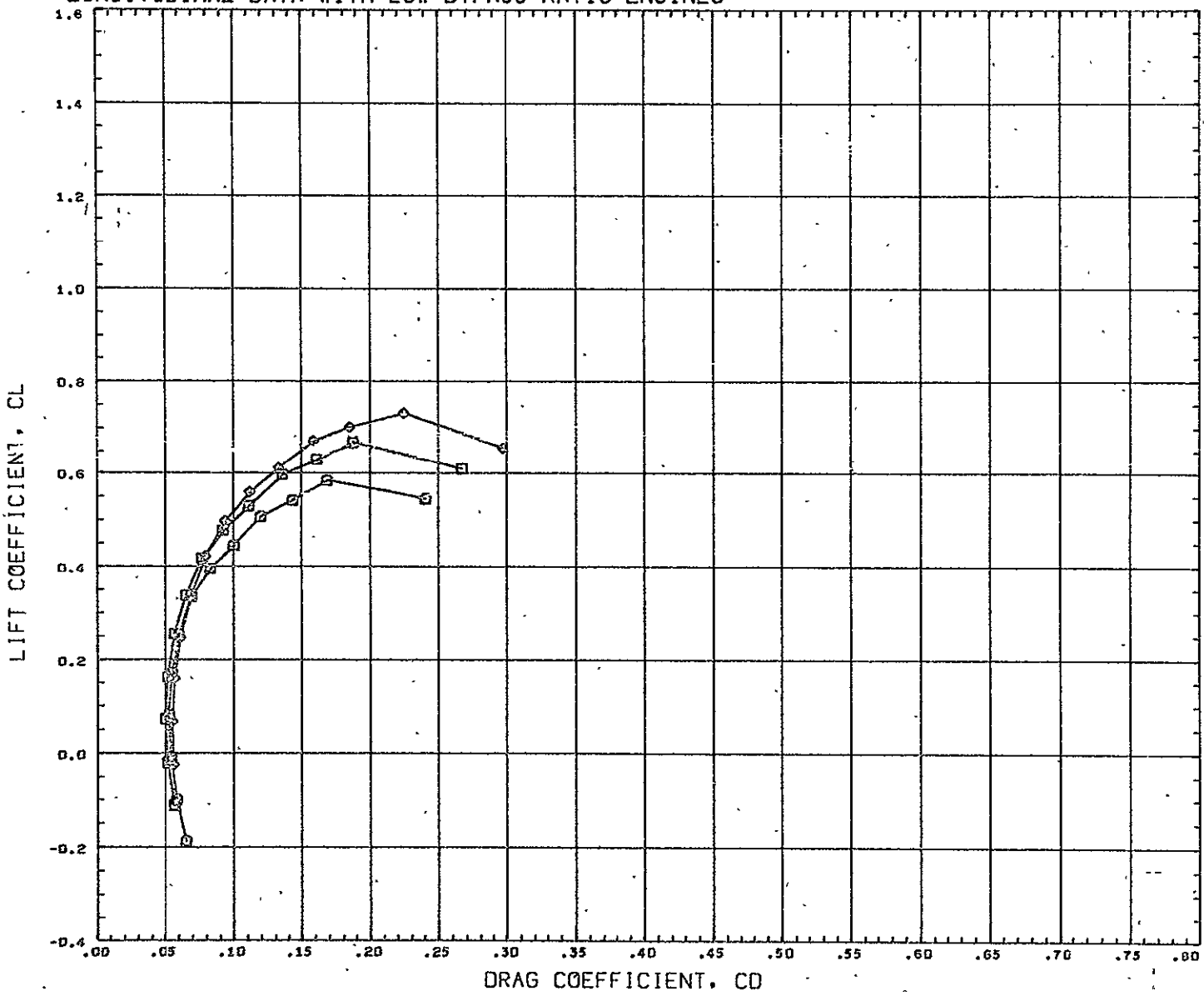


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	-10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LØNGITUDINAL DATA WITH LØW-BYPASS RATIØ ENGINES

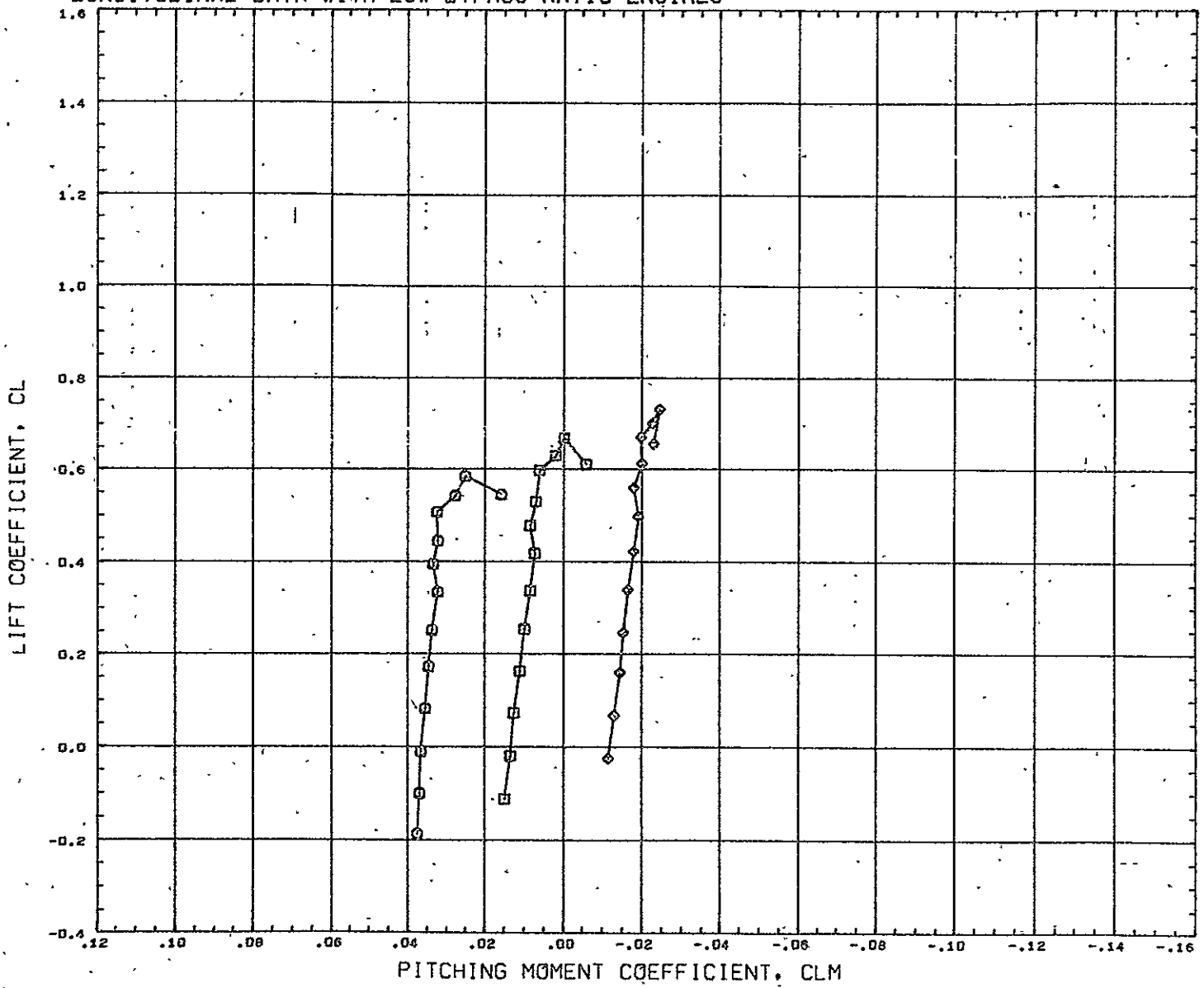


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN7D-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES

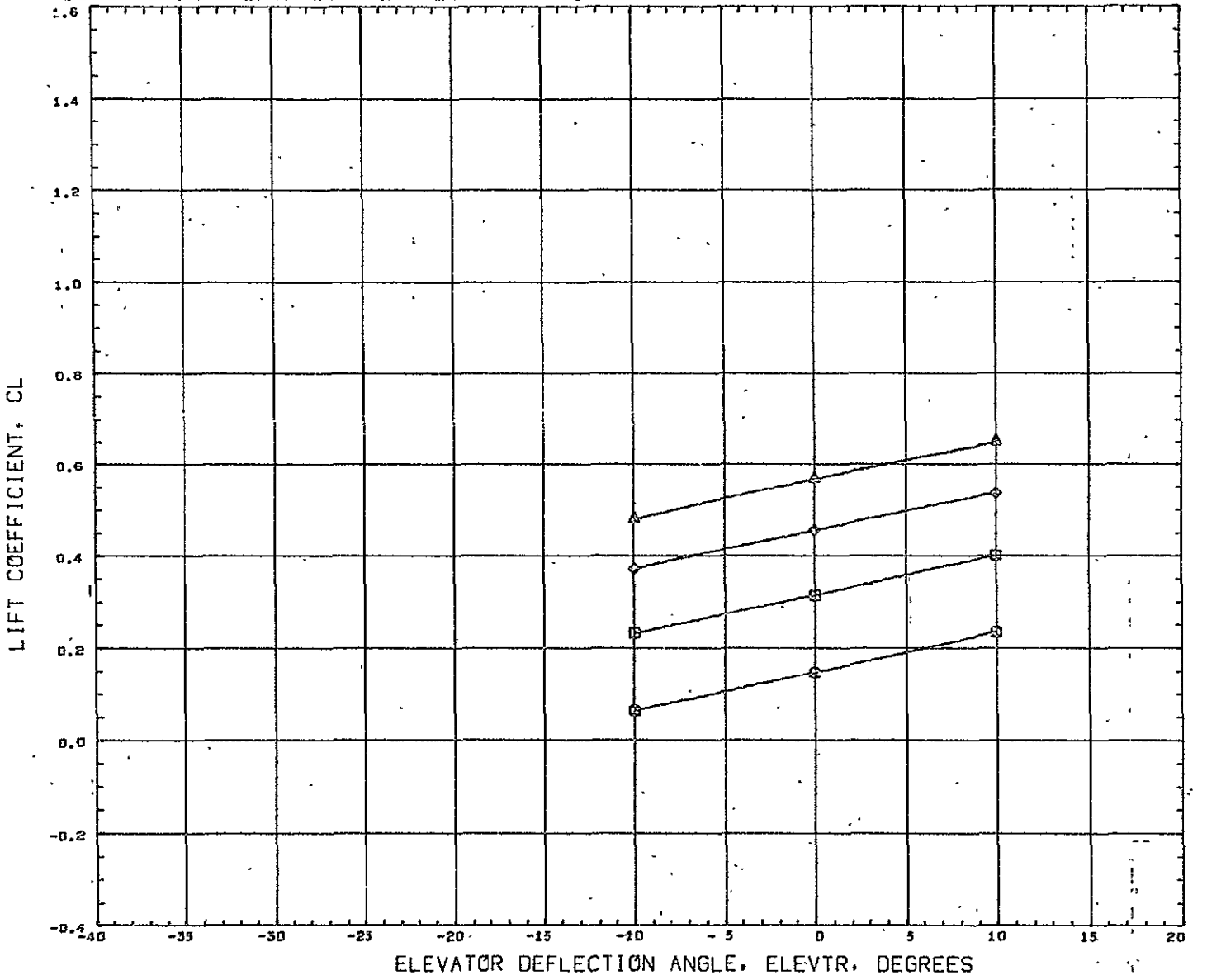


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES



SYMBOL	ALPHA
○	0.000
□	4.000
◇	8.000
△	12.000

PARAMETRIC VALUES

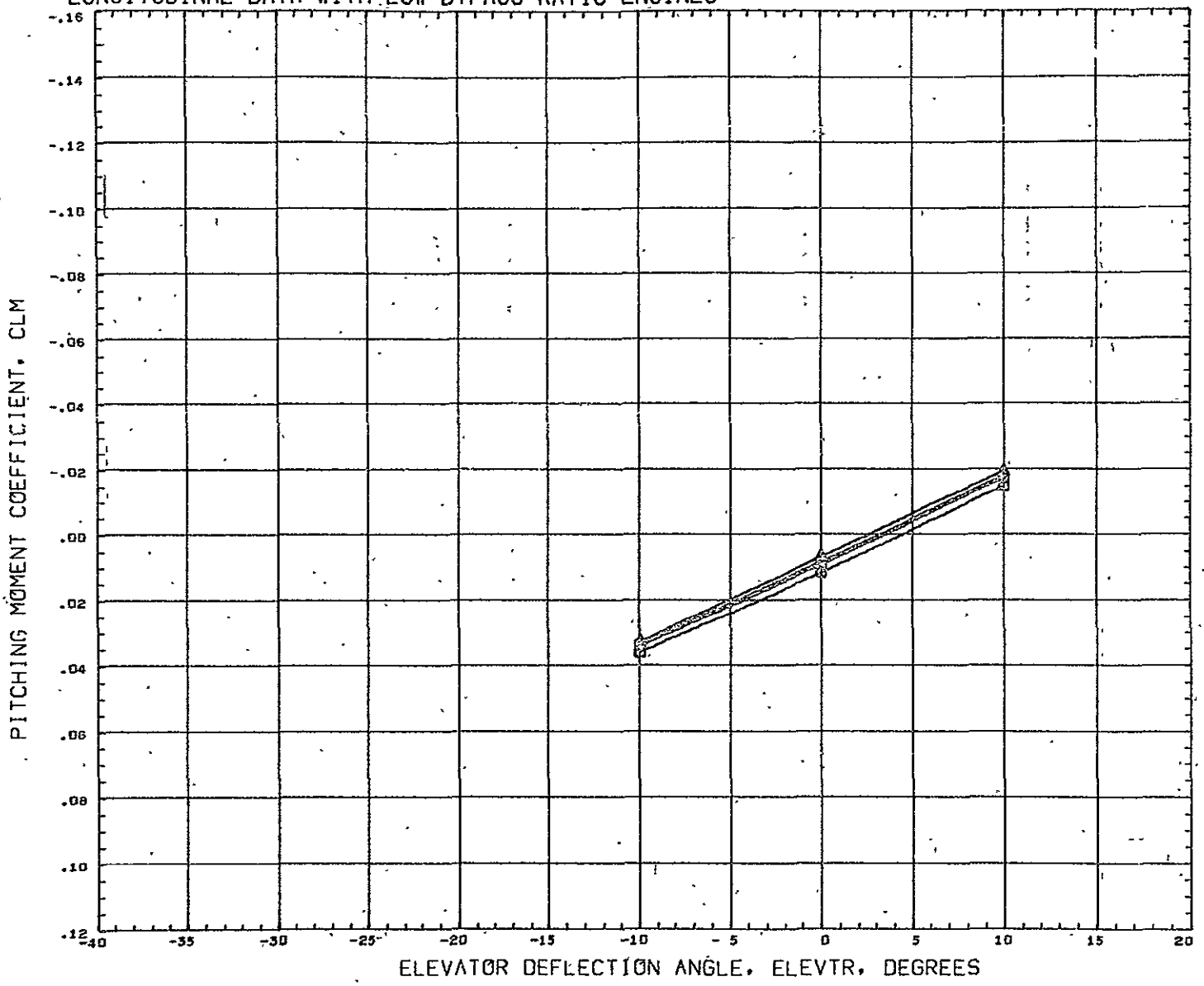
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES



SYMBOL	ALPHA
○	0.000
□	4.000
◇	8.000
△	12.000

PARAMETRIC VALUES

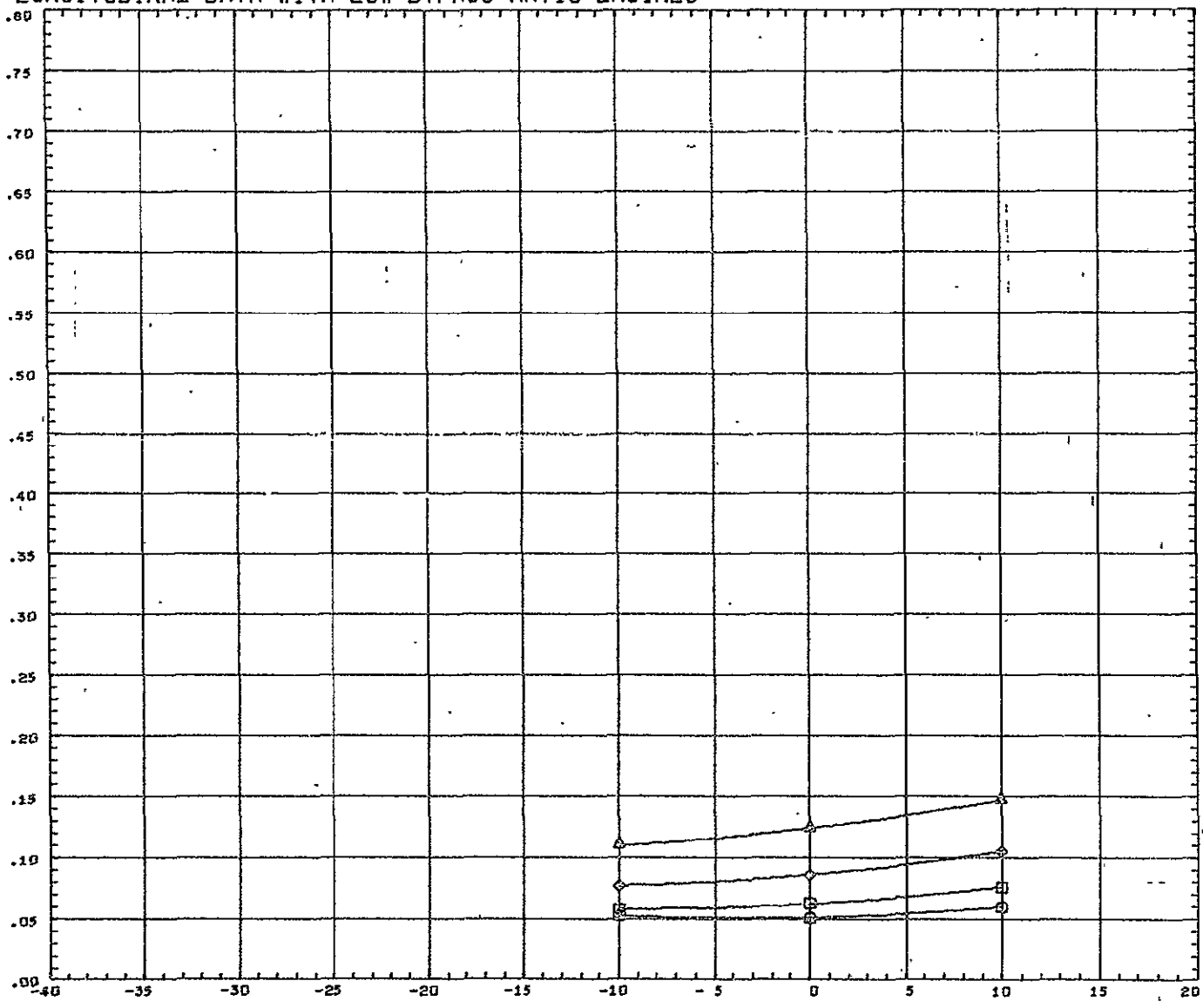
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

DATA HIST. CODE I

LONGITUDINAL DATA WITH LOW-BYPASS RATIO ENGINES



SYMBOL	ALPHA		PARAMETRIC VALUES		
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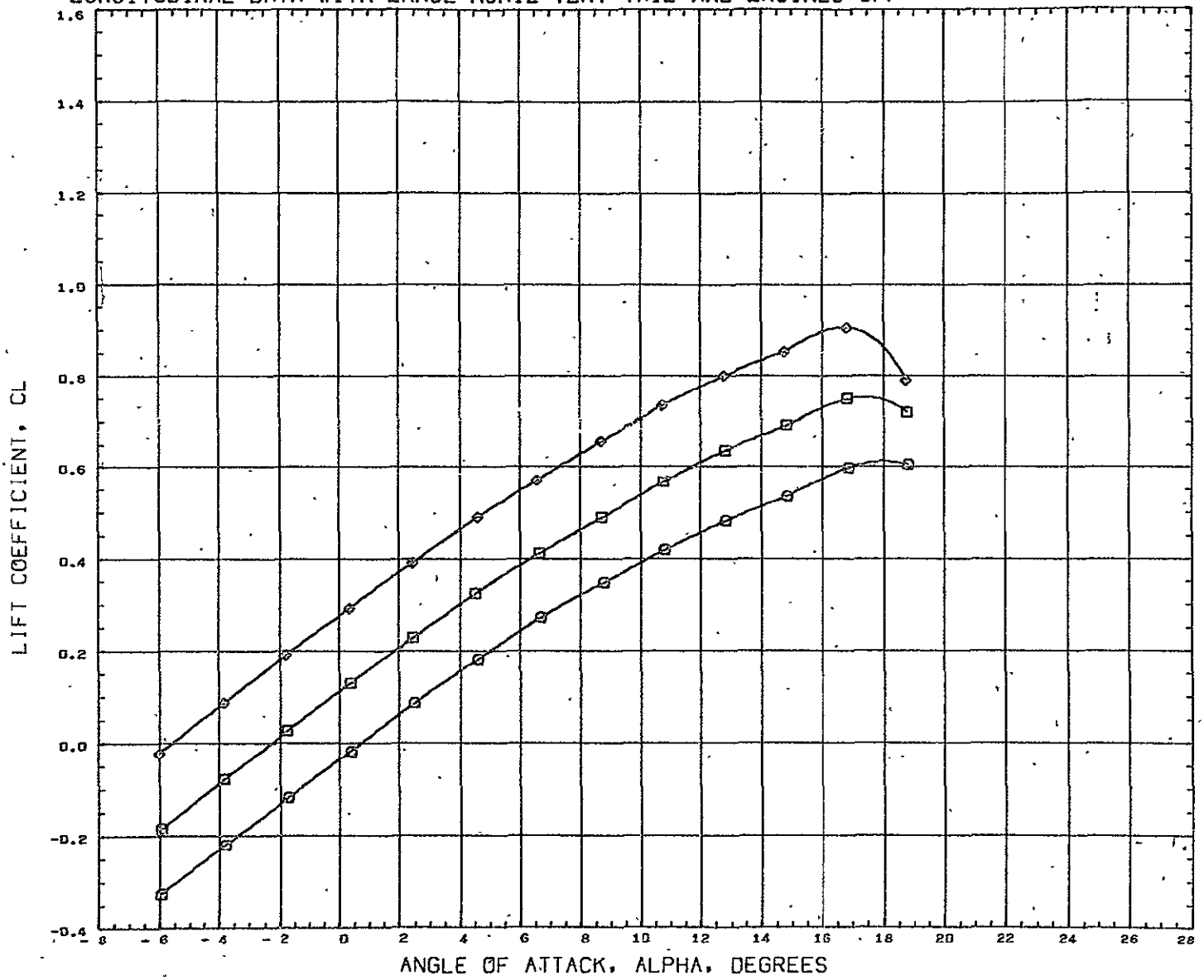
□	4.000	RUDDER	0.000	FLAPS	0.000
◇	8.000	SPOILR	0.000	ENGINE	21.000
△	12.000				

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND ENGINES OFF

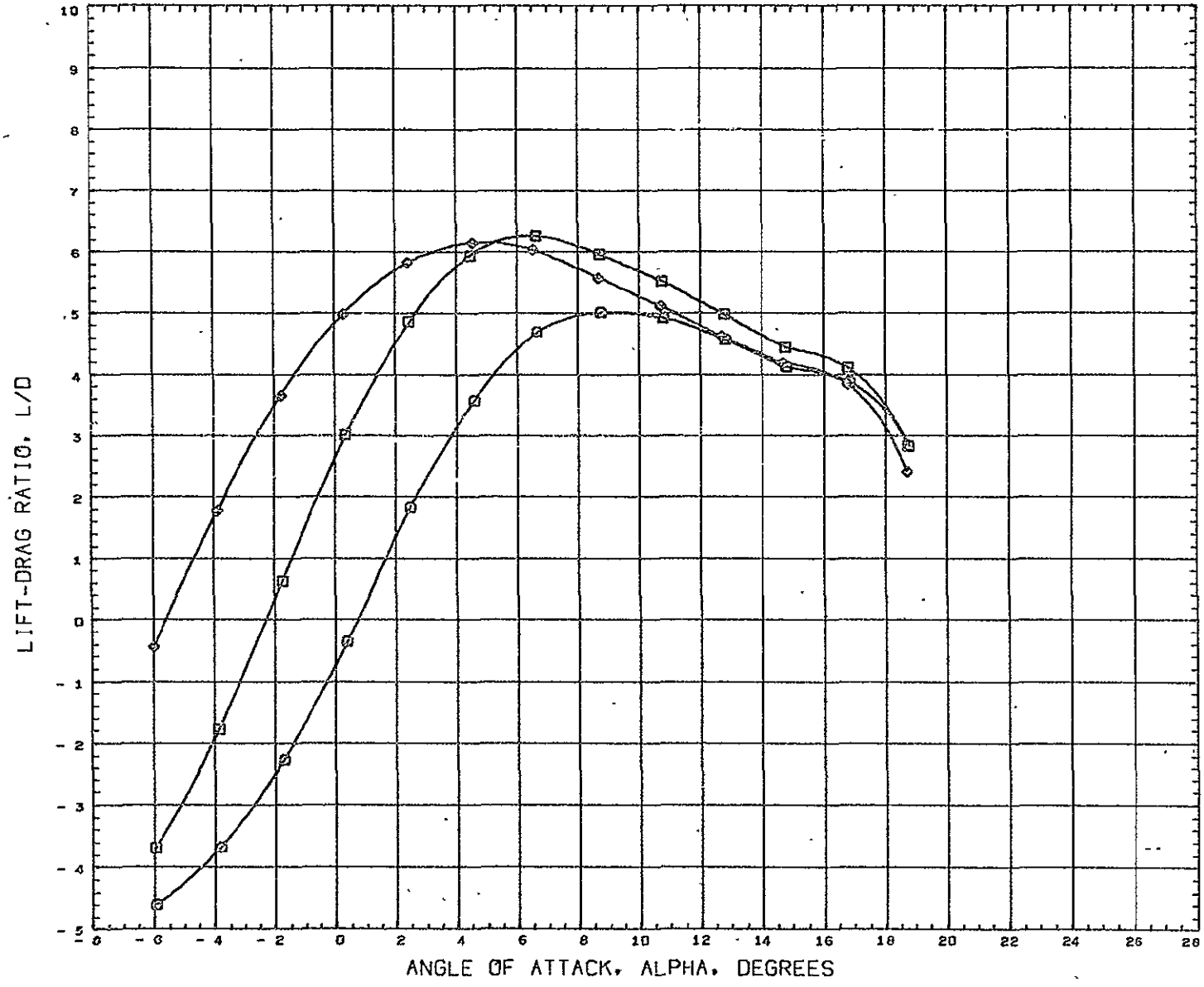


SYMBOL	ELEVTR.		PARAMETRIC VALUES		
○	-10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000		

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3590	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND ENGINES OFF



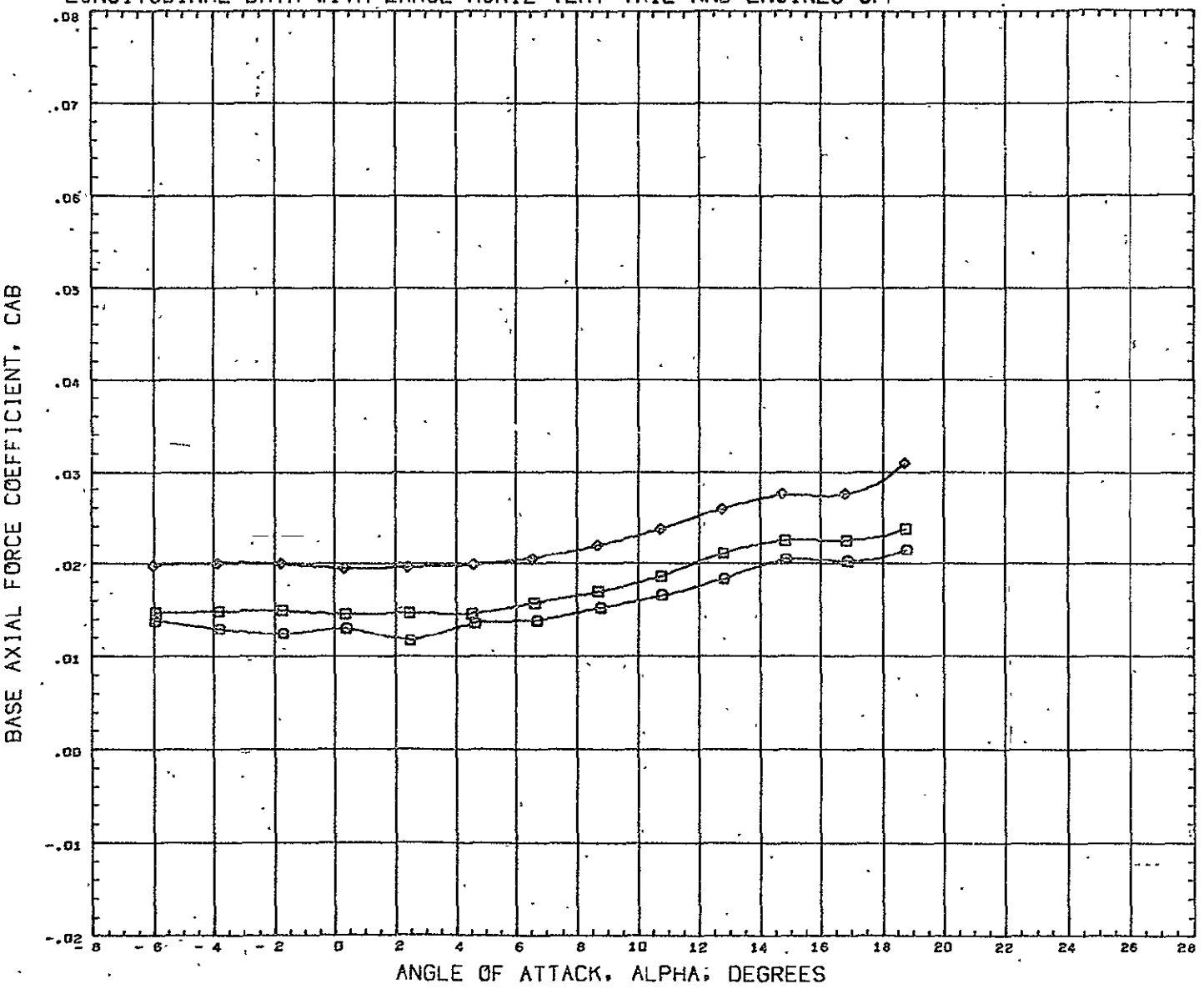
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	-10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000		

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRF	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LØNGITUDINAL DATA WITH LARGE HØRIZ-VERT TAIL AND ENGINES ØFF



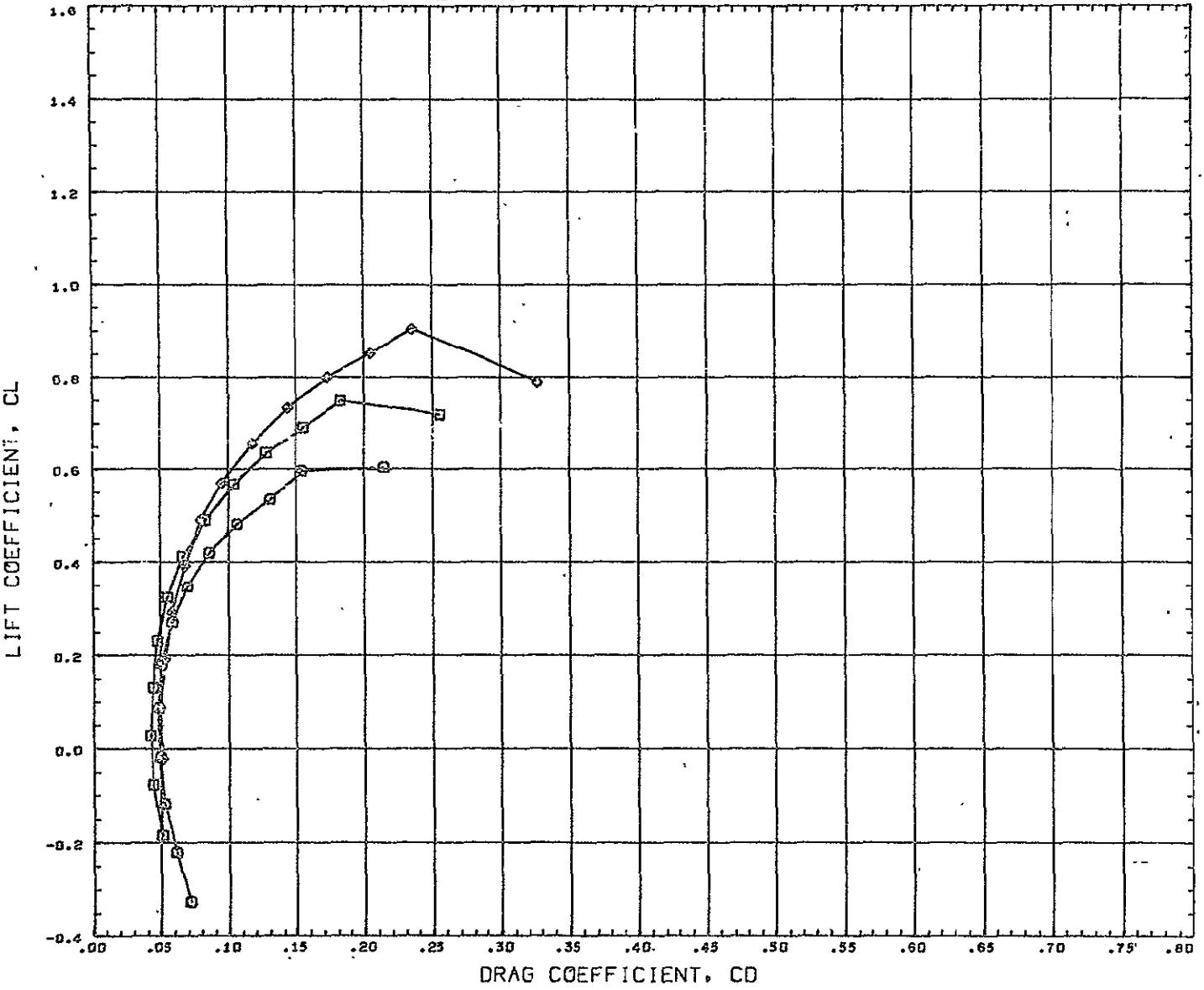
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000		

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND ENGINES OFF

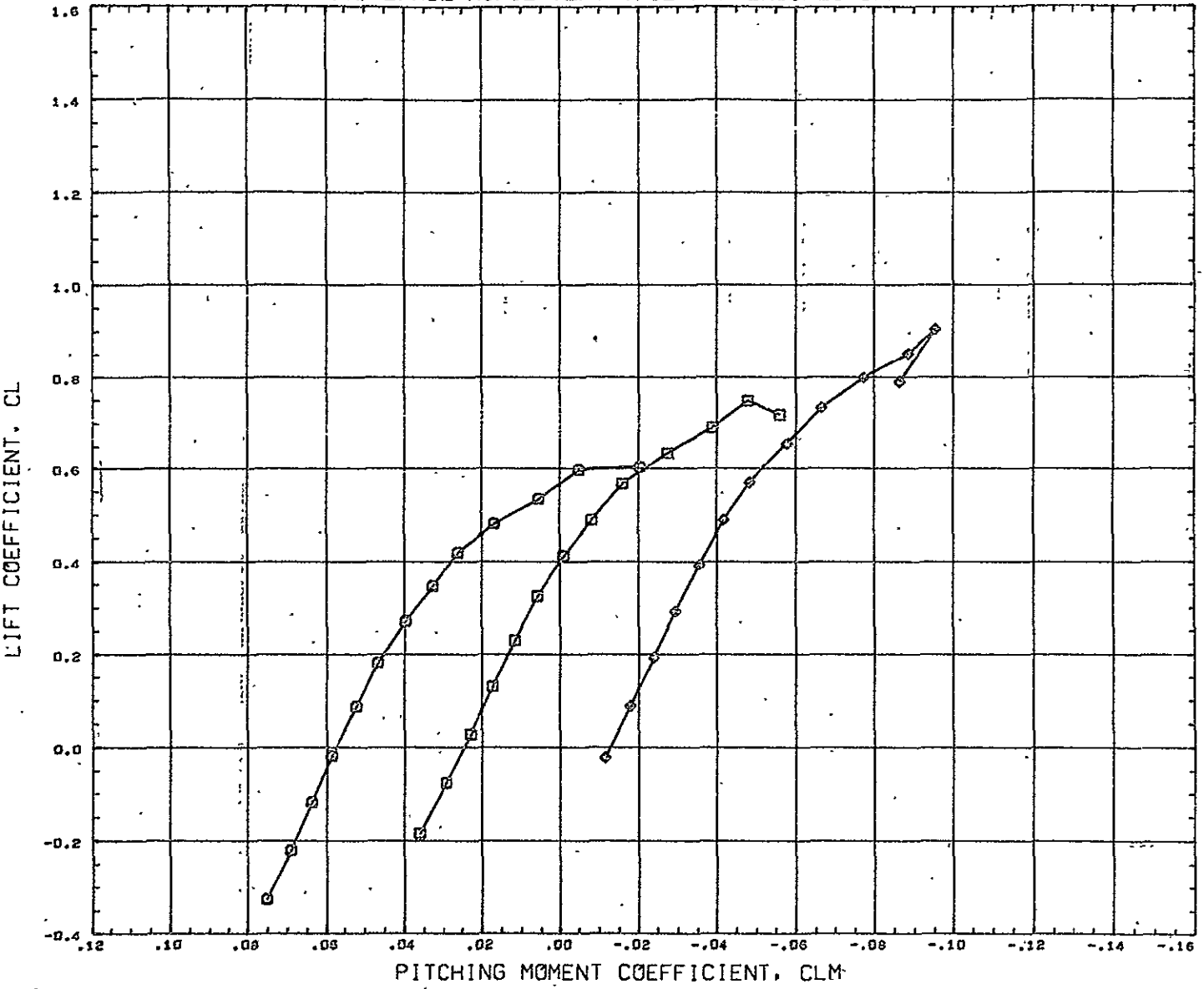


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000		

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND ENGINES OFF



SYMBOL	ELEVTR		PARAMETRIC VALUES		
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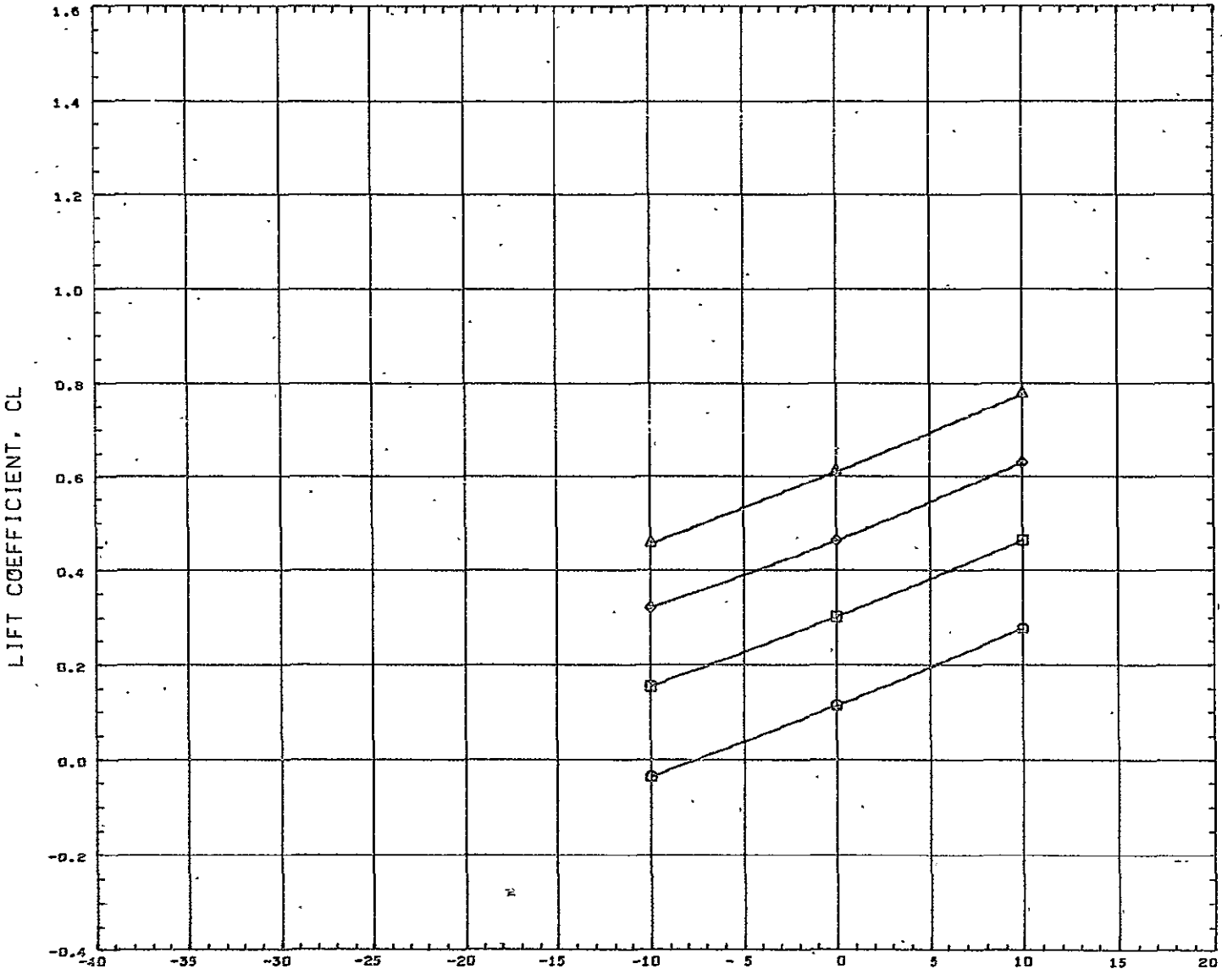
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000		

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND ENGINES OFF

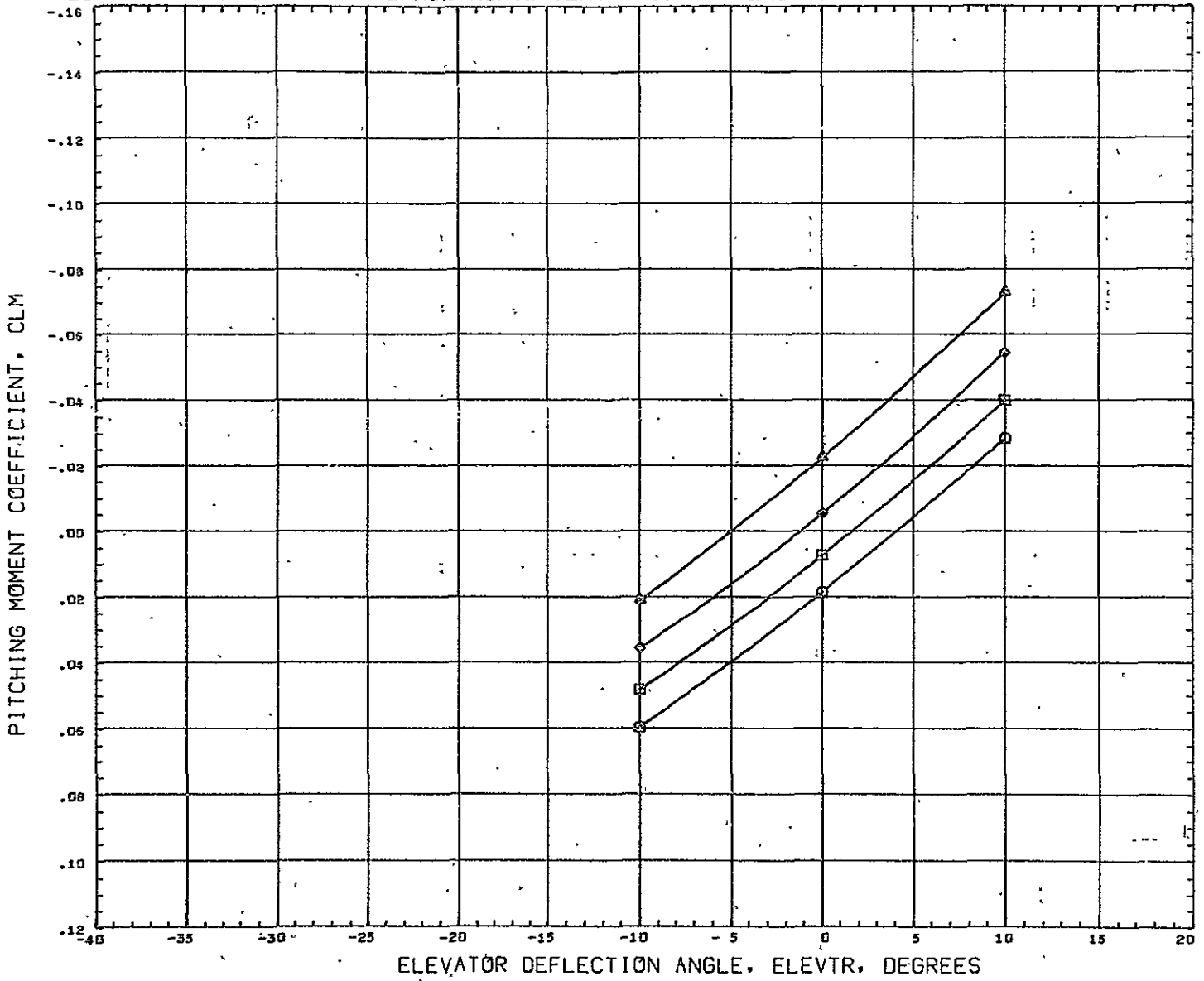


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	0.000	MACH	0.259	BETA	0.000
□	4.000	RUDDER	0.000	FLAPS	0.000
◇	8.000	SPOILR	0.000		
△	12.000				

DATA HIST. CODE I

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XHRF	29.3920	IN
YHRF	0.0000	IN
ZHRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND ENGINES OFF



SYMBOL	ALPHA
○	0.000
□	4.000
◇	8.000
△	12.000

PARAMETRIC VALUES

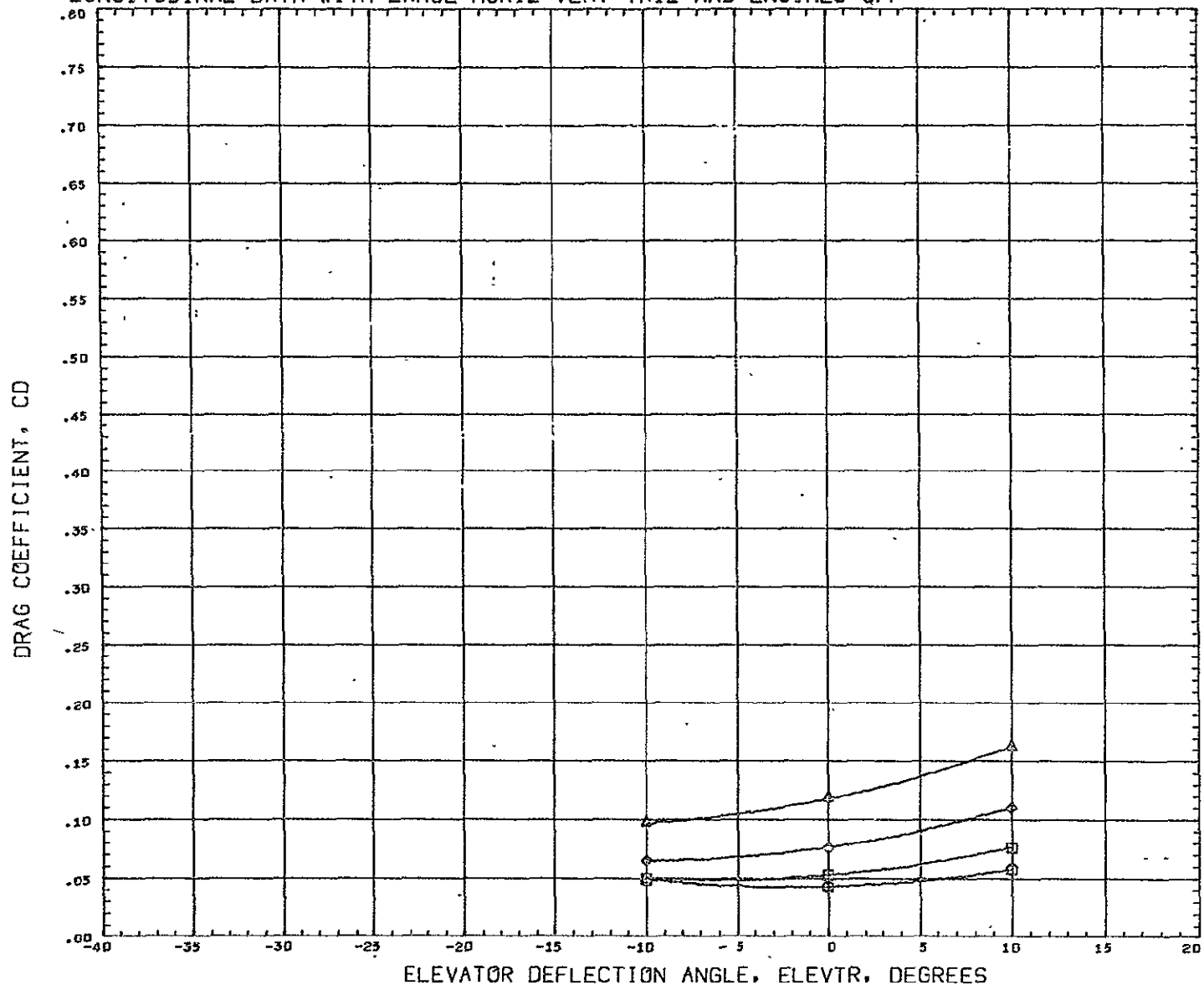
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND ENGINES OFF



SYMBOL	ALPHA		PARAMETRIC VALUES		
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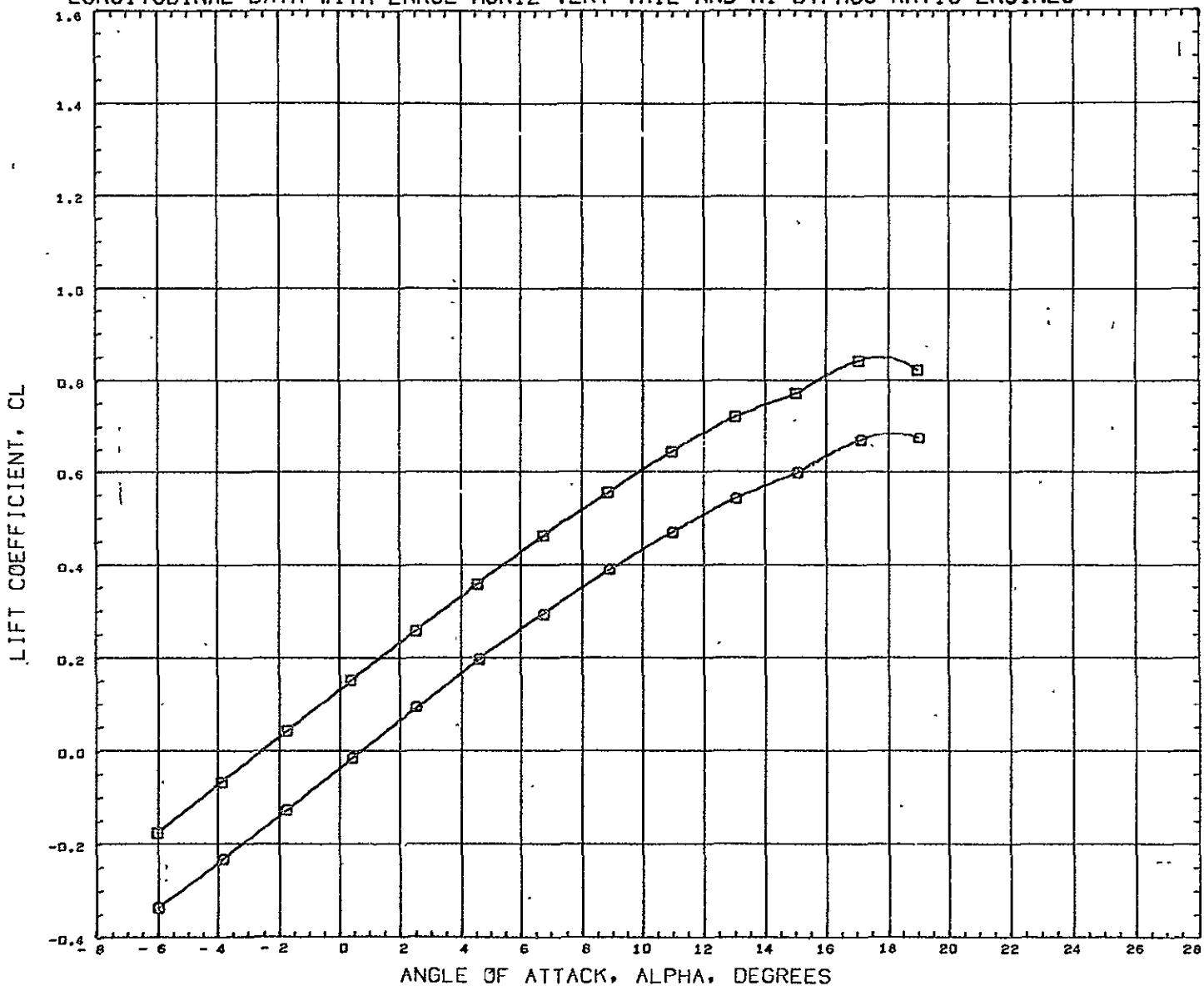
□	4.000	RUDDER	0.000	FLAPS	0.000
◇	8.000	SPOILR	0.000		
△	12.000				

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HØRIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
O	- 10.000
□	0.000

PARAMETRIC VALUES

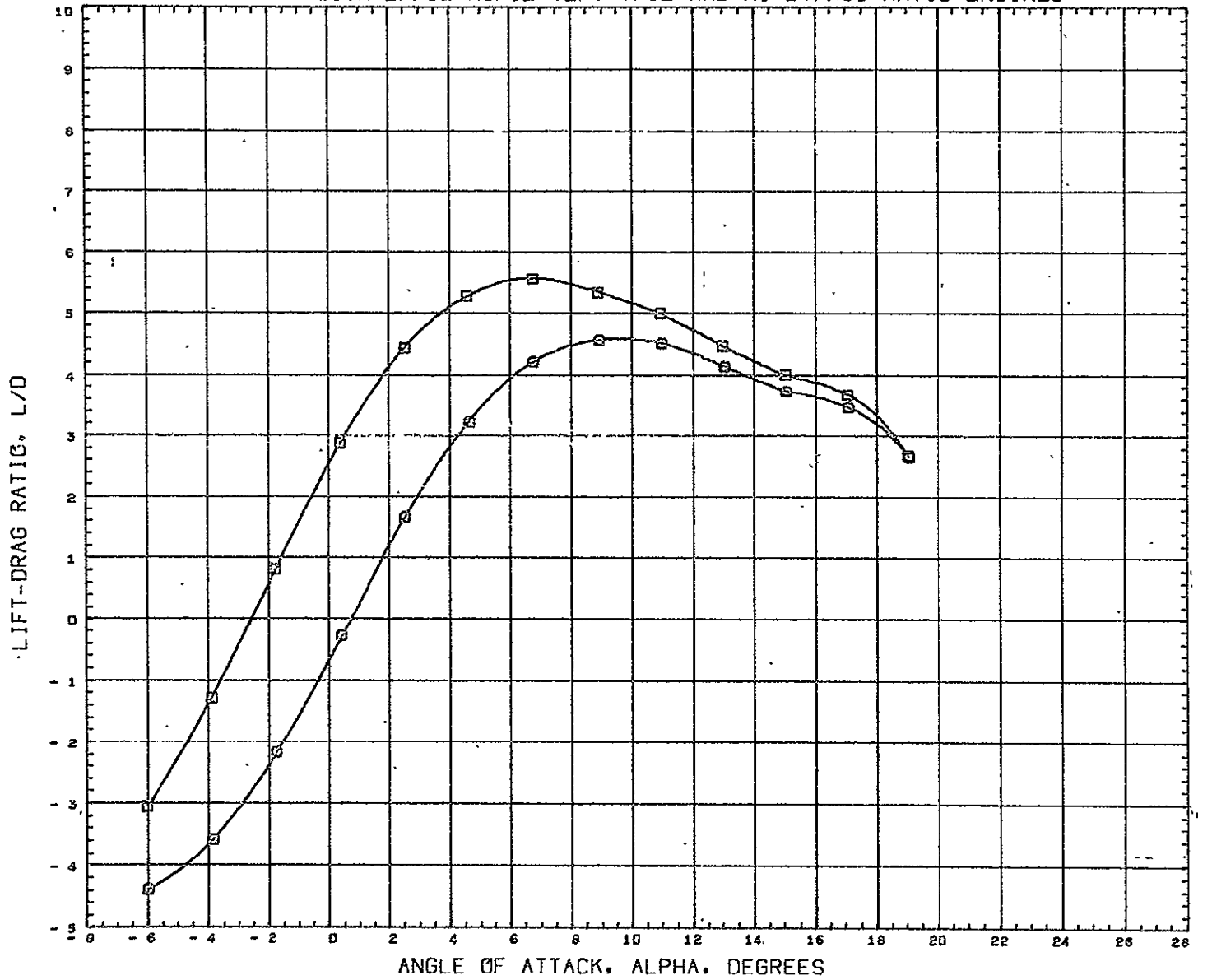
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

REFERENCE FILE CONVAIR TN70-AE-12

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES

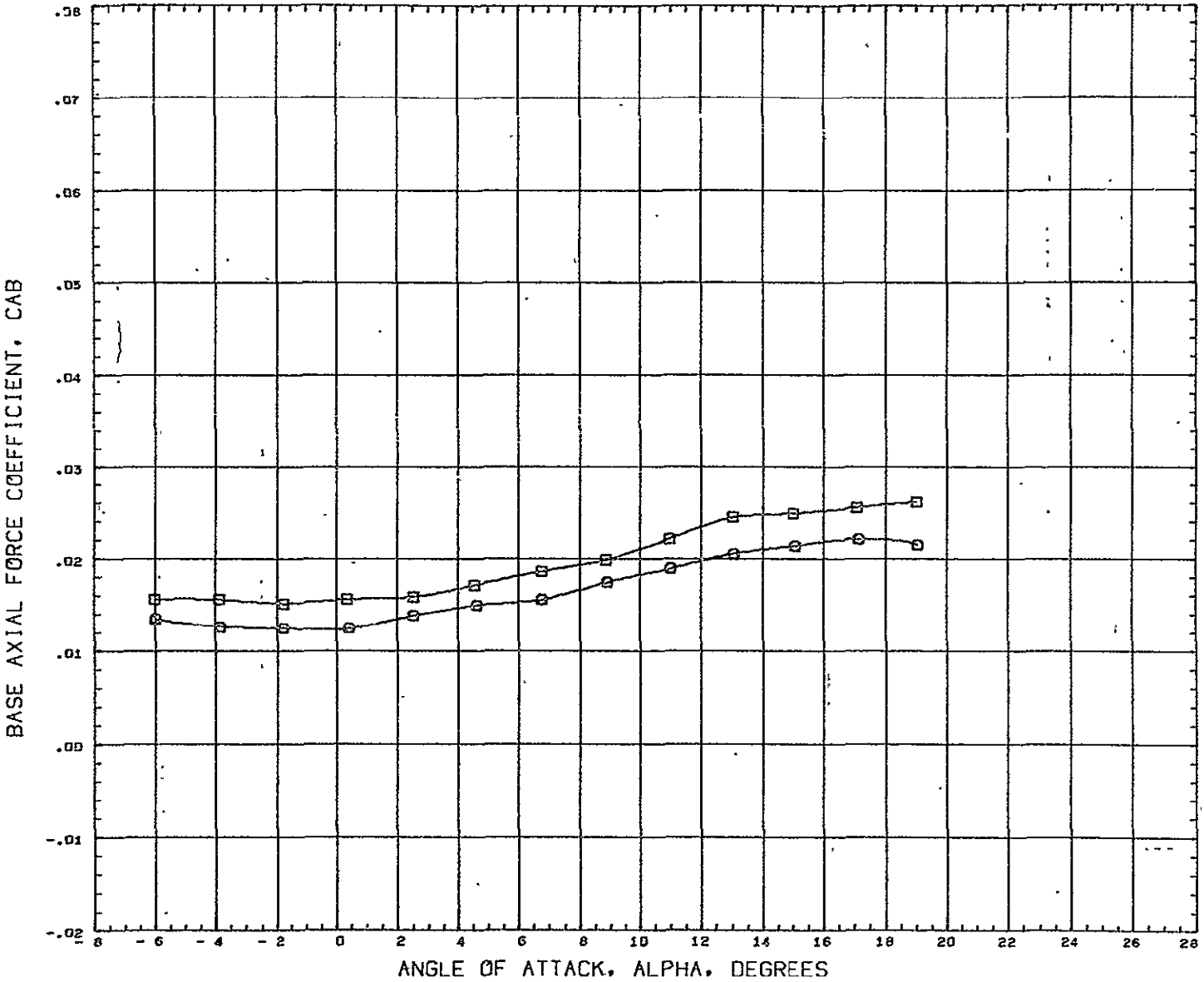


SYMBOL	ELEVTR		PARAMETRIC VALUES		
O	-10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
O	- 10.000
□	0.000

PARAMETRIC VALUES

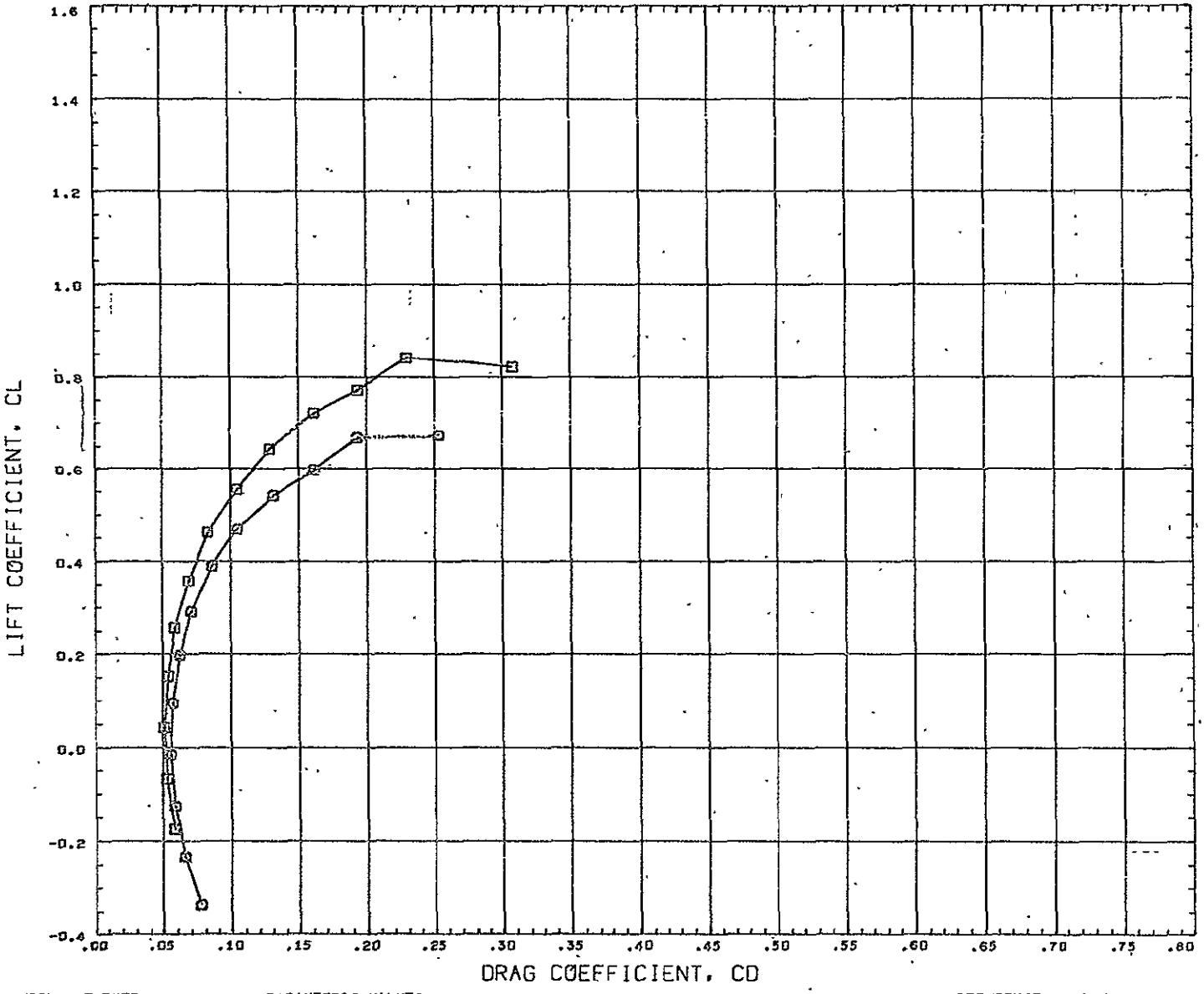
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
□	- 10.000
□	0.000

PARAMETRIC VALUES

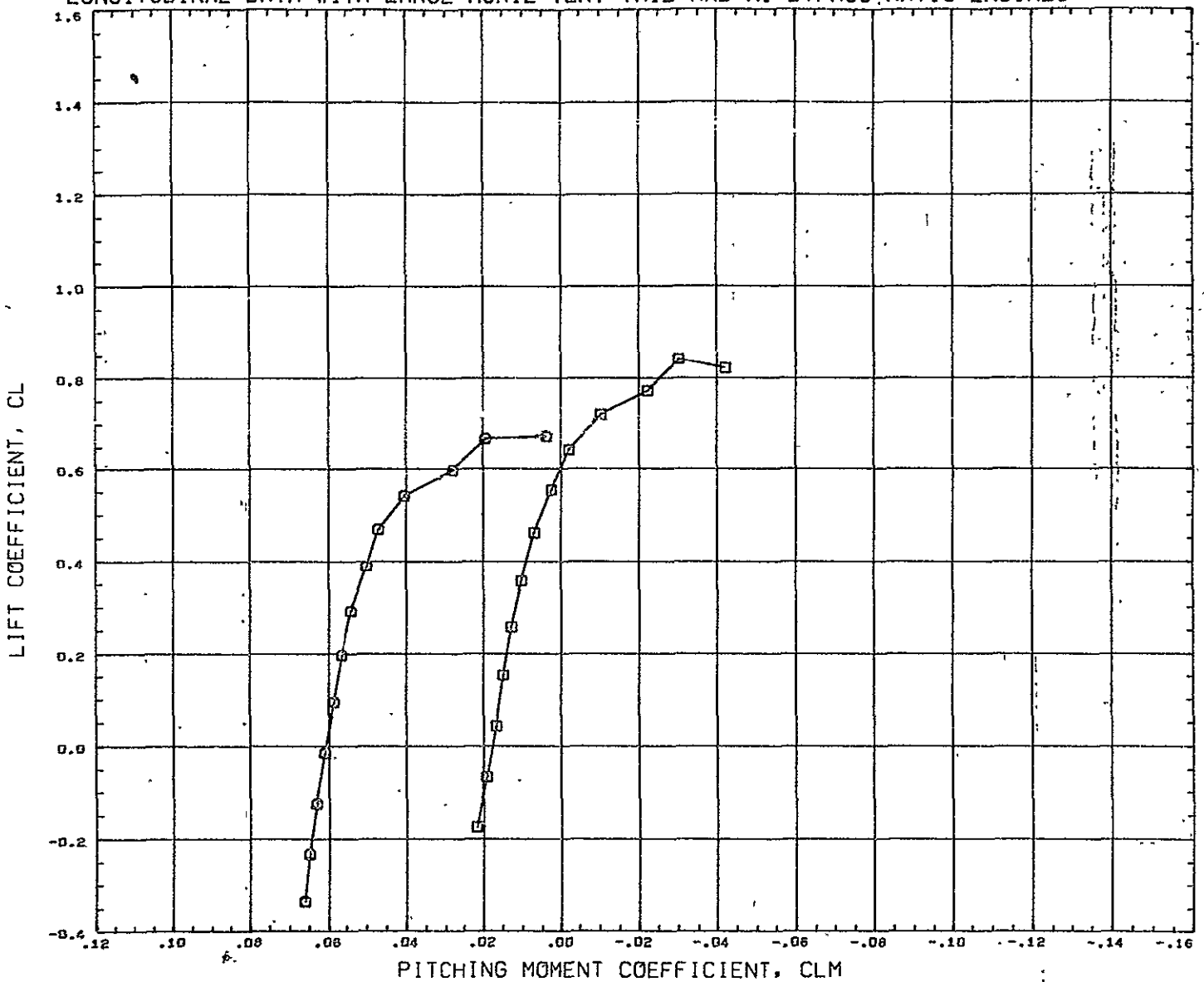
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

Ø REFERENCE FILE CONVAIR TN70-AE-12

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
O	- 10.000
□	0.000

PARAMETRIC VALUES

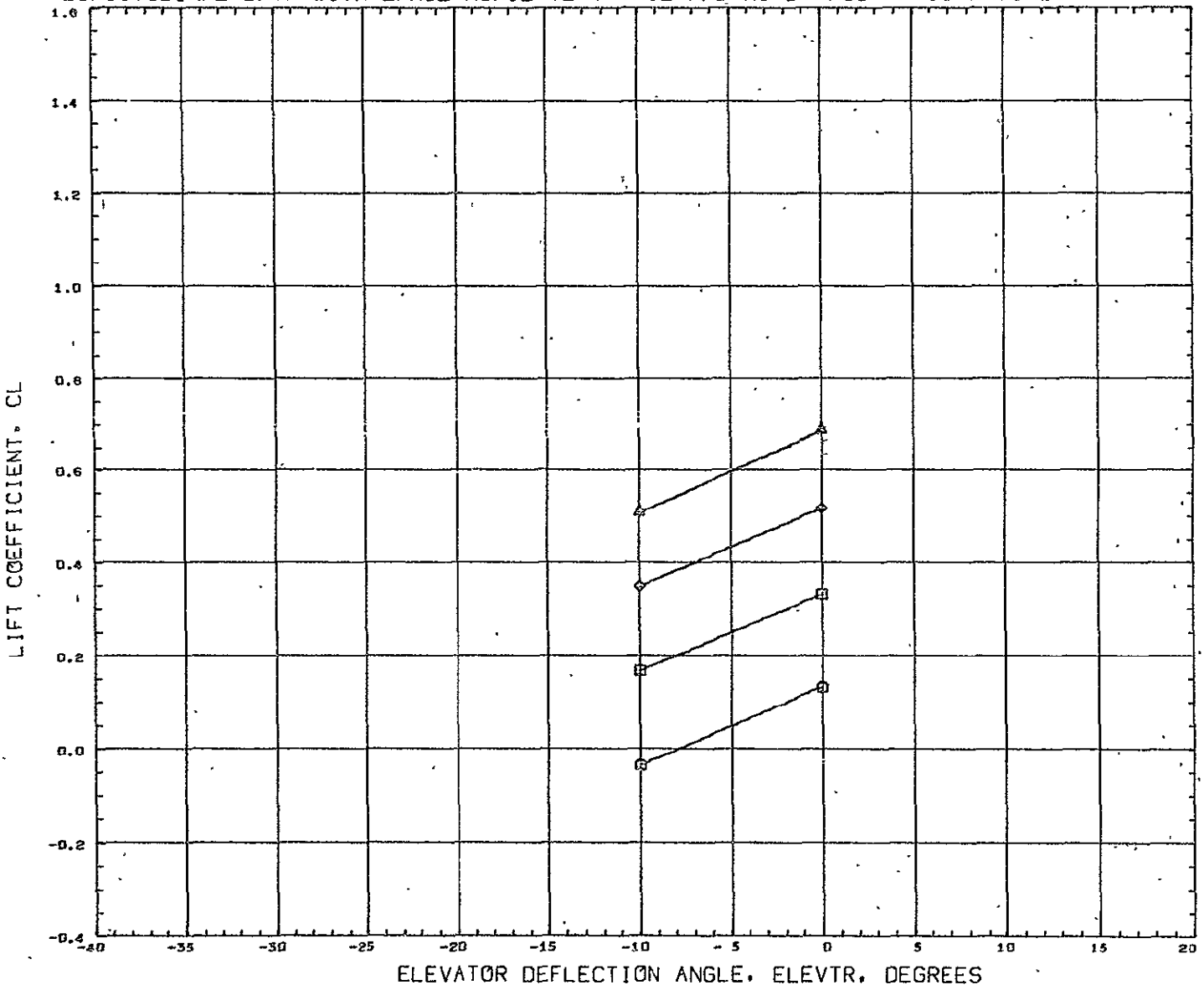
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES



SYMBOL	ALPHA
O	0.000
□	4.000
◇	8.000
△	12.000

PARAMETRIC VALUES

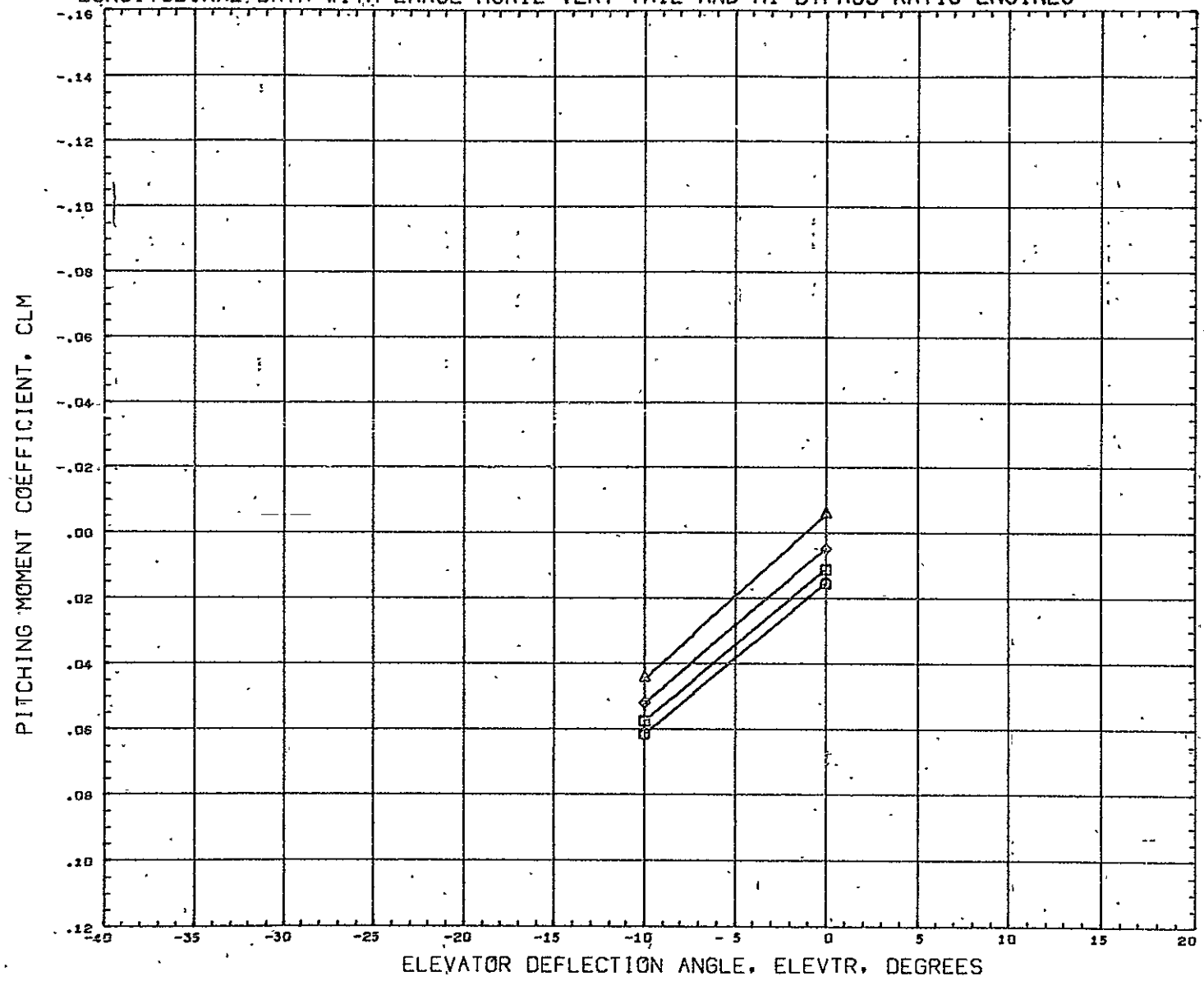
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	-0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE INFORMATION-

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

DATA HIST. CODE I

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES



SYMBOL	ALPHA
○	0.000
□	4.000
◇	8.000
△	12.000

PARAMETRIC VALUES

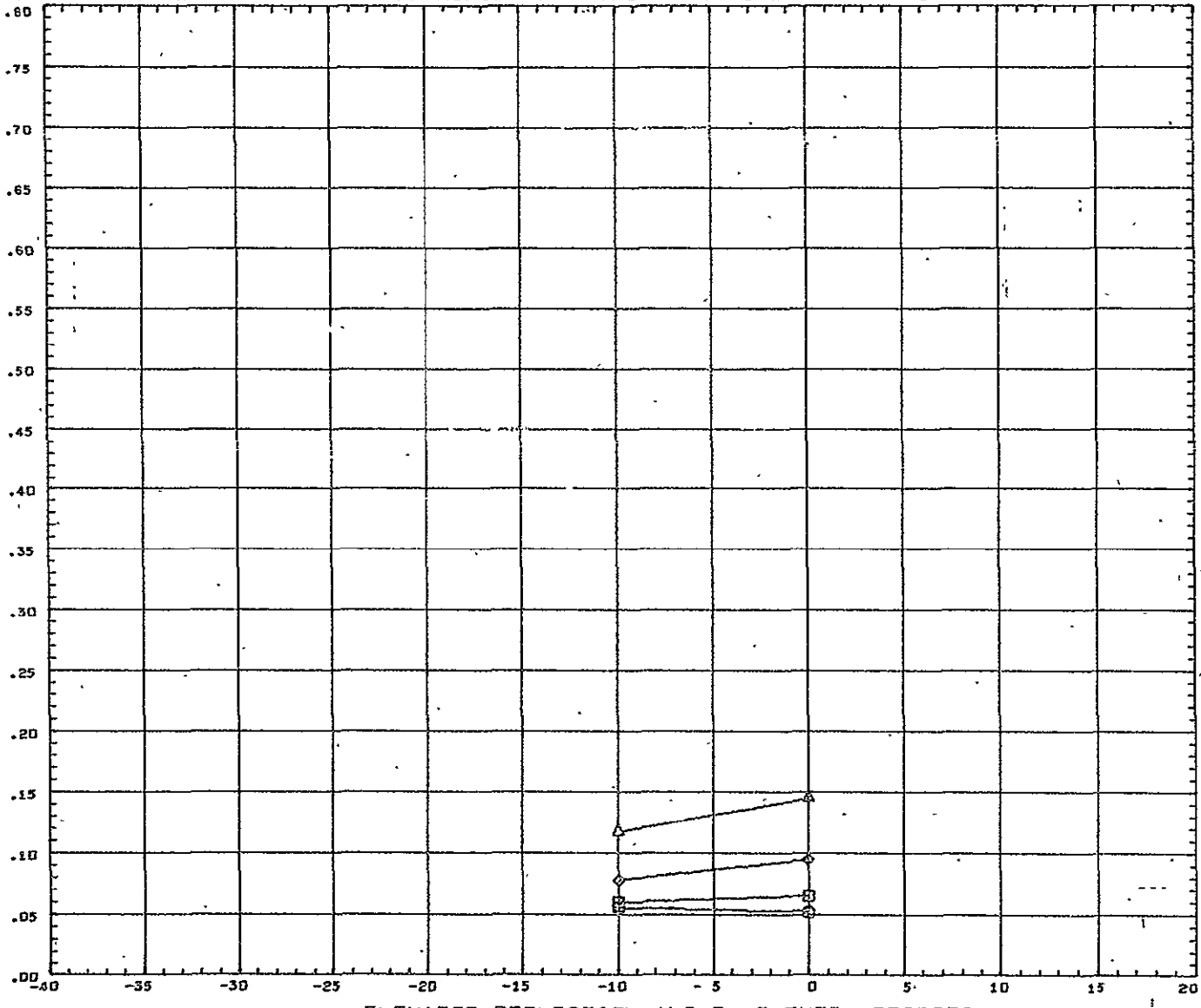
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES



SYMBOL	ALPHA
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□	4.000
◇	8.000
△	12.000

PARAMETRIC VALUES

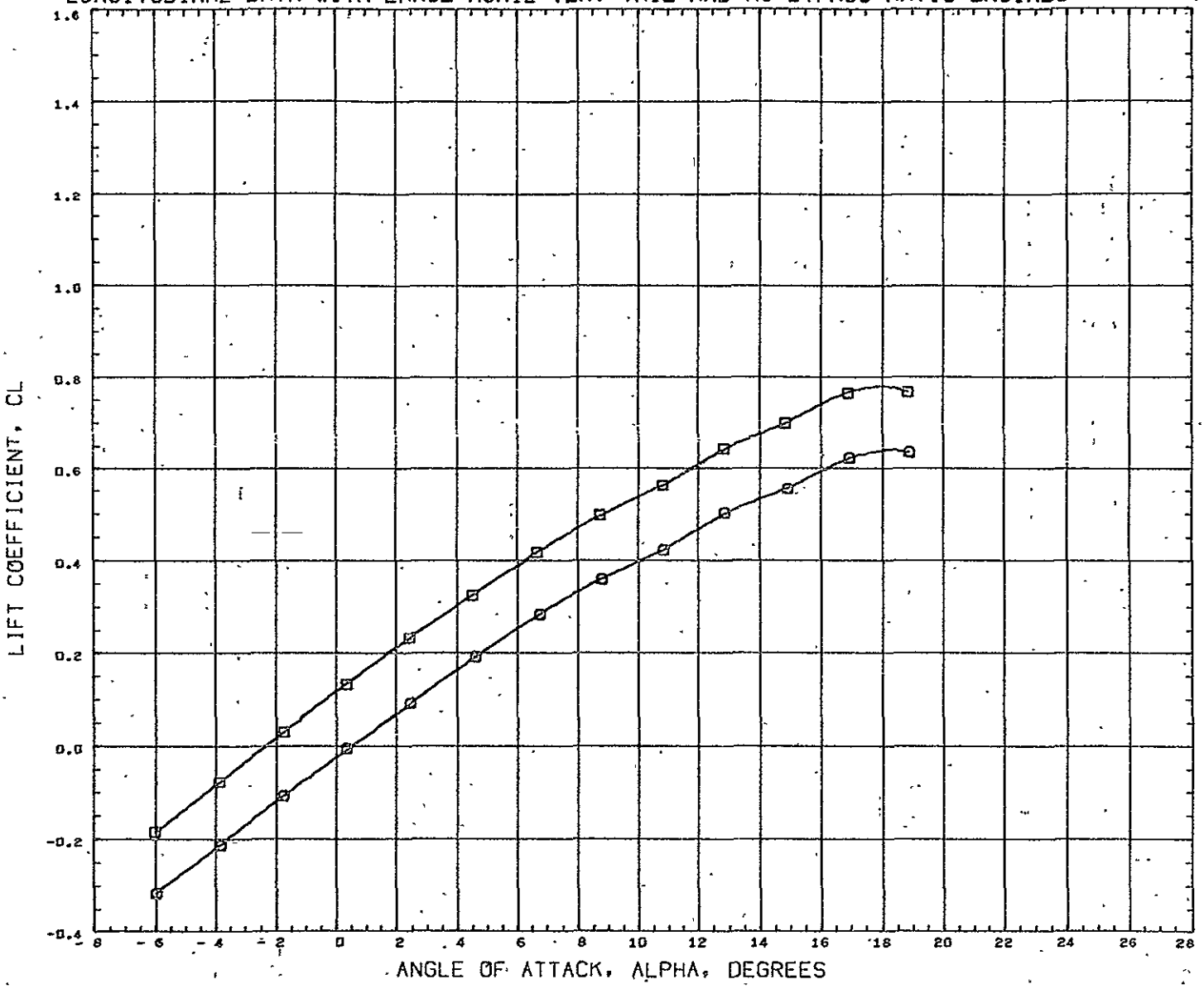
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

DATA HIST. CODE I

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
○	-10.000
□	0.000

PARAMETRIC VALUES

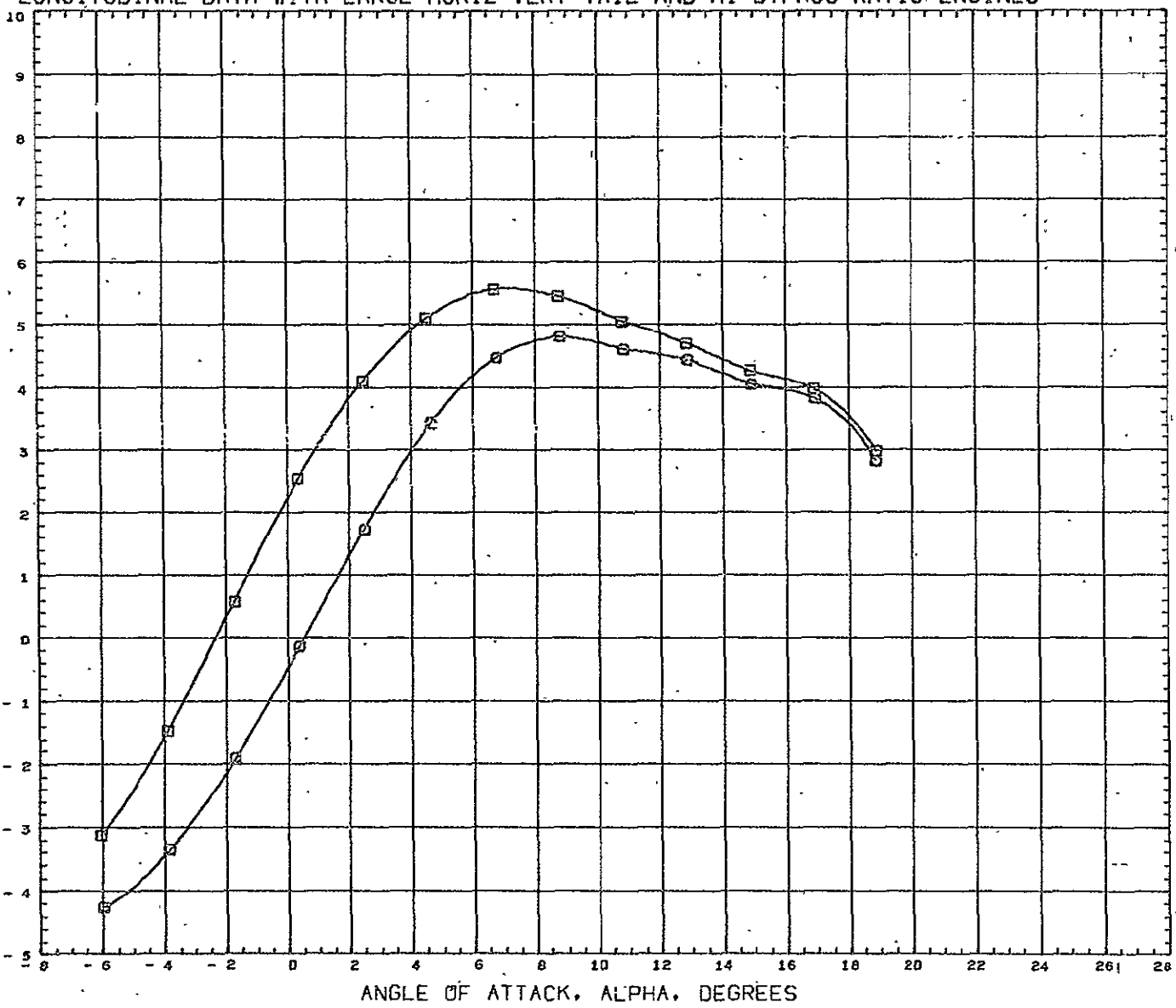
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR	PARAMETRIC VALUES			
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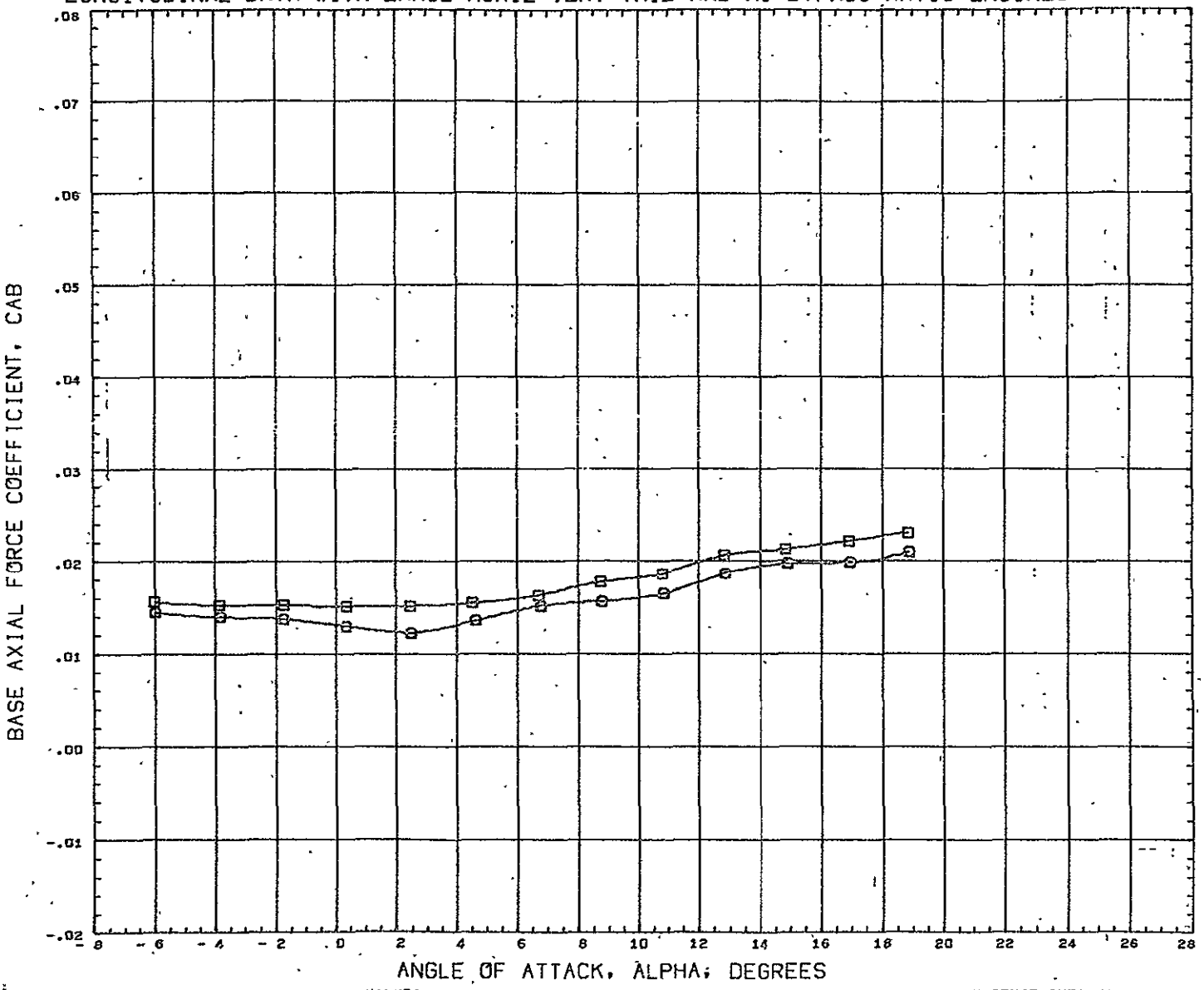
□	0.000	RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES

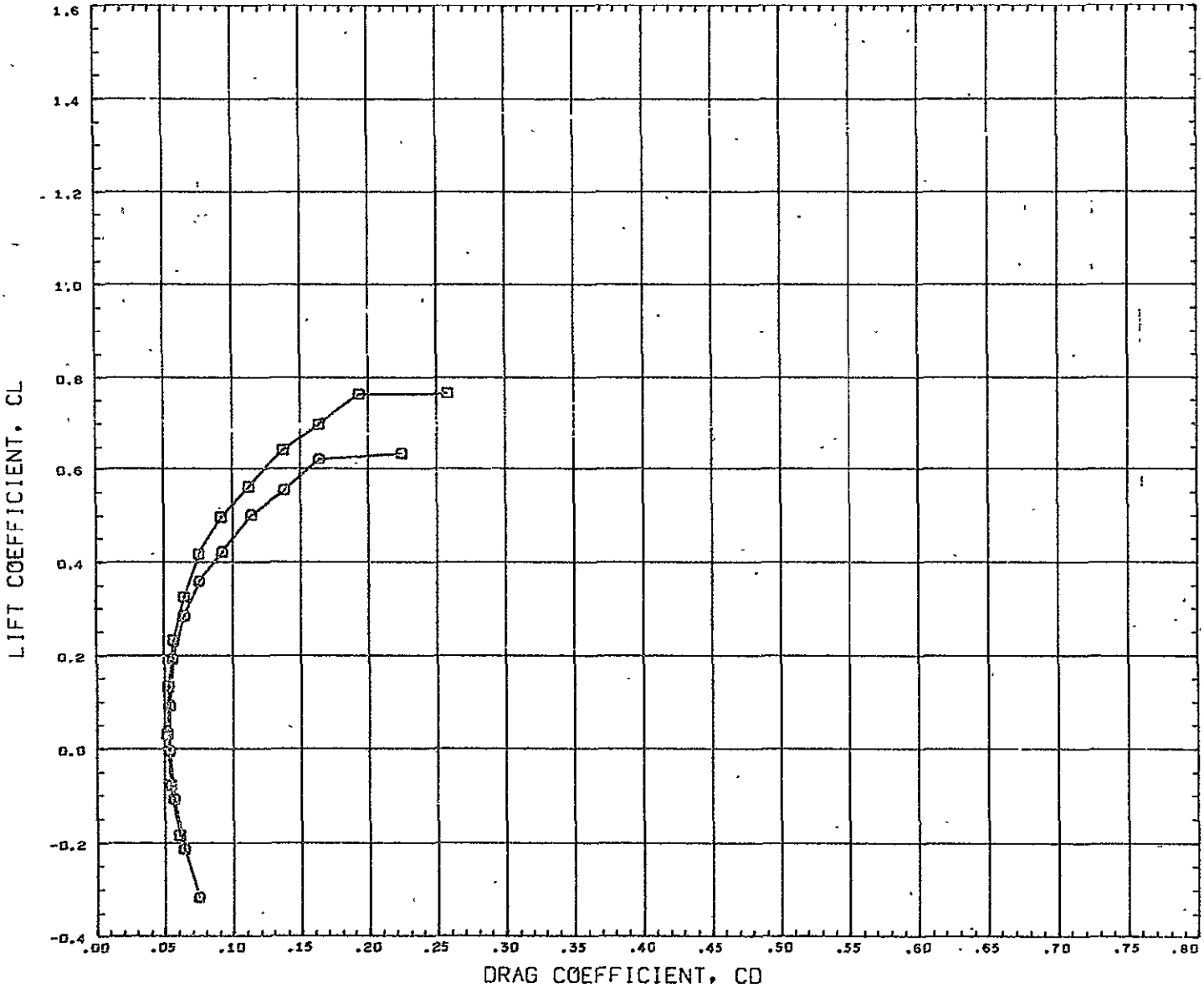


SYMBOL	ELEVTR	PARAMETRIC VALUES			
□	-10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
○	- 10.000
□	0.000

PARAMETRIC VALUES

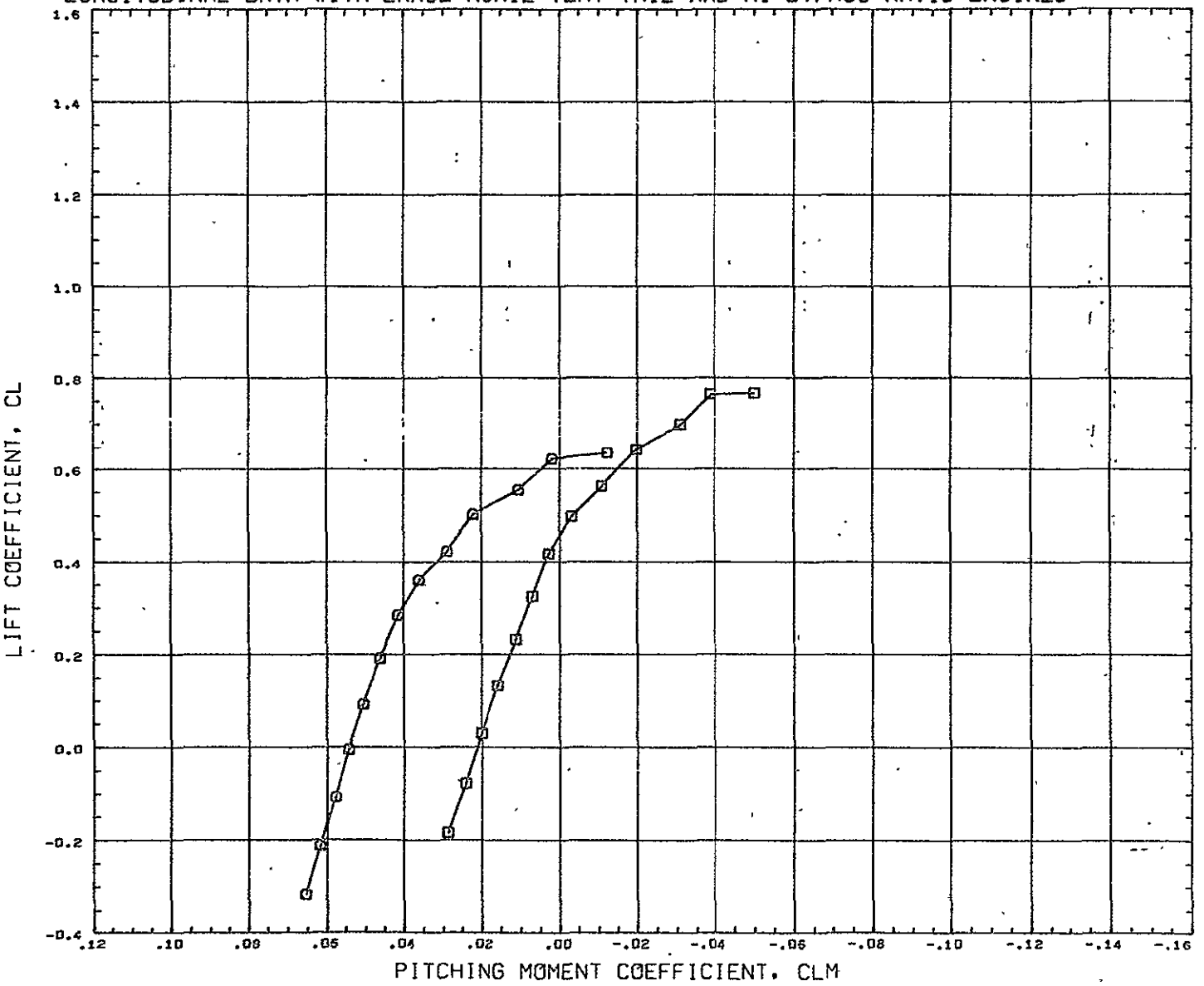
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

