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A complete revision is issued. The drag coefficient, CD, presented in the prior publication, was actually forebody drag coefficient, CDF. This revision presents recalculated values for drag coefficient, CD, and lift-to-drag ratio, L/D, in both the plotted and tabulated data. Copies of the prior publication, dated July 1976, should be discarded.

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MICHOUD DEFENSE SPACE DIVISION



3

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March 1977

REVISION A
DMS-DR-2269
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TRANSONIC HIGH REYNOLDS NUMBER STABILITY AND
CONTROL CHARACTERISTICS OF A 0.015-SCALE
REMOTELY CONTROLLED ELEVON MODEL (44-0) OF THE
SPACE SHUTTLE ORBITER TESTED IN
CALSPAN 8-FOOT TWT (LA70)

by

Harry Parrell,
Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
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New Orleans, La. 70189

for

Engineering Analysis Division
Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: Calspan T18-103
NASA Series Number: LA70
Model Number: 44-0
Test Dates: July 28 through August 6, 1975
Occupancy Hours: 37.5

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TRANSONIC HIGH REYNOLDS NUMBER STABILITY AND CONTROL
CHARACTERISTICS OF A 0.015-SCALE REMOTELY CONTROLLED ELEVON
MODEL (44-0) OF THE SPACE SHUTTLE ORBITER TESTED IN
CALSPAN 8-FOOT TWT (LA70)

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ABSTRACT

Transonic Wind Tunnel tests were run on a .015 scale model of the Space Shuttle Orbiter Vehicle in the Calspan Corporation 8-foot Transonic Wind Tunnel during August 1975. Purpose of the test program was to obtain basic Shuttle Aerodynamic data through a full range of elevon and aileron deflections, verification of data obtained at other facilities, and effects of Reynolds number.

Tests were performed at Mach numbers from .35 to 1.20 and Reynolds numbers from 3.5×10^6 to 8.2×10^6 per foot. The high Reynolds number conditions (nominal 8.0×10^6 /foot) were obtained using the Calspan ejector augmentation system. Angle of attack was varied from -2 to +20 degrees at sideslip angles of -2, 0, and +2 degrees. Sideslip was varied from -6 to +8 degrees at constant angles of attack from 0 to +20 degrees. Aileron settings were varied from -5 to +10 degrees at elevon deflections of -10, 0, and +10 degrees. Fixed aileron settings of 0 and 2 degrees in combination with various fixed elevon settings between -20 and +5 degrees were also run at varying angles of attack.

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SCHEDULES:

- (A) CN vs ALPHA, CN vs CLM, CL vs ALPHA, CL vs CLM, L/D vs ALPHA, CL vs CD, CY, CYN, CBL, CAB, CAF, CBLRMS, AILRON, ELEVON vs ALPHA
- (B) CY, CYN, CBL, CLM, CL, CD, L/D, ELEVON, AILRON, CBLRMS vs BETA
- (C) CY, CYN, CBL, CLM, CL, CD, L/D, ELEVON CBLRMS vs AILRON

NOMENCLATURE
General

| <u>SYMBOL</u> | <u>PLOT SYMBOL</u> | <u>DEFINITION</u> |
|---------------|--------------------|---|
| a | | speed of sound; m/sec, ft/sec |
| C_p | CP | pressure coefficient; $(p_1 - p_\infty)/q$ |
| M | MACH | Mach number; V/a |
| p | | pressure; N/m^2 , psf |
| q | Q(NSM) Q(PSF) | dynamic pressure; $1/2\rho V^2$, N/m^2 , psf |
| RN/L | RN/L | unit Reynolds number; per m, per ft |
| V | | velocity; m/sec, ft/sec |
| α | ALPHA | angle of attack, degrees |
| β | BETA | angle of sideslip, degrees |
| ψ | PSI | angle of yaw, degrees |
| ϕ | PHI | angle of roll, degrees |
| ρ | | mass density; kg/m^3 , slugs/ft ³ |

Reference & C.G. Definitions

| | | |
|------------------------------|------|--|
| A_b | | base area; m^2 , ft^2 |
| b | BREF | wing span or reference span; m, ft |
| c.g. | | center of gravity |
| $\frac{l}{c}$ _{REF} | LREF | reference length or wing mean aerodynamic chord; m, ft |
| S | SREF | wing area or reference area; m^2 , ft^2 |
| | MRP | moment reference point |
| | XMRP | moment reference point on X axis |
| | YMRP | moment reference point on Y axis |
| | ZMRP | moment reference point on Z axis |

SUBSCRIPTS

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

NOMENCLATURE (Continued)

Body-Axis System

| <u>SYMBOL</u> | <u>PLOT SYMBOL</u> | <u>DEFINITION</u> |
|---------------|--------------------|---|
| C_N | CN | normal-force coefficient; $\frac{\text{normal force}}{qS}$ |
| C_A | CA | axial-force coefficient; $\frac{\text{axial force}}{qS}$ |
| C_Y | CY | side-force coefficient; $\frac{\text{side force}}{qS}$ |
| C_{A_b} | CAB | base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$ |
| C_{A_f} | CAF | forebody axial force coefficient, $C_A - C_{A_b}$ |
| C_m | CLM | pitching-moment coefficient; $\frac{\text{pitching moment}}{qS L_{REF}}$ |
| C_n | CYN | yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$ |
| C_l | CBL | rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$ |

Stability-Axis System

| | | |
|------------------|------|--|
| C_L | CL | lift coefficient; $\frac{\text{lift}}{qS}$ |
| C_D | CD | drag coefficient; $\frac{\text{drag}}{qS}$ |
| C_{D_b} | CDB | base-drag coefficient; $\frac{\text{base drag}}{qS}$ |
| C_{D_f} | CDF | forebody drag coefficient; $C_D - C_{D_b}$ |
| C_Y | CY | side-force coefficient; $\frac{\text{side force}}{qS}$ |
| C_m | CLM | pitching-moment coefficient; $\frac{\text{pitching moment}}{qS L_{REF}}$ |
| C_n | CLN | yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$ |
| C_l | CSL | rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$ |
| L/D | L/D | lift-to-drag ratio; C_L/C_D |
| L/D _f | L/DF | lift to forebody drag ratio; C_L/C_{D_f} |
| C_{A_c} | CAC | sting cavity axial force coefficient |

NOMENCLATURE (Continued)
Additions to Nomenclature

| <u>SYMBOL</u> | <u>PLOT SYMBOL</u> | <u>DEFINITION</u> |
|----------------|--------------------|--|
| δ_a | AILRON | aileron, total aileron deflection angle, degrees, (left aileron-right aileron)/2 |
| δ_e | ELEVON | elevon, surface deflection angle, positive deflection trailing edge down, (left aileron + right aileron)/2 |
| $C_{l_{RMS}}$ | CBLRMS | root mean square average value of the dynamic rolling moment coefficient |
| C_{ASc} | CAC | sting cavity axial-force coefficient |
| \bar{c}_e | | elevon mean aerodynamic chord, in. |
| S_e | | elevon planform area, ft |
| δ_{SB} | SPDBRK | speed brake deflection angle, degrees |
| δ_r | RUDDER | rudder deflection angle, degrees |
| δ_{BF} | BDFLAP | bodyflap deflection angle, degrees |
| X_{cp} | XCP | normal force center of pressure, $X_{cp} = XMRP - C_m \bar{c}_w / C_N$, inches |
| δ_{e_L} | ELVN-L | left elevon surface deflection angle, positive deflection trailing edge down, degrees |
| δ_{e_R} | ELVN-R | right elevon surface deflection angle, positive deflection trailing edge down, degrees |
| ΔC_L | DIIFCL | incremental lift force coefficient due to a change from baseline condition |
| ΔC_N | DIIFCN | incremental normal force coefficient due to a change from baseline condition |
| ΔC_A | DIIFCA | incremental axial force coefficient due to a change from baseline condition |
| ΔC_D | DIIFCD | incremental drag force coefficient due to a change from baseline condition |
| C_{p^b} | CPB | base pressure coefficient |

INTRODUCTION

The NASA is continuing experimental and analytical development of an aerodynamically sound and effective Space Shuttle vehicle. Extensive wind tunnel support has been devoted to this vehicle, especially the Orbiter Configuration, which is at present fixed in basic design. Several areas of concern have recently been noted from analysis of experimental data obtained in the numerous tests in various facilities which are the existence of regions of nonlinear aerodynamic characteristics significant enough to cause concern to control designers and, in some cases, disagreement between data obtained in the various facilities across the country.

Therefore, the Langley Research Center, in cooperation with Johnson Space Center and Rockwell International, has undertaken an experimental program to determine in detail the aerodynamic characteristics of a model of the Space Shuttle Orbiter. Attention will be given to conditions which have in past investigations shown regions of nonlinearity since detailed definitions in these regions are particularly important in the development of longitudinal and lateral control characteristics to be used in the vehicle control logic. In addition, in order to minimize the effects of configuration differences which may contribute to uncertainties, a single model will be tested in the following facilities:

Langley Research Center

8 Ft. Transonic Pressure Tunnel (Reference 1)
Low Turbulence Pressure Tunnel (Reference 2)
Unitary Plan Wind Tunnels No. 1 and 2 (References 3 and 4)

Ames Research Center

12 Ft. Transonic Pressure Tunnel (Reference 5)

Calspan

8 Ft. Transonic Wind Tunnel (Present Report)

LTV, Inc.

4 X 4 Ft. Supersonic Wind Tunnel (Reference 6)

The model was designed with remotely controlled elevons so that pitch and roll control effectiveness could be defined in small control increments over a wide range of control settings in an expedient manner.

INTRODUCTION (Concluded)

A large data base of aerodynamic characteristics will be determined in continuous flow lower Reynolds number facilities. Nonlinearities or other possible problem areas that appear in these low Reynolds number tests will be investigated in facilities which are capable of higher Reynolds numbers. At the conclusion of the overall program, aerodynamic data will be available in the Mach range from 0.25 to 4.6 on a single model and in a sufficiently wide range of Reynolds numbers to give a high degree of confidence in the data, and extrapolation to full scale conditions.

The purpose of the present paper is to present aerodynamic characteristics obtained in the Calspan Corporation 8-Foot Transonic Wind Tunnel at Mach numbers from 0.35 to 1.20 and at Reynolds numbers from 3.5×10^6 to 8.2×10^6 per foot. The angle of attack was varied from -2 to $+20$ degrees. Sideslip was varied from -6 to $+8$ degrees at constant angles of attack from 0 to $+20$ degrees. Aileron settings were varied from -5 to $+10$ degrees at elevon deflections of -10 , 0, and $+10$ degrees. Fixed aileron settings of 0 and $+2$ degrees in combination with various fixed elevon settings between -20 and $+5$ degrees were also run at varying angles of attack.

CONFIGURATIONS INVESTIGATED

Only one basic configuration of the Space Shuttle Vehicle Orbiter was tested. This configuration incorporates the latest design lines available as of December 1974. Only two variations were made to the basic configuration.

- a) RCS nozzles were run both open and closed as noted in Table II.
- b) Elevon gaps were run both sealed and open as noted in Table II.

Transition grit was used on the model for the entire program as noted below:

| <u>Model Component</u> | <u>Location</u> | <u>Strip Width</u> | <u>Grit Size</u> |
|------------------------|------------------------------|--------------------|------------------|
| Wing | .5" aft of L. E., streamwise | .10 in | 120 |
| Fillets | ↓ | ↓ | 100 |
| Vertical Tail | ↓ | ↓ | 120 |
| Fuselage | 1.2" aft of nose | ↓ | 120 |

The test model was a 0.015-scale model of the Space Shuttle Orbiter (figures 2a-2b). The model was constructed at the Langley Research Center using the nose section forward of full-scale fuselage station 672.8, the vertical tail and OMS pods from an existing Rockwell model 49-0. The remainder of the model, the wings, elevons, and body were constructed from Rockwell-furnished line details. The elevon position was determined by high resolution potentiometers mounted on the pivot axis of the elevons, thus giving the true position of the elevon under load at all times. The accuracy of the elevon position is the read-out accuracy of the potentiometer, which was determined to be within 0.2 degree.

The model configuration is summarized as follows:

Orbiter - 140A/B/C = B₂₆ C₉ E₄₃ F₈ M₁₆ N₂₈ R₅ V₈ W

| <u>Component</u> | <u>Definition</u> |
|------------------|---|
| B ₂₆ | Fuselage per Rockwell Lines VL70-000140A VL70-000140B (Model SS-A00147) |
| C ₉ | Canopy per Rockwell Lines VL70-000140A and VL70-000143B (Model SS-A00147) |
| E ₄₃ | Slotted version (6-inch) of E ₂₆ elevons per Rockwell VL70-000145 (Model drawing SS-A00147) |

CONFIGURATIONS INVESTIGATED (Concluded)

| <u>Component</u> | <u>Definition</u> |
|------------------|---|
| F ₈ | Body flap per Rockwell Lines VL70-000145 (Model drawing SS-A00147) |
| M ₁₆ | OMS/RCS pods per Rockwell Lines VL70-0084010 (Model drawing SS-A00147) |
| N ₂₈ | OMS engine nozzle per Rockwell Lines VL70-000145 (Model drawing SS-A00147) |
| R ₅ | Rudder per Rockwell Lines VL70-000146A (Model drawing SS-A00148) |
| V ₈ | Vertical tail per Rockwell Lines VL70-000146A (Model drawing SS-A00148) |
| W | Wing per Rockwell VL70-30-906-01 (Basic control drawing). |

A complete description of model dimensional data is given in table III.

TEST FACILITY DESCRIPTION

The tunnel has a perforated throat and an auxiliary pumping system for plenum pumping. The continuous circuit tunnel is capable of operating from 1/6 to 2.5 atmospheres total pressure. The range of operating pressures is necessarily limited by the total power available at the higher Mach numbers. The tunnel is pumped to these conditions by four centrifugal compressors for above one atmosphere testing and by seven compressors for below one atmosphere. The tunnel can be evacuated to 800 psf total pressure by the auxiliary compressor from atmospheric pressure. This procedure takes approximately 8 minutes. Consequently, at least an initial expenditure of time is necessary to bring the tunnel to the desired operating conditions. During model changes, two gate valves isolate the test section from the tunnel proper, making it necessary to bring only the test sphere to atmospheric conditions. By careful planning of the test program, it is then possible to reduce pumping time to a minimum.

The test section of the tunnel is a removable cart, which, in many instances, permits the model to be pre-installed to be tested. This saves tunnel time. Three carts are in use: a sting cart for testing sting-mounted, full-span models, a reflection plane cart for use with semi-span reflection plane models, and a fairing cart for full-span models mounted from a plate.

Low speed airflow calibrations have been performed for free-stream velocities from 5 to 90 FPS. Velocities in this range are steady and can be set accurately using a fixed main drive blade angle and varying the rpm. Low speed tests may be run within the operating tunnel densities of 1/6 of an atmosphere to 2.5 atmospheres.

TEST PROCEDURE

The LTV VB-36 internal 6-component strain gage balance was calibrated at Calspan prior to testing by applying static loads in accordance with procedures described in Reference 7. Deflection characteristics of the balance and sting support system were obtained during the calibration. Potentiometers used to set elevon deflections were also calibrated prior to testing.

The balance calibration was performed to maximum expected loads as listed in Table I. Static calibration check loads were applied to the model prior to testing. Applied loads and calculated results for all balance loadings agreed within .25% of full scale balance design loads. These loadings verified both the data reduction program and the balance performance before any test data were taken. The results of all calibrations and check loadings are on file at Calspan.

All transducers were calibrated prior to testing in accordance with procedures described in Reference 8. These calibrations were performed in order to determine a calibration constant and to check the linearity and repeatability of each transducer. The angle of attack systems were calibrated prior to testing and were periodically checked throughout the test program.

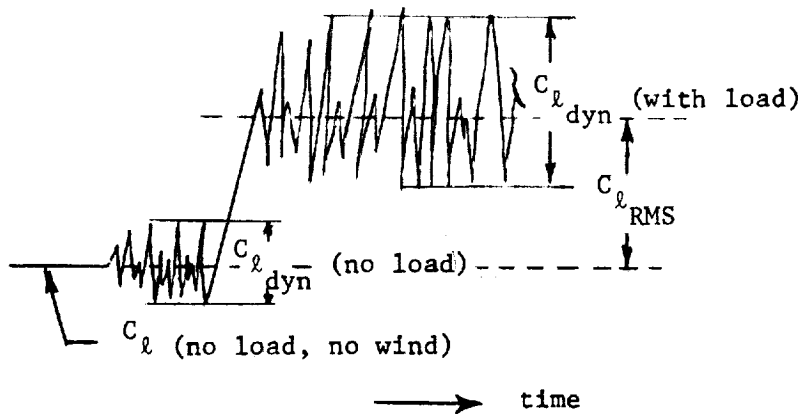
The program consisted of 299 runs, during which model configuration, model attitude, elevon and aileron deflection angles, Mach number, and Reynolds number were varied. The first four runs were in-tunnel check loads to verify all strain gage balance instrumentation. The basic Shuttle Orbiter configuration 44-0 was tested with the RCS nozzles closed (filled with plaster) and the elevon gaps open. Attitude variations included angle of attack, angle of sideslip, and aileron deflection angle. The RCS nozzles were then opened and attitude variations of angle of attack and elevon deflection angle were run at Mach numbers of .60 and .90. The last configuration change consisted of sealing the elevon gaps. This configuration was then run for the remainder of the program through the attitude, Reynolds number and Mach number variations outlined in Table I. Oil flow visualization photographs were taken periodically throughout the test program.

INSTRUMENTATION

Model forces and moments were measured with the LTV VB-36 six-component strain gage balance. The rolling moment component from the balance was also processed dynamically by Calspan averaging equipment to give a root mean square average of the dynamic component.* Two balance cavity pressure orifices were installed on the sting just aft of the balance and two base pressure orifices were installed on the sting just inside the model base. The orifices were connected to transducers in scanivalves mounted on the sting support pod.

Model angle of attack was set and computed from measurements made of the sting support pod position, sensed by a potentiometer on the pod jack-screw and read on a digital voltmeter. A Columbia inclinometer was attached to the pod as a backup angle of attack device, and an electrolytic potentiometer was installed in the model at balance level conditions to set zero-in conditions. Elevon angle settings were set and computed from measurements sensed by potentiometers mounted on the model. All strain gage outputs were read on the Calspan high-speed digital readout system and were processed into final computed data by Calspan's General Automation 1830 computer.

*definition of dynamic rolling moment coefficient, $C_{\ell_{dyn}}$, and root mean square (RMS) average value of rolling moment coefficient.



DATA REDUCTION

No wind tunnel wall corrections have been applied to the data presented in this report to account for the blocking effect of the model or for wall constraining effects on transverse flow. Within the limitations of theoretical computations, these corrections are believed to be negligible in this perforated test section with the model installed. Above Mach number one, the perforated walls are effective in attenuating shock and expansion waves from the model, thus reducing the effects of wall reflections. Although complete attenuation is not attained, in general, experience has indicated that the effect of residual reflections is negligible on this size model except perhaps for the drag component where some interference may be expected in the Mach number region around 1.05. Some experimental substantiation of this belief, together with a discussion of some recent studies of wall effects and blockage, along with the Calspan 8-Foot Transonic Tunnel calibration data, are presented in Reference 9.

No buoyancy correction was made to axial force as the clear tunnel pressure gradients in the vicinity of this model have been found to be negligible throughout the Mach number range.

The main balance was corrected for mechanical interactions present in the balance system used during this program. These correction factors were obtained during the static calibration of the balance systems and are on file at Calspan.

Static tare corrections to the main balance data were determined during wind-off runs of the various configurations. These corrections were then applied to all wind-on data for the same configurations.

Wind-off balance level conditions for zero-in settings were obtained with the electrolytic bubble levels installed in the model. Wind-on model angles were determined from readings of the sting support strut potentiometer, corrected for deflections of the balance, sting, and support system. Deflection derivatives for all of these corrections were determined during static calibration of the balance.

Axial force and drag coefficients were corrected to a condition of

DATA REDUCTION - (Continued)

free-stream static pressure acting over the balance cavity and model base areas.

It is estimated that model angles measured during this program are accurate to +0.1 degree.

A statistical determination of the accuracies of the strain gage balance systems used during this program was accomplished by calculating the root mean square difference between applied and computed loads. Computed loads were determined from final balance constants and balance readings produced by known calibration loads.

Pressure transducer calibrations used for this program were accurate within +1.0 pound per square foot.

No satisfactory method is known for determining the absolute accuracy of the final coefficients. However, since the test procedure resulted in the repetition of at least one model attitude during each run the repeatability of the test data may be estimated. Orbiter aerodynamic coefficients were examined at the various repeat points with the results listed below:

| <u>Orbiter Coefficients</u> | <u>RMS Deviations</u> | <u>Orbiter Coefficients</u> | <u>RMS Deviations</u> |
|-----------------------------|-----------------------|--------------------------------|-----------------------|
| C_L, C_N | $\pm .0041$ | C_{pc} | $\pm .003$ |
| C_m, C_{mB} | $\pm .0011$ | $\Delta C_{Ab}, \Delta C_{Db}$ | $\pm .0003$ |
| C_Y, C_{YB} | $\pm .0021$ | $\Delta C_{Ac}, C_{Dc}$ | $\pm .0002$ |
| C_n, C_{nB} | $\pm .0005$ | δ_{eL} | $\pm .020^\circ$ |
| $C_\ell, C_{\ell B}$ | $\pm .0005$ | δ_{eR} | $\pm .035^\circ$ |
| C_D, C_A | $\pm .0011$ | δ_a | $\pm .016^\circ$ |
| C_{pb} | $\pm .003$ | | |

DATA REDUCTION (Concluded)

Measured data were reduced to coefficient form using the following dimensional data:

SREF = 2690 ft²
LREF = 474.8 in.
BREF = 936.68 in.

Location of the moment reference point is as follows:

XMRP = 1076.7 in.
YMRP = 0 in.
ZMRP = 375 in.

REFERENCES

1. Chrysler Corporation, Data Management Services Report DMS-DR-2264.
2. Chrysler Corporation, Data Management Services Report DMS-DR-2300.
3. Chrysler Corporation, Data Management Services Report DMS-DR-2270.
4. Chrysler Corporation, Data Management Services Report DMS-DR-2279.
5. Chrysler Corporation, Data Management Services Report DMS-DR-2281.
6. Chrysler Corporation, Data Management Services Report DMS-DR-2266.
7. Hutka, D. A.:
"Procedure and Results of Strain Gage Balance Calibration," Calspan Corporation Report No. WTO-479, December, 1960.
8. Cochi, R. J.:
"Calibration of Consolidated Electrodynamics Corporation Pressure Transducers," Calspan Corporation Report No. WTO-509, June, 1963.
9. Reid, C. F., Jr.:
"Results of Calibrations and Model Tests in the CAL 8-Foot Transonic Wind Tunnel, with Varying Wall Porosity and Test Section Configurations (U)," Calspan Corporation Report No. AA-4018-W-3, September 1971.

TABLE II

| TEST: T18-103 (IA-70) | | DATA SET/RUN NUMBER COLLATION SUMMARY | | | | | | | | | | DATE: 10-2-75 | | | | | | |
|-----------------------|--|---------------------------------------|---------|-------------------|------------|-------------|--|------|-----|----|----|---------------|----|-----|-----|------|------|------|
| DATA SET IDENTIFIER | CONFIGURATION | SCHD. | | PARAMETERS/VALUES | | NO. OF RUNS | MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) | | | | | | | | | | | |
| | | α | β | δe | δa | | PER | RN/L | .35 | .5 | .6 | .8 | .9 | .95 | .98 | 1.05 | 1.12 | 1.20 |
| RUK001 | Orbiter 2 - <i>Open Orbit</i> | A | 0 | 0 | 0 | 3.5 | | | | | 8 | 7 | | | | | | |
| 02 | | | 2 | | | 3.5 | | | | | 9 | | | | | | | |
| 03 | | | -2 | | | 3.5 | | | | | 10 | | | | | | | |
| 04 | | | 0 | | | 4.5 | | | | | 17 | 16 | 15 | | | | | |
| 05 | | | -2 | | | 4.5 | | | | | 18 | | | | | | | |
| 06 | | | 2 | | | 4.5 | | | | | 19 | | | | | | | |
| 07 | | | 0 | B | | 3.5 | | | | | 11 | | | | | | | |
| 08 | | | 13 | | | 3.5 | | | | | 12 | | | | | | | |
| 09 | | | 0 | | | 4.5 | | | | | 20 | | | | | | | |
| 10 | | | 13 | | | 4.5 | | | | | 21 | | | | | | | |
| 11 | | | | | | 8.0 | | | | | 28 | | | | | | | |
| 12 | | | 0 | 0 | C | 3.5 | | | | | 14 | | | | | | | |
| 13 | | | 13 | | | 3.5 | | | | | 13 | | | | | | | |
| 14 | | | 0 | | | 4.5 | | | | | 23 | | | | | | | |
| 15 | | | 13 | | | 4.5 | | | | | 22 | | | | | | | |
| 16 | | | | | | 8.0 | | | | | 26 | 29 | | | | | | |
| 17 | | | | | | 8.0 | | | | | 27 | | | | | | | |
| RUKxxxI- | CN: CAI CLMI CMI CNI CNY CNI CYN CBI CBLI CBLI CBI CDI CDL MACH ALPHA/BETA | | | | | | | | | | | | | | | | | |
| SUKxxxI- | ELVN-LI ELVN-R1 CAE1 CPMI CPBI CPC1 CBLMS1 XCP1 CAB1 CAC1 | | | | | | | | | | | | | | | | | |

TEST RUN NUMBERS

TYPE OF DATA
 α OR β SCHEDULES

COEFFICIENT SCHEDULES
 A) $\alpha = -2, 0, 2, 4, 6, 8, 10, 11, 12, 13, 14, 15, 16, 18$
 B) $\beta = -6, -4, -2, -1, 0, 1, 2, 4, 6$

10VAR (1) 10VAR (2) NDV
 C) $\delta a = -5^\circ$ to 10° for all δe except $+10^\circ$.
 $\delta a = -5^\circ$ to 5° for $\delta e = 10^\circ$.

TABLE II - (Continued)

| TEST : TL8-103 (LA-70) | | DATA SET/RUN NUMBER COLLATION SUMMARY | | | | | | | | | | DATE : 10-2-75 | | | | | | | |
|------------------------|-------------------|---------------------------------------|---------|-------------------|------------|-----------------|-------------|--|-----|-----|-----|----------------|-----|-----|-----|------|------|------|-----|
| DATA SET IDENTIFIER | CONFIGURATION | SCHD. | | PARAMETERS/VALUES | | | NO. OF RUNS | MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) | | | | | | | | | | | |
| | | α | β | δe | δa | $\delta \theta$ | | $\delta \phi$ | .35 | .5 | .6 | .8 | .9 | .95 | .98 | 1.05 | 1.12 | 1.20 | |
| RUK018 | Orbiter - (LA-70) | A | 0 | 0 | 0 | 0 | 8.0 | | | 25 | | | | | | | | | |
| 19 | | | | | | | 3.5 | | | 30 | | | | | | | | | |
| 20 | | | | | | | 4.5 | | | | | | | 38 | | | | | |
| 21 | | | | 2 | | | 3.5 | | | 31 | | | | | | | | | |
| 22 | | | | | | | 4.5 | | | | | | | 37 | | | | | |
| 23 | | | | 10 | 0 | | 3.5 | | | 32 | | | | | | | | | |
| 24 | | | | | | | 4.5 | | | | | | | 36 | | | | | |
| 25 | | | | 2 | | | 3.5 | | | 33 | | | | | | | | | |
| 26 | | | | | | | 4.5 | | | | | | | 35 | | | | | |
| 27 | Orbiter - (LA-70) | | | 0 | 0 | | 3.5 | | | 43 | | | | | | | | | |
| 28 | | | | | | | 4.5 | | 212 | 125 | 154 | 50 | 185 | 291 | 247 | 293 | | | |
| 29 | | | | | | | 4.5 | | | | | 59 | 266 | 278 | | | | | |
| 30 | | | | | | | 4.0 | | | | | | | | | | | | 192 |
| 31 | | | | | | | 8.0 | | | 93 | | 56 | | | | | | | |
| 32 | | | | 2 | | | 3.5 | | | 44 | | | | | | | | | |
| 33 | | | | | | | 4.5 | | | 132 | | 49 | 188 | 281 | 250 | | | | |
| 34 | | | | | | | 4.0 | | | | | | | | | | | | 198 |

TYPE OF DATA
 α OR β
SCHEDULES

COEFFICIENT SCHEDULES

IDVAR (1) IDVAR (2) NDV

TABLE II - (Continued)

| TEST: T18-103 (IA-70) | | DATA SET/RUN NUMBER COLLATION SUMMARY | | | | | | | | | | DATE: 10-2-75 | | | | | | | | | |
|-----------------------|-----------------------------------|---------------------------------------|---------|-------------------|------------|-------------|--|----|------|-----|-----|---------------|----|----|-----|-----|------|------|------|-----|-----|
| DATA SET IDENTIFIER | CONFIGURATION | SCHD. | | PARAMETERS/VALUES | | NO. OF RUNS | MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) | | | | | | | | | | | | | | |
| | | α | β | δa | δb | | Ports | RV | OPEN | .35 | .5 | .6 | .8 | .9 | .95 | .98 | 1.05 | 1.12 | 1.20 | | |
| RUK069 | Opt. iter. - Gap Searched Grid On | 0 | B | 0 | 0 | 4.0 | | | | | | | | | | | | | | 222 | |
| 70 | | | | | | 8.0 | | | | | 94 | | | | | | | | | | |
| 71 | | 5 | | | | 4.5 | | | | | 135 | | | | | | | | | | |
| 72 | | | | | | 4.0 | | | | | | | | | | 157 | 283 | 237 | | | |
| 73 | | | | | | 8.0 | | | | | | | | | 164 | | | | | | 223 |
| 74 | | 10 | | | | 4.5 | | | | | 136 | | | | | | | | | | |
| 75 | | | | | | 4.0 | | | | | | | | | 67 | 158 | 284 | 238 | 298 | | |
| 76 | | 12 | | | | 8.0 | | | | | 210 | | | | | | | | | | 224 |
| 77 | | 20 | | | | 3.5 | | | | | 215 | | | | | | | | | | |
| 78 | | | | | | 4.5 | | | | | 213 | | | | | | | | | | |
| 79 | | 15 | | | | 4.5 | | | | | 137 | | | | 68 | 160 | 285 | 239 | | | |
| 80 | | | | | | 4.0 | | | | | | | | | | | | | | | 225 |
| 81 | | | | | | 3.5 | | | | | 216 | | | | | | | | | | |
| 82 | | | | | | 4.5 | | | | | 214 | | | | | 265 | | | | | |
| 83 | | | | | | 8.0 | | | | | 211 | | | | | 264 | | | | | |
| 84 | | 20 | | | | 4.5 | | | | | 138 | | | | 69 | 159 | | | | | |
| 85 | | | | | | 4.0 | | | | | | | | | | | | | | | 226 |

TYPE OF DATA
 α OR β
 SCHEDULES

COEFFICIENT SCHEDULES

IDVAR (1) IDVAR (2) NDV

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT BODY - B₂₆

GENERAL DESCRIPTION Configuration 140A/B Orbiter Fuselage

NOTE: B₂₆ is identical to B₂₄, except underside of fuselage has been repaired to accept W

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER VL70-000143B, -000200, 000205, -006089, -000145, -000140A, 000140B

| DIMENSIONS | FULL SCALE | MODEL SCALE |
|---|------------|-------------|
| *Length (OML: Fwd Sta. X ₀ =235) - In. | 1293.3 | 19.400 |
| *Length (IML: Fwd Sta. X ₀ =238) - In. | 1290.3 | 19.355 |
| * Max Width (@ X = 1528.3) - In. | 264.0 | 3.960 |
| Max Depth (@ X ₀ = 1464) - In. | 250.0 | 3.750 |
| Fineness Ratio | | |
| Area Ft ² | | |
| Max. Cross-Sectional | 340.88 | 0.077 |
| Planform | | |
| Wetted | | |
| Base | | |

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT CANOPY - C₉

GENERAL DESCRIPTION Configuration 3A, Canopy used with Fuselage

B₂₆

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER VI70-000143A & B

| DIMENSIONS : | FULL SCALE | MODEL SCALE |
|---------------------------------------|-----------------------------|-----------------------------|
| * Length ($X_0 = 434.643$ to 578) | <u>143.357</u> | <u>2.150</u> |
| Max Width (@ $X_0 = 513.127$) | <u>152.412</u> | <u>2.286</u> |
| Max Depth (@ $X_0 = 485.0$) | <u>25.000</u> | <u>0.375</u> |
| Fineness Ratio | <u> </u> | <u> </u> |
| Area | <u> </u> | <u> </u> |
| Max. Cross-Sectional | <u> </u> | <u> </u> |
| Planform | <u> </u> | <u> </u> |
| Wetted | <u> </u> | <u> </u> |
| Base | <u> </u> | <u> </u> |

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: SLOTTED ELEVON (6-INCH GAP) - E₄₃

GENERAL DESCRIPTION: Configuration 140A/B Orbiter elevon.

NOTE: E₄₃ is a slotted version of E₂₆. Data are for one side.

MODEL SCALE: 0.015 Model drawing SS-A00148

DRAWING NUMBER: VL70-000200, VL70-006089, VL006092

| <u>DIMENSIONS:</u> | <u>FULL-SCALE</u> | <u>MODEL SCALE</u> |
|---|-------------------|--------------------|
| Area - Ft ² | <u>210.0</u> | <u>0.0473</u> |
| Span (equivalent) - In. | <u>349.2</u> | <u>5.238</u> |
| Inb'd equivalent chord In. | <u>118.004</u> | <u>1.770</u> |
| Outb'd equivalent chord In. | <u>55.192</u> | <u>0.828</u> |
| Ratio movable surface chord/ total surface chord | | |
| At Inb'd equiv. chord | <u>0.2096</u> | <u>0.2096</u> |
| At Outb'd equiv. chord | <u>0.4004</u> | <u>0.4004</u> |
| Sweep Back Angles, degrees | | |
| Leading Edge | <u>0.00</u> | <u>0.00</u> |
| Trailing Edge | <u>-10.056</u> | <u>-10.056</u> |
| Hingeline | <u>0.00</u> | <u>0.00</u> |
| Area Moment (Product of Area and \bar{c}) - Ft ³ | <u>1587.25</u> | <u>0.07536</u> |
| Mean Aerodynamic Chord (\bar{c}), in. | <u>90.7</u> | <u>1.3605</u> |

TABLE III. - MODEL DIMENSIONAL DATA- Continued.

MODEL COMPONENT : BODY FLAP - Fg

GENERAL DESCRIPTION : Configuration 140A/B Orbiter Body Flap.

Hingeline located at $X_o = 1528.3$, $Z_o = 284.3$

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147. RELEASE 12

DRAWING NUMBER : VL7-000140A, VL70-000145

| DIMENSIONS : | FULL SCALE | MODEL SCALE |
|---|-----------------------------|-----------------------------|
| Length ($X_o=1520$ TO $X_o=1613$) In. | <u>93.000</u> | <u>1.395</u> |
| Max Width (In.) | <u>262.00</u> | <u>3.930</u> |
| Max Depth ($X_o = 1520$) - In. | <u>23.000</u> | <u>0.345</u> |
| Fineness Ratio | <u> </u> | <u> </u> |
| Area - Ft ² | <u> </u> | <u> </u> |
| Max. Cross-Sectional | <u> </u> | <u> </u> |
| Planform | <u>150.525</u> | <u>0.0339</u> |
| Wetted | <u> </u> | <u> </u> |
| Base | <u>41.84722</u> | <u>0.00941</u> |

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: OMS Pod (M16)

GENERAL DESCRIPTION: Configuration 140D Orbiter OMS-Pod

Model Scale = 0.015,

Model Drawing No. SS-A00147

DRAWING NUMBER

VL70-000140D

VL70-008410

DIMENSION:

| | <u>FULL SCALE</u> | <u>MODEL SCALE</u> |
|--|-------------------|--------------------|
| Length (OMS Fwd Sta $X_0=1310.5$)-In. | <u>258.5</u> | <u>3.878</u> |
| Max Width (@ $X_0 = 1511$)-In. | <u>136.8</u> | <u>2.052</u> |
| Max Depth (@ $X_0 = 1511$)-In. | <u>74.7</u> | <u>1.121</u> |
| Fineness Ratio | <u>2.484</u> | <u>2.484</u> |
| Area - FT ² | | |
| Max Cross-Sectional | <u>58.864</u> | <u>0.0132</u> |
| Planform | <u> </u> | <u> </u> |
| Wetted | <u> </u> | <u> </u> |
| Base | <u> </u> | <u> </u> |

TABLE III. - MODEL DIMENSIONAL DATA-Continued

MODEL COMPONENT: OMS NOZZLES - N₂₈

GENERAL DESCRIPTION: Configuration 110A/B Orbiter OMS Nozzles

MODEL SCALE: 0.015 MODEL DRAWING: SS-000147 RELEASE 5 (Contour)

DRAWING NUMBER: VL70-000145, (Location)

| DIMENSIONS: | <u>FULL SCALE</u> | <u>MODEL SCALE</u> |
|------------------------------|-----------------------------|-----------------------------|
| MACH NO. | | |
| Length - In. | | |
| Gimbal Point to Exit Plane | <u> </u> | <u> </u> |
| Throat to Exit Plane | <u> </u> | <u> </u> |
| Diameter - In. | | |
| Exit | <u> </u> | <u> </u> |
| Throat | <u> </u> | <u> </u> |
| Inlet | <u> </u> | <u> </u> |
| Area - ft ² | | |
| Exit | <u> </u> | <u> </u> |
| Throat | <u> </u> | <u> </u> |
| Gimbal Point (Station) - In. | | |
| Left Nozzle | | |
| X _o | <u>1518.0</u> | <u>22.770</u> |
| Y _o | <u>- 88.0</u> | <u>- 1.320</u> |
| Z _o | <u>492.0</u> | <u>7.380</u> |
| Right Nozzle | | |
| X | <u>1518.0</u> | <u>22.770</u> |
| Y | <u>+ 88.0</u> | <u>+ 1.320</u> |
| Z | <u>492.0</u> | <u>7.380</u> |
| Null Position - Deg. | | |
| Left Nozzle | | |
| Pitch | <u>15°49'</u> | <u>15°49'</u> |
| Yaw | <u>12°17'</u> | <u>12°17'</u> |
| Right Nozzle | | |
| Pitch | <u>15°49'</u> | <u>15°49'</u> |
| Yaw | <u>12°17'</u> | <u>12°17'</u> |

*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: RUDDER - R₆

GENERAL DESCRIPTION: 2A, 3, 3A and 140A/B Configurations

MODEL SCALE: 0.015 Model drawing SS-A00148

DRAWING NUMBER: VL70-000146A, VL70-000095, VL70-000139.

| <u>DIMENSIONS:</u> | <u>FULL-SCALE</u> | <u>MODEL SCALE</u> |
|--|-------------------|--------------------|
| *Area- Ft ² | <u>100.15</u> | <u>0.0225</u> |
| Span (equivalent) - In | <u>201.0</u> | <u>3.015</u> |
| Inb'd equivalent chord - In. | <u>91.585</u> | <u>1.3738</u> |
| Outb'd equivalent chord - In. | <u>50.833</u> | <u>0.7625</u> |
| Ratio movable surface chord/ total surface chord | | |
| At Inb'd equiv. chord | <u>0.400</u> | <u>0.400</u> |
| At Outb'd equiv. chord | <u>0.400</u> | <u>0.400</u> |
| Sweep Back Angles, degrees | | |
| Leading Edge | <u>34.83</u> | <u>34.83</u> |
| Trailing Edge | <u>26.25</u> | <u>26.25</u> |
| Hingeline | <u>34.83</u> | <u>34.83</u> |
| * Area Moment (Product of area & \bar{c})-Ft ³ | <u>610.92</u> | <u>0.002</u> |
| *Mean Aerodynamic Chord, In. | <u>73.2</u> | <u>1.098</u> |

TABLE III. - MODEL DIMENSION/L DATA - Continued.

MODEL COMPONENT: VERTICAL - V8

GENERAL DESCRIPTION: Configuration 140A/B Orbiter Vertical Tail

MODEL SCALE: 0.015

MODEL DRAWING: SS-100148, RELEASE 6

DRAWING NUMBER: VL70-000146A

DIMENSIONS: FULL SCALE MODEL SCALE

TOTAL DATA

| | | |
|-------------------------------|----------------|---------------|
| Area (Theo) - Ft ² | | |
| Planform | <u>413.253</u> | <u>0.093</u> |
| Span (Theo) - In. | <u>315.720</u> | <u>4.736</u> |
| Aspect Ratio | <u>1.675</u> | <u>1.675</u> |
| Rate of Taper | <u>0.507</u> | <u>0.507</u> |
| Taper Ratio | <u>0.404</u> | <u>0.404</u> |
| Sweep-Back Angles, Degrees. | | |
| Leading Edge | <u>45.000</u> | <u>45.000</u> |
| * Trailing Edge | <u>26.2</u> | <u>26.2</u> |
| 0.25 Element Line | <u>41.130</u> | <u>41.130</u> |
| Chords: | | |
| Root (Theo) WP | <u>268.500</u> | <u>4.028</u> |
| Tip (Theo) WP | <u>108.470</u> | <u>1.627</u> |
| MAC | <u>192.808</u> | <u>2.997</u> |
| Fus. Sta. of .25 MAC | <u>1463.50</u> | <u>21.953</u> |
| W.P. of .25 MAC | <u>635.522</u> | <u>9.533</u> |
| B.L. of .25 MAC | <u>0.00</u> | <u>0.00</u> |
| Airfoil Section | | |
| Leading Wedge Angle - Deg. | <u>10.00</u> | <u>10.00</u> |
| Trailing Wedge Angle - Deg. | <u>14.920</u> | <u>14.920</u> |
| Leading Edge Radius | <u>2.00</u> | <u>0.030</u> |
| Void Area | <u>13.17</u> | <u>0.003</u> |
| Blanketed Area | <u>0.00</u> | <u>0.00</u> |

TABLE III. - MODEL DIMENSIONAL DATA - Concluded. *REVISED 4/24/74

MODEL COMPONENT: WING-W

GENERAL DESCRIPTION: Configuration 4

NOTE: Identical to W₁₁₄ except airfoil thickness. Dihedral angle is along trailing edge of wing.

MODEL SCALE: 0.015

Model drawing SS-A00148

TEST NO.

DWG. NO. V70-30-906-01 (BCD)

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

| | | |
|------------------------------|----------|----------|
| Area (theo.) Ft ² | 2600.00 | 0.605 |
| Planform | 937.68 | 14.000 |
| Span (Theo) In. | 2.265 | 2.265 |
| Aspect Ratio | 1.177 | 1.177 |
| Rate of Taper | 0.300 | 0.300 |
| Taper Ratio | 3.500 | 3.500 |
| Dihedral Angle, degrees | 0.500 | 0.500 |
| Incidence Angle, degrees | + 3.000 | + 3.000 |
| Aerodynamic Twist, degrees | | |
| Sweep Back Angles, degrees | | |
| Leading Edge | 45.000 | 45.000 |
| Trailing Edge | - 10.056 | - 10.056 |
| 0.25 Element Line | 35.200 | 35.200 |
| Chords: | | |
| Root (Theo) B.P.O.O. | 609.24 | 10.330 |
| Tip, (Theo) B.P. | 137.85 | 2.068 |
| MAC | 474.31 | 7.120 |
| *Fus. Sta. of .25 MAC | 1135.88 | 17.700 |
| * W.P. of .25 MAC | 294.30 | 4.415 |
| * B.L. of .25 MAC | 182.13 | 2.777 |

EXPOSED DATA

| | | |
|-------------------------------|---------|--------|
| * Area (Inco) Ft ² | 1751.50 | 0.394 |
| * Span, (Theo) In. BP108 | 720.68 | 10.810 |
| * Aspect Ratio | 2.050 | 2.050 |
| Taper Ratio | 0.245 | 0.245 |
| Chords | | |
| * Root BP108 | 562.09 | 8.431 |
| Tip 1.00 $\frac{b}{2}$ | 137.85 | 2.068 |
| * MAC | 392.83 | 5.802 |
| * Fus. Sta. of .25 MAC | 1185.08 | 17.700 |
| * W.P. of .25 MAC | 294.30 | 4.415 |
| * B.L. of .25 MAC | 251.77 | 3.777 |

Airfoil Section (Rockwell Mod NASA)
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| | | |
|----------------------|-------|-------|
| Root $\frac{b}{2}$ = | 0.113 | 0.113 |
| Tip $\frac{b}{2}$ = | 0.12 | 0.12 |

Data for (1) of (2) Sides

| | | |
|---|---------|--------|
| Leading Edge Cuff | | |
| *Planform Area Ft ² | 113.18 | 0.025 |
| * Leading Edge Intersects Fus M. L. @ Sta | 500.0 | 7.500 |
| * Leading Edge Intersects Wing @ Sta | 1024.00 | 15.360 |

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

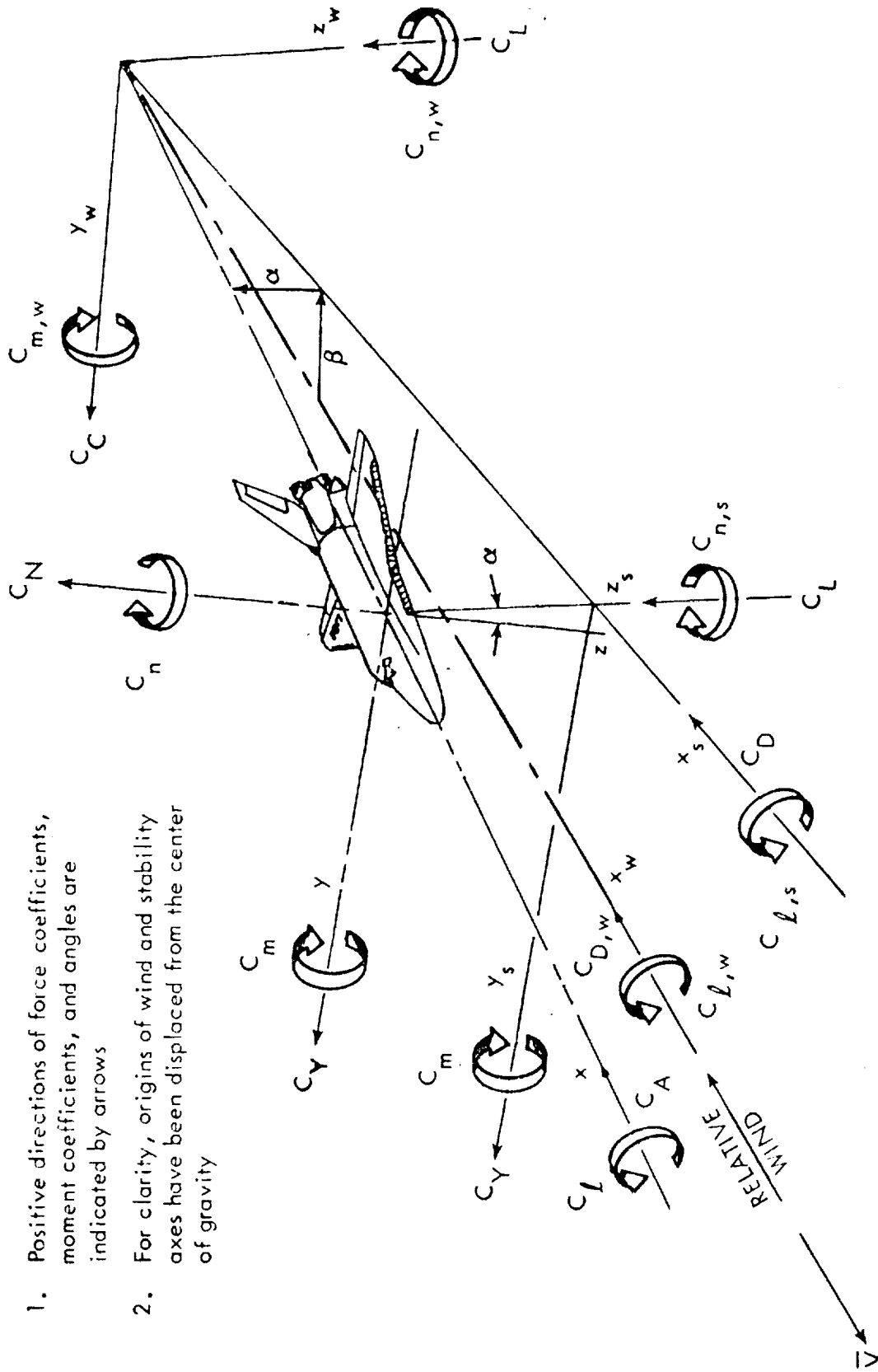
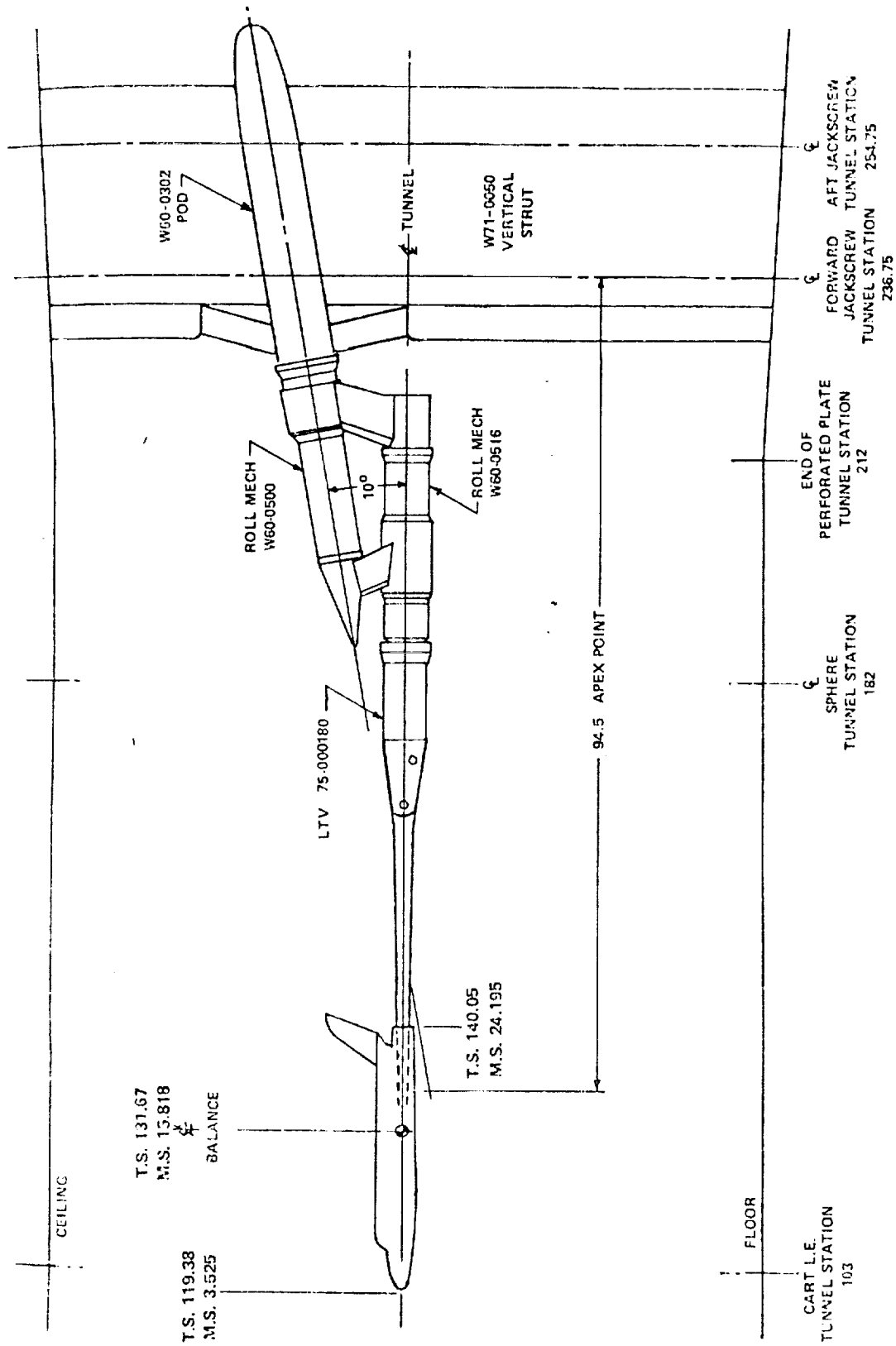
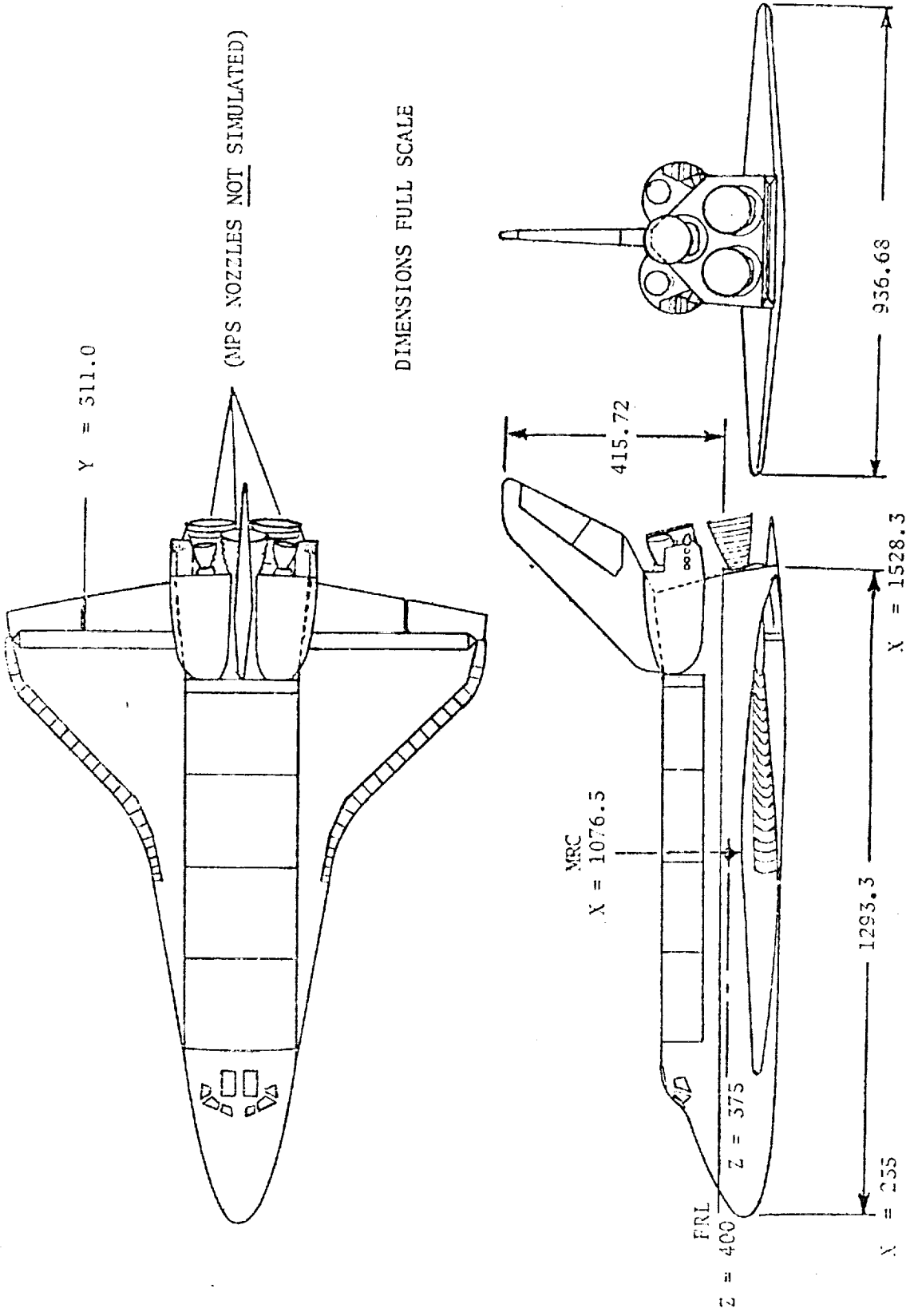


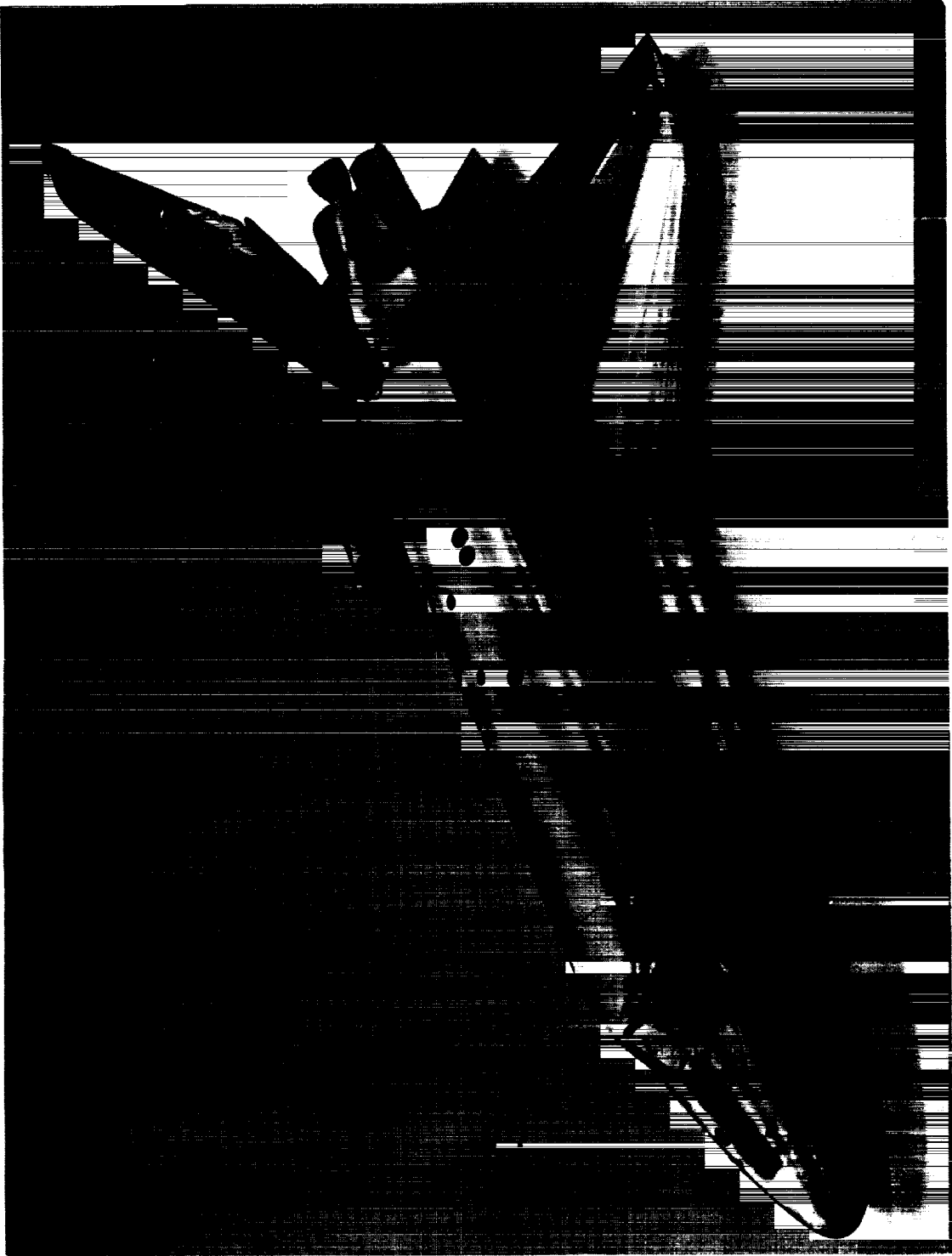
Figure 1. - Axis Systems.



(a) Installation Drawing .015 Scale Space Shuttle Orbiter Model
 Figure 2. - Model Sketches.



(b) Shuttle Orbiter General Arrangement
Figure 2. - Concluded.



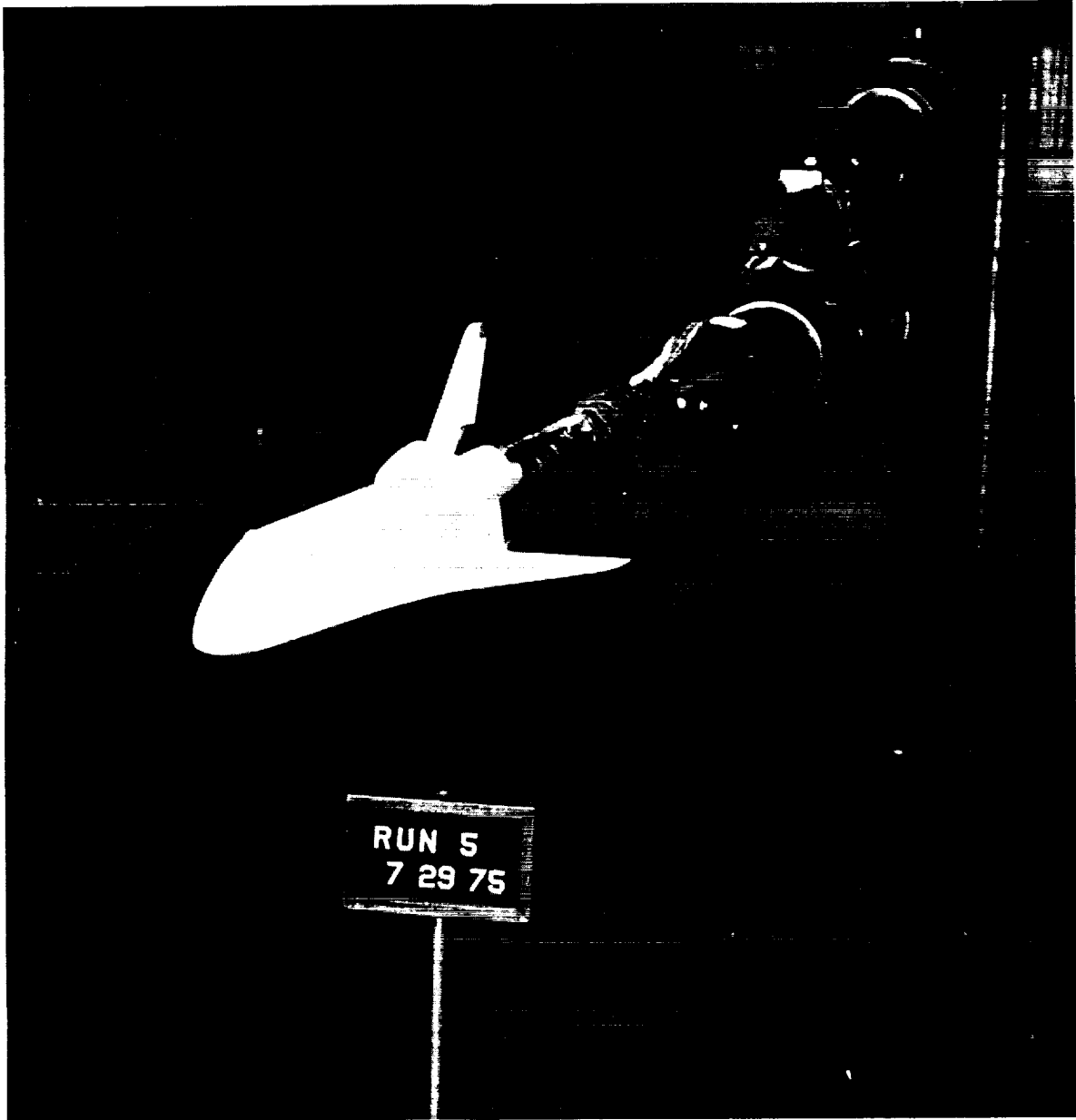
a. Orbiter Configuration, Front, 3/4 View

Figure 3. Model Photographs

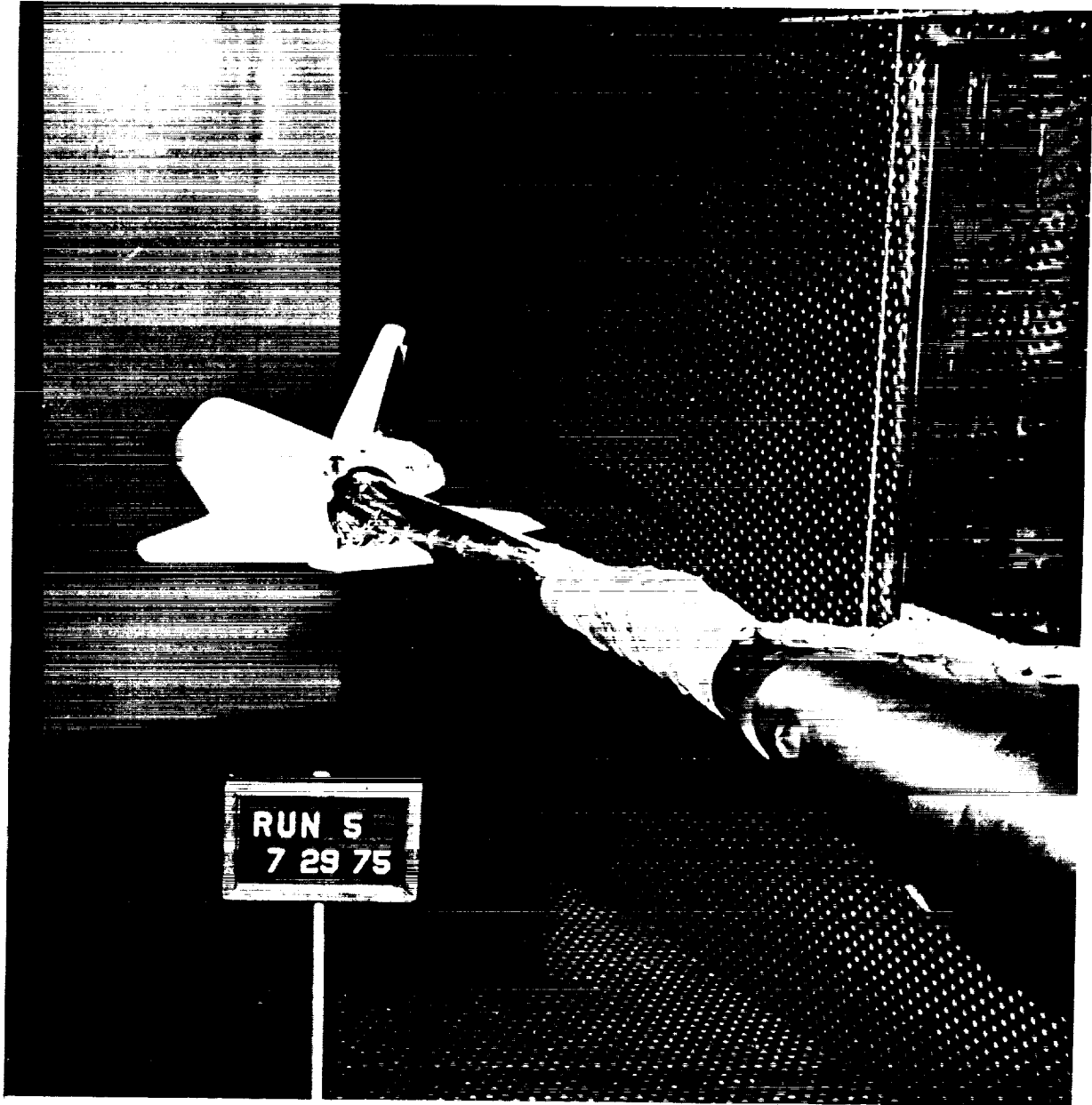


b. Orbiter Configuration, Rear, 3/4 View

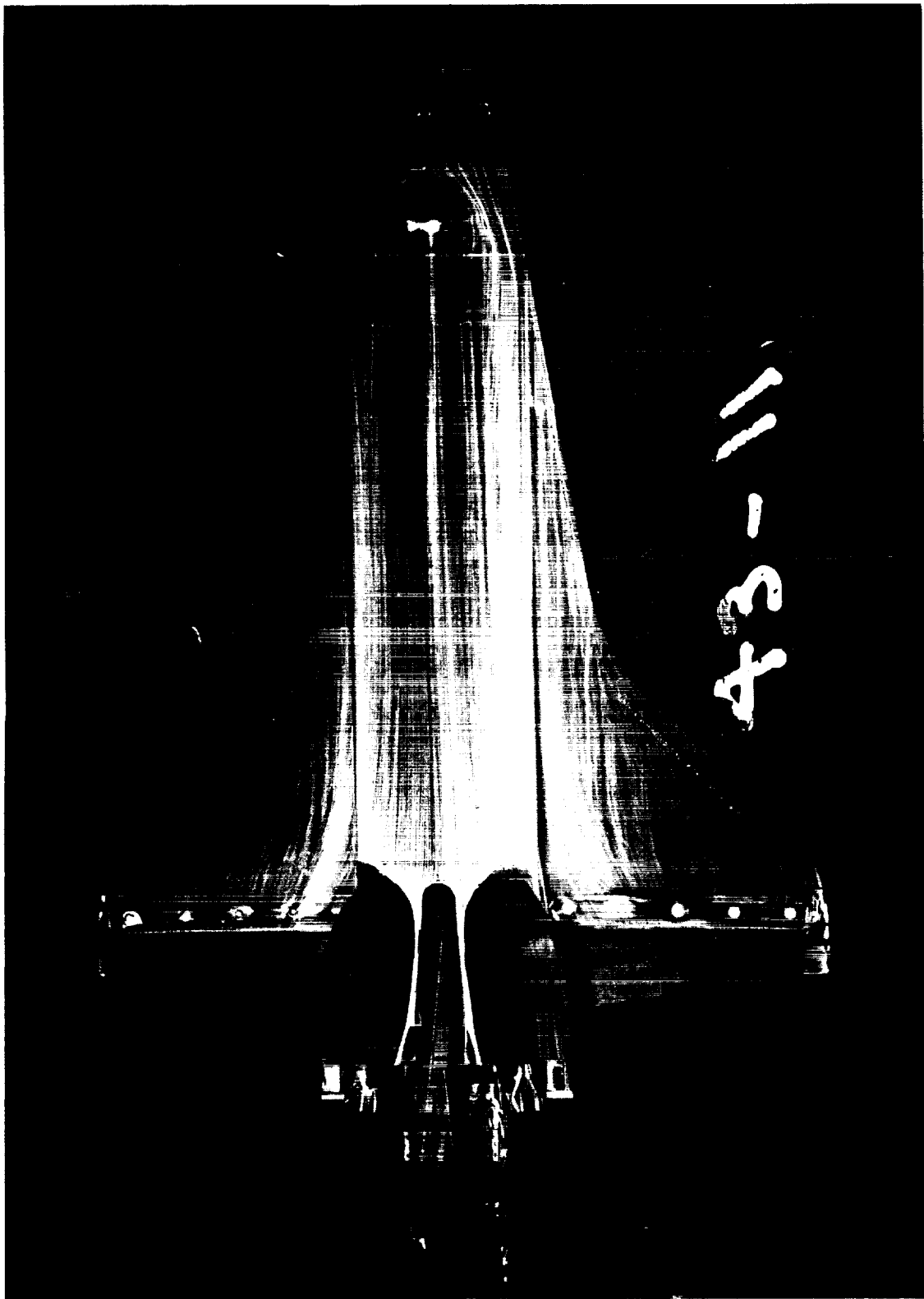
Figure 3. Concluded.



c. Front View of Model Installation
Figure 3. - Continued.

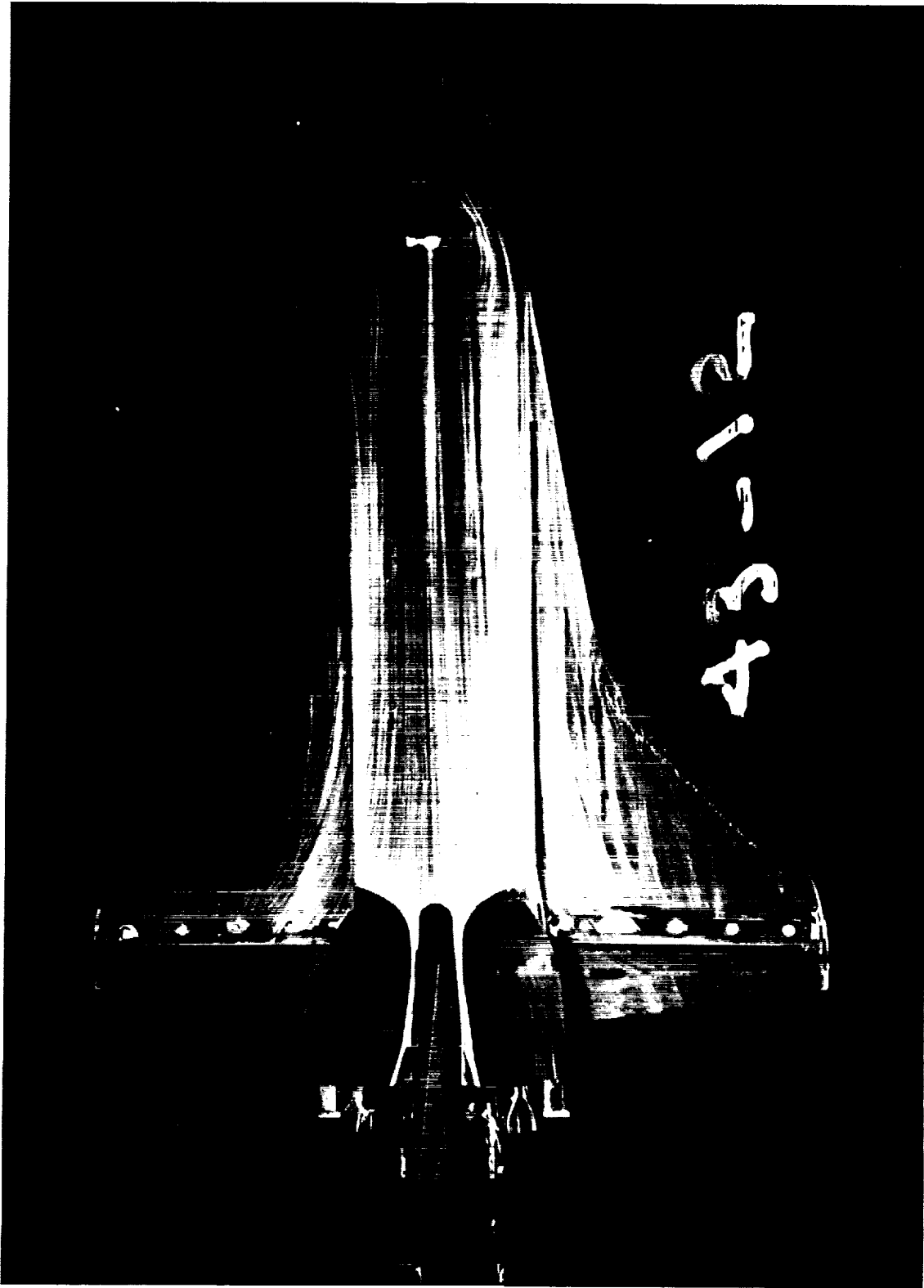


d. Rear View of Model Installation
Figure 3. - Continued



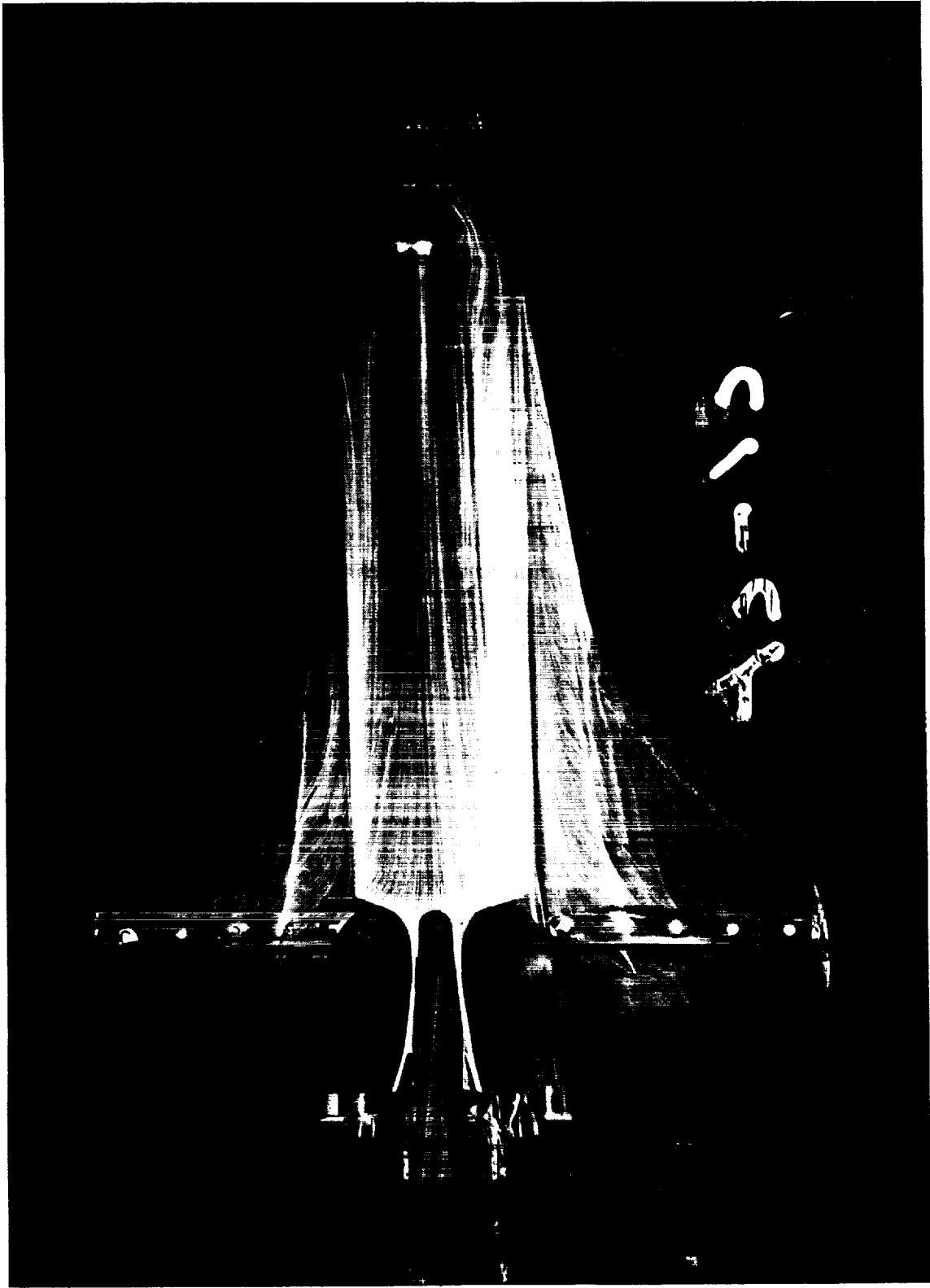
e. Oil Flow photograph, $M=0.6$, $\alpha = 6^\circ$

Figure 3. - Continued

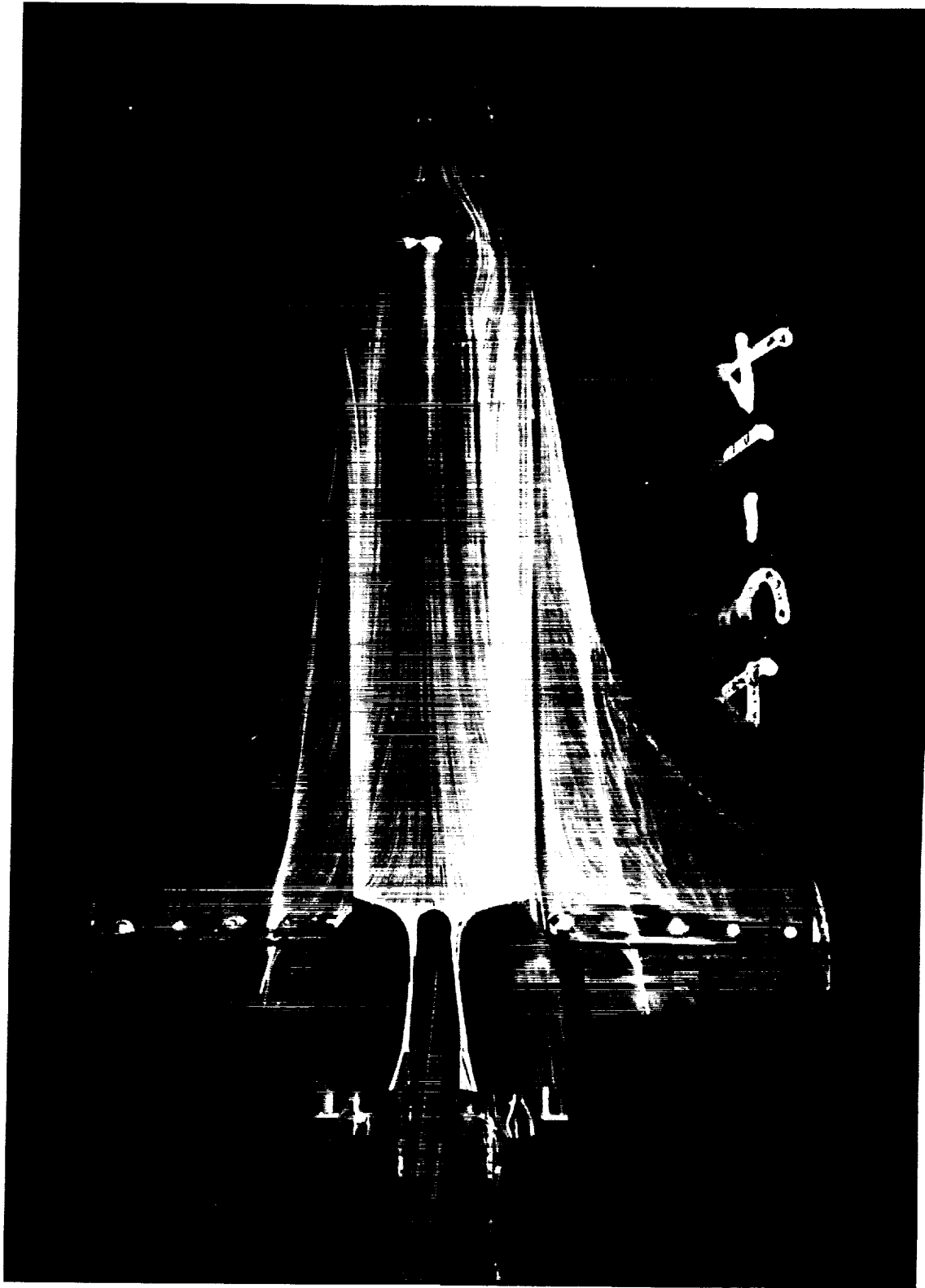


f. Oil Flow photograph, $M=0.6$, $\alpha = 8^\circ$.

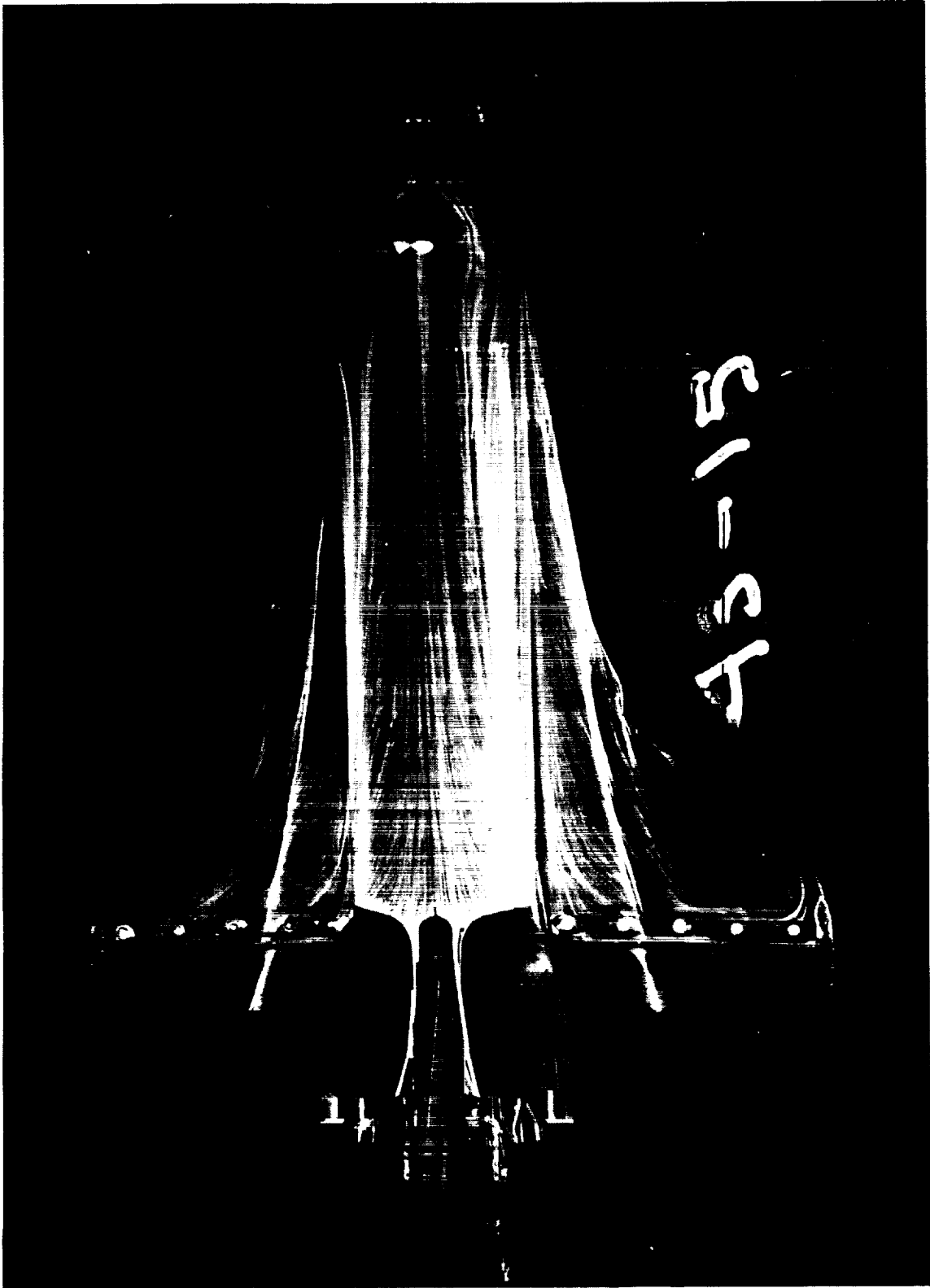
Figure 3. - Continued.



g. Oil Flow photograph, $M=0.6$, $\alpha = 10^\circ$
Figure 3. - Continued .



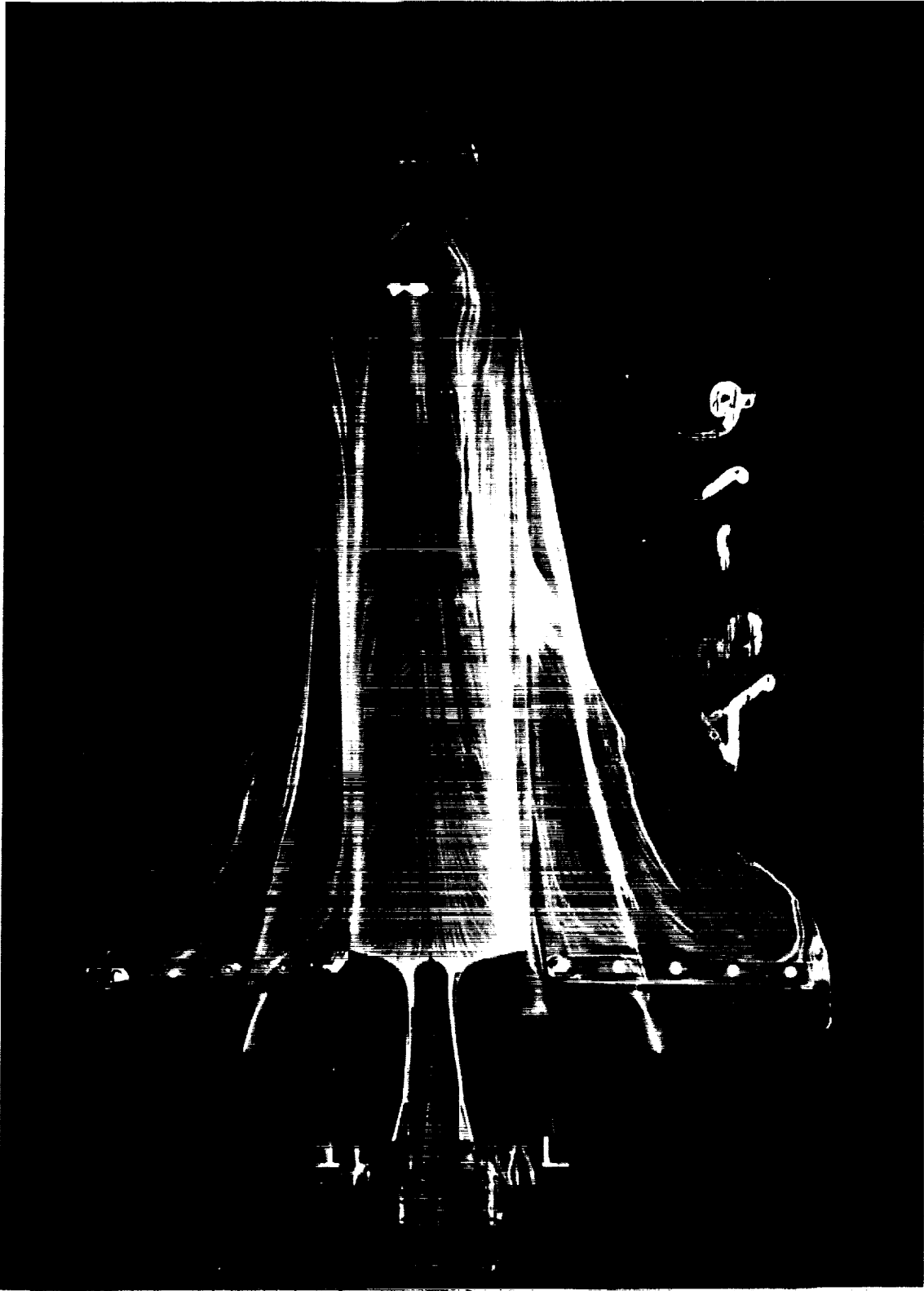
h. Oil Flow photograph, $M=0.6$, $\alpha = 11.4^\circ$.
Figure 3. - Continued.



43-15

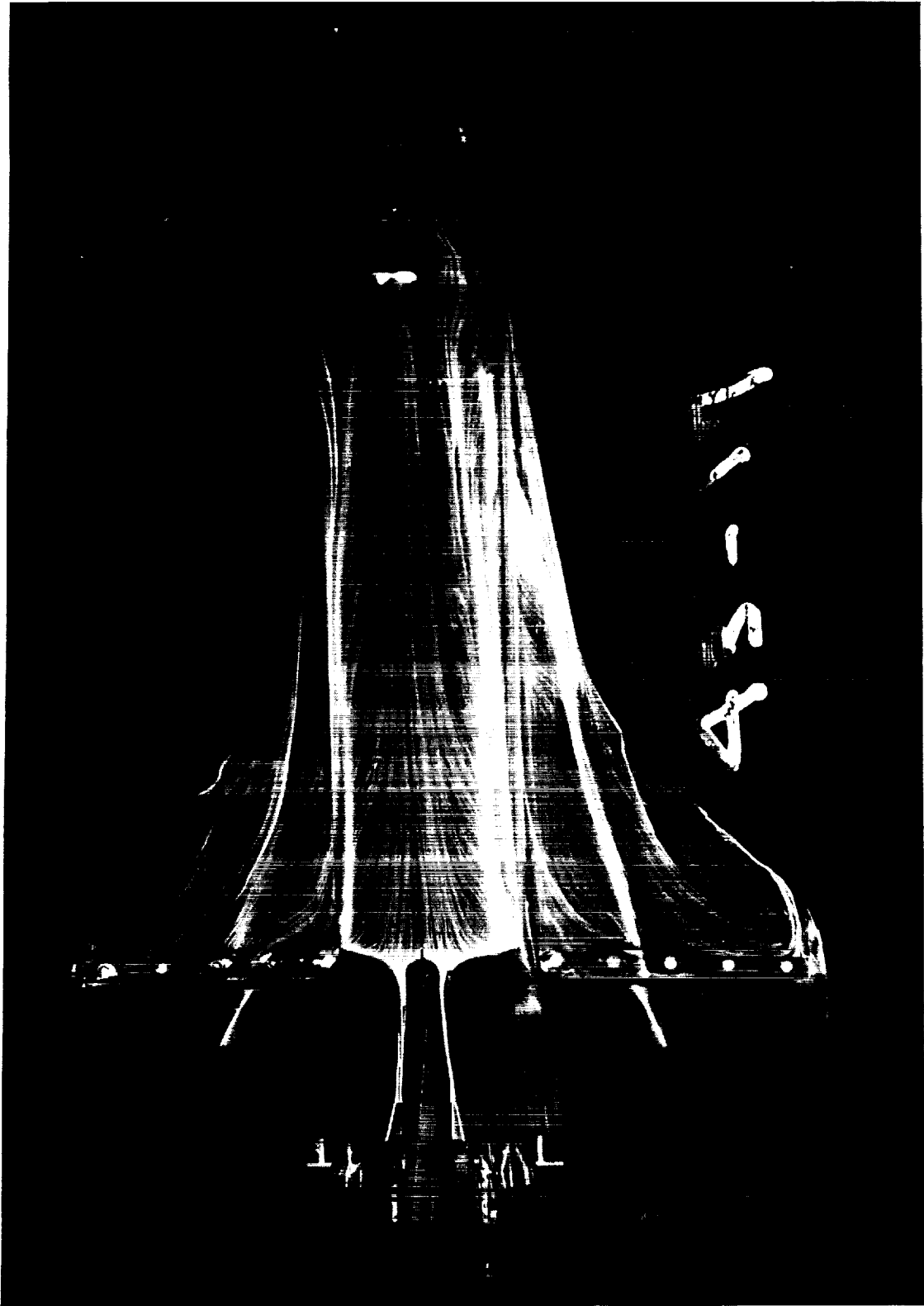
1. Oil Flow photograph, $M=0.6$, $\alpha = 13^\circ$.

Figure 3. - Continued.



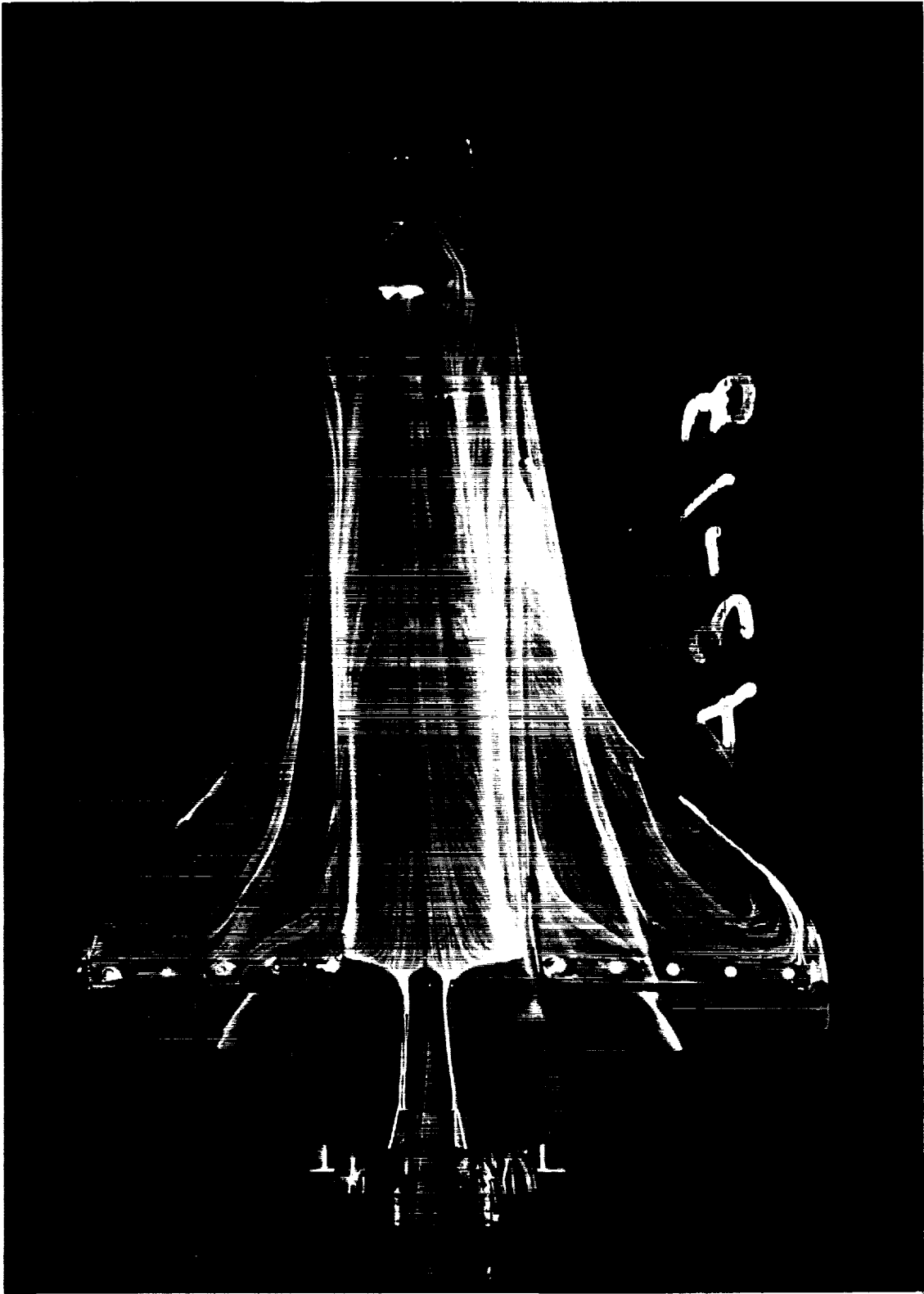
J. Oil Flow photograph, $M=0.6$, $\alpha=13.5^\circ$.

Figure 3. - Continued.



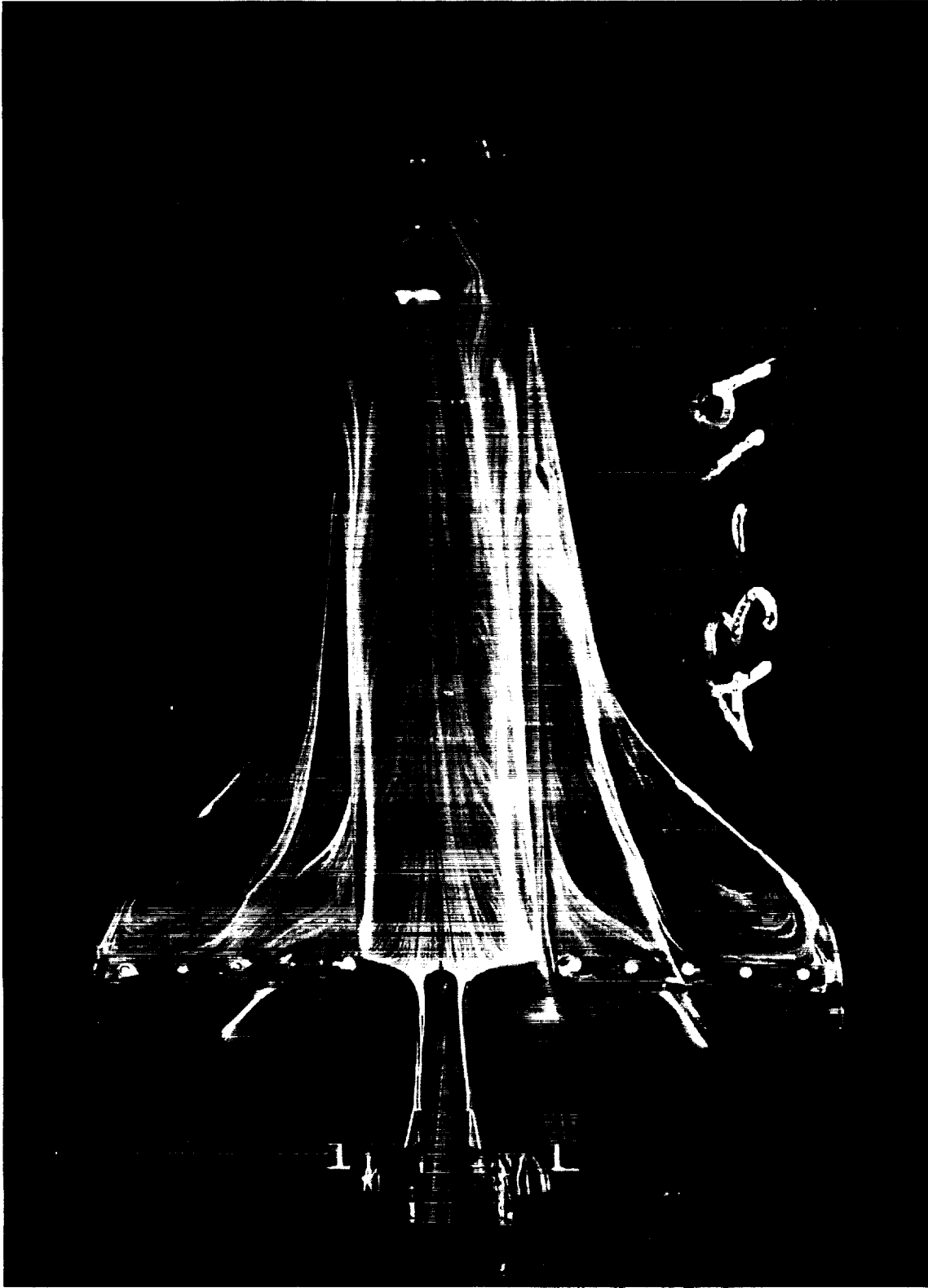
k. Oil Flow photograph, $M=0.6$, $\alpha=14.5^\circ$.

Figure 3. - Continued .

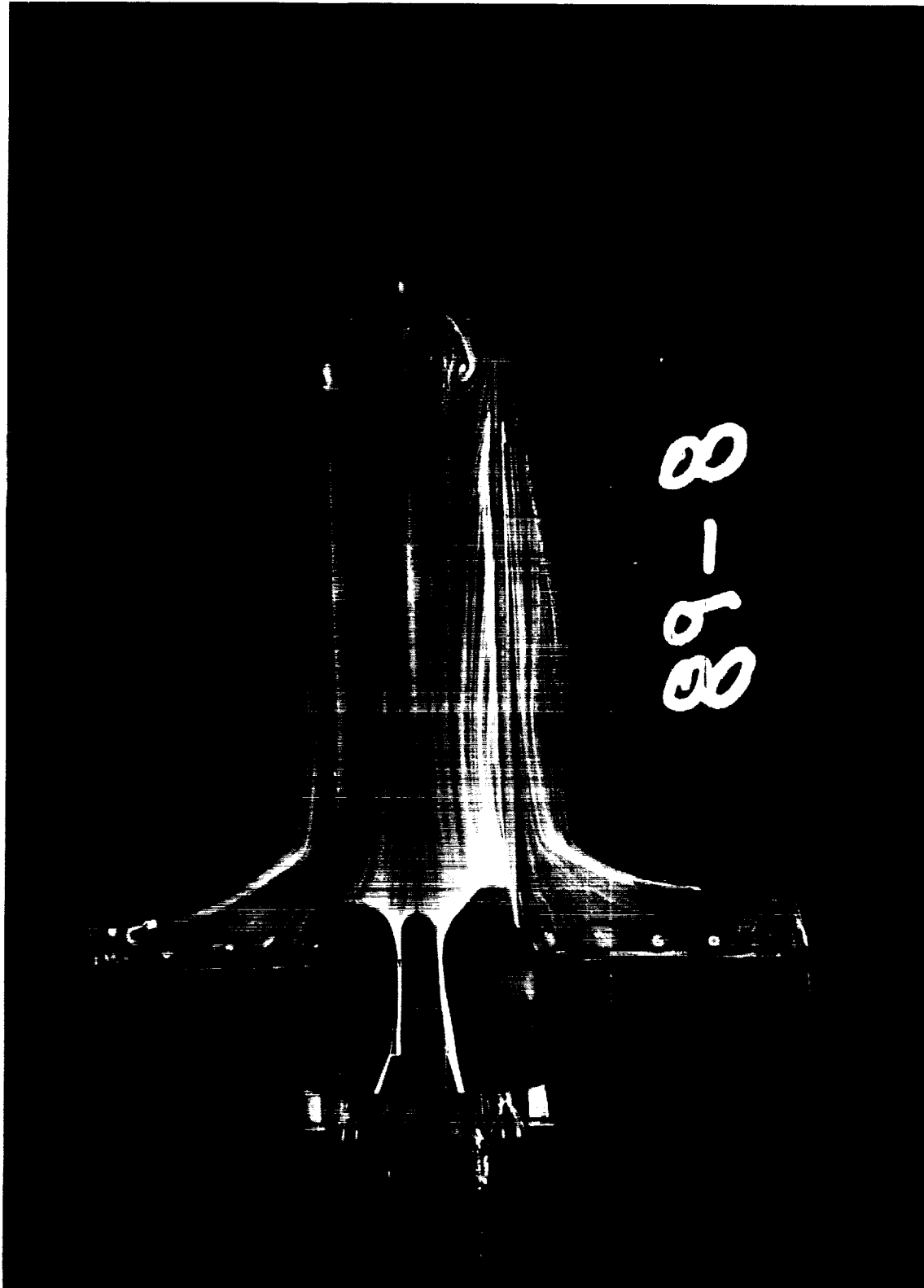


1. Oil Flow photograph, $M=0.6$, $\alpha = 15.6^\circ$.

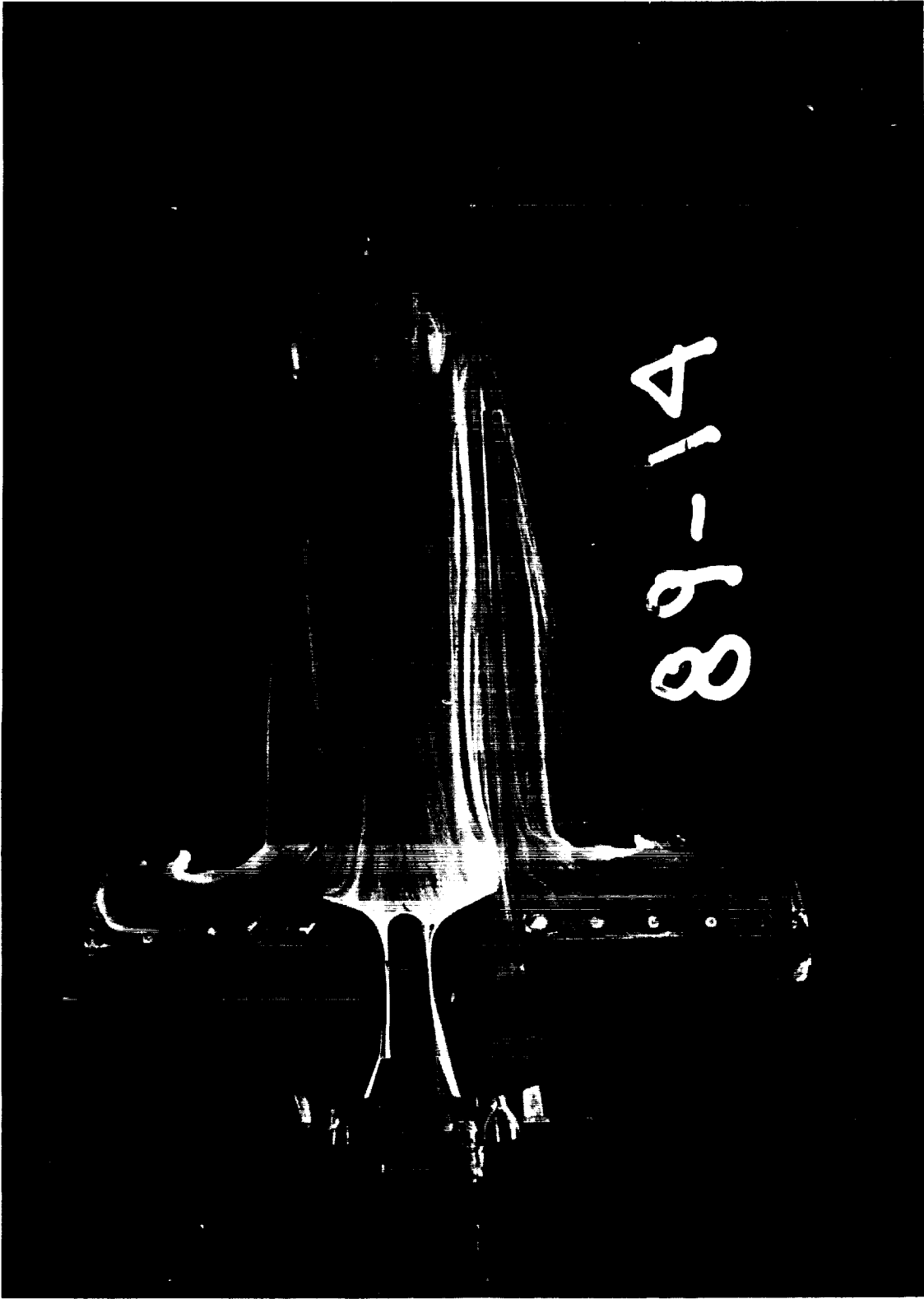
Figure 3. - Continued .



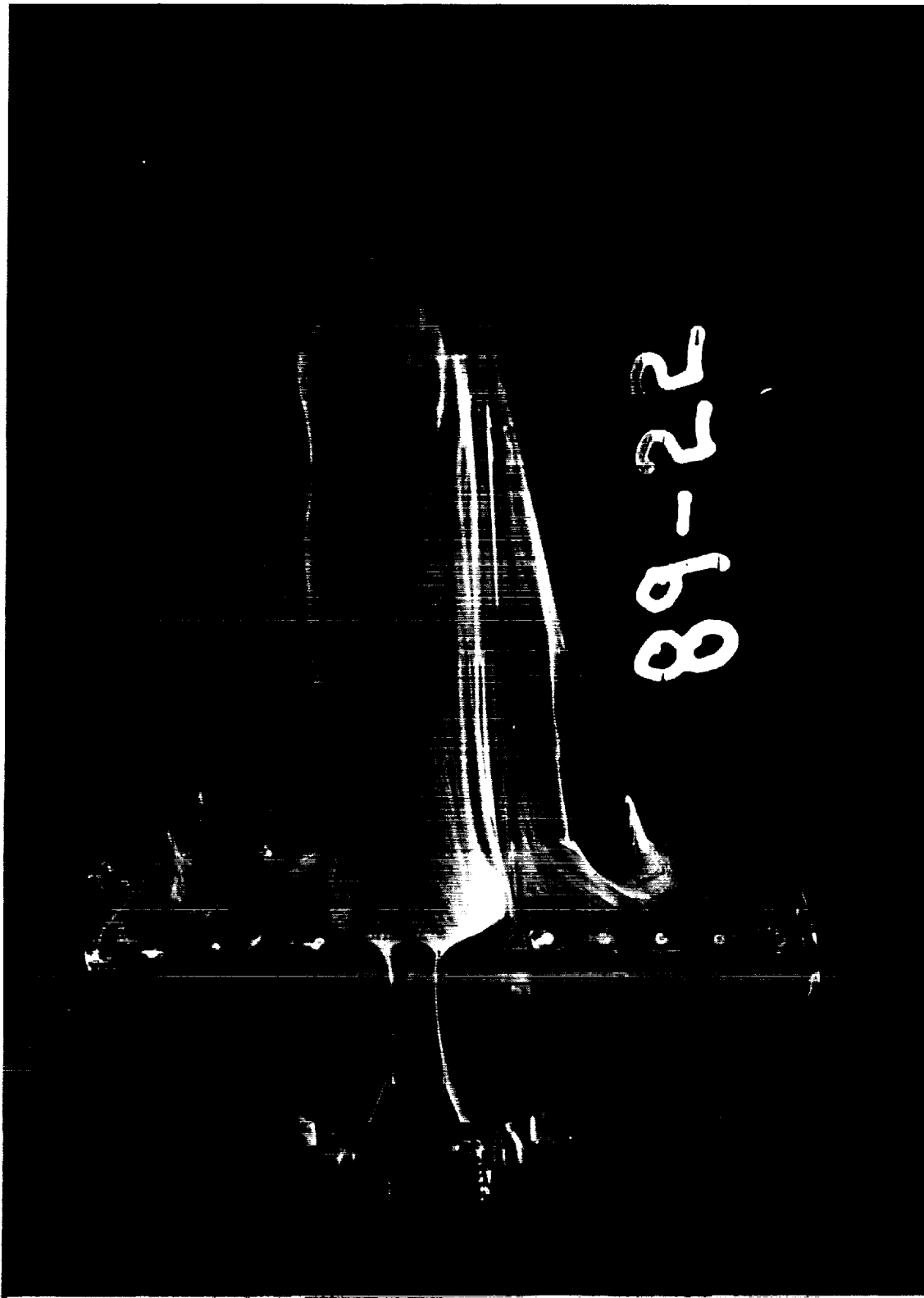
m. Oil Flow photograph, $M=0.6$, $\alpha = 16.6^\circ$.
Figure 3. - Continued.



n. Oil Flow photograph, $M=0.9$, $\alpha = 4.8^\circ$.
Figure 3. - Continued .



o. Oil Flow photograph, $M=0.9$, $\alpha = 4.8^\circ$.
Figure 3. - Continued .



P. Oil Flow photograph, $M=0.9$, $\alpha = 16^\circ$.
Figure 3. - Concluded.

DATA FIGURES



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK003) □ LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

(RUK001) ○ LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

(RUK002) ◇ LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

BETA -2.000
 .000
 2.000

RN/L 3.500
 3.500
 3.500

ELEVON .000
 .000
 .000

AIRLON .000
 .000
 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

YMRP 1076.7000 IN. X0

ZMRP .0000 IN. Y0

SCALE 375.0000 IN. Z0

.0150

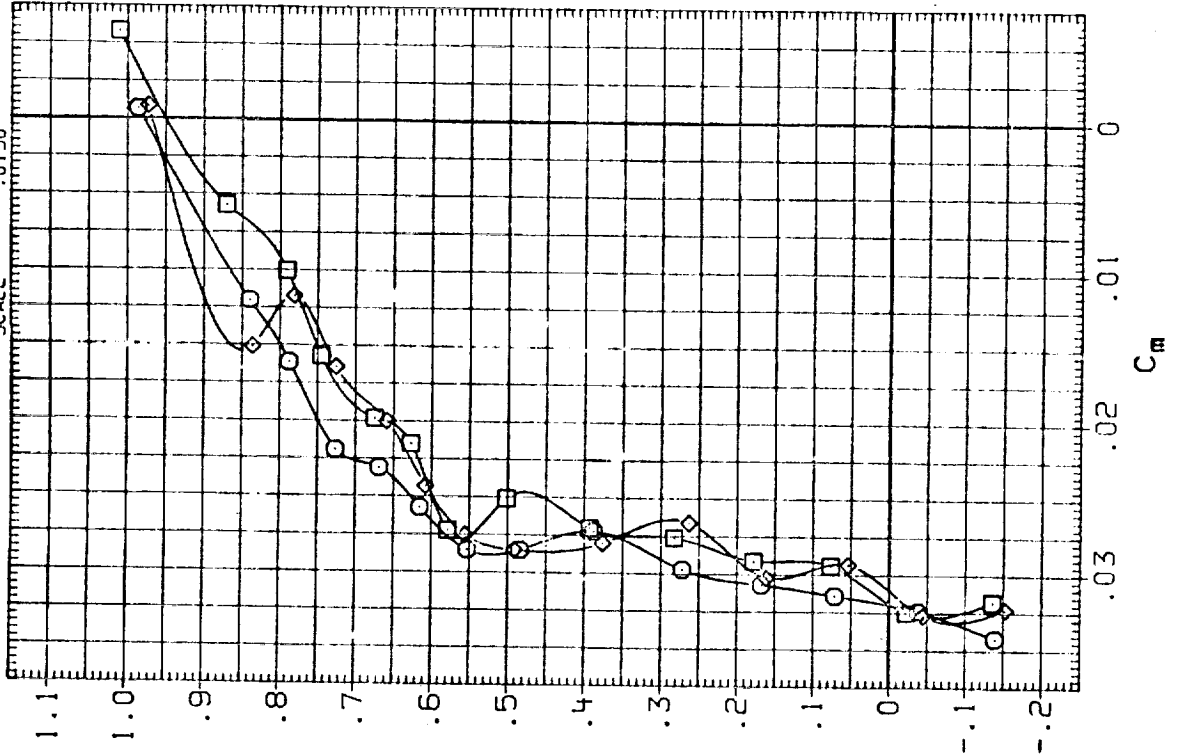
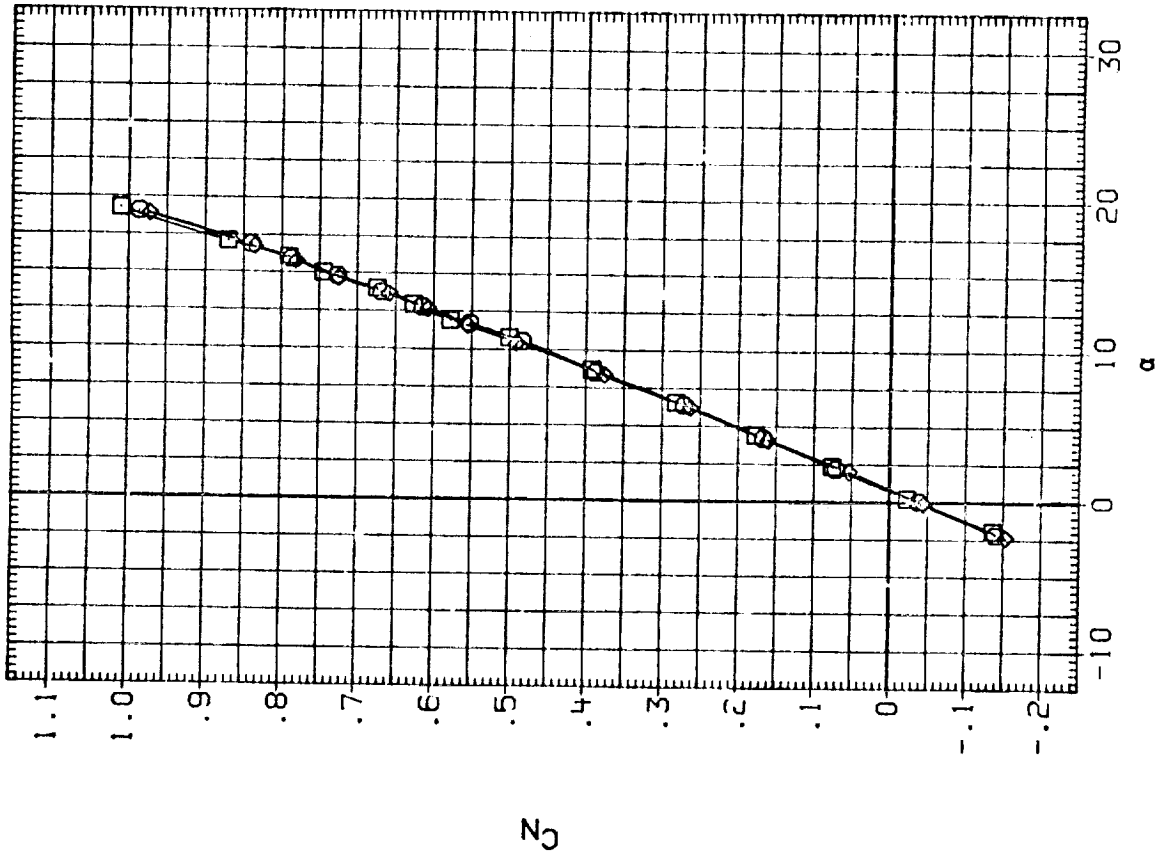
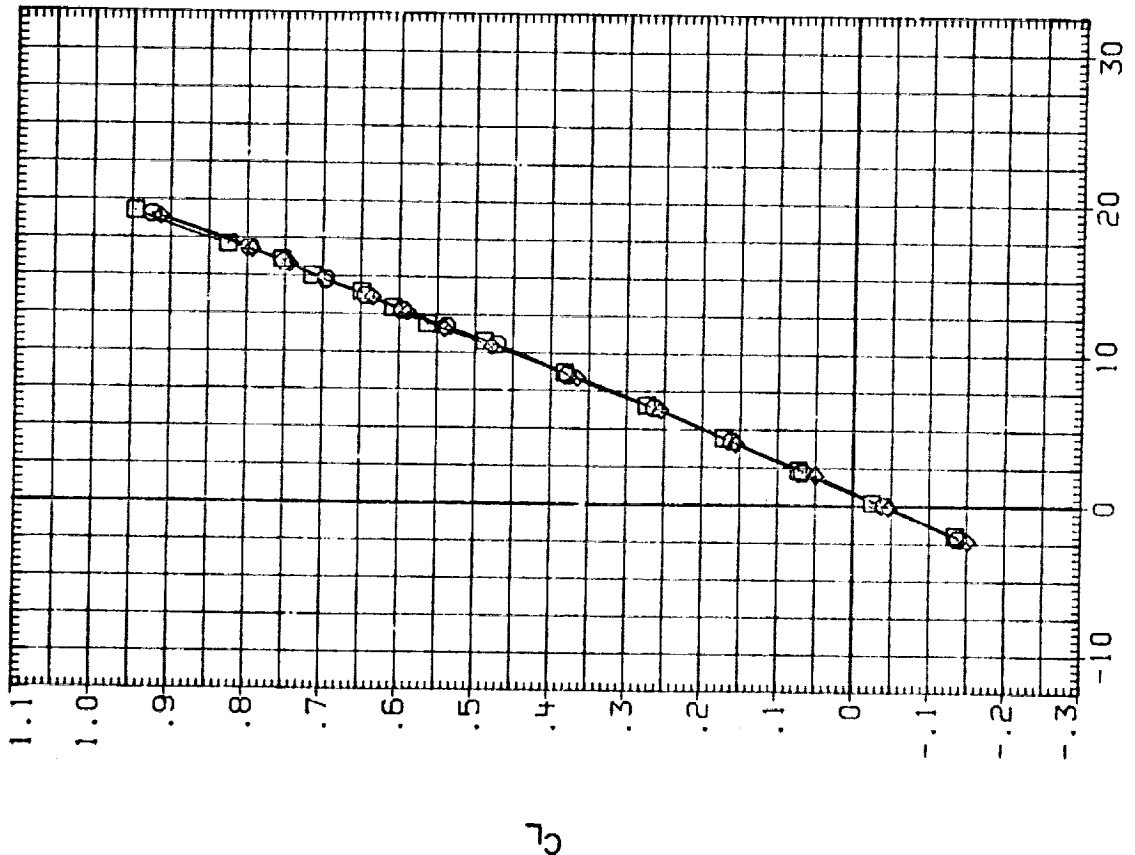


FIG. 04 EFFECT OF SIDESLIP, RN/L = 3.5

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK003) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (RUK001) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (RUK002) ◇ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)



BETA -2.000
 RN/L 3.500
 ELEVON .000
 AIRLON .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

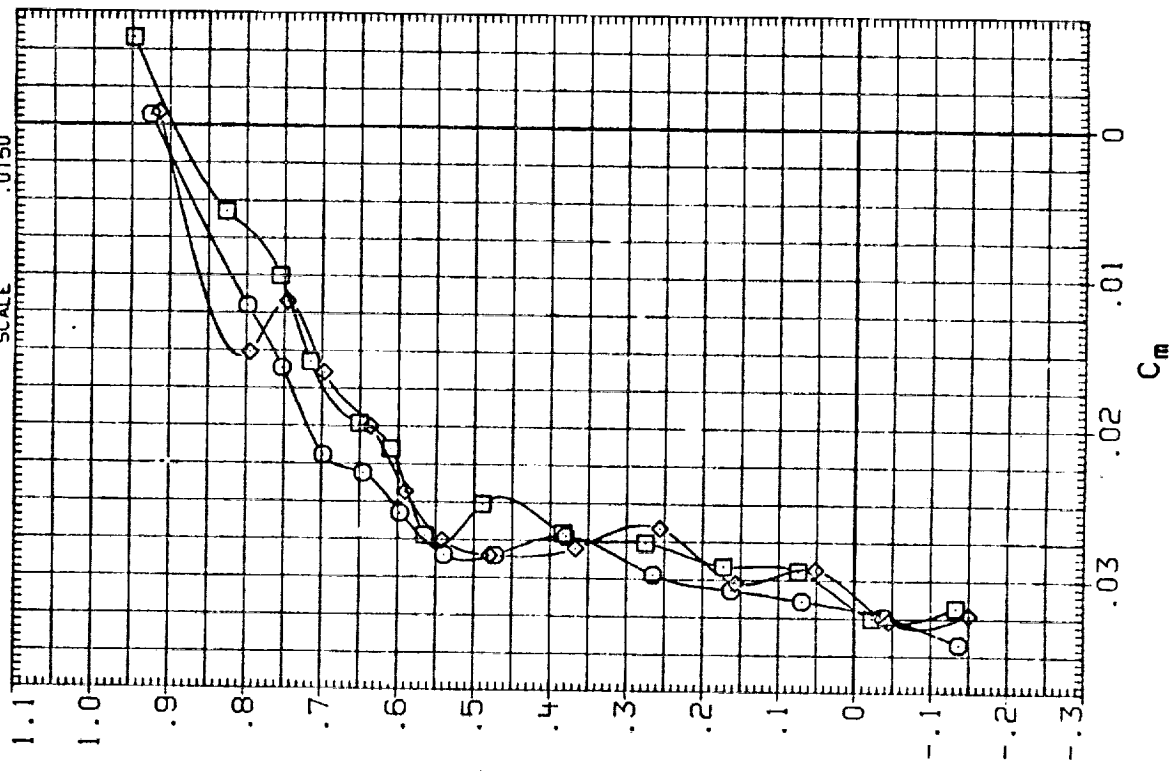


FIG. 04 EFFECT OF SIDESLIP, RN/L = 3.5

(A) MACH = .60

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
| (RUK003) | LA70 BASELINE OF LA62 (GAPS OPEN, CRIT ON) | -2.000 | 3.500 | .000 | .000 | SREF 2690.0000 50.FT. |
| (RUK001) | LA70 BASELINE OF LA62 (GAPS OPEN, CRIT ON) | .000 | 3.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK002) | LA70 BASELINE OF LA62 (GAPS OPEN, CRIT ON) | 2.000 | 3.500 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | YMRP 1076.7000 IN. XO |
| | | | | | | ZMRP .0000 IN. YO |
| | | | | | | SCALE 375.0000 IN. ZO |
| | | | | | | |

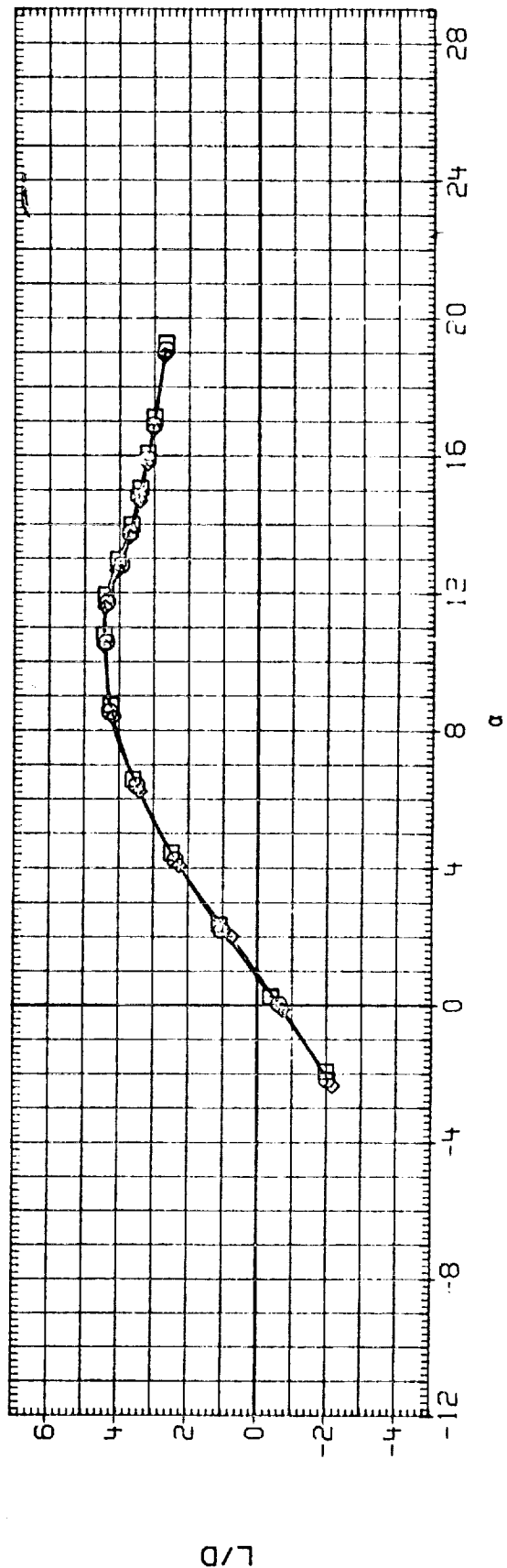
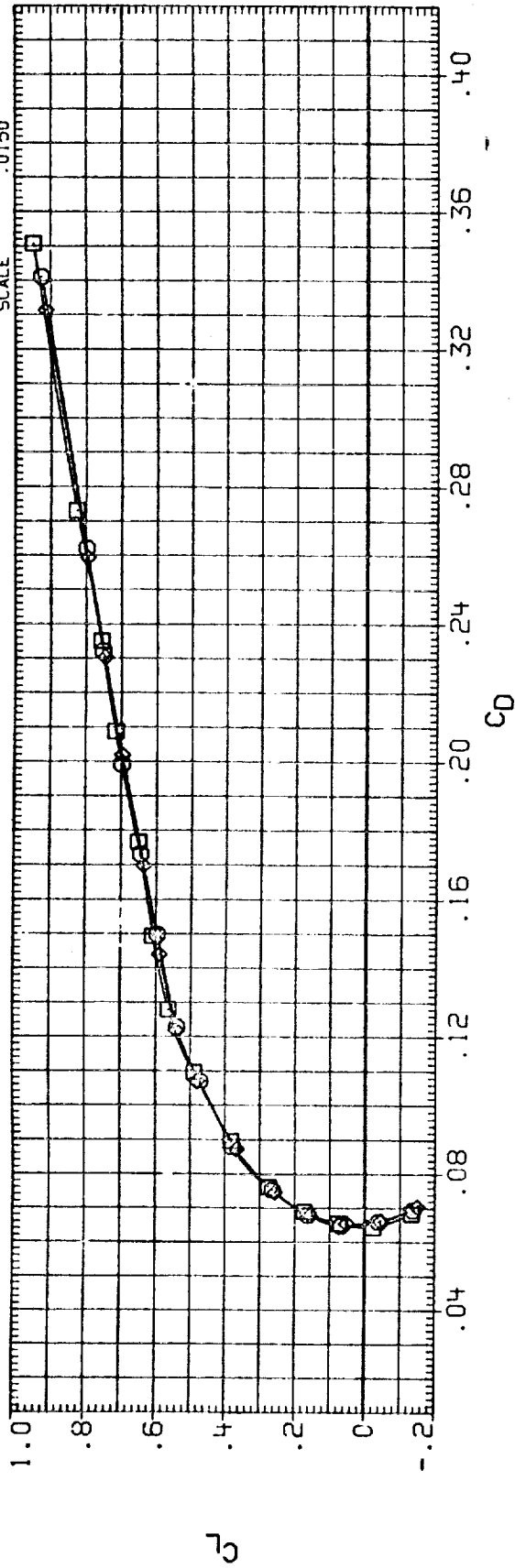


FIG. 04 EFFECT OF SIDESLIP, RN/L = 3.5

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (RUK003) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | -2.000 | 3.500 | .000 | .000 | SREF 2690.0000 50.FT. |
| (RUK001) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 3.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK002) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 2.000 | 3.500 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

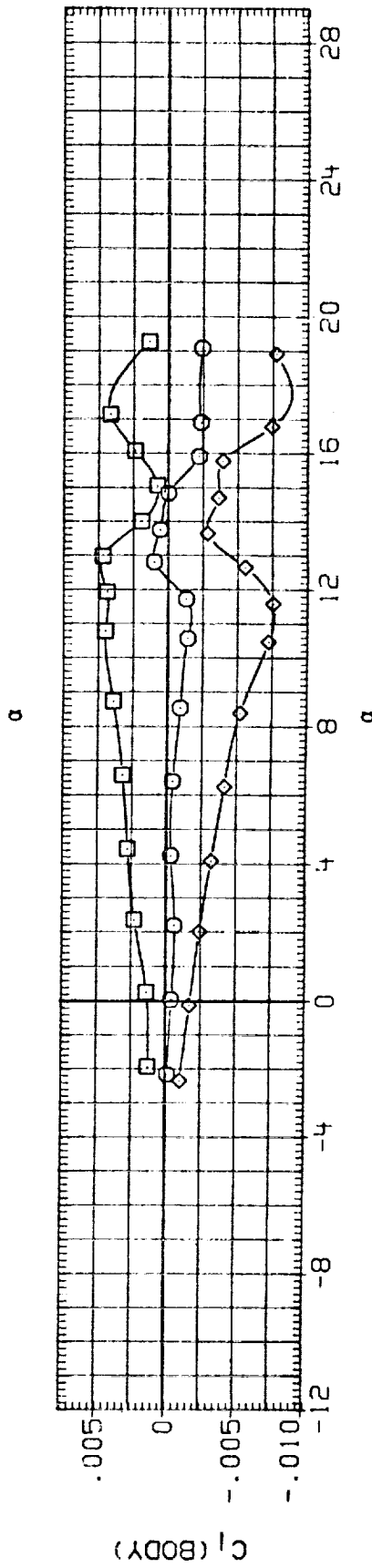
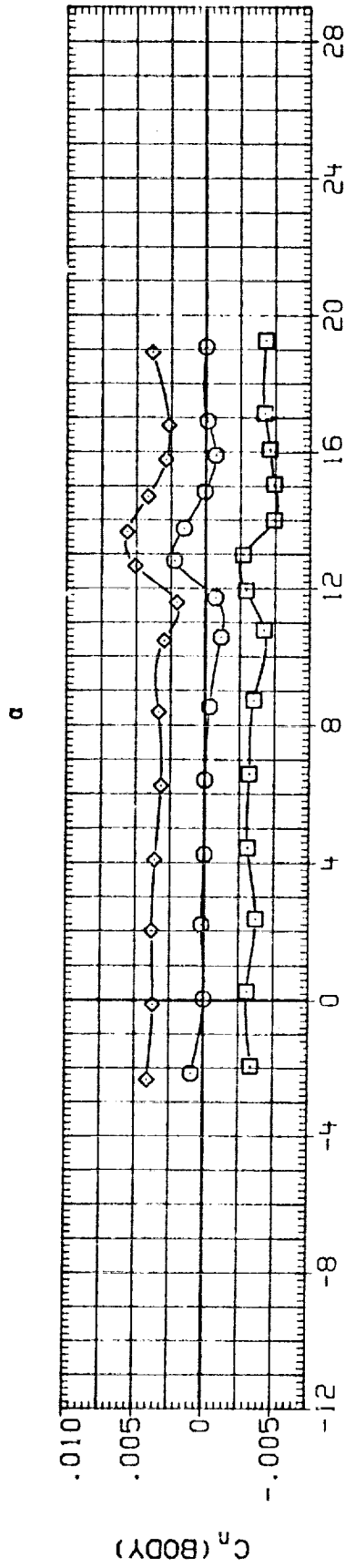
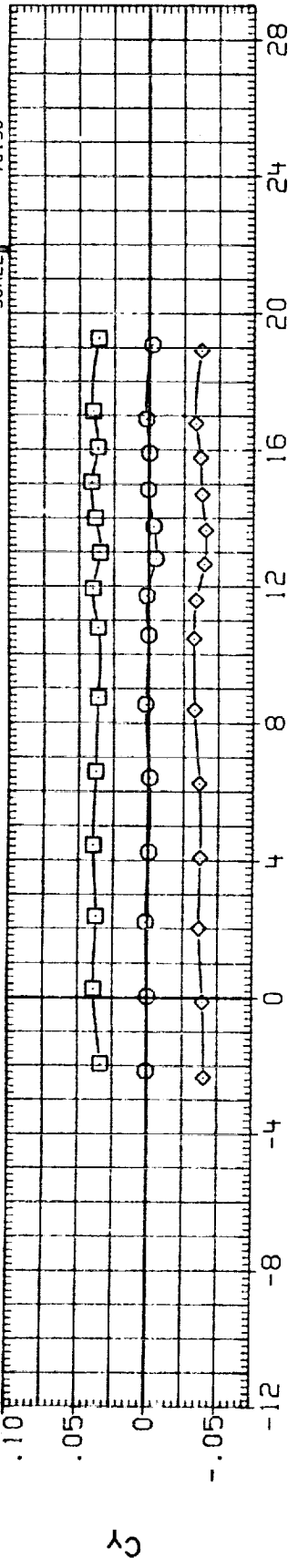


FIG. 04 EFFECT OF SIDESLIP, RN/L = 3.5

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK003) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(CUK001) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(CUK002) ◇ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

BETA RN/L ELEVON AIRLON

-2.000 3.500 .000 .000

.000 3.500 .000 .000

2.000 3.500 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

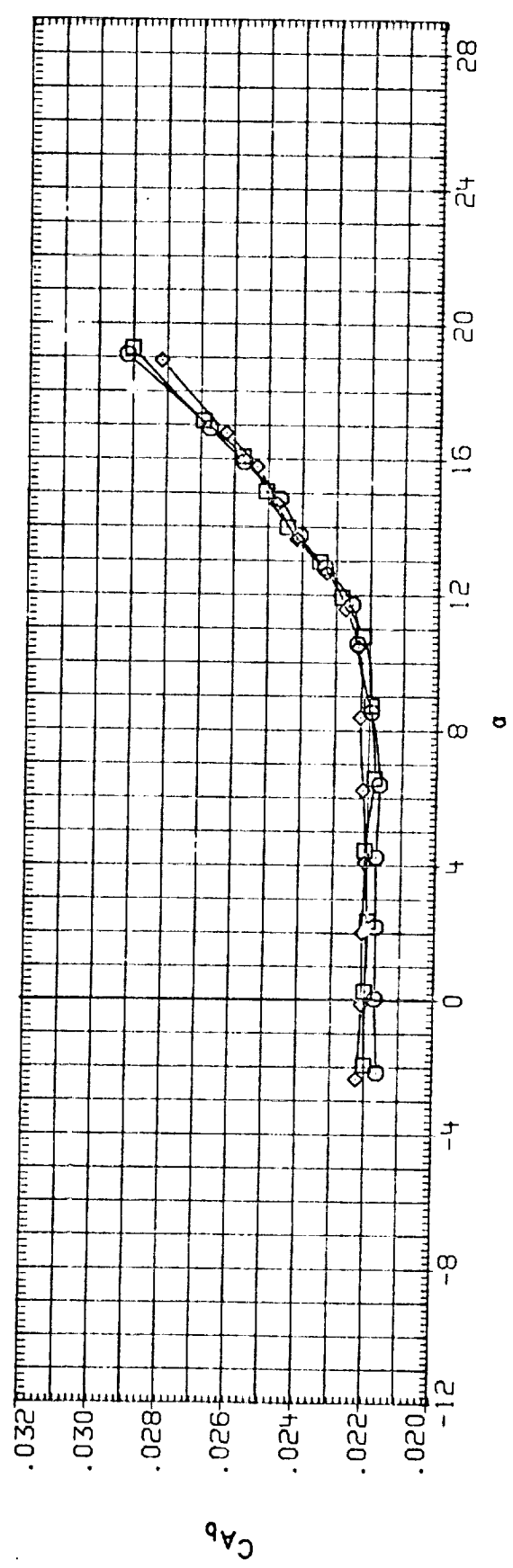
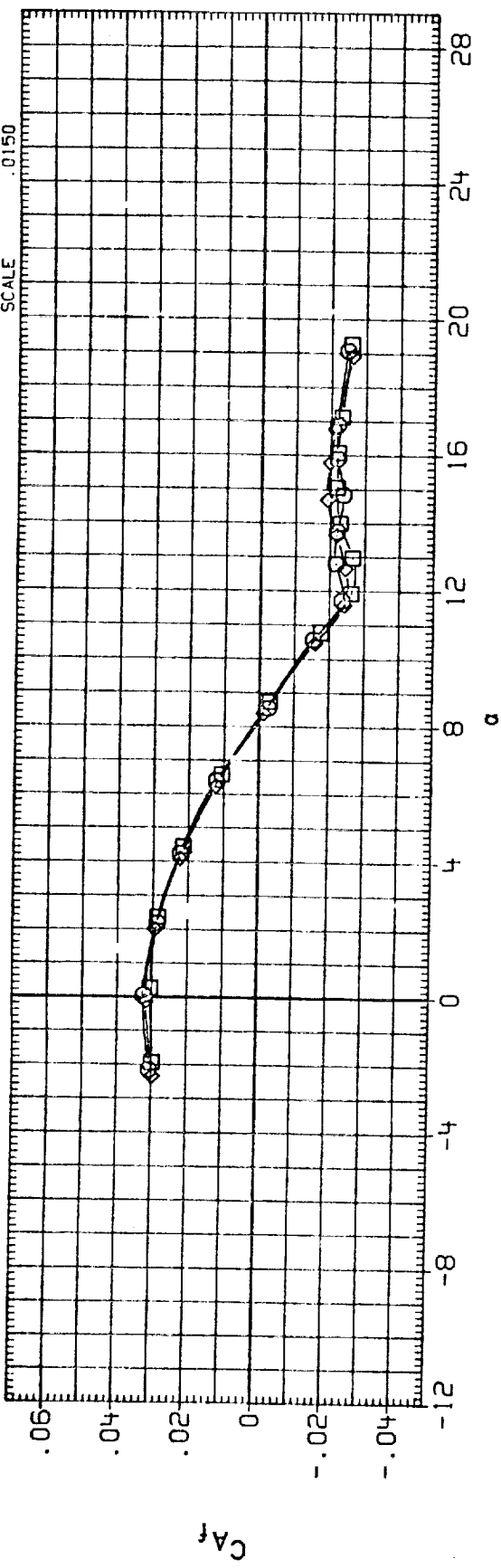


FIG. 04 EFFECT OF SIDESLIP, RN/L = 3.5

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK003) □ LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

(CUK001) ○ LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

(CUK002) ◇ LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

BETA -2.000
 RN/L 3.500
 ELEVON .000
 AIR/ON .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

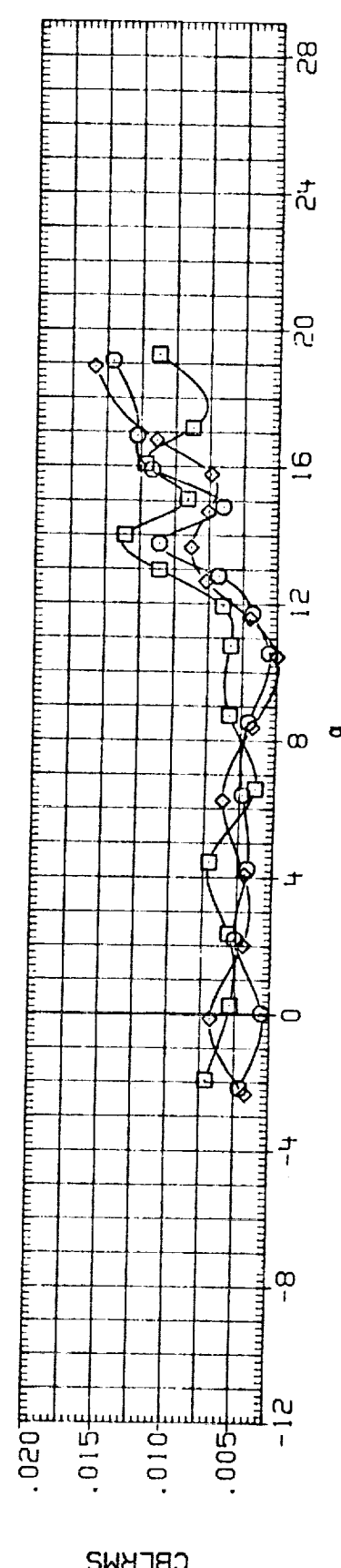
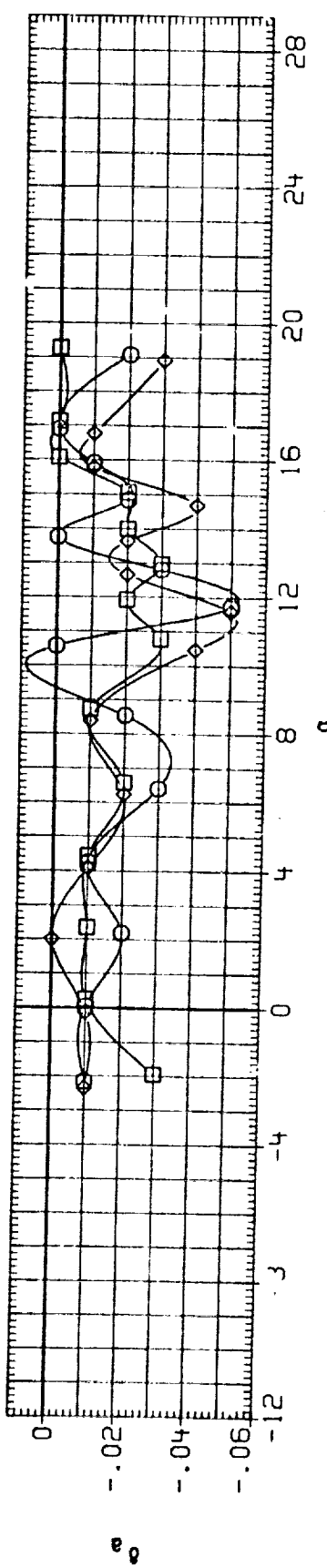
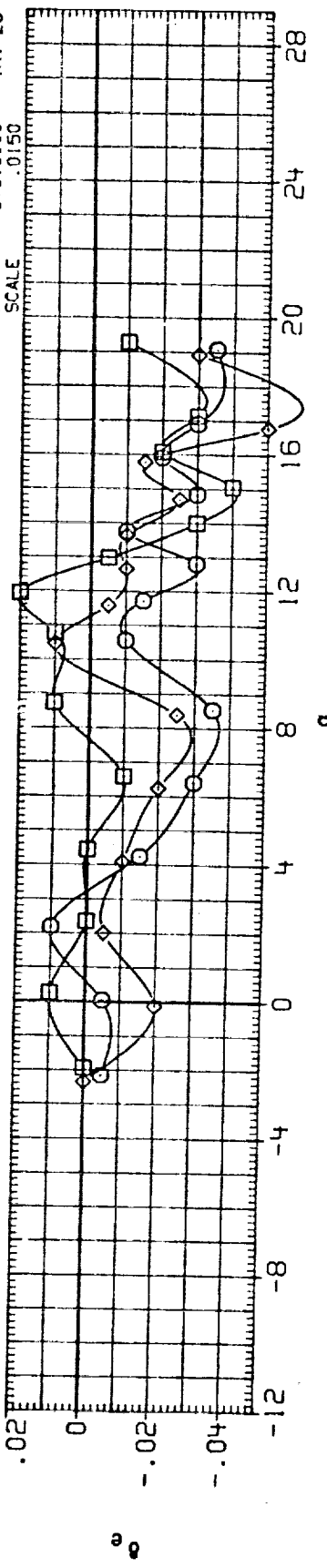


FIG. 04 EFFECT OF SIDESLIP, RN/L = 3.5

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK005) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK004) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK006) ◇ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

BETA -2.000
 RN/L 4.500
 ELEVON .000
 AIRLON .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

SCALE .0150

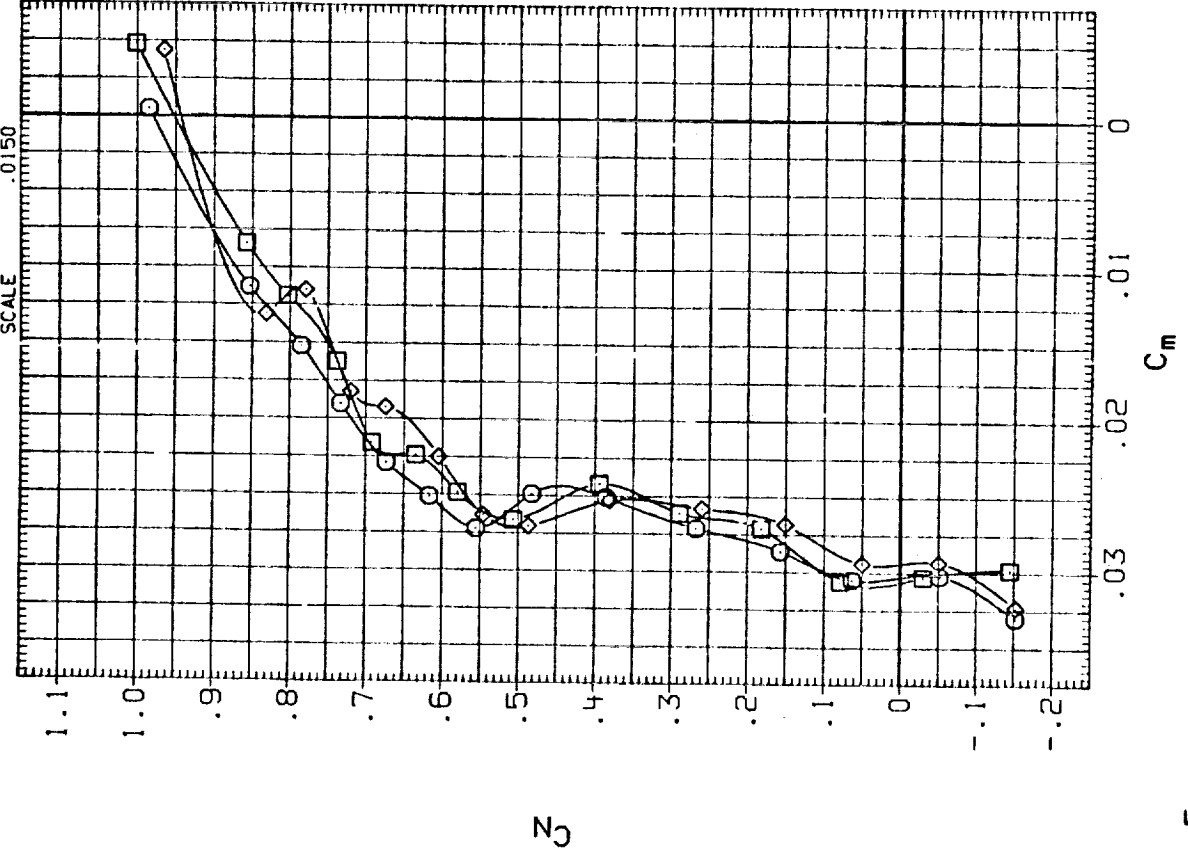
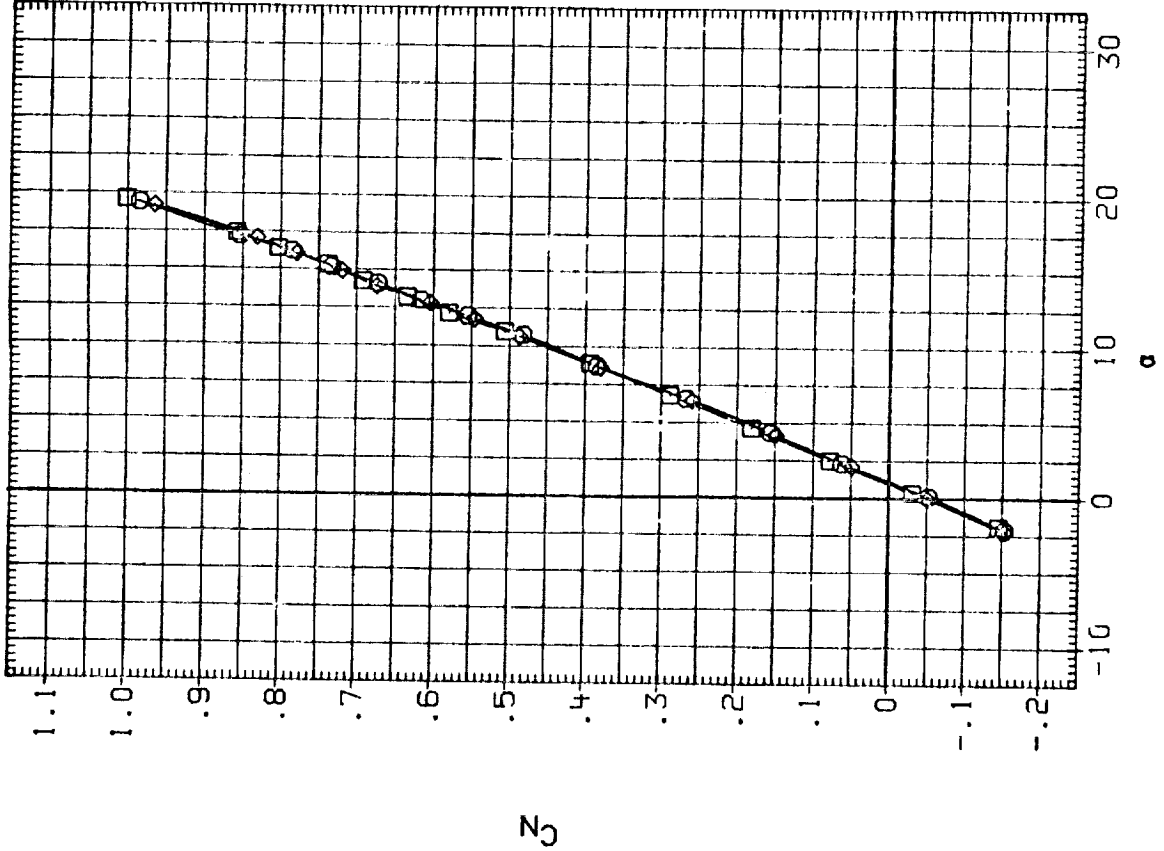


FIG. 05 EFFECT OF SIDESLIP, RN/L = 4.5

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK005) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK004) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK006) ◇ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

BETA -2.000

RN/L 4.500

ELEVON .000

AIRLON .000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.6800 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE 0.150

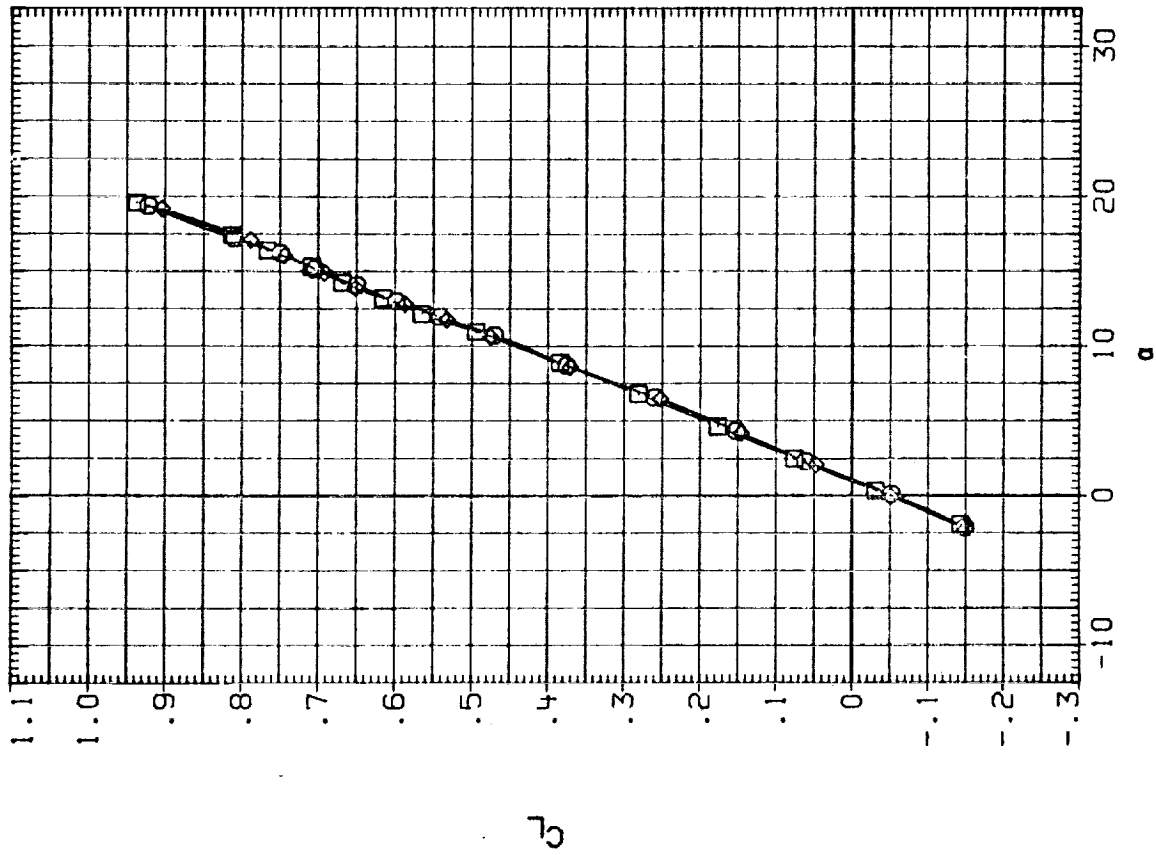


FIG. 05 EFFECT OF SIDESLIP, RN/L = 4.5

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| (RUK005) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | -2.000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK004) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK006) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 2.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

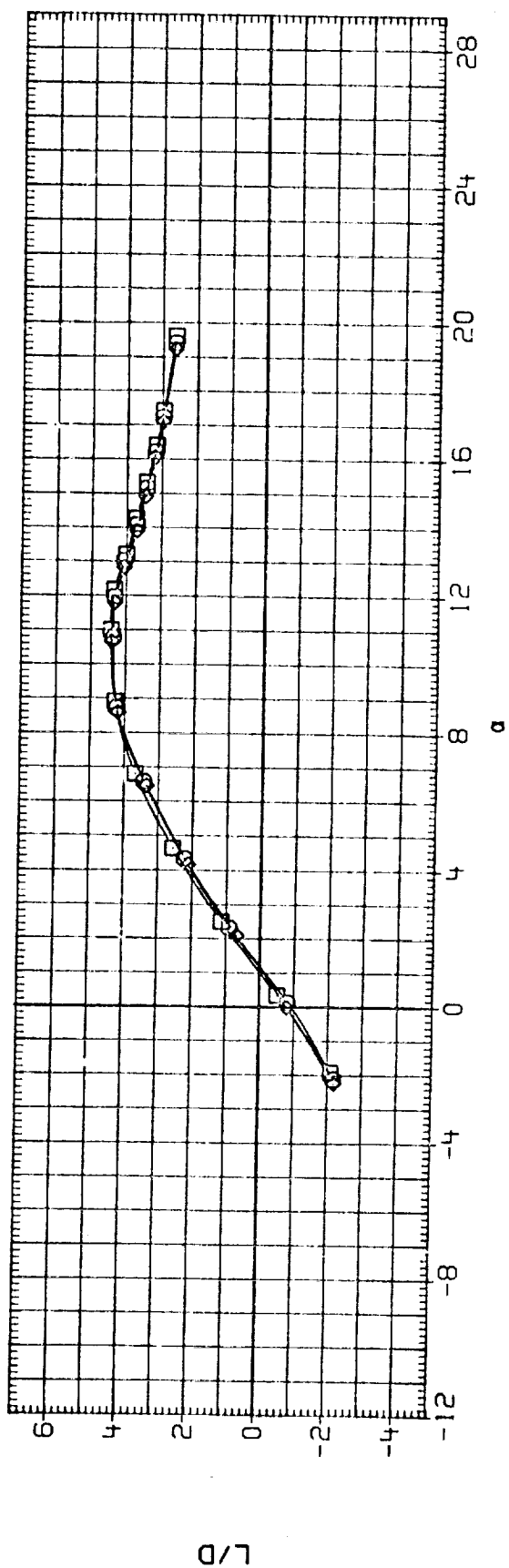
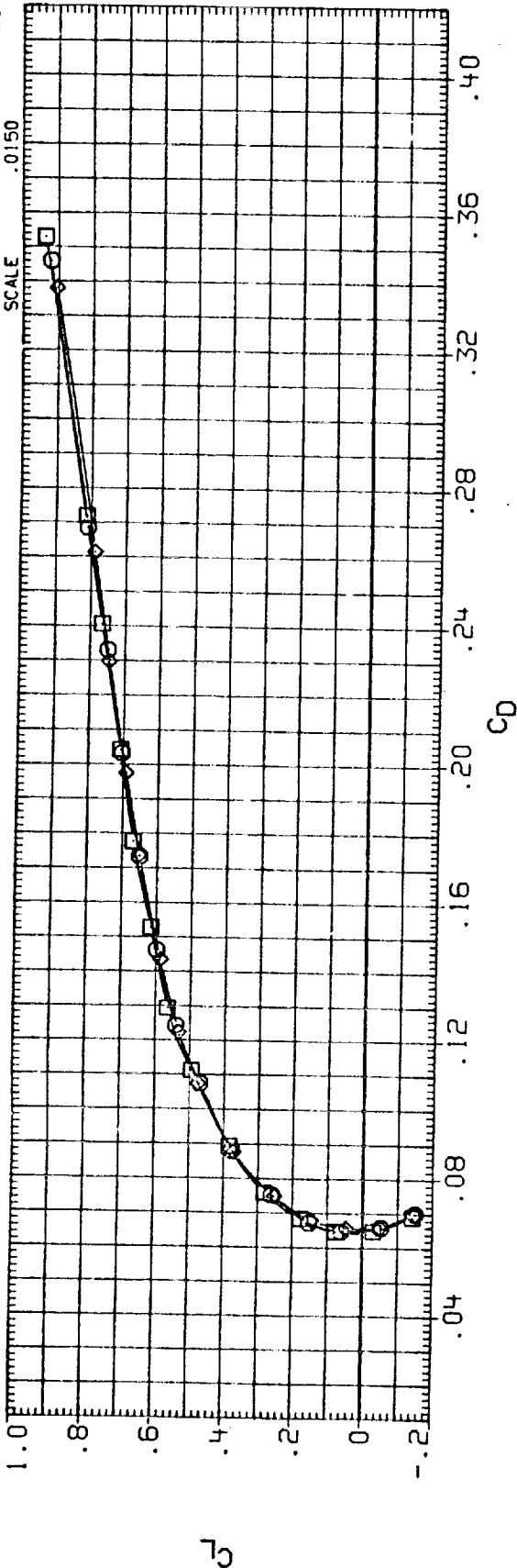


FIG. 05 EFFECT OF SIDESLIP, RN/L = 4.5

(A) MACH = .60

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (RUK005) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | -2.000 | 4.500 | .000 | .000 | SREF 2690.0000 50.FT. |
| (RUK004) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK006) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 2.000 | 4.500 | .000 | .000 | FREF 936.6800 INCHES |
| | | | | | | XMR: 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

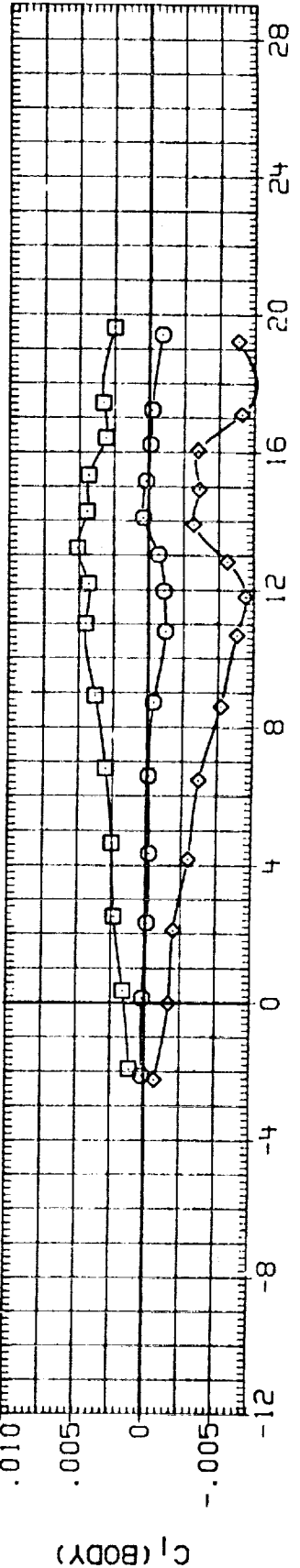
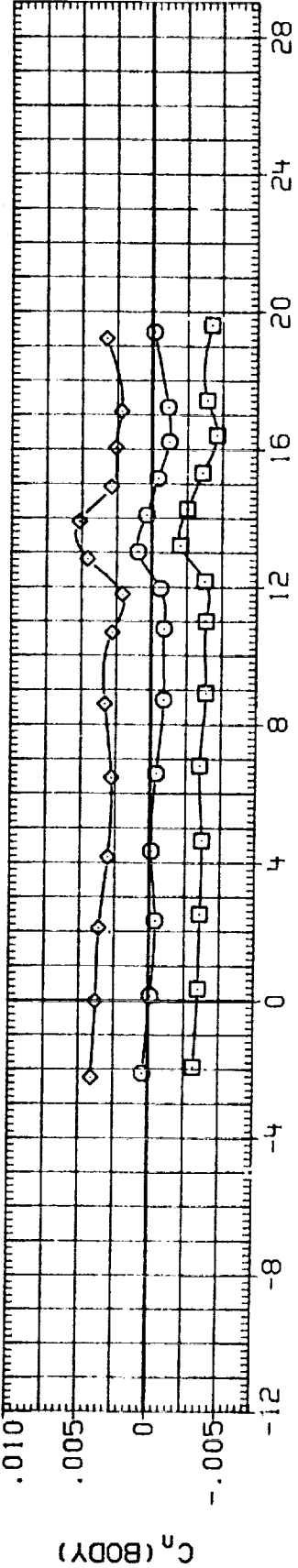
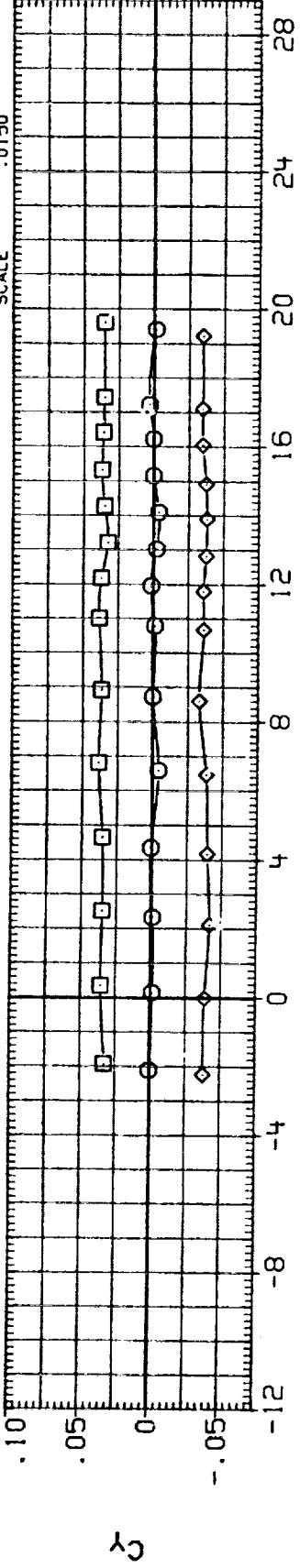


FIG. 05 EFFECT OF SIDESLIP, RN/L = 4.5

(A) MACH = .60

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
| (CUK005) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | -2.000 | 4.500 | .000 | .000 | SREF 2690.0000 50.FT. |
| (CUK004) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK006) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 2.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | YMPP 1076.7000 IN. XO |
| | | | | | | ZMRP .0000 IN. YO |
| | | | | | | SCALE .0150 |

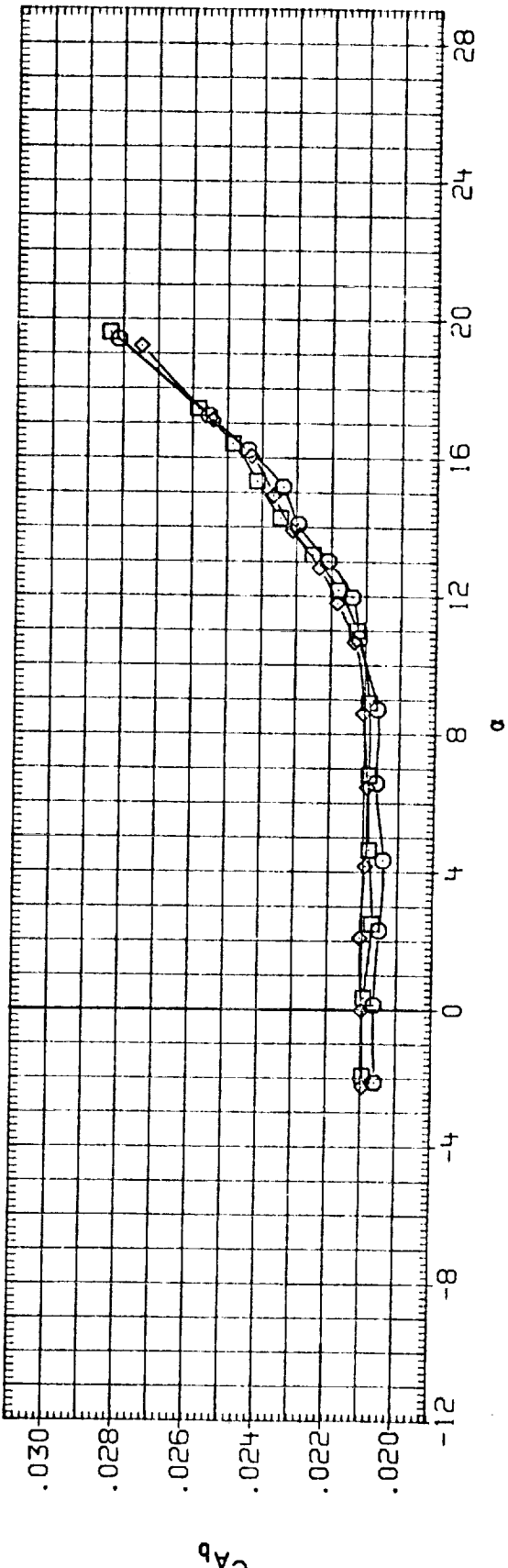
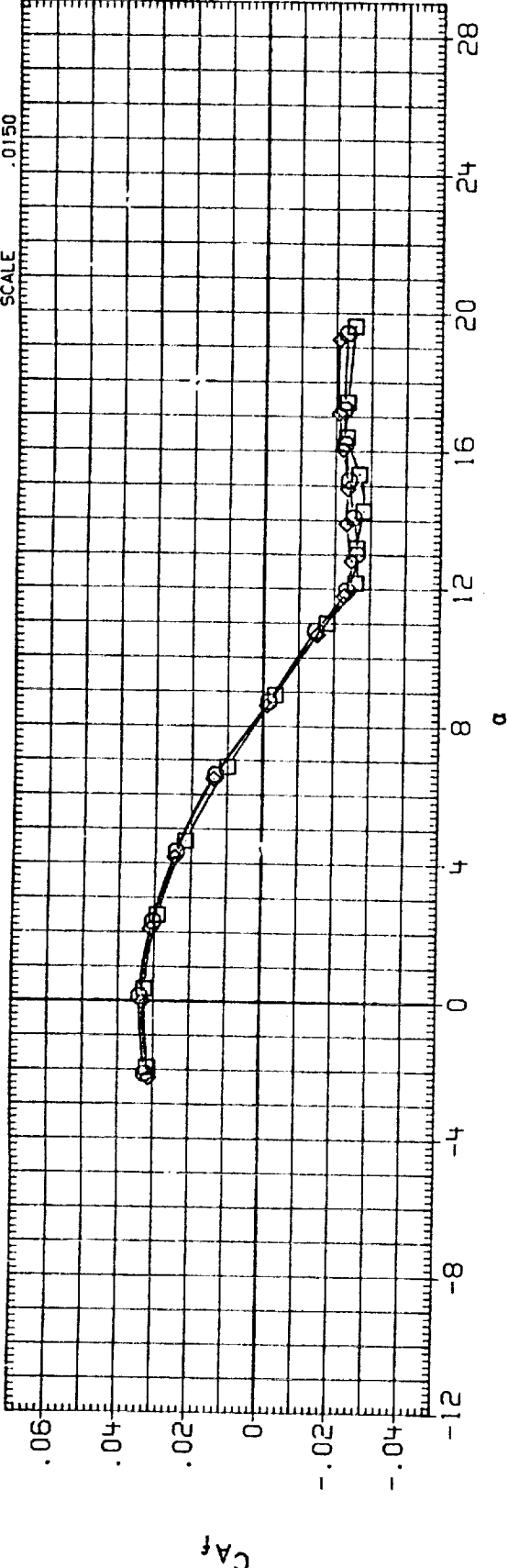


FIG. 05 EFFECT OF SIDESLIP, RN/L = 4.5

(A) MACH = .50

DATA SET SYMBOL

CONFIGURATION DESCRIPTION

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

BETA
-2.000
.000
2.000

RN/L
4.500
4.500
4.500

ELEVON
.000
.000
.000

AIRLON
.000
.000
.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8000 INCHES
BREF 936.8600 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

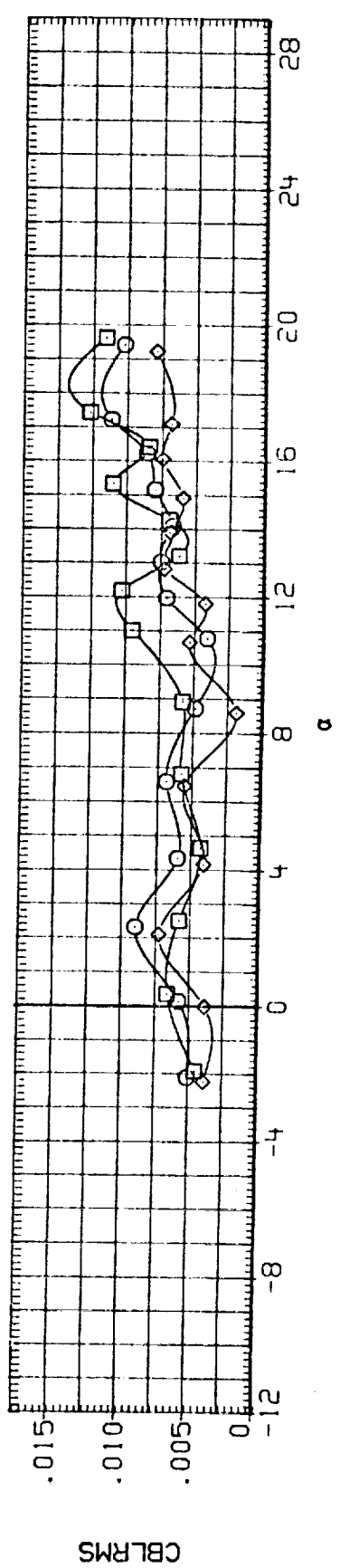
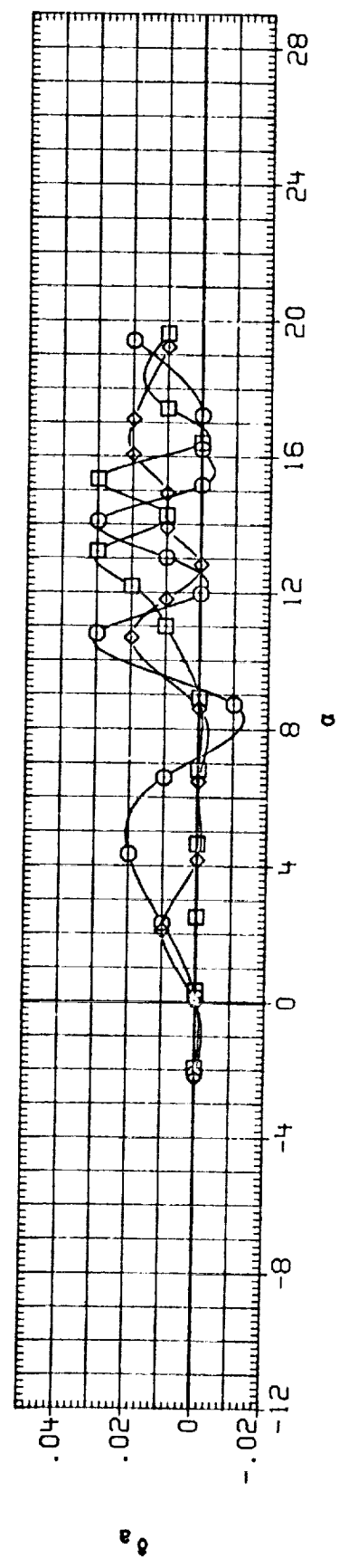
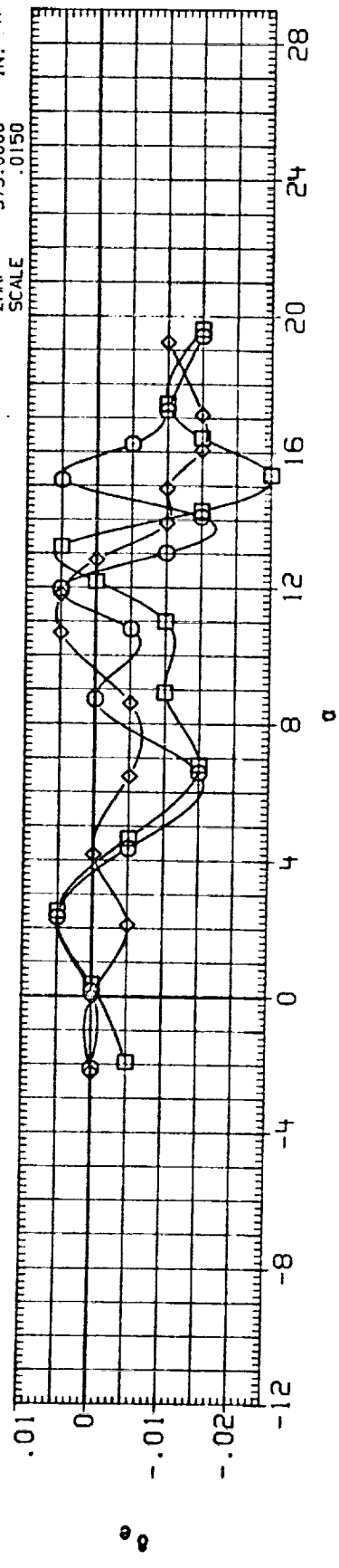


FIG. 05 EFFECT OF SIDESLIP, RN/L = 4.5

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK001) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK004) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK018) ◇ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

BETA .000

RN/L 3.500

ELEVON .000

AIRLON .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BRCF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

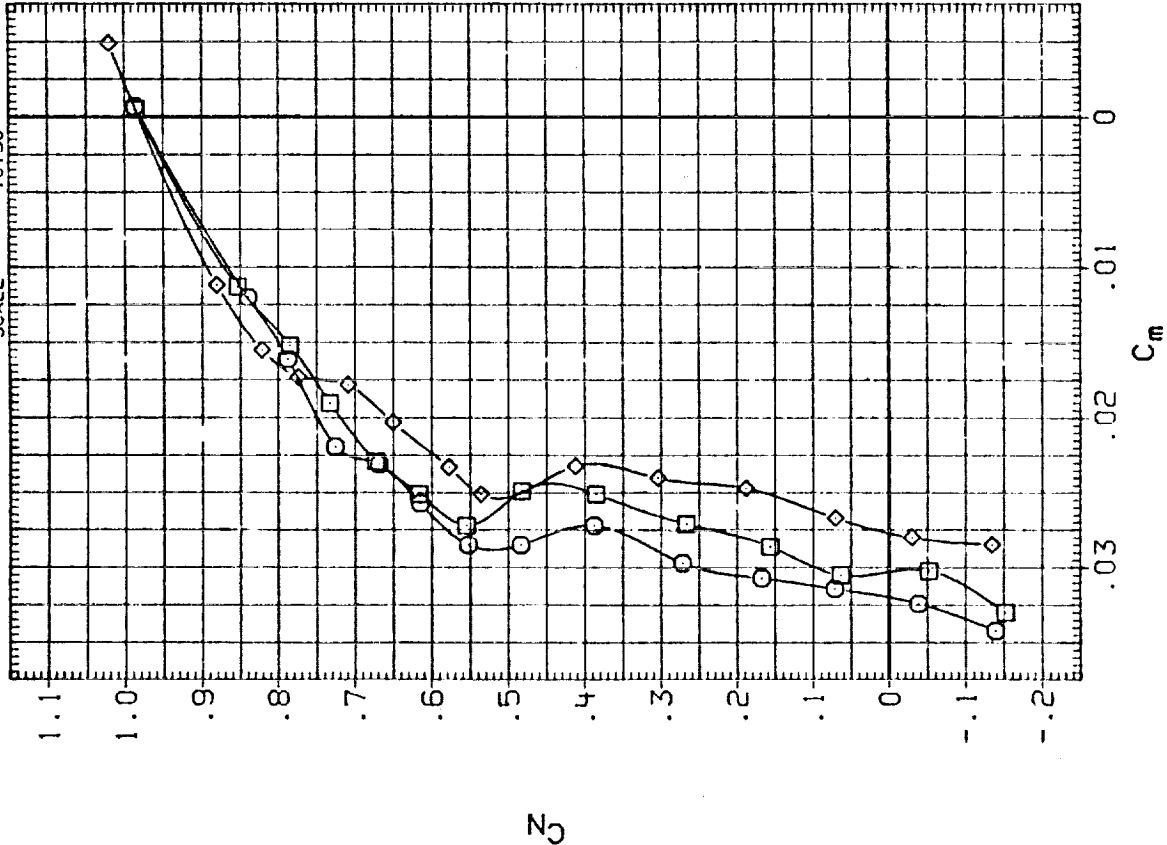
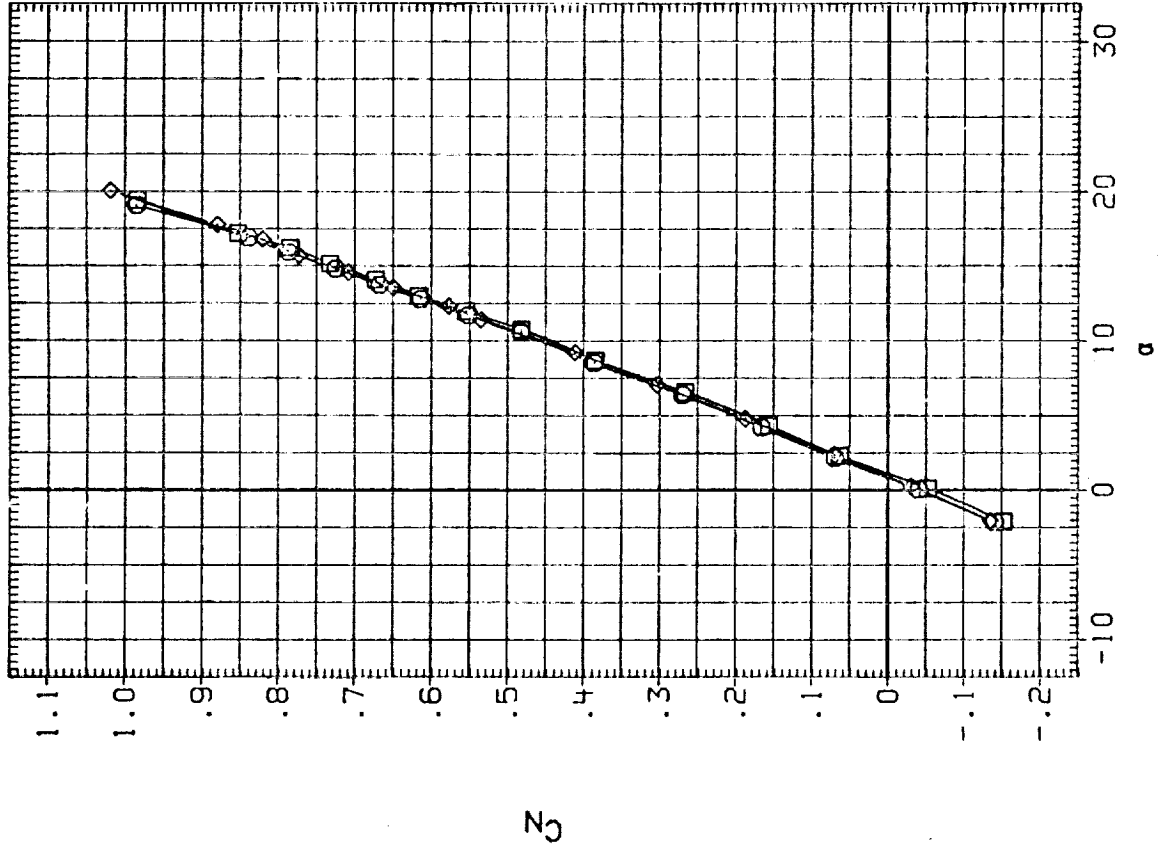


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK001) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (RUK004) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (RUK018) ◇ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

BETA RN/L ELEVON AILRON
 .000 3.500 .000 .000
 .000 4.500 .000 .000
 .000 8.000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

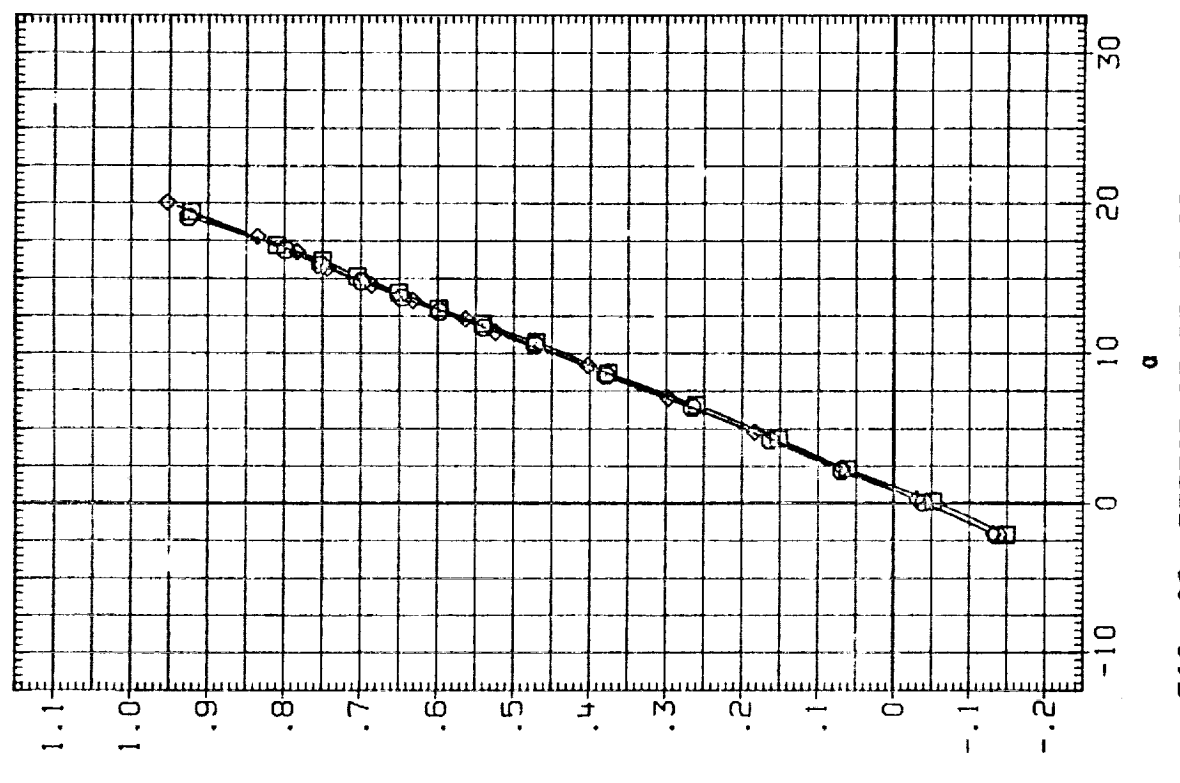
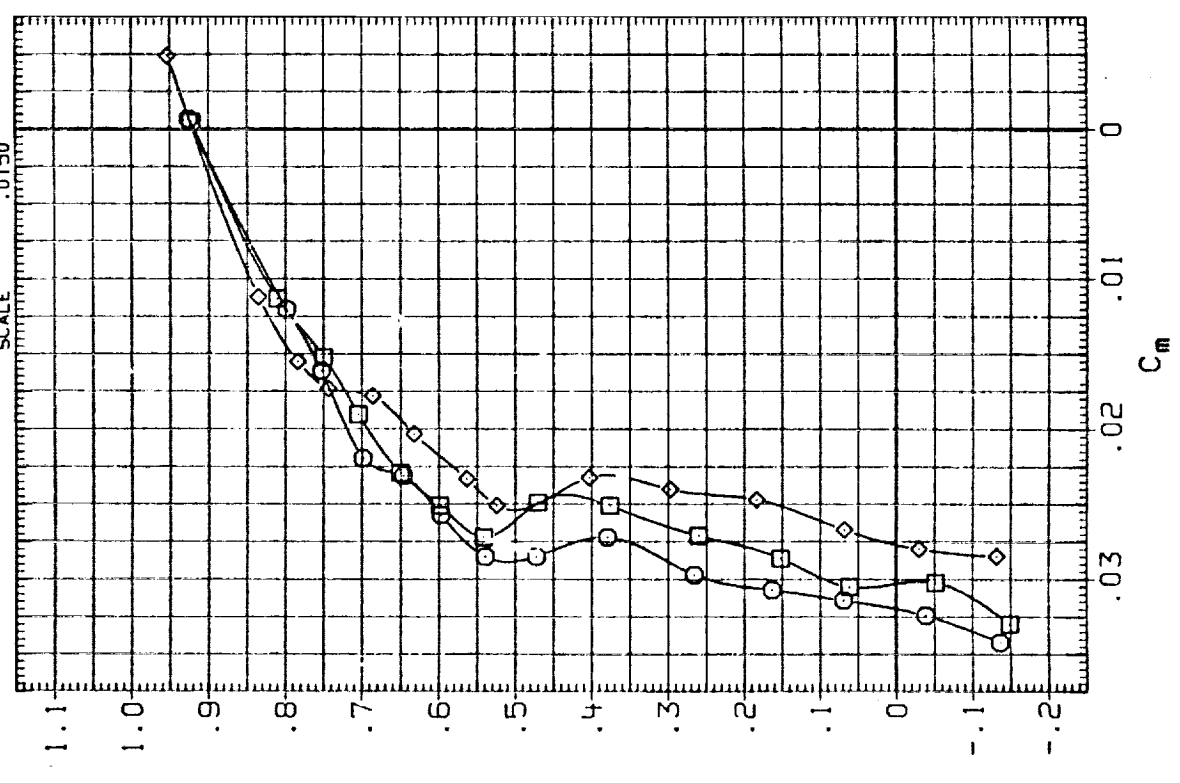


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK001) □ LA70 BASELINE OF LA62 (GAPS OPEN, CRIT ON)
 (RUK004) □ LA70 BASELINE OF LA62 (GAPS OPEN, CRIT ON)
 (RUK018) ◇ LA70 BASELINE OF LA62 (GAPS OPEN, CRIT ON)

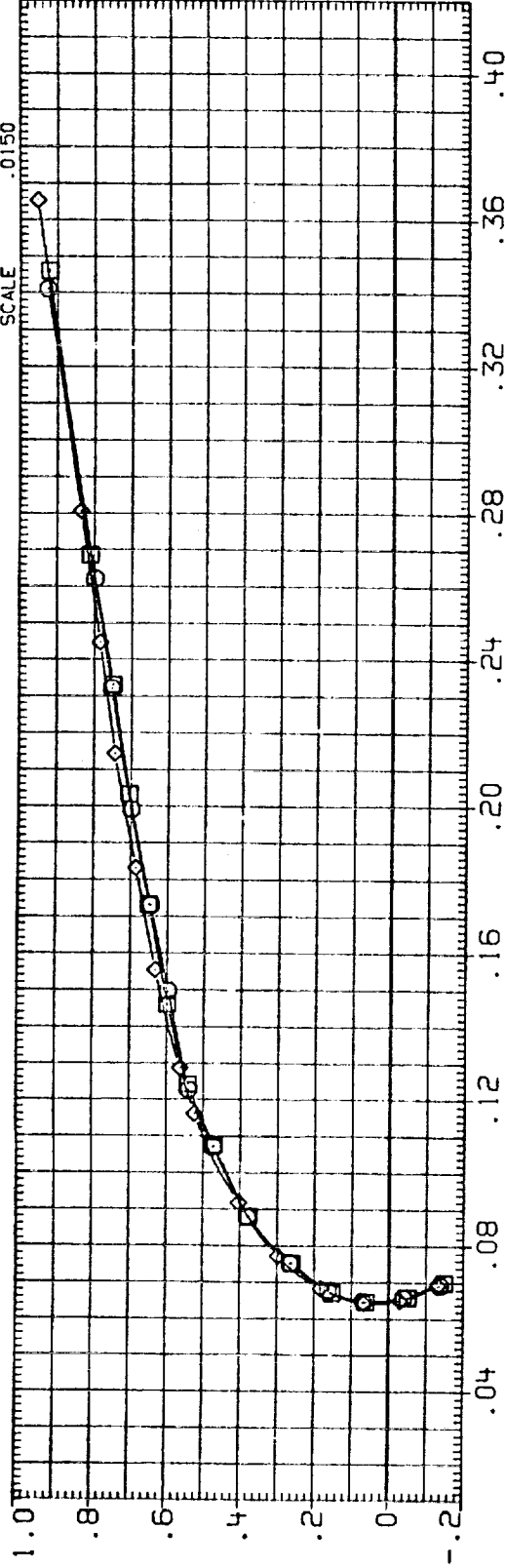
BETA .000
 .000
 .000

RN/L 3.500
 4.500
 8.000

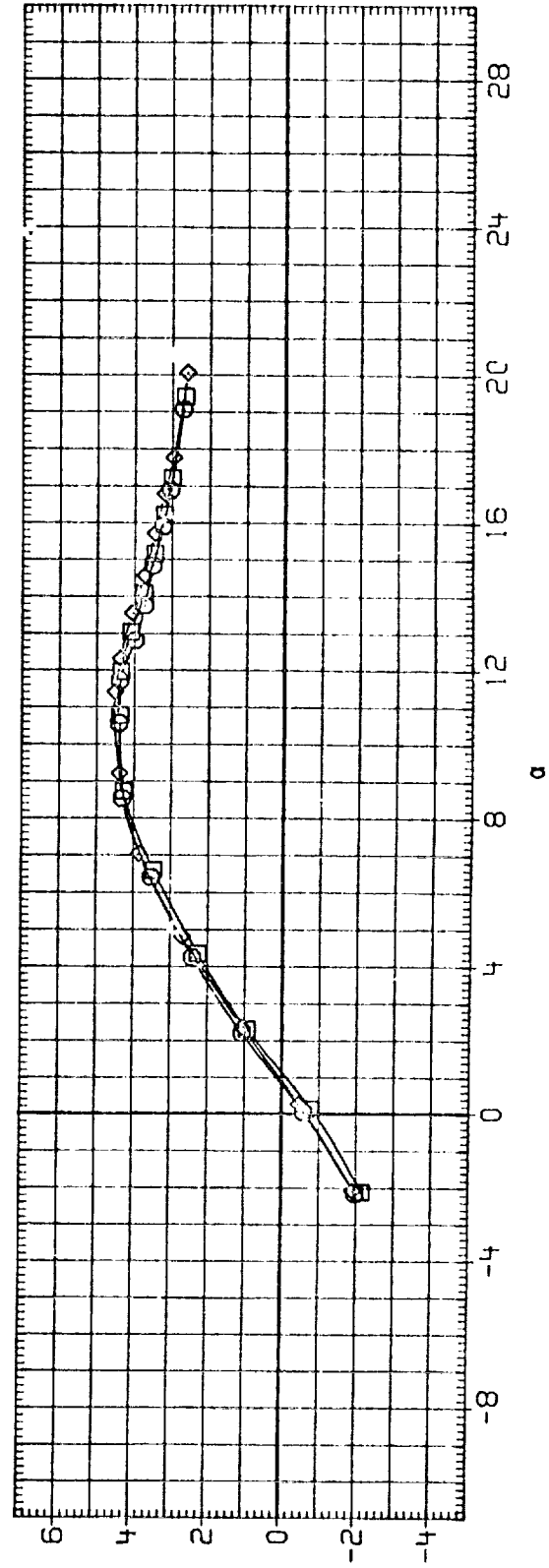
ELEVON .000
 .000
 .000

AILRON .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150



CD



alpha

FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK001) O LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)

(RUK004) □ LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)

(RUK018) ◇ LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)

BETA RN/L ELEVON AILRON

.000 3.500 .000 .000

.000 4.500 .000 .000

.000 8.000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6000 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

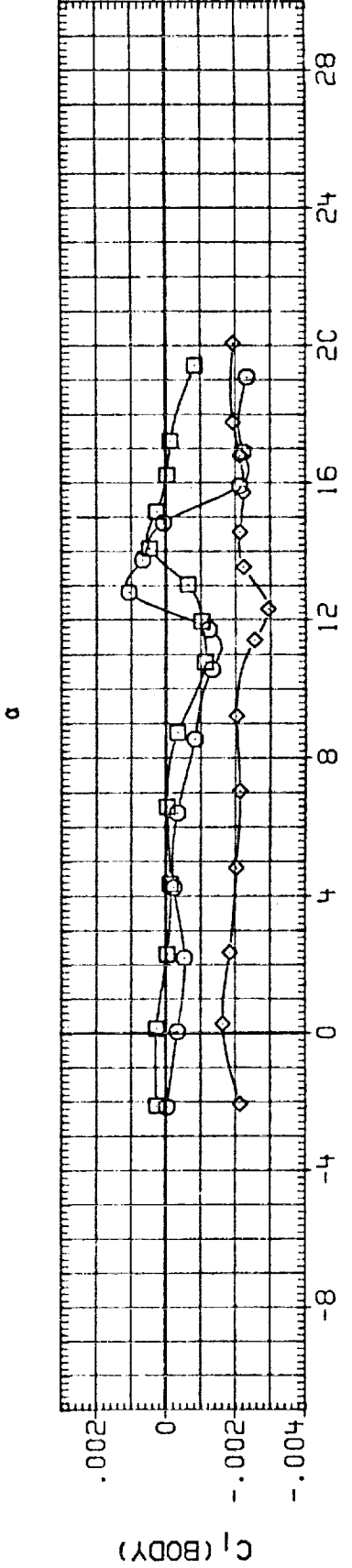
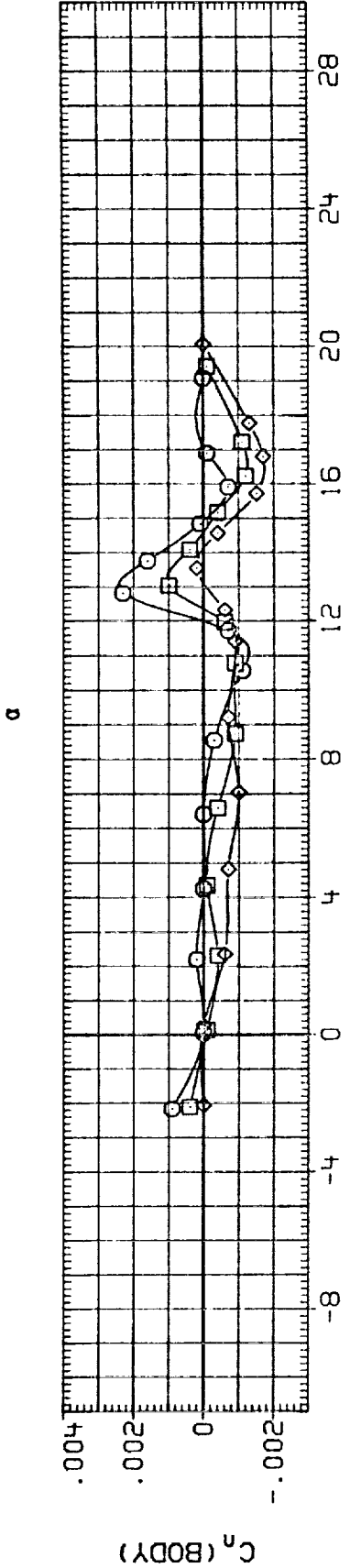
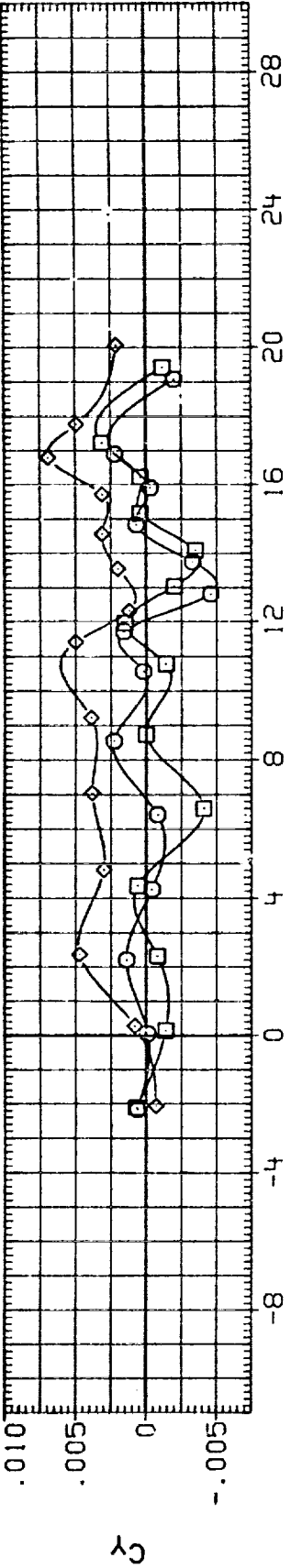


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CUK001) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (CUK004) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (CUK018) ◇ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

BETA .000
 .000
 .000
 RN/L 3.500
 4.500
 8.000
 ELEVON .000
 .000
 .000
 AIRLON .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

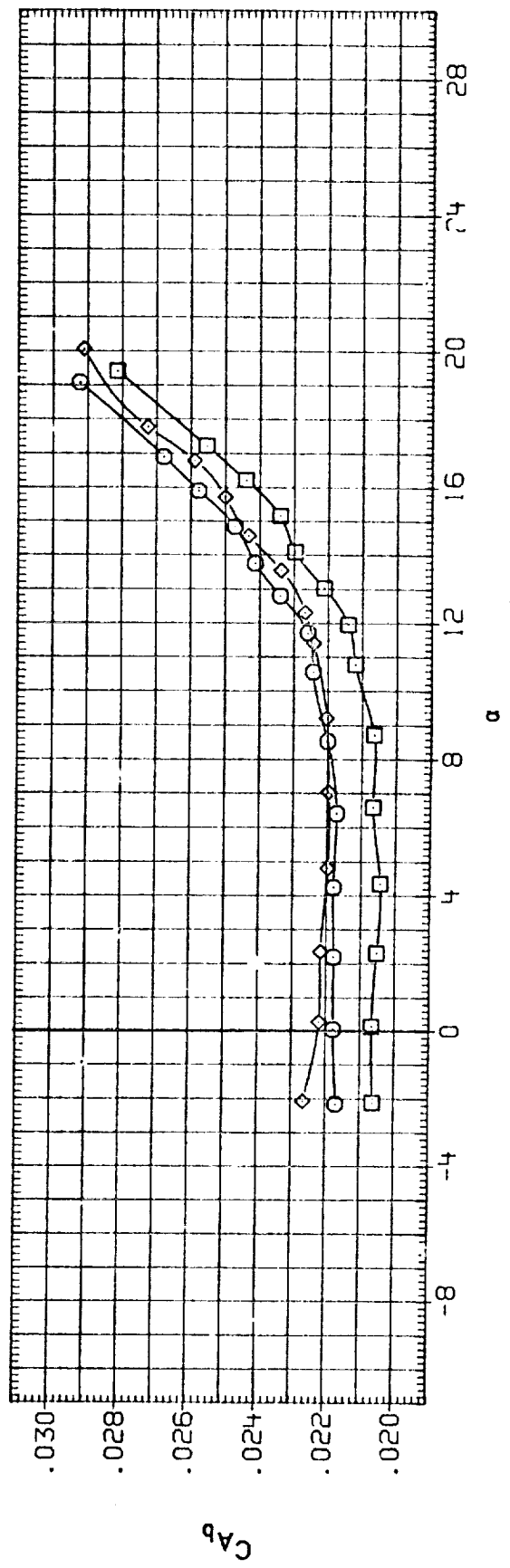
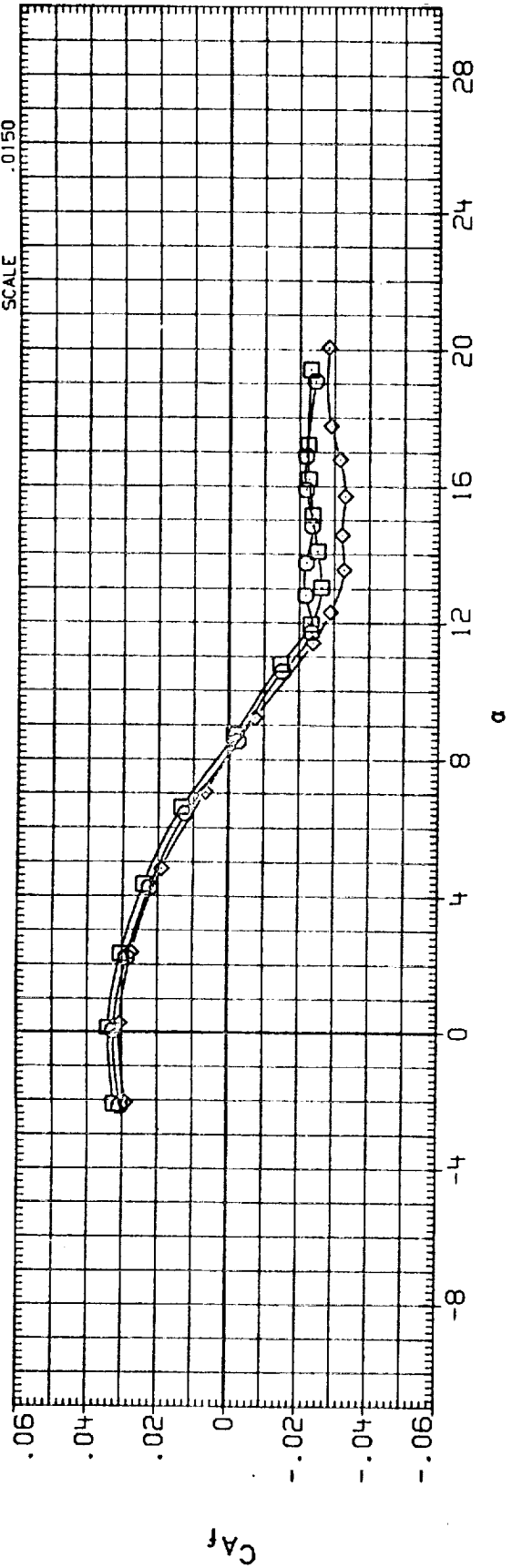


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK001) ○ LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

(CUK004) □ LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

(CUK018) ◇ LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

BETA RN/L ELEVON AIRLON

.000 3.500 .000 .000

.000 4.500 .000 .000

.000 8.000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XREF 1076.7000 IN. X0

YREF .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

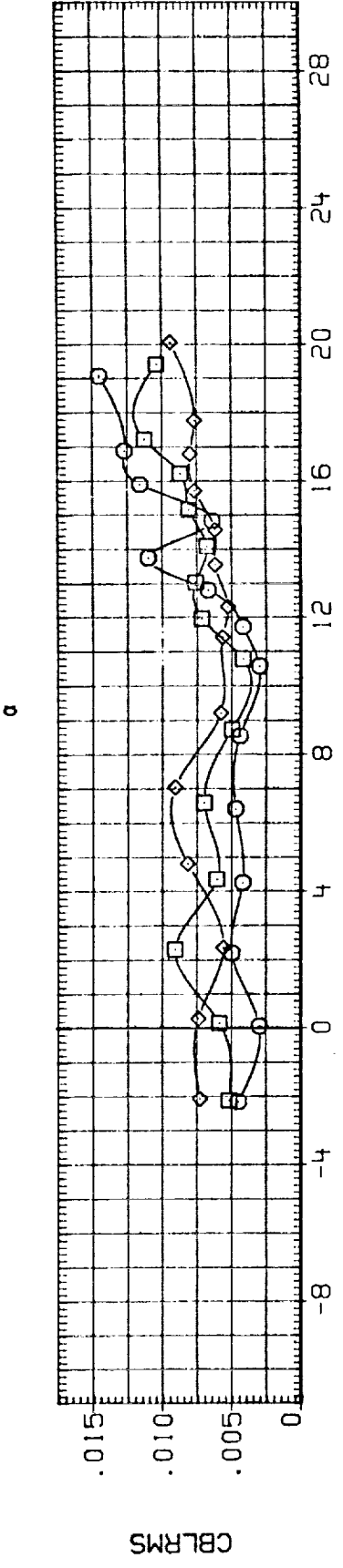
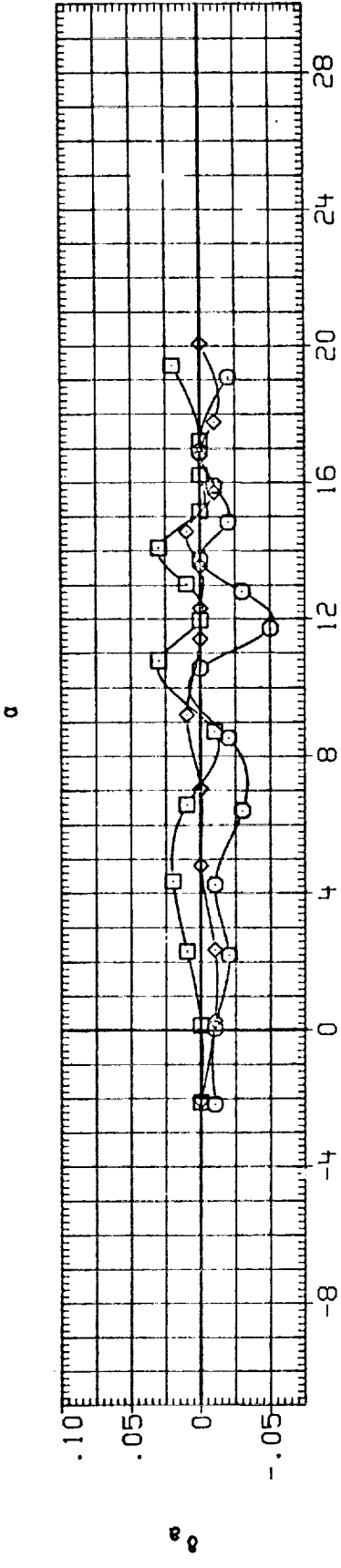
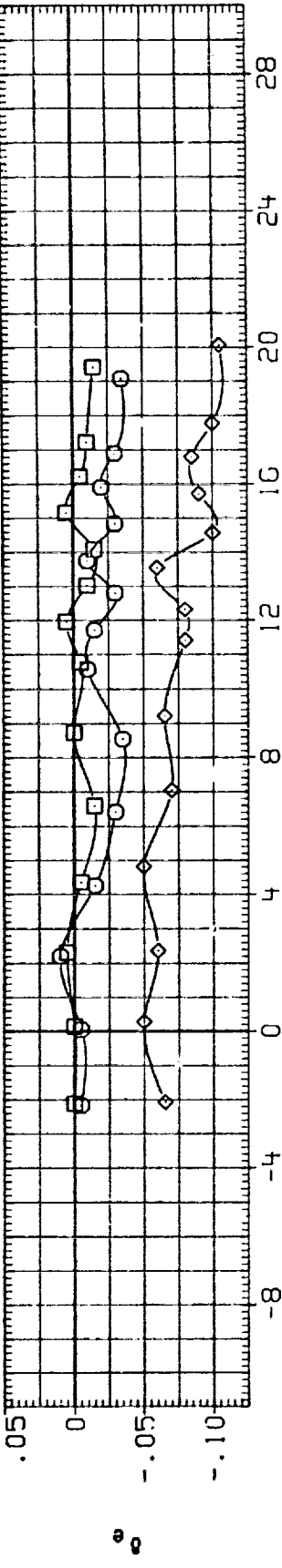


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK001) LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)
 (RUK004) LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)

BETA .000
 .000
 RN/L 3.500
 4.500
 ELEVON .000
 .000
 AIRLON .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

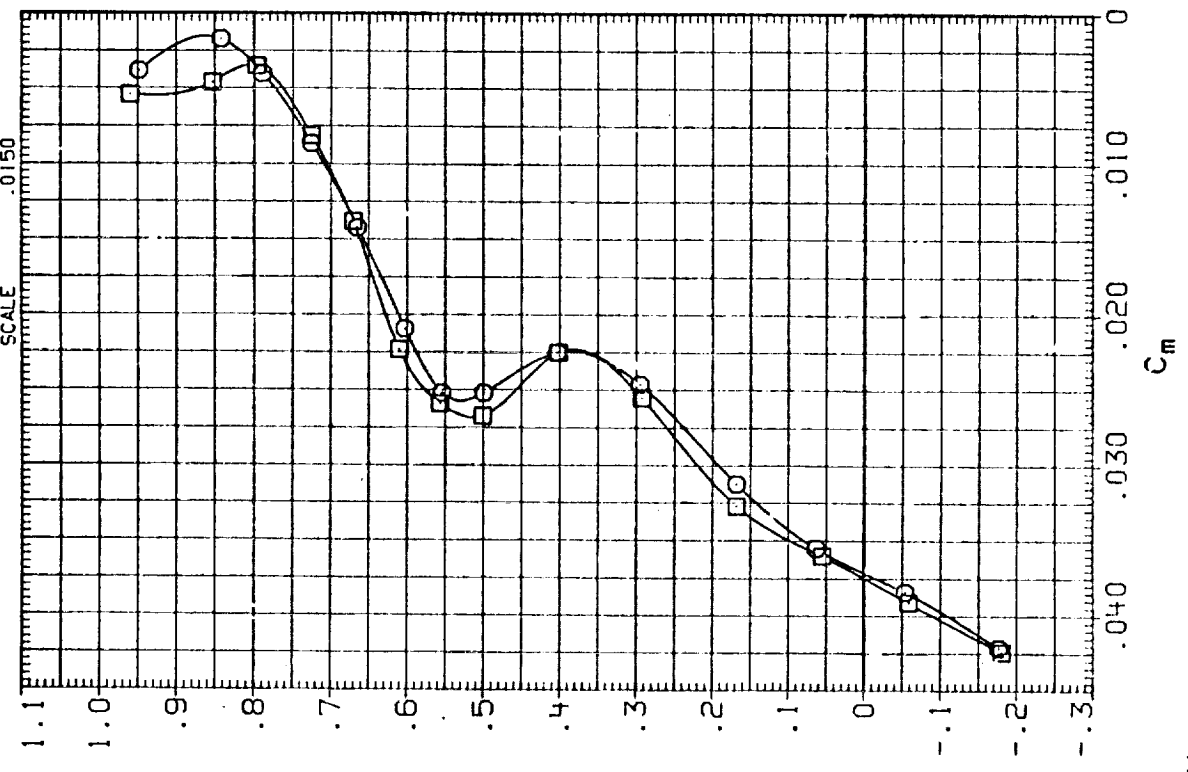
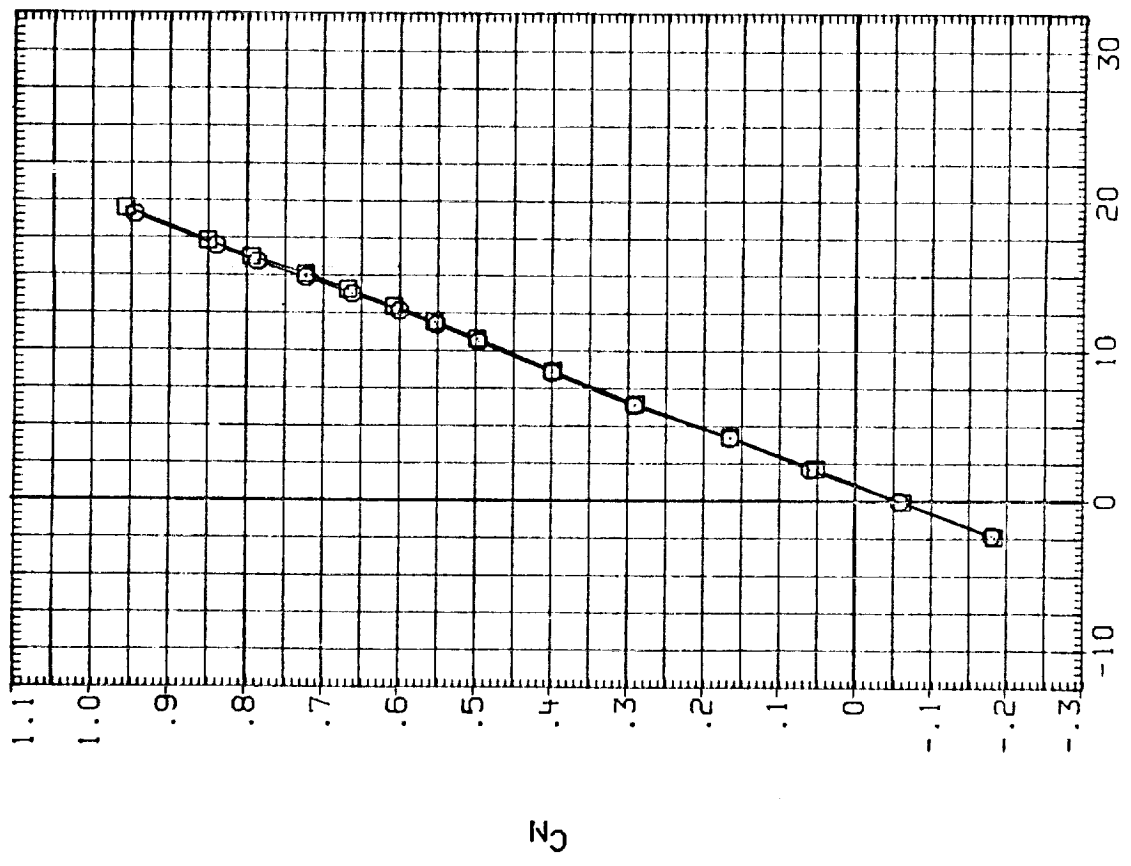


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A)MACH = .80

DATA SET SYMBOL
(RUK001)
(RUK004)

CONFIGURATION DESCRIPTION
LA70 EASELINE OF LAGE (GAPS OPEN, GRIT ON)
LA70 EASELINE OF LAGE (GAPS OPEN, GRIT ON)

BETA
.000
.000

RM/L
3.500
4.500

ELEVON
.000
.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8000 INCHES
BREF 936.6800 INCHES
XM:XP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

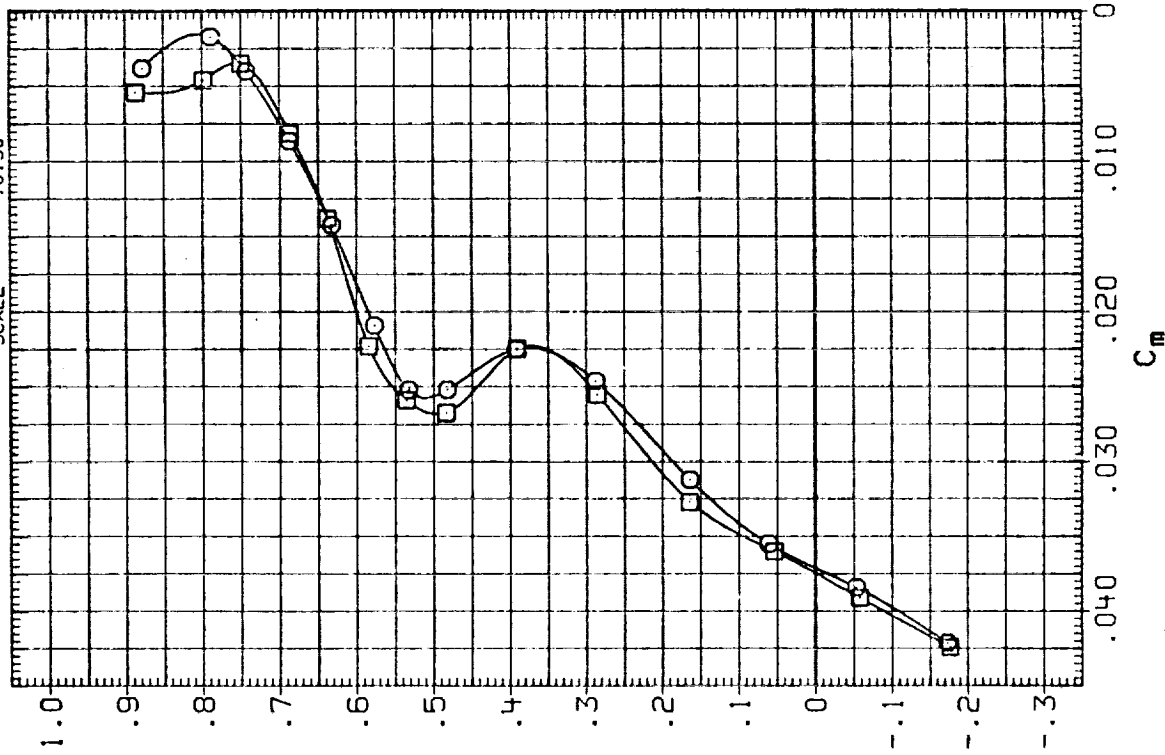
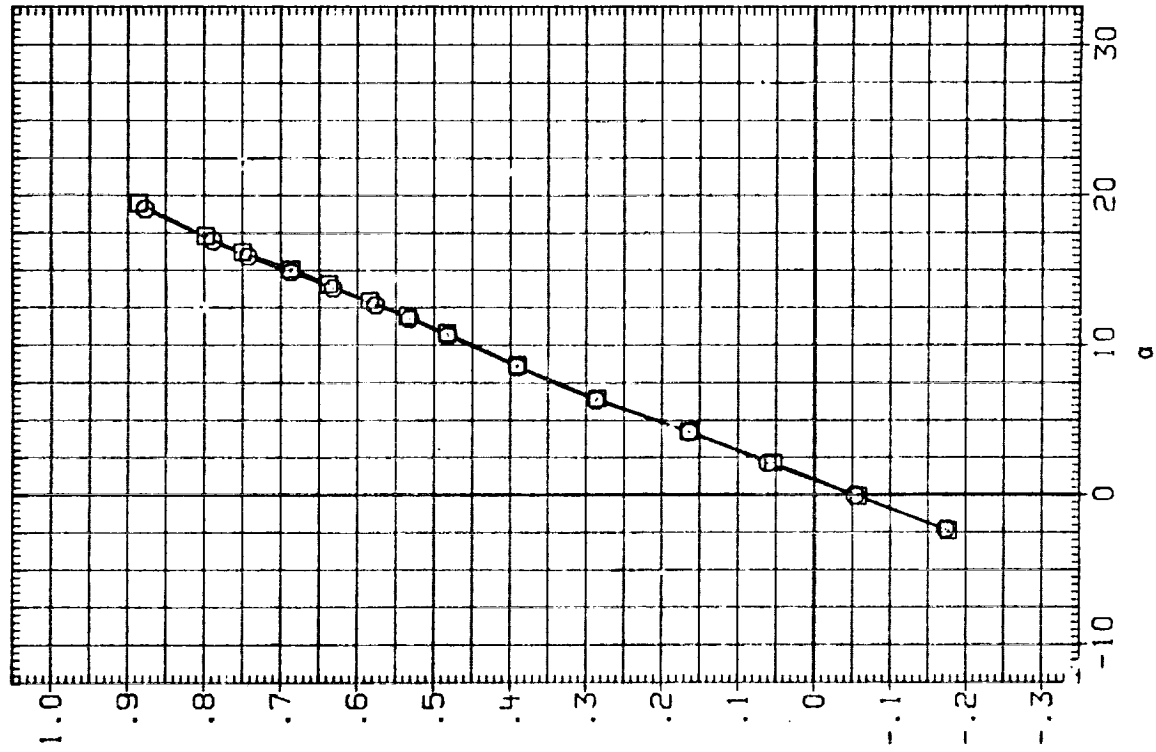


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .80

| | | | | | | |
|-----------------|--|------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
| (RUK001) | LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON) | .000 | 3.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK004) | LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

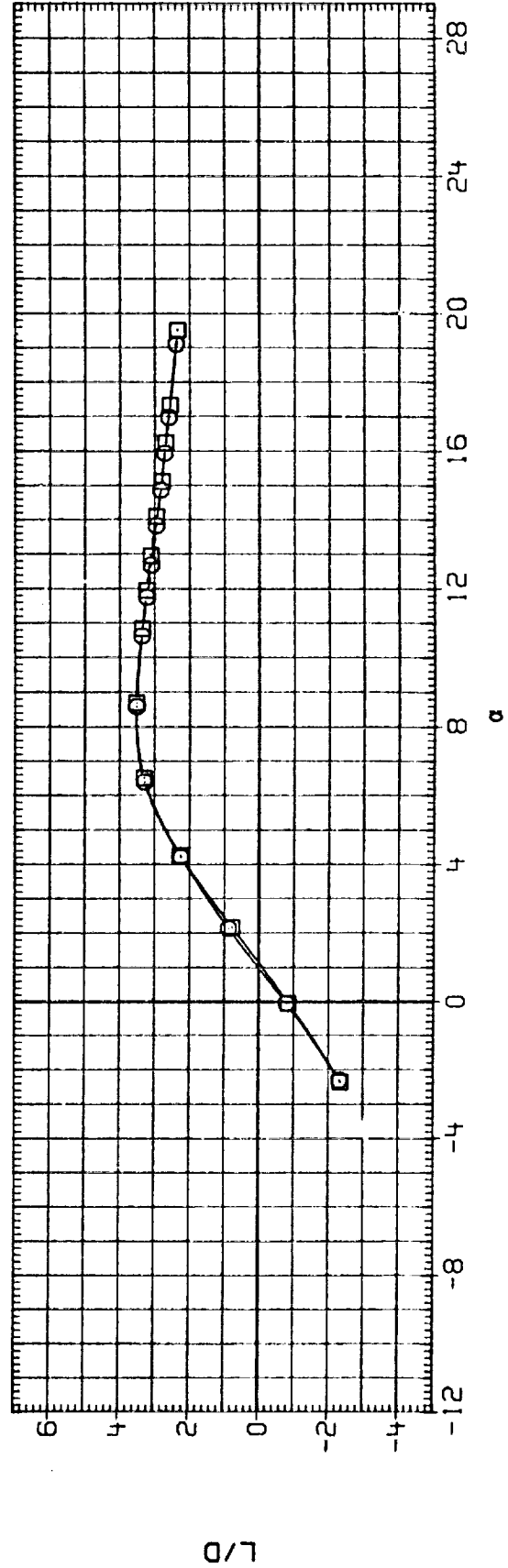
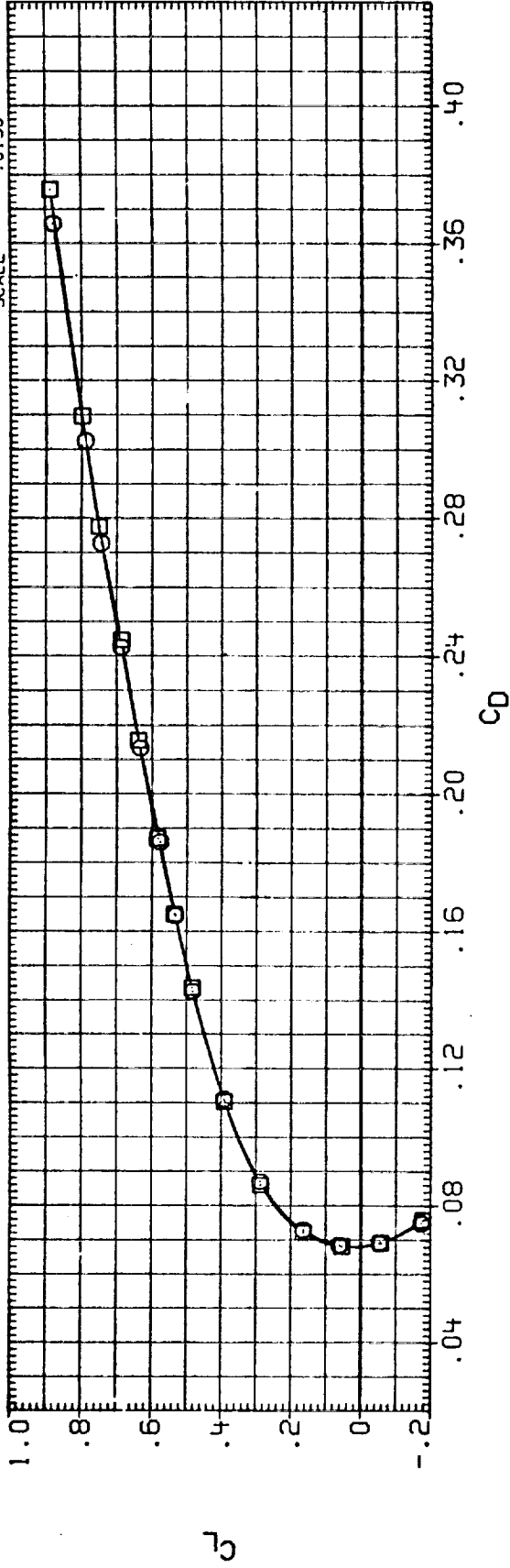


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/VL | ELEVON | AILLON | REFERENCE INFORMATION |
|-----------------|--|------|-------|--------|--------|------------------------|
| (RUK001) | LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON) | .000 | 3.500 | .000 | .000 | SREF 2690.0000 SQ. FT. |
| (RUK004) | LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF 471.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

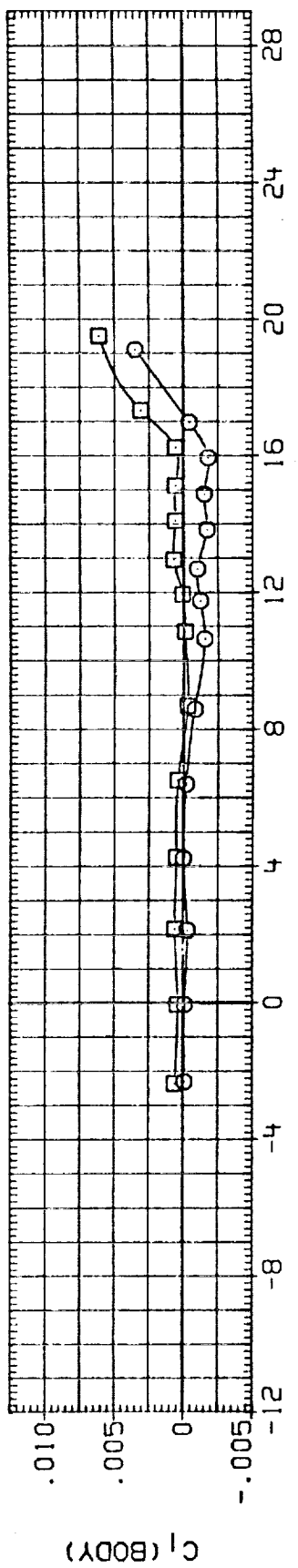
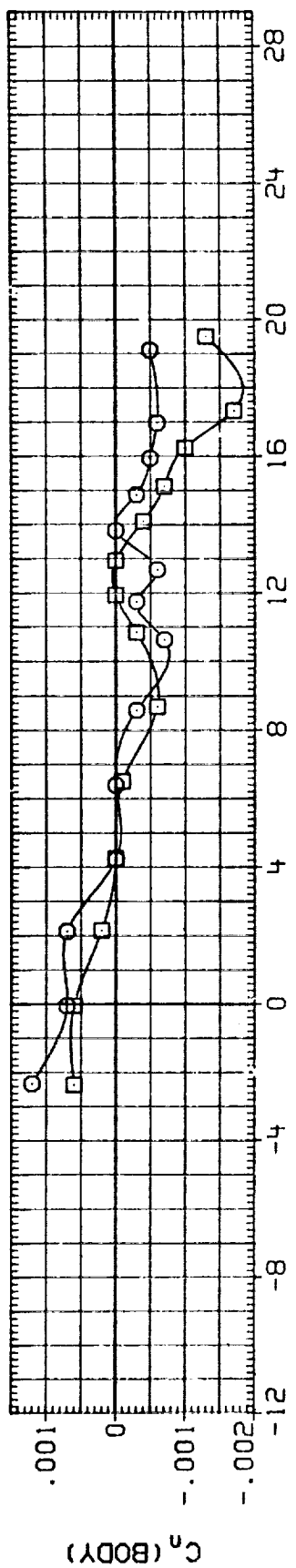
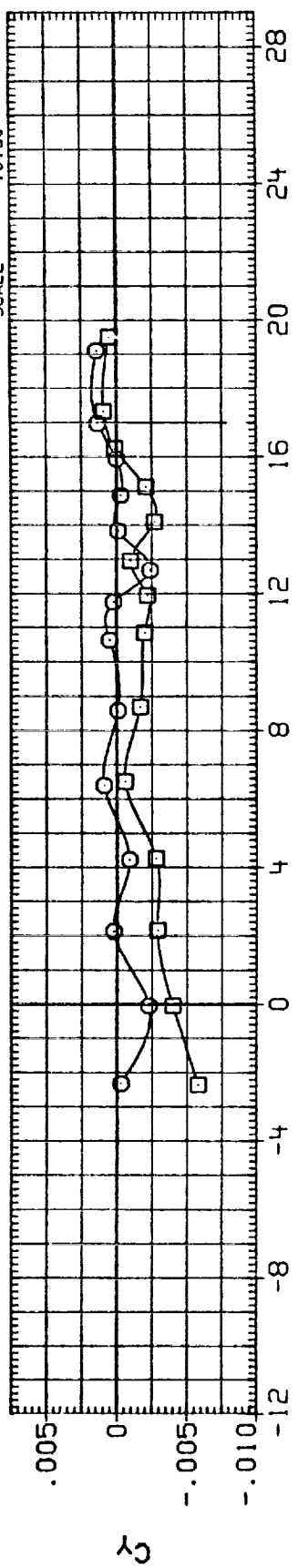


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CUK001) ○ LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON)
 (CUK004) □ LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON)

BETA .000
 RN/L 3.500
 ELEVON .000
 AIRLON .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

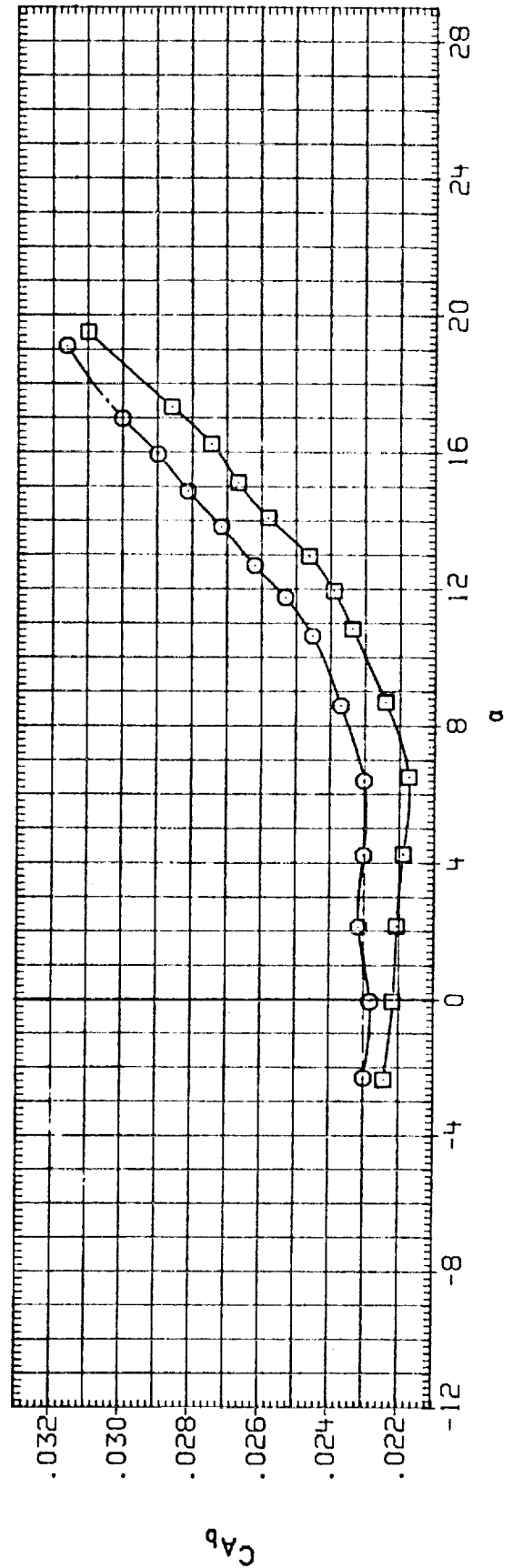
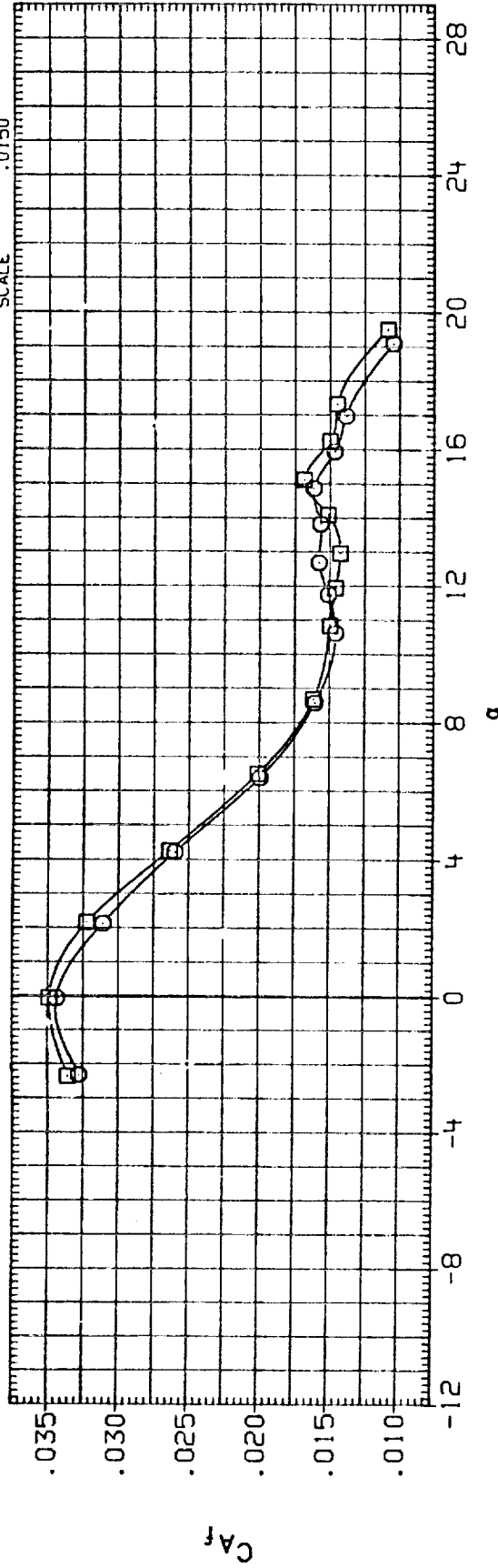


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK001) □ LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)

(CUK004) ○ LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)

BETA RN/L ELEVON AILRON

.000 3.500 .000 .000

.000 4.500 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0030 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .9150

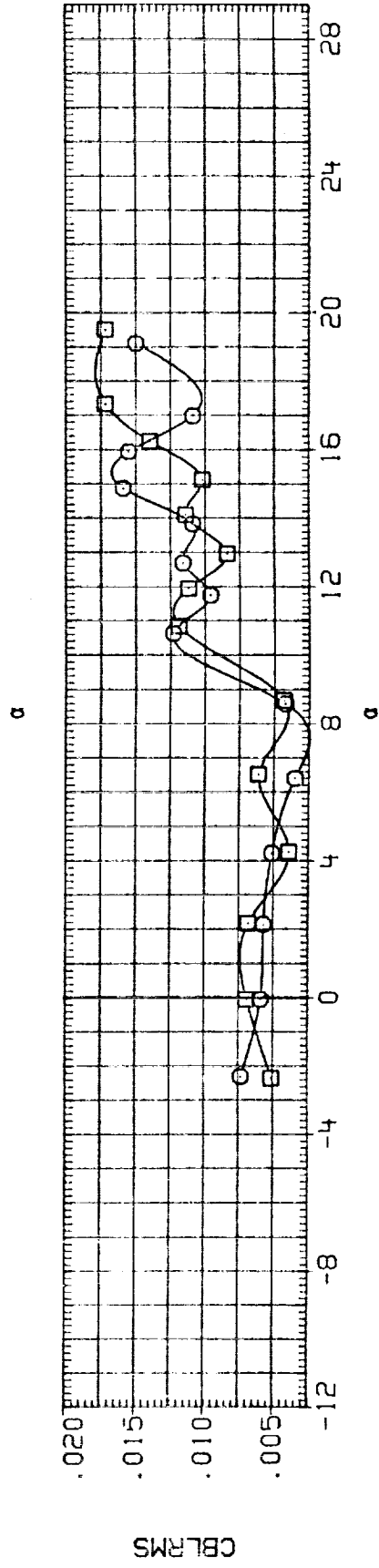
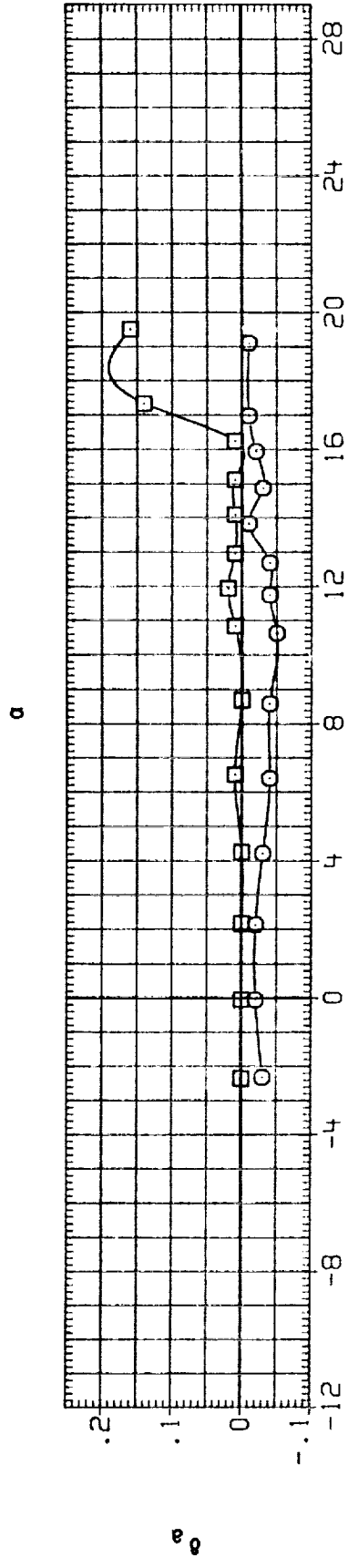
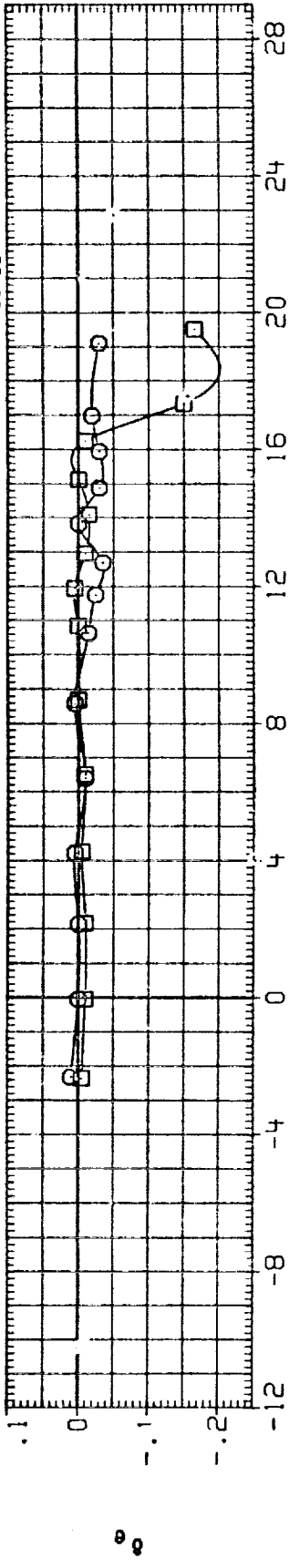


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A)MACH = .80

| | | | | | | |
|-----------------|--|-------|-------|--------|--------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AILRON | REFERENCE INFORMATION |
| (RUK007) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 3.500 | .000 | .000 | .000 | SREF 2690.0000 SQ. FT. |
| (RUK009) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

