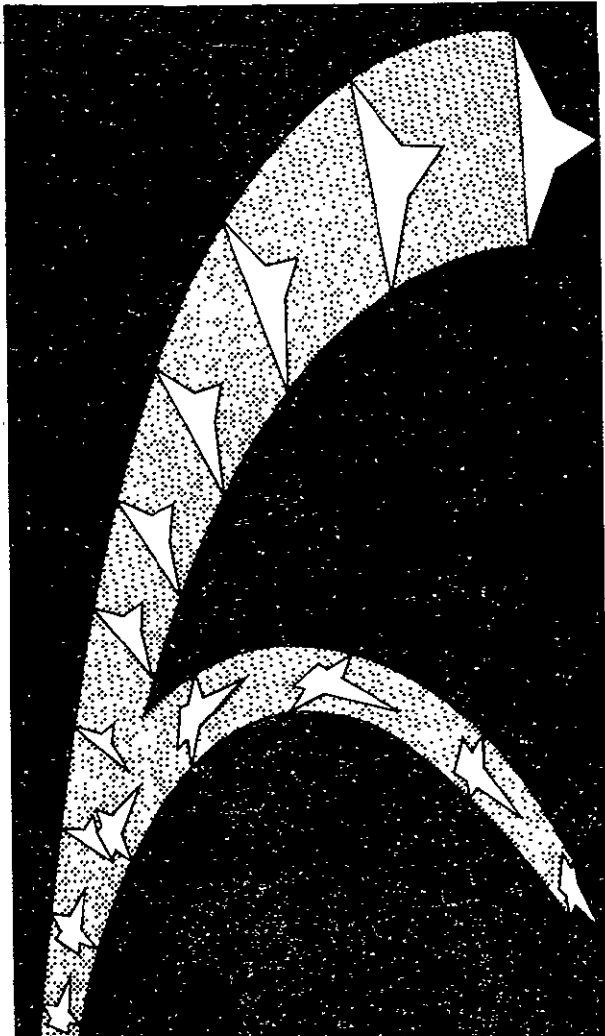


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DMS-DR-1029



—SPACE SHUTTLE—

# LONGITUDINAL AND LATERAL AERODYNAMIC CHARACTERISTICS OF THE CONVAIR B8B SPACE SHUTTLE BOOSTER WITH MODIFICATIONS

GENERAL DYNAMICS/CONVAIR  
HYPERSONIC

WIND TUNNEL TEST RESULTS  
DATA REPORT

NOVEMBER 1970

CONTRACT NAS8-4016

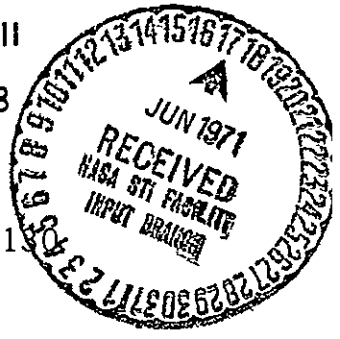
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AMENDMENT 1

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SPACE FLIGHT CENTER



FACILITY FORM 602	<b>N71-35089</b>	
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SADSAC SPACE SHUTTLE  
AEROTHERMODYNAMIC  
DATA MANAGEMENT SYSTEM



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DMS-DR-1029  
November, 1970

SADSAC/SPACE SHUTTLE  
WIND TUNNEL TEST DATA REPORT

CONFIGURATION: CONVAIR B8B SPACE SHUTTLE BOOSTER WITH MODIFICATIONS  
TEST PURPOSE: INVESTIGATION OF LONGITUDINAL AND LATERAL AERODYNAMIC  
CHARACTERISTICS  
TEST FACILITY: GENERAL DYNAMICS HYPERSONIC WIND TUNNEL  
TESTING AGENCY: GENERAL DYNAMICS/CONVAIR  
TEST NO. & DATE: GDHWT 247-0; 17 THROUGH 25 AUGUST 1970  
TEST CONDUCTOR(S): H. ROBINSON AND W. GALLAHER  
PROJECT ENGINEER: R. CULP

DATA MANAGEMENT SERVICES

LIAISON: N/A DATA OPERATIONS: *Albert D. Martin*  
Albert D. Martin,  
Aero Thermo Data Group

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

This report has been prepared by Chrysler Corporation Space Division under a Data Management Contract to the NASA. Chrysler assumes no responsibility for the data presented herein other than its display characteristics.

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## ABSTRACT

This report presents results of an experimental wind tunnel investigation of the Convair B8B Space Shuttle Booster and configuration perturbations. The model configuration perturbations consist of different body lengths, a straight wing in each of three longitudinal locations, a delta wing in one longitudinal location with and without cruise engine simulation. A Vee-tail and two horizontal-vertical tail arrangement were investigated in conjunction with the straight wing. The plotted axial force data presented has not been corrected for balance cavity pressure. The magnitude of this correction was negligible and the apparent magnitude of the balance cavity correction was considerably less than the accuracy of the measurement. The coefficients dependent on the axial force coefficient incorporate this uncorrected value.

Stability and control effectiveness data, the effects of the various model geometric perturbations, and configuration build up data have been presented in this report.

This test was conducted in the General Dynamics Hypersonic Wind Tunnel. The nominal tunnel free stream conditions during this test was Mach number of 8.05, Reynolds number of  $1.9 \times 10^6$  per foot, and a dynamic pressure of 2 psi. The angle of attack range was 0 to 57 degrees.

**TEST CONDITIONS**  
**TEST GDHWT 247-0**

MACH NUMBER	REYNOLDS NUMBER per unit length	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
8.05	$1.9 \times 10^5$ per foot	2.00	900

**BALANCE UTILIZED:** Convair C-1.1-.55-A

**CAPACITY:**

- NF 110 lbs
- SF 25 lbs
- AF 25 lbs
- PM 160 in-lbs
- YM 60 in-lbs
- RM 15 in-lbs

**ACCURACY:**

- .05%
- .13%
- ±.13%
- .07%
- ±.17%
- ±.22%

**COEFFICIENT  
TOLERANCE:**

- ±.002
- .001
- ±.001
- ±.004
- ±.003
- ±.0009

**COMMENTS:** If NF = 110 lbs, max. PM = 75 in-lbs  
 If NF = 0 lbs, max. PM = 160 in-lbs

## DATA REDUCTION

Aerodynamic forces and moments were measured with a six component, internal strain gauge balance; designated the C-1.1-.55-A balance. Base pressures and balance cavity pressures also have been measured. The magnitude of balance cavity adjustment to the axial force data was smaller than the accuracy of the measurement of the balance cavity pressures. Accordingly, the plotted data does not include balance cavity or base pressure adjustments.

Model dimensional data used to form the coefficients are:

$$S_{\text{ref}} = B_1 \text{ body planform area} = 12.674 \text{ in}^2$$

$$l_{\text{ref}} = B_1 \text{ body length} = 10.038 \text{ in}$$

$$b = B_1 \text{ body width} = 1.470 \text{ in}$$

M.R.C.<sup>(1)</sup> = Moment reference center:

For straight wing configurations and associated components, the moment reference center was located at model station 5.746 in. For the delta wing configuration and associated components the model station was 6.694 in. The reference center was located at model water line 4.200 in. for both the delta wing and straight wing configurations and their associated components.

Examination of data and Schlieren photographs at high angle of attack indicated that some of the measurements were probably effected by stream boundary effects. These stream inter-action effects are characterized by a discontinuity in the normal force - angle of attack data. A concomitant increase in longitudinal stability and flattening of the axial force-angle of attack curve as well as a discontinuity in the lateral coefficients was observed. Candidly, these erroneous data have been presented but should not be considered representative of vehicle characteristics.

---

(1) See Figure 1.

The effective control deflections,

Elevator  $\delta_e$

Rudder  $\delta_r$

Aileron  $\delta_a$

are related to the individual panel settings by the following equations, where L and R refer to left and right panels;

$$\delta_e = 1/2(\delta_{Le} + \delta_{Re})$$

$$= 1/2(\delta_{Lr} + \delta_{Rr})$$

$$\delta_r = 1/2(\delta_{Lr} - \delta_{Rr})$$

$$\delta_a = 1/2(\delta_{Le} - \delta_{Re})$$

$$= 1/2(\delta_{Lr} - \delta_{Rr})$$

The variation or slope of any coefficient with respect to effective aileron angle is numerically equal to the variation with respect to effective rudder angle for Vee tail configurations.



## CONFIGURATIONS INVESTIGATED

### NOMENCLATURE

#### Body

- $B_1$  B8B basic body with nose at F.S. sta. - 13.00 ft.
- $B_7$  B8B body with 20 ft center body removed (delta wing fuselage) and nose from  $B_1$  located at F.S. sta. - 7 ft.
- $B_{15}$  Body with short blunt nose and 5 ft horizontal aft shelf extension. Nose located at F.S. sta. 0.
- $B_{14}$  B8B basic body with 5 ft horizontal aft shelf extension.

#### Wing

- $W_1^{15}$  Conventional straight wing mid longitudinal position, trailing edge at model station 6.351 in with a leading edge sweep angle of  $15.834^\circ$ .
- $W_2$  Same as  $W_1^{15}$  but wing in a position forward 4.74% of reference length.
- $W_3$  Same as  $W_1^{15}$  but wing in a position aft 4.74% of reference length.
- $W_5$  Delta wing.

#### Tails

- $T_1^X$  Positive cambered V-tail with rollout angles of X degrees.
- $T_6^{90}$  Zero camber horizontal tail.
- $V_3$  Vertical fin and rudder.

### COMBINATIONS

- $B_1$
- $B_1 W_3$
- $B_1 W_3 T_1^{90} V_3$

COMBINATIONS TESTED (continued)

B<sub>1</sub>W<sub>3</sub>T<sub>1</sub><sup>55</sup>

B<sub>1</sub>W<sub>3</sub>T<sub>6</sub><sup>90</sup>V<sub>3</sub>

B<sub>1</sub>W<sub>1</sub>T<sub>6</sub><sup>90</sup>V<sub>3</sub>

B<sub>1</sub>W<sub>2</sub>T<sub>6</sub><sup>90</sup>V<sub>3</sub>

B<sub>1</sub>T<sub>6</sub><sup>90</sup>V<sub>3</sub>

B<sub>1</sub>T<sub>1</sub><sup>55</sup>

B<sub>14</sub>W<sub>3</sub>T<sub>6</sub><sup>90</sup>V<sub>3</sub>

B<sub>15</sub>W<sub>3</sub>T<sub>6</sub><sup>90</sup>V<sub>3</sub>

B<sub>7</sub>

B<sub>7</sub>V<sub>3</sub>

B<sub>7</sub>W<sub>5</sub>V<sub>3</sub>

B<sub>7</sub>W<sub>5</sub>V<sub>3</sub>E<sub>7</sub>

MODEL COMPONENT: BODY - B<sub>1</sub>

GENERAL DESCRIPTION: Basic body for "straight wing" with spacer and  
standard boattail with intermediate nose at model station -0.546 inches.  
(-13 ft full scale)

DRAWING NUMBER: WT 70-105204

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>(0.0035)</u> <u>MODEL SCALE</u>
Length	<u>239 ft</u>	<u>10.038 in</u>
Max. Width	<u>35 ft</u>	<u>1.47 in</u>
Max. Depth	<u>37.1 ft</u>	<u>1.558 in</u>
Fineness Ratio		<u>6.82</u>
Area		
Max. Cross-Sectional		
Planform	<u>7184.8ft<sup>2</sup></u>	<u>12.674 in<sup>2</sup></u>
Wetted		
Base (includes balance chamber)	<u>951.8 ft<sup>2</sup></u>	<u>1.679 in<sup>2</sup></u>
Balance Chamber		<u>0.690 in<sup>2</sup></u>
Geometric Balance Center		
Sta.		<u>5.996 in</u>
W.L.		<u>4.200 in.</u>
Moment Reference Center		
Sta.	<u>136.81 ft</u>	<u>5.746 in</u>
W.L.	<u>100.00 ft</u>	<u>4.200 in</u>

MODEL COMPONENT: BODY - B<sub>7</sub>

GENERAL DESCRIPTION: Basic fuselage for delta wing configuration. Same as B<sub>1</sub> fuselage with spacer section removed. Model nose is at station 0.294 in (7 ft full scale)

DRAWING NUMBER: WT 70-105204

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>(0.0035)</u> <u>MODEL SCALE</u>
Length	<u>219 ft</u>	<u>9.198 in</u>
Max. Width	<u>35 ft</u>	<u>1.47 in</u>
Max. Depth	<u>                    </u>	<u>                    </u>
Fineness Ratio	<u>                    </u>	<u>                    </u>
Area		
Max. Cross-Sectional	<u>                    </u>	<u>                    </u>
Planform	<u>6576 ft<sup>2</sup></u>	<u>11.600 in<sup>2</sup></u>
Wetted	<u>                    </u>	<u>                    </u>
Base (includes balance chamber)	<u>951.8 ft<sup>2</sup></u>	<u>1.679 in<sup>2</sup></u>
Balance Chamber		<u>0.690 in<sup>2</sup></u>
Geometric Balance Center		
Sta.		<u>5.996 in</u>
W.L.		<u>4.200 in</u>
Moment Reference Center		
Sta.	<u>159.38 ft</u>	<u>6.694 in</u>
W.L.	<u>100.00 ft</u>	<u>4.200 in</u>

MODEL COMPONENT: BODY - B<sub>14</sub>

GENERAL DESCRIPTION: Same as B<sub>1</sub> with 0.210 in. aft shelf (5 ft. full scale).

DRAWING NUMBER: WT 70-105204 (.0035)

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>244 ft</u>	<u>10.248</u>
Max. Width	<u>35 ft</u>	<u>1.47 in</u>
Max. Depth	<u>37.1 ft</u>	<u>1.558 in</u>
Fineness Ratio	<u>                    </u>	<u>                    </u>
Area		
Max. Cross-Sectional	<u>                    </u>	<u>                    </u>
Planform	<u>7360 ft<sup>2</sup></u>	<u>12.982 in<sup>2</sup></u>
Wetted	<u>                    </u>	<u>                    </u>
Base (Includes balance chamber)	<u>951.8 ft<sup>2</sup></u>	<u>1.679 in<sup>2</sup></u>
Balance Chamber	<u>                    </u>	<u>0.690 in<sup>2</sup></u>
Geometric Balance Center		
Sta.		5.996 in
W.L.		4.200 in
Moment Reference Center		
Sta.	136.89 ft	5.746 in
W.L.	100.00 ft	4.200 in

MODEL COMPONENT: BODY - B<sub>15</sub>

GENERAL DESCRIPTION: Same as B<sub>1</sub>, however has short nose located at station 0 and with 0.210 in aft shelf (5 ft full scale).

DRAWING NUMBER: WT 70-105204

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>(.0035) MODEL SCALE</u>
Length	<u>231 ft</u>	<u>9.702 in</u>
Max. Width	<u>35 ft</u>	<u>1.47 in</u>
Max. Depth	<u>37.1 ft</u>	<u>1.56 in</u>
Fineness Ratio	<u>                    </u>	<u>                    </u>
Area		
Max. Cross-Sectional	<u>                    </u>	<u>                    </u>
Planform	<u>7134 ft<sup>2</sup></u>	<u>12.585 in<sup>2</sup></u>
Wetted	<u>                    </u>	<u>                    </u>
Base	<u>951.8 ft<sup>2</sup></u>	<u>1.679 in<sup>2</sup></u>
Balance Chamber		<u>0.690 in<sup>2</sup></u>
Geometric Balance Chamber		
Sta.		<u>5.996 in</u>
W.L.		<u>4.200 in</u>
Moment Reference Center		
Sta.	<u>136.89 ft</u>	<u>5.746 in</u>
W.L.	<u>100.00 ft</u>	<u>4.200 in</u>

MODEL COMPONENT: Wing, W<sub>2</sub>, W<sub>1</sub><sup>15</sup>, W<sub>3</sub>

GENERAL DESCRIPTION: located in one of three positions (trailing edge location, station: W<sub>2</sub> @ 5.876 in, W<sub>1</sub><sup>15</sup> @ 6.351 in, W<sub>3</sub> @ 6.825 in)

DRAWING NUMBER: WT 70-105204

DIMENSIONS: FULL-SCALE (0.0035) MODEL SCALE

TOTAL DATA

Area		
Planform	2909 ft <sup>2</sup>	5.132 in <sup>2</sup>
Wetted		
Span (equivalent)	144.8 ft	6.082 in
Aspect Ratio	6.931	6.931
Rate of Taper		
Taper Ratio	.340	.340
Diehedral Angle, degrees	0	0
Incidence Angle, degrees	6	0
Aerodynamic Twist, degrees	0	0
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	15.85	15.85
Trailing Edge	0	0
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)	30.57 ft	1.284 in
Tip, (equivalent)	10.0 ft	.420 in
MAC	22.14 ft	.930 in
Wing Apex to .25 MAC	13.97 ft	.587 in
W.P. of .25 MAC		
B.L. of MAC	30.10 ft	1.264 in
Root		
Tip	NACA 4416 MOD.	
	NACA 4414 MOD.	

EXPOSED DATA

Area	2003 ft <sup>2</sup>	3.534 in <sup>2</sup>
Span, (equivalent)	112.85 ft	4.740 in
Aspect Ratio	6.262	6.265
Taper Ratio	0.384	0.384
Chords		
Root	26.02 ft	1.093 in
Tip	10.0 ft	.420 in
MAC	19.19 ft	.806 in
Fus. Sta. of .25 MAC	11.62 ft	.488 in
W.P. of .25 MAC	40.02 ft	1.681 in

MODEL COMPONENT: Delta Wing, W5

GENERAL DESCRIPTION: Delta wing equipped with full span elevons

DRAWING NUMBER:

WT 70-105204

(0.0035)

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area	8615 ft <sup>2</sup>	15.197 in <sup>2</sup>
Planform		
Wetted		
Span (equivalent)	138.00 ft	5.796 in
Aspect Ratio		2.136
Rate of Taper		
Taper Ratio	.165	.165
Dihedral Angle, degrees	5.5	5.5
Incidence Angle, degrees	3	3
Aerodynamic Twist, degrees	0	0
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	53.3	53.30
Trailing Edge	0	0
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)	109 ft	4.578 in
Tip, (equivalent)	16.43 ft	.690 in
MAC,	74.36 ft	3.123 in
Wing Apex to .25 MAC	53.24 ft	3.236 in
W.P. of .25 MAC		
B.L. of .25 MAC	25.81	1.084 in
Root	NACA 4408	
Tip	NACA 4408	

EXPOSED DATA

Area	5443 ft <sup>2</sup>	9.601 in <sup>2</sup>
Span, (equivalent)	106 ft	4.452 in
Aspect Ratio	2.050	2.050
Taper Ratio	.189	.189
Chords		
Root	87.00 ft	3.654
Tip	16.43 ft	.690 in
MAC	59.74 ft	2.505 in
Fus. Sta. of .25 MAC		
B.L. of .25 MAC	36.71	1.542



MODEL COMPONENT: Cambered Vee Tail, T<sub>1</sub><sup>∅v</sup>

GENERAL DESCRIPTION: Vee Tail, tested at various rollout angles,  $\phi_v$ . Equipped with rudders or ruddervators. Incorporates positive camber.  $\phi_v = 35, 45, 55$  or 90 degrees.

DRAWING NUMBER: WT 70-105204

DIMENSIONS:

FULL-SCALE

(0.0035)  
MODEL SCALE

TOTAL DATA

Area		
Planform		
Wetted		
Span (equivalent)		
Aspect Ratio		
Rate of Taper		
Taper Ratio		
Dihedral Angle, degrees		
Incidence Angle, degrees		
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge		
Trailing Edge		
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)		
Tip, (equivalent)		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root	NACA 4416	MOD
Tip	NACA 4414	MOD
<u>EXPOSED DATA</u> PER SIDE		

Area	1168 ft <sup>2</sup>	2.06 in <sup>2</sup>
Span, (equivalent)	42.29 ft	1.776 in
Aspect Ratio	1.531	1.531
Taper Ratio	.560	.560
Chords		
Root	35.40 ft	1.487 in
Tip	19.81 ft	.832 in
MAC	28.24 ft	1.100 in
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		

MODEL COMPONENT: Horizontal Tail T<sub>6</sub><sup>90</sup>  
 GENERAL DESCRIPTION: Same plan form as horizontal tail T<sub>6</sub><sup>90</sup> - Cut down from  
T<sub>3</sub> symmetrical Vee Tail.

DRAWING NUMBER: WT 70-105204

DIMENSIONS: FULL-SCALE (0.0035) MODEL SCALE

TOTAL DATA

Area		
Planform	_____	_____
Wetted	_____	_____
Span (equivalent)	_____	_____
Aspect Ratio	_____	_____
Rate of Taper	_____	_____
Taper Ratio	_____	_____
Diehedral Angle, degrees	_____	_____
Incidence Angle, degrees	_____	_____
Aerodynamic Twist, degrees	_____	_____
Toe-In Angle	_____	_____
Cant Angle	_____	_____
Sweep Back Angles, degrees	_____	_____
Leading Edge	_____	_____
Trailing Edge	_____	_____
0.25 Element Line	_____	_____
Chords:		
Root (Wing Sta. 0.0)	_____	_____
Tip, (equivalent)	_____	_____
MAC	_____	_____
Fus. Sta. of .25 MAC	_____	_____
W.P. of .25 MAC	_____	_____
B.L. of .25 MAC	_____	_____
Airfoil Section		
Root	_____	_____
Tip	_____	_____
<u>EXPOSED DATA</u> PER SIDE	NACA 0016	_____
	NACA 0014	_____

Area	818 ft <sup>2</sup>	1.442 in <sup>2</sup>
Span, (equivalent)	26.83 ft	1.127 in
Aspect Ratio	_____	_____
Taper Ratio	.723	.723
Chords		
Root	35.41 ft	1.487 in
Tip	25.52 ft	1.072 in
MAC	30.74 ft	1.291 in
Fus. Sta. of .25 MAC	_____	_____
W.P. of .25 MAC	_____	_____
B.L. of .25 MAC	_____	_____

MODEL COMPONENT: Vertical Tail V<sub>3</sub>

GENERAL DESCRIPTION: Same plan form as V<sub>1</sub> but does not have rudder component.

V<sub>1</sub> which was same hardware as T<sub>3</sub> (sym. V tail) no longer exists V<sub>1</sub> or T<sub>3</sub> cut  
down to make T<sub>6</sub>.

DRAWING NUMBER: WT 70-105204

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
<u>TOTAL DATA</u>		
Area		
Planform		
Wetted		
Span (equivalent)		
Aspect Ratio		
Rate of Taper		
Taper Ratio		
Diehedral Angle, degrees		
Incidence Angle, degrees		
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge		
Trailing Edge		
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)		
Tip, (equivalent)		
MAC, inches		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
Airfoil Section		
Root	NACA 0016	
Tip	NACA 0014	

<u>EXPOSED DATA</u>	<u>PER SIDE</u>	
Area	1168 ft <sup>2</sup>	2.06 in <sup>2</sup>
Span, (equivalent)	42.29 ft	1.770 in
Aspect Ratio	1.531	1.531
Taper Ratio:	.560	.560
Chords		
Root	35.40 ft	1.487 in
Tip	19.81 ft	.832 in
MAC	28.24 ft	1.100 in
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		

MODEL COMPONENT: Ruddervator

GENERAL DESCRIPTION: Ruddervator for T<sub>1</sub><sup>X</sup>, Vee tail

DRAWING NUMBER: WT 70-105204

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>408 ft<sup>2</sup></u>	<u>0.720 in<sup>2</sup></u>
Span (equivalent)	<u>42.29 ft</u>	<u>1.776 in</u>
Inb'd equivalent chord	<u>12.38 ft</u>	<u>0.520 in</u>
Outb'd equivalent chord	<u>6.93 ft</u>	<u>0.291 in</u>
Ratio Elevator chord/horizontal tail chord		
At Inb'd equiv. chord	<u>0.35</u>	<u>0.35</u>
At Outb'd equiv. chord	<u>0.35</u>	<u>0.35</u>
Sweep Back Angles, degrees		
Leading Edge	<u>          </u>	<u>          </u>
Trailing Edge	<u>31.5</u>	<u>31.5</u>
Hingeline	<u>37.5</u>	<u>37.5</u>
Area Moment (Normal to hinge line)	<u>          </u>	<u>          </u>
Control Deflections, deg.	Left, $\delta_{Lr}$	Right, $\delta_{Rr}$
	20 T.E. Down	20
	0	10
	-10	0
	-20	-10
	-40	-20
		-40 T.E. Up

MODEL COMPONENT: Elevator for T<sub>6</sub><sup>90</sup> horizontal tail

GENERAL DESCRIPTION: Cut down from that for T<sub>3</sub><sup>X</sup> Vee-tail-symmetrical section

DRAWING NUMBER: WT 70-105204

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>(0.0035) MODEL SCALE</u>
Area	<u>286.3 ft<sup>2</sup></u>	<u>.5043 in<sup>2</sup></u>
Span (equivalent)	<u>26.83 ft</u>	<u>1.127 in</u>
Inb'd equivalent chord	<u>12.38 ft</u>	<u>0.520 in</u>
Outb'd equivalent chord	<u>8.93 ft</u>	<u>0.375 in</u>
Ratio Elevator chord/horizontal tail chord		
At Inb'd equiv. chord	<u>.35</u>	<u>.35</u>
At Outb'd equiv. chord	<u>.35</u>	<u>.35</u>
Sweep Back Angles, degrees		
Leading Edge	<u>                    </u>	<u>                    </u>
Trailing Edge	<u>32.0</u>	<u>32.0</u>
Hingeline	<u>37.5</u>	<u>37.5</u>
Area Moment (Normal to hinge line)	<u>                    </u>	<u>                    </u>
$\delta_{ee}$		0, -20, -40

MODEL COMPONENT: Elevon for Delta wing

GENERAL DESCRIPTION: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DRAWING NUMBER: WT 70-105204

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	(0.0035) <u>MODEL SCALE</u>
Area	<u>793.2 ft<sup>2</sup></u>	<u>1.398 in<sup>2</sup></u>
Span (equivalent)	<u>53.24 ft</u>	<u>2.236 in</u>
Inb'd equivalent chord	<u>18.76 ft</u>	<u>.783 in</u>
Outb'd equivalent chord	<u>11.00 ft</u>	<u>.462 in</u>
Ratio Elevator chord/horizontal tail chord		
At Inb'd equiv. chord	<u>.212</u>	<u>.212</u>
At Outb'd equiv. chord	<u>.610</u>	<u>.610</u>
Sweep Back Angles, degrees		
Leading Edge	<u>8</u>	<u>8</u>
Trailing Edge	<u>0</u>	<u>0</u>
Hingeline	<u>    </u>	<u>    </u>
Area Moment (Normal to hinge line)	<u>    </u>	<u>    </u>
Control Deflection, Left ( $\delta_{Le}$ ) and right ( $\delta_{Re}$ )	<u>5, 0, 5, -5, -10, -20</u> <u>-40, and -60.</u>	

TEST GDHWT 247-0 DATA SET COLLATION SHEET

PRETEST

POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		CONTROL DEFLECTION				NO. of RUNS	MACH NUMBERS															
		$\alpha$	$\beta$	$\delta_{Le}$	$\delta_{Re}$	$\delta_{Lr}$	$\delta_{Rr}$		8.05															
RC9002	BIW3T6-90V3	A	0	0	0	-	-	1	2															
RC9003				-20	-20	-	-	1	3															
RC9004	↓			-40	-40	-	-	1	4															
RC9005	BIW1T6-90V3			-20	-20	-	-	1	5															
RC9006	BIW2T6-90V3			-20	-20	-	-	1	6															
RC9007	BIW3T1-55			-	-	0	0	1	7															
RC9008				-	-	-10	-10	1	8															
RC9009				-	-	-20	-20	1	9															
RC9010	↓			-	-	-40	-40	1	10															
RC9011	BIW3T1-90V3			-20	-20	-	-	1	11															
RC9012	BIW3			-	-	-	-	1	12															
RC9013	BI			-	-	-	-	1	13															
RC9014	BIT6-90V3			0	0	-	-	1	14															
RC9015	↓			-20	-20	-	-	1	15															
RC9016	↓			-40	-40	-	-	1	16															
RC9031	BI5W3T6-90V3			-20	-20	-	-	1	31															
RC9032	BI4W3T6-90V3			-20	-20	-	-	1	32															
RC9033	BIW3T6-90V3			0	-20	-	-	1	33															
RC9034	↓			+20	+20	-	-	1	34															
RC9035	BIT6-90V3	V	V	+20	+20	-	-	1	35															

1            2            13            19            24            31            37            43            49            55            61            67            75 76

CLM    CN    CYN    CY    CBL    CA    CAB    CL    CD    L/D    10

COEFFICIENTS: \_\_\_\_\_ |DPVAR(1)|DPVAR(2)|DIV

$\alpha$  or  $\beta$   
SCHEDULES

$\alpha A = 0$  to 56 DEGREES

TEST GDHWT 247-0 DATA SET COLLATION SHEET

PRETEST

POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		CONTROL DEFLECTION				NO. of RUNS	MACH NUMBERS															
		$\alpha$	$\beta$	$\delta_{LE}$	$\delta_{PC}$	$\delta_{LT}$	$\delta_{PT}$		8.05															
RC9036	BIT1-55	A	0	-	-	0	0	1	36															
RC9037	↓			-	-	+20	+20	1	37															
RC9038	↓			-	-	-40	-40	1	38															
RC9039	BIW3T6-90V3			+20	0	-	-	1	39															
RC9040	↓			+20	+20	-	-	1	40															
RC9041	↓	Y	Y	0	+20	-	-	1	41															

20

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

CLM    CN    ICYN    ICY    ICBL    CA    CAB    CL    CD    L/D    1.0

COEFFICIENTS:

IDPVAR(1) | IDPVAR(2) | NDV

$\alpha$  or  $\beta$   
SCHEDULES

\_\_\_\_\_

\_\_\_\_\_

$\alpha = 0$  to 56 DEGREES



TEST GDHWT 247-0 DATA SET COLLATION SHEET

PRETEST

POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		CONTROL DEFLECTION				NO. OF RUNS	MACH NUMBERS																							
		$\alpha$	$\beta$	$\delta_{Le}$	$\delta_{Re}$																											
RC9017	B7 W5 V3	A	0	15	15			1	17																							
RC9019				0	0			1	19																							
RC9020				-10	-10			1	20																							
RC9021				-40	-40			1	21																							
RC9022				-60	-60			1	22																							
RC9023				-20	-20			1	23	11																						
RC9024	$\downarrow$			0	-20			1	24																							
RC9025	B7 V3			-	-			1	25																							
RC9026	B7			-	-			1	26																							
RC9027	B7 W5 V3			0	0			1	27																							
RC9028	B7 W5 V3 E7			0	0			1	28																							
RC9029	B7 W5 V3			-10	-10			1	29																							
RC9030	B7 W5 V3	$\downarrow$	$\downarrow$	-20	-20			1	30																							

at

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CLM	GN	CYN	CY	CBL	CA	CAB	CL	CD	L/D				10

COEFFICIENTS: \_\_\_\_\_ → IDPVAR(1) IDPVAR(2) NOV

" or β \_\_\_\_\_  
 SCHEDULES \_\_\_\_\_  
 $\gamma_A = 0$  to  $56$  DEGREES

TEST GUUV1 2710 DATA SET DESCRIPTOR SHEET

DATA SET IDENTIFIER	DATA SET DESCRIPTOR				R.C. NO.	CURVE SLOPE RANGE			
	11	21	31	41		51 LOWER LIMIT	61 UPPER LIMIT		
RC9002	G.D.H.WT. 247	B.I.W.3T6-90V3	ELEVTR =	0	A.I.L.RON =	0	11	-1.0	1.0
RC9003		↓		-20			0	11	
RC9004		↓		-40			0	11	
RC9005		B.I.W.2T6-90V3		-20			0	11	
RC9006		B.I.W.1T6-90V3		-20			0	11	
RC9007		B.I.W.3T1-55		10			0	11	
RC9008		↓		-10			0	11	
RC9009		↓		-20			0	11	
RC9010		↓		-40			0	11	
RC9011		B.I.W.3T11-90V3	↓	-20	↓		0	11	
RC9012		B.I.W.3					1	11	
RC9013		B.I.					1	11	
RC9014		B.I.T.6-90V3	ELEVTR =	0	A.I.L.RON =	0	11		
RC9015		↓		-20			0	11	
RC9016		↓		-40			0	11	
RC9031		B.I.5.W.3T6-90V3		-20			0	11	
RC9032		B.I.4.W.3T6-90V3		-20			0	11	
RC9033		B.I.W.3T6-90V3		-10			10	11	
RC9034		↓		20			0	11	
RC9035	↓	B.I.T.6-90V3	↓	20	↓		0	11	↓

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1	SREF(1)	11	SREF(2)	21	LREF(1)	31	LREF(2)	41	BREF(1)	51	BREF(2)	61	XMRP(1)	71	XMRP(2)
	12.694		SG IN		10.038		IN		1.470		IN		6.292		IN FROM I.I.S.E.
	0.0		IN		0.0		IN		0.0035				ITN-70-AE-13		
	Y:IRP(1)		YMRP(2)		ZMRP(1)		ZMRP(2)		SCALE(1)		SCALE(2)		FILREF		

TEST GDHWT 247-0 DATASET DESCRIPTOR SHEET

DATA SET IDENTIFIER	DATA SET DESCRIPTOR				Node Type	CURVE SLOPE RANGE	
	11	21	31	41		51 LOWER LIMIT	61 UPPER LIMIT
RC9036	GDHWT 247	BITI-55	ELEVTR = 0	AILRON =	011	-1.01	1.01
RC9037			20		011		
RC9038			-40		011		
RC9039		BITI-6-90V3	10		1011		
RC9040			20		011		
RC9041			10		-1011		

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1	SREF(1)	11	SREF(2)	21	LREF(1)	31	LREF(2)	41	BREF(1)	51	BREF(2)	61	XMRP(1)	71	XMRP(2)
	12.674		SQ IN		10.038		IN		1.470		IN		6.292		IN
	0.0		IN		0.0		IN		0.0035				IN-70-AE-13		
	YMRP(1)		YMRP(2)		ZMRP(1)		ZMRP(2)		SCALE(1)		SCALE(2)		FILREF		

TEST GDHWT 247-0 DATA SET DESCRIPTOR SHEET

DATA SET IDENTIFIER	DATA SET DESCRIPTOR				Node Type	CURVE SLOPE RANGE	
	11	21	31	41		51 LOWER LIMIT	61 UPPER LIMIT
RC9017	GDHWT 247	B7W5V3	ELEVTR = 5	AILRON =	C11	-1.0	1.0
RC9019			0		C11		
RC9020			-10		C11		
RC9021			-40		C11		
RC9022			-60		C11		
RC9023			-20		C11		
RC9024		↓	↓ -10	↓	10C11		
RC9025		B7V3			L1		
RC9026		B7			L1		
RC9027		B7W5V3	ELEVTR = 10	AILRON =	C11		
RC9028		B7W5V3E7	0		C11		
RC9029		B7W5V3	-10		C11		
RC9030	↓	↓	↓ -20	↓	C11	↓	↓

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1	SREF(1)	11	SREF(2)	21	LREF(1)	31	LREF(2)	41	BREF(1)	51	BREF(2)	61	XMRP(1)	71	XMRP(2)
	12.674		50 IN		10.038		IN		1.470		IN		6.400		IN
	0.0		IN		0.0		IN		0.115				IN-70-AE-13		
	YMRP(1)		YMRP(2)		ZMRP(1)		ZMRP(2)		SCALE(1)		SCALE(2)		FILREF		

DATA SET PARAMETER NAME SHEET

TEST GDHWT 247-0

DATA SET IDENTIFIER	PARAMETER NAMES (Format 10A6)										NPRA													
	1	7	13	19	25	31	37	43	49	55		61												
RC9002	B	E	T	A	.	E	L	E	V	T	R	R	U	D	D	E	R	A	I	L	R	Ø	N	4
RC9003																							4	
RC9004																							4	
RC9005																							4	
RC9006																							4	
RC9007																							3	
RC9008																							3	
RC9009																							3	
RC9010																							3	
RC9011																							4	
RC9012																							1	
RC9013																							1	
RC9014																							4	
RC9015																							4	
RC9016																							4	
RC9031																							4	
RC9032																							4	
RC9033																							4	
RC9034																							4	
RC9035																							4	

DATA SET PARAMETER NAME SHEET  
 TEST GDHWT 247-0

DATA SET IDENTIFIER	PARAMETER NAMES (Format 10A6)										NPAR												
	1	7	13	19	25	31	37	43	49	55		61											
RC9017	B	E	T	A	E	L	E	V	T	R	R	U	D	D	E	R	A	I	L	R	O	N	4
RC9019																						4	
RC9020																						4	
RC9021																						4	
RC9022																						4	
RC9023																						4	
RC9024																						4	
RC9025																						2	
RC9026																						1	
RC9027																						4	
RC9028																						4	
RC9029																						4	
RC9030																						4	

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DATA SET PARAMETER NAME SHEET

TEST GDHWT 247-0

DATA SET IDENTIFIER	PARAMETER NAMES (Format 10A6)											NPR
	1	7	13	19	25	31	37	43	49	55	61	
Rc9036	BETA ELEVTRAILRON											3
Rc9037	↓											3
Rc9038	↓	↓										3
Rc9039			↓									4
Rc9040				↓	↓							4
Rc9041	↓	↓	↓	↓								4

DATA SET PARAMETER VALUE SHEET

TEST GDHWT 247-0

DATA SET IDENTIFIER	PARAMETER VALUE (Format I0F8.3)									
	1	9	17	25	33	41	49	51	65	73
RC9002	0.0		0.0	0.0		0.0				
RC9003			-20.0							
RC9004			-40.0							
RC9005			-20.0							
RC9006			-20.0							
RC9007			0.0							
RC9008			-10.0							
RC9009			-20.0							
RC9010			-40.0							
RC9011			-20.0			0.0				
RC9012										
RC9013										
RC9014			0.0	0.0		0.0				
RC9015			-20.0							
RC9016			-40.0							
RC9031			-20.0							
RC9032			-20.0							
RC9033			-10.0			10.0				
RC9034			20.0			0.0				
RC9035			20.0							



DATA SET PARAMETER VALUE SHEET

TEST GDHW 247-0

DATA SET IDENTIFIER	PARAMETER VALUE (Format 10F8.3)									
	1	9	17	25	33	41	49	51	65	73
RC9017	0.0	5.0	0.0	0.0						
RC9019		0.0								
RC9020		-10.0								
RC9021		-40.0								
RC9022		-60.0								
RC9023		-20.0								
RC9024		-10.0	↓		-10.0					
RC9025		0.0								
RC9026										
RC9027		0.0	0.0	0.0						
RC9028		↓								
RC9029		-10.0								
RC9030	↓	-20.0	↓							

DATA SET PARAMETER VALUE SHEET

TEST GDHWT 247-0

DATA SET IDENTIFIER	PARAMETER VALUE (Format 10F8.3)									
	1	9	17	25	33	41	49	51	65	73
RC9036	0.0	0.0	0.0							
RC9037		+20.0								
RC9038		-40.0								
RC9039		+10.0		+10.0						
RC9040		+20.0		0.0						
RC9041		+10.0		-10.0						

## TEST FACILITY

The General Dynamics Hypersonic Wind Tunnel, which complements low-speed and high-speed tunnels to satisfy a wide range of testing requirements, has an axisymmetric open throat nozzle providing flow at Mach number 8, 10, and 12. The nozzle is 18 inches in diameter at the entrance to the test region. The tunnel airflow, obtained directly from the High-Speed Wind Tunnel compressor at 550 psia, is raised to a range of 900° to 1,100°F by a gas-fired heater.

The heated air to the tunnel passes through a two-way valve that serves as a settling chamber and has both a bypass port and a tunnel port. The bypass port allows the heated air to flow through the piping and settling chamber for pre-heat prior to each run.

A two-stage ejector system is located downstream of the test section; air supplied by storage tanks at the adjacent High-Speed Wind Tunnel allows a run time of approximately three minutes.

The tunnel throat is housed in the test chamber which is a steel box approximately 8 feet high, 4 feet wide, and 6 feet long. Twelve-by-sixteen-inch windows permit viewing and Schlieren photography.

A model support is provided to both inject the model into the flow after the tunnel starts and to pitch the model during the run. The support has a pitch range of 60 degrees at a rate up to 1 degree per second.

TEST FACILITY (Continued)

The data obtained at the Hypersonic Wind Tunnel is either fed directly into the High-Speed Tunnel IBM 1800 on an as available basis, or is stored on paper tape and computed later.

## NOMENCLATURE

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
$A_b$		base area; $m^2$ , $ft^2$ , $in^2$
a		speed of sound; m/sec, ft/sec
AR	ASPECT	aspect ratio, $b^2/S$
b	REFB	wing span or reference span; m, ft, in
c		wing chord; m, ft, in.
$\bar{c}$		wing mean aerodynamic chord or reference chord; m, ft, in (see $l_{ref}$ or refl)
c.g.		center of gravity
C. P.		center of pressure
$C_A$	CA	axial force coefficient, $F_A/qS_{ref}$
$C_{A_b}$	CAB	base axial force coefficient, $[(p_\infty - p_b)/q] \cdot (A_b/S_{ref})$
$C_{A_f}$	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
$C_D$	CDTOTL	drag force coefficient in the wind axis system, $F_D/q S_{ref}$

NOMENCLATURE ( continued)

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
$C_D$	CD	drag force coefficient in the stability axis system, $F_D'/q S_{ref}$
$C_L$	CL	lift force coefficient ( stability or wind axis) $F_L/q S_{ref}$
$C_l$	CBL	rolling moment coefficient in body axis system, $M_X/q S_{ref} b$
$C_{l,s}$	CSL	rolling moment coefficient in the stability axis system, $M_{x,s}/q S_{ref} b$
$C_{l,w}$	CWL	rolling moment coefficient in the wind axis system, $M_{x,w}/q S_{ref} b$
$C_m$	CLM	pitching moment coefficient in the body axis system, $M_y/q S_{ref} \ell_{ref}$
$C_{m,s}$	CLM	pitching moment coefficient in the stability axis system, $C_{m,s} = C_m$
$C_{m,w}$	CPM	pitching moment coefficient in the wind axis system, $M_{y,w}/q S_{ref} \ell_{ref}$
$C_N$	CN	normal force coefficient in the body axis system, $F_N/q S_{ref}$

NOMENCLATURE (continued)

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
$C_n$	CYN	yawing moment coefficient in the body axis system, $M_z/q S_{ref} b$
$C_{n,s}$	CLN	yawing moment coefficient in the stability axis system, $C_{n,s} = C_n$
$C_{n,w}$	CLN	yawing moment coefficient in the wind axis system, $M_{z,w}/q S_{ref} b$
$C_p$	CP	pressure coefficient, $(p-p_\infty)/q$
$C_y$	CY	side force coefficient (body or stability axis system), $F_y/q S_{ref}$
$C_c$	CC	side force coefficient (wind axis system), $F_y/q S_{ref}$
$F_A$		axial force; N, lb
$F_D$		drag force in wind axis system; N, lb
$F'_D$		drag force in the stability axis system; N, lb
$F_L$		lift force (stability or wind axis system); N, lb
$F_N$		normal force; N, lb

NOMENCLATURE (continued)

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
$F_Y$		side force; N, lb
	N/A	normal to axial force ratio
$l_{ref}$	REFL	reference length; m, ft, in (see $\bar{c}$ )
L/D	L/D	lift-to-drag ratio, $C_L/C_D$ (stability axis system)
L/D	CL/CD	lift-to-drag ratio, $C_L/C_D$ (wind axis system)
M	MACH	Mach number
MRP	MRP	abbreviation for moment reference point
	XMRP	abbreviation for moment reference point on x-axis
	YMRP	abbreviation for moment reference point on y-axis
	ZMRP	abbreviation for moment reference point on z-axis
$M_x$		rolling moment in the body axis system; N-m, ft-lb
$M_{x,s}$		rolling moment in the stability axis system; N-m, ft-lb



NOMENCLATURE (continued)

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
$M_{x,w}$		rolling moment in the wind axis system; N-m, ft-lb
$M_y$		pitching moment in the body (or stability) axis system; N-m, ft-lb
$M_{y,w}$		pitching moment in the wind axis system; N-m, ft-lb
$M_z$		yawing moment in the body axis system; N-m, ft-lb
$M_{z,w}$		yawing moment in the wind axis system; N-m, ft-lb
p		static pressure; N/m <sup>2</sup> ; psi
P		total pressure; N/m <sup>2</sup> ; psi
q	Q(PSI) Q(PSE)	dynamic pressure; N/m <sup>2</sup> , psi, psf
RN/L	RN/L	Reynold's number per unit length; million/ft.
S		wing area; m <sup>2</sup> , ft <sup>2</sup>
$S_{ref}$	REFS	reference area; m <sup>2</sup> , ft <sup>2</sup>
T		temperature; °K, °C, °R, °F
V		speed of vehicle relative to surrounding atmosphere; m/sec, ft/sec

NOMENCLATURE (continued)

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
$i_T$		tail incidence positive when trailing edge down, deg
$\bar{V}$		velocity of vehicle relative to surrounding atmosphere; m/sec, ft/sec
$\alpha$	ALPHA	angle of attack, angle between the projection of the wind $X_w$ -axis on the body X, Z-plane and the body X-axis; deg
$\beta$	BETA	sideslip angle, angle between the wind $X_w$ -axis and the projection of this axis on the body X-Z-plane; deg
$\gamma$		ratio of specific heats
$\Gamma$	DIHDRL	wing dihedral angle; deg
$\delta$		control surface deflection angle; deg
		positive deflections are:
	AILRON	aileron - left aileron trailing edge down
	ELVATR	elevator - trailing edge down
	RUDDER	rudder - trailing edge to the left
	FLAP	flap - trailing edge down
	TAB	tab - trailing edge down with respect to control surface
$\rho$		air density; $K_g/m^3$ , slugs/ft <sup>3</sup>

NOMENCLATURE (continued)

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
$\theta$		pitch angle, angle of rotation about the body Y-axis, positive when the positive Z-axis is rotated toward the positive X-axis; deg
$\phi$	PHI	roll angle, angle of rotation about the body X-axis, positive when the positive Y-axis is rotated toward the positive Z-axis; deg
$\psi$	PSI	yaw angle, angle of rotation about the body Z-axis, positive when the positive X-axis is rotated toward the positive Y-axis; deg

## NOMENCLATURE (continued)

### SUBSCRIPTS

### DEFINITION

a	aileron
b	base
c	canard
e	elevator or elevon
f	flap
r	rudder or ruddervator
s	stability axis system
t	tail, or total conditions
w	wind axis system
ref	reference conditions
$\infty$	freestream condition

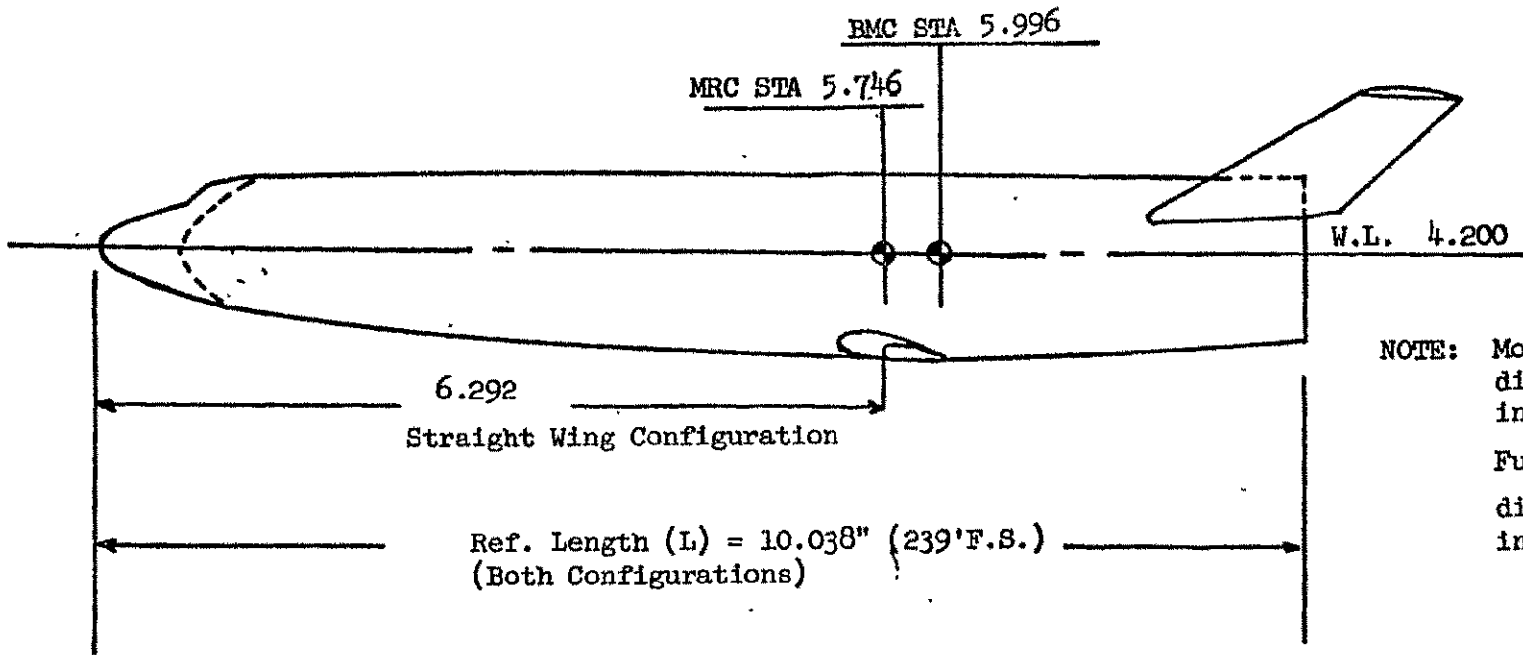
CHANGES TO NOMENCLATURE

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	
$F_D$		drag force in the stability axis system; N, lb
MRC	MRP	abbreviation for moment reference point
$M_x$		rolling moment in the body axis system, in-lb
$M_{x,s}$		rolling moment in the stability axis system; in-lb
$M_y$		pitching moment in the body (or stability) axis system, in-lb
$M_z$		yawing moment in the body axis system; in-lb
X		wing area, in <sup>2</sup>
$S_{ref}$	REFS	reference area, in <sup>2</sup>
		control surface deflection angle; deg
		(see data reduction section for greater detail)
		positive deflections are:
$\delta_a$	AILRON	aileron - left aileron trailing edge down
$\delta_e$	ELEVTR	elevator - trailing edge down
$\delta_r$	RUDDER	rudder - trailing edge to the left
$\delta_{le}, \delta_{re}$	ELEVON	elevon - trailing edge down
$\delta_{lr}, \delta_{rr}$	RUDVTR	ruddervator - trailing edge down

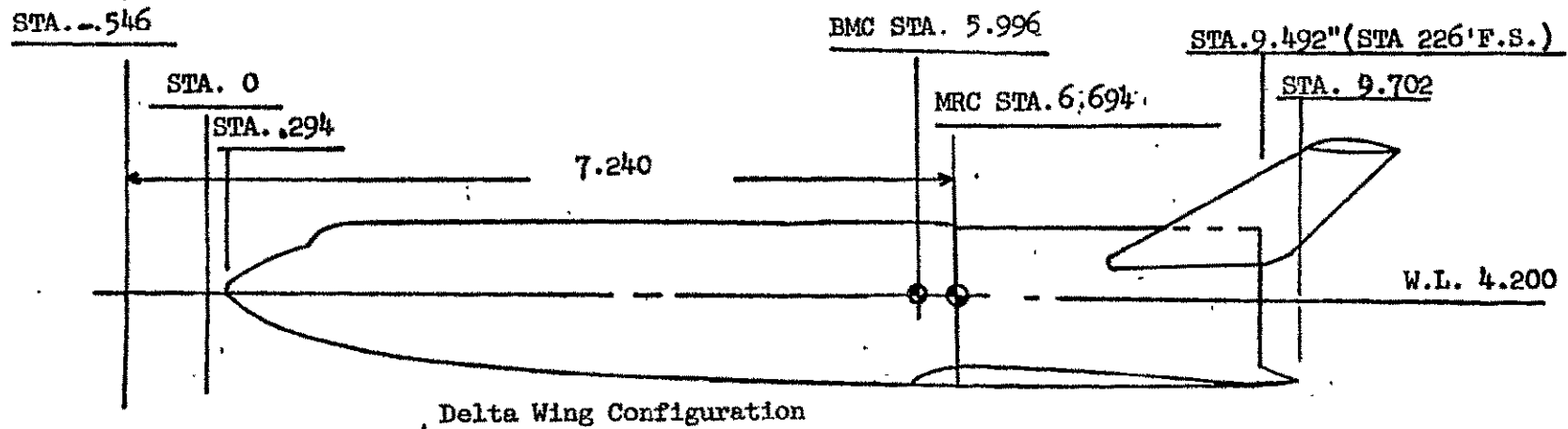
#### REFERENCES

1. Robinson, Harold Lester, "Pre-Test Report for a 0.0035 Scale Space Shuttle Booster Model in the Convair Hypersonic Wind Tunnel at 8.05 Mach", GD-Convair Aerodynamics Technical Note TN-70-AE-13, July 1970.
2. Anon, "General Dynamics Hypersonic Wind Tunnel", Brochure, not dated.

FIGURES



NOTE: Model scale dimensions are in inches. Full scale dimensions are in feet.

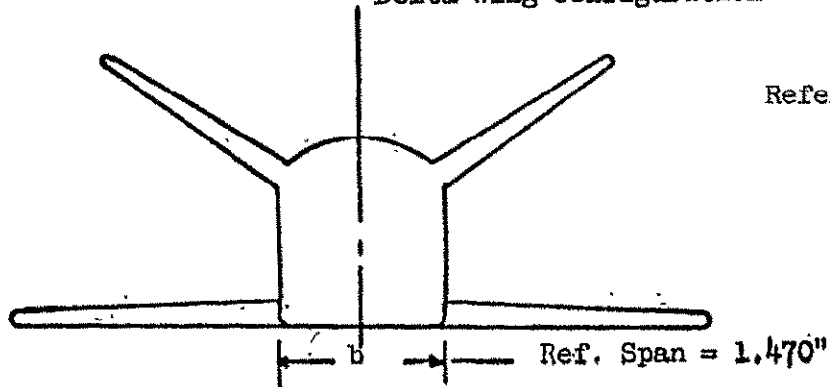


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Reference Area (S) = 12.679 sq. in.

Figure 1.

Moment Transfer Diagram and Reference Lengths.





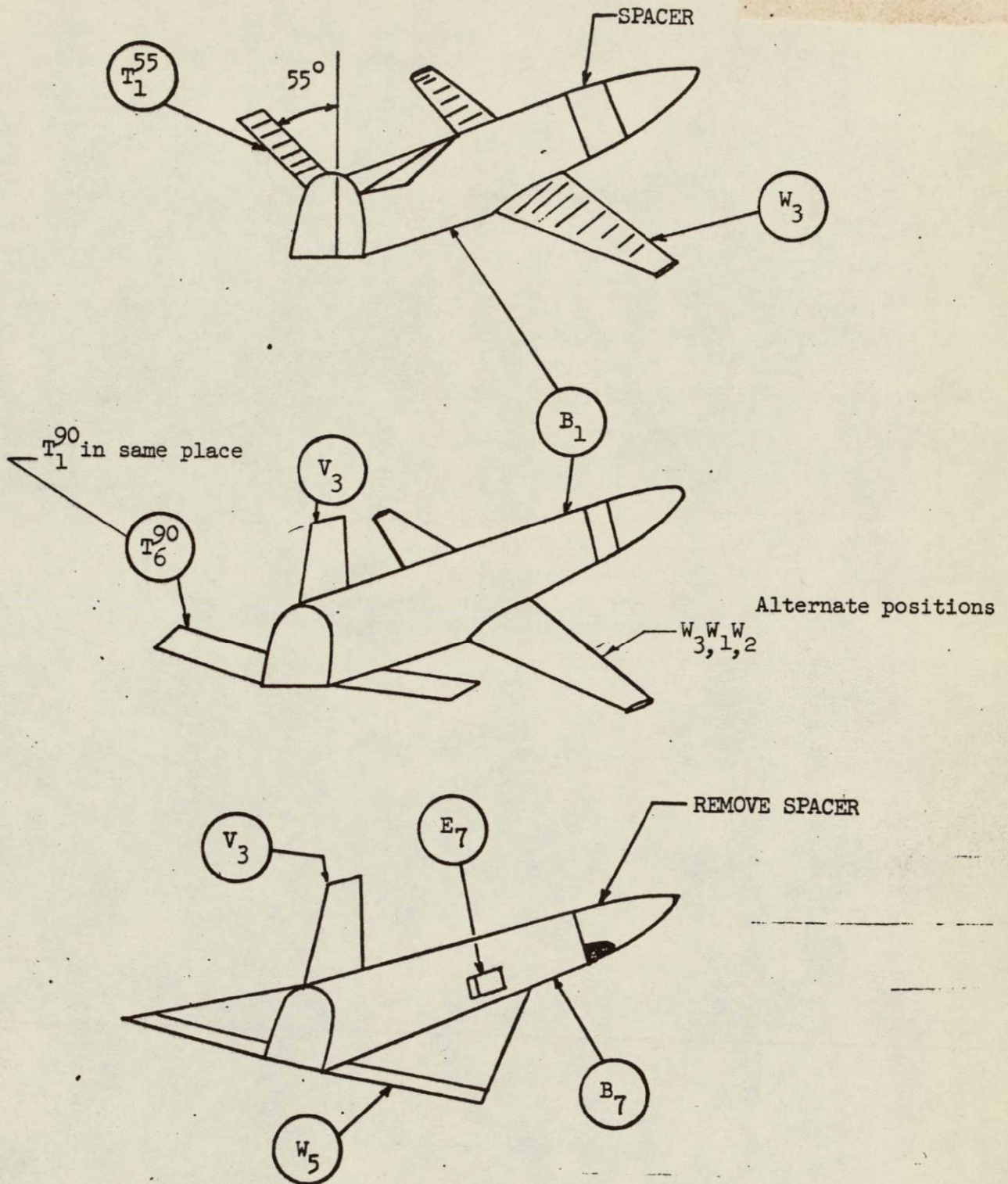


Figure 2. Isometric Views of Complete Configurations Tested.

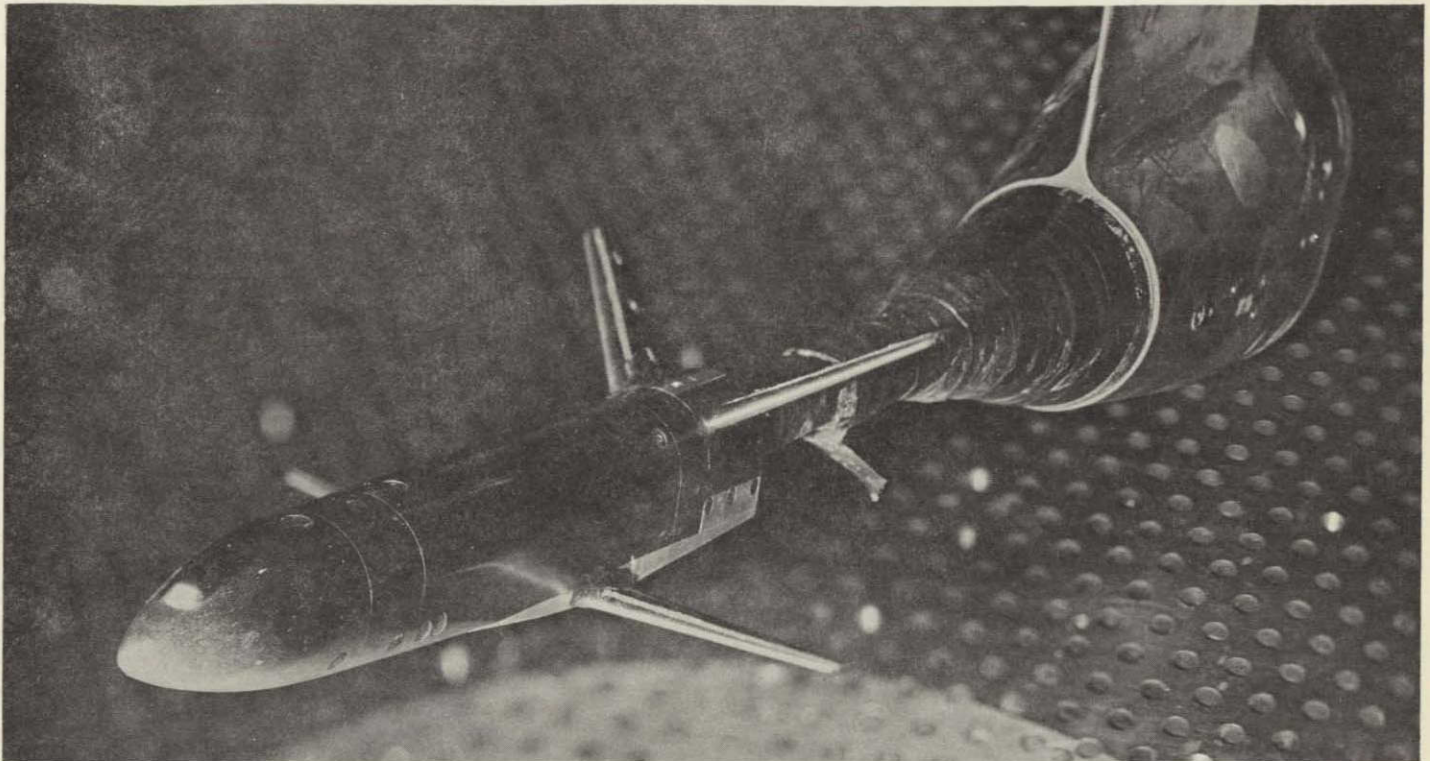


Figure 3. Photograph of the Straight Wing,  
Vee-Tail Model, BLW1T1-55  
(Model tested did not incorporate  
wing and tail fairings)

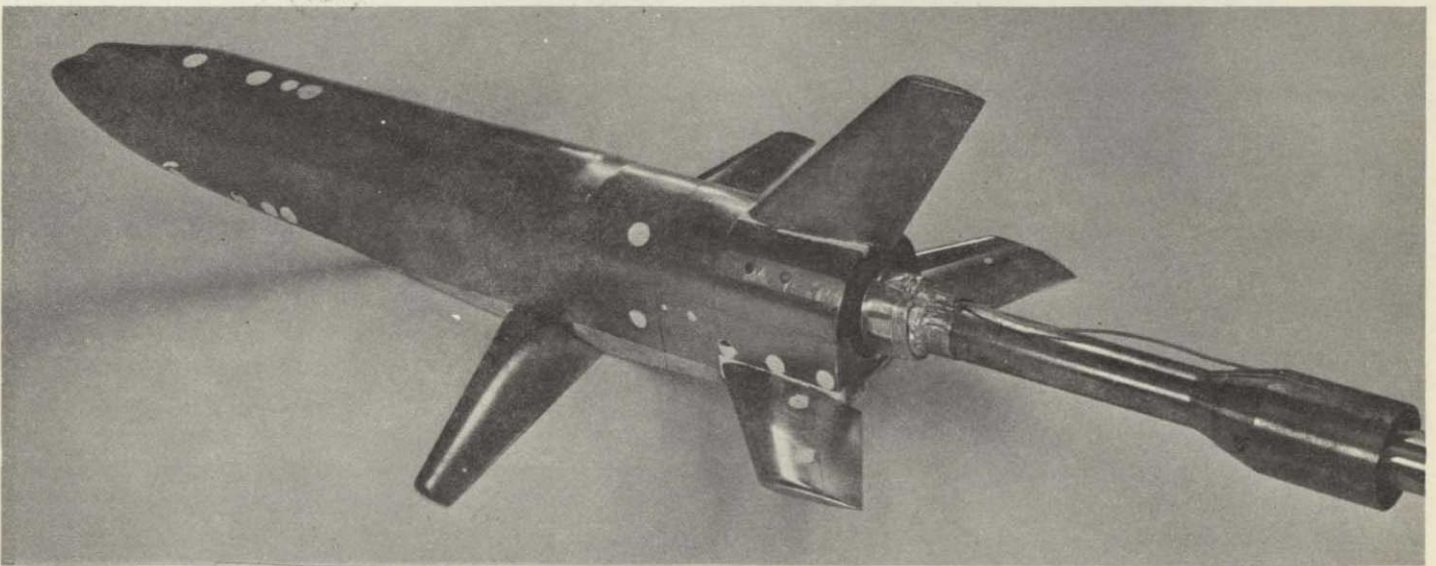


Figure 4. Photograph of the Straight Wing,  
Conventional Tail Model, BLW3T6-90V3

NOT REPRODUCIBLE

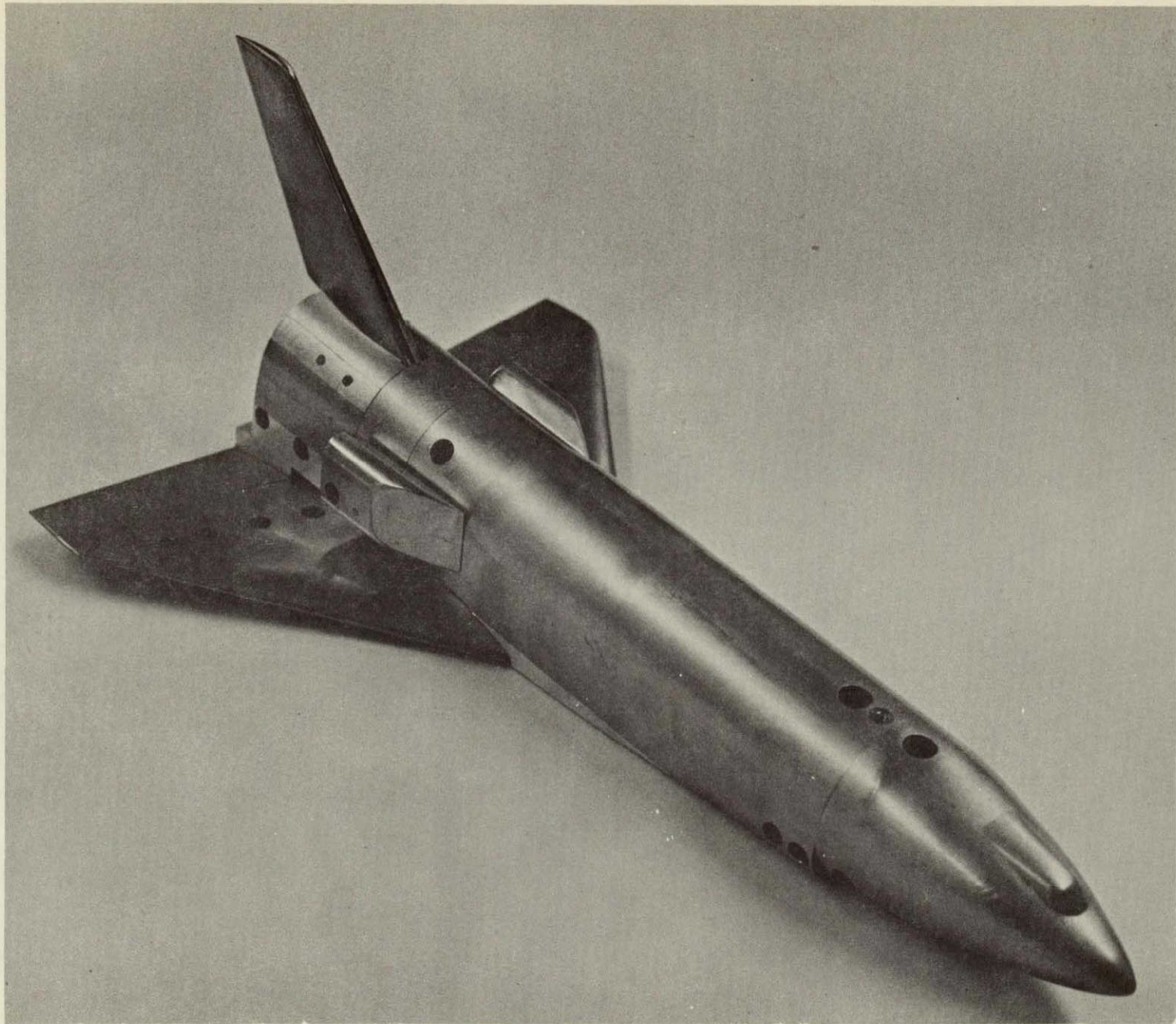


Figure 5. Photograph of Delta Wing Model  
with Simulated Cruise Engines,  
B7W5V3E7.

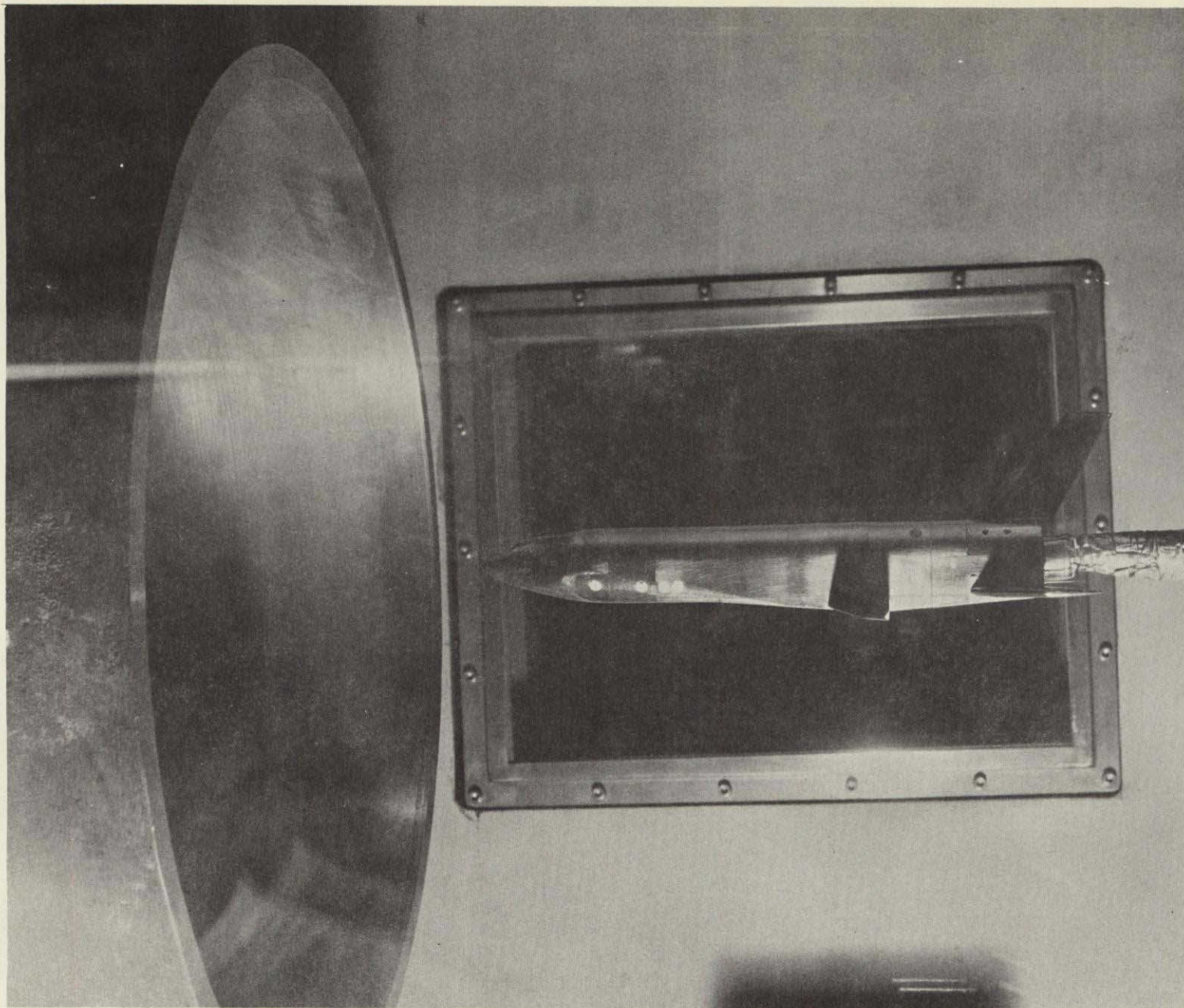


Figure 6. Photograph of the Straight Winged  
B8B Booster Model in the Tunnel  
Test Section, BLWT6-90V3

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.

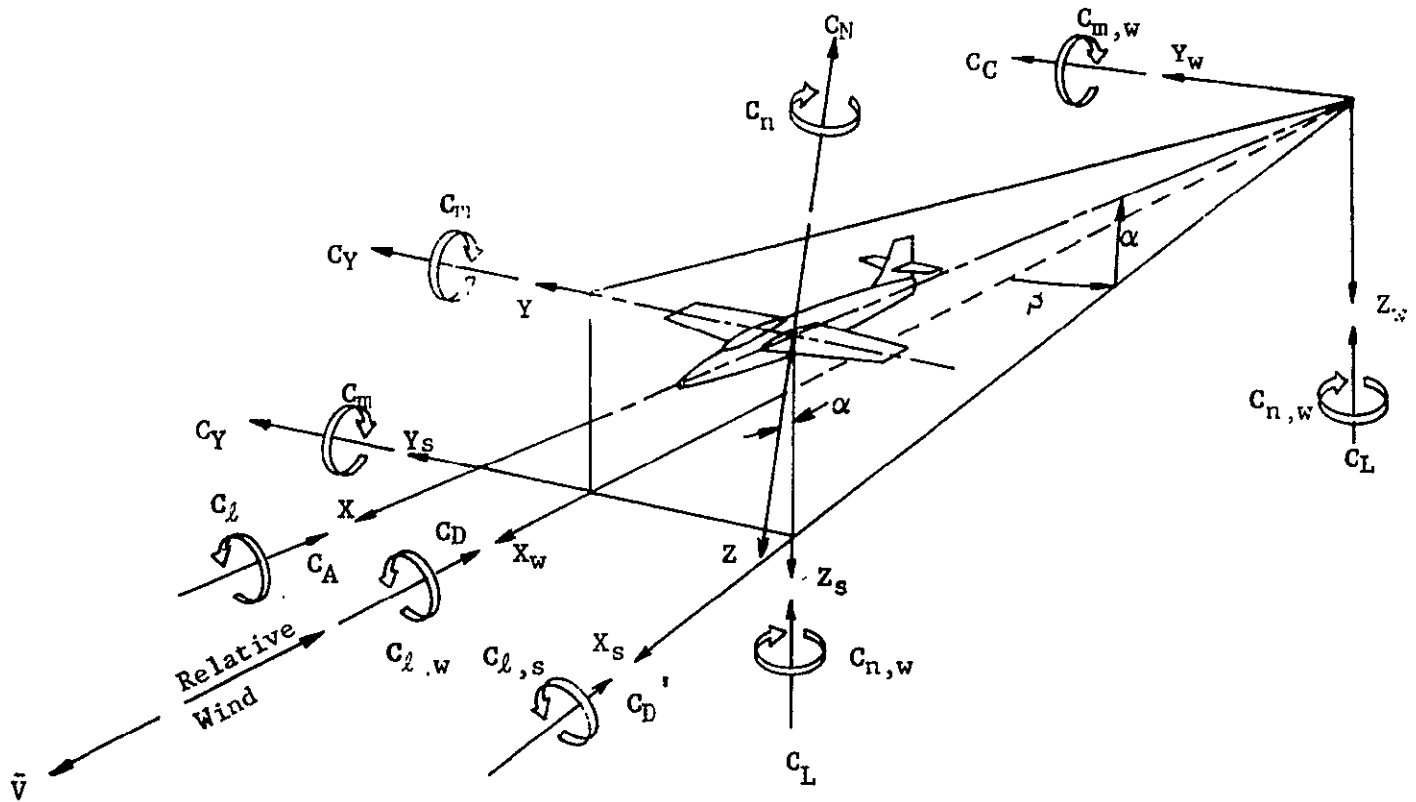


Figure 7. Axis systems, showing direction and sense of force and moment coefficients, angle of attack, and sideslip angle

DATA DISPLAY INDEX

DATA PLOT INDEX

DATA REPEATABILITY STRAIGHT WING CONFIGURATION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:  
RC9034 RC9040

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CA	ALPHA	1	1
CAB	ALPHA	2	2
CN	ALPHA	3	3
CL	ALPHA	4	4
L/D	ALPHA	5	5

DATA REPEATABILITY STRAIGHT WING CONFIGURATION

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:  
RC9034 RC9040

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CN	CLM	6	6
CL	CD	7	7

DATA REPEATABILITY DELTA WING CONFIGURATIONS

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:  
RC9030 RC9023

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CA	ALPHA	8	8
CAB	ALPHA	9	9
CN	ALPHA	10	10
CL	ALPHA	11	11
L/D	ALPHA	12	12

DATA PLOT INDEX

DATA REPEATABILITY DELTA WING CONFIGURATIONS

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:  
RC9029 RC9020

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CA	ALPHA	13	13
CAB	ALPHA	14	14
CN	ALPHA	15	15
CL	ALPHA	16	16
L/D	ALPHA	17	17

DATA REPEATABILITY DELTA WING CONFIGURATIONS

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:  
RC9027 BC9019

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CA	ALPHA	18	18
CAB	ALPHA	19	19
CN	ALPHA	20	20
CL	ALPHA	21	21
L/D	ALPHA	22	22

DATA REPEATABILITY DELTA WING CONFIGURATIONS

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMUVAR)

DATASETS PLOTTED:  
RC9030 RC9023

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CN	CLM	23	23
CL	CD	24	24



DATA PLOT INDEX

DATA REPEATABILITY DELTA WING CONFIGURATIONS

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:  
BC9029 RC9020

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CN	CLM	25	25
CL	CD	26	26

DATA REPEATABILITY DELTA WING CONFIGURATIONS

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:  
RC9027 BC9019

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CN	CLM	27	27
CL	CD	28	28

DATA PLOT INDEX

MODEL BUILDUP STRAIGHT AFT WING VEE TAIL

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:

RC9007 RC9036 RC9012 RC9013

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CA	ALPHA	29	29
CAB	ALPHA	30	30
CN	ALPHA	31	31
CL	ALPHA	32	32
L/D	ALPHA	33	33

MODEL BUILDUP STRAIGHT AFT WING VEE TAIL

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMUVAR)

DATASETS PLOTTED:

RC9007 RC9036 RC9012 RC9013

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CN	CLM	34	34
CL	CD	35	35

DATA PLOT INDEX

RUDDERVATOR EFFECTIVENESS LONGITUDINAL DATA BIW3T1-55

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:

RC9010 RC9009 RC9008 RC9007

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CA	ALPHA	36	36
CAB	ALPHA	37	37
CN	ALPHA	38	38
CL	ALPHA	39	39
L/D	ALPHA	40	40

RUDDERVATOR EFFECTIVENESS LONGITUDINAL DATA BIW3T1-55

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMUVAR)

DATASETS PLOTTED:

RC9010 RC9009 RC9008 RC9007

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CN	CLM	41	41
CL	CD	42	42

DATA PLOT INDEX

RUDDERVATOR EFFECTIVENESS LONGITUDINAL DATA BITI-55

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:  
 RC9038      RC9036      RC9037

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CA	ALPHA	43	43
CAB	ALPHA	44	44
CN	ALPHA	45	45
CL	ALPHA	46	46
L/D	ALPHA	47	47

RUDDERVATOR EFFECTIVENESS LONGITUDINAL DATA BITI-55

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:  
 RC9038      RC9036      RC9037

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

DATA PLOT INDEX

MODEL BUILDUP STRAIGHT AFT WING H-V TAIL

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:  
 RC9002      RC9014      RC9012      RC9013

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CA	ALPHA	50	50
CAB	ALPHA	51	51
CN	ALPHA	52	52
CL	ALPHA	53	53
L/D	ALPHA	54	54

MODEL BUILDUP STRAIGHT AFT WING H-V TAIL

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:  
 RC9002      RC9014      RC9012      RC9013

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CN	CLM	55	55
CL	CD	56	56

DATA PLOT INDEX

ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL BIW3T6-90V3

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:

RC9004 RC9003 RC9002 RC9040 RC9034

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CA	ALPHA	57	57
CAB	ALPHA	58	58
CN	ALPHA	59	59
CL	ALPHA	60	60
L/D	ALPHA	61	61

ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL BIW3T6-90V3

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:

RC9004 RC9003 RC9002 RC9040 RC9034

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CN	CLM	62	62
CL	CD	63	63

UNSYMMETRICAL ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL BIW3T6-90V3

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:

RC9033 RC9002 RC9039 RC9041

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CA	ALPHA	64	64
CAB	ALPHA	65	65
CN	ALPHA	66	66
CL	ALPHA	67	67
L/D	ALPHA	68	68

DATA PLOT INDEX

UNSYMMETRICAL ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL B1W3T6-90V3

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:

RC9033 RC9002 RC9039 RC9041

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CN	CLM	69	69
CL	CD	70	70

DATA PLOT INDEX

ELEVATOR EFFECTIVENESS H-V TAIL, STOWED WING BIT6-90V3

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:

RC9016      RC9015      RC9014      RC9035

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CA	ALPHA	71	71
CAB	ALPHA	72	72
CN	ALPHA	73	73
CL	ALPHA	74	74
L/D	ALPHA	75	75

ELEVATOR EFFECTIVENESS H-V TAIL, STOWED WING BIT6-90V3

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:

RC9016      RC9015      RC9014      RC9035

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



DATA PLOT INDEX

DIFFERENTIAL ELEVATOR LATERAL CONTROL EFFECT STRAIGHT WING H-V TAIL BIW3T6-9UV3

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, (FSALFA)

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
PC9041	DCBLDA	ALPHA	78	78
PC9041	DCYNDA	ALPHA	79	79
PC9041	DCY/DA	ALPHA	80	80

MODULE NUMBER 33 FMALFA

DATA PLOT INDEX

HORIZONTAL TAIL SIZE EFFECTS STRAIGHT AFT WING H-V TAIL, ELEVATR = 20 DEGREES

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:  
RC9003 RC9011 RC9012

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CA	ALPHA	81	81
CAB	ALPHA	82	82
CN	ALPHA	83	83
CL	ALPHA	84	84
L/D	ALPHA	85	85

HORIZONTAL TAIL SIZE EFFECTS STRAIGHT AFT WING H-V TAIL, ELEVATR = 20 DEGREES

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:  
RC9012 RC9011 RC9003

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CN	CLM	86	86
CL	CD	87	87

DATA PLOT INDEX

AFT SHELF EFFECT STRAIGHT AFT WING H-V TAIL, ELEVATOR = -20 DEG., INTERMEDIATE NOSE

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:  
RC9003 RC9032

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CA	ALPHA	88	88
CAB	ALPHA	89	89
CN	ALPHA	90	90
CL	ALPHA	91	91
L/D	ALPHA	92	92

AFT SHELF EFFECT STRAIGHT AFT WING H-V TAIL, ELEVATOR = -20 DEG., INTERMEDIATE NOSE

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:  
RC9003 RC9032

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CN	CLM	93	93
CL	CD	94	94

DATA PLOT INDEX

EFFECT OF WING POSITION, STRAIGHT WING, H-V TAIL, ELEVATOR = -20 DEG.

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:  
 RC9005      RC9006      RC9003

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CA	ALPHA	95	95
CAB	ALPHA	96	96
CN	ALPHA	97	97
CL	ALPHA	98	98
L/D	ALPHA	99	99

EFFECT OF WING POSITION, STRAIGHT WING, H-V TAIL, ELEVATOR = -20 DEG.

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:  
 RC9005      RC9006      RC9003

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

DATA PLOT INDEX

NOSE LENGTH EFFECTS STRAIGHT AFT WING H-V TAIL AFT SHELF ELEVATOR =-20 DEG.

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:  
RC9032 RC9031

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CA	ALPHA	102	102
CAB	ALPHA	103	103
CN	ALPHA	104	104
CL	ALPHA	105	105
L/D	ALPHA	106	106

NOSE LENGTH EFFECTS STRAIGHT AFT WING H-V TAIL AFT SHELF ELEVATOR =-20 DEG.