REFERENCE FILE CONVAIR TN70-AE-12

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES



SYMBOL	ELEVTR	PARAMETRIC VALUES			
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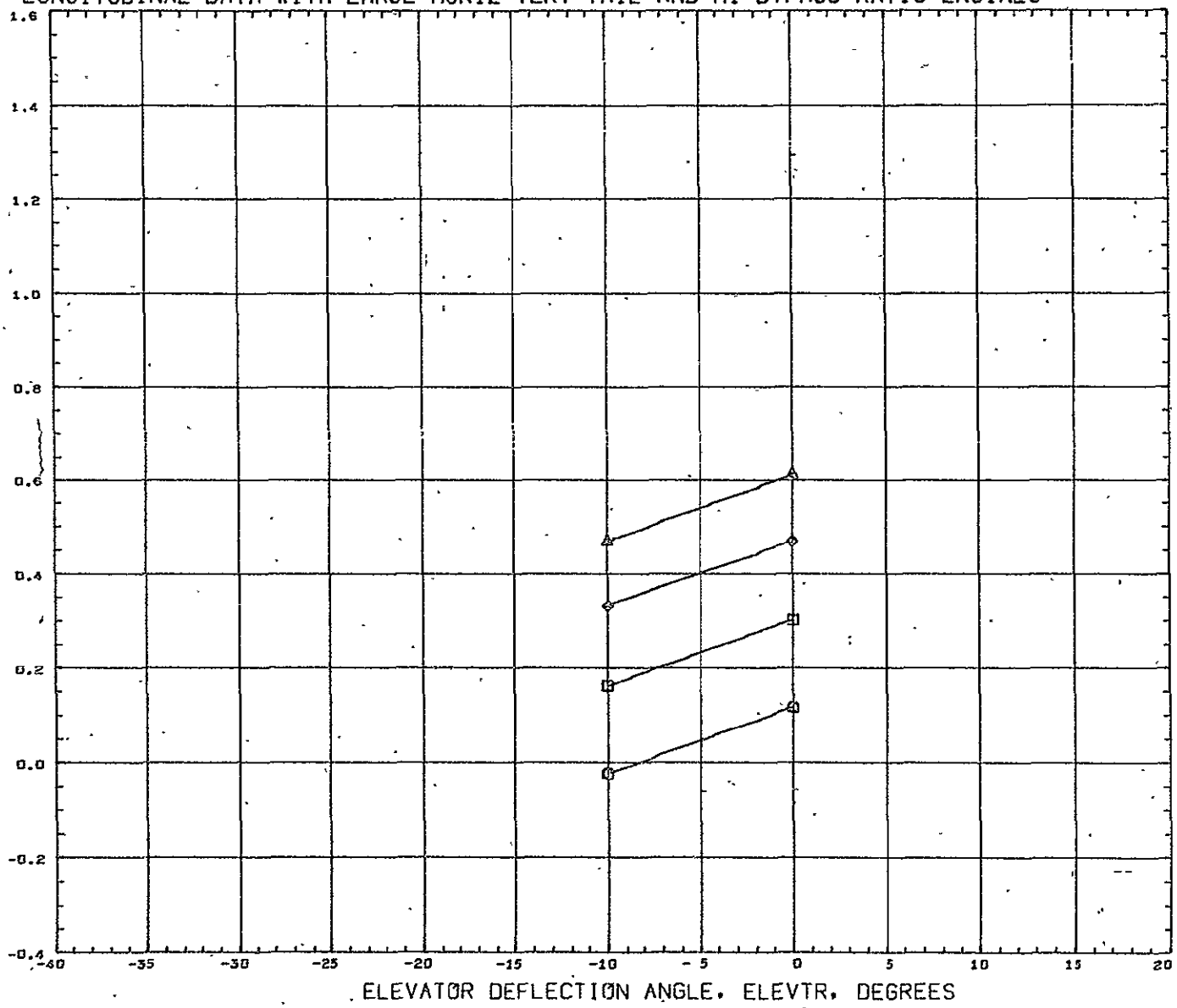
□	0.000	RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES



SYMBOL	ALPHA
○	0.000
□	4.000
◇	8.000
△	12.000

PARAMETRIC VALUES

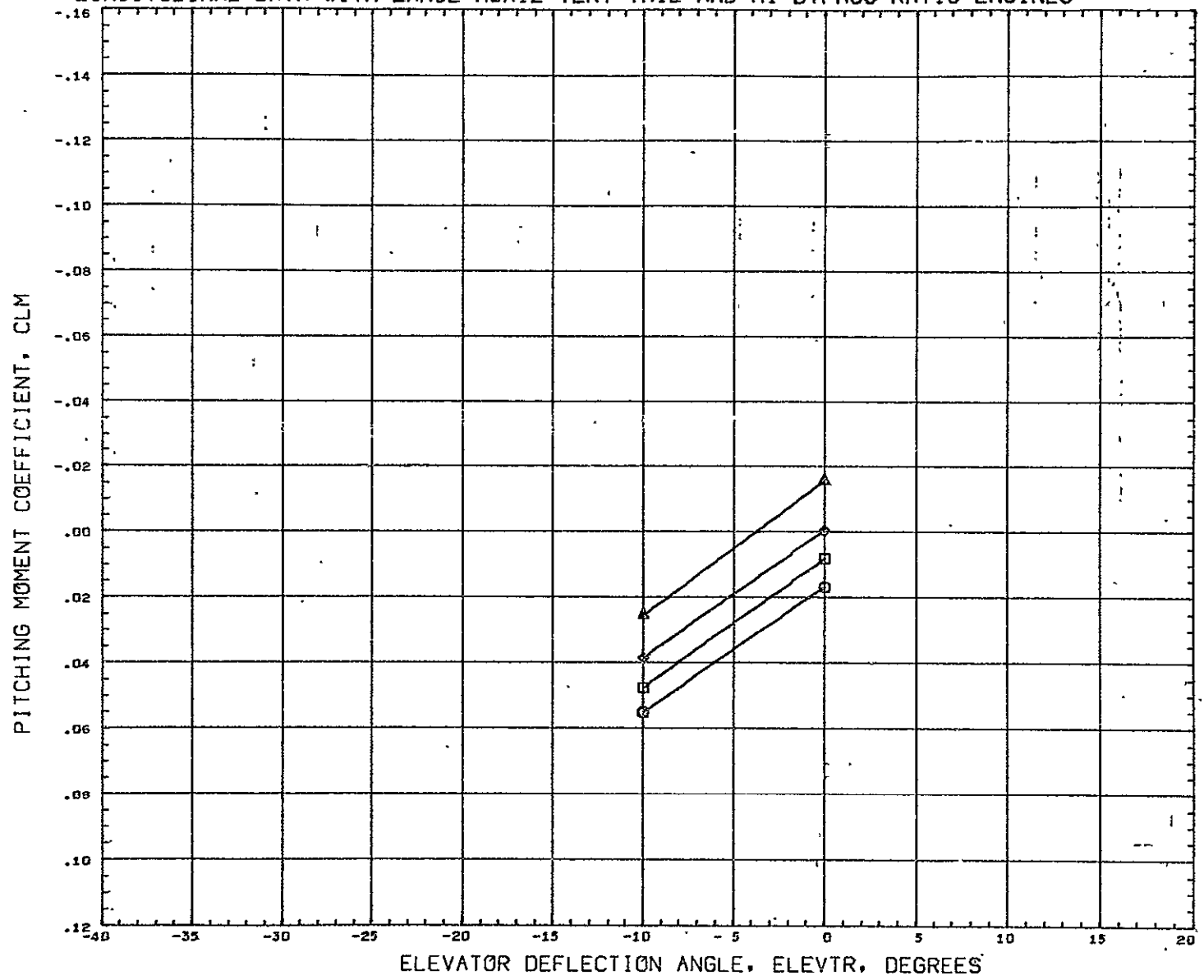
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

DATA HIST. CODE I

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES



SYMBOL	ALPHA
○	0.000
□	4.000
◇	8.000
△	12.000

PARAMETRIC VALUES

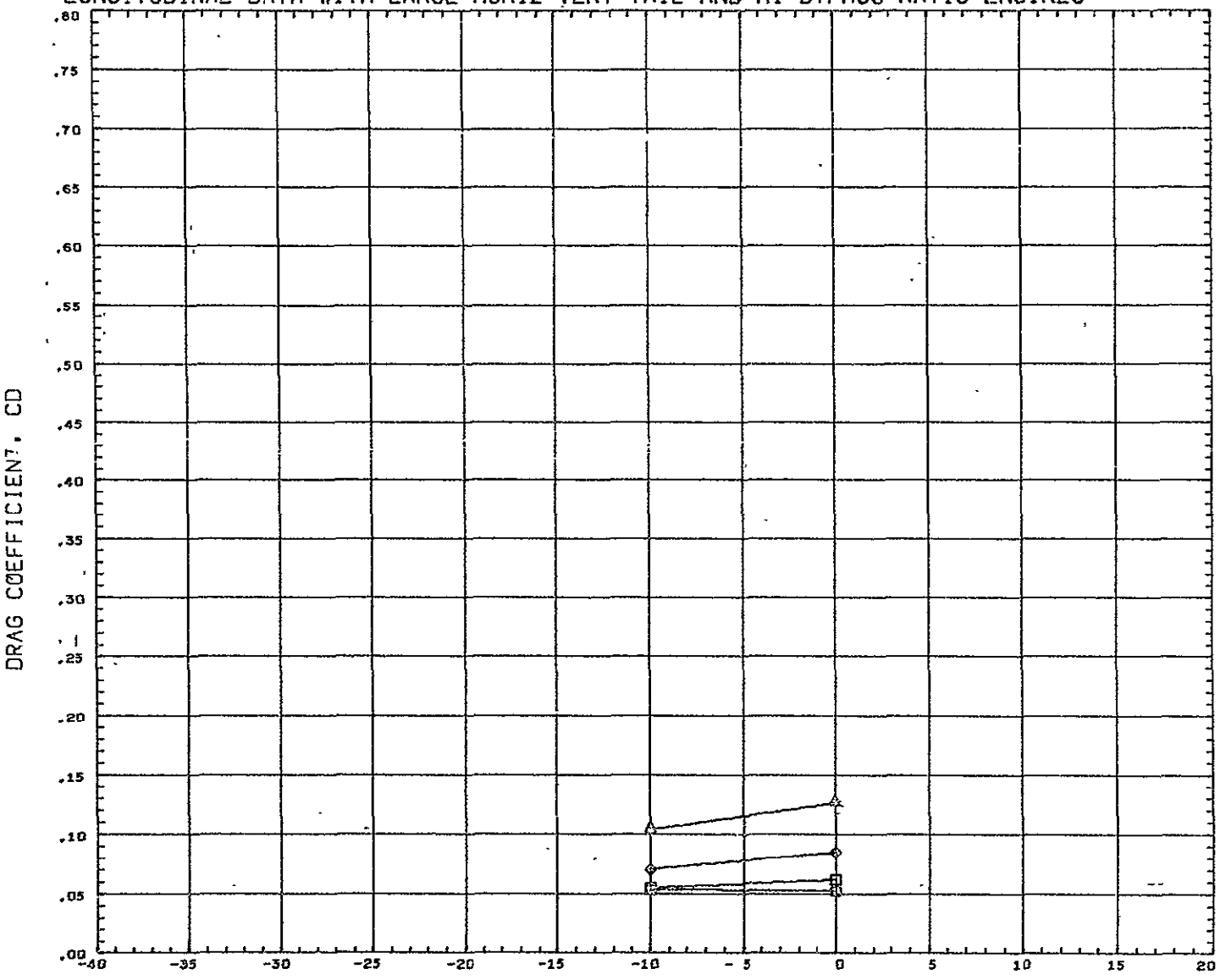
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	28.000

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND HI-BYPASS RATIO ENGINES



SYMBOL	ALPHA		PARAMETRIC VALUES		
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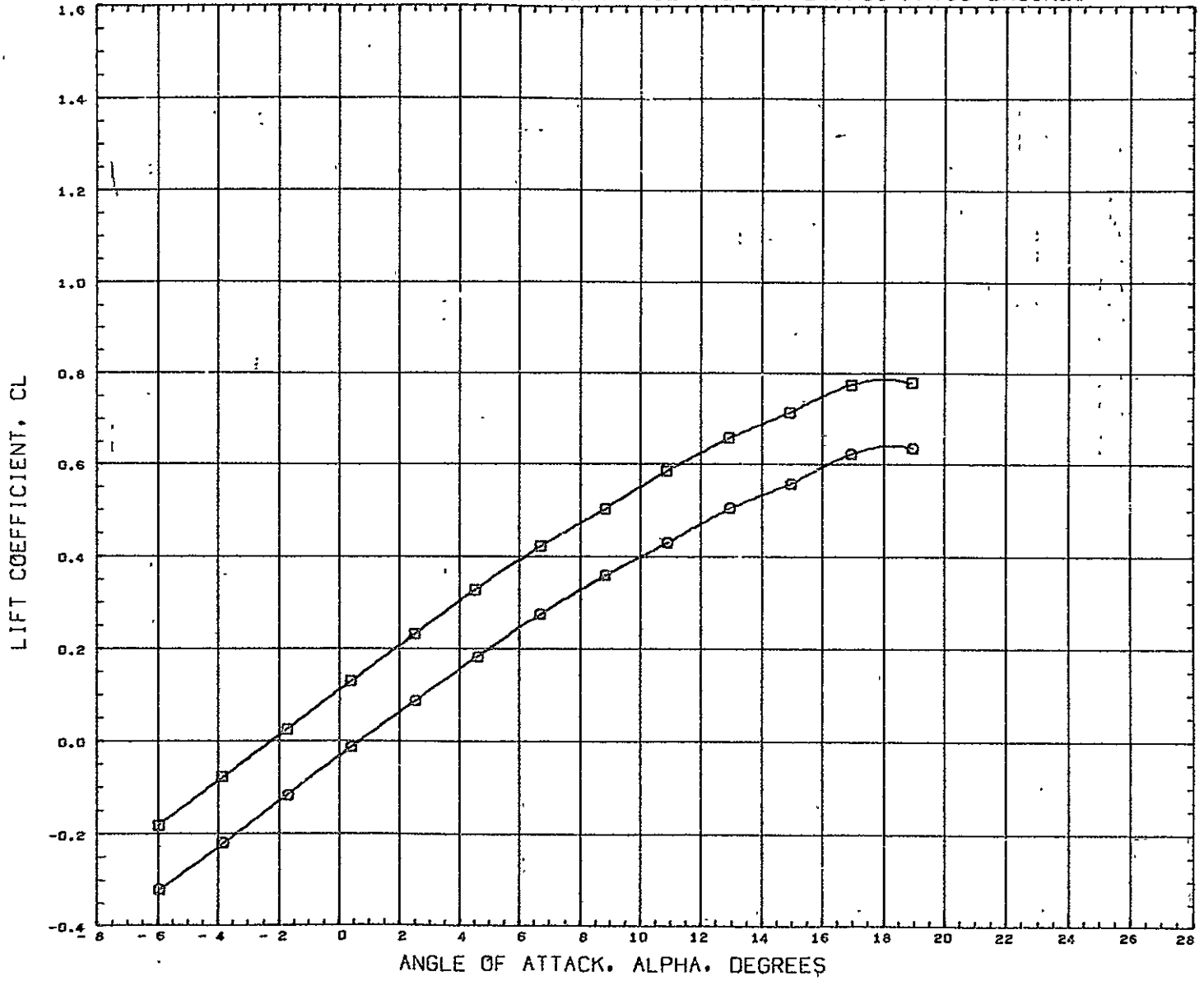
□	4.000	RUDDER	0.000	FLAPS	0.000
◇	8.000	SPOILR	0.000	ENGINE	28.000
△	12.000				

DATA HIST. CODE I

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND LOW-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
○	-10.000
□	0.000

PARAMETRIC VALUES

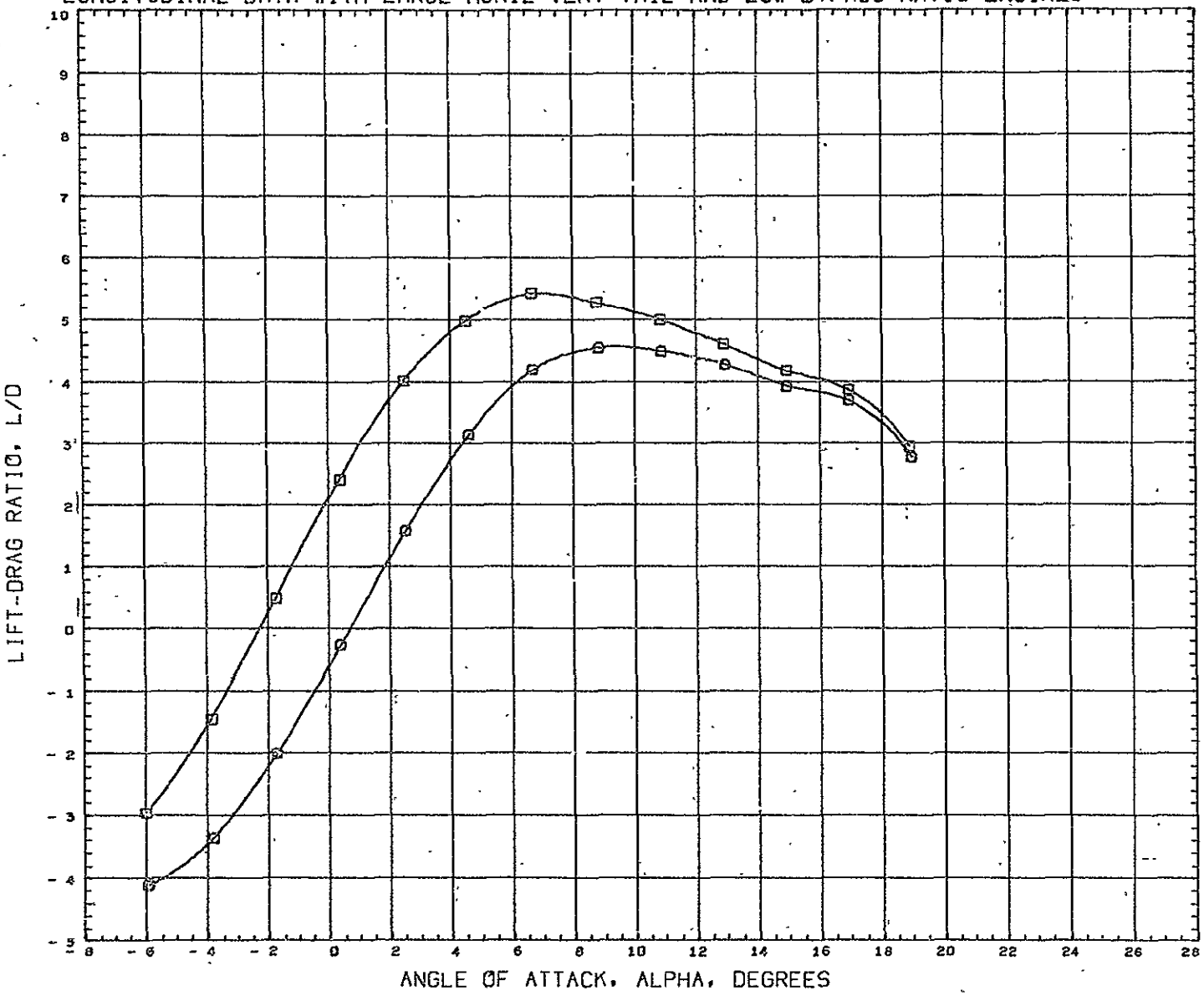
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND LOW-BYPASS RATIO ENGINES



SYMBOL	ELEVTR		PARAMETRIC VALUES		
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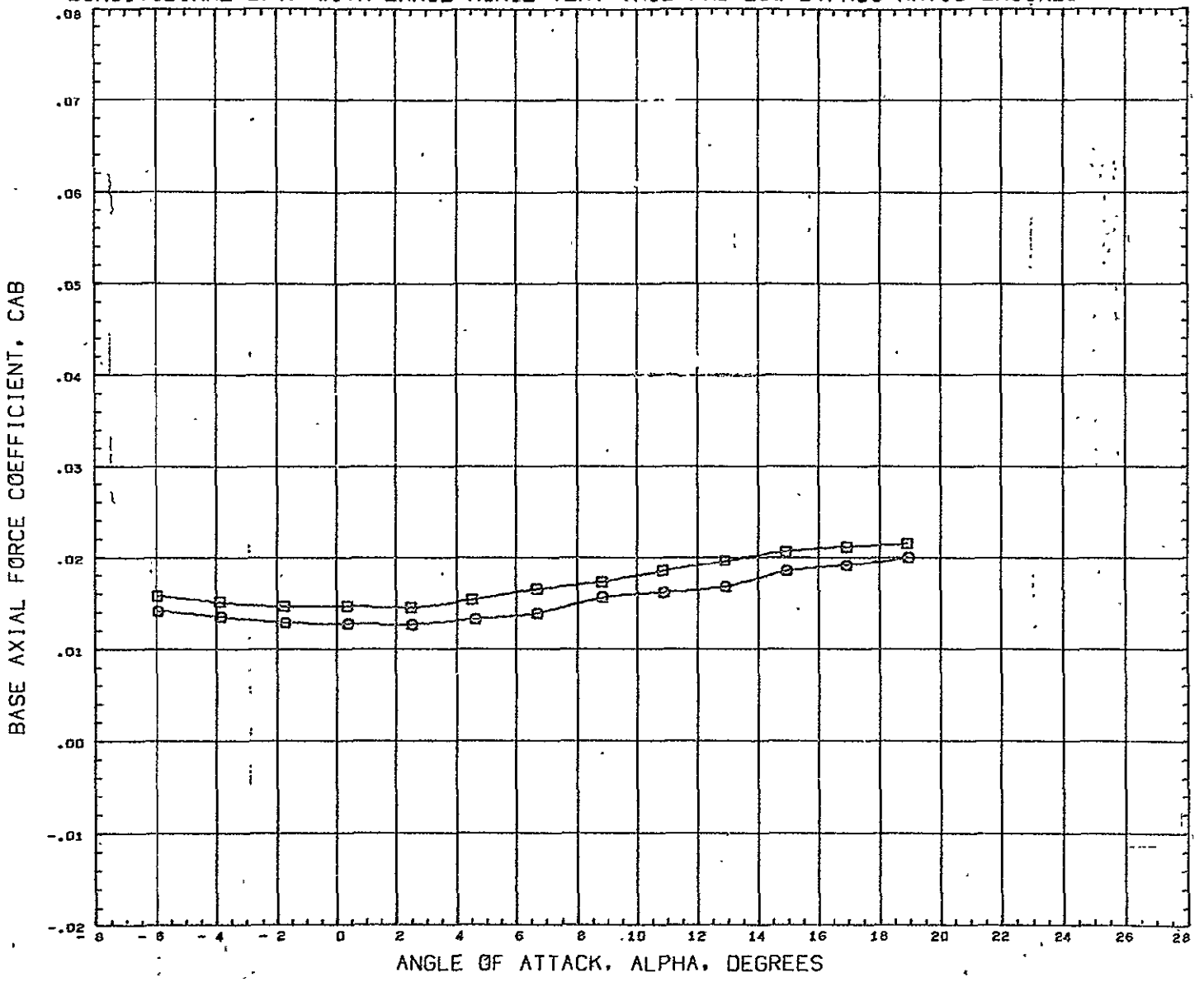
□	0.000	RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND LOW-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
○	- 10.000
□	0.000

PARAMETRIC VALUES

MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
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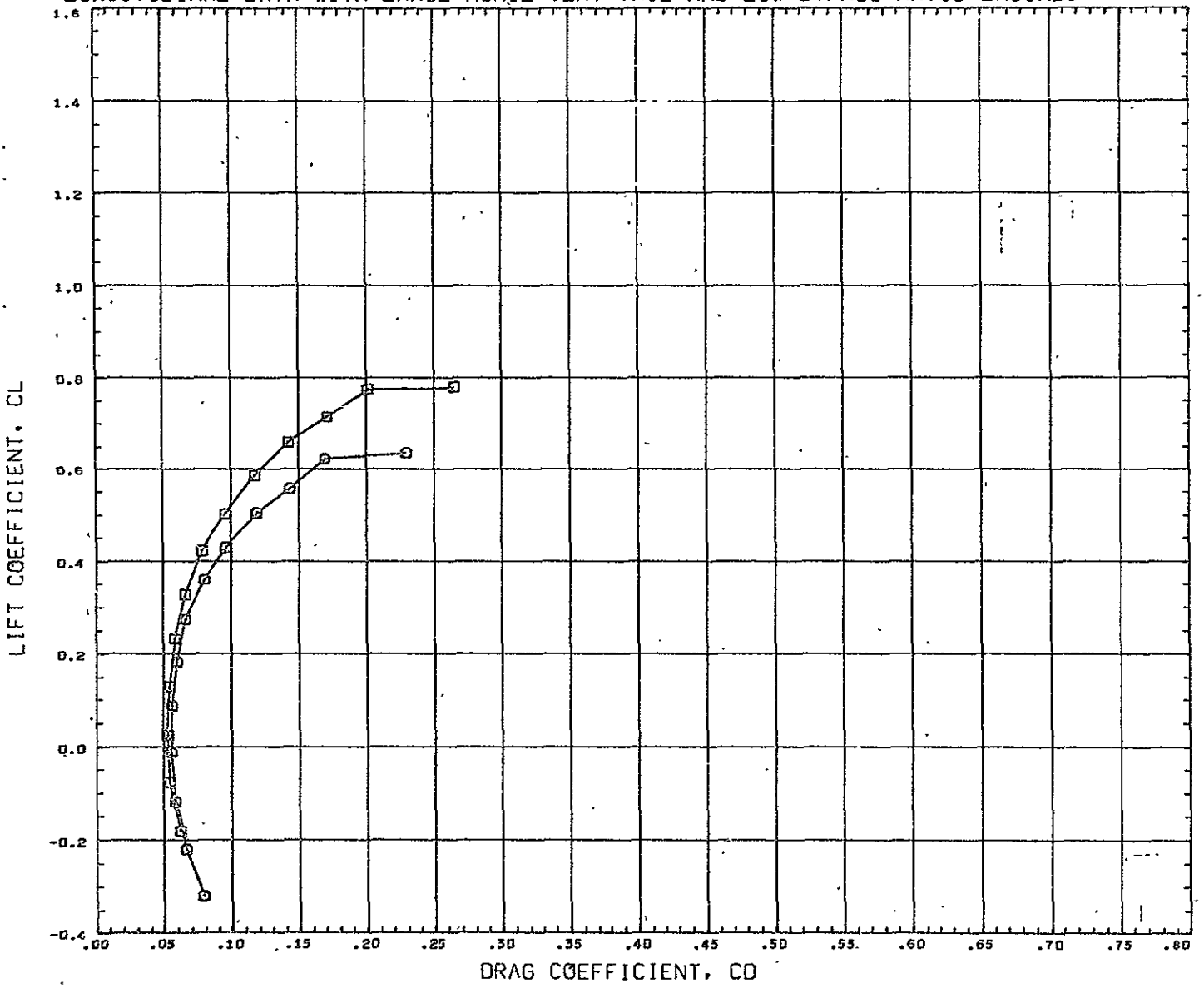
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND LOW-BYPASS RATIO ENGINES



SYMBOL	ELEVTR	PARAMETRIC VALUES			
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□	0.000	RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
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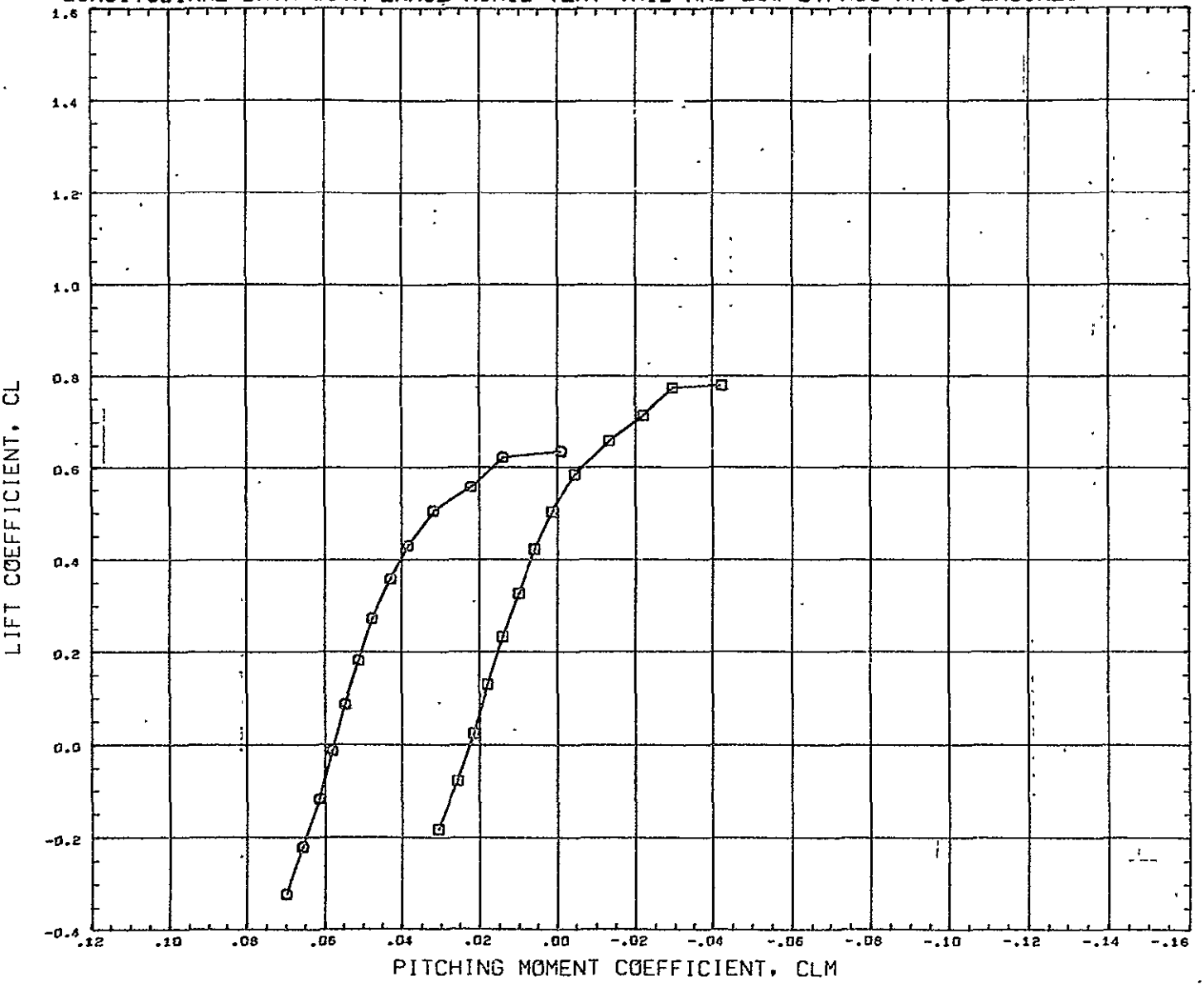
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND LOW-BYPASS RATIO ENGINES



SYMBOL	ELEVTR
○	- 10.000
□	0.000

PARAMETRIC VALUES

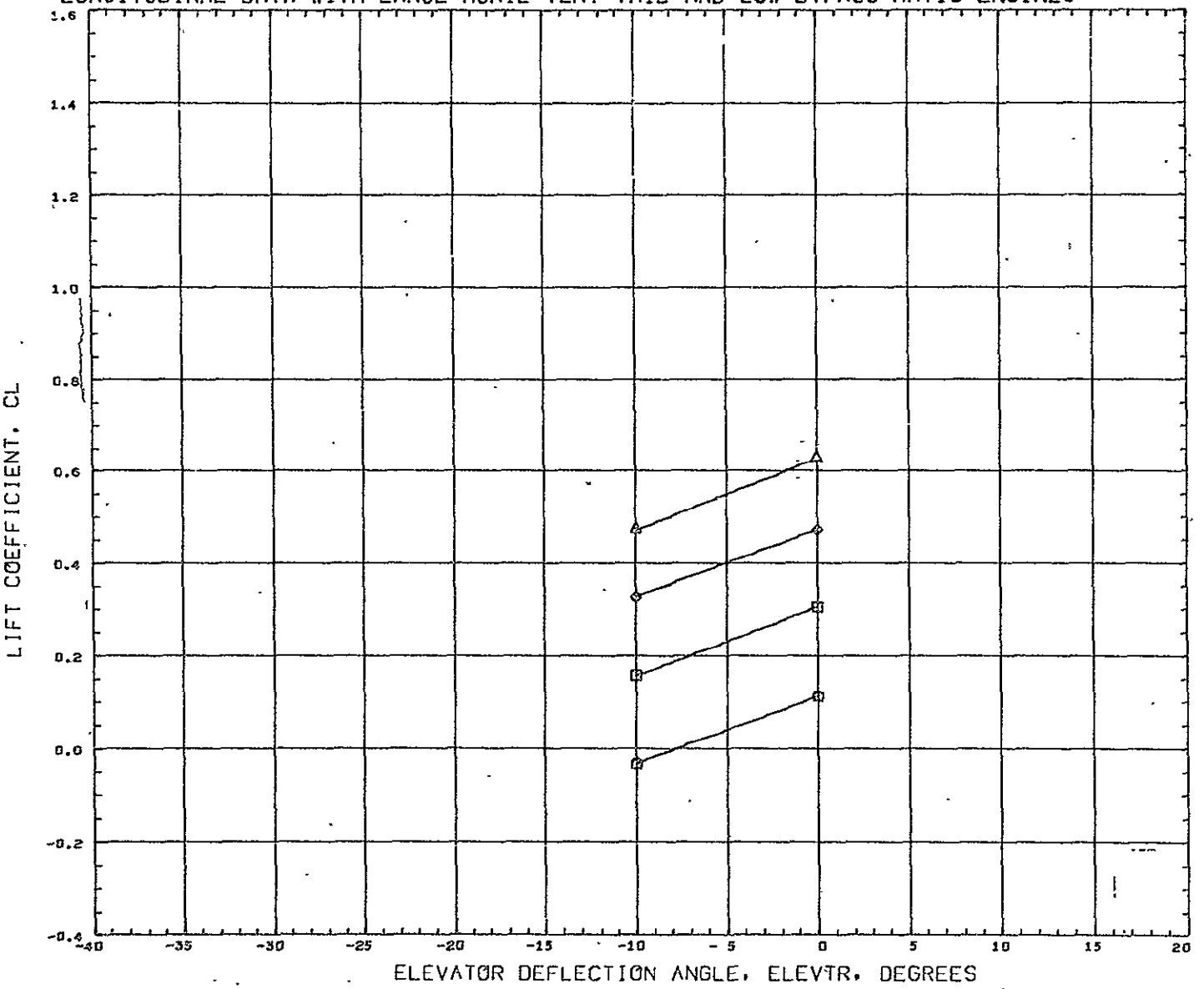
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

REFERENCE FILE CONVAIR TN70-AE-12

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND LOW-BYPASS RATIO ENGINES



SYMBOL	ALPHA		PARAMETRIC VALUES			
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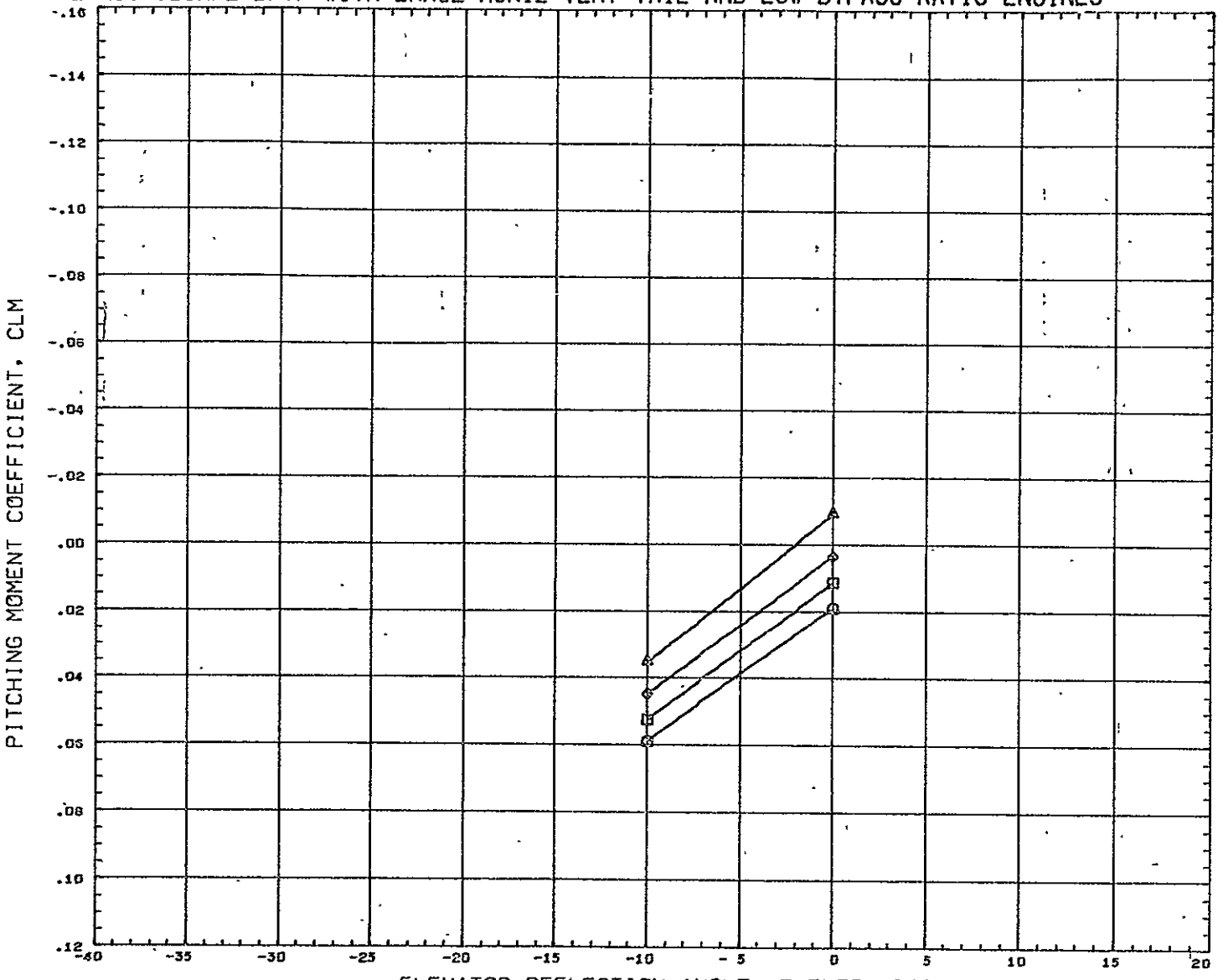
□	4.000	RUDDER	0.000	FLAPS	0.000	
◇	8.000	SPOILR	0.000	ENGINE	18.000	
△	12.000					

DATA HIST. CODE I

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND LOW-BYPASS RATIO ENGINES



SYMBOL	ALPHA		PARAMETRIC VALUES		
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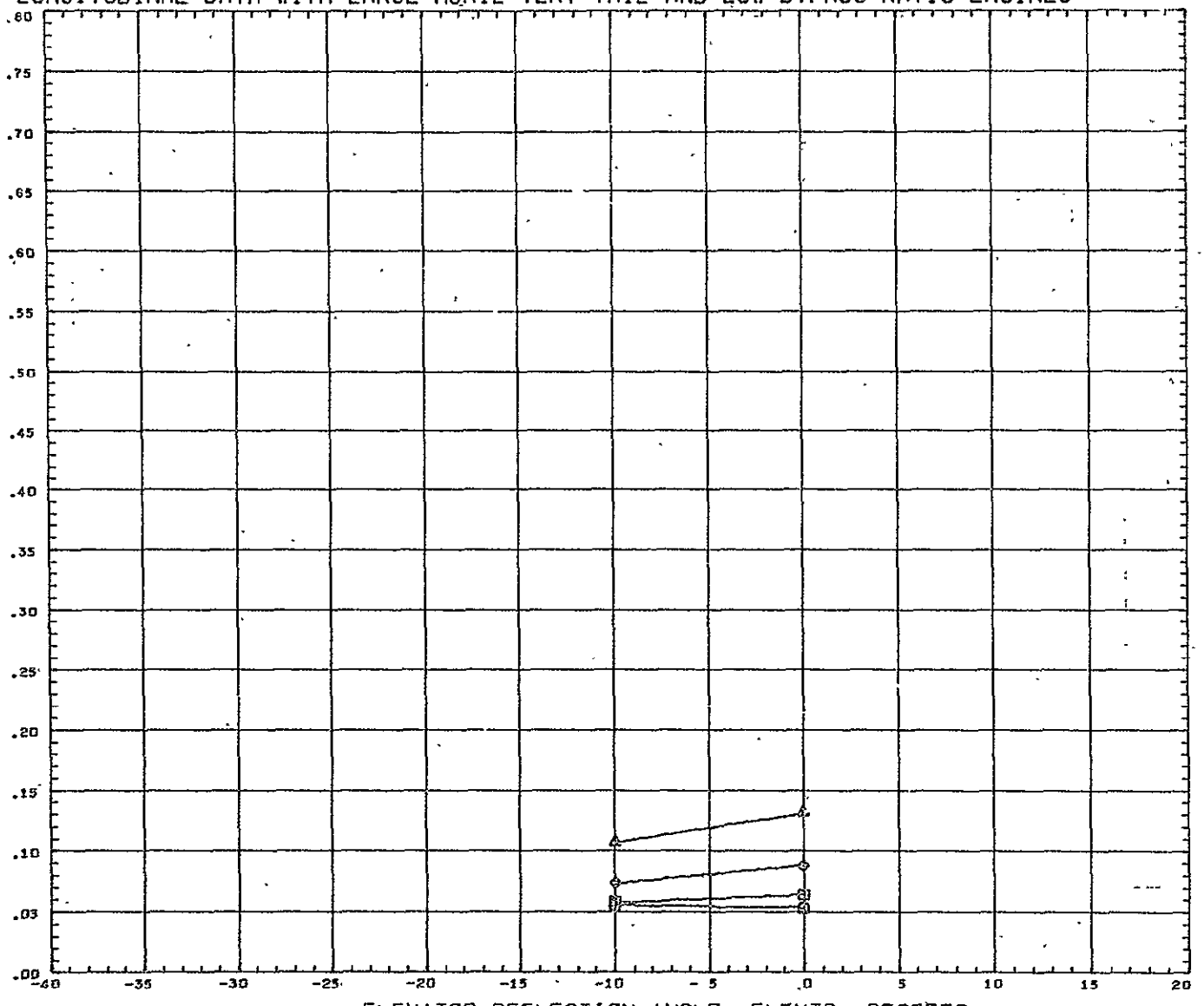
□	4.000	RUDDER	0.000	FLAPS	0.000
◇	8.000	SPOILR	0.000	ENGINE	18.000
△	12.000				

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA WITH LARGE HORIZ-VERT TAIL AND LOW-BYPASS RATIO ENGINES



SYMBOL	ALPHA
○	0.000
□	4.000
◇	8.000
△	12.000

PARAMETRIC VALUES

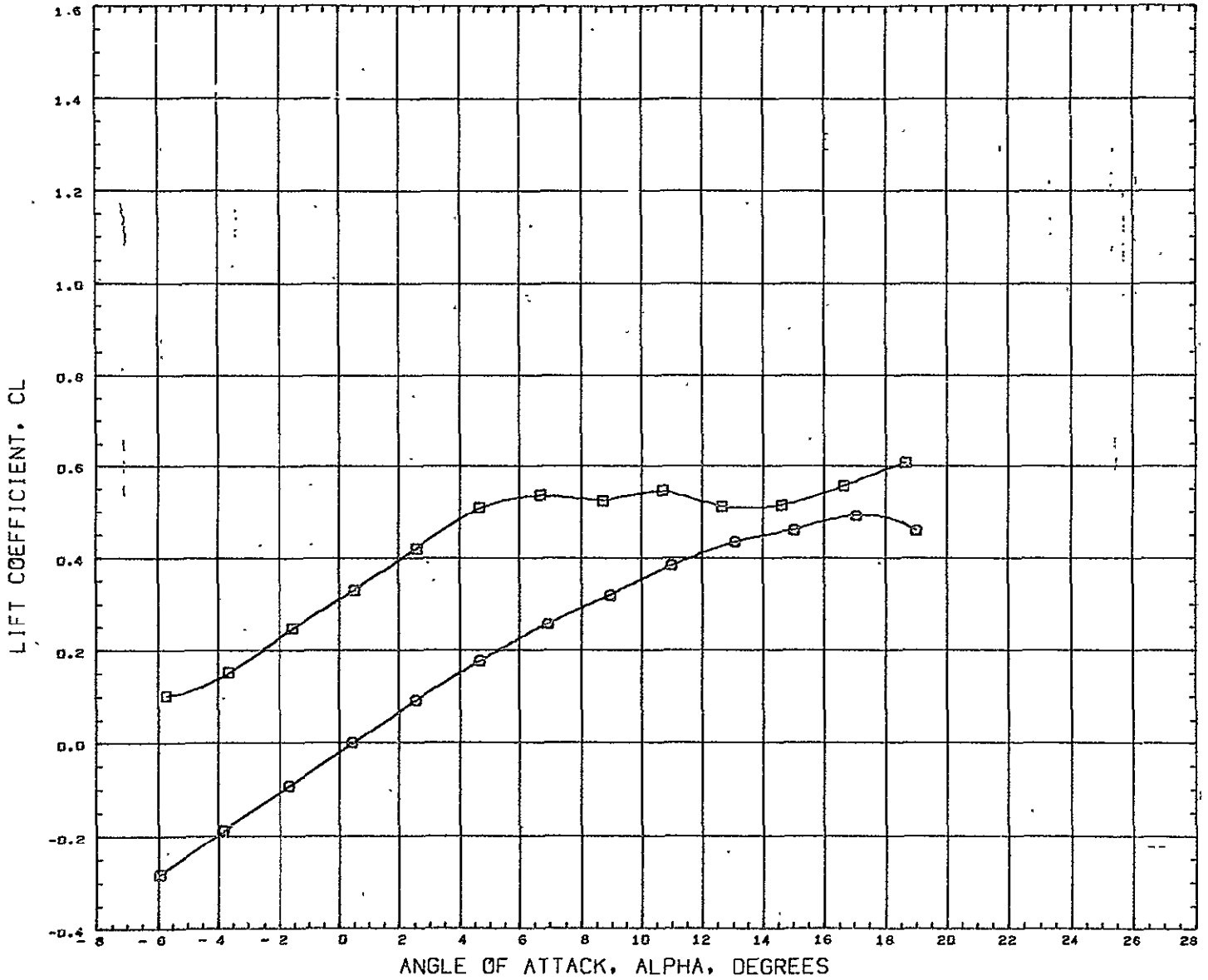
MACH	0.259	BETA	0.000	
RUDDER	0.000	FLAPS	0.000	
SPOILR	0.000	ENGINE	18.000	

DATA HIST. CODE I

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3590	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES



SYMBOL	FLAPS
○	0.000
□	45.000

PARAMETRIC VALUES

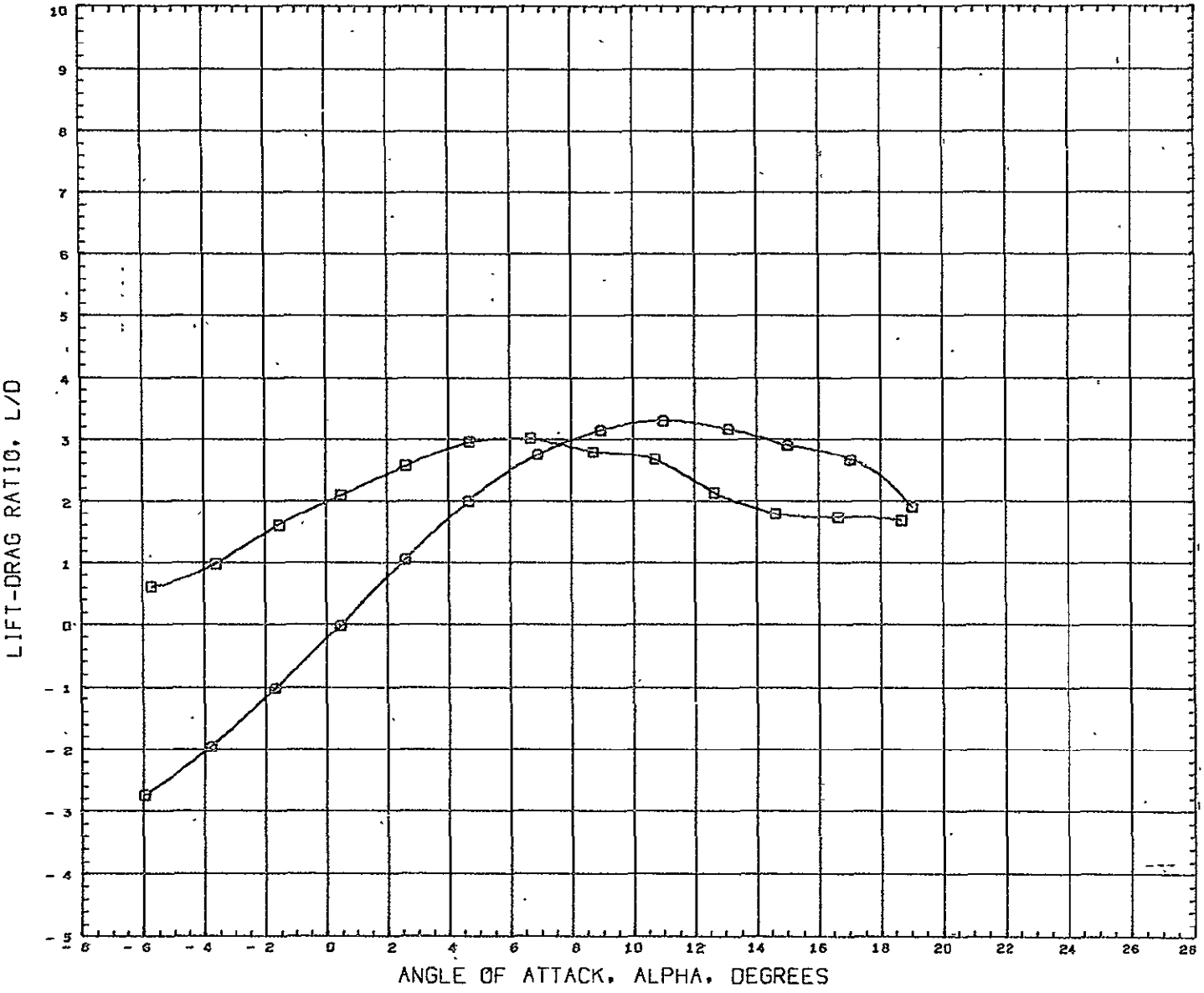
MACH	0.259	BETA	0.000
ELEVTR	- 30.000	RUDDER	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3926	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES

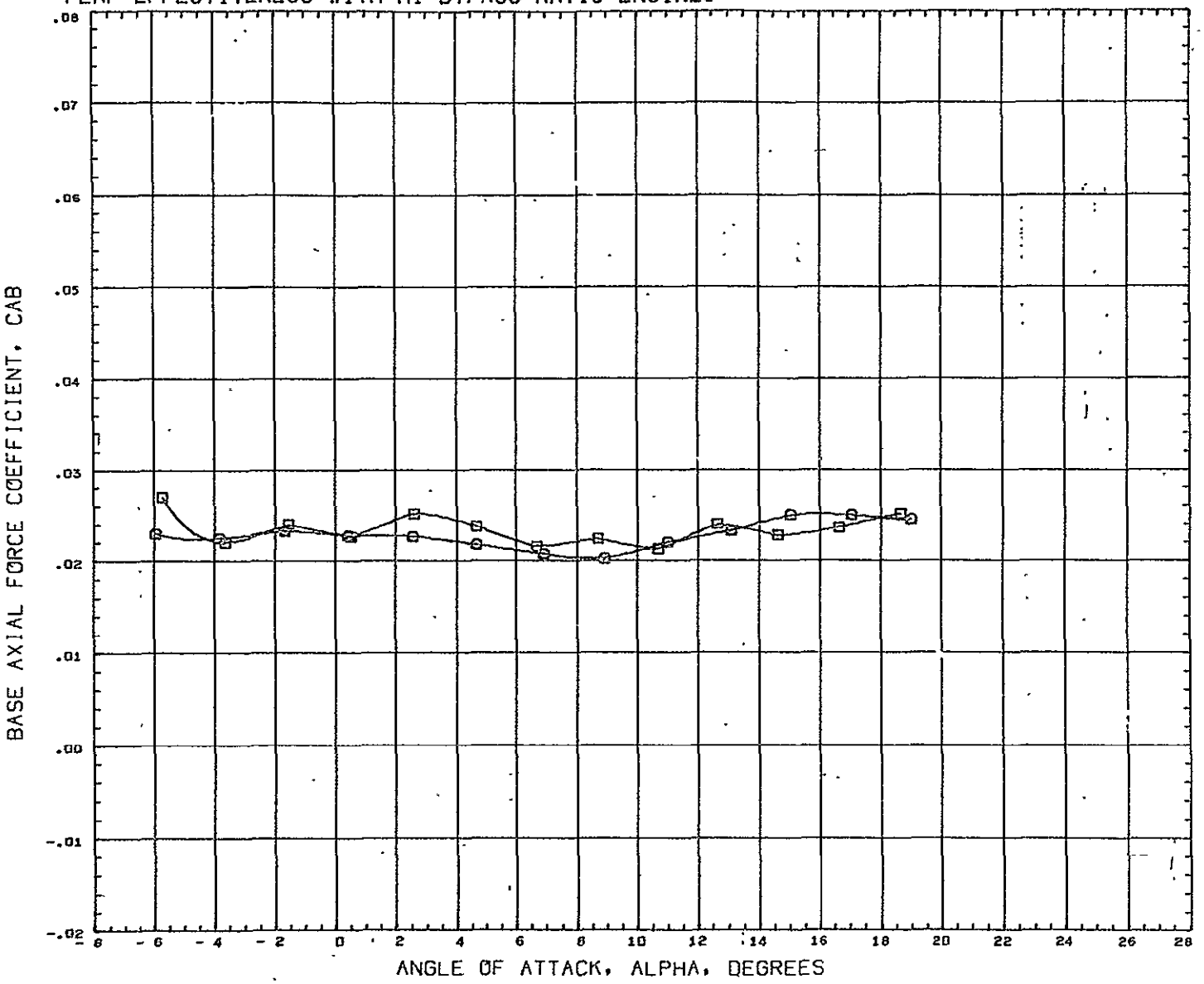


SYMBOL	FLAPS		PARAMETRIC VALUES		
○	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	-30.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES



SYMBOL	FLAPS
O	0.000
□	45.000

PARAMETRIC VALUES

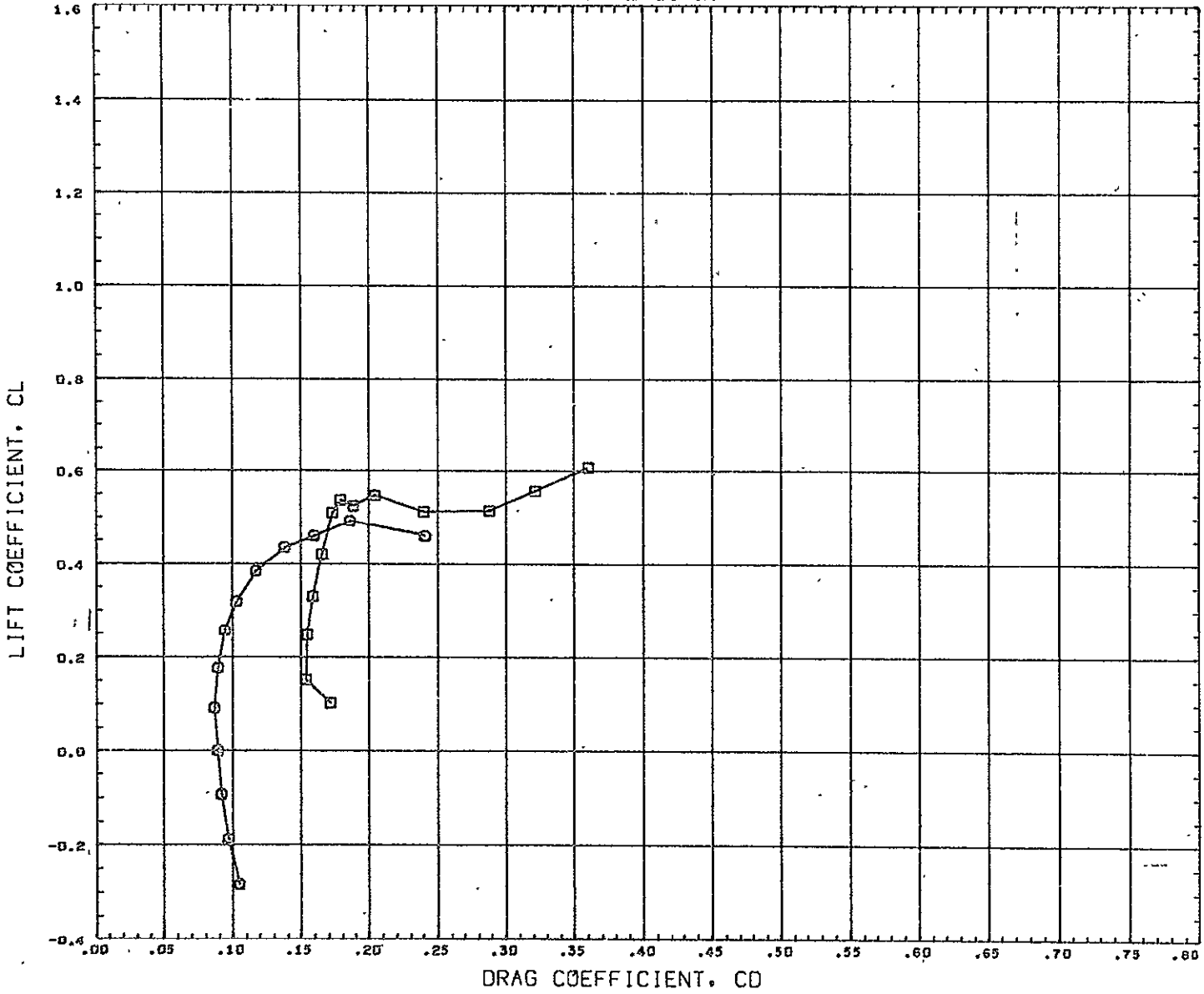
MACH	0.259	BETA	0.000
ELEVTR	- 30.000	RUDDER	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES

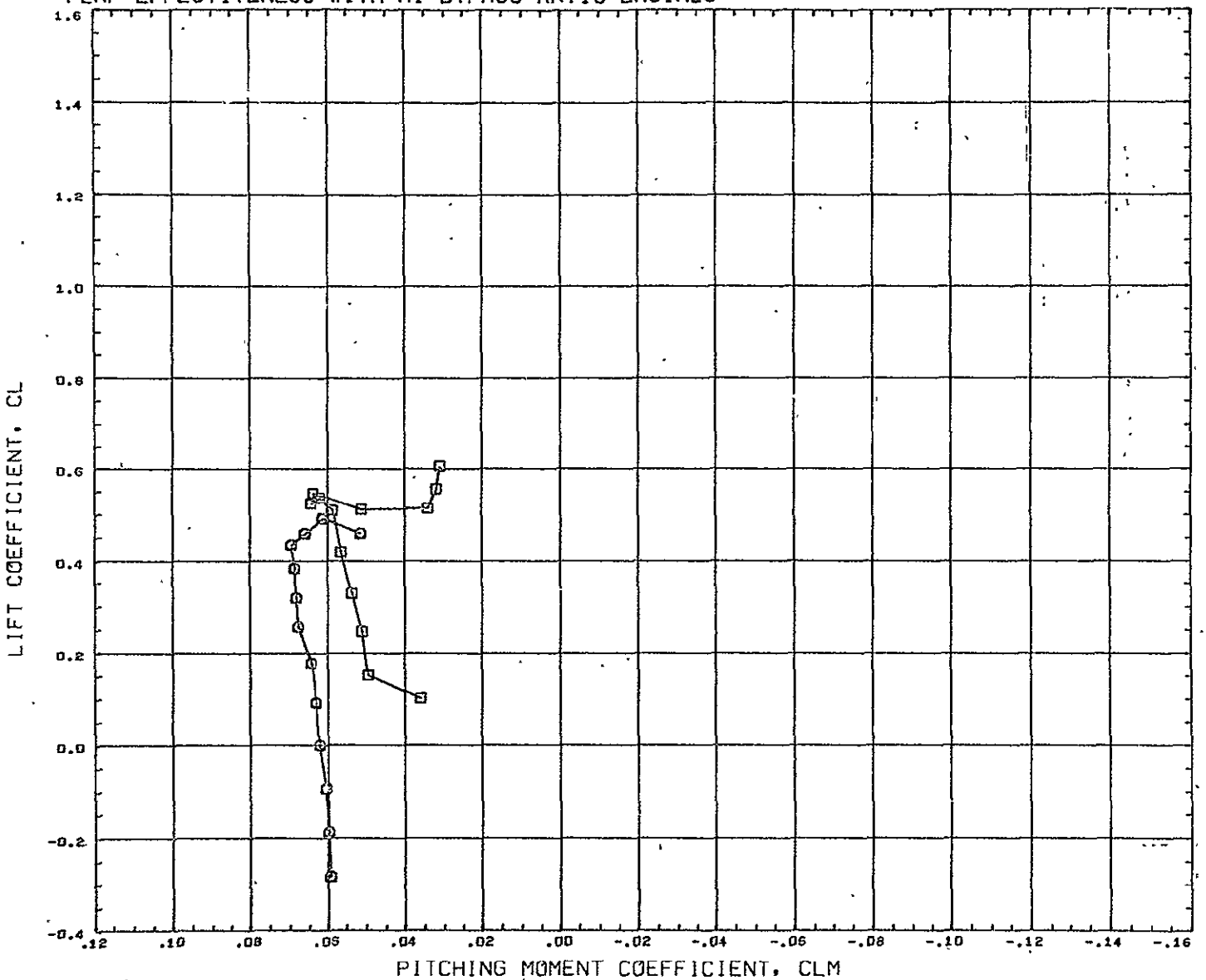


SYMBOL	FLAPS		PARAMETRIC VALUES		
○	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	- 30.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES



SYMBOL	FLAPS
□	0.000
□	45.000

PARAMETRIC VALUES

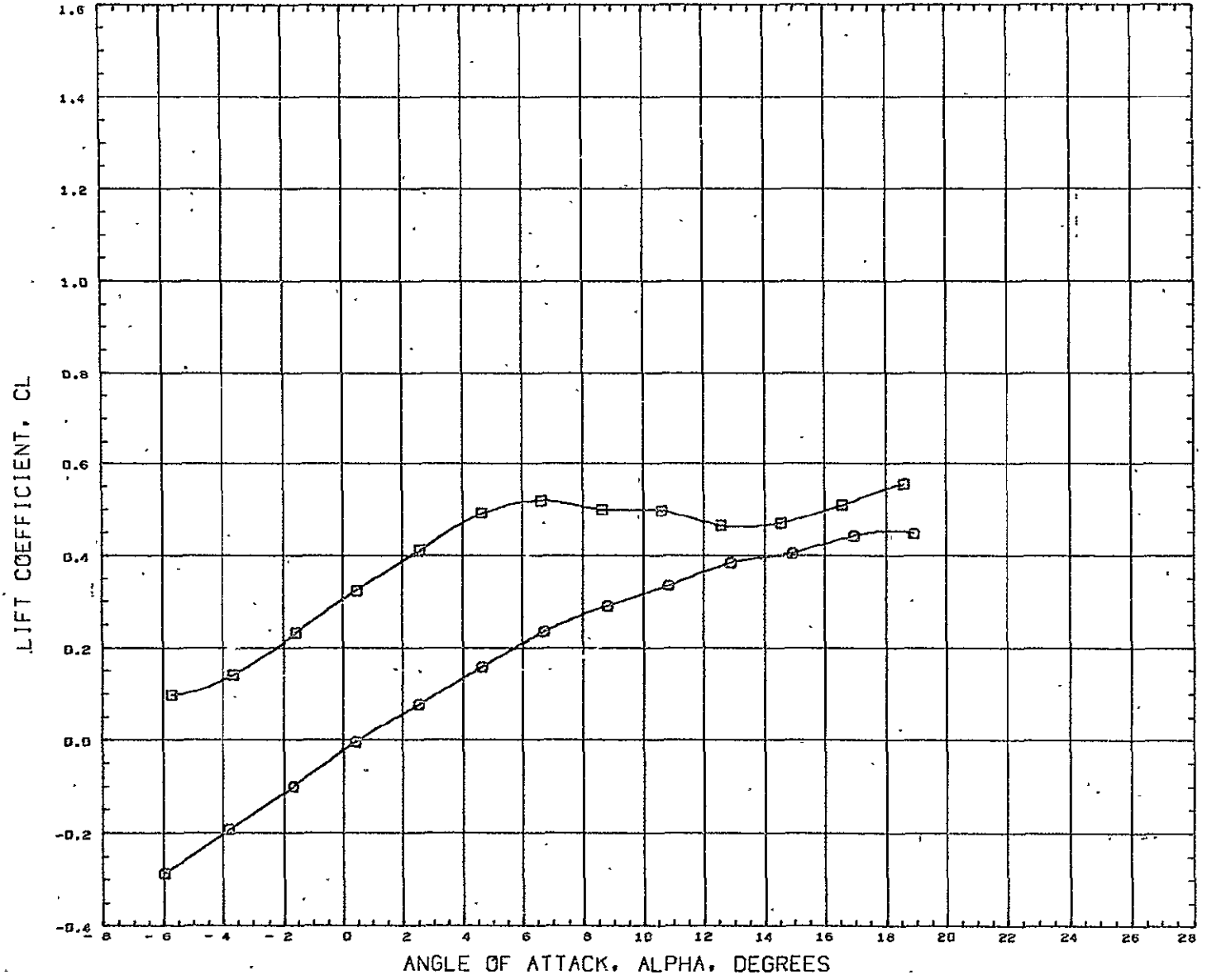
MACH	0.259	BETA	0.000
ELEVTR	- 30.000	RUDDER	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES

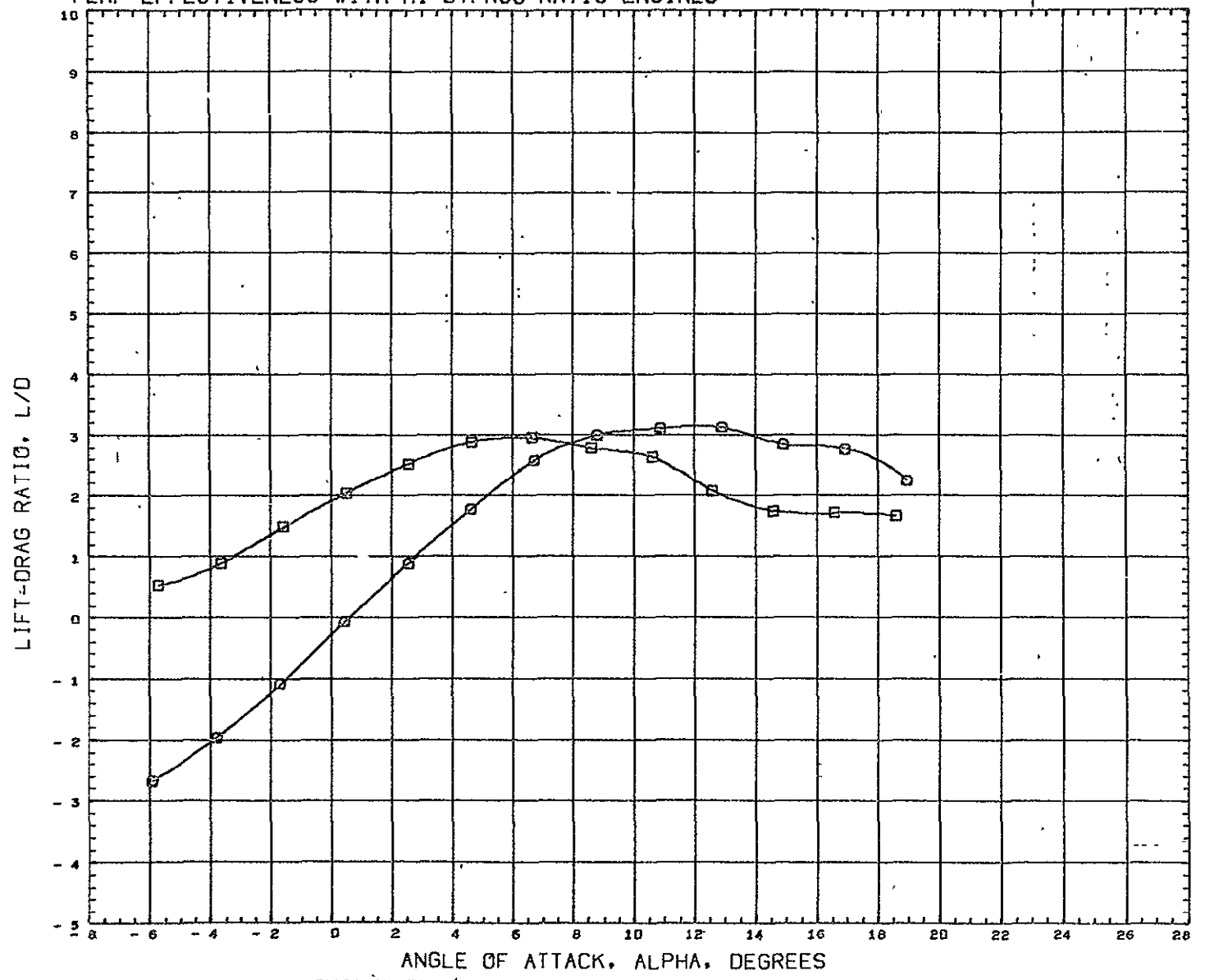


SYMBOL	FLAPS	PARAMETRIC VALUES			
○	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	- 30.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES



SYMBOL	FLAPS
○	0.000
□	45.000

PARAMETRIC VALUES

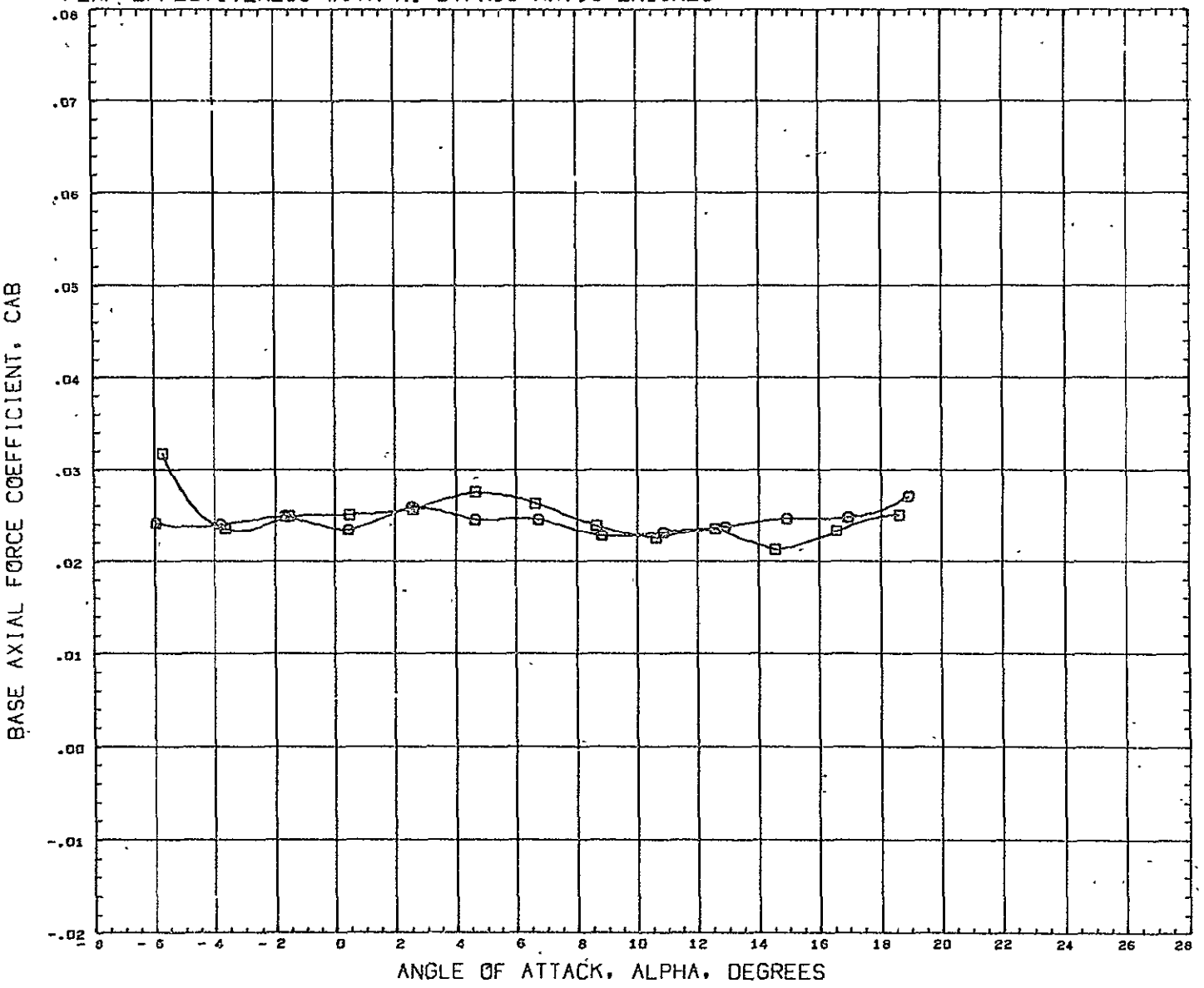
MACH	0.259	BETA	0.000
ELEVTR	- 30.000	RUDDER	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

REFERENCE FILE CONVAIR TN70-AE-12

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES



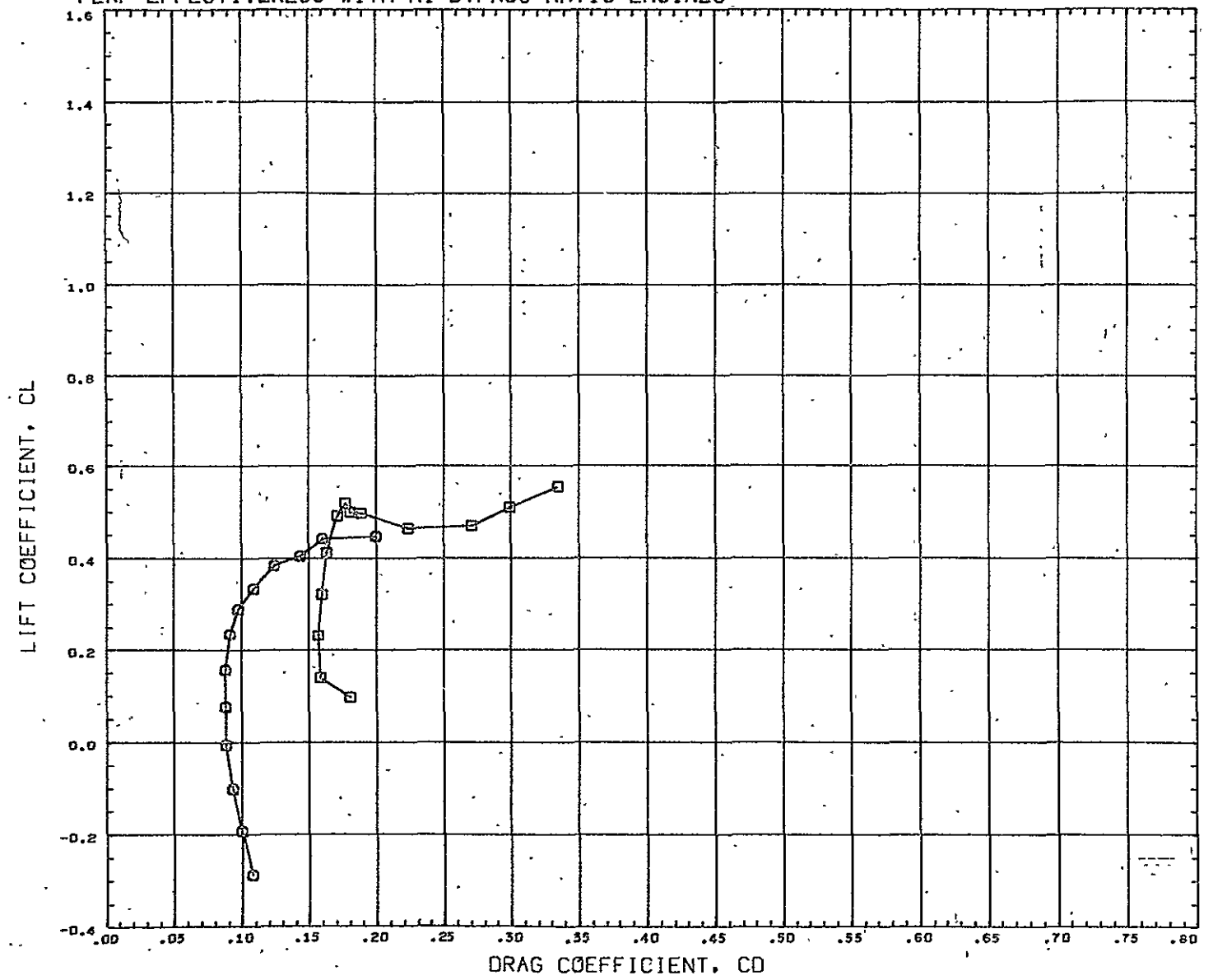
SYMBOL	FLAPS		PARAMETRIC VALUES		
O	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	-30.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES

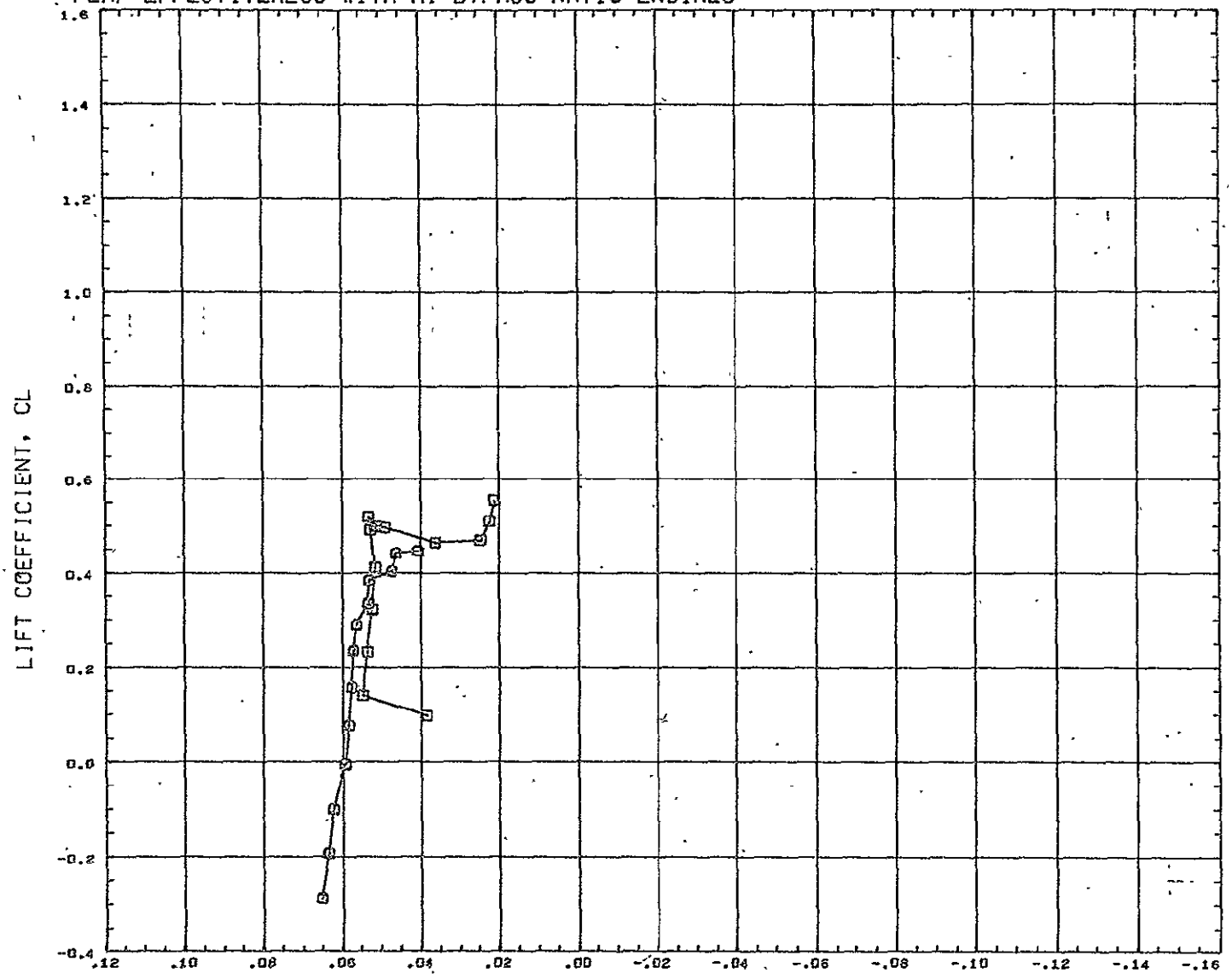


SYMBOL	FLAPS	PARAMETRIC VALUES			
O	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	- 30.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES



SYMBOL	FLAPS
○	0.000
□	45.000

PARAMETRIC VALUES

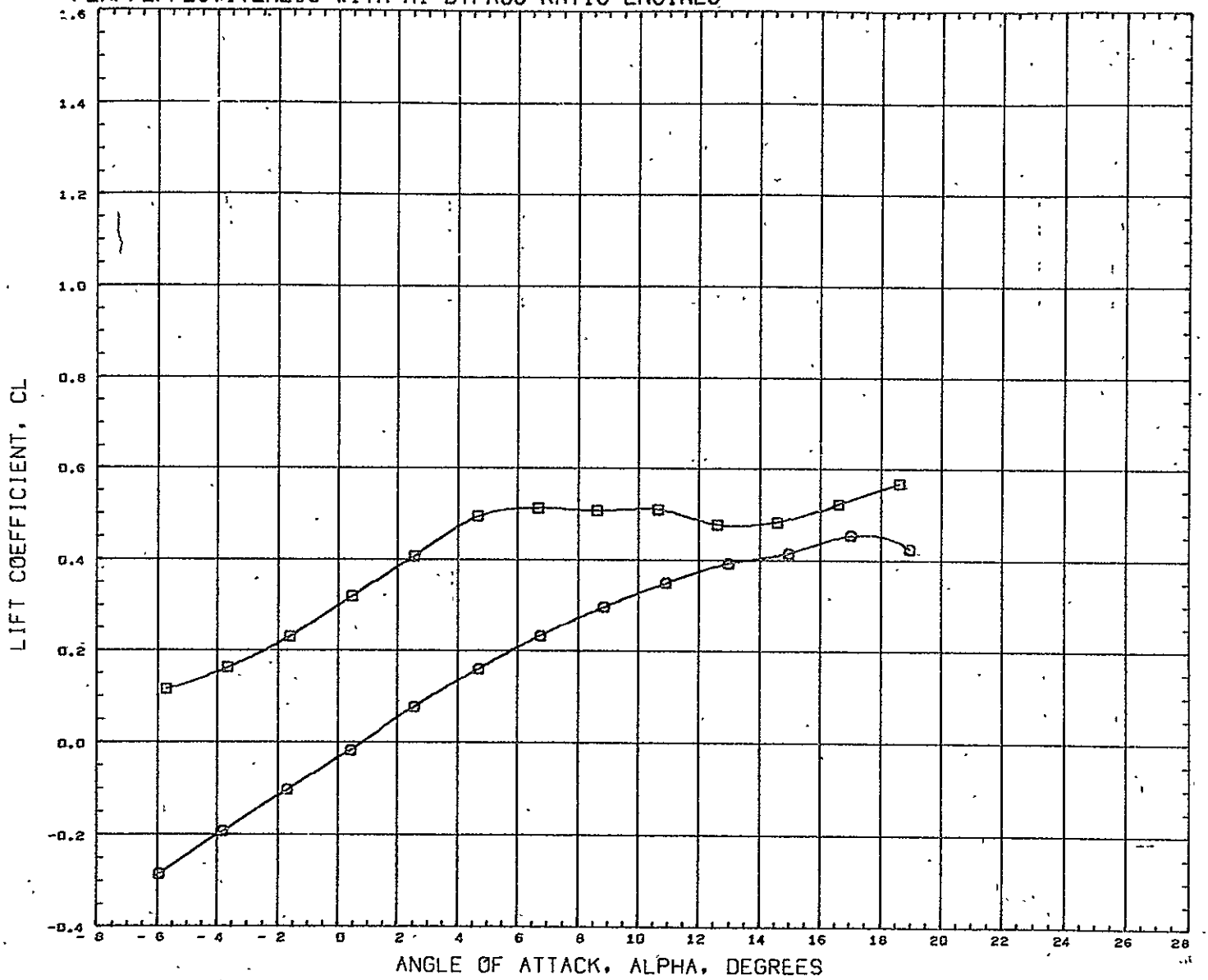
MACH	0.259	BETA	0.000
ELEVTR	- 30.000	RUDDER	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES

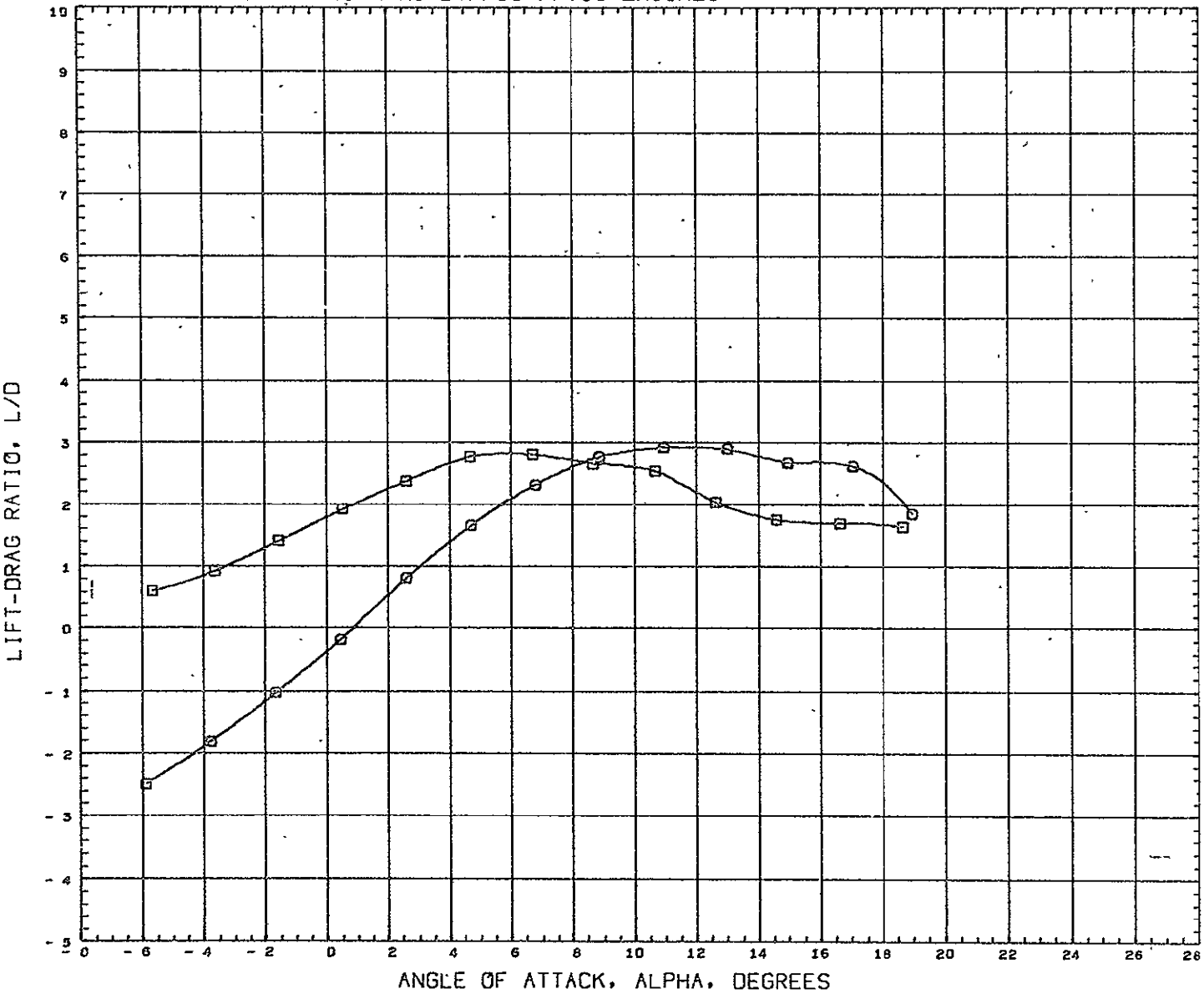


SYMBOL	FLAPS	PARAMETRIC VALUES			
○	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	- 30.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	26.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES

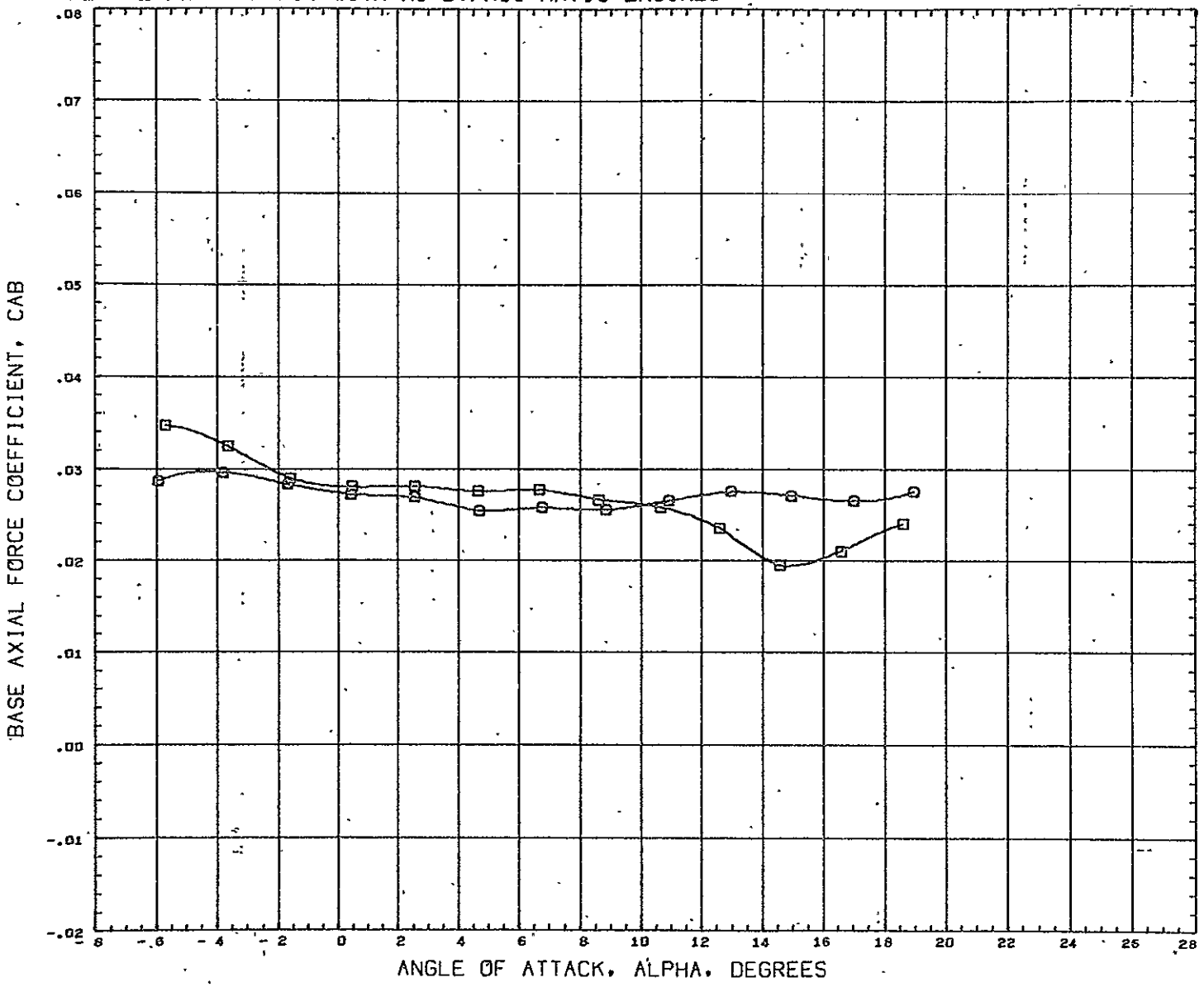


SYMBOL	FLAPS	PARAMETRIC VALUES			
○	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	-30.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	26.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES



SYMBOL	FLAPS
○	0.000
□	45.000

PARAMETRIC VALUES

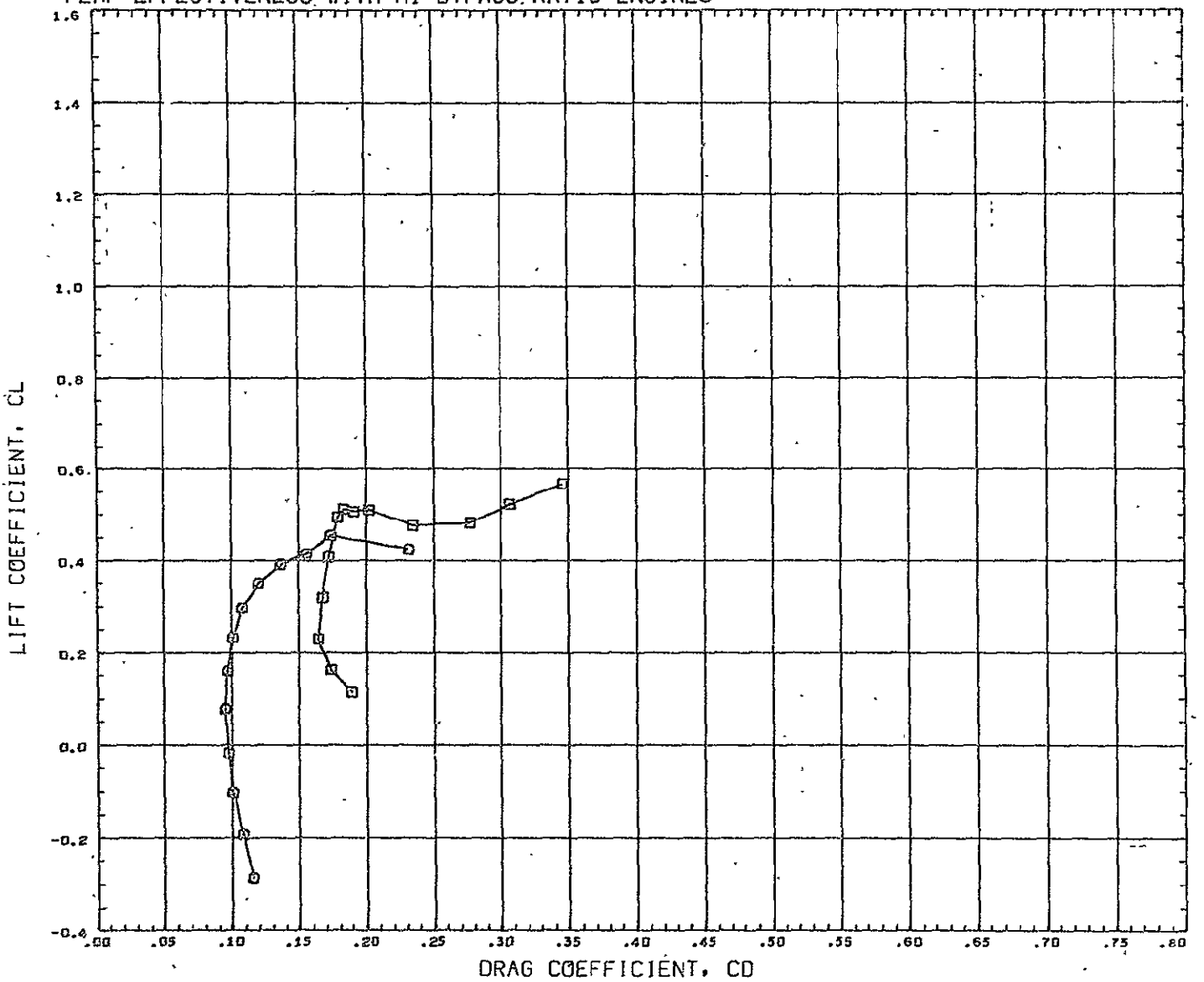
MACH	0.259	BETA	0.000
ELEVTR	- 30.000	RUDDER	0.000
SPOILR	0.000	ENGINE	26.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES



SYMBOL	FLAPS
○	0.000
□	45.000

PARAMETRIC VALUES

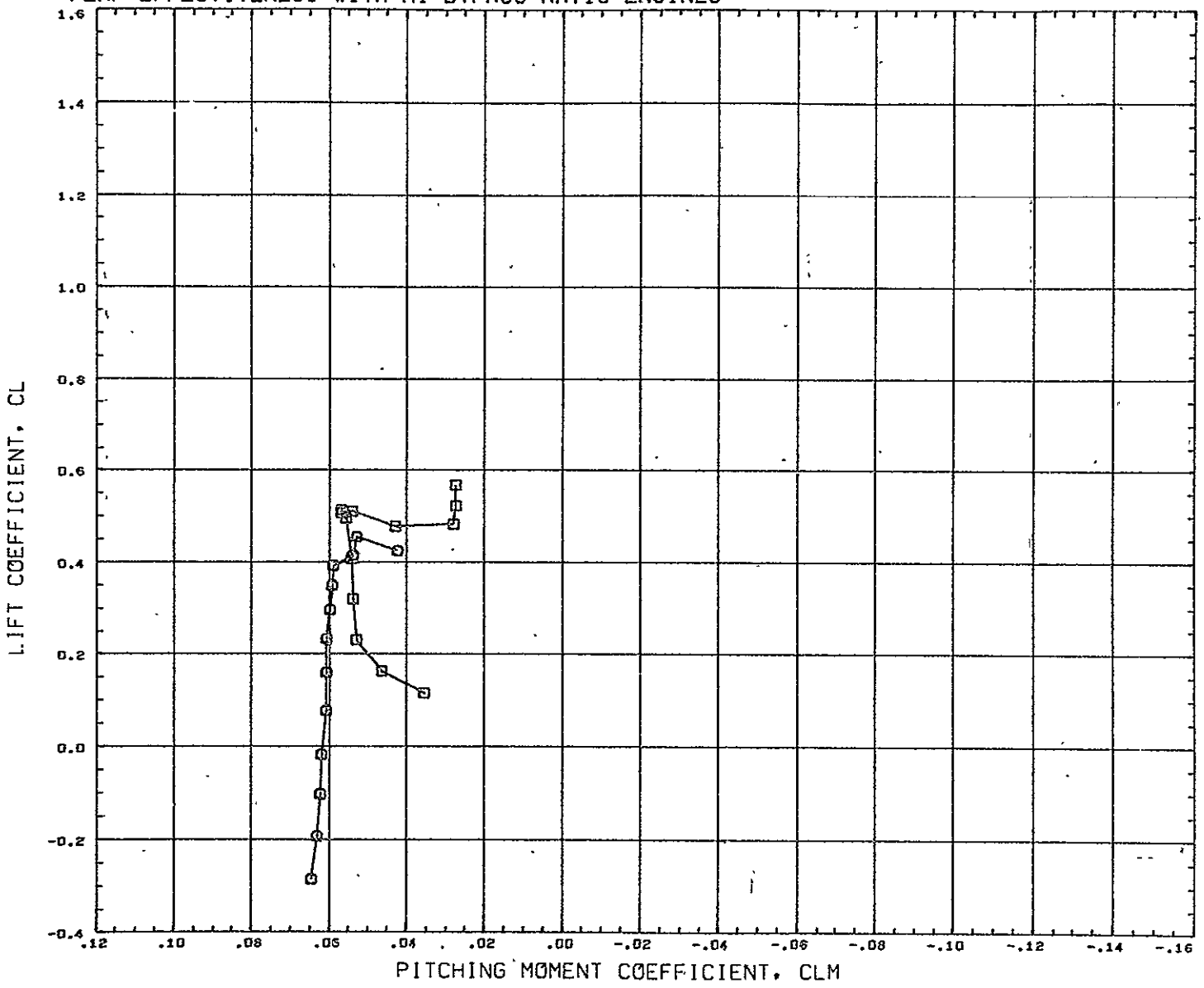
MACH	0.259	BETA	0.000
ELEVTR	- 30.000	RUDDER	0.000
SPOILR	0.000	ENGINE	26.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRF	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES