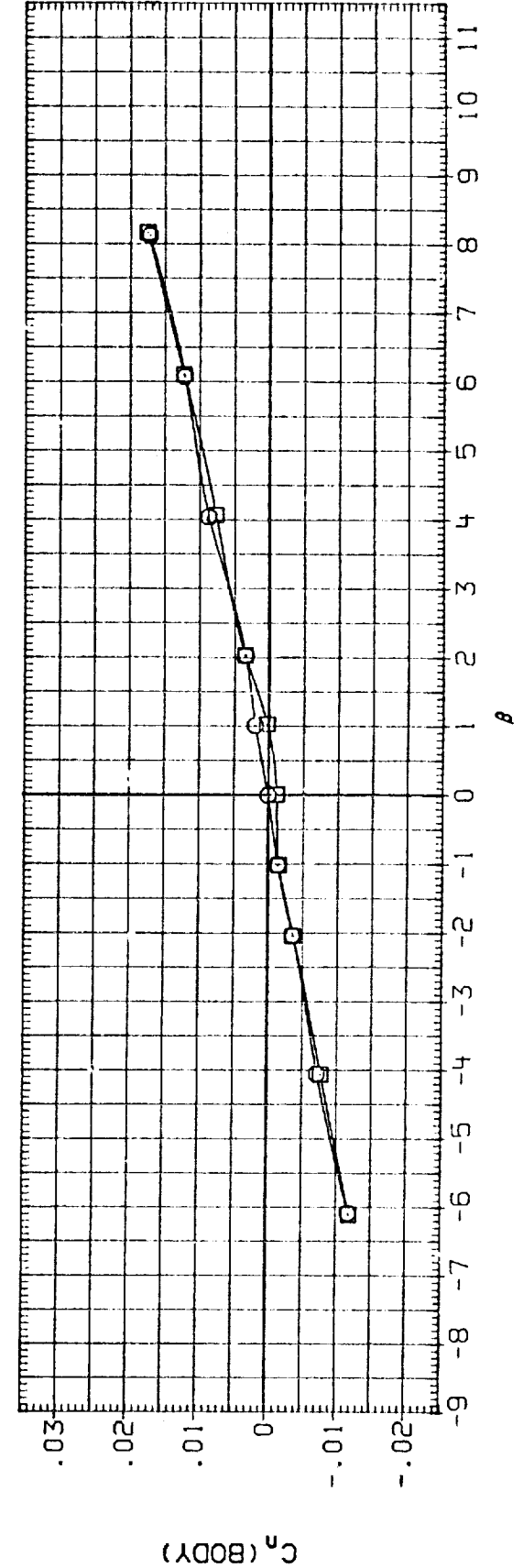
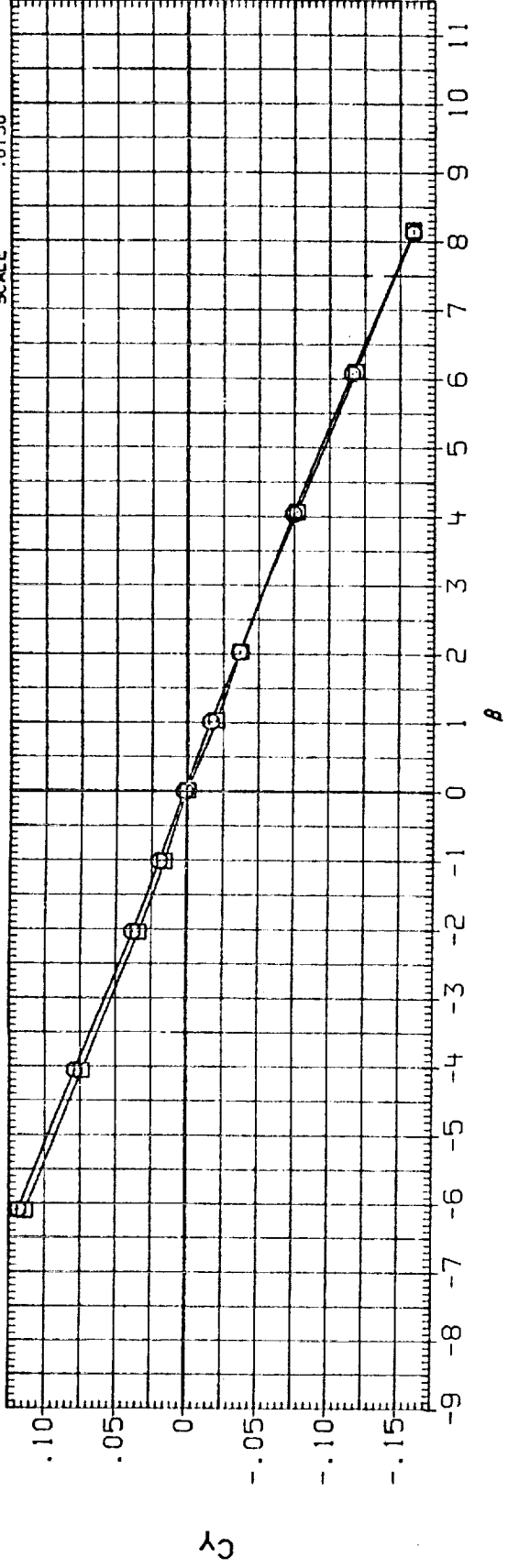


FIG. 07 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 0

DATA SET SYMBOL (RUK007) (RUK009)

CONFIGURATION DESCRIPTION
 LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)
 LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

RN/L 3.500
 4.500

ALPHA .000
 .000

ELEVON .000
 .000

AILRON .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

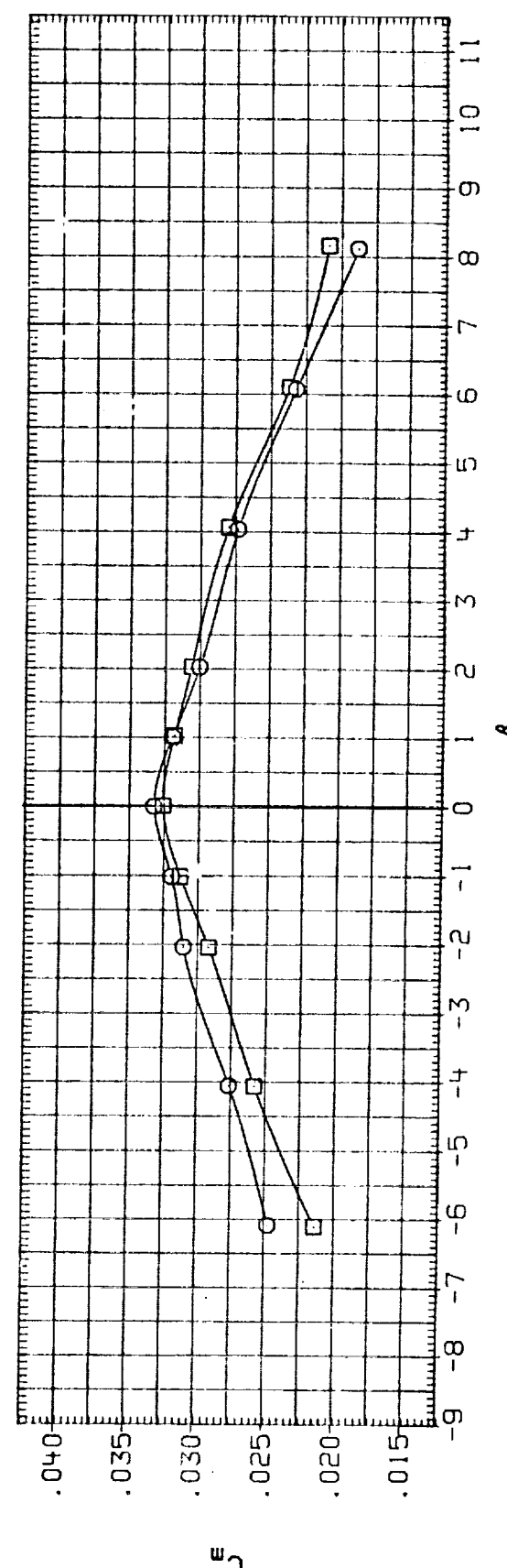
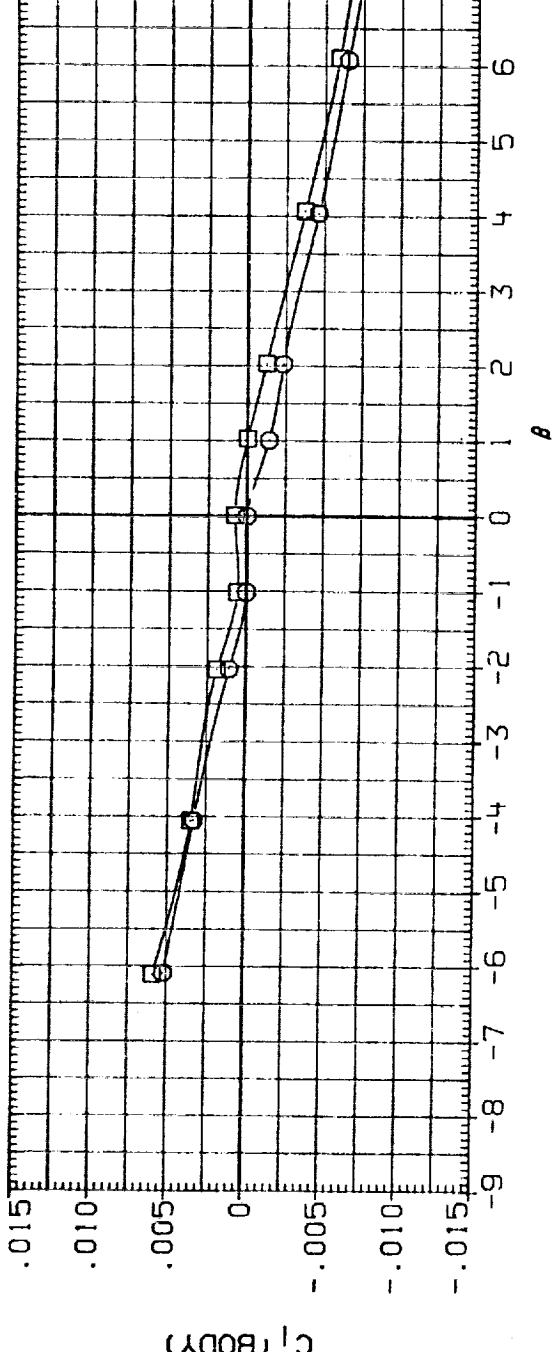


FIG. 07 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 0

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK007) ○ LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)
 (RUK009) □ LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

RN/L ALPHA ELEVON AIRLON REFERENCE INFORMATION
 3.500 .000 .000 SREF 2690.0000 SQ.FT.
 4.500 .000 .000 LREF 474.8000 INCHES
 BREF 935.6800 INCHES
 XMRP 1075.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

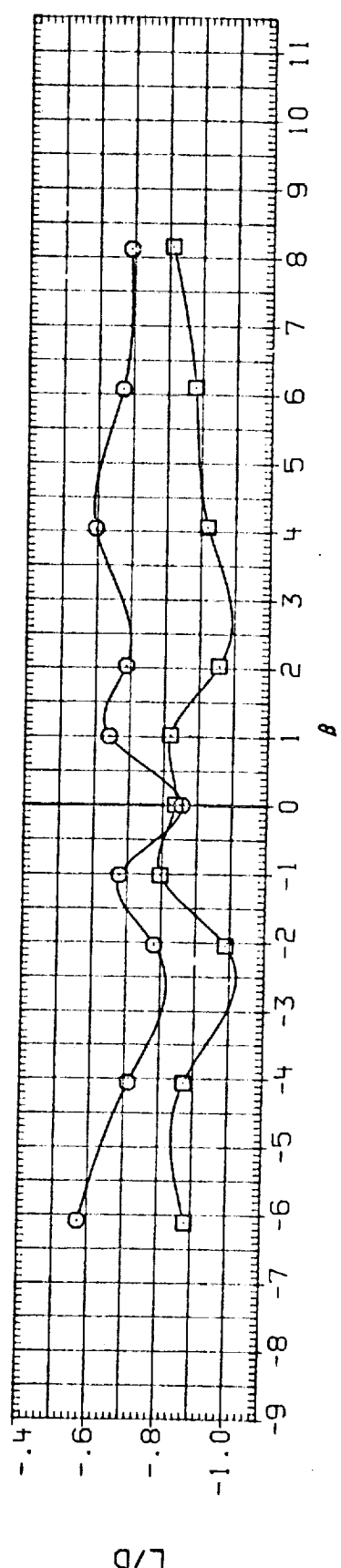
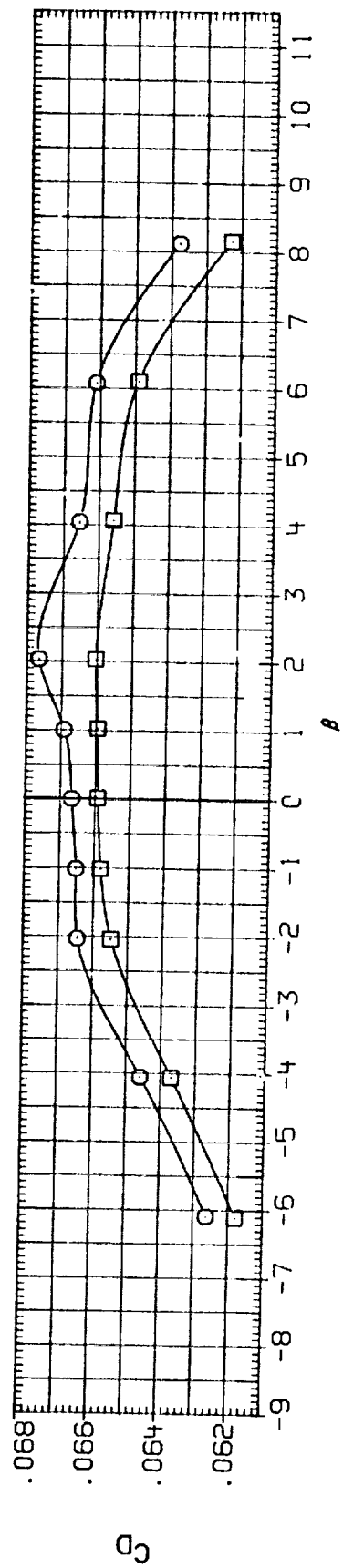
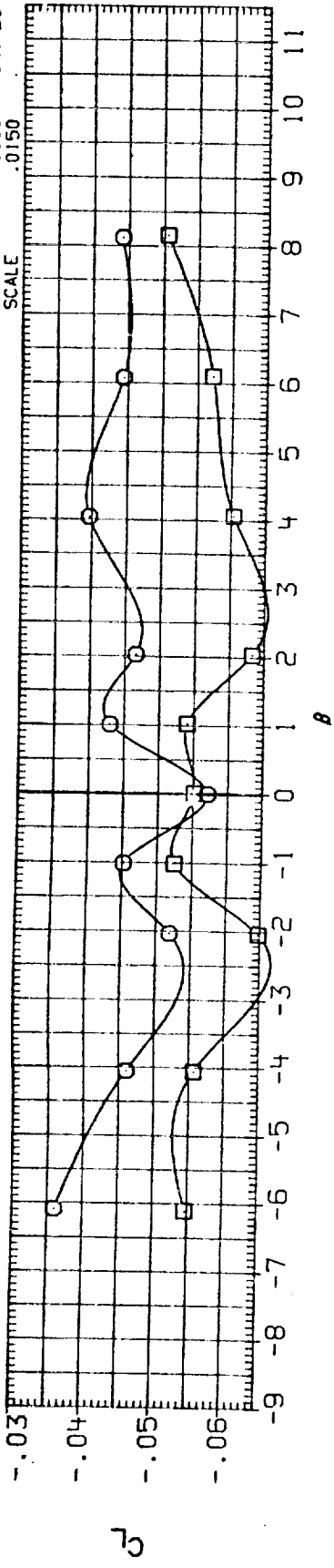


FIG. 07 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 0

(A) MACH = .60

| | | | | | | |
|-----------------|--|-------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AILRON | REFERENCE INFORMATION |
| (CUK007) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 3.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.Ft. |
| (CUK009) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

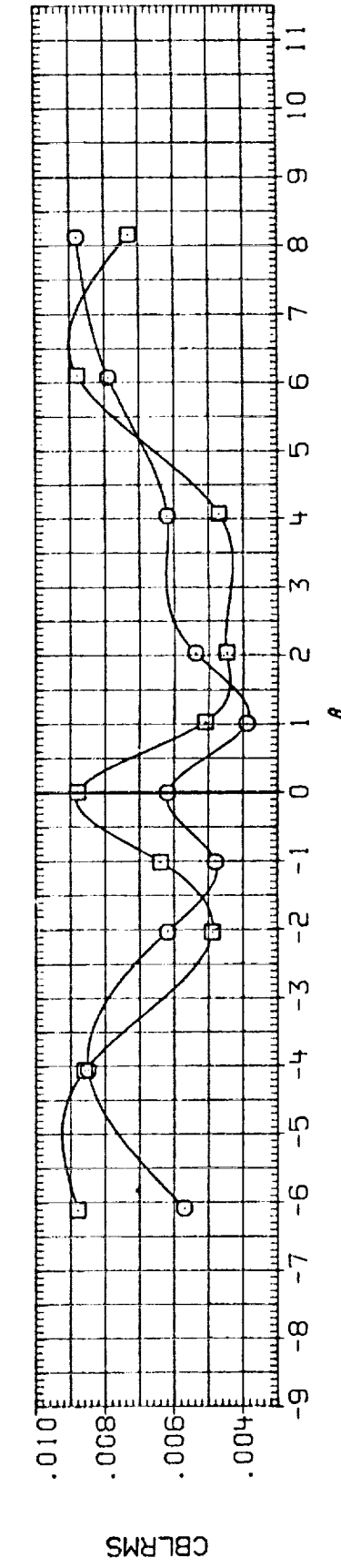
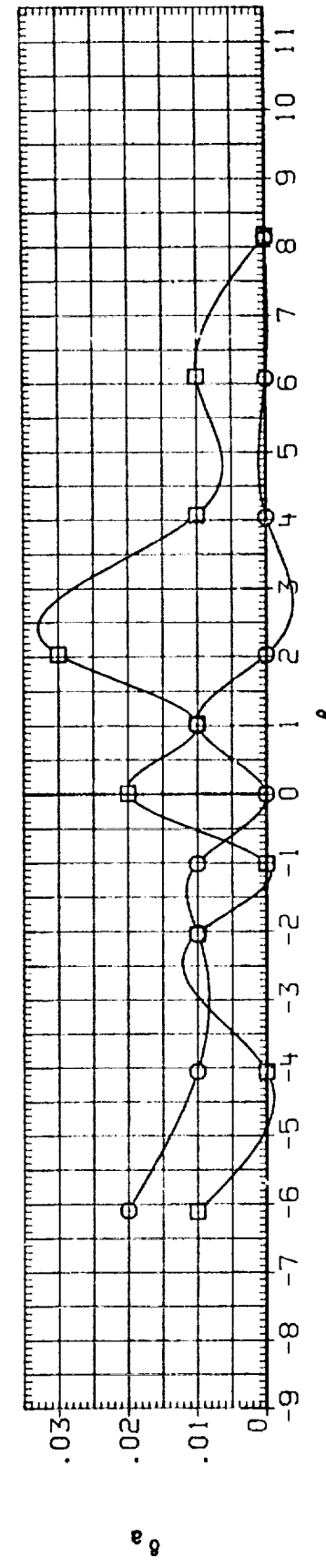
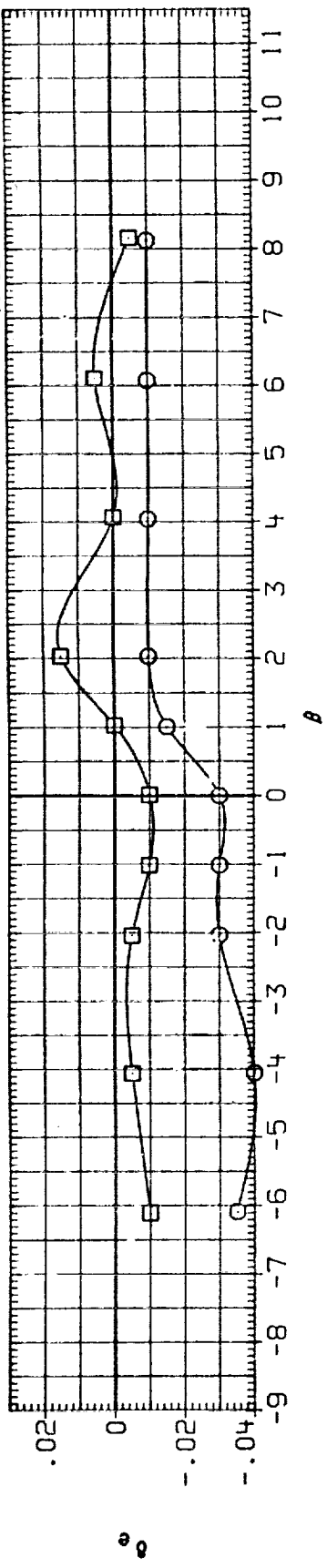


FIG. 07 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 0

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AIRLON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|--------|--------|-----------------------|
| (RUK008) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 3.500 | 13.000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK010) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 4.500 | 13.000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK011) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 8.000 | 13.000 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

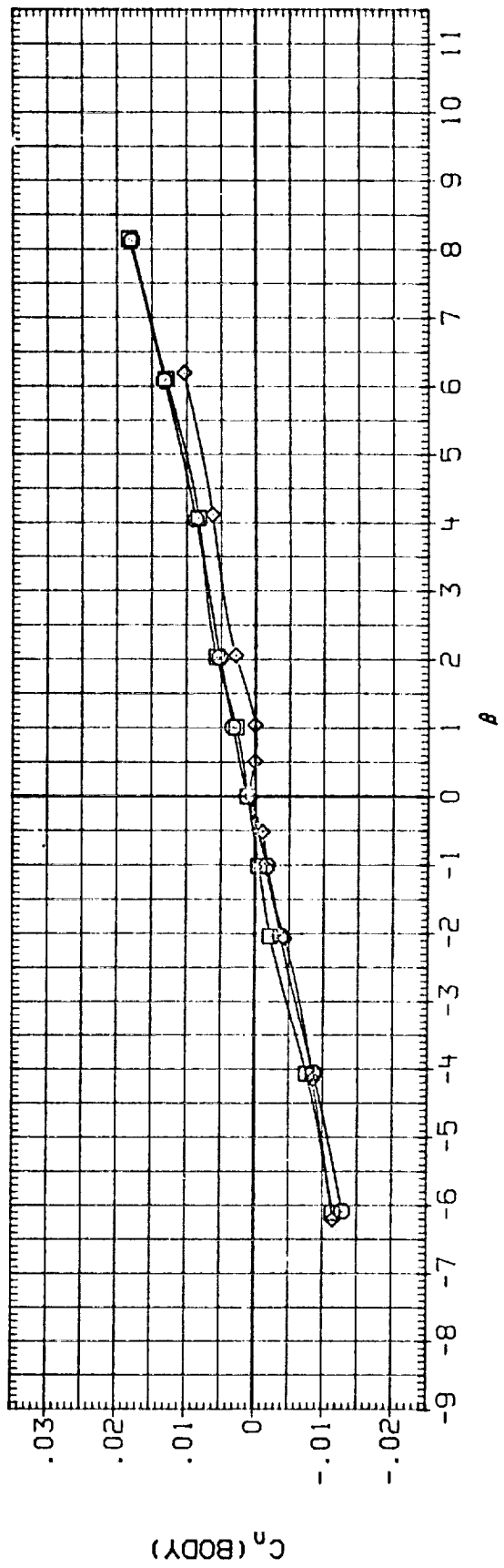
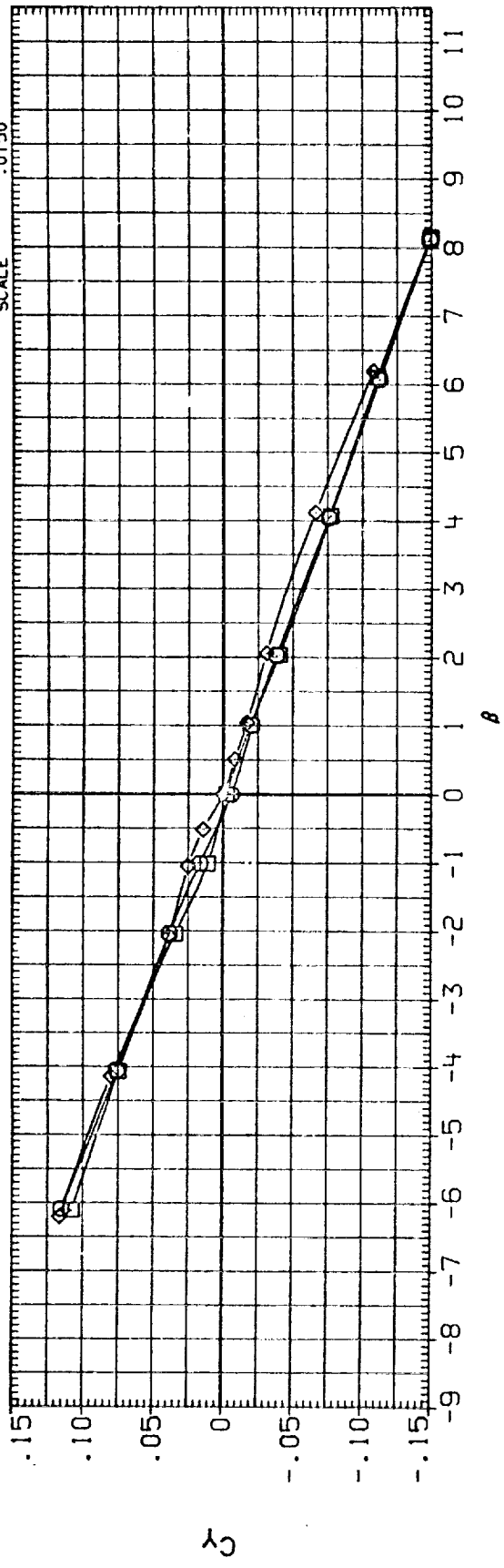


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | A1LRON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|--------|--------|-----------------------|
| (RUK008) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 3.500 | 13.000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK010) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 4.500 | 13.000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK011) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 8.000 | 13.000 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

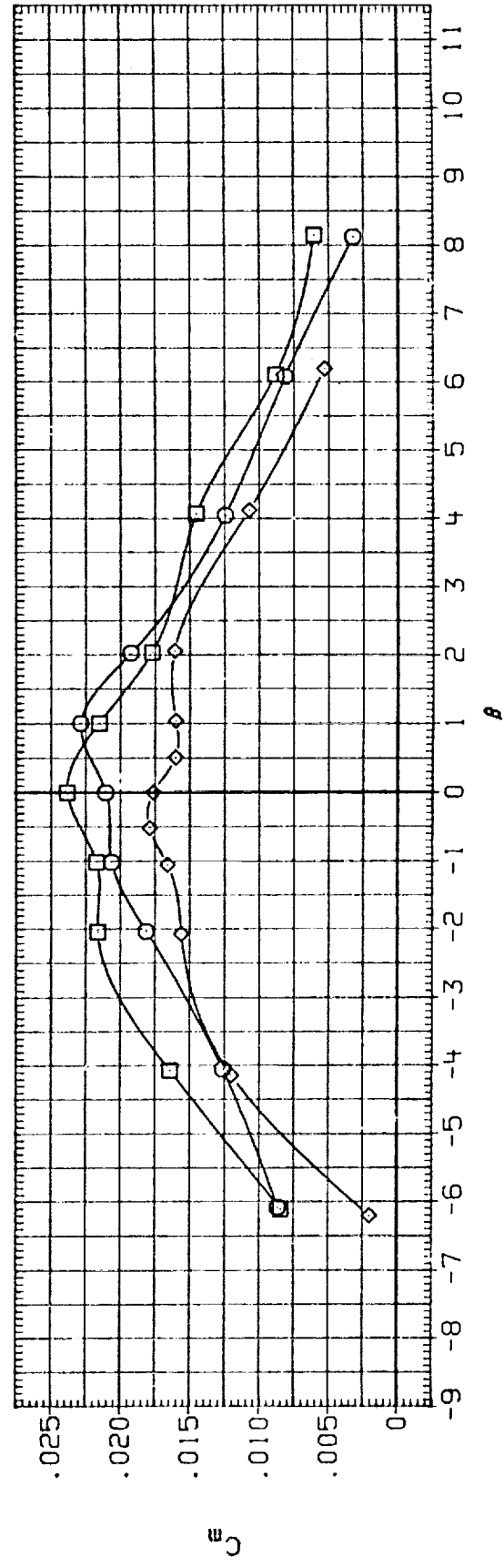
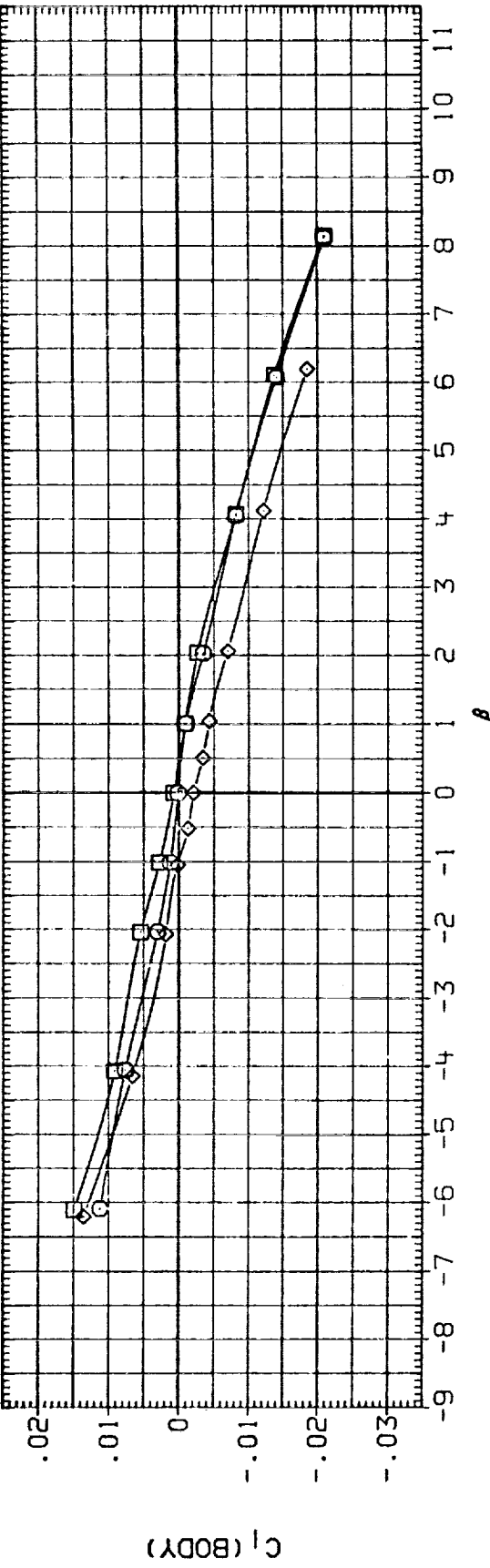


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|--------|--------|-----------------------|
| (RUK008) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 3.500 | 13.000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK010) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 4.500 | 13.000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK011) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 8.000 | 13.000 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

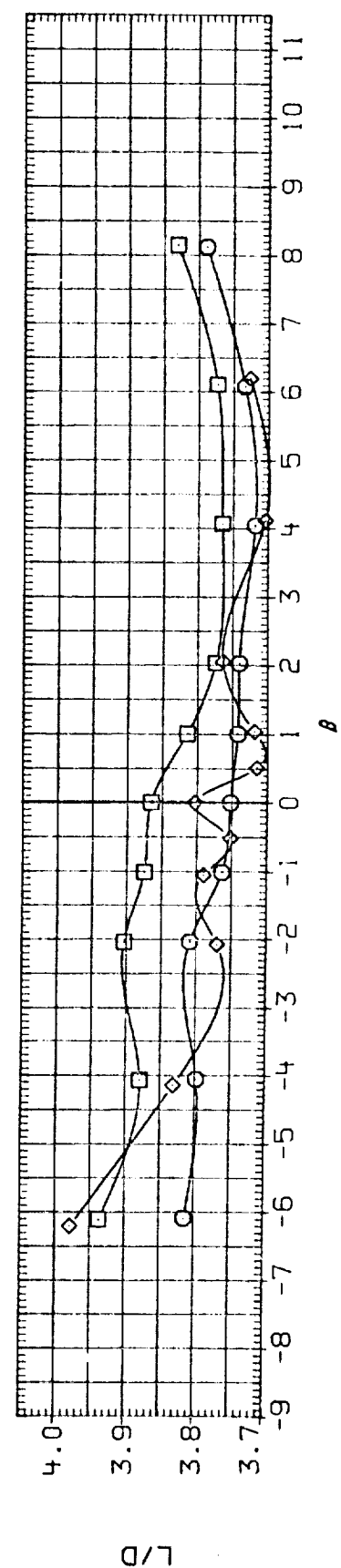
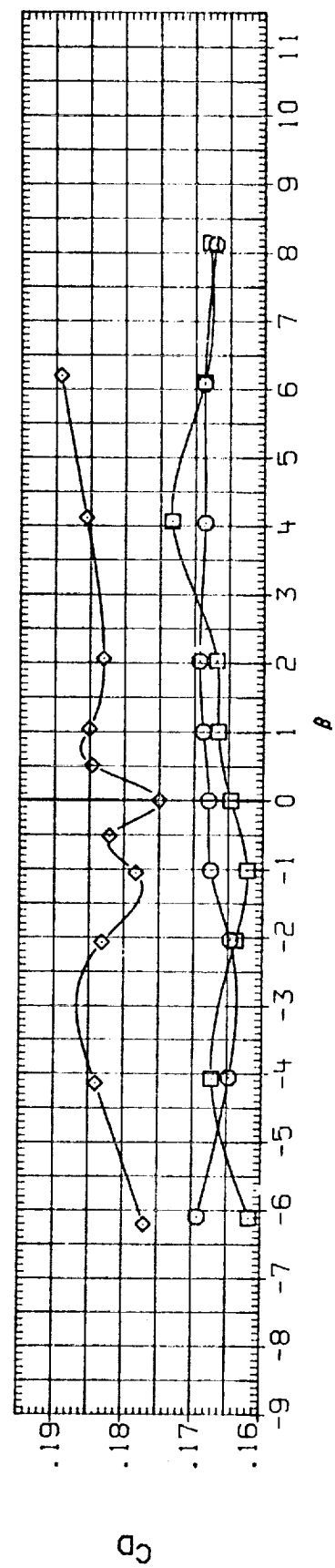
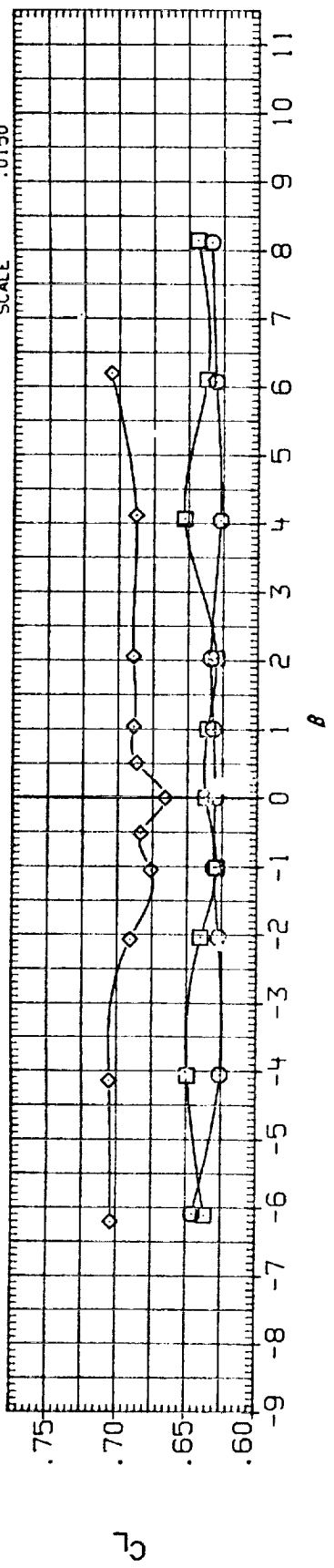


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/VL | ALPHA | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|--------|--------|-----------------------|
| (CUK008) | LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON) | 3.500 | 13.000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK010) | LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON) | 4.500 | 13.000 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK011) | LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON) | 8.000 | 13.000 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

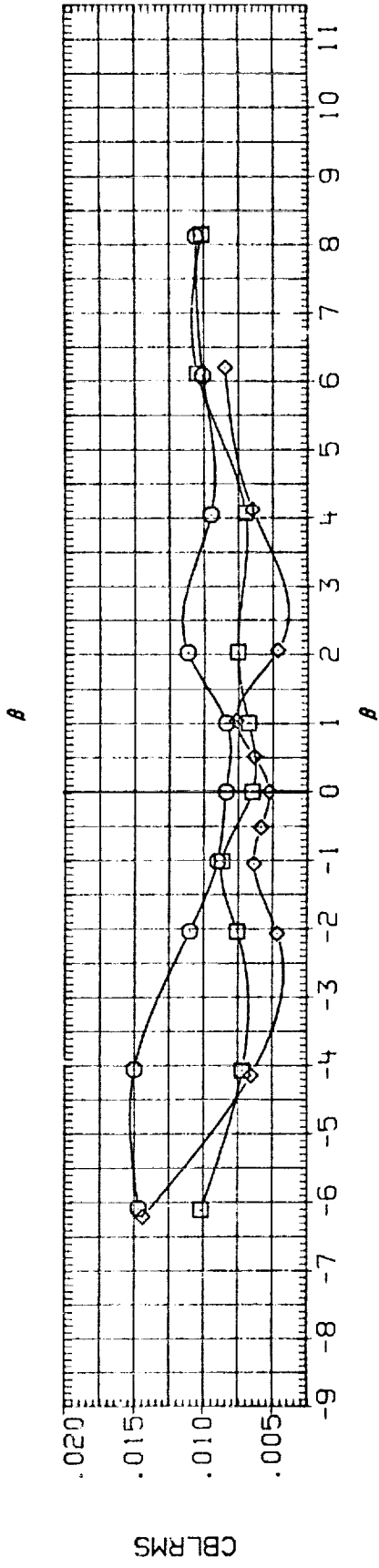
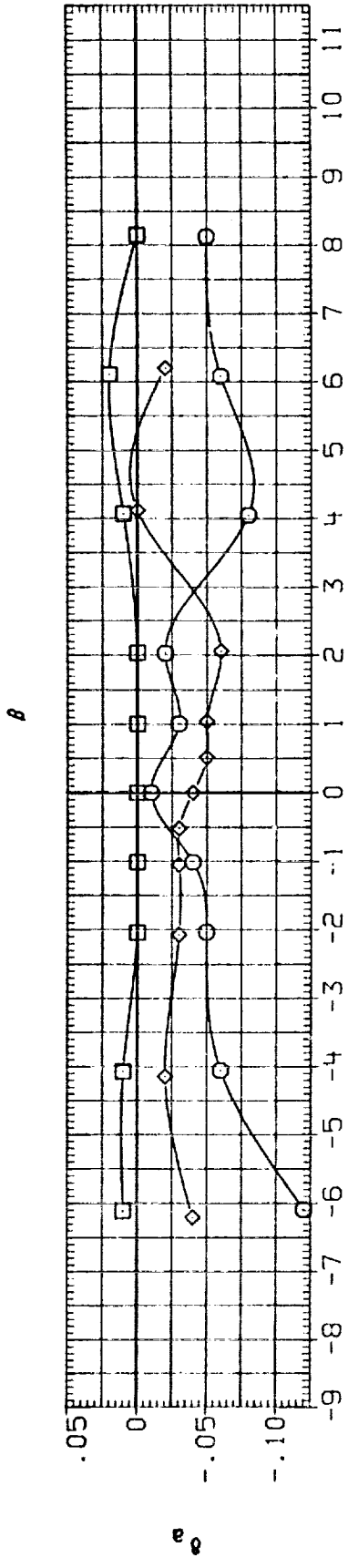
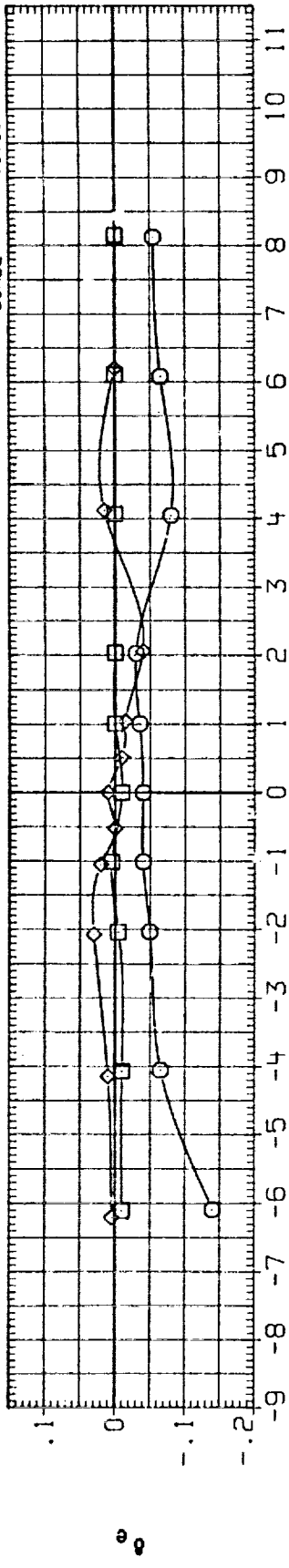


FIG. 08 EFFECT OF REYNOLDS NUMBER IN: YAW, ALPHA = 13

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AIRLON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|--------|--------|-----------------------|
| (RUK081) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 3.500 | 15.000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK082) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK083) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | 15.000 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE 0.150 |

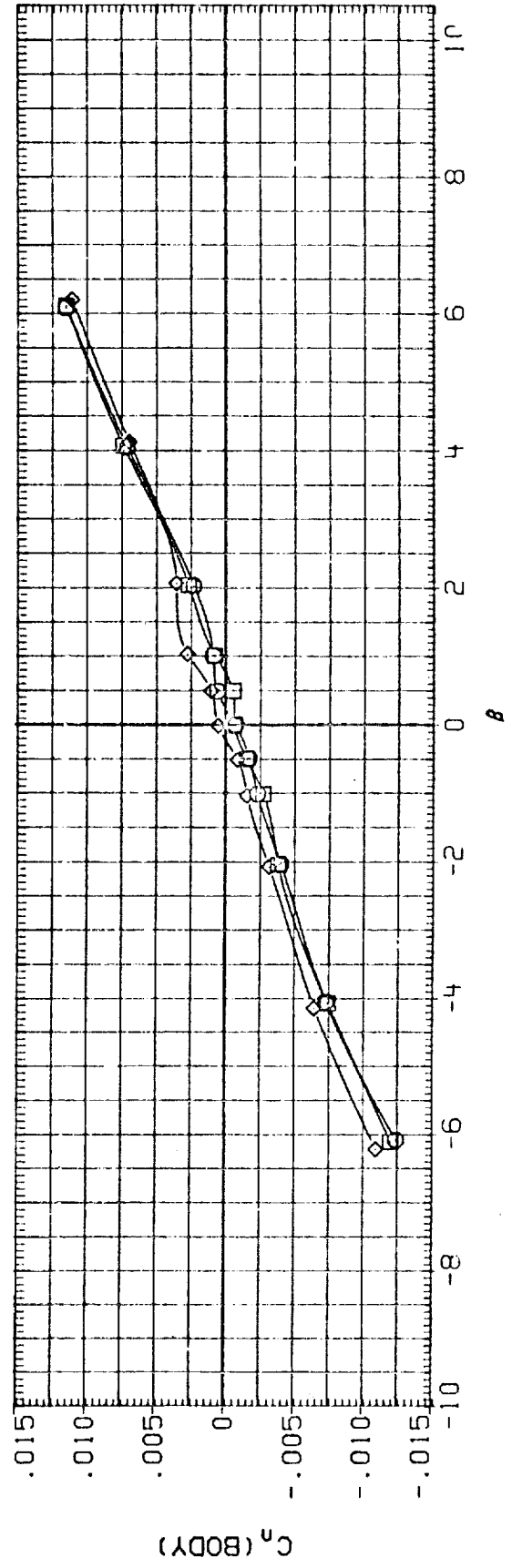
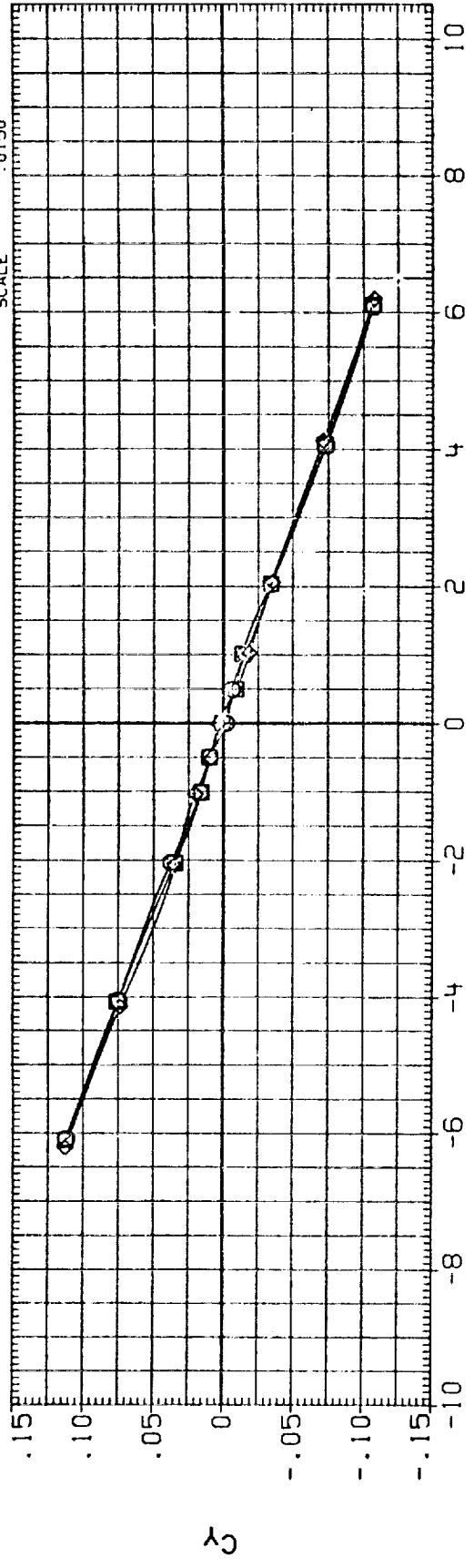


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

(A) MACH = .50

DATA SET SYMBOL

CONFIGURATION DESCRIPTION

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RV/L

ALPHA

ELEVON

ATLIRON

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

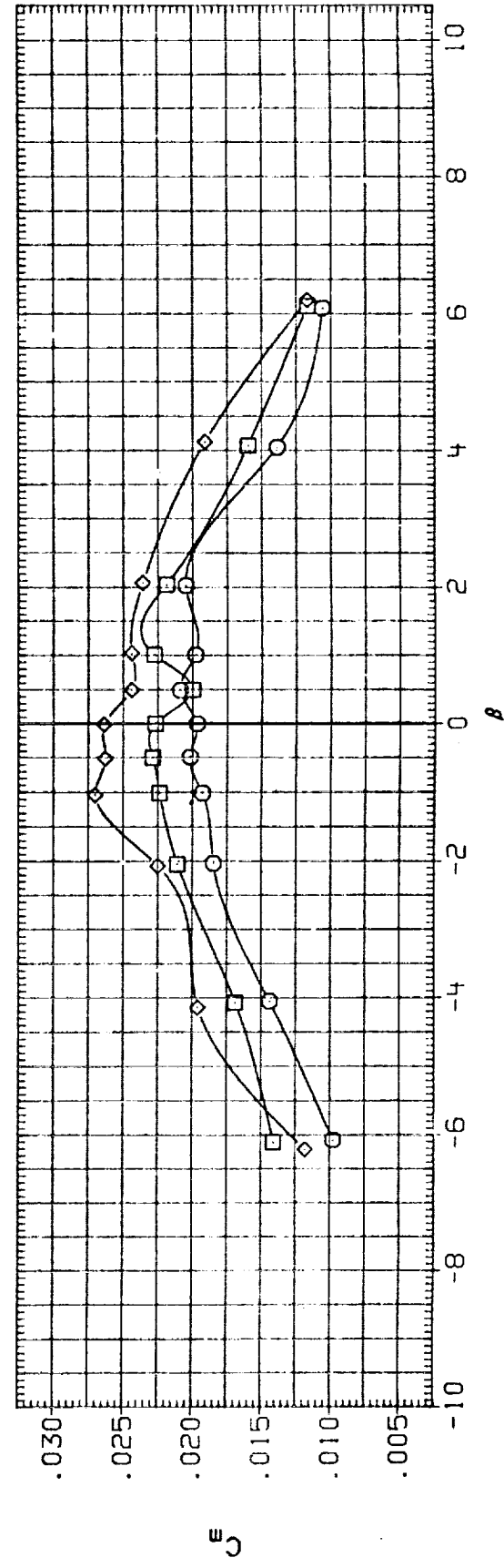
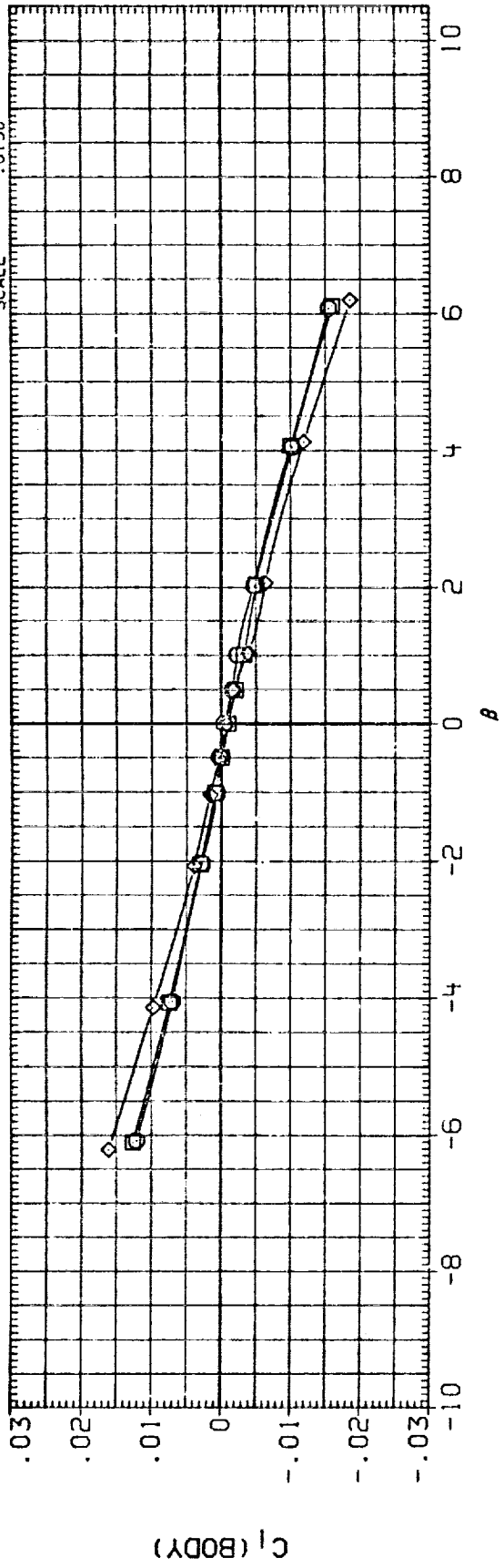


FIG. 08 EFFECT OF REYNOLDS NUMBER II: YAW, ALPHA = 13

(A) MACH = .60

| | | | | | | |
|-----------------|--|-------|--------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AIRLON | REFERENCE INFORMATION |
| (RUK081) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 3.500 | 15.000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK082) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 15.000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK083) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 8.000 | 15.000 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

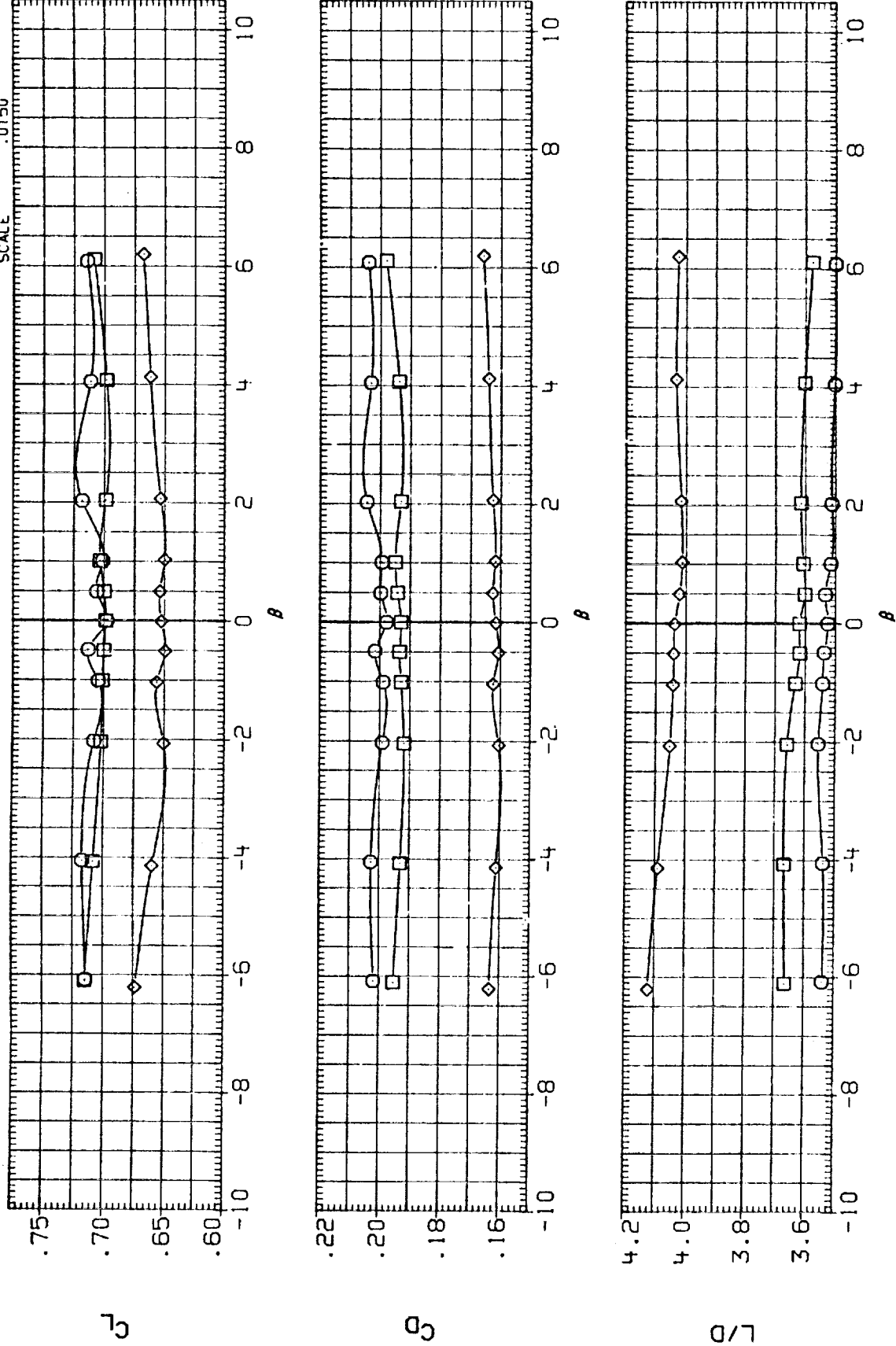


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

(A)MACH = .60

| | | | | | | |
|-----------------|--|-------|--------|--------|---------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AIL/ROU | REFERENCE INFORMATION |
| (CUK081) | LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON) | 3.500 | 15.000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK082) | LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK083) | LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON) | 8.000 | 15.000 | .000 | .000 | BRFF 936.6800 INCHES |
| | | | | | | YMRP 1076.7000 IN. XO |
| | | | | | | ZMRP .0000 IN. YO |
| | | | | | | SCALE 375.0000 IN. ZO |
| | | | | | | .0150 |

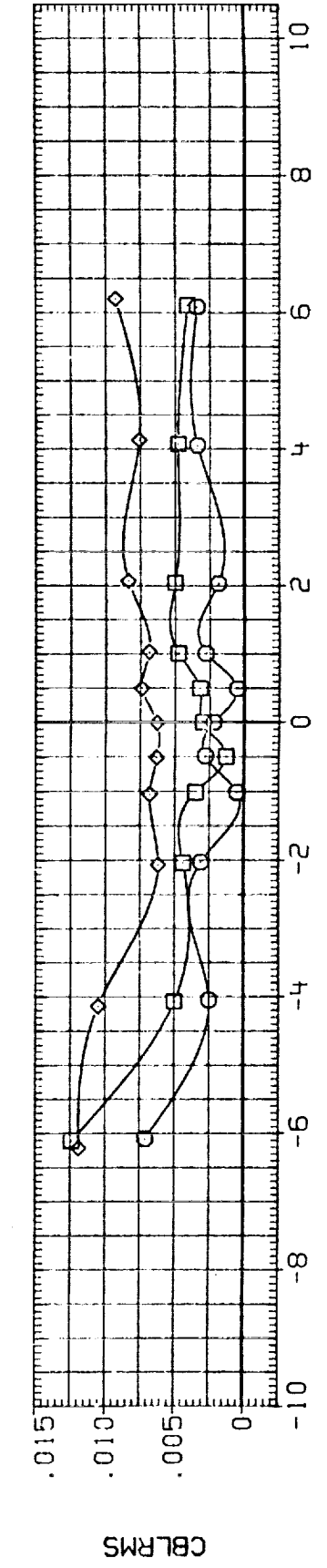
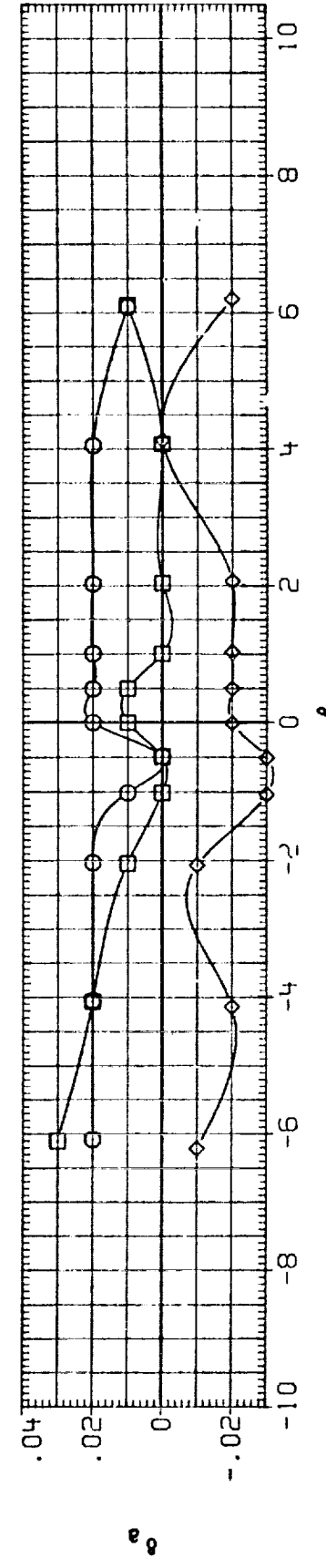
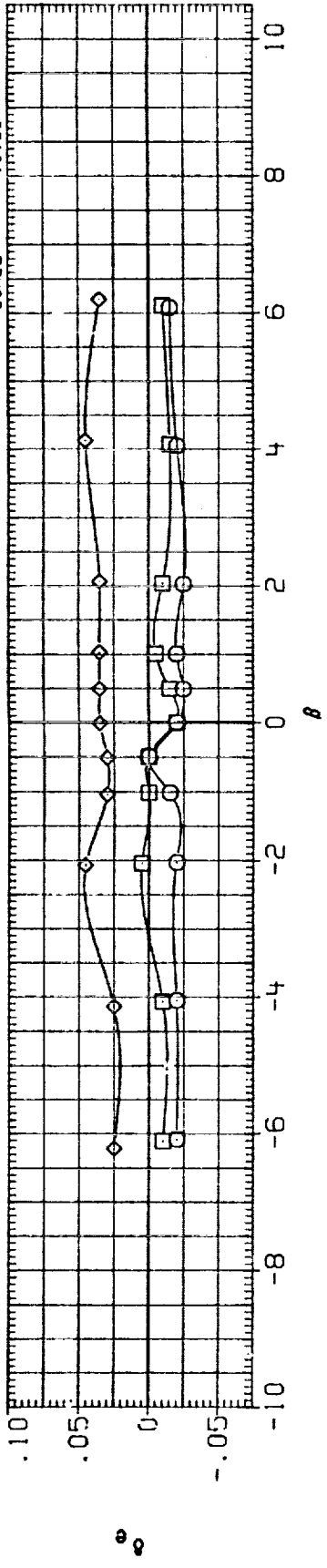


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK081) DATA NOT AVAILABLE
 (RUK082) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK083) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA ELEVON AIRLON

3.500 15.000 .000 .000
 4.500 15.000 .000 .000
 8.000 15.000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

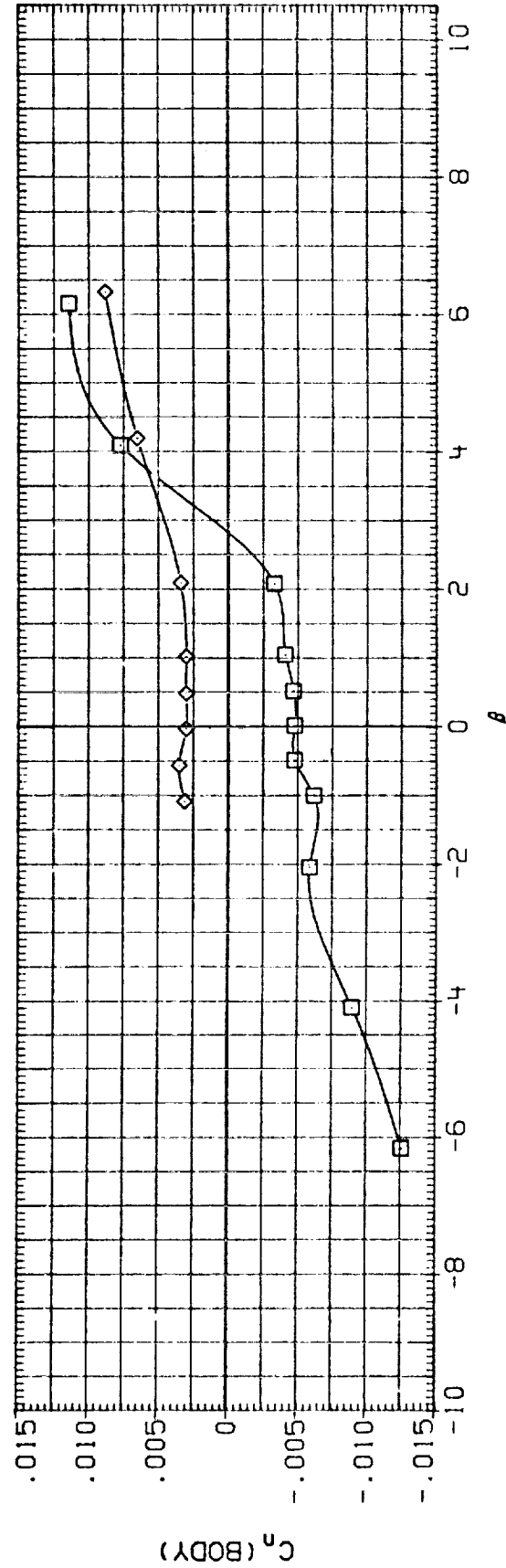
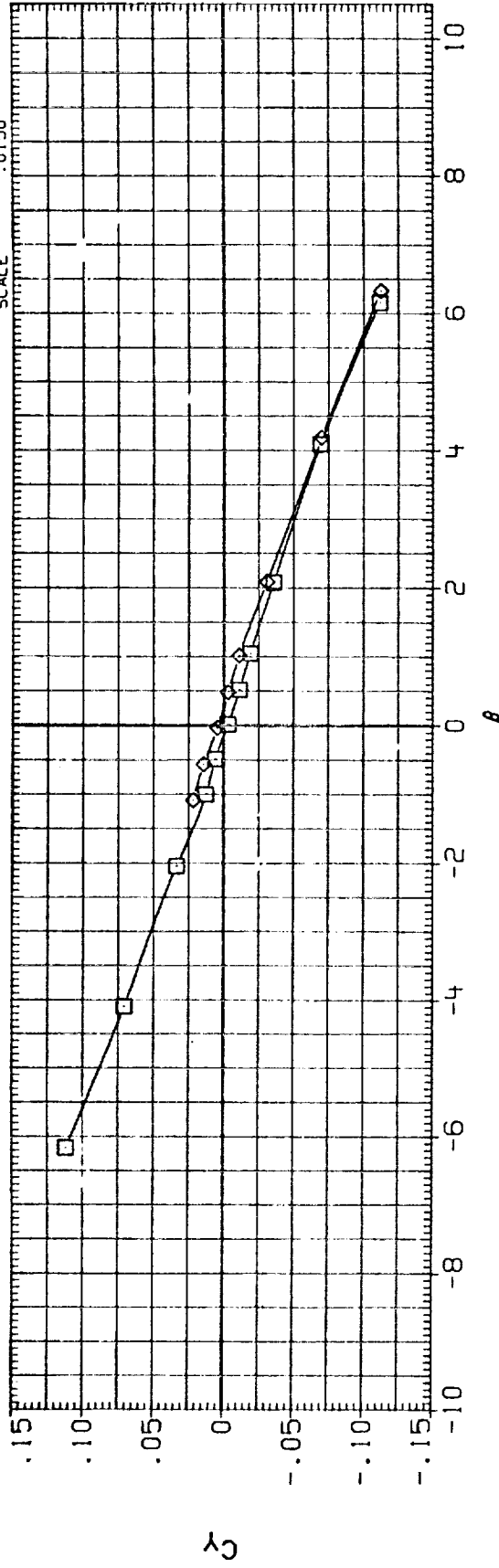


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK081) DATA NOT AVAILABLE
 (RUK082) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK083) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA ELEVON AIRLON
 3.500 15.000 .000 .000
 4.500 15.000 .000 .000
 8.000 15.000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

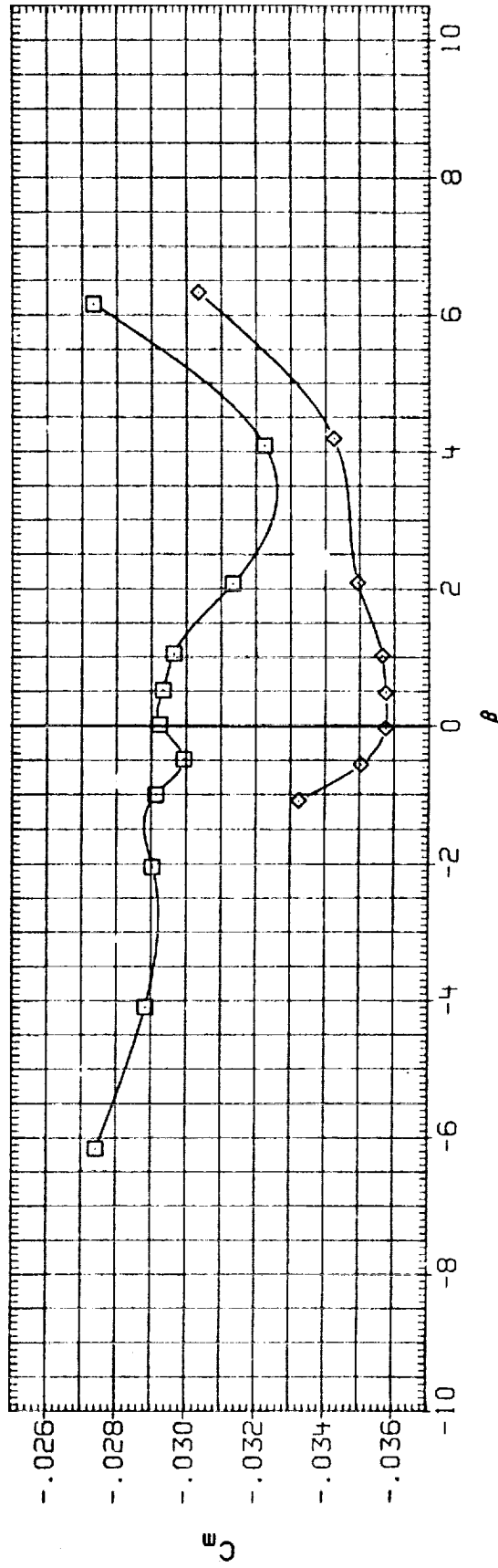
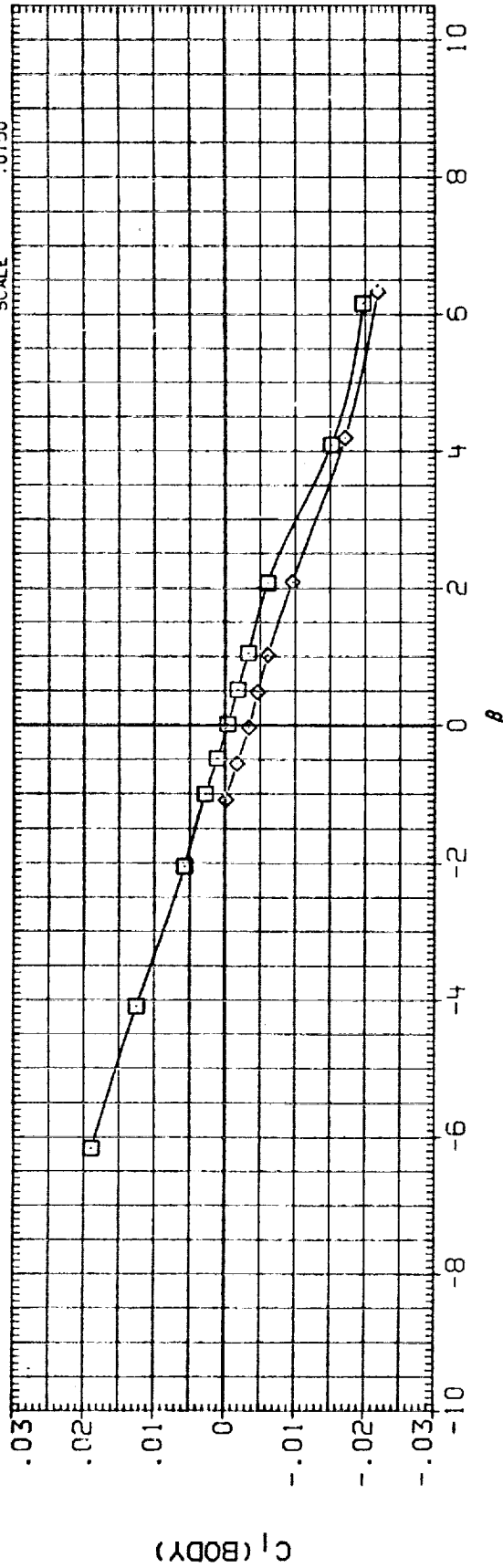


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

(A) MACH = .95

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|--------|--------|-----------------------|
| (RUK081) | DATA NOT AVAILABLE | 3.500 | 15.000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK082) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK083) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | 15.000 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

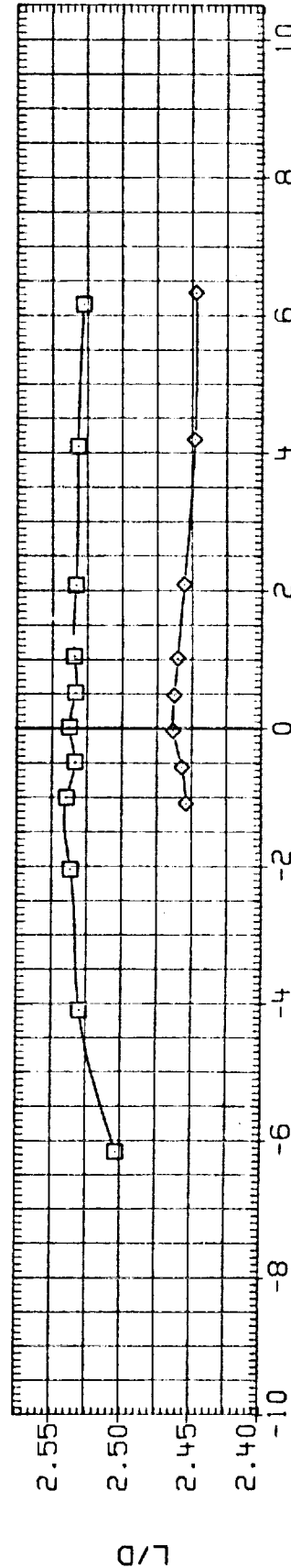
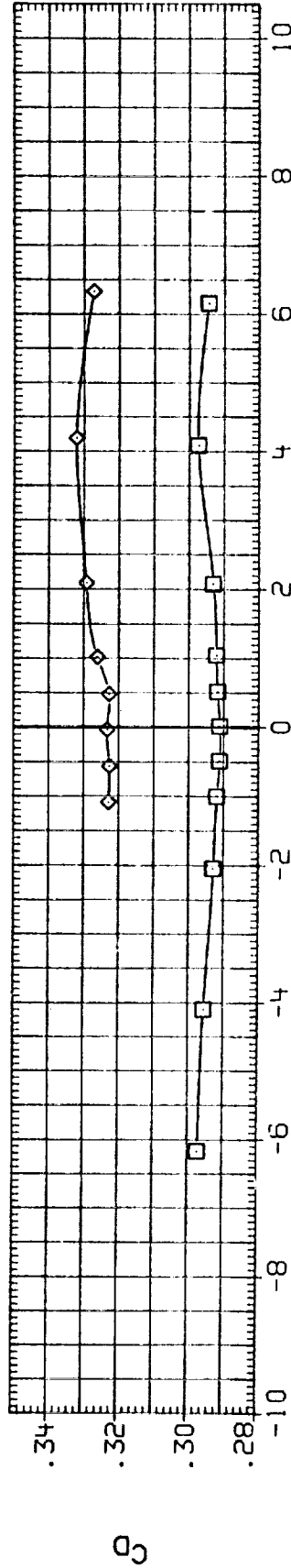
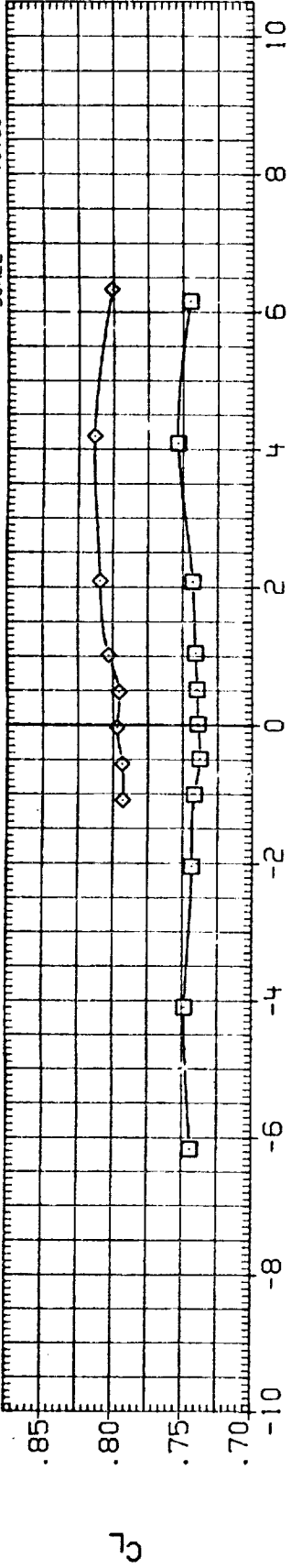


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK081) DATA NOT AVAILABLE
 (CUK082) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)
 (CUK083) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

RN/L ALPHA ELEVON AIRLON

SREF 2690.0000 SO. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

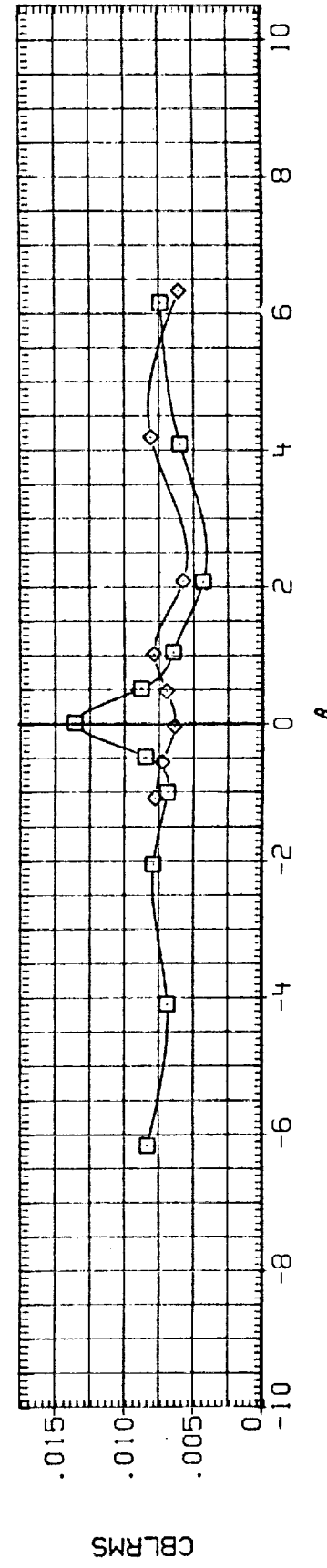
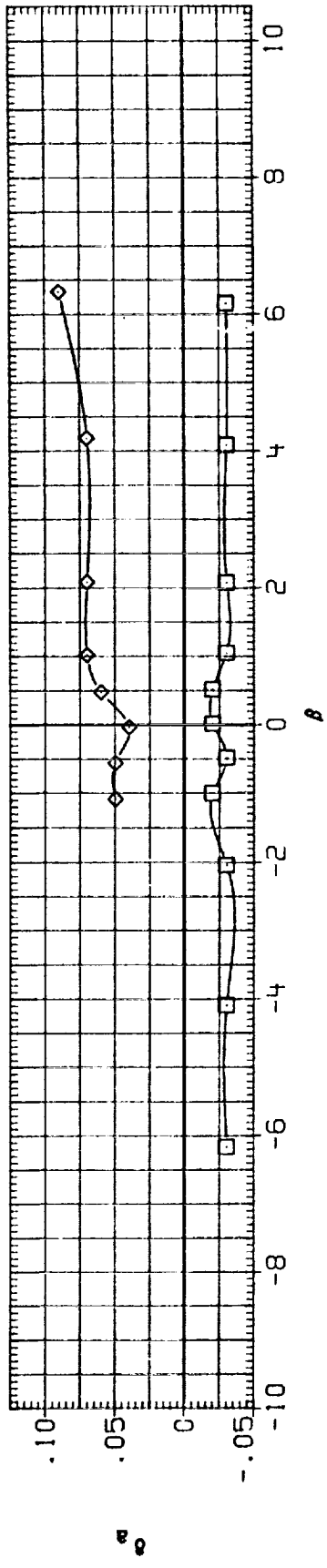
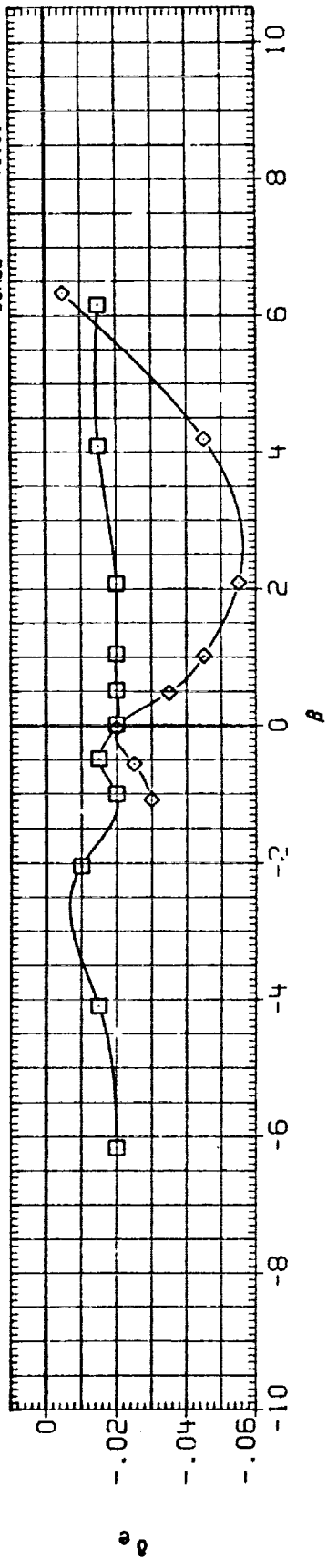


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

(A)MACH = .95

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RV/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|-------|------|--------|-----------------------|
| (RUK012) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 3.500 | .000 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK014) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | X'RP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

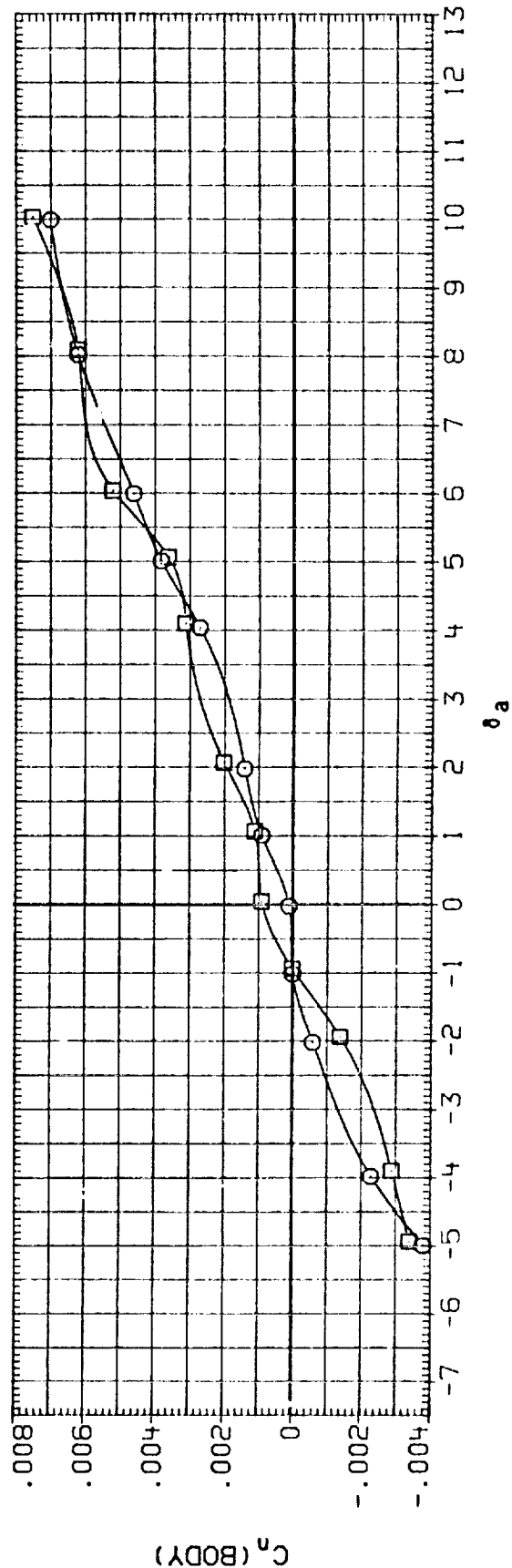
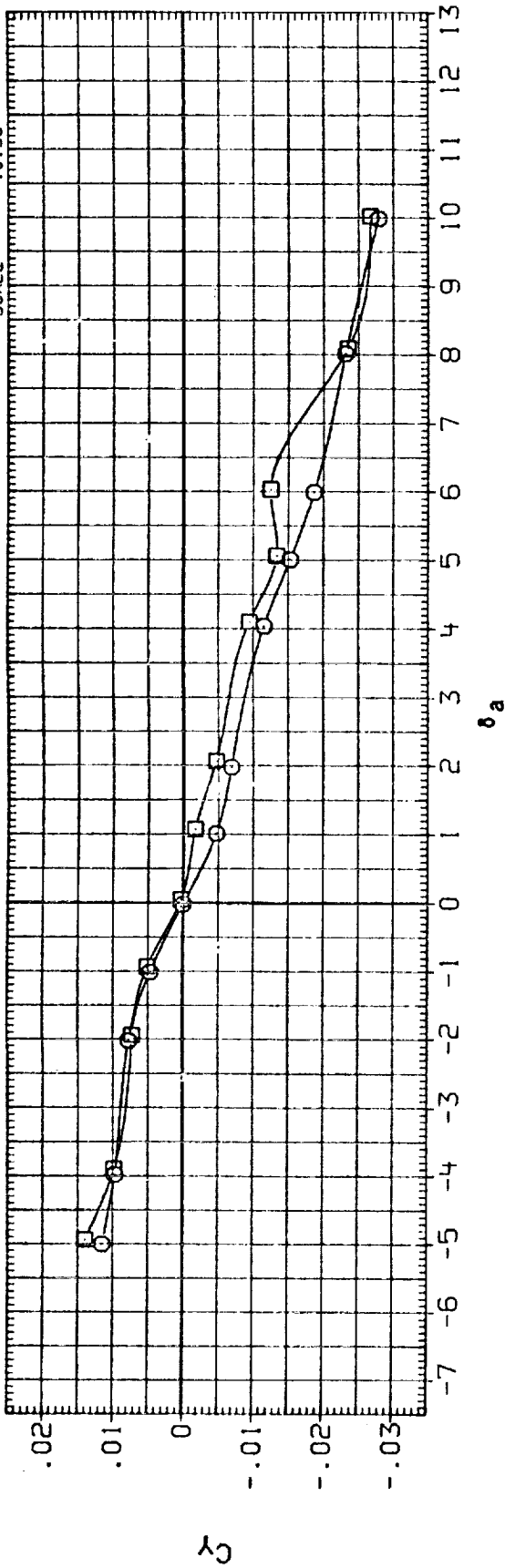


FIG. 09 EFFECT OF REYNOLDS NUMBER WITH AILERON VARYING, ALPHA = 0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK012) LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)
 (RUK014) LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

FN/L ALPHA BETA ELEVON
 3.500 .000 .000 .000
 4.500 .000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

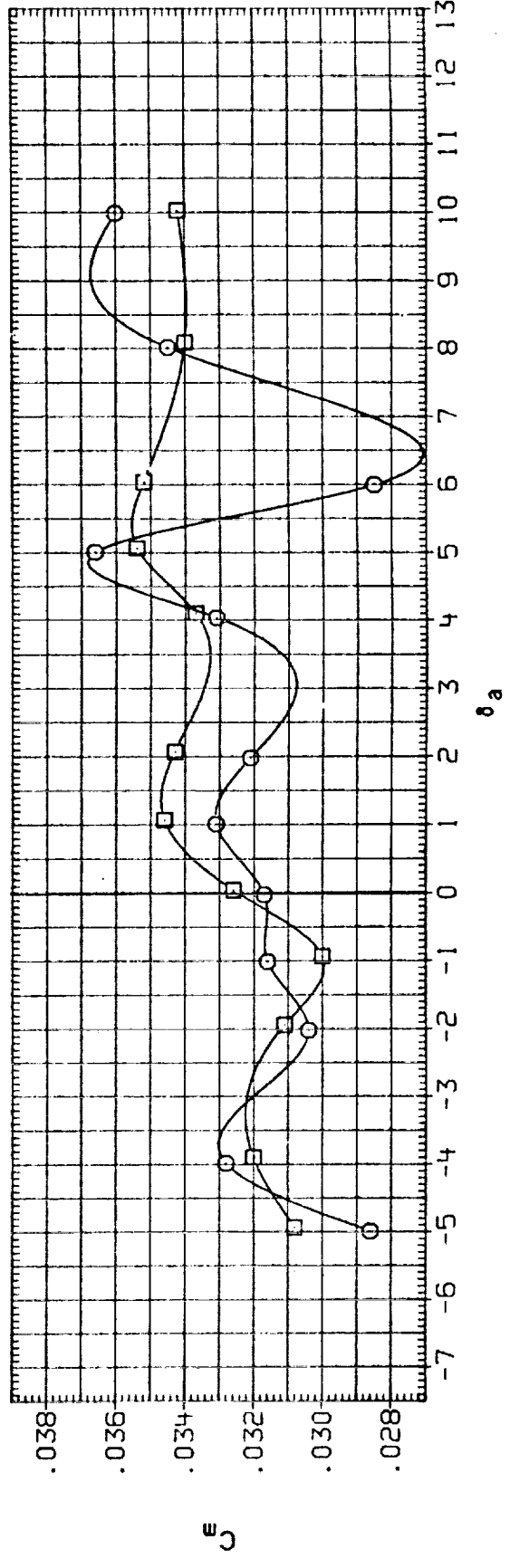
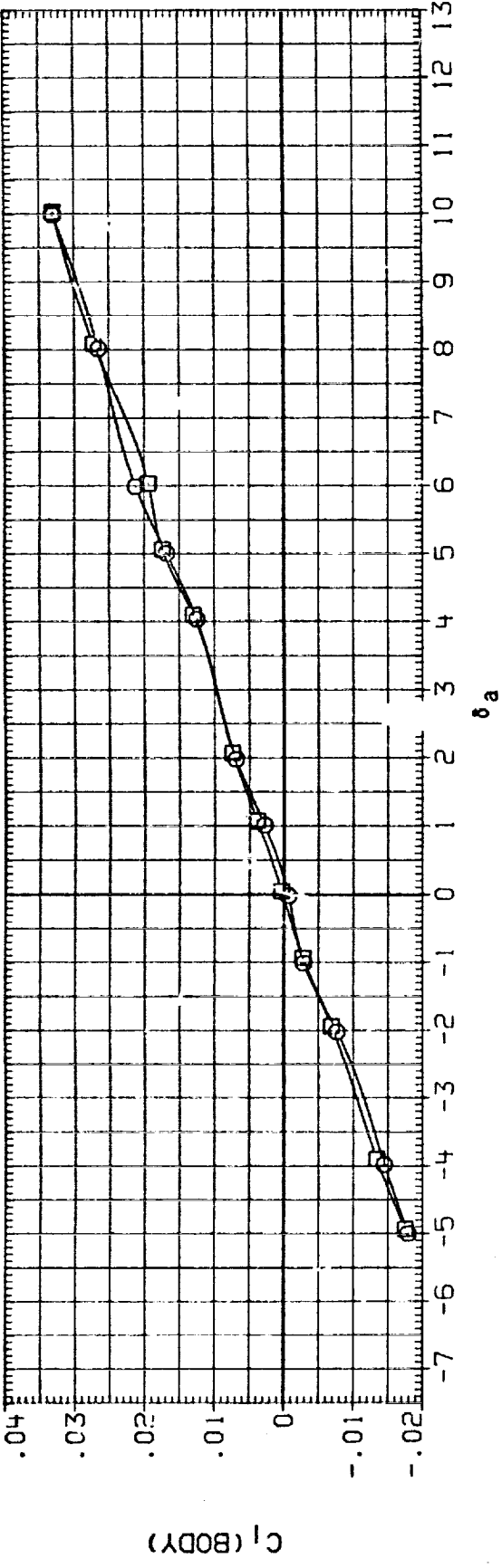


FIG. 09 EFFECT OF REYNOLDS NUMBER WITHAILERON VARYING. ALPHA = 0

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK012) ○ LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)
 (RUK014) □ LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)

RV/L ALPHA BETA ELEVON

SRF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BRPREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

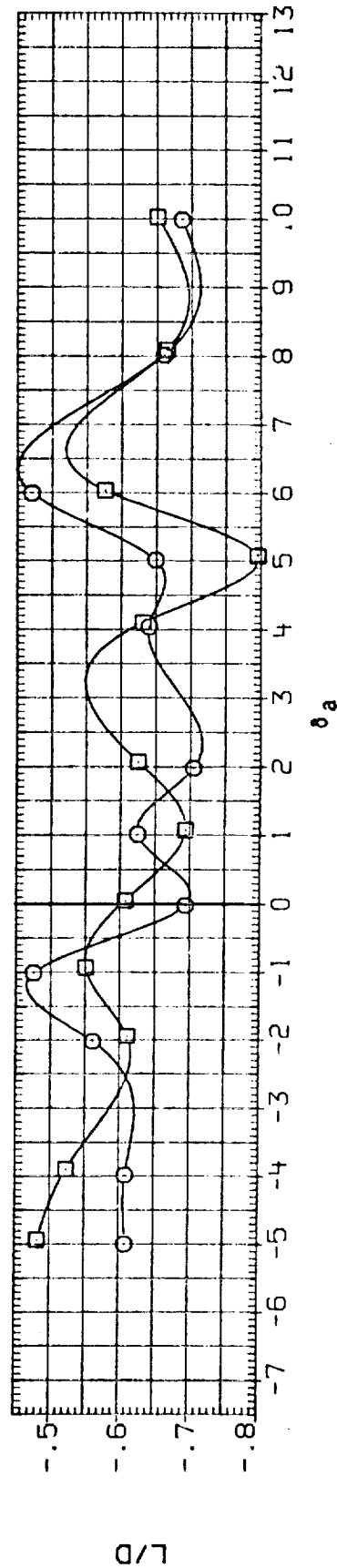
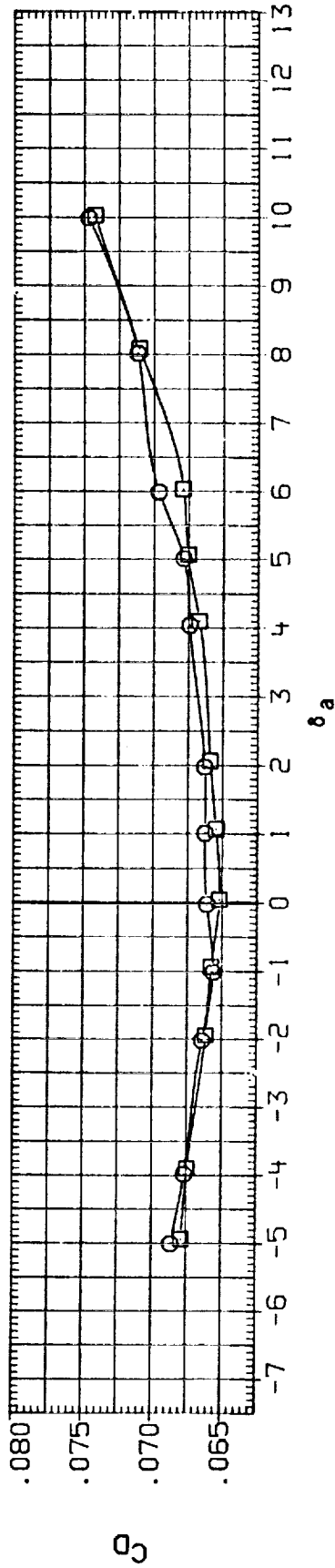
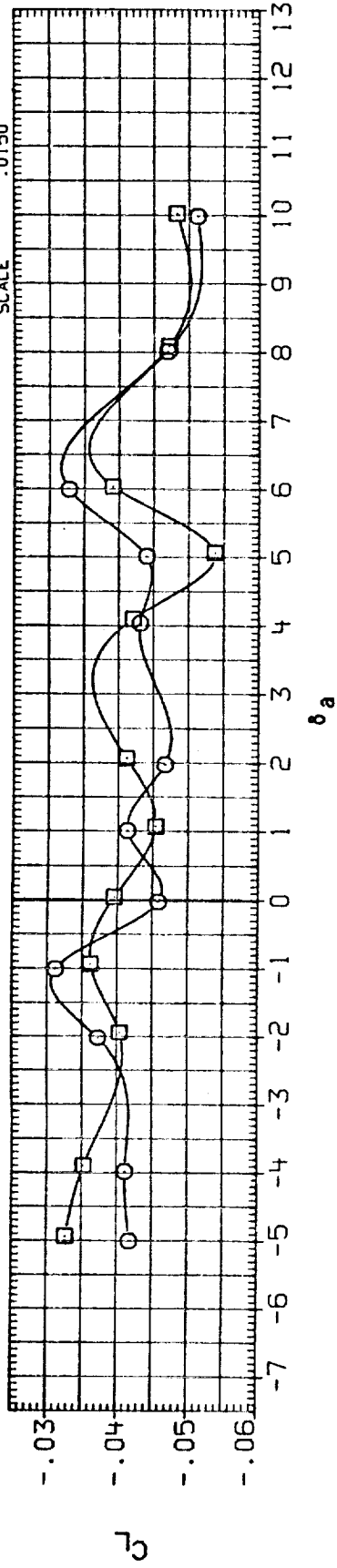


FIG. 09 EFFECT OF REYNOLDS NUMBER WITH AILERON VARYING, ALPHA = 0

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK012) LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)

(CUK014) LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)

RN/L ALPHA BETA ELEVON

3.500 .000 .000 .000

4.500 .000 .000 .000

REFERENCE INFORMATION

SQCF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

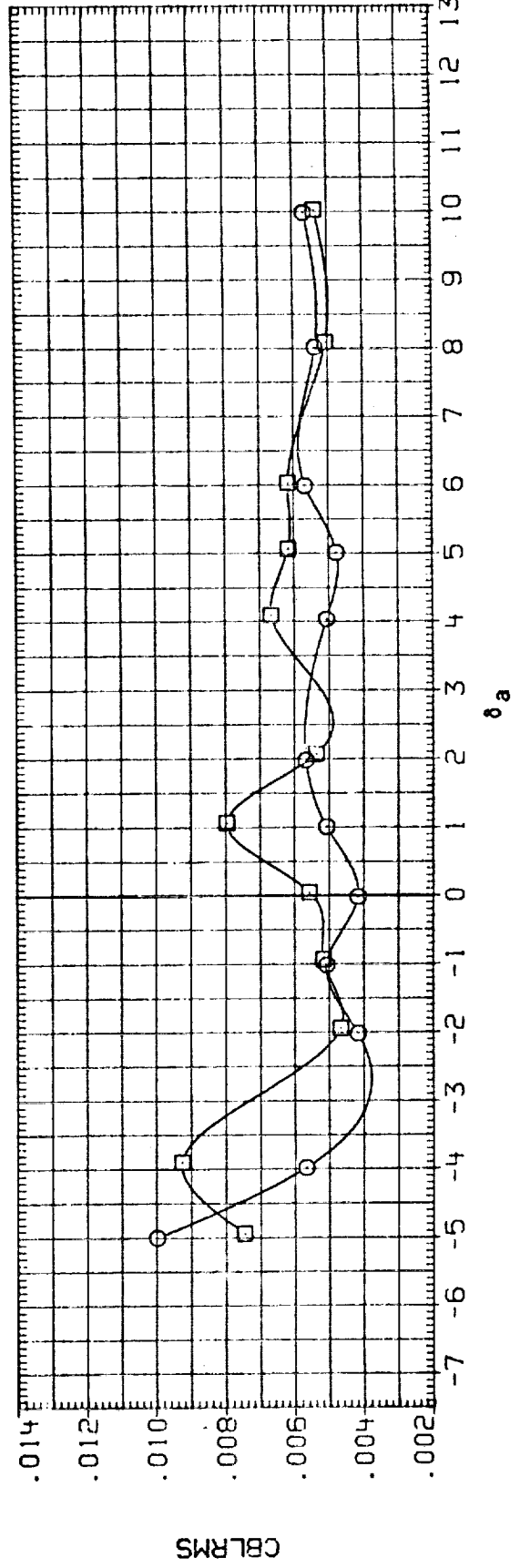
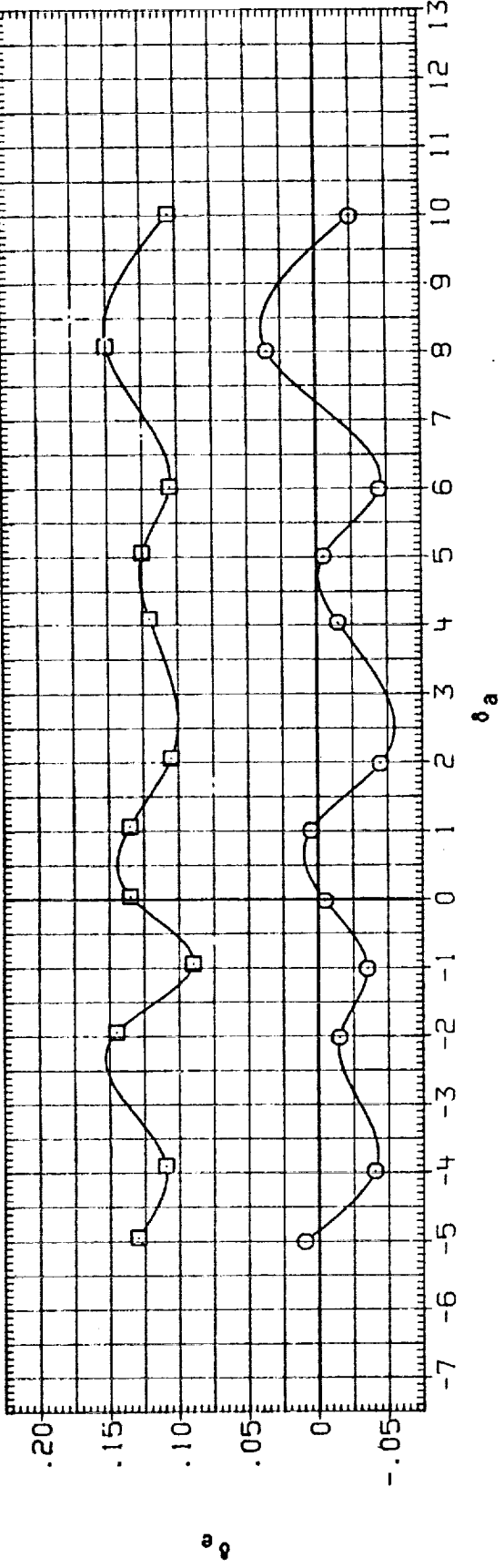


FIG. 09 EFFECT OF REYNOLDS NUMBER WITH AILERON VARYING, ALPHA = 0

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|---|-------|--------|------|--------|-----------------------|
| (RUK013) | ○ | LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON) | 3.500 | 13.000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK015) | ◇ | LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON) | 4.500 | 13.000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK016) | ◇ | LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON) | 8.000 | 13.000 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

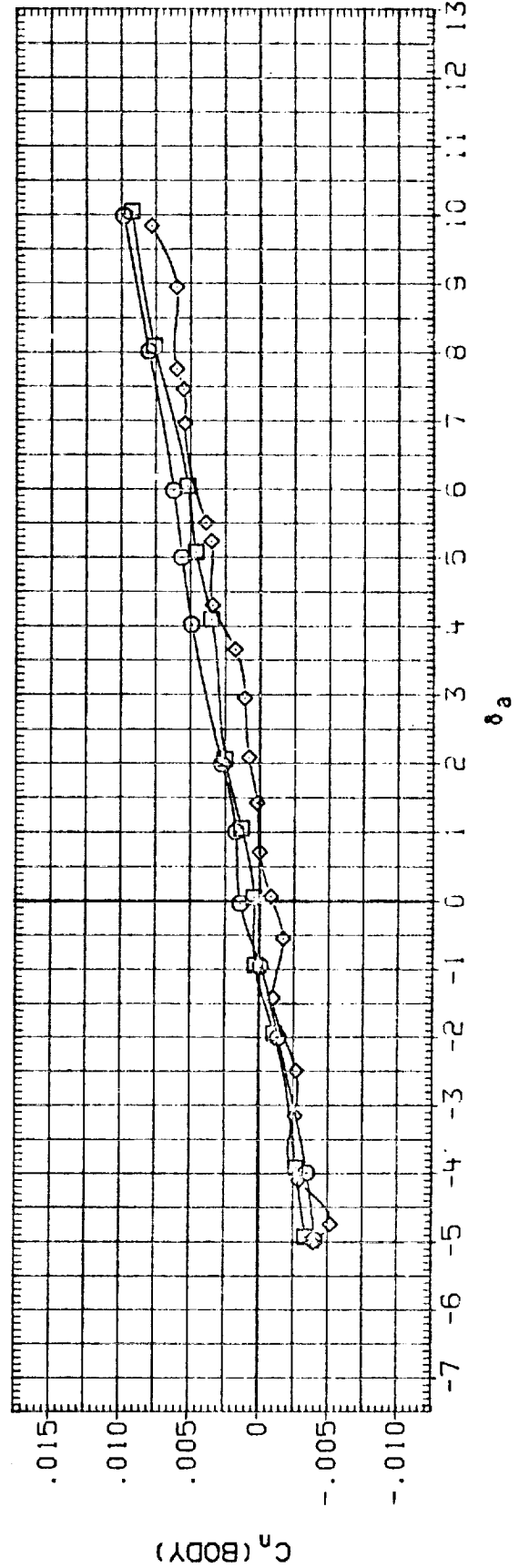
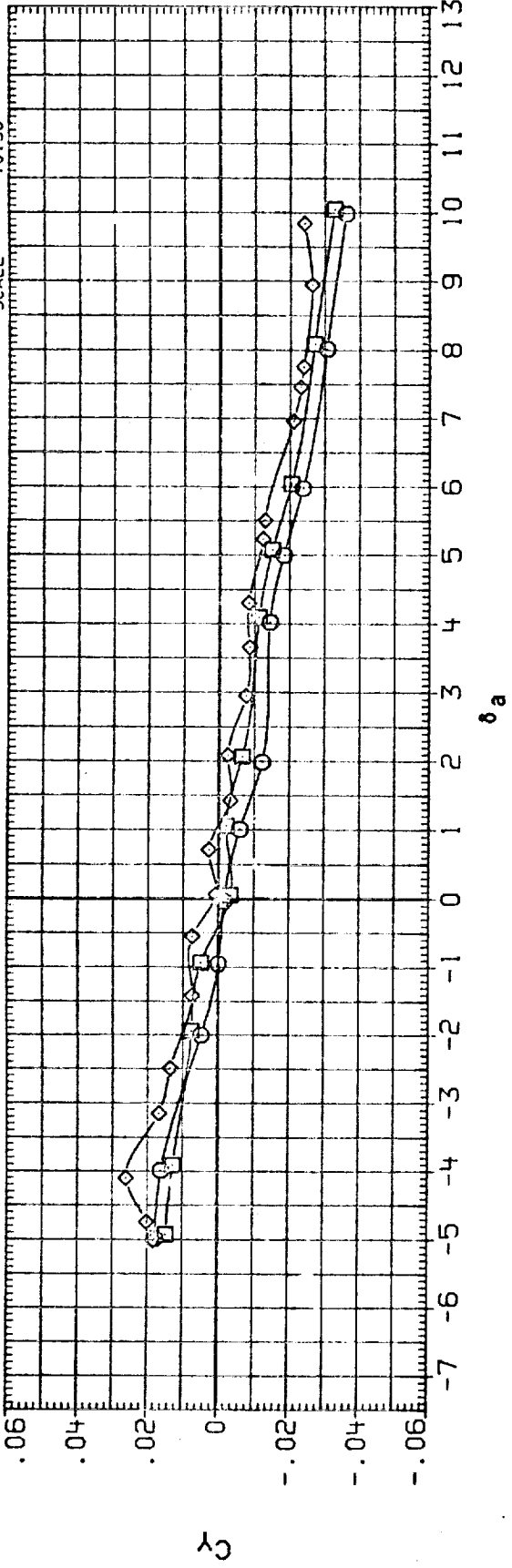


FIG. 10 EFFECT OF REYNOLDS NUMBER WITH AILERON VARYING, ALPHA = 13

| | | | | | | | |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
| (RUK013) | ○ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 3.500 | 13.000 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK015) | □ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 4.500 | 13.000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK016) | ◇ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 8.000 | 13.000 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

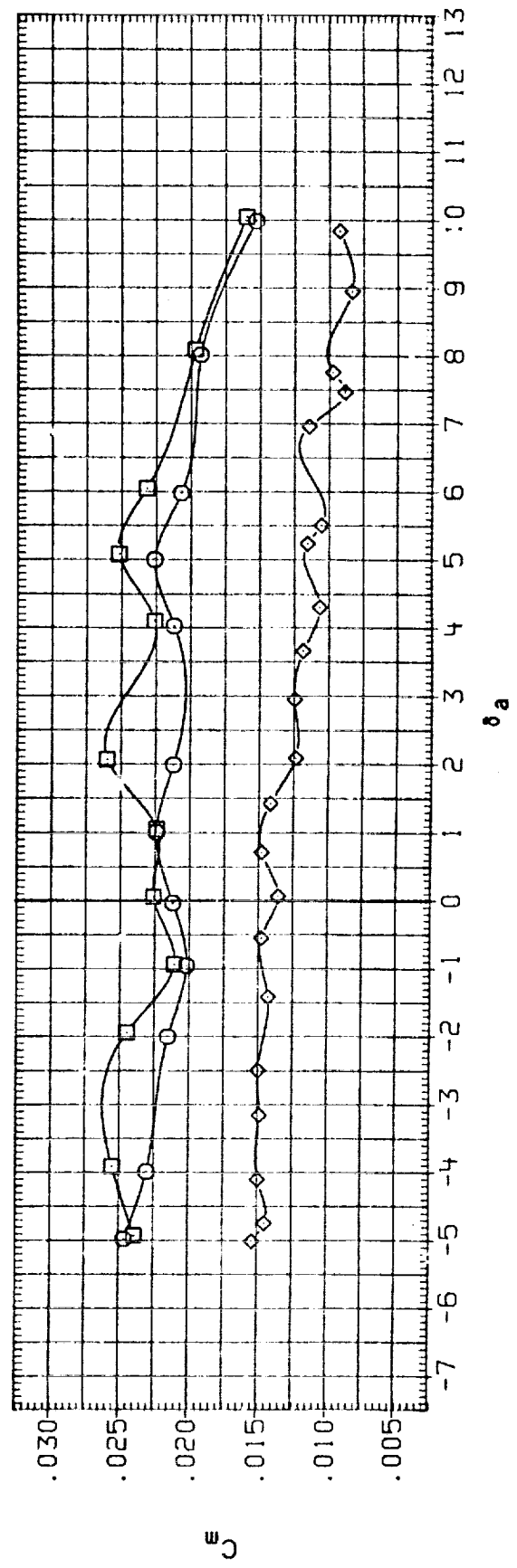
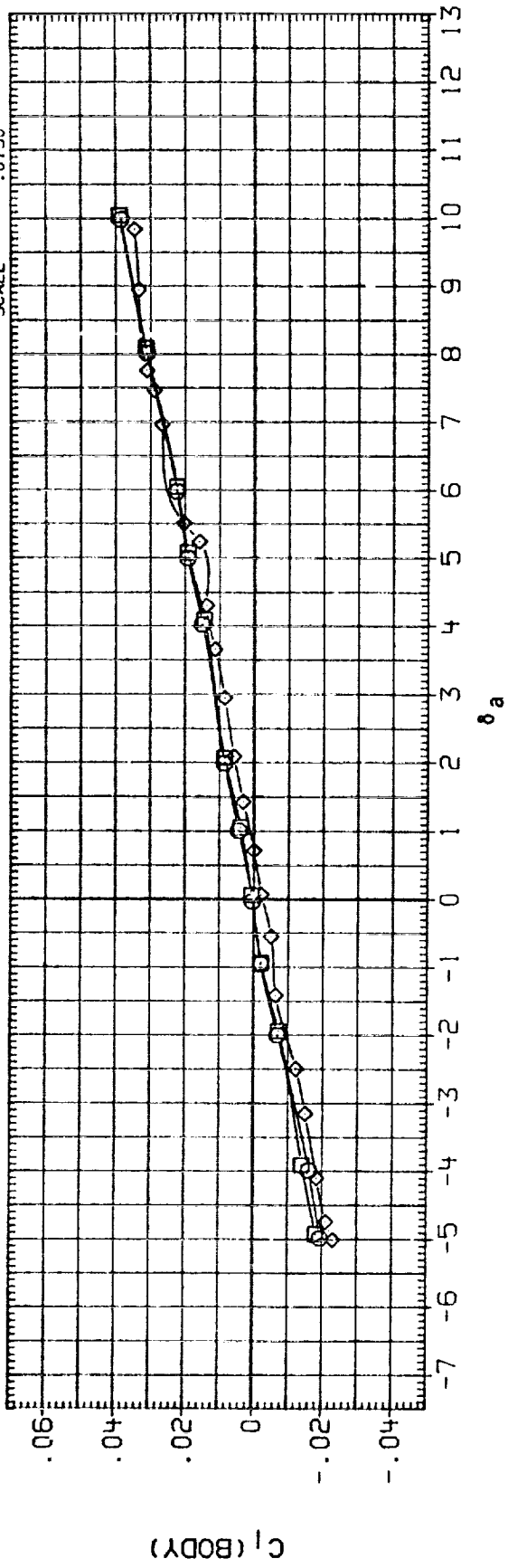


FIG. 10 EFFECT OF REYNOLDS NUMBER WITH AILERON VARYING, ALPHA = 13

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RM/VL | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK013) | ○ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 3.500 | 13.000 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK015) | □ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 4.500 | 13.000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK016) | ◇ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 8.000 | 13.000 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMF 0.0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

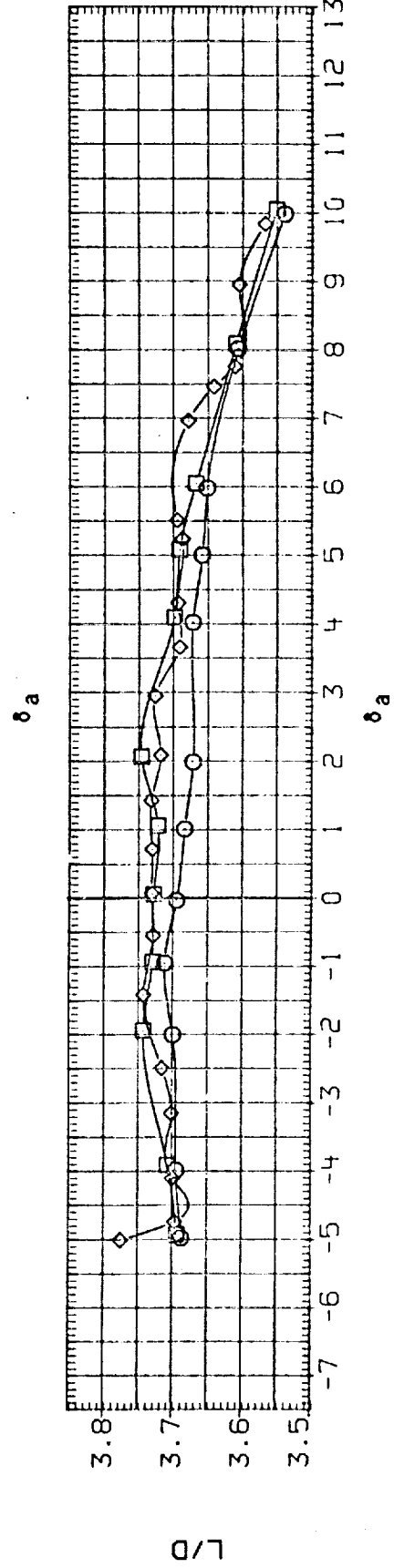
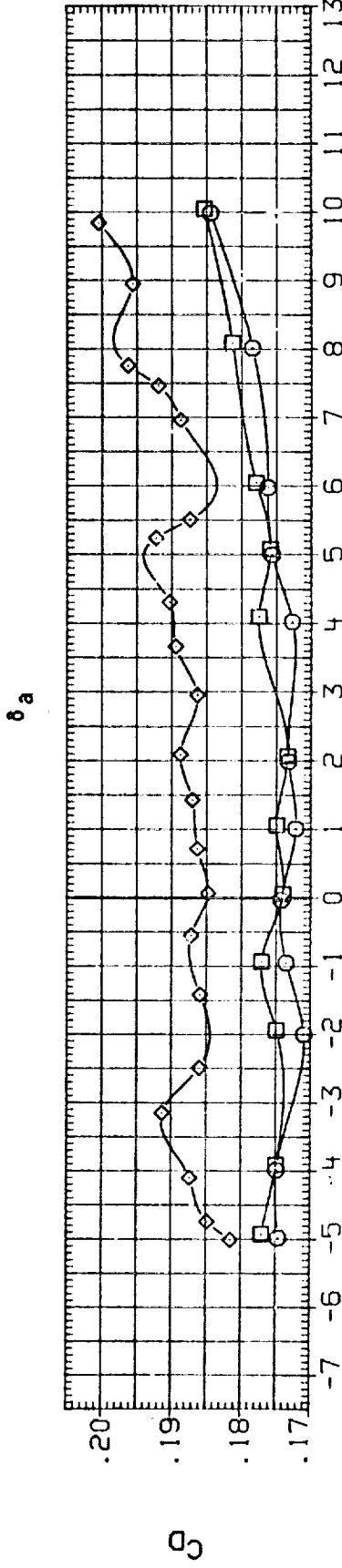
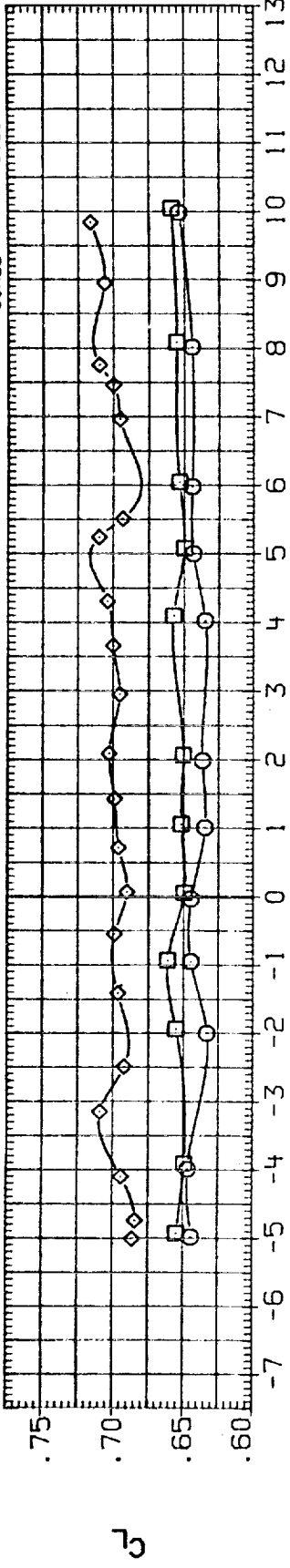


FIG. 10 EFFECT OF REYNOLDS NUMBER WITH AILERON VARYING, ALPHA = 13

(A)MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|--------|-----------------------|
| (CUK013) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 3.500 | 13.000 | .000 | .000 | SREF 2690.0000 50.FT. |
| (CUK015) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 4.500 | 13.000 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK016) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 8.000 | 13.000 | .000 | .000 | BREF 936.6600 INCHES |
| | | | | | | XHRP 1076.7000 IN. XO |
| | | | | | | YHRP .0000 IN. YO |
| | | | | | | ZHRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

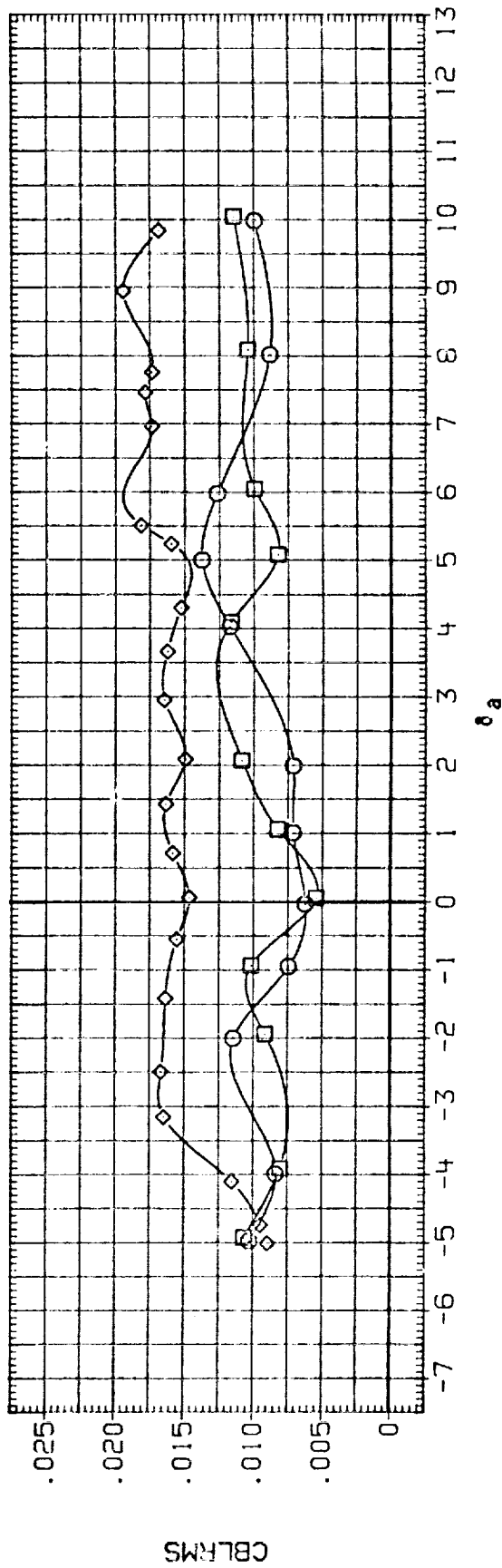
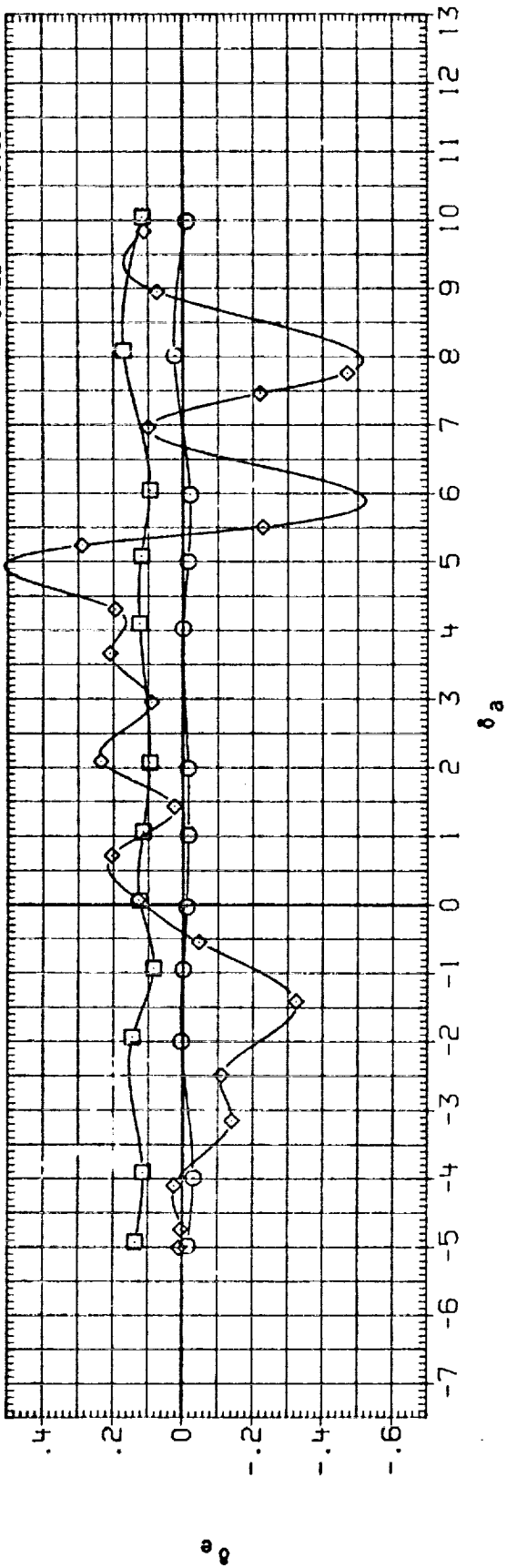


FIG. 10 EFFECT OF REYNOLDS NUMBER WITH AILERON VARYING, ALPHA = 13

(A) MACH = .60

DATA SET SYMBOL
 (AUK016) ○
 (AUK017) □

CONFIGURATION DESCRIPTION
 LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)
 LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

MODE
 1.000
 2.000

RN/L
 8.000
 8.000

ALPHA
 13.000
 13.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

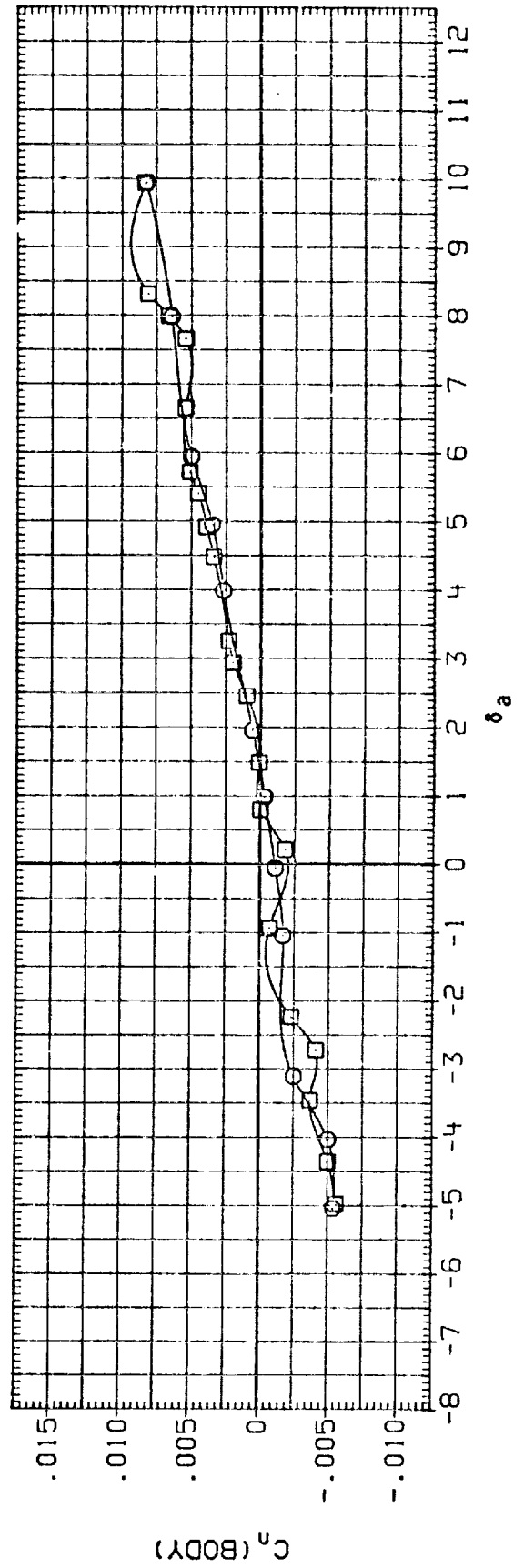
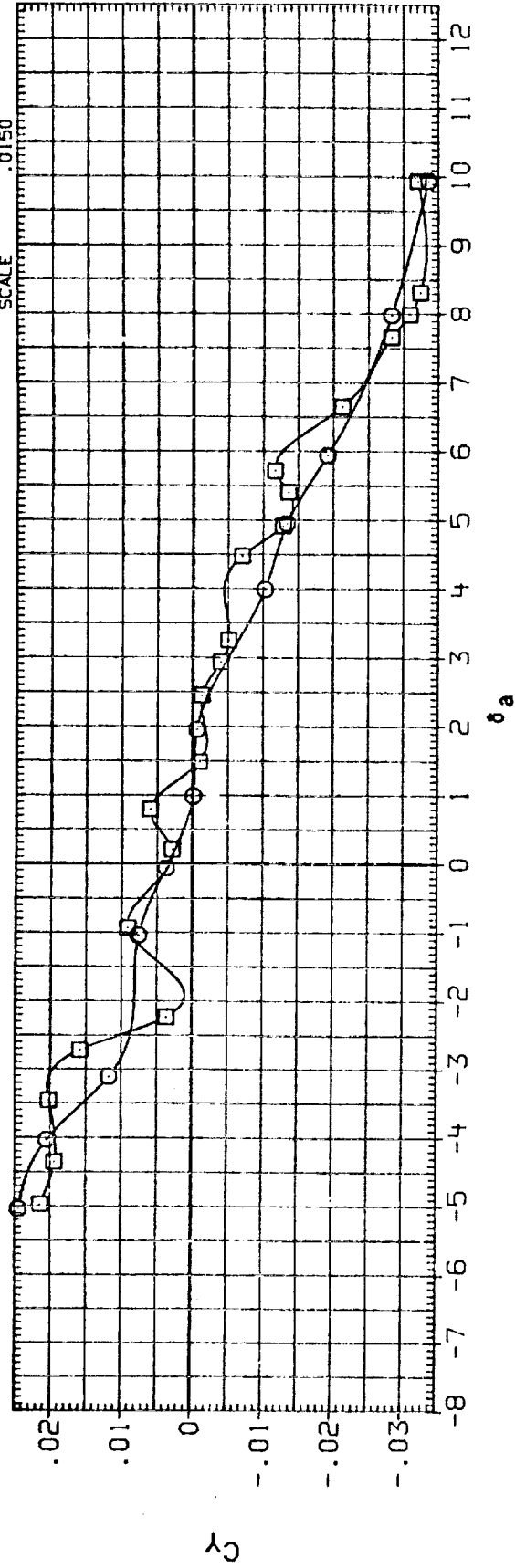


FIG. 11 EFFECT OF PAUSE(1) VS. SWEEP(2) MODE OF AILERON DEFLECTION

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | MODE | RN/L | ALPHA | REFERENCE INFORMATION |
|----------|--------|--|-------|-------|--------|-----------------------|
| (AUK016) | ○ | LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON) | 1.000 | 8.000 | 13.000 | SREF 2690.0000 50.FT. |
| (AUK017) | □ | LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON) | 2.000 | 8.000 | 13.000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

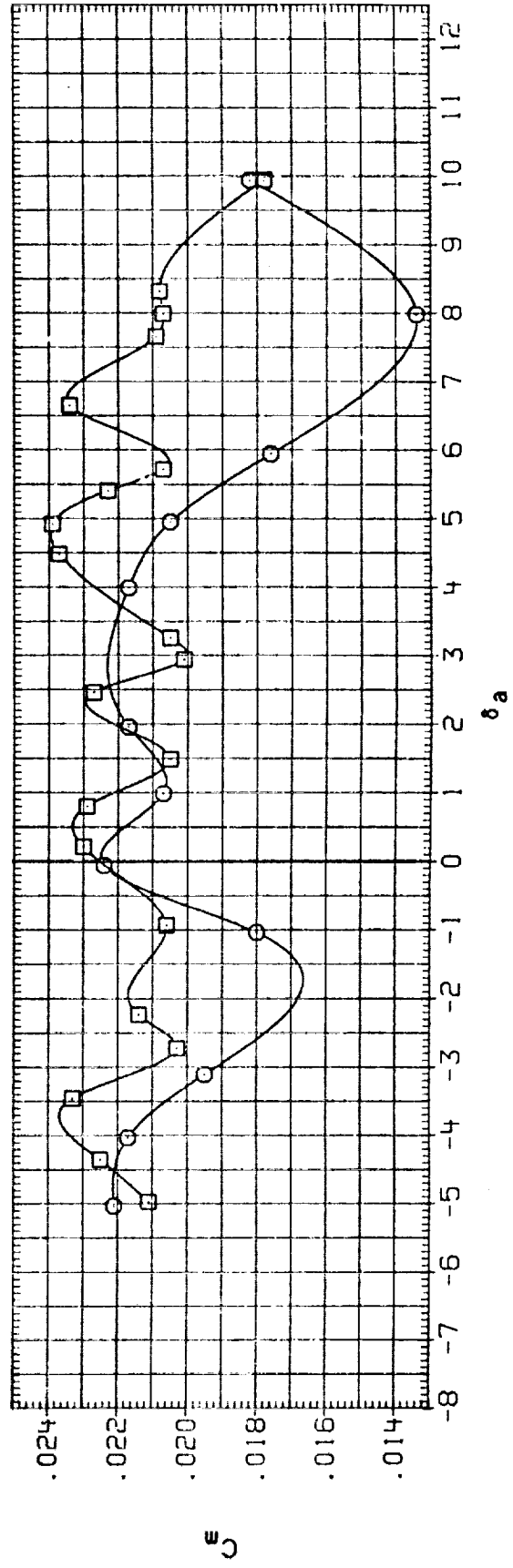
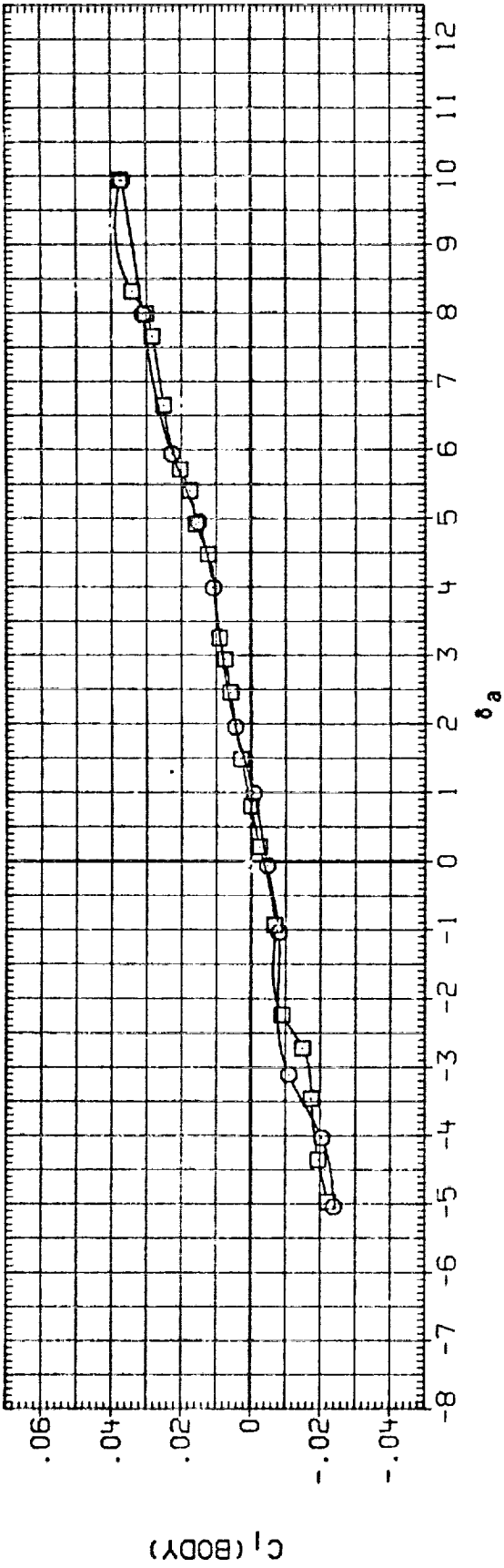


FIG. 11 EFFECT OF PAUSE(1) VS. SWEEP(2) MODE OFAILERON DEFLECTION

(A)MACH = .50

DATA SET SYMBOL

(AUK016)
(AUK017)

CONFIGURATION DESCRIPTION

LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)
LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

MODE

1.000
2.000

RN/L

8.000
8.000

ALPHA

13.000
13.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8000 INCHES
BREF 936.6800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

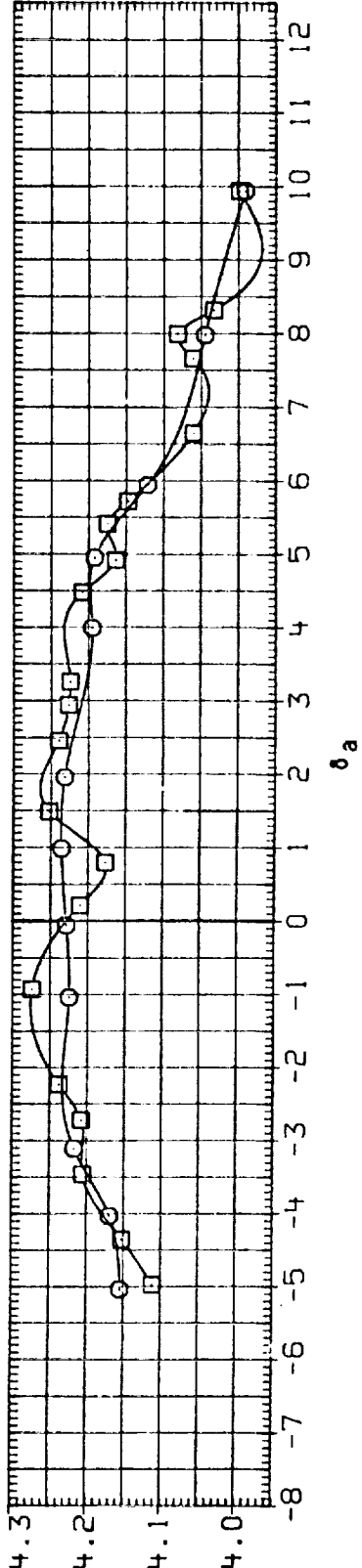
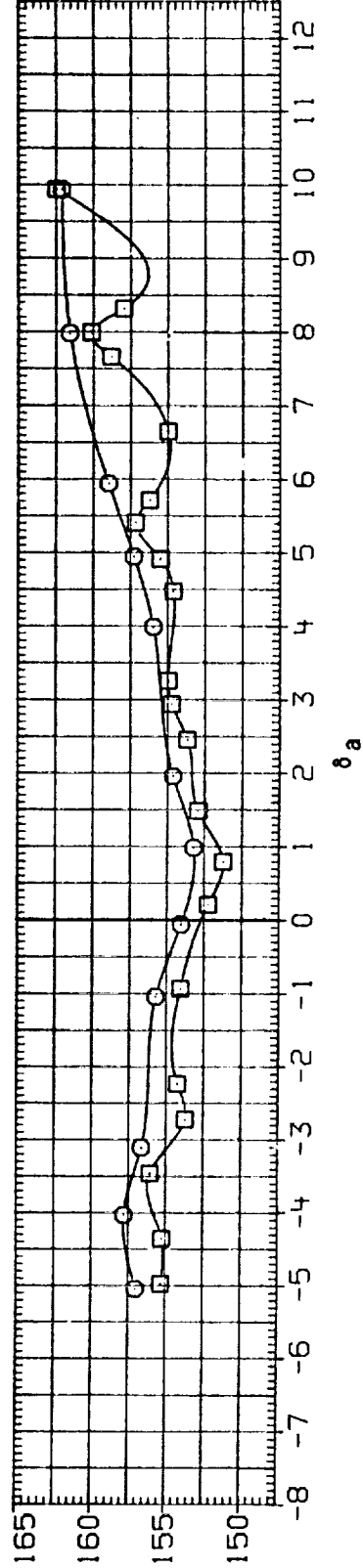
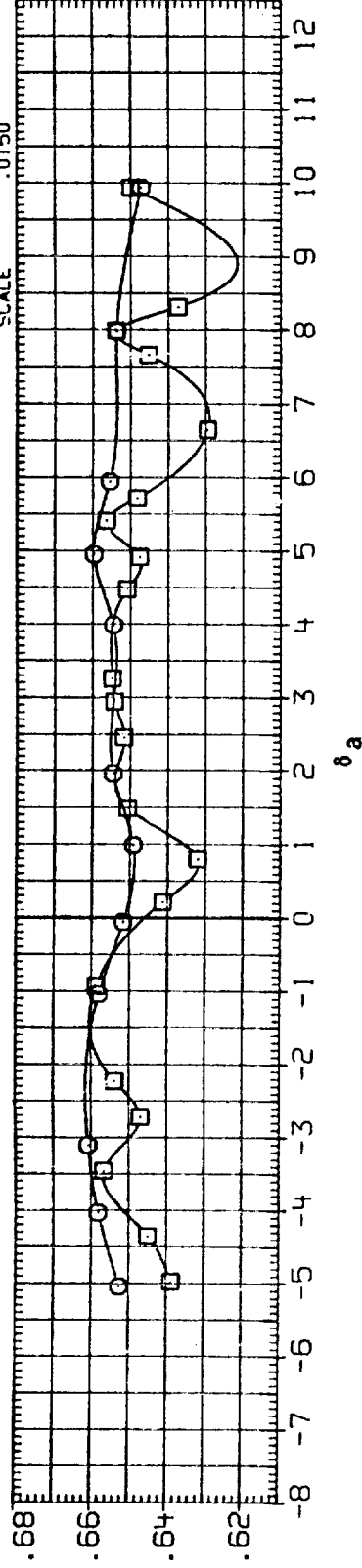


FIG. 11 EFFECT OF PAUSE(1) VS. SWEEP(2) MODE OF AILERON DEFLECTION

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (BUK016) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (BUK017) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

MODE RN/L ALPHA
 1.000 8.000 13.000
 2.000 8.070 13.000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

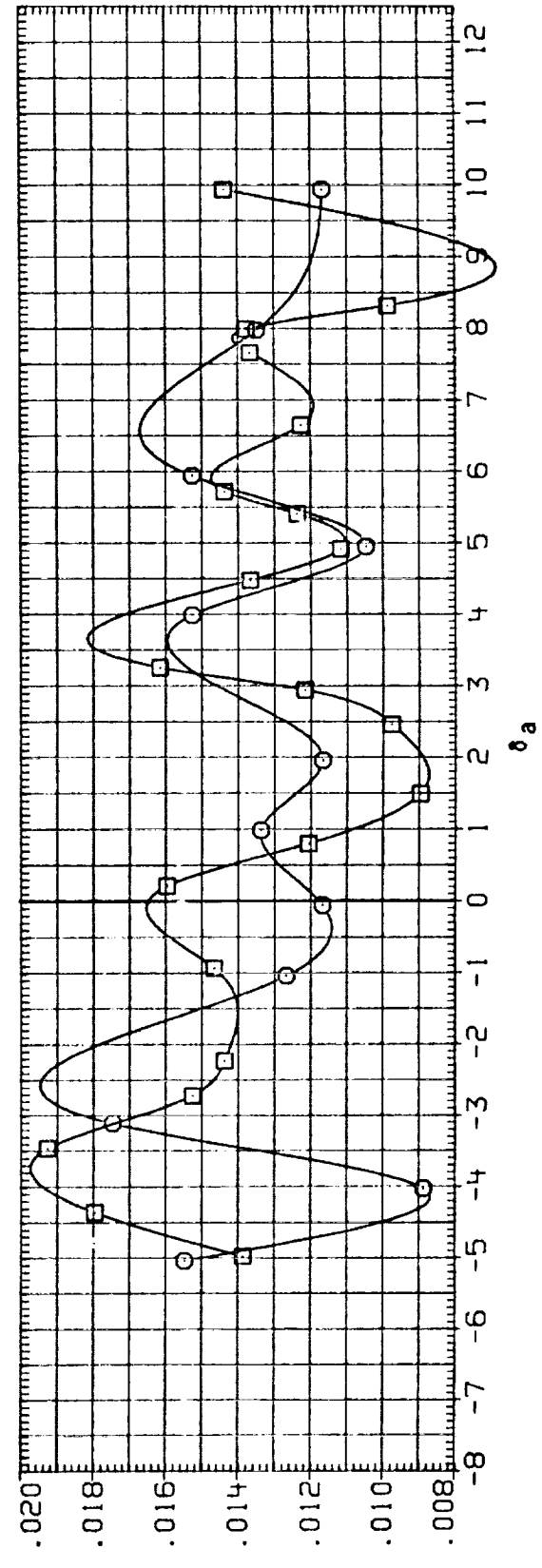
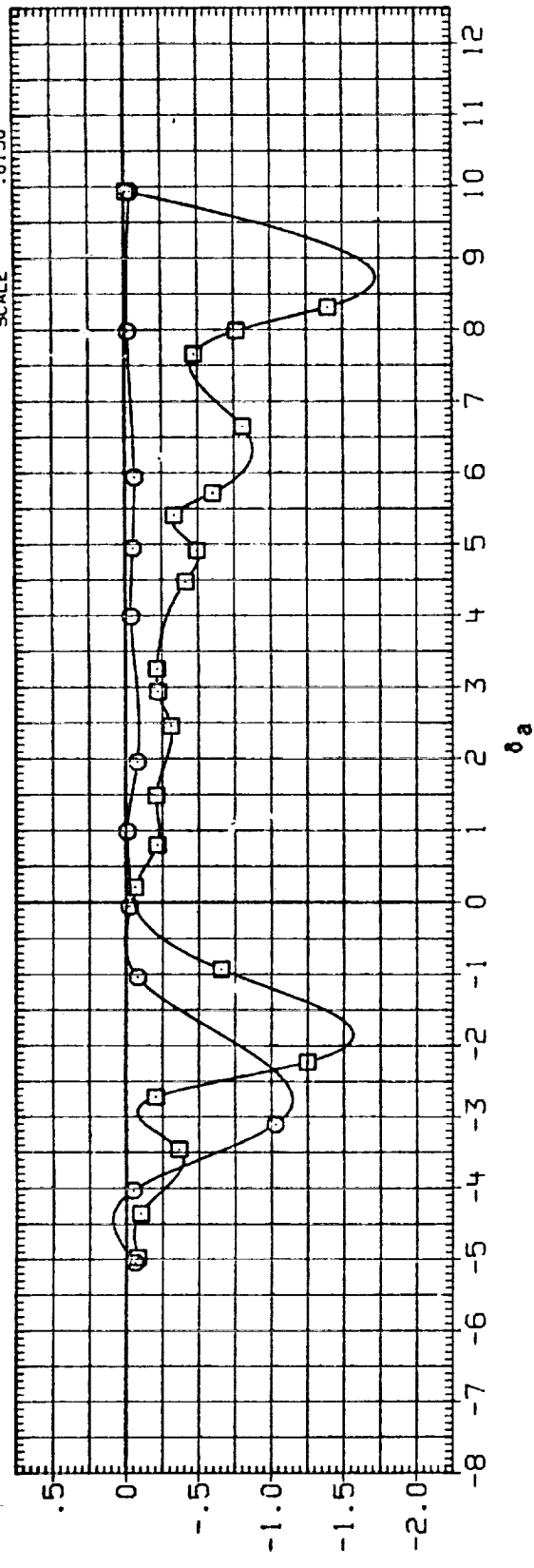


FIG. 11 EFFECT OF P. JSE(1) VS. SWEEP(2) MODE OF AILERON DEFLECTION

(A) MACH = .50

DATA SET SYMBOL CONFIGURATION DESCRIPTION MODE RV/L ALPHA REFERENCE INFORMATION

(AUK115) LA70 BASELINE OF LAB2 (GAPS OPEN, CRIT ON) 2.000 3.500 6.000 SREF 2690.0000 SQ. FT.

(AUK116) LA70 BASELINE OF LAB2 (GAPS OPEN, CRIT ON) 2.000 3.500 6.000 LREF 474.8000 INCHES

(AUK113) LA70 BASELINE OF LAB2 (GAPS OPEN, CRIT ON) 1.000 3.500 6.000 BREF 936.6800 IN. X0

(AUK114) LA70 BASELINE OF LAB2 (GAPS OPEN, CRIT ON) 1.000 3.500 6.000 XMRP 1076.7000 IN. X0
 YMRP .0°30 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

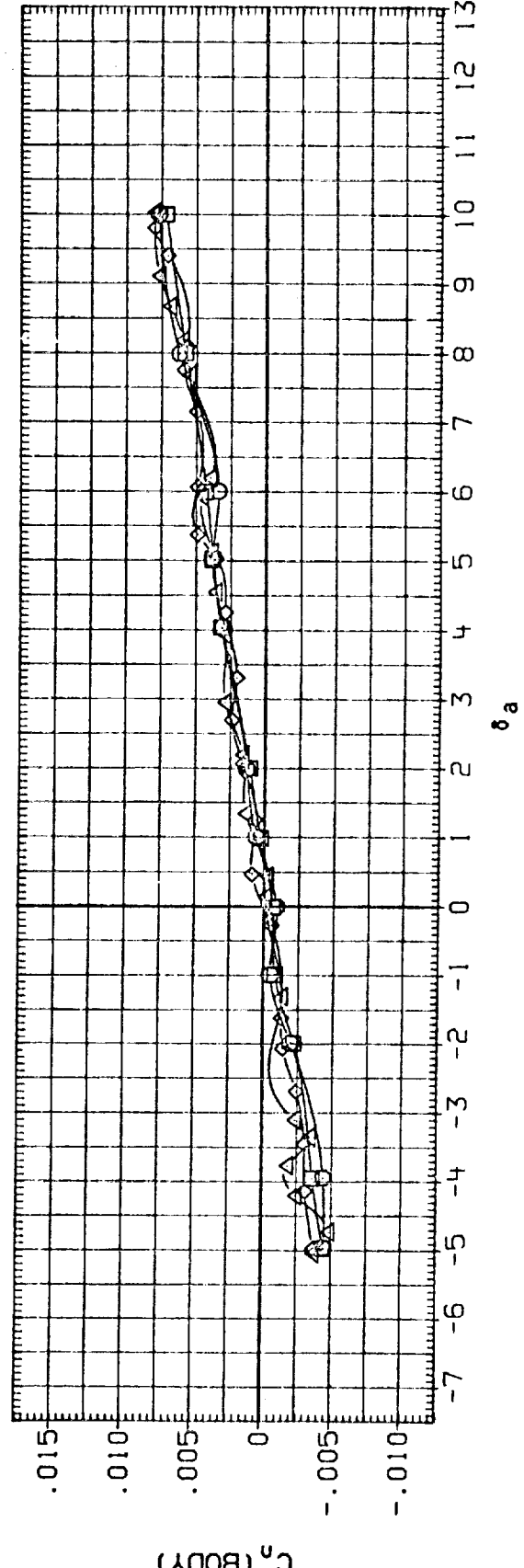
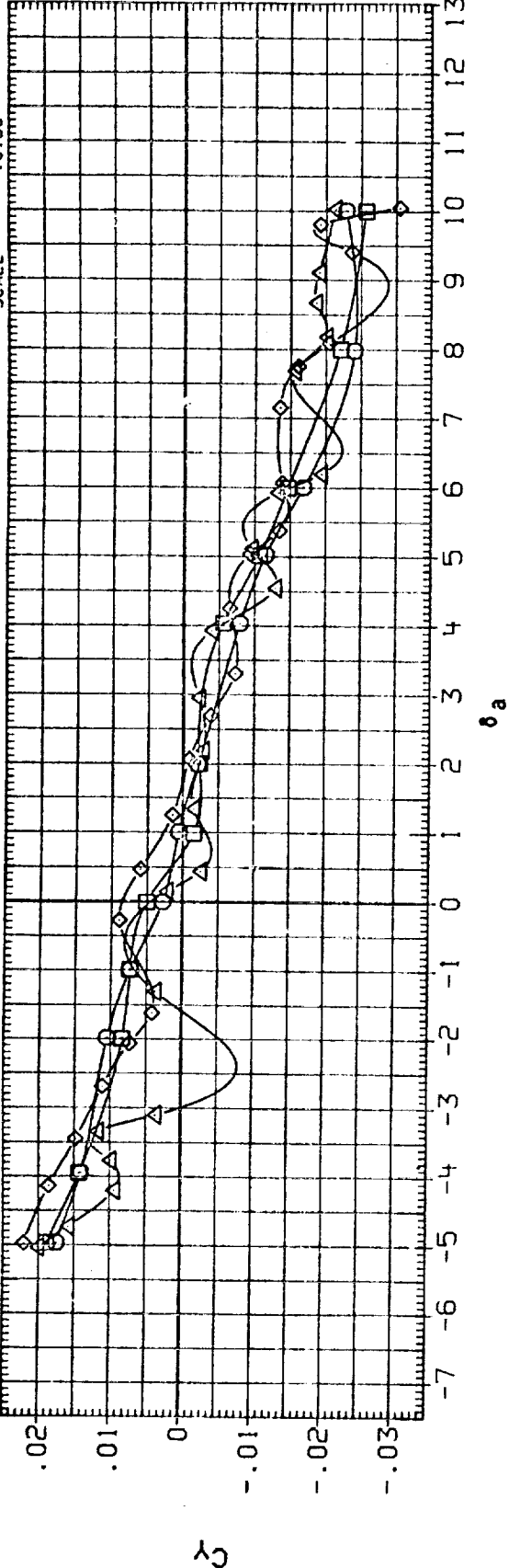


FIG. 11 EFFECT OF PAUSE(1) VS. SWEEP(2) MODE OF AILERON DEFLECTION

DATA SET SYMBOL

CONFIGURATION DESCRIPTION

LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
 LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
 LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
 LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)

MODE

RN/L ALPHA

REFERENCE INFORMATION

SREF 2590.0000 SQ.FT.
 LREF 474.8000 INCHES
 BRFP 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0

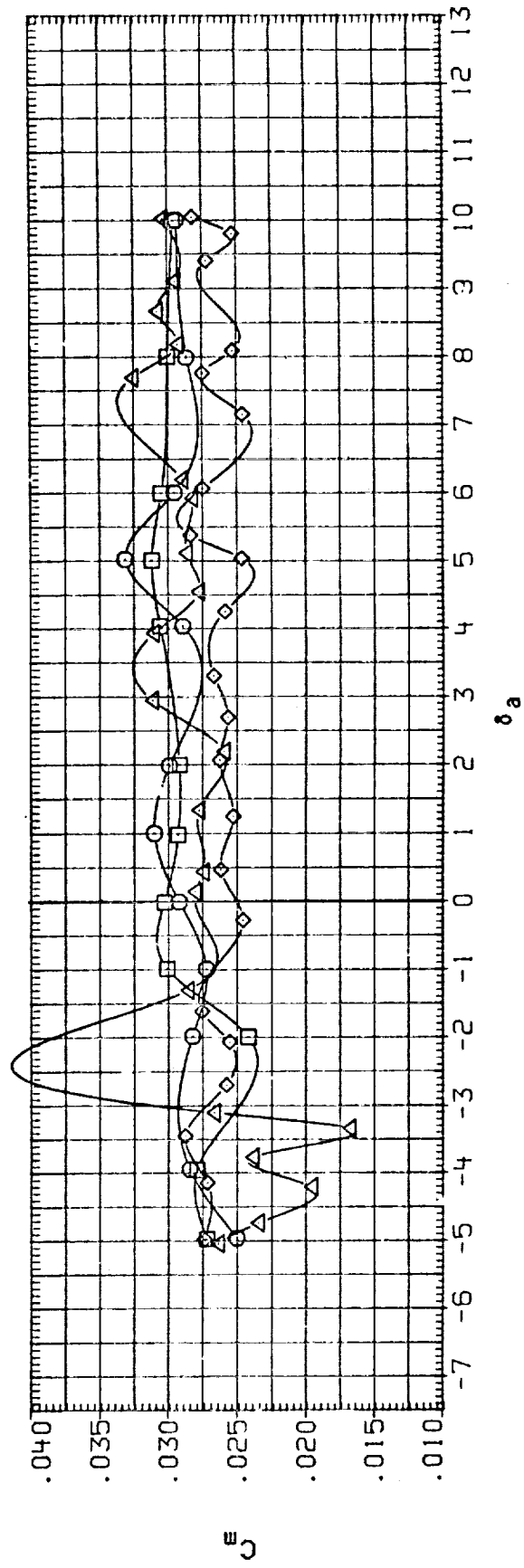
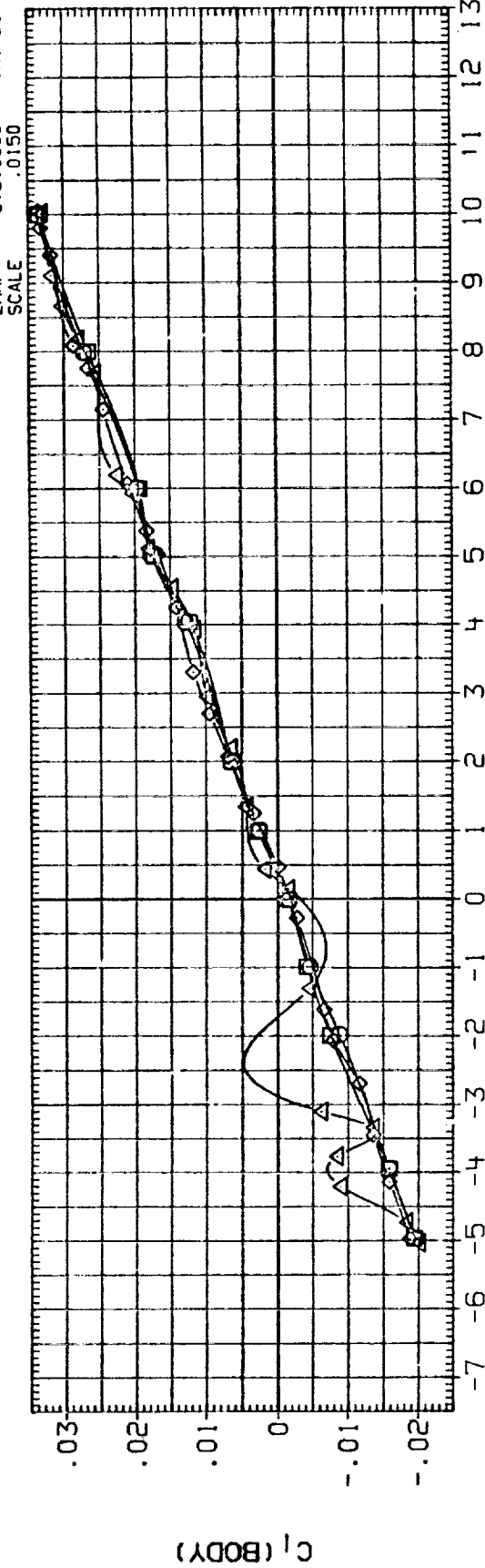


FIG. 11 EFFECT OF PAUSE(1) VS. SWEEP(2) MODE OF AILERON DEFLECTION

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | MODE | RN/L | ALPHA | REFERENCE INFORMATION |
|-----------|--------|--|-------|-------|-------|-----------------------|
| (AUK1115) | ○ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 2.000 | 3.500 | 6.000 | SREF 2690.0000 50.FT. |
| (AUK1116) | □ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 2.000 | 3.500 | 6.000 | LREF 474.8000 INCHES |
| (AUK1113) | ◇ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 1.000 | 3.500 | 6.000 | BREF 936.6800 INCHES |
| (AUK1114) | △ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | 1.000 | 3.500 | 6.000 | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

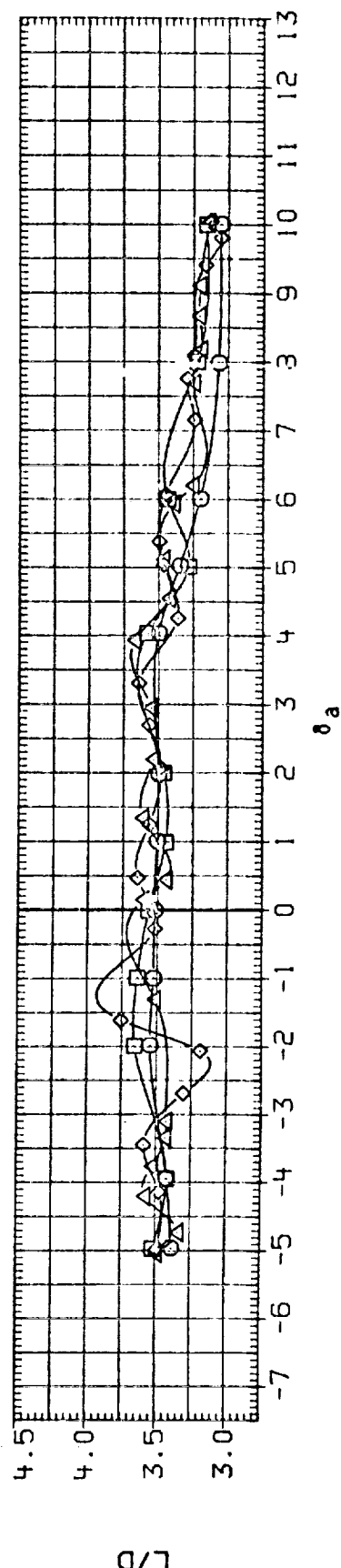
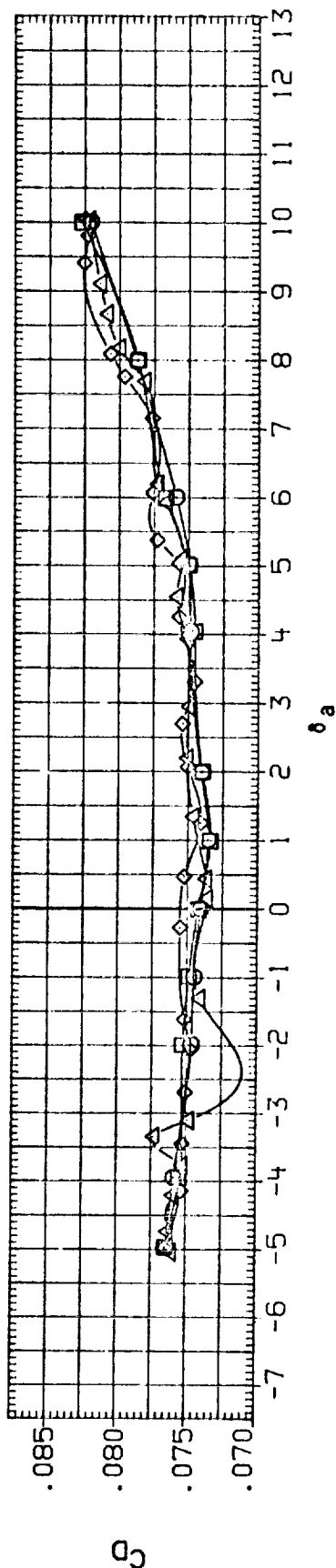
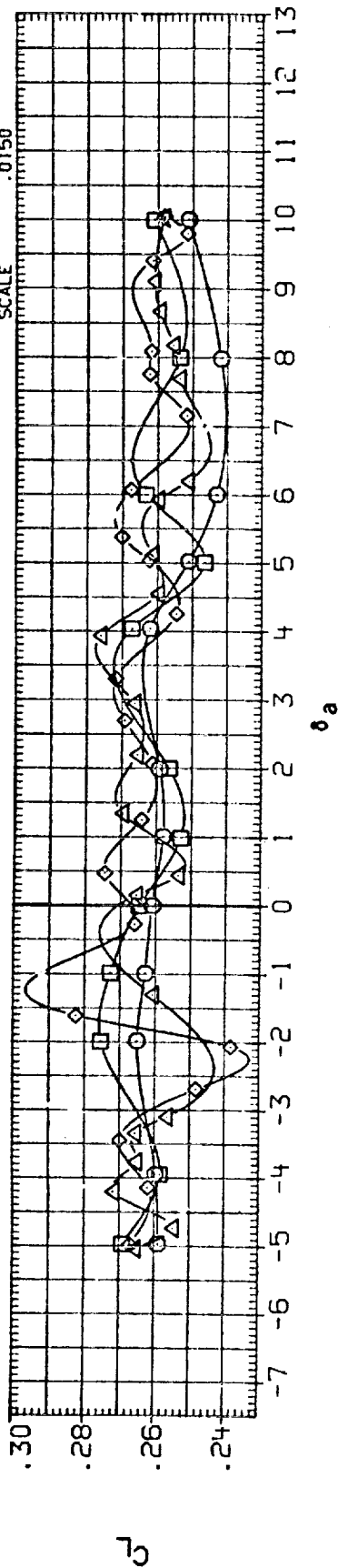


FIG. 11 EFFECT OF PAUSE(1) VS. SWEEP(2) MODE OF AILERON DEFLECTION

DATA SET SYMBOL CONFIGURATION DESCRIPTION

| | | |
|----------|------|---------------------------------------|
| (BUK115) | LA70 | BASELINE OF LA62 (GAPS OPEN, GRIT ON) |
| (BUK116) | LA70 | BASELINE OF LA62 (GAPS OPEN, GRIT ON) |
| (BUK113) | LA70 | BASELINE OF LA62 (GAPS OPEN, GRIT ON) |
| (BUK114) | LA70 | BASELINE OF LA62 (GAPS OPEN, GRIT ON) |

MODE RN/L ALPHA

| | | |
|-------|-------|-------|
| 2.000 | 3.500 | 6.000 |
| 2.000 | 3.500 | 6.000 |
| 1.000 | 3.500 | 6.000 |

REFERENCE INFORMATION

| | | |
|------|-----------|---------|
| SREF | 2690.0000 | SO. FT. |
| LREF | 474.8000 | INCHES |
| BREF | 936.6800 | INCHES |
| XMRP | 1076.7000 | IN. YO |
| YMRP | .0000 | IN. ZO |
| ZMRP | 375.0000 | IN. ZO |

SCALE .0150

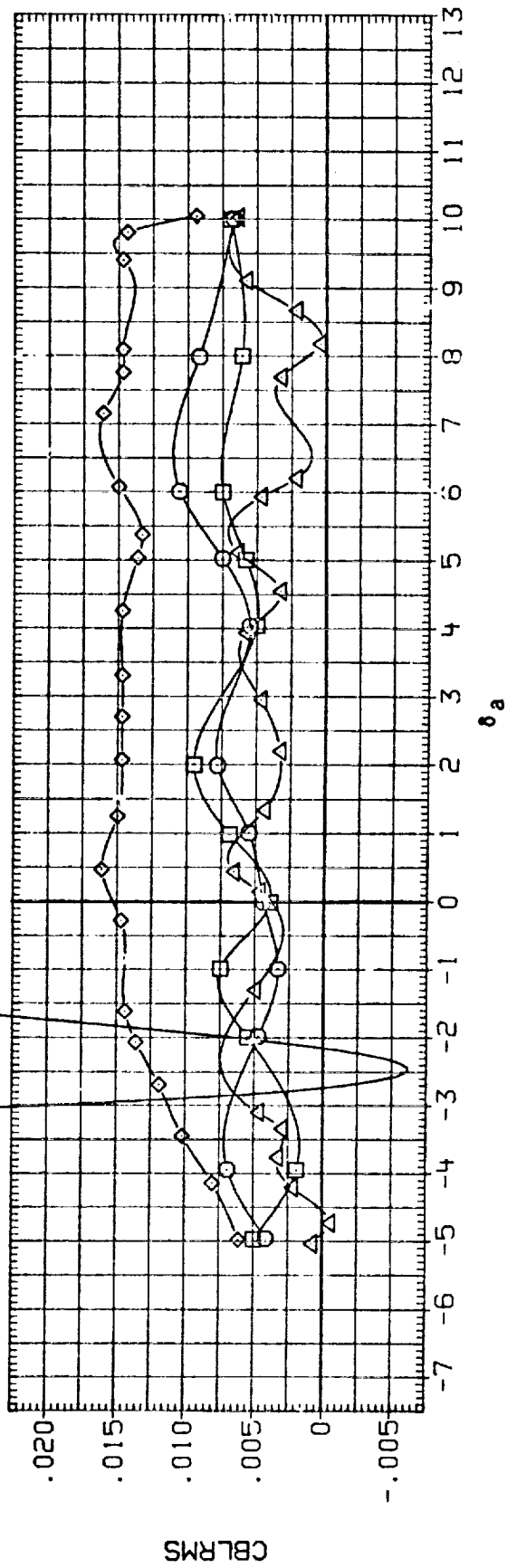
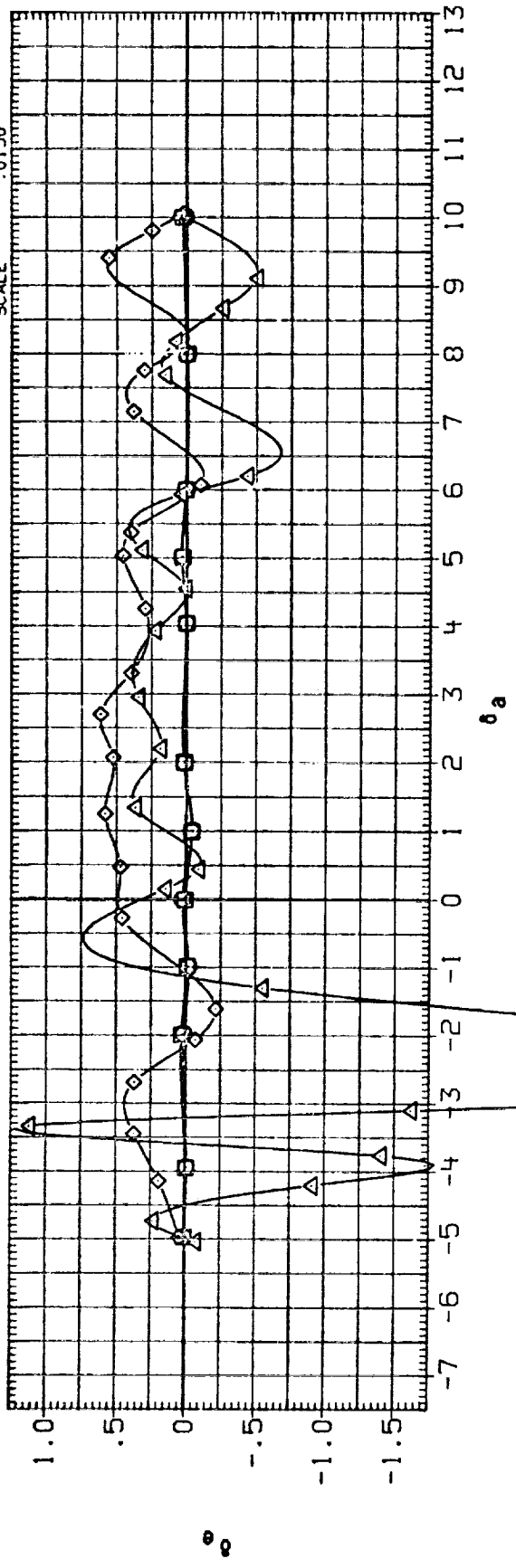


FIG. 11 EFFECT OF PAUSE(1) VS. SWEEP(2) MODE OF AILERON DEFLECTION

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK019) O LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON)
 (RUK023) □ LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON)
 (RUK027) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK035) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000
 RN/L 3.500
 ELEVON .000
 AIRLON .000
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 X:MRP 1076.7000 IN. XO
 Y:MRP .0000 IN. YO
 Z:MRP 375.0000 IN. ZO
 SCALE .0150

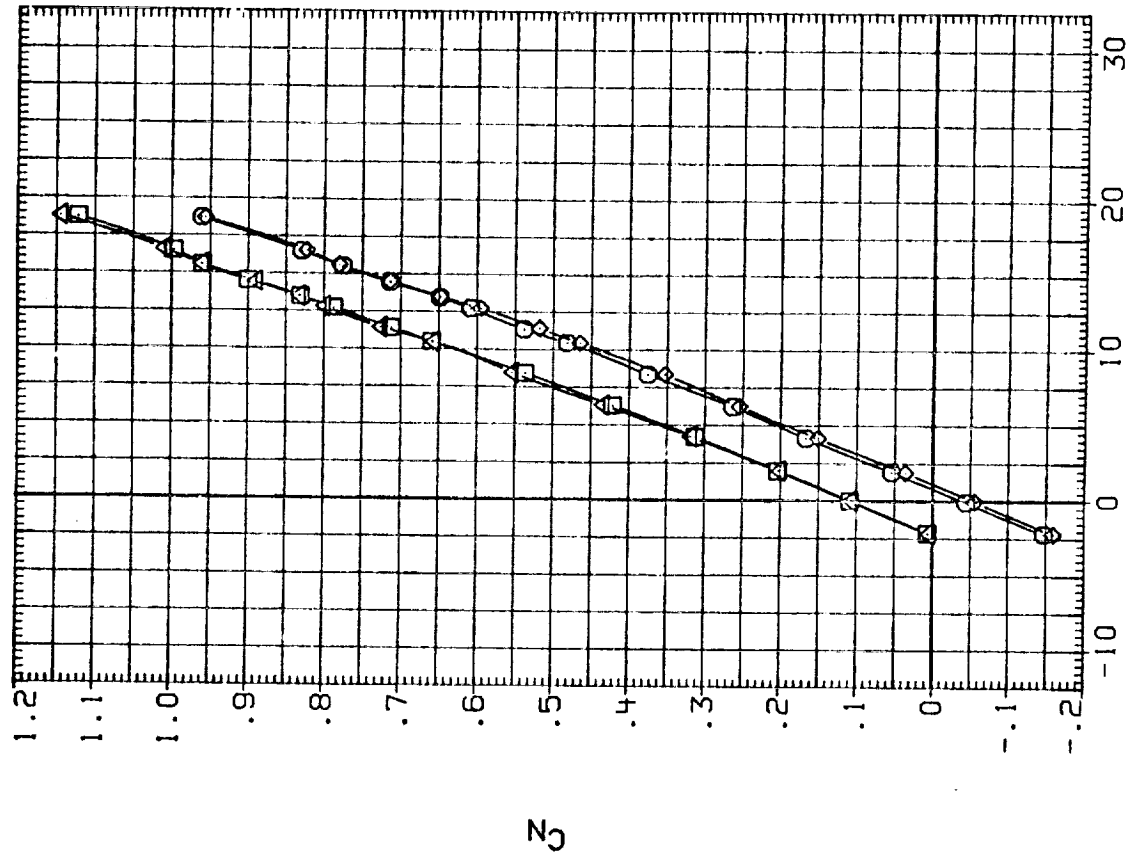
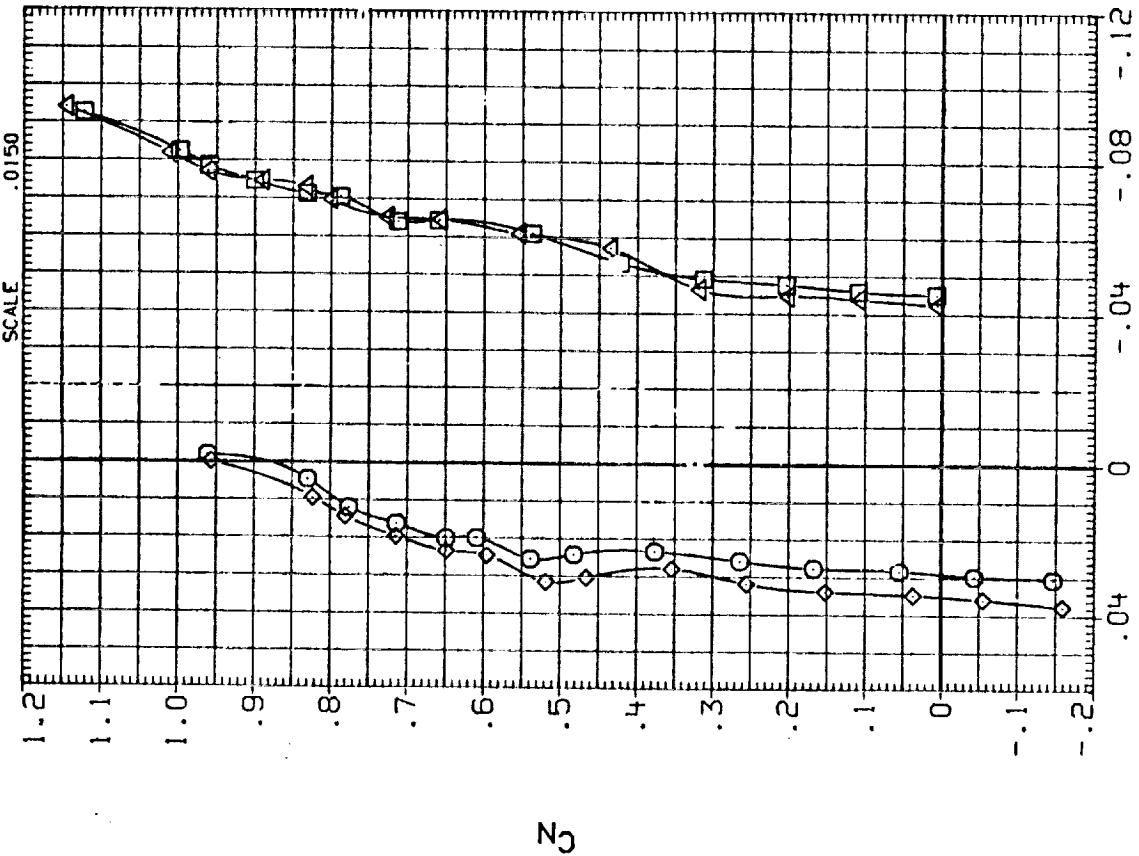


FIG. 12 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 3.5

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK019) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK023) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK027) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK035) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIRLON

.000 3.500 .000 .000

.000 3.500 10.000 .000

.000 3.500 .000 .000

.000 3.500 10.000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 376.0000 IN. ZO

SCALE .0150

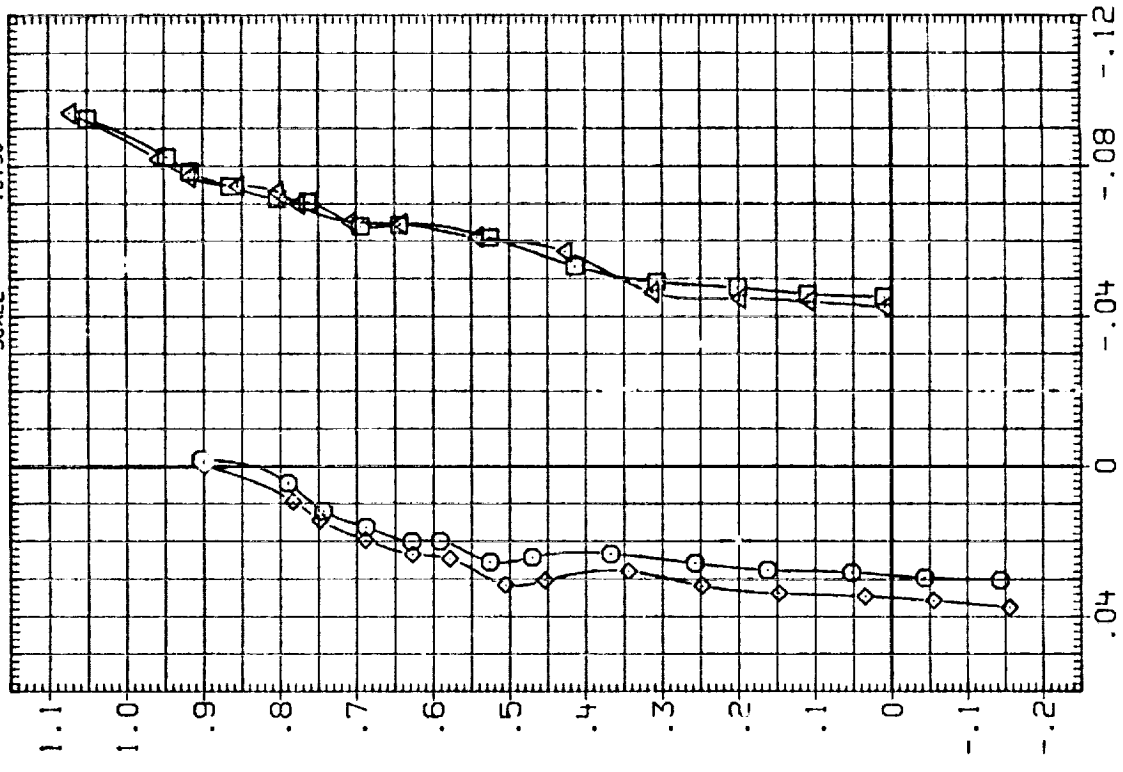
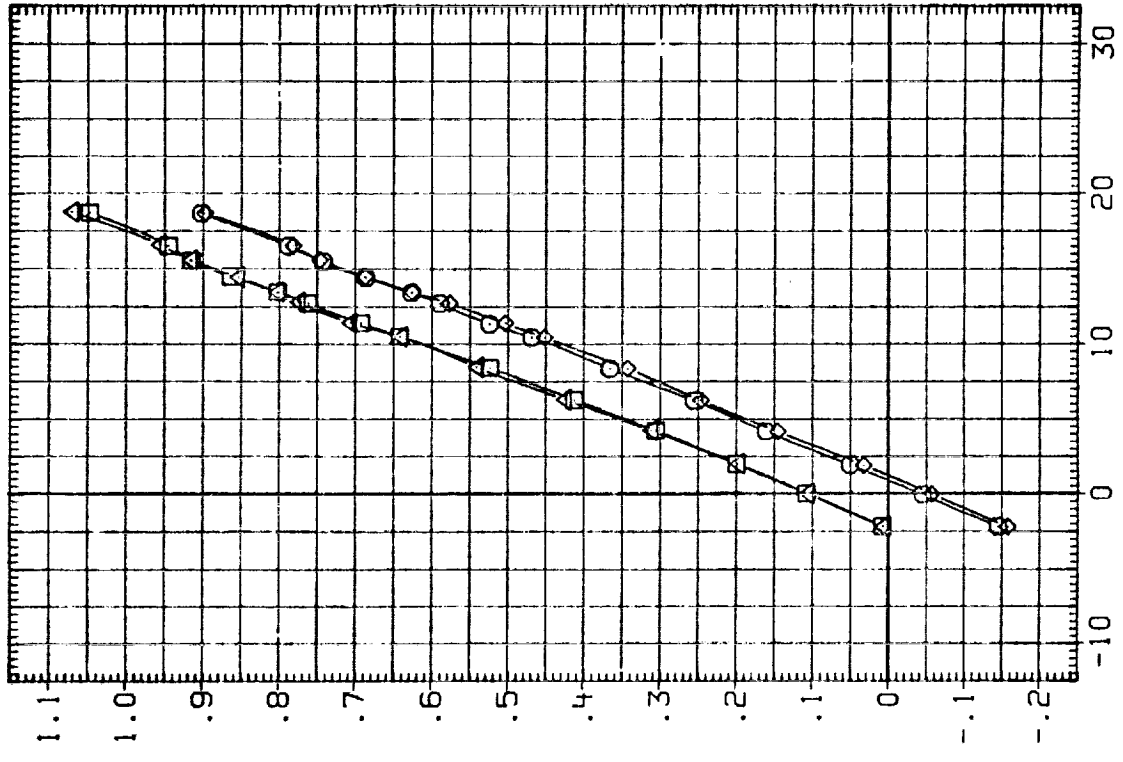


FIG. 12 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 3.5

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK019) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (RUK023) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (RUK027) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK035) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AILIRON
 .000 3.500 .000
 .000 3.500 .000
 .000 3.500 .000
 .000 3.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

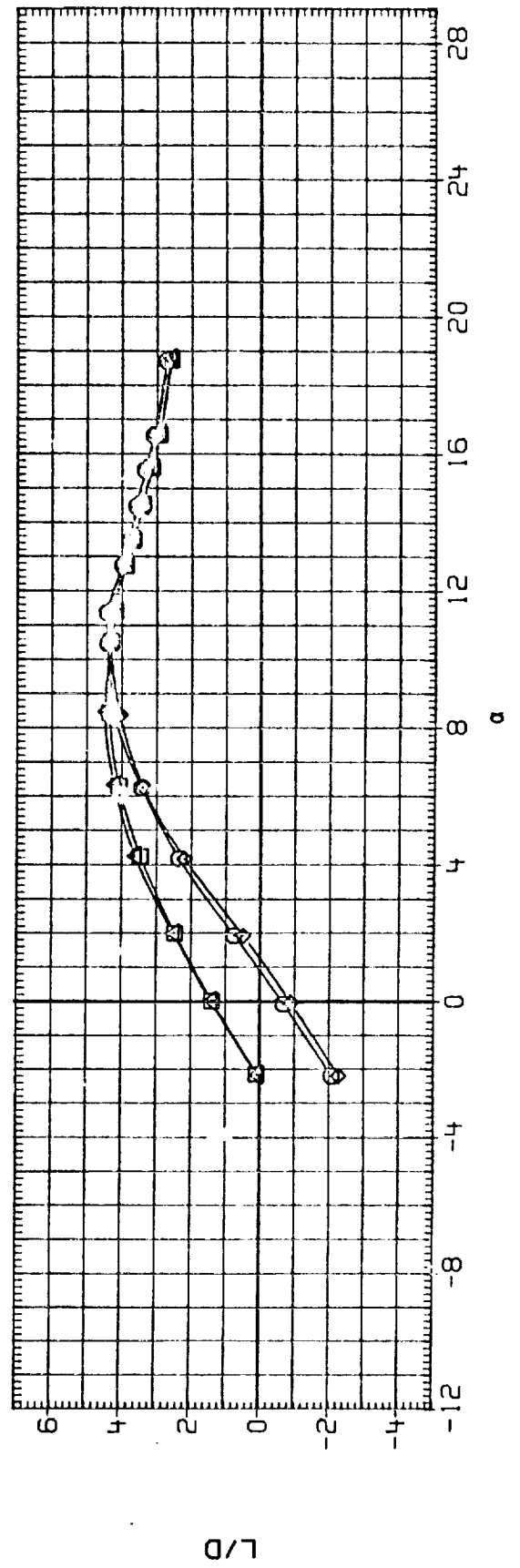
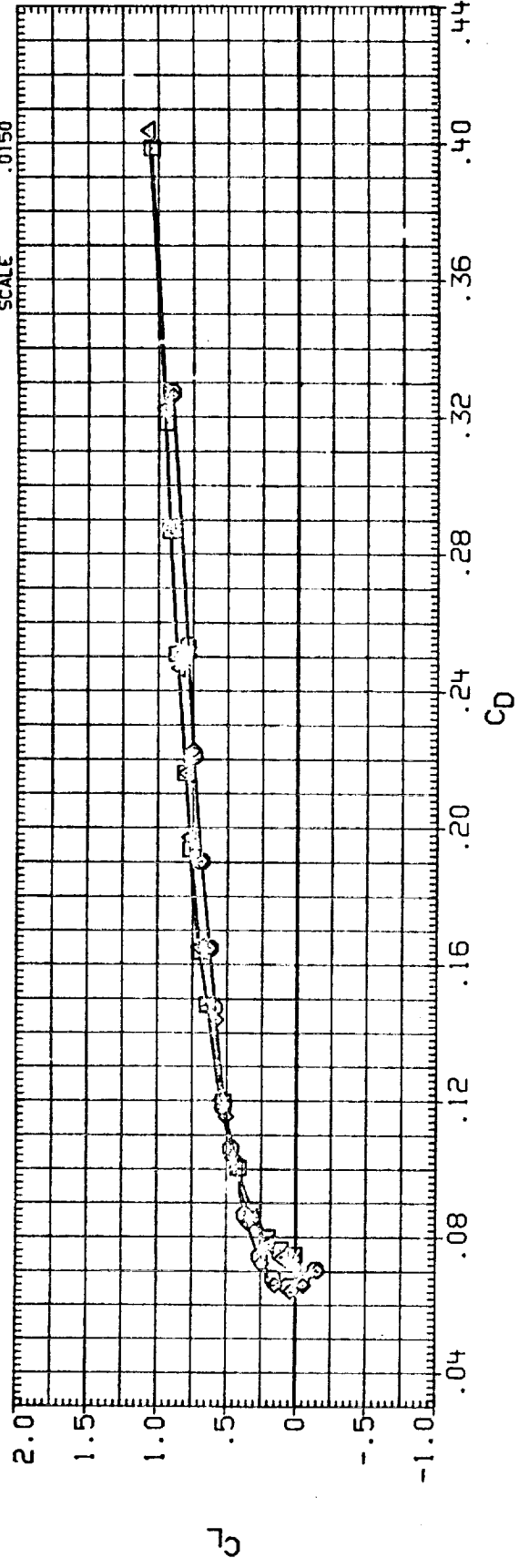


FIG. 12 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 3.5

| | | | | | | |
|-----------------|--|------|-------|--------|---------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILIRON | REFERENCE INFORMATION |
| (RUK019) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 3.500 | .000 | .000 | SREF 2690.0000 SO. FT. |
| (RUK023) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 3.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK027) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 3.500 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK035) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 3.500 | 10.000 | .000 | X1:RP 1076.7000 IN. XO |
| | | | | | | Y1:RP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

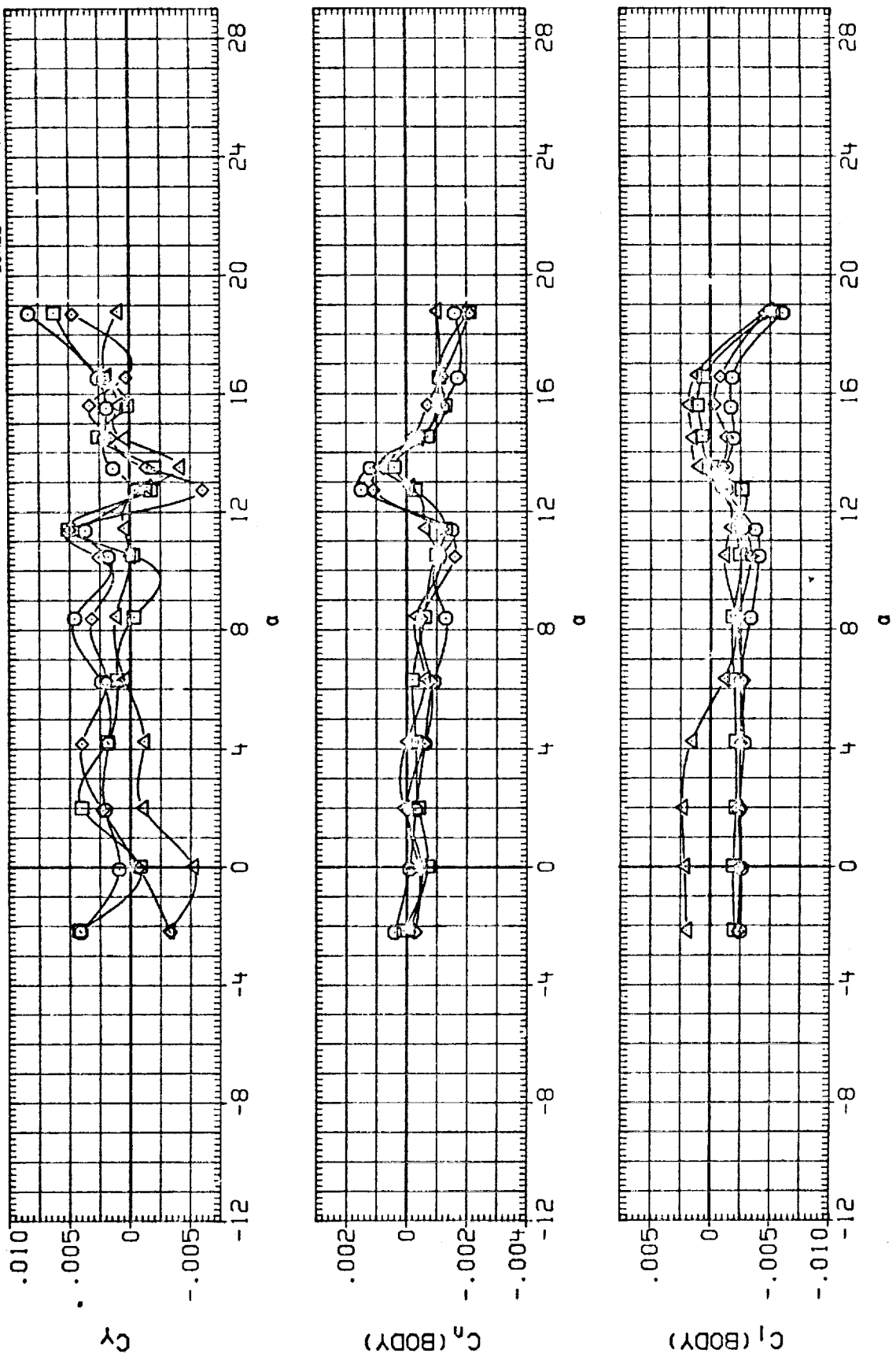


FIG. 12 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 3.5

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK019) □ LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)

(CUK023) □ LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)

(CUK027) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK035) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AILRON

.000 3.500 .000 .000

.000 3.500 10.000 .000

.000 3.500 .000 .000

.000 3.500 10.000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

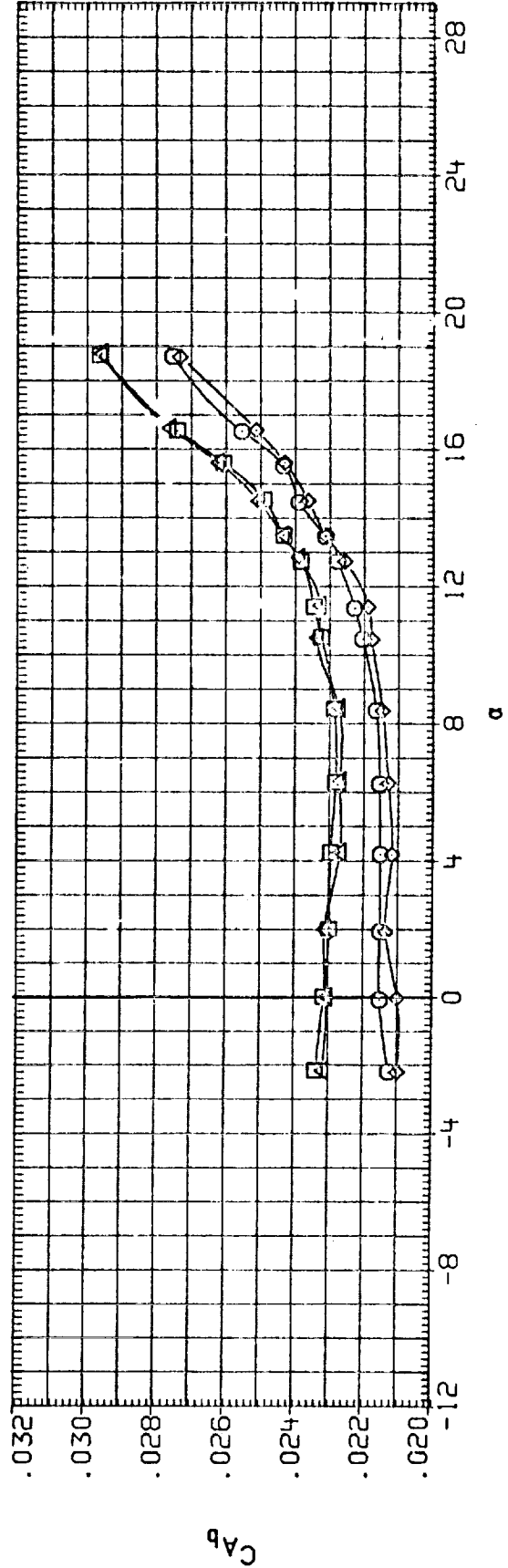
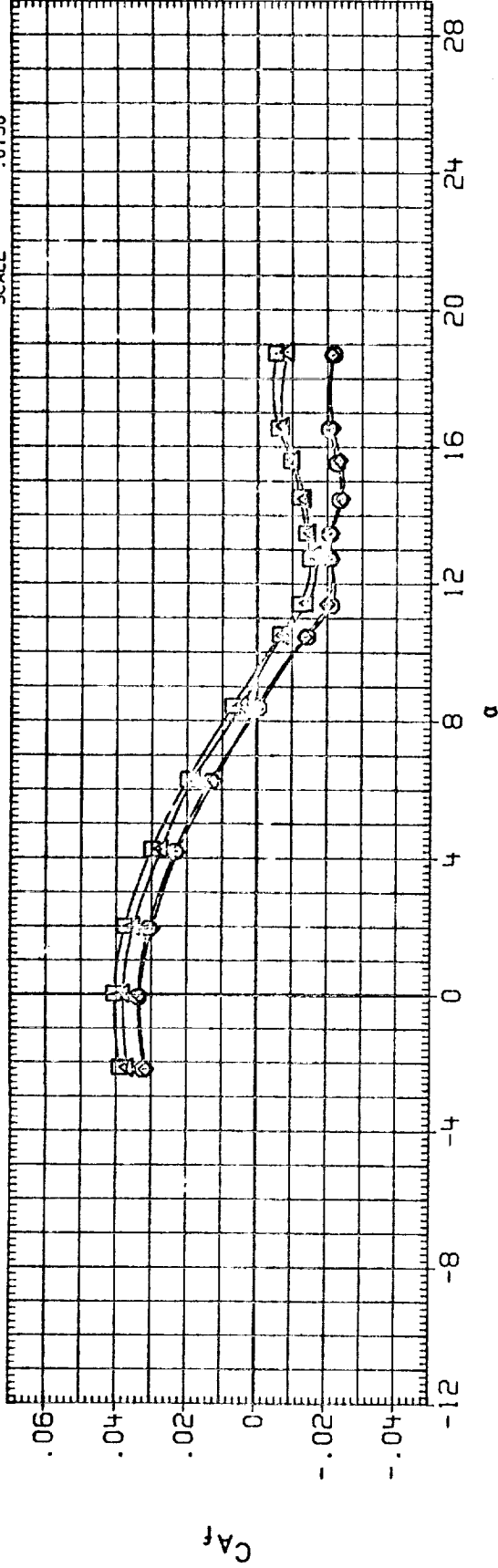


FIG. 12 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 3.5

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|----------|--------|---|------|-------|--------|--------|-----------------------|
| (CUK019) | ○ | L70 BASELINE OF L452 (GAPS OPEN, GRIT ON) | .000 | 3.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK023) | □ | L70 BASELINE OF L452 (GAPS OPEN, GRIT ON) | .000 | 3.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (CUK027) | ◇ | L70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 3.500 | .000 | .000 | BREF 936.6800 INCHES |
| (CUK035) | △ | L70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 3.500 | 10.000 | .000 | XMRP 1076.7000 IN. YO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

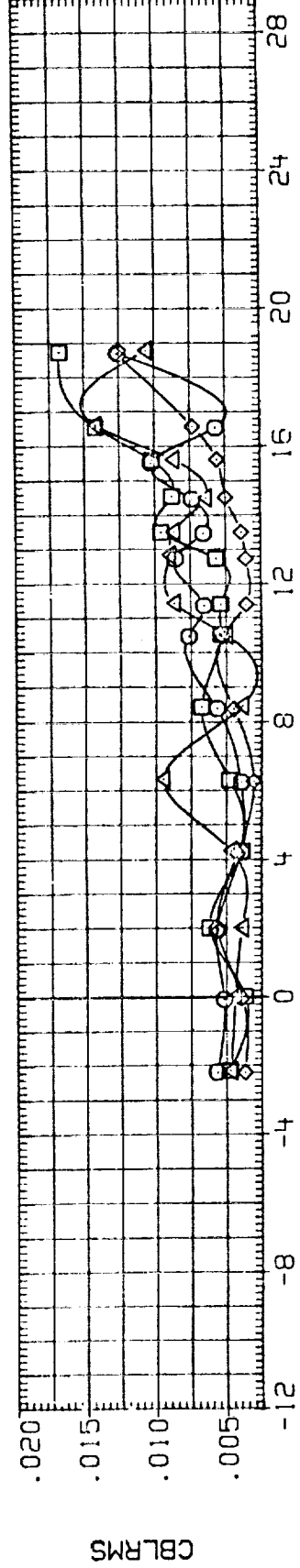
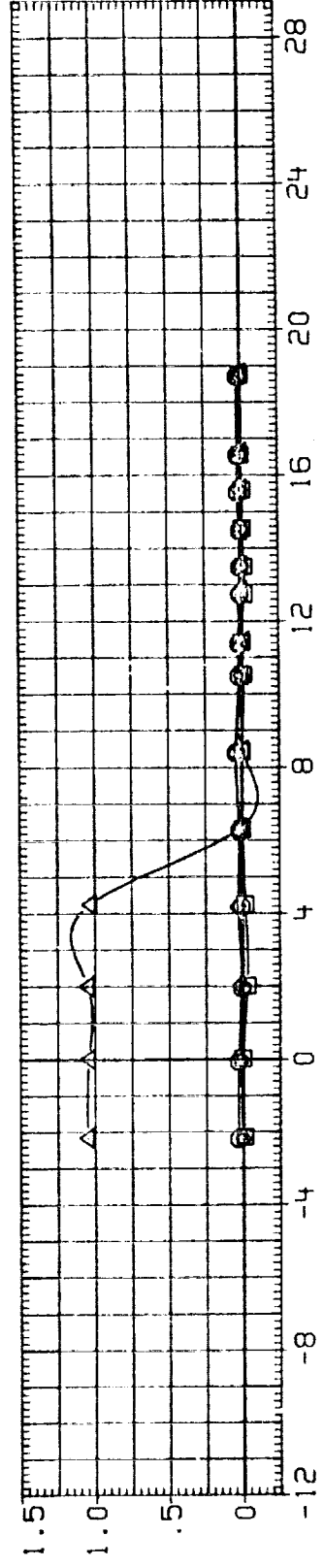
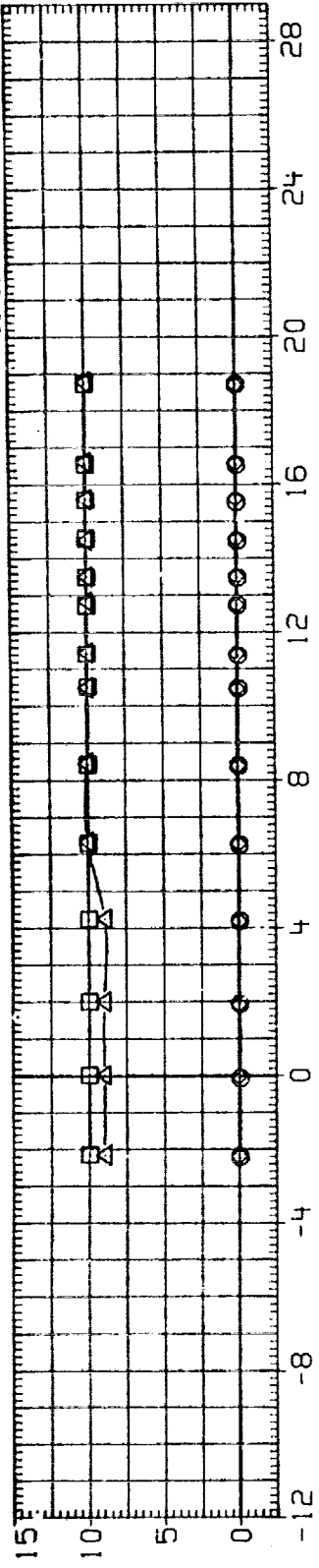


FIG. 12 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 3.5

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

| | | |
|----------|---|--|
| (RUK020) | ○ | LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON) |
| (RUK024) | □ | LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON) |
| (RUK028) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK036) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |

BETA RN/L ELEVON AIRLON

| | | | |
|------|-------|--------|------|
| .000 | 4.500 | .000 | .000 |
| .000 | 4.500 | 10.000 | .000 |
| .000 | 4.500 | .000 | .000 |
| .000 | 4.500 | 10.000 | .000 |

REFERENCE INFORMATION

| | | |
|------|-----------|--------|
| SREF | 2690.0000 | SQ.FT. |
| LREF | 474.8000 | INCHES |
| BREF | 936.6800 | INCHES |
| XMRP | 1076.7000 | IN. XO |
| YMRP | .0000 | IN. YO |
| ZMRP | 375.0000 | IN. ZO |

SCALE .0150

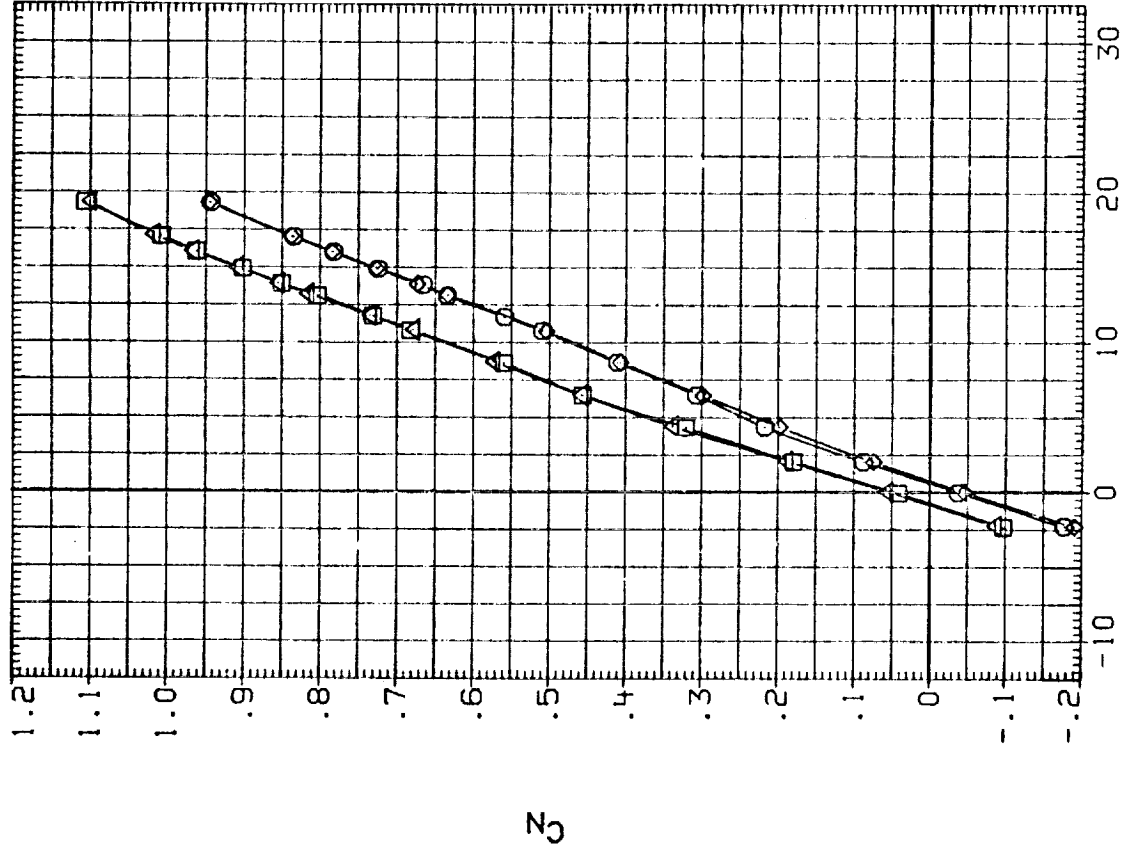
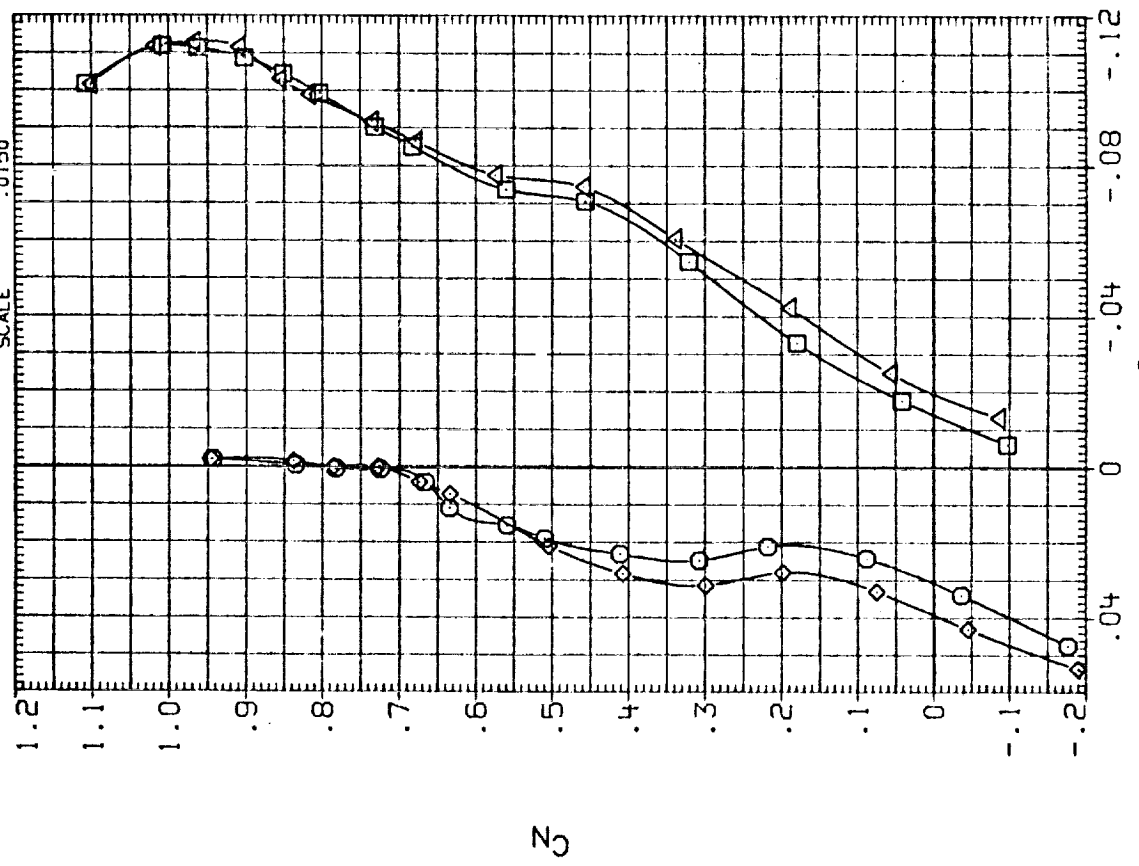


FIG. 13 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 4.5

(A) MACH = .90

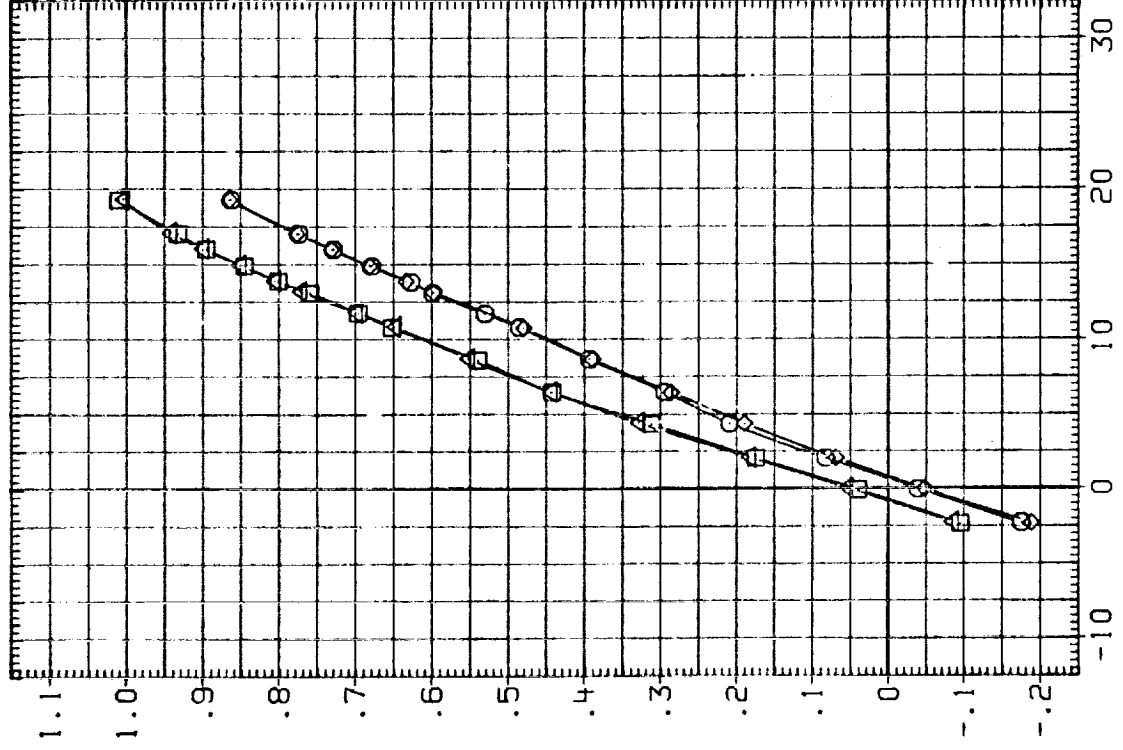
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK020) Q LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK024) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK028) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK036) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)



BETA RN/L ELEVON AIRLON

.000 4.500 .000 .000

.000 4.500 10.000 .000

.000 4.500 .000 .000

.000 4.500 10.000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

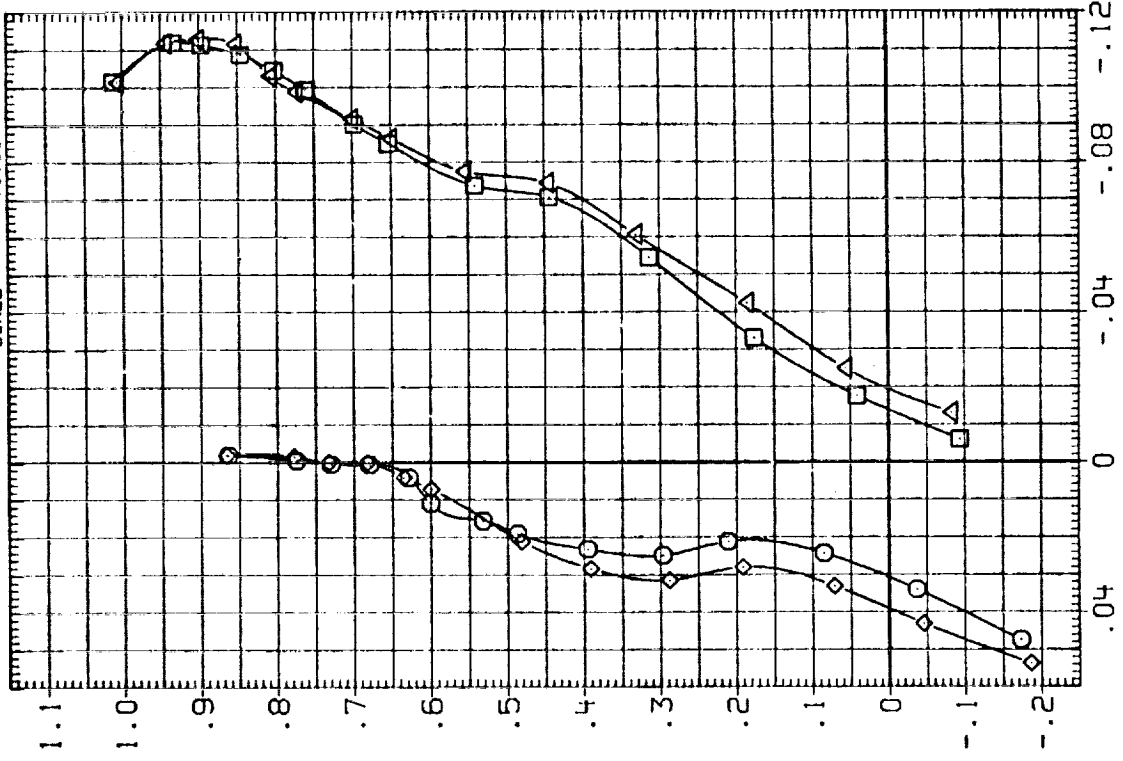


FIG. 13 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

(A)MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|------|-------|--------|--------|-----------------------|
| (RUK020) | ○ | LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK024) | □ | LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON) | .030 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK028) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK036) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

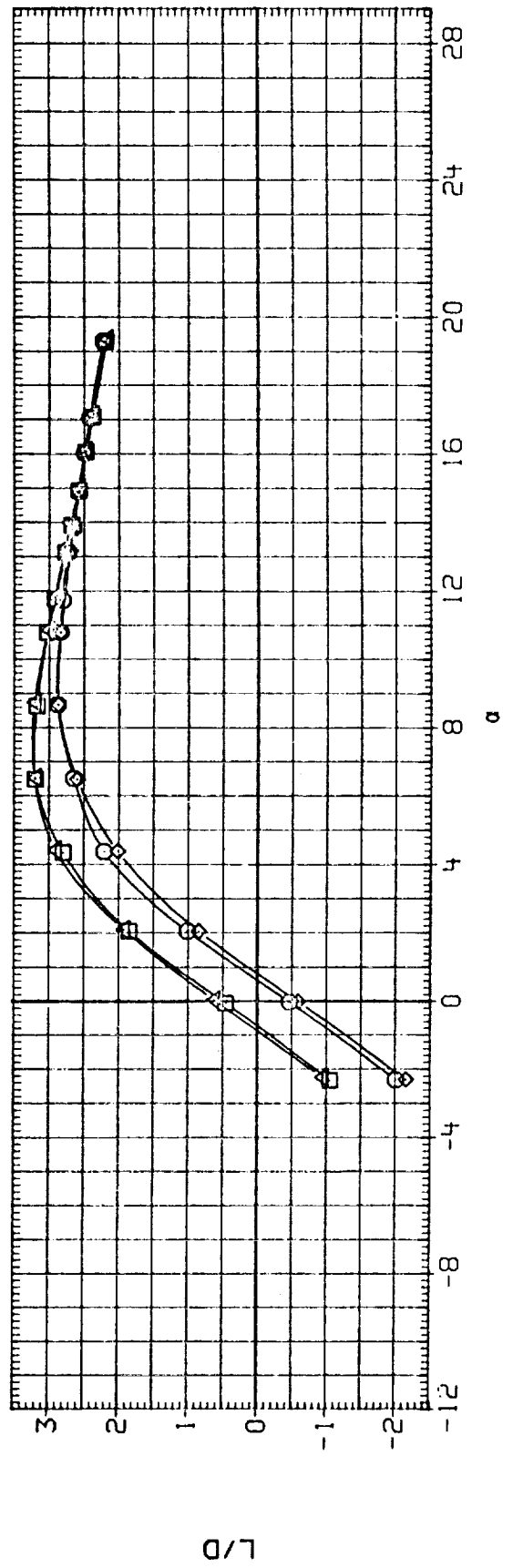
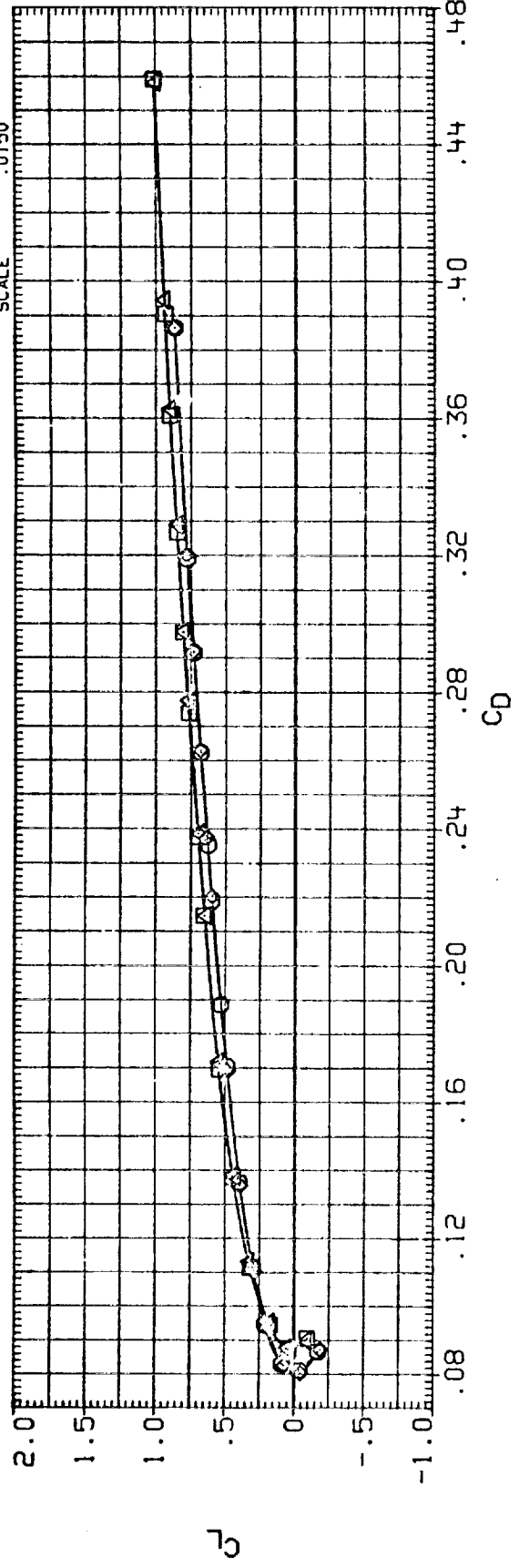


FIG. 13 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 4.5

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILERON | REFERENCE INFORMATION |
|-----------------|--|------|-------|--------|---------|-----------------------|
| (RUK020) | LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK024) | LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON) | .000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| | | | | | | ZMRP .0000 IN. YO |
| | | | | | | SCALE -.0150 |

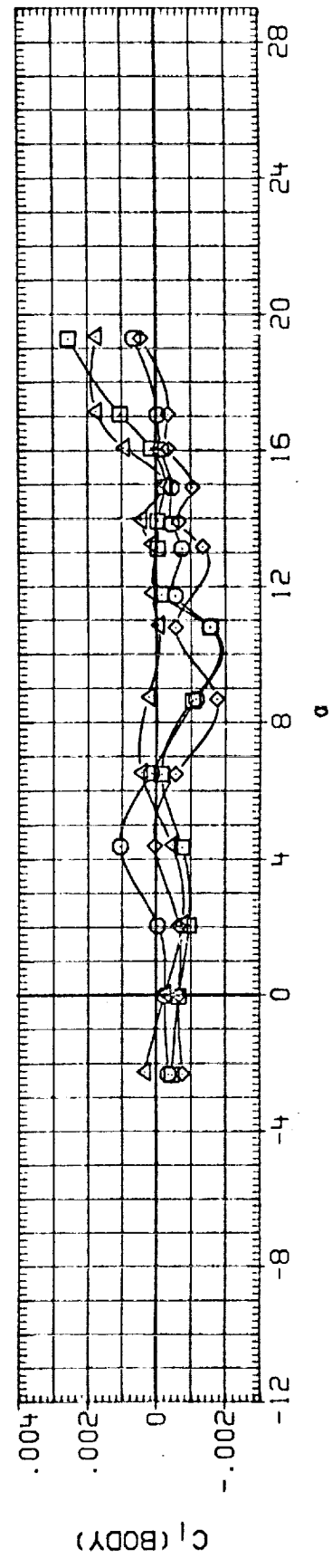
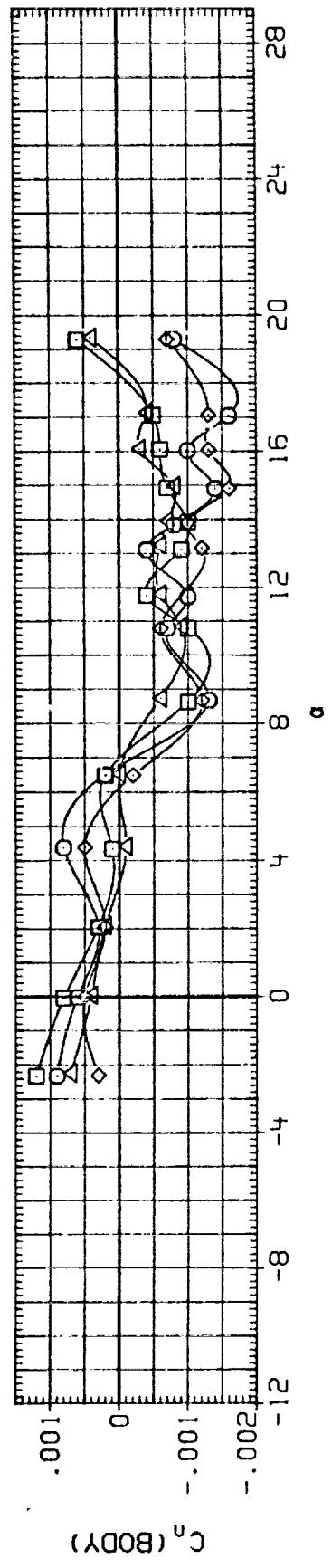
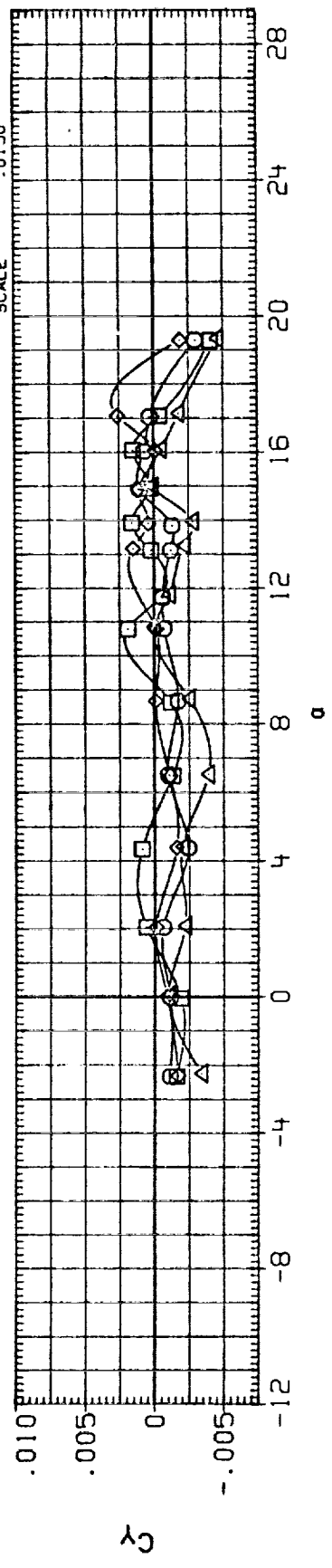


FIG. 13 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|-----------------|--|------|-------|--------|--------|-----------------------|
| (CUK020) | LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON) | .000 | 4.500 | .000 | .000 | SRCF 2690.0000 SO.FT. |
| (CUK024) | LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON) | .000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (CUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (CUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

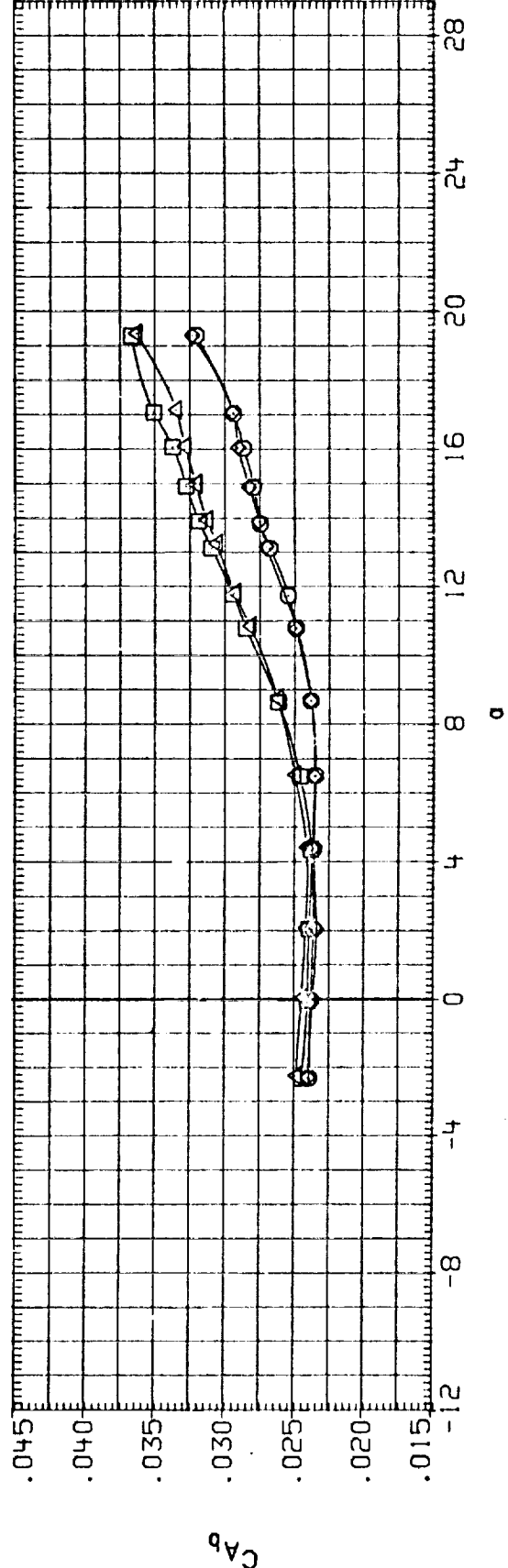
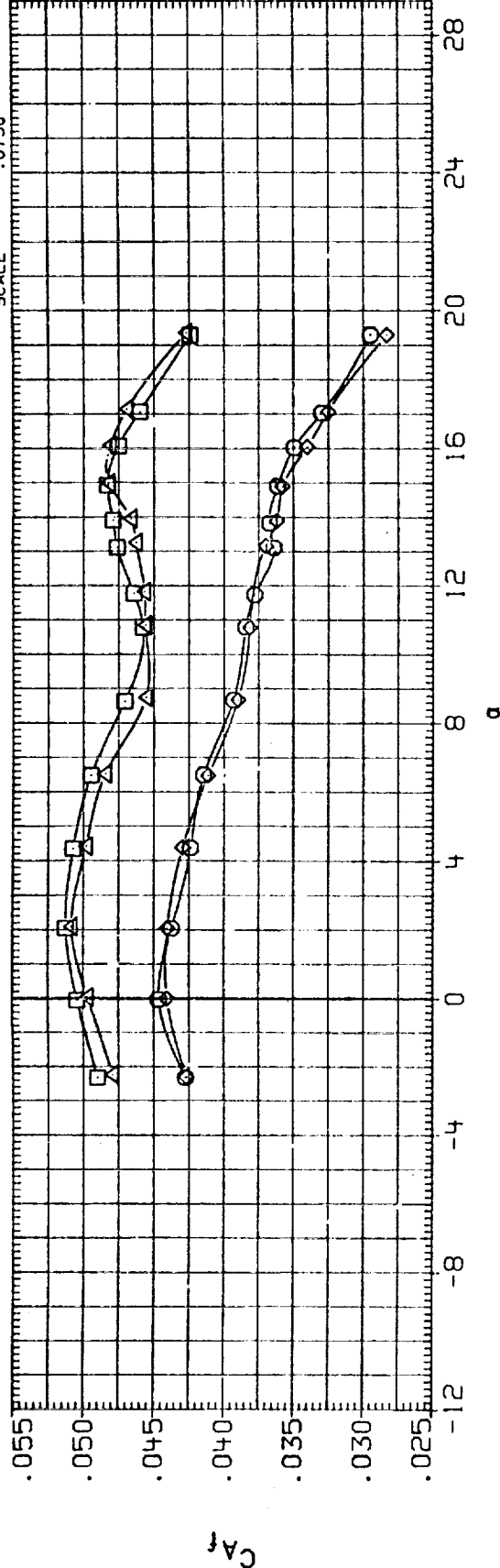


FIG. 13 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 4.5

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|----------|--------|--|------|-------|--------|--------|------------------------|
| (CUK020) | ○ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ. FT. |
| (CUK024) | □ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (CUK028) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (CUK036) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| | | | | | | | ZMRP .0000 IN. YO |
| | | | | | | | YMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

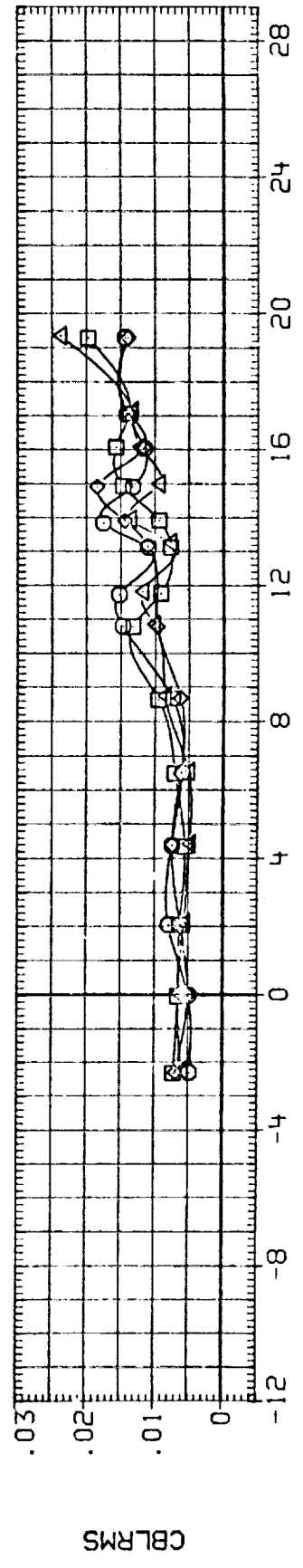
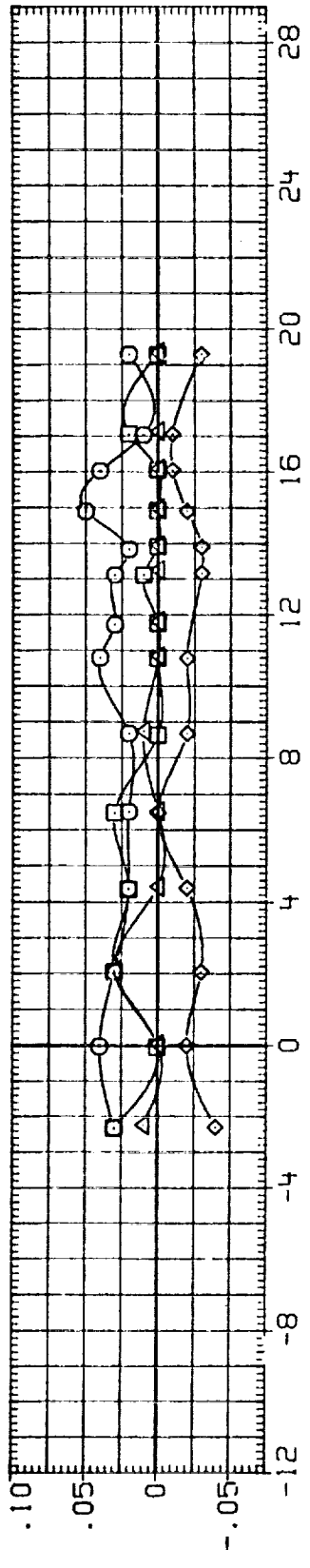
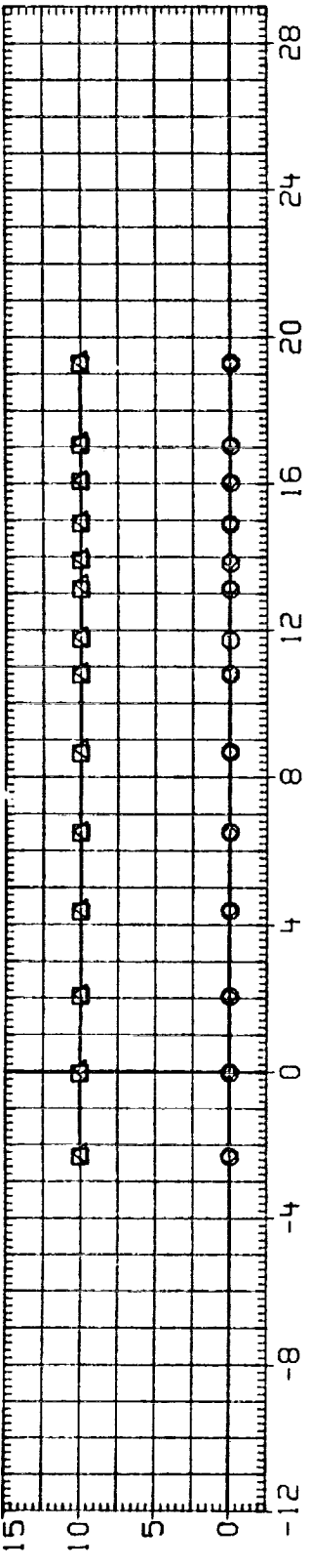


FIG. 13 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK019) □ LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
 (RUK021) ○ LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
 (RUK027) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK032) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000 RN/L 3.500 ELEVON .000 AIRLON .000
 .000 3.500 .000 .000 2.000
 .000 3.500 .000 .000 2.000
 .000 3.500 .000 .000 2.000

REFERENCE INFORMATION
 SREF 2690.0000 SO. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

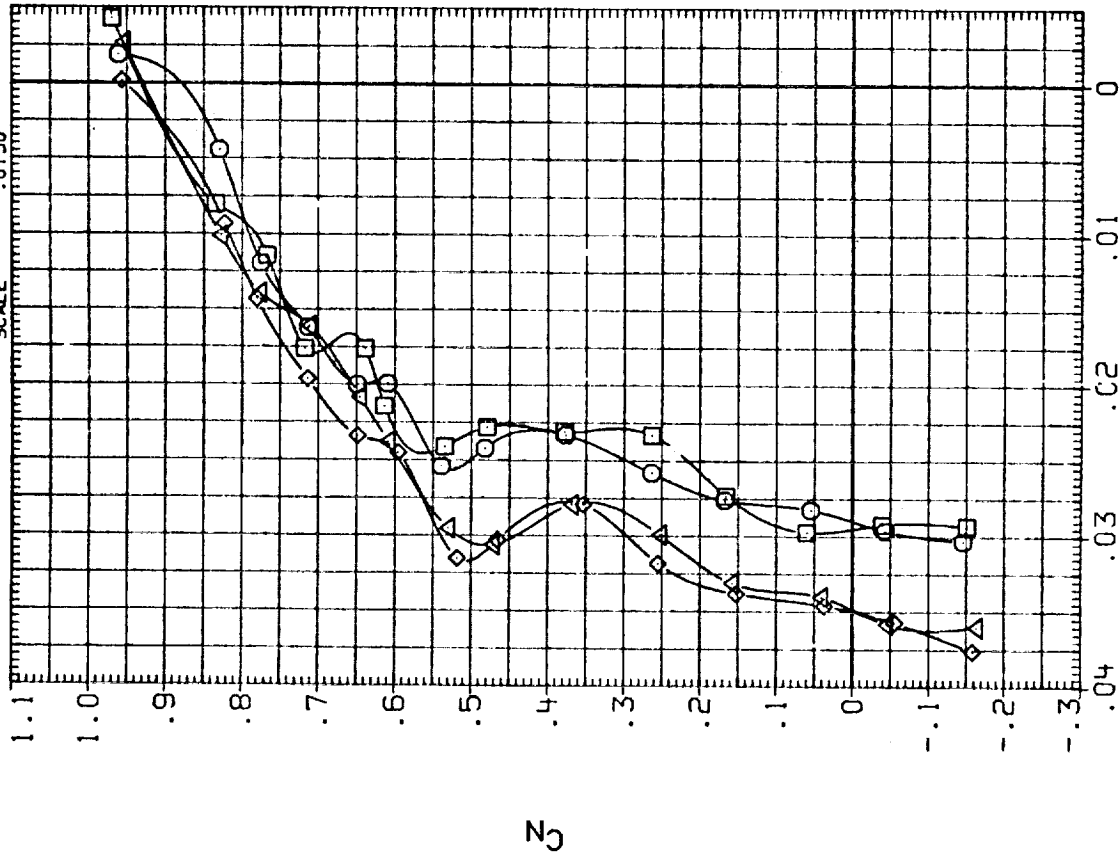
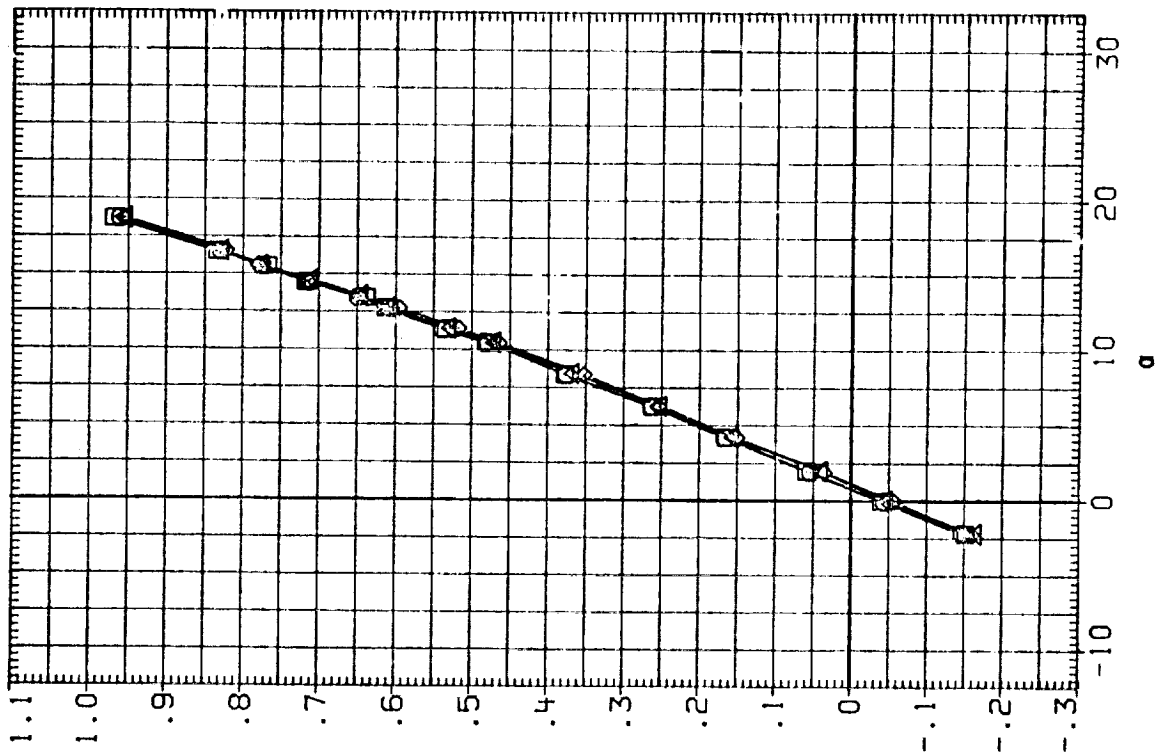


FIG. 14 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 3.5

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK019) O LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)

(RUK021) □ LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)

(RUK027) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK032) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AILRON

.000 3.500 .000 .000

.000 3.500 .000 2.000

.000 3.500 .000 .000

.000 3.500 .000 2.000

REFERENCE INFORMATION

SREF 2650.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

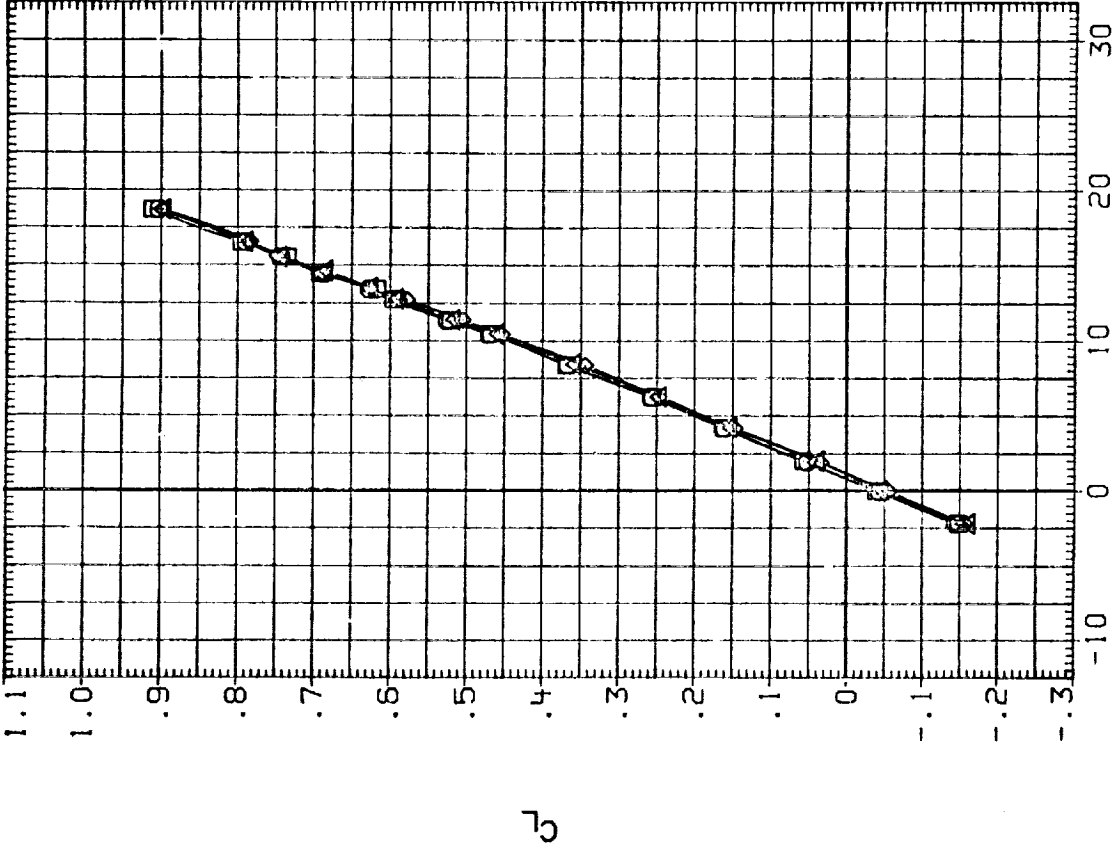
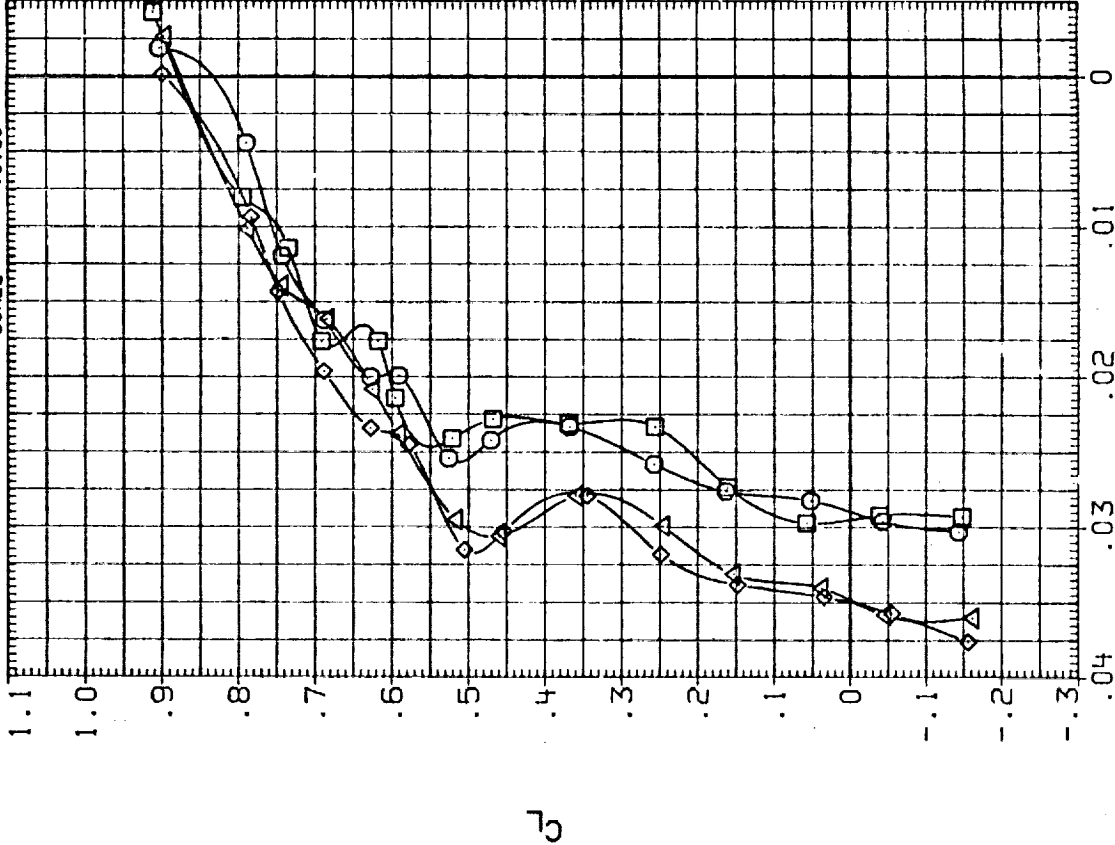