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVARI)

DATASETS PLOTTED:  
RC9032 RC9031

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CN	CLM	107	107
CL	CD	108	108

DATA PLOT INDEX

MODEL BUILDUP DELTA WING CONFIGURATION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:

RC9028 RC9027 BC9019 RC9025 RC9026

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CA	ALPHA	109	109
CAB	ALPHA	110	110
CN	ALPHA	111	111
CL	ALPHA	112	112
L/D	ALPHA	113	113

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:

RC9028 RC9027 BC9019 RC9025 RC9026

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CN	CLM	114	114
CL	CD	115	115

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:

RC9022 RC9021 RC9030 BC9029 BC9019 RC9017

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CA	ALPHA	116	116
CAB	ALPHA	117	117
CN	ALPHA	118	118
CL	ALPHA	119	119
L/D	ALPHA	120	120

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:

RC9022 RC9021 RC9030 BC9029 BC9019 RC9017

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

DATA PLOT INDEX

ASYMMETRICAL ELEVON EFFECTIVENESS DELTA WING B7W5V3

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:  
 RC9030    BC9029    RC9024    BC9019

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CA	ALPHA	123	123
CAB	ALPHA	124	124
CN	ALPHA	125	125
CL	ALPHA	126	126
L/D	ALPHA	127	127

ASYMMETRICAL ELEVON EFFECTIVENESS DELTA WING B7W5V3

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:  
 RC9030    BC9029    RC9024    BC9019

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE	
		BEGINNING	ENDING
CN	CLM	128	128
CL	CD	129	129

DATA PLOT INDEX

LATERAL ELEVON EFFECTIVENESS DELTA WING B745V3

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:  
NC9002 NC9041

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CBL	ALPHA	130	130
CYN	ALPHA	131	131
CY	ALPHA	132	132

DATASETS PLOTTED:  
NC9002 NC9039

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CBL	ALPHA	133	133
CYN	ALPHA	134	134
CY	ALPHA	135	135

DATASETS PLOTTED:  
NC9002 NC9033

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CBL	ALPHA	136	136
CYN	ALPHA	137	137
CY	ALPHA	138	138

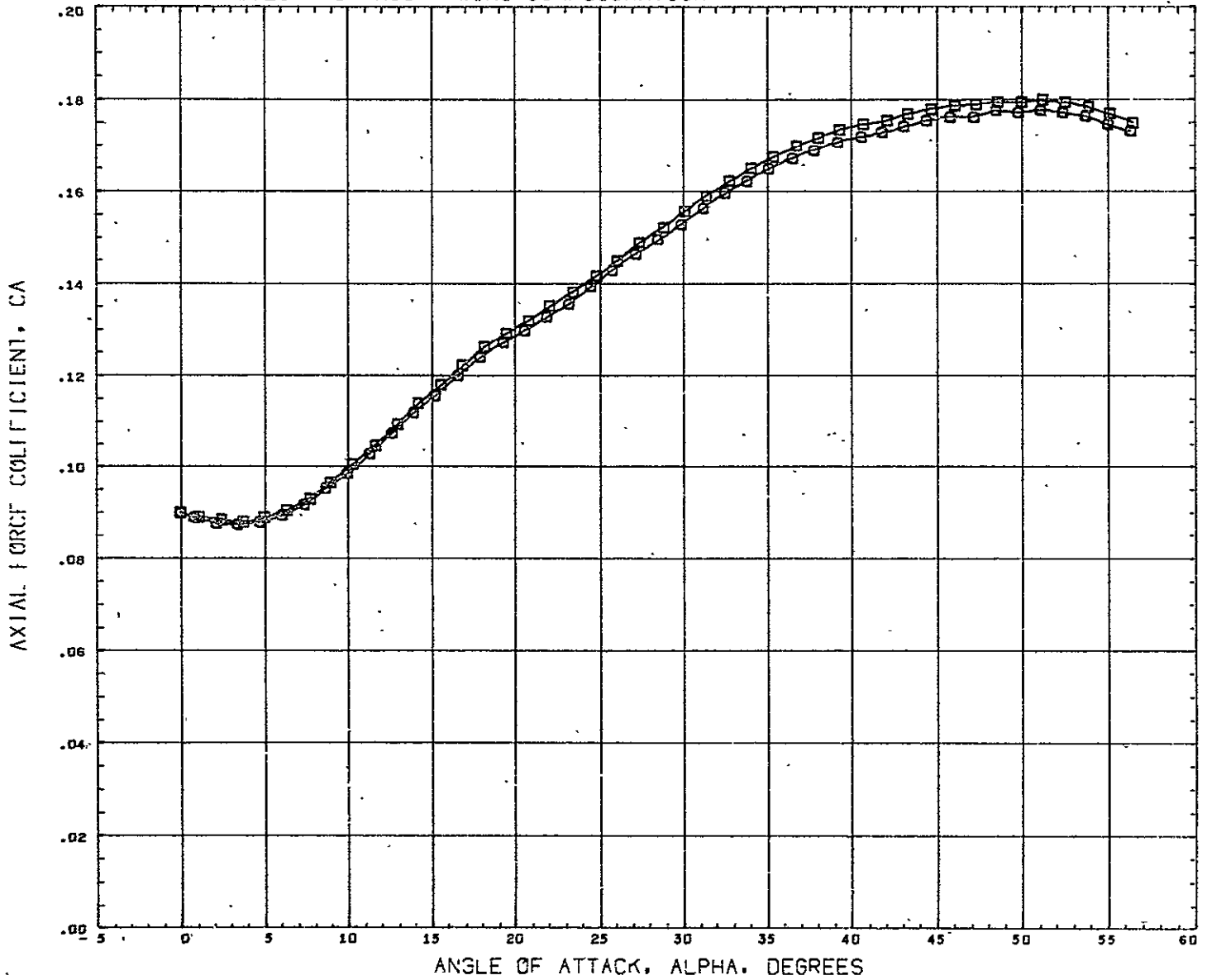
DATASETS PLOTTED:  
NC9019 NC9024

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CBL	ALPHA	139	139
CYN	ALPHA	140	140
CY	ALPHA	141	141



DATA

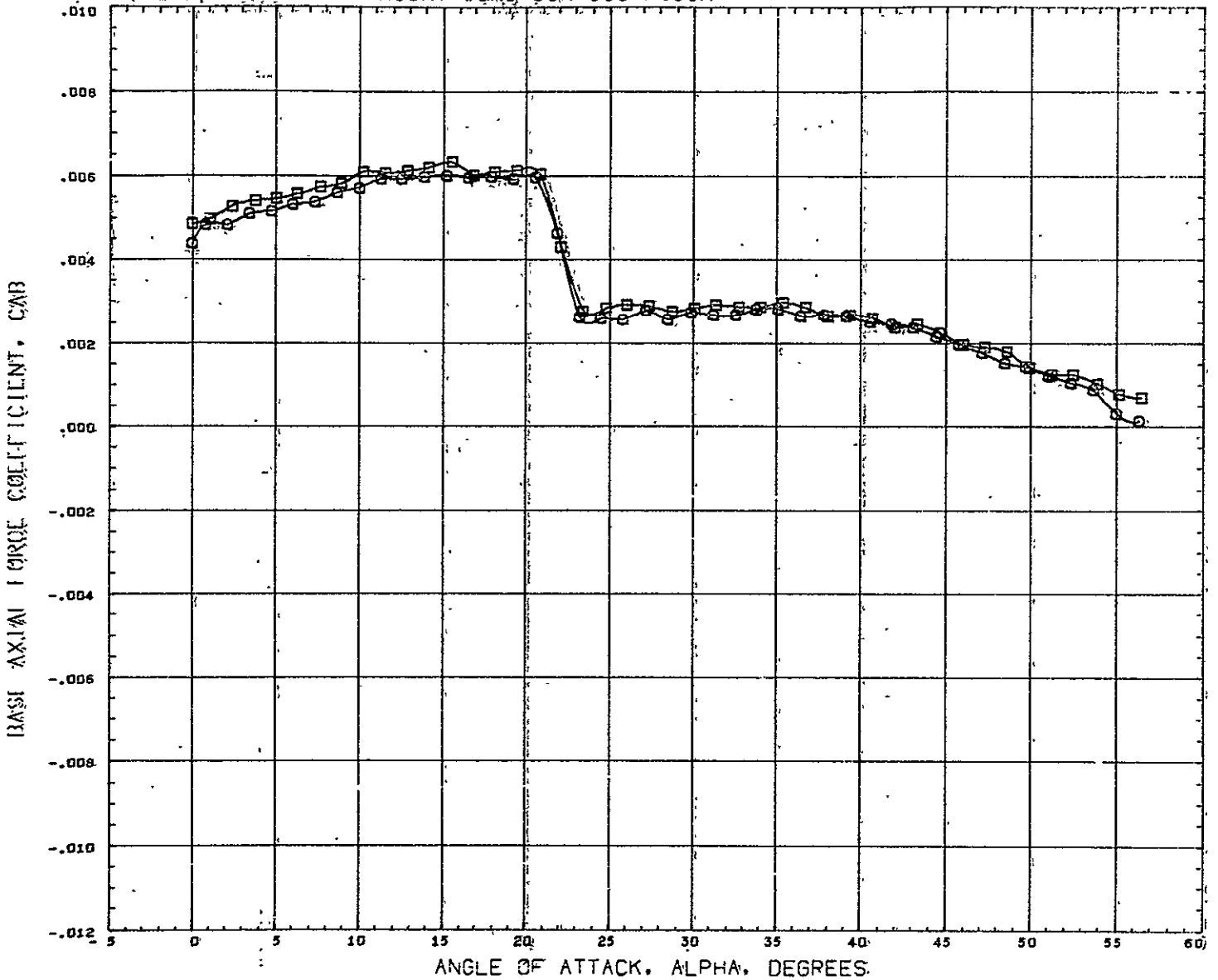
# DATA REPEATABILITY STRAIGHT WING CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9034)	GDHWT 247 B1W3T6-90V3	ELEVTR = 20 AILRON = 0 BETA 0.000 ELEVTR 20.000	REFS 12.6740 IN2
(RC9040)	GDHWT 247 B1W3T6-90V5	ELEVTR = 20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XHRP 6.2920 IN
			YHRP 0.0000 IN
			ZHRP 0.0000 IN
			SCALE 0.0035

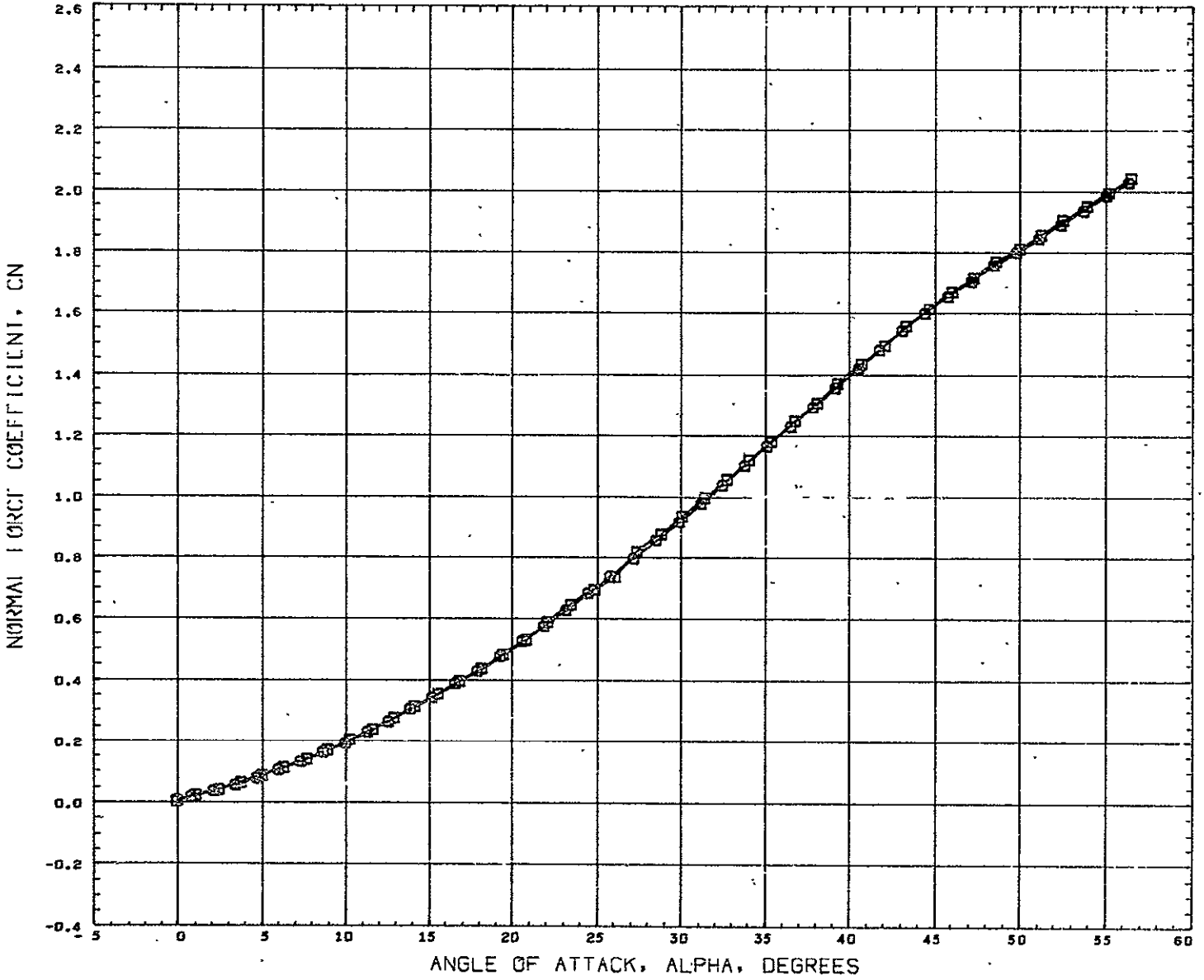
MACH 8.050

DATA REPEATABILITY STRAIGHT WING CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9034)	GDHWT 247 B1W3T6-9DV3 ELEVTR = 20 AILRON = 0	BETA 0.000 ELEVTR 20.000	REFS 12.6749 IN <sup>2</sup>
(RC9040)	GDHWT 247 B1W3T6-9DV3 ELEVTR = 20 AILRON = 0 RUDDER.	0.000 AILRON 0.000	REFL 10.0380 IN <sup>2</sup>
			REFB 1.4700 IN <sup>2</sup>
			XMRP 6.2920 IN <sup>2</sup>
			YMRP 0.0000 IN <sup>2</sup>
			ZMRP 0.0000 IN <sup>2</sup>
			SCALE 0.0035
MACH	0.050		

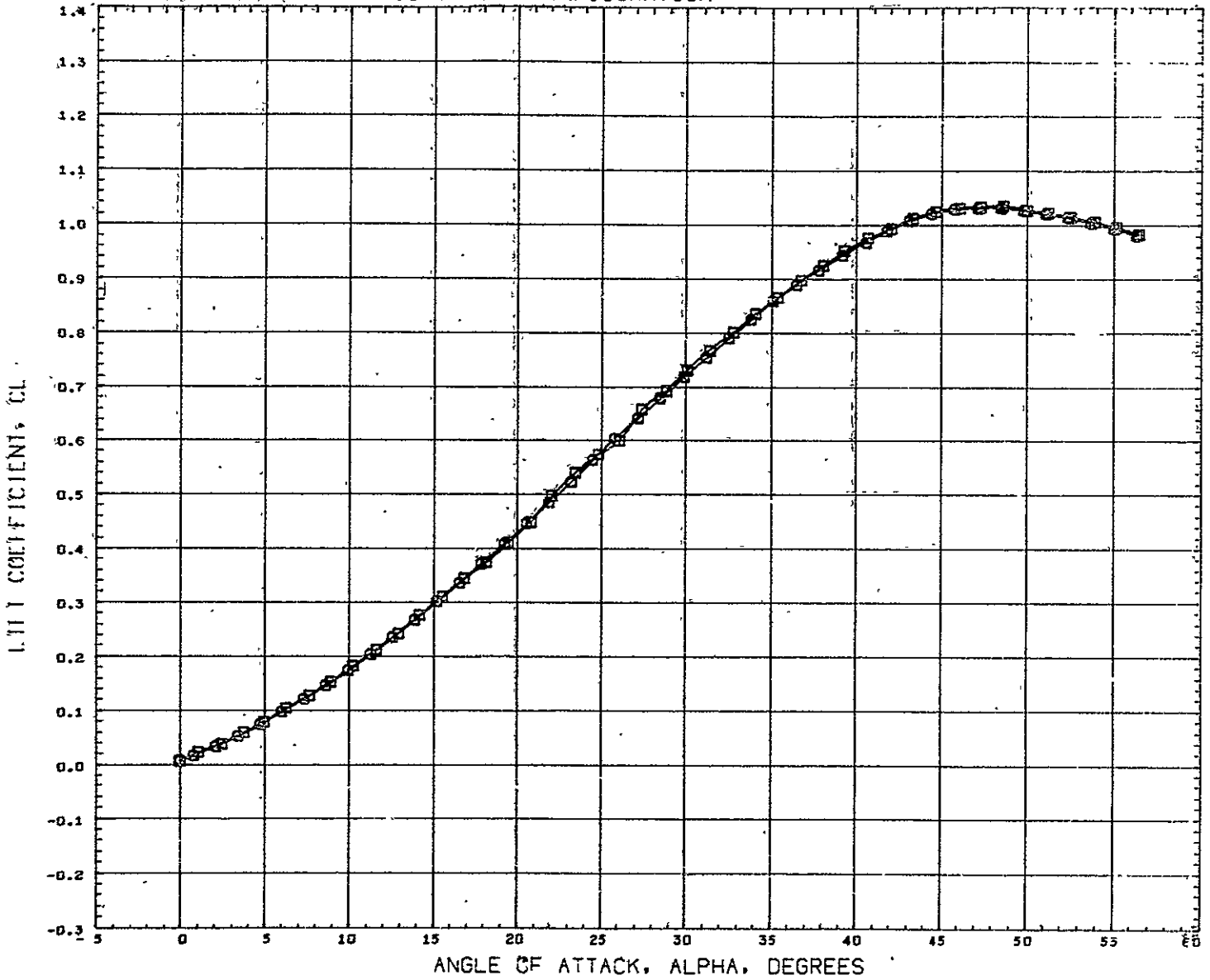
# DATA REPEATABILITY STRAIGHT WING CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9034)	GDHWT 247 B1W3T6-95V3 ELEVTR = 20 AILRON = 0	BETA 0.000 ELEVTR 20.000	REFS 12.6740 IN2
(RC9040)	GDHWT 247 B1W3T6-95V3 ELEVTR = 20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

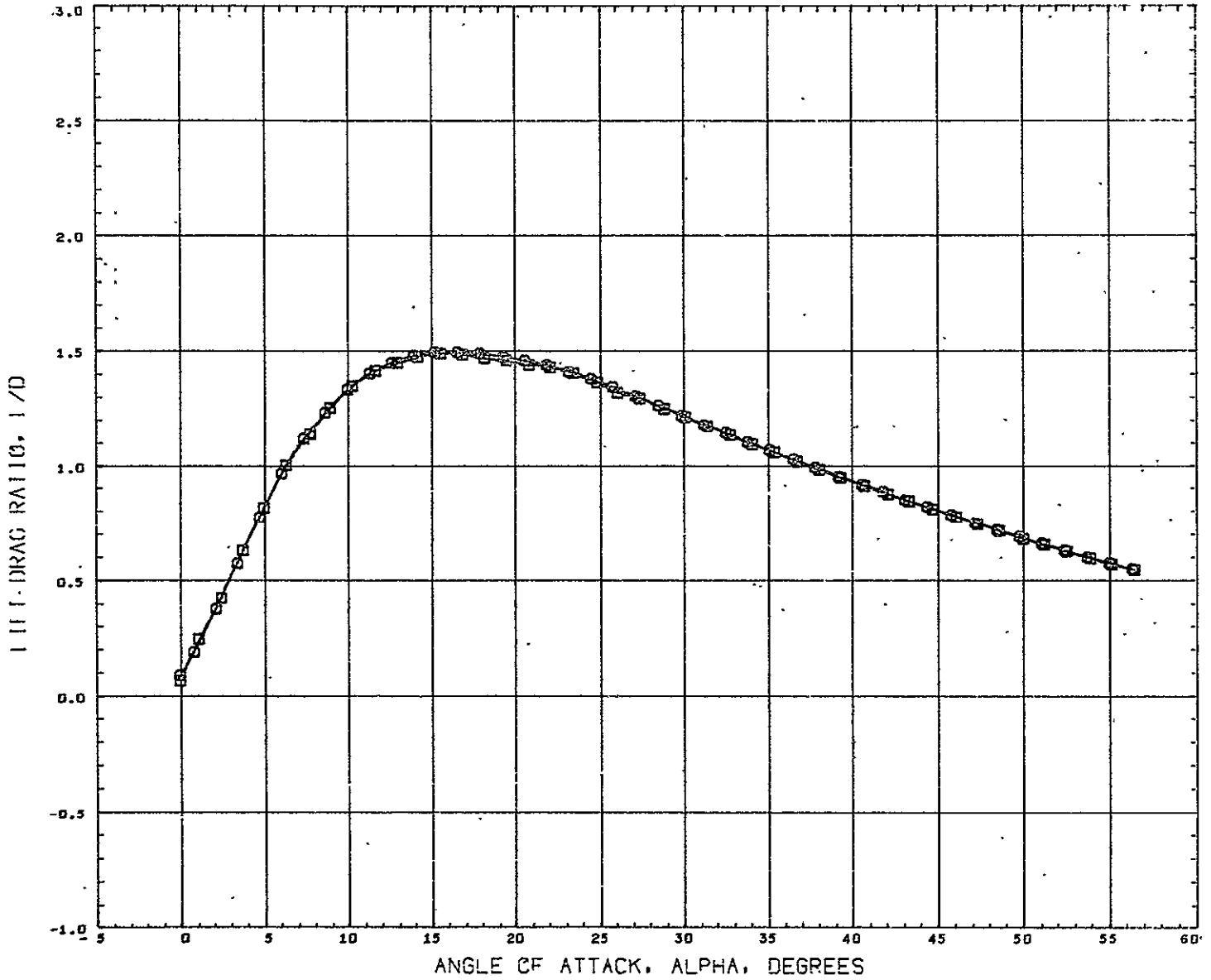
# DATA REPEATABILITY STRAIGHT WING CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9034)	GDHWT 247 B1W3T6-9DV3 ELEVTR = 20 AILRON = 0	BETA 0.000 ELEVTR 20.000	REFS 12.6740 IN <sup>2</sup>
(RC9040)	GDHWT 247 B1W3T6-9DV3 ELEVTR = 20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

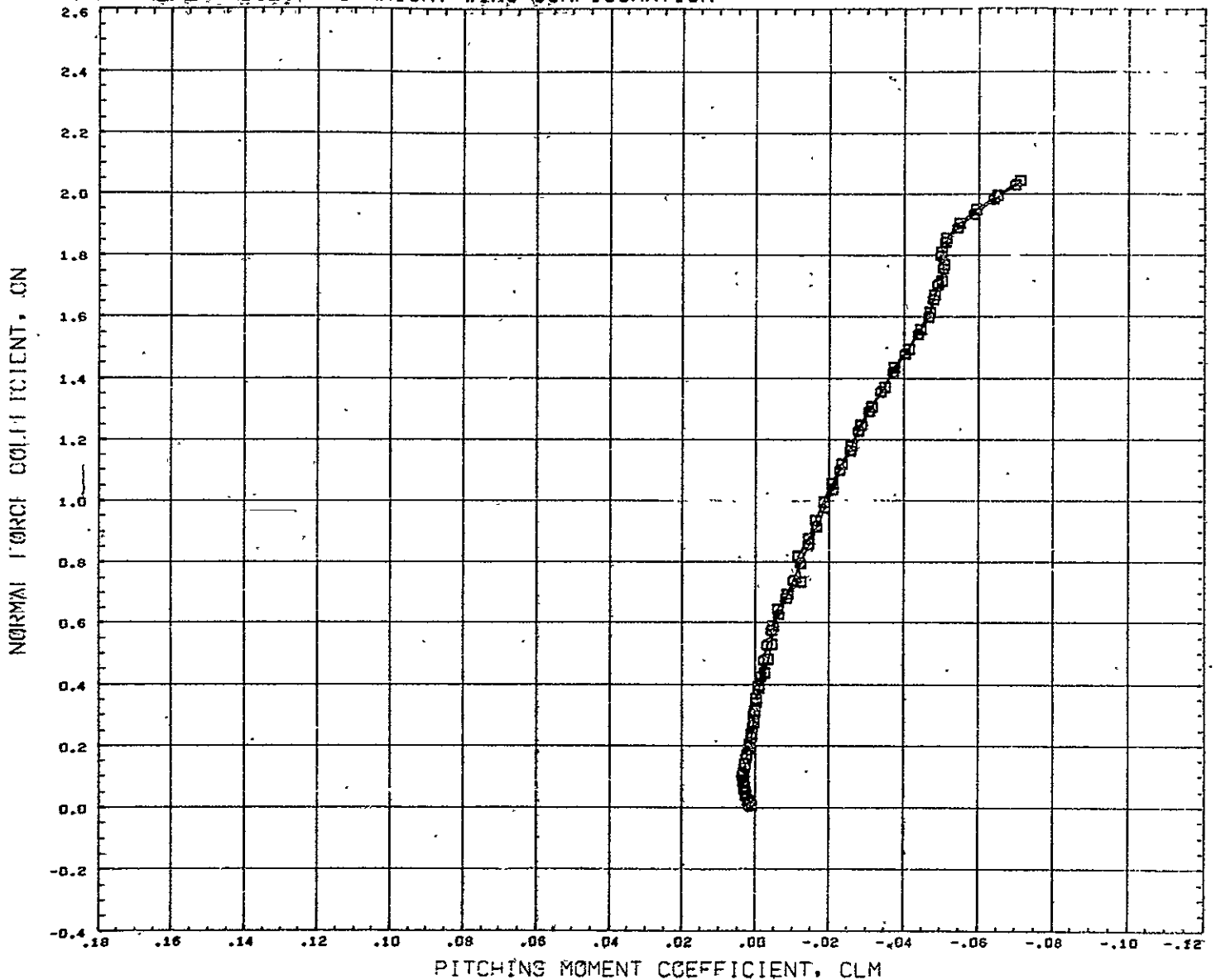
# DATA REPEATABILITY STRAIGHT WING CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9034)	GDHWT 247 B1W3T6-9GV3 ELEVTR = 20 AILRON = 0	BETA 0.000 ELEVTR 20.000	REFS 12.6740 IN2
(RC9040)	GDHWT 247 B1W3T6-9DV3 ELEVTR = 20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XHRF 6.2920 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 8.050

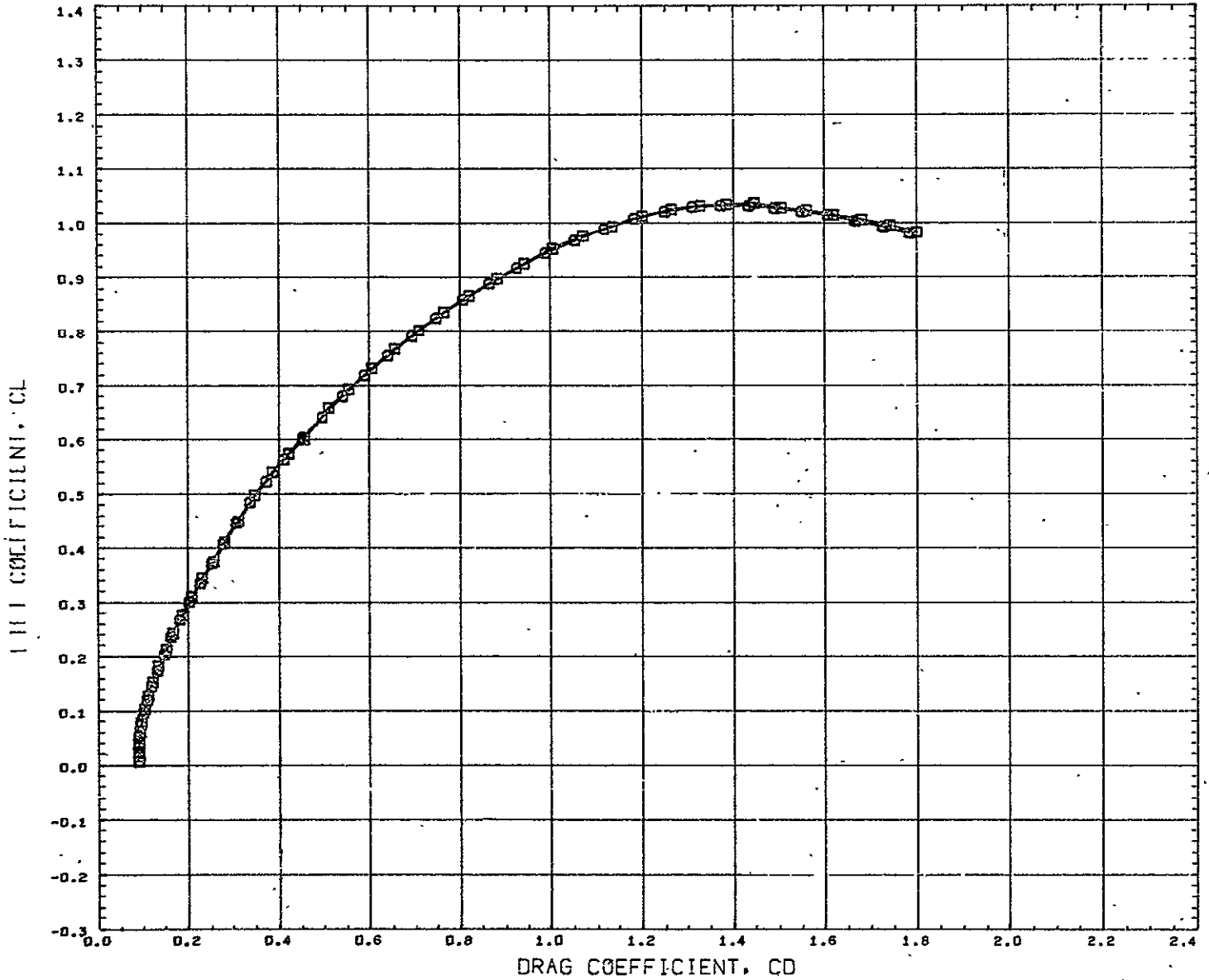
# DATA REPEATABILITY STRAIGHT WING CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9034)	GDHWT 247 B1W3T6-9DV3	ELEVTR = 20 AILRON = 0 BETA 0.000 ELEVTR 20.000	REFS 12.6740 IN <sup>2</sup>
(RC9040)	GDHWT 247 B1W3T6-9DV3	ELEVTR = 20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.950

# DATA REPEATABILITY STRAIGHT WING CONFIGURATION

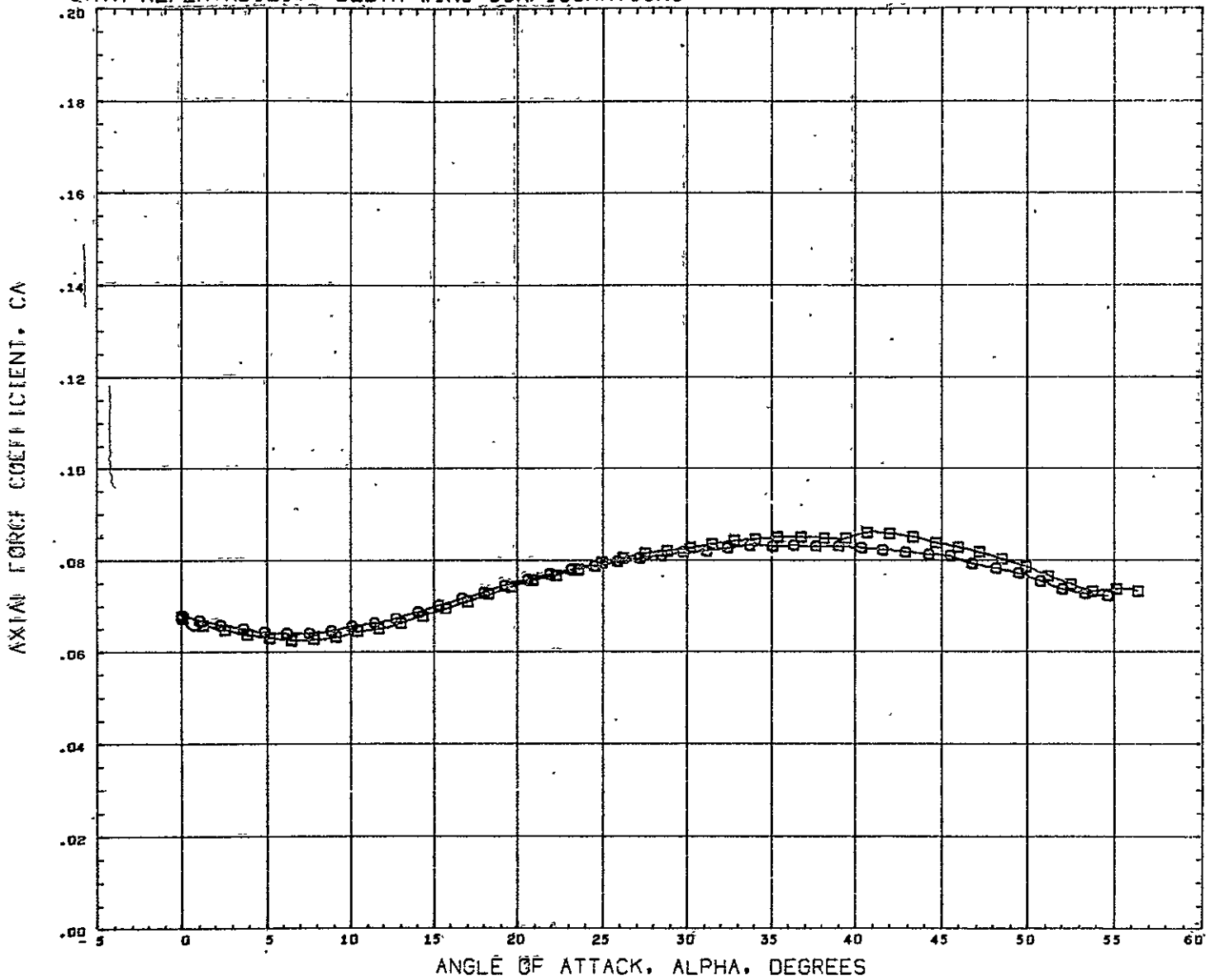


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9034)	GDHWT 247 B1W3T6-90V3 ELEVTR = 20 AILRON = 0	BETA 0.000 ELEVTR 20.000	REFS 12.6740 IN2
(RC9040)	GDHWT 247 B1W3T6-93V3 ELEVTR = 20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XNRF 6.2920 IN
			YNRF 0.0000 IN
			ZNRF 0.0000 IN
			SCALE 0.0035

MACH 8.050



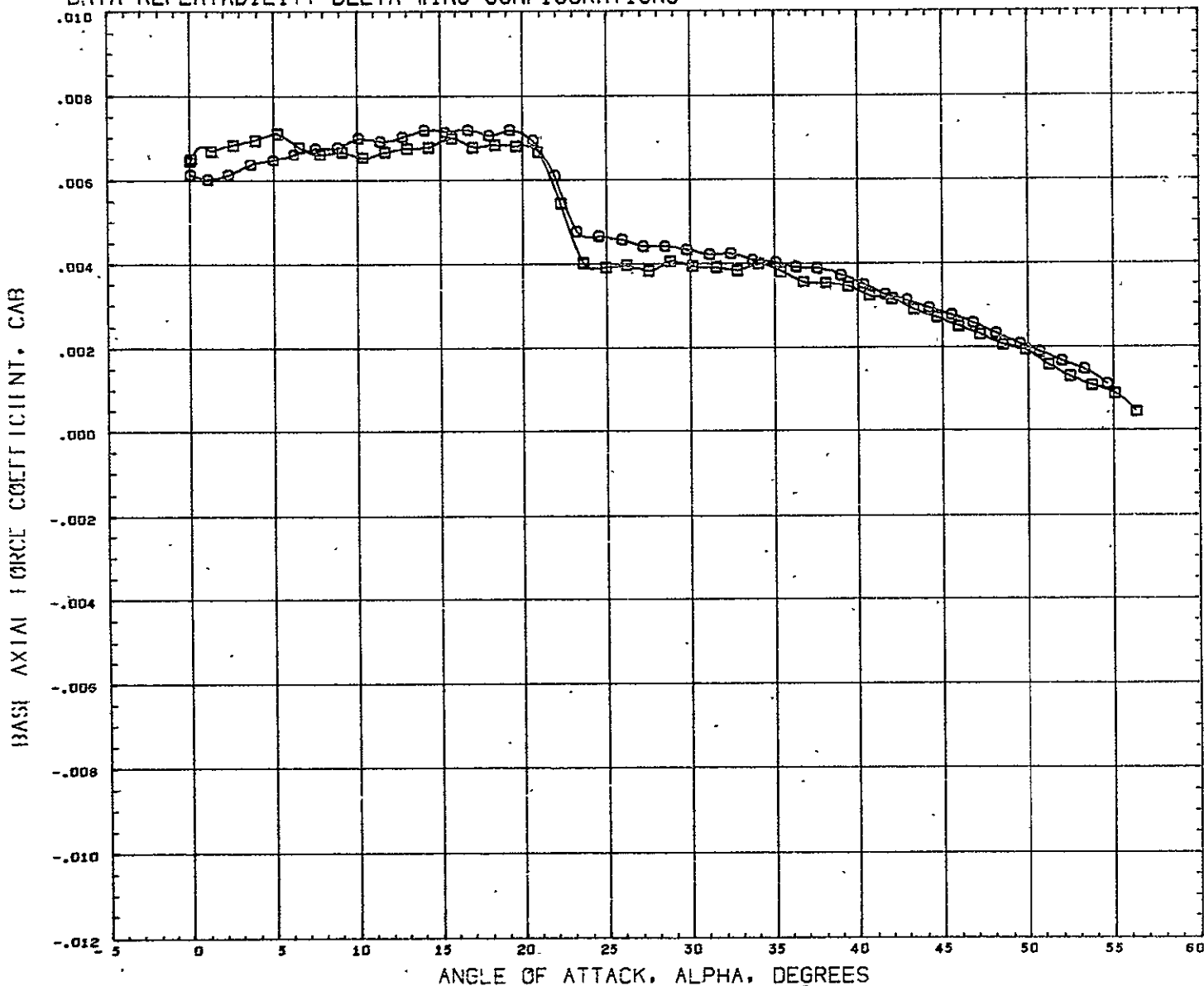
# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9B3D)	GDHWT 247 B7W5V3	ELEVTR = -20 AILRON = 0 BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN <sup>2</sup>
(RC9B2C)	GDHWT 247 B7W5V3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.4000 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

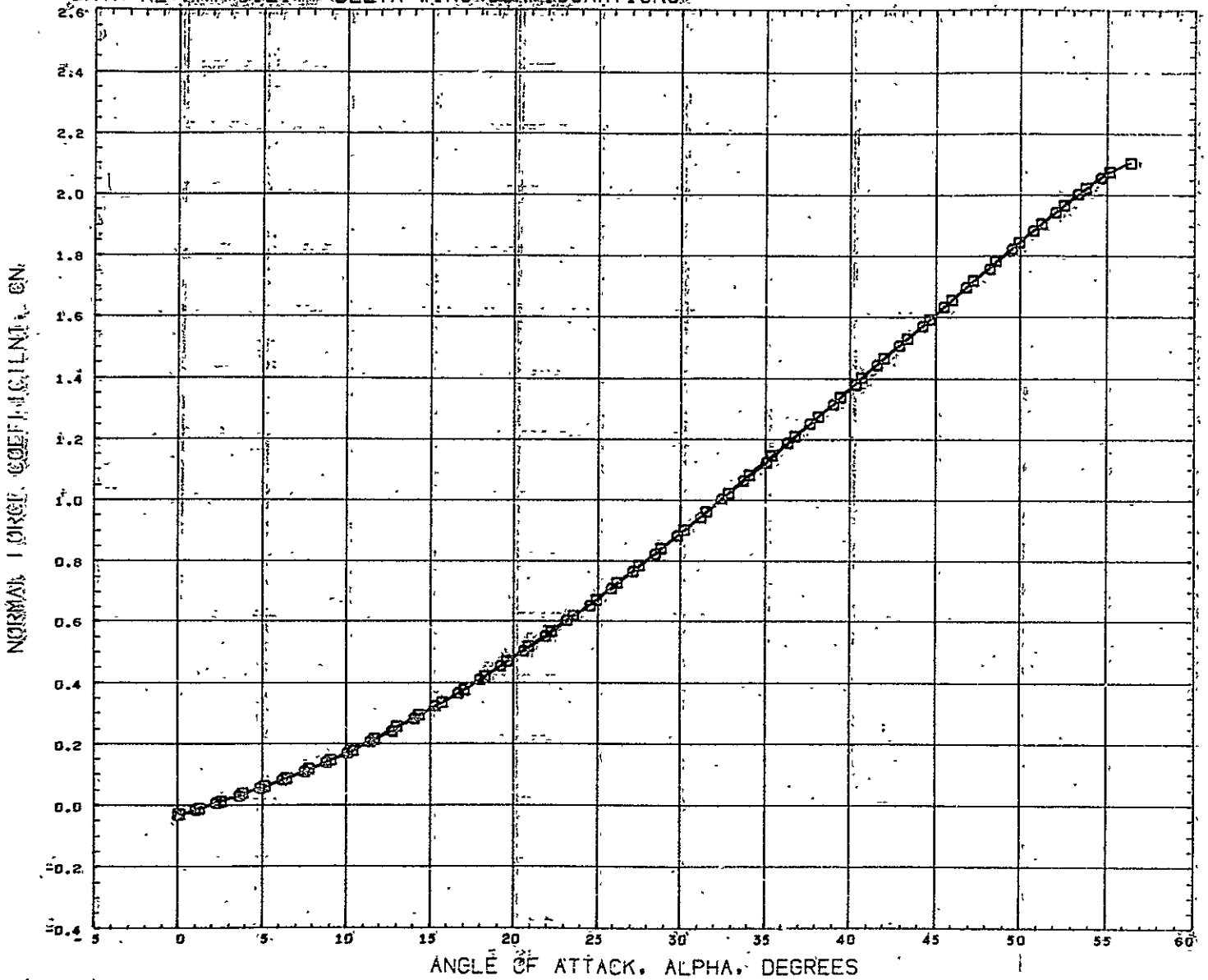
# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9030)	GDHWT 247 B7W5V3	ELEVTR = -20 AILRON = 0 BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9022)	GDHWT 247 B7W5V3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XHRF 6.4000 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 8.050

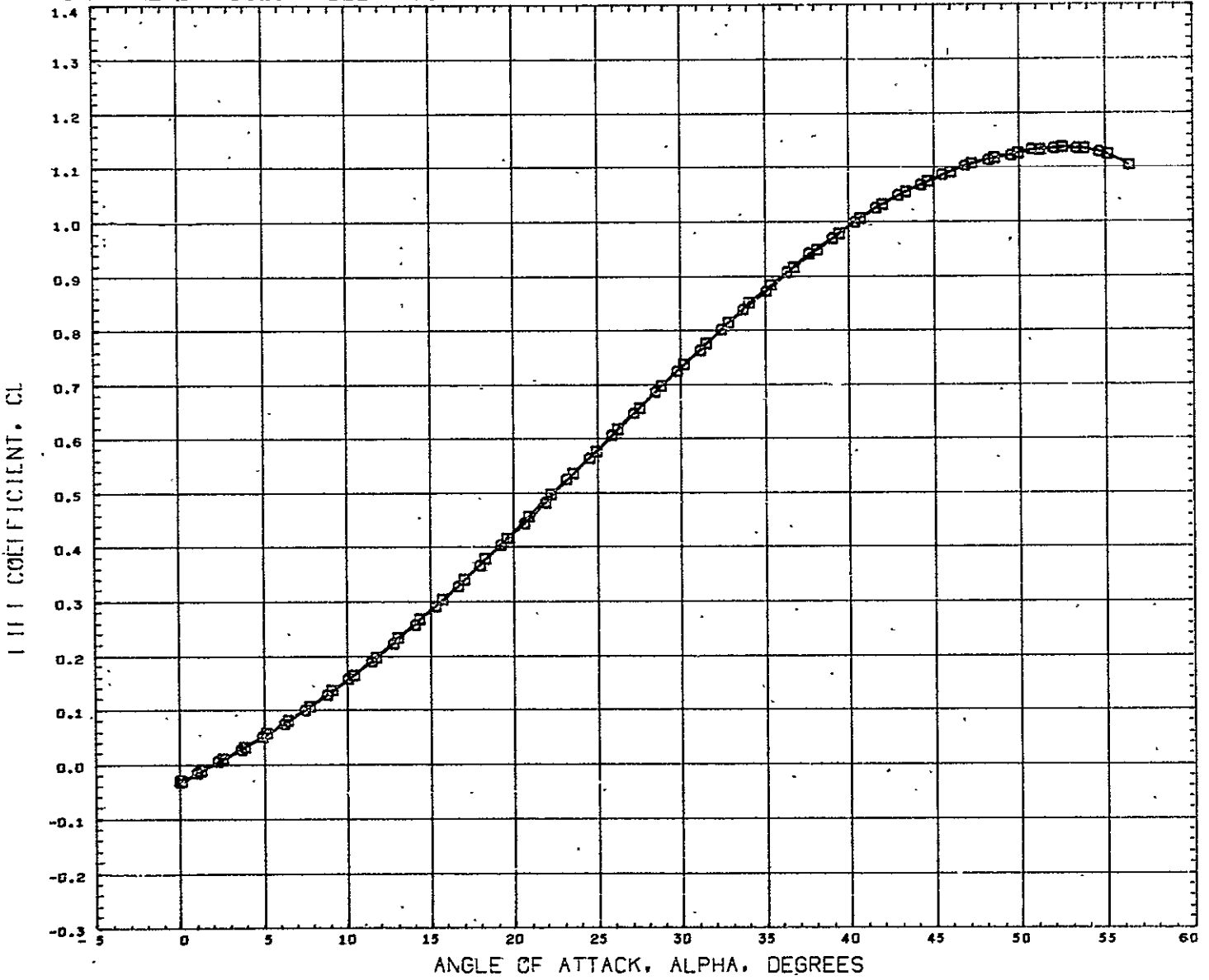
# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES			REFERENCE INFORMATION					
(R29030)	GDHWT 247 B7W5V3	ELEVTR = -20	AILRON = 0	BETA	0.000	ELEVTR	- 20.000	REFS	12.6740	IN <sup>2</sup>
(R29023)	GDHWT 247 B7W5V3	ELEVTR = -20	AILRON = 0	SUDGER	0.000	AILRON	0.000	REFL	10.0380	IN <sup>2</sup>
								REFB	1.4700	IN <sup>2</sup>
								XMRP	6.4000	IN <sup>2</sup>
								YMRP	0.0000	IN <sup>2</sup>
								ZMRP	0.0000	IN <sup>2</sup>
								SCALE	0.0035	

MACH 8.050

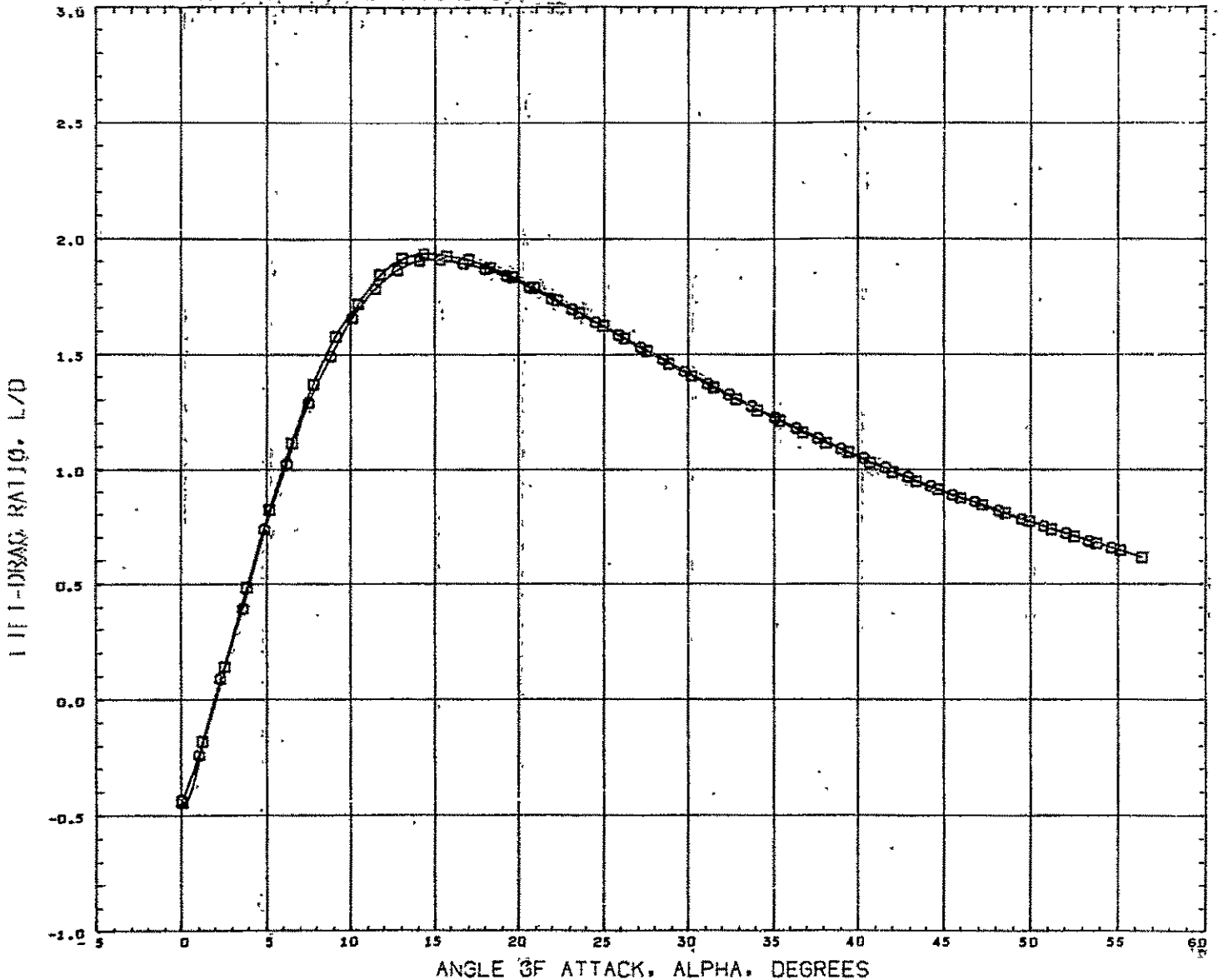
# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9030)	GDHWT 247 87W5V3	ELEVTR = -20 AILRON = 0 BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2 -
(RC9021)	GDHWT 247 37W5V3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.4000 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

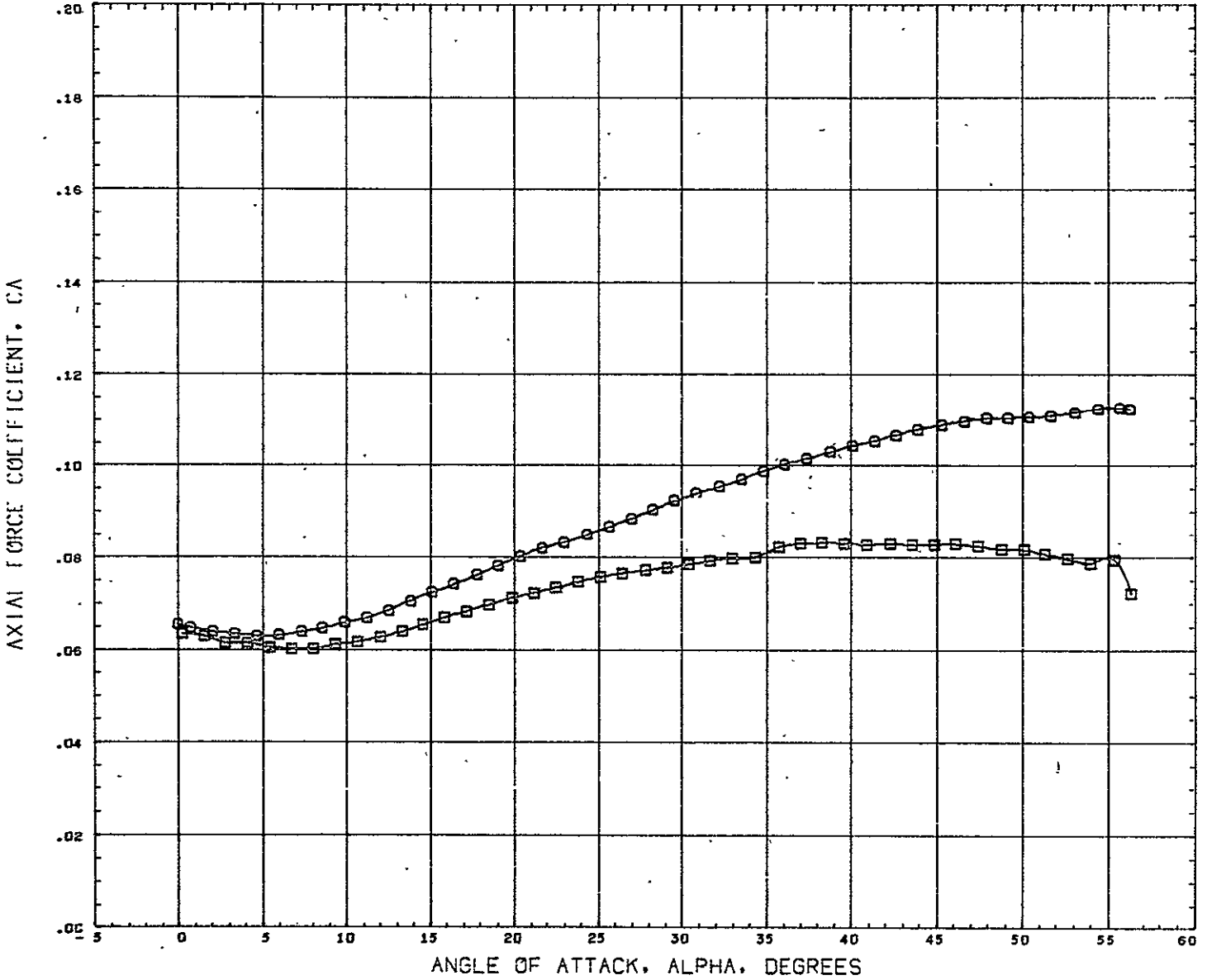
DATA REPEATABILITY DELTA WING CONFIGURATIONS:



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9030)	GDHWT 247 B7W5V3	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9023)	GDHWT 247 B7W5V3	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.4000 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

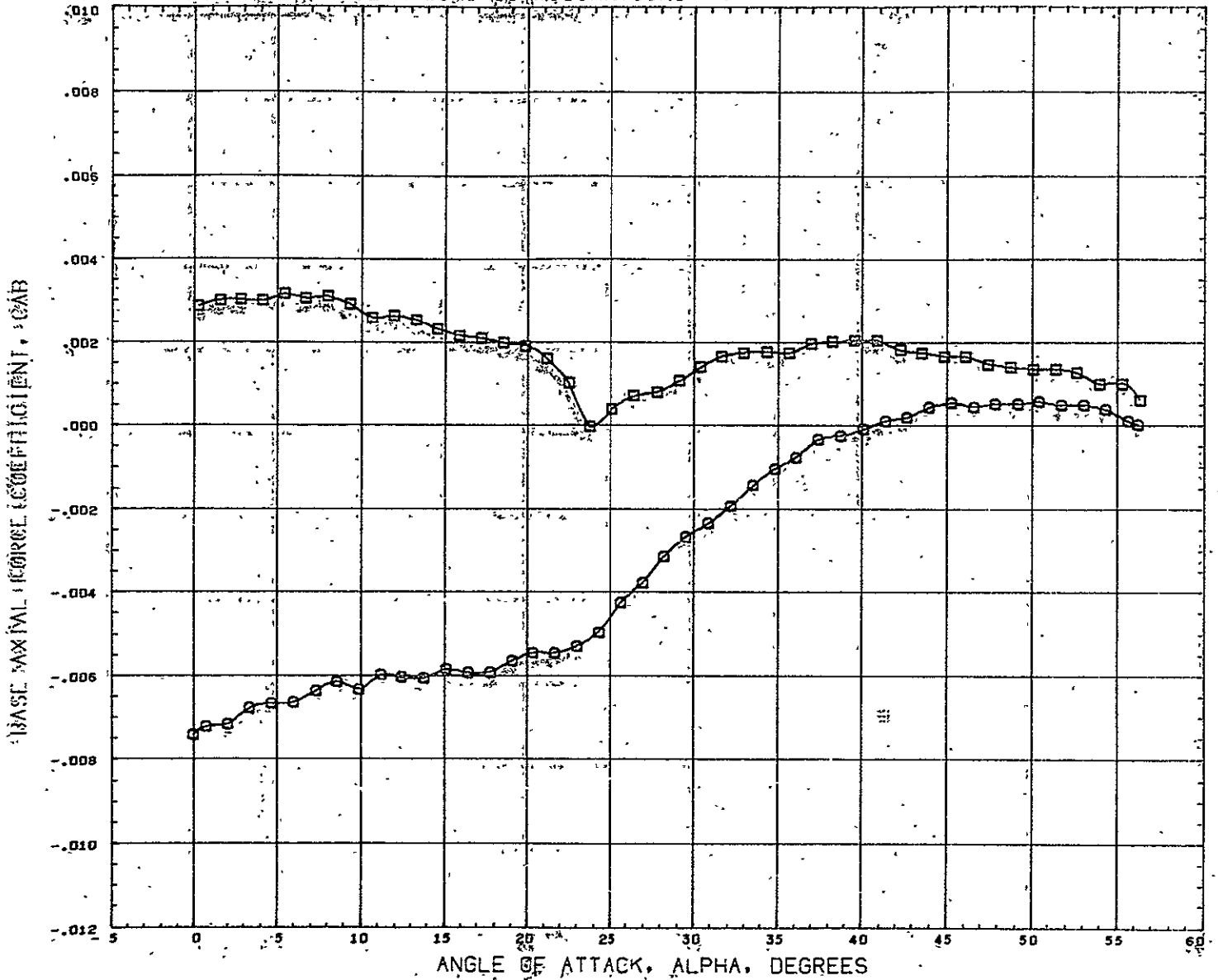
# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(BC9029)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC902C)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.4000 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.056

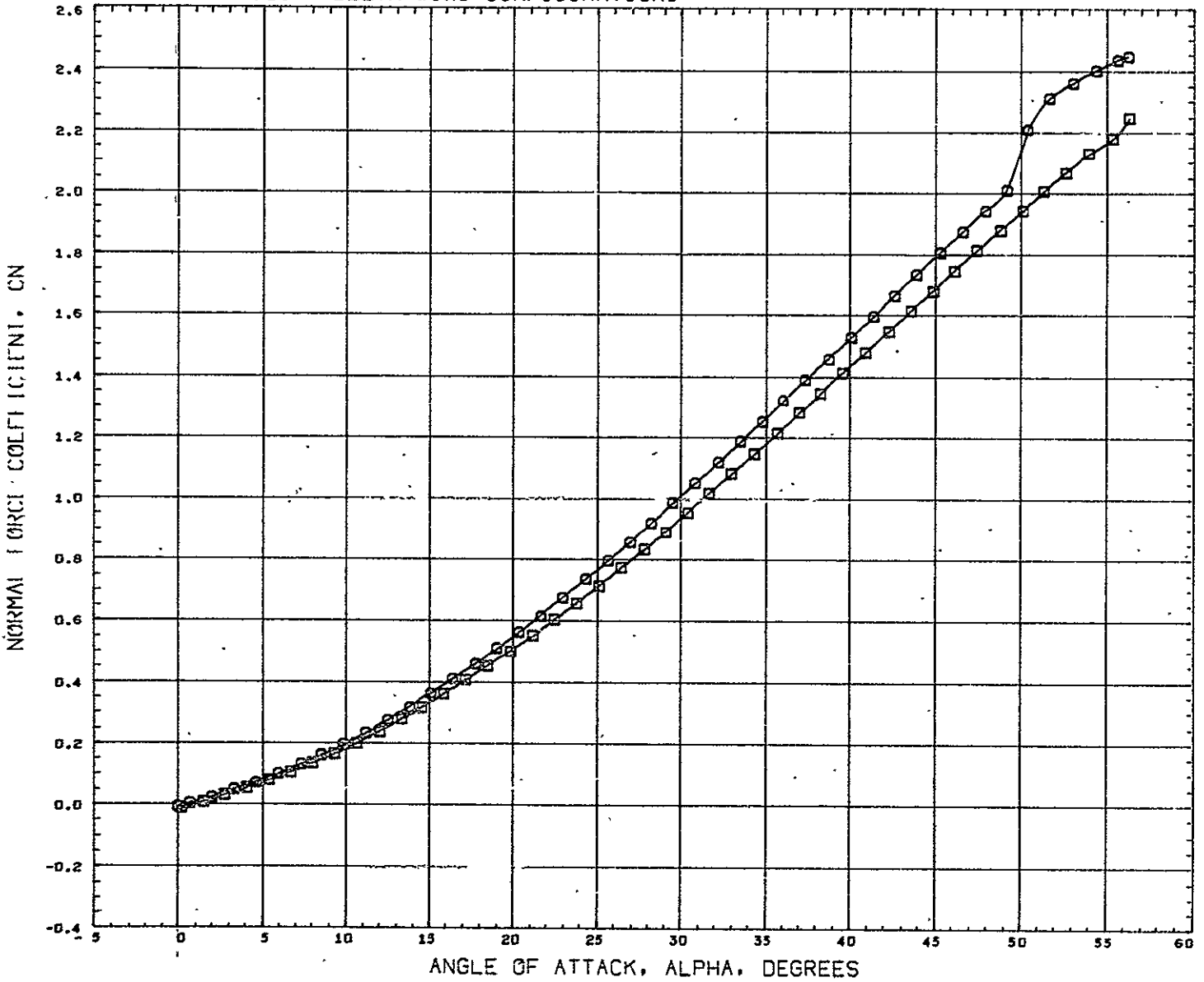
# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(BC9029)	GDHWT 247 BTW5V3	ELEVTR = -10 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN <sup>2</sup>
(BC9021)	GDHWT 247 BTW5V3	ELEVTR = -10 AILRON = 0 KUDZER 0.000 AILRON 0.000	REFL 10.0380 IN <sup>2</sup>
			REFB 1.4700 IN
			XMRP 6.4000 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

# DATA REPEATABILITY DELTA WING CONFIGURATIONS

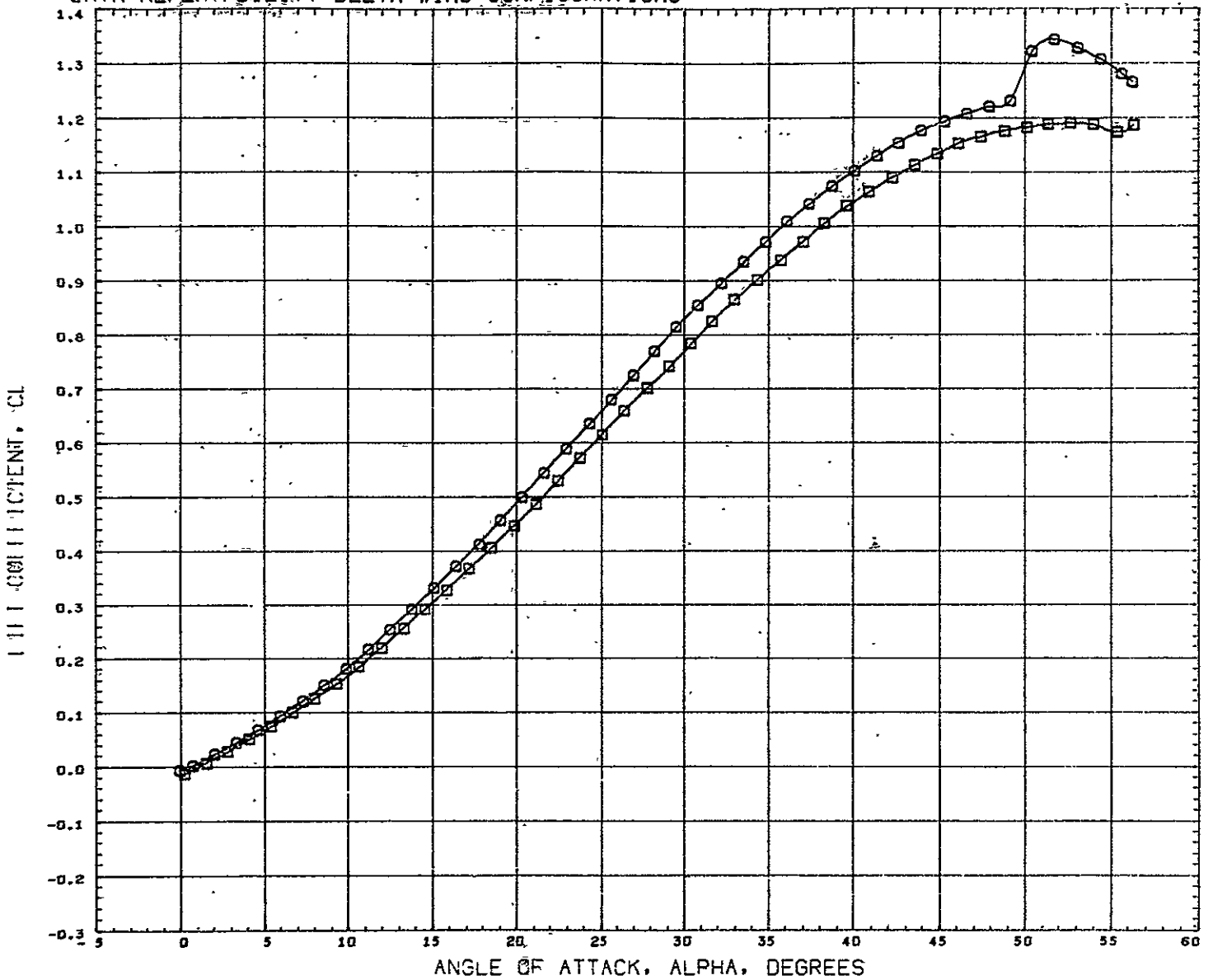


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES				REFERENCE INFORMATION				
(BC9029)	GDHWT 247 B7W5V3	ELEVTR = -10	AILRON = 0	BETA	0.000	ELEVTR	0.000	REFS	12.6740	IN2
(RC952C)	GDHWT 247 B7W5V3	ELEVTR = +10	AILRON = 0	NUMBER	0.000	AILRON	0.000	REFL	10.0380	IN
								REFB	1.4700	IN
								XMRP	6.4000	IN
								YMRP	0.0000	IN
								ZMRP	0.0000	IN
								SCALE	0.0035	

MACH 8.050



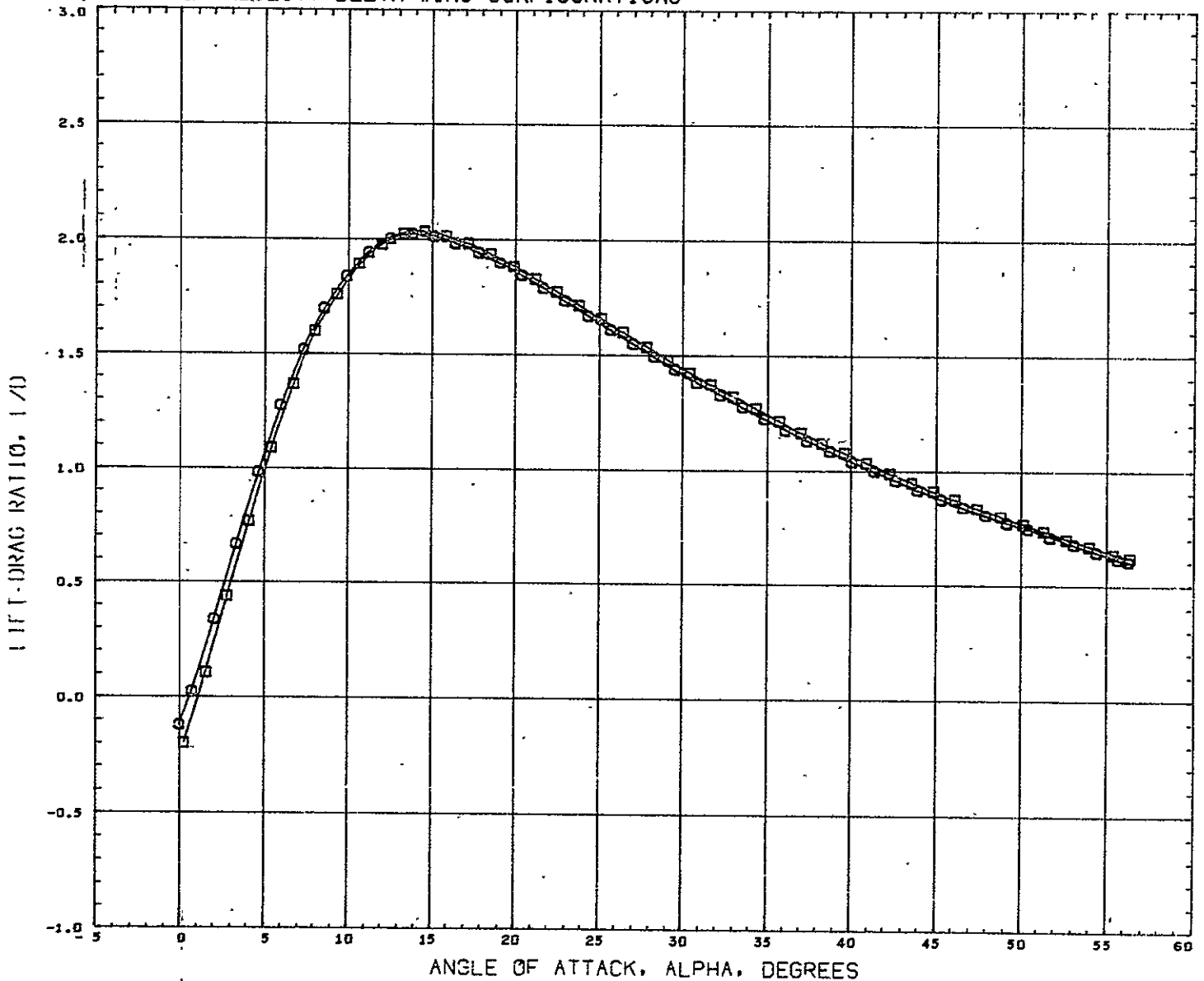
# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES				REFERENCE INFORMATION				
(BC9029)	GDHWT 247 B7W5V3	ELEVTR = -10	AILRON = 0	BETA	0.000	ELEVTR	0.000	REFS	12.6740	IN <sup>2</sup>
(BC902C)	GDHWT 247 B7W5V3	ELEVTR = -10	AILRON = 0	RUDDER	0.000	AILRON	0.000	REFL	10.0380	IN
								REFB	1.4700	IN
								XMRP	6.4000	IN
								YMRP	0.0000	IN
								ZMRP	0.0000	IN
								SCALE	0.0035	

MACH 0.050

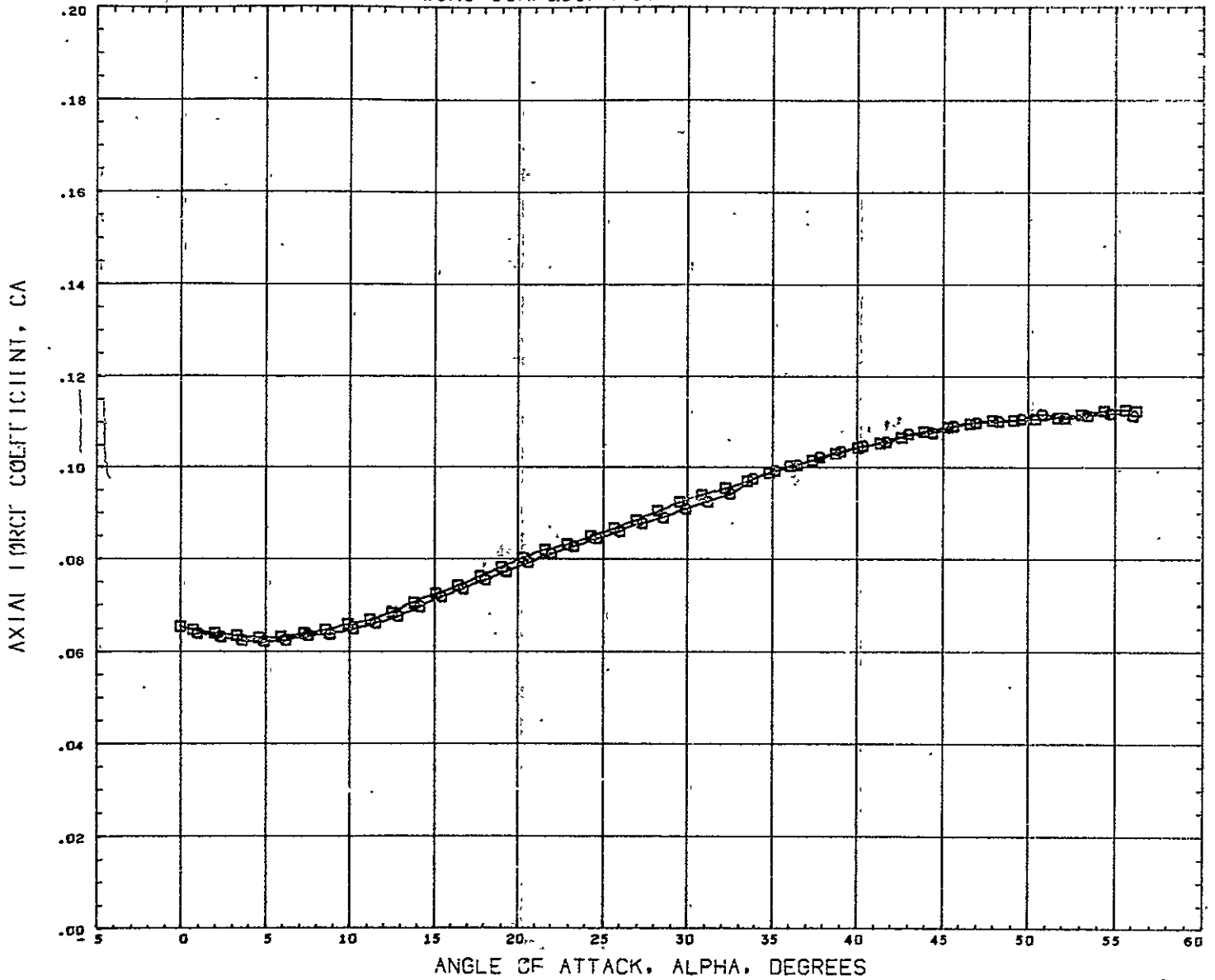
# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(BC9029)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9020)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.4000 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

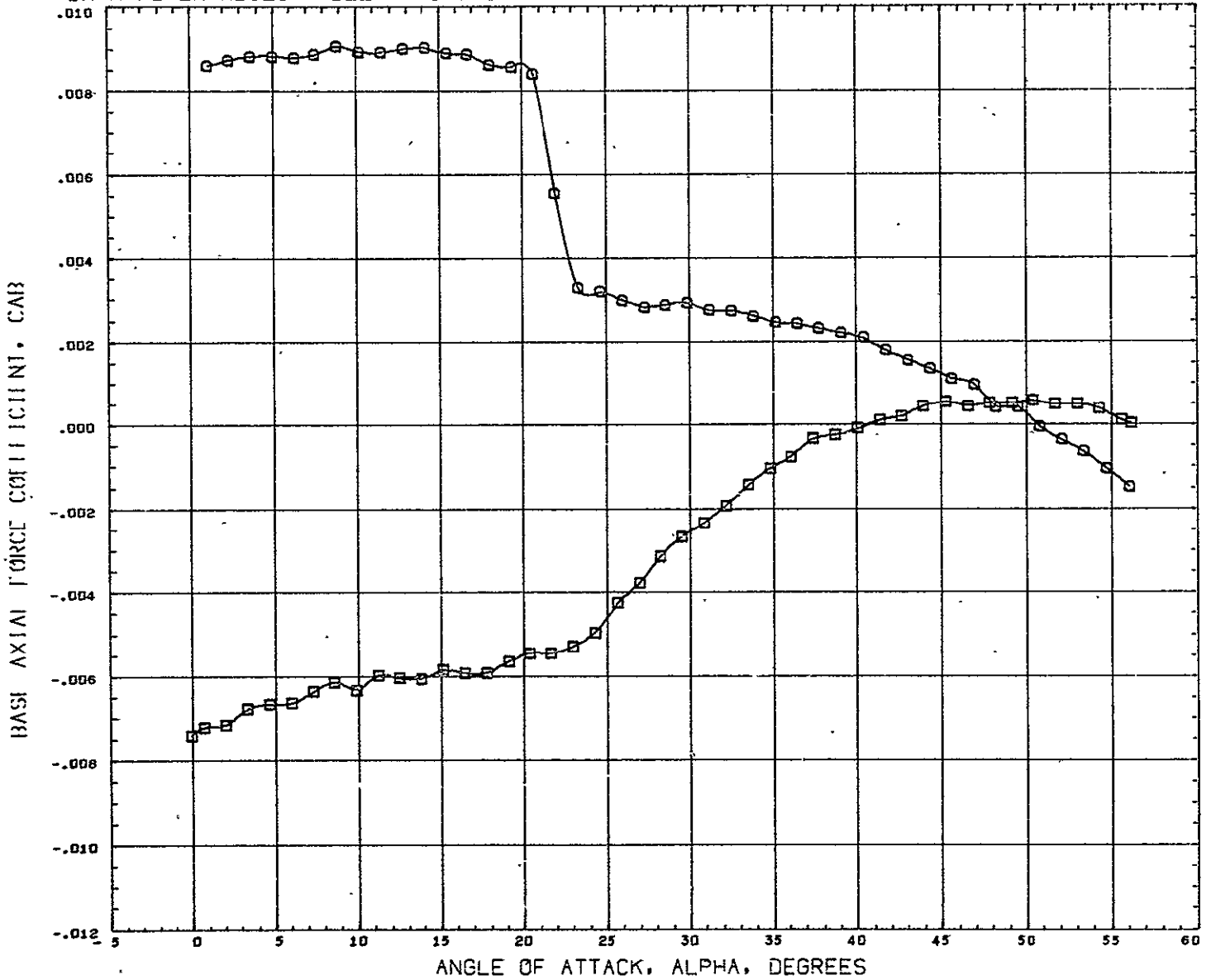
# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES				REFERENCE INFORMATION				
(RC9027)	GDHWT 247 B7W5V3	ELEVTR = 0	AILRON = 0	BETA	0.000	ELEVTR	0.000	REFS	12.6740	IN2
(BC9013)	GDHWT 247 B7W5V3	ELEVTR = 0	AILRON = 0	RUDDER	0.000	AILRON	0.000	REFL	10.0380	IN
								REFB	1.4700	IN
								XMRP	6.4000	IN
								YMRP	0.0000	IN
								ZMRP	0.0000	IN
								SCALE	0.0035	

MACH 8.050

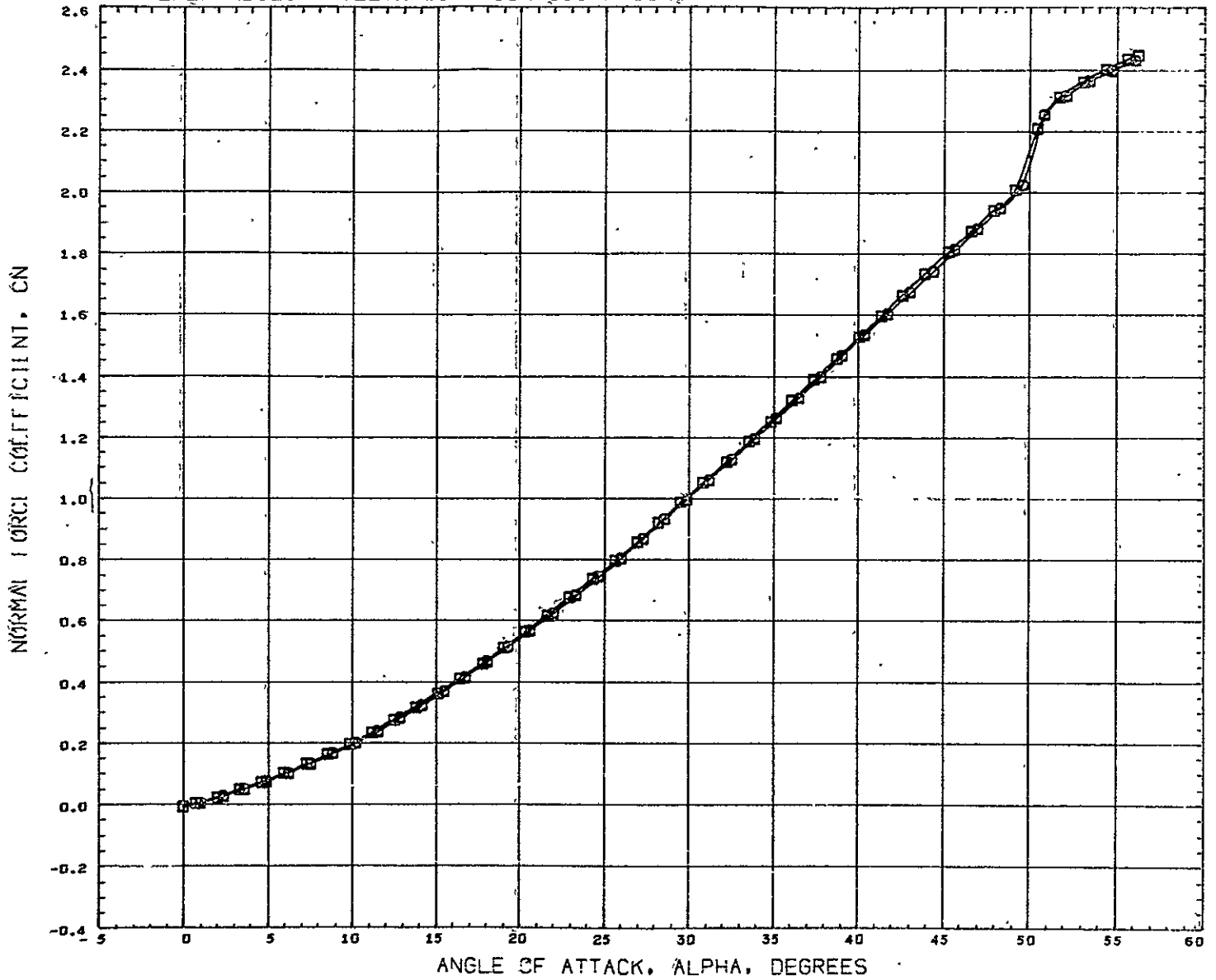
# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES				REFERENCE INFORMATION				
(RC9027)	GDHWT 247 B7W5V3	ELEVTR = 0	AILRON = 0	BETA	0.000	ELEVTR	0.000	REFS	12.6740	IN2
(BC9019)	GDHWT 247 B7W5V3	ELEVTR = 0	AILRON = 0	RUDDER	0.000	AILRON	0.000	REFL	10.0380	IN
								REFB	1.4700	IN
								XMRP	6.4000	IN
								YMRP	0.0000	IN
								ZMRP	0.0000	IN
								SCALE	0.0035	