SYMBOL	FLAPS
○	0.000
□	45.000

PARAMETRIC VALUES

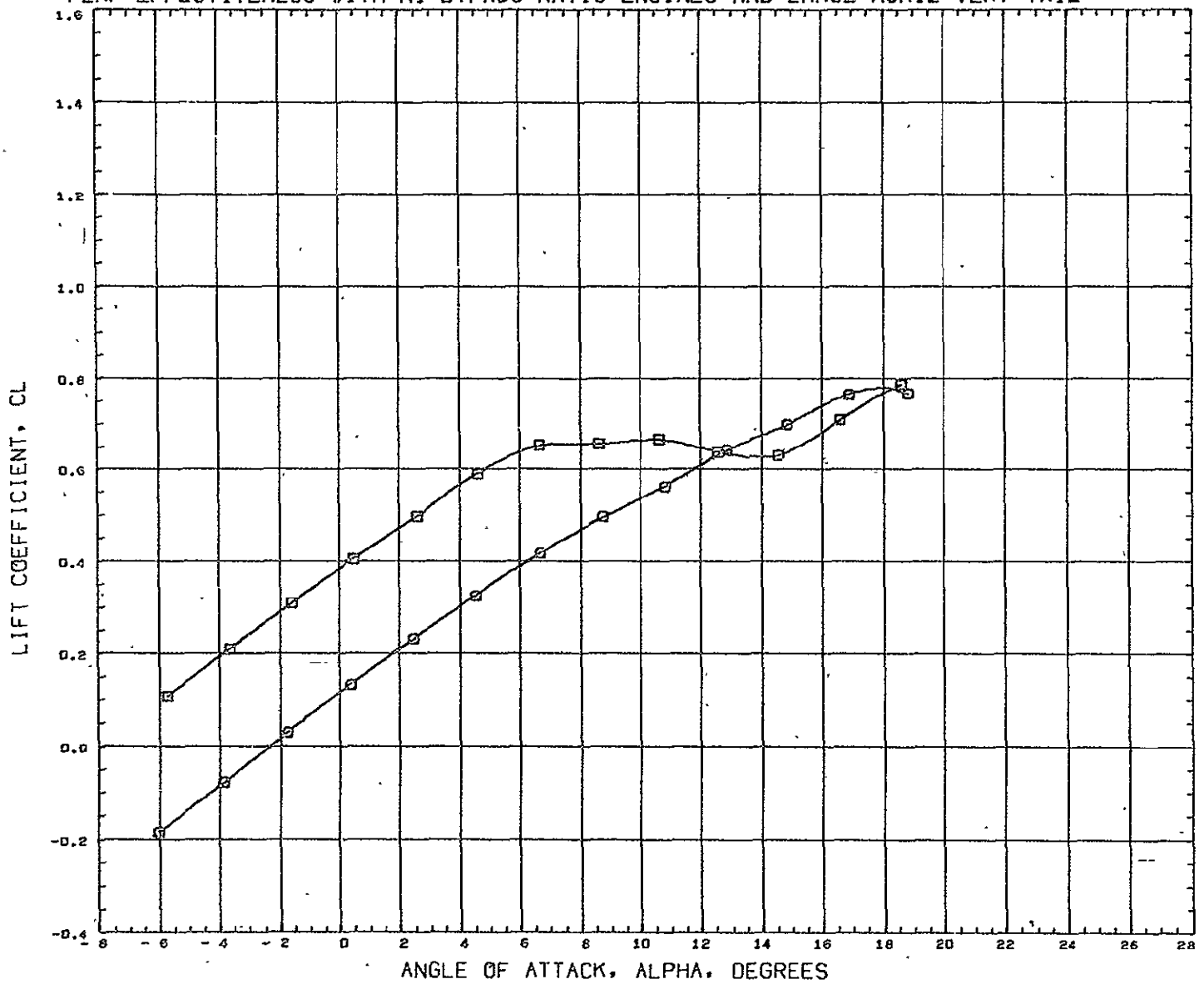
MACH	0.259	BETA	0.000
ELEVTR	- 30.000	RUDDER	0.000
SPOILR	0.000	ENGINE	26.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES AND LARGE HORIZ-VERT TAIL

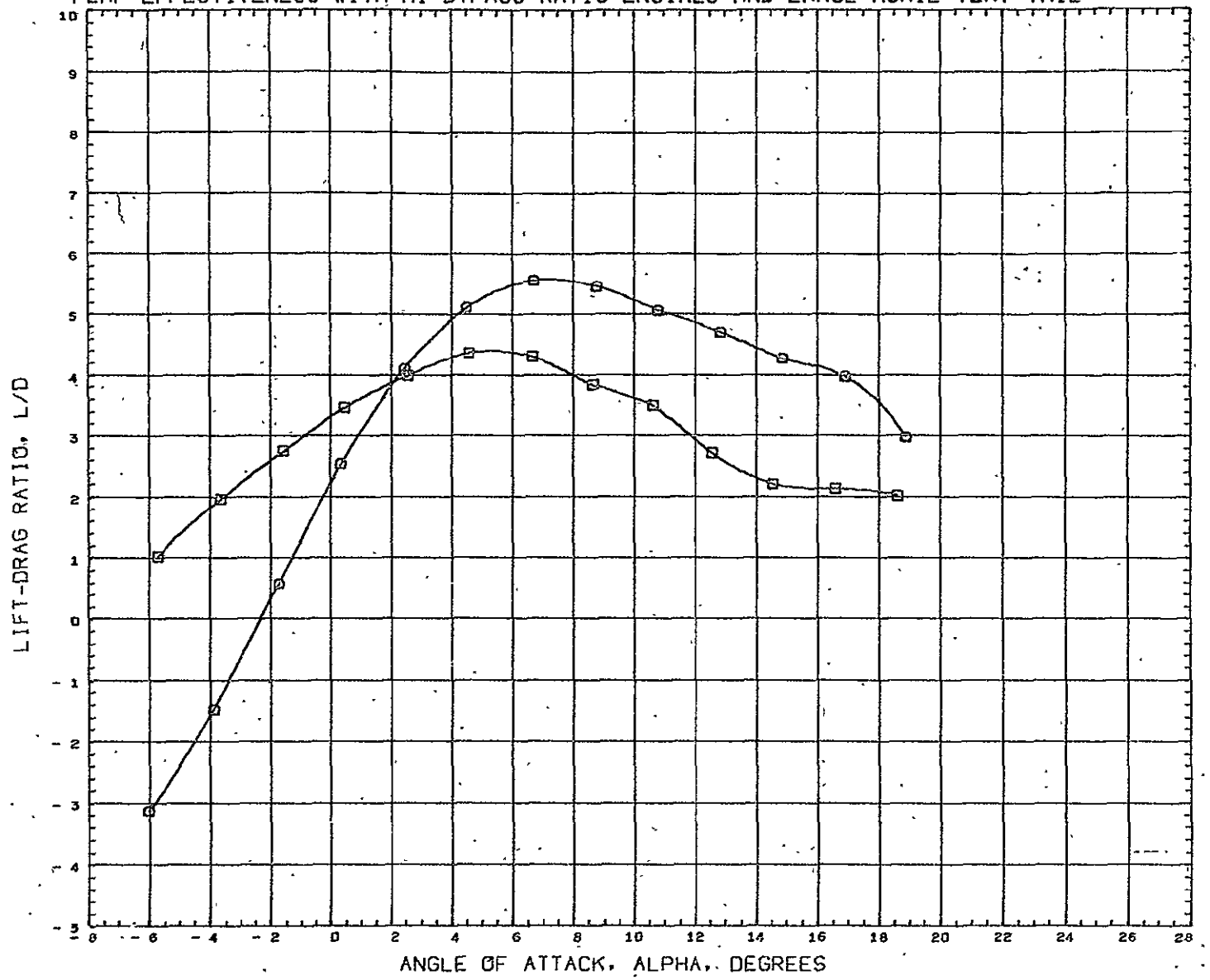


SYMBOL	FLAPS		PARAMETRIC VALUES		
O	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	0.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN7D-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES AND LARGE HORIZ-VERT TAIL

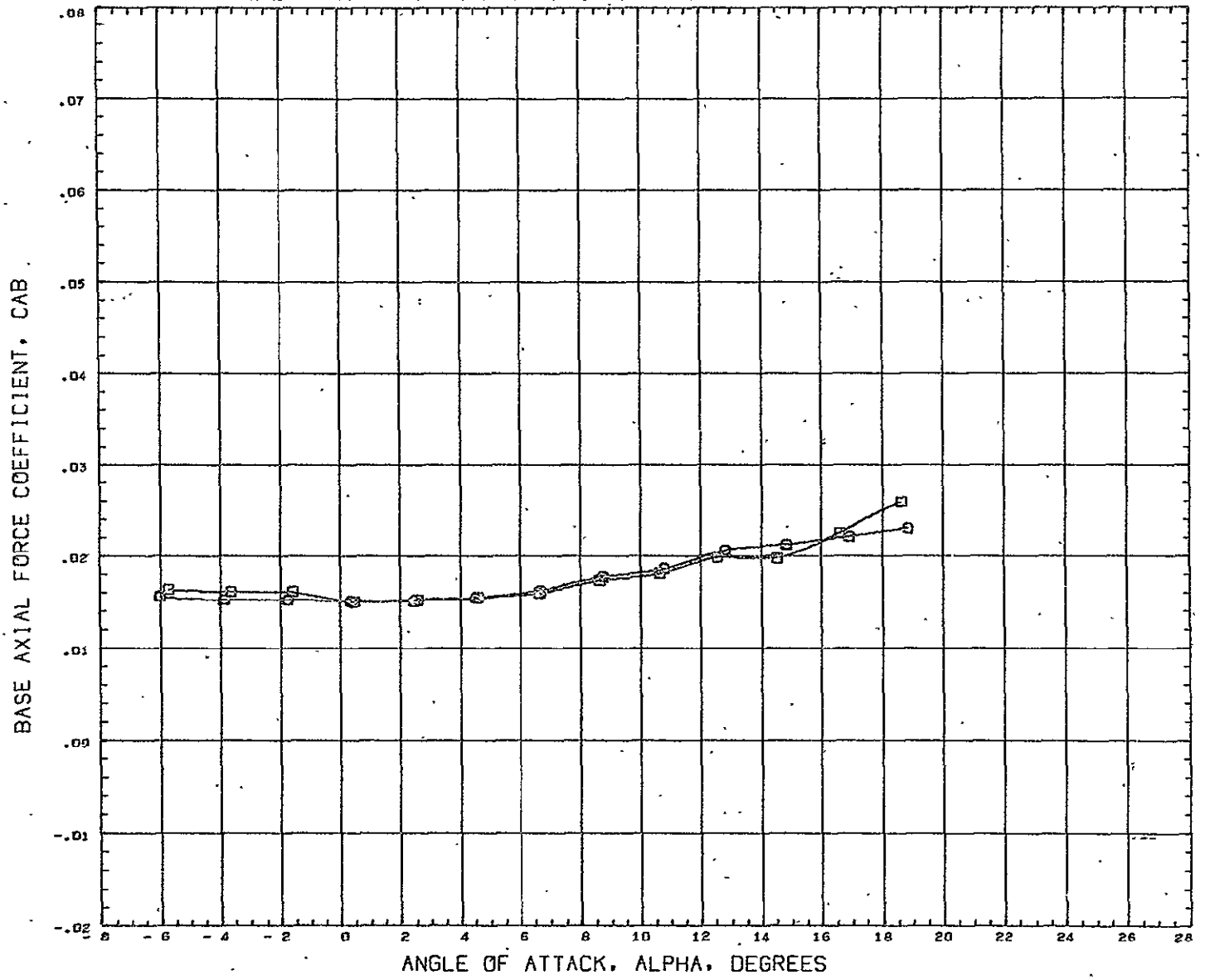


SYMBOL	FLAPS	PARAMETRIC VALUES			
O	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	0.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	26.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES AND LARGE HORIZ-VERT TAIL



SYMBOL	FLAPS
O	0.000
□	45.000

PARAMETRIC VALUES

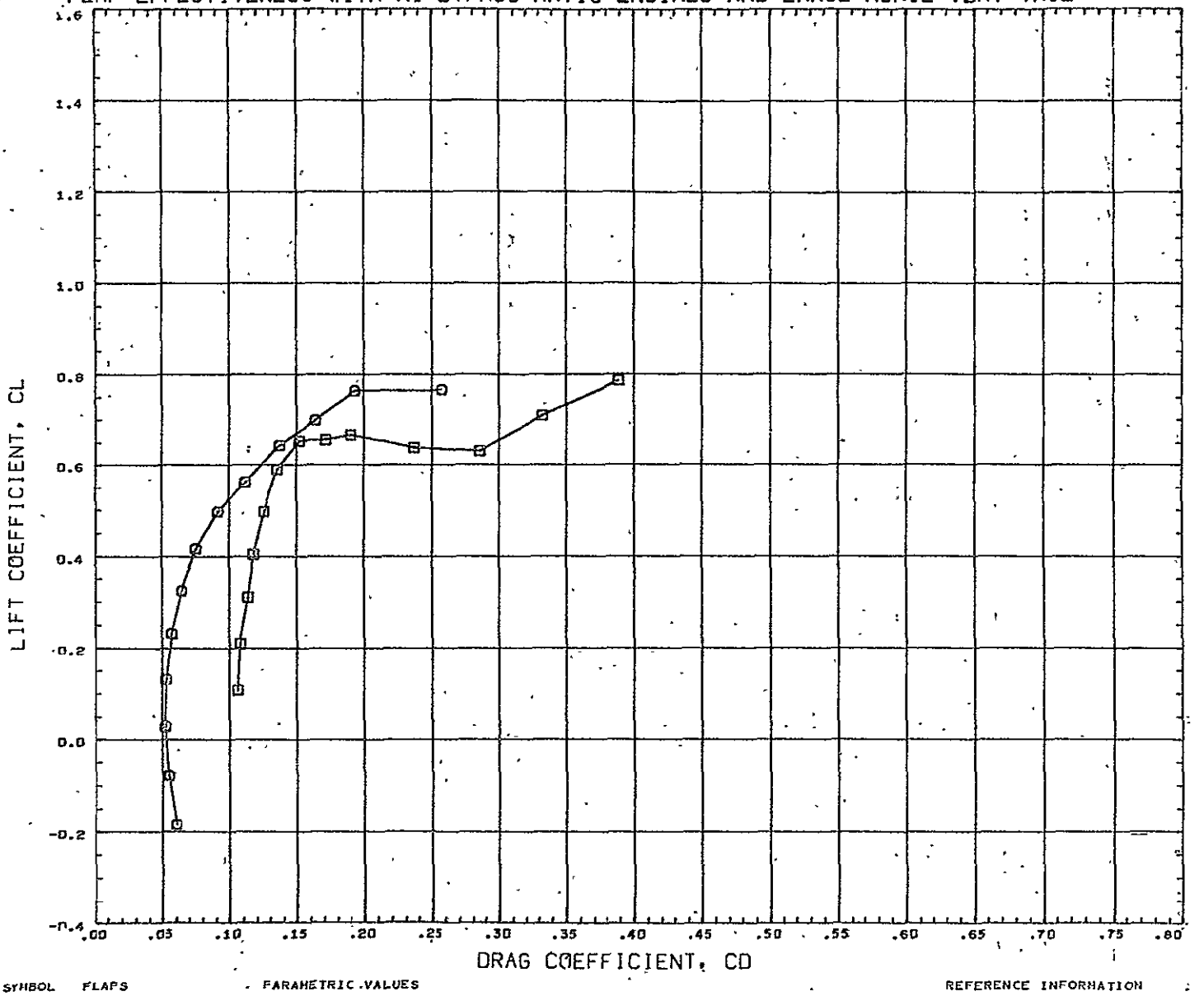
MACH	0.259	BETA	0.000
ELEVTR	0.000	RUDDER	0.000
SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIØ ENGINES AND LARGE HØRIZ-VERT TAIL

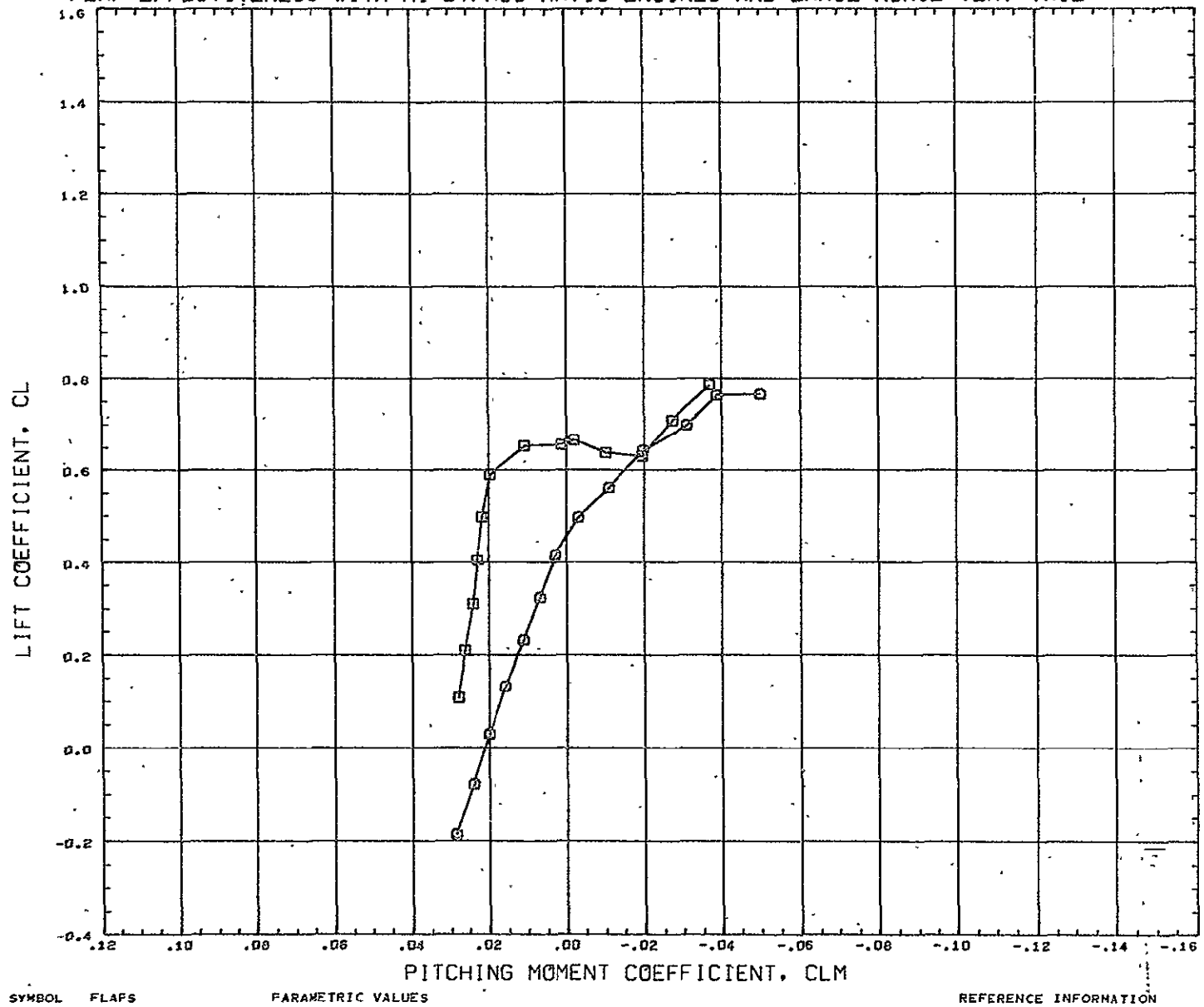


SYMBOL	FLAPS	PARAMETRIC VALUES			
○	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	0.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	71.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH HI-BYPASS RATIO ENGINES AND LARGE HORIZ-VERT TAIL

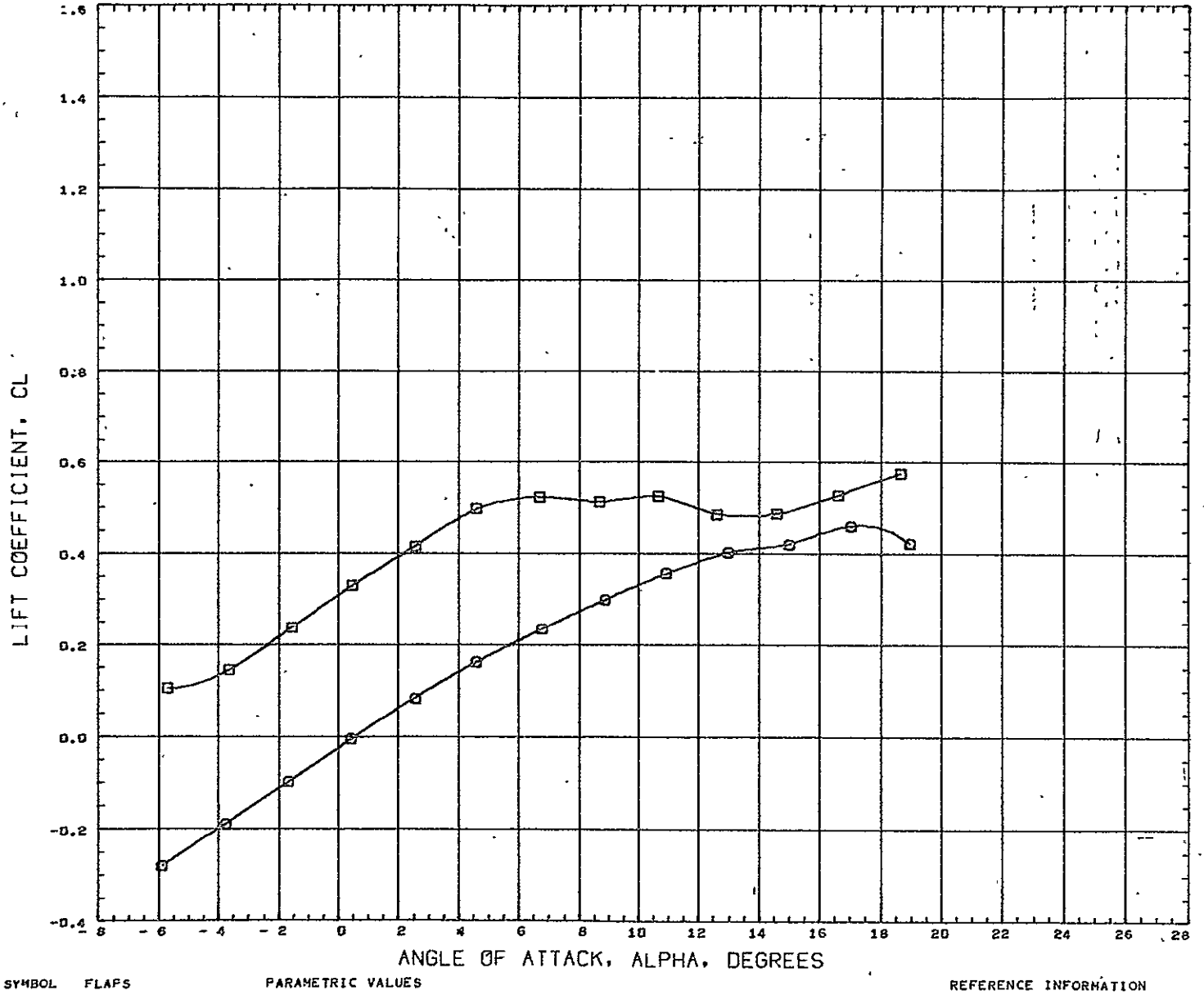


SYMBOL	FLAPS	PARAMETRIC VALUES			
○	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	0.000	RUDDER	0.000
		SFOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES



SYMBOL	FLAPS
○	0.000
□	45.000

PARAMETRIC VALUES

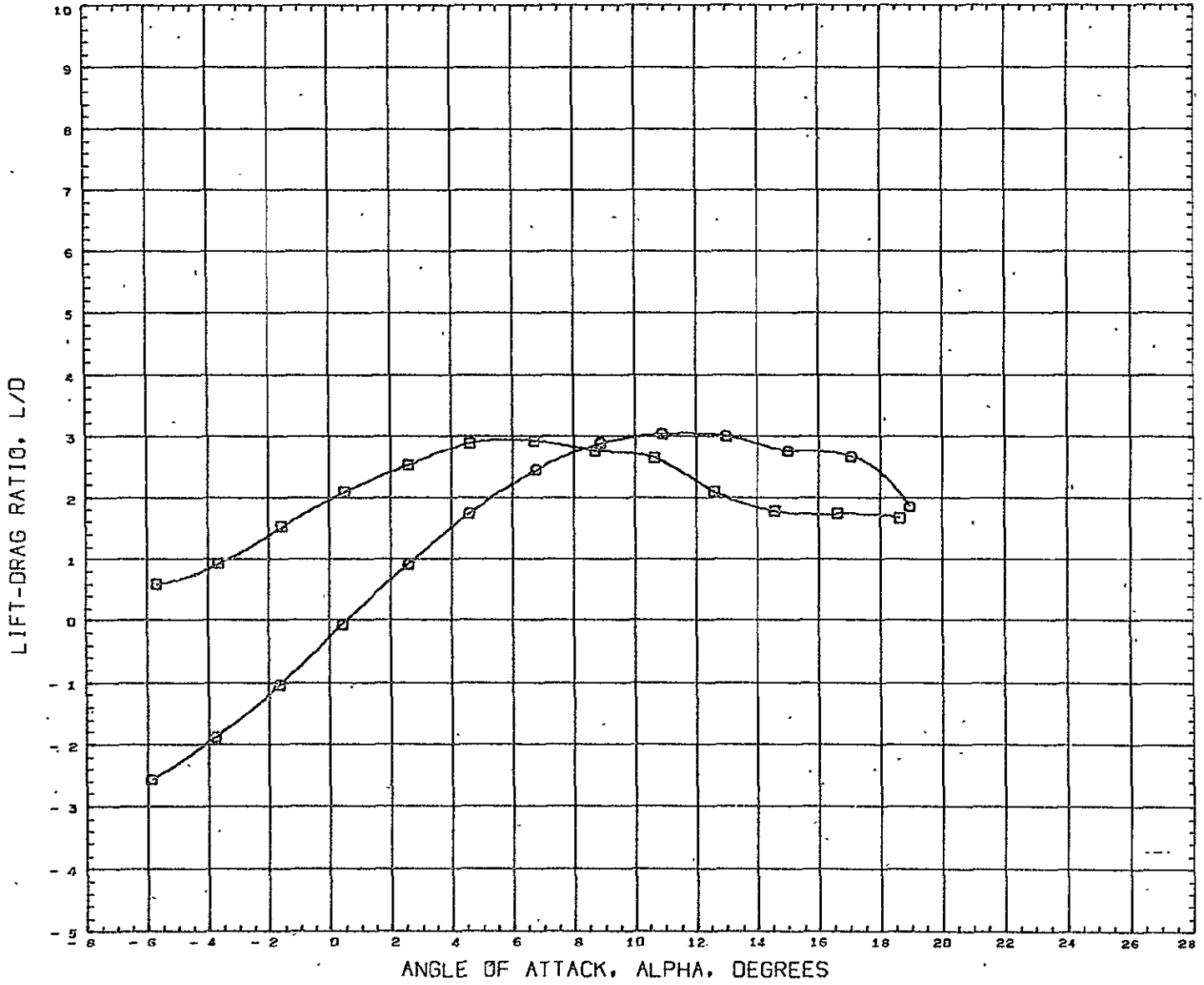
MACH	0.259	BETA	0.000
ELEVTR	- 30.000	RUDDER	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES



SYMBOL	FLAPS
O	0.000
□	45.000

PARAMETRIC VALUES

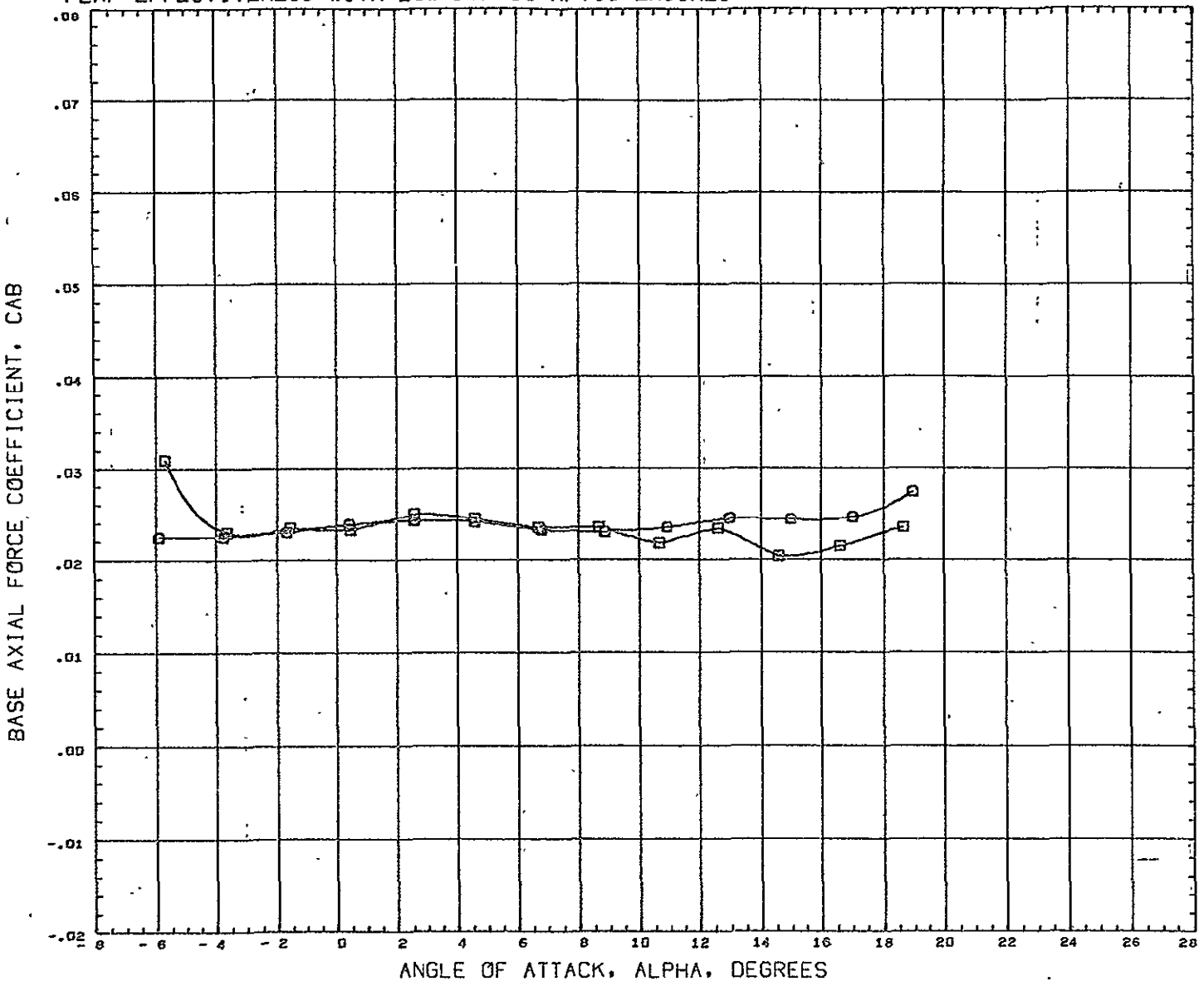
MACH	0.259	BETA	0.000
ELEVTR	- 30.000	RUDDER	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES



SYMBOL	FLAPS
O	0.000
□	45.000

PARAMETRIC VALUES

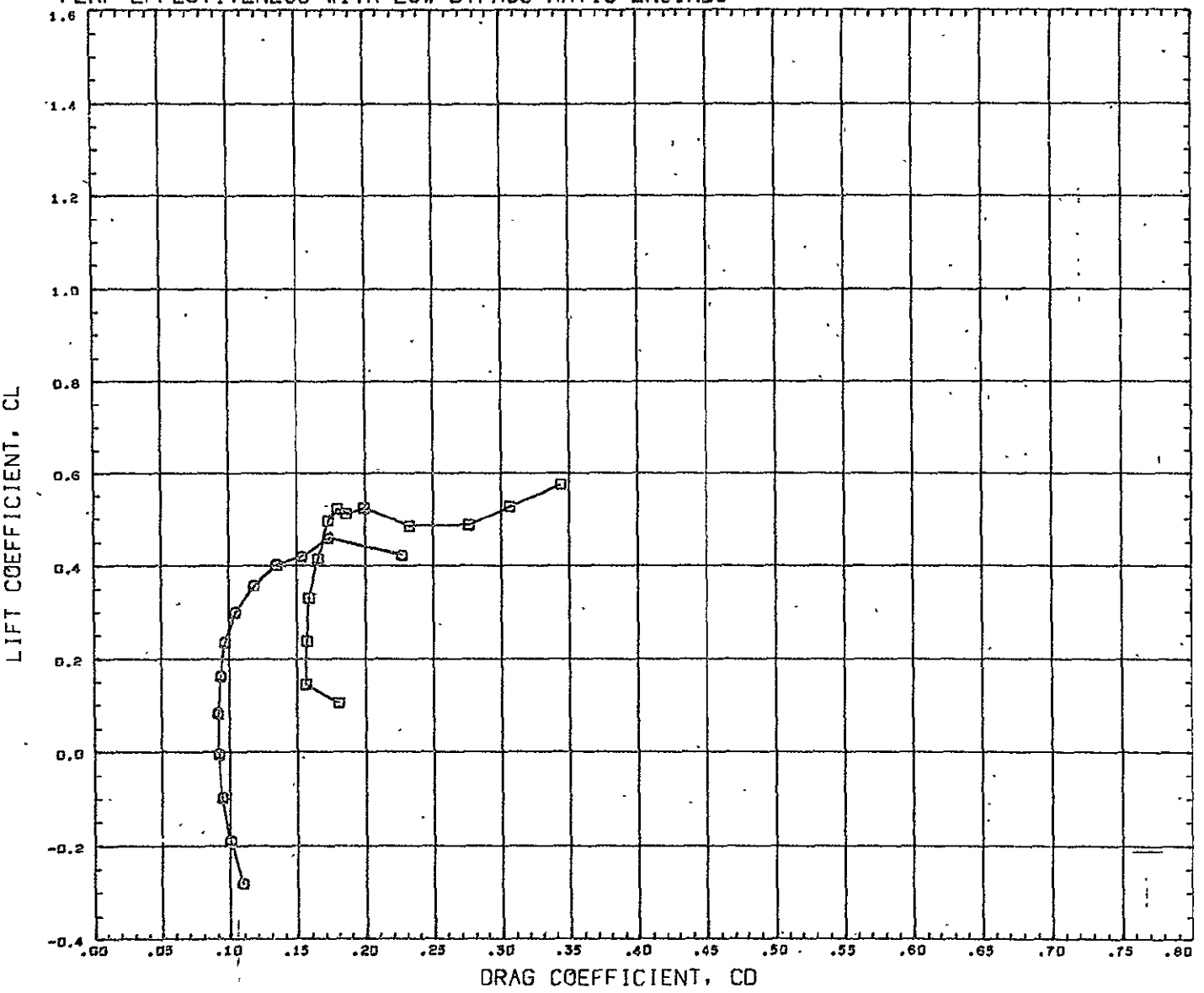
MACH	0.259	BETA	0.000
ELEVTR	- 30.000	RUDDER	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES



SYMBOL	FLAPS
○	0.000
□	45.000

PARAMETRIC VALUES

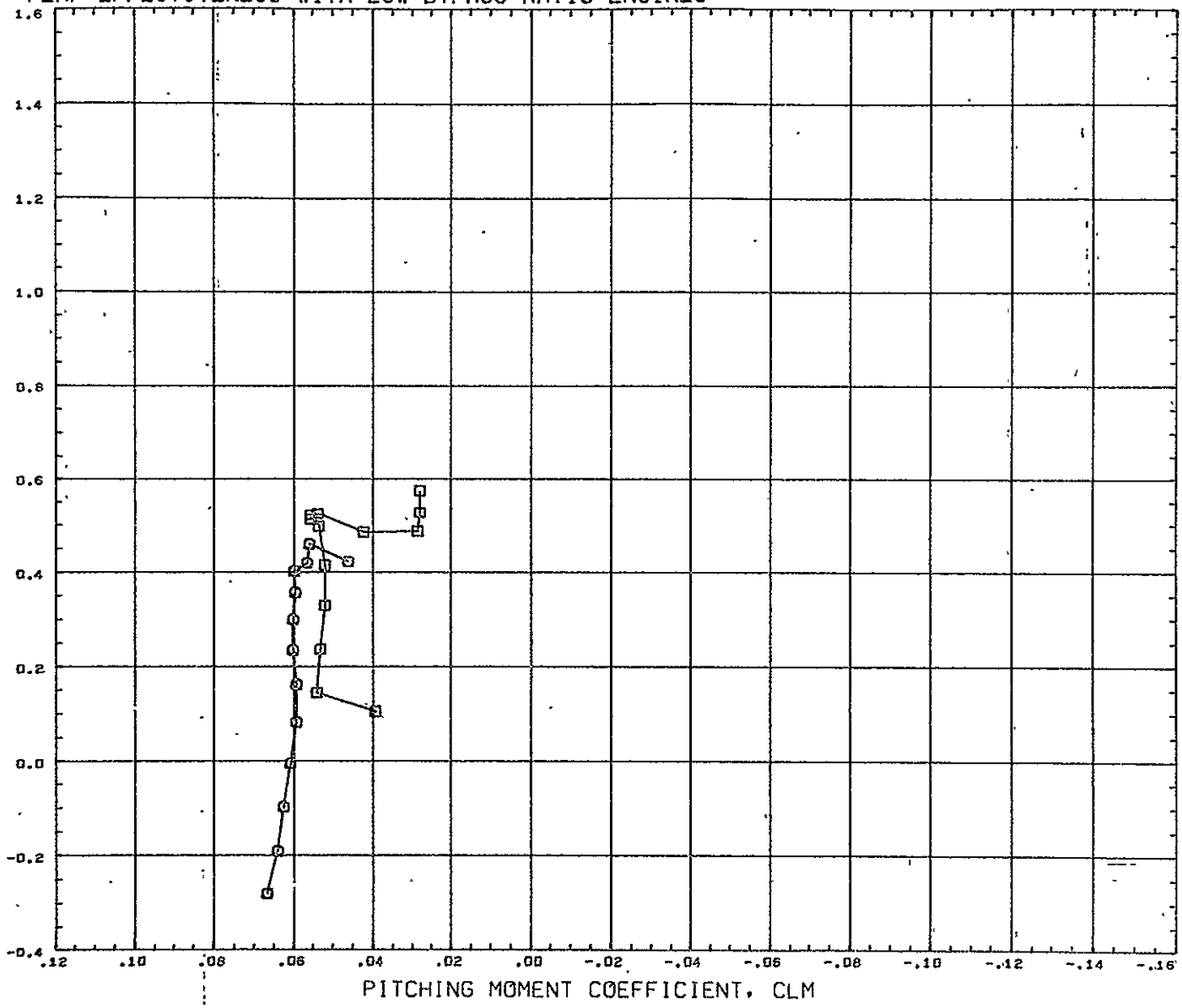
MACH	0.259	BETA	0.000
ELEVTR	- 30.000	RUDDER	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES



SYMBOL	FLAPS
□	0.000
□	45.000

PARAMETRIC VALUES

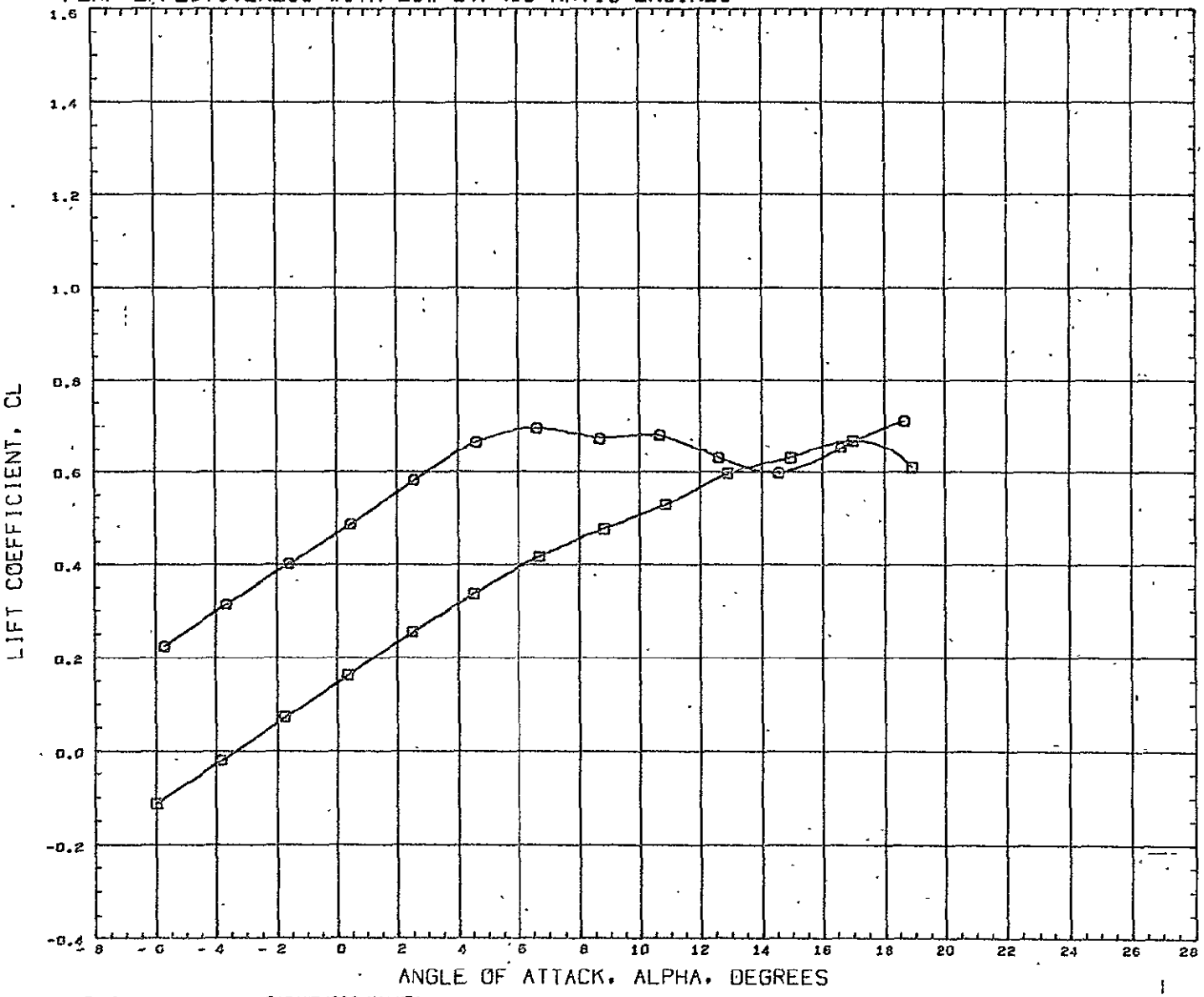
MACH	0.259	BETA	0.000
ELEVTR	- 30.000	RUDDER	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

REFERENCE FILE CONVAIR TN70-AE-12

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES

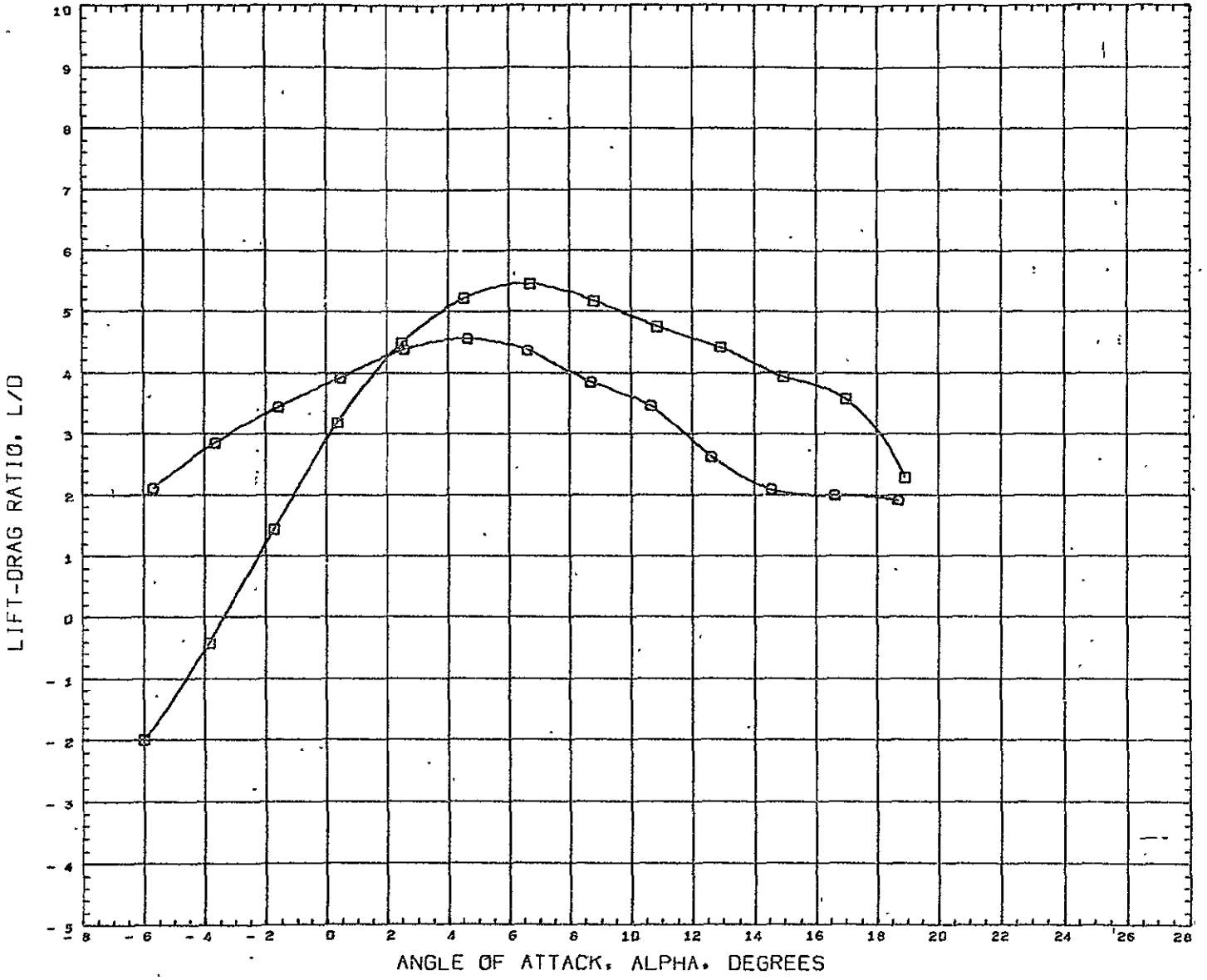


SYMBOL	FLAPS	PARAMETRIC VALUES			
O	45.000	MACH	0.194	BETA	0.000
□	0.000	ELEVTR	0.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES

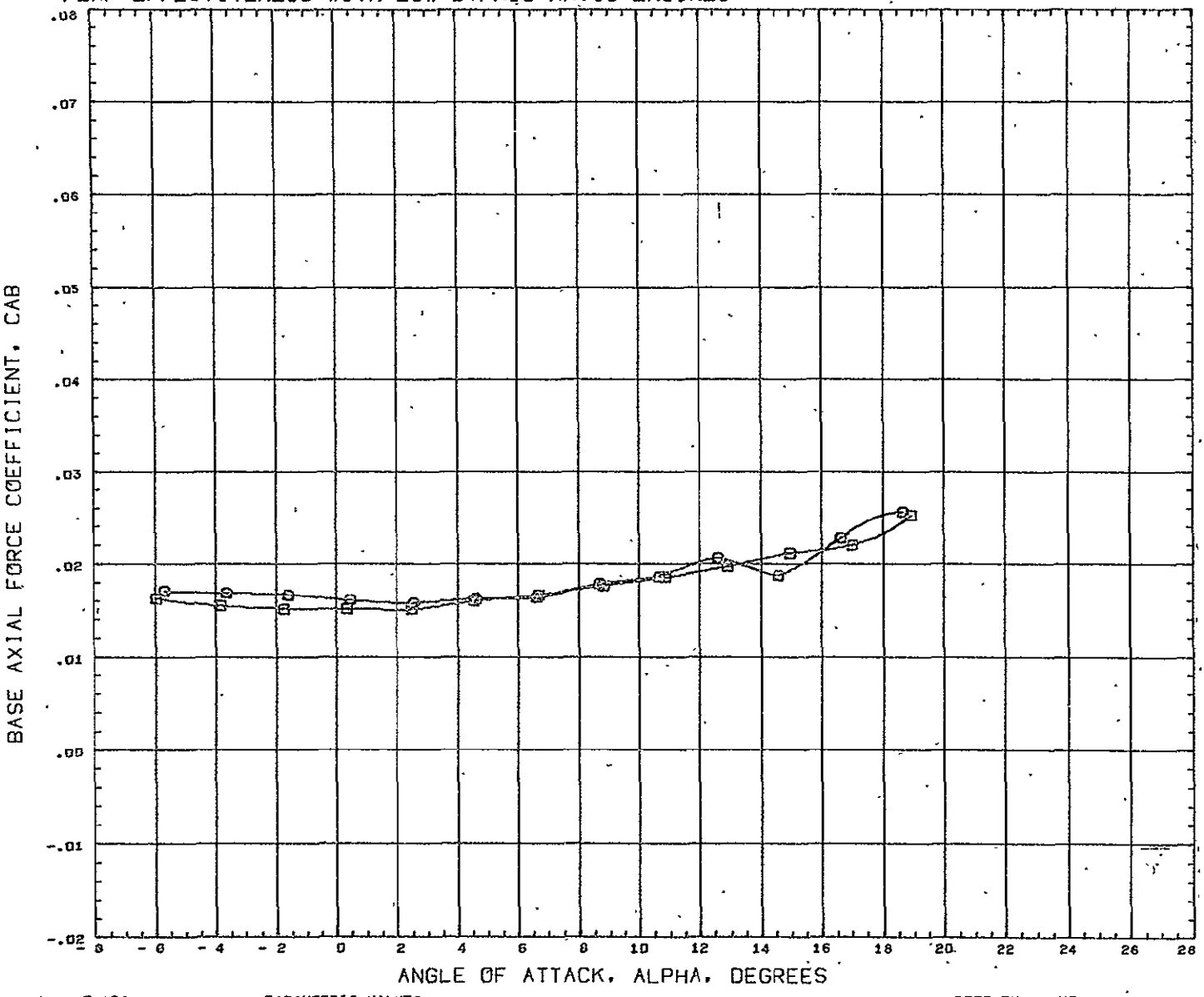


SYMBOL	FLAPS	PARAMETRIC VALUES			
○	45.000	MACH	0.184	BETA	0.000
□	0.000	ELEVTR	0.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES

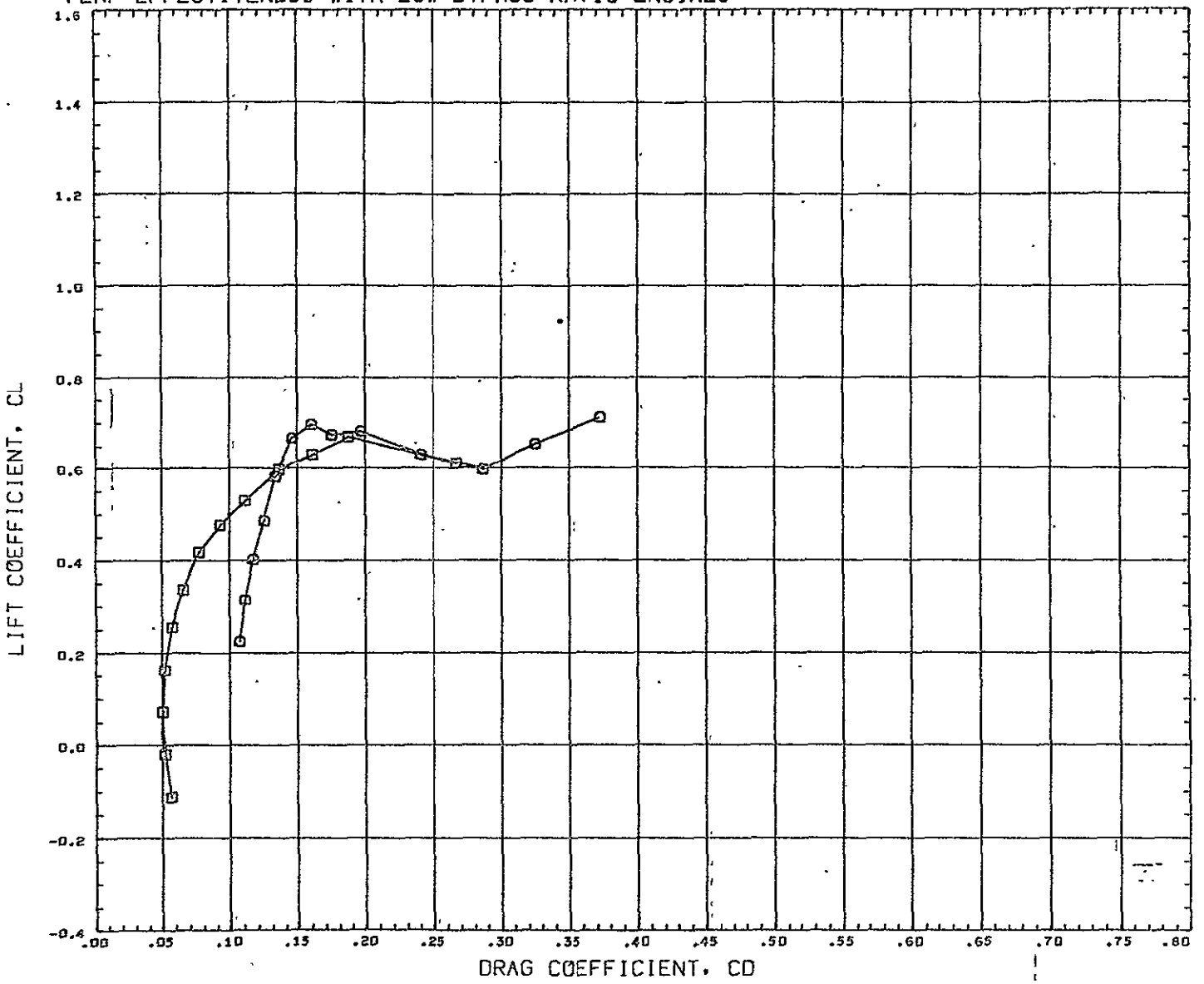


SYMBOL	FLAPS		PARAMETRIC VALUES		
O	45.000	MACH	0.184	BETA	0.000
□	0.000	ELEVTR	0.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES

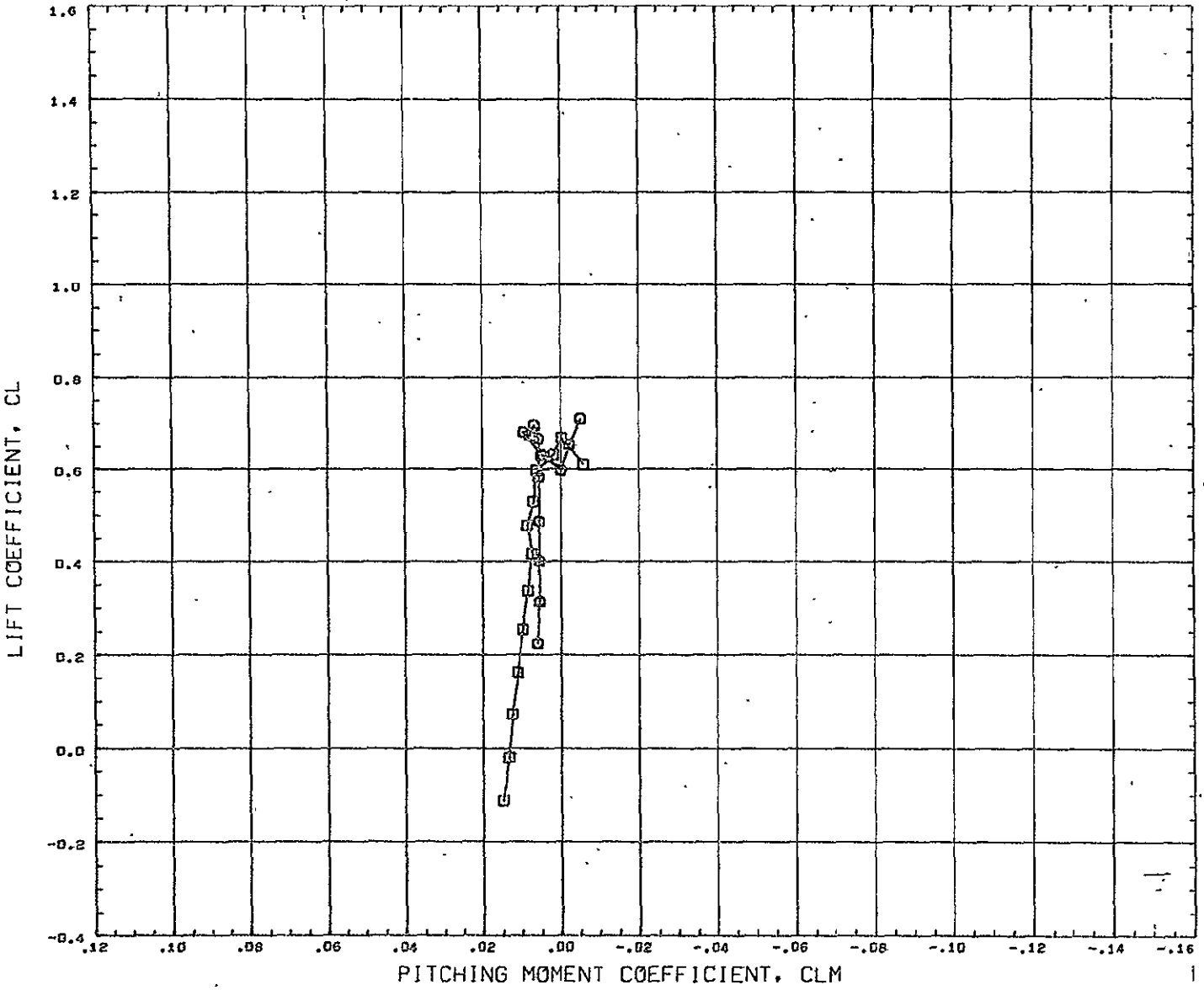


SYMBOL	FLAPS		PARAMETRIC VALUES		
O	45.000	MACH	0.184	BETA	0.000
□	0.000	ELEVTR	0.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES



SYMBOL	FLAPS
□	45.000
□	0.000

PARAMETRIC VALUES

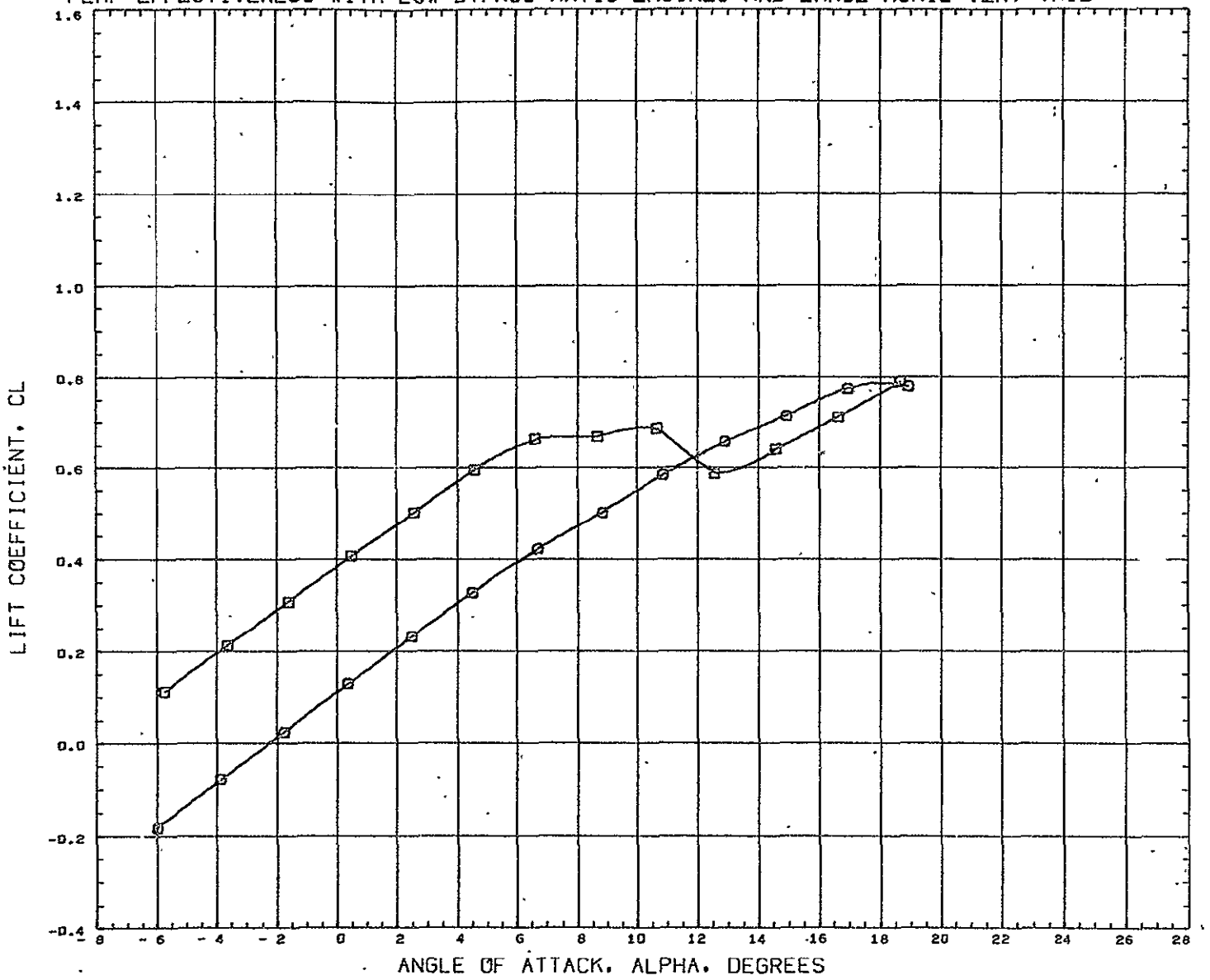
MACH	0.184	BETA	0.000
ELEVTR	0.000	RUDDER	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZ-VERT TAIL



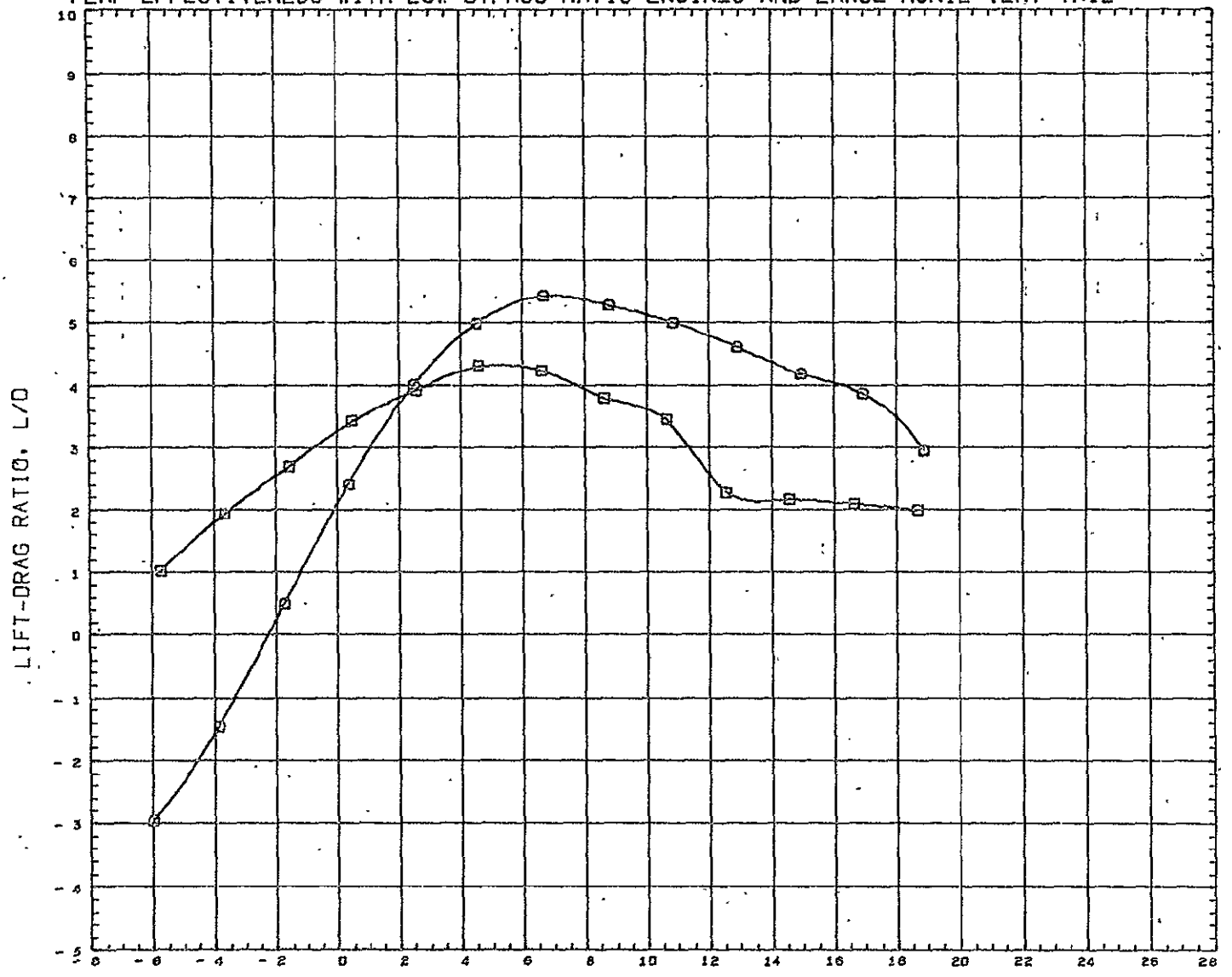
SYMBOL	FLAPS		PARAMETRIC VALUES		
□	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	0.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZ-VERT TAIL

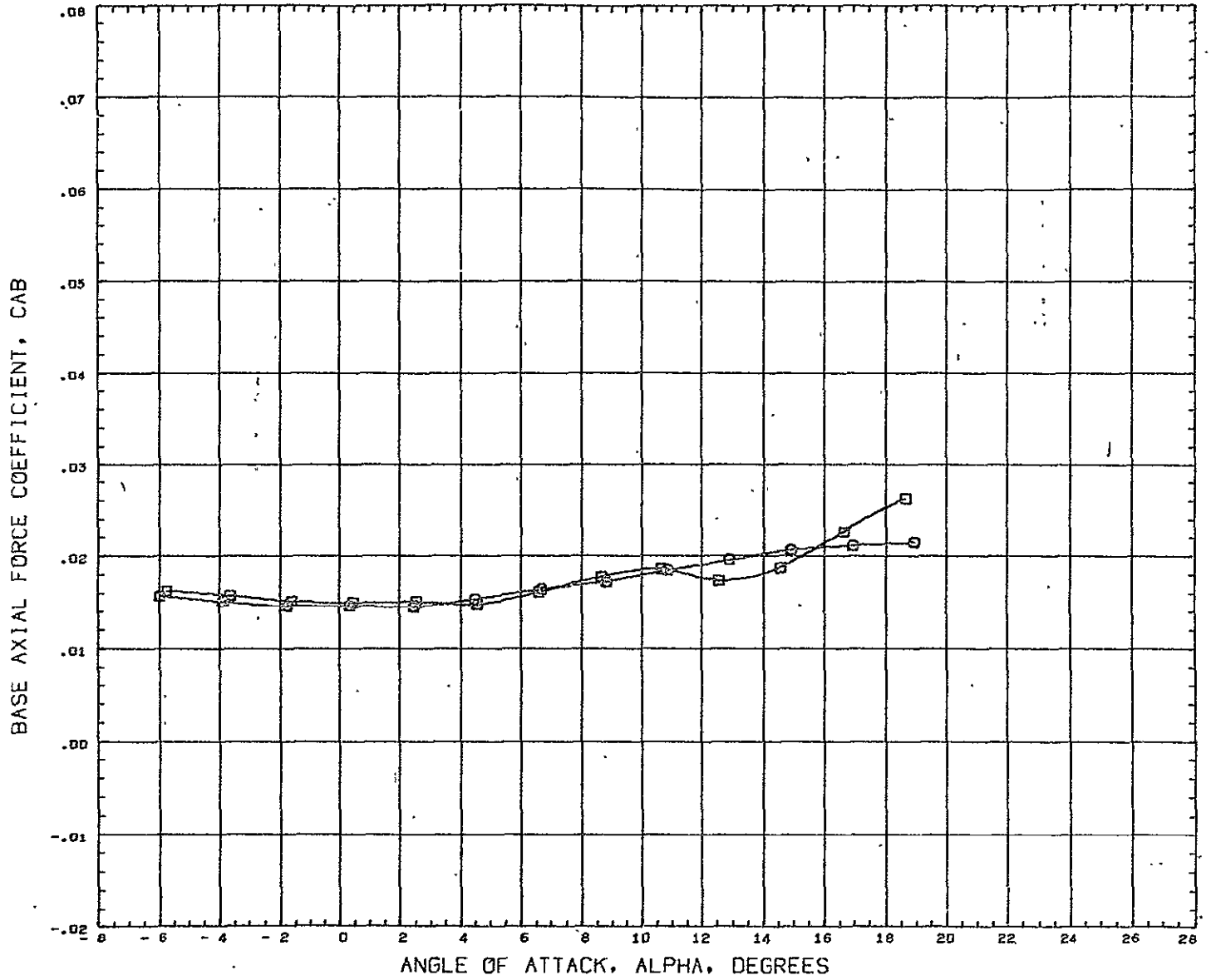


SYMBOL	FLAPS	PARAMETRIC VALUES			
O	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	0.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LØW-BYPASS RATIO ENGINES AND LARGE HØRIZ-VERT TAIL



SYMBOL	FLAPS
O	0.000
□	45.000

PARAMETRIC VALUES

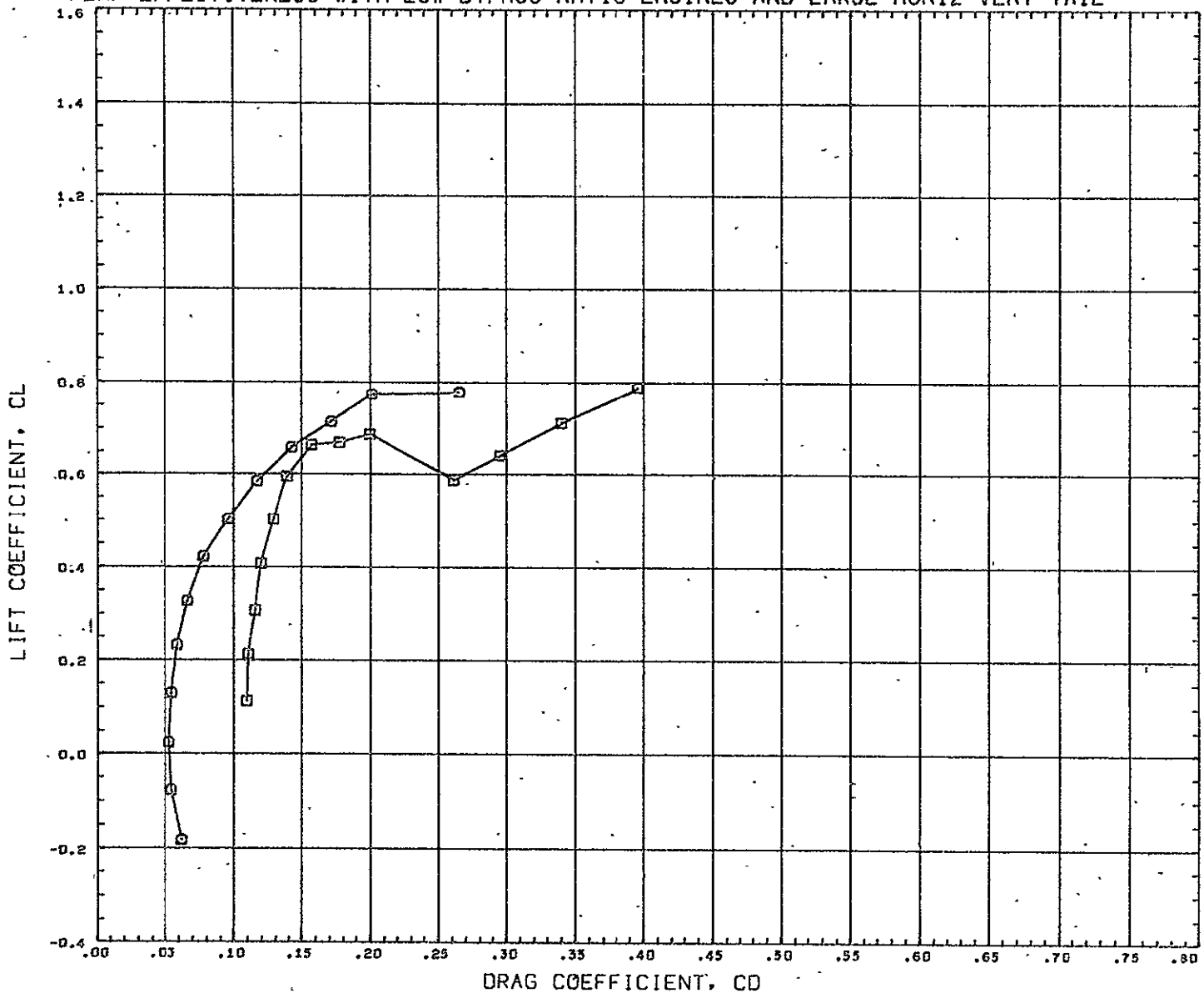
MACH	0.259	BETA	0.000
ELEVTR	0.000	RUDDER	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZ-VERT TAIL



SYMBOL	FLAPS
○	0.000
□	45.000

PARAMETRIC VALUES

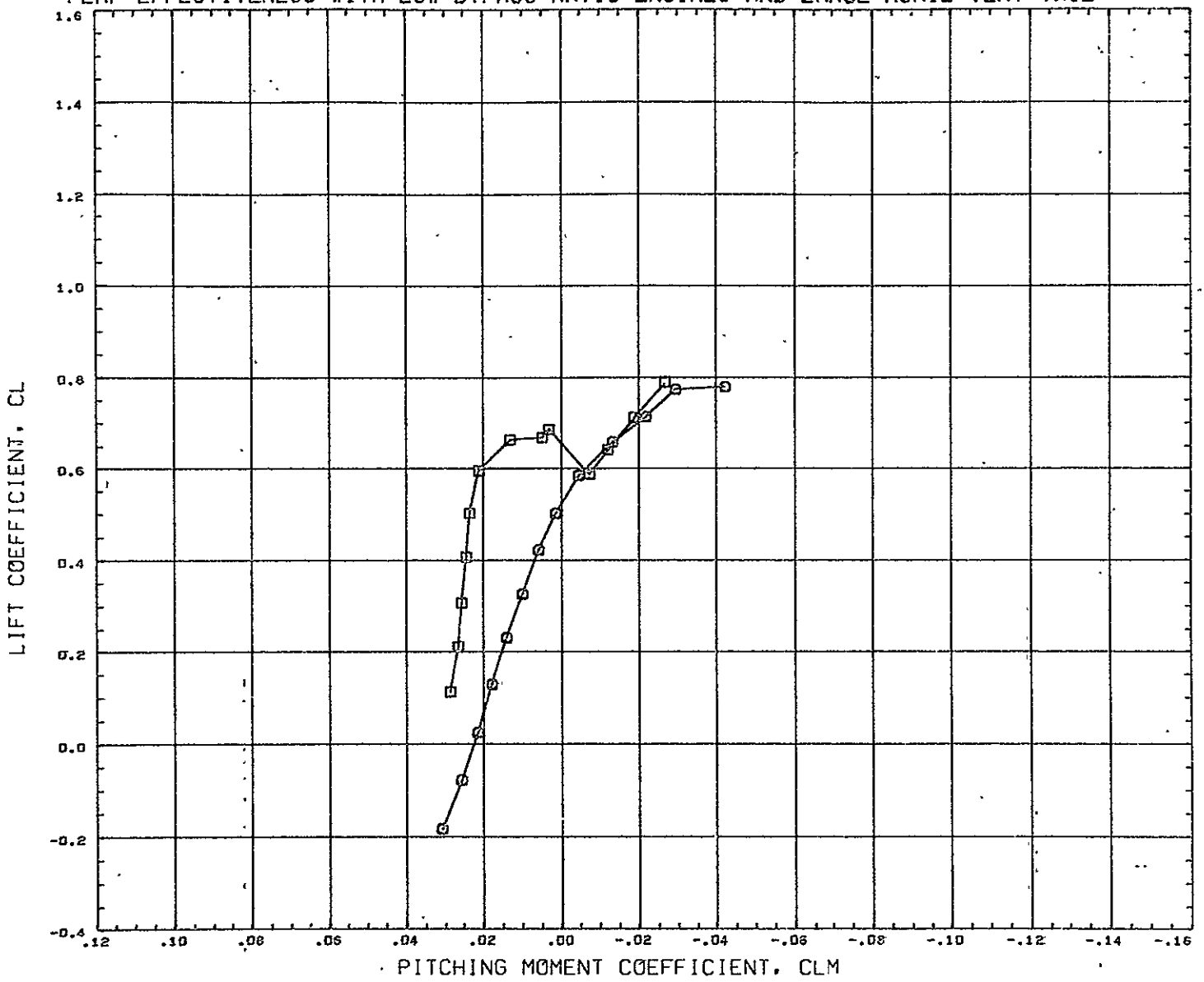
MACH	0.259	BETA	0.000
ELEVTR	0.000	RUDDER	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.7920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

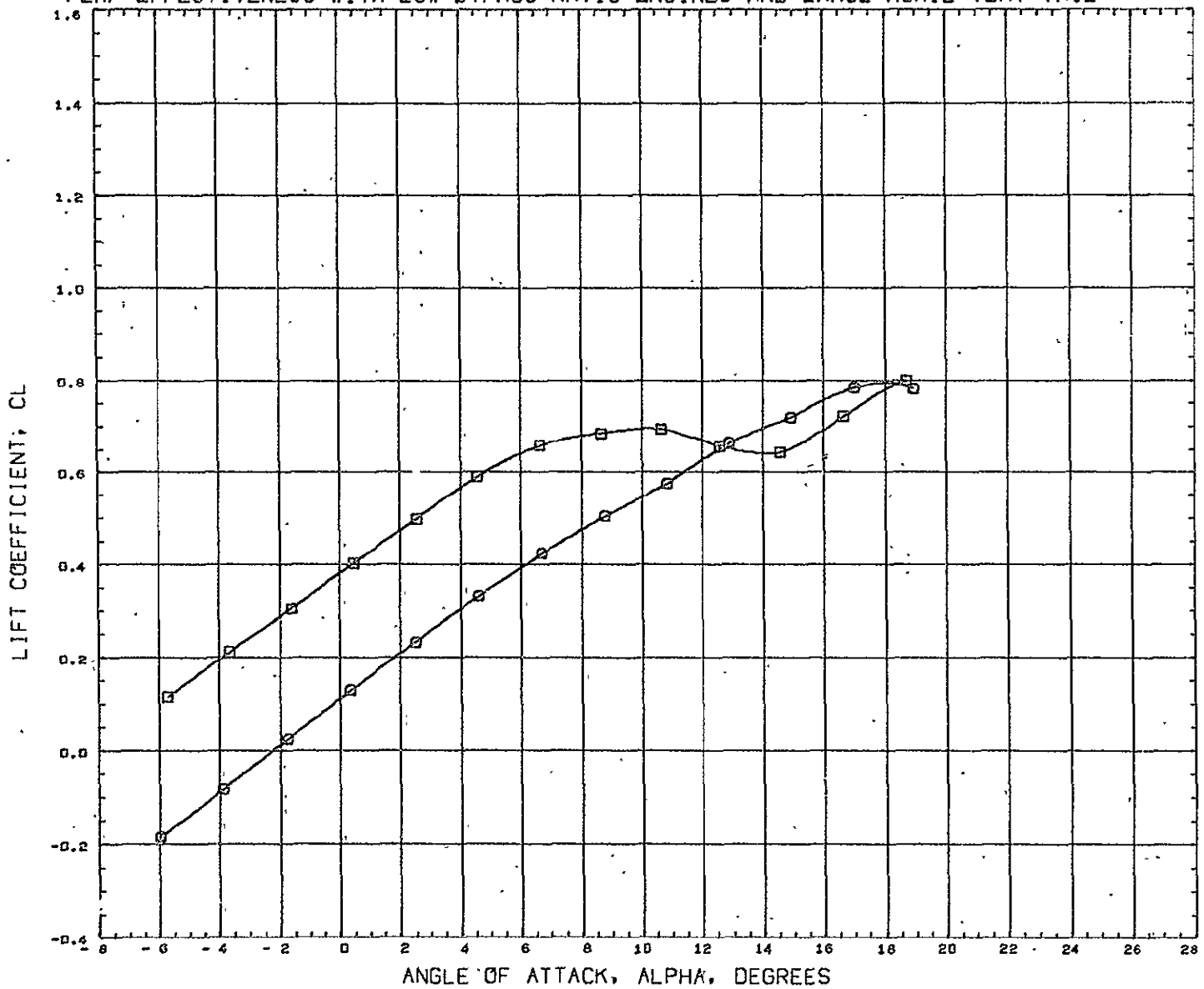
FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZ-VERT TAIL



SYMBOL	FLAPS	PARAMETRIC VALUES				REFERENCE INFORMATION		
O	0.000	MACH	0.259	BETA	0.000	REFS	316.2304	SQ IN
□	45.000	ELEVTR	0.000	RUDDER	0.000	REFL	50.1900	IN
		SPOILR	0.000	ENGINE	18.000	REFB	7.3500	IN
						XMRP	29.3920	IN
						YMRP	0.0000	IN
						ZMRP	0.0000	IN
						SCALE	0.0175	

REFERENCE FILE CONVAIR TN70-AE-12

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZ-VERT TAIL

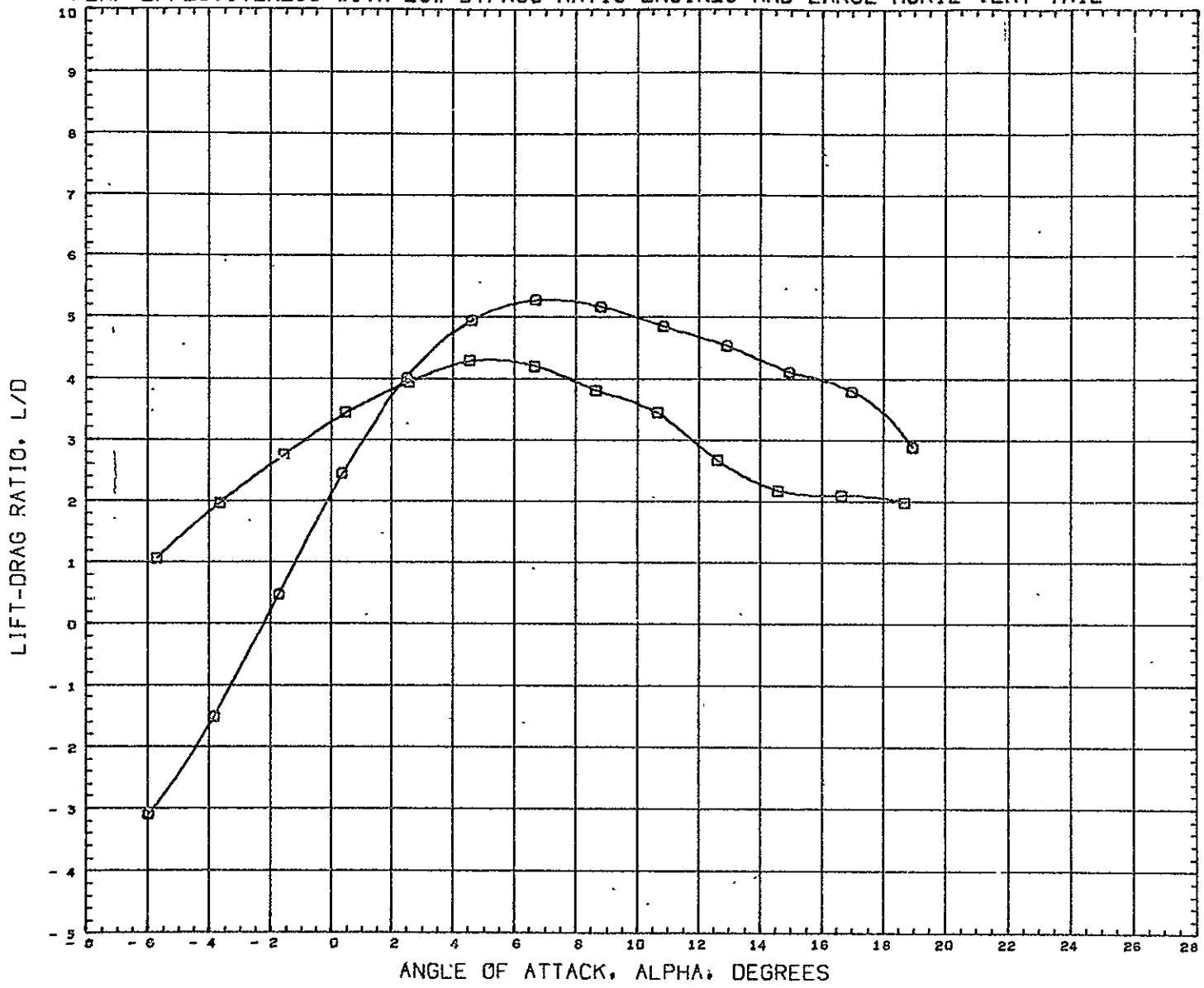


SYMBOL	FLAPS		PARAMETRIC VALUES		
○	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	0.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZ-VERT TAIL

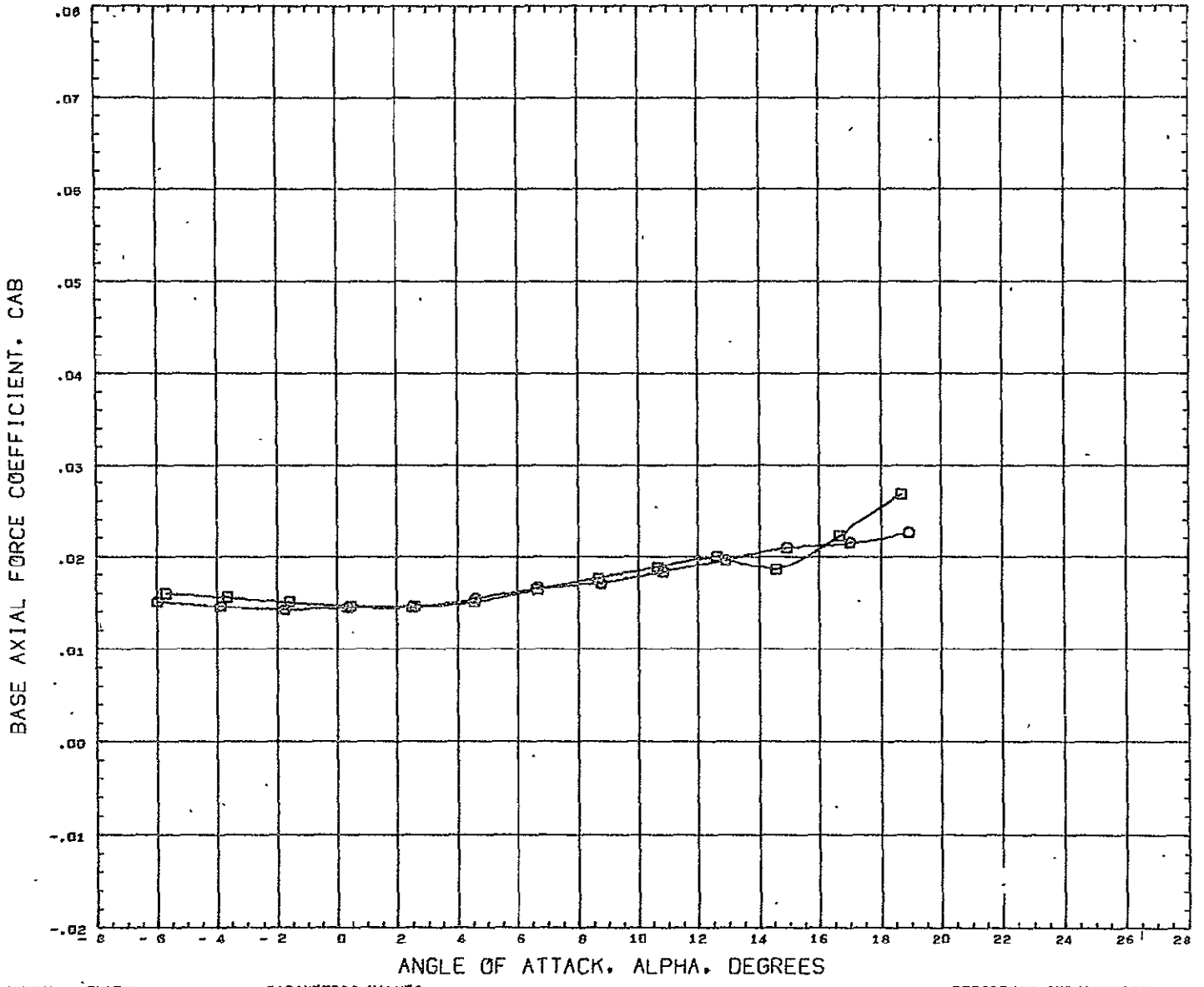


SYMBOL	FLAPS		PARAMETRIC VALUES		
○	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	0.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZ-VERT TAIL

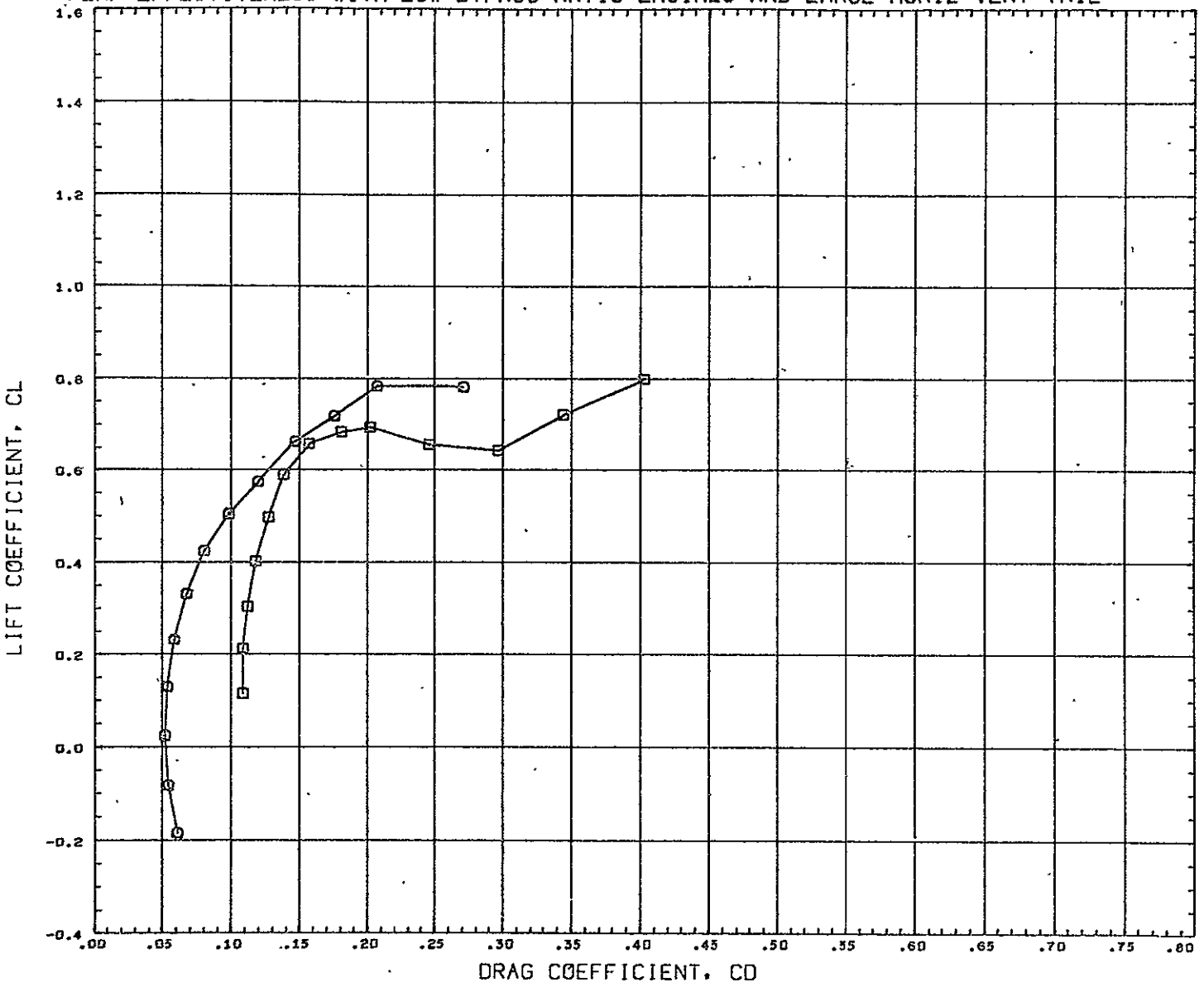


SYMBOL	FLAPS		PARAMETRIC VALUES		
O	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	0.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZ-VERT TAIL

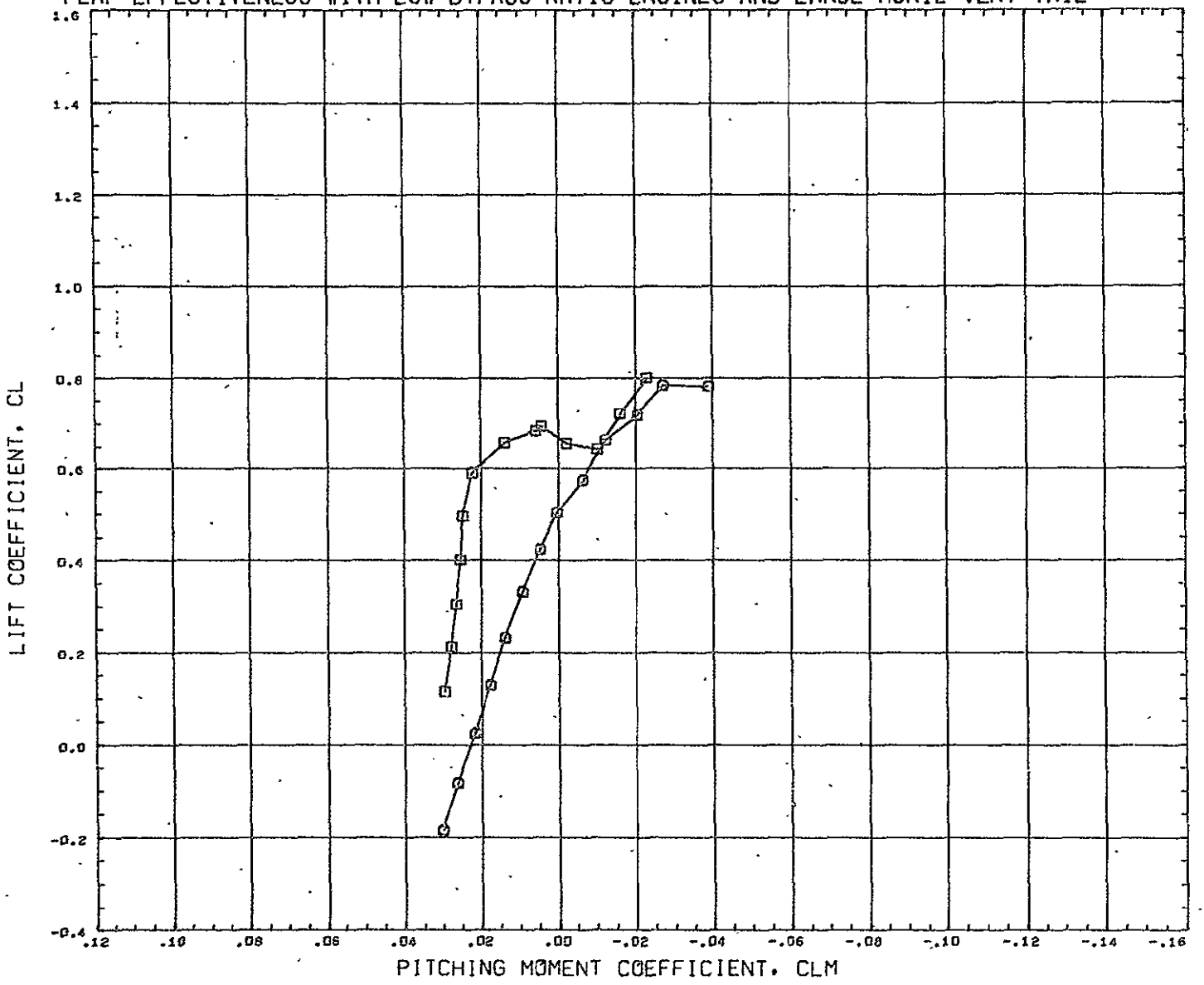


SYMBOL	FLAPS		PARAMETRIC VALUES		
○	0.000	MACH	0.259	BETA	0.000
□	45.000	ELEVTR	0.000	RUDDER	0.000
		SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

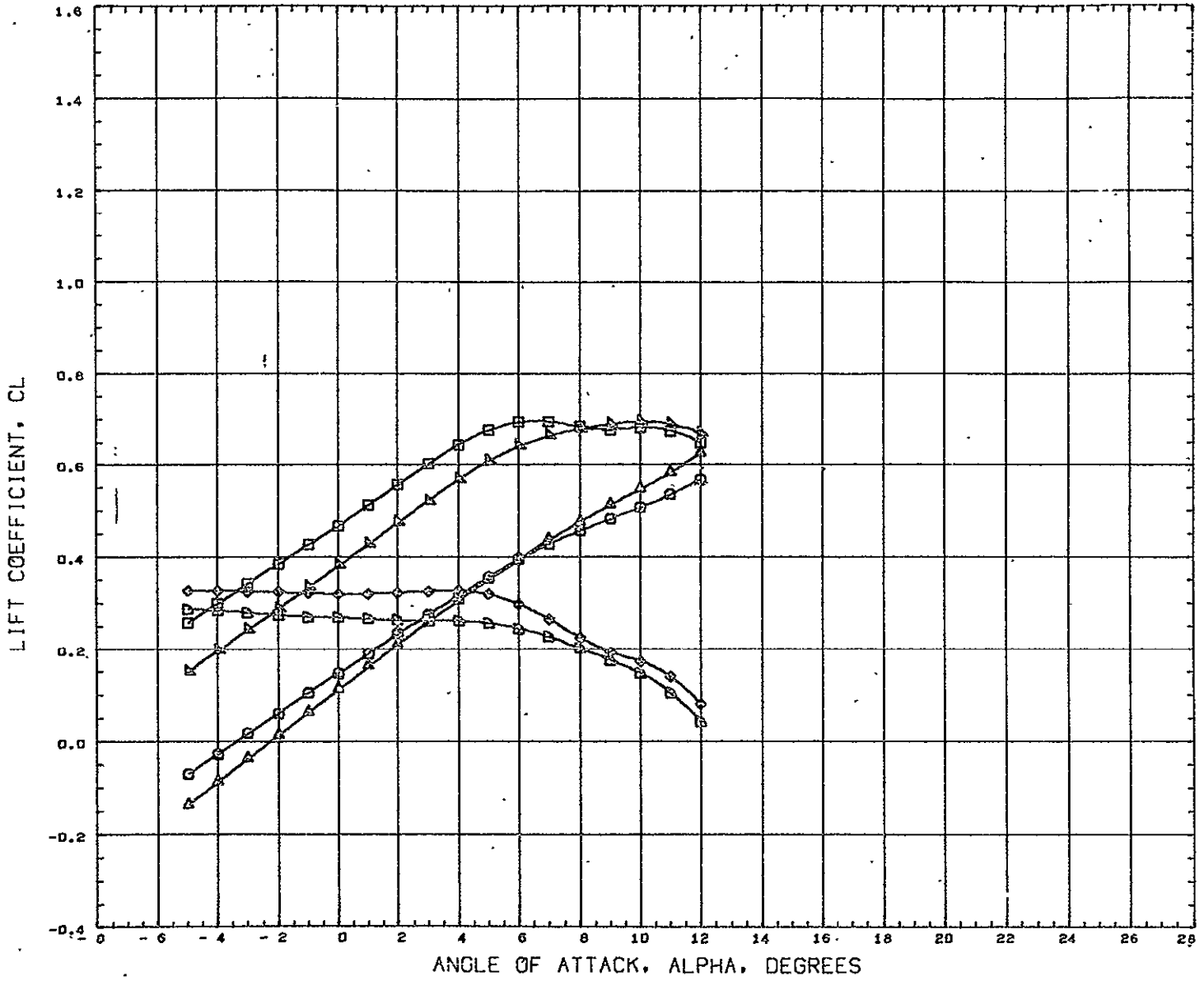
FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENGINES AND LARGE HORIZ-VERT TAIL