FIG. 14 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 3.5

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK019) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (RUK021) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (RUK027) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK032) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000
 RN/L 3.500
 ELEVON .000
 AIRLON .000

BETA .000
 RN/L 3.500
 ELEVON .000
 AIRLON 2.000

BETA .000
 RN/L 3.500
 ELEVON .000
 AIRLON 2.000

BETA .000
 RN/L 3.500
 ELEVON .000
 AIRLON 2.000

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

SCALE .0150

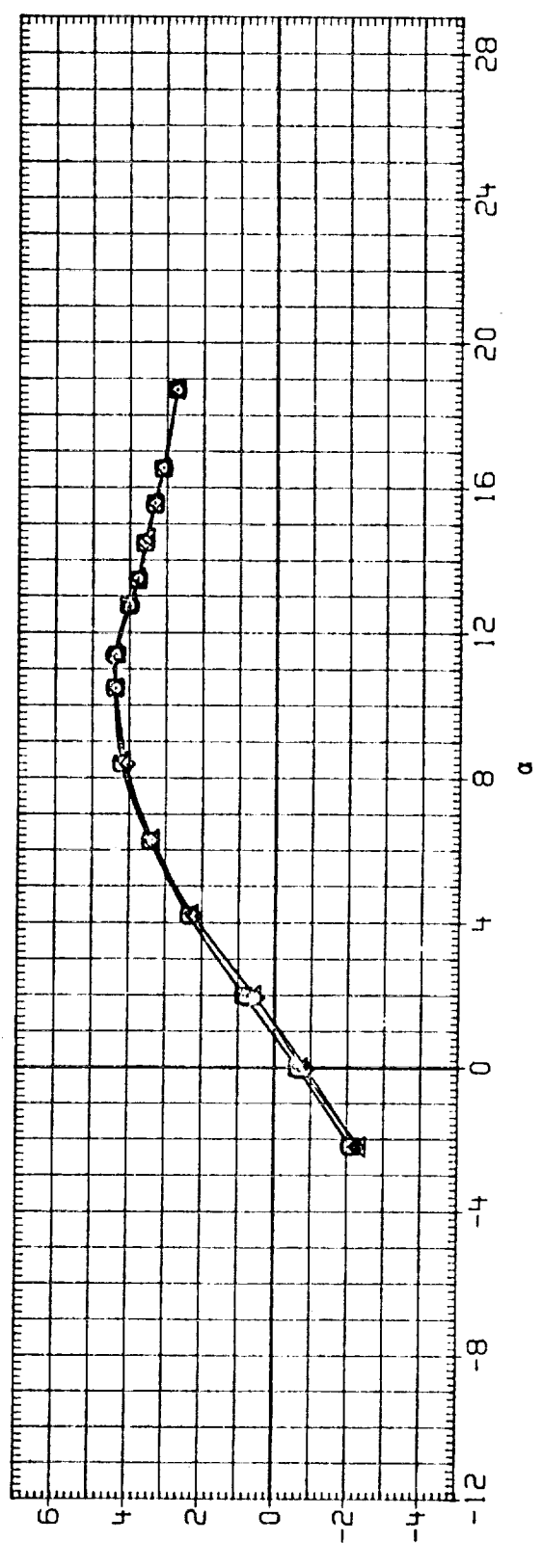
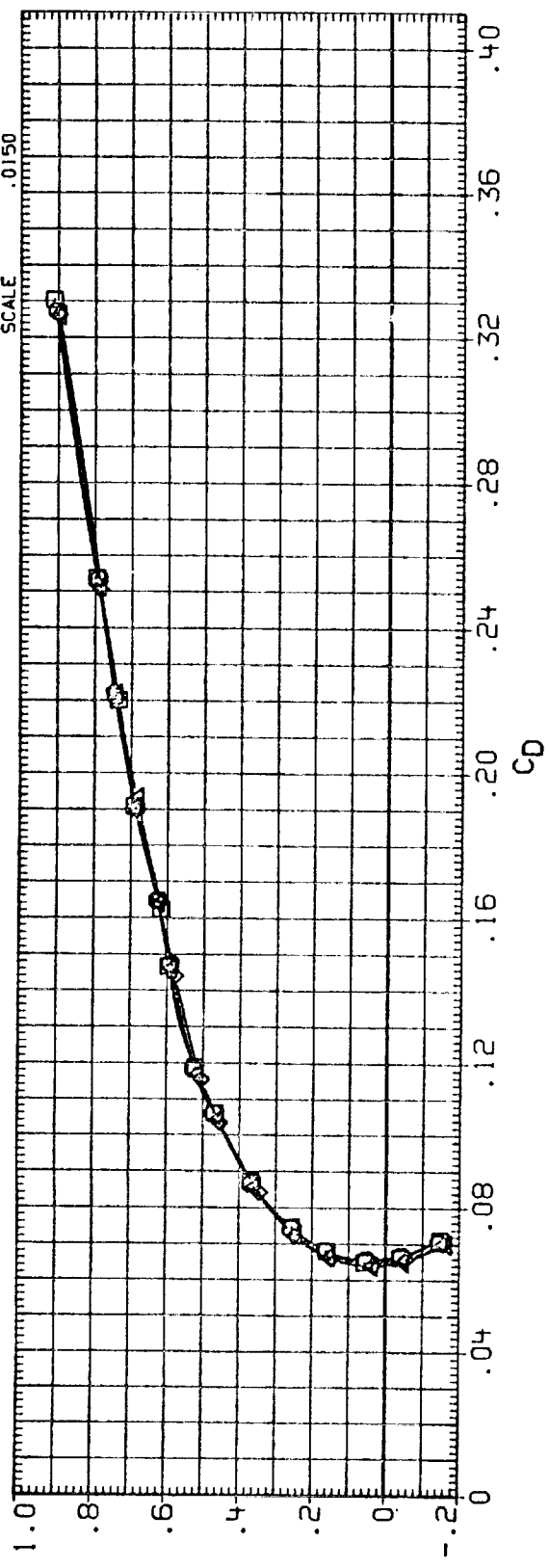


FIG. 14 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 3.5

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|------|-------|--------|--------|-----------------------|
| (RUK019) | ○ | LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON) | .000 | 3.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK021) | □ | LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON) | .000 | 3.500 | .000 | 2.000 | LREF 474.8000 INCHES |
| (RUK027) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 3.500 | .000 | .000 | BREF 936.6800 IN. X0 |
| (RUK032) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 3.500 | .000 | 2.000 | X:RP 1076.7000 IN. Y0 |
| | | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | | SCALE .0150 |

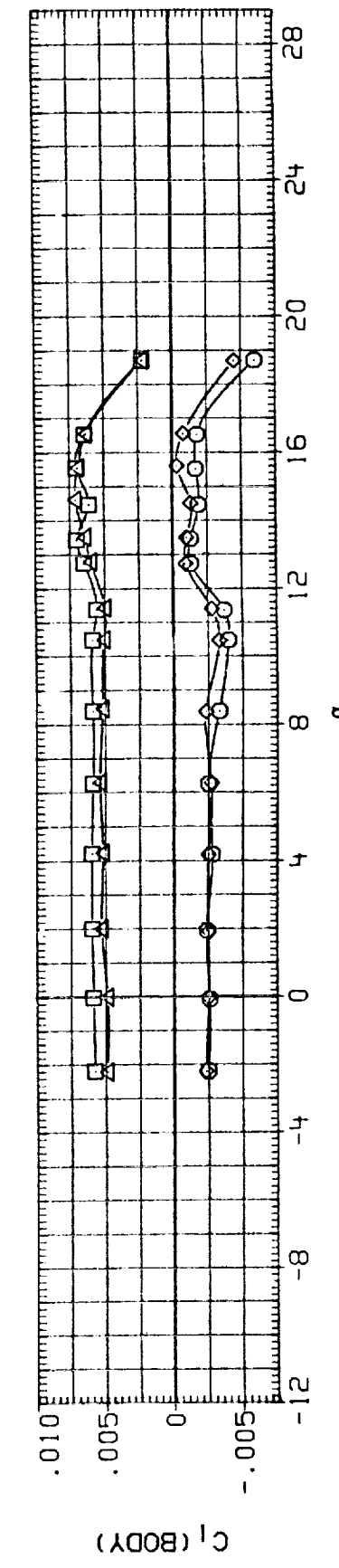
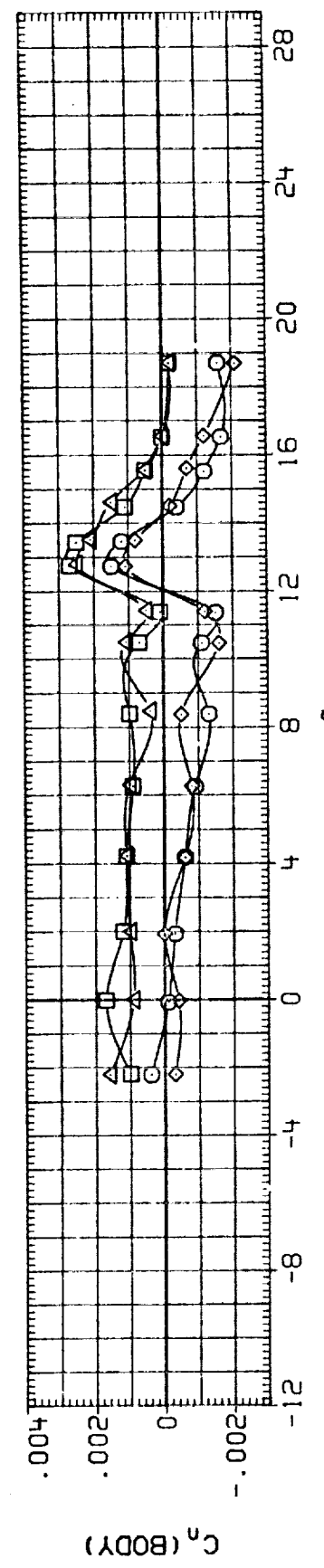
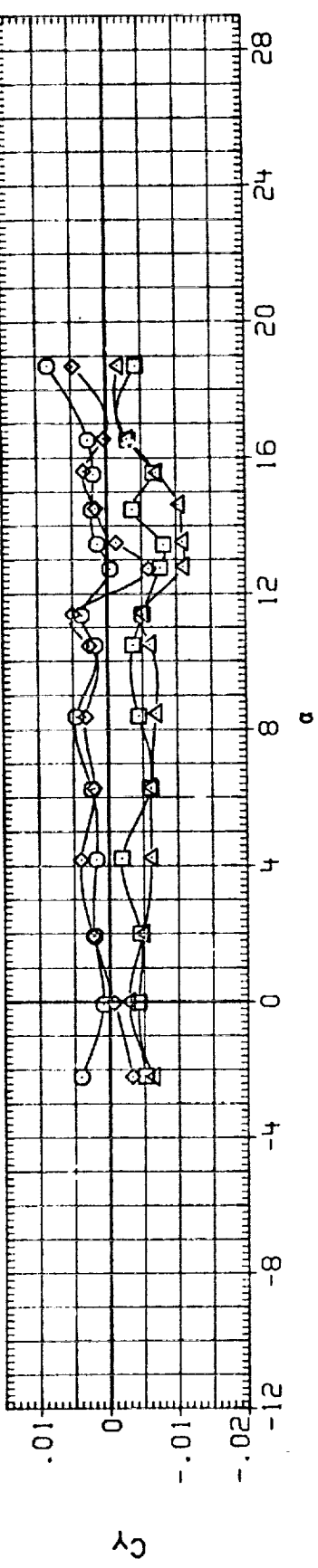


FIG. 14 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 3.5

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|------|-------|--------|--------|------------------------|
| (CUK019) | □ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 3.500 | .000 | .000 | SREF 2690.0000 SQ. FT. |
| (CUK021) | ○ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 3.500 | .000 | 2.000 | LREF 474.8000 INCHES |
| (CUK027) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 3.500 | .000 | .000 | BREF 936.6800 INCHES |
| (SUK032) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 3.500 | .000 | 2.000 | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

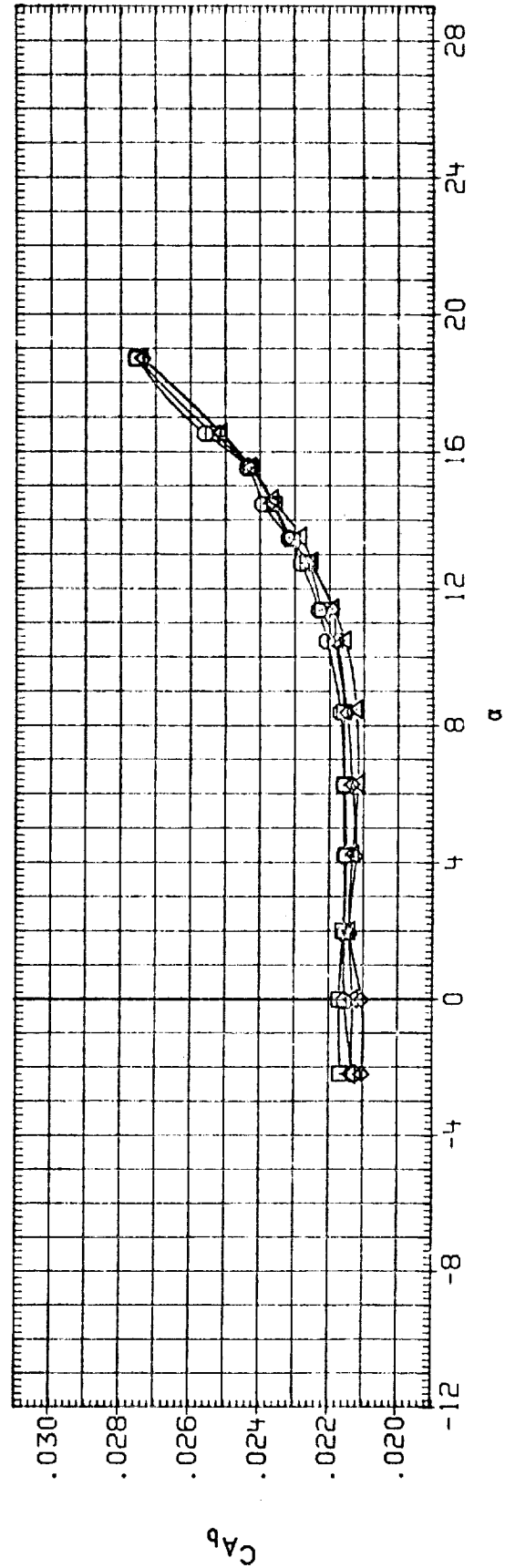
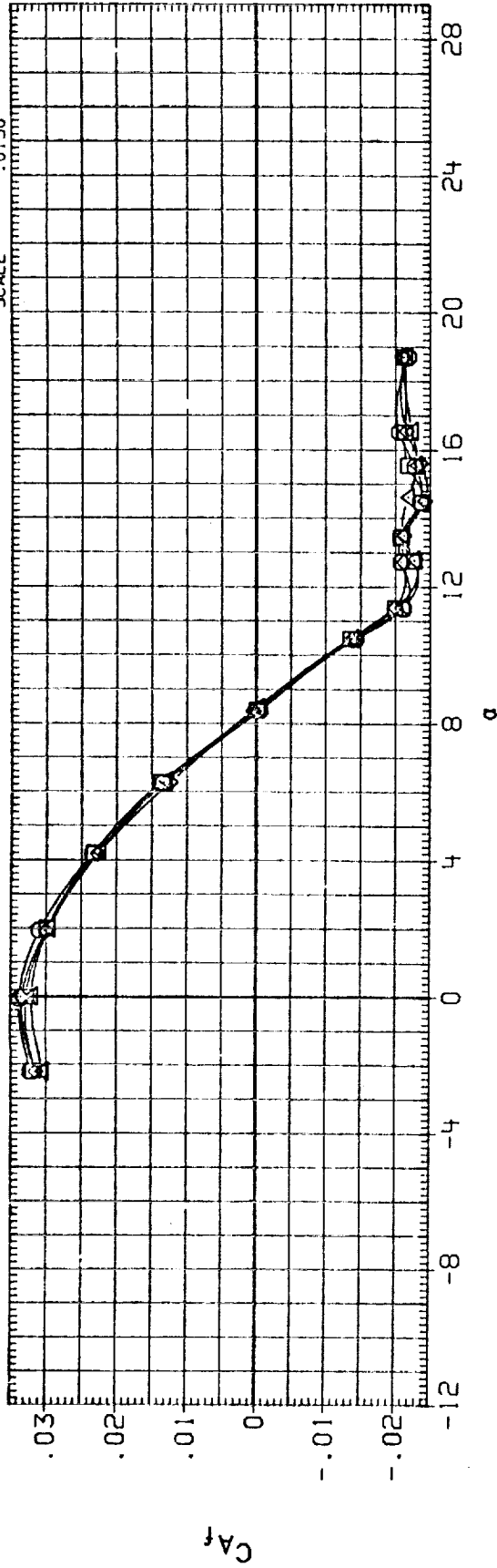
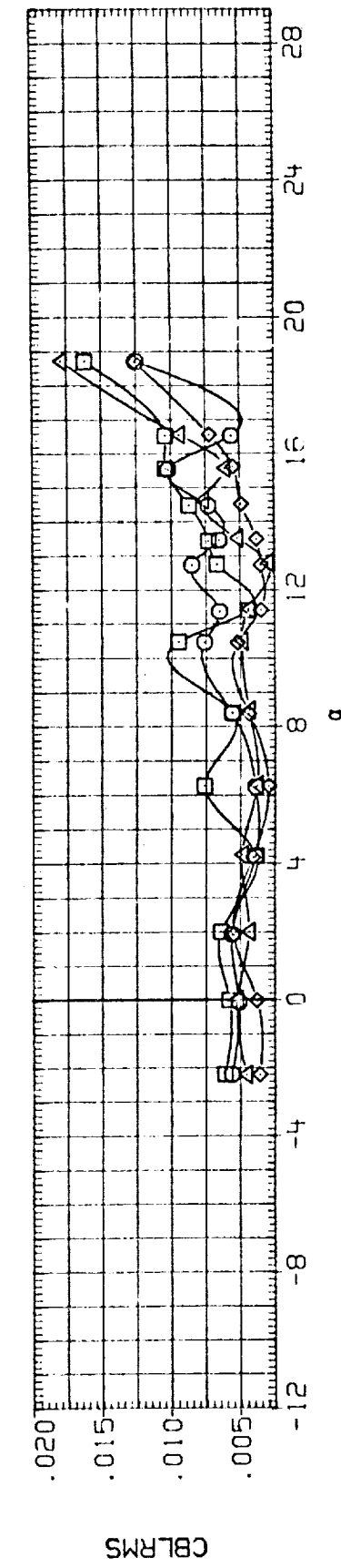
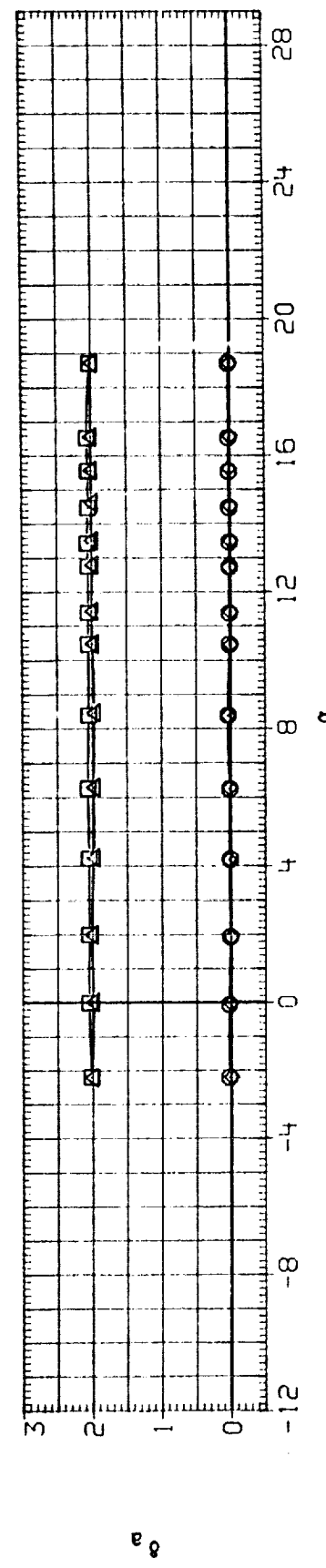
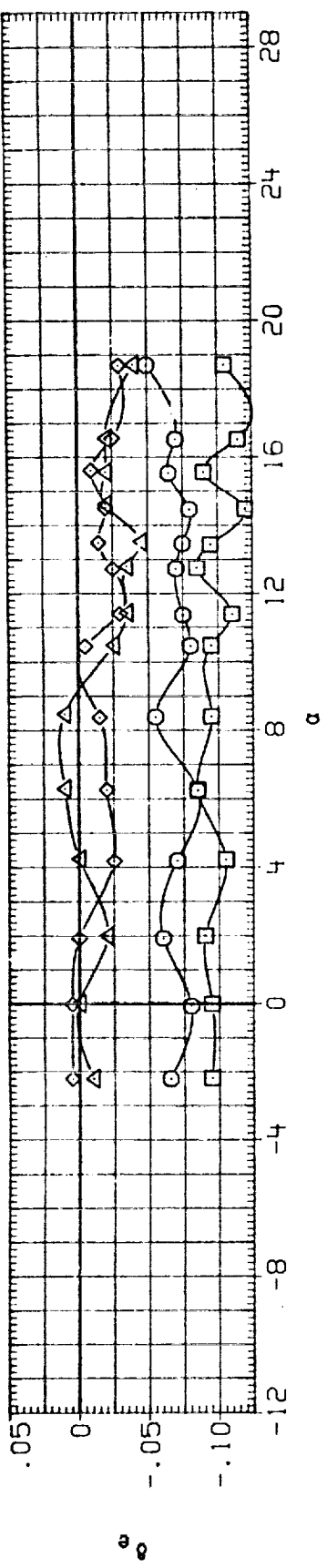


FIG. 14 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 3.5

| | | | | | | |
|-----------------|---|------|-------|--------|--------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
| (CUK019) | LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON) | .000 | 3.500 | .000 | .000 | SREF 2690.0000 SQ. FT. |
| (CUK021) | LA70 BASELINE OF LAGE3 (GAPS OPEN, GRIT ON) | .000 | 3.500 | .000 | 2.000 | LREF 474.8000 INCHES |
| (CUK027) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 3.500 | .000 | .000 | BREF 936.6800 INCHES |
| (CUK032) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 3.500 | .000 | 2.000 | YMRP 1076.7000 IN. XO |
| | | | | | | ZMRP .0000 IN. YO |
| | | | | | | SCALE .0150 |



LA70 DATA PLOTS

(A)MACH = .60

DATA SET SYMBOL

CONFIGURATION DESCRIPTION

(RUK020) LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (RUK022) LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (RUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK033) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA
 .000
 .000
 .000
 .000

ELEVON
 .000
 .000
 .000
 .000

AILRON
 .000
 2.000
 .000
 2.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0

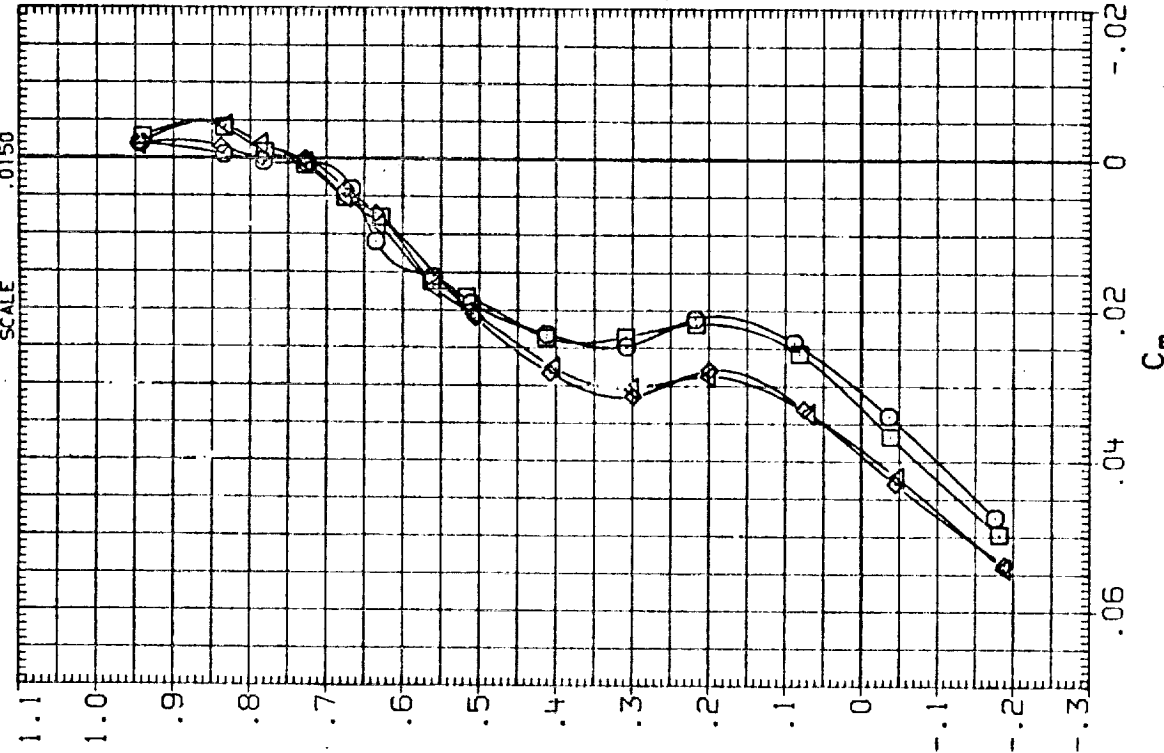
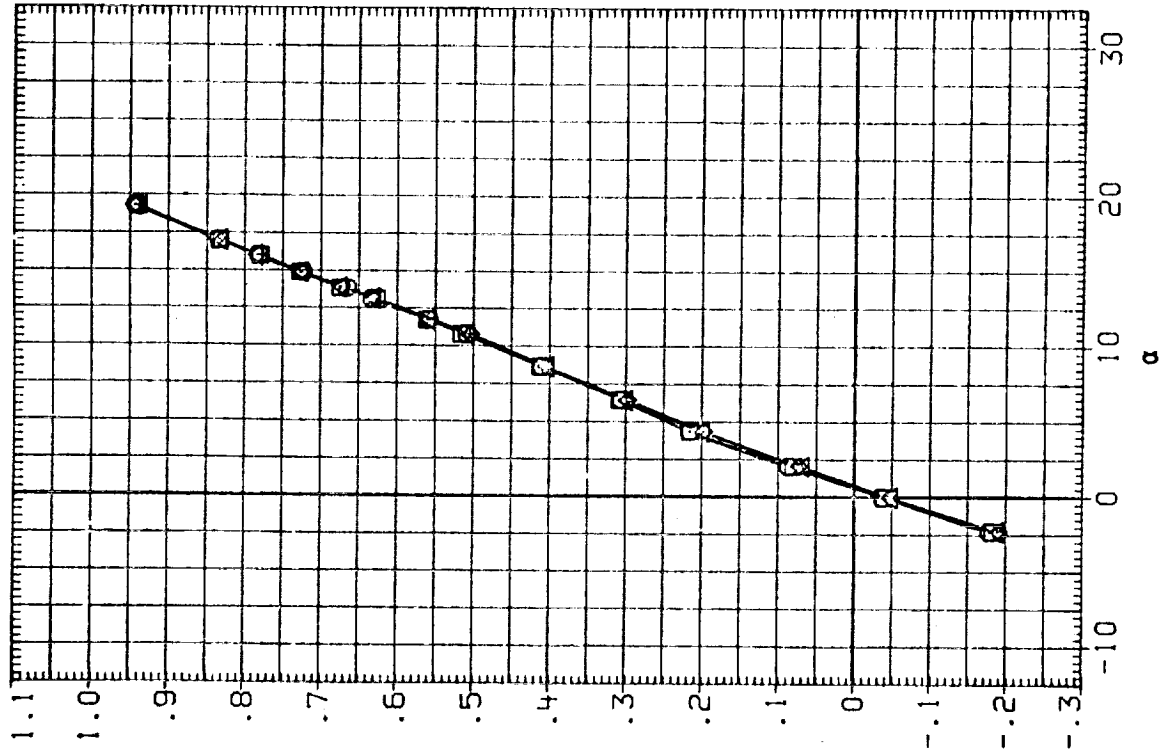


FIG. 15 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

DATA SET SYMBOL CONFIGURATION DESCRIPTION

○ LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
 □ LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
 ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000
 RN/L 4.500
 ELEVON .000
 AIRLON .000

BETA .000
 RN/L 4.500
 ELEVON .000
 AIRLON 2.000

BETA .000
 RN/L 4.500
 ELEVON .000
 AIRLON 2.000

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0

SCALE 0150

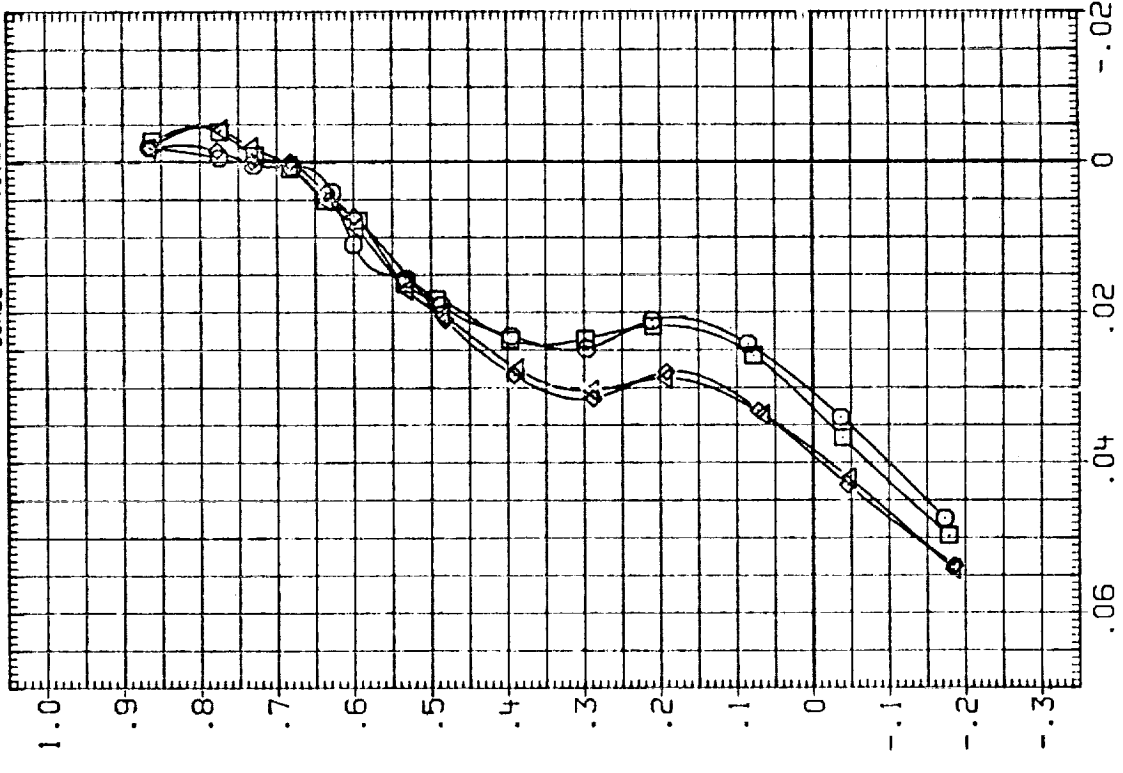
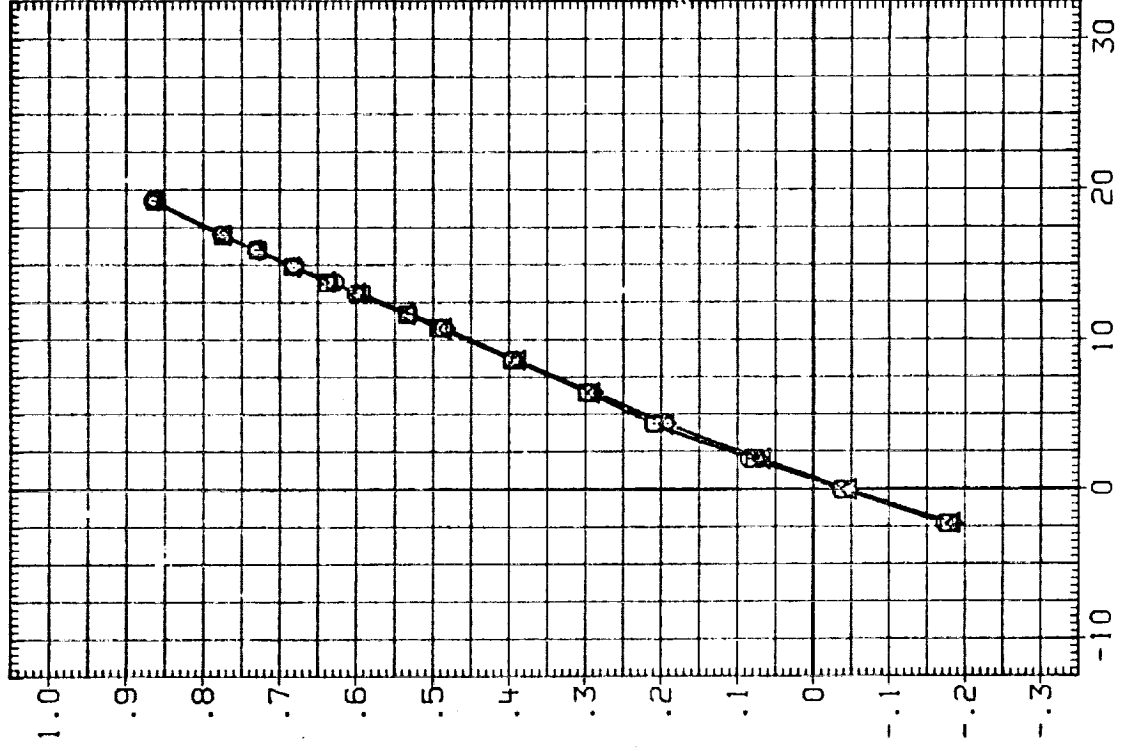


FIG. 15 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

(A) MACH = .90

DATA SET SYMBOL

CONFIGURATION DESCRIPTION

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000
 .000
 .000
 .000

RN/L 4.500
 4.500
 4.500
 4.500

ELEVON .000
 .000
 .000
 .000

AILRON .000
 2.000
 .000
 2.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 EREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

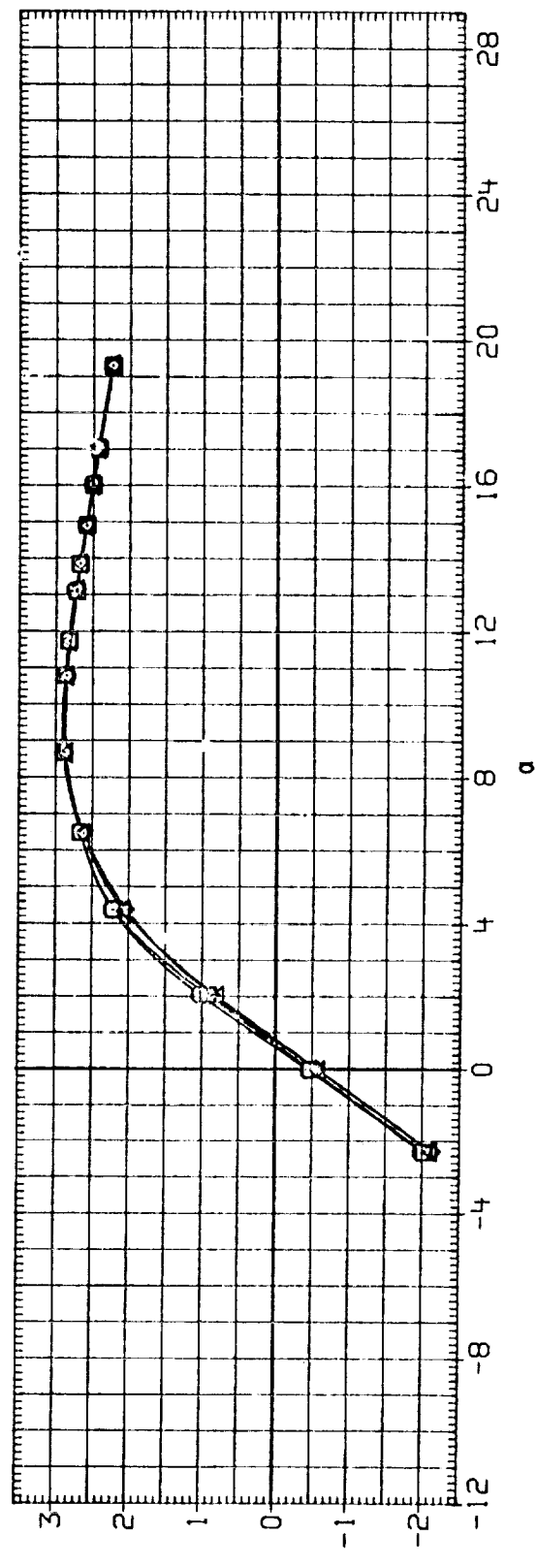
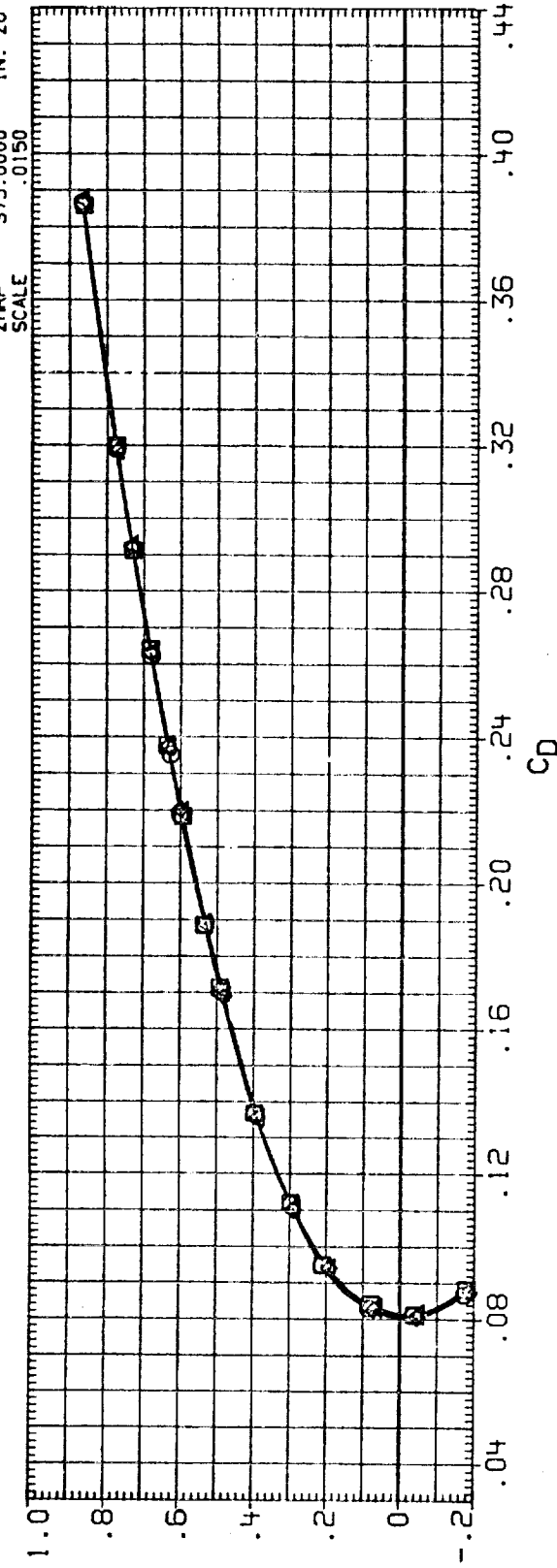


FIG. 15 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 4.5

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK020) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK022) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK028) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK033) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIRLON

.000 .500 .000 .000

.000 4.500 .000 2.000

.000 .000 .000 .000

.000 4.500 .000 2.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRRP 1076.7000 IN. XO

YMRRP .0000 IN. YO

ZMRRP 375.0000 IN. ZO

SCALE .0150

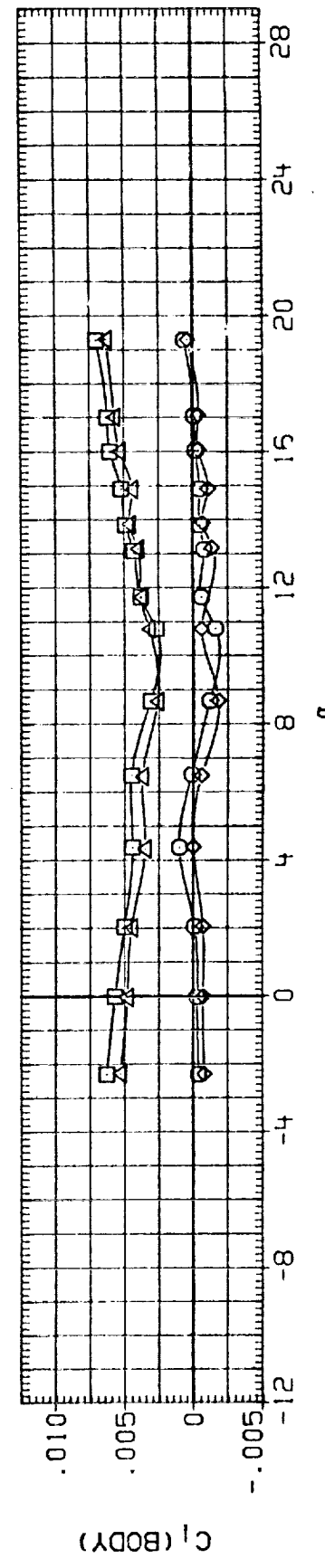
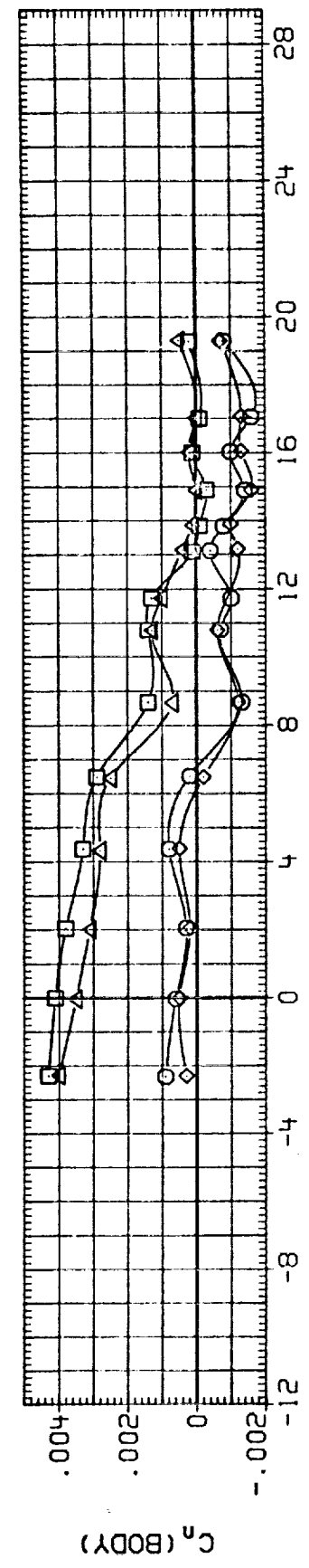
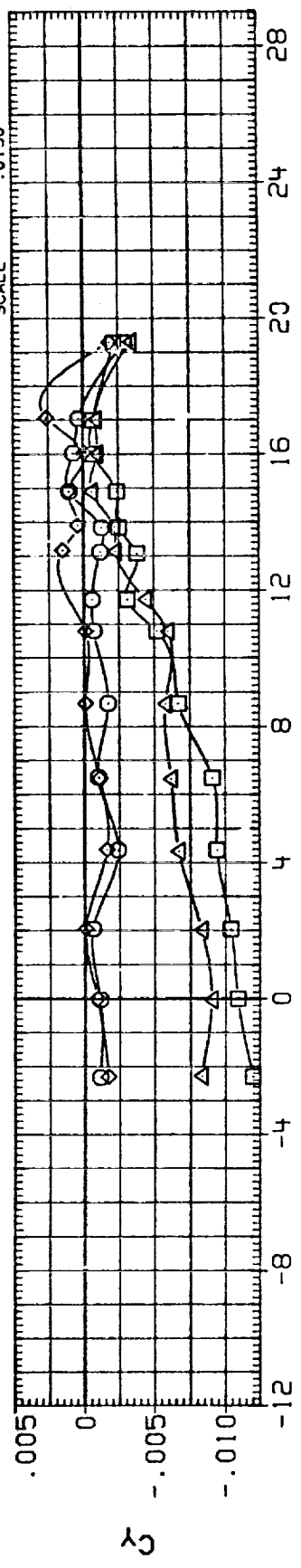


FIG. 15 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK020) □ LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)

(CUK022) ○ LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)

(CUK028) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK033) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000 .000 .000 .000

RN/L 4.500 4.500 4.500 4.500

ELEVON .000 .000 .000 .000

AILRON .000 2.000 .000 2.000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

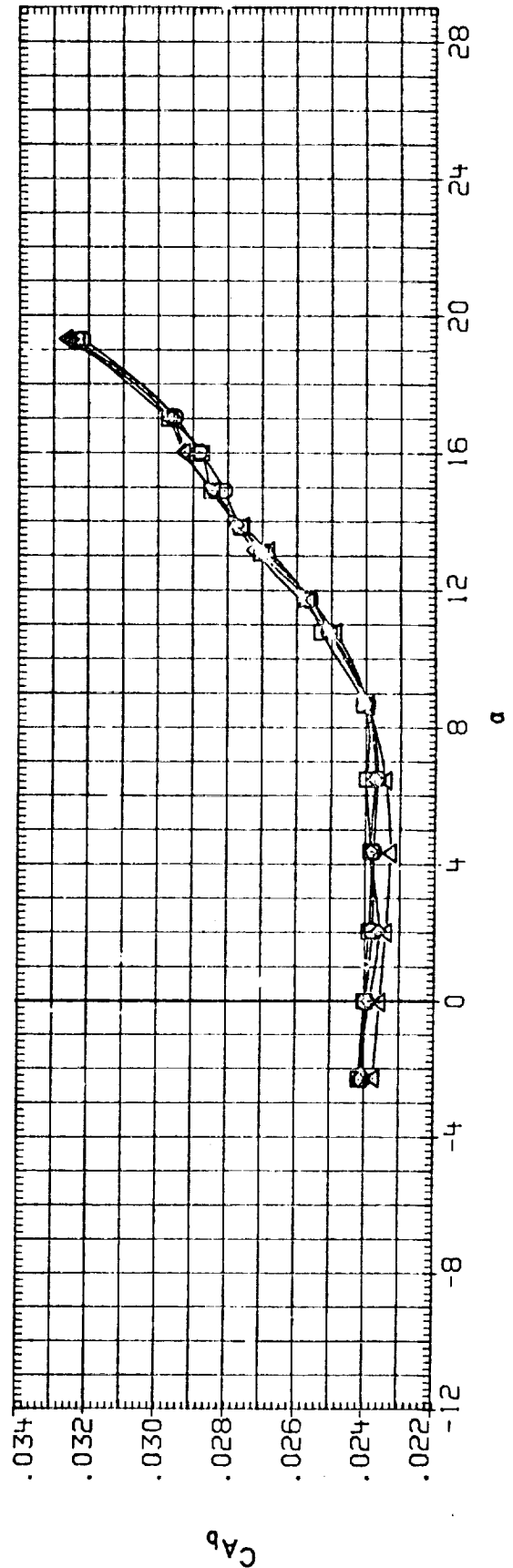
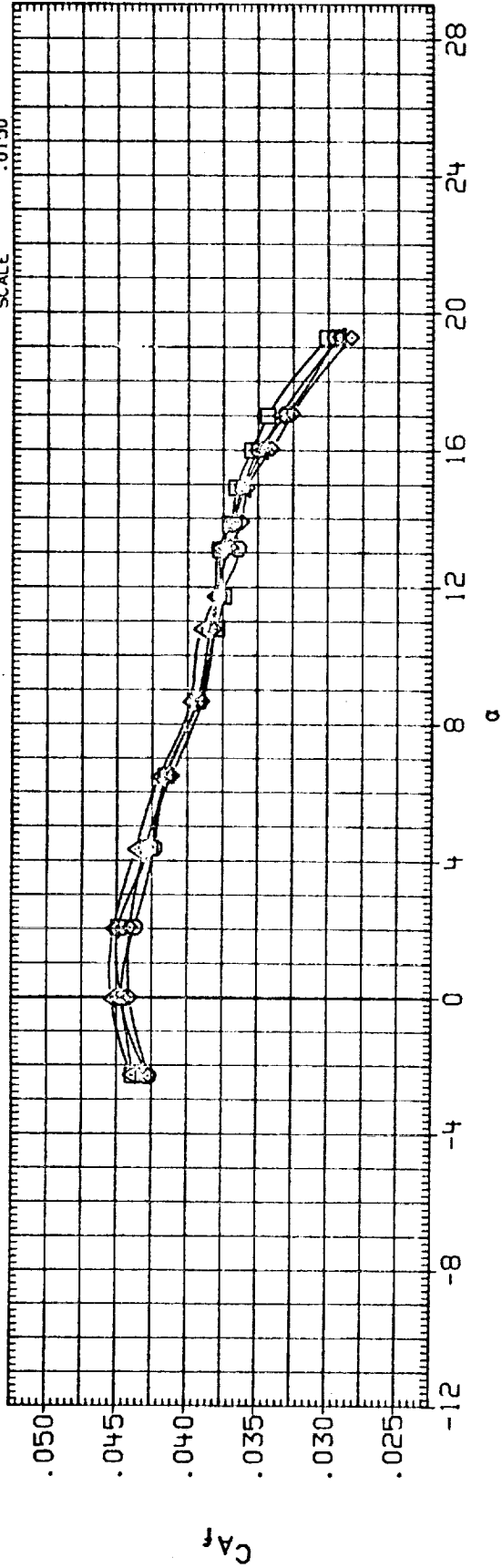


FIG. 15 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

| | | | | | | |
|------------------------|--|-------------|-------------|---------------|---------------|------------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (CUK020) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (CUK021) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 4.500 | .000 | 2.000 | LREF 474.8000 INCHES |
| (CUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (CUK033) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | 2.000 | X-TRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

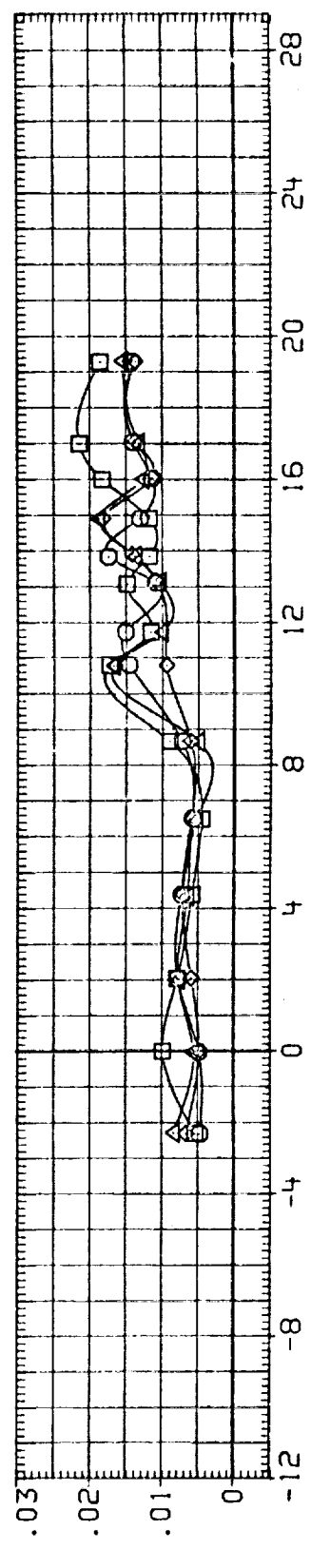
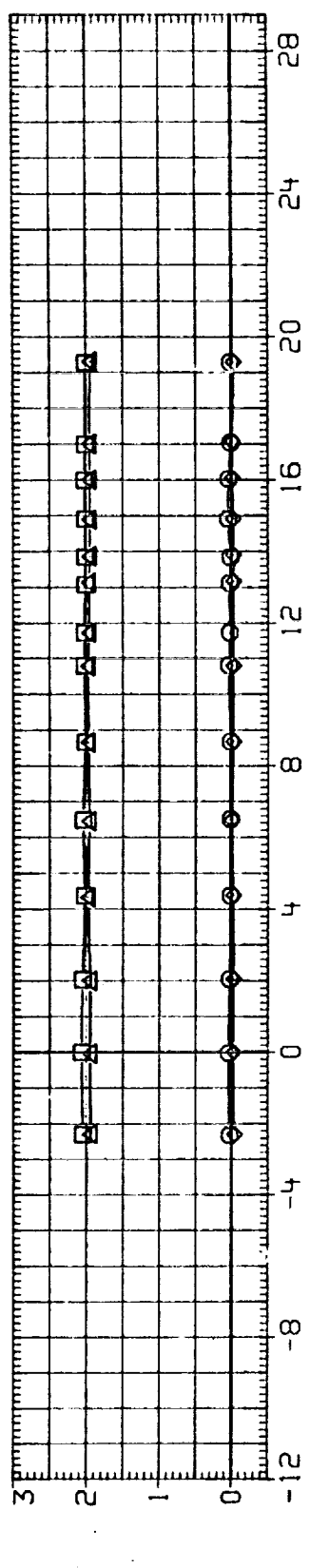
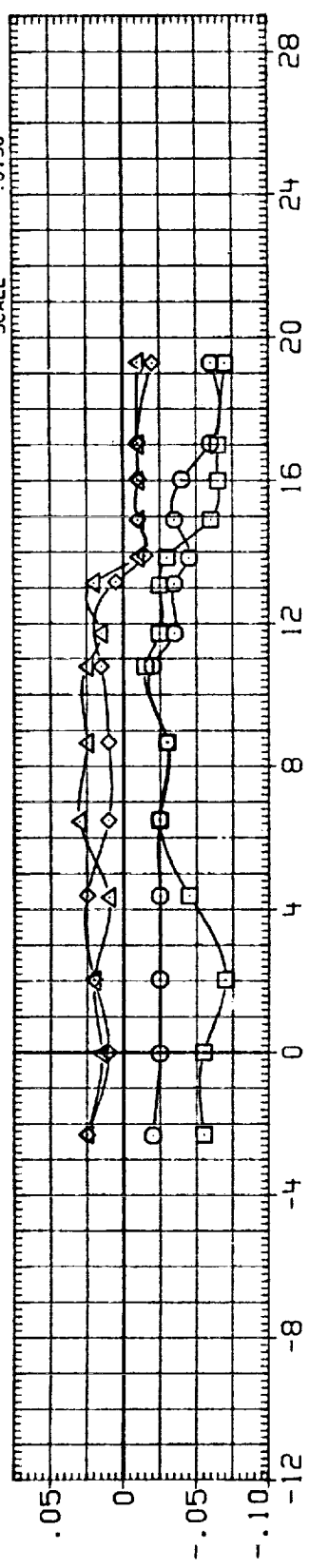


FIG. 15 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK023) LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)
 (RUK025) LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)
 (RUK035) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK039) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000
 .000
 .000
 .000

RN/L 3.500
 3.500
 3.500
 3.500

ELEVON 10.000
 10.000
 10.000
 10.000

AIRLON .000
 2.000
 .000
 2.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

SCALE .0150

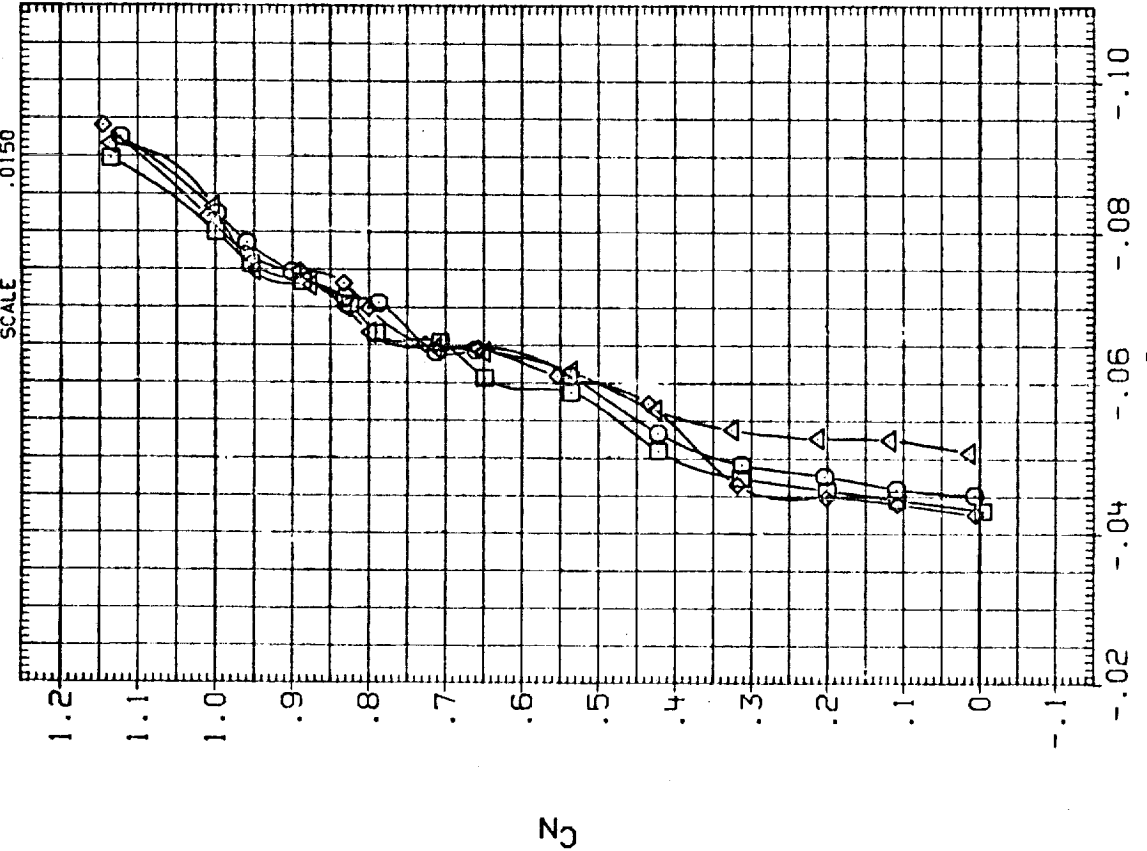
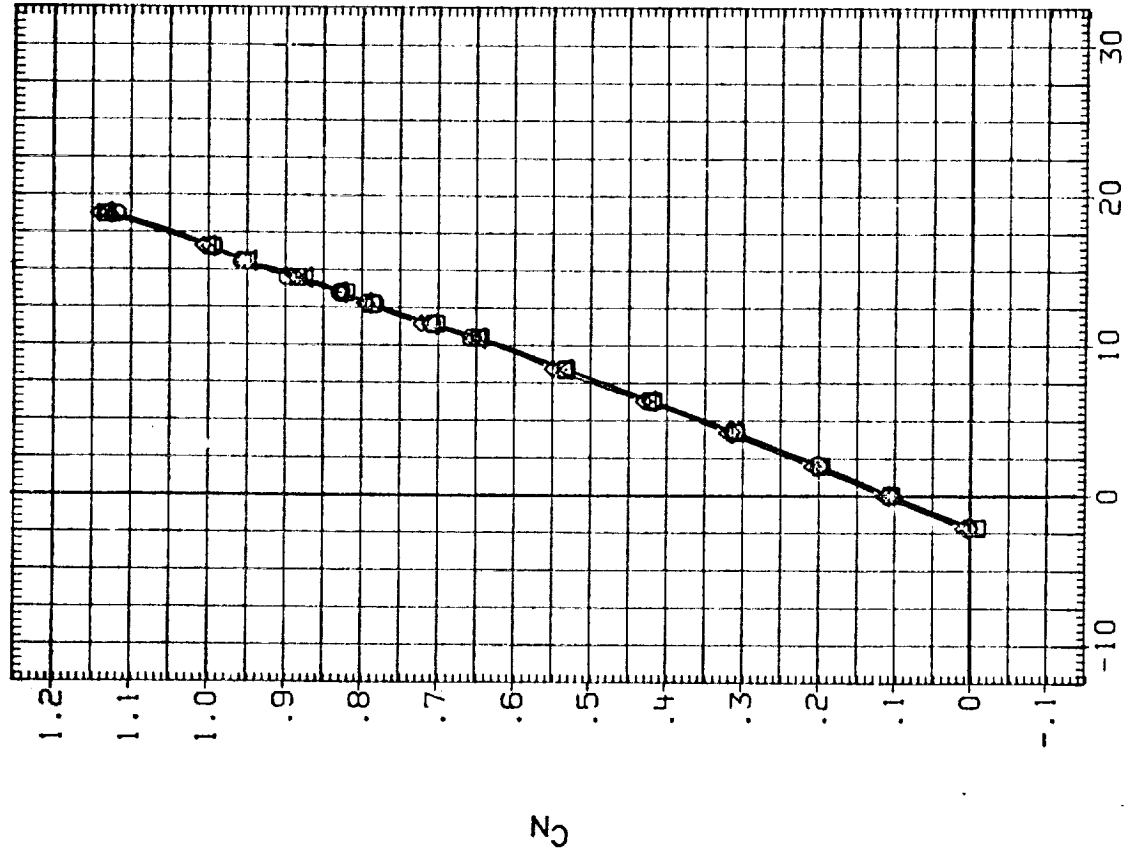


FIG. 16 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 3.5

(A)MACH = .60

BETA .000
 RN/L 3.500
 ELEVON 10.000
 AIRLON .000
 REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 X-IRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK023) O LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (RUK025) O LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (RUK035) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK039) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

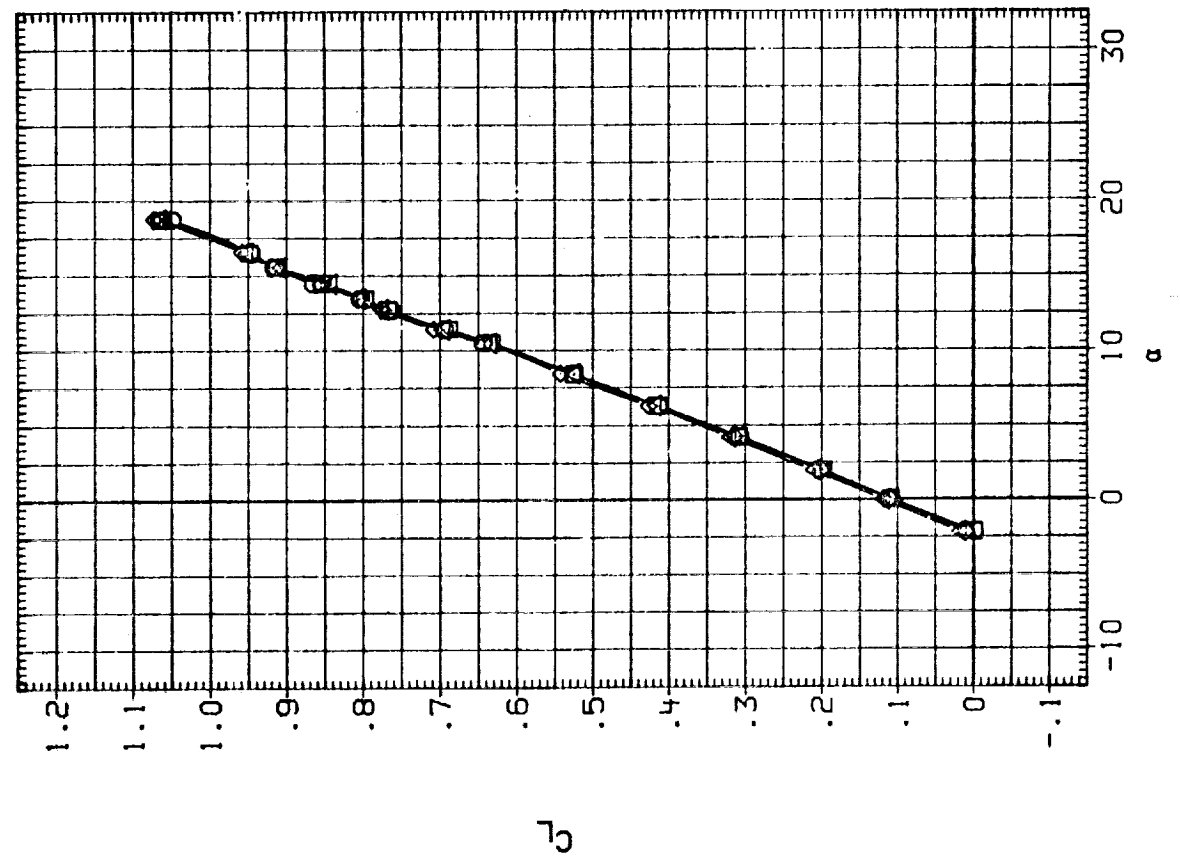
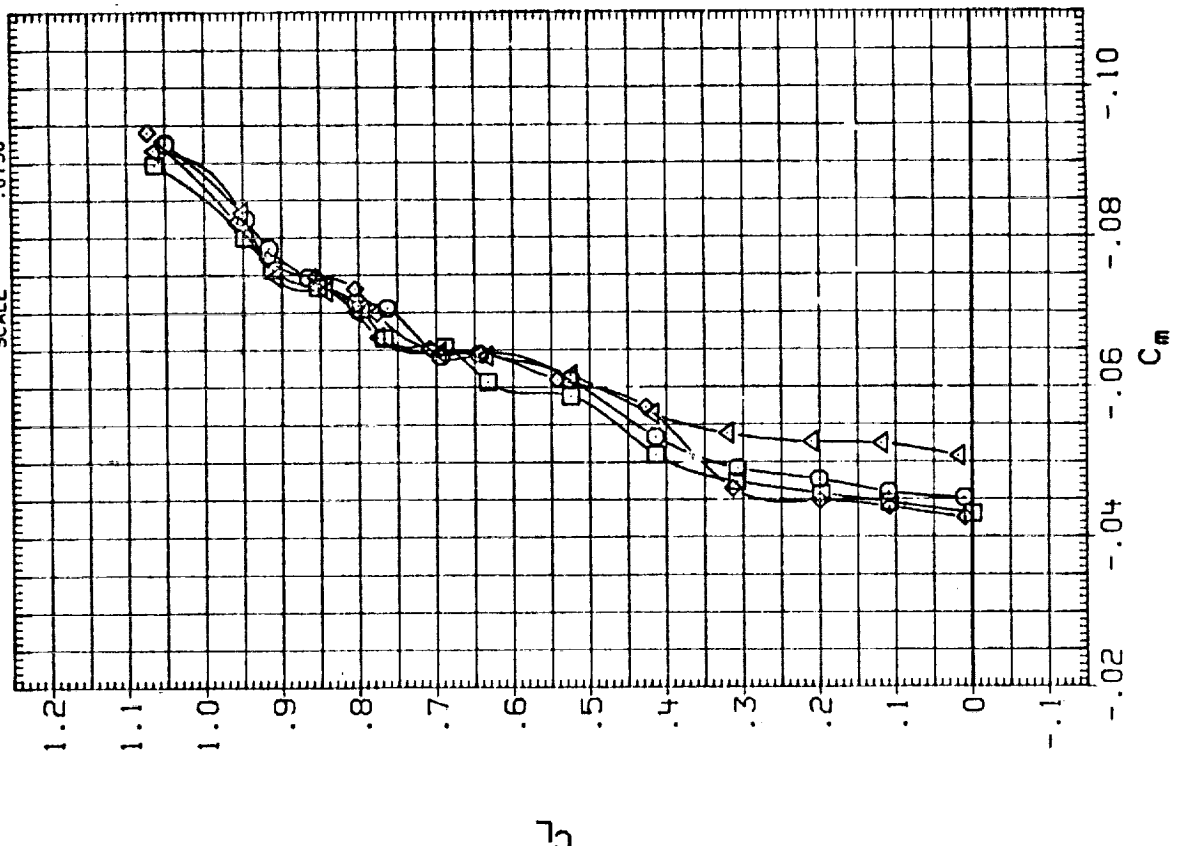


FIG. 16 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 3.5

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|------|-------|--------|--------|-----------------------|
| (RUK023) | ○ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 3.500 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK025) | □ | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 3.500 | 10.000 | 2.000 | LREF 474.8000 INCHES |
| (RUK035) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 3.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK039) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 3.500 | 10.000 | 2.000 | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

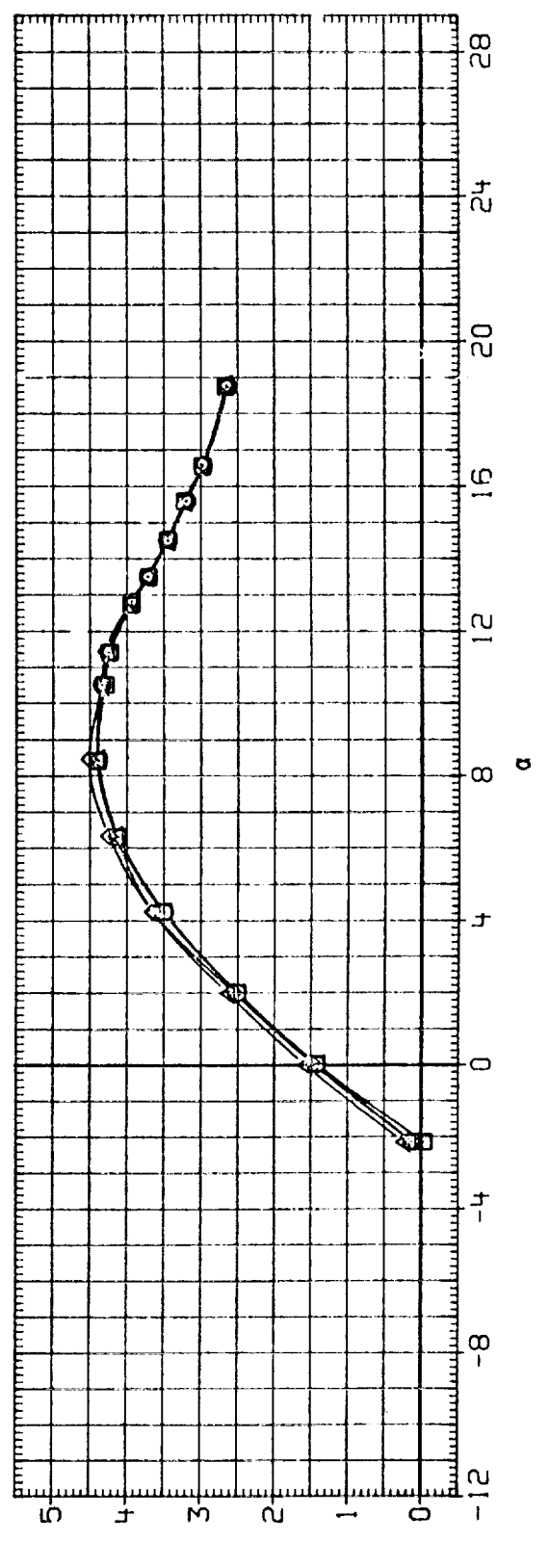
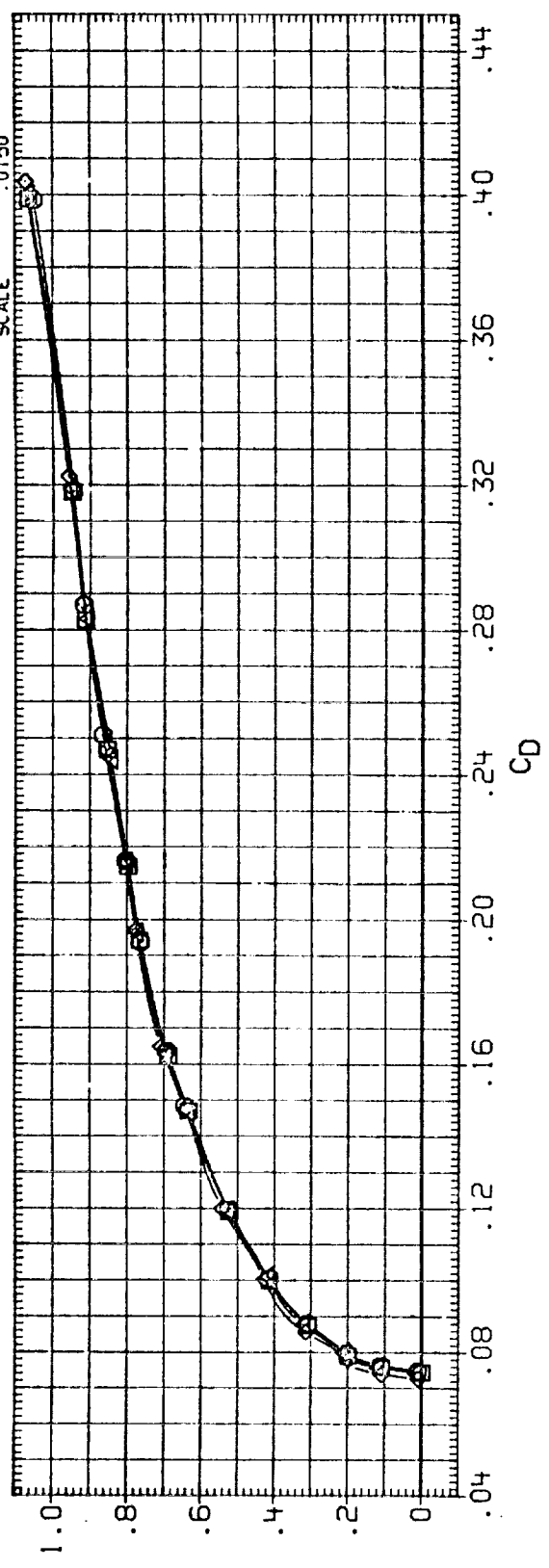


FIG. 16 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 3.5

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK023) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK025) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK035) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK039) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000

RN/L 3.500

ELEVON 10.000

AIRLON .000

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

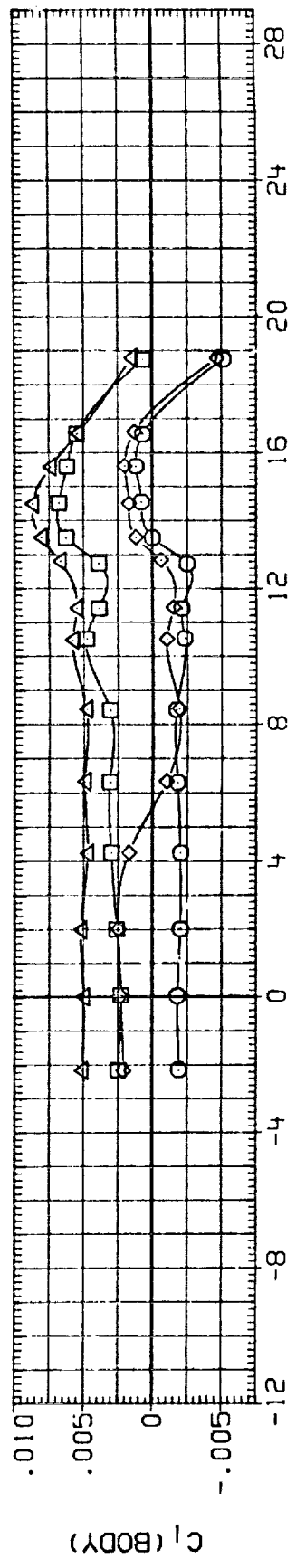
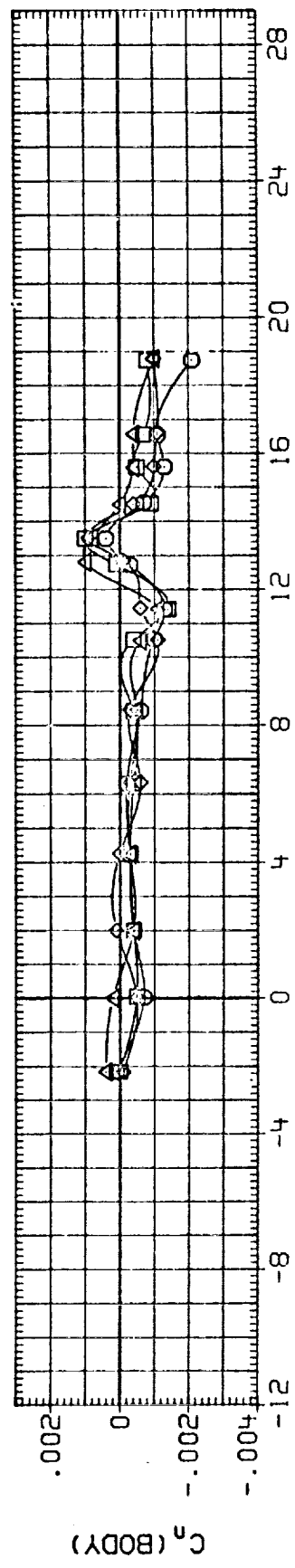
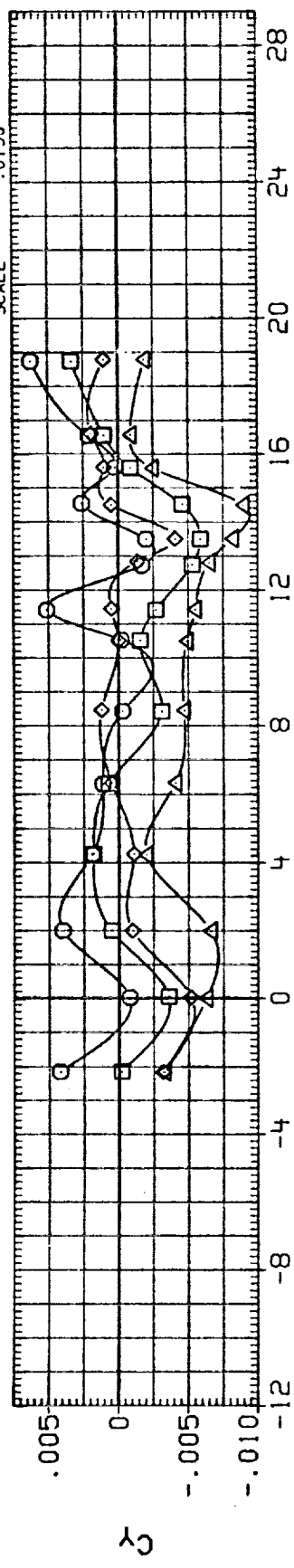


FIG. 16 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 3.5

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|-----------------|--|------|-------|--------|--------|------------------------|
| (CUK023) | LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON) | .000 | 3.500 | 10.000 | .000 | SREF 2690.0000 SO.FT. |
| (CUK025) | LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON) | .000 | 3.500 | 10.000 | 2.000 | LREF 474.8000 INCHES |
| (CUK035) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 3.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (CUK039) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 3.500 | 10.000 | 2.000 | X.FRP 1076.7000 IN. XO |
| | | | | | | Y.FRP .0000 IN. YO |
| | | | | | | Z.FRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

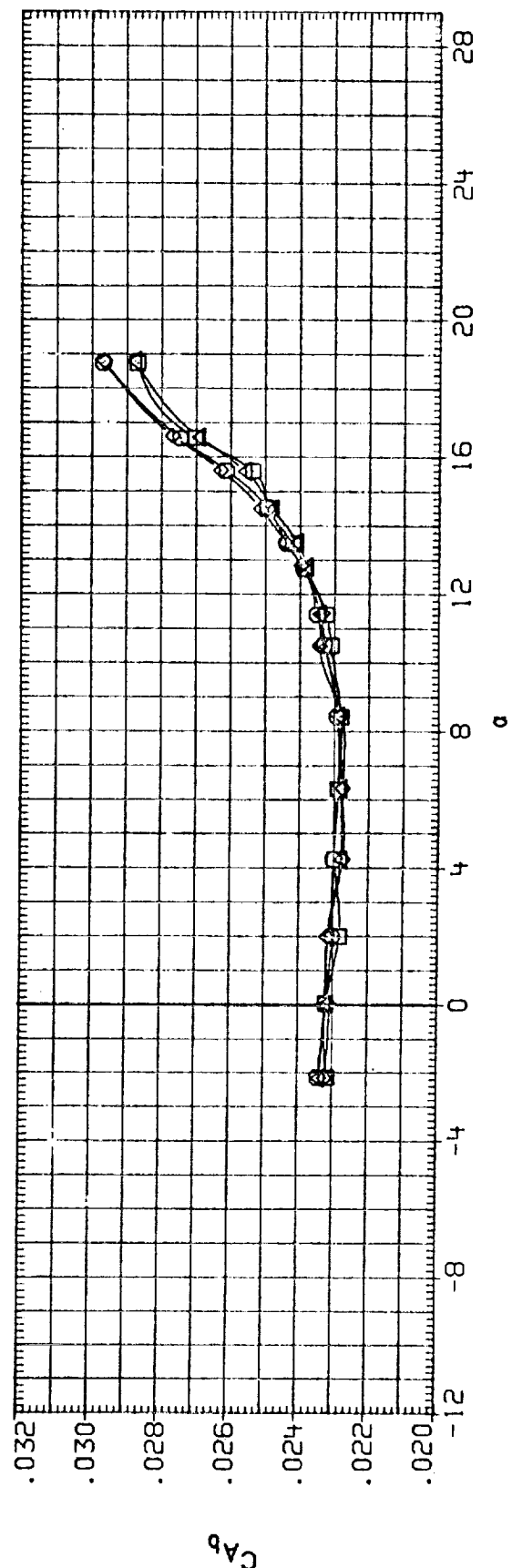
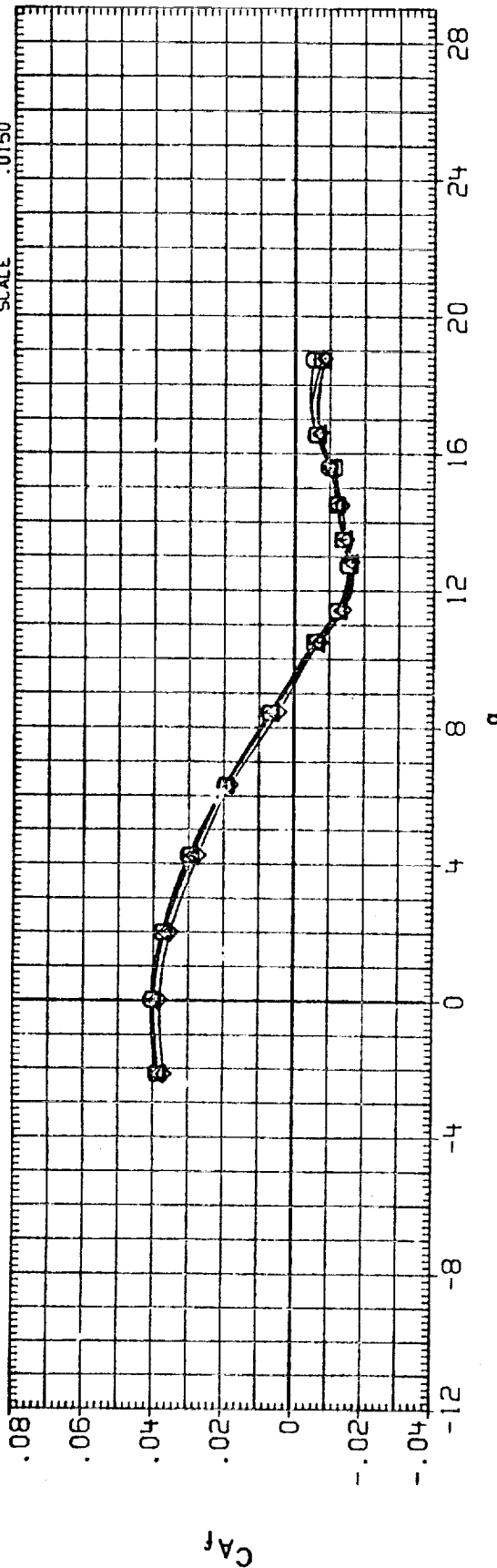


FIG. 16 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 3.5

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK023) L A70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)

(CUK025) L A70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)

(CUK035) L A70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK039) L A70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000

RN/L 3.500

ELEVON 10.000

AILRON .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

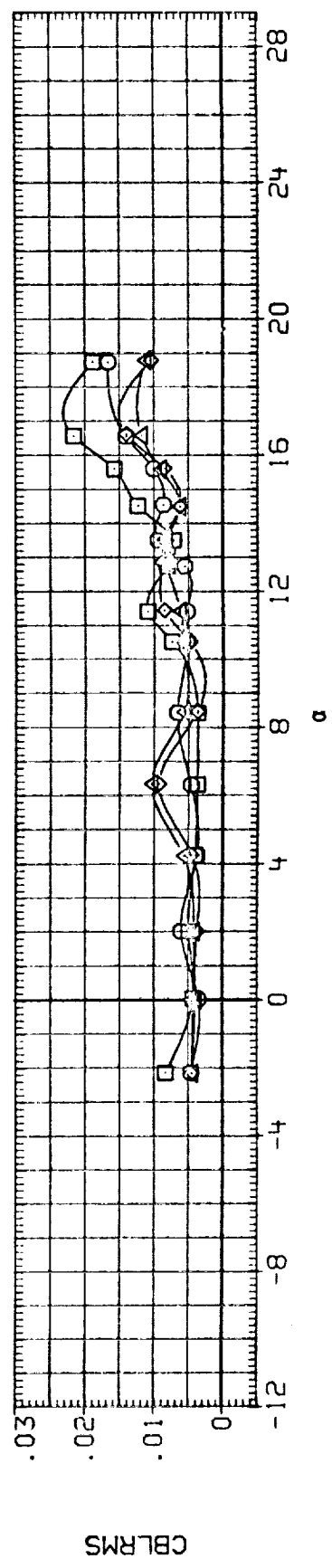
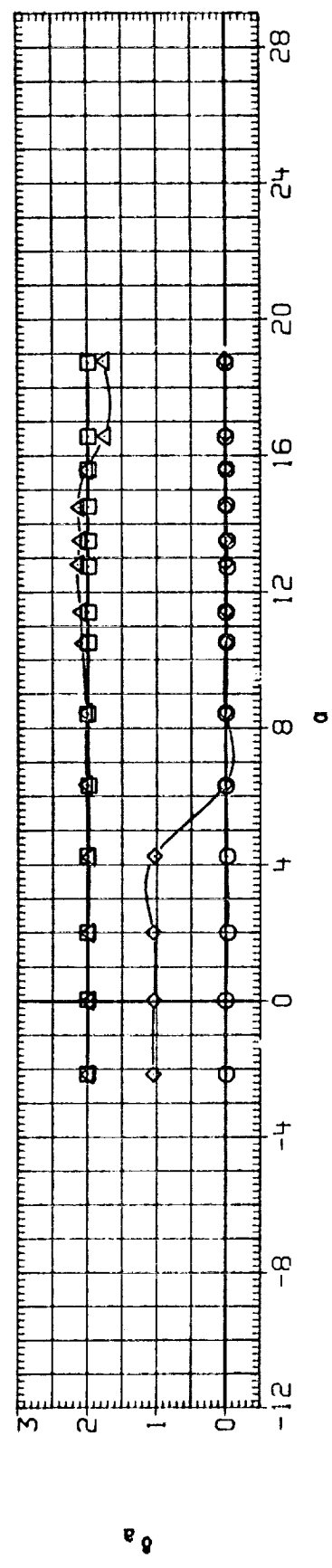
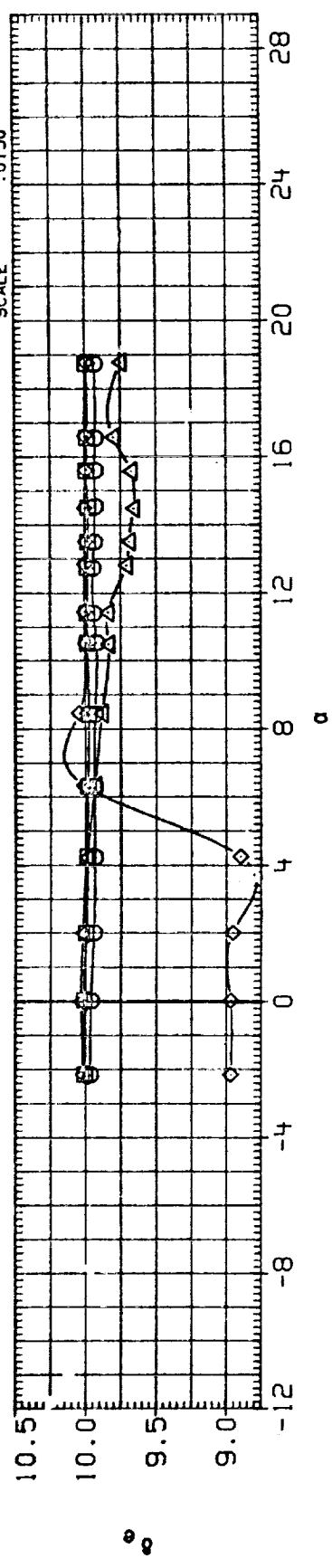


FIG. 16 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 3.5

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK024) □ LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
 (RUK026) ○ LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
 (RUK036) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK040) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AILIRON
 .000 4.500 10.000 .000
 .000 4.500 10.000 2.000
 .000 4.500 10.000 .000
 .000 4.500 10.000 2.000

REFERENCE INFORMATION SQ.FT. INCHES
 SREF 2690.0000 474.8000
 LREF 474.8000 936.6800
 BREF 936.6800 1076.7000
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

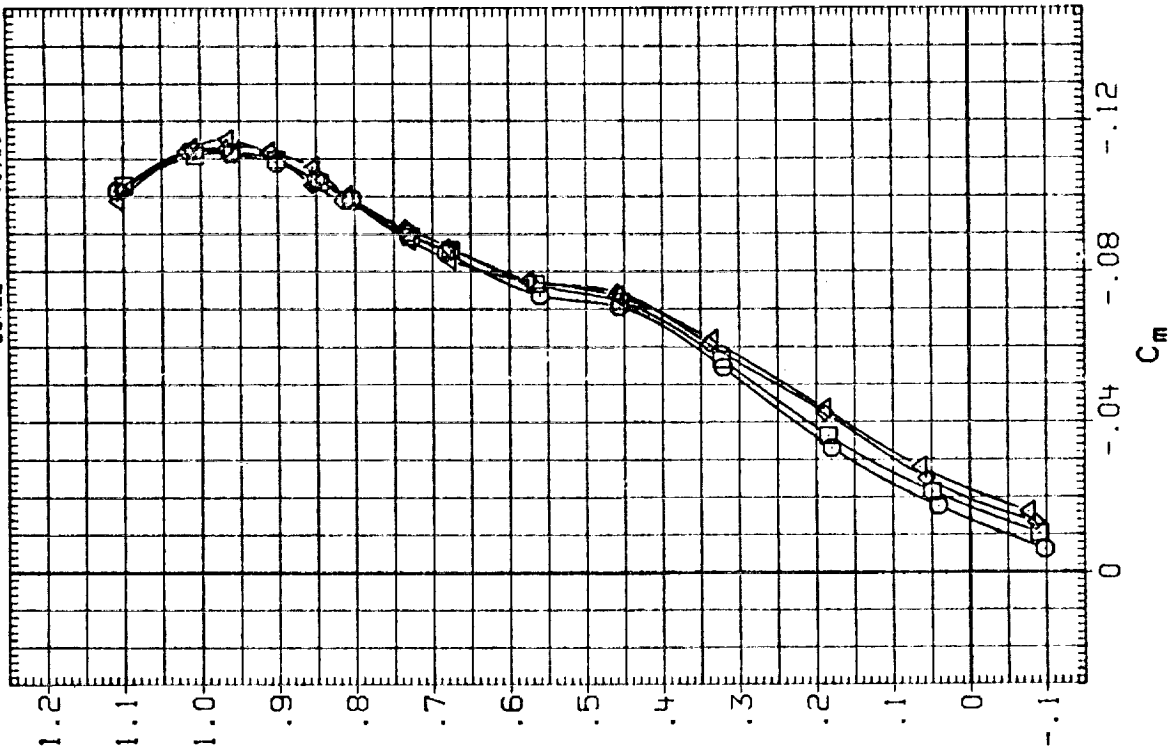
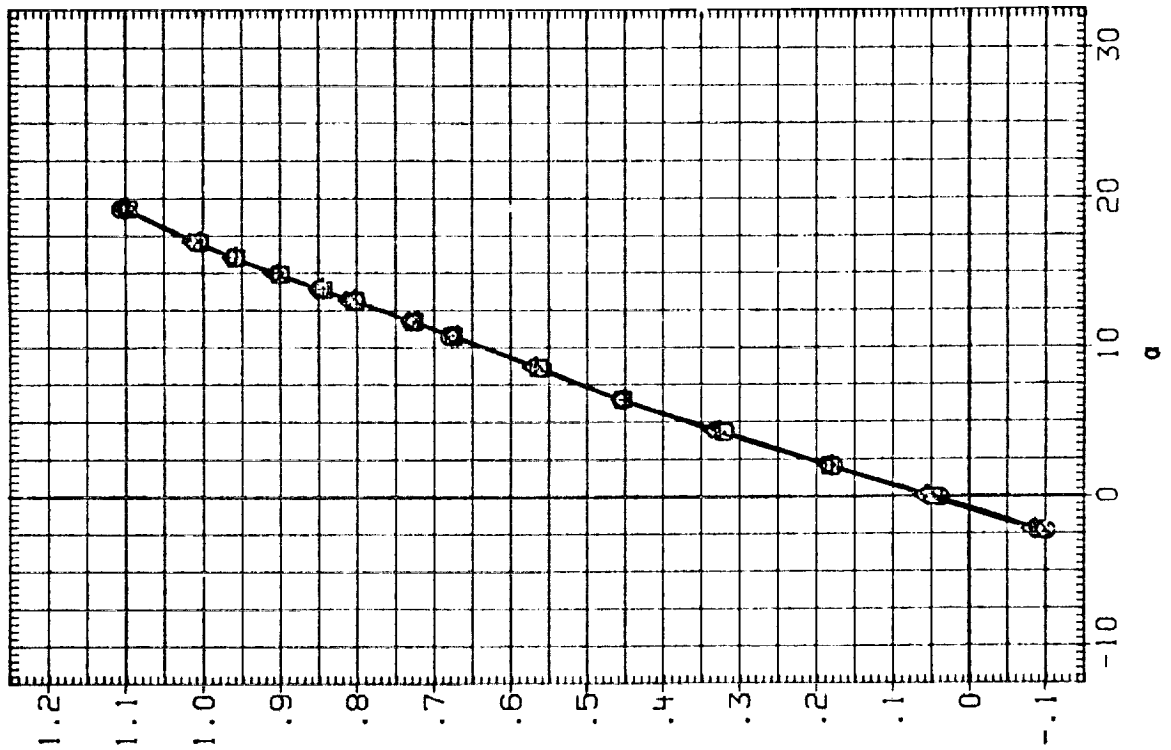


FIG. 17 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

REFERENCE INFORMATION
 SREF 2690.0000 SO. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

BETA .000
 RM/L 4.500
 ELEVON 10.000
 AIRLON .000
 2.000
 2.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK024) LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (RUK026) LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
 (RUK038) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK040) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

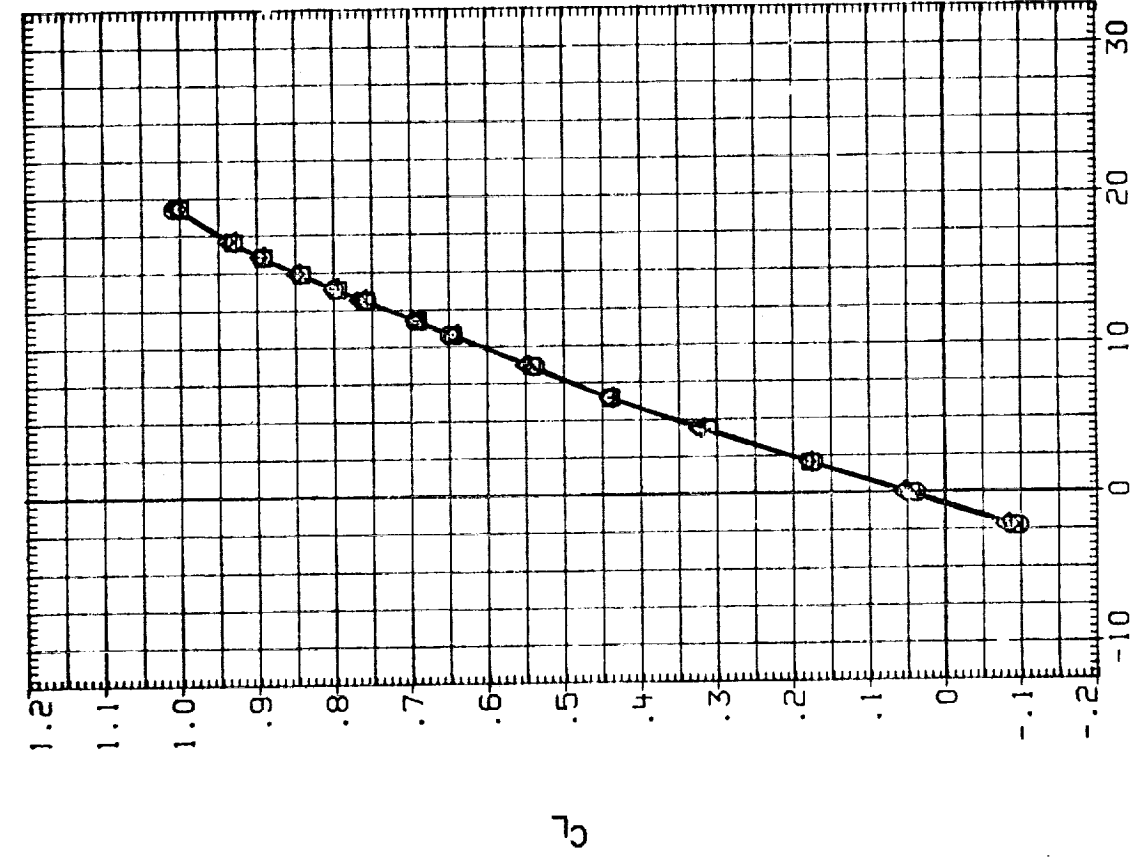
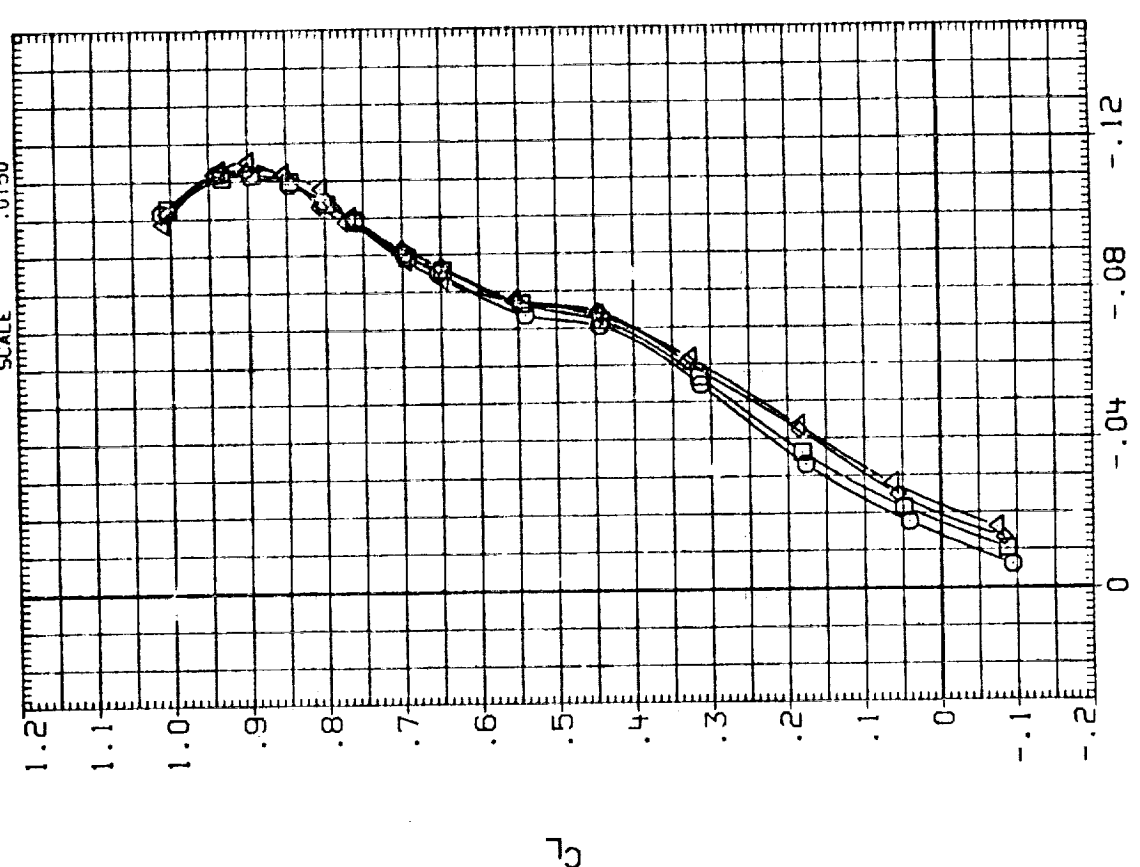


FIG. 17 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 4.5

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|----------|--------|--|------|-------|--------|--------|-----------------------|
| (RUK024) | ○ | LAT0 BASELINE OF LAB2 (GAPS OPEN, GRIT ON) | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK026) | □ | LAT0 BASELINE OF LAB2 (GAPS OPEN, GRIT ON) | .000 | 4.500 | 10.000 | 2.000 | LREF 474.8000 INCHES |
| (RUK036) | ◇ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK040) | △ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | 2.000 | XMRP 1076.7000 IN. YO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

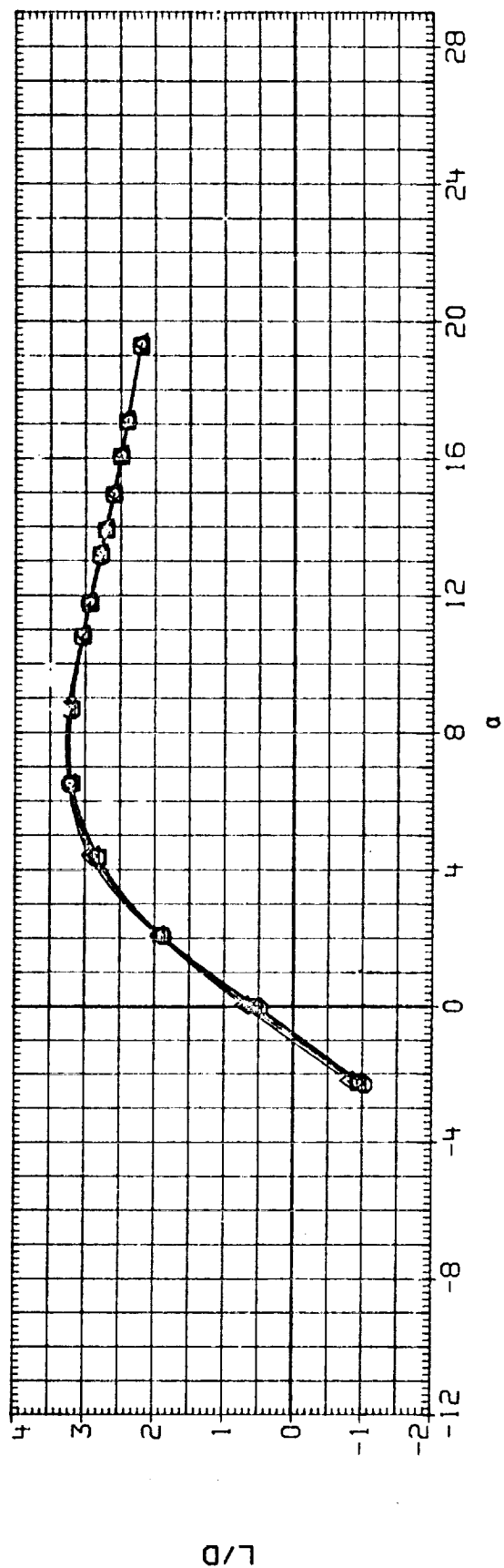
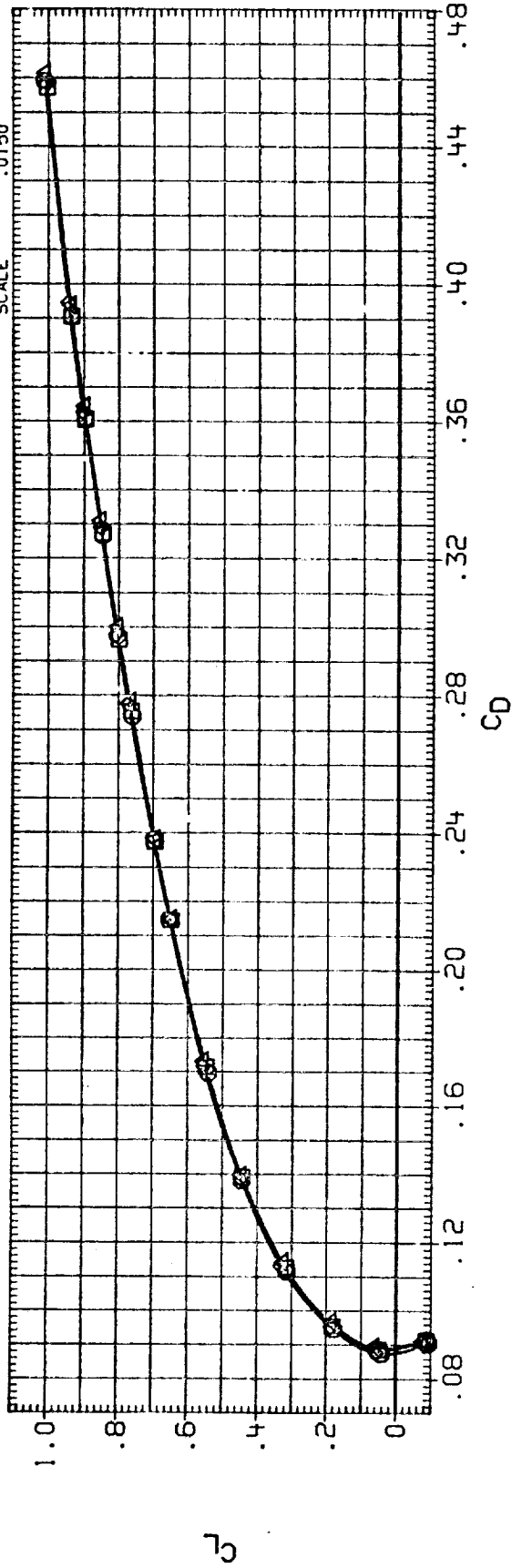


FIG. 17 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILERON | REFERENCE INFORMATION |
|-----------------|--|------|-------|--------|---------|-----------------------|
| (RUK024) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK026) | LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) | .000 | 4.500 | 10.000 | 2.000 | LREF 474.8000 INCHES |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | BREF 936.5800 INCHES |
| (RUK040) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | 2.000 | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

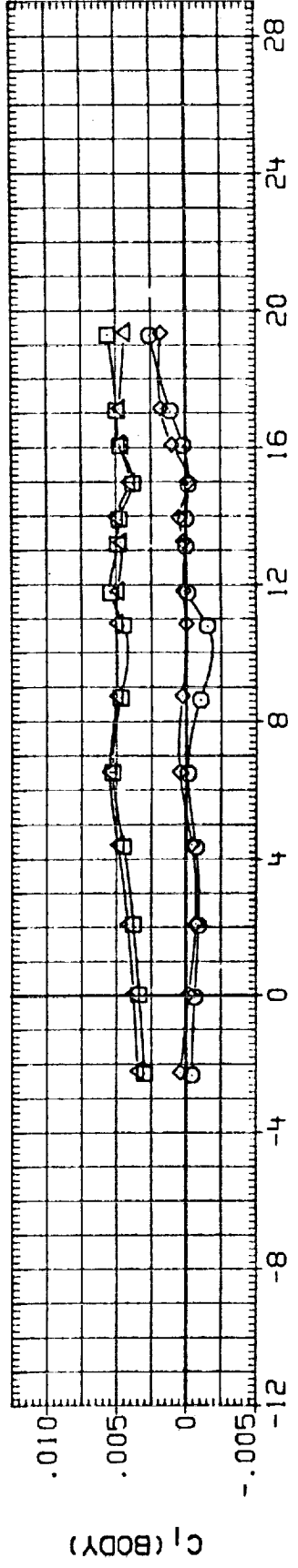
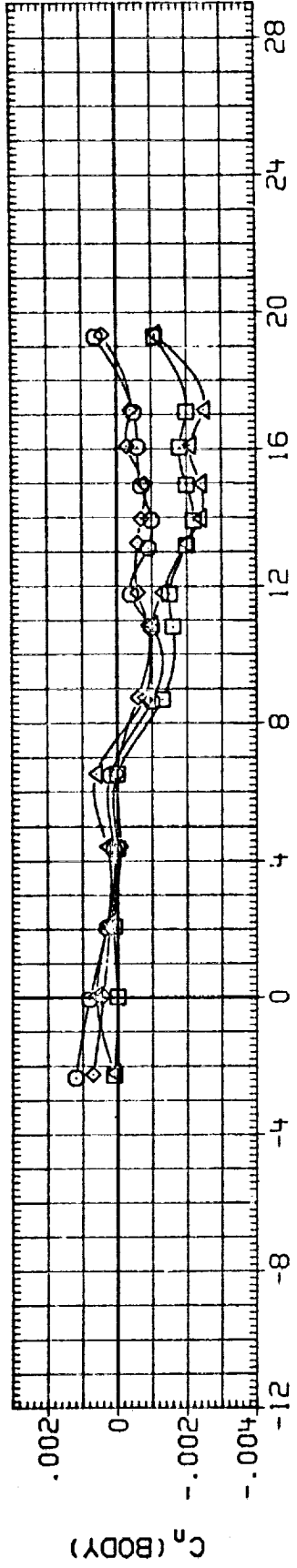
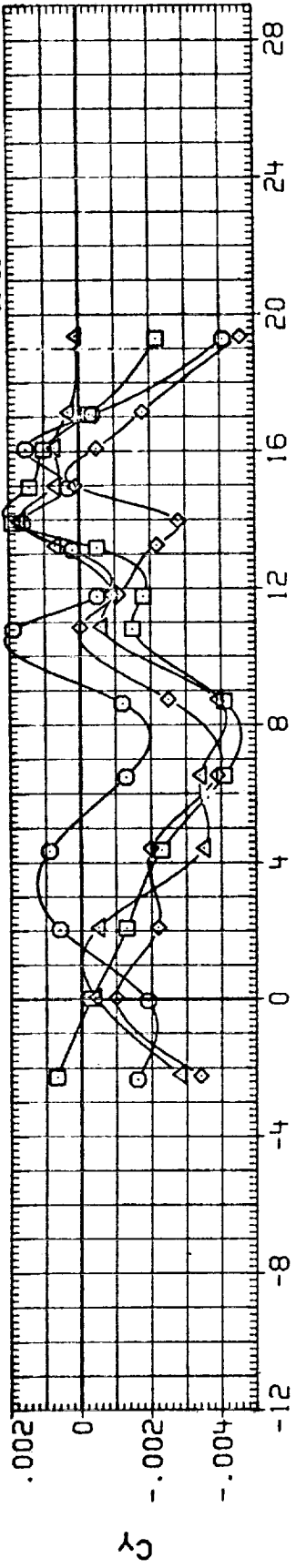


FIG. 17 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 4.5

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|------|-------|--------|--------|-----------------------|
| (CUK024) | LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON) | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK026) | LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON) | .000 | 4.500 | 10.000 | 2.000 | LREF 474.8000 INCHES |
| (CUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (CUK040) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | 2.000 | XMRP 1076.7000 IN. YO |
| | | | | | | YMRP .0000 IN. XO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

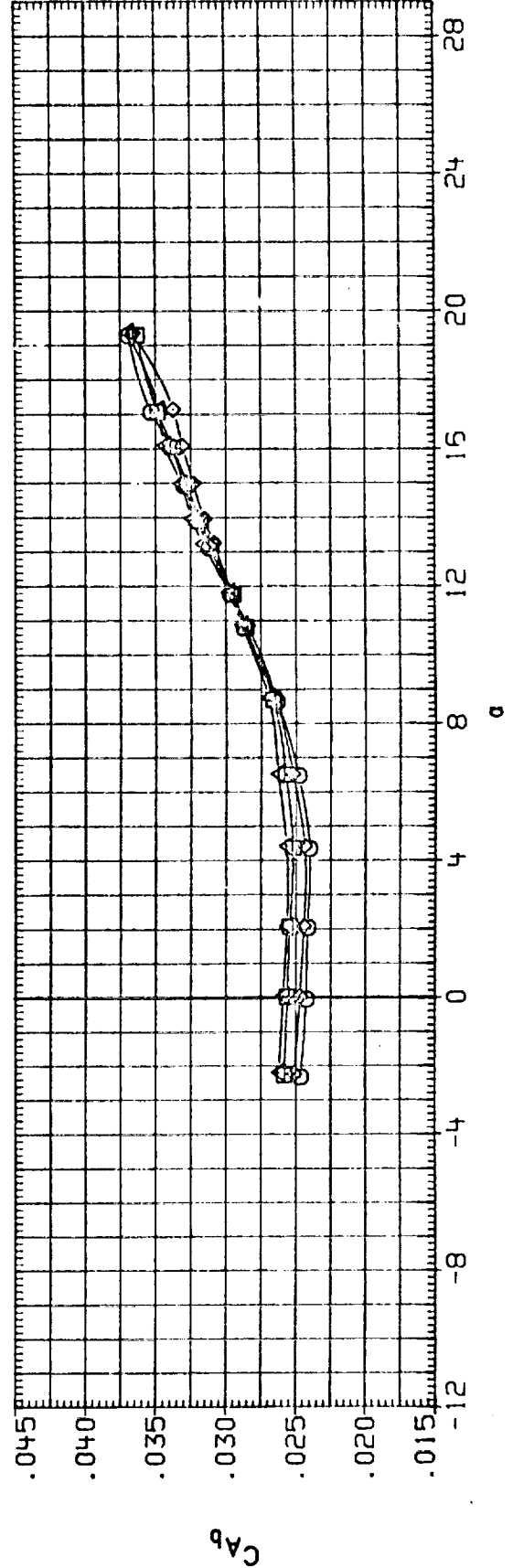
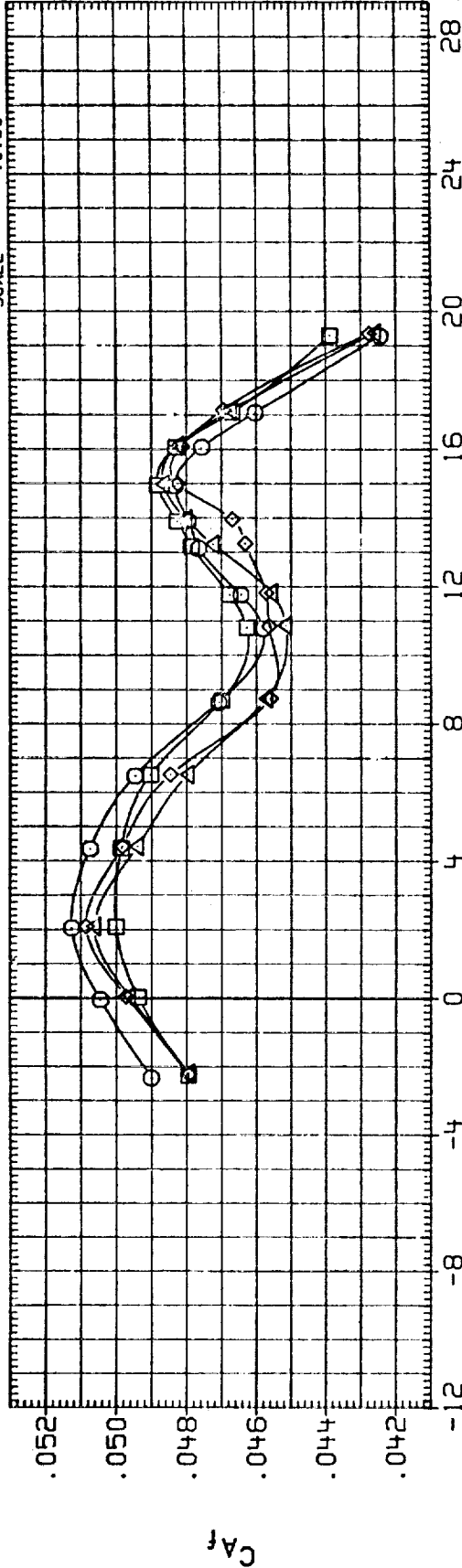


FIG. 17 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 4.5

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

BETA .000
 RN/L 4.500
 ELEVON 10.000
 AIRLON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CUK024) LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
 (CUK026) LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
 (CUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK040) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

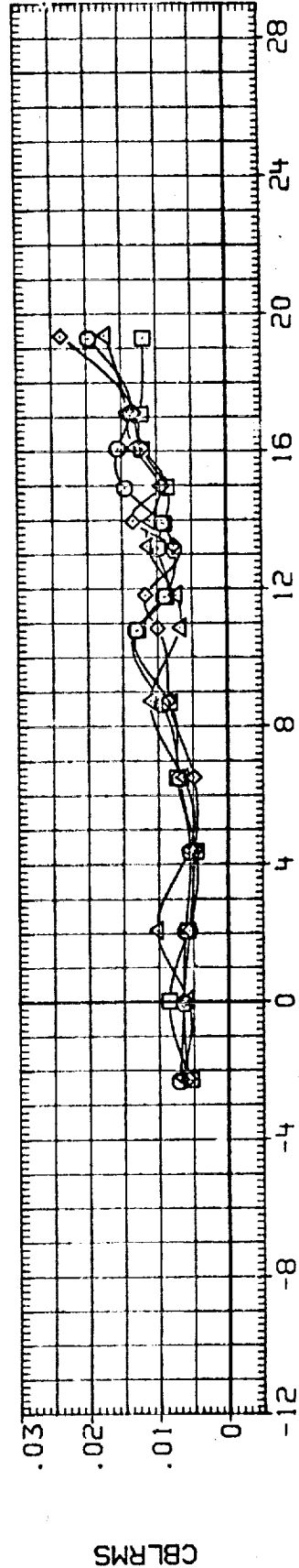
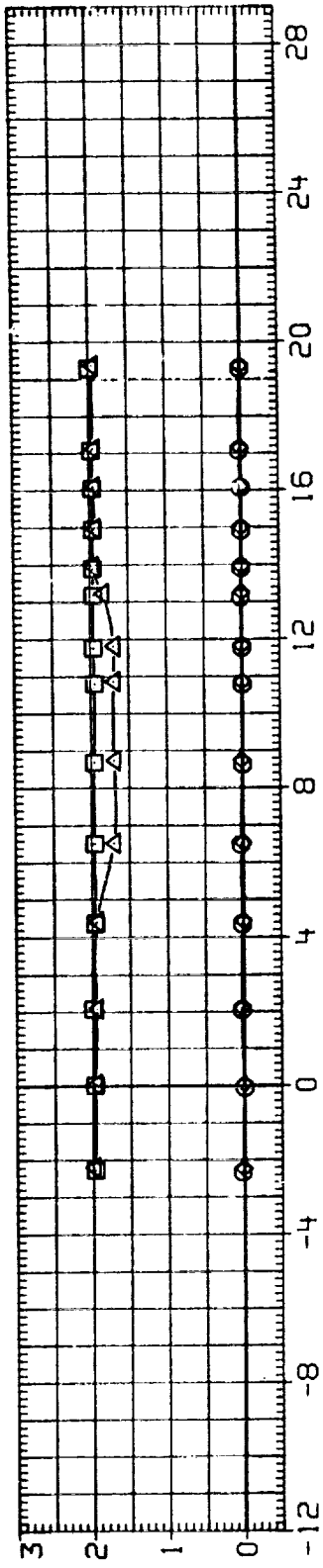
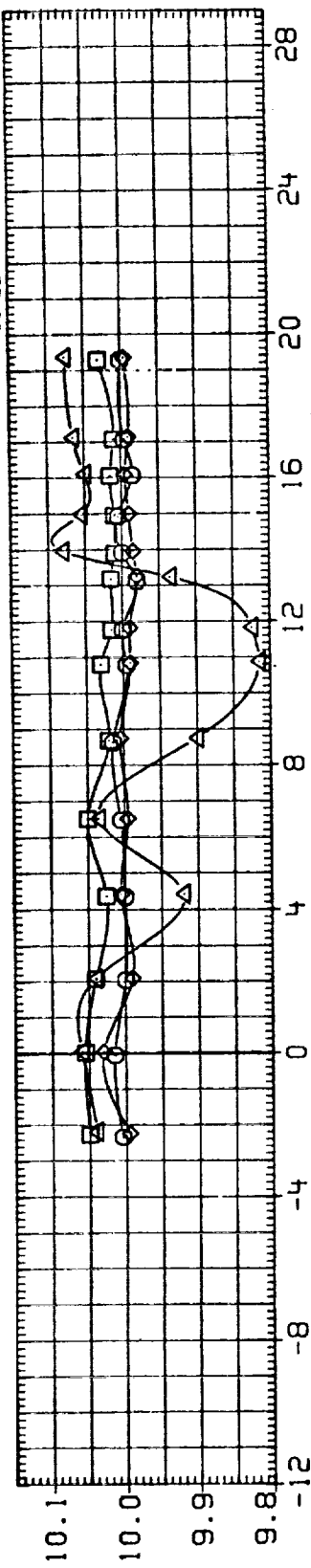


FIG. 17 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

(A)MACH = .90

| ELEVON | AIRLON | RN/L | BETA | REFERENCE INFORMATION |
|---------|--------|-------|------|-----------------------|
| -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| -5.000 | .000 | 4.500 | .000 | BREF 936.8000 INCHES |
| 10.000 | .000 | 4.500 | .000 | YMRP 1076.7000 IN. YO |
| 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | SCALE .0150 |

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION |
|-----------------|--|
| (RUK050) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK054) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK058) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK055) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |

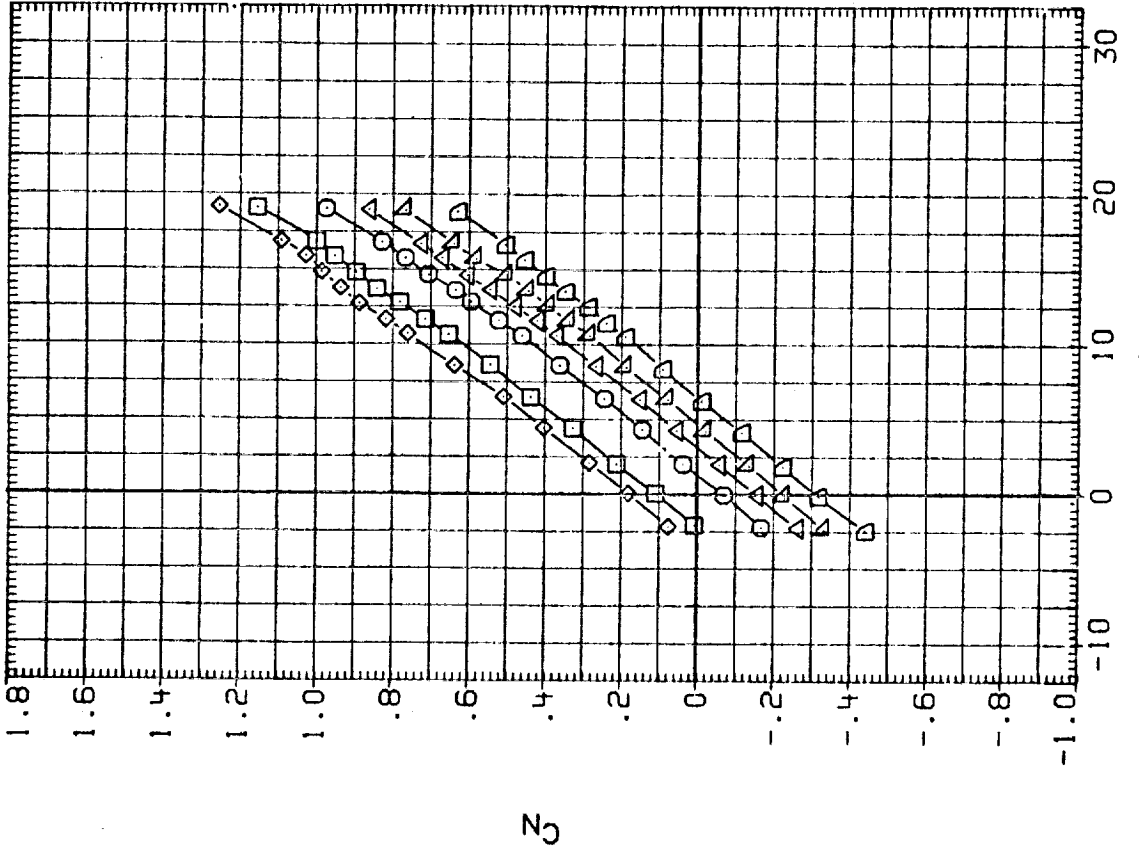
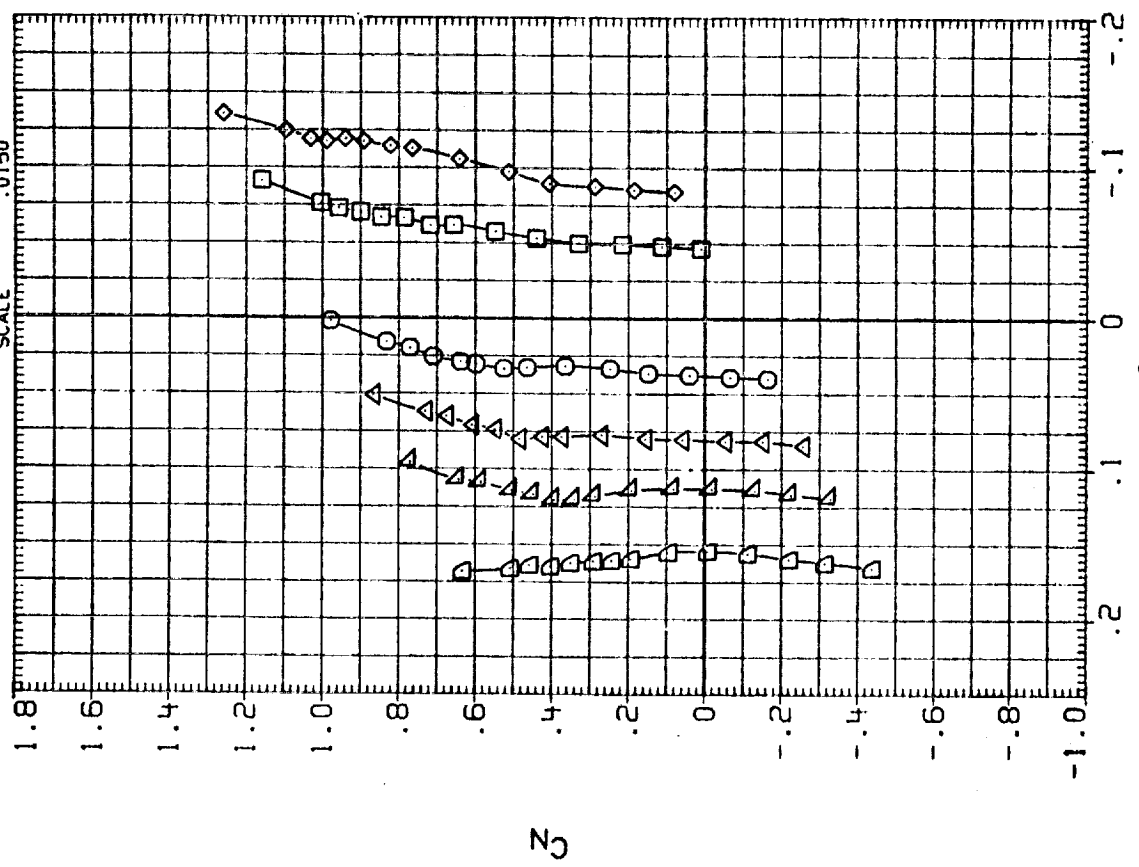
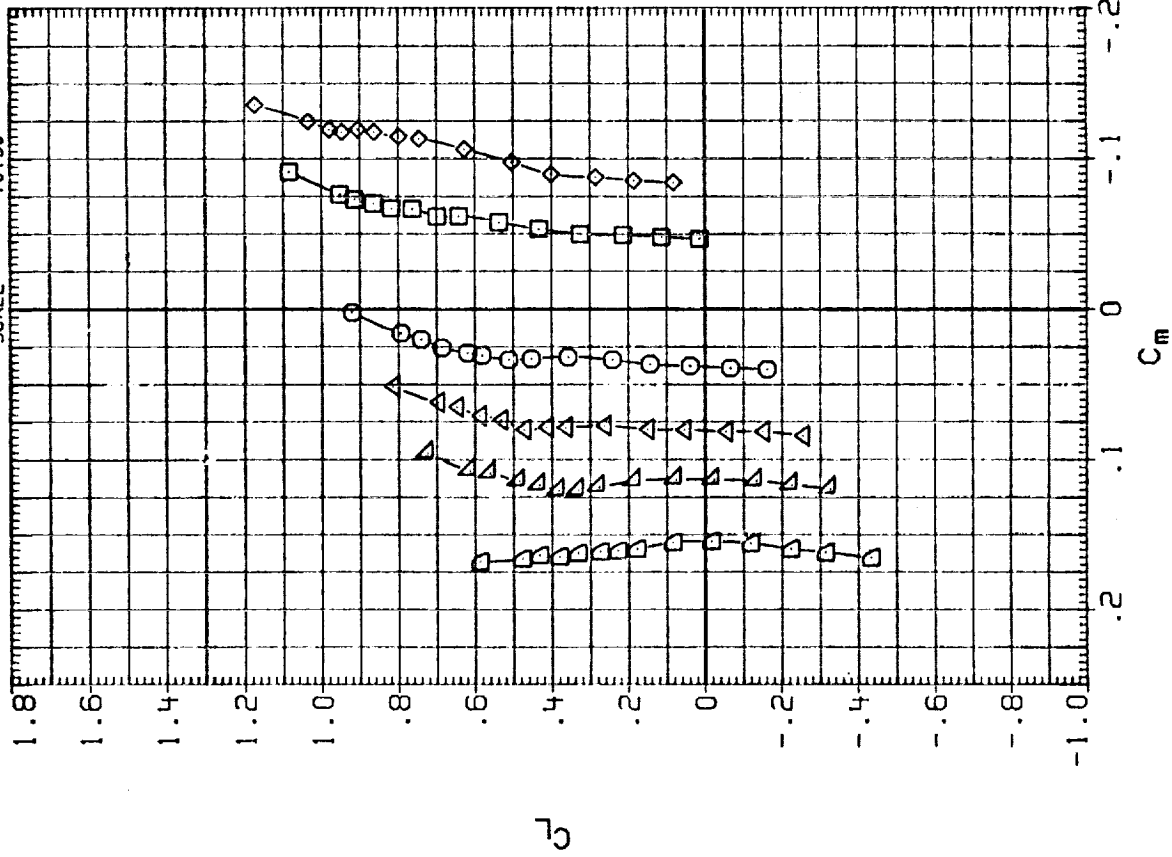


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .60

| ELEVON | AIRLON | RN/L | BETA | REFERENCE INFORMATION |
|---------|--------|-------|------|-----------------------|
| -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| -5.000 | .000 | 4.500 | .000 | BREF 936.8800 INCHES |
| .000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| 10.000 | .000 | 4.500 | .000 | YMRP .0000 IN. YO |
| 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |



| DATA SET SYMBOL | CONFIGURATION DESCRIPTION |
|-----------------|--|
| (RUK050) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK054) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK055) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |

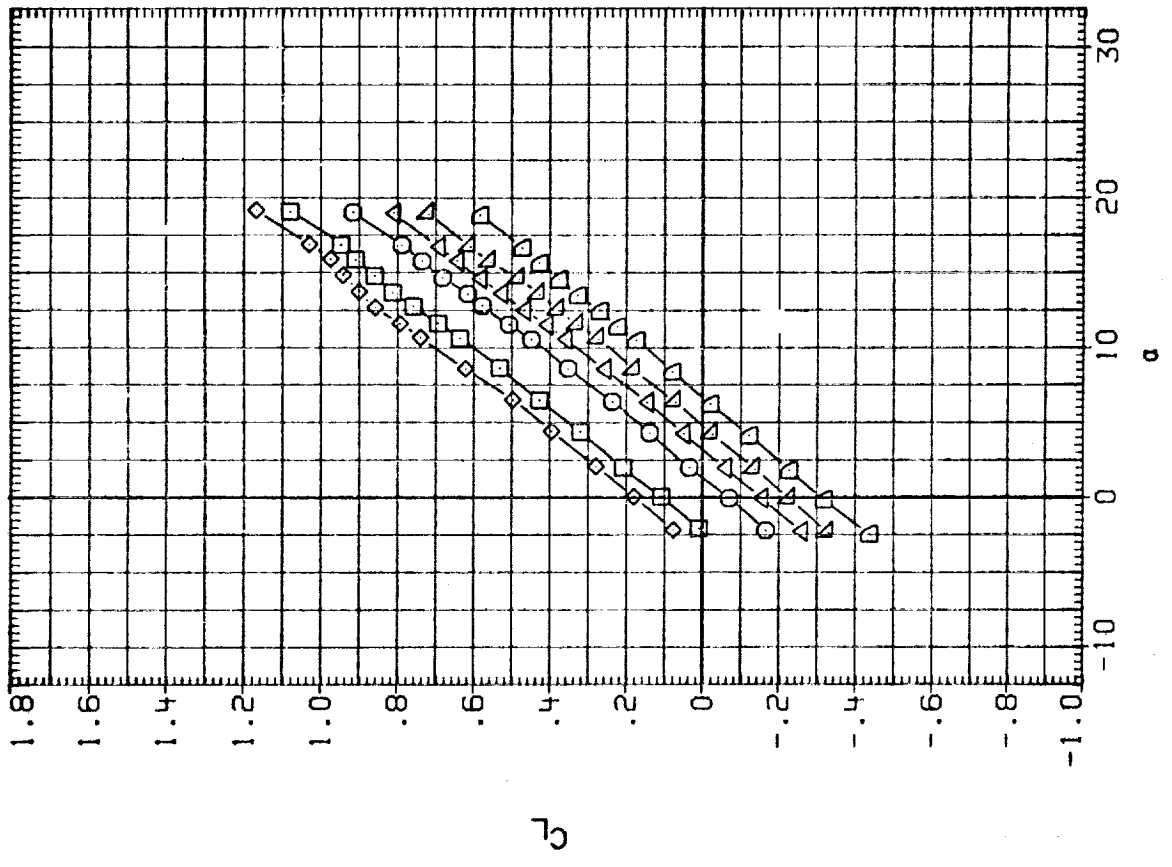


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK050) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK052) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK054) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK055) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON FN/L

-20.000 .000 4.500
 -10.000 .000 4.500
 -5.000 .000 4.500
 10.000 .000 4.500
 15.000 .000 4.500

BETA

.000
 .000
 .000
 .000
 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

SCALE .0150

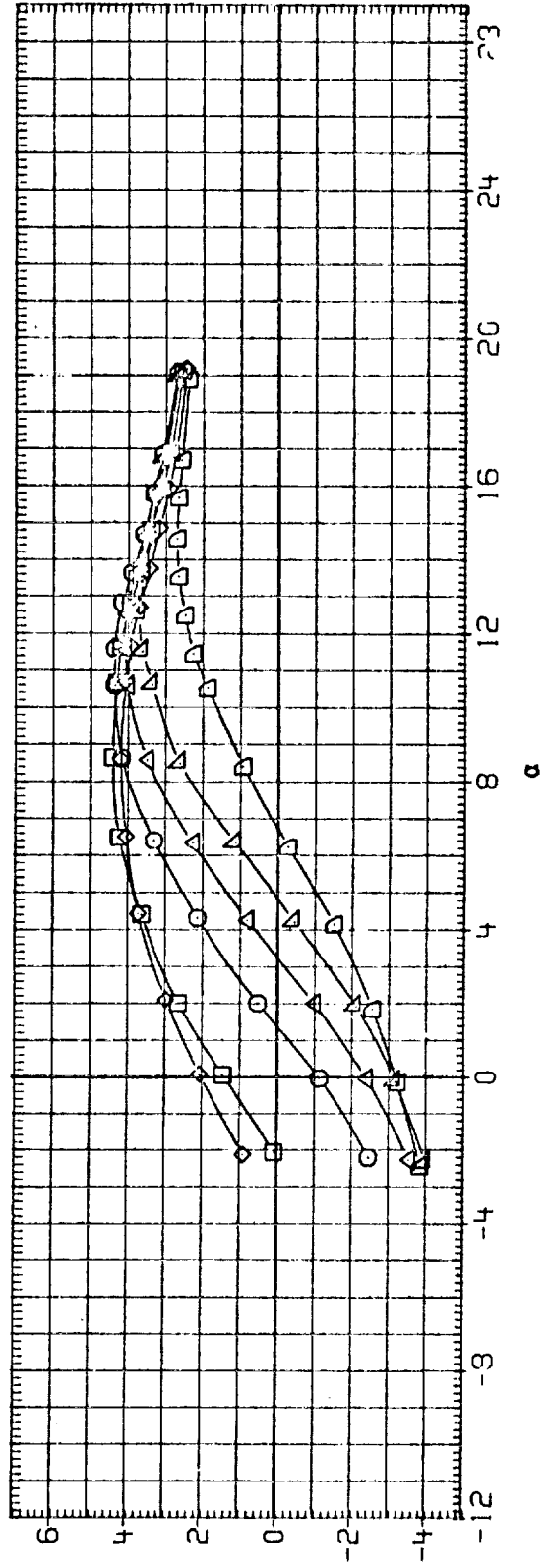
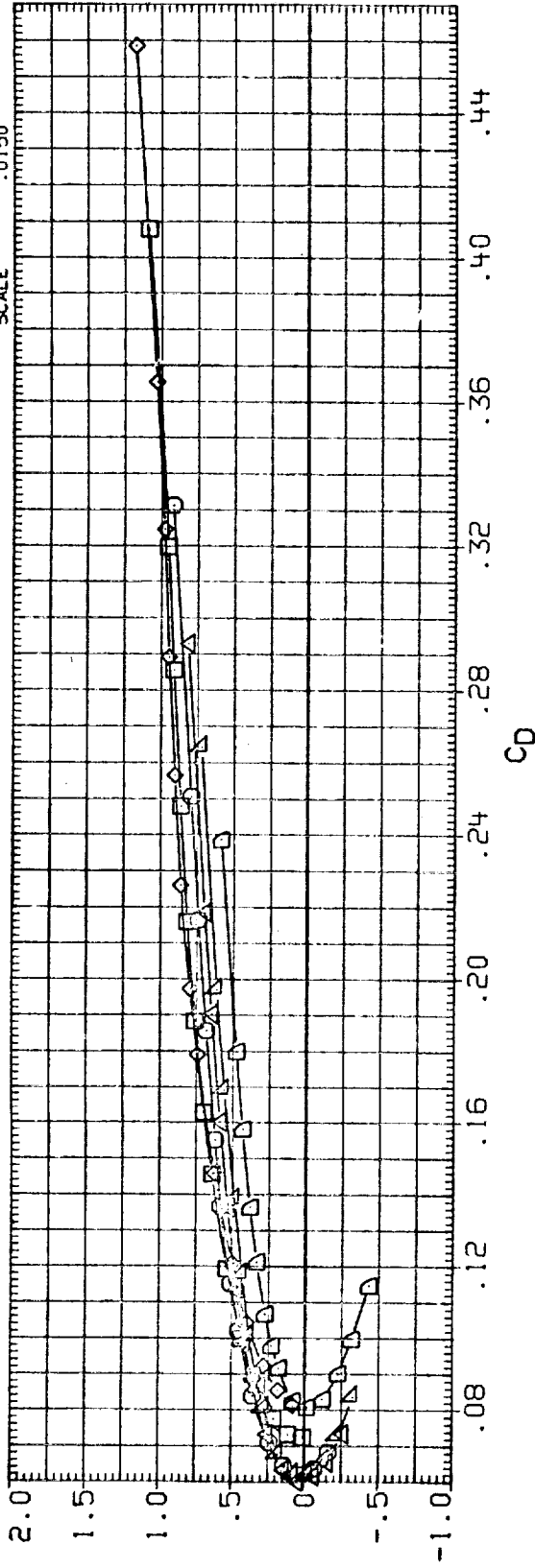


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|---------|-------|------|-----------------------|
| (RUK050) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SO.FT. |
| (RUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (RUK054) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -5.000 | .000 | 4.500 | .000 | BREF 936.6900 INCHES |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | YMRP .0000 IN. YO |
| (RUK055) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

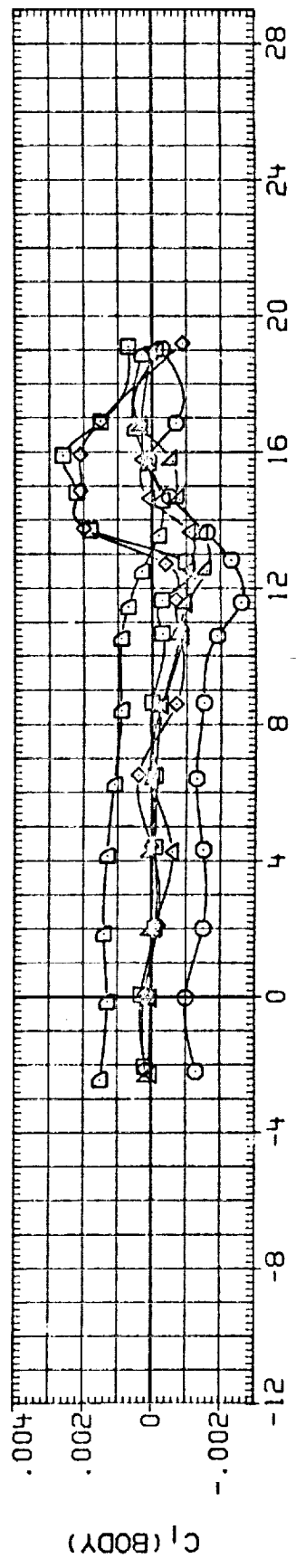
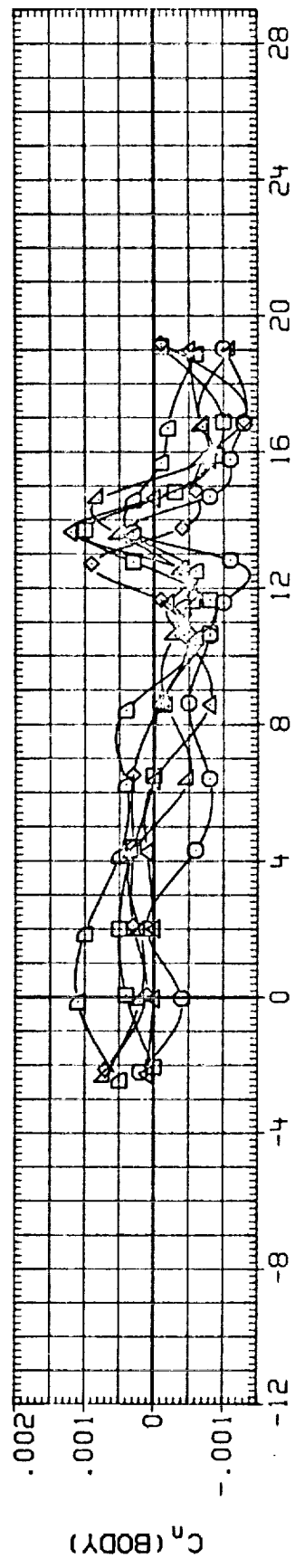
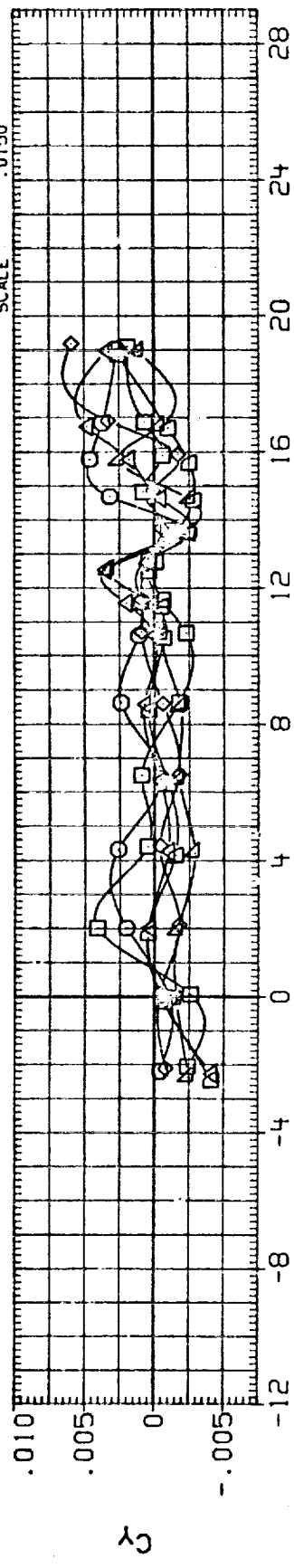


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|---------|-------|------|------------------------|
| (CUK050) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (CUK054) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (CUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | YMRRP 1076.7000 IN. X0 |
| (CUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | ZMRRP .0000 IN. Y0 |
| (CUK055) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | .000 | 4.500 | .000 | SCALE .0150 |

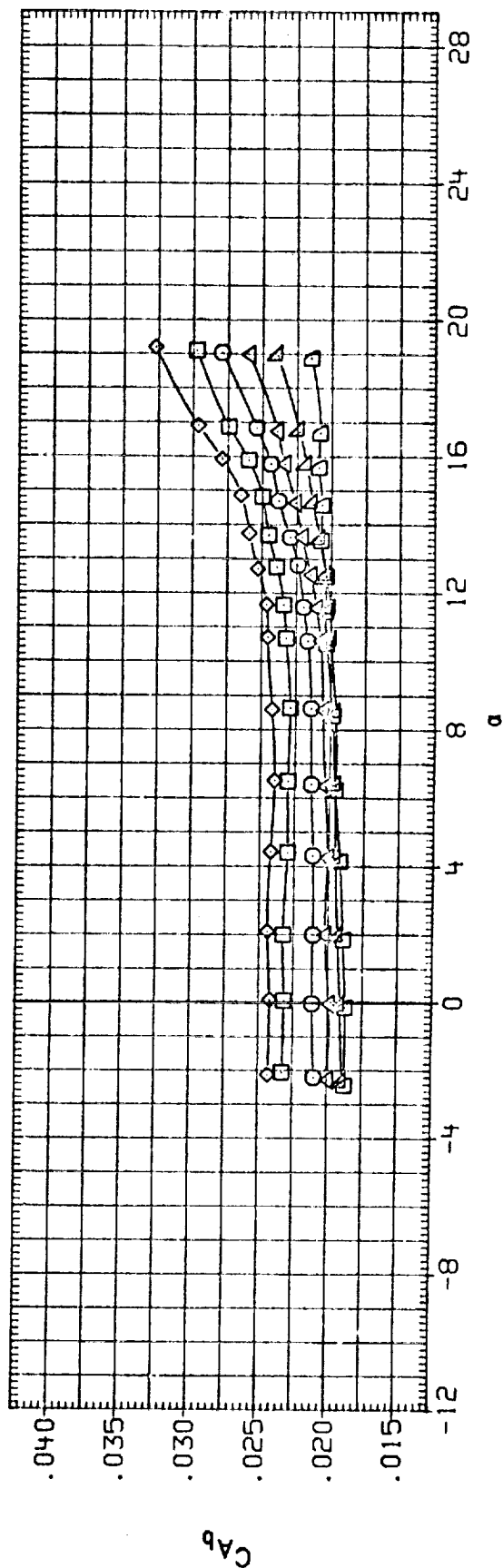
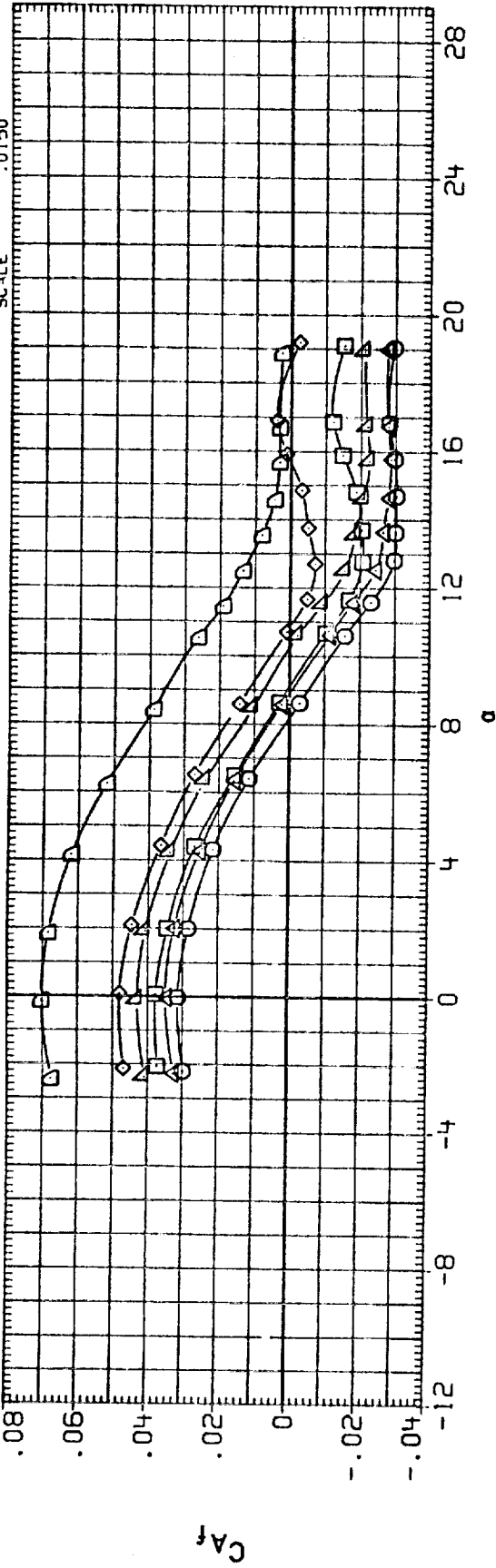


FIG. 18 ELEVON EFFECTIVENESS

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|------|-----------------------|
| (CUK050) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 50.FT. |
| (CUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (CUK054) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -5.000 | .000 | 4.500 | .000 | PREF 936.6800 INCHES |
| (CUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | XHRP 1076.7000 IN. XO |
| (CUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | YHRP .0000 IN. YO |
| (CUK055) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | .000 | 4.500 | .000 | ZHRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

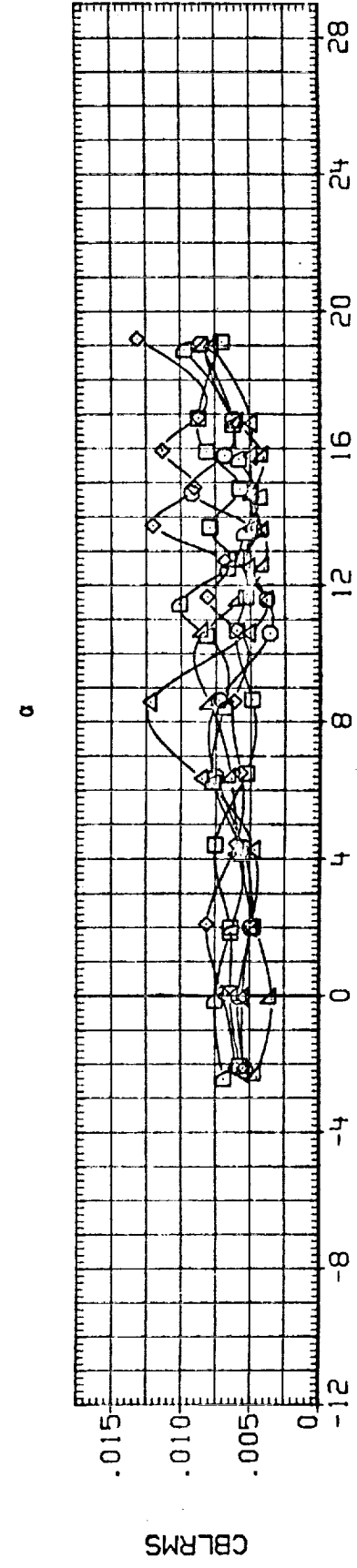
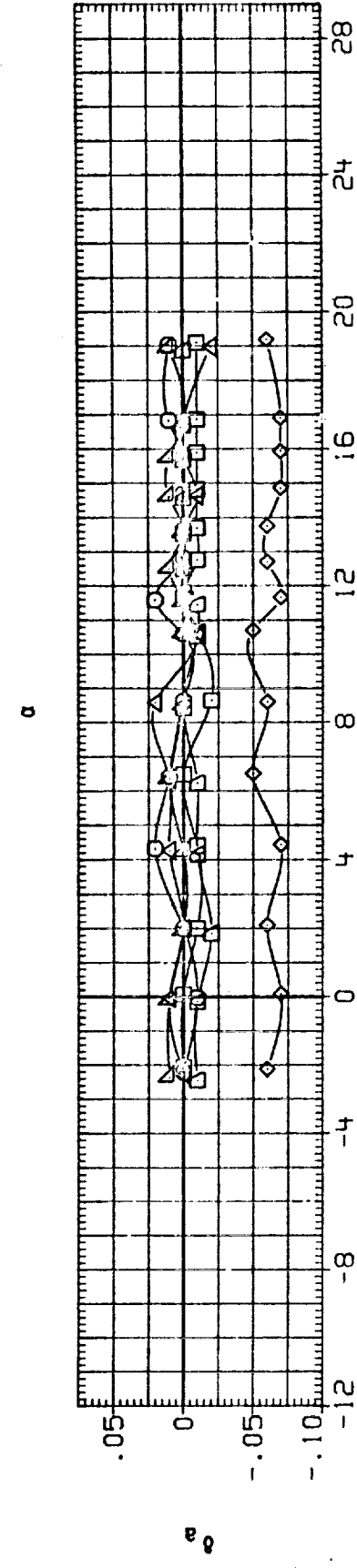
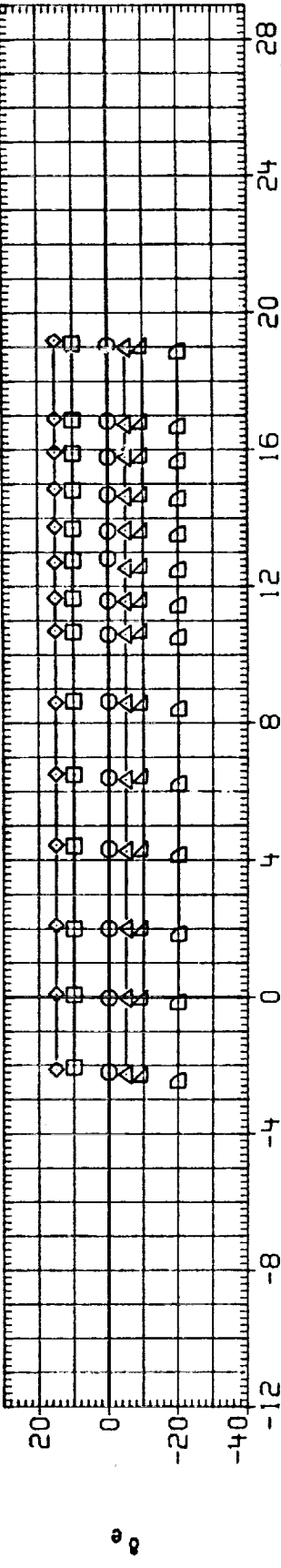
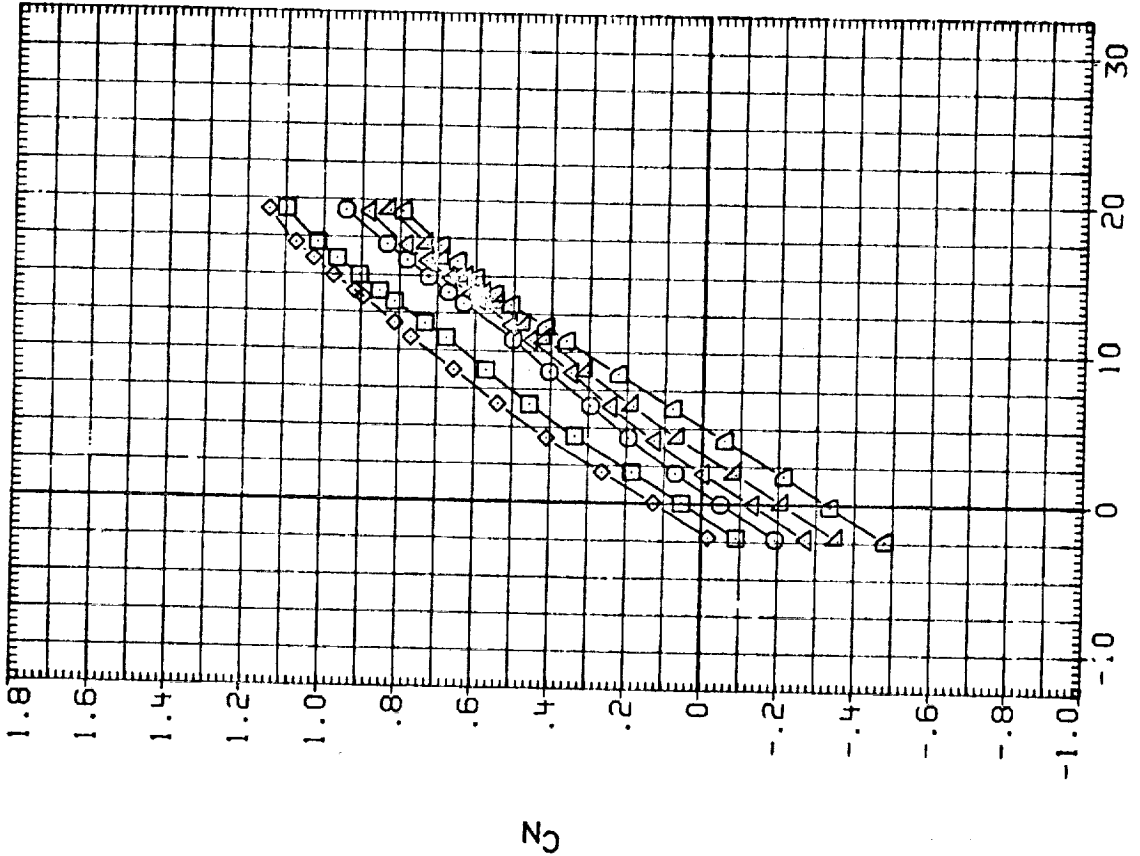


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION |
|----------|--------|--|
| (RUK050) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK052) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK054) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK058) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK035) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK055) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |



| ELEVON | AIRLON | RN/L | BETA | REFERENCE INFORMATION |
|---------|--------|-------|------|-----------------------|
| -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SO.FT. |
| -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| -5.000 | .000 | 4.500 | .000 | BREF 935.6800 INCHES |
| 10.000 | .000 | 4.500 | .000 | YMPP 1076.7000 IN. XO |
| 15.000 | .000 | 4.500 | .000 | ZMRP .0000 IN. YO |
| | | | | ZMRP 375.0000 IN. ZO |

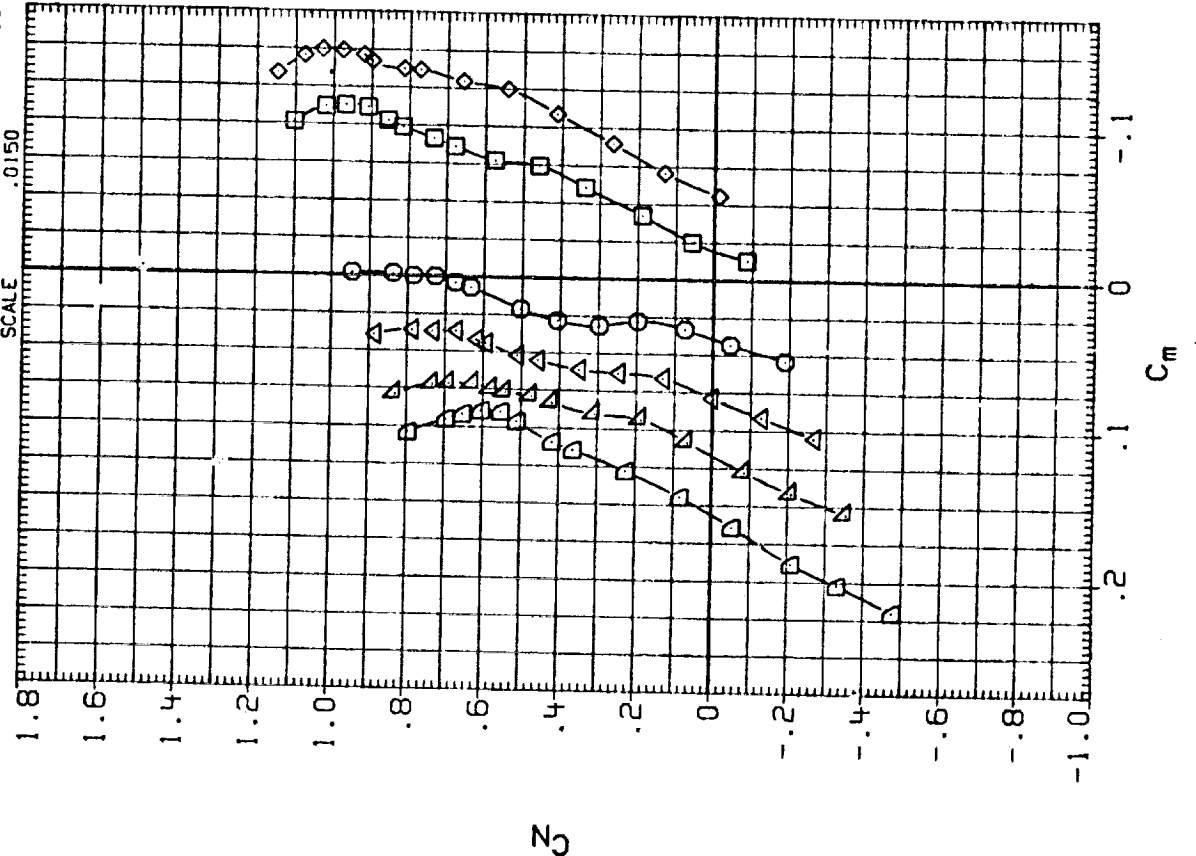
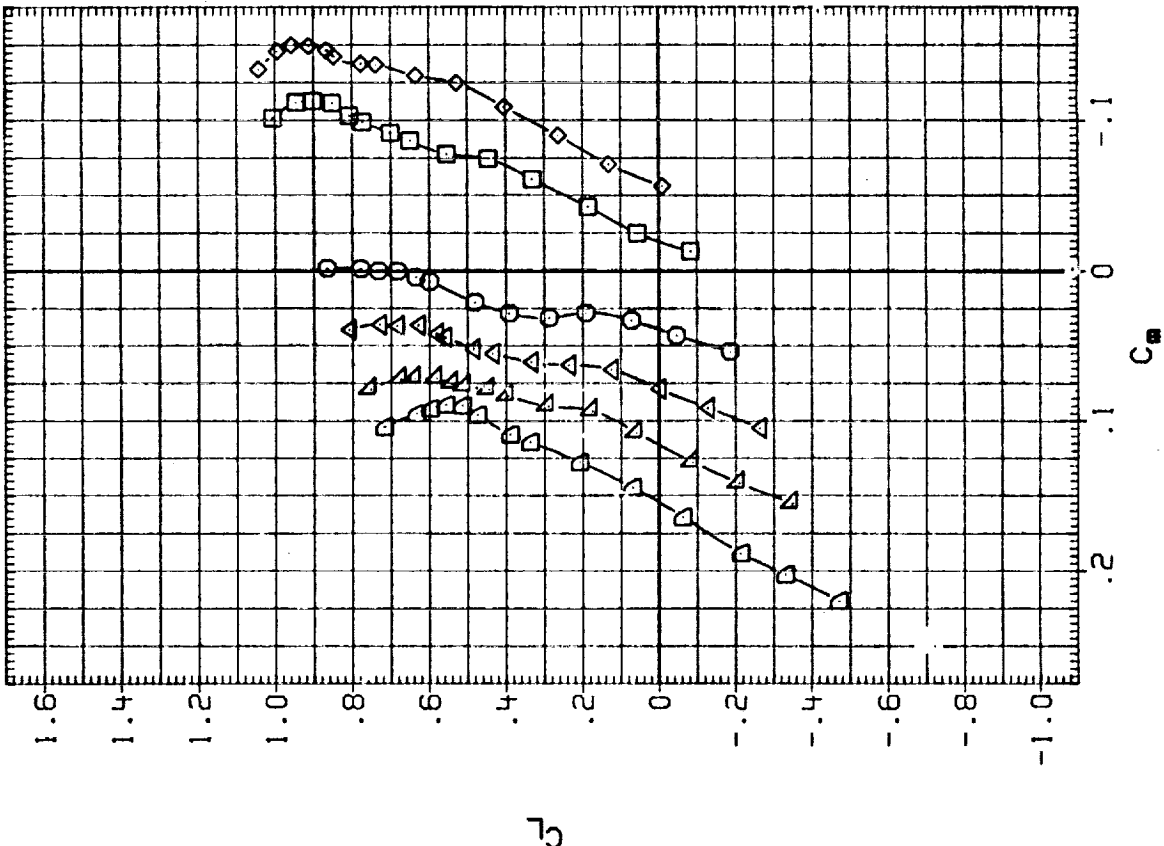


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .90

| ELEVON | AILRON | RN/L | BETA | REFERENCE INFORMATION |
|---------|--------|-------|------|-----------------------|
| -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| .000 | .000 | 4.500 | .000 | XPRP 1076.7000 IN. XO |
| 10.000 | .000 | 4.500 | .000 | YPRP .0000 IN. YO |
| 15.000 | .000 | 4.500 | .000 | ZPRP 375.0000 IN. ZO |



| DATA SET SYMBOL | CONFIGURATION DESCRIPTION |
|-----------------|--|
| (RUK050) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) |
| (RUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) |
| (RUK054) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) |
| (RUK055) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) |

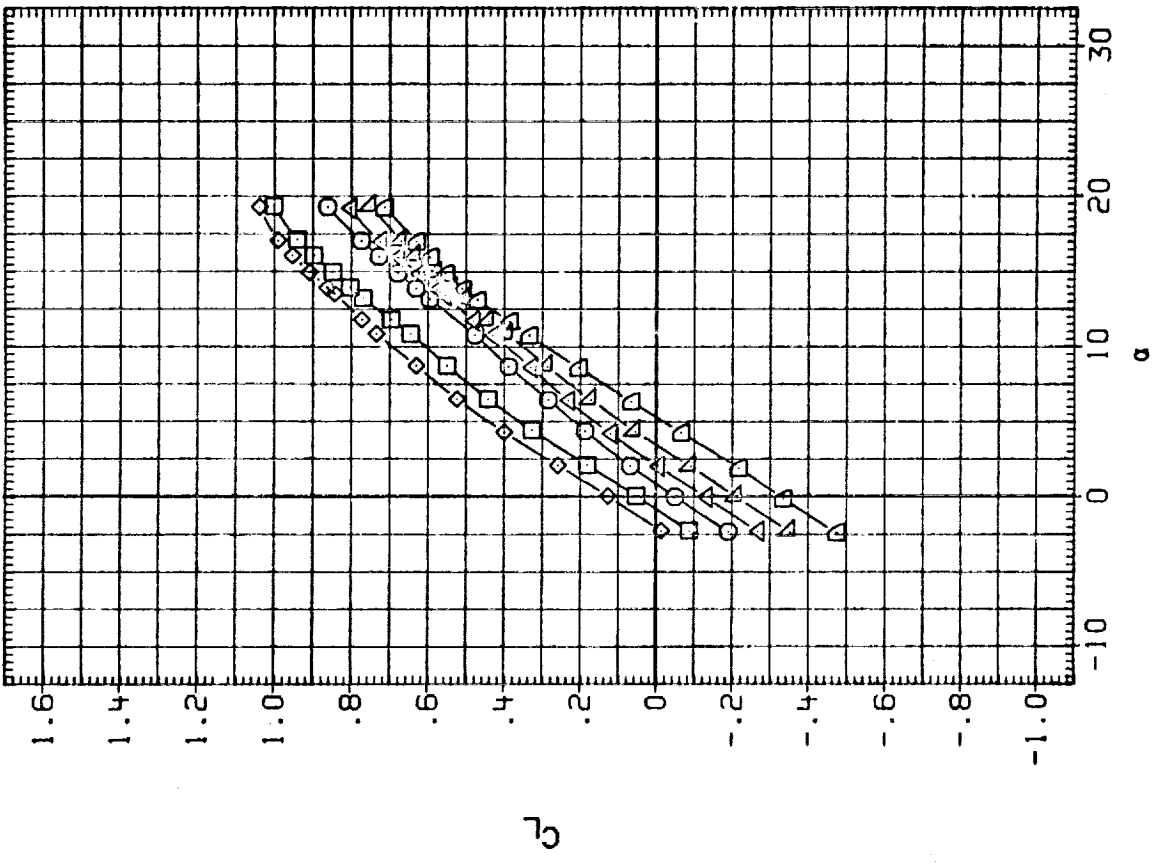


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .90

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|------|-----------------------|
| (RUK050) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (RUK054) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (RUK058) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | YMRP 1076.7000 IN. XO |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | .000 | 4.500 | .000 | ZMRP .0000 IN. YO |
| (RUK055) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | | .000 | 4.500 | .000 | SCALE 375.0000 IN. ZO |

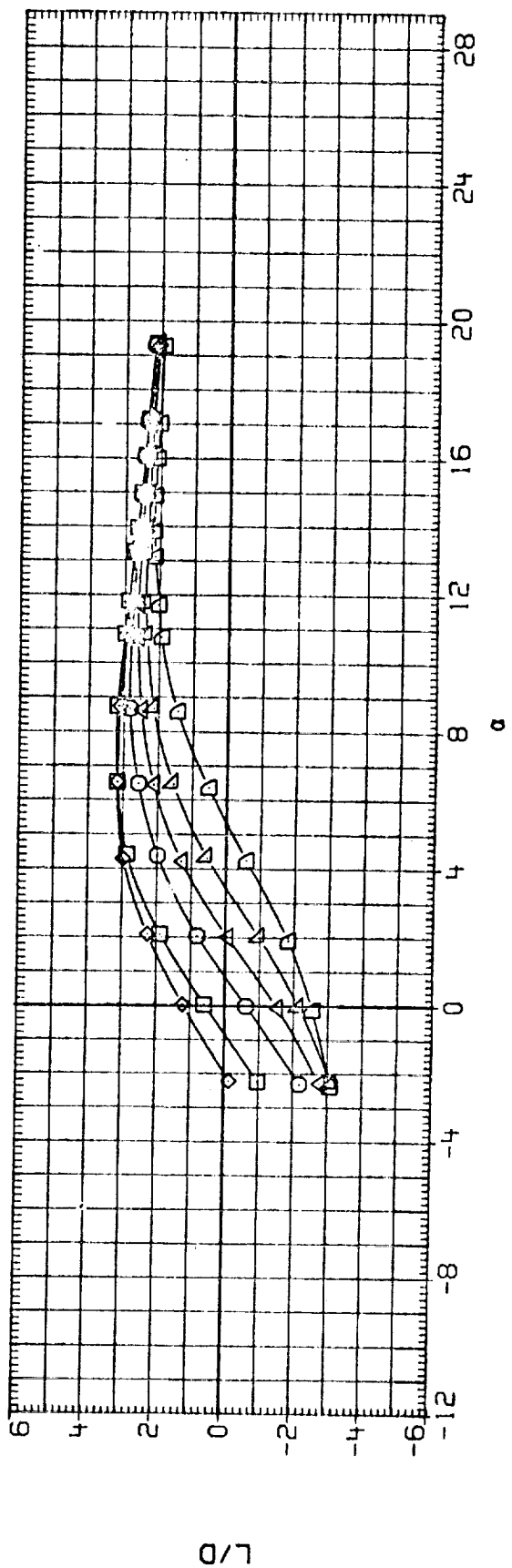
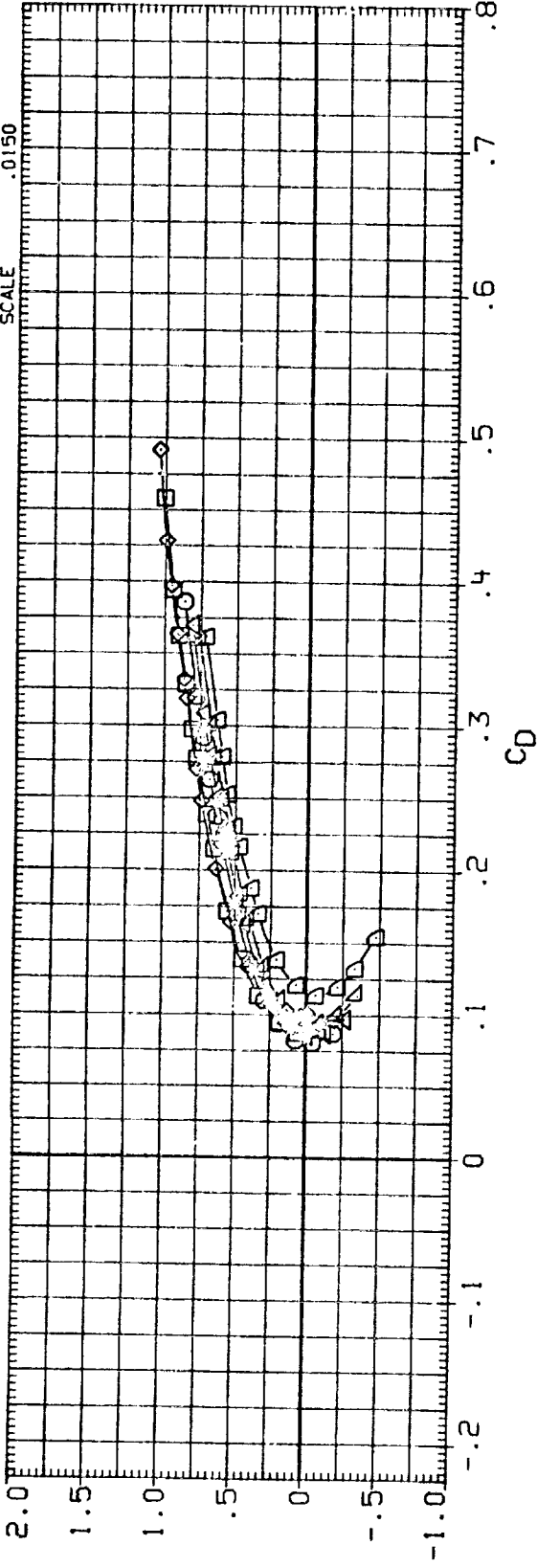


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
|----------|--------|--|---------|---------|-------|------|-----------------------|
| (RUK050) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK052) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (RUK054) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -5.000 | .000 | 4.500 | .000 | BREF 936.6600 INCHES |
| (RUK028) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| (RUK036) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | YMRP .0000 IN. YO |
| (RUK055) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

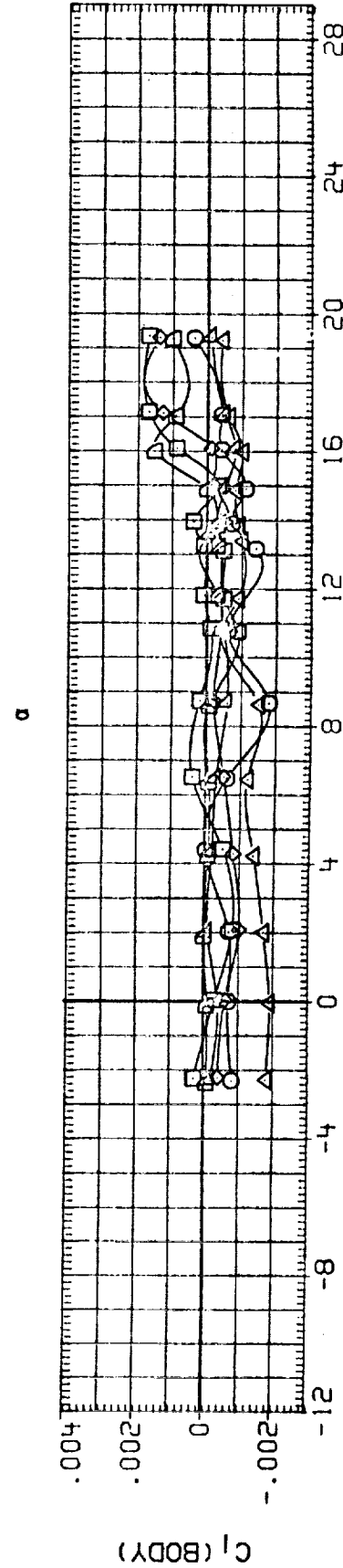
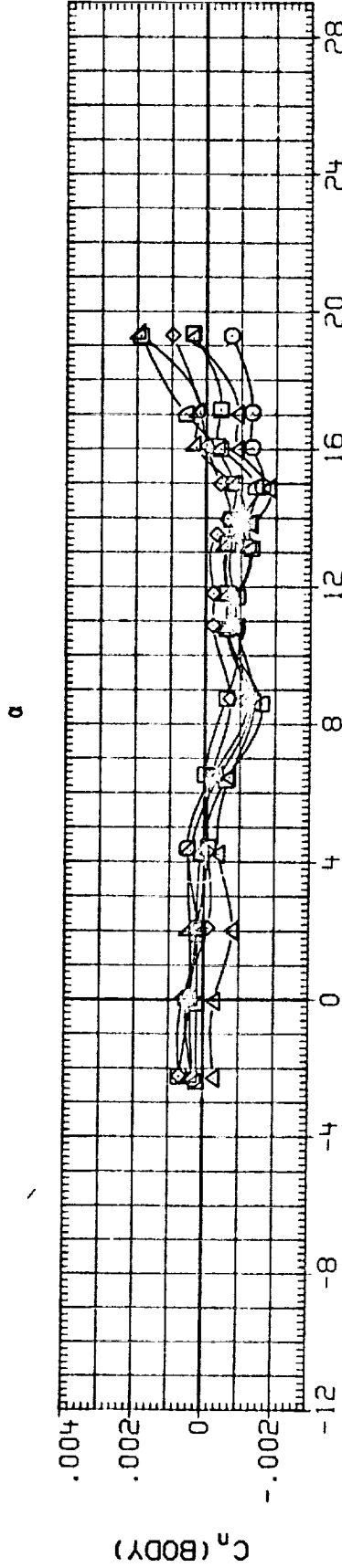
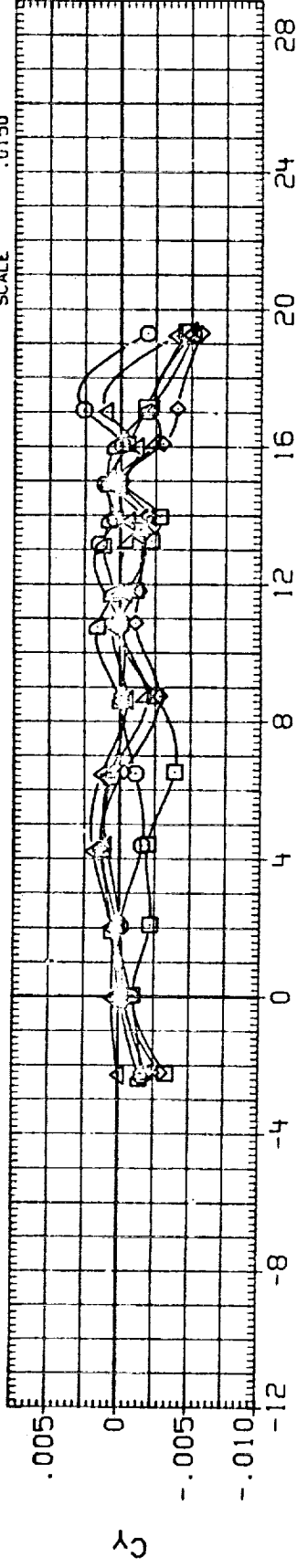


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
|----------|--------|--|---------|---------|-------|------|-----------------------|
| (CUK050) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK052) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (CUK054) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (CUK028) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| (CUK036) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | YMRP .0000 IN. YO |
| (CUK055) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |

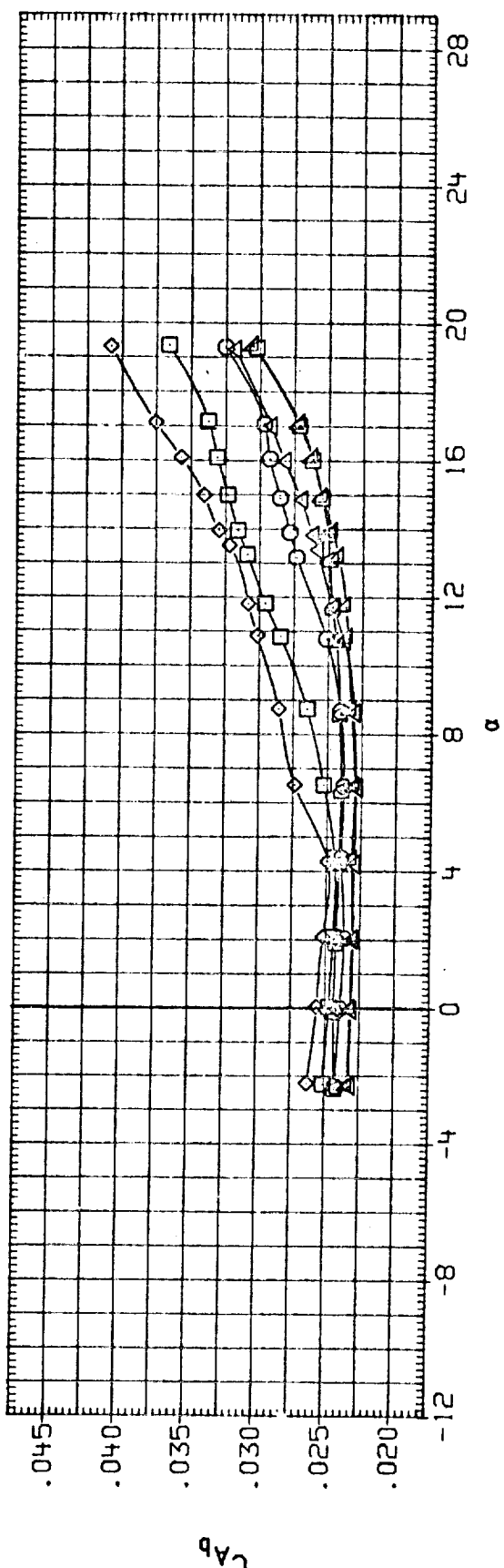
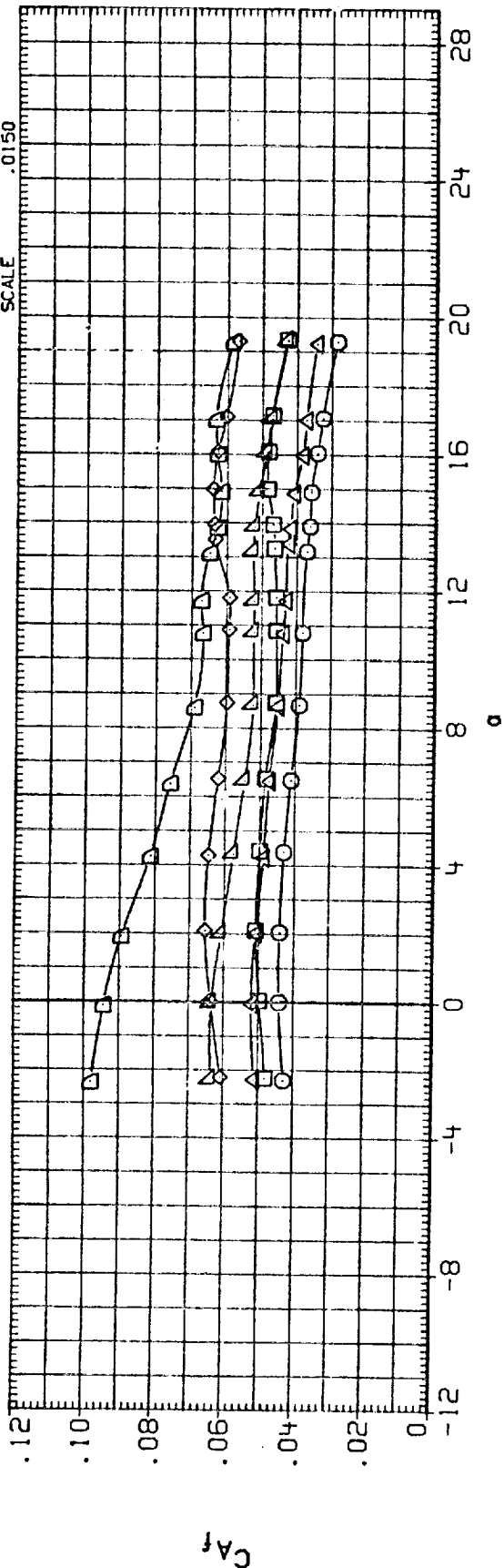


FIG. 18 ELEVON EFFECTIVENESS

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|------|-----------------------|
| (CUK050) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (CUK054) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (CUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | YMRP 1076.7000 IN. YO |
| (CUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |
| (CUK055) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | .000 | 4.500 | .000 | SCALE .0150 |

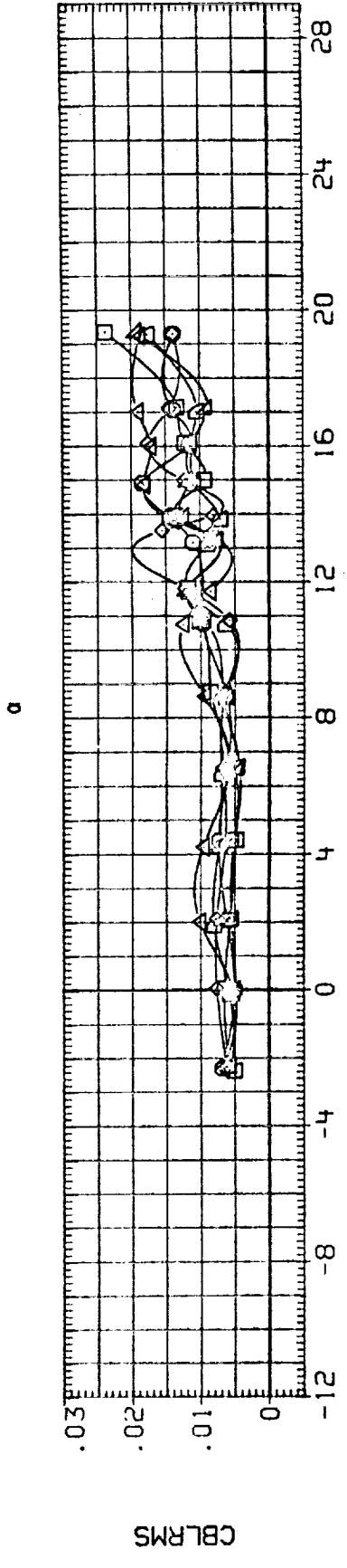
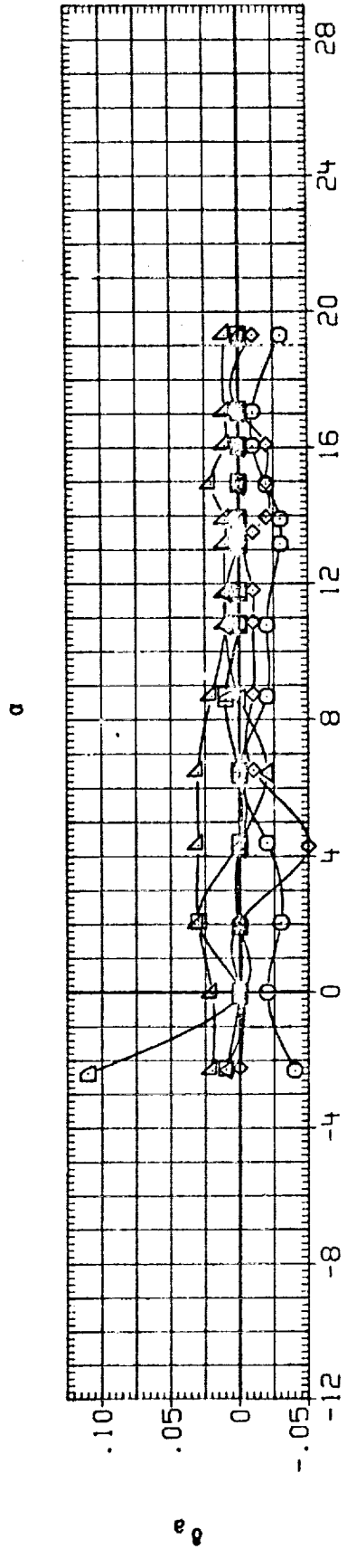
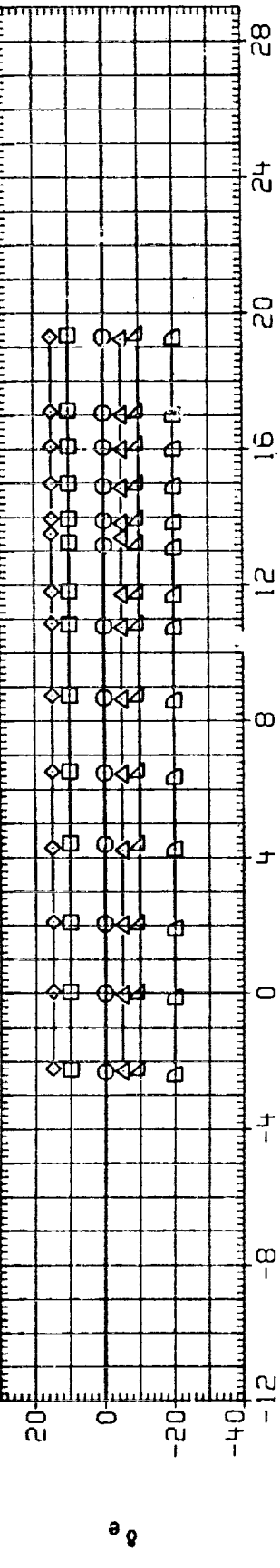
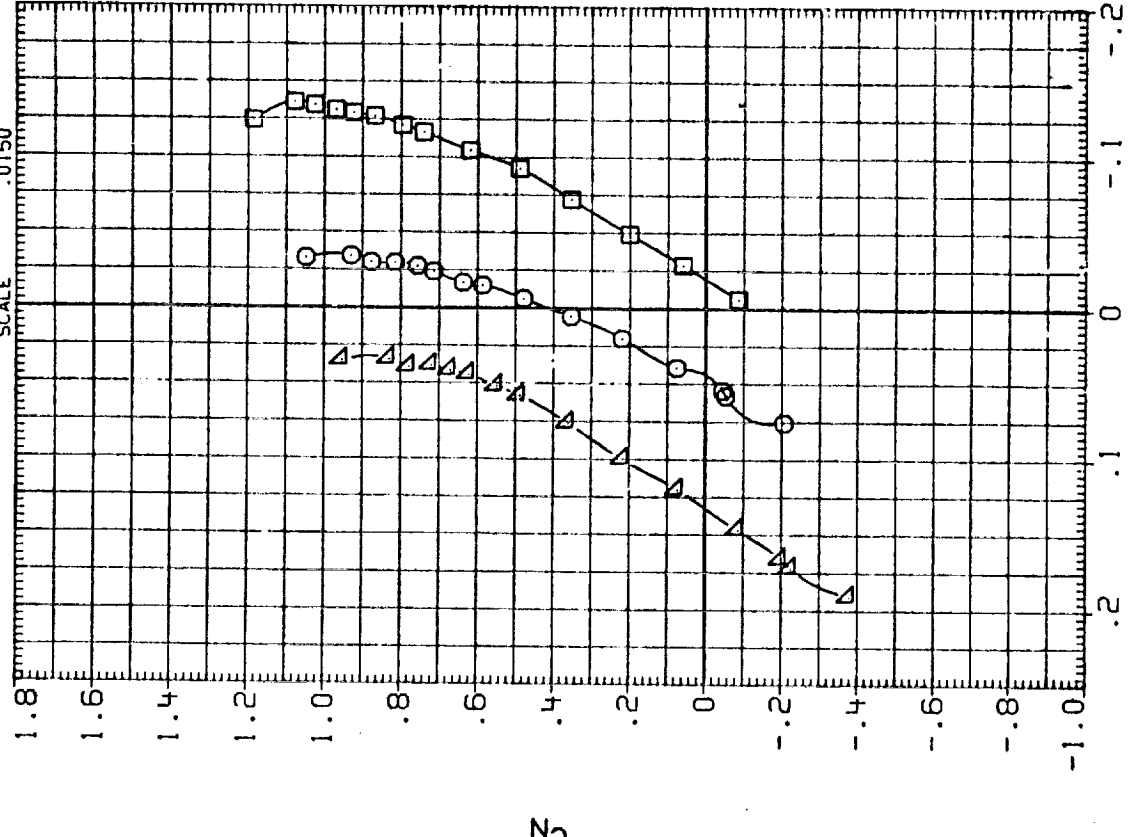


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .90

| ELEVON | AIRLON | RN/L | BETA | REFERENCE INFORMATION |
|---------|--------|-------|------|-----------------------|
| -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| -5.000 | .000 | 4.500 | .000 | BREF 935.6800 INCHES |
| 10.000 | .000 | 4.500 | .000 | XTRP 1075.7000 IN. XO |
| 15.000 | .000 | 4.500 | .000 | YTRP .0000 IN. YO |
| | | | | ZTRP 375.0000 IN. ZO |
| | | | | SCALE .0150 |



| DATA SET SYMBOL | CONFIGURATION DESCRIPTION |
|-----------------|--|
| (RUK050) | DATA NOT AVAILABLE |
| (RUK052) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK054) | DATA NOT AVAILABLE |
| (RUK028) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK035) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK055) | DATA NOT AVAILABLE |

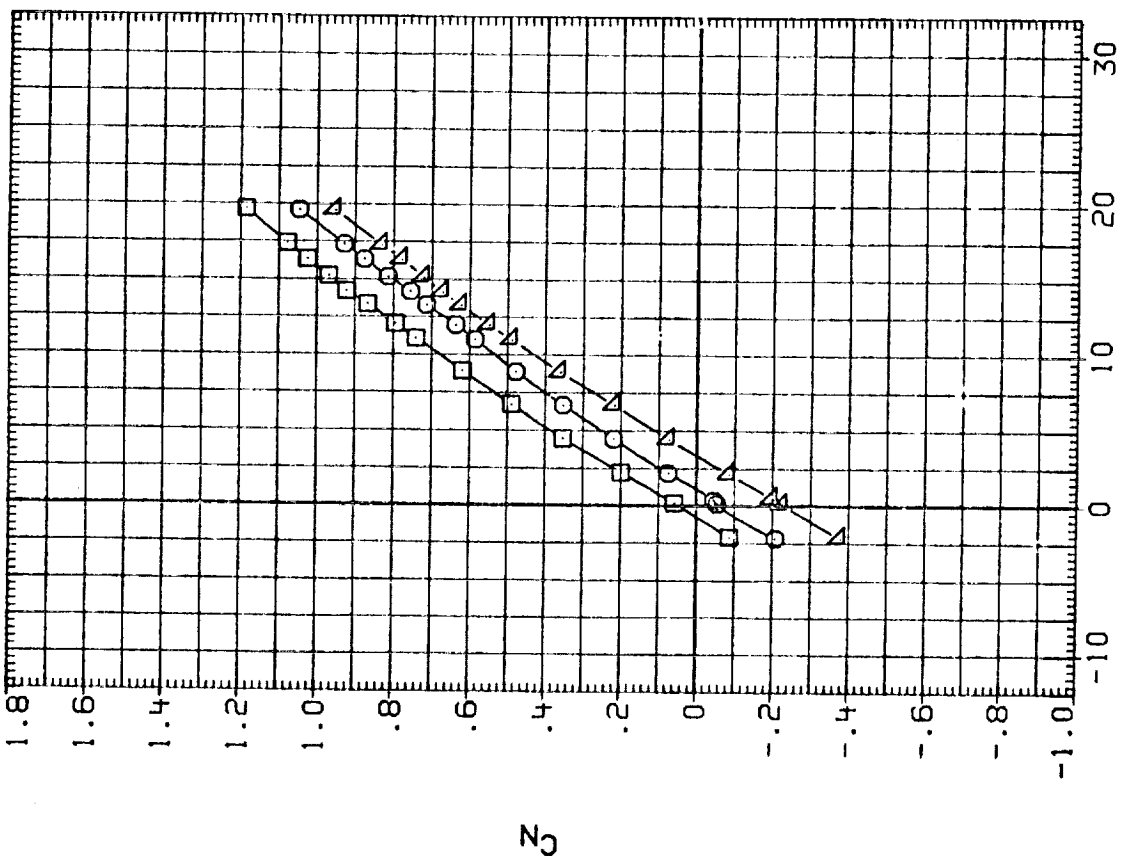


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .95

| ELEVON | AILRON | RNVL | BETA | REFERENCE INFORMATION |
|---------|--------|-------|------|-----------------------|
| -20.000 | .000 | 4.500 | .000 | SRF 2690.0000 SQ. FT. |
| -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| 10.000 | .000 | 4.500 | .000 | YMRP 1076.7000 IN. XO |
| 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. YO |
| | | | | SCALE .0150 |

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION |
|-----------------|--|
| (RUK050) | DATA NOT AVAILABLE |
| (RUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK054) | DATA NOT AVAILABLE |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK055) | DATA NOT AVAILABLE |

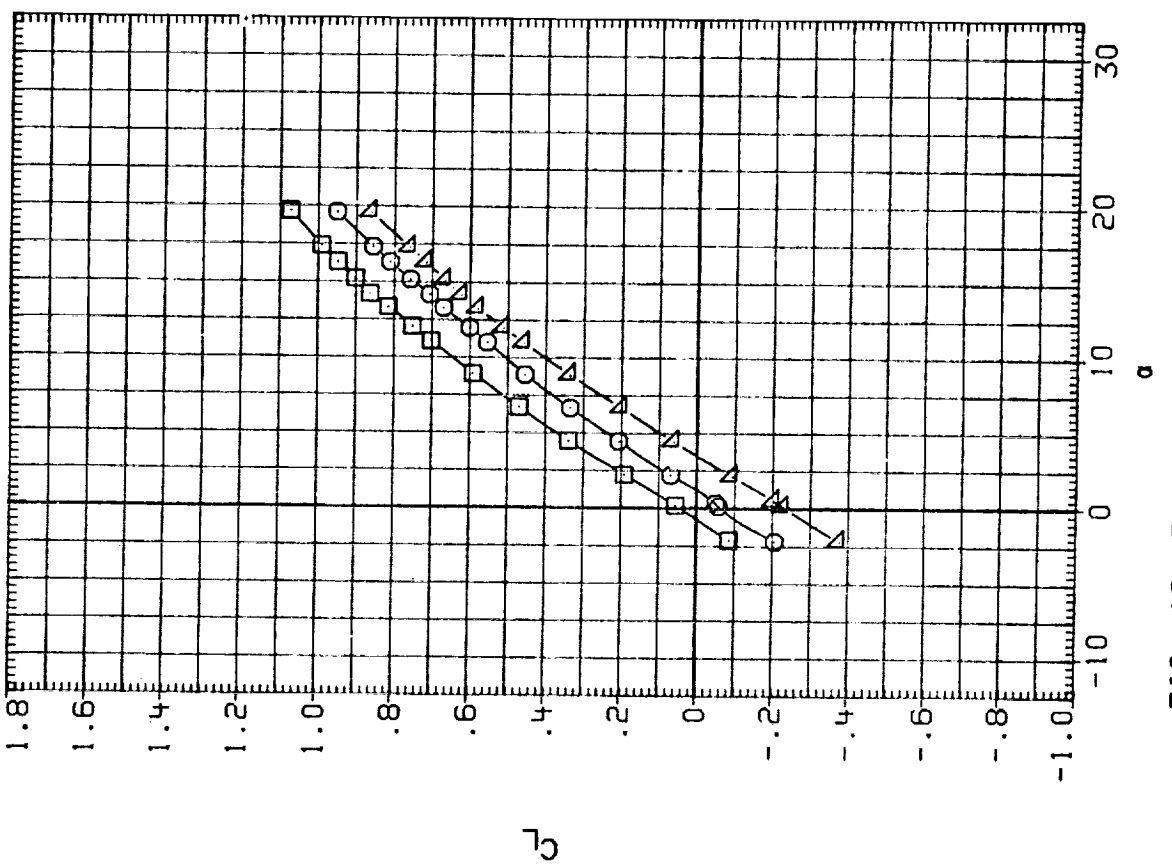
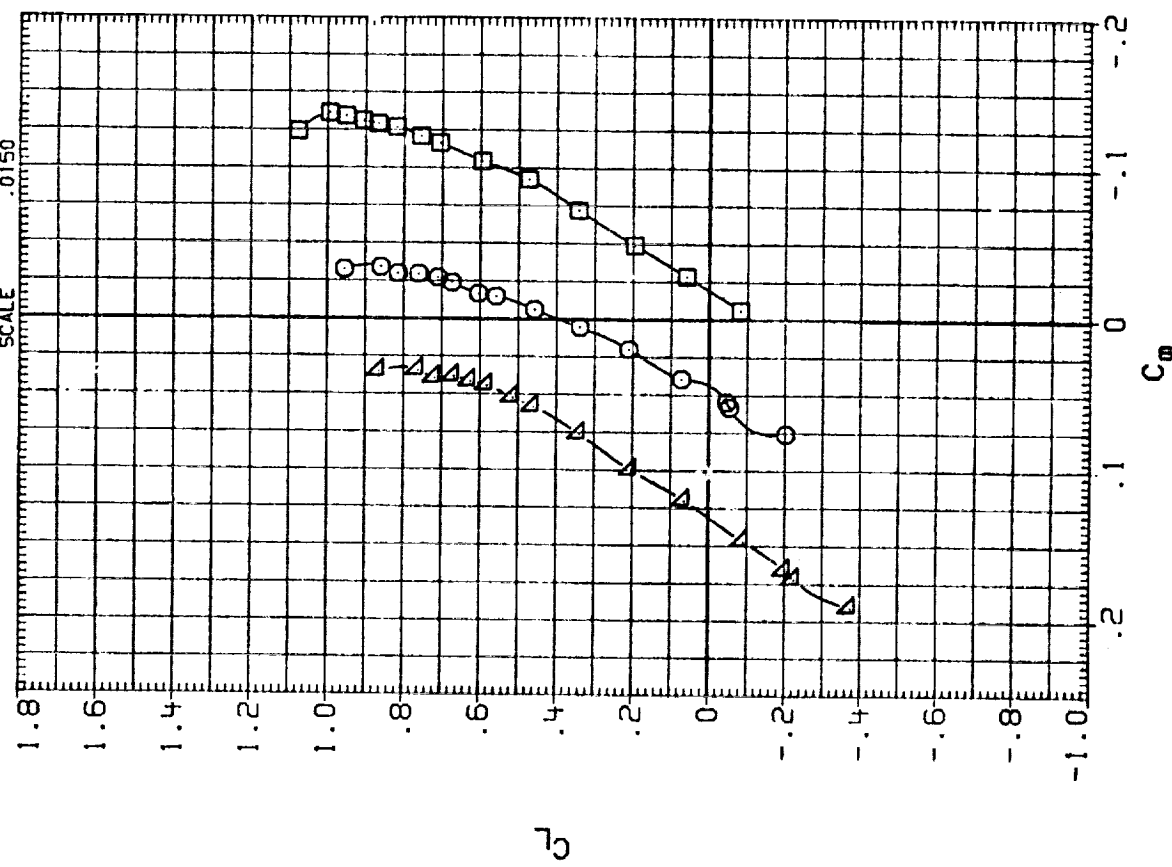


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .95

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|---------|-------|------|------------------------|
| (RUK050) | DATA NOT AVAILABLE | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SO. FT. |
| (RUK052) | LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (RUK054) | DATA NOT AVAILABLE | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (RUK028) | LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | .000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| (RUK036) | LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 10.000 | .000 | 4.500 | .000 | YMRP .0000 IN. YO |
| (RUK055) | DATA NOT AVAILABLE | 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |

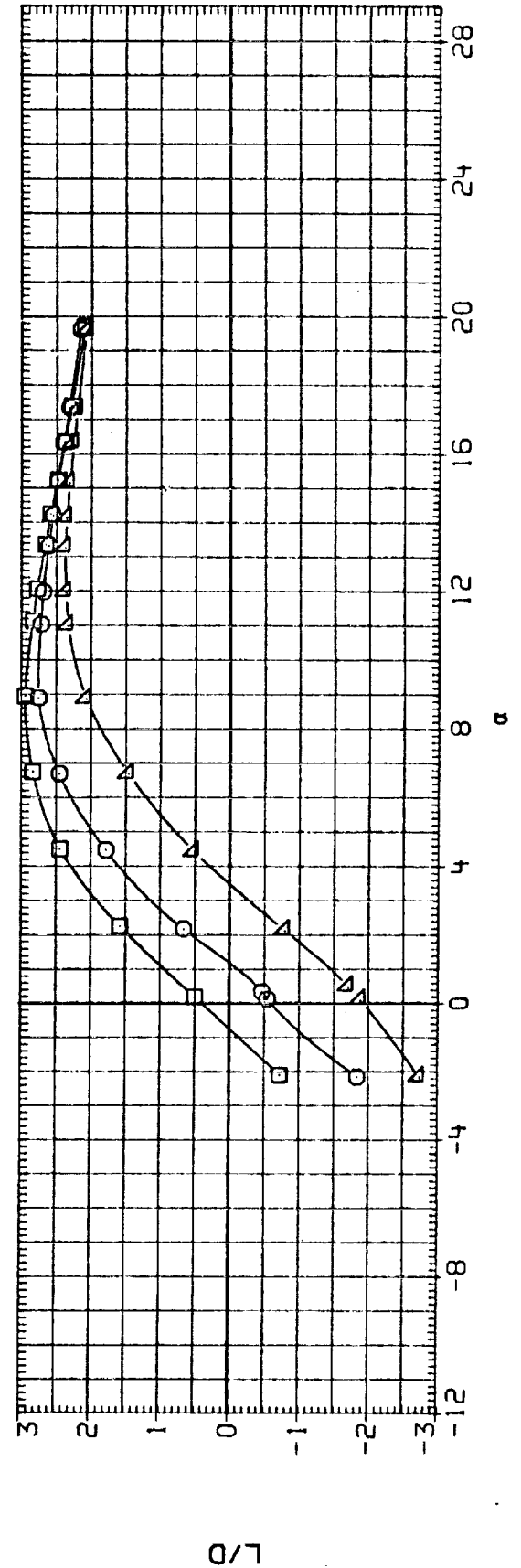
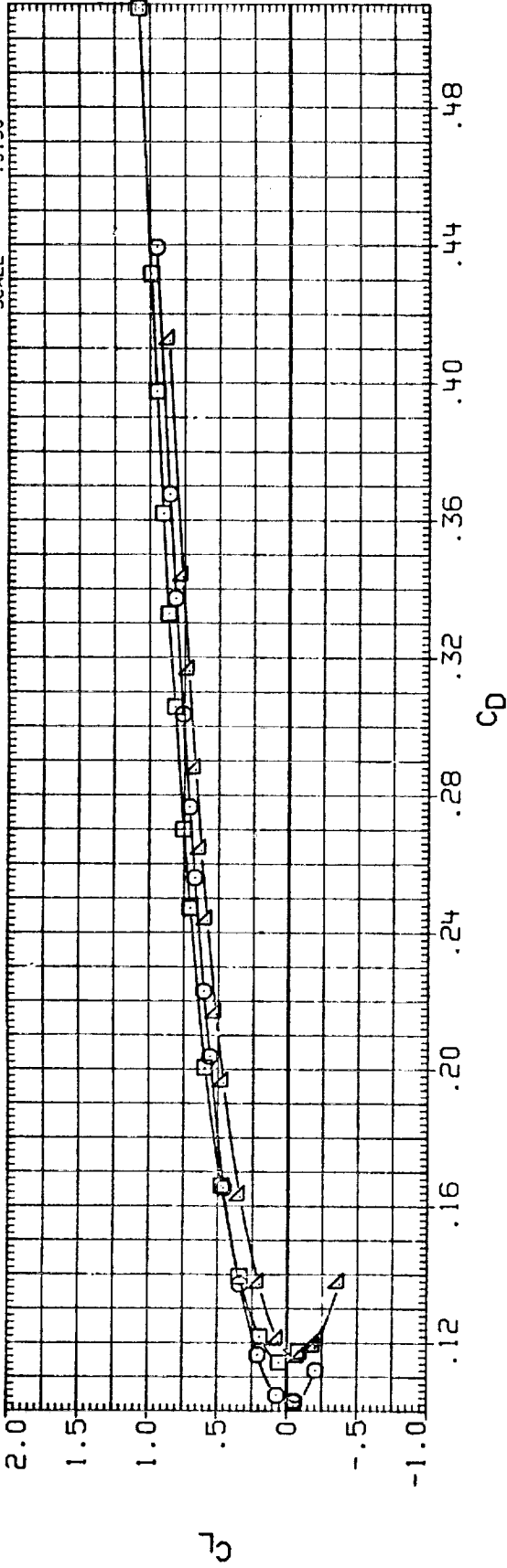


FIG. 18 ELEVON EFFECTIVENESS

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | FN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|---------|-------|------|------------------------|
| (RUK050) | DATA NOT AVAILABLE | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ. FT. |
| (RUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (RUK051) | DATA NOT AVAILABLE | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | XHRP 1076.7000 IN. XO |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | YHRP .0000 IN. YO |
| (RUK055) | DATA NOT AVAILABLE | 15.000 | .000 | 4.500 | .000 | ZHRP 375.0000 IN. ZO |

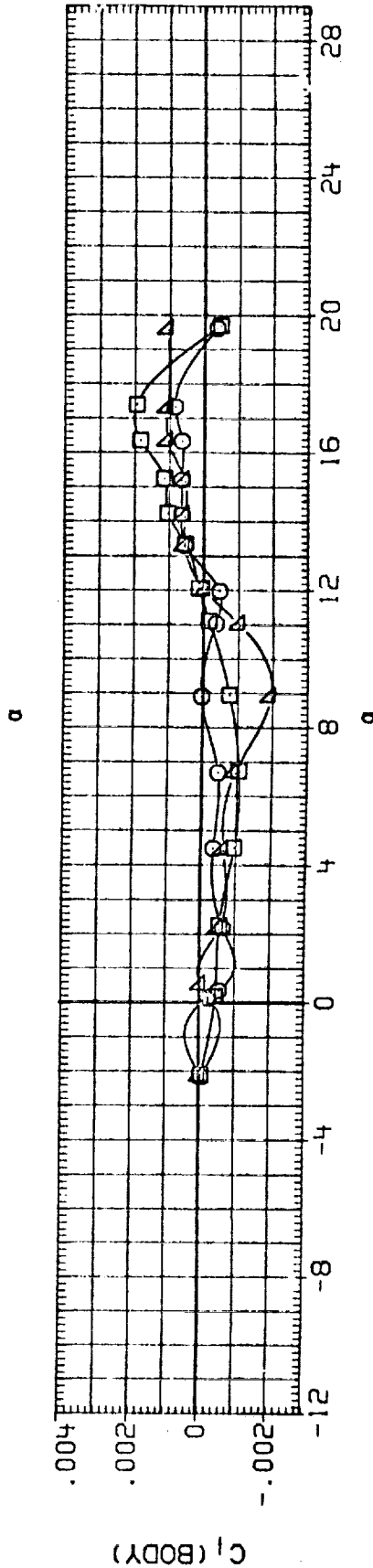
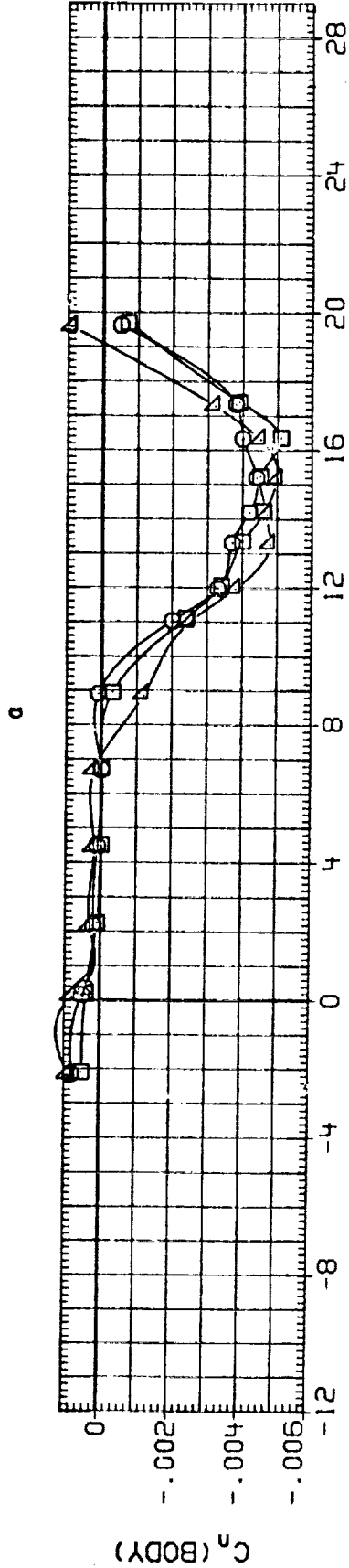
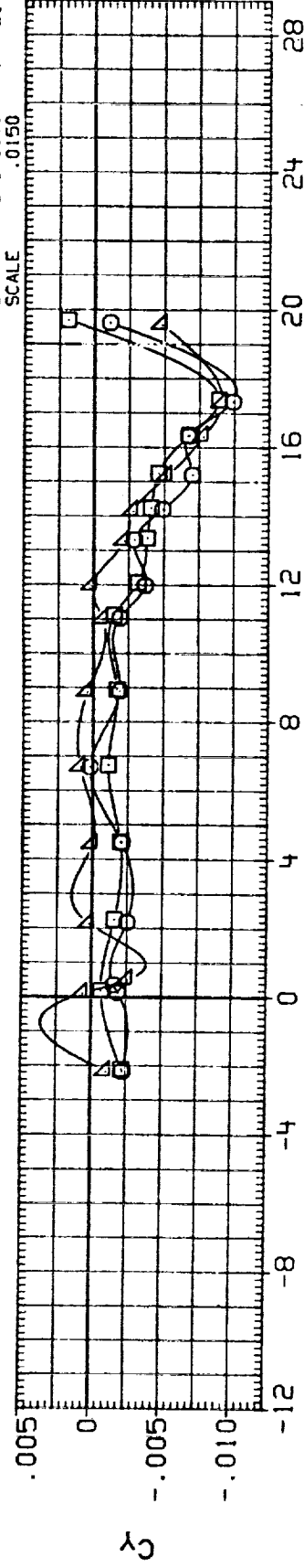


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .95

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLON | RN/L | BETA | REFERENCE INFORMATION |
|----------|--------|--|---------|--------|-------|------|------------------------|
| (CUK050) | □ | DATA NOT AVAILABLE | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ. FT. |
| (CUK052) | △ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (CUK054) | ○ | DATA NOT AVAILABLE | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (CUK028) | ◇ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| (CUK036) | ◇ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | .000 | 4.500 | .000 | YMRP 375.0000 IN. YO |
| (CUK055) | ◇ | DATA NOT AVAILABLE | | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |

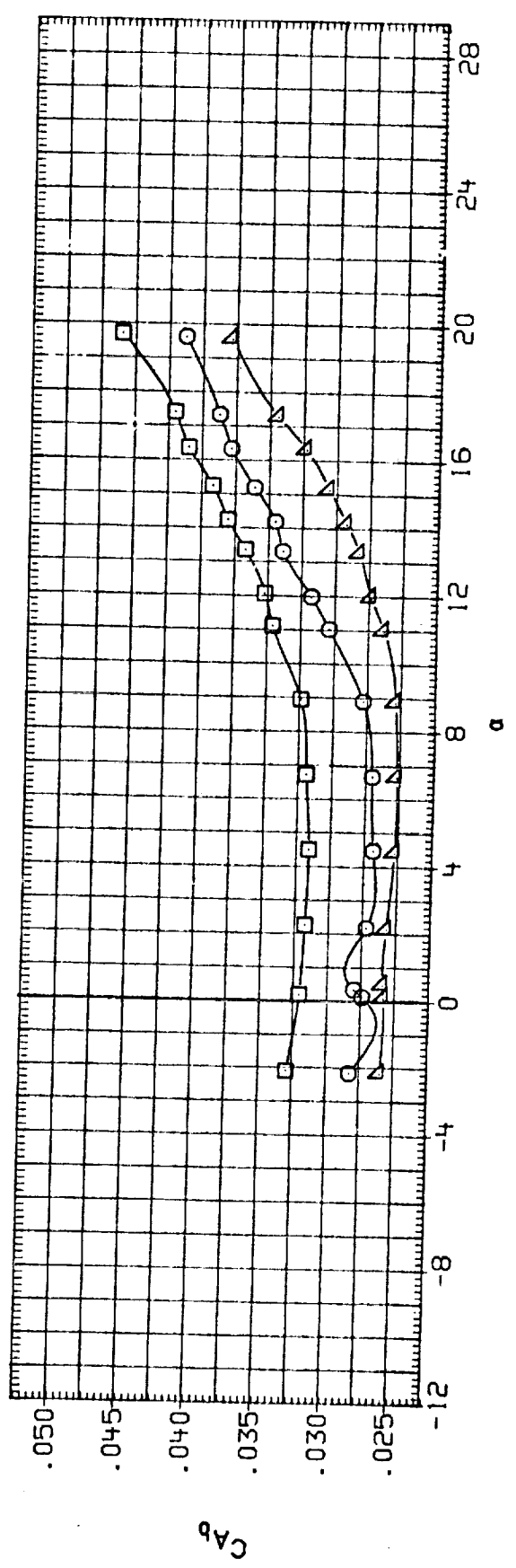
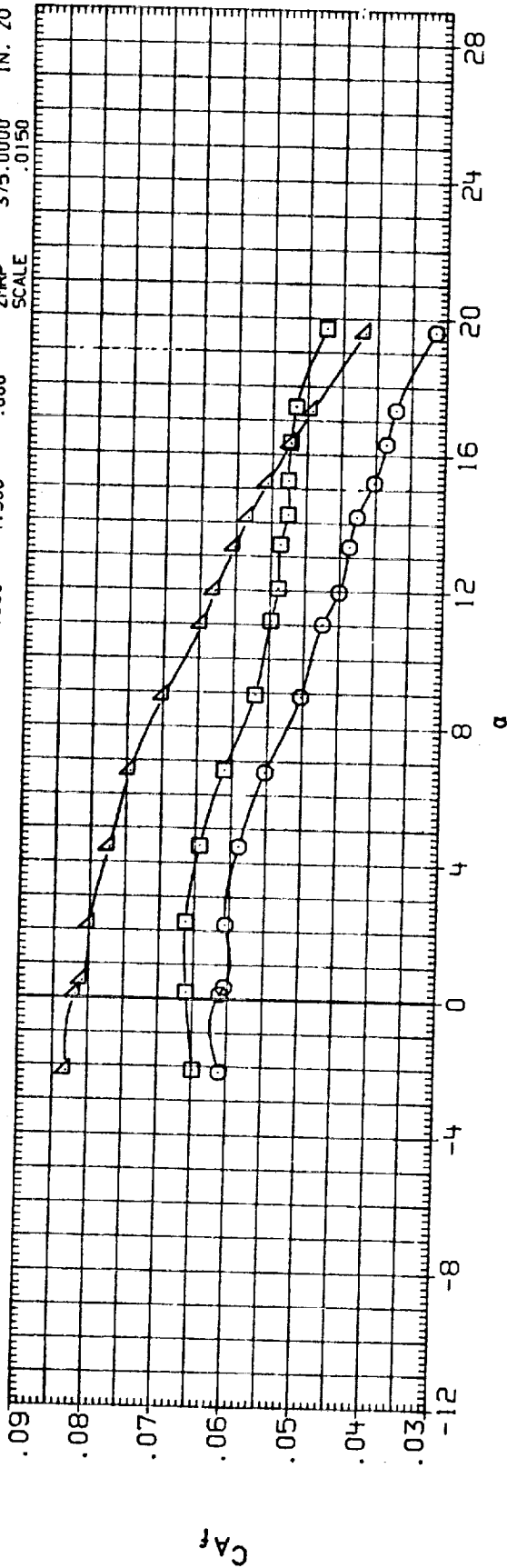


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK050) DATA NOT AVAILABLE
 (CUK052) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK054) DATA NOT AVAILABLE
 (CUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK055) DATA NOT AVAILABLE

ELEVON AILRON RNVL BETA REFERENCE INFORMATION

-20.000 .000 4.500 .000 SREF 2690.0000 SQ.FT.
 -10.000 .000 4.500 .000 LREF 474.8000 INCHES
 -5.000 .000 4.500 .000 BREF 936.6300 INCHES
 10.000 .000 4.500 .000 XMRP 1076.7000 IN. XO
 15.000 .000 4.500 .000 YMRP .0000 IN. YO
 ZMRP 575.0000 IN. ZO
 SCALE .0150

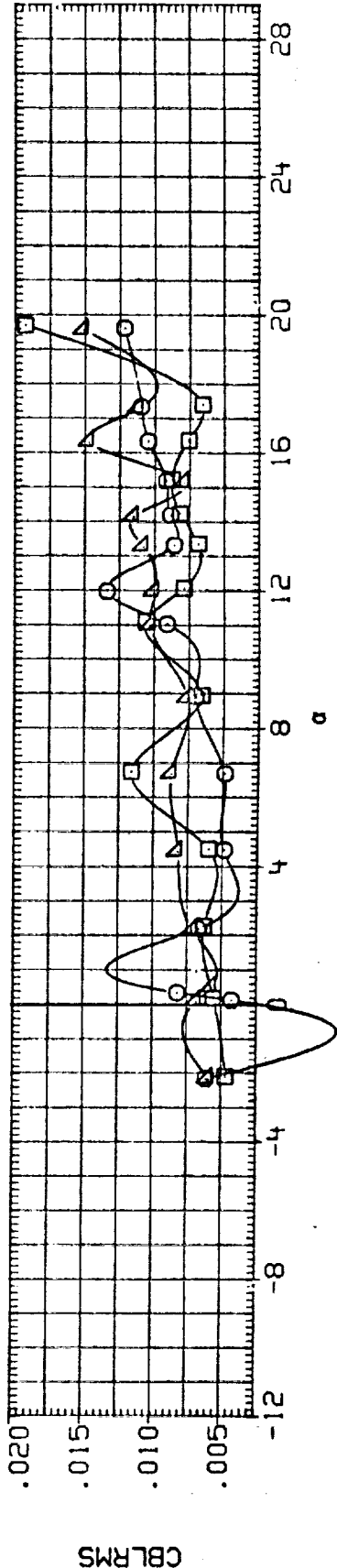
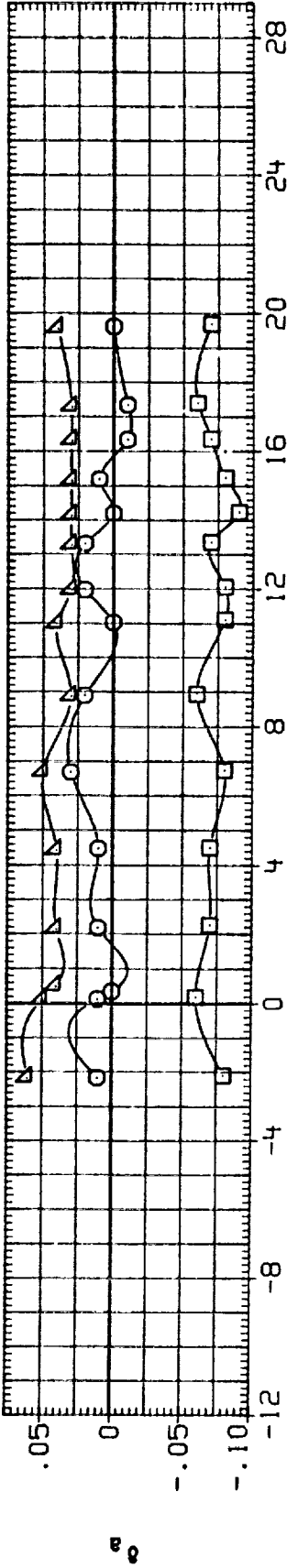
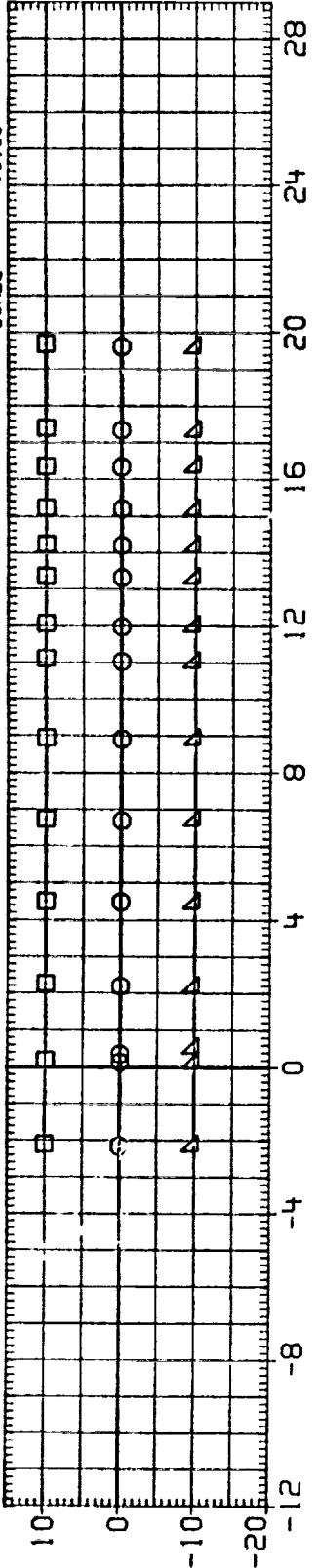


FIG. 18 ELEVON EFFECTIVENESS

(A)MACH = .95

| ELEVON | AILLRON | RN/L | BETA | REFERENCE INFORMATION |
|---------|---------|-------|------|-----------------------|
| -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| 10.000 | .000 | 4.500 | .000 | YMRP 1076.7000 IN. XO |
| 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION |
|-----------------|--|
| (RUK050) | DATA NOT AVAILABLE |
| (RUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK054) | DATA NOT AVAILABLE |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK055) | DATA NOT AVAILABLE |

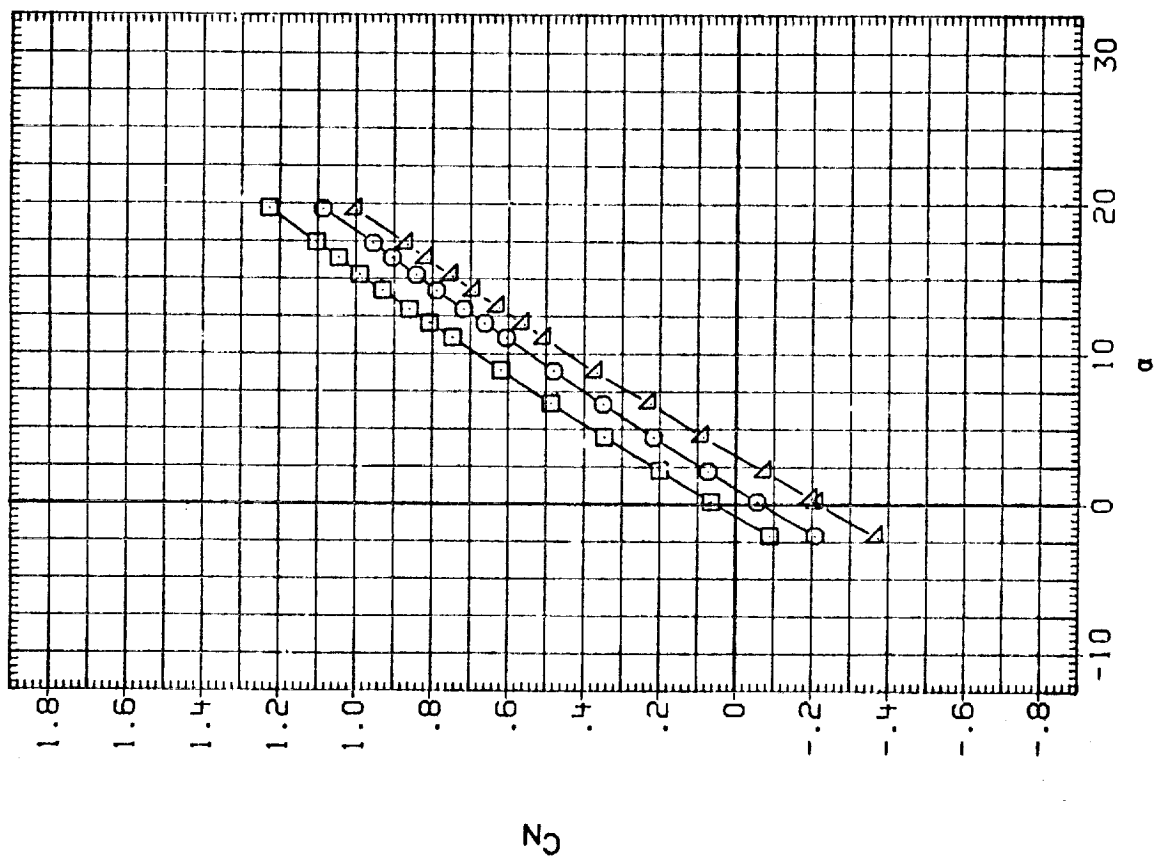
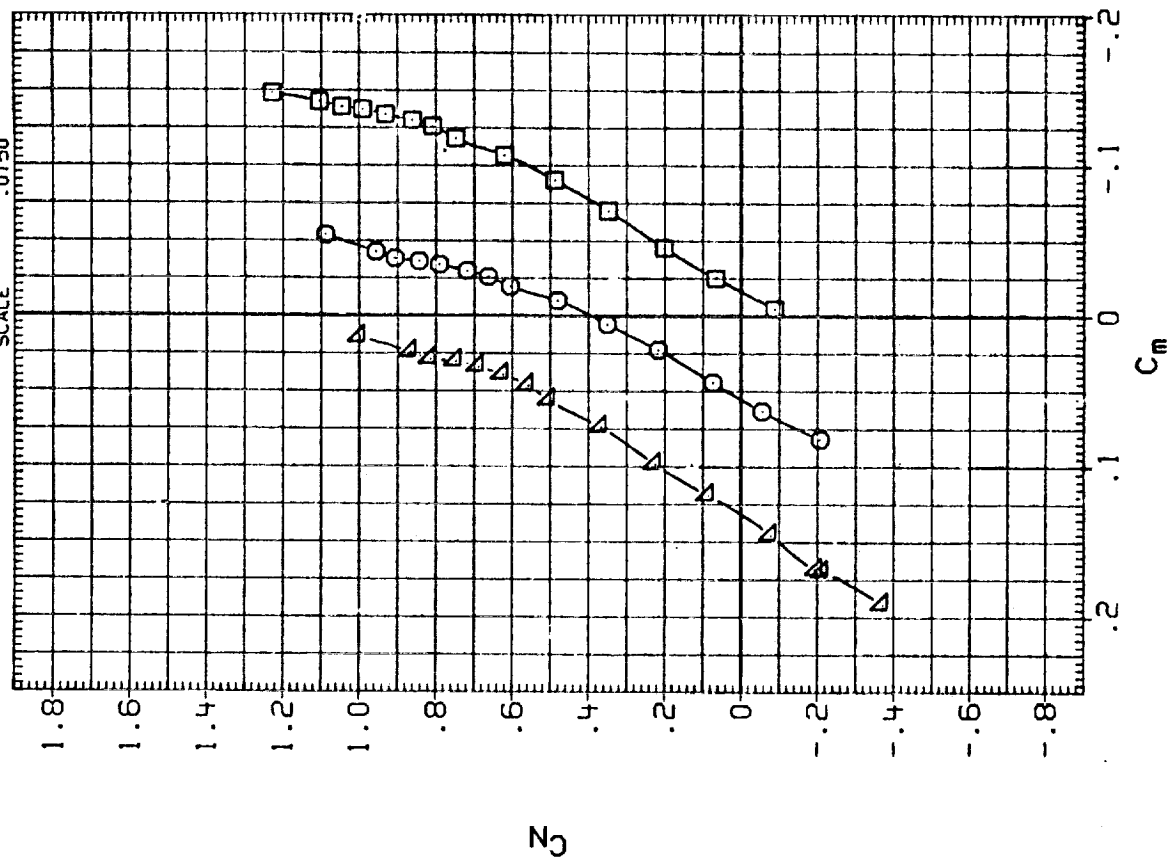


FIG. 18 ELEVON EFFECTIVENESS

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK050) DATA NOT AVAILABLE
 (RUK052) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK054) DATA NOT AVAILABLE
 (RUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK055) DATA NOT AVAILABLE

ELEVON AIRLON RN/L BETA
 -20.000 .000 4.500 .000
 -10.000 .000 4.500 .000
 -5.000 .000 4.500 .000
 .000 .000 4.500 .000
 10.000 .000 4.500 .000
 15.000 .000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 474.8000 INCHES
 BREF 936.8600 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

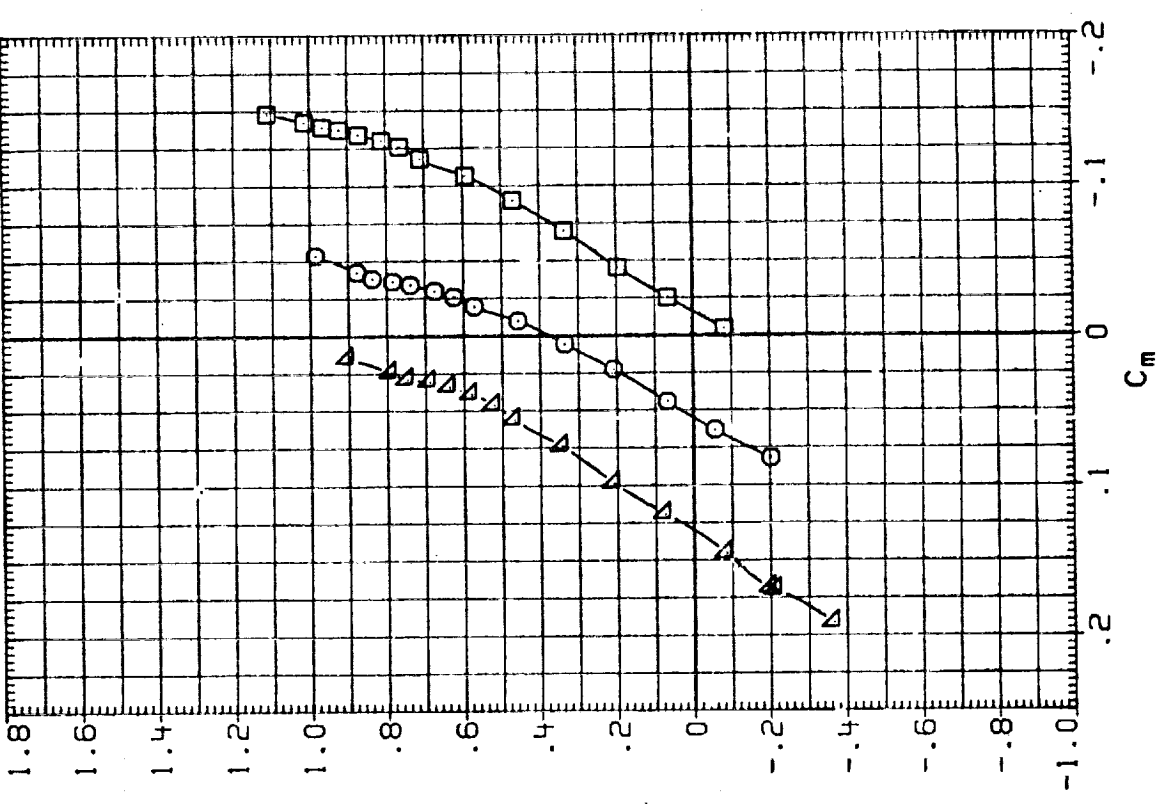
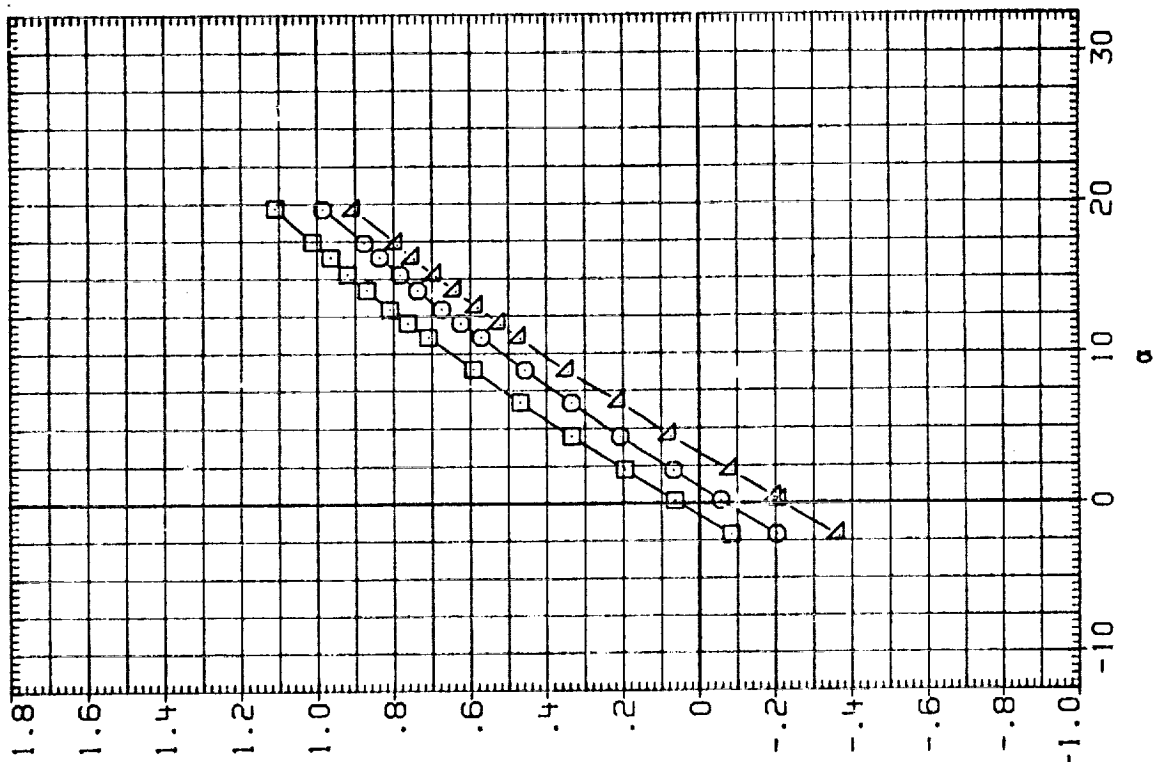


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .98

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | FN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|---------|-------|------|-----------------------|
| (RUK050) | DATA NOT AVAILABLE | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK052) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (RUK054) | DATA NOT AVAILABLE | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (RUK028) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| (RUK036) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | .000 | 4.500 | .000 | YMRP .0000 IN. YO |
| (RUK055) | DATA NOT AVAILABLE | | | 4.500 | .000 | ZMRP 375.0000 IN. ZO |

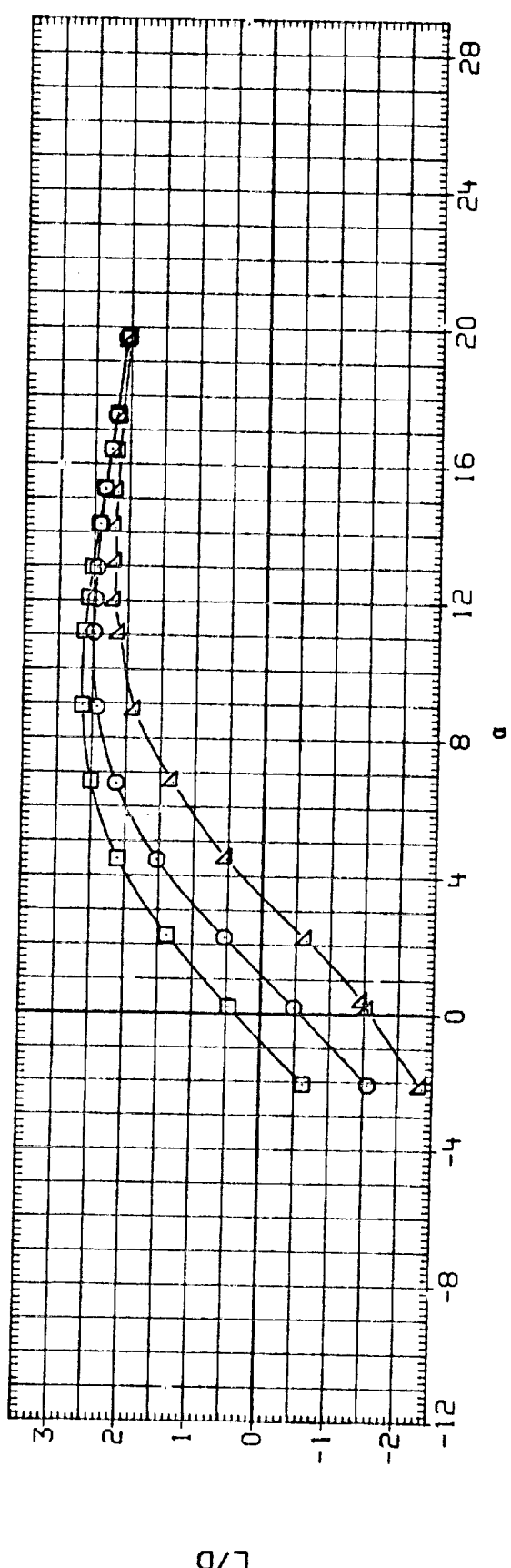
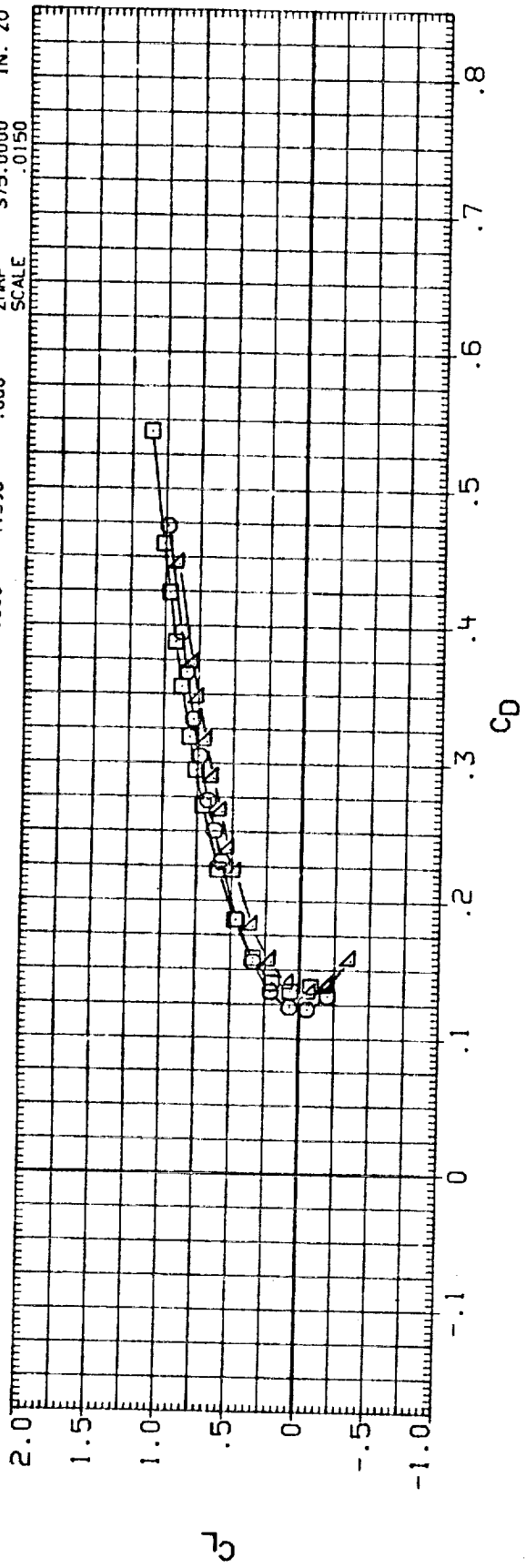