MACH 0.050

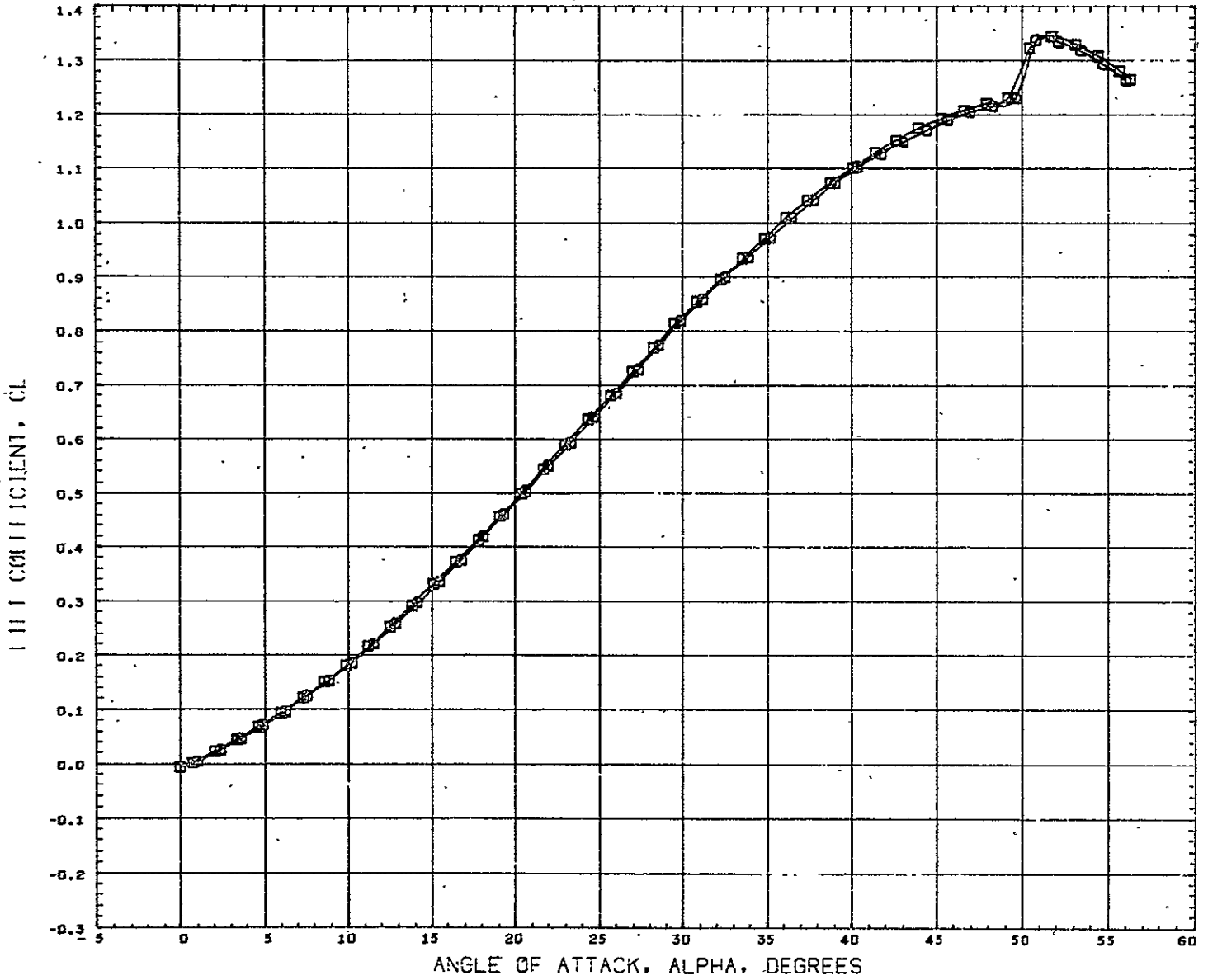
DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES				REFERENCE INFORMATION				
(8C9D27)	GDHWT 247 B7W5V3	ELEVTR = 0	AILRON = 0	BETA	0.000	ELEVTR	0.000	REFS	12.6740	IN2
(8C9D19)	GDHWT 247 B7W5V3	ELEVTR = 0	AILRON = 0	RUDDER	0.000	AILRON	0.000	REFL	10.0380	IN
								REFB	1.4700	IN
								XHRF	6.4000	IN
								YHRF	0.0000	IN
								ZHRF	0.0000	IN
								SCALE	0.0035	

MACH 8.050

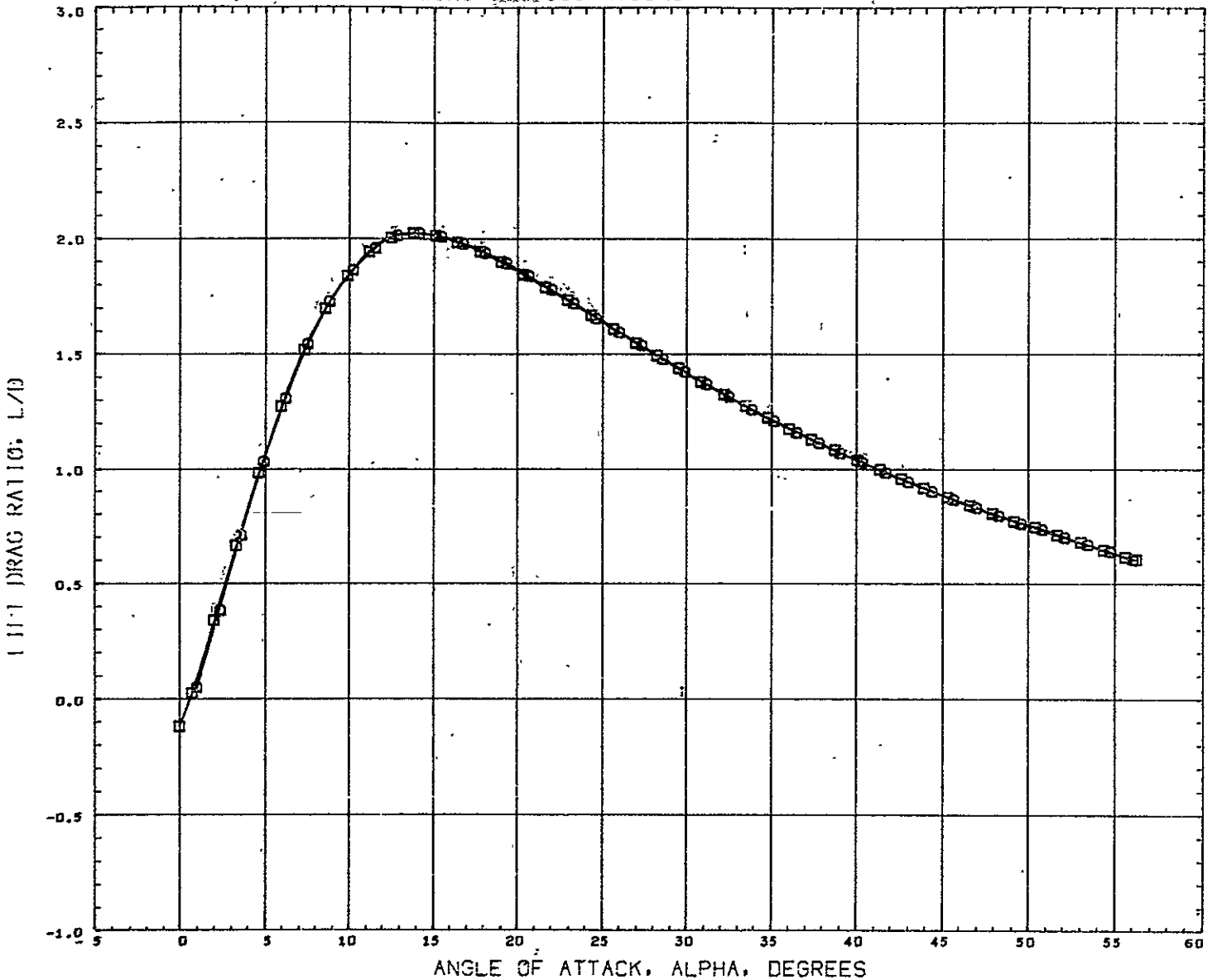
# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES				REFERENCE INFORMATION				
(RC9D27)	GDHWT 247 B7W5V3	ELEVTR = 0	AILRON = 0	BETA	0.000	ELEVTR	0.000	REFS	12.6740	IN2
(BC9D19)	GDHWT 247 B7W5V3	ELEVTR = 5	AILRON = 0	RUDDER	0.000	AILRON	0.000	REFL	10.0380	IN
								REFB	1.4700	IN
								XMRP	6.4000	IN
								YMRP	0.0000	IN
								ZMRP	0.0000	IN
								SCALE	0.0035	

MACH 0.050

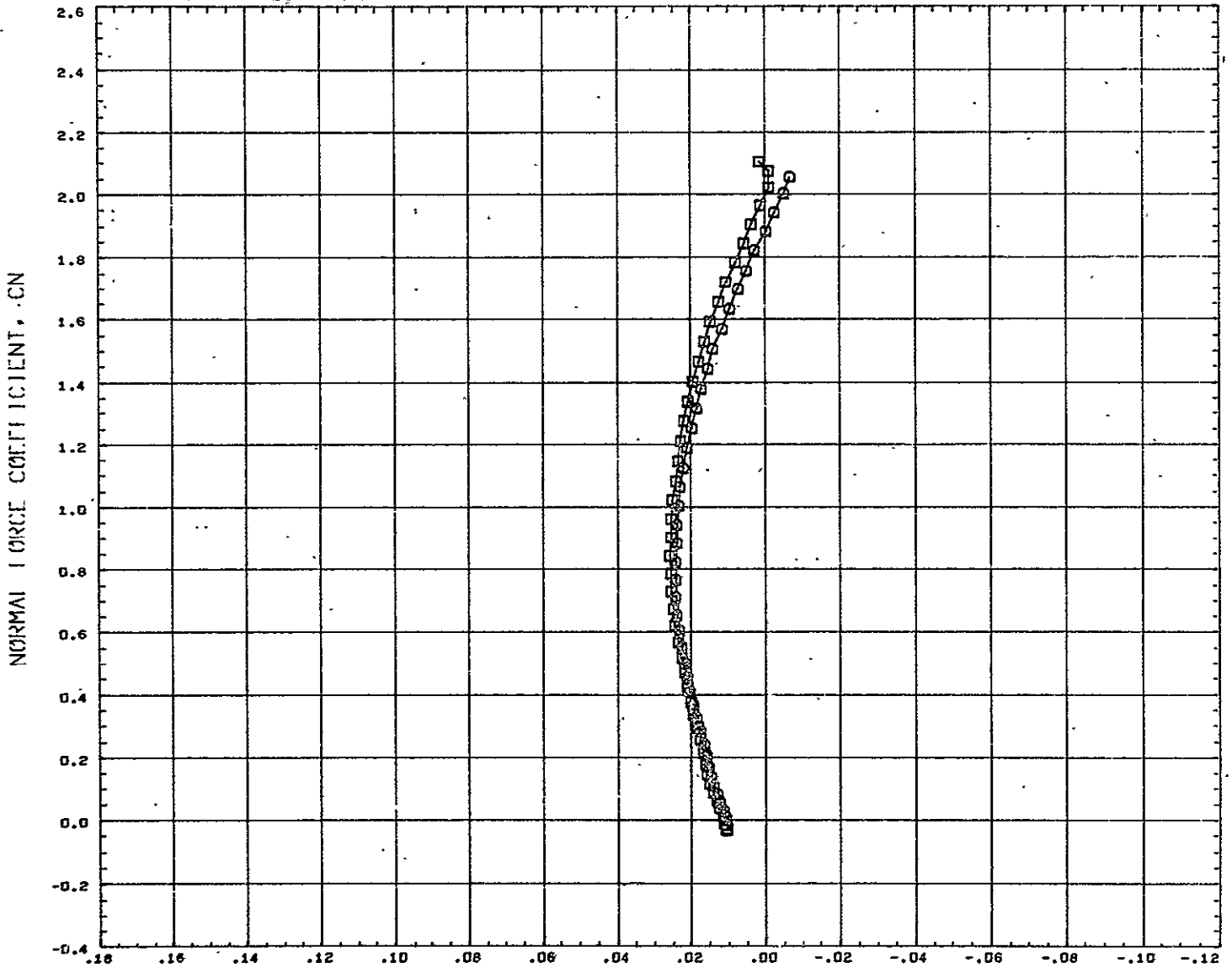
# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9027)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(BC9019)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0 RUNNER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.4000 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 0.050

# DATA REPEATABILITY DELTA WING CONFIGURATIONS



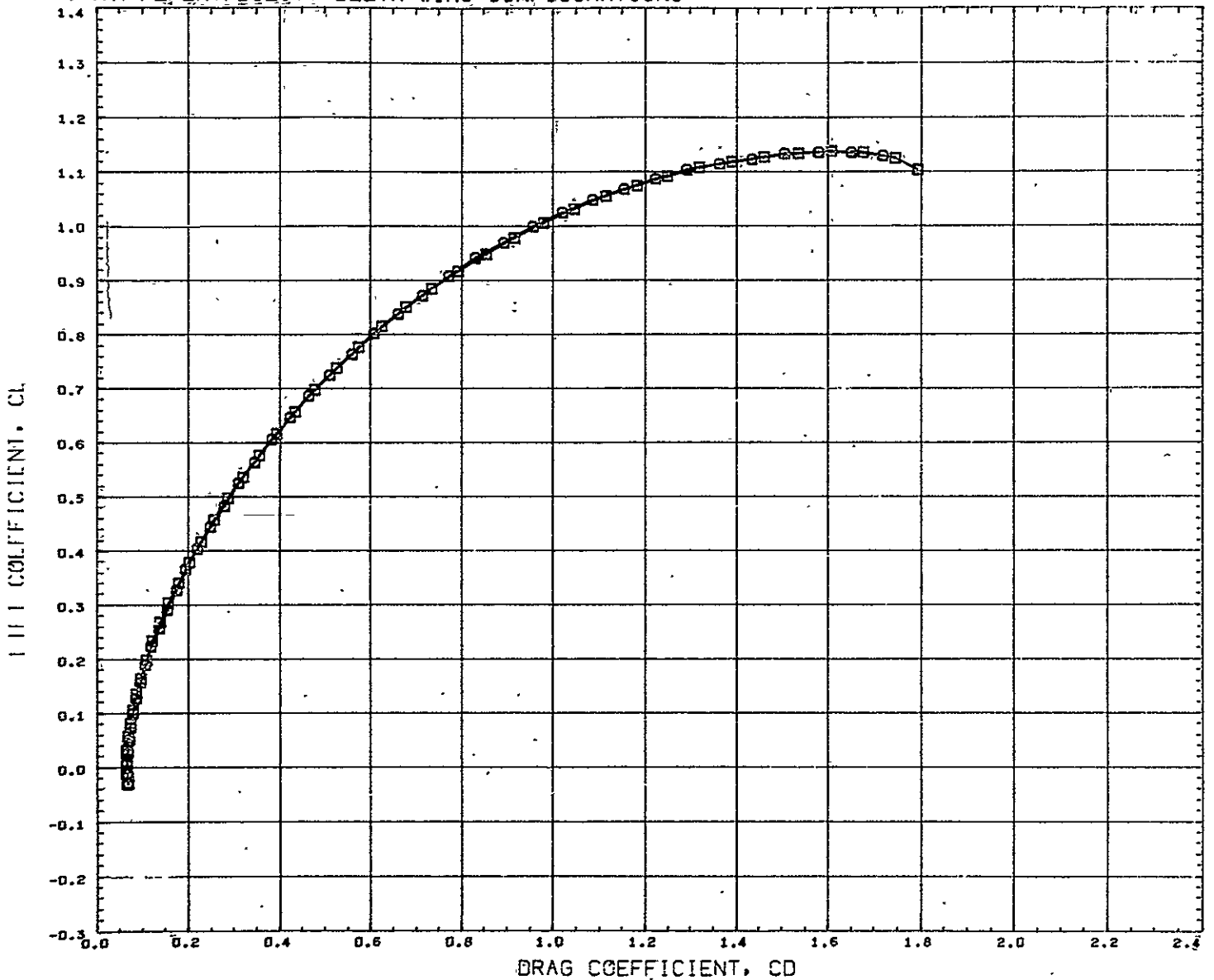
PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9030)	(D) GDHWT 247 B7W5V3	ELEVTR = -20 AILRON = 0 BETA 0.000 ELEVTR = 20.000	REFS 12.6740 IN2
(RC9023)	(C) GDHWT 247 B7W5V3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.4000 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050



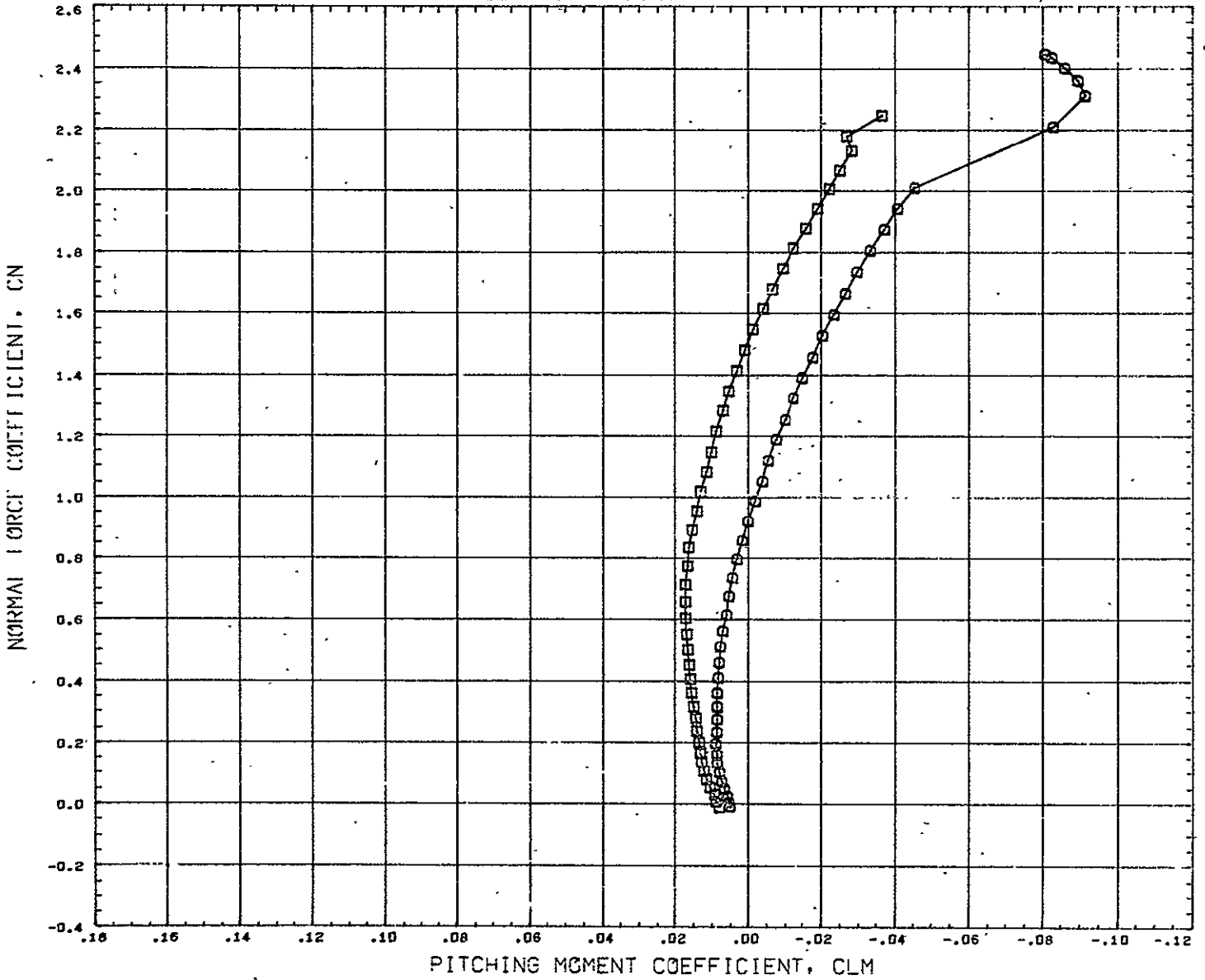
# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9030)	GDHWT 247 B7W5V3	ELEVTR = -20 AILRON = 0 BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC902*)	GDHWT 247 B7W5V4	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XHRF 6.4000 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 6.050

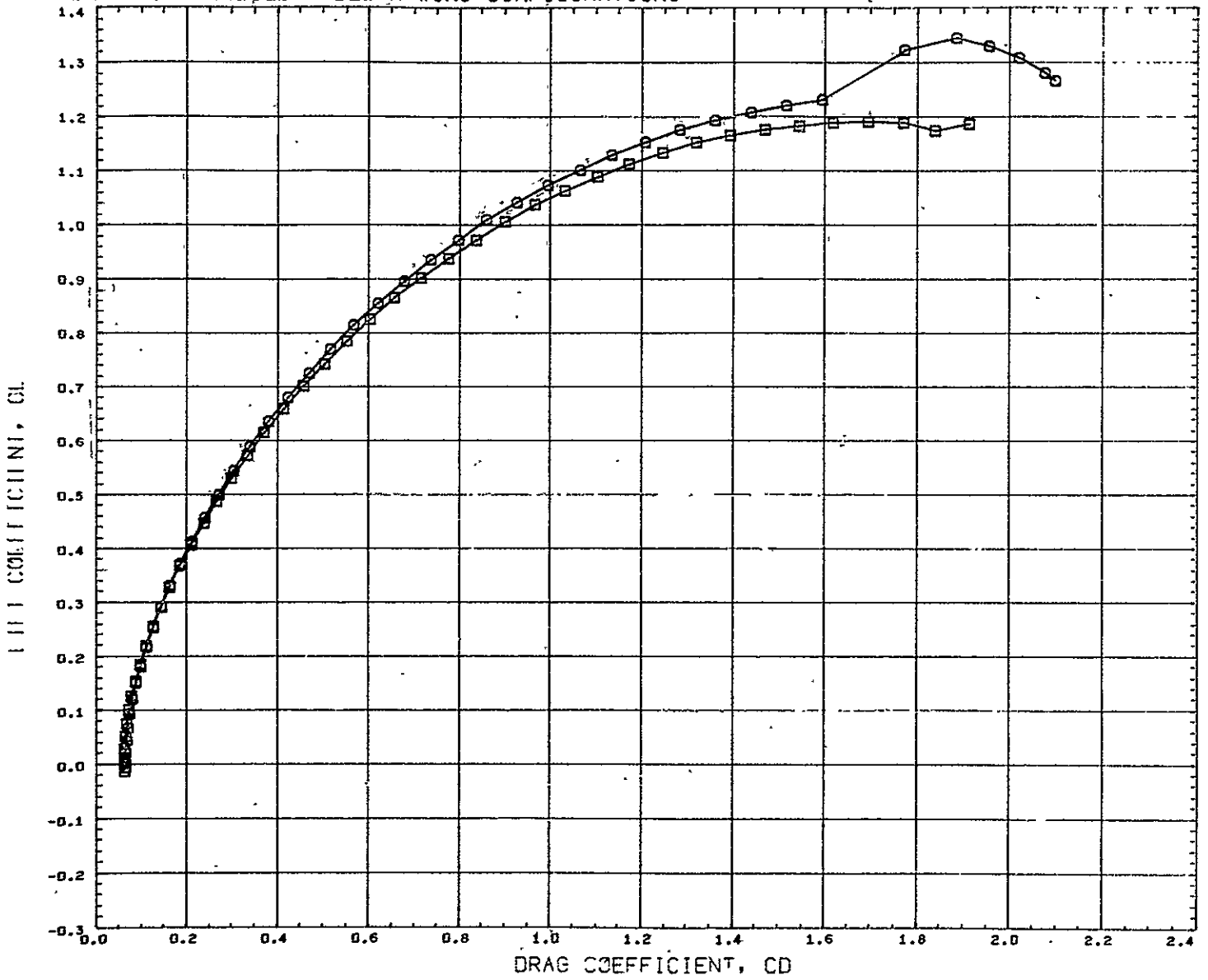
# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES				REFERENCE INFORMATION				
(2C9029)	GDHWT 247 B7W5V3	ELEVTR = -10	AILRON = 0	BETA	0.000	ELEVTR	0.000	REFS	12.6740	IN2
(RC9020)	GDHWT 247 B7W5V3	ELEVTR = -10	AILRON = 0	RUDDER	0.000	AILRON	0.000	REFL	10.0380	IN
								REFB	1.4700	IN
								XMRP	6.4000	IN
								YMRF	0.0000	IN
								ZMRP	0.0000	IN
								SCALE	0.0035	

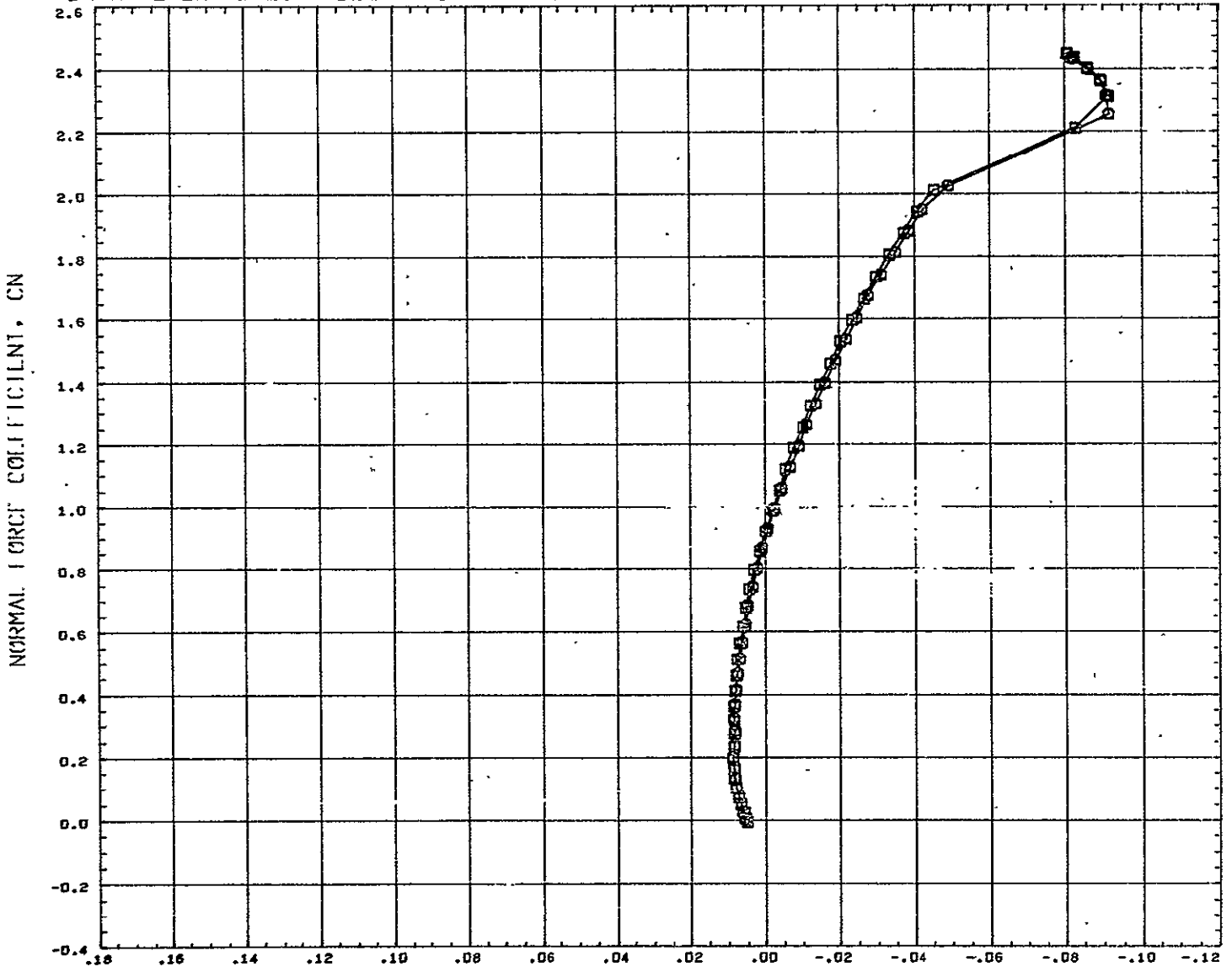
MACH 8.050

# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES				REFERENCE INFORMATION				
(BC9029)	GDHWT 247 B7WSV3	ELEVTR = -10	AILRON = 0	BETA	0.000	ELEVTR	0.000	REFS	12.6740	IN <sup>2</sup>
(RC9020)	GDHWT 247 B7WSV3	ELEVTR = -10	AILRON = 0	RUDDER	0.000	AILRON	0.000	REFL	10.0380	IN
								REFB	1.4700	IN
								XMRP	6.4000	IN
								YMRP	0.0000	IN
								ZMRP	0.0000	IN
								SCALE	0.0035	
MACH	0.050									

# DATA REPEATABILITY DELTA WING CONFIGURATIONS

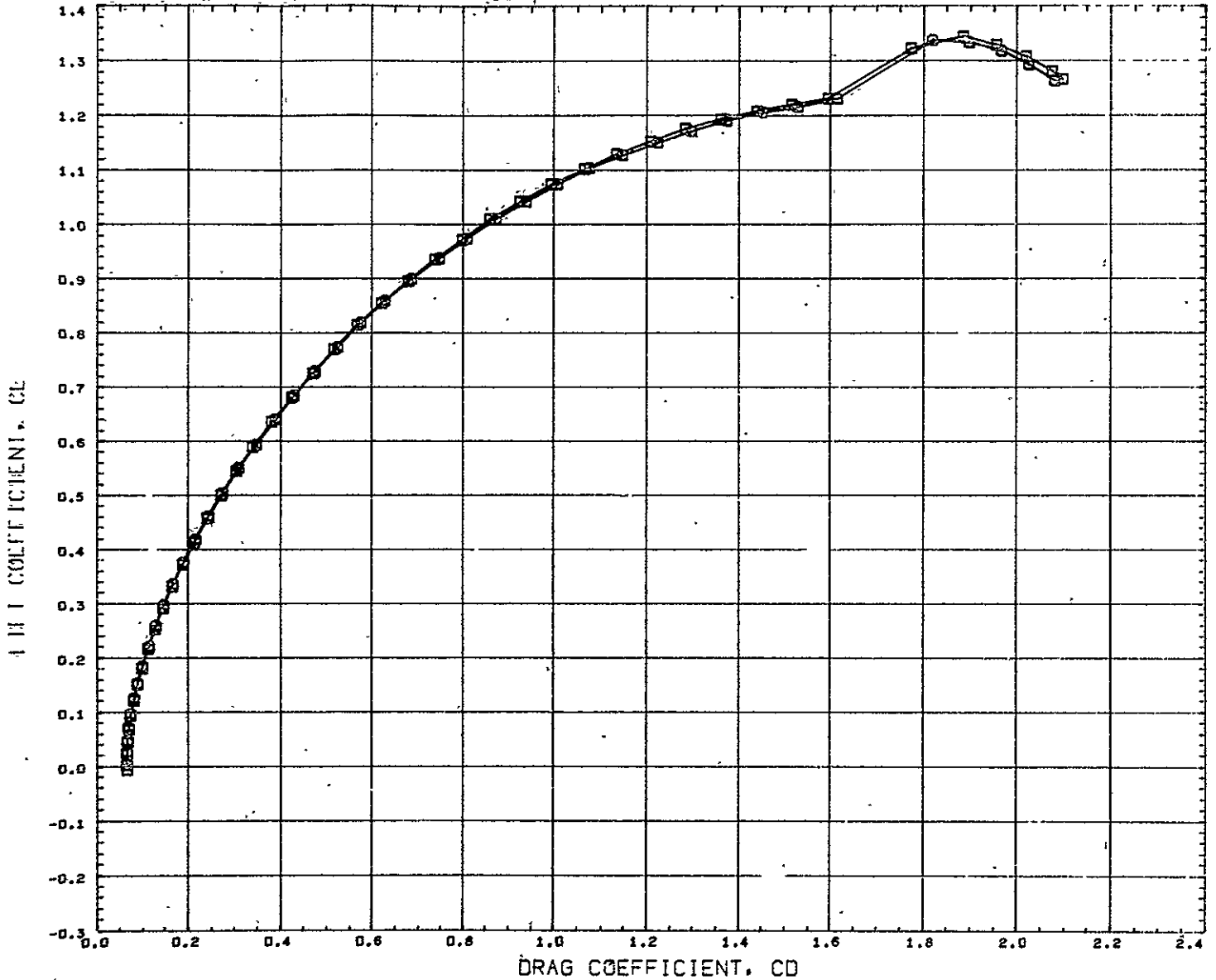


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES				REFERENCE INFORMATION				
(RC9027)	GDHWT 247 B7W5V3	ELEVTR = 0	AILRON = 0	BETA	0.000	ELEVTR	0.000	REFS	12.6740	IN2
(BC9019)	GDHWT 247 B7W5V3	ELEVTR = 0	AILRON = 0	RUDDER	0.000	AILRON	0.000	REFL	10.0380	IN
								REFB	1.4700	IN
								XMRP	6.4000	IN
								YMRP	0.0000	IN
								ZMRP	0.0000	IN
								SCALE	0.0035	

MACH 0.550

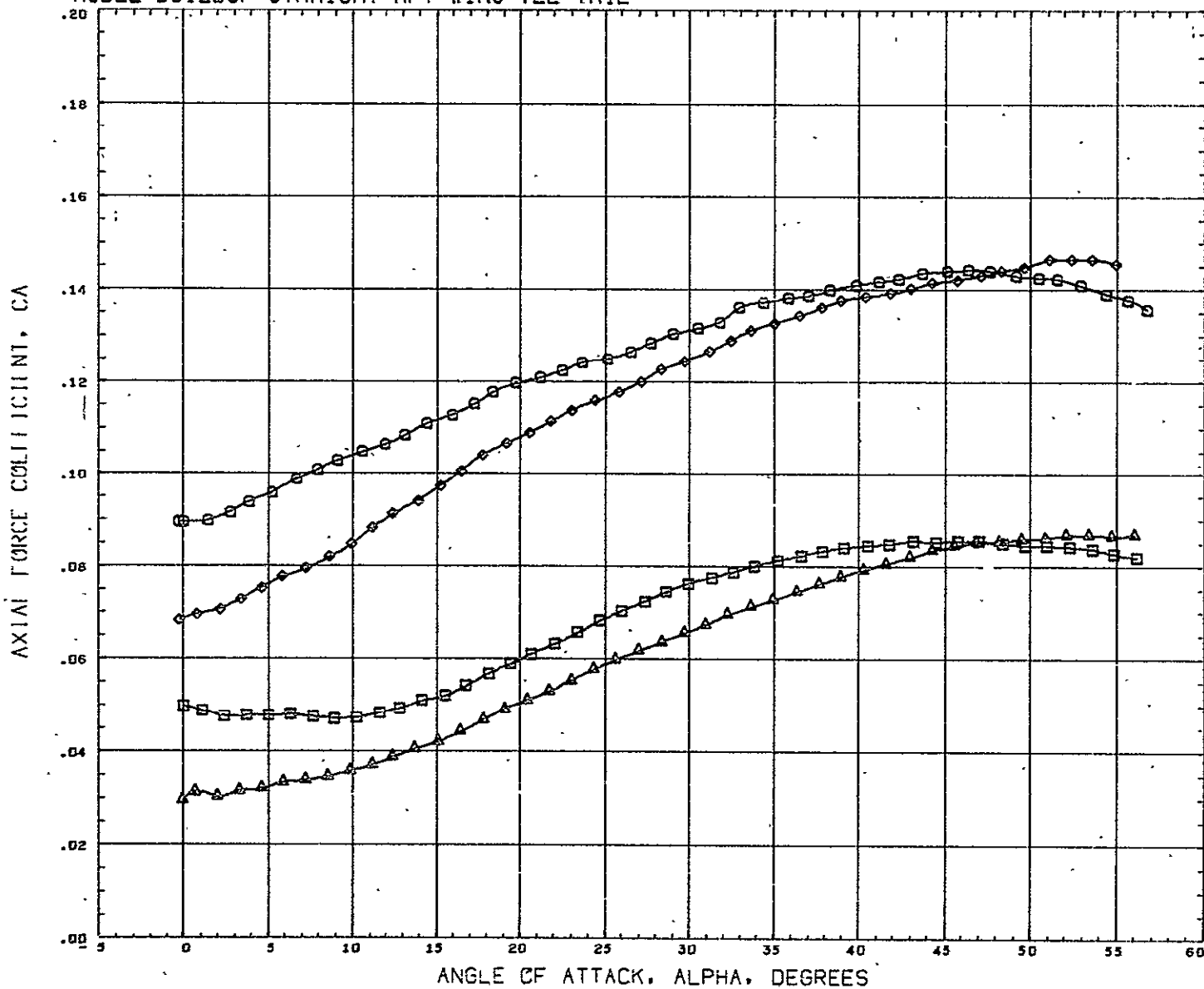
# DATA REPEATABILITY DELTA WING CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9027)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0	REFS 12.6740 IN2
(BC9029)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0	REFL 10.0380 IN
		RUDDER 0.000	REFB 1.4700 IN
			XMRP 6.4000 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

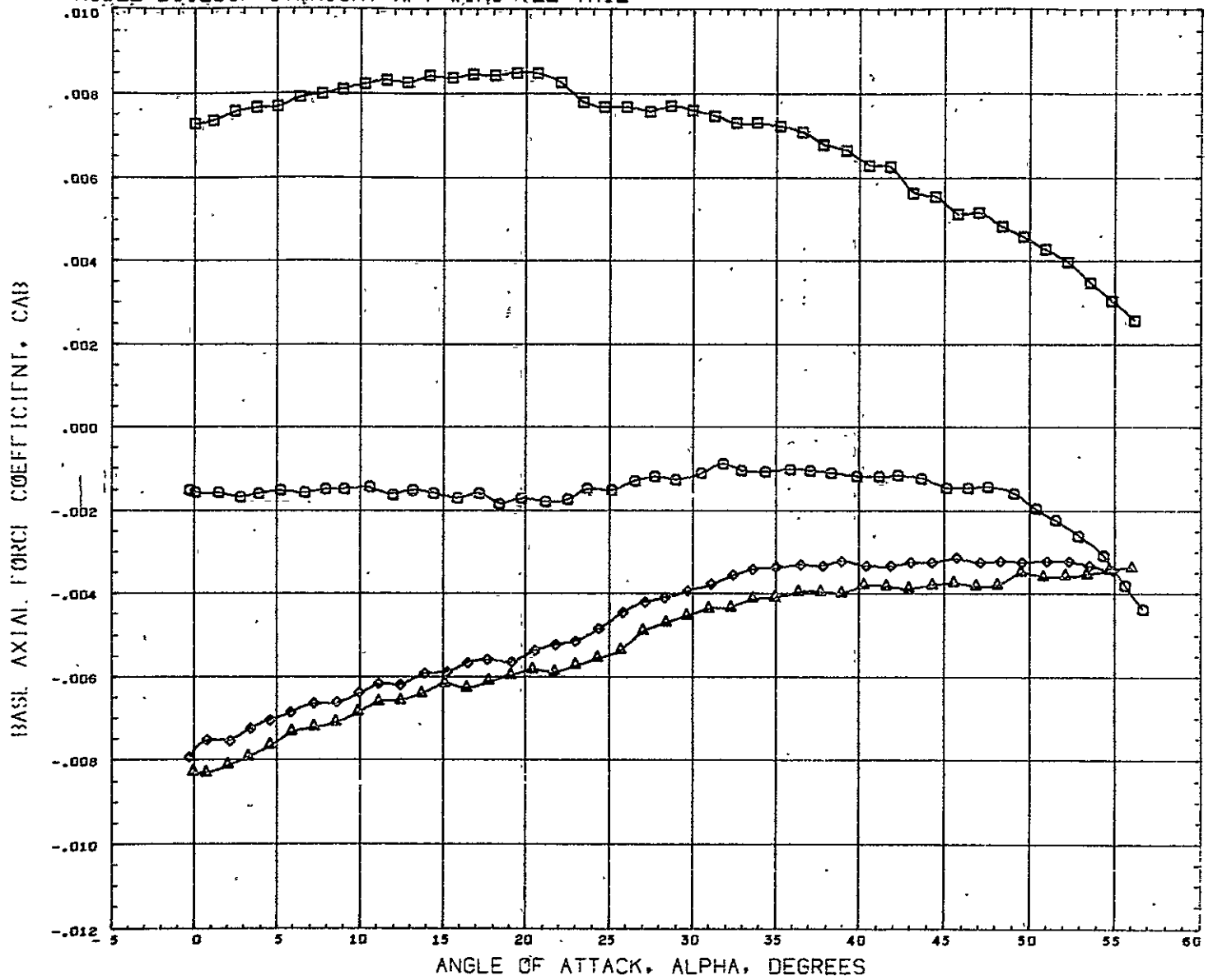
# MODEL BUILDUP STRAIGHT AFT WING VEE TAIL



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9007)	GDHWT 247 B1W31-55	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9036)	GDHWT 247 B1T1-55	ELEVTR = 0 AILRON = 0 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W3		REFB 1.4700 IN
(RC9013)	GDHWT 247 B1		XMRP 6.2920 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 8.050

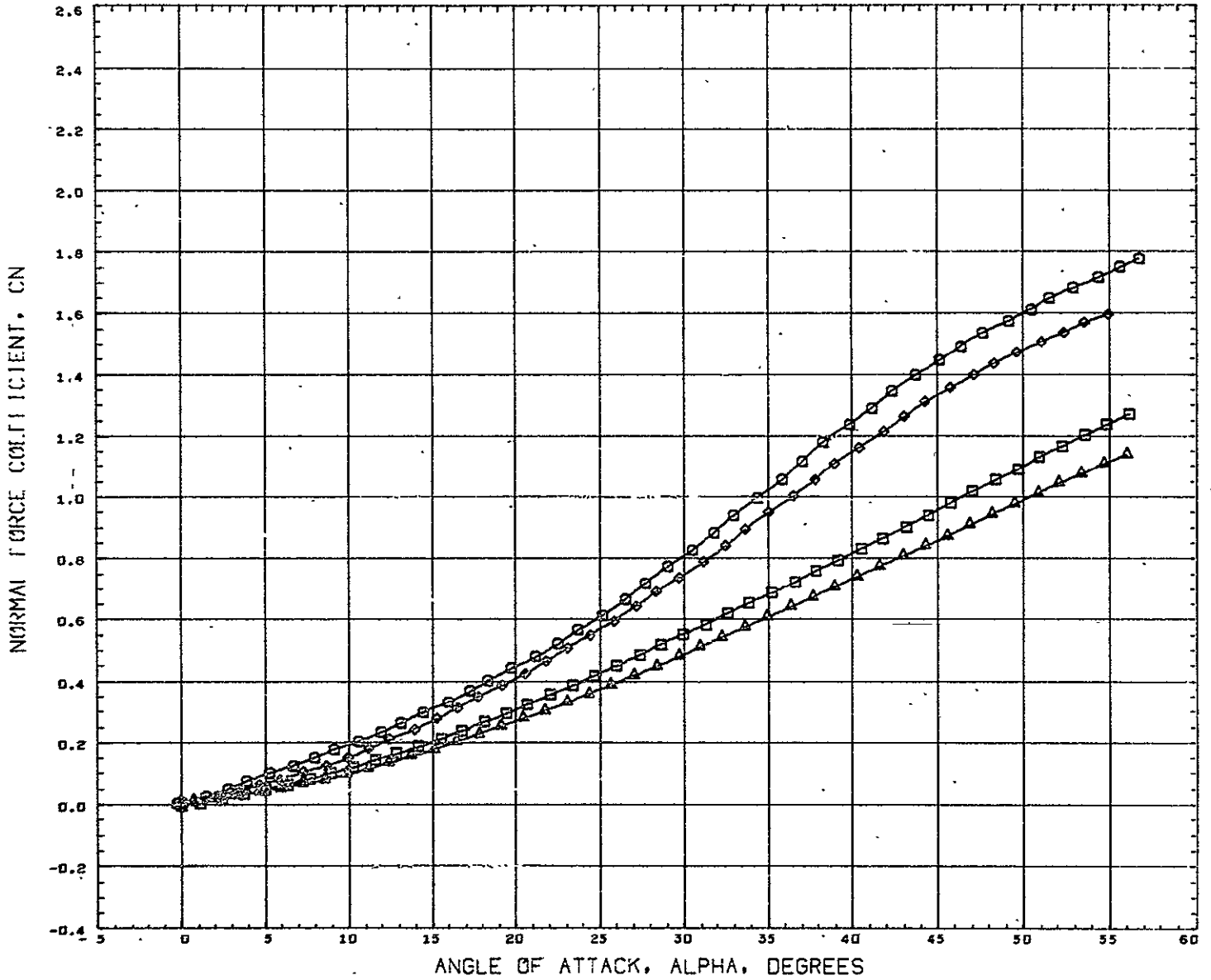
# MODEL BUILDUP STRAIGHT AFT WING VEE TAIL



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9007)	GDHWT 247 B1W31-55	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9036)	GDHWT 247 B1T1-55	ELEVTR = 0 AILRON = 0 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W3		REFB 1.4700 IN
(RC9013)	GDHWT 247 B1		XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

MODEL BUILDUP STRAIGHT AFT WING VEE TAIL

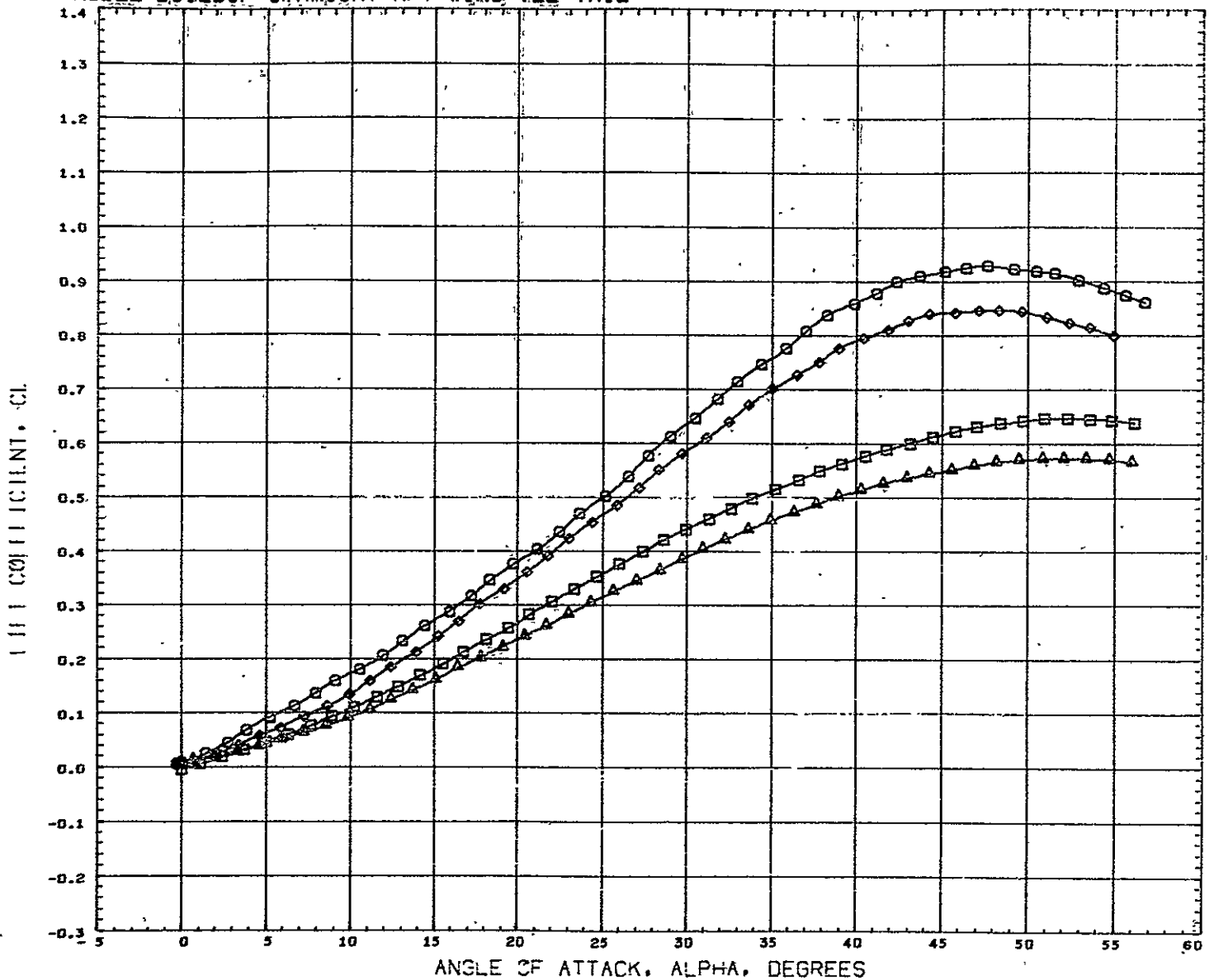


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9007)	GDHWT 247 B1W31-55	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9025)	GDHWT 247 B1T1 55	ELEVTR = 0 AILRON = 0 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W3		REFB 1.4700 IN
(RC9013)	GDHWT 247 B1		XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050



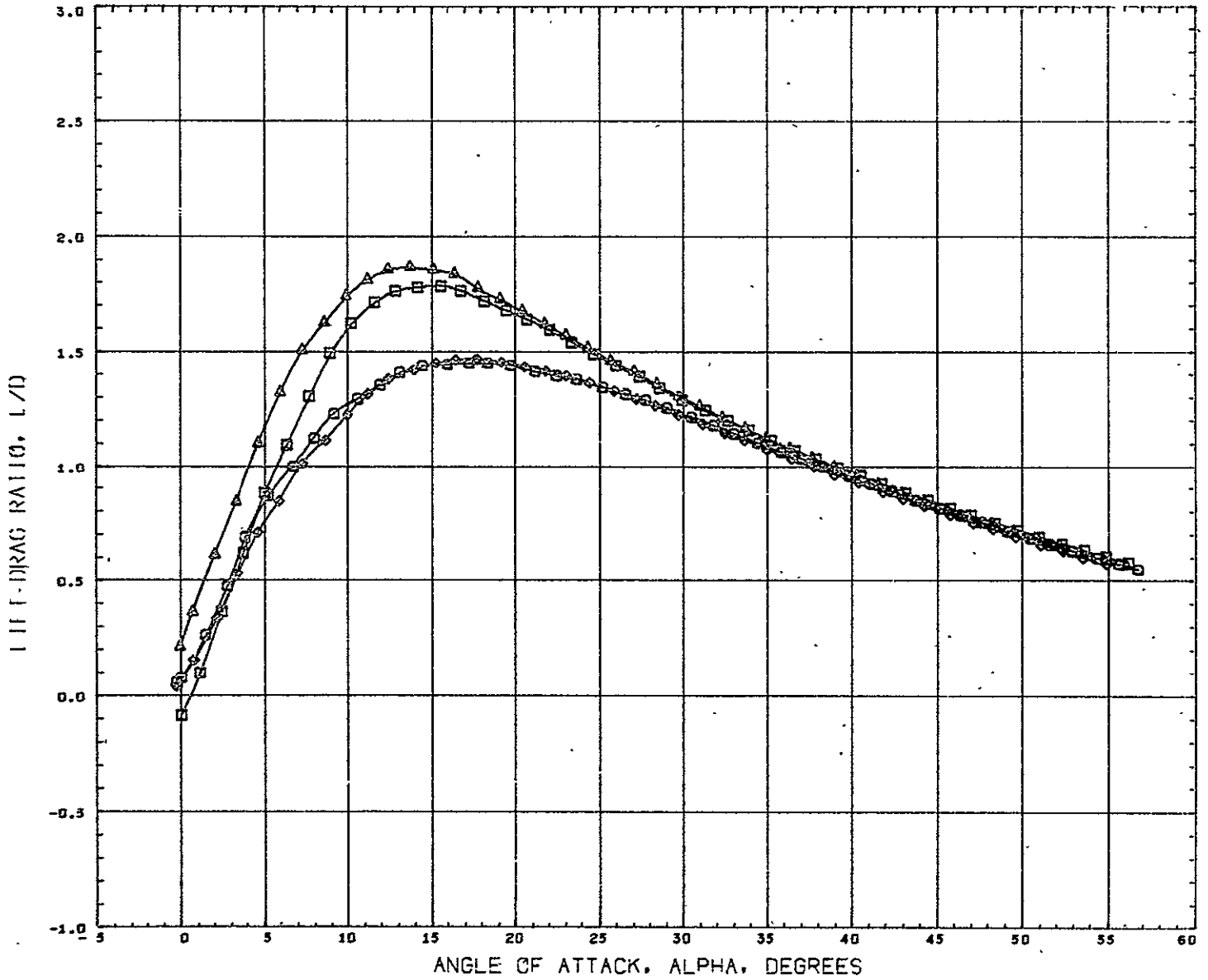
MODEL BUILDUP STRAIGHT AFT WING VEE TAIL



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9007)	GDHWT 247 BIW31-55	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN <sup>2</sup>
(RC9056)	GDHWT 247 BIW1-55	ELEVTR = 0 AILRON = 0 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 BIW3		REFB 1.4700 IN
(RC9013)	GDHWT 247 B1		XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

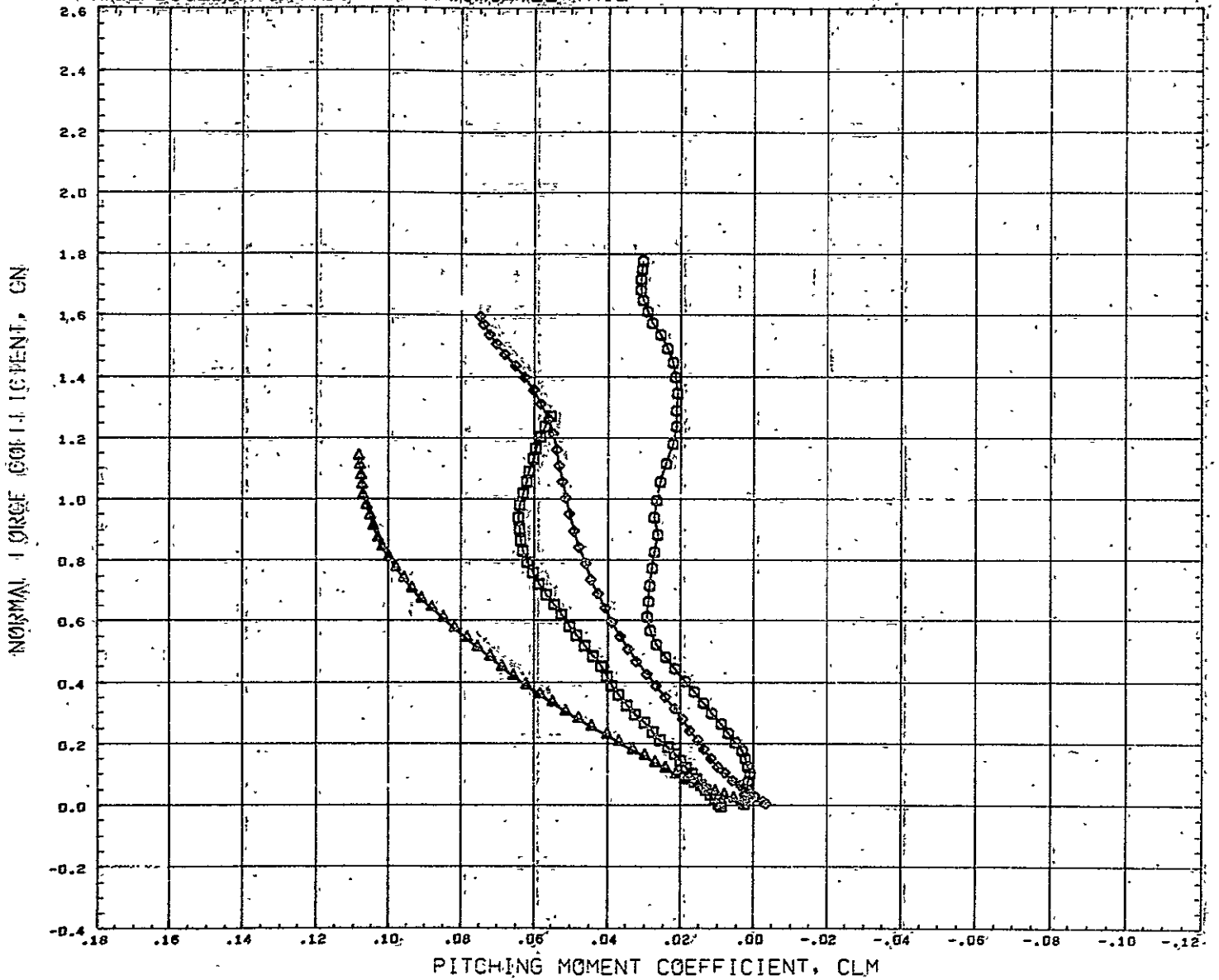
MODEL BUILDUP STRAIGHT AFT WING VEE TAIL



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9007)	GDHWT 247 B1W31-55	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9036)	GDHWT 247 B1T1-55	ELEVTR = 0 AILRON = 0 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W3		REFB 1.4700 IN
(RC9013)	GDHWT 247 B1		XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.056

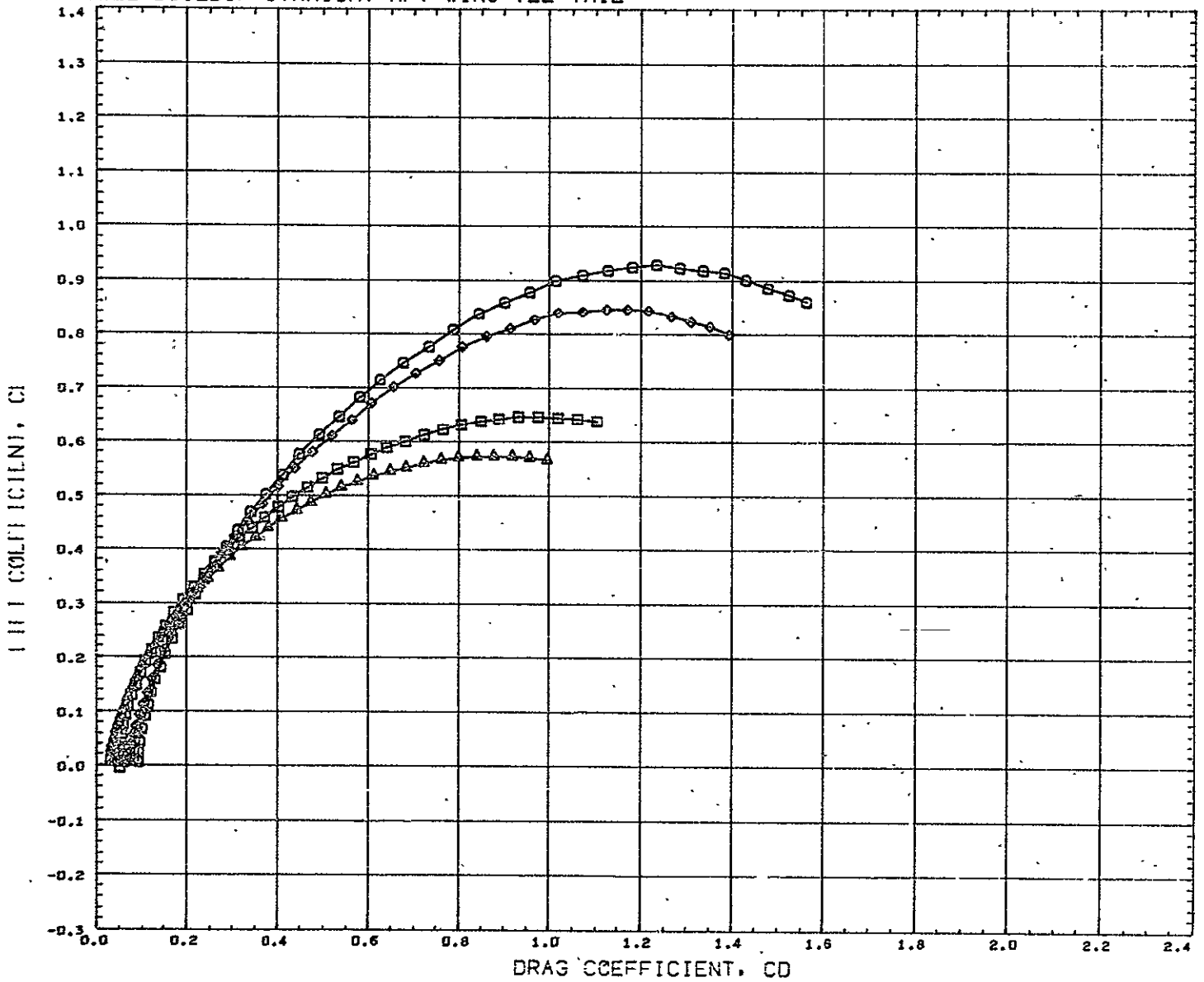
MODEL BUDDOP STRAIGHT AFT WING VEE TAIL



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES				REFERENCE INFORMATION				
(RC9007)	GDHWT 247 B1W31-55	ELEVTR = 0	AILRON = 0	BETA	0.000	ELEVTR	0.000	REFS	12.6740	IN <sup>2</sup>
(RC9006)	GDHWT 247 B1T1-55	ELEVTR = 0	AILRON = 0	AILRON	0.000			REFL	10.0380	IN
(RC9012)	GDHWT 247 B1W3							REFB	1.4700	IN
(RC9013)	GDHWT 247 B1							XHRF	6.2920	IN
								YHRF	0.0000	IN
								ZHRF	0.0000	IN
								SCALE	0.0035	

MACH 8.550

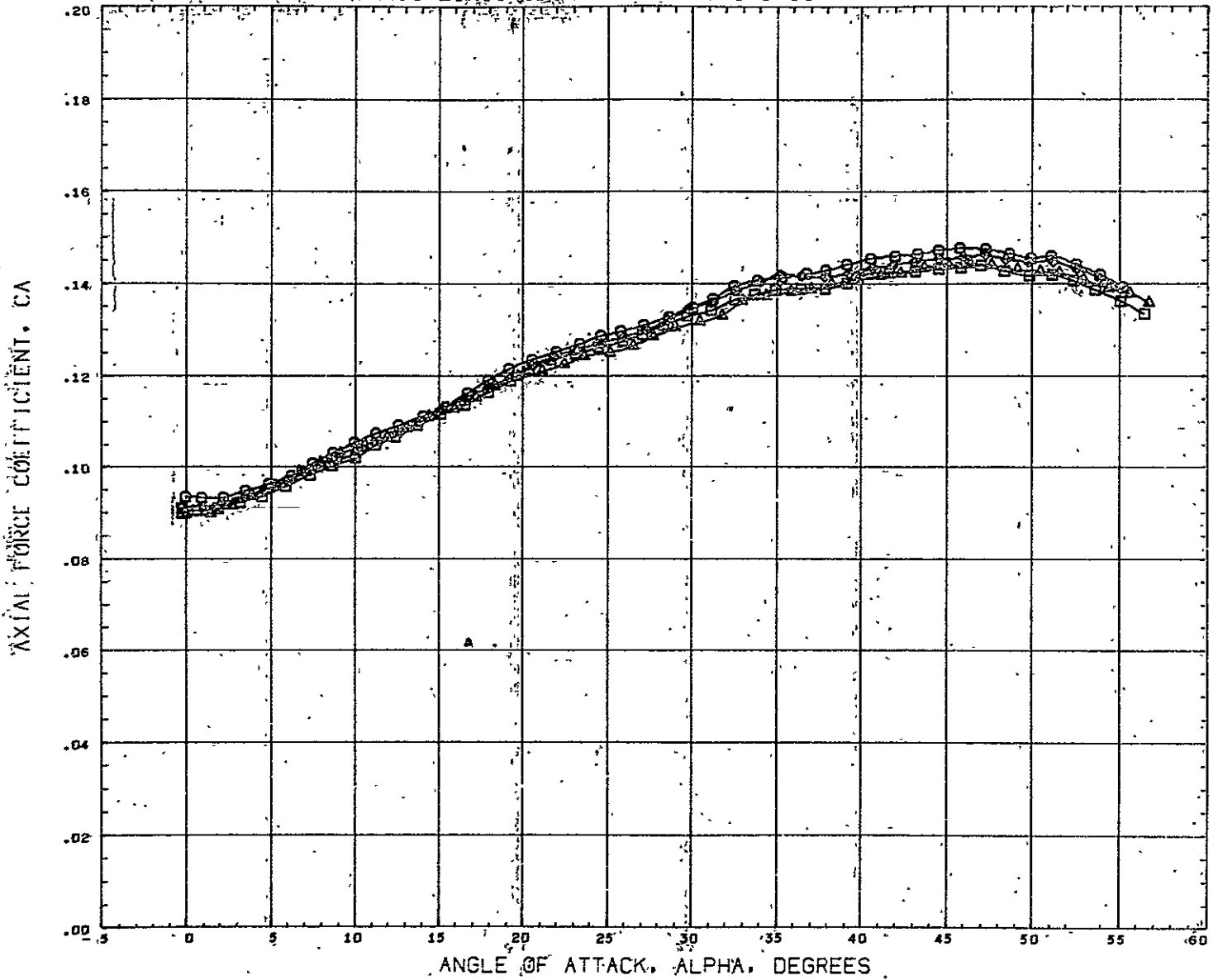
# MODEL BUILDUP STRAIGHT AFT WING VEE TAIL



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9007)	GDHWT 247 BIW31-55	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9010)	GDHWT 247 BIT1-35	ELEVTR = 0 AILRON = 0 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 BIW3		REFB 1.4700 IN
(RC9013)	GDHWT 247 B1		XMRP 5.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

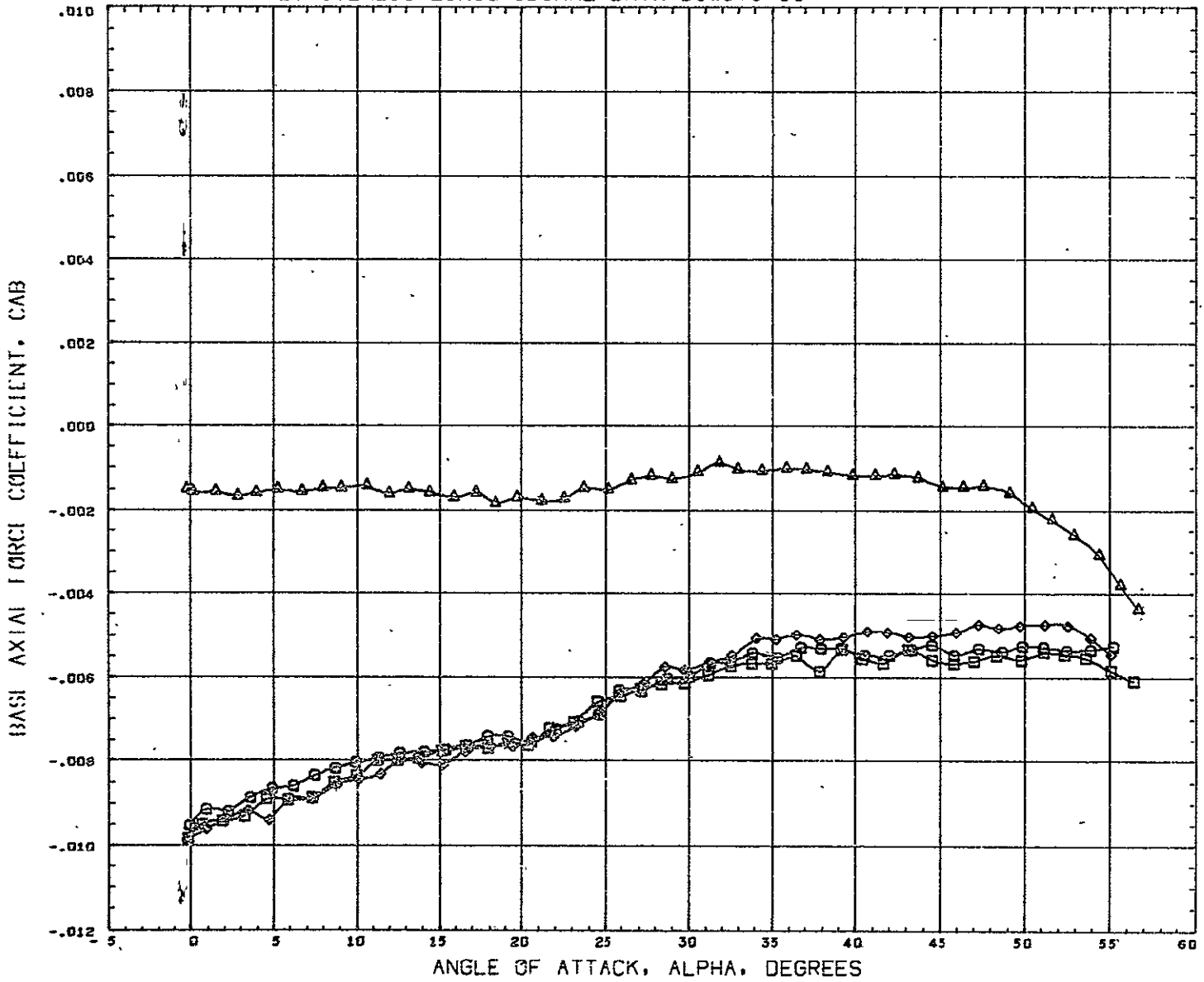
RUDDERATOR EFFECTIVENESS LONGITUDINAL DATA B1W3T1-55



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9010)	GDHWT 247 B1W31-55	ELEVTR = -40 AILRON = 0 BETA 0.000 ELEVTR - 40.000	REFS 12.6740 IN2
(RC9005)	GDHWT 247 B1W31-55	ELEVTR = -20 AILRON = 0 AILRON 0.000	REFL 10.0380 IN
(RC9008)	GDHWT 247 B1W31-55	ELEVTR = -15 AILRON = 0	REFB 1.4700 IN
(RC9007)	GDHWT 247 B1W31-55	ELEVTR = 0 AILRON = 0	XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

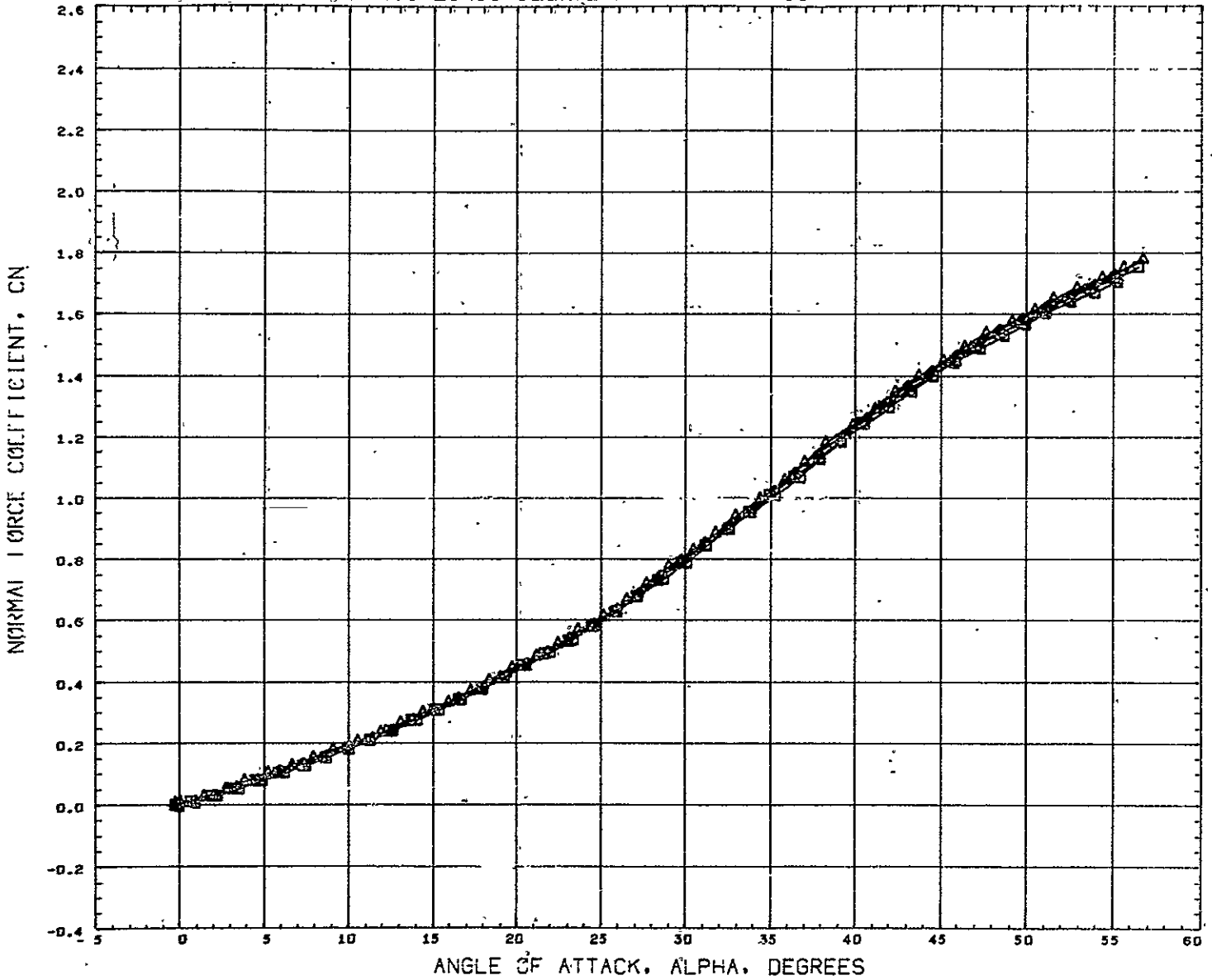
RUDDERATOR EFFECTIVENESS LONGITUDINAL DATA B1W3T1-55



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9010)	GDHWT 247 B1W31-55	ELEVTR = -40 AILRON = 0 BETA 0.000 ELEVTR - 40.000	REFS 12.6740 IN2
(RC9052)	GDHWT 247 B1W31-55	ELEVTR = -20 AILRON = 0 AILRON 0.000	REFL 10.0380 IN
(RC9008)	GDHWT 247 B1W31-55	ELEVTR = -10 AILRON = 0	REFB 1.4700 IN
(RC9007)	GDHWT 247 B1W31-55	ELEVTR = 0 AILRON = 0	XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 6.050

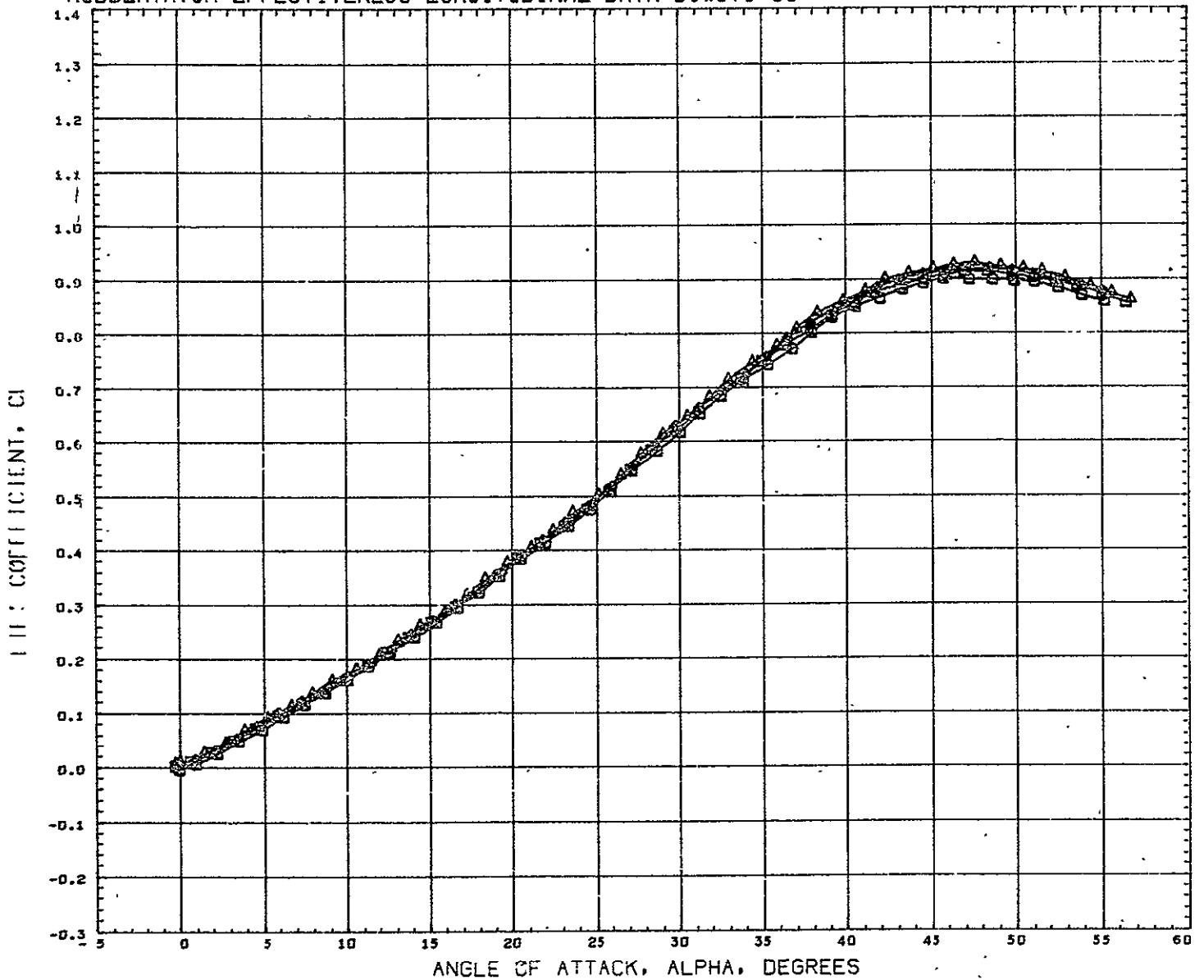
# RUDDERATOR EFFECTIVENESS LONGITUDINAL DATA B1W3T1-55



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9010)	GDHWT 247 B1W31-55	ELEVTR = -40 AILRON = 0 BETA 0.000 ELEVTR - 40.000	REFS 12.6740 IN2
(RC9009)	GDHWT 247 B1W31-35	ELEVTR = -20 AILRON = 0 AILRON 0.000	REFL 10.0380 IN
(RC9008)	GDHWT 247 B1W31-55	ELEVTR = -10 AILRON = 0	REFB 1.4700 IN
(RC9007)	GDHWT 247 B1W31-55	ELEVTR = 5 AILRON = 0	XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

# RUDDERATOR EFFECTIVENESS LONGITUDINAL DATA B1W3T1-55

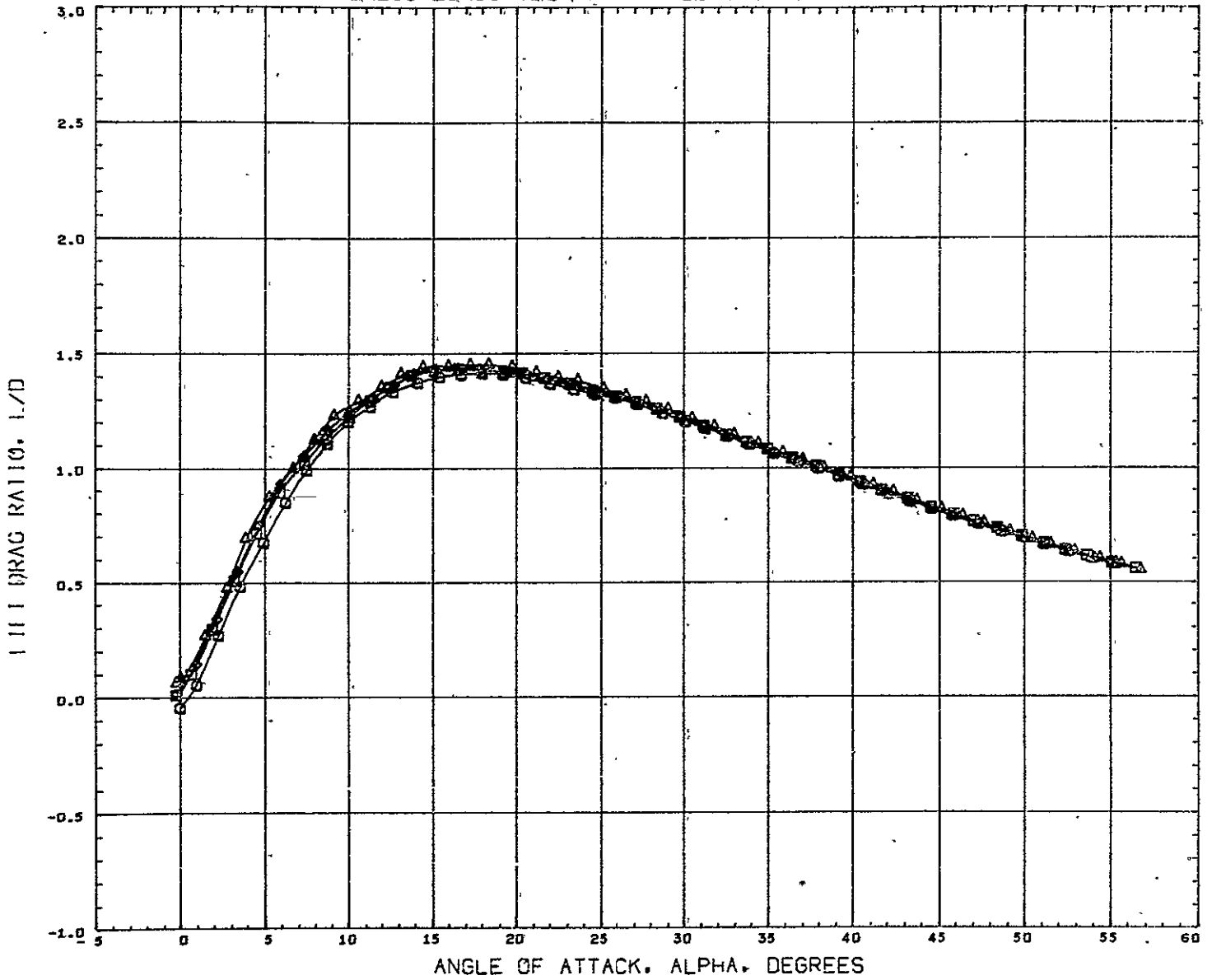


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9010)	GDHWT 247 B1W31-55	ELEVTR = -40 AILRON = 0 BETA 0.000 ELEVTR - 40.000	REFS 12.6740 IN2
(RC9005)	GDHWT 247 B1W31 55	ELEVTR = -20 AILRON = 0 AILRON 0.000	REFL 10.0380 IN
(RC9006)	GDHWT 247 B1W31-55	ELEVTR = -10 AILRON = 0	REFB 1.4700 IN
(RC9007)	GDHWT 247 B1W31-55	ELEVTR = 0 AILRON = 0	XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050



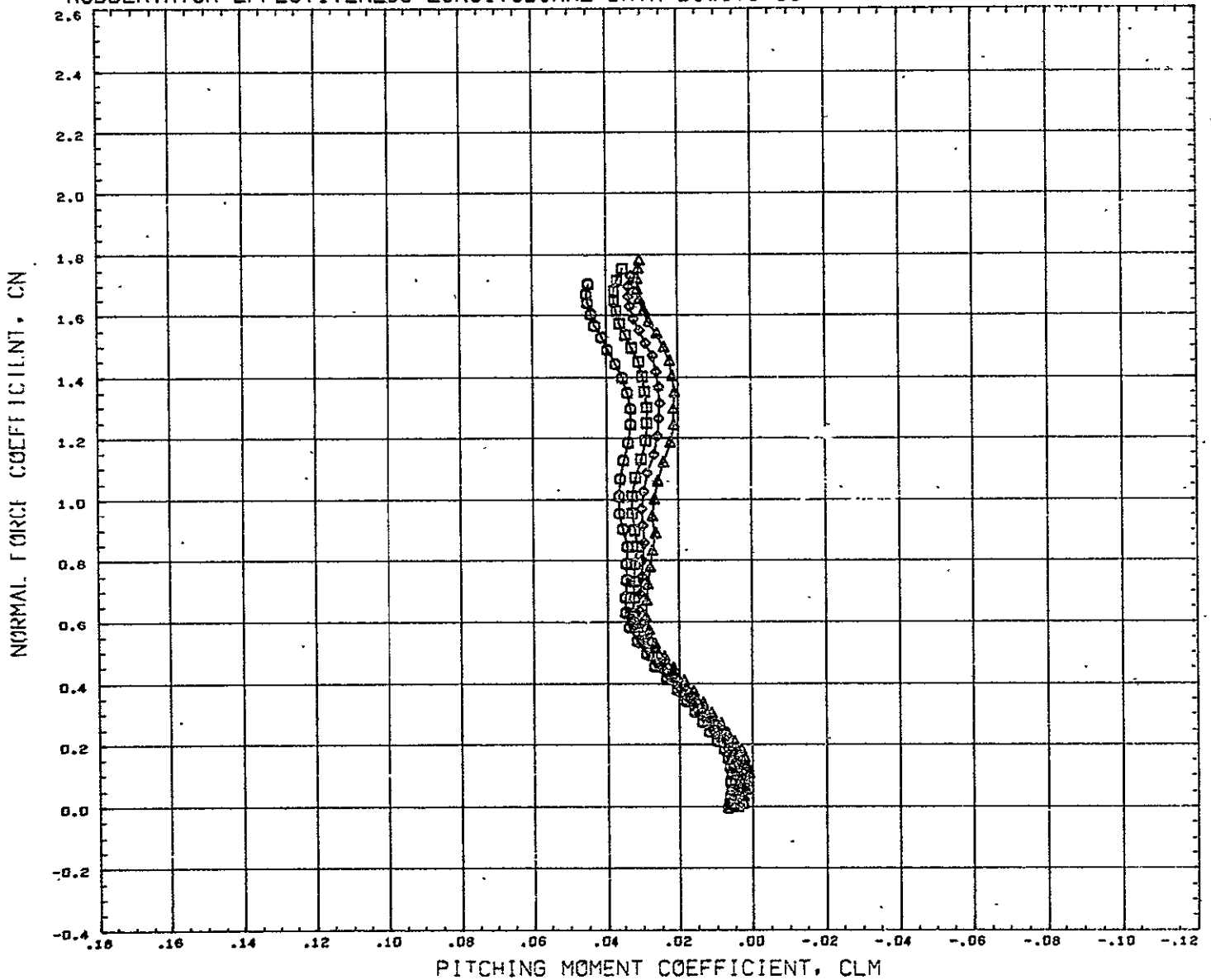
# RUDDERVATOR EFFECTIVENESS LONGITUDINAL DATA B1W3T1-55