SYMBOL	FLAPS	PARAMETRIC VALUES				REFERENCE INFORMATION		
O	0.000	MACH	0.259	BETA	0.000	REFS	316.2304	SQ IN
□	45.000	ELEVTR	0.000	RUDDER	0.000	REFL	50.1900	IN
		SPOILR	0.000	ENGINE	21.000	REFB	7.3500	IN
						XMRP	29.3920	IN
						YMRP	0.0000	IN
						ZMRP	0.0000	IN
						SCALE	0.0175	

REFERENCE FILE CONVAIR TN70-AE-12

EFFECT OF LARGE HORIZ-VERT TAIL ON FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENG



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(NC8070)	○	CVLSWT TEST 580-0 B9W3AT4V4K2E21
(NC8075)	□	CVLSWT TEST 580-0 B9W3AT4V4F1-45K2E21
(DC8110)	◇	RC8075(F1-45) MINUS RC8070 B9W3AT4V4K2E21
(NC8077)	△	CVLSWT TEST 580-0 B9W3AT5V5K2E21
(NC8076)	▷	CVLSWT TEST 580-0 B9W3AT5V5F1-45K2E21
(DC8111)	D	RC8076(F1-45) MINUS RC8077 B9W3AT5V5K2E21

MACH 0.259

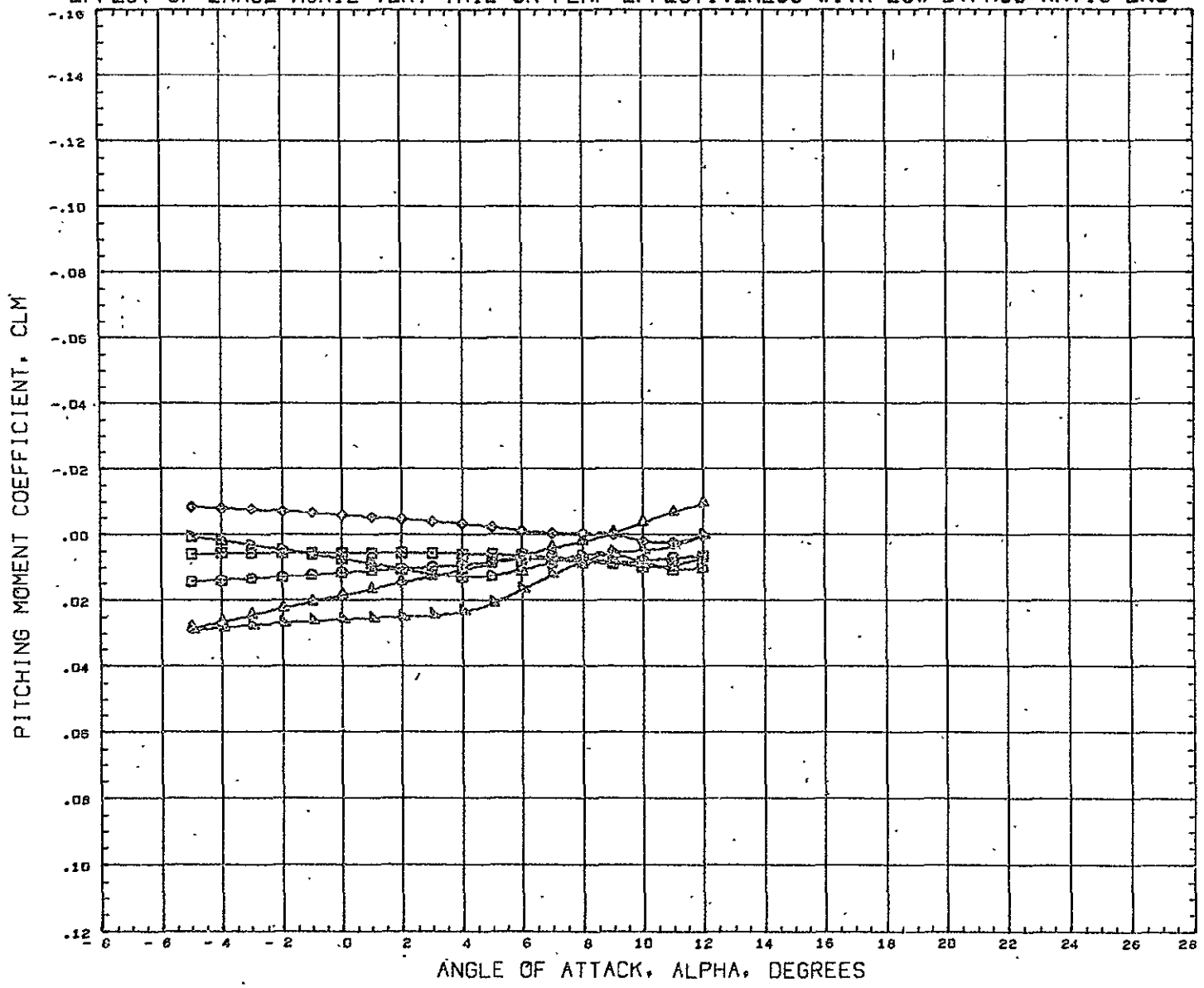
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0500	IN
SCALE	0.0175	

EFFECT OF LARGE HORIZ-VERT TAIL ON FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENG



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(NC8070)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E21
(NC8075)	□	CVLSWT TEST 580-0 B9W3AT4V4F1-45K2E21
(DC8110)	◇	RC8075(F1-45) MINUS RC8070 B9W3AT4V4K2E21
(NC8077)	△	CVLSWT TEST 580-0 B9W3AT5V5K2E21
(NC8076)	▷	CVLSWT TEST 580-0 B9W3AT5V5F1-45K2E21
(DC8111)	▷	RC8076(F1-45) MINUS RC8077 B9W3AT5V5K2E21

MACH 0.259

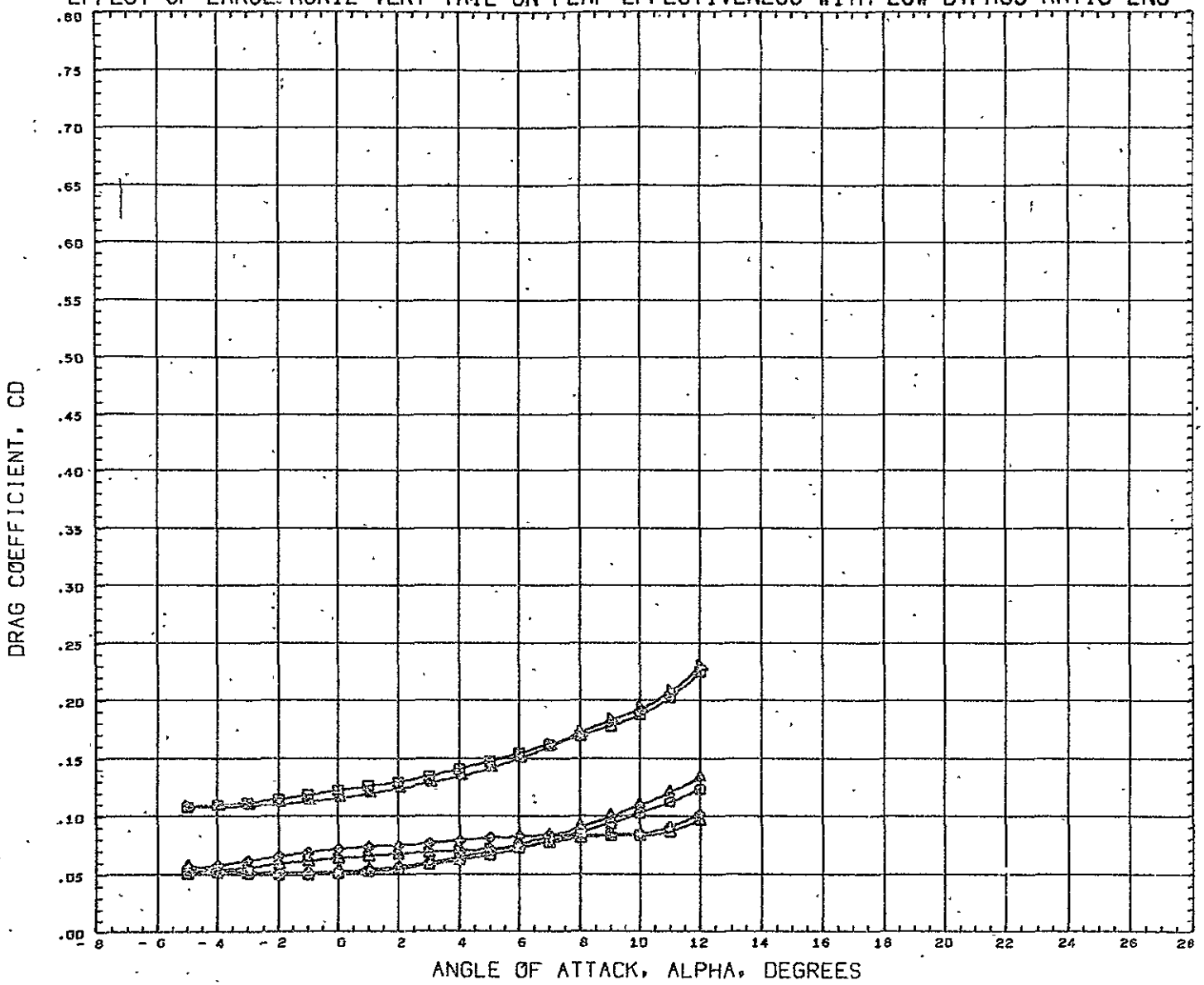
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LARGE HORIZ-VERT TAIL ON FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENG



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(NC8070)	○	CVLSWT TEST 580-0 B9W3AT4V4K2E21
(NC8075)	□	CVLSWT TEST 580-0 B9W3AT4V4F1-45K2E21
(DC8110)	◇	RC8075(F1-45) MINUS RC8070 B9W3AT4V4K2E21
(NC8077)	△	CVLSWT TEST 580-0 B9W3AT5V5K2E21
(NC8076)	◺	CVLSWT TEST 580-0 B9W3AT5V5F1-45K2E21
(DC8111)	◺	RC8076(F1-45) MINUS RC8077 B9W3AT5V5K2E21

MACH 0.259

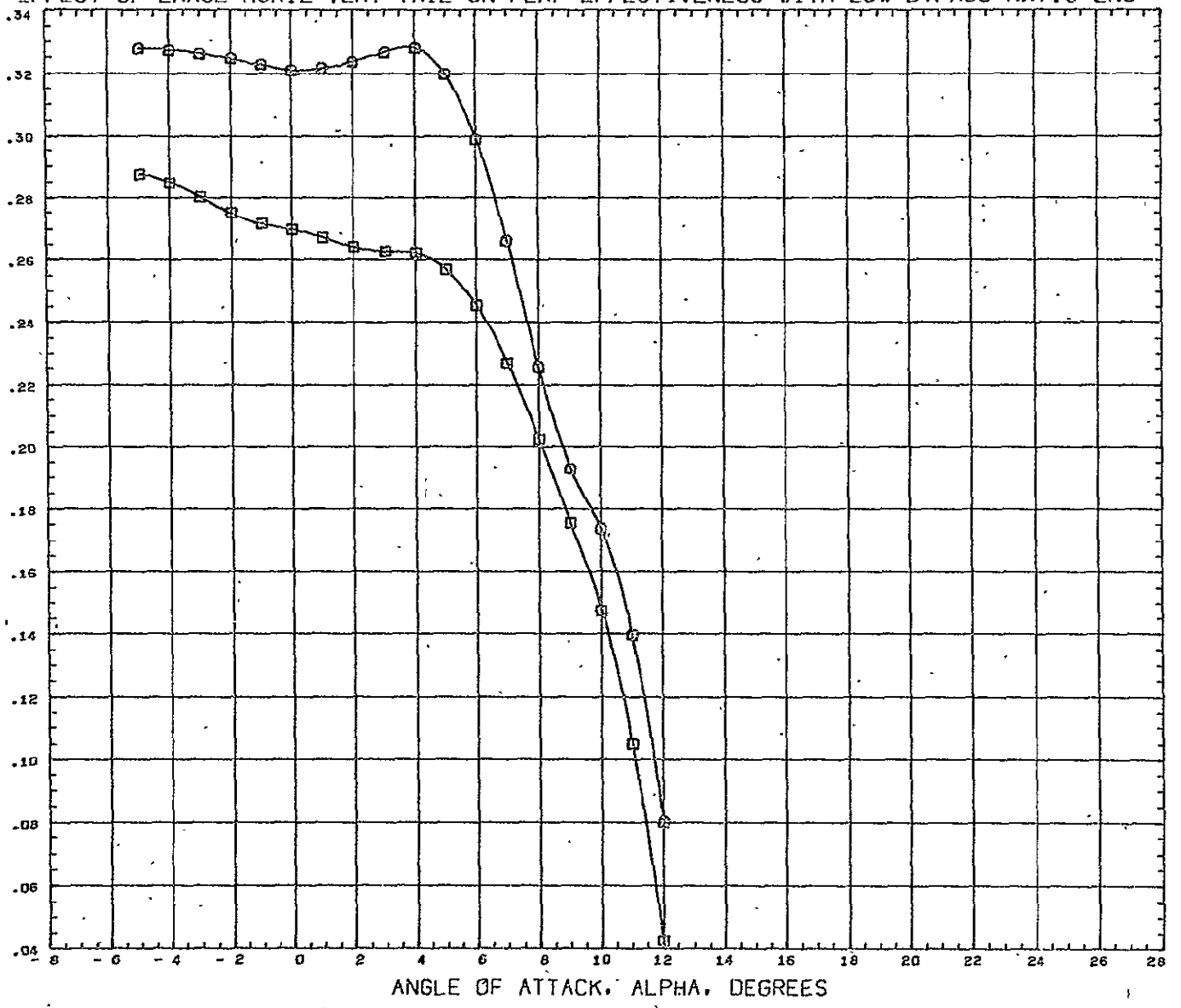
PARAMETRIC VALUES

BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LARGE HORIZ-VERT TAIL ON FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENG



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(EC8110)	□	RC8075(F1-45) MINUS RC8070 B9W3AT4V4K2E21
(EC8111)	□	RC8076(F1-45) MINUS RC8077 B9W3AT5V5K2E21

PARAMETRIC VALUES

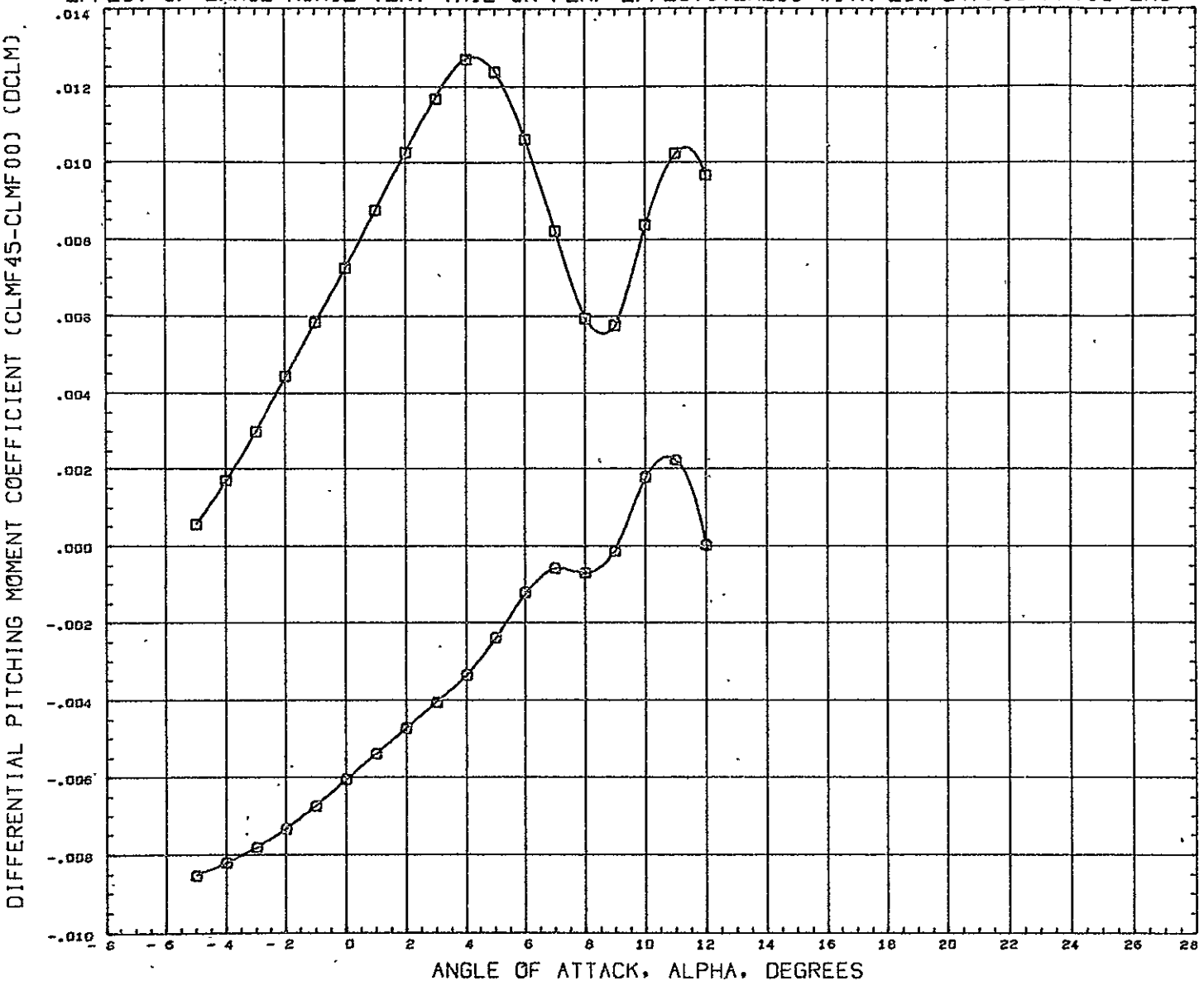
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	SPOILR	0.000
ENGINE	21.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF LARGE HORIZ-VERT TAIL ON FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENG



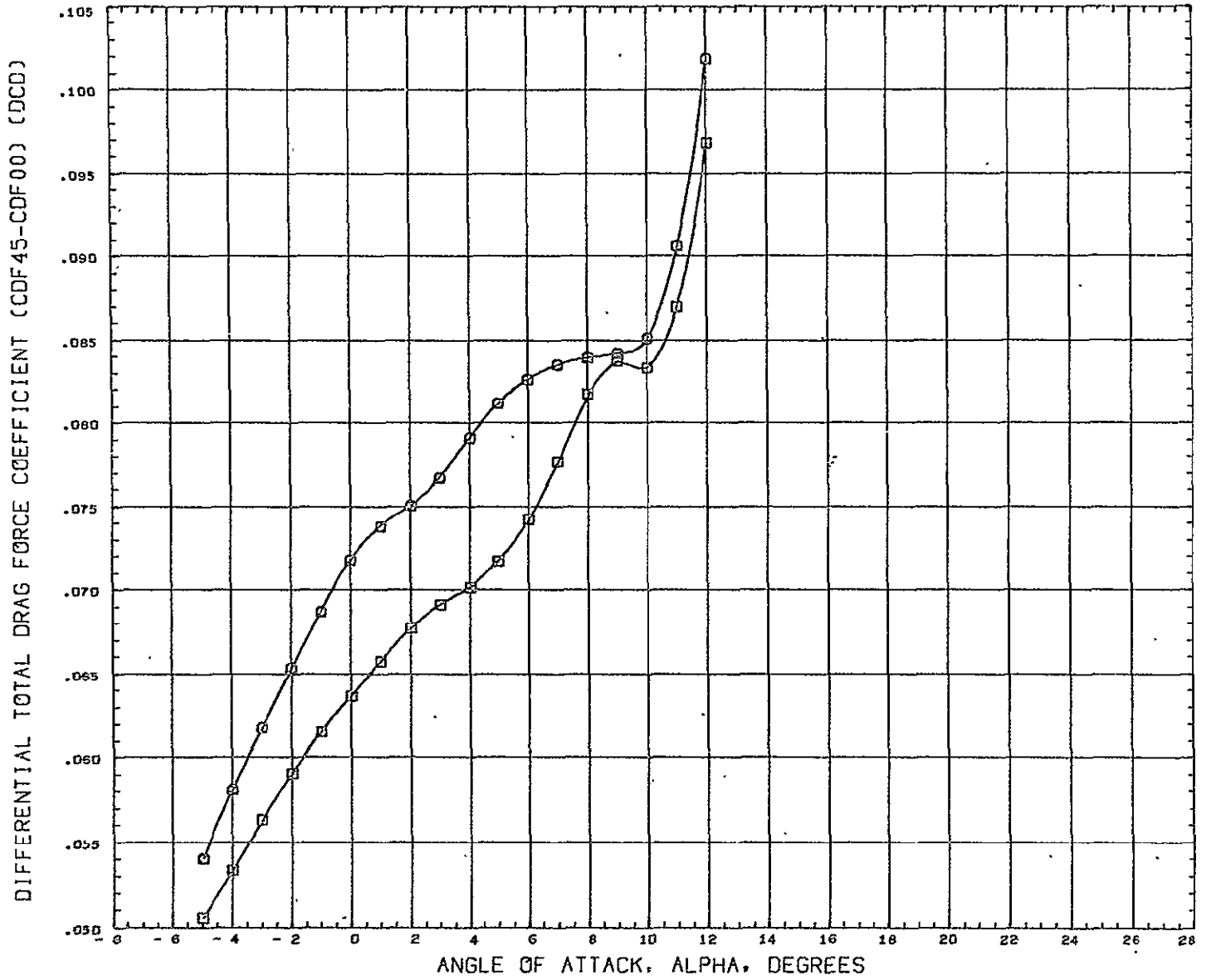
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(EC8110)	○	RC8075(F1-45) MINUS RC8070 B9W3AT4V4K2E21
(EC8111)	□	RC8076(F1-45) MINUS RC8077 B9W3AT5V5K2E21

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	SPOILR	0.000
ENGINE	21.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LARGE HORIZ-VERT TAIL ON FLAP EFFECTIVENESS WITH LOW-BYPASS RATIO ENG



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(EC0110)	□	RC8075(F1-45) MINUS RC8070 B9W3AT4V4K2E21
(EC0111)	□	RC8076(F1-45) MINUS RC8077 B9W3AT5V5K2E21

PARAMETRIC VALUES

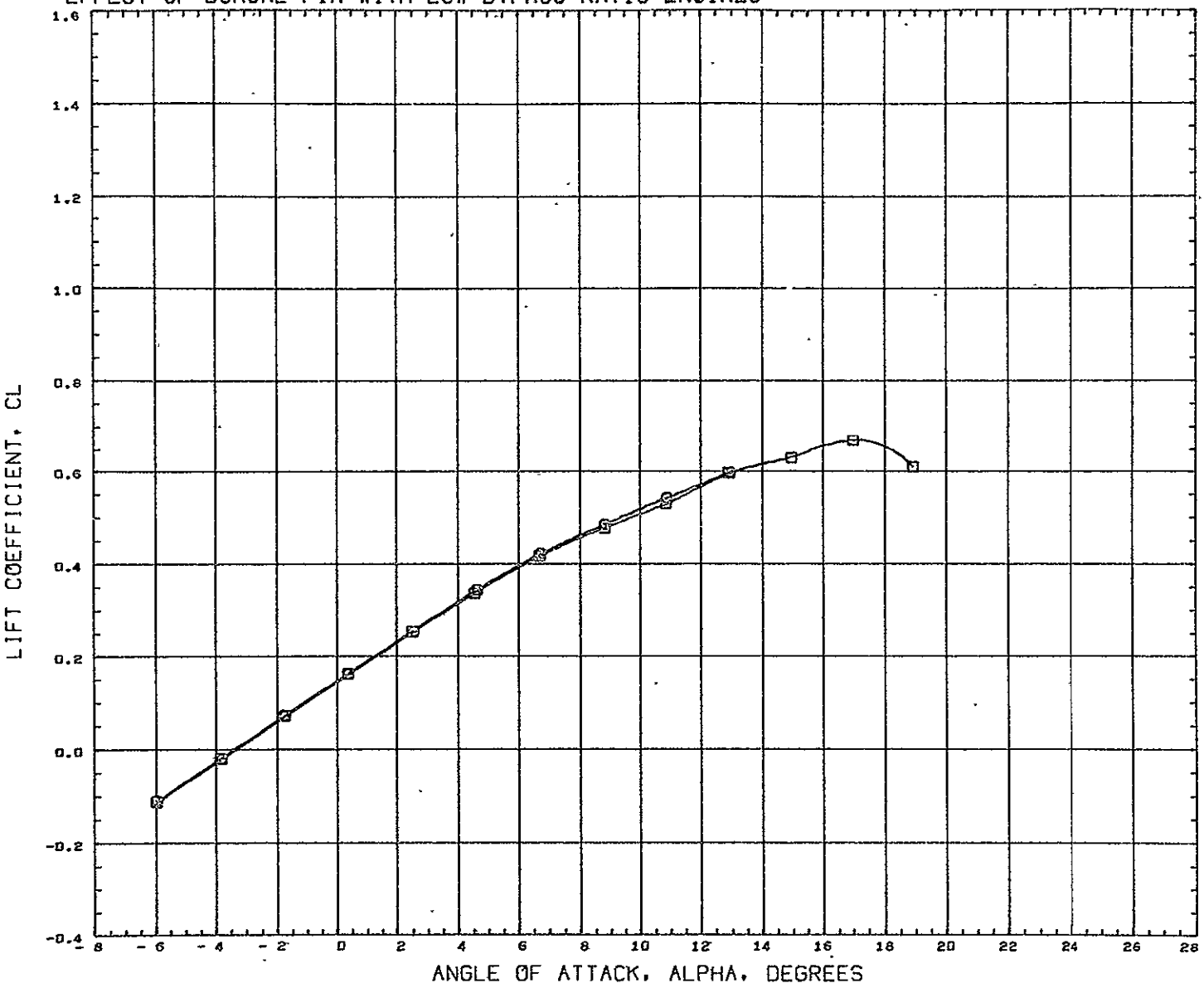
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	SPOILR	0.000
ENGINE	21.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF DORSAL FIN WITH LOW-BYPASS RATIO ENGINES



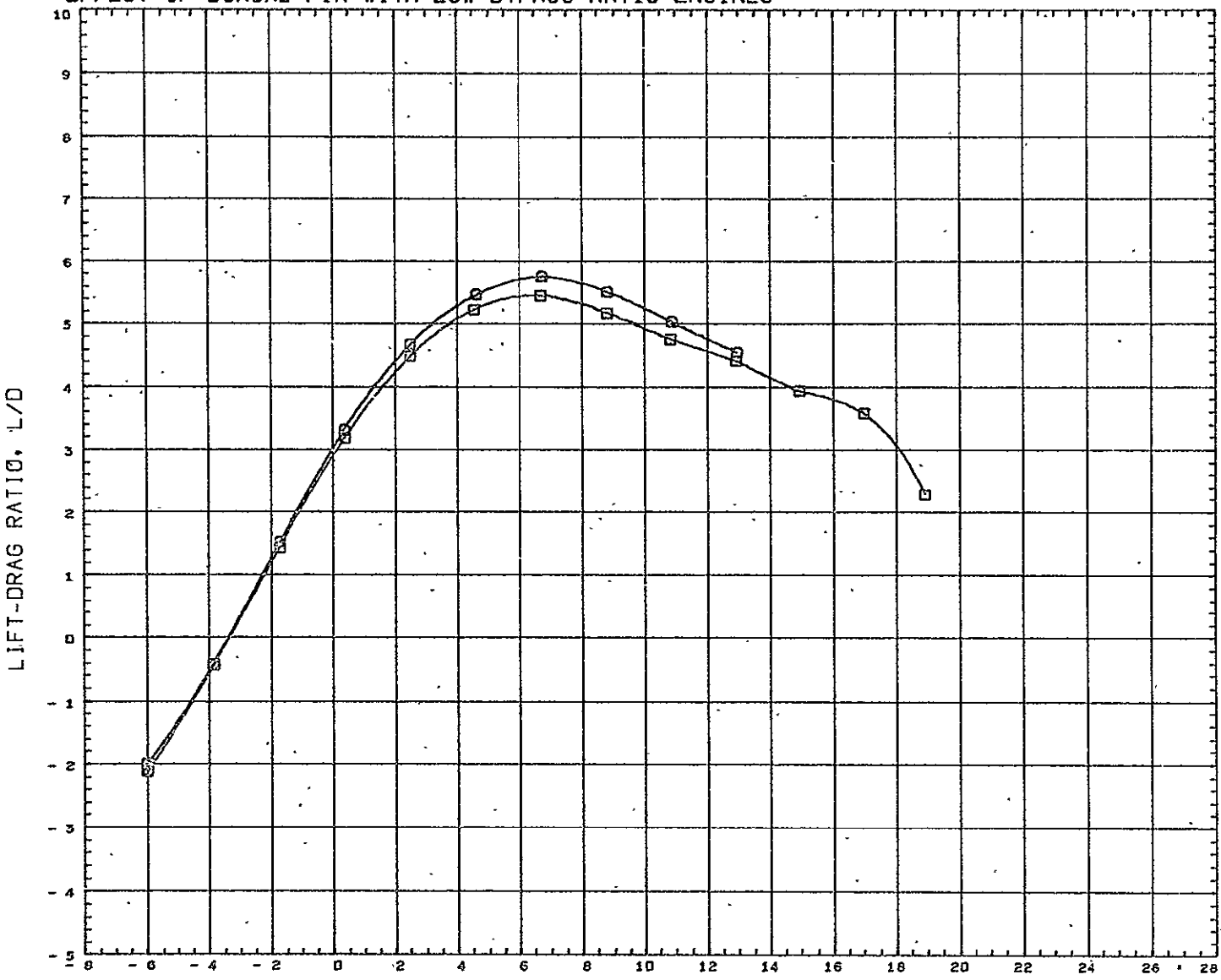
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8074)	O	CVLSWT TEST 580-0 B9W3AT4V4K2K3E21
(RC8070)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E21

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

EFFECT OF DORSAL FIN WITH LOW-BYPASS RATIO ENGINES



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8074)	O	CVLSWT TEST 580-0 B9W3AT4V4K2K3E21
(RC8075)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E21

PARAMETRIC VALUES

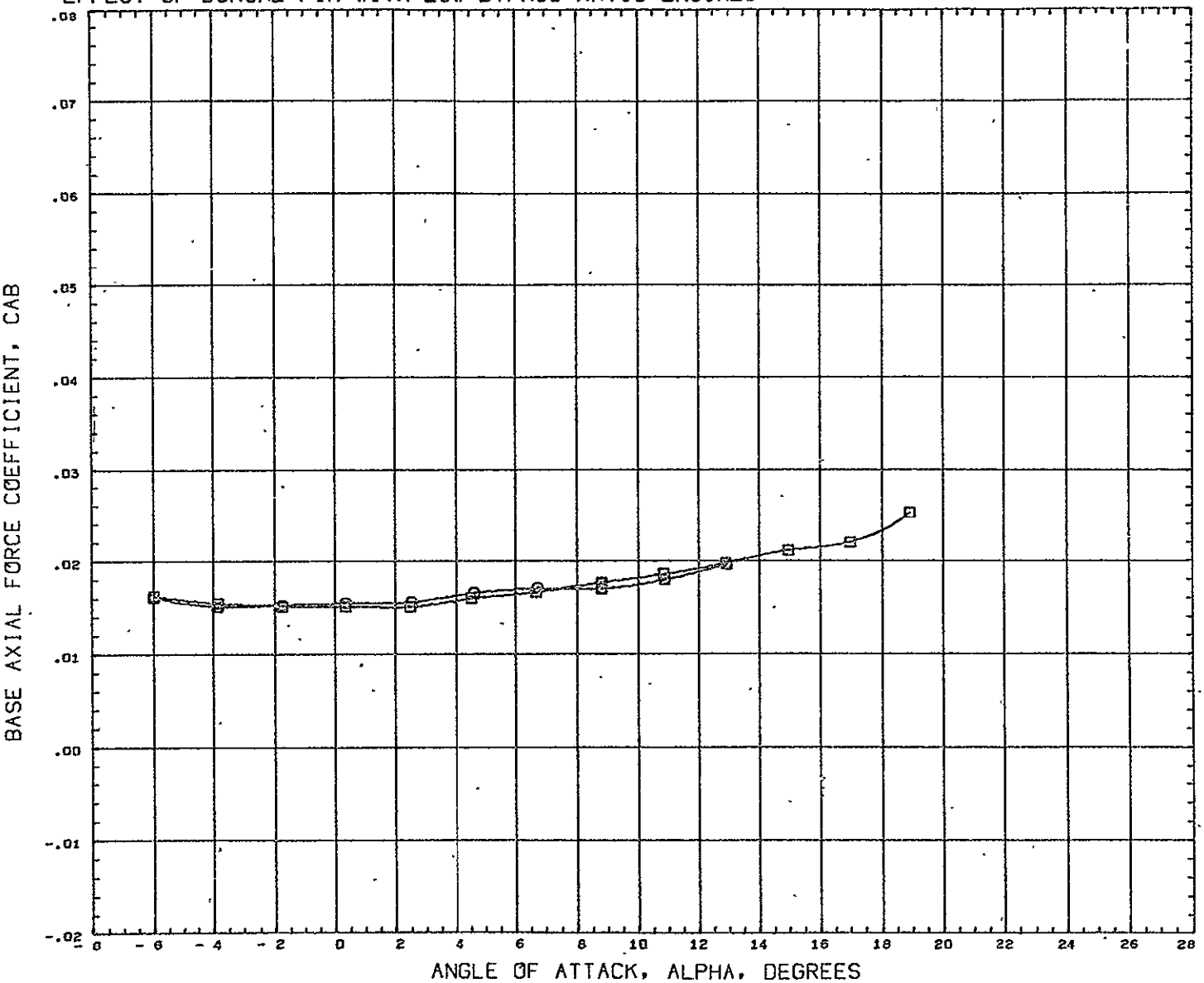
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF DORSAL FIN WITH LOW-BYPASS RATIO ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8074)	○	CVLSWT TEST 580-D B9W3AT4V4K2K3E21
(RC8070)	□	CVLSWT TEST 580-D B9W3AT4V4K2E21

PARAMETRIC VALUES

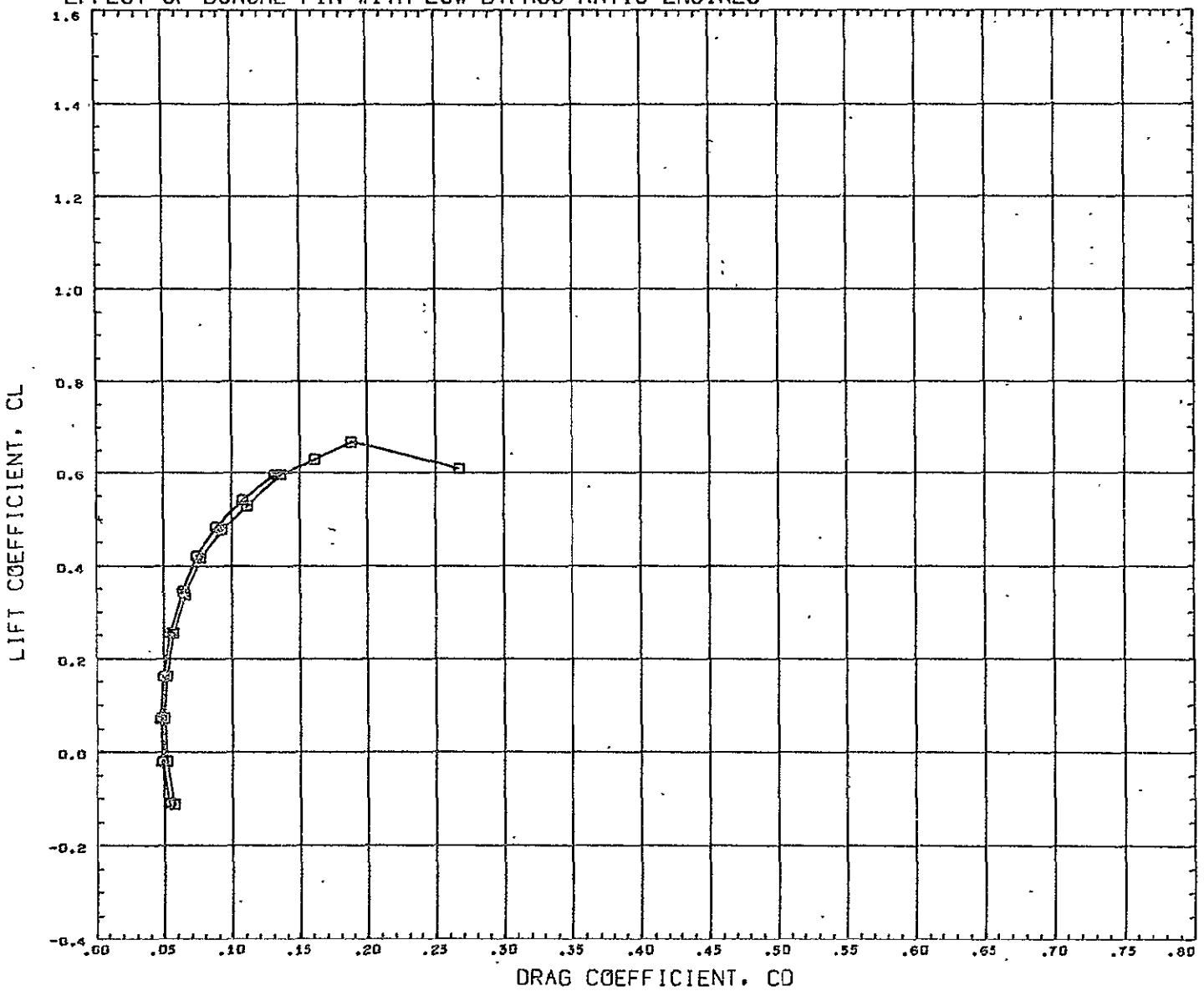
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF DORSAL FIN WITH LOW-BYPASS RATIO ENGINES



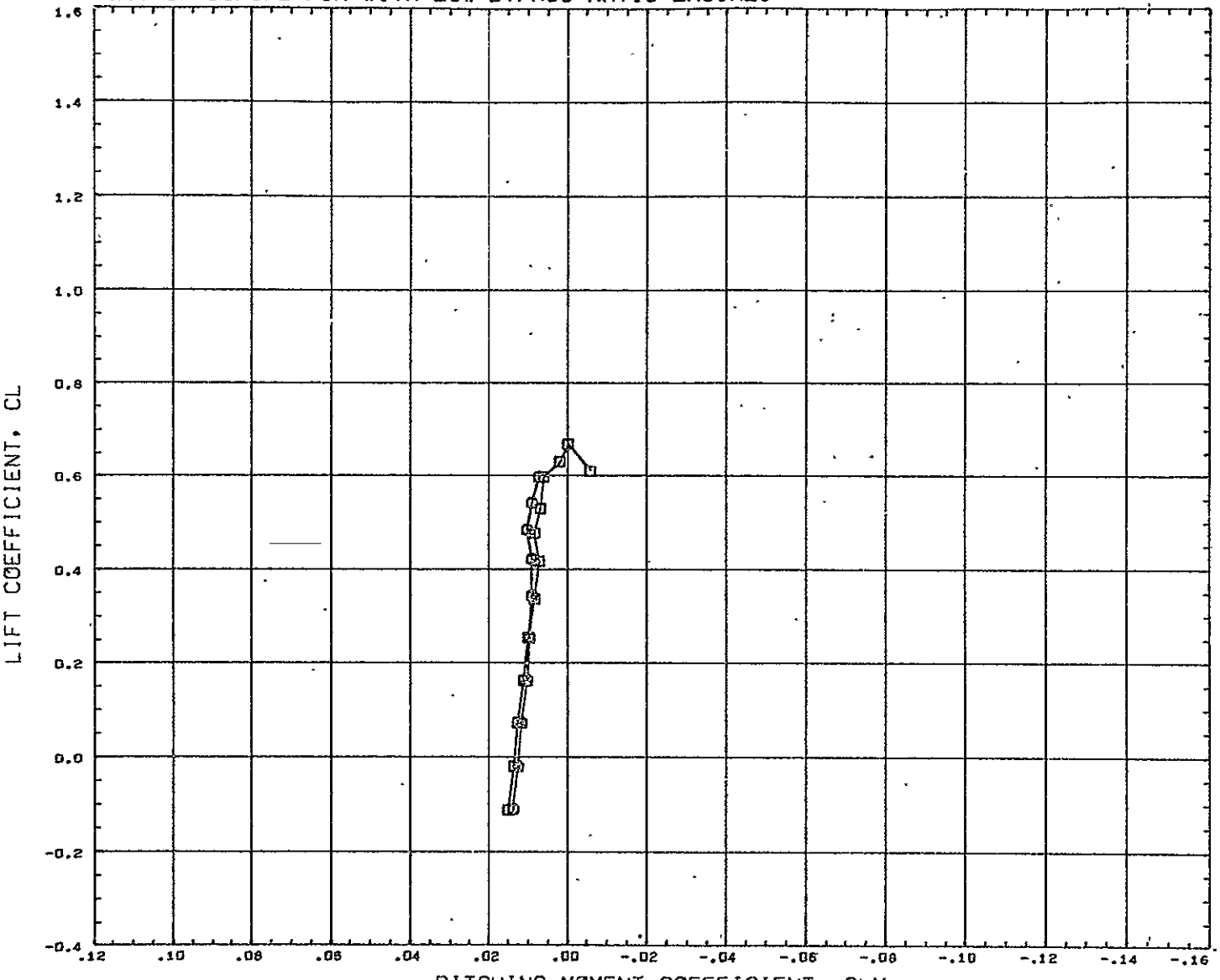
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8074)	○	CVLSWT TEST 580-0 B9W3AT4V4K2K3E21
(RC8070)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E21

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF DORSAL FIN WITH LOW-BYPASS RATIO ENGINES



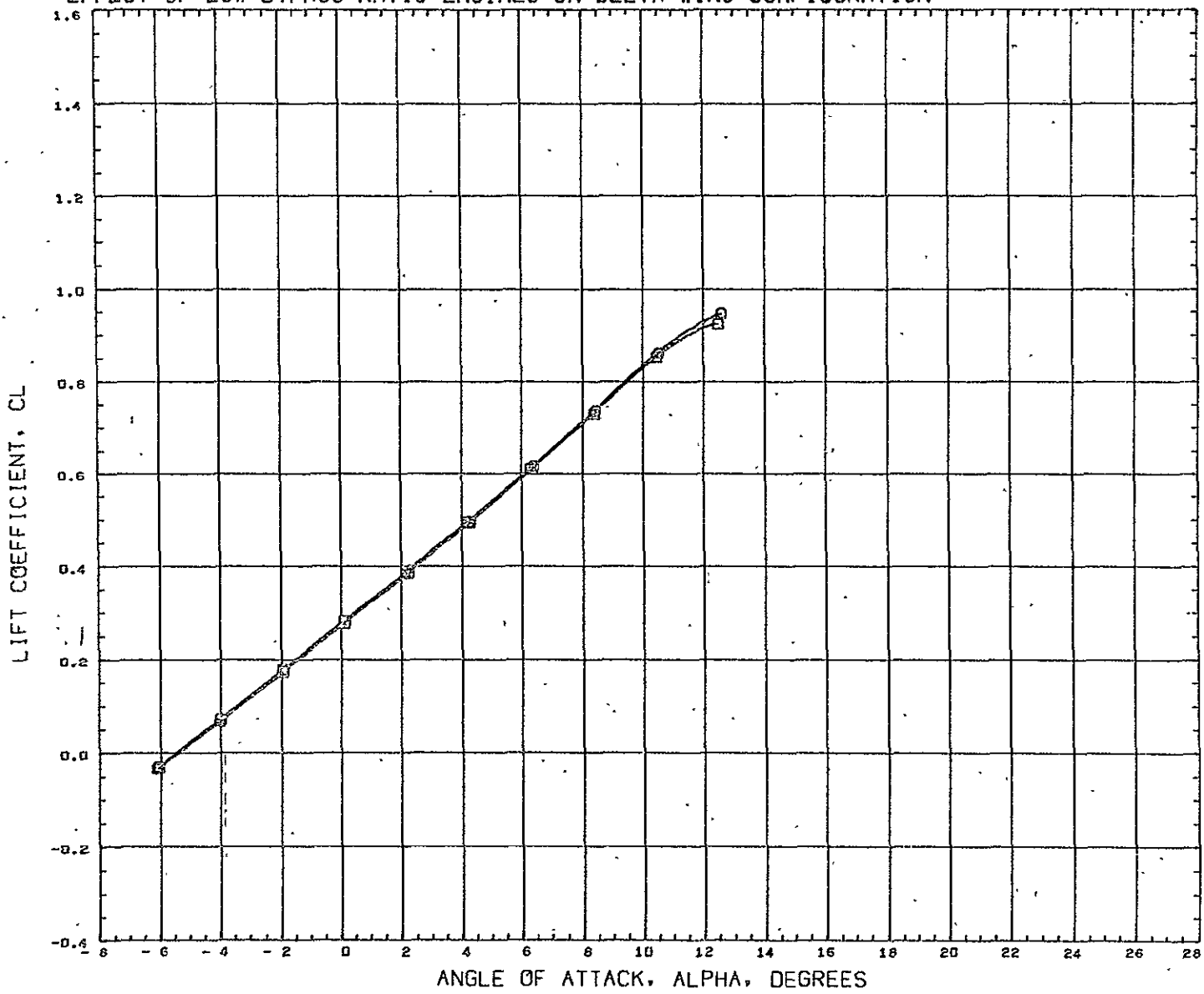
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8074)	○	CVLSWT TEST 580-0 B9W3AT4V4K2K3E21
(RC8070)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E21

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	21.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINES ON DELTA WING CONFIGURATION



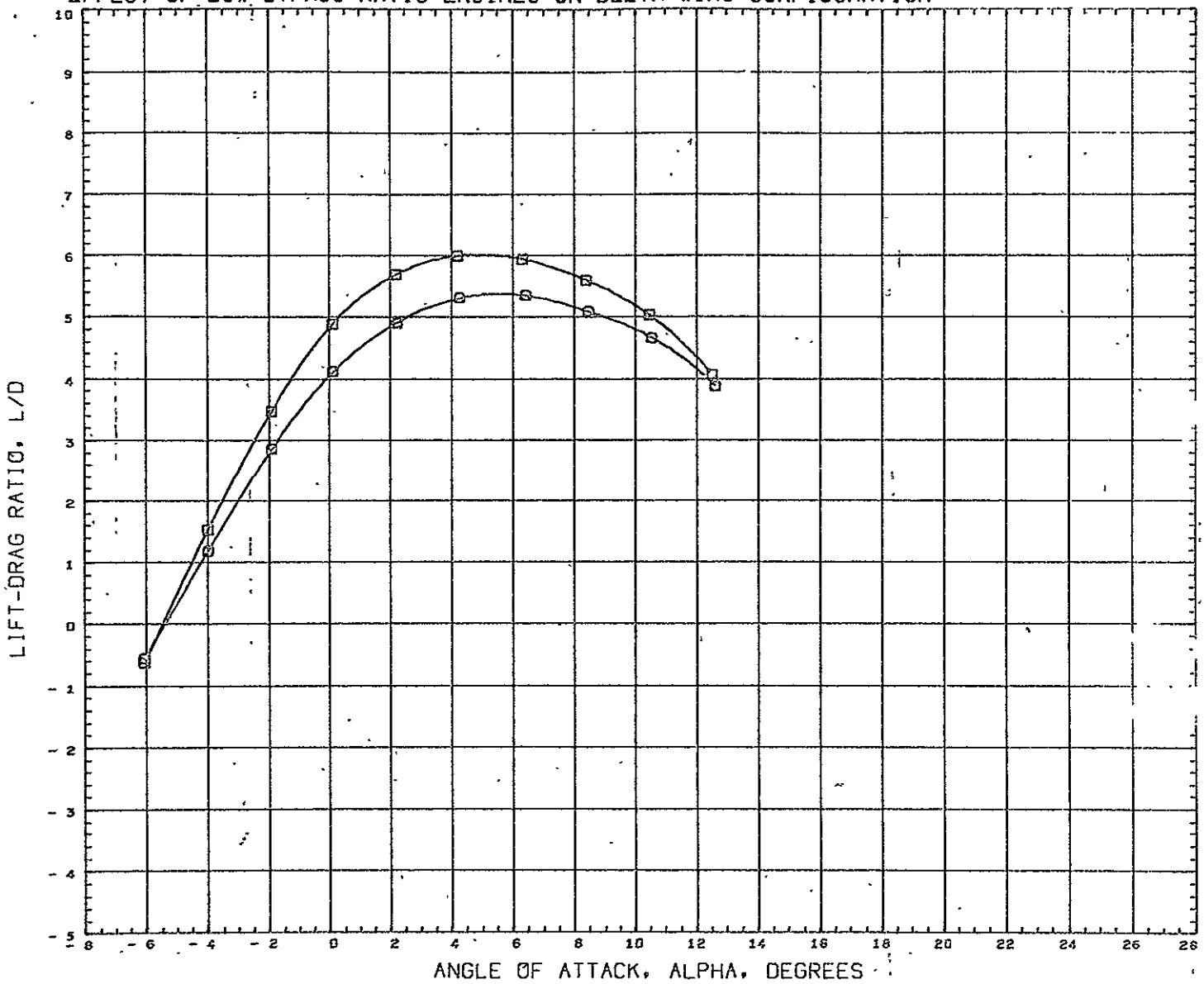
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8103)	○	CVLSWT TEST 580-0 B9W5V1K2E18
(RC8102)	□	CVLSWT TEST 580-0 B9W5V1K2

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVON	0.000
AILRON	0.000	RUDDER	0.000
ENGINE	18.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	33.9090	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175.	

EFFECT OF LOW-BYPASS RATIO ENGINES ON DELTA WING CONFIGURATION



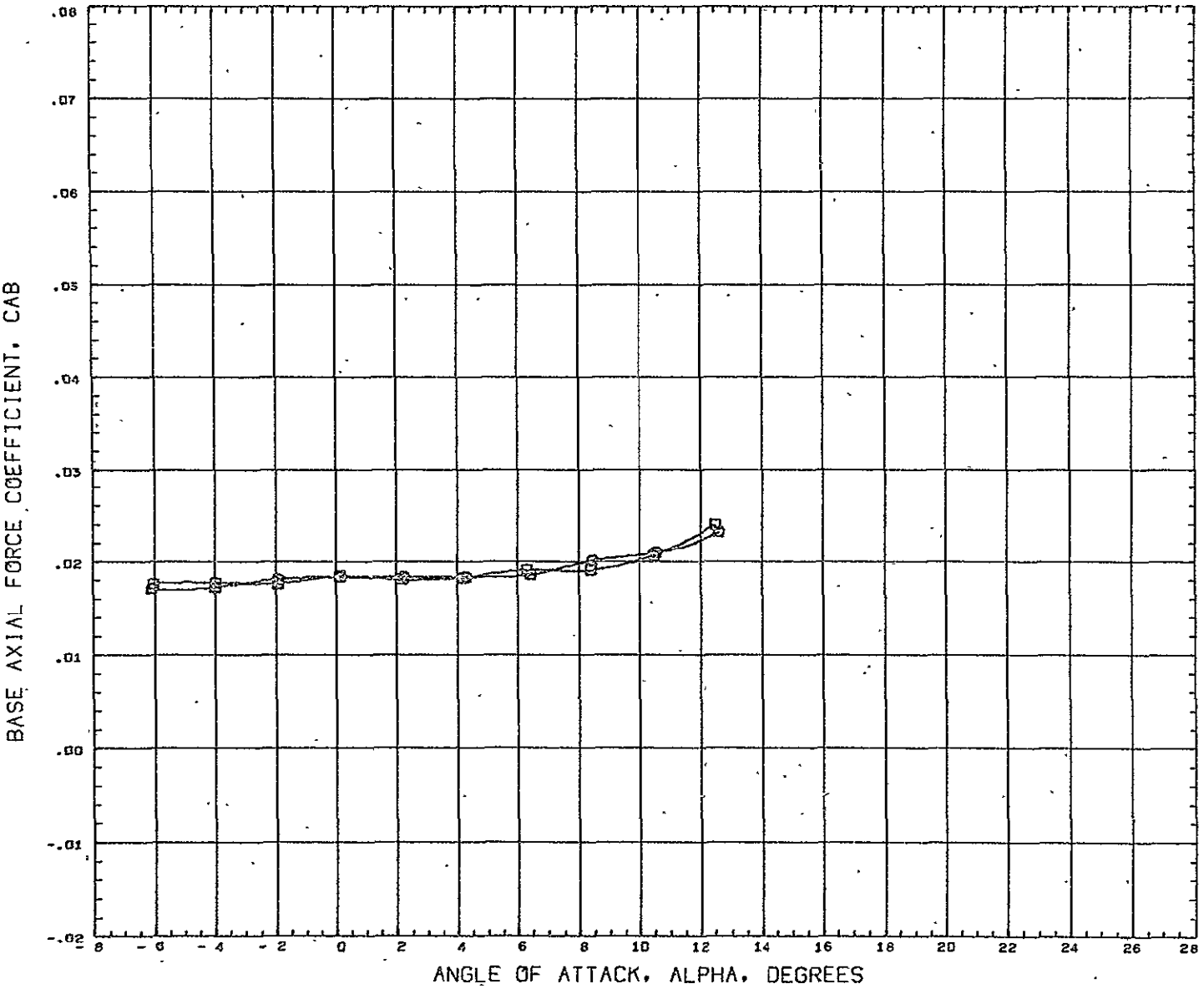
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8103)	○	CVLSWT TEST 580-0 B9W5V1K2E18
(RC8102)	□	CVLSWT TEST 580-0 B9W5V1K2

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVON	0.000
AILRON	0.000	RUDDER	0.000
ENGINE	18.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	33.9090	IN
YMRP	0.0000	IN
ZMRP	0.0600	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINES ON DELTA WING CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8103)	○	CVLSWT TEST 580-0 B9W5V1K2E18
(RC8102)	□	CVLSWT TEST 580-0 B9W5V1K2

PARAMETRIC VALUES

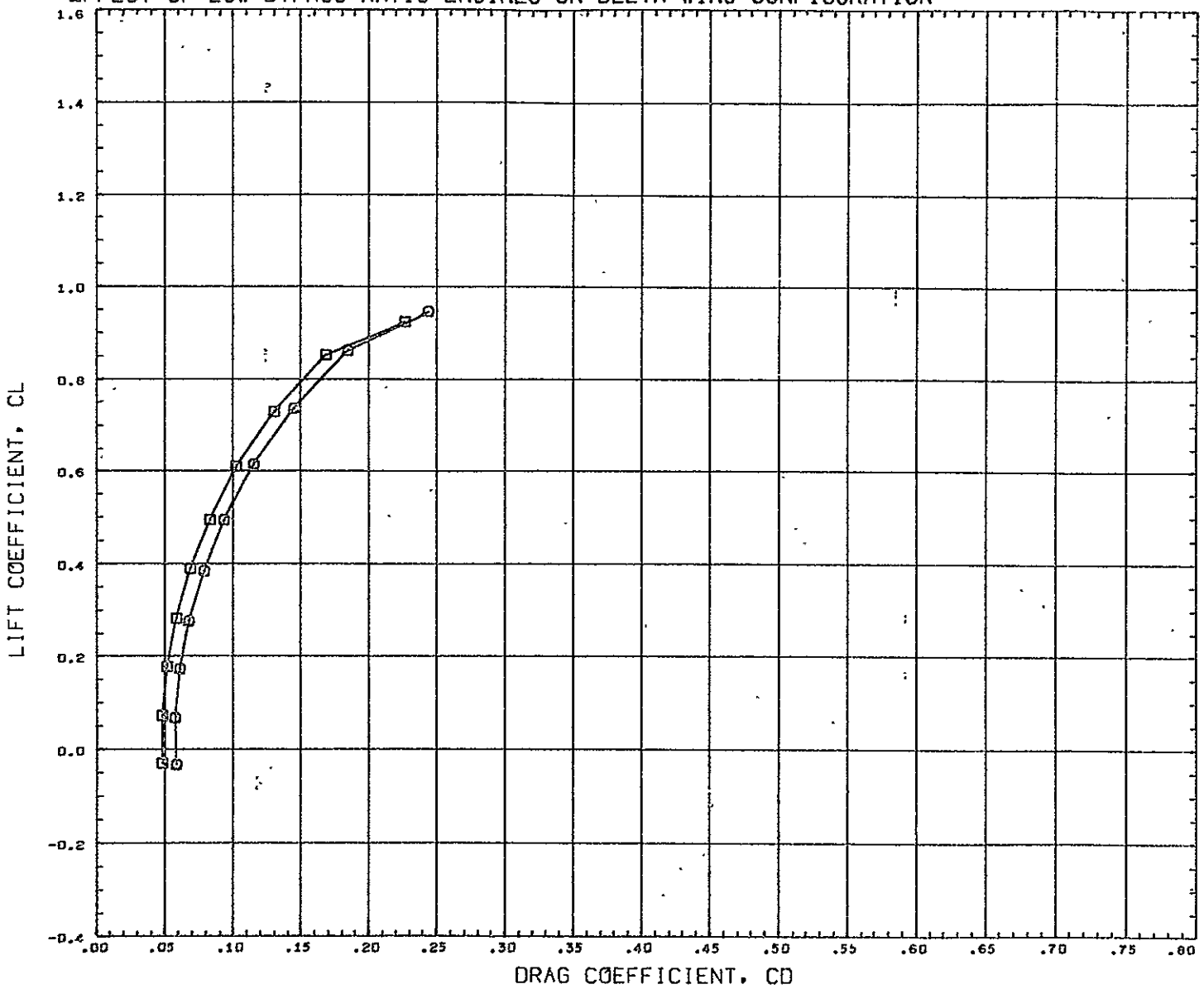
BETA	0.000	ELEVON	0.000
AILRON	0.000	RUDDER	0.000
ENGINE	18.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	33.9090	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF LOW-BYPASS RATIO ENGINES ON DELTA WING CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8103)	○	CVLSWT TEST 580-0 B9W5V1K2E18
(RC8102)	□	CVLSWT TEST 580-0 B9W5V1K2

MACH 0.259

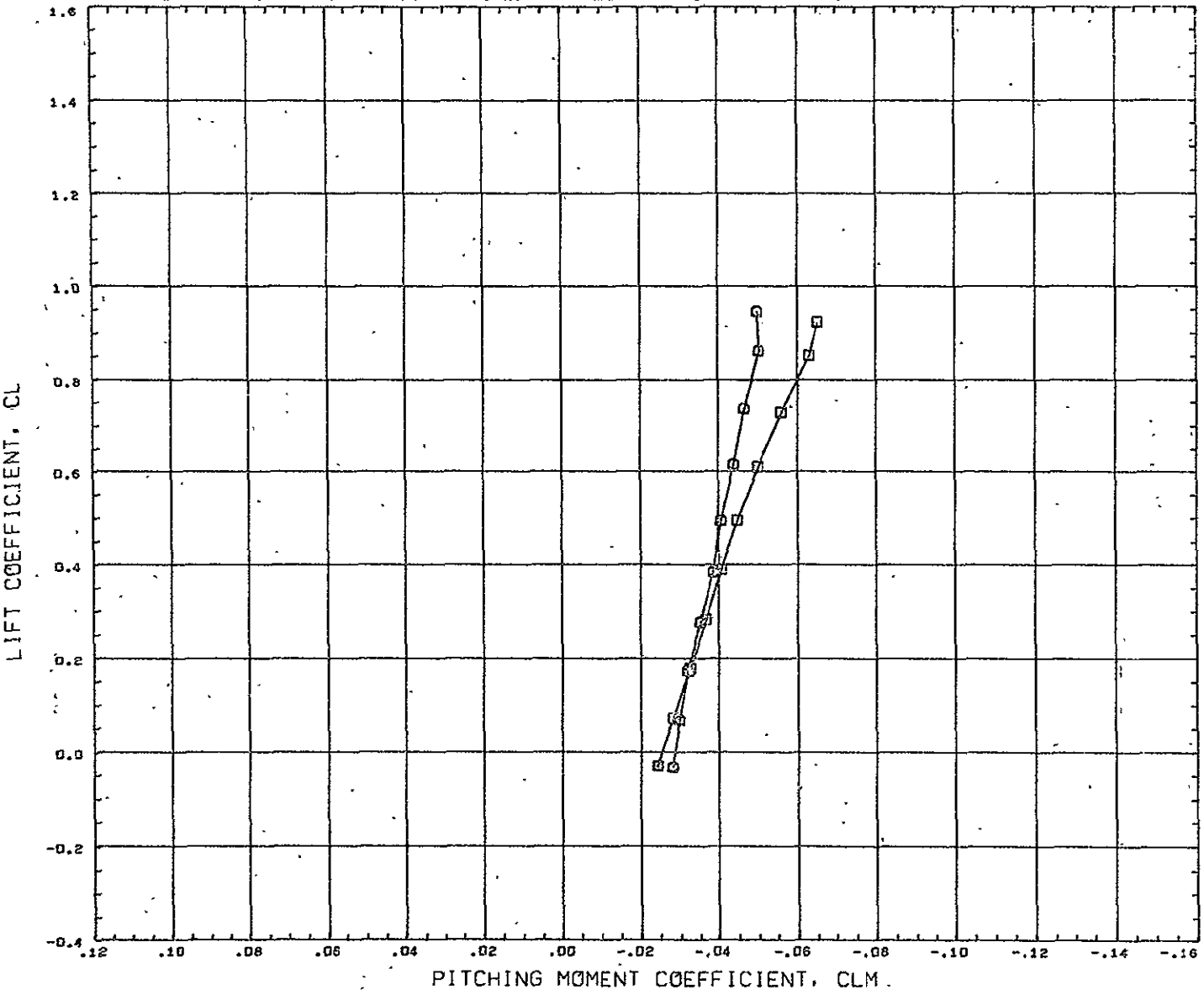
PARAMETRIC VALUES

BETA	0.000	ELEVON	0.000
AILRON	0.000	RUDDER	0.000
ENGINE	18.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	33.9090	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF LOW-BYPASS RATIO ENGINES ON DELTA WING CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8103)	○	CVLSWT TEST 580-0 B9W5V1K2E18
(RC8102)	□	CVLSWT TEST 580-0 B9W5V1K2

PARAMETRIC VALUES

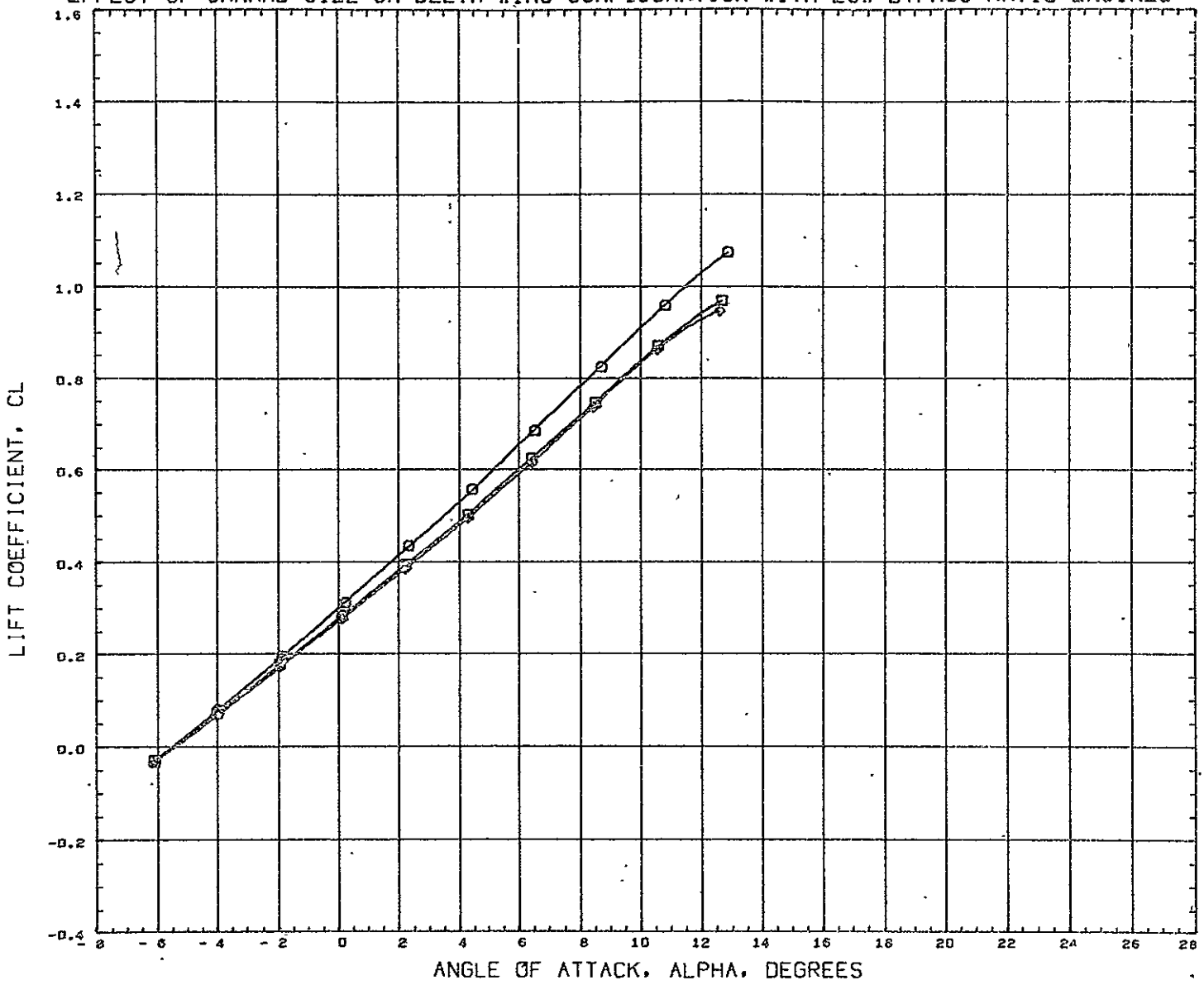
BETA	0.000	ELEVON	0.000
AILRON	0.000	RUDDER	0.000
ENGINE	18.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	33.9090	IN
YMRF	0.0300	IN
ZMRF	0.0000	IN
SCALE	0.0175	

MACH 0.259

EFFECT OF CANARD SIZE ON DELTA WING CONFIGURATION WITH LOW-BYPASS RATIO ENGINES



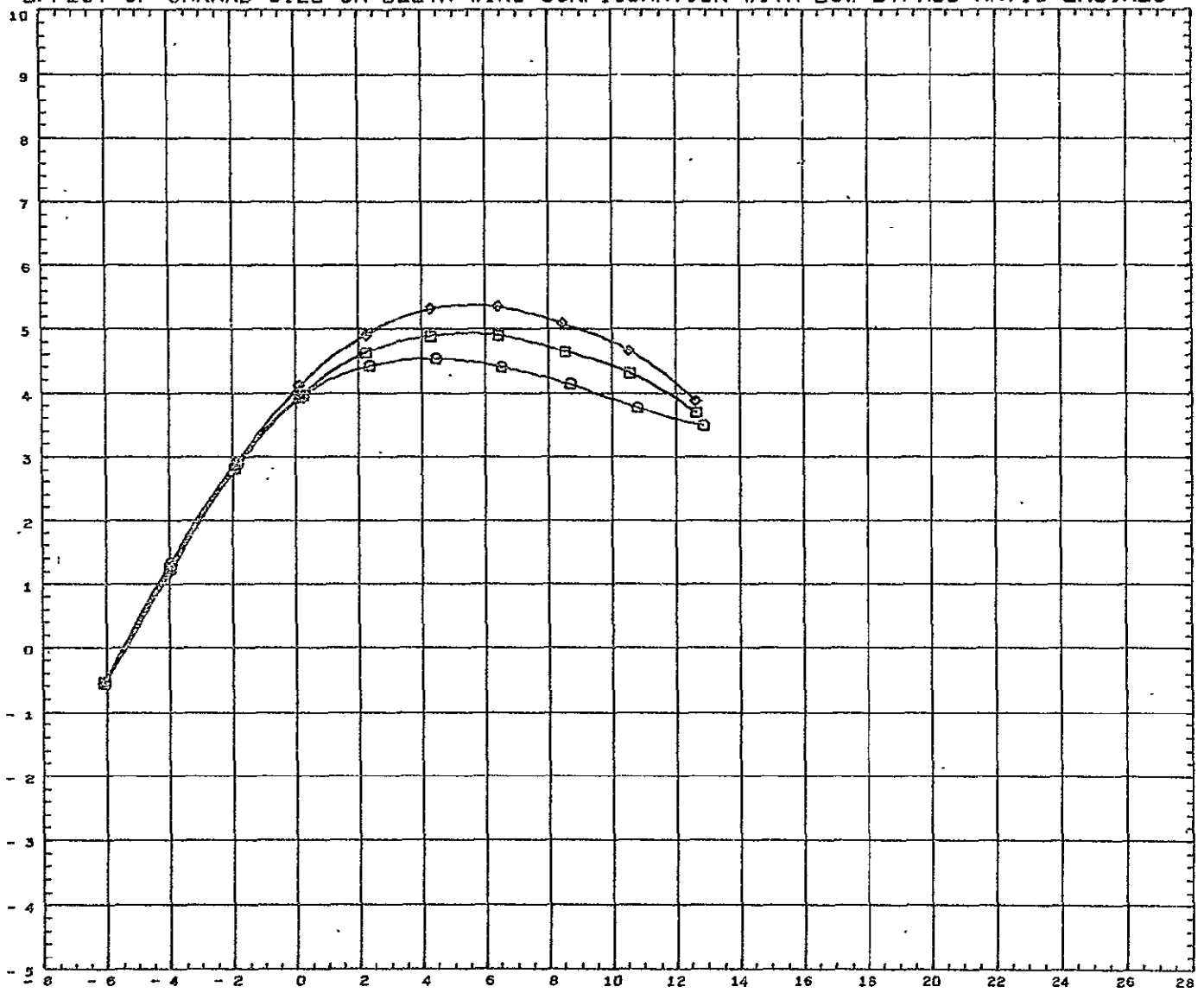
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(RC8105)	○	CVLSWT TEST 580-0 B9W5V1K2E18C2A
(RC8104)	□	CVLSWT TEST 580-0 B9W5V1K2E18C1A
(RC8103)	◇	CVLSWT TEST 580-0 B9W5V1K2E18

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVON	0.000
AILRON	0.000	RUDDER	0.000
ENGINE	18.000	CANARD -	2.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1909	IN
REFB	7.3500	IN
XMRP	33.9090	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF CANARD SIZE ON DELTA WING CONFIGURATION WITH LOW-BYPASS RATIO ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8105)	○	CVLSWT TEST 580-0 B9W5V1K2E18C2A
(RC8104)	□	CVLSWT TEST 580-0 B9W5V1K2E18C1A
(RC8103)	◇	CVLSWT TEST 580-0 B9W5V1K2E18

MACH 0.259

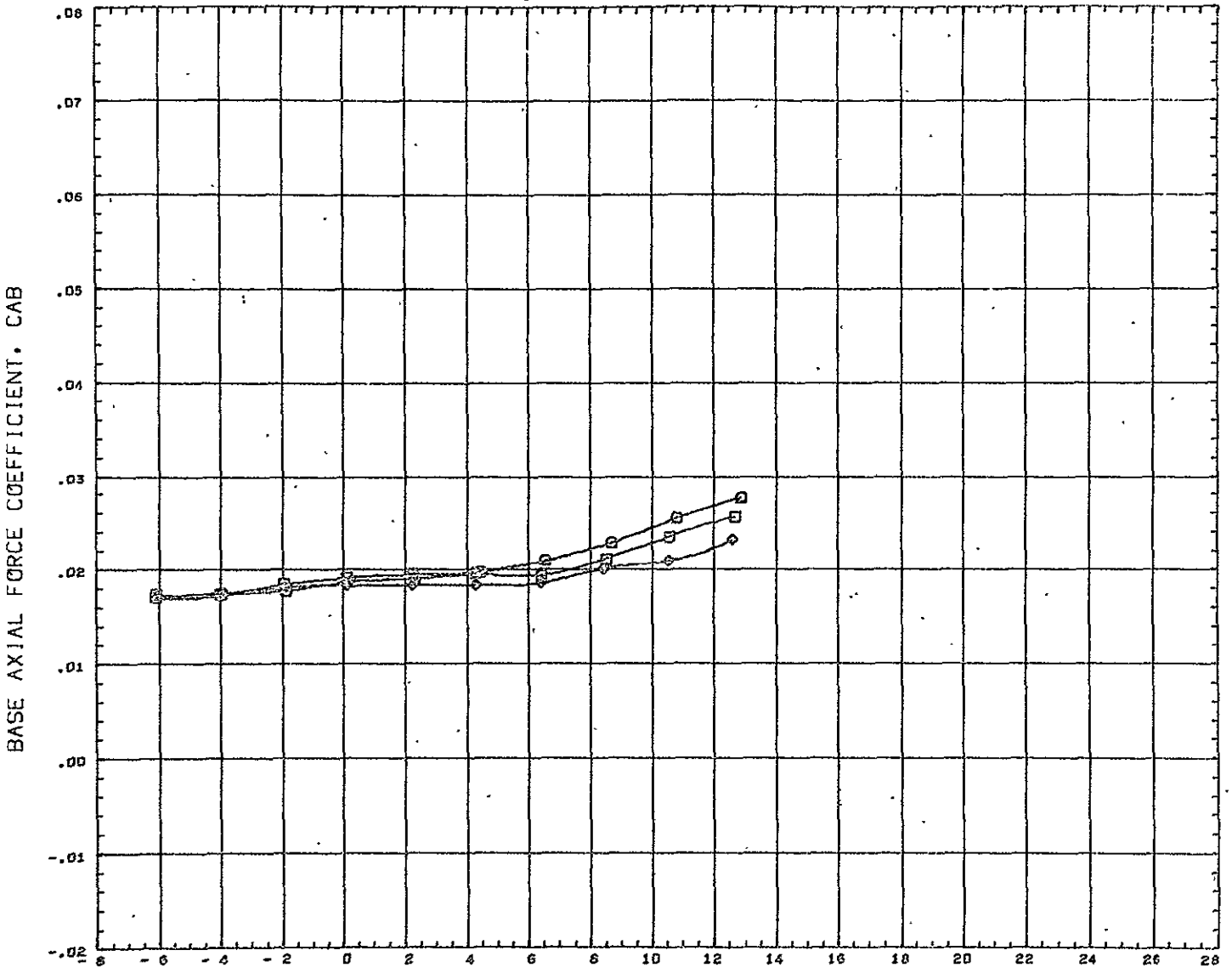
PARAMETRIC VALUES

BETA	0.000	ELEVON	0.000
AILRON	0.000	RUDDER	0.000
ENGINE	18.000	CANARD	- 2.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	33.9090	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF CANARD SIZE ON DELTA WING CONFIGURATION WITH LOW-BYPASS RATIO ENGINES



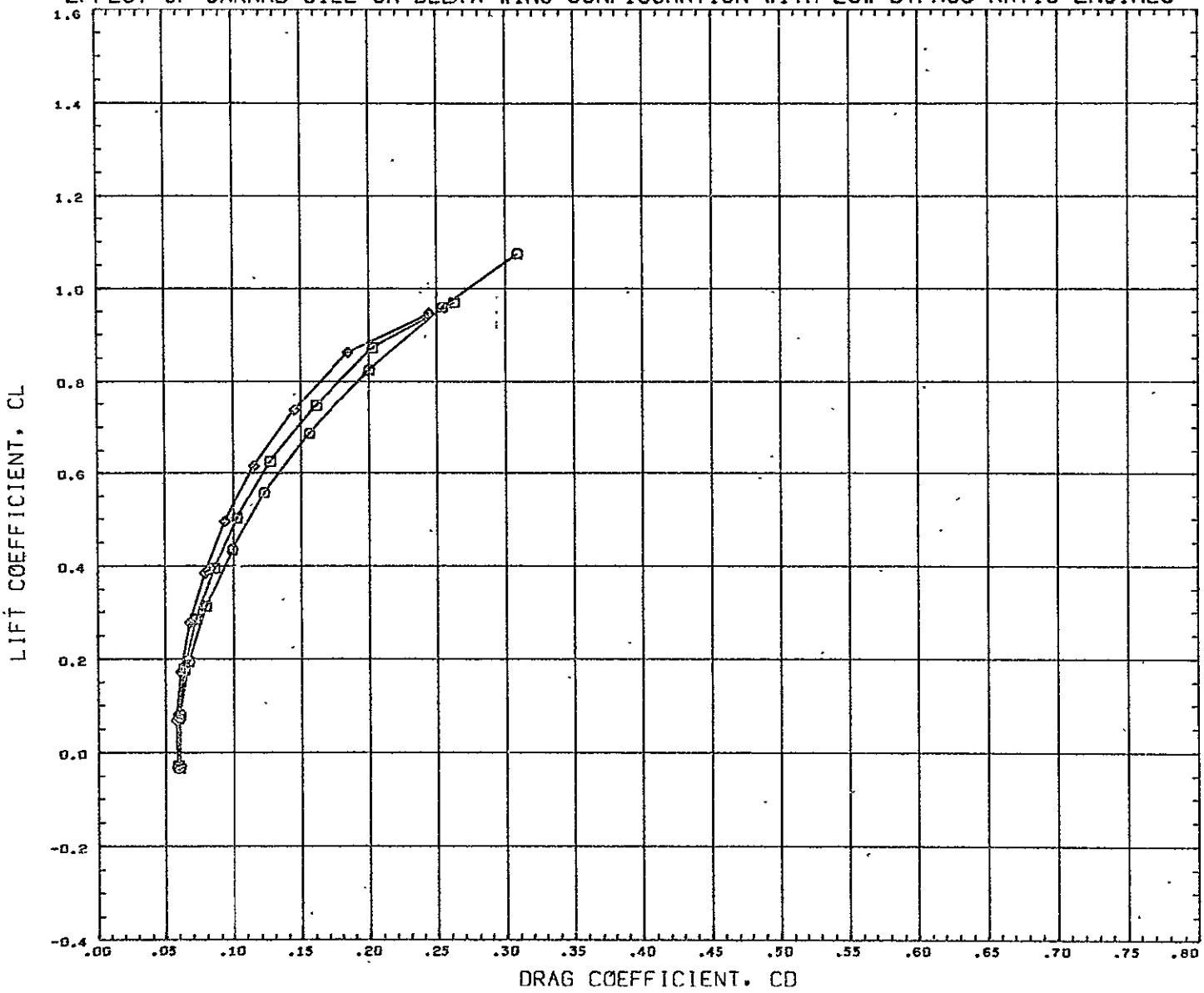
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC0105)	○	CVLSWT TEST 580-0 B9W5V1K2E18C2A
(RC0104)	□	CVLSWT TEST 580-0 B9W5V1K2E18C1A
(RC0103)	◇	CVLSWT TEST 580-0 B9W5V1K2E18

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVON	0.000
AILRON	0.000	RUDDER	0.000
ENGINE	18.000	CANARD -	2.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	33.9090	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF CANARD SIZE ON DELTA WING CONFIGURATION WITH LOW-BYPASS RATIO ENGINES



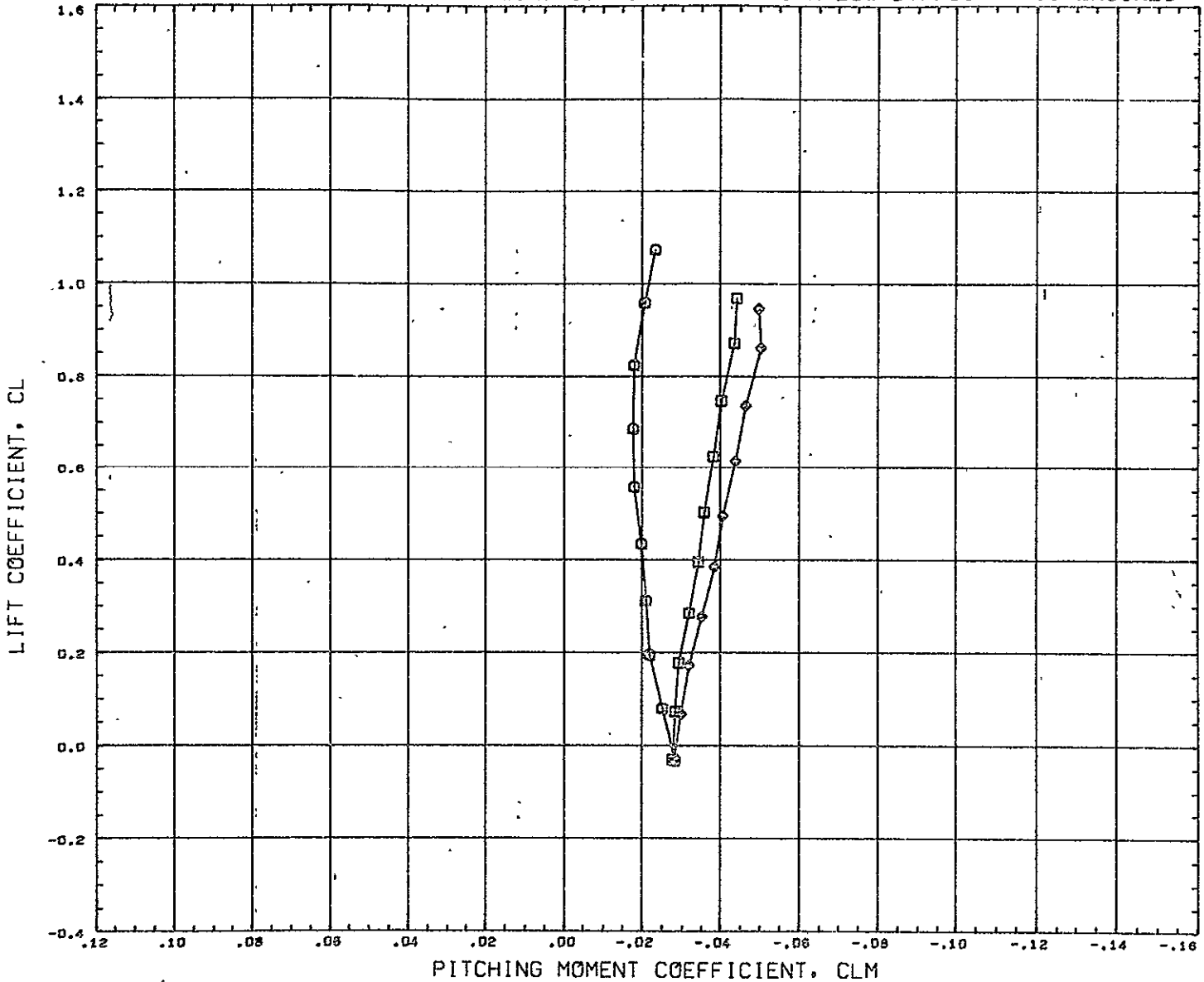
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8105)	○	CVLSWT TEST 580-0 B9W5V1K2E18C2A
(RC8104)	□	CVLSWT TEST 580-0 B9W5V1K2E18C1A
(RC8103)	◇	CVLSWT TEST 580-0 B9W5V1K2E18

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVON	0.000
AILRON	0.000	RUDDER	0.000
ENGINE	18.000	CANARD	- 2.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	33.9090	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF CANARD SIZE ON DELTA WING CONFIGURATION WITH LOW-BYPASS RATIO ENGINES



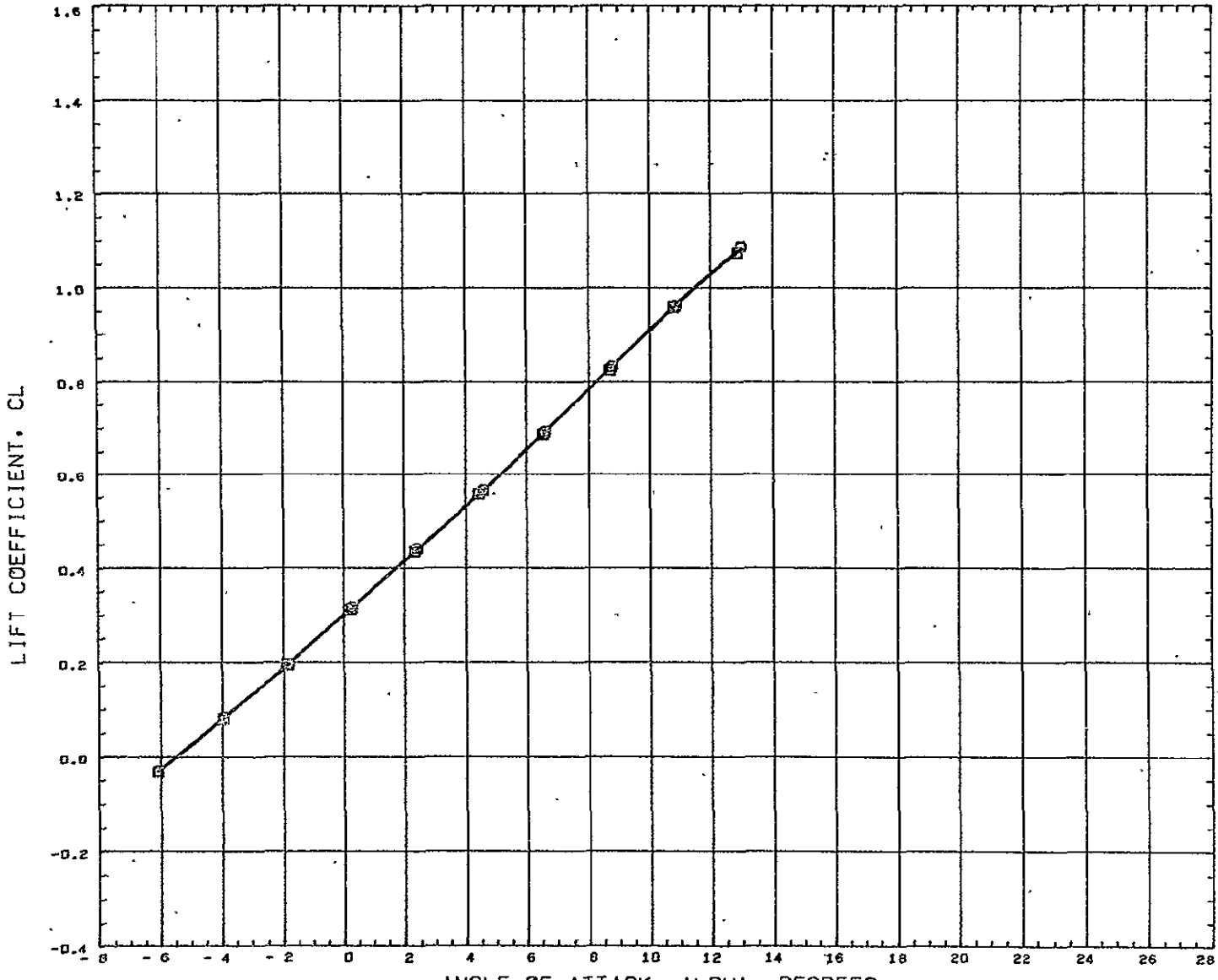
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8105)	○	CVLSWT TEST 580-0 B9W5V1K2E18C2A
(RC8104)	□	CVLSWT TEST 580-0 B9W5V1K2E18C1A
(RC8103)	◇	CVLSWT TEST 580-0. B9W5V1K2E18

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVON	0.000
AILRON	0.000	RUDDER	0.000
ENGINE	18.000	CANARD -	2.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	33.9090	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF CANARD POSITION ON DELTA WING CONFIG WITH LOW-BYPASS RATIO ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8106)	○	CVLSWT TEST 580-0 B9W5V1K2E18C2B
(RC8105)	□	CVLSWT TEST 580-0 B9W5V1K2E18C2A

MACH 0.259

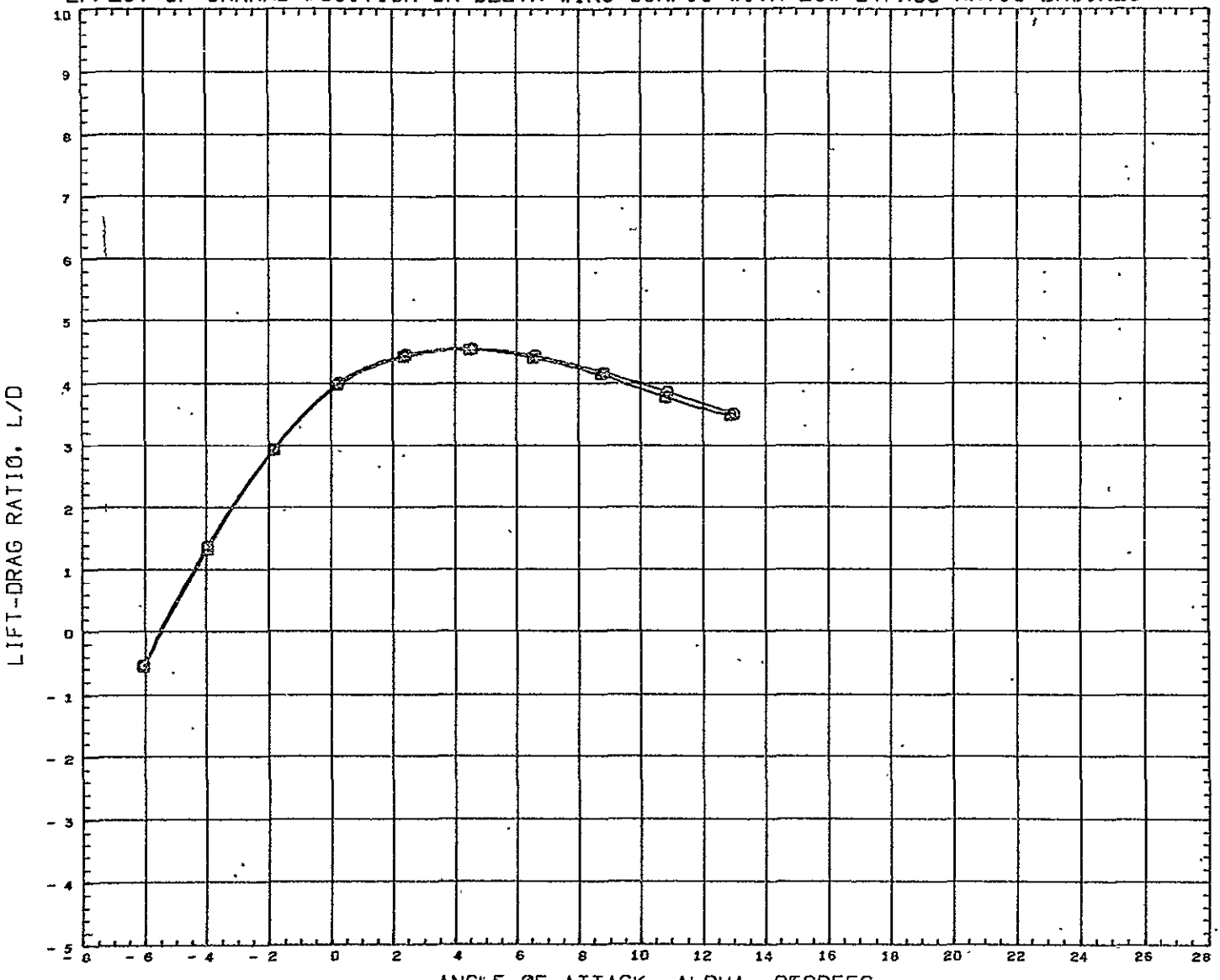
PARAMETRIC VALUES

BETA	0.000	ELEVON	0.000
AILRON	0.000	RUDDER	0.000
ENGINE	18.000	CANARD	2.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	33.9090	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF CANARD POSITION ON DELTA WING CONFIG WITH LOW-BYPASS RATIO ENGINES

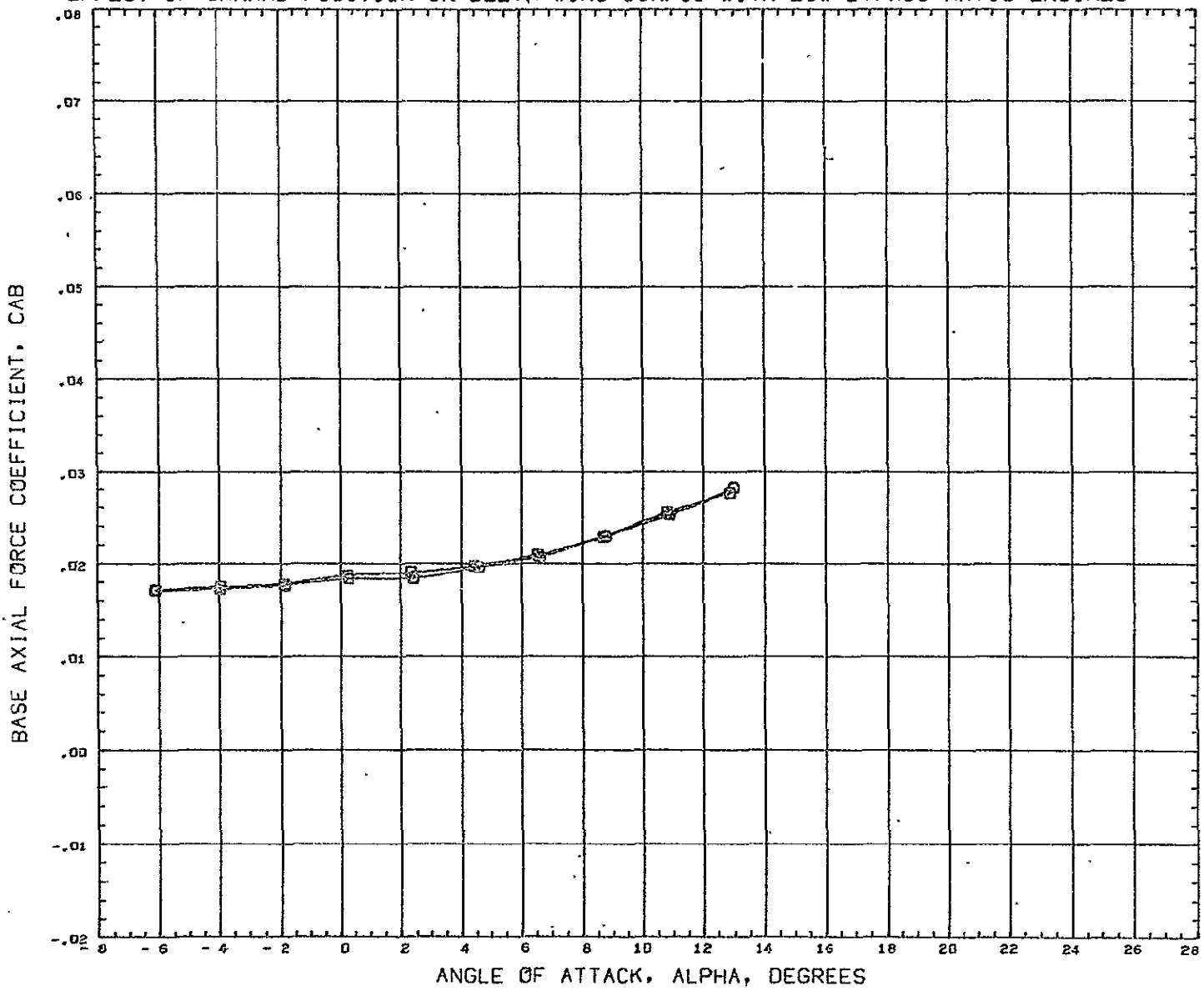


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8106)	○	CVLSWT TEST 580-0 B9W5V1K2E18C28
(RC8105)	□	CVLSWT TEST 580-0 B9W5V1K2E18C2A

PARAMETRIC VALUES				REFERENCE INFORMATION		
BETA	0.000	ELEVON	0.000	REFS	316.2304	SQ IN
AILRON	0.000	RUDDER	0.000	REFL	50.1900	IN
ENGINE	18.000	CANARD	2.000	REFB	7.3500	IN
				XMRP	33.9090	IN
				YMRP	0.0000	IN
				ZMRP	0.0000	IN
				SCALE	0.0175	

MACH 0.259

EFFECT OF CANARD POSITION ON DELTA WING CONFIG WITH LOW-BYPASS RATIO ENGINES



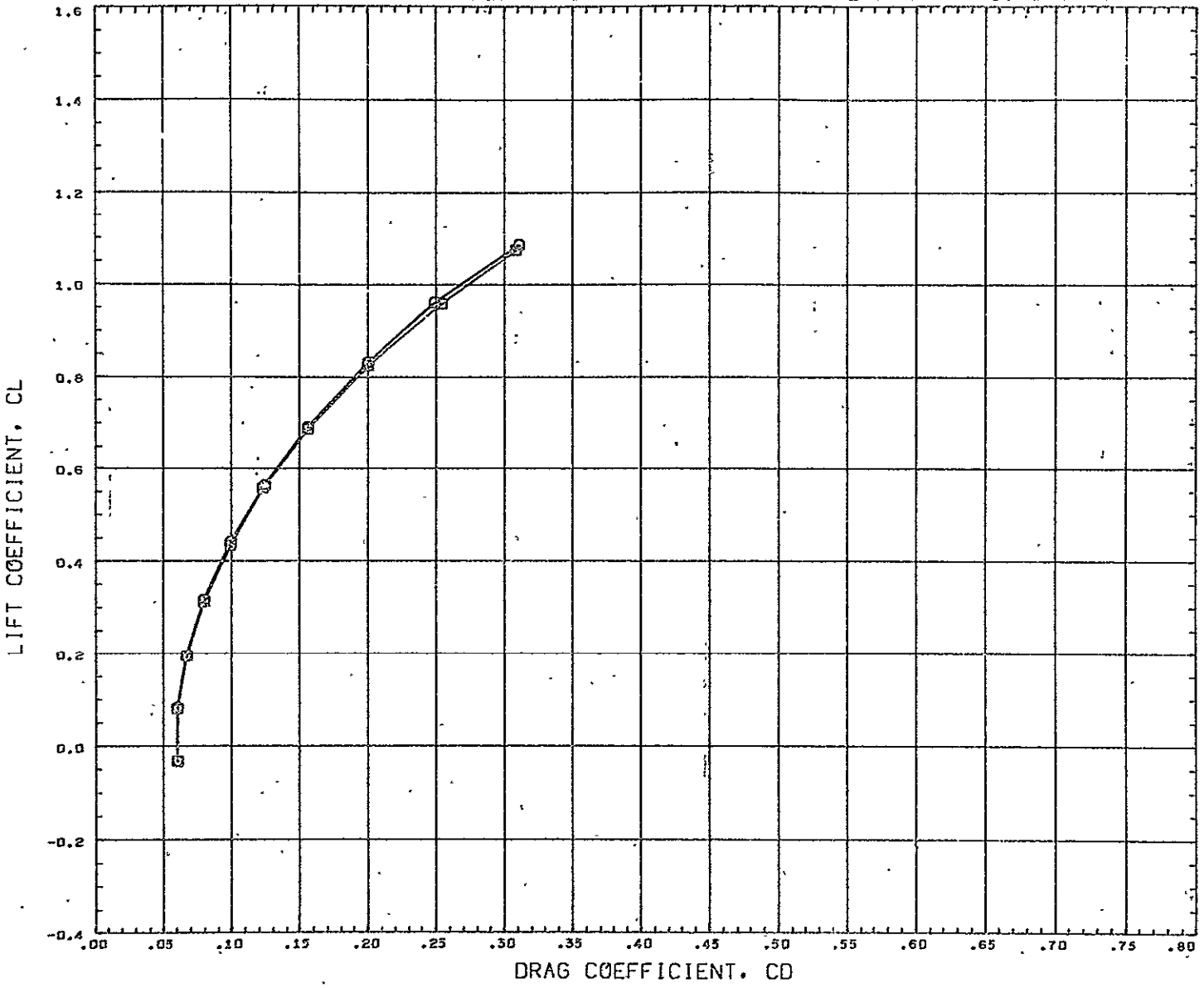
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC0106)	○	CVLSWT TEST 580-D B9W5V1K2E18C2B
(RC0105)	□	CVLSWT TEST 580-D B9W5V1K2E18C2A