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .98

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
|----------|--------|--|---------|---------|-------|------|-----------------------|
| (RUK050) | □ | DATA NOT AVAILABLE | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK052) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (RUK054) | △ | DATA NOT AVAILABLE | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (RUK028) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | .000 | .000 | 4.500 | .000 | YMRP 1076.7000 IN. X0 |
| (RUK036) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 10.000 | .000 | 4.500 | .000 | YMRP .0000 IN. Y0 |
| (RUK055) | ◇ | DATA NOT AVAILABLE | 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. Z0 |

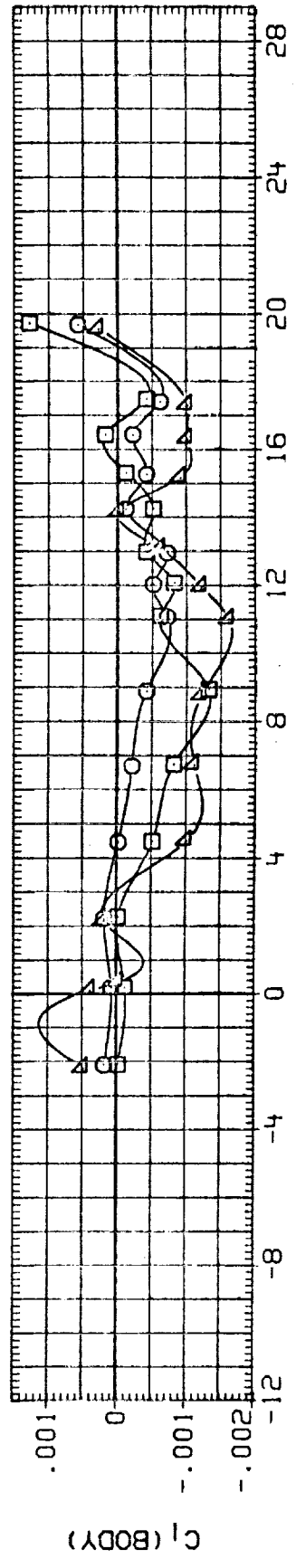
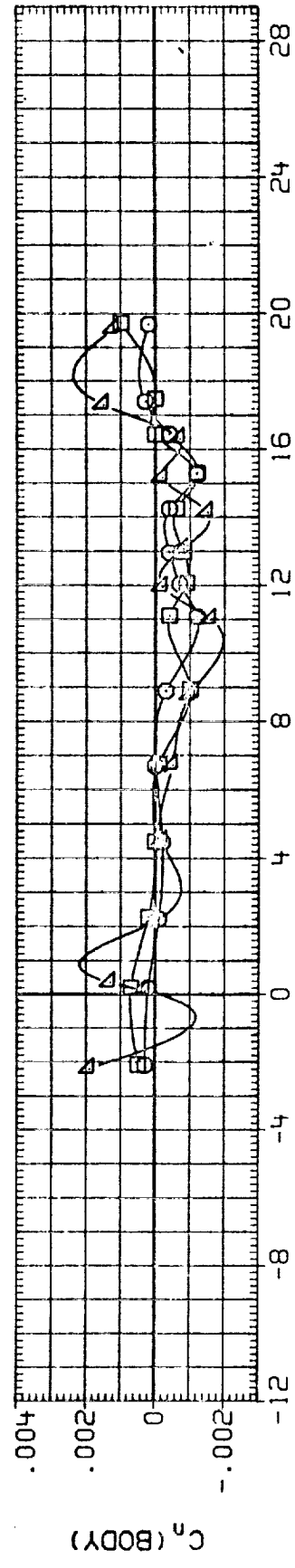
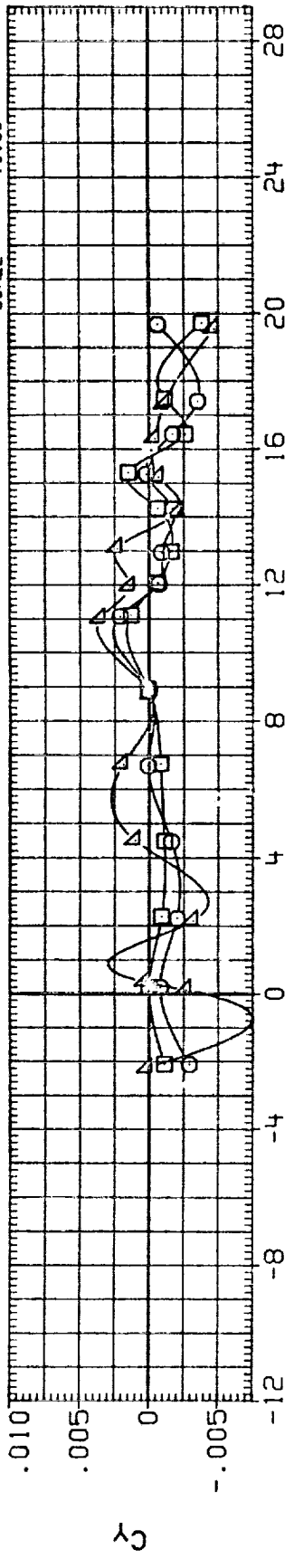


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK050) DATA NOT AVAILABLE
 (CUK052) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK054) DATA NOT AVAILABLE
 (CUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK055) DATA NOT AVAILABLE

ELEVON AILIRON RM/L BETA

-20.000 .000 4.500 .000
 -10.000 .000 4.500 .000
 -5.000 .000 4.500 .000
 10.000 .000 4.500 .000
 15.000 .000 4.500 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

SCALE .0150

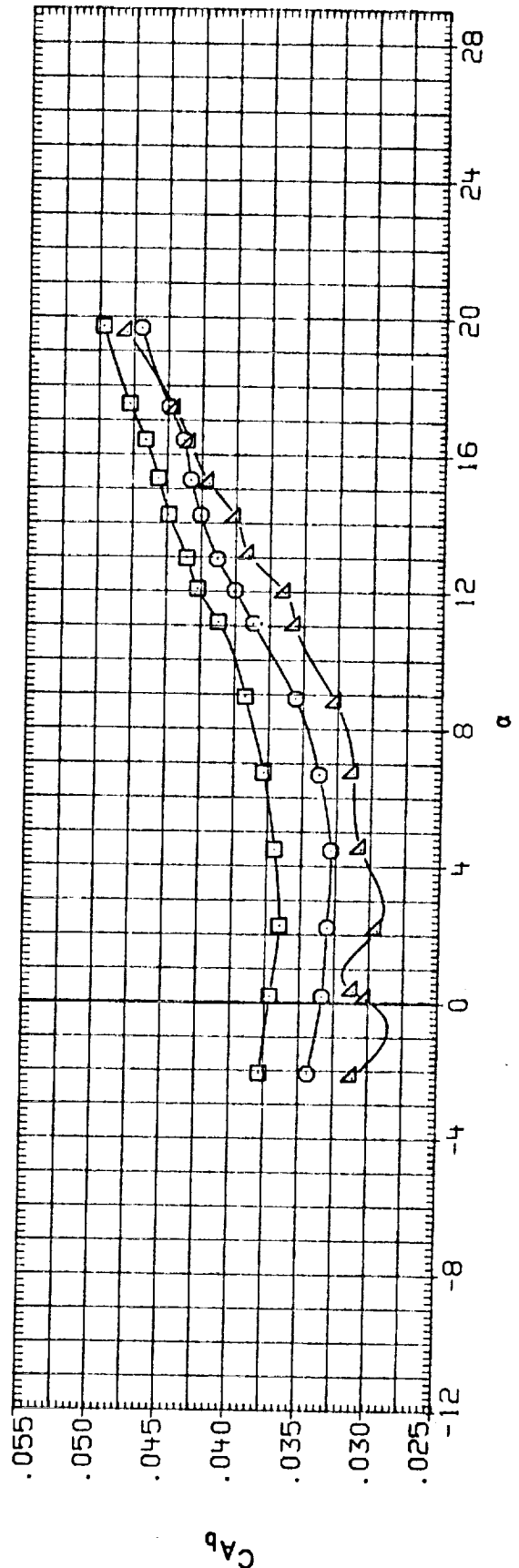
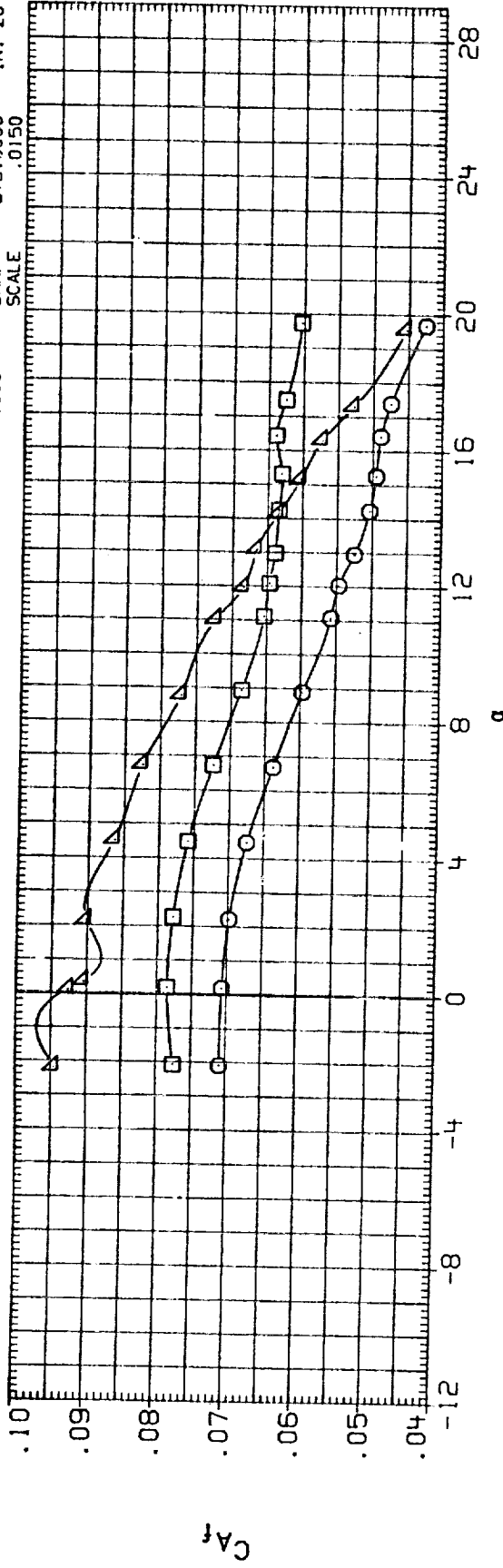


FIG. 18 ELEVON EFFECTIVENESS

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|---------|-------|------|------------------------|
| (CUK050) | DATA NOT AVAILABLE | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ. FT. |
| (CUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (CUK054) | DATA NOT AVAILABLE | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (CUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| (CUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | .000 | 4.500 | .000 | YMRP .0000 IN. YO |
| (CUK055) | DATA NOT AVAILABLE | | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |

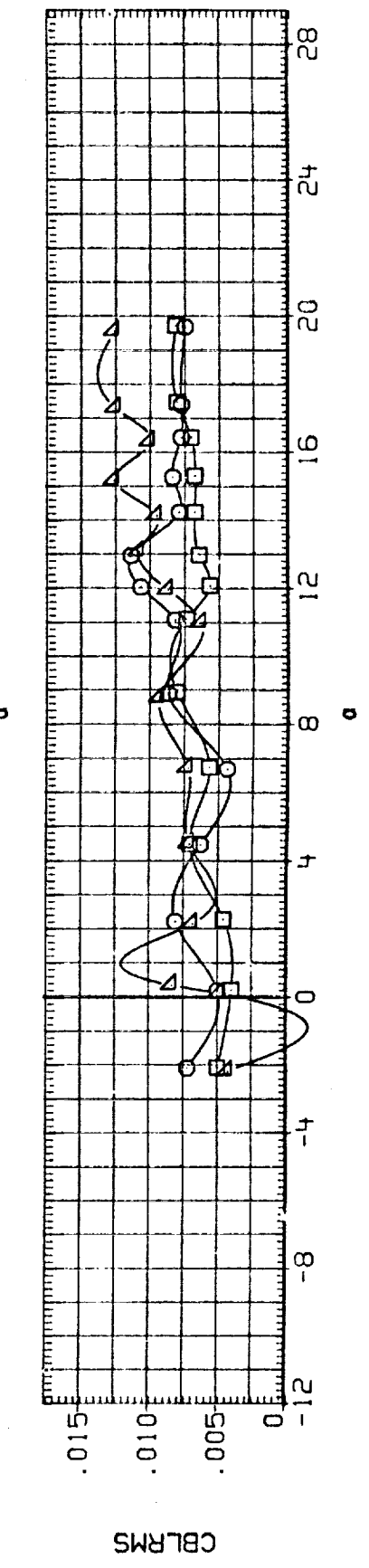
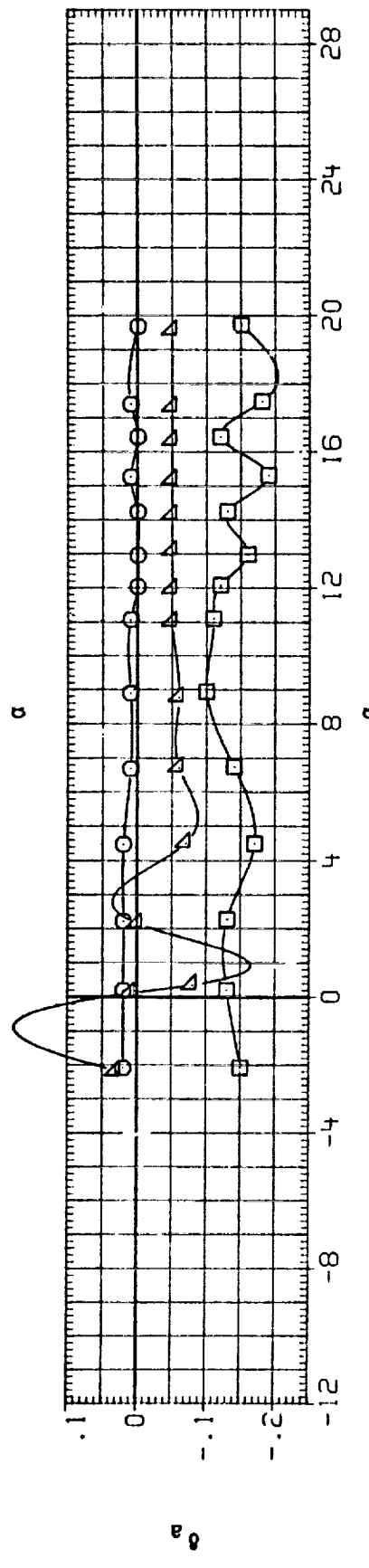
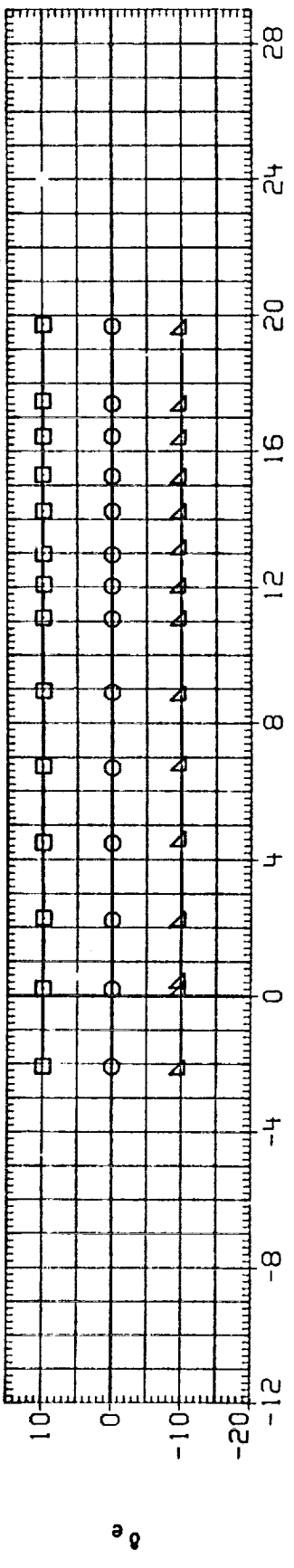
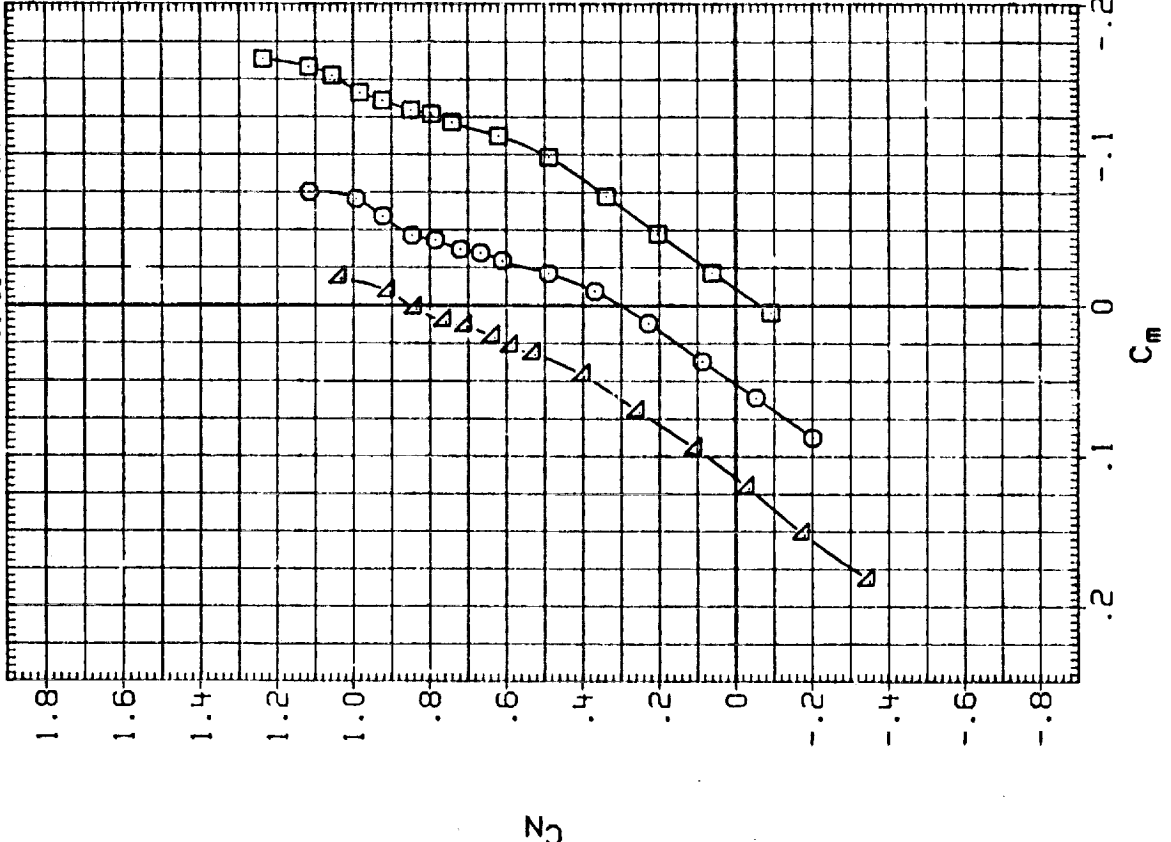


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .98

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|------|-----------------------|
| (RUK050) | DATA NOT AVAILABLE | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 50.FT. |
| (RUK052) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (RUK054) | DATA NOT AVAILABLE | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (RUK058) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| (RUK056) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | YMRP .0000 IN. YO |
| (RUK055) | DATA NOT AVAILABLE | 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |



| DATA SET SYMBOL | CONFIGURATION DESCRIPTION |
|-----------------|--|
| (RUK050) | DATA NOT AVAILABLE |
| (RUK052) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK054) | DATA NOT AVAILABLE |
| (RUK058) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK056) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK055) | DATA NOT AVAILABLE |

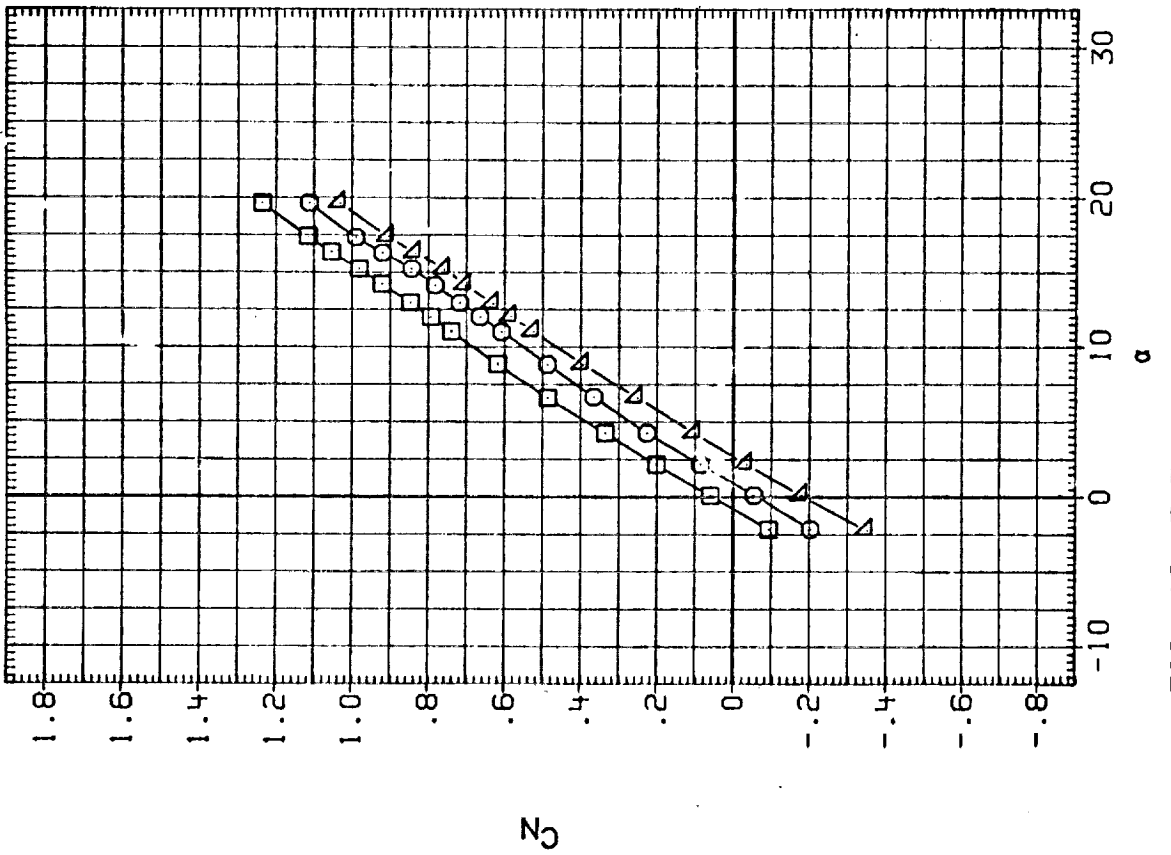
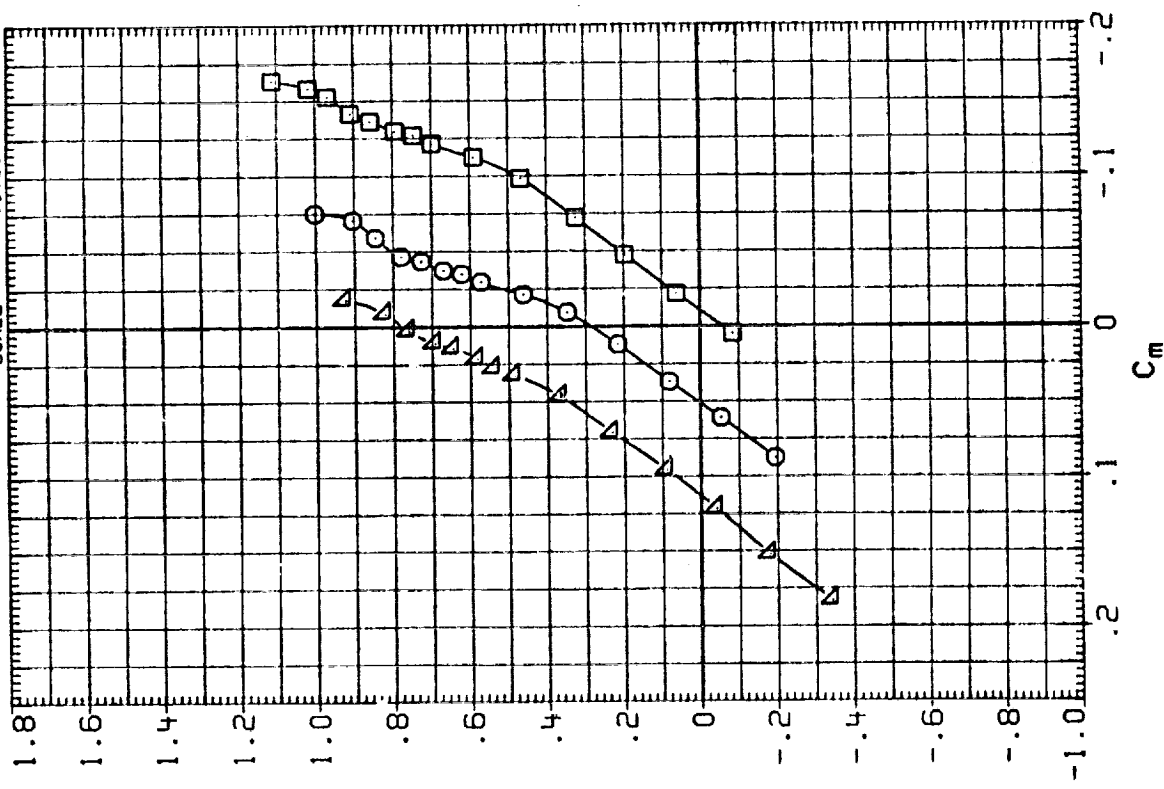


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.05

| ELEVON | AILRON | RN/L | BETA | REFERENCE INFORMATION |
|---------|--------|-------|------|-----------------------|
| -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| .000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| 10.000 | .000 | 4.500 | .000 | YMRP .0000 IN. YO |
| 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | SCALE .0150 |



| DATA SET SYMBOL | CONFIGURATION DESCRIPTION |
|-----------------|--|
| (RUK050) | DATA NOT AVAILABLE |
| (RUK052) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK054) | DATA NOT AVAILABLE |
| (RUK028) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK036) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK055) | DATA NOT AVAILABLE |

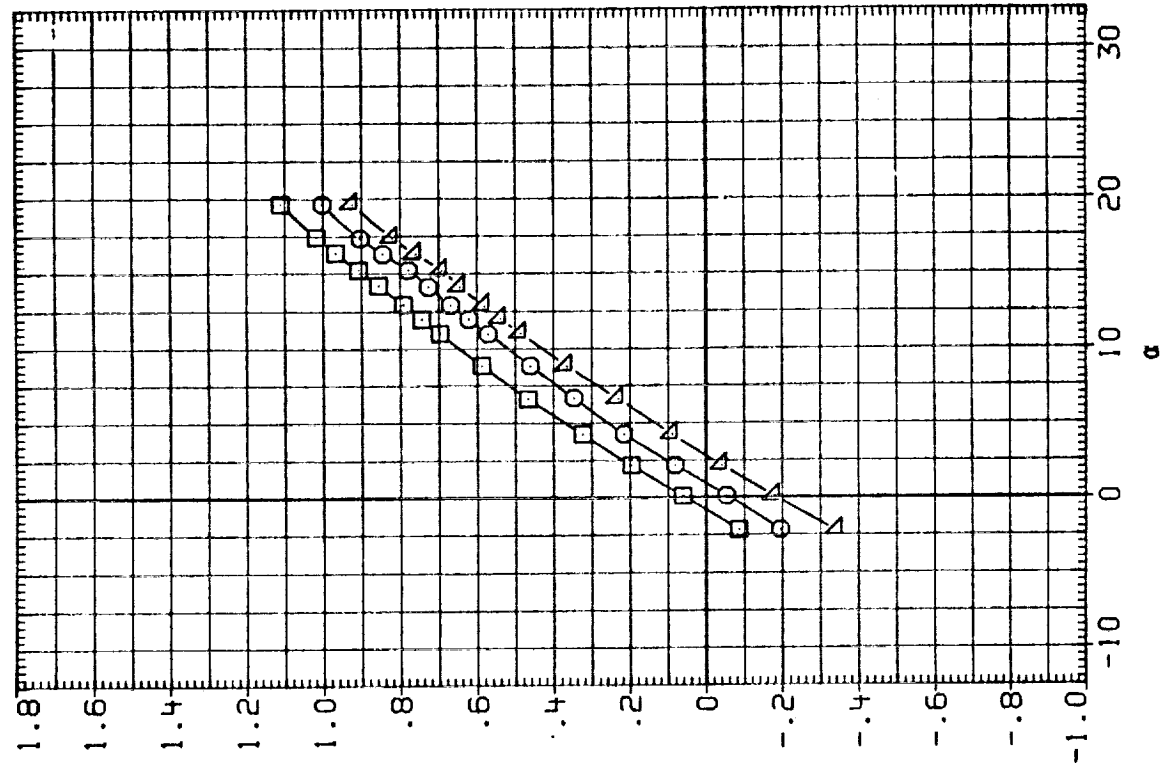


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.05

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|---------|-------|------|-----------------------|
| (RUK050) | DATA NOT AVAILABLE | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SO.FT. |
| (RUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (RUK054) | DATA NOT AVAILABLE | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 IN. XO |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. YO |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |
| (RUK055) | DATA NOT AVAILABLE | | | | | |

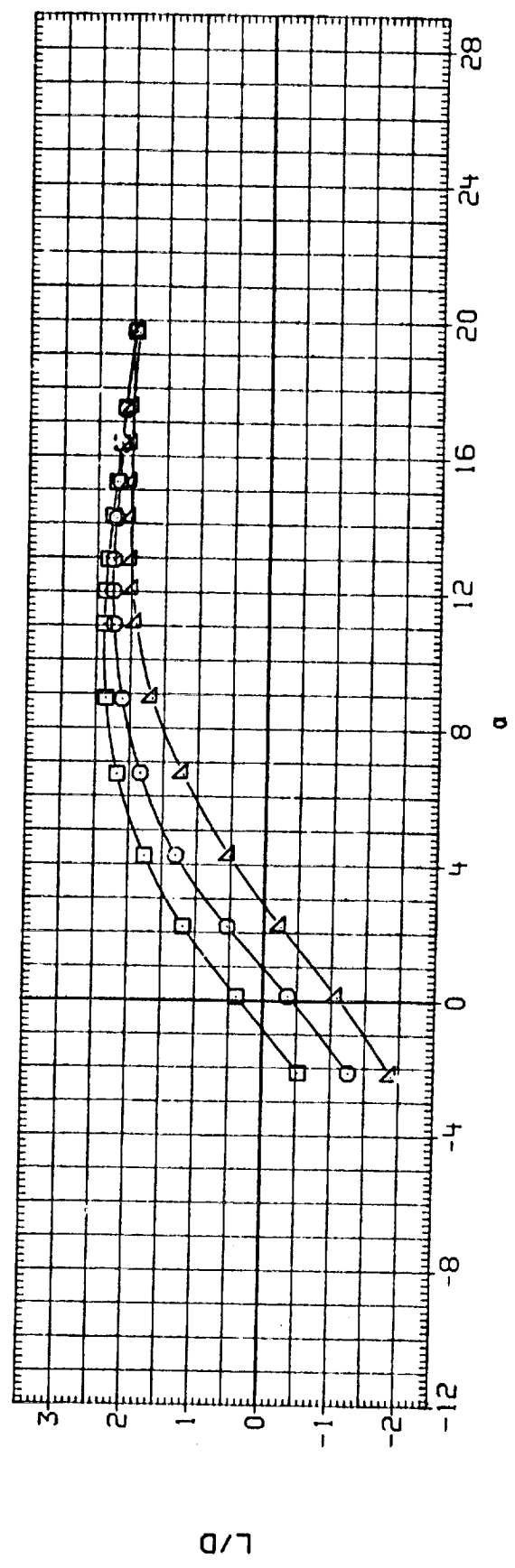
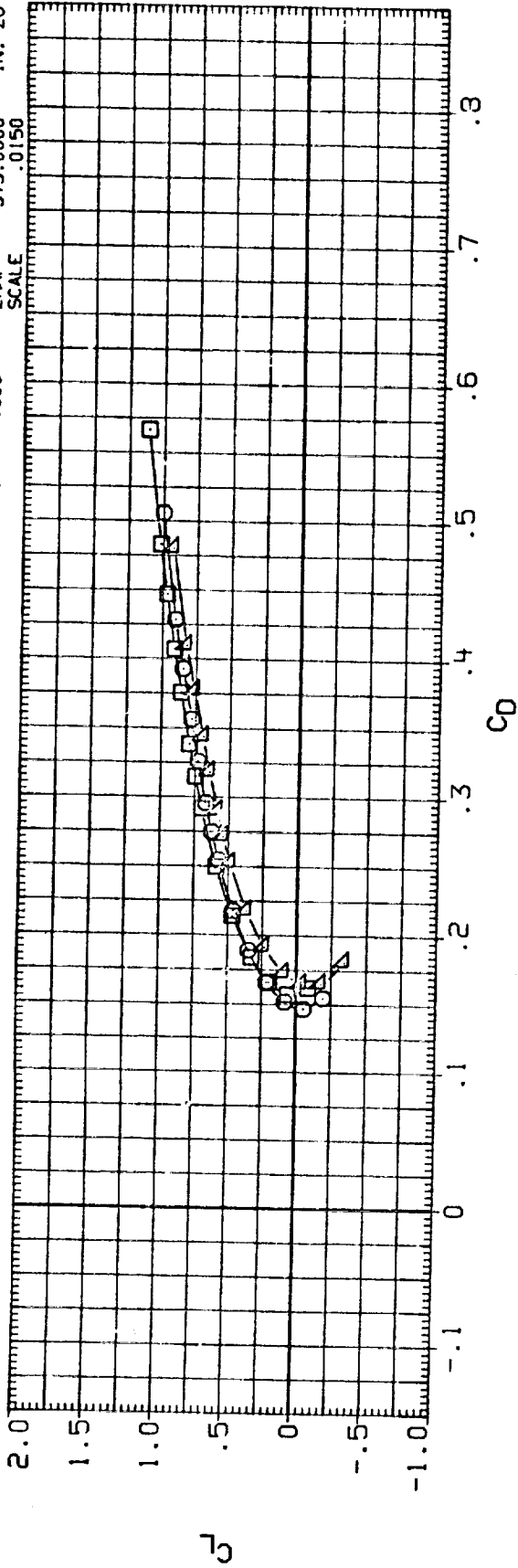


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK050) DATA NOT AVAILABLE
 (RUK052) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK054) DATA NOT AVAILABLE
 (RUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK055) DATA NOT AVAILABLE

ELEVON AILTRON RV/L BETA REFERENCE INFORMATION

-20.000 .000 4.500 .000 SREF 2690.0000 SQ.FT
 -10.000 .000 4.500 .000 LREF 474.8000 INCHES
 -5.000 .000 4.500 .000 BREF 936.6800 INCHES
 .000 .000 4.500 .000 XMRP 1076.7000 IN. X0
 10.000 .000 4.500 .000 YMRP .0000 IN. Y0
 15.000 .000 4.500 .000 ZMRP 375.0000 IN. Z0

SCALE .0150

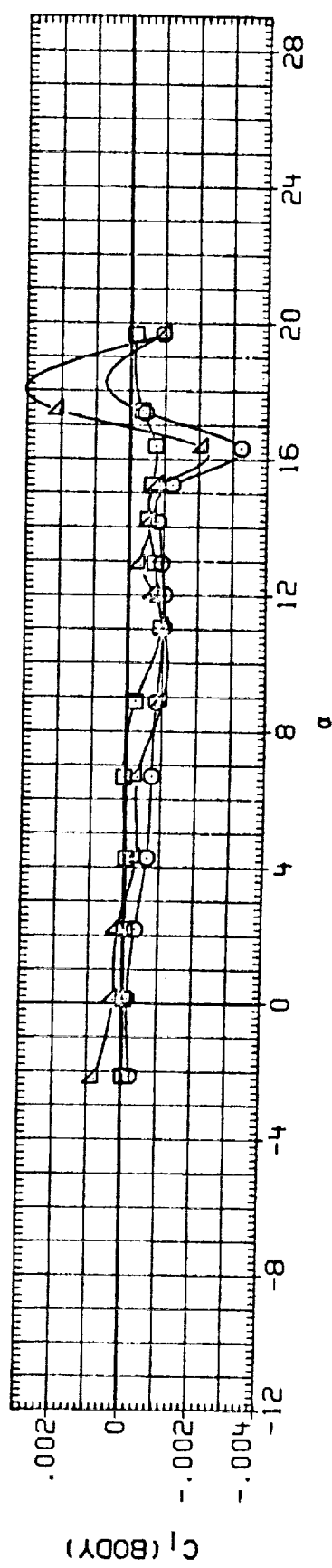
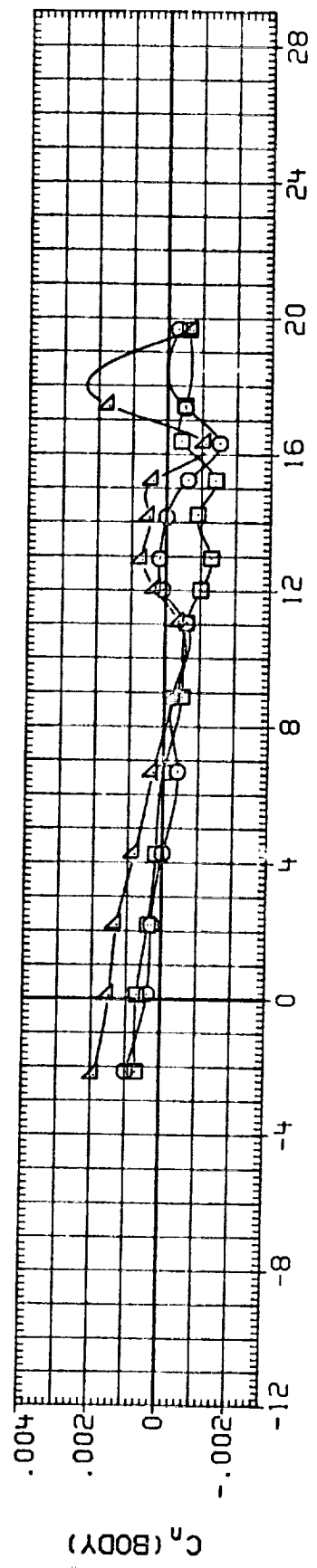
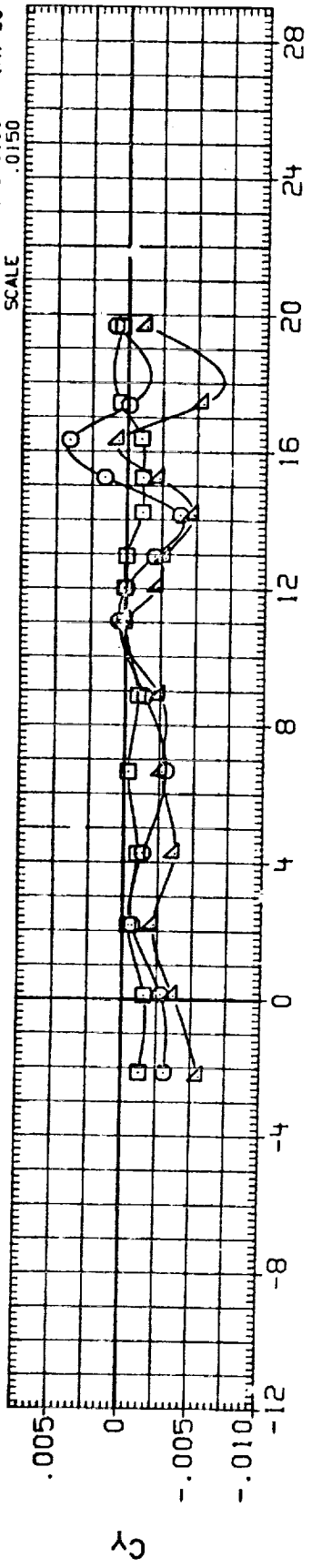


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.05

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|------|-----------------------|
| (CUK050) | DATA NOT AVAILABLE | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (CUK054) | DATA NOT AVAILABLE | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (CUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| (CUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | YMRP .0000 IN. YO |
| (CUK055) | DATA NOT AVAILABLE | 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

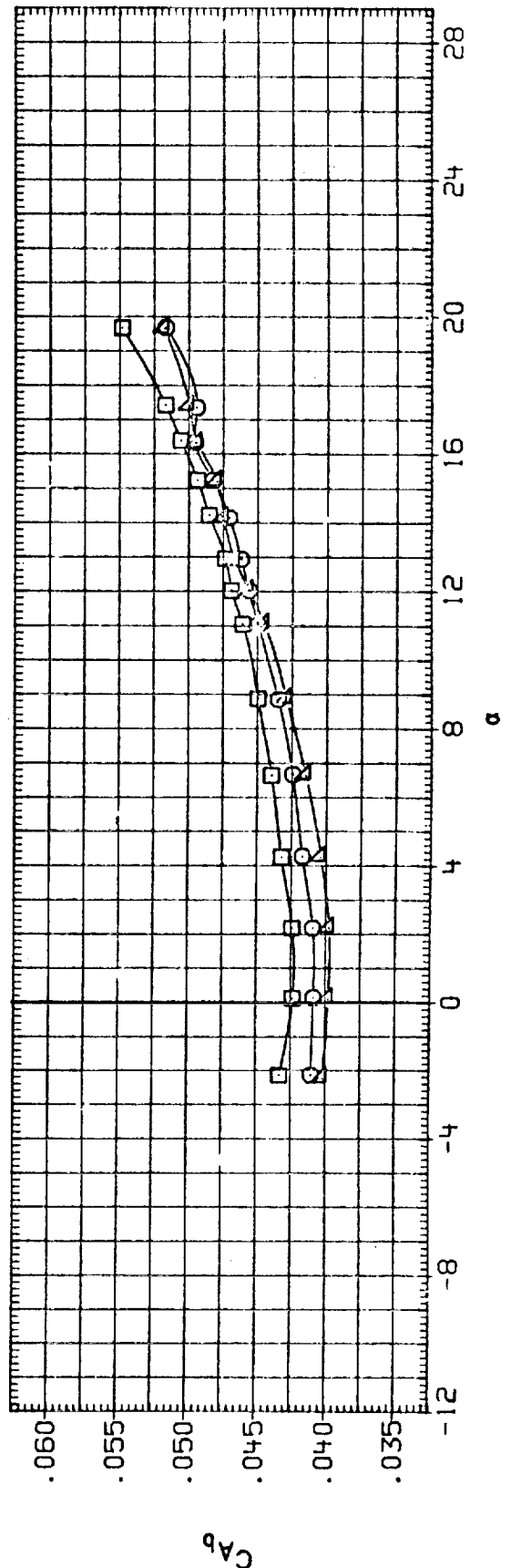
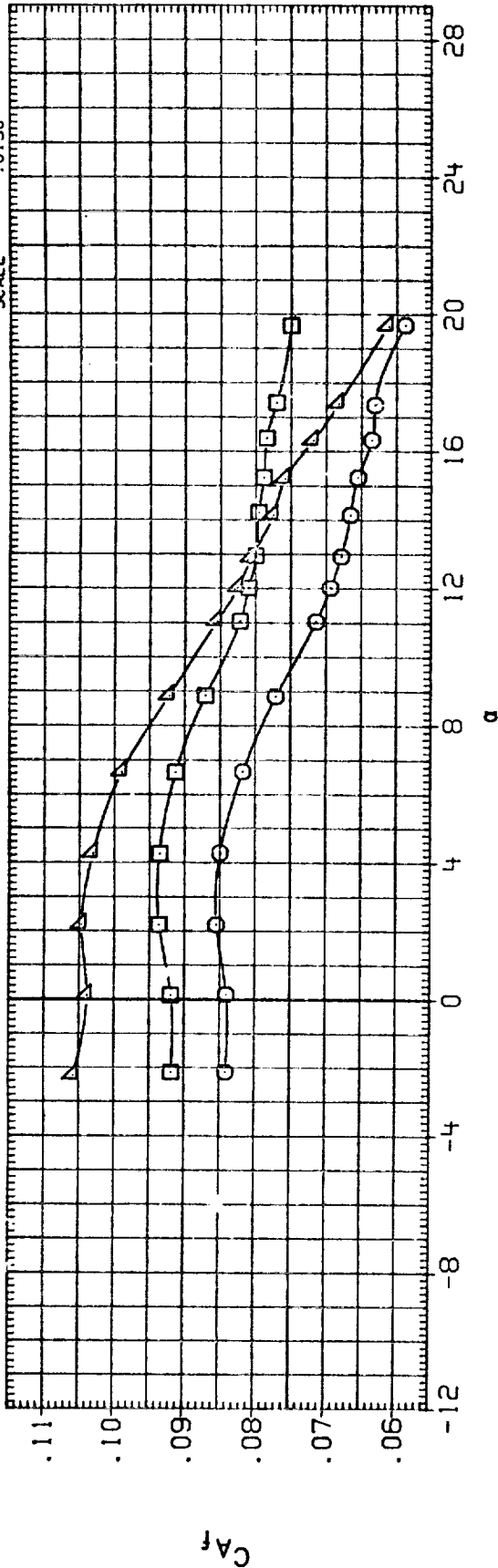


FIG. 18 ELEVON EFFECTIVENESS

DATA SET SYMBOL CONFIGURATION DESCRIPTION

- (CUK050) DATA NOT AVAILABLE
- (CUK052) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (CUK054) DATA NOT AVAILABLE
- (CUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (CUK035) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (CUK055) DATA NOT AVAILABLE

| ELEVON | AILRON | RN/L | BETA | REFERENCE INFORMATION |
|---------|--------|-------|------|------------------------|
| -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ. FT. |
| -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| -5.000 | .000 | 4.500 | .000 | BRF 936.6800 INCHES |
| .000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| 10.000 | .000 | 4.500 | .000 | YMRP .0000 IN. YO |
| 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | SCALE .0150 |

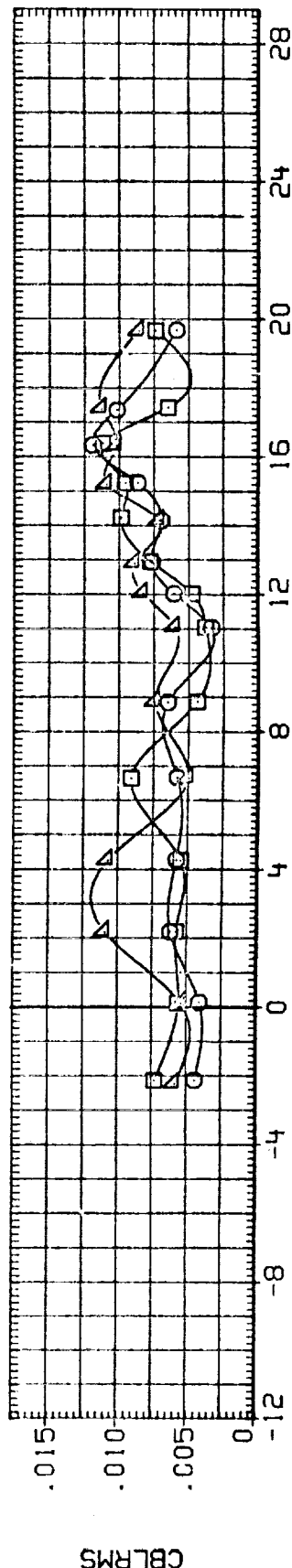
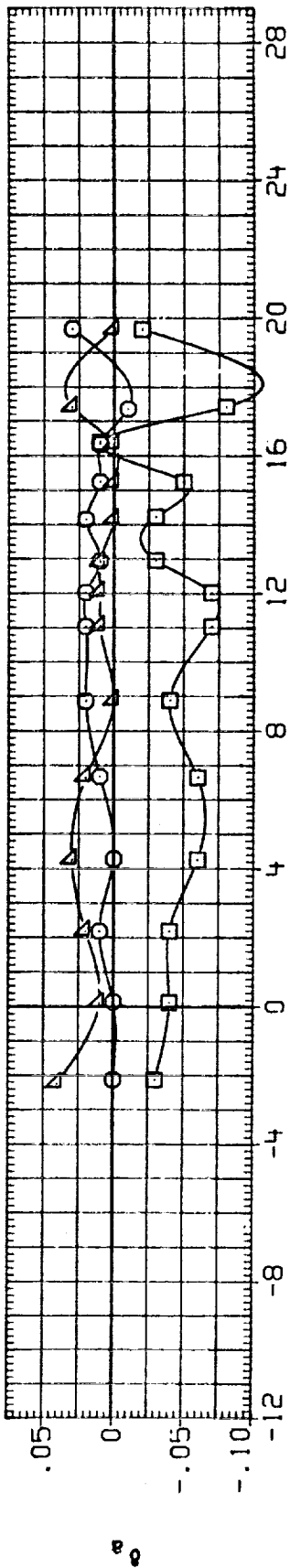
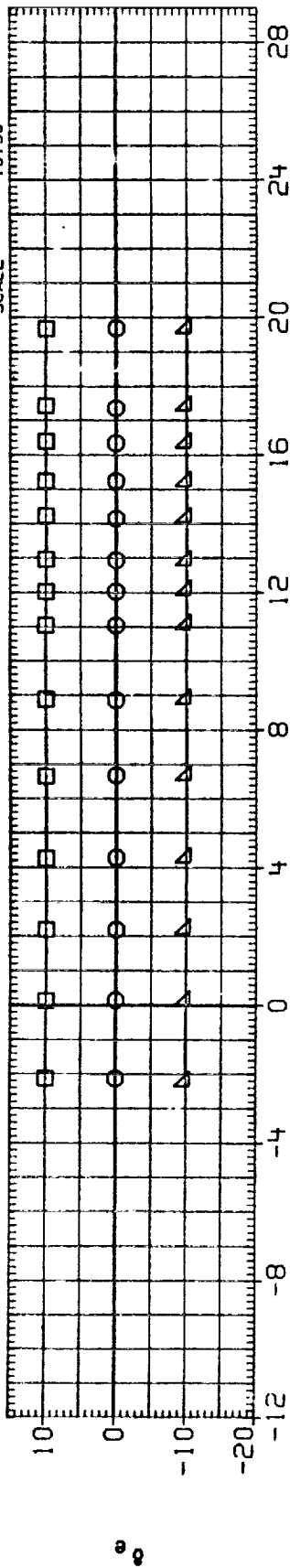


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.05

DATA SET SYMBOL
 (RUK050) □
 (RUK052) △
 (RUK054) ○
 (RUK028) ◇

CONFIGURATION DESCRIPTION

DATA NOT AVAILABLE
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 DATA NOT AVAILABLE
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 DATA NOT AVAILABLE

ELEVON AIRLON RN/L BETA
 -20.000 .000 4.500 .000
 -10.000 .000 4.500 .000
 -5.000 .000 4.500 .000
 10.000 .000 4.500 .000
 15.000 .000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 YHRP 1076.7000 IN. YO
 YHRP .0000 IN. XO
 ZHRP 375.0000 IN. ZO
 SCALE .0150

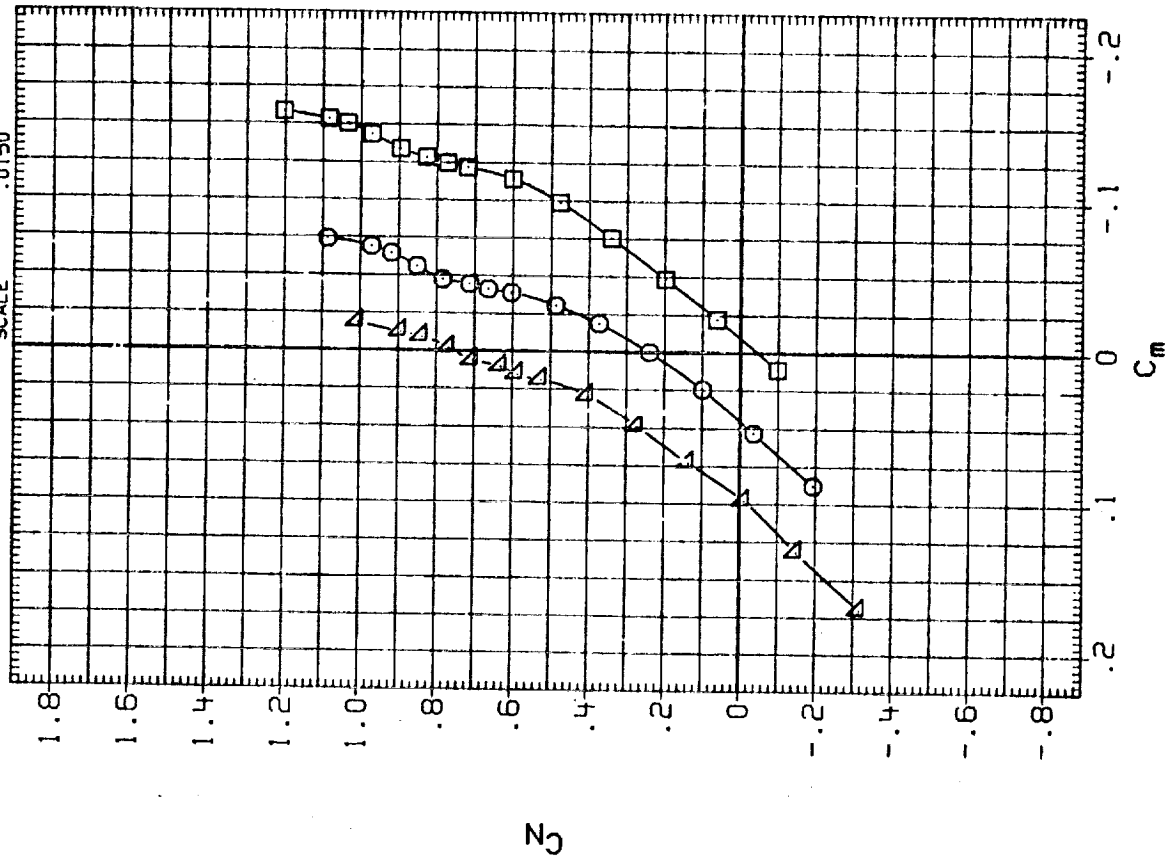
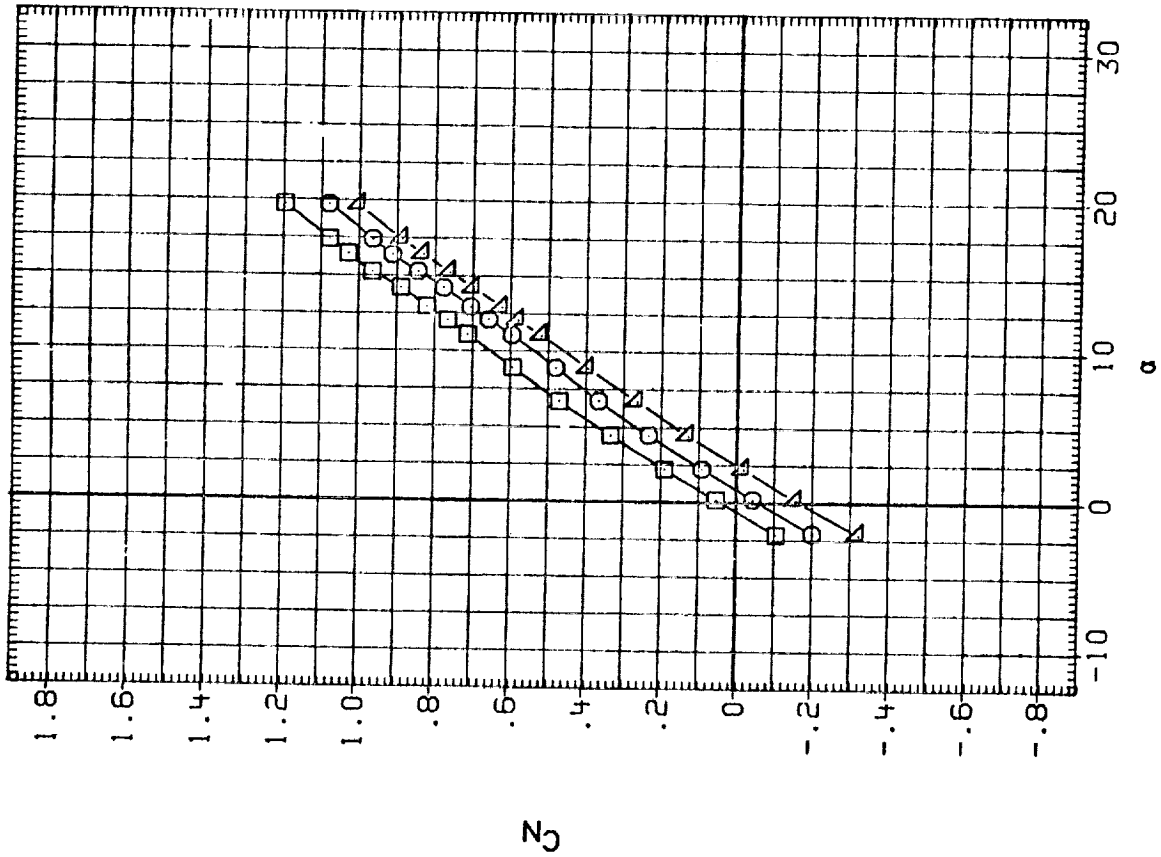
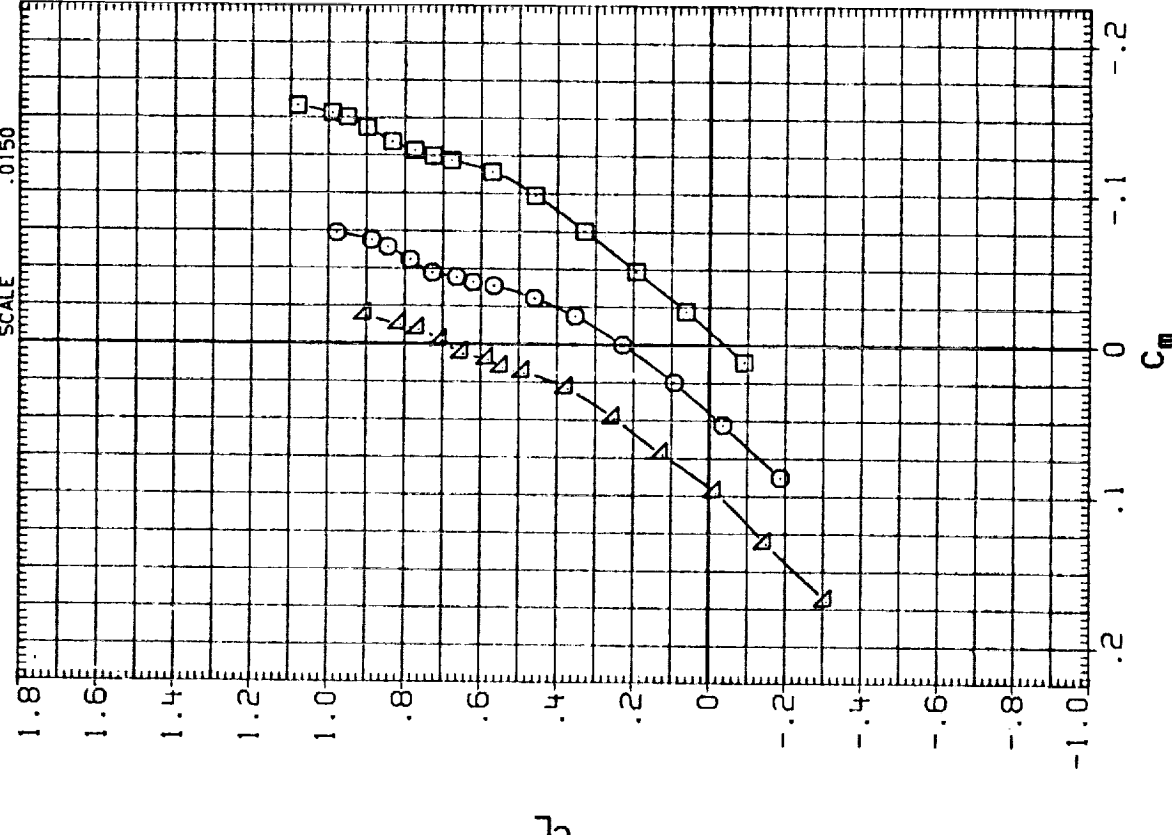


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.12

| ELEVON | AIRLON | RN/L | BETA | REFERENCE INFORMATION | SO. FT. |
|---------|--------|-------|------|-----------------------|-----------|
| -20.000 | .000 | 4.500 | .000 | SREF | 2690.0000 |
| -10.000 | .000 | 4.500 | .000 | LREF | 474.8000 |
| -5.000 | .000 | 4.500 | .000 | BREF | 936.6800 |
| 10.000 | .000 | 4.500 | .000 | XMRP | 1076.7000 |
| 15.000 | .000 | 4.500 | .000 | YMRP | 375.0000 |
| | | | | ZMRP | |



| DATA SET SYMBOL | CONFIGURATION DESCRIPTION |
|-----------------|--|
| (RUK050) | DATA NOT AVAILABLE |
| (RUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK054) | DATA NOT AVAILABLE |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK055) | DATA NOT AVAILABLE |

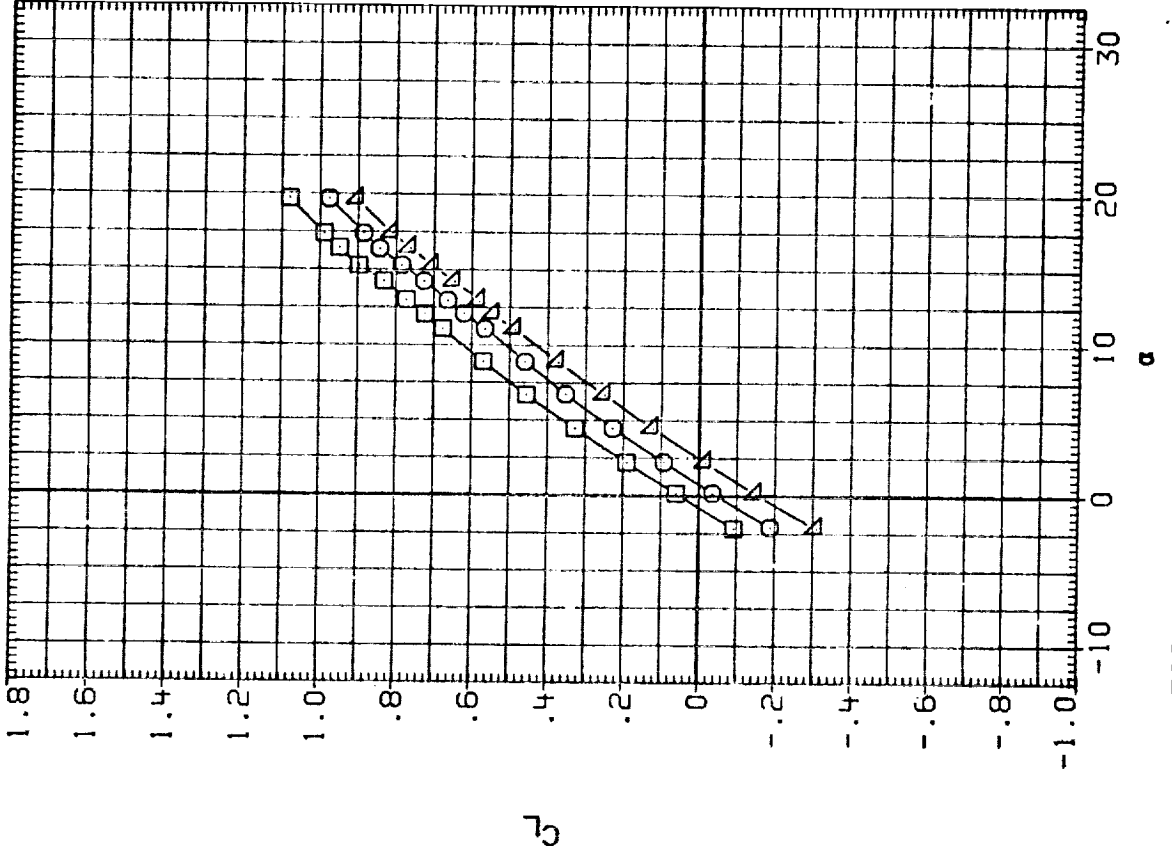


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.12

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|------|-----------------------|
| (RUK050) | DATA NOT AVAILABLE | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (RUK054) | DATA NOT AVAILABLE | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| (RUK035) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | YMRP .0000 IN. YO |
| (RUK055) | DATA NOT AVAILABLE | 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |

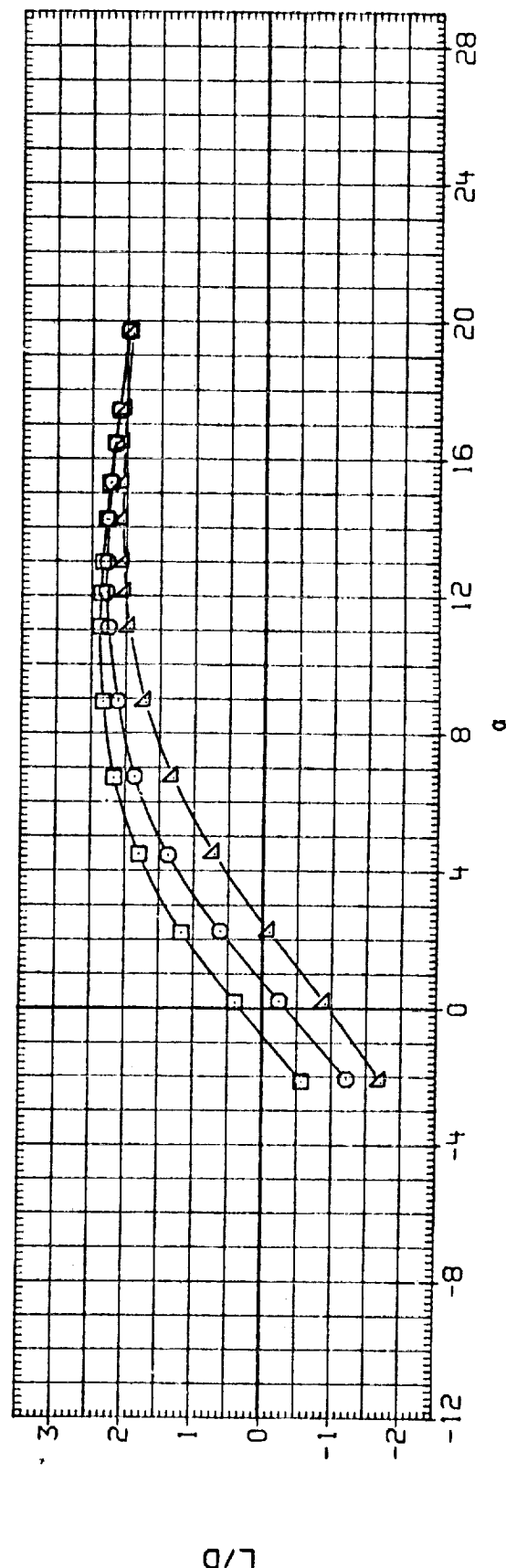
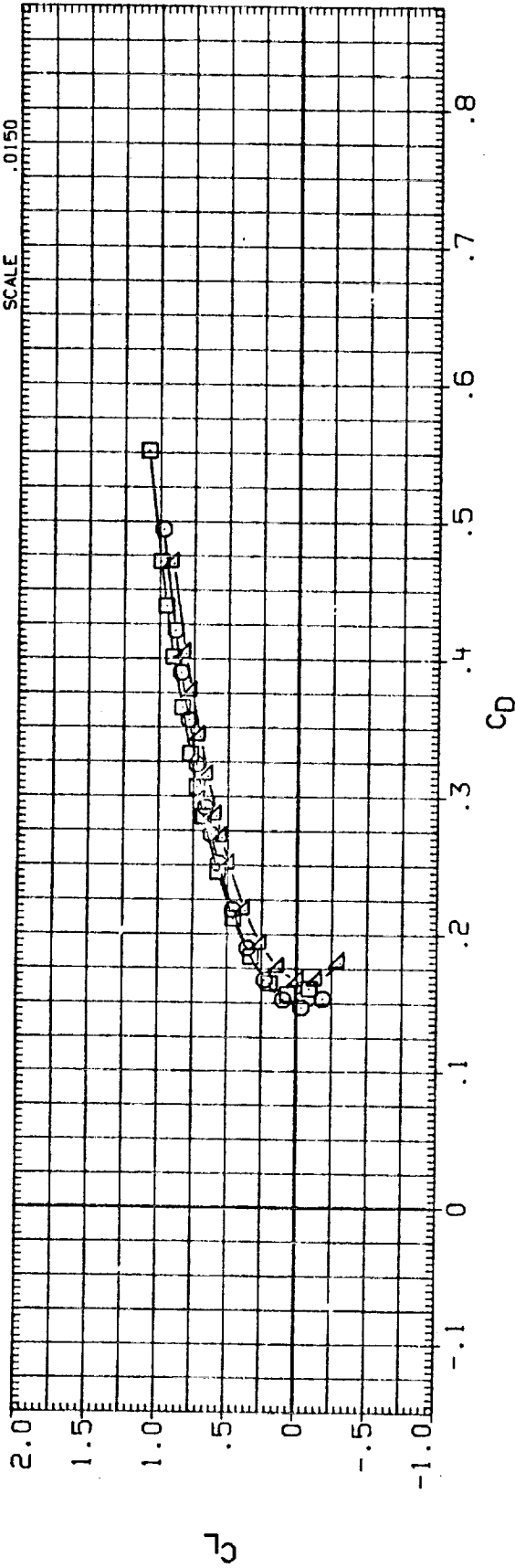


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.12

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|---------|-------|------|-----------------------|
| (RUK050) | DATA NOT AVAILABLE | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK052) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (RUK054) | DATA NOT AVAILABLE | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | YMRP .0000 IN. YO |
| (RUK055) | DATA NOT AVAILABLE | 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |

SCALE .0150

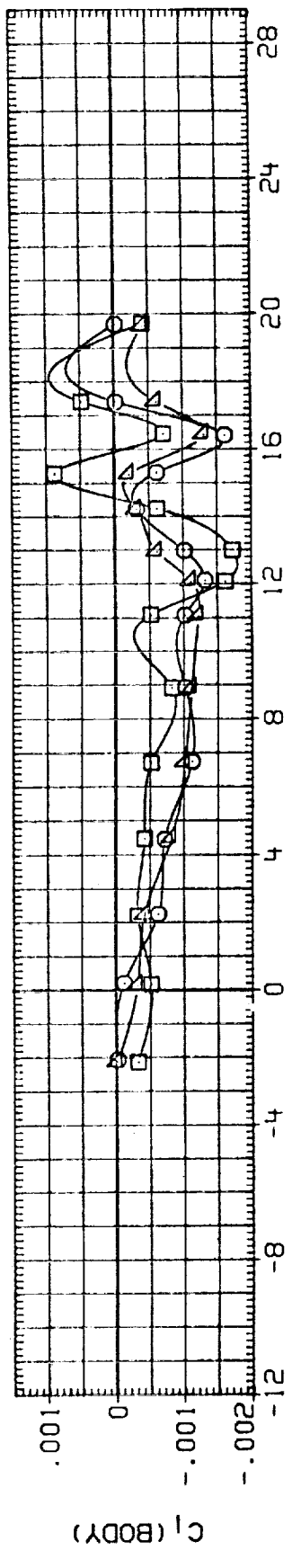
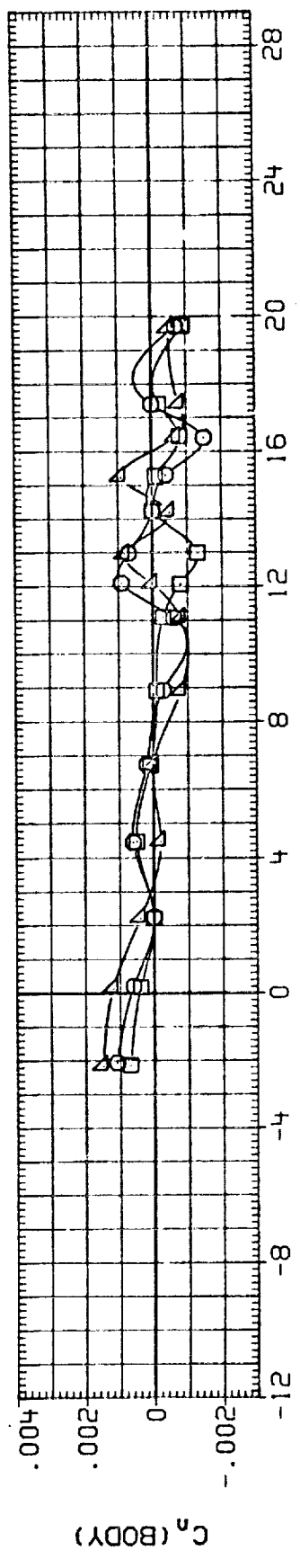
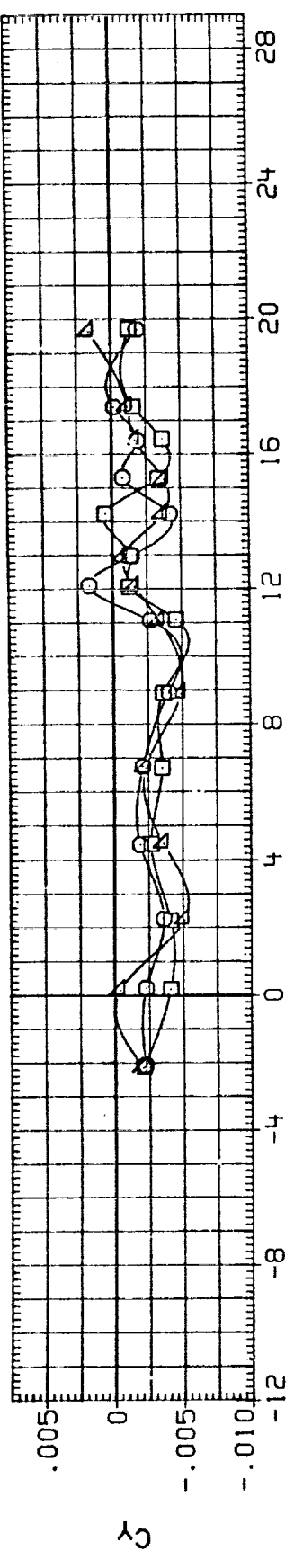


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.12

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLON | RN/L | BETA | REFERENCE INFORMATION |
|----------|--------|--|---------|--------|-------|------|-----------------------|
| (CUK050) | △ | DATA NOT AVAILABLE | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK052) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (CUK054) | □ | DATA NOT AVAILABLE | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (CUK058) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| (CUK036) | ◇ | DATA NOT AVAILABLE | 10.000 | .000 | 4.500 | .000 | YMRP .0000 IN. YO |
| (CUK055) | ◇ | DATA NOT AVAILABLE | 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |

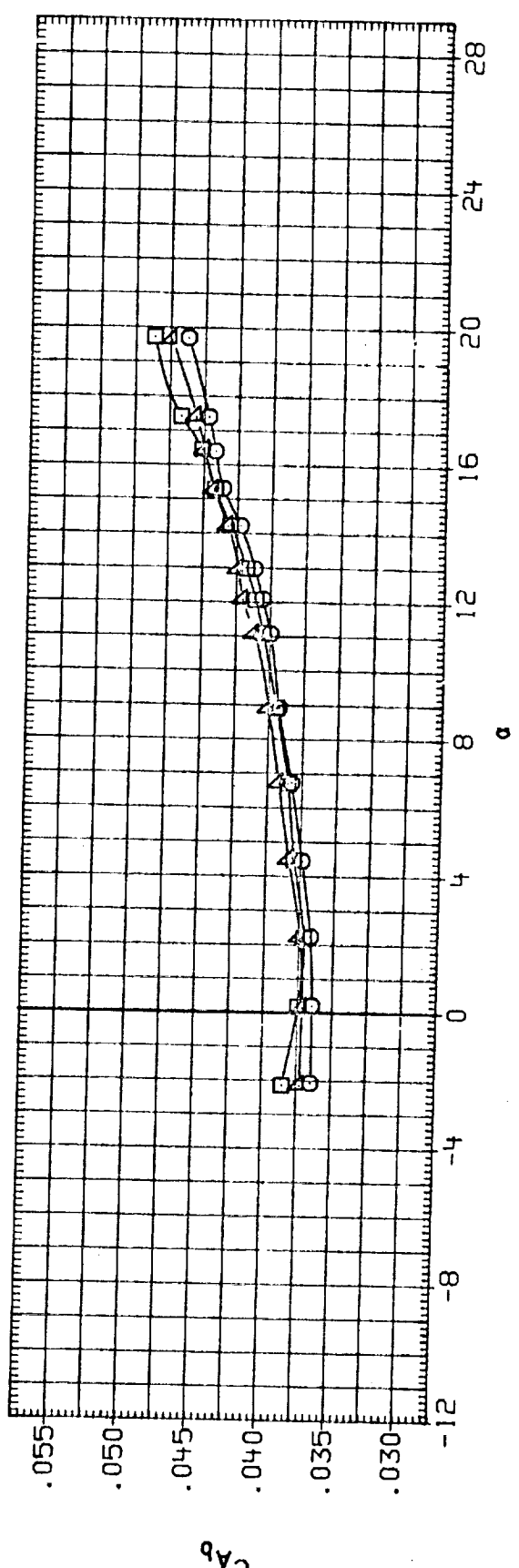
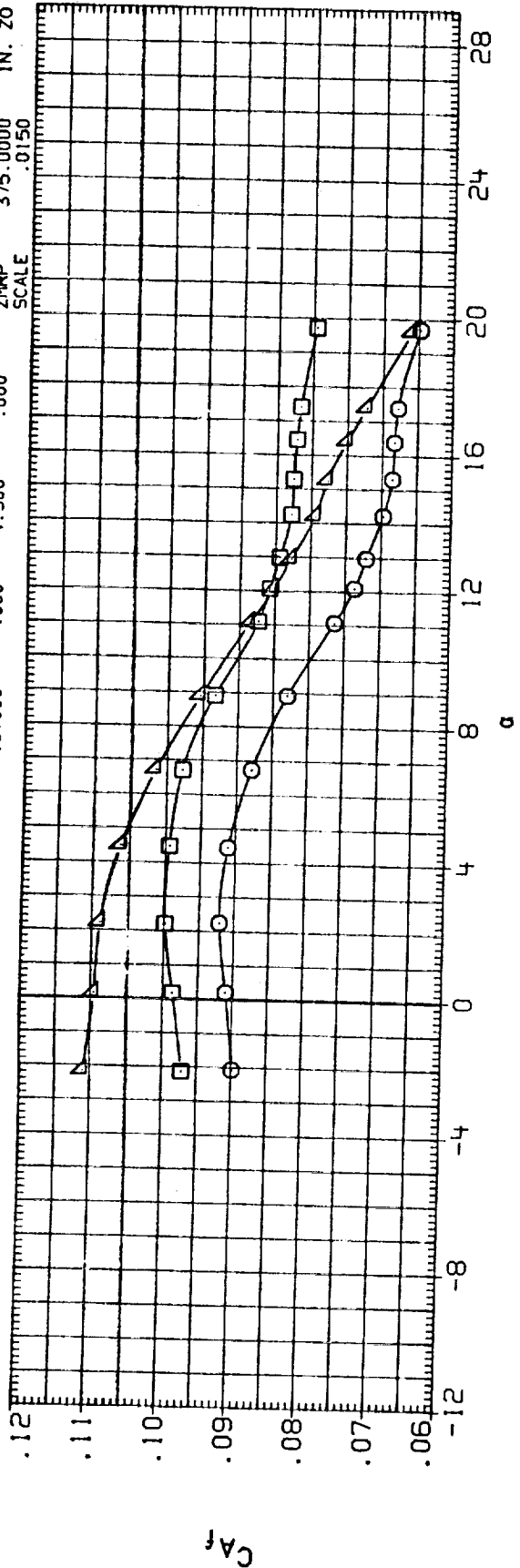


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.12

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|------|-----------------------|
| (CUK050) | DATA NOT AVAILABLE | -20.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK052) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.500 | .000 | LREF 474.8000 INCHES |
| (CUK054) | DATA NOT AVAILABLE | -5.000 | .000 | 4.500 | .000 | BREF 936.6800 INCHES |
| (CUK028) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | XMRP 1076.7000 IN. XO |
| (CUK036) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | YMRP .0000 IN. YO |
| (CUK055) | DATA NOT AVAILABLE | 15.000 | .000 | 4.500 | .000 | ZMRP 375.0000 IN. ZO |

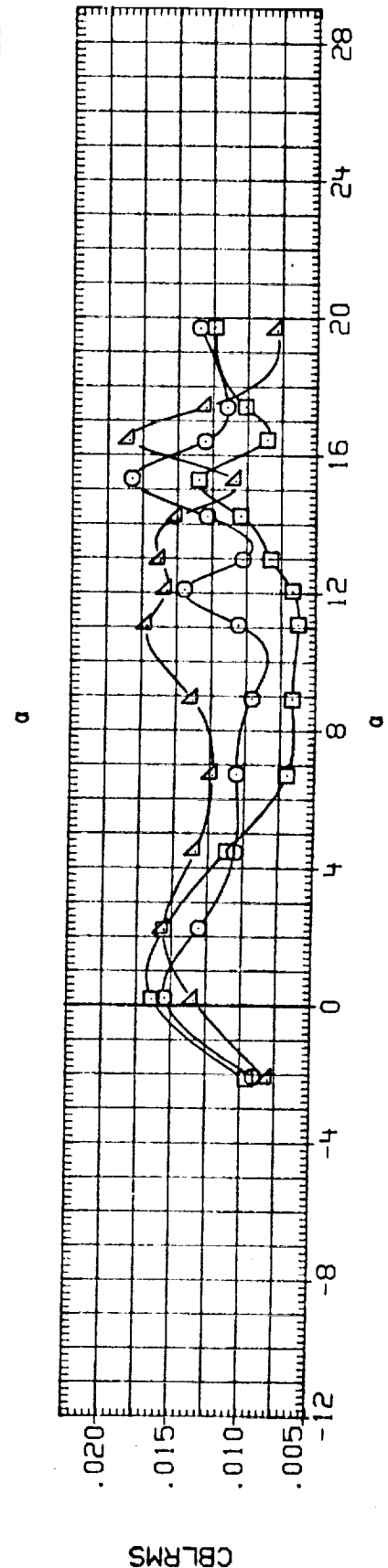
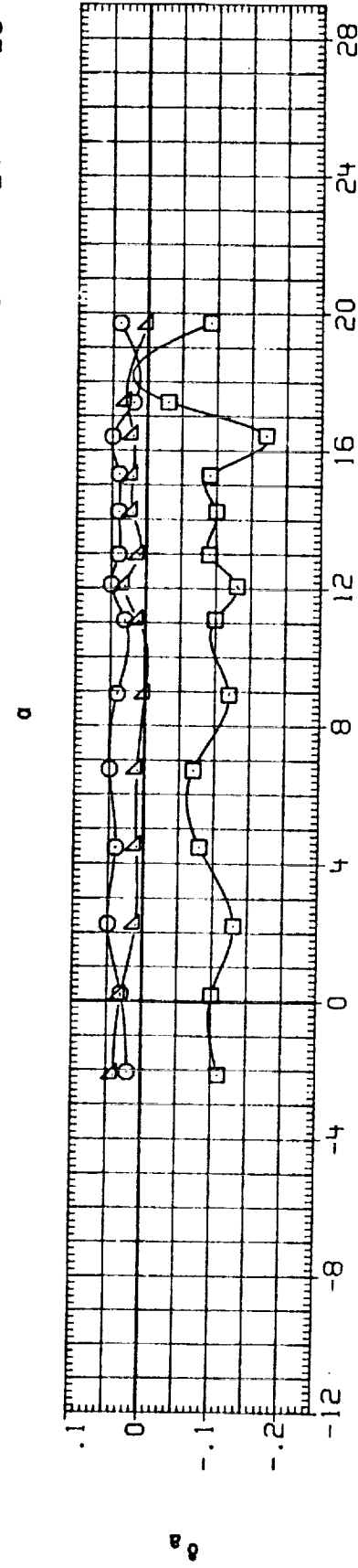
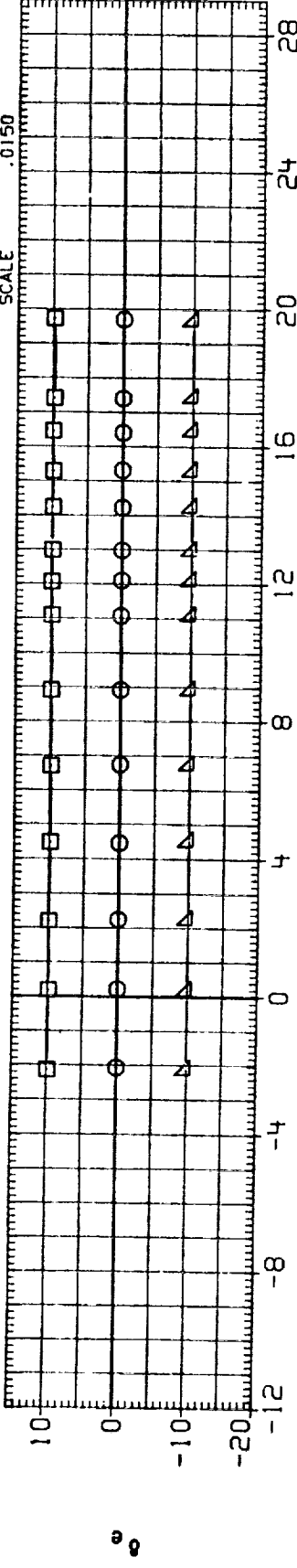


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.12

DATA SET SYMBOL

CONFIGURATION DESCRIPTION

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AIRLON RN/L BETA

REFERENCE INFORMATION

-20.000
 -10.000
 .000
 10.000
 15.000

.000
 .000
 .000
 .000
 .000

4.000
 4.000
 4.000
 4.000
 4.000

.000
 .000
 .000
 .000
 .000

2690.000 SO.FT.
 474.8000 INCHES
 936.6800 INCHES
 1076.7000 IN. XO
 .0000 IN. YO
 375.0000 IN. ZO

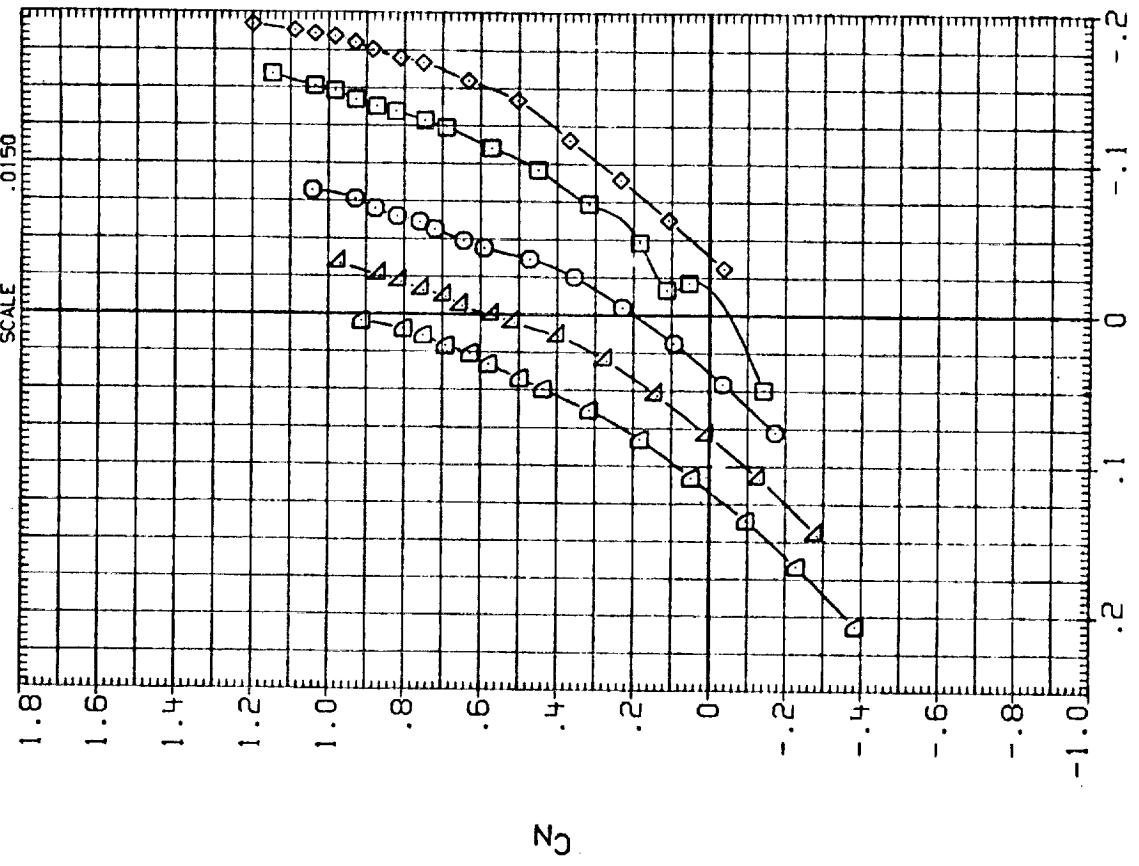
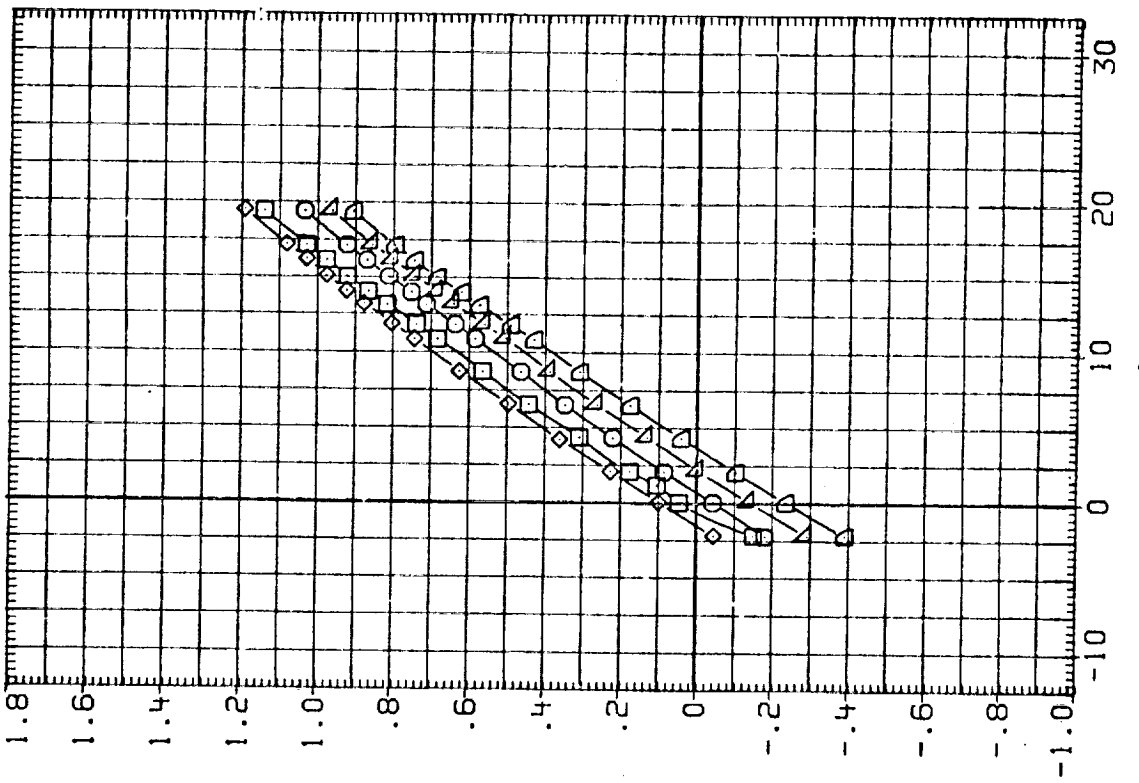


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

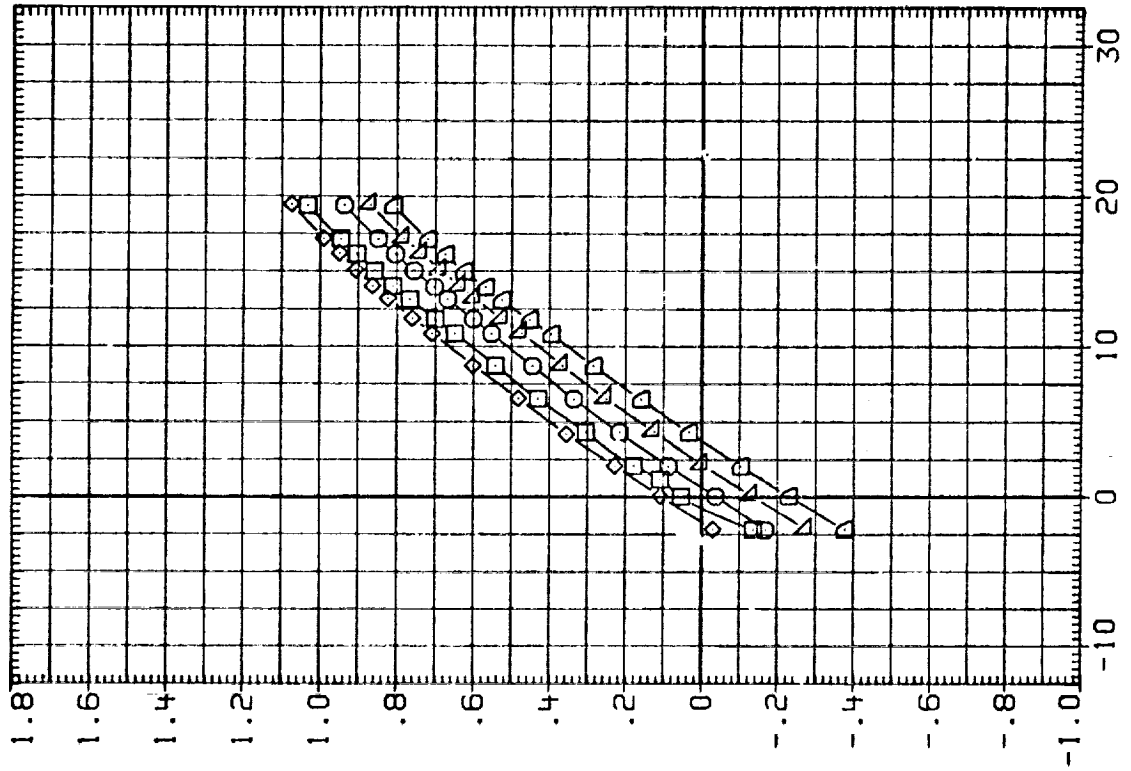
(RUK051) \square LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK053) \circ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK030) \square LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK038) \square LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK056) \diamond LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)



ELEVON AIRLON RN/L BETA REFERENCE INFORMATION

-20.000 .000 .000 SREF 2690.0000 SQ.FT.

-10.000 .000 .000 LREF 474.8000 INCHES

.000 .000 .000 SREF 936.6800 INCHES

10.000 .000 .000 XMRP 1076.7000 IN. XO

15.000 .000 .000 YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

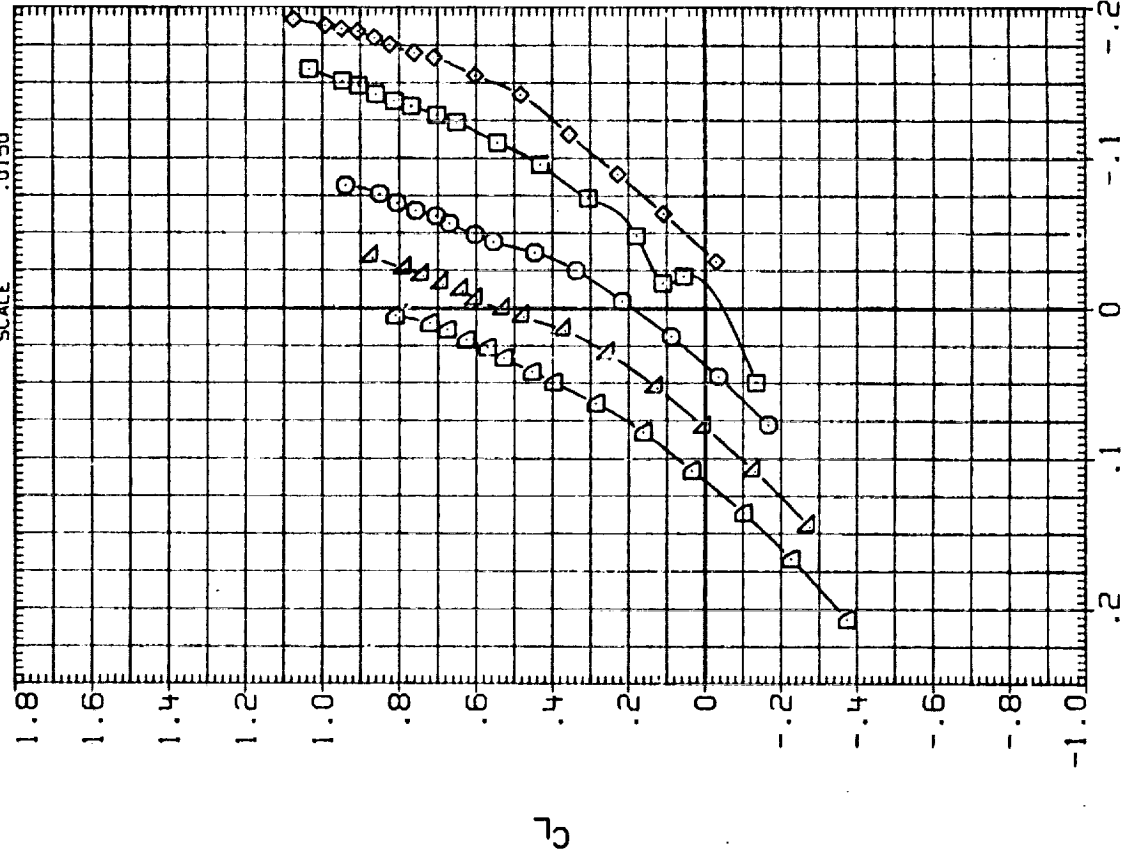


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.20

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | RN/L | BETA | REFERENCE INFORMATION |
|----------|--------|--|---------|--------|-------|------|-----------------------|
| (RUK051) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -20.000 | .000 | 4.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK053) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.000 | .000 | LREF 474.8000 INCHES |
| (RUK030) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.000 | .000 | BREF 936.6800 INCHES |
| (RUK038) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK056) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | .000 | 4.000 | .000 | YMRP 375.0000 IN. YO |
| | | | | | | | ZMRP .0150 |
| | | | | | | | SCALE |

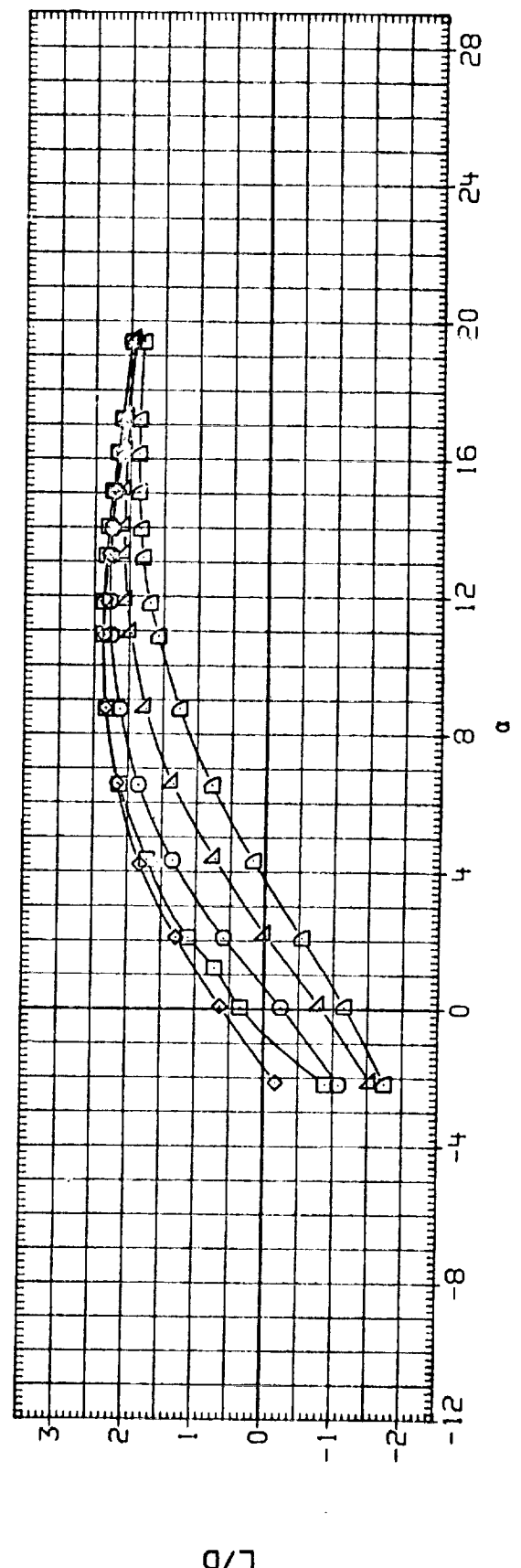
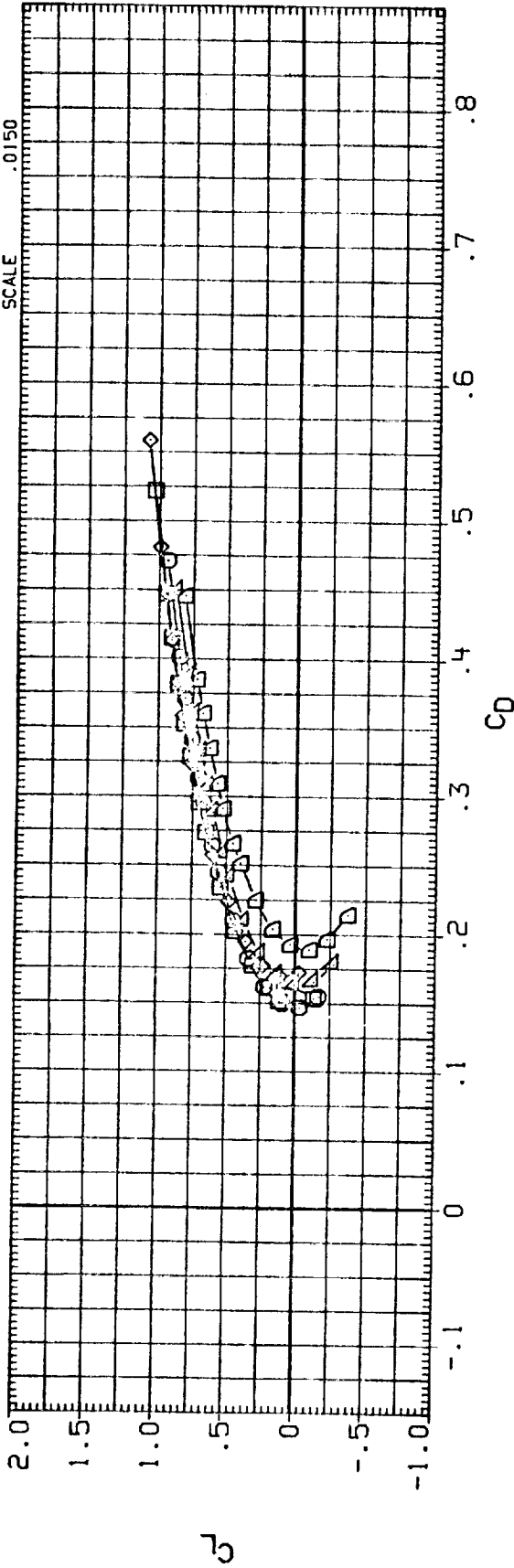


FIG. 18 ELEVON EFFECTIVENESS

(A)MACH = 1.20

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|------|-----------------------|
| (RUK051) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -20.000 | .000 | 4.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK053) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.000 | .000 | LREF 474.8000 INCHES |
| (RUK030) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.000 | .000 | BREF 936.6800 INCHES |
| (RUK038) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK056) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | .000 | 4.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |

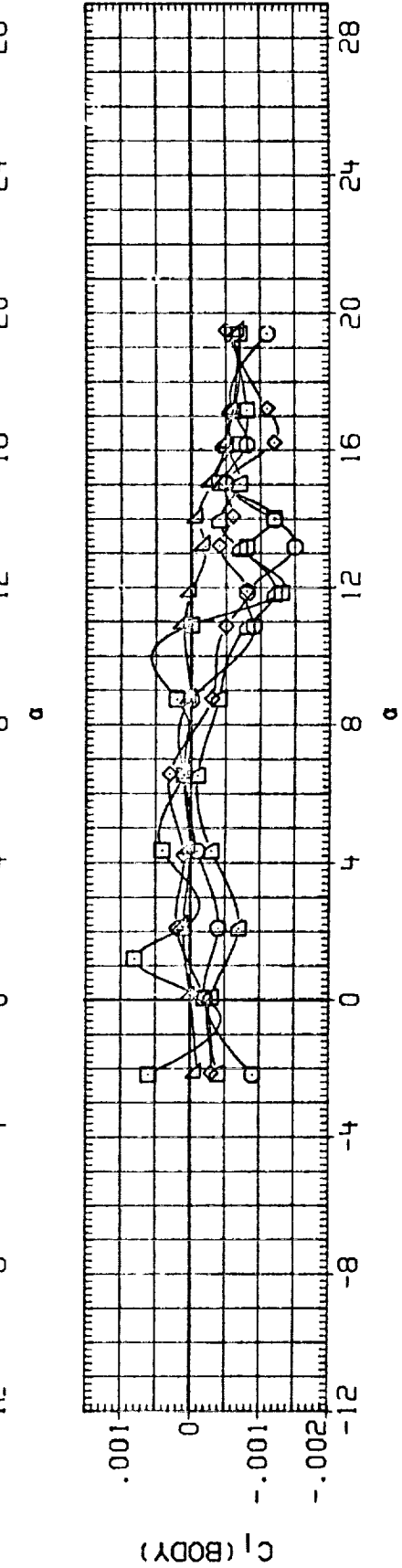
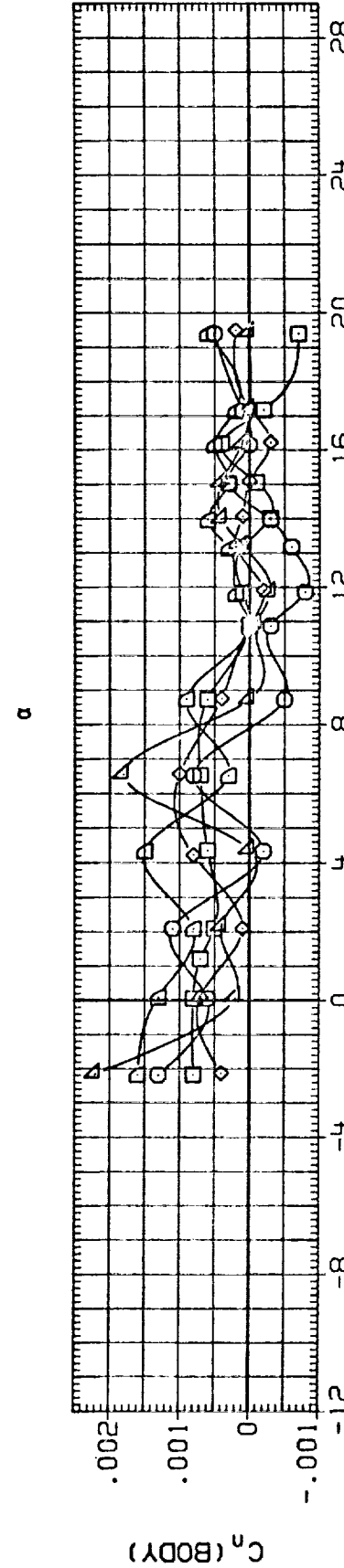
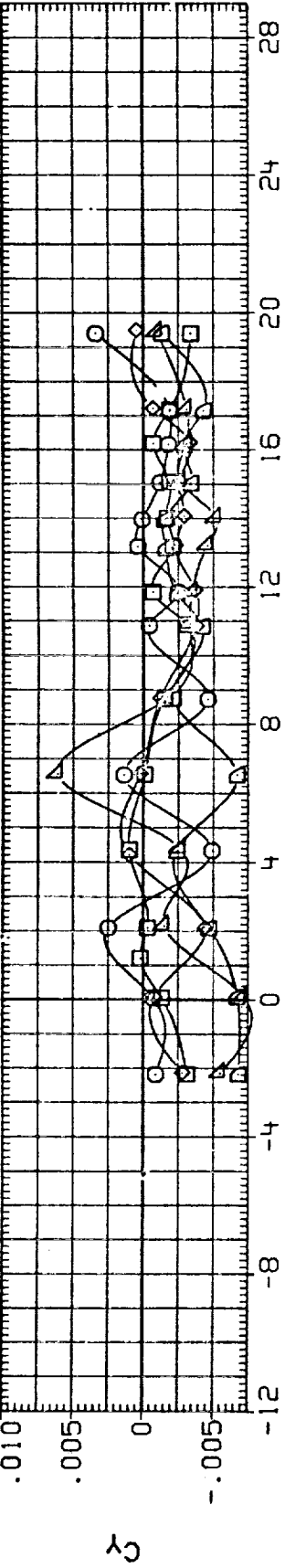


FIG. 18 ELEVON EFFECTIVENESS

(A)MACH = 1.20

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|------|-----------------------|
| (CUK051) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -20.000 | .000 | 4.000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK053) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 4.000 | .000 | LREF 474.8000 INCHES |
| (CUK030) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.000 | .000 | BREF 936.6800 INCHES |
| (CUK038) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.000 | .000 | XTRP 1076.7000 IN. XO |
| (CUK056) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | .000 | 4.000 | .000 | YTRP .0000 IN. YO |
| | | | | | | ZTRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

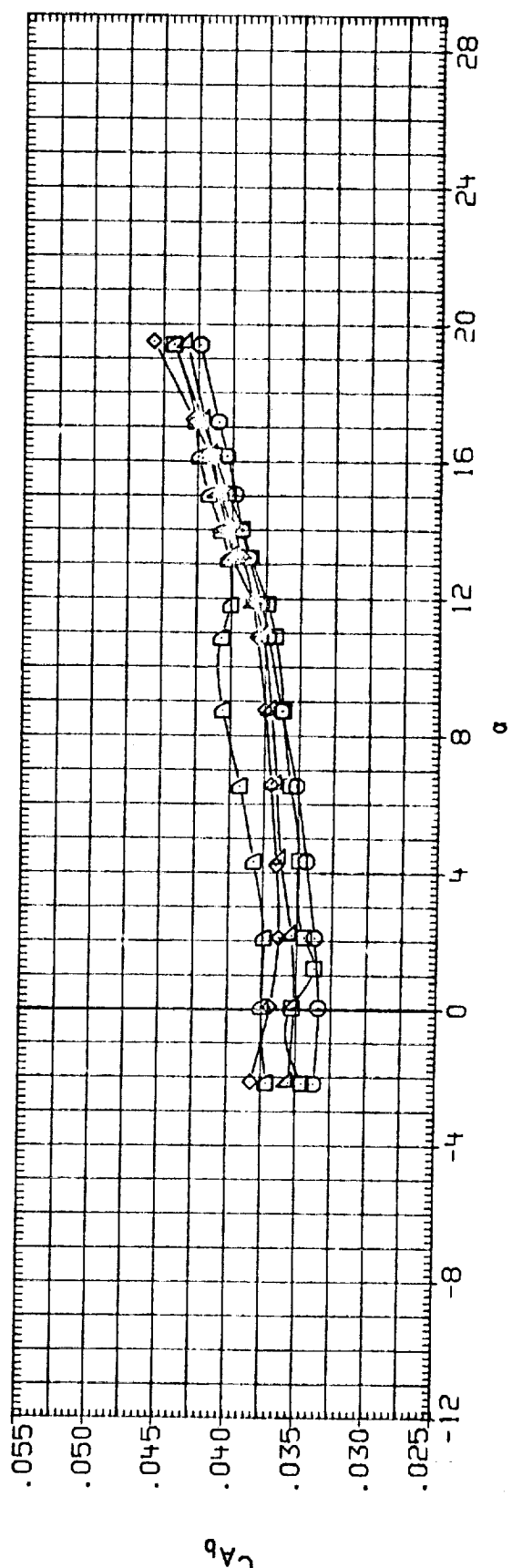
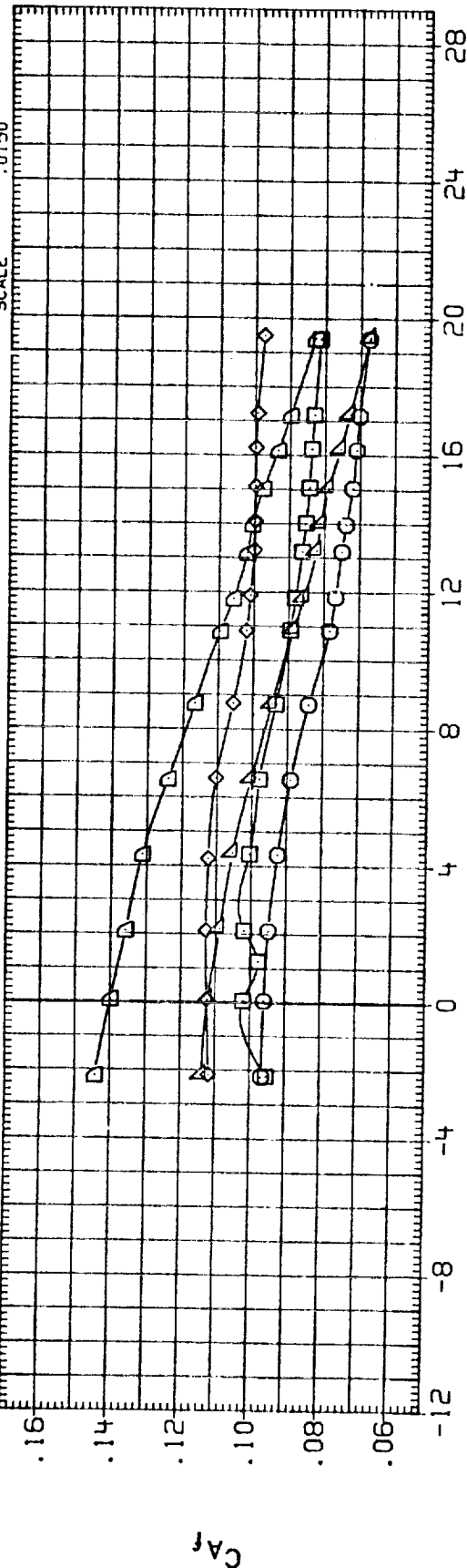


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.20

DATA SET SYMBOL

CONFIGURATION DESCRIPTION

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON RN/VL BETA

REFERENCE INFORMATION

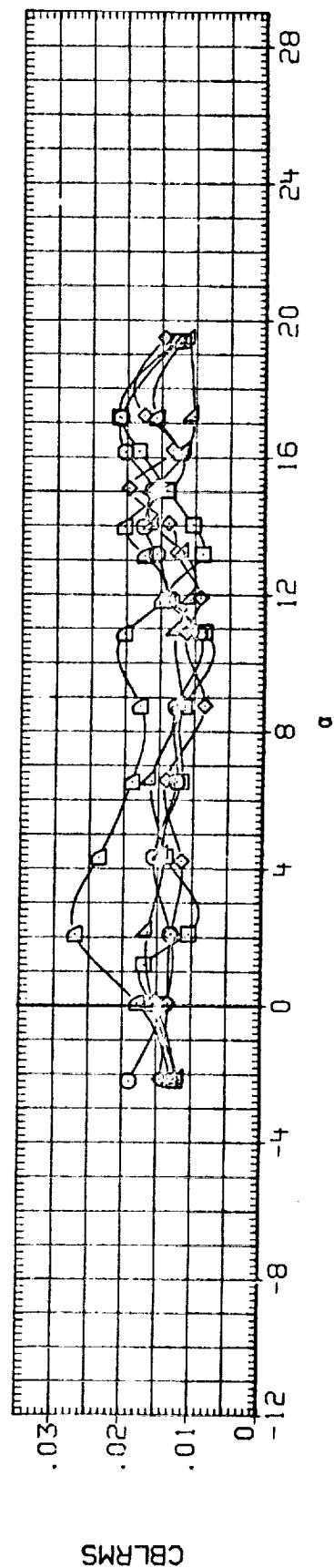
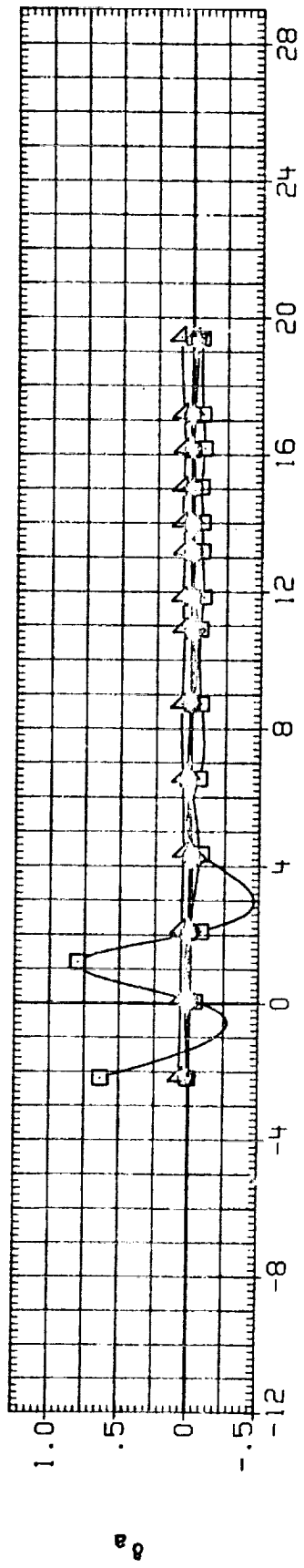
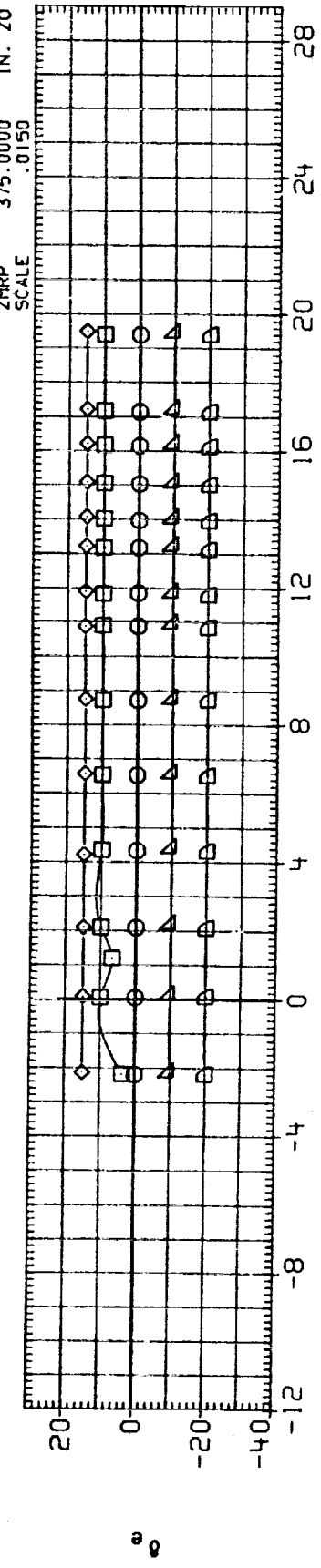


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.20

DATA SET SYMBOL
 (RUK068) ○
 (RUK057) □
 (RUK086) ◇

CONFIGURATION DESCRIPTION

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RN/L
 .000 .000 .000 4.500
 -10.000 .000 .000 4.500
 10.000 .000 .000 4.500

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

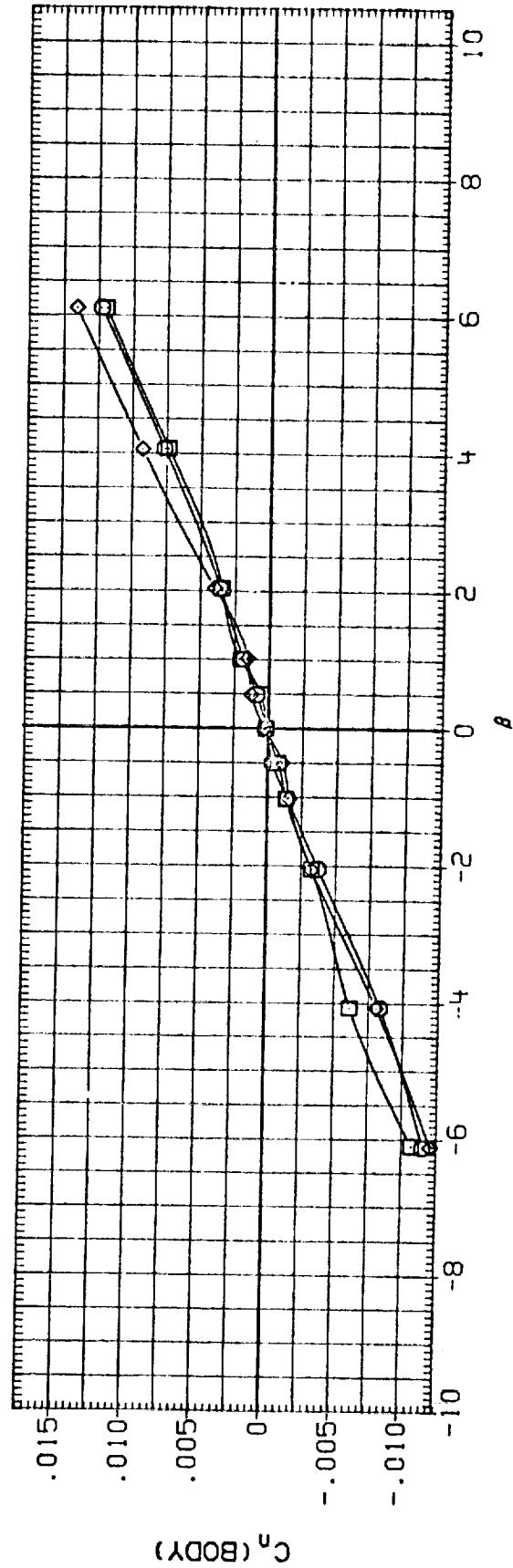
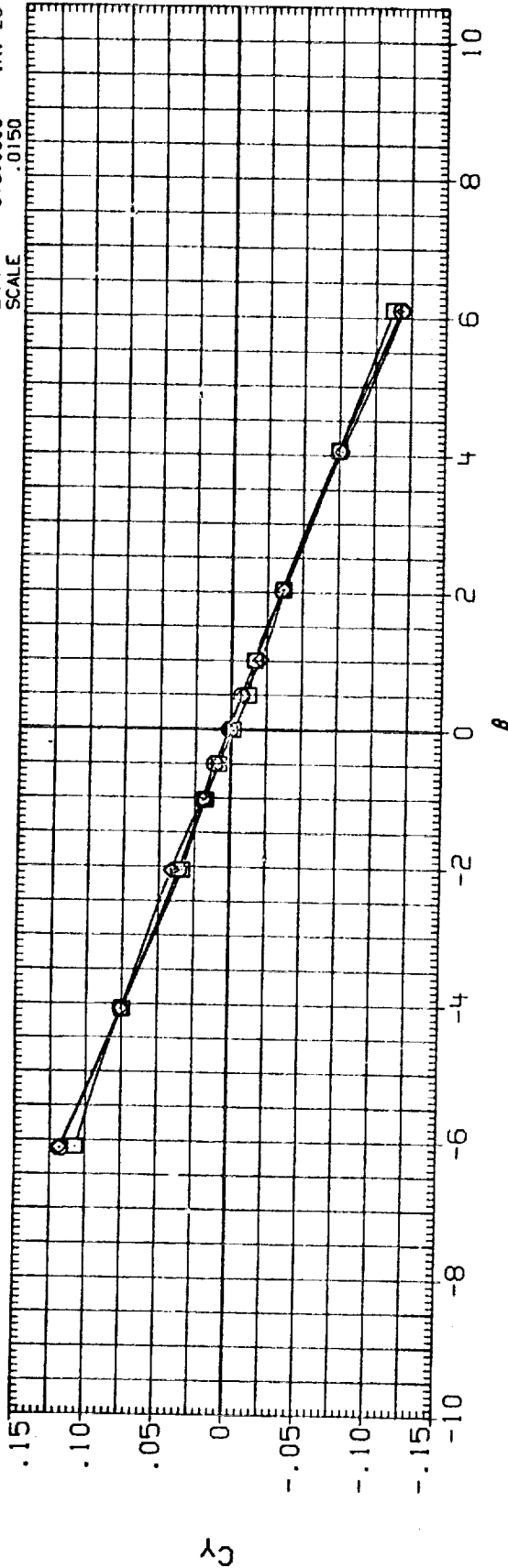


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .60

DATA SET SYMBOL
(RUK068) ○
(RUK057) □
(RUK086) ◇

CONFIGURATION DESCRIPTION
L A70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
L A70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
L A70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RN/L
.000 .000 .000 4.500
-10.000 .000 .000 4.500
10.000 .000 .000 4.500

REFERENCE INFORMATION
SREF 2690.0000 SQ. FT.
LREF 474.8000 INCHES
BREF 936.6800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

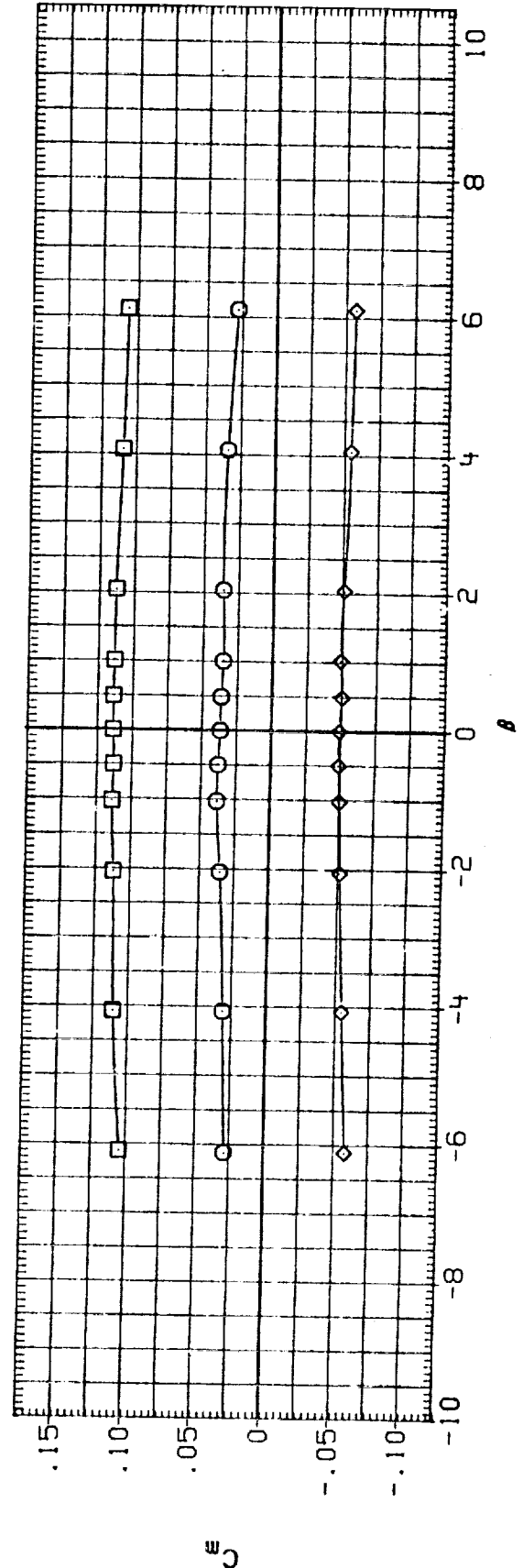
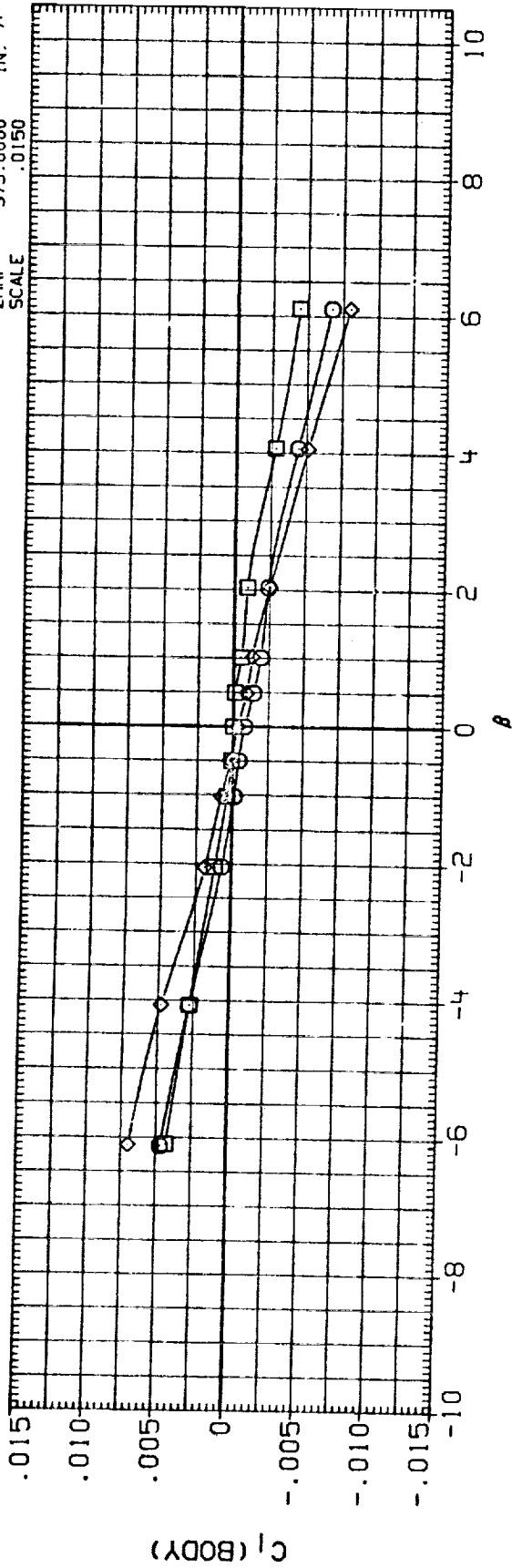


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .60

DATA SET SYMBOL · CONFIGURATION DESCRIPTION

- (RUK068) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (RUK057) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (RUK086) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

| ELEVON | AIRLON | ALPHA | RN/L |
|---------|--------|-------|-------|
| .000 | .000 | .000 | 4.500 |
| -10.000 | .000 | .000 | 4.500 |
| 10.000 | .000 | .000 | 4.500 |

| REFERENCE INFORMATION | |
|-----------------------|-------------------|
| SREF | 2690.0000 SQ. FT. |
| LREF | 474.8000 INCHES |
| BREF | 936.6800 INCHES |
| XMRP | 1076.7000 IN. XO |
| YMRP | .0000 IN. YO |
| ZMRP | 375.0000 IN. ZO |
| SCALE | .0150 |

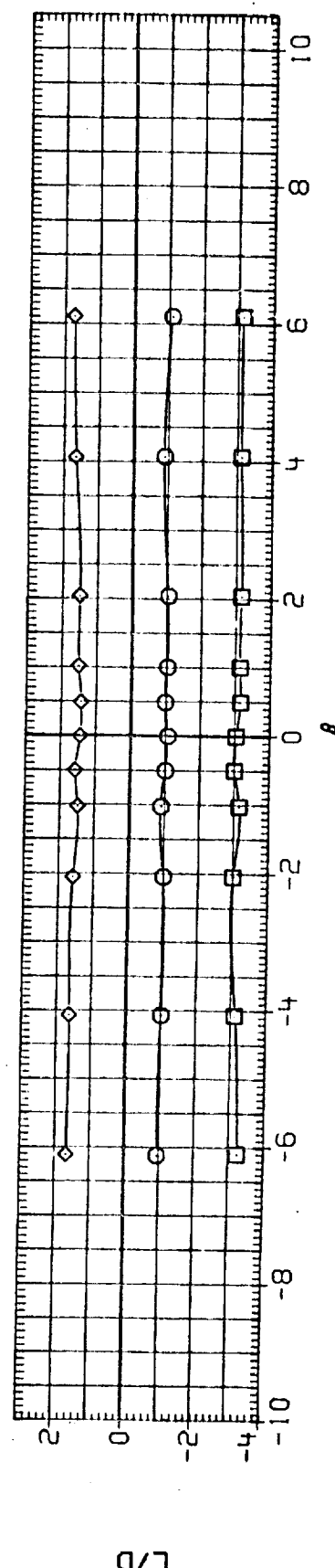
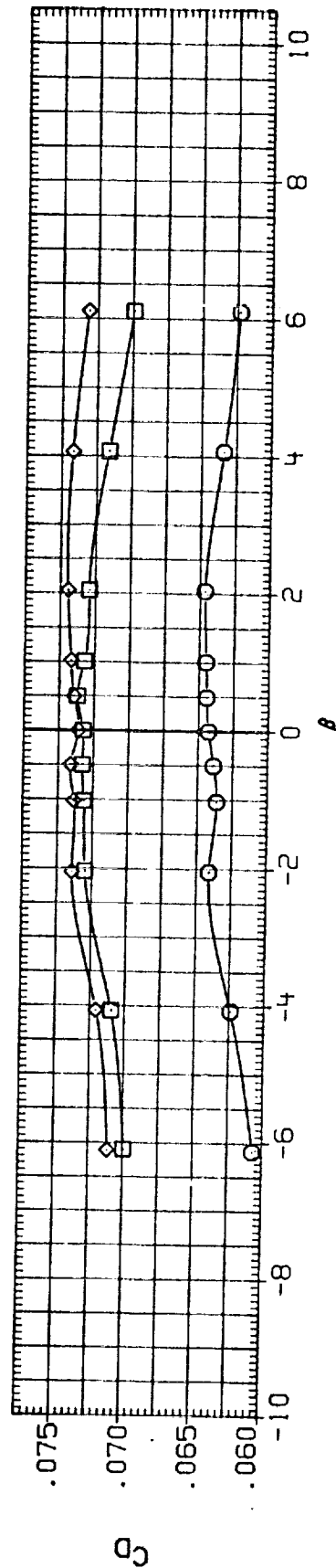
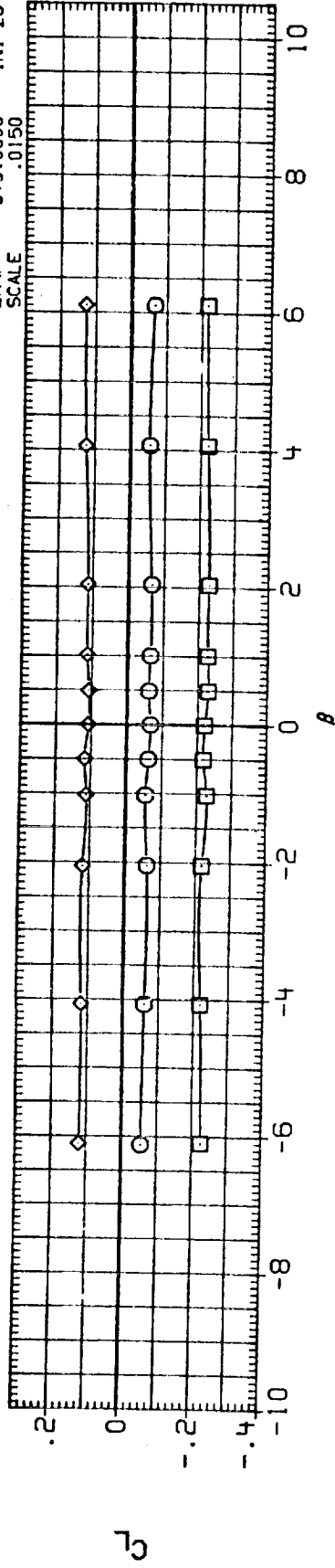


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK058) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK057) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK086) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RN/L

.000 .000 .000 4.500

-10.000 .000 .000 4.500

10.000 .000 .000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE 0.150

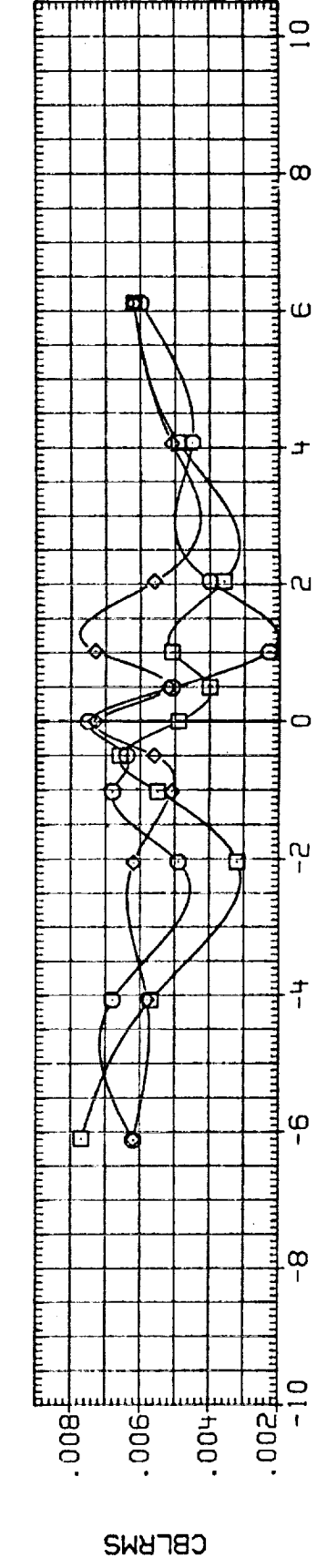
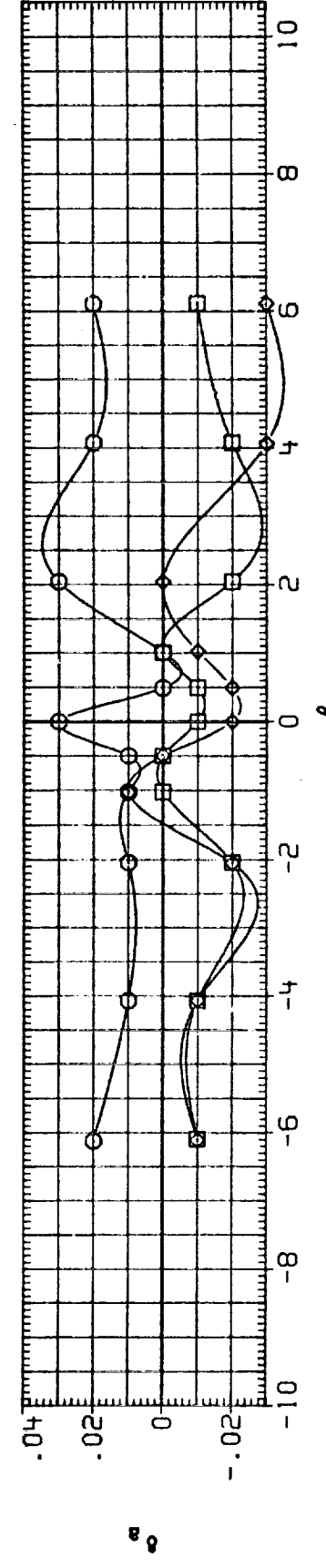
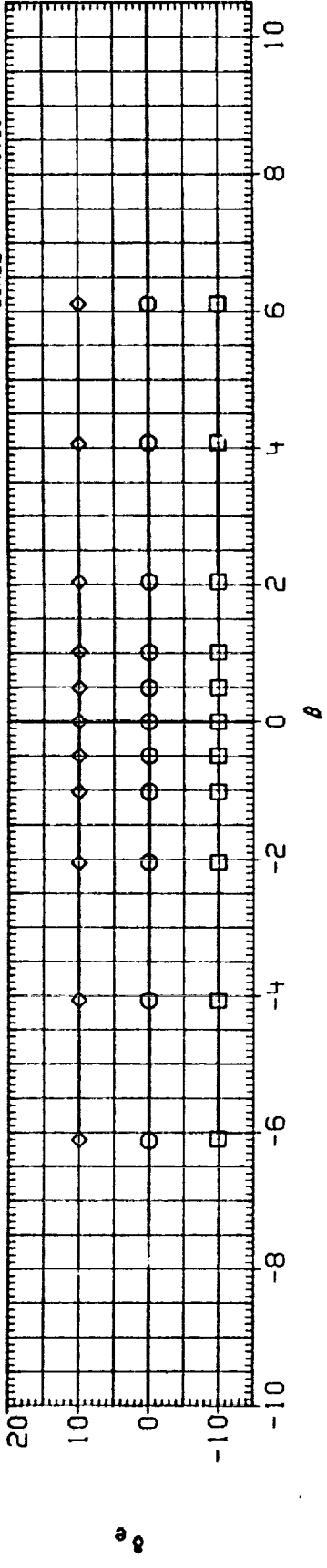


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | A ILRON | ALPHA | RN/L | REFERENCE INFORMATION |
|----------|--------|--|---------|---------|-------|-------|-----------------------|
| (RUK068) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | .000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK057) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | .000 | 4.500 | LREF 474.8000 INCHES |
| (RUK066) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | .000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | | XPRP 1076.7000 IN. XO |
| | | | | | | | YPRP .0000 IN. YO |
| | | | | | | | ZPRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

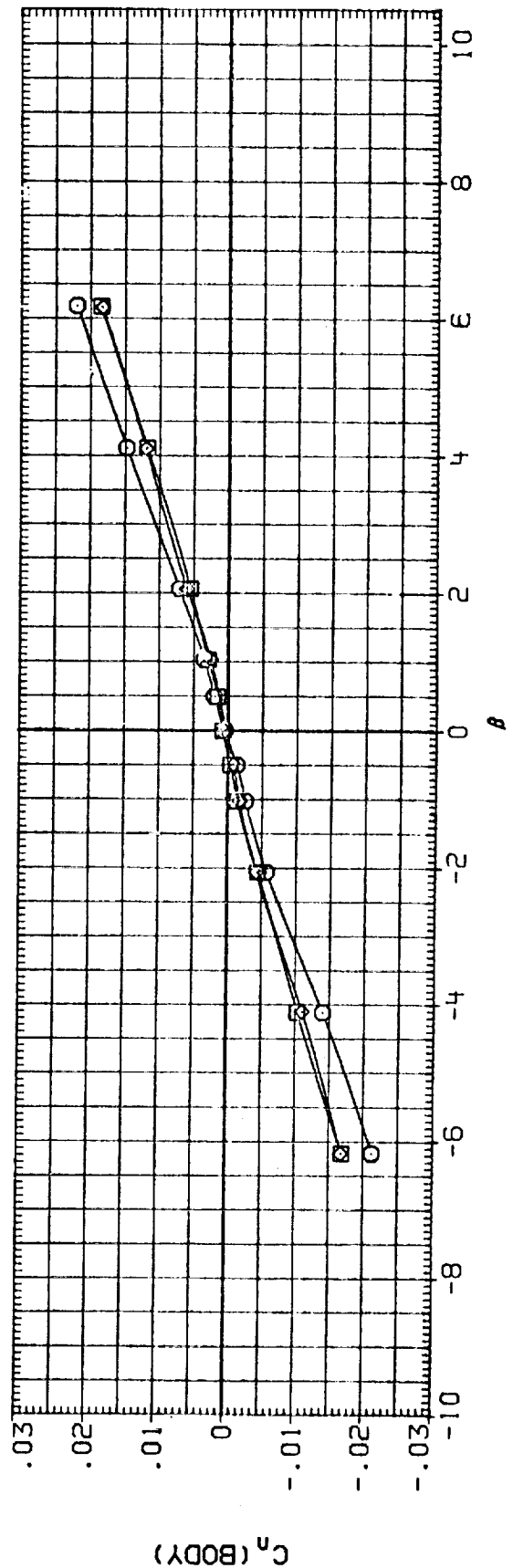
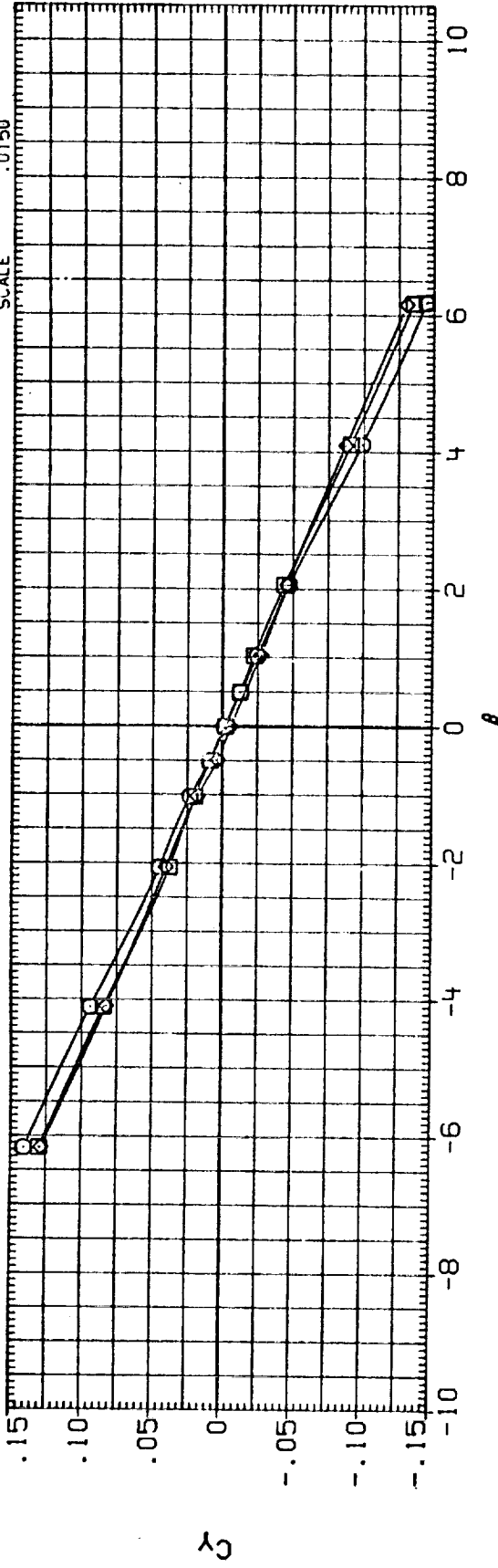


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .90

| | | | | | | |
|-----------------|--|---------|--------|-------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK068) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | .000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK057) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | .000 | 4.500 | LREF 474.8000 INCHES |
| (RUK086) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | .000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

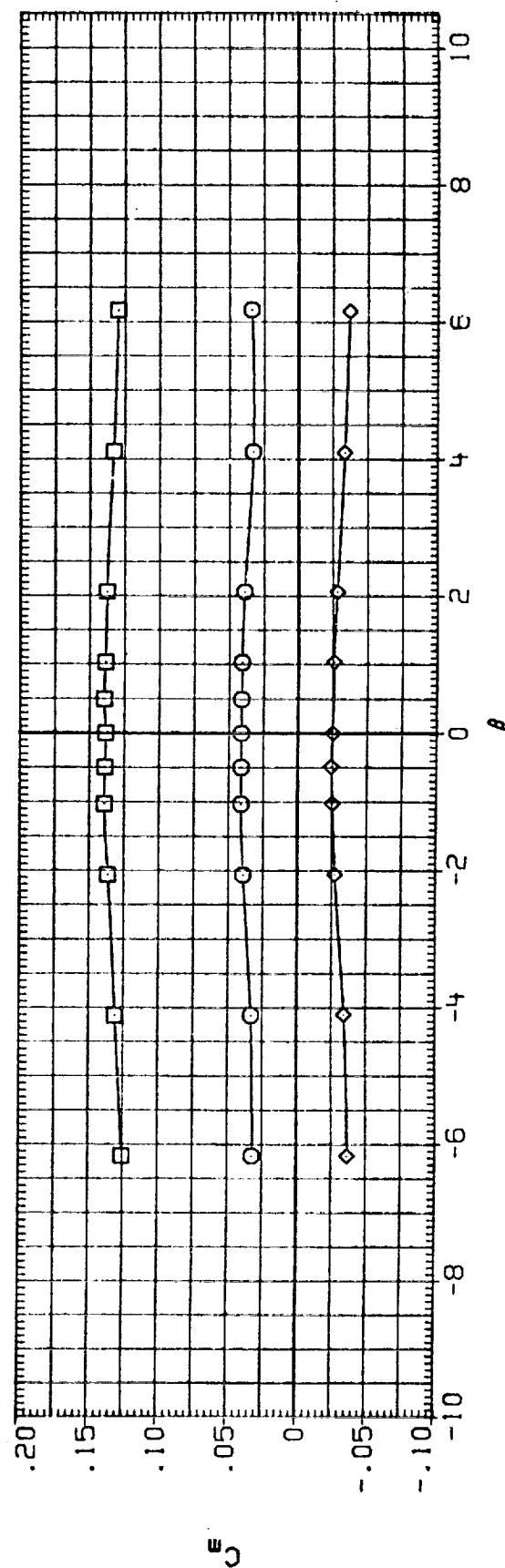
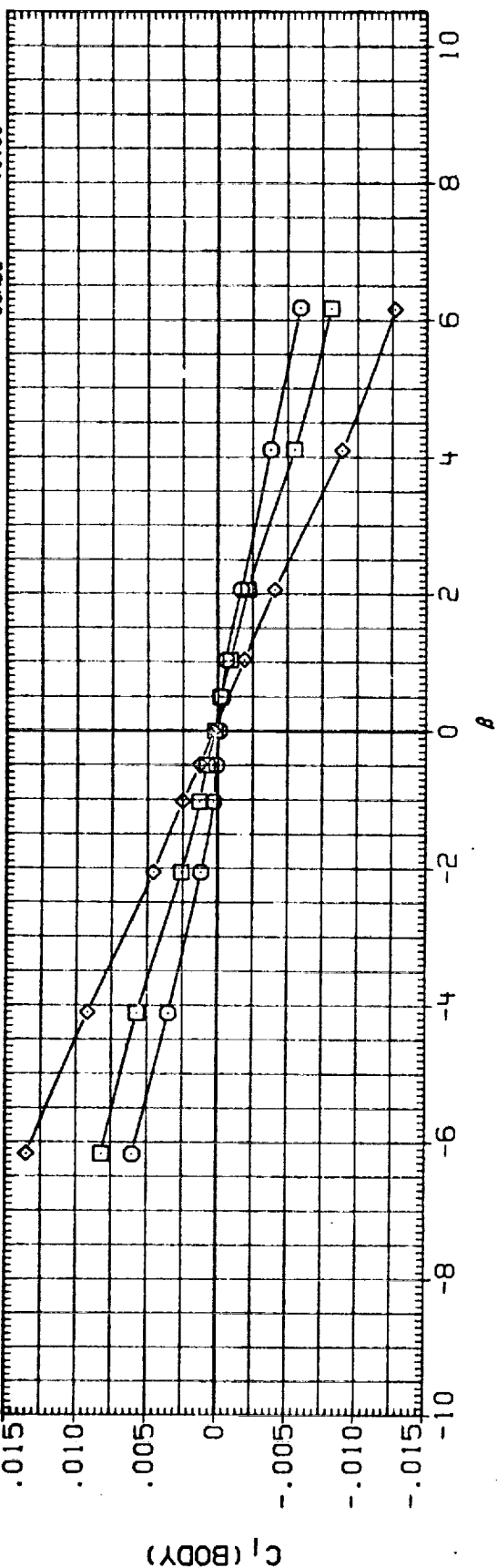


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A)MACH = .90

| | | | | | | |
|-----------------|--|---------|---------|-------|-------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILTRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK058) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | .000 | 4.500 | SREF 2690.0000 SQ. FT. |
| (RUK057) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | .000 | 4.500 | LREF 474.8000 INCHES |
| (RUK086) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | .000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMPP 1076.7000 IN. XO |
| | | | | | | YMPP .0000 IN. YO |
| | | | | | | ZMPP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

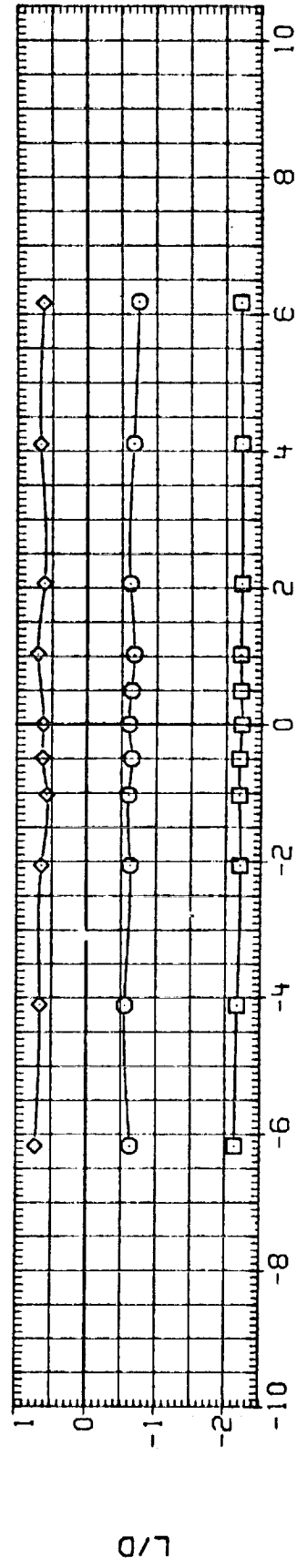
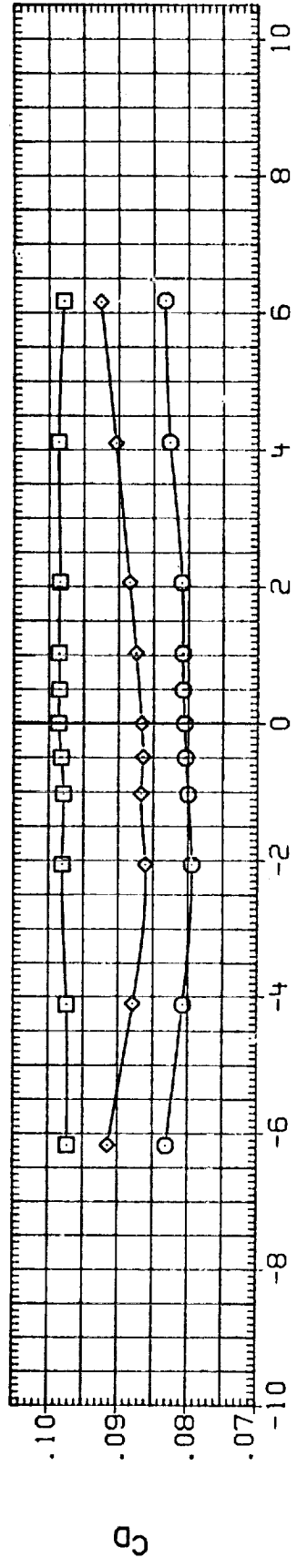
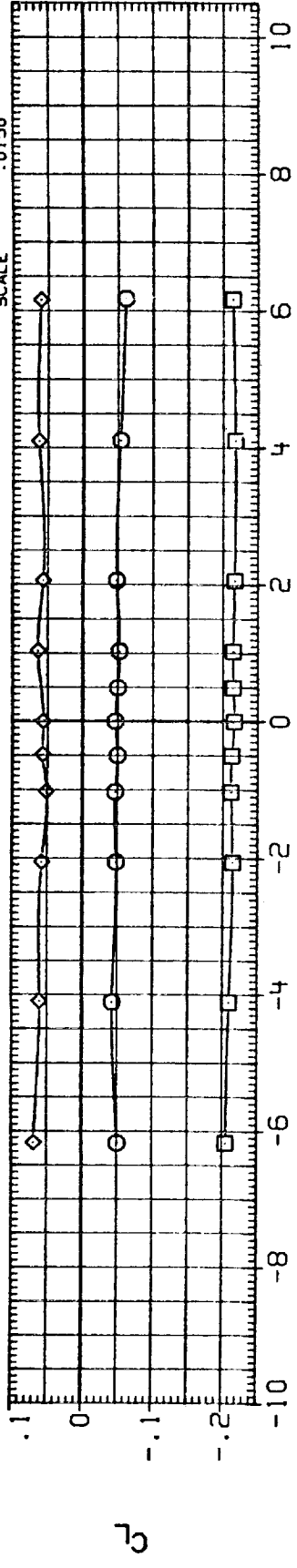


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .90

| | | | | | | |
|-----------------|--|---------|--------|-------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (CUK068) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | .000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (CUK057) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | .000 | 4.500 | LREF 474.8000 INCHES |
| (CUK086) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | .000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

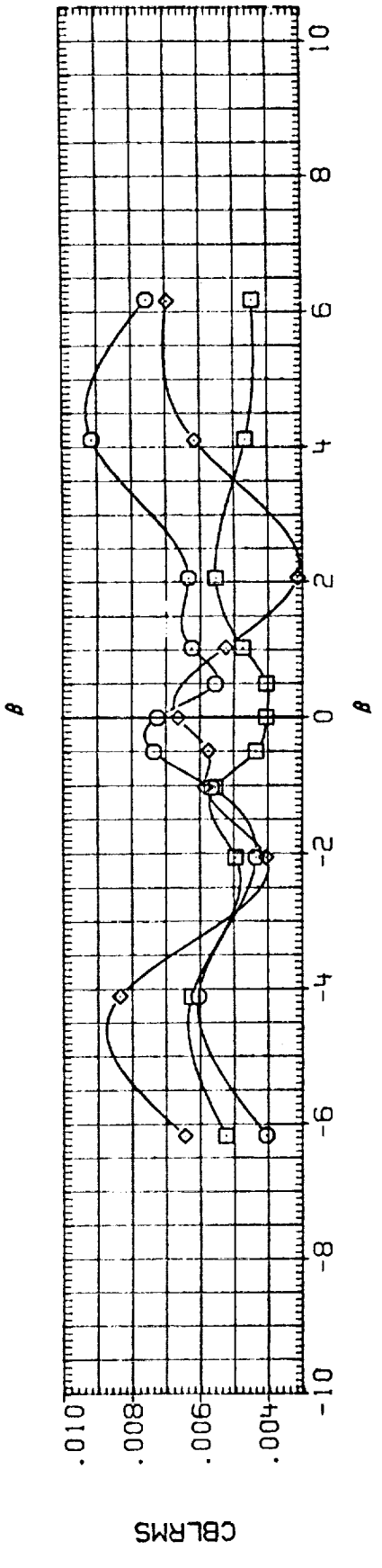
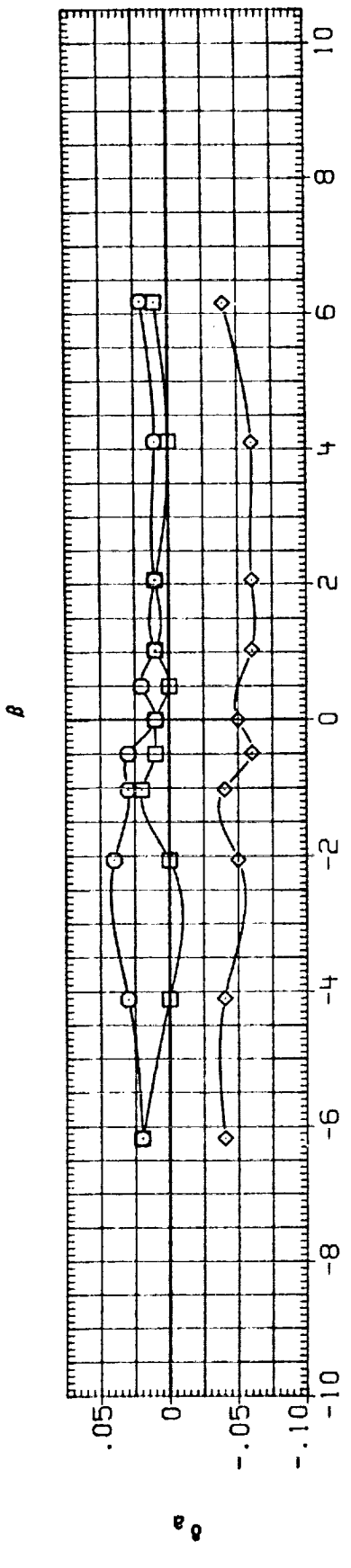
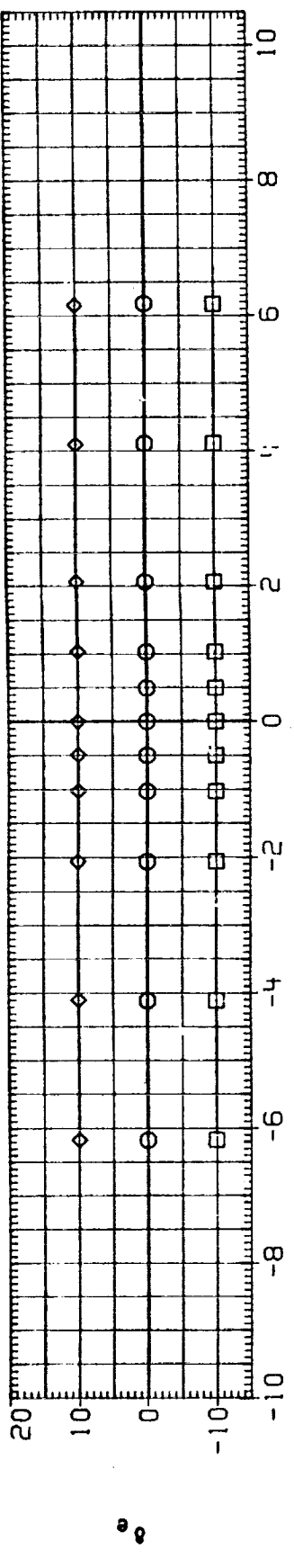


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .90

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|-------|-----------------------|
| (RUK068) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | .000 | 4.500 | SREF 2690.0000 SO.FT. |
| (RUK057) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | .000 | 4.500 | LREF 474.8000 INCHES |
| (RUK086) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | .000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

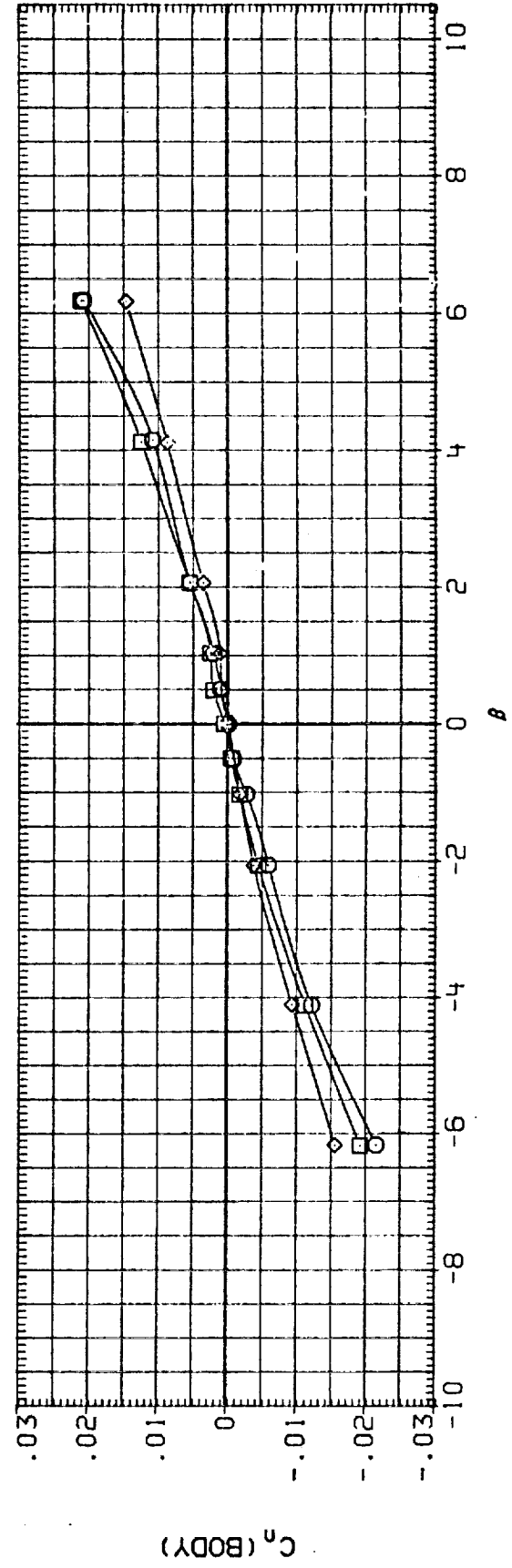
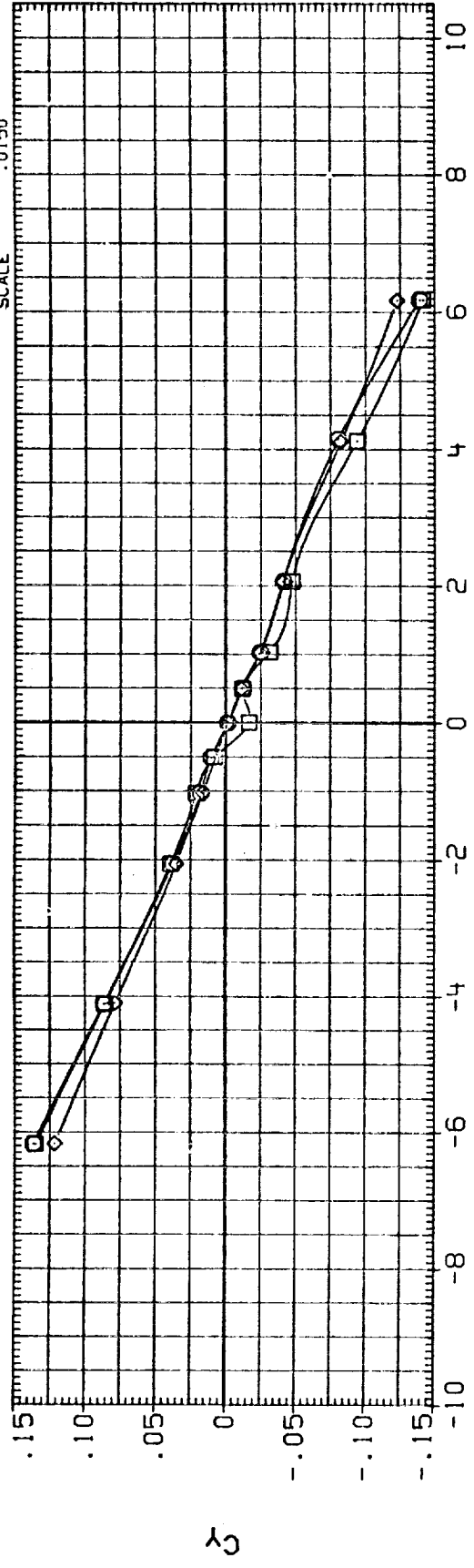


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK068) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK057) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK086) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RN/L

.000 .000 .000 4.500

-10.000 .000 .000 4.500

10.000 .000 .000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

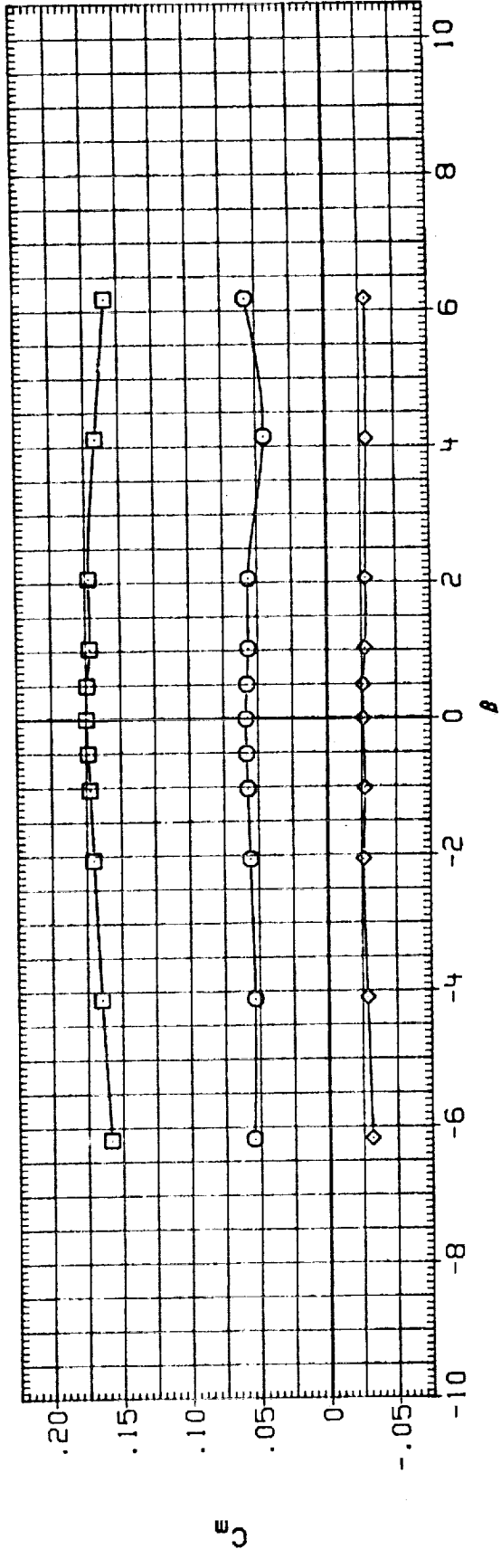
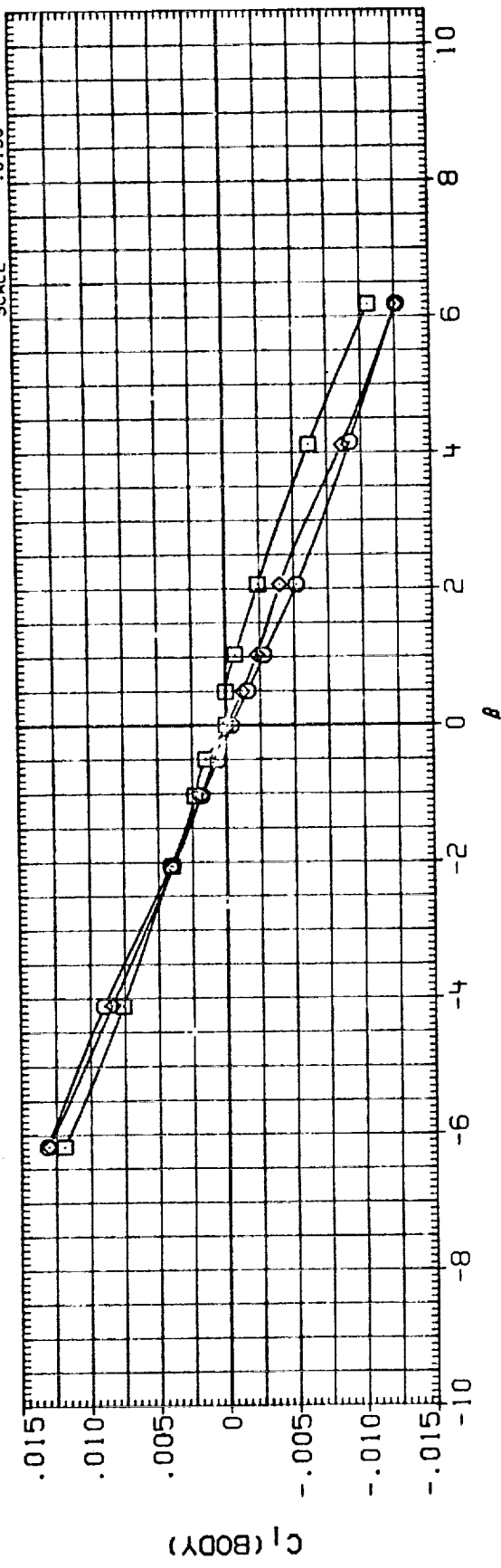


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A)MACH = .95

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
|----------|--------|--|---------|--------|-------|-------|-----------------------|
| (RUK058) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | .000 | 4.500 | SREF 2690.0000 SO.FT. |
| (RUK057) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | .000 | 4.500 | LREF 474.8000 INCHES |
| (RUK056) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | .000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

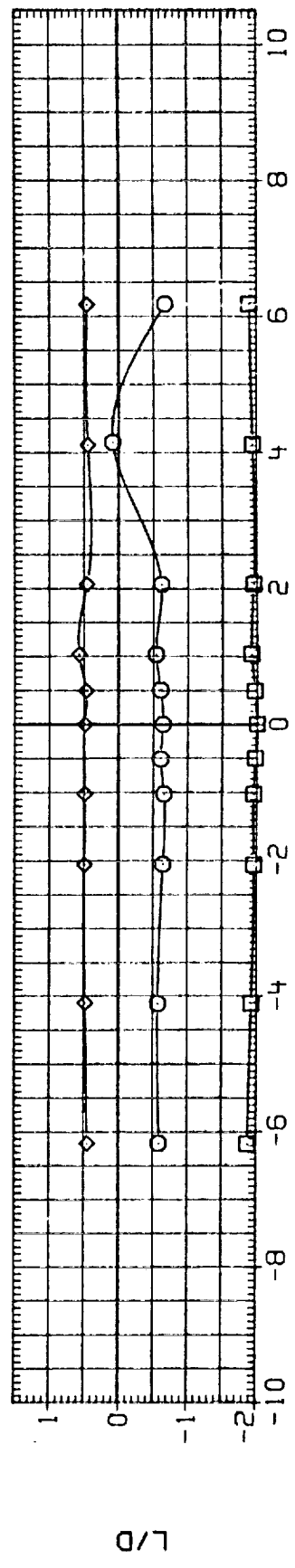
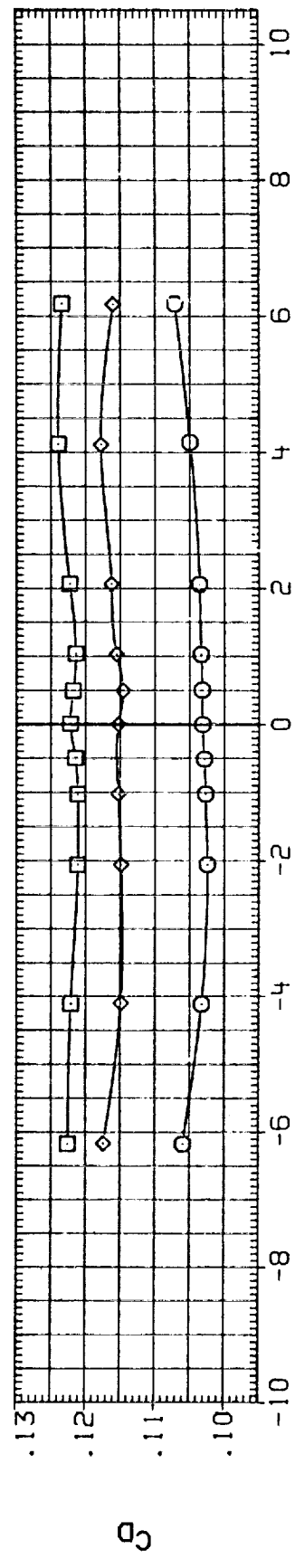
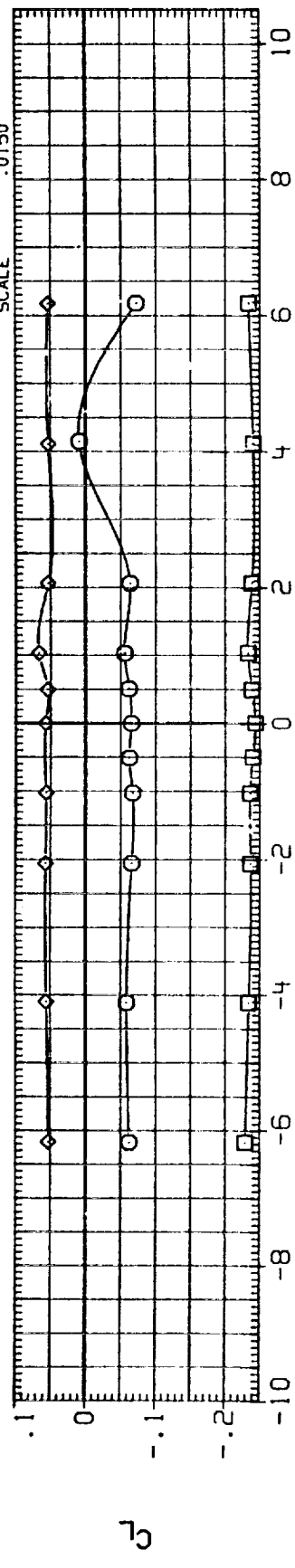


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

| | | | | | | |
|-----------------|--|---------|--------|-------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLON | ALPHA | RN/L | REFERENCE INFORMATION |
| (CUK068) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | .000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (CUK057) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | .000 | 4.500 | LREF 474.8700 INCHES |
| (CUK066) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | .000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

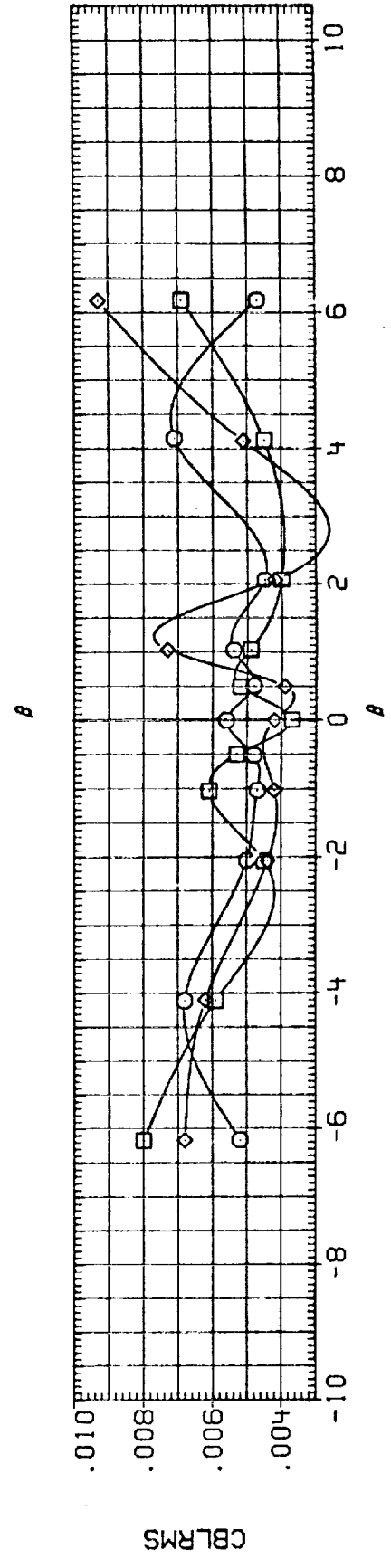
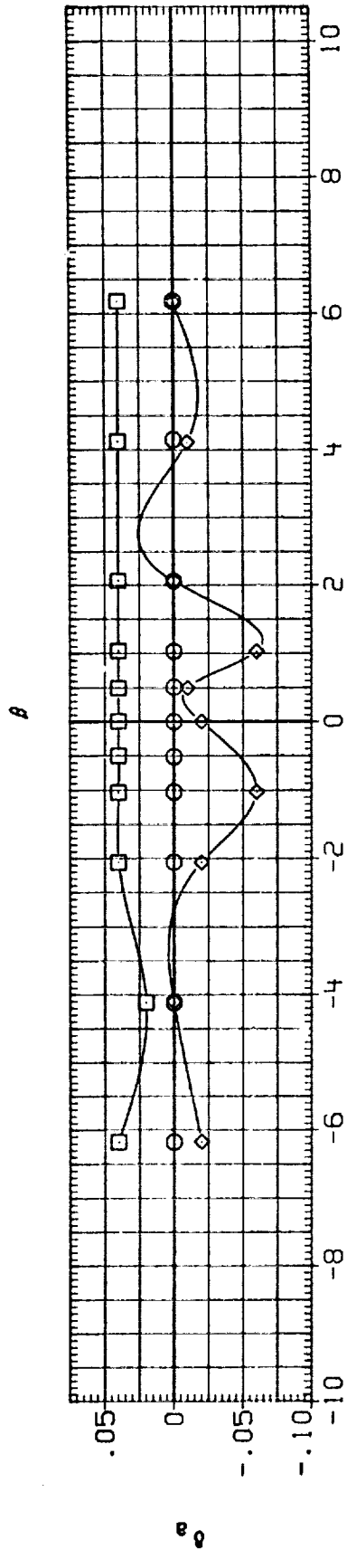
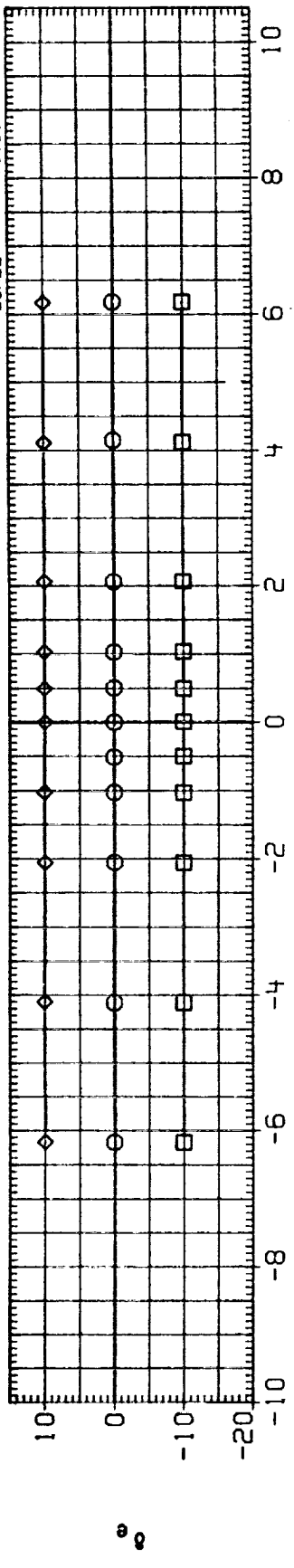


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A)MACH = .95

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|---------|-------|-------|-----------------------|
| (RUK069) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | .000 | 4.000 | SREF 2690.0000 SO.FT. |
| (RUK058) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | .000 | 4.000 | LREF 474.8000 INCHES |
| (RUK087) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | .000 | 4.000 | BREF 936.6800 INCHES |
| | | | | | | YMRP 1076.7000 IN. XO |
| | | | | | | ZMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

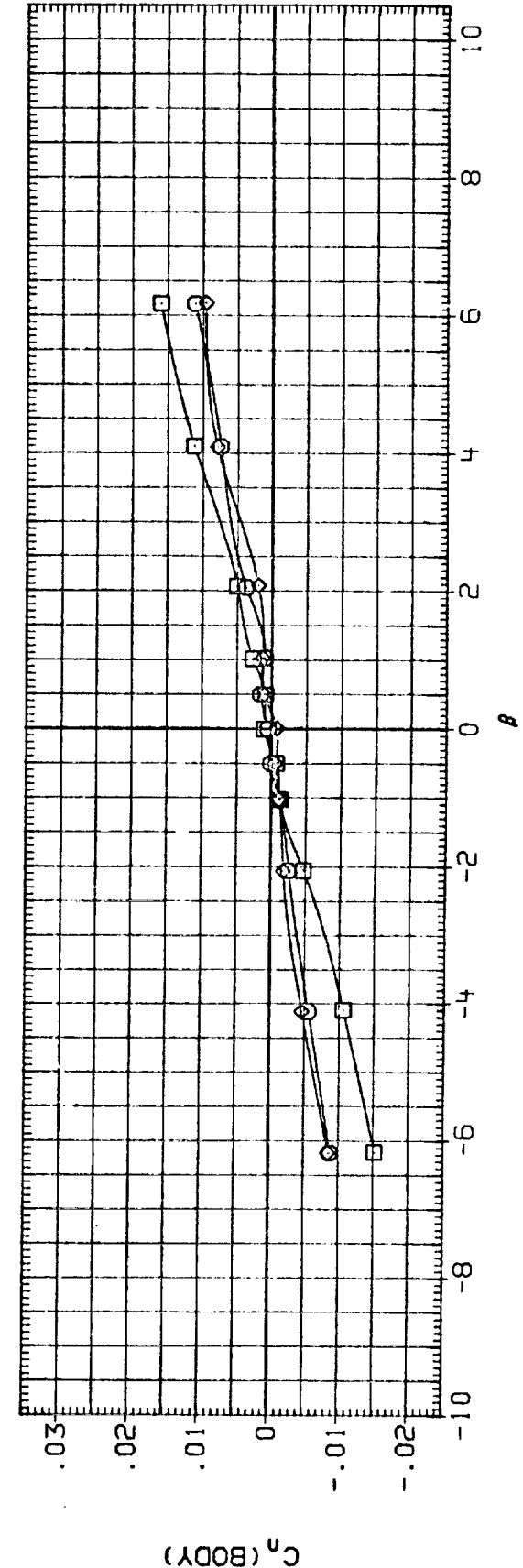
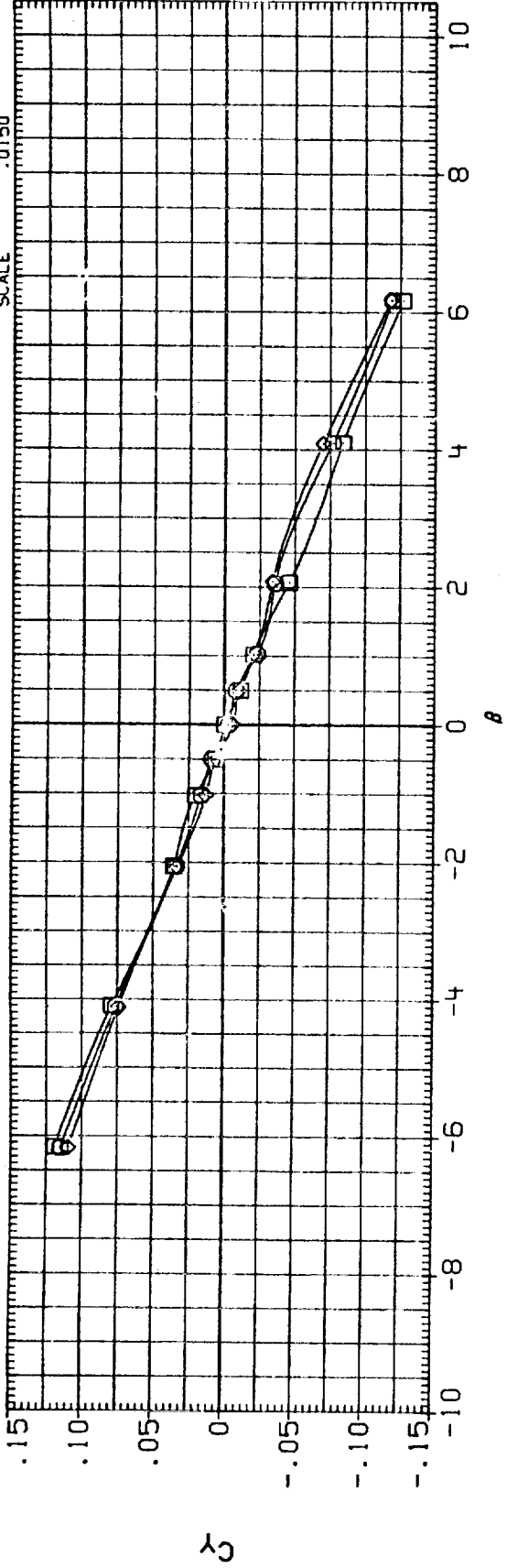


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = 1.20

| | | | | | | |
|-----------------|--|---------|---------|-------|-------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILTRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK069) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | .000 | 4.000 | SREF 2690.0000 SQ. FT. |
| (RUK058) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | .000 | 4.000 | LREF 474.8000 INCHES |
| (RUK087) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | .000 | 4.000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

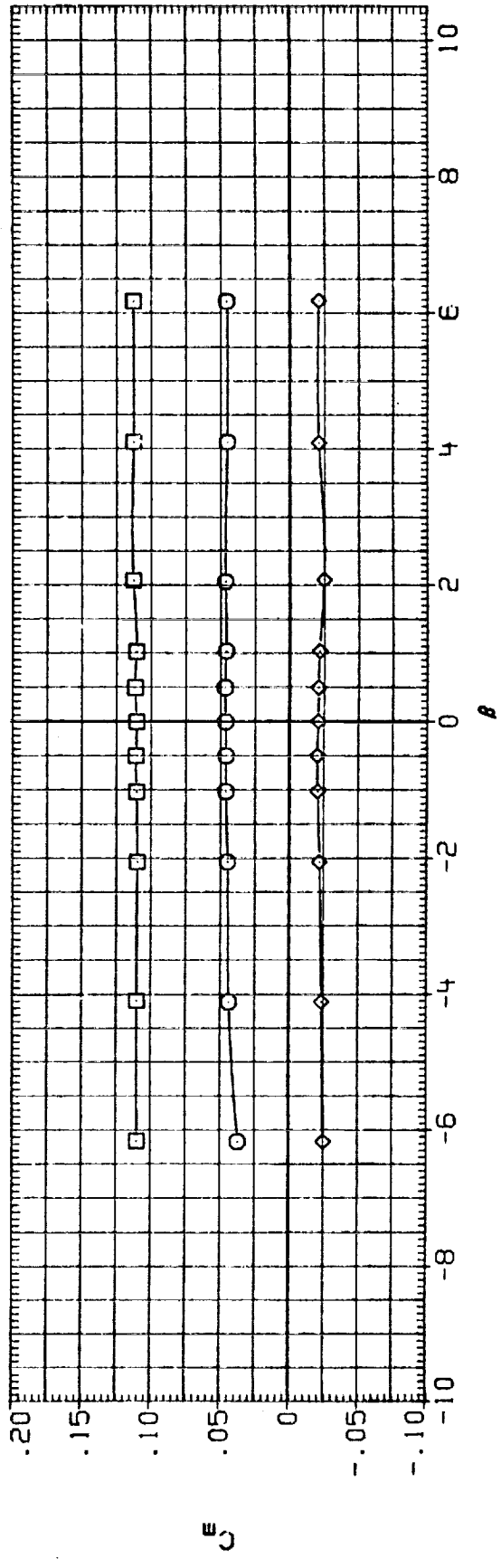
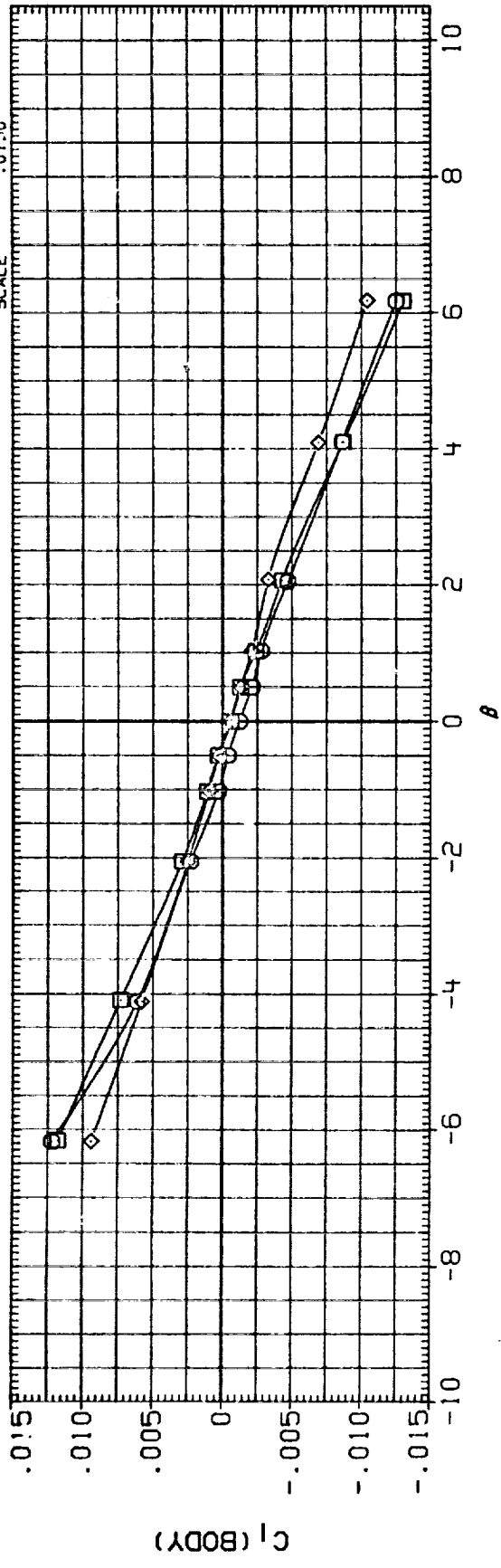


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK069) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK058) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK087) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON
 .000
 -10.000
 10.000

AILERON
 .000
 .000
 .000

ALPHA
 .000
 .000
 .000

RN/L
 4.000
 4.000
 4.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 YMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

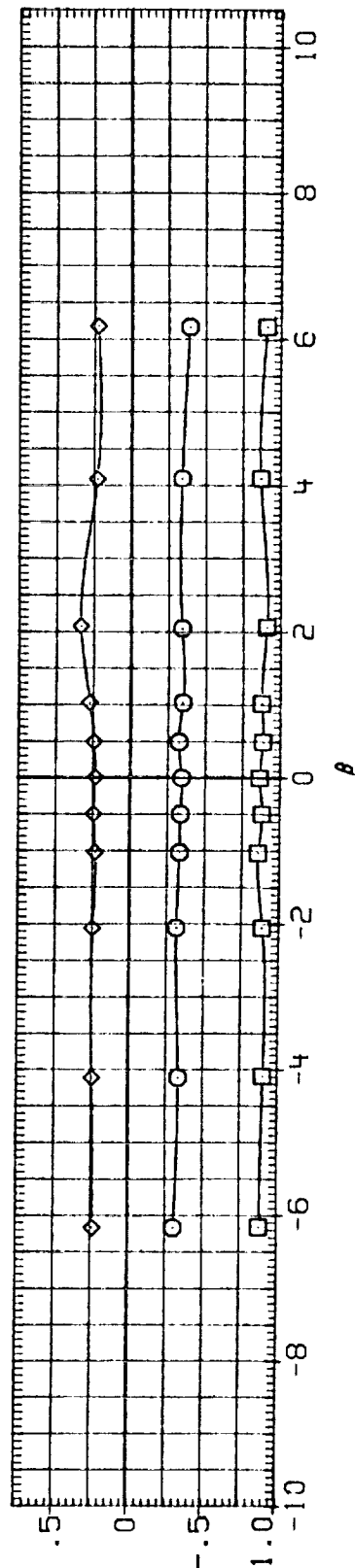
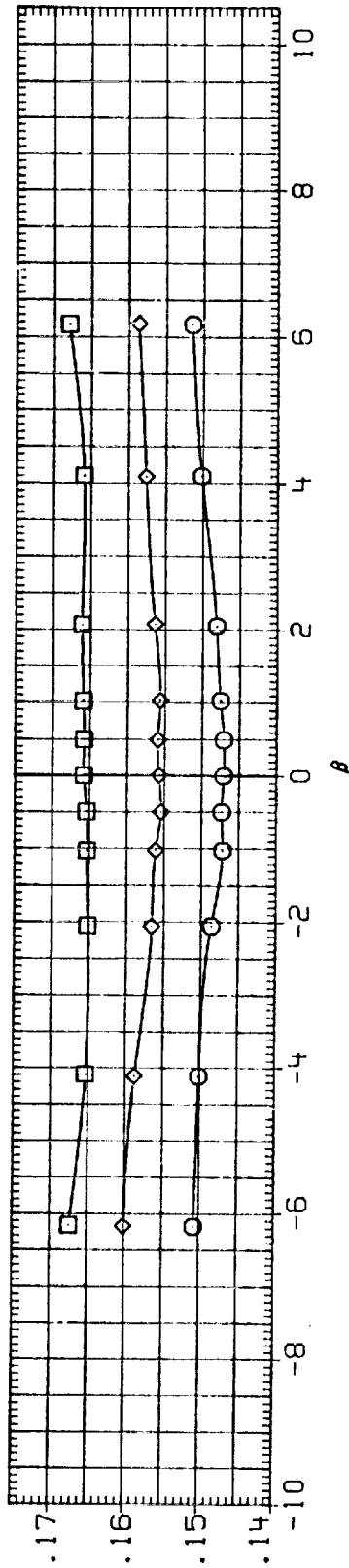
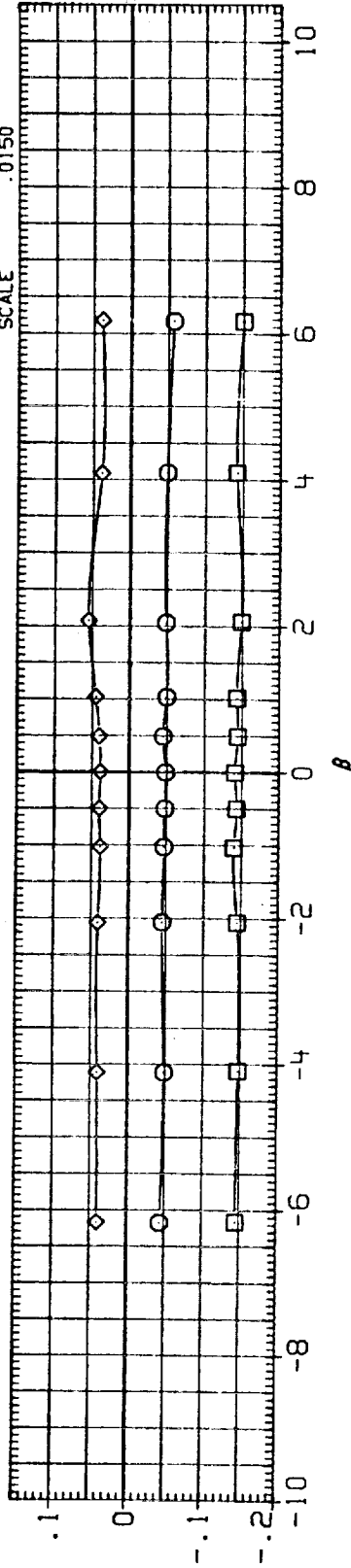


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|-------|-----------------------|
| (CUK069) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | .000 | 4.000 | SREF 2690.0000 SQ.FT. |
| (CUK058) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | .000 | 4.000 | LREF 474.8000 INCHES |
| (CUK087) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | .000 | 4.000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

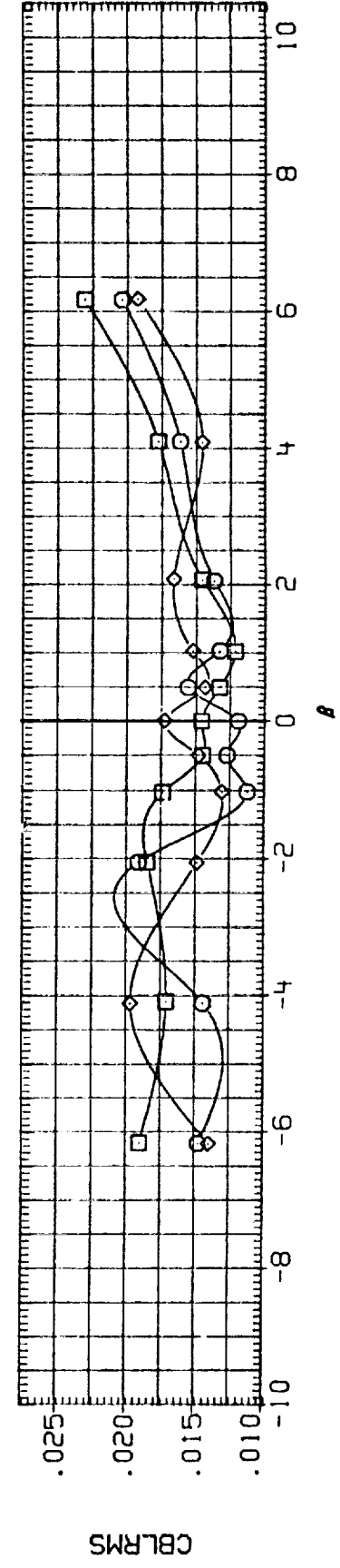
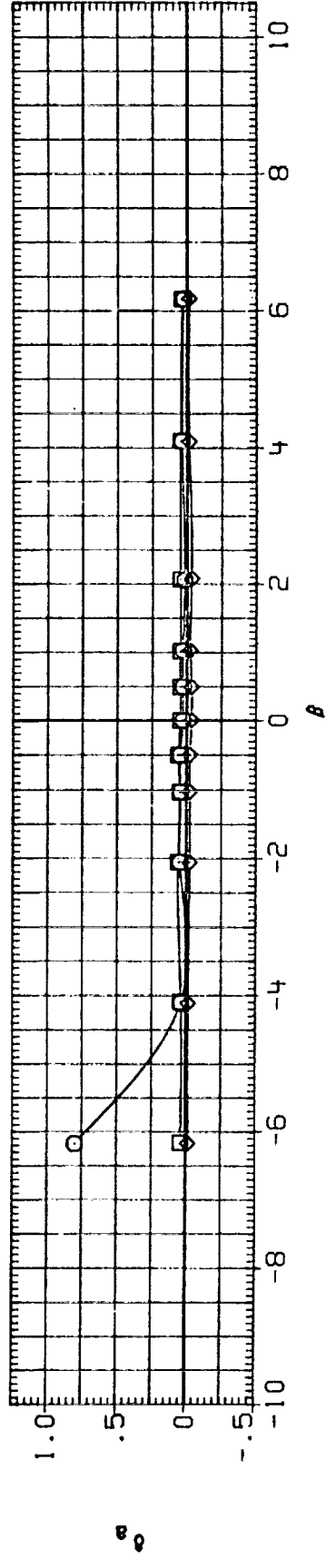
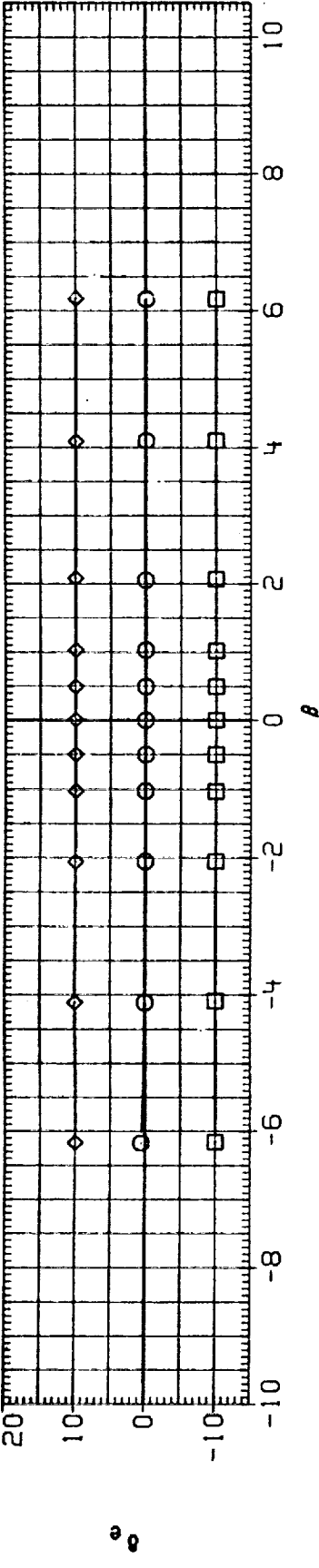


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = 1.20

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | A ILRON | ALPHA | RN/L | REFERENCE INFORMATION |
|----------|--------|--|---------|---------|-------|-------|-----------------------|
| (RUK071) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK059) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.6000 INCHES |
| (RUK088) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

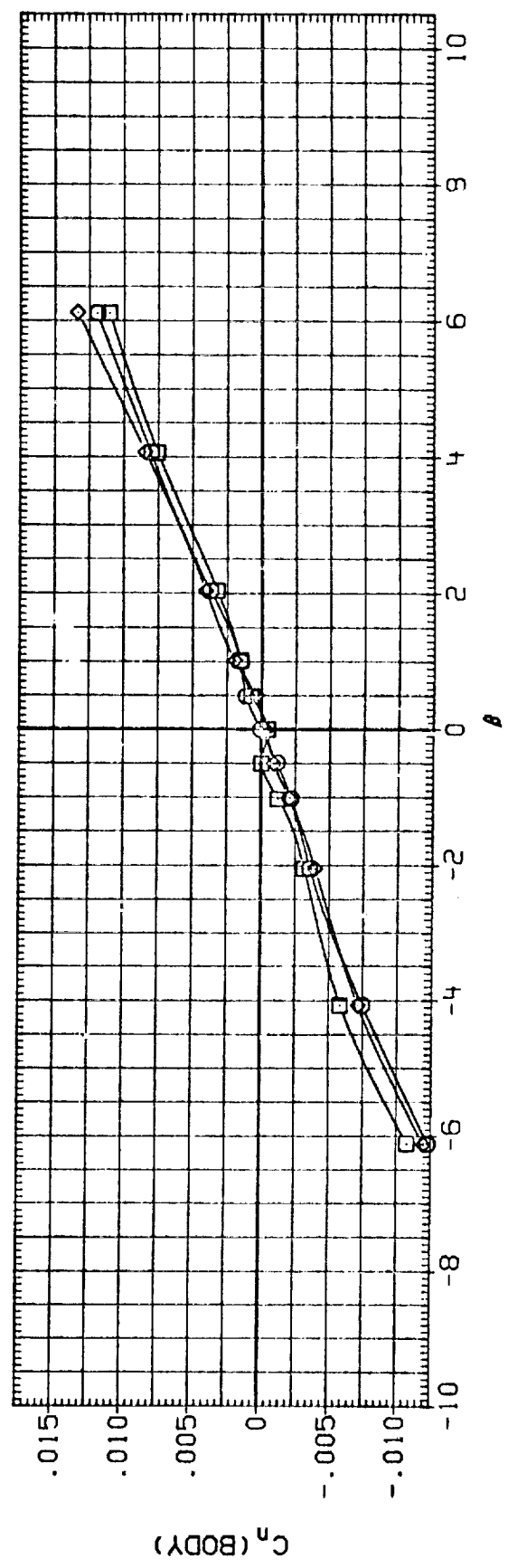
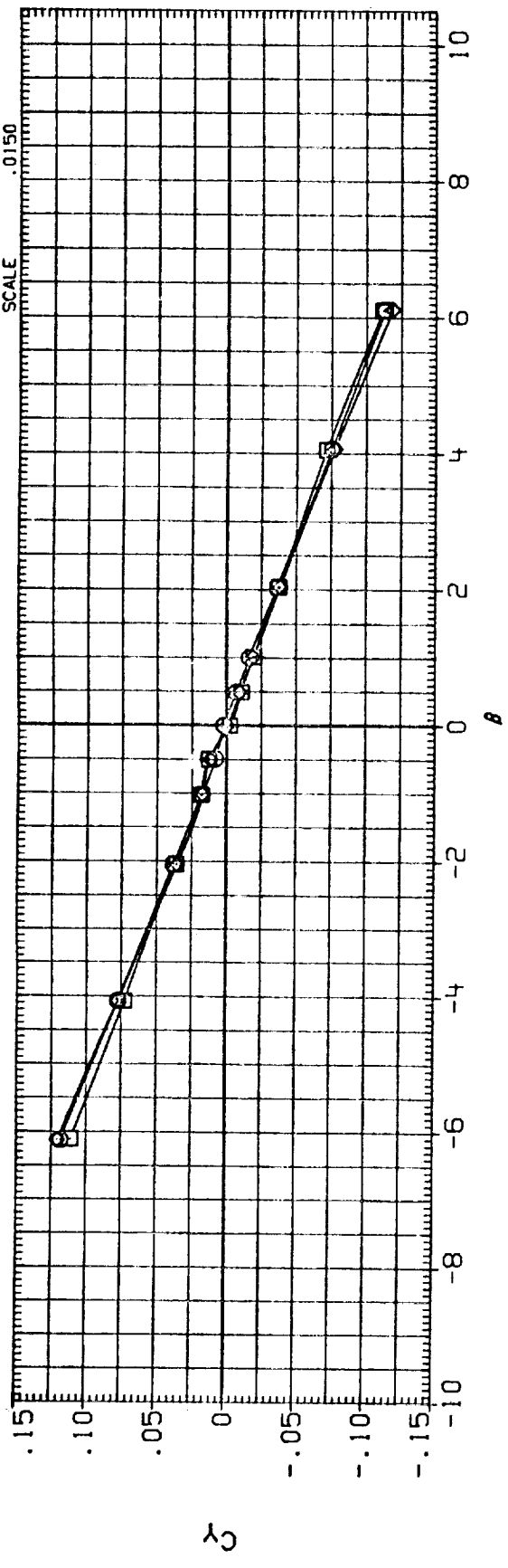


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK071) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK059) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK088) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AIRLON ALPHA RN/L

.000 .000 5.000 4.500

-10.000 .000 5.000 4.500

10.000 .000 5.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 935.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

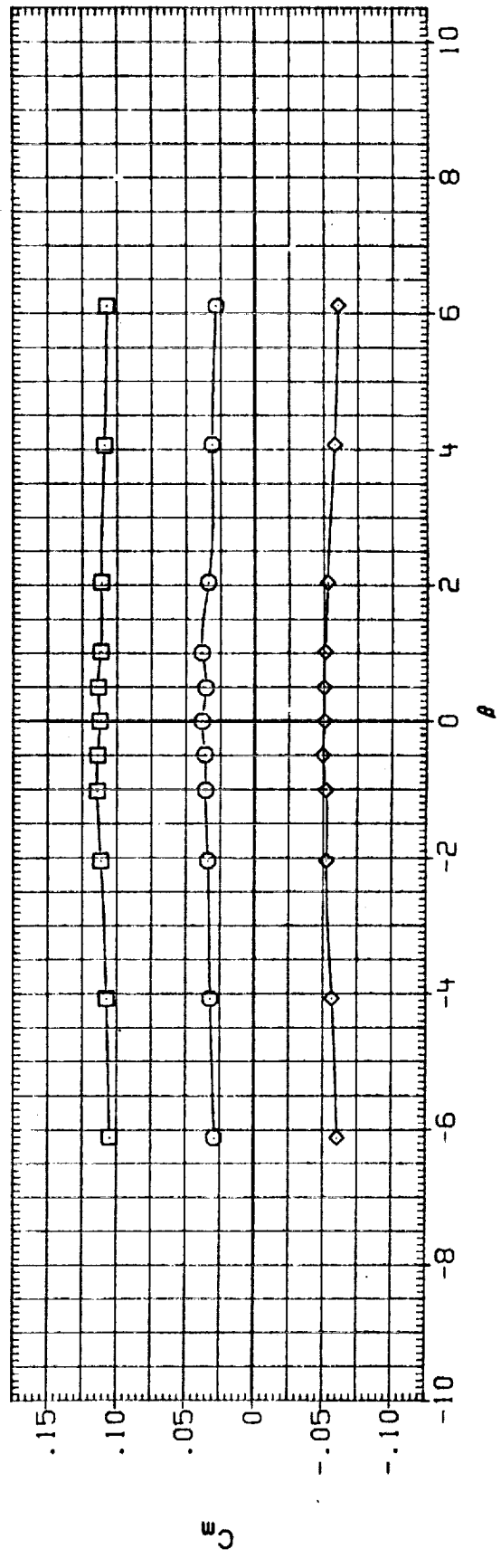
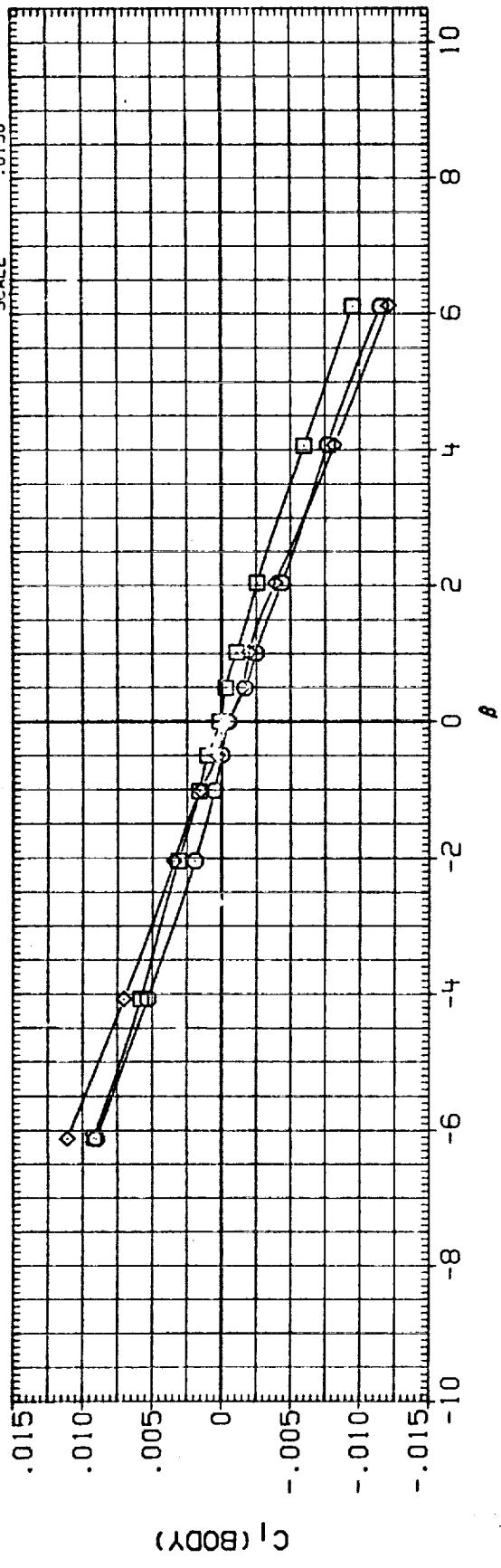


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | ALPHA | RN/L | REFERENCE INFORMATION |
|----------|--------|--|---------|---------|-------|-------|-----------------------|
| (RUK071) | ○ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 50.FT. |
| (RUK059) | □ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK088) | ◇ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | | YMRP 1076.7000 IN. X0 |
| | | | | | | | ZMRP .0000 IN. Y0 |
| | | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | | SCALE .0150 |

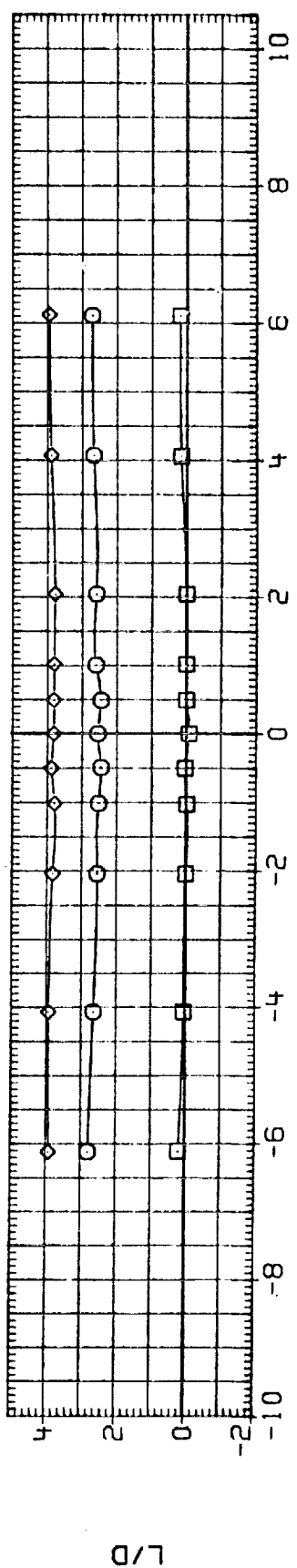
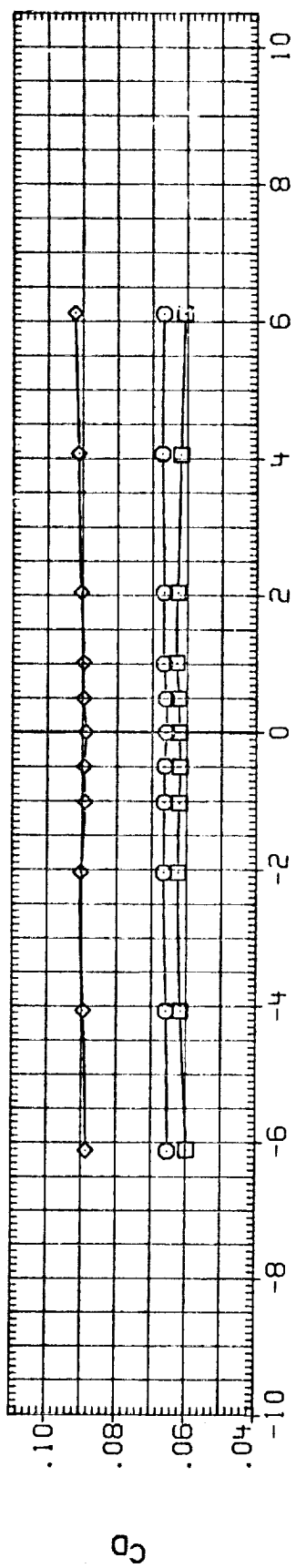
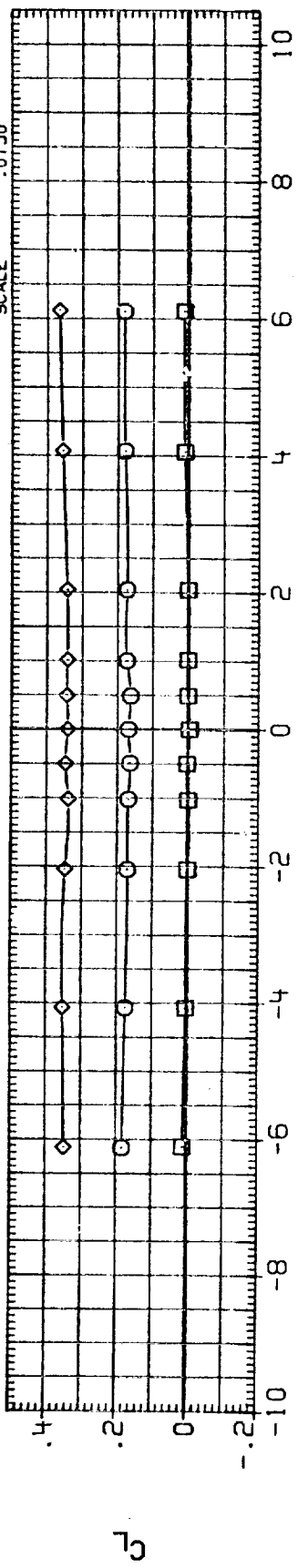


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .60

| | | | | | | |
|-----------------|--|---------|---------|-------|-------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | ALPHA | RN/L | REFERENCE INFORMATION |
| (CUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SQ. FT. |
| (CUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.8000 INCHES |
| (CUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | YMPP 1076.7000 IN. XO |
| | | | | | | YMPP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

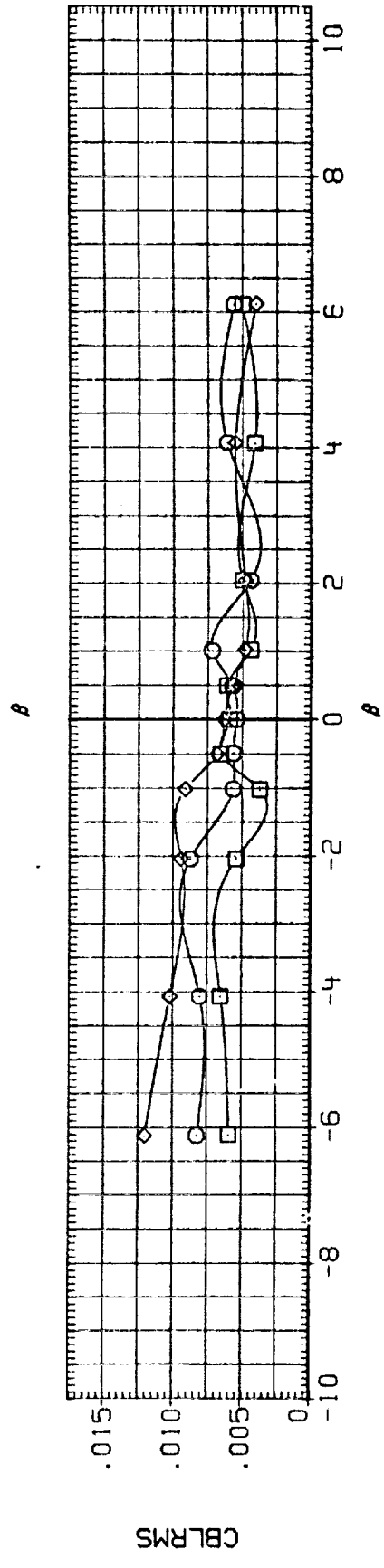
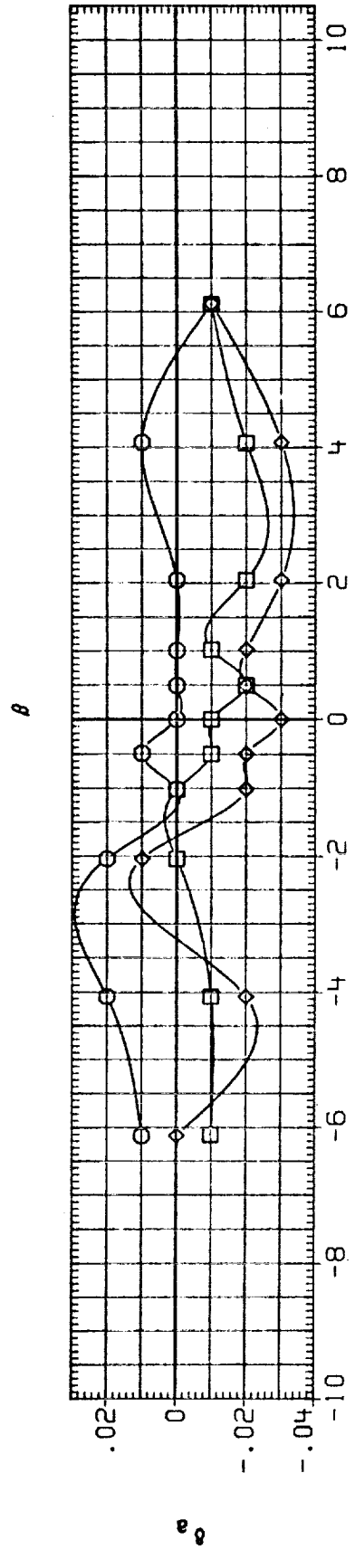
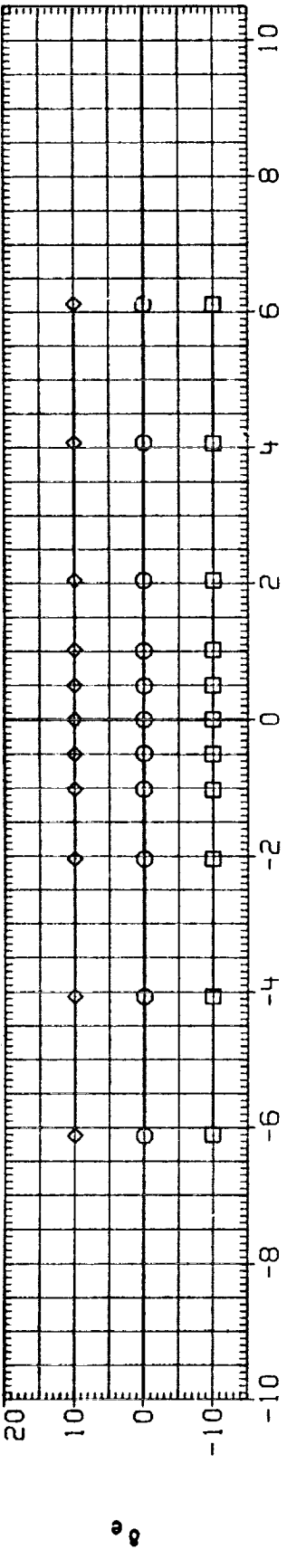


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILLRON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|---------|-------|-------|-----------------------|
| (RUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SO.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.6000 INCHES |
| (RUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

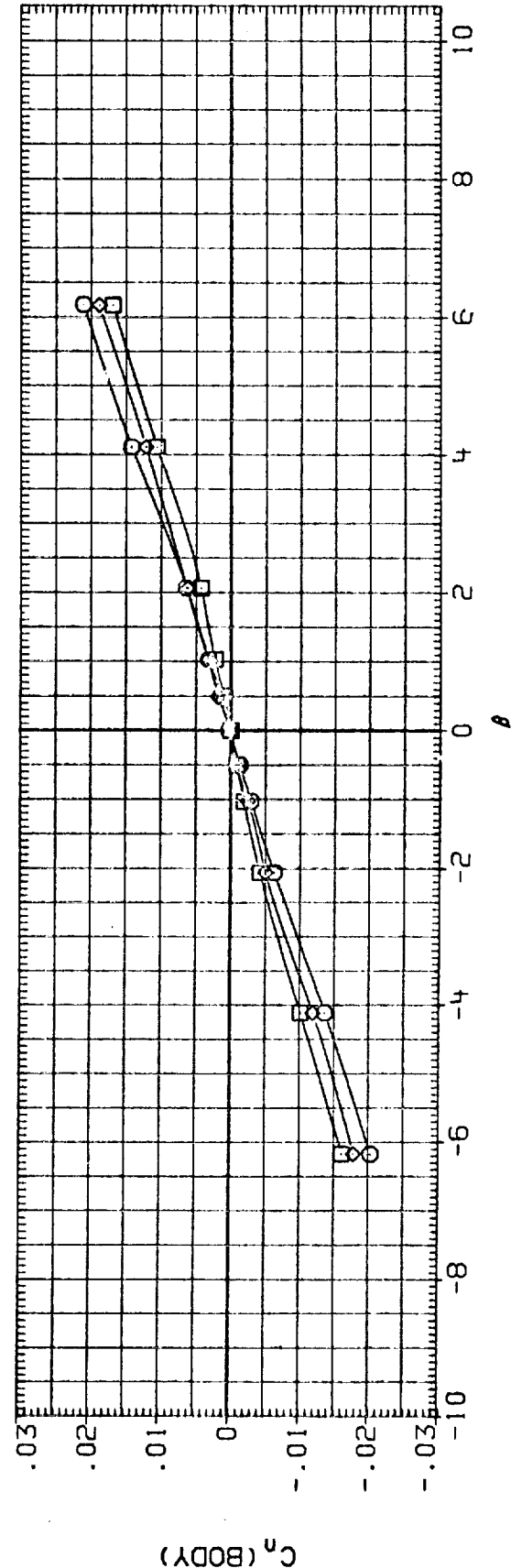
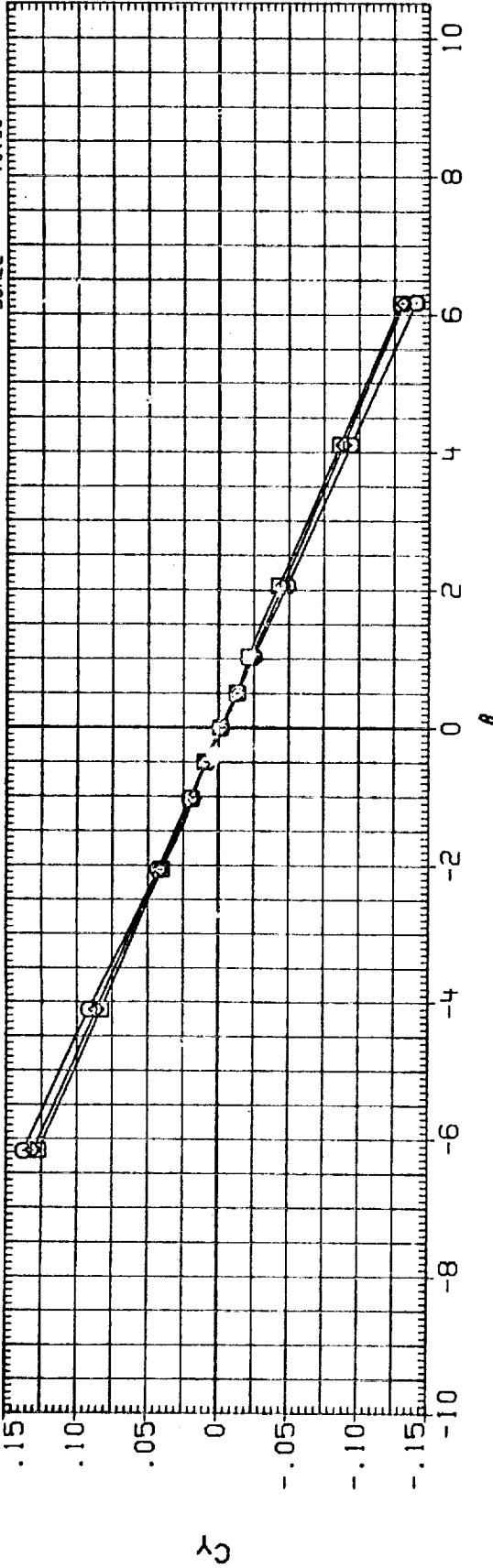


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .90

| | | | | | | |
|-----------------|--|---------|---------|-------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SO.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

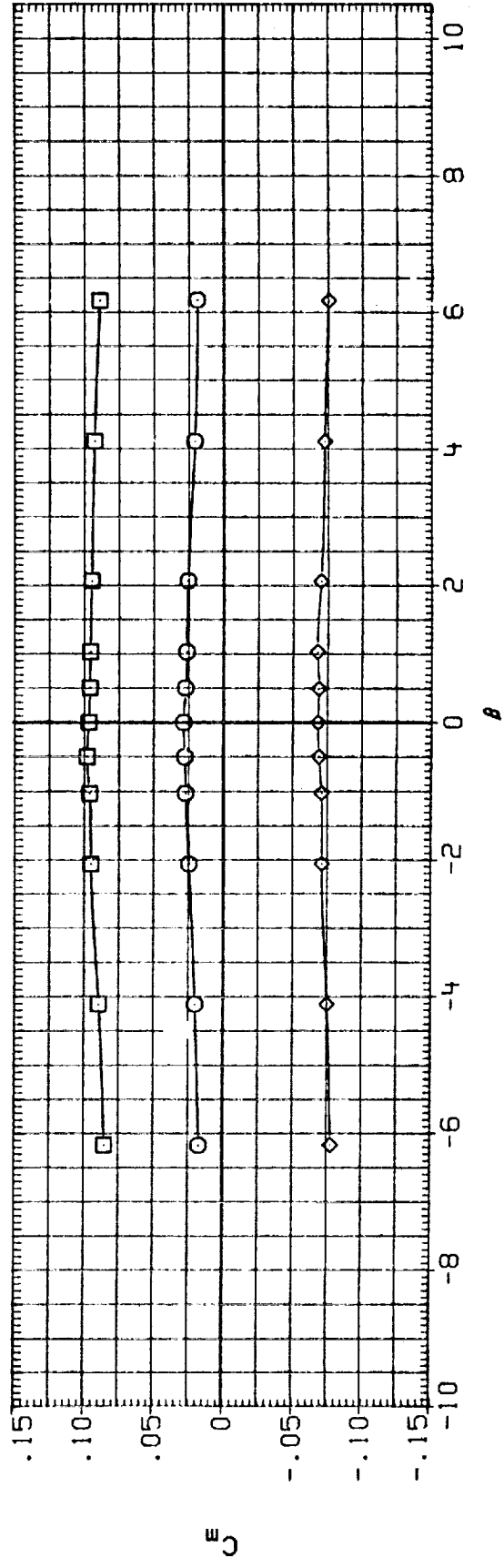
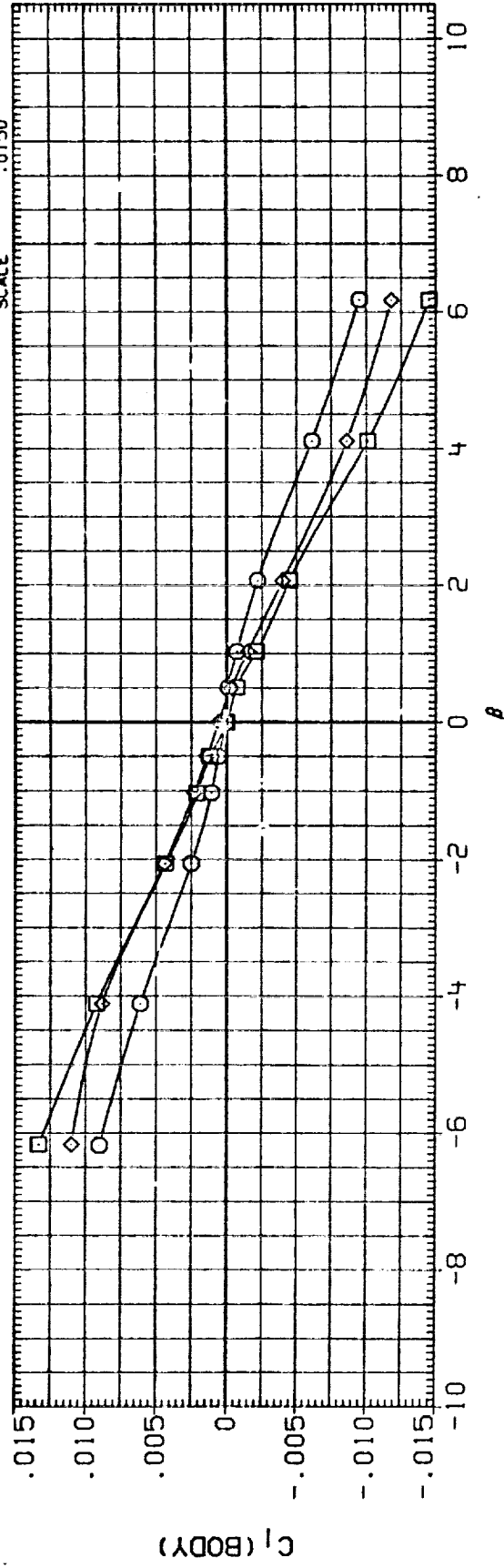


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .90

| | | | | | | |
|-----------------|--|---------|----------|-------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLIRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SO.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

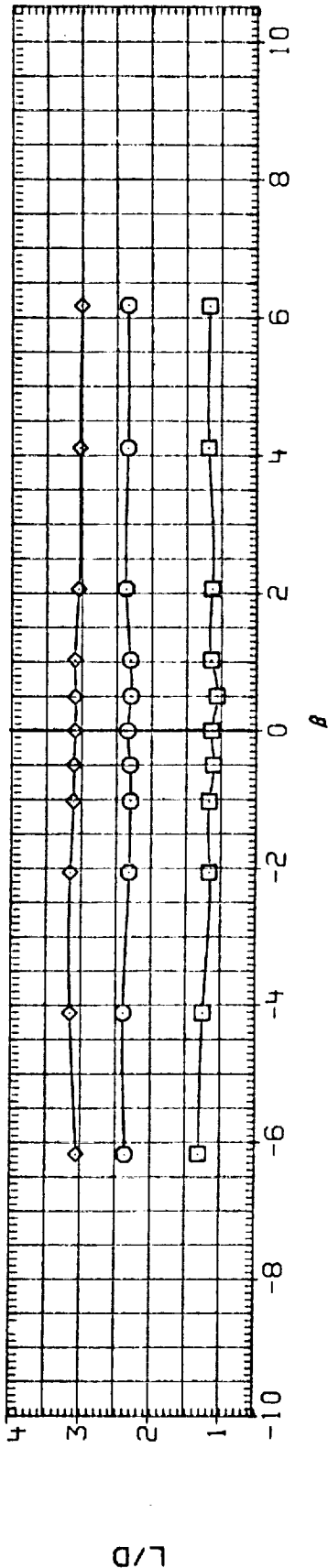
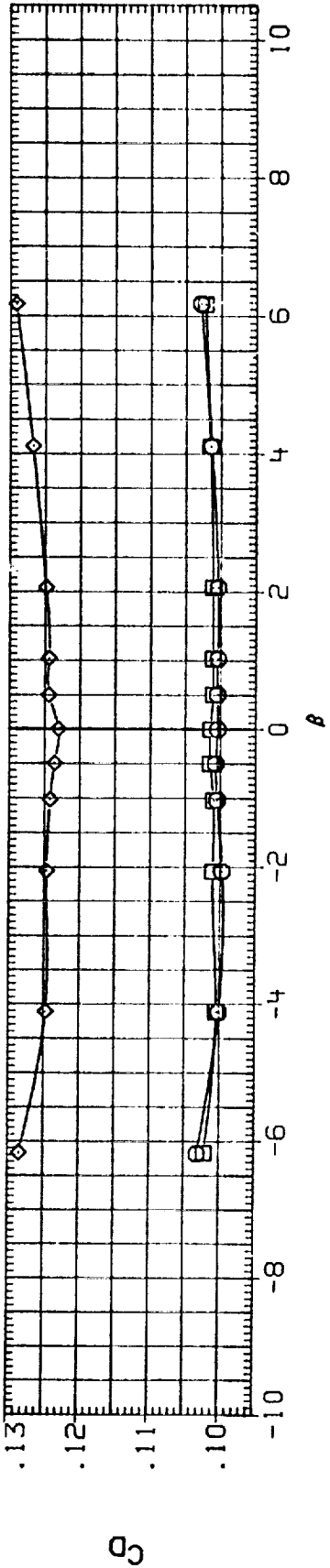
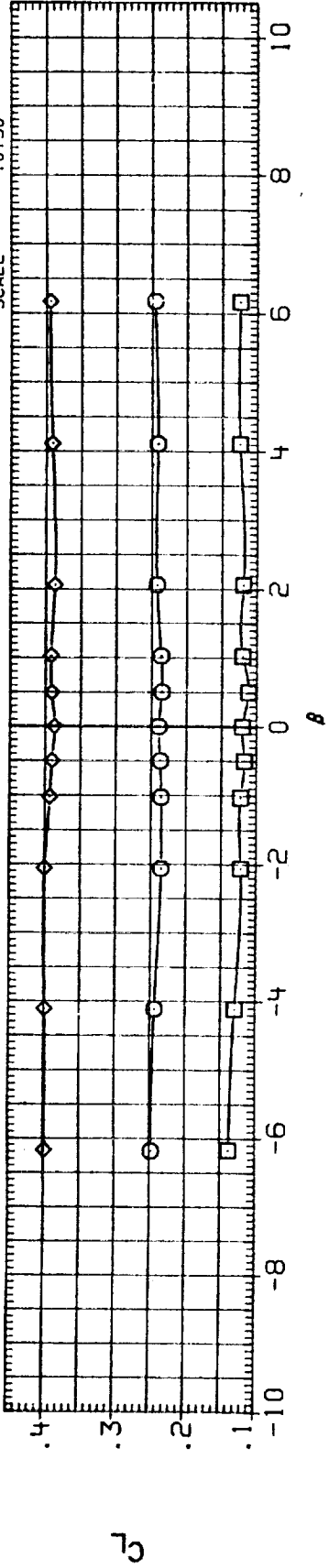


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A)MACH = .90

| | | | | | | |
|-----------------|--|---------|--------|-------|-------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (CUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SQ. FT. |
| (CUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.8000 INCHES |
| (CUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

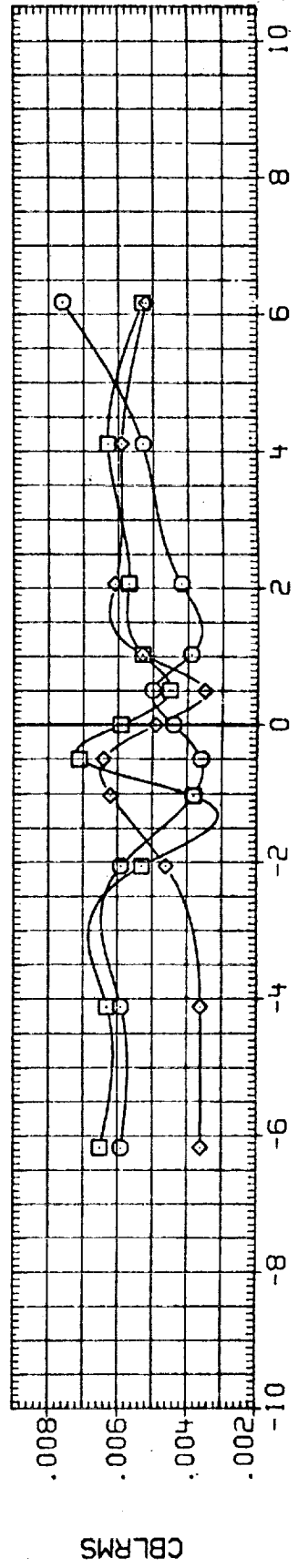
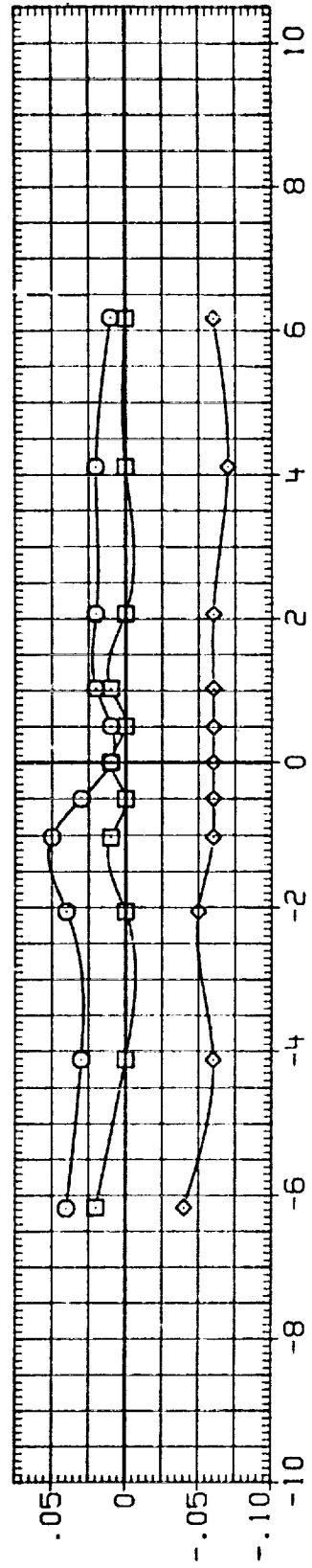
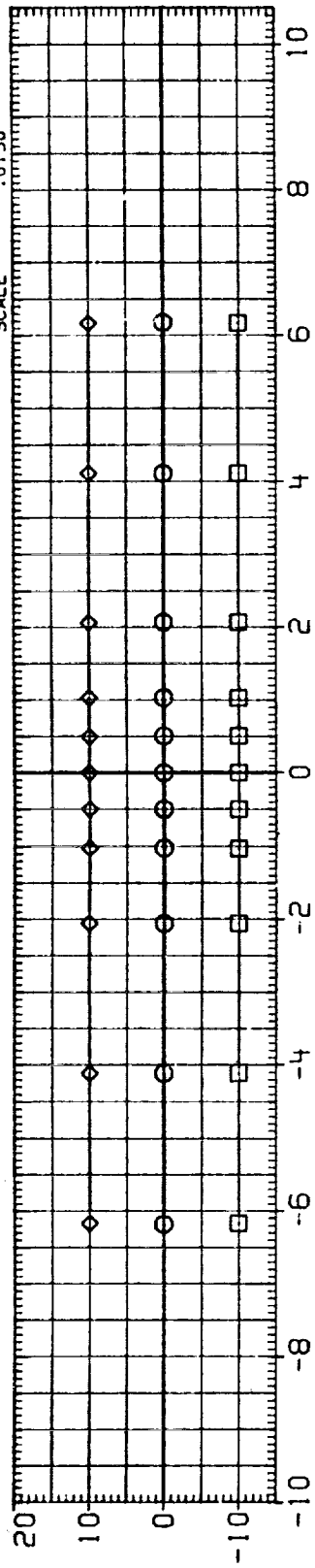


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
|----------|--------|--|---------|--------|-------|-------|-----------------------|
| (RUK071) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK059) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK088) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