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9010)	GDHWT 247 B1W31-55	ELEVTR = -40 AILRON = G	BETA 0.000 ELEVTR - 40.000
(RC9009)	GDHWT 247 B1W31-55	ELEVTR = -20 AILRON = G	REFS 12.6740 IN2
(RC9008)	GDHWT 247 B1W31-55	ELEVTR = -10 AILRON = G	REFL 10.0380 IN
(RC9007)	GDHWT 247 B1W31-55	ELEVTR = 0 AILRON = G	REFB 1.4700 IN
			XHRF 6.2920 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 8.050

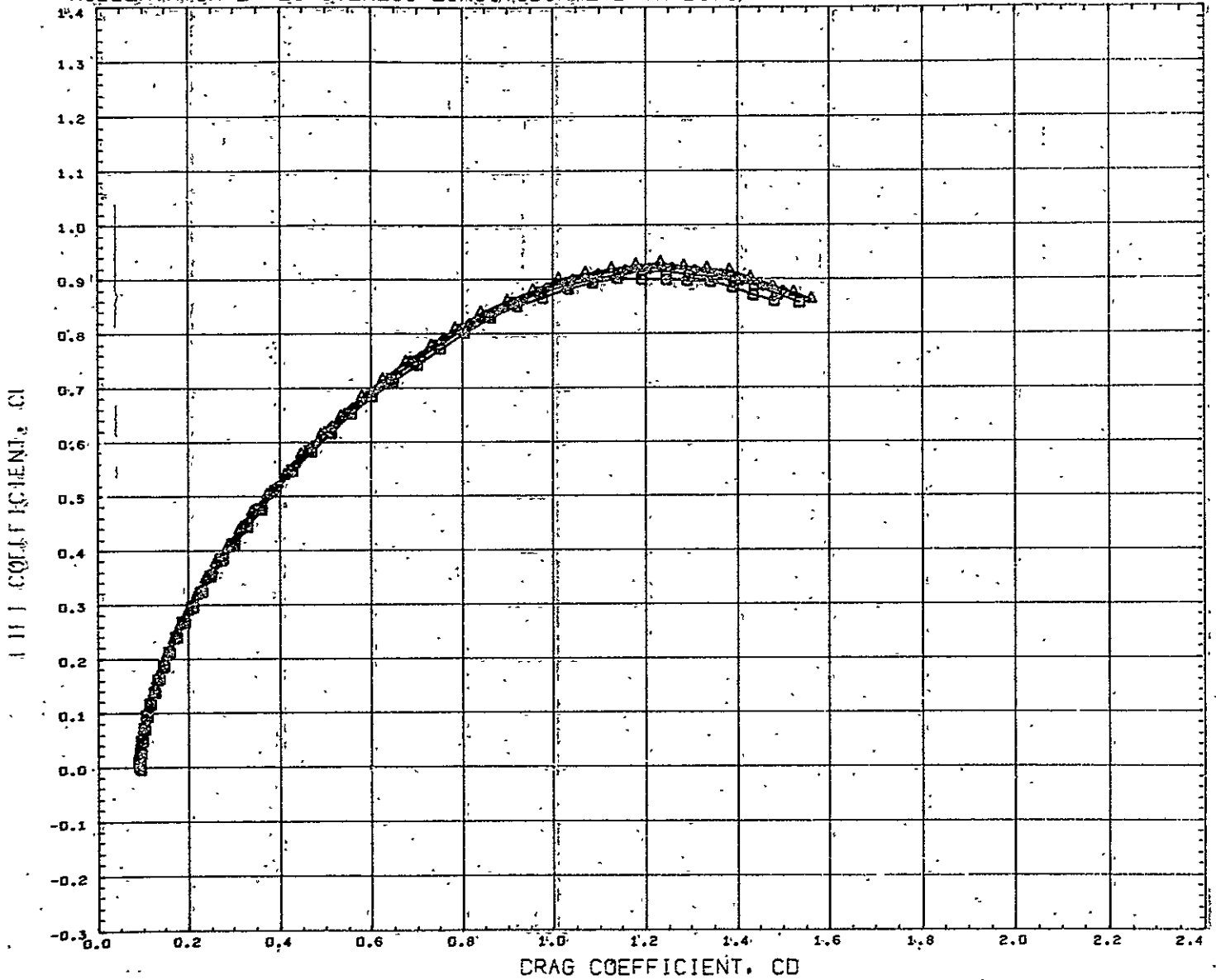
# RUDDERVATOR EFFECTIVENESS LONGITUDINAL DATA B1W3T1-55



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9010)	GDHWT 247 B1W31-55	ELEVTR = -40 AILRON = 0 OCT4 0.000 ELEVTR = 40.000	REFS 12.6740 IN2
(RC9009)	GDHWT 2 7 B1W31-55	ELEVTR = -20 AILRON = 0 AILRON 0.000	REFL 10.0380 IN
(RC9008)	GDHWT 247 B1W31-55	ELEVTR = -10 AILRON = 0	REFB 1.4700 IN
(RC9007)	GDHWT 247 B1W31-55	ELEVTR = 0 AILRON = 0	XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

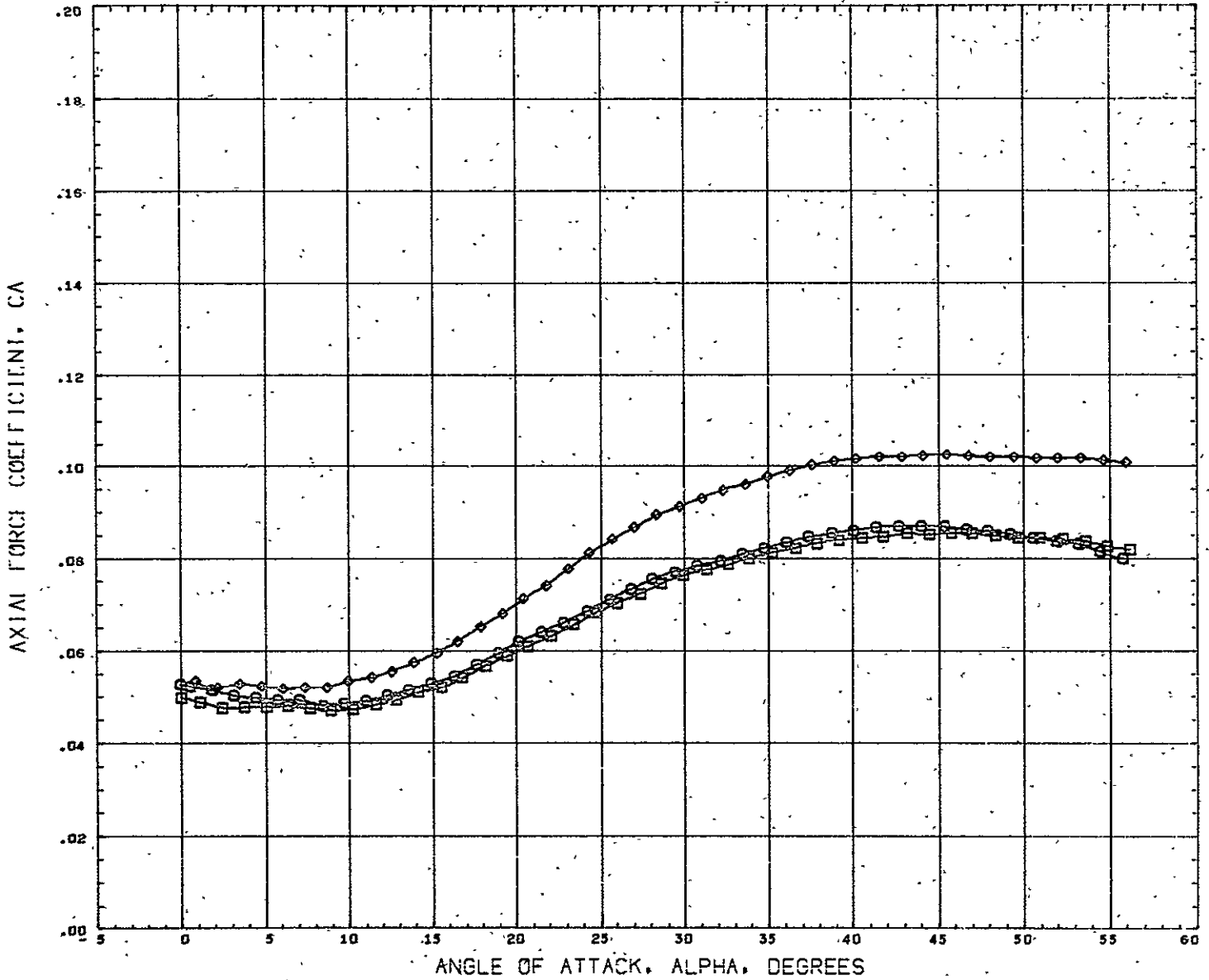
RUDDERATOR EFFECTIVENESS LONGITUDINAL DATA B1W3T1-55



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9010)	□	GDHWT 247 B1W31-55 ELEVTR = -40 AILRON = 0	REFS 12.6740 IN <sup>2</sup>	
(RC9009)	□	GDHWT 247 B1W31-55 ELEVTR = -20 AILRON = 0	REFL 10.0380 IN	
(RC9008)	◇	GDHWT 247 B1W31-55 ELEVTR = -10 AILRON = 0	REFB 1.4700 IN	
(RC9007)	△	GDHWT 247 B1W31-55 ELEVTR = 0 AILRON = 0	XHRF 6.2920 IN	
			YHRF 0.0000 IN	
			ZHRF 0.0000 IN	
			SCALE 0.0035	

MACH 8.050

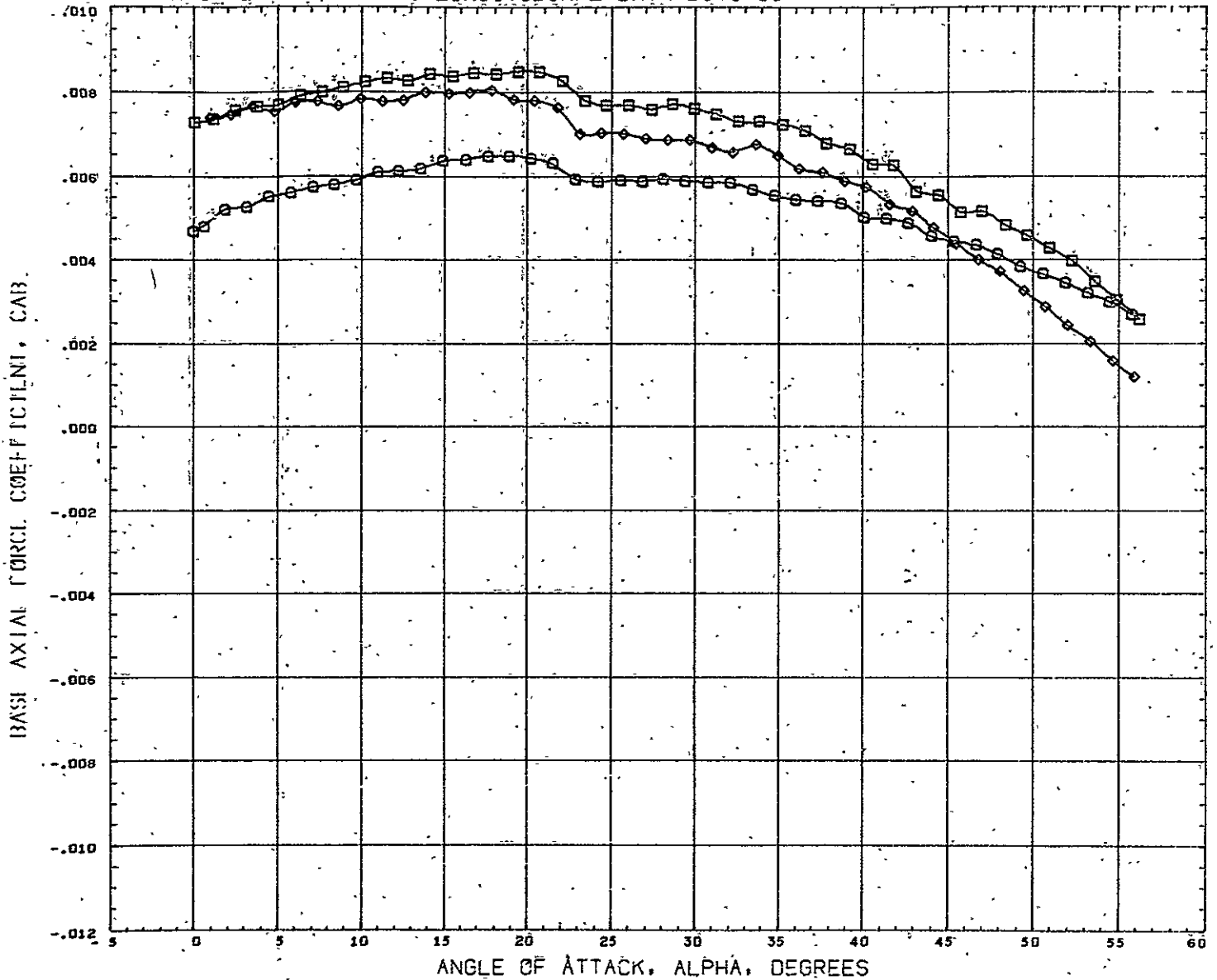
# RUDDERVATOR EFFECTIVENESS LONGITUDINAL DATA BIT1-55



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9035)	GDHWT 247 B1T1-55	FLEVTR = -40 AILRON = 0 BETA 0.000 ELEVTR = 40.000	REFS 12.6740 IN2
(RC9036)	GDHWT 247 B1T1-55	ELEVTR = 0 AILRON = 0 AILRON 0.000	REFL 10.0380 IN
(RC9037)	GDHWT 247 B1T1-55	ELEVTR = 20 AILRON = 0	REFB 1.4700 IN
			XMR <sup>o</sup> 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

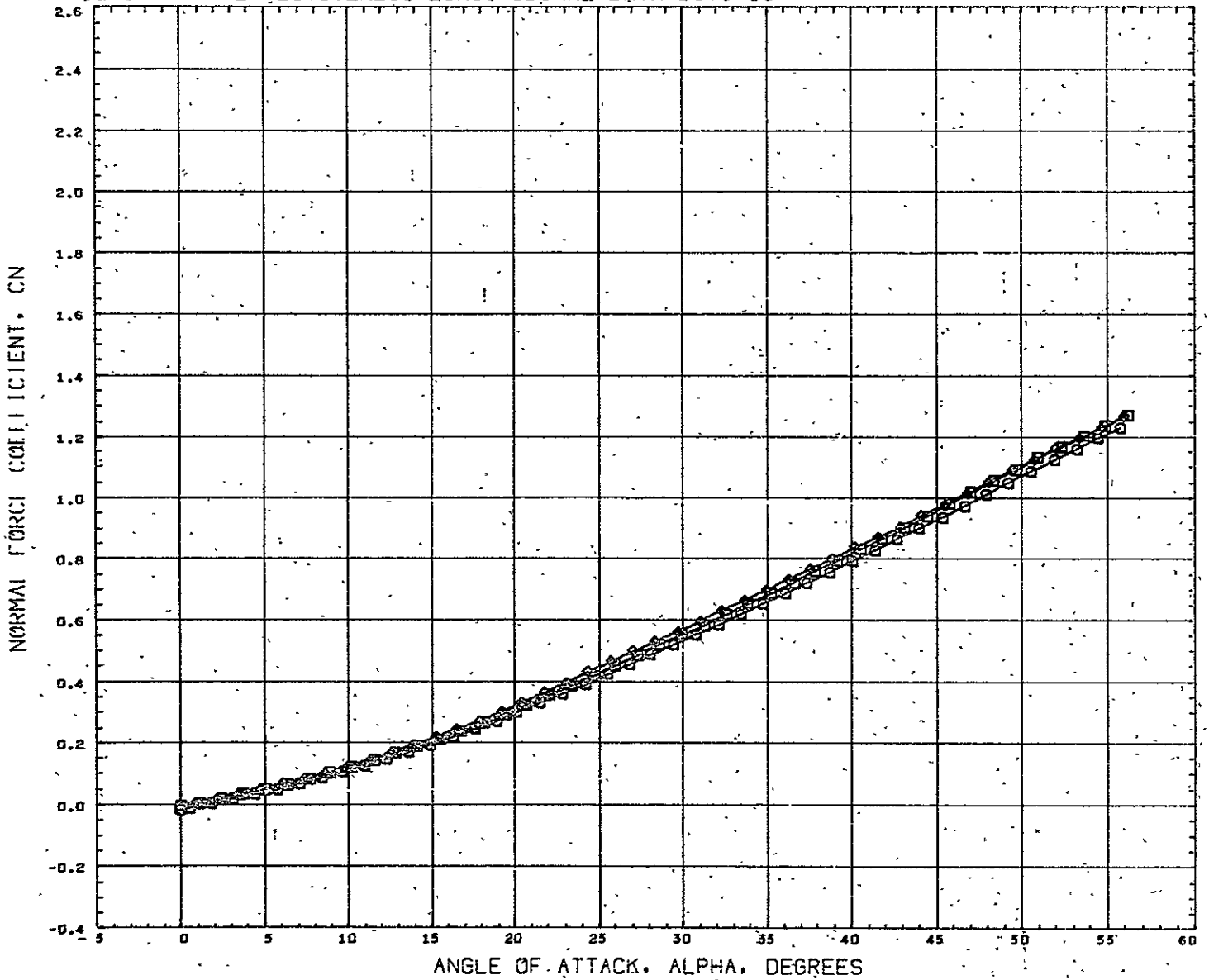
# RUDDERATOR EFFECTIVENESS LONGITUDINAL DATA BIT1-55



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9038)	GDHWT 247 BIT1-55	ELEVTR = -40 AILRON = 0 BETA 0.000 ELEVTR - 40.000	REFS 12.6740 IN <sup>2</sup>
(RC9036)	GDHWT 247 BIT1-55	ELEVTR = 0 AILRON = 0 AILRON 0.000	REFL 10.0380 IN
(RC9037)	GDHWT 247 BIT1-55	ELEVTR = 20 AILRON = 0	REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

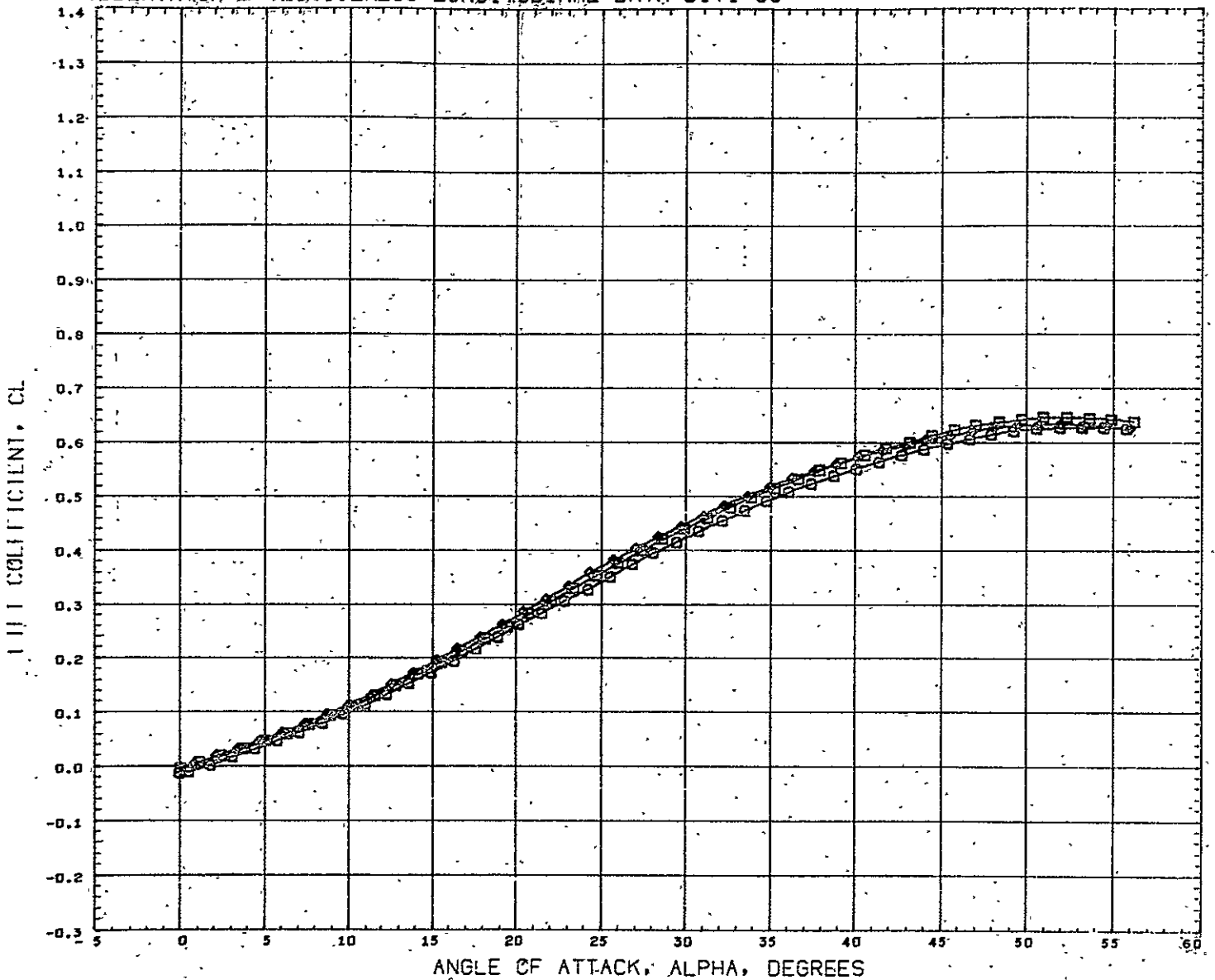
# RUDDERVATOR EFFECTIVENESS LONGITUDINAL DATA BIT1-55



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9038)	GDHWT 247 BIT1-55	ELEVTR = -40 AILRON = 0	SETA 0.000 ELEVTR - 40.000
(RC9036)	GDHWT 247 BIT1-55	ELEVTR = 0 AILRON = 0	REFS 12.6740 IN2
(RC9037)	GDHWT 247 BIT1-55	ELEVTR = 20 AILRON = 0	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

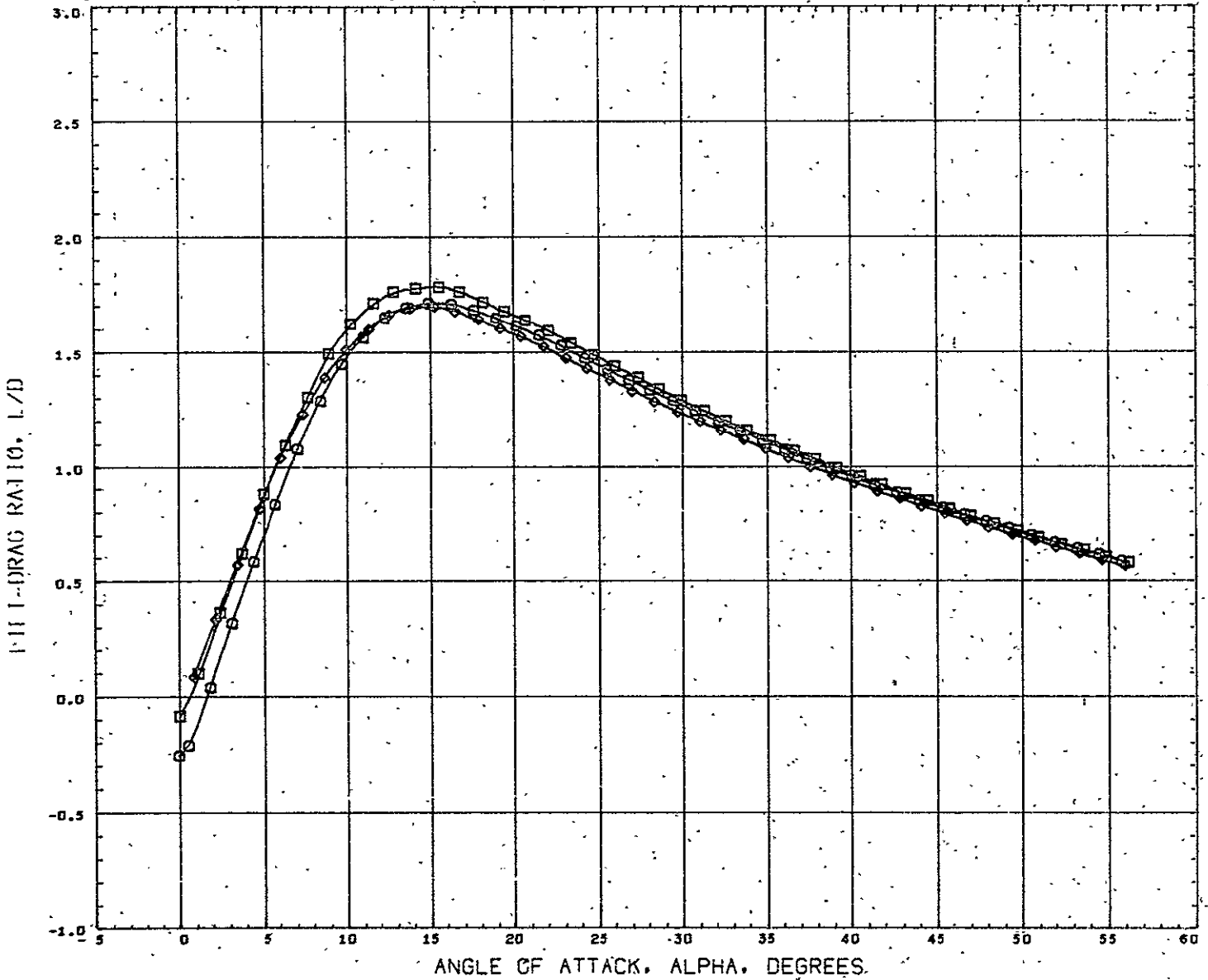
# RUDDERVATOR EFFECTIVENESS LONGITUDINAL DATA BIT1-55



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9038)	GDHWT 247 BIT1-55	ELEVTR = -40 AILRON = 0 BETA .0.000 ELEVTR = 40.000	REFS 12.6740 IN2
(RC9036)	GDHWT 247 BIT1-55	ELEVTR = 0 AILRON = 0 AILRON 0.000	REFL 10.0380 IN
(RC9037)	GDHWT 247 BIT1-55	ELEVTR = 20 AILRON = 0	REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0935

MACH 8.050

# RUDDERVATOR EFFECTIVENESS LONGITUDINAL DATA BITI-55

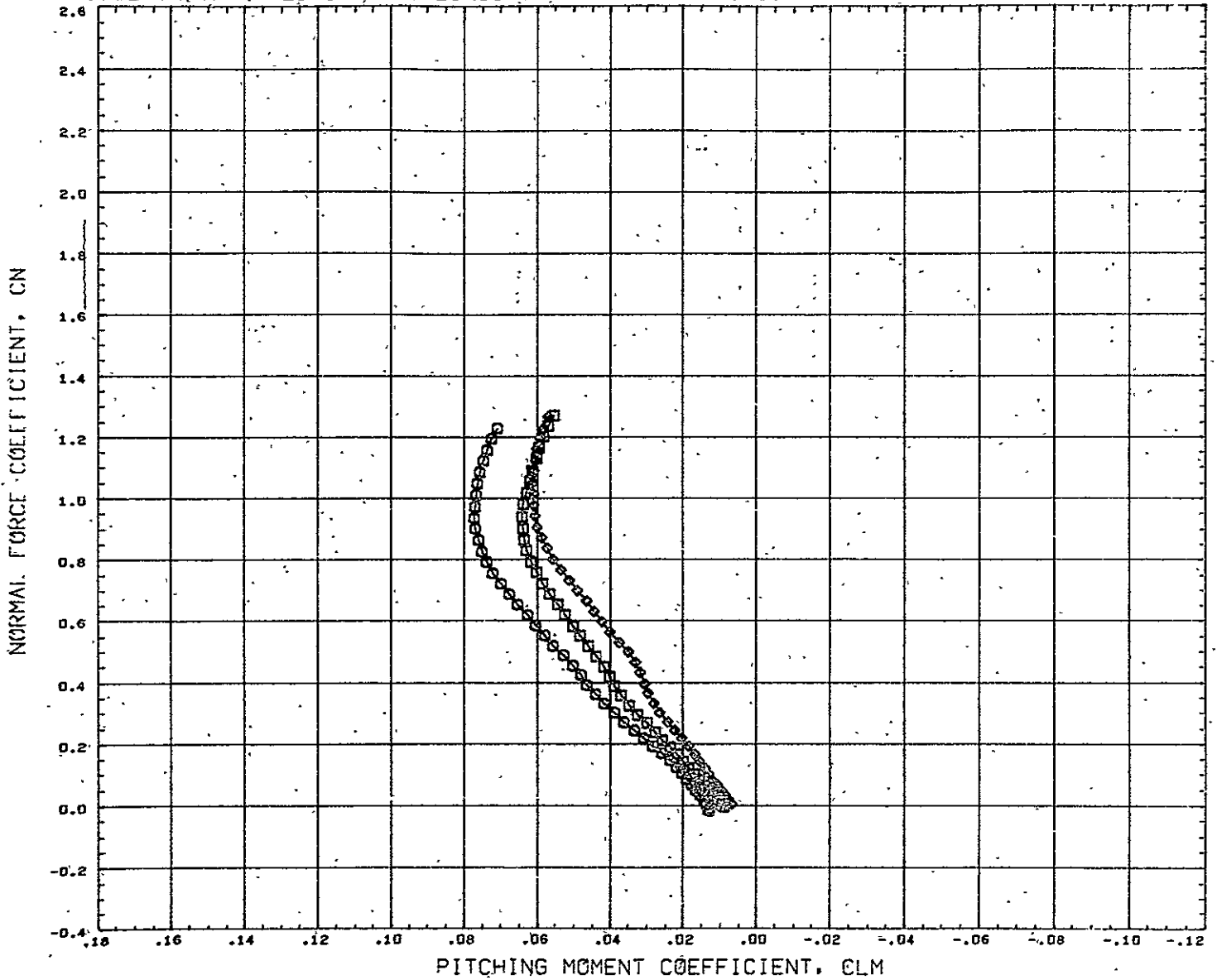


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(C9038)	GDHWT 247 BITI-55	ELEVTR = -40 AILRON = 0 BETA = 0.000 ELEVTR = 40.000	REFS 12.6740 IN2.
(C9036)	GDHWT 247 BITI-55	ELEVTR = 0 AILRON = 0 AILRON = 0.000	REFL 10.0380 IN
(C9037)	GDHWT 247 BITI-55	ELEVTR = 20 AILRON = 0	REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050



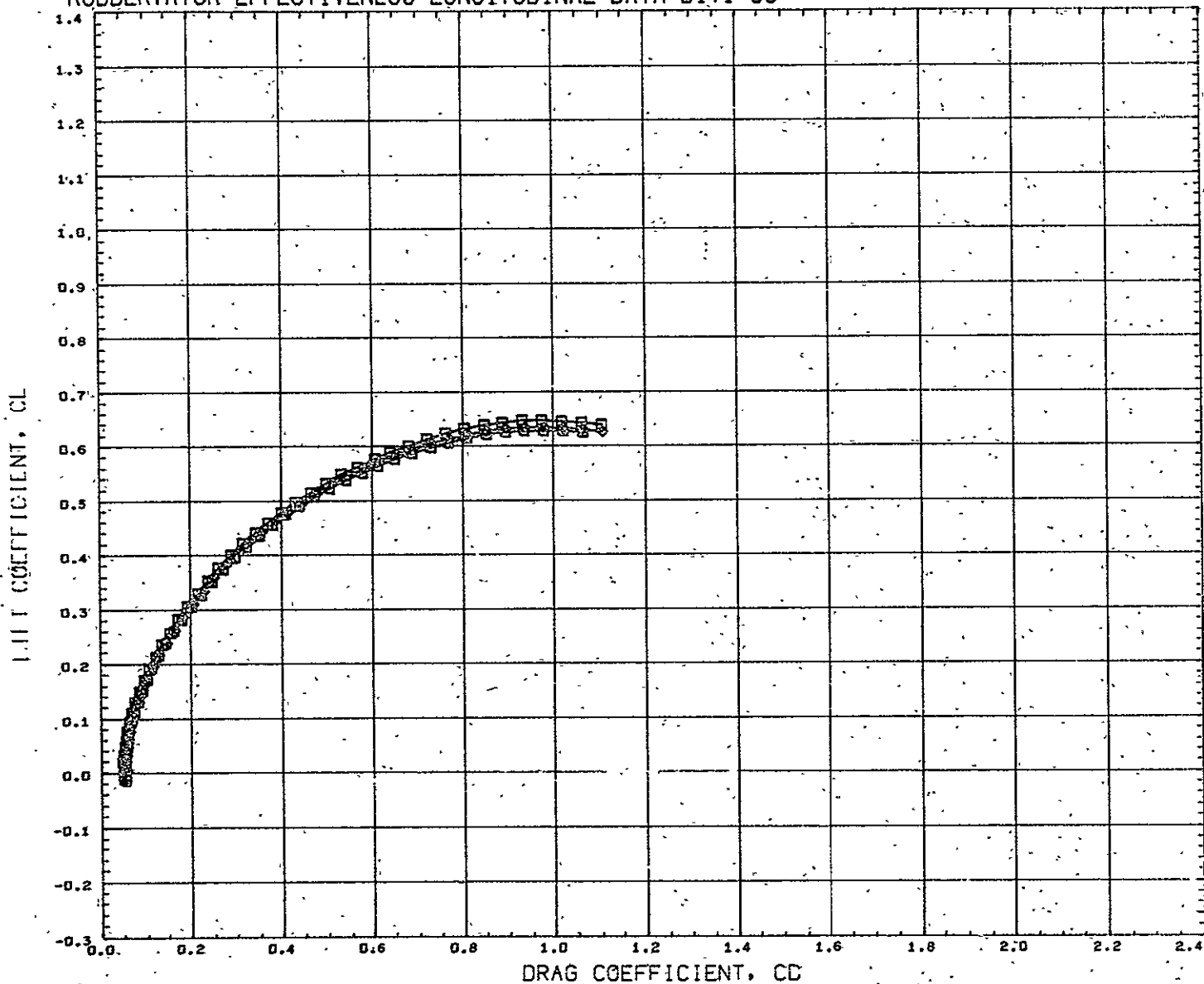
# RUDDERVATOR EFFECTIVENESS LONGITUDINAL DATA BIT1-55



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9038)	GDHWT 247 BIT1-55	ELEVTR = -40 AILRON = 0 BETA 0.000 ELEVTR - 40.000	REFS 12.6740 IN2
(RC9036)	GDHWT 247 BIT1-55	ELEVTR = 0 AILRON = 0 AILRON 0.000	REFL 10.0380 IN
(RC9037)	GDHWT 247 BIT1-55	ELEVTR = 26 AILRON = 0	REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

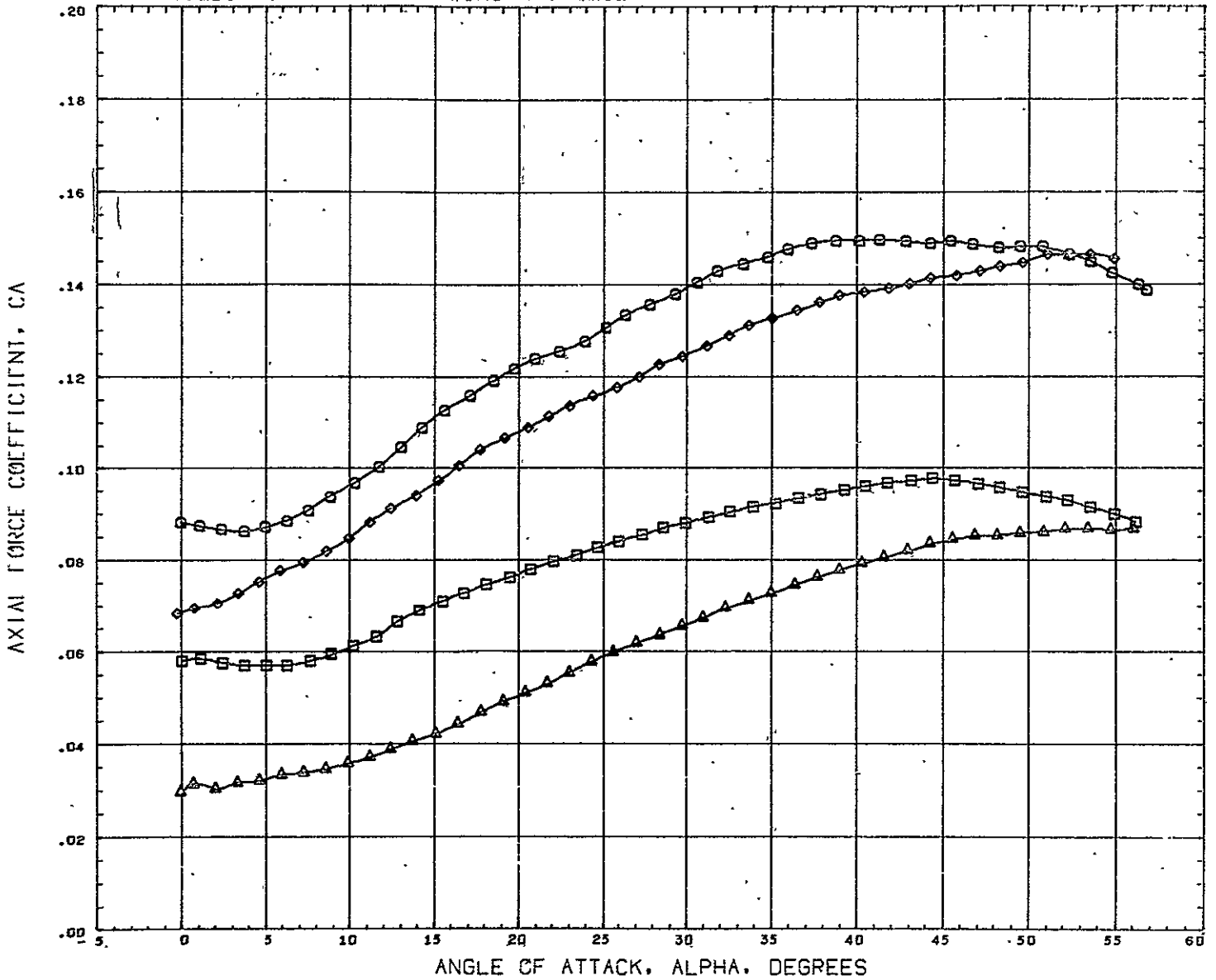
# RUDDERATOR EFFECTIVENESS LONGITUDINAL DATA BIT1-55



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9035)	GDHWT 247 BIT1-55	ELEVTR = -40 AILRON = 0 BETA 0.000 ELEVTR = 40.000	REFS 12.6740 IN2
(RC9036)	GDHWT 247 BIT1-55	ELEVTR = 0 AILRON = 0 AILRON 0.000	REEL 10.0380 IN
(RC9037)	GDHWT 247 BIT1-55	ELEVTR = 20 AILRON = 0	REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

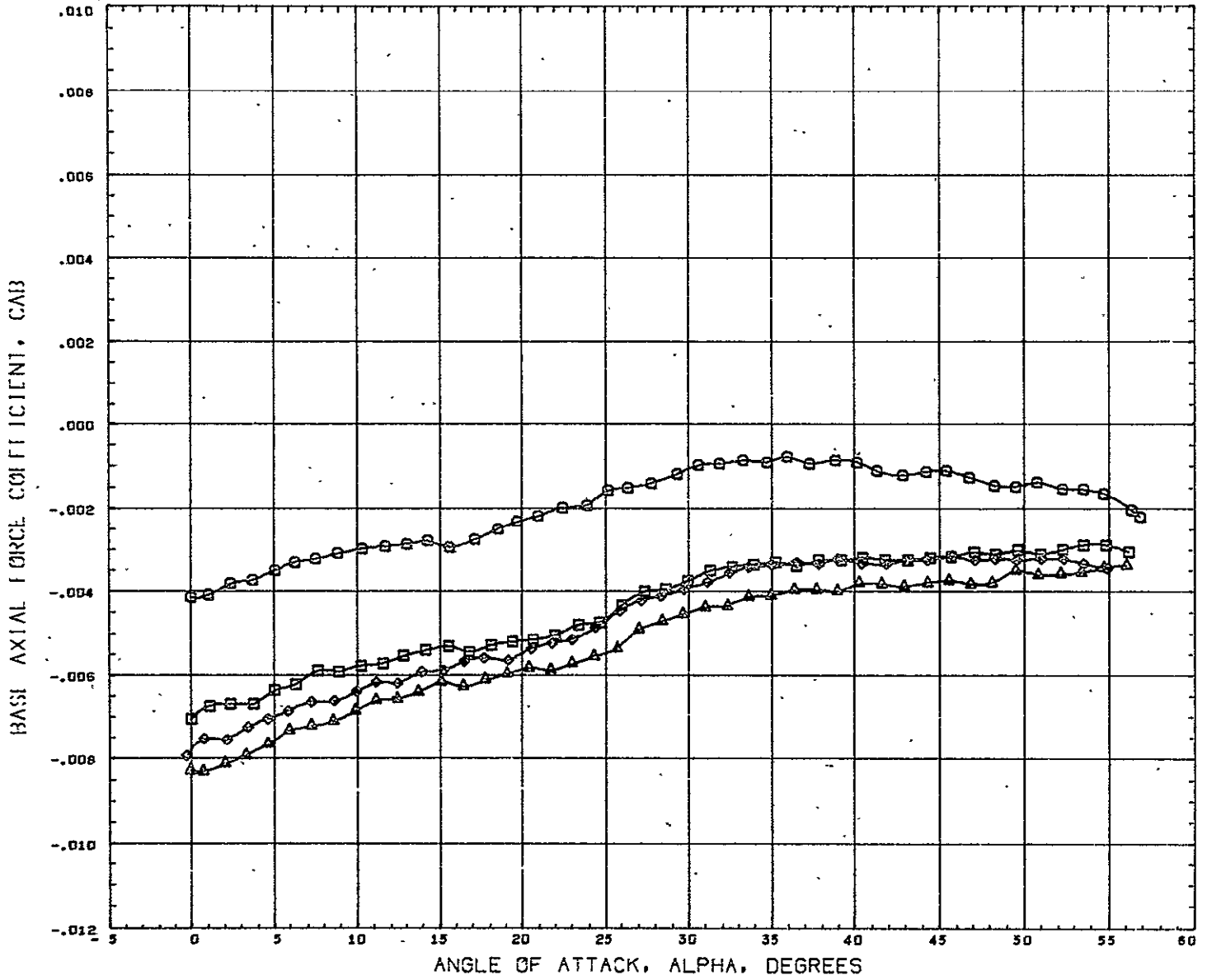
MODEL BUILDUP STRAIGHT AFT WING H-V TAIL



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9002)	GDHWT 247 B1W3T6-95V3	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9014)	GDHWT 247 B1T6-95V3	ELEVTR = 0 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W3		REFB 1.4700 IN
(RC9013)	GDHWT 247 B1		XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

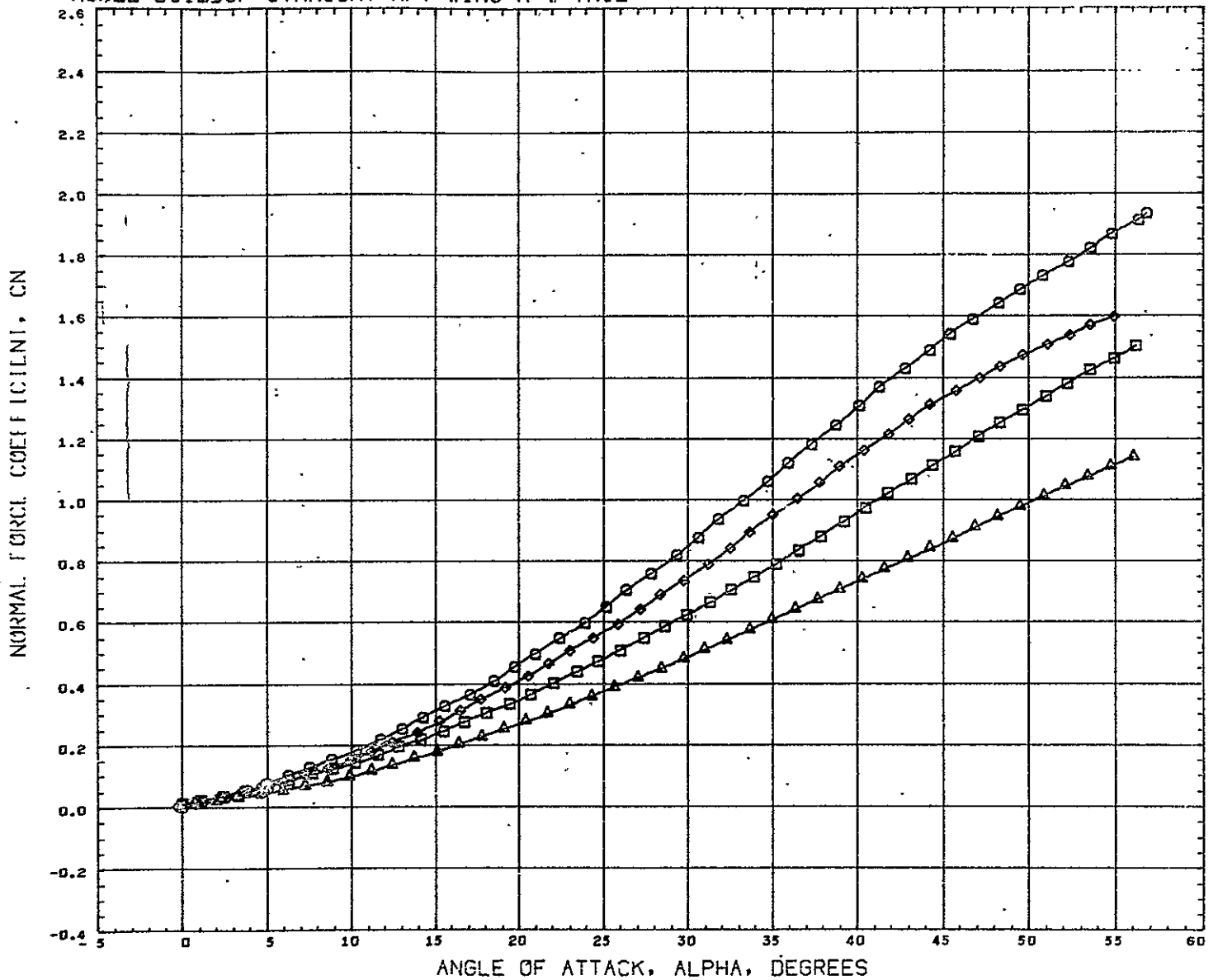
MODEL BUILDUP STRAIGHT AFT WING H-V TAIL



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9002)	GDHWT 247 B1W3T6-90V3	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9014)	GDHWT 247 B1T5-90V3	ELEVTR = 0 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W3		REFB 1.4700 IN
(RC9013)	GDHWT 247 B1		XHRF 6.2920 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 0.050

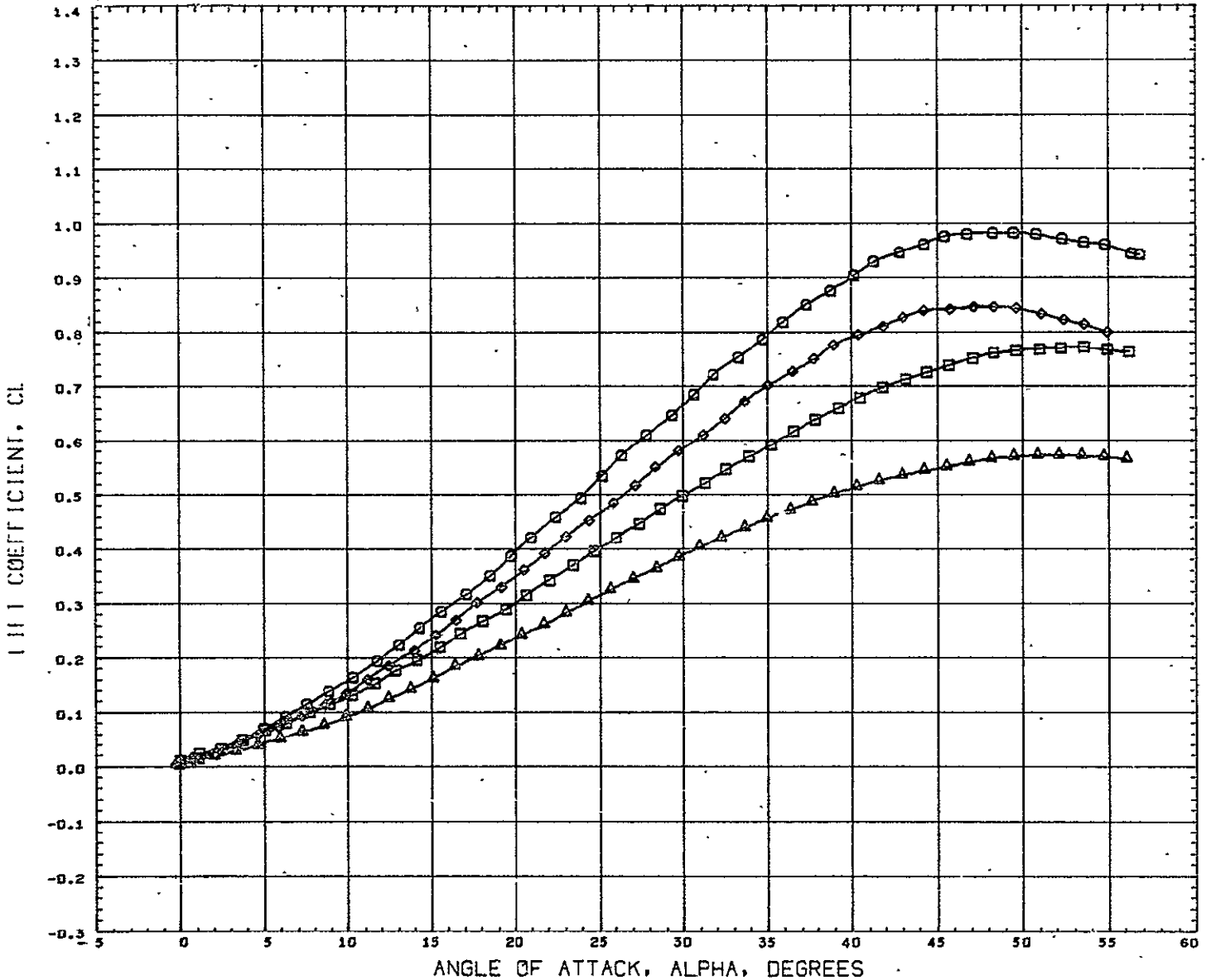
# MODEL BUILDUP STRAIGHT AFT WING H-V TAIL



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9002)	GDHWT 247 B1W3T6-9DV3	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9012)	GDHWT 247 B1T6-9DV3	ELEVTR = 0 AILRON = 0 RUDGER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W3		REFB 1.4700 IN
(RC9013)	GDHWT 247 B1		XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

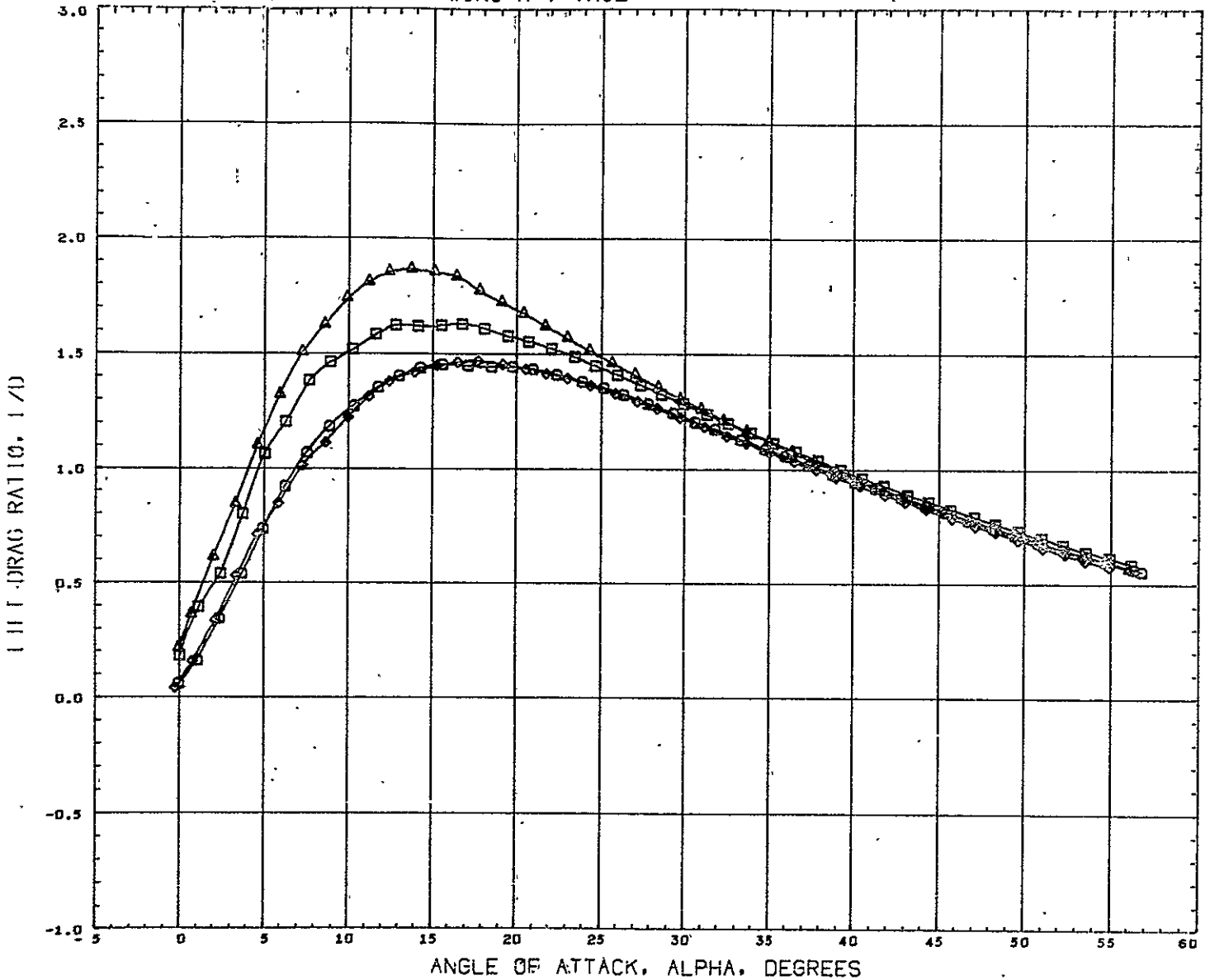
# MODEL BUILDUP STRAIGHT AFT WING H-V TAIL



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9002)	GDHWT 247 B1W3T6-90V3	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9014)	GDHWT 247 B1T6-90V3	ELEVTR = 0 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W3		REFB 1.4700 IN
(RC9013)	GDHWT 247 B1		XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

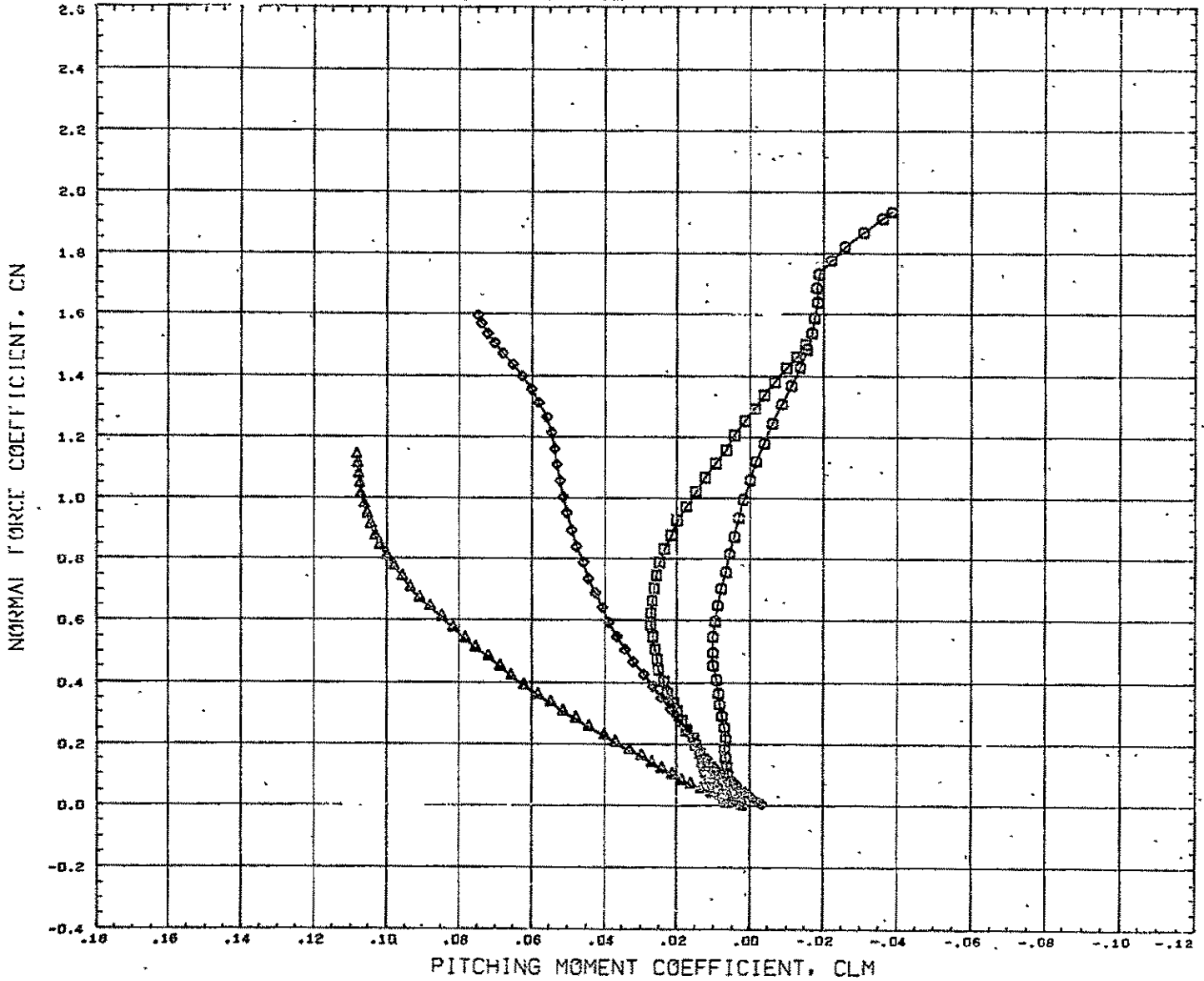
MODEL BUILDUP: STRAIGHT AFT WING H-V TAIL



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9002)	GDHWT 247 B1W3T6-9BV3	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9014)	GDHWT 247 B1T6-9BV3	ELEVTR = 0 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W3		REFB 1.4700 IN
(RC9013)	GDHWT 247 B1		XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

MODEL BUILDUP STRAIGHT AFT WING H-V TAIL

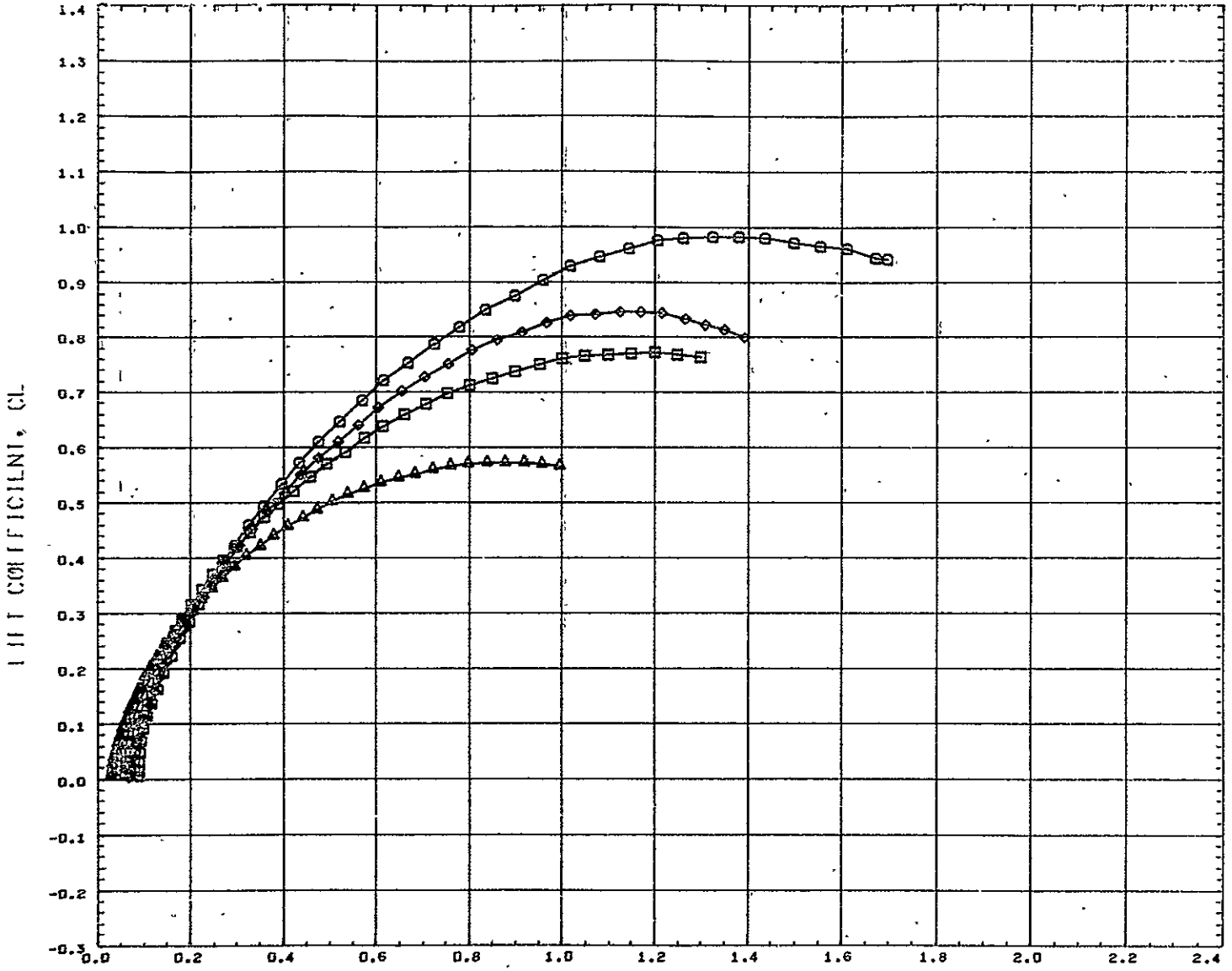


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9002)	GDHWT 247 B1W3T6-90V3	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9014)	GDHWT 247 B1T6-90V3	ELEVTR = 0 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W3		REFS 1.4700 IN
(RC9013)	GDHWT 247 B1		XHRF 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050



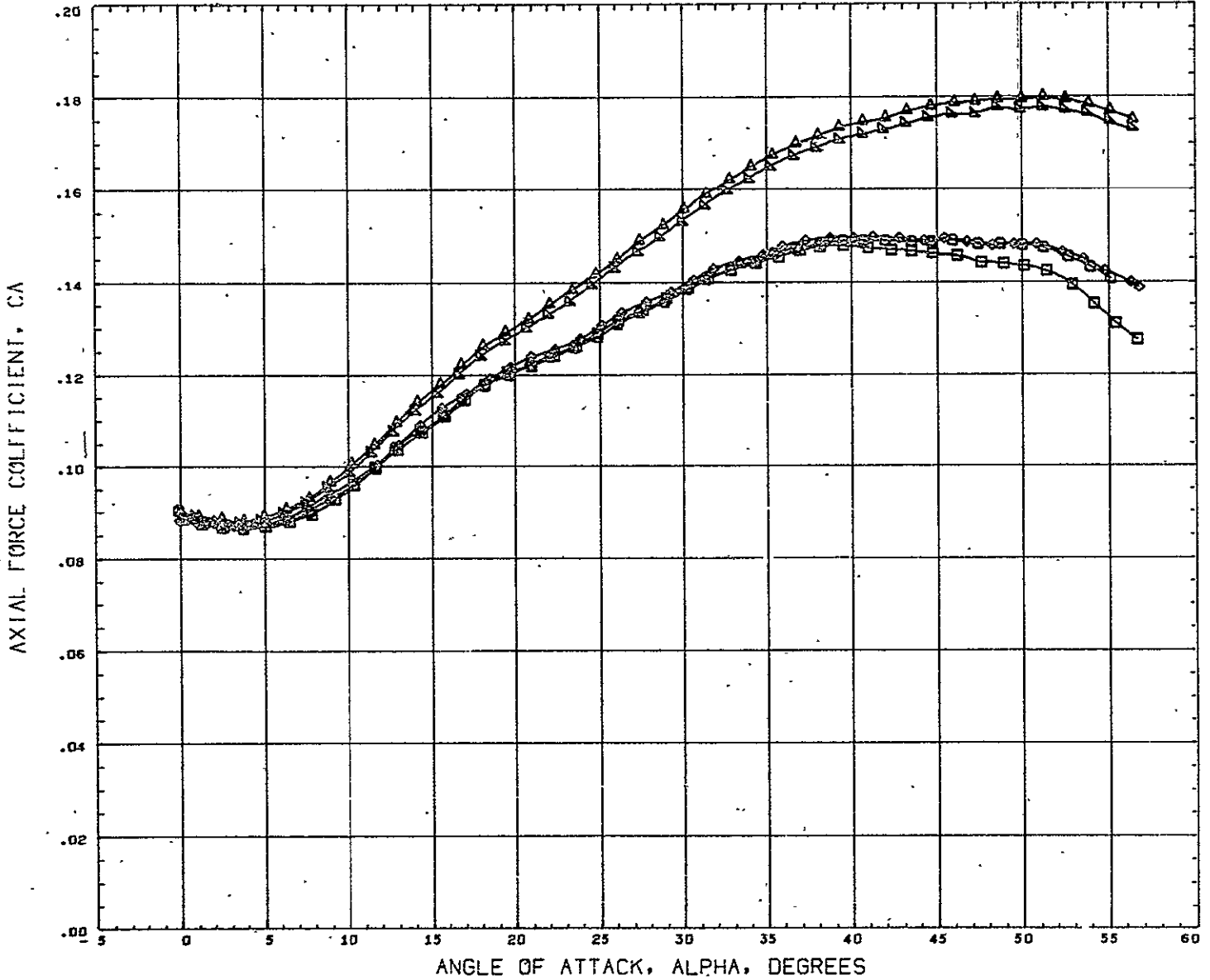
MODEL BUILDUP STRAIGHT-AFT WING H-V TAIL



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9002)	GDHWT 247 B1W3T6-9DV3	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9014)	GDHWT 247 B1T6-9DV3	ELEVTR = 0 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W3		REFB 1.4700 IN
(RC9013)	GDHWT 247 B1		XMRP 6.2920 IN
			YMRF 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

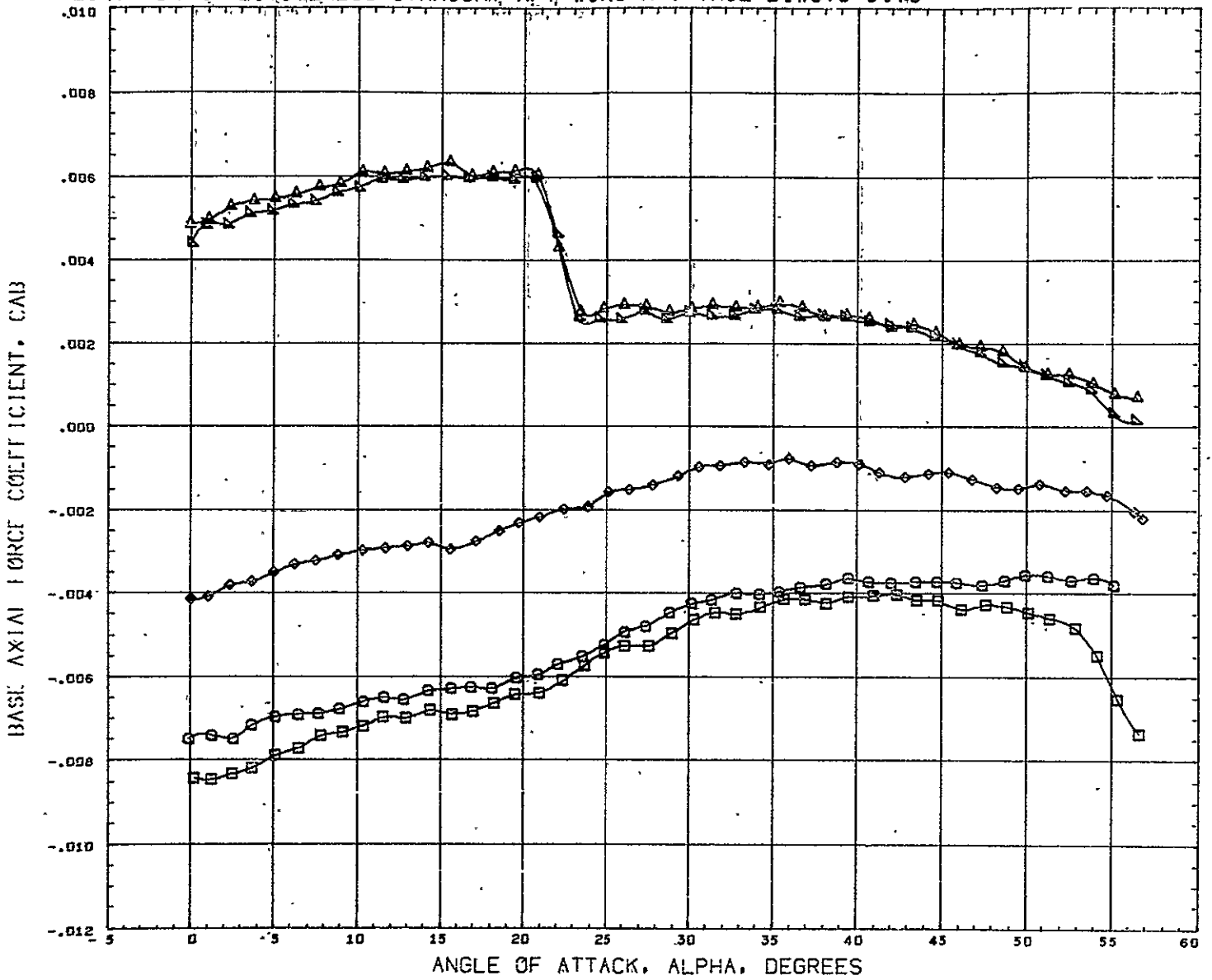
# ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL B1W3T6-90V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9004)	GDHWT 247 B1W3T6-90V3 ELEVTR = -40 AILRON = 0	BETA 0.000 ELEVTR - 40.000	REFS 12.6740 IN2
(RC9003)	GDHWT 247 B1W3T6-90V3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9002)	GDHWT 247 B1W3T6-90V3 ELEVTR = 0 AILRON = 0		REFB 1.4700 IN
(RC9040)	GDHWT 247 B1W3T6-90V3 ELEVTR = 20 AILRON = 0		XMRP 6.2920 IN
(RC9034)	GDHWT 247 B1W3T6-90V3 ELEVTR = 20 AILRON = 0		YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.950

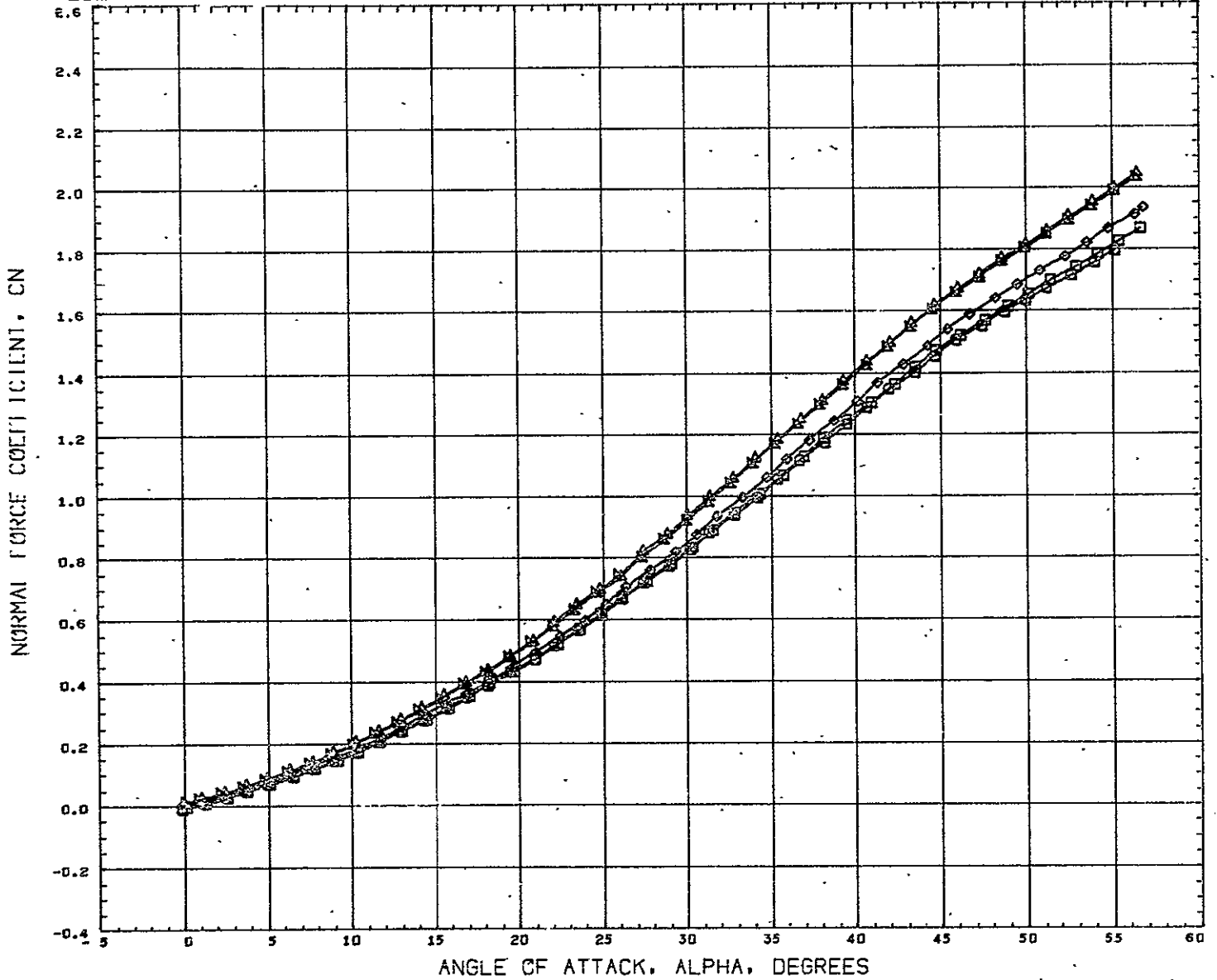
# ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL B1W3T6-90V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9004)	GDHWT 247 B1W3T6-90V3 ELEVTR = -40 AILRON = 0	BETA 0.000 ELEVTR - 40.000	REFS 12.6740 IN <sup>2</sup>
(RC9003)	GDHWT 247 B1W3T6-90V3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9002)	GDHWT 247 B1W3T6-90V3 ELEVTR = 0 AILRON = 0		REFB 1.4700 IN
(RC9040)	GDHWT 247 B1W3T6-90V3 ELEVTR = 20 AILRON = 0		XMRP 6.2920 IN
(RC9034)	GDHWT 247 B1W3T6-90V3 ELEVTR = 20 AILRON = 0		YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

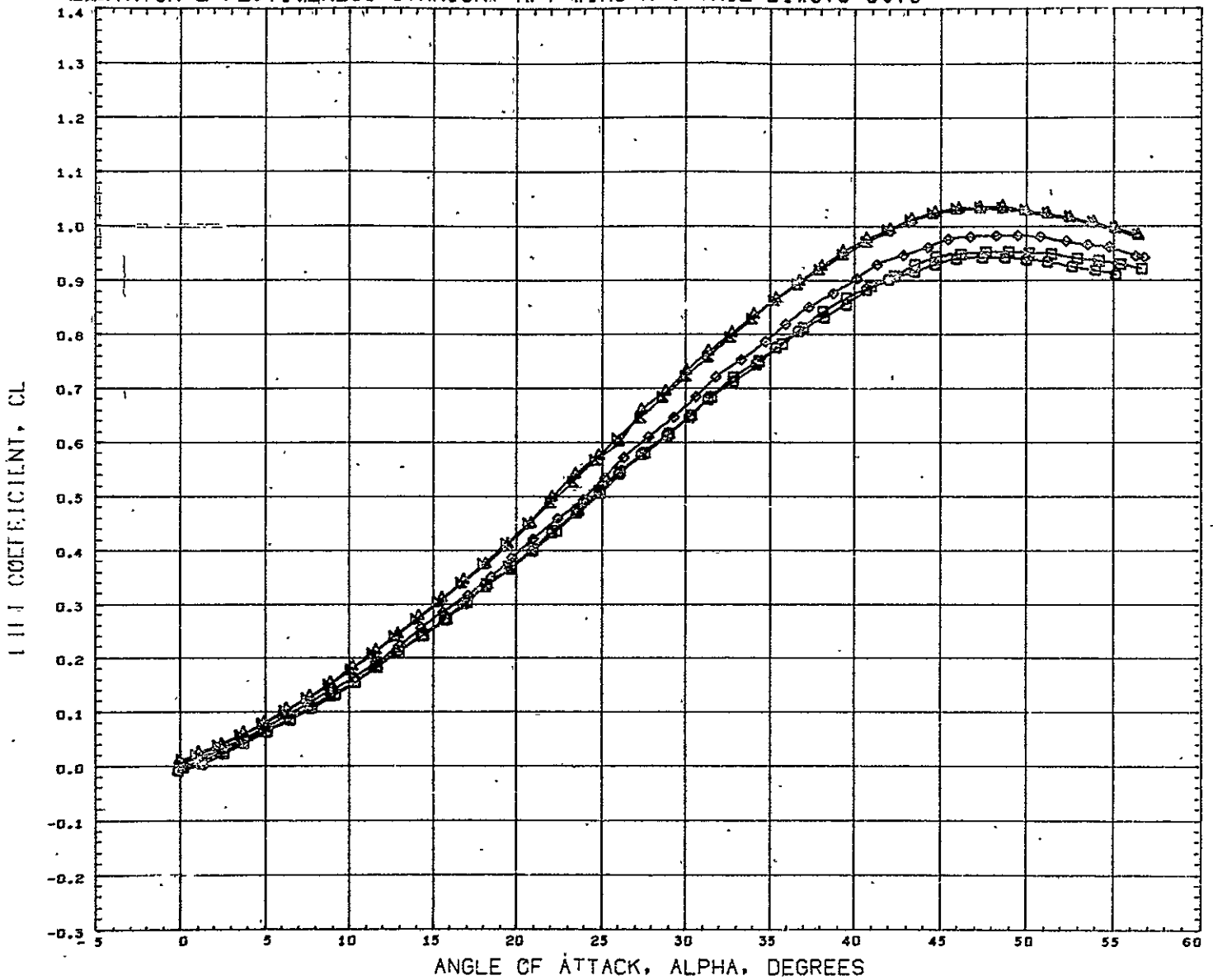
# ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL B1W3T6-90V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9004)	GDHWT 247 B1W3T6-90V3 ELEVTR = -40 AILRON = 0	BETA 0.000 ELEVTR - 40.000	REFS 12.6740 IN2
(RC9003)	GDHWT 247 B1W3T6-90V3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9002)	GDHWT 247 B1W3T6-90V3 ELEVTR = 0 AILRON = 0		REFB 1.4700 IN
(RC9040)	GDHWT 247 B1W3T6-90V3 ELEVTR = 20 AILRON = 0		XMRP 6.2920 IN
(RC9034)	GDHWT 247 B1W3T6-90V3 ELEVTR = 20 AILRON = 0		YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

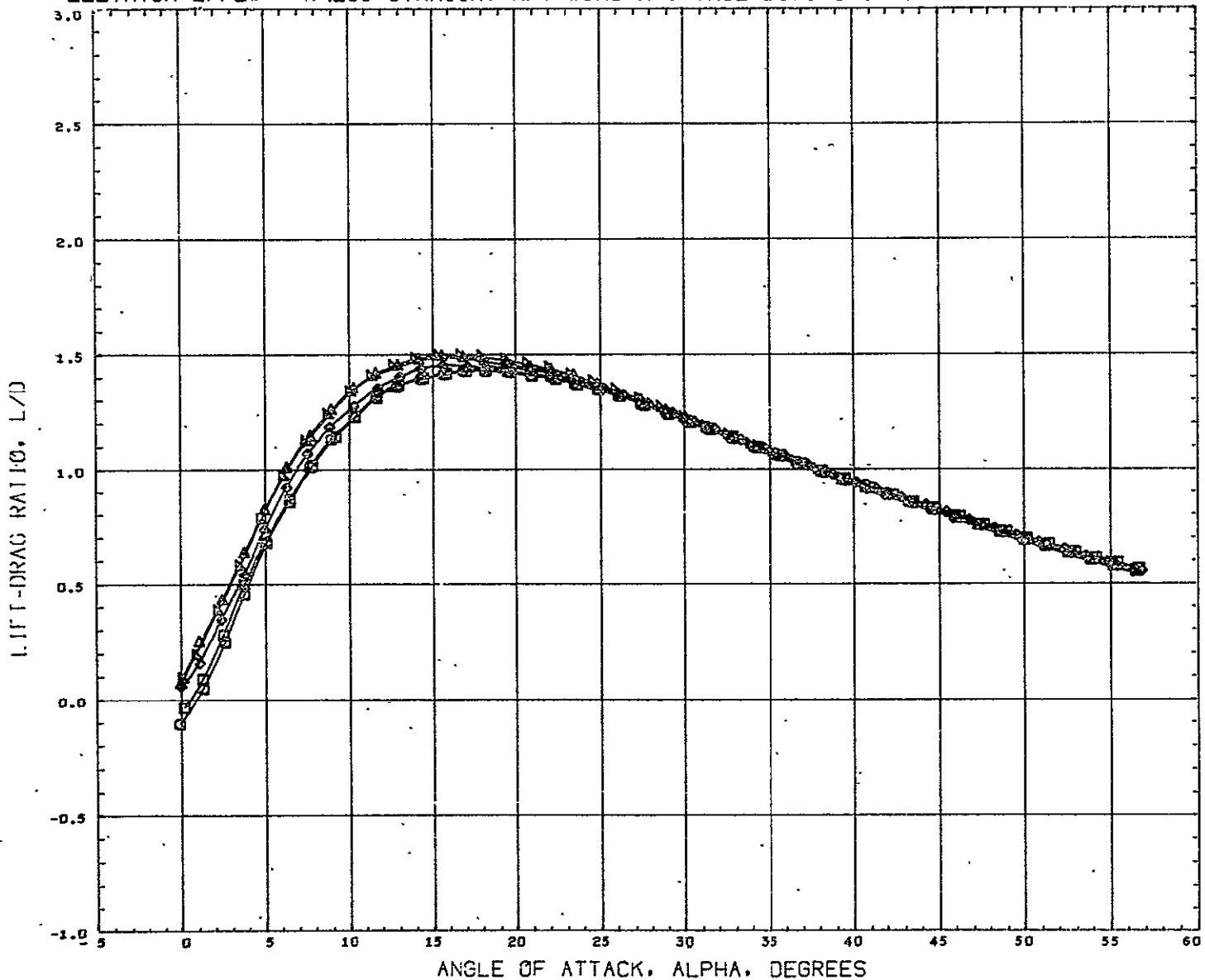
ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL BIW3T6-90V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9004)	GDHWT 247 BIW3T6-90V3	ELEVTR = -40 AILRON = 0 BETA 0.000 ELEVTR = 40.000	REFS 12.6740 IN2
(RC9003)	GDHWT 247 BIW3T6-90V3	ELEVTR = -20 AILRON = 0 RUDDCR 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9002)	GDHWT 247 BIW3T6-90V3	ELEVTR = 0 AILRON = 0	REFB 1.4700 IN
(RC9040)	GDHWT 247 BIW3T6-90V3	ELEVTR = 20 AILRON = 0	XMRP 6.2920 IN
(RC9034)	GDHWT 247 BIW3T6-90V3	ELEVTR = 20 AILRON = 0	YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