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVON	0.000
AILRON	0.000	RUDDER	0.000
ENGINE.	18.000	CANARD	2.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	33.9090	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

EFFECT OF CANARD POSITION ON DELTA WING CONFIG WITH LOW-BYPASS RATIO ENGINES

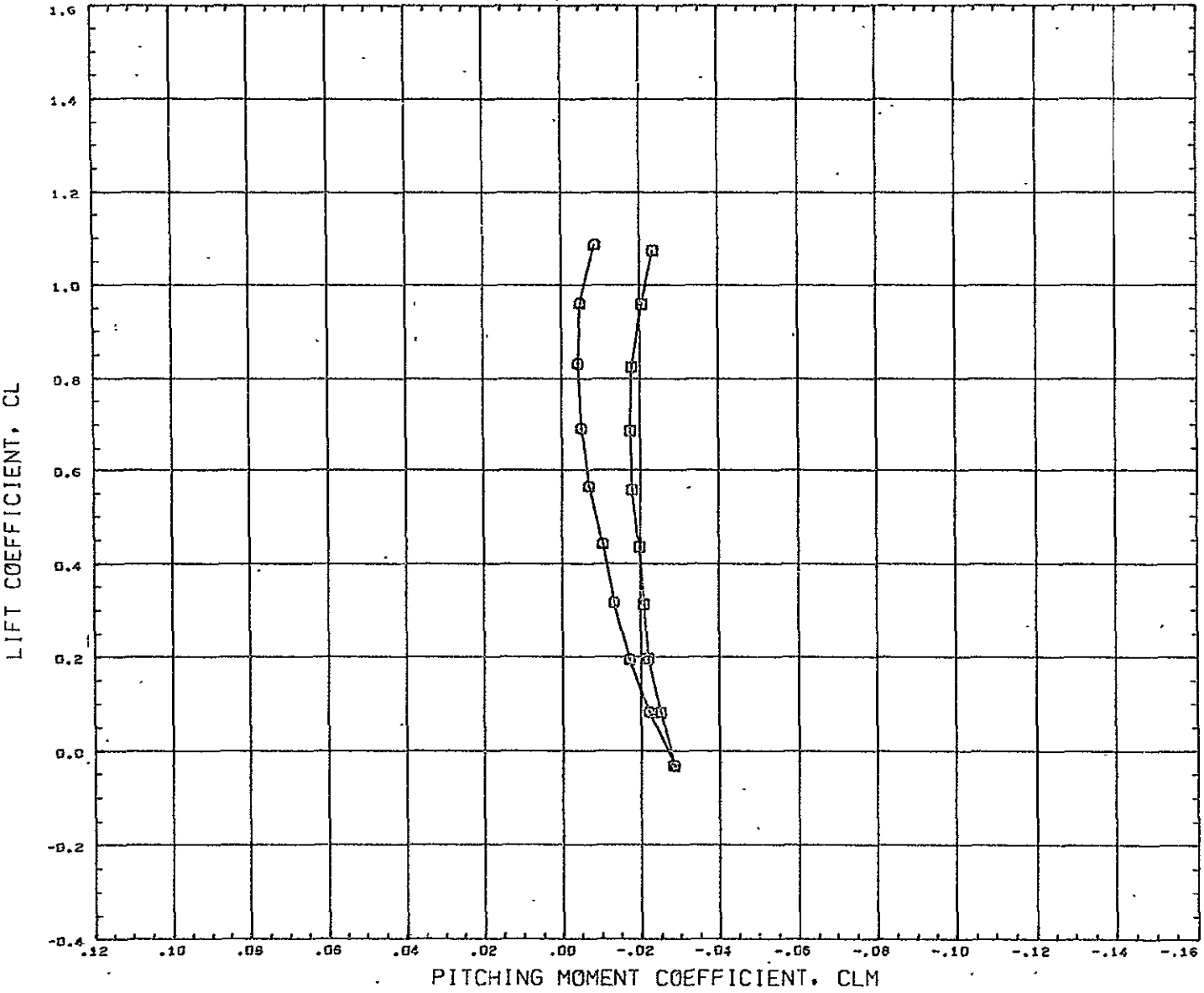


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8106)	○	CVLSWT TEST 580-0 B9W5V1K2E18C2B
(RC8105)	□	CVLSWT TEST 580-0 B9W5V1K2E18C2A

MACH 0.259

PARAMETRIC VALUES				REFERENCE INFORMATION		
BETA	0.000	ELEVON	0.000	REFS	316.2304	SQ IN
AILRON	0.000	RUDDER	0.000	REFL	50.1900	IN
ENGINE	18.000	CANARD	2.000	REFB	7.3500	IN
				XMRP	33.9090	IN
				YMRP	0.0000	IN.
				ZMRP	0.0000	IN
				SCALE	0.0175	

EFFECT OF CANARD POSITION ON DELTA WING CONFIG WITH LOW-BYPASS RATIO ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8106)	○	CVLSWT TEST 580-0 B9W5V1K2E18C2B
(RC8105)	□	CVLSWT TEST 580-0 B9W5V1K2E18C2A

PARAMETRIC VALUES

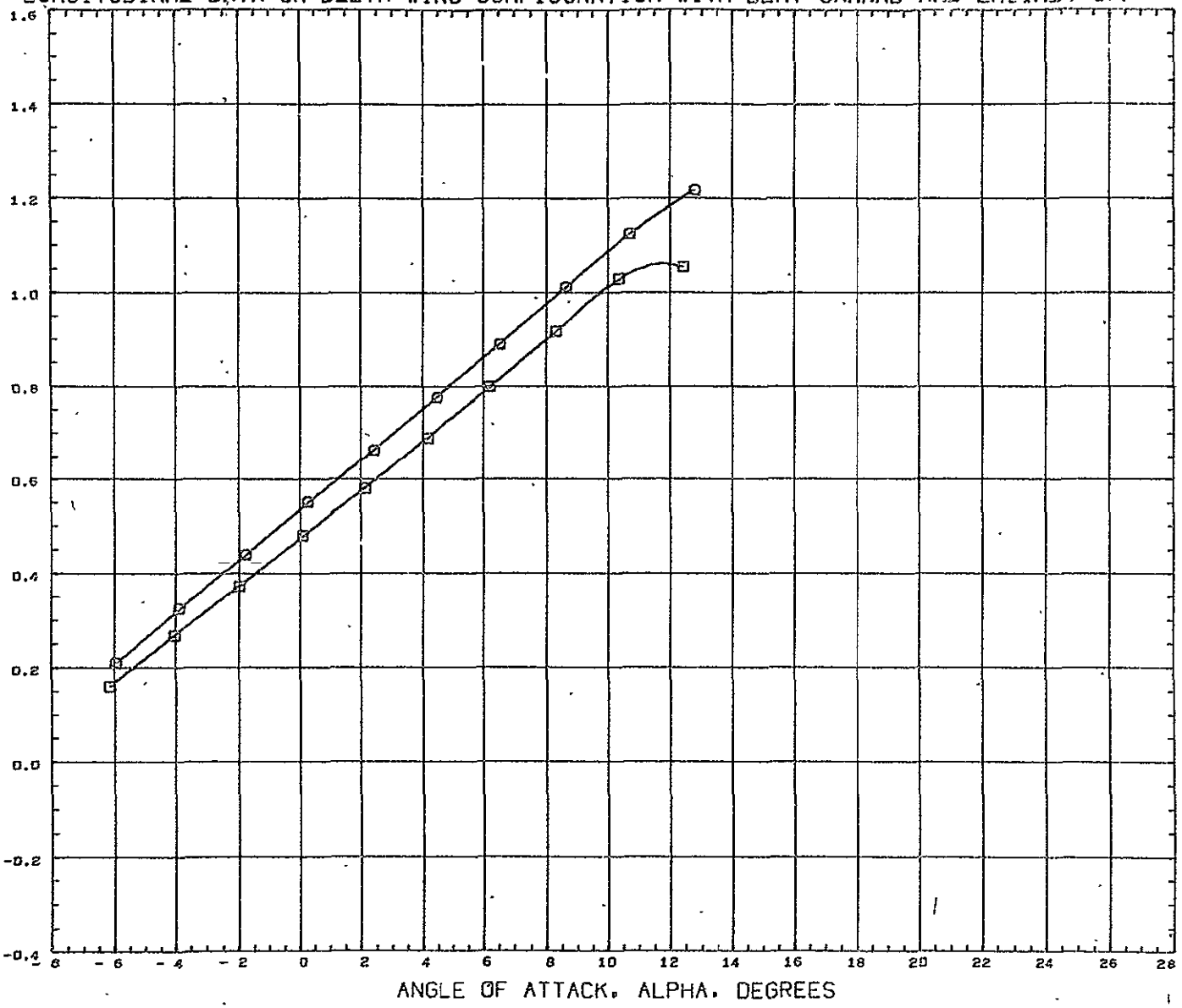
BETA	0.000	ELEVON	0.000
AILRON	0.000	RUDDER	0.000
ENGINE	18.000	CANARD	2.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	33.9090	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

LONGITUDINAL DATA ON DELTA WING CONFIGURATION WITH BENT CANARD AND ENGINES OFF



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8107)	O	CVLSWT TEST 580-0 B7W5V1C3A
(RC8108)	□	CVLSWT TEST 580-0 B7W5V1

MACH 0.259

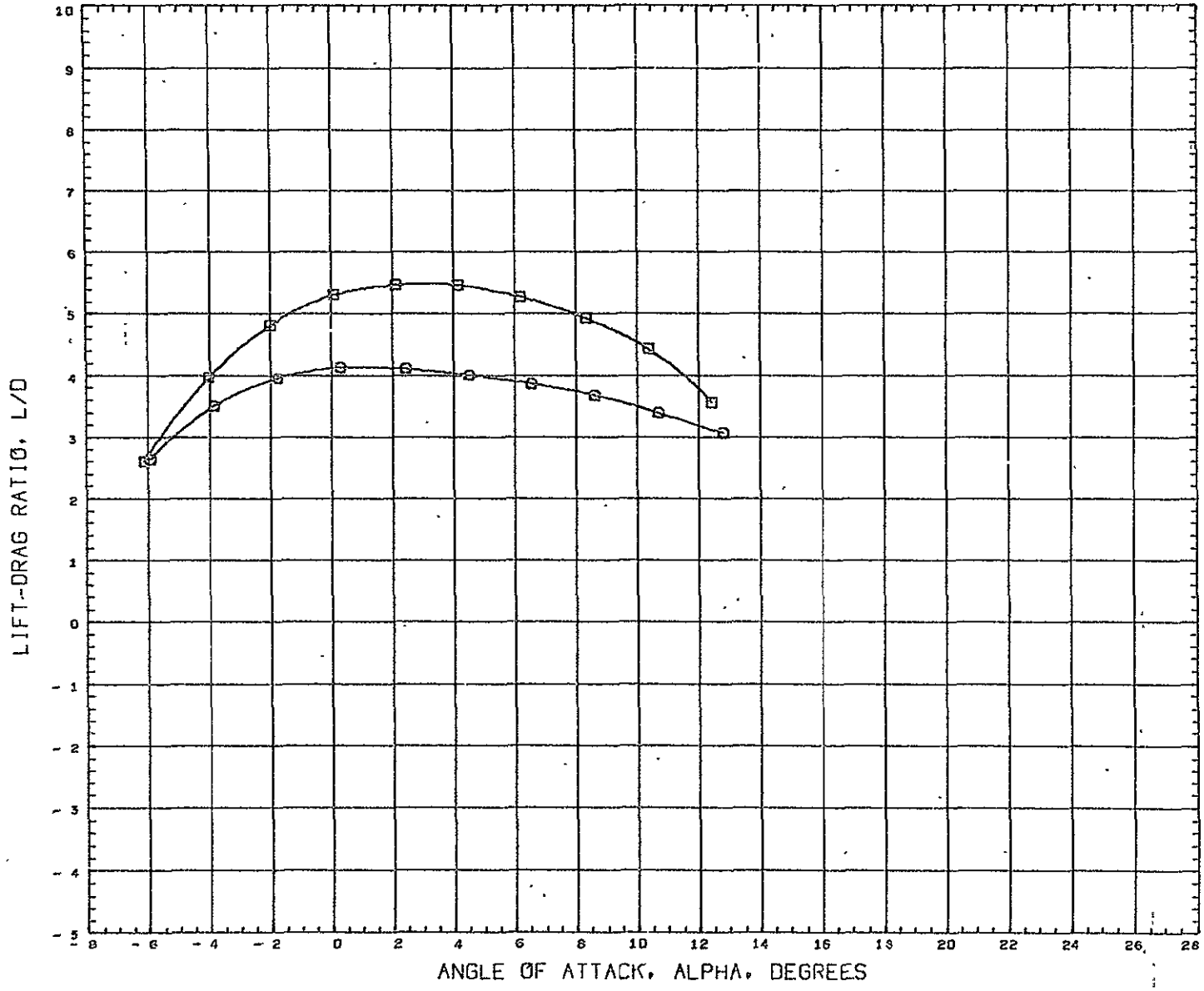
PARAMETRIC VALUES

BETA	0.000	ELEVON	10.000
AILRON	0.000	RUDDER	0.000
CANARD	- 3.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	33.9090	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA ON DELTA WING CONFIGURATION WITH BENT CANARD AND ENGINES OFF



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8107)	○	CVLSWT TEST 580-0 B7W5V1C3A
(RC8108)	□	CVLSWT TEST 580-0 B7W5V1

MACH 0.259

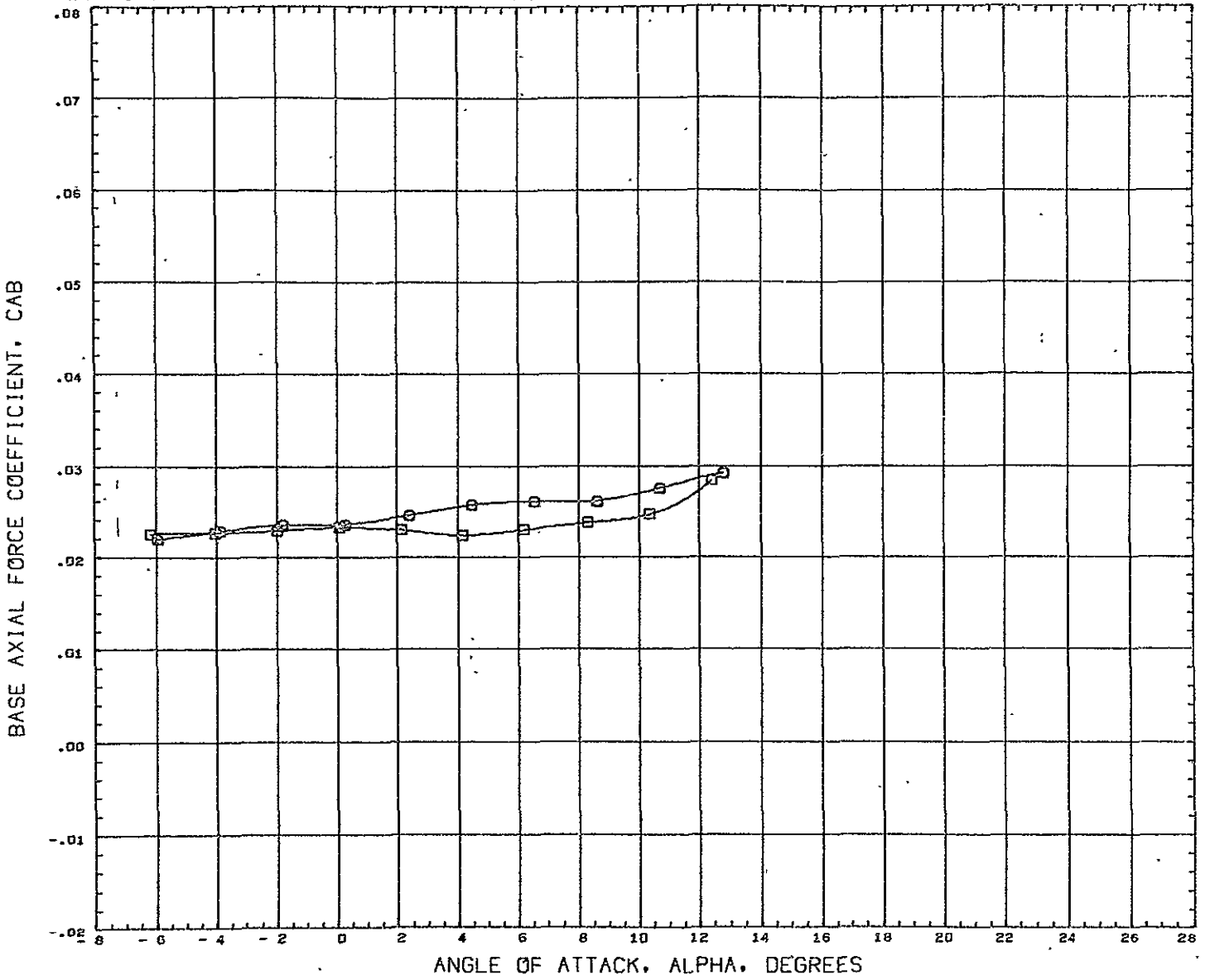
PARAMETRIC VALUES

BETA	0.000	ELEVON	10.000
AILRON	0.000	RUDDER	0.000
CANARD -	3.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	33.9090	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA ON DELTA WING CONFIGURATION WITH BENT CANARD AND ENGINES OFF



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8107)	○	CVLSWT TEST 580-0 B7W5V1C3A
(RC8108)	□	CVLSWT TEST 580-0 B7W5V1

PARAMETRIC VALUES

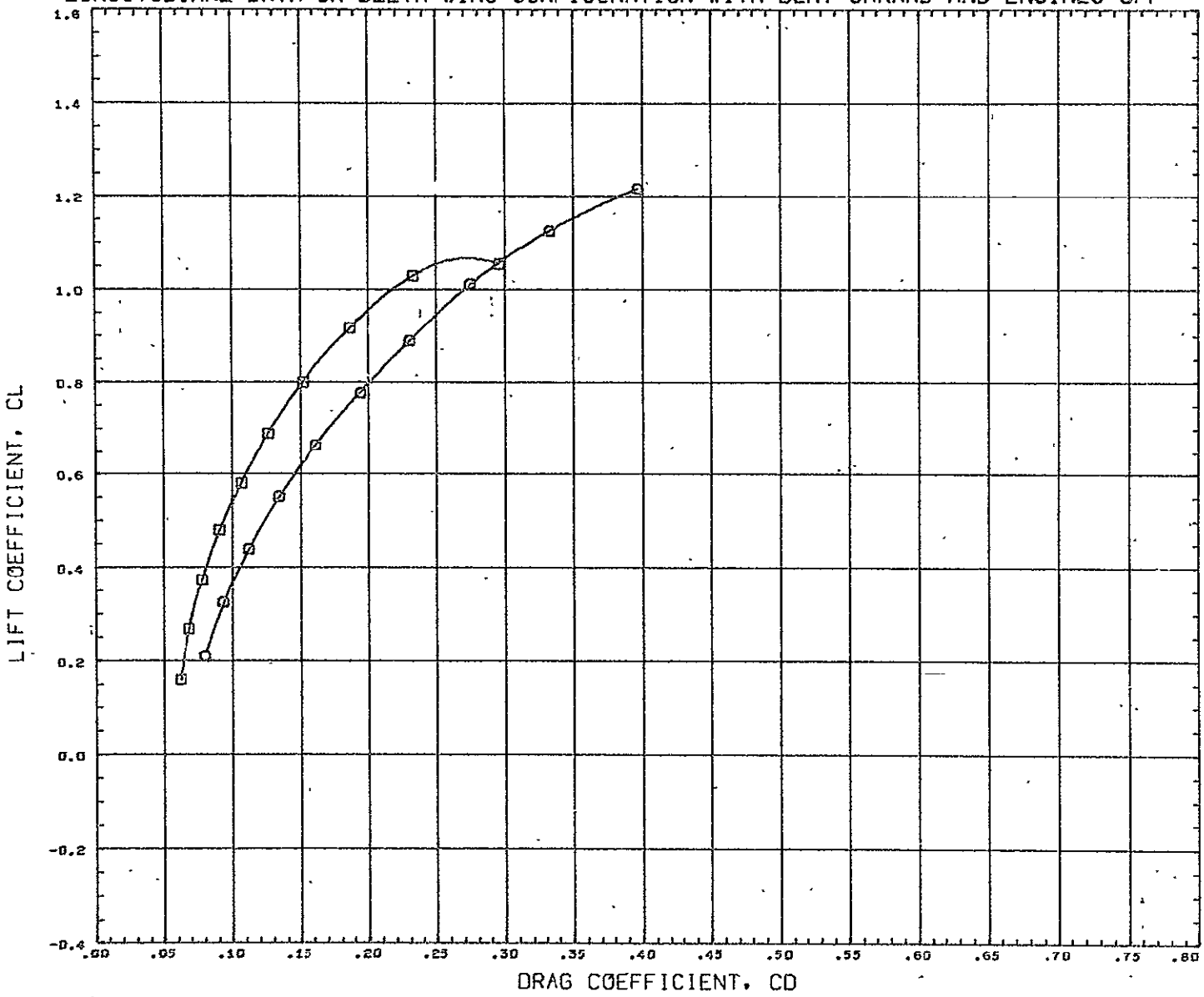
BETA	0.000	ELEVON	10.000
AILRON	0.000	RUDDER	0.000
CANARD	3.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	33.9090	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

MACH 0.259

LONGITUDINAL DATA ON DELTA WING CONFIGURATION WITH BENT CANARD AND ENGINES OFF



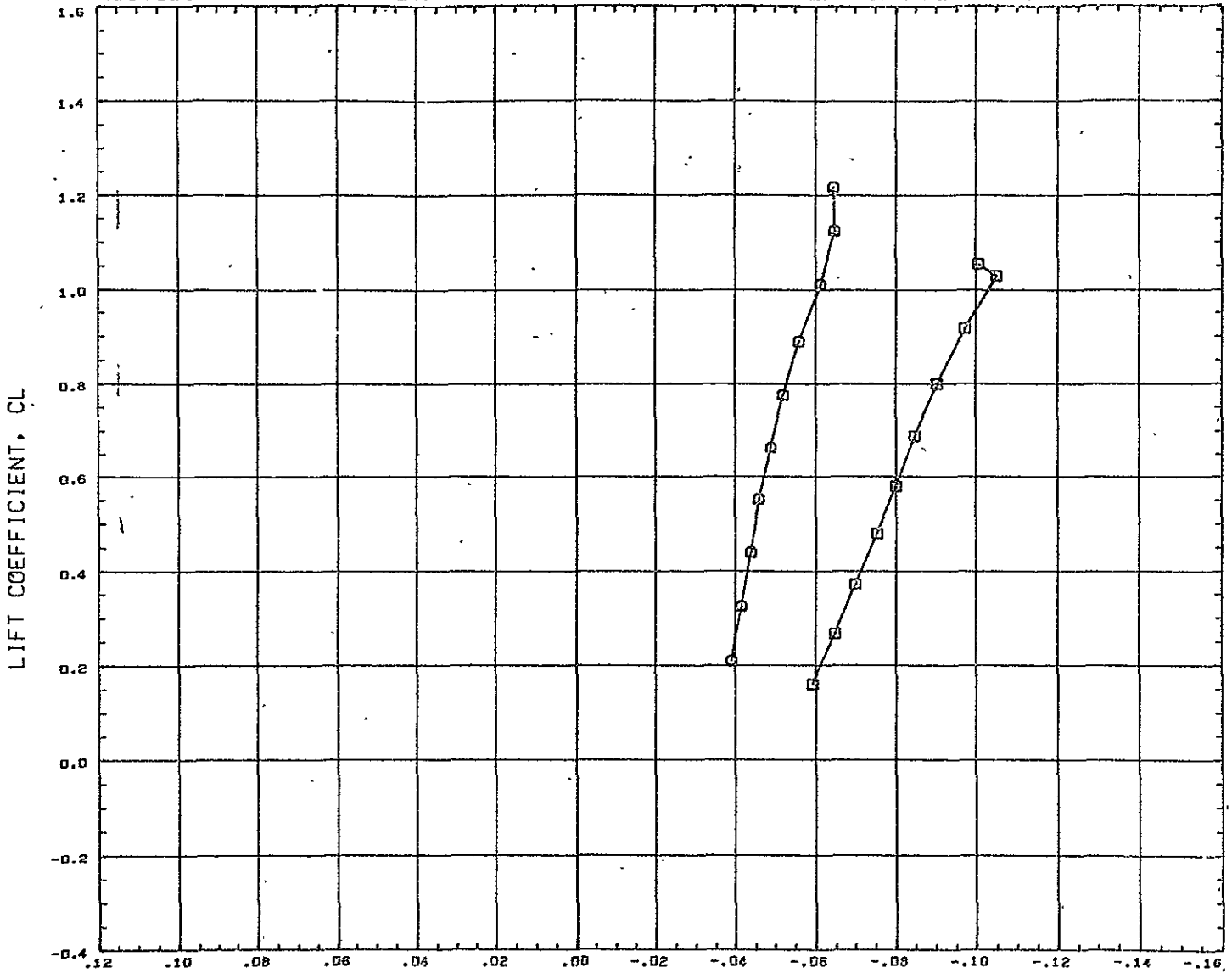
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC8107)	○	CVLSWT TEST 580-0 B7W3V1C3A
(RC8108)	□	CVLSWT TEST 580-0 B7W5V1

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVON	10.000
AILRON	0.000	RUDDER	0.000
CANARD -	3.000		

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	33.9090	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL DATA ON DELTA WING CONFIGURATION WITH BENT CANARD AND ENGINES OFF



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RC0107)	□	CVLSWT TEST 580-D B7W5V1C3A
(RC0108)	□	CVLSWT TEST 580-D B7W5V1

PARAMETRIC VALUES

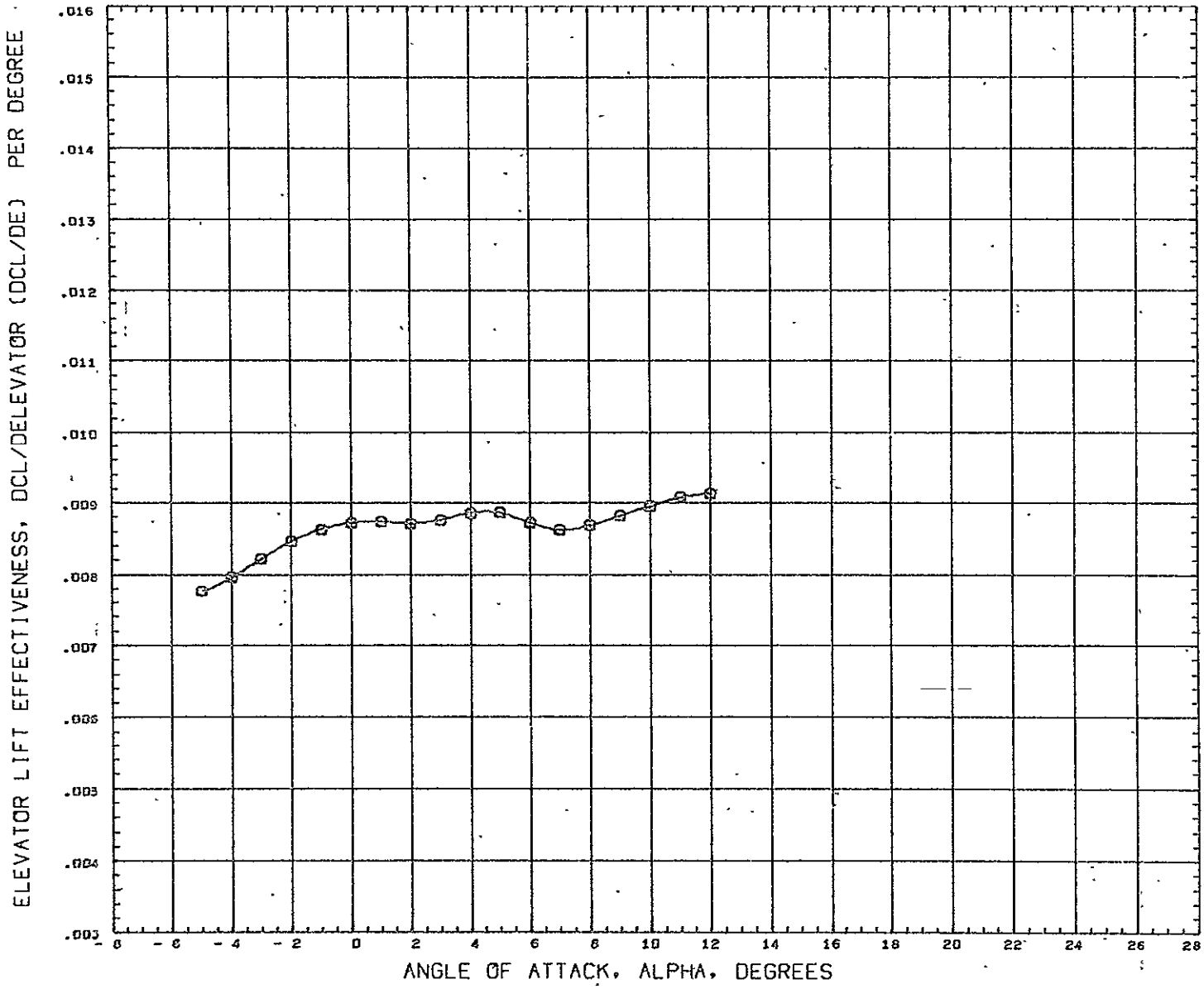
BETA	0.000	ELEVON	10.000
AILRON	0.000	RUDDER	0.000
CANARD -	3.000		

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	33.9090	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

MACH 0.259

LONGITUDINAL CONTROL DERIVATIVES WITH ENGINES OFF



SYMBOL	MACH
O	0.259

PARAMETRIC VALUES

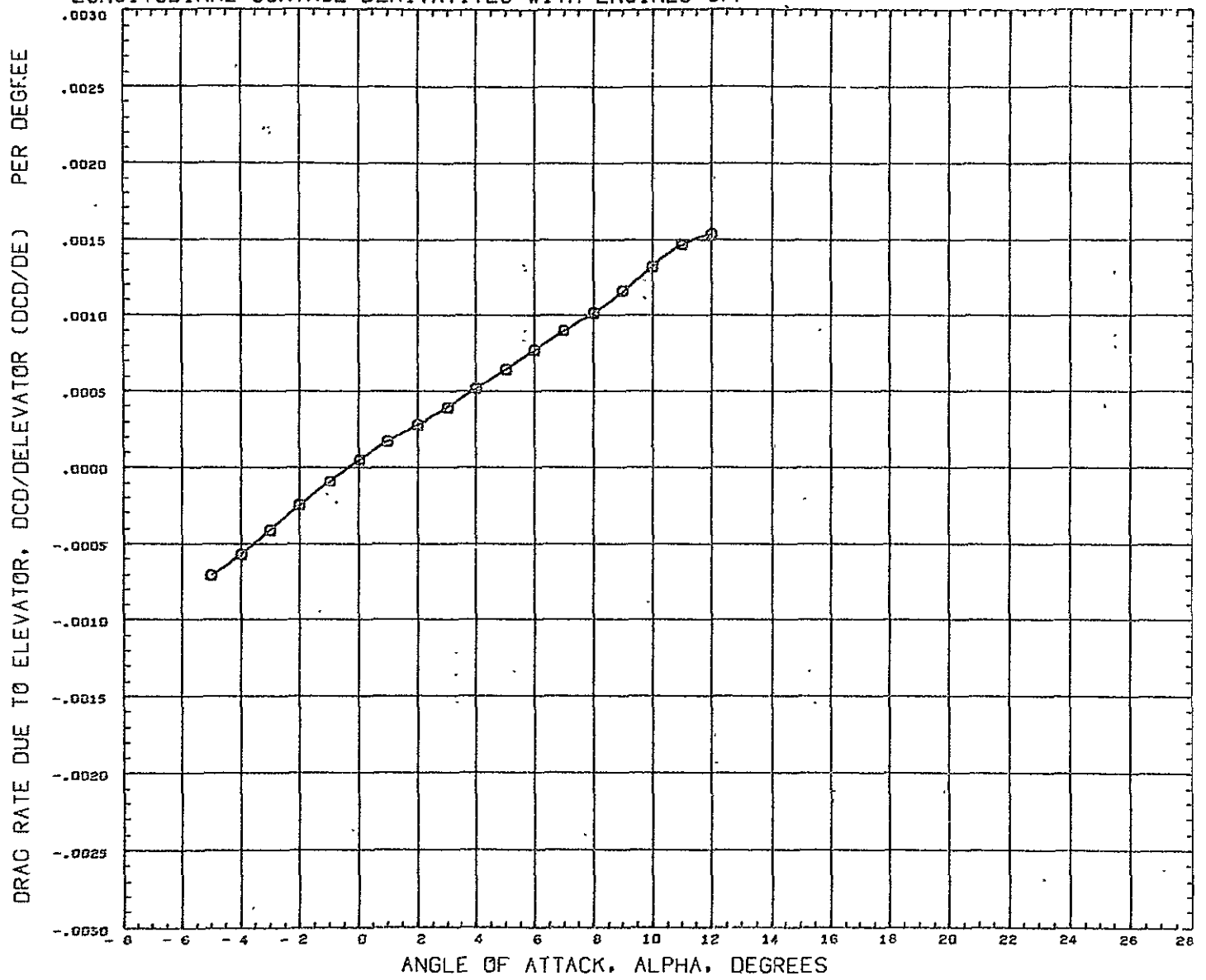
BETA	0.000	ELEVTR	- 10.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000		

DATA HIST. CODE #F

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL CONTROL DERIVATIVES WITH ENGINES OFF

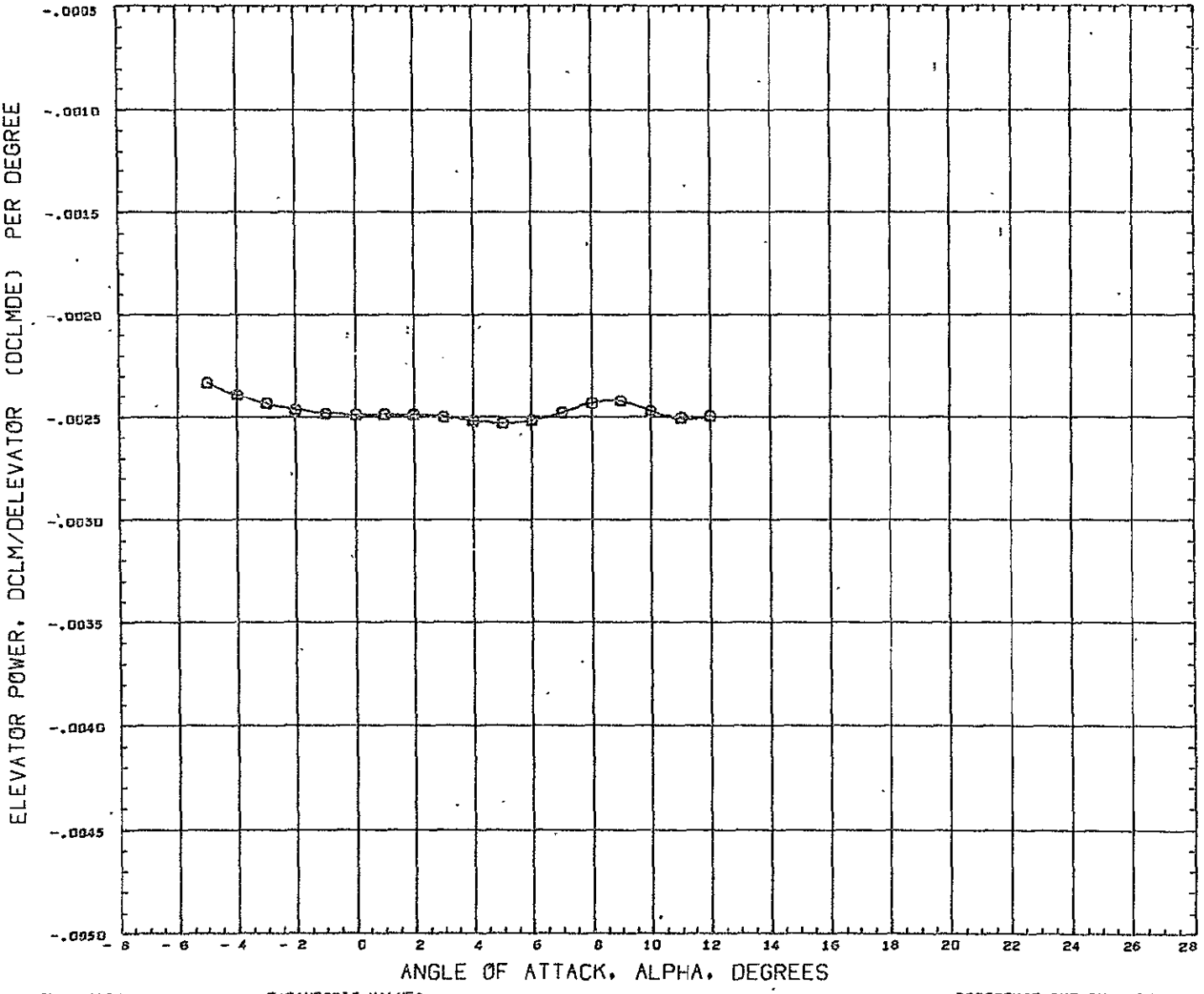


SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	ELEVTR	- 10.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000		

DATA HIST. CODE *F

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LØNGITUDINAL CØNTRØL DERIVATIVES WITH ENGINES ØFF

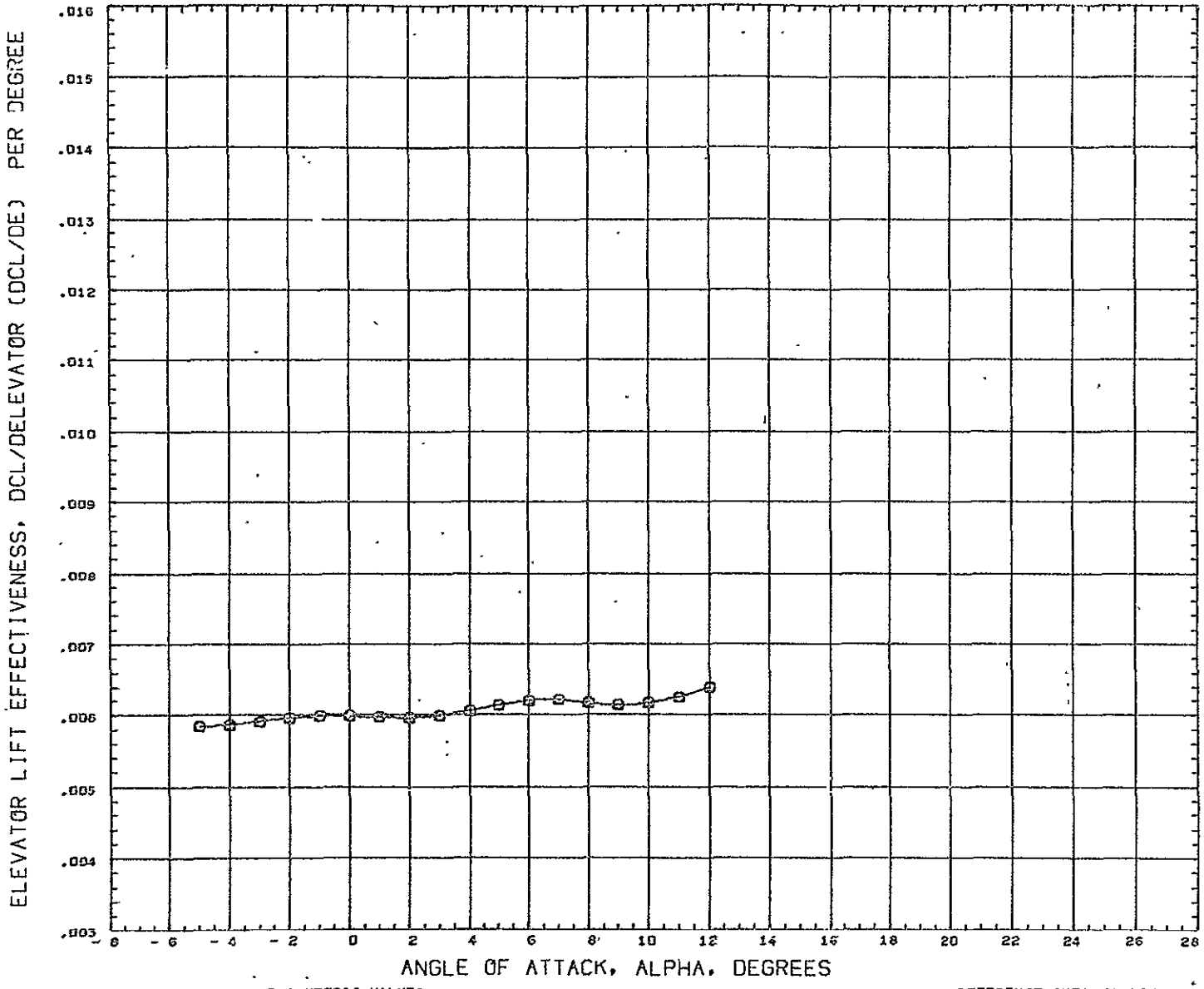


SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA .	0.000	ELEVTR	- 10.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000		

DATA HIST. CODE #F

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL CONTROL DERIVATIVES WITH ENGINES OFF

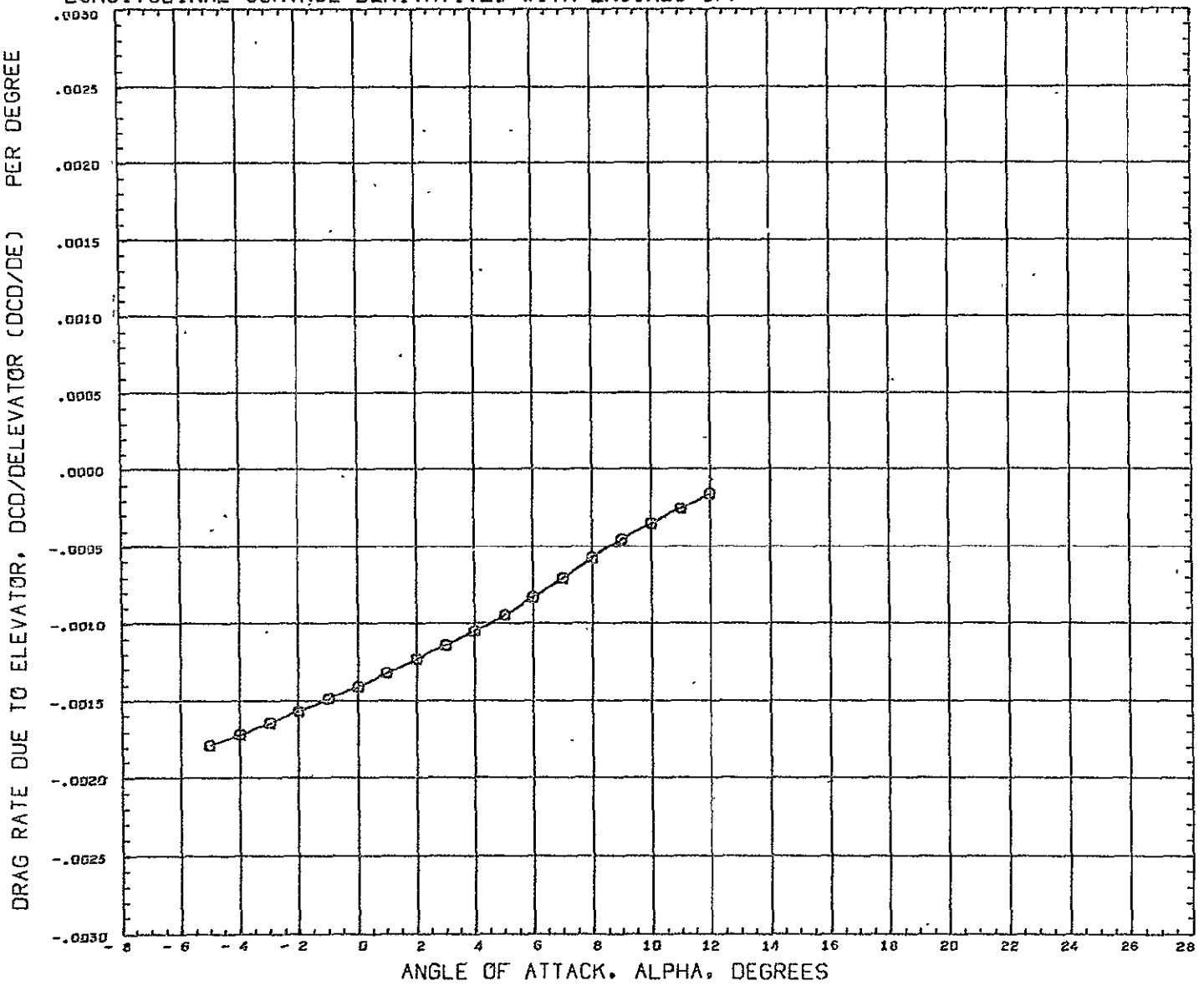


SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	ELEVTR	- 30.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000		

DATA HIST. CODE *F

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL CONTROL DERIVATIVES WITH ENGINES OFF



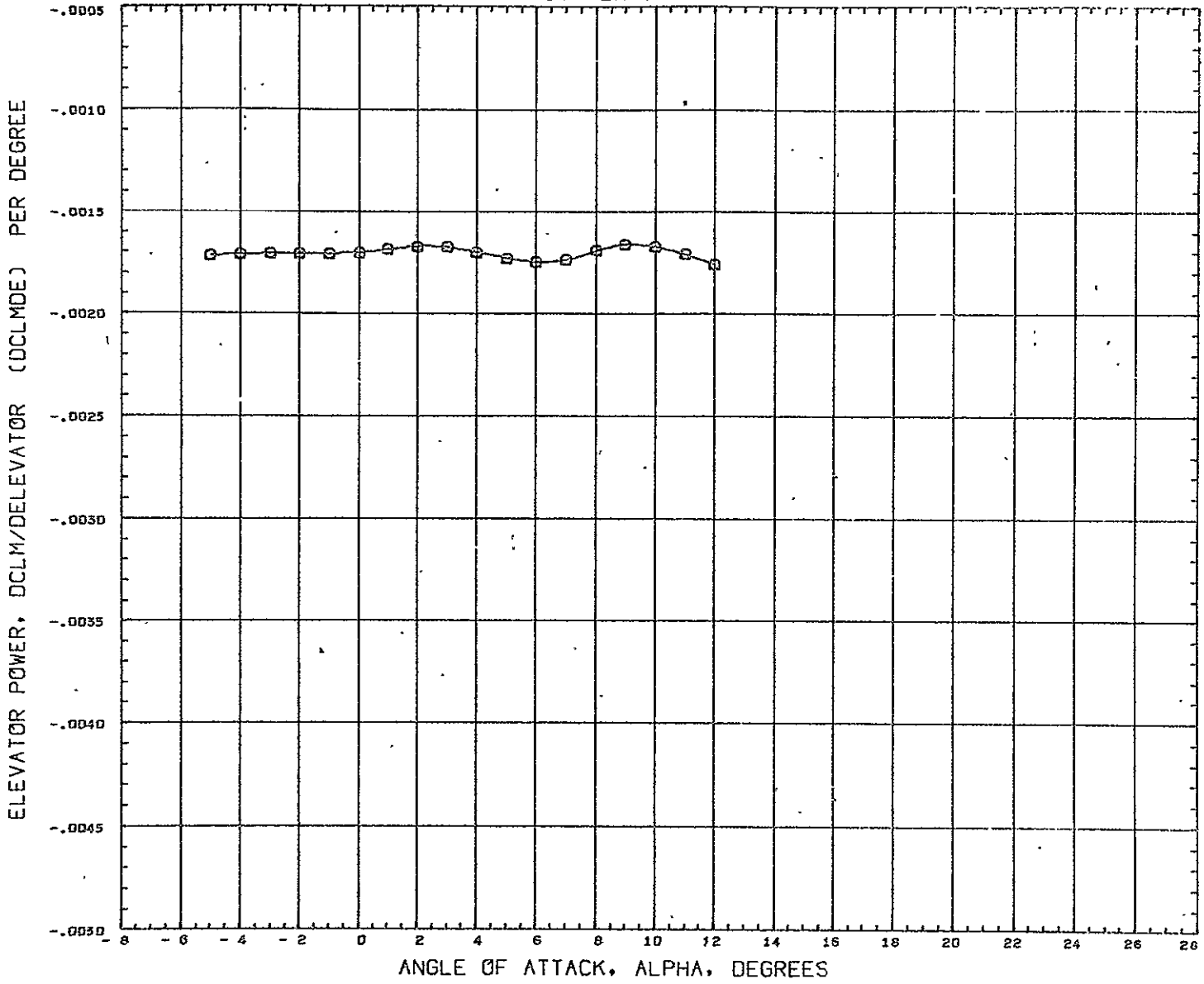
SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	ELEVTR	- 30.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000		

DATA HIST. CODE #F

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL CONTROL DERIVATIVES WITH ENGINES OFF



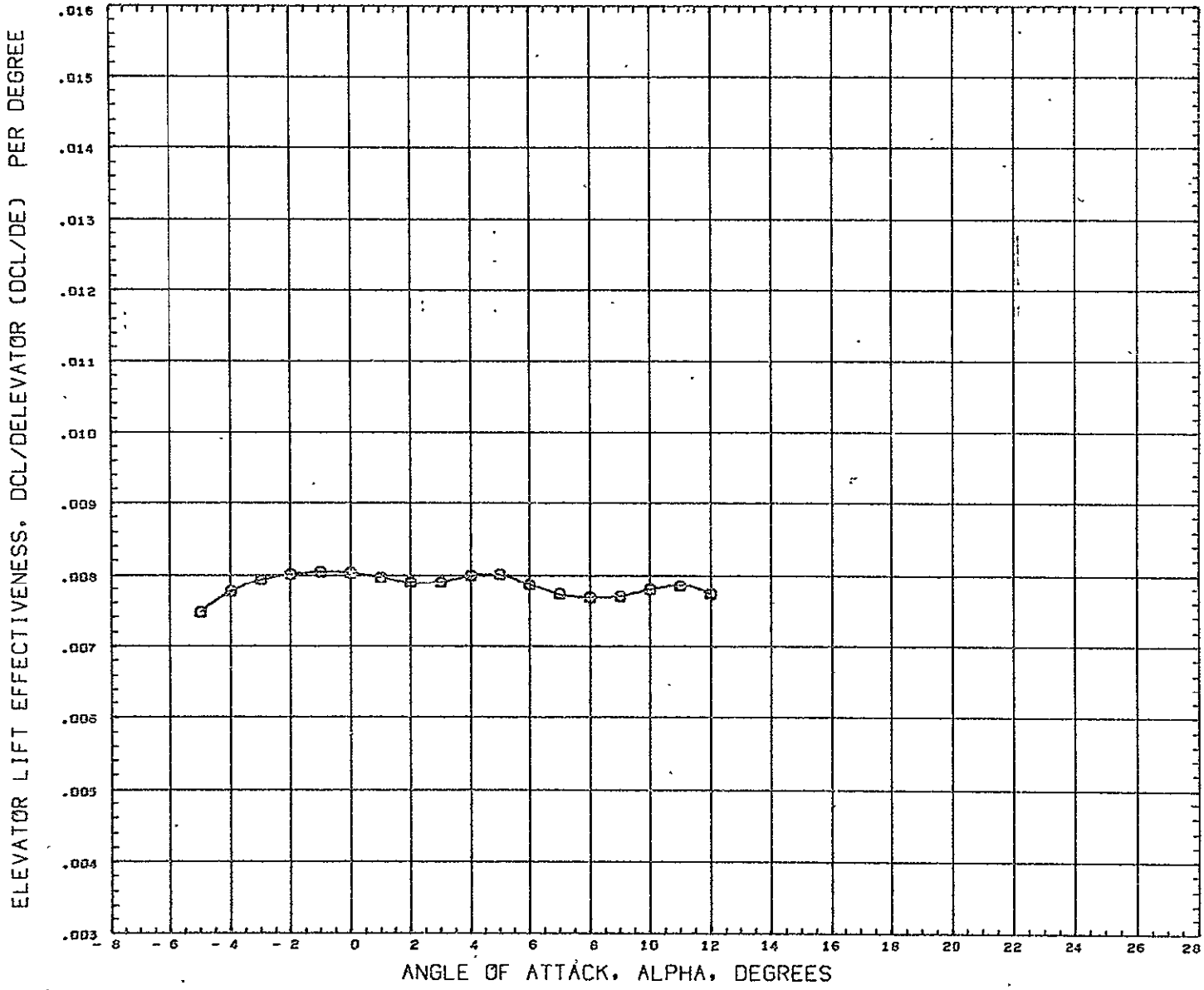
SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	ELEVTR	- 30.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000		

DATA HIST. CODE #F

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL CONTROL DERIVATIVES WITH HI-BYPASS RATIO ENGINES



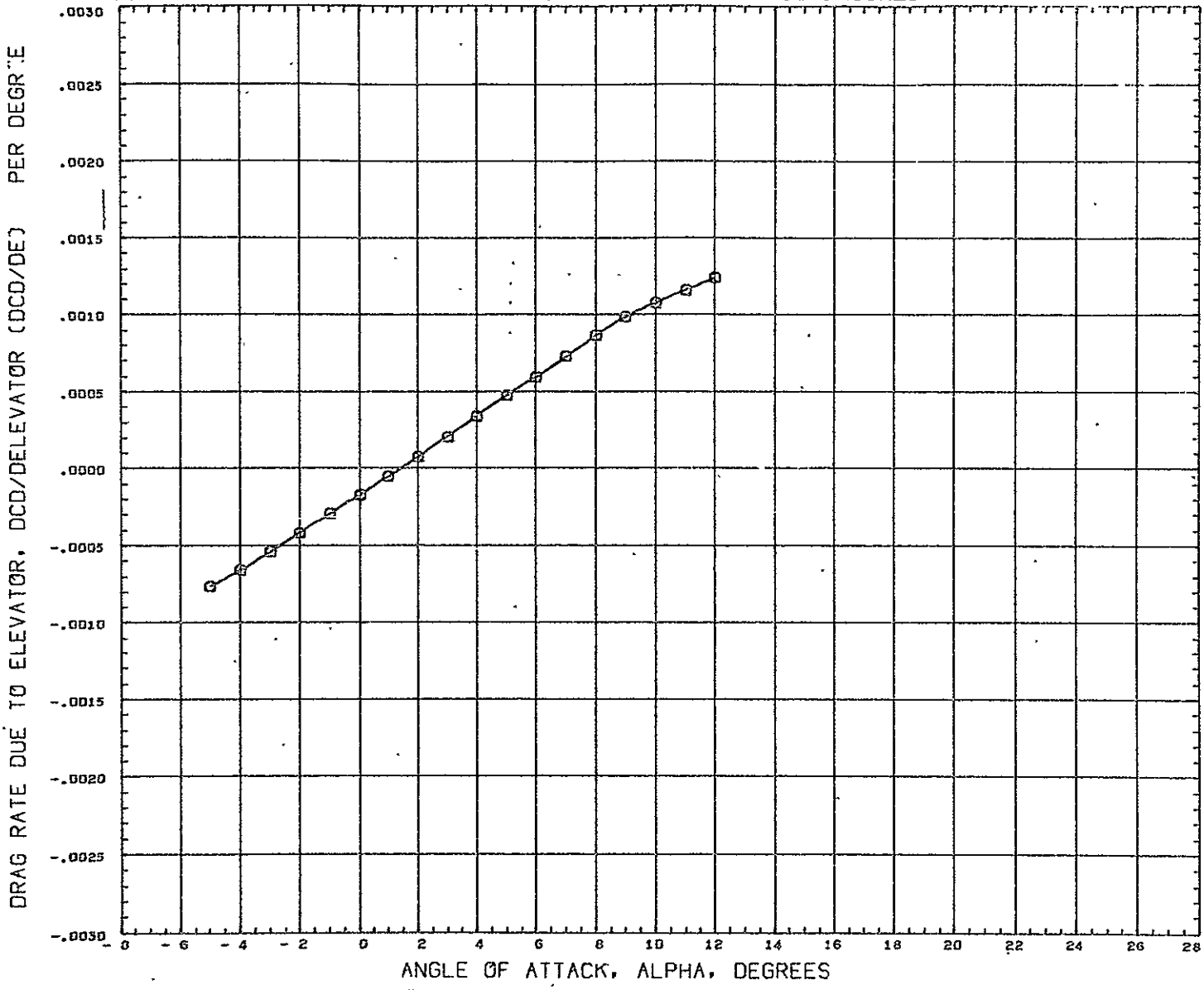
SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	ELEVTR	- 10.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	26.000

DATA HIST. CODE #F

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL CONTROL DERIVATIVES WITH HI-BYPASS RATIO ENGINES



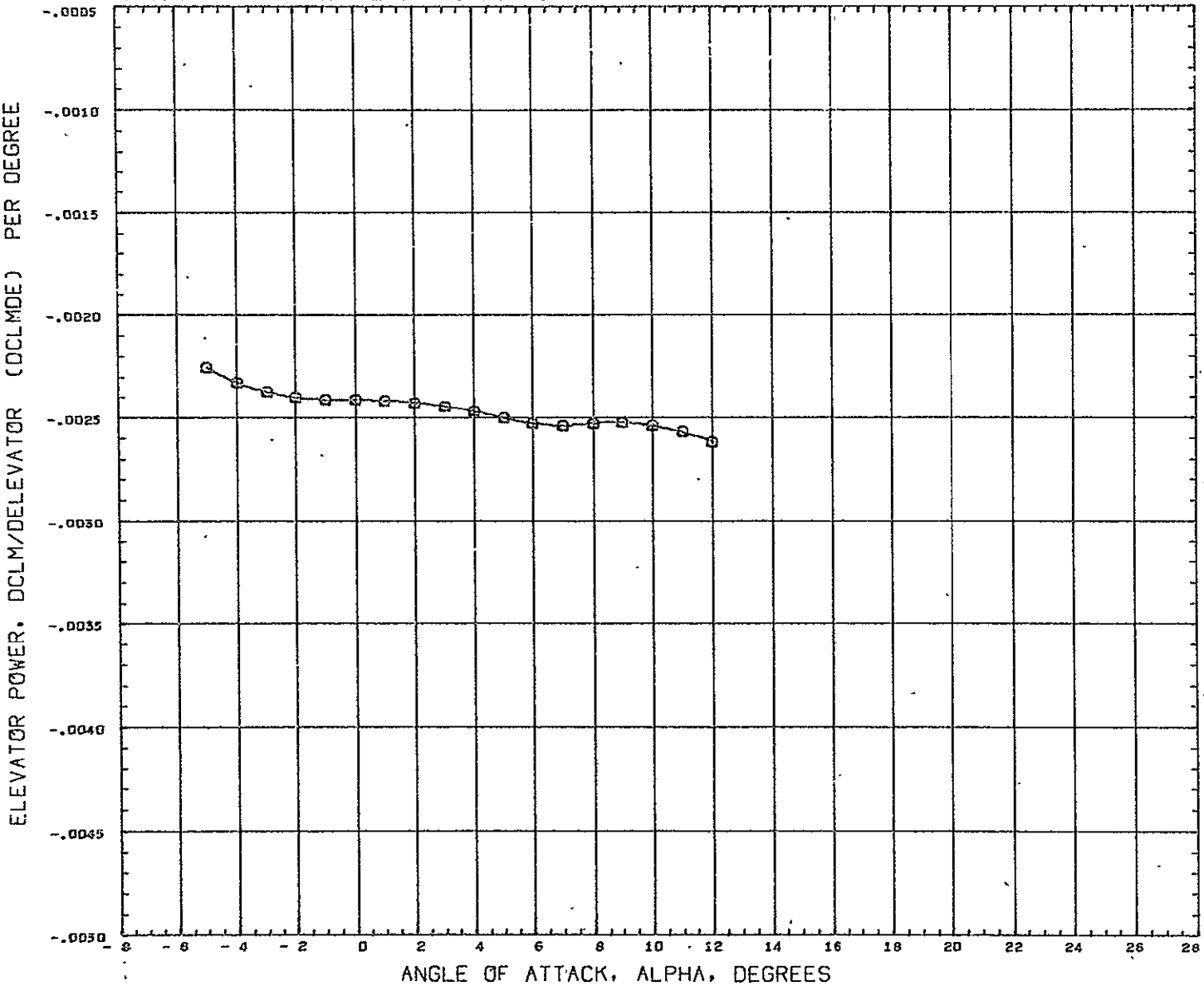
SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	ELEVTR	- 10.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	26.000

DATA HIST. CODE *F

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL CONTROL DERIVATIVES WITH HI-BYPASS RATIO ENGINES

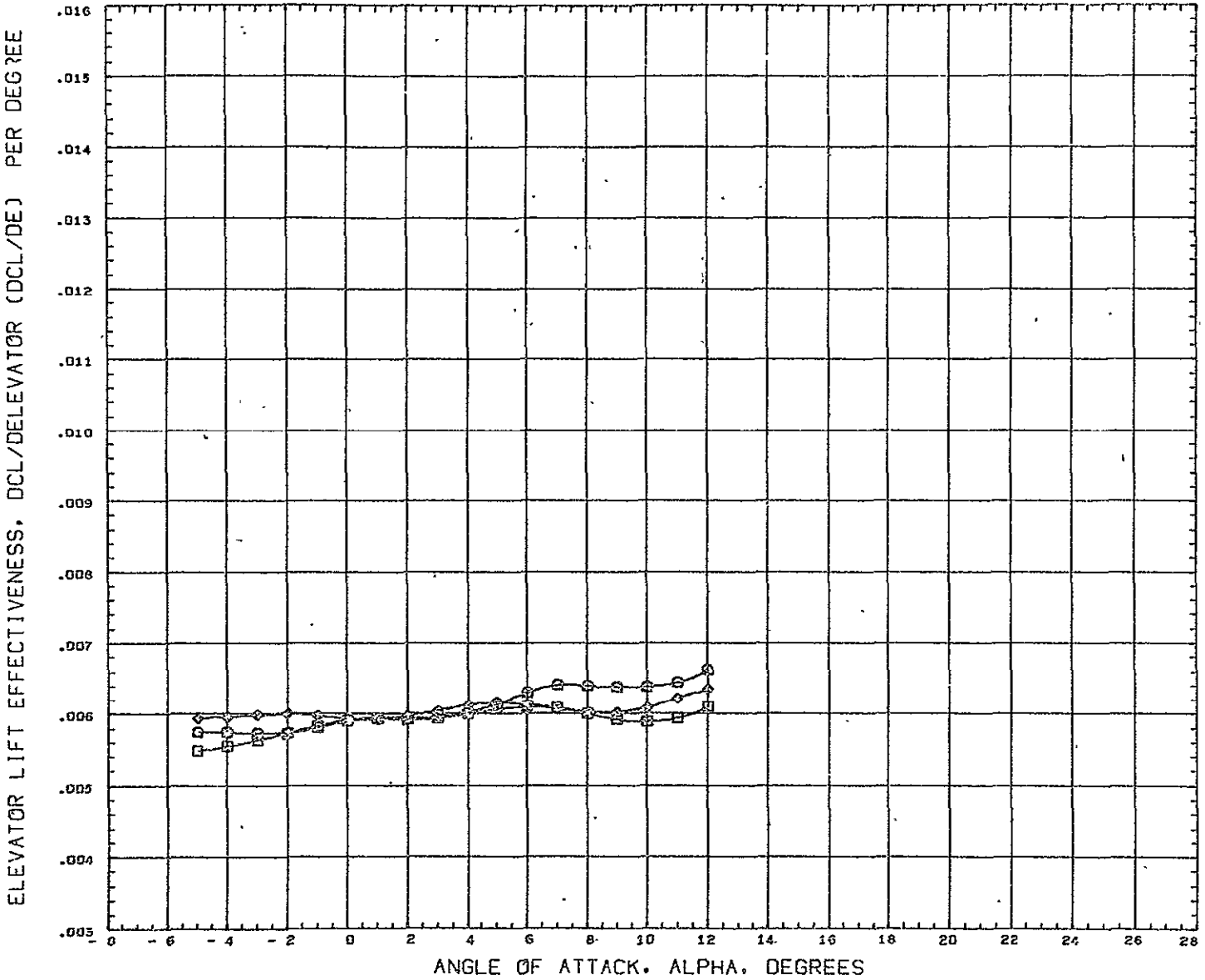


SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	ELEVTP	- 10.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	26.000

DATA HIST. CODE *F

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	-

LONGITUDINAL CONTROL DERIVATIVES WITH HI-BYPASS RATIO ENGINES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(EC8057)	○	CVLSWT TEST 580-0 B9W3AT4V4E13
(EC8037)	□	CVLSWT TEST 580-0 B9W3AT4V4E26
(EC8042)	◇	CVLSWT TEST 580-0 B9W3AT4V4E28

PARAMETRIC VALUES

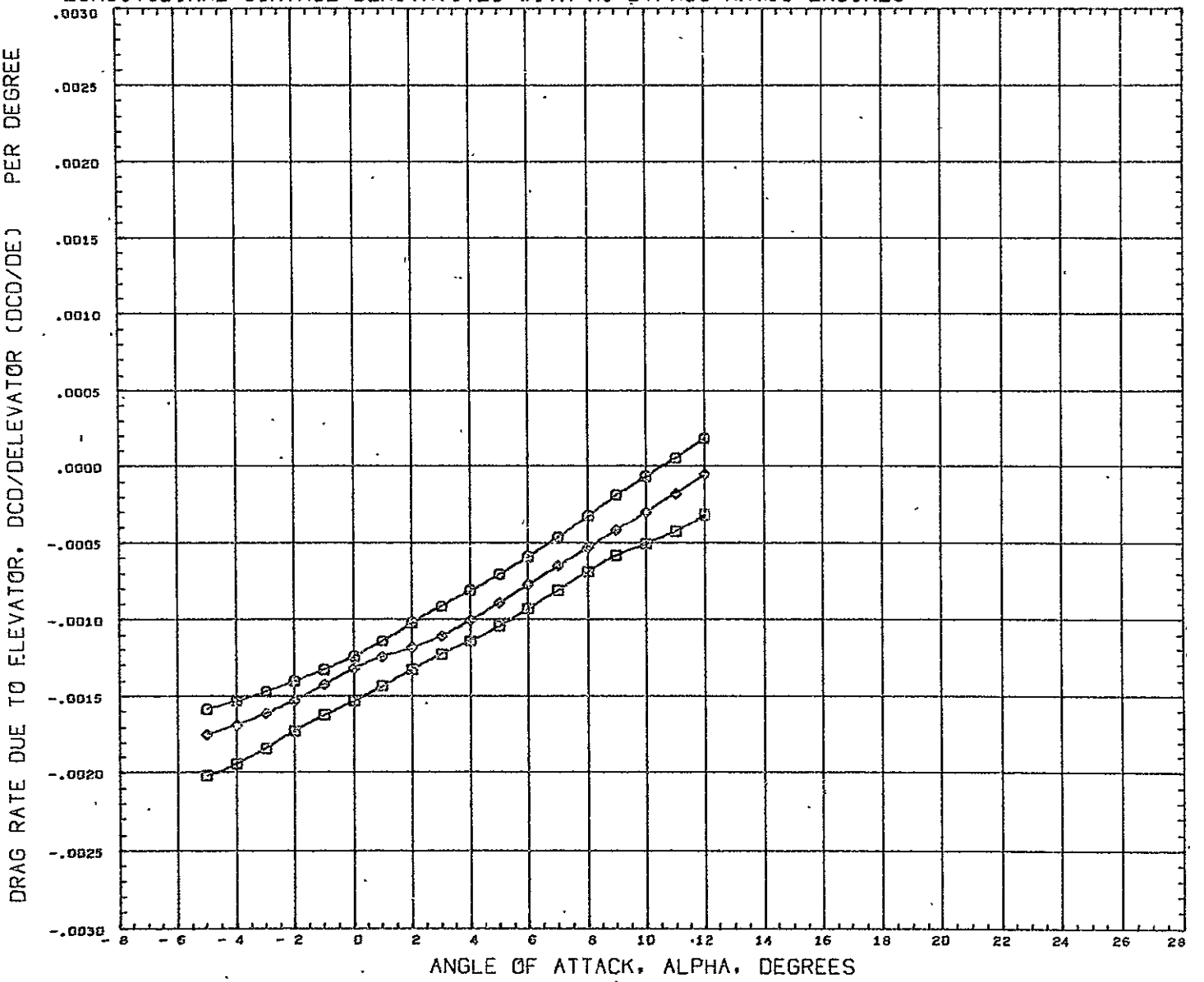
BETA	0.000	ELEVTR	-30.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

MACH 0.259

LONGITUDINAL CONTROL DERIVATIVES WITH HI-BYPASS RATIO ENGINES



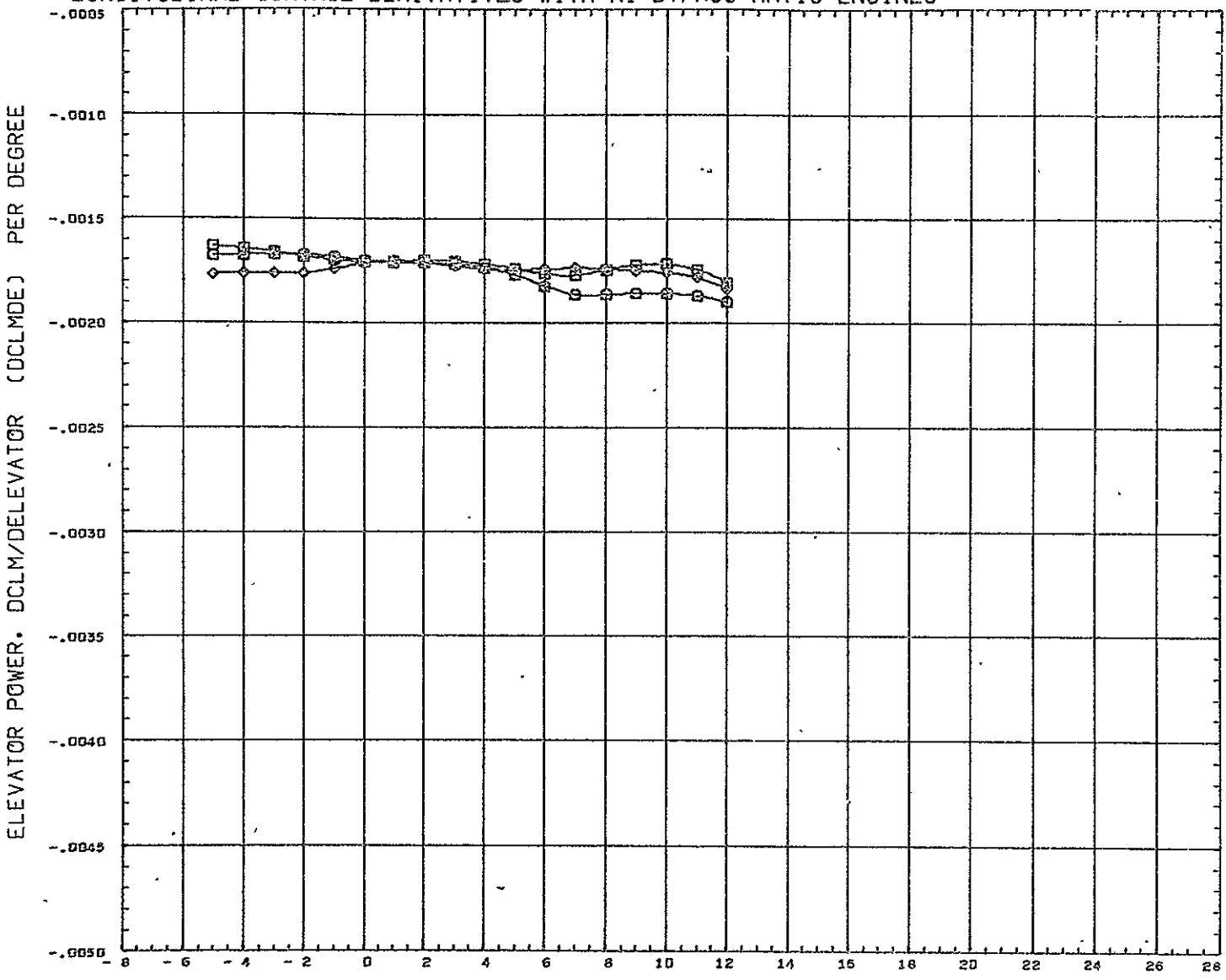
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(EC8057)	○	CVLSWT TEST 580-0 B9W3AT4V4E13
(EC8037)	□	CVLSWT TEST 580-0 B9W3AT4V4E26
(EC8042)	◇	CVLSWT TEST 580-0 B9W3AT4V4E28

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	- 30.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL CONTROL DERIVATIVES WITH HI-BYPASS RATIO ENGINES



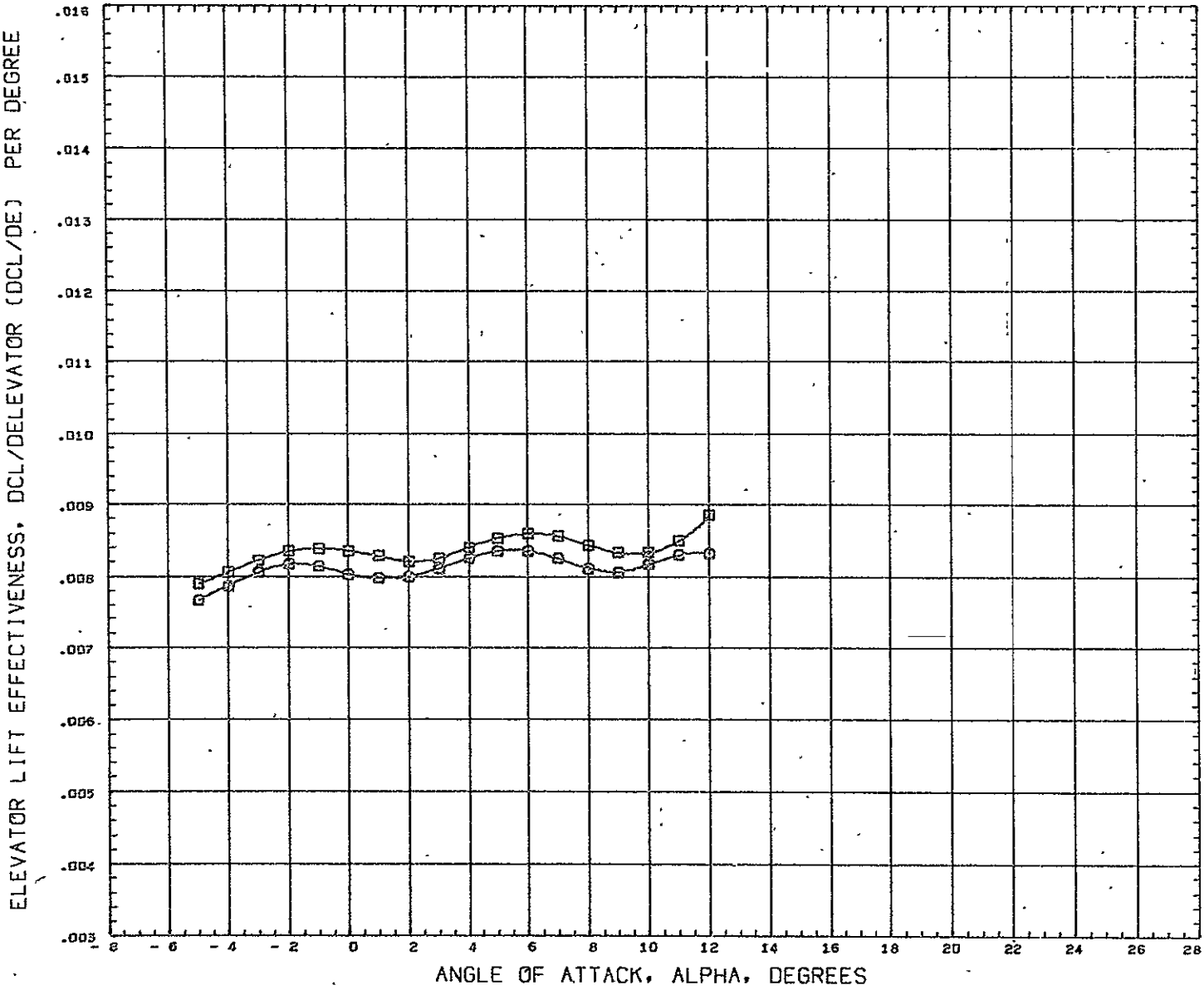
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(EC8057)	○	CVLSWT TEST 580-0 B9W3AT4V4E13
(EC8037)	□	CVLSWT TEST 580-0 B9W3AT4V4E26
(EC8042)	◇	CVLSWT TEST 580-0 B9W3AT4V4E28

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	-30.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL CONTROL DERIVATIVES WITH LOW-BYPASS RATIO ENGINES



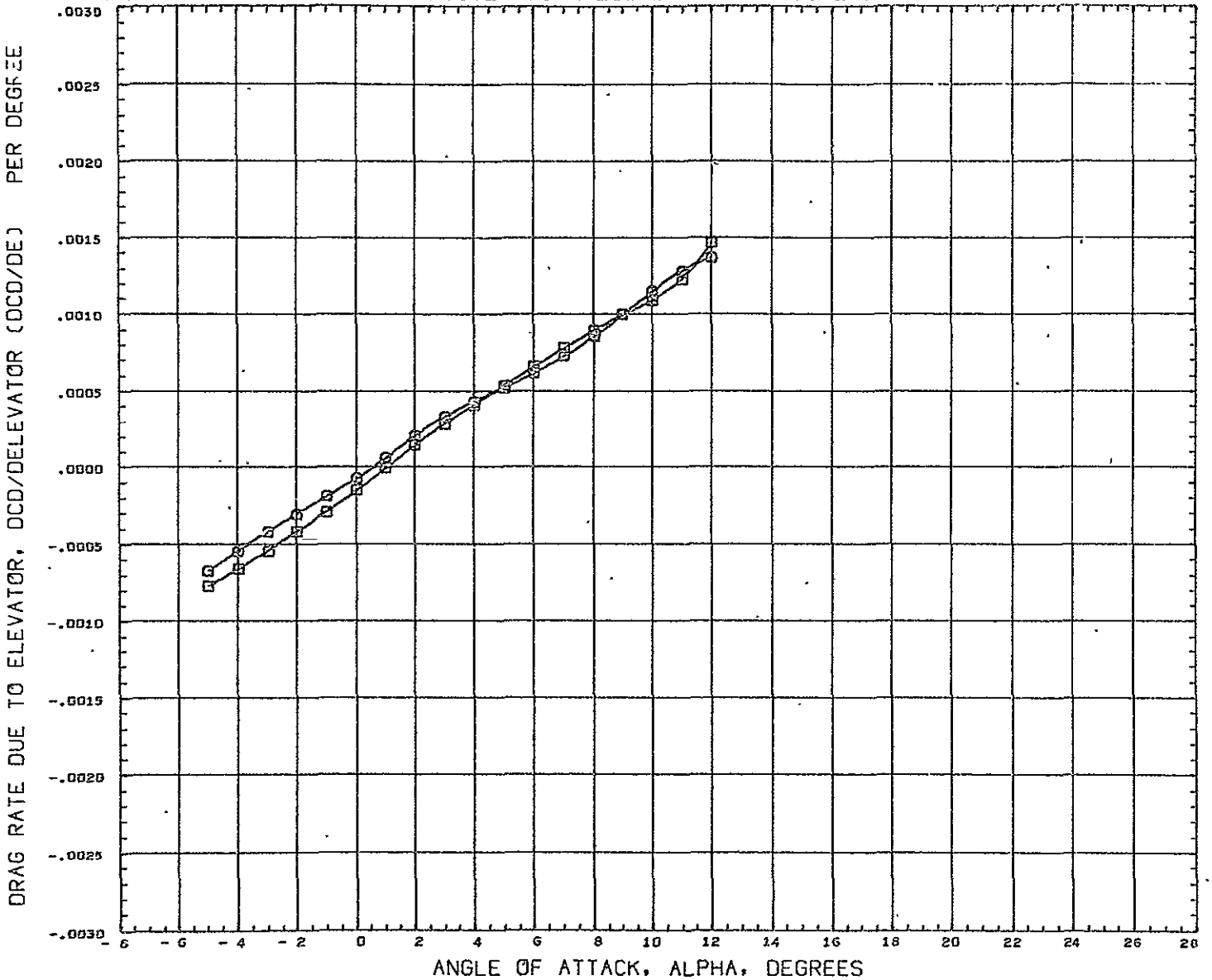
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(EC8061)	○	CVLSWT TEST 580-0 B9W3AT4V4K2E18
(EC8072)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E21

MACH 0.259

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	- 10.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL CONTROL DERIVATIVES WITH LOW-BYPASS RATIO ENGINES



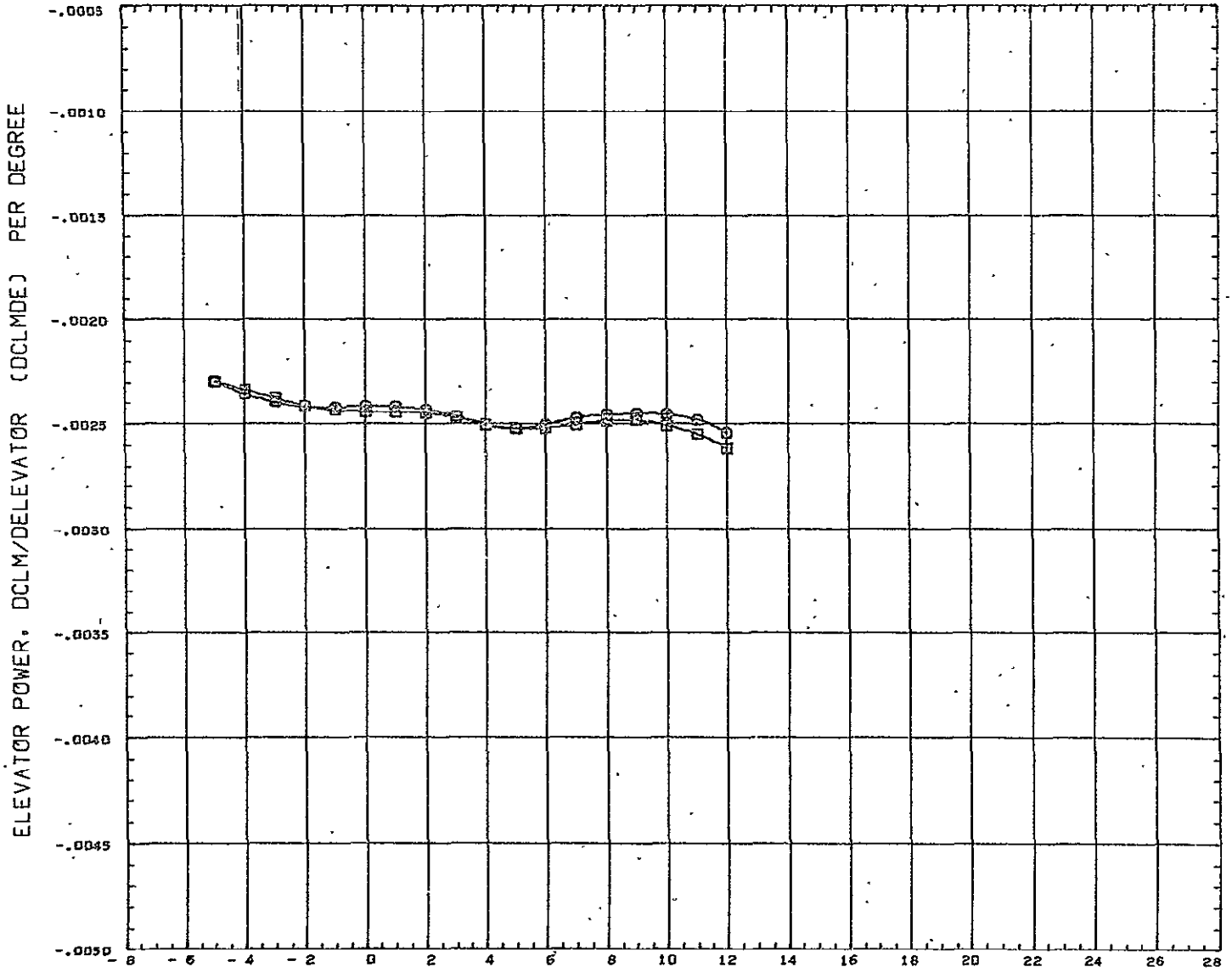
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(EC8061)	○	CVLSWT TEST 580-0 B9W3AT4V4K2E18
(EC8072)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E21

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	- 10.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	18.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

LONGITUDINAL CONTROL DERIVATIVES WITH LOW-BYPASS RATIO ENGINES



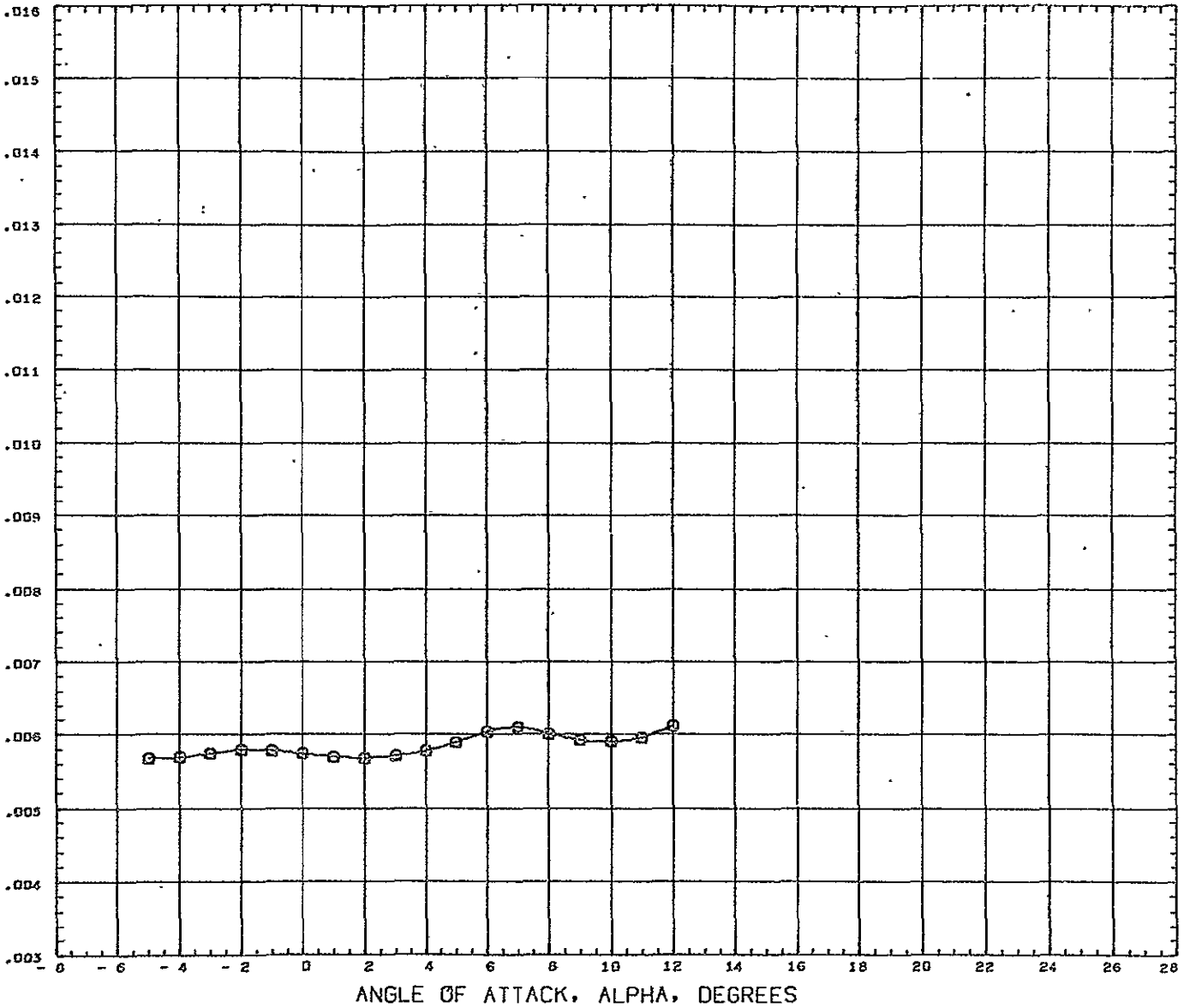
DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(EC8061)	○	CVLSWT TEST 580-0 B9W3AT4V4K2E18
(EC8072)	□	CVLSWT TEST 580-0 B9W3AT4V4K2E21

PARAMETRIC VALUES			
BETA	0.000	ELEVTR	-10.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	10.000

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

MACH 0.259

LONGITUDINAL CONTROL DERIVATIVES WITH LOW-BYPASS RATIO ENGINES

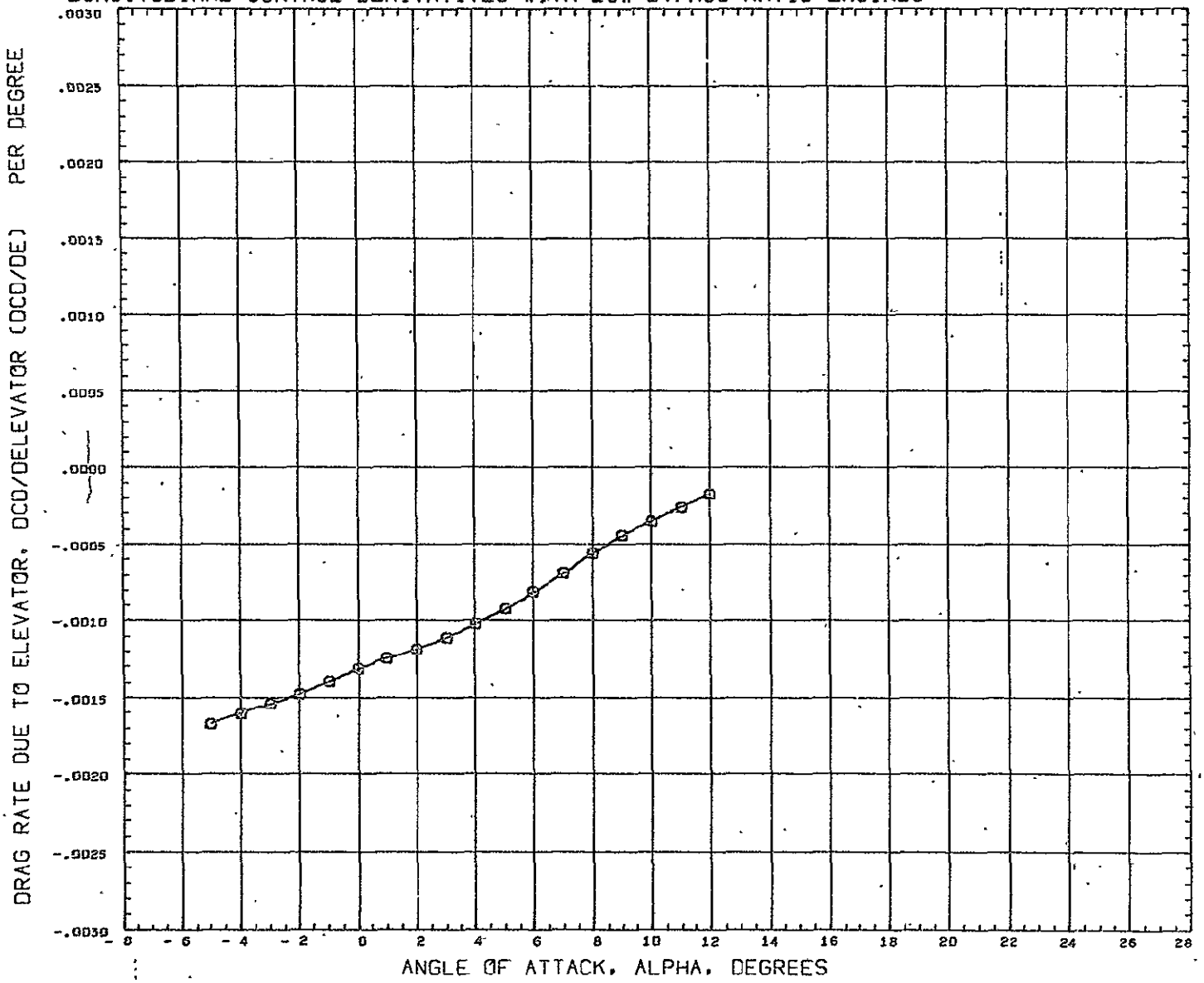


SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	ELEVTR	- 30.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	18.000

DATA HIST. CODE #F

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL CONTROL DERIVATIVES WITH LOW-BYPASS RATIO ENGINES

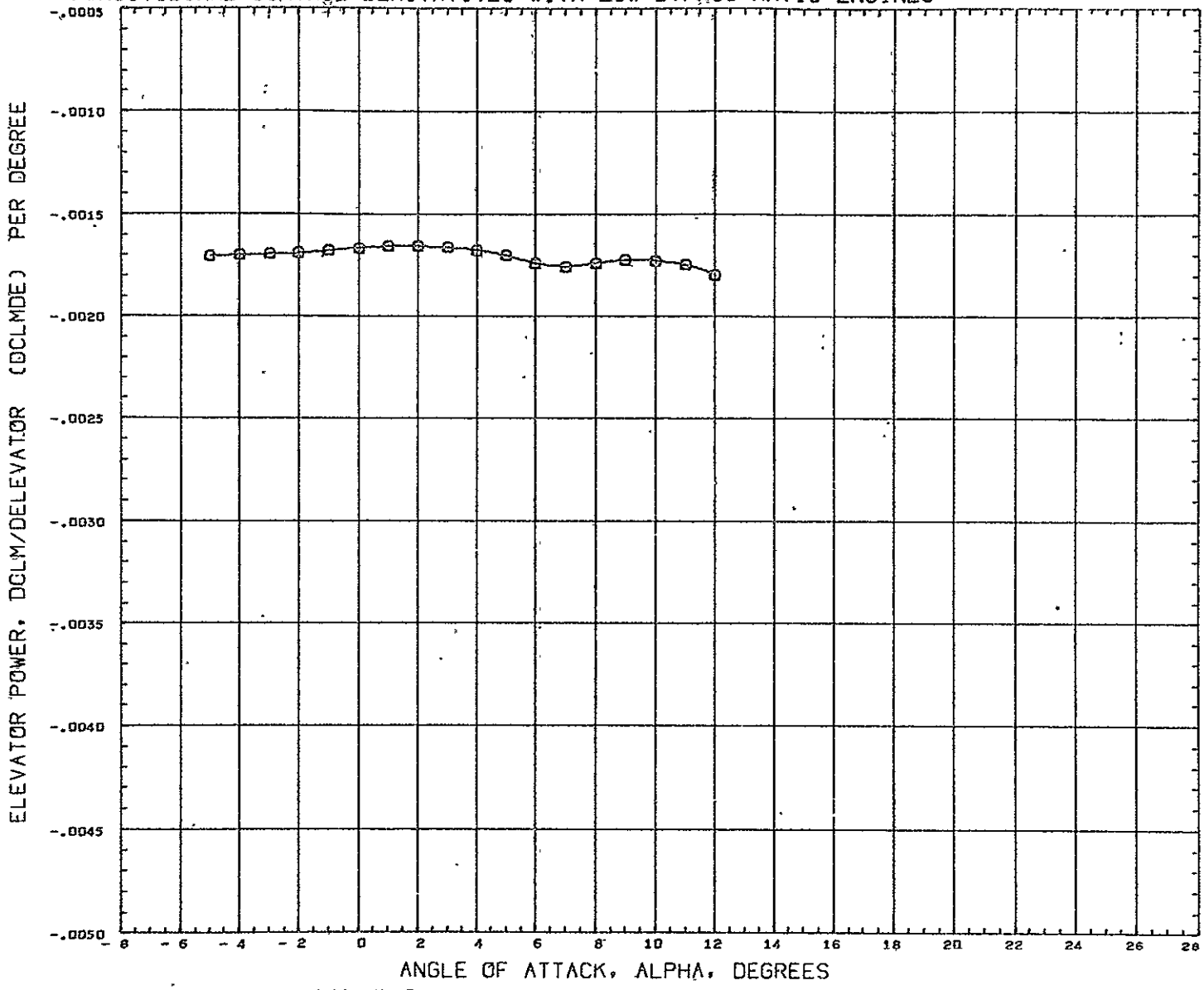


SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	ELEVTR	- 30.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	18.000

DATA HIST. CODE #P

REFERENCE INFORMATION		
REFS	316.2304	SQ·IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL CONTROL DERIVATIVES WITH LOW-BYPASS RATIO ENGINES



SYMBOL	MACH
O	0.259

PARAMETRIC VALUES

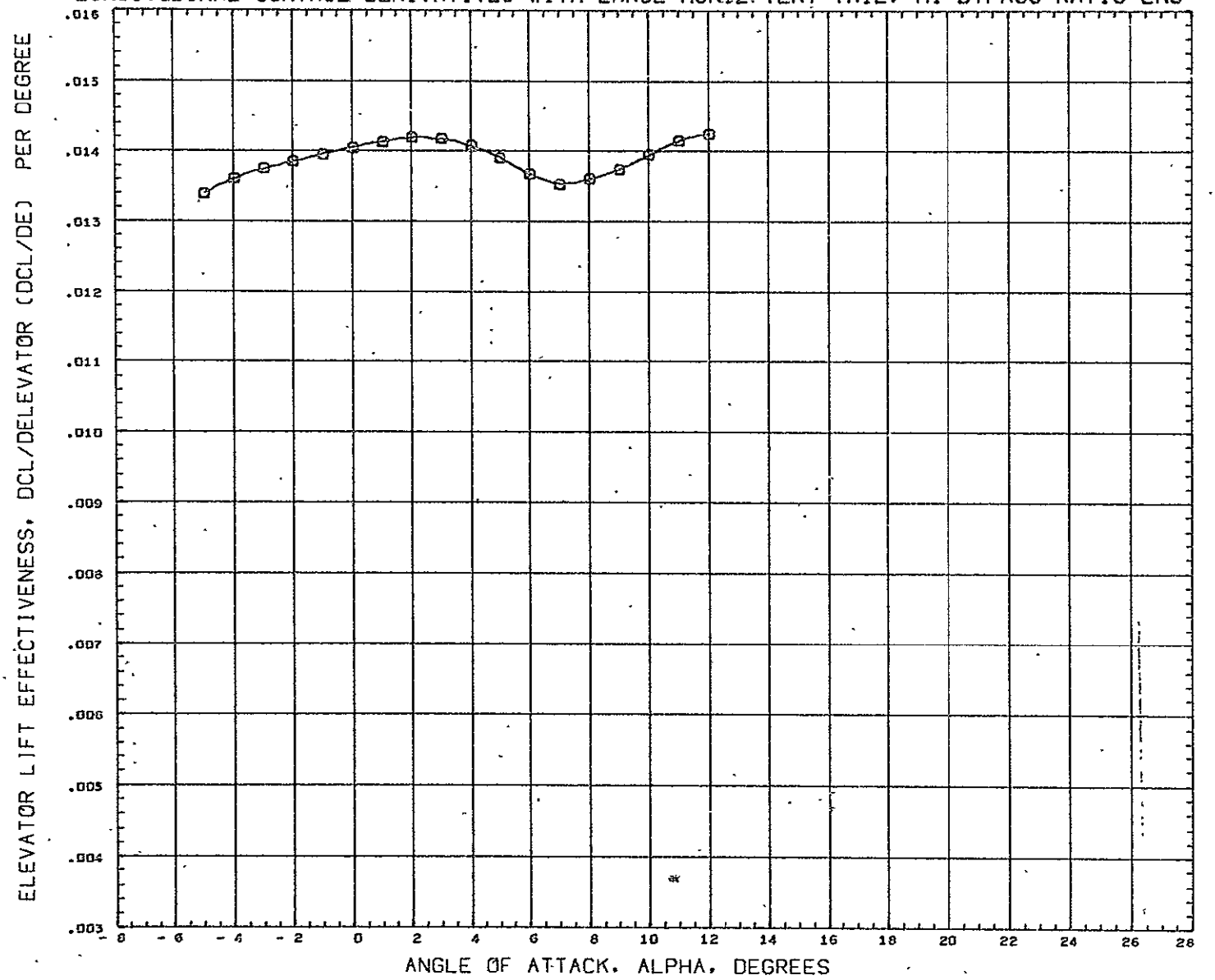
BETA	0.000	ELEVTR	-30.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	18.000