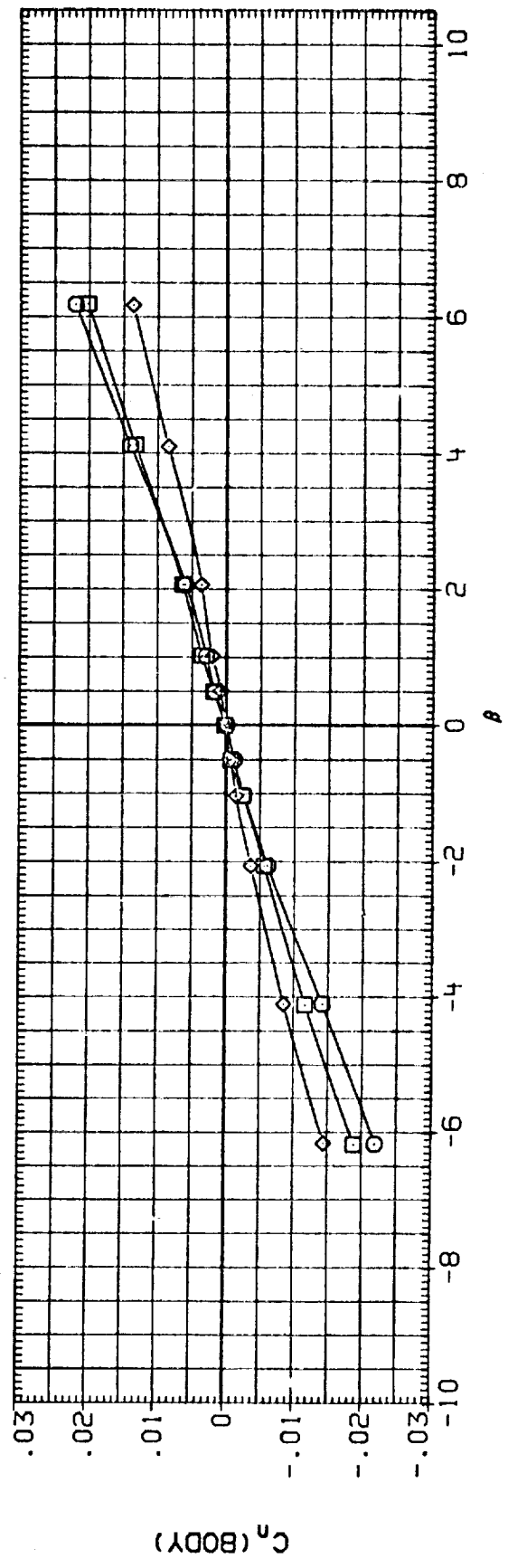
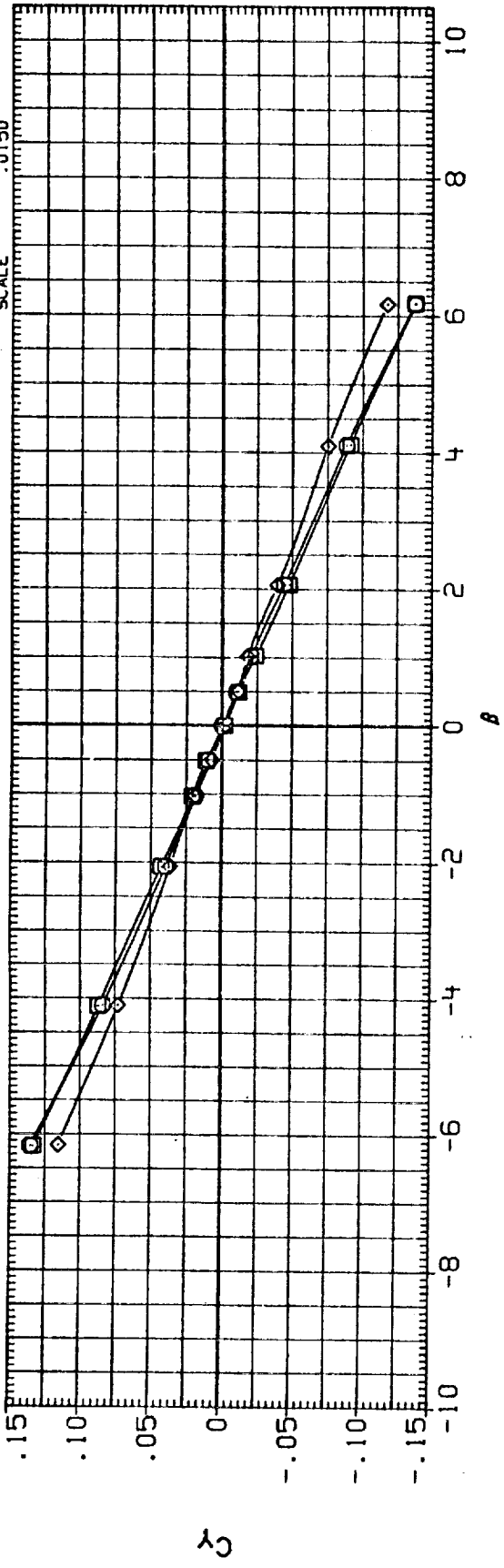


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

| | | | | | | |
|-----------------|--|---------|---------|-------|-------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | ALPHA | FN/L | REFERENCE INFORMATION |
| (RUK071) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SO. FT. |
| (RUK059) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK088) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

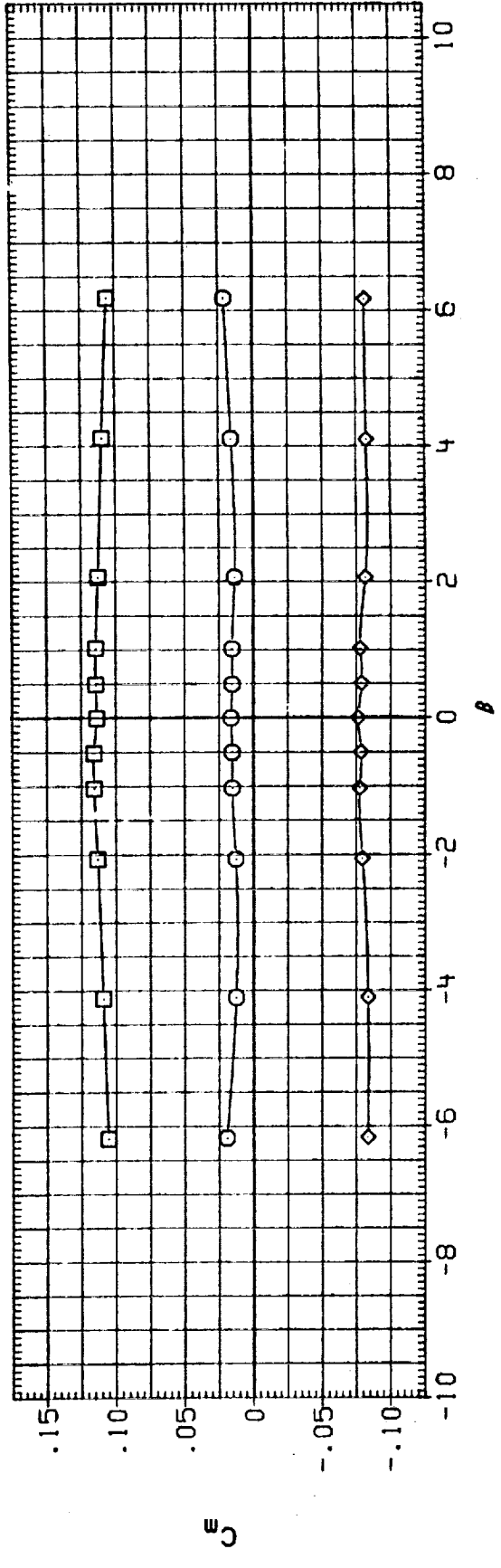
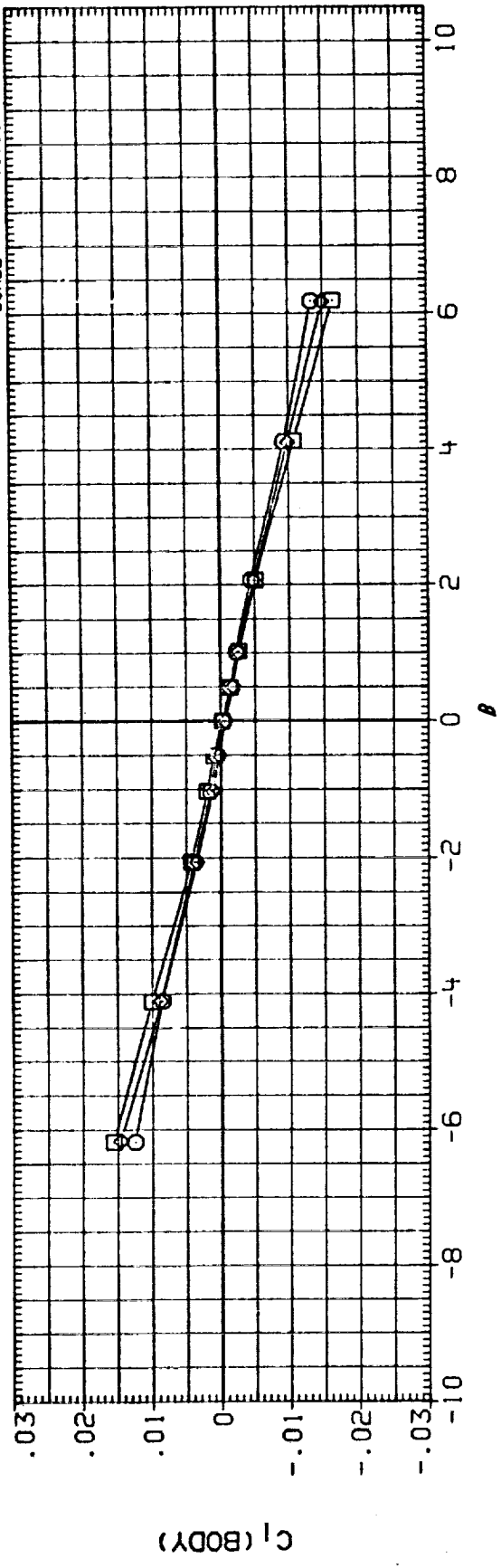


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .95

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|-------|-----------------------|
| (RUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

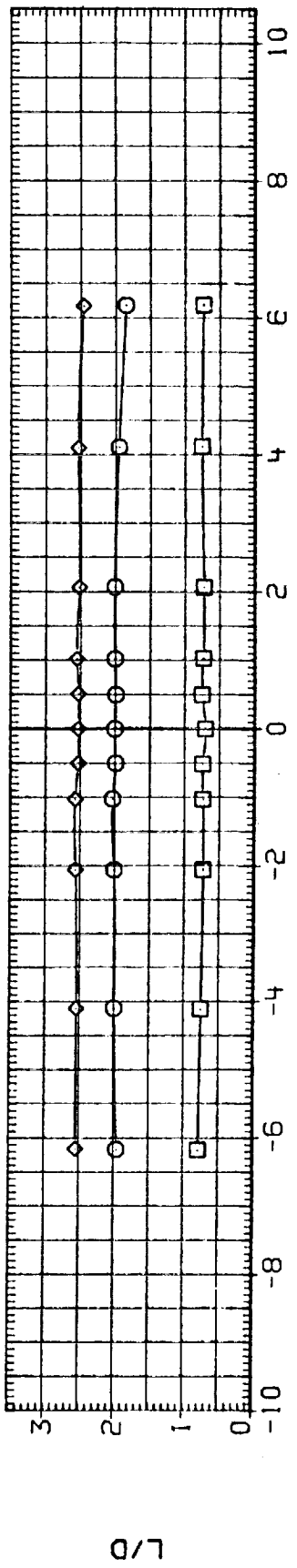
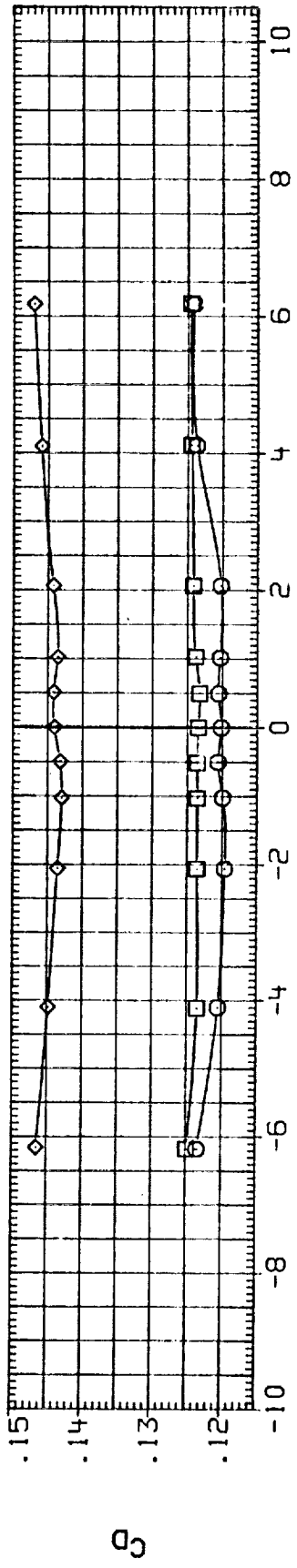
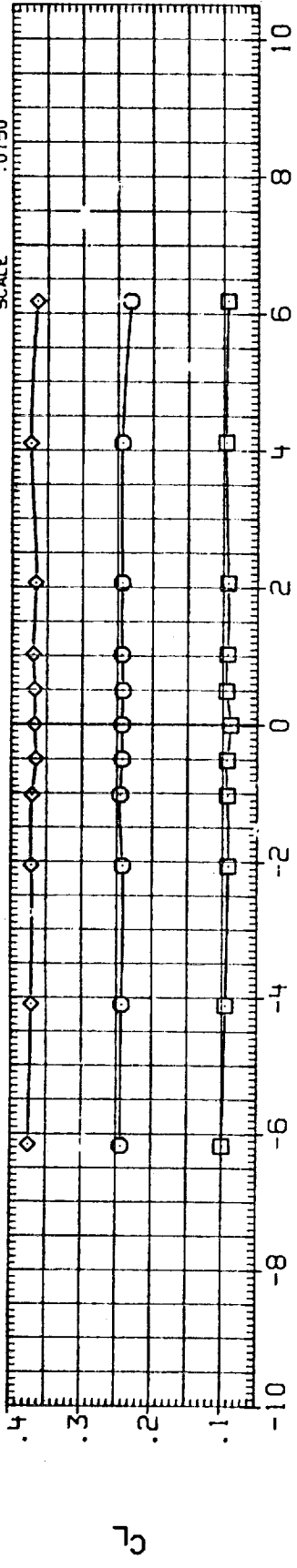


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

| | | | | | | |
|-----------------|--|---------|---------|-------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | ALPHA | RN/L | REFERENCE INFORMATION |
| (CUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (CUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.8000 INCHES |
| (CUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | GREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

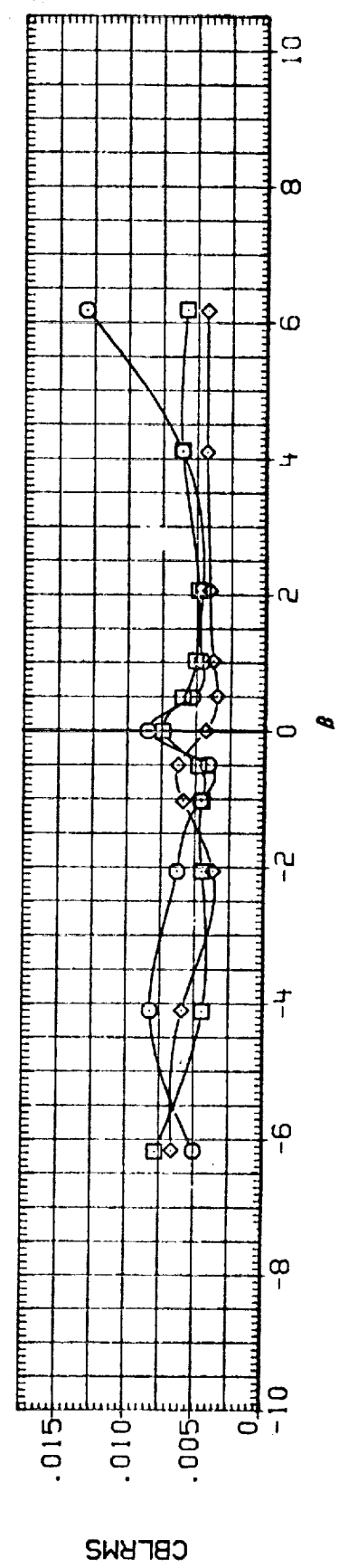
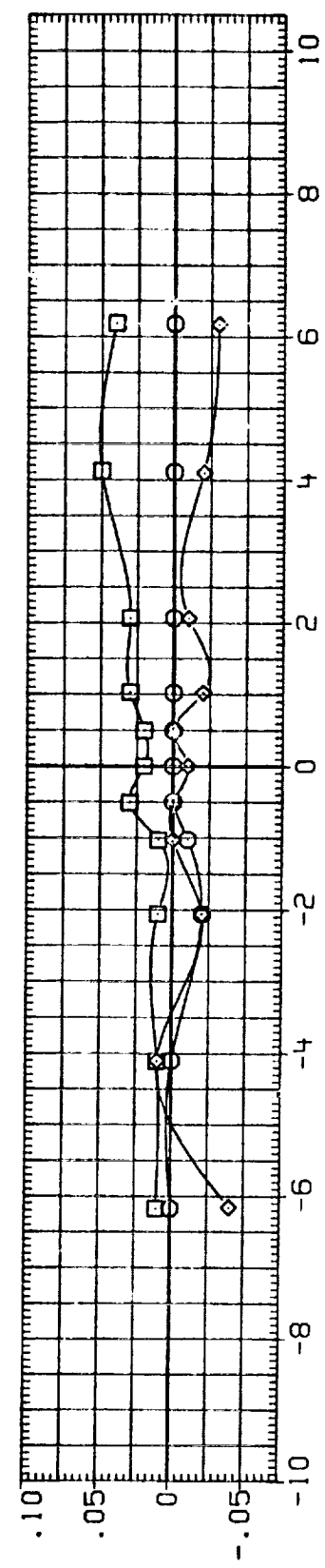
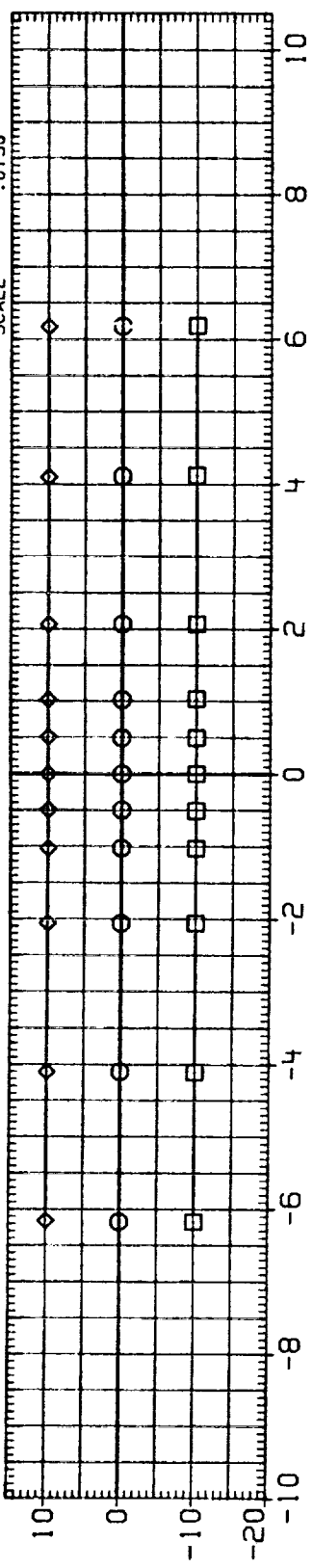


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .95

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|---------|-------|-------|-----------------------|
| (RUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SO.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

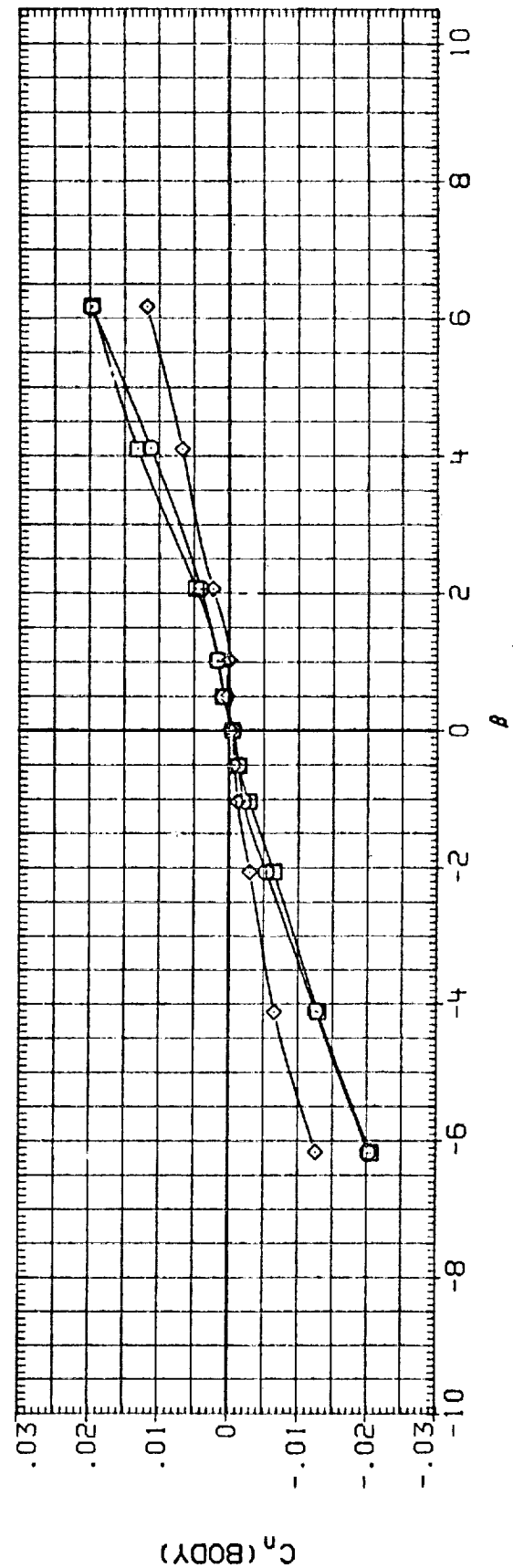
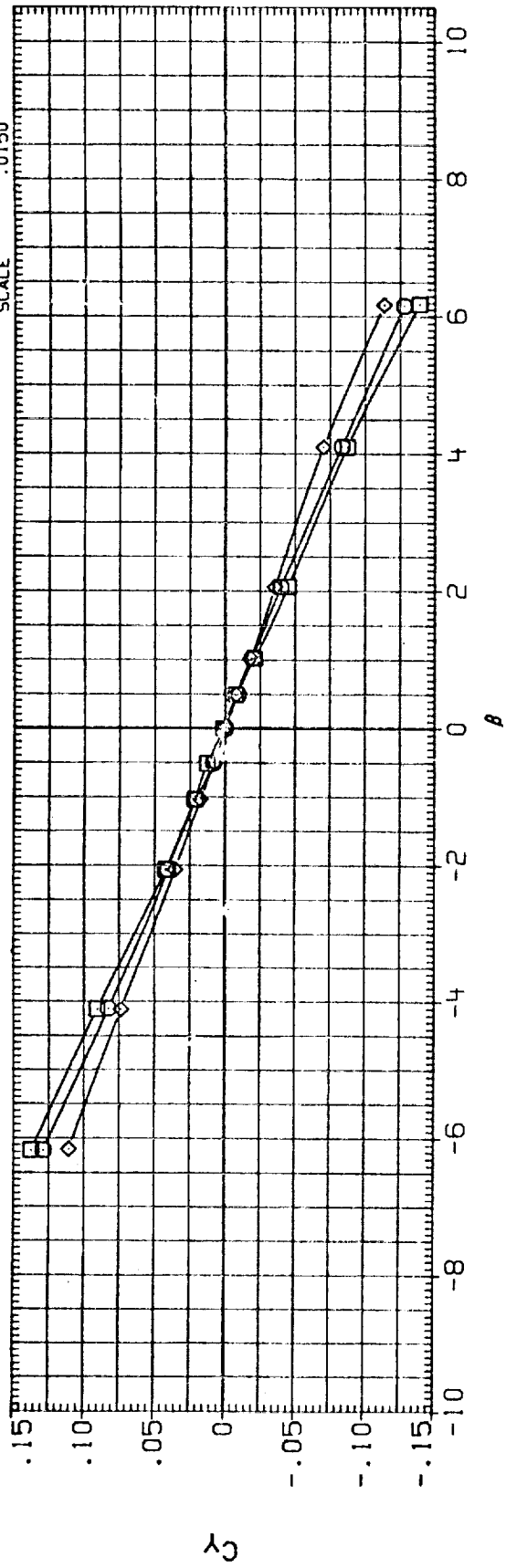


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

| | | | | | | |
|-----------------|--|---------|--------|-------|-------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SO. FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | YMRP 1076.7000 IN. XO |
| | | | | | | ZMRP .0000 IN. YO |
| | | | | | | SCALE 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

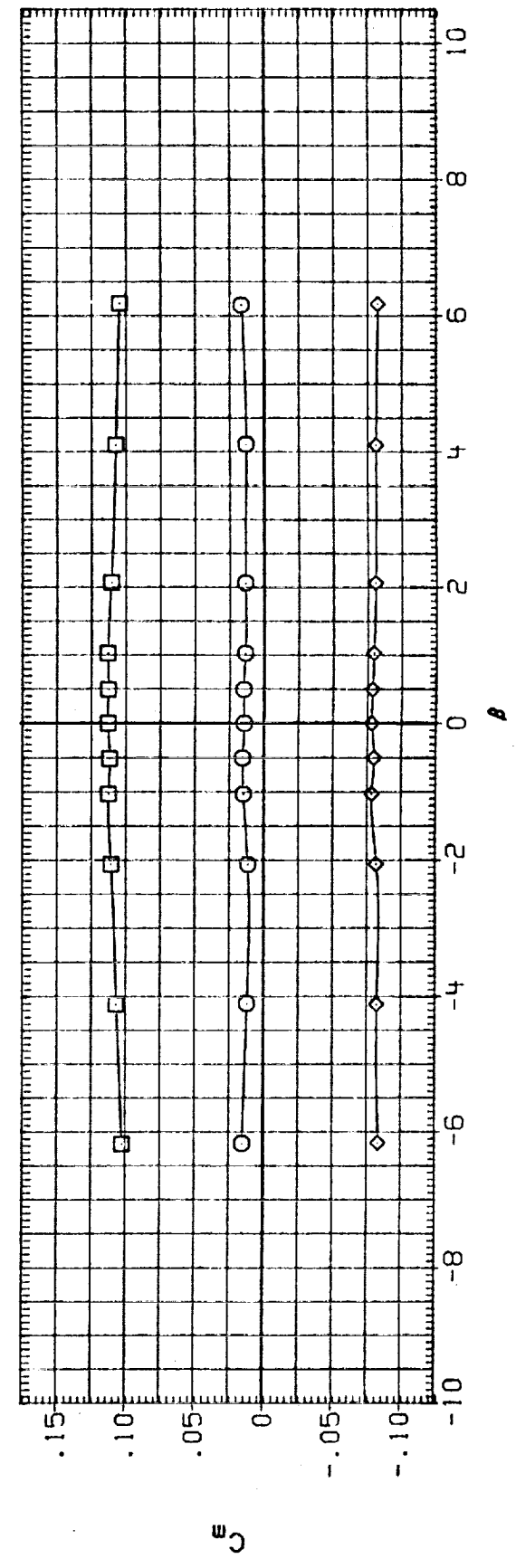
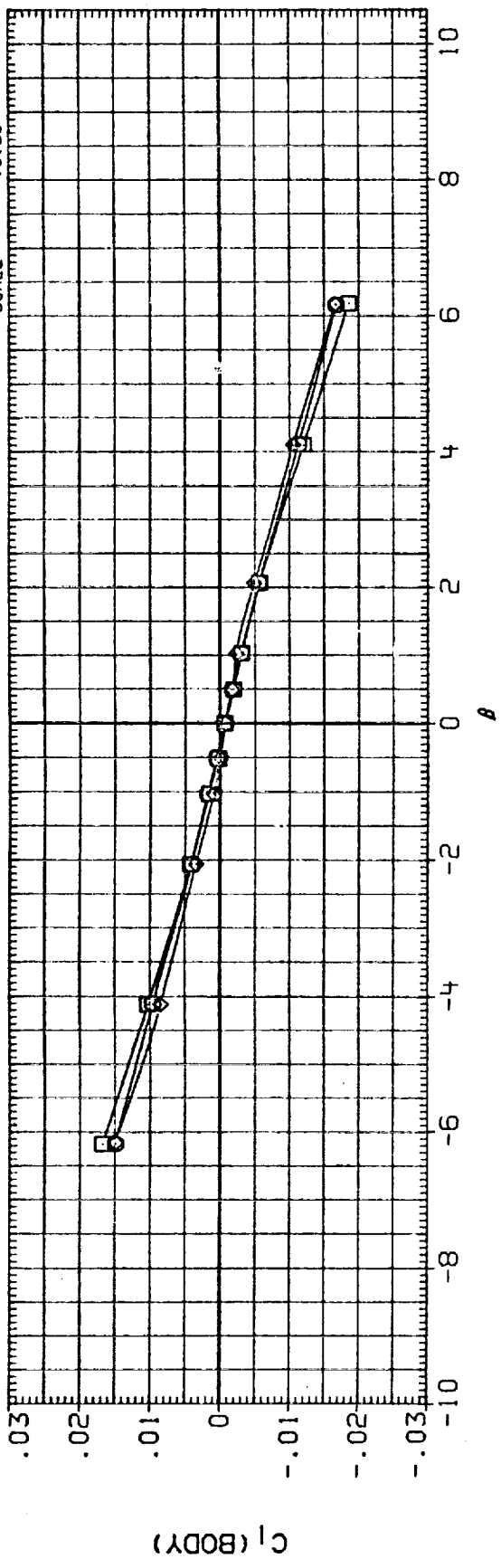


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .98

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|-------|-----------------------|
| (RUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

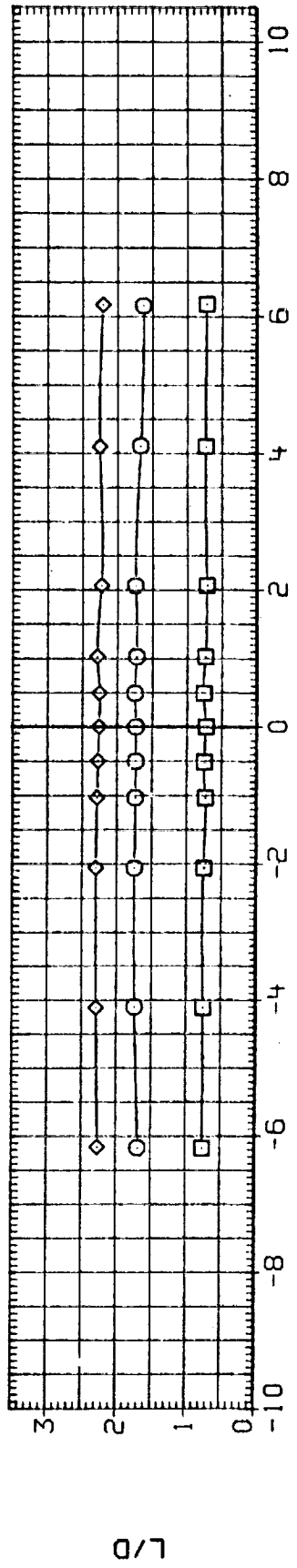
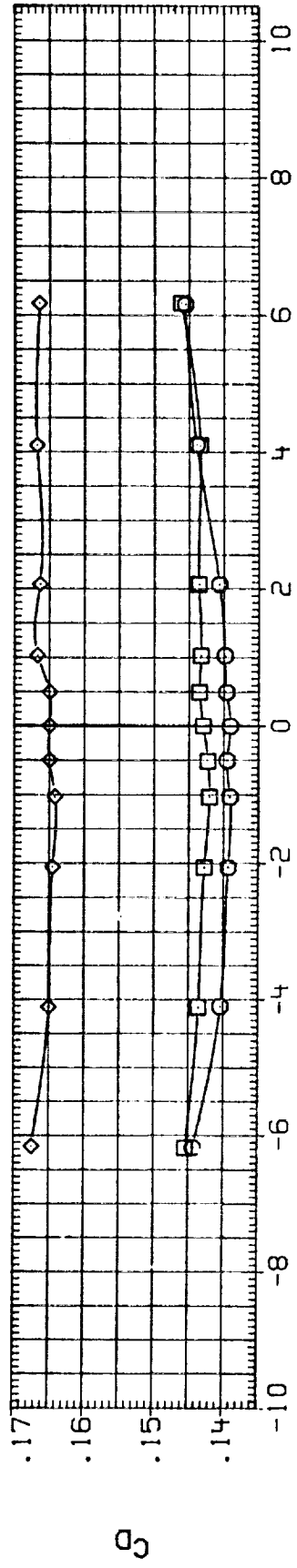
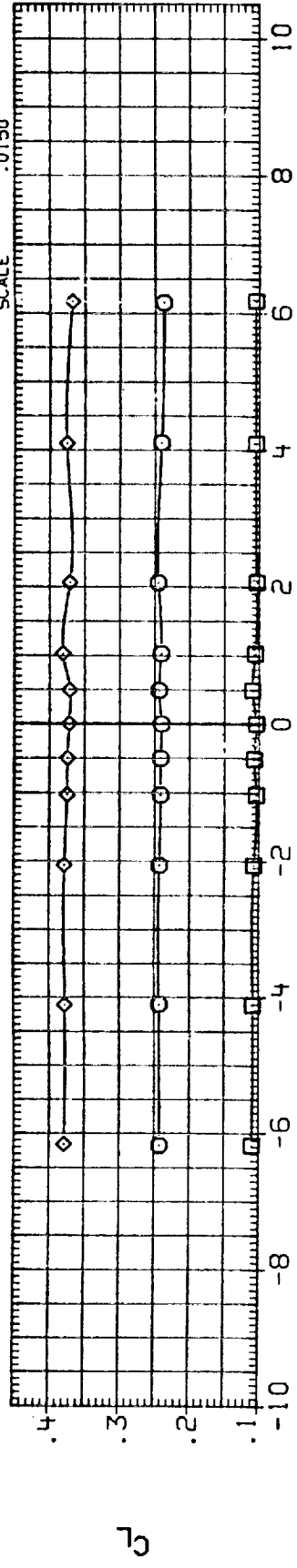


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

DATA SET SYMBOL CONFIGURATION DESCRIPTION

- (CUK071) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (CUK059) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (CUK088) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

- ELEVON AIRLON ALPHA RN/L
- .000 .000 5.000 4.500
- 10.000 .000 5.000 4.500
- 10.000 .000 5.000 4.500

- REFERENCE INFORMATION
- SREF 2690.0000 SQ. FT.
 - LREF 474.8000 INCHES
 - BREF 936.6800 INCHES
 - XMRP 1076.7000 IN. X0
 - YMRP .0000 IN. Y0
 - ZMRP 375.0000 IN. Z0
 - SCALE .0150

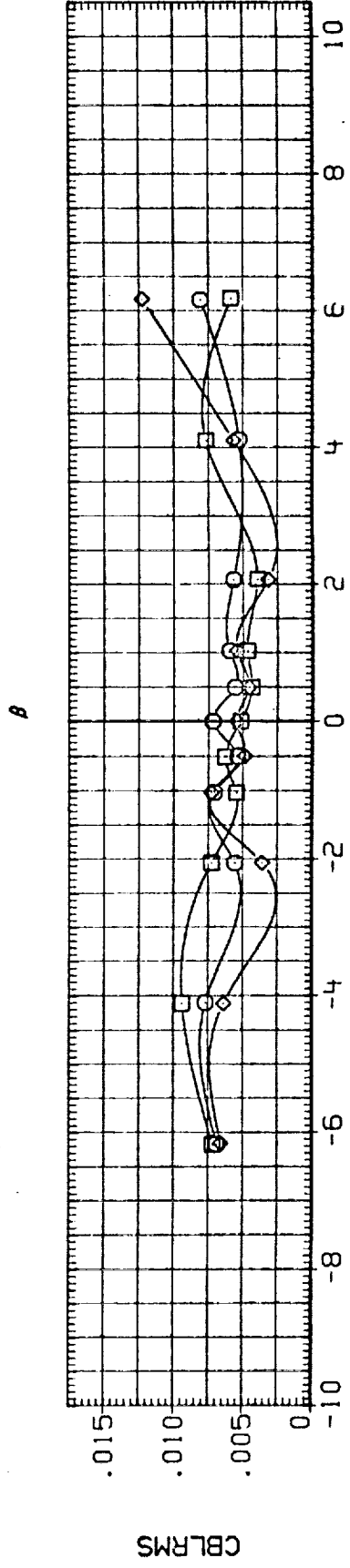
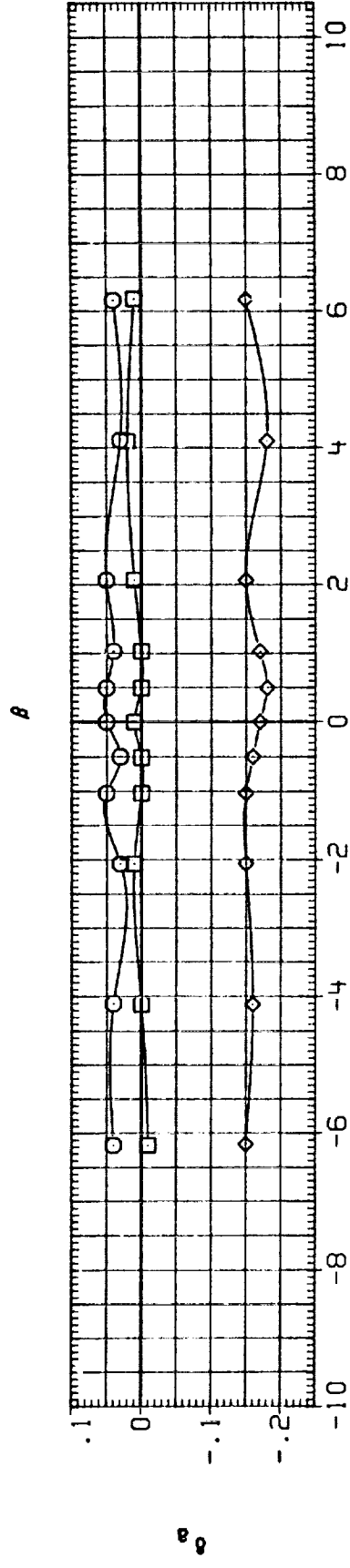
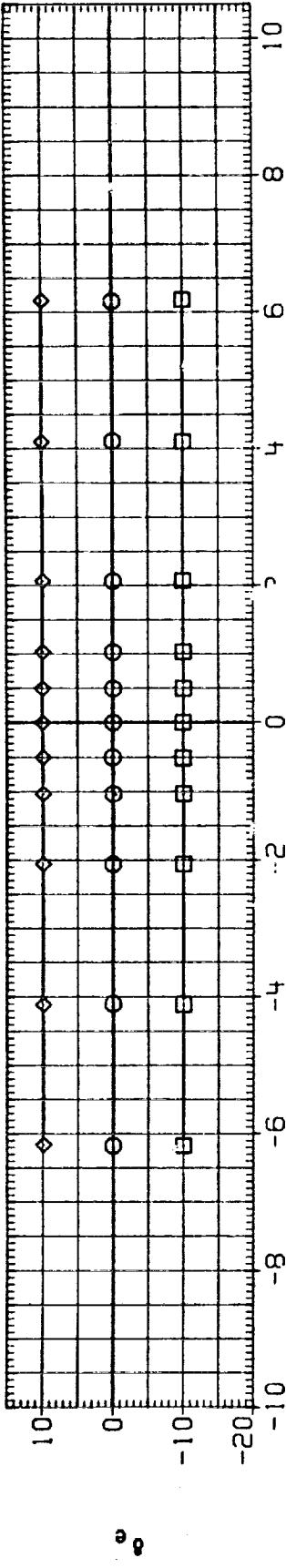


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .98

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
|----------|--------|--|---------|--------|-------|-------|-----------------------|
| (RUK071) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SO.FT. |
| (RUK059) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK088) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | | XPRP 1076.7000 IN. XO |
| | | | | | | | YPRP .0000 IN. YO |
| | | | | | | | ZPRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

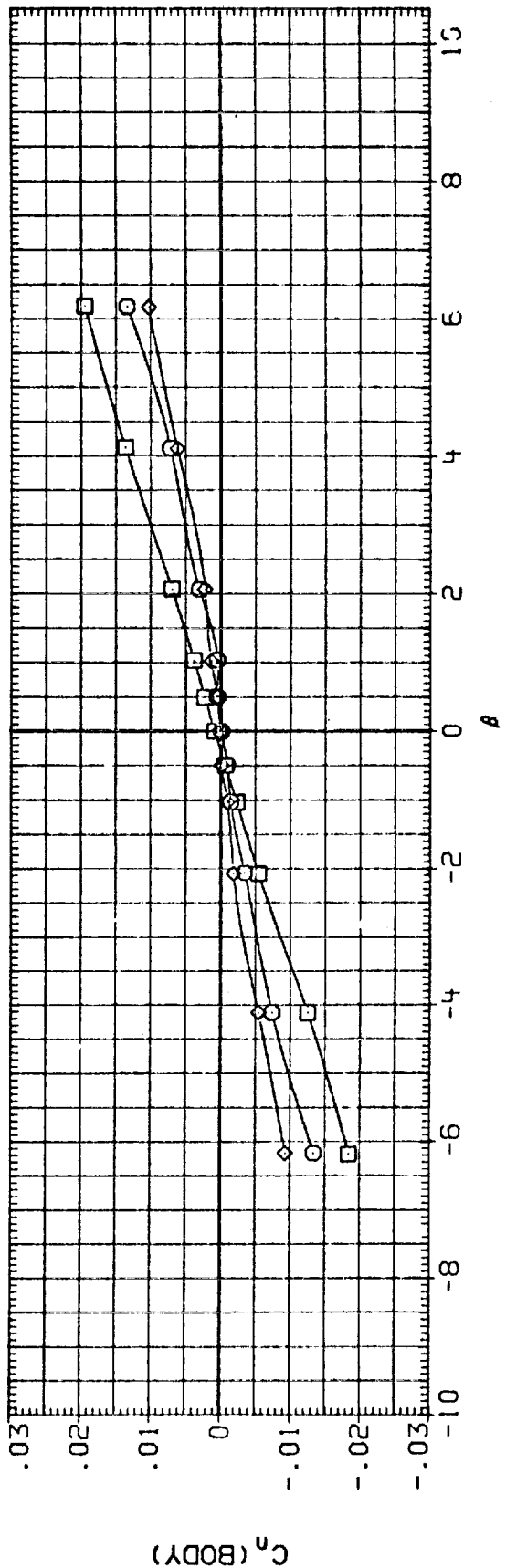
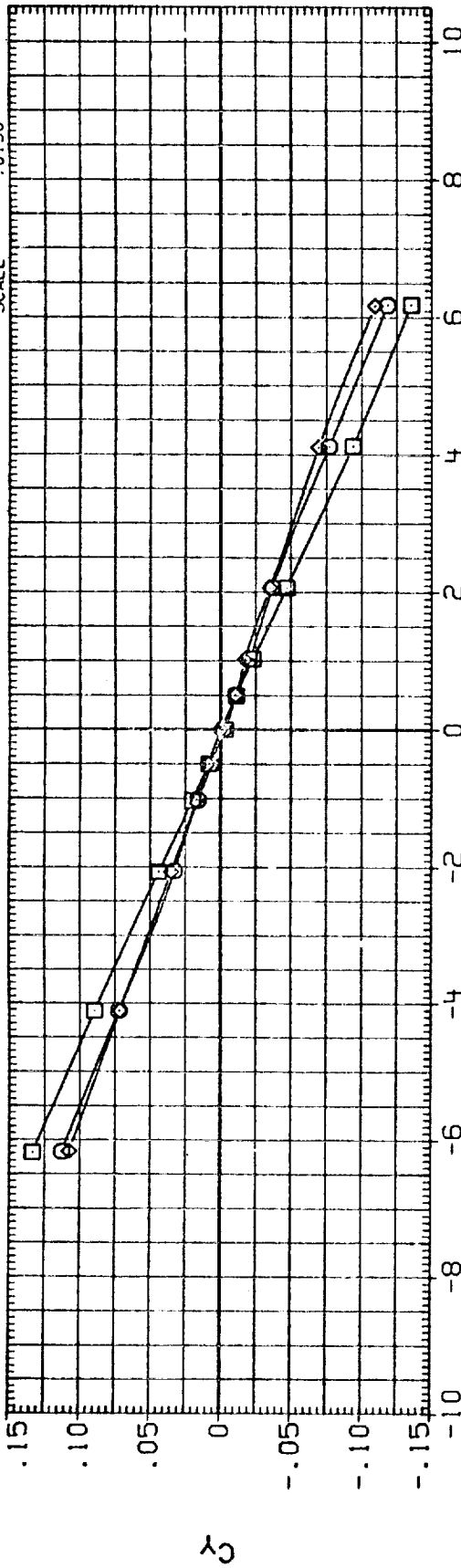


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK071) ○ LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK059) □ LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK088) ◇ LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AIRLON ALPHA RN/L

.000 .000 5.000 4.500

-10.000 .000 5.000 4.500

10.000 .000 5.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 50. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

YMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

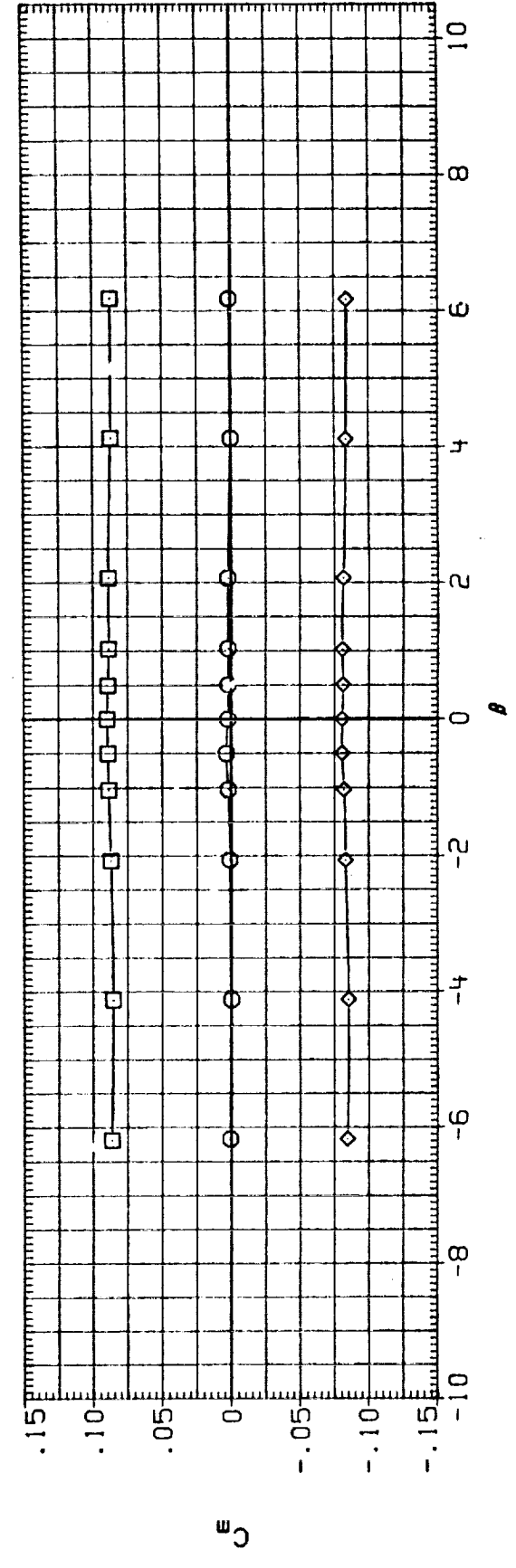
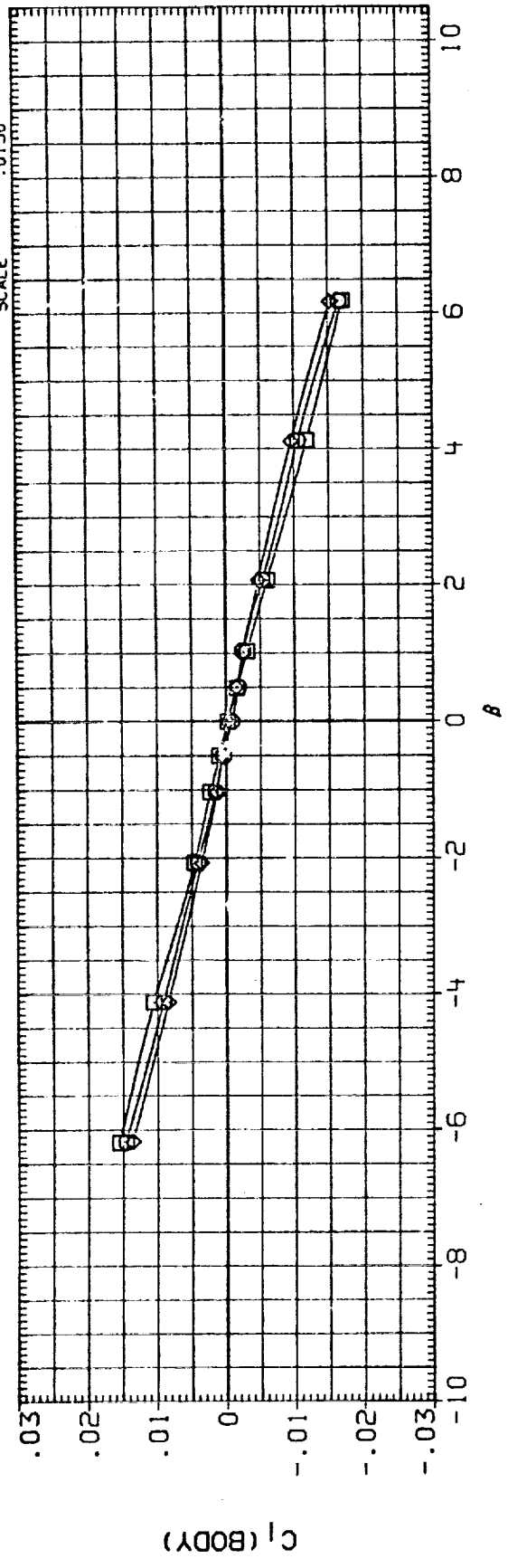


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = 1.05

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|-------|-----------------------|
| (RUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.6000 INCHES |
| (RUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

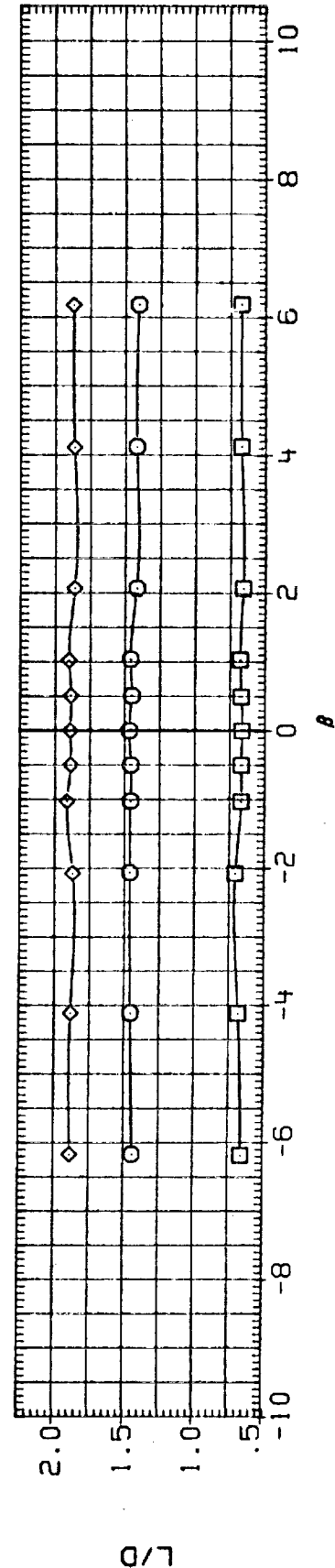
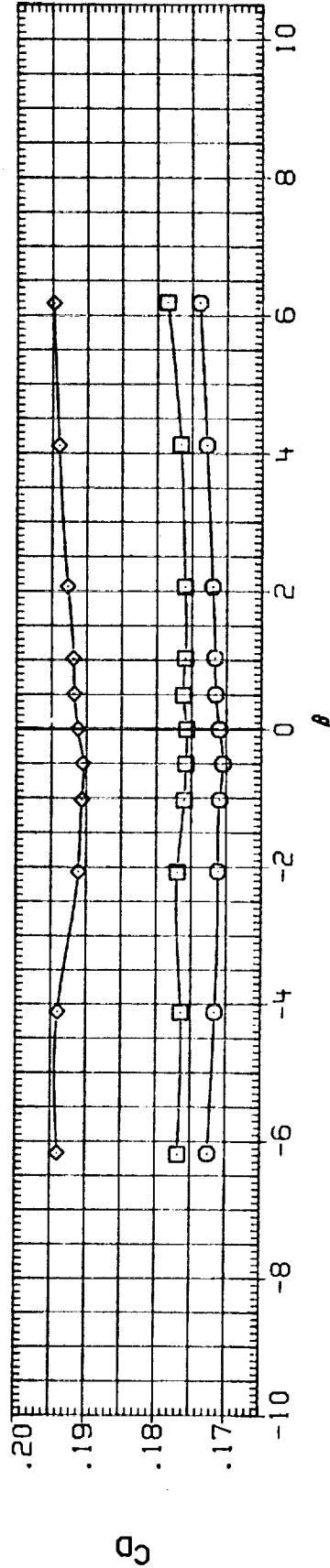
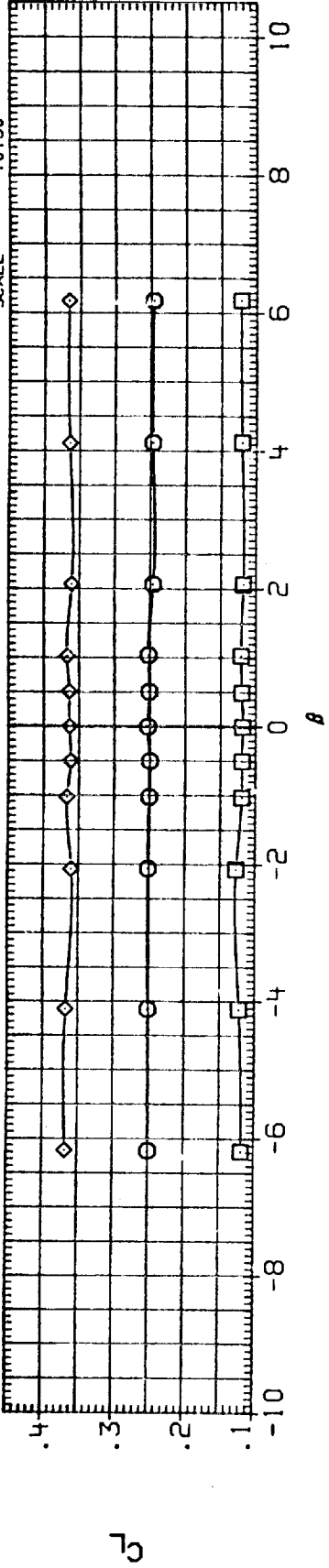


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = 1.05

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|-------|-----------------------|
| (CUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (CUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.500 | LREF 474.8000 INCHES |
| (CUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

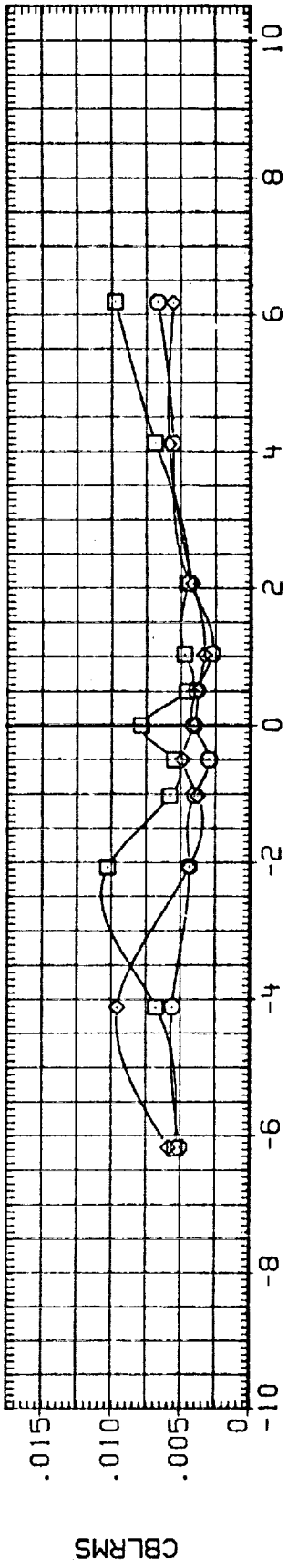
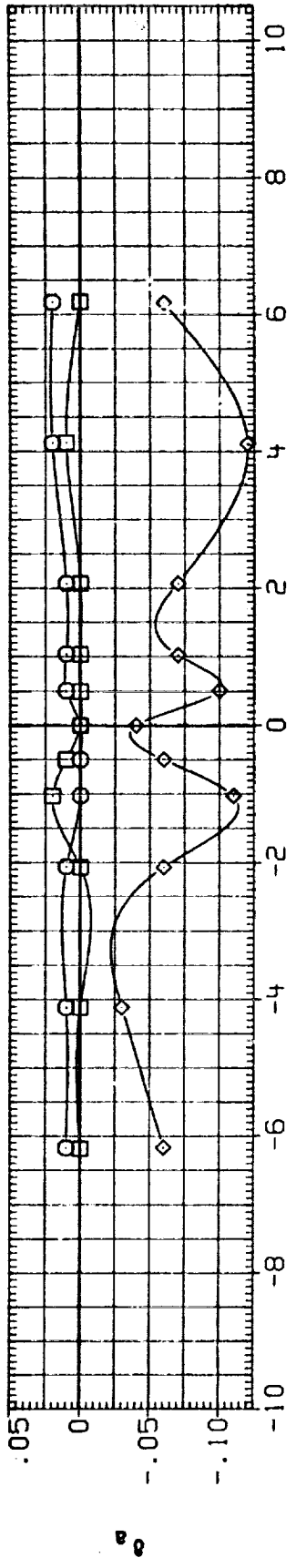
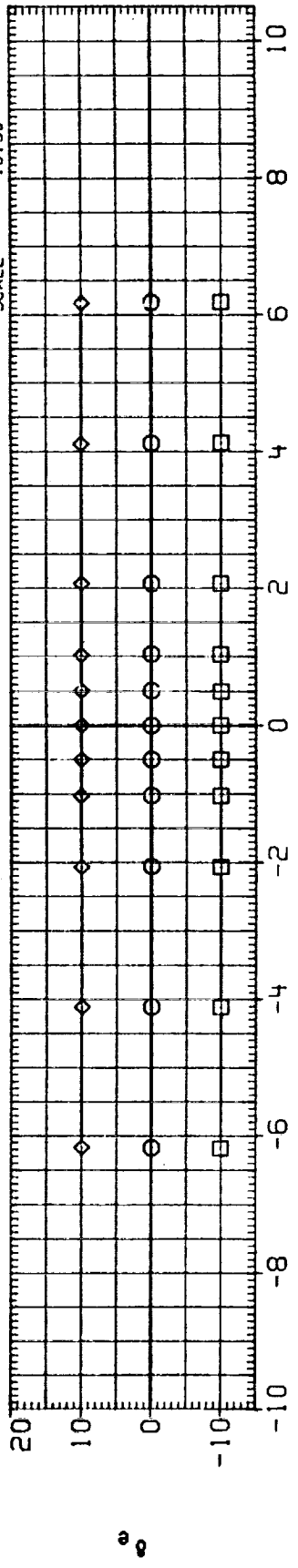


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = 1.05

| | | | | | | |
|------------------------|--|---------------|---------------|--------------|-------------|------------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK072) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.000 | SREF 2690.0000 SO.FT. |
| (RUK060) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.000 | LREF 474.8000 INCHES |
| (RUK089) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

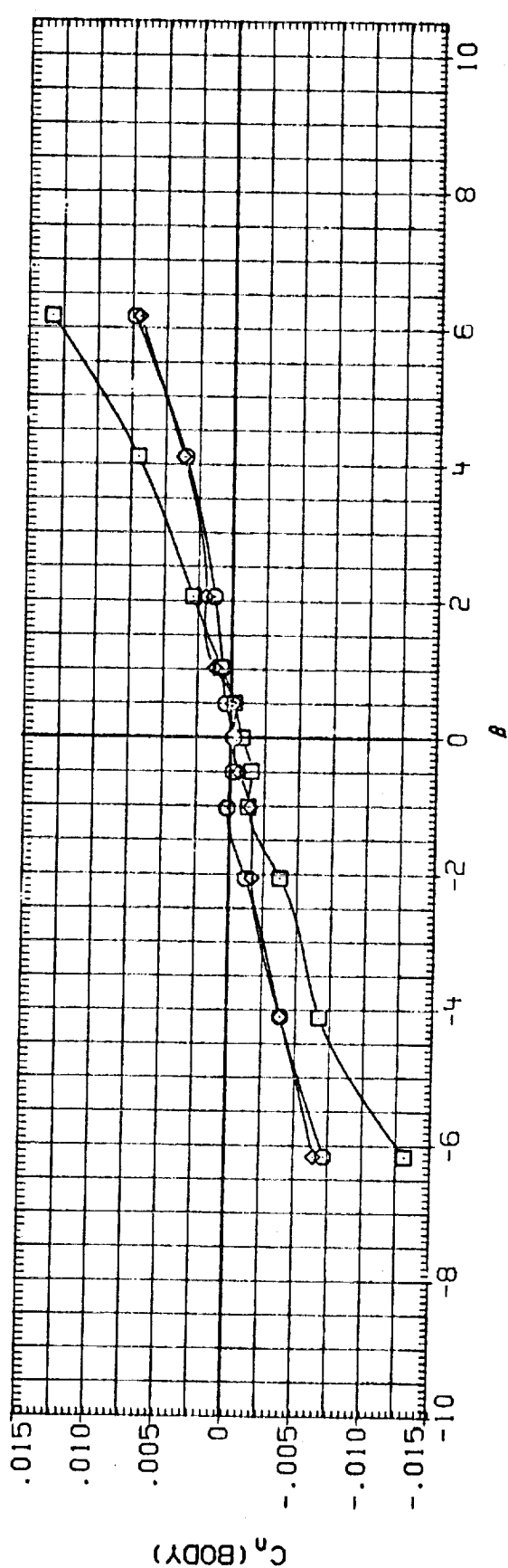
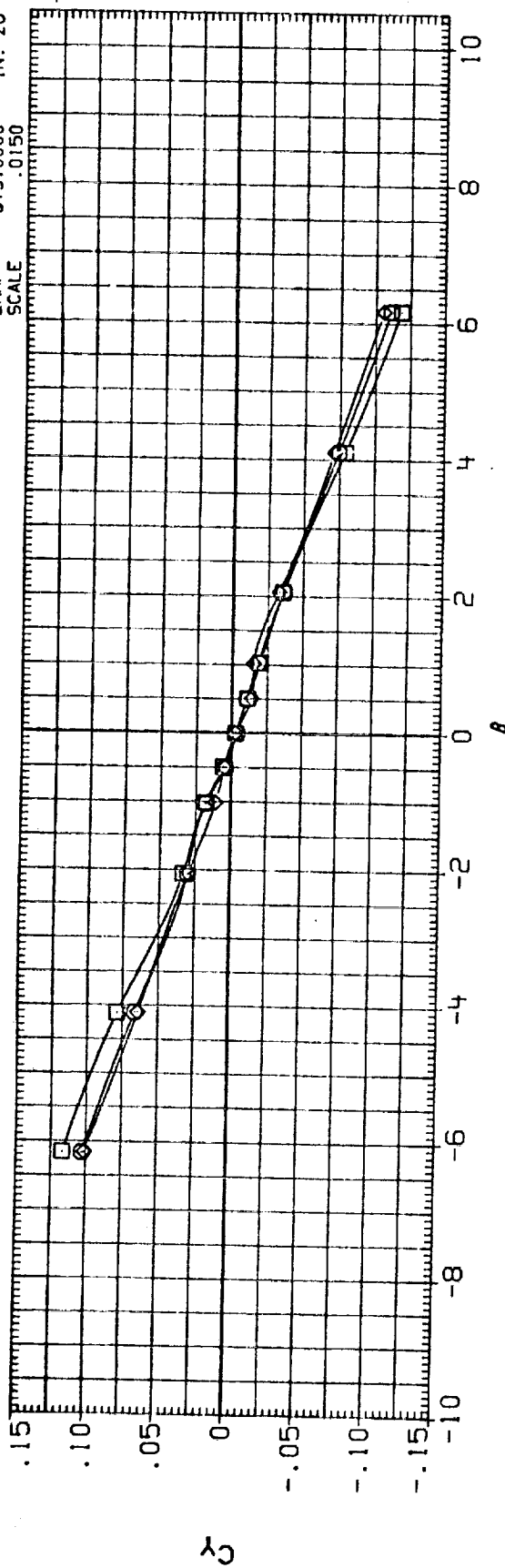


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK072) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK060) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK089) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AIRLON ALPHA RW/L

.000 .000 5.000 4.000

-10.000 .000 5.000 4.000

10.000 .000 5.000 4.000

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

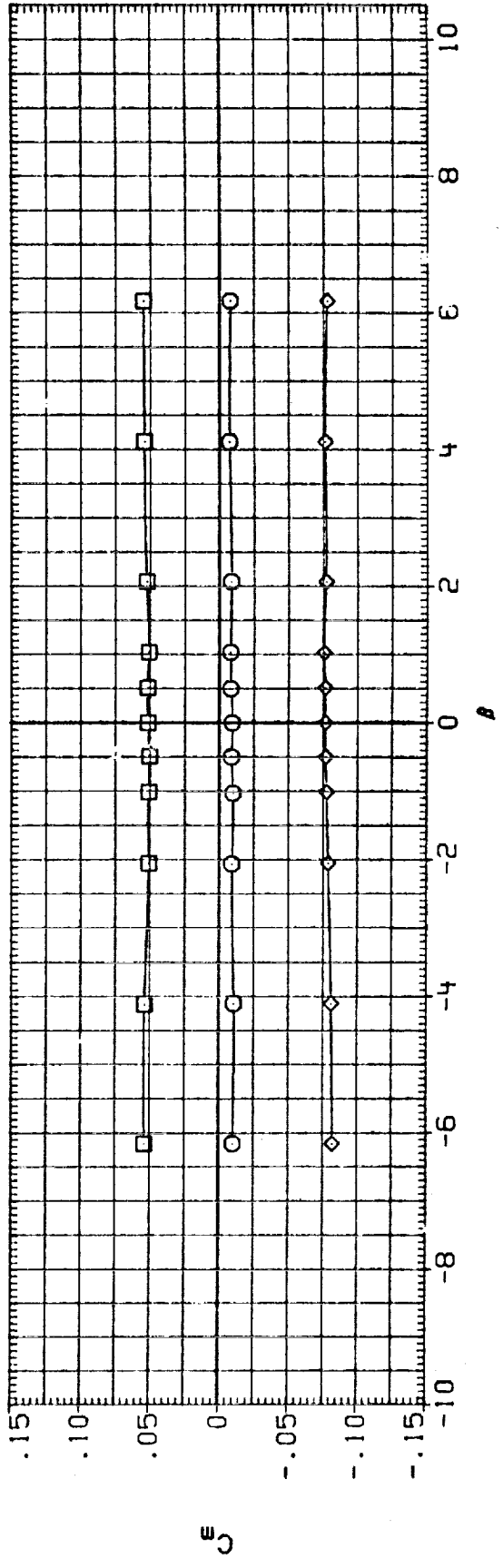
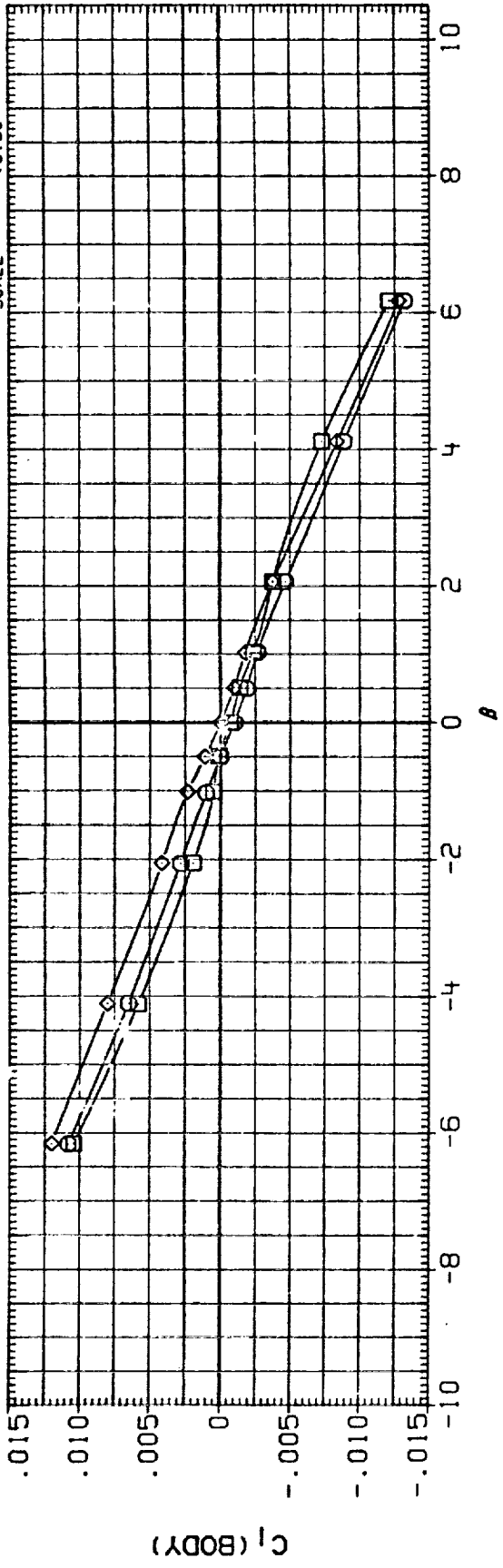


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK072) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK060) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK089) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILTRON ALPHA RN/L

.000 .000 5.000 4.000

-10.000 .000 5.000 4.000

10.000 .000 5.000 4.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

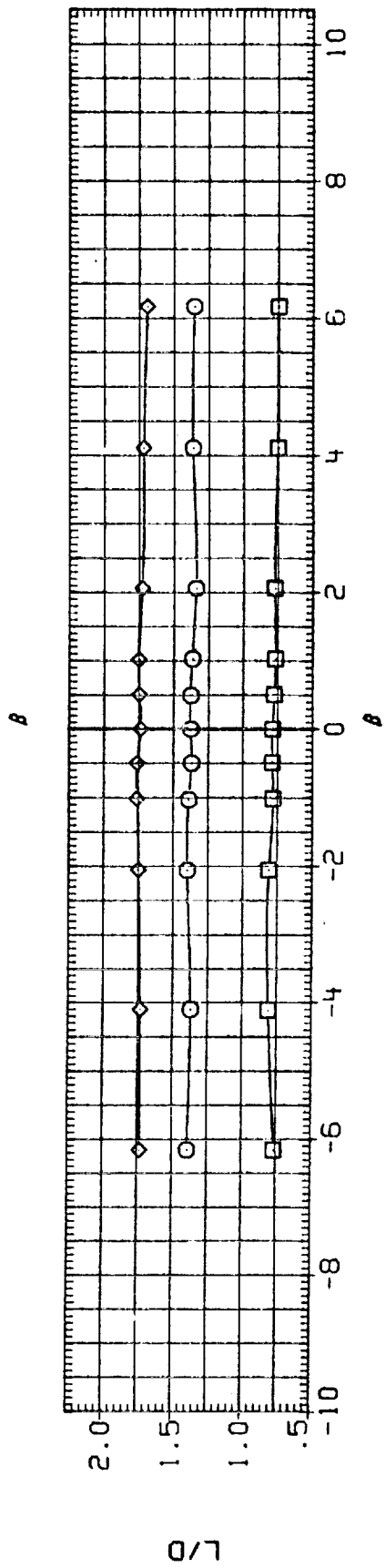
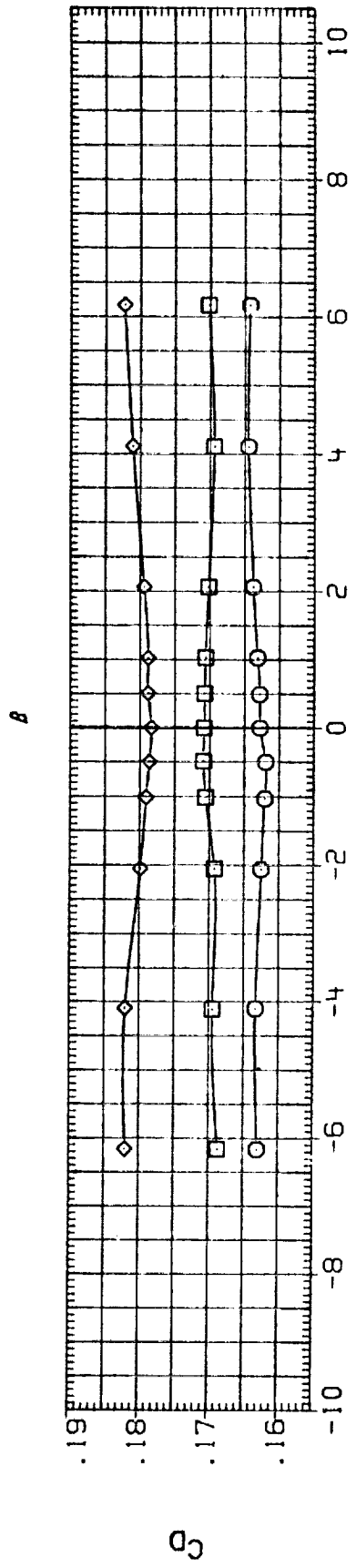
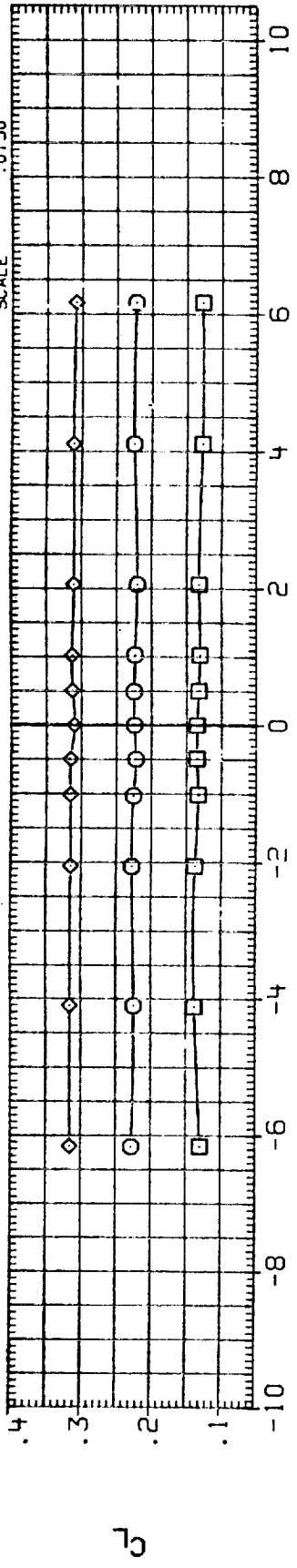


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = 1.20

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLON | ALPHA | RN/VL | REFERENCE INFORMATION |
|-----------------|--|---------|--------|-------|-------|-----------------------|
| (CUK072) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 5.000 | 4.000 | SREF 2690.0000 SQ.FT. |
| (CUK060) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 5.000 | 4.000 | LREF 474.8000 INCHES |
| (CUK089) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 5.000 | 4.000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

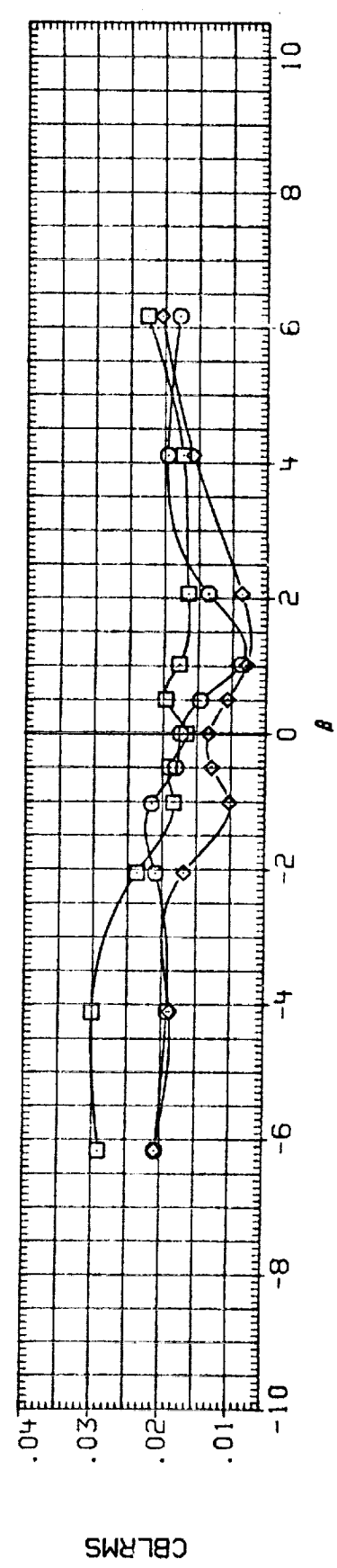
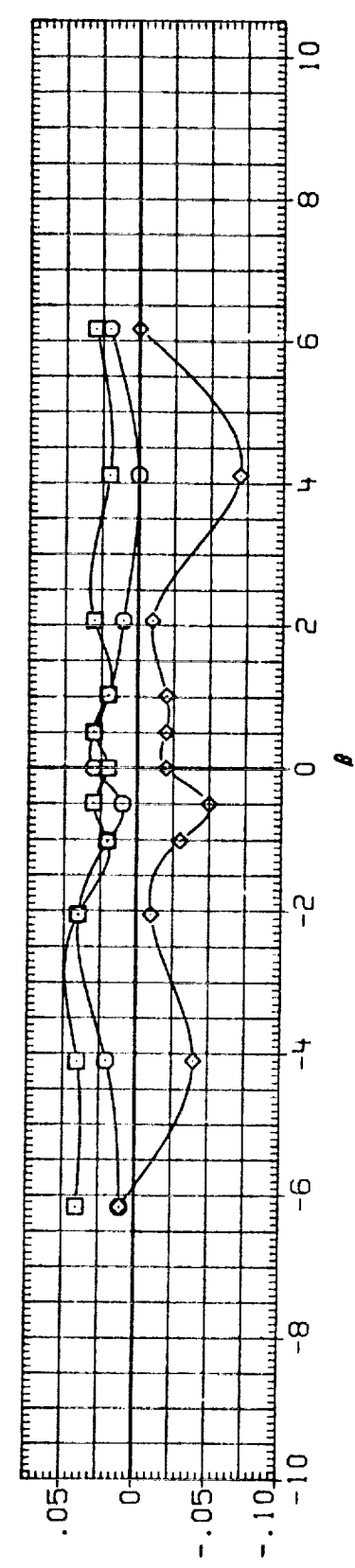
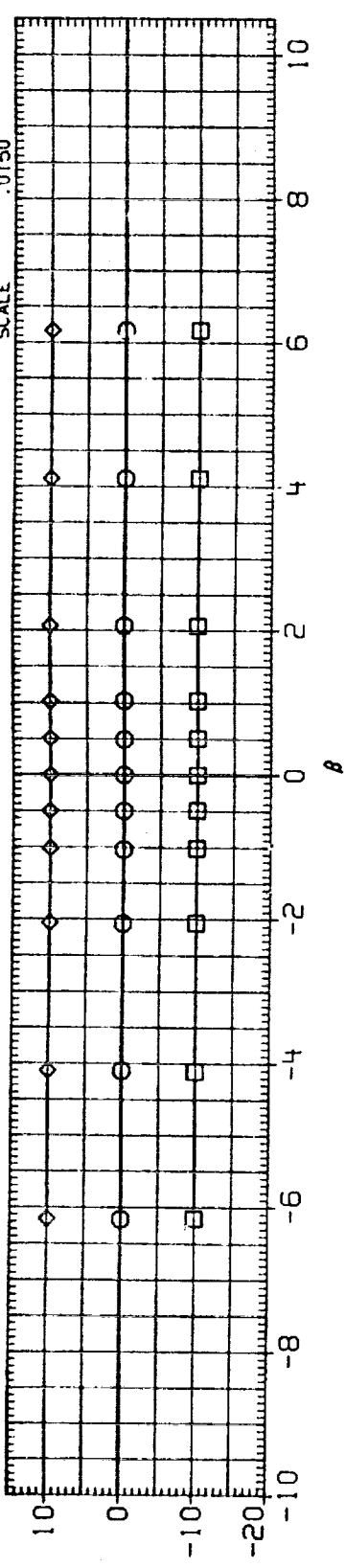


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = 1.20

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|---------|--------|-------|-----------------------|
| (RUK074) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | YMRP 1076.7000 IN. XO |
| | | | | | | ZMRP .0000 IN. YO |
| | | | | | | SCALE .0150 |

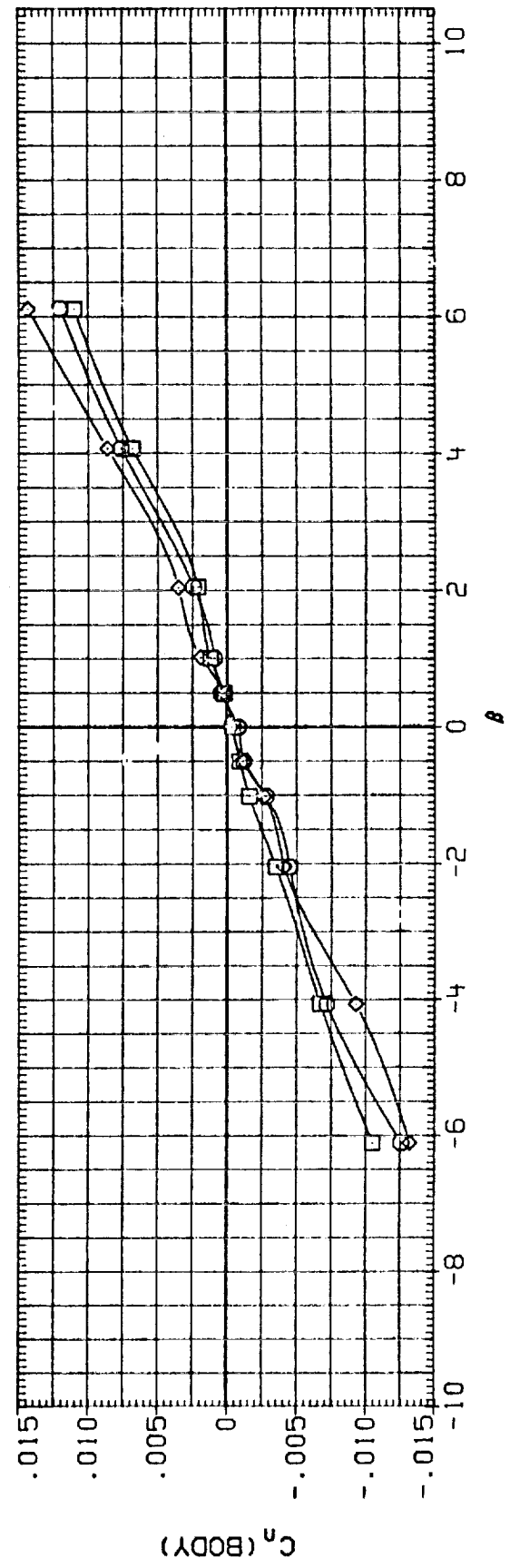
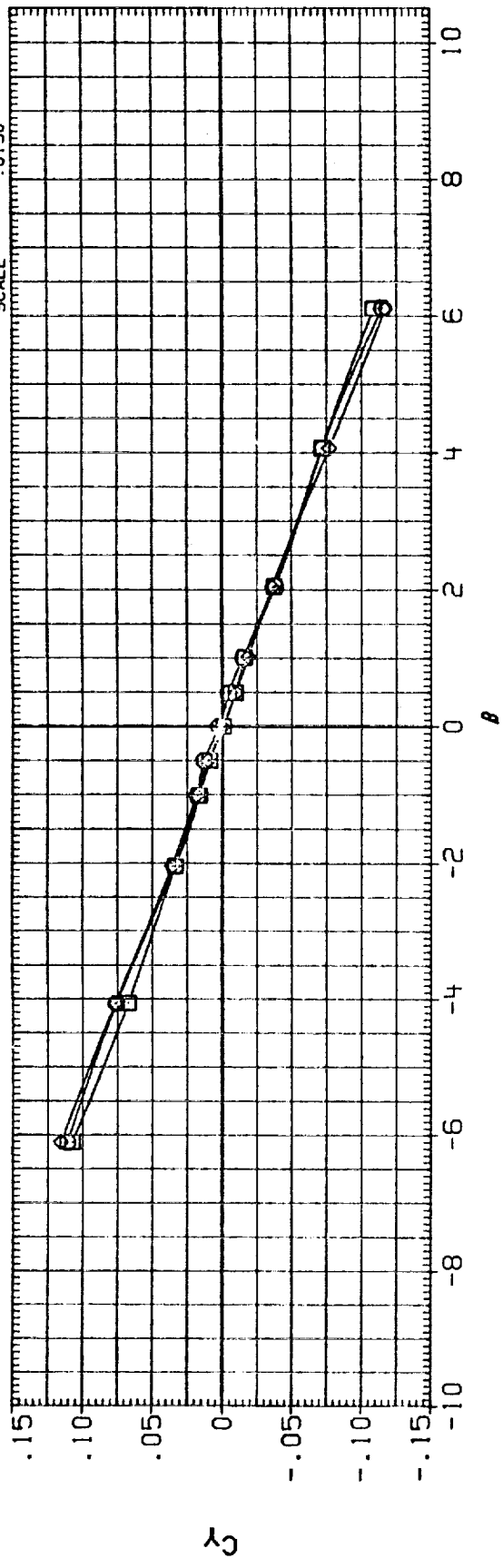


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

REFERENCE INFORMATION
 SQ. FT. 2690.0000
 INCHES 474.8000
 INCHES 936.6800
 IN. XO 1076.7000
 IN. YO .0000
 IN. ZO 375.0000
 SCALE .0150

RN/L 4.500
 ALPHA 10.000
 AILRON .000
 ELEVON .000
 -10.000
 10.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK074) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK061) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK091) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

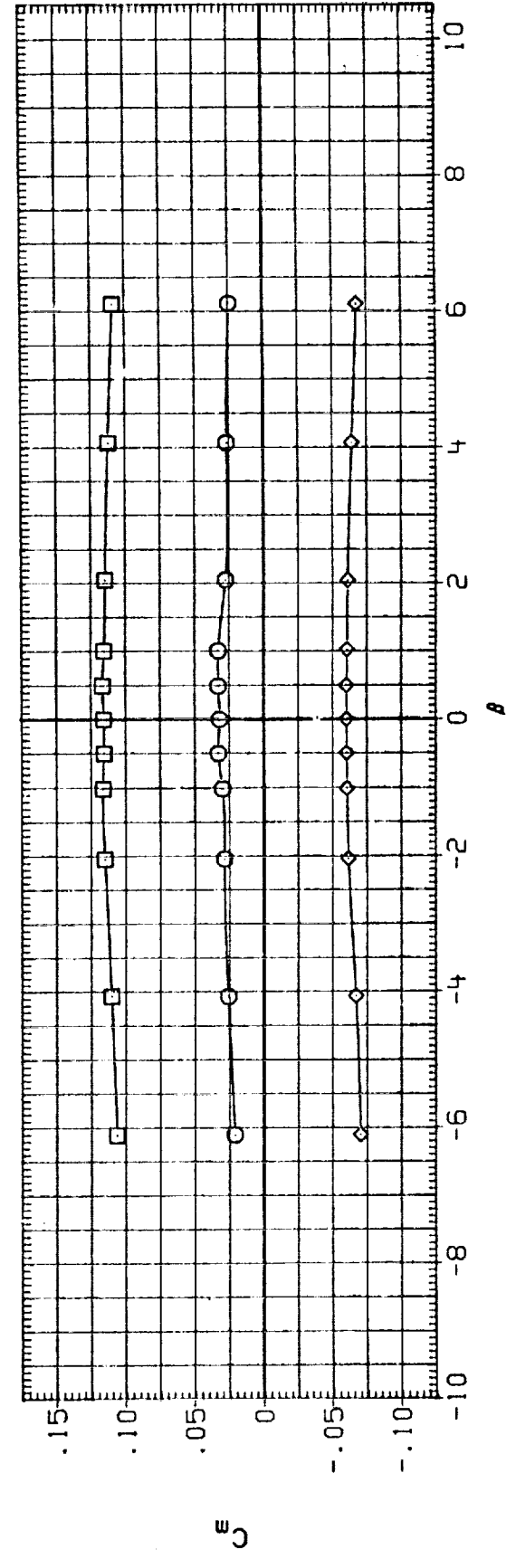
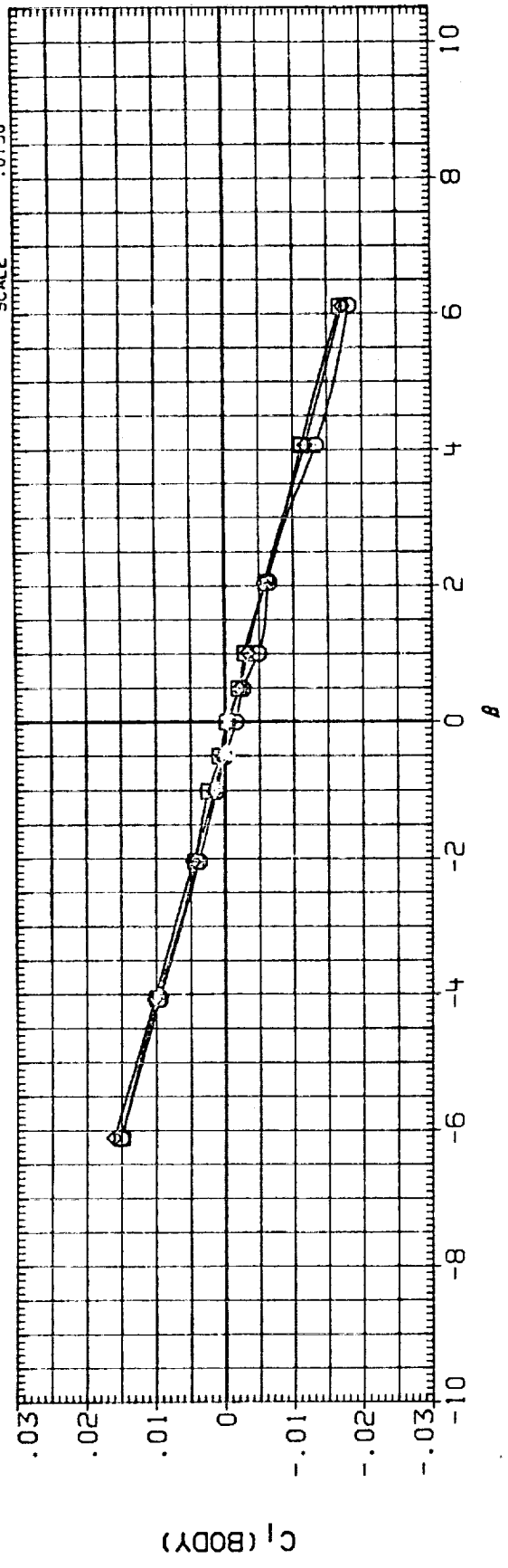


FIG. 21 EFFECT OF ELE'ON IN SIDESLIP, ALPHA = 10

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | ALPHA | RN/L | REFERENCE INFORMATION |
|----------|--------|--|---------|---------|--------|-------|-----------------------|
| (RUK074) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK061) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK091) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

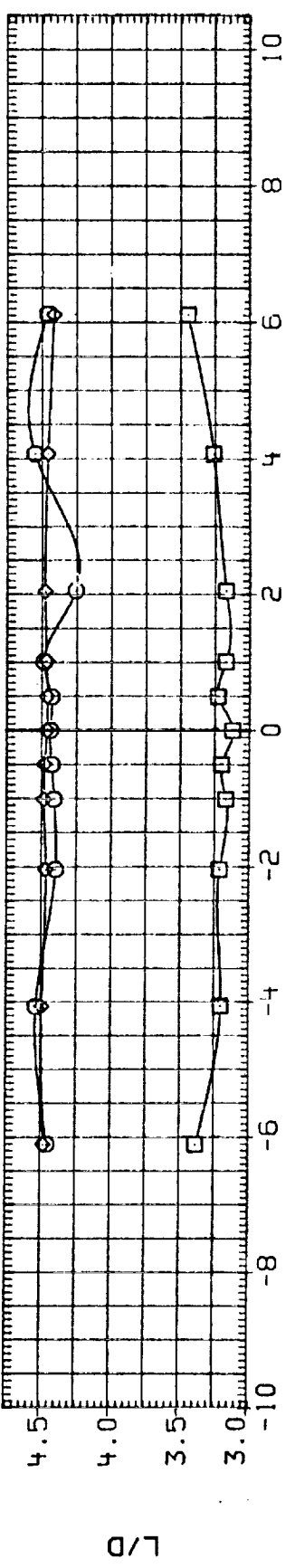
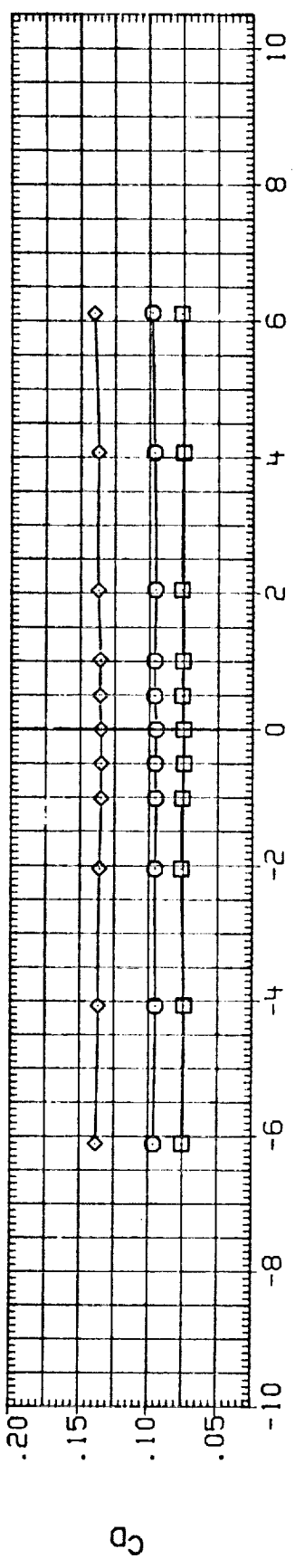
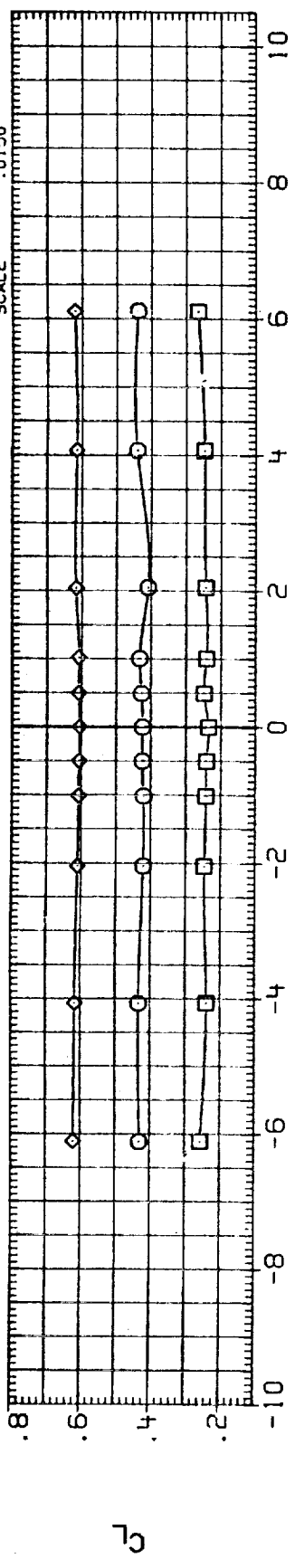


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .60

| | | | | | | |
|-----------------|--|---------|---------|--------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILIRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (CUK074) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.500 | SREF 2690.0000 SO.FT. |
| (CUK061) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.500 | LREF 474.8000 INCHES |
| (CUK091) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

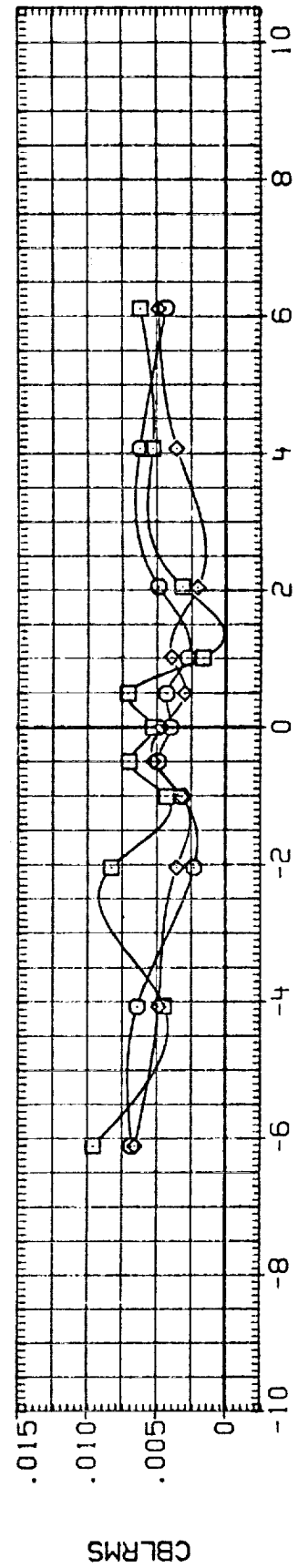
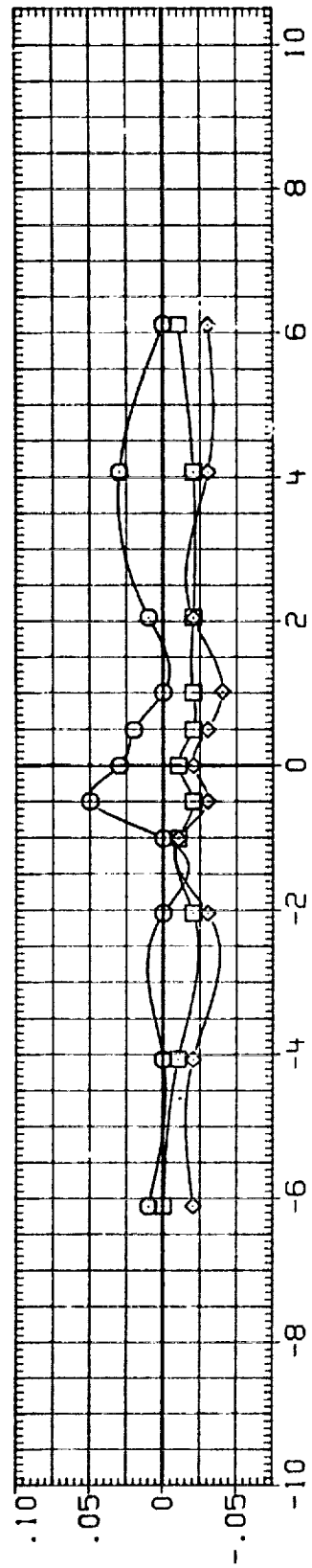
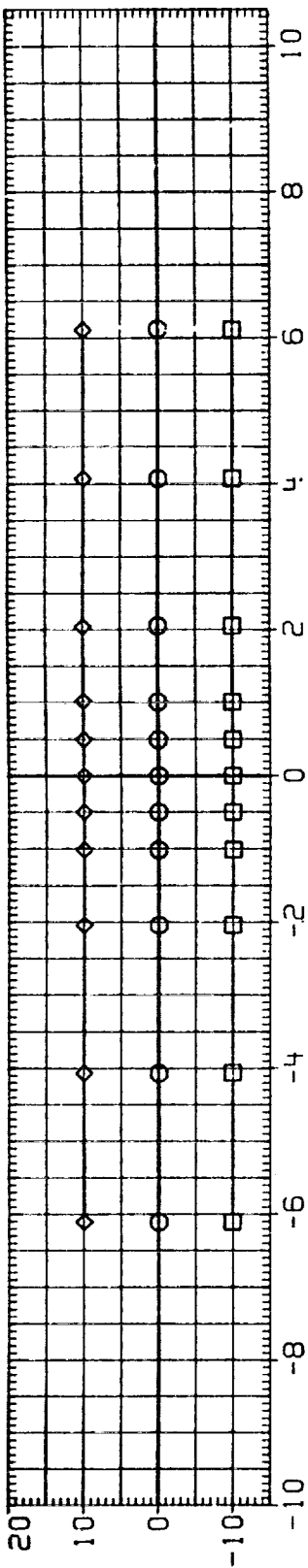


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILLON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| (RUK074) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE 0.150 |

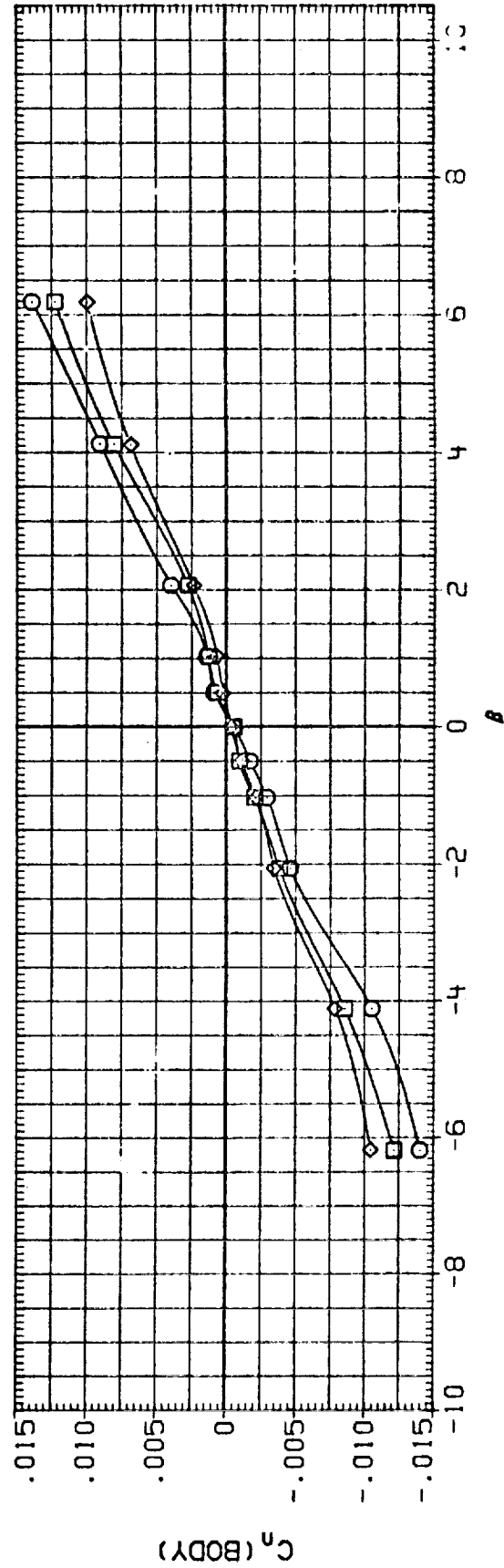
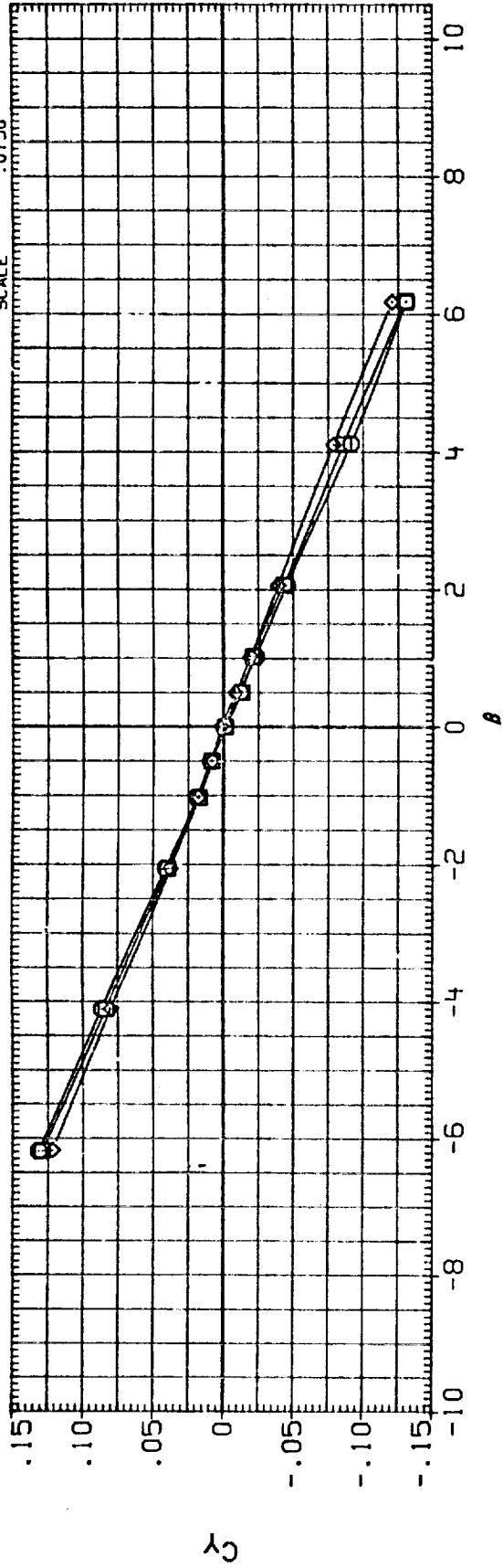


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK074) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK061) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK091) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AIRLON ALPHA RN/L

.000 .000 10.000 4.500

-10.000 .000 10.000 4.500

10.000 .000 10.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

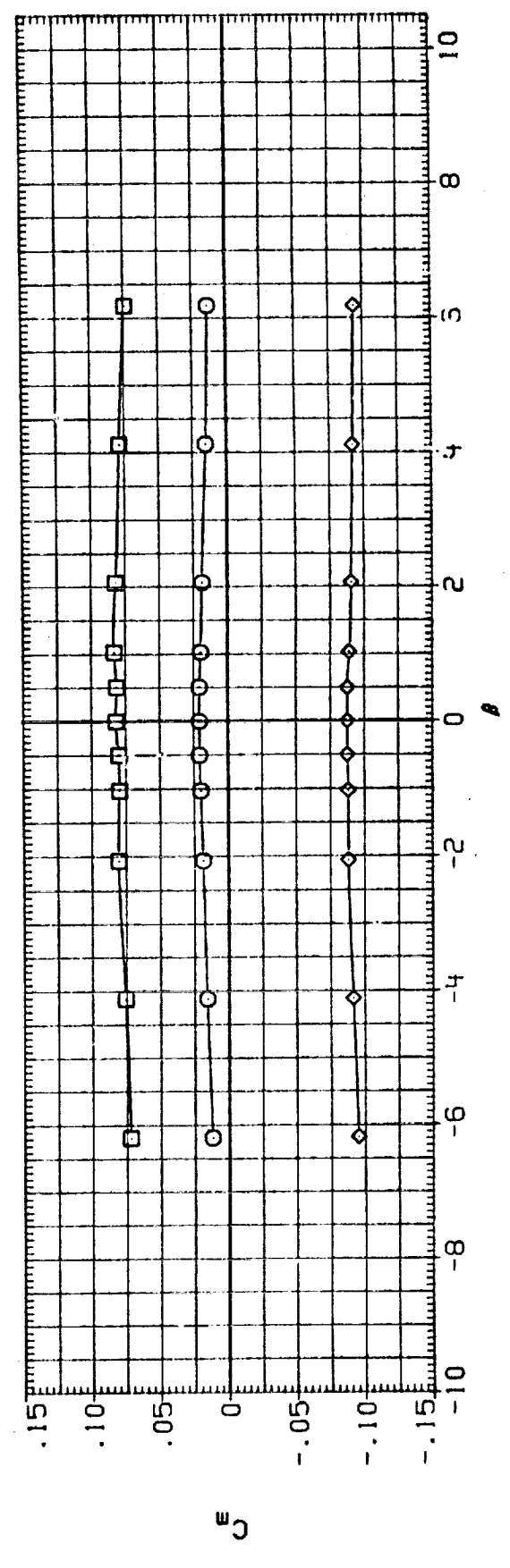
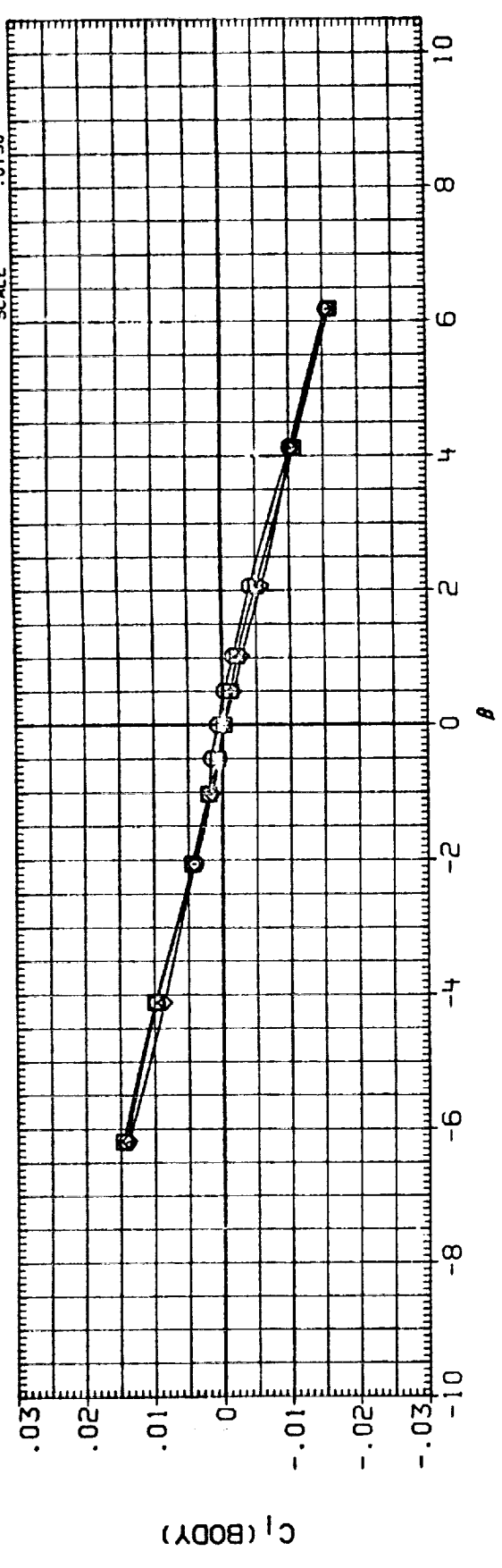


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK074) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK061) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK091) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RV/L
 .000 .000 10.000 4.500
 -10.000 .000 10.000 4.500
 10.000 .000 10.000 4.500

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

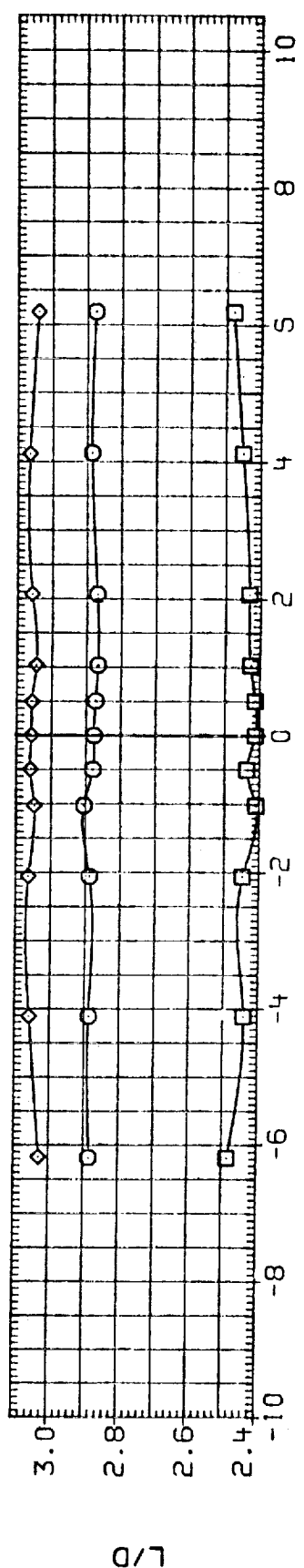
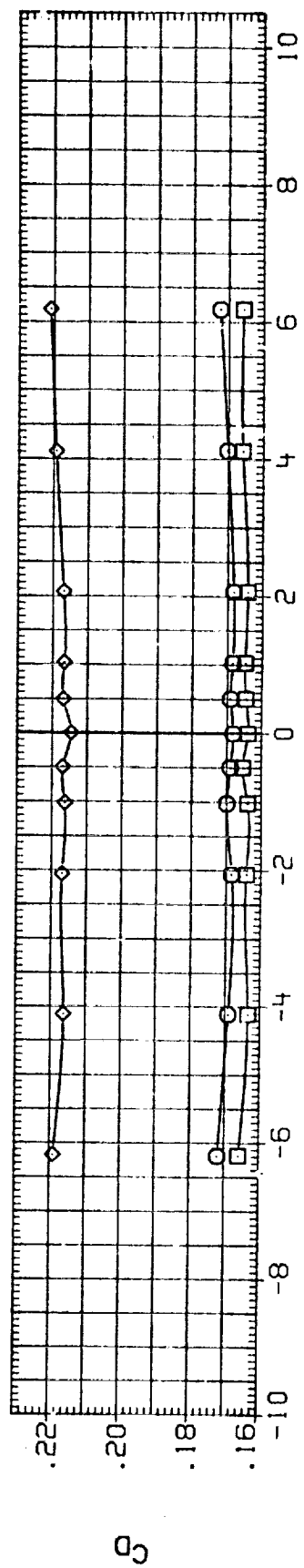
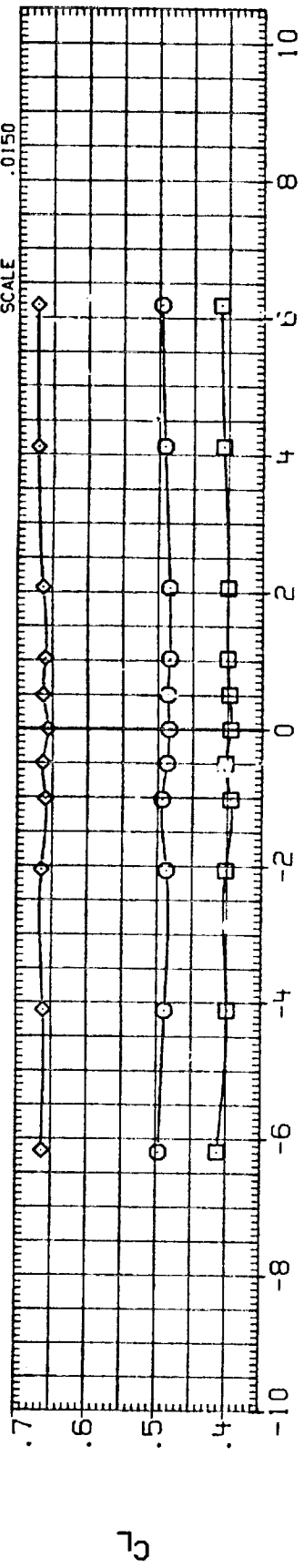


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK074) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(CUK061) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(CUK091) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RN/L

.000 .000 10.000 4.500

-10.000 .000 10.000 4.500

10.000 .000 10.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

YMRP 1076.7000 IN. X0

ZMRP .0000 IN. Y0

SCALE .0150 IN. Z0

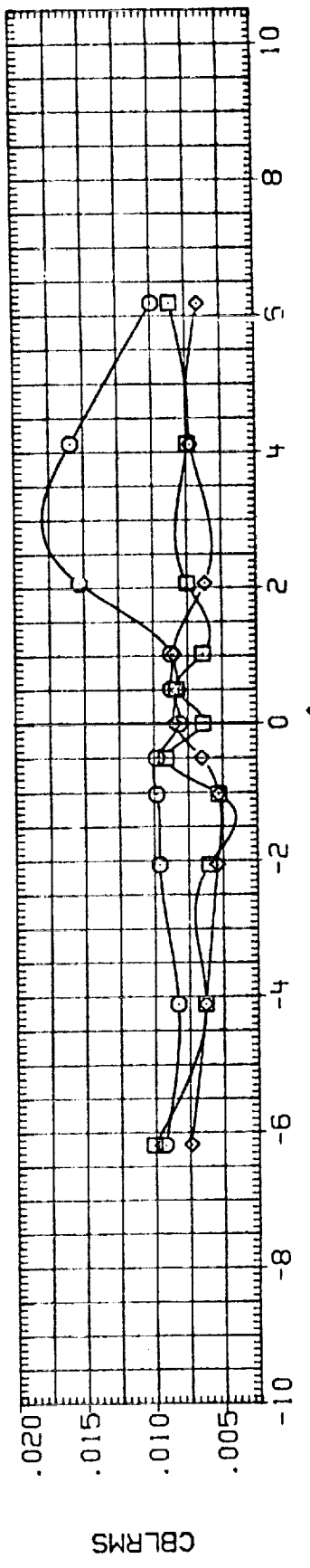
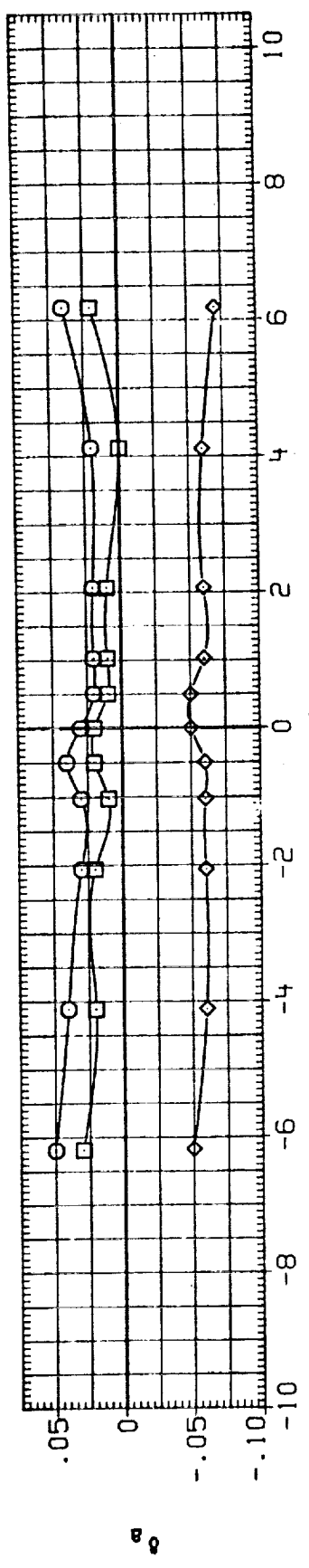
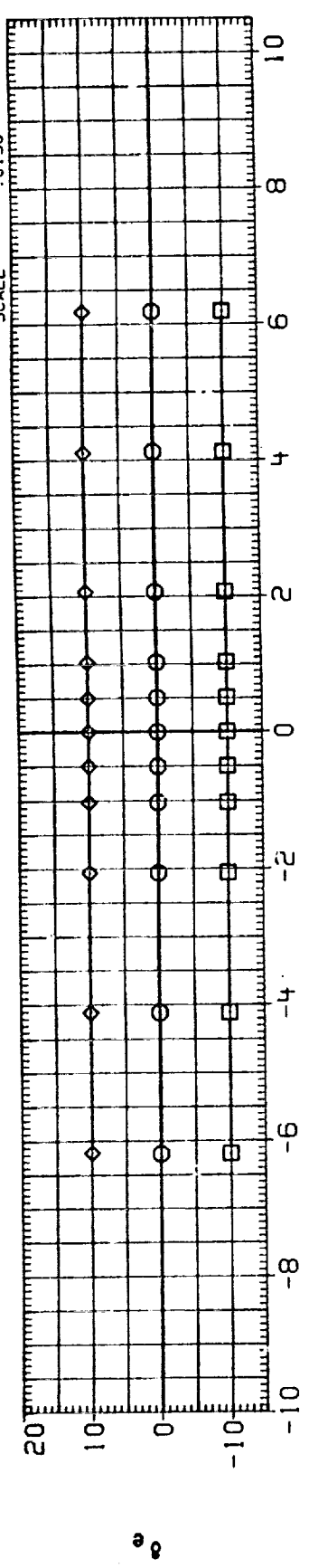


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION ELEVON AILRON ALPHA RN/L REFERENCE INFORMATION

| | | | | | | | | |
|----------|--|---------|------|--------|-------|-------|-----------|---------|
| (RUK074) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.500 | SREF | 2690.0000 | SQ. FT. |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.500 | LREF | 474.8000 | INCHES |
| (RUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.500 | BREF | 936.6800 | INCHES |
| | | | | | | XMRP | 1076.7000 | IN. XO |
| | | | | | | YMRP | .0000 | IN. YO |
| | | | | | | ZMRP | 375.0000 | IN. ZO |
| | | | | | | SCALE | .0150 | |

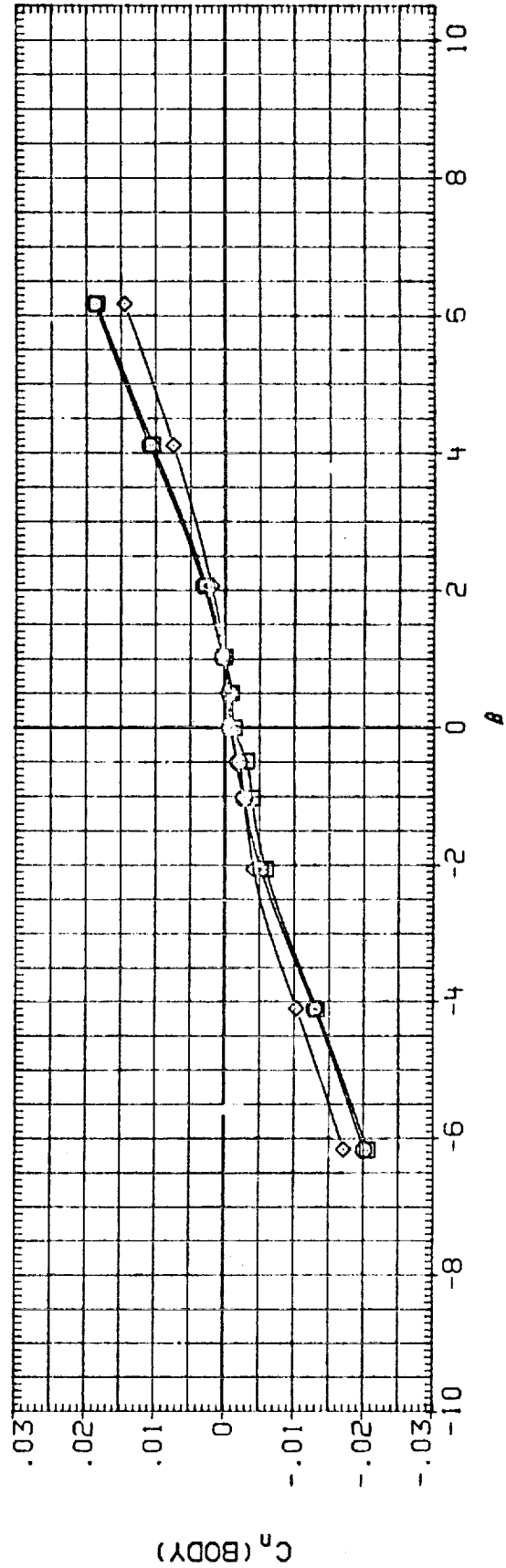
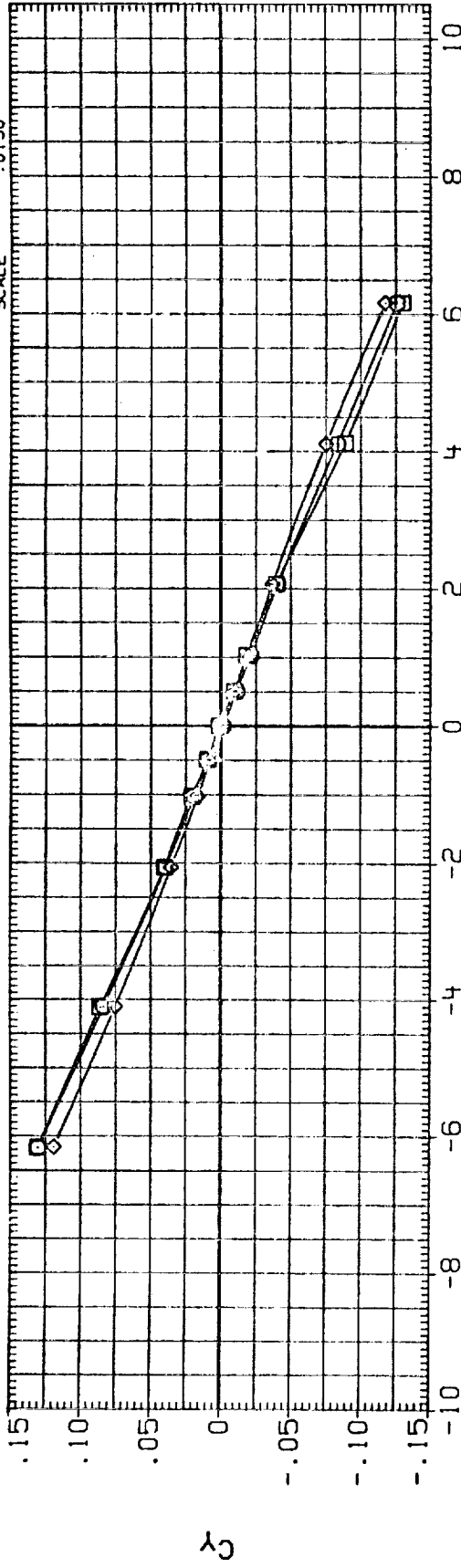


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK074) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK061) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK091) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AIRLON ALPHA RW/L

.000 .000 10.000 4.500

-10.000 .000 10.000 4.500

10.000 .000 10.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.8600 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

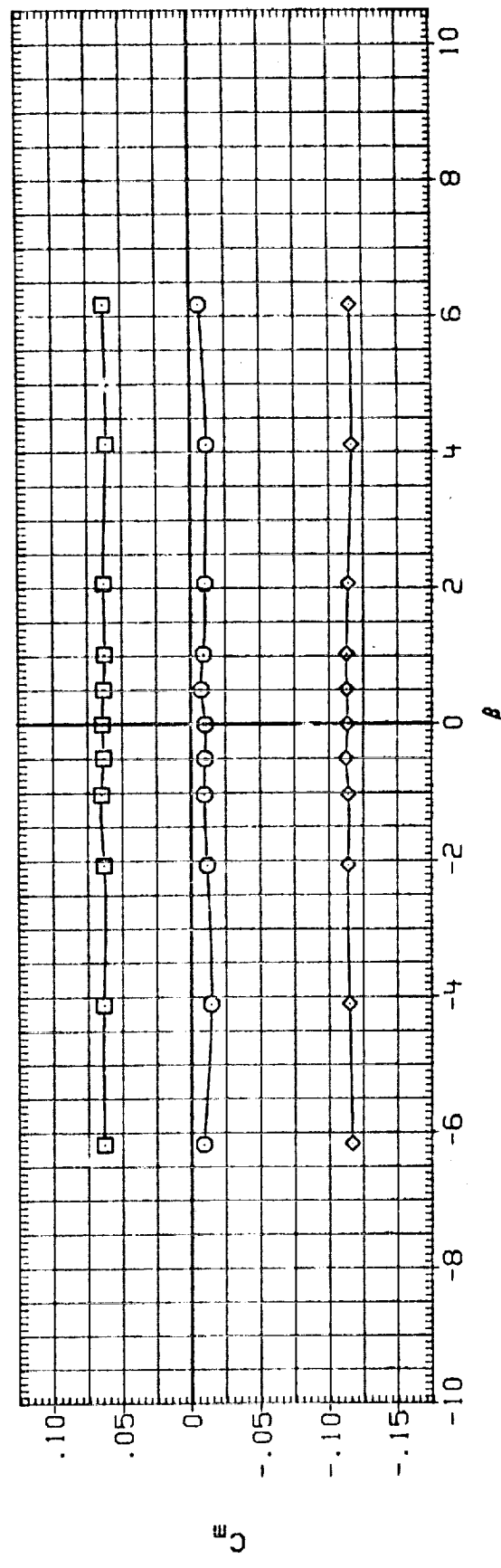
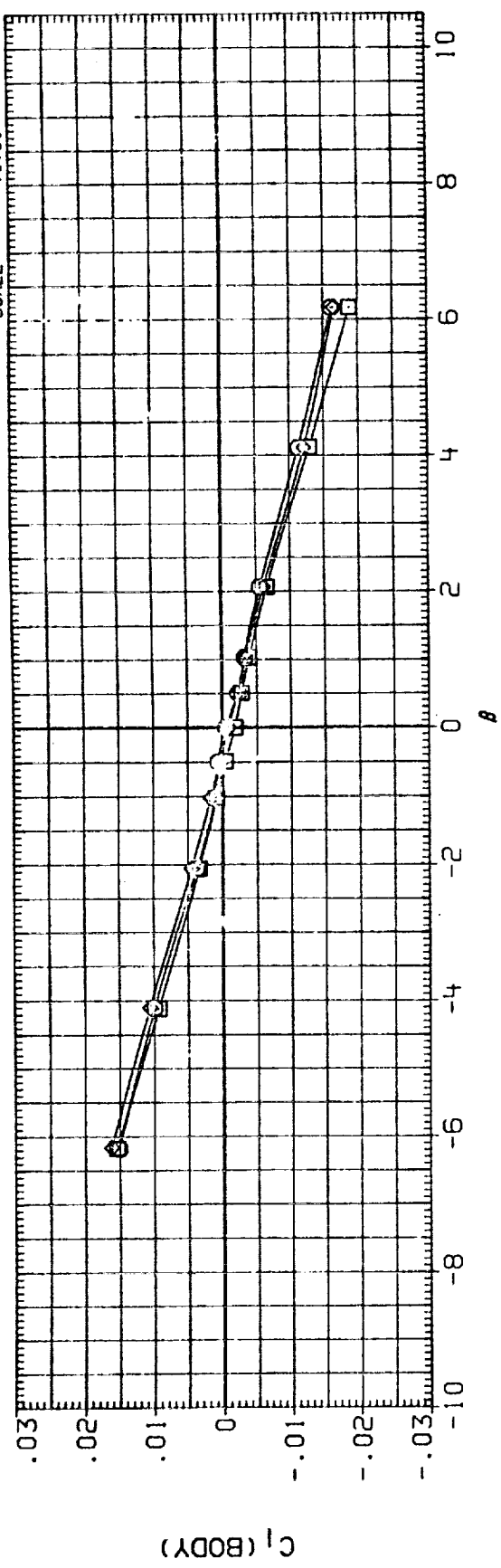


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .95

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|---------|--------|-------|-----------------------|
| (RUK074) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | YMRP 1076.7000 IN. XO |
| | | | | | | ZMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

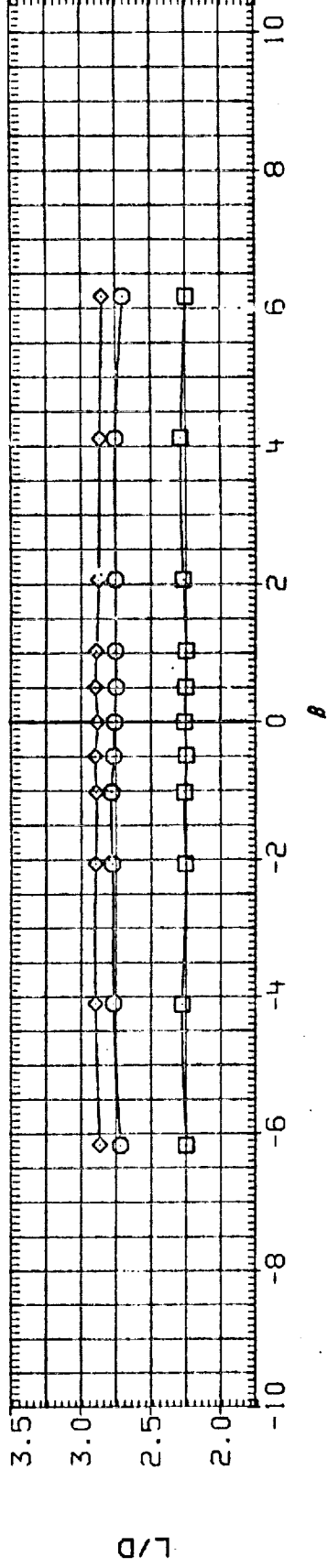
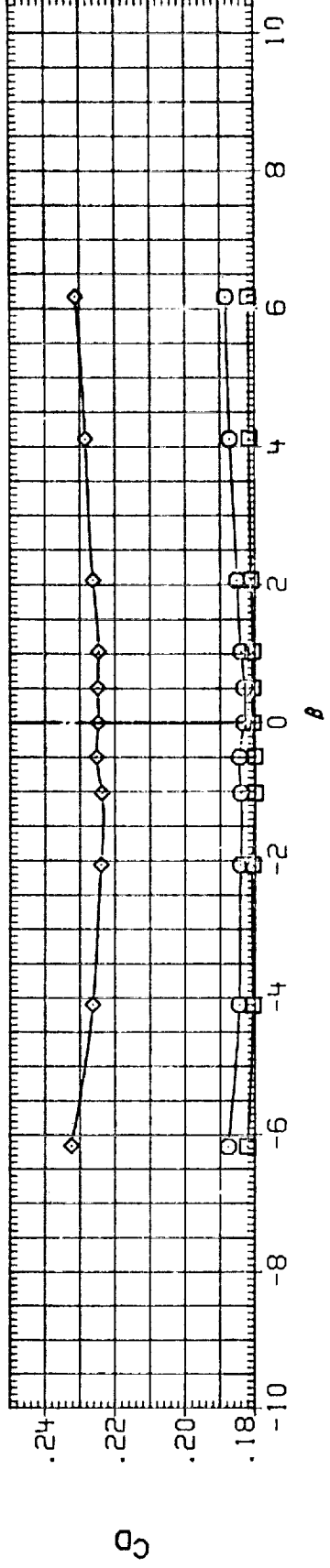
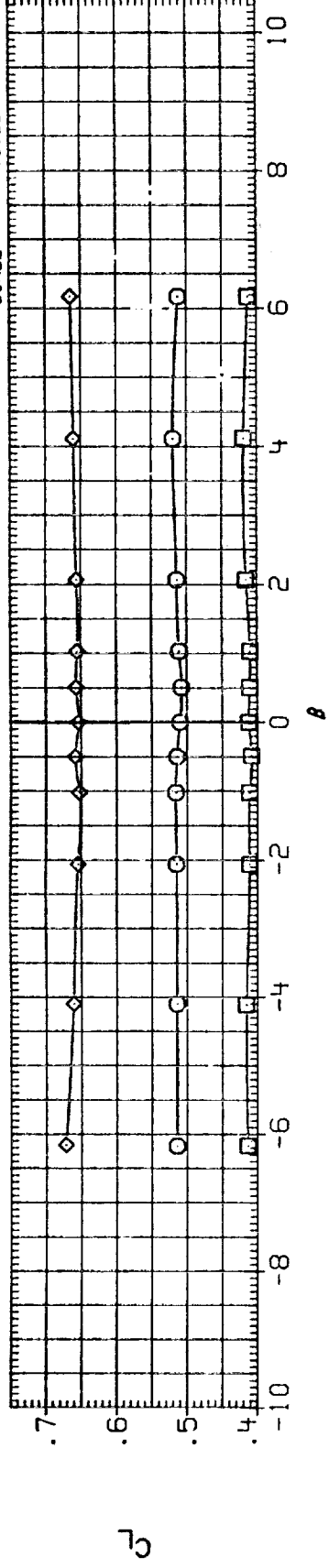


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .95

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|---------|--------|-------|-----------------------|
| (CUK074) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (CUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.500 | LREF 474.8000 INCHES |
| (CUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

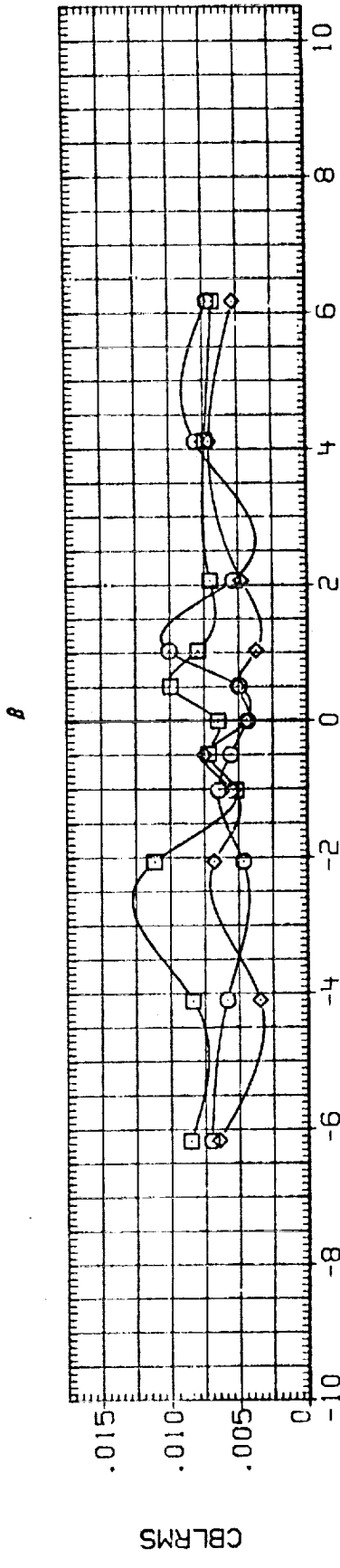
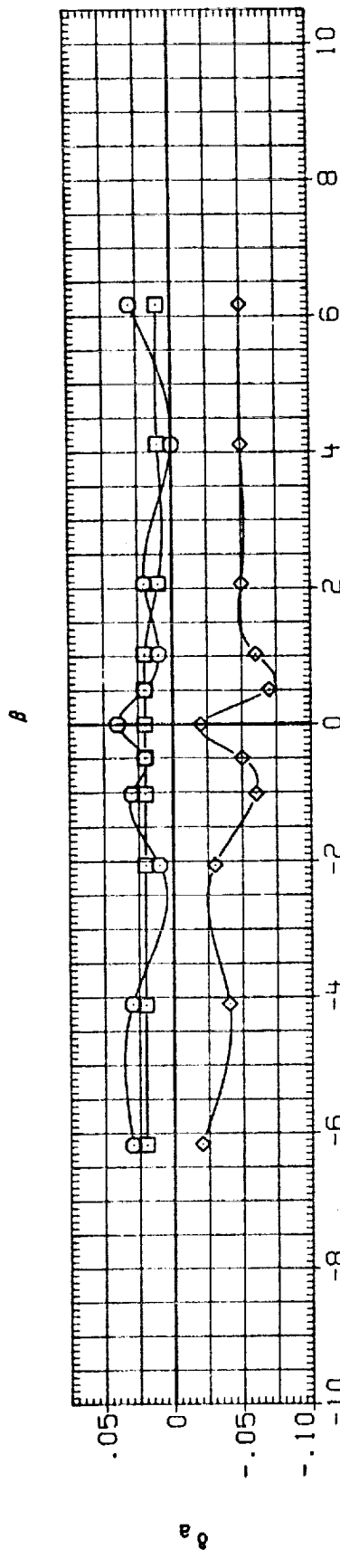
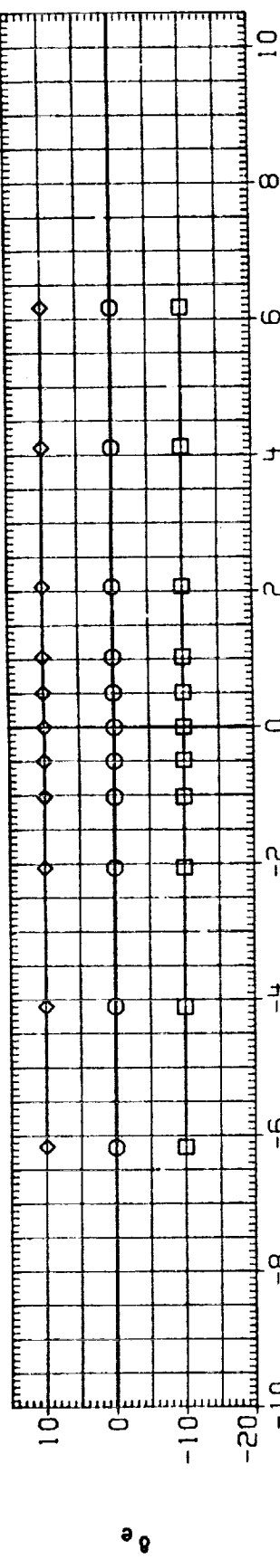


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK074) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK061) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK091) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RN/L

.000 .000 10.000 4.500

-10.000 .000 10.000 4.500

10.000 .000 10.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

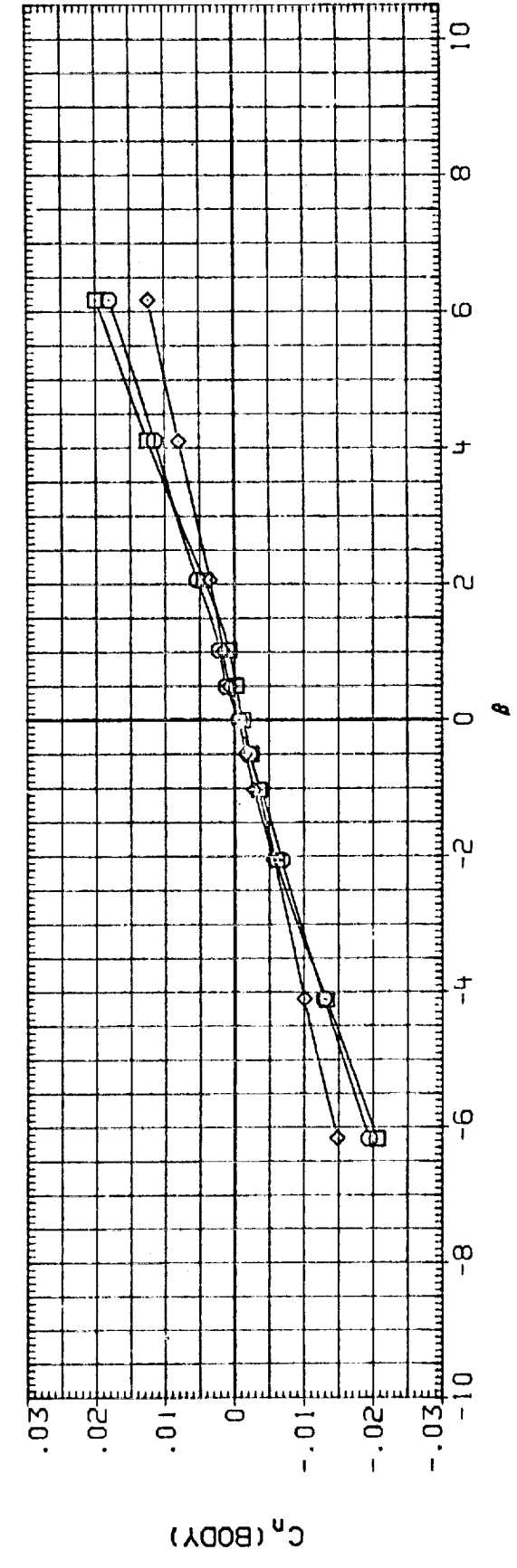
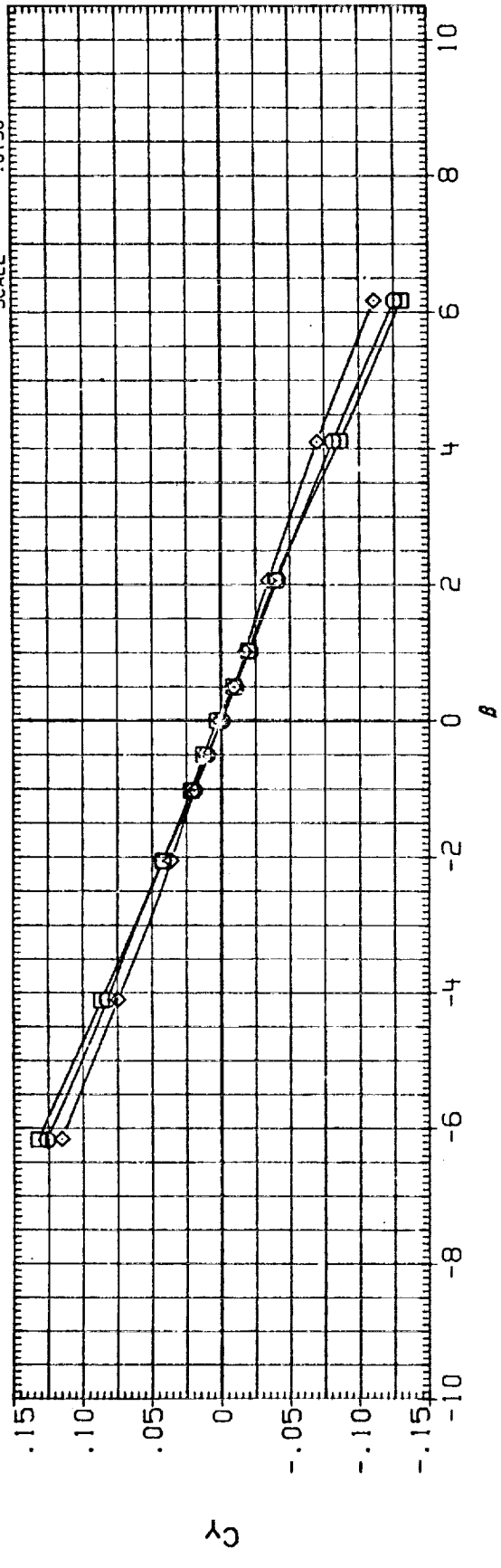


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK074) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK061) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK091) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RN/L

.000 .000 10.000 4.500

-10.000 .002 10.000 4.500

10.000 .000 10.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

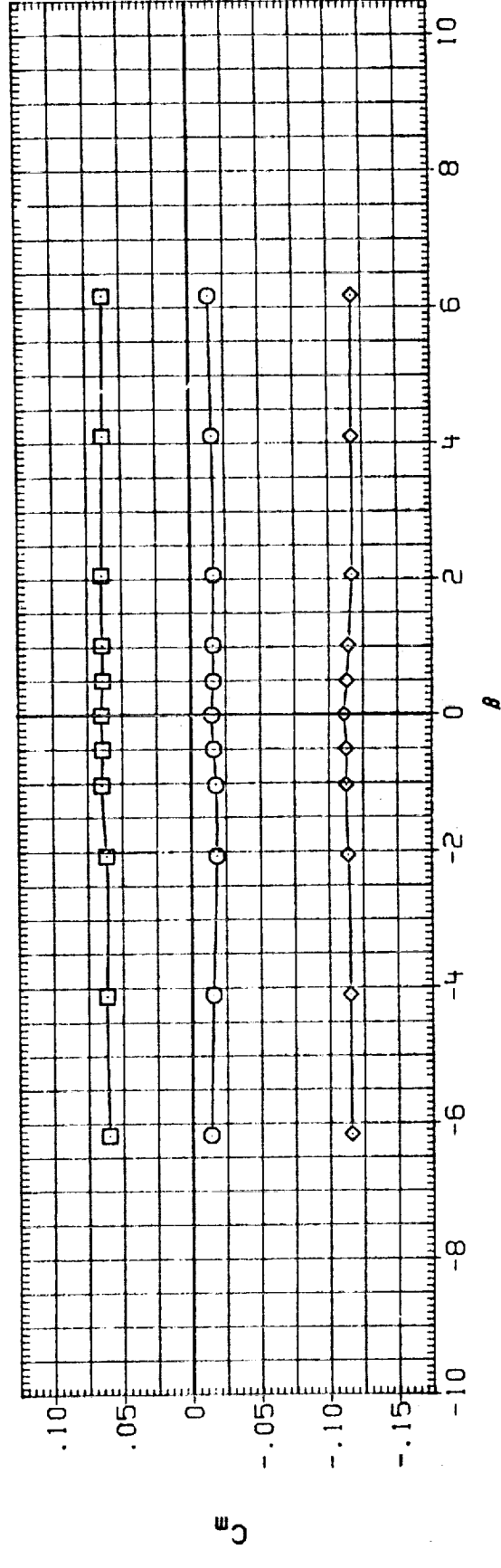
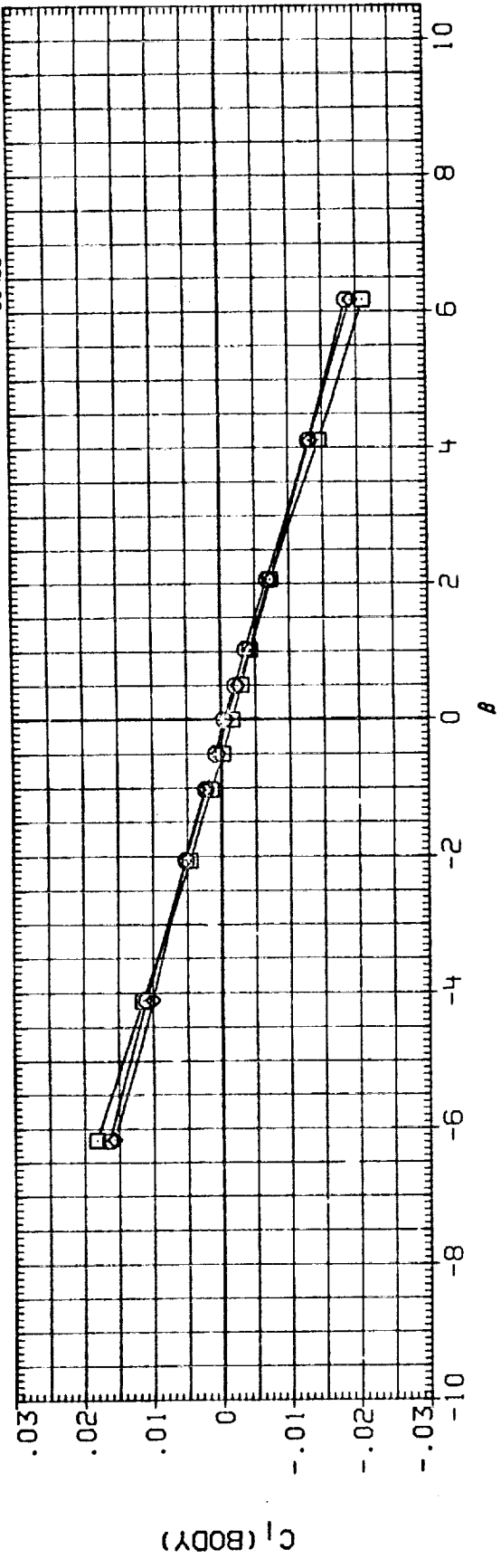


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .98

| | | | | | | |
|-----------------|--|---------|---------|--------|-------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK074) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.500 | SREF 2690.0000 SQ. FT. |
| (RUK081) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

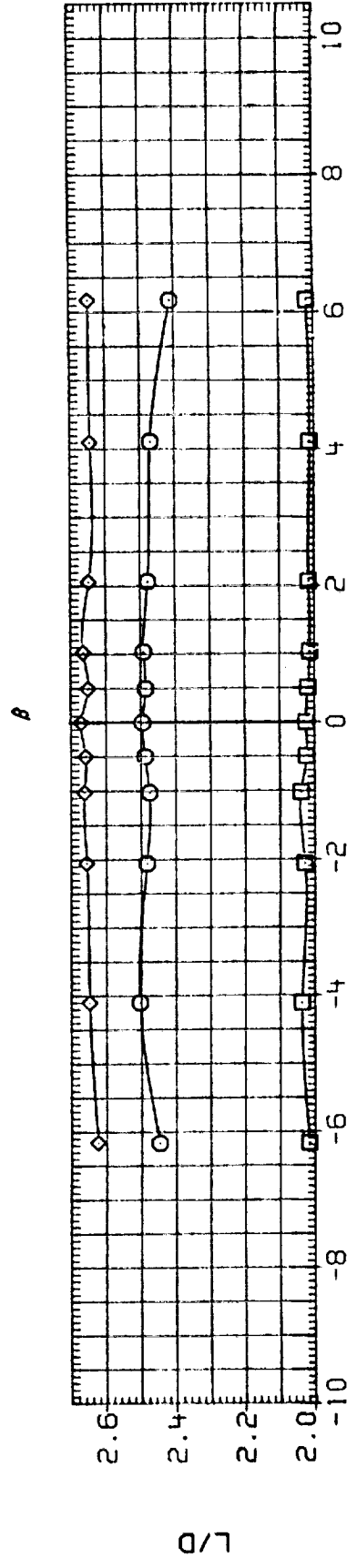
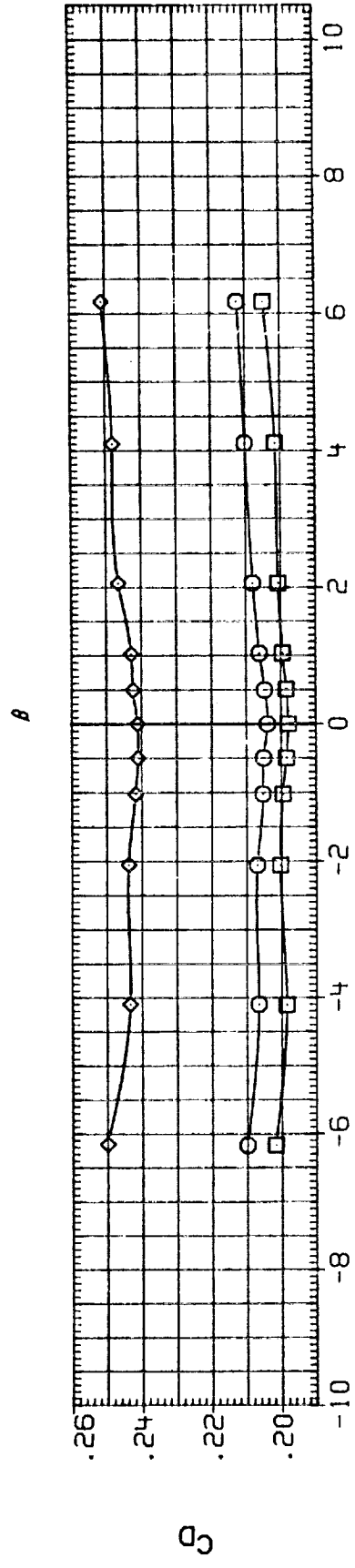
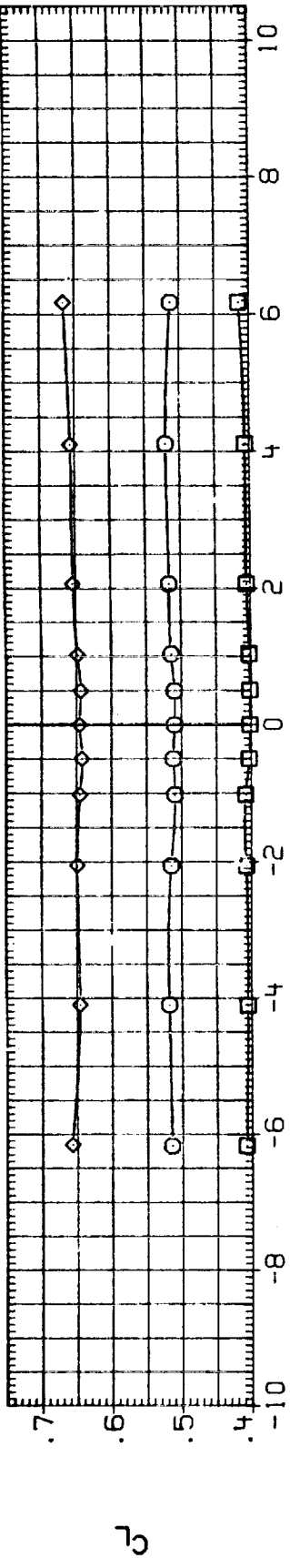


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| (CUK074) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (CUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.500 | LREF 474.8000 INCHES |
| (CUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XPRP 1076.7000 IN. XO |
| | | | | | | YPRP .0000 IN. YO |
| | | | | | | ZPRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

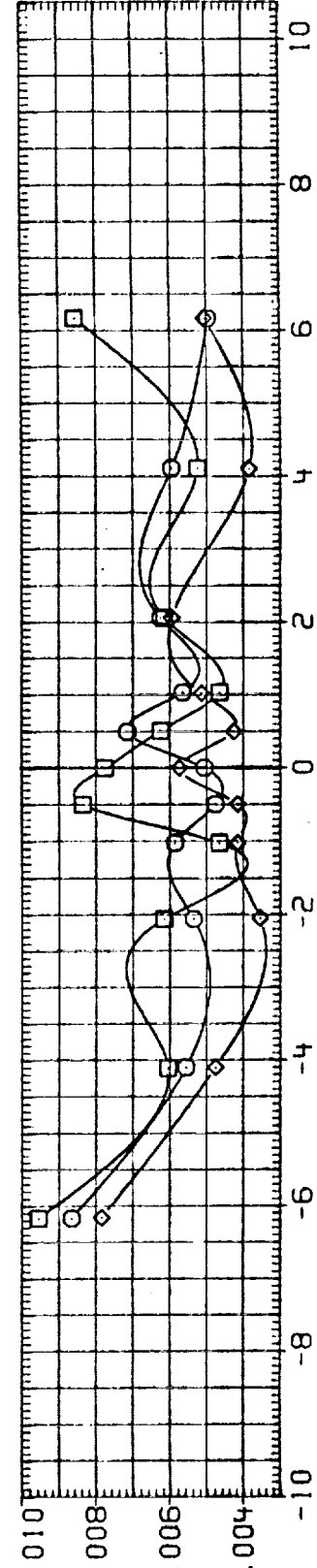
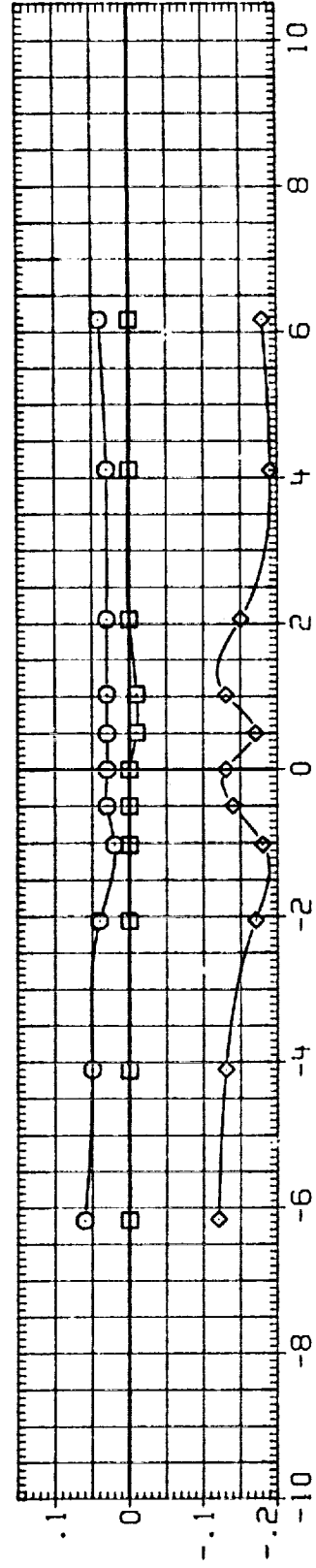
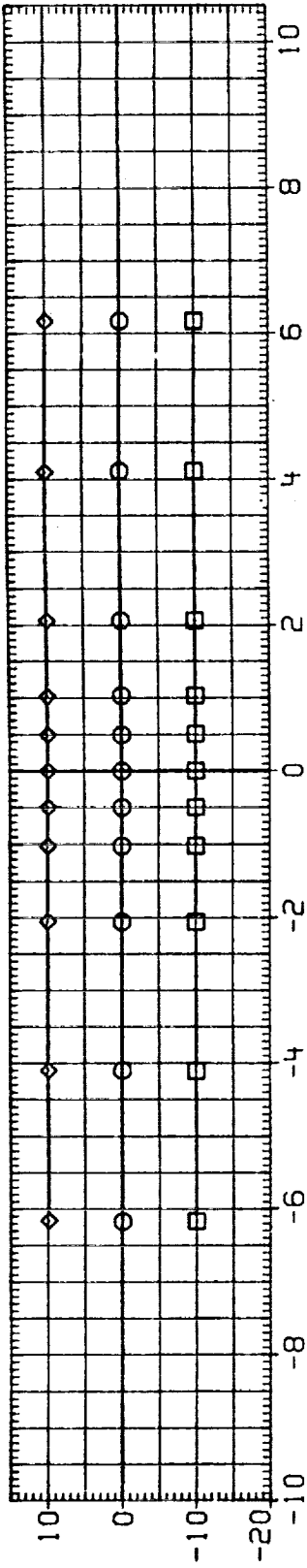


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A)MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION

| | | |
|----------|---|--|
| (RUK074) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK061) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK091) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |

ELEVON AILRON ALPHA RN/L

| | | | |
|---------|------|--------|-------|
| .000 | .000 | 10.000 | 4.500 |
| -10.000 | .000 | 10.000 | 4.500 |
| 10.000 | .070 | 10.000 | 4.500 |

REFERENCE INFORMATION

| | | |
|-------|-----------|---------|
| SREF | 2690.0000 | SO. FT. |
| LREF | 474.8000 | INCHES |
| BREF | 936.6800 | INCHES |
| XMRP | 1076.7000 | IN. XO |
| YMRP | .0000 | IN. YO |
| ZMRP | 375.0000 | IN. ZO |
| SCALE | .0150 | |

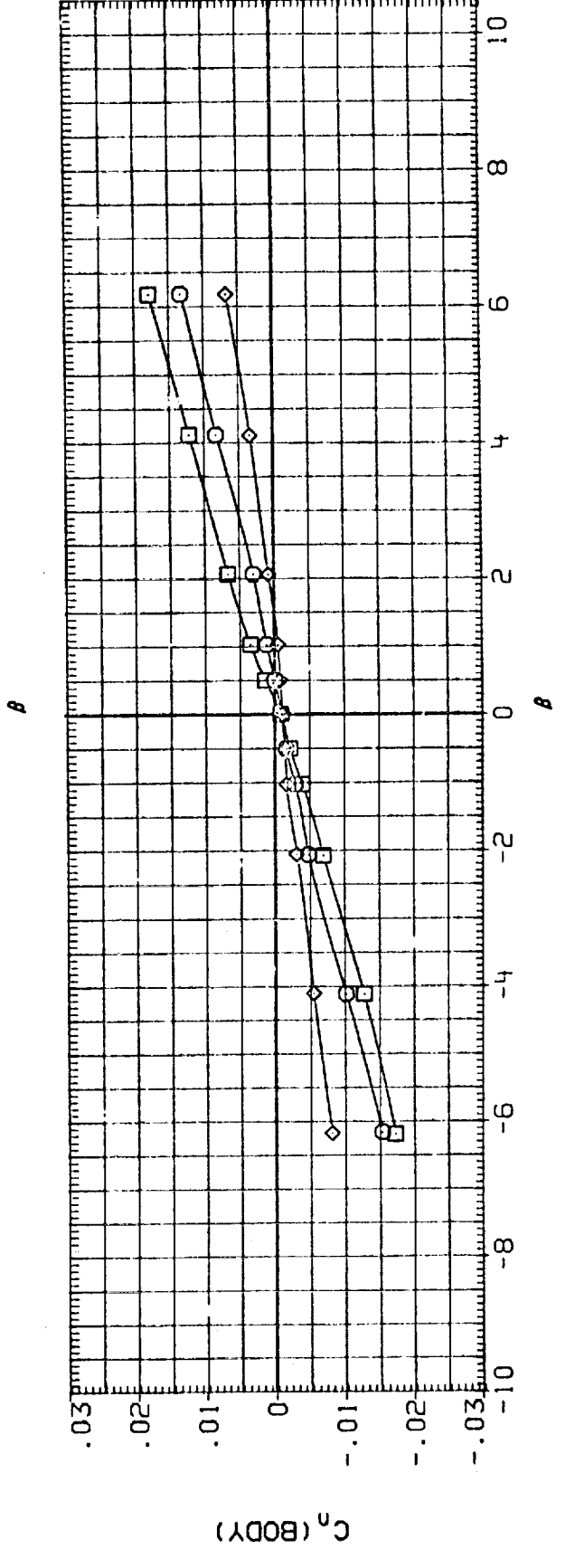
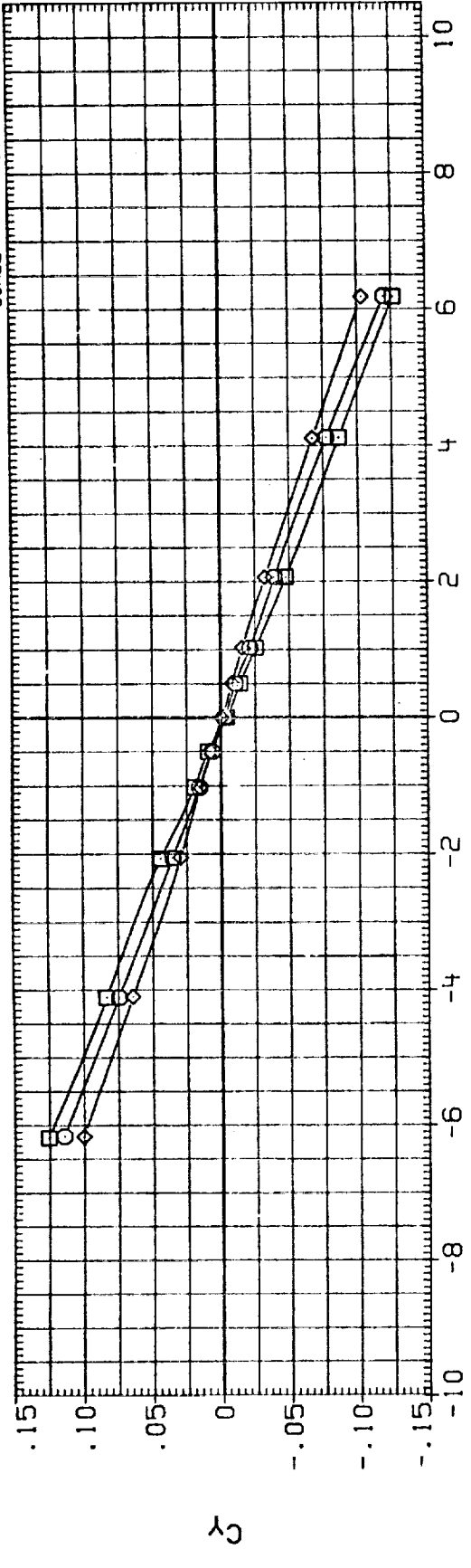


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK074) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK061) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK091) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RV/L

.000 .000 10.000 4.500

-10.000 .000 10.000 4.500

10.000 .000 10.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

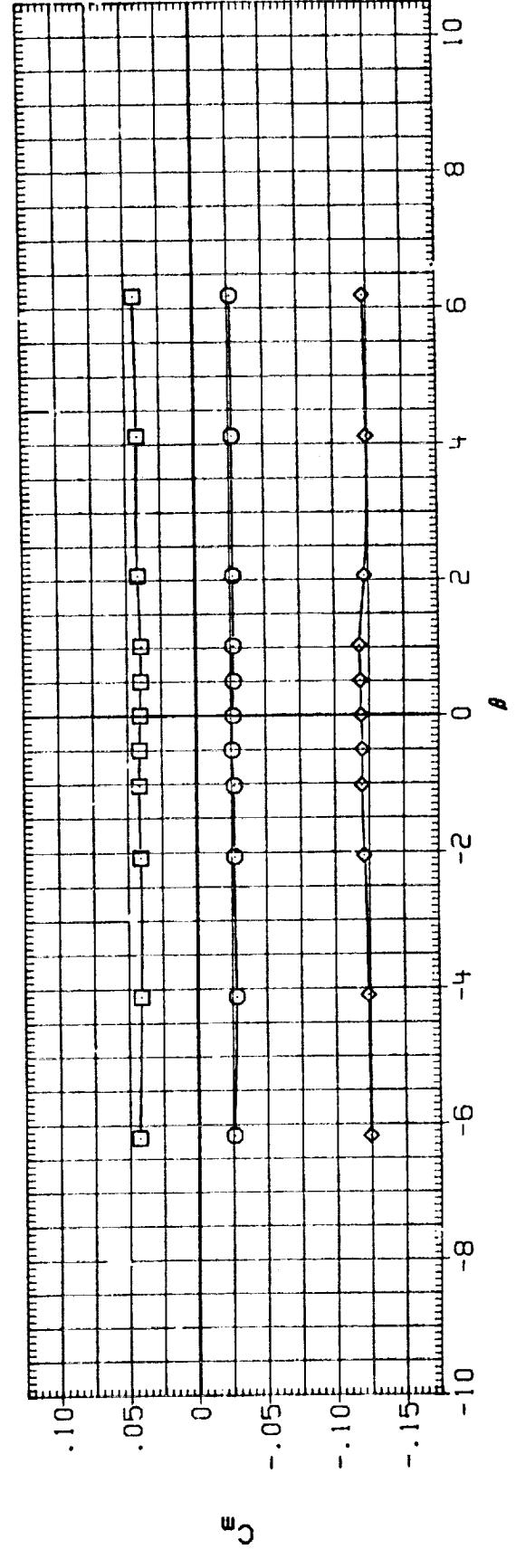
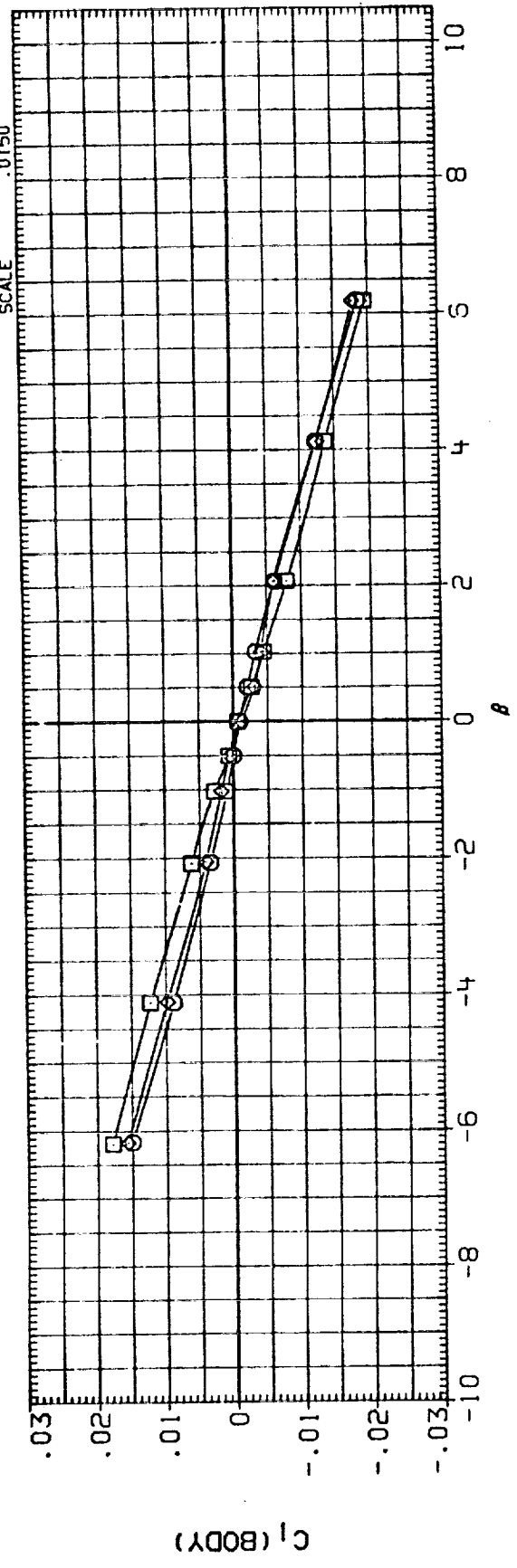


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = 1.05

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILLON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| (RUK074) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. YO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

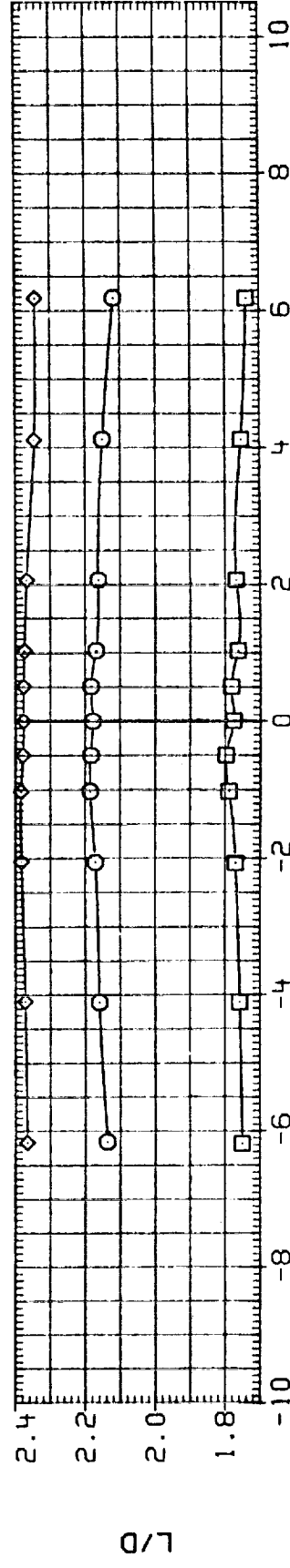
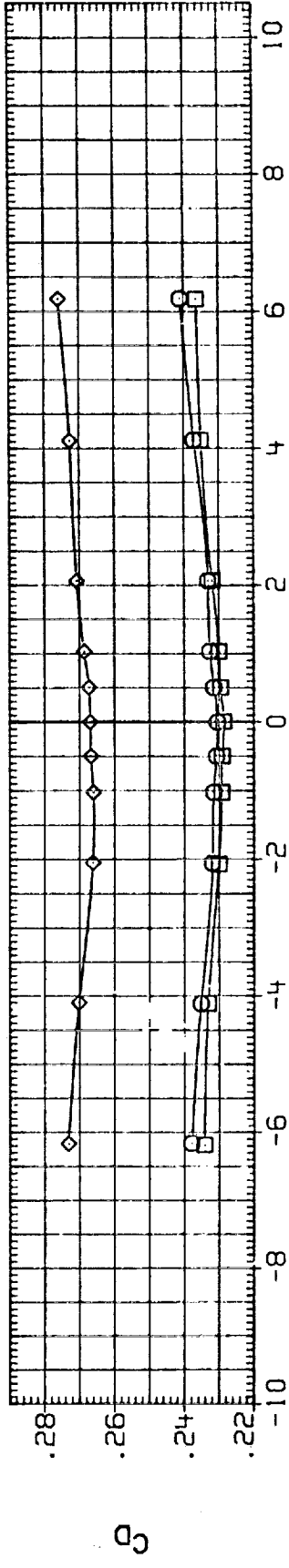
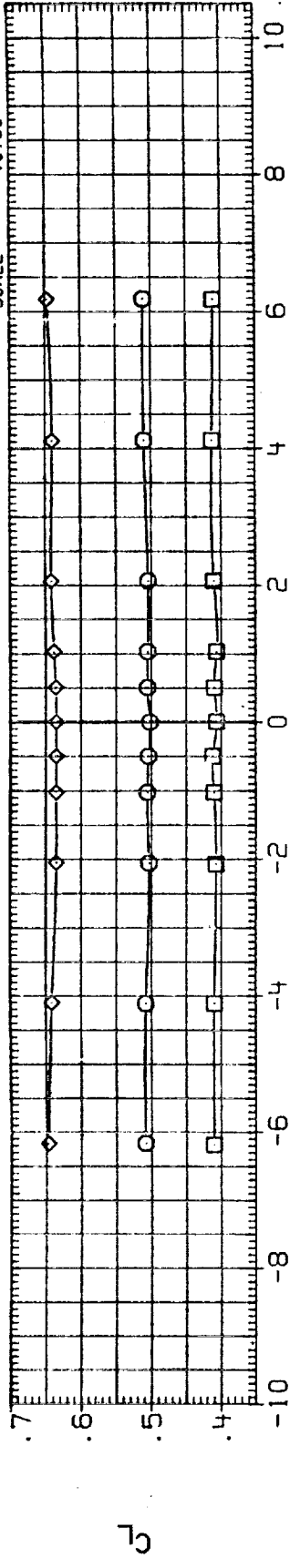


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | A ILRON | ALPHA | RN/L | REFERENCE INFORMATION |
|----------|--------|--|---------|---------|--------|-------|------------------------|
| (CUK074) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.500 | SREF 2690.0000 SO. FT. |
| (CUK061) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.500 | LREF 474.8000 INCHES |
| (CUK091) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

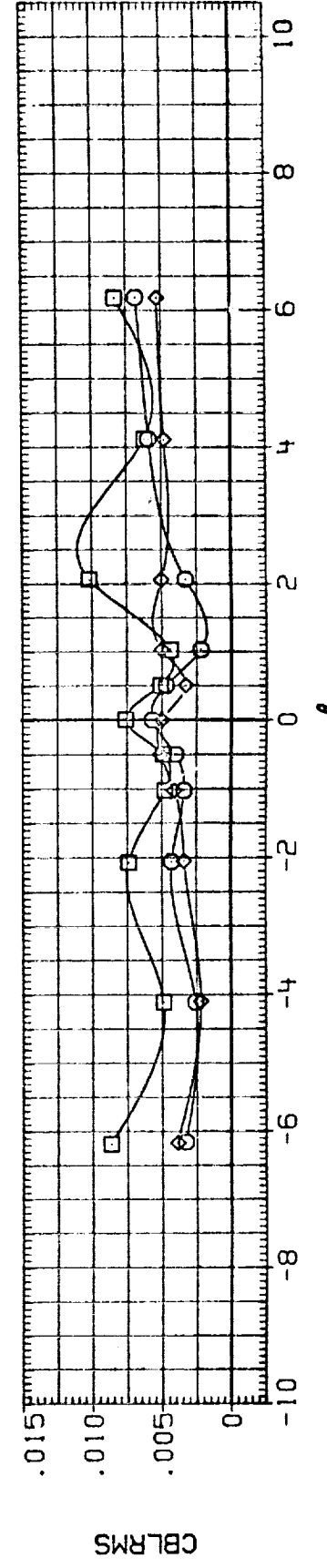
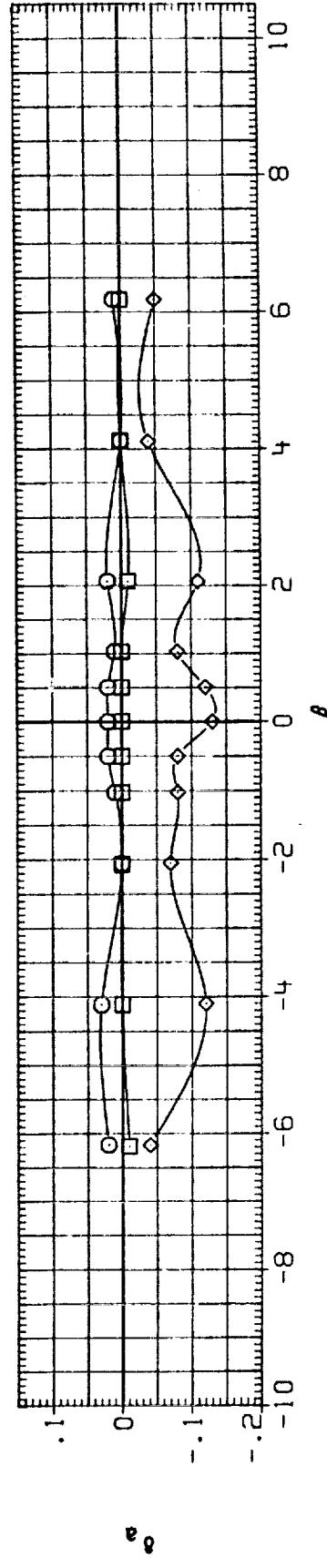
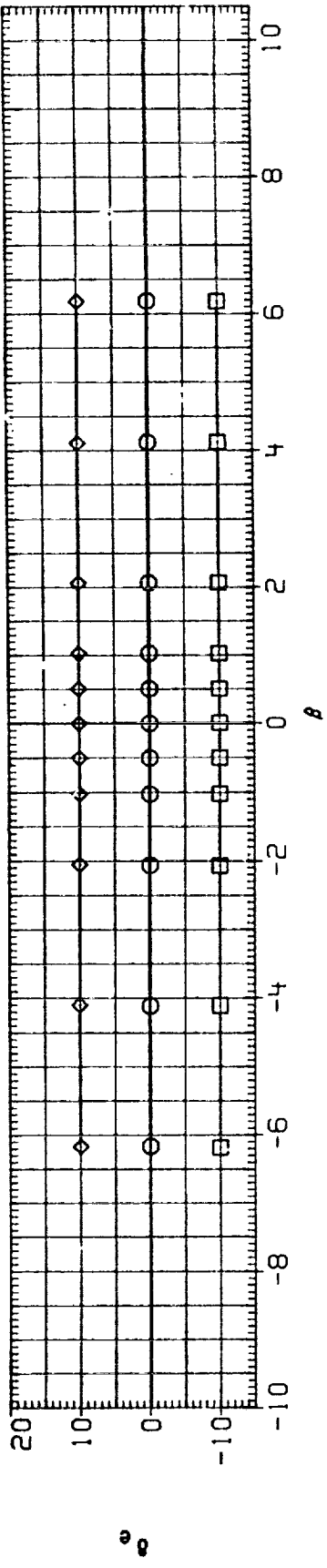


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = 1.05

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| (RUK074) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.500 | LREF 474.6000 INCHES |
| (RUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

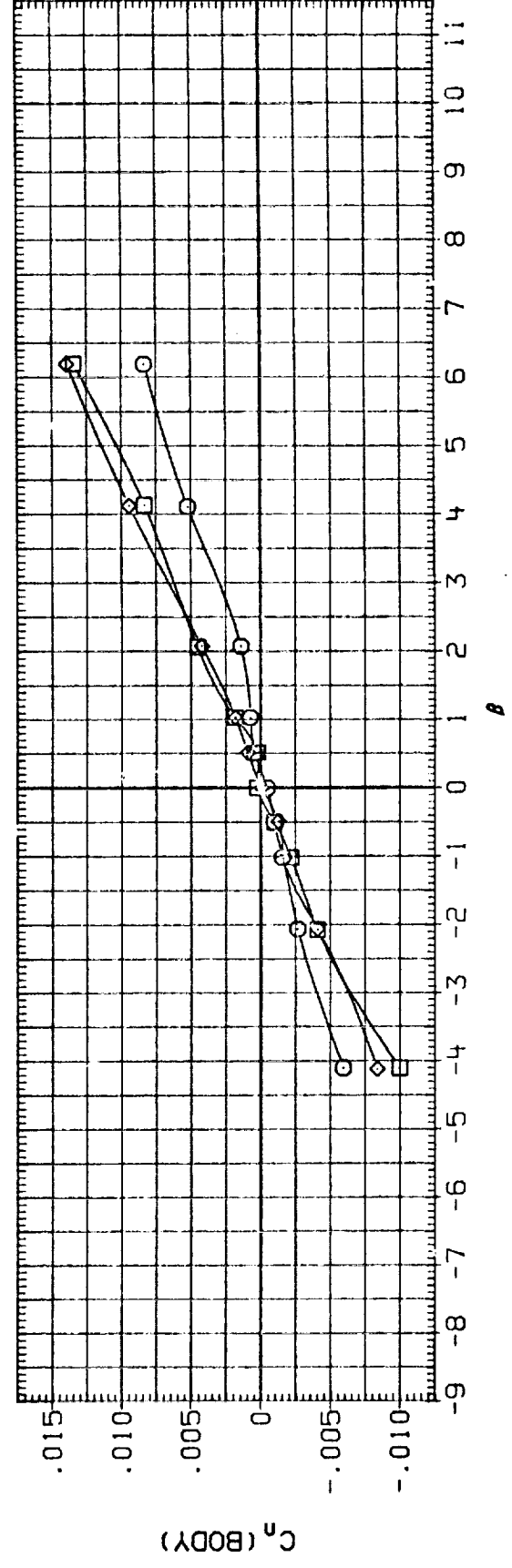
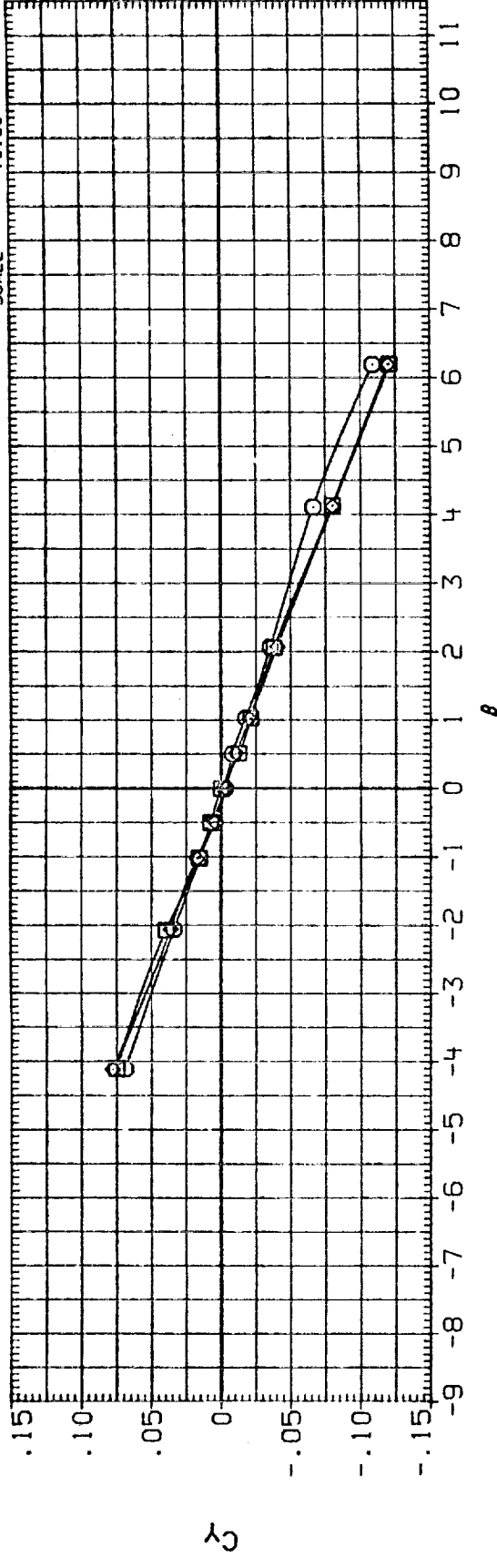


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK074) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK061) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK091) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RN/L

.000 .000 10.000 4.500

-10.000 .000 10.000 4.500

10.000 .000 10.000 4.500

REFERENCE INFORMATION

SEEF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.5800 INCHES

YMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

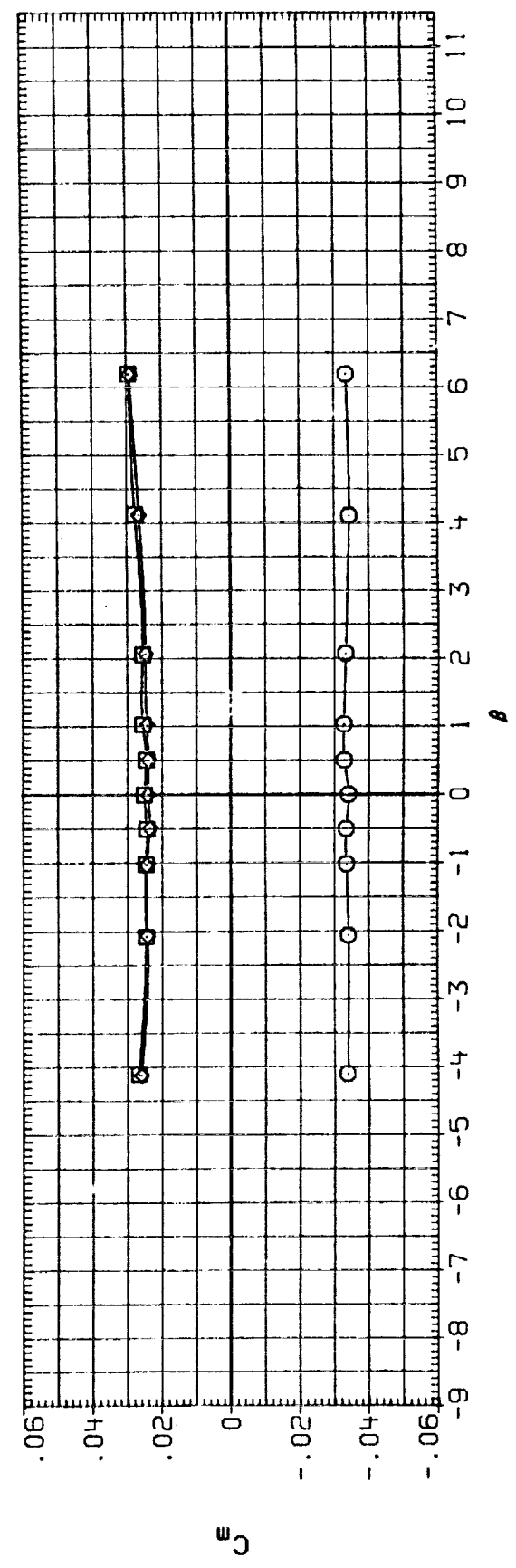
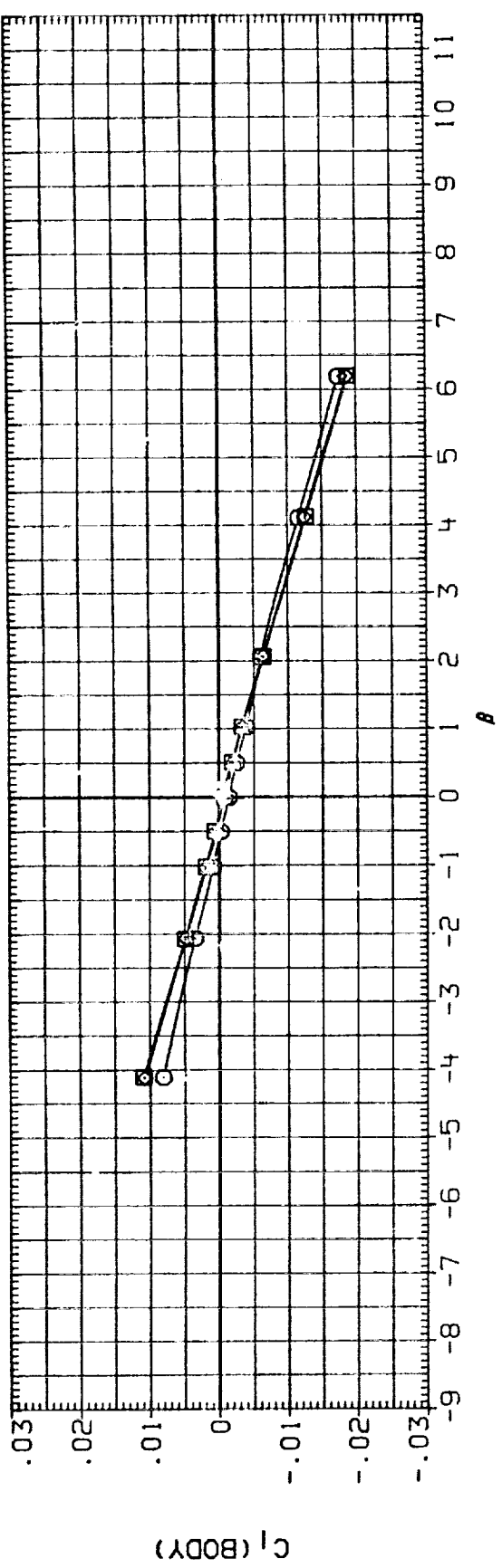


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A)MACH = 1.12

| | | | | | | |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | A1LRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK074) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.500 | SREF 2690.0000 SO.FT. |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | YMRP 1076.7000 IN. XO |
| | | | | | | ZMRP 375.0000 IN. YO |
| | | | | | | SCALE 0.150 |

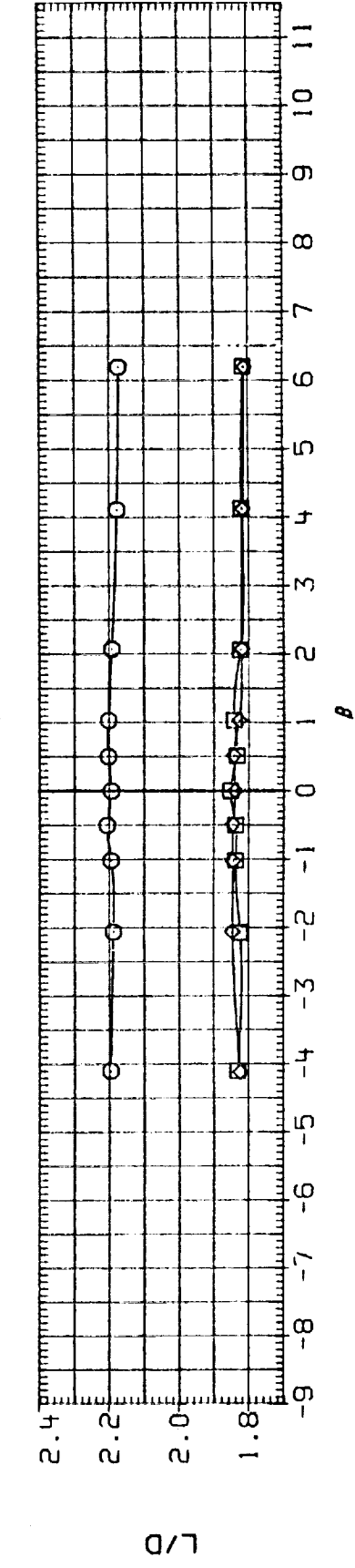
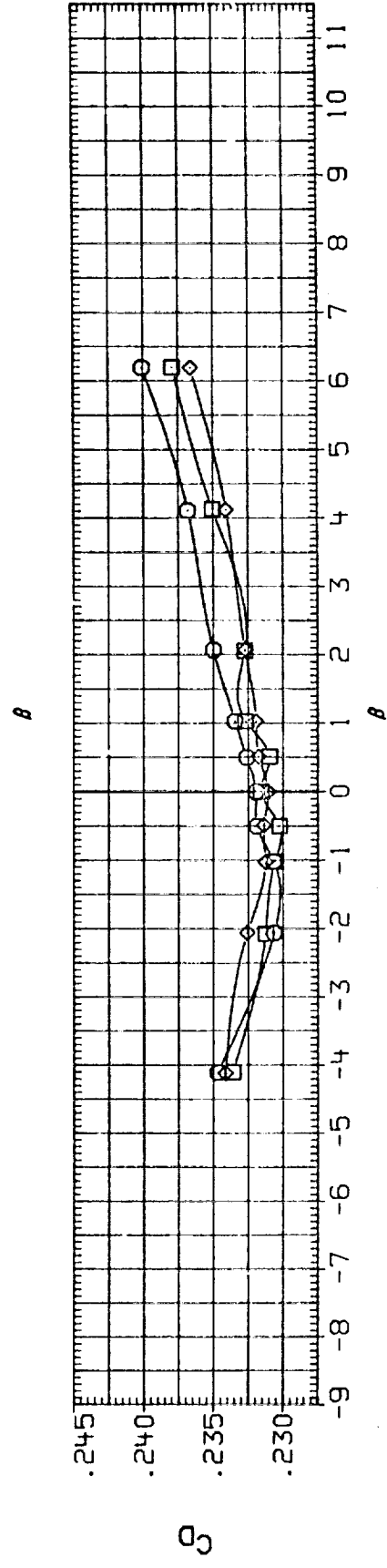
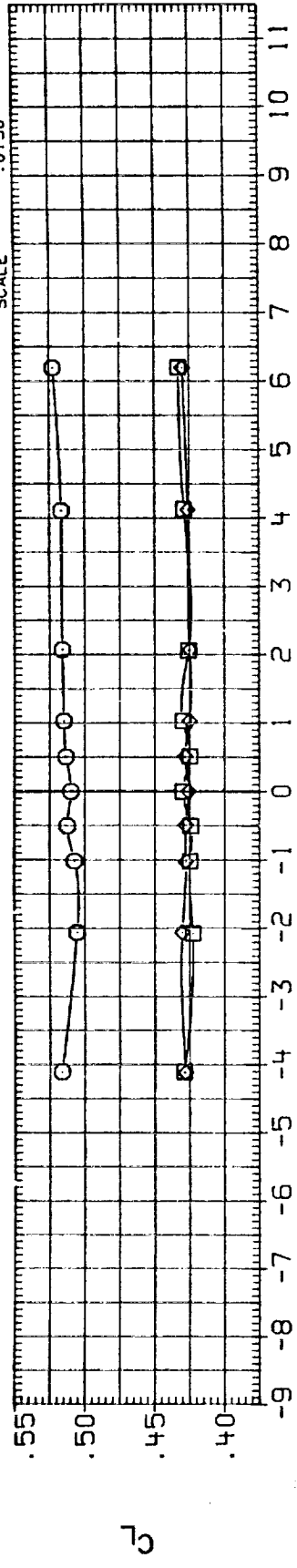


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK074) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK061) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK091) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RV/L

.000 .000 10.000 4.500

-10.000 .000 10.000 4.500

10.000 .000 10.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. YO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

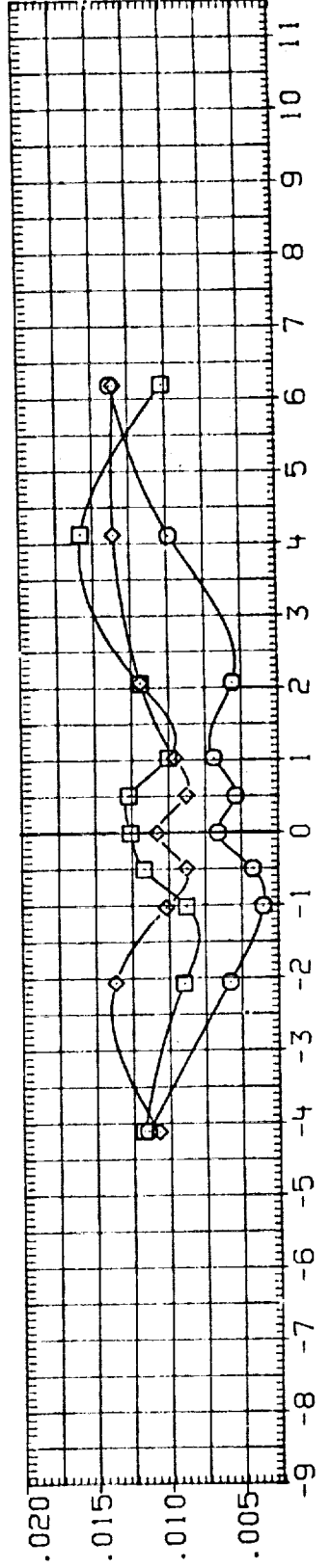
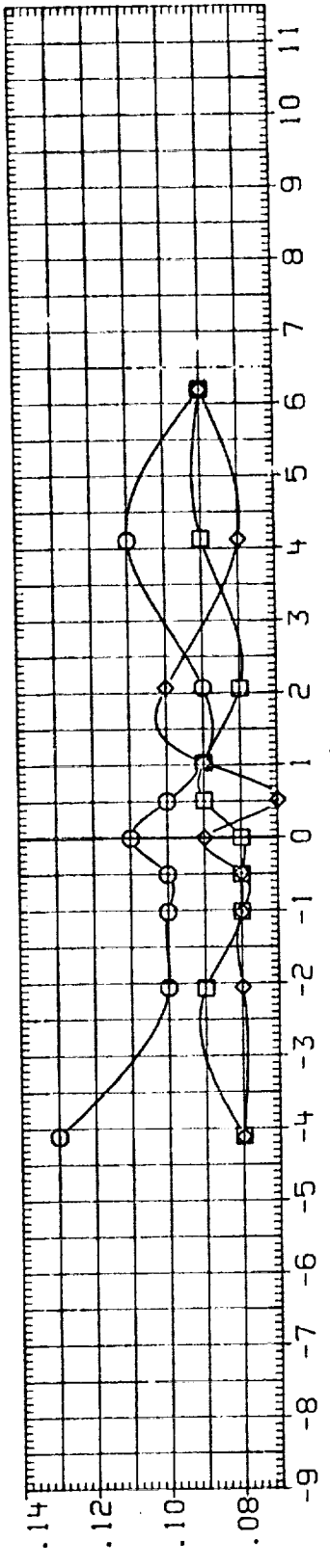
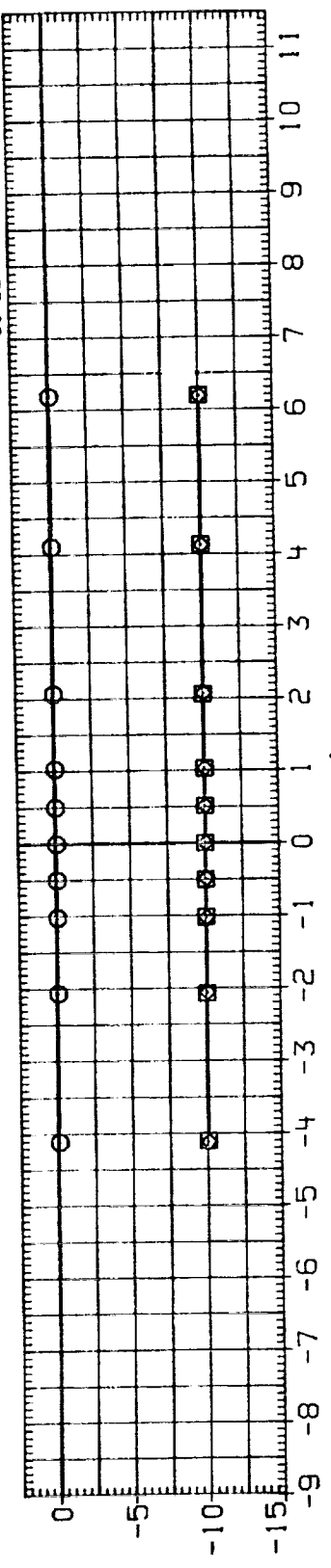


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = 1.12

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | A I L R O N | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|-------------|--------|-------|-----------------------|
| (RUK0751) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.000 | SREF 2690.0000 SQ.FT. |
| (RUK062) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.000 | LREF 474.8000 INCHES |
| (RUK092) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

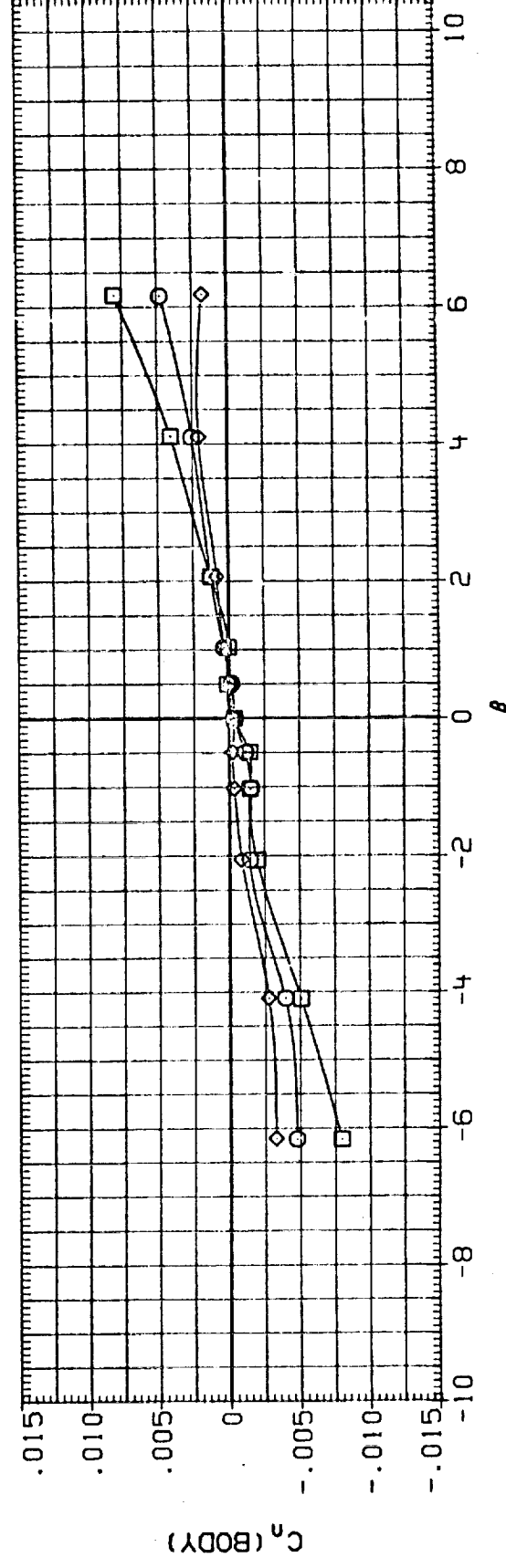
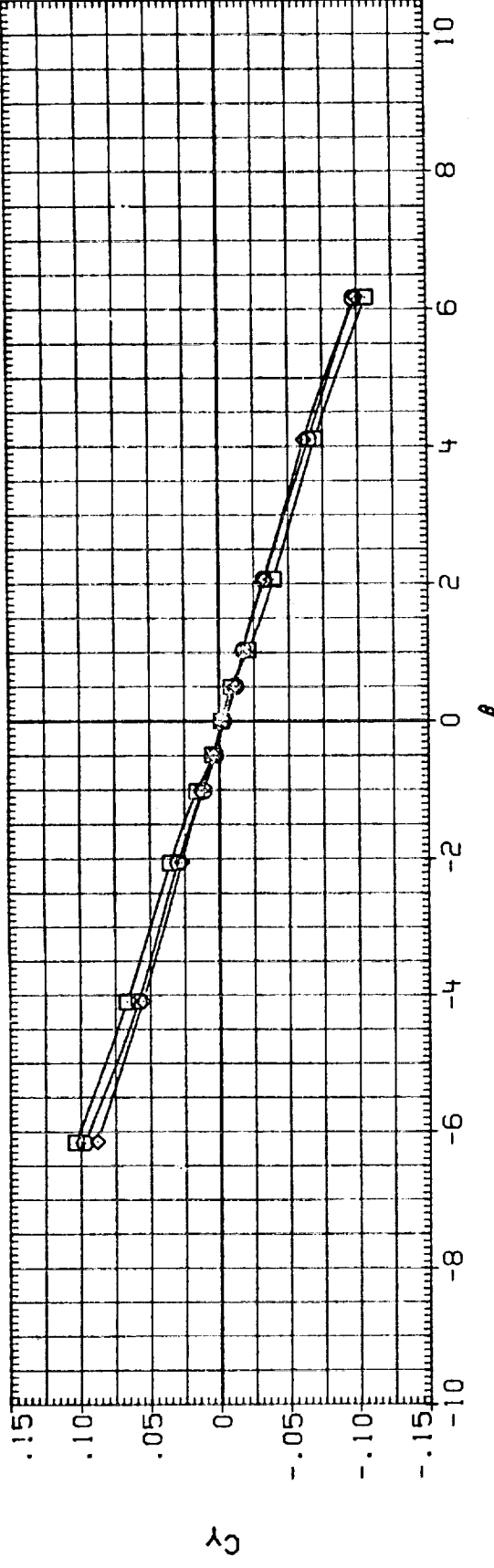


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK075) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK062) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK092) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RN/L

.000 .000 10.000 4.000

-10.000 .000 10.000 4.000

10.000 .000 10.000 4.000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

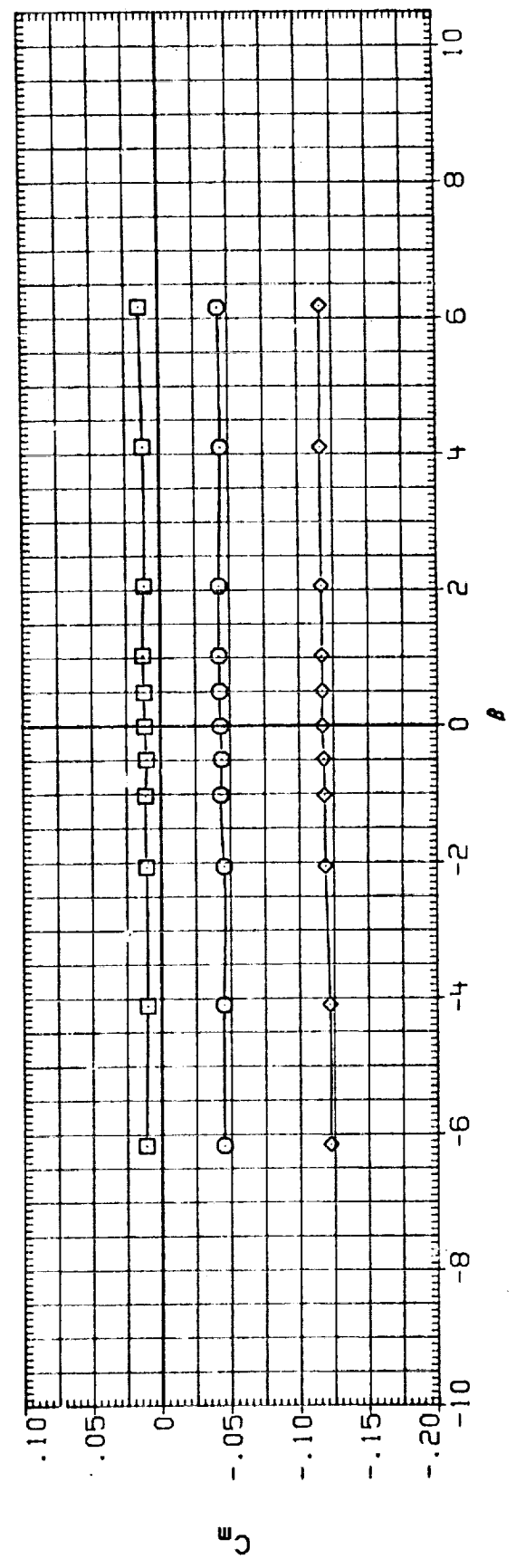
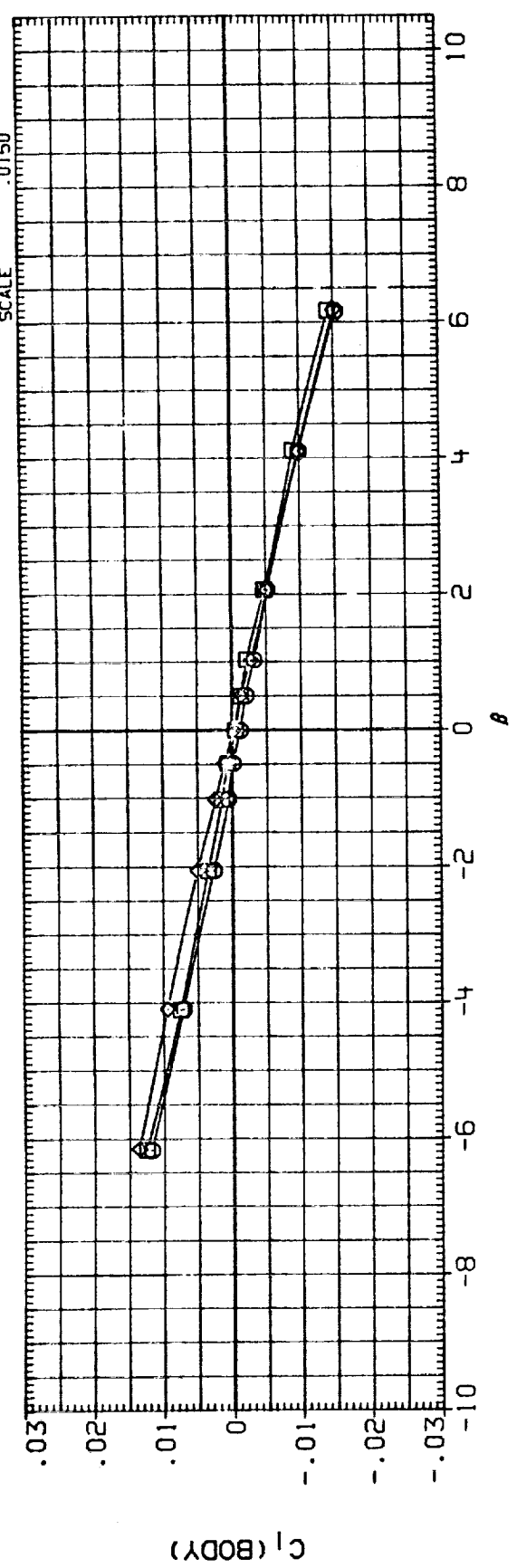


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = 1.20

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|--------|-------|------------------------|
| (RUK075) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.000 | SREF 2690.0000 SQ. FT. |
| (RUK062) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.000 | LREF 474.8000 INCHES |
| (RUK092) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.000 | BREF 936.6800 INCHES |
| | | | | | | XM*P 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

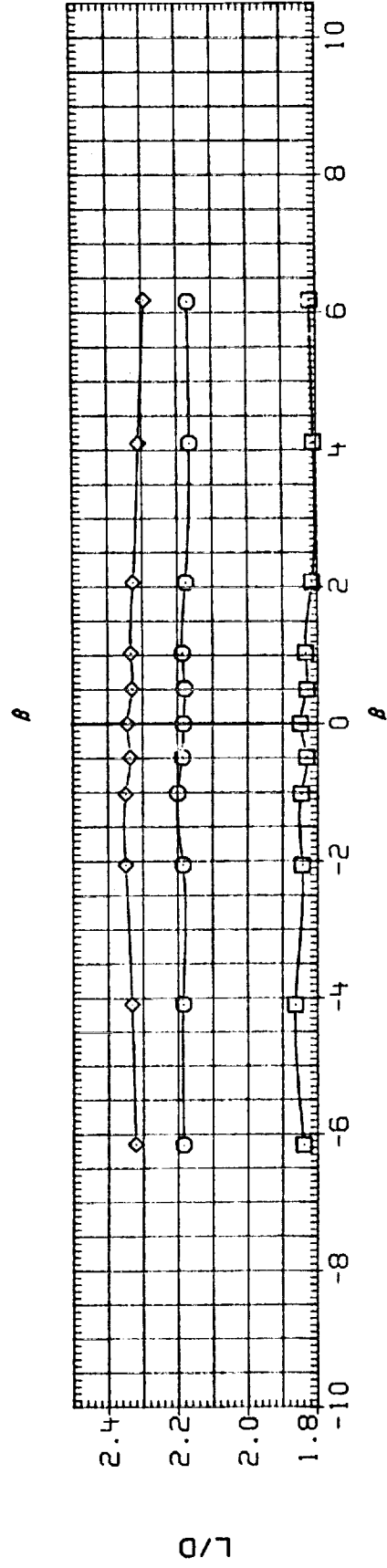
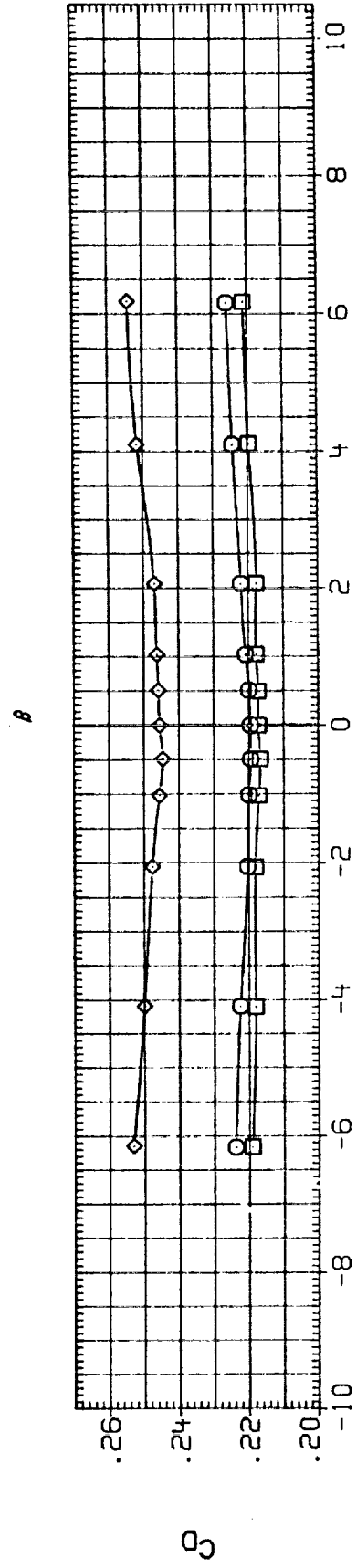
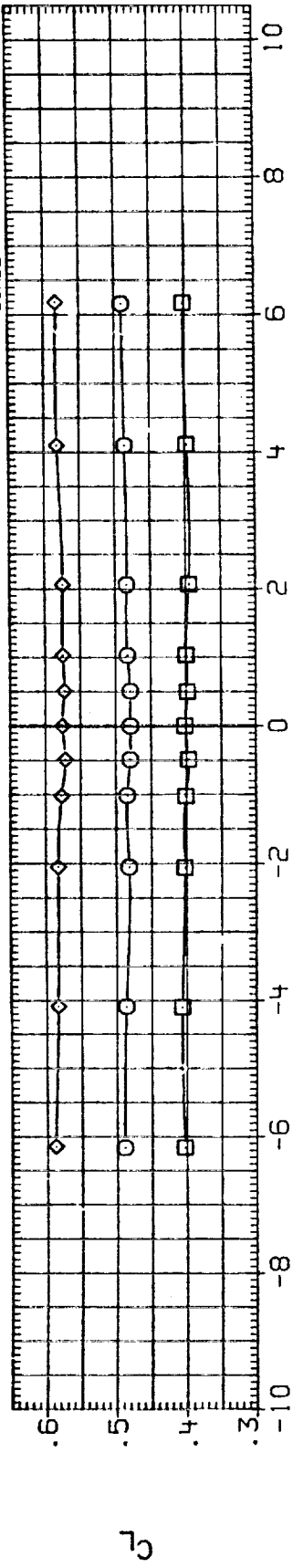


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

| | | | | | | |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLON | ALPHA | RN/L | REFERENCE INFORMATION |
| (CUK075) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 10.000 | 4.000 | SREF 2690.0000 SO.FT. |
| (CUK062) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 10.000 | 4.000 | LREF 474.8000 INCHES |
| (CUK092) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 10.000 | 4.000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

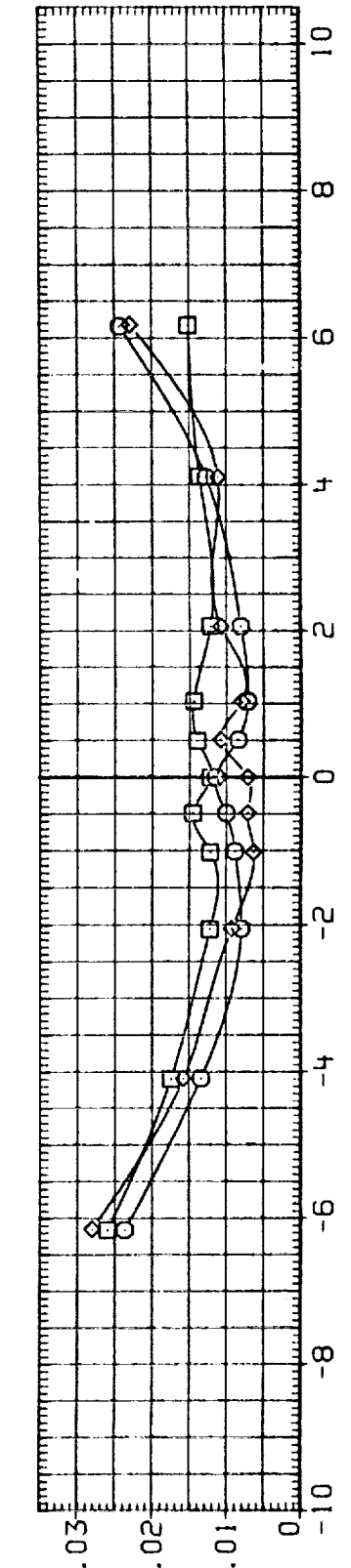
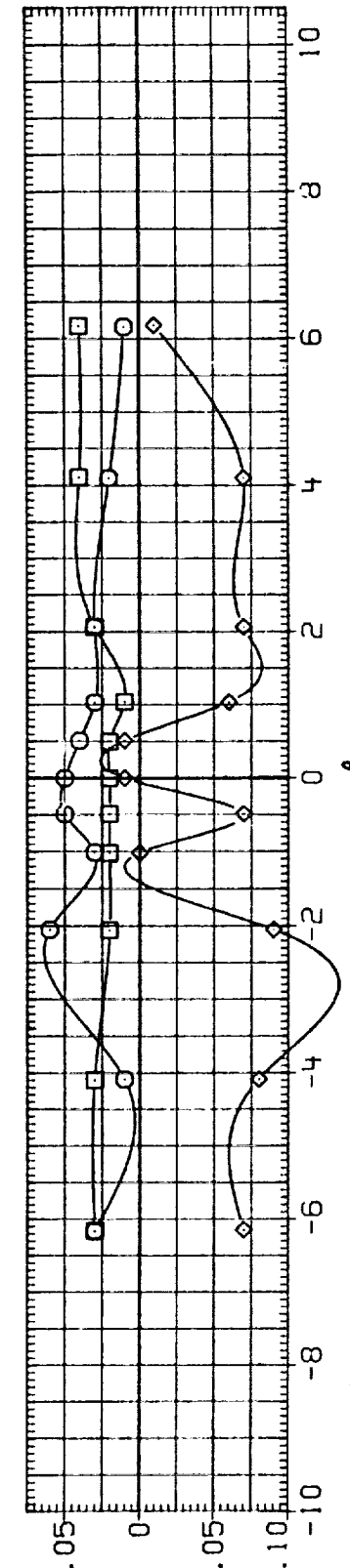
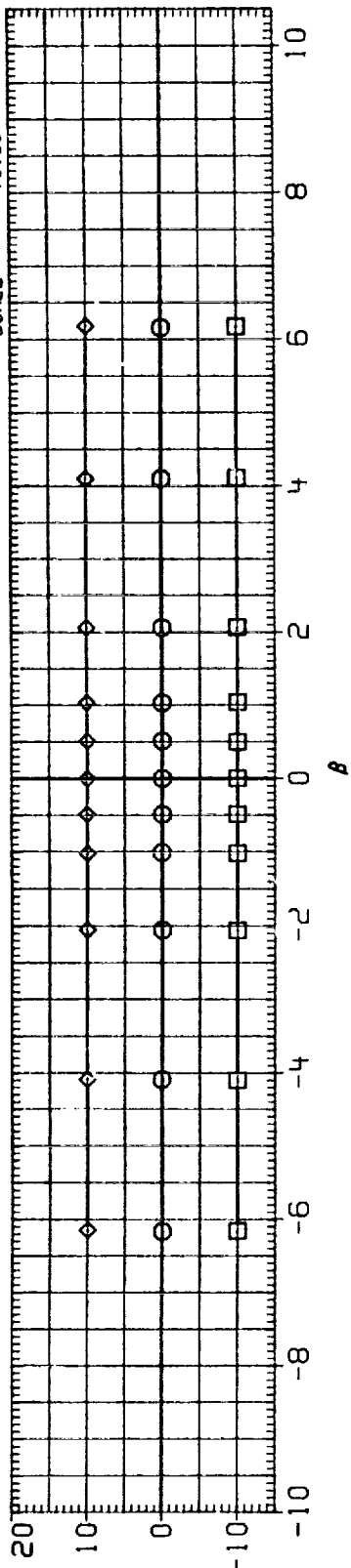


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | A1LFRN | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| (RUK079) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | .000 | .000 | 15.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | -10.000 | .000 | 15.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK093) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 10.000 | .000 | 15.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | YMRP 1076.7000 IN. X0 |
| | | | | | | ZMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

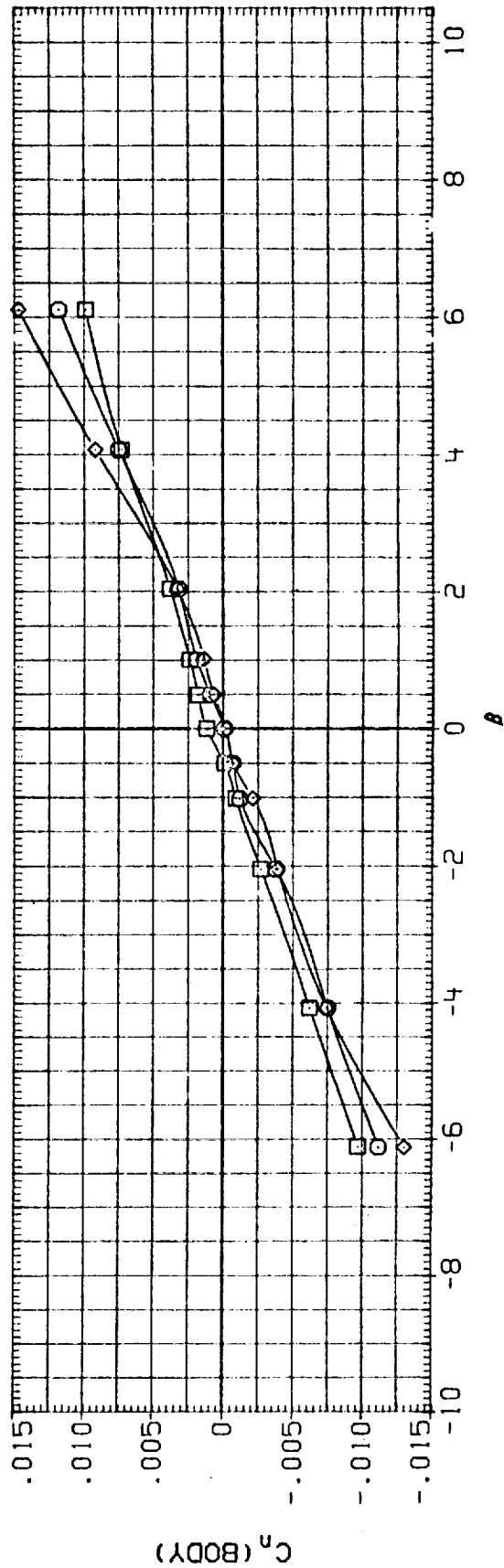
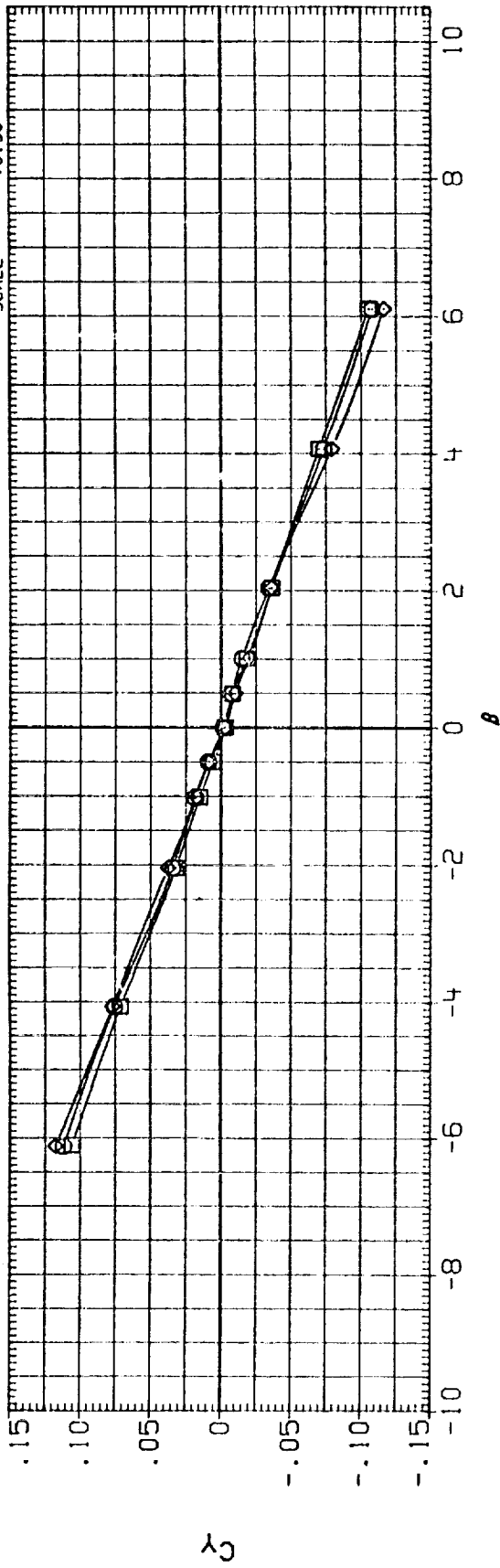


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BR'F 936.6800 INCHES
 XMRP 1076.7000 IN. YO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

RNVL 4.500
 ALPHA 15.000
 AIRLON .000
 ELEVON .000
 -10.000
 10.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK079) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK064) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK093) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

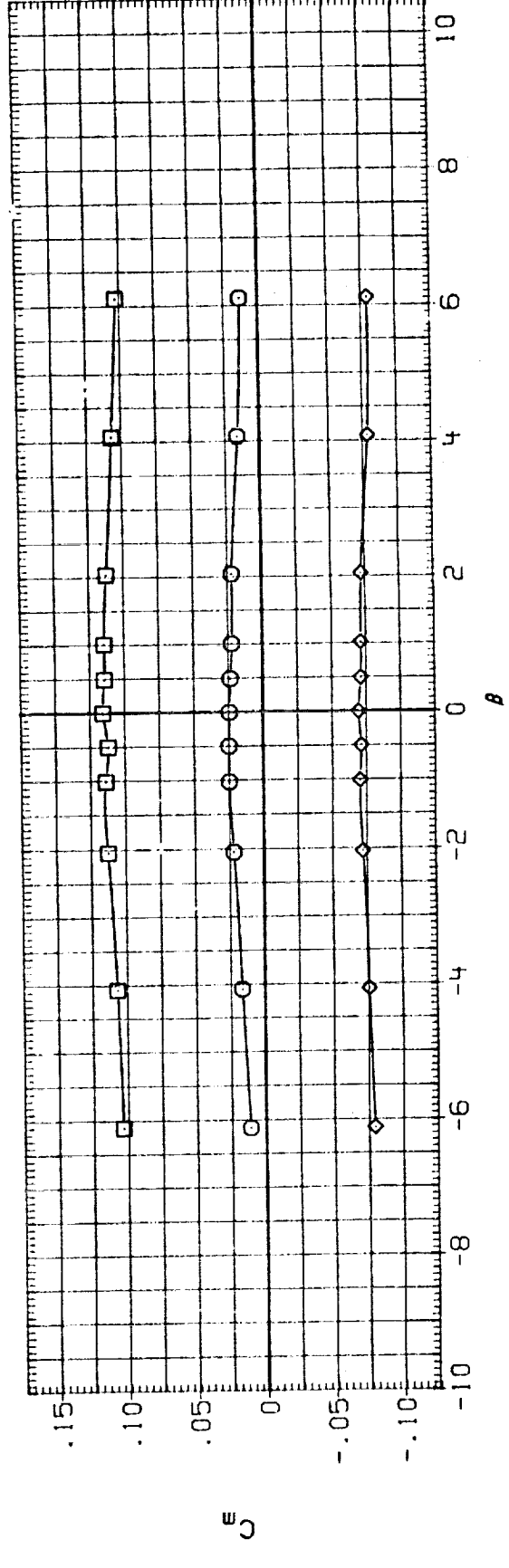
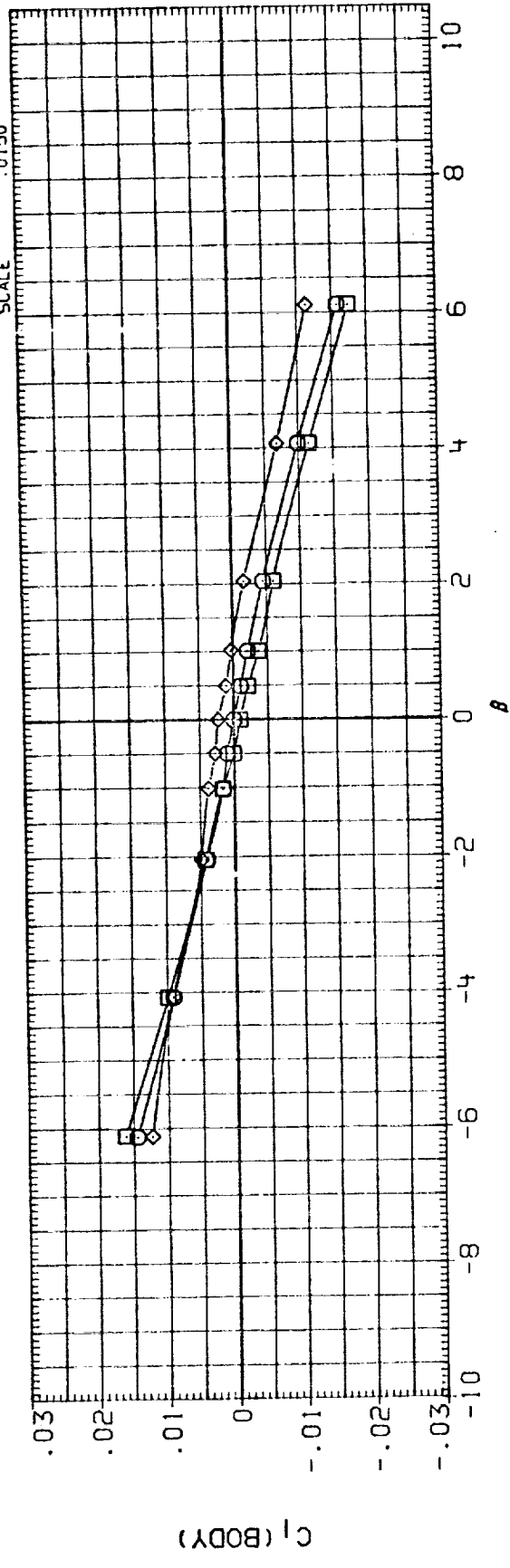


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = .60

| | | | | | | |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK079) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 15.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK084) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 15.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK093) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 15.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMPP 1076.7000 IN. XO |
| | | | | | | YMPP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

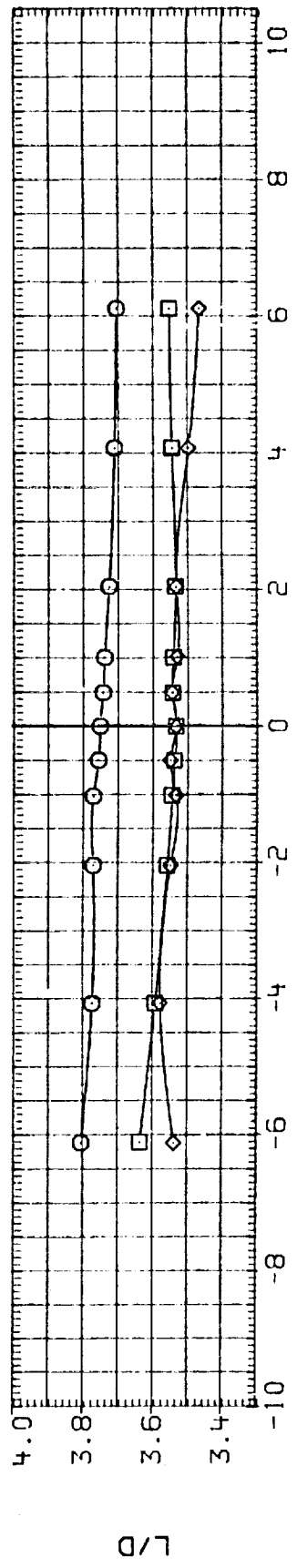
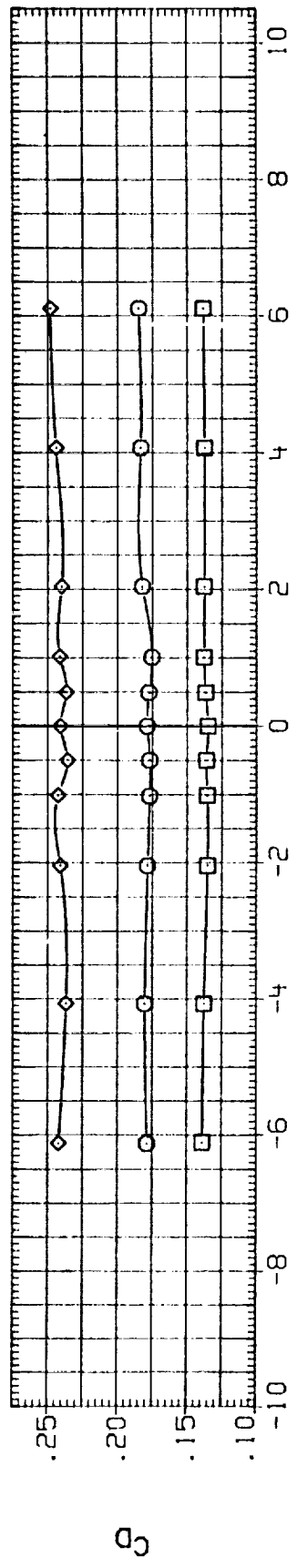
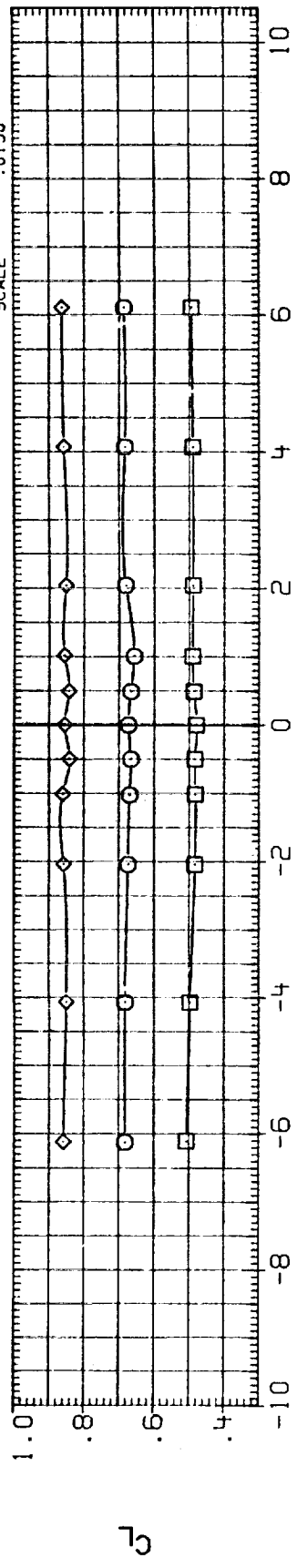


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = .60

| | | | | | | |
|-----------------|--|---------|---------|--------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILIRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (CUK079) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 15.000 | 4.500 | SREF 2690.0000 SO.FT. |
| (CUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .030 | 15.000 | 4.500 | LREF 474.8000 INCHES |
| (CUK033) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 15.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | X:RP 1076.7000 IN. XO |
| | | | | | | Y:RP .0000 IN. YO |
| | | | | | | Z:MRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

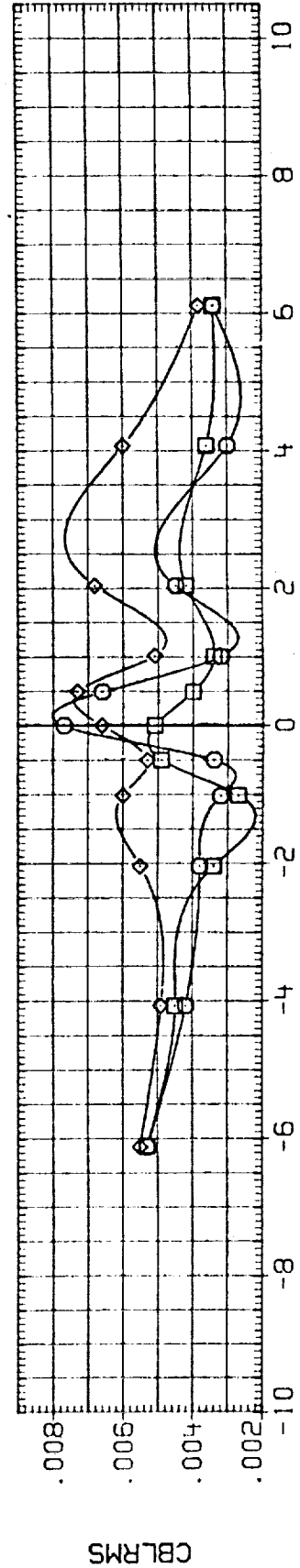
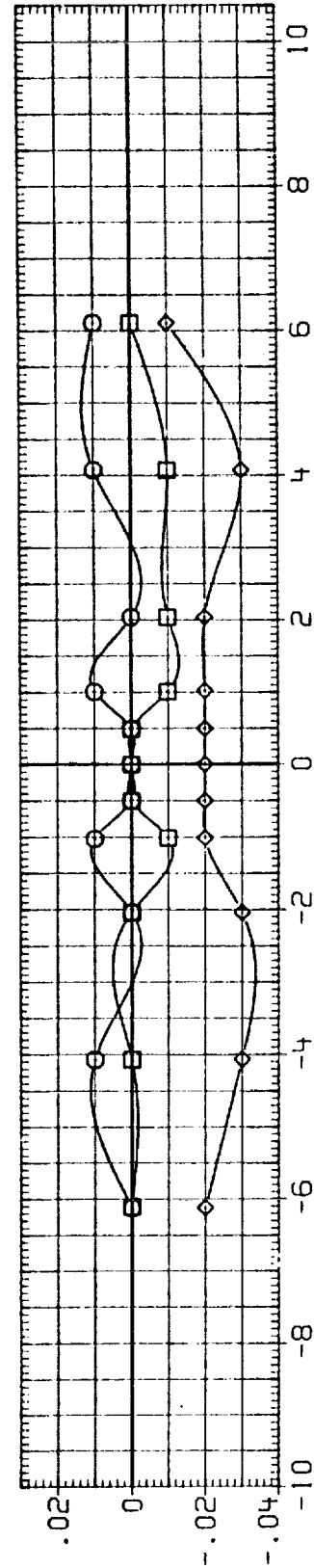
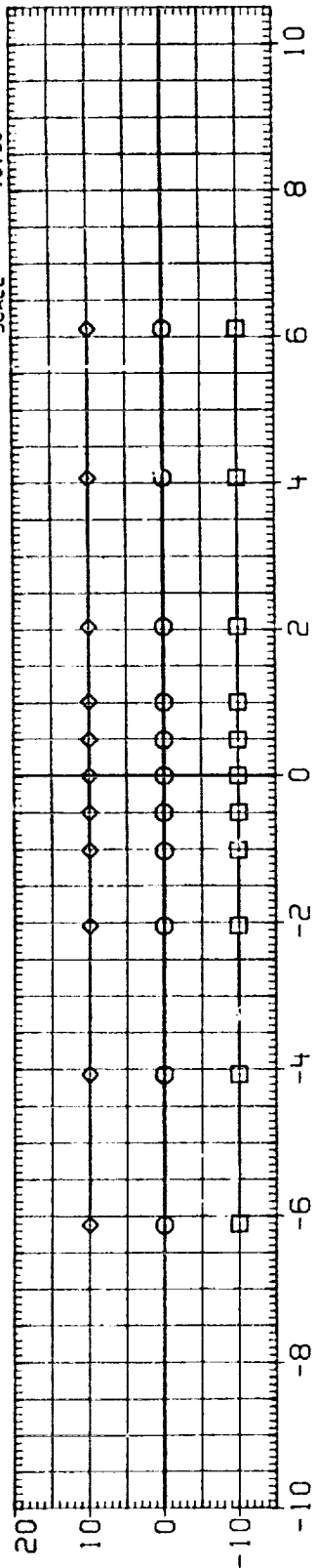


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | A1LRON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| (RUK079) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 15.000 | 4.500 | SREF 2690.0000 SO.FT. |
| (RUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 15.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK093) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 15.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