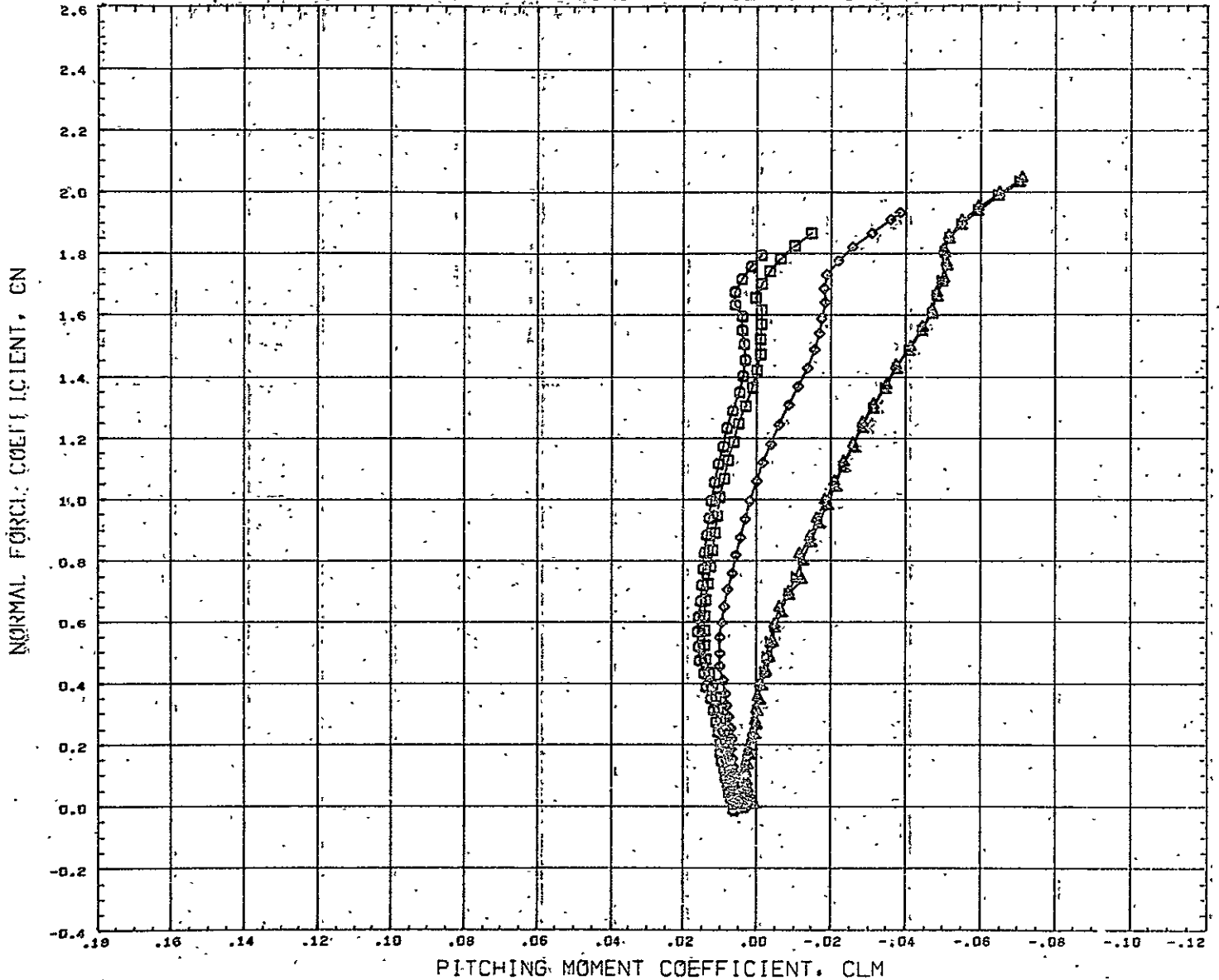
# ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL BIW3T6-90V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9004)	GDHWT 247 BIW3T6-90V3	ELEVTR = -40 AILRON = 0 BETA 0.000 ELEVTR = 40.000	REFS 12.6740 IN2
(RC9003)	GDHWT 247 BIW3T6-90V3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9002)	GDHWT 247 BIW3T6-90V3	ELEVTR = 0 AILRON = 0	REFB 1.4700 IN
(RC9040)	GDHWT 247 BIW3T6-90V3	ELEVTR = 20 AILRON = 0	XMRP 6.2920 IN
(RC9034)	GDHWT 247 BIW3T6-90V3	ELEVTR = 20 AILRON = 0	YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

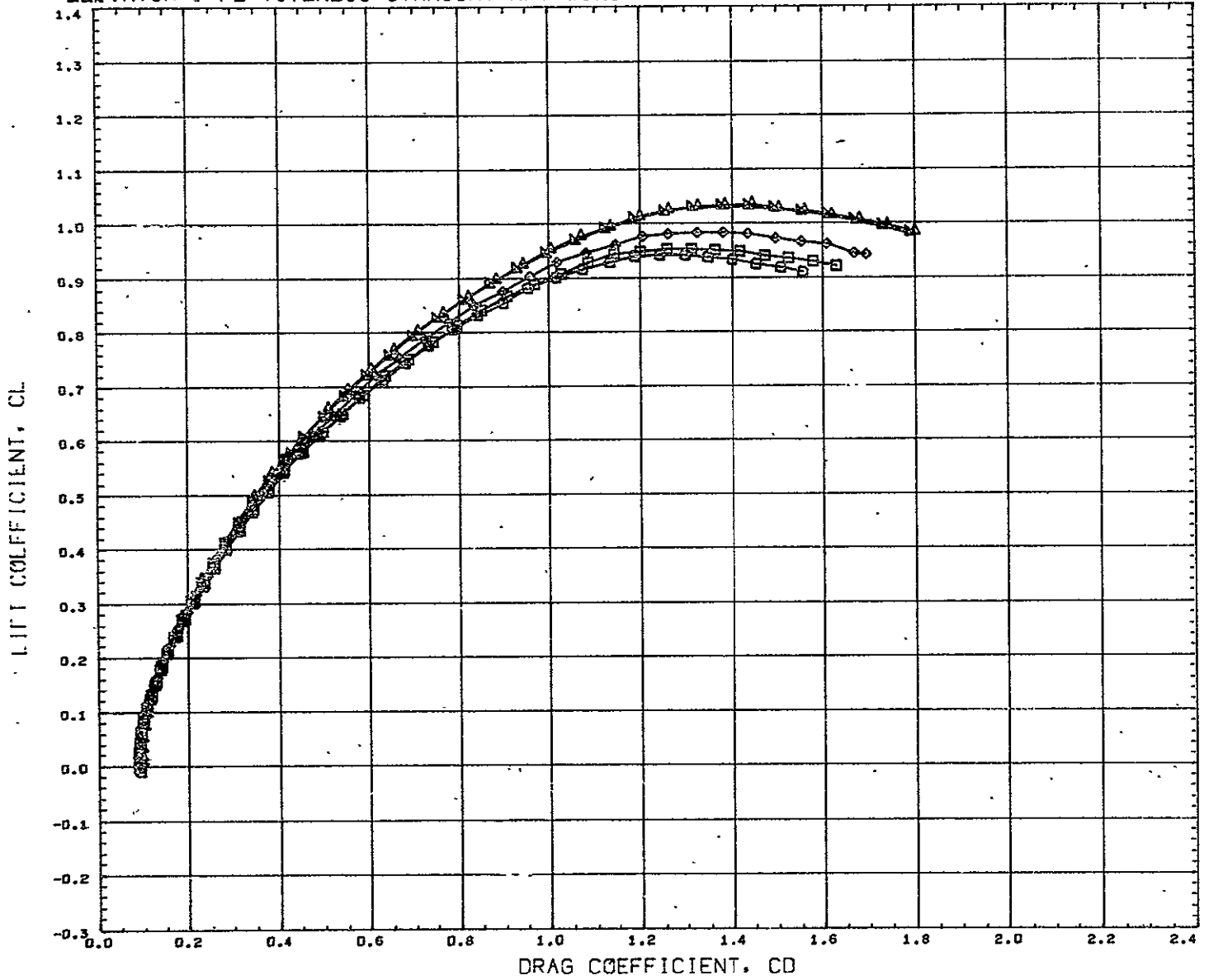
# ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL B1W3T6-90V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9004)	GDHWT 247 B1W3T6-90V3	ELEVTR = -40 AILRON = 0 BETA 0.000 ELEVTR = 40.000	REFS 12.6740 IN2
(RC9003)	GDHWT 247 B1W3T6-90V3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9002)	GDHWT 247 B1W3T6-90V3	ELEVTR = 0 AILRON = 0	REFB 1.4700 IN
(RC9040)	GDHWT 247 B1W3T6-90V3	ELEVTR = 20 AILRON = 0	XMRP 6.2920 IN
(RC9034)	GDHWT 247 B1W3T6-90V3	ELEVTR = 20 AILRON = 0	YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

# ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL B1W3T6-90V3

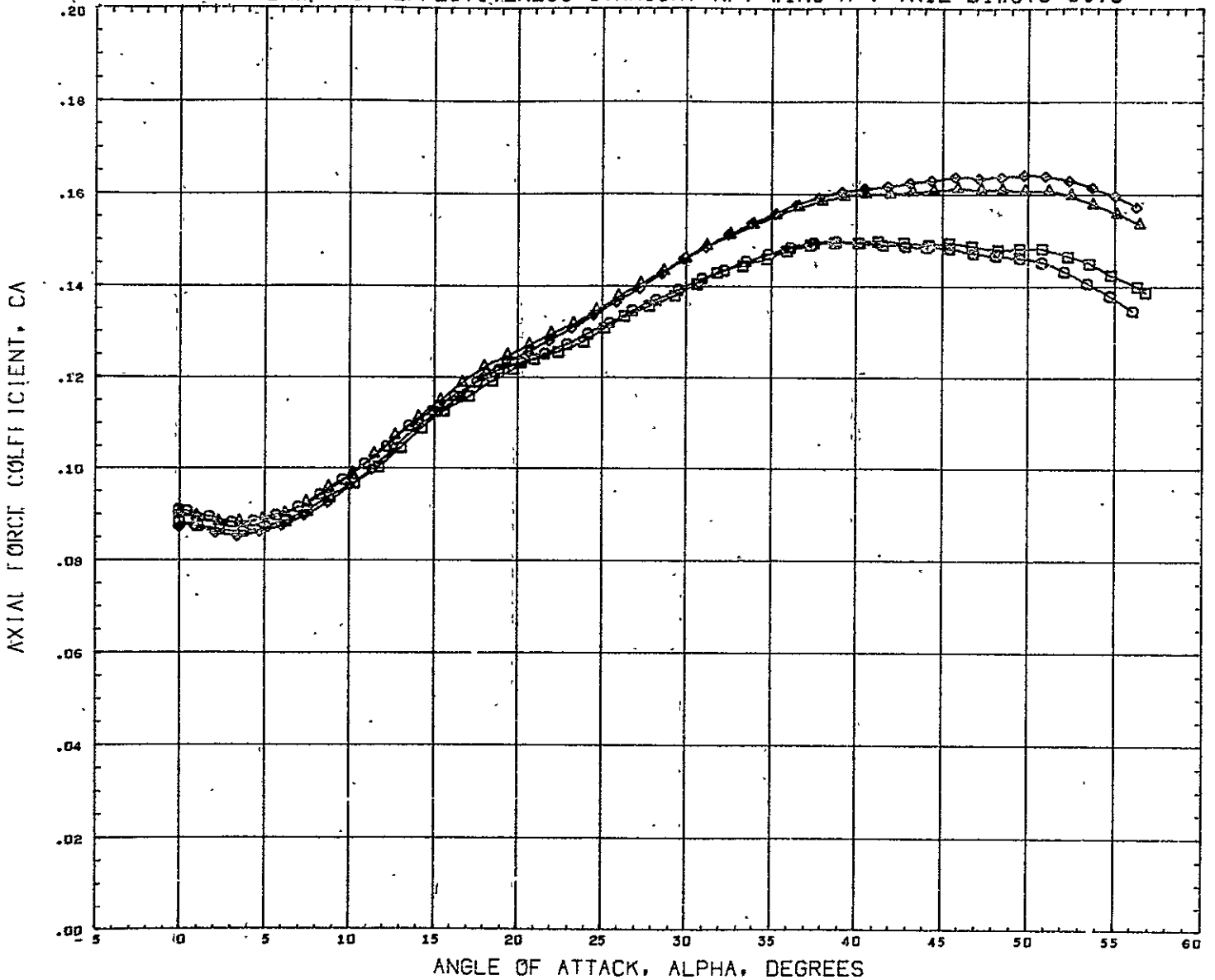


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9004)	GDHWT 247 B1W3T6-90V3 ELEVTR = -40 AILRON = 0	BETA 0.000 ELEVTR = 40.000	REFS 12.6740 IN2
(RC9003)	GDHWT 247 B1W3T6-90V3 ELEVTR = -20 AILRON = 0	RUCDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9002)	GDHWT 247 B1W3T6-90V3 ELEVTR = 0 AILRON = 0		REFB 1.4700 IN
(RC9040)	GDHWT 247 B1W3T6-90V3 ELEVTR = 20 AILRON = 0		XNRF 6.2920 IN
(RC9034)	GDHWT 247 B1W3T6-90V3 ELEVTR = 20 AILRON = 0		YHRF 0.0000 IN
			ZNRF 0.0000 IN
			SCALE 0.0035

MACH 8.050



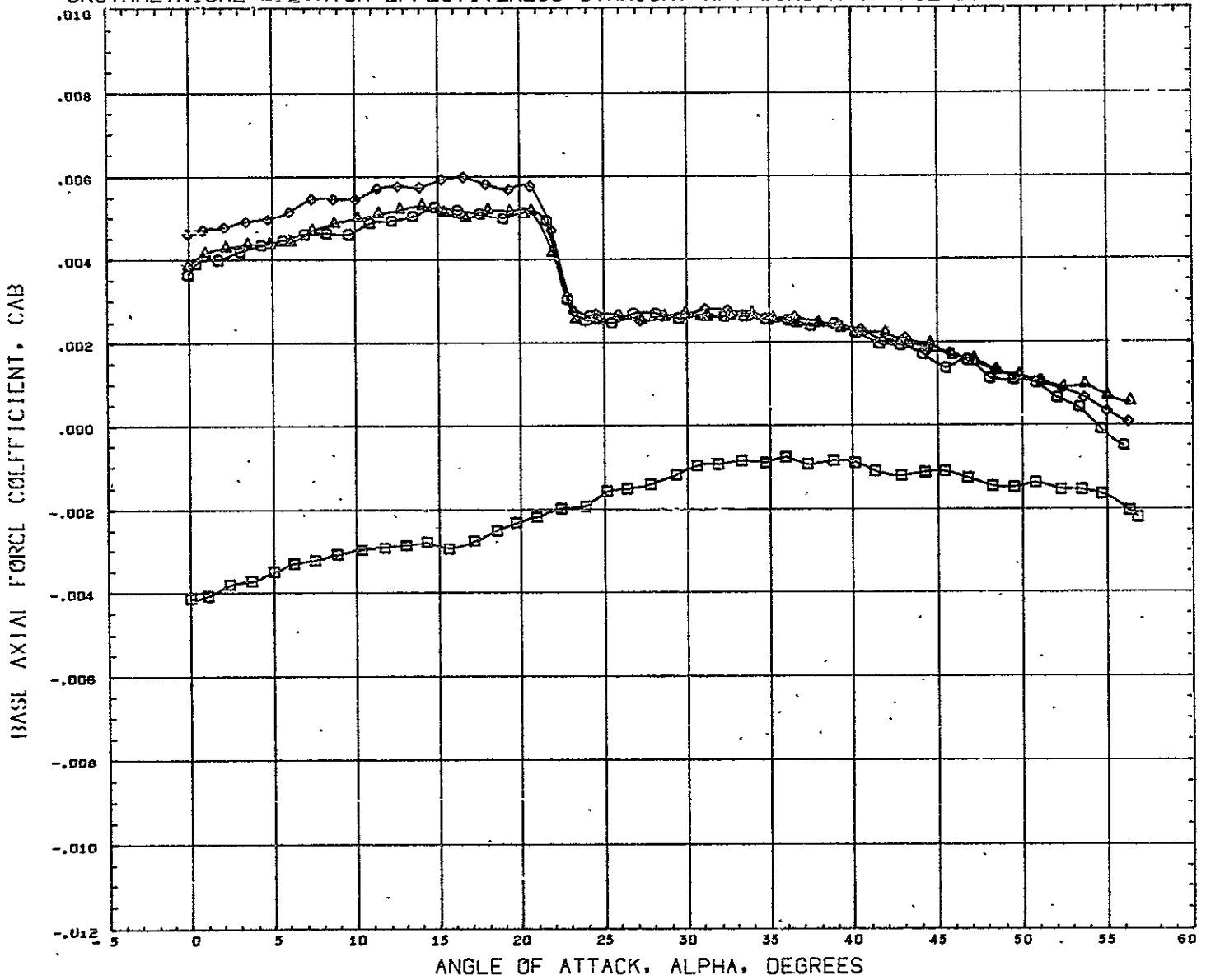
UNSYMMETRICAL ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL B1W3T6-90V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9033)	GDHWT 247 B1W3T6-90V3 ELEVTR = -10 AILRON = 10	BETA 0.000 ELEVTR - 10.000	REFS 12.6740 IN2
(RC9002)	GDHWT 247 B1W3T6-90V3 ELEVTR = 0 AILRON = 0	RHDDER 0.000 AILRON 10.000	REFL 10.0380 IN
(RC9039)	GDHWT 247 B1W3T6-90V3 ELEVTR = 10 AILRON = 10		REFB 1.4700 IN
(RC9041)	GDHWT 247 B1W3T6-90V3 ELEVTR = 10 AILRON = -10		XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 0.050

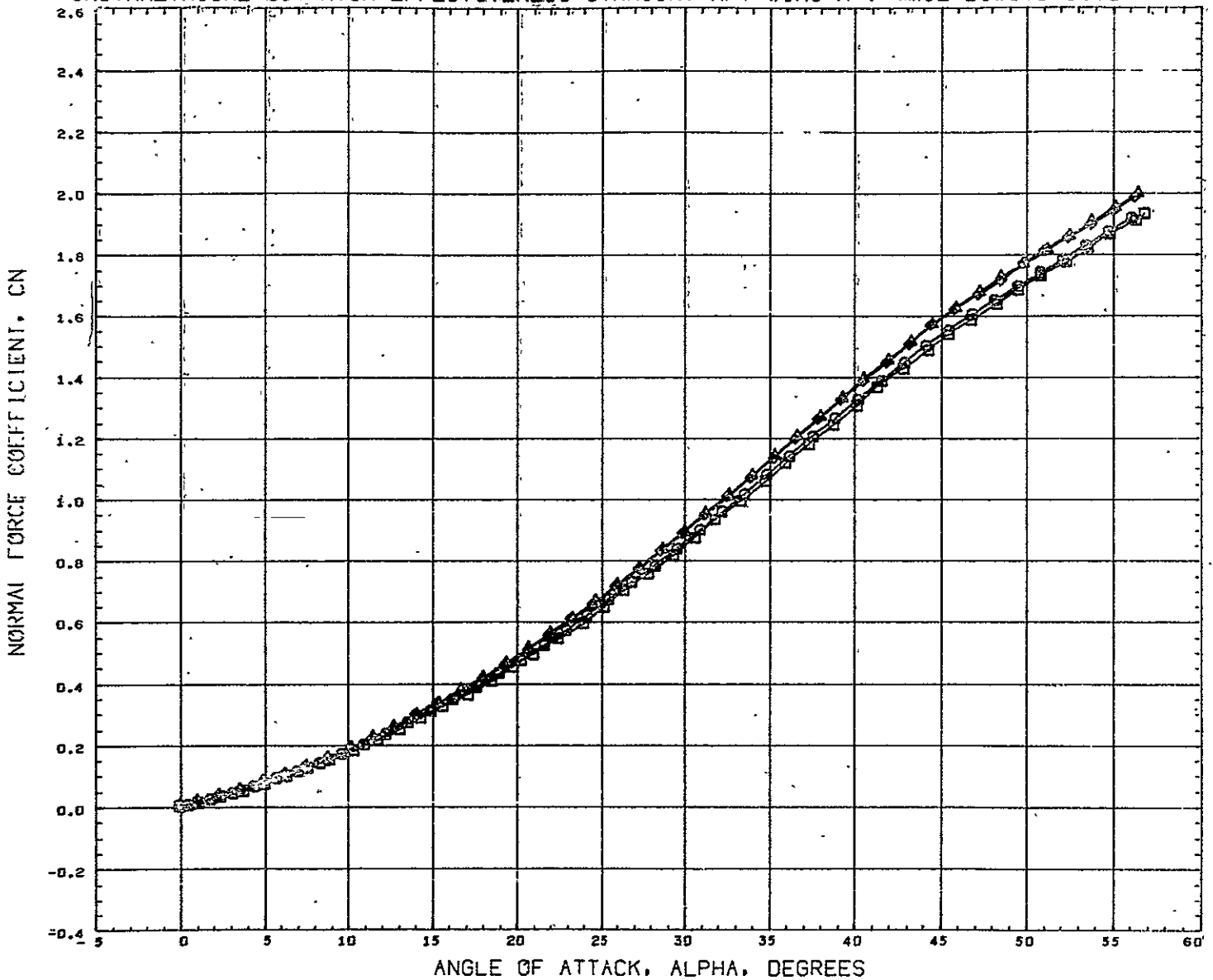
# UNSYMMETRICAL ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL B1W3T6-90V3



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES		REFERENCE INFORMATION				
(RC9033)	□	GDHWT 247 B1W3T6-90V3 ELEVTR = -10 AILRON = 10	BETA	0.000	ELEVTR	- 10.000	REFS	12.6740	IN2
(RC9002)	□	GDHWT 247 B1W3T6-90V3 ELEVTR = 0 AILRON = 0	RUDDER	0.000	AILRON	10.000	REFL	10.0380	IN
(RC9039)	◇	GDHWT 247 B1W3T6-90V3 ELEVTR = 10 AILRON = 10					REFB	1.4700	IN
(RC9041)	△	GDHWT 247 B1W3T6-90V3 ELEVTR = 10 AILRON = -10					XMRP	6.2920	IN
							YMRP	0.0000	IN
							ZMRP	0.0000	IN
							SCALE	0.0035	

MACH 8.050

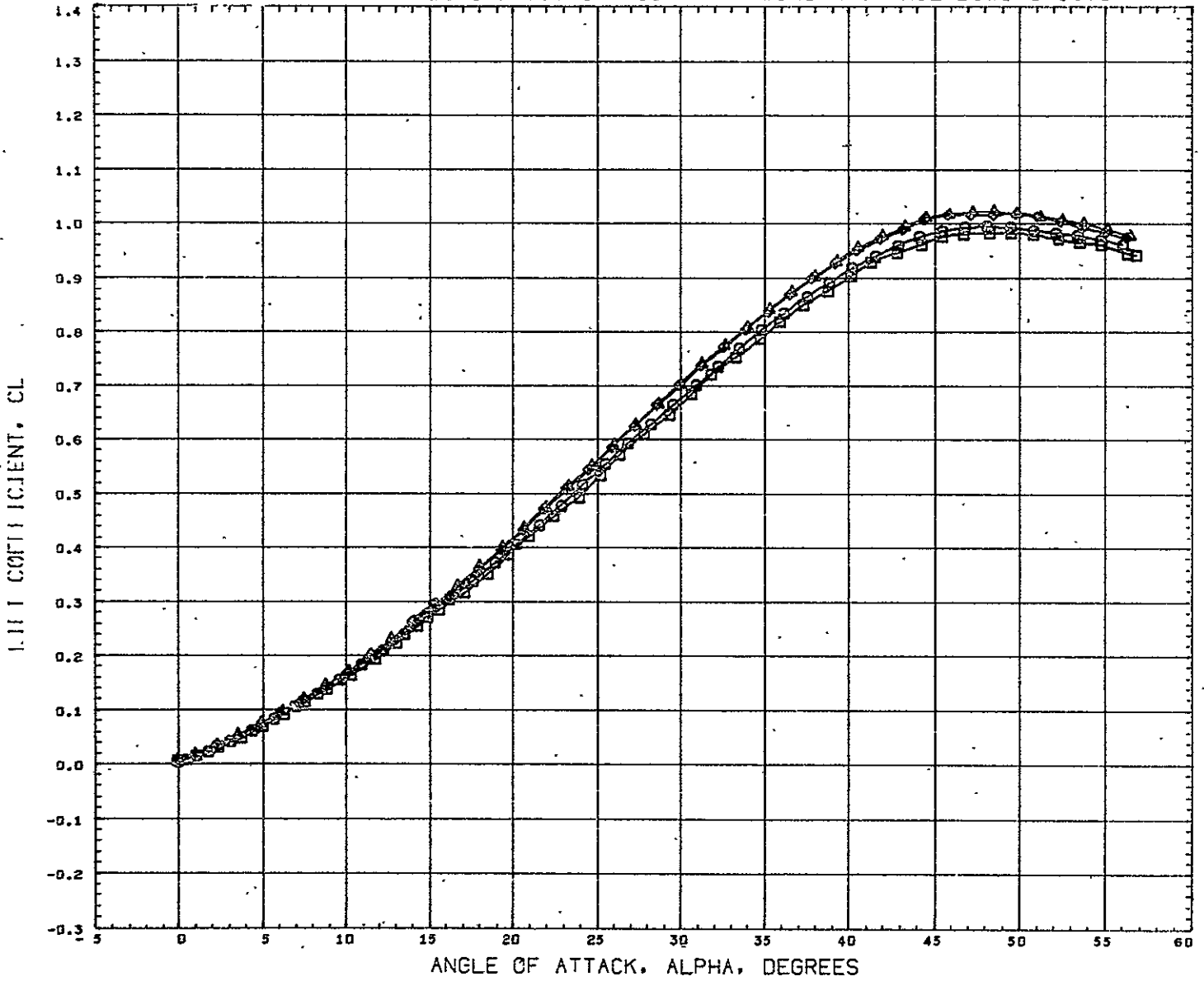
# UNSYMMETRICAL ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL B1W3T6-90V3



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9033)	□	GDHWT 247 B1W3T6-90V3 ELEVTR = -10 AILRON = 10	BETA 0.000 ELEVTR - 10.000	REFS 12.6740 IN2
(RC9002)	□	GDHWT 247 B1W3T6-90V3 ELEVTR = 0 AILRON = 0	RUDDER 0.000 AILRON 10.000	REFL 10.0380 IN
(RC9039)	◇	GDHWT 247 B1W3T6-90V3 ELEVTR = 10 AILRON = 10		REFB 1.4700 IN
(RC9041)	△	GDHWT 247 B1W3T6-90V3 ELEVTR = 10 AILRON = -10		XMRP 6.2920 IN
				YMRP 0.0000 IN
				ZMRP 0.0000 IN
				SCALE 0.0035

MACH 8.050

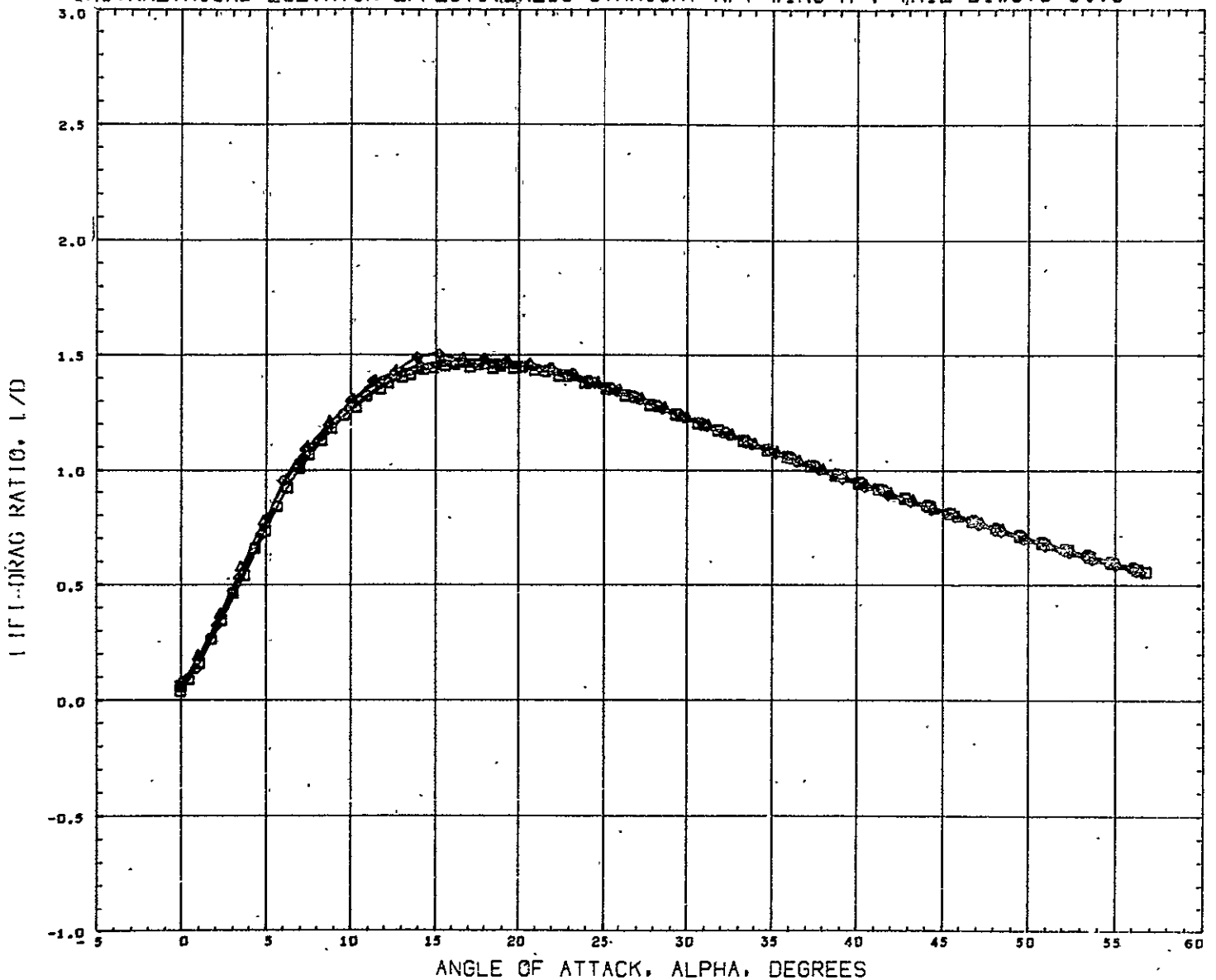
UNSYMMETRICAL ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL B1W3T6-90V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9033)	GDHWT 247 B1W3T6-90V3 ELEVTR = -10 AILRON = 10	BETA 0.000 ELEVTR - 10.000	REFS 12.6740 IN <sup>2</sup>
(RC9002)	GDHWT 247 B1W3T6-90V3 ELEVTR = 0 AILRON = 0	RUDDER 0.000 AILRON 10.000	REFL 10.0380 IN
(RC9039)	GDHWT 247 B1W3T6-90V3 ELEVTR = 10 AILRON = 10		REFB 1.4700 IN
(RC9041)	GDHWT 247 B1W3T6-90V3 ELEVTR = 10 AILRON = -10		XHRF 6.2920 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 8.050

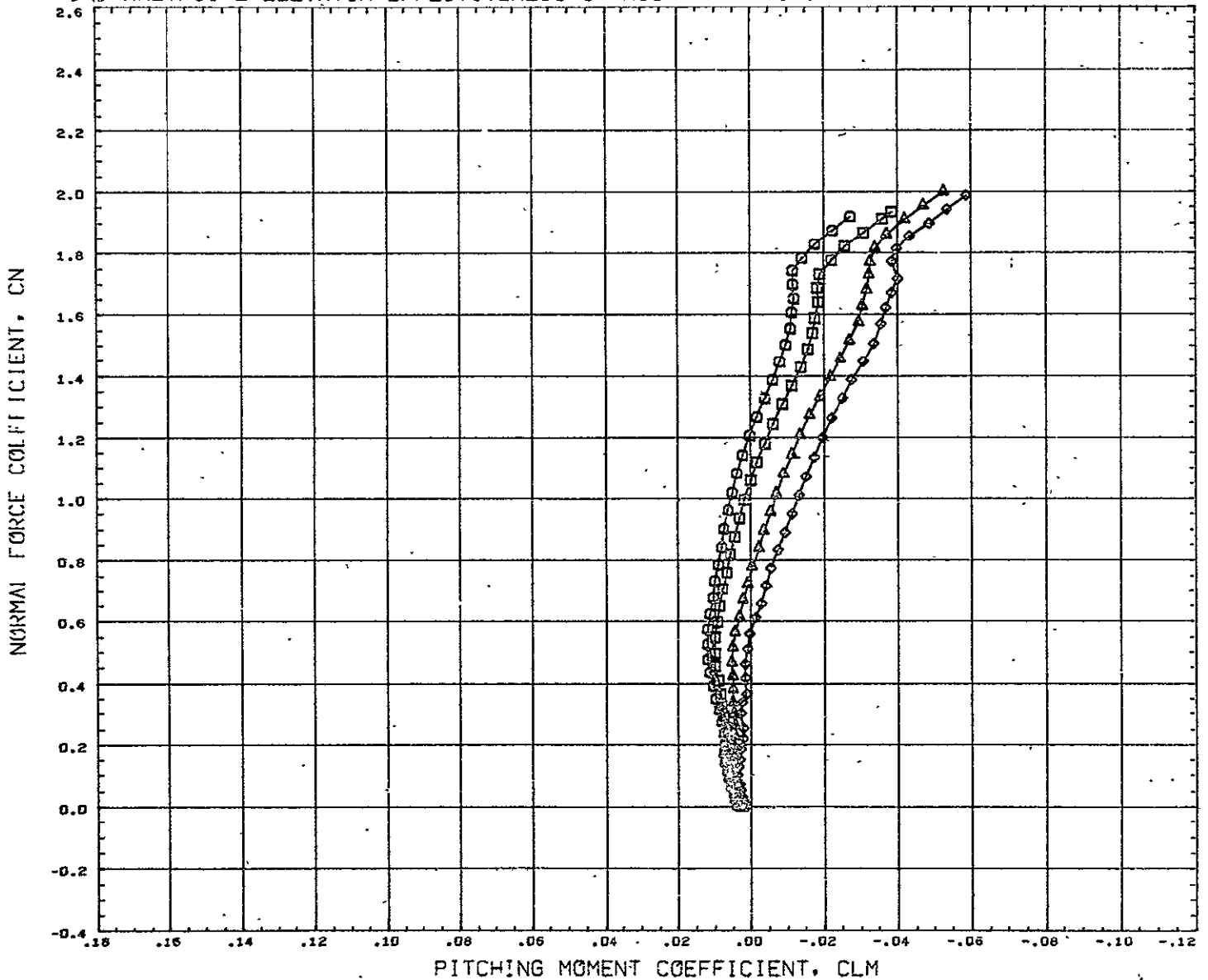
UNSYMMETRICAL ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL B1W3T6-90V3



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9033)	○	GDHWT 247 B1W3T6-90V3	ELEVTR = -10 AILRON = 10	BEIN 0.000 ELEVTR - 10.000 REFS 12.6740 IN2
(RC9002)	□	GDHWT 247 B1W3T6-90V3	ELEVTR = 0 AILRON = 0	RIDDER 0.000 AILRON 10.000 REFL 10.0380 IN
(RC9039)	◇	GDHWT 247 B1W3T6-90V3	ELEVTR = 10 AILRON = 10	REFB 1.4700 IN
(RC9041)	△	GDHWT 247 B1W3T6-90V3	ELEVTR = 10 AILRON = -10	XMRP 6.2920 IN
				YMRP 0.0000 IN
				ZMRP 0.0000 IN
				SCALE 0.0035

MACH 8.050

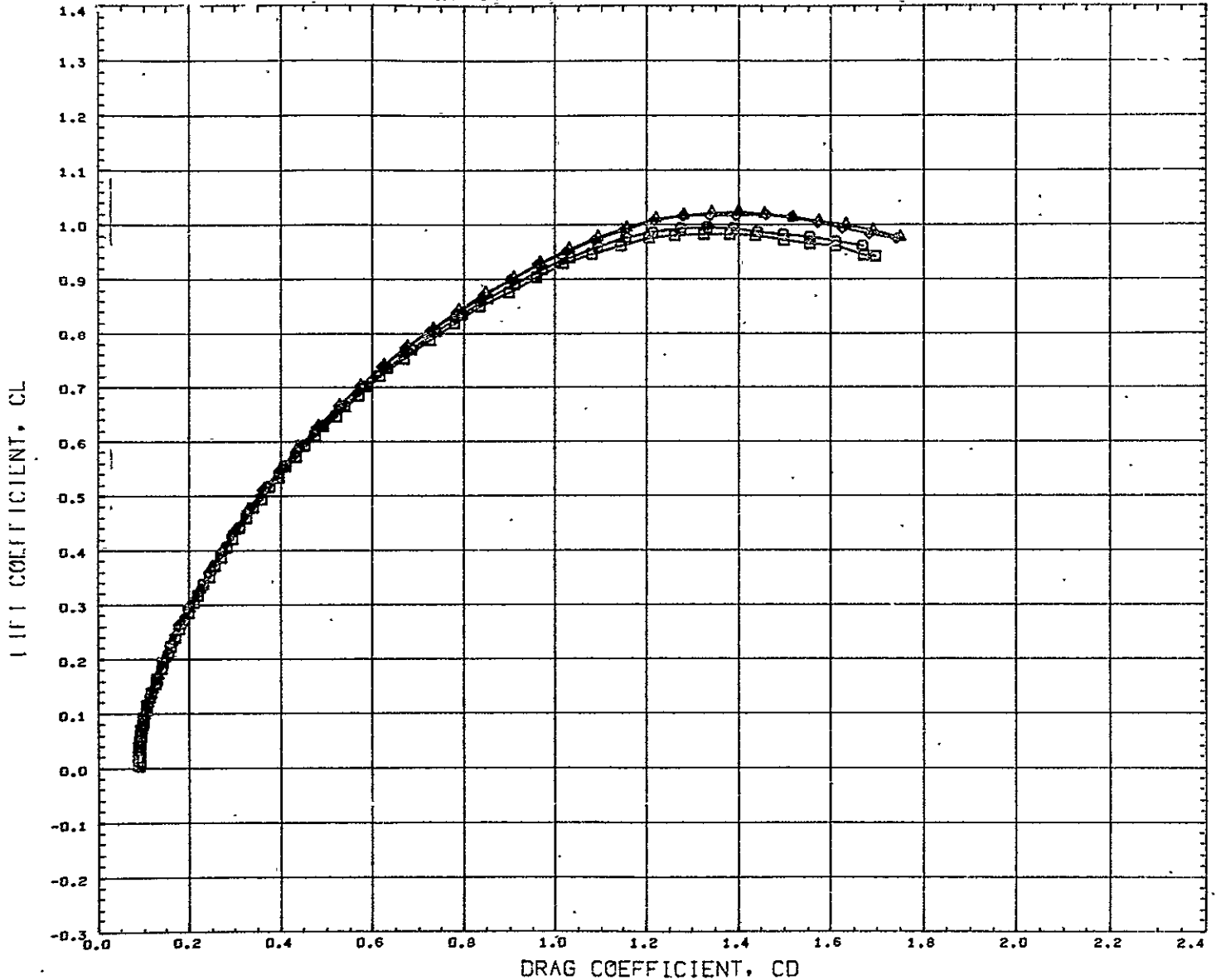
UNSYMMETRICAL ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL B1W3T6-90V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9033)	GDHWT 247 B1W3T6-90V3 ELEVTR = -10 AILRON = 10	BETA 0.000 ELEVTR - 10.000	REFS 12.6740 IN2
(RC9032)	GDHWT 247 B1W3T6-23V3 ELEVTR = 0 AILRON = 0	RUGDER 0.000 AILRON 10.000	REFL 10.0380 IN
(RC9039)	GDHWT 247 B1W3T6-90V3 ELEVTR = 10 AILRON = 10		REFB 1.4700 IN
(RC9041)	GDHWT 247 B1W3T6-90V3 ELEVTR = 10 AILRON = -10		XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

RACH 0.050

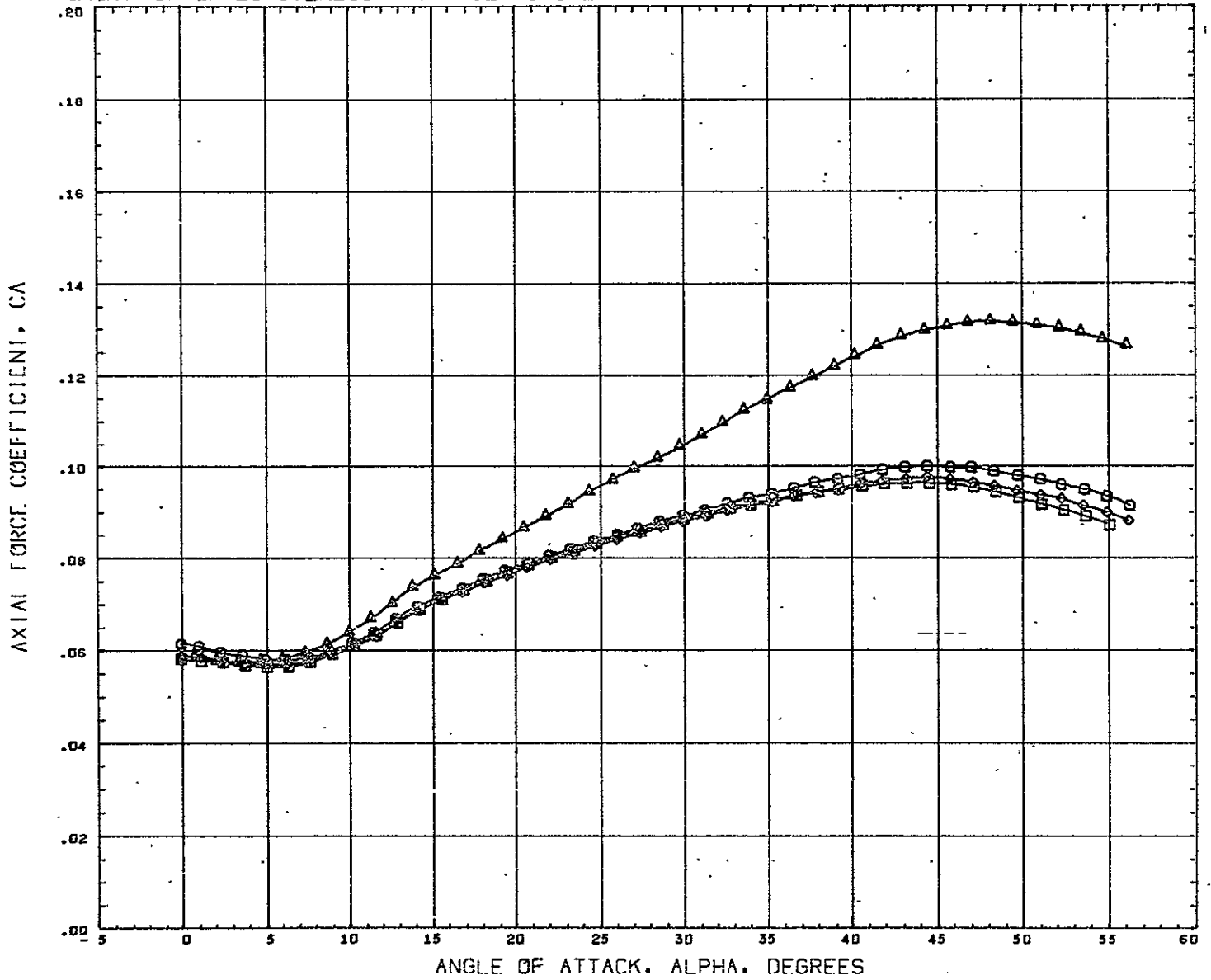
UNSYMMETRICAL ELEVATOR EFFECTIVENESS STRAIGHT AFT WING H-V TAIL B1W3T6-90V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9033)	GDHWT 247 B1W3T6-90V3 ELEVTR = -10 AILRON = 10	BETA 0.000 ELEVTR - 10.000	REFS 12.6740 IN2
(RC9002)	GDHWT 247 B1W3T6-90V3 ELEVTR = 0 AILRON = 0	RUDDER 0.000 AILRON 10.000	REFL 10.0380 IN
(RC9039)	GDHWT 247 B1W3T6-90V3 ELEVTR = 15 AILRON = 15		REFB 1.4700 IN
(RC9041)	GDHWT 247 B1W3T6-90V3 ELEVTR = 10 AILRON = -10		XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

# ELEVATOR EFFECTIVENESS H-V TAIL, STOWED WING B1T6-90V3

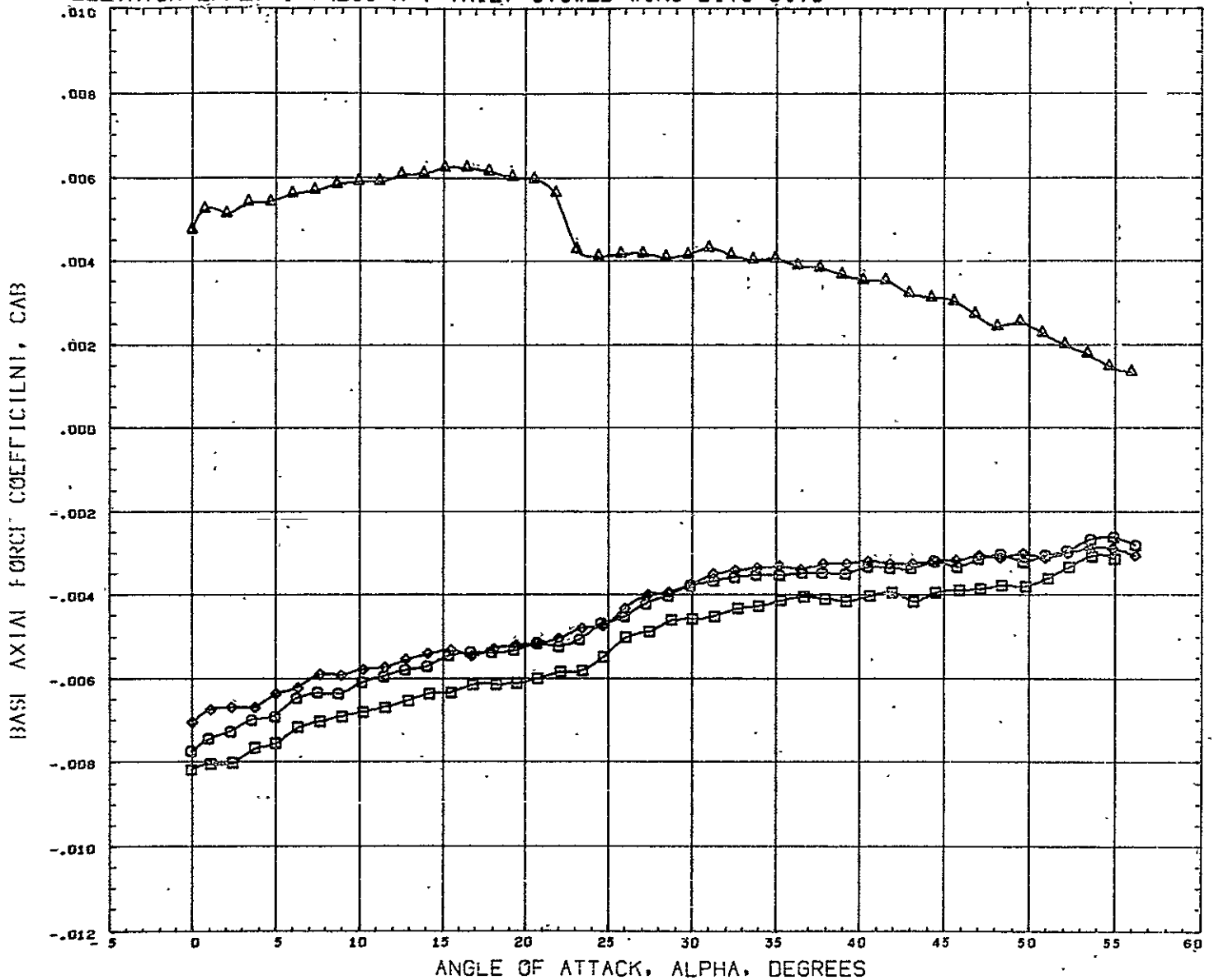


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9016)	GDHWT 247 B1T6-90V3	ELEVTR = -40 AILRON = 0	BETA 0.000 ELEVTR - 40.000 REFS 12.6746 IN2
(RC9015)	GDHWT 247 B1T6-90V3	ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000 REFL 10.0380 IN
(RC9014)	GDHWT 247 B1T6-90V3	ELEVTR = 0 AILRON = 0	REFB 1.4700 IN
(RC9035)	GDHWT 247 B1T6-90V3	ELEVTR = 20 AILRON = 0	XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 0.050



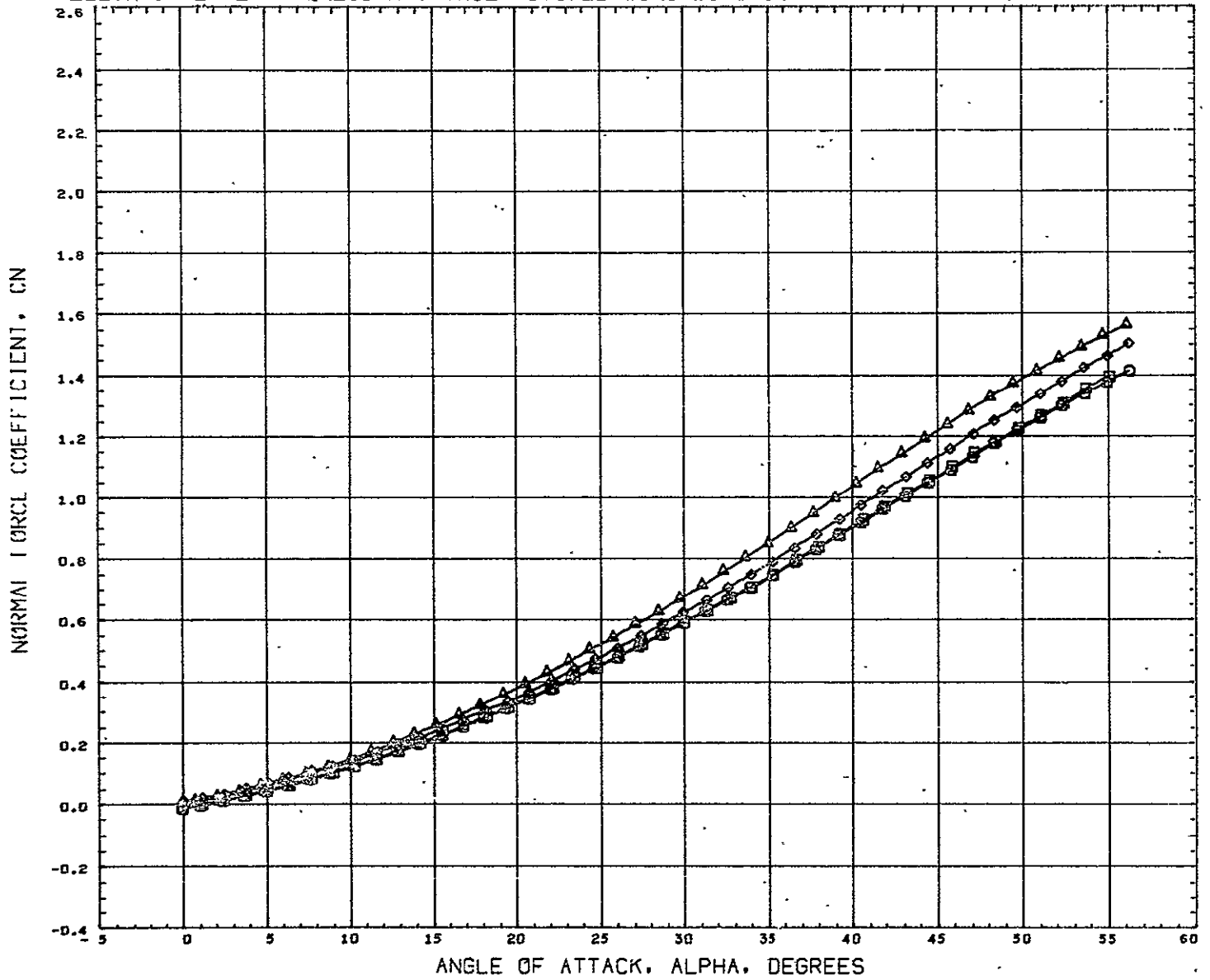
# ELEVATOR EFFECTIVENESS H-V TAIL, STOWED WING B1T6-90V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9016)	GDHWT 247 B1T6-90V3	ELEVTR = -40 AILRON = 0 BETA 0.000 ELEVTR - 40.000	REFS 12.6740 IN2
(RC9015)	GDHWT 247 B1T6-90V3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0360 IN
(RC9014)	GDHWT 247 B1T6-90V3	ELEVTR = 0 AILRON = 5	REF6 1.4700 IN
(RC9035)	GDHWT 247 B1T6-90V3	ELEVTR = 20 AILRON = 0	XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

HACH 8.050

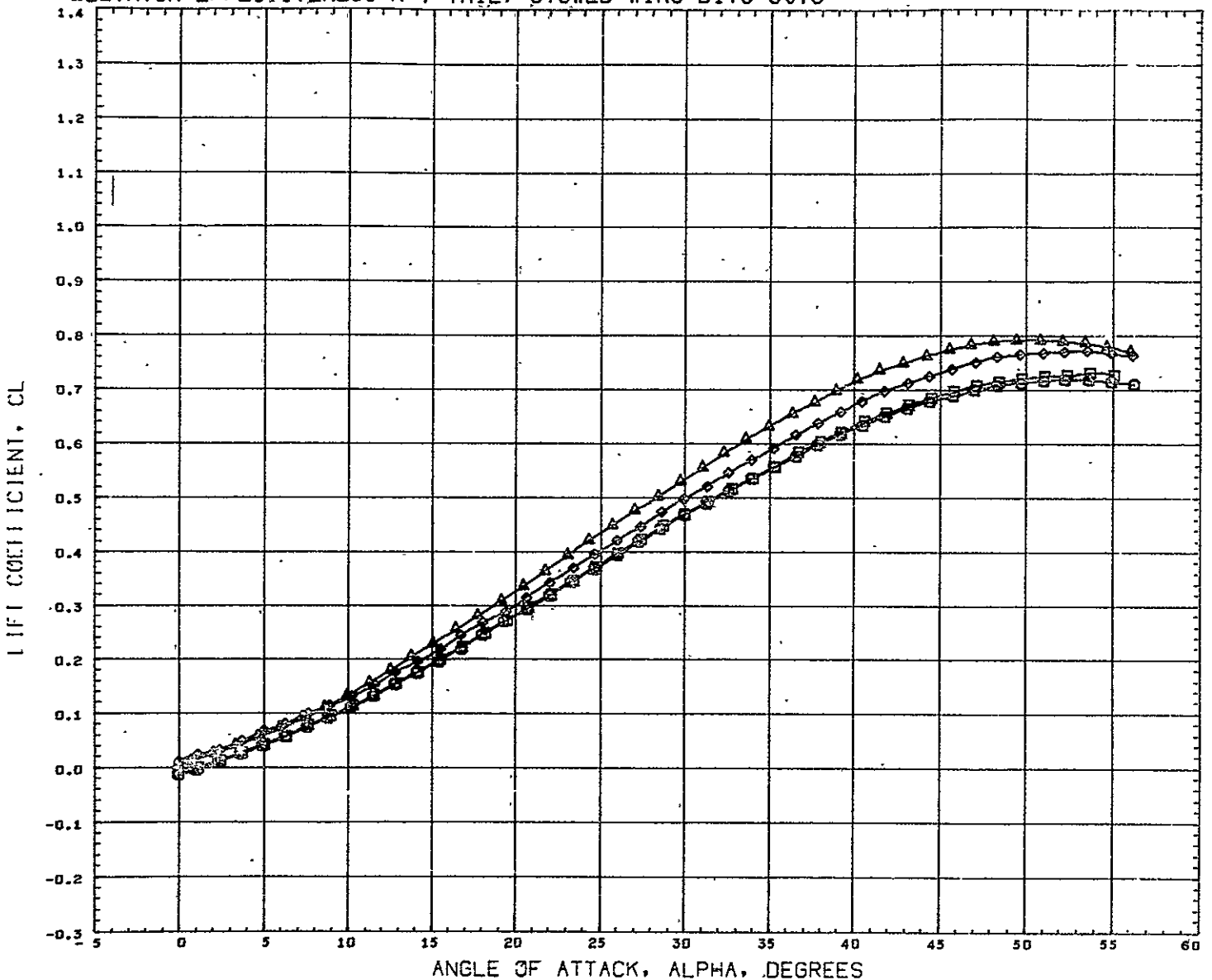
# ELEVATOR EFFECTIVENESS H-V TAIL, STOWED WING B1T6-90V3



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9016)	□	GDHWT 247 B1T6-90V3 ELEVTR = -40 AILRON = 0	BETA 0.000 ELEVTR = 40.000	REFS 12.6740 IN2
(RC9015)	◇	GDHWT 247 B1T6-90V3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9014)	○	GDHWT 247 B1T6-90V3 ELEVTR = 0 AILRON = 0		REFB 1.4700 IN
(RC9035)	△	GDHWT 247 B1T6-90V3 ELEVTR = 20 AILRON = 0		XMRP 6.2920 IN
				YMRP 0.0000 IN
				ZMRP 0.0000 IN
				SCALE 0.0035

MACH 8.050

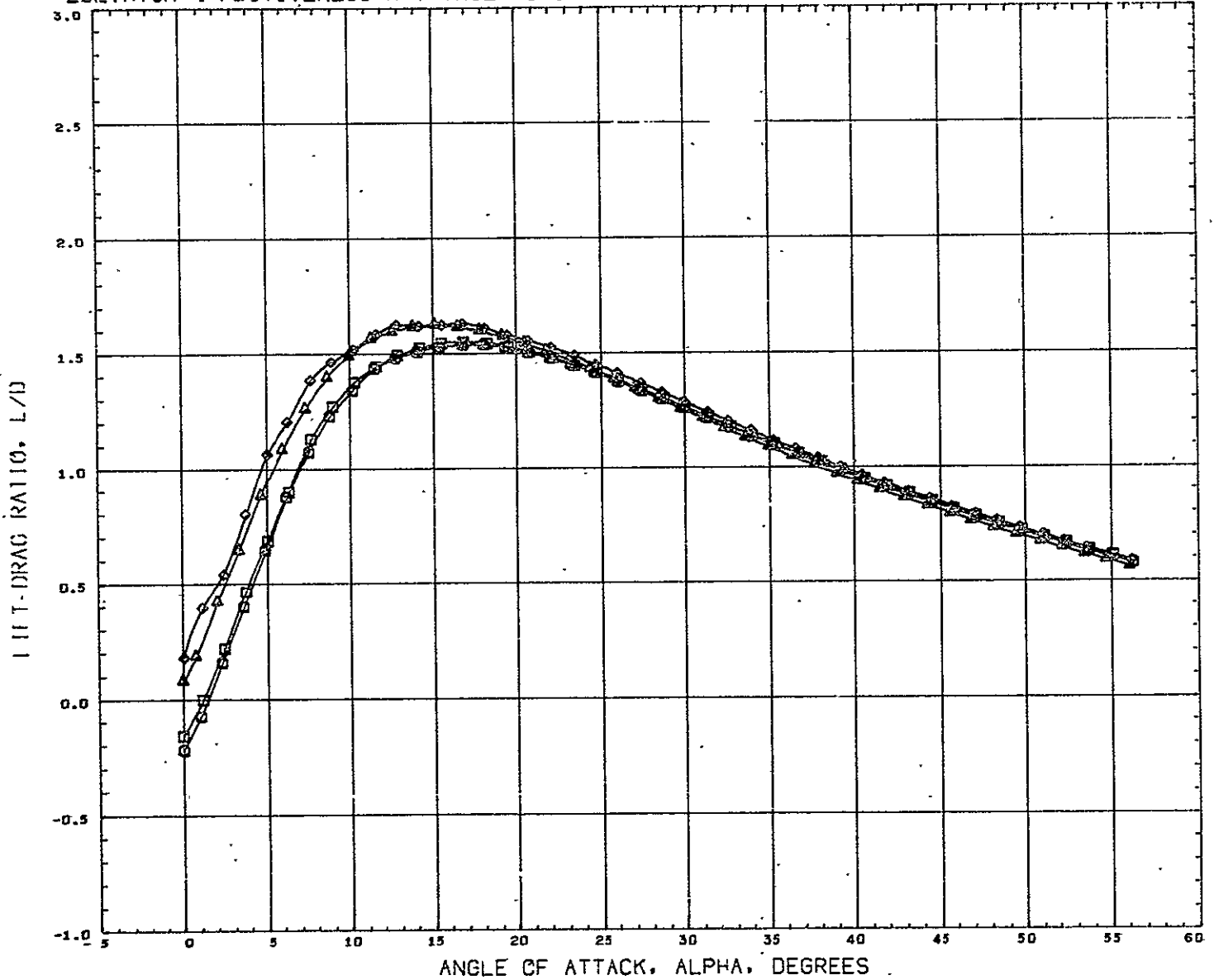
# ELEVATOR EFFECTIVENESS H-V TAIL, STOWED WING B116-90V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9016)	GDHWT 247 B116-90V3 ELEVTR = -40 AILRON = 0	BETA 0.000 ELEVTR = 40.000	REFS 12.6740 IN <sup>2</sup>
(RC9015)	GDHWT 247 B116-90V3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9014)	GDHWT 247 B116-90V3 ELEVTR = 0 AILRON = 0		REFB 1.4700 IN
(RC9035)	GDHWT 247 B116-90V3 ELEVTR = 20 AILRON = 0		XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

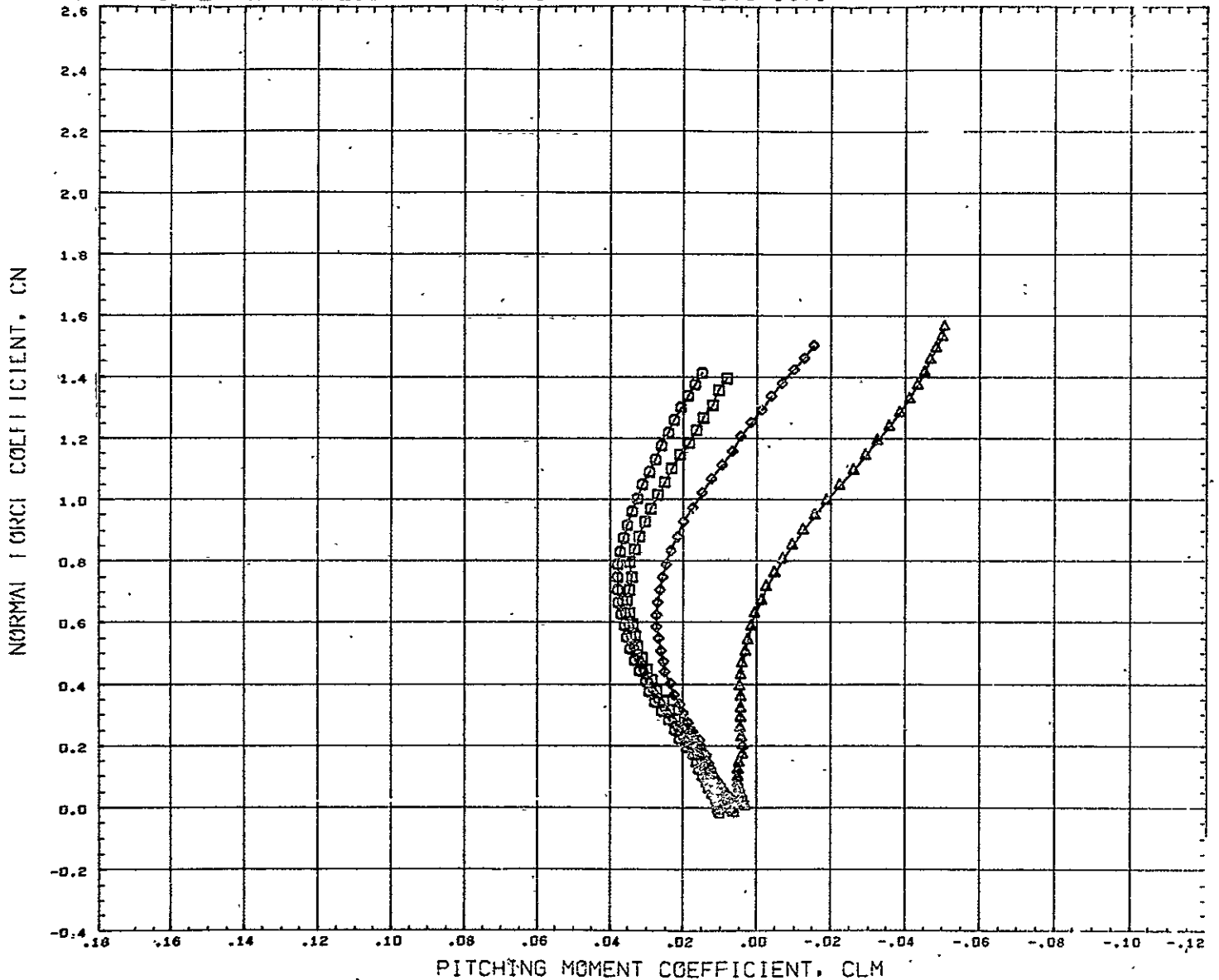
# ELEVATOR EFFECTIVENESS H-V TAIL, STOWED WING BIT6-90V3



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9016)	○	GDHWT 247 BIT6-90V3 ELEVTR = -40 AILRON = 0	BETA 0.000 ELEVTR - 40.000	REFS 12.6740 IN2
(RC9015)	□	GDHWT 247 BIT6-90V3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9014)	◇	GDHWT 247 BIT6-90V3 ELEVTR = 0 AILRON = 0		REFB 1.4700 IN
(RC9035)	△	GDHWT 247 BIT6-90V3 ELEVTR = 20 AILRON = 0		XMRP 6.2920 IN
				YMRP 0.0000 IN
				ZMRP 0.0000 IN
				SCALE 0.0035

MACH 0.050

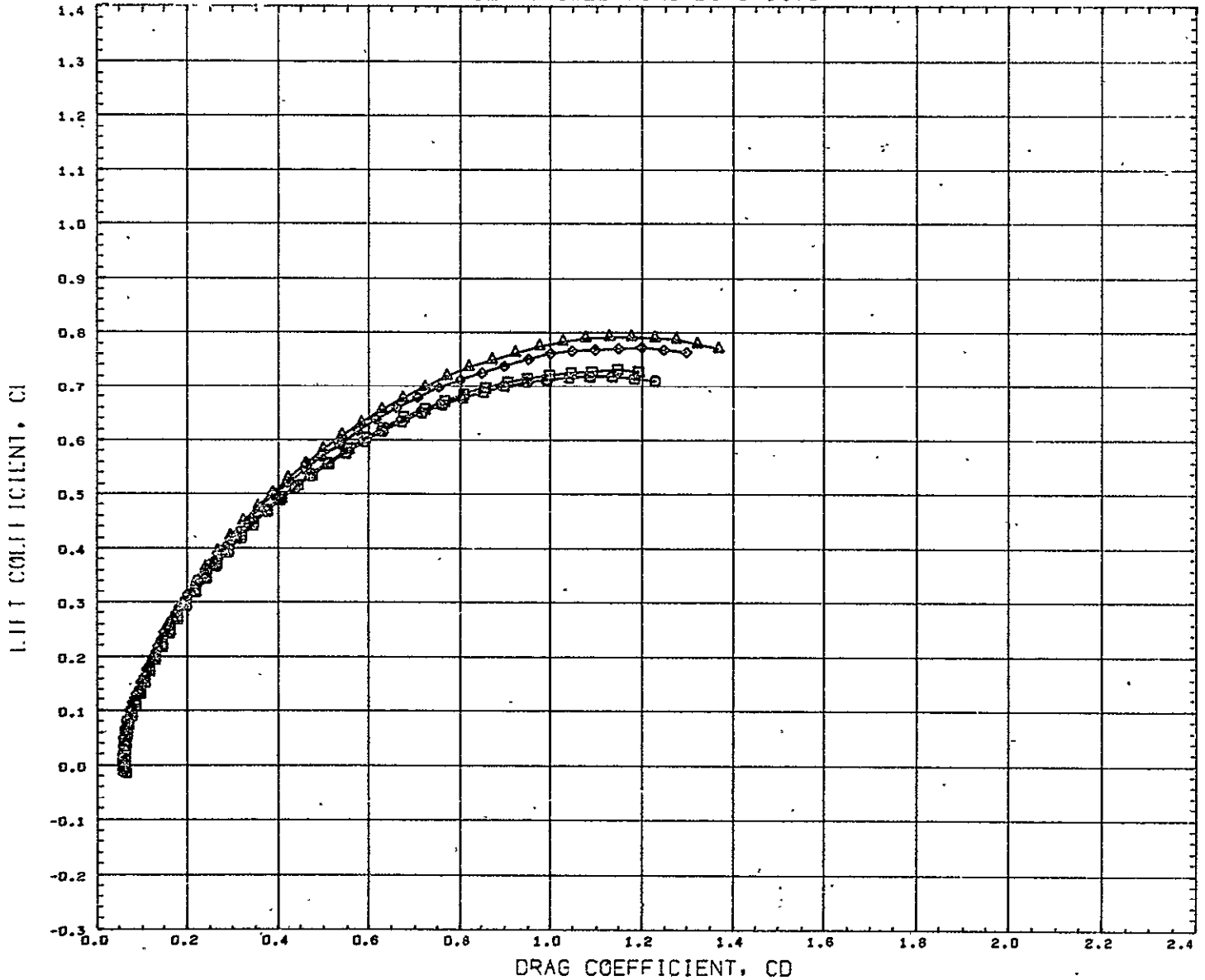
# ELEVATOR EFFECTIVENESS H-V TAIL, STOWED WING B1T6-90V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9016)	GDHWT 247 B1T6-90V3 ELEVTR = -40 AILRON = 0	BETA 0.000 ELEVTR = 40.000	REFS 12.6740 IN2
(RC9015)	GDHWT 247 B1T6-90V3 ELEVTR = -20 AILRON = 0	RUDDFR 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9014)	GDHWT 247 B1T6-90V3 ELEVTR = 0 AILRON = 0		REFB 1.4700 IN
(RC9035)	GDHWT 247 B1T6-90V3 ELEVTR = 20 AILRON = 0		XHRF 6.2920 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 8.050

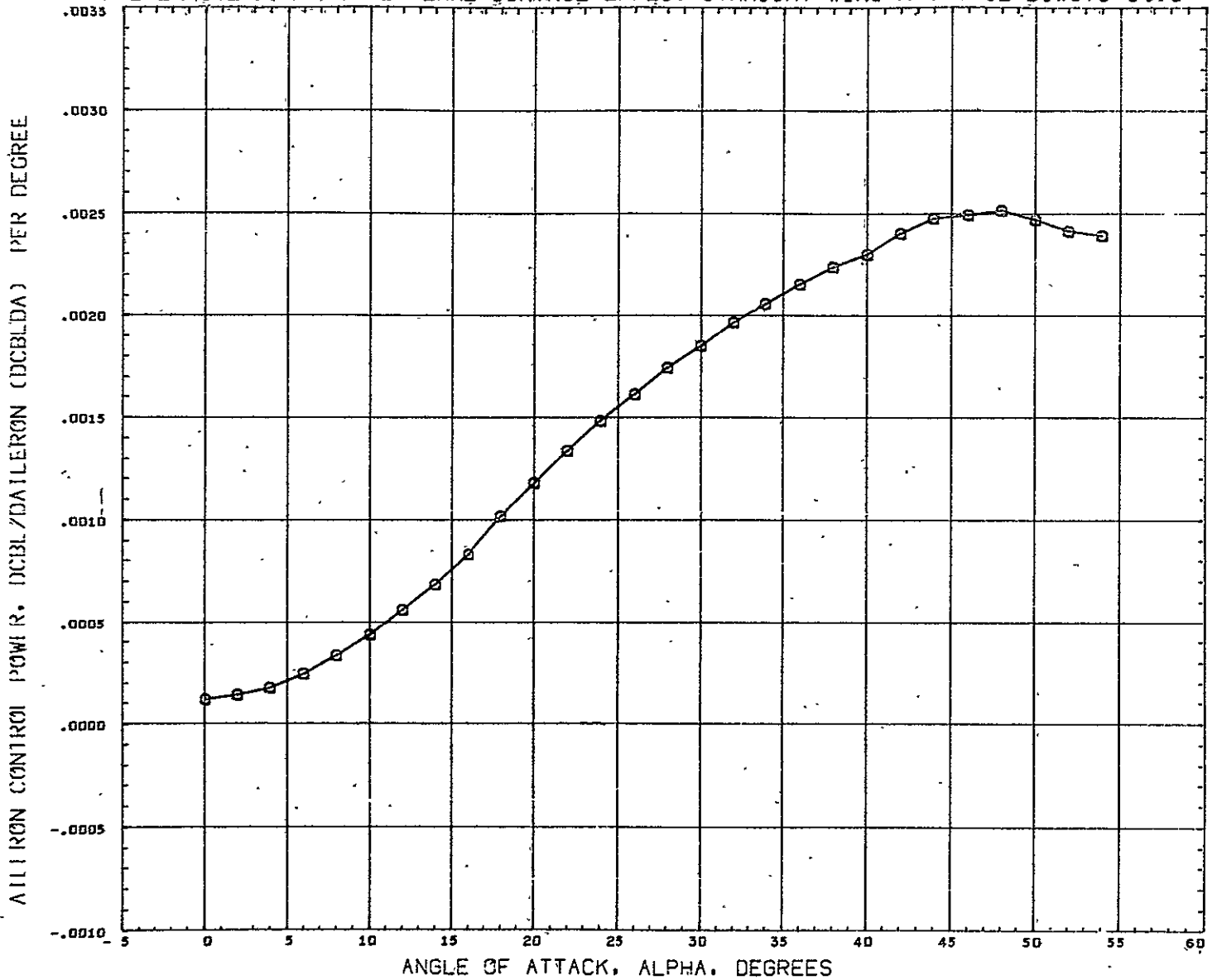
# ELEVATOR EFFECTIVENESS H-V TAIL, STOWED WING B1T6-90V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9016)	□ CDHWT 247 B1T6-90V3 ELEVTR = -40 AILRON = 0	BETA 0.000 ELEVTR - 40.000	REFS 12.6740 IN2
(RC9015)	◇ CDHWT 247 B1T6-90V3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9014)	○ CDHWT 247 B1T6-90V3 ELEVTR = 0 AILRON = 0		REFB 1.4700 IN
(RC9035)	△ CDHWT 247 B1T6-90V3 ELEVTR = 20 AILRON = 0		XHRF 6.2920 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 8.050

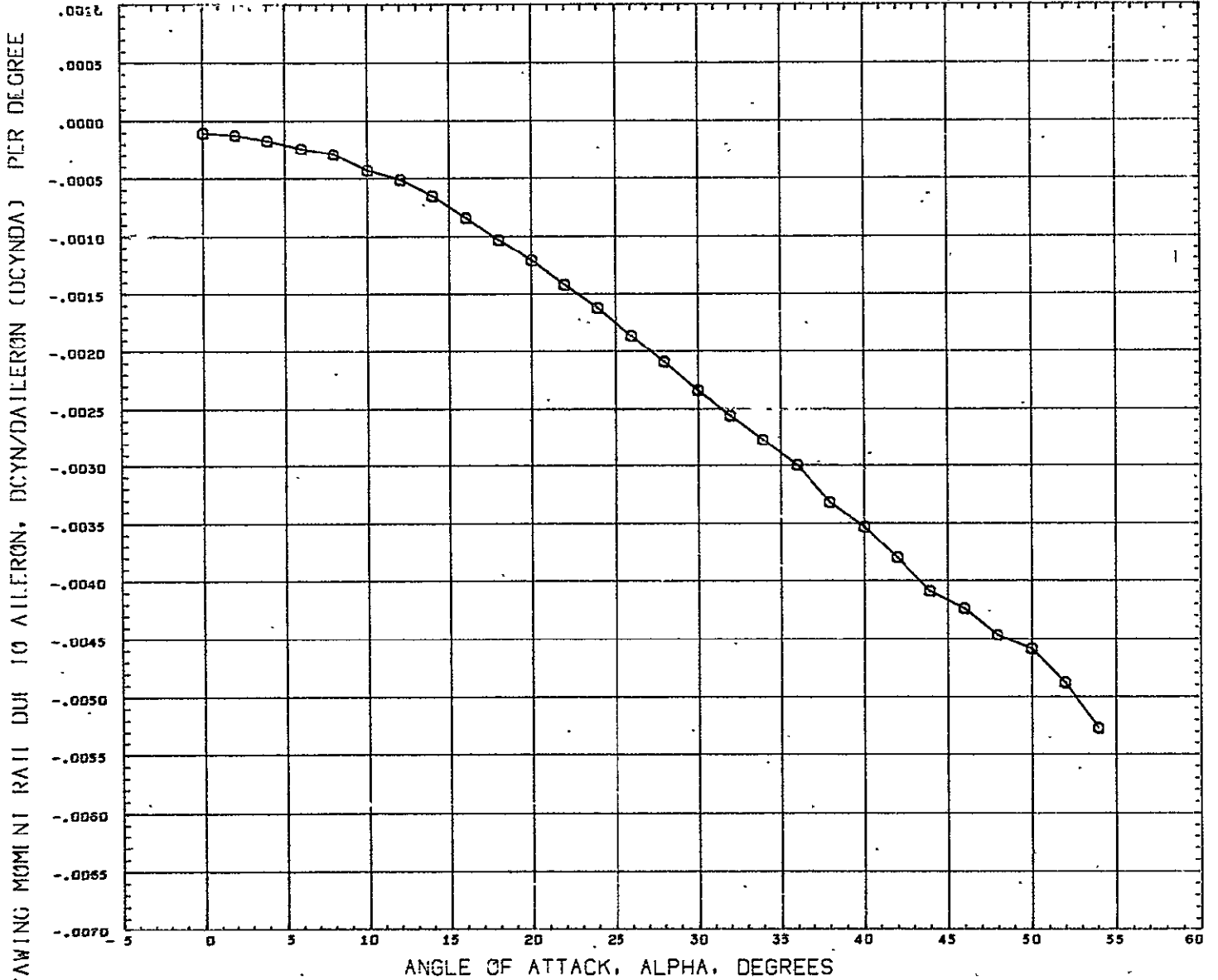
DIFFERENTIAL ELEVATOR LATERAL CONTROL EFFECT STRAIGHT WING H-V TAIL B1W3T6-90V3



SYMBOL	MACH	PARAMETRIC VALUES		REFERENCE INFORMATION				
0	8.050	BETA	0.000	ELEVTR	10.000	REFS	12.6740	IN2
		RUDSER	0.000	AILRON	-10.000	REFL	10.0380	IN
						REFB	1.4700	IN
						XMRP	6.2920	IN
						YMRP	0.0000	IN
						ZMRP	0.0000	IN
						SCALE	0.0035	

DATA HIST. CODE \*F

DIFFERENTIAL ELEVATOR LATERAL CONTROL EFFECT STRAIGHT WING H-V TAIL B1W3T6-90V3



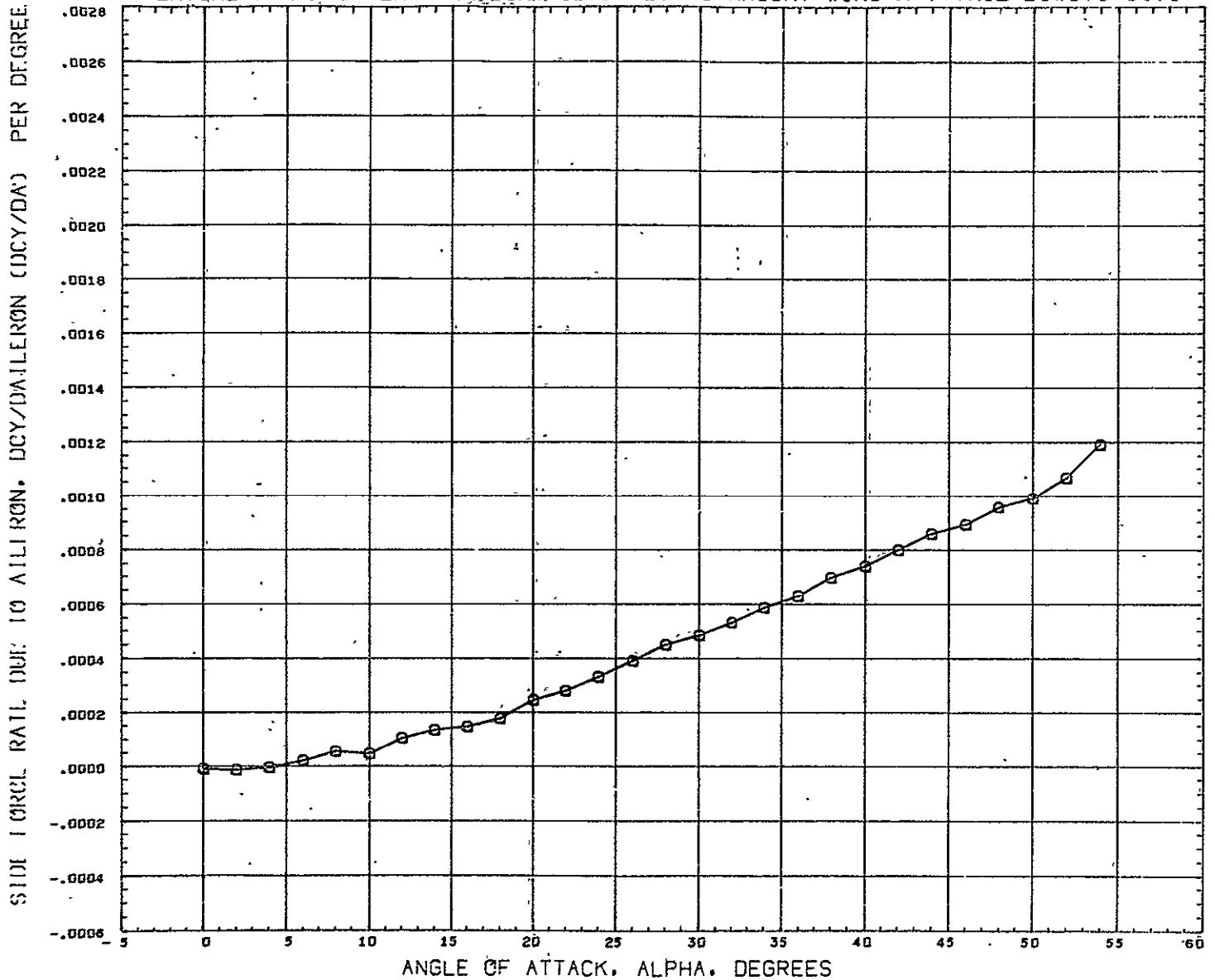
SYMBOL MACH PARAMETRIC VALUES  
 O 8.050 BETA 0.000 ELEVTR 10.000  
 RUDDER 0.000 AILRON -10.000

REFERENCE INFORMATION  
 REFS 12.6740 IN2  
 REFL 10.0380 IN  
 REFB 1.4700 IN  
 XMRP 6.2920 IN  
 YMRP 0.0000 IN  
 ZMRP 0.0000 IN  
 SCALE 0.0035