DATA HIST. CODE #P

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL CONTROL DERIVATIVES WITH LARGE HORIZ-VERT TAIL, HI-BYPASS RATIO ENG

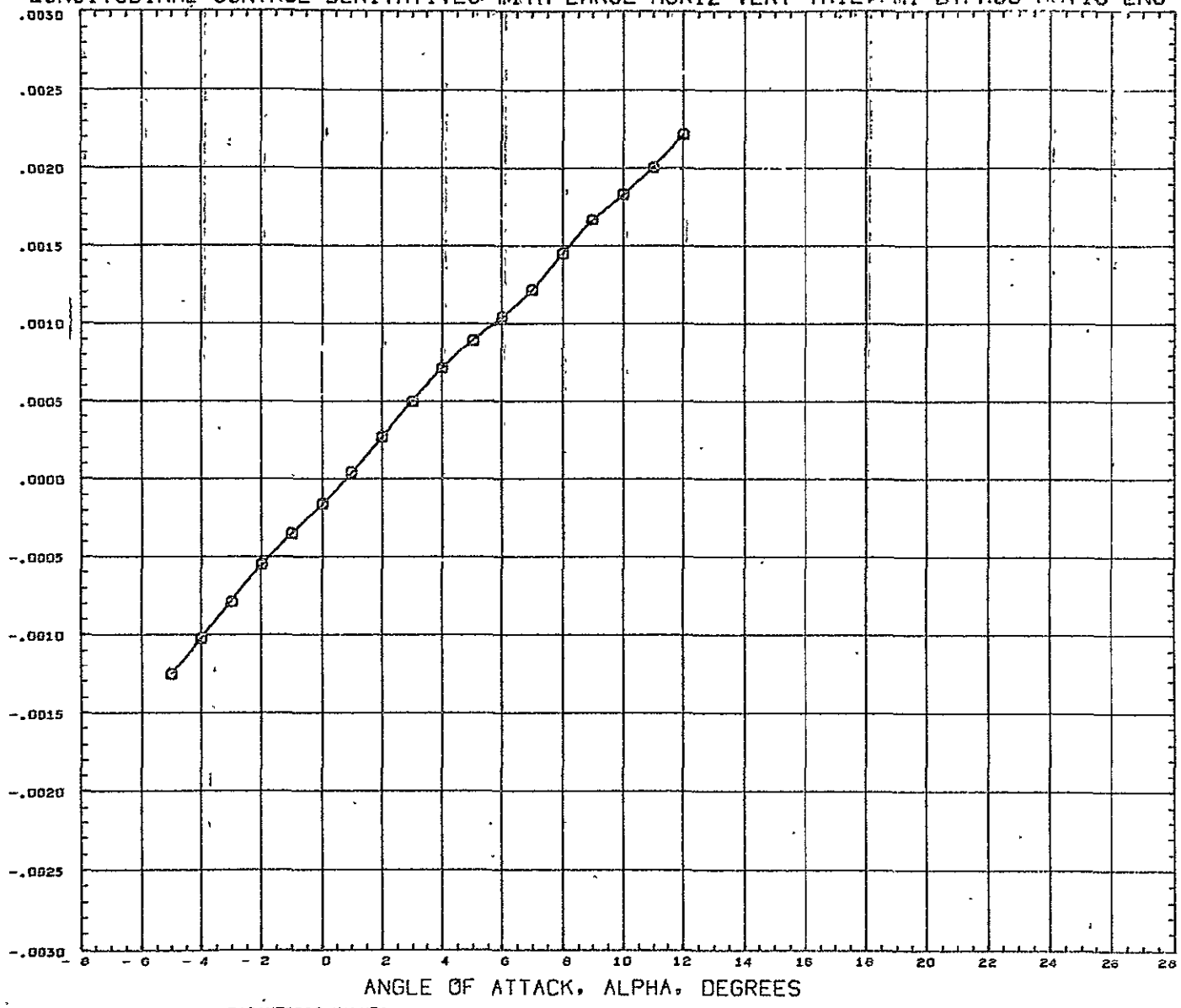


SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	ELEVTR	- 10.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	28.000

DATA HIST. CODE *F

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL CONTROL DERIVATIVES WITH LARGE HORIZ-VERT TAIL, HI-BYPASS RATIO ENG



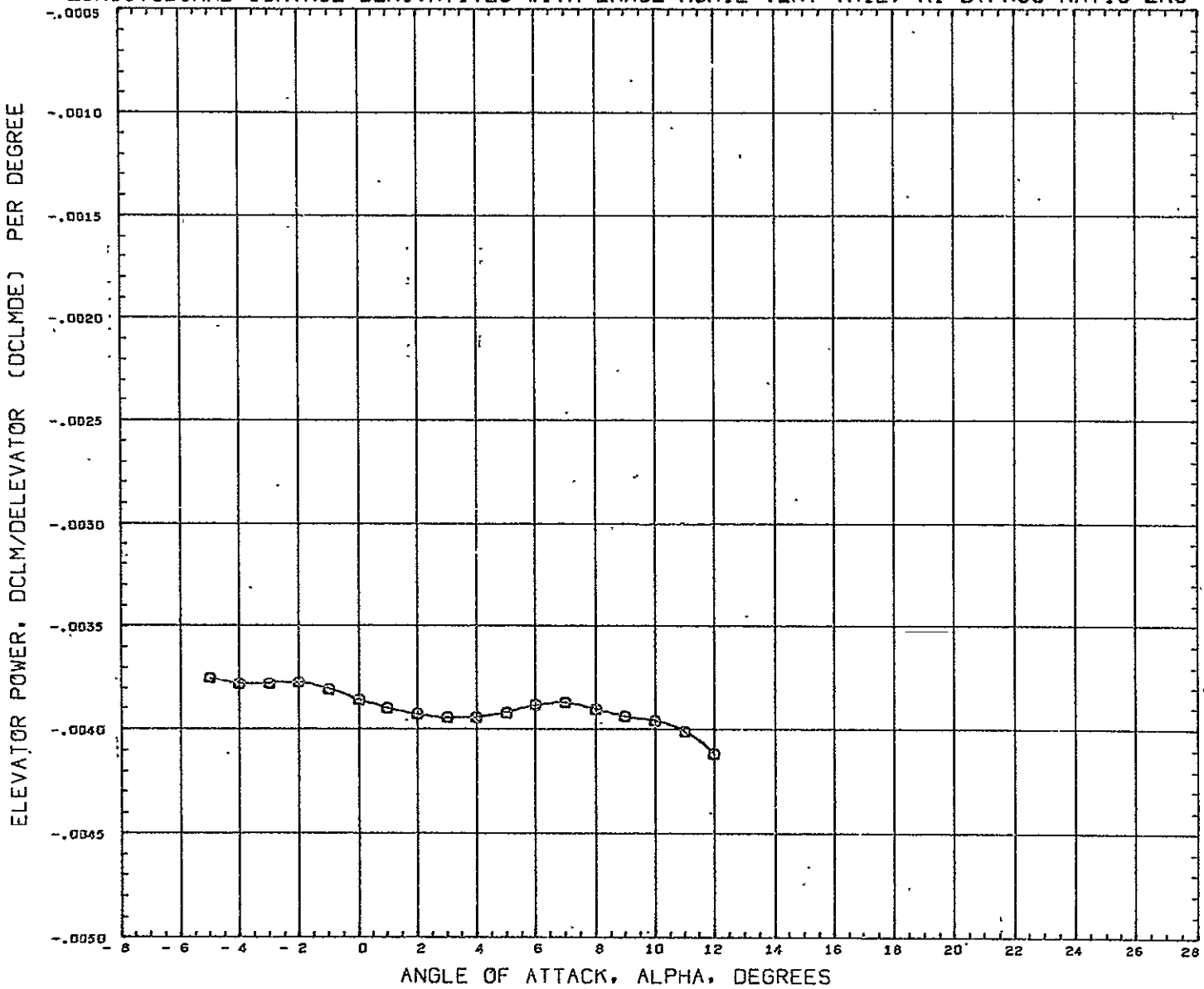
SYMBOL	MACH					
O	0.259	PARAMETRIC VALUES				
		BETA	0.000	ELEVTR	- 10.000	
		RUDDER	0.000	FLAPS	0.000	
		SPOILR	0.000	ENGINE	26.000	

DATA HIST. CODE *F

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL CONTROL DERIVATIVES WITH LARGE HORIZ-VERT TAIL, HI-BYPASS RATIO ENG



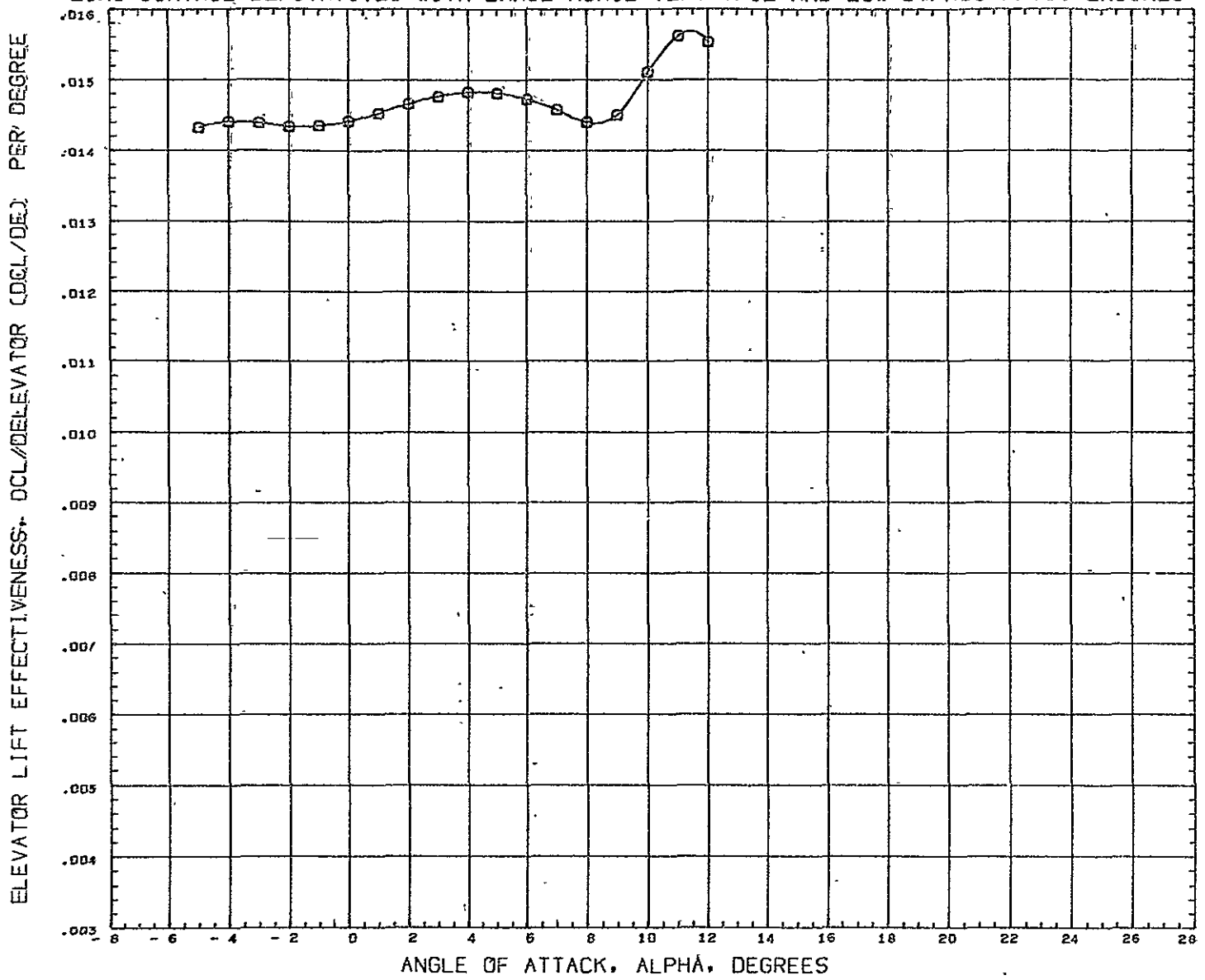
SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	ELEVTR	- 10.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	28.000

DATA HIST. CODE *F

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONG CONTROL DERIVATIVES WITH LARGE HORIZ-VERT TAIL AND LOW-BYPASS RATIO ENGINES

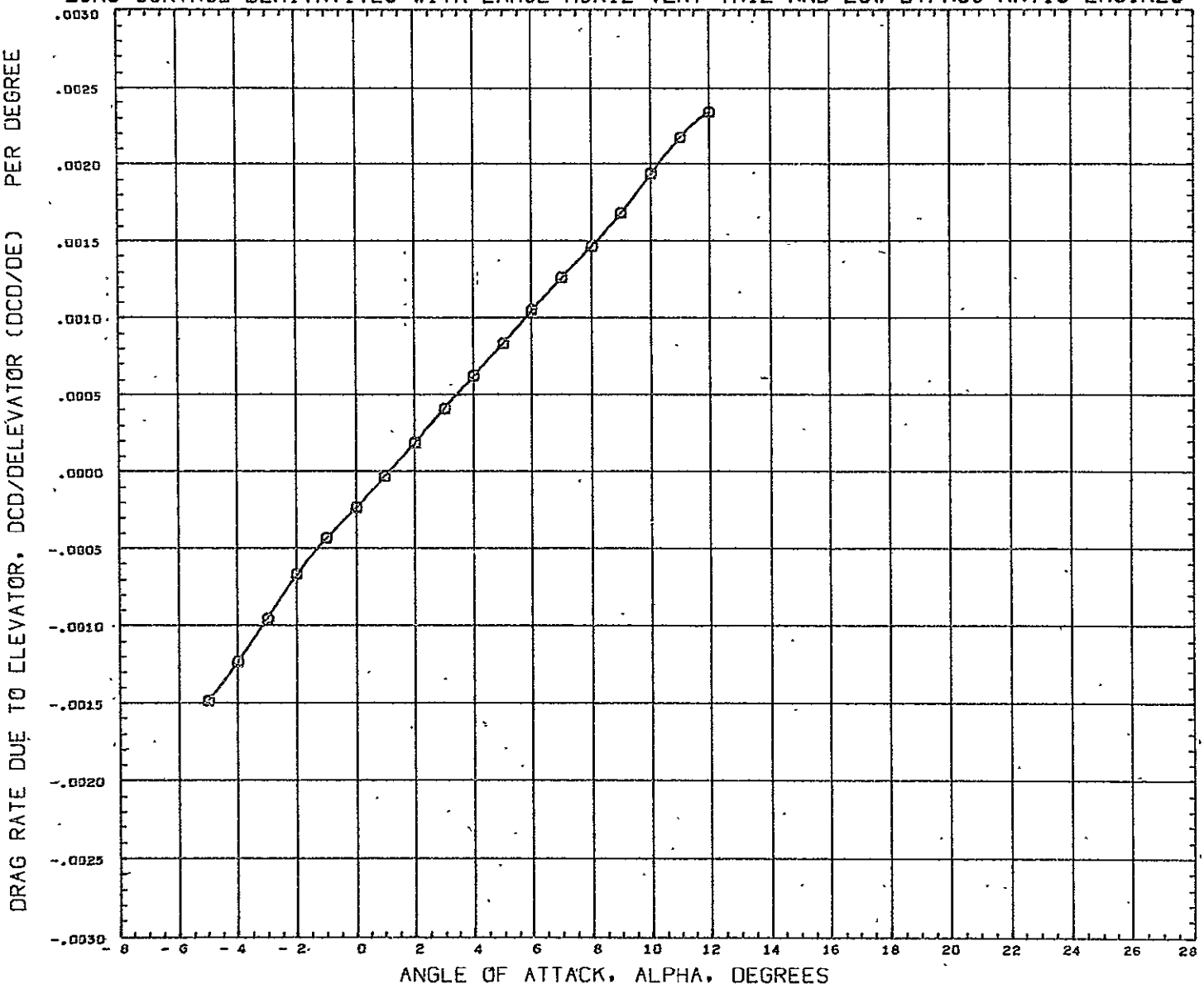


SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	ELEVTR	- 10.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	16.000

DATA HIST. CODE #F

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONG CONTROL DERIVATIVES WITH LARGE HORIZ-VERT TAIL AND LOW-BYPASS RATIO ENGINES



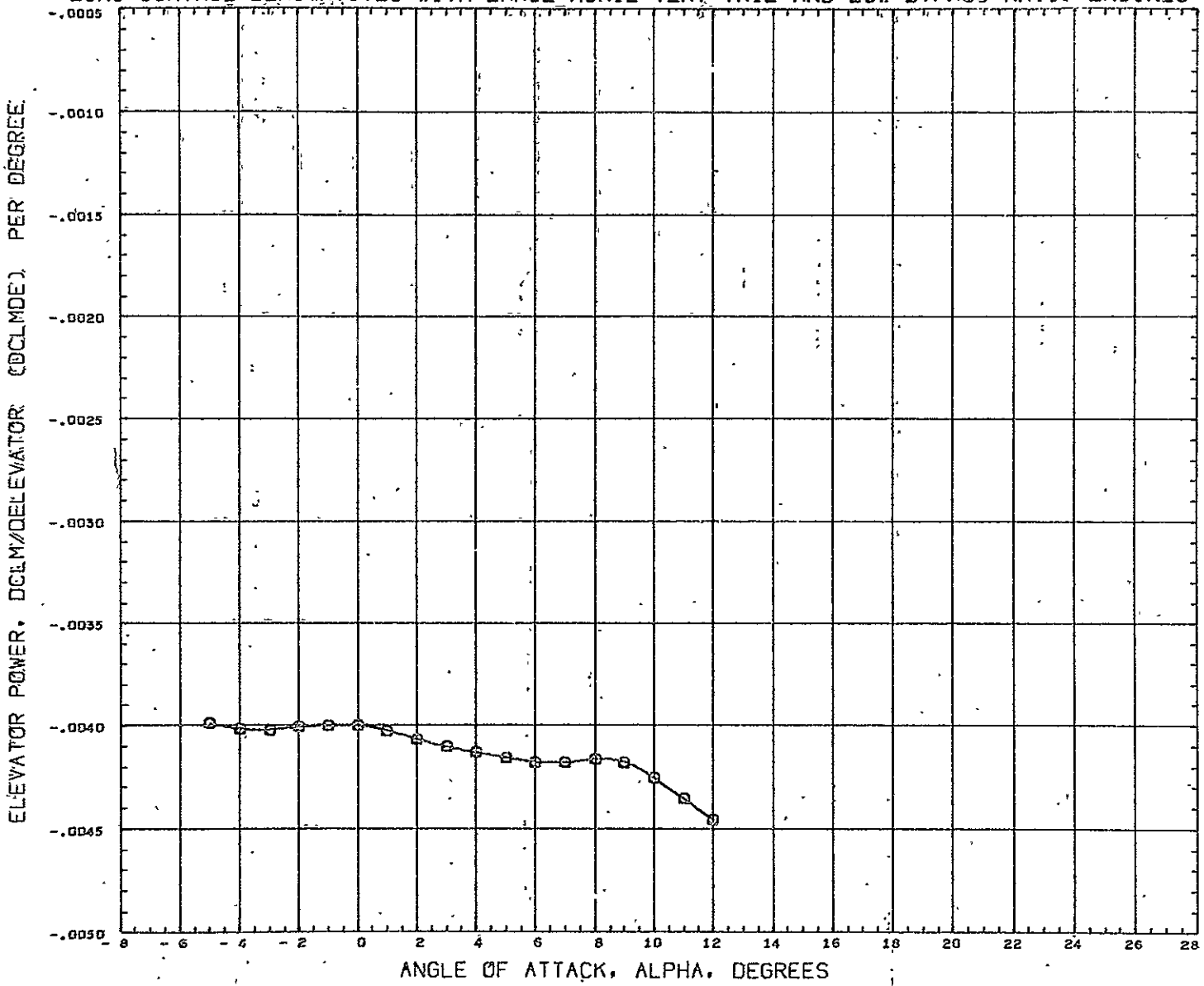
SYMBOL	MACH	PARAMETRIC VALUES			
O	0.259	BETA	0.000	ELEVTR	- 10.000
		RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	18.000

DATA HIST. CODE #F

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONG CONTROL DERIVATIVES WITH LARGE HORIZ-VERT TAIL AND LOW-BYPASS RATIO ENGINES



SYMBOL	MACH
O	0.259

PARAMETRIC VALUES

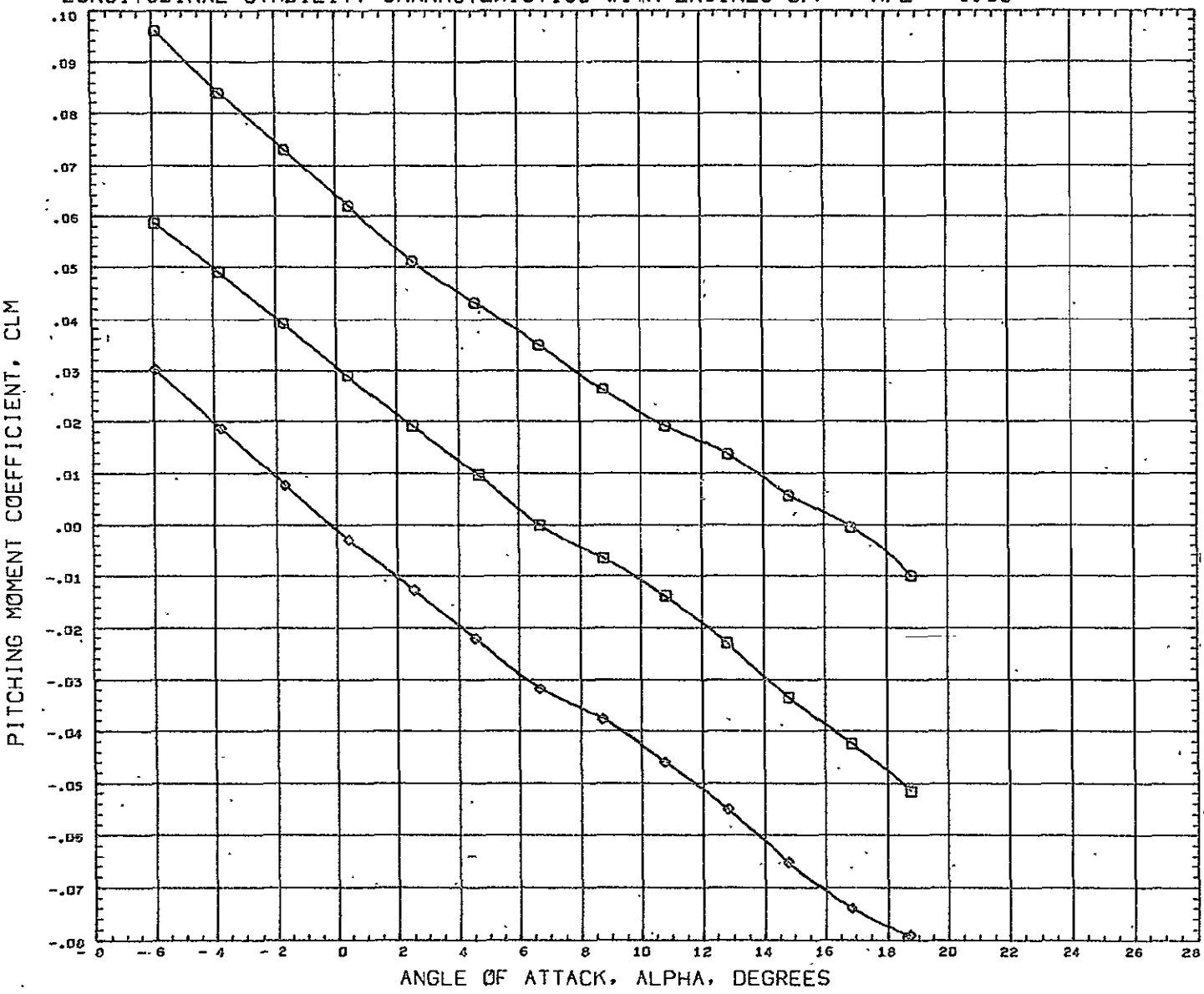
BETA	0.000	ELEVTR	- 10.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	18.000

DATA HIST. CODE #F

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.56

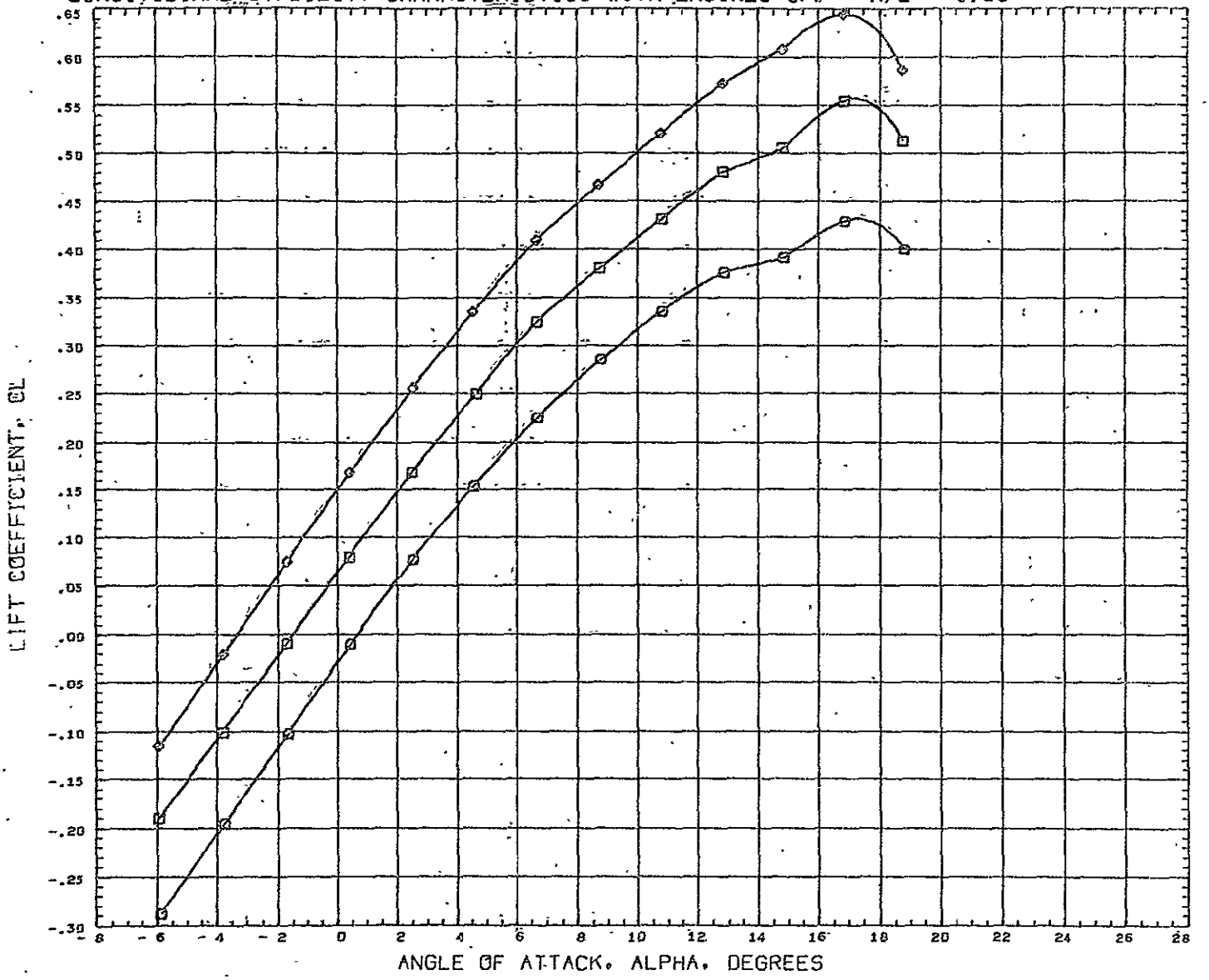


SYMBOL	ELEVTR		PARAMETRIC VALUES		
□	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	25.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.56



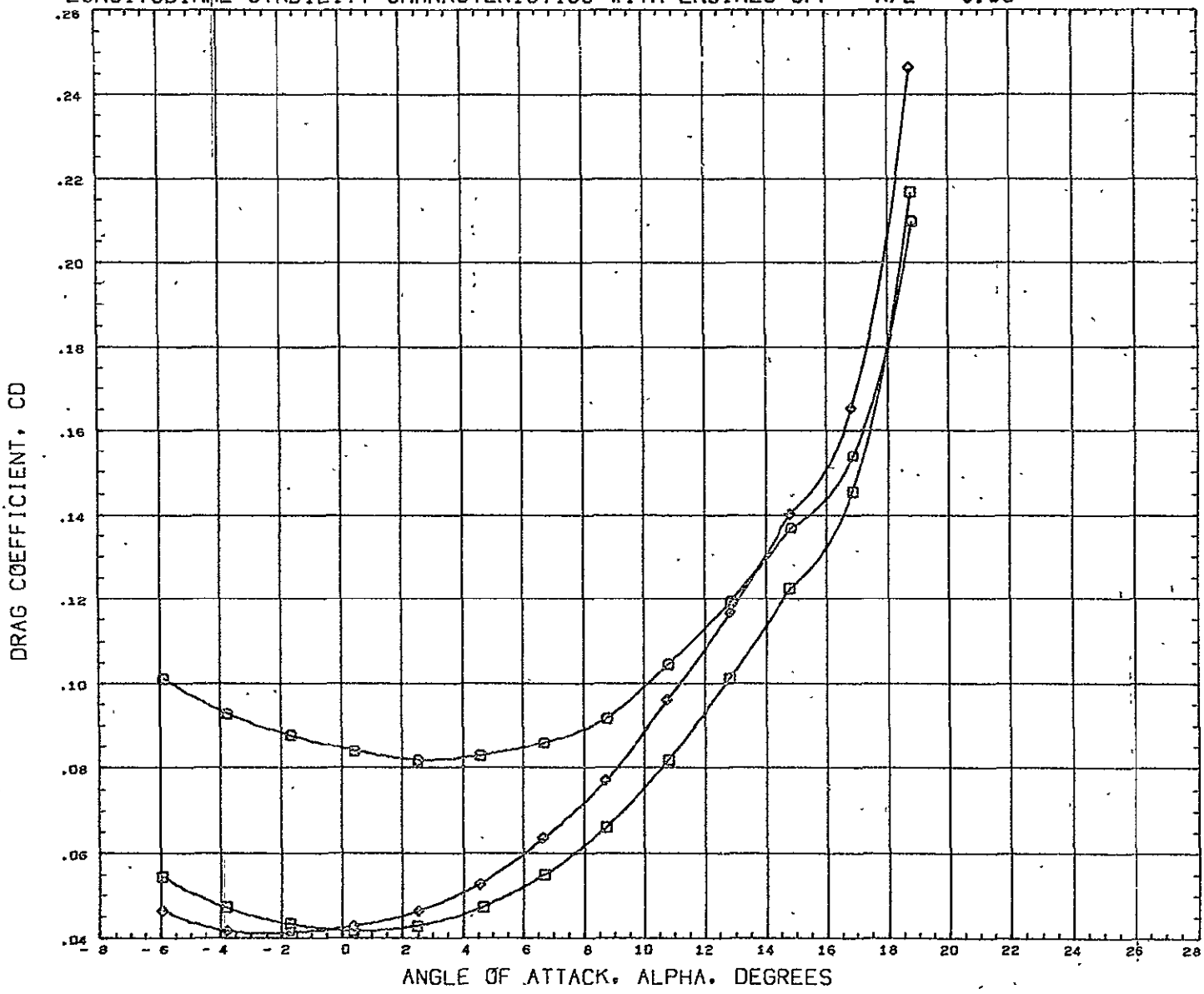
SYMBOL	ELEVTR	PARAMETRIC VALUES			
□	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	25.3800	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.56

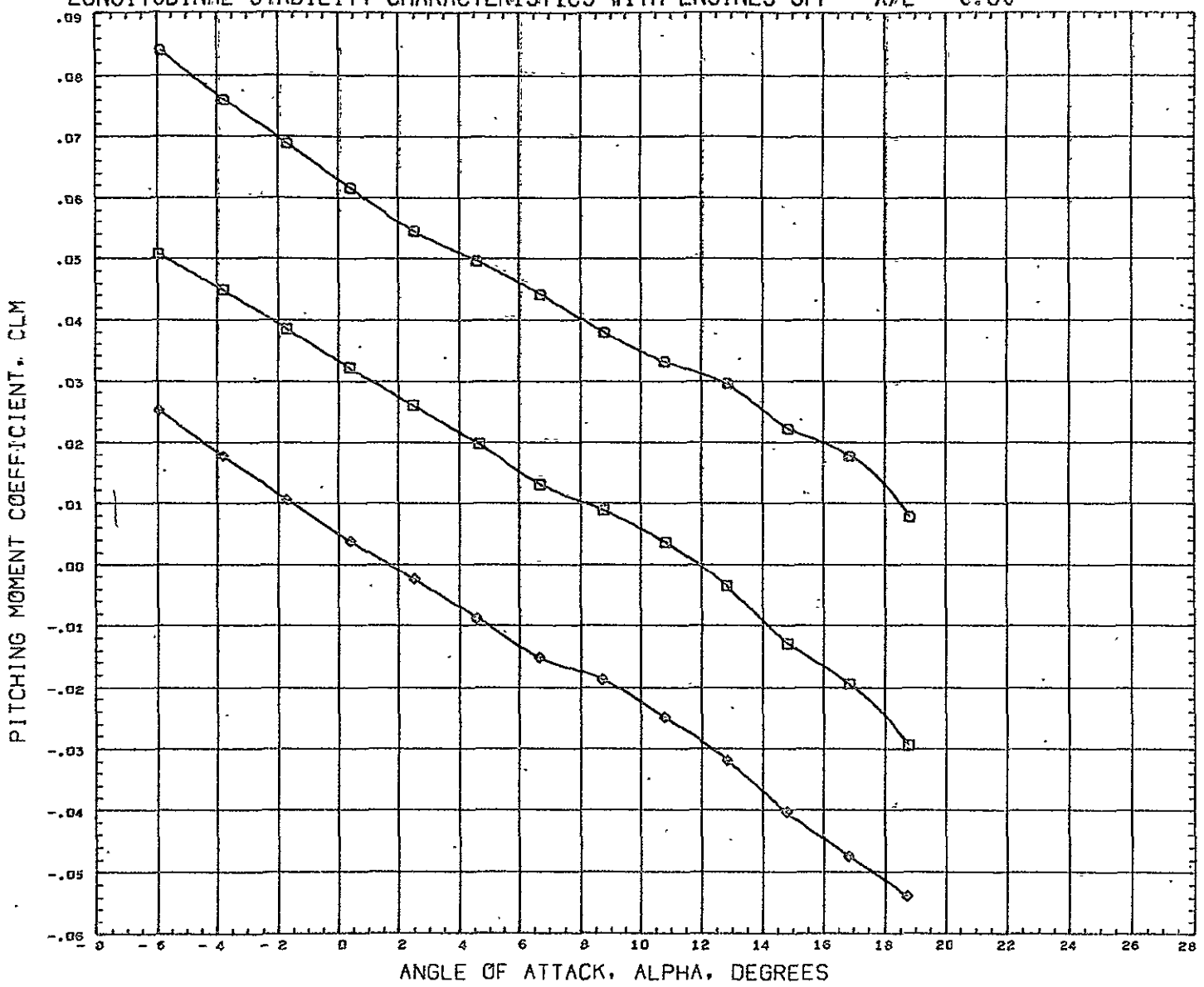


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	-30.000	MACH	0.259	BETA	0.000
□	-10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	25.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.60

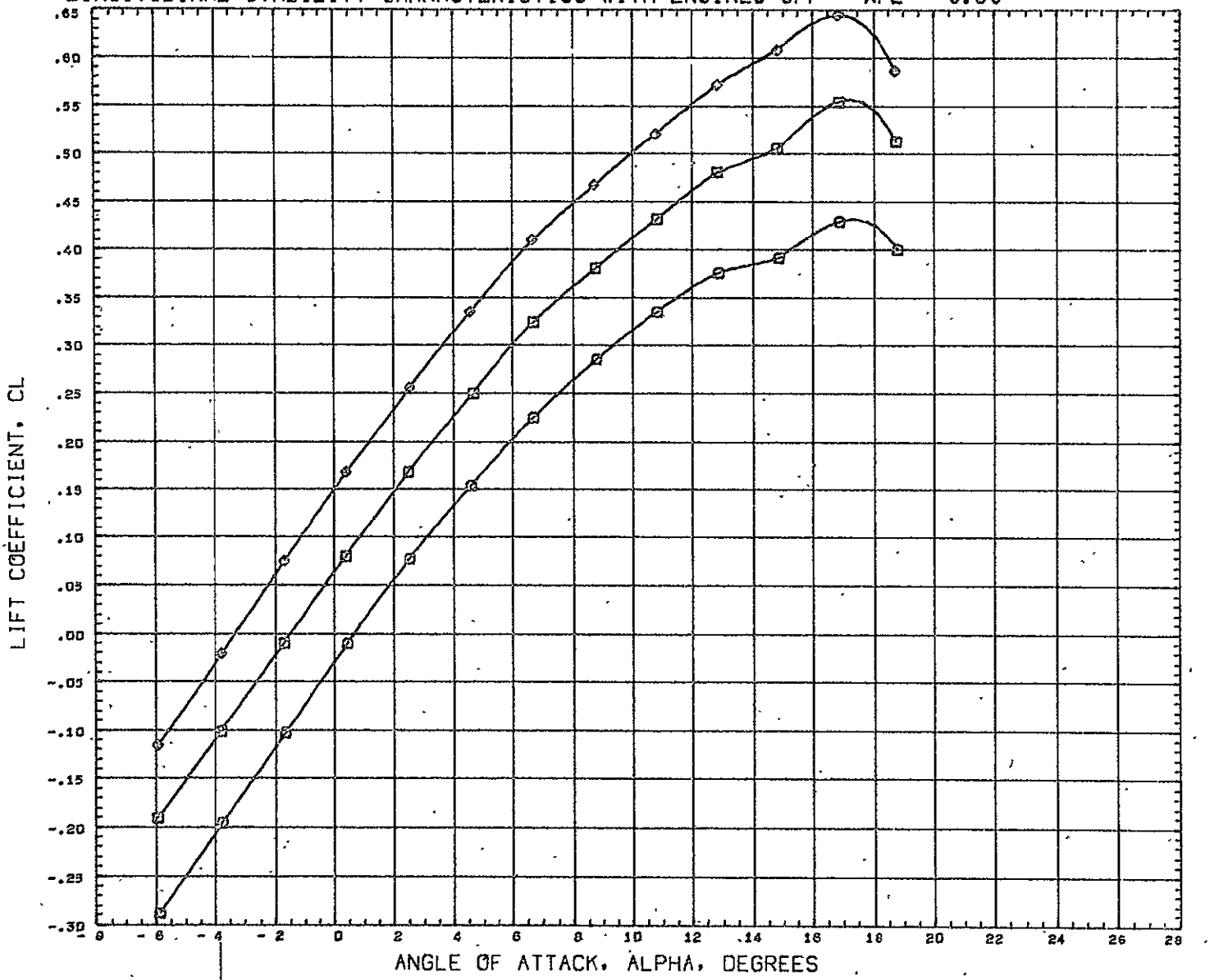


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.60



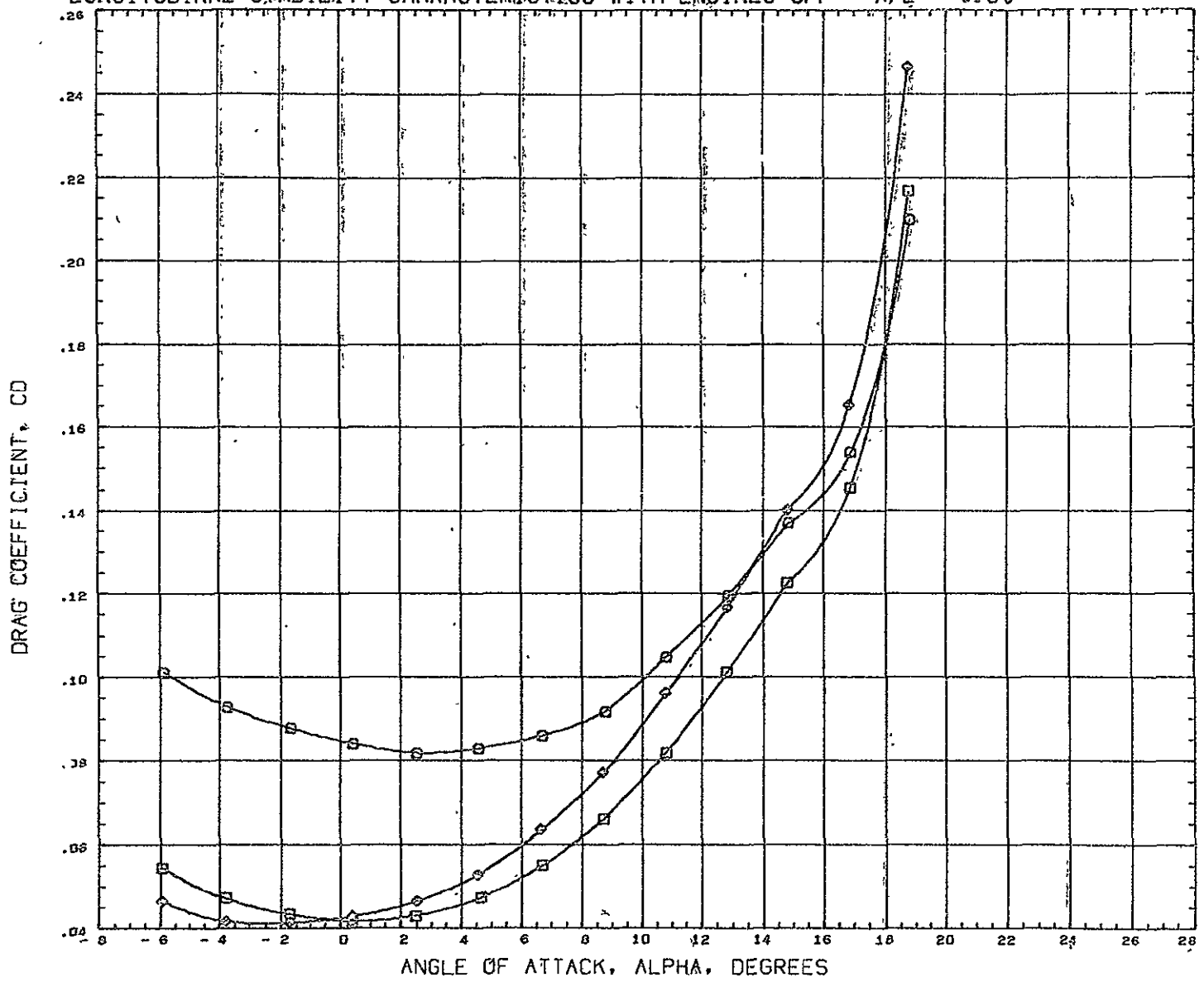
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.60

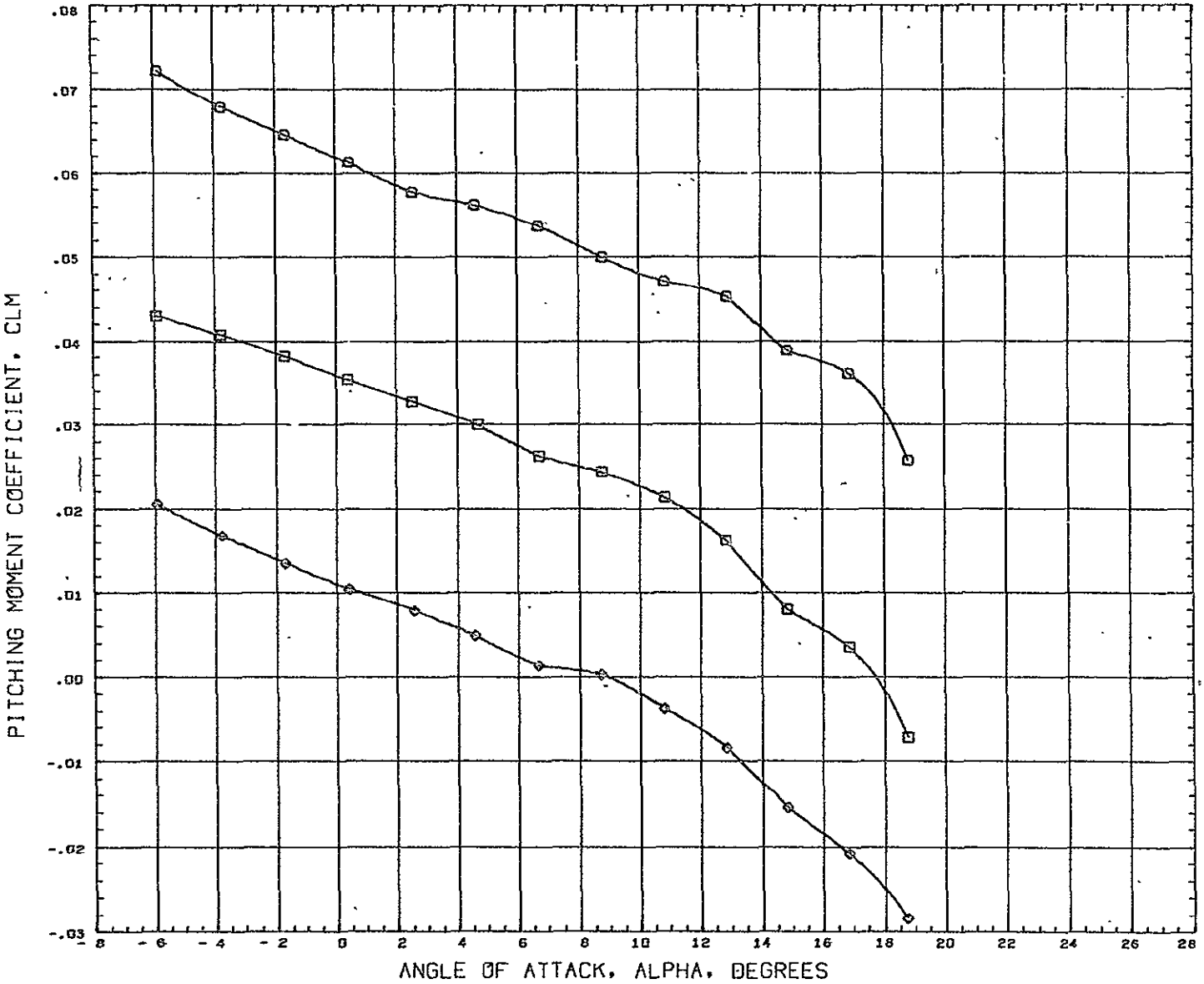


SYMBOL	ELEVTR	PARAMETRIC VALUES			
□	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

DATA HIST. CODE 5

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.64

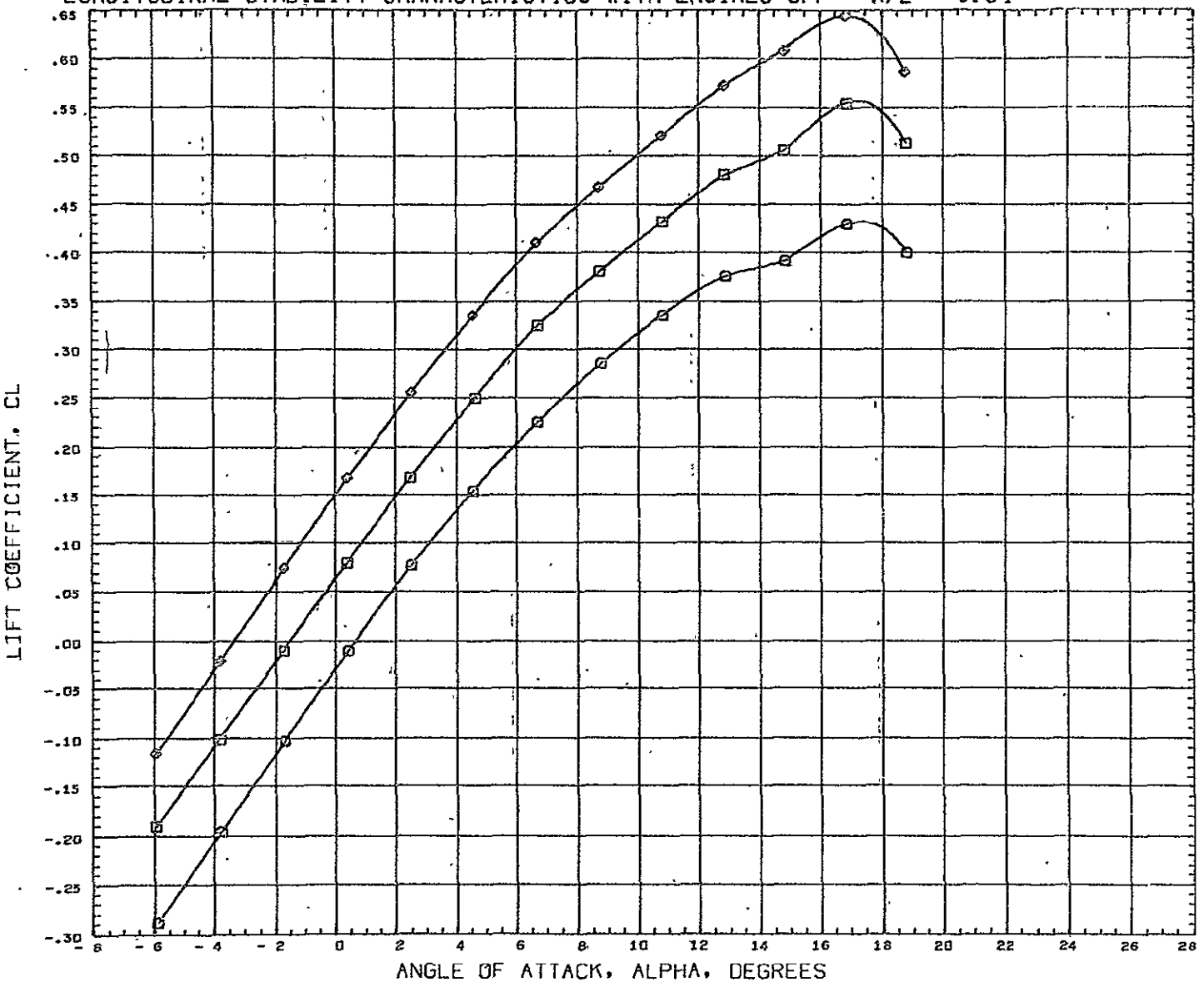


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.64

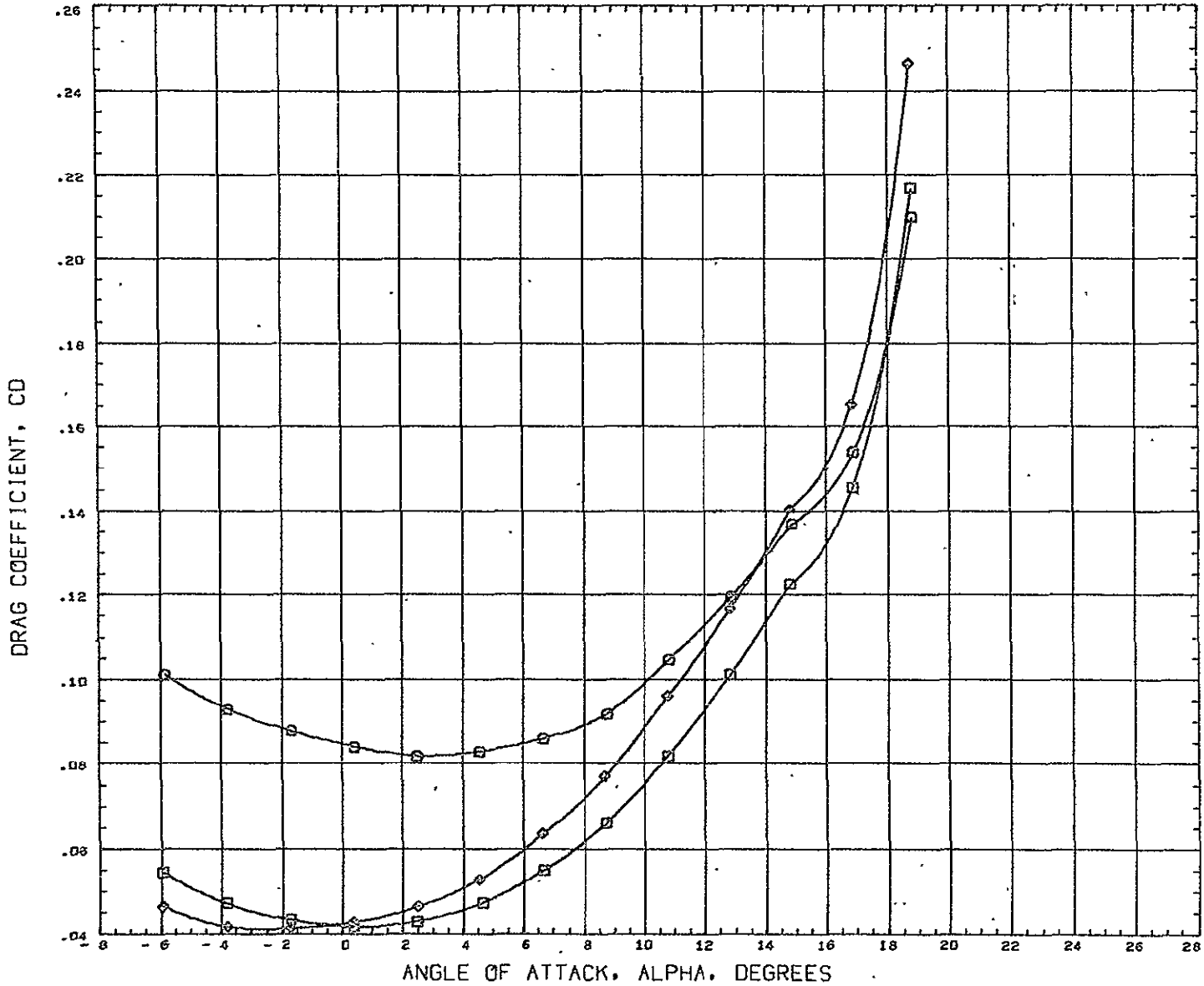


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.64

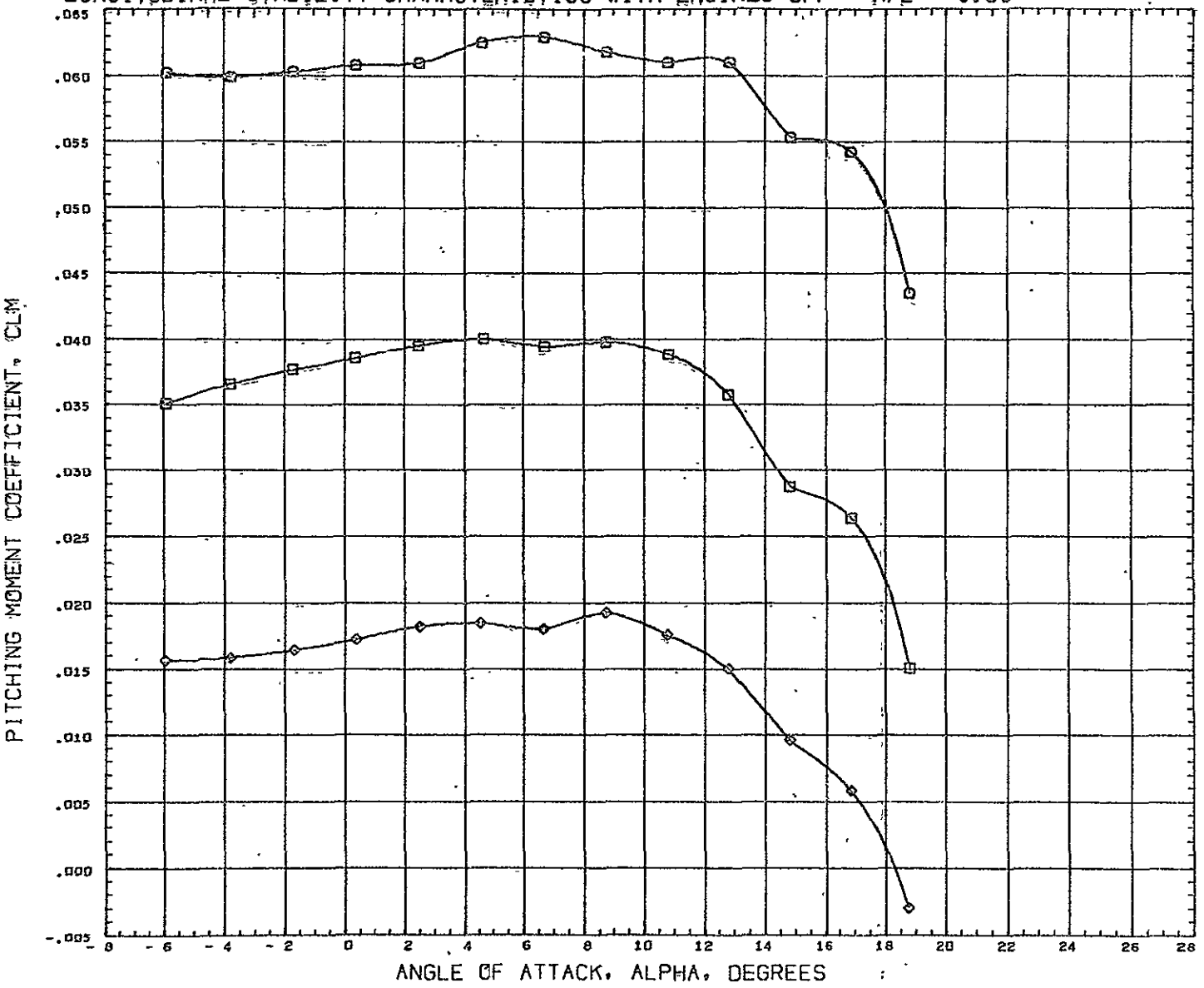


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.68



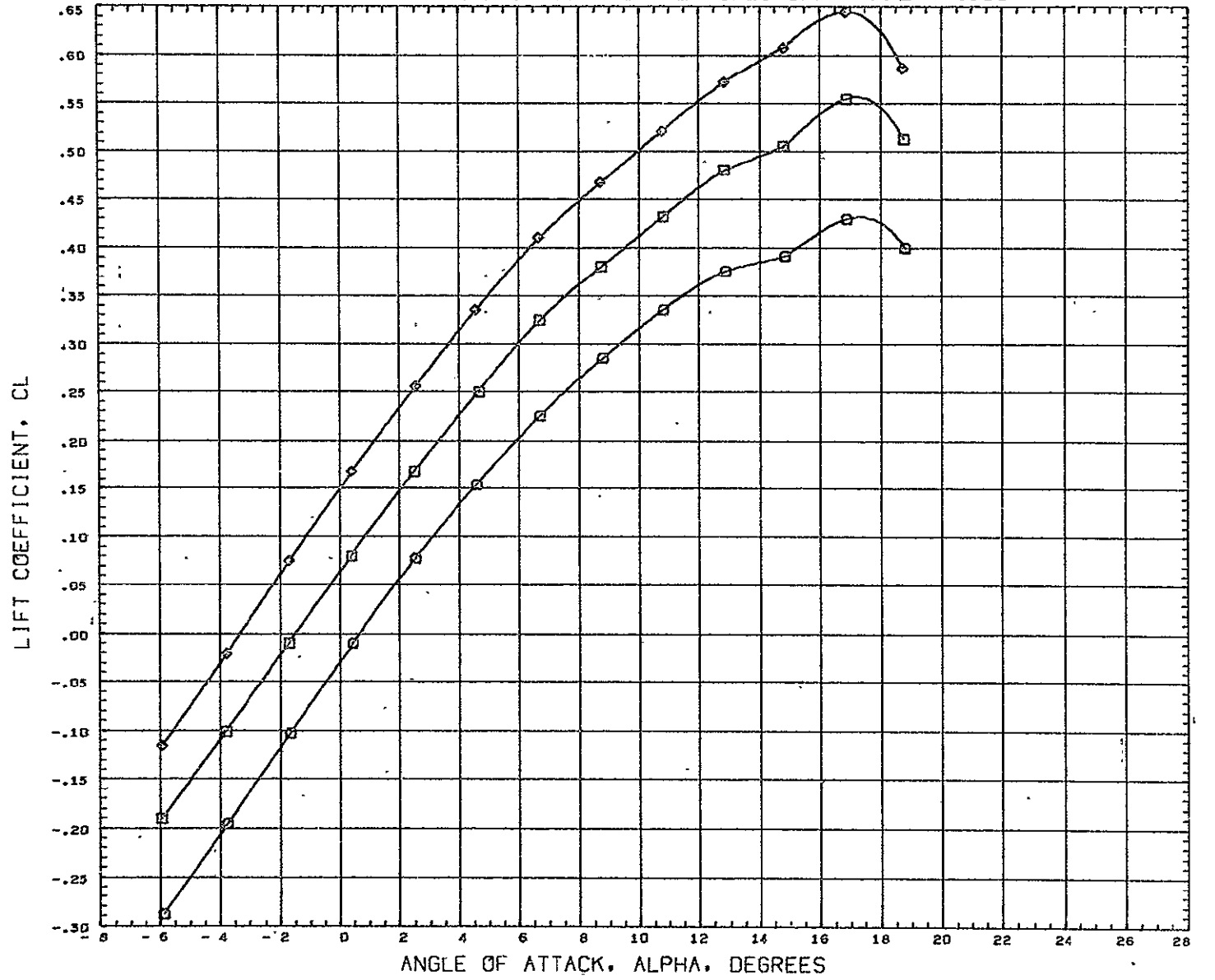
SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4900	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.68



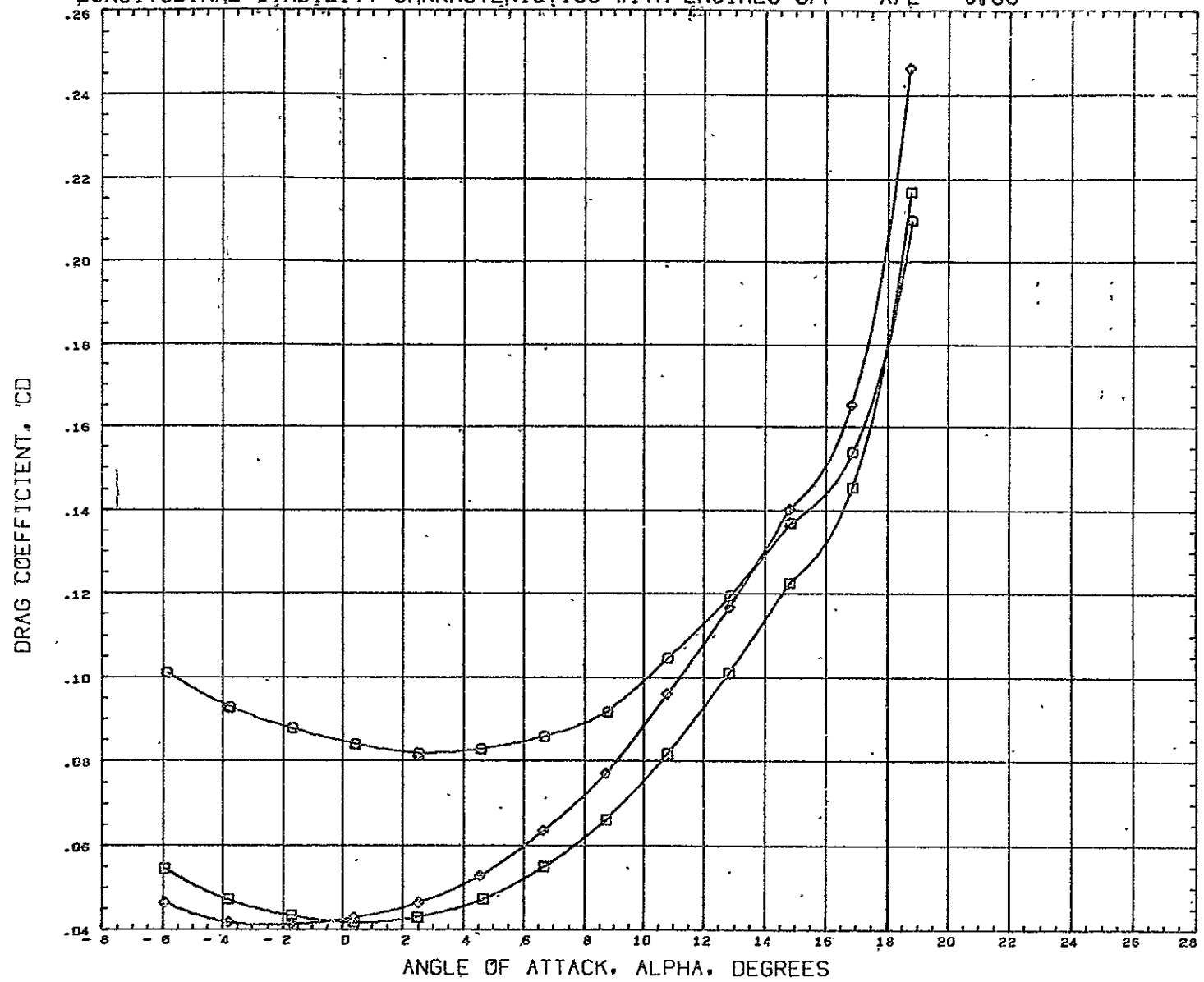
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH ENGINES OFF - X/L = 0.68

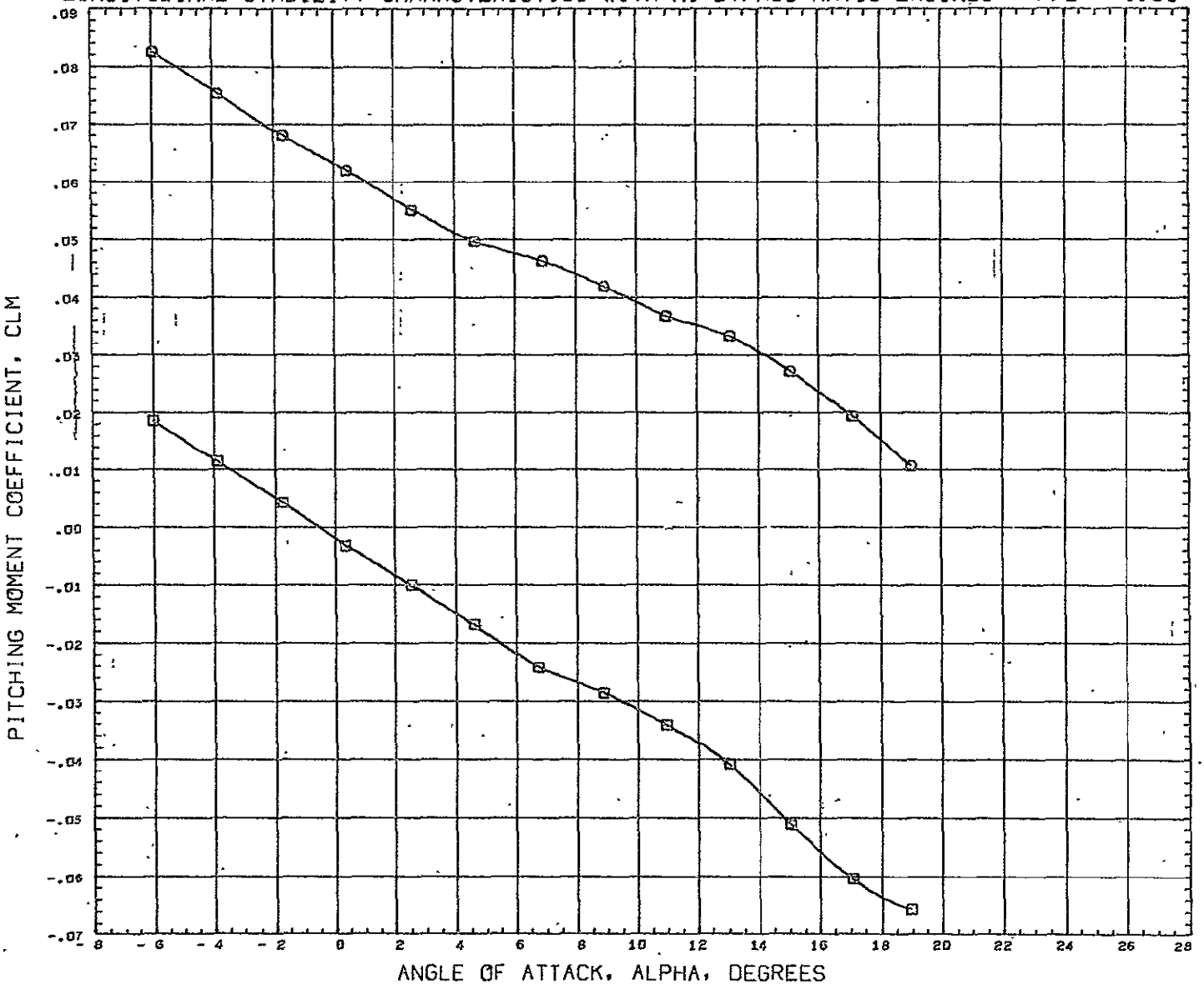


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000		

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.56



SYMBOL	ELEVTR
O	- 30.000
□	0.000

PARAMETRIC VALUES

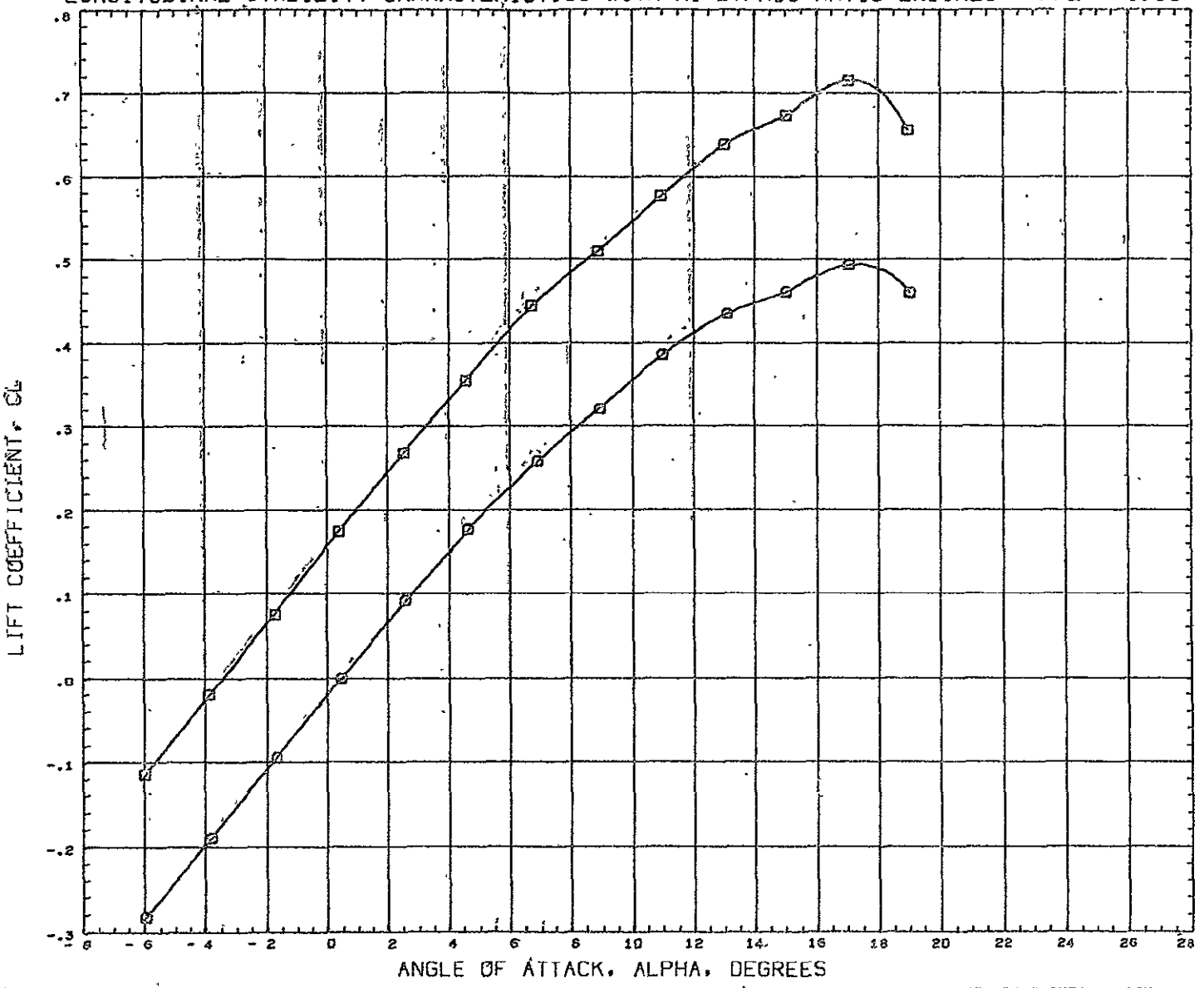
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	25.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.56

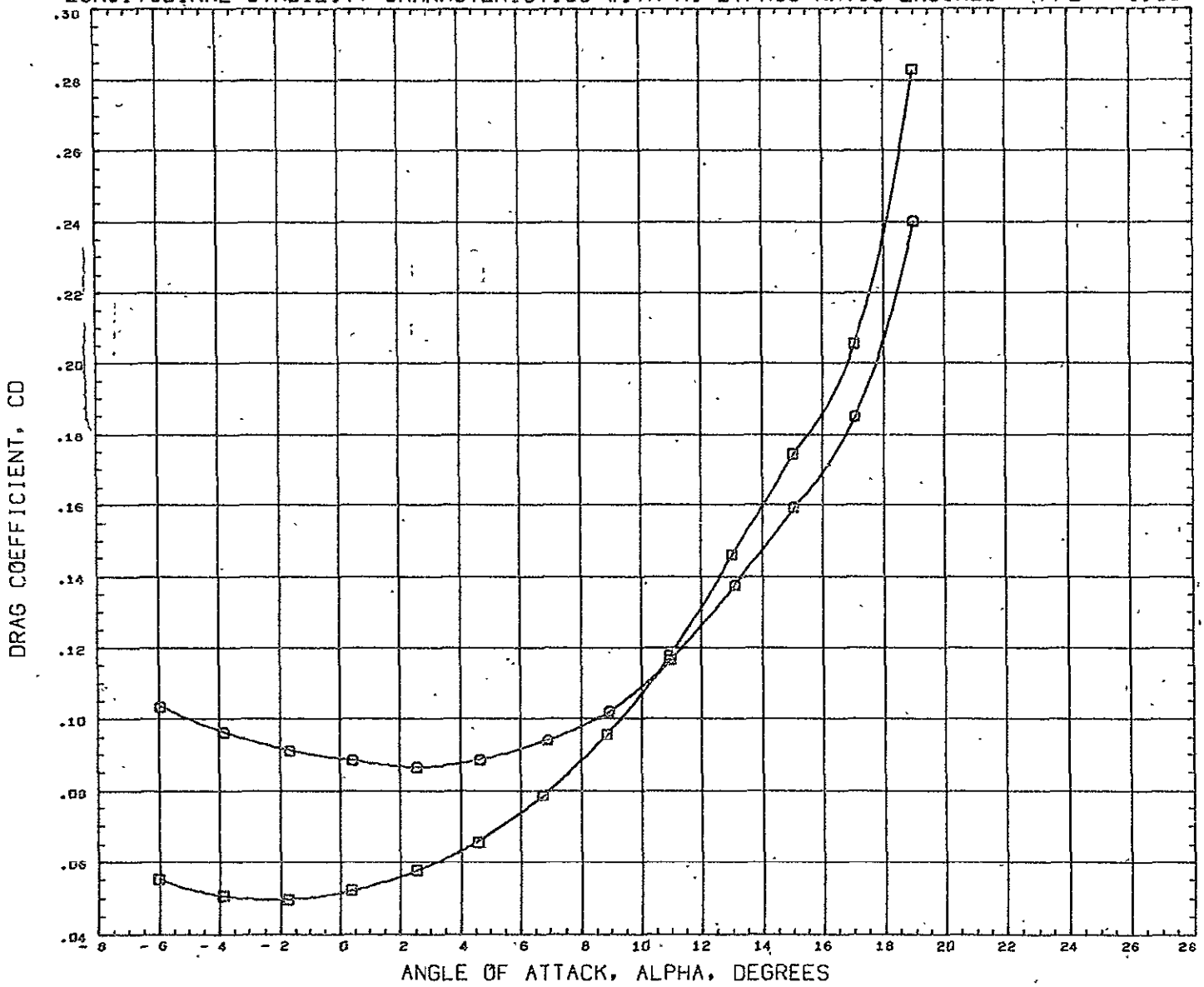


SYMBOL	ELEVTR	PARAMETRIC VALUES			
O	-30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	13.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	25.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.56

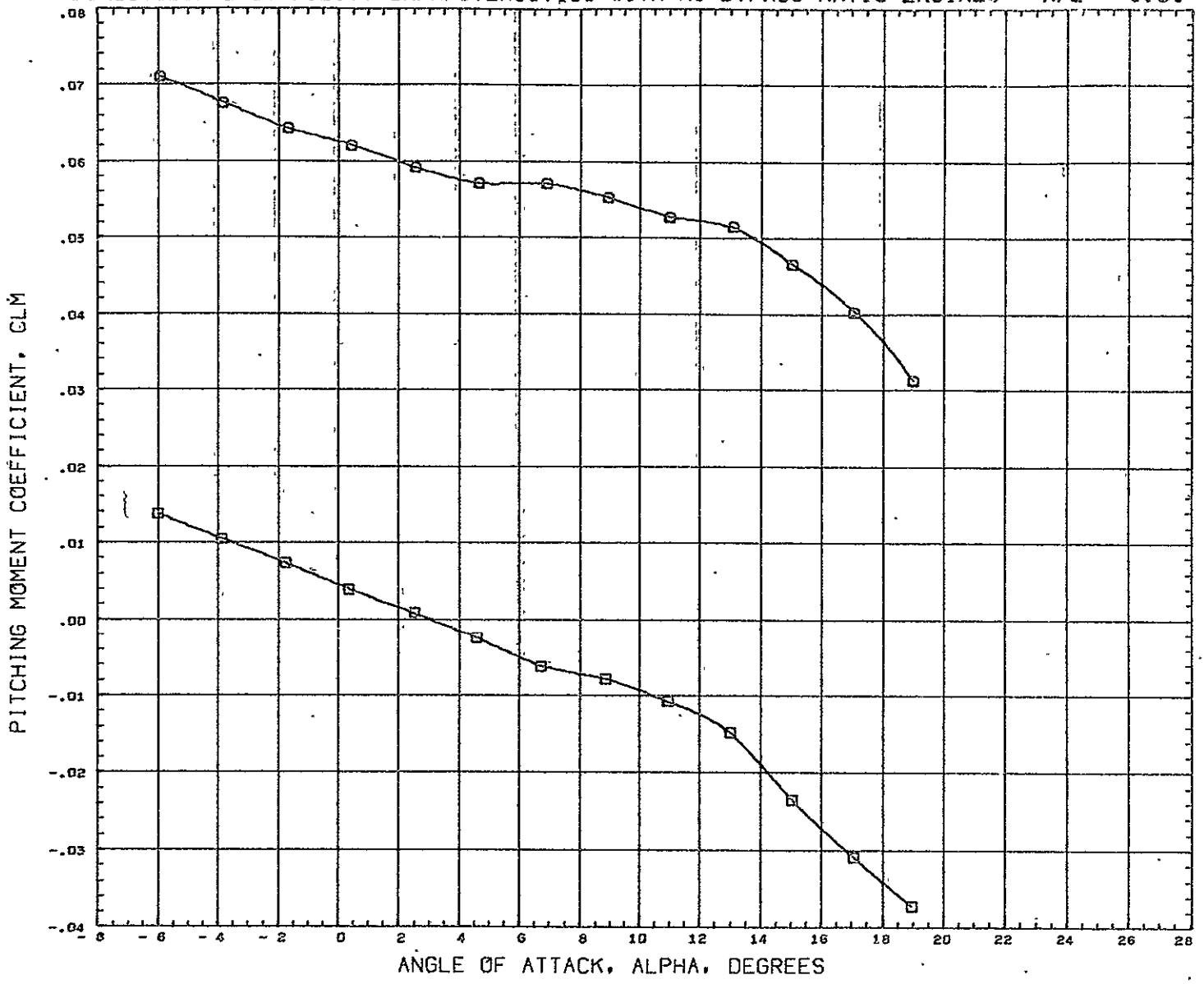


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	13.050

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	25.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.60



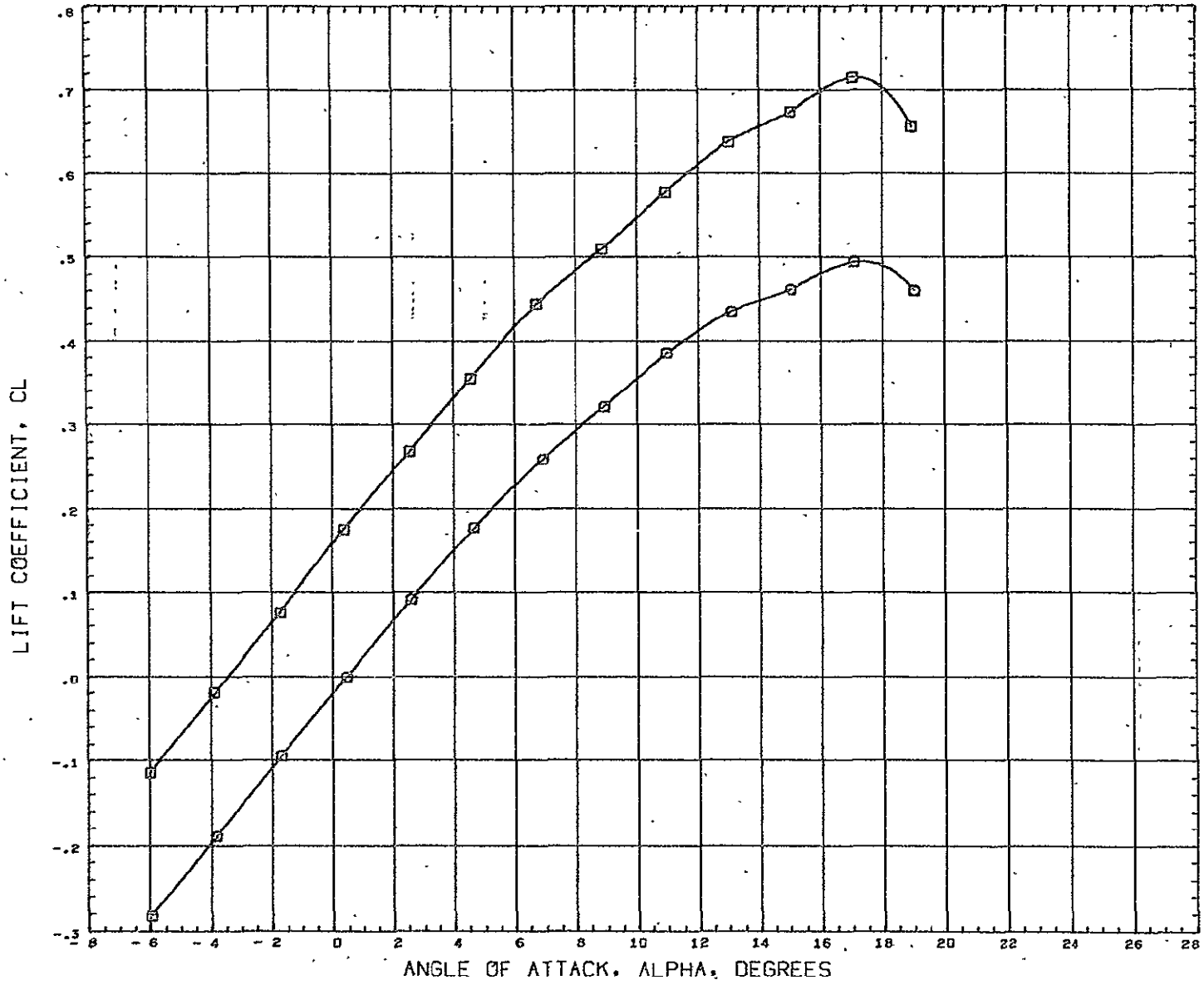
SYMBOL	ELEVTR	PARAMETRIC VALUES			
O	- 30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	13.000

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.60

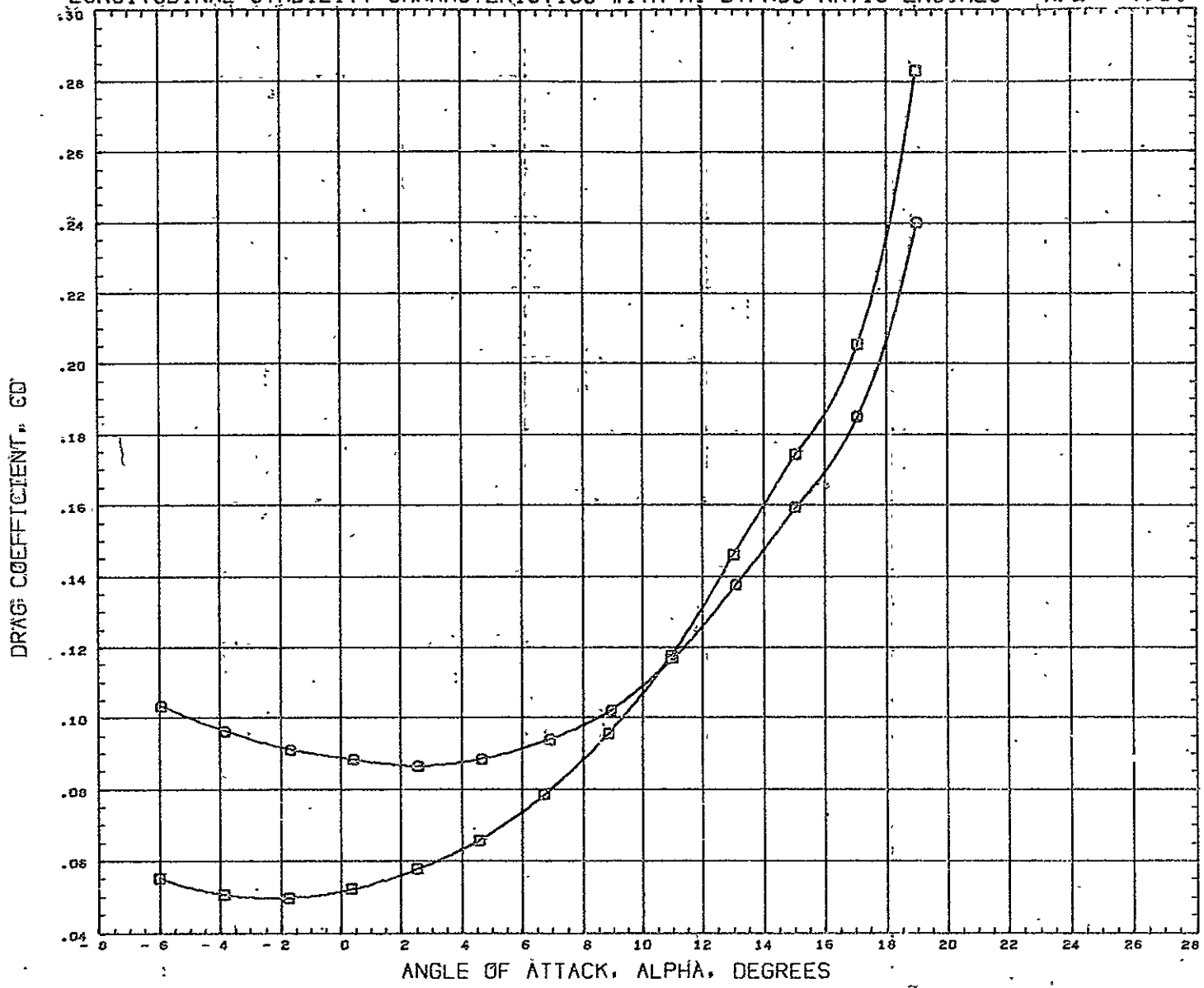


SYMBOL	ELEVTR	PARAMETRIC VALUES			
O	- 30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	13.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.60



SYMBOL	ELEVTR
○	- 30.000
□	0.000

PARAMETRIC VALUES

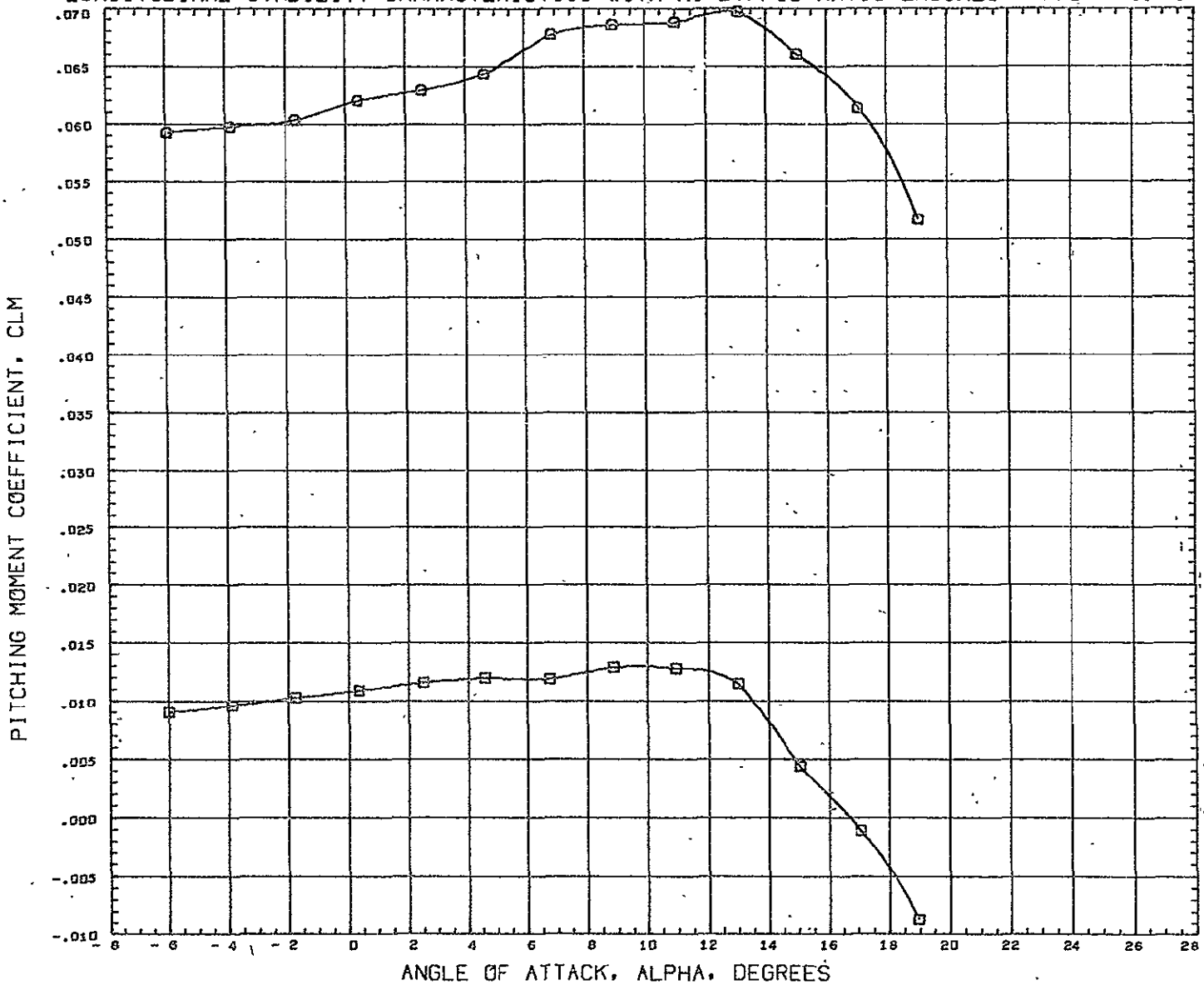
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

DATA HIST. CODE S

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.64



SYMBOL	ELEVTR
O	- 30.000
□	0.000

PARAMETRIC VALUES

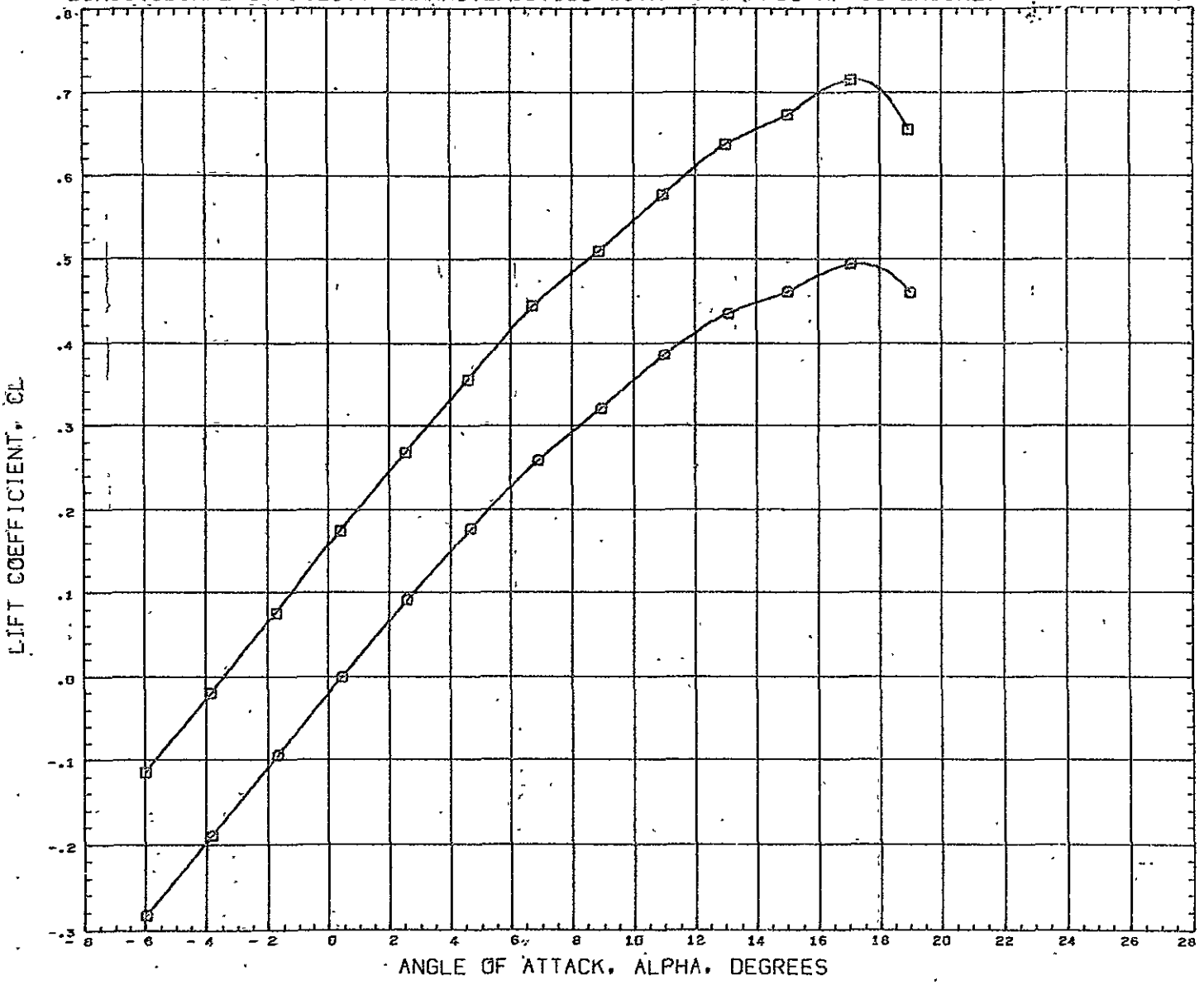
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.64

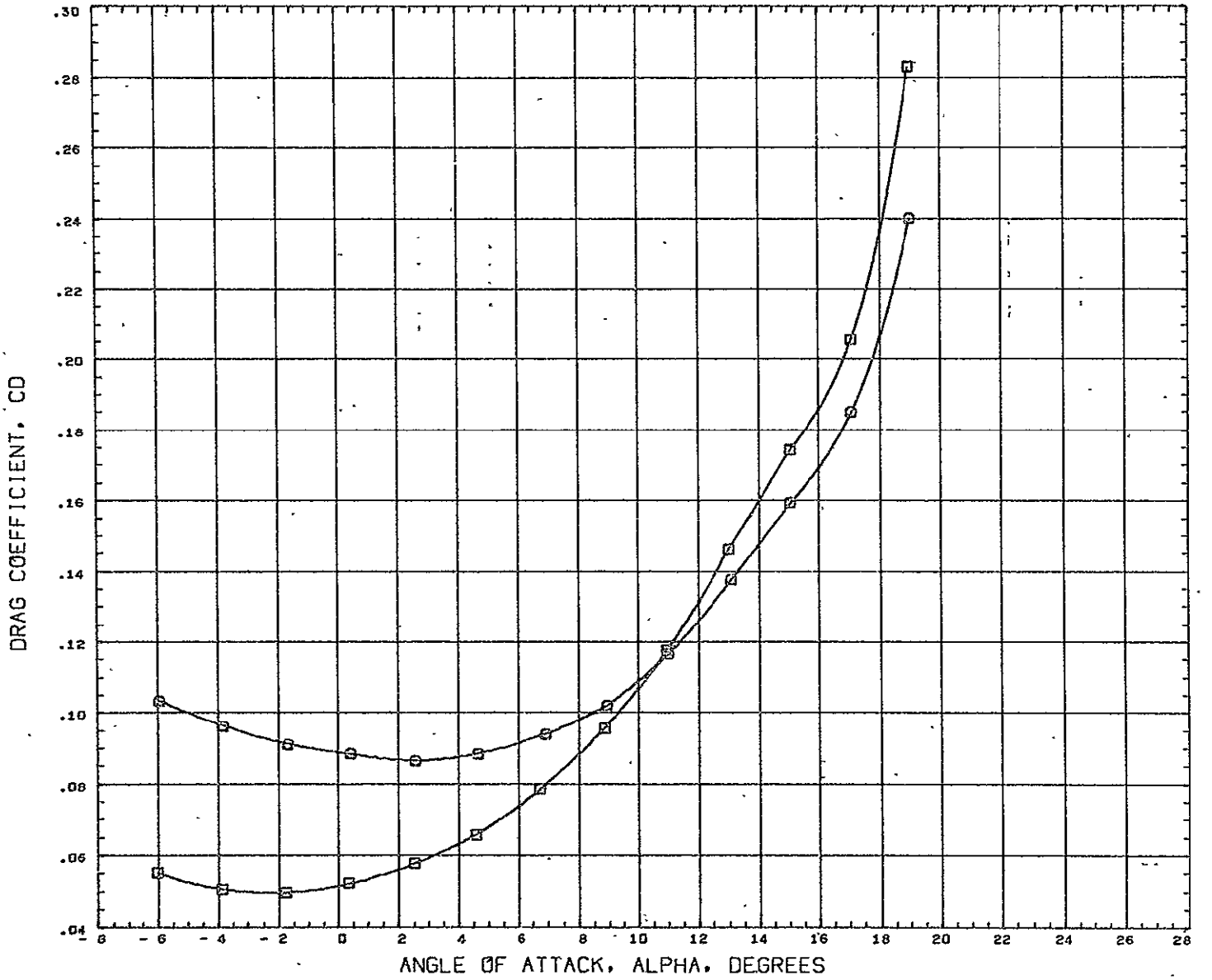


SYMBOL	ELEVTR		PARAMETRIC VALUES		
O	- 30.000	MACH	0.259	BETA	0.000
B	0.000	RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.64