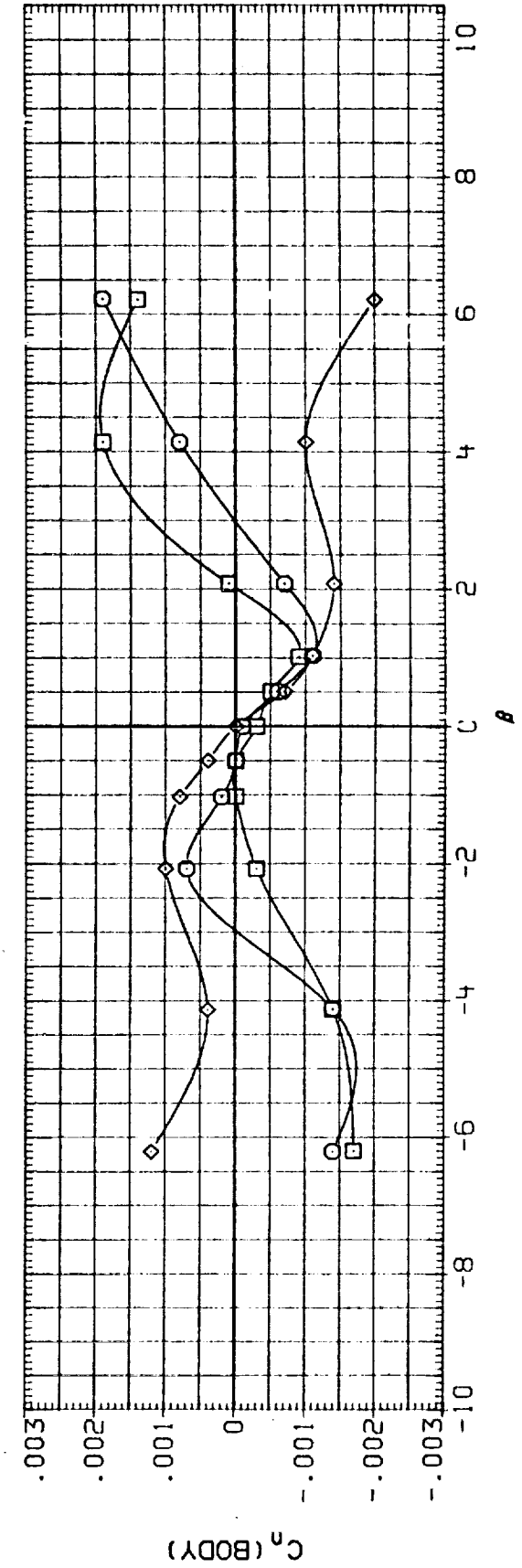
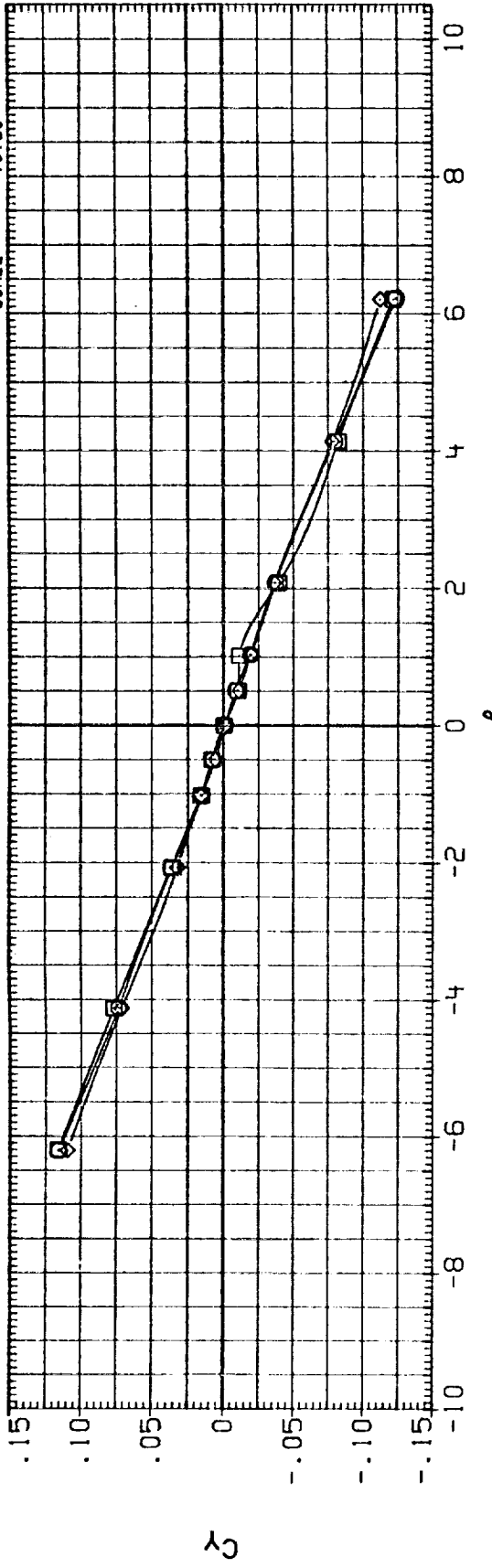


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK079) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK064) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK093) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILTRON ALPHA RNL/L

.000 .000 15.000 4.500

-10.000 .000 15.000 4.500

10.000 .000 15.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

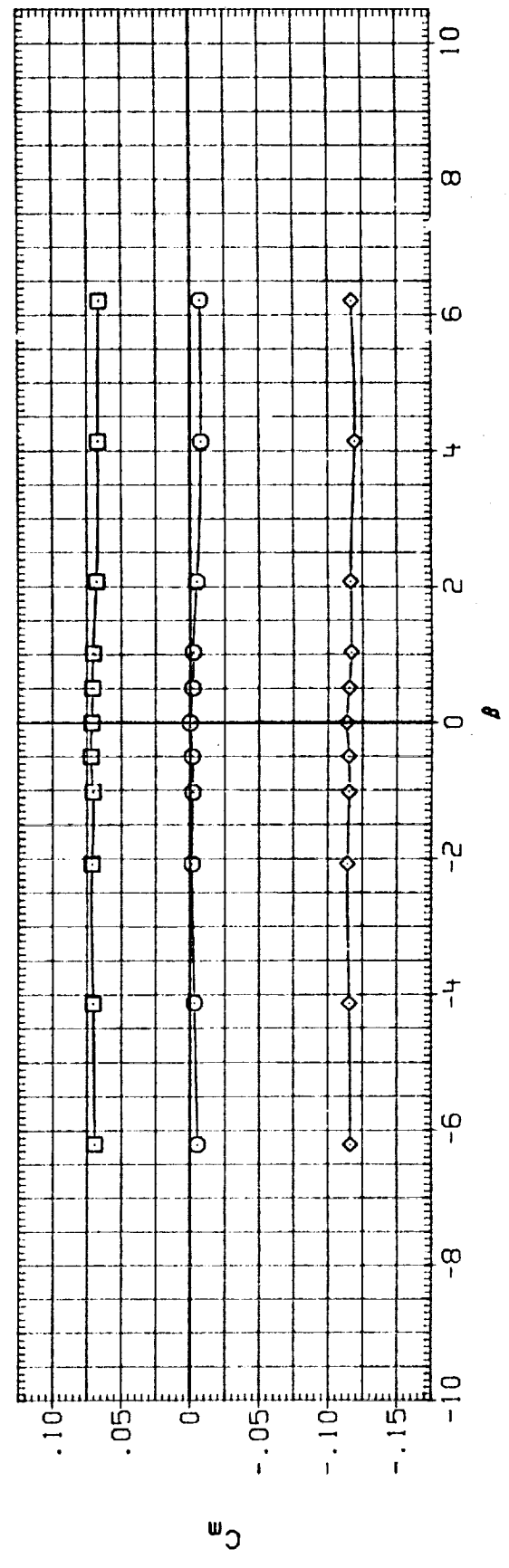
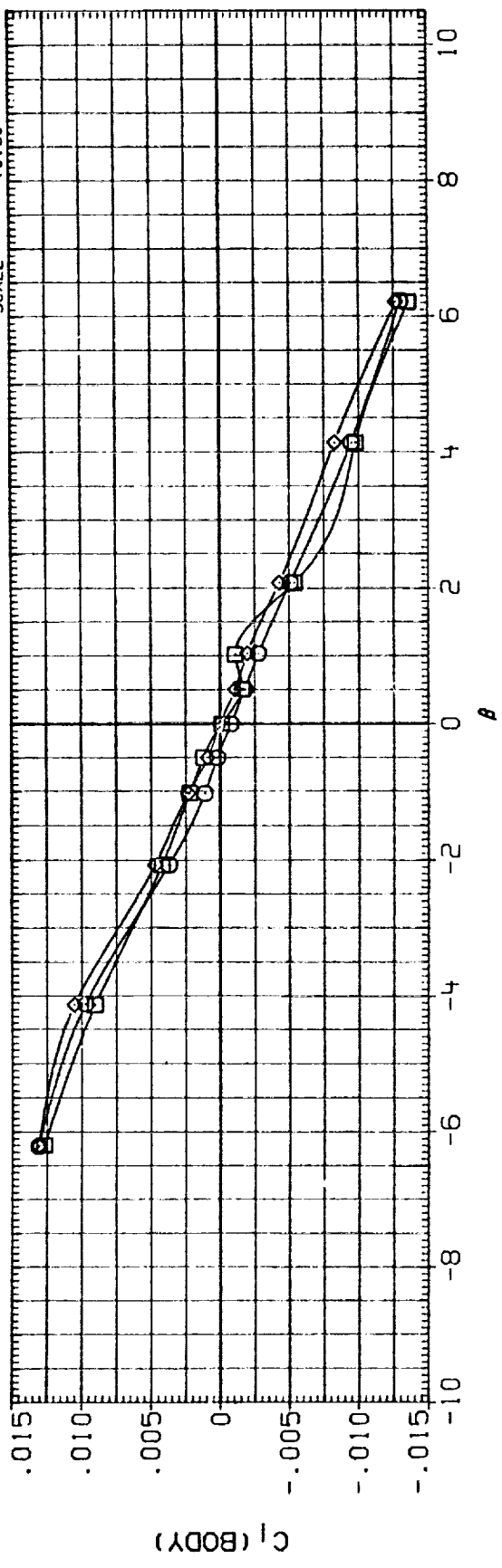


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = .90

| | | | | | | |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK079) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 15.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 15.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK093) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 15.000 | 4.500 | BR.F 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

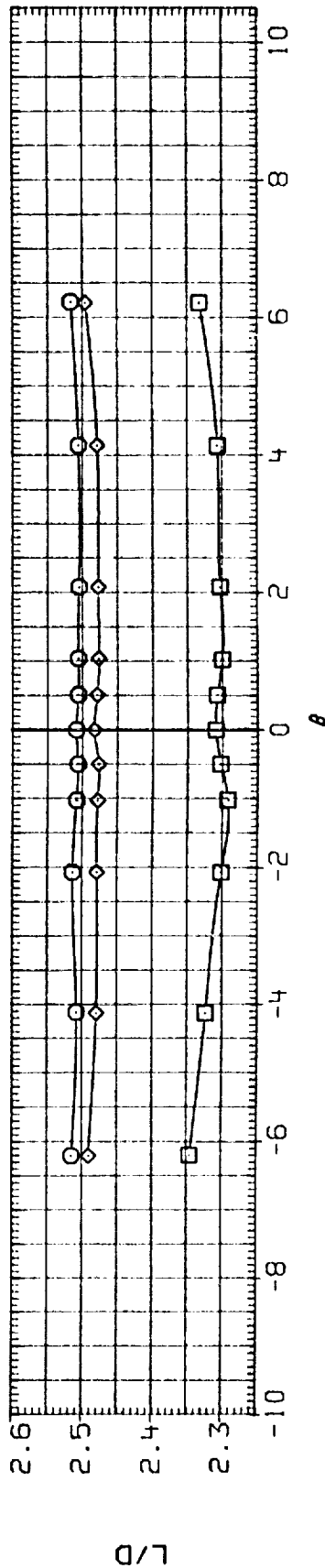
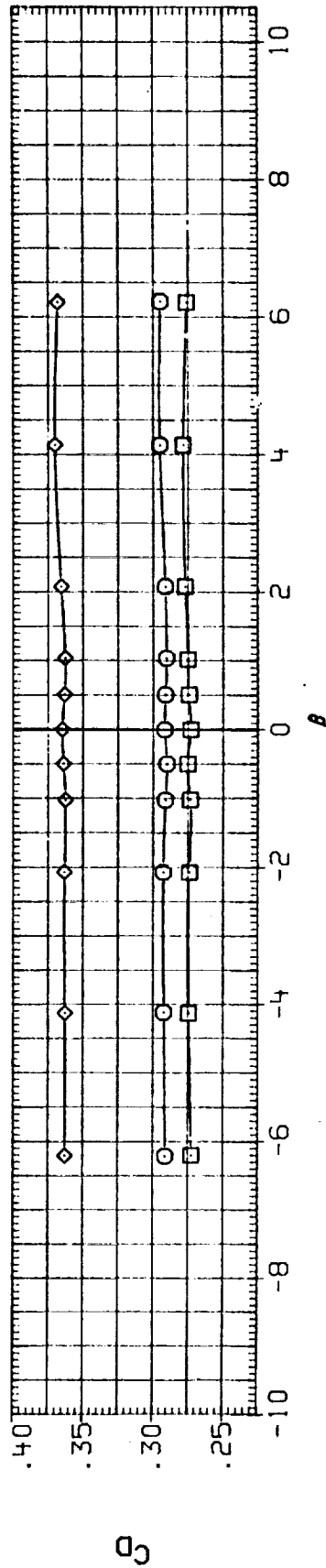
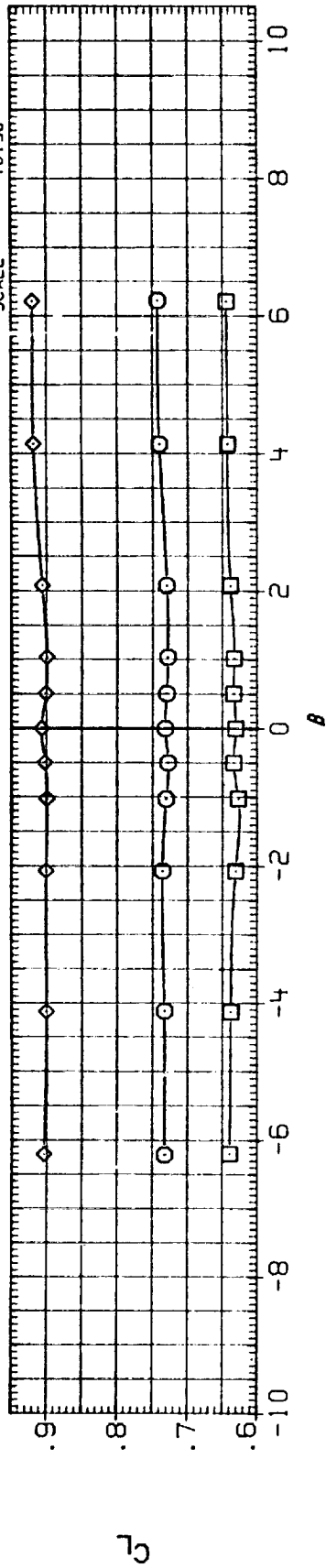


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = .90

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| (CUK079) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 15.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (CUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 15.000 | 4.500 | LREF 474.8000 INCHES |
| (CUK093) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 15.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

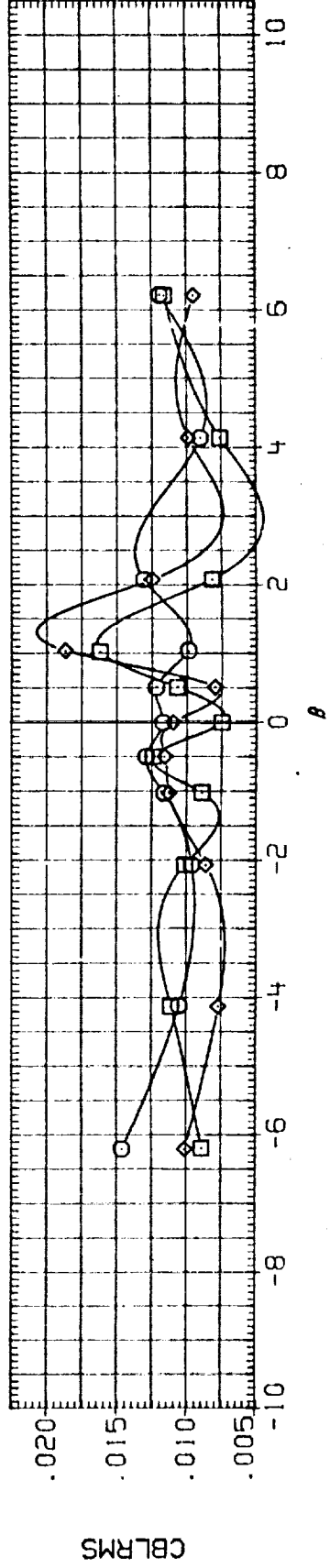
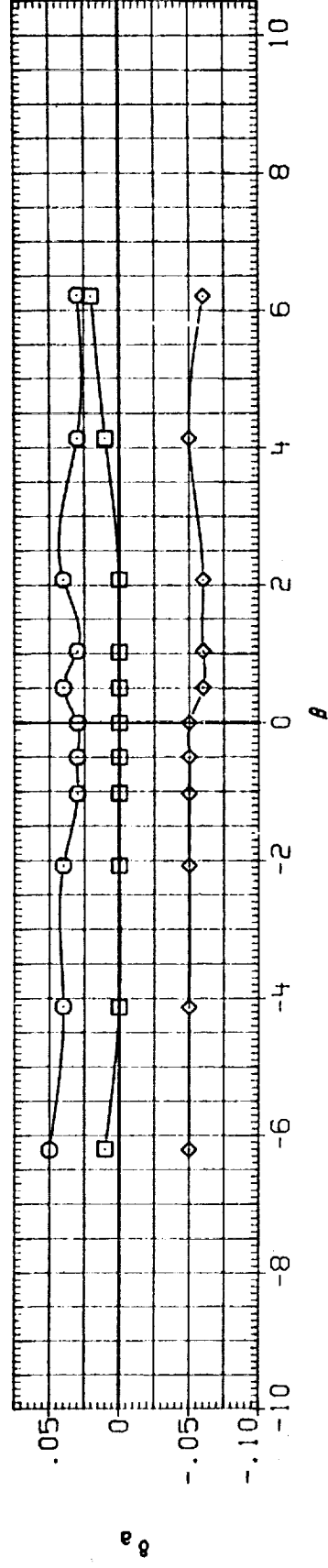
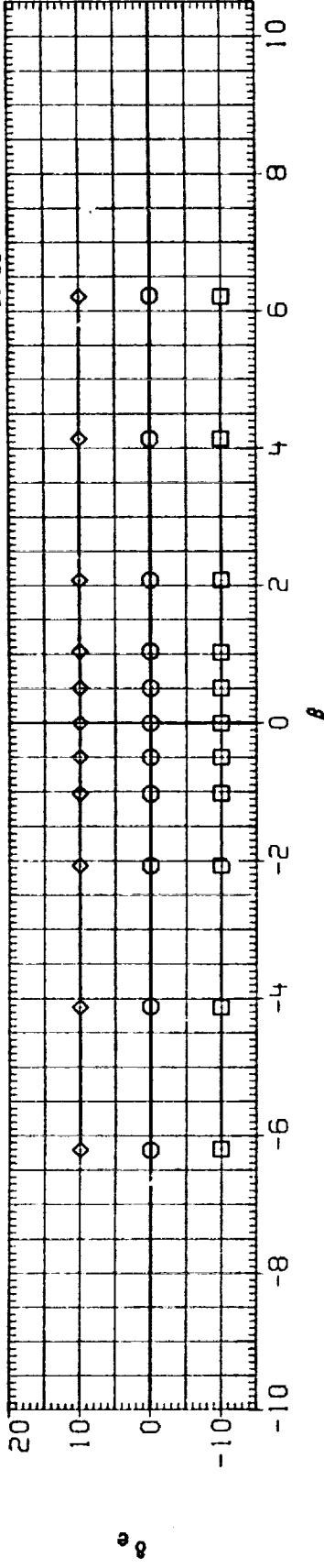


FIG. 22 EFFECT OF ELEVON IN SIDESLIP. ALPHA = 15

(A) MACH = .90

| | | | | | | |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK079) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 15.000 | 4.500 | SREF 2690.0000 50.FT. |
| (RUK064) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 15.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK093) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 15.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

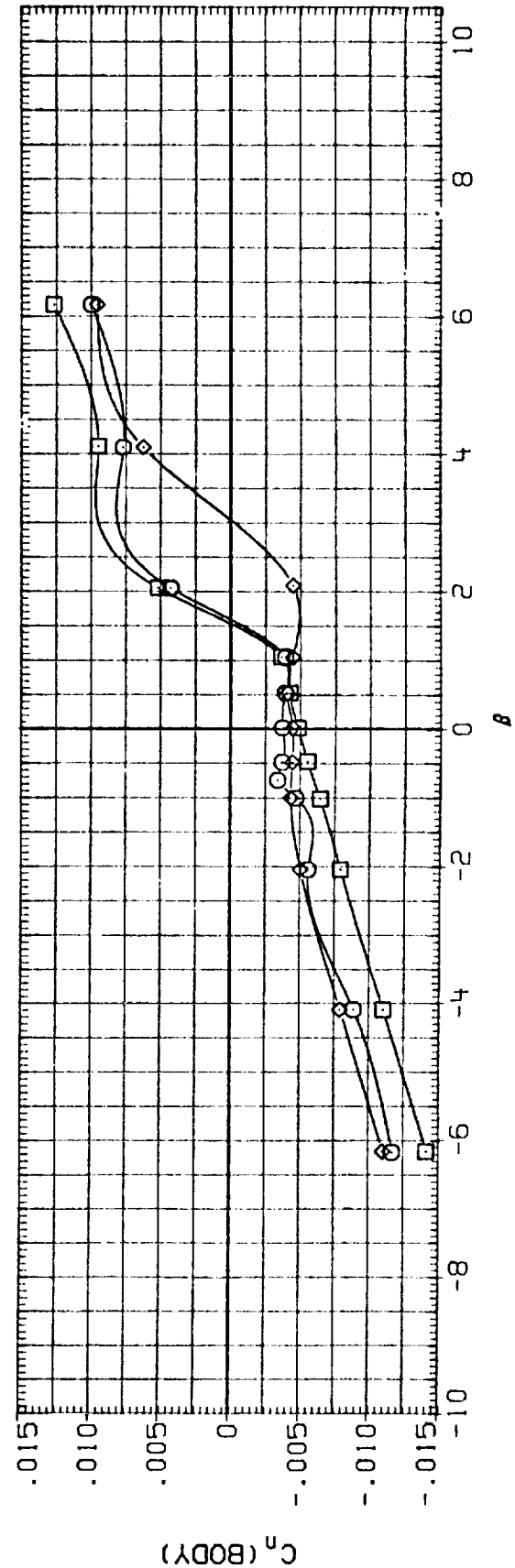
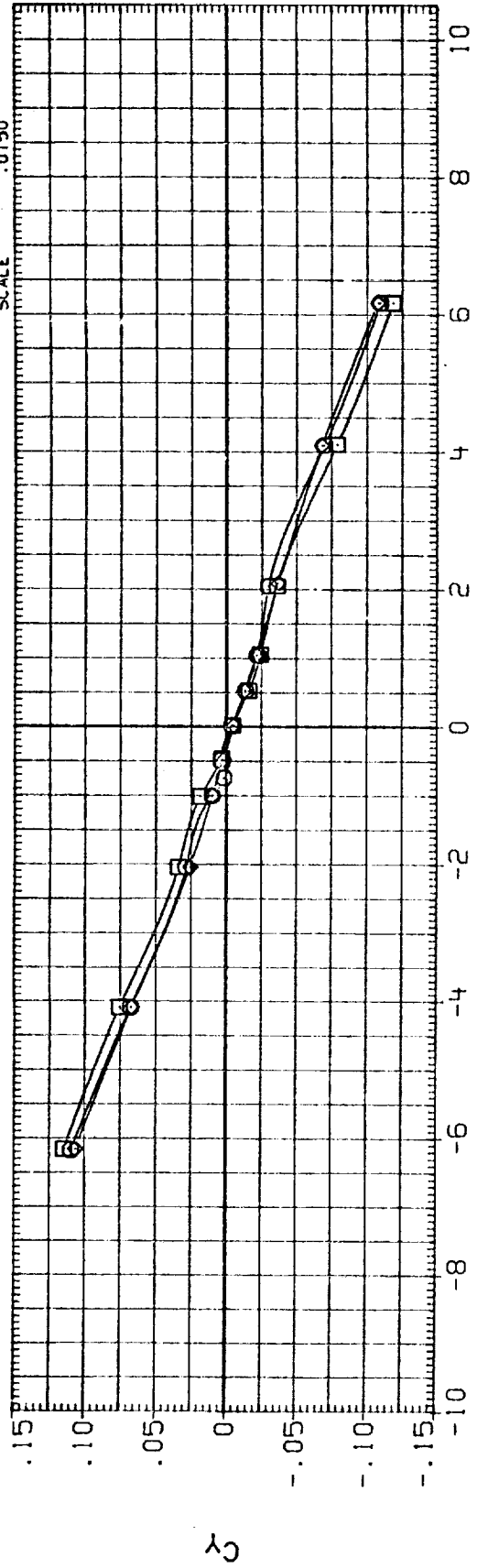


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

DATA SET SYMBOL CONFIGURATION DESCRIPTION

| | | |
|----------|---|--|
| (RUK079) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK084) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK093) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |

ELEVON AILRON ALPHA RN/L

| | | | |
|---------|--------|--------|-------|
| ELEVON | AILRON | ALPHA | RN/L |
| .000 | .000 | 15.000 | 4.500 |
| -10.000 | .000 | 15.000 | 4.500 |
| 10.000 | .000 | 15.000 | 4.500 |

REFERENCE INFORMATION

| | | |
|-------|-----------|--------|
| SREF | 2690.0000 | SO.FT. |
| LREF | 474.8000 | INCHES |
| BREF | 936.6800 | INCHES |
| XMRP | 1076.7000 | IN. XO |
| YMRP | .0000 | IN. YO |
| ZMRP | 375.0000 | IN. ZO |
| SCALE | .0150 | |

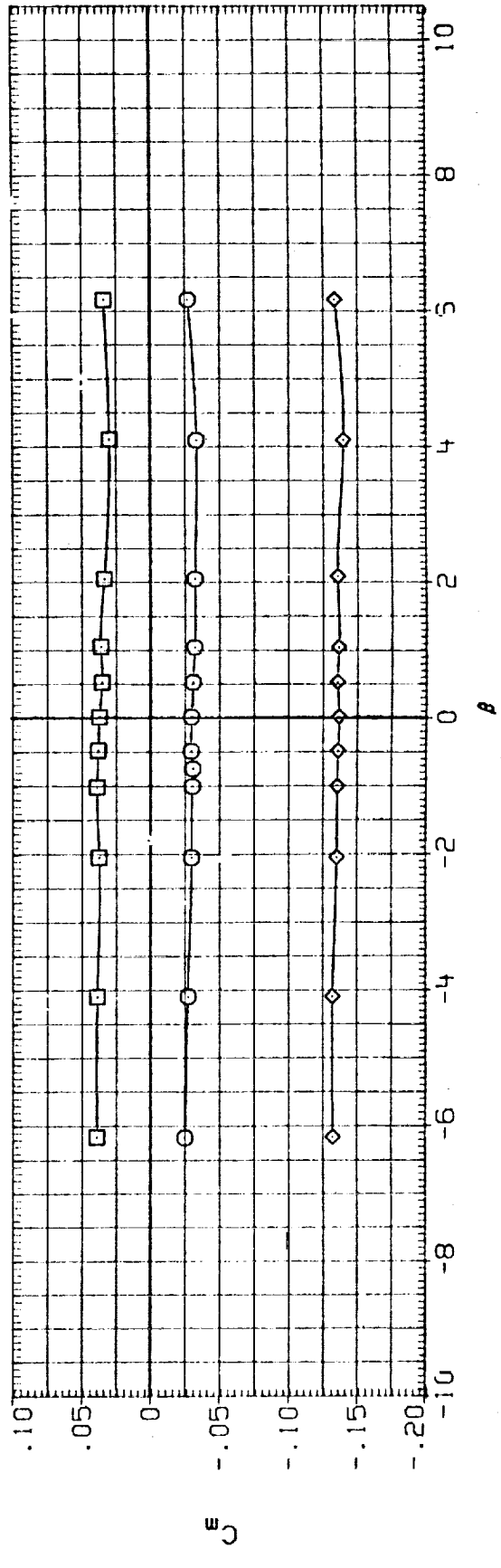
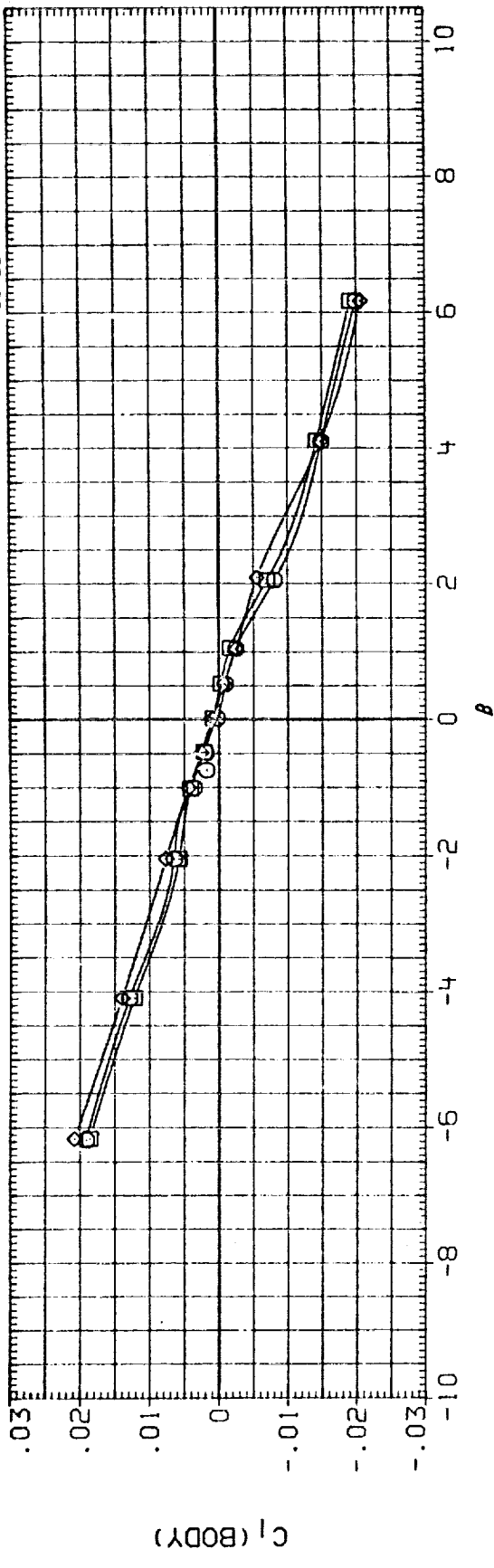


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A)MACH = .95

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AITLON | ALPHA | RN/L | REFERENCE INFORMATION |
|----------|--------|--|---------|--------|--------|-------|-----------------------|
| (RUK079) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 15.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK064) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 15.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK093) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 15.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | | XMPP 1076.7000 IN. XO |
| | | | | | | | YMPP .0000 IN. YO |
| | | | | | | | ZMPP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

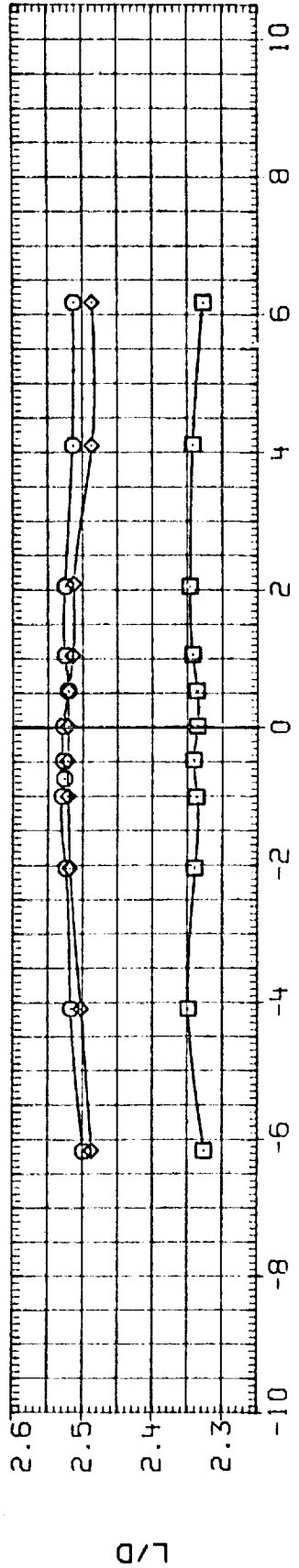
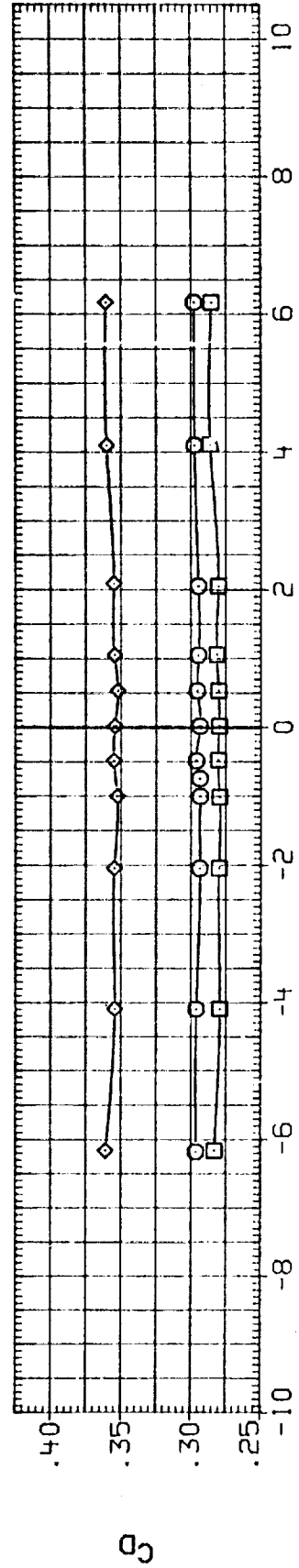
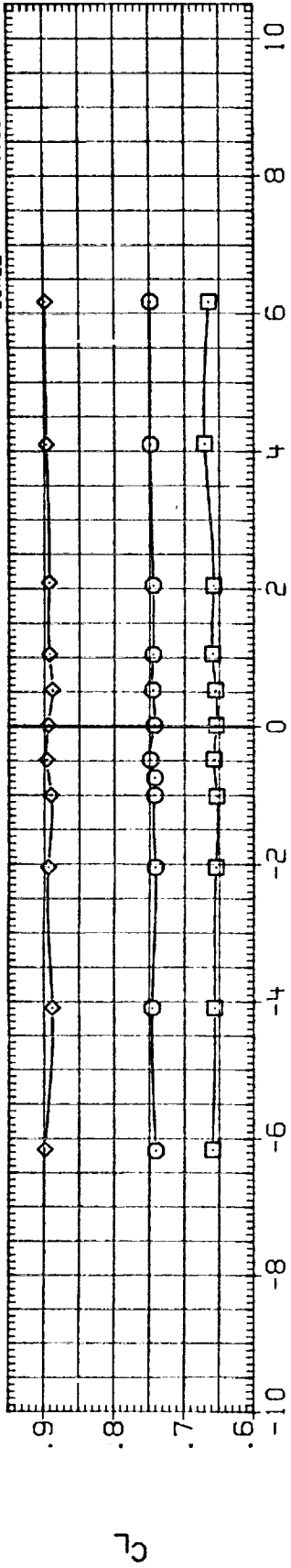


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILTRON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|---------|--------|-------|-----------------------|
| (CUK079) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 15.000 | 4.500 | SREF 2690.0000 SO.FT. |
| (CUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 15.000 | 4.500 | LREF 474.8000 INCHES |
| (CUK093) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 15.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | YMRP 1076.7000 IN. XO |
| | | | | | | ZMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

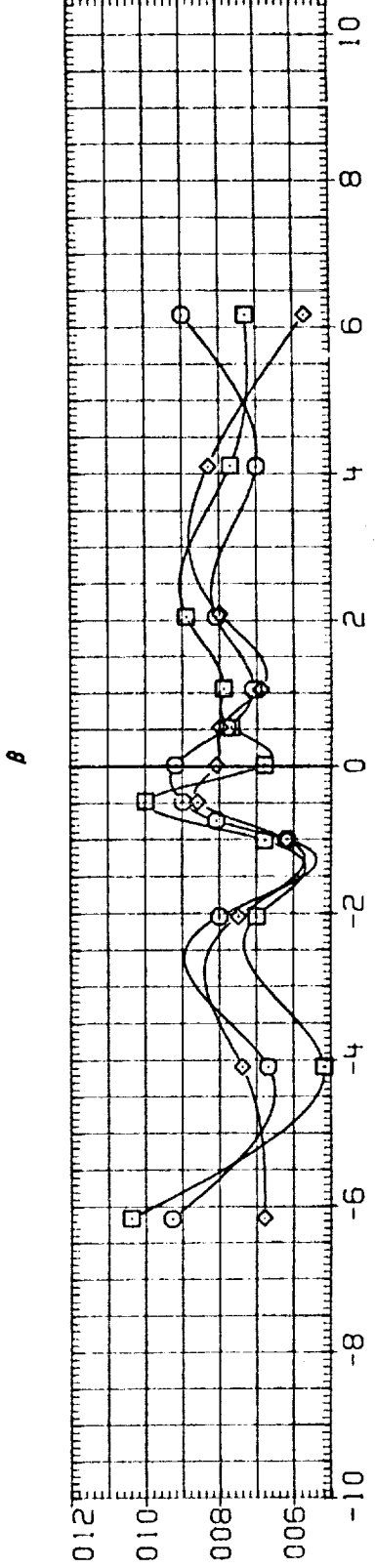
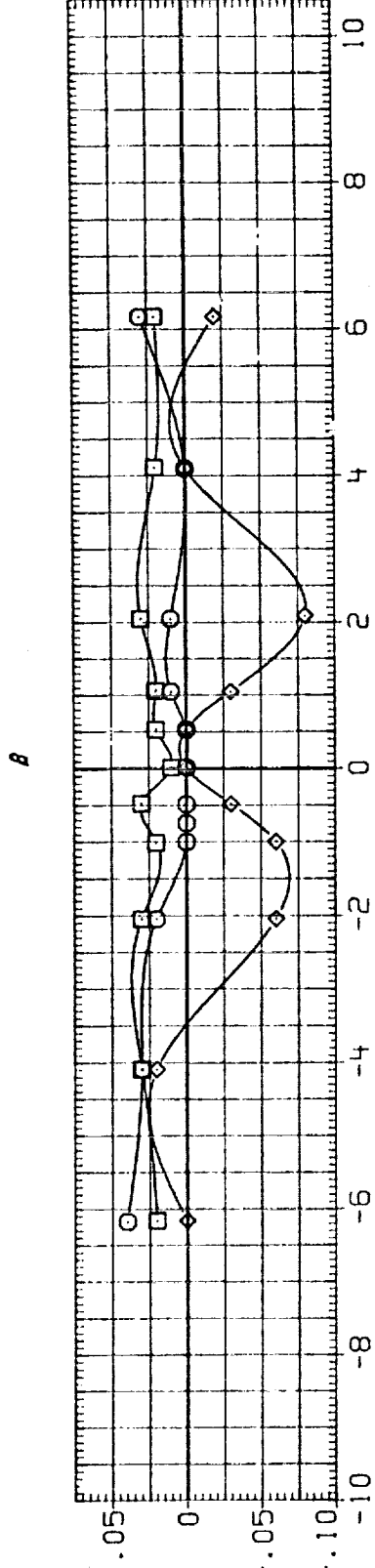
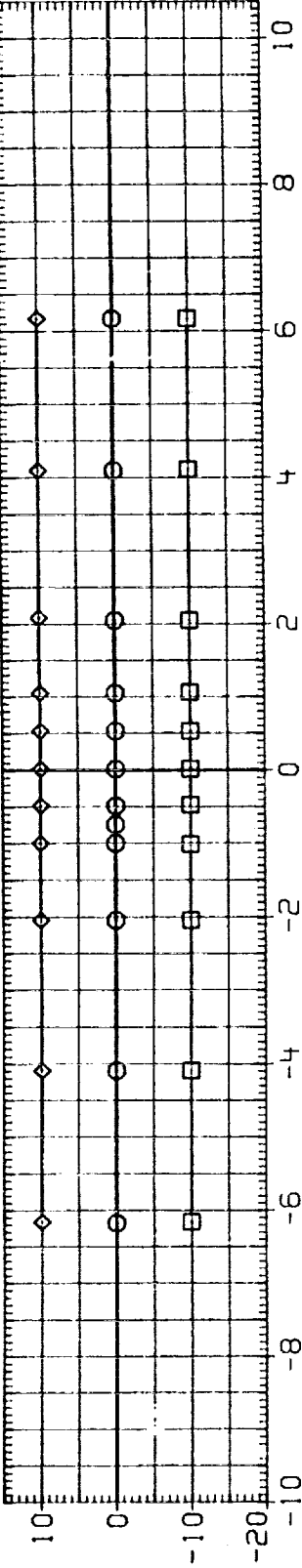


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

| | | |
|----------|---|--|
| (RUK079) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK064) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (RUK093) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |

ELEVON AILIRON ALPHA RN/L

| | | | |
|---------|------|--------|-------|
| .000 | .000 | 15.000 | 4.500 |
| -10.000 | .000 | 15.000 | 4.500 |
| 10.000 | .000 | 15.000 | 4.500 |

REFERENCE INFORMATION

| | | |
|-------|-----------|--------|
| SREF | 2690.0000 | SQ.FT. |
| LREF | 474.8000 | INCHES |
| BREF | 936.6800 | INCHES |
| XMRP | 1076.7000 | IN. XO |
| YMRP | .0000 | IN. YO |
| ZMRP | 375.0000 | IN. ZO |
| SCALE | .0150 | |

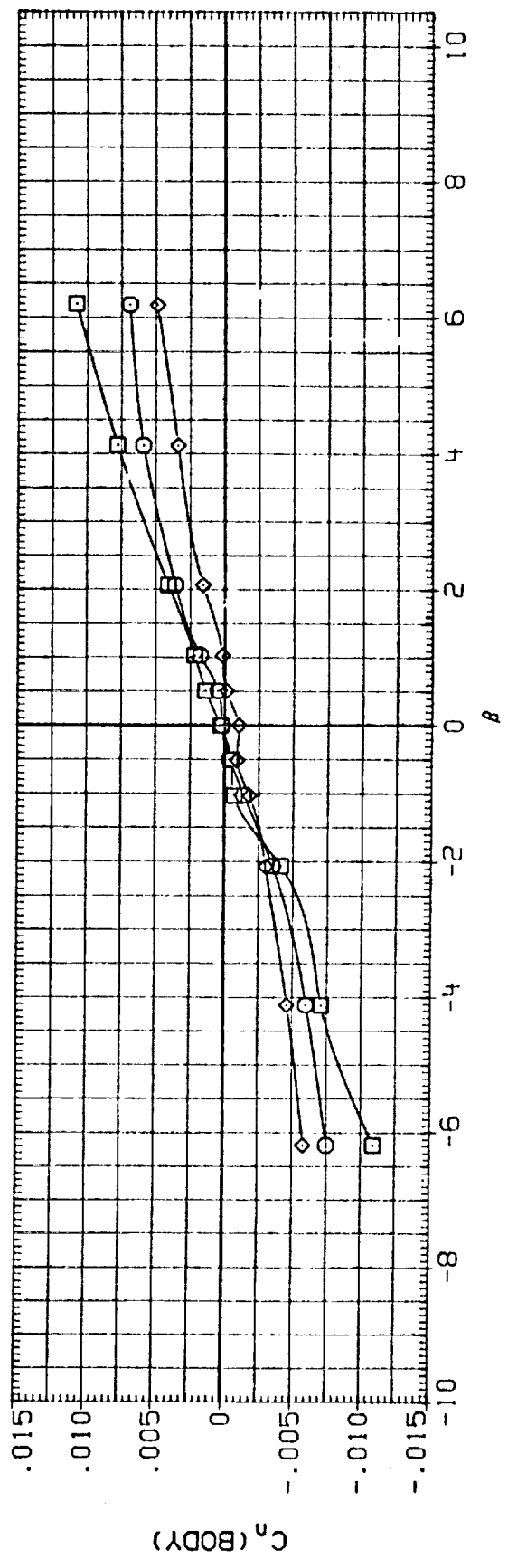
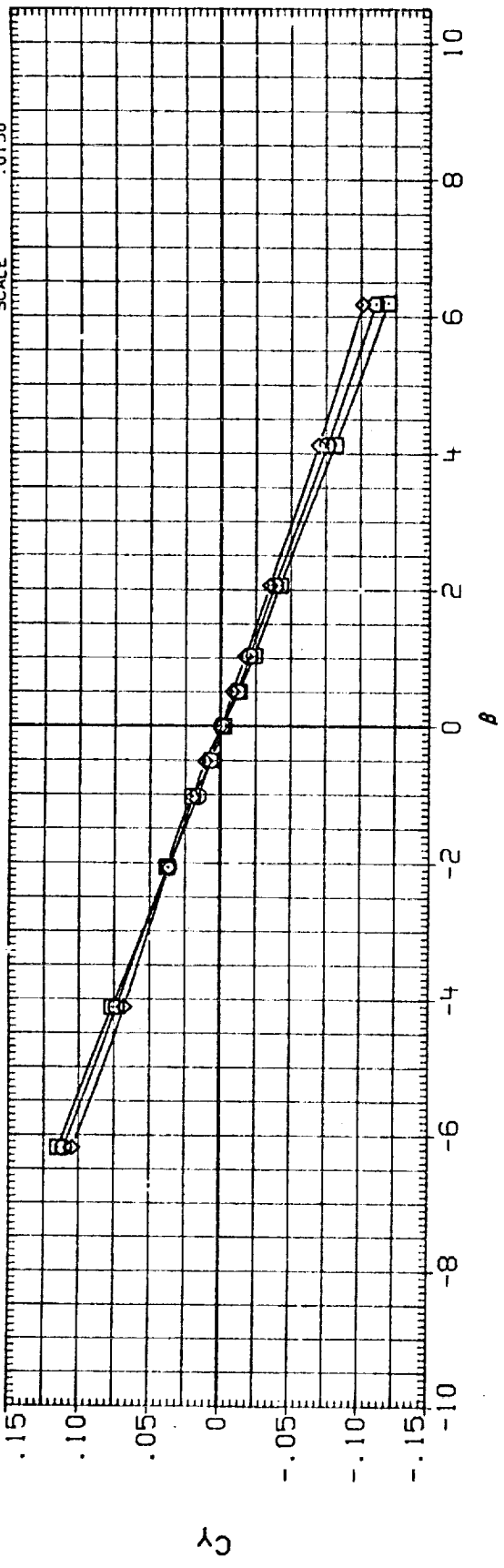


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A)MACH = 1.05

| | | | | | | |
|-----------------|--|---------|---------|--------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK079) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 15.000 | 4.500 | SREF 2690.0000 SO.FT. |
| (RUK064) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 15.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK093) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 15.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | YMRP 1076.7000 IN. XO |
| | | | | | | ZMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

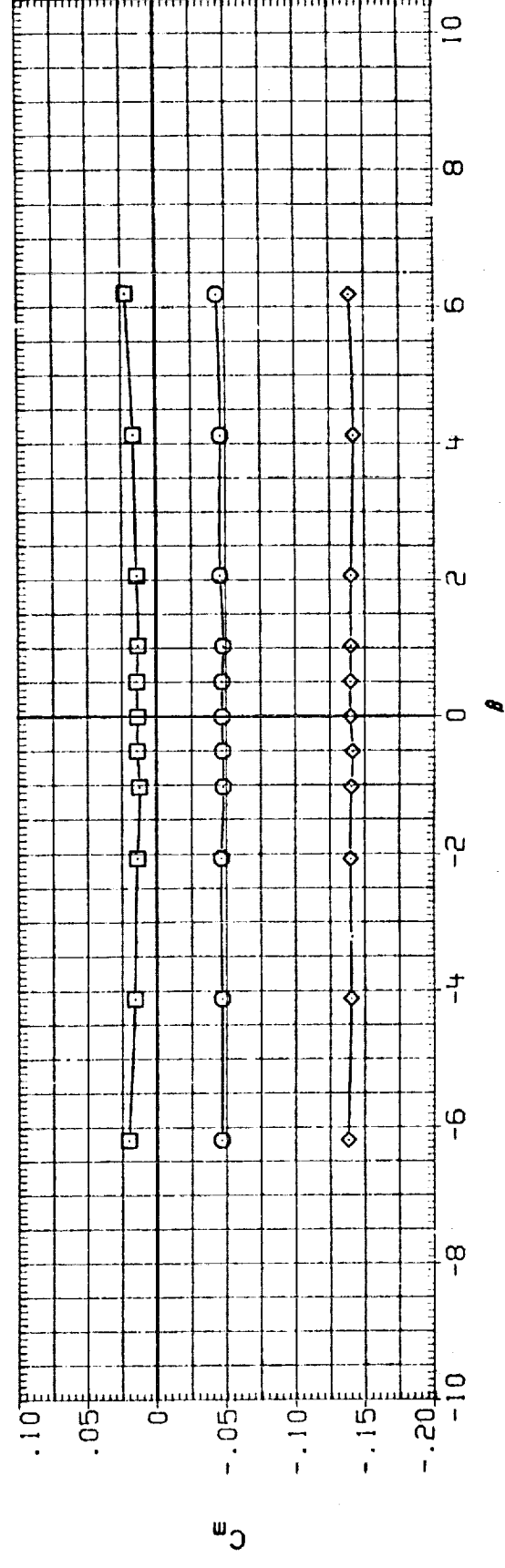
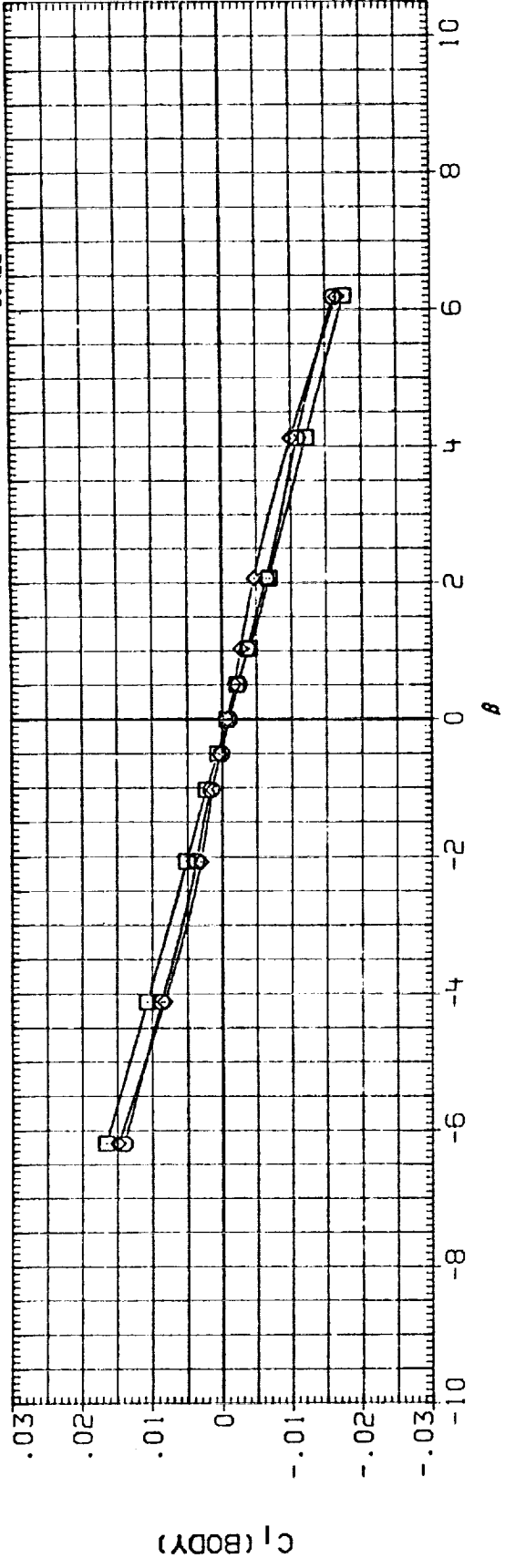


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = 1.05

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | A1LRON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| (RUK079) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 15.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 15.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK093) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 15.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

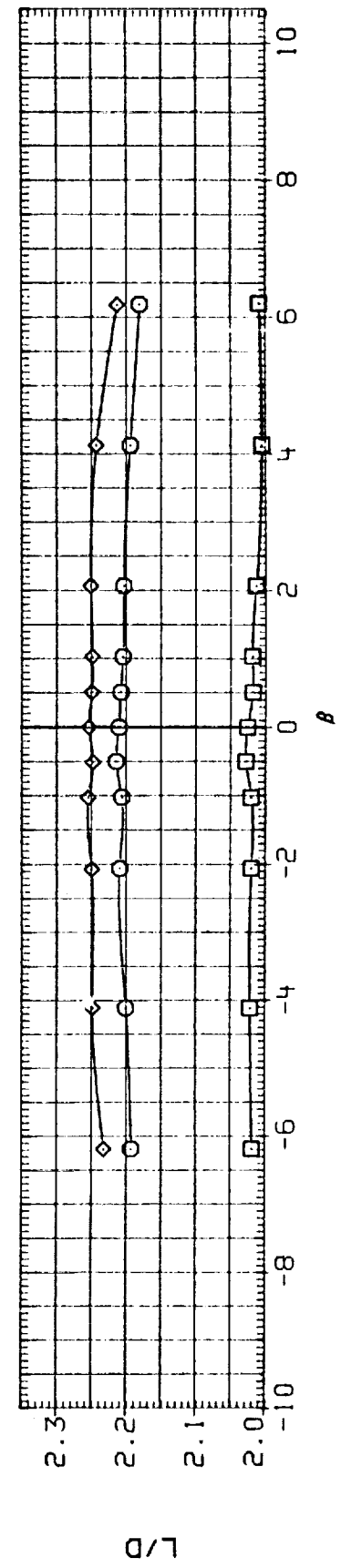
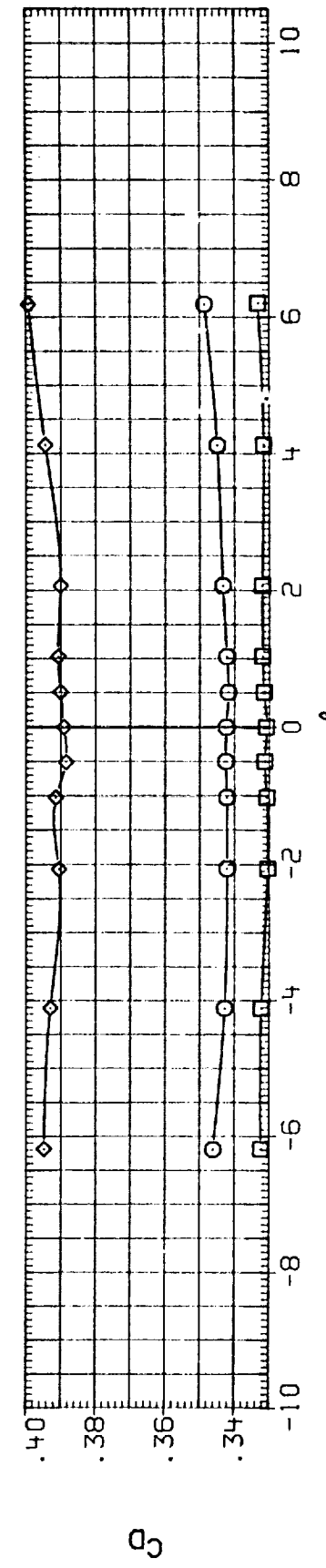
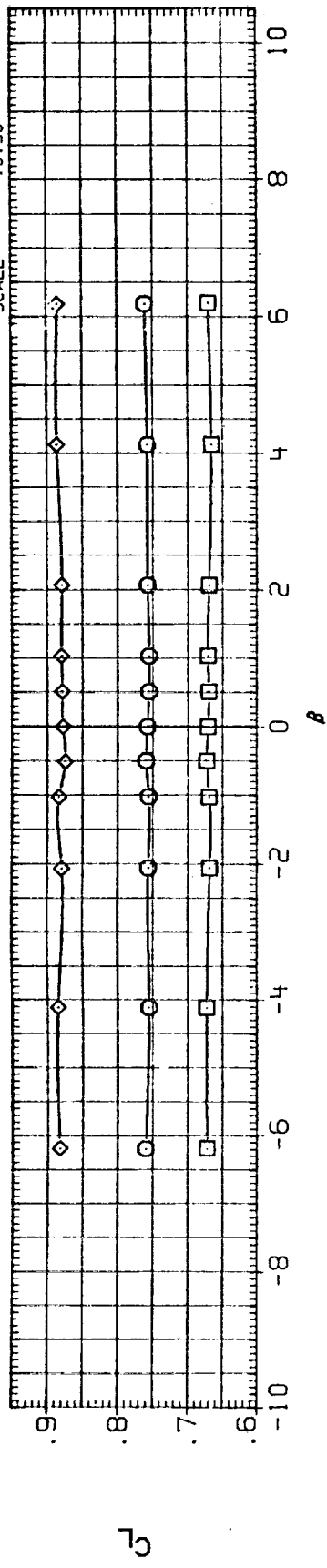


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A)MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION

- (CUK079) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (CUK084) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (CUK093) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RN/L

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

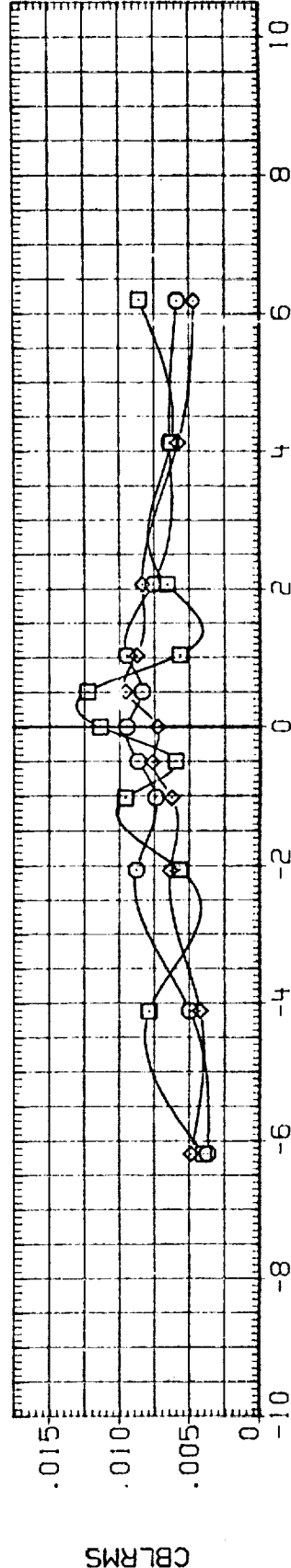
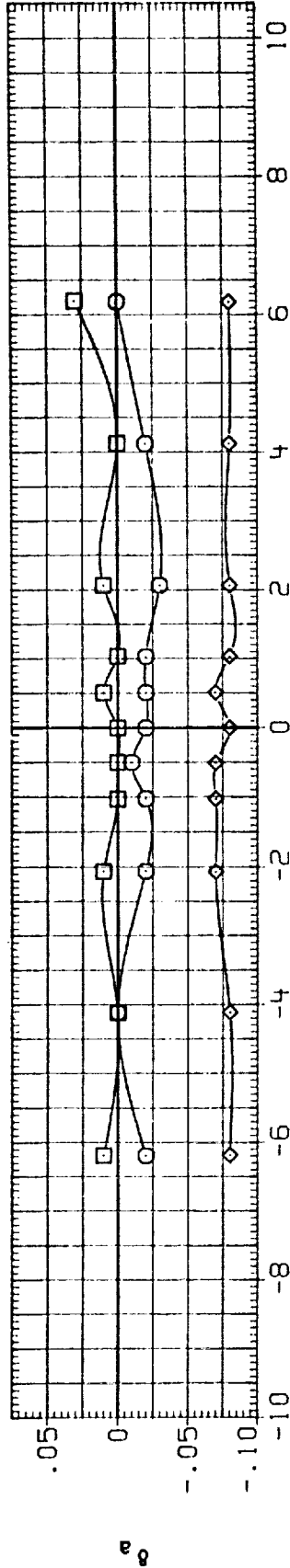
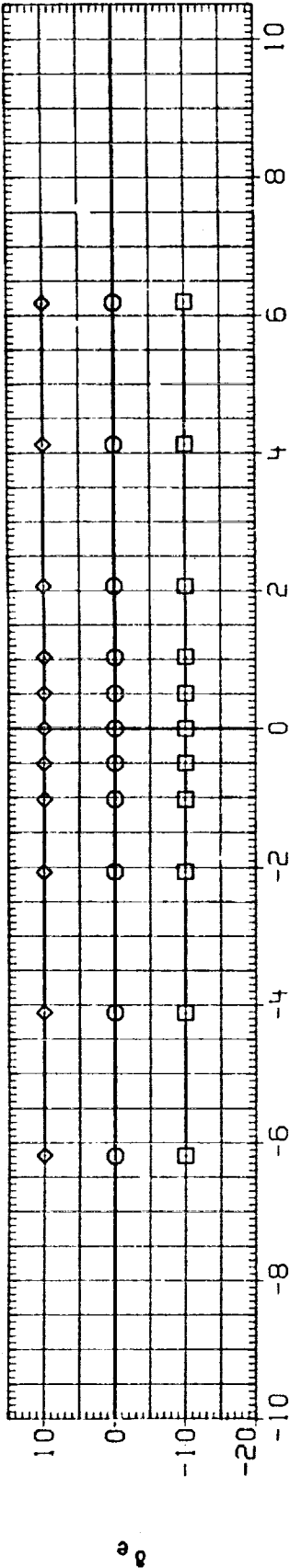


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = 1.05

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
|----------|--------|--|---------|--------|--------|-------|-----------------------|
| (RUK080) | ○ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 15.000 | 4.000 | SREF 2690.0000 SQ.FT. |
| (RUK085) | □ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 15.000 | 4.000 | LREF 474.8000 INCHES |
| (RUK094) | ◇ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 15.000 | 4.000 | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

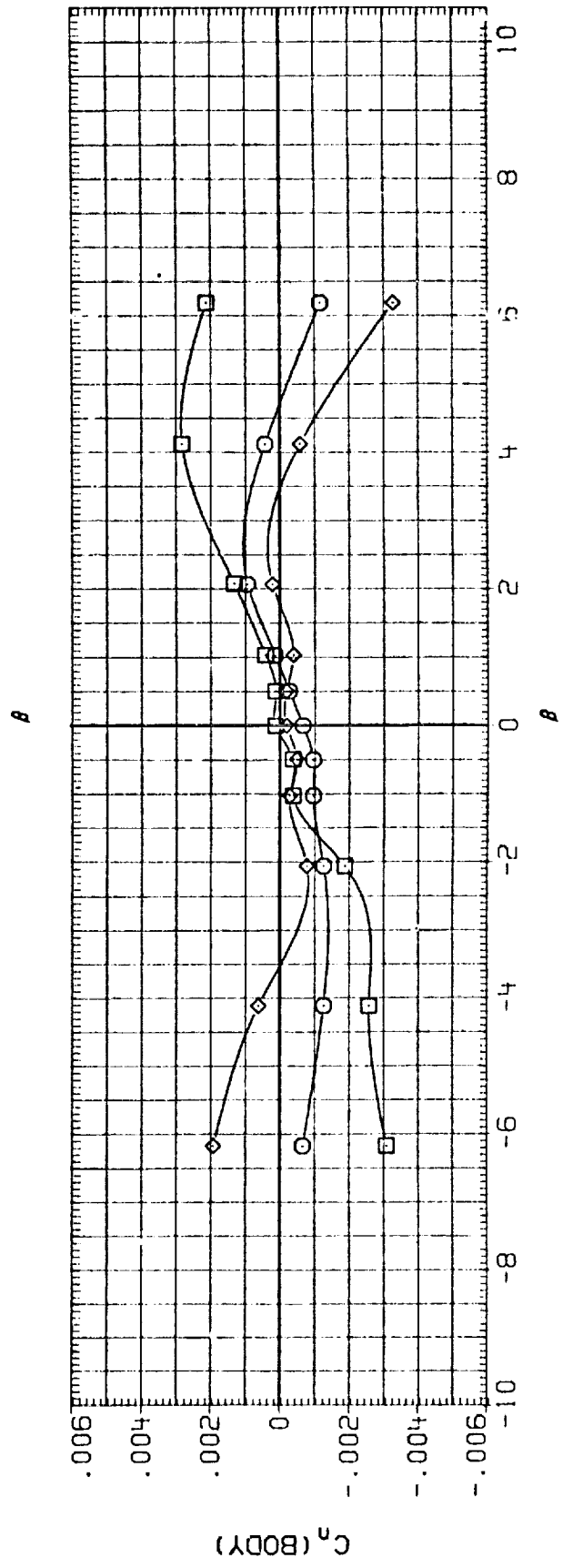
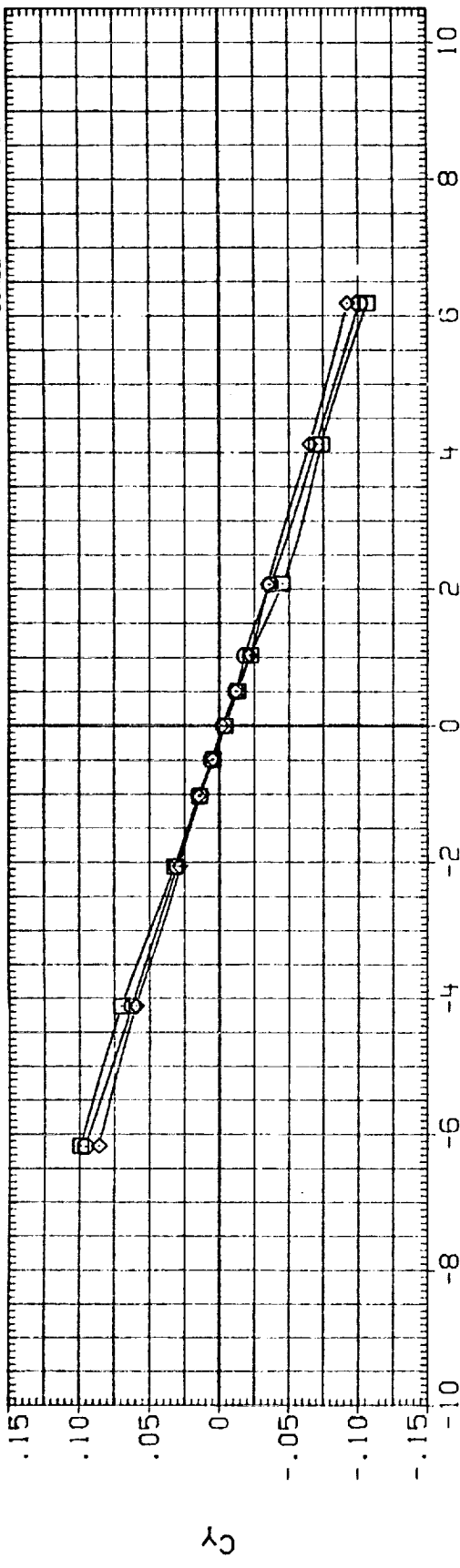


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK080) \square LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK065) \square LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK094) \diamond LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AIRLON ALPHA RN/L

.000 .000 15.000 4.000

-10.000 .000 15.000 4.000

10.000 .000 15.000 4.000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

YMRP 1076.7000 IN. XO

ZMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

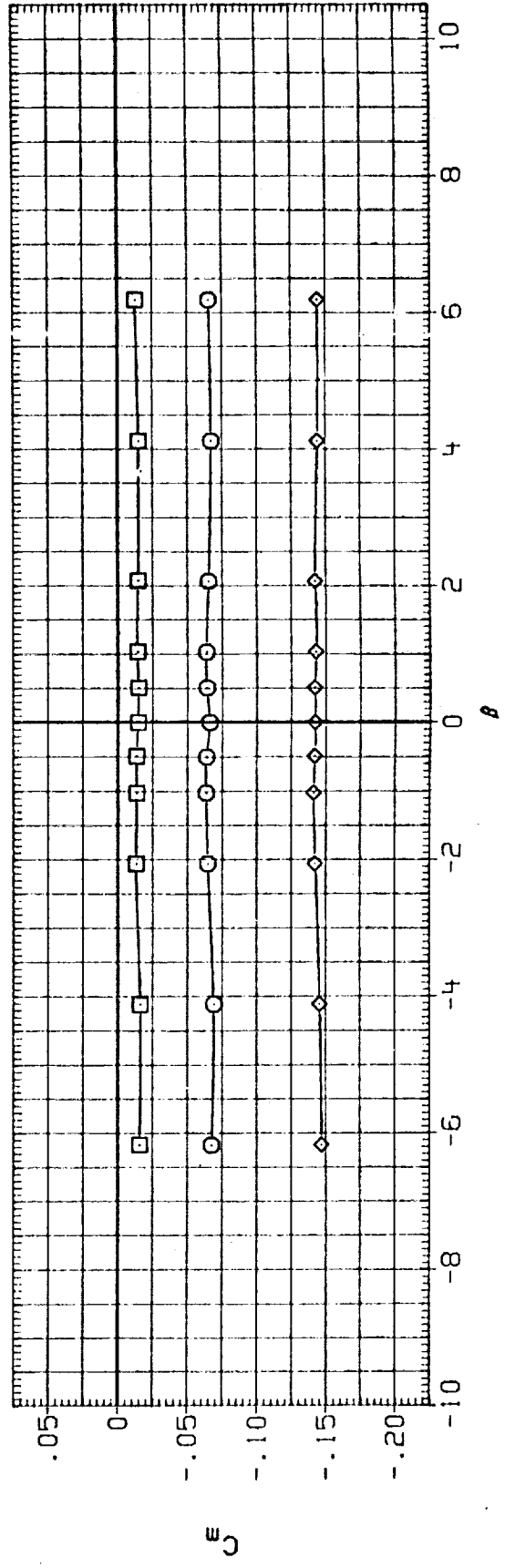
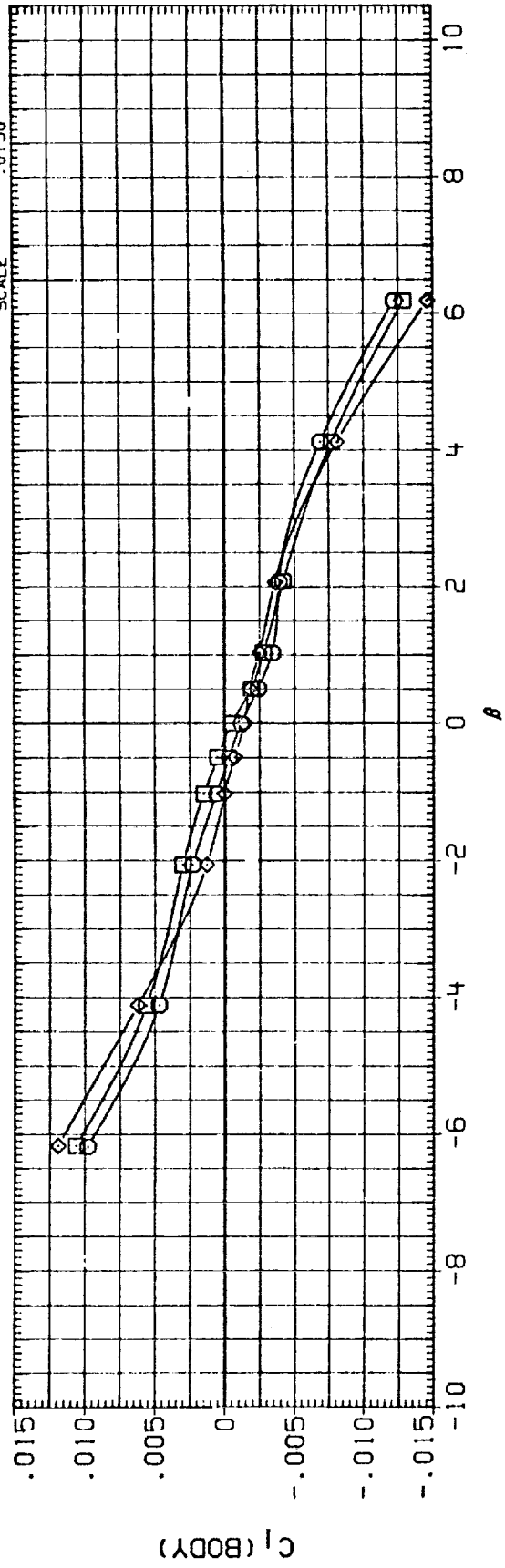


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = 1.20

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| (RUK080) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 15.000 | 4.000 | SREF 2690.0000 SO.FT. |
| (RUK085) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 15.000 | 4.000 | LREF 474.8000 INCHES |
| (RUK094) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 15.000 | 4.000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

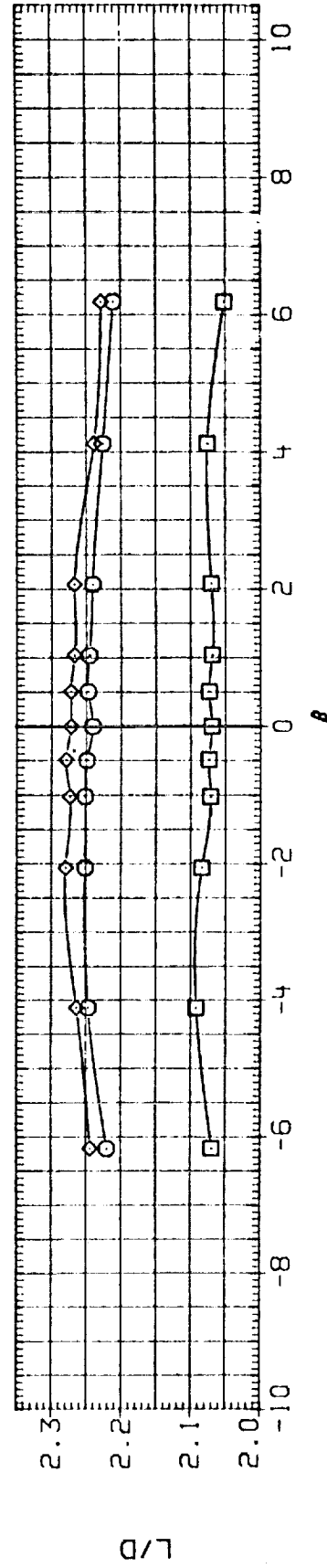
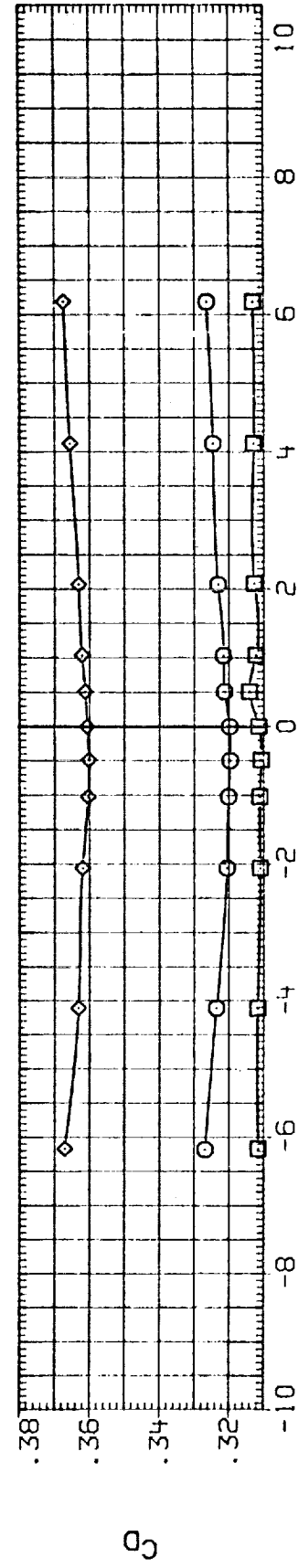
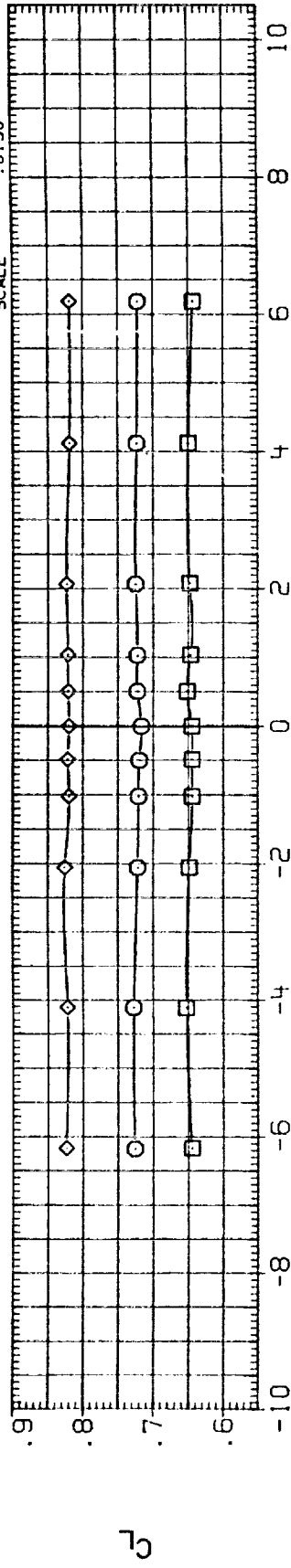


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK080) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK085) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK094) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AIRLON ALPHA RN/L

.000 .000 15.000 4.000

-10.000 .000 15.000 4.000

10.000 .000 15.000 4.000

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.

LR:F 474.8000 INCHES

BREF 936.6800 INCHES

XMRRP 1076.7000 IN. XO

YMRRP .0000 IN. YO

ZMRRP 375.0000 IN. ZO

SCALE .0150

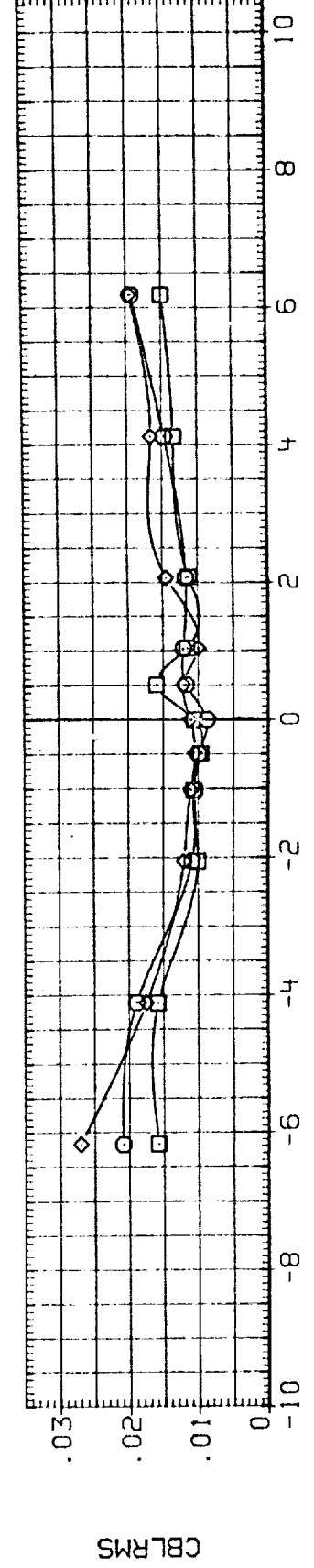
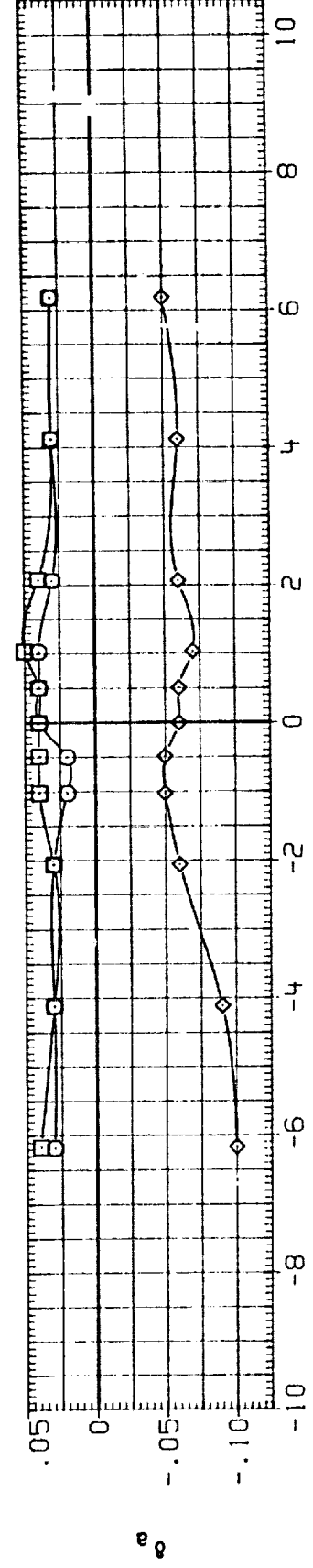
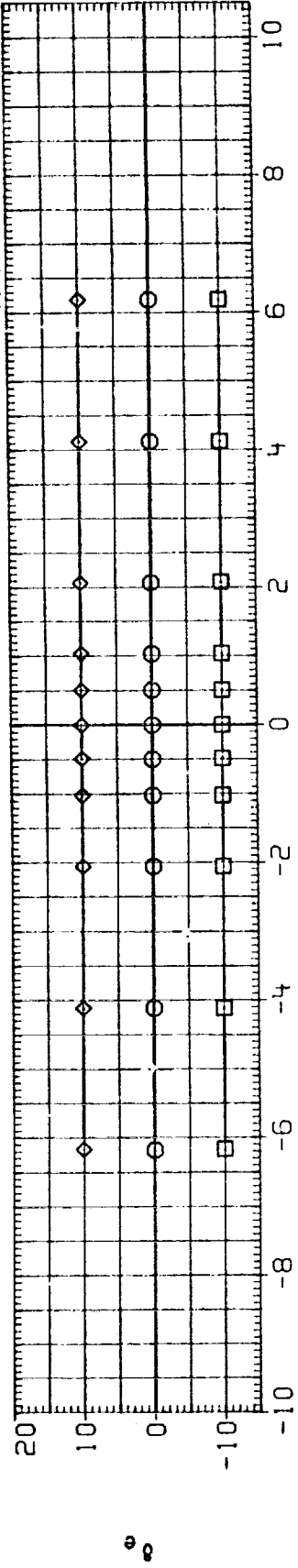


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK084) ○ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK066) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK095) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

ELEVON AILRON ALPHA RV/L

.000 .000 20.000 4.500

-10.000 .000 20.000 4.500

10.000 .000 20.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

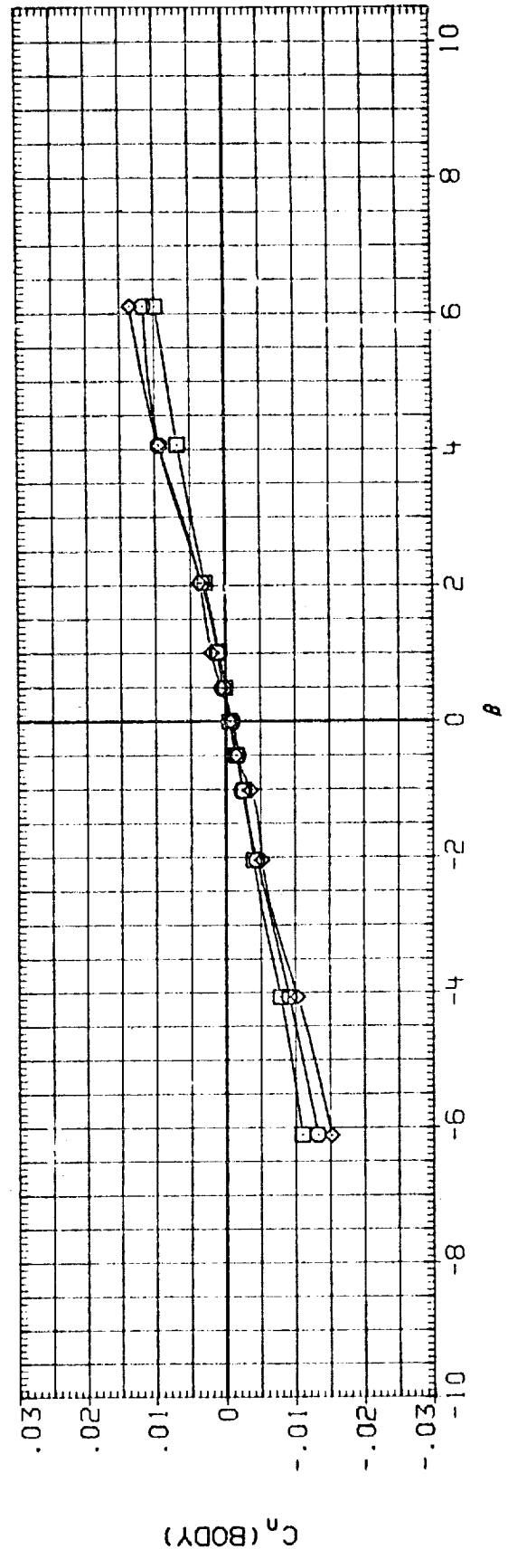
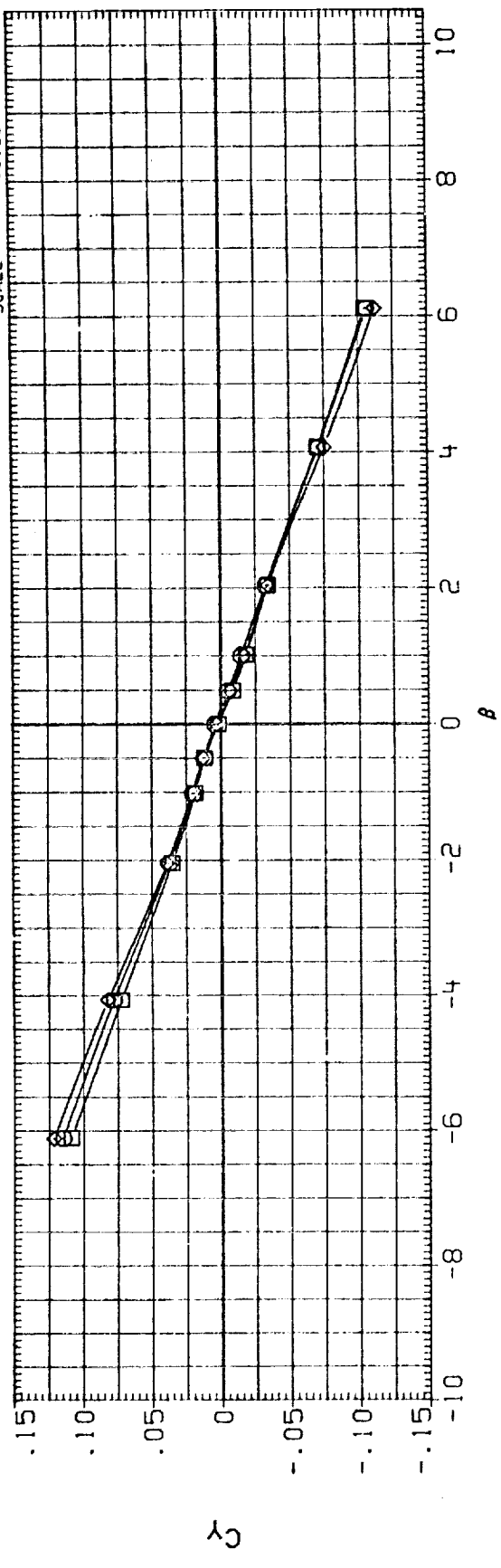


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

| REFERENCE INFORMATION | |
|-----------------------|-----------|
| SREF | 2690.0000 |
| LREF | 474.8000 |
| BREF | 936.6800 |
| XMRP | 1076.7000 |
| YMRP | .0000 |
| ZMRP | 375.0000 |
| SCALE | .0150 |

| CONFIGURATION DESCRIPTION | |
|---------------------------|---------------------------------------|
| LA70 | BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| LA70 | BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| LA70 | BASELINE NO. 3 (GAPS SEALED, GRIT ON) |

| ELEVON DATA | |
|-------------|----------|
| ELEVON | .000 |
| AILRON | .000 |
| ALPHA | 20.000 |
| RN/L | 4.500 |
| IN. X0 | 10.000 |
| IN. Y0 | .0000 |
| IN. Z0 | 375.0000 |

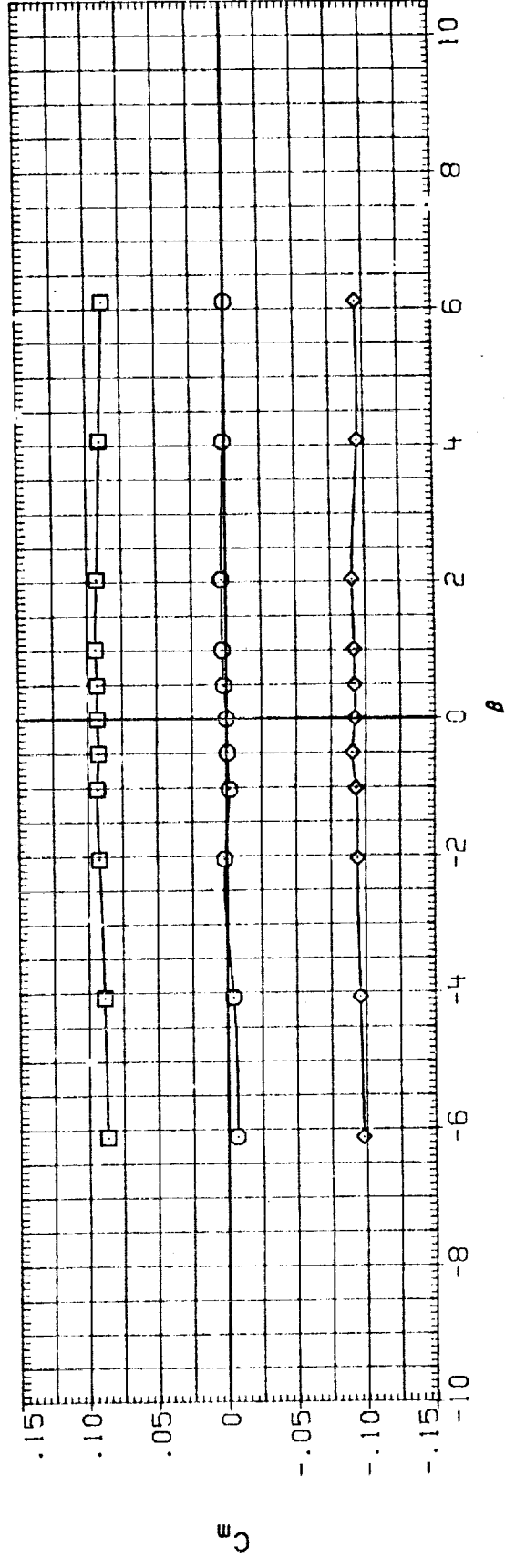
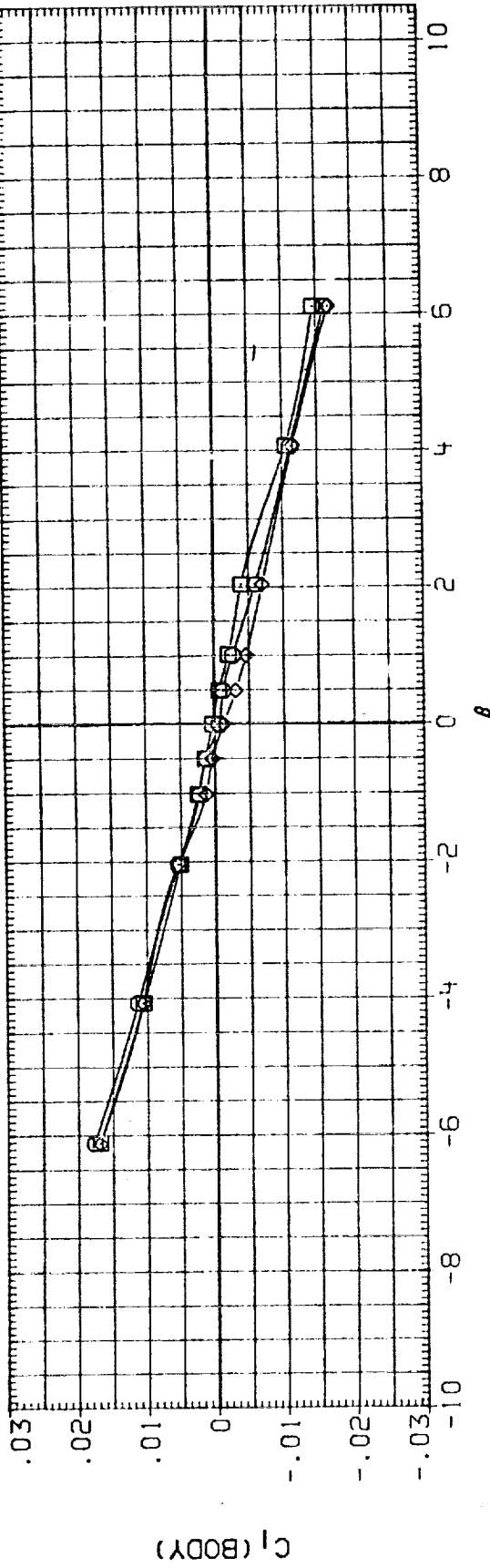


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = .60

| | | | | | | |
|-----------------|--|---------|---------|--------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILTRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK084) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 20.000 | 4.500 | SREF 2690.0000 SO.FT. |
| (RUK066) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 20.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK095) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 20.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

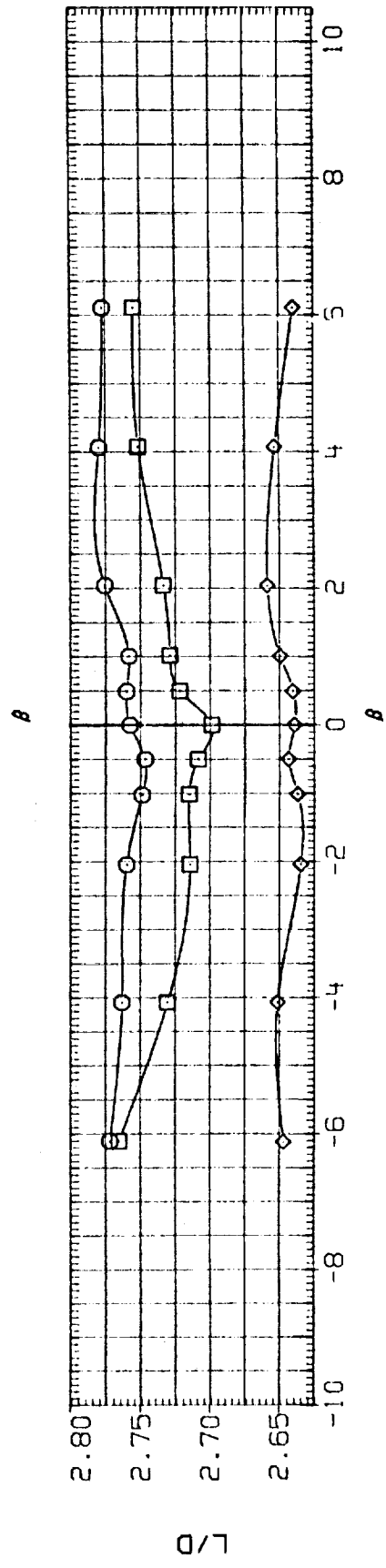
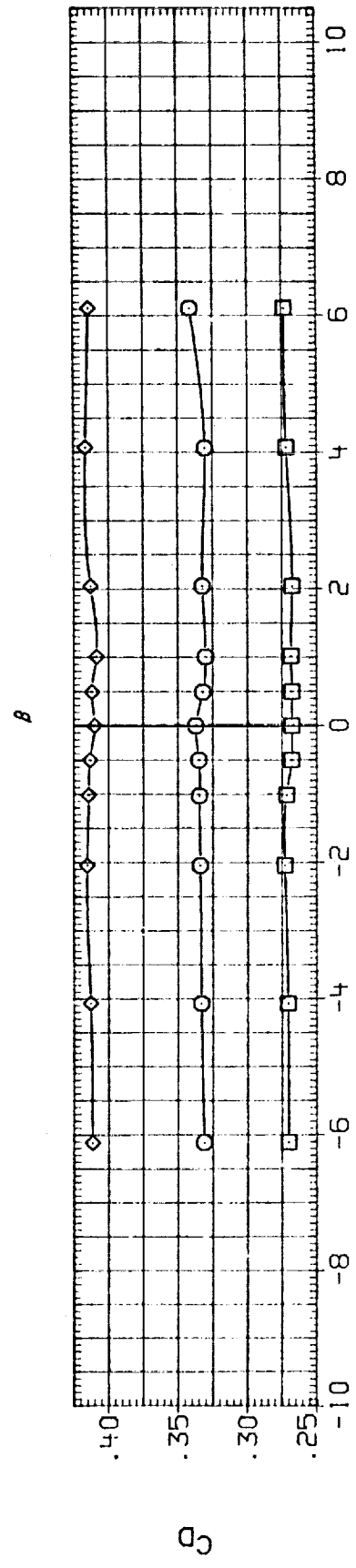
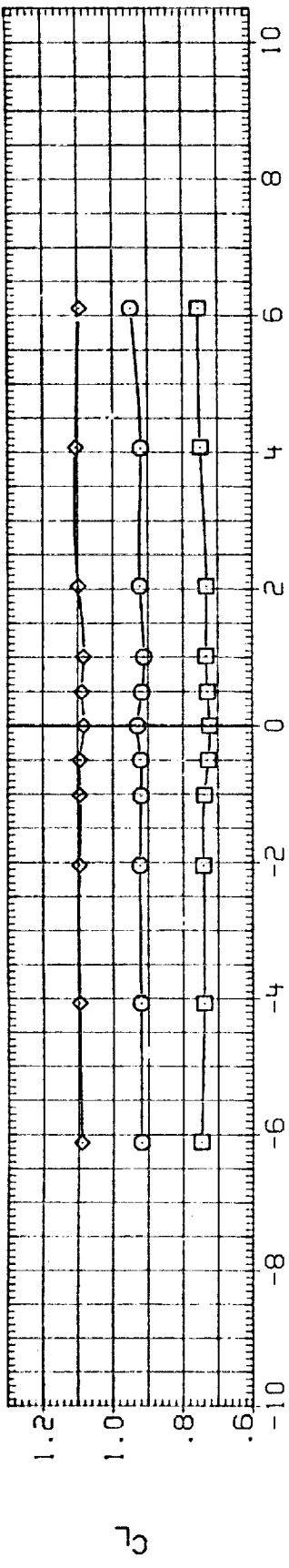


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK084) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK066) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK095) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILIRON ALPHA RN/L

.000 .000 20.000 4.500

-10.000 .000 20.000 4.500

10.000 .000 20.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

YMRP 1076.7000 IN. XO

ZMRP .0000 IN. YO

375.0000 IN. ZO

SCALE .0150

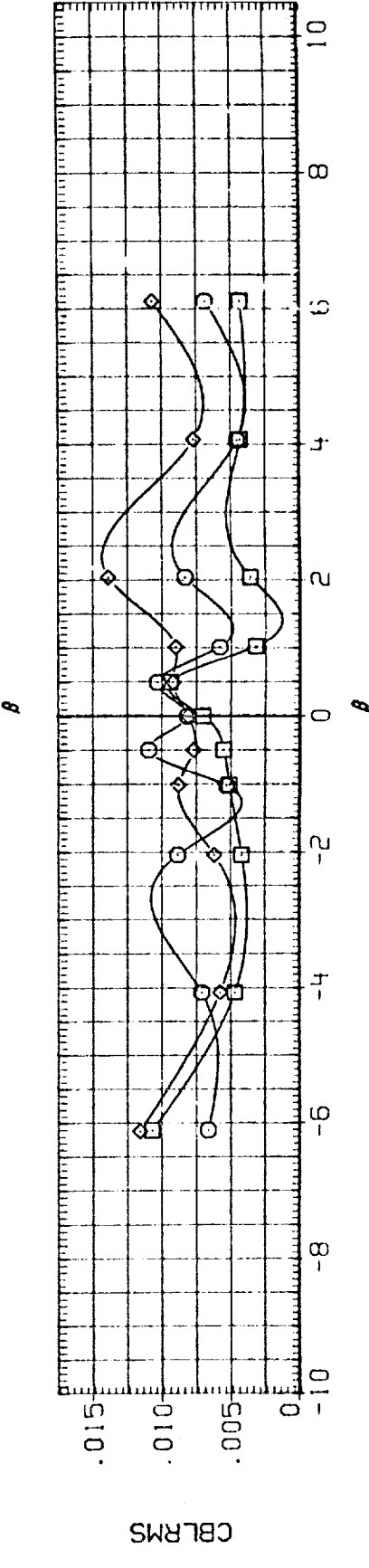
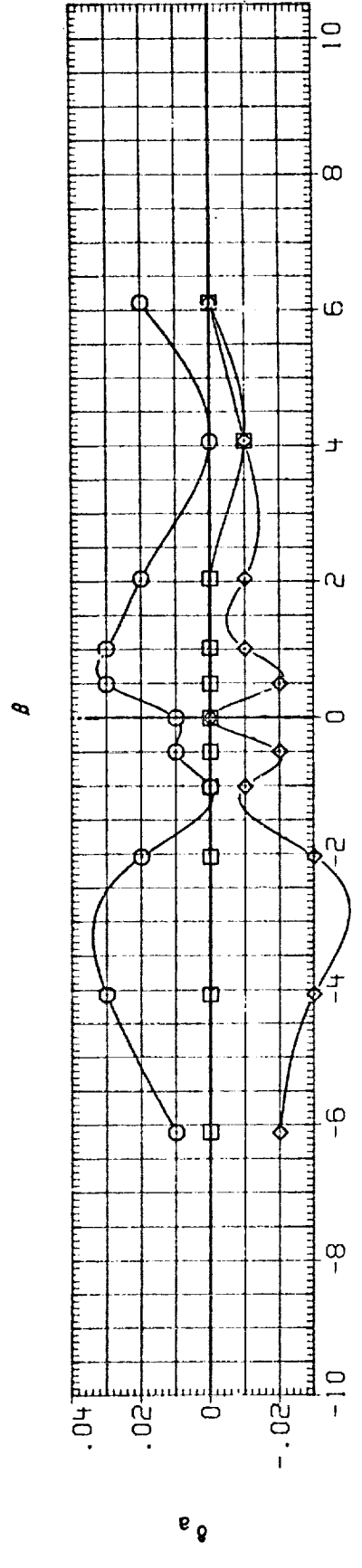
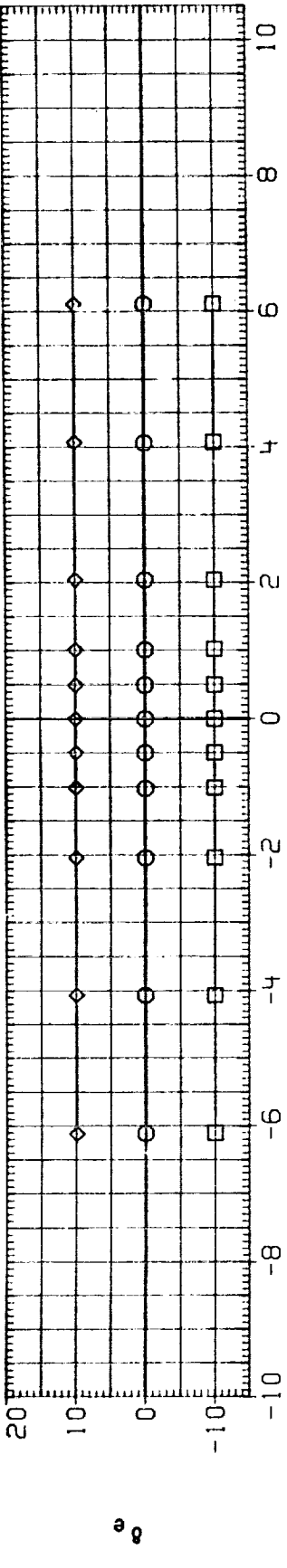


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A)MACH = .60

| | | | | | | |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | A:LRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK084) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 20.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK066) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .003 | 20.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK095) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 20.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XM:P 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

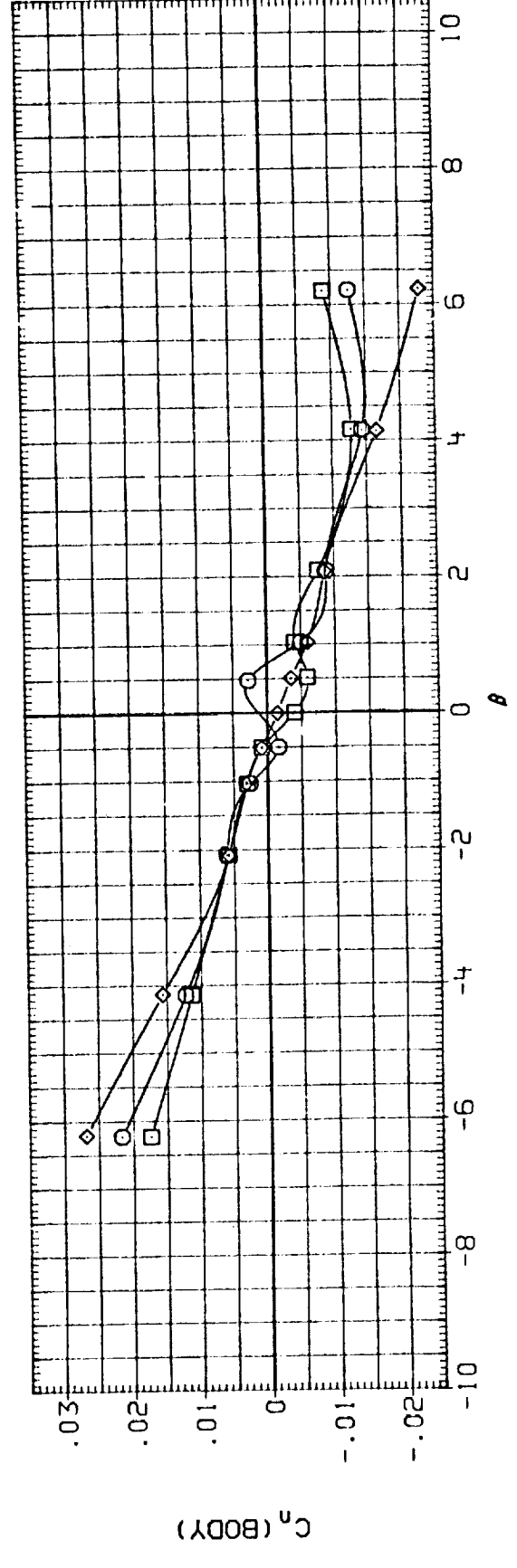
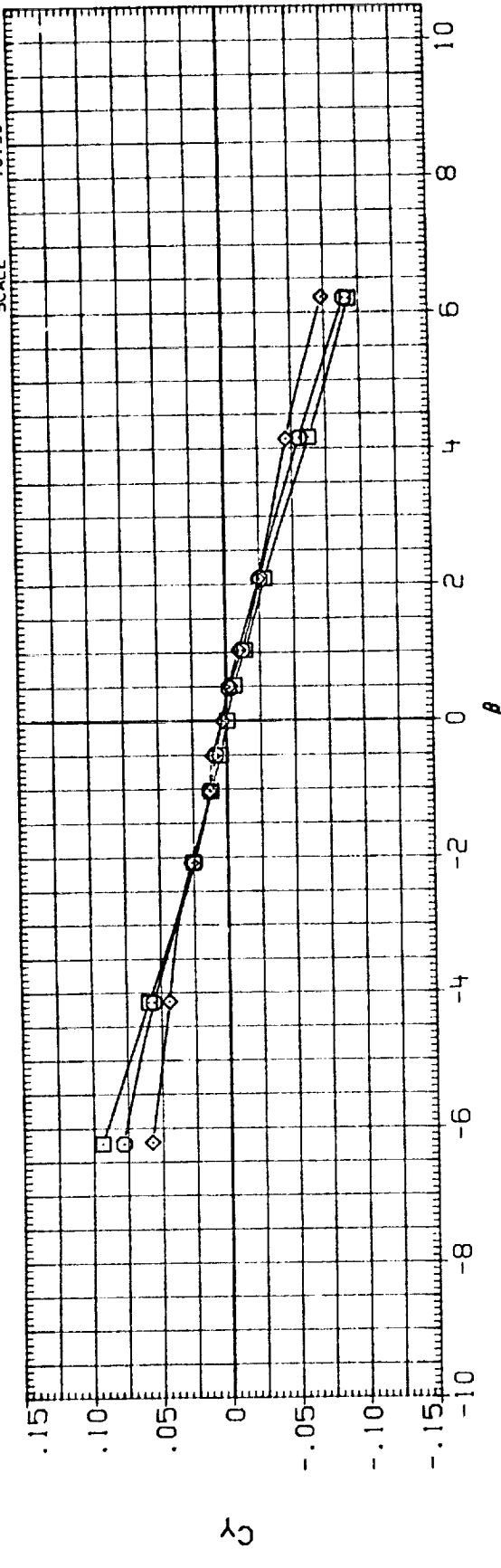


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK084) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK066) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK095) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RN/L

.000 .000 20.000 4.500

-10.000 .000 20.000 4.500

10.000 .000 20.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

YMPP 1076.7000 IN. X0

ZMPP .0000 IN. Y0

375.0000 IN. Z0

SCALE .0150

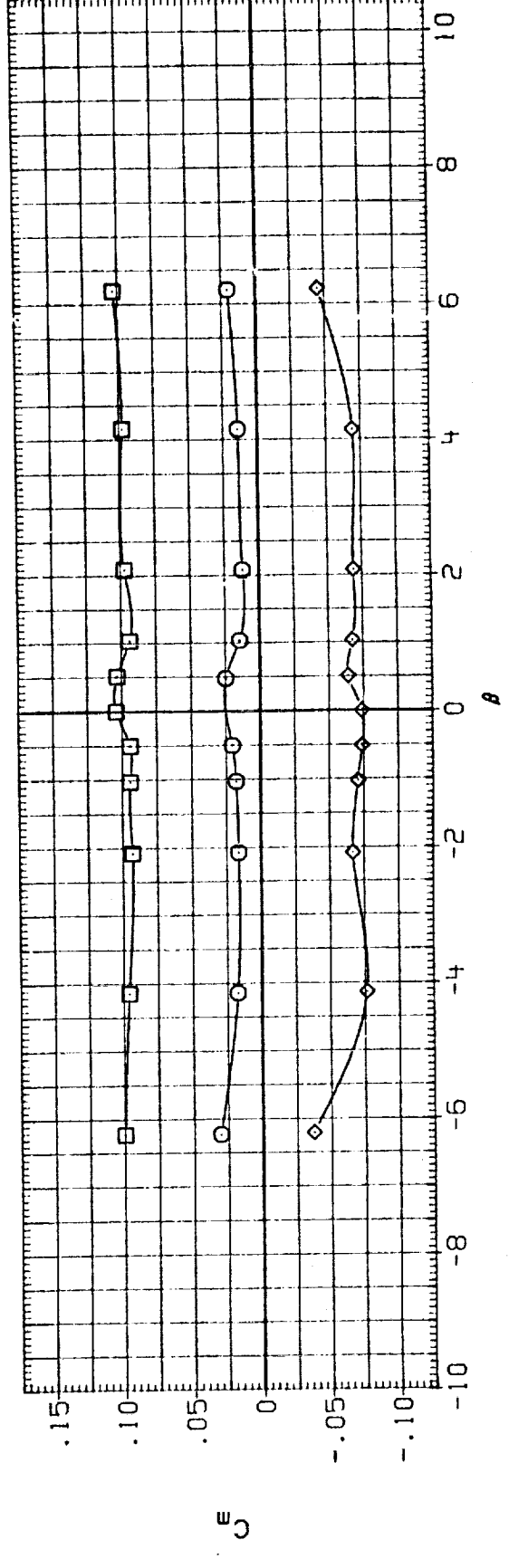
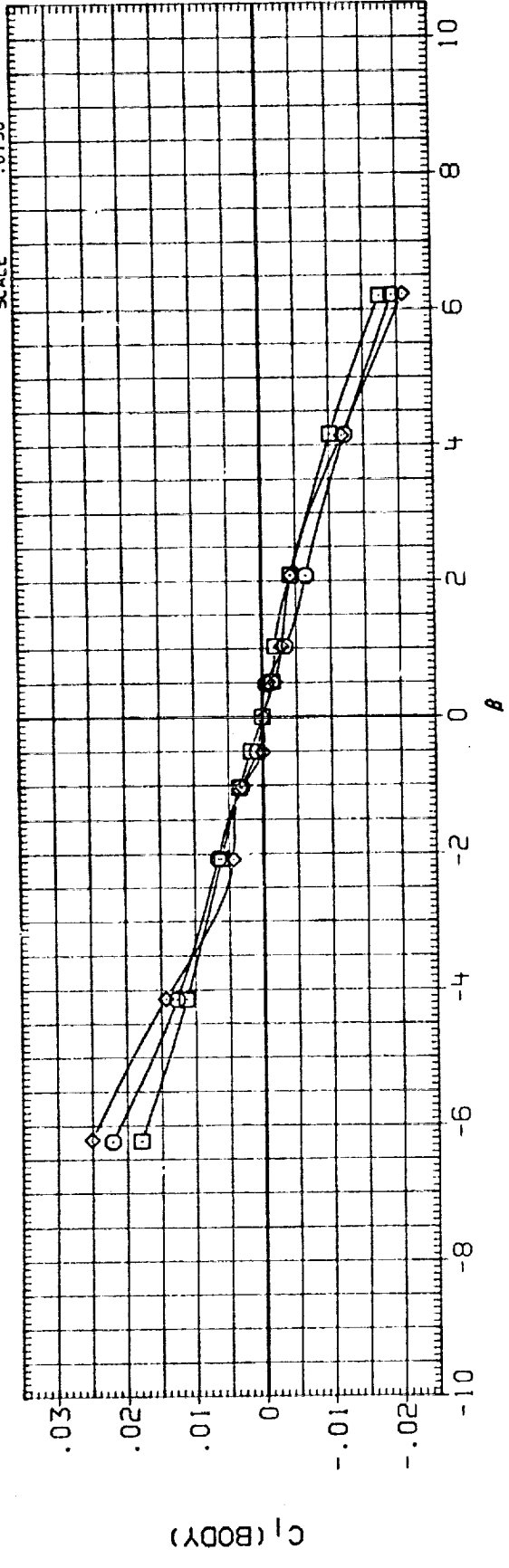


FIG. 23 EFFECT OF ELEVON IN SIDESLIP. ALPHA = 20

(A) MACH = .90

| | | | | | | |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AIRLON | ALPHA | RN/L | REFERENCE INFORMATION |
| (RUK084) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 20.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (RUK066) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 20.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK095) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 20.000 | 4.500 | BREF 936.8800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

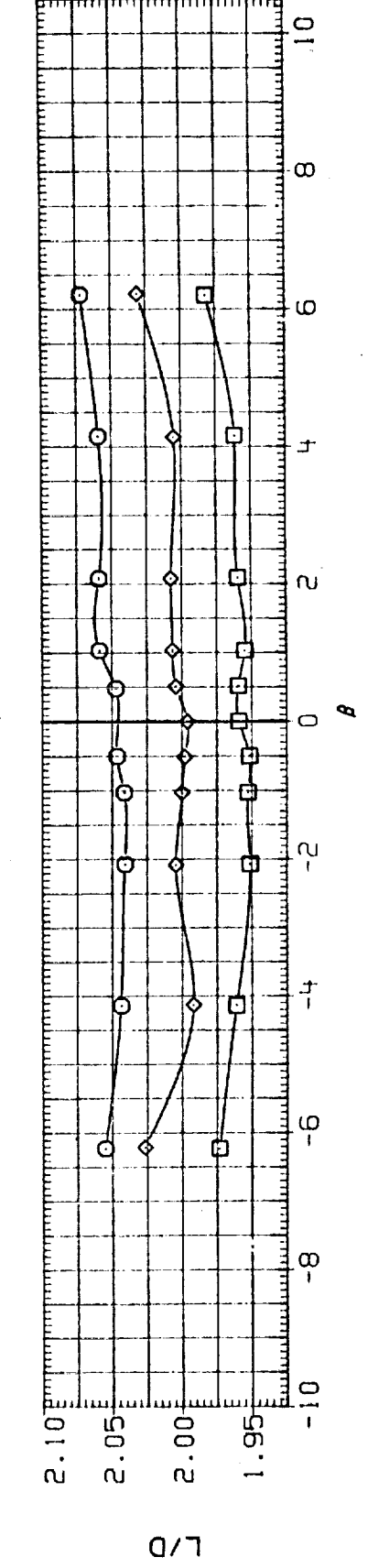
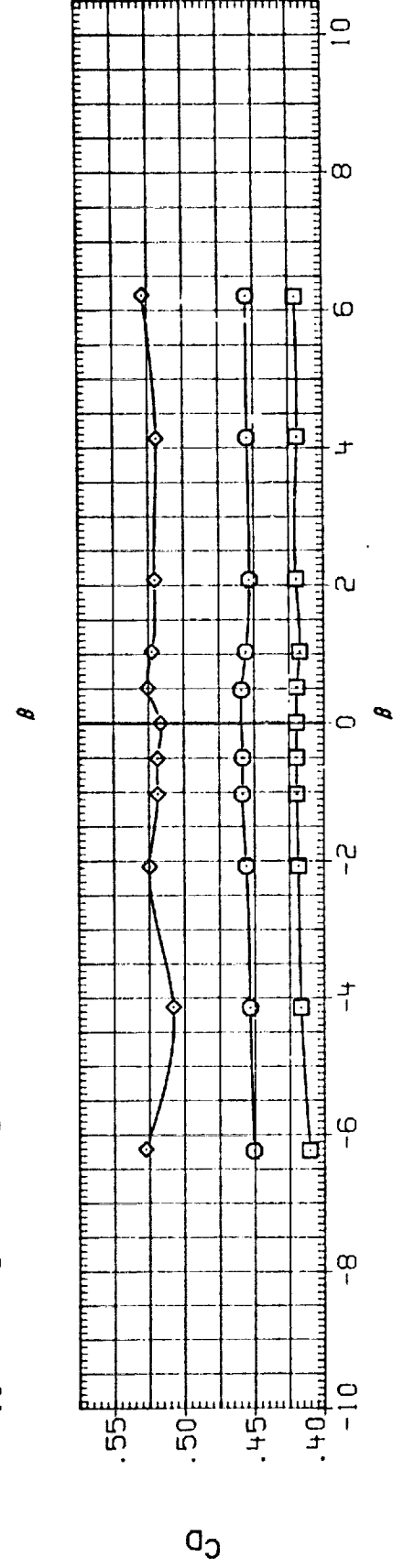
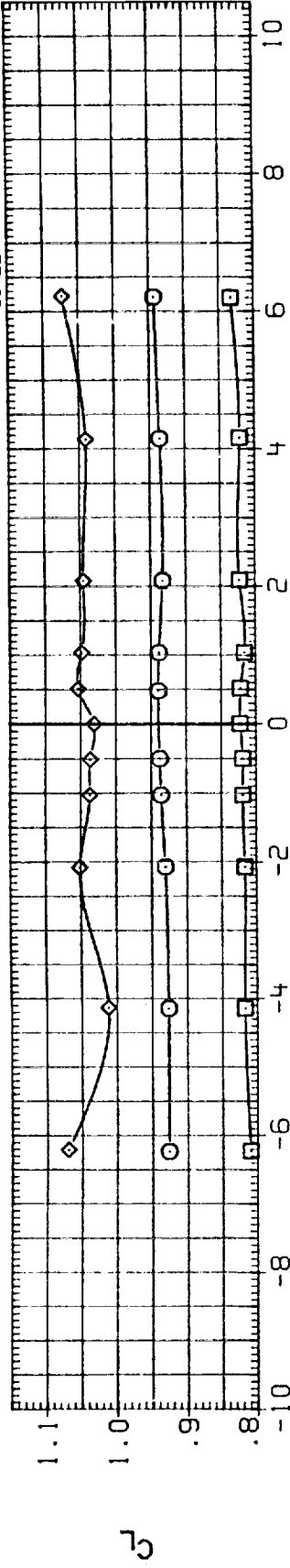


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

| | | | | | | |
|-----------------|--|---------|--------|--------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
| (CUK084) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 20.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (CUK066) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 20.000 | 4.500 | LREF 474.8000 INCHES |
| (CUK095) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 20.000 | 4.500 | BRE 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

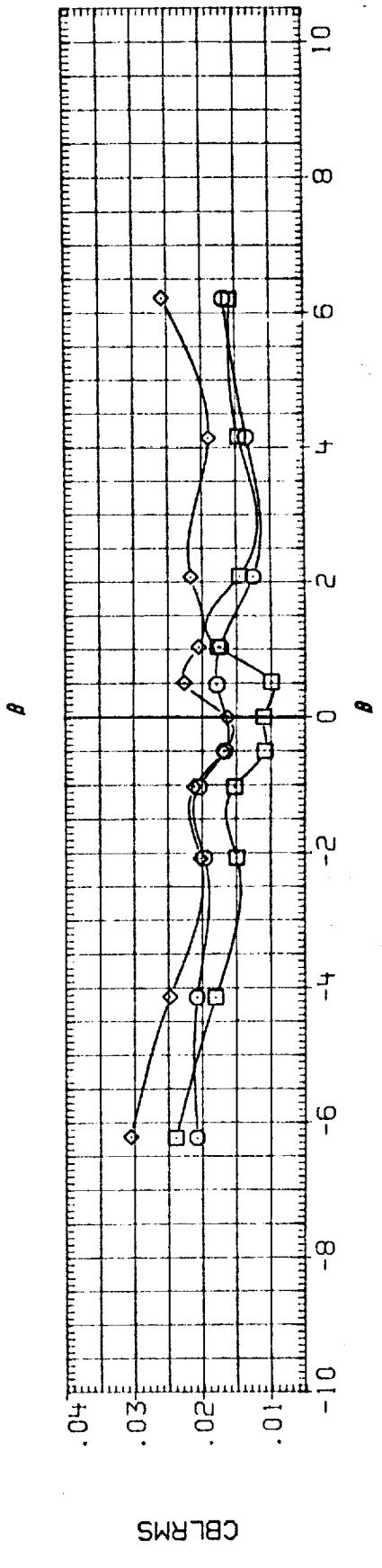
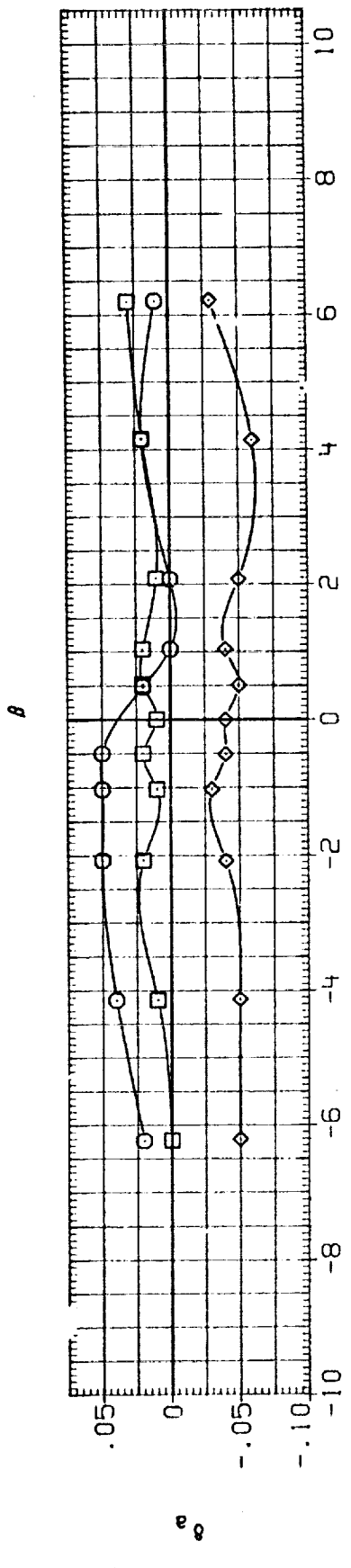
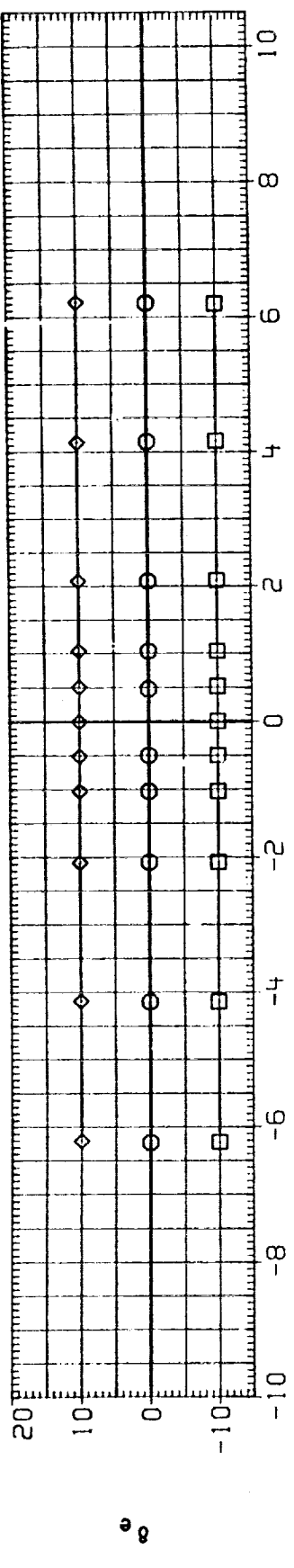


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK084) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK066) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK095) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

ELEVON ALLRON ALPHA RN/L

.000 .000 4.500

-10.000 .000 4.500

10.000 .000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE 0.150

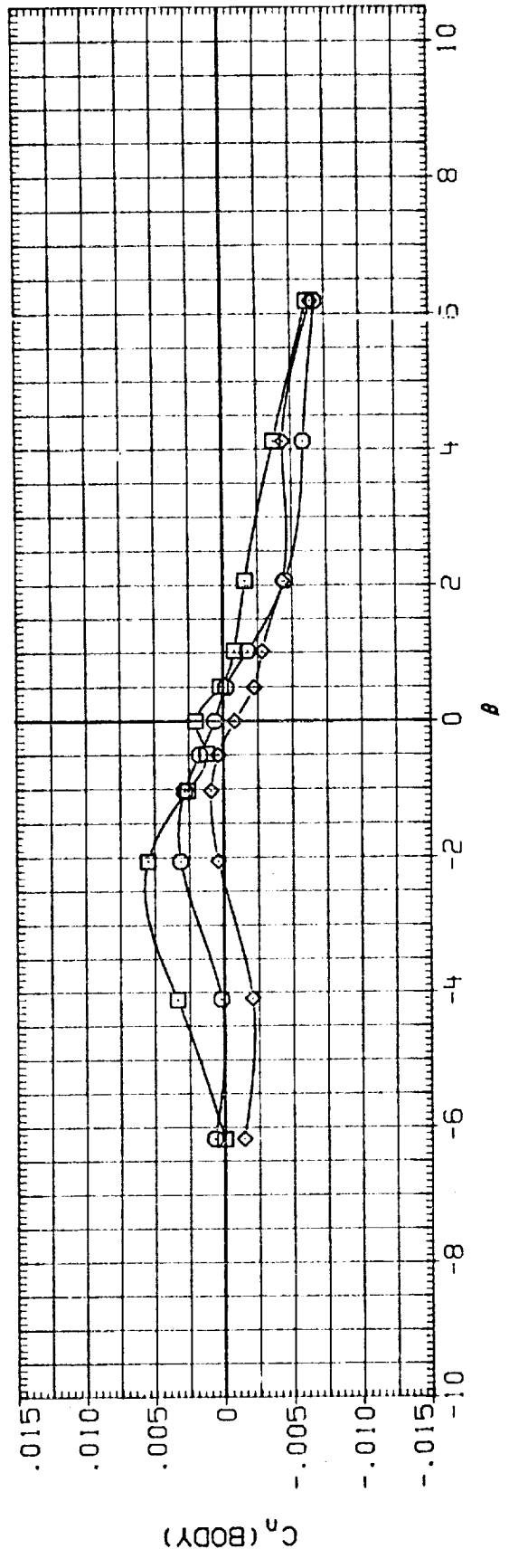
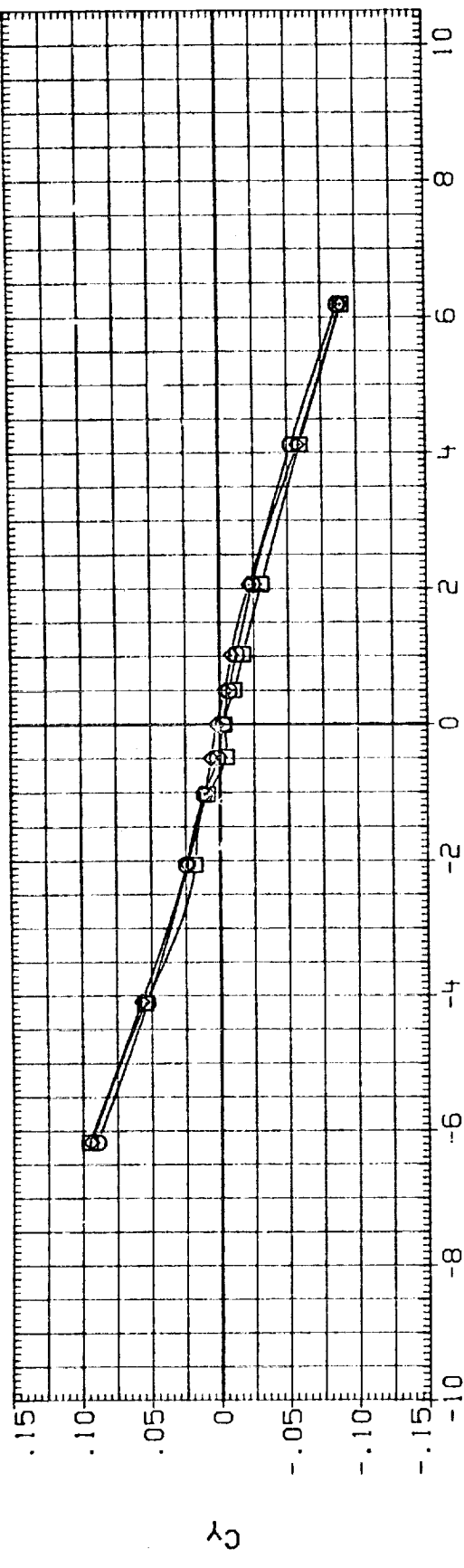


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK084) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK066) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK095) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AIRLON ALPHA RN/L

.000 .000 20.000 4.500

-10.000 .000 20.000 4.500

10.000 .000 20.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 50.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

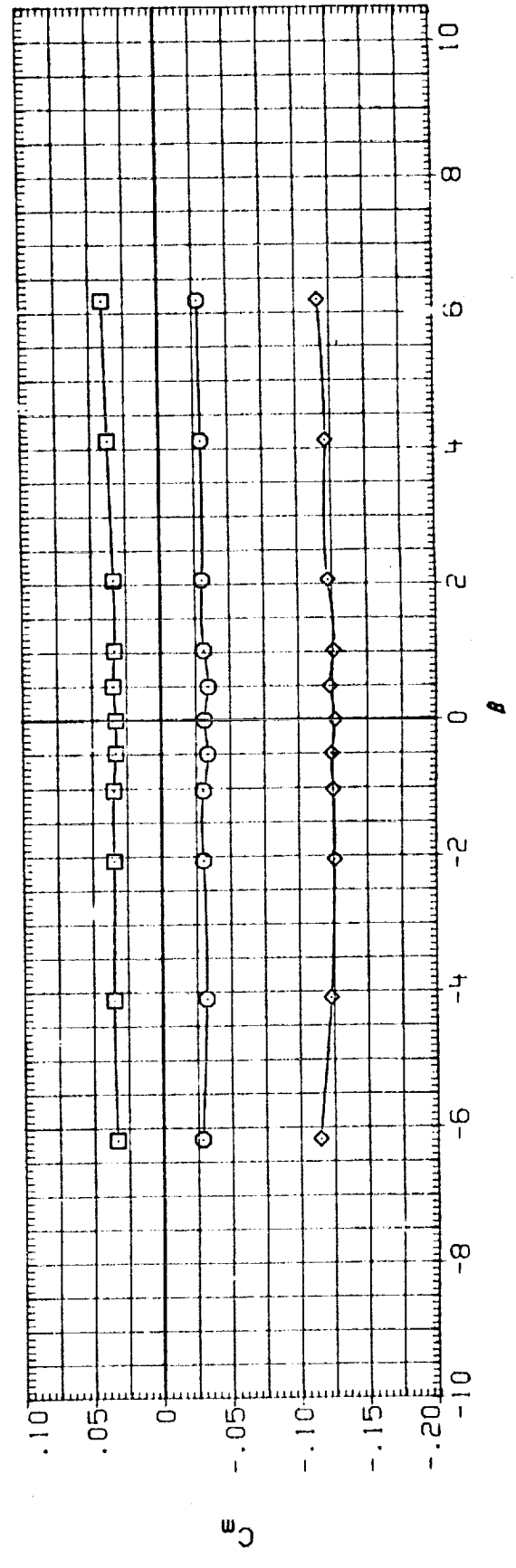
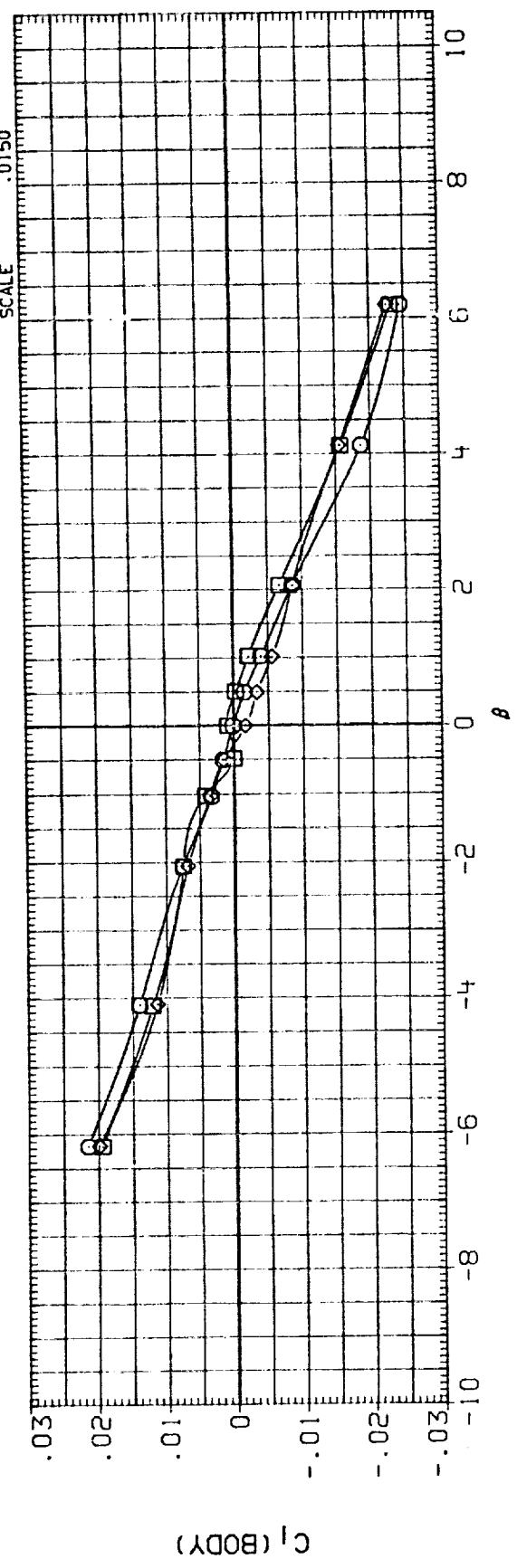


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = .95

| | | | | | | |
|-----------------|--|---------|---------|--------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | ALPHA | RN/VL | REFERENCE INFORMATION |
| (RUK084) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 20.000 | 4.500 | SREF 2690.0000 SO.FT. |
| (RUK066) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 20.000 | 4.500 | LREF 474.8000 INCHES |
| (RUK095) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 20.000 | 4.500 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

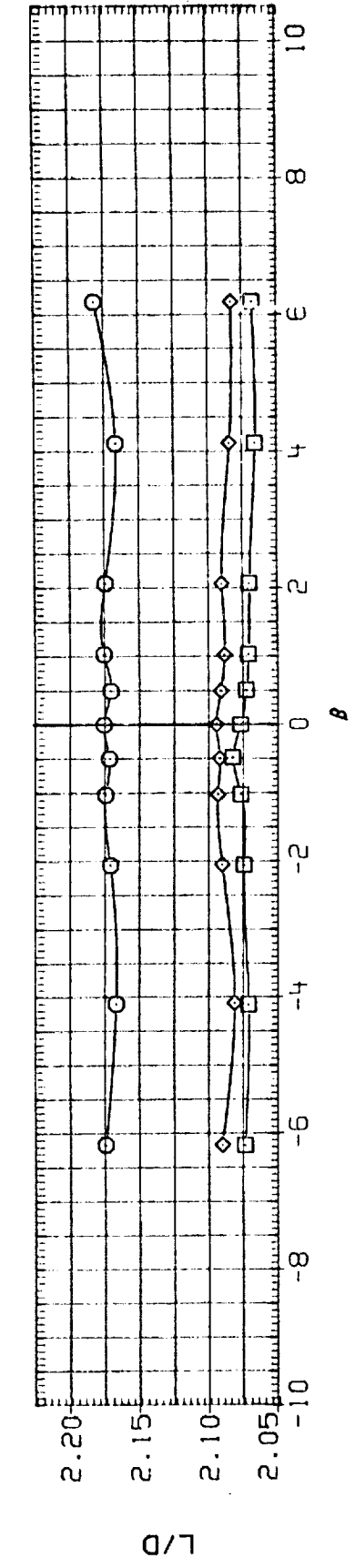
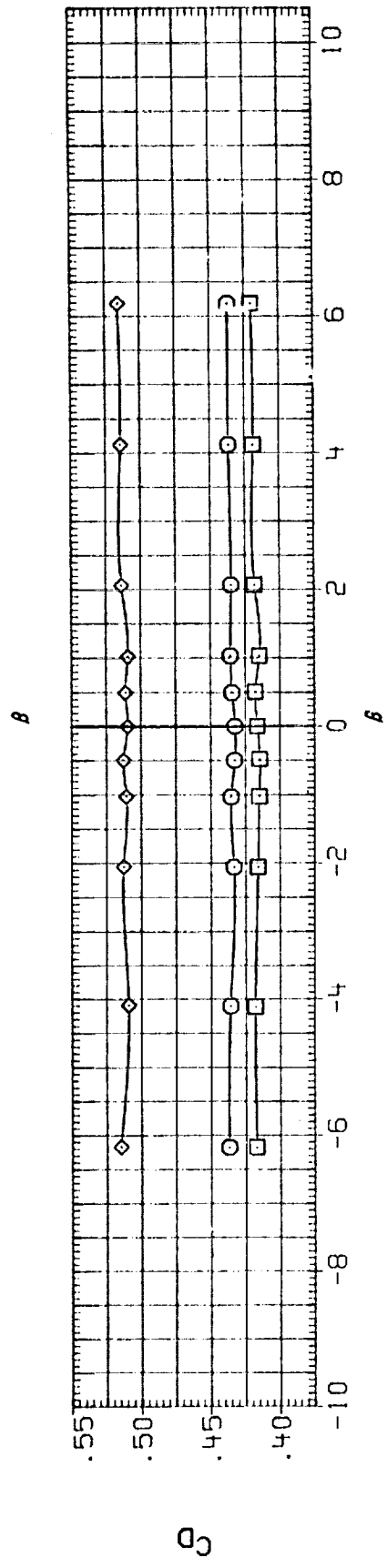
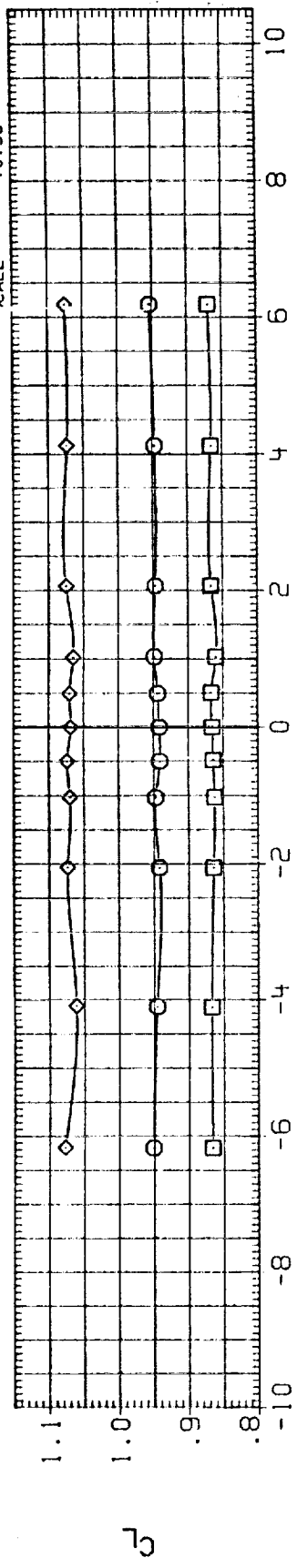


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = .95

REFERENCE INFORMATION

| | | |
|------|-----------|--------|
| SREF | 2690.0000 | SQ.FT. |
| LREF | 474.8000 | INCHES |
| BREF | 936.6800 | INCHES |
| XMRP | 1076.7000 | IN. XO |
| YMRP | .0000 | IN. YO |
| ZMRP | 375.0000 | IN. ZO |

SCALE .0150

ELEVON AILRON ALPHA RN/L

| | | | | | | | |
|--------|---------|--------|------|-------|--------|------|-------|
| ELEVON | .000 | AILRON | .000 | ALPHA | 20.000 | RN/L | 4.500 |
| | -10.000 | | .000 | | 20.000 | | 4.500 |
| | 10.000 | | .000 | | 20.000 | | 4.500 |

DATA SET SYMBOL CONFIGURATION DESCRIPTION

| | | |
|----------|---|--|
| (CUK084) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (CUK066) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (CUK095) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |

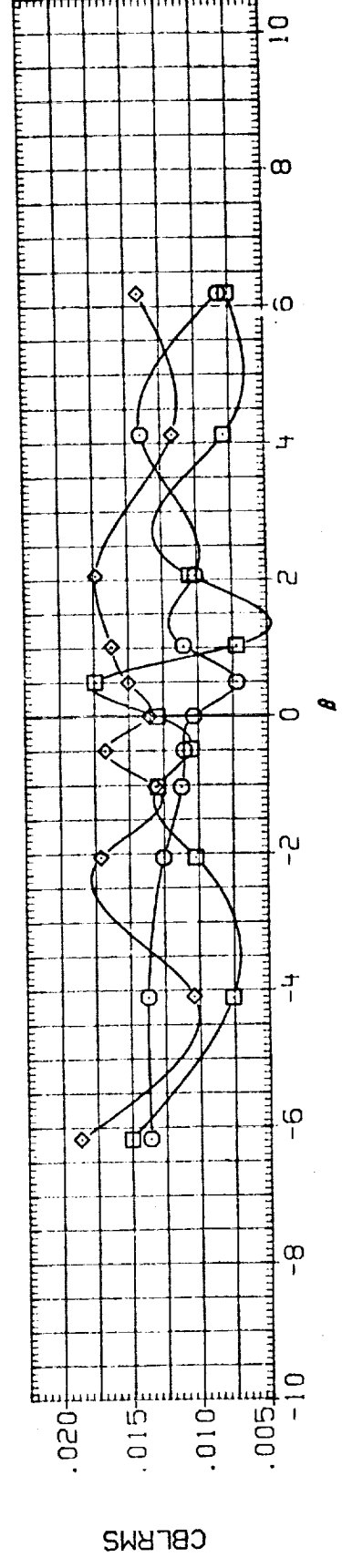
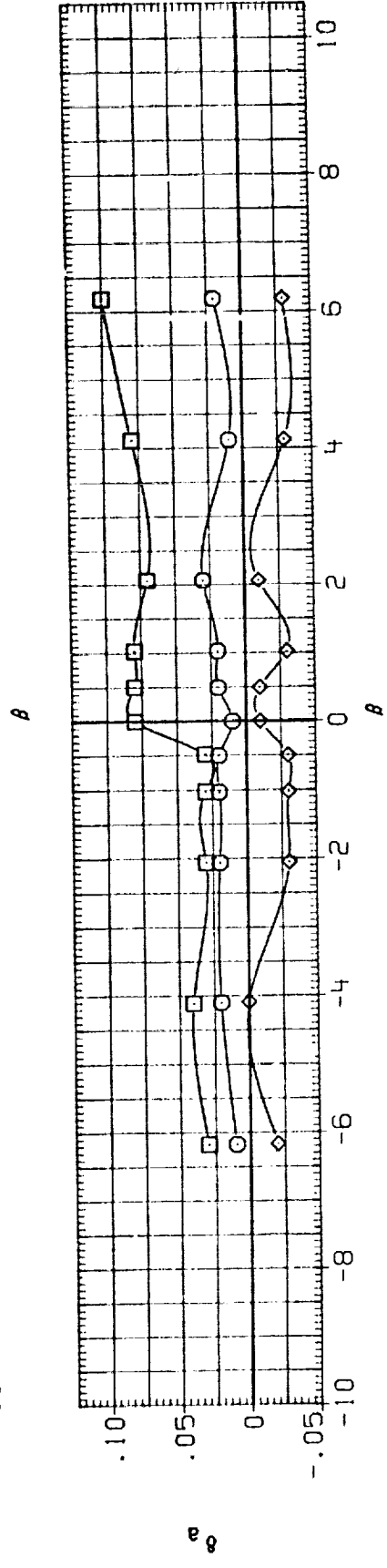
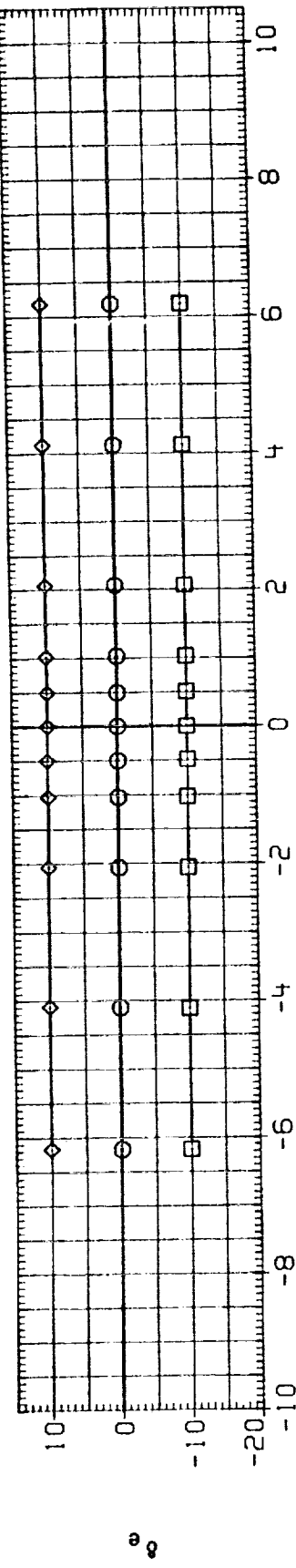


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK085) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK067) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK096) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RN/L

-10.000 .000 20.000 4.000

-10.000 .000 20.000 4.000

10.000 .000 20.000 4.000

REFERENCE INFORMATION

SREF 2690.0000 SO. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

YMPP 1076.7000 IN. XO

ZMPP .0000 IN. YO

375.0000 IN. ZO

SCALE .0150

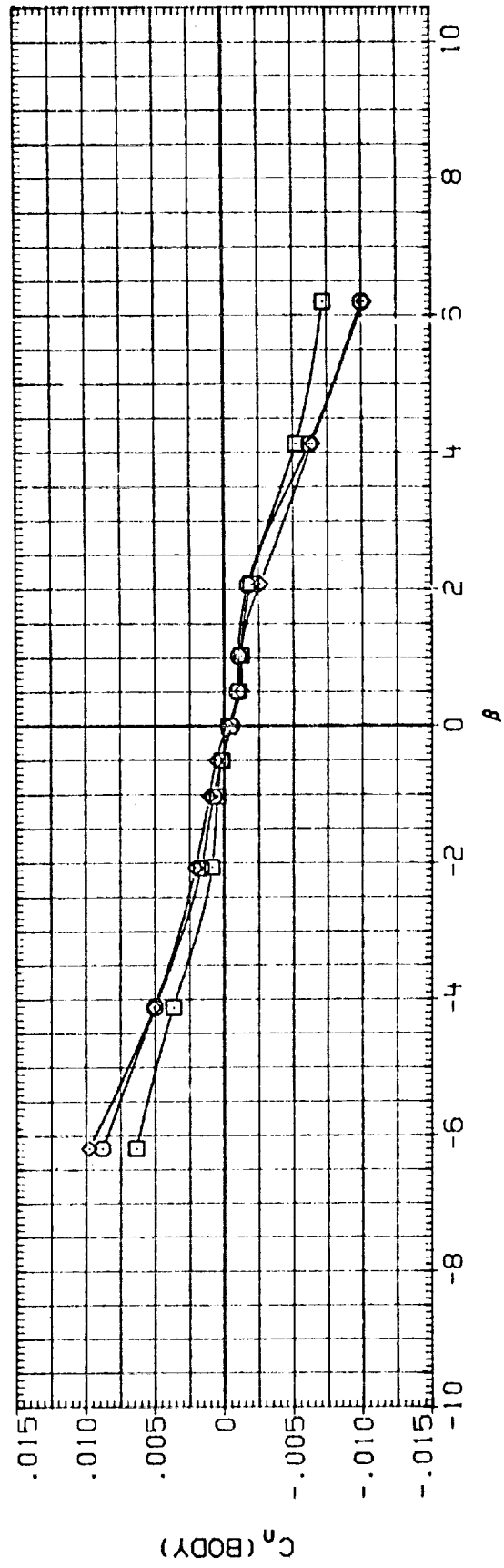
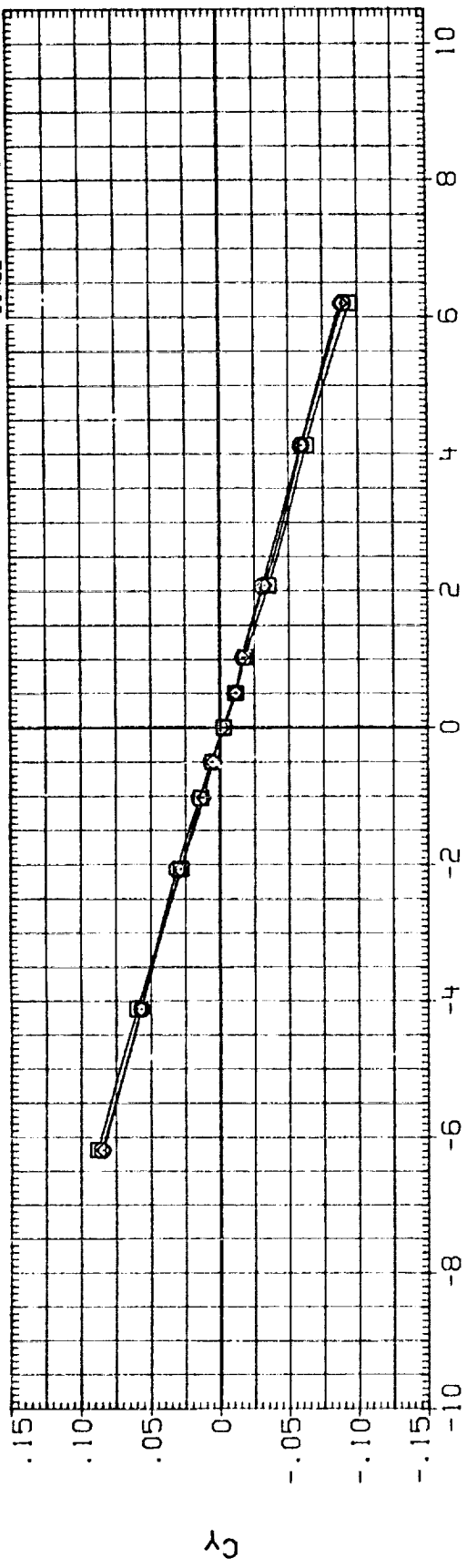


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = 1.20

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

ELEVON AILRON ALPHA RN/L
 .000 .000 20.000 4.000
 -10.000 .000 20.000 4.000
 10.000 .000 20.000 4.000

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

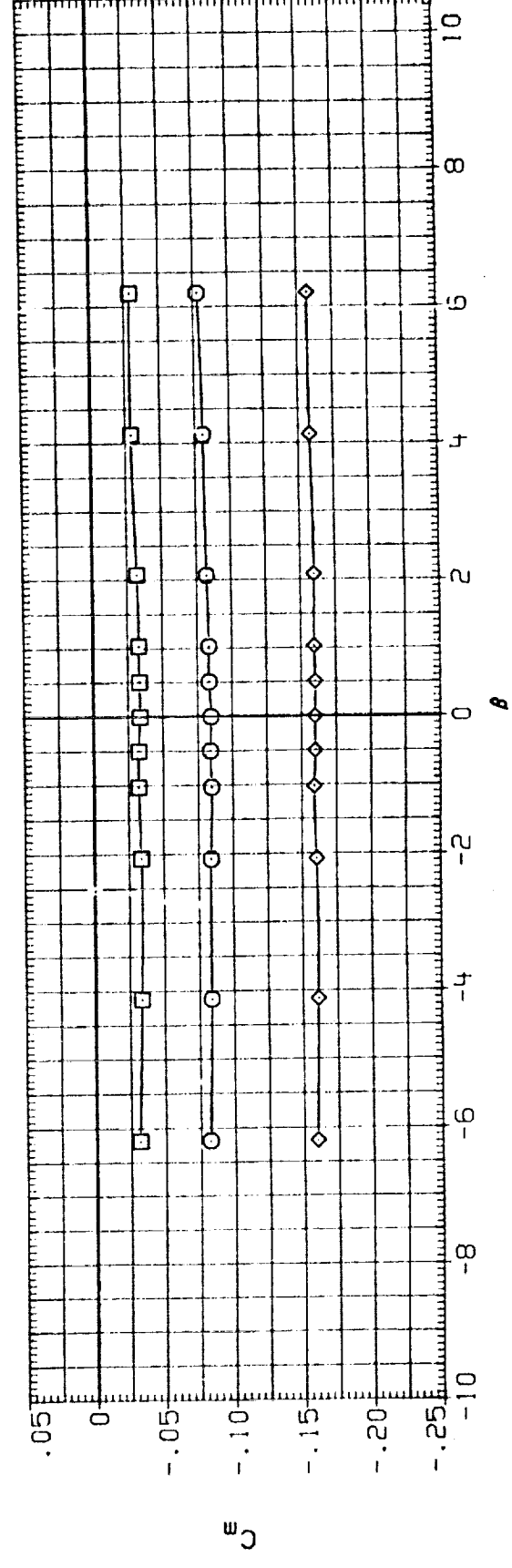
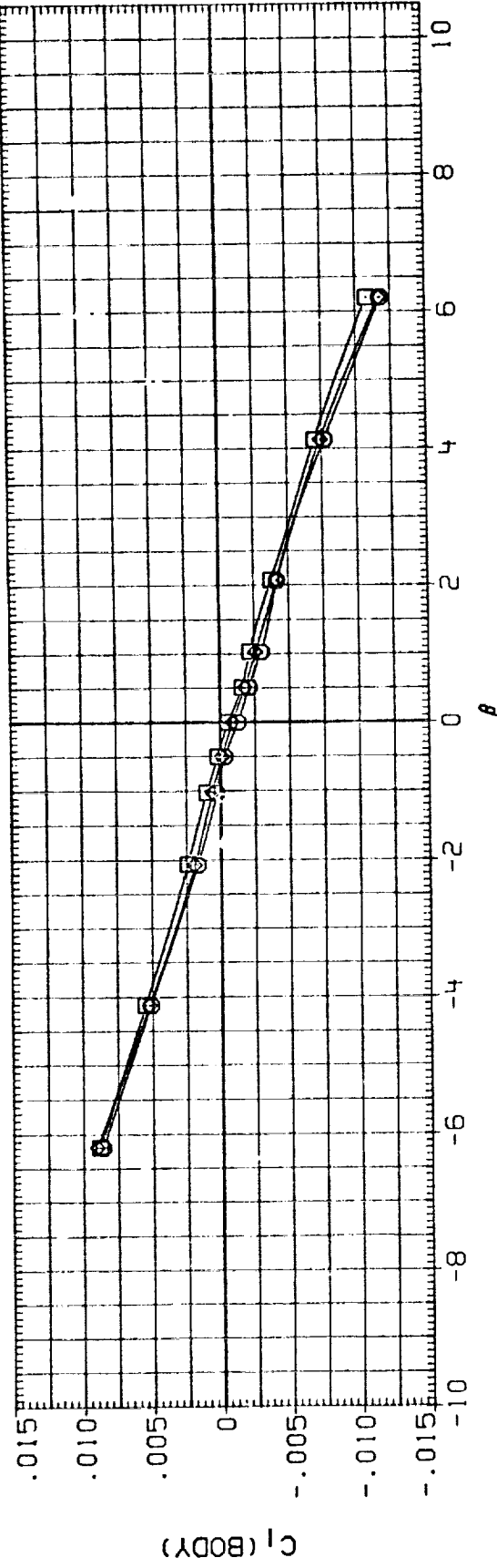


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = 1.20

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILRON | ALPHA | RN/L | REFERENCE INFORMATION |
|----------|--------|--|---------|--------|--------|-------|-----------------------|
| (RUK095) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 20.000 | 4.000 | SREF 2690.0000 SQ.FT. |
| (RUK057) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -10.000 | .000 | 20.000 | 4.000 | LREF 474.8000 INCHES |
| (RUK096) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 20.000 | 4.000 | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

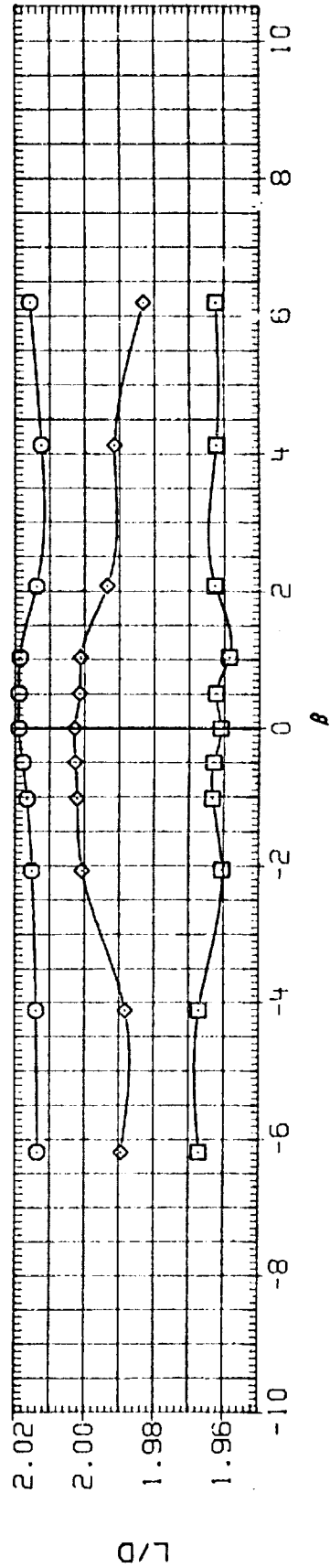
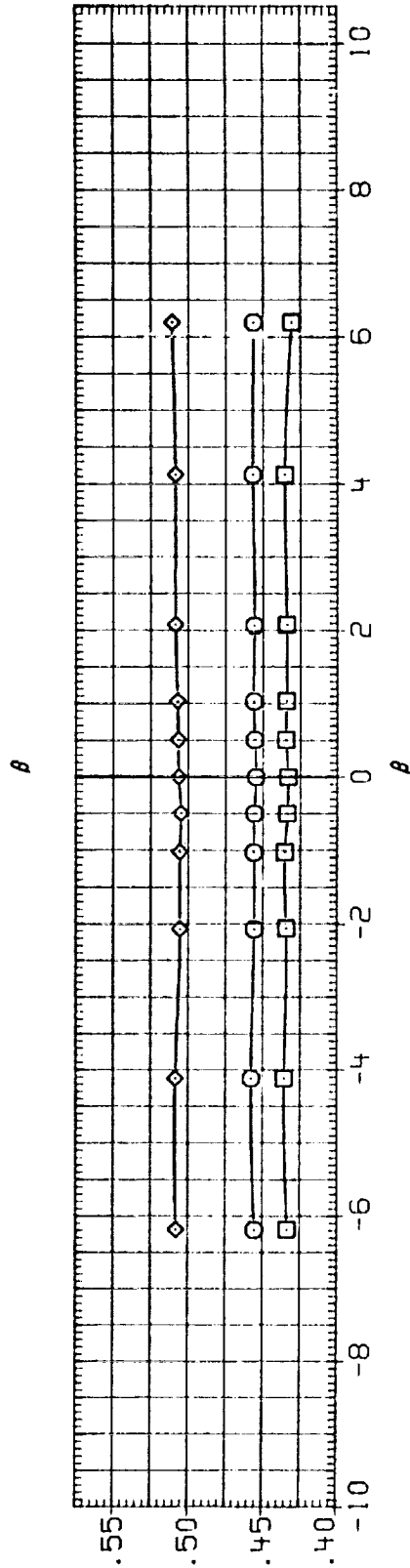
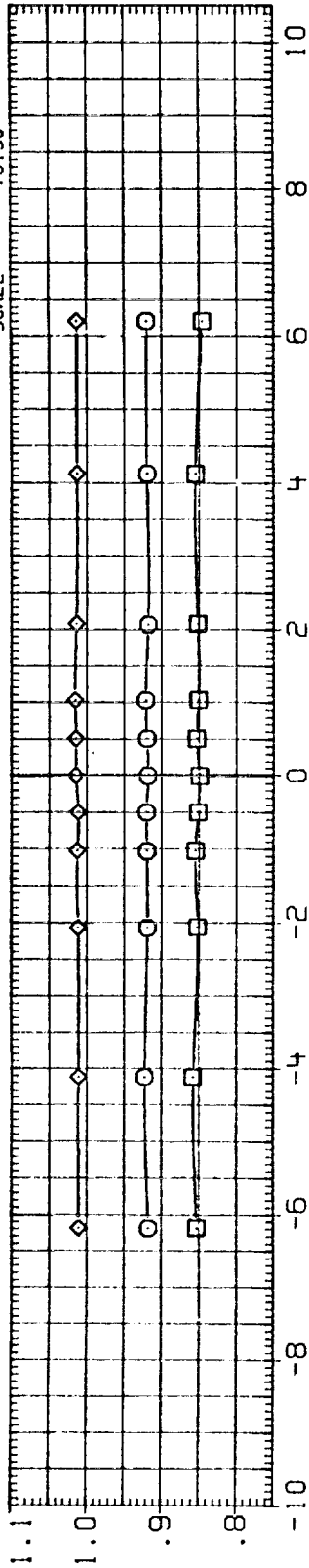


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

REFERENCE INFORMATION
 SQ.FT. 2690.0000
 INCHES 474.8000
 INCHES 936.6800
 IN. X0 1076.7000
 IN. Y0 .0000
 IN. Z0 375.0000
 SCALE .0150

RN/L 4.000
 ALPHA 20.000
 AIRLON .000
 ELEVON .000
 -10.000
 10.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CUK085) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK067) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK096) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

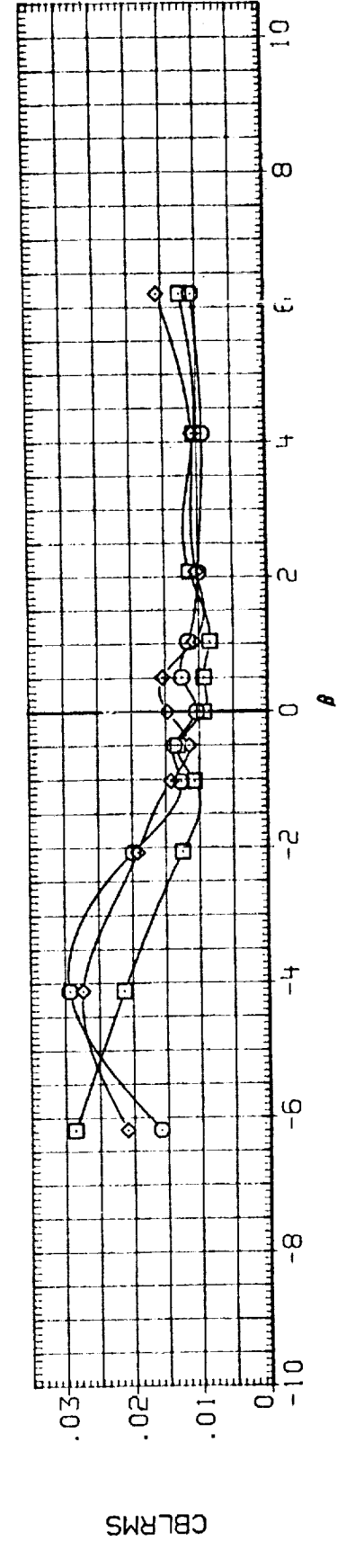
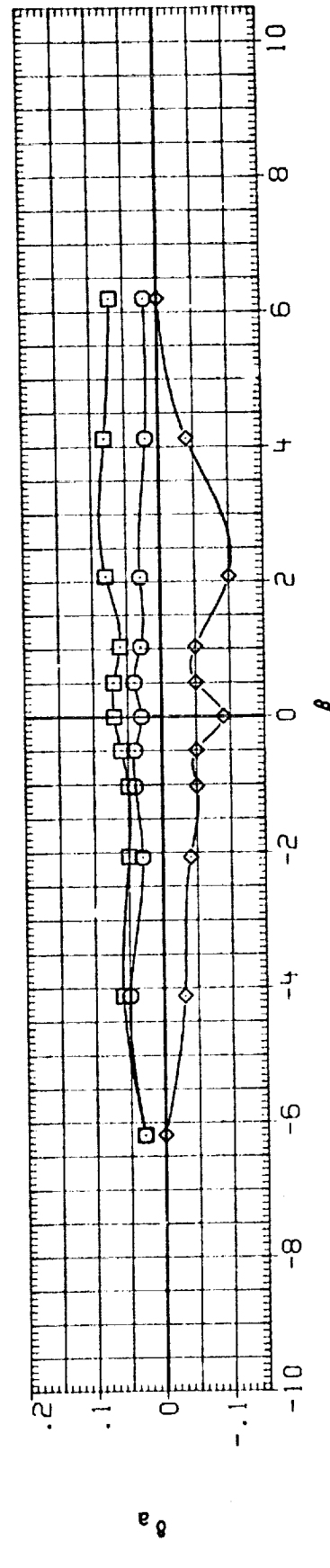
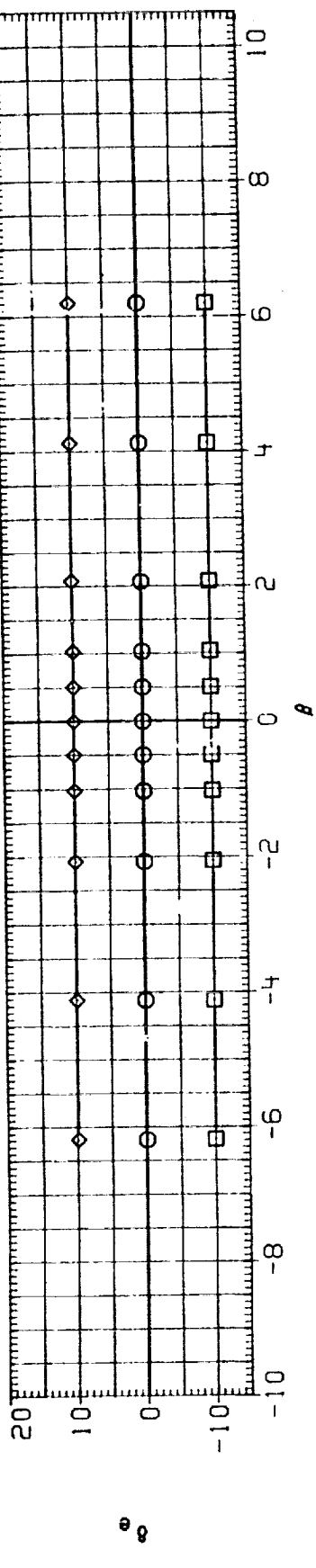


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = 1.20

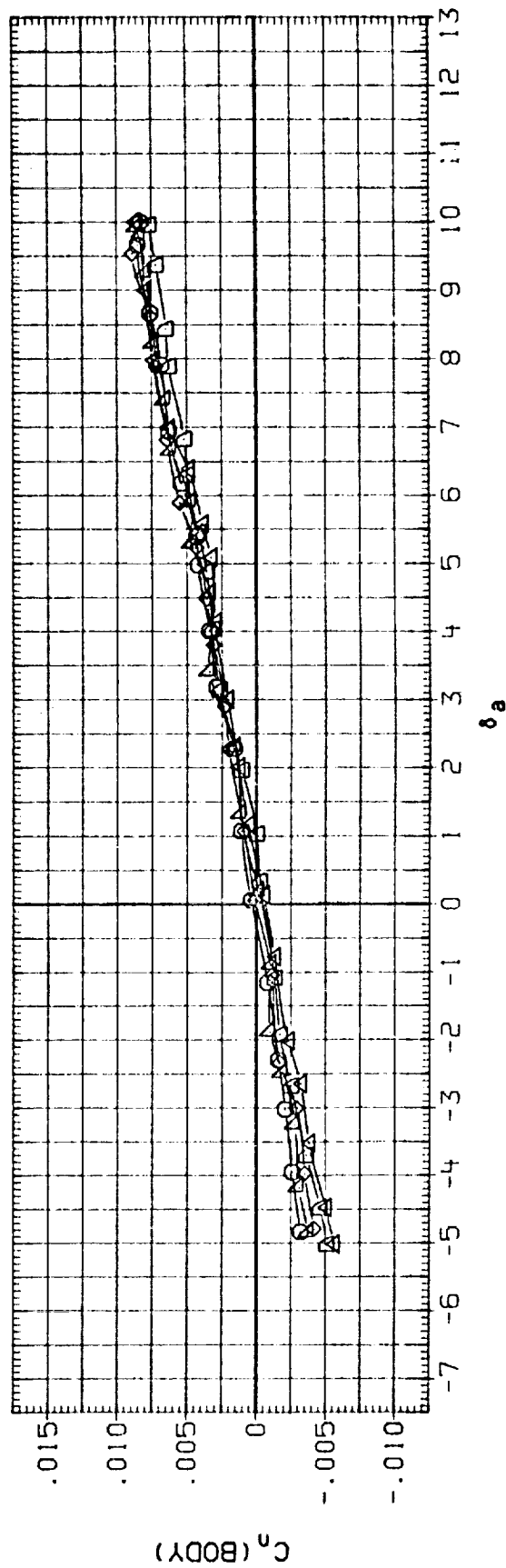
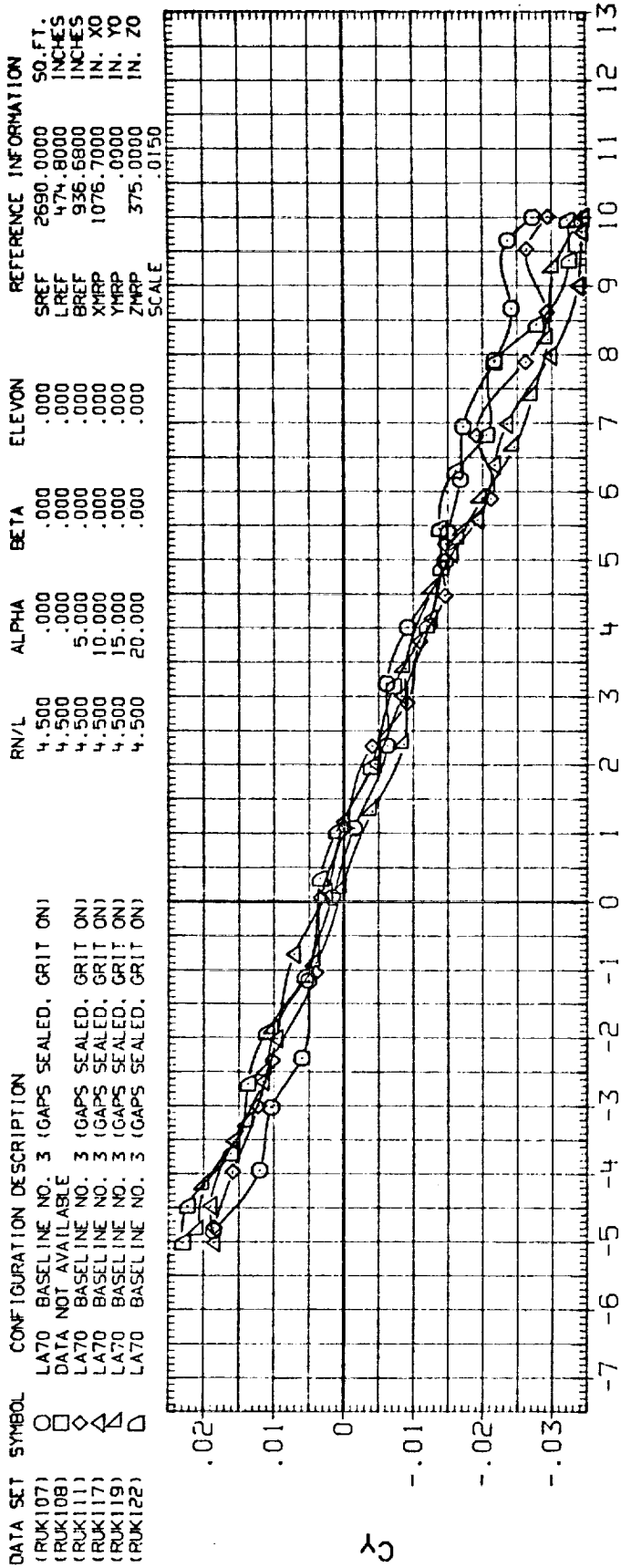


FIG. 24 AILERON LINEARITY, ELEVON = 0

DATA SET SYMBOL CONFIGURATION DESCRIPTION RN/L ALPHA BETA ELEVON REFERENCE INFORMATION SQ. FT. INCHES

(RUK107) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) 4.500 .000 .000 .000 SREF 2690.0000

(RUK108) DATA NOT AVAILABLE 4.500 .000 .000 .000 LREF 474.8000

(RUK111) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) 4.500 5.000 .000 .000 BREF 936.6800

(RUK117) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) 4.500 10.000 .000 .000 XMRP 1076.7000

(RUK119) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) 4.500 15.000 .000 .000 YMRP 375.0000

(RUK122) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) 4.500 20.000 .000 .000 ZMRP 375.0000

SCALE .0150

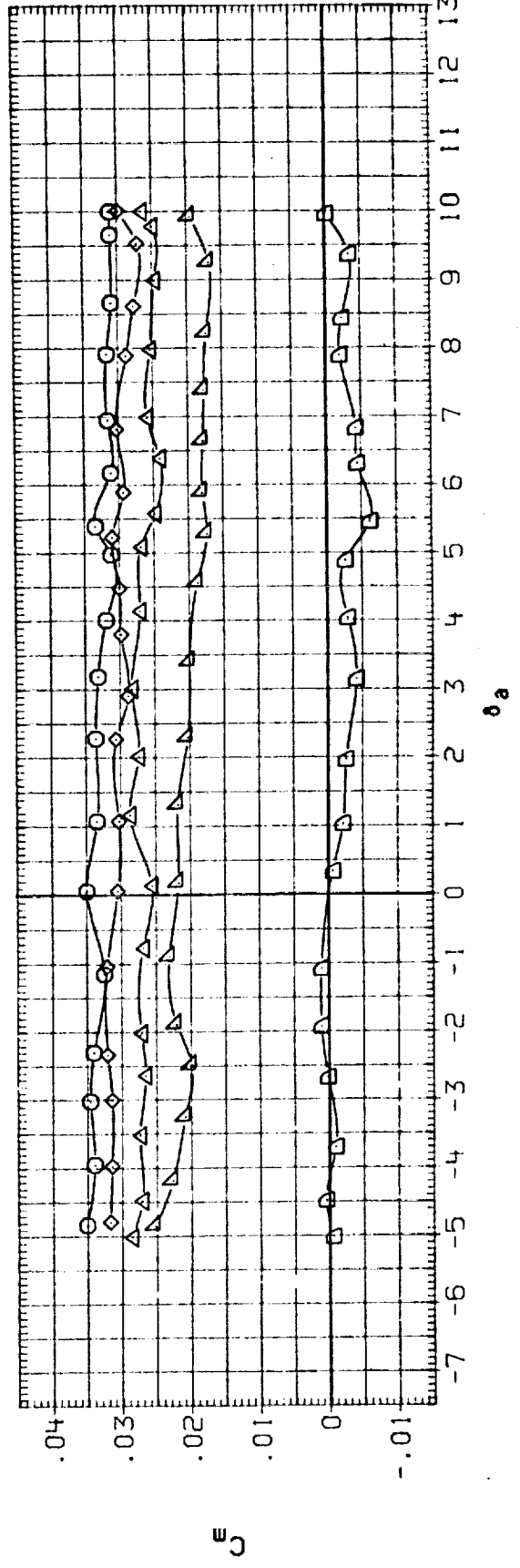
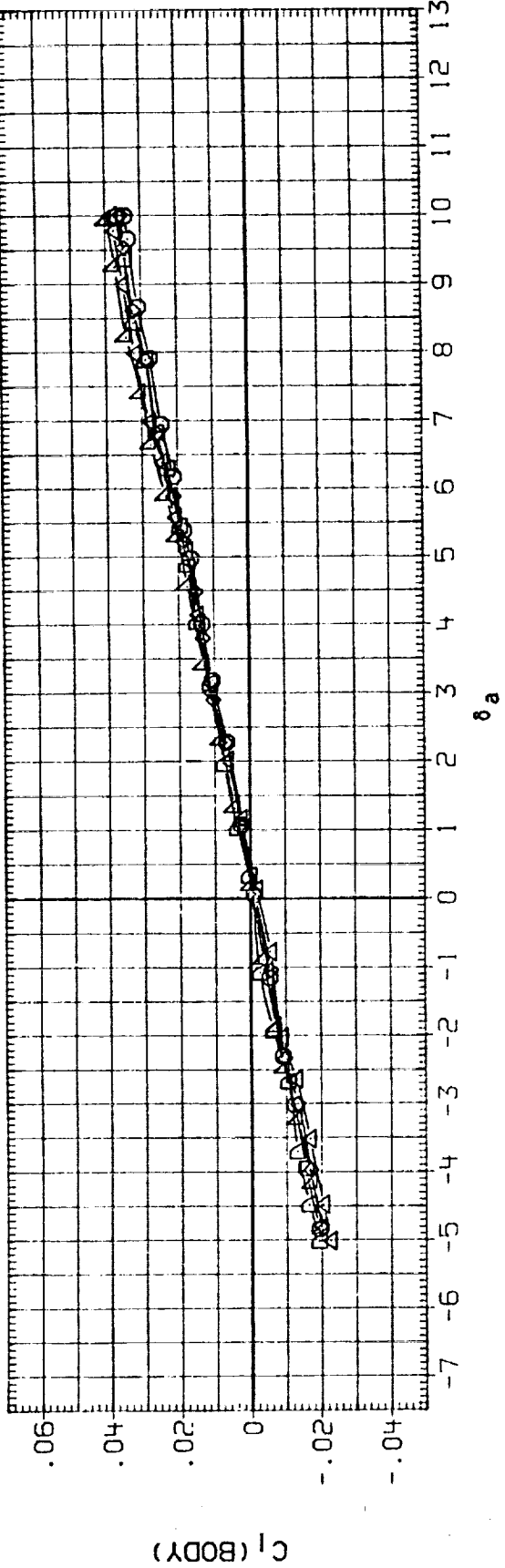


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|------------------------|
| (RUK107) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SO. FT. |
| (RUK108) | □ | DATA NOT AVAILABLE | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK111) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK117) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK119) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | YMRP .0000 IN. YO |
| (RUK122) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

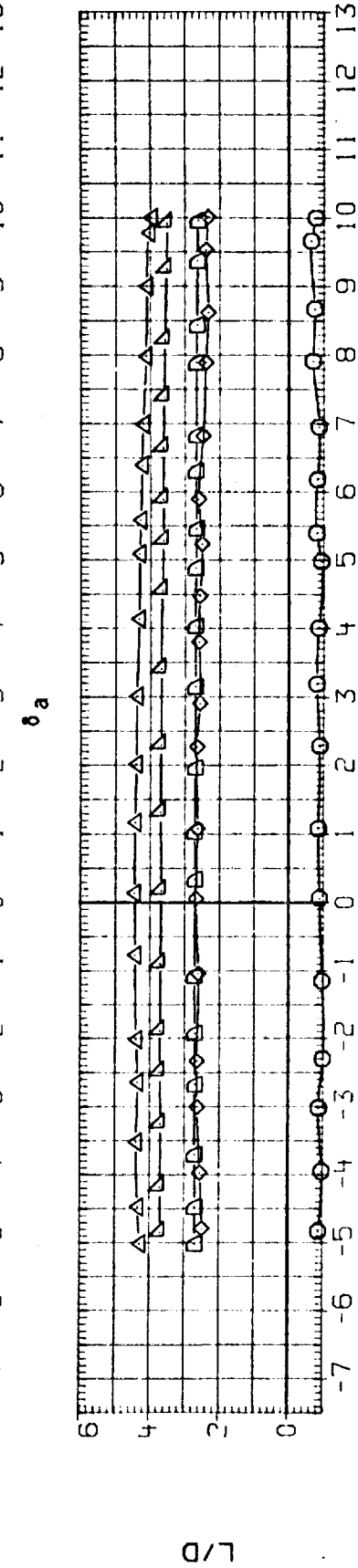
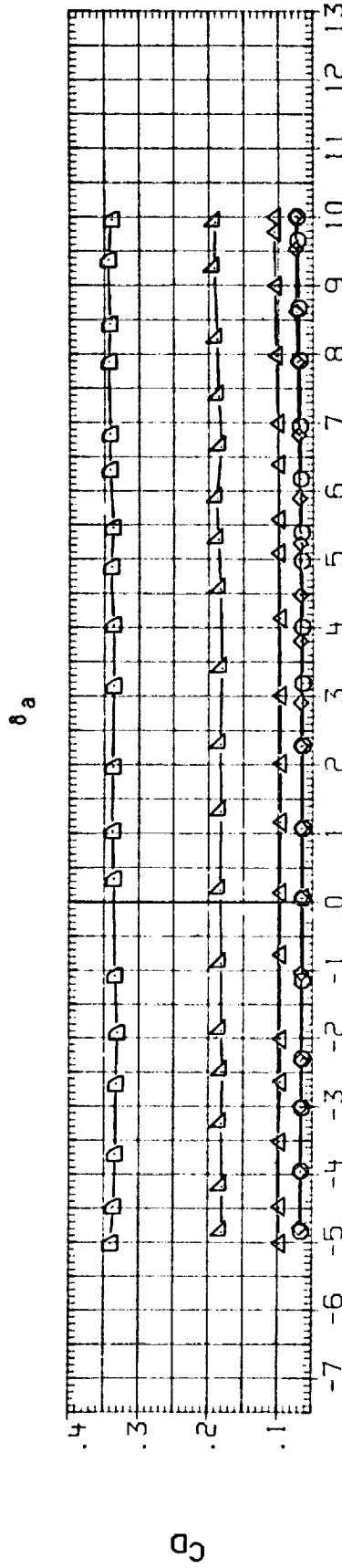
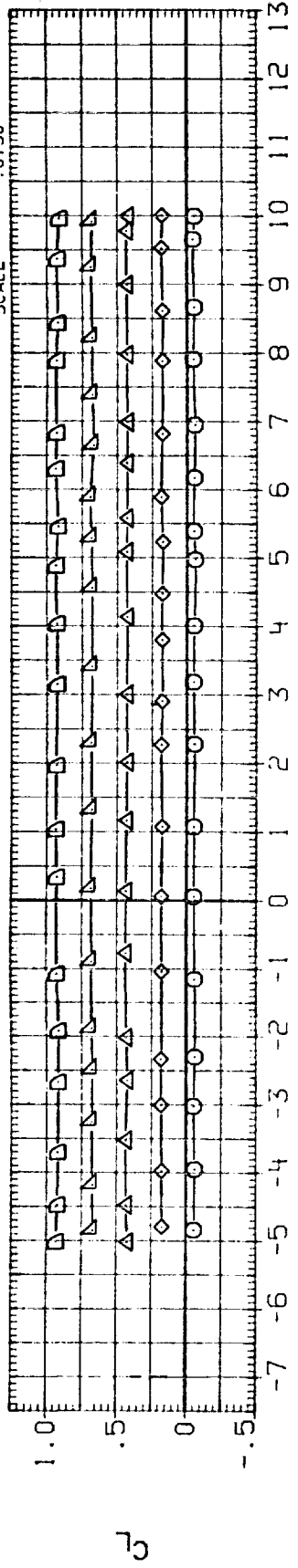


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = .60

| | | | | | | |
|-----------------|--|-------|--------|------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
| (CUK107) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK108) | DATA NOT AVAILABLE | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK111) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | BREF 936.6800 INCHES |
| (CUK117) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (CUK119) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | YMRP .0000 IN. YO |
| (CUK122) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

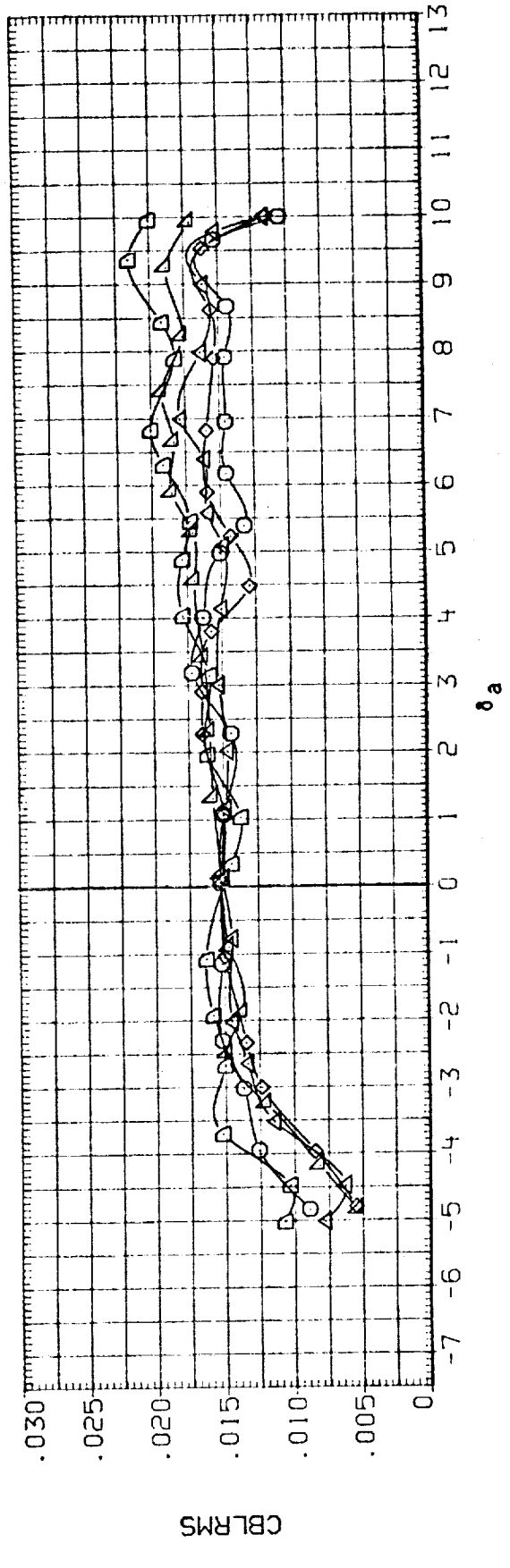
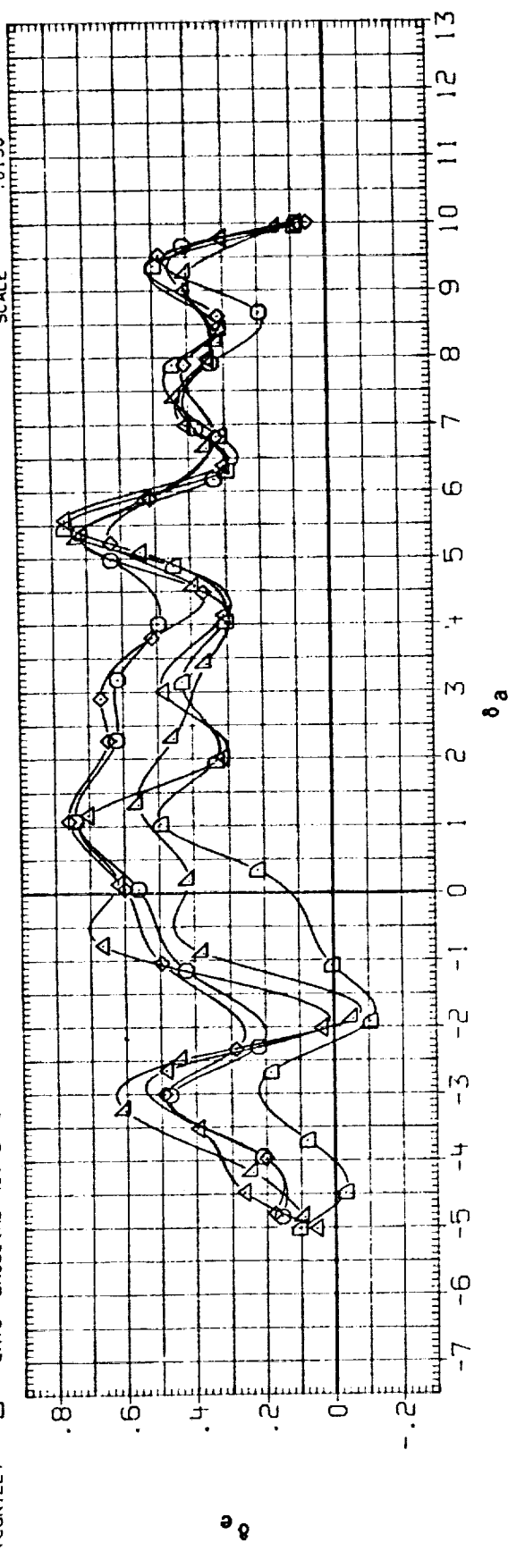


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|------------------------|
| (RUK107) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ. FT. |
| (RUK108) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK111) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | BREF 996.6800 INCHES |
| (RUK117) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK119) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | YMRP .0000 IN. YO |
| (RUK122) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

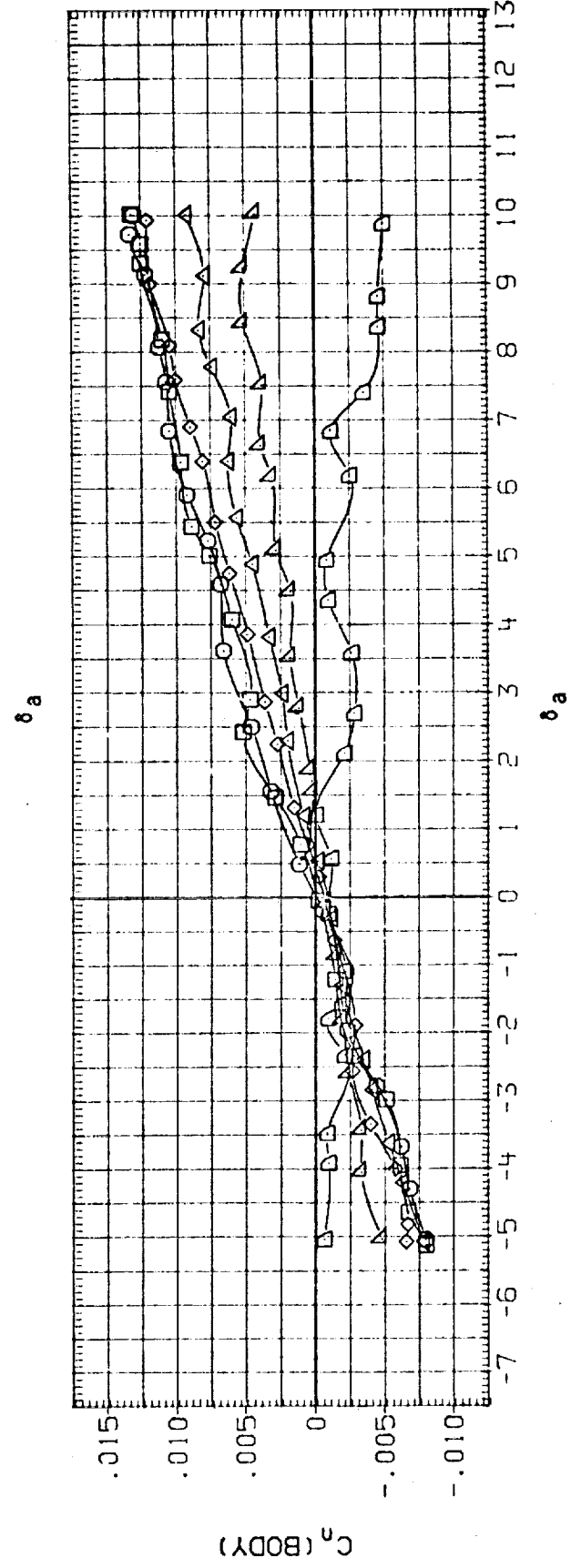
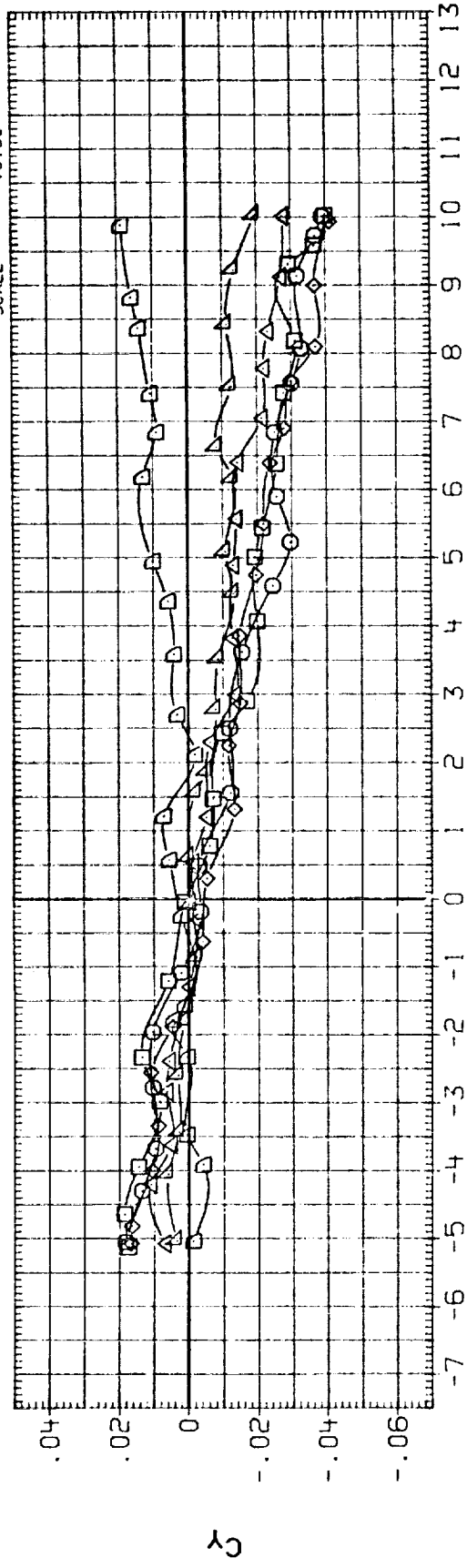


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = .90

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|--------|-----------------------|
| (RUK107) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK108) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK111) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK117) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | XMRP 1076.7000 IN. YO |
| (RUK119) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | YMRP 375.0000 IN. ZO |
| (RUK122) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

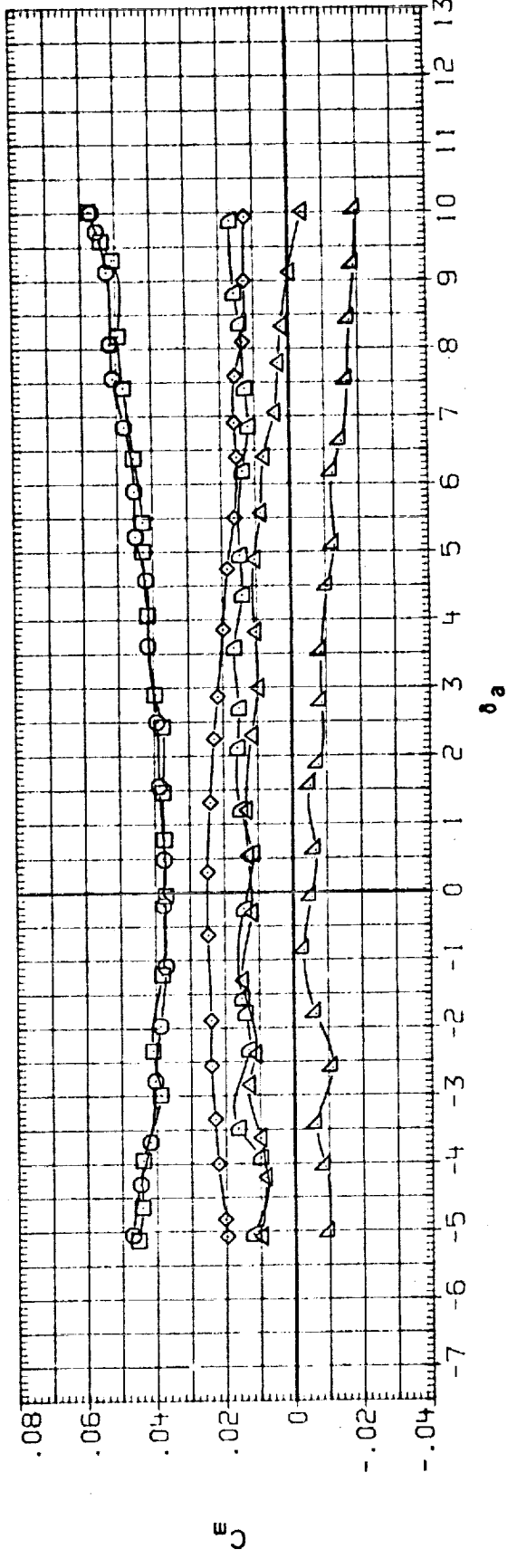
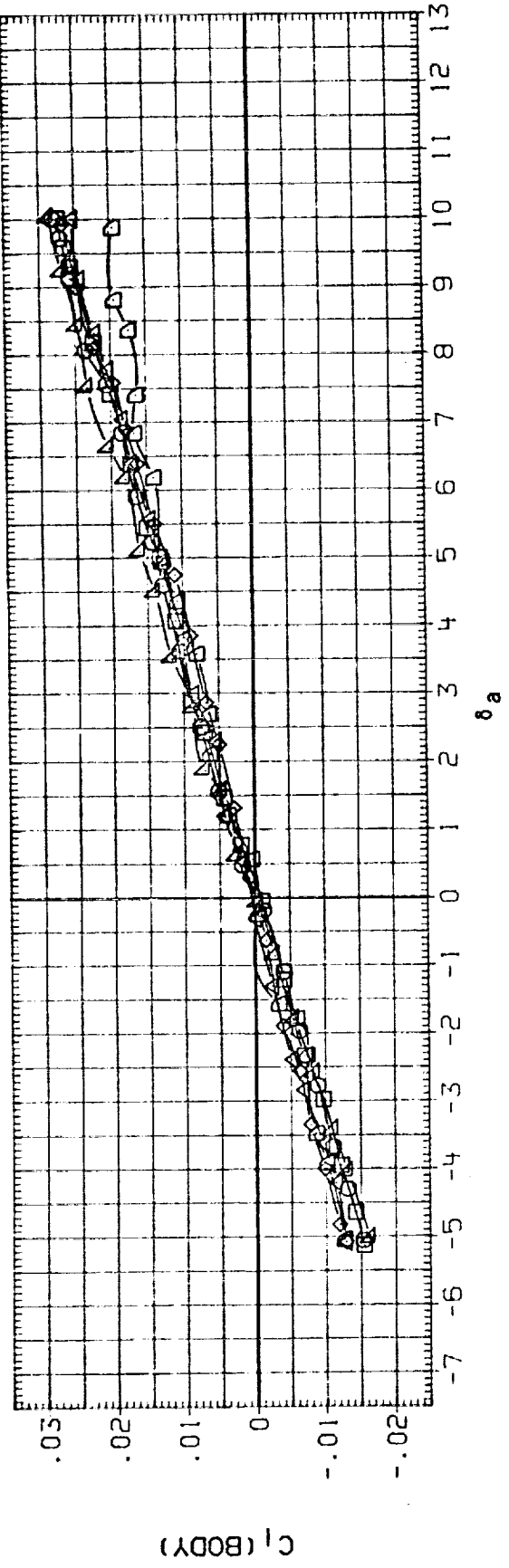
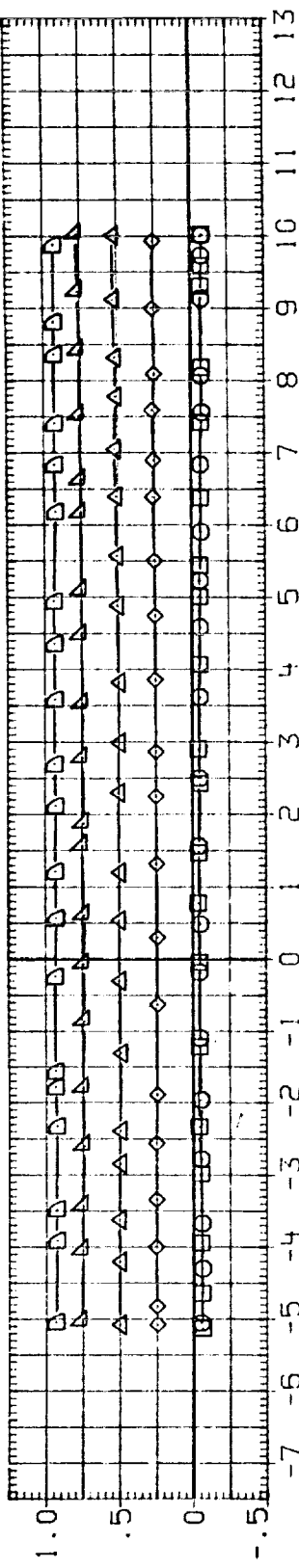


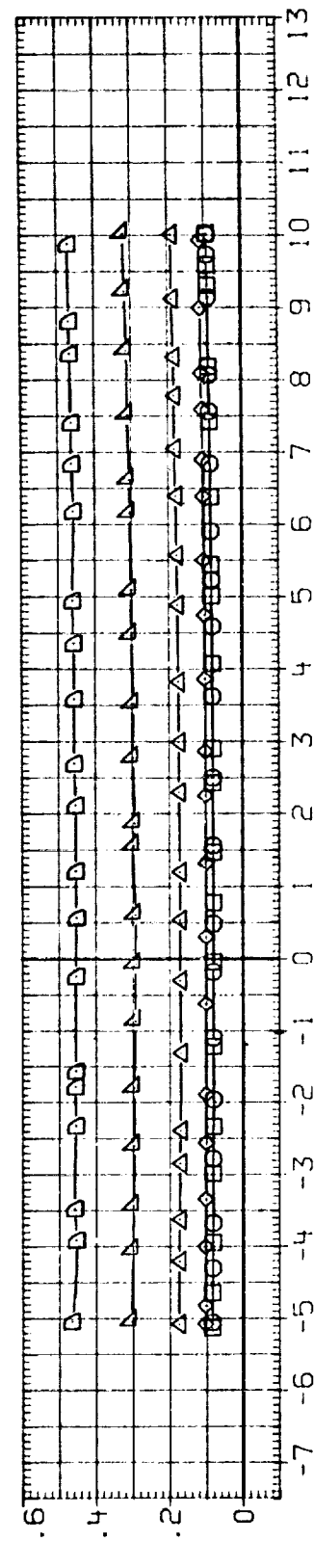
FIG. 24 AILERON LINEARITY, ELEVON = 0

(A)MACH = .90

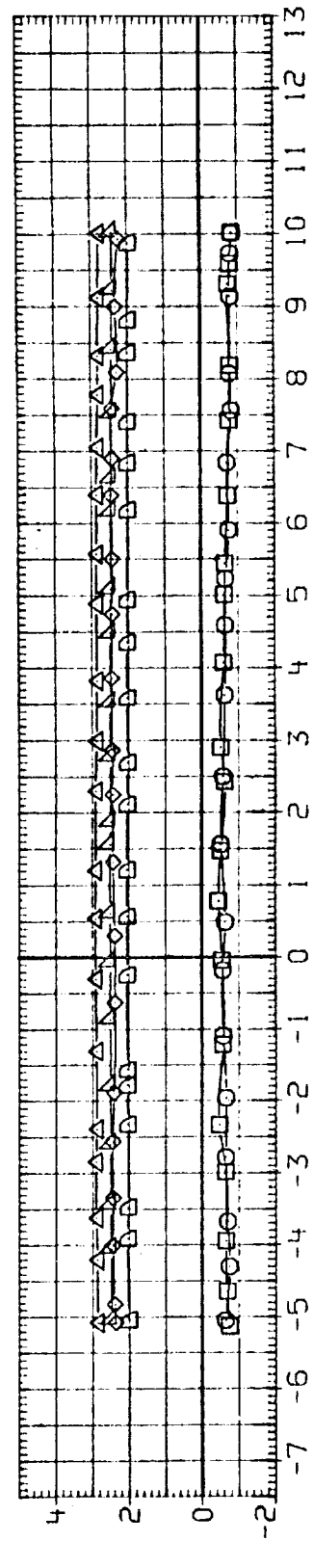
| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK107) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK108) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK111) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | BREF 930.6800 INCHES |
| (RUK117) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK119) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | YMRP .0000 IN. YO |
| (RUK122) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |



δa



δa



δa

FIG. 24 AILERON LINEARITY, ELEVON = 0

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (CUK107) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK108) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK111) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | BREF 936.6800 INCHES |
| (CUK117) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (CUK119) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | YMRP .0003 IN. YO |
| (CUK122) | ◻ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

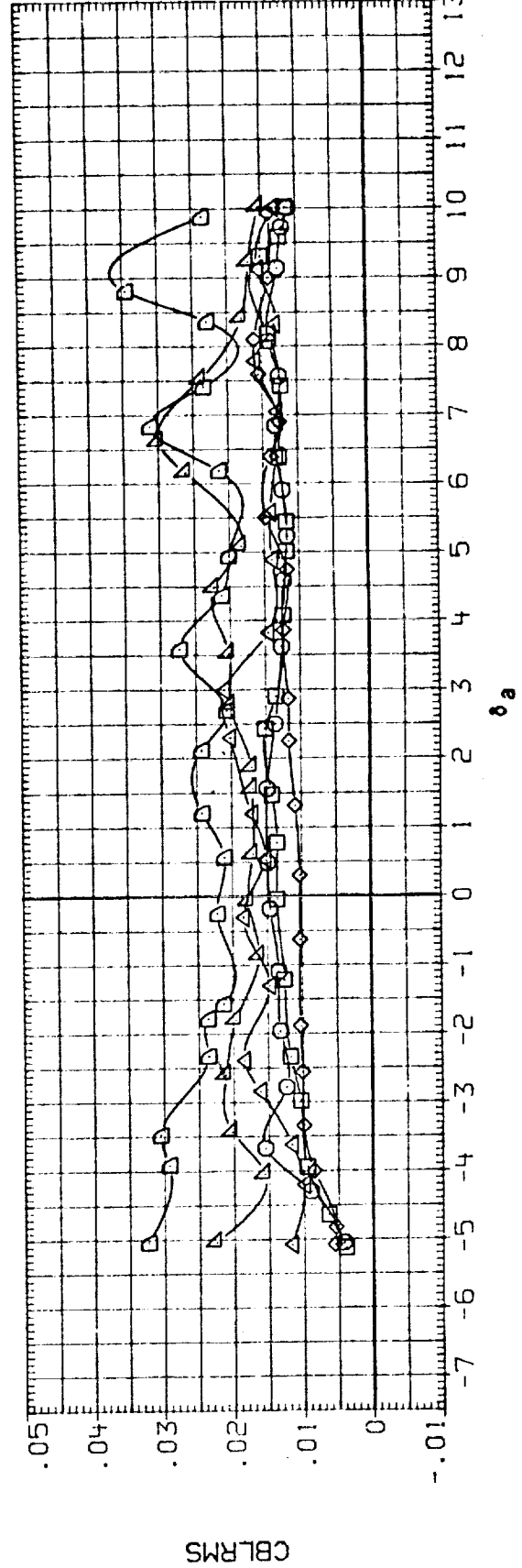
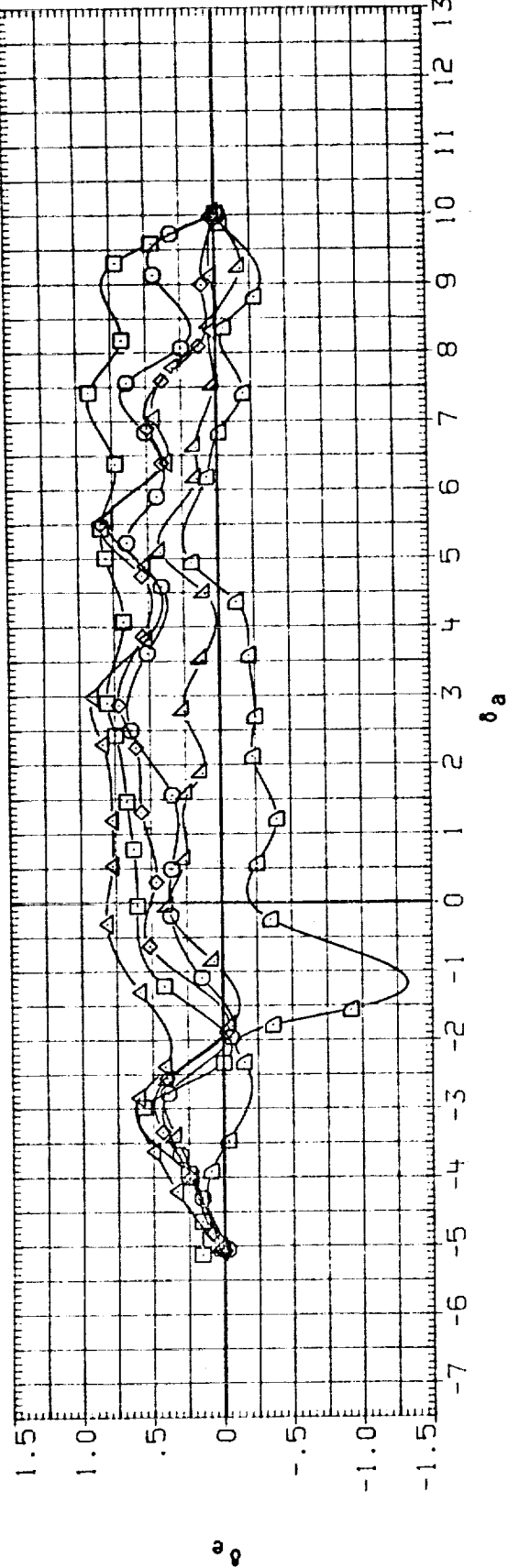


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = .90

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|--------|-----------------------|
| (RUK107) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK108) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK111) | DATA NOT AVAILABLE | 4.500 | .000 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK117) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK119) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | YMRP .0000 IN. YO |
| (RUK122) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | ZMRP .0000 IN. ZO |
| | | 4.500 | 20.000 | .000 | .000 | SCALE 0.150 |

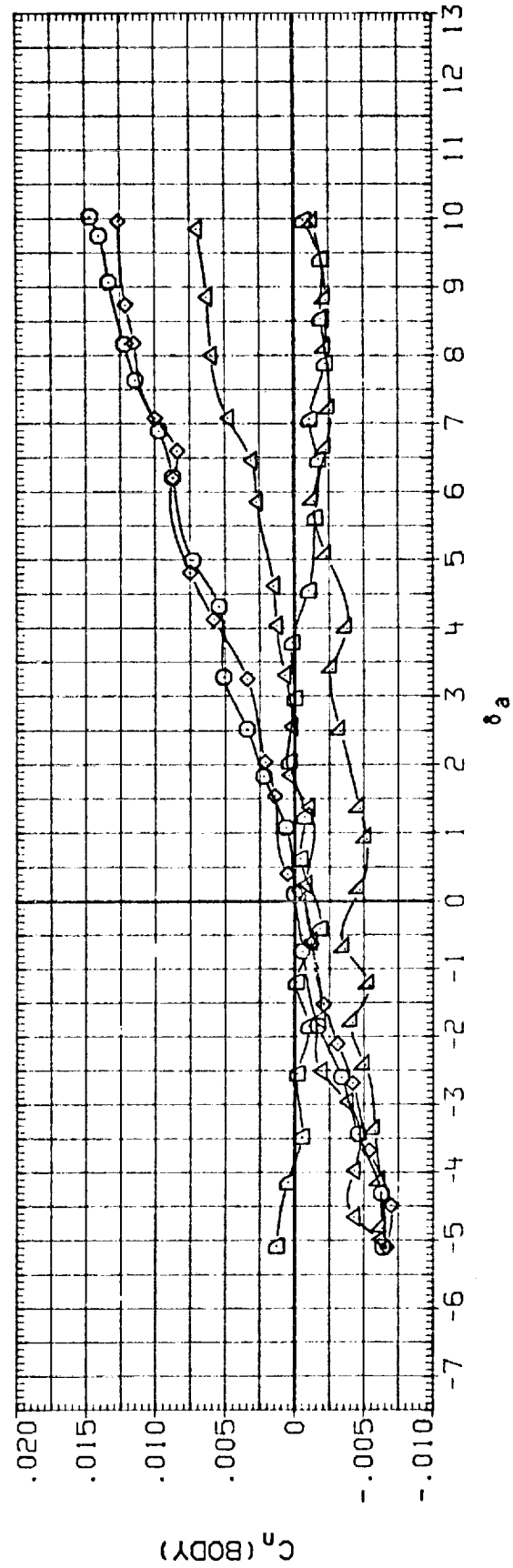
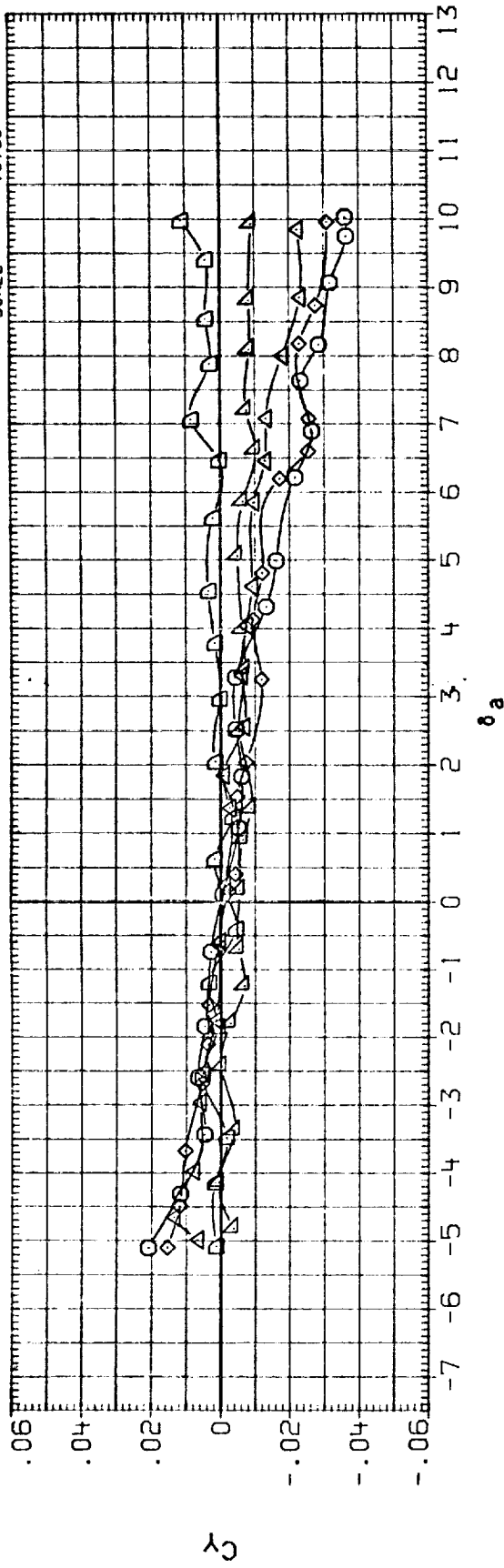


FIG. 24 AILERON LINEARITY, ELEVON = 0

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK107) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK108) | □ | DATA NOT AVAILABLE | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK111) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | BREF 936.6800 IN. X0 |
| (RUK117) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | XMRP 1076.7000 IN. Y0 |
| (RUK119) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | ZMRP 375.0000 IN. Z0 |
| (RUK122) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | .000 | SCALE .0150 |

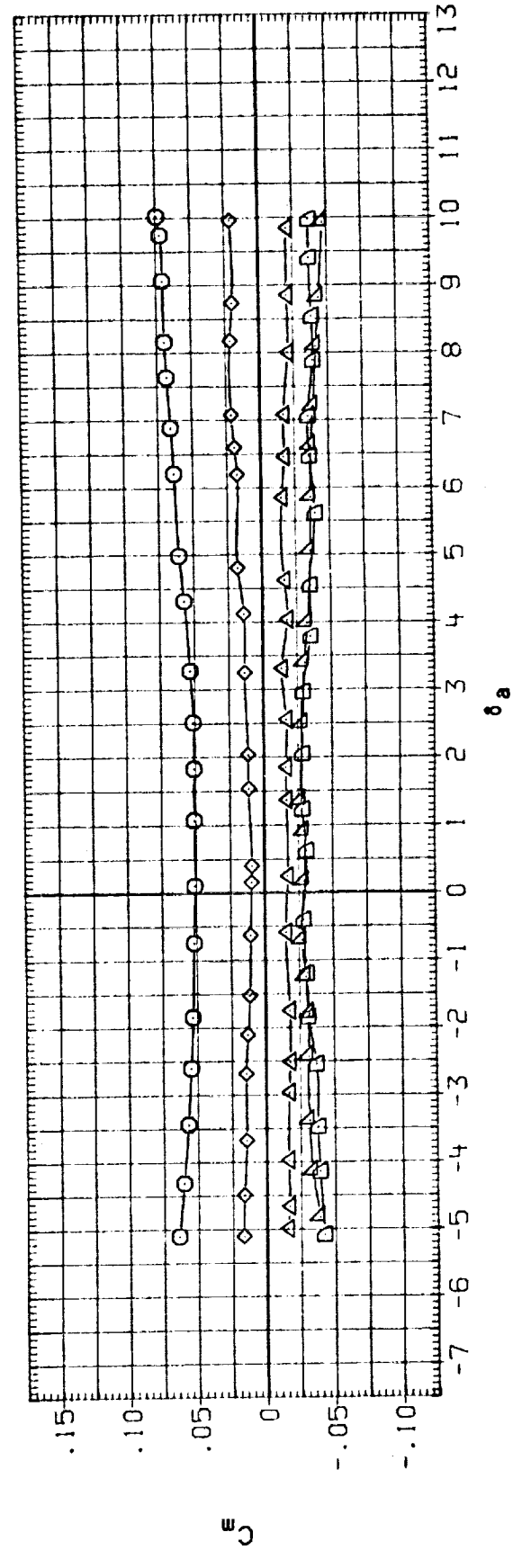
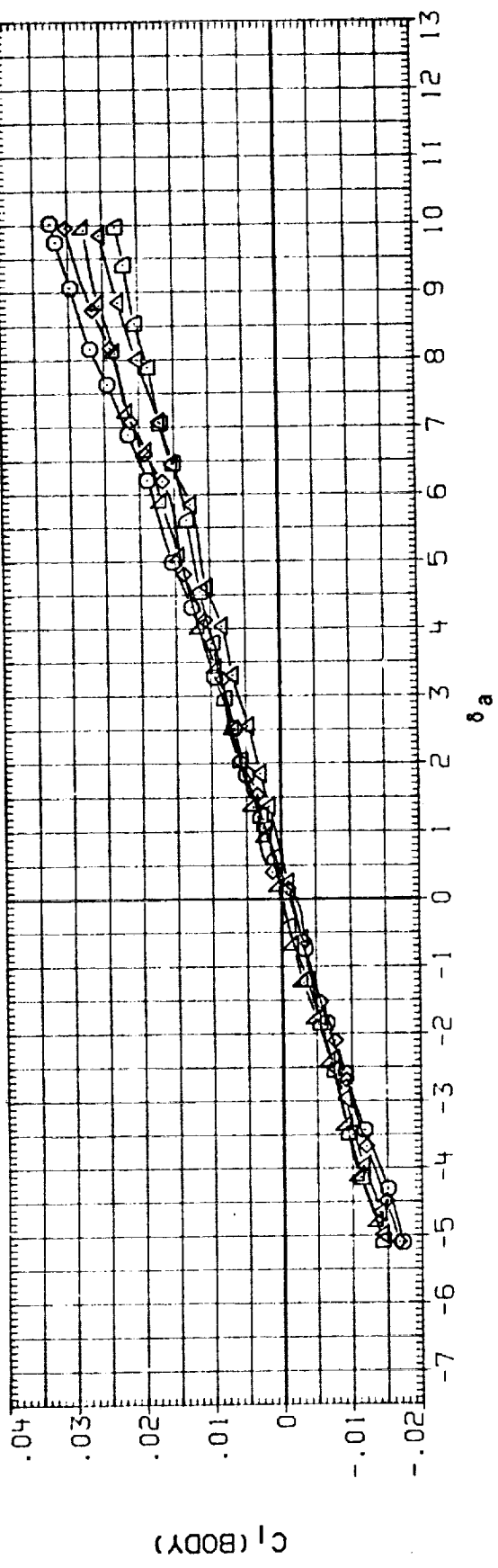


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A)MACH = .95

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK107) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK108) | □ | DATA NOT AVAILABLE | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK111) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK117) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | YMRP 1076.7000 IN. XO |
| (RUK119) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | YMRP .0000 IN. YO |
| (RUK122) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

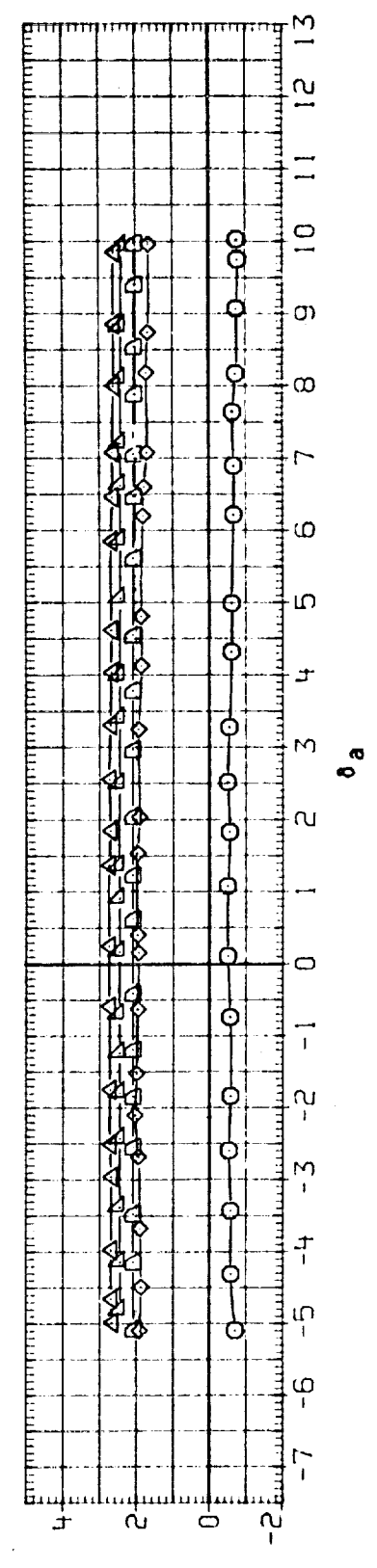
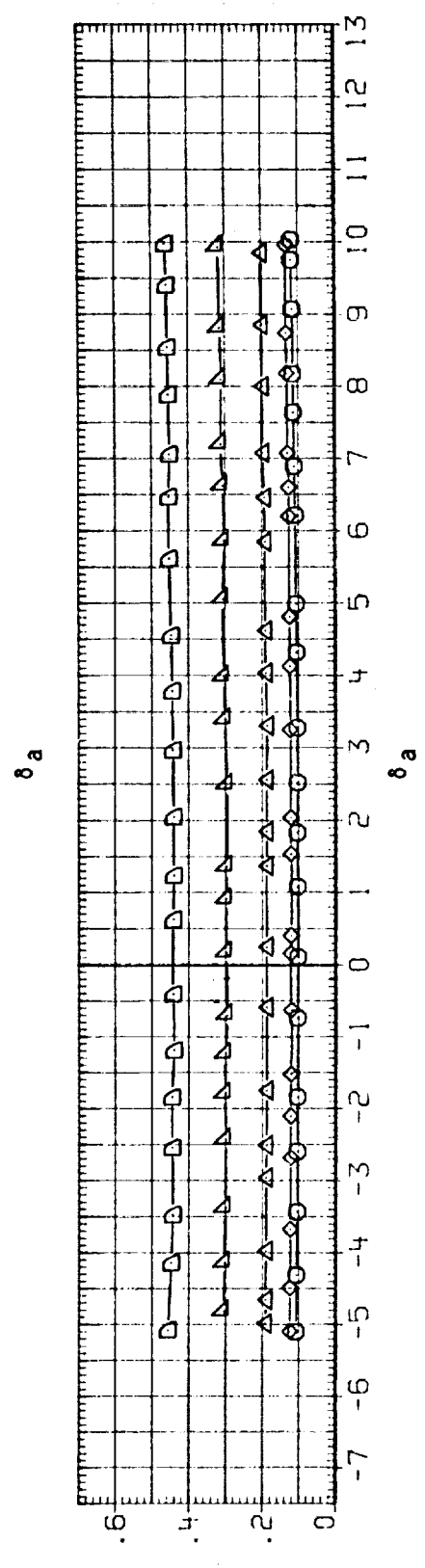
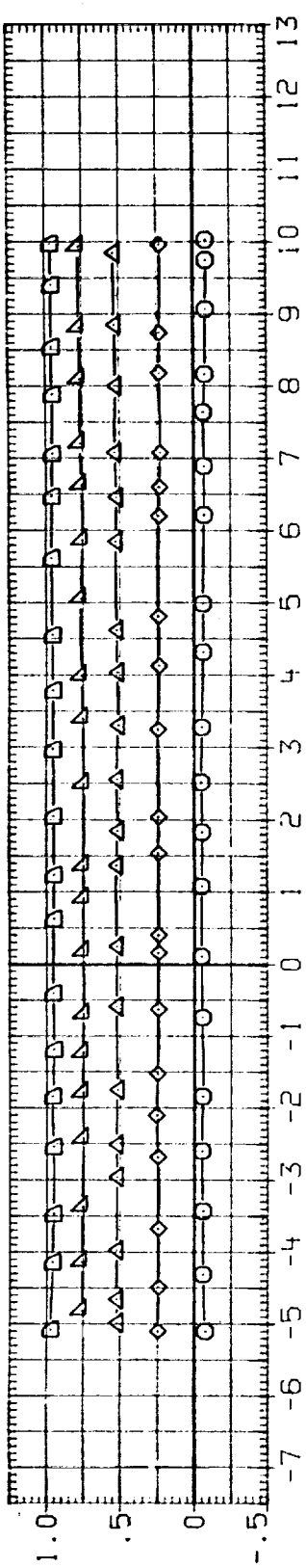


FIG. 24 AILERON LINEARITY, ELEVON = 0

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (CUK107) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK108) | ◇ | DATA NOT AVAILABLE | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK111) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | BREF 936.6800 INCHES |
| (CUK117) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | XPRP 1076.7000 IN. XO |
| (CUK119) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | YPRP .0000 IN. YO |
| (CUK122) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | .000 | ZPRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

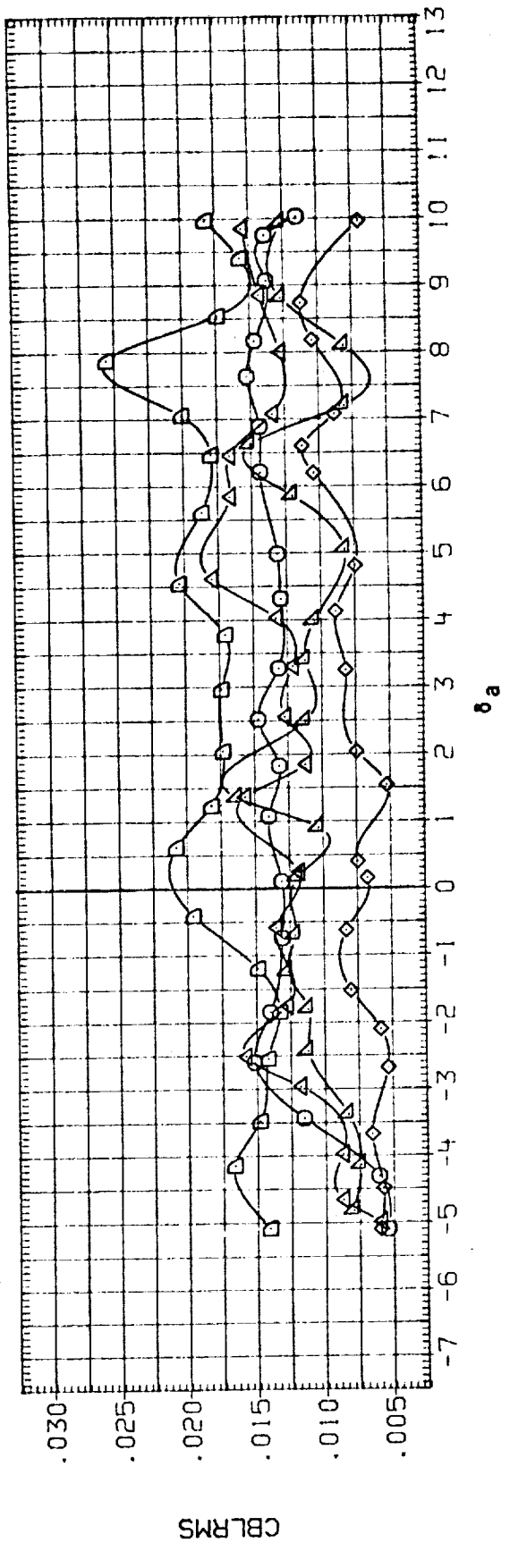
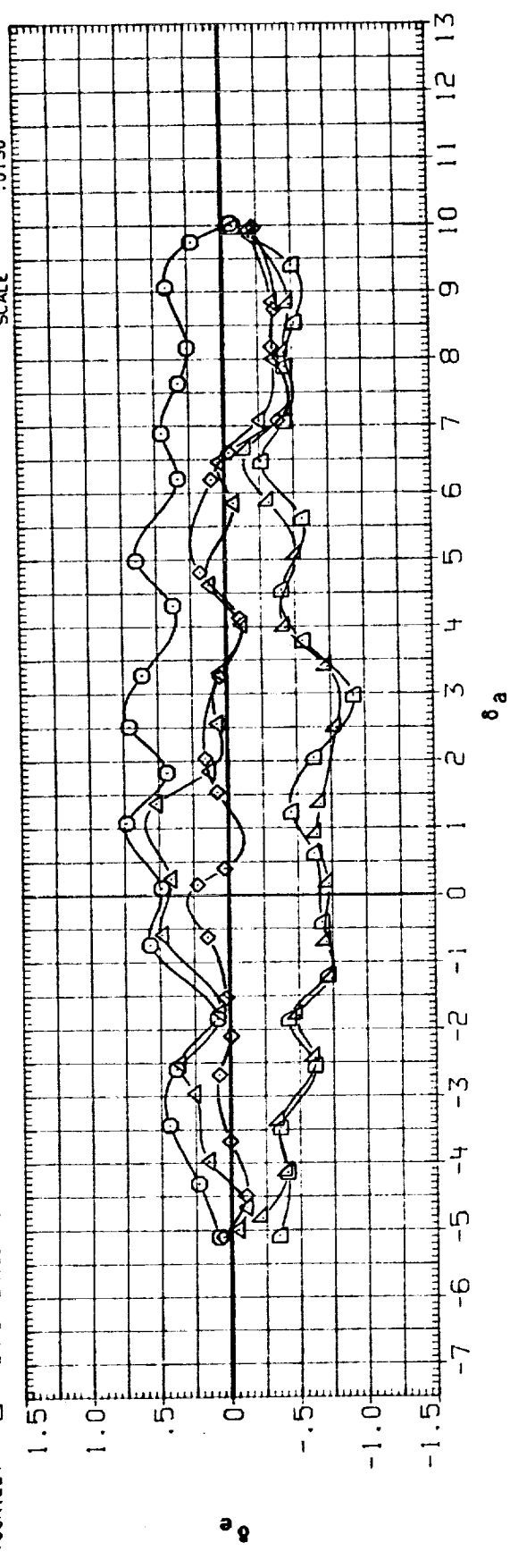


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A)MACH = .95

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK107) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK108) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK111) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK117) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | XMRP 1076.7000 IN. YO |
| (RUK119) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | YMRP .0000 IN. YO |
| (RUK122) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

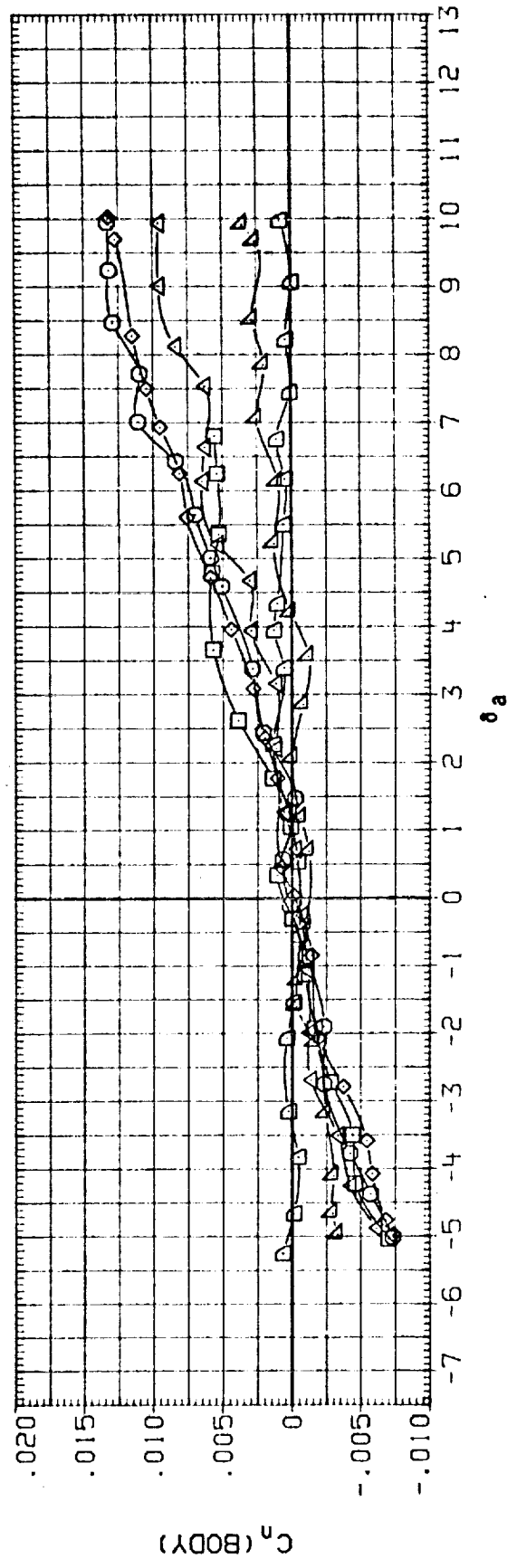
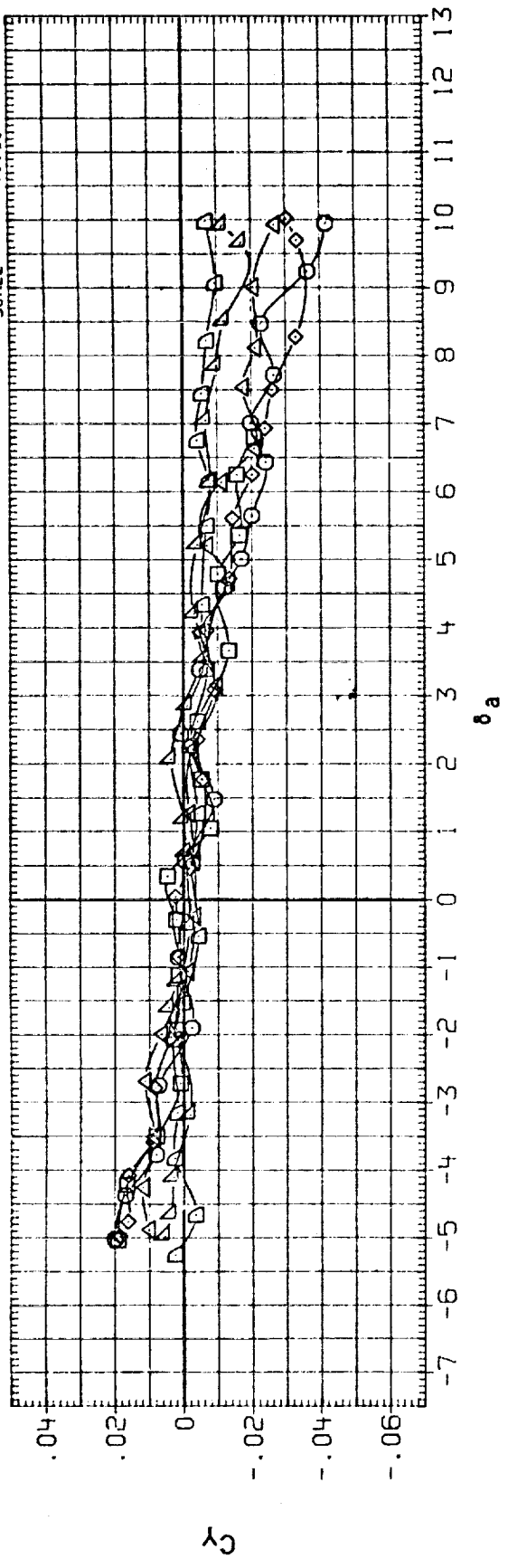


FIG. 24 AILERON LINEARITY, ELEVON = 0

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/1 | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK107) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK108) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK111) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 5.000 | .000 | .000 | BRLF 936.6800 INCHES |
| (RUK117) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 10.000 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK119) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 15.000 | .000 | .000 | YMRP .0000 IN. YO |
| (RUK122) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 20.000 | .000 | .000 | ZMRP 375.0000 IN. ZO |

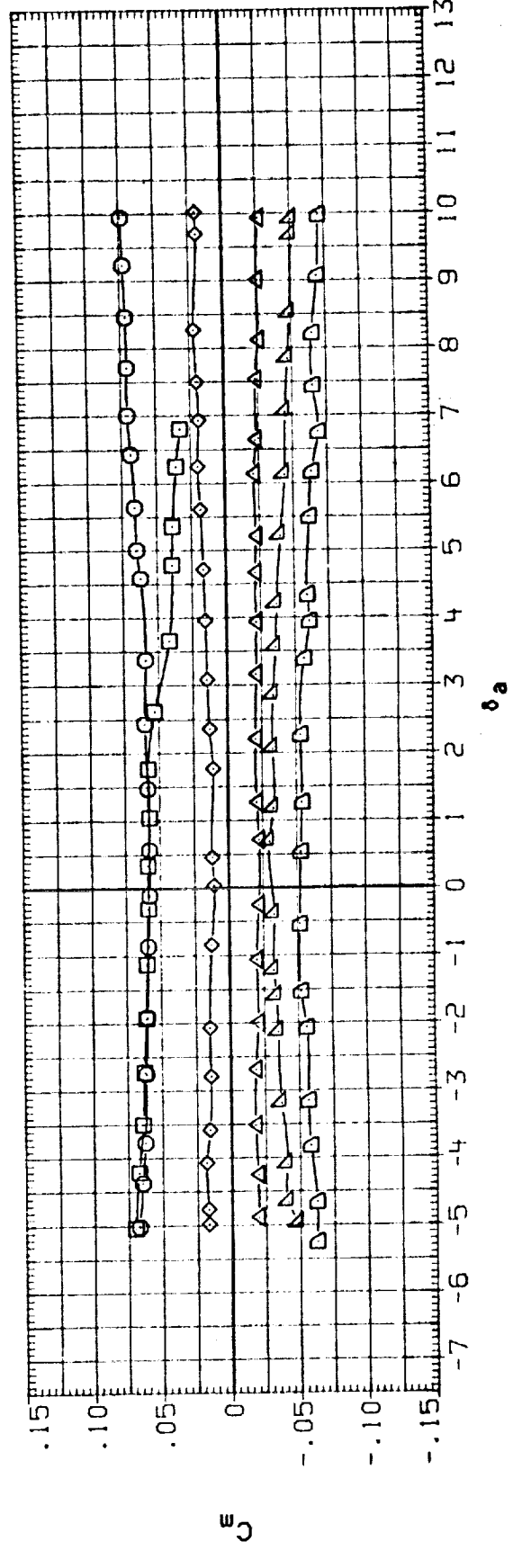
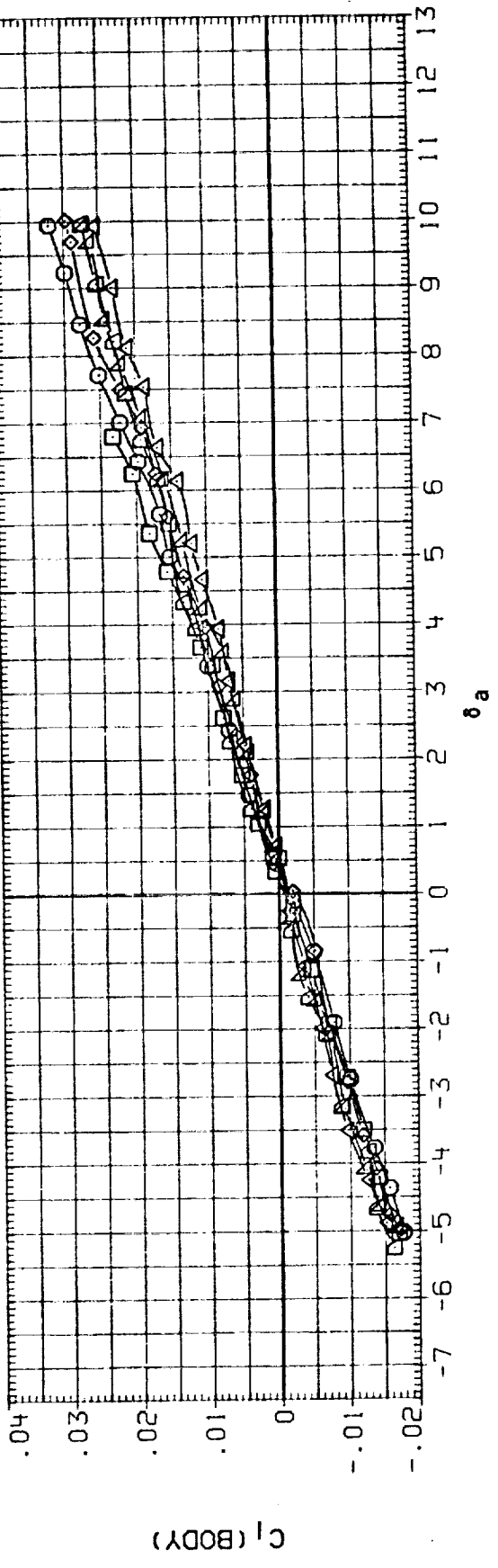


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = .98

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|--------|-----------------------|
| (RUK107) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK108) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK111) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK117) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK119) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | YMRP .0000 IN. YO |
| (RUK122) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