DATA HIST. CODE

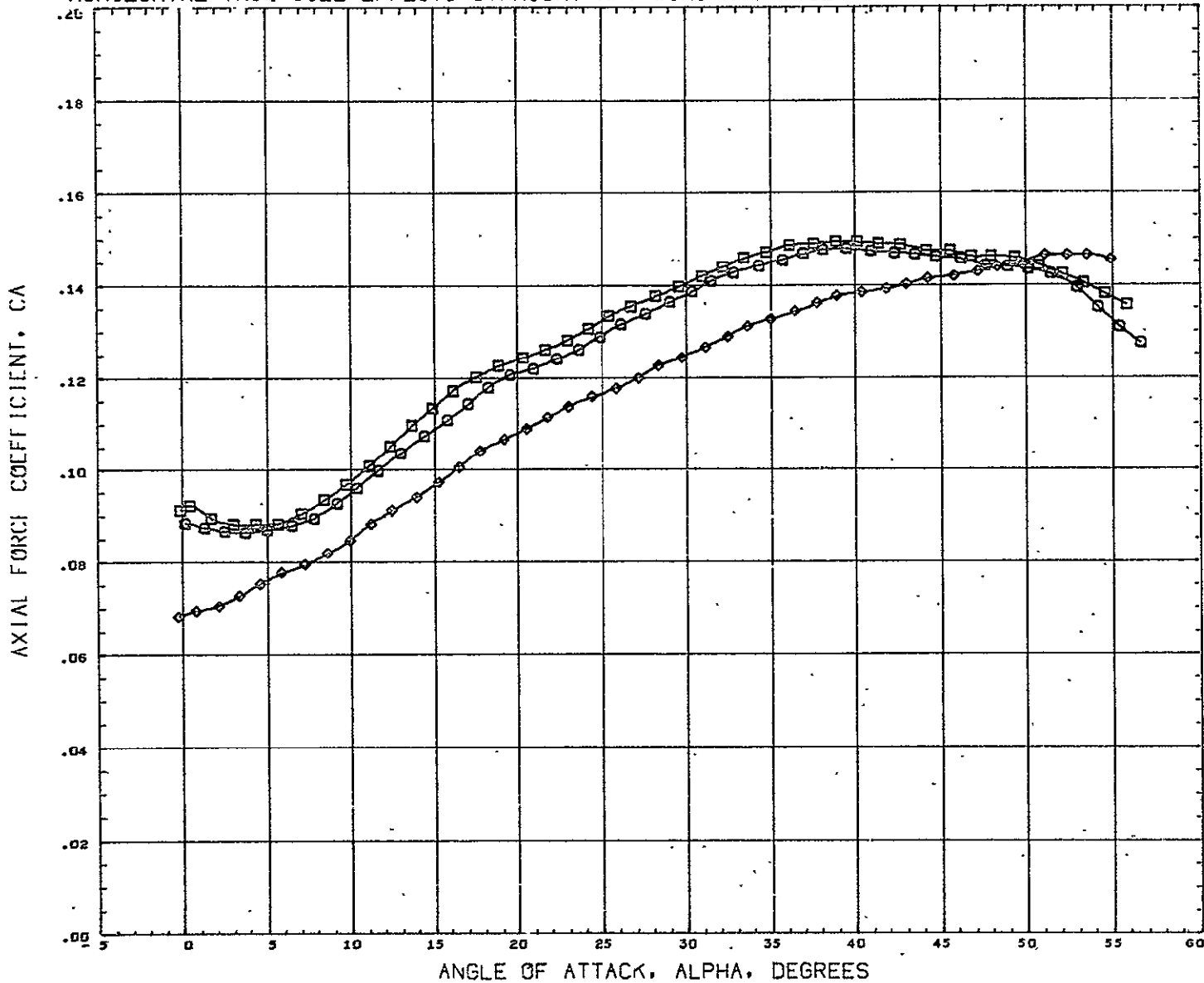


DIFFERENTIAL ELEVATOR LATERAL CONTROL EFFECT STRAIGHT WING H-V TAIL B1W3T6-90V3



SYMBOL		MACH		PARAMETRIC VALUES				REFERENCE INFORMATION		
Q	0.050	BETA	0.000	ELEVTR	10.000	REFS	12.6740	IN2		
		RUDDER	0.000	AILRON	-10.000	REFL	10.0380	IN		
						REFB	1.4700	IN		
						XMRP	6.2920	IN		
						YMRP	0.0000	IN		
						ZMRP	0.0000	IN		
						SCALE	0.0035			
DATA HIST. CODE		#F								

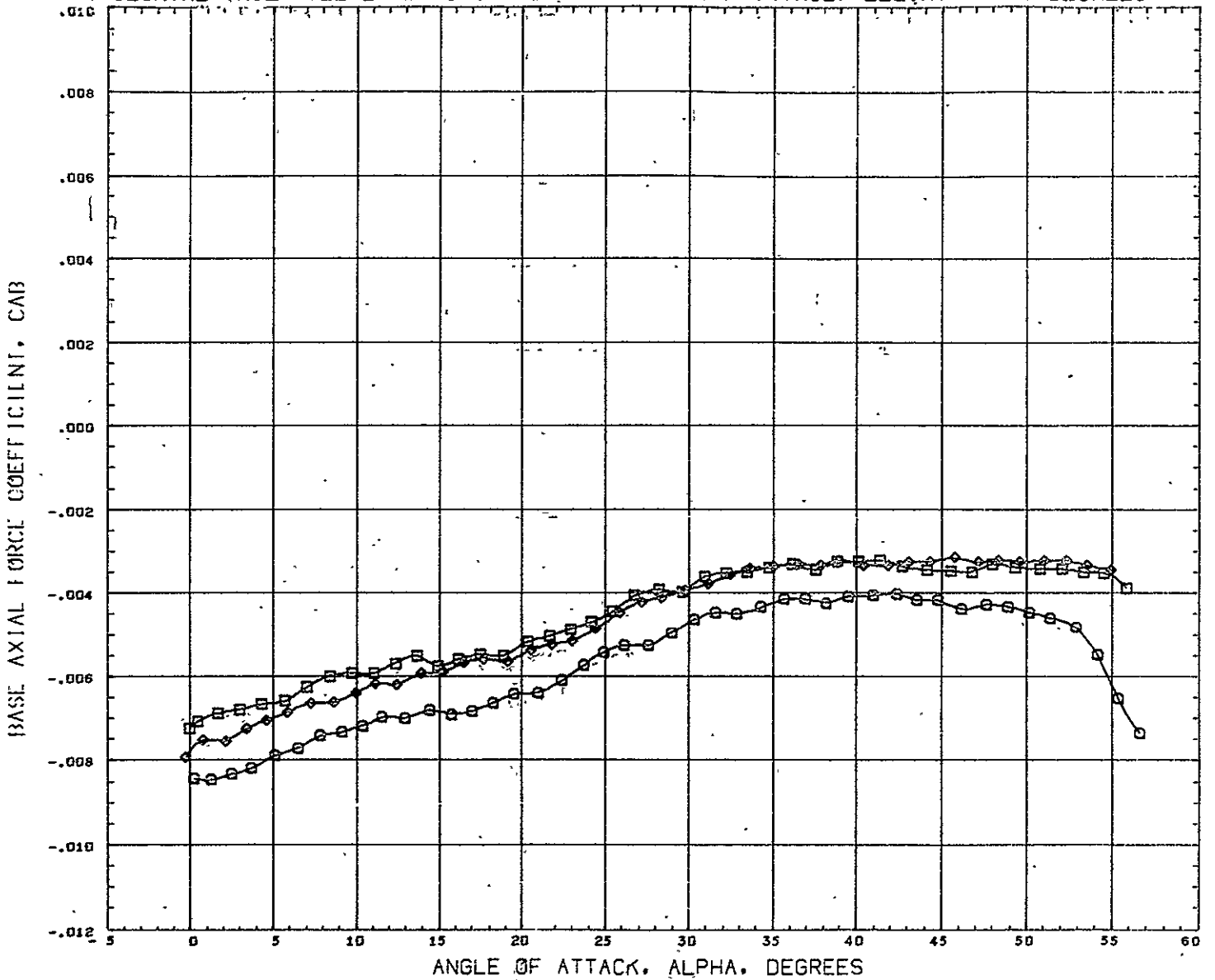
# HORIZONTAL TAIL SIZE EFFECTS STRAIGHT AFT WING H-V TAIL, ELEVATR = 20 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9003)	GDHWT 247 B1W3T6-90V3	ELEVTR = -20 AILRON = 0 BETA 0.000 ELEVTR = 20.000	REFS 12.6740 IN2
(RC9011)	GDHWT 247 B1W3T1-90V3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W3		REFB 1.4700 IN
			XNRP 6.2920 IN
			YNRP 0.0000 IN
			ZNRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

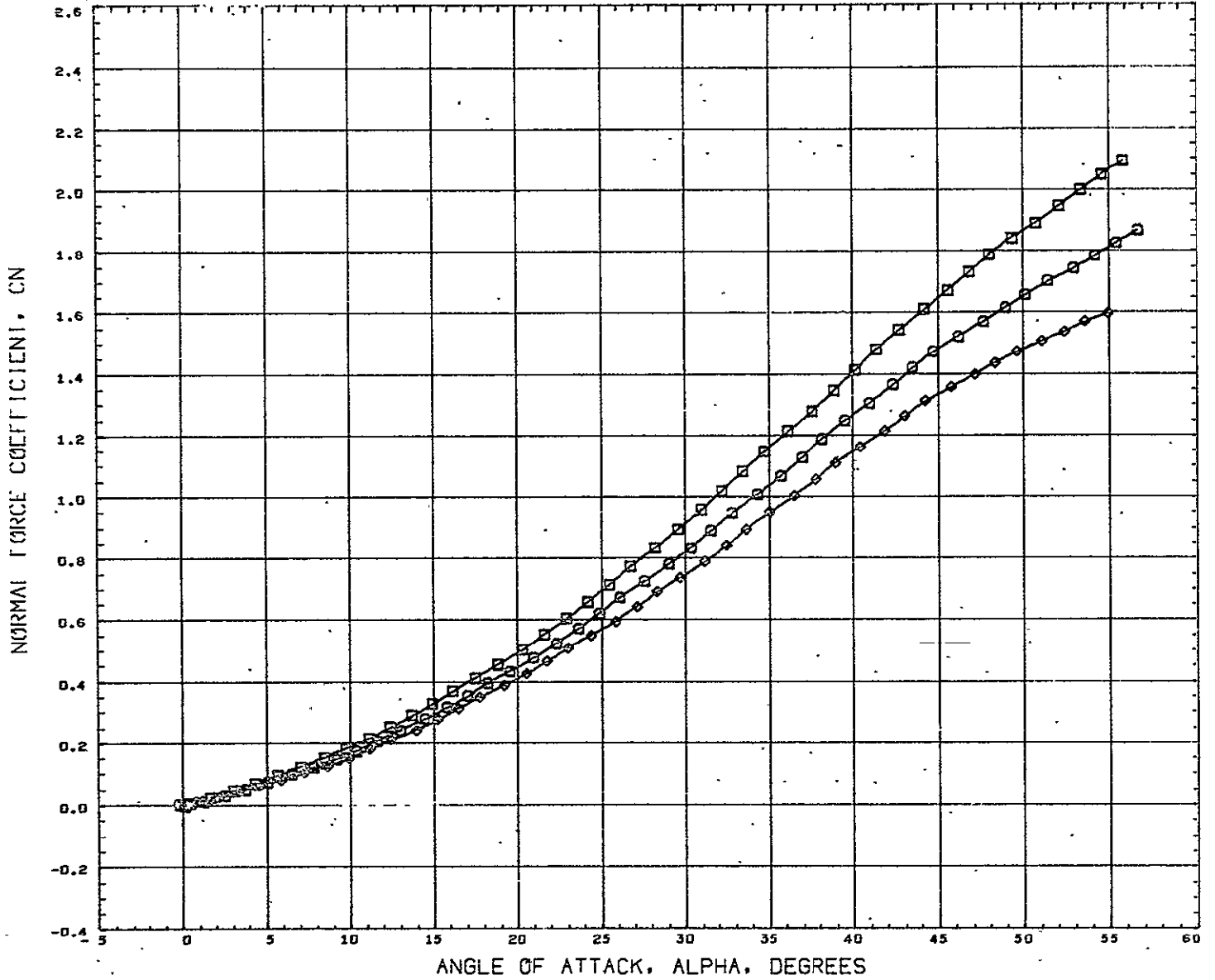
HORIZONTAL TAIL SIZE EFFECTS STRAIGHT AFT WING H-V TAIL, ELEVATR = 20 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9003)	GDHWT 247 B1W3T6-90V3	ELEVTR = -20 AILRON = 0 BETA 0.000 ELEVTR = 20.000	REFS 12.6740 IN2
(RC9011)	GDHWT 247 B1W3T1-90V3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W3		REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 0.950

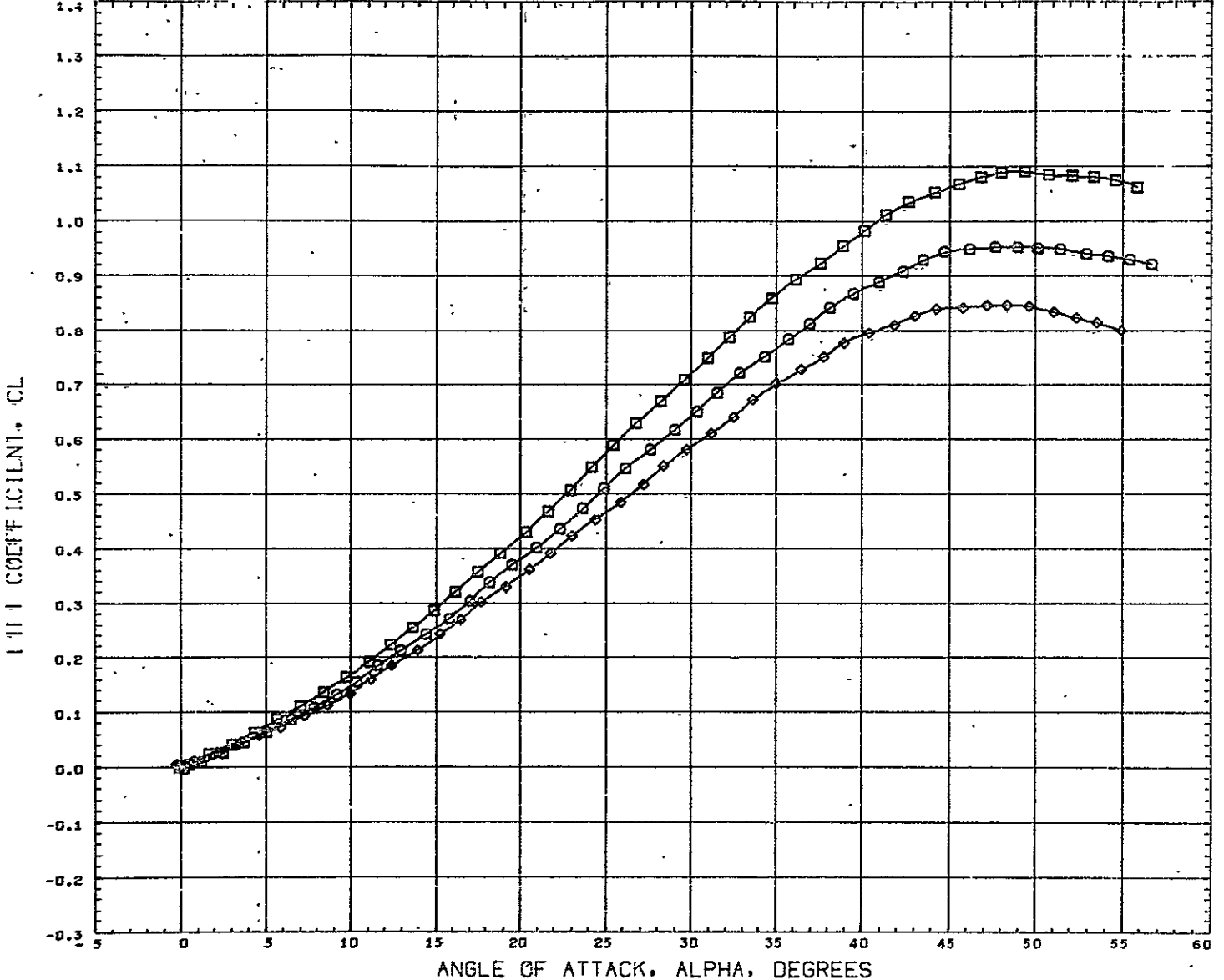
# HORIZONTAL TAIL SIZE EFFECTS STRAIGHT AFT WING H-V TAIL, ELEVATR = 20 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9003)	GDHWT 247 B1W3T6-90V3	ELEVTR = -20 AILRON = 0 BETA 0.000 ELEVTR = 20.000	REFS 12.6740 IN2
(RC9011)	GDHWT 247 B1W3T1-90V3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W5		REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 0.050

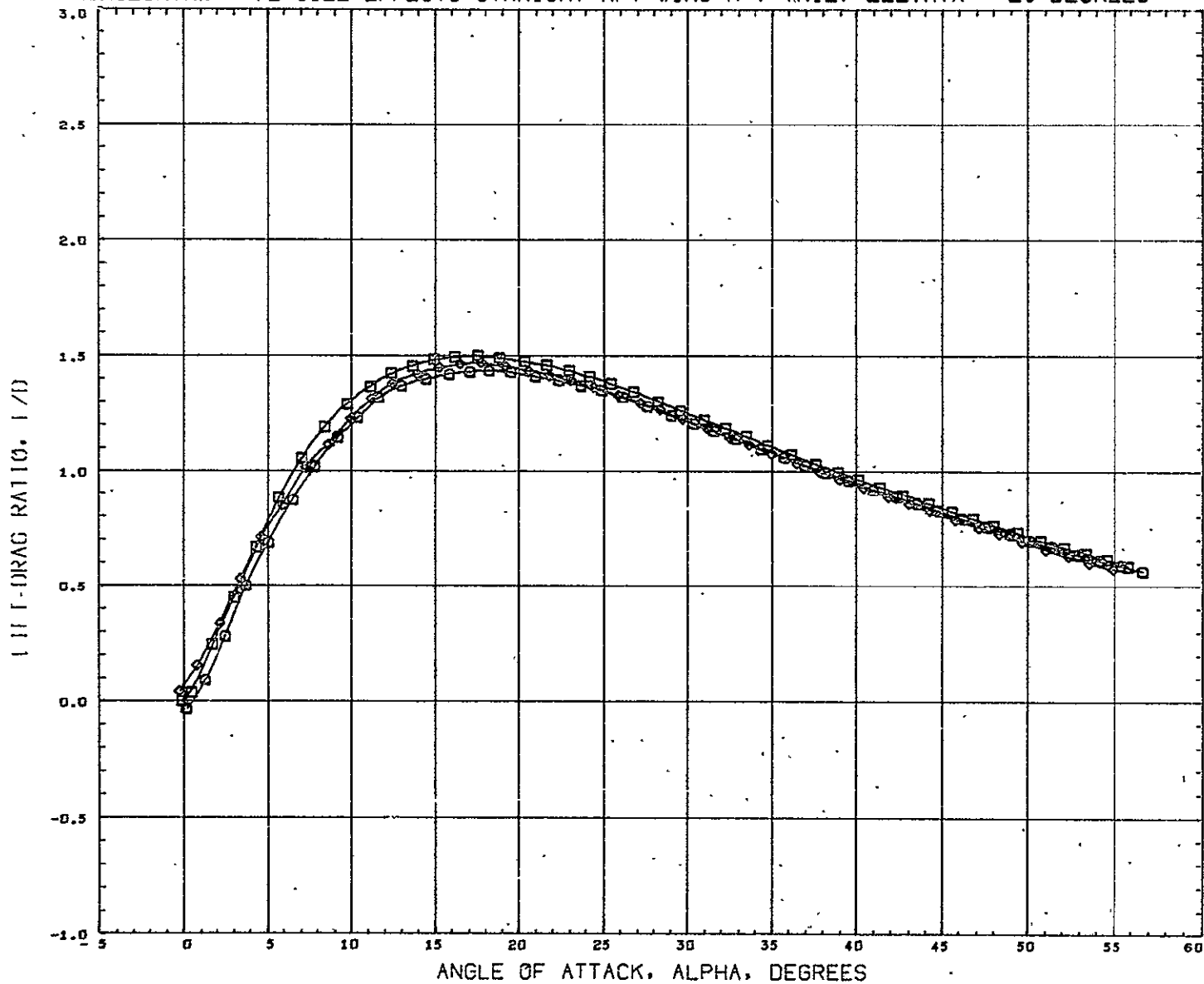
HORIZONTAL TAIL SIZE EFFECTS STRAIGHT AFT WING H-V TAIL, ELEVATR = 20 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9003)	GDHWT 247 B1W3T6-90V3	ELEVTR = -20 AILRON = 0 BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9011)	GDHWT 247 B1W3T1-90V3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W3		REFS 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

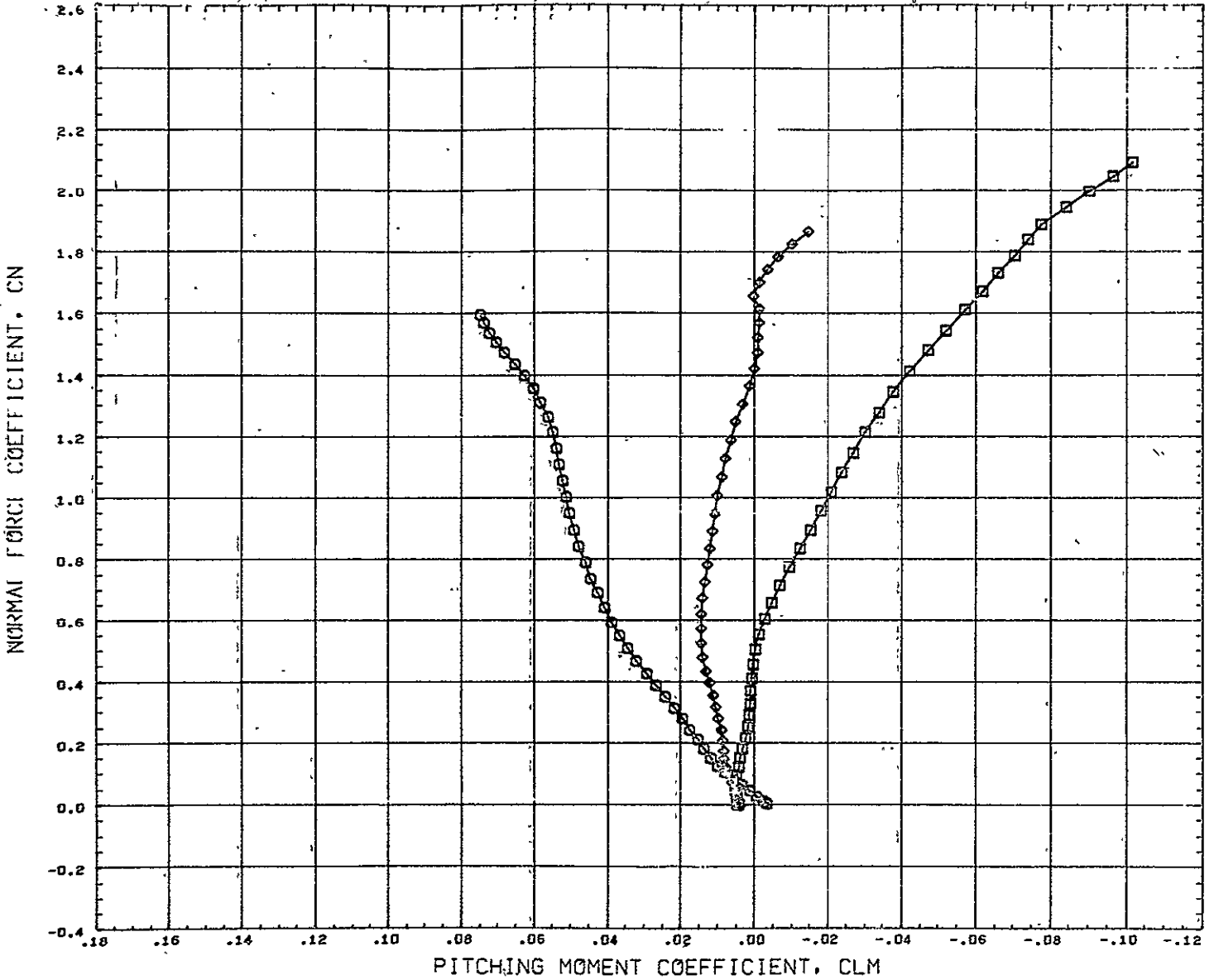
# HORIZONTAL TAIL SIZE EFFECTS STRAIGHT AFT WING H-V TAIL, ELEVATR = 20 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9003)	GDHWT 247 B1W3T6-90W3	ELEVTR = -20 AILRON = 0 BETA 0.000 ELEVTR = 20.000	REFS 12.6740 IN2
(RC9011)	GDHWT 247 B1W3T1-90V3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9012)	GDHWT 247 B1W3		REFB 1.4700 IN
			XHRF 6.2920 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 0.050

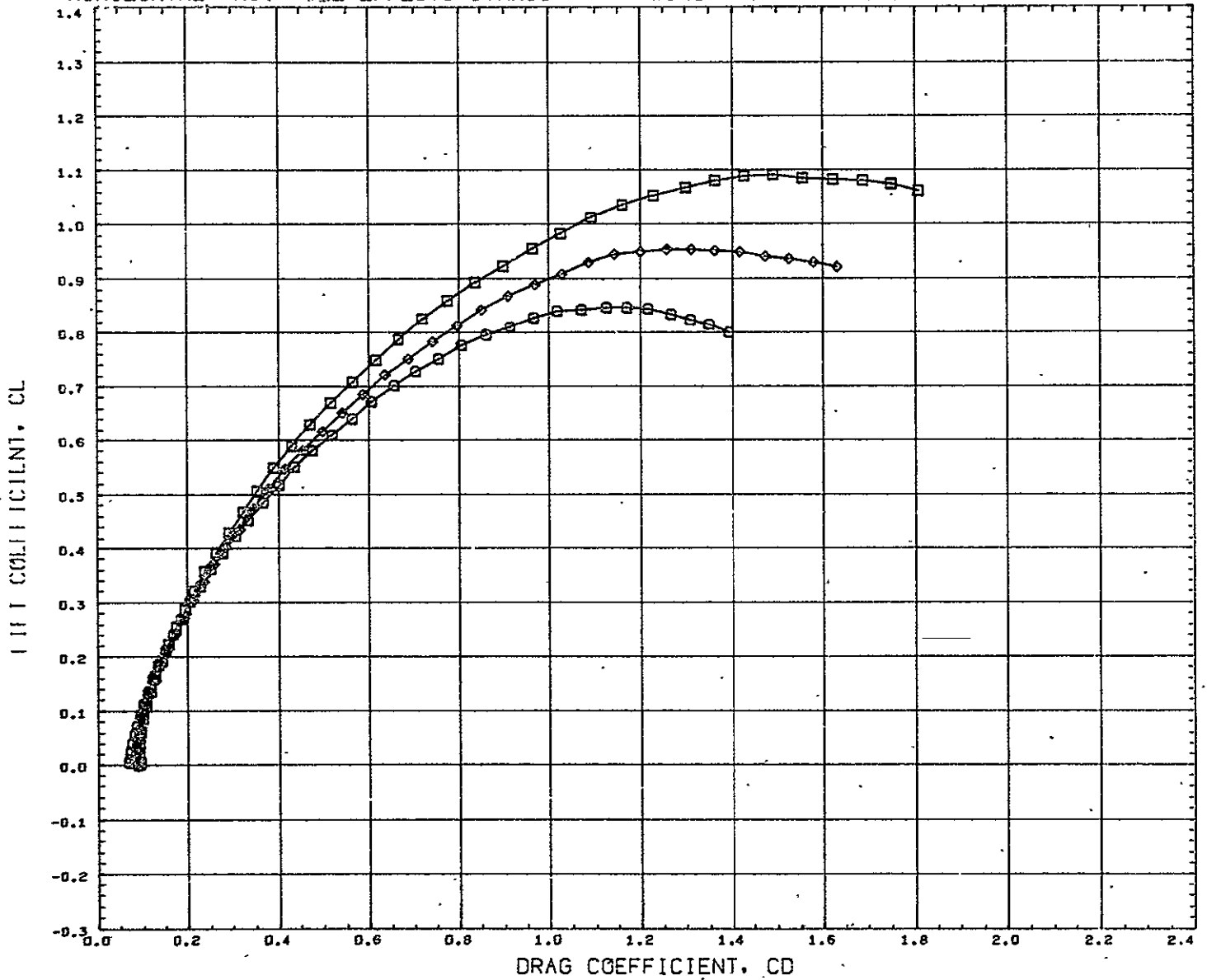
HORIZONTAL TAIL SIZE EFFECTS STRAIGHT AFT WING H-V TAIL, ELEVATR = 20 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9012)	GDHWT 247 B1W3	BETA 0.000	REFS 12.6740 IN2
(RC9011)	GDHWT 247 B1W3T1-9DV3 ELEVTR = -20 AILRON = 0		REFL 10.0386 IN
(RC9003)	GDHWT 247 B1W3T8-9DV3 ELEVTR = -20 AILRON = 0		REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

HORIZONTAL TAIL SIZE EFFECTS STRAIGHT AFT WING H-V TAIL, ELEVATR = 20 DEGREES

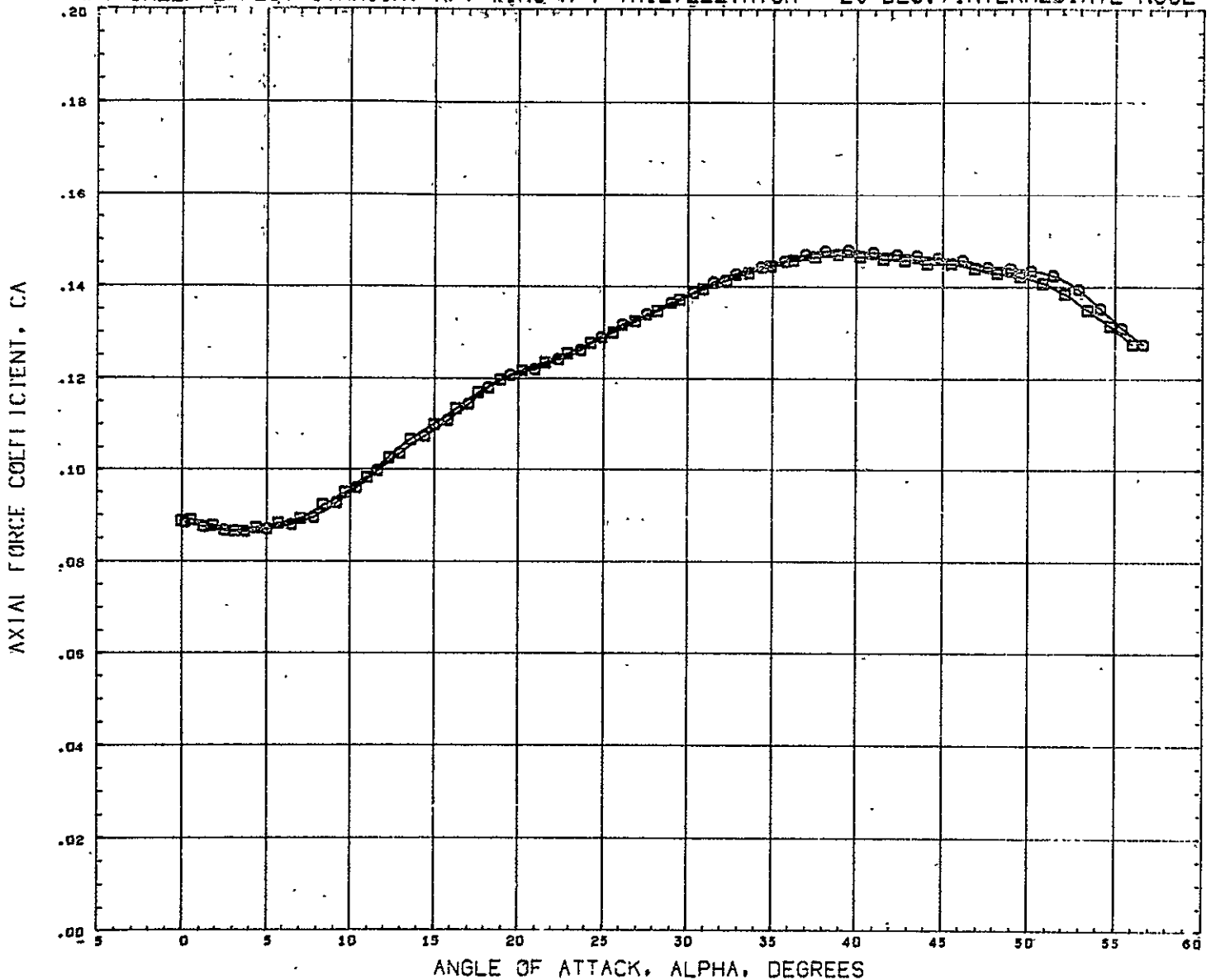


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9012)	GDHWT 247 B1W3	BETA -0.000	REFS 12.6740 IN2
(RC9011)	GDHWT 247 B1W3T1-90V3	ELEVTR --20 AILRON = 0	REFL 10.0380 IN
(RC9003)	GDHWT 247 B1W3T6-90V3	ELEVTR --20 AILRON = 0	REFB 1.4700 IN.
			XMRP 6.2920 IN.
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050



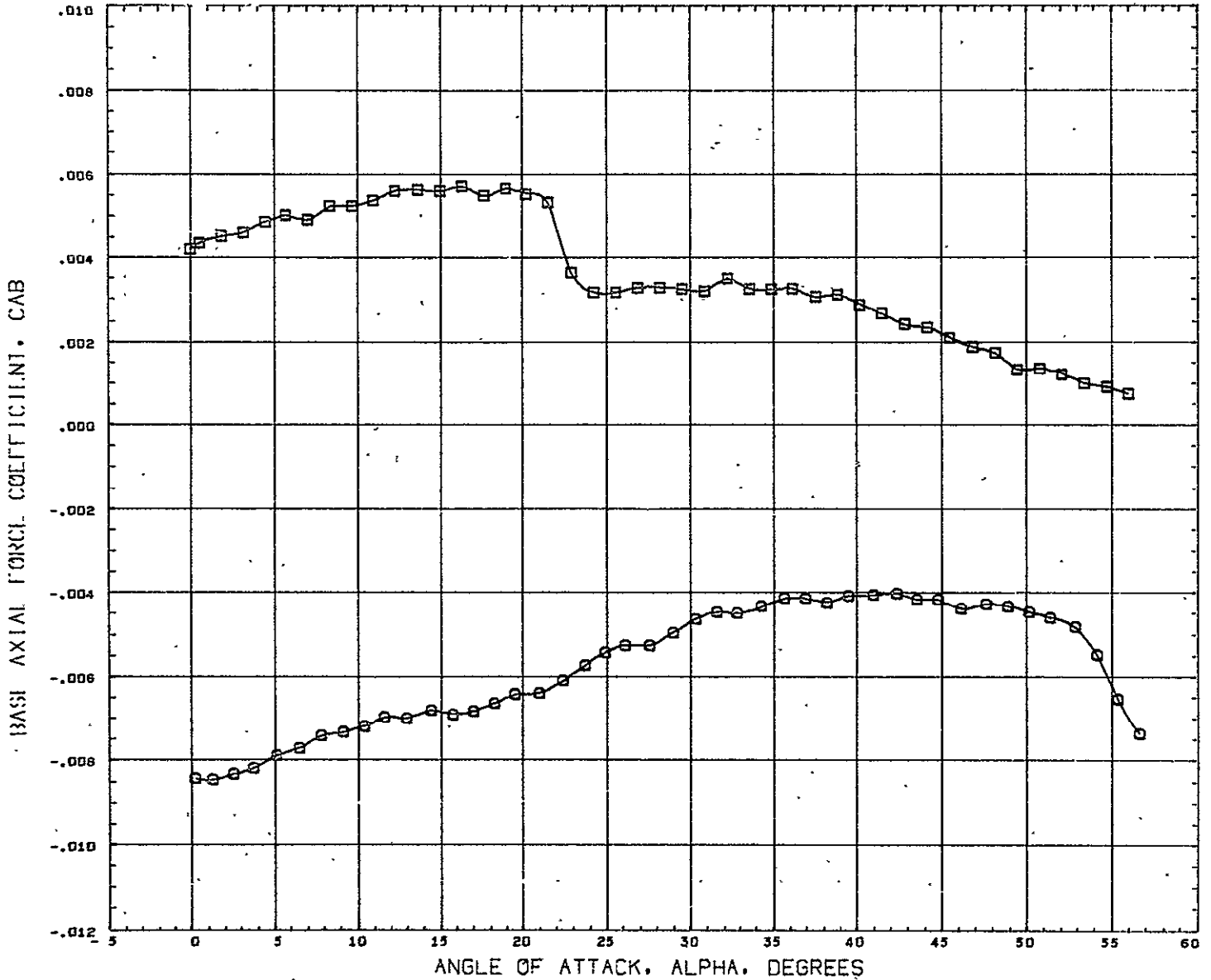
AFT SHELF EFFECT STRAIGHT AFT WING H-V TAIL, ELEVATOR = -20 DEG., INTERMEDIATE NOSE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9003)	GDHWT 247 B1W3T6-90V3	ELEVTR = -20 AILRON = 0 BETA 0.000 ELEVTR = 20.000	REFS 12.6740 IN2
(RC9032)	GDHWT 247 B14W3T6-90V3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

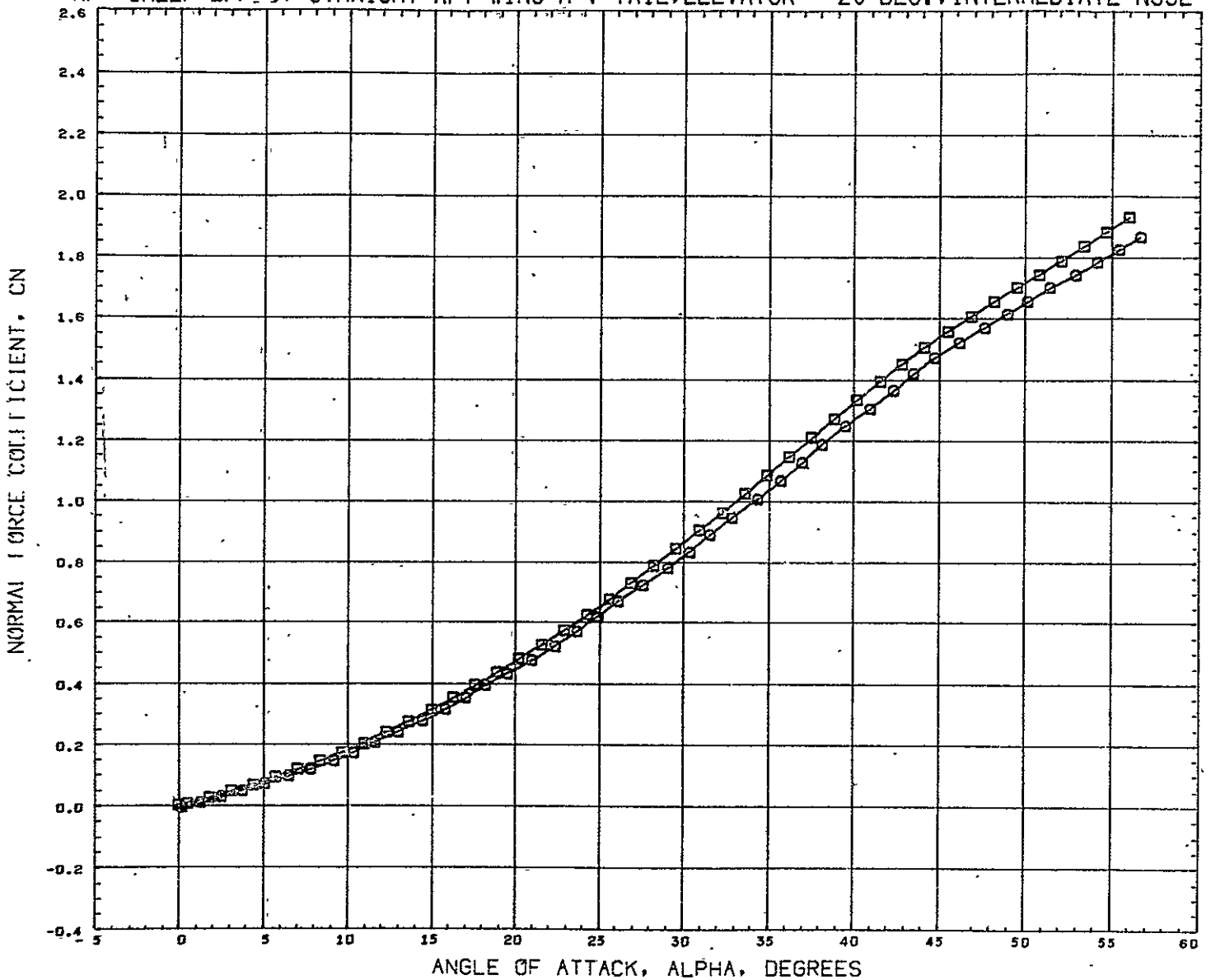
MACH 8.050

AFT SHELF EFFECT STRAIGHT AFT WING H-V TAIL, ELEVATOR = -20 DEG., INTERMEDIATE NOSE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9003)	110 GDHWT 247 B14W3T6-90V3 ELEVTR = -20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9032)	110 GDHWT 247 B14W3T6-90V3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFS 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035
MACH	8.050		

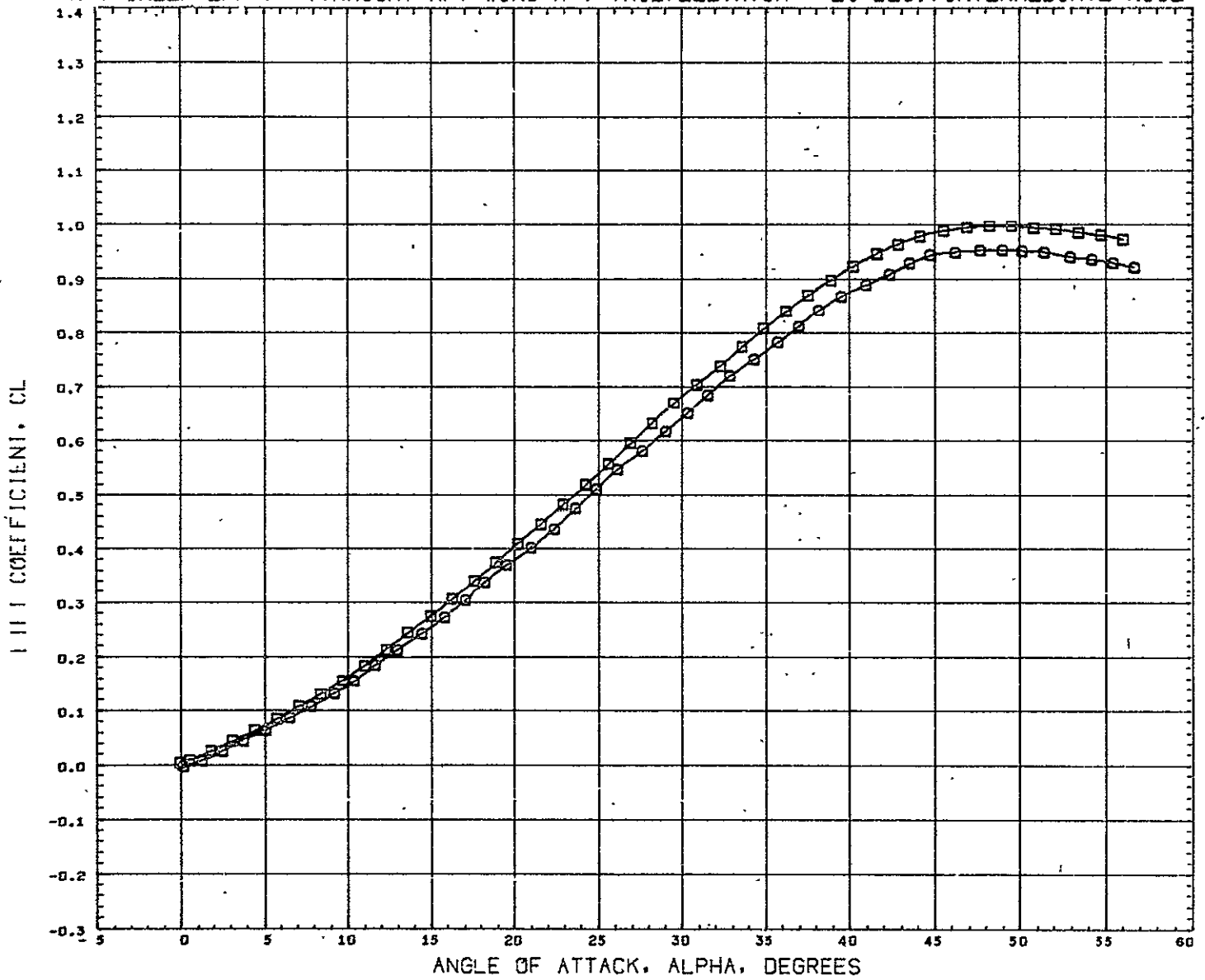
AFT SHELF EFFECT STRAIGHT AFT WING H-V TAIL, ELEVATOR = -20 DEG., INTERMEDIATE NOSE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9003)	GDHWT 247 B1W3T6-90V3 ELEVTR = -20 AILRON = 0	8FTA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9032)	GDHWT 247 B14W3T6-90V3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.950

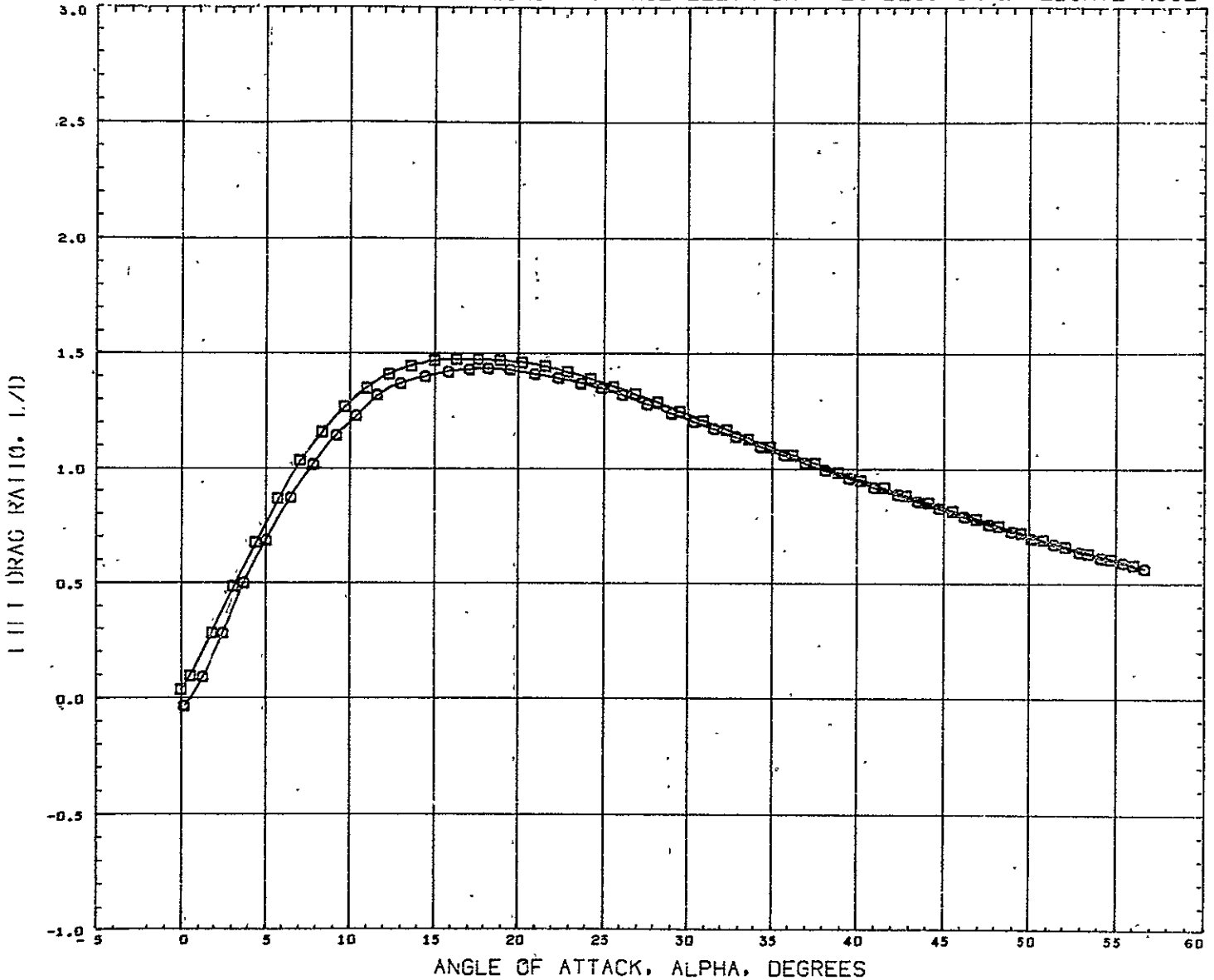
AFT SHELF EFFECT STRAIGHT AFT WING H-V TAIL, ELEVATOR = -20 DEG., INTERMEDIATE NOSE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9003)	GDHWT 247 B14W3T6-90V3 ELEVTR = -20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9032)	GDHWT 247 B14W3T6-90V3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.550

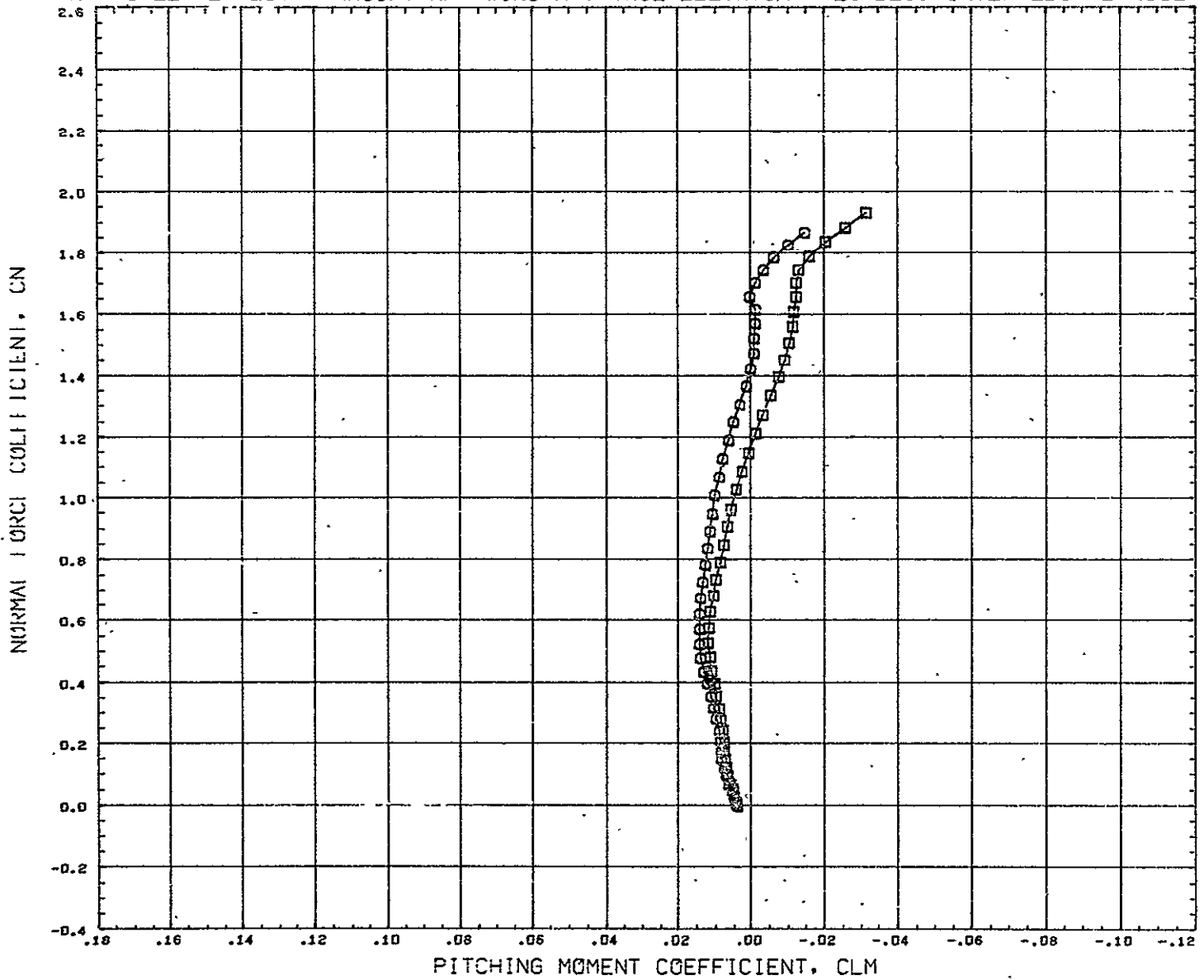
AFT-SHELF EFFECT STRAIGHT AFT WING H-V TAIL, ELEVATOR = -20 DEG., INTERMEDIATE NOSE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9003)	GDHWT 247 B1W3T6-90V3 ELEVTR = -20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9032)	GDHWT 247 B14W3T6-90V3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

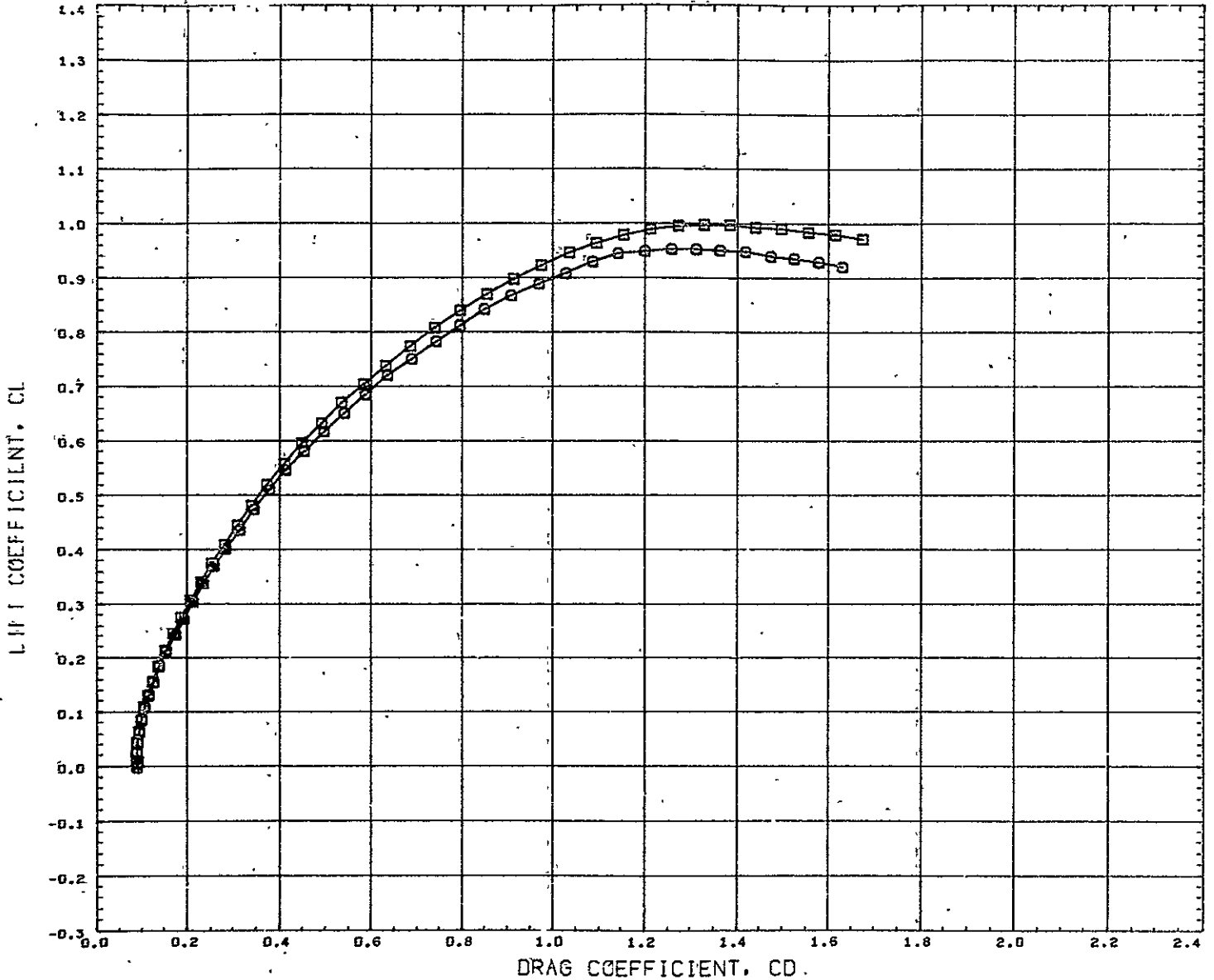
AFT SHELF EFFECT STRAIGHT AFT WING H-V TAIL, ELEVATOR = -20 DEG., INTERMEDIATE NOSE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9003)	GDHWT 247 B1W3T6-9DV3 ELEVTR = -20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9032)	GDHWT 247 B14W3T6-9DV3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 0.050

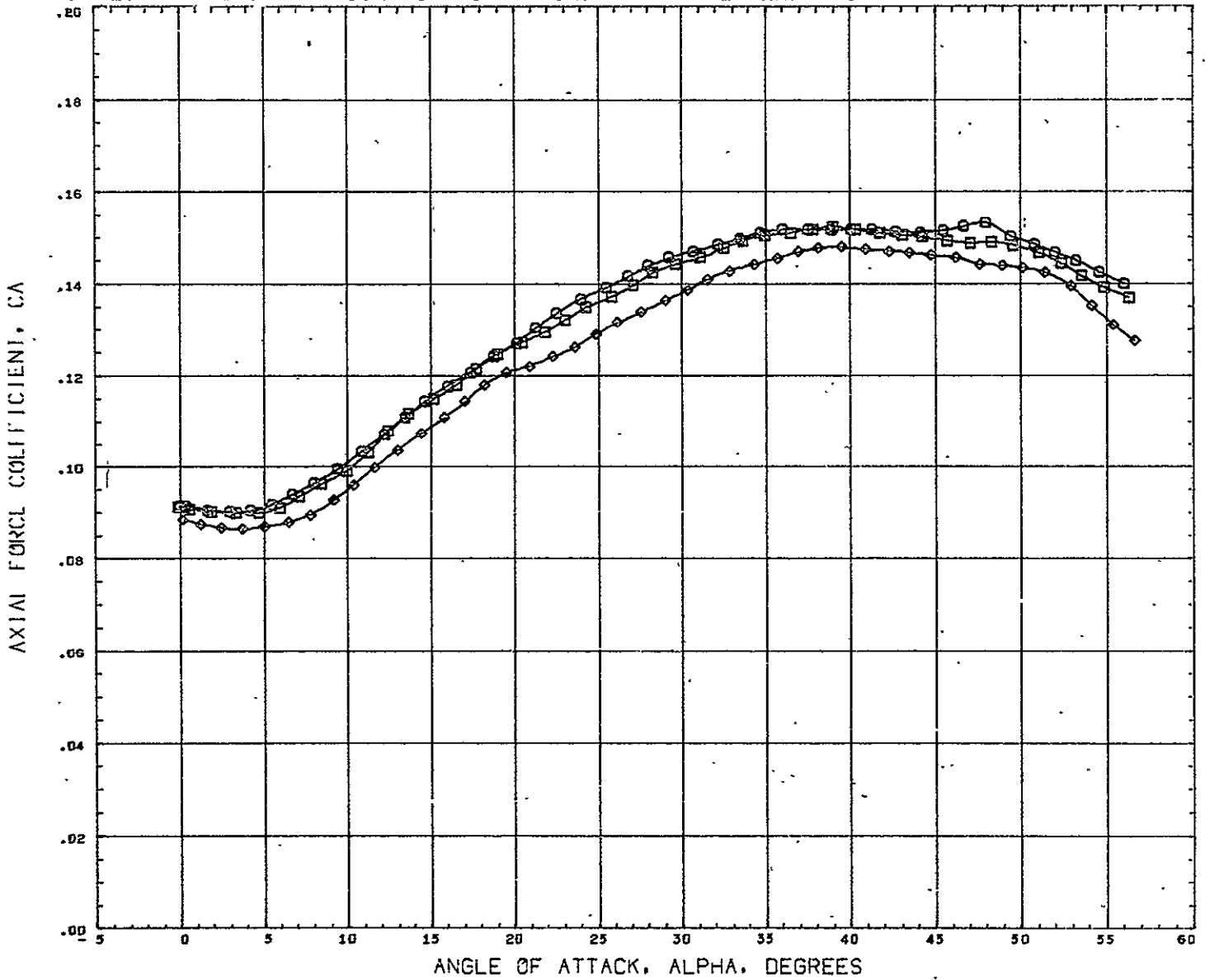
AFT SHELF EFFECT STRAIGHT AFT WING H-V TAIL, ELEVATOR = -20 DEG., INTERMEDIATE NOSE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9003)	GDHWT 247 B1W3T6-9DV3 ELEVTR = -20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9032)	GDHWT 247 B14W3T6-9DV3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 0.650

EFFECT OF WING POSITION, STRAIGHT WING, H-V TAIL, ELEVATOR = -20 DEG.

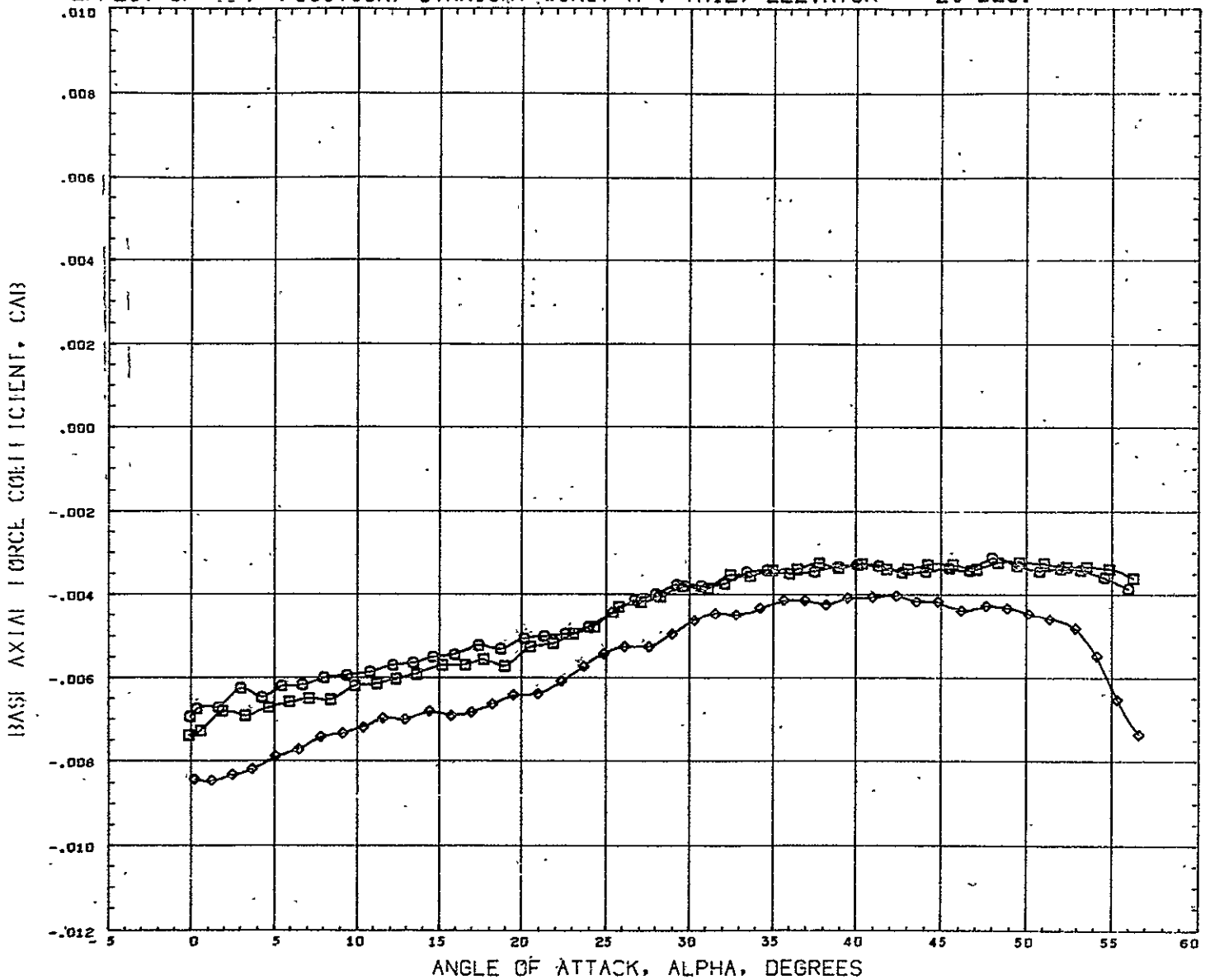


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9005)	GDHWT 247 B1W2T6-90V3 ELEVTR =-20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9006)	GDHWT 247 B1W1T6-90V3 ELEVTR =-20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9003)	GDHWT 247 B1W3T6-90V3 ELEVTR =-20 AILRON = 0		REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050



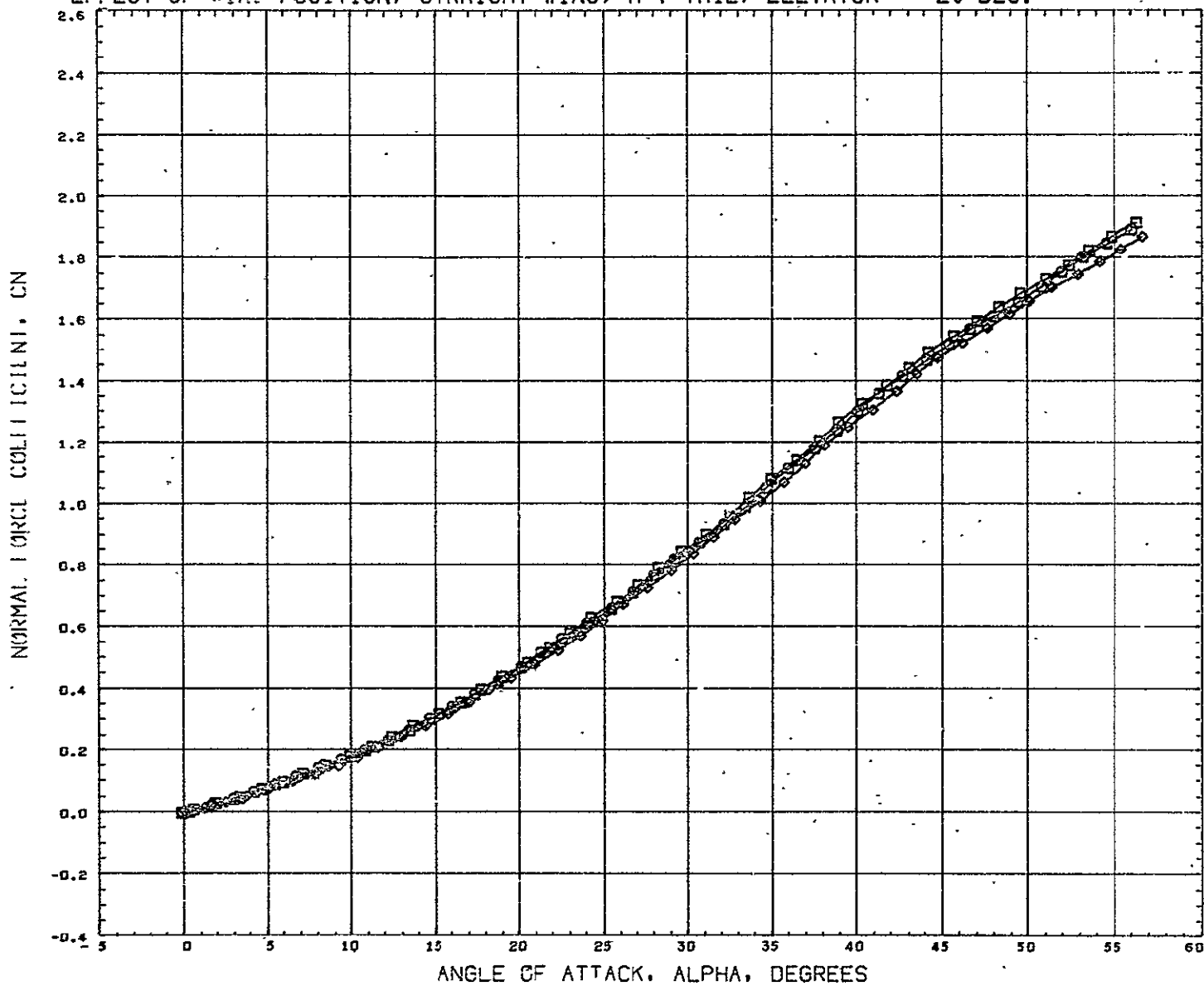
EFFECT OF WING POSITION, STRAIGHT WING, H-V TAIL, ELEVATOR = -20 DEG.



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9005)	GDHWT 247 B1W2T6-90V3	ELEVTR = -20 AILRON = 0 BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9006)	GDHWT 247 B1W1T6-90V3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0386 IN
(RC9003)	GDHWT 247 B1W3T6-90V3	ELEVTR = -20 AILRON = 0	REFB 1.4700 IN
			XHRF 6.2920 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 8.050

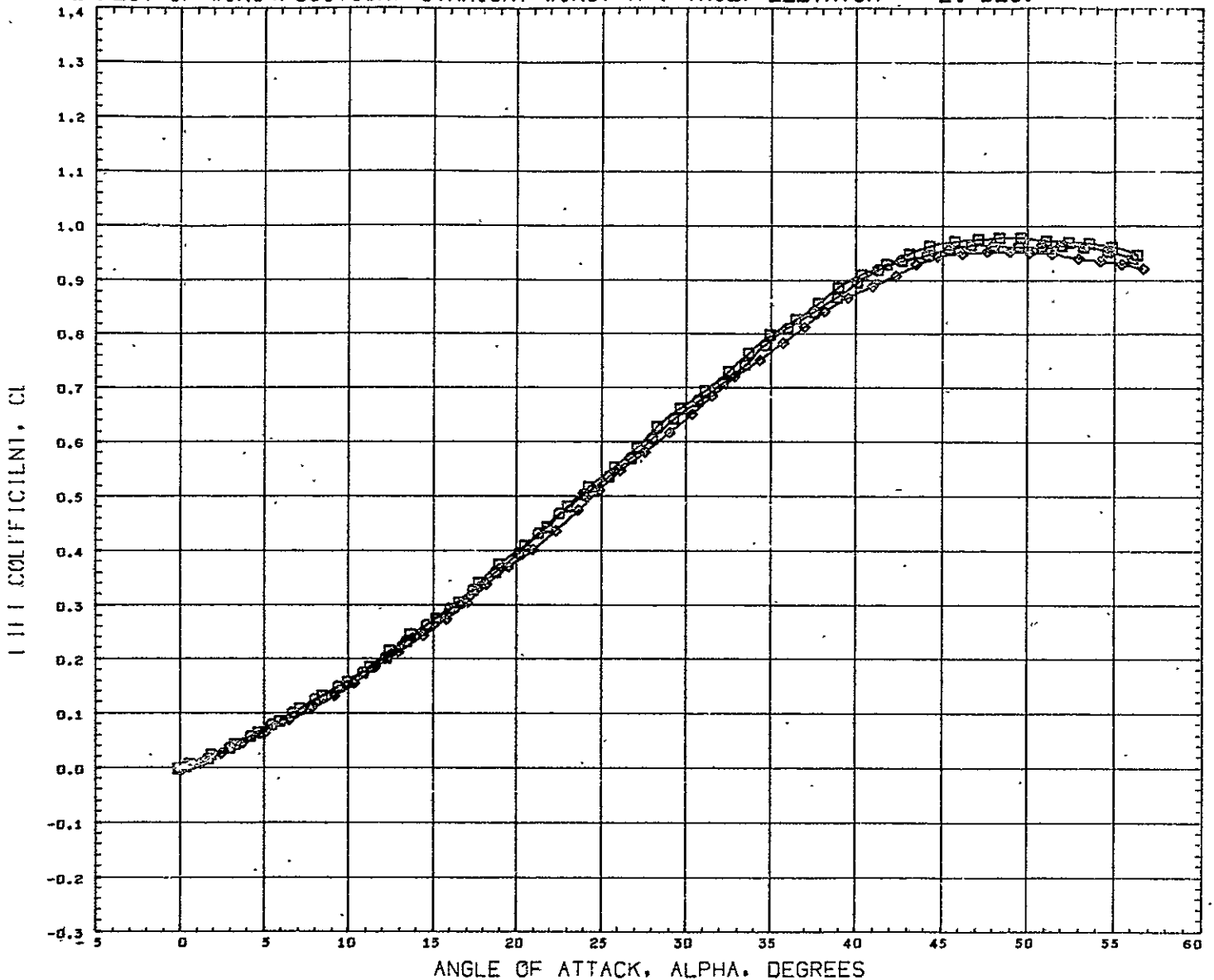
EFFECT OF WING POSITION; STRAIGHT WING, H-V TAIL, ELEVATOR = -20 DEG.



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9005)	GDHWT 247 B1W2T6-90V3 ELEVTR =-20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9006)	GDHWT 247 B1W3T6-90V3 ELEVTR =-20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0300 IN
(RC9003)	GDHWT 247 B1W3T6-90V3 ELEVTR =-20 AILRON = 0		REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

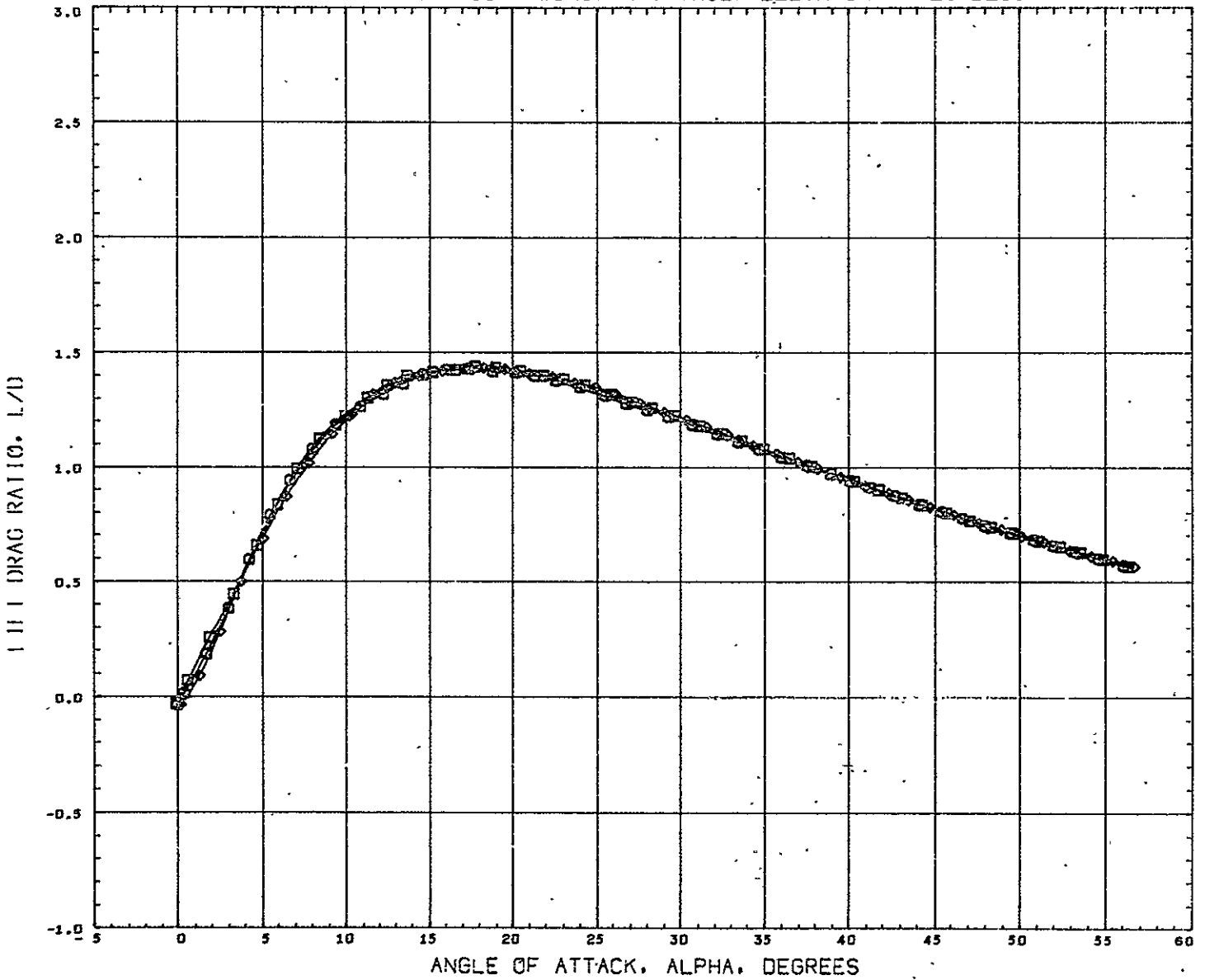
EFFECT OF WING POSITION, STRAIGHT WING, H-V TAIL, ELEVATOR = -20 DEG.



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9005)	GDHWT 247 B1W2T6-90V3 ELEVTR = -20 AILRON = G	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9006)	GDHWT 247 B1W1T6-30V3 ELEVTR = -20 AILRON = C	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9003)	GDHWT 247 B1W3T6-90V3 ELEVTR = -20 AILRON = 0		REFB 1.4700 IN
			XHRF 6.2920 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 0.650

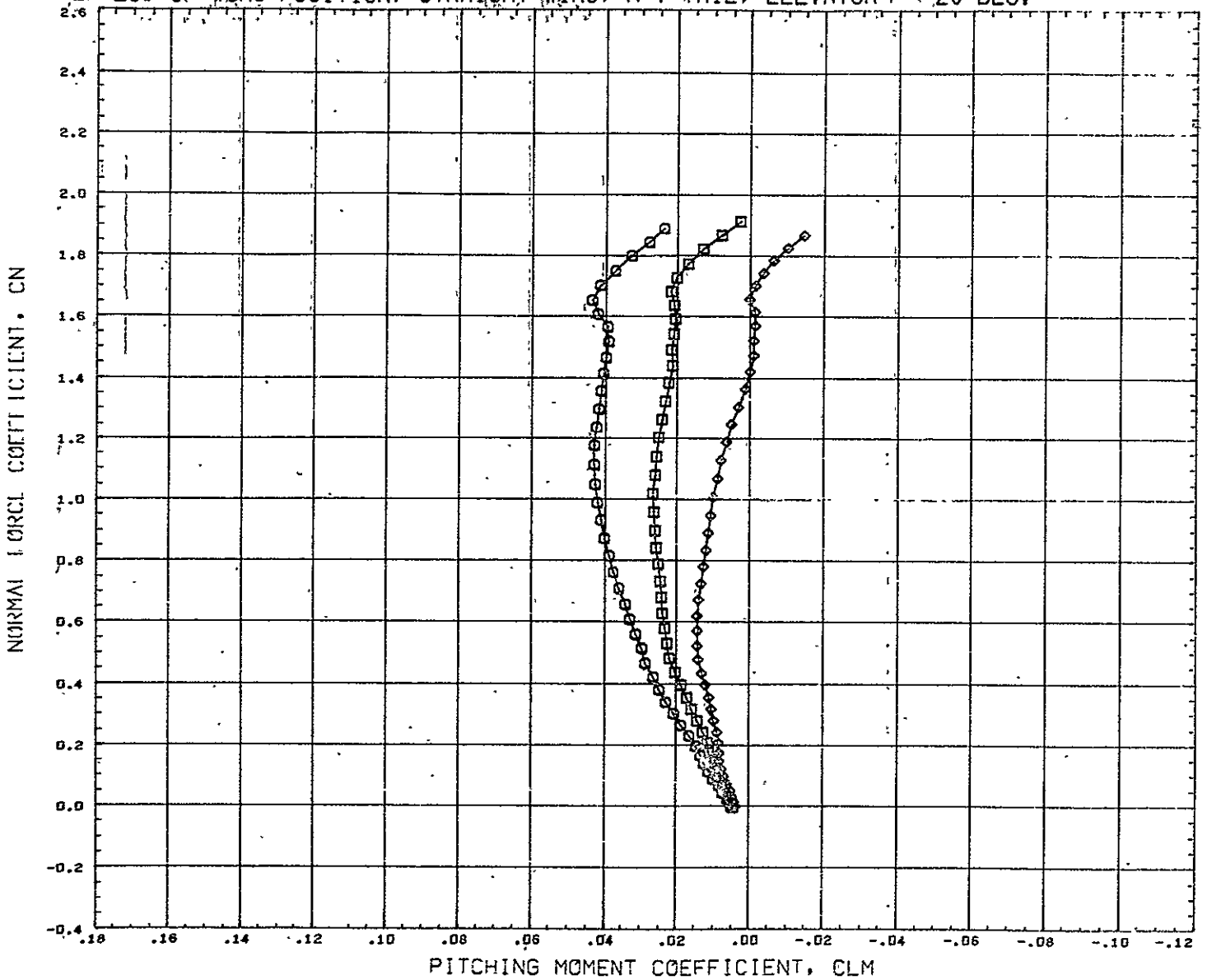
EFFECT OF WING POSITION, STRAIGHT WING, H-V TAIL, ELEVATOR = -20 DEG.



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9005)	GDHWT 247 B1W2T6-90V3	ELEVTR = -20 AILRON = 0 BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9006)	GDHWT 247 B1W1T6-90V3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9003)	GDHWT 247 B1W3T6-90V3	ELEVTR = -20 AILRON = 0	REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 0.950

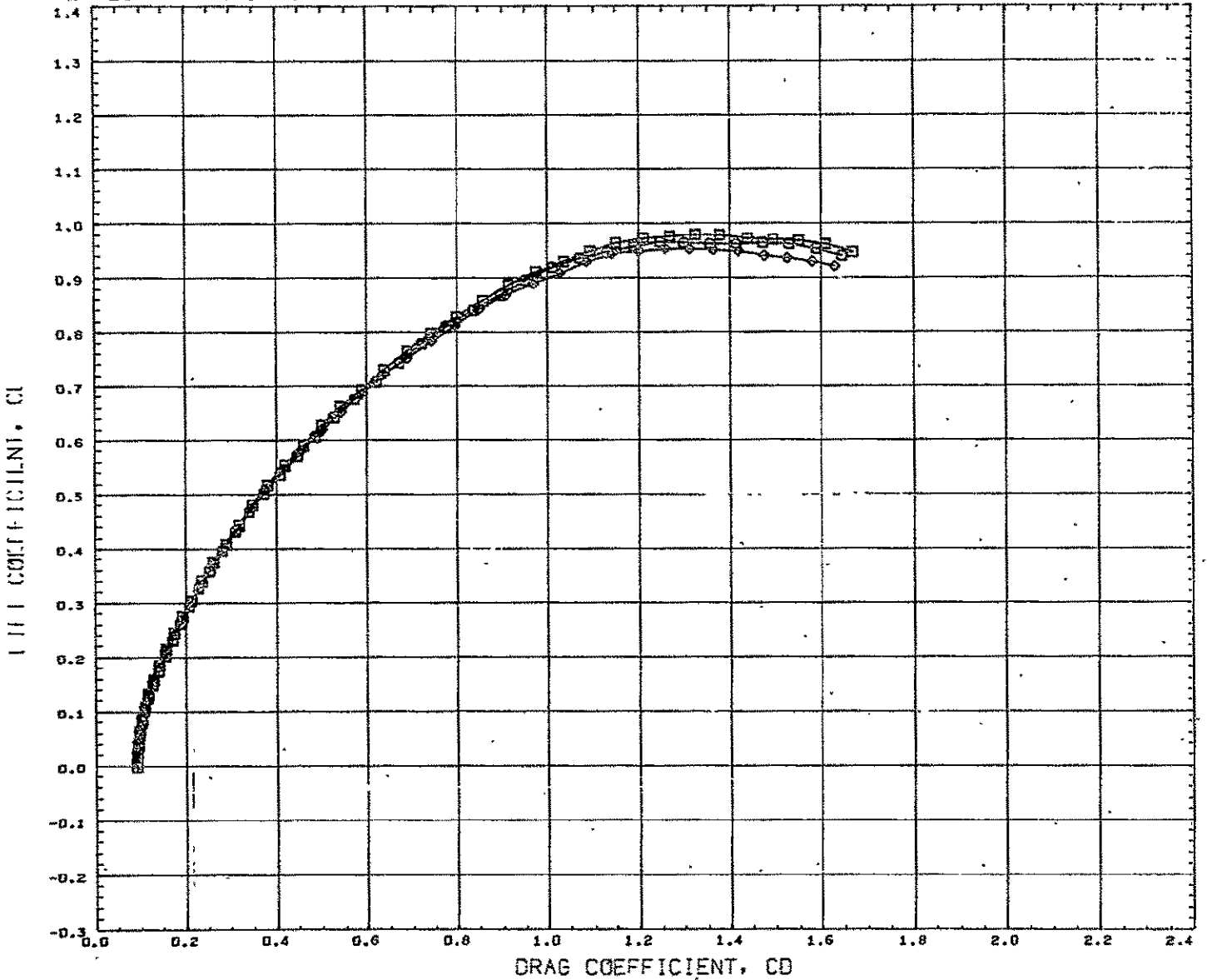
EFFECT OF WING POSITION, STRAIGHT WING, H-V TAIL, ELEVATOR = -20 DEG.