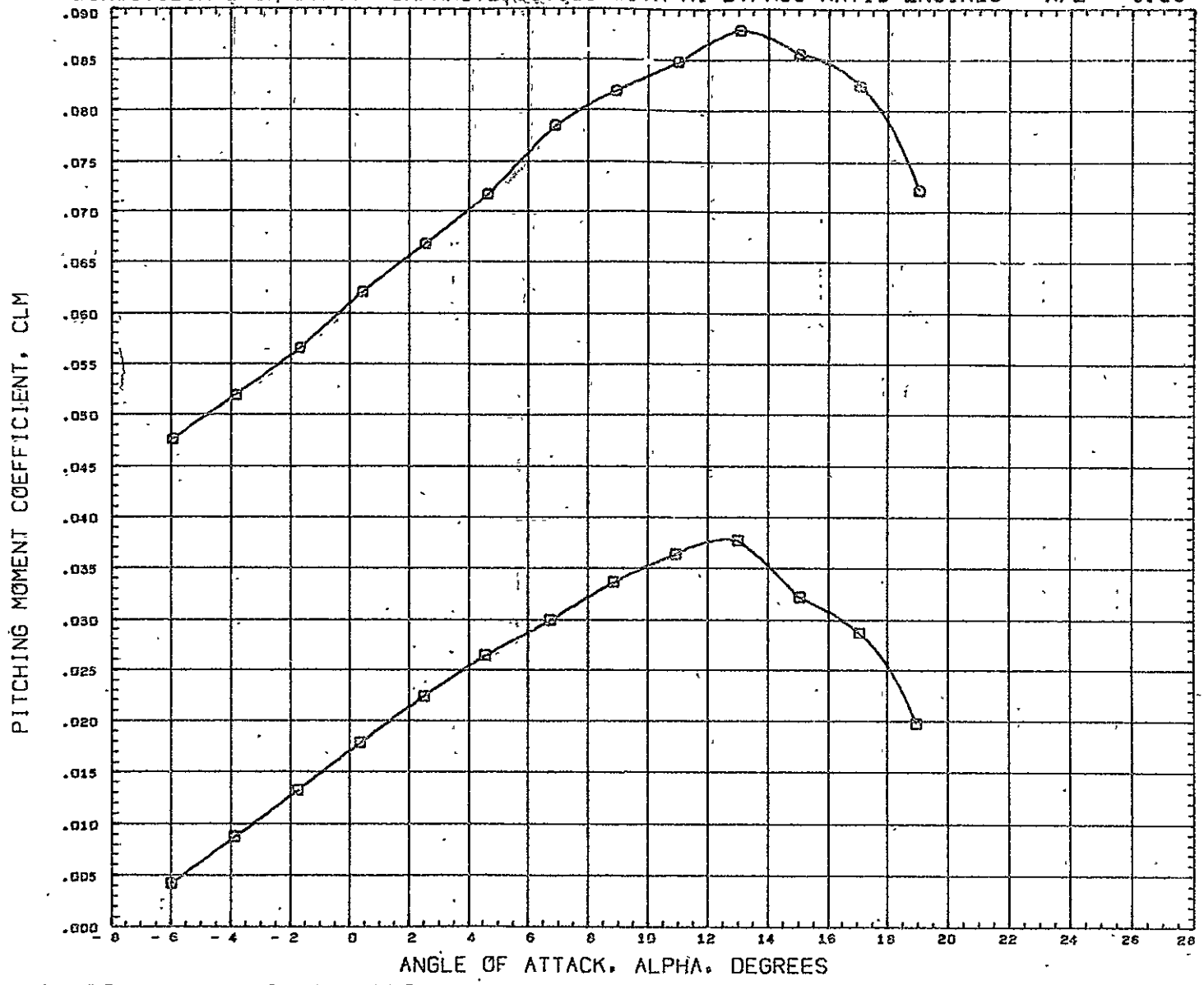


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	13.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB.	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.68



SYMBOL	ELEVTR
O	- 30.000
□	0.000

PARAMETRIC VALUES

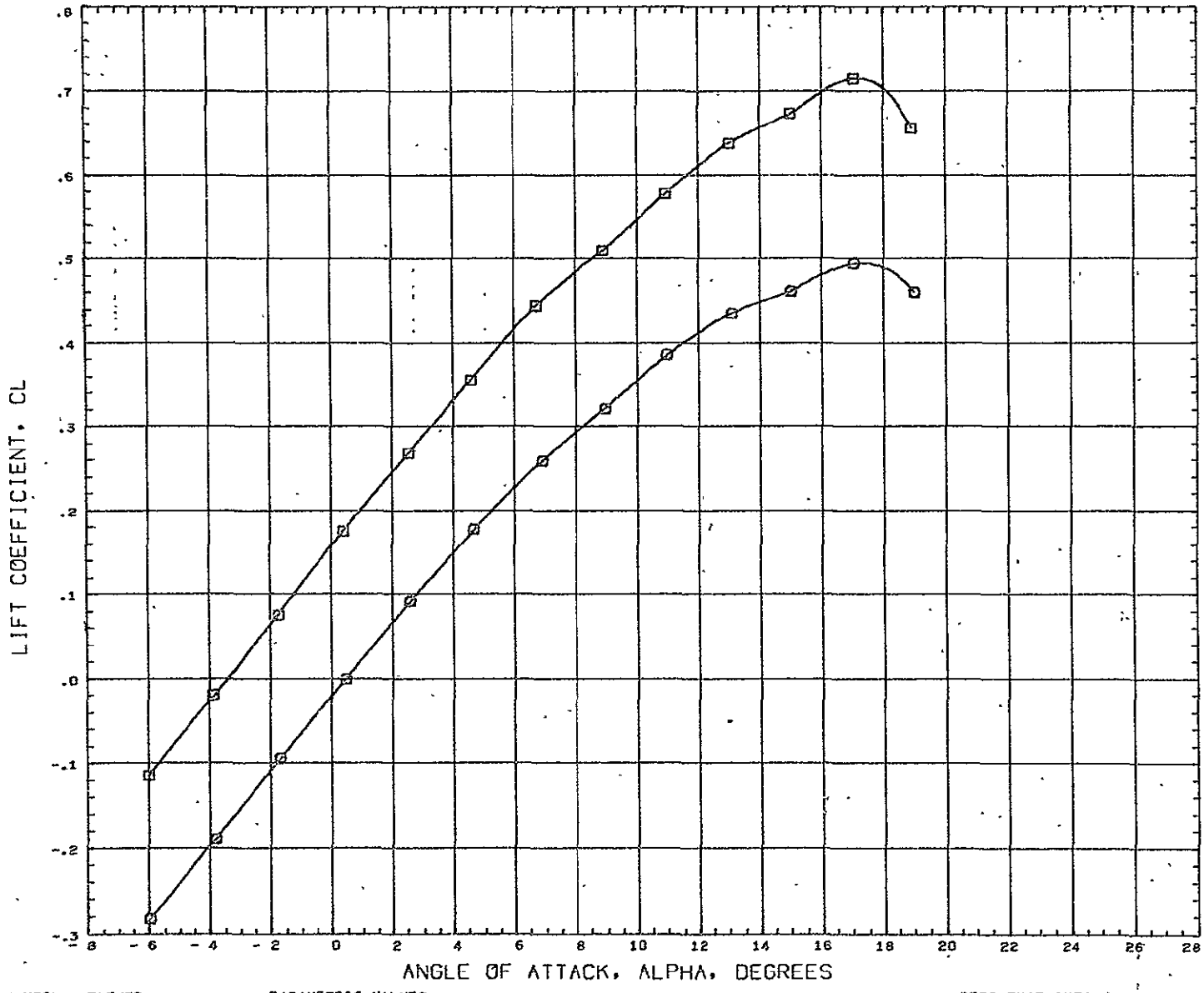
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.68



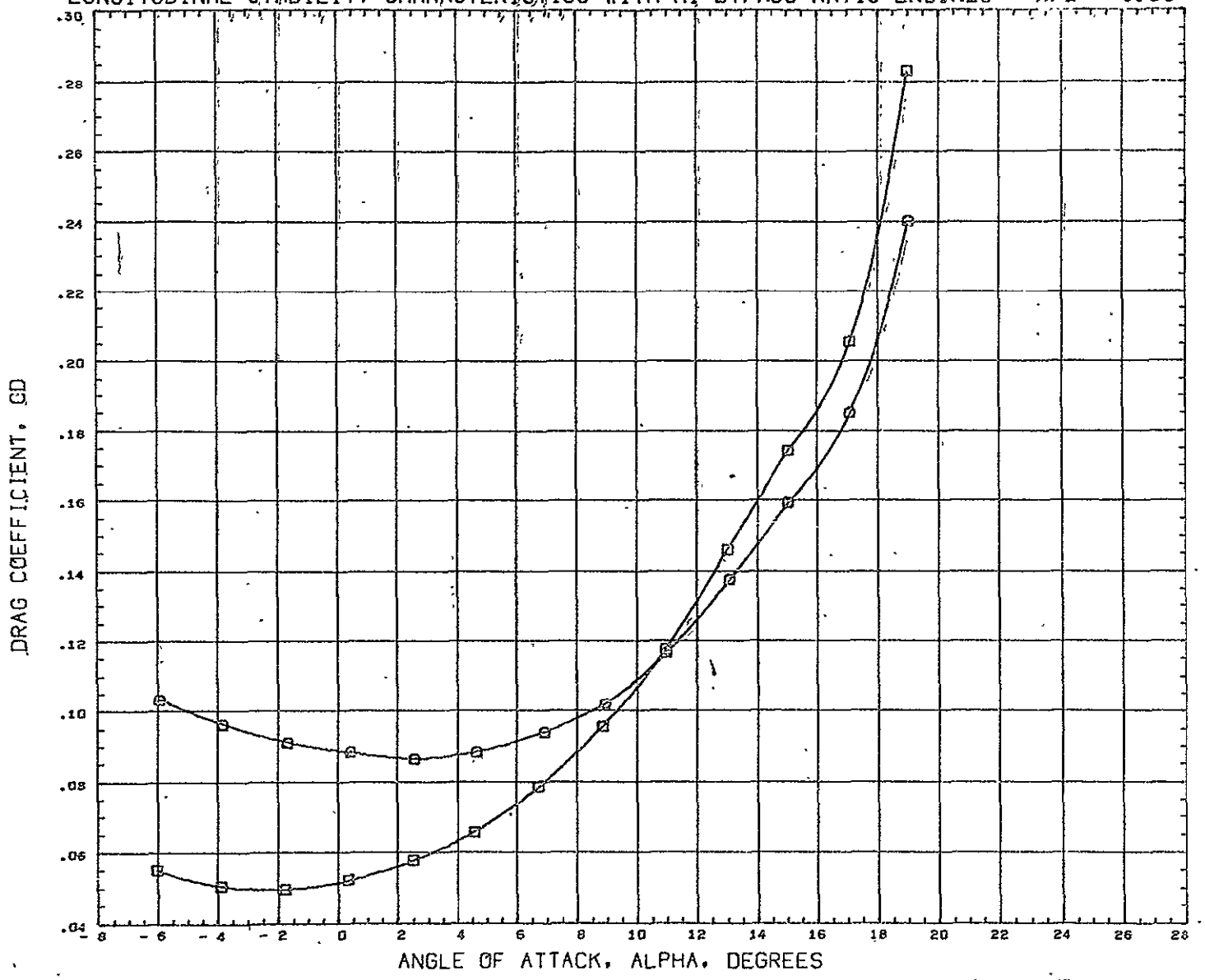
SYMBOL	ELEVTR	PARAMETRIC VALUES			
O	- 30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
		SPOILR	0.000	ENGINE	13.000

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.68



SYMBOL	ELEVTR
○	-30.000
□	0.000

PARAMETRIC VALUES

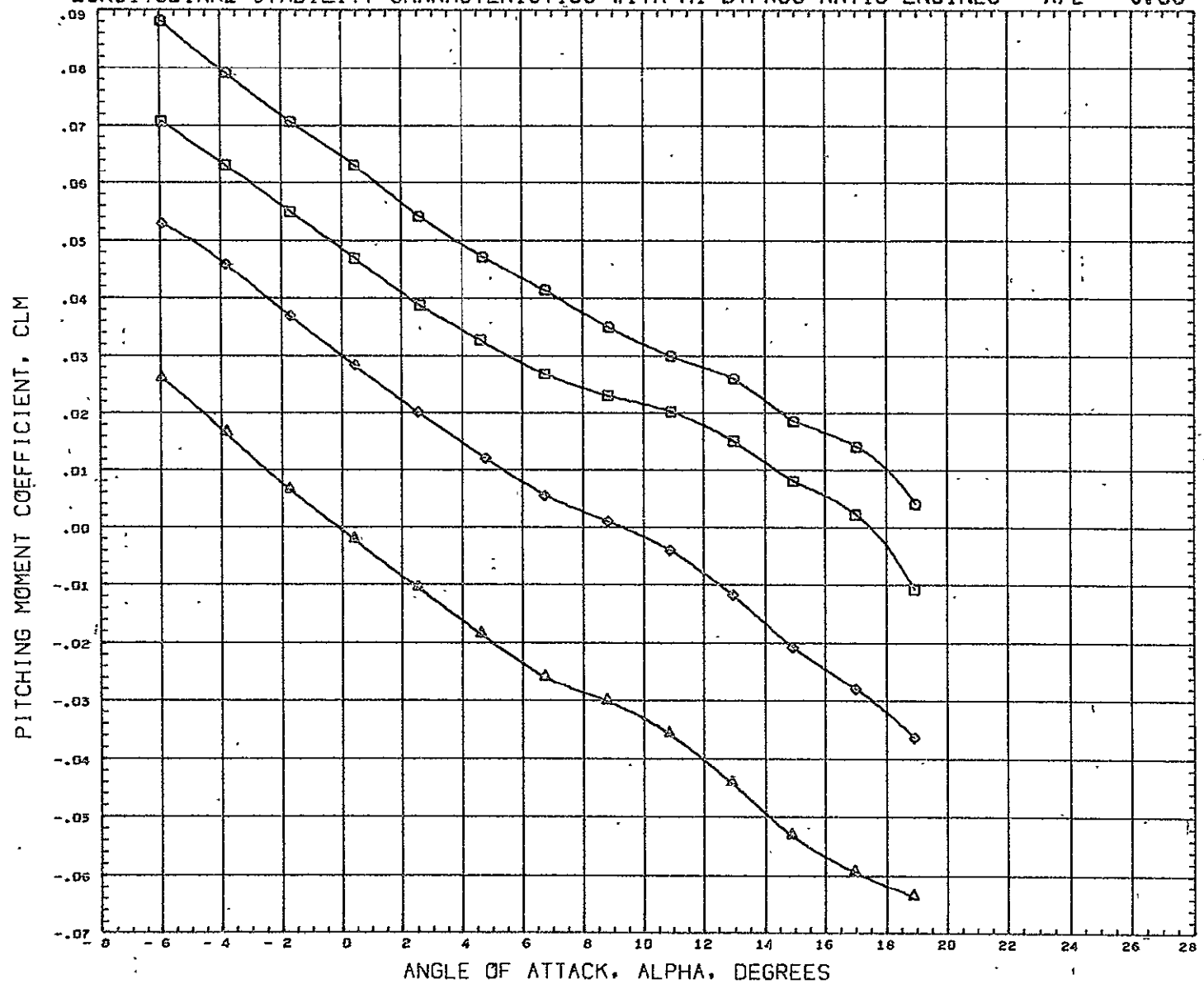
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	13.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	31.4000	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

DATA HIST. CODE S

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.56



SYMBOL	ELEVTR
○	- 30.000
□	- 20.000
◇	- 10.000
△	0.000

PARAMETRIC VALUES

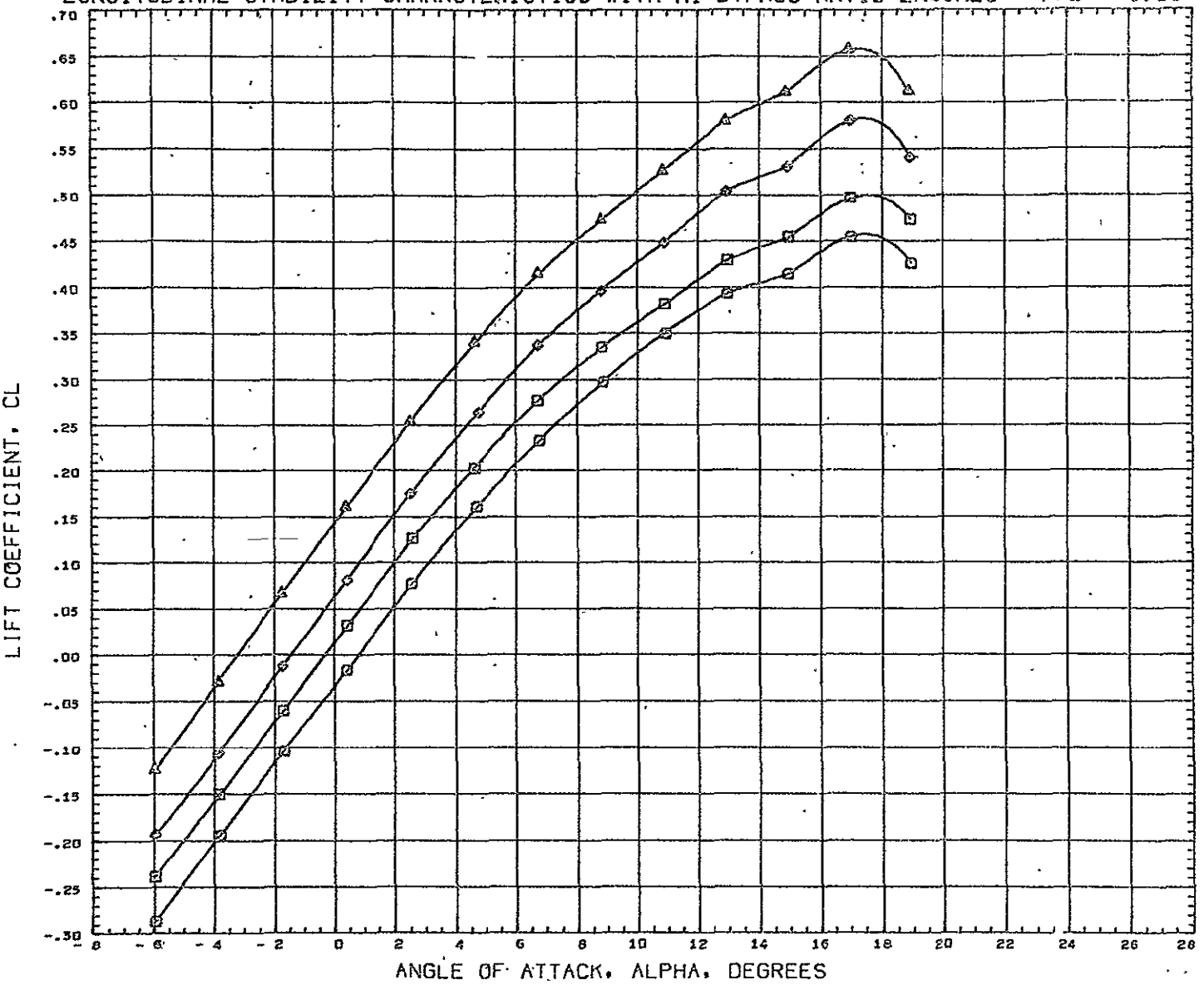
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	26.000

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	25.3800	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.56

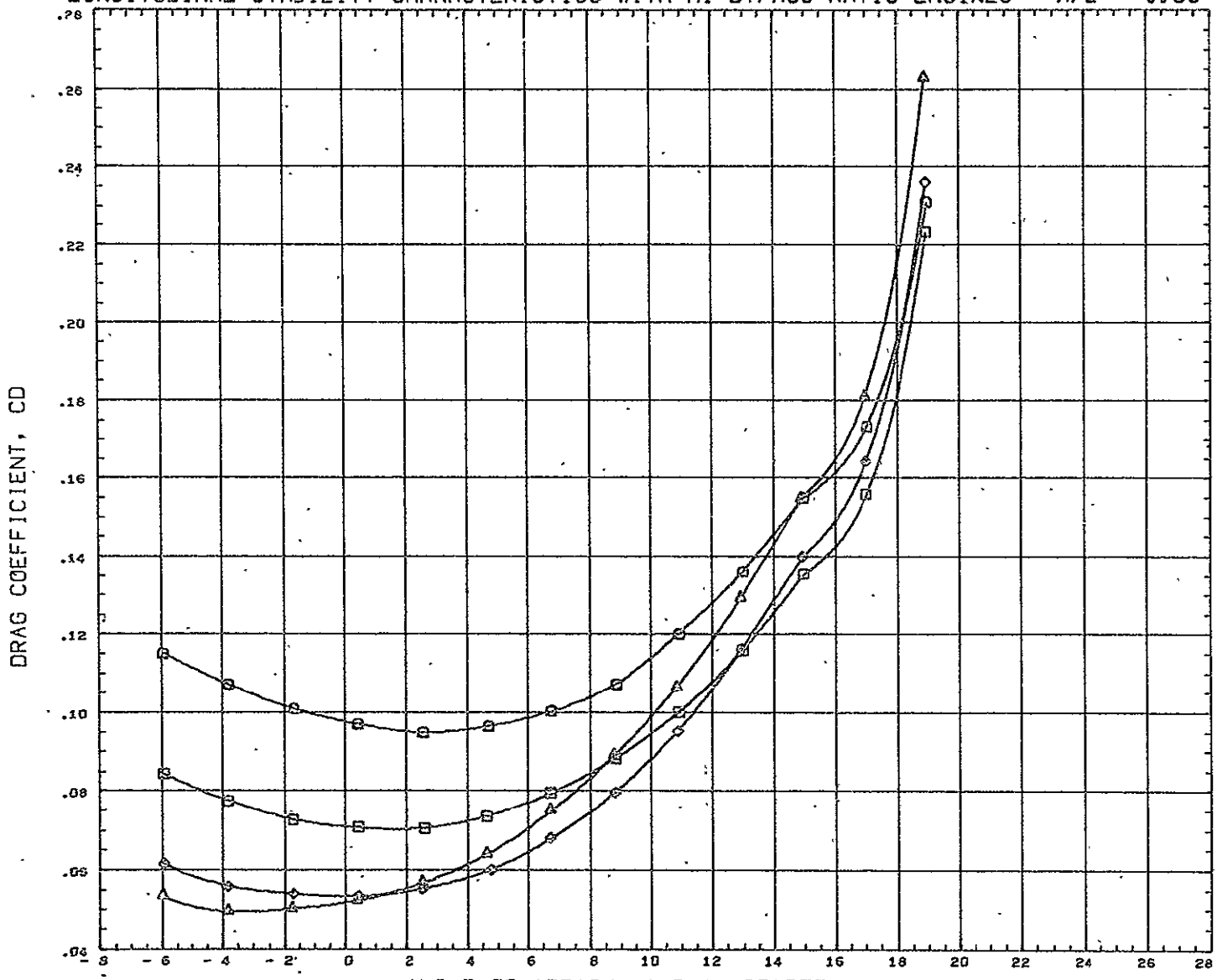


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 20.000	RUDDER	0.000	FLAPS	0.000
◇	- 10.000	SPOILR	0.000	ENGINE	26.000
△	0.000				

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	25.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.56

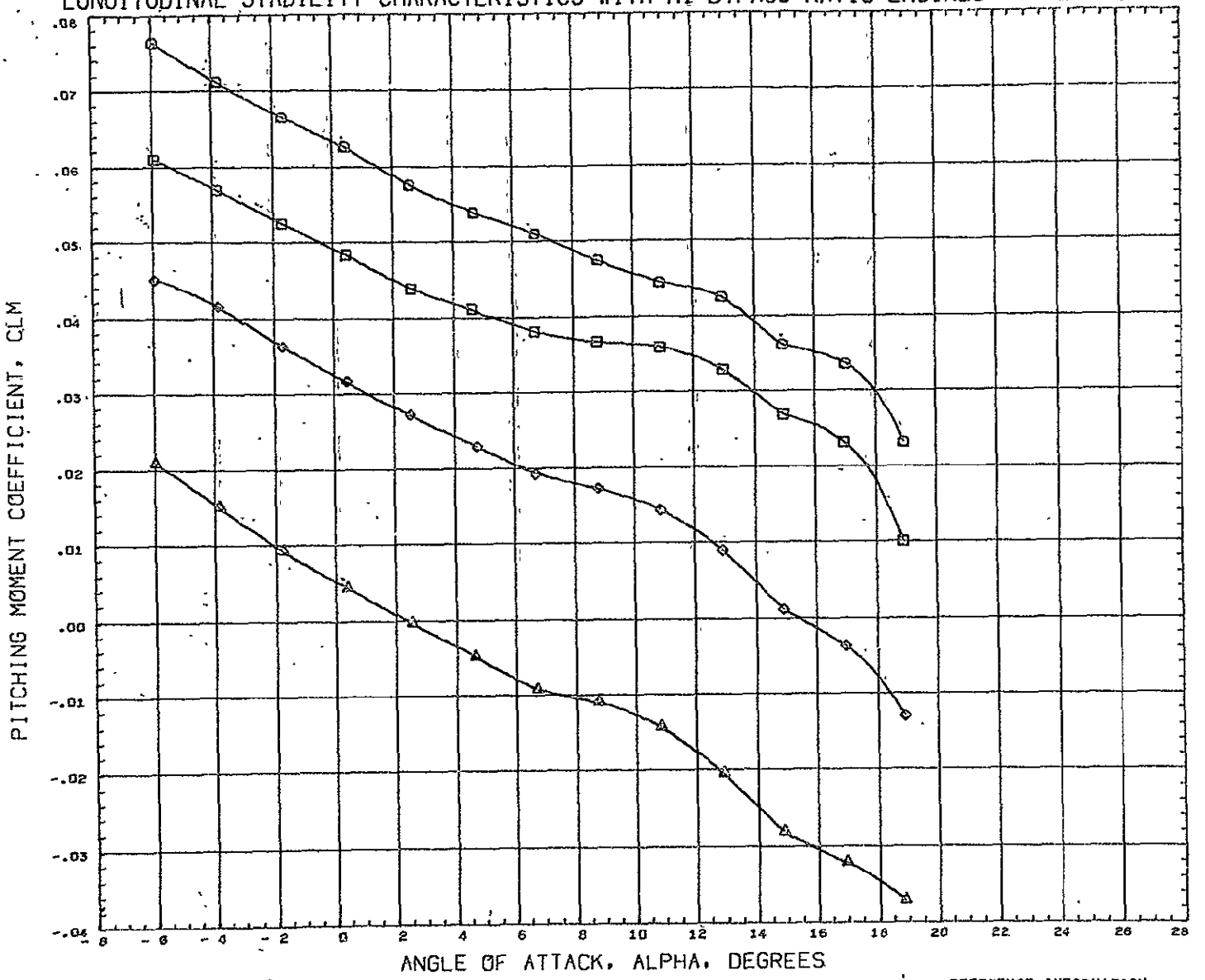


SYMBOL	ELEVTR		PARAMETRIC VALUES		
□	- 30.000	MACH	0.259	BETA	0.000
□	- 20.000	RUDDER	0.000	FLAPS	0.000
◇	- 10.000	SPOILR	0.000	ENGINE	26.000
△	0.000				

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	25.3800	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.60



SYMBOL	ELEVTR
○	- 30.000
□	- 20.000
◇	- 10.000
△	0.000

PARAMETRIC VALUES

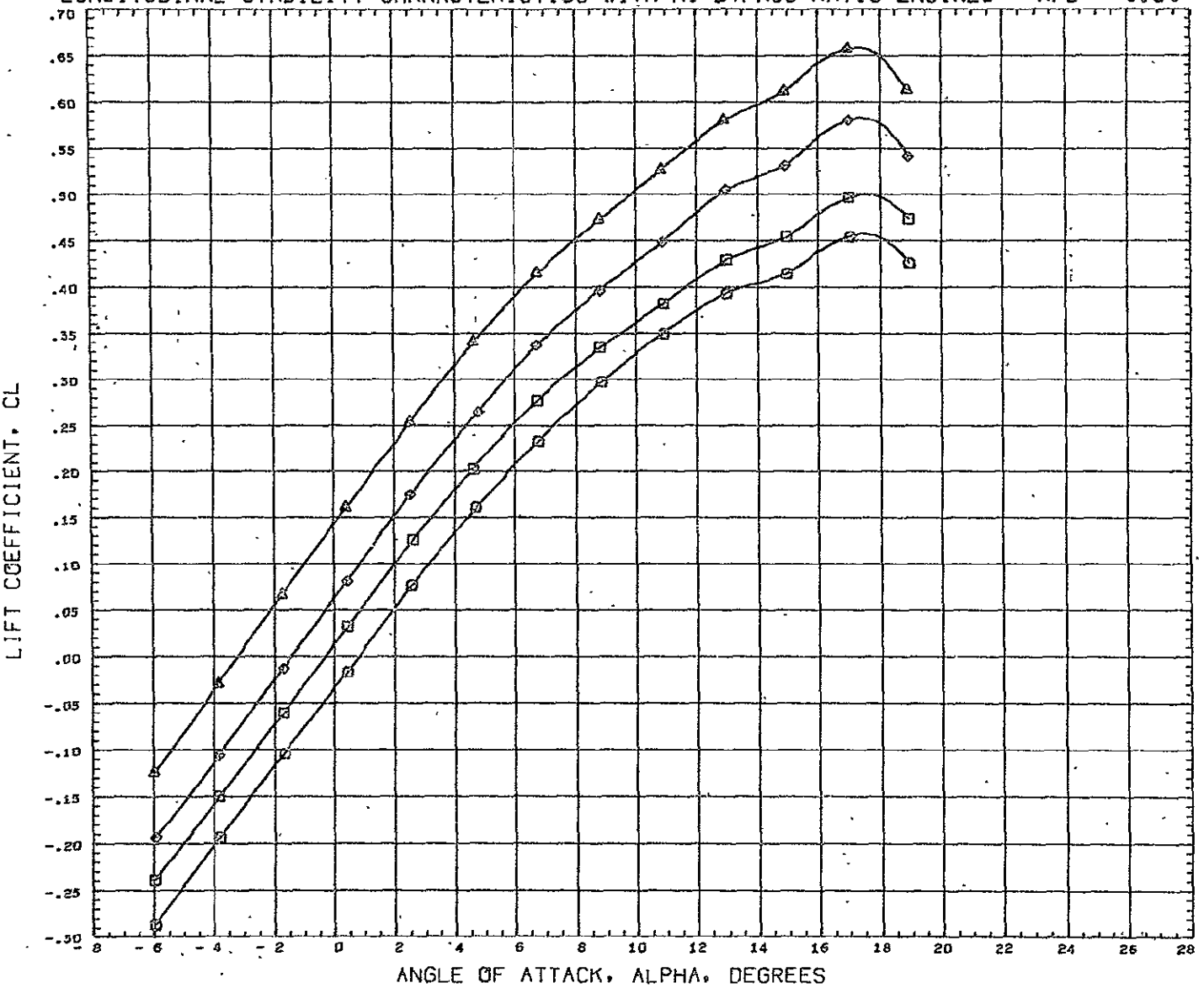
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	26.000

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

DATA HIST. CODE $

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.60



SYMBOL	ELEVTR
O	- 30.000
□	- 20.000
◇	- 10.000
Δ	0.000

PARAMETRIC VALUES

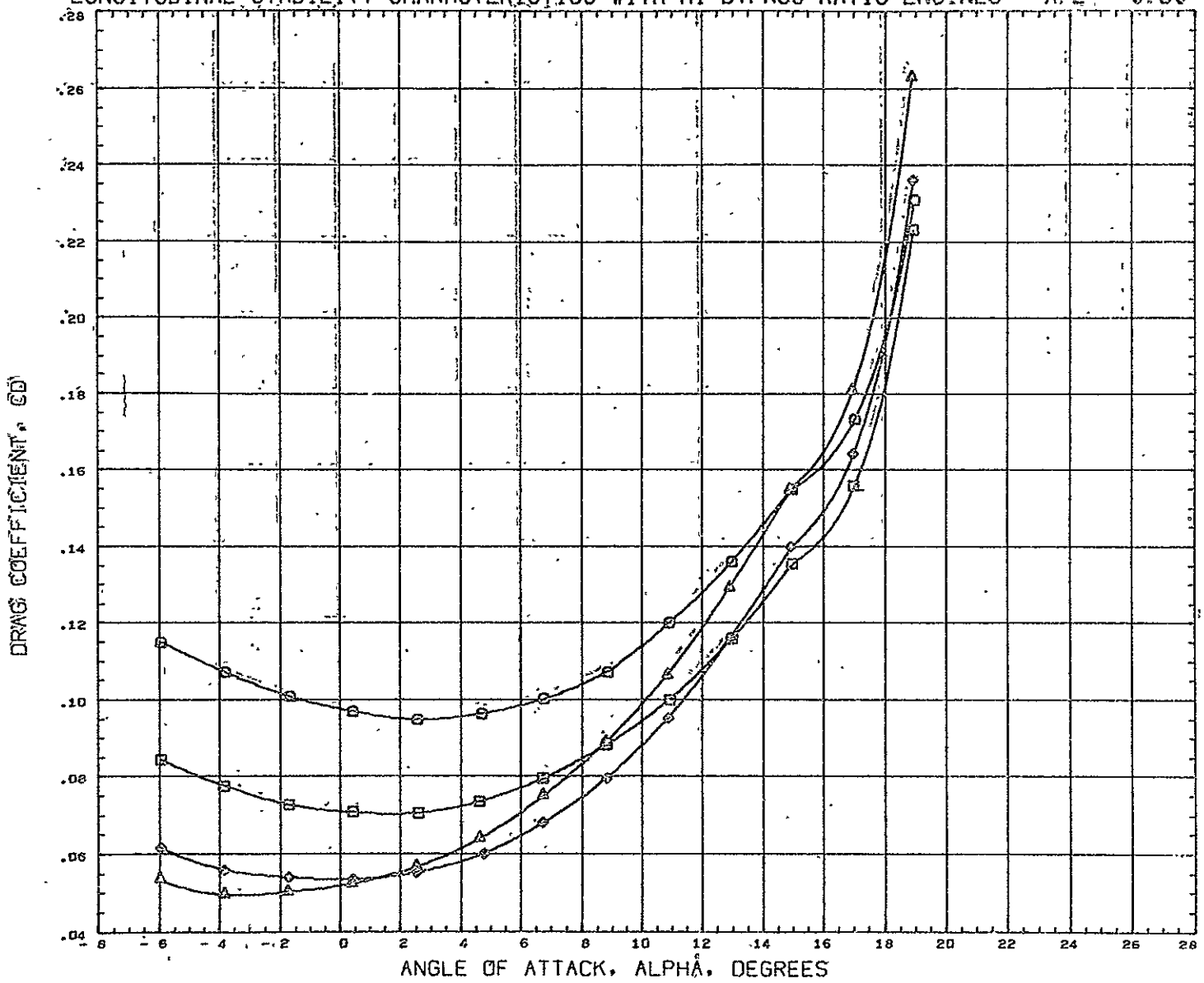
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	26.000

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.60



SYMBOL	ELEVTR
○	- 30.000
□	- 20.000
◇	- 10.000
△	0.000

PARAMETRIC VALUES

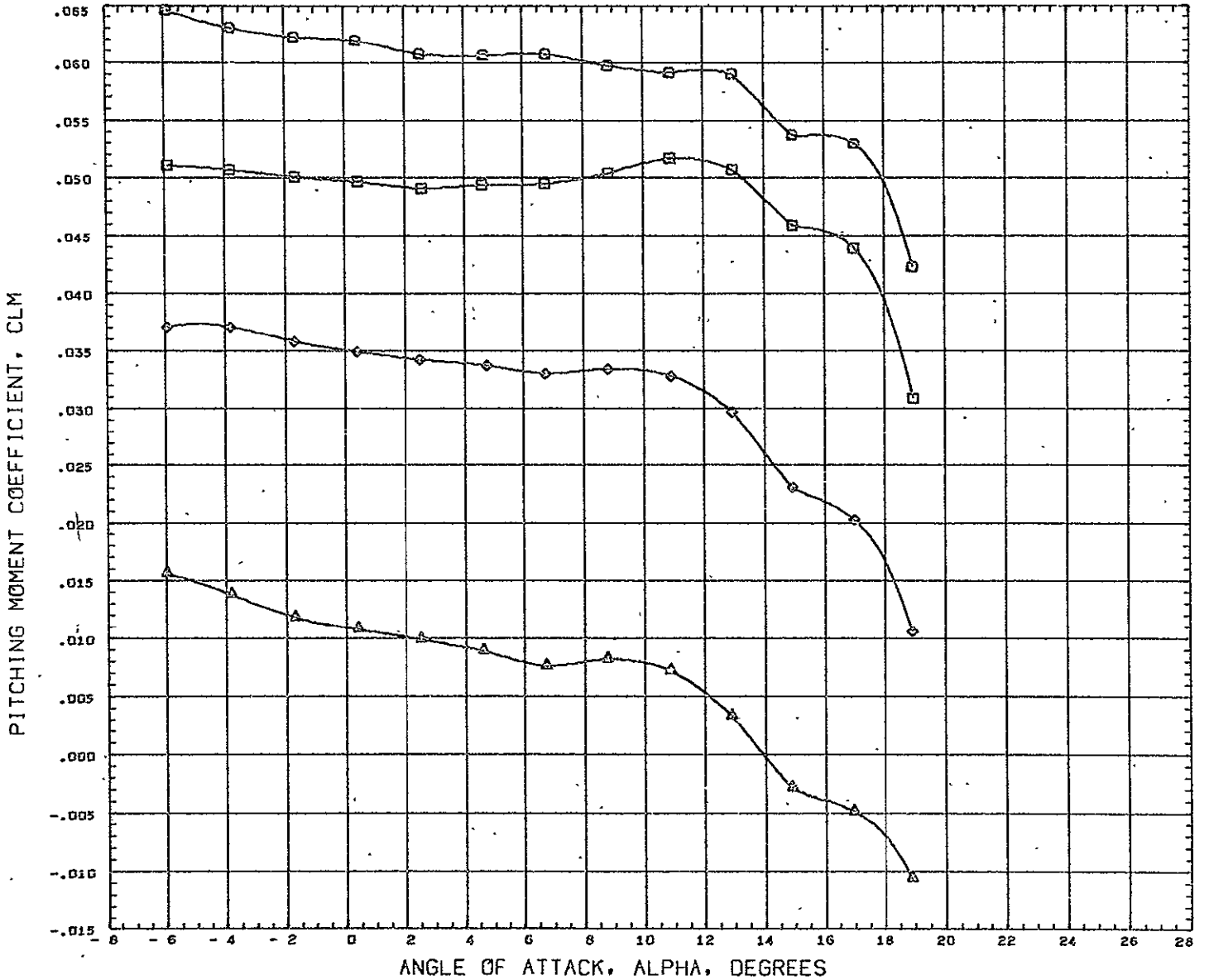
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	26.000

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.64

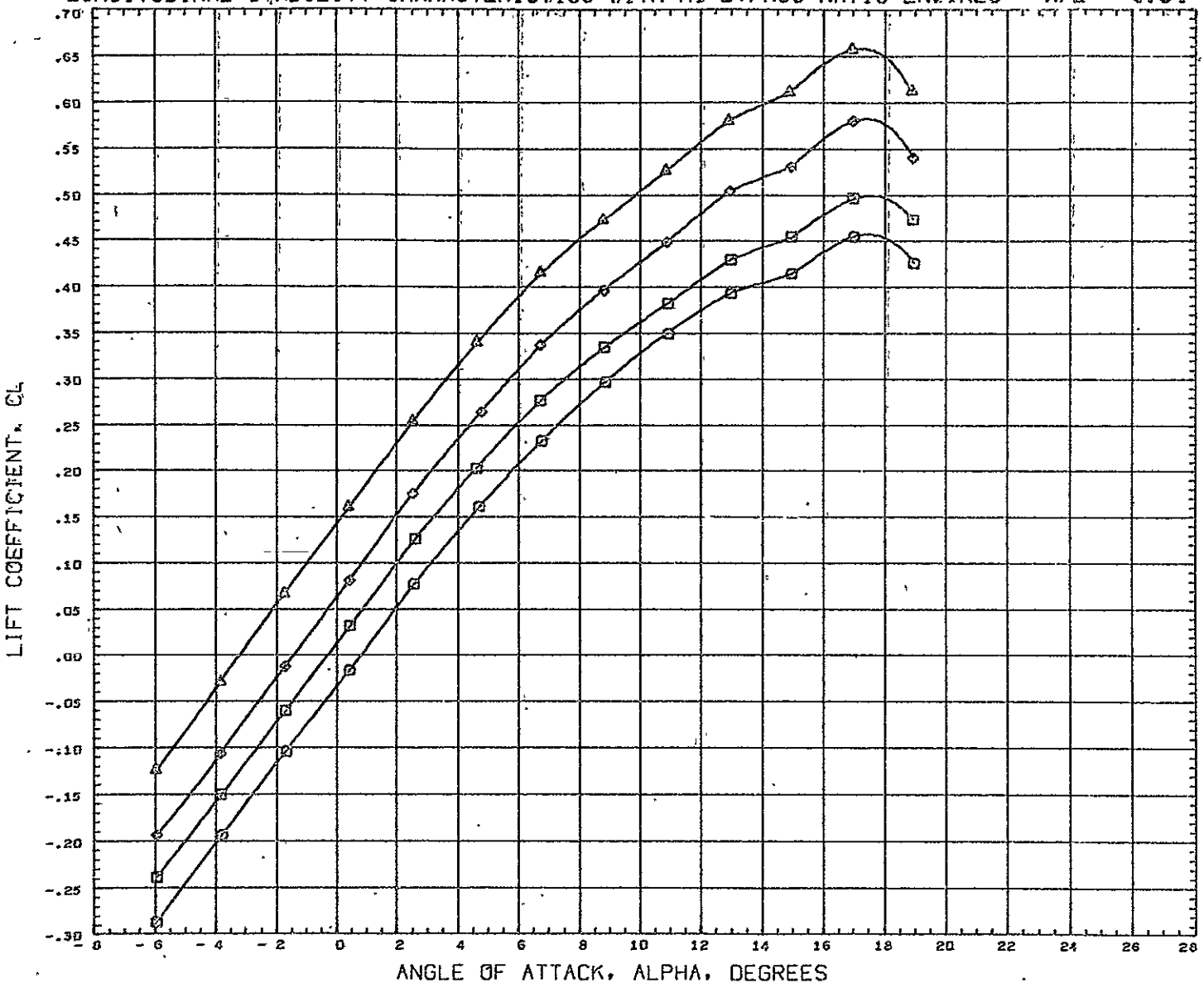


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	- 20.000	RUDDER	0.000	FLAPS	0.000
◇	- 10.000	SPOILR	0.000	ENGINE	26.000
△	0.000				

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.64



SYMBOL	ELEVTR
○	- 30.000
□	- 20.000
◇	- 10.000
△	0.000

PARAMETRIC VALUES

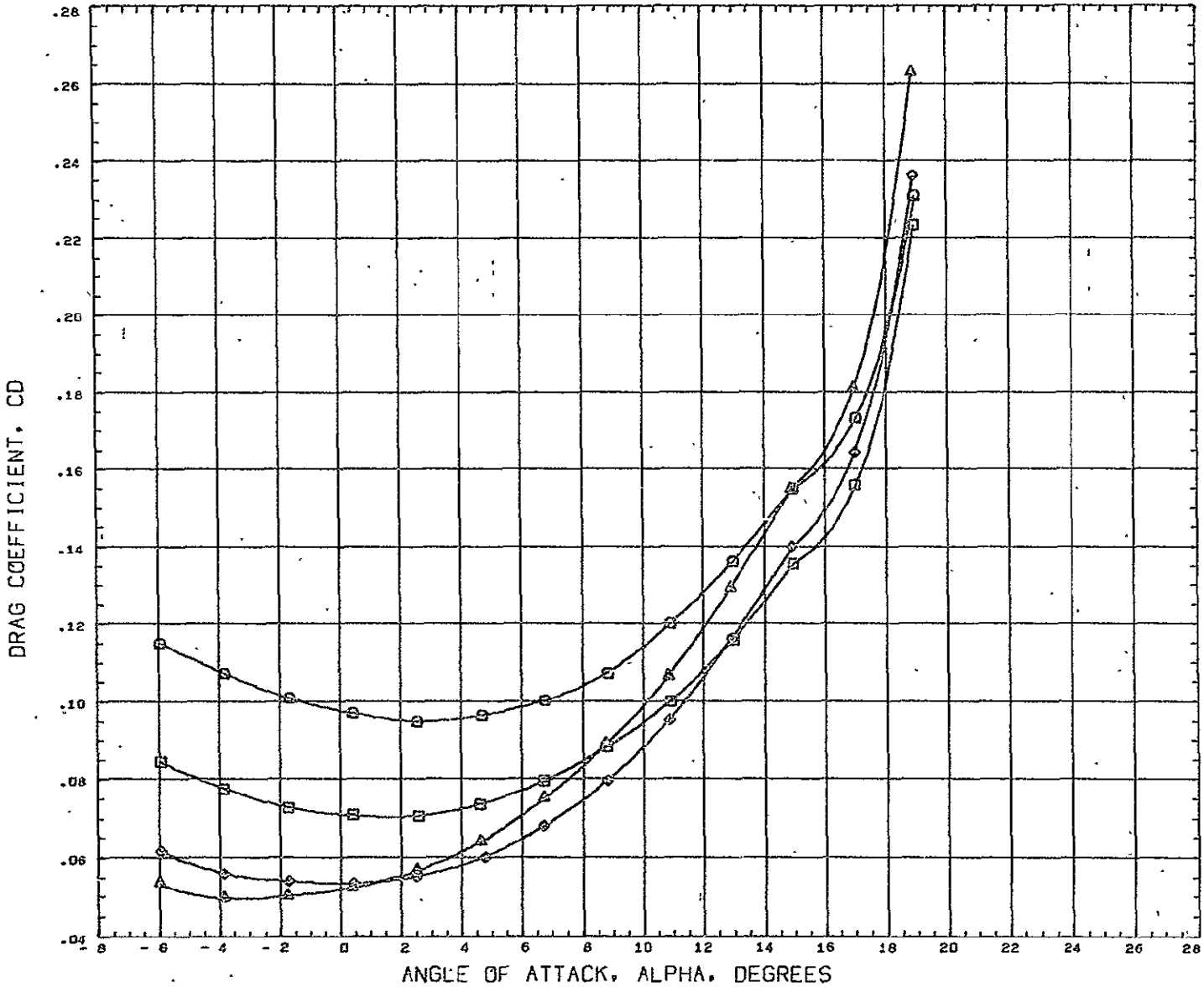
MACH	0.259	BETA	0.000
RUDDER	0.000	FLAPS	0.000
SPOILR	0.000	ENGINE	26.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = .0.64

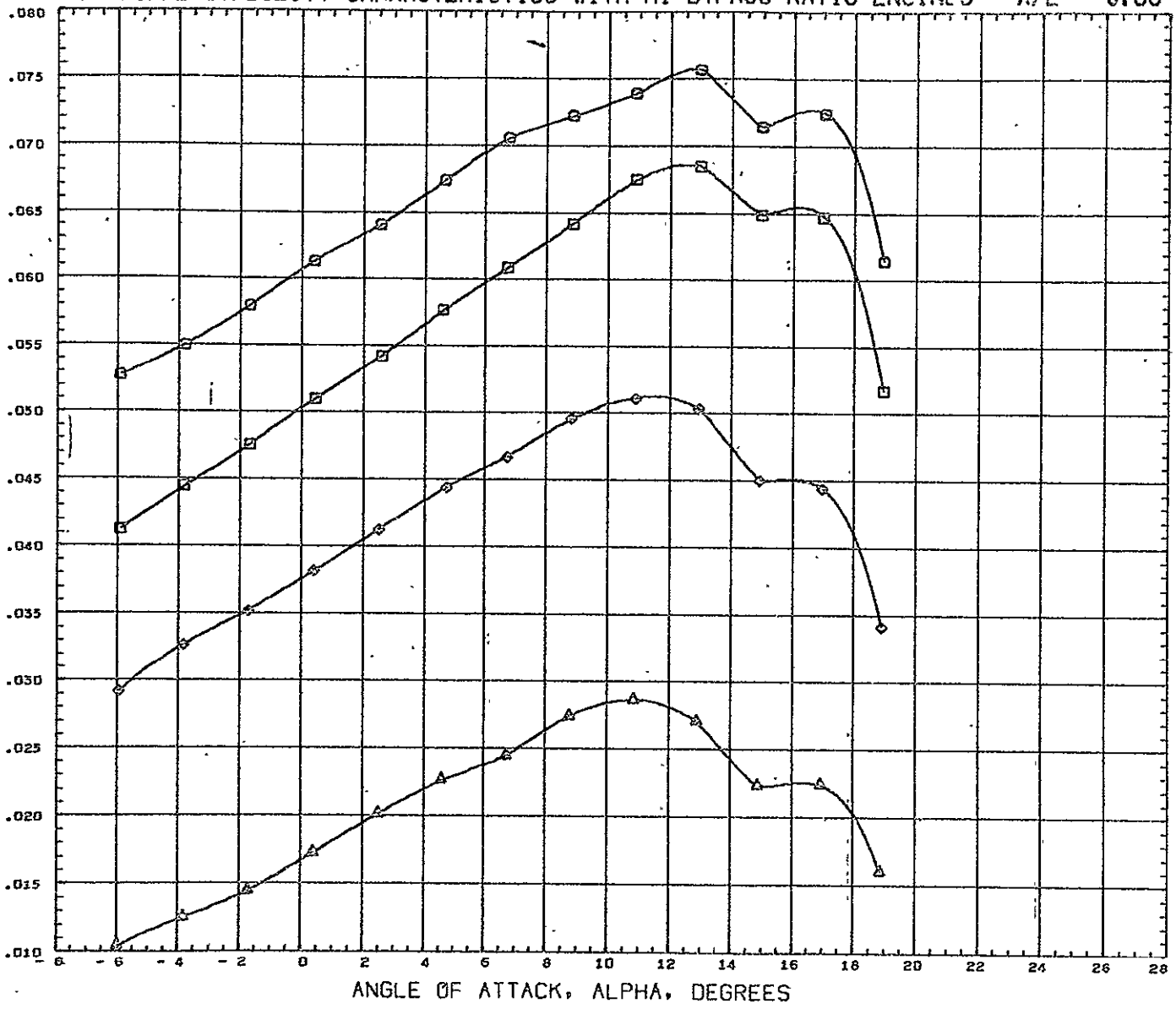


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	- 20.000	RUDDER	0.000	FLAPS	0.000
◇	- 10.000	SPOILR	0.000	ENGINE	26.000
△	0.000				

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.68

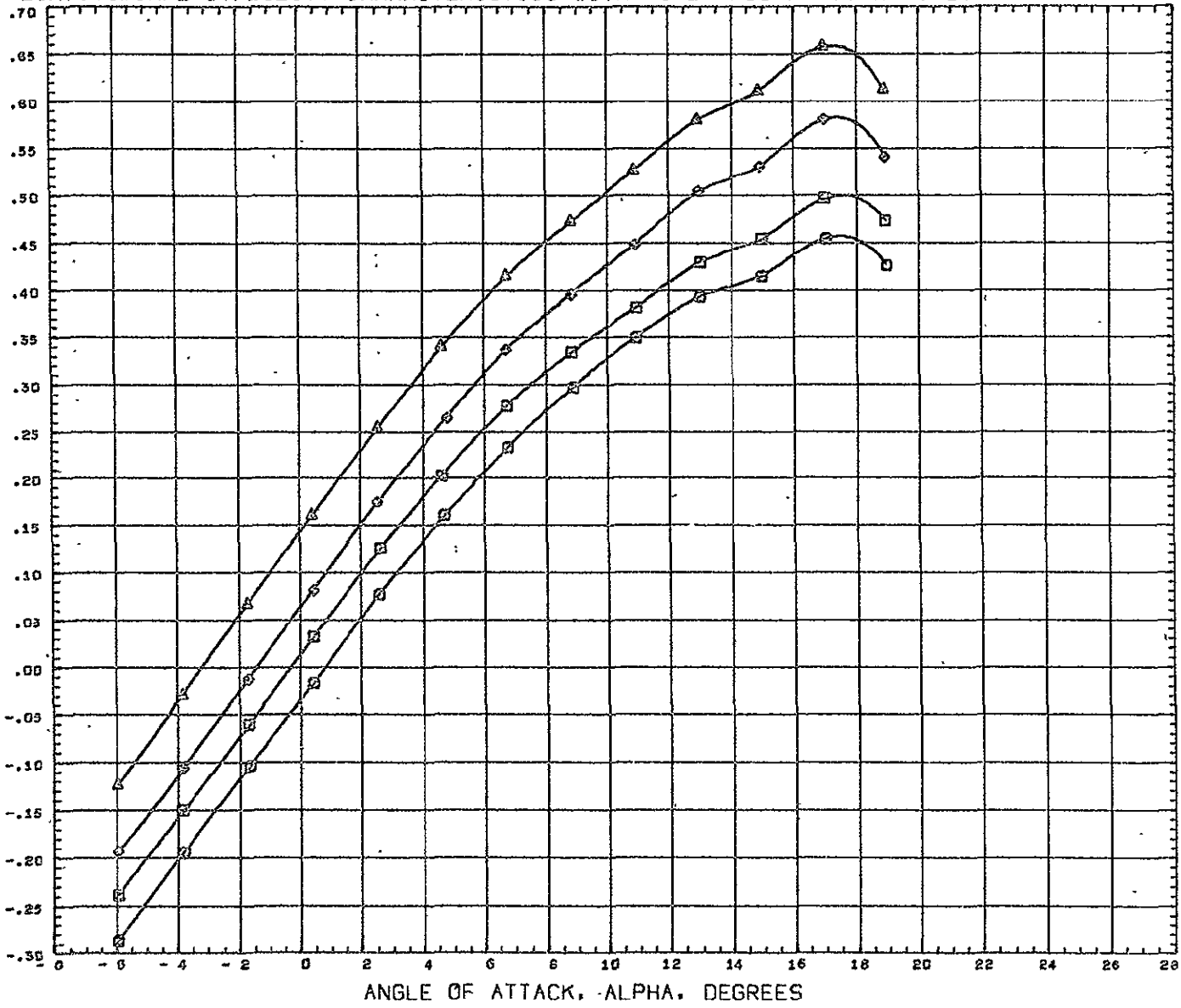


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	- 20.000	RUDDER	0.000	FLAPS	0.000
◇	- 10.000	SPOILR	0.000	ENGINE	26.000
△	0.000				

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	315.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.68

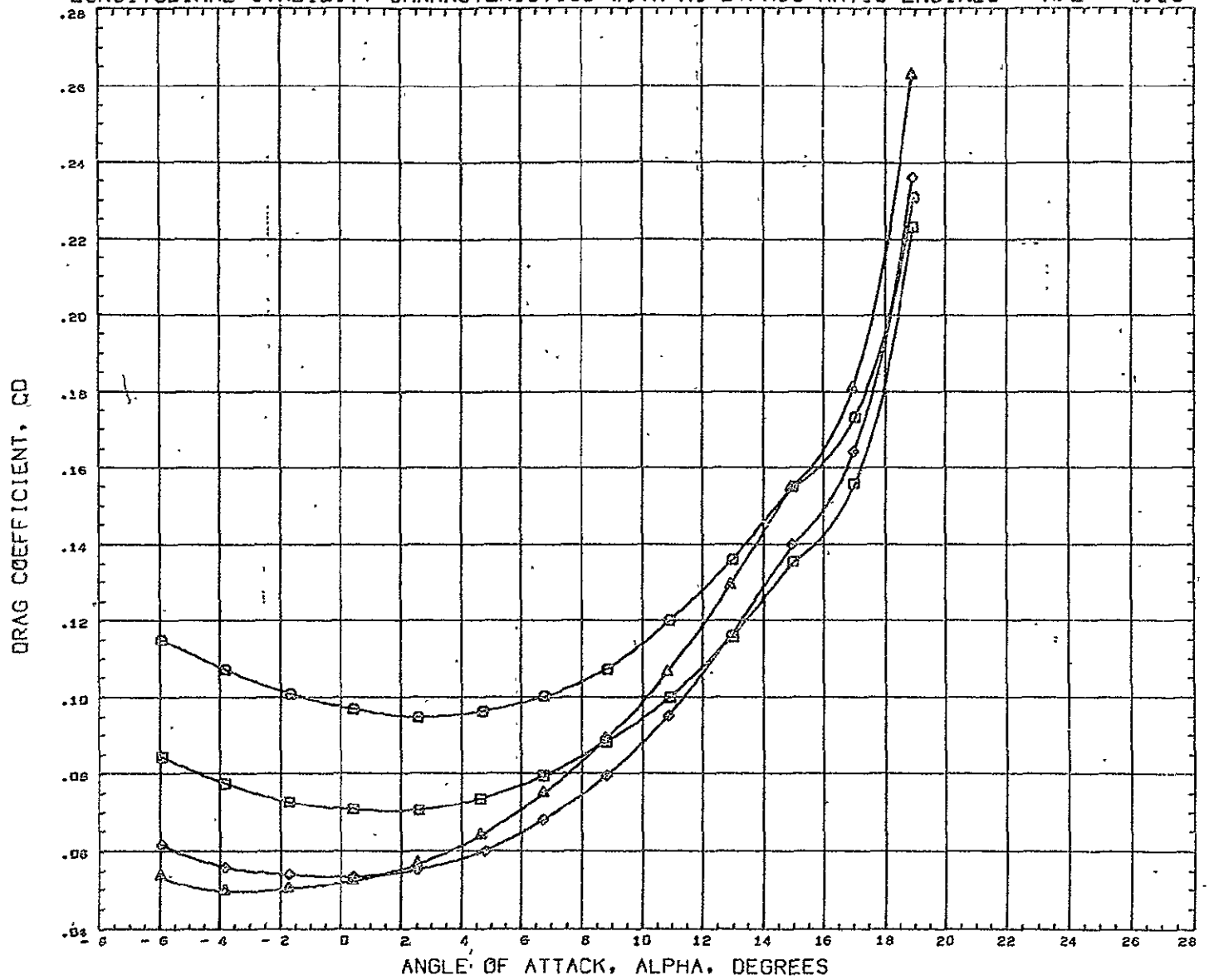


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 20.000	RUDDER	0.000	FLAPS	0.000
◇	- 10.000	SPOILR	0.000	ENGINE	26.000
△	0.000				

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.68

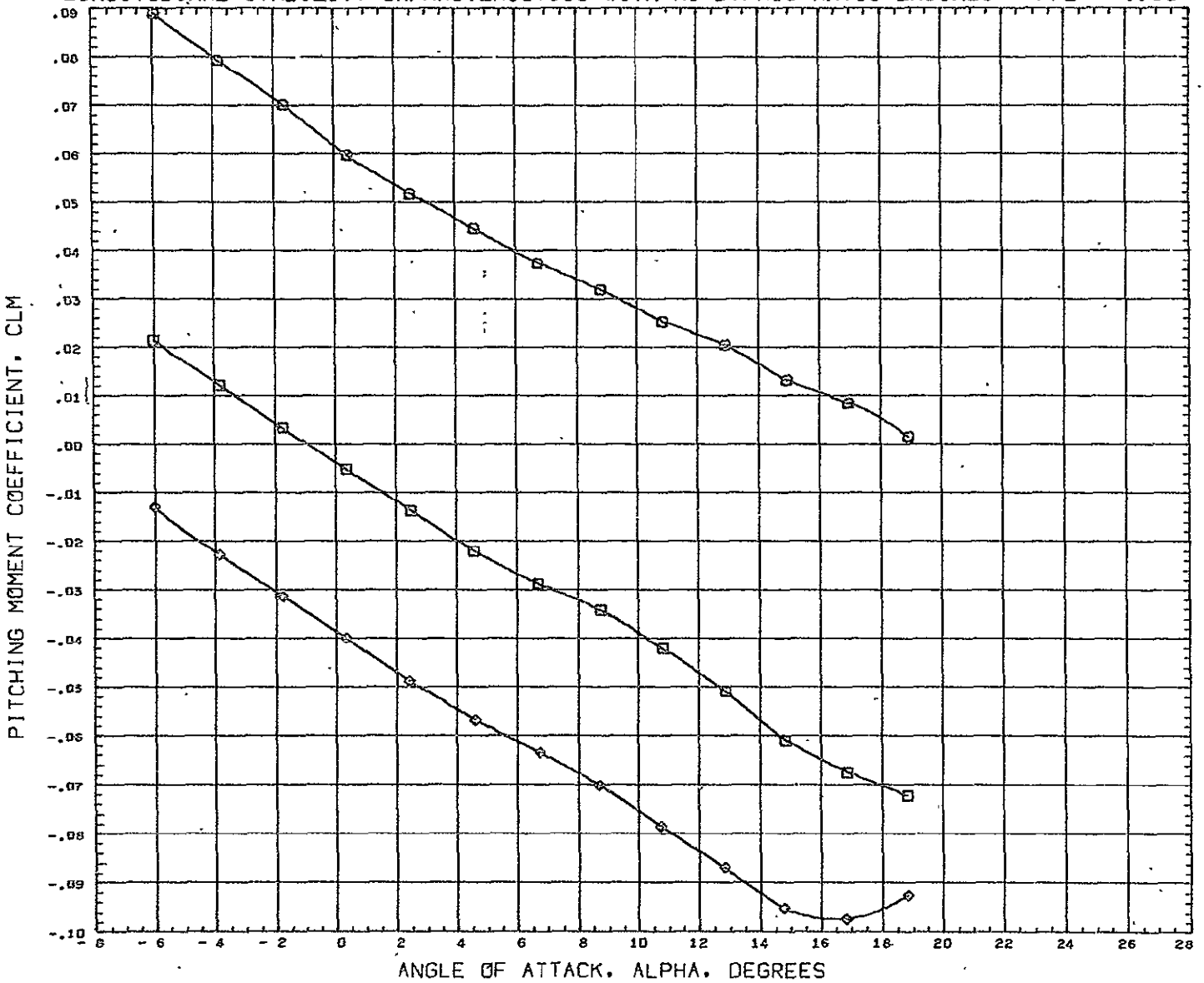


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	- 20.000	RUDDER	0.000	FLAPS	0.000
◇	- 10.000	SPOILR	0.000	ENGINE	26.000
△	0.000				

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.56

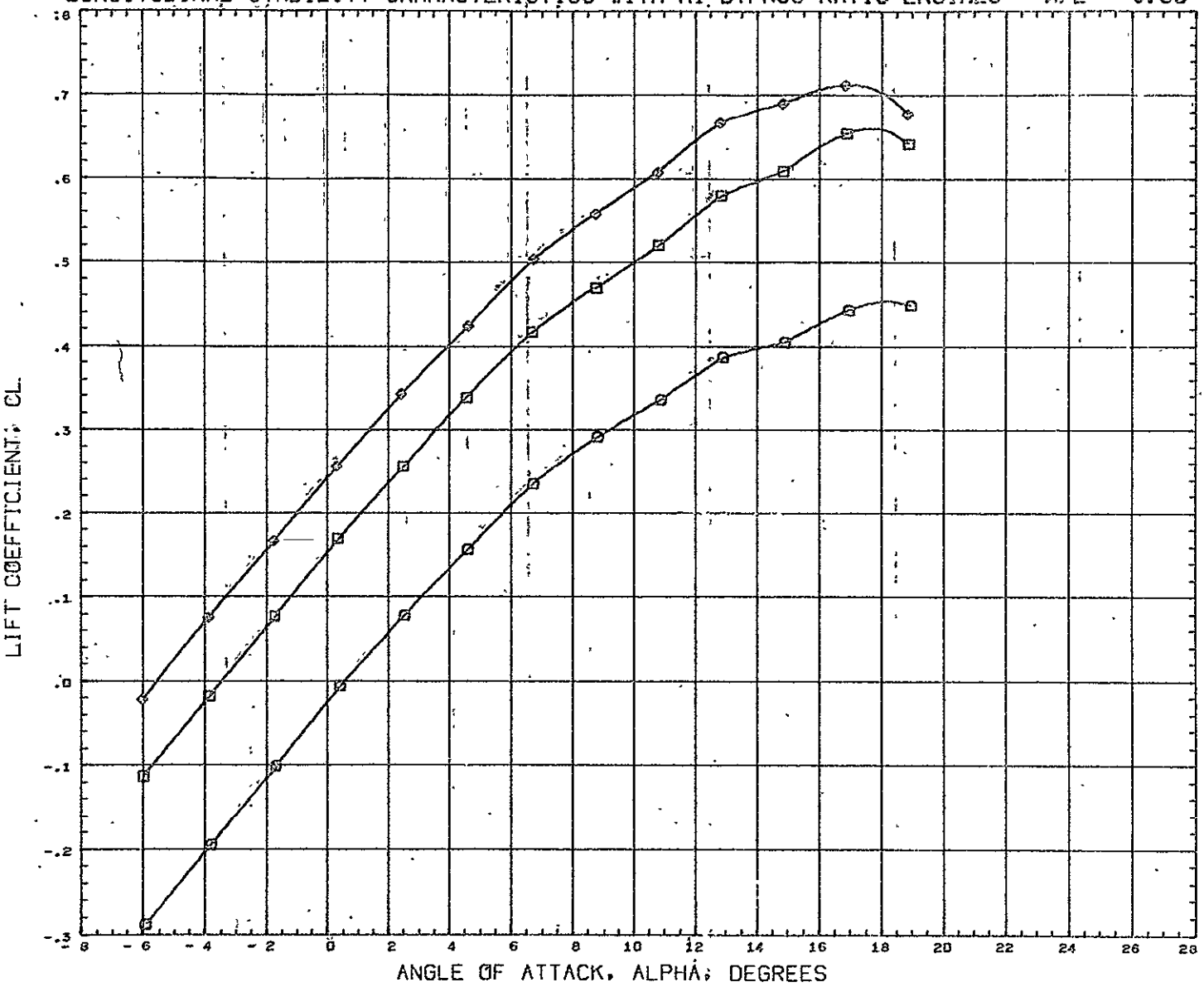


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	-30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	25.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.56



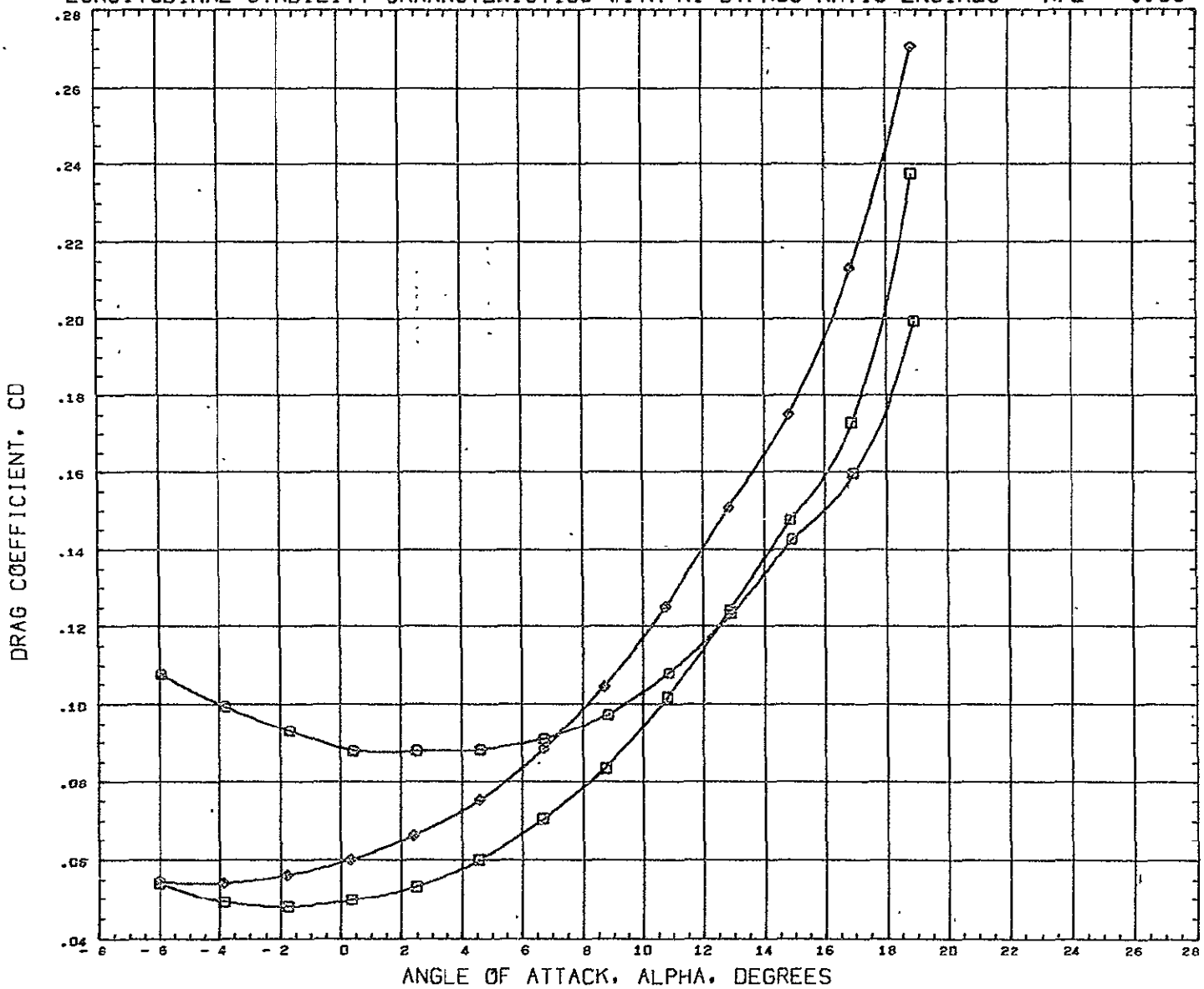
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	-30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	25.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.56

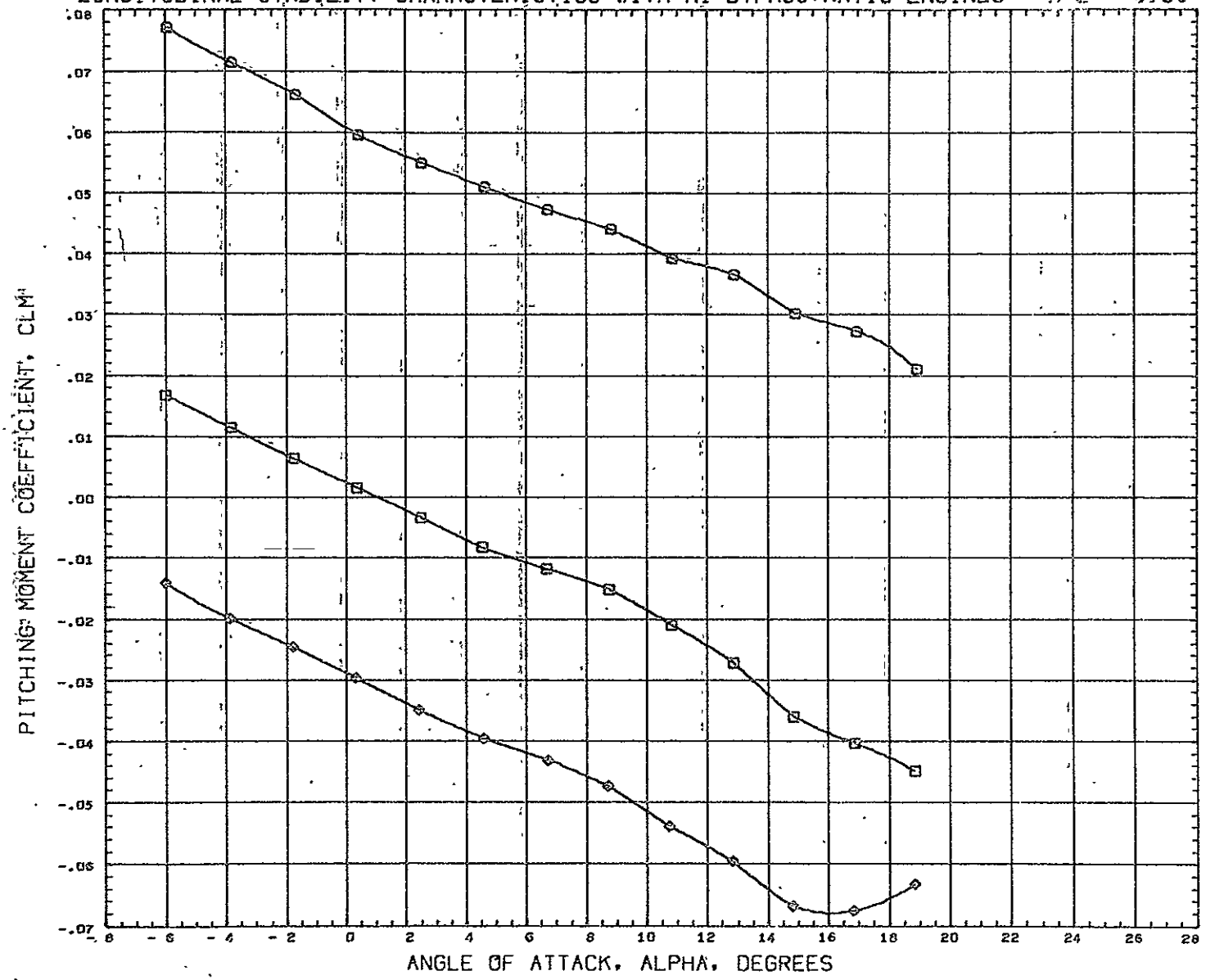


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	25.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - XCL = 0.60



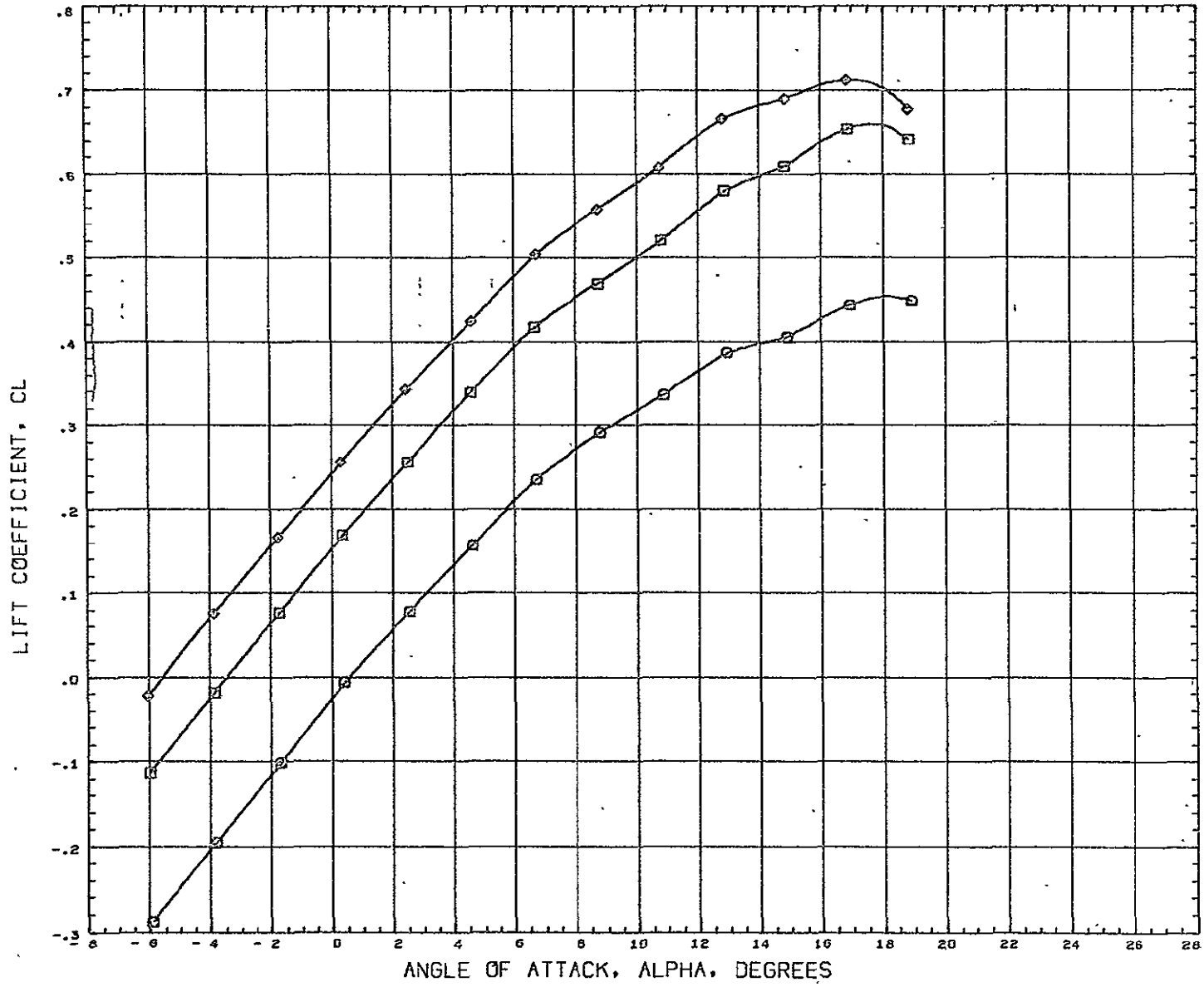
SYMBOL	ELEVTR		PARAMETRIC VALUES		
□	-30.000	MACH	0.259	BETA	0.000
◇□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.60



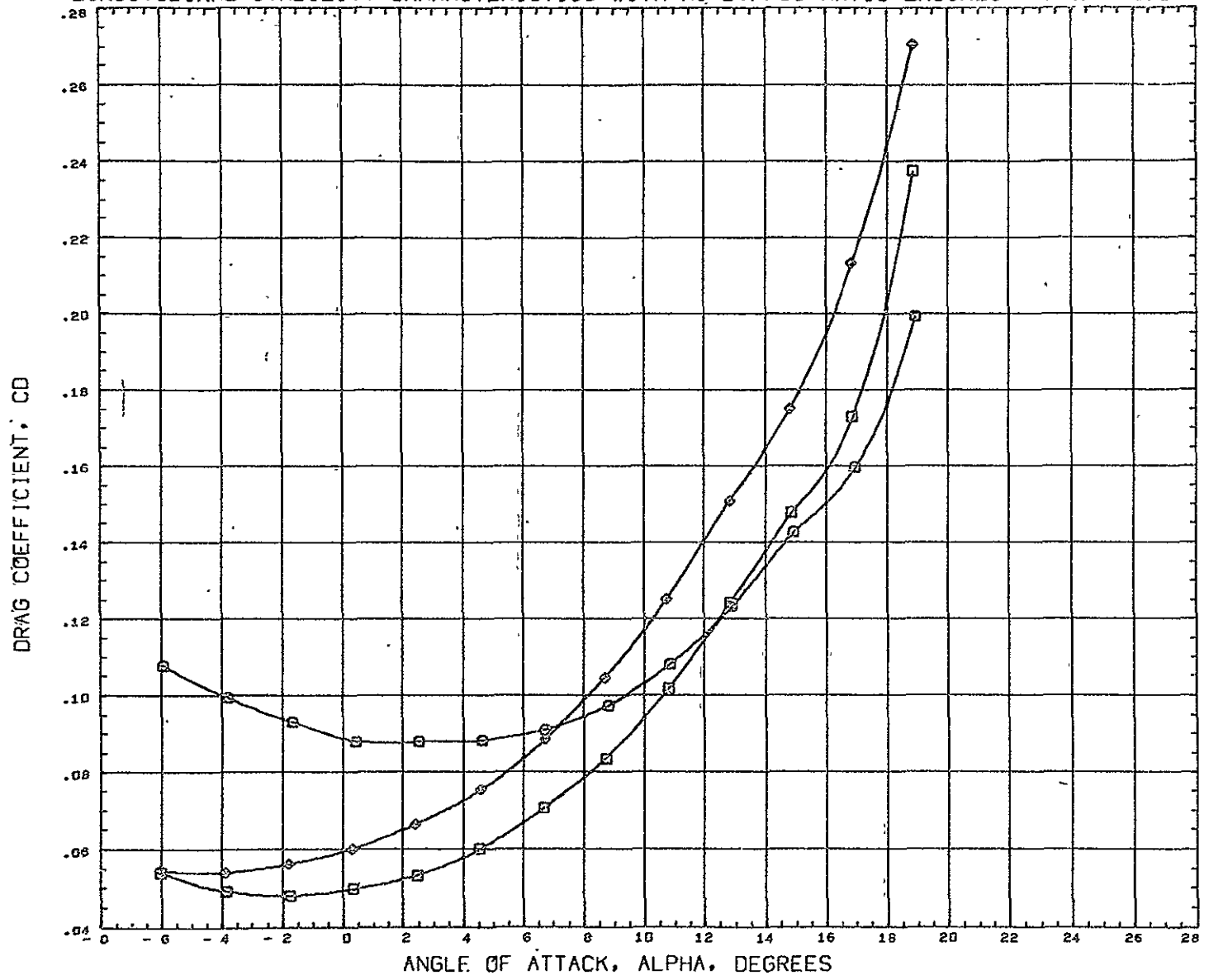
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.60

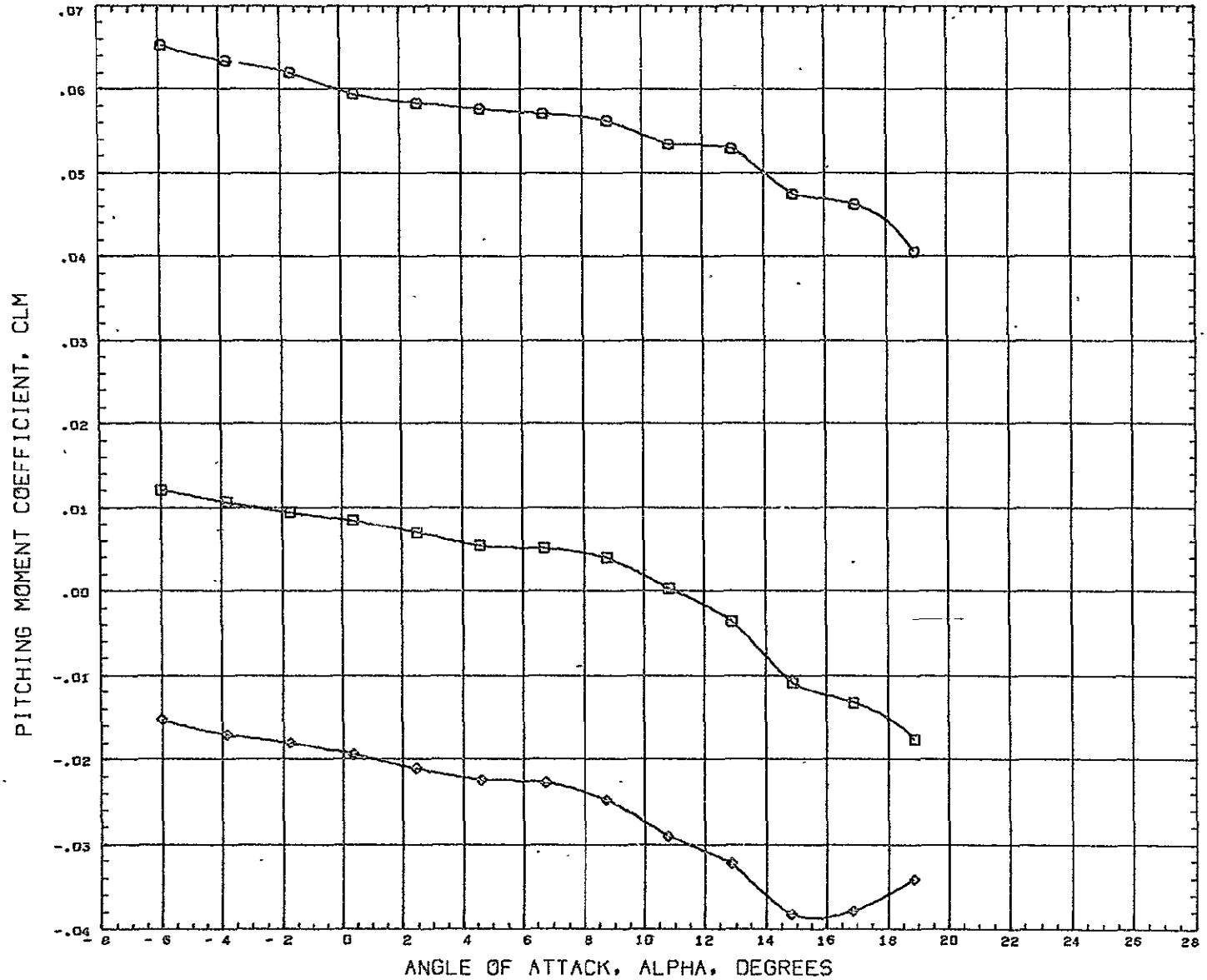


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	-30.000	MACH	0.259	BETA.	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.64

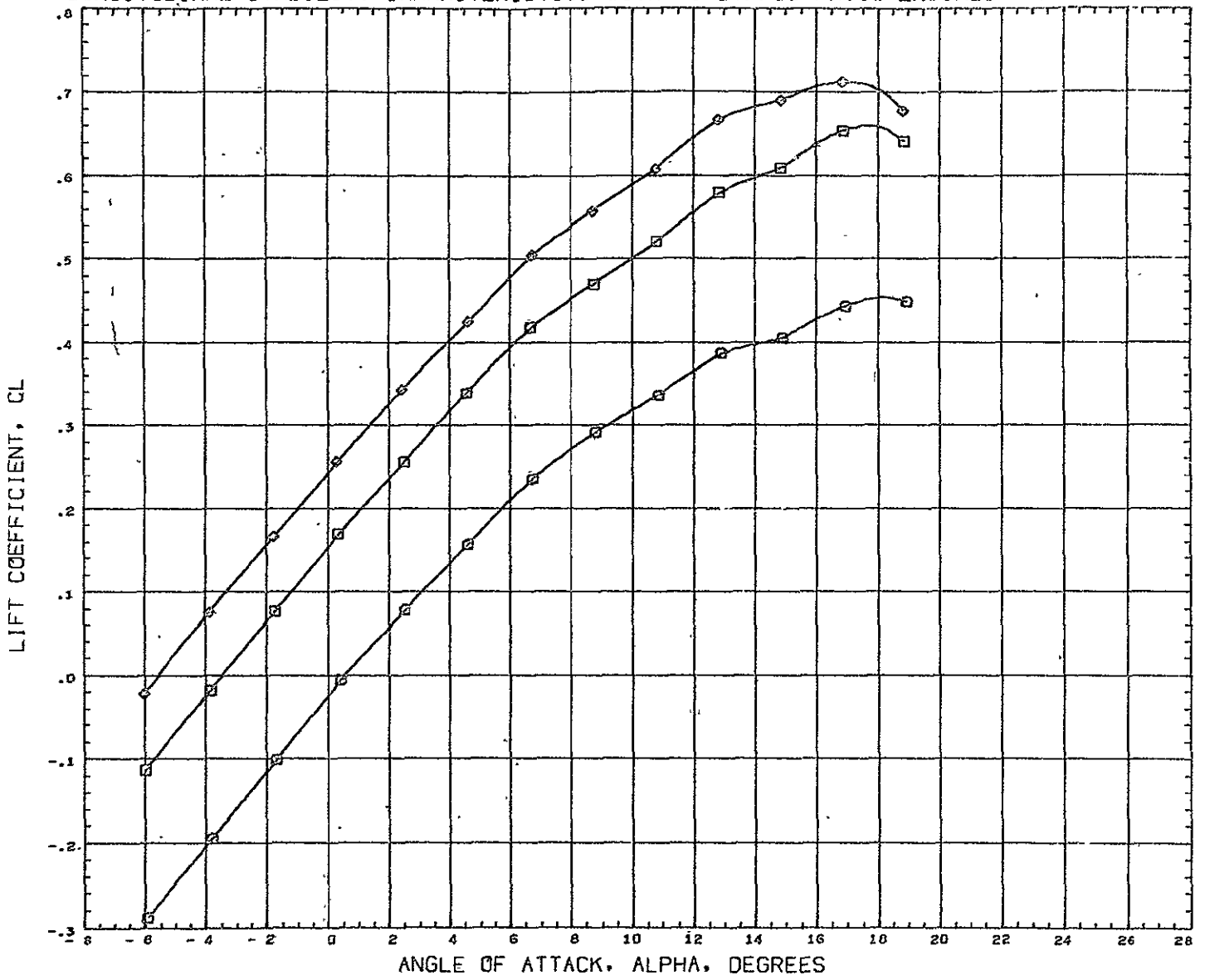


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	-30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.64

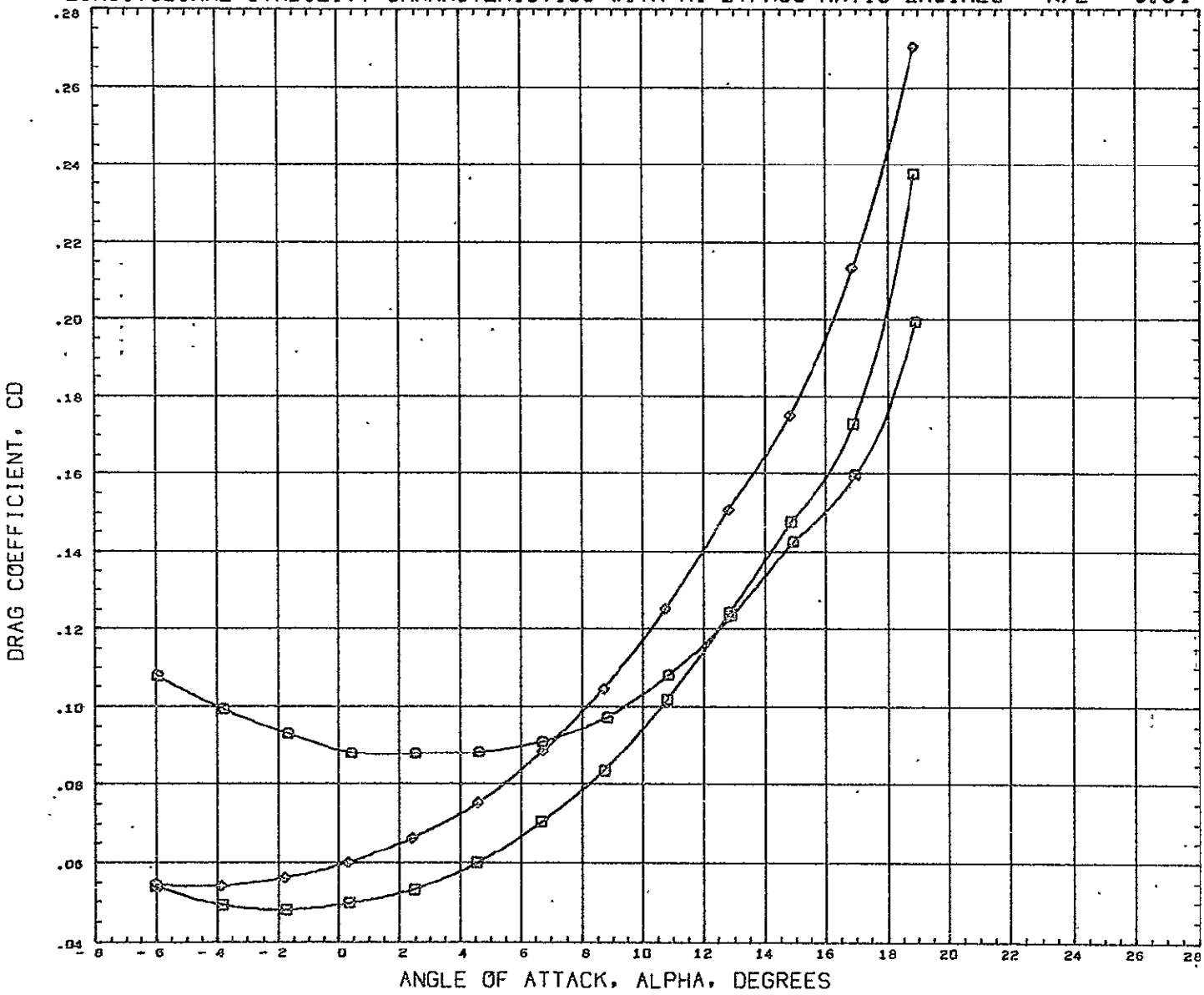


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.64



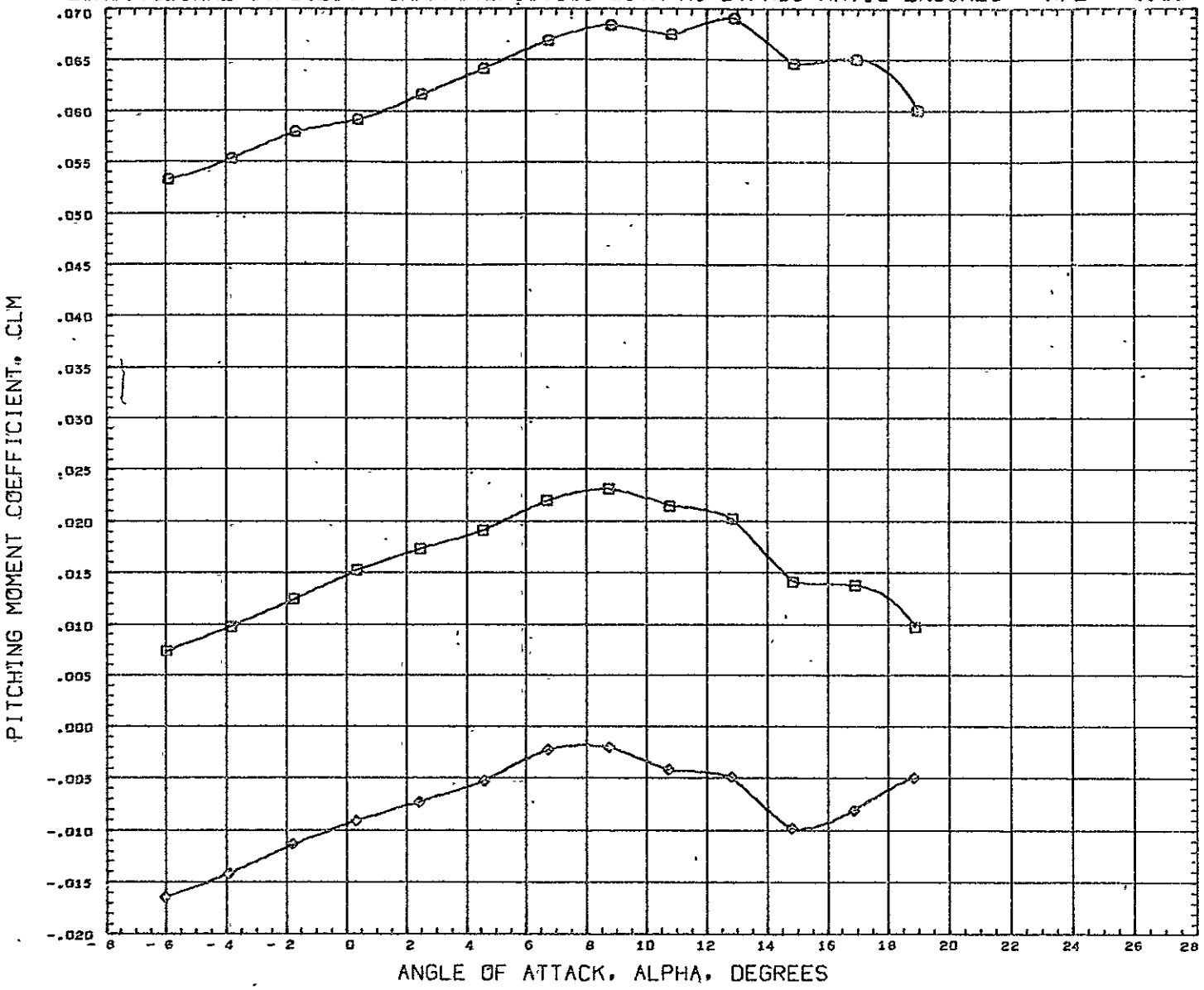
SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.68

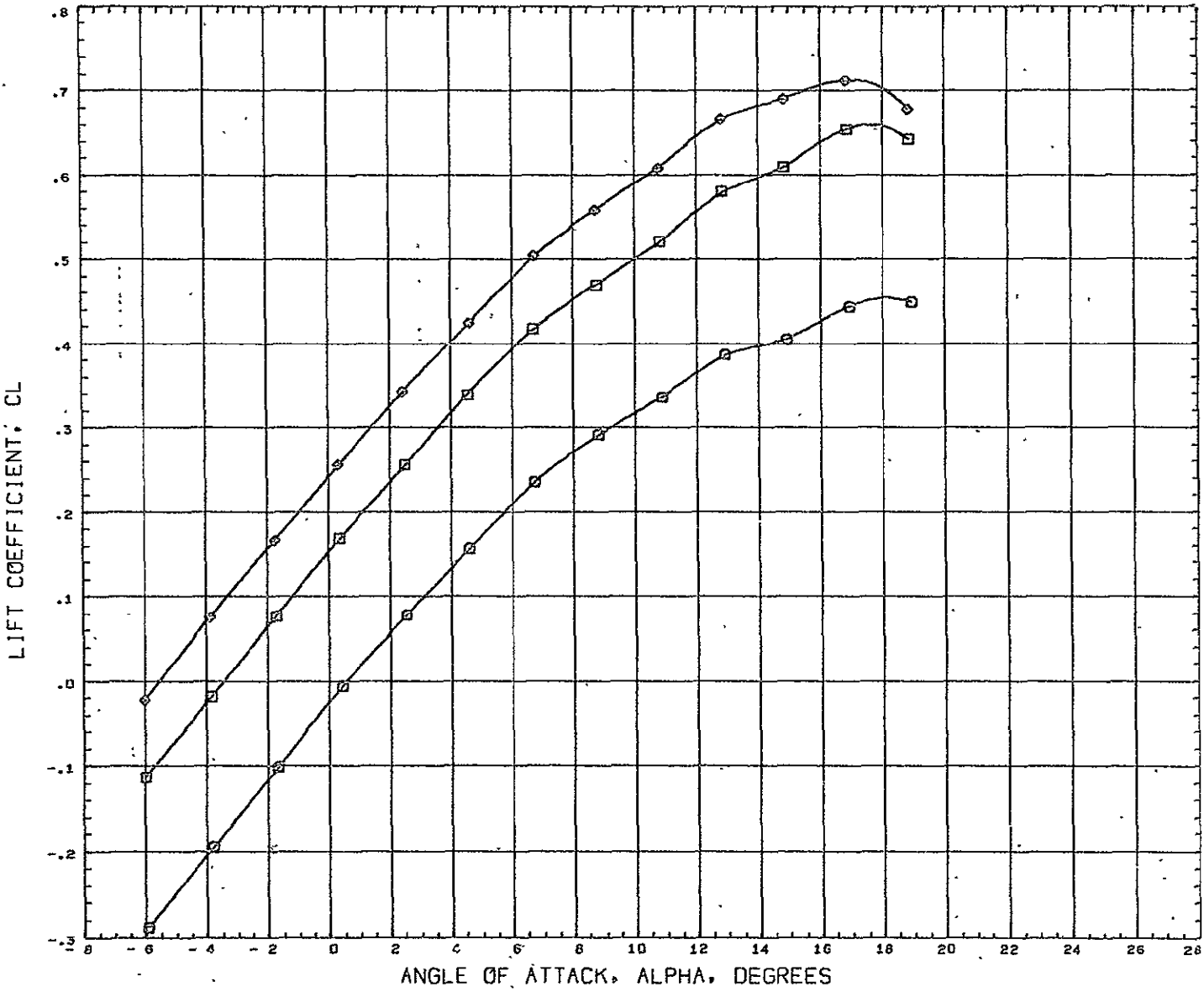


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	59.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.68