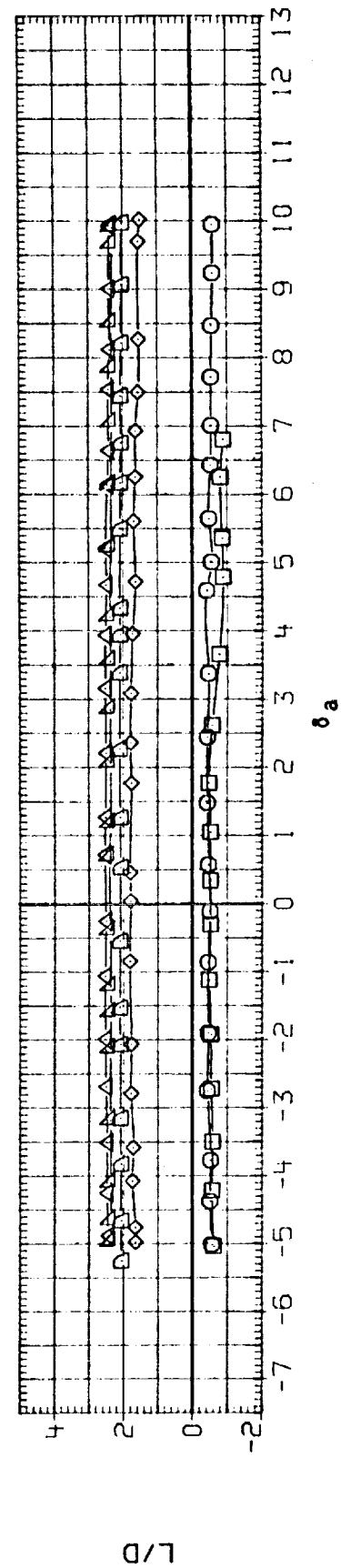
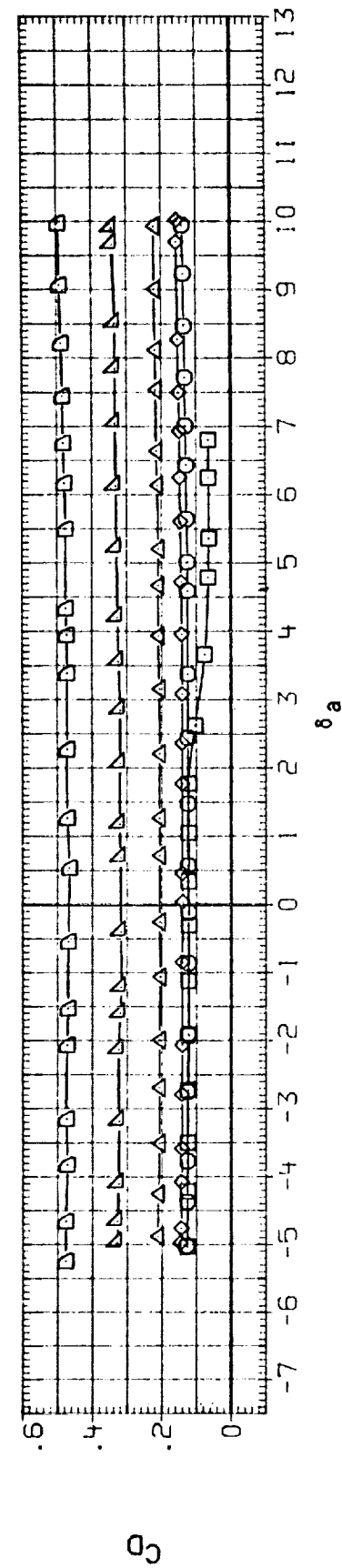
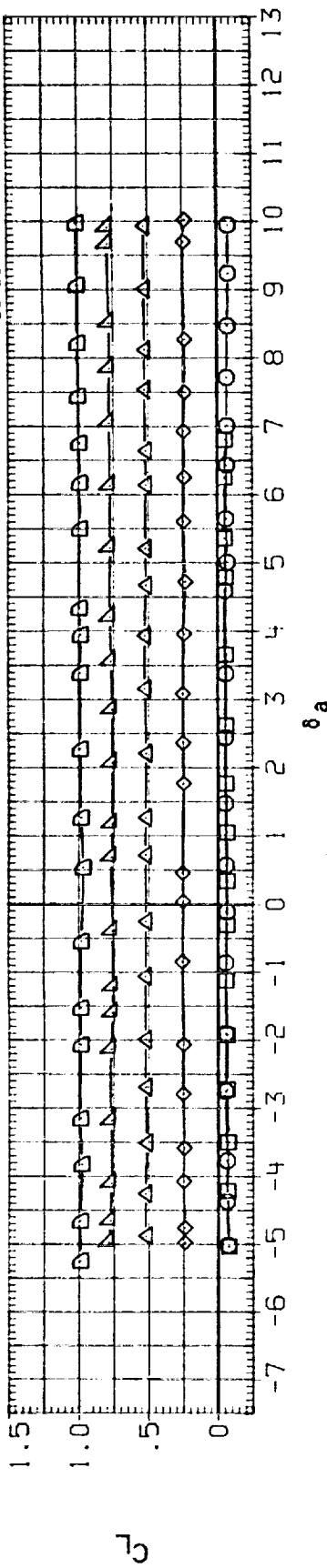


FIG. 24 AILERON LINEARITY, ELEVON = 0

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|------------------------|
| (CUK107) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ. FT. |
| (CUK108) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK111) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | BREF 936.6800 INCHES |
| (CUK117) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (CUK119) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | YMRP 375.0000 IN. YO |
| (CUK122) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

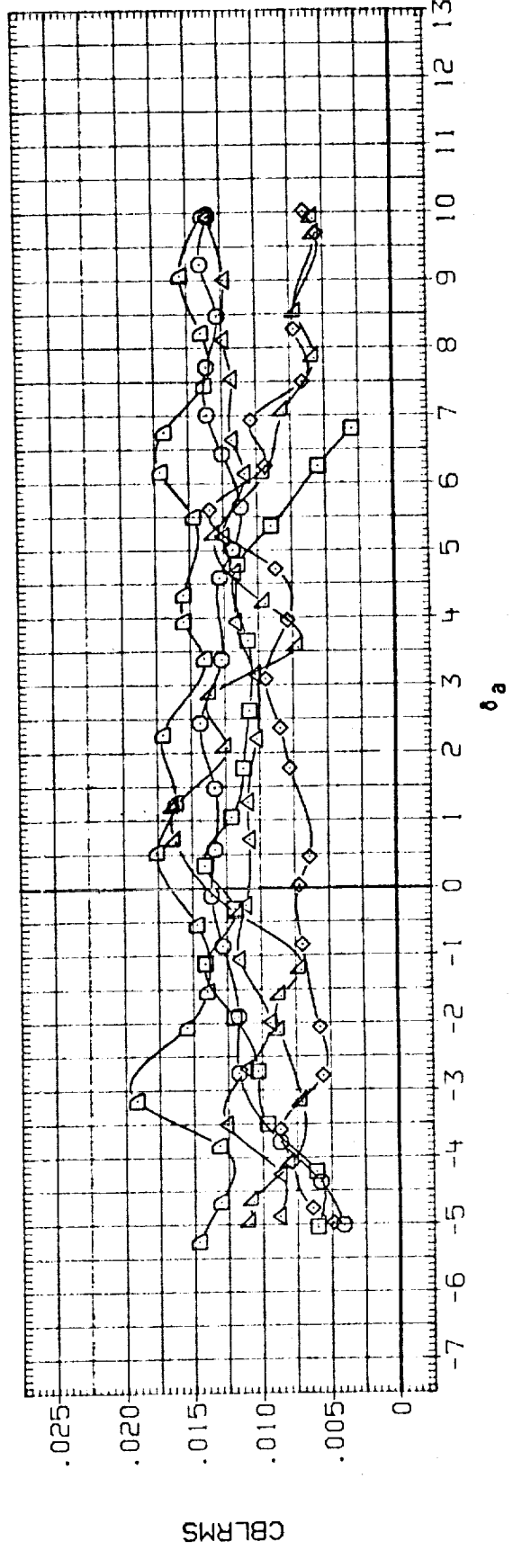
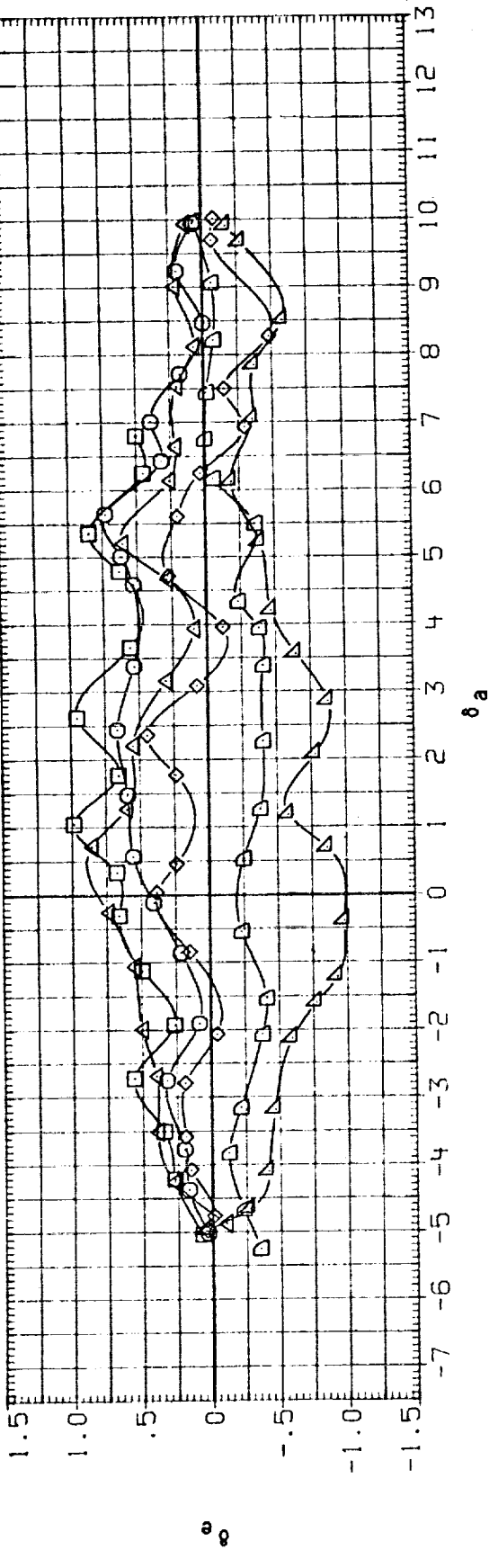


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = .98

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK107) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK108) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK111) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK117) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK119) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | YMRP .0000 IN. YO |
| (RUK122) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

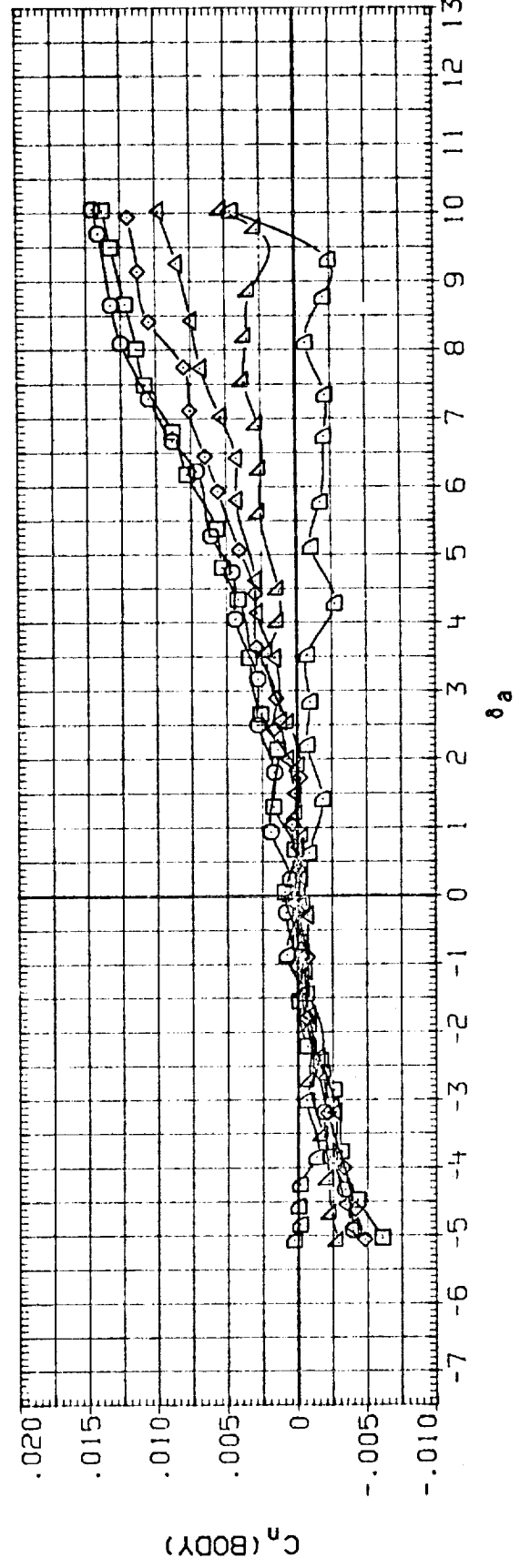
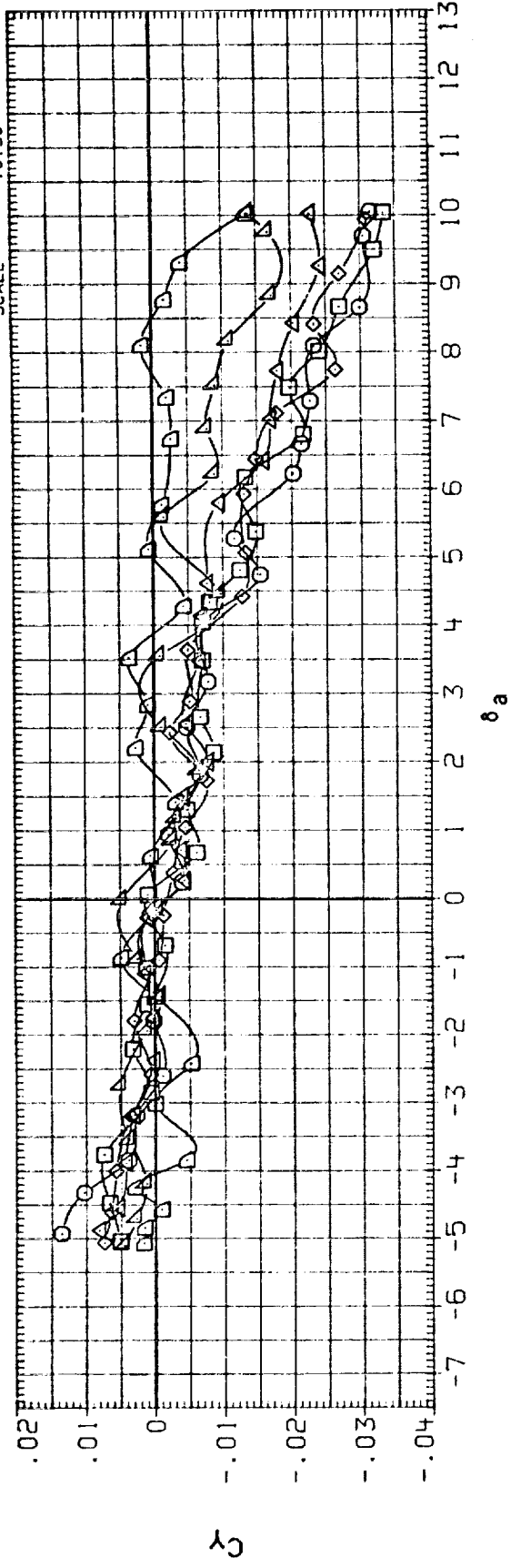


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = 1.05

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK107) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK108) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK111) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK117) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK119) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | YMRP .0000 IN. YO |
| (RUK122) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

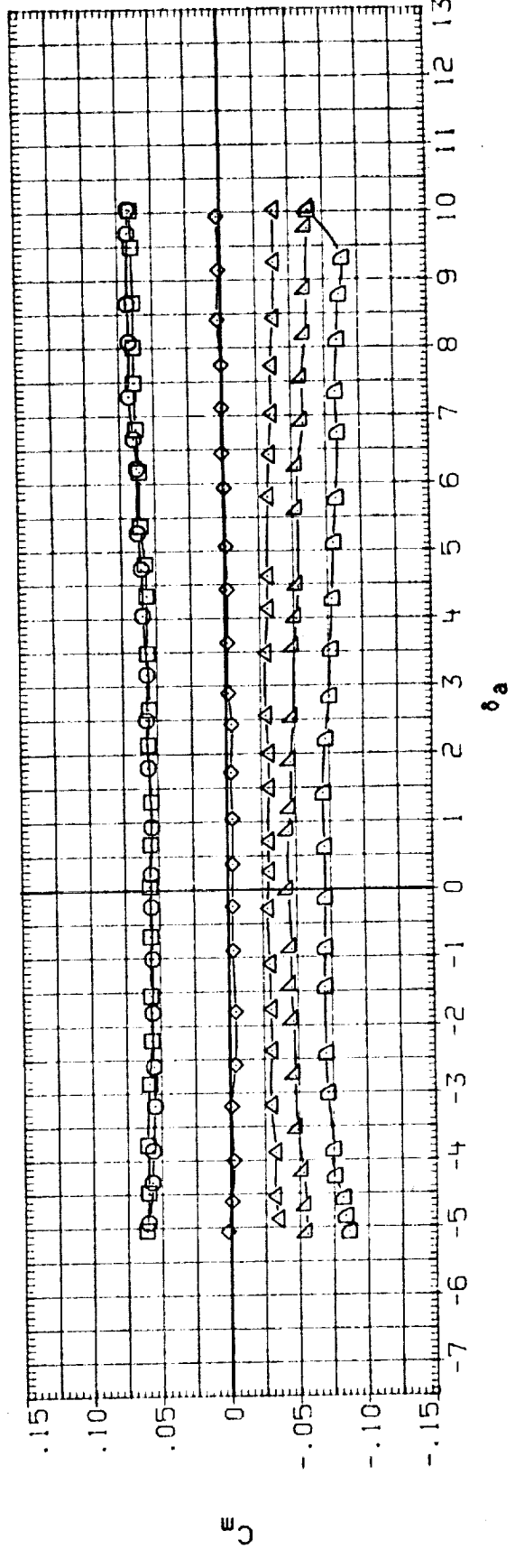
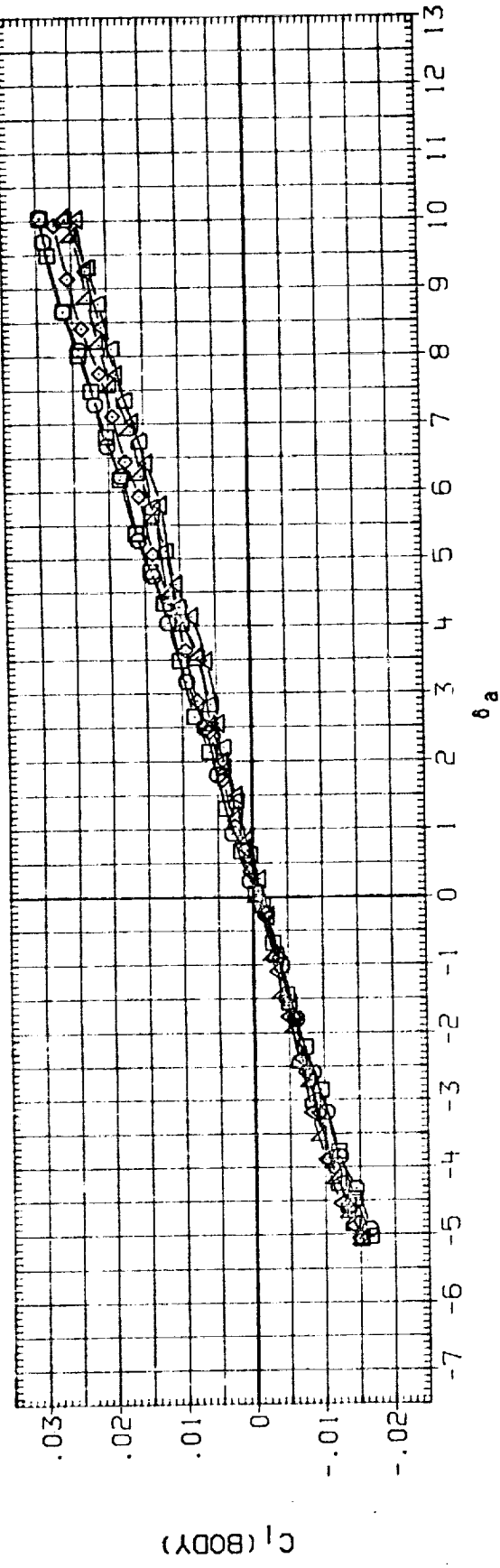


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = 1.05

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK107) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK108) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK111) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | BREF 936.6800 IN. XO |
| (RUK117) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | .000 | XMRP 1076.7000 IN. YO |
| (RUK119) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | ZMRP 375.0000 IN. ZO |
| (RUK122) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | .0150 | SCALE |

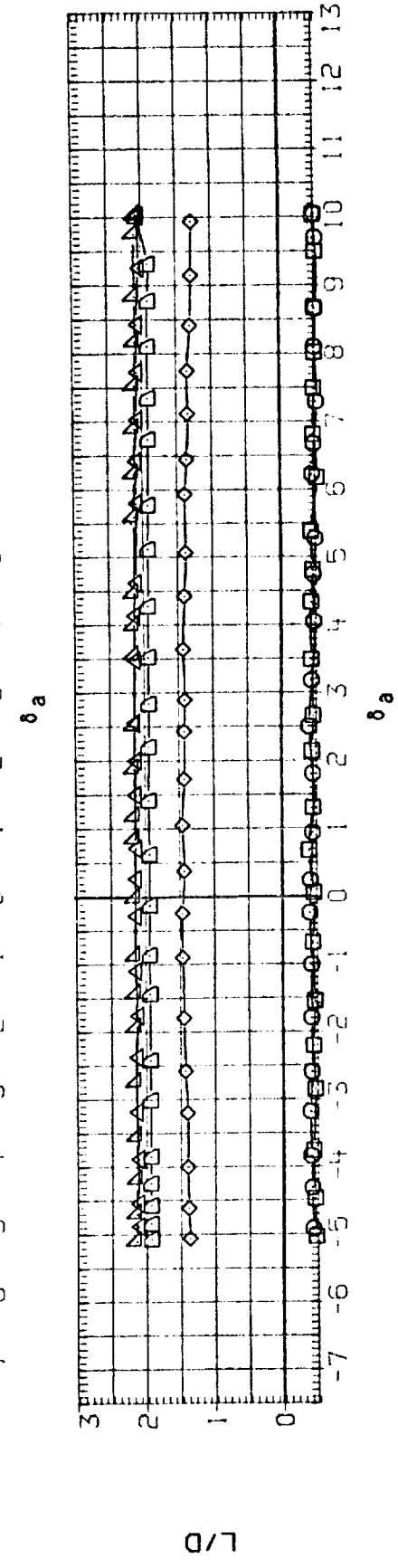
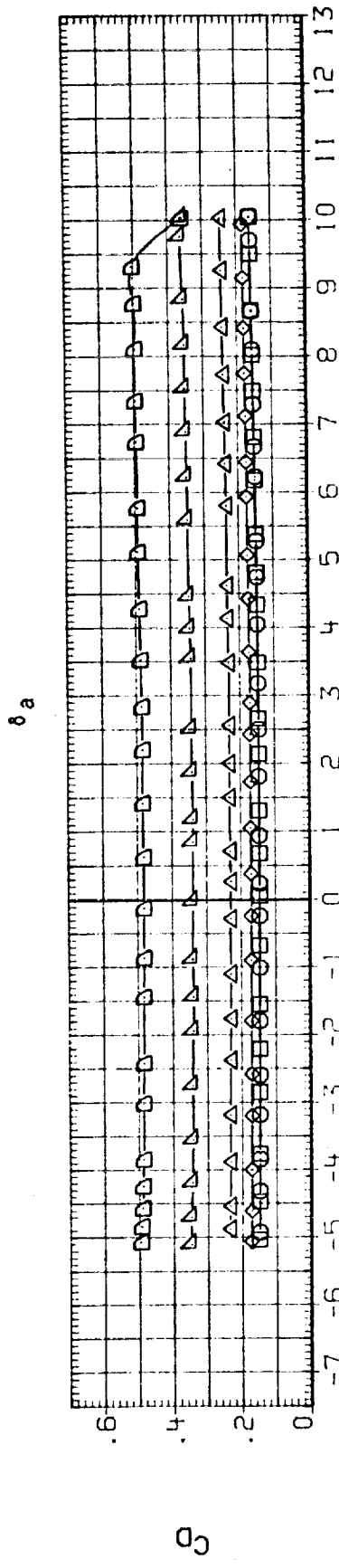
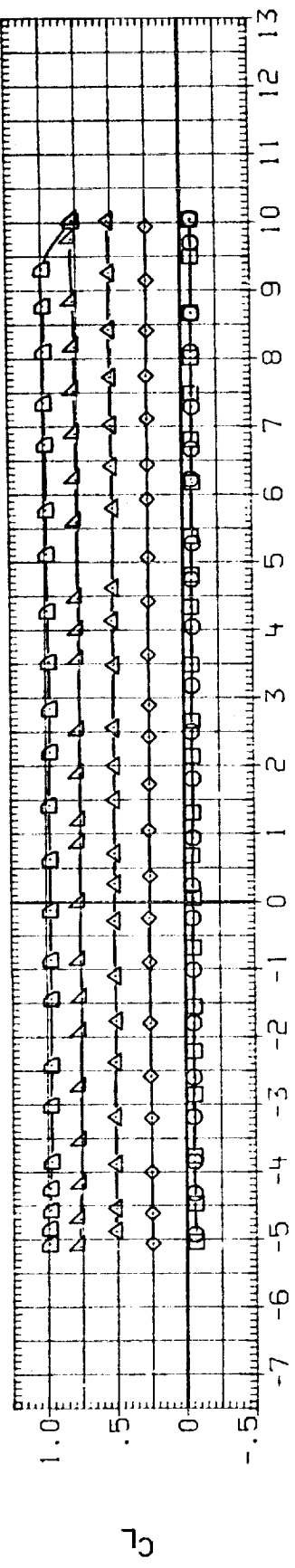


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = 1.05

REFERENCE INFORMATION

| | | |
|-------|-----------|---------|
| SREF | 2690.0000 | SQ. FT. |
| LREF | 474.8000 | INCHES |
| BREF | 936.6800 | INCHES |
| YMPP | 1076.7000 | IN. X0 |
| ZMPP | 375.0000 | IN. Y0 |
| SCALE | .0150 | IN. Z0 |

ELEVON

| | |
|-------|-------|
| ALPHA | .000 |
| BETA | .000 |
| RN/L | 4.500 |

CONFIGURATION DESCRIPTION

| | |
|---------------------|------------------------|
| LA70 BASELINE NO. 3 | (GAPS SEALED, GRIT ON) |
| LA70 BASELINE NO. 3 | (GAPS SEALED, GRIT ON) |
| LA70 BASELINE NO. 3 | (GAPS SEALED, GRIT ON) |
| LA70 BASELINE NO. 3 | (GAPS SEALED, GRIT ON) |
| LA70 BASELINE NO. 3 | (GAPS SEALED, GRIT ON) |

DATA SET SYMBOL

| | |
|----------|---|
| (CUK107) | ○ |
| (CUK108) | □ |
| (CUK111) | ◇ |
| (CUK117) | △ |
| (CUK119) | ▽ |
| (CUK122) | ◇ |

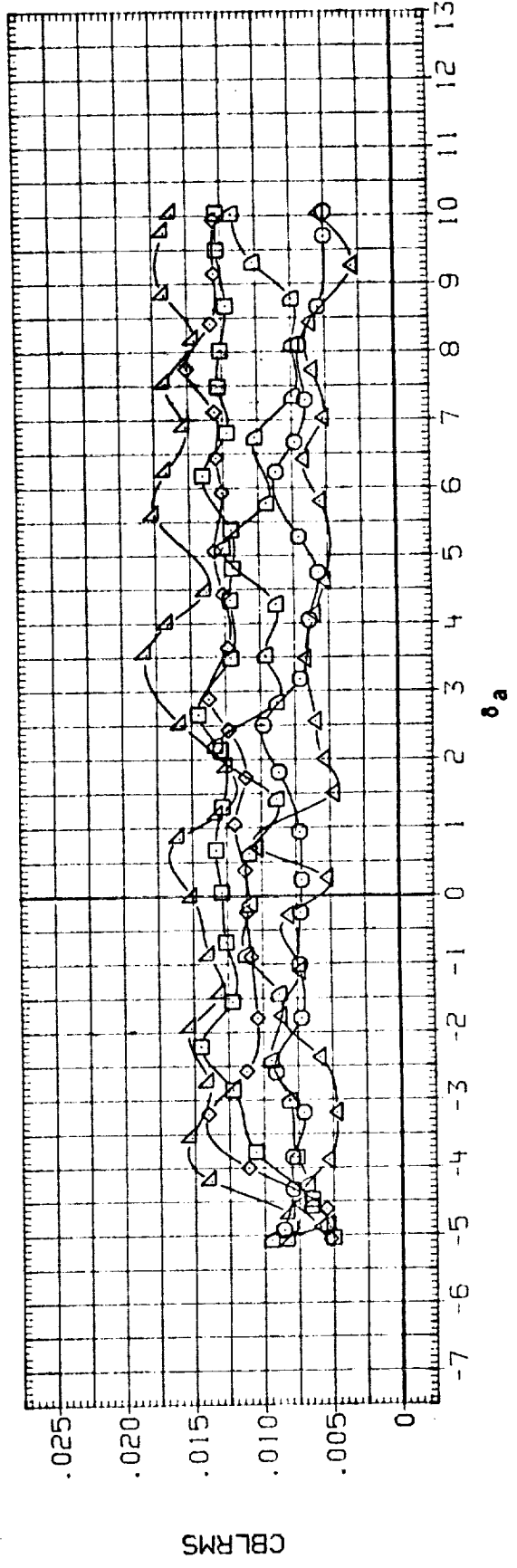
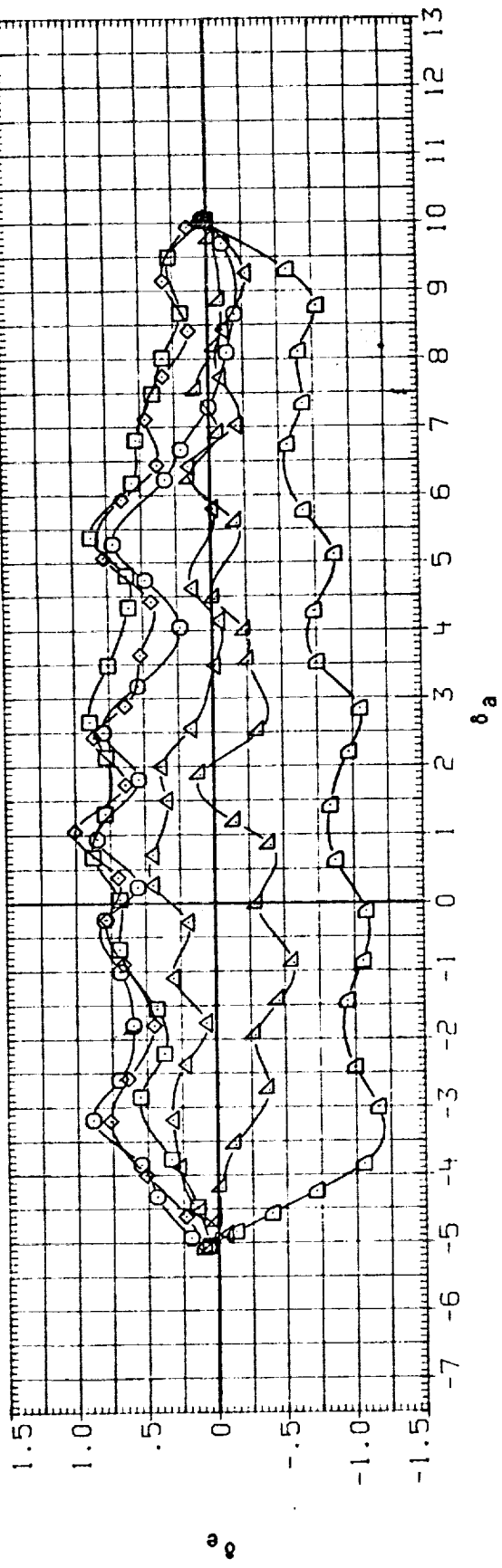


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = 1.05

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|--------|-----------------------|
| (RUK109) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK1121) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 5.000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK1118) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 10.000 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK120) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 15.000 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK123) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 20.000 | .000 | .000 | YMRP 375.0000 IN. YO |
| | | | | | | ZMRP 0150 IN. ZO |

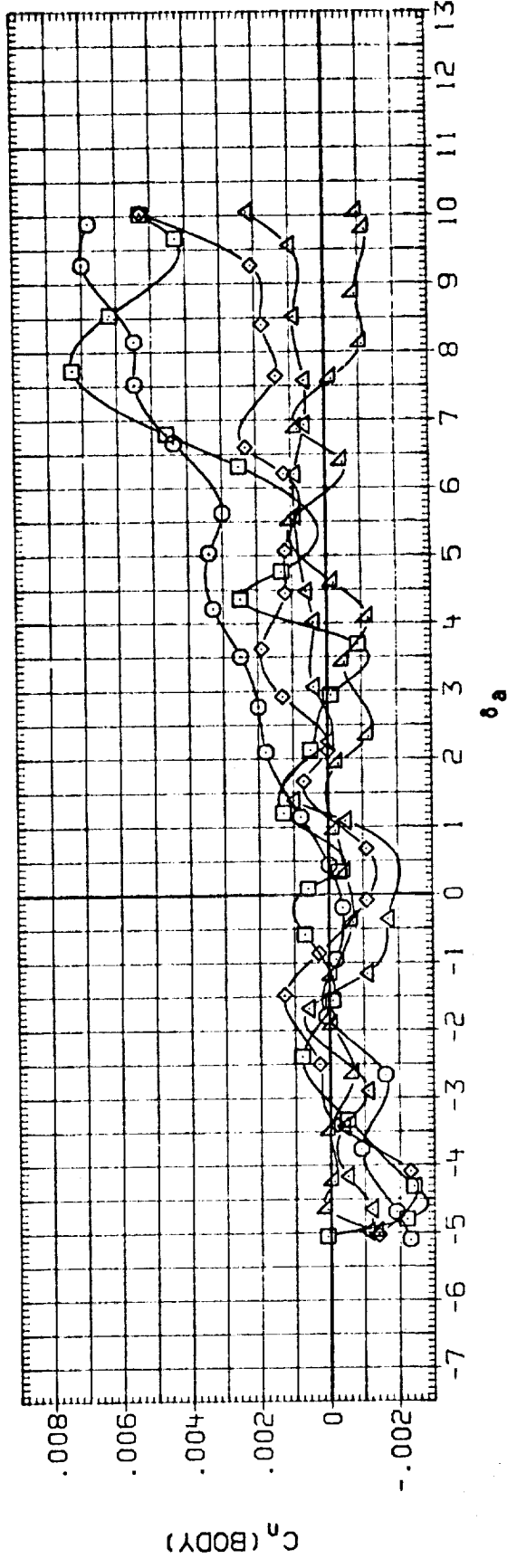
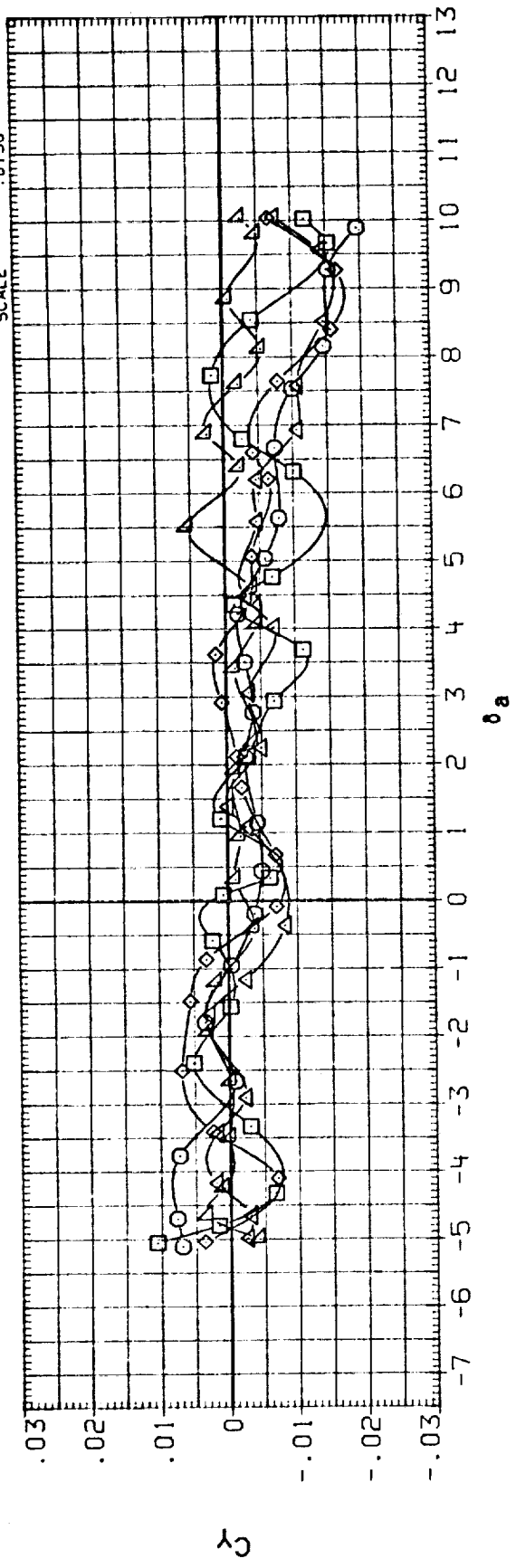


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = 1.20

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

ELEVON
 BETA .000
 ALPHA .000
 RN/L 4.000
 4.000
 4.000
 4.000
 4.000
 4.000

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

DATA SET SYMBOL
 (RUK109) ○
 (RUK112) □
 (RUK118) ◇
 (RUK120) △
 (RUK123) ▽

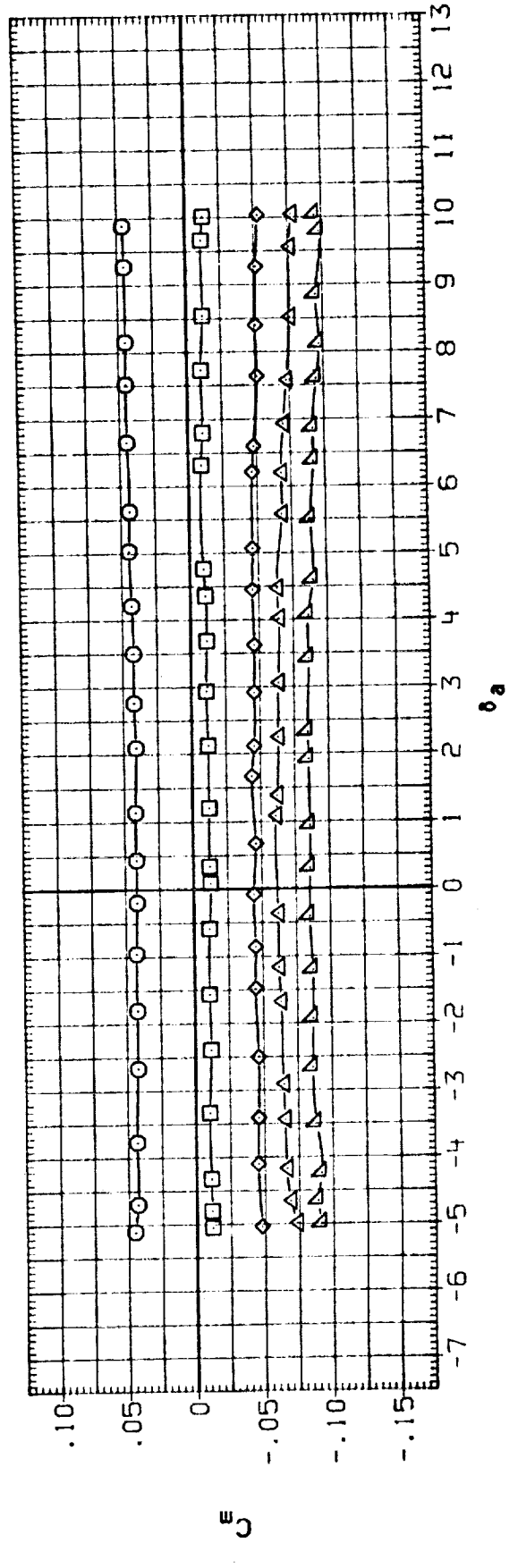
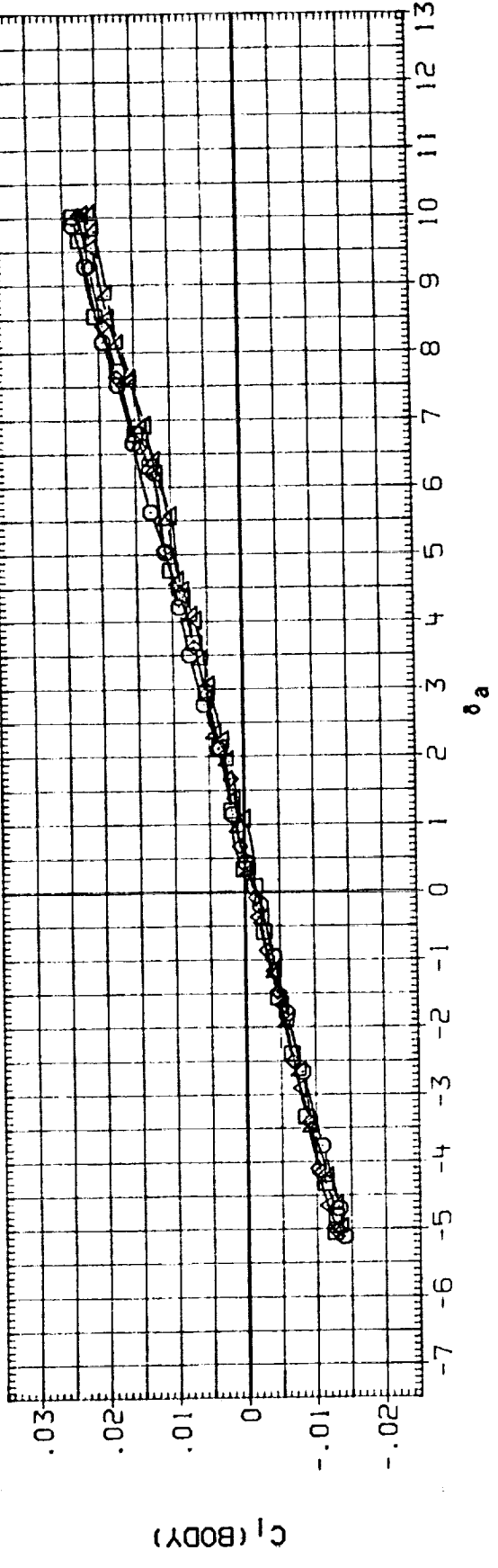


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = 1.20

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|--------|-----------------------|
| (RUK109) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | .000 | .000 | SREF | 2690.0000 SQ. FT. |
| (RUK112) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 5.000 | .000 | LREF | 474.8000 INCHES |
| (RUK118) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 10.000 | .000 | BREF | 936.6800 INCHES |
| (RUK120) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 15.000 | .000 | YMRP | 1076.7000 IN. XO |
| (RUK123) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 20.000 | .000 | ZMRP | .0000 IN. YO |
| | | | | | SCALE | .0150 |

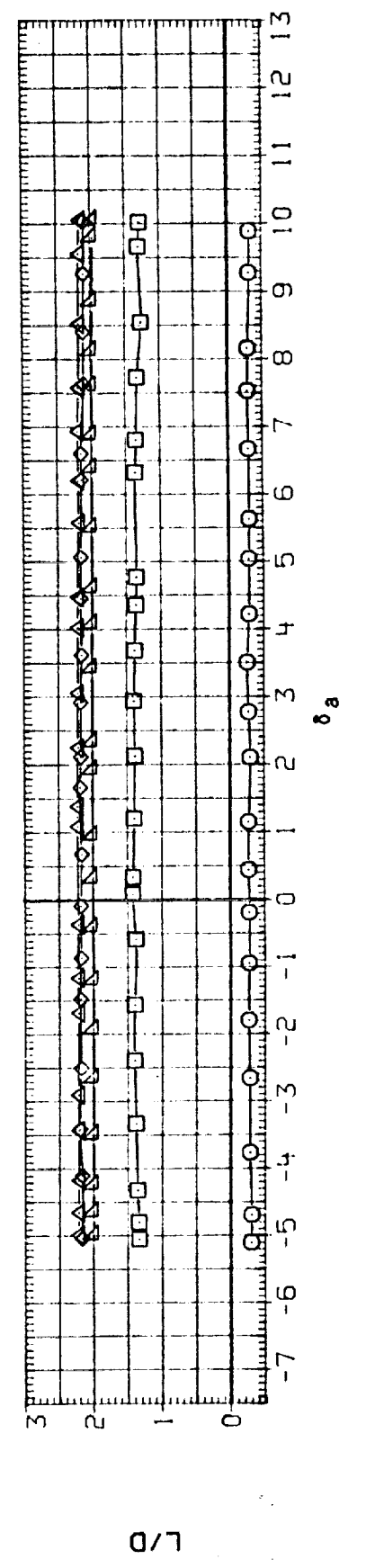
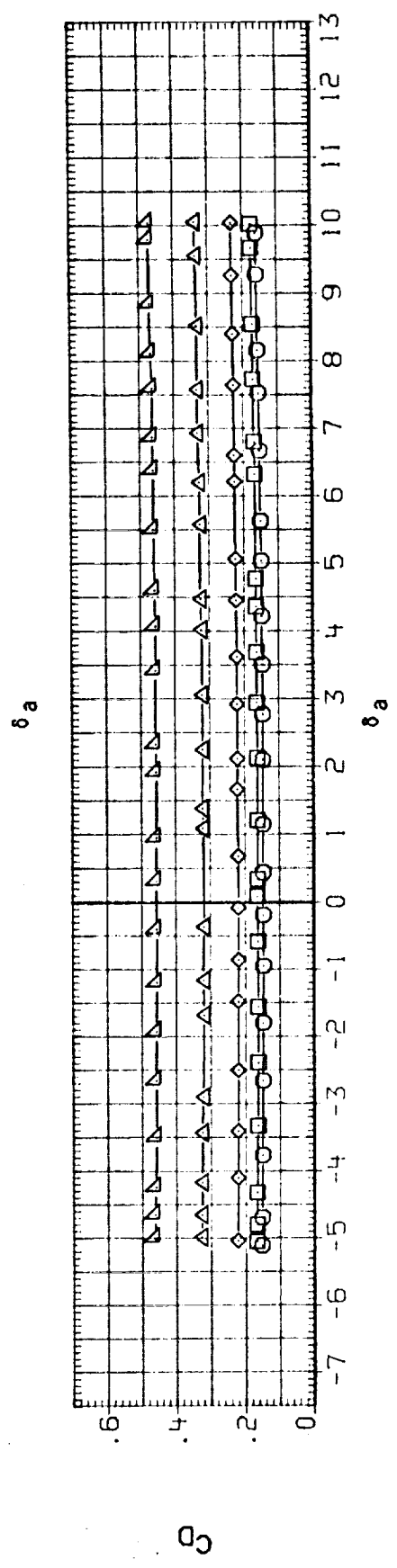
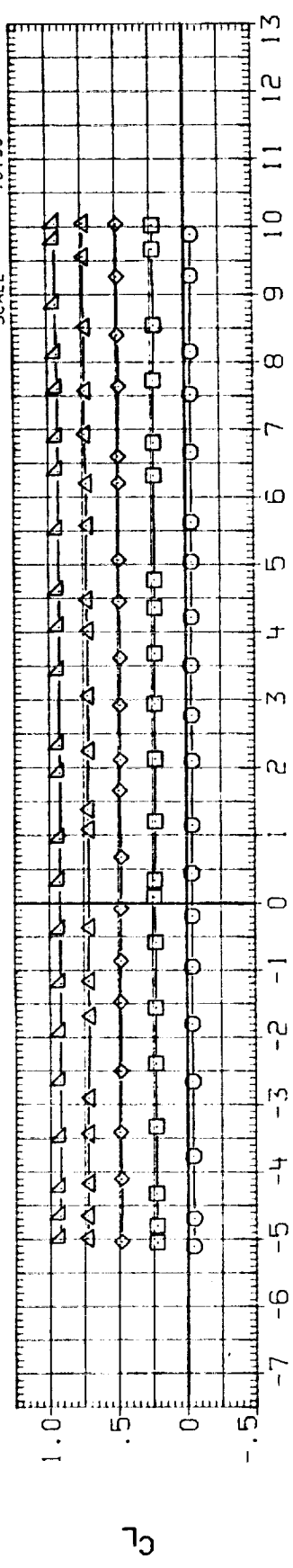


FIG. 24 AILERON LINEARITY, ELEVON = 0

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|--------|-----------------------|
| (CUK109) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK112) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 5.000 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK118) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 10.000 | .000 | .000 | BREF 936.6800 INCHES |
| (CUK120) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 15.000 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (CUK123) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 20.000 | .000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |

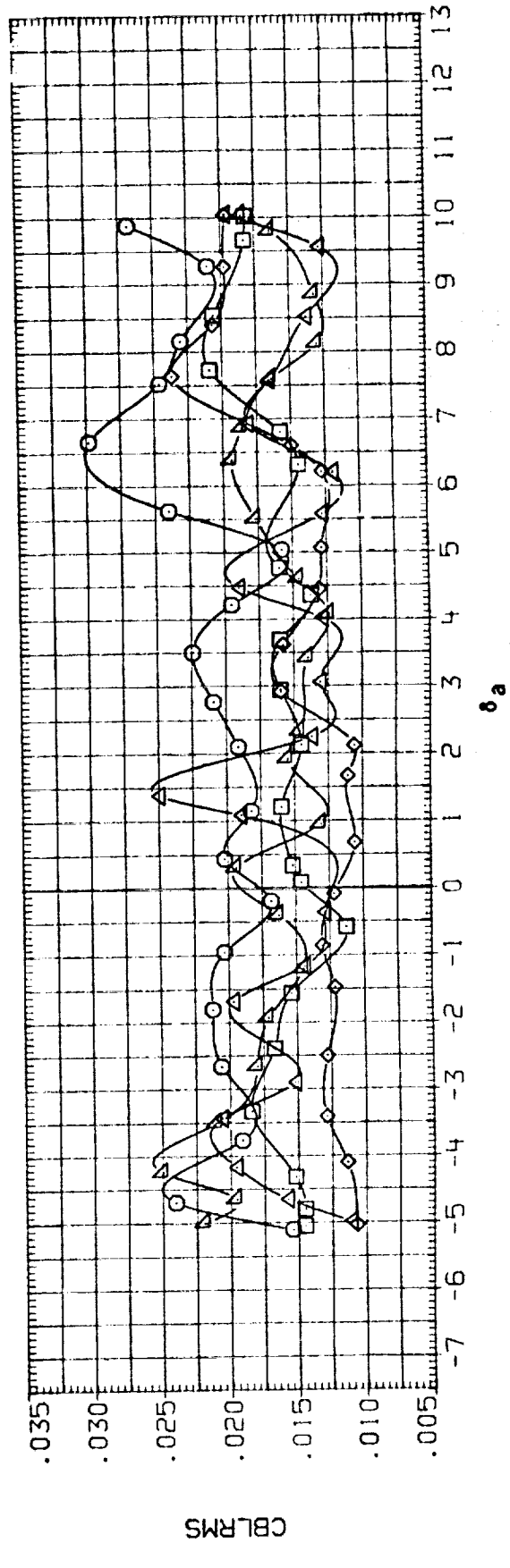
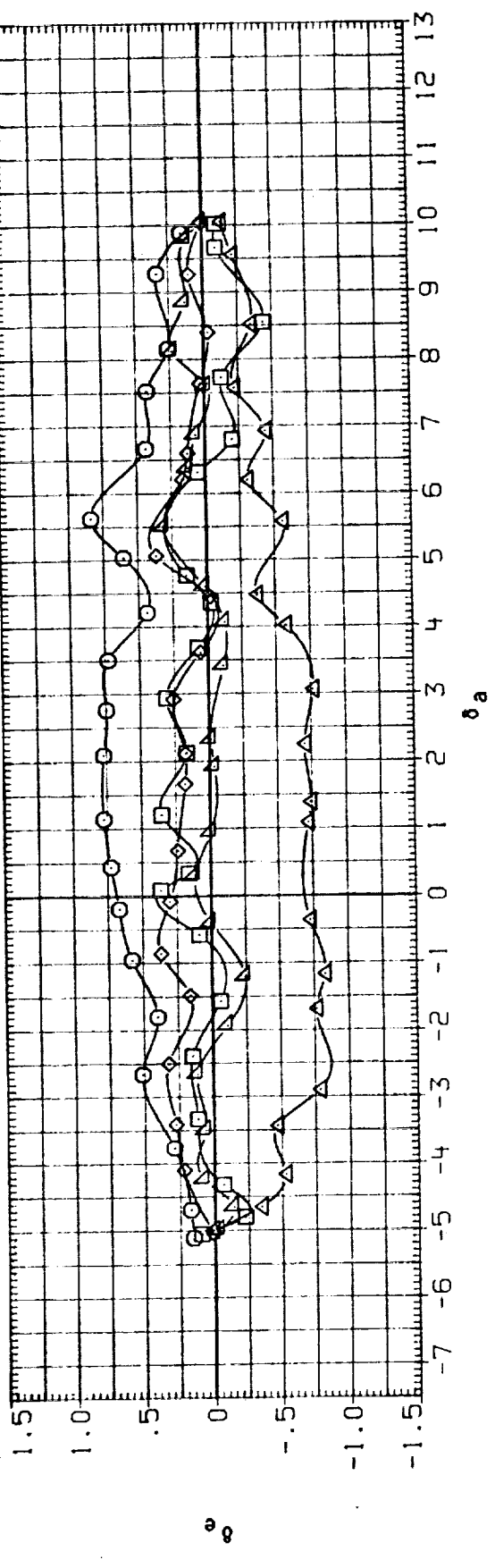


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = 1.20

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|---------|-----------------------|
| (RUK097) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | -10.000 | SREF 2690.0000 SQ.FT. |
| (RUK099) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | -10.000 | LREF 474.8000 INCHES |
| (RUK101) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | -10.000 | BREF 936.6800 INCHES |
| (RUK103) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | -10.000 | XMRP 1076.7000 IN. XO |
| (RUK105) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | -10.000 | YMRP 375.0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

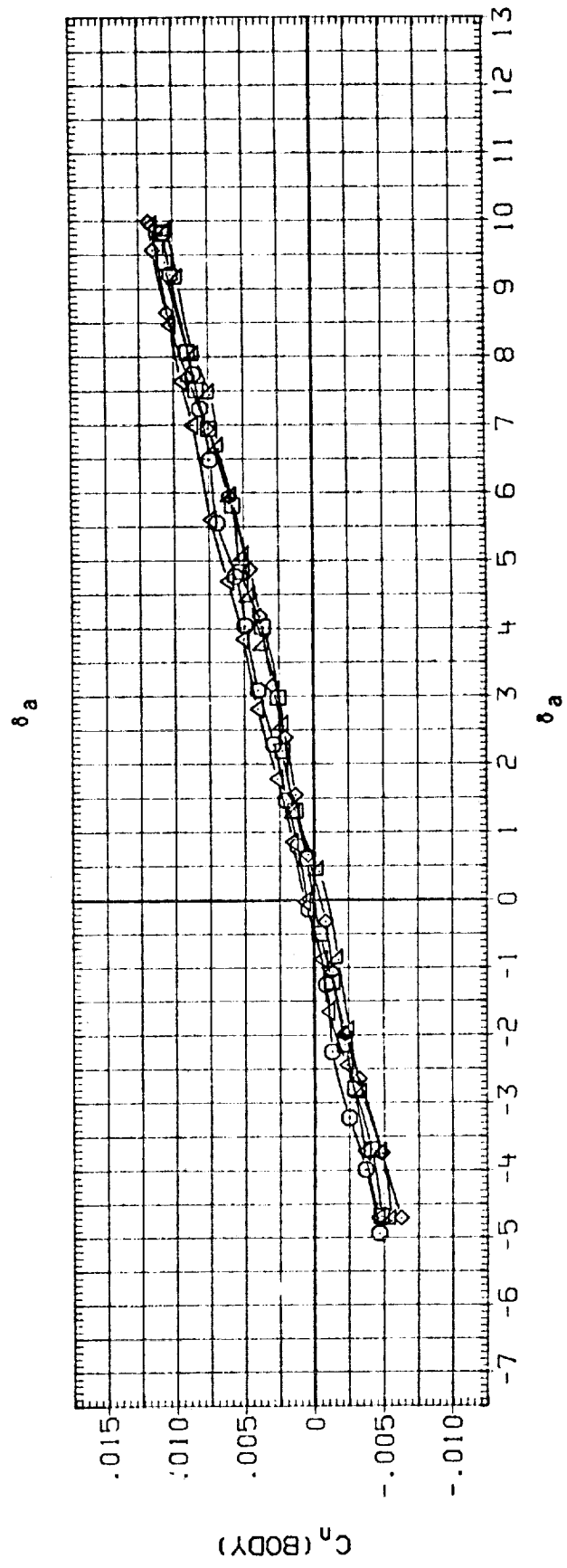
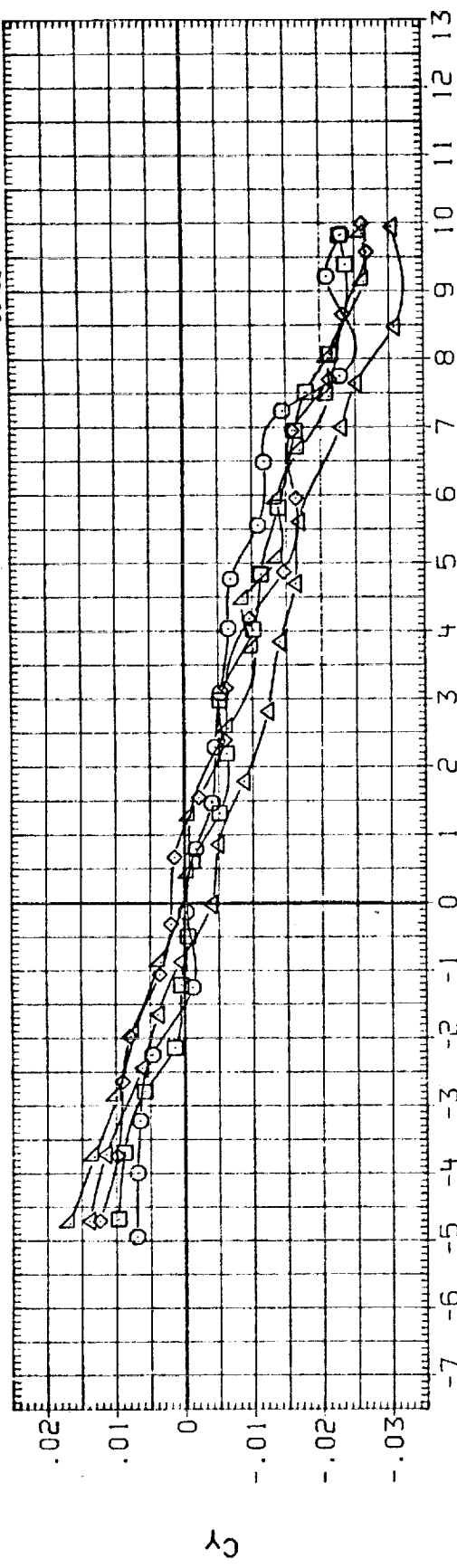


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

| | | | | |
|----------|---|------|----------------|------------------------|
| (RUK097) | ○ | LA70 | BASELINE NO. 3 | (GAPS SEALED, CRIT ON) |
| (RUK099) | □ | LA70 | BASELINE NO. 3 | (GAPS SEALED, CRIT ON) |
| (RUK101) | ◇ | LA70 | BASELINE NO. 3 | (GAPS SEALED, CRIT ON) |
| (RUK103) | △ | LA70 | BASELINE NO. 3 | (GAPS SEALED, CRIT ON) |
| (RUK105) | ▽ | LA70 | BASELINE NO. 3 | (GAPS SEALED, CRIT ON) |

RV/L ALPHA BETA ELEVON

| | | | |
|-------|--------|------|---------|
| 4.500 | .000 | .000 | -10.000 |
| 4.500 | 5.000 | .000 | -10.000 |
| 4.500 | 10.000 | .000 | -10.000 |
| 4.500 | 15.000 | .000 | -10.000 |
| 4.500 | 20.000 | .000 | -10.000 |

REFERENCE INFORMATION

| | | |
|------|-----------|--------|
| SREF | 2690.0000 | SQ.FT. |
| LREF | 474.8000 | INCHES |
| BREF | 936.6800 | INCHES |
| XMRP | 1076.7000 | IN. XO |
| YMRP | .0000 | IN. YO |
| ZMRP | 375.0000 | IN. ZO |

SCALE .0150

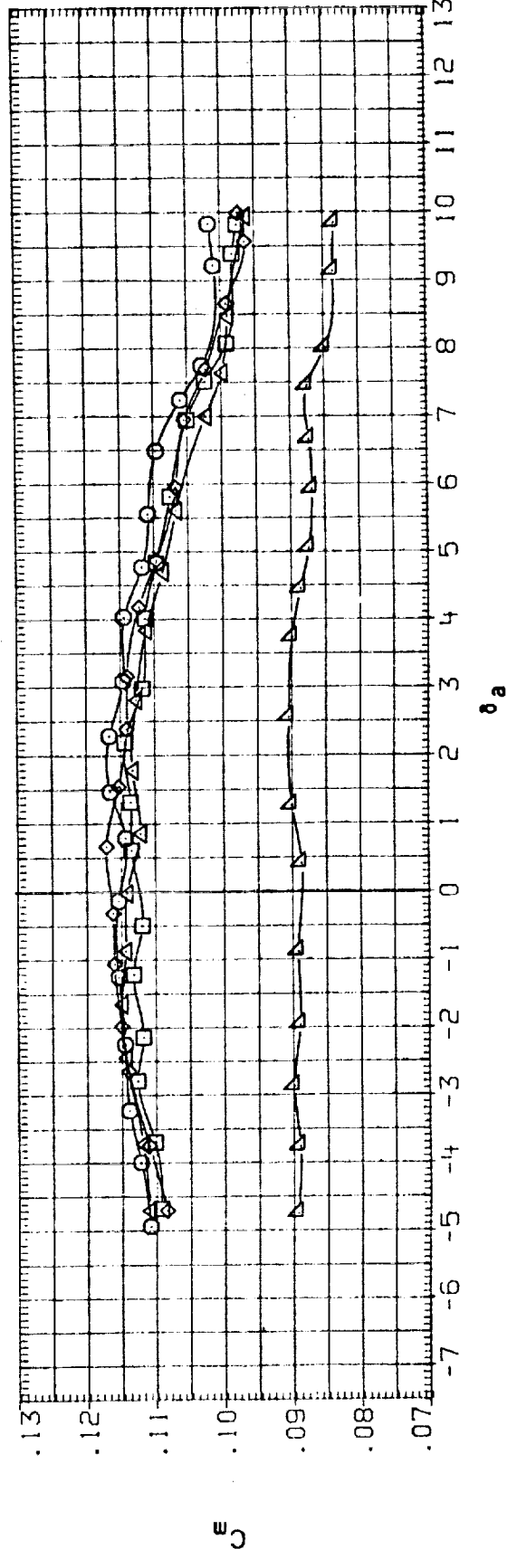
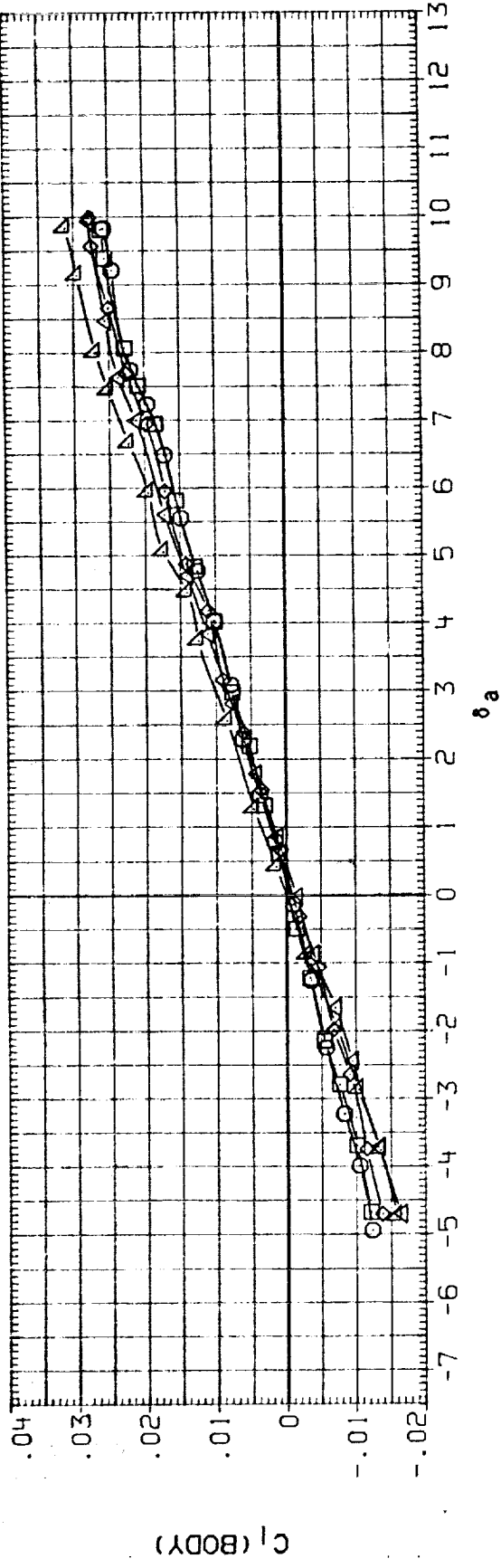
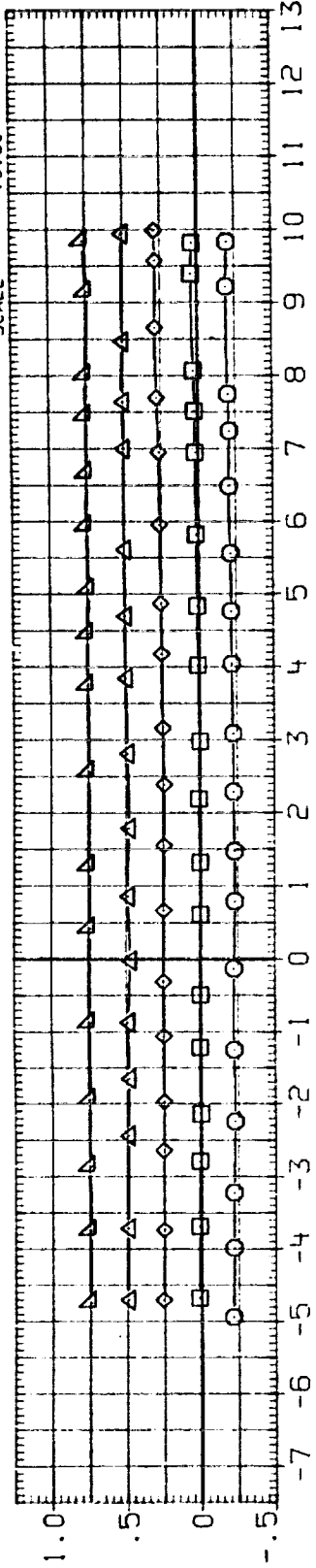


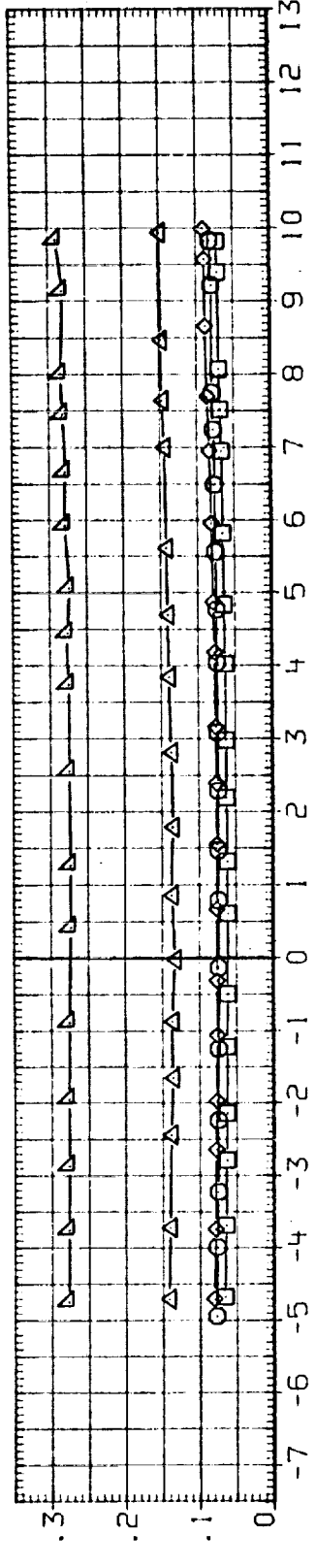
FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = .60

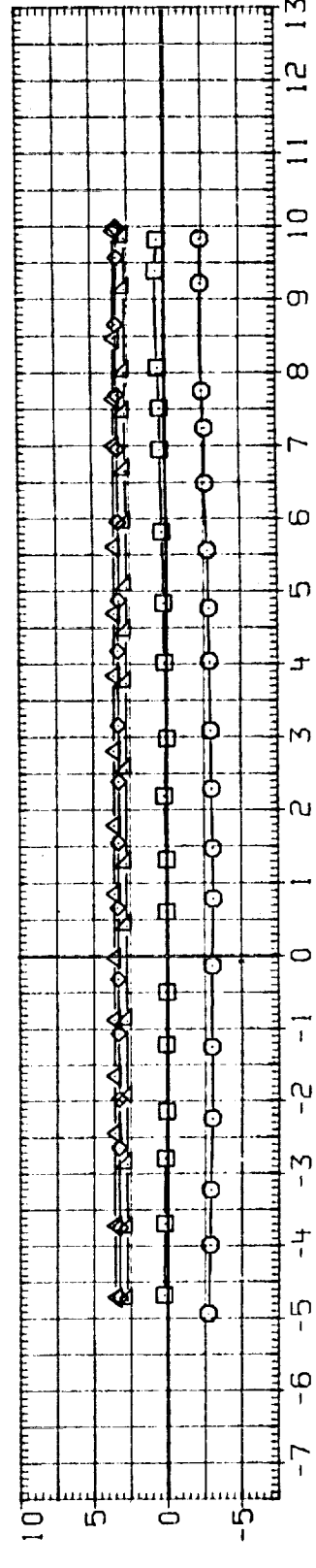
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|---------|-----------------------|
| (RUK097) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | .000 | .000 | -10.000 | SREF 2690.0000 SQ.FT. |
| (RUK099) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 5.000 | .000 | -10.000 | LREF 474.8000 INCHES |
| (RUK101) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 10.000 | .000 | -10.000 | BREF 936.6800 INCHES |
| (RUK103) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 15.000 | .000 | -10.000 | XMRP 1076.7000 IN. X0 |
| (RUK105) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 20.000 | .000 | -10.000 | YMRP 375.0000 IN. Y0 |



δa



δa



δa






FIG. 25 AILERON LINEARITY, ELEVON = -10

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

ELEVON
 BETA .000
 ALPHA .000
 RN/L 4.500

ALPHA .000
 BETA .000
 RN/L 4.500

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

DATA SET SYMBOL
 (CUK097) 
 (CUK099) 
 (CUK101) 
 (CUK103) 
 (CUK105) 

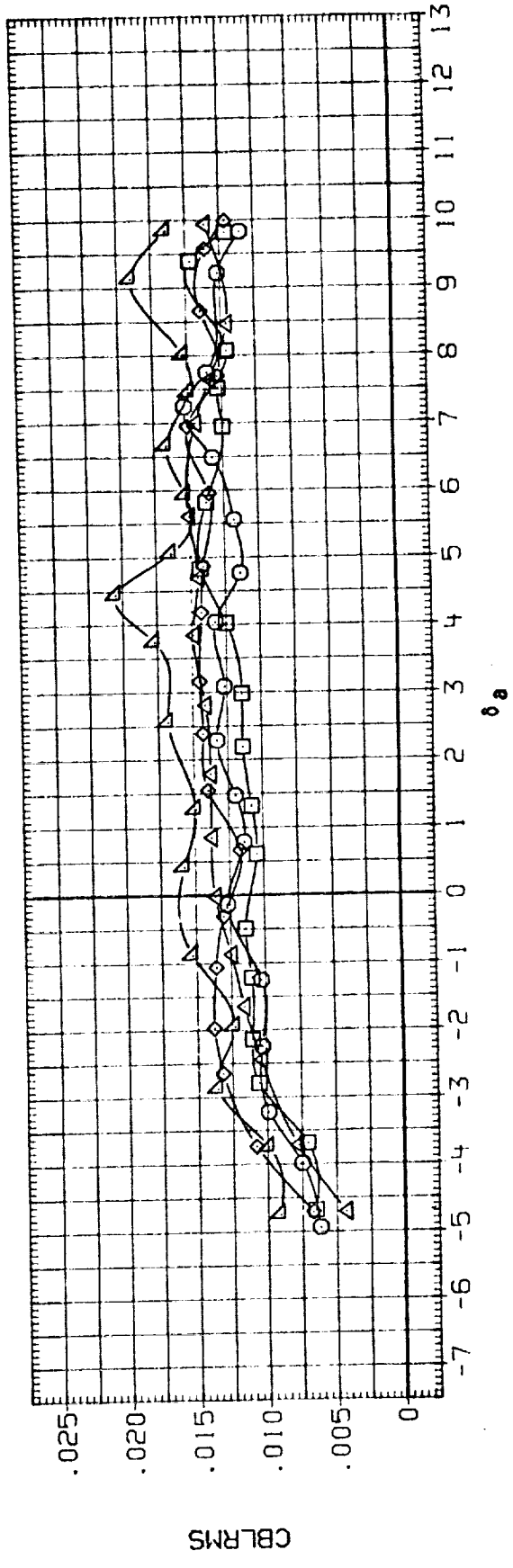
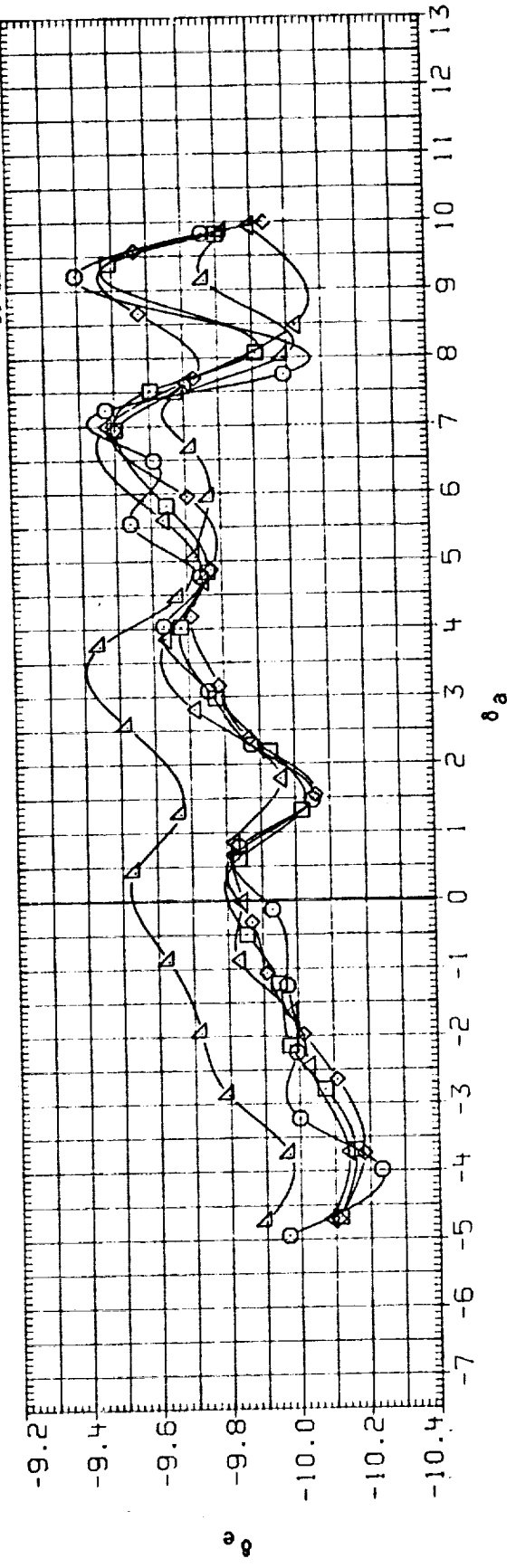


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A)MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|---------|-----------------------|
| (RUK097) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | .000 | .000 | -10.000 | SREF 2690.0000 SQ.FT. |
| (RUK099) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 5.000 | .000 | -10.000 | LREF 474.8000 INCHES |
| (RUK101) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 10.000 | .000 | -10.000 | BREF 936.6800 INCHES |
| (RUK103) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 15.000 | .000 | -10.000 | XMRP 1076.7000 IN. XO |
| (RUK105) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 20.000 | .000 | -10.000 | YMRP 375.0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

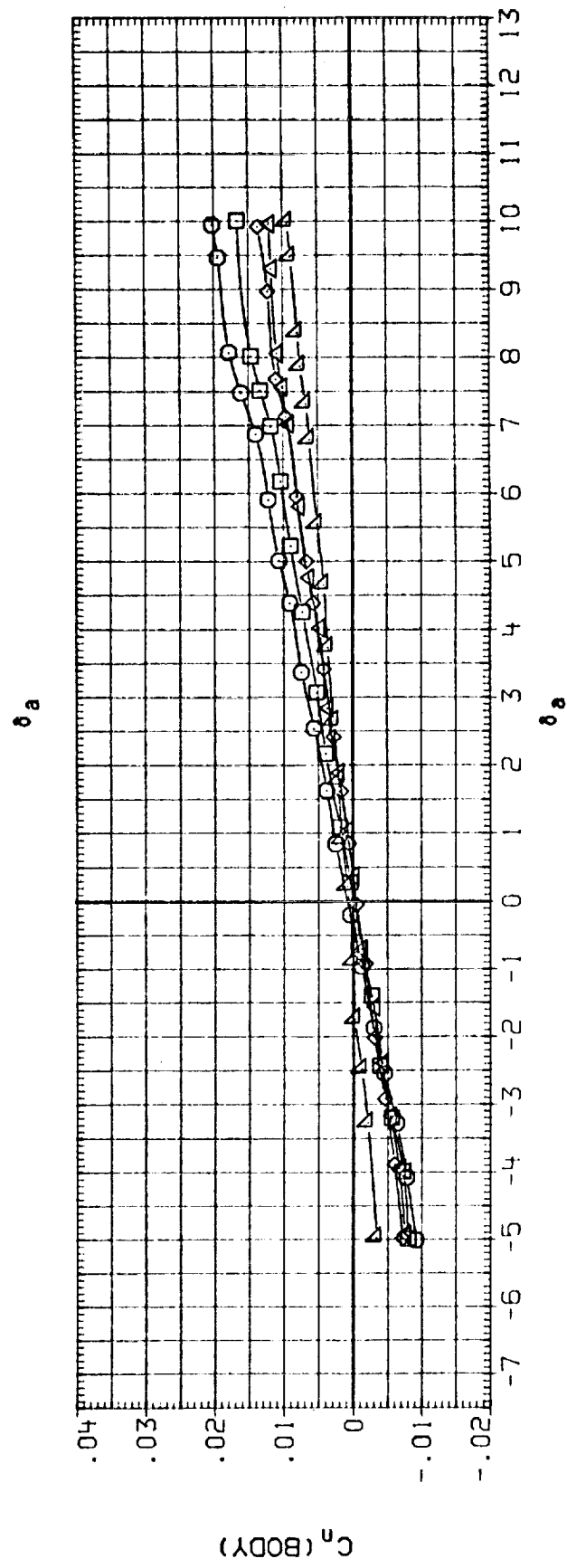
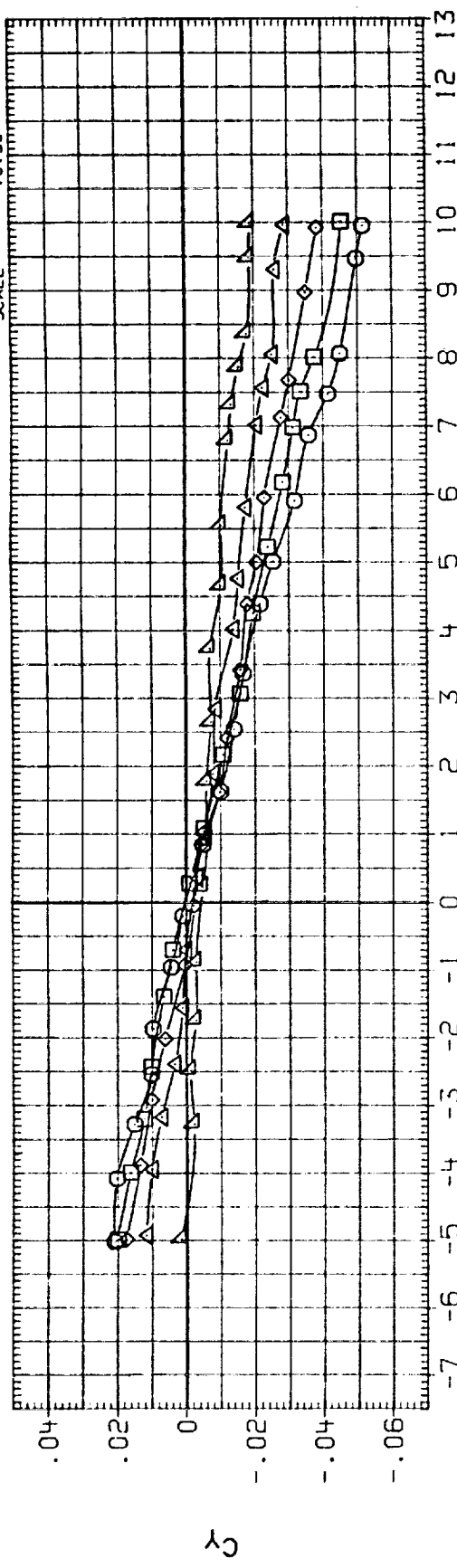


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|---------|------------------------|
| (RUK097) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | -10.000 | SREF 2690.0000 SO. FT. |
| (RUK099) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | -10.000 | LREF 474.8000 INCHES |
| (RUK101) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | -10.000 | BREF 936.6800 INCHES |
| (RUK103) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | -10.000 | XMRP 1076.7000 IN. X0 |
| (RUK105) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | -10.000 | ZMRP .0000 IN. Y0 |
| | | | | | | | SCALE 0.150 |

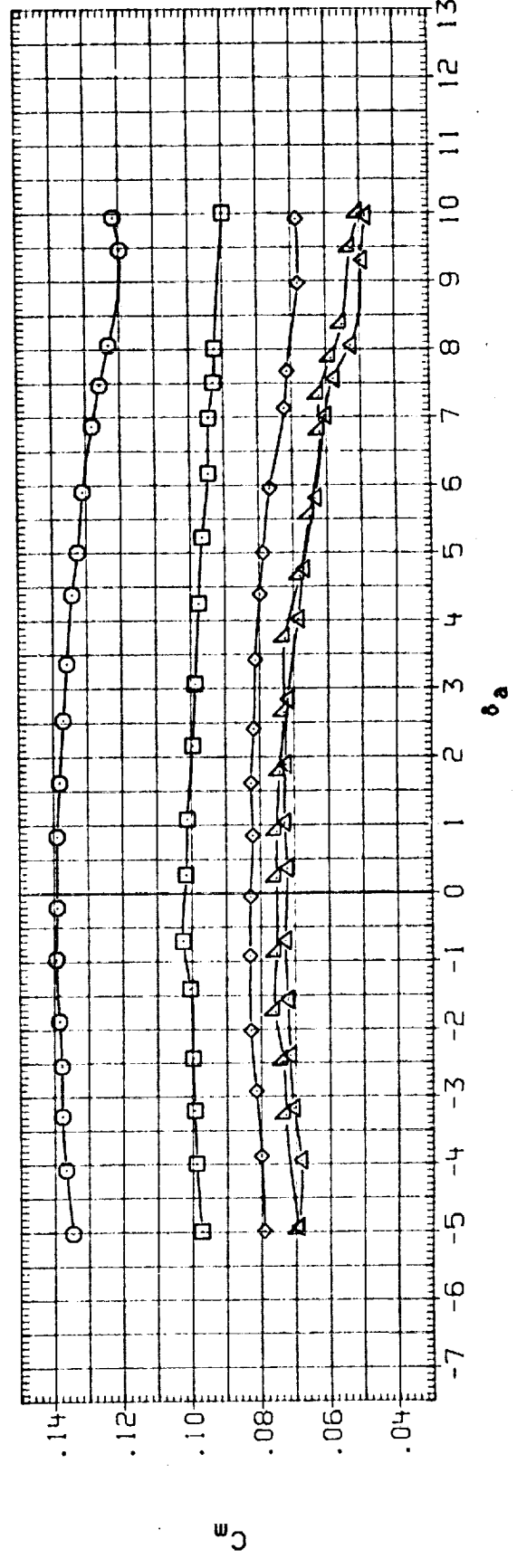
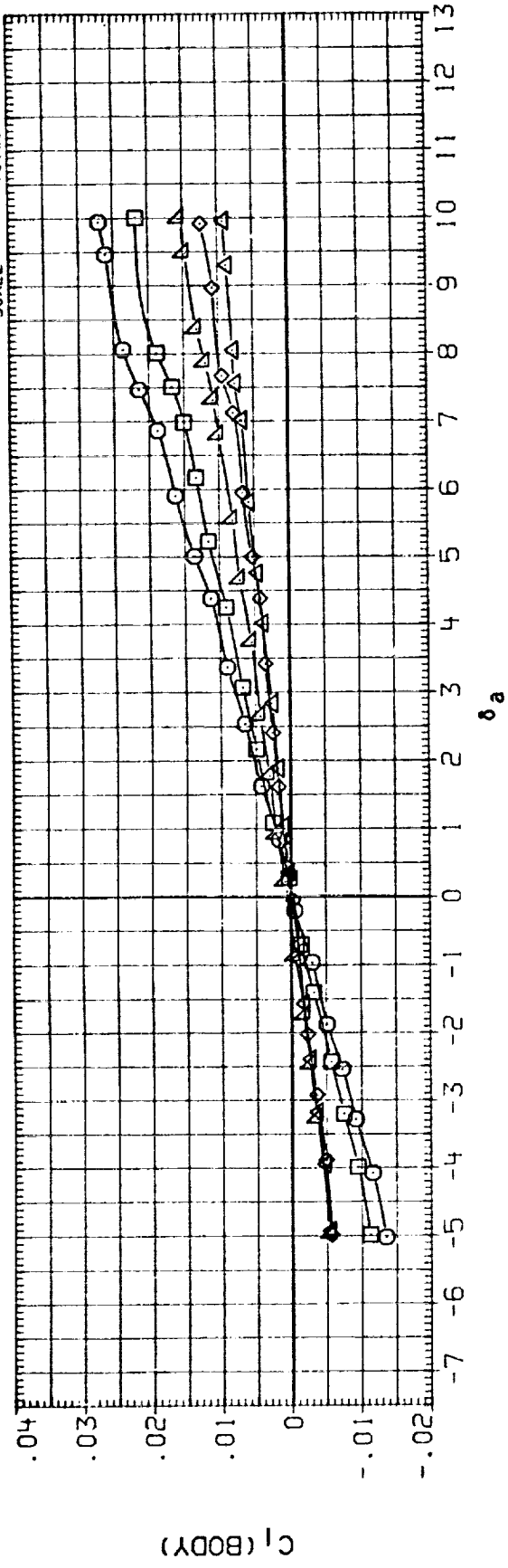


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|---------|-----------------------|
| (RUK097) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | -10.000 | SREF 2690.0000 SO.FT. |
| (RUK099) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | -10.000 | LREF 474.8000 INCHES |
| (RUK101) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | -10.000 | BREF 936.6800 IN. XO |
| (RUK103) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | -10.000 | XMRP 1076.7000 IN. YO |
| (RUK105) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | -10.000 | ZMRP 375.0000 IN. ZO |

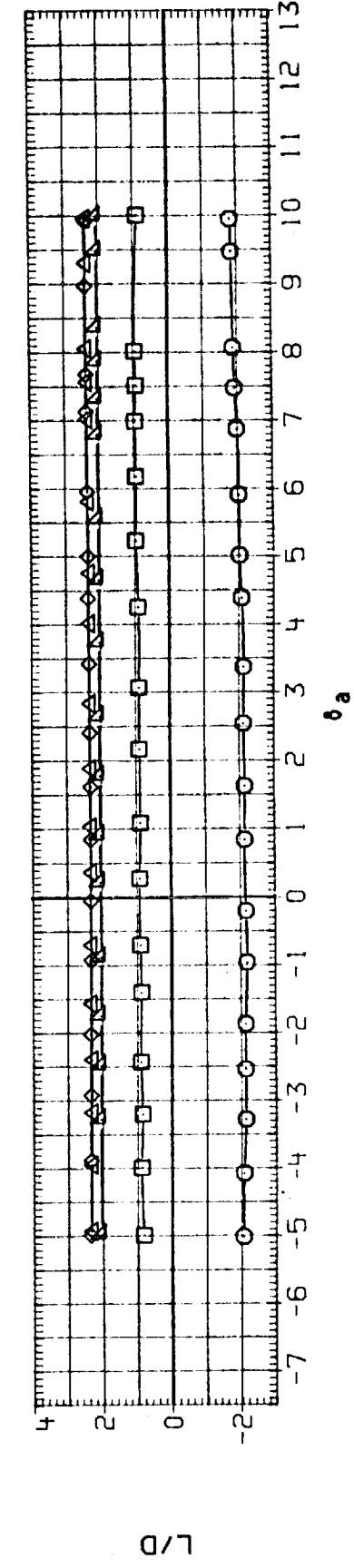
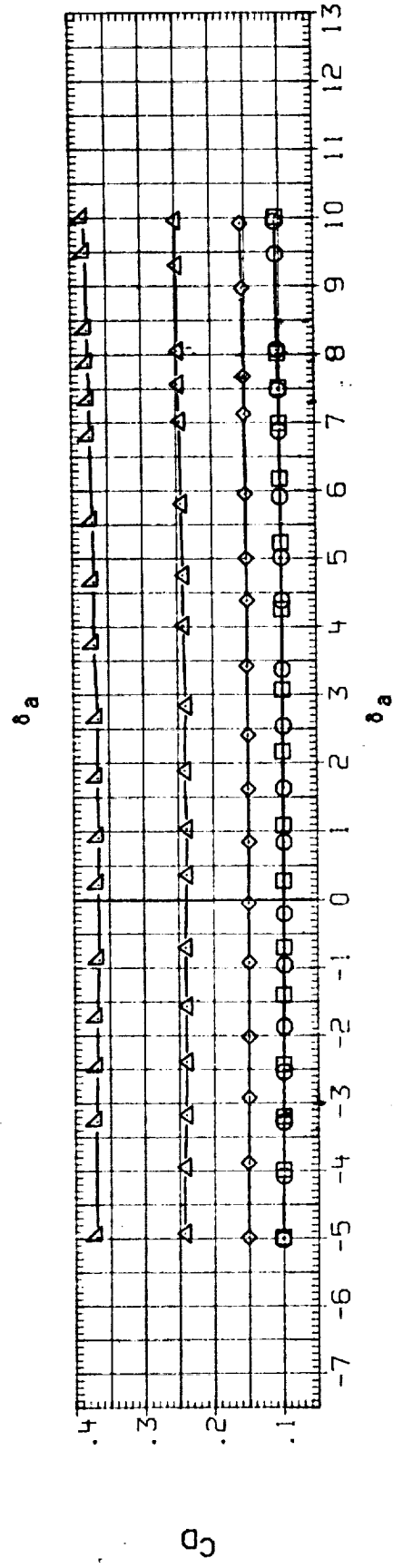
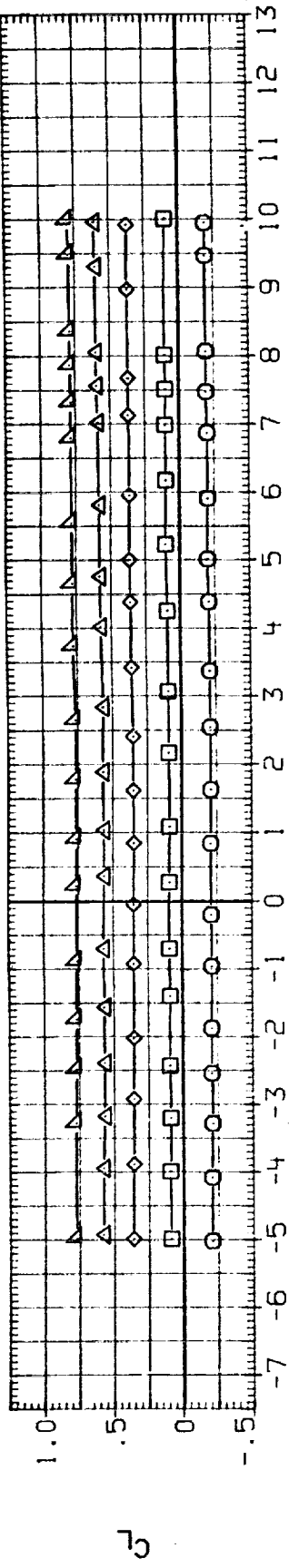


FIG. 25 AILERON LINEARITY, ELEVON = -10

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK097) ○ LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)

(CUK099) □ LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)

(CUK101) ◇ LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)

(CUK103) △ LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)

(CUK105) ▲ LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

FN/L ALPHA BETA ELEVON

4.500 .000 .000 -10.000

4.500 5.000 .000 -10.000

4.500 10.000 .000 -10.000

4.500 15.000 .000 -10.000

4.500 20.000 .000 -10.000

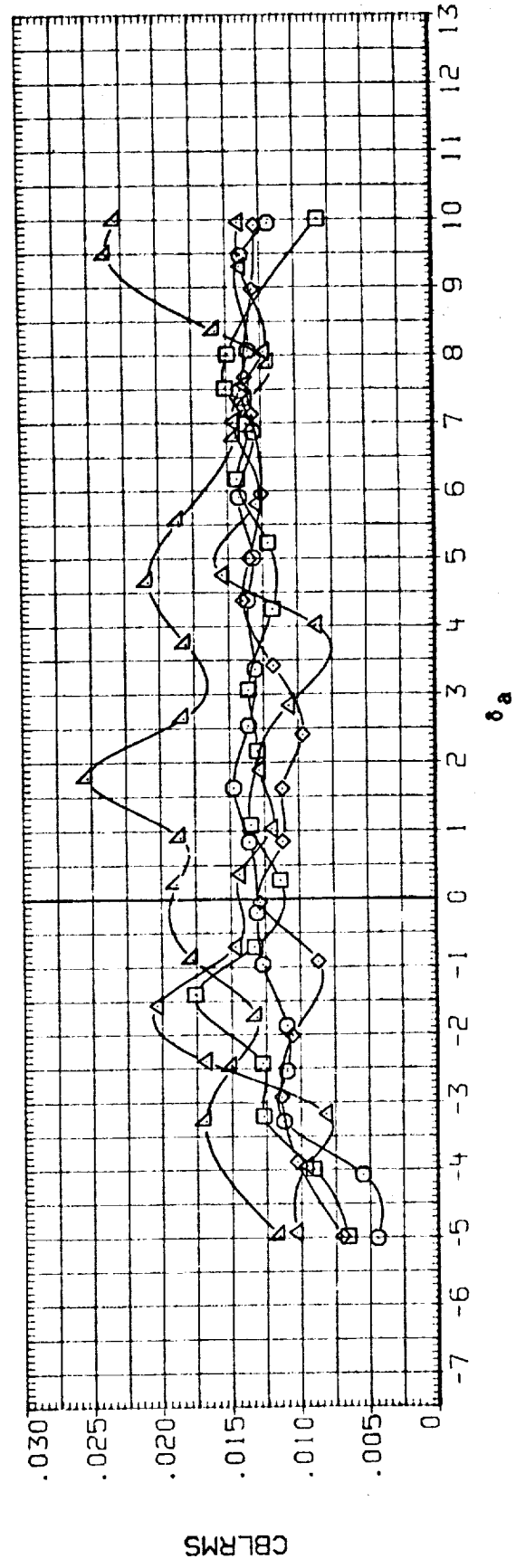
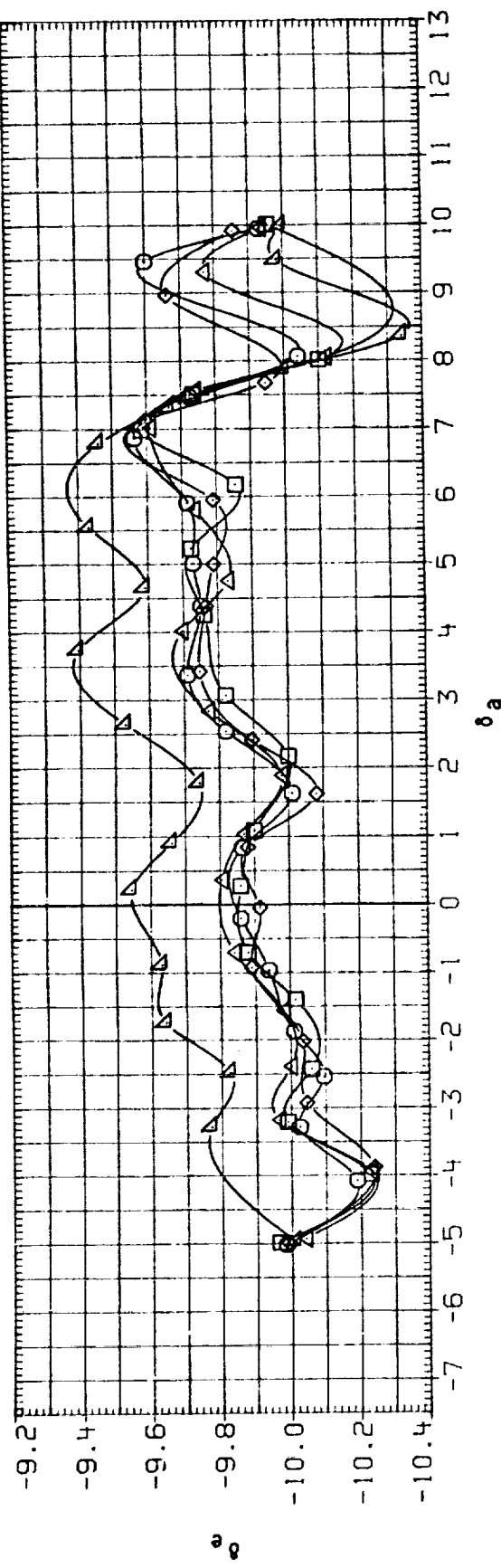


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|---------|-----------------------|
| (RUK098) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | .000 | .000 | -10.000 | SREF 2690.0000 SQ.FT. |
| (RUK100) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 5.000 | .000 | -10.000 | LREF 474.8000 INCHES |
| (RUK102) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 10.000 | .000 | -10.000 | BREF 936.6800 INCHES |
| (RUK104) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 15.000 | .000 | -10.000 | XMRP 1076.7000 IN. XO |
| (RUK106) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 20.000 | .000 | -10.000 | YMRP 375.0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

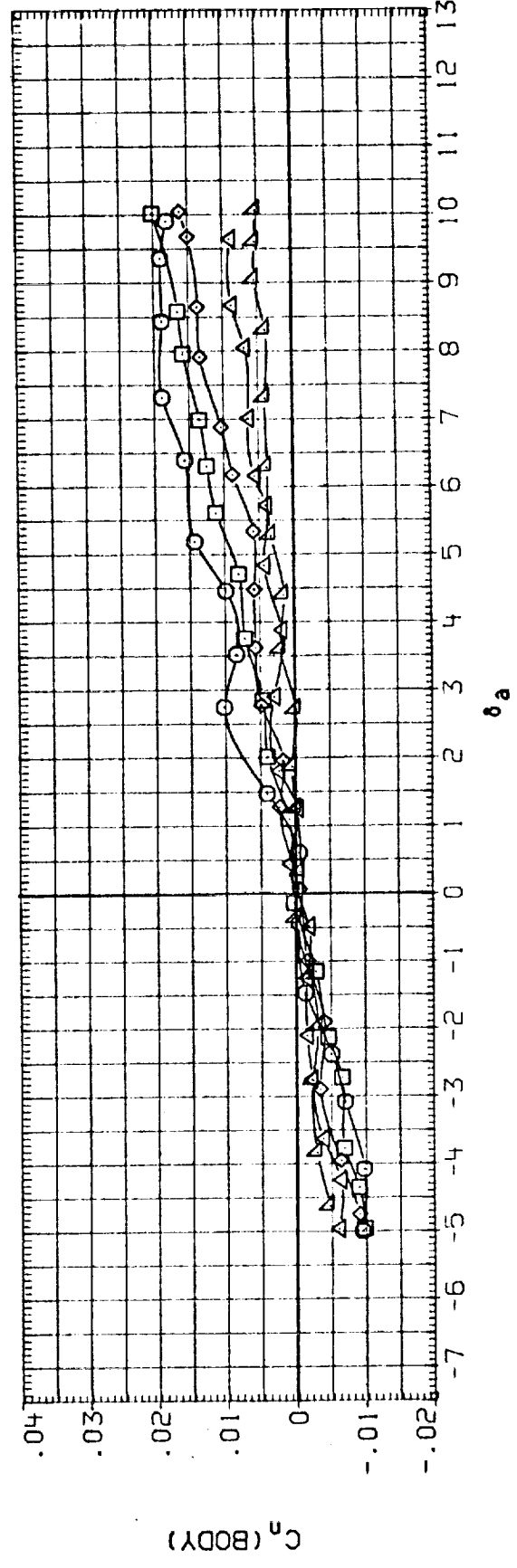
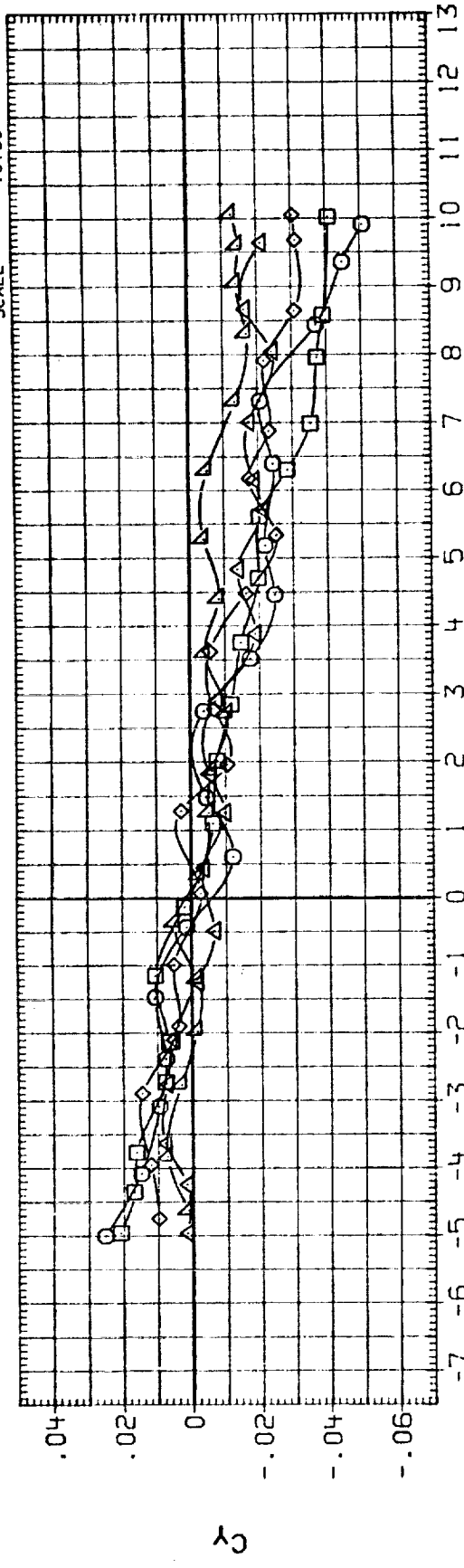


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

| | | | |
|----------|------|----------------|------------------------|
| (RUK098) | LA70 | BASELINE NO. 3 | (GAPS SEALED, GRIT ON) |
| (RUK100) | LA70 | BASELINE NO. 3 | (GAPS SEALED, GRIT ON) |
| (RUK102) | LA70 | BASELINE NO. 3 | (GAPS SEALED, GRIT ON) |
| (RUK104) | LA70 | BASELINE NO. 3 | (GAPS SEALED, GRIT ON) |
| (RUK106) | LA70 | BASELINE NO. 3 | (GAPS SEALED, GRIT ON) |

RV/L ALPHA BETA ELEVCA

| | | | |
|-------|--------|------|---------|
| 4.000 | .000 | .000 | -10.000 |
| 4.000 | 5.000 | .000 | -10.000 |
| 4.000 | 10.000 | .000 | -10.000 |
| 4.000 | 15.000 | .000 | -10.000 |
| 4.000 | 20.000 | .000 | -10.000 |

REFERENCE INFORMATION

| | | |
|------|-----------|--------|
| SREF | 2690.0000 | 50.FT. |
| LREF | 474.8000 | INCHES |
| BREF | 936.6800 | INCHES |
| XMRP | 1076.7000 | IN. YO |
| YMRP | .0000 | IN. YO |
| ZMRP | 375.0000 | IN. ZO |

SCALE .0150

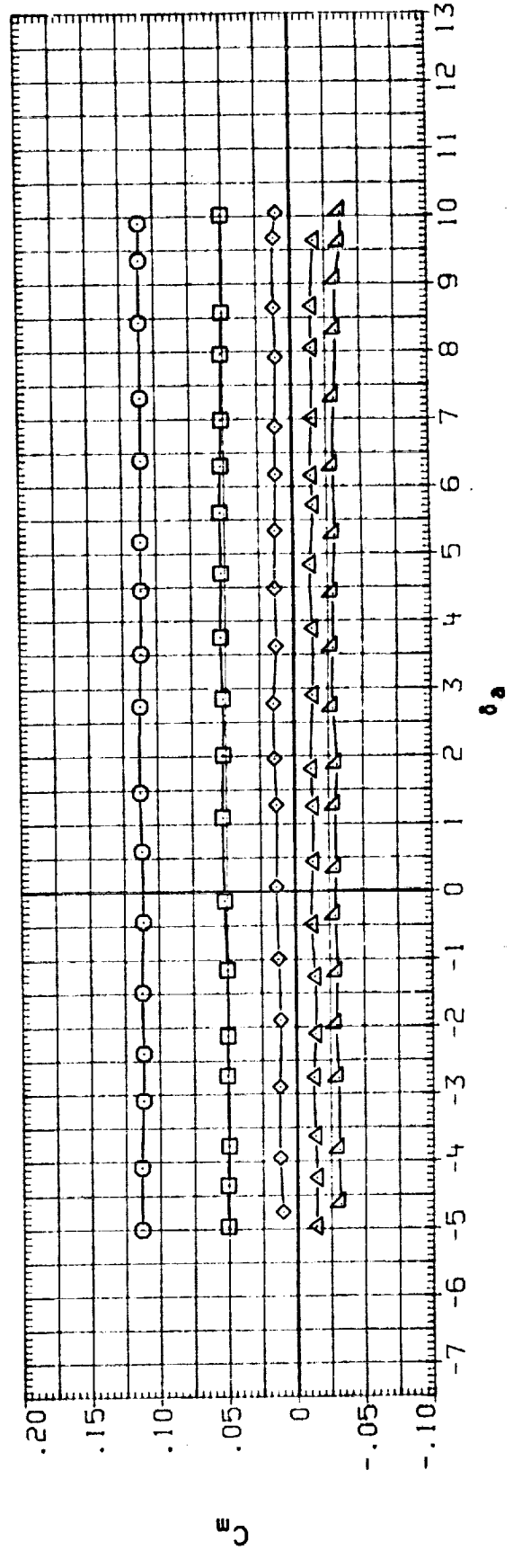
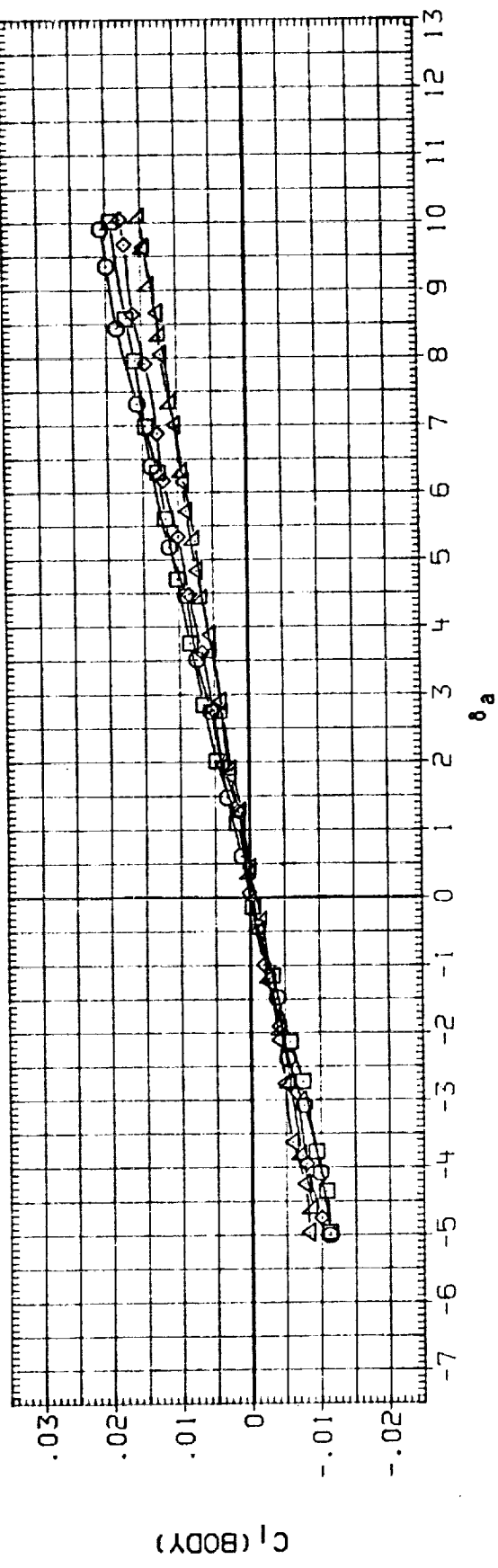


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = 1.20

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/VL | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|---------|--------|-----------------------|
| (RUK098) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.000 | .000 | -10.000 | SREF | 2690.0000 SO. FT. |
| (RUK100) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.000 | 5.000 | -10.000 | LREF | 474.8000 INCHES |
| (RUK102) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.000 | 10.000 | -10.000 | BREF | 936.6800 INCHES |
| (RUK104) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.000 | 15.000 | -10.000 | XMRP | 1076.7000 IN. XO |
| (RUK106) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.000 | 20.000 | -10.000 | ZMRP | .0000 IN. YO |
| | | | | | | SCALE | 375.0000 IN. ZO |
| | | | | | | | 0.150 |

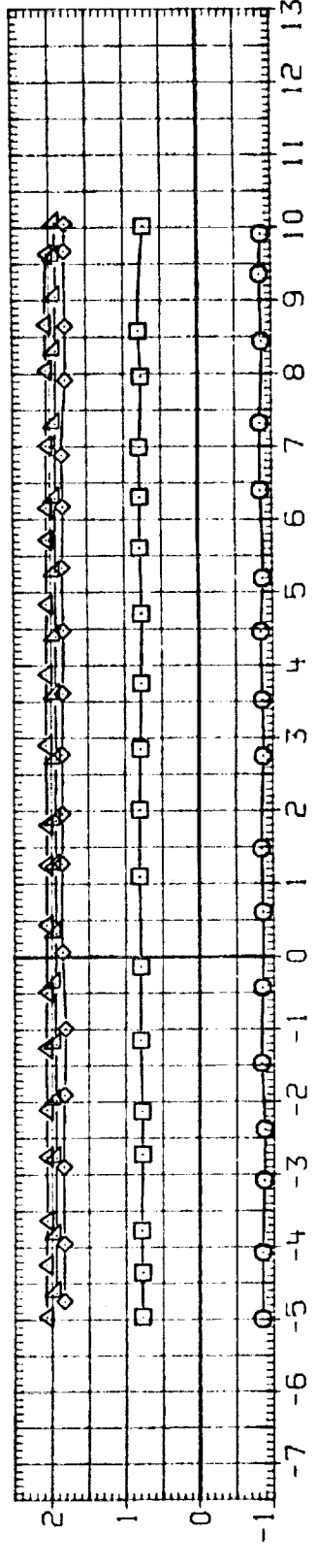
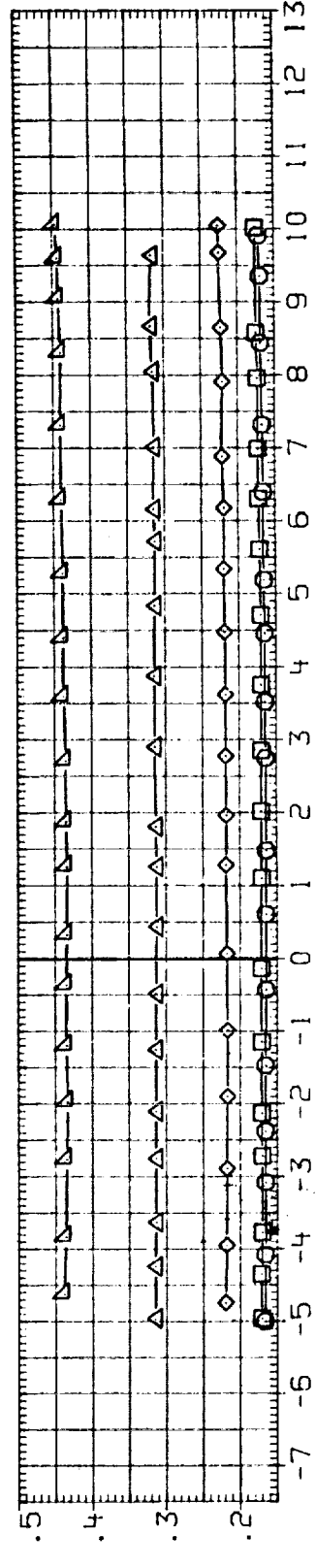
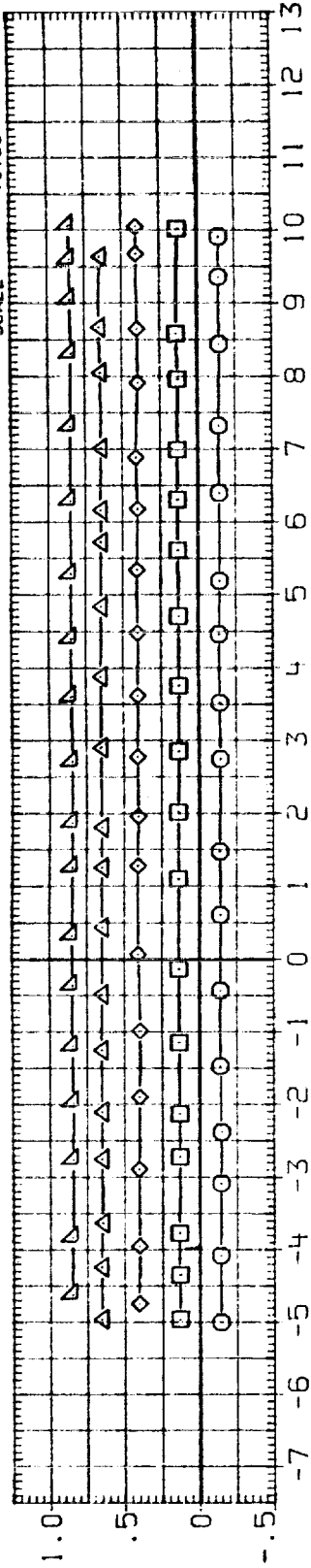


FIG. 25 AILERON LINEARITY, ELEVON = -10

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|---------|-----------------------|
| (CUK098) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | .000 | .000 | -10.000 | SREF 2690.0000 SQ.FT. |
| (CUK100) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 5.000 | .000 | -10.000 | LREF 474.8000 INCHES |
| (CUK102) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 10.000 | .000 | -10.000 | BREF 936.6800 INCHES |
| (CUK104) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 15.000 | .000 | -10.000 | XMRP 1076.7000 IN. XO |
| (CUK106) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 20.000 | .000 | -10.000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |

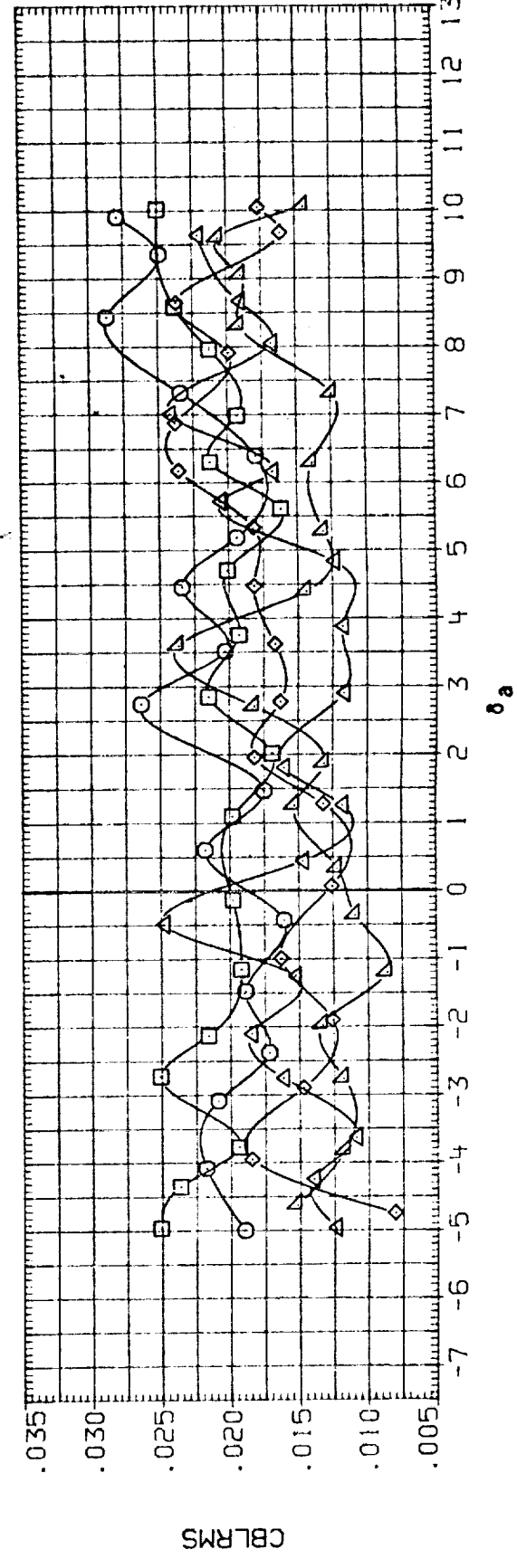
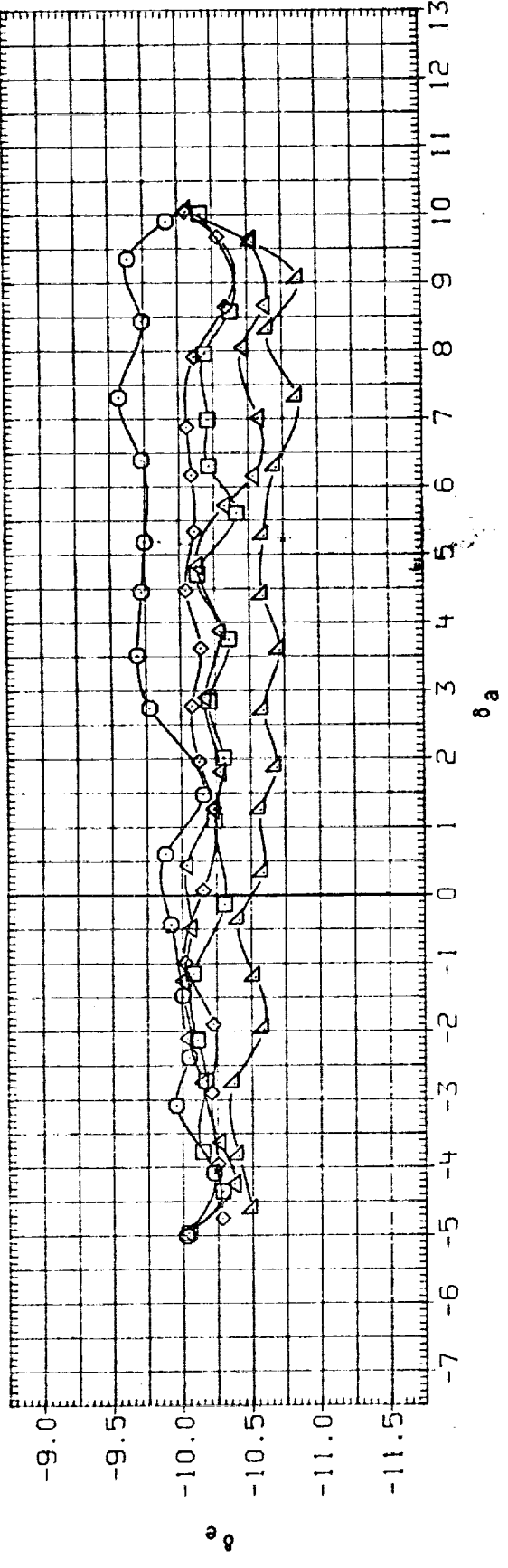


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = 1.20

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK124) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | 5.000 | SREF 2690.0000 SO.FT. |
| (RUK125) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | 5.000 | LREF 474.8000 INCHES |
| (RUK126) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | 5.000 | BREF 936.6800 INCHES |
| (RUK127) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | 5.000 | XMRP 1076.7000 IN. XO |
| (RUK128) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | 5.000 | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

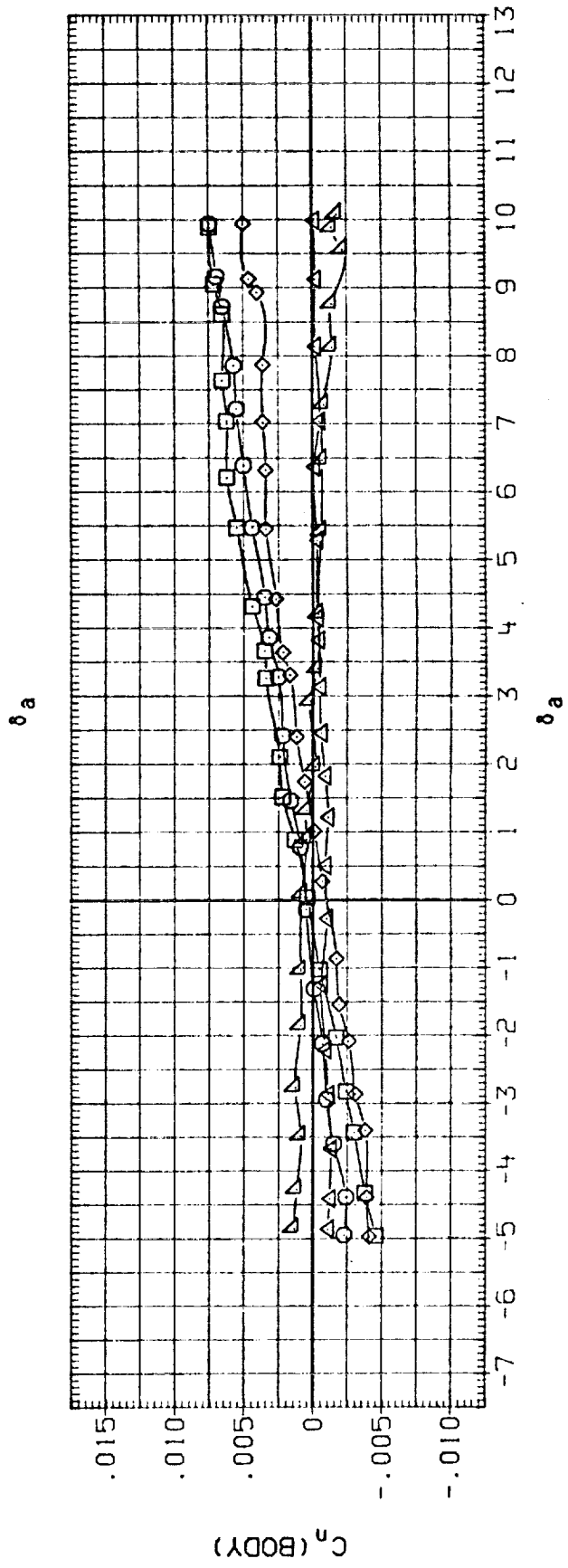
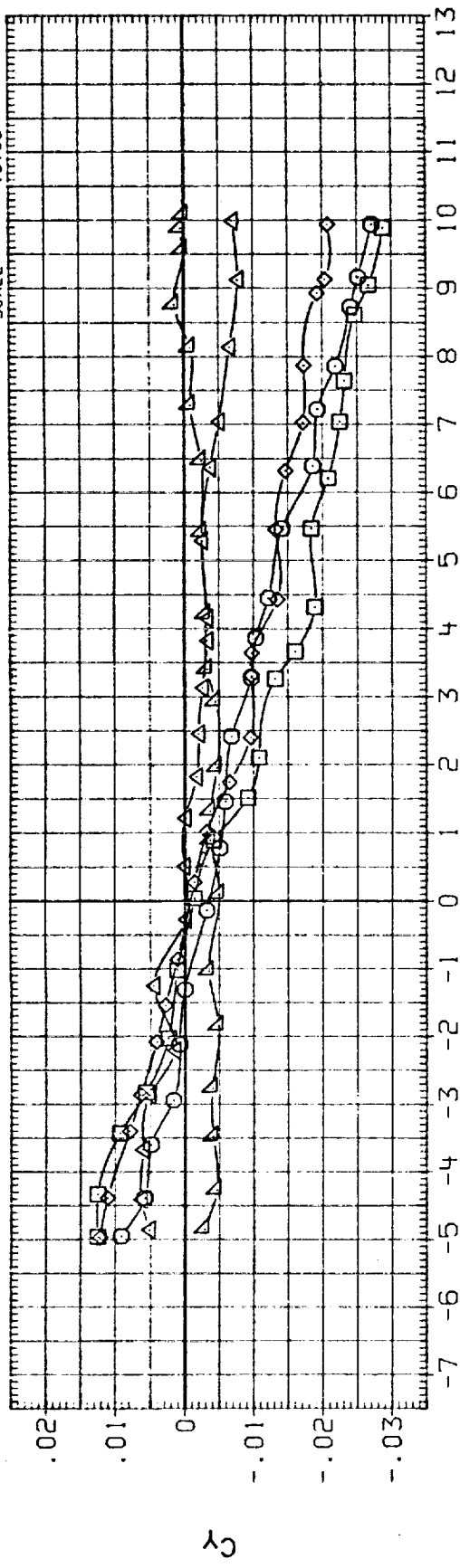


FIG. 26 AILERON LINEARITY, ELEVON = 5

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK124) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | 5.000 | SREF 2690.0000 SQ.FT. |
| (RUK125) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | 5.000 | LREF 474.8000 INCHES |
| (RUK126) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | 5.000 | BREF 936.6800 INCHES |
| (RUK127) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | 5.000 | XMRP 1076.7000 IN. XO |
| (RUK128) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | 5.000 | ZMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

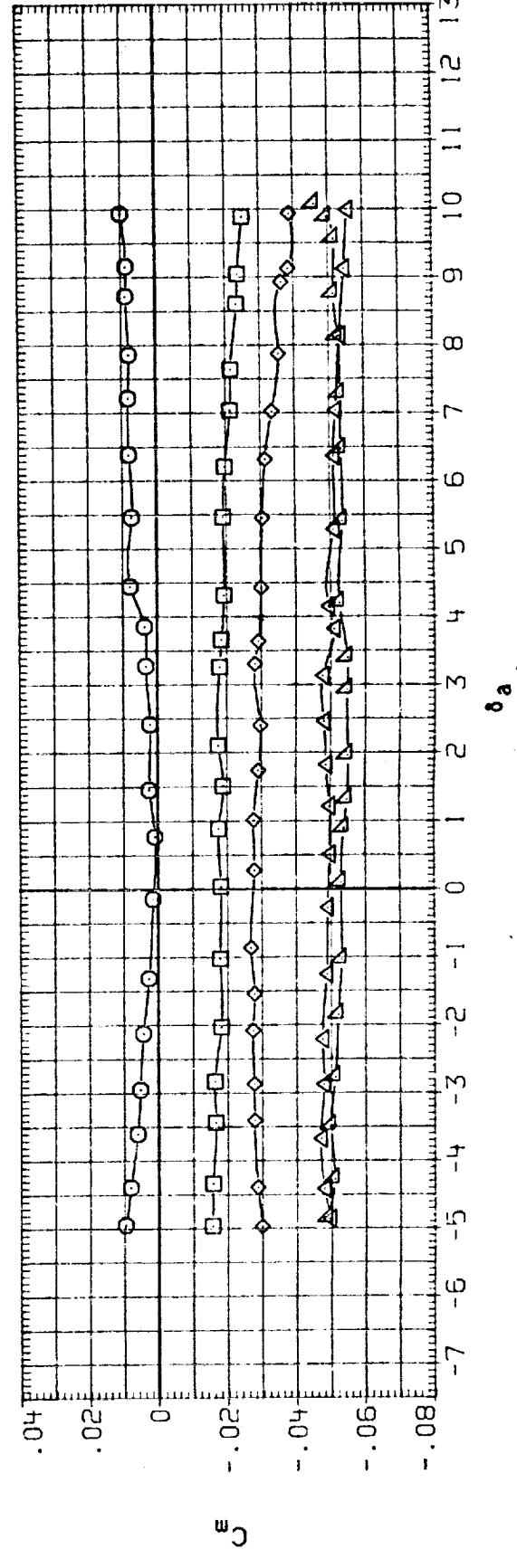
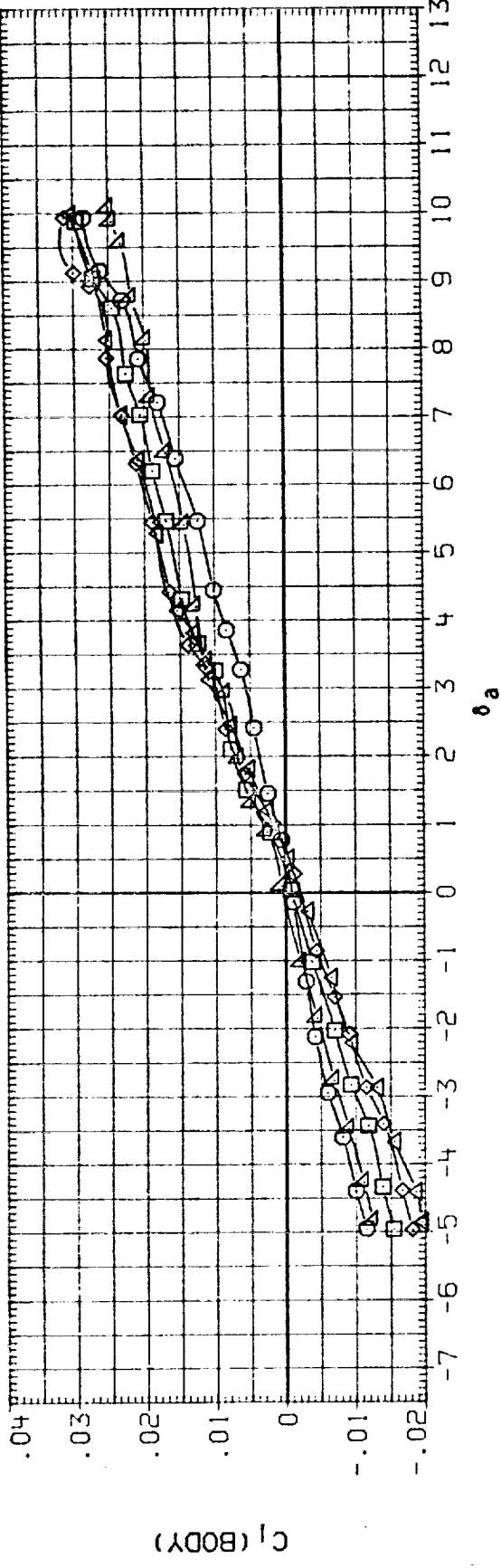


FIG. 26 AILERON LINEARITY, ELEVON = 5

(A) MACH = .90

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|--------|-----------------------|
| (RUK124) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | 5.000 | SREF 2690.0000 SQ.FT. |
| (RUK125) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | 5.000 | LREF 474.8000 INCHES |
| (RUK126) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | 5.000 | BREF 936.6800 INCHES |
| (RUK127) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | 5.000 | YMPP 1076.7000 IN. XO |
| (RUK128) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | 5.000 | YMRP 375.0000 IN. YO |
| | | | | | | ZMRP .0150 IN. ZO |

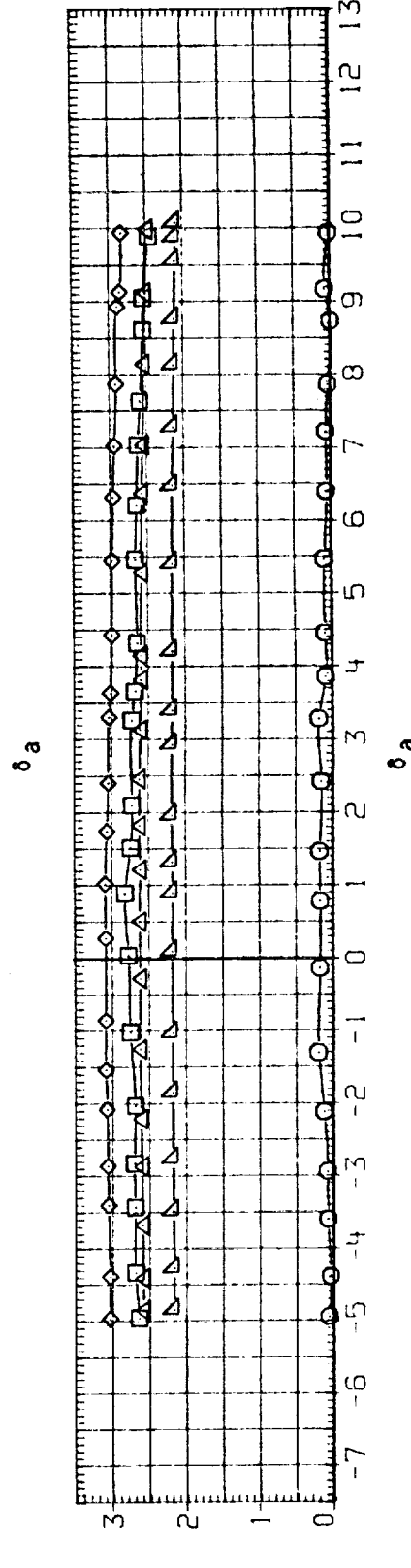
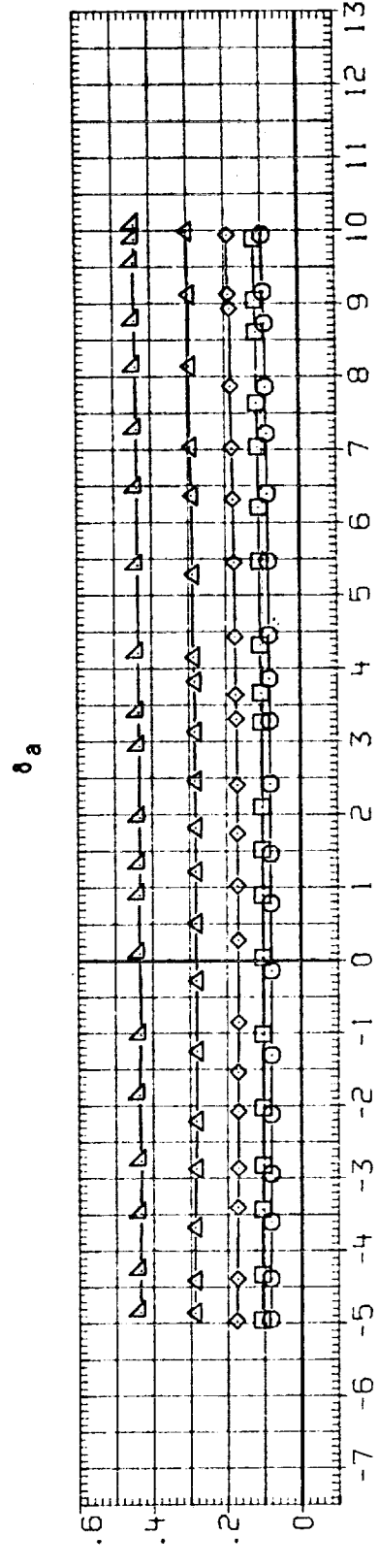
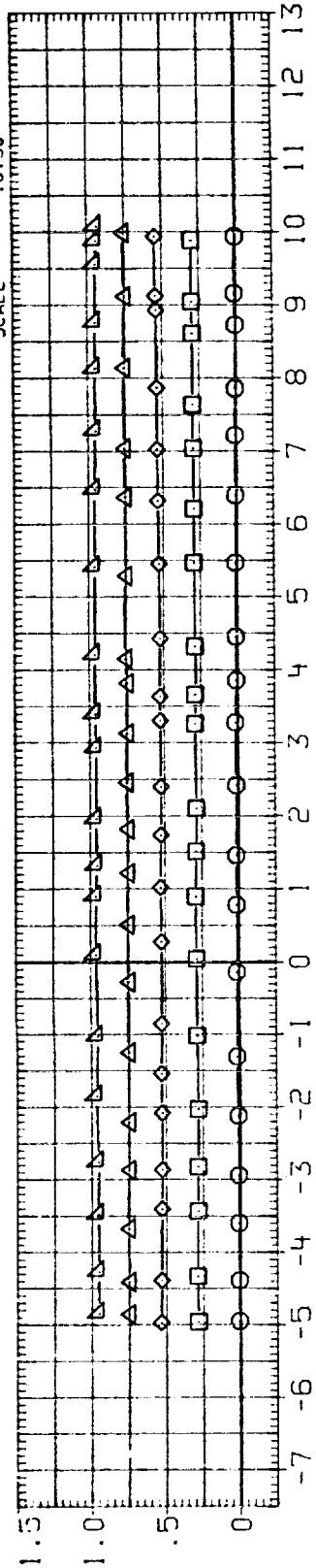


FIG. 26 AILERON LINEARITY, ELEVON = 5

DATA SET SYMBOL
 (CUK124)
 (CUK125)
 (CUK126)
 (CUK127)
 (CUK128)

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L
 4.500
 4.500
 4.500
 4.500

ALPHA
 .000
 5.000
 10.000
 15.000
 20.000

BETA
 .000
 .000
 .000
 .000
 .000

ELEVON
 5.000
 5.000
 5.000
 5.000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

SCALE
 .0150

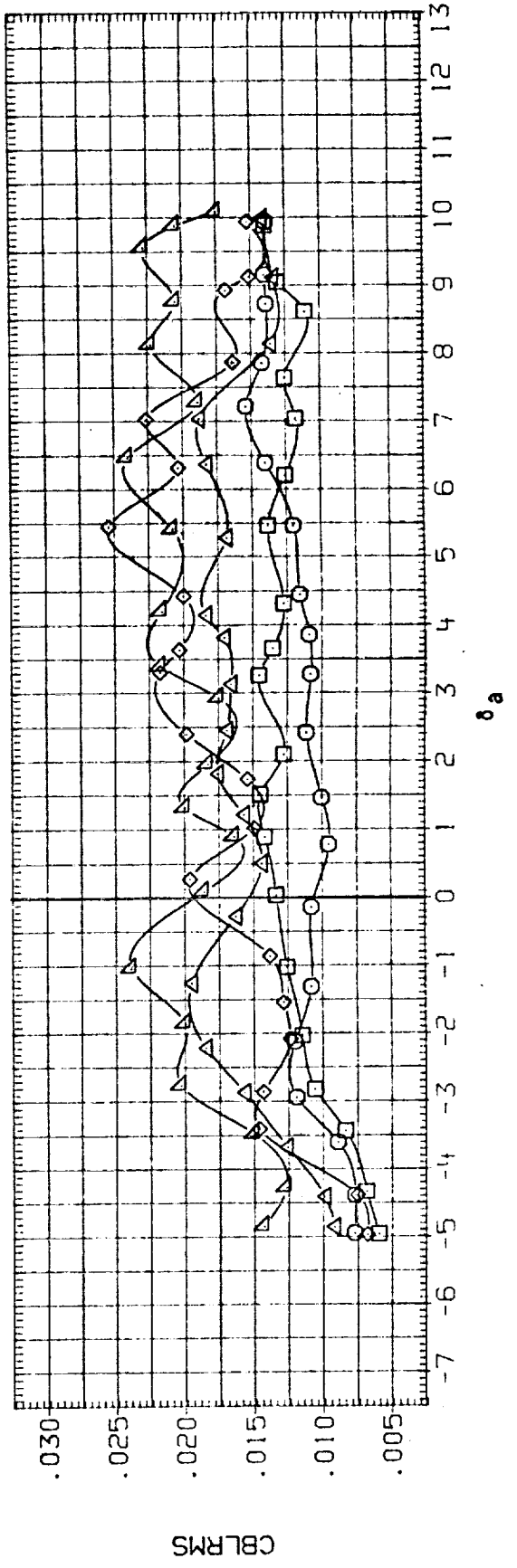
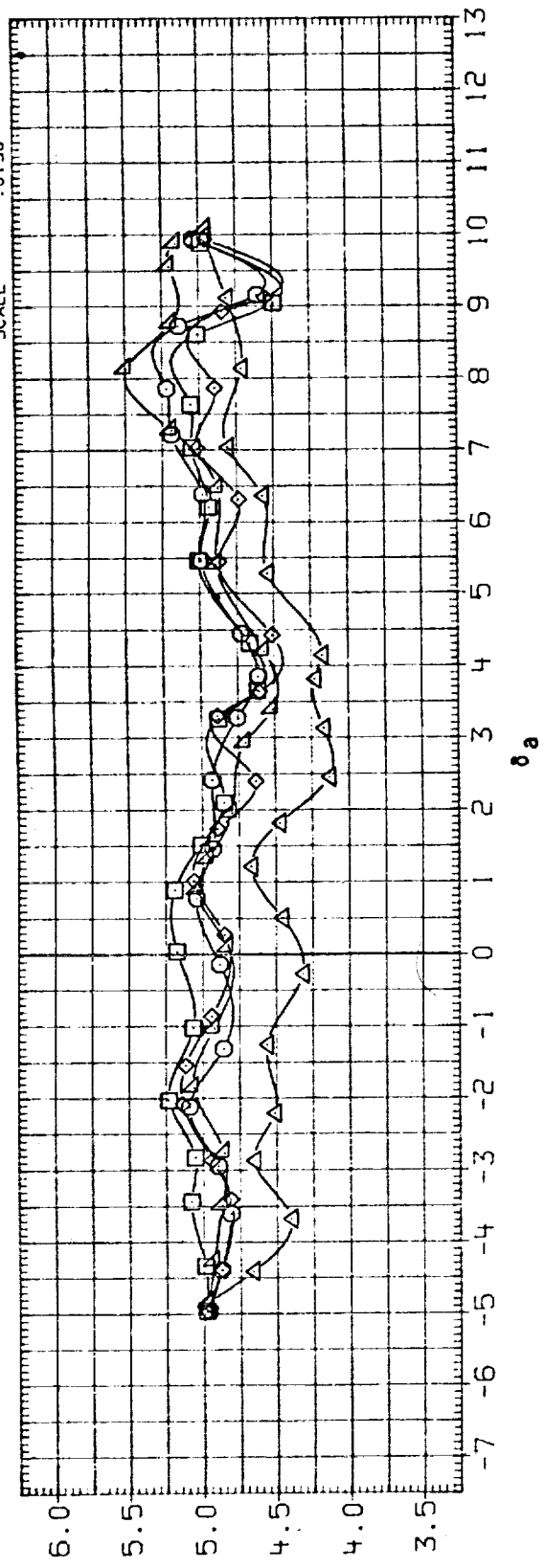


FIG. 26 AILERON LINEARITY, ELEVON = 5

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | FN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------|--------|--|-------|--------|------|--------|------------------------|
| (RUK1291) | ○ | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | 10.000 | SREF 2690.0000 SO. FT. |
| (RUK1311) | □ | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | 10.000 | LREF 474.8000 INCHES |
| (RUK1331) | ◇ | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | 10.000 | BREF 936.6800 INCHES |
| (RUK1351) | △ | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | 10.000 | XMRP 1076.7000 IN. XO |
| (RUK1371) | ▽ | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | 10.000 | ZMRP 375.0000 IN. ZO |

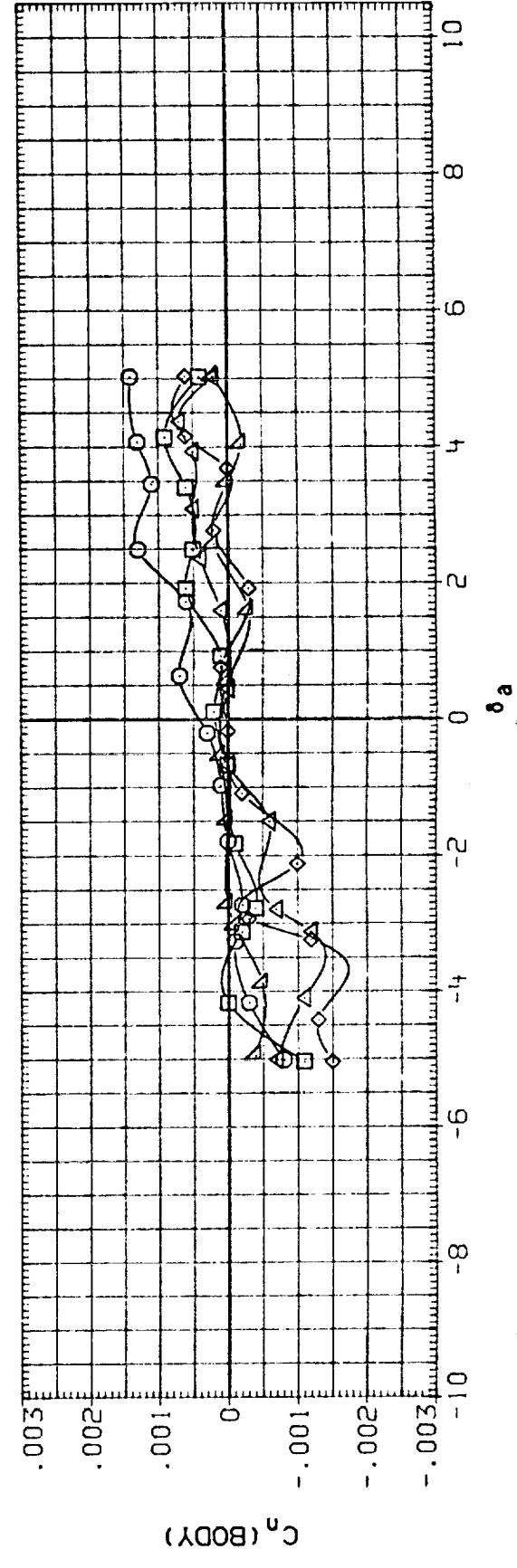
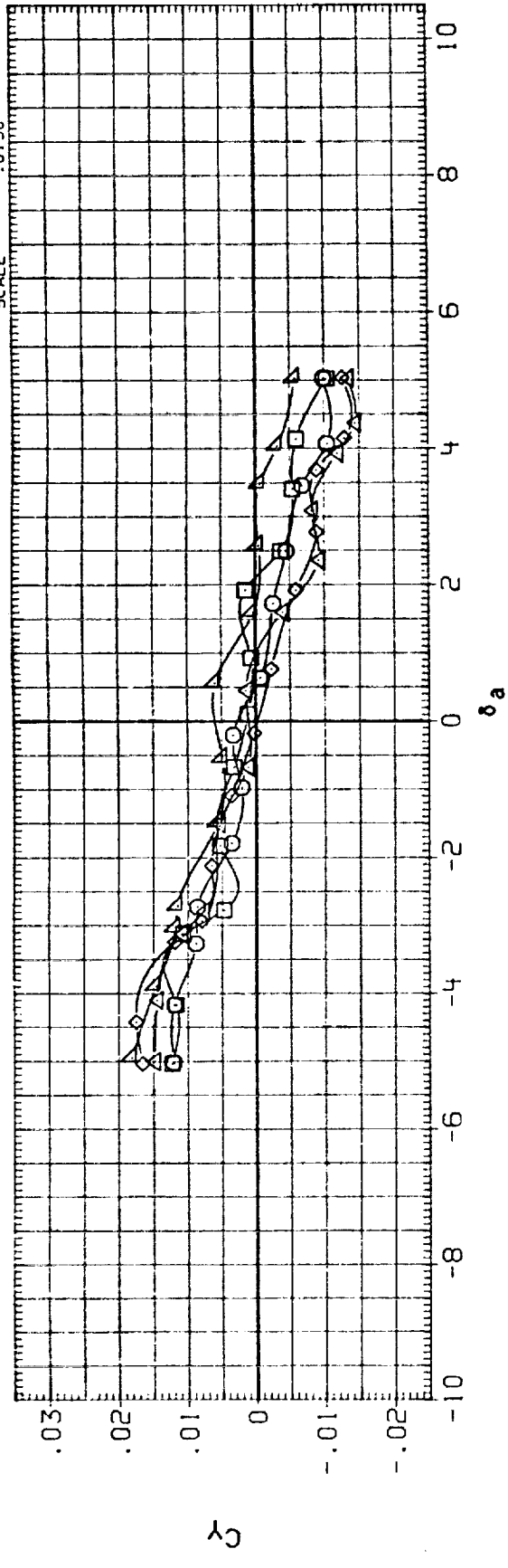


FIG. 27 AILERON LINEARITY, ELEVON = 10

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK129) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | 10.000 | SREF 2690.0000 SQ.FT. |
| (RUK131) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | 10.000 | LREF 474.8000 INCHES |
| (RUK133) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | 10.000 | BREF 936.6800 INCHES |
| (RUK135) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | 10.000 | XMRP 1076.7000 IN. XO |
| (RUK137) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | 10.000 | ZMRP .0000 IN. YO |
| | | | | | | | SCALE .0150 |

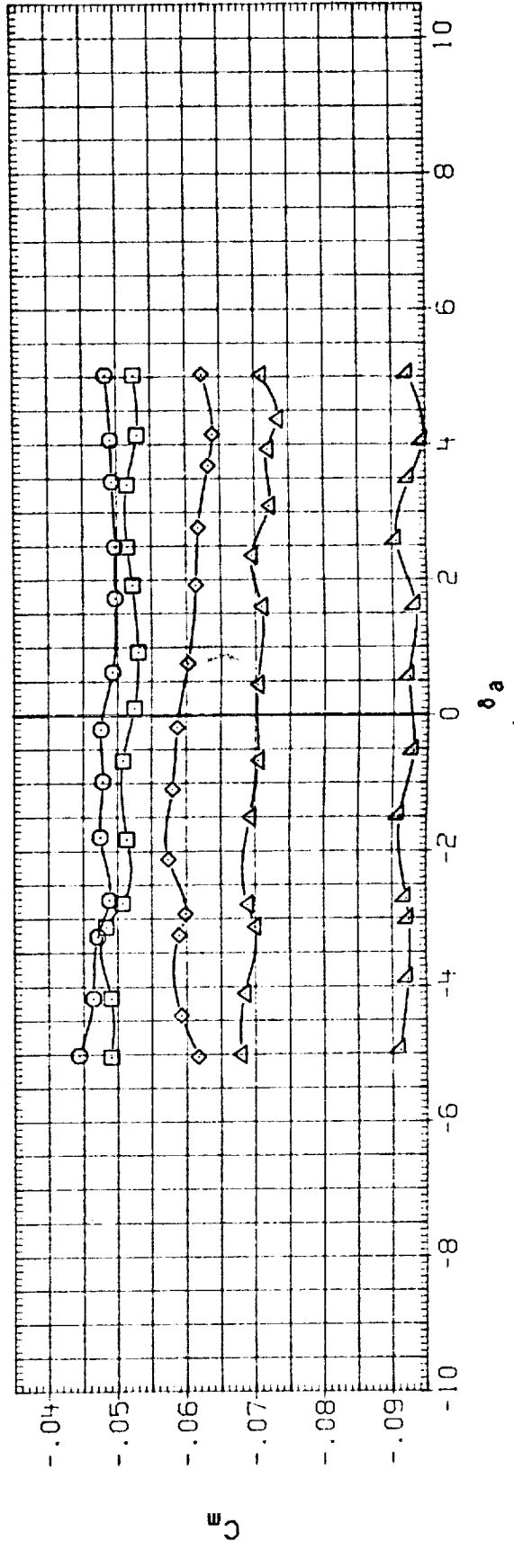
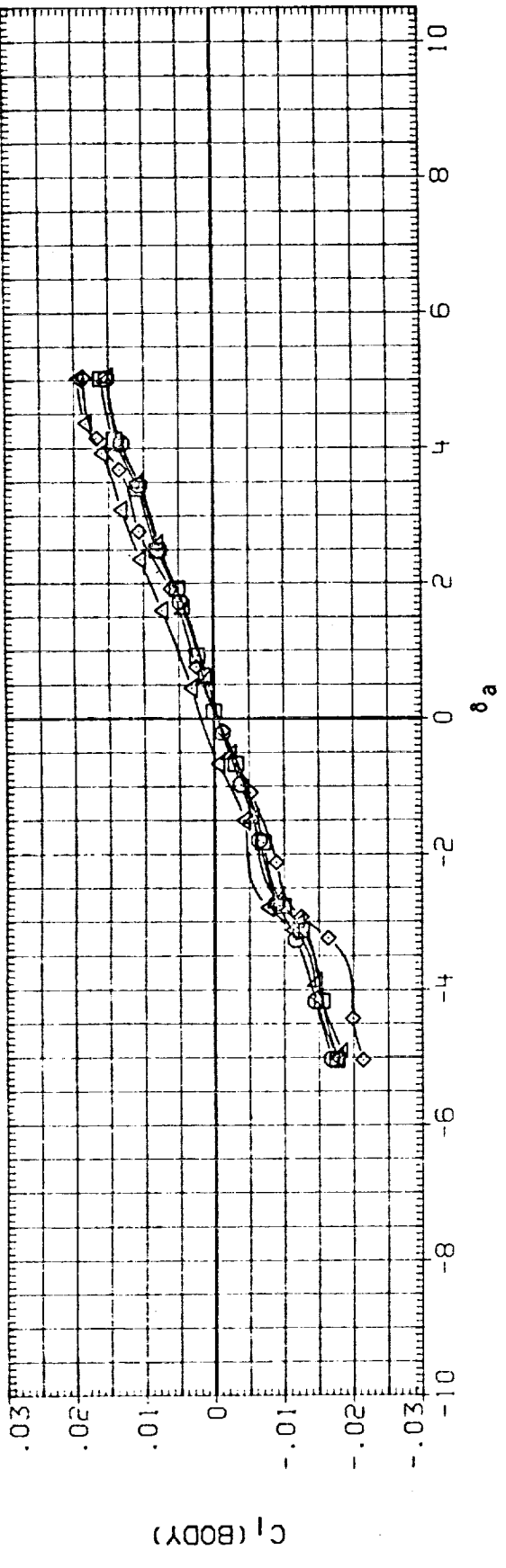


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|--------|------------------------|
| (RUK129) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | .000 | .000 | 10.000 | SREF 2690.0000 SO.FT. |
| (RUK131) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 5.000 | .000 | 10.000 | LREF 474.8000 INCHES |
| (RUK133) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 10.000 | .000 | 10.000 | BREF 936.6800 INCHES |
| (RUK135) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 15.000 | .000 | 10.000 | XMRRP 1076.7000 IN. XO |
| (RUK137) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 20.000 | .000 | 10.000 | YMRRP .0000 IN. YO |
| | | | | | | ZMRRP 375.0000 IN. ZO |

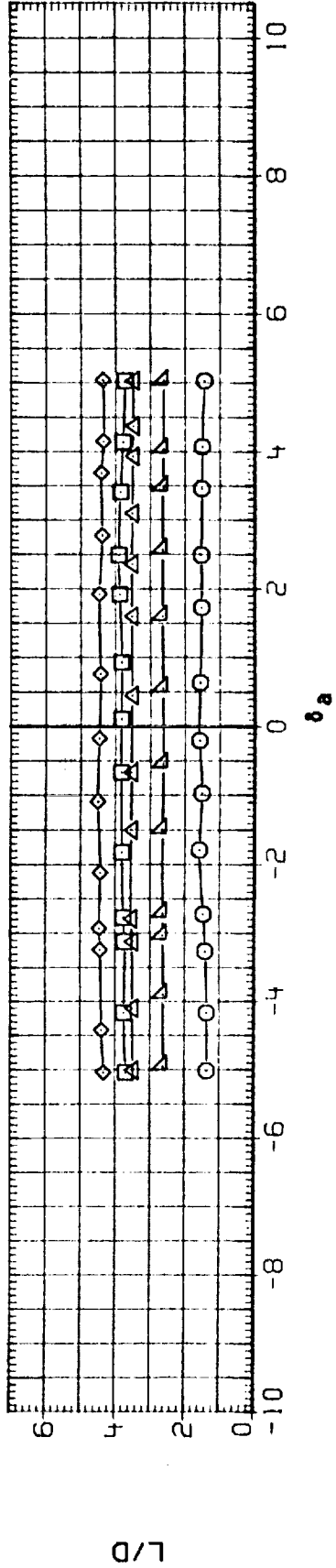
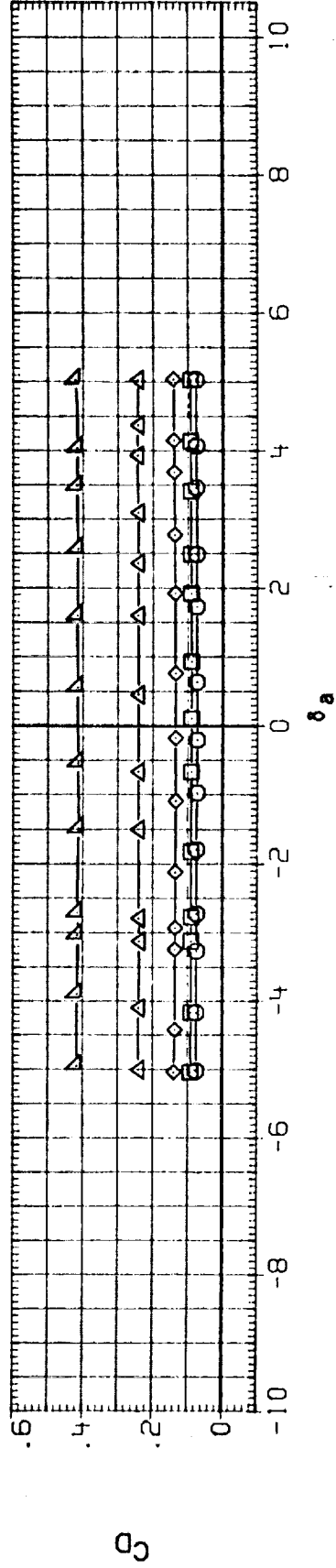
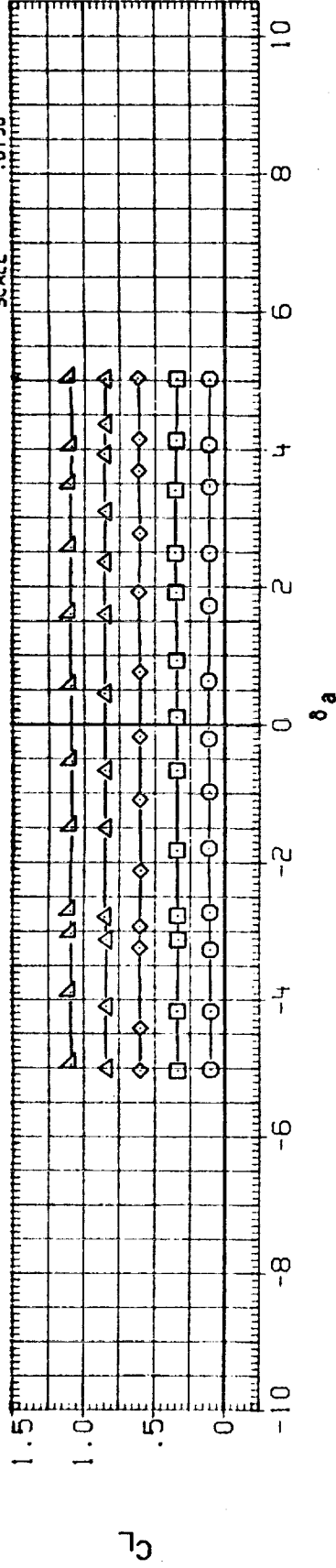


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .60

| | | | | | | | |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
| (CUK129) | ○ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | 10.000 | SREF 2690.0000 SQ.FT. |
| (CUK131) | □ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | 10.000 | LREF 474.8000 INCHES |
| (CUK133) | ◇ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | 10.000 | RREF 936.6800 INCHES |
| (CUK135) | △ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | 10.000 | XMRP 1076.7000 IN. XO |
| (CUK137) | ▽ | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | 10.000 | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0153 |

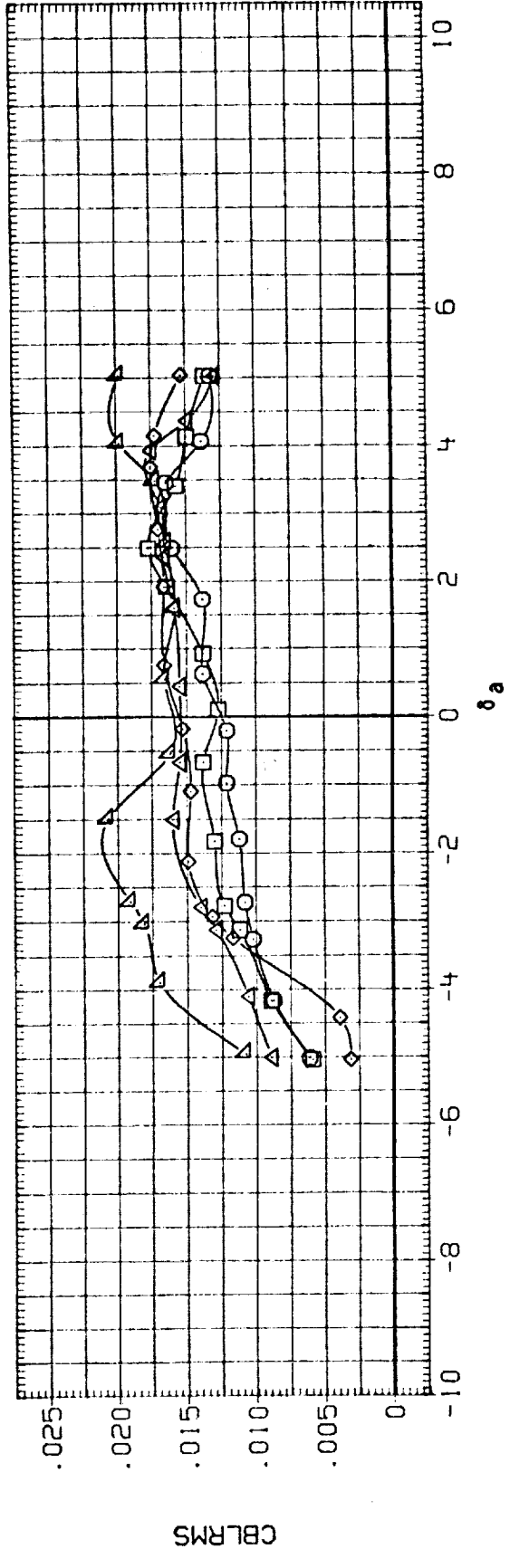
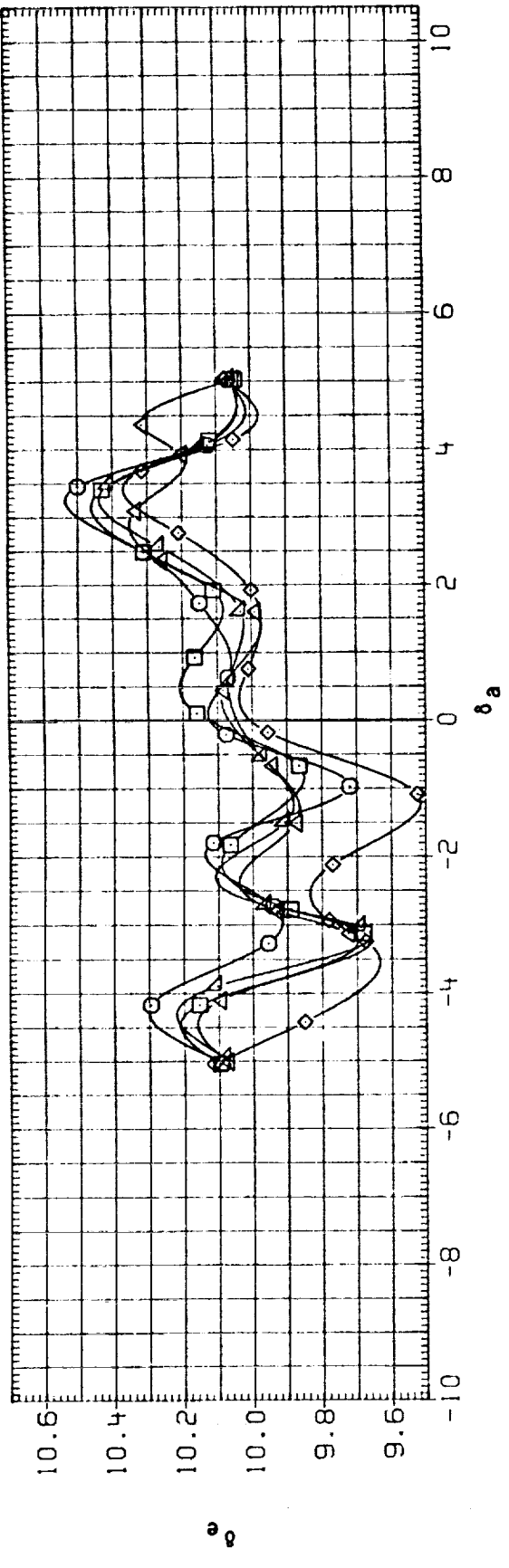


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK129) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | 10.000 | SREF 2690.0000 SQ.FT. |
| (RUK131) | □ | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | 10.000 | LREF 474.8000 INCHES |
| (RUK133) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | 10.000 | BREF 936.6800 INCHES |
| (RUK135) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | 10.000 | XMRP 1076.7000 IN. XO |
| (RUK137) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | 10.000 | ZMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

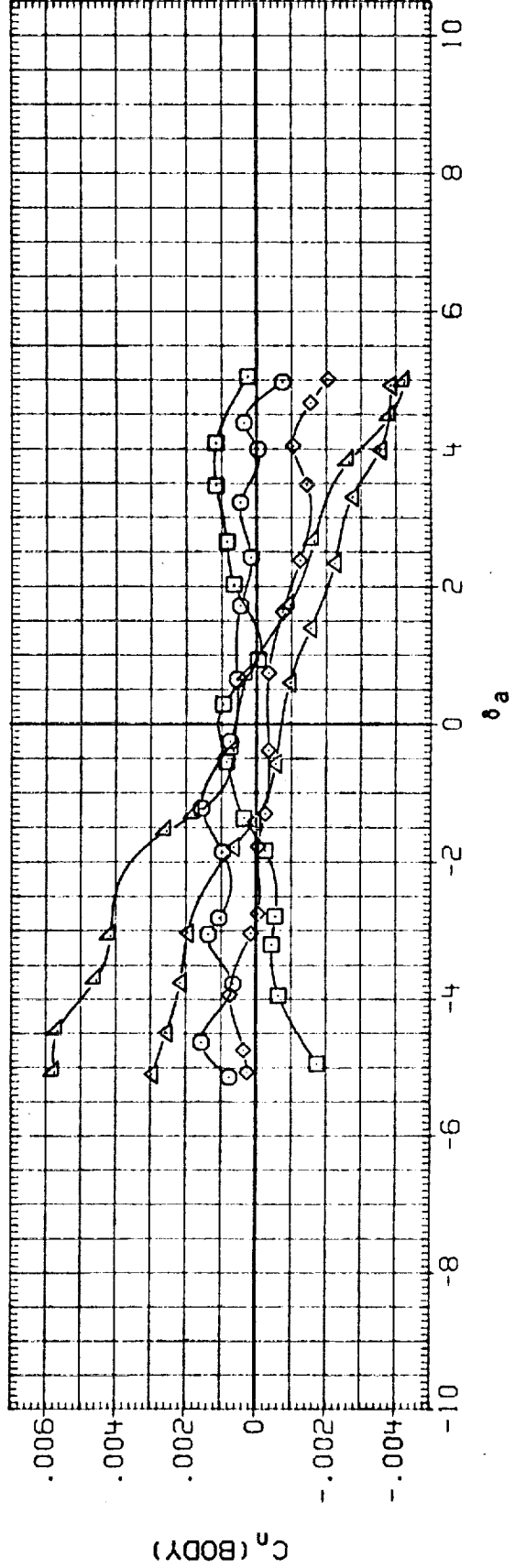
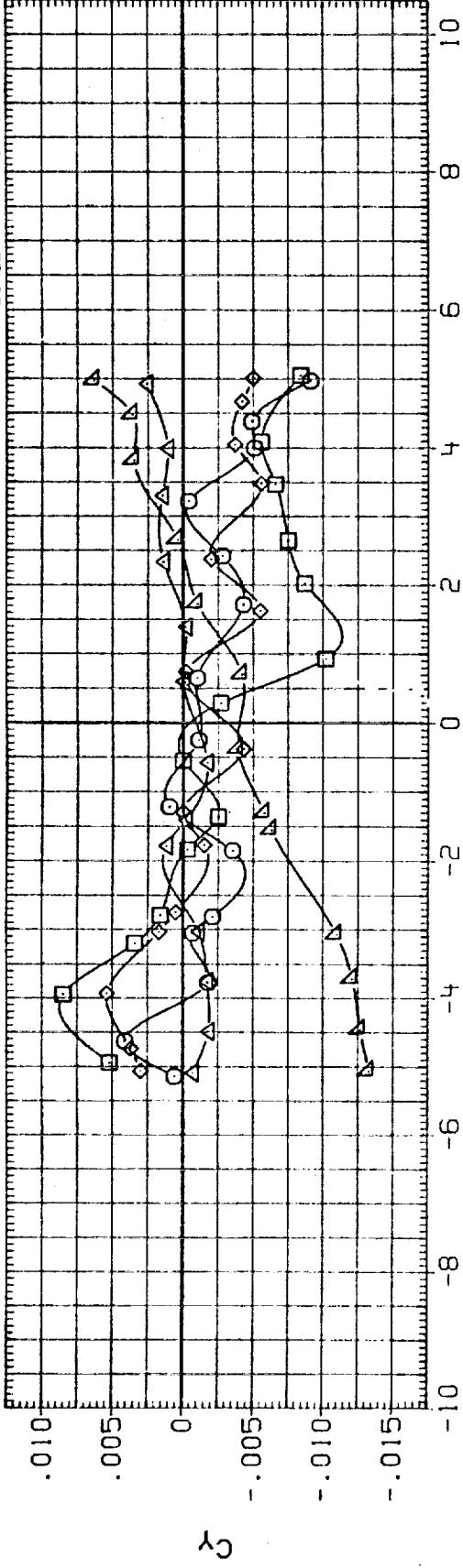


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK129) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | 10.000 | SREF 2690.0000 SQ.FT. |
| (RUK131) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | 10.000 | LREF 474.8000 INCHES |
| (RUK133) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | 10.000 | BREF 936.6800 IN. XO |
| (RUK135) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | 10.000 | XMRP 1076.7000 IN. YO |
| (RUK137) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | 10.000 | YMRP .0000 IN. ZO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

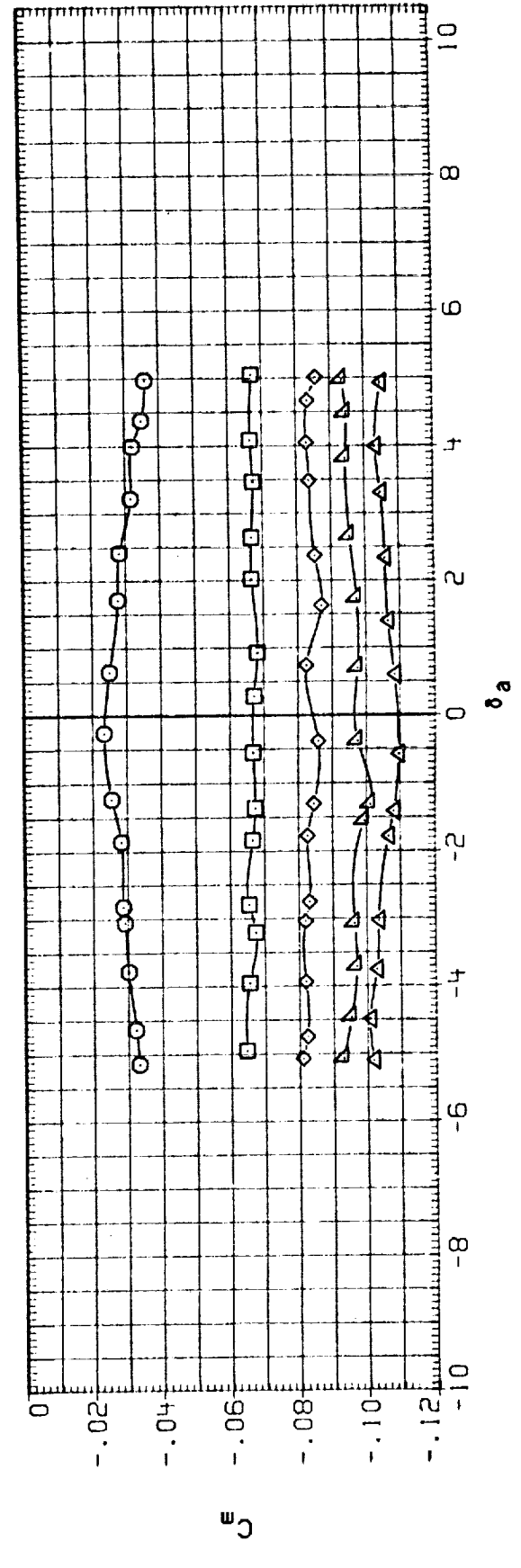
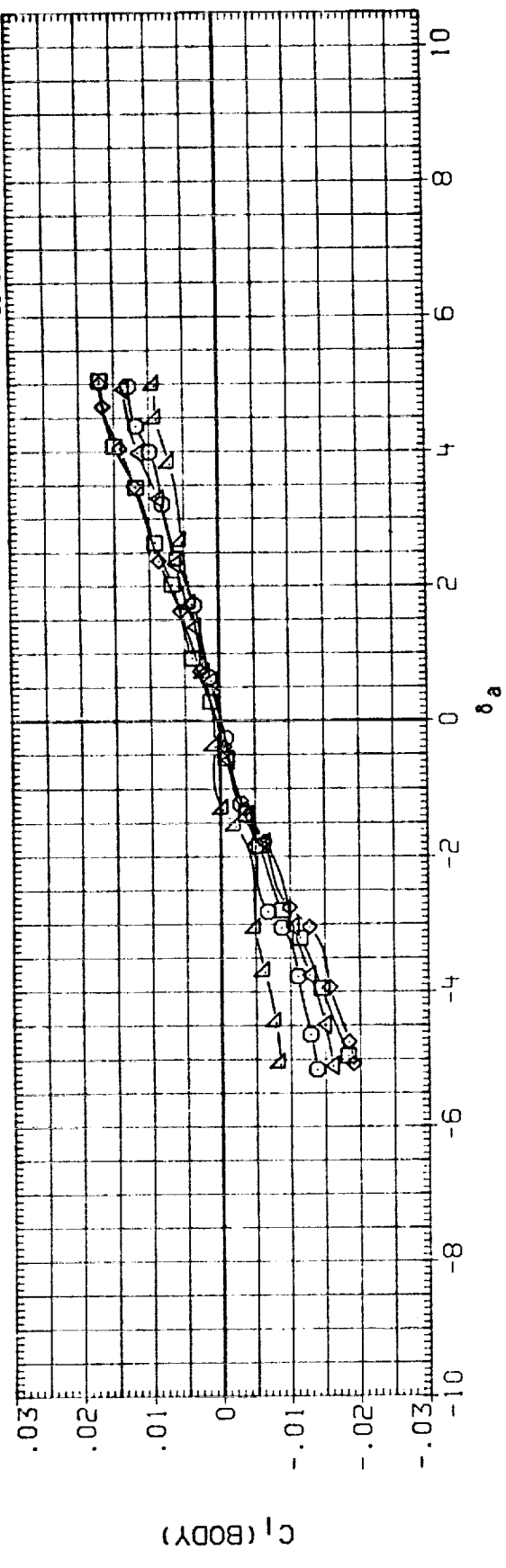


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .90

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION | SO. FT. |
|-----------------|--|-------|--------|------|--------|-----------------------|-----------|
| (RUK129) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | 10.000 | SREF | 2690.0000 |
| (RUK131) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | 10.000 | LREF | 474.8000 |
| (RUK133) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | 10.000 | BREF | 936.6800 |
| (RUK135) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | 10.000 | YMPP | 1076.7000 |
| (RUK137) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | 10.000 | ZMRP | 375.0000 |
| | | | | | | SCALE | .0150 |

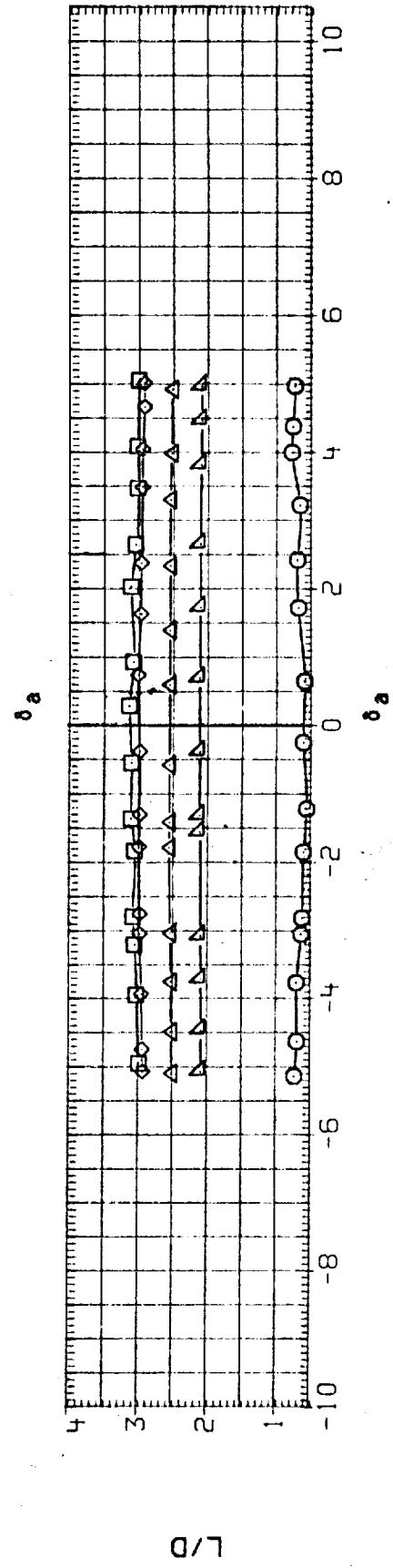
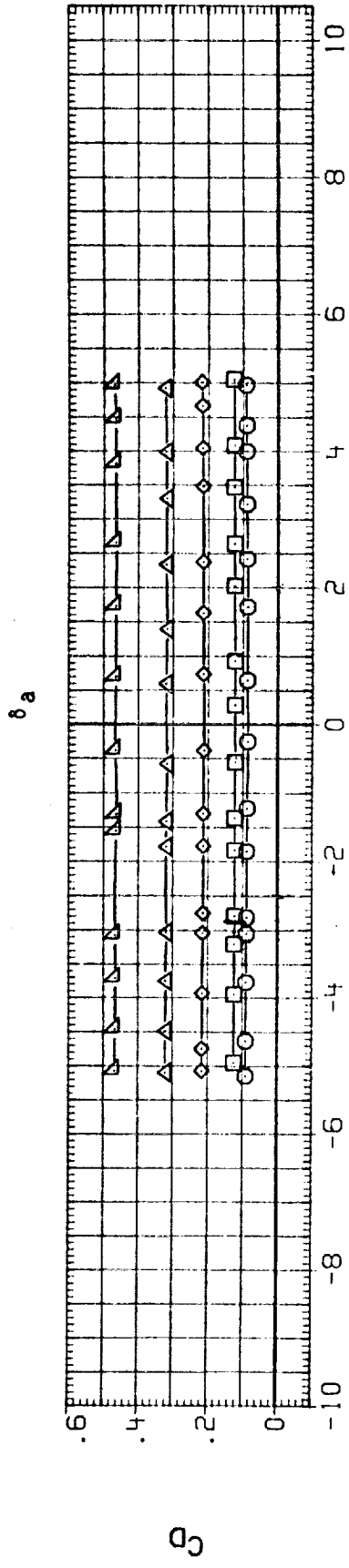
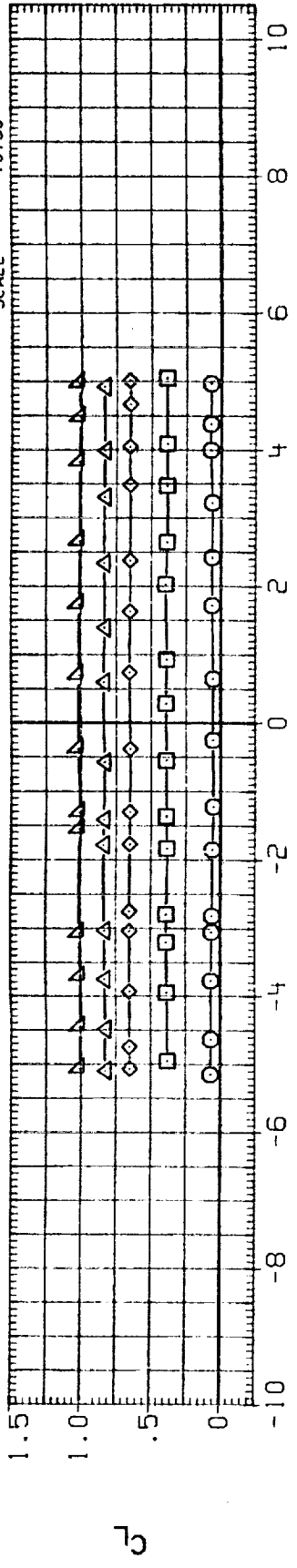


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .90

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.6000 INCHES
 BRFP 936.3800 INCHES
 YMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

ELEVON
 ALPHA BETA
 .000 .000
 5.000 .000
 10.000 .000
 15.000 .000
 20.000 .000

RV/L
 4.500
 4.500
 4.500
 4.500

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

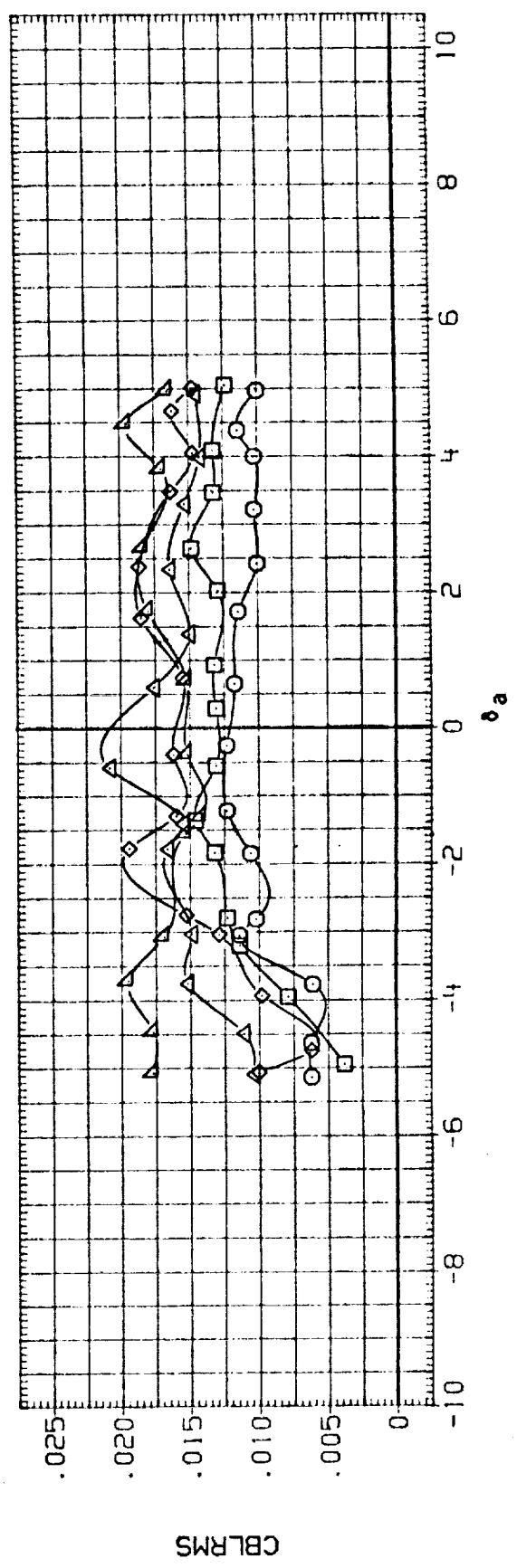
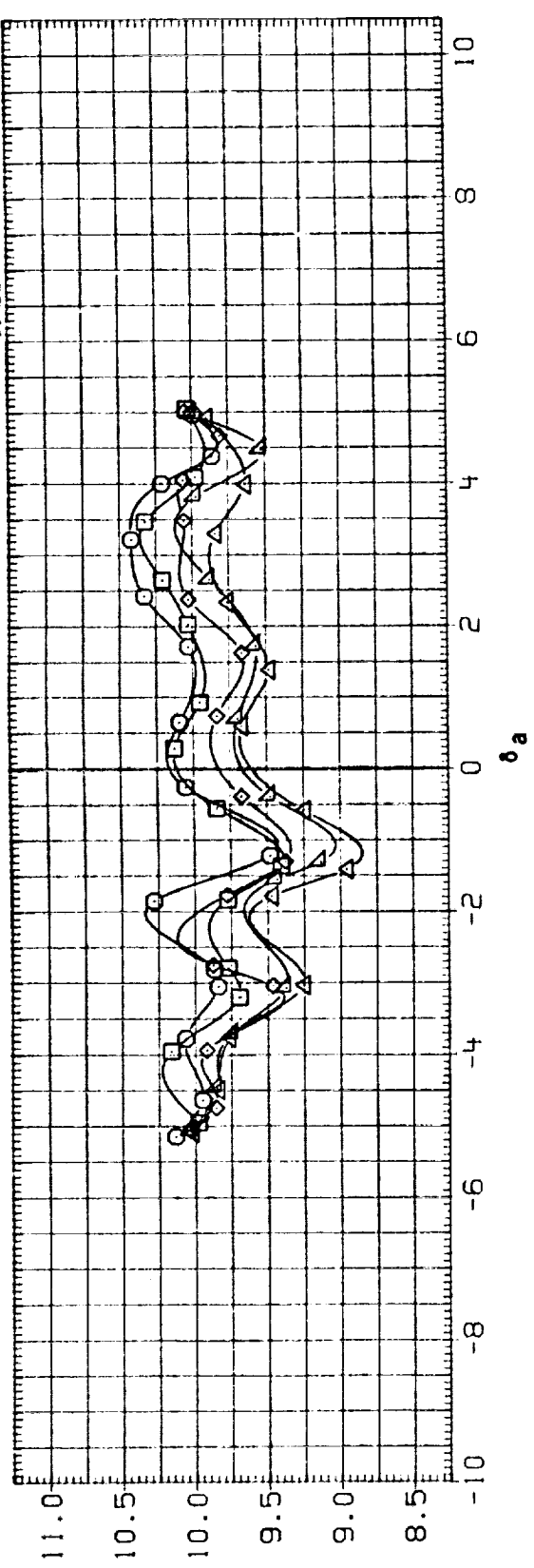


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK129) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | 10.000 | SREF 2690.0000 SQ.FT. |
| (RUK131) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | 10.000 | LREF 474.8000 INCHES |
| (RUK133) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | 10.000 | BREF 936.6800 INCHES |
| (RUK135) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | 10.000 | XMRP 1076.7000 IN. XO |
| (RUK137) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | 10.000 | ZMRP .0000 IN. YO |
| | | | | | | | SCALE 0.150 |

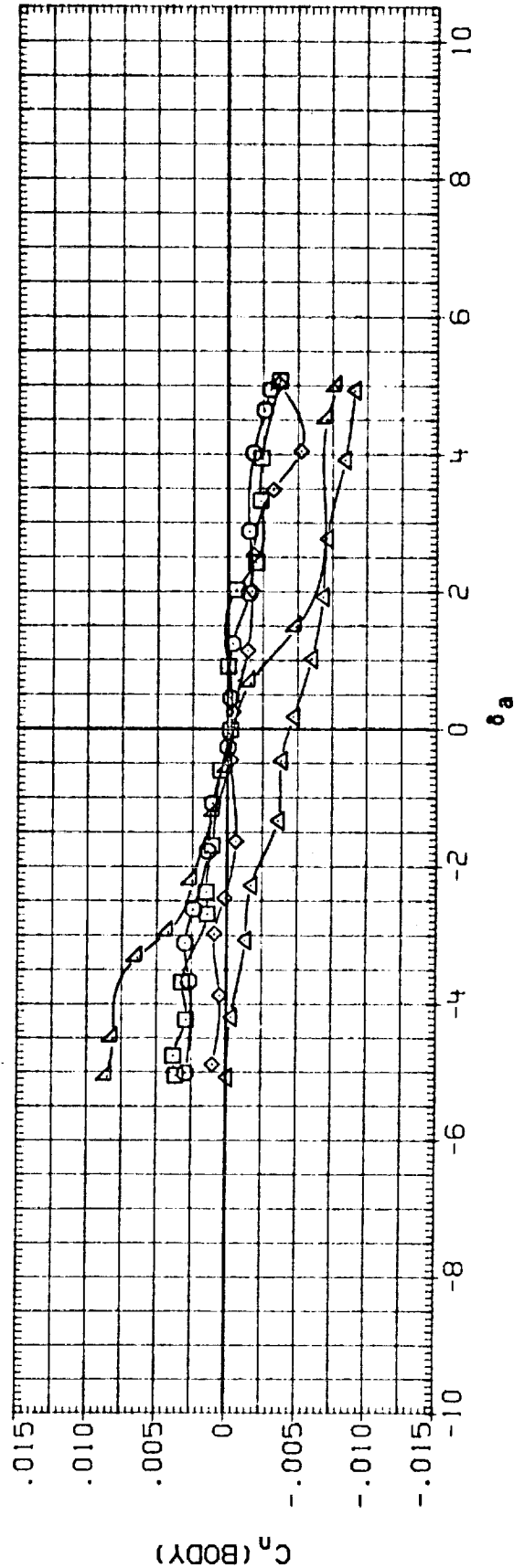
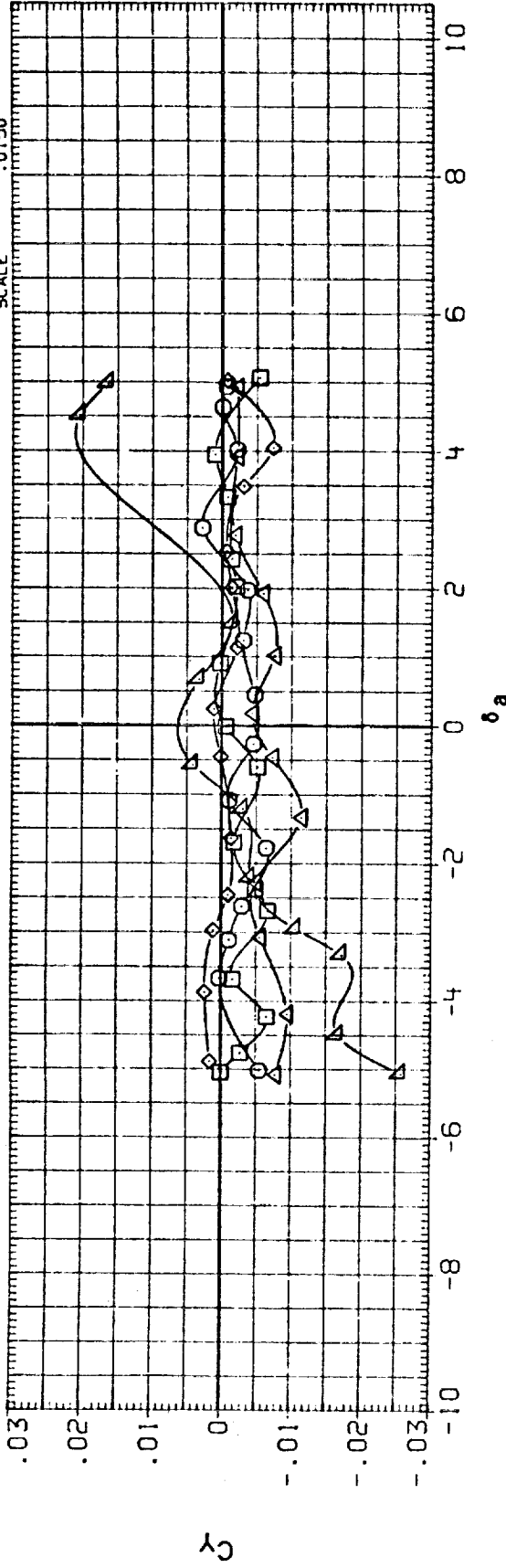


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .95

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|--------|-----------------------|
| (RUK129) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | 10.000 | SREF 2690.0000 SQ.FT. |
| (RUK131) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | 10.000 | LREF 474.8000 INCHES |
| (RUK133) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | 10.000 | BREF 936.6800 INCHES |
| (RUK135) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | 10.000 | YMPP 1076.7000 IN. XO |
| (RUK137) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | 10.000 | ZMPP 375.0000 IN. YO |

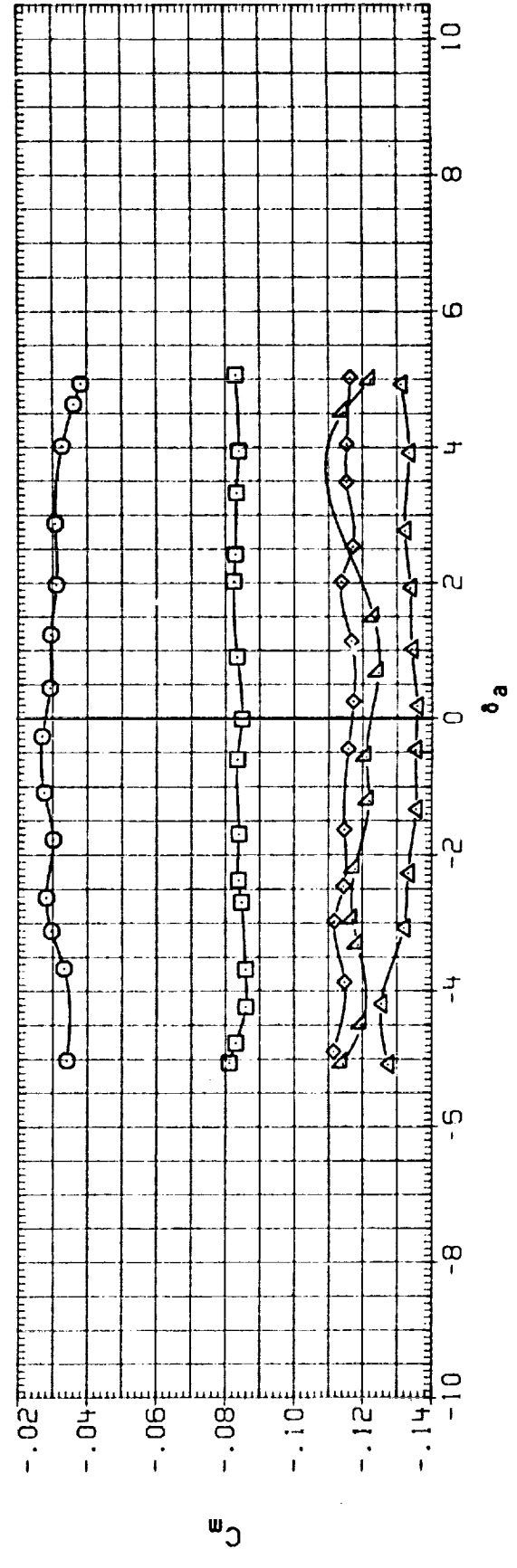
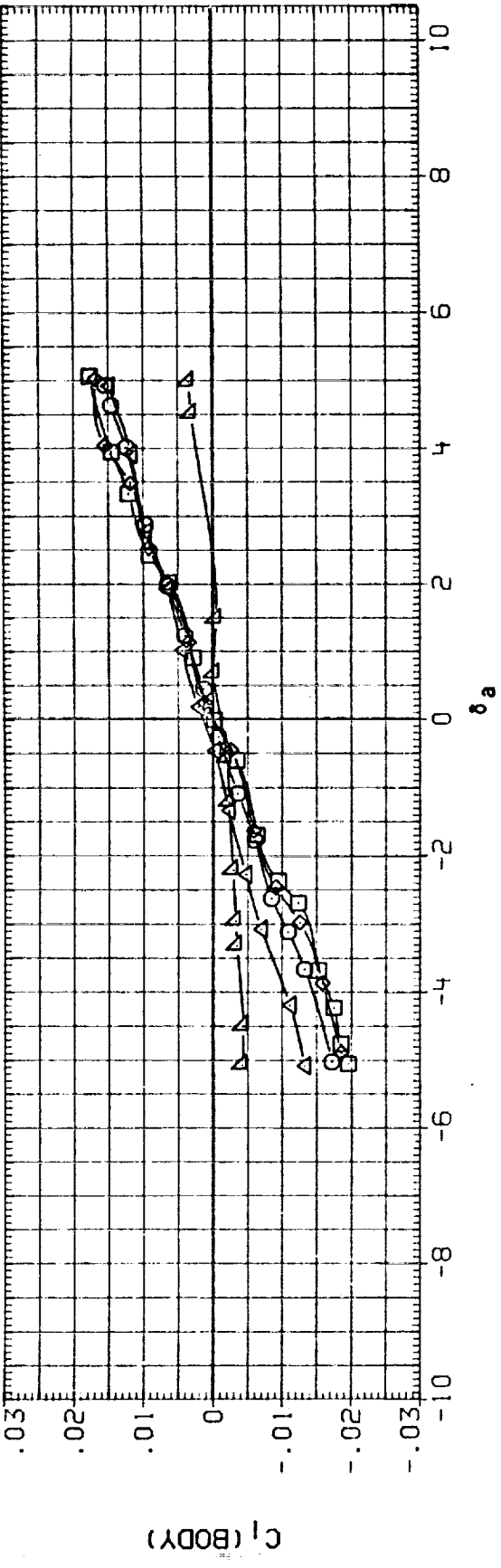


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .95

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|------------------------|
| (RUK129) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | 10.000 | SREF 2690.0000 SQ. FT. |
| (RUK131) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | 10.000 | LREF 474.8000 INCHES |
| (RUK133) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | 10.000 | BREF 936.6800 INCHES |
| (RUK135) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | 10.000 | XMRP 1076.7000 IN. XO |
| (RUK137) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | 10.000 | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

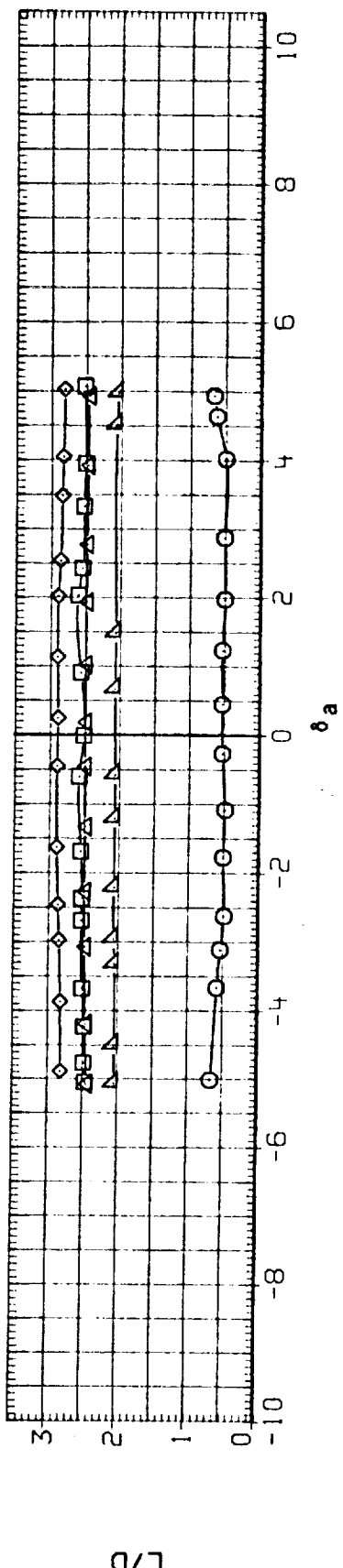
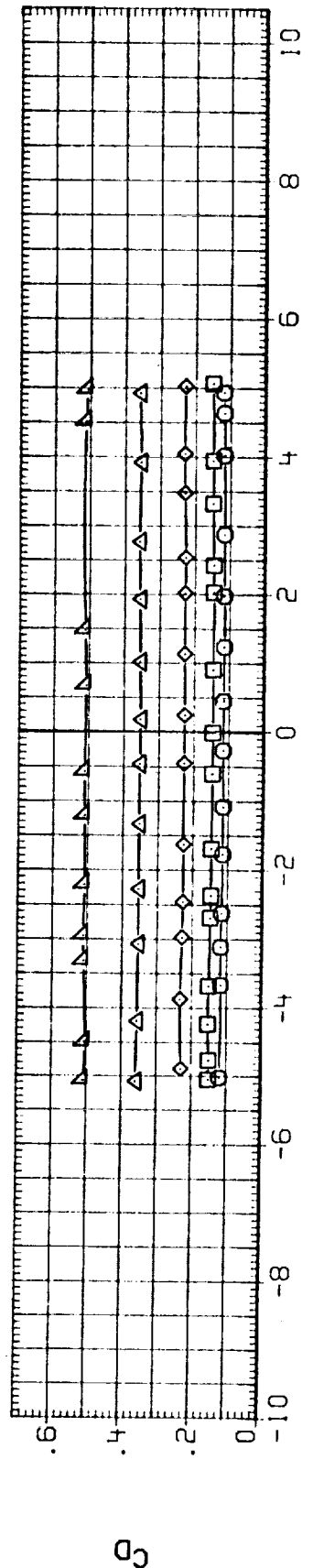
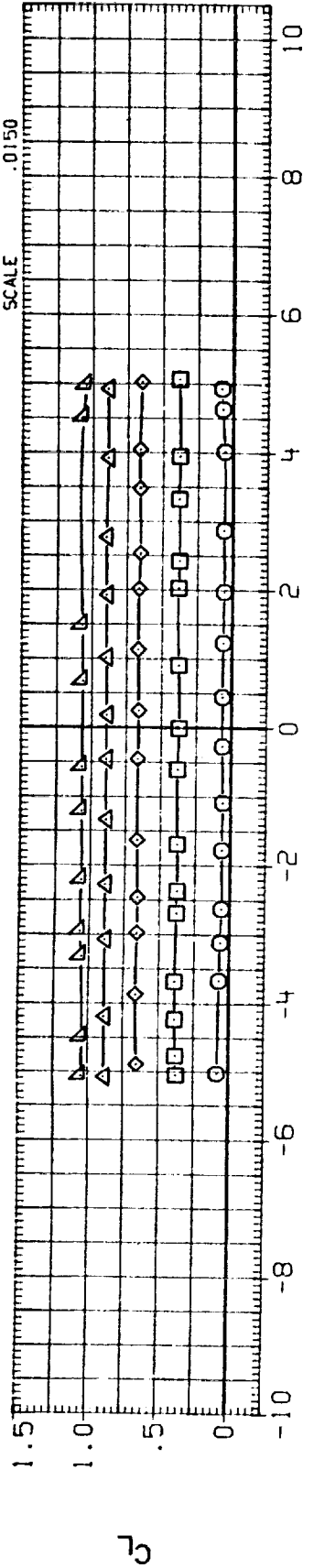


FIG. 27 AILERON LINEARITY, ELEVON = 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION

- (CUK129) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (CUK131) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (CUK133) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (CUK135) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (CUK137) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

| RNVL | ALPHA | BETA | ELEVON |
|-------|--------|------|--------|
| 4.500 | .000 | .000 | 10.000 |
| 4.500 | 5.000 | .000 | 10.000 |
| 4.500 | 10.000 | .000 | 10.000 |
| 4.500 | 15.000 | .000 | 10.000 |
| 4.500 | 20.000 | .000 | 10.000 |

| REFERENCE INFORMATION | SREF | LREF | BREF | XMRP | YMRP | ZMRP | SCALE |
|-----------------------|-----------|----------|----------|-----------|-------|----------|-------|
| SO.FT. | 2690.0000 | 474.8000 | 936.8800 | 1076.7000 | .0000 | 375.0000 | .0150 |
| INCHES | | | | | | | |
| IN. XO | | | | | | | |
| IN. YO | | | | | | | |
| IN. ZO | | | | | | | |

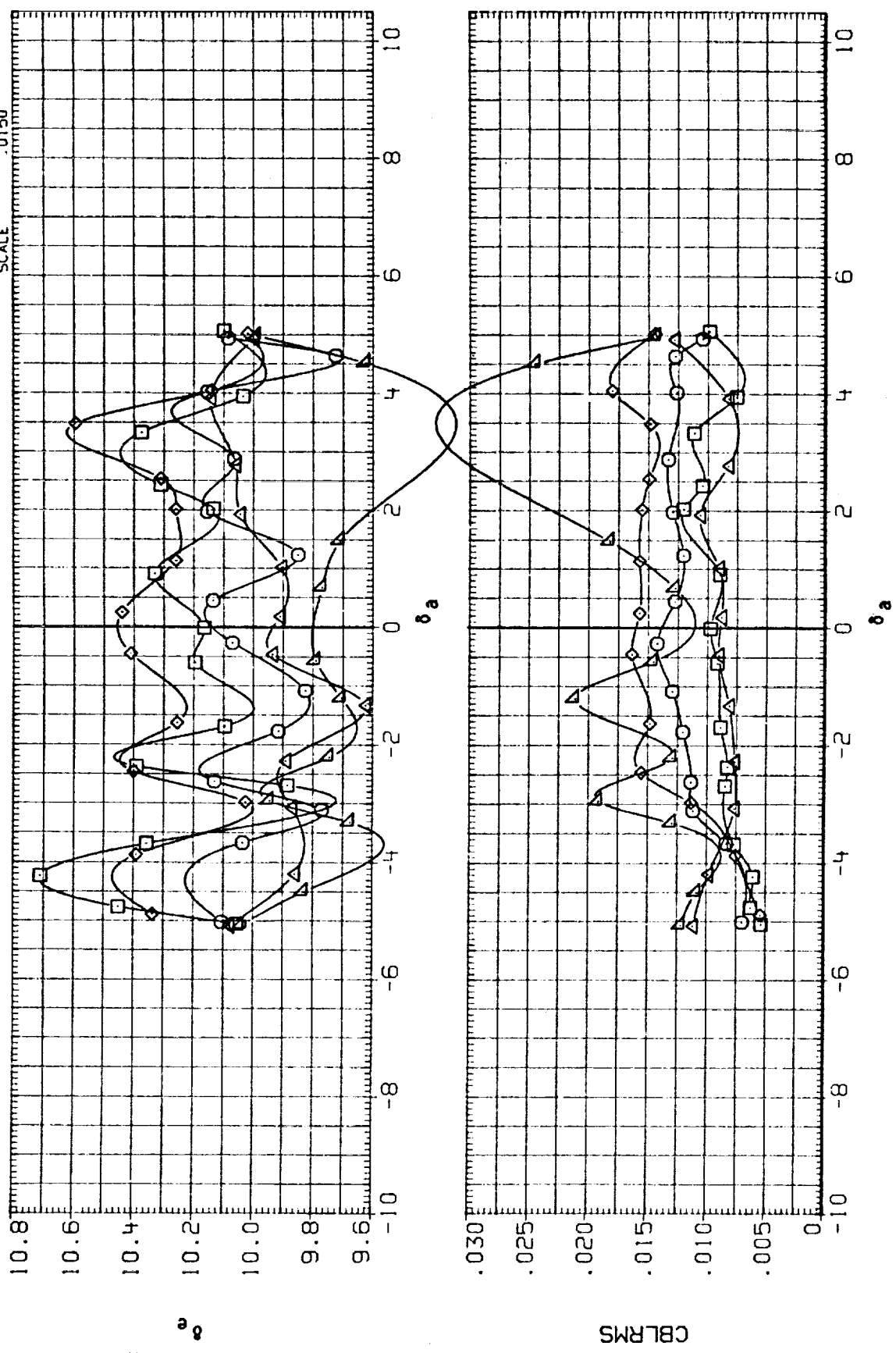


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .95

DATA SET SYMBOL

(RUK129) \square

(RUK131) \square

(RUK133) \diamond

(RUK135) \triangle

(RUK137) \triangle

CONFIGURATION DESCRIPTION

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA BETA ELEVON

4.500 .000 10.000 10.000

4.500 5.000 10.000 10.000

4.500 10.000 10.000 10.000

4.500 15.000 10.000 10.000

4.500 20.000 10.000 10.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

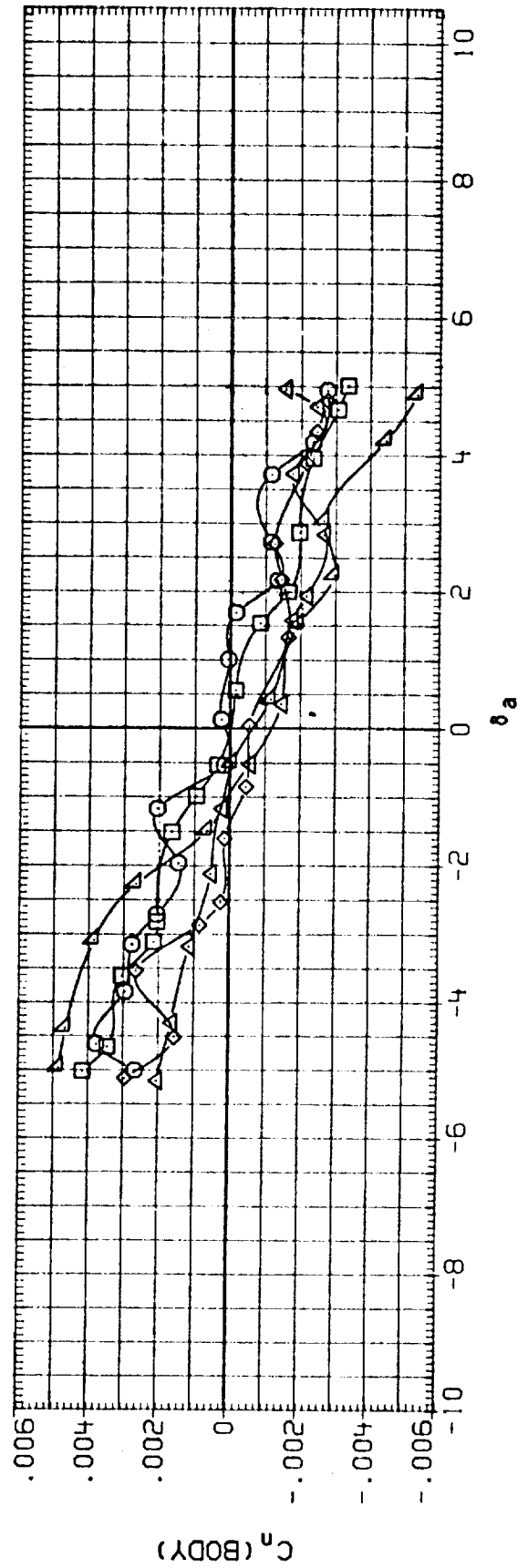
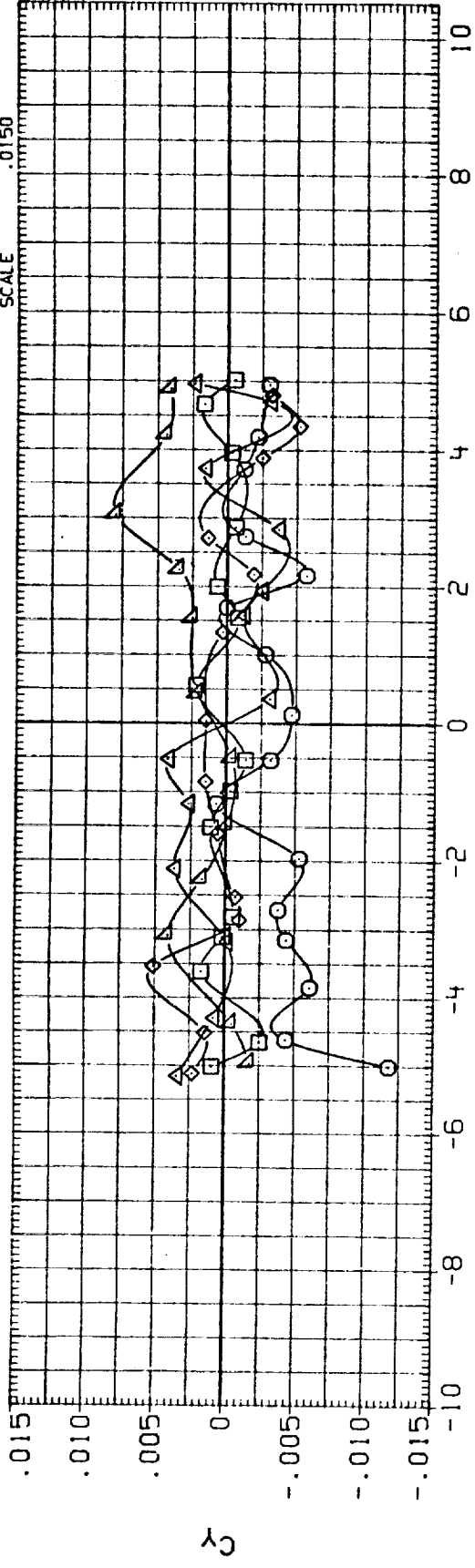


FIG. 27 AILERON LINEARITY, ELEVON = 10

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|--------|------------------------|
| (RUK129) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | 10.000 | SREF 2690.0000 SO. FT. |
| (RUK131) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | 10.000 | LREF 474.8000 INCHES |
| (RUK133) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | 10.000 | BREF 936.6800 INCHES |
| (RUK135) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | 10.000 | XMRP 1076.7000 IN. XO |
| (RUK137) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 20.000 | .000 | 10.000 | ZMRP 375.0000 IN. YO |

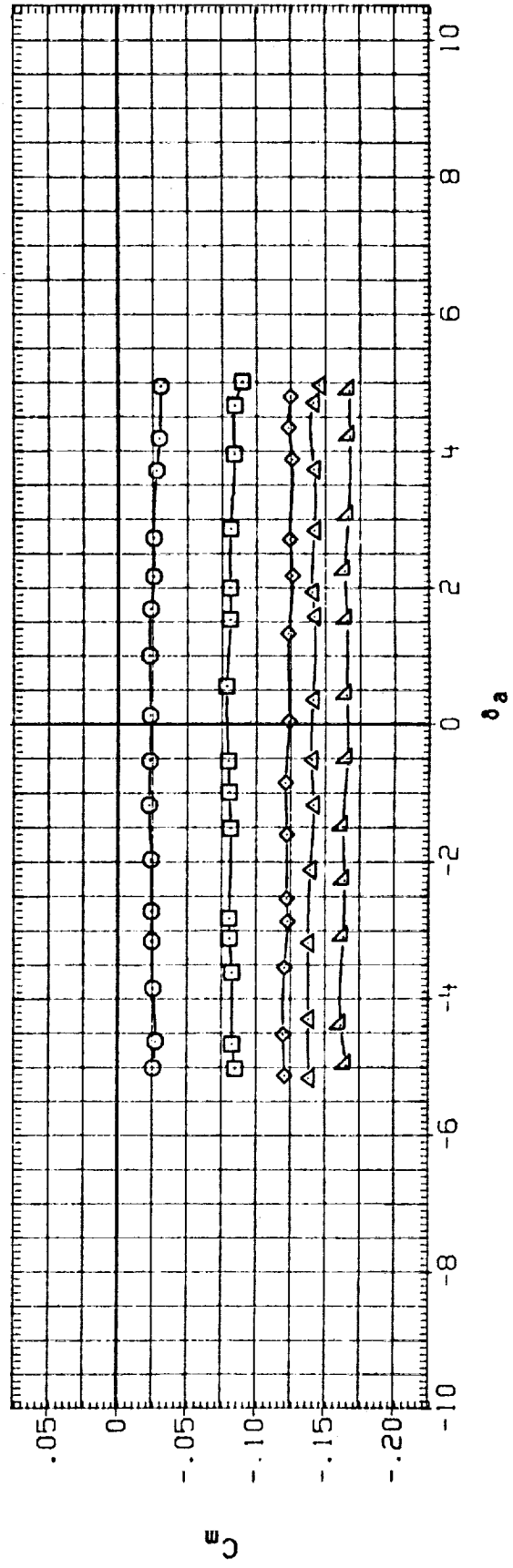
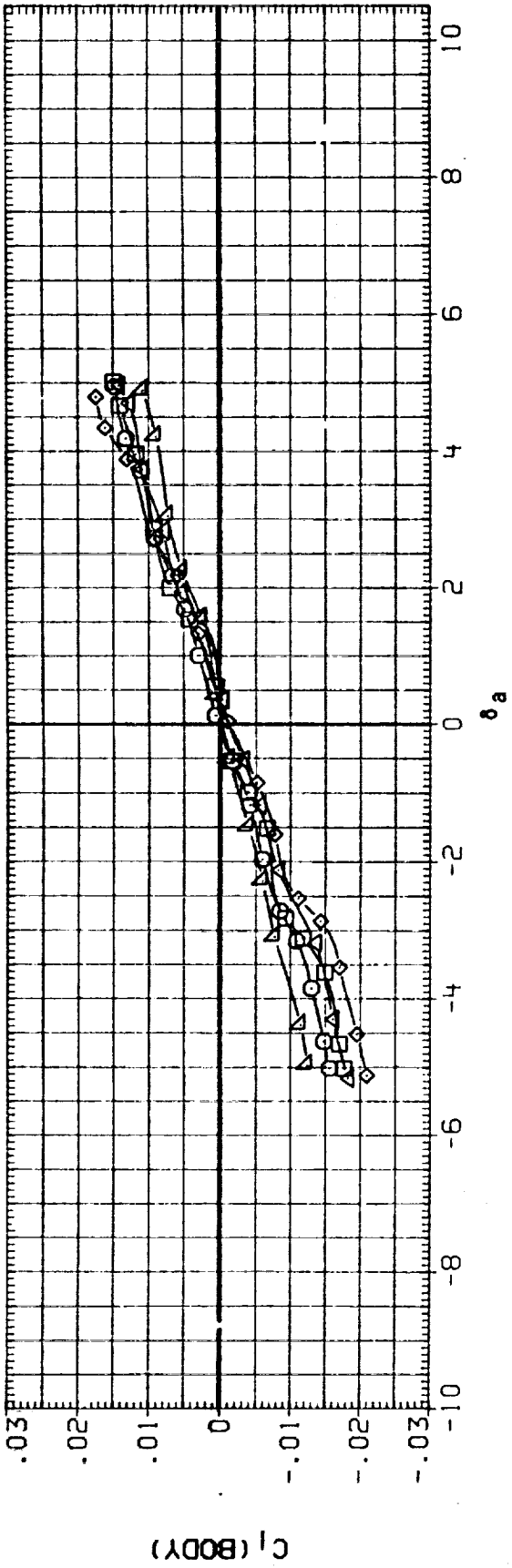


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION

- (RUK129) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (RUK131) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (RUK133) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (RUK135) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (RUK137) ▲ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RV/L

- 4.500
- 4.500
- 4.500
- 4.500
- 4.500

ALPHA

- .000
- 5.000
- 10.000
- 15.000
- 20.000

BETA

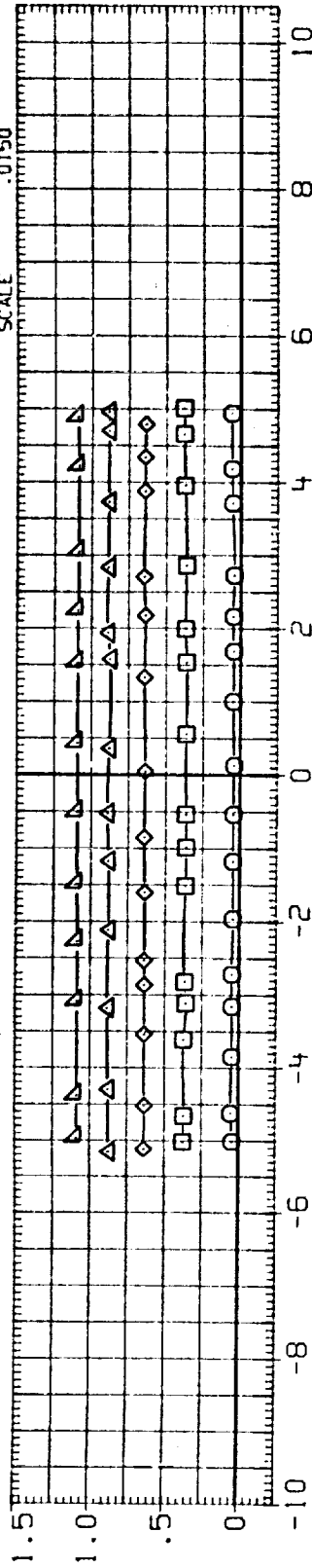
- .000
- .000
- .000
- .000
- .000

ELEVON

- 10.000
- 10.000
- 10.000
- 10.000
- 10.000

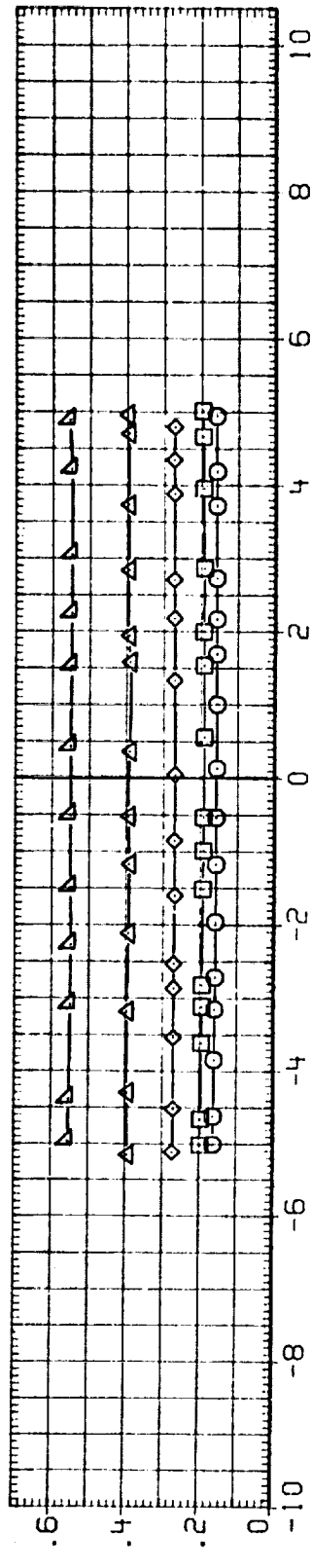
REFERENCE INFORMATION

- SREF 2690.0000 SO. FT.
- LREF 474.8000 INCHES
- BREF 936.6800 INCHES
- XMRP 1076.0000 IN. XO
- YMRP .0000 IN. YO
- ZMRP 375.0000 IN. ZO
- SCALE .0150



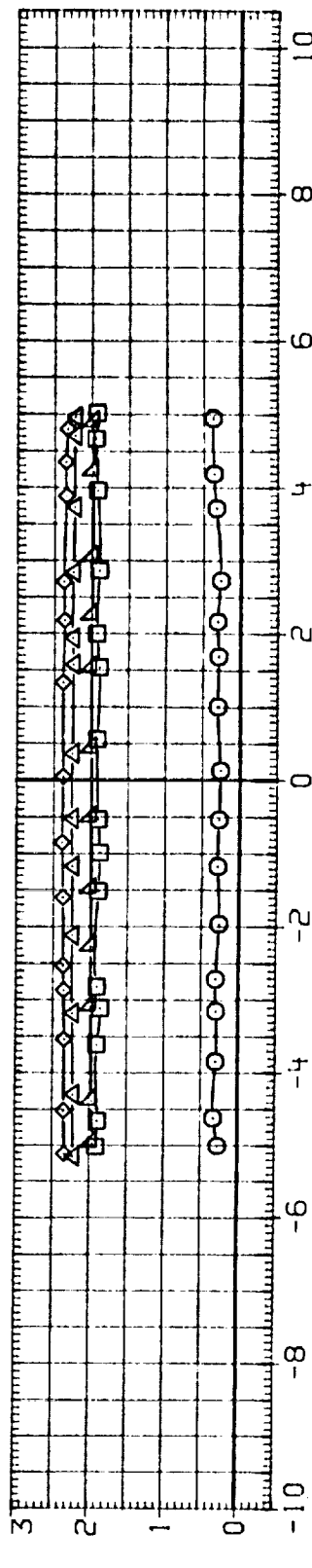
L/D

δ_a



L/D

δ_a



L/D

δ_a

FIG. 27 AILERON LINEARITY, ELEVON = 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK129) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK131) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK133) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK135) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK137) ▽ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RM/L ALPHA BETA ELEVON

4.500 .000 .000 10.000

4.500 5.000 .000 10.000

4.500 10.000 .000 10.000

4.500 15.000 .000 10.000

4.500 20.000 .000 10.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

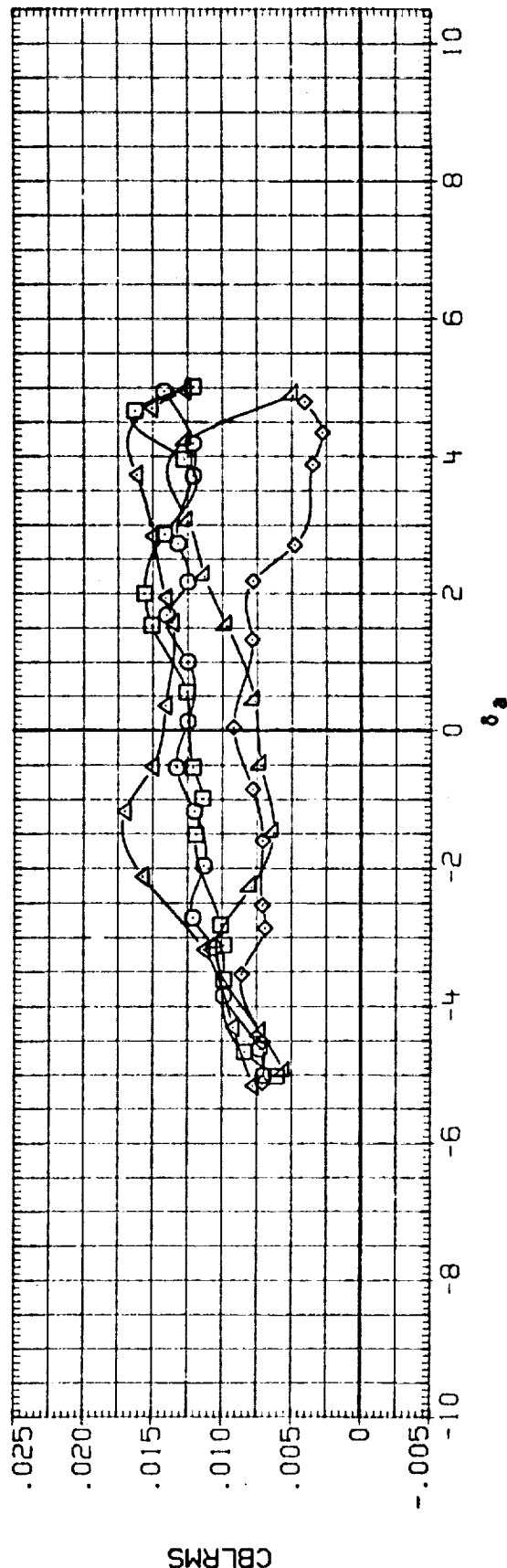
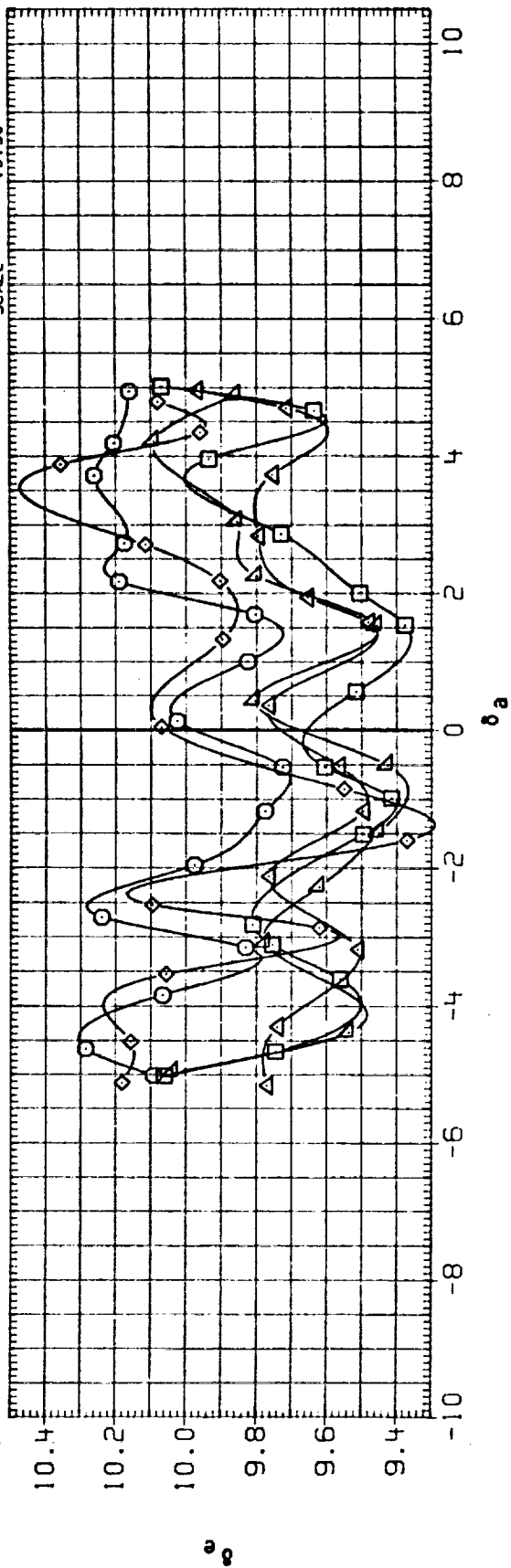


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = 1.05

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|--------|------------------------|
| (RUK129) | DATA NOT AVAILABLE | 4.500 | .000 | .000 | 10.000 | SREF 2690.0000 SO. FT. |
| (RUK131) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | 10.000 | LREF 474.8000 INCHES |
| (RUK133) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 4.500 | 10.000 | .000 | 10.000 | BREF 936.6800 INCHES |
| (RUK135) | DATA NOT AVAILABLE | 4.500 | 15.000 | .000 | 10.000 | XMRP 1076.7000 IN. XO |
| (RUK137) | DATA NOT AVAILABLE | 4.500 | 20.000 | .000 | 10.000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

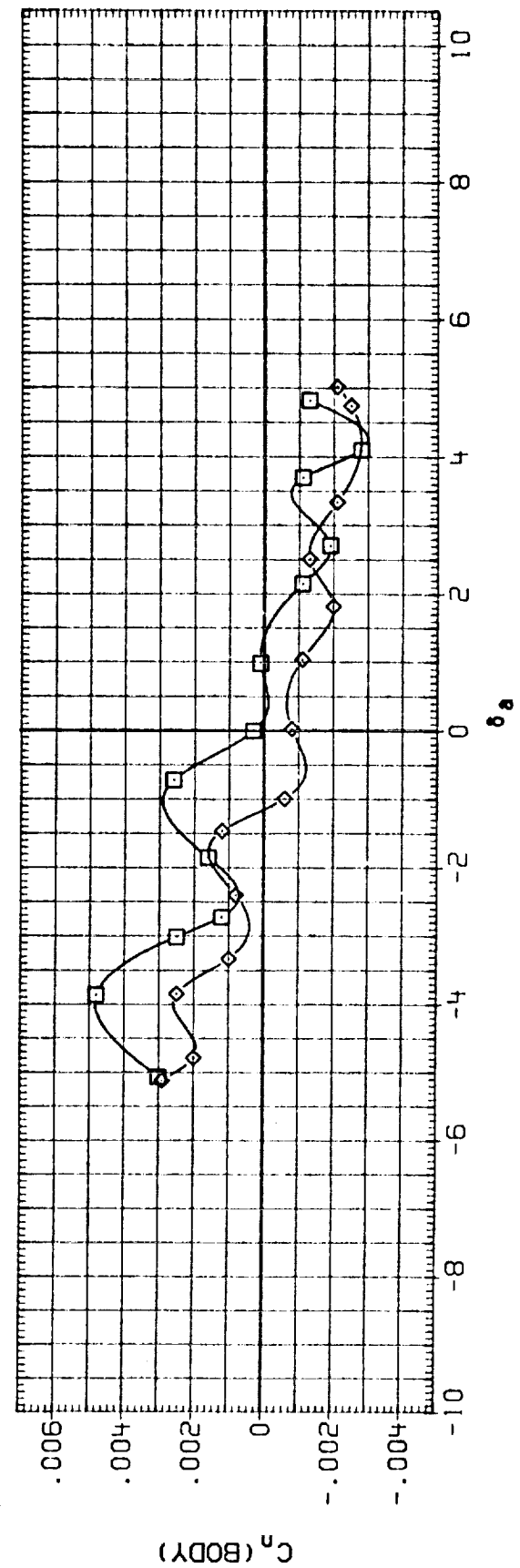
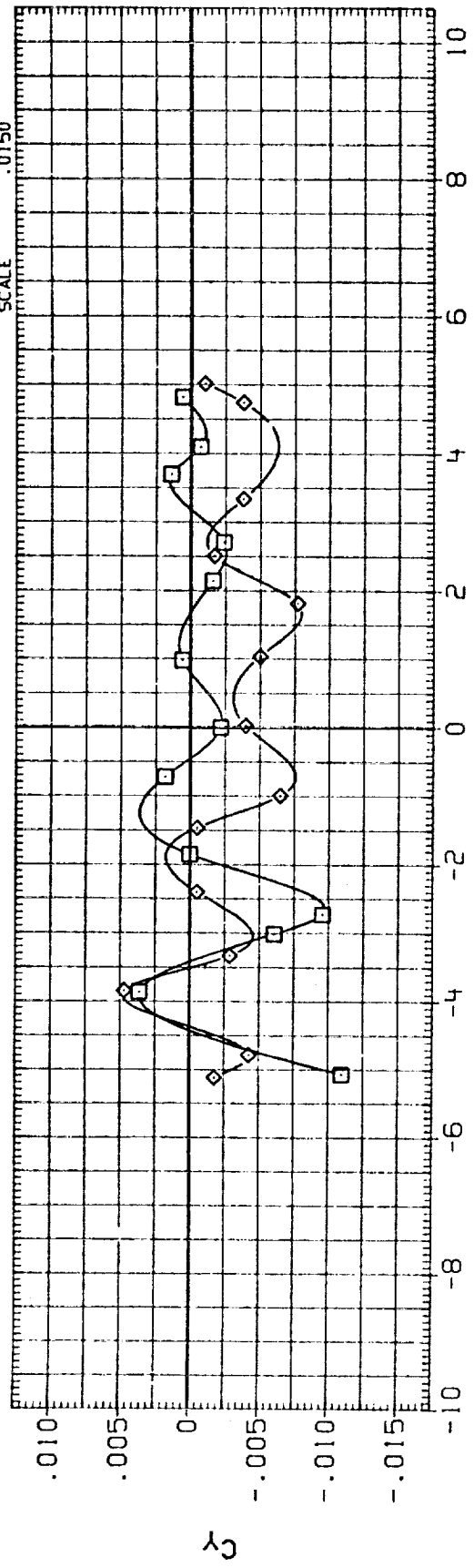


FIG. 27 AILERON LINEARITY, ELEVON = 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK129) DATA NOT AVAILABLE
 (RUK131) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK133) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK135) DATA NOT AVAILABLE
 (RUK137) DATA NOT AVAILABLE

RN/L ALPHA BETA ELEVON

4.500 .000 .000 10.000
 4.500 5.000 .000 10.000
 4.500 10.000 .000 10.000
 4.500 15.000 .000 10.000
 4.500 20.000 .000 10.000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 935.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

SCALE .0150

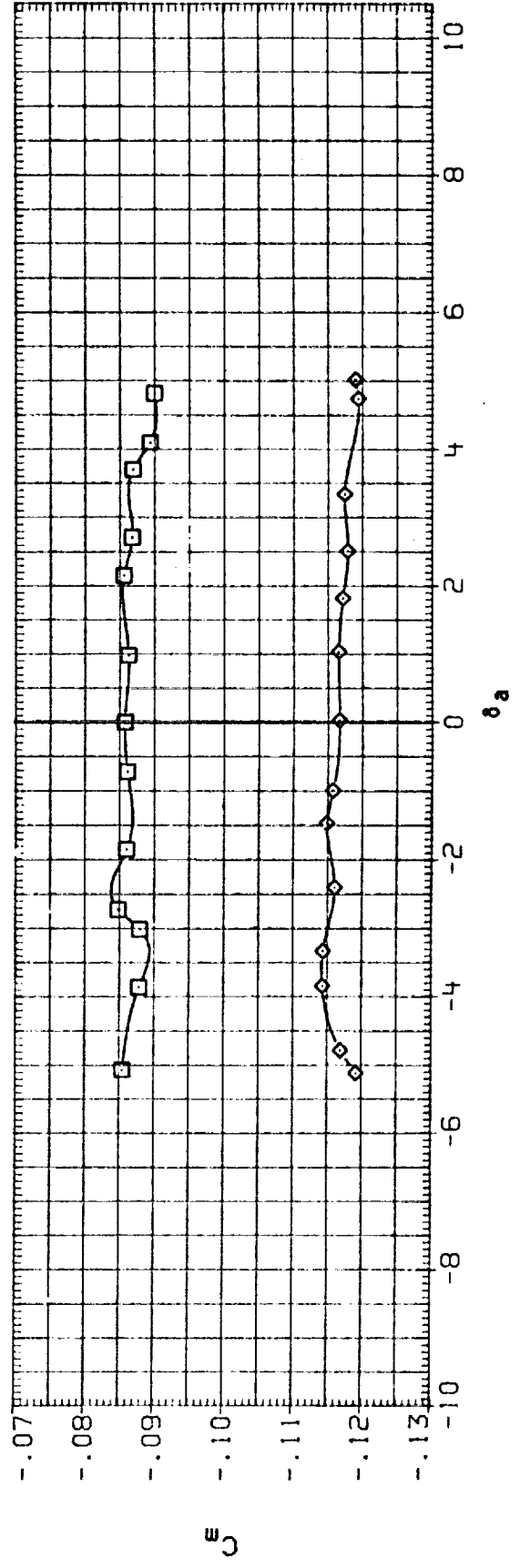
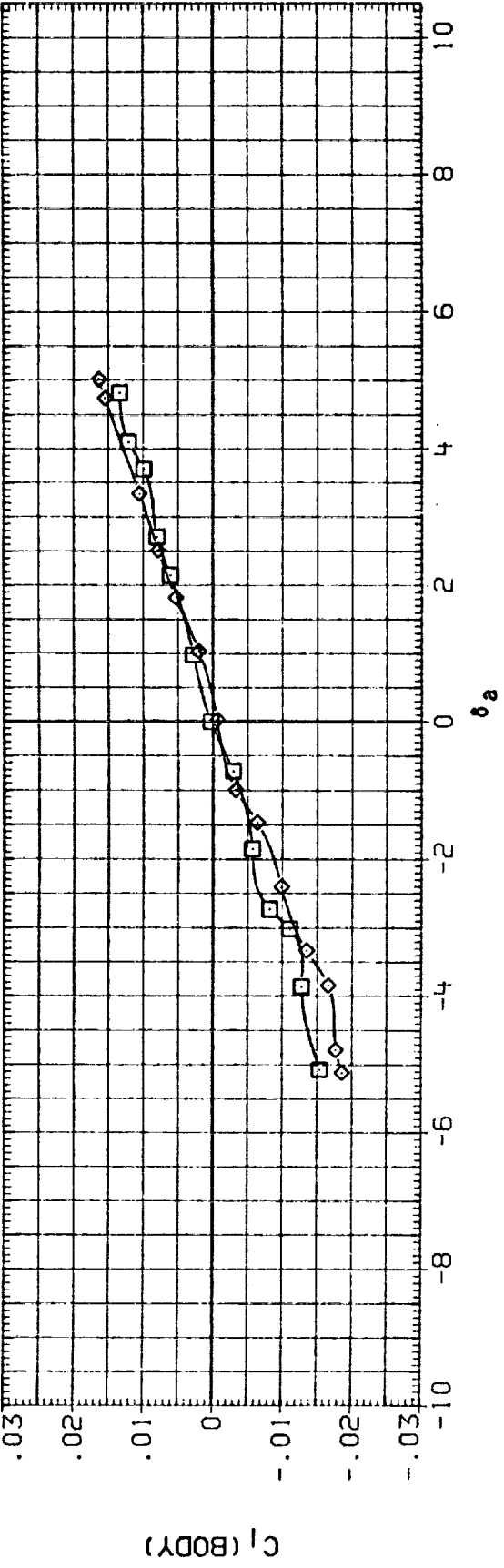


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = 1.12

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK129) DATA NOT AVAILABLE
 (RUK131) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK133) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK135) DATA NOT AVAILABLE
 (RUK137) DATA NOT AVAILABLE

RN/L ALPHA BETA ELEVON

4.500 .000 .000 10.000
 4.500 5.000 .000 10.000
 4.500 10.000 .000 10.000
 4.500 15.000 .000 10.000
 4.500 20.000 .000 10.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XHRP 1075.7000 IN. XO
 YHRP .0000 IN. YO
 ZHRP 375.0000 IN. ZO
 SCALE .0150

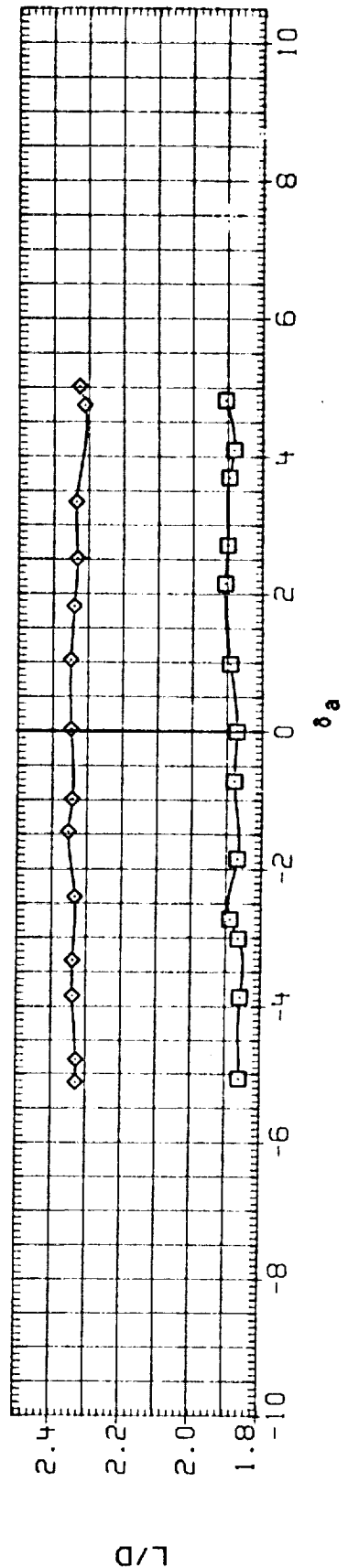
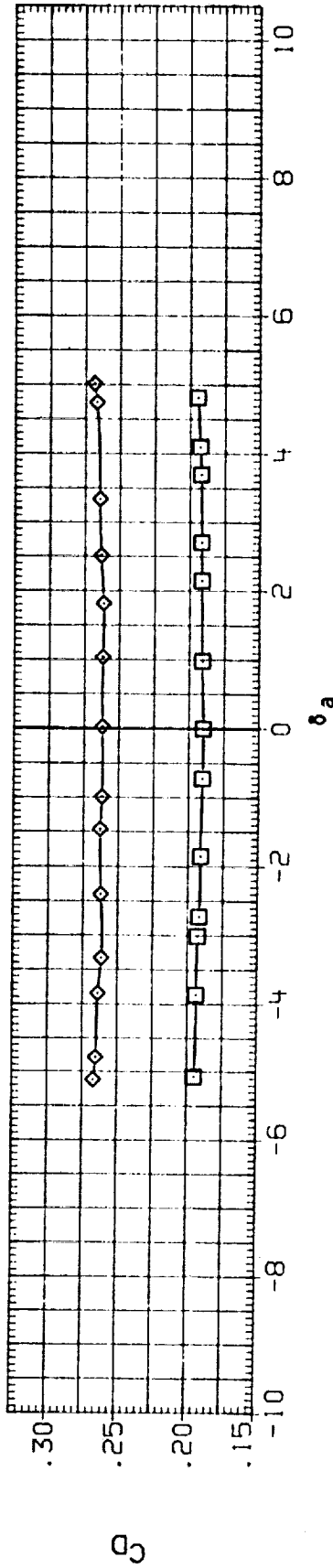
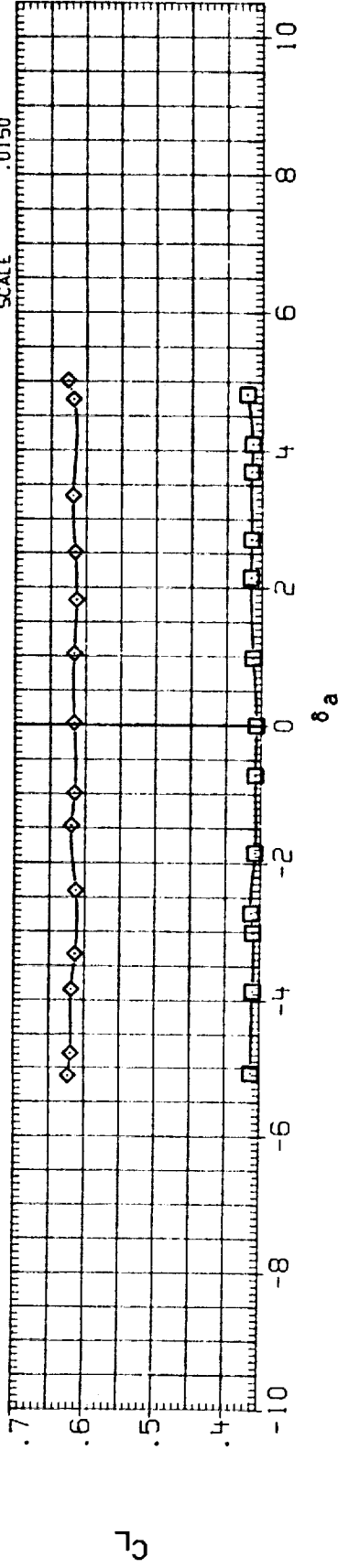