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9005)	GDHWT 247 B1W2T6-90V3 ELEVTR = -20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9006)	GDHWT 247 B1W1T6-90V3 ELEVTR = -20 AILRON = 0	RODDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9007)	GDHWT 247 B1W3T6-90V3 ELEVTR = -20 AILRON = 0		REFB 1.4705 IN
			XHRF 6.2920 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 8.050

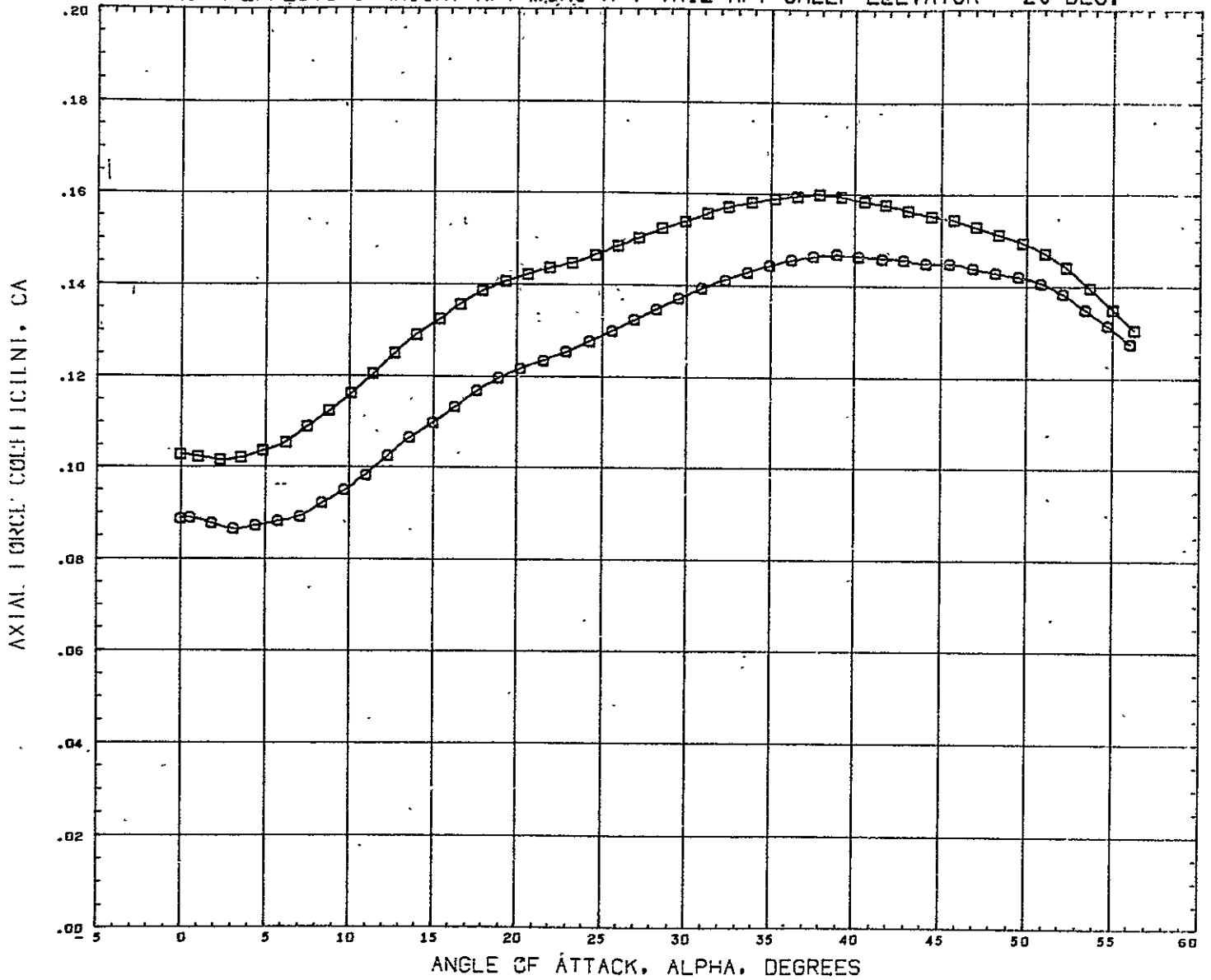
EFFECT OF WING POSITION, STRAIGHT WING, H-V TAIL, ELEVATOR = -20 DEG.



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9005)	GDHWT 247 B1W2T6-90V3 ELEVTR =-20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9006)	GDHWT 247 B1W1T6-90V3 ELEVTR =-20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9003)	GDHWT 247 B1W3T6-90V3 ELEVTR =-20 AILRON = 0		REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

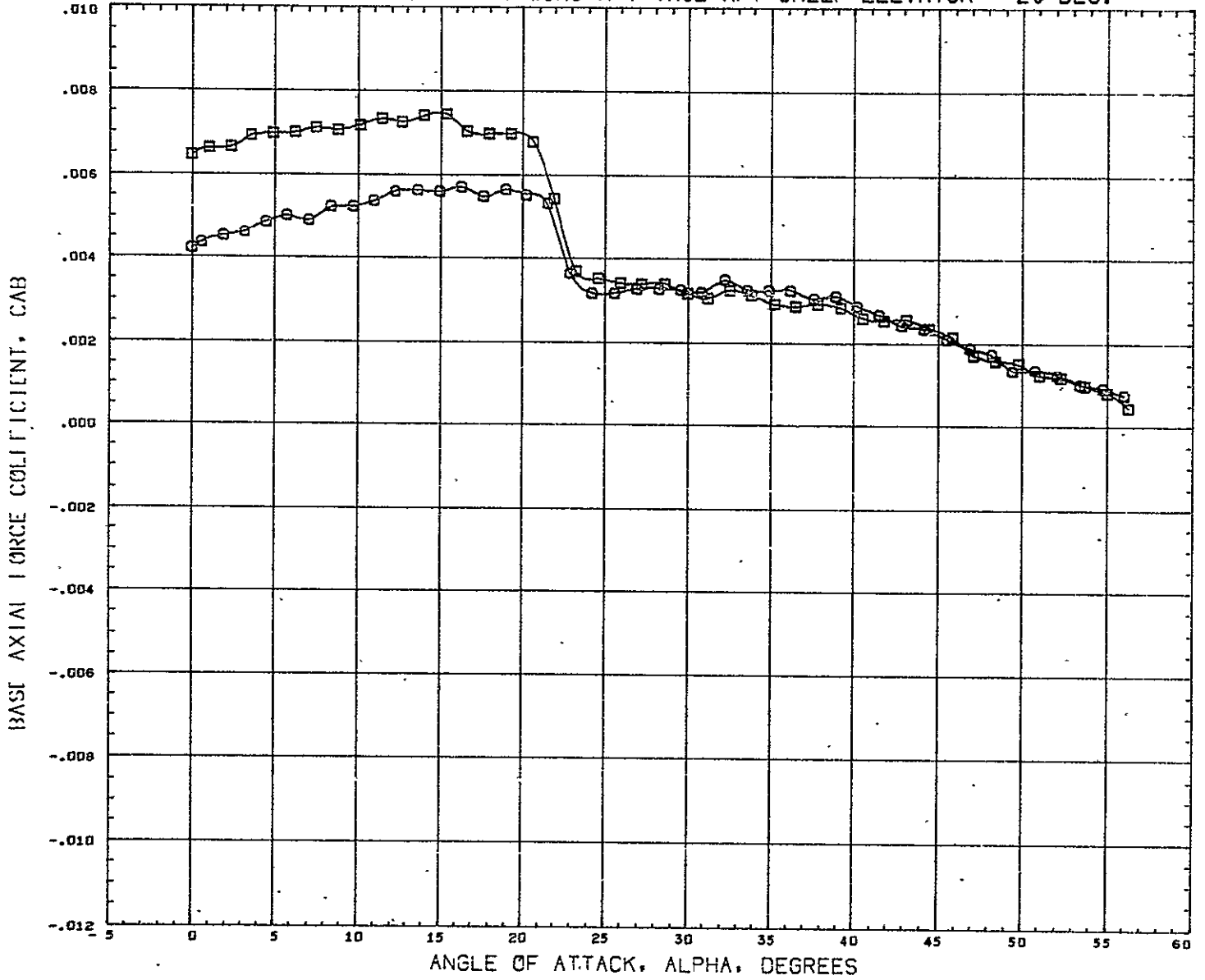
NOSE LENGTH EFFECTS STRAIGHT AFT WING H-V TAIL AFT SHELF ELEVATOR = -20 DEG.



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9032)	(C) GDHWT 247 B14W3T6-95V3 ELEVTR = -20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9031)	(C) GDHWT 247 B15W3T6-33V3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XHRP 6.2920 IN
			YHRP 0.0000 IN
			ZHRP 0.0000 IN
			SCALE 0.0035

MACH 8.550

NOSE LENGTH EFFECTS STRAIGHT AFT WING H-V TAIL AFT SHELF ELEVATOR = -20 DEG.

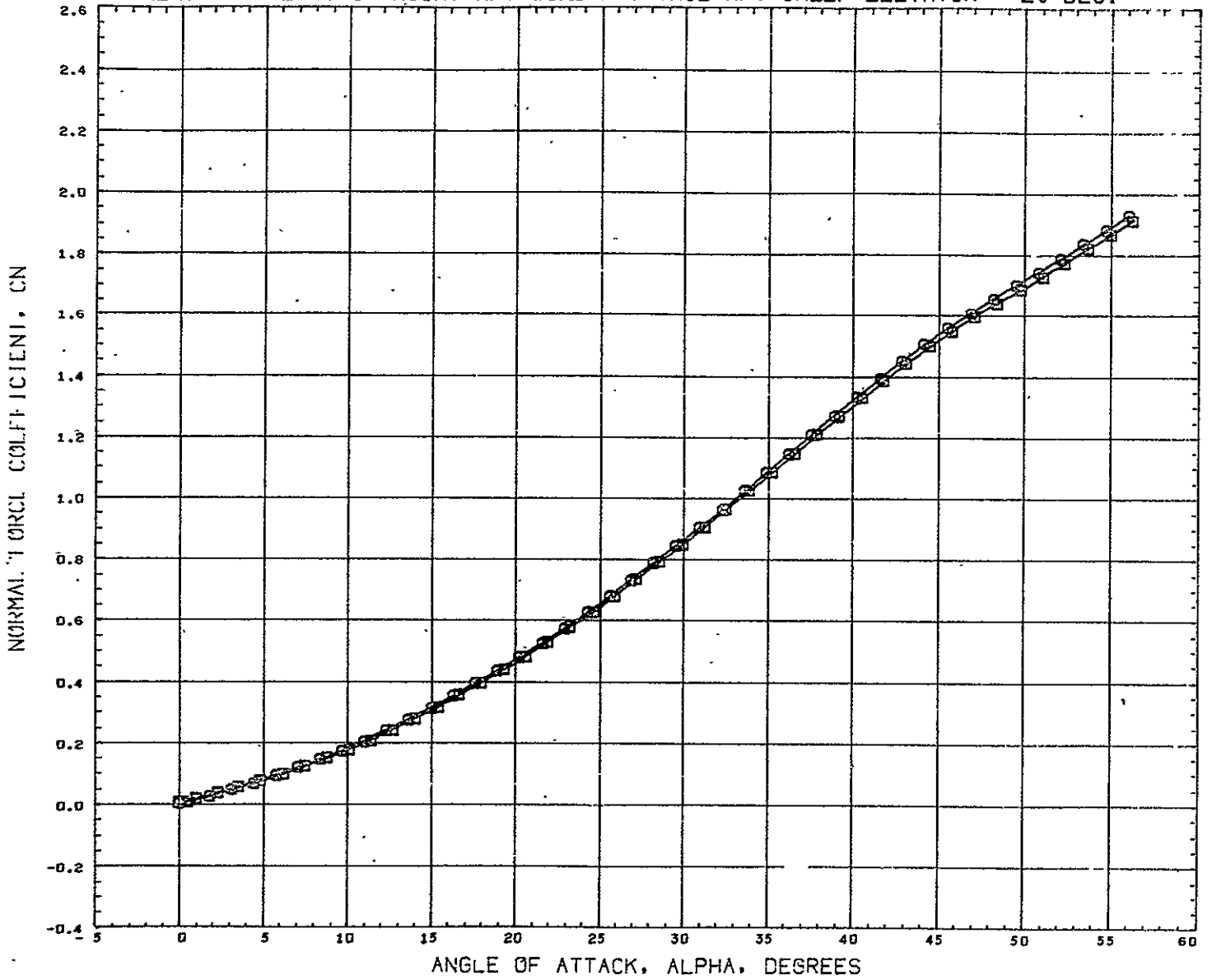


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9032)	GDHWT 247 B14W3T6-9DV3	ELEVTR = -20 AILRON = 0 BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9031)	GDHWT 247 B15W3T6-9DV3	ELEVTR = -20 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XNRP 6.2920 IN
			YNRP 0.0000 IN
			ZNRP 0.0000 IN
			SCALE 0.0035

MACH 0.050



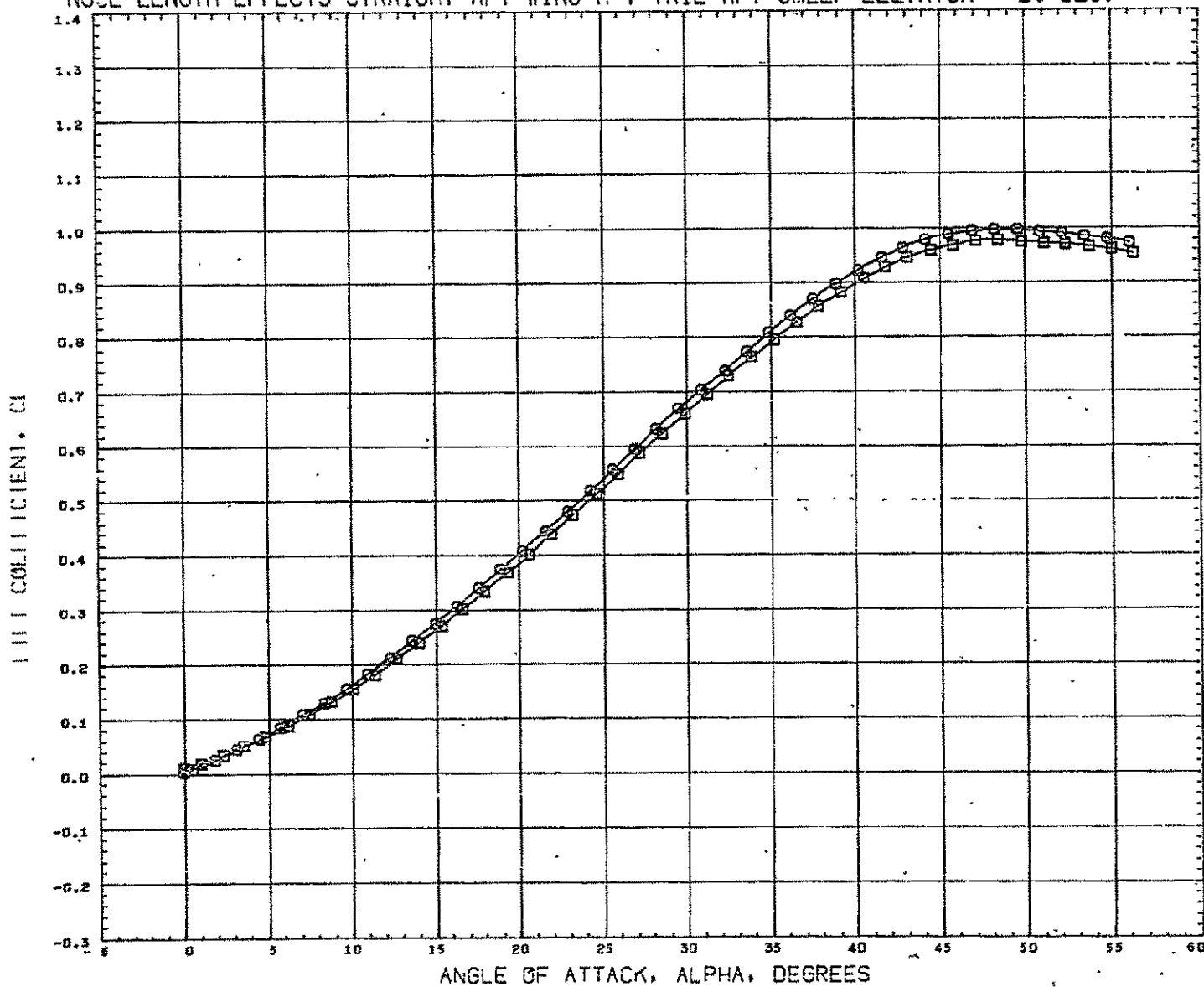
NOSE LENGTH EFFECTS STRAIGHT AFT WING H-V TAIL AFT SHELF ELEVATOR = -20 DEG.



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9032)	GDHWT 247 B14W3T6-90V3 ELEVTR = -20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9031)	GDHWT 247 B15W3T6-90V3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XNRF 6.2920 IN
			YNRF 0.0000 IN
			ZNRF 0.0000 IN
			SCALE 0.0035

MACH 8.050

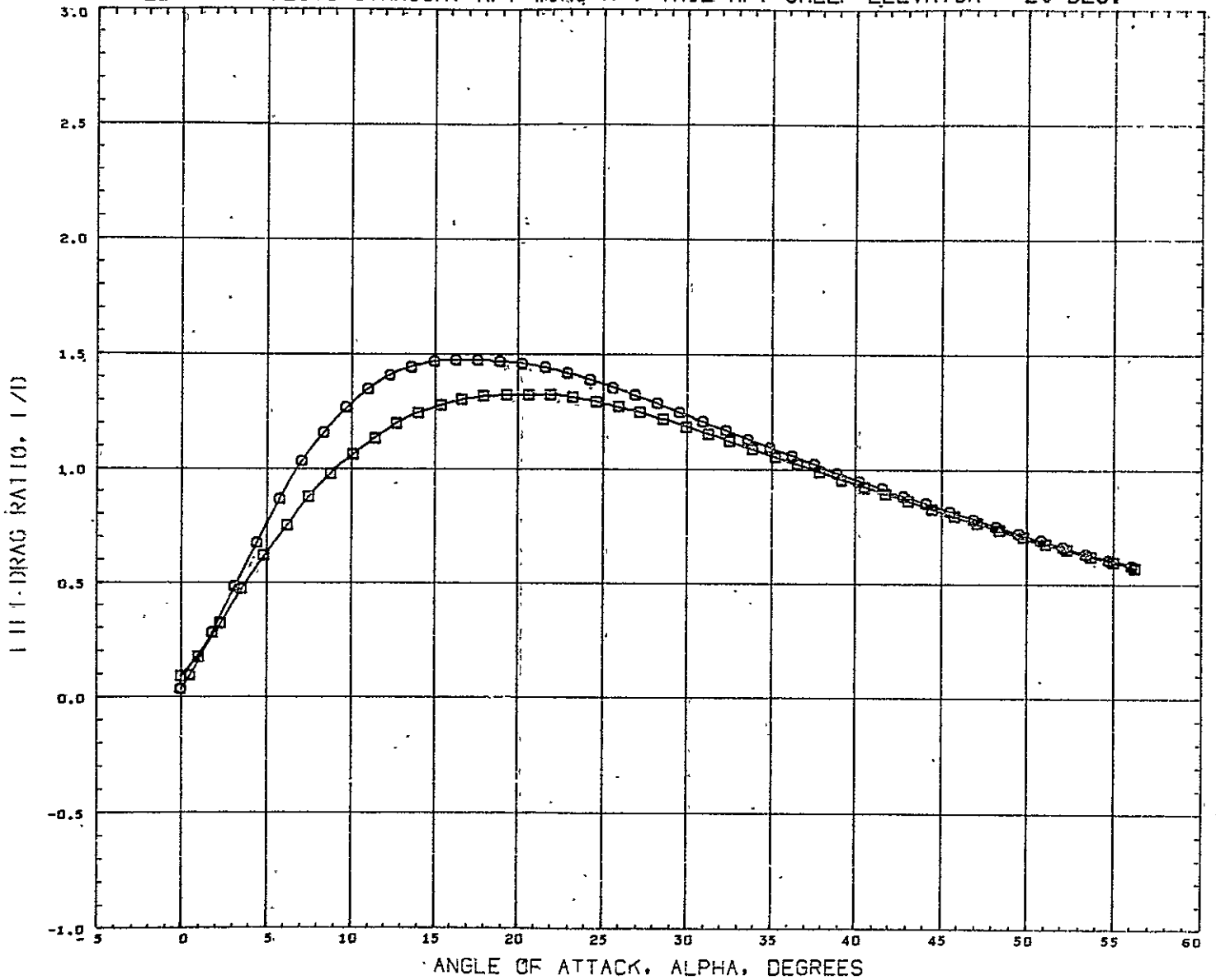
NOSE LENGTH EFFECTS STRAIGHT AFT WING H-V TAIL AFT SHELF ELEVATOR = -20 DEG.



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9032)	GDHWT 247 B14W376-90V3 ELEVTR = -20 AILRON = 0	dETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9031)	GDHWT 247 B15W376-90V3 ELEVTR = -20 AILRON = 0	ROUNDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YNRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

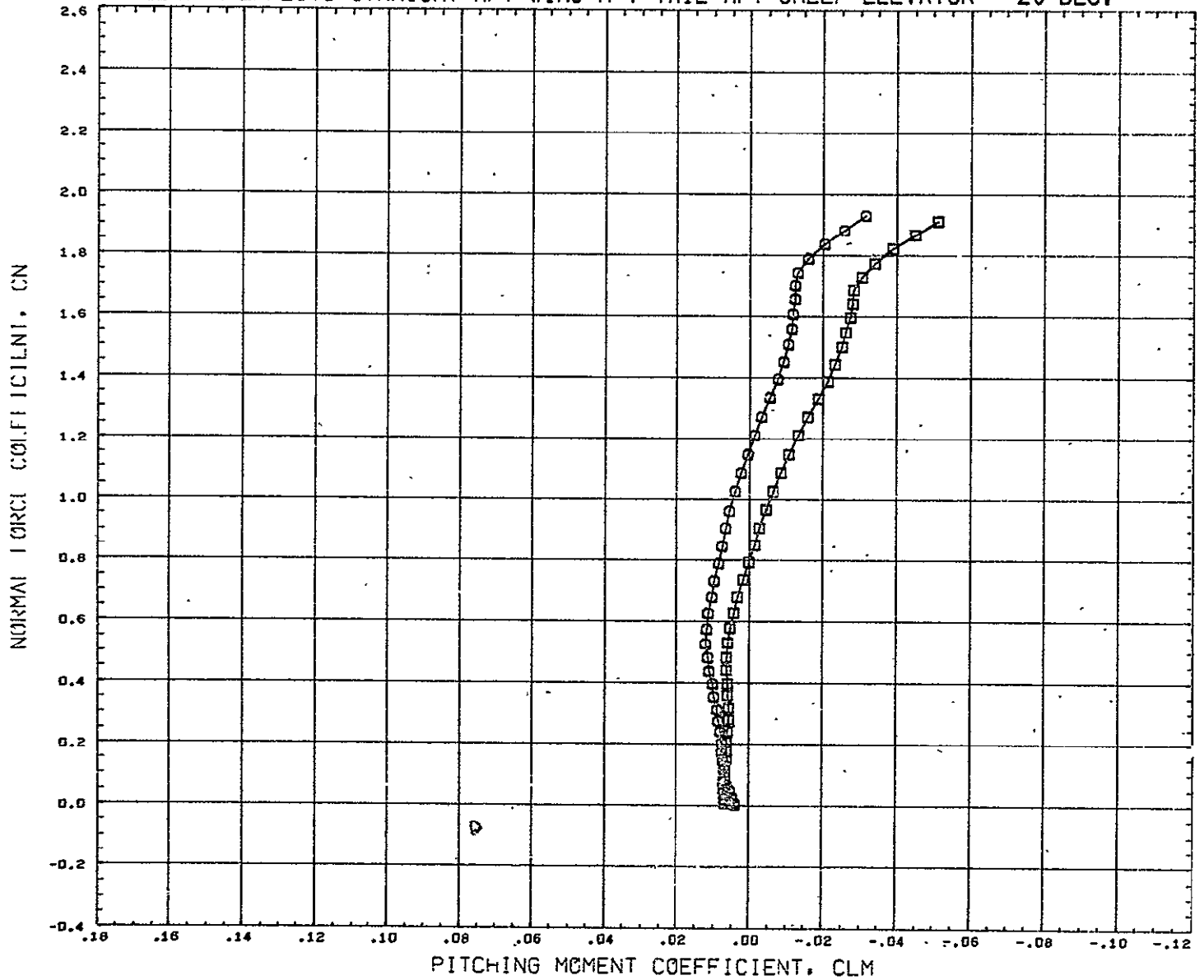
NOSE LENGTH EFFECTS STRAIGHT AFT WING H-V TAIL AFT SHELF ELEVATOR = -20 DEG.



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9032)	GDHWT 247 R14W3T6-9DV3 ELEVTR = -20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN <sup>2</sup>
(RC9031)	GDHWT 247 B15W3T6-9DV3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

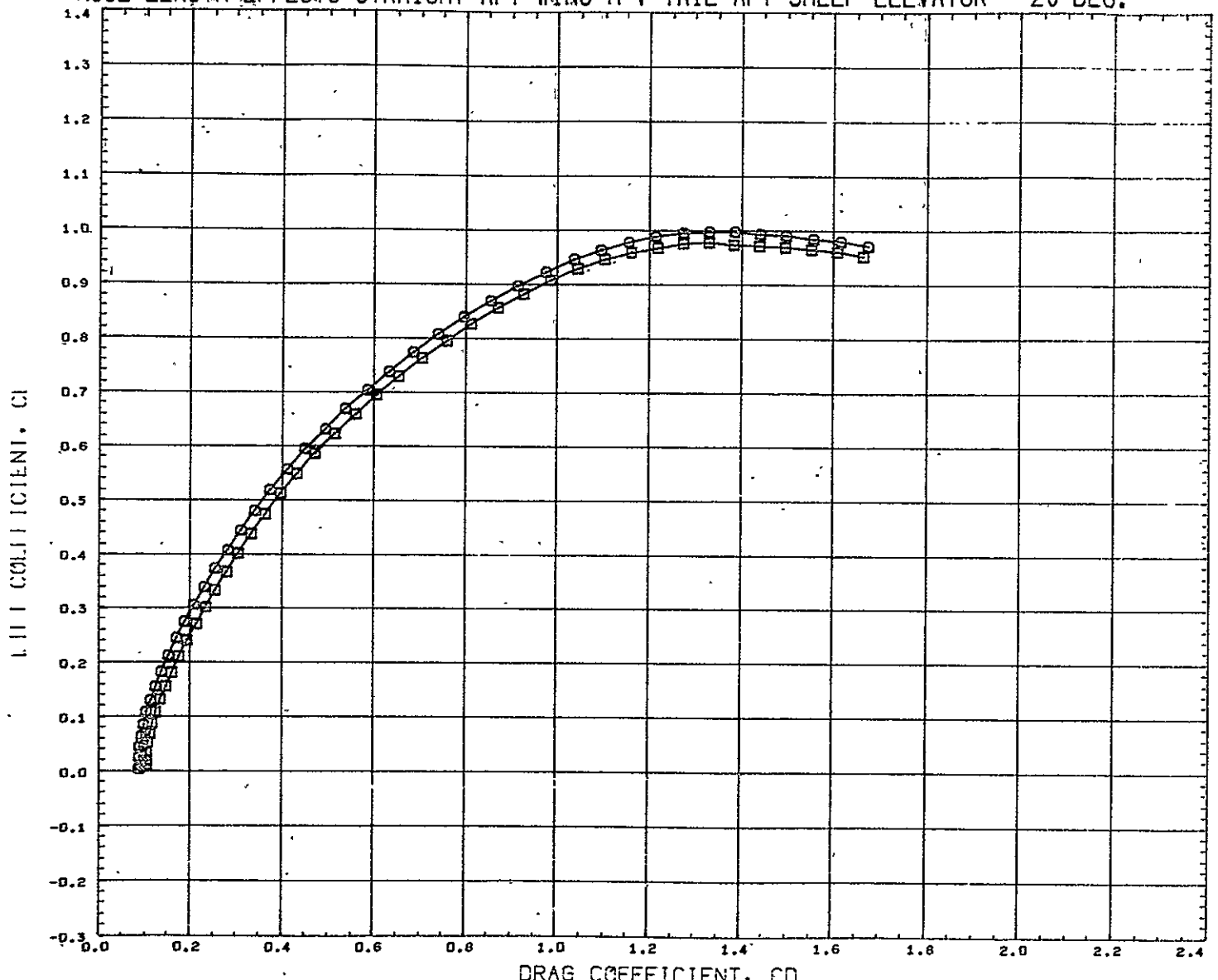
NOSE LENGTH EFFECTS STRAIGHT AFT WING H-V TAIL AFT SHELF ELEVATOR = -20 DEG.



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9032)	GDHWT 247 B14W3T6-9DV3 ELEVTR = -20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9031)	GDHWT 247 B15W3T6-9DV3 ELEVTR = -25 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZHRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

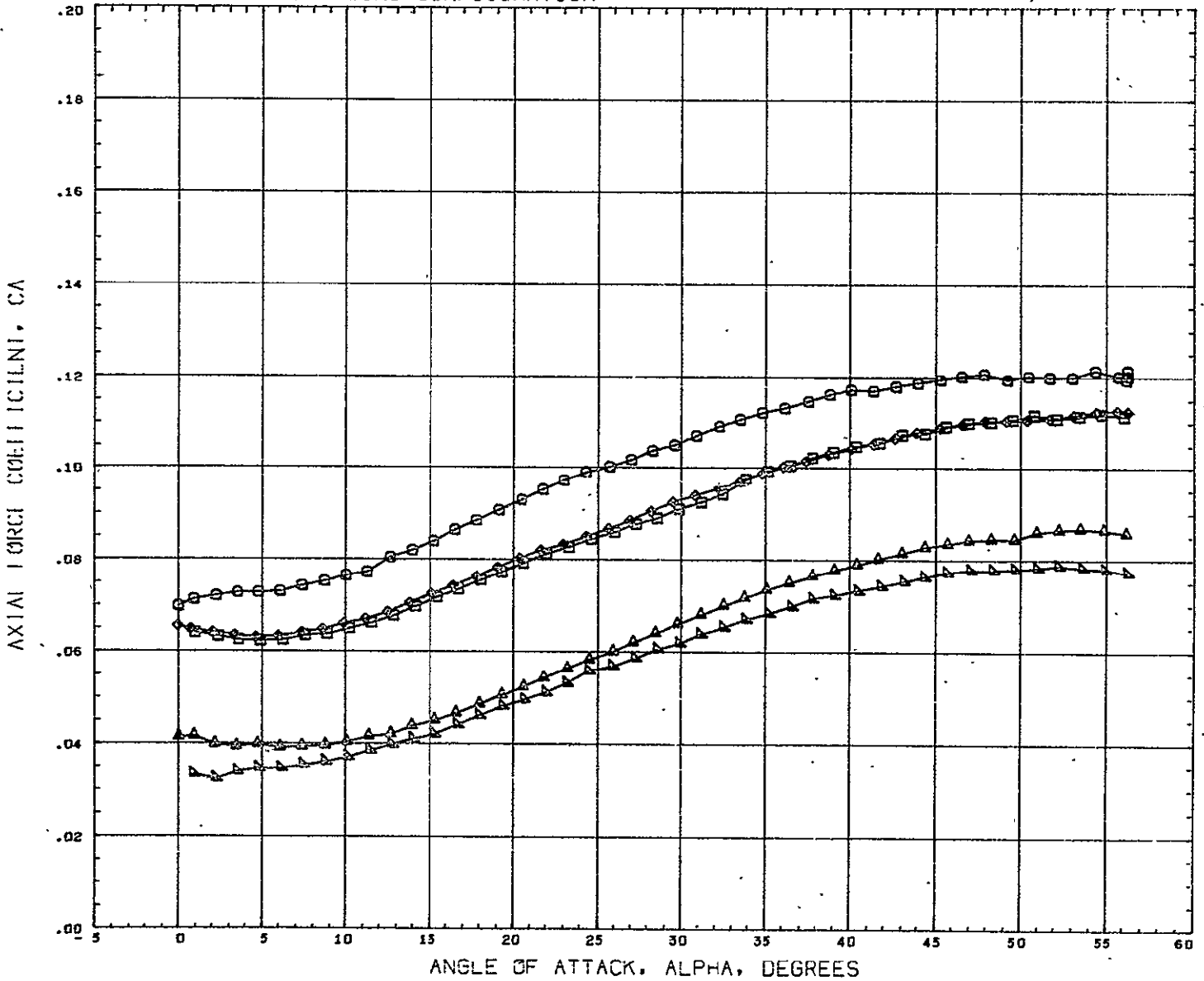
NOSE LENGTH EFFECTS STRAIGHT AFT WING H-V TAIL AFT SHELF ELEVATOR = -20 DEG.



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9032)	GDHWT 247 B14W3T6-90V3 ELEVTR = -20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9031)	GDHWT 247 B15W3T6-90V3 ELEVTR = -20 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

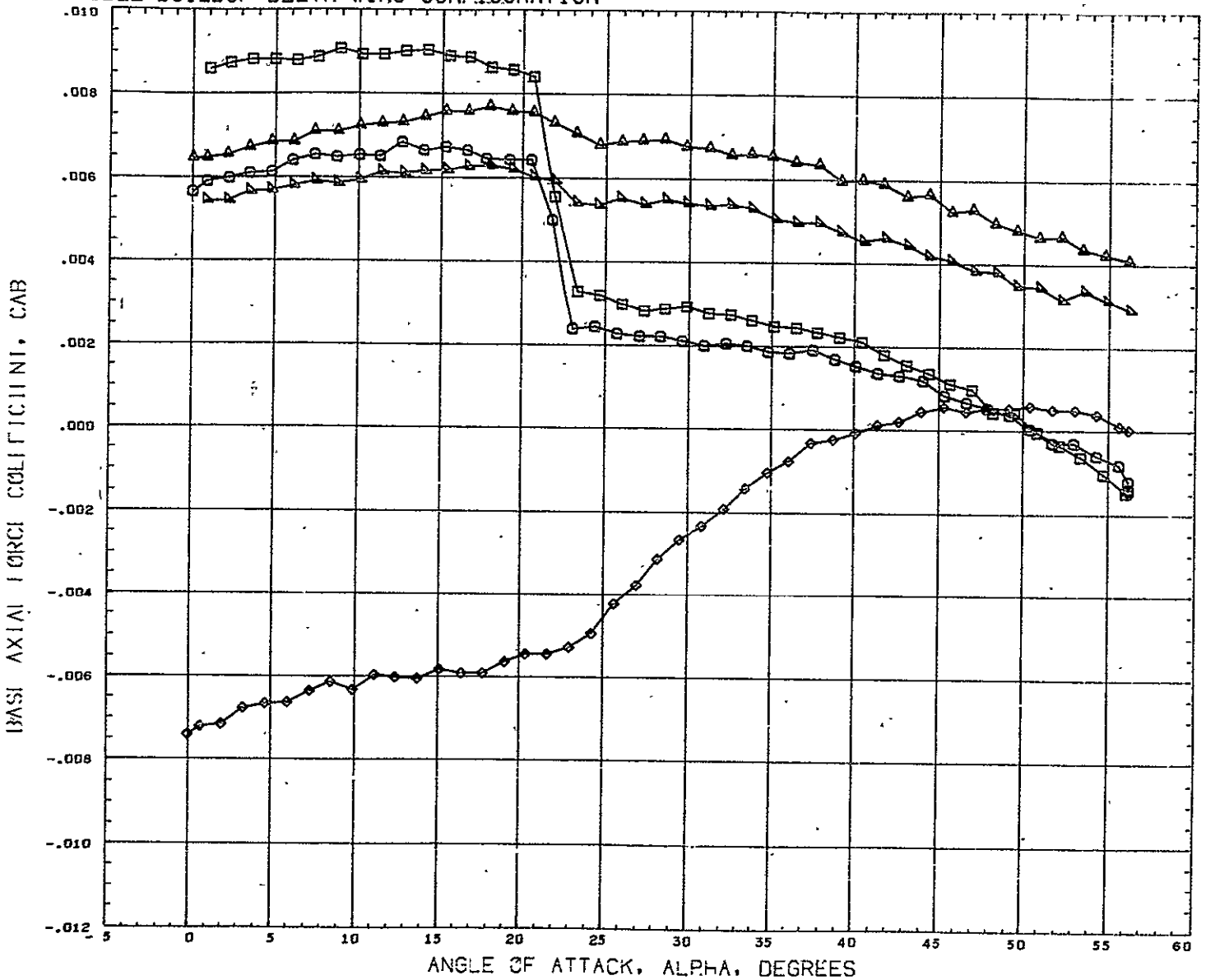
# MODEL BUILDUP DELTA WING CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES				REFERENCE INFORMATION				
(RC9026)	GDHWT 247 B7WSV3E7	ELEVTR = 0	AILRON = 0	BETA	0.000	ELEVTR	0.000	REFS	12.6740	IN2
(RC9027)	GDHWT 247 B7WSV3	ELEVTR = 0	AILRON = 0	RUDDER	0.000	AILRON	0.000	REFL	10.0380	IN
(BC9019)	GDHWT 247 B7WSV3	ELEVTR = 0	AILRON = 0					REFB	1.4700	IN
(RC9025)	GDHWT 247 B7V3							XMRP	6.4000	IN
(RC9026)	GDHWT 247 B7							YMRP	0.0000	IN
								ZMRP	0.0000	IN
								SCALE	0.0035	

MACH 8.050

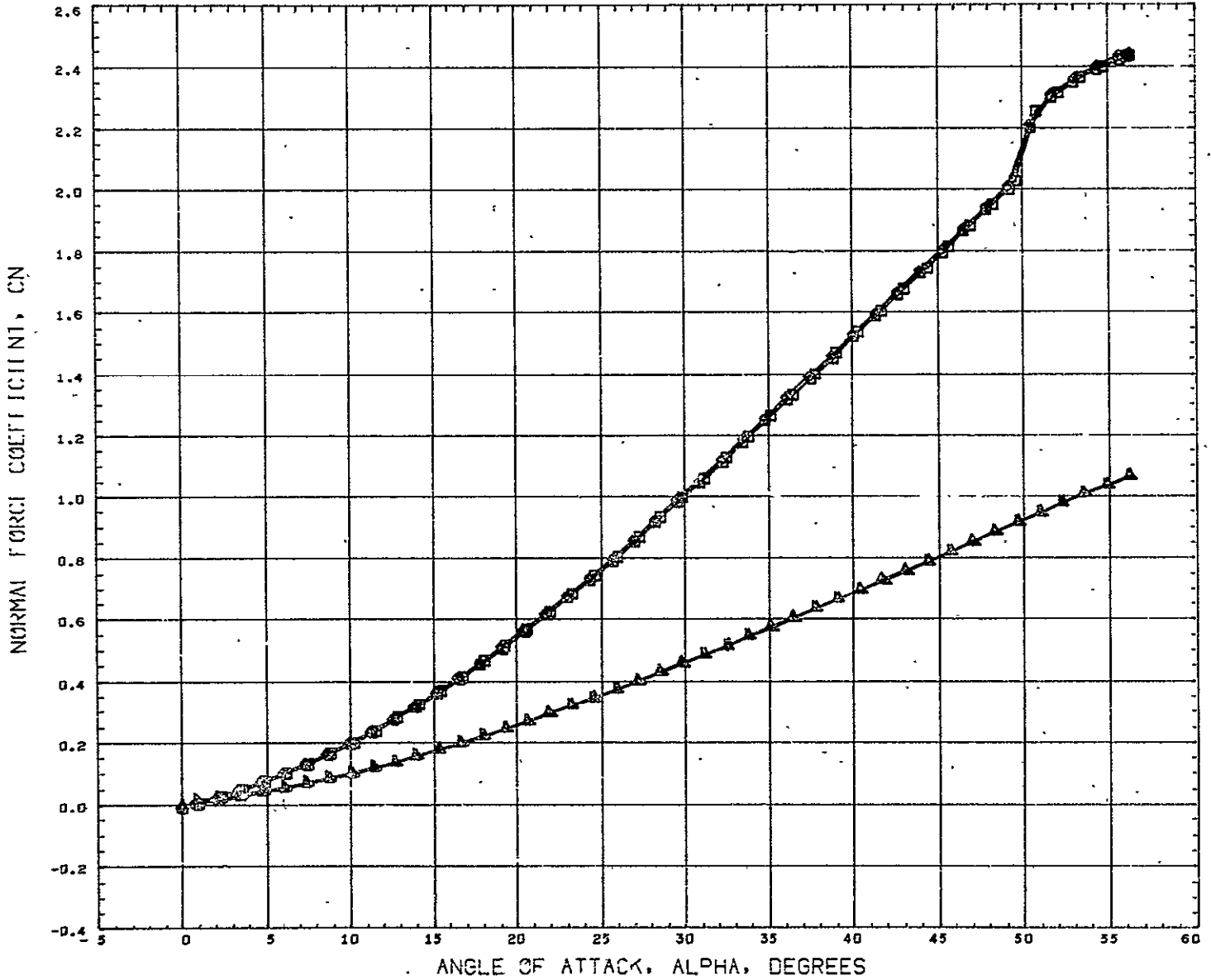
# MODEL BUILDUP DELTA WING CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9028)	GDHWT 247 B7WSV3E7	ELEVTP = 0 AILRON = 0 BFTA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9027)	GDHWT 247 B7WSV3	ELEVTR = 0 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(BC9019)	GDHWT 247 B7WSV3	ELEVTR = 0 AILRON = 0	REFB 1.4760 IN
(RC9025)	GDHWT 247 B7V3		XMRP 8.4000 IN
(RC9026)	GDHWT 247 B7		YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.056

# MODEL BUILDUP DELTA WING CONFIGURATION

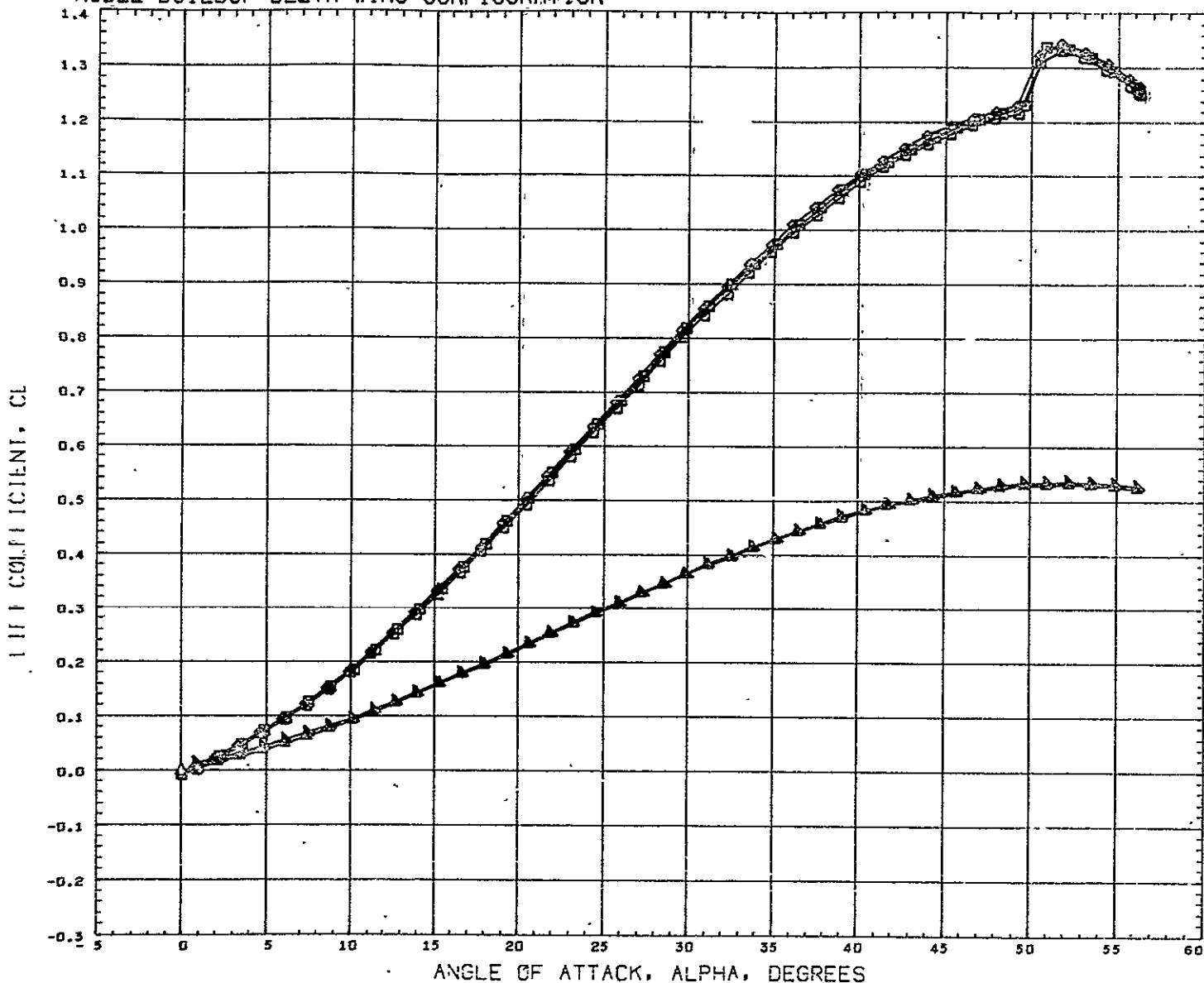


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9028)	GDHWT 247 B7W5V3E7	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9027)	GDHWT 247 B7W5V3	ELEVTR = C AILRON = 0 RUBBER 0.000 AILRON 0.000	REFL 10.0380 IN
(BC9519)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0	REFB 1.4700 IN
(RC9025)	GDHWT 247 B7V3		XMRP 6.4000 IN
(RC9026)	GDHWT 247 B7		YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.950

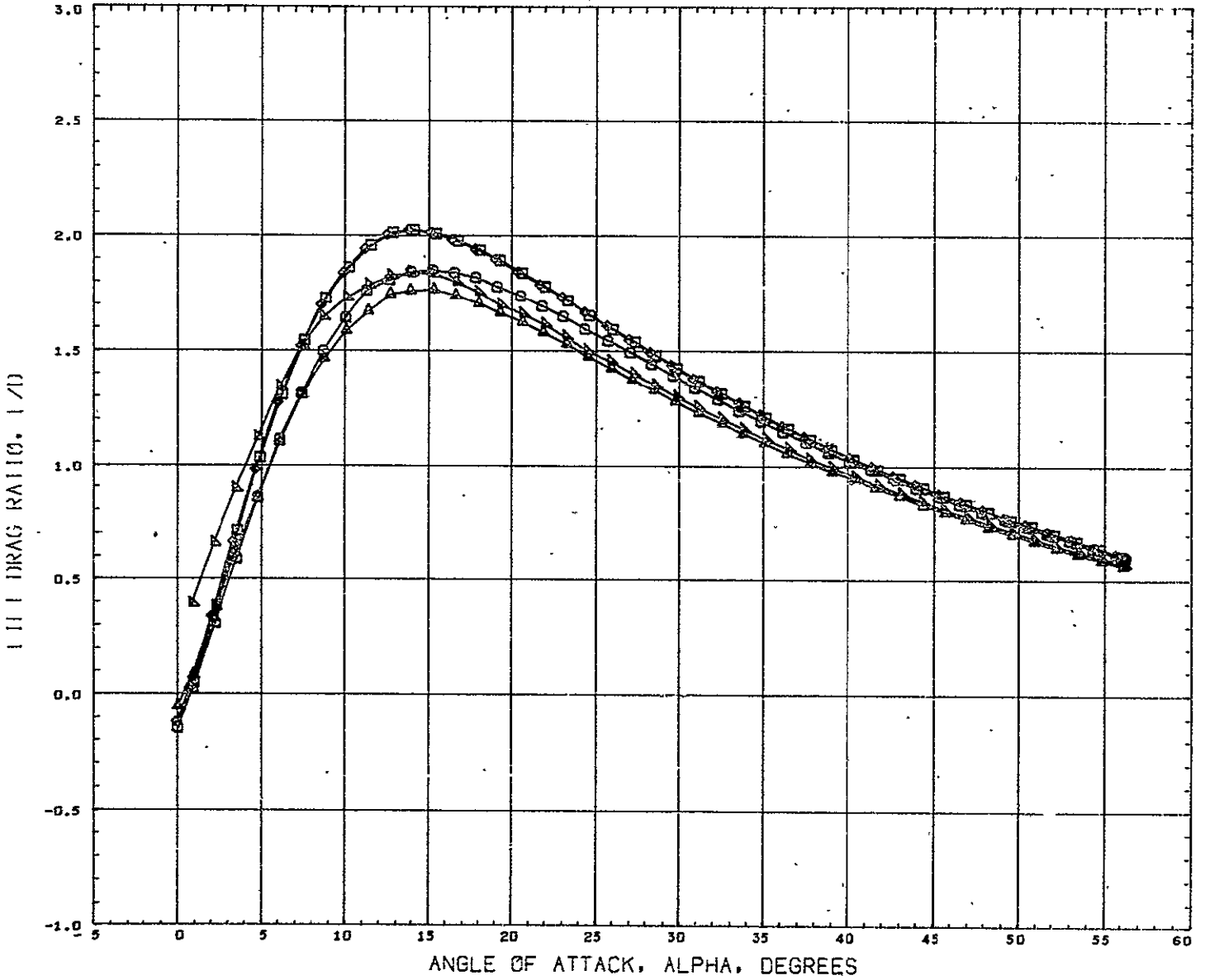


# MODEL BUILDUP DELTA WING CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9028)	GDHWT 247 B7W5V3E7	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9027)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0 RUODER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9019)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0	REFB 1.4700 IN
(RC9025)	GDHWT 247 B7V3		XMRP 6.4000 IN
(RC9026)	GDHWT 247 B7		YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035
MACH 8.050			

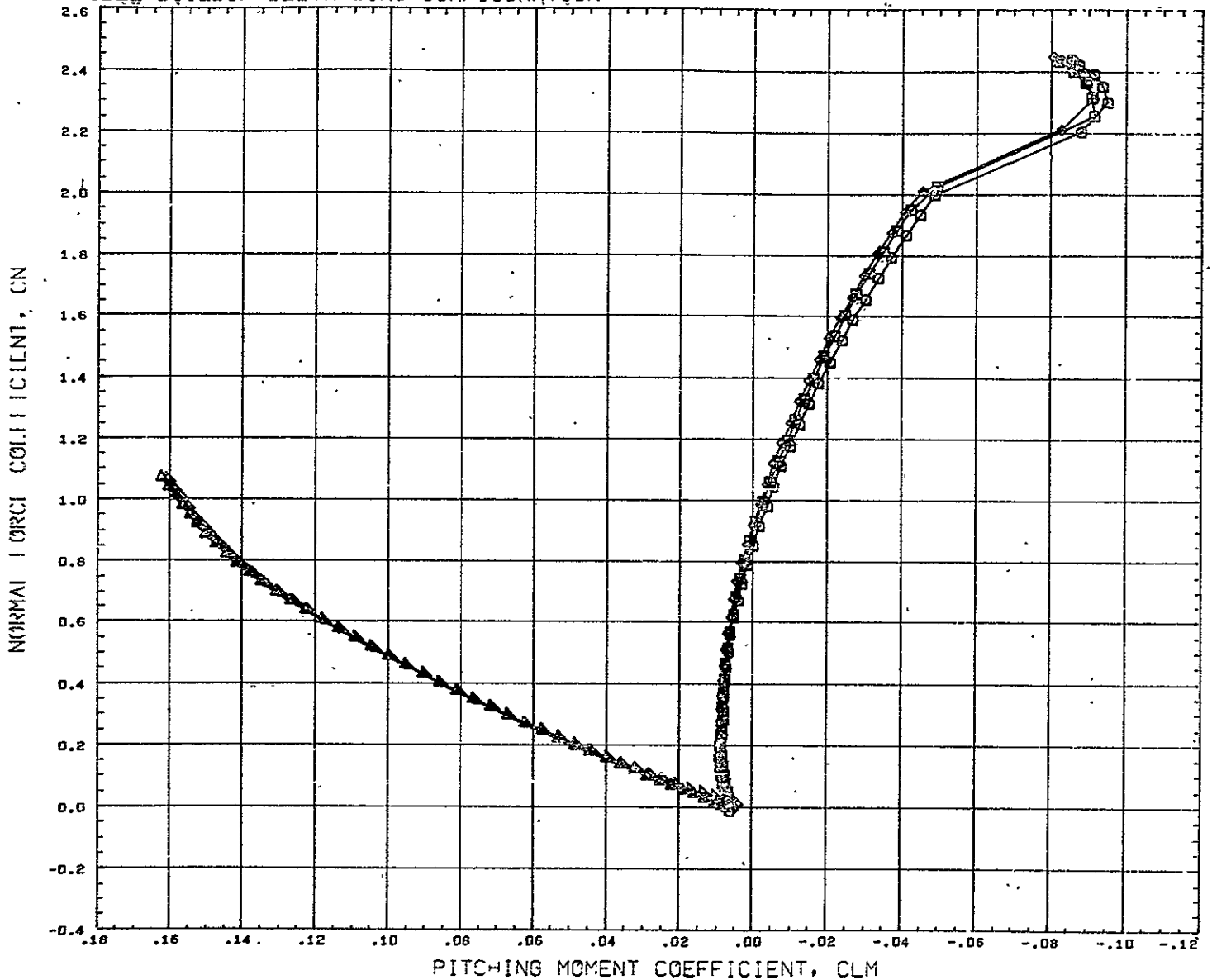
# MODEL BUILDUP DELTA WING CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9028)	GDHWT 247 B7W5V3E*	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9027)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(BC9019)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0	REFB 1.4700 IN
(RC9025)	GDHWT 247 B7V3		XMRP 6.4000 IN
(RC9026)	GDHWT 247 B7		YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

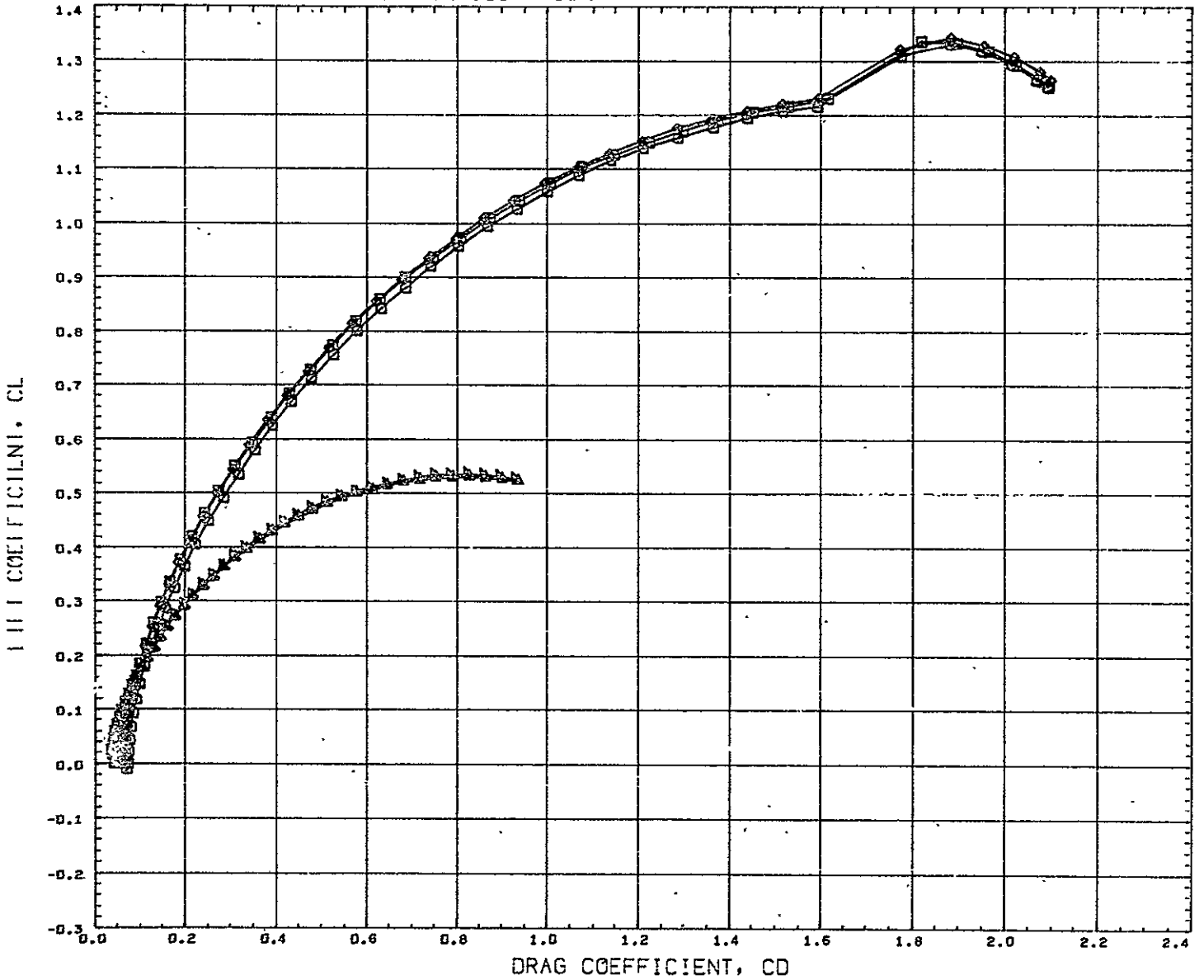
MACH 8.050

# MODEL BUILDUP DELTA WING CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RG9028)	GDHWT 247 B7W5V3E7	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9027)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(SC9019)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0	REFB 1.4700 IN
(RC9025)	GDHWT 247 B7V3		XMRP 6.4000 IN
(RC9026)	GDHWT 247 B7		YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035
MACH	8.050		

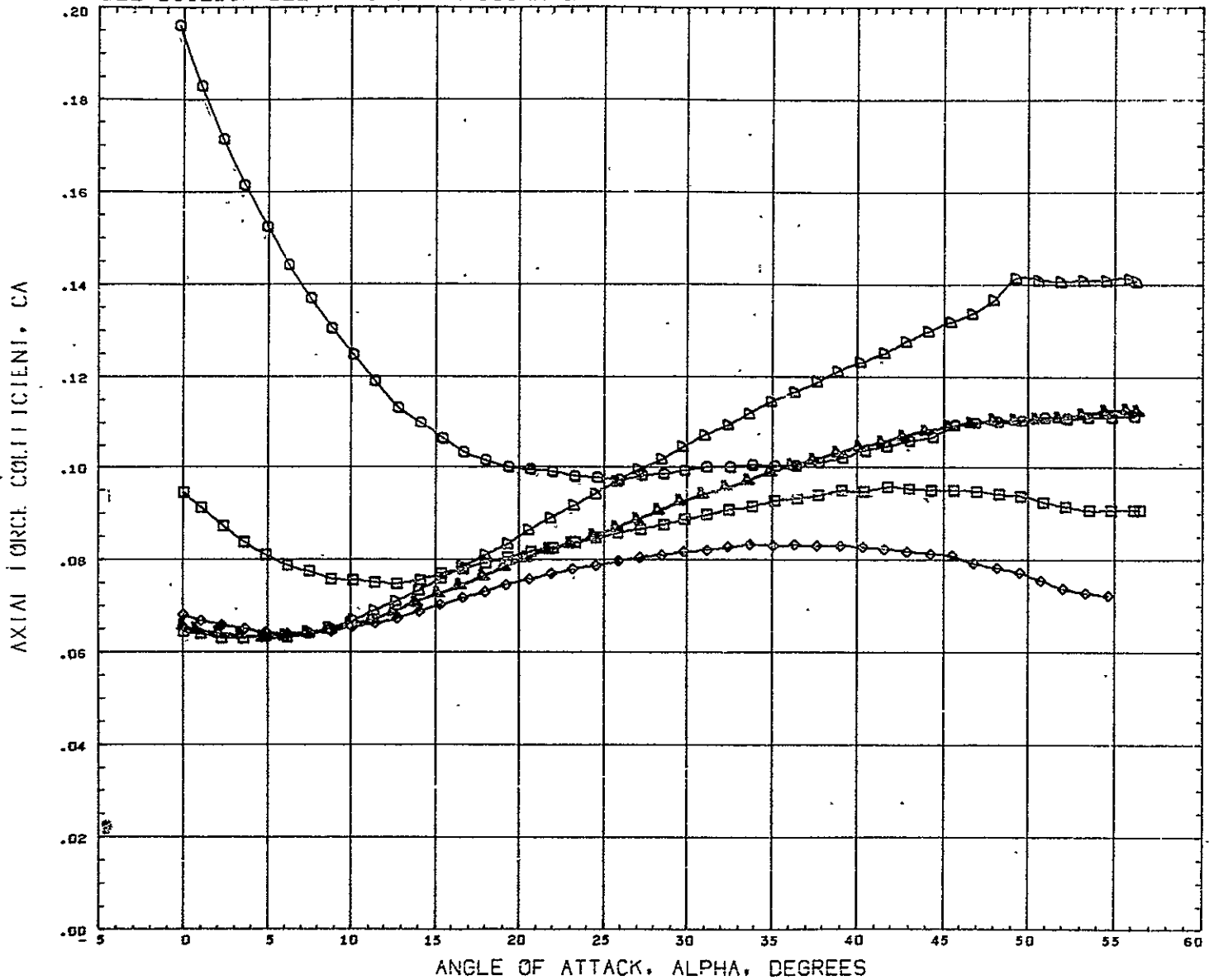
# MODEL BUILDUP DELTA WING CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9028)	GDHWT 247 B7WSV3E7	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(RC9027)	GDHWT 247 B7WSV3	ELEVTR = 0 AILRON = 0 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(BC9019)	GDHWT 247 B7WSV3	ELEVTR = 0 AILRON = 0	REFB 1.4700 IN
(RC9025)	GDHWT 247 B7V3		XMRP 6.4000 IN
(RC9026)	GDHWT 247 B7		YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

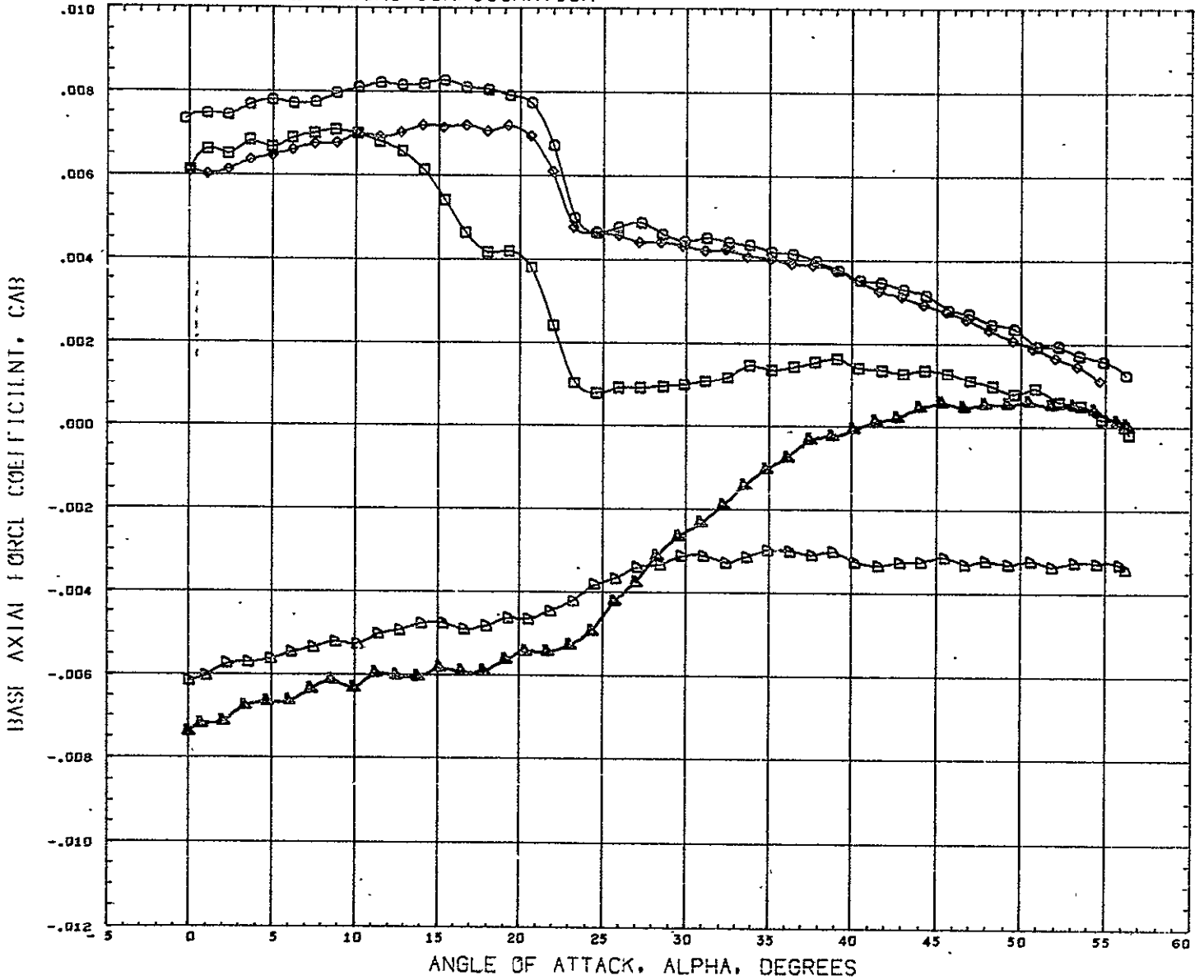
MACH 8.055

# MODEL BUILDUP DELTA WING CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9022)	GDHWT 247 B7W5V3 ELEVTR = -60 AILRON = 0	BETA 0.000 ELEVTR - 60.000	REFS 12.6740 IN2
(RC9021)	GDHWT 247 B7W5V3 ELEVTR = -40 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9030)	GDHWT 247 B7W5V3 ELEVTR = -20 AILRON = 0		REFB 1.4700 IN
(BC9029)	GDHWT 247 B7W5V3 ELEVTR = -10 AILRON = 0		XMRP 6.4000 IN
(BC9019)	GDHWT 247 B7W5V3 ELEVTR = 0 AILRON = 0		YMRP 0.0000 IN
(RC9017)	GDHWT 247 B7W5V3 ELEVTR = 5 AILRON = 0		ZMRP 0.0000 IN
	MACH 8.050		SCALE 0.0035

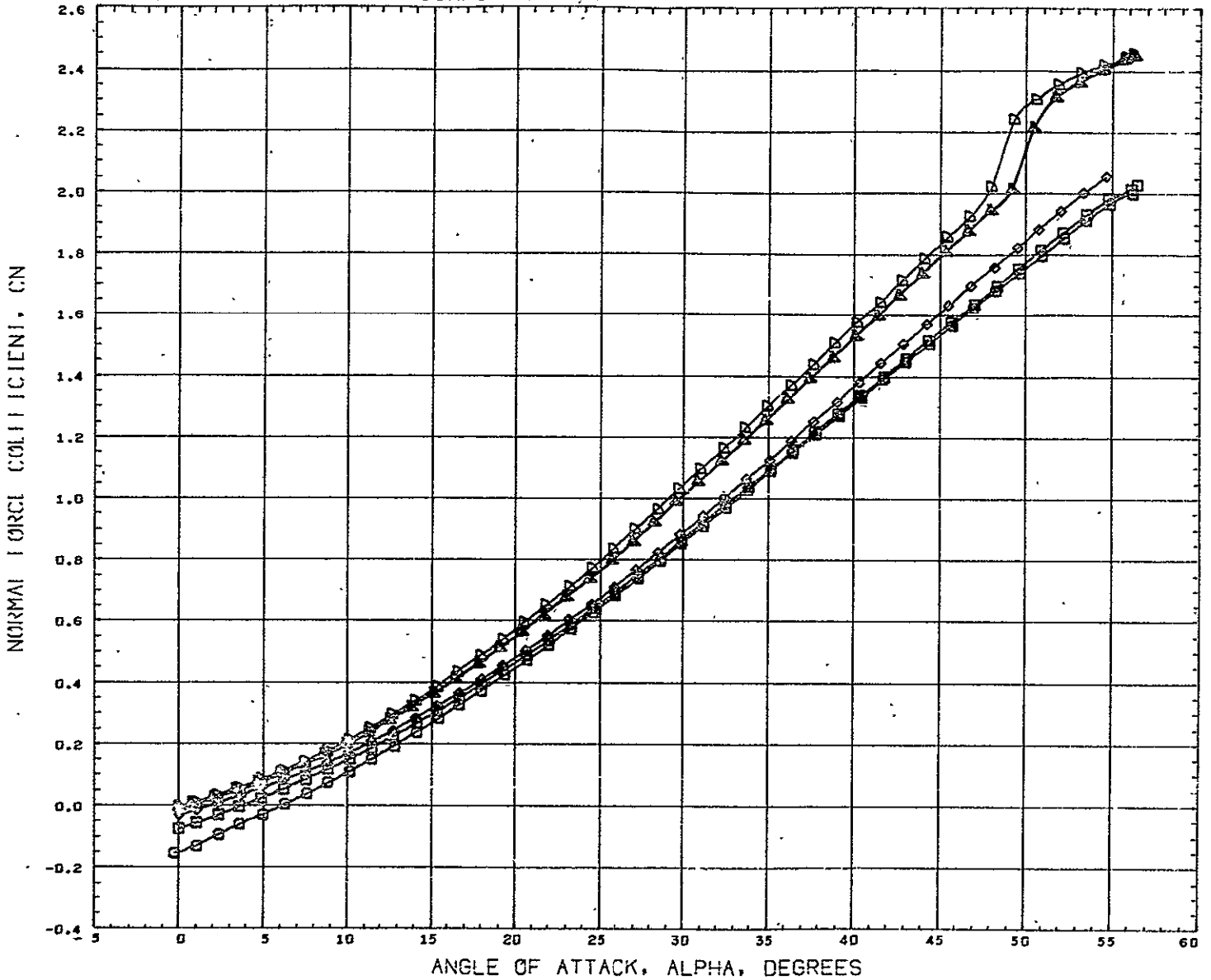
# MODEL BUILDUP DELTA WING CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9022)	GDHWT 247 B7W5V3 ELEVTR = -60 AILRON = 0	BETA 0.000 ELEVTR = 60.000	REFS 12.6740 IN2
(RC9021)	GDHWT 247 B7W5V3 ELEVTR = -40 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9030)	GDHWT 247 B7W5V3 ELEVTR = -20 AILRON = 0		REFB 1.4700 IN
(BC9029)	GDHWT 247 B7W5V3 ELEVTR = -10 AILRON = 0		XMRP 6.4000 IN
(BC9019)	GDHWT 247 B7W5V3 ELEVTR = 0 AILRON = 0		YMRP 0.0000 IN
(RC9017)	GDHWT 247 B7W5V3 ELEVTR = 5 AILRON = 0		ZMRP 0.0000 IN
			SCALE 0.0035

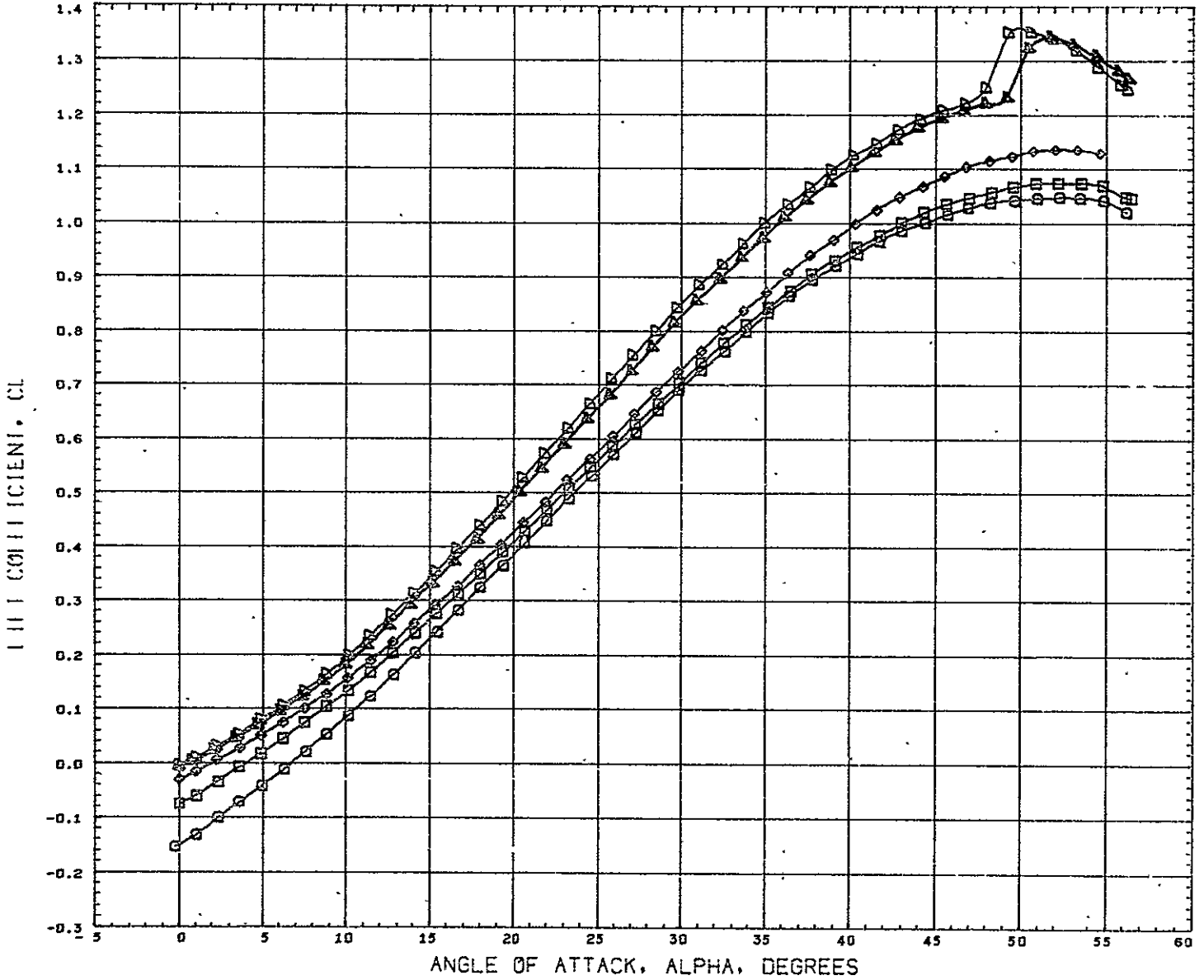
MACH 8.050

# MODEL BUILDUP DELTA WING CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9022)	GDHWT 247 B7W5V3 ELEVTR = -60 AILRON = 0	BETA 0.000 ELEVTR = 60.000	REFS 12.6740 IN2
(RC9021)	GDHWT 247 B7W5V3 ELEVTR = -48 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9030)	GDHWT 247 B7W5V3 ELEVTR = -20 AILRON = 0		REFB 1.4700 IN
(BC9029)	GDHWT 247 B7W5V3 ELEVTR = -10 AILRON = 0		XMRP 6.4000 IN
(BC9019)	GDHWT 247 B7W5V3 ELEVTR = 0 AILRON = 0		YMRP 0.0000 IN
(RC9017)	GDHWT 247 B7W5V3 ELEVTR = 5 AILRON = 0		ZMRP 0.0000 IN
MACH 8.056			SCALE 0.0035

# MODEL BUILDUP DELTA WING CONFIGURATION



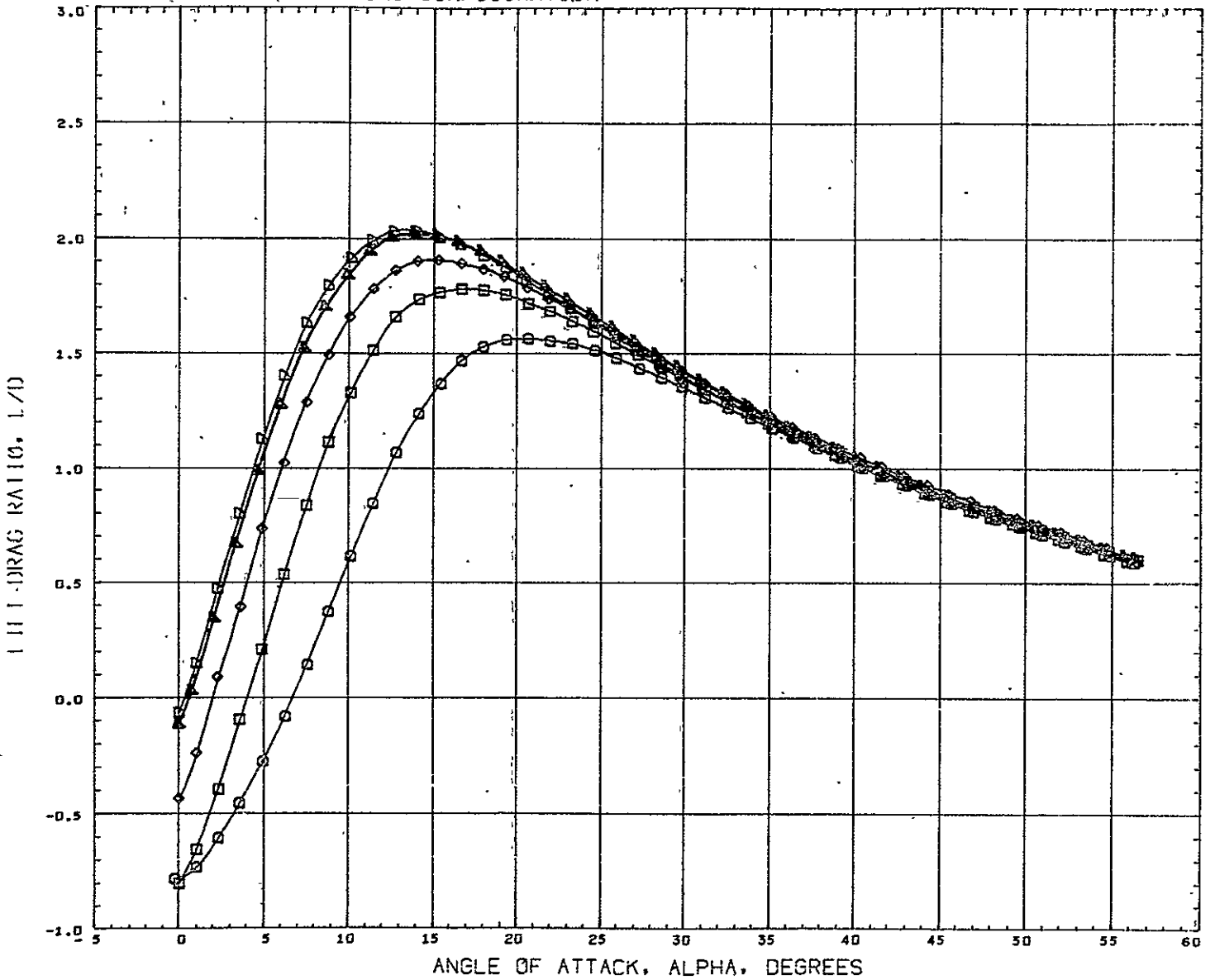
ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9022)	GDHWT 247 B7W5V3	ELEVTR = -60 AILRON = 0	BETA 0.000 ELEVTR - 60.000 REFS 12.6740 IN2
(RC9021)	GDHWT 247 B7W5V3	ELEVTR = -40 AILRON = 0	RUDDER 0.000 AILRON 0.000 REFL 10.0380 IN
(RC9030)	GDHWT 247 B7W5V3	ELEVTR = -20 AILRON = 0	REFB 1.4700 IN
(BC9029)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 0	XMRP 6.4000 IN
(BC9019)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0	YMRP 0.0000 IN
(RC9017)	GDHWT 247 B7W5V3	ELEVTR = 5 AILRON = 0	ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