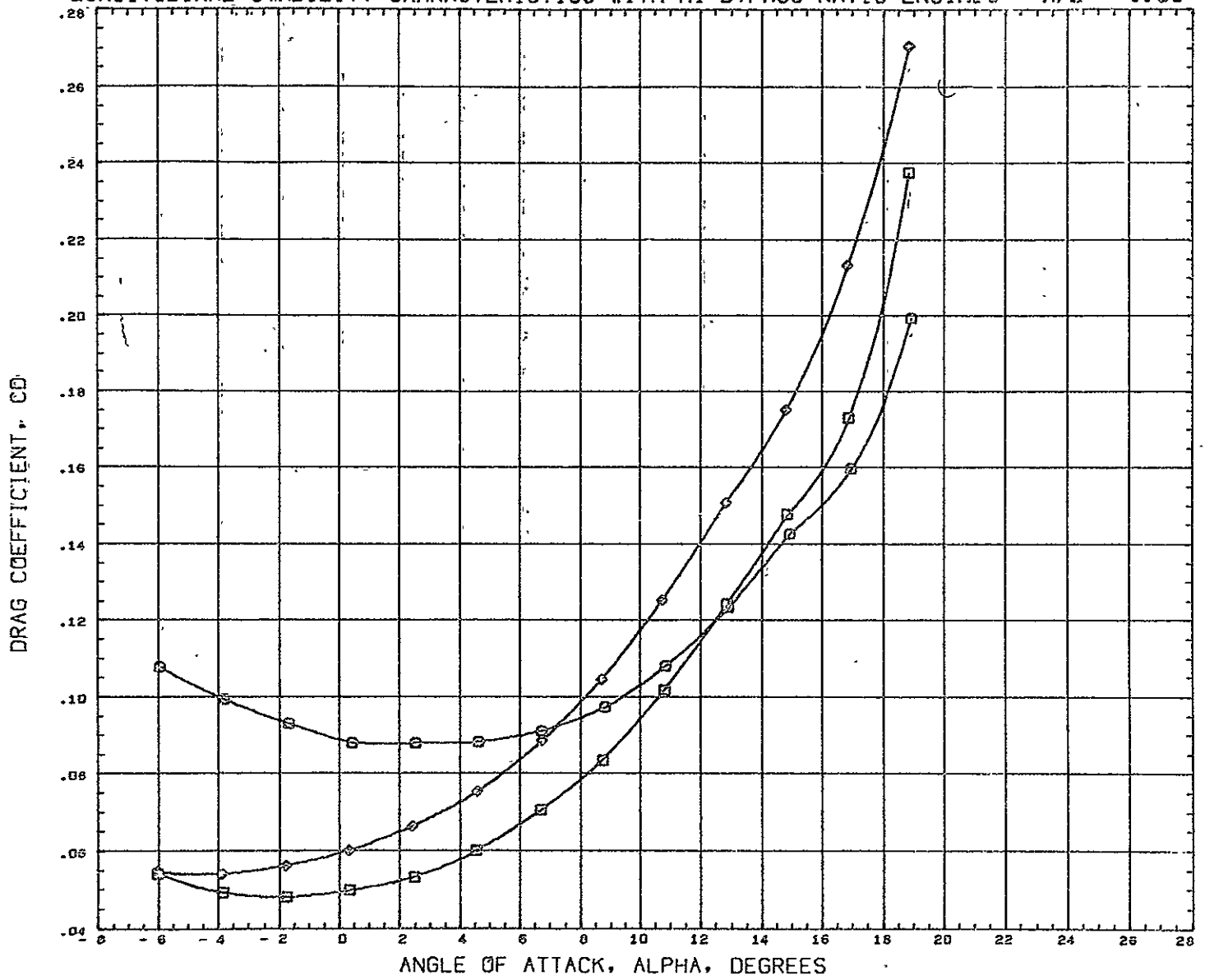


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH HI-BYPASS RATIO ENGINES - X/L = 0.68

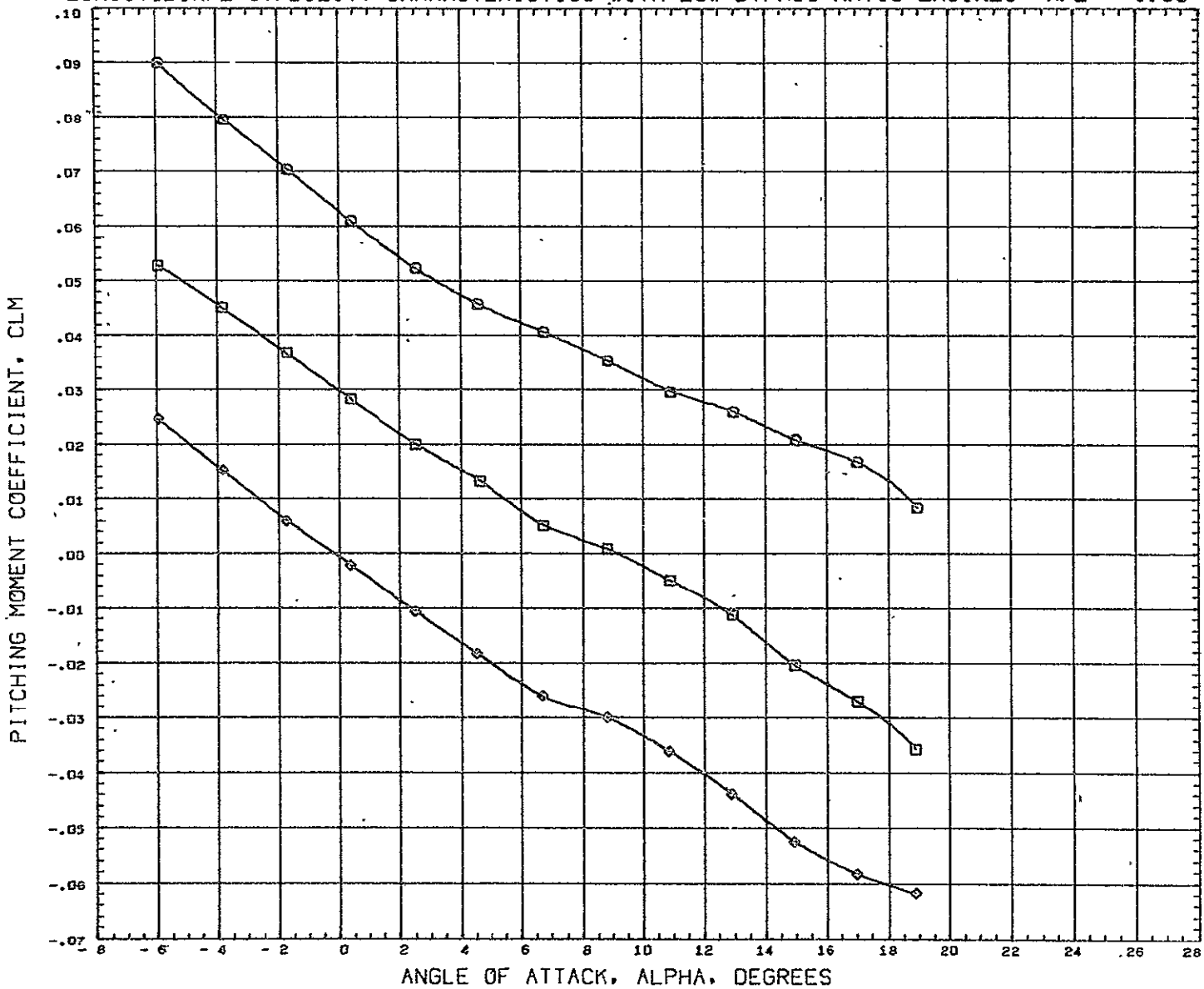


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	28.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.56

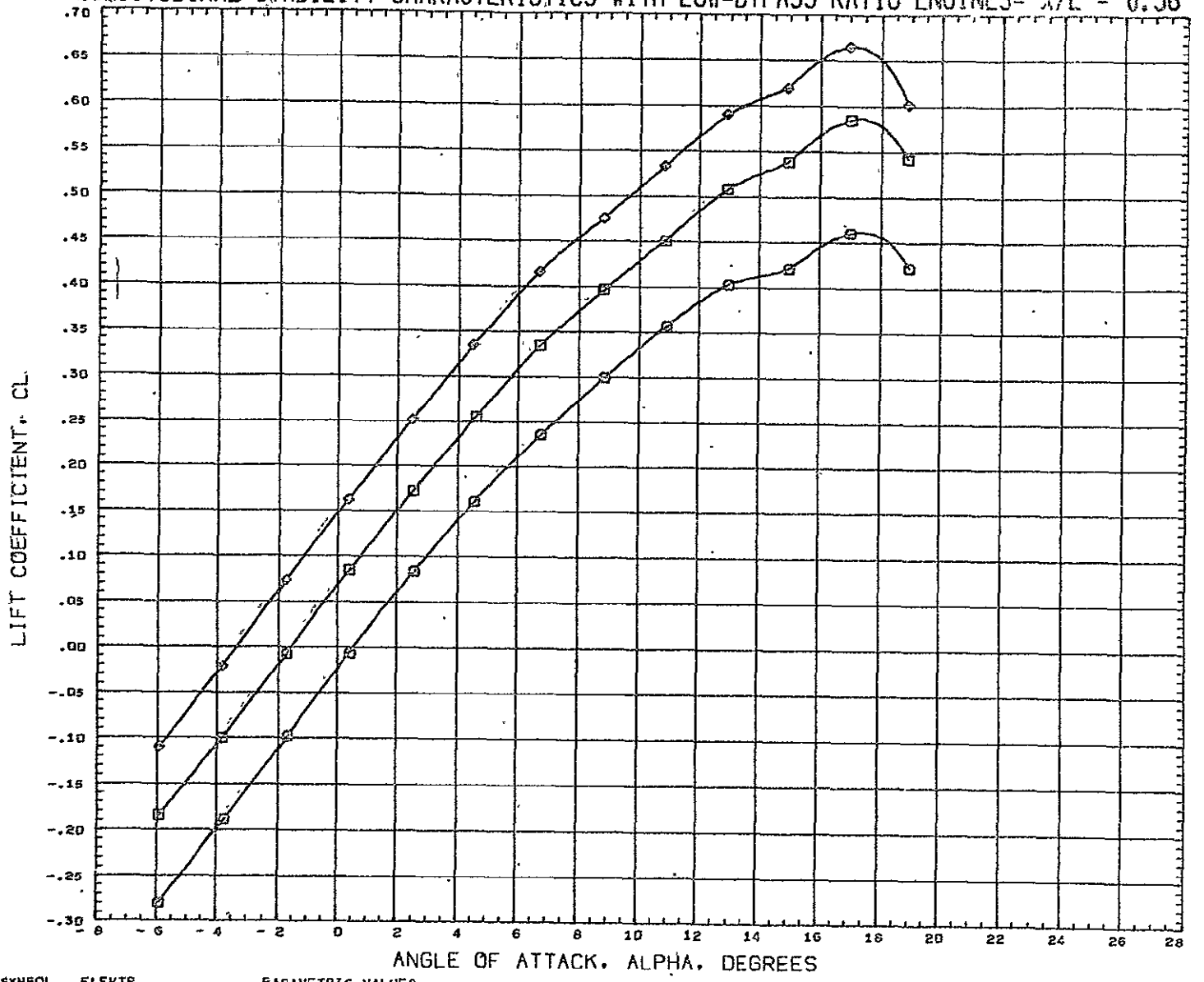


SYMBOL	ELEVTR	PARAMETRIC VALUES			
□	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	25.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.56



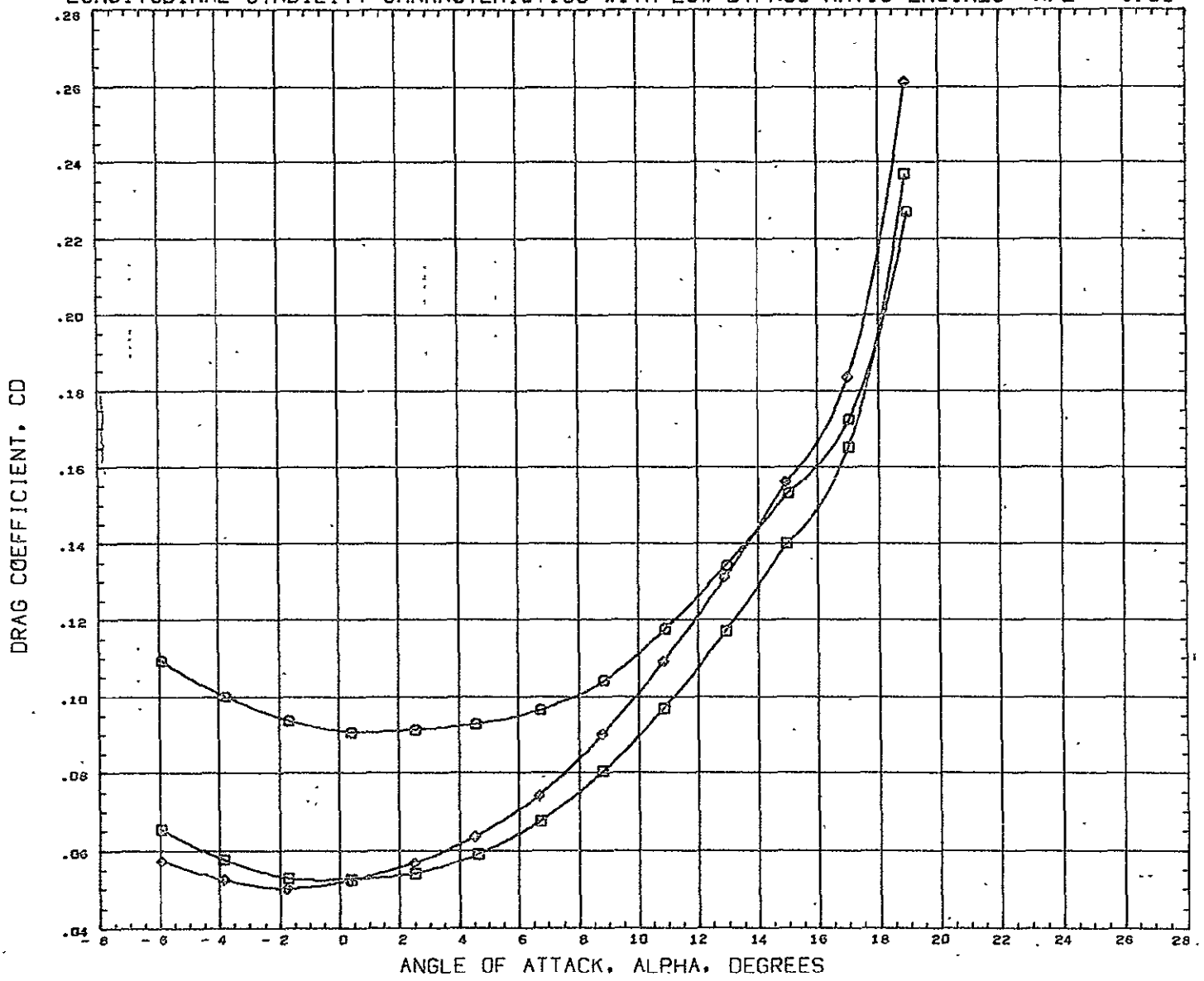
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	25.3800	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.56

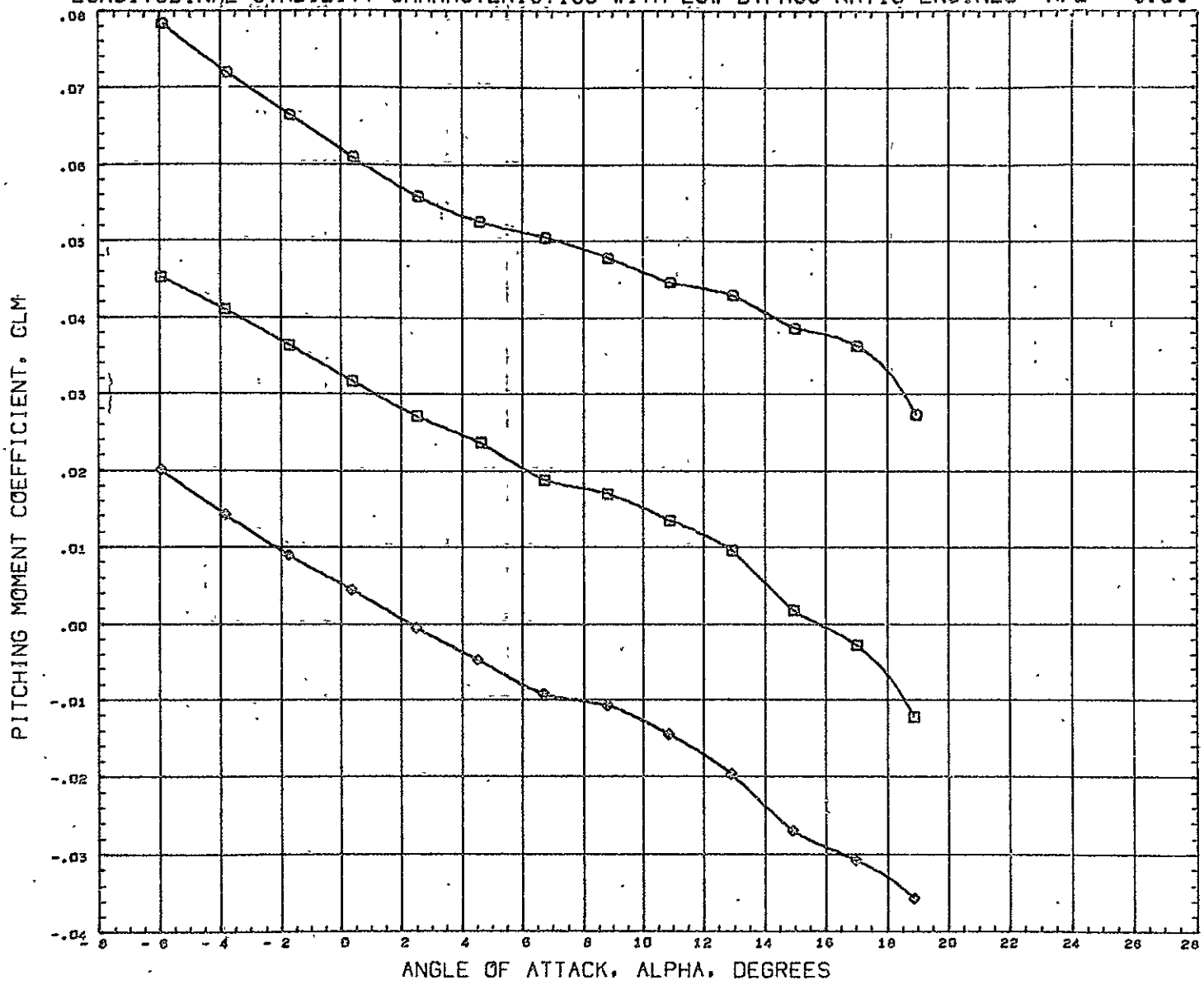


SYMBOL	ELEVTR	PARAMETRIC VALUES			
□	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	25.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.60

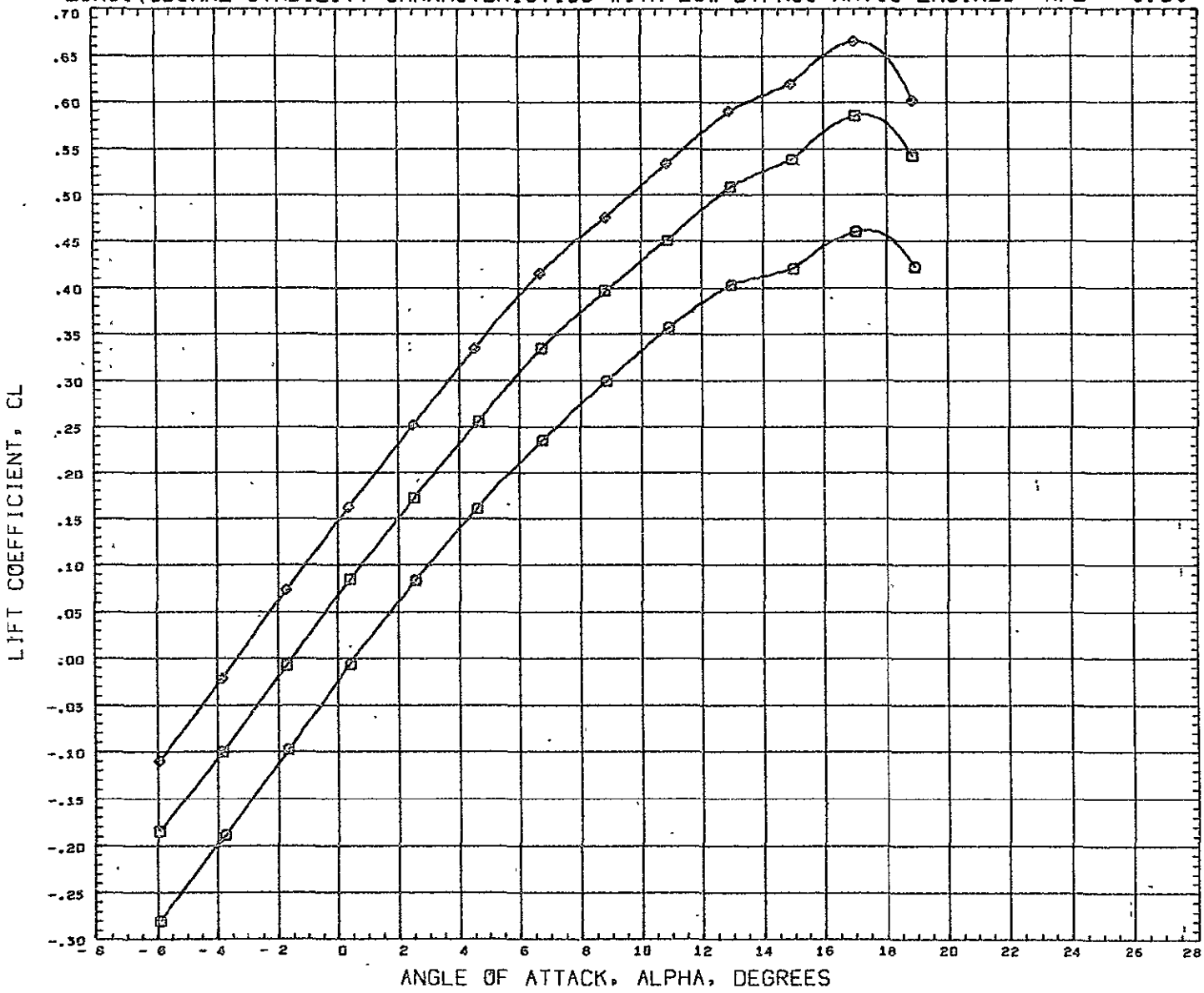


SYMBOL	ELEVTR	PARAMETRIC VALUES				
○	- 30.000	MACH	0.255	BETA	0.000	
□	- 10.000	RUDDER	0.000	FLAPS	0.000	
◇	0.000	SPOILR	0.000	ENGINE	18.000	

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.60

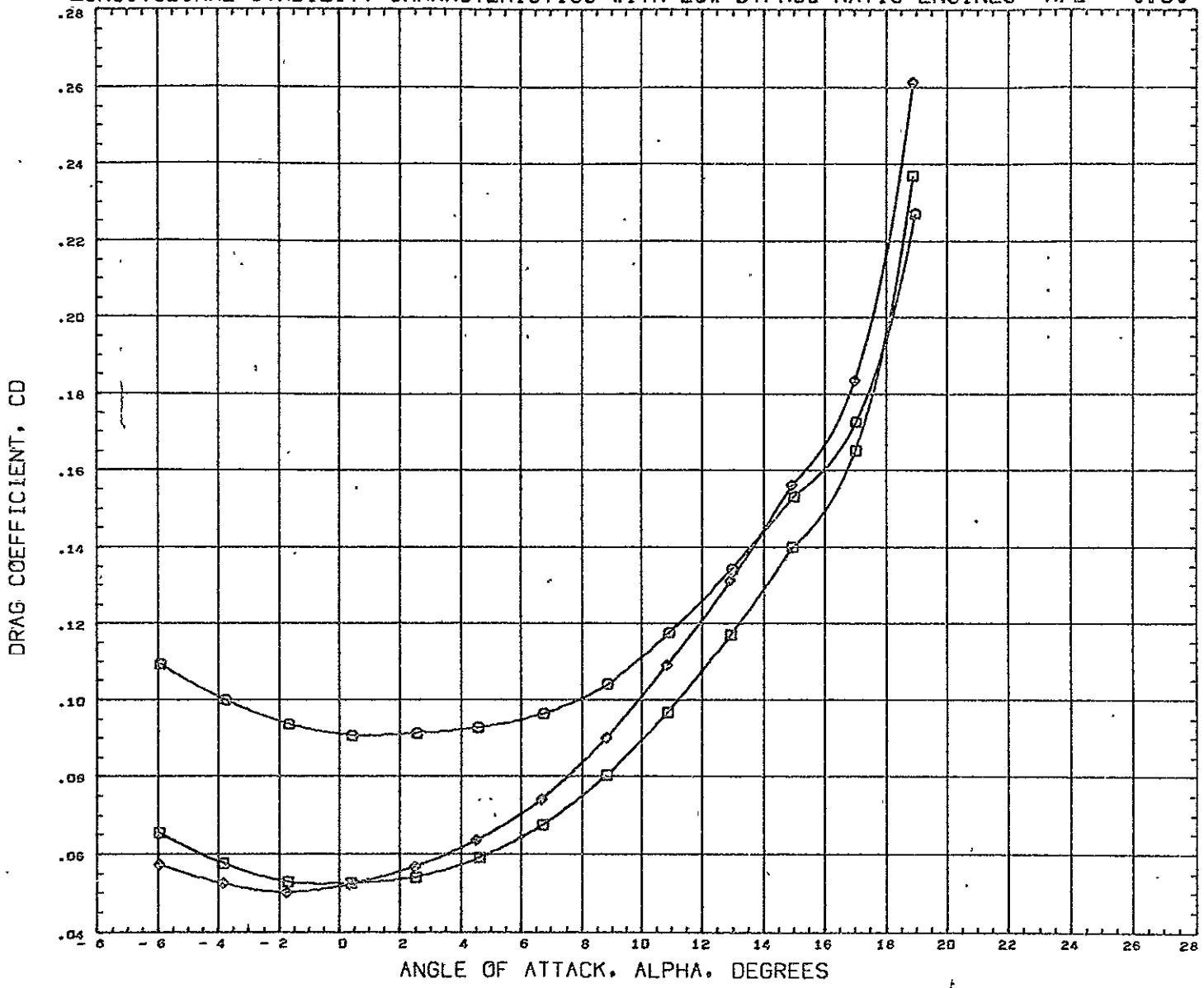


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.60



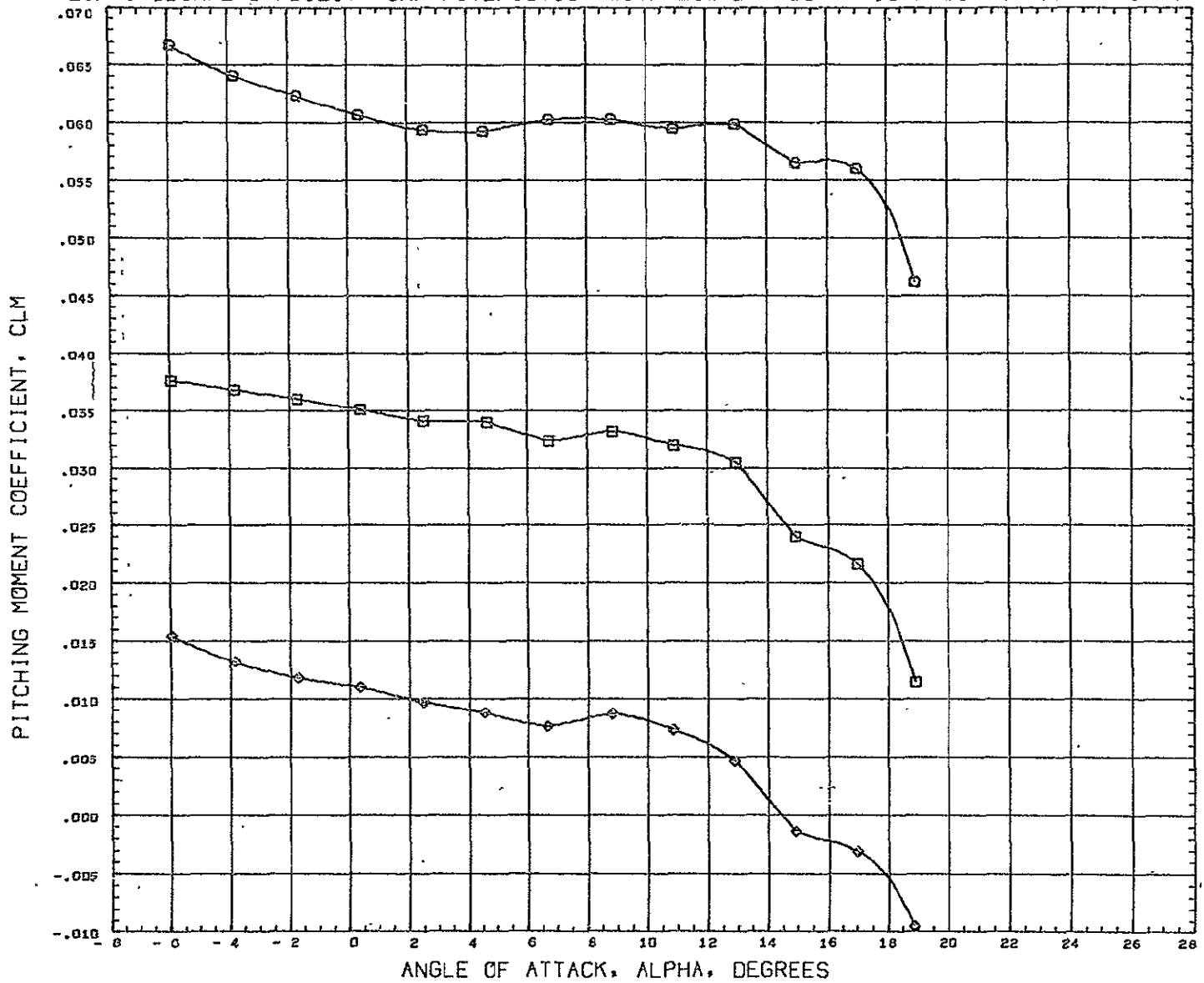
SYMBOL	ELEVTR		PARAMETRIC VALUES		
□	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.64

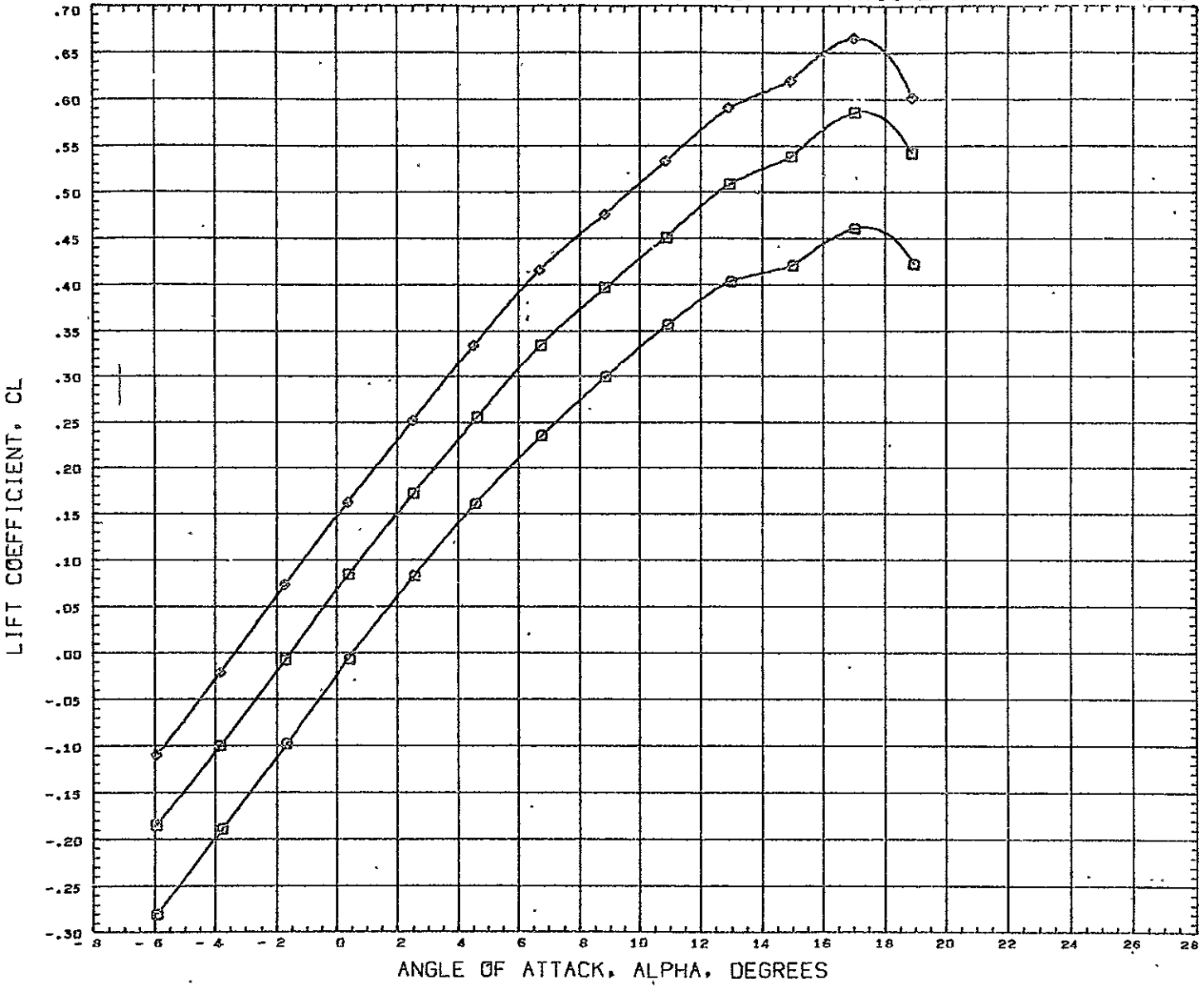


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFFRENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.64

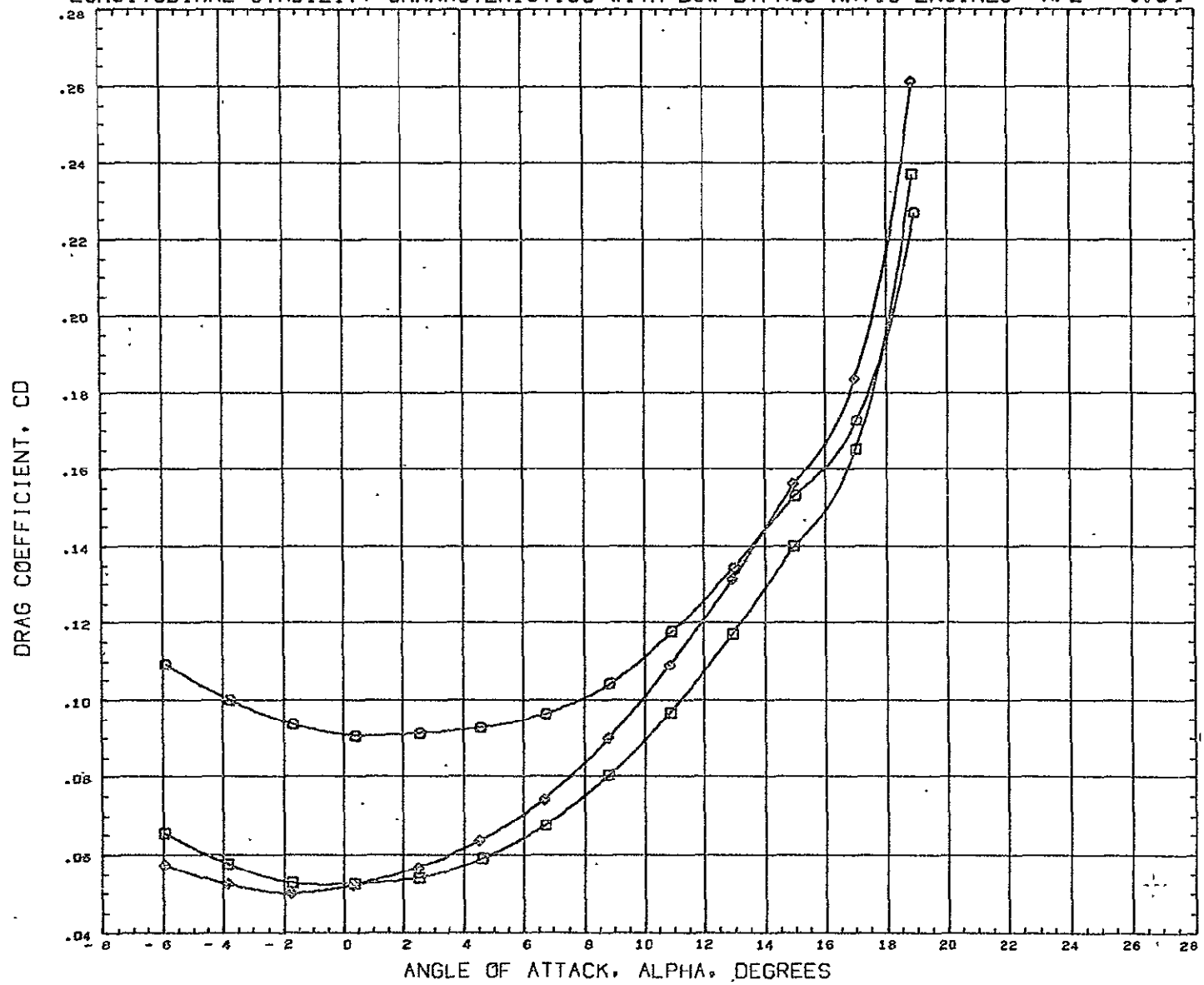


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.64

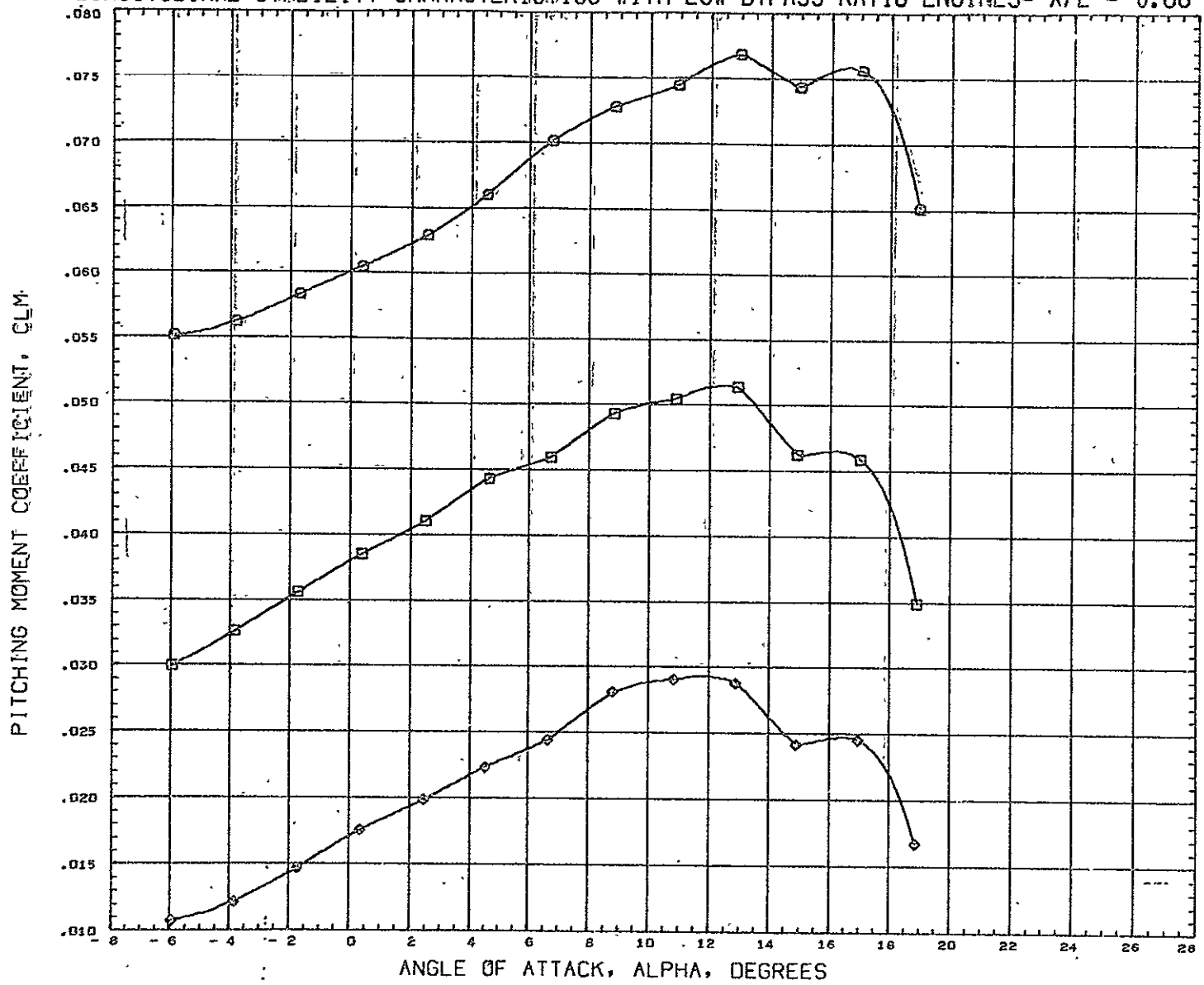


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.68



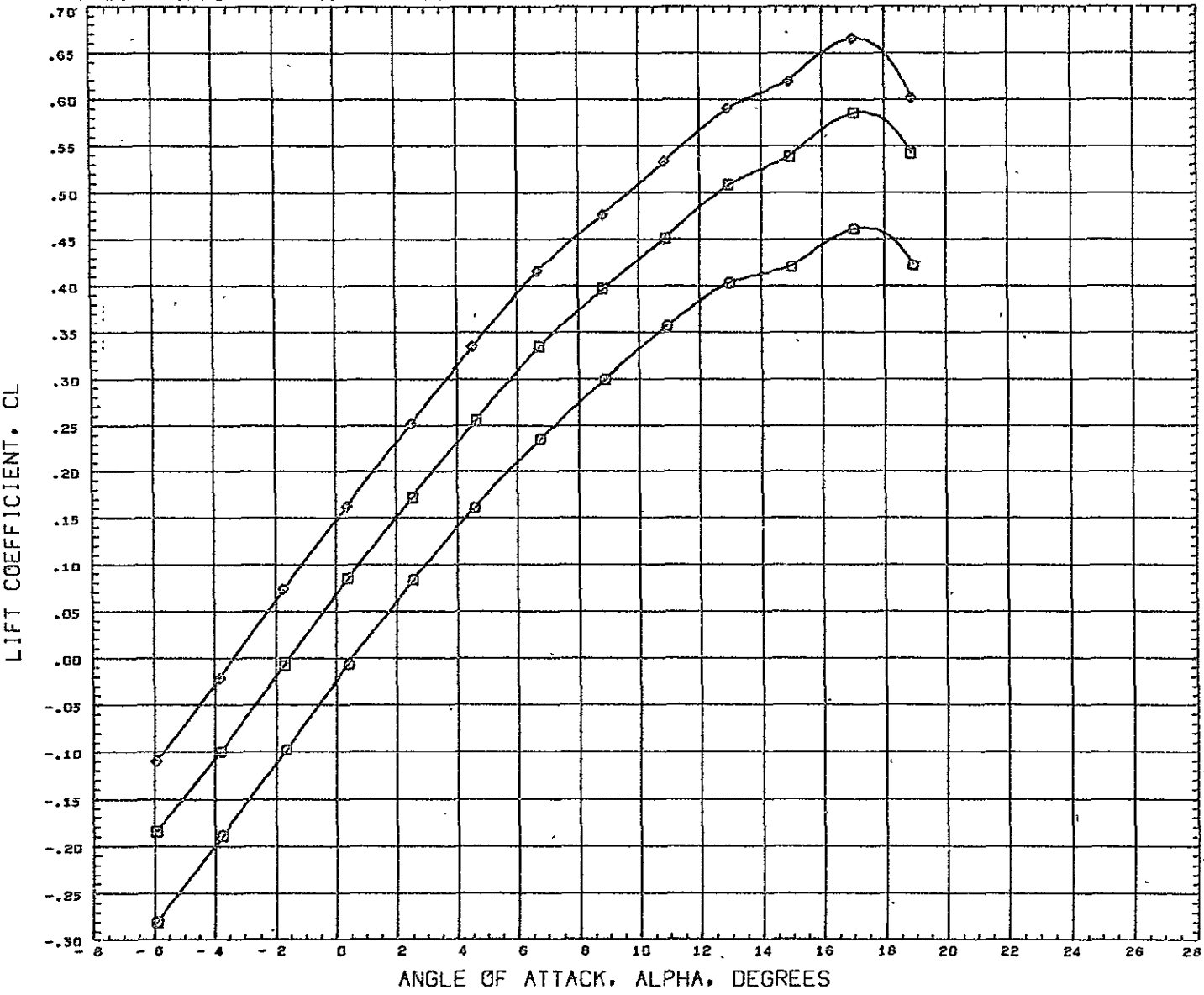
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

DATA HIST. CODE - S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.68

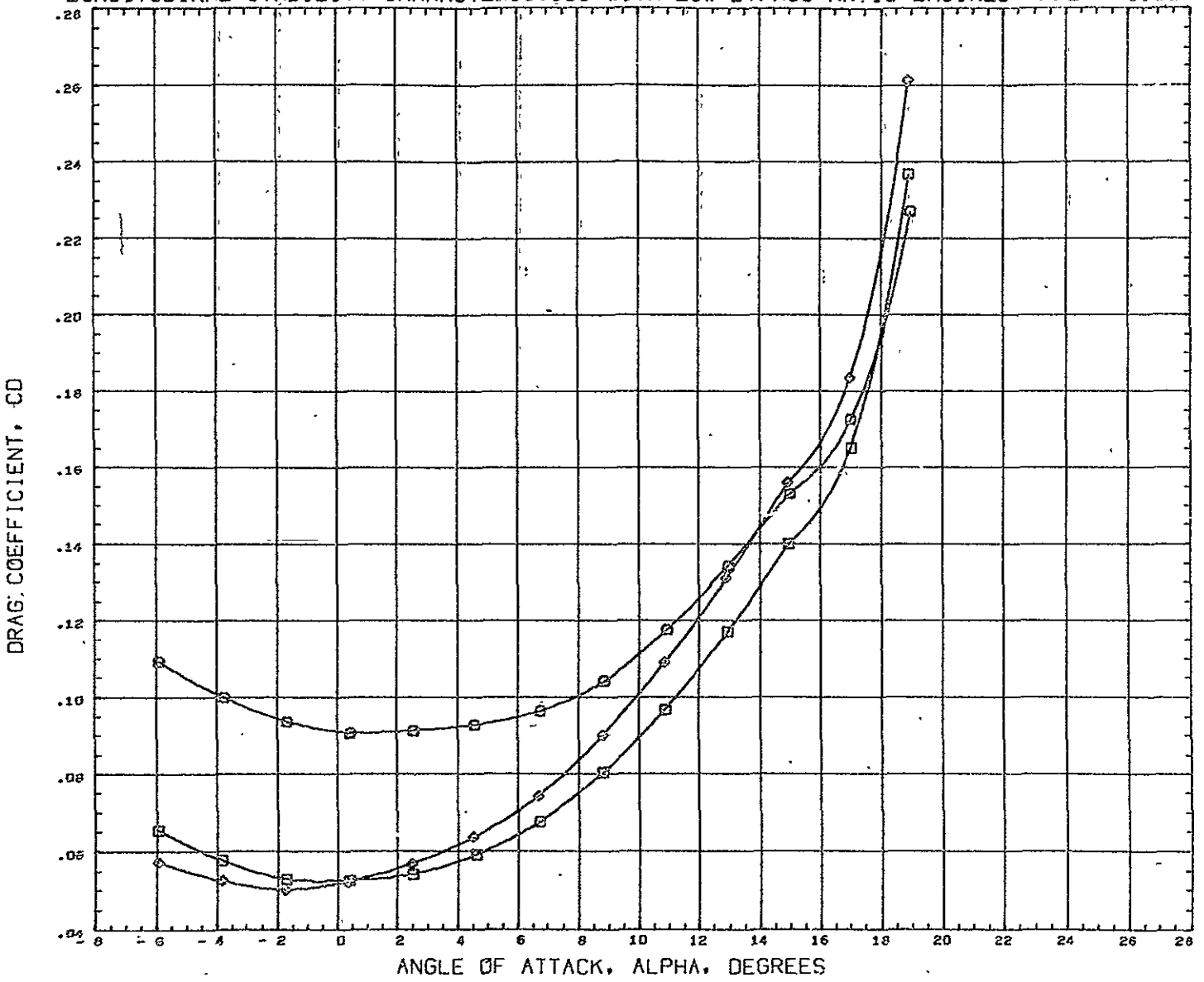


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.68

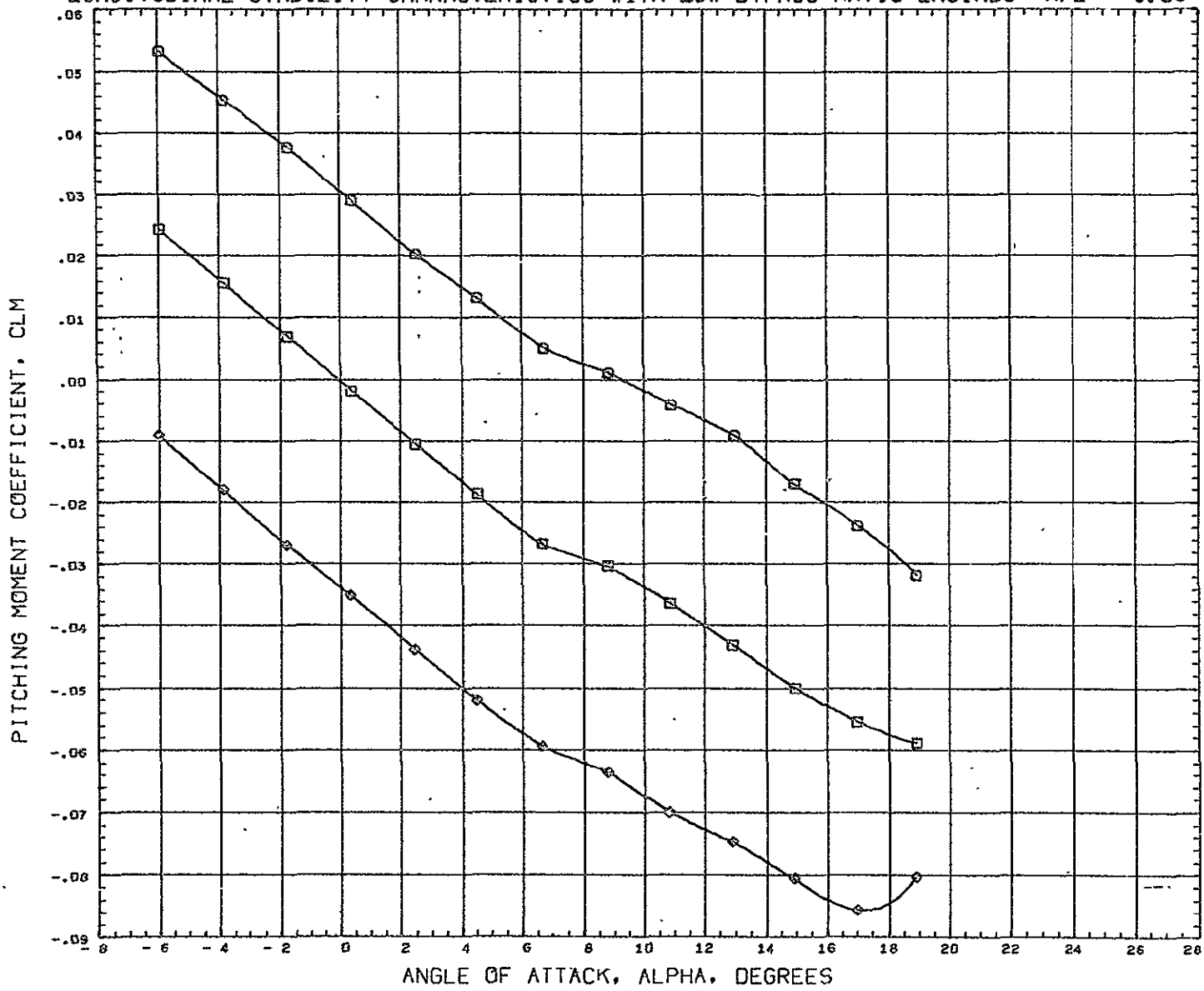


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	- 30.000	MACH	0.259	BETA	0.000
□	- 10.000	RUDDER	0.000	FLAPS	0.000
◇	0.000	SPOILR	0.000	ENGINE	18.000

DATA HIST. CODE 5

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.56

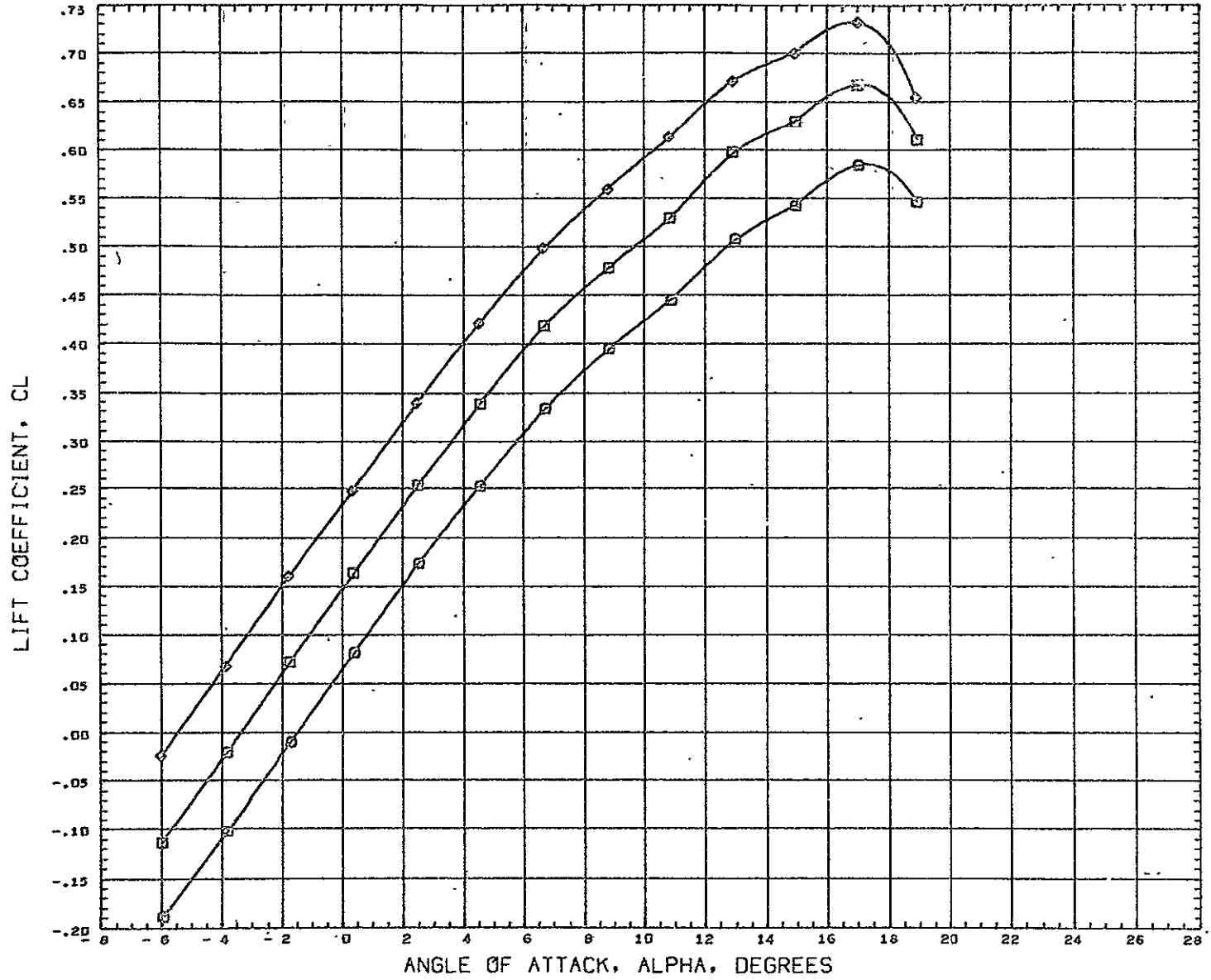


SYMBOL	ELEVTR		PARAMETRIC VALUES		
□	-10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	25.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.56

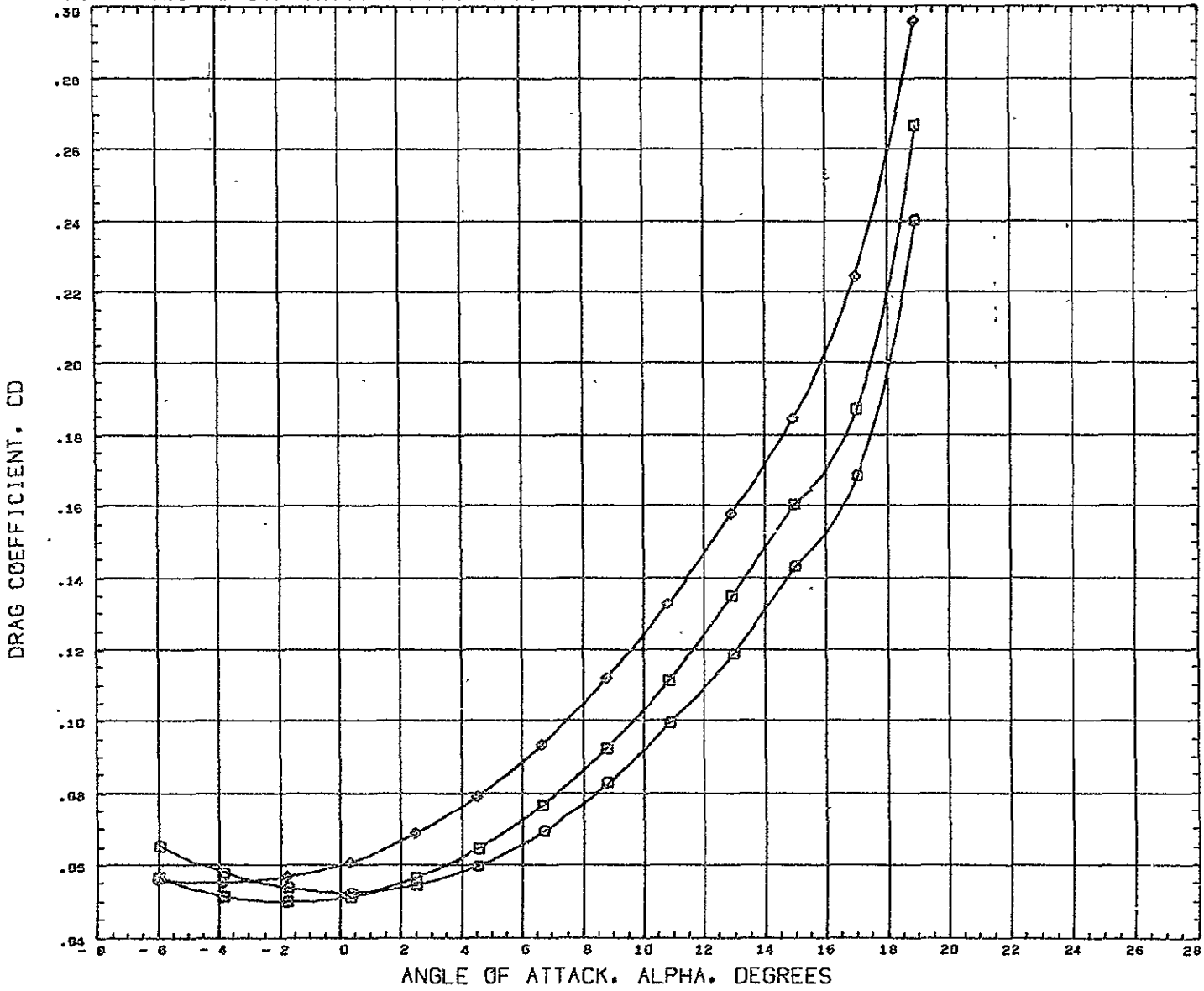


SYMBOL	ELEVTR		PARAMETRIC VALUES		
□	- 10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	25.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.56



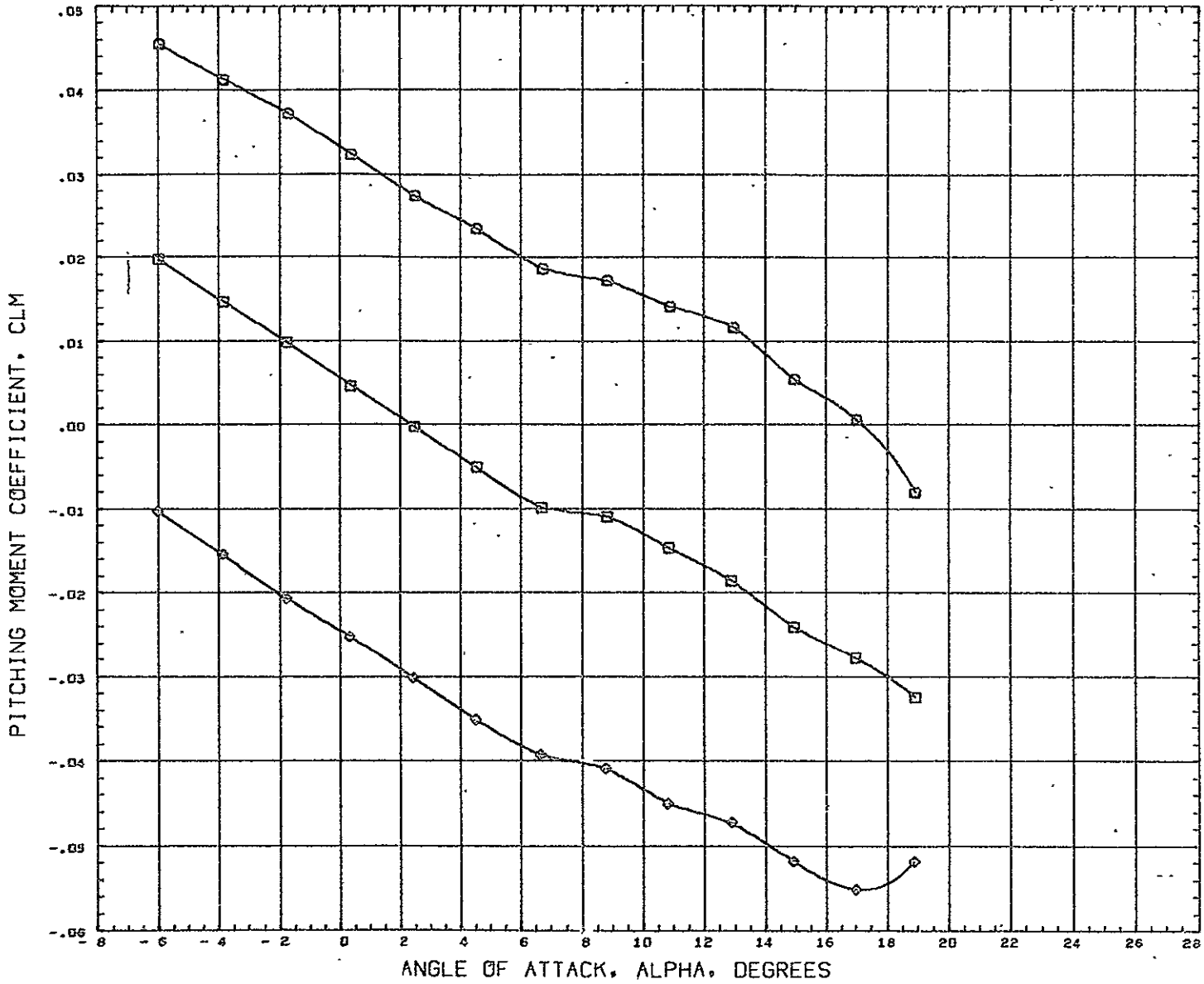
SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	-10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	25.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.60

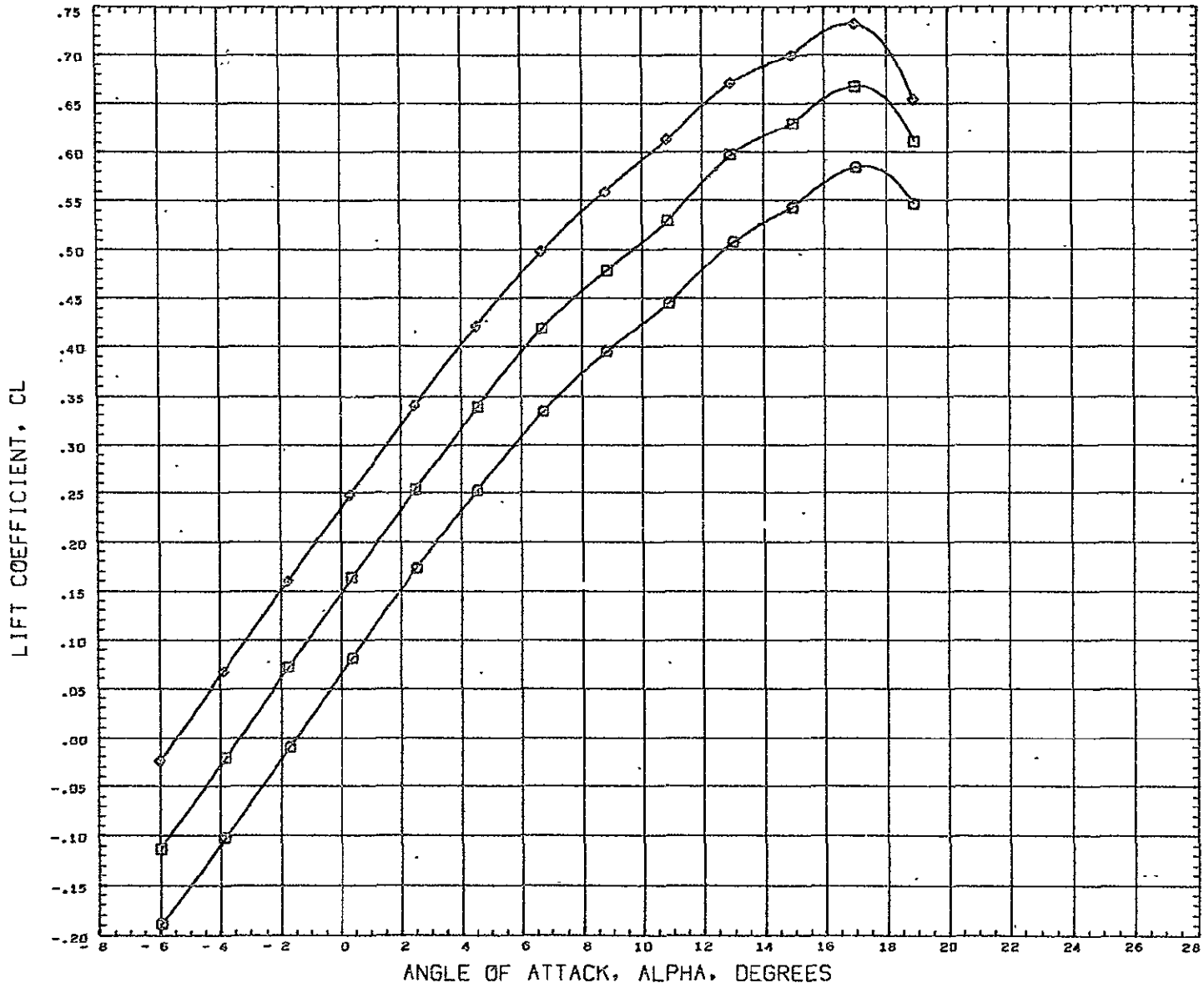


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	-10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.60

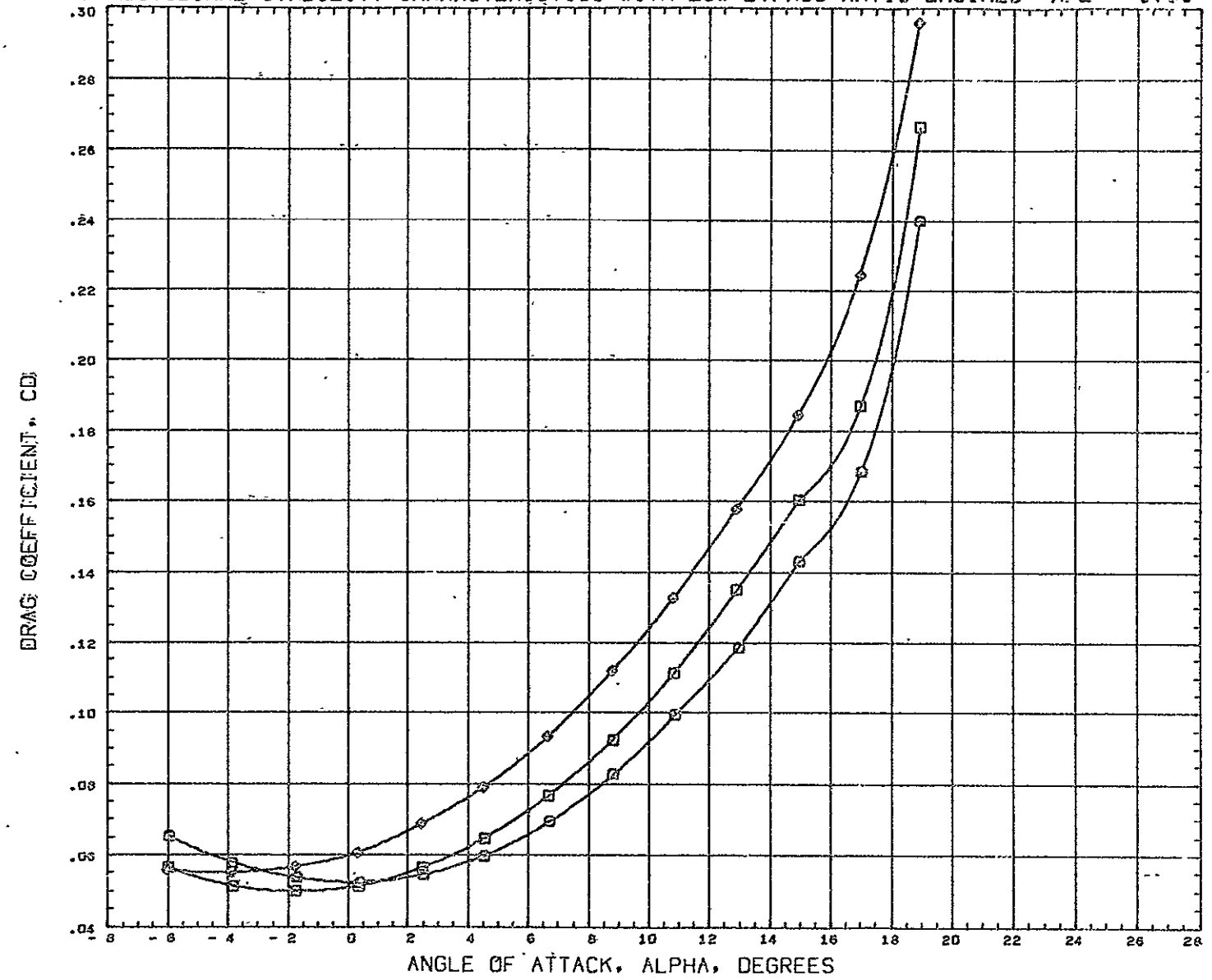


SYMBOL	ELEVTR		PARAMETRIC VALUES		
□	- 10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.60



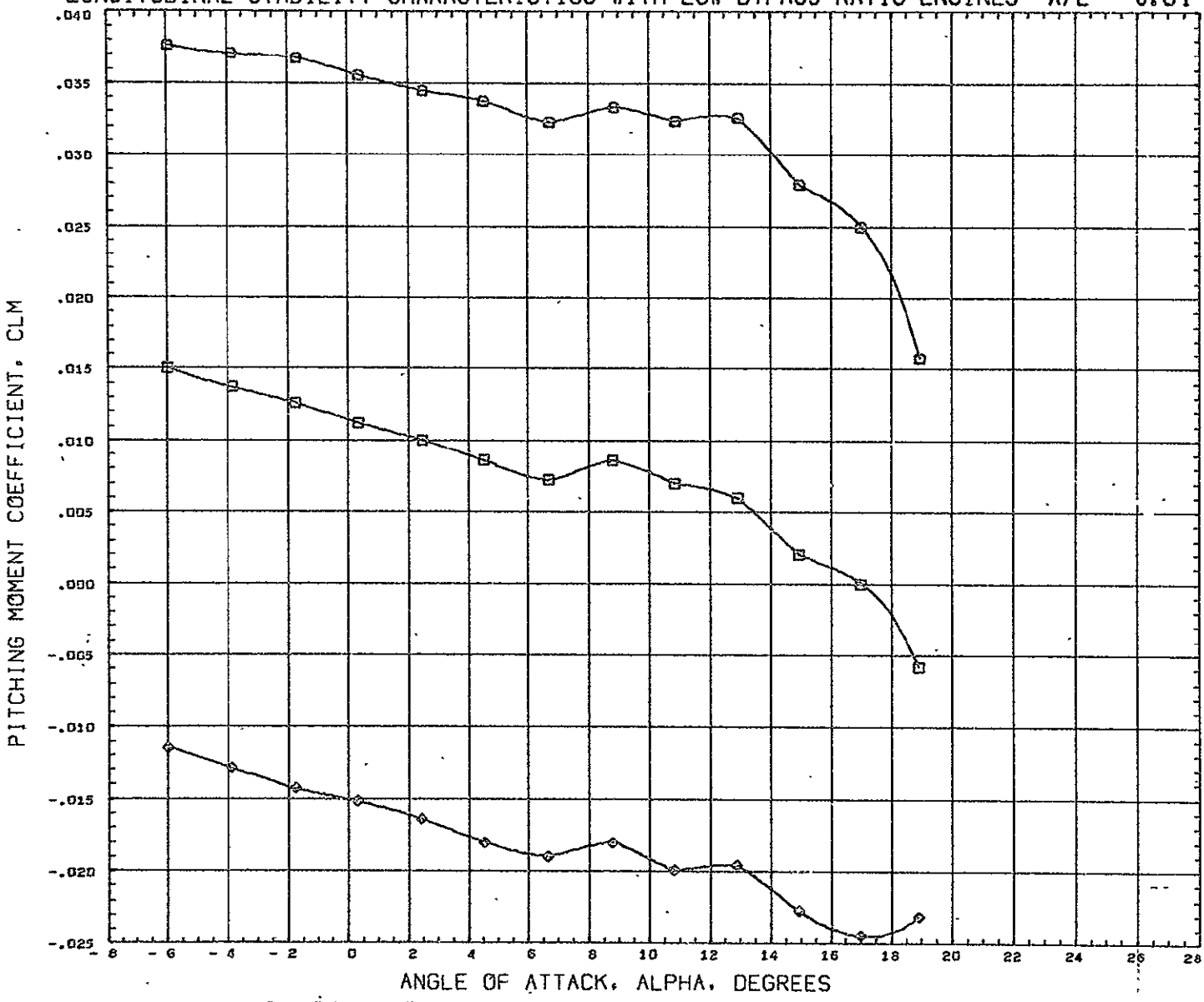
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	-10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

DATA HIST. CODE S

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	27.3800	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.64



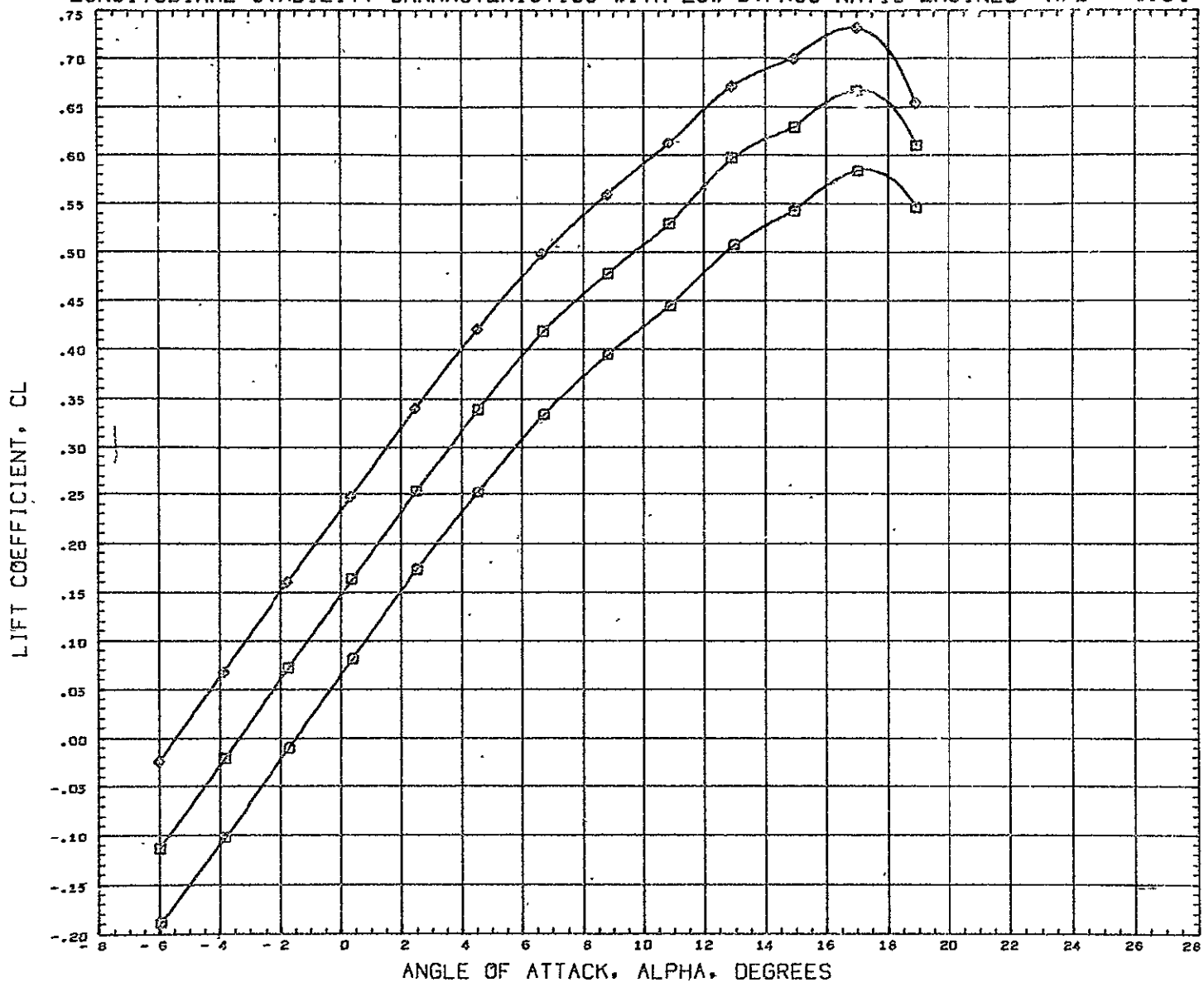
SYMBOL	ELEVTR		PARAMETRIC VALUES		
□	-10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.64



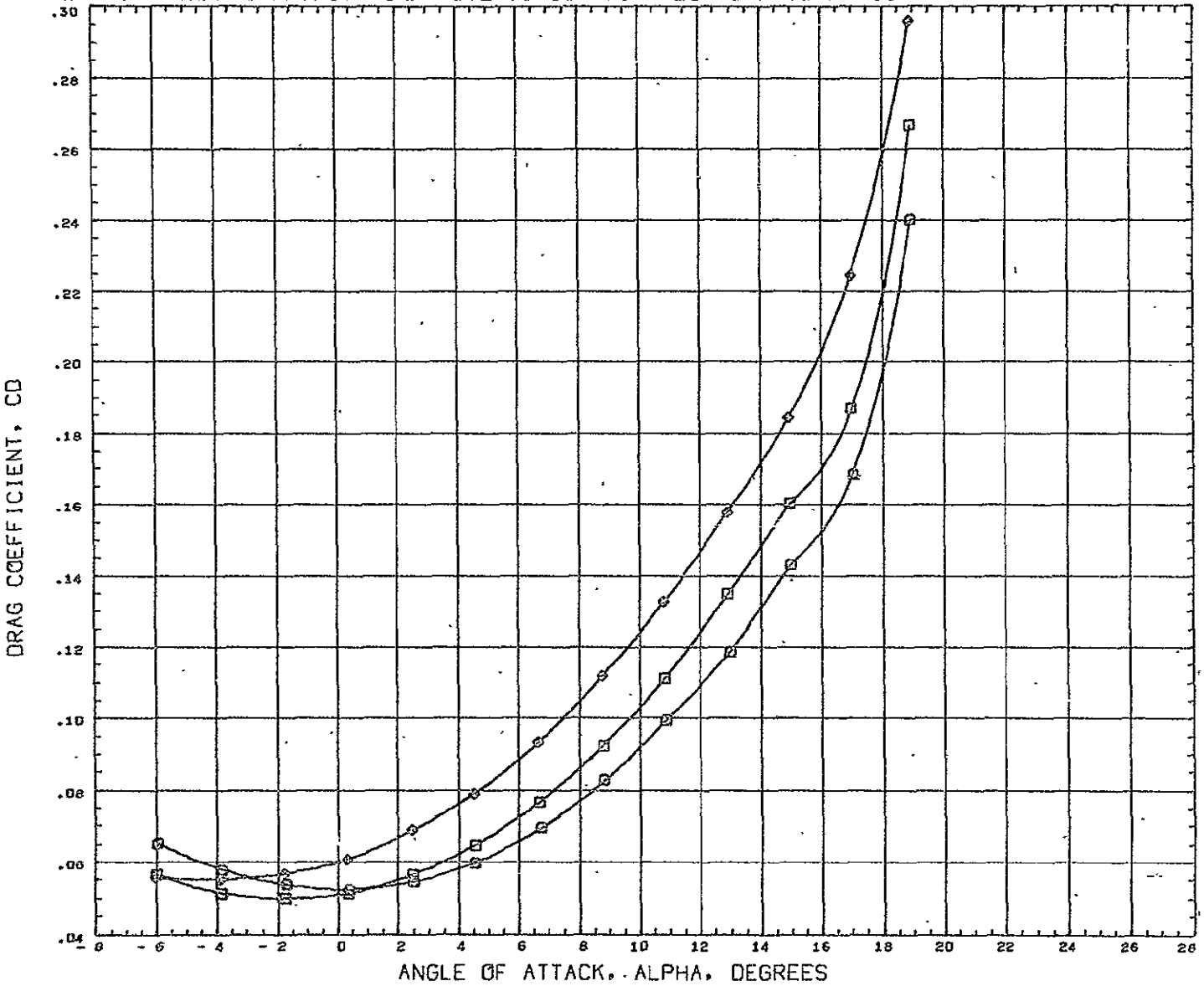
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION

REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	29.3920	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.64

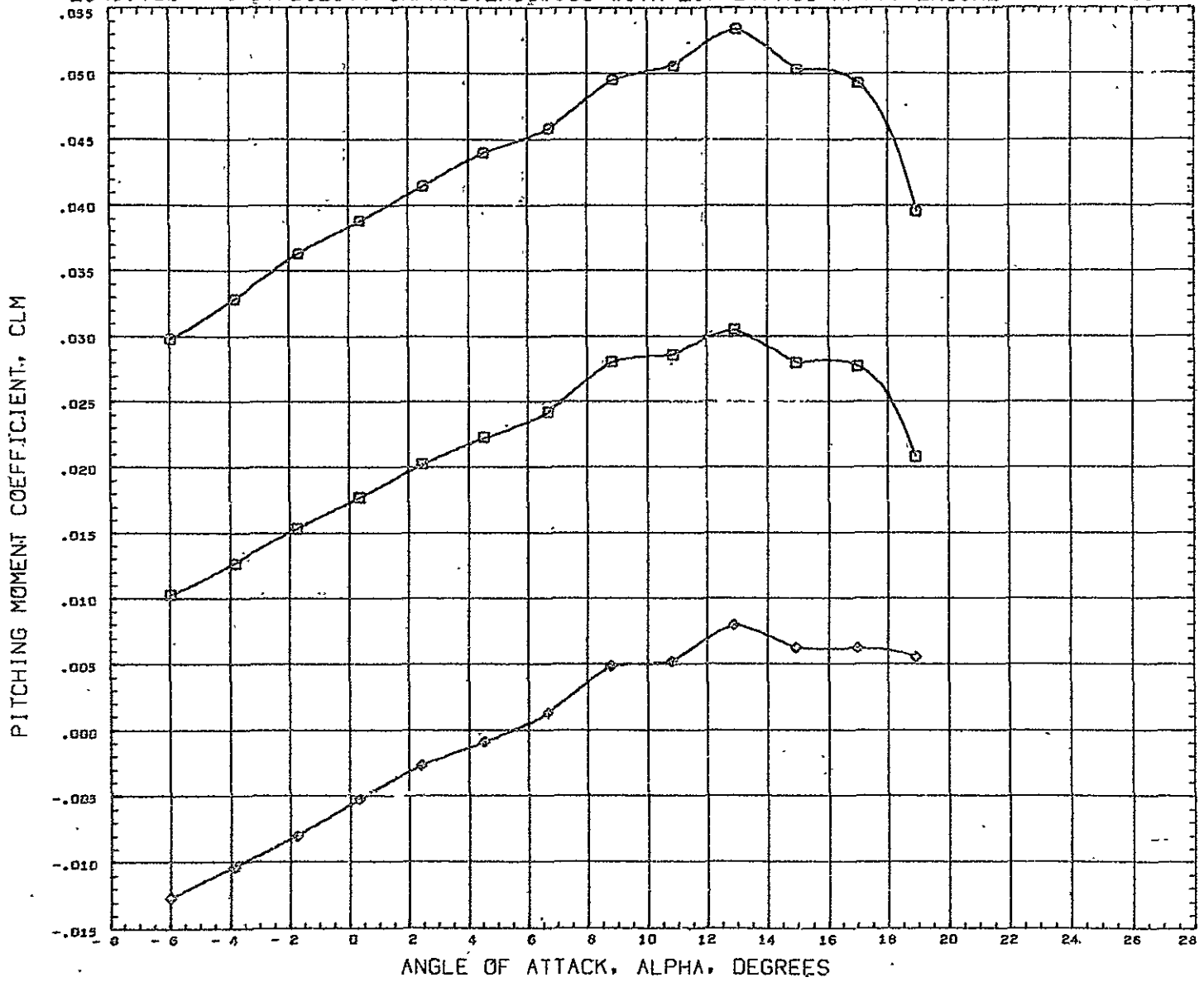


SYMBOL	ELEVTR	PARAMETRIC VALUES			
○	-10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

REFERENCE FILE CONVAIR TN70-AE-12

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRF	29.3920	IN
YMRF	0.0000	IN
ZMRF	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.68

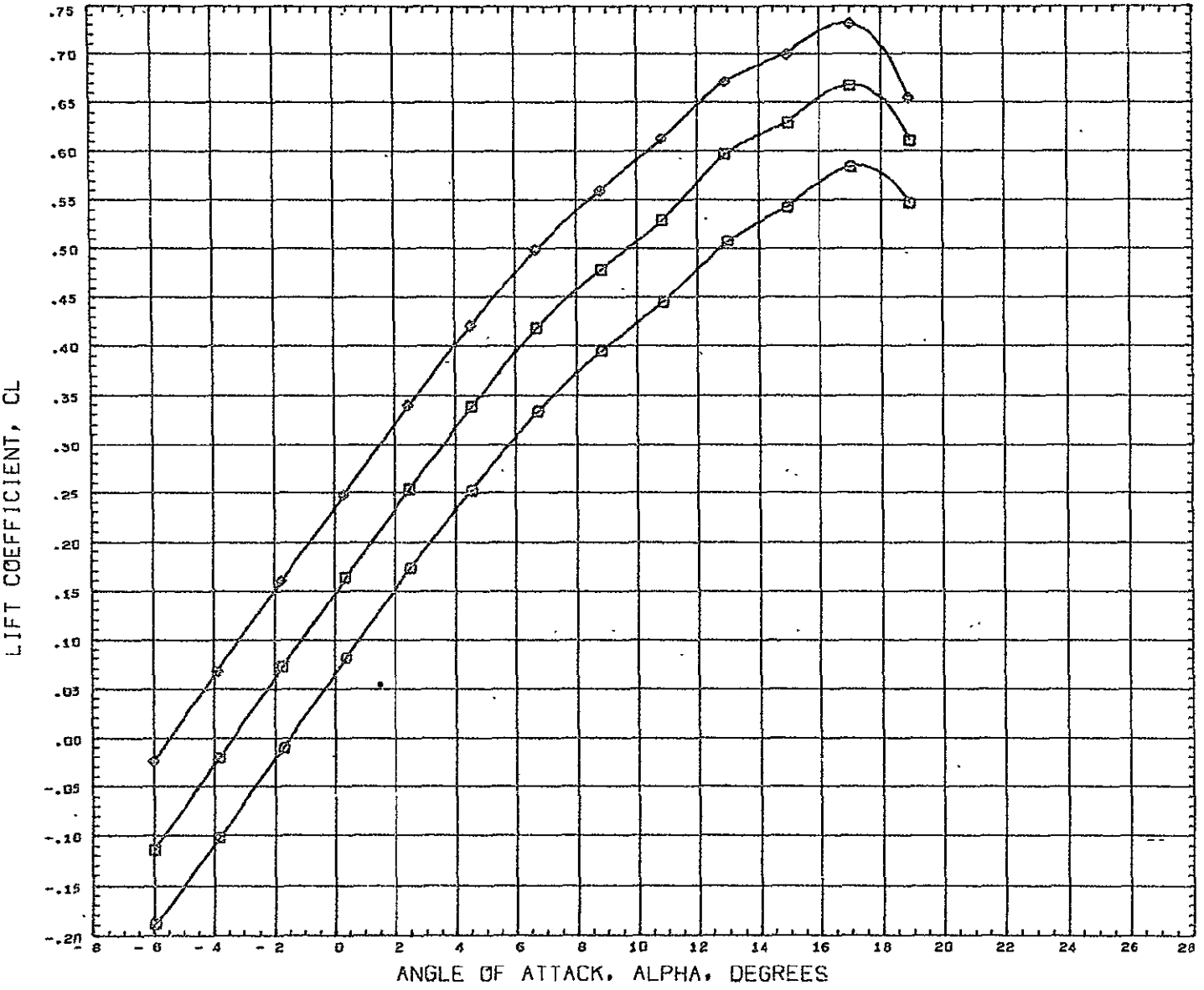


SYMBOL	ELEVTR.	PARAMETRIC VALUES			
○	- 10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.68

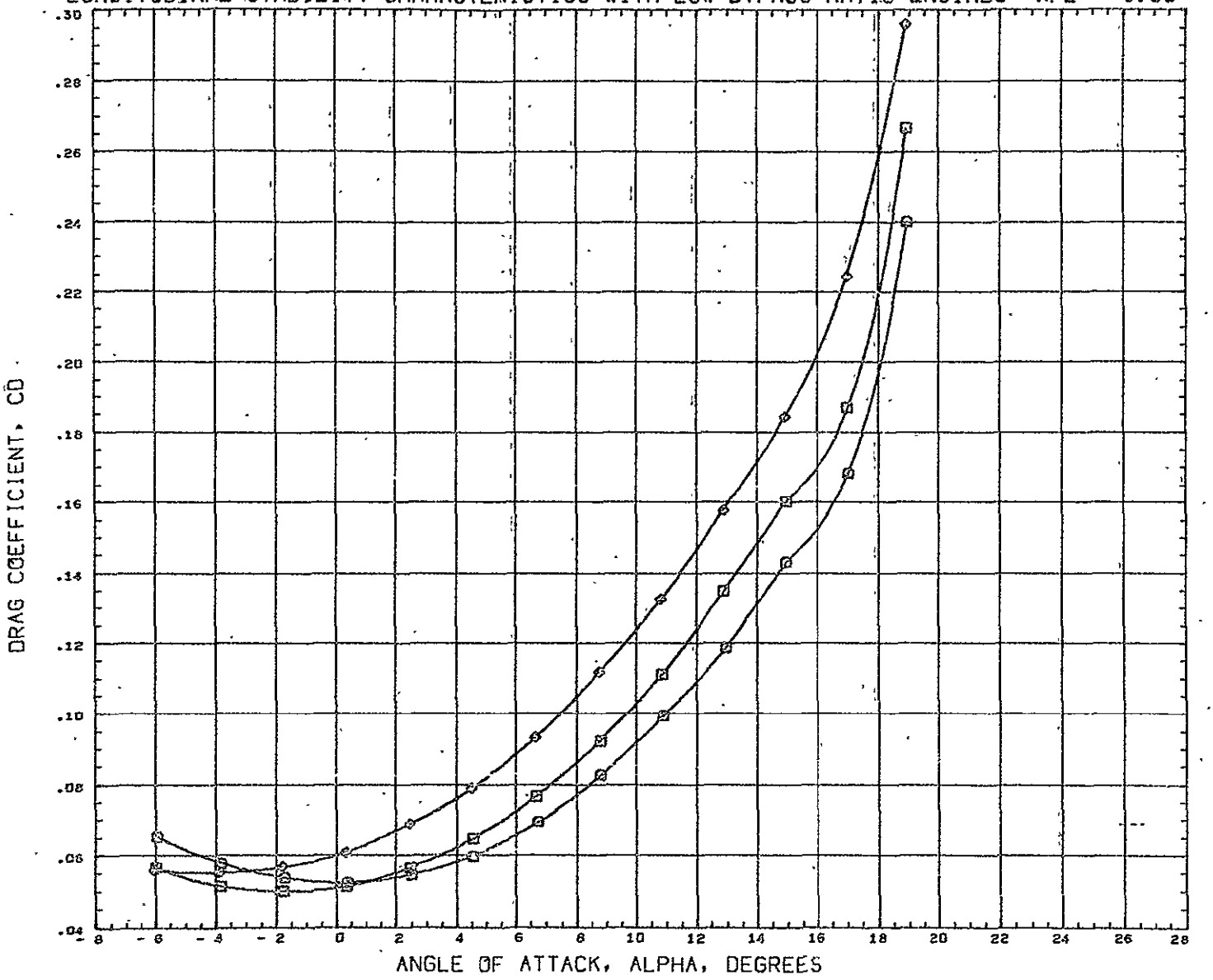


SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	-10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

LONGITUDINAL STABILITY CHARACTERISTICS WITH LOW-BYPASS RATIO ENGINES- X/L = 0.68



SYMBOL	ELEVTR		PARAMETRIC VALUES		
□	-10.000	MACH	0.259	BETA	0.000
□	0.000	RUDDER	0.000	FLAPS	0.000
◇	10.000	SPOILR	0.000	ENGINE	21.000

DATA HIST. CODE S

REFERENCE INFORMATION		
REFS	316.2304	SQ IN
REFL	50.1900	IN
REFB	7.3500	IN
XMRP	31.4000	IN
YMRP	0.0000	IN
ZMRP	0.0000	IN
SCALE	0.0175	

APPENDIX A

LONGITUDINAL TRIM DATA

LONGITUDINAL TRIM DATA

DATA IDENTIFIER	X/L	ALFTRM	CLTRM	CDTRM	L/DTRM	XLTRM
HC8002	0.56	-0.205	0.143	0.042	3.380	-0.114
JC8002	0.60	1.701	0.224	0.045	5.009	-0.070
RC8002	0.64	8.966	0.475	0.079	6.012	-0.075
KC8002	0.68	18.225	0.612	0.218	2.916	0.155
HC8046	0.56	6.649	0.325	0.055	5.915	-0.130
JC8046	0.60	11.931	0.463	0.092	5.005	-0.147
RC8046	0.64	17.628	0.549	0.168	3.374	0.246
KC8046	0.68	-				
HC8045	0.56	16.799	0.430	0.152	2.815	-0.156
JC8045	0.60	-				
RC8045	0.64	-				
KC8045	0.68	-				
HC8055	0.56	-0.530	0.134	0.051	2.654	-0.075
JC8055	0.60	3.002	0.289	0.059	4.880	-0.036
RC8055	0.64	16.745	0.716	0.197	3.597	-0.123
KC8055	0.68	--				
HC8057	0.56	-				
JC8057	0.60	-				
RC8057	0.64	-				
KC8057	0.68	-				
HC8020	0.56	-0.121	0.139	0.051	2.699	-0.092
JC8020	0.60	2.331	0.246	0.056	4.386	-0.051
RC8020	0.64	13.940	0.595	0.142	4.188	-0.200
KC8020	0.68	-				

LONGITUDINAL TRIM DATA (Cont.)

DATA IDENTIFIER	X/L	ALFTRM	CLTRM	CDTRM	L/DTRM	XLTRM
HC8035	0.56	9.297	0.410	0.083	4.951	-0.096
JC8035	0.60	15.307	0.539	0.144	3.732	-0.097
RC8035	0.64	-				
KC8035	0.68	-				
HC8036	0.56	17.429	0.497	0.167	3.030	0.542
JC8036	0.60	-				
RC8036	0.64	-				
KC8036	0.68	-				
HC8037	0.56	-				
JC8037	0.60	-				
RC8037	0.64	-				
KC8037	0.68	-				
HC8043	0.56	-				
JC8043	0.60	-				
RC8043	0.64	-				
KC8043	0.68	-				
HC8039	0.56	-0.920	0.114	0.048	2.339	-0.092
JC8039	0.60	1.022	0.198	0.051	3.905	-0.057
RC8039	0.64	10.955	0.525	0.103	5.078	-0.064
KC8039	0.68	-				
HC8042	0.56	-				
JC8042	0.60	-				
RC8042	0.64	-				
KC8042	0.68	-				

LONGITUDINAL TRIM DATA (Cont.)

DATA IDENTIFIER	X/L	ALFTRM	CLTRM	CDTRM	L/DTRM	XLTRM
HC8062	0.56	-0.193	0.141	0.052	2.733	-0.090
JC8062	0.60	2.267	0.243	0.056	4.327	-0.056
RC8062	0.64	14.317	0.611	0.149	4.115	-0.211
KC8062	0.68	-				
HC8061	0.56	9.197	0.407	0.083	4.900	-0.107
JC8061	0.60	15.568	0.551	0.147	3.740	-0.092
RC8061	0.64	-				
KC8061	0.68	-				
HC8060	0.56	-				
JC8060	0.60	-				
RC8060	0.64	-				
KC8060	0.68	-				
HC8073	0.56	-				
JC8073	0.60	-				
RC8073	0.64	-				
KC8073	0.68	5.452	0.457	0.085	5.403	0.028
HC8070	0.56	-0.112	0.143	0.051	2.835	-0.097
JC8070	0.60	2.352	0.249	0.056	4.433	-0.054
RC8070	0.64	14.277	0.619	0.152	4.081	0.000
KC8070	0.68	-				
HC8072	0.56	9.320	0.409	0.086	4.745	-0.105
JC8072	0.60	17.183	0.585	0.173	3.407	0.221
RC8072	0.64	-				
KC8072	0.68	-				