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A)MACH = 1.12

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK129) □ DATA NOT AVAILABLE
 (CUK131) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK133) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK135) □ DATA NOT AVAILABLE
 (CUK137) □ DATA NOT AVAILABLE

RN/L ALPHA BETA ELEVON

4.500 .000 10.000
 4.500 5.000 10.000
 4.500 10.000 10.000
 4.500 15.000 10.000
 4.500 20.000 10.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

SCALE .0150

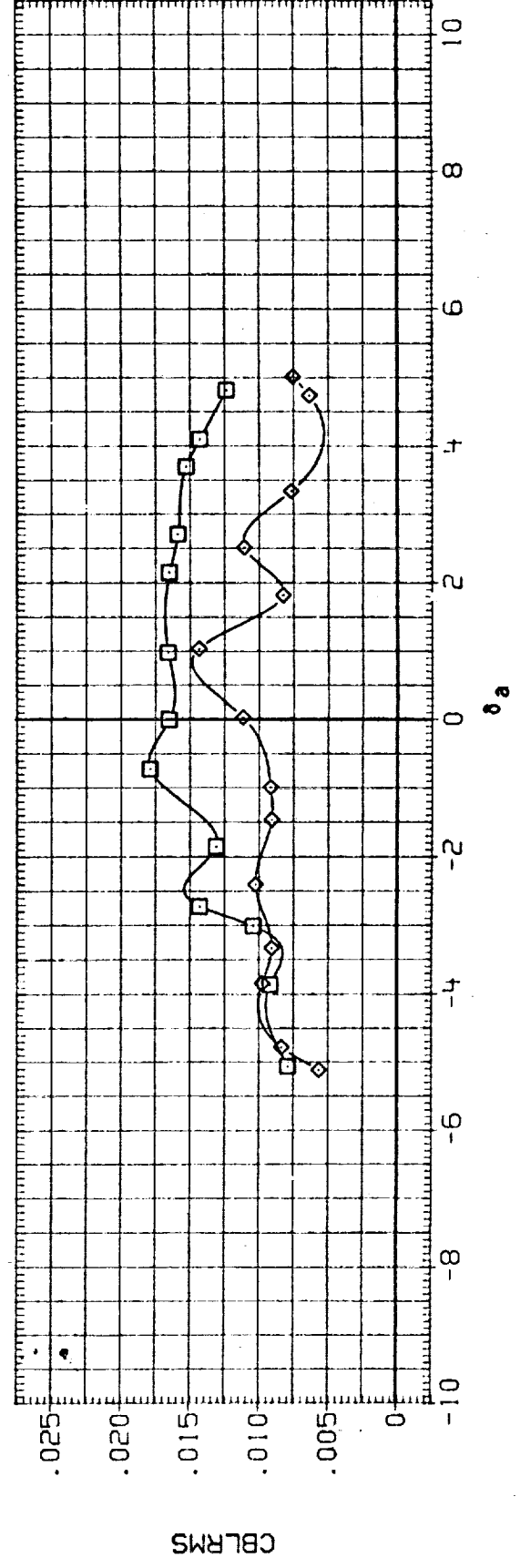
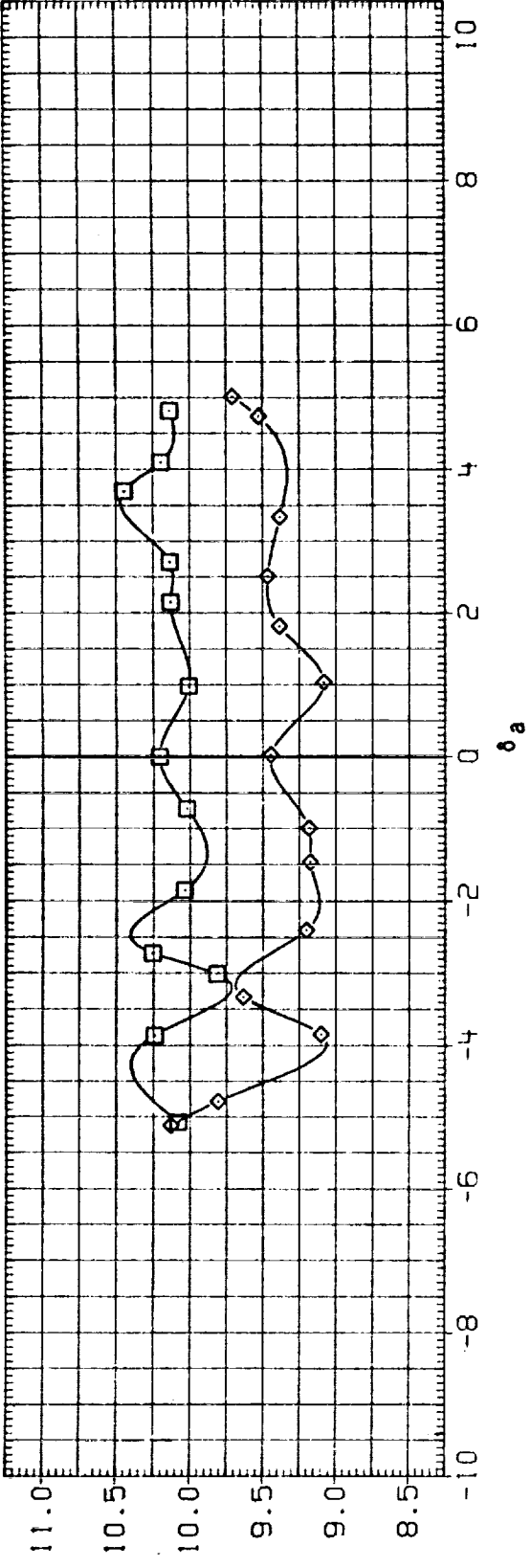


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A)MACH = 1.12

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|-----------------------|
| (RUK130) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | .000 | .000 | 10.000 | SREF 2690.0000 SQ.FT. |
| (RUK132) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 5.000 | .000 | 10.000 | LREF 474.8000 INCHES |
| (RUK134) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 10.000 | .000 | 10.000 | BREF 936.6800 INCHES |
| (RUK136) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 15.000 | .000 | 10.000 | XMRP 1076.7000 IN. XO |
| (RUK138) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 20.000 | .000 | 10.000 | YMRP 375.0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

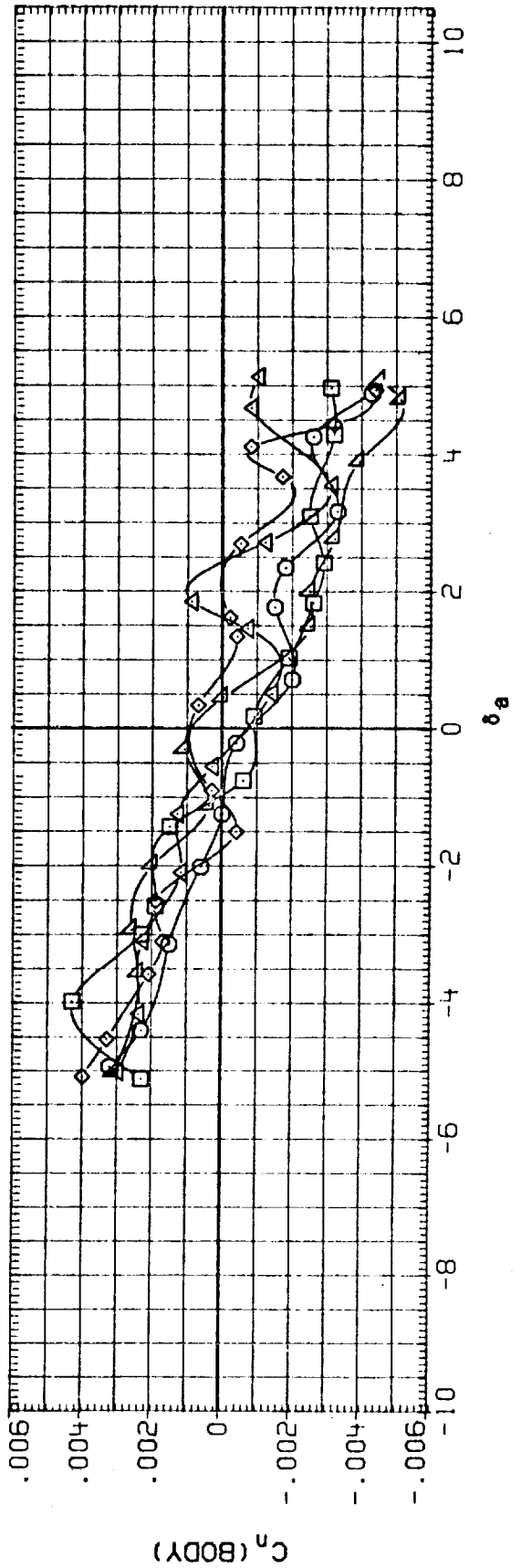
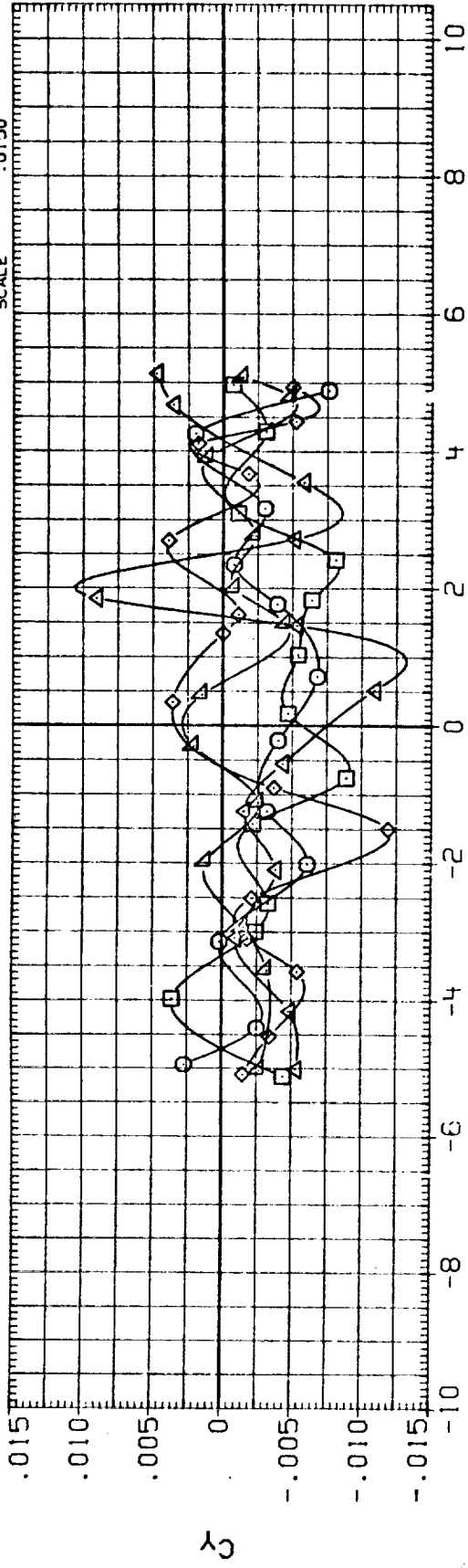


FIG. 27 AILERON LINEARITY, ELEVON = 10

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|--------|-----------------------|
| (RUK130) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4,000 | .000 | .000 | 10.000 | SREF 2690.0000 SQ.FT. |
| (RUK132) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4,000 | 5.000 | .000 | 10.000 | LREF 474.8000 INCHES |
| (RUK134) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4,000 | 10.000 | .000 | 10.000 | GREF 936.6800 INCHES |
| (RUK136) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4,000 | 15.000 | .000 | 10.000 | XMRP 1076.7000 IN. XO |
| (RUK138) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4,000 | 20.000 | .000 | 10.000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |

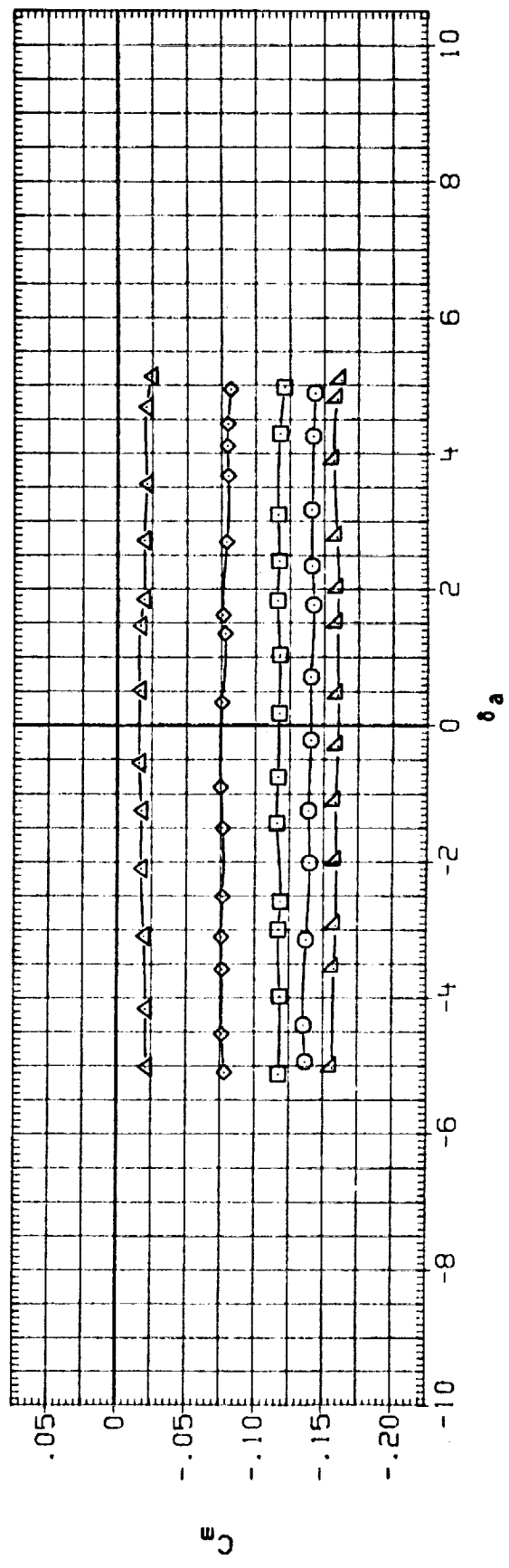
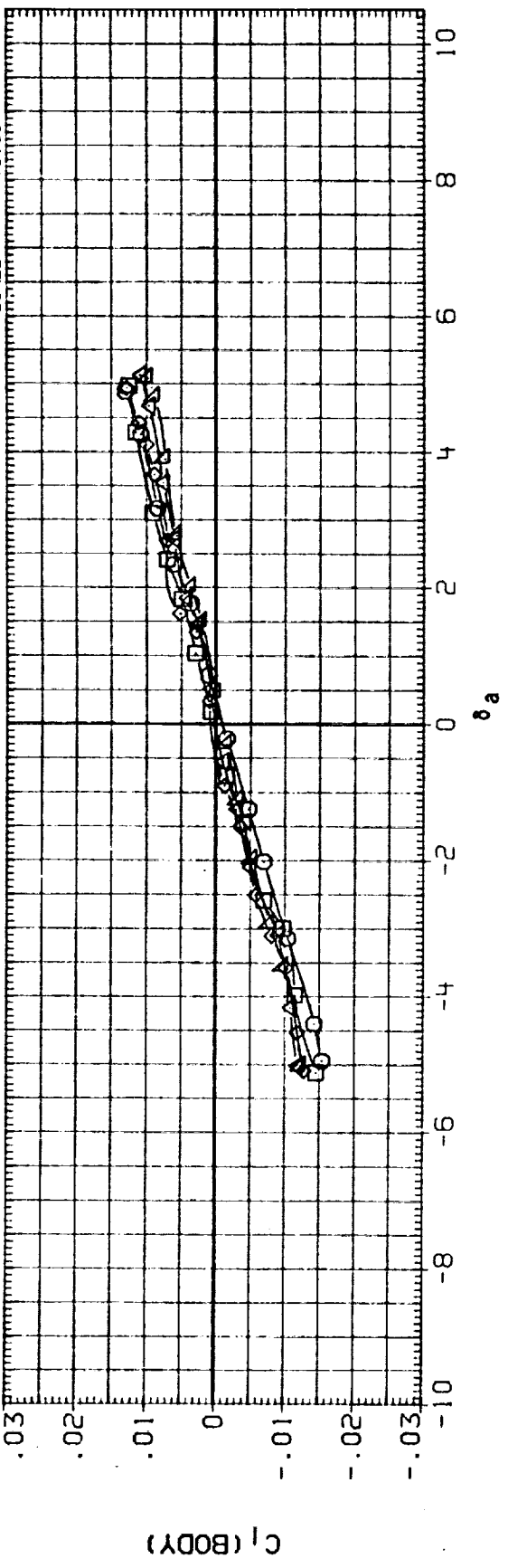


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = 1.20

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/VL | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|------------------------|
| (RUK130) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | .000 | .000 | 10.000 | SREF 2690.0000 SO. FT. |
| (RUK132) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 5.000 | .000 | 10.000 | LREF 474.8000 INCHES |
| (RUK134) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 10.000 | .000 | 10.000 | BREF 936.6800 INCHES |
| (RUK136) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 15.000 | .000 | 10.000 | XMRP 1076.7000 IN. XO |
| (RUK138) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 20.000 | .000 | 10.000 | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

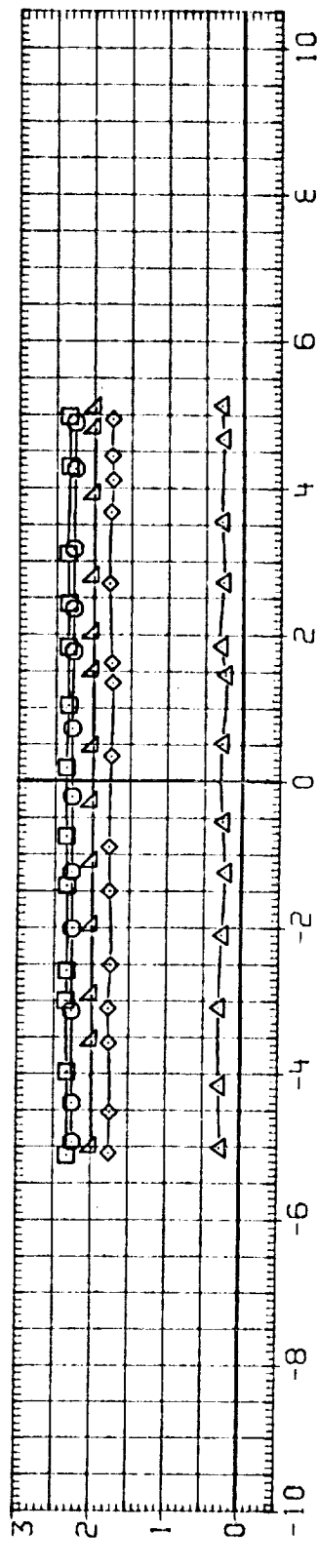
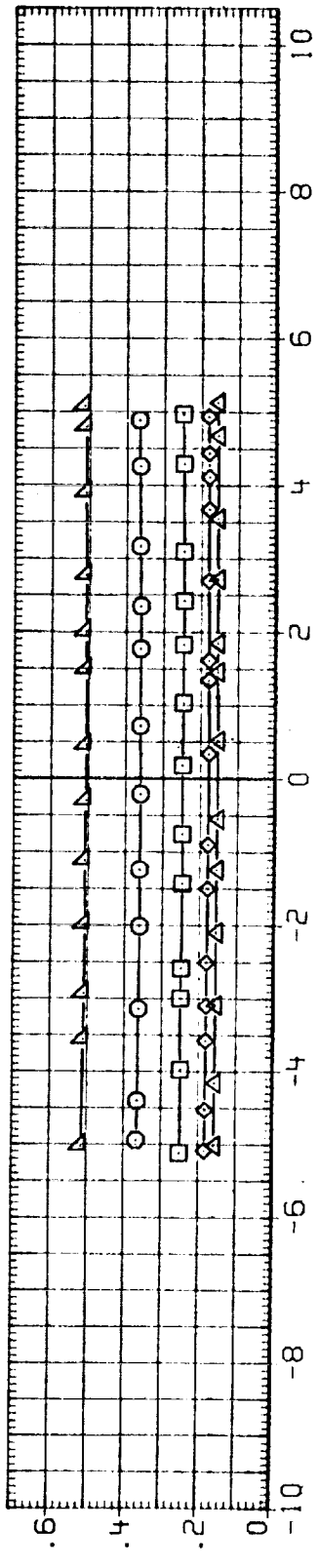
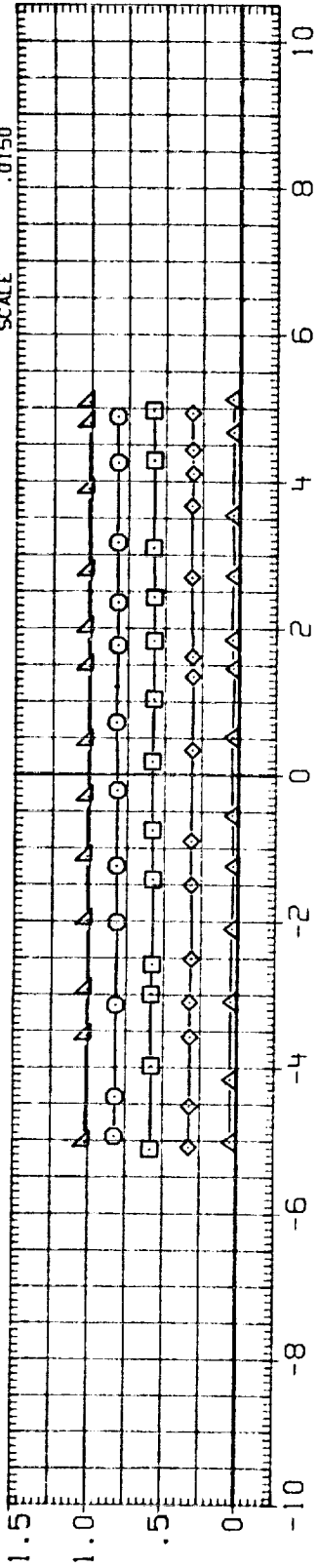


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = 1.20

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|-----------------|--|-------|--------|------|--------|-----------------------|
| (CUK130) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | .000 | .000 | 10.000 | SREF 2690.0000 SO.FT. |
| (CUK132) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 5.000 | .000 | 10.000 | LREF 474.8000 INCHES |
| (CUK134) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 10.000 | .000 | 10.000 | BREF 936.6800 INCHES |
| (CUK136) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 15.000 | .000 | 10.000 | XMRP 1076.7000 IN. X0 |
| (CUK138) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.000 | 20.000 | .000 | 10.000 | ZMRP 375.0000 IN. Y0 |

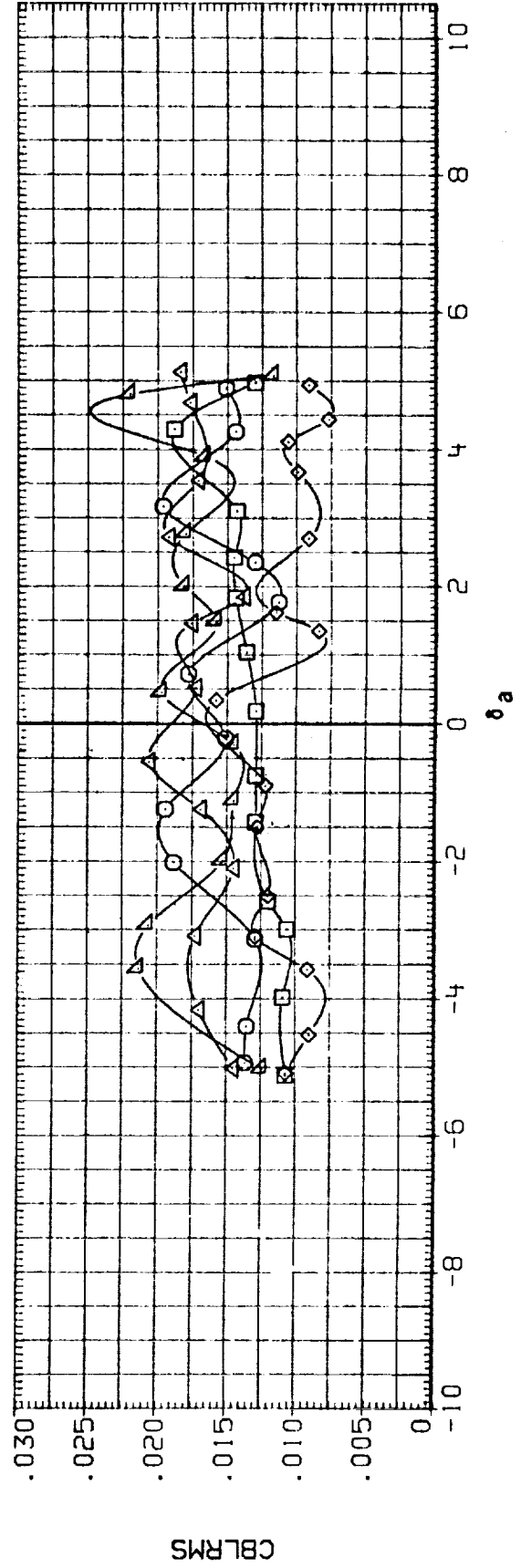
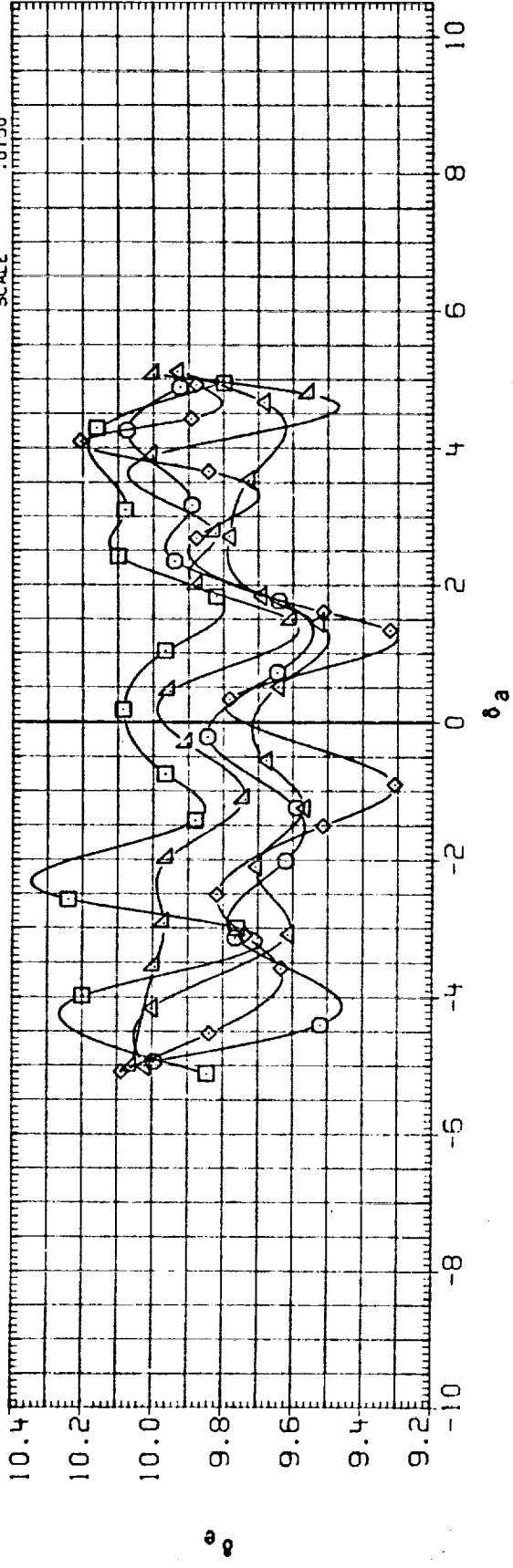


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) ○ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)
 (RUK033) □ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

ELEVON .000 AILERON .000 RN/L 4.500 BETA .000
 .000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

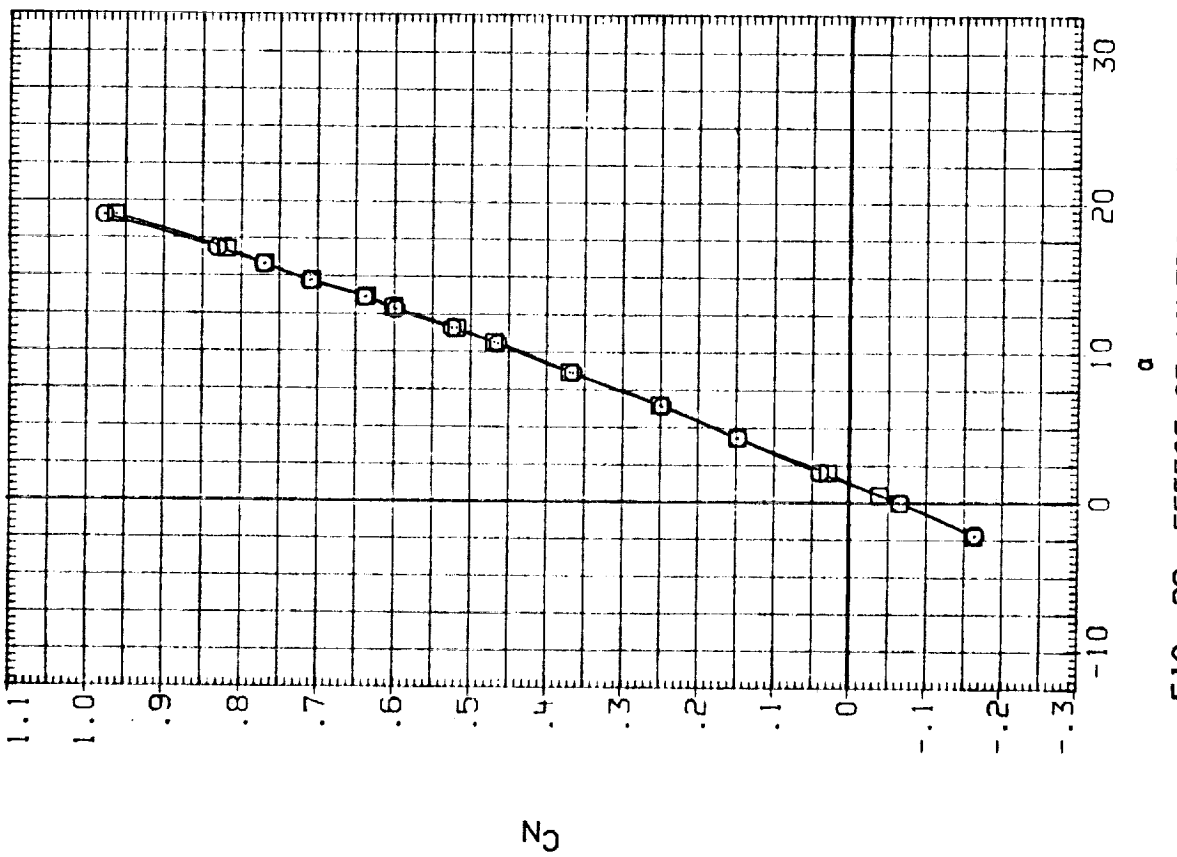
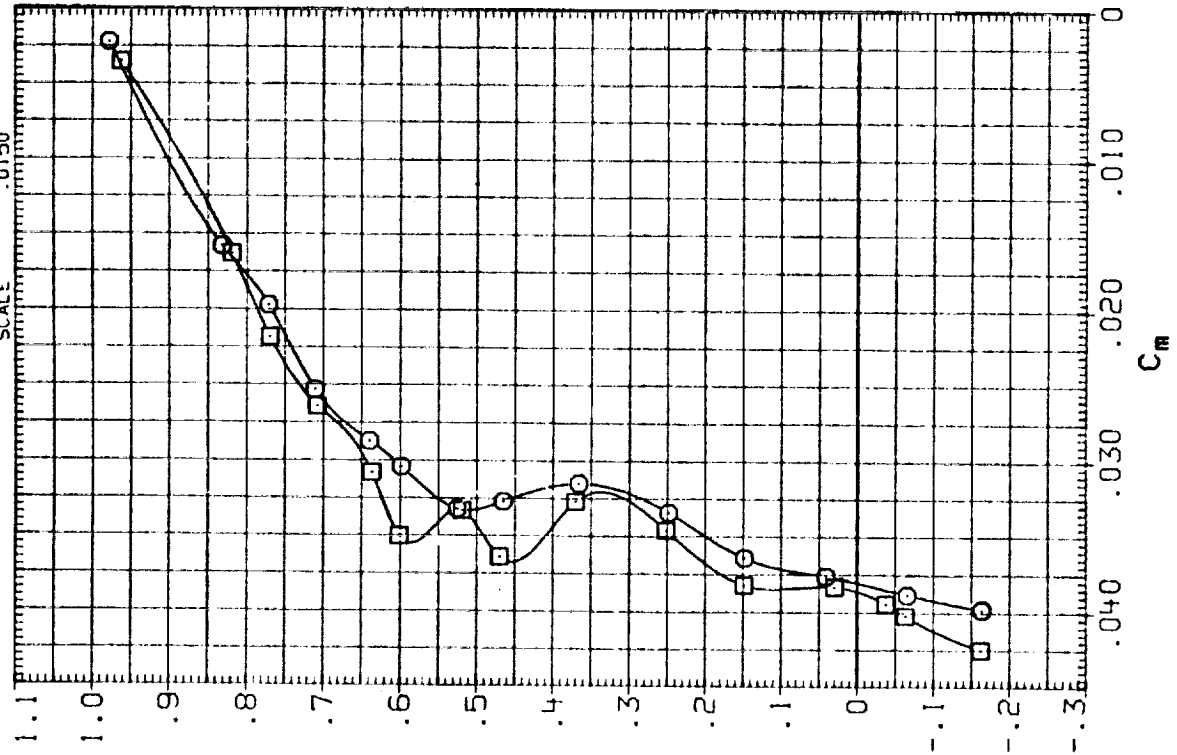


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) ○ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)
 (RUK033) □ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

ELEVON AILERON RW/L BETA

REFERENCE INFORMATION

| | | |
|-------|-----------|---------|
| SREF | 2690.0000 | SQ. FT. |
| LREF | 474.8000 | INCHES |
| BREF | 936.6800 | INCHES |
| XMRP | 1076.7000 | IN. XO |
| YMRP | .0000 | IN. YO |
| ZMRP | 375.0000 | IN. ZO |
| SCALE | .0150 | |

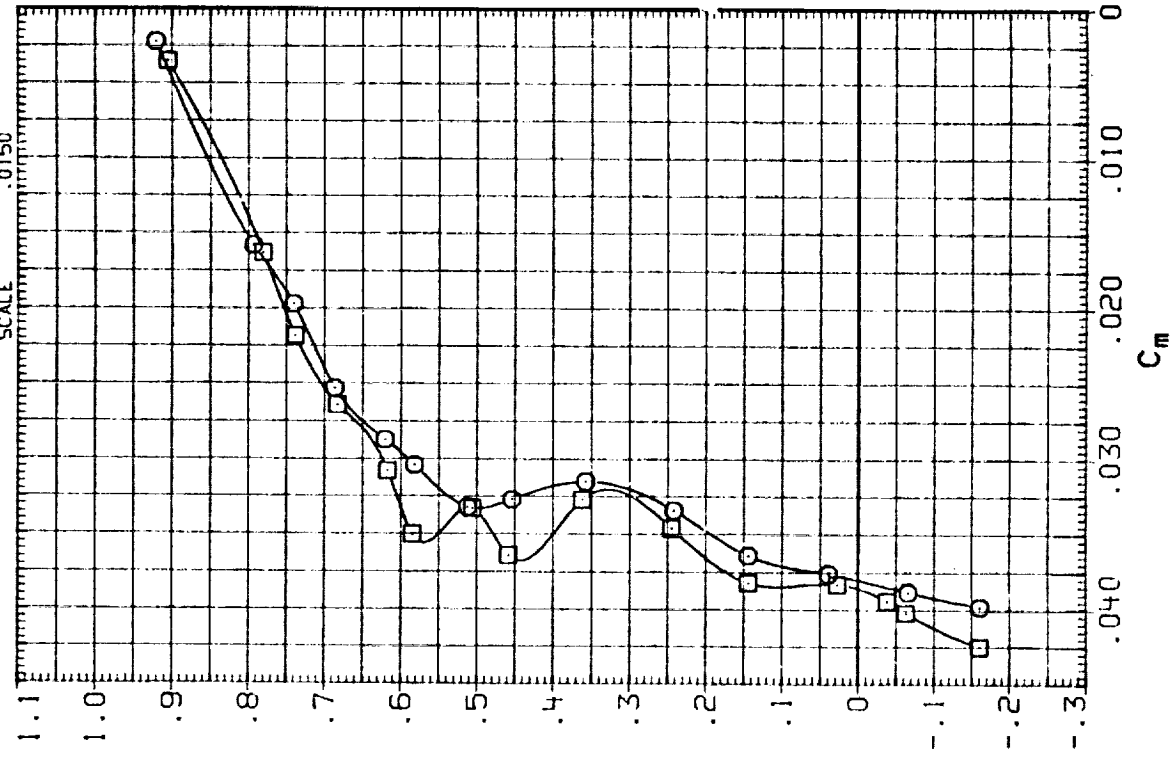
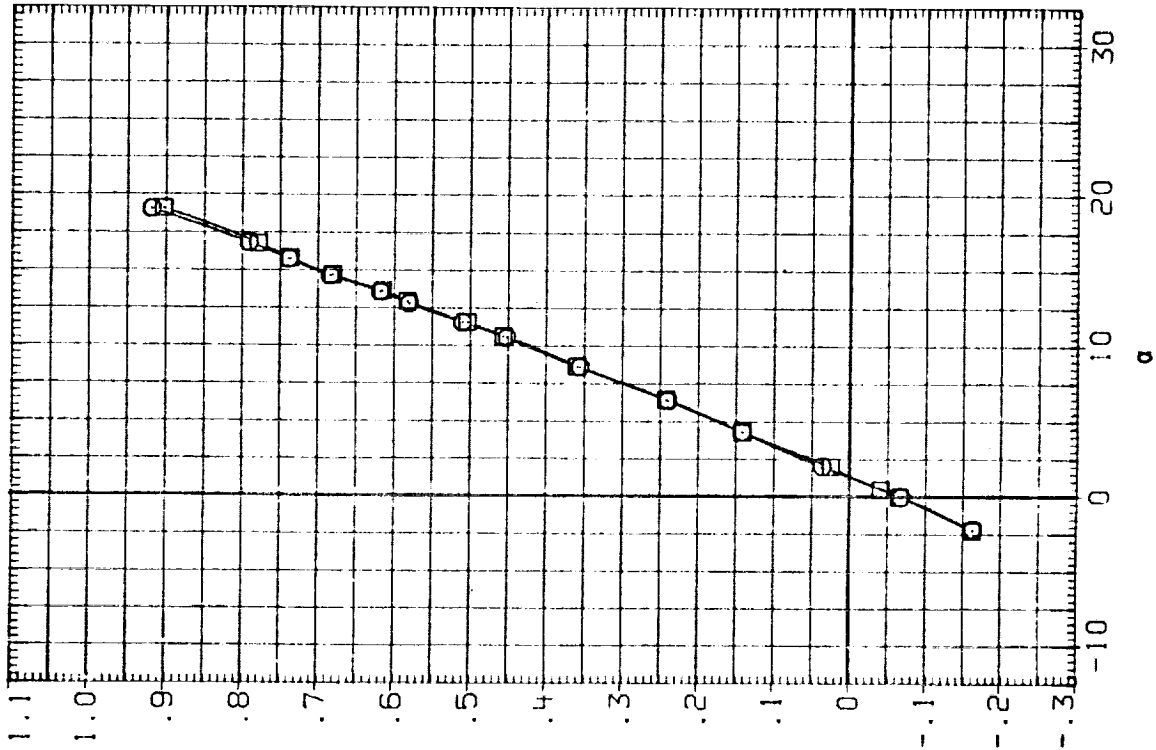


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .60

DATA SET SYMBOL (RUK0281) (RUK033)

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA
 .000 .000 4.500 .000
 .000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 474.8000 INCHES
 BRFP 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

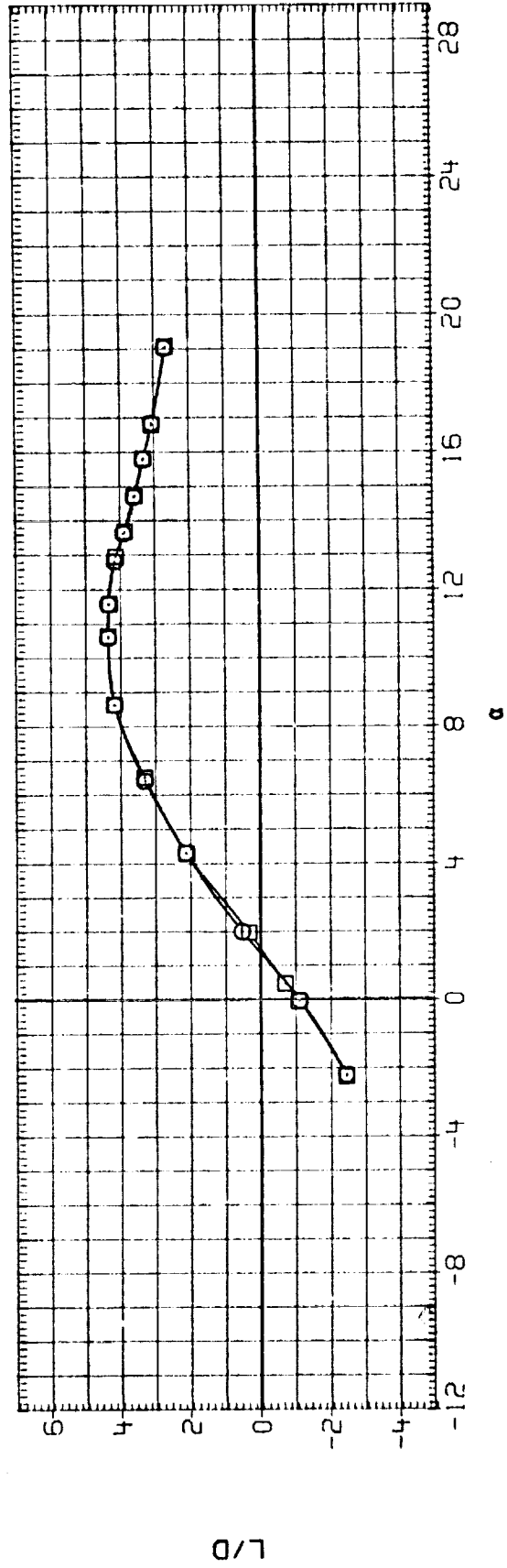
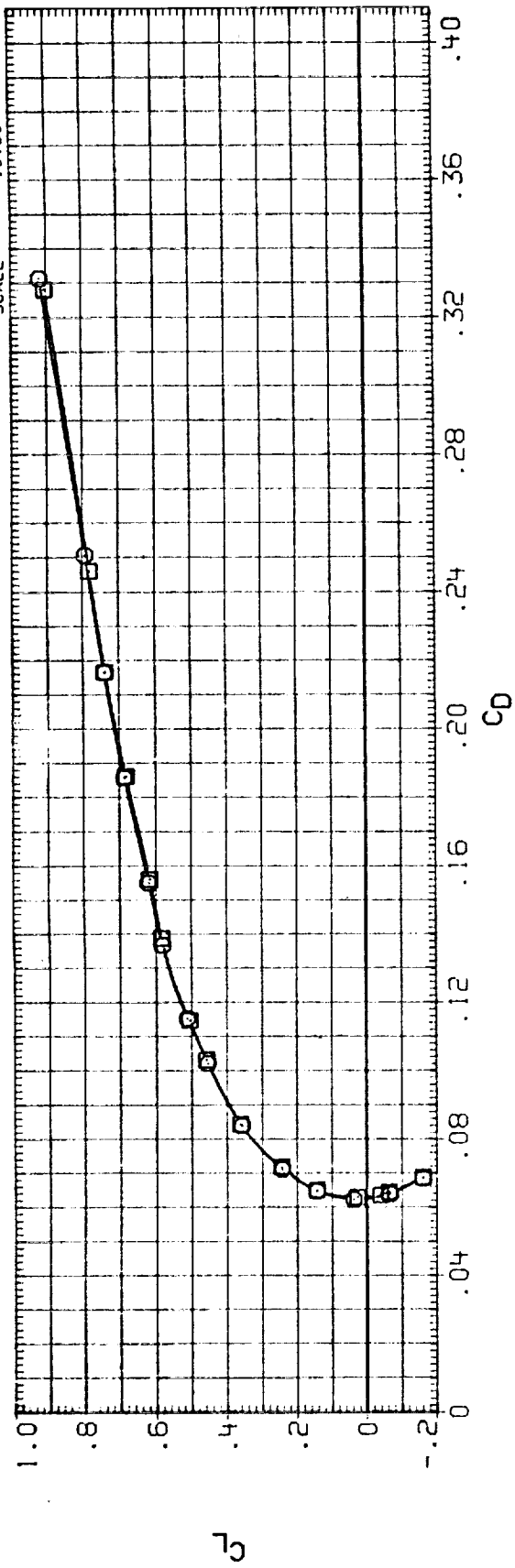


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 (RUK033) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

ELEVON AILERON RW/L BETA
 .000 .000 4.500 .000
 .000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

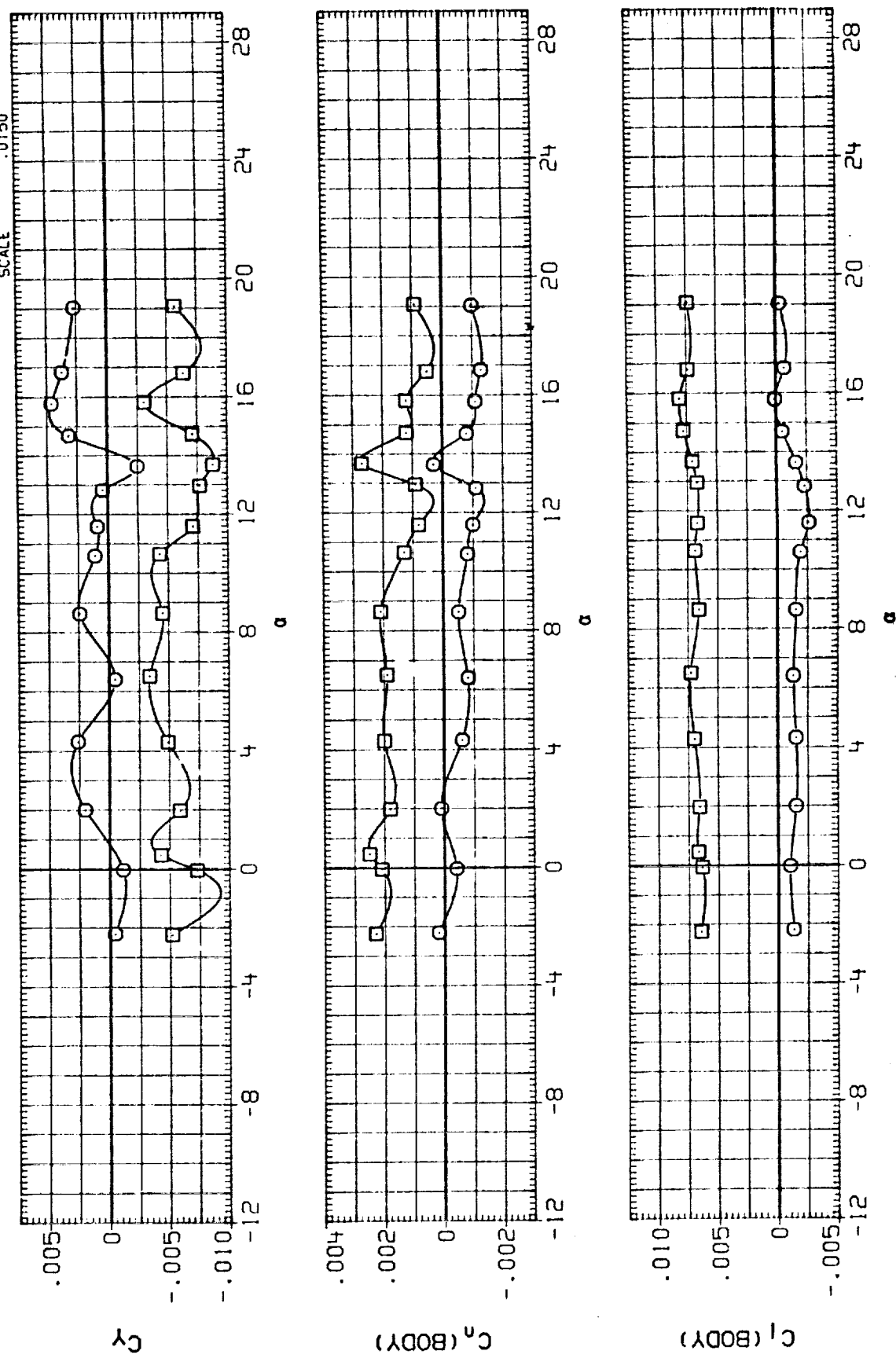


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK028) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(CUK033) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

ELEVON AILERON RN/L BETA

.000 .000 4.500 .000

.000 2.000 4.500 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.9000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

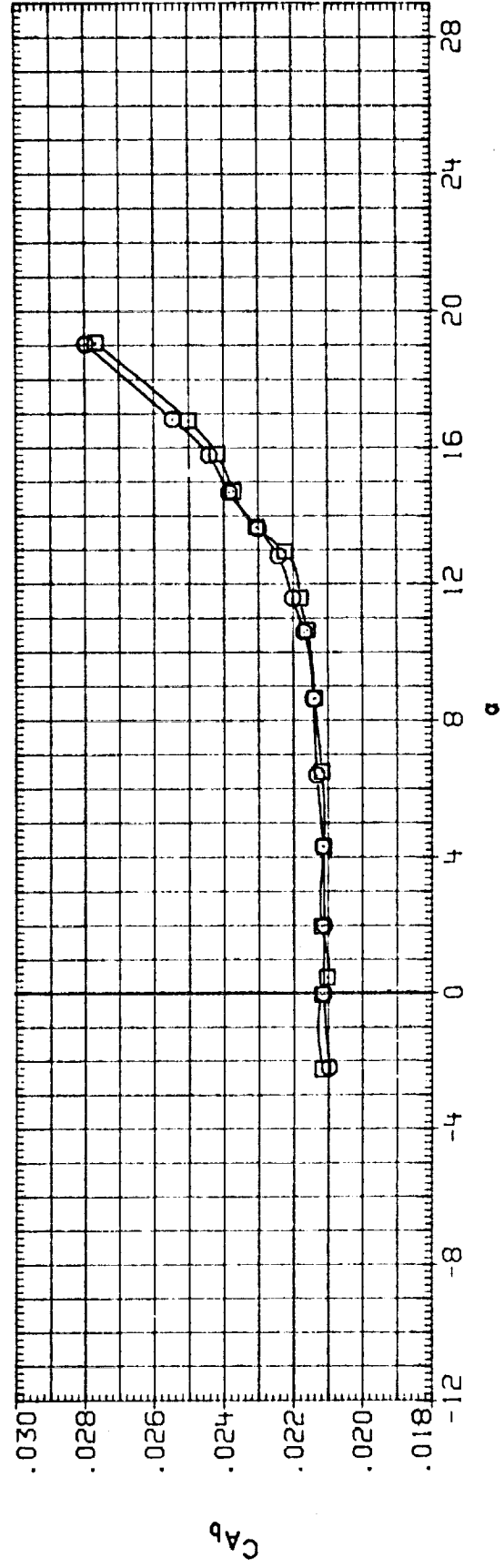
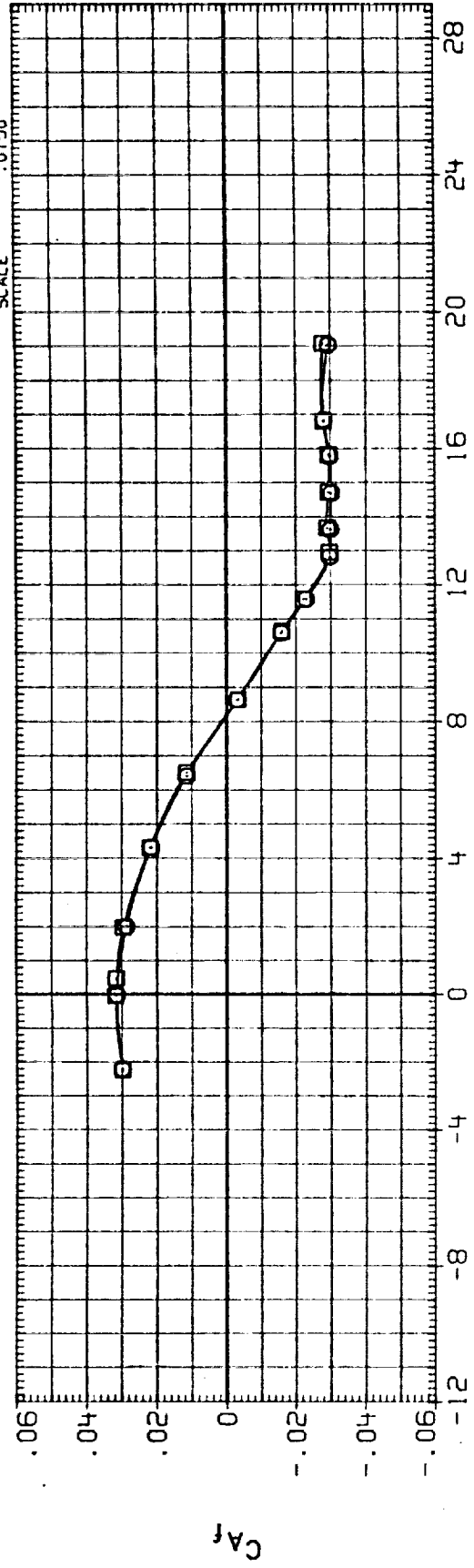


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUX028) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUX033) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA

.000 .000 4.500 .000

.000 2.000 4.500 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

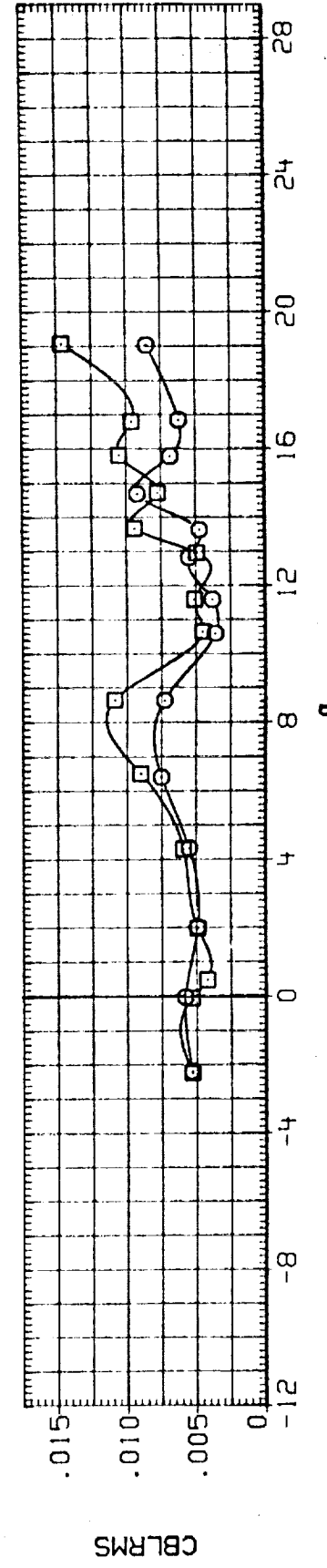
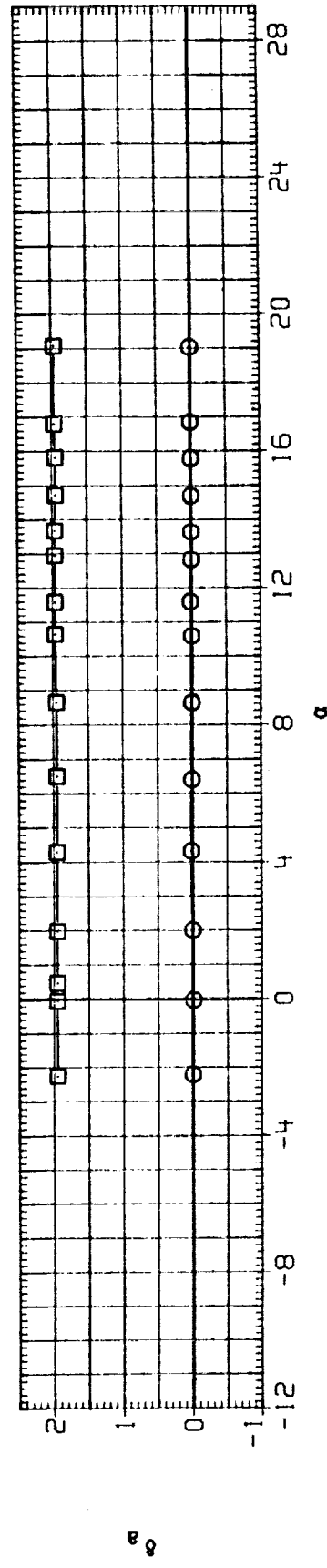
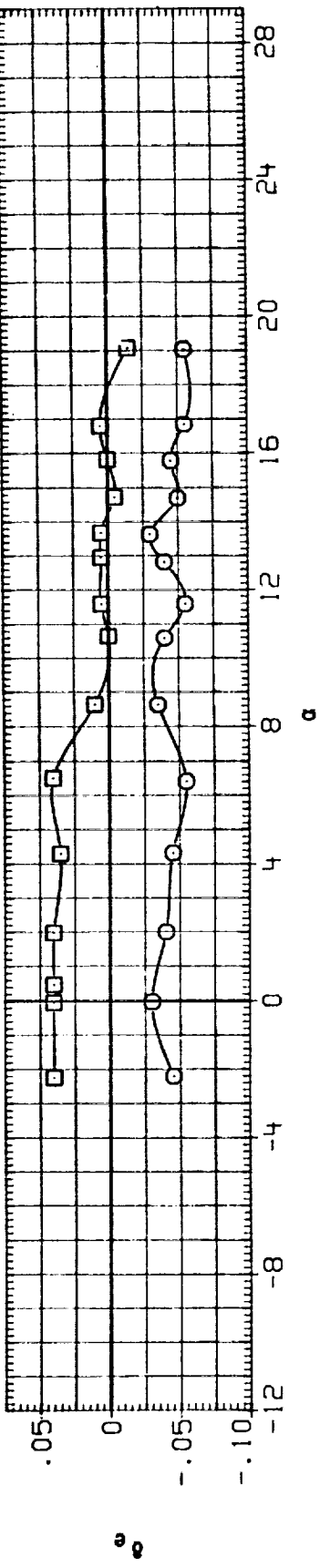


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK033) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA REFERENCE INFORMATION
 .000 .000 4.500 .000 SREF 2690.0000 SQ.FT.
 .000 2.000 4.500 .000 LREF 474.8000 INCHES
 .000 .000 .000 .000 BREF 936.6800 INCHES
 .000 .000 .000 .000 XMRP 1076.7000 IN. XO
 .000 .000 .000 .000 YMRP .0000 IN. YO
 .000 .000 .000 .000 ZMRP 375.0000 IN. ZO
 .000 .000 .000 .000 SCALE .0150

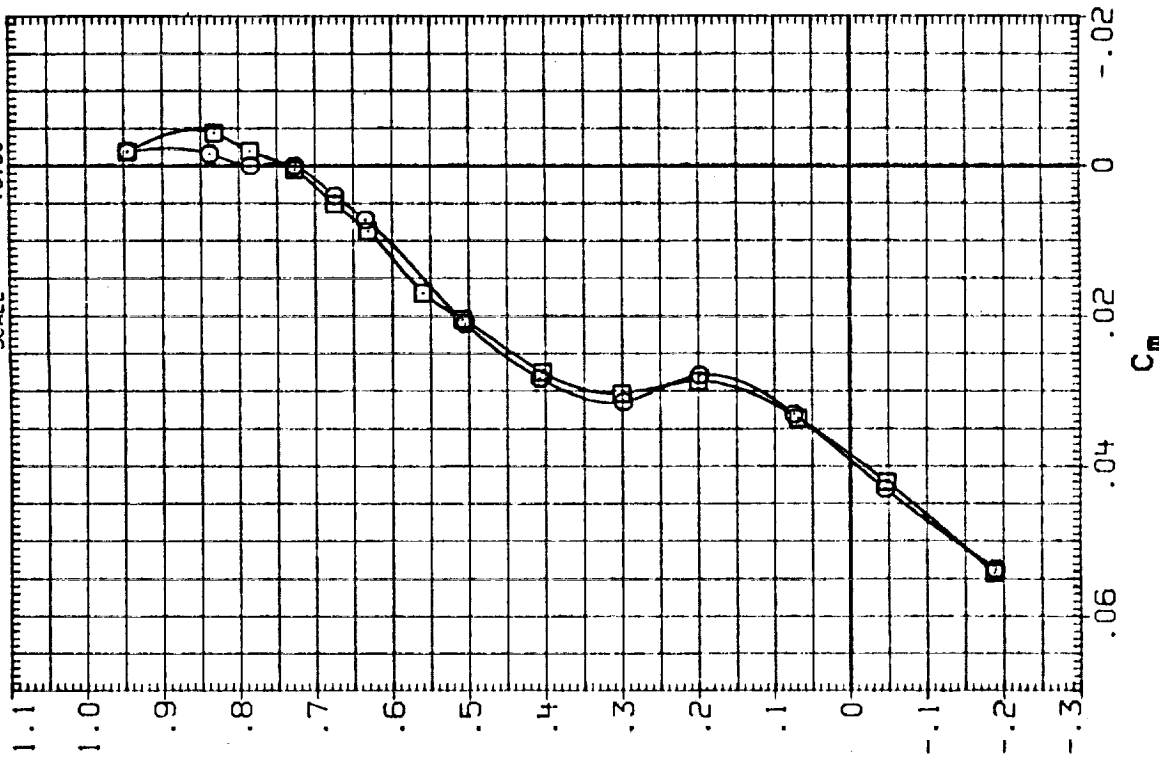
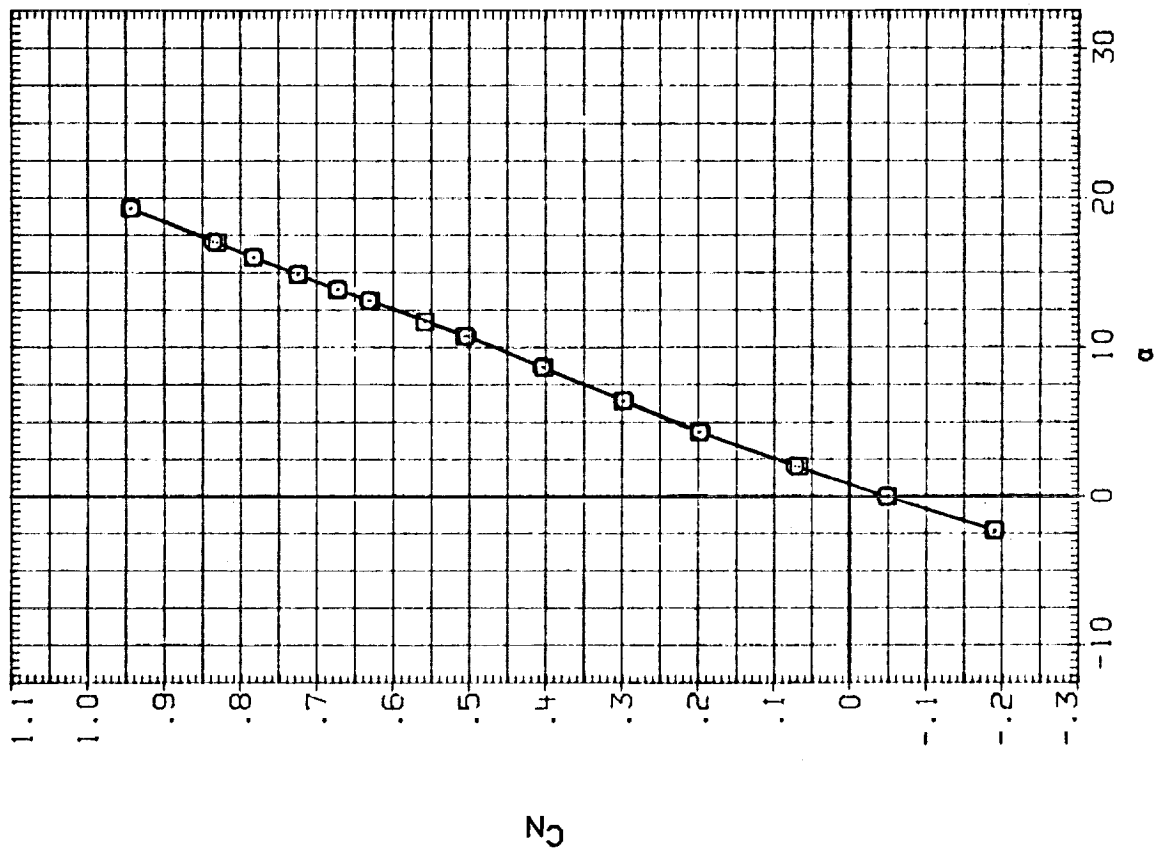


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 (RUK033) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

ELEVON ALLRON RN/L BETA
 .000 .000 4.500 .000
 .000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

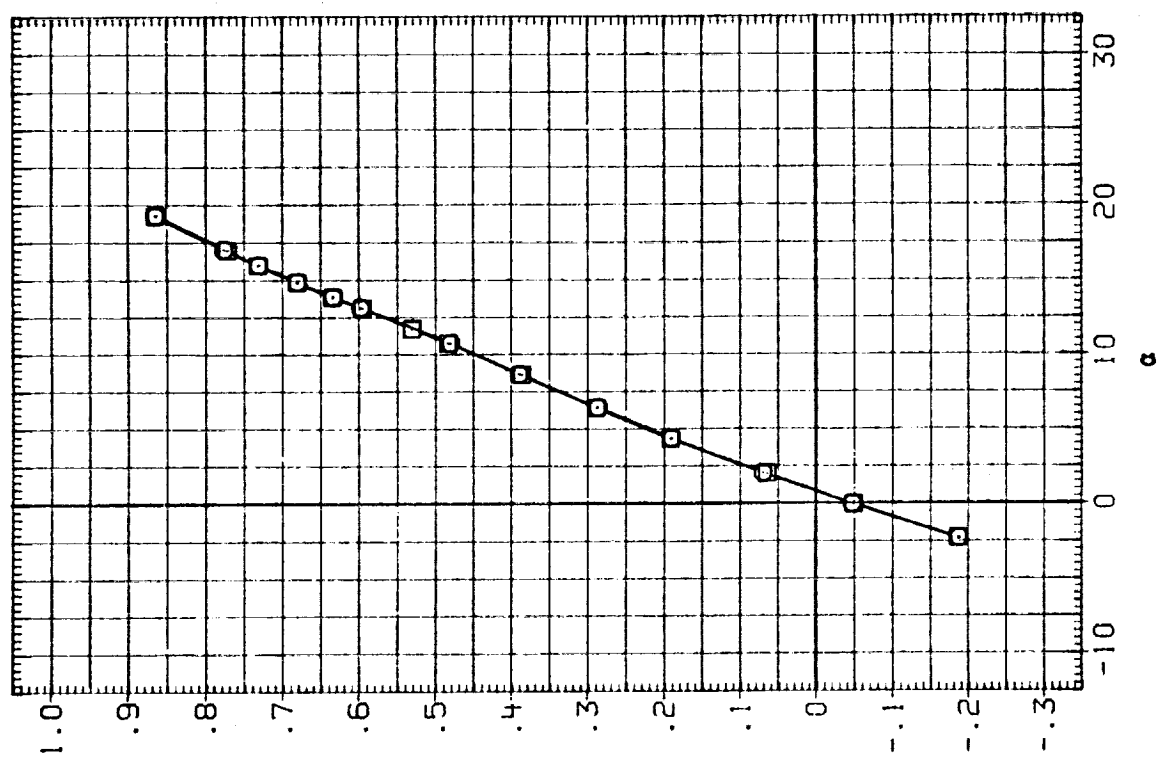


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .90

| | | | | | | |
|-----------------|--|--------|---------|-------|------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | SREF 2690.0000 SO. FT. |
| (RUK033) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 2.000 | 4.500 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

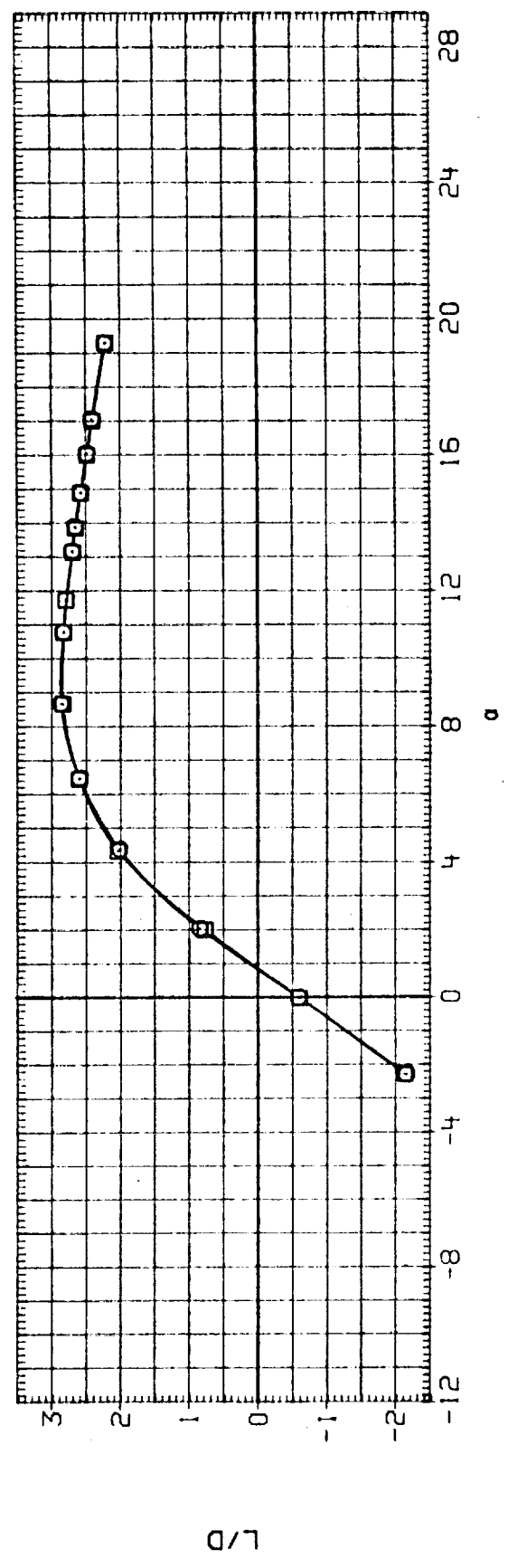
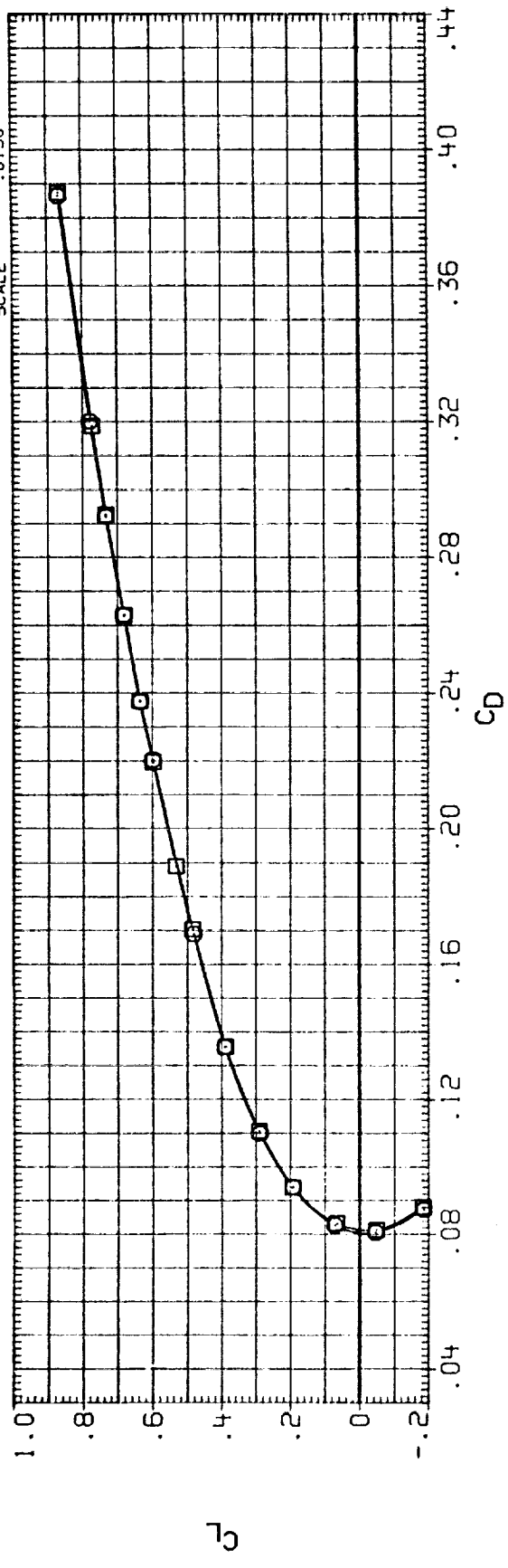


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .90

DATA SET SYMBOL (RUK028) (RUK033)

CONFIGURATION DESCRIPTION LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON ALLIRON RN/L BETA

.000 .000 .000 .000

2.000 4.500 .000 .000

REFERENCE INFORMATION SREF 2690.0000 SO. FT. LREF 474.8000 INCHES BREF 936.6800 INCHES XMRP 1076.7000 IN. XO YMRP .0000 IN. YO ZMRP 375.0000 IN. ZO SCALE .0150

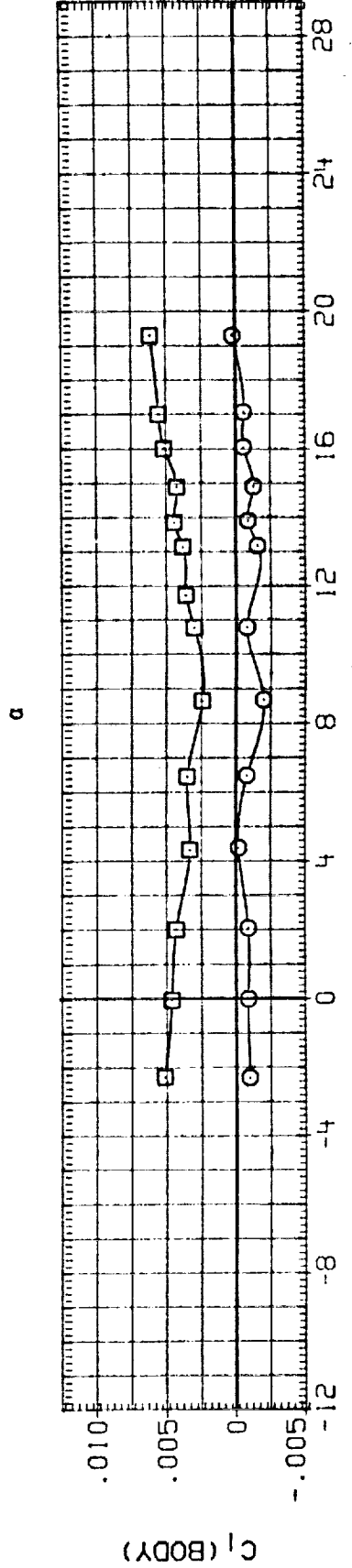
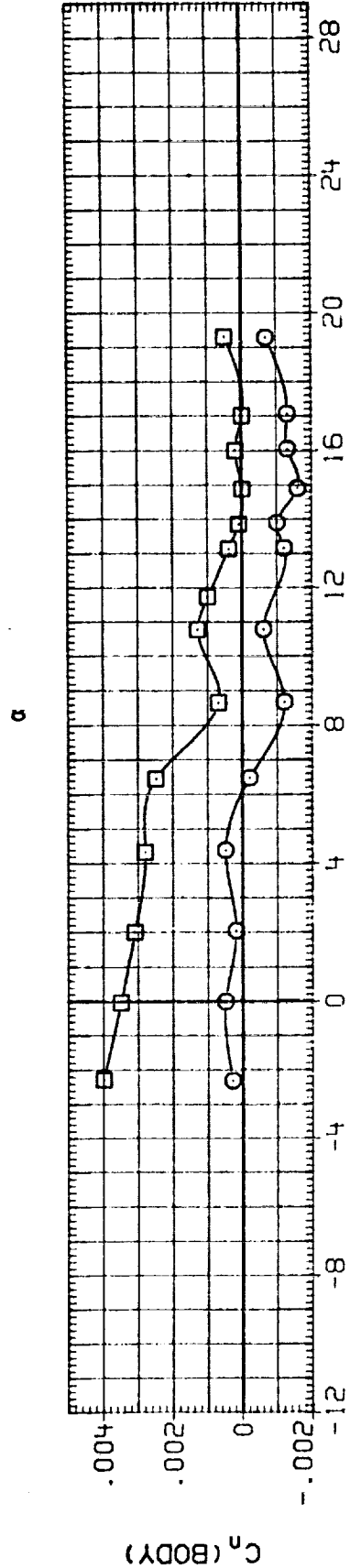
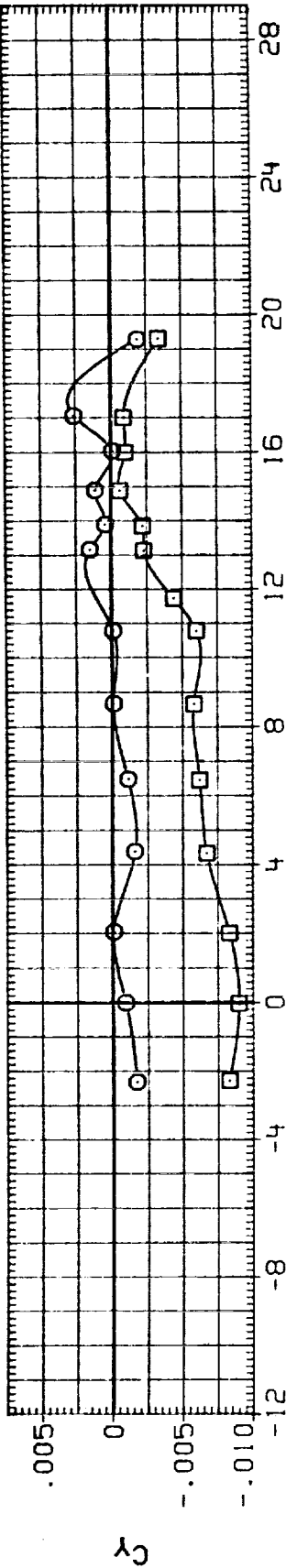


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .90

| | | | | | | |
|-----------------|--|--------|---------|-------|------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
| (CUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | SREF 2690.0000 SO.FT. |
| (CUK033) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 2.000 | 4.500 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

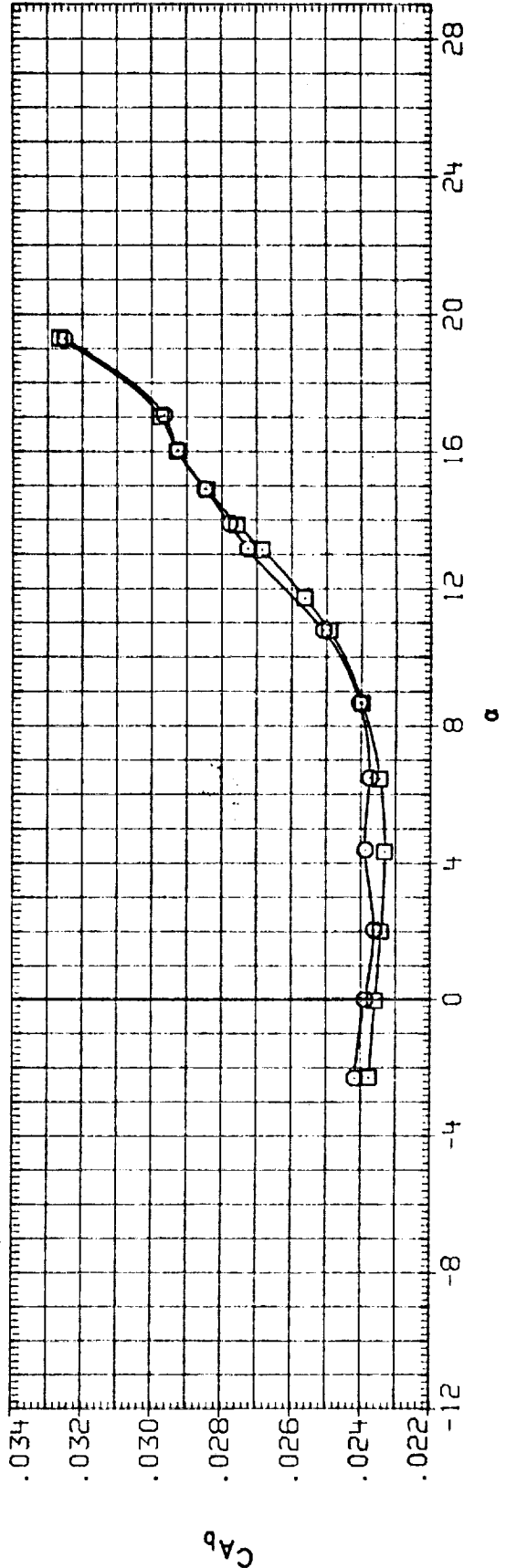
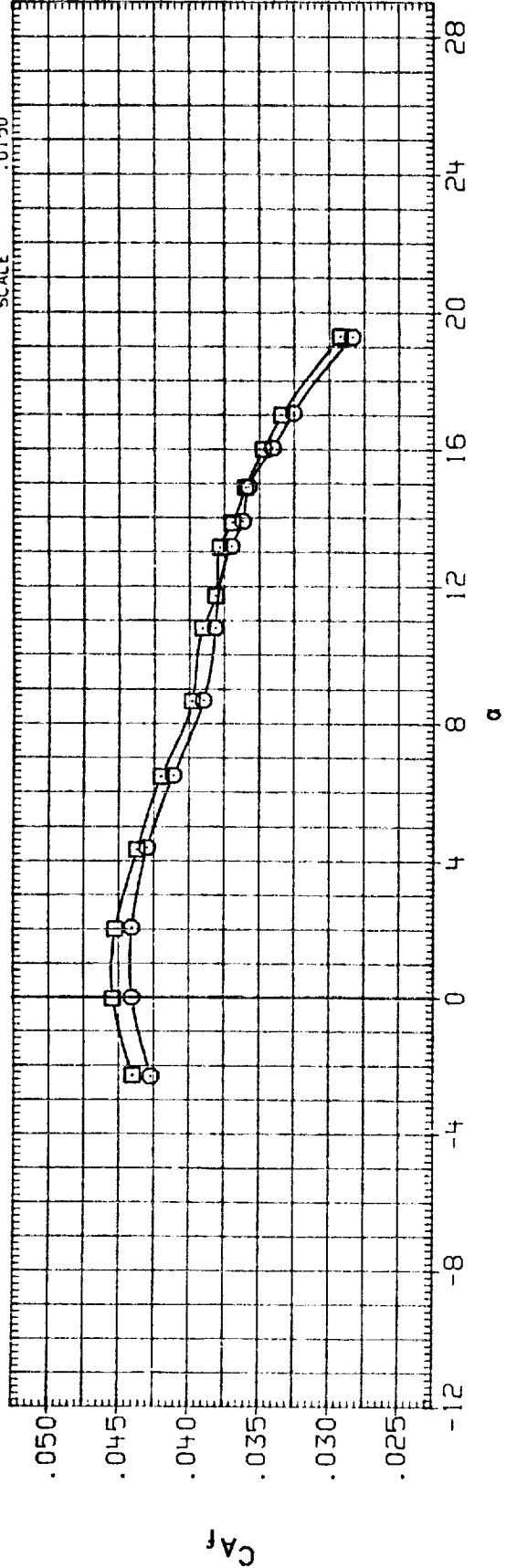


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .90

DATA SET SYMBOL
 (CUK0281) \square
 (CUK0331) \circ

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON ALLIRON RV/L BETA
 .000 .000 4.500 .000
 .000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

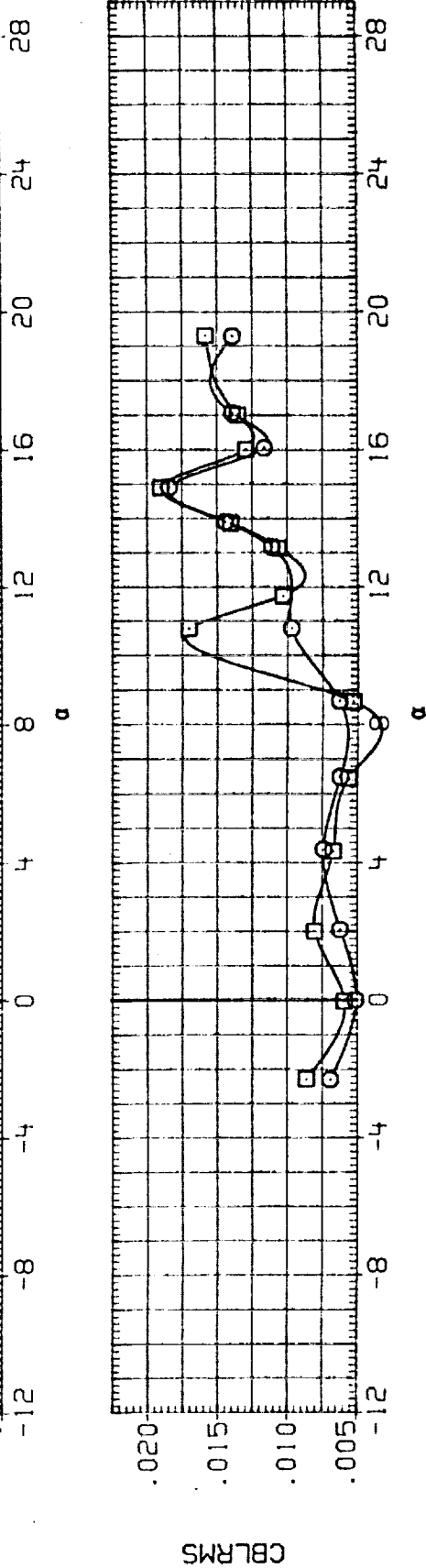
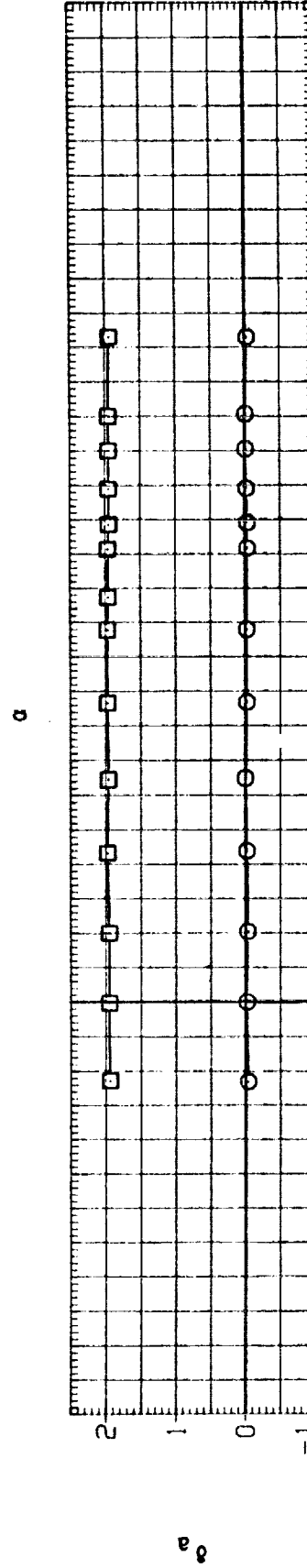
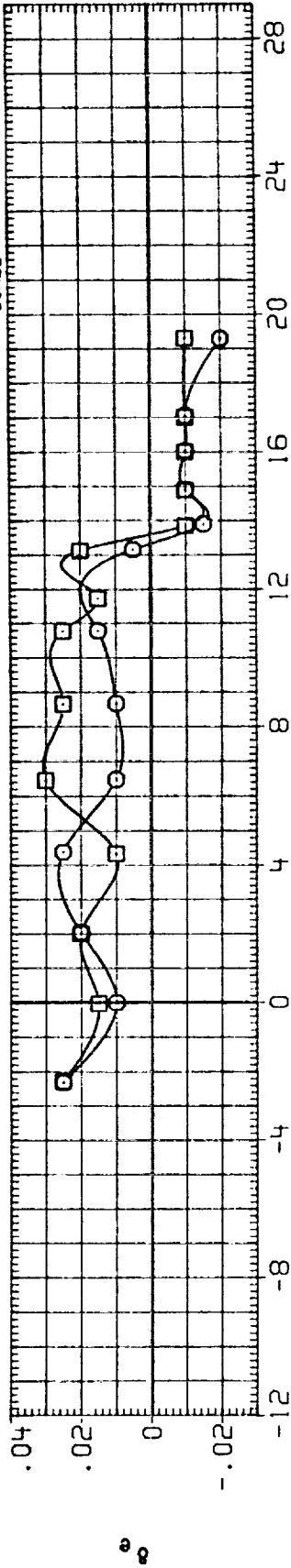


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .90

DATA SET SYMBOL (RUK028) (RUK033)

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

ELEVON .000 .000

AILERON .000 2.000

RN/L 4.500 4.500

BETA .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0

SCALE .0150

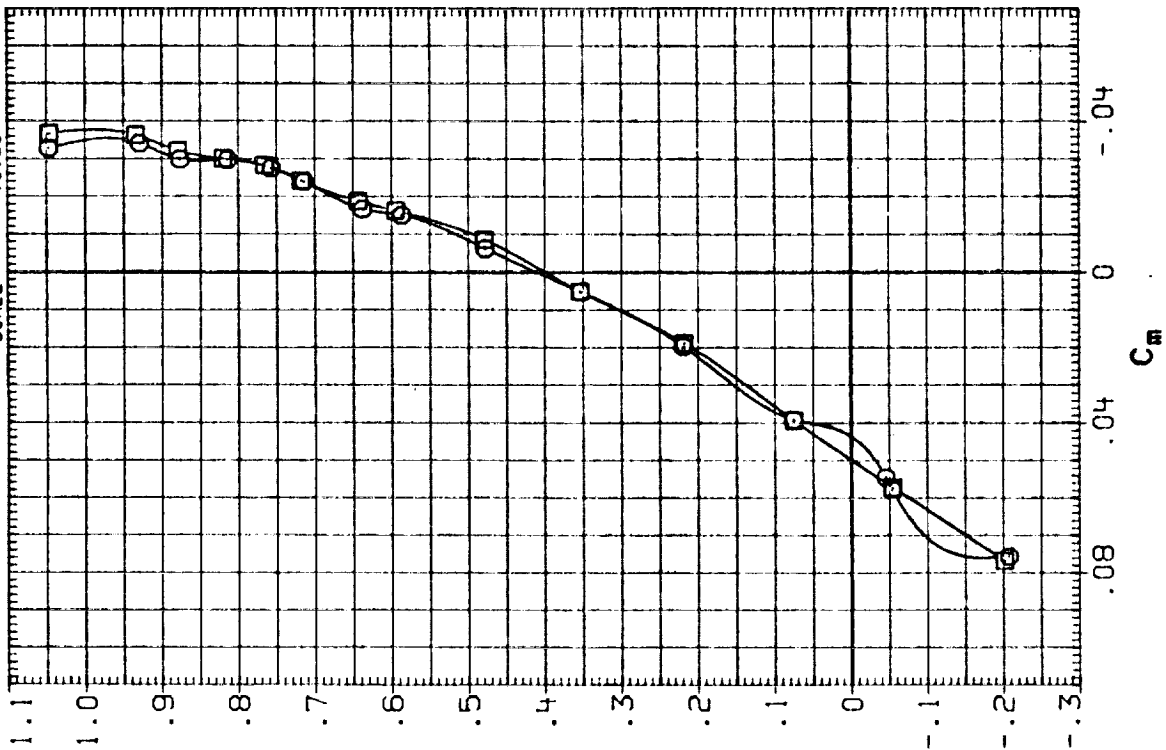
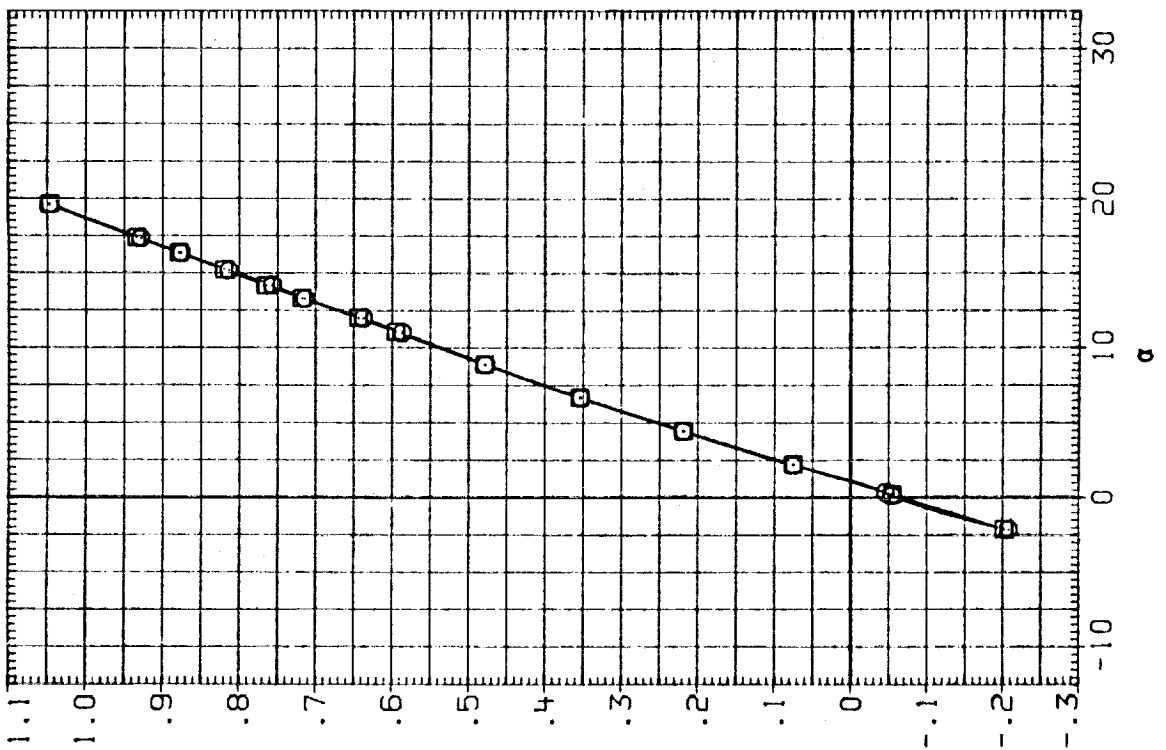


FIG. 28 EFFECT OF AILERON, ELEVON = 0

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK033) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA
 .000 .000
 2.000 4.500
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

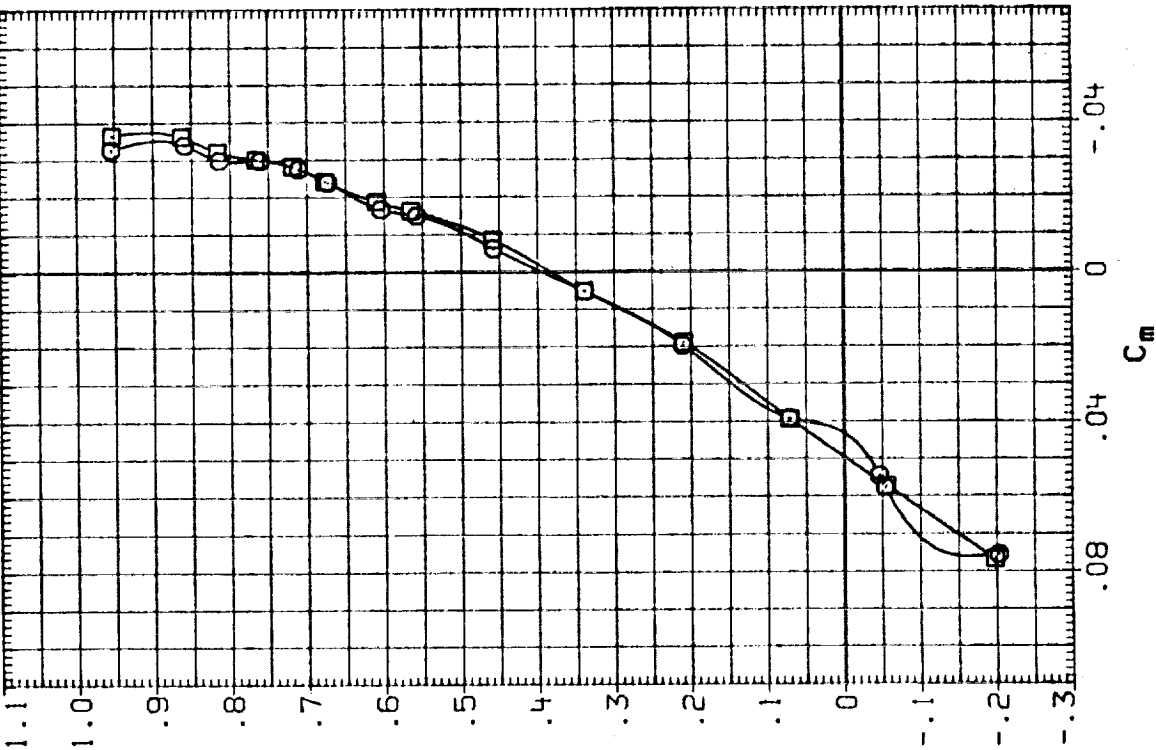
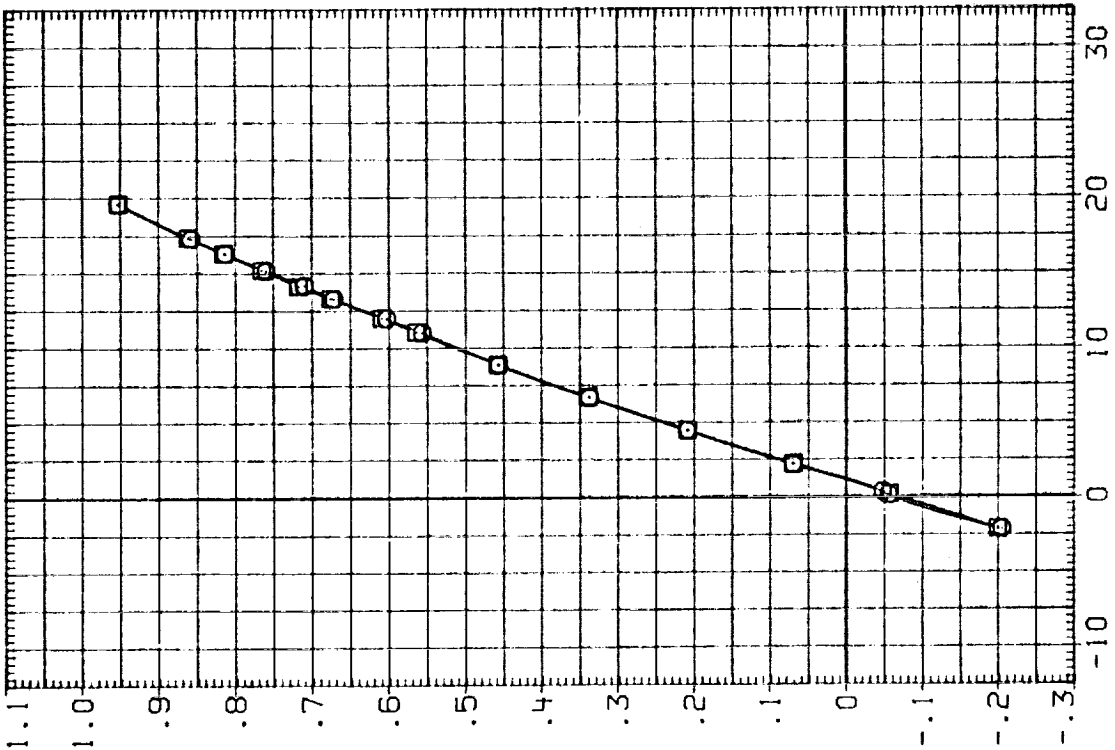


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK028) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK033) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA

.000 .000 4.500 .000

.000 2.000 4.500 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

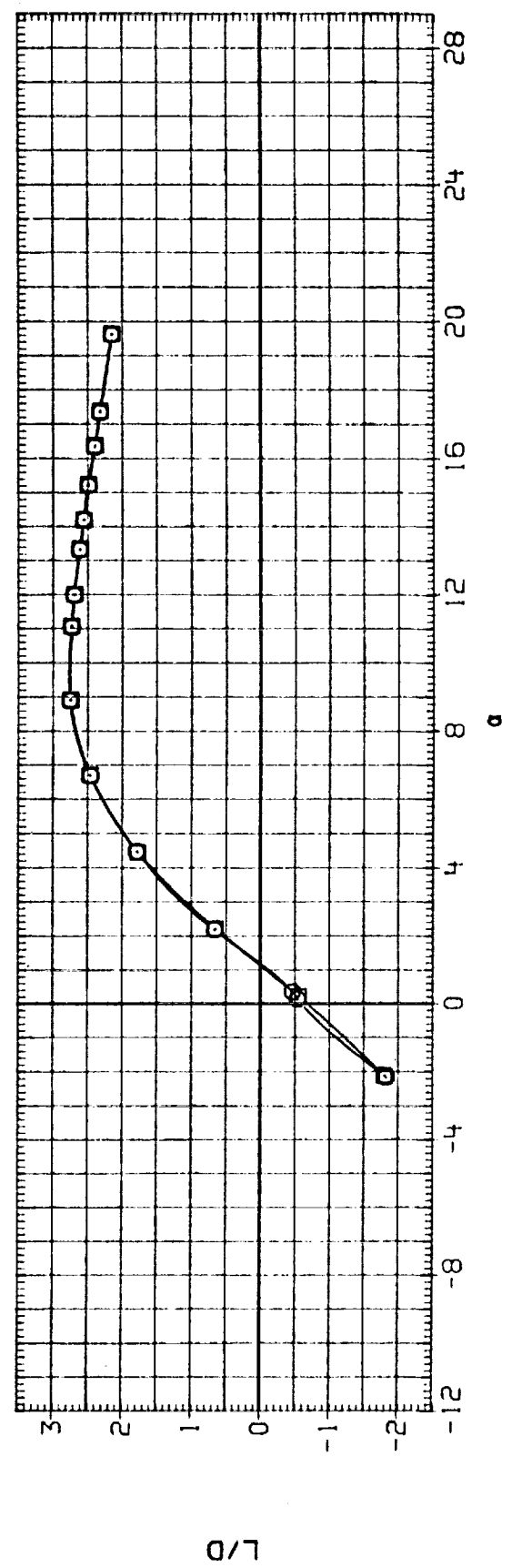
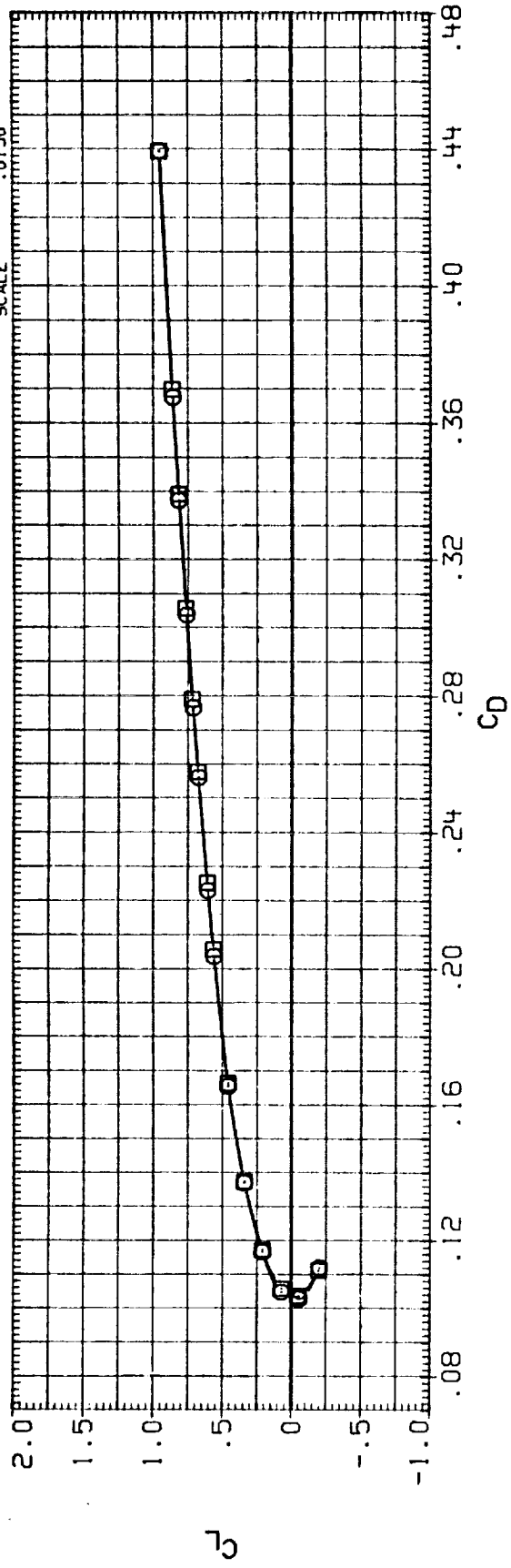


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK033) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RV/L BETA

.000 .000 4.500 .000

.000 2.000 4.500 .000

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

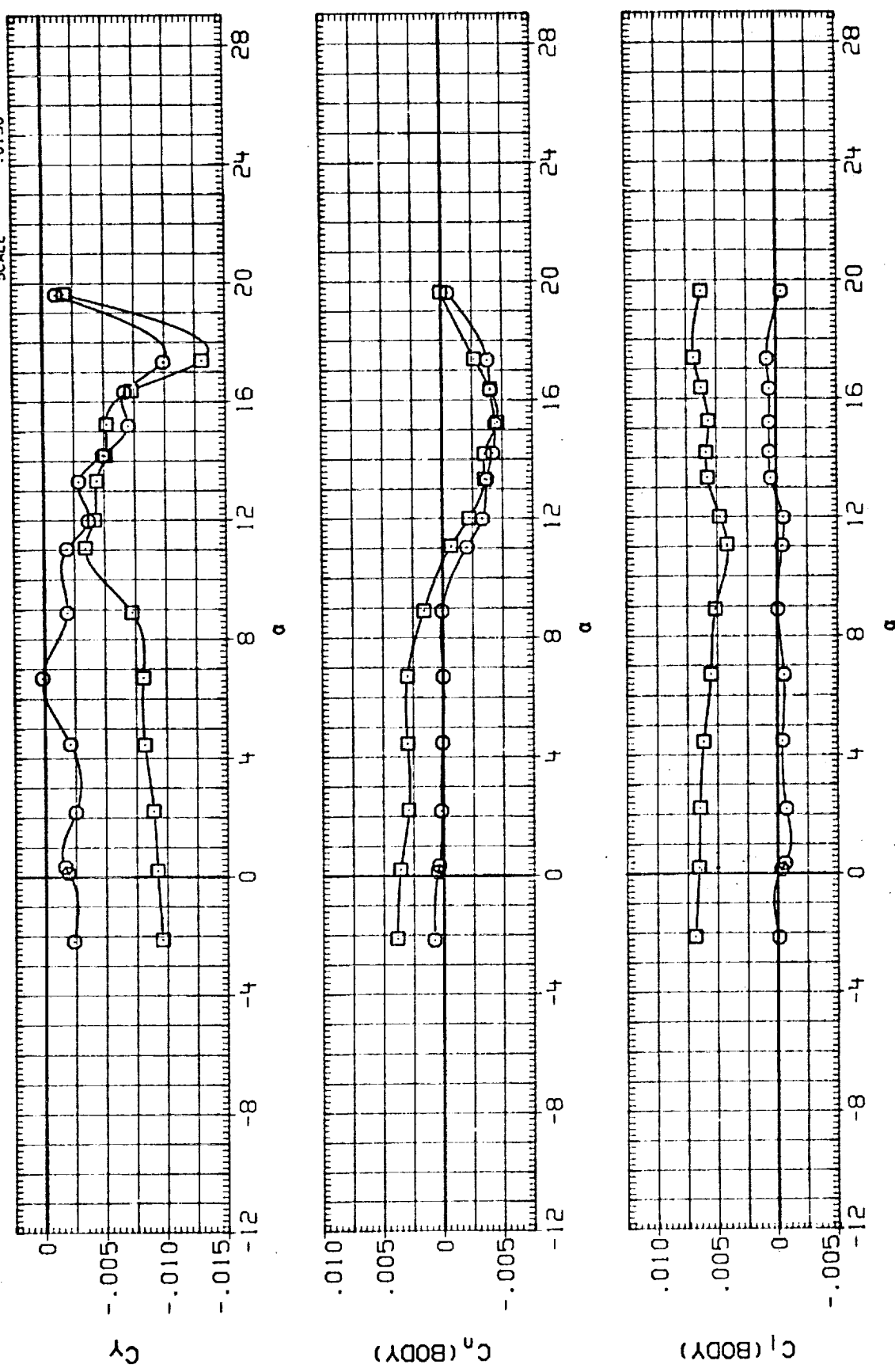


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .95

| | | | | | | |
|-----------------|--|--------|---------|-------|------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
| (CUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK033) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 2.000 | 4.500 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

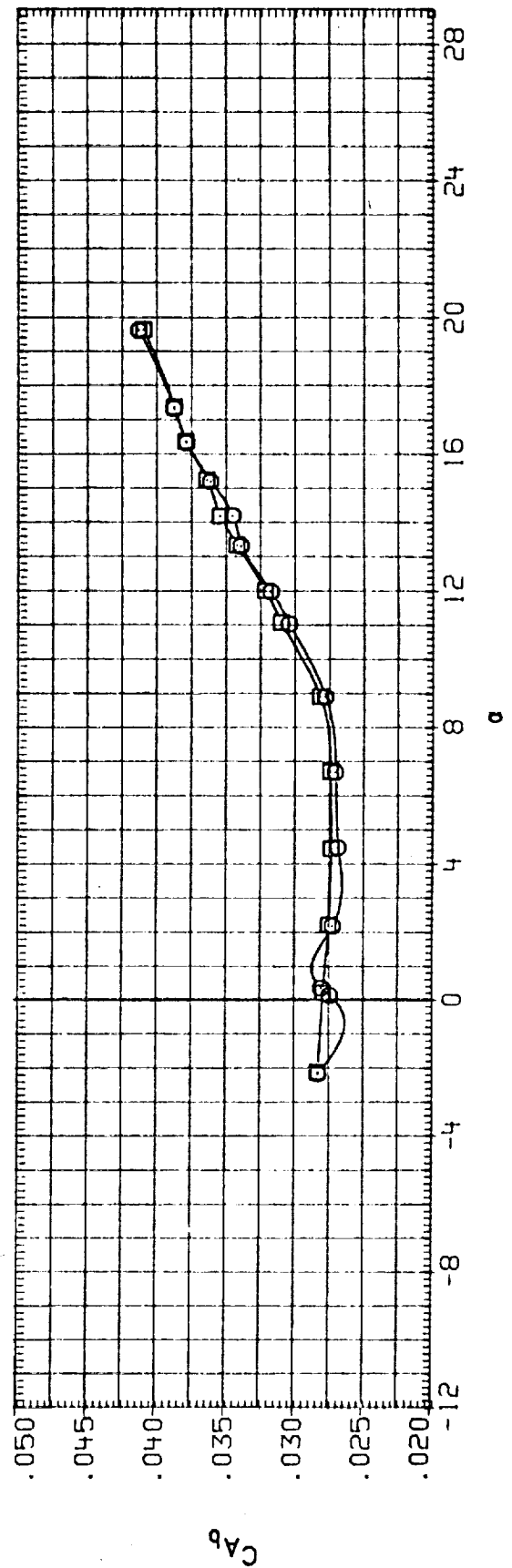
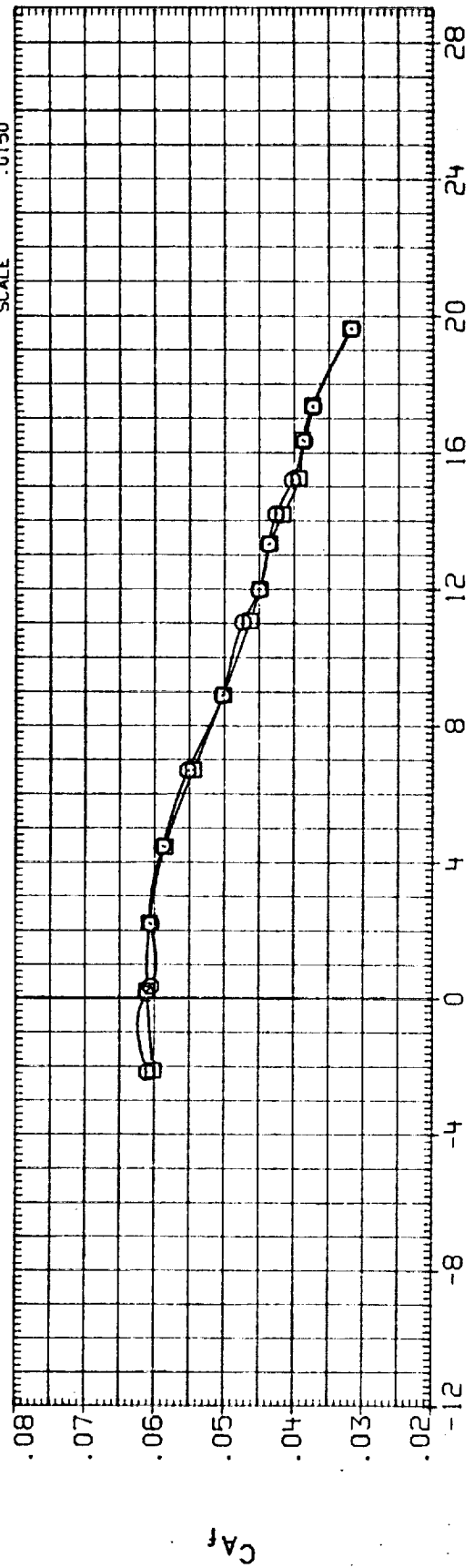


FIG. 28 EFFECT OF AILERON, ELEVON = 0

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK0281) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK0331) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RV/L BETA

.000 .000 .000

.000 2.000 4.500

.000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

UAREF 936.6800 INCHES

YMRP 1076.7000 IN. XO

ZMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

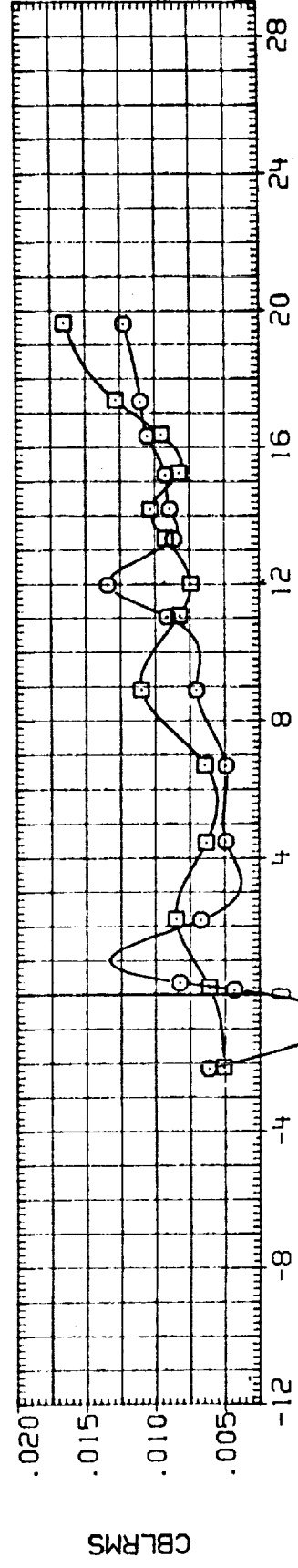
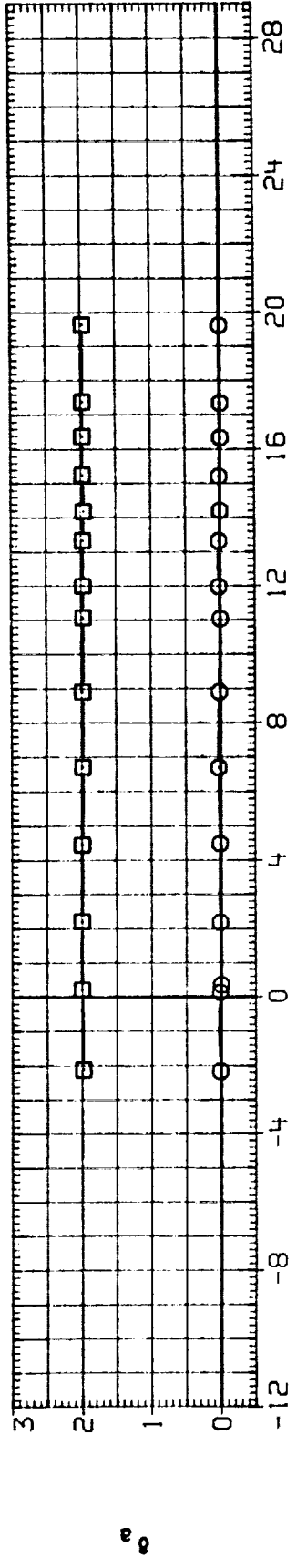
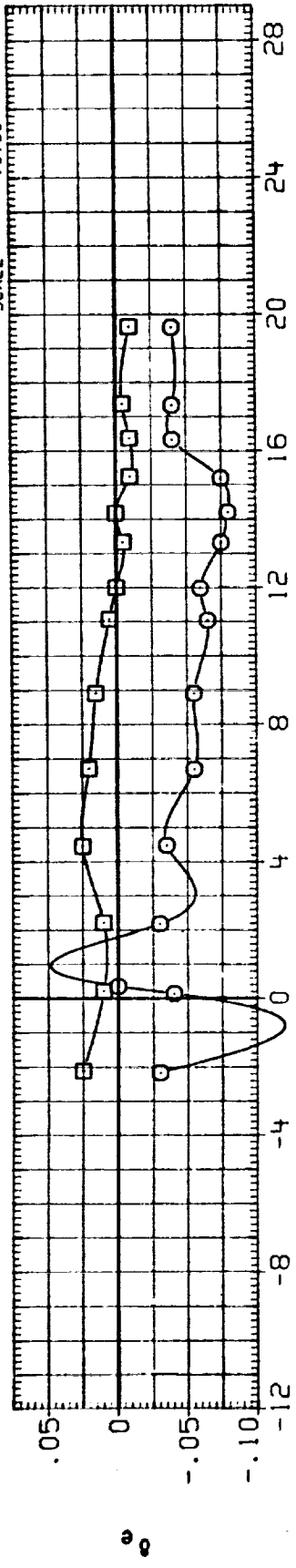


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 (RUK033) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

ELEVON AILERON RV/L BETA REFERENCE INFORMATION
 .000 .000 .000 SREF 2690.0000 50.FT.
 .000 2.000 .000 LREF 474.8000 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

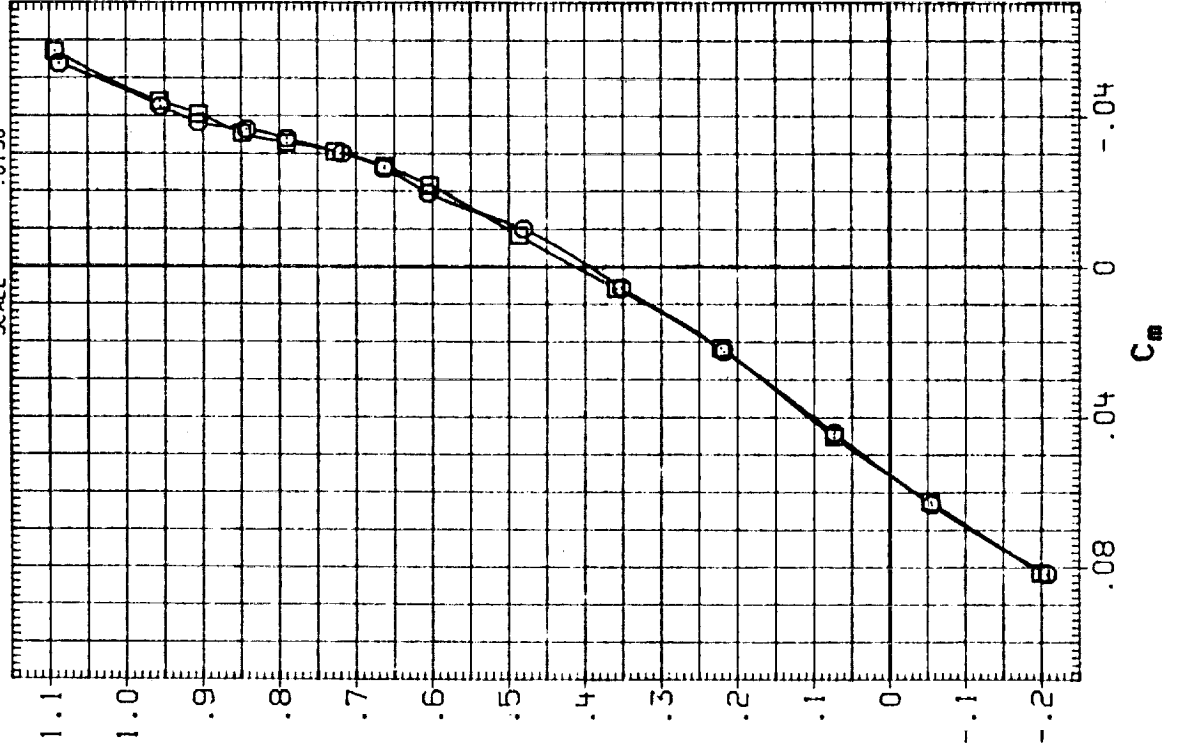
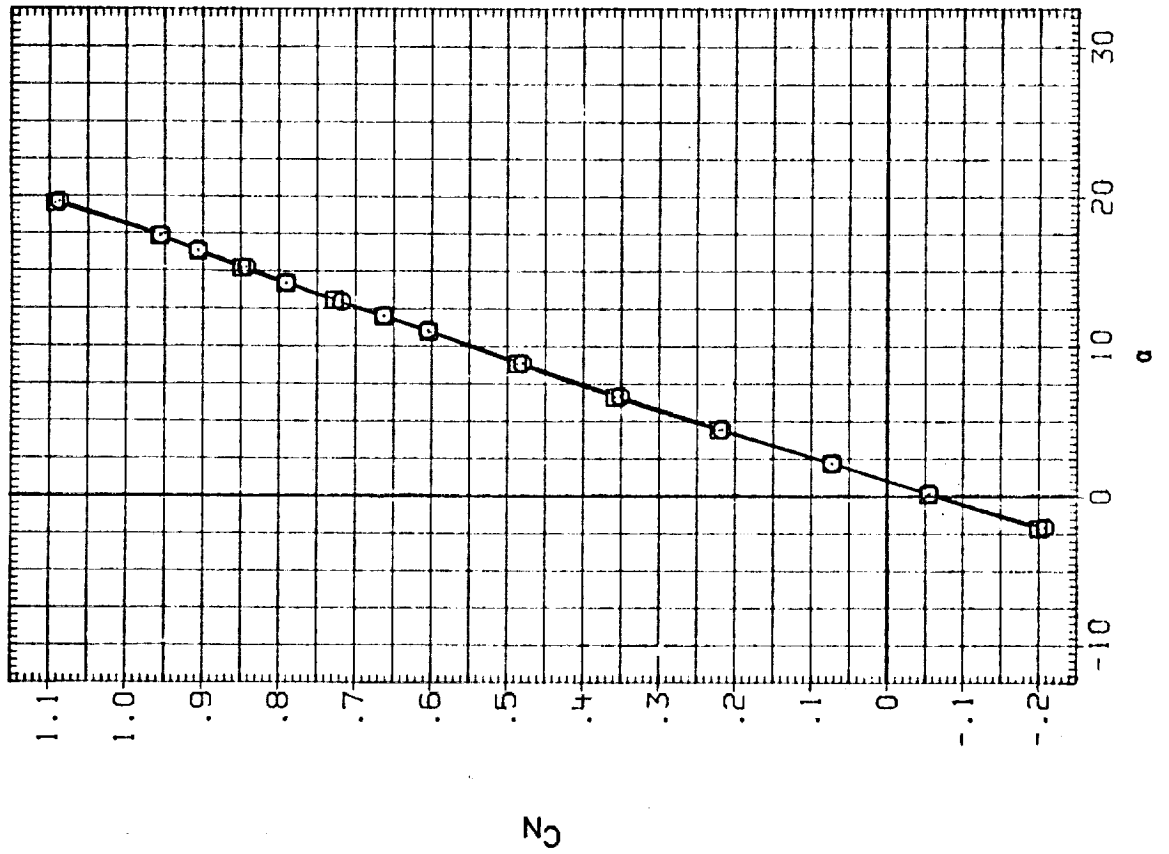


FIG. 28 EFFECT OF AILERON, ELEVON = 0

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)
 (RUK033) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA
 .000 .000 4.500 .000
 .000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO. FT.
 LREF 474.8000 INCHES
 BRFF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

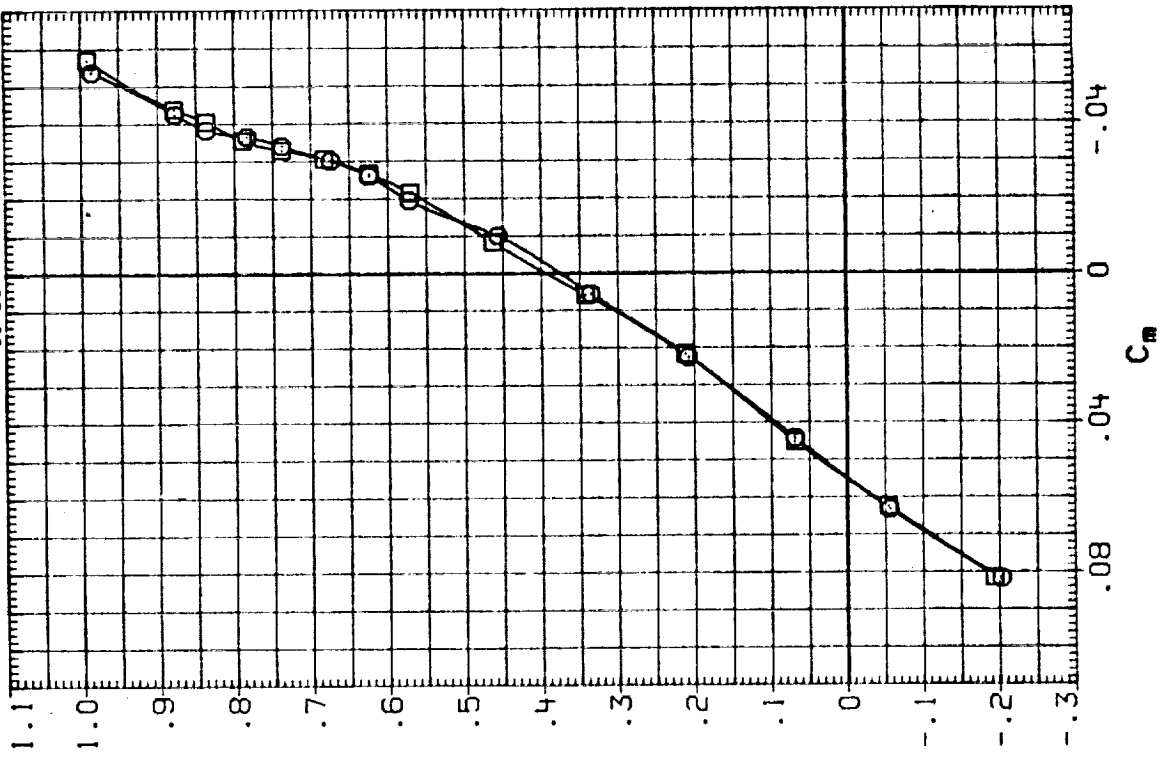
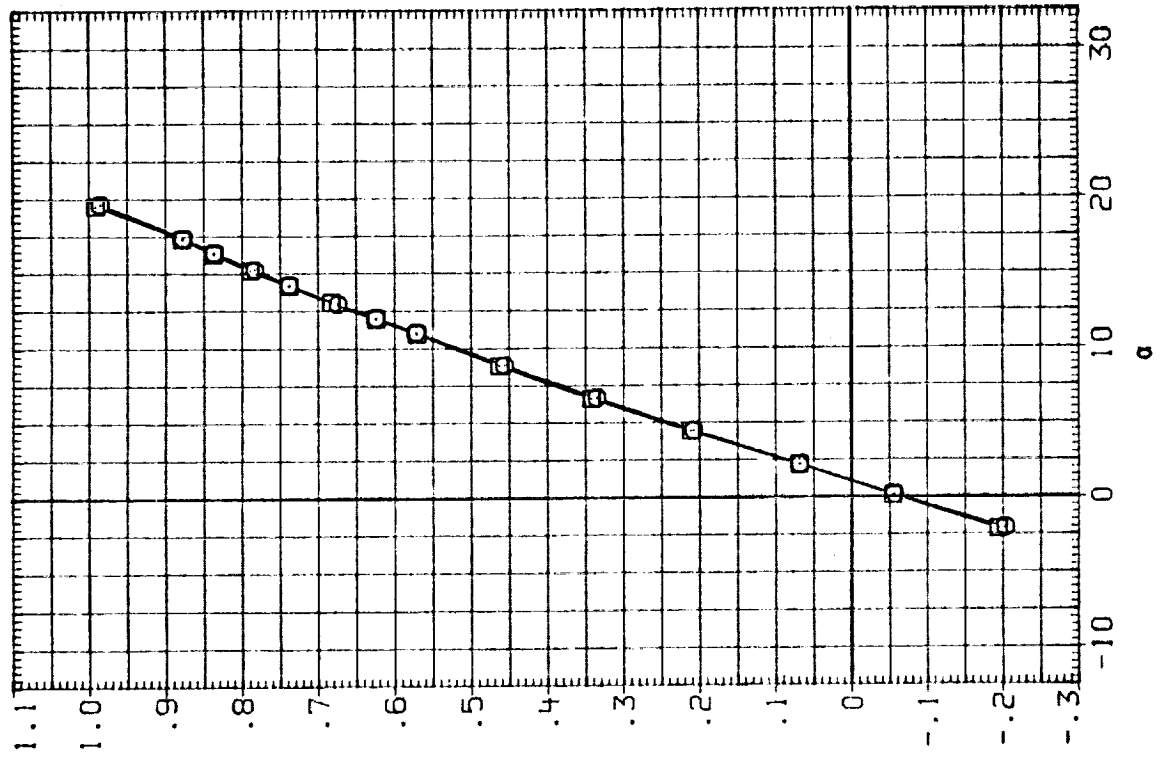


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .98

DATA SET SYMBOL: **LA70** BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK028) **LA70** BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK033)

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA REFERENCE INFORMATION
 .000 .000 .000 SREF 2690.0000 SQ.FT.
 .000 2.000 4.500 LREF 474.8000 INCHES
 .000 .000 .000 BRP 936.6800 INCHES
 .000 .000 .000 XMRP 1076.7000 IN. XO
 .000 .000 .000 YMRP .0000 IN. YO
 .000 .000 .000 ZMRP 375.0000 IN. ZO
 SCALE .0150

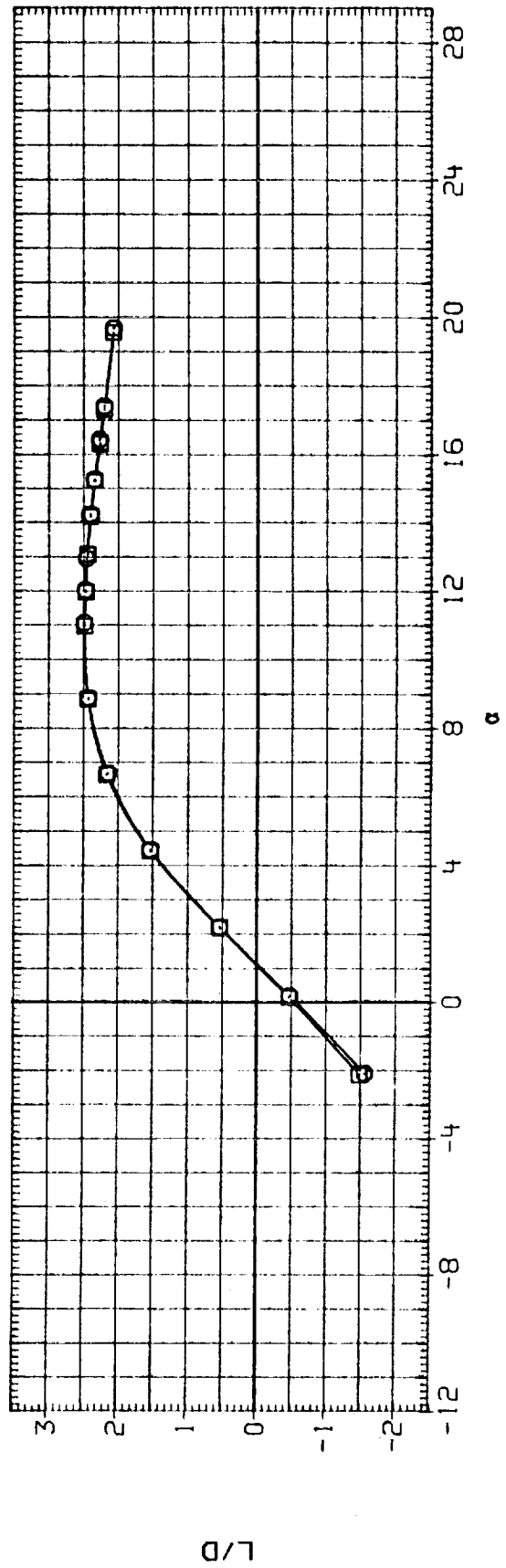
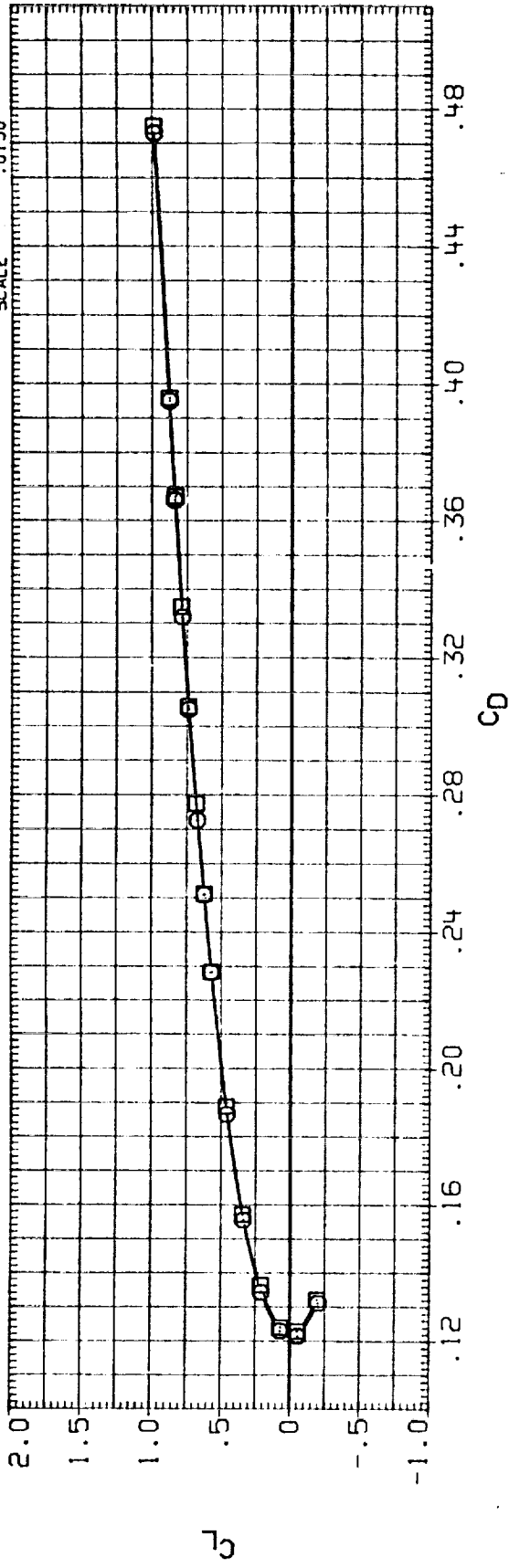


FIG. 28 EFFECT OF AILERON, ELEVON = 0

| | | | | | | |
|-----------------|--|--------|---------|-------|------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK033) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 2.000 | 4.500 | .000 | LREF 474.8000 INCHES |
| | | | | | | EREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

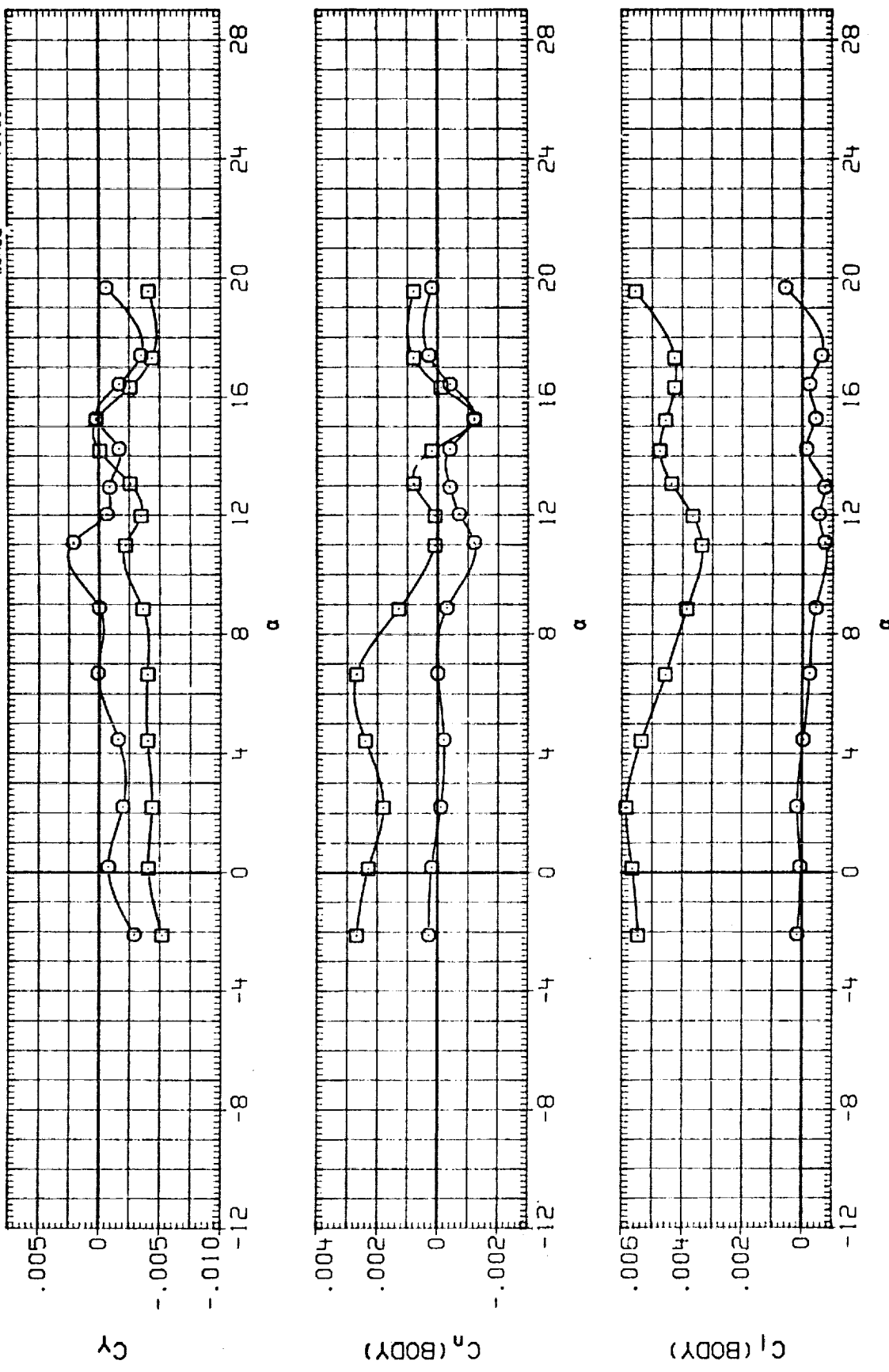


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION ELEVON AILERON RN/L BETA REFERENCE INFORMATION

| | | | | | | | | |
|----------|--|------|-------|-------|------|-------|-----------|--------|
| (CUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | SREF | 2690.0000 | SQ.FT. |
| (CUK033) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 2.000 | 4.500 | .000 | LREF | 474.8000 | INCHES |
| | | | | | | BREF | 936.6800 | INCHES |
| | | | | | | XMRP | 1076.7000 | IN. XO |
| | | | | | | YMRP | .0000 | IN. YO |
| | | | | | | ZMRP | 375.0000 | IN. ZO |
| | | | | | | SCALE | .0150 | |

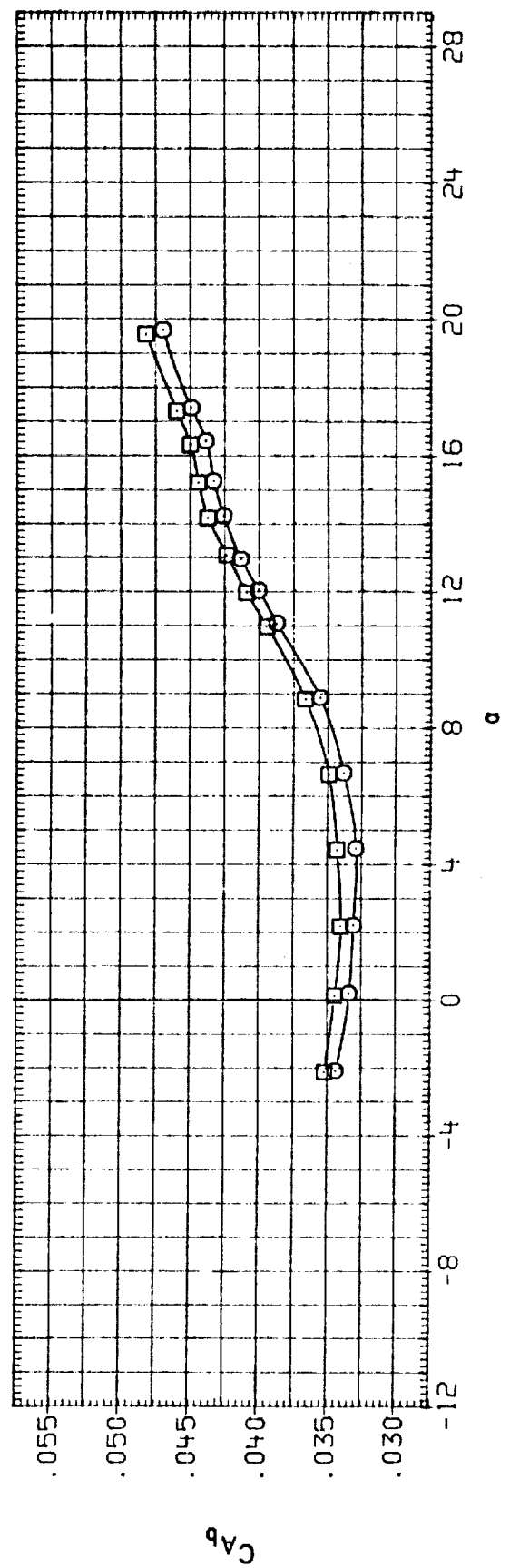
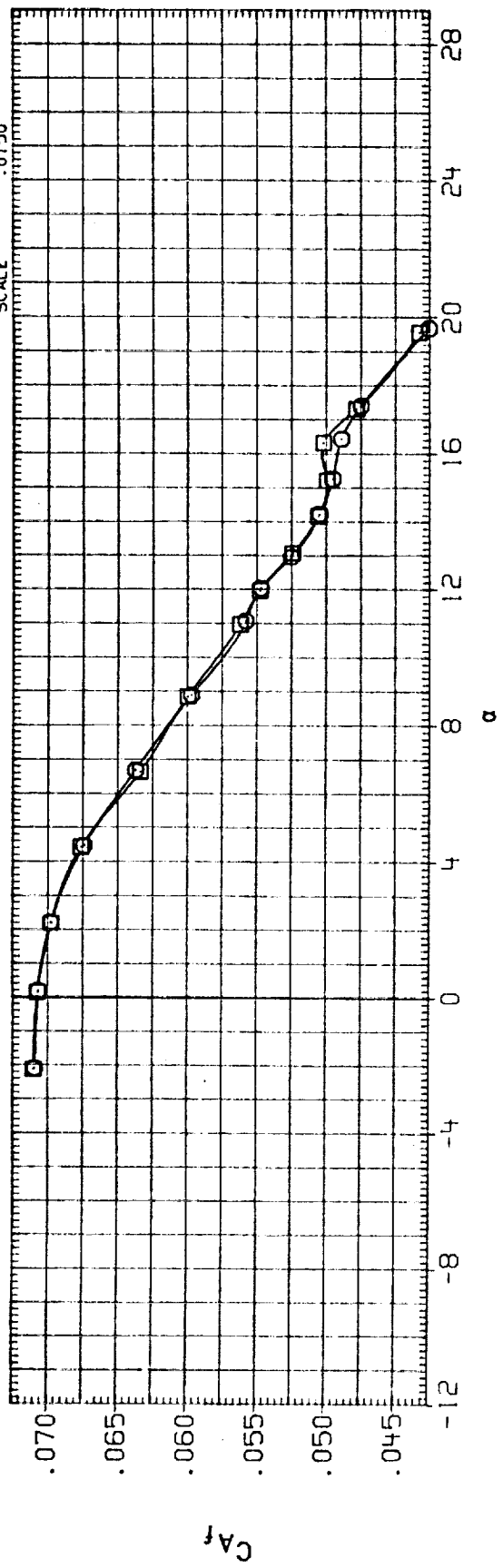


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK033) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON

.000
 .000

AILERON

.000
 2.000

RN/L

4.500
 4.500

BETA

.000
 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 YMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

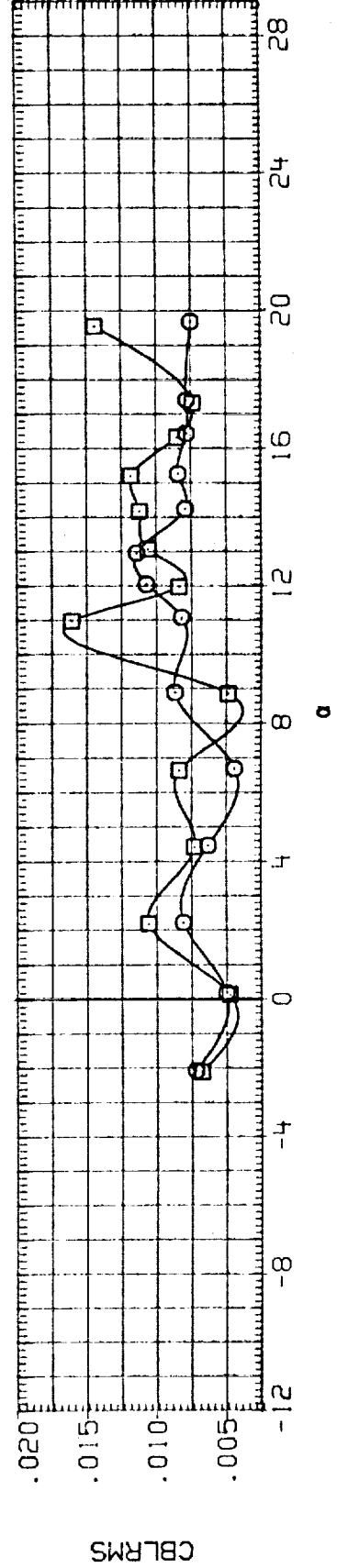
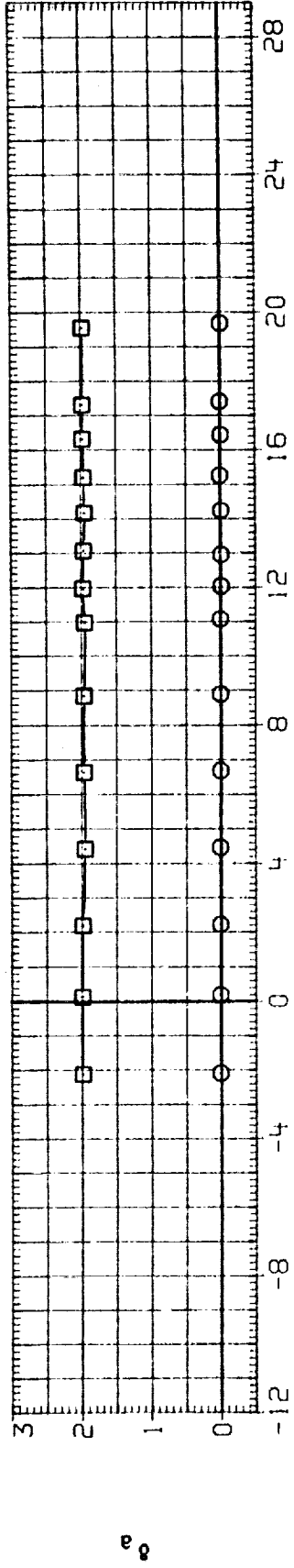
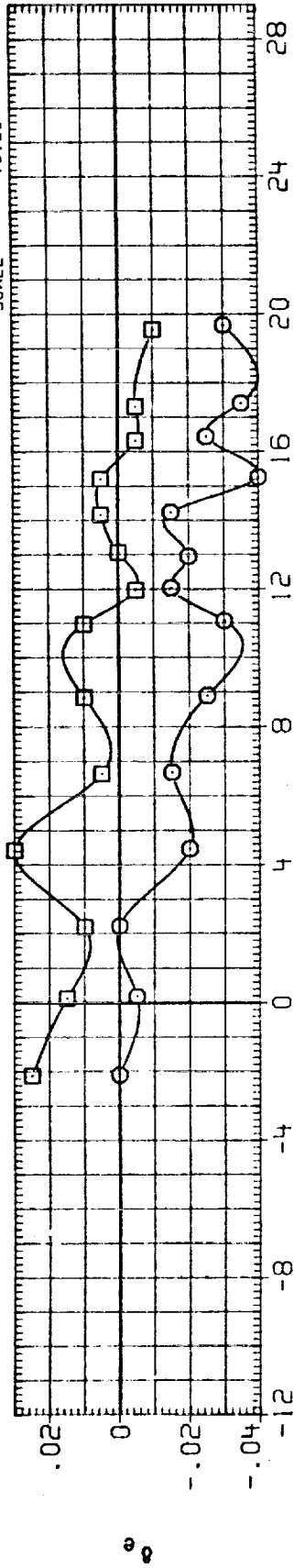


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK033) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON RN/L BETA
 .000 .000 4.500 .000
 .000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

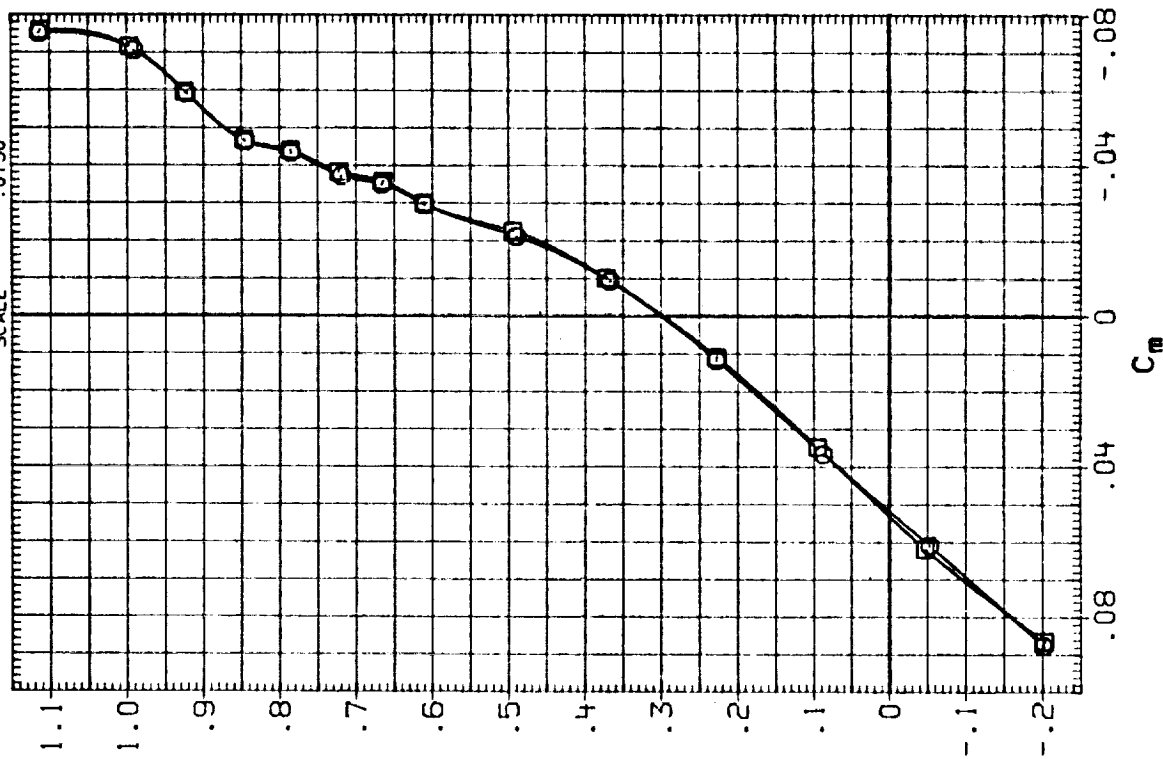
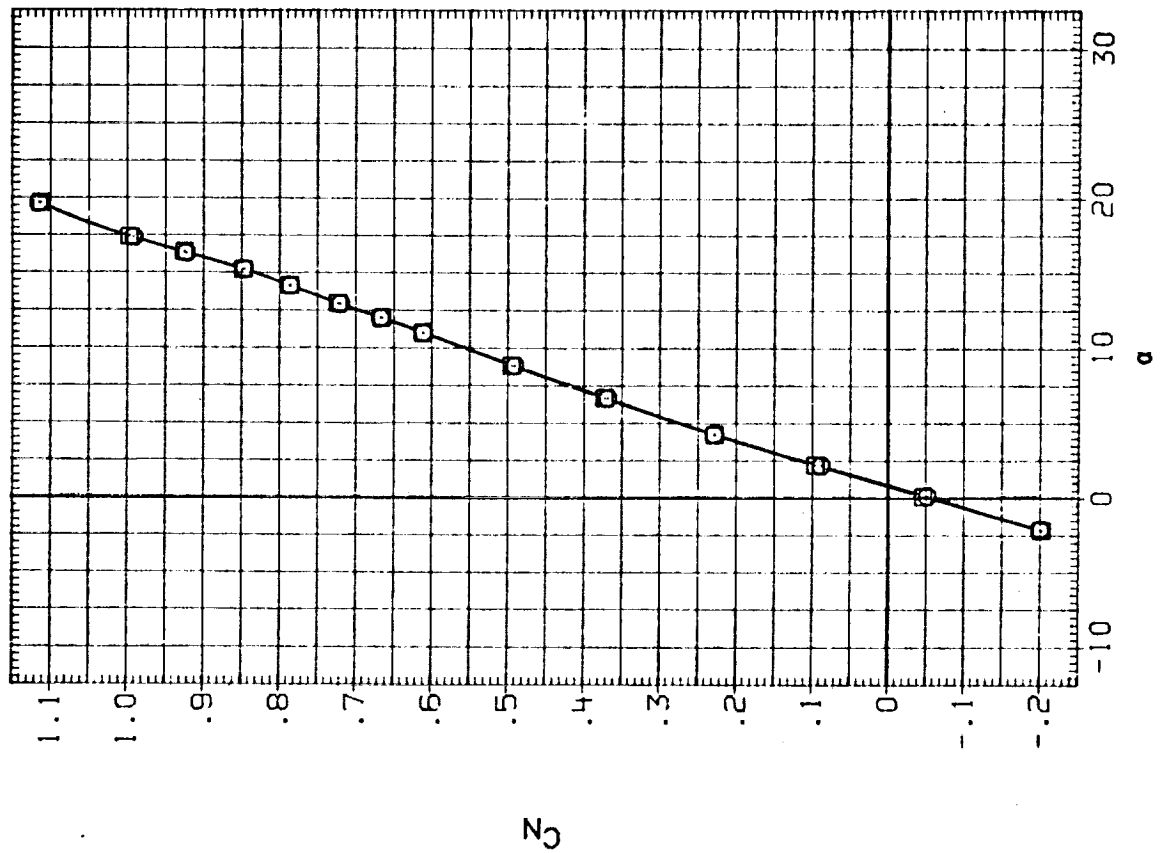


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A)MACH = 1.05

REFERENCE INFORMATION
 SREF 2690.0000 SO. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

ELEVON AILERON R/VL BETA
 .000 .000
 .000 2.000 4.500 .000
 .000 .000 4.500 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK033) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

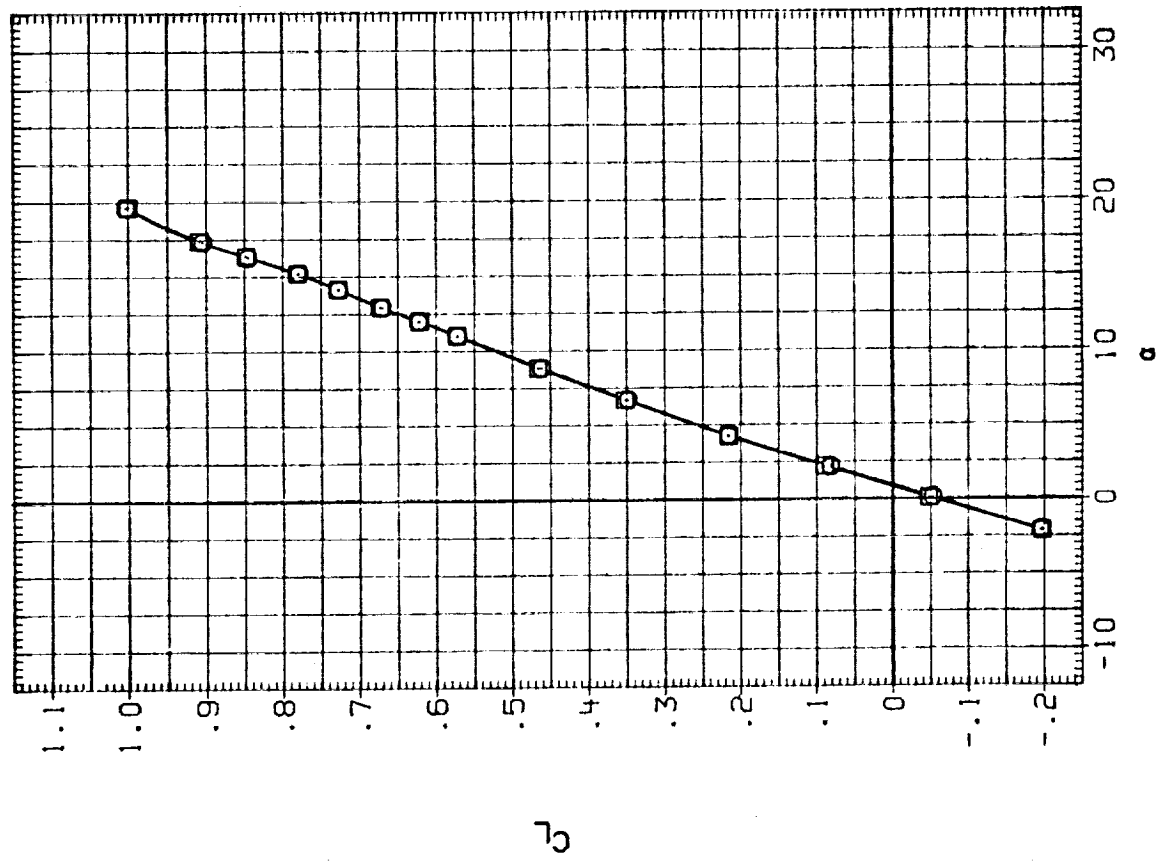
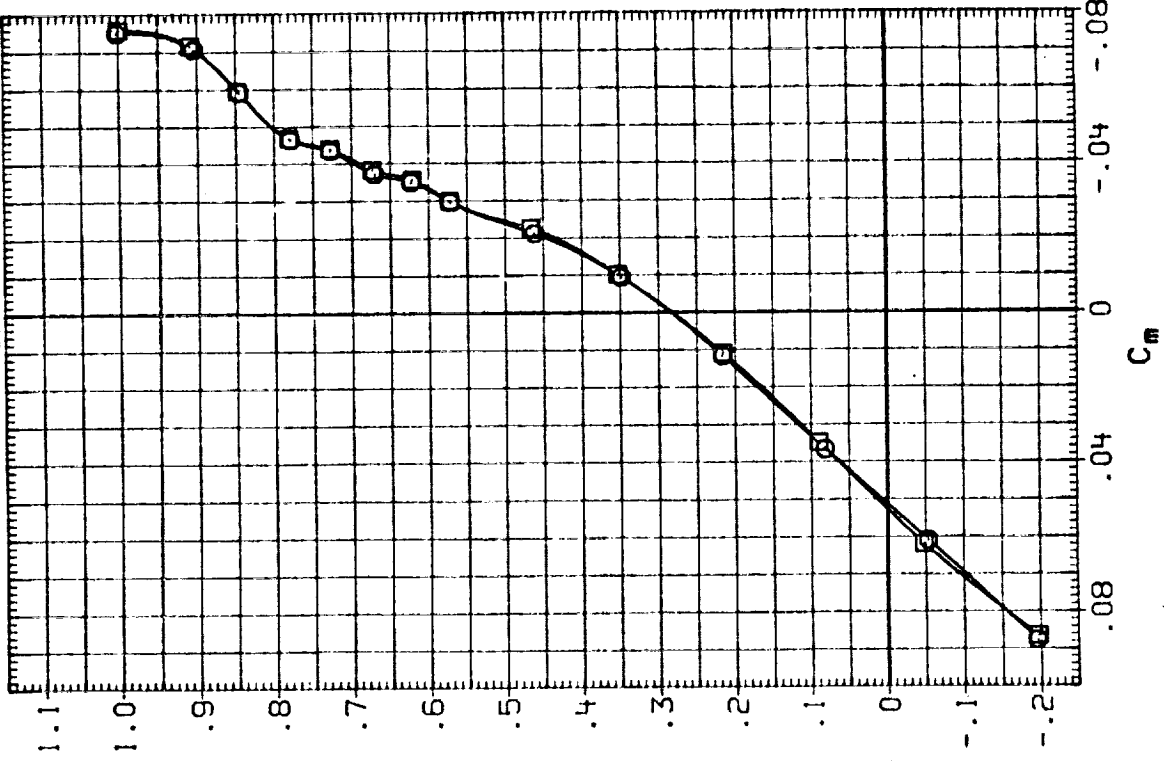


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK033) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA
 .000 .000 4.500 .000
 .000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

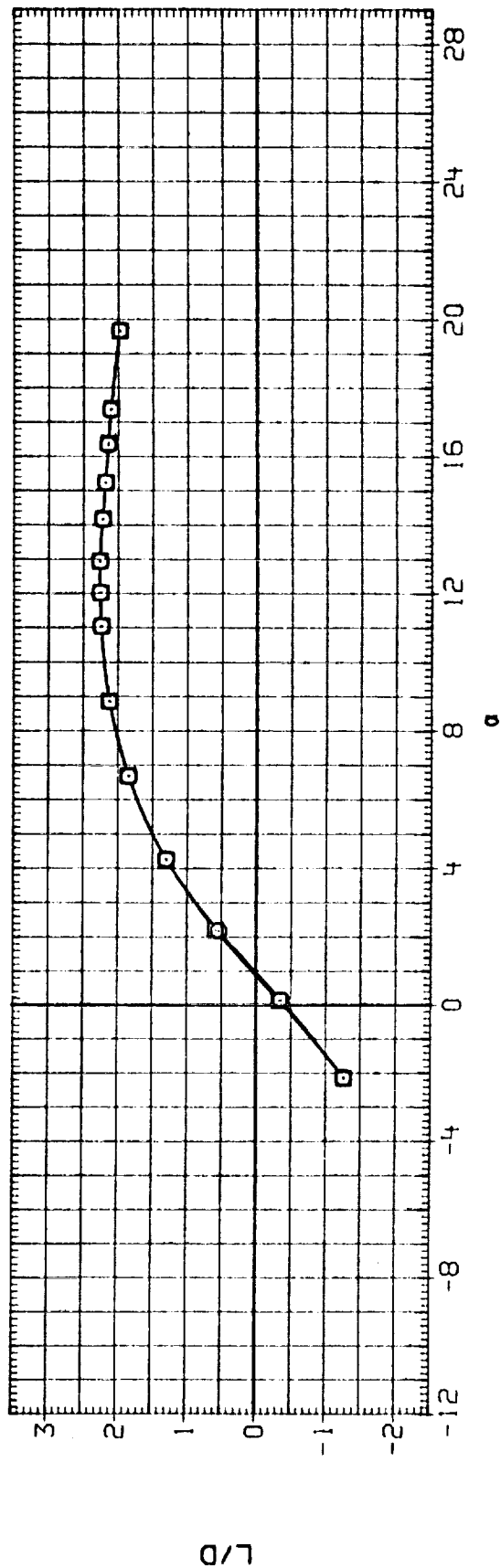
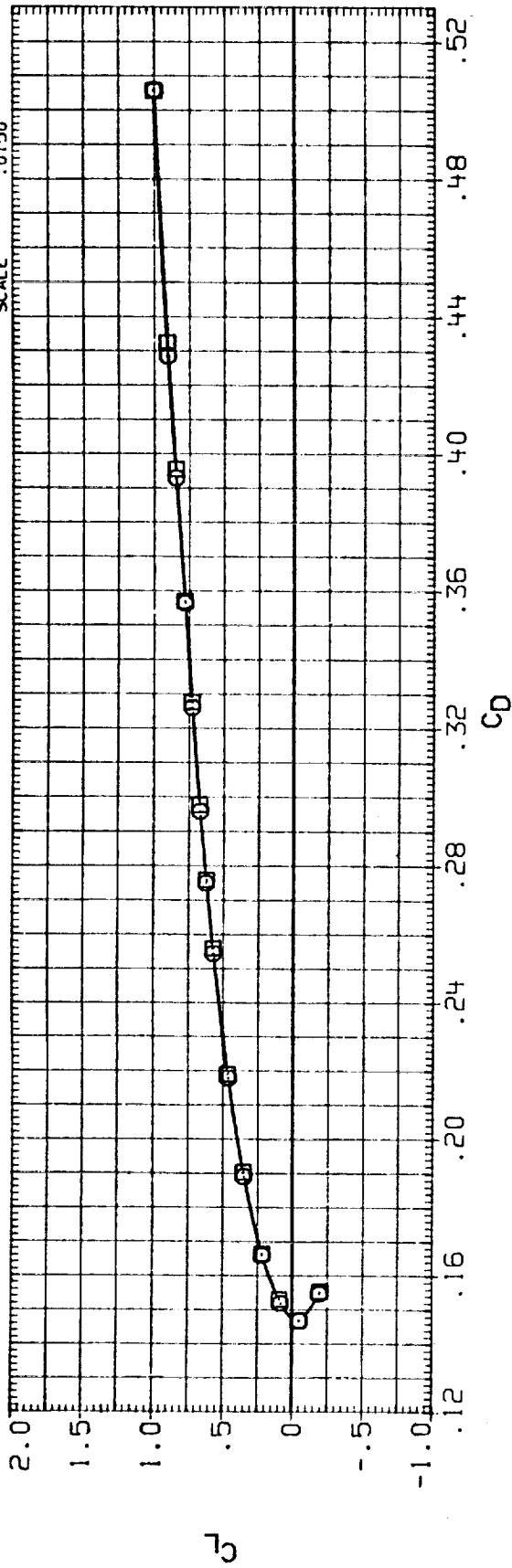


FIG. 28 EFFECT OF AILERON, ELEVON = 0

| | | | | | | |
|-----------------|--|--------|---------|-------|------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RV/L | BETA | REFERENCE INFORMATION |
| (RUK0281) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | SREF 2690.0000 SO.FT. |
| (RUK033) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 2.000 | 4.500 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | YMRP 1076.7000 IN. X0 |
| | | | | | | ZMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

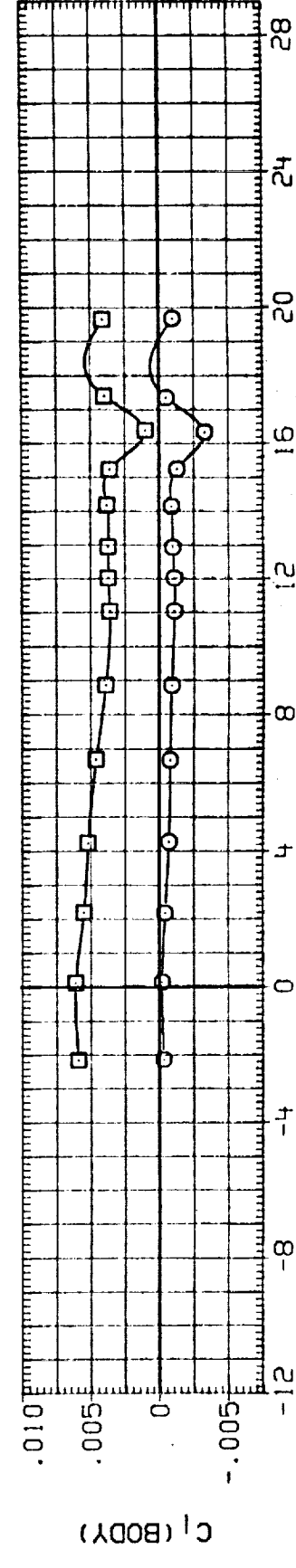
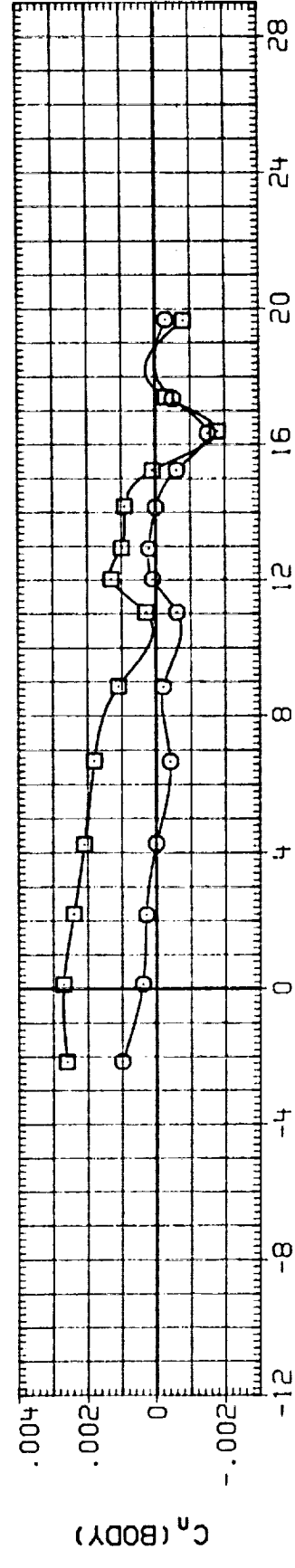
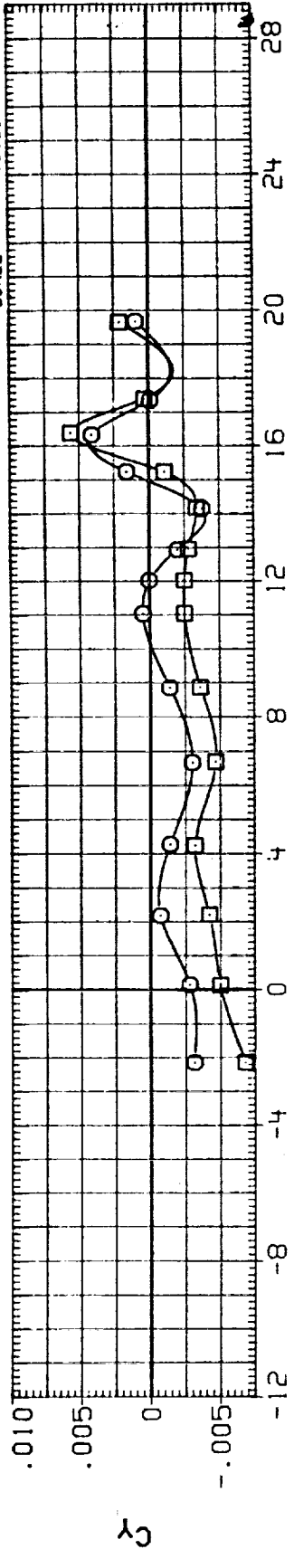


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.05

| | | | | | | |
|-----------------|--|--------|---------|-------|------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
| (CUK028) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK033) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 2.000 | 4.500 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

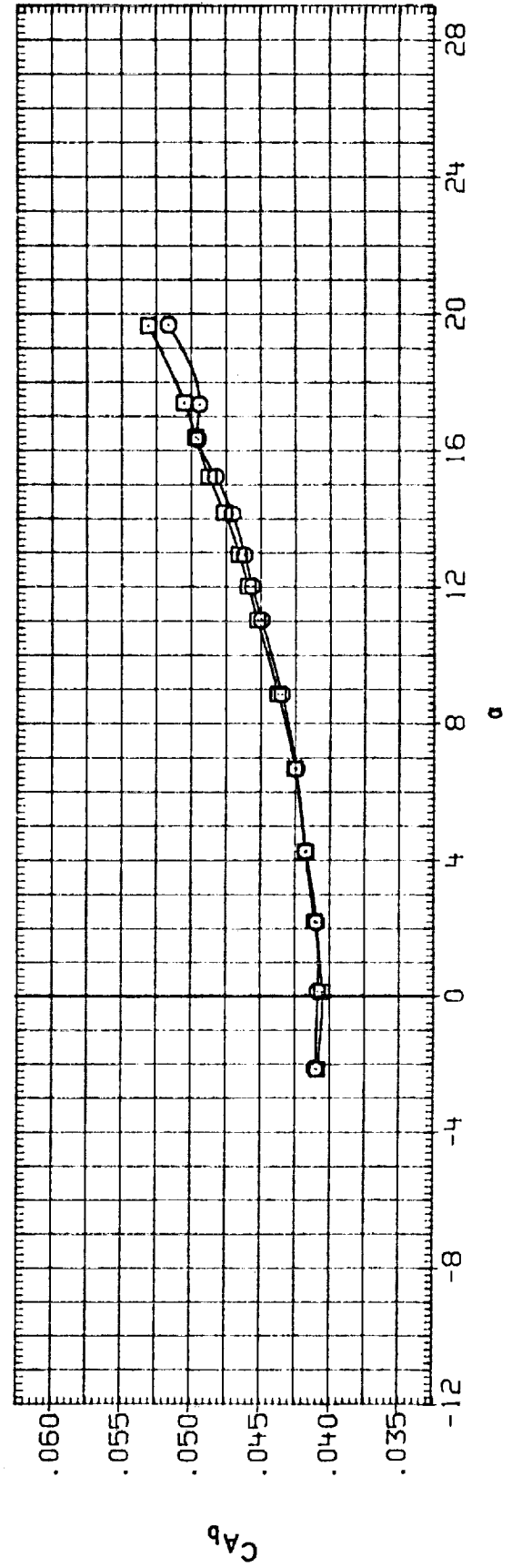
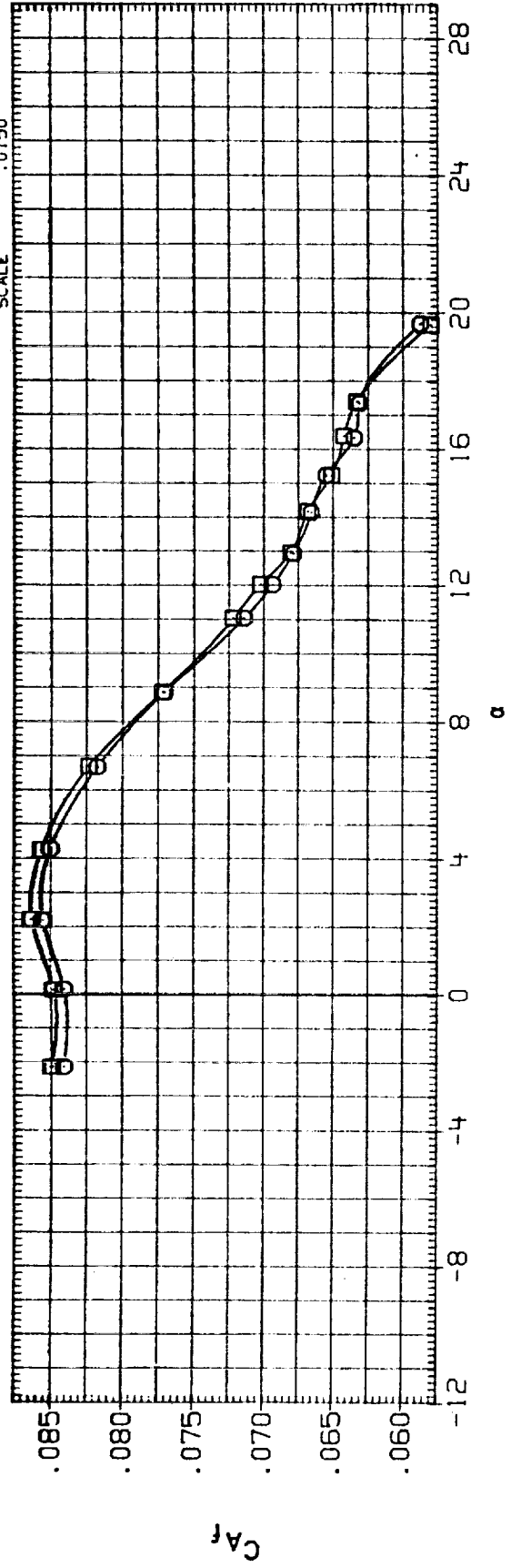


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK028) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK033) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA

.000 .000 4.500 .000

.000 2.000 4.500 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BPREF 936.6800 INCHES

YMPP 1076.7000 IN. YO

ZMPP .0000 IN. YO

ZMPP 375.0000 IN. ZO

SCALE .0150

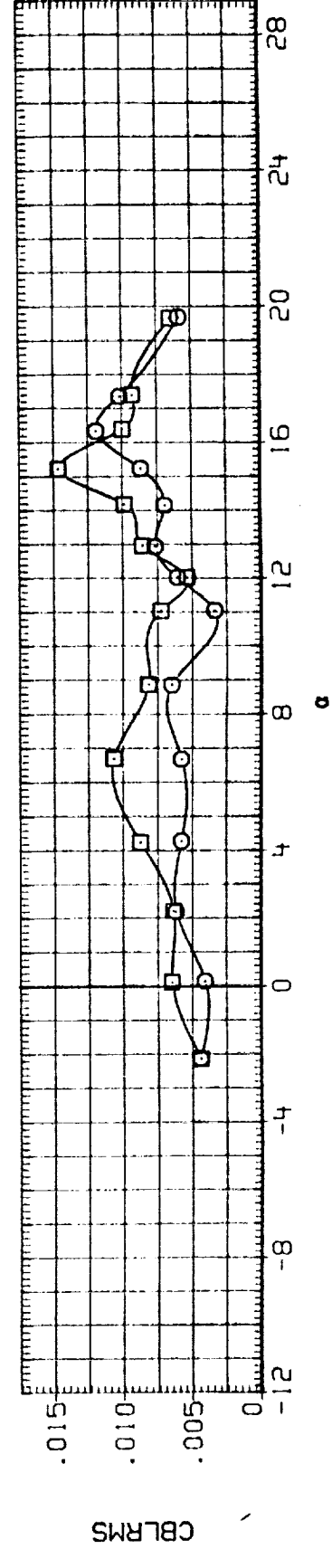
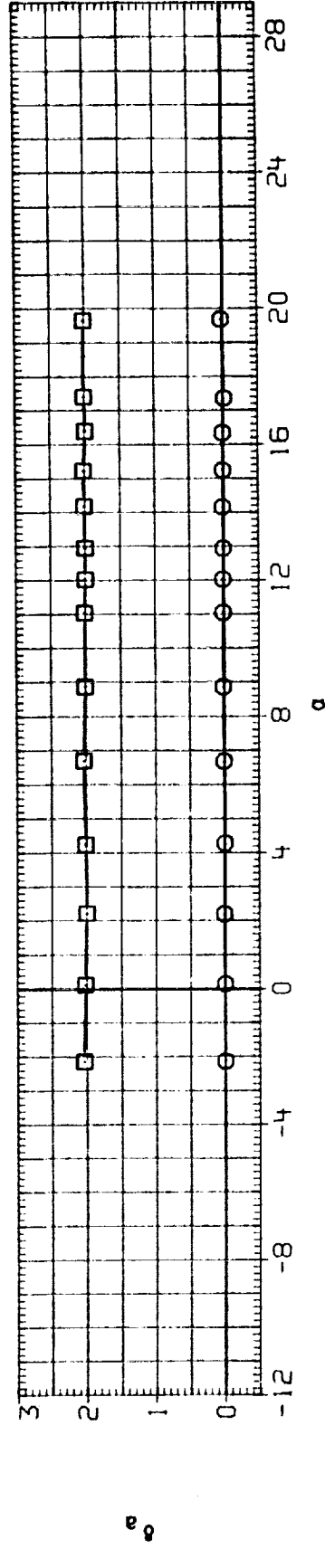
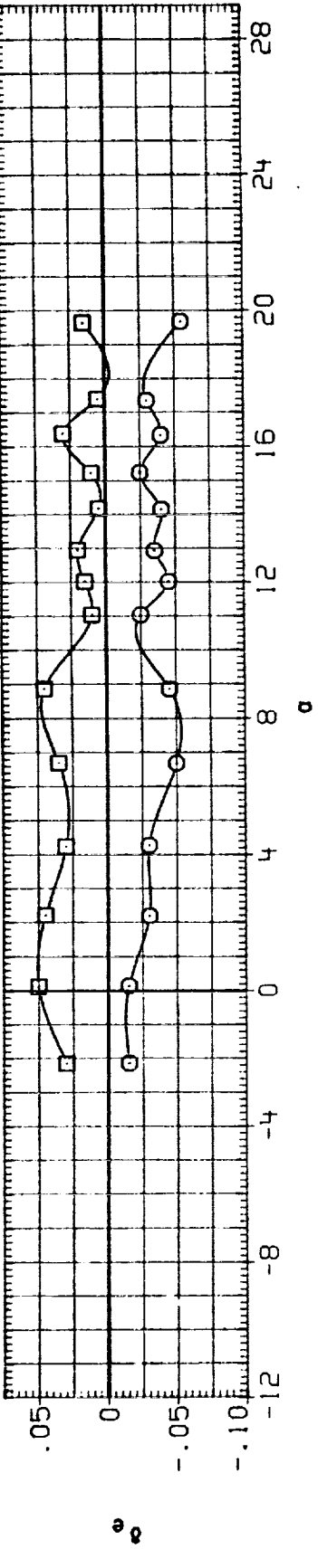


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK030) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK034) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/VL BETA
 .000 .000 .000
 .000 2.000 4.000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

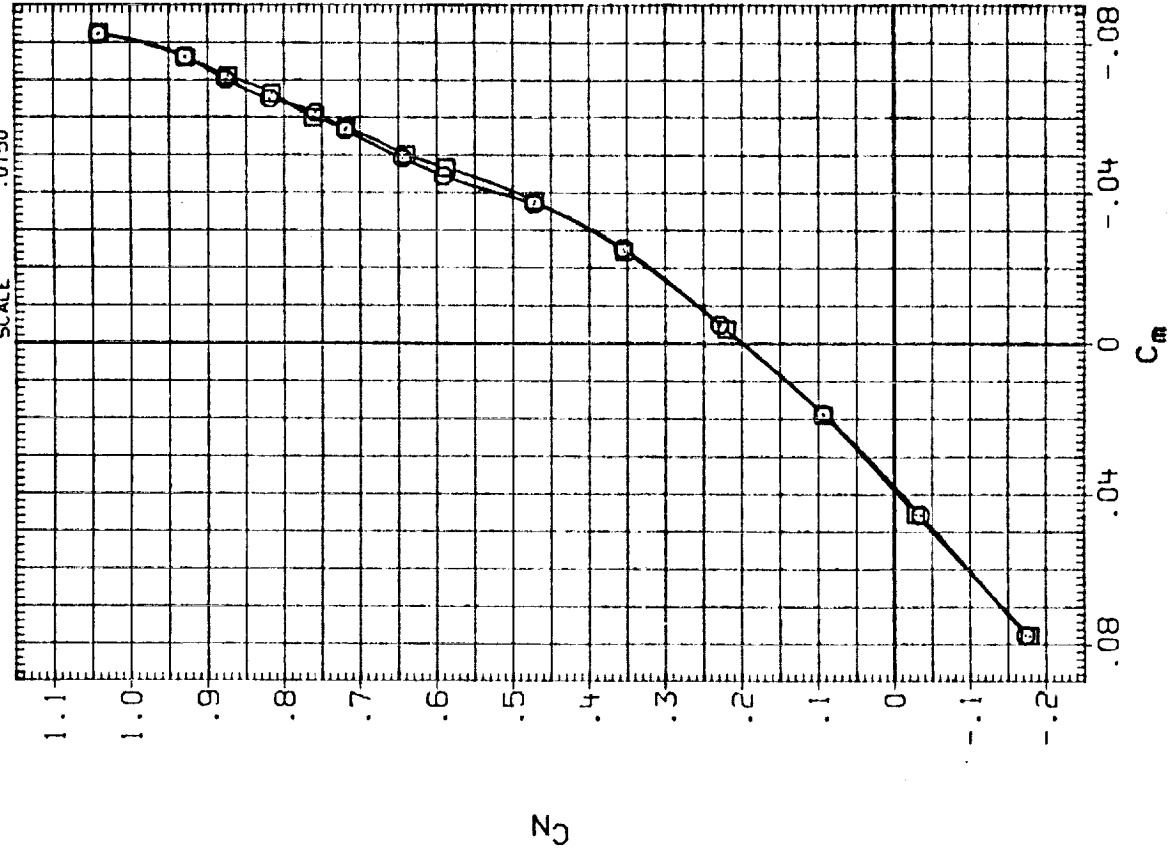
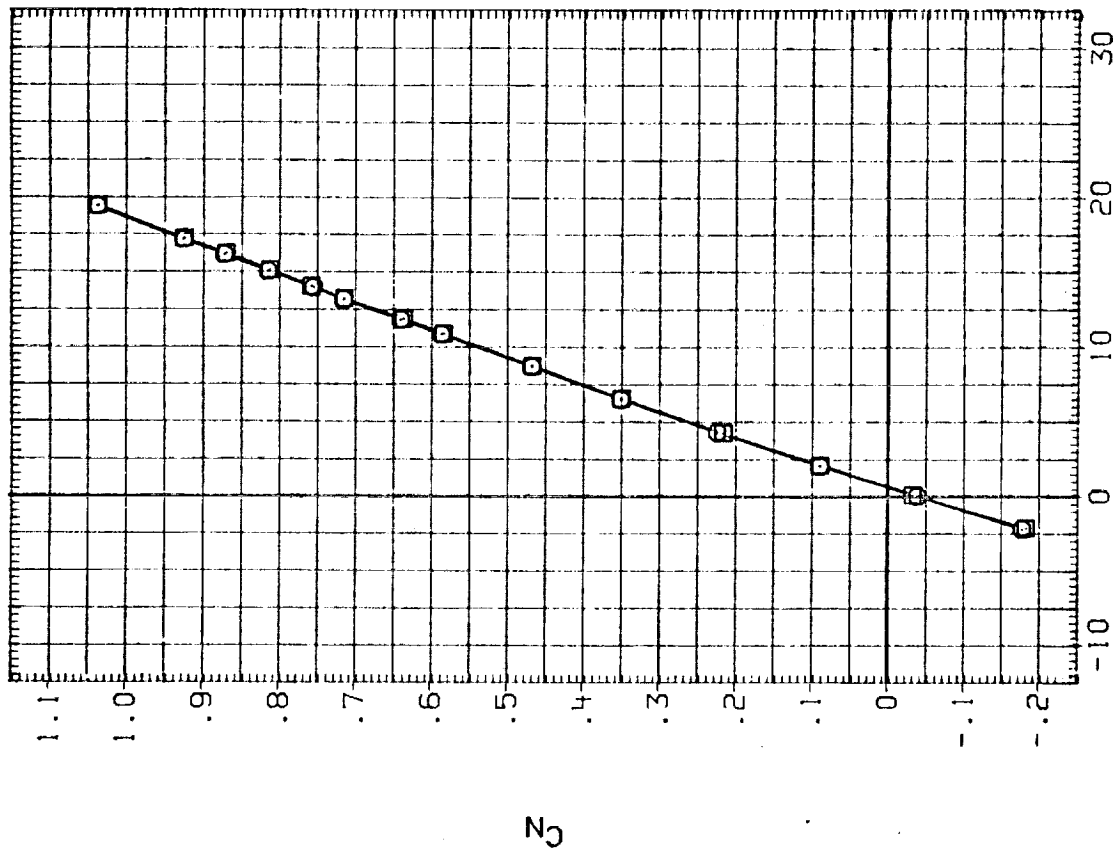


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK030) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK034) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RV/L BETA
 .000 .000
 .000 2.000 4.000 .000
 .000 .000 4.000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

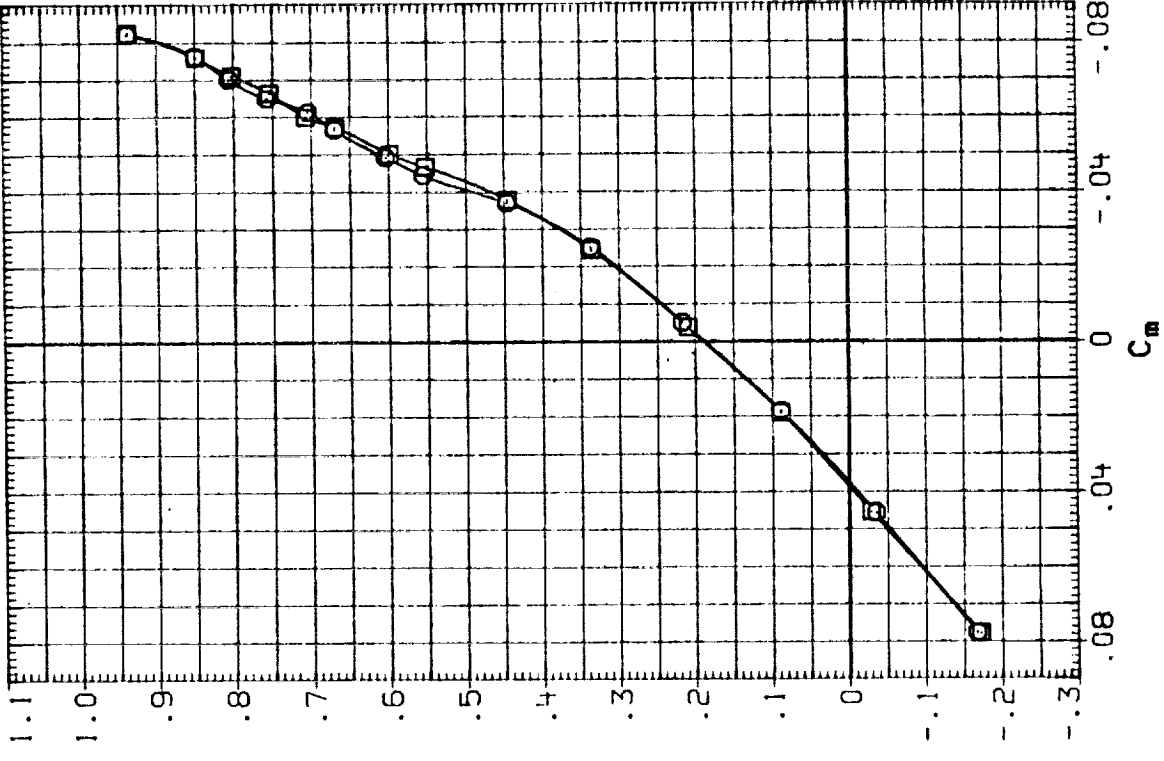
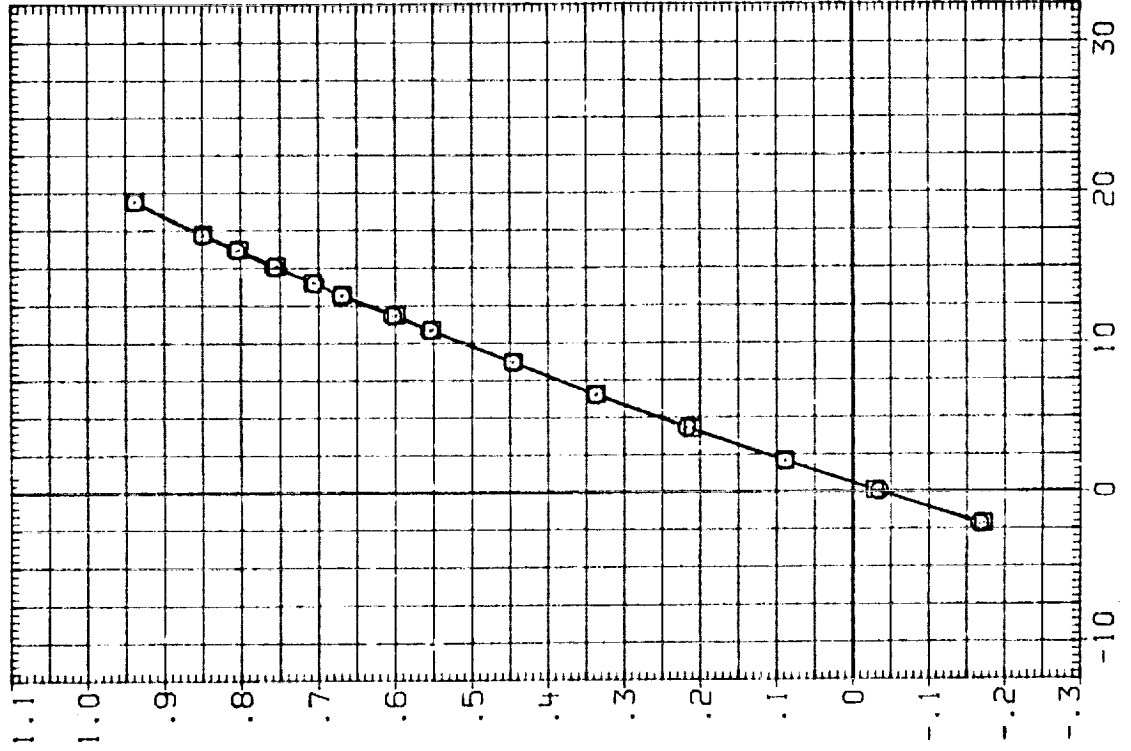


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK030) ○ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK034) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

ELEVON AILERON RN/L BETA

.000 .000 4.000 .000

.000 2.000 4.000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

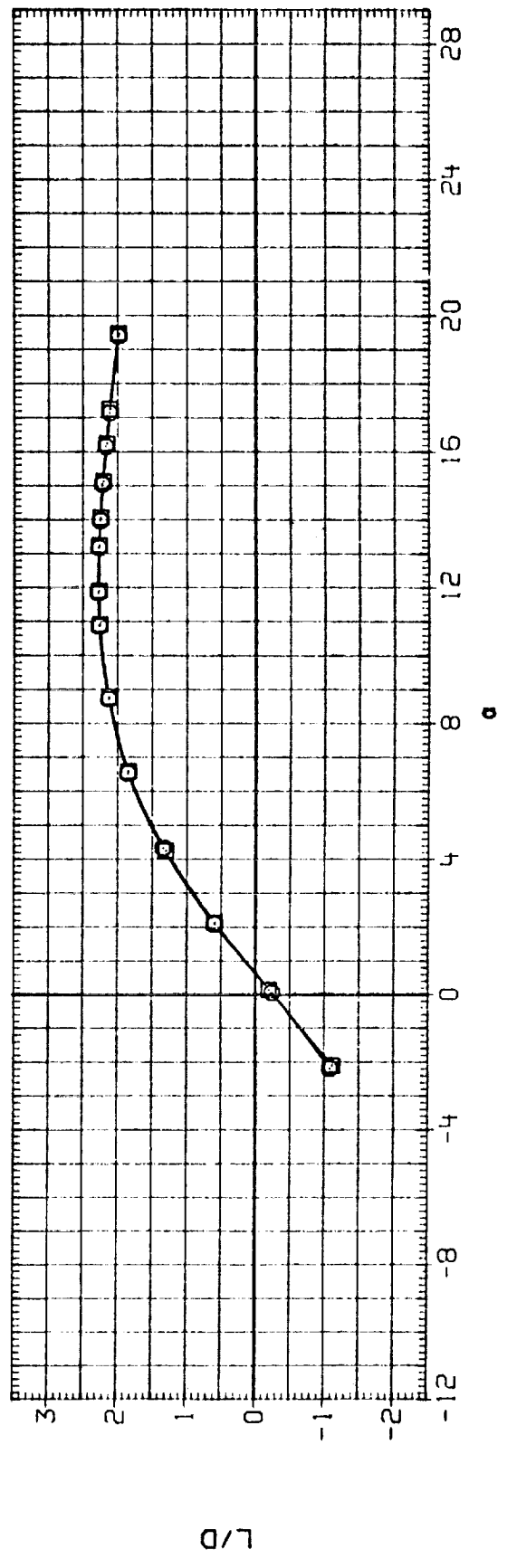
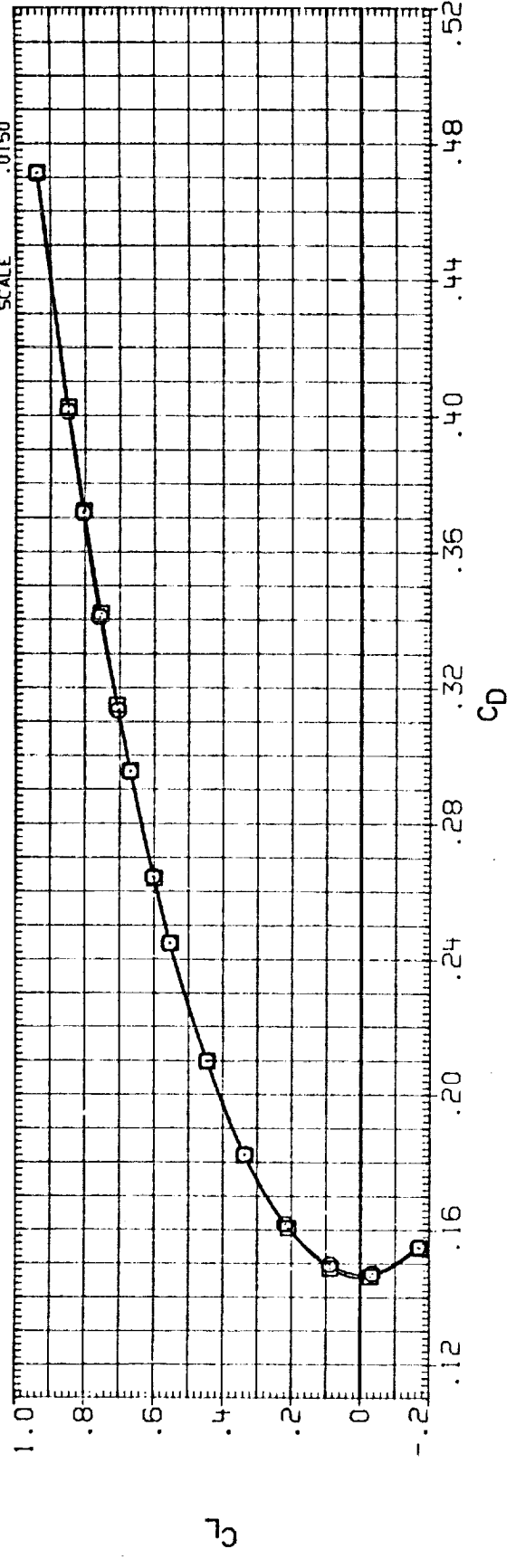


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.20

DATA SET SYMBOL (RUK0301)
 (RUK034)

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)
 LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)

ELEVON AILTRON RN/L BETA

SREF 2690.0000 SO. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

SCALE .0150

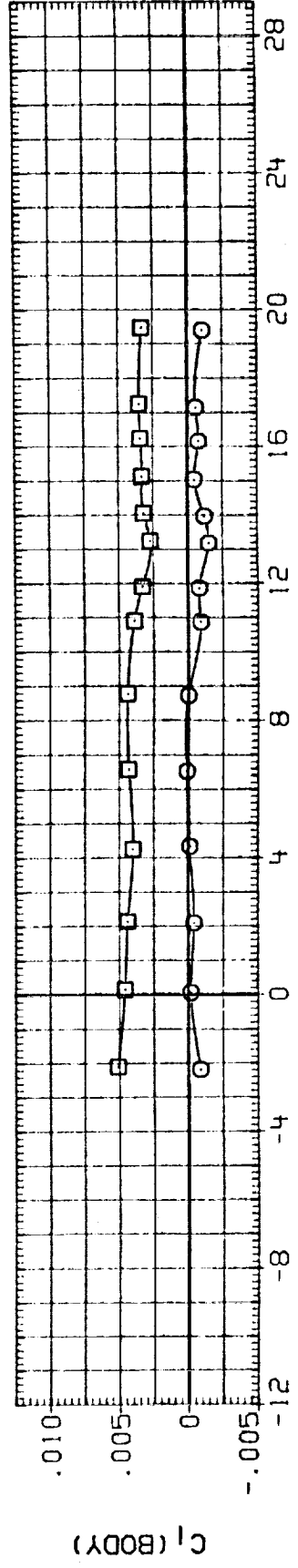
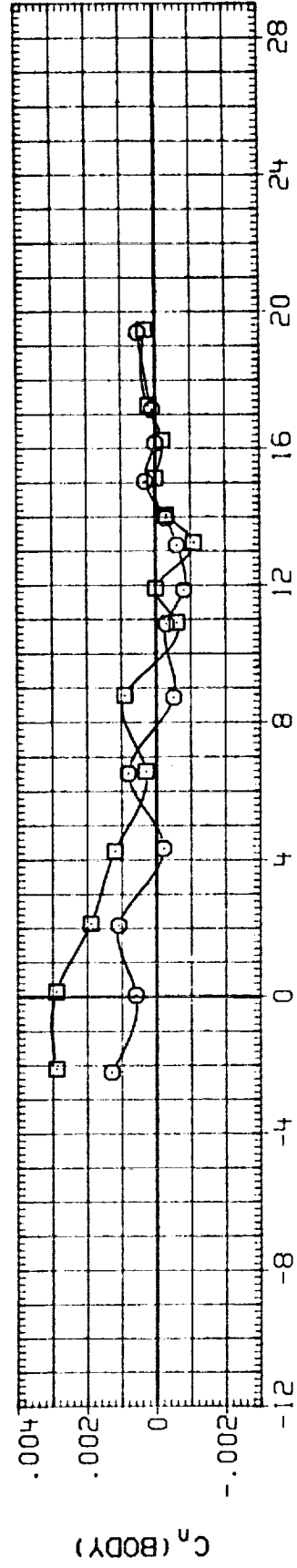
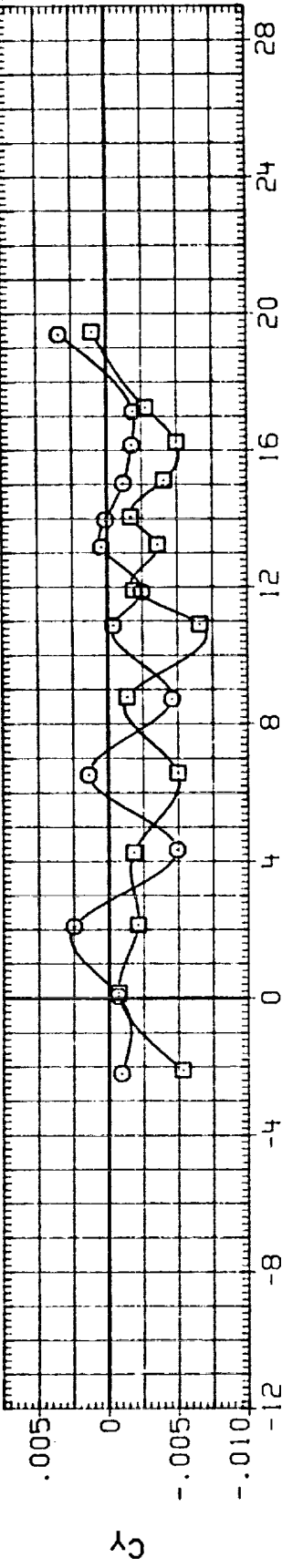


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.20

| | | | | | | |
|-----------------|--|--------|---------|-------|------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
| (CUK030) | LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON) | .000 | .000 | 4.000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK031) | LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON) | .000 | 2.000 | 4.000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

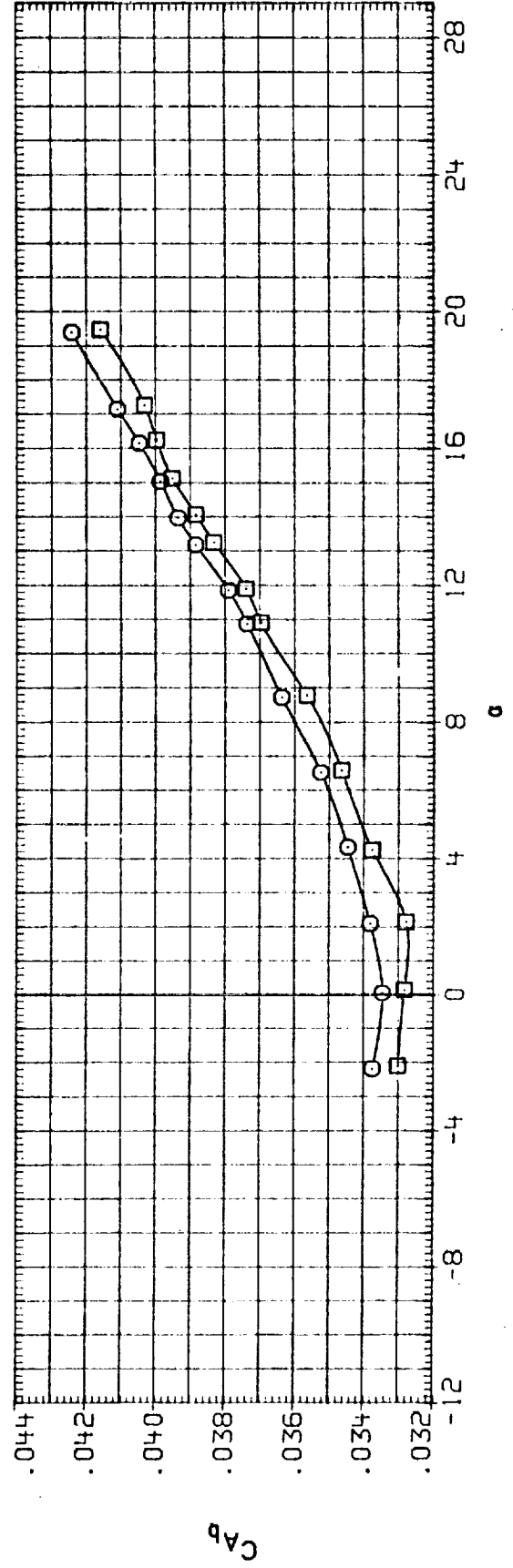
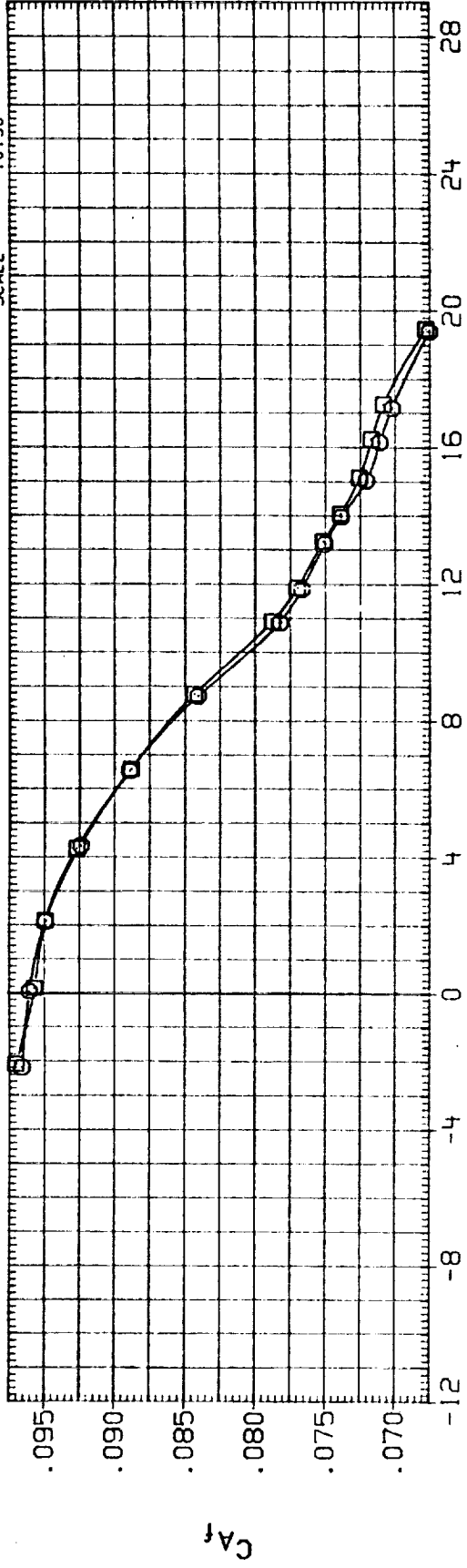


FIG. 28 EFFECT OF AILERON, ELEVON = 0

| | | | | | | |
|-----------------|--|--------|---------|-------|------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
| (CUK030) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | .000 | 4.000 | .000 | SREF 2690.0000 SQ. FT. |
| (CUK034) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 2.000 | 4.000 | .000 | LREF 474.6800 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1075.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

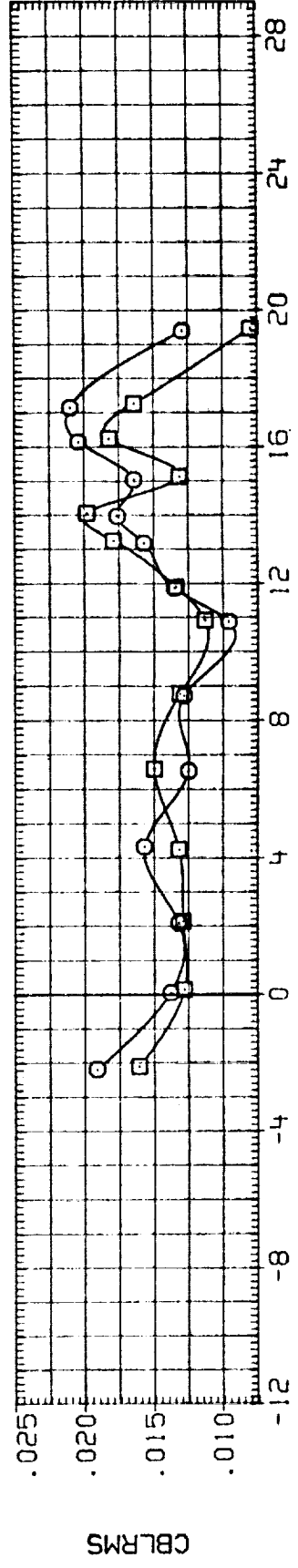
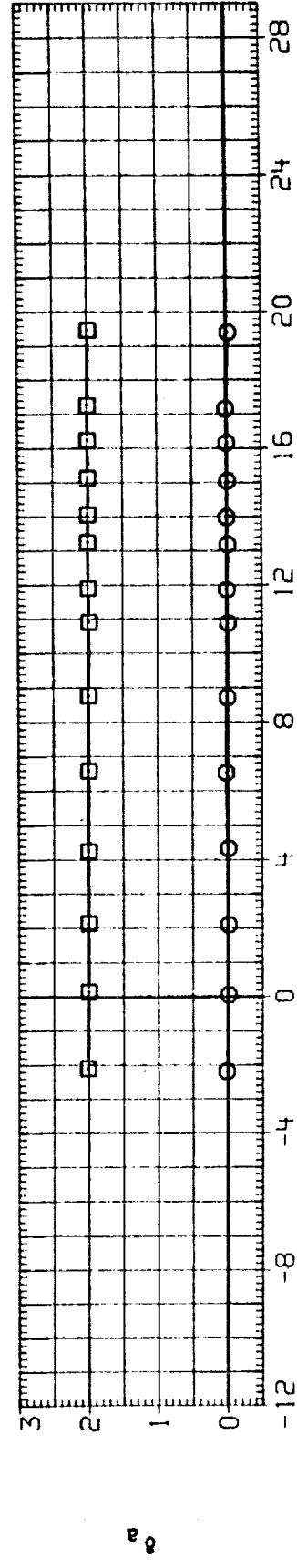
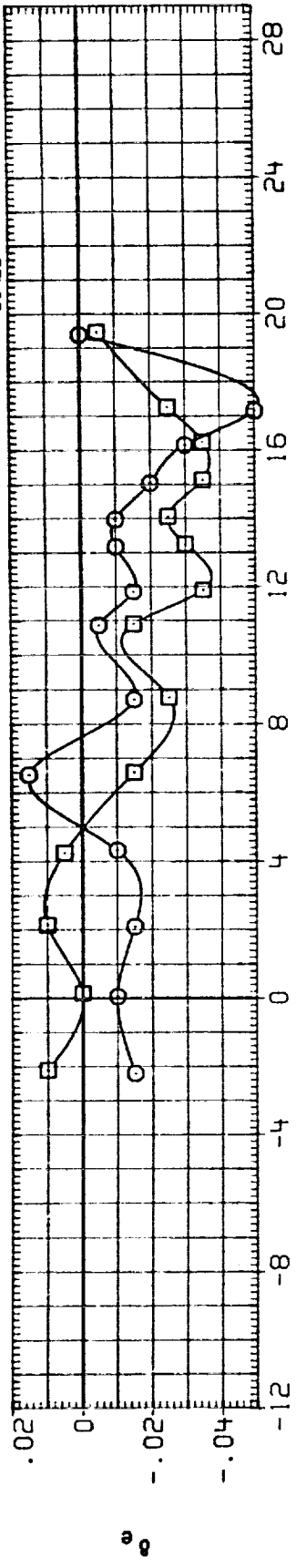


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK036) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK040) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA
 10.000 .000 4.500 .000
 10.000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

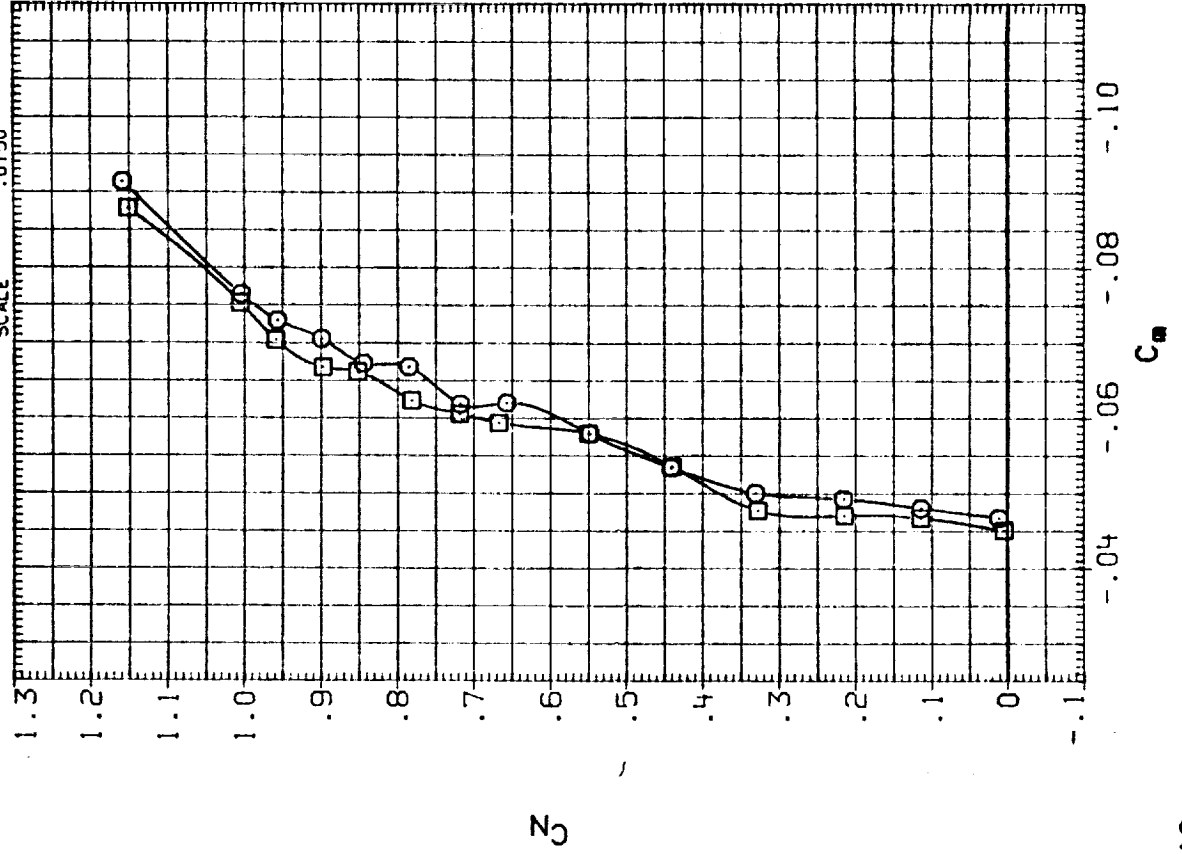
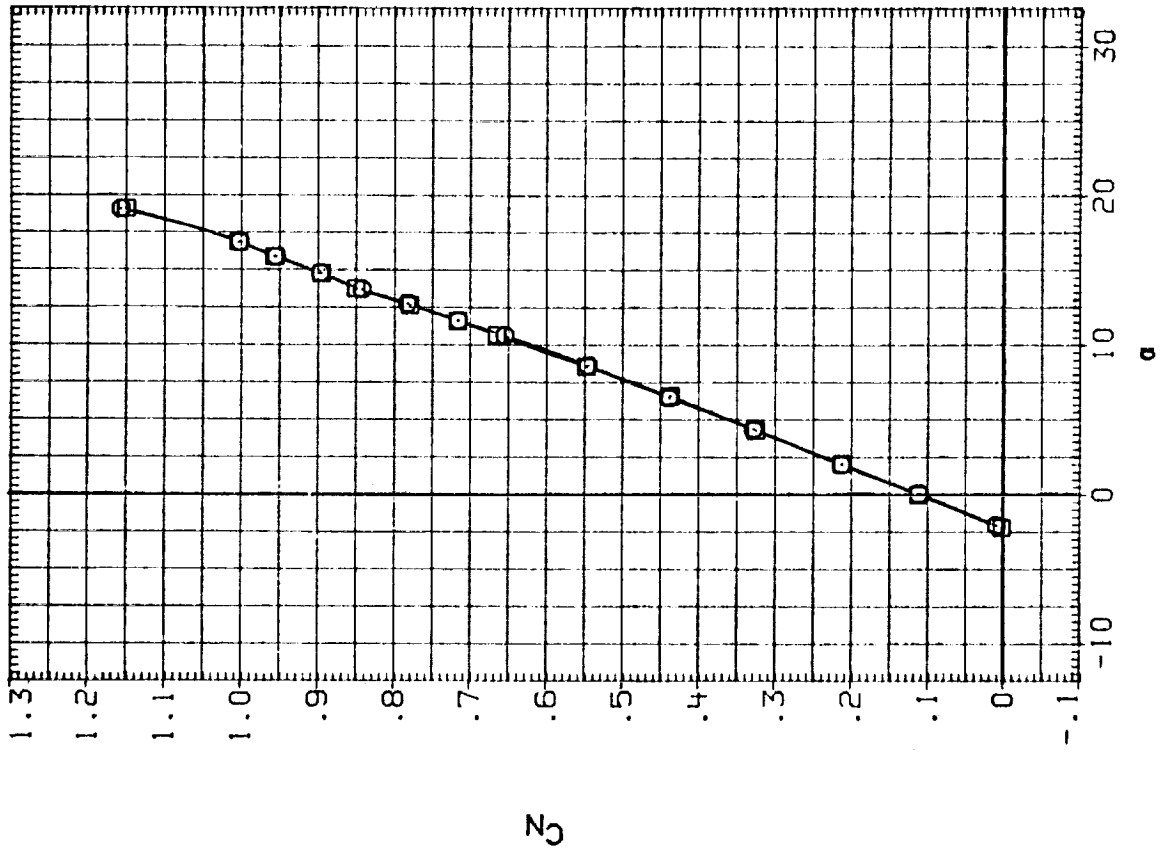


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .60

DATA SET SYMBOL
 (RUK0361)
 (RUK0401)

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON
 10.000
 10.000

AILERON
 .000
 2.000

RV/L
 4.500
 4.500

BETA
 .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

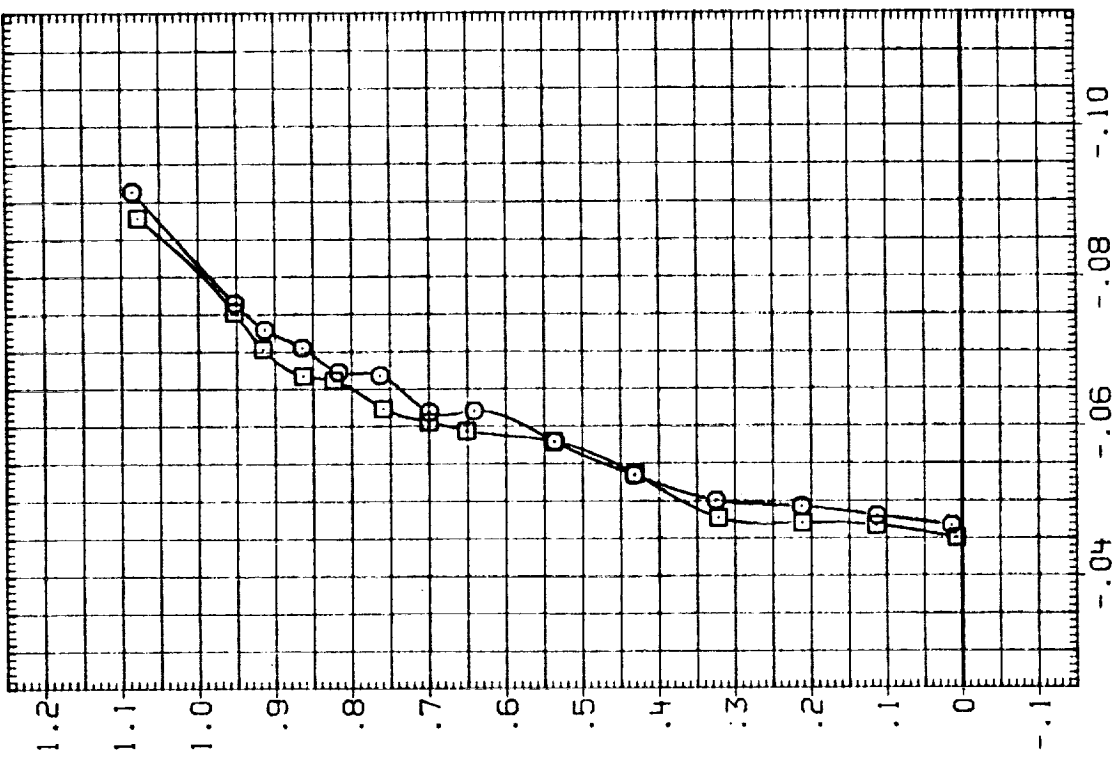
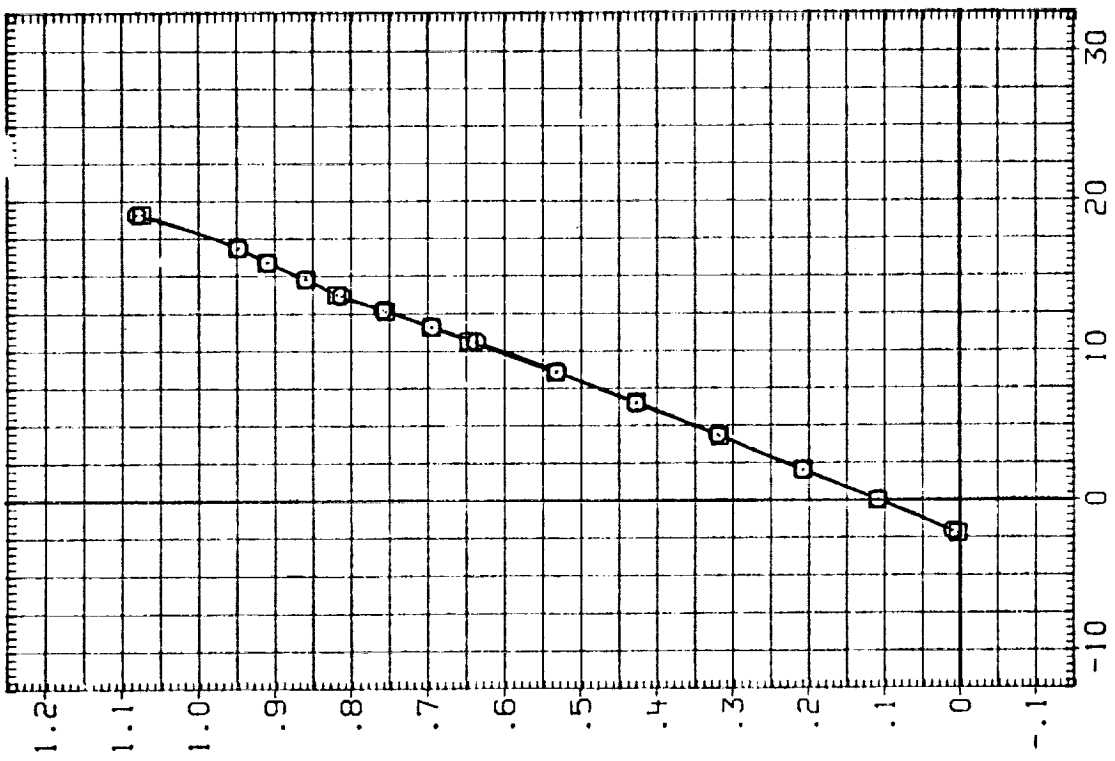


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .60

| | | | | | | |
|-----------------|--|--------|---------|-------|------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | SREF 2690.0000 SO.FT. |
| (RUK040) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 2.000 | 4.500 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

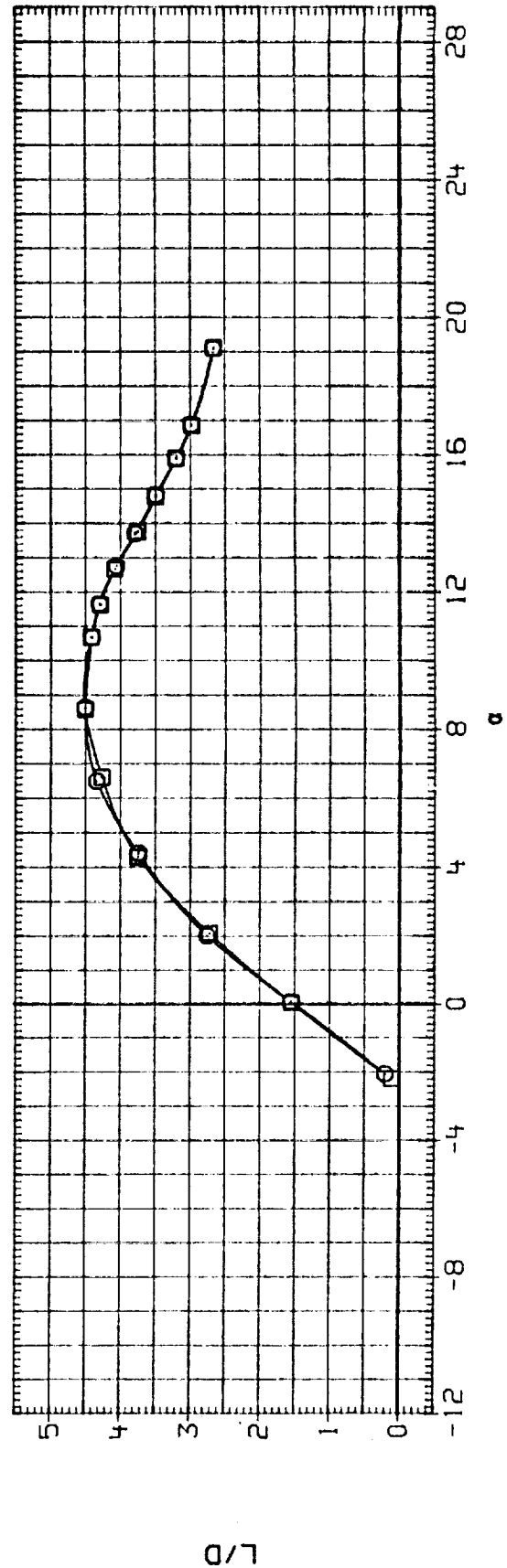
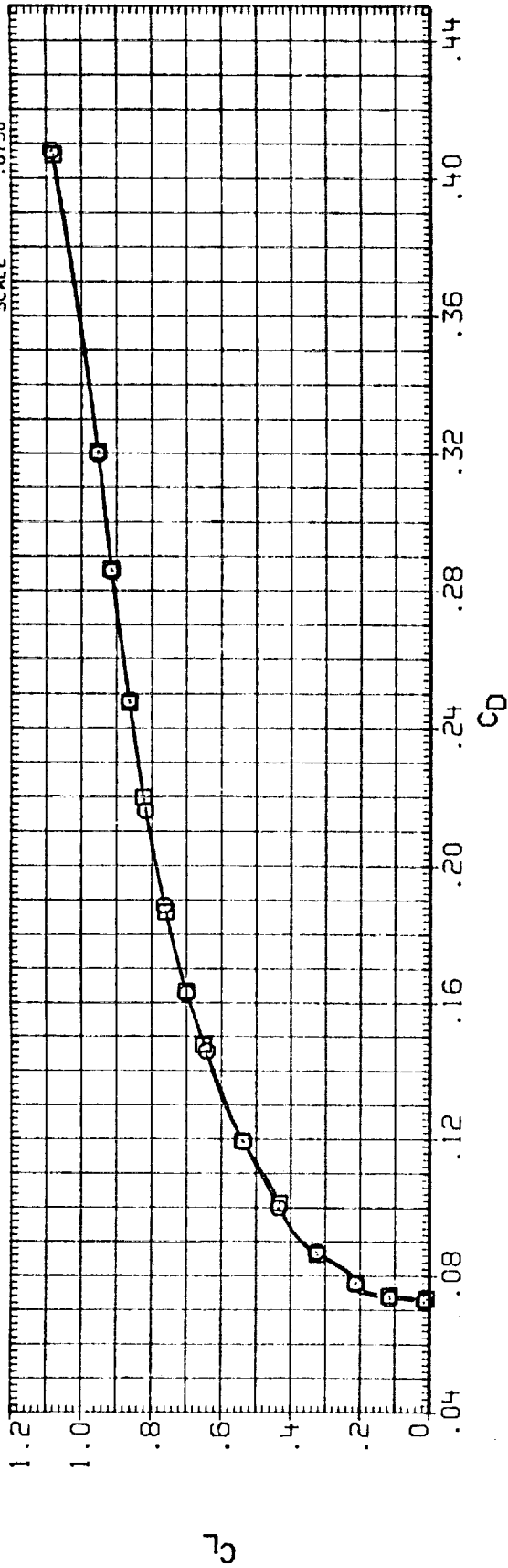


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .60

DATA SET SYMBOL : CONFIGURATION DESCRIPTION
 (RUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK040) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

| ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
|--------|---------|-------|------|-----------------------|
| 10.000 | .000 | 4.500 | .000 | SREF 2690.0000 SO.FT. |
| 10.000 | 2.000 | 4.500 | .000 | LREF 474.6000 INCHES |
| | | | | BREF 936.6800 INCHES |
| | | | | YMPP 1076.7000 IN. X0 |
| | | | | ZMPP .0000 IN. Y0 |
| | | | | ZMPP 375.0000 IN. Z0 |
| | | | | SCALE .0150 |

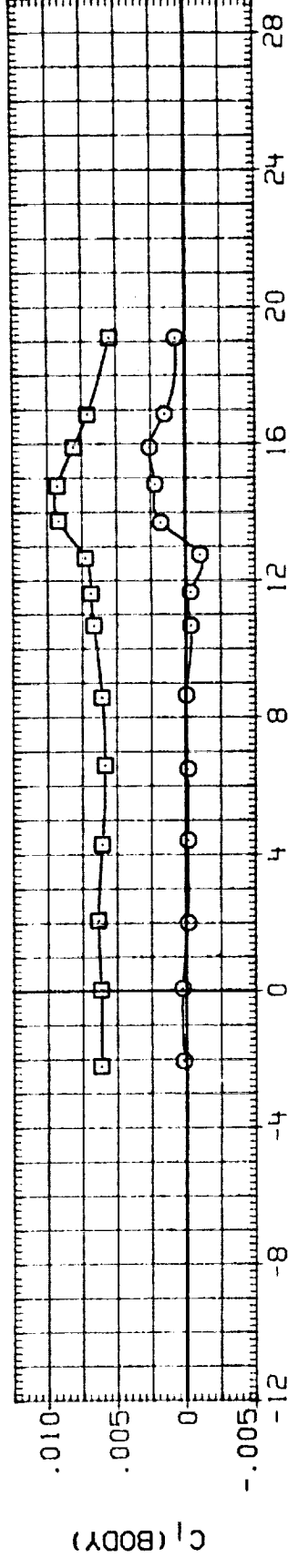
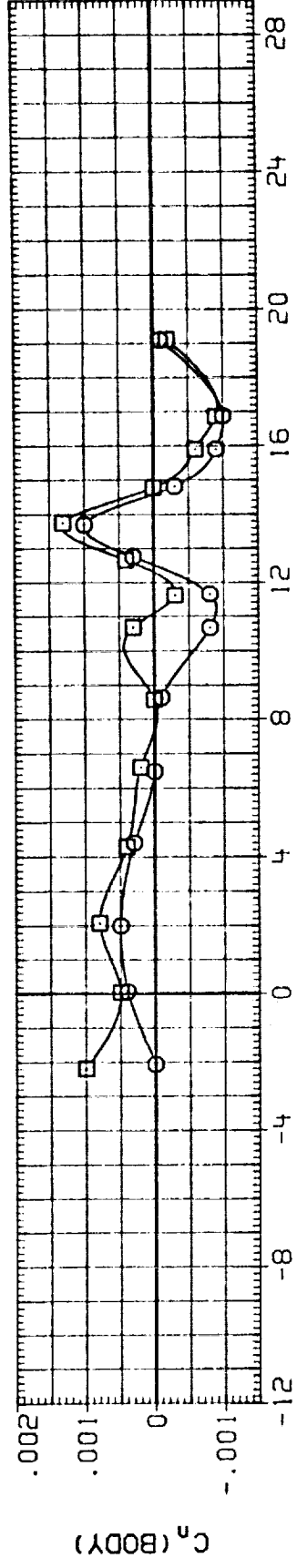
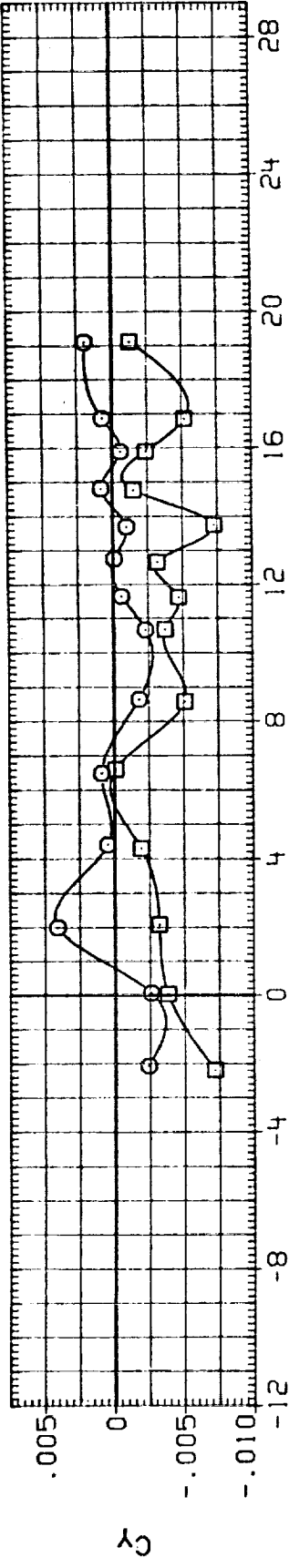


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK036) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK040) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA

10.000 .000 4.500 .000

10.000 2.000 4.500 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

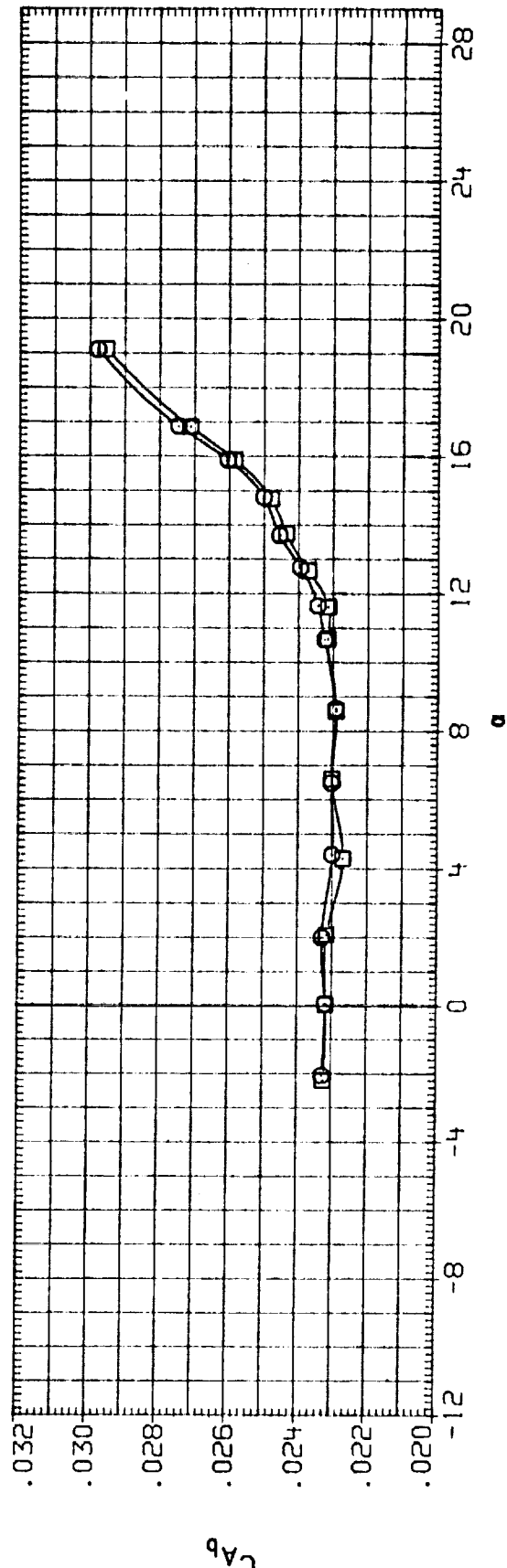
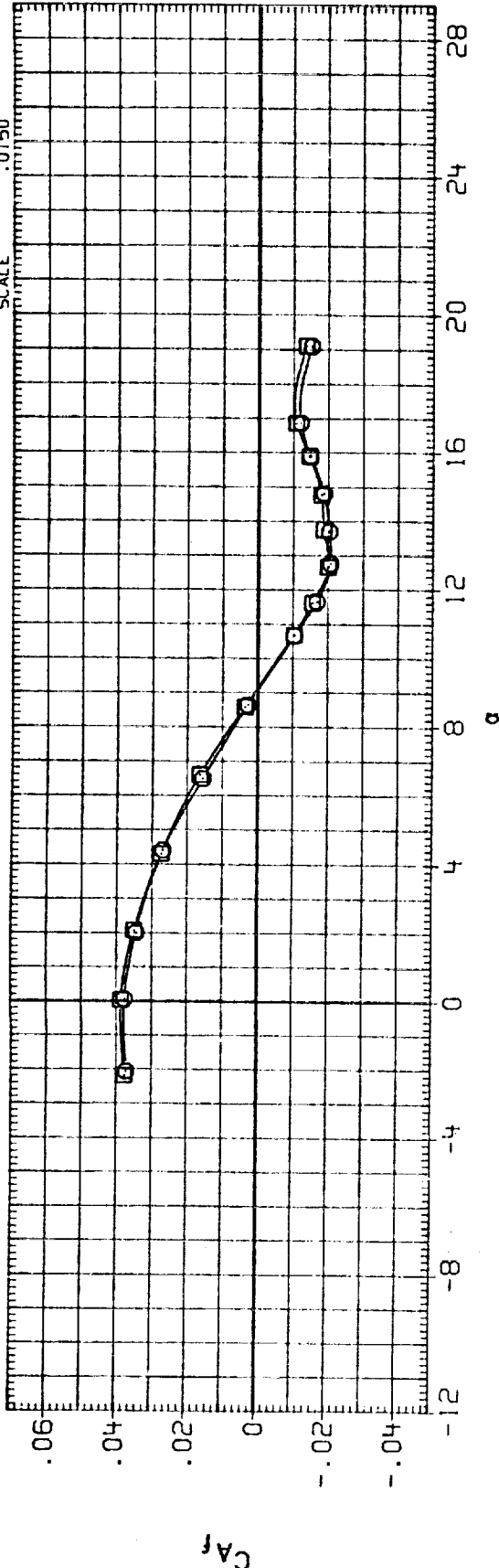


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CUK03B) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 (CUK040) ○ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

ELEVON AILERON RN/L BETA

10.000 .000
 10.000 4.500
 10.000 4.500

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6600 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

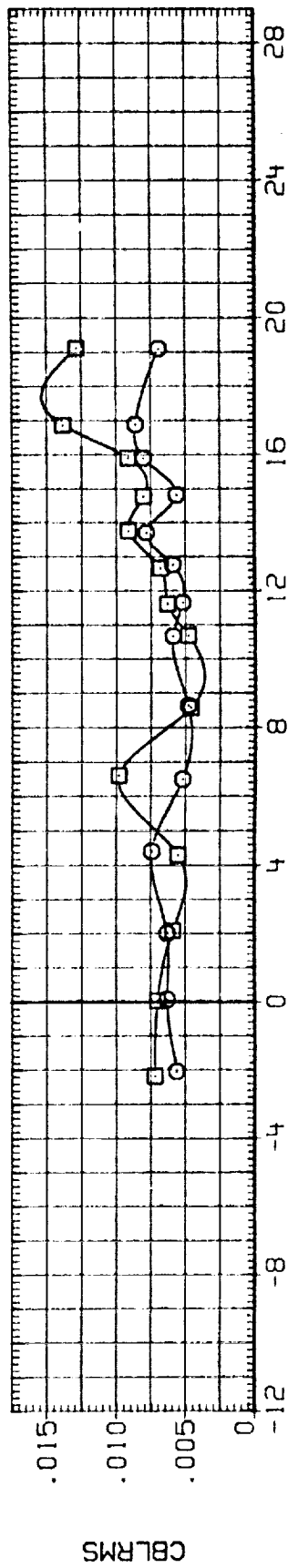