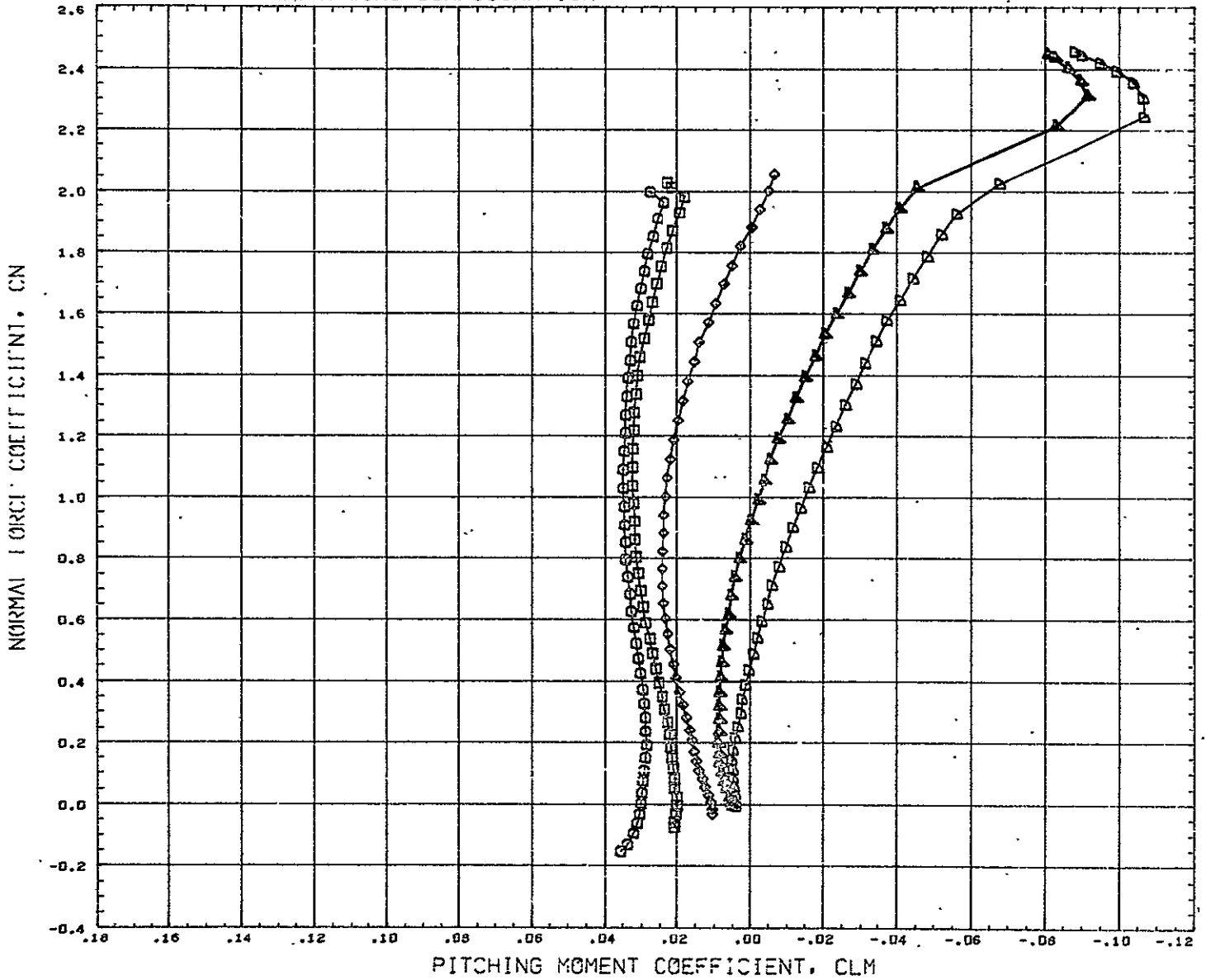


# MODEL BUILDUP DELTA WING CONFIGURATION



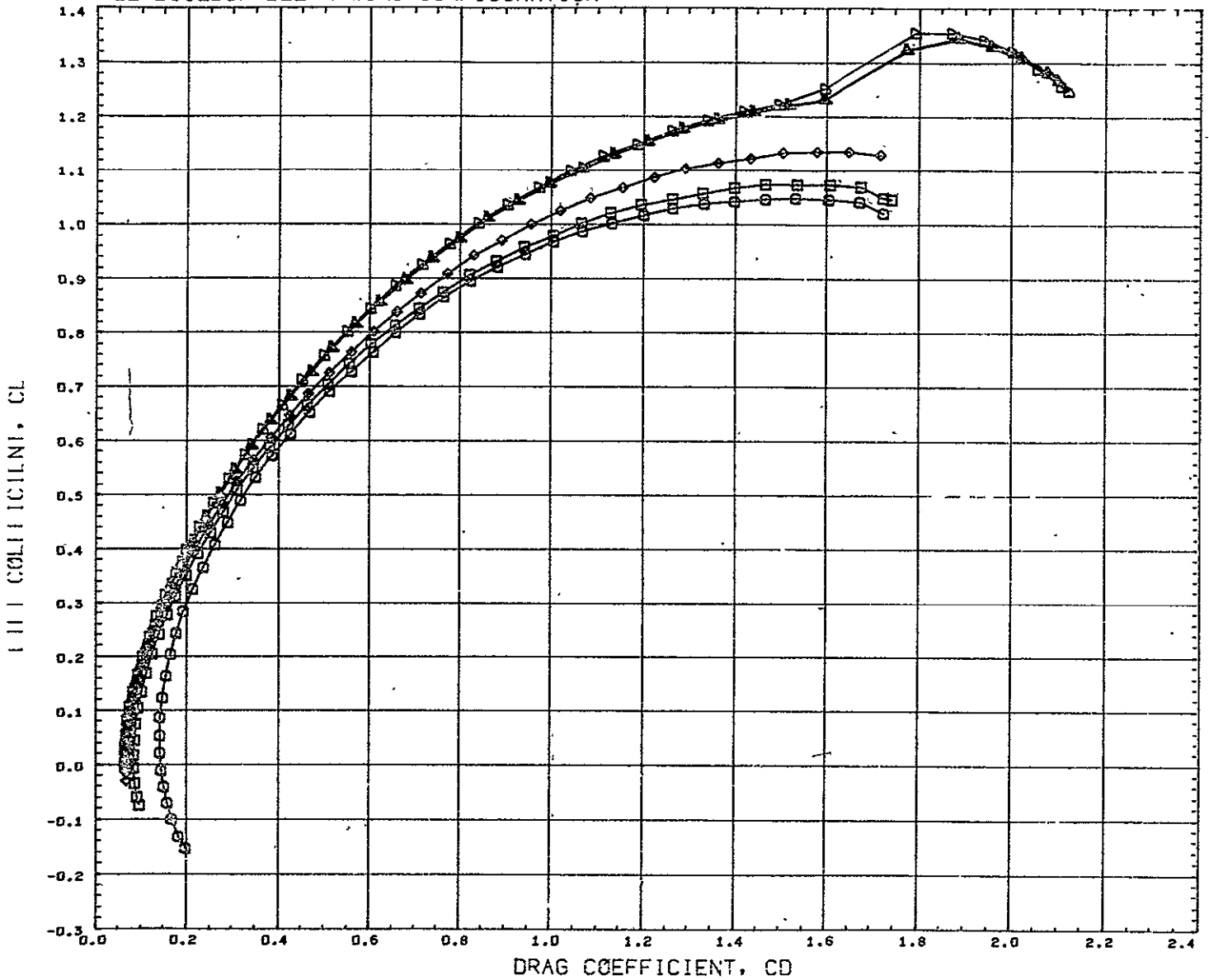
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9022)	GDHWT 247 B7W5V3 ELEVTR = -60 AILRON = 0	BETA 0.000 ELEVTR - 60.000	REFS 12.6740 IN2
(RC9521)	GDHWT 247 B7W5V3 ELEVTR = -40 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9030)	GDHWT 247 B7W5V3 ELEVTR = -20 AILRON = 0		REFB 1.4700 IN
(BC9929)	GDHWT 247 B7W5V3 ELEVTR = -10 AILRON = 0		XMRP 6.4000 IN
(BC9919)	GDHWT 247 B7W5V3 ELEVTR = 0 AILRON = 0		YMRP 0.0000 IN
(RC9017)	GDHWT 247 B7W5V3 ELEVTR = 5 AILRON = 0		ZMRP 0.0000 IN
			SCALE 0.0035
MACH	0.550		

# MODEL BUILDUP DELTA WING CONFIGURATION



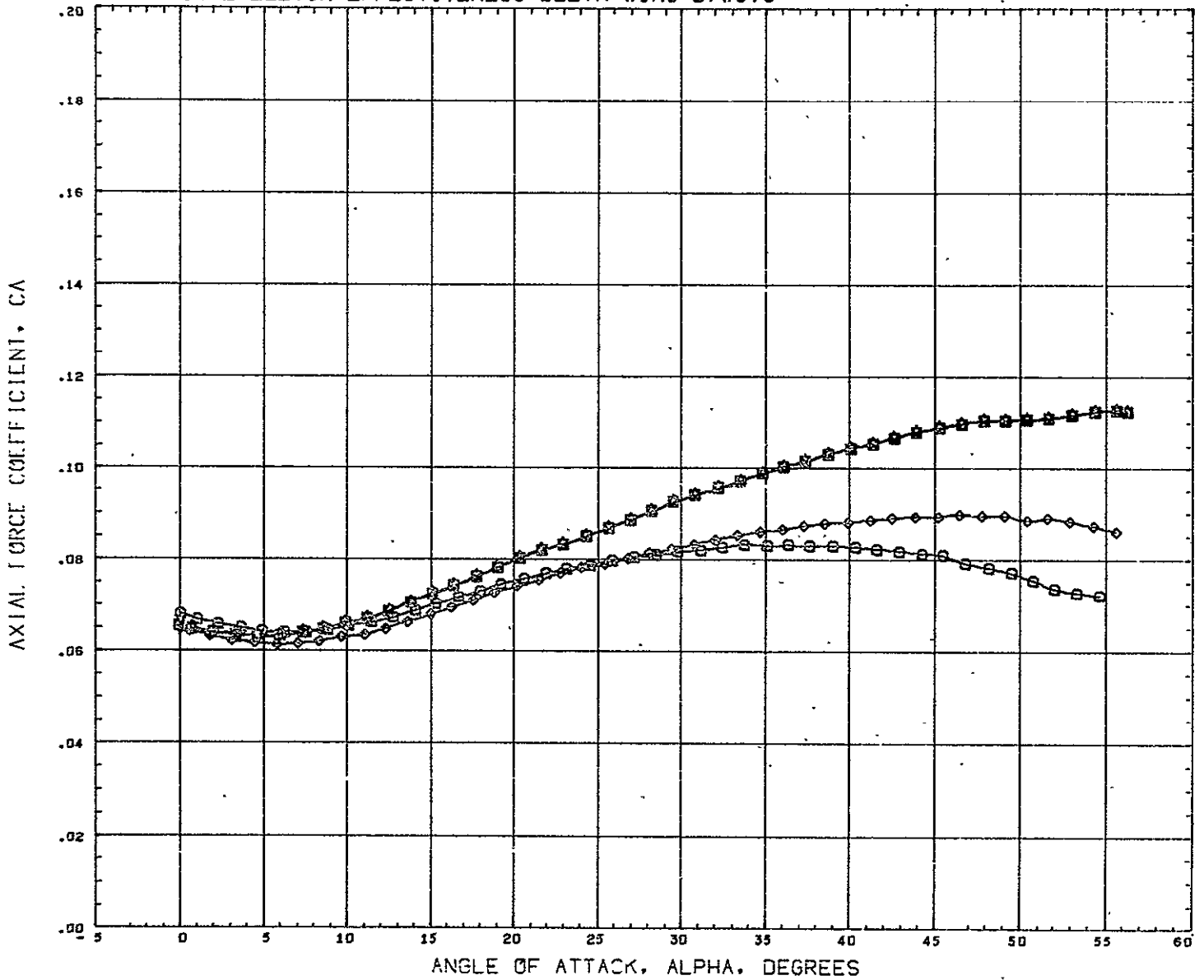
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9022)	GDHWT 247 B7W5V3 ELEVTR =-60 AILRON = 0	BETA 0.000 ELEVTR - 60.000	REFS 12.6740 IN2
(RC9021)	GDHWT 247 B7W5V3 ELEVTR =-40 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9030)	GDHWT 247 B7W5V3 ELEVTR =-20 AILRON = 0		REFB 1.4700 IN
(BC9029)	GDHWT 247 B7W5V3 ELEVTR =-10 AILRON = 0		XMRP 6.4000 IN
(BC9019)	GDHWT 247 B7W5V3 ELEVTR = 0 AILRON = 0		YMRP 0.0000 IN
(RC9017)	GDHWT 247 B7W5V3 ELEVTR = 5 AILRON = 0		ZMRP 0.0000 IN
	MACH 0.950		SCALE 0.0035

# MODEL BUILDUP DELTA WING CONFIGURATION



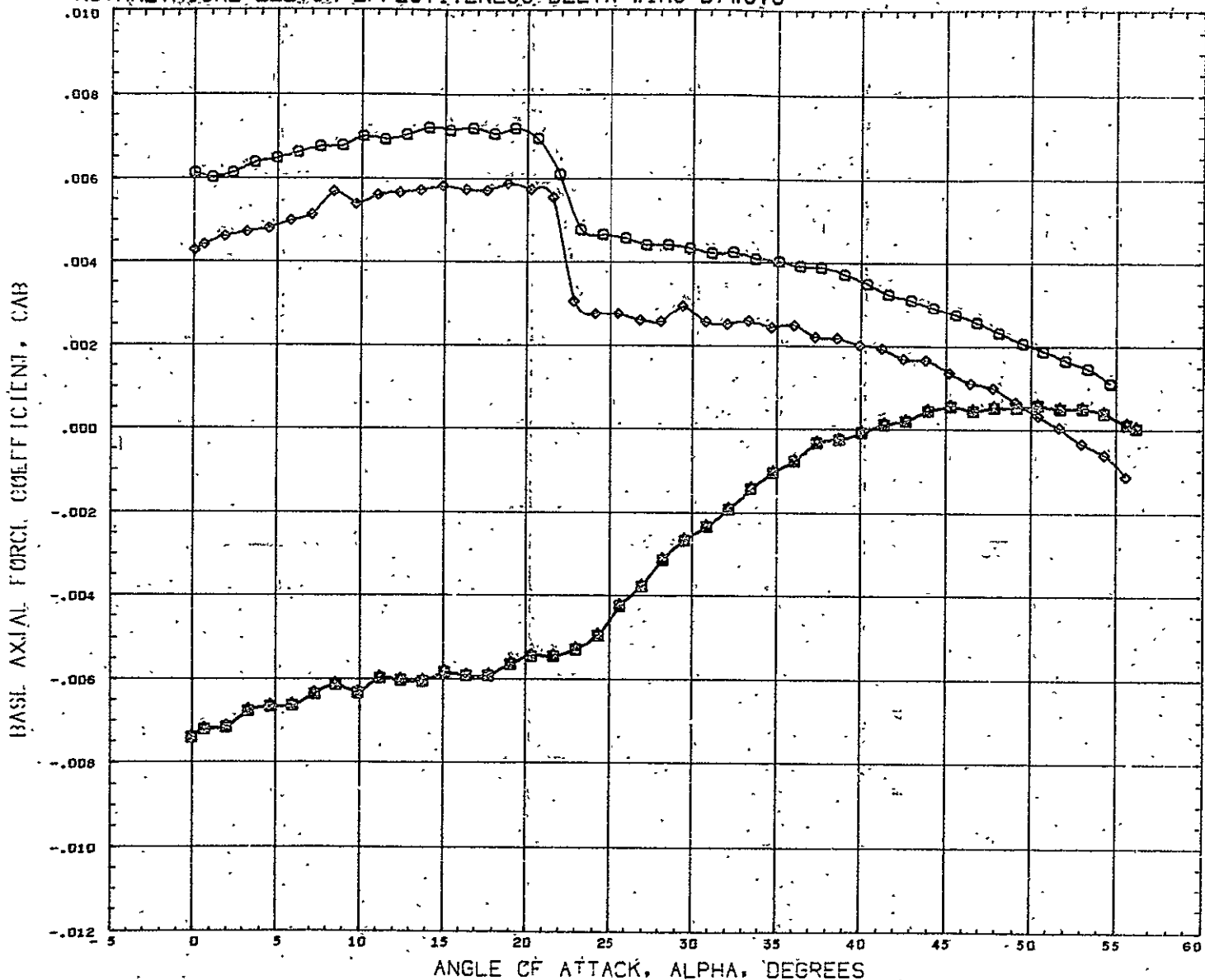
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9022)	GDHWT 247 B7W5V3	ELEVTR = -60 AILRON = 0	BETA 0.000 ELEVTR = 60.000 REFS 12.6740 IN2
(RC9021)	GDHWT 247 B7W5V3	ELEVTR = -40 AILRON = 0	RUDDER 0.000 AILRON 0.000 REFL 10.0380 IN
(RC9030)	GDHWT 247 B7W5V3	ELEVTR = -20 AILRON = 0	REFB 1.4700 IN
(RC9029)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 0	XHRF 6.4000 IN
(RC9019)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0	YHRF 0.0000 IN
(RC9017)	GDHWT 247 B7W5V3	ELEVTR = 5 AILRON = 0	ZHRF 0.0000 IN
MACH 8.050			SCALE 0.0035

# ASYMMETRICAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9030)	GDHWT 247 B7W5V3	ELEVTR = -20 AILRON = 0	BETA 0.000 ELEVTR - 20.000
(BC9029)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 0	RUDDER 0.000 AILRON 0.000
(RC9024)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 10	
(BC9019)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0	
MACH 8.050			REFS 12.6740 IN2 REFL 10.0380 IN REFB 1.4700 IN XHRF 6.4000 IN YHRF 0.0000 IN ZHRF 0.0000 IN SCALE 0.0035

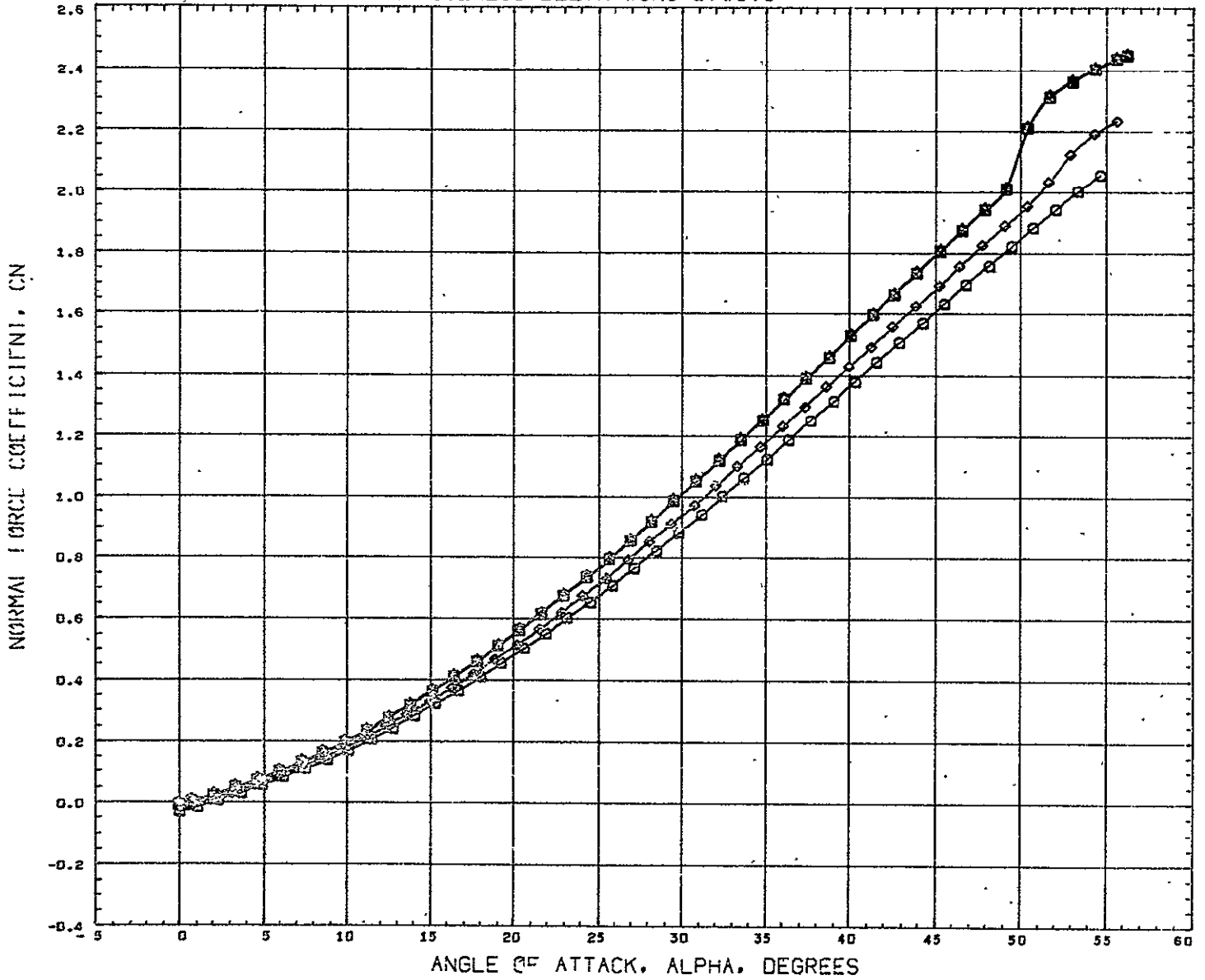
# ASYMMETRICAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9030)	GDHWT 247 B7W5V3	ELEVTR = -20 AILRON = 0 BETA 0.000, ELEVTR = 20.000	REFS 12.6740 IN <sup>2</sup>
(BC9025)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 0 RUDDER 0.000, AILRON 0.000	REFL 10.0380 IN
(RC9024)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 10	REFB 1.4700 IN
(BC9019)	GDHWT 247 B7W5V3	ELEVTR = 5 AILRON = 0	XMRP 6.4000 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

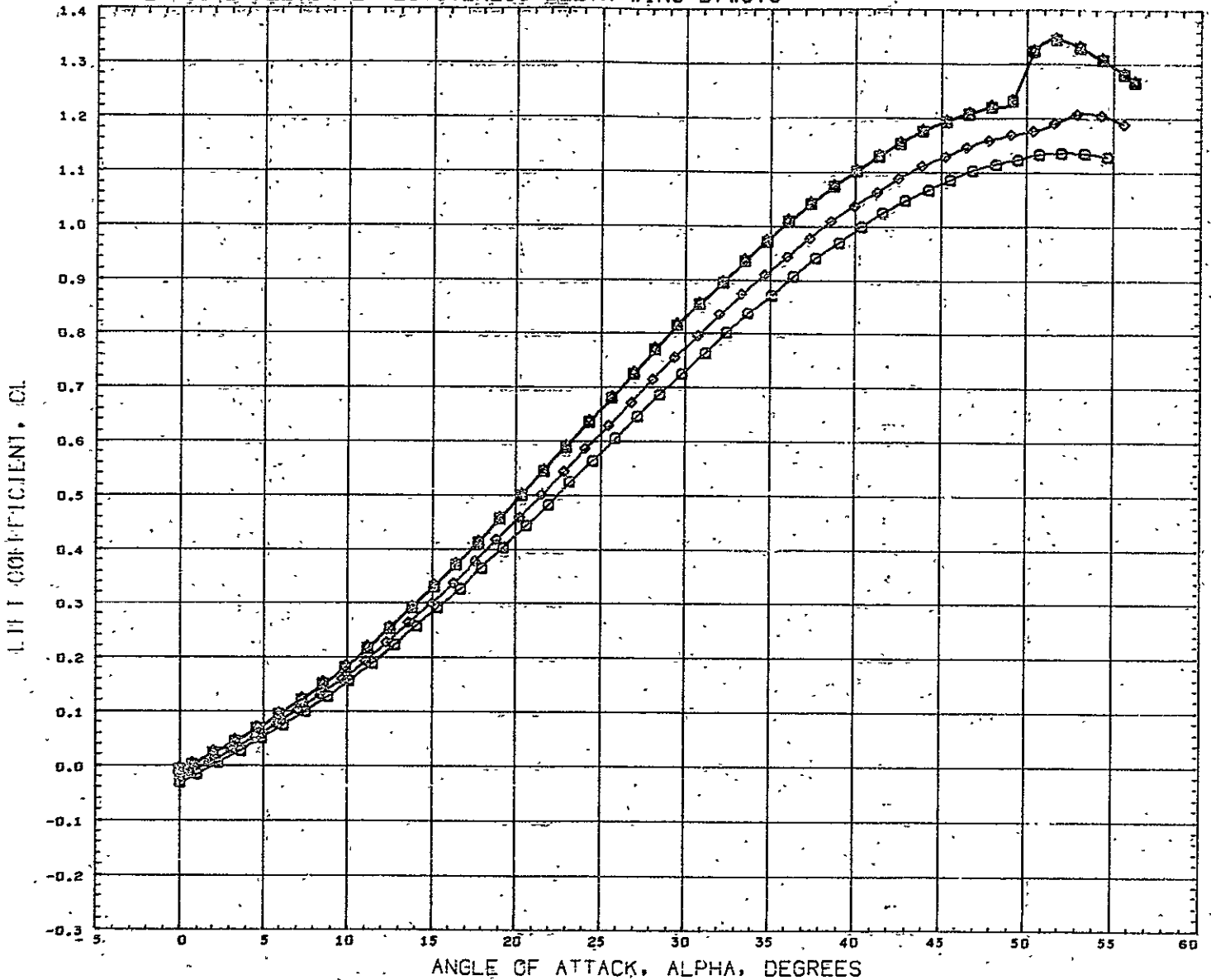
# ASYMMETRICAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES			REFERENCE INFORMATION				
(RC9030)	□	GDHWT 247 B7W5V3	ELEVTR = -20	AILRON = 0	BETA	0.000	ELEVTR = 20.000	REFS	12.6740	IN2
(BC9029)	◇	GDHWT 247 B7W5V3	ELEVTR = 10	AILRON = 0	RUDDER	0.000	AILRON = 0.000	REFL	10.0380	IN
(RC9024)	△	GDHWT 247 B7W5V3	ELEVTR = -10	AILRON = 10				REFB	1.4700	IN
(BC9019)	△	GDHWT 247 B7W5V3	ELEVTR = 0	AILRON = 0				XMRP	6.4000	IN
								YMRP	0.0000	IN
								ZMRP	0.0000	IN
								SCALE	0.0035	

MACH 8.050

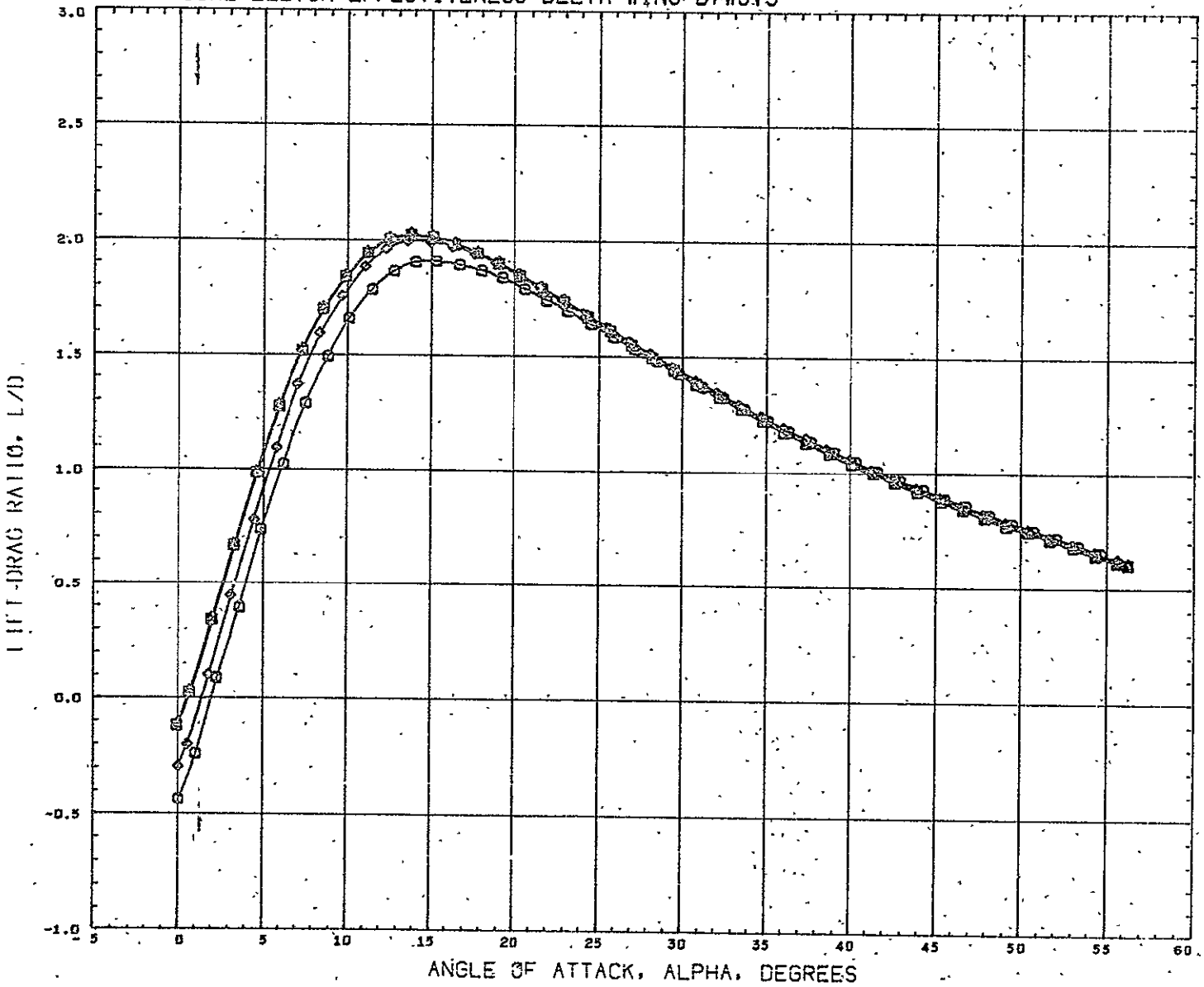
# ASYMMETRICAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9030) [Squares]	GDHWT 247 B7W5V3 ELEVTR = -20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(BC9029) [Diamonds]	GDHWT 247 B7W5V3 ELEVTR = -10 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9024) [Circles]	GDHWT 247 B7W5V3 ELEVTR = -10 AILRON = 10		REFB 1.4700 IN
(BC9019) [Triangles]	GDHWT 247 B7W5V3 ELEVTR = 0 AILRON = 0		XHRF 6.4000 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 8.050

# ASYMMETRICAL ELEVON EFFECTIVENESS DELTA WING B7W5V3

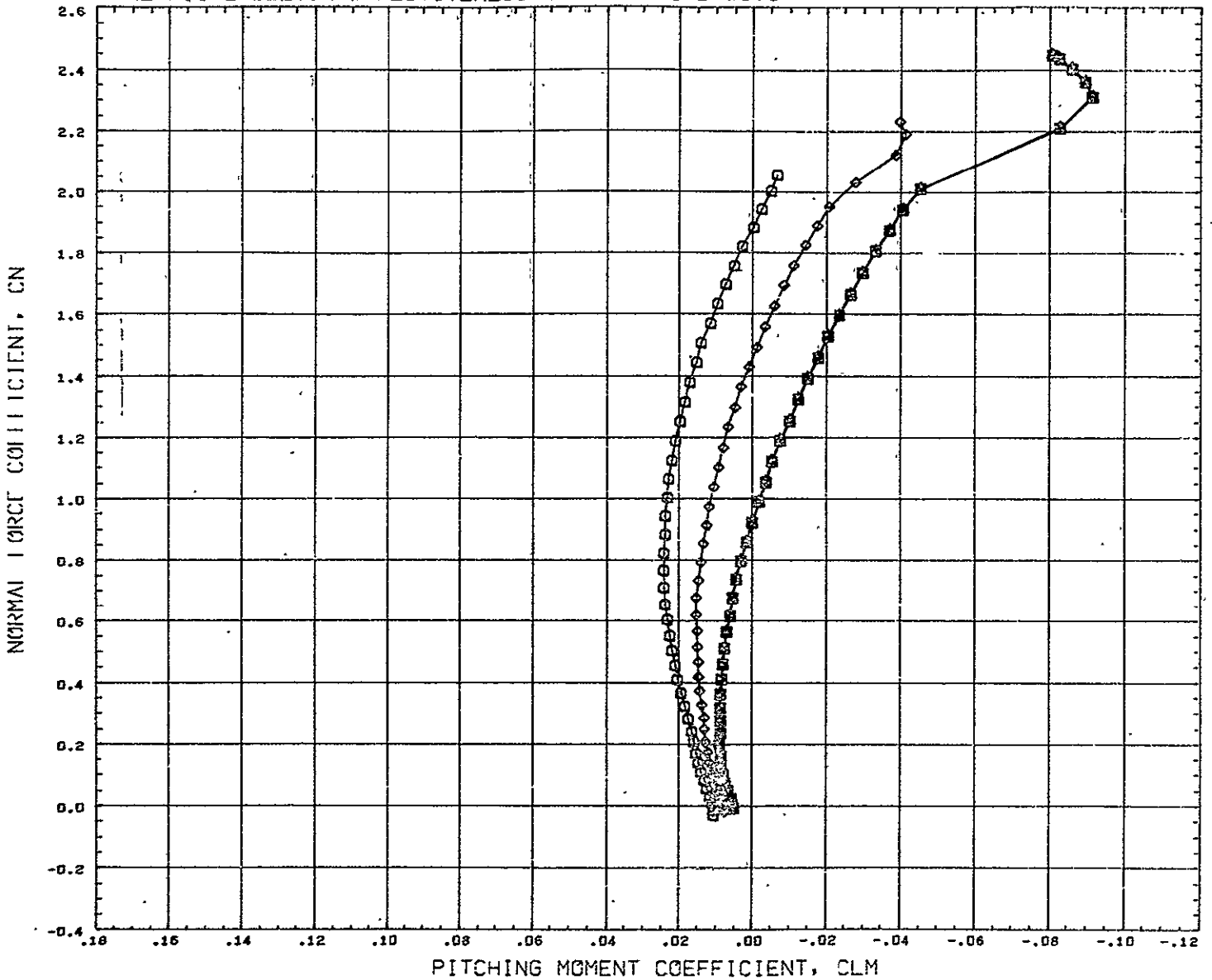


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9030)	GDHWT 247 B7W5V3	ELEVTR = -20 AILRON = 0	BETA 0.000 ELEVTR - 20.000
(BC9029)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 0	RUDDER 0.000 AILRON 0.000
(RC9024)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 10	
(BC9019)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0	
			REFS 12.6740 IN2
			REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.4000 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 0.050



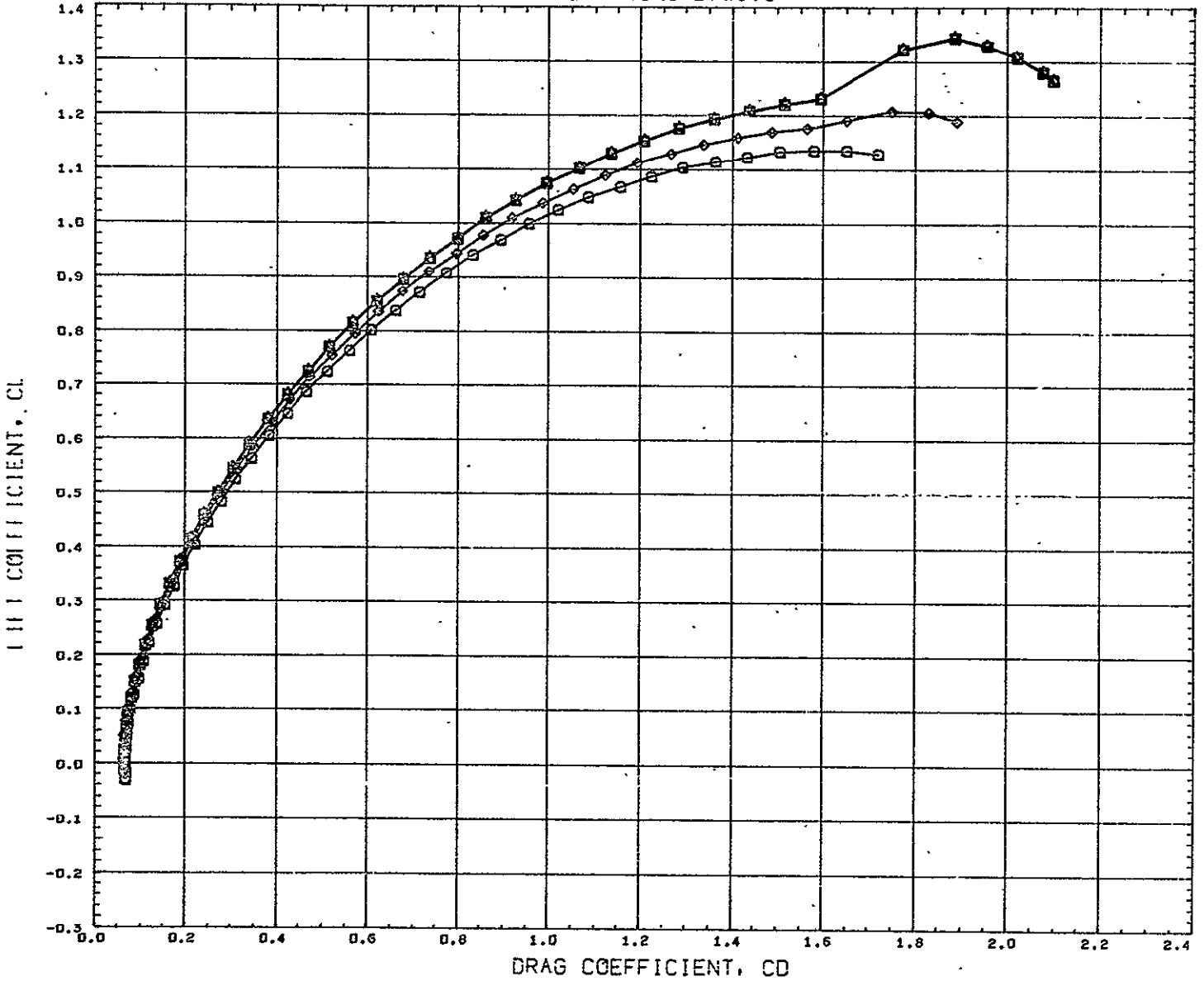
# ASYMMETRICAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9030)	GDHWT 247 B7W5V3	ELEVTR = -20 AILRON = 0 BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(BC9029)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 5 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9024)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 10	REFR 1.4700 IN
(BC9019)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0	XMRP 6.4000 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 8.050

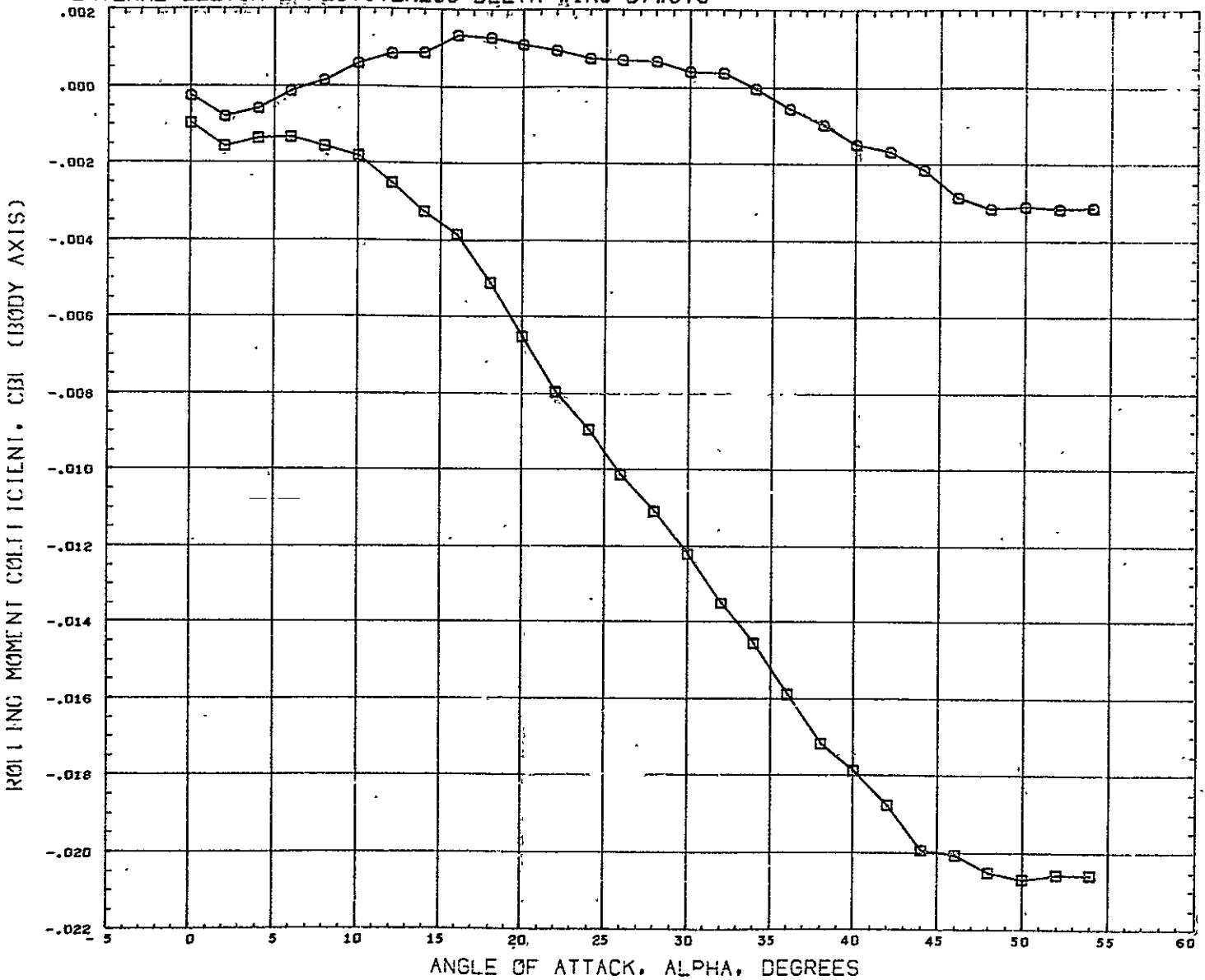
# ASYMMETRICAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(RC9030)	GDHWT 247 B7W5V3 ELEVTR = -20 AILRON = 0	BETA 0.000 ELEVTR - 20.000	REFS 12.6740 IN2
(RC9029)	GDHWT 247 B7W5V3 ELEVTR = -15 AILRON = 0	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
(RC9024)	GDHWT 247 B7W5V3 ELEVTR = -10 AILRON = 10		REFB 1.4700 IN
(RC9019)	GDHWT 247 B7W5V3 ELEVTR = 0 AILRON = 0		XMRP 6.4000 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

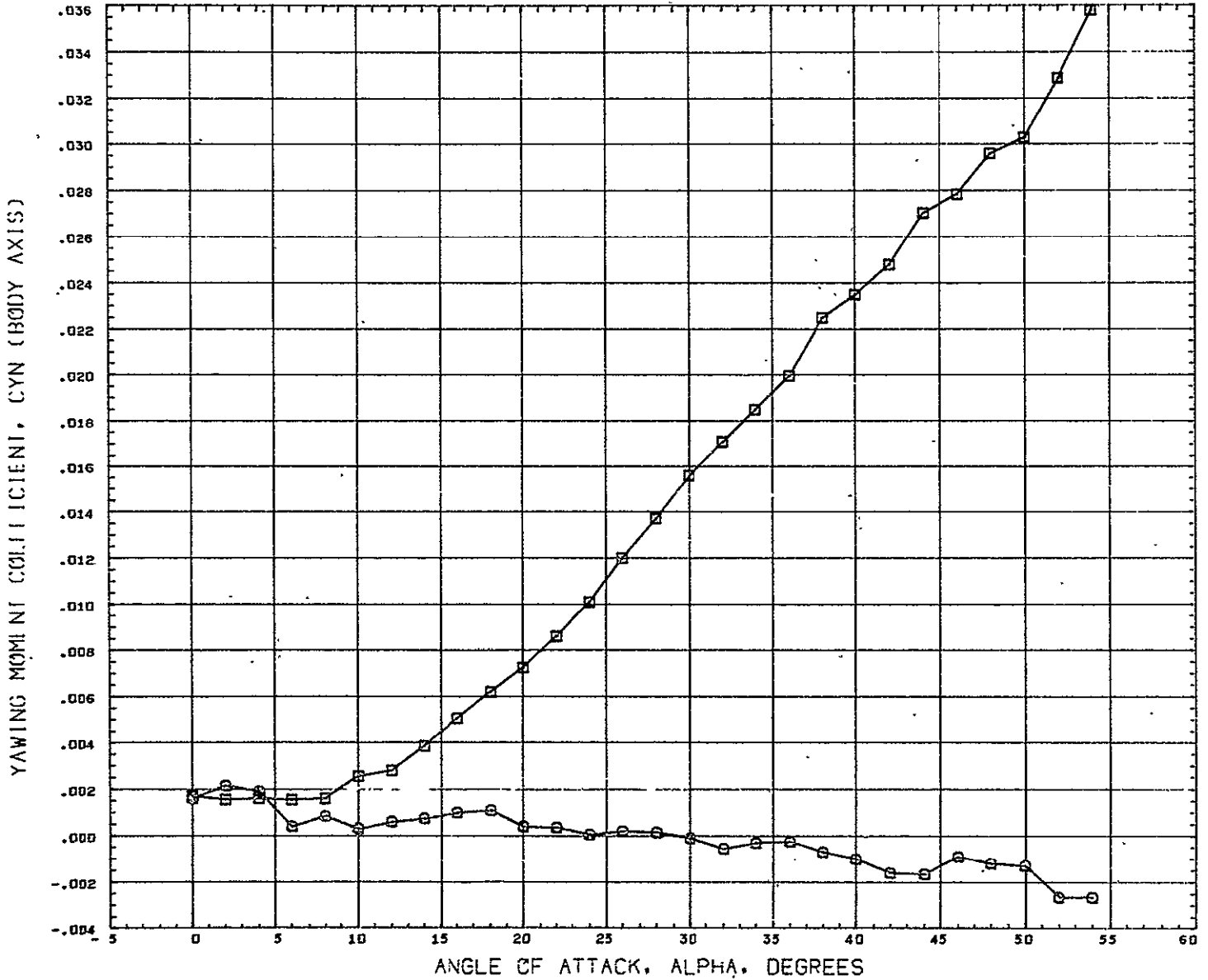
# LATERAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(NC9002)	GDHWT 247 B1W3T6-9BV3 ELEVTR = 0 AILRON = 0	BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN <sup>2</sup>
(NC9041)	GDHWT 247 B1W3T6-9BV3 ELEVTR = 10 AILRON = -10	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN <sup>2</sup>
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

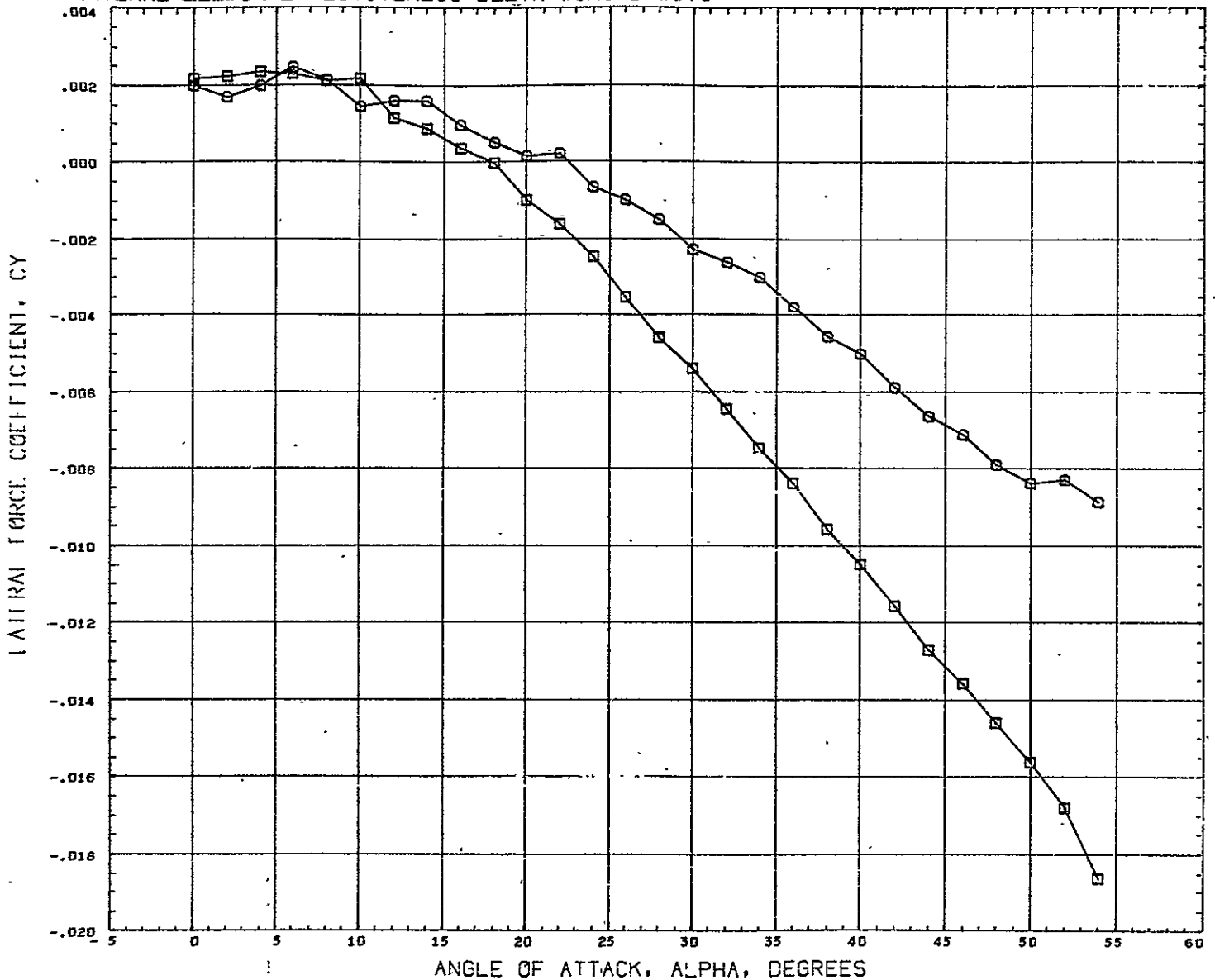
# LATERAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(NC9002)	GDHWT 247 B1W3T6-90V3 ELEVTR = 0 AILRON = 0	BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(NC9041)	GDHWT 247 B1W3T6-90V3 ELEVTR = 10 AILRON 7-10	RUBBER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XHRF 6.2920 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

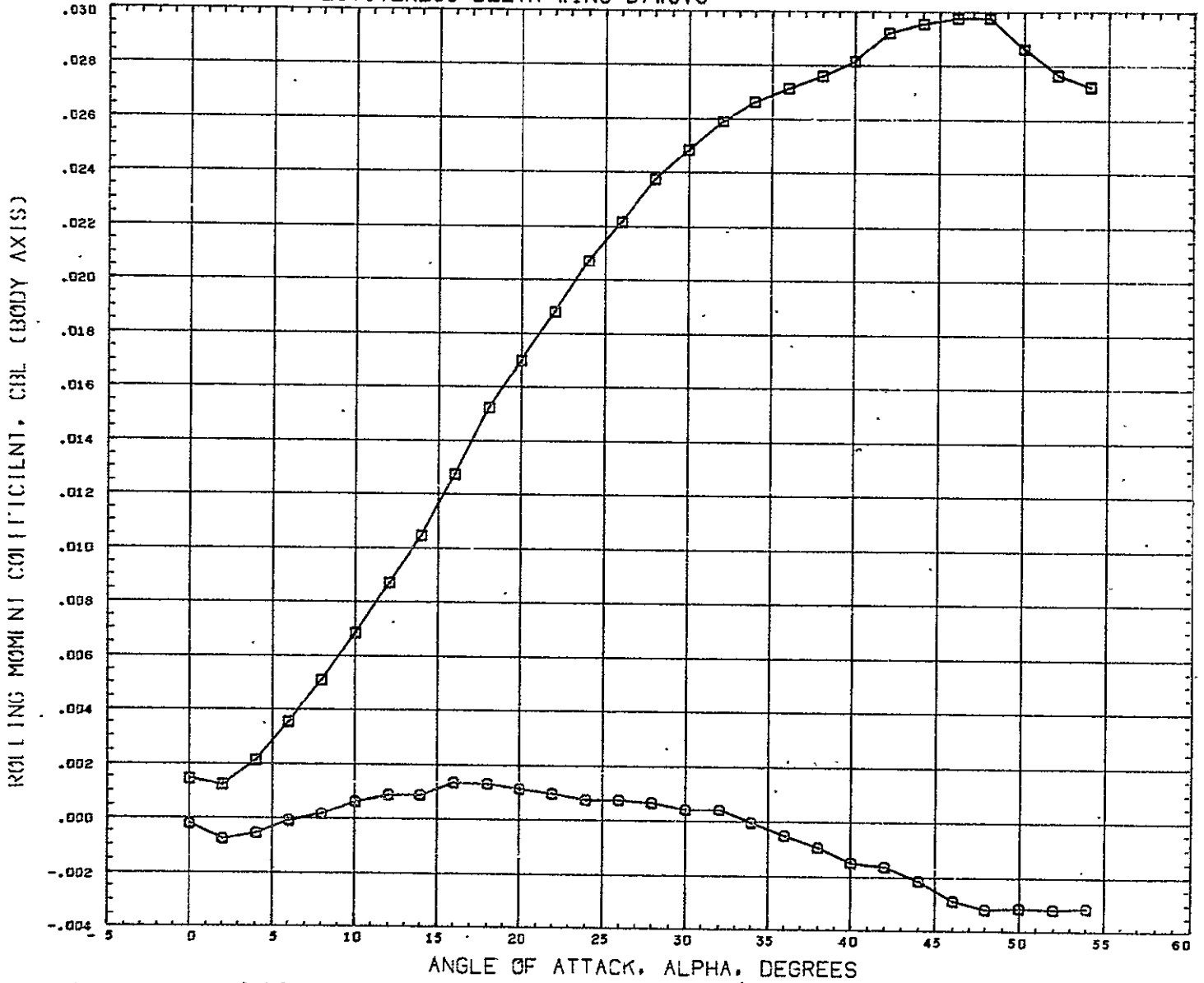
MACH 8.050

# LATERAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(NC9002)	GDHWT 247 B1W3T6-90V3	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(NC9041)	GDHWT 247 B1W3T6-90V3	ELEVTR = 10 AILRON = -10 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035
MACH	8.050		

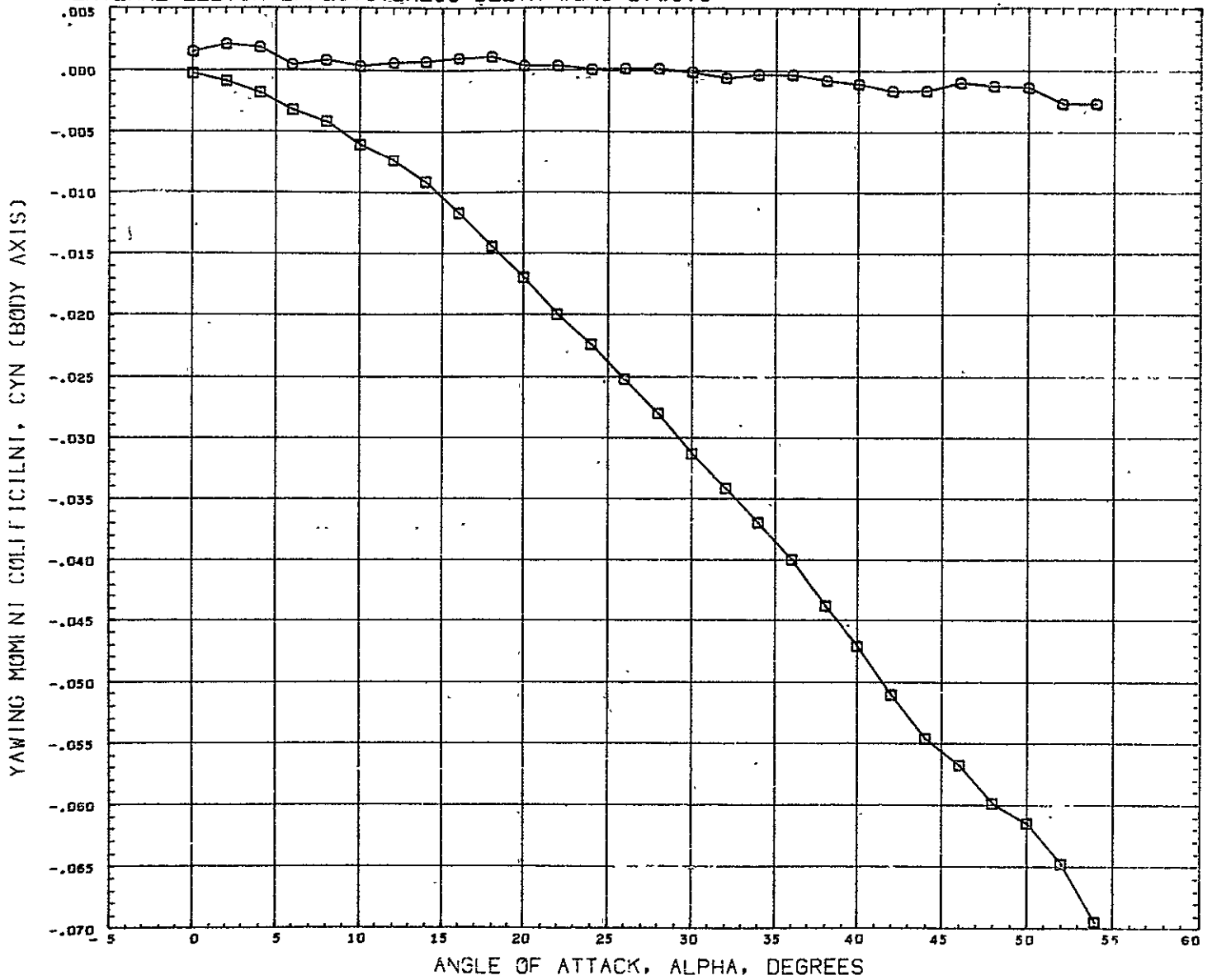
# LATERAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(NC9002)	GDHWT 247 B1W3T6-90V3	BETA 0.000	REFS 12.6740 IN2
(NC9039)	GDHWT 247 B1W3T6-90V3	ELEVTR = 0 AILRON = 0	REFL 10.0380 IN
		ELEVTR = 10 AILRON = 10	REFB 1.4700 IN
		RUDDER 0.000	XMRF 6.2920 IN
			YMRF 0.0000 IN
			ZMRF 0.0000 IN
			SCALE 0.0035

MACH 8.050

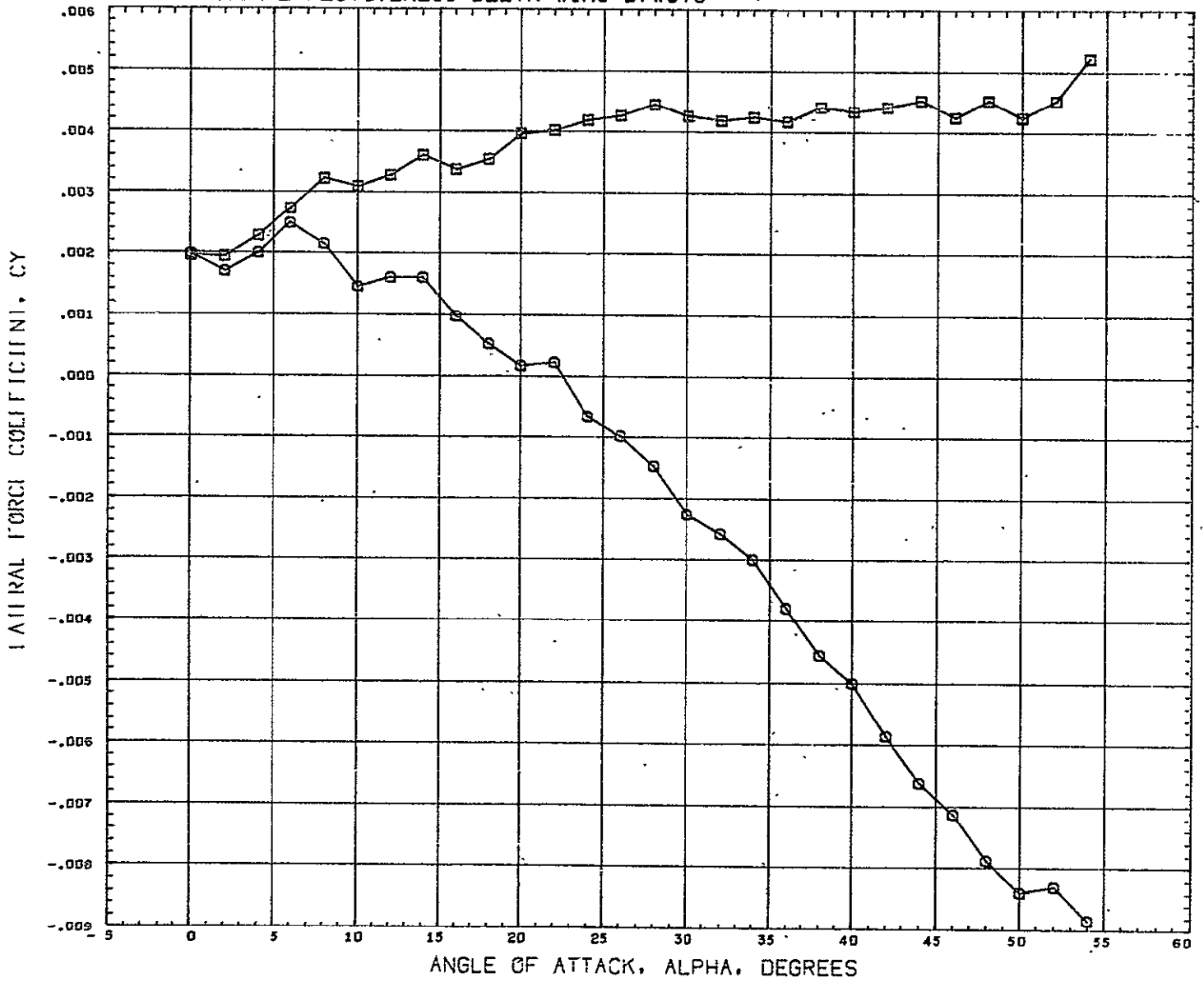
# LATERAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(NC9002)	GDHWT 247 B1W3T6-9GV3	ELEVTR = 0 AILRON = 0	REFS 12.6740 IN2
(NC9039)	GDHWT 247 B1W3T6-9GV3	ELEVTR = 10 AILRON = 10	REFL 10.0330 IN
		RUDDER 0.000	REFB 1.4700 IN
			XHRF 6.2920 IN
			YHRF 0.0000 IN
			ZHRF 0.0000 IN
			SCALE 0.0035

MACH 8.050

# LATERAL ELEVON EFFECTIVENESS DELTA WING B7W5V3

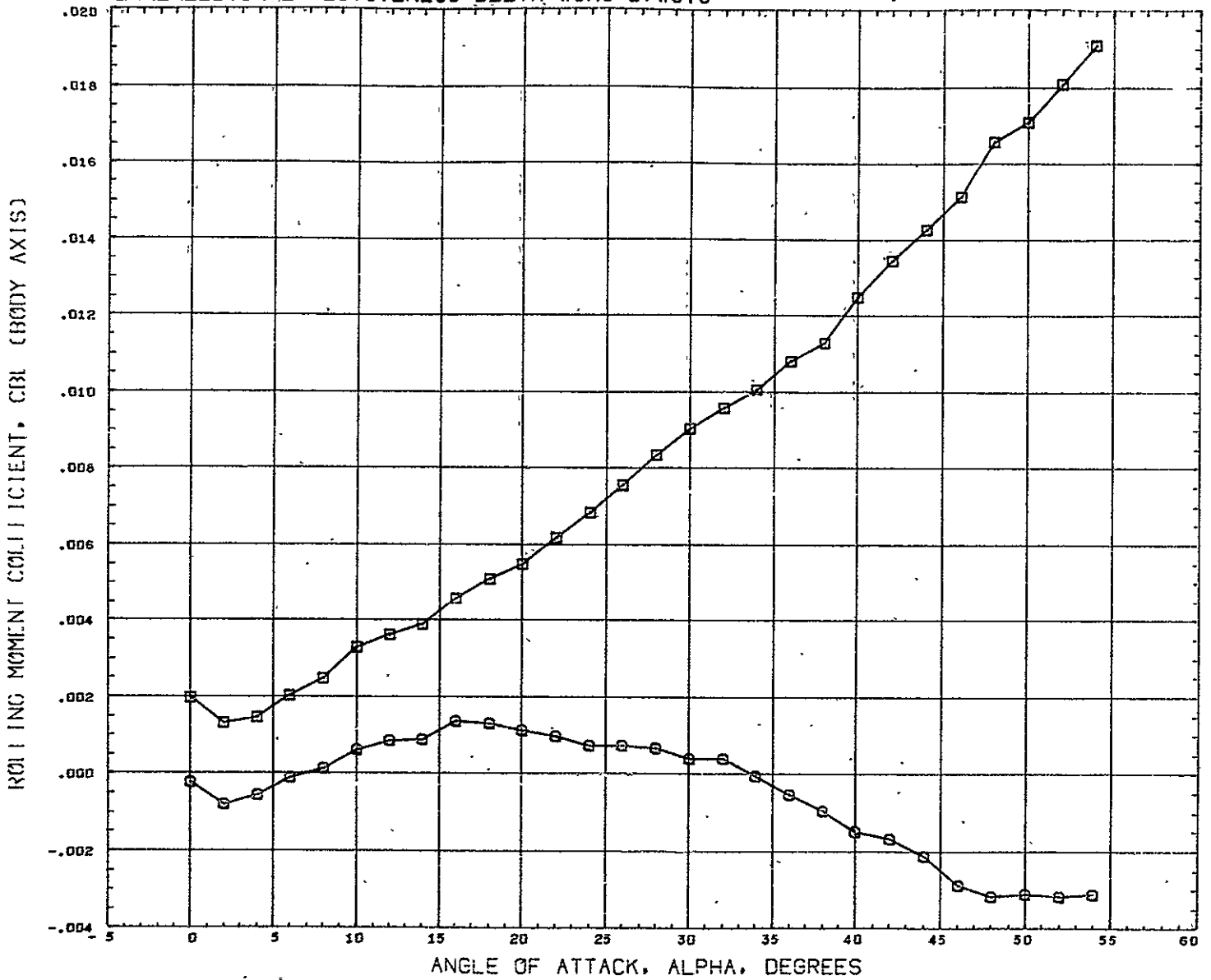


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(NC9502)	GDHWT 247 B1W376-9DV3	ELEVTR = 0 AILRON = 0 BETA 0.050 ELEVTR 0.000	REFS 12.6740 IN2
(NC9539)	GDHWT 247 B1W376-9DV3	ELEVTR = 10 AILRON = 10 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050



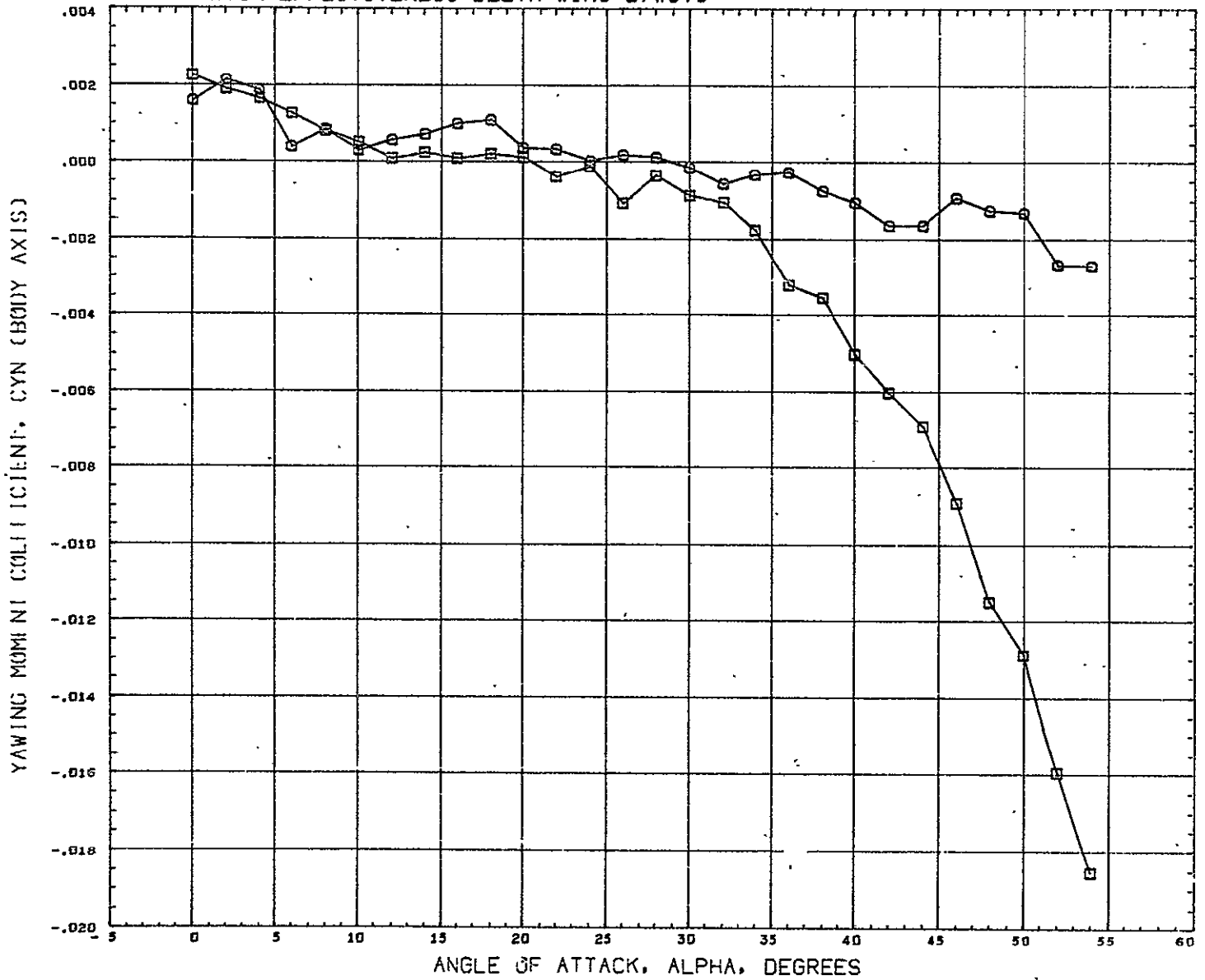
# LATERAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(NC9002)	GDHWT 247 B1W3T6-90V3	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(NC9033)	GDHWT 247 B1W3T6-90V3	ELEVTR = -10 AILRON = 10 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

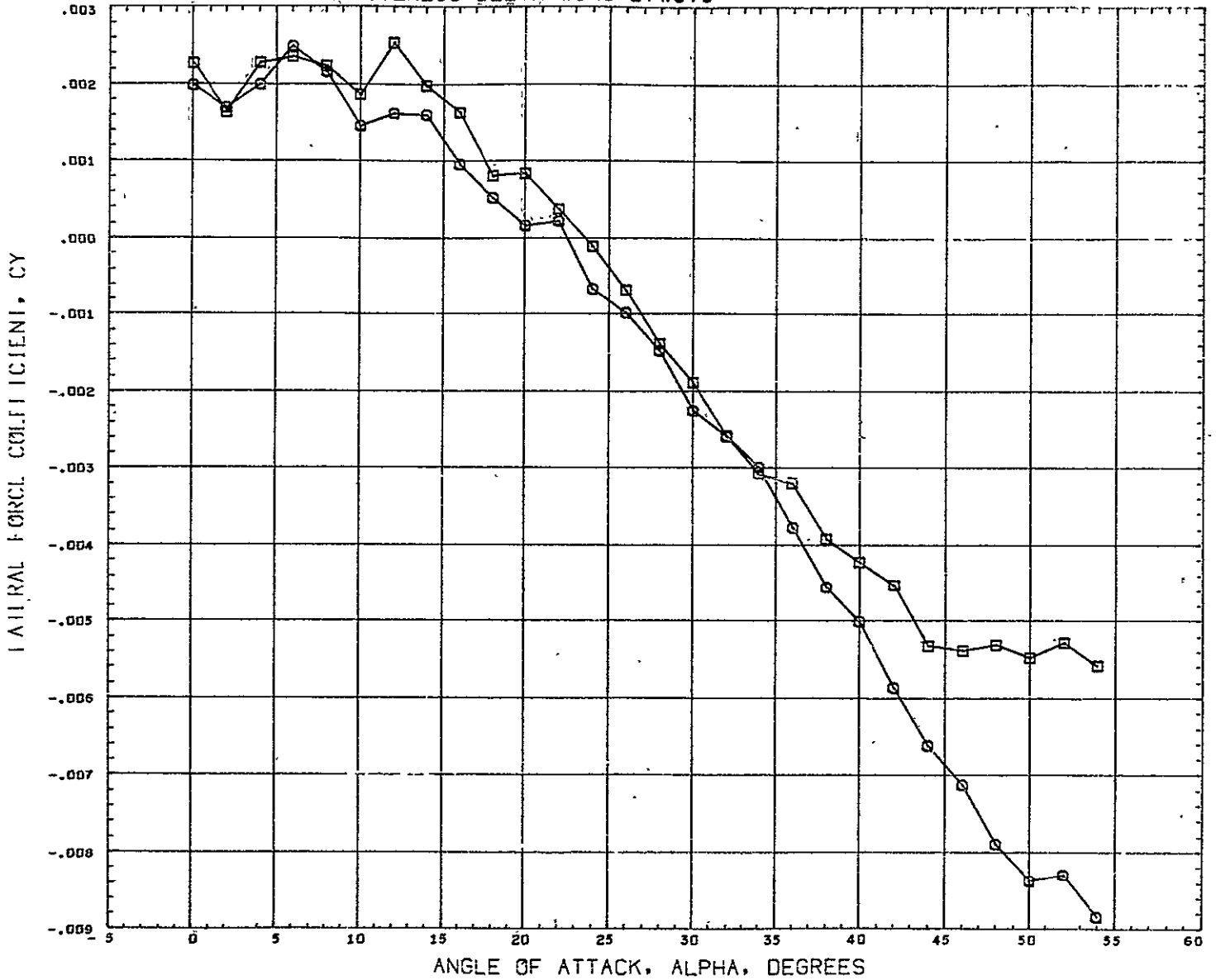
# LATERAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(INC9002)	GDHWT 247 B1W3T6-9DV3 ELEVTR = 0 AILRON = 0	8E1A 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(INC9033)	GDHWT 247 B1W3T6-9DV3 ELEVTR = -10 AILRON = 10	RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

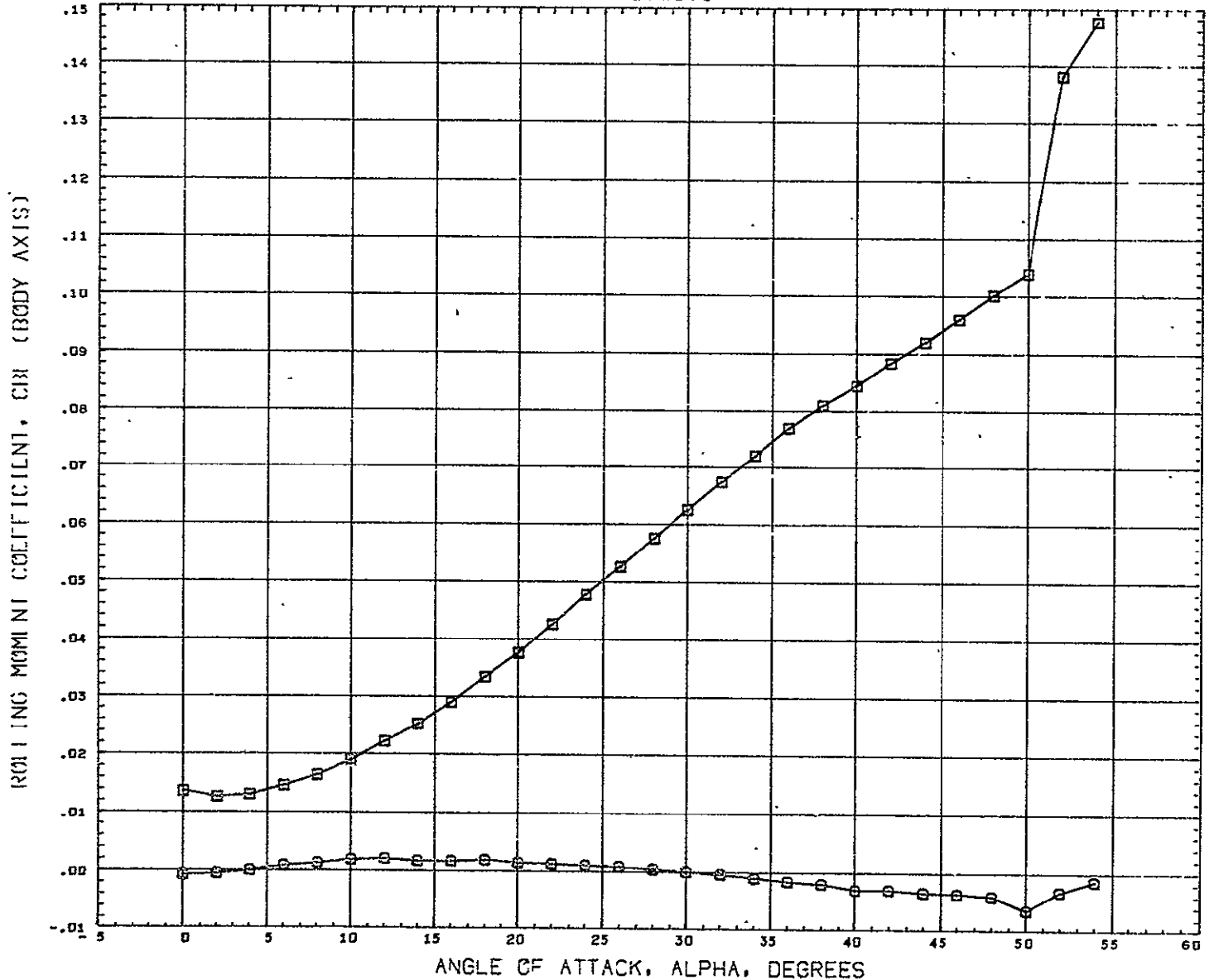
# LATERAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(NC9002)	GDHWT 247 B1W3T6-90V3	ELEVTR = 0 AILRON = 0	BETA 0.000 ELEVTR 0.000
(NC9033)	GDHWT 247 B1W3T6-90V3	ELEVTR = -10 AILRON = 10	BETA 0.000 ELEVTR 0.000
		RUDDER 0.000 AILRON 0.000	REFS 12.6740 IN2
			REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.2920 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

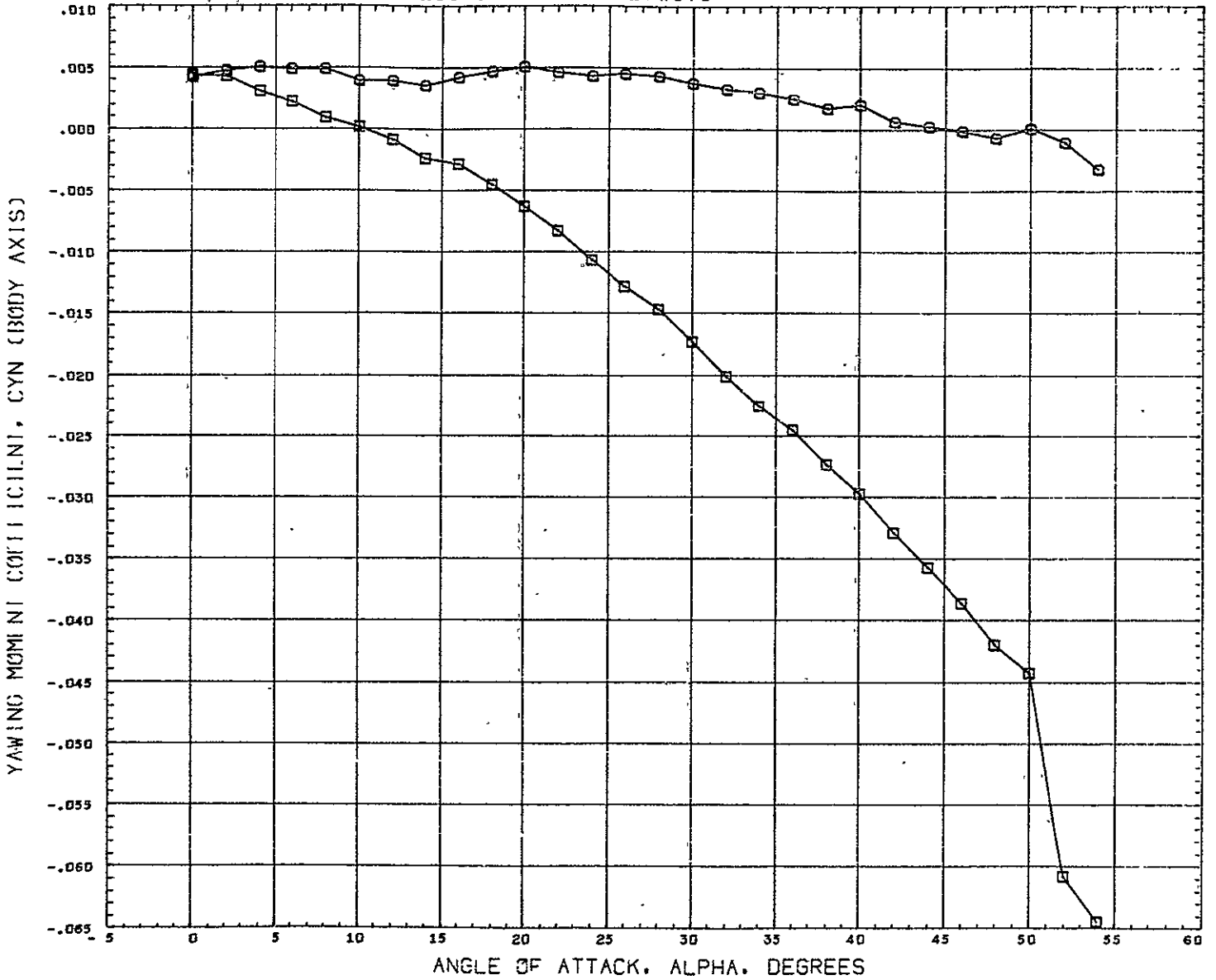
# LATERAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(NC9019)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0 BE1A 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(NC9024)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 10 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.4000 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.950

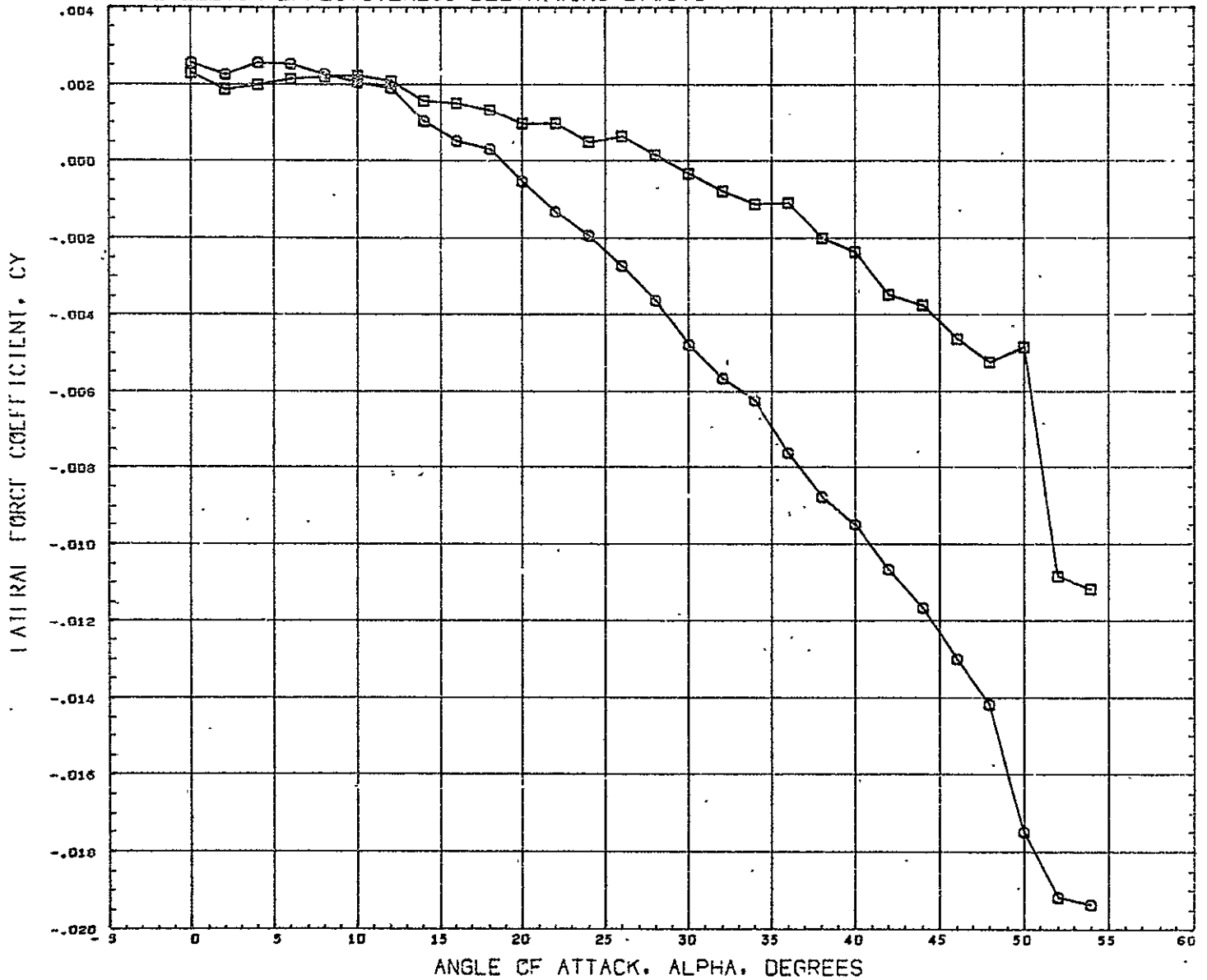
# LATERAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(NC9019)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(NC9024)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 10 RUDDER 0.000 AILRON 0.000	REFL 10.0380 IN
			REFB 1.4700 IN
			XMRP 6.4000 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

# LATERAL ELEVON EFFECTIVENESS DELTA WING B7W5V3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	PARAMETRIC VALUES	REFERENCE INFORMATION
(NC9019)	GDHWT 247 B7W5V3	ELEVTR = 0 AILRON = 0 BETA 0.000 ELEVTR 0.000	REFS 12.6740 IN2
(NC9024)	GDHWT 247 B7W5V3	ELEVTR = -10 AILRON = 10 RUDDER 0.000 AILRON 0.000	REFL 10.9380 IN
			REFB 1.4700 IN
			XMRP 6.4000 IN
			YMRP 0.0000 IN
			ZMRP 0.0000 IN
			SCALE 0.0035

MACH 8.050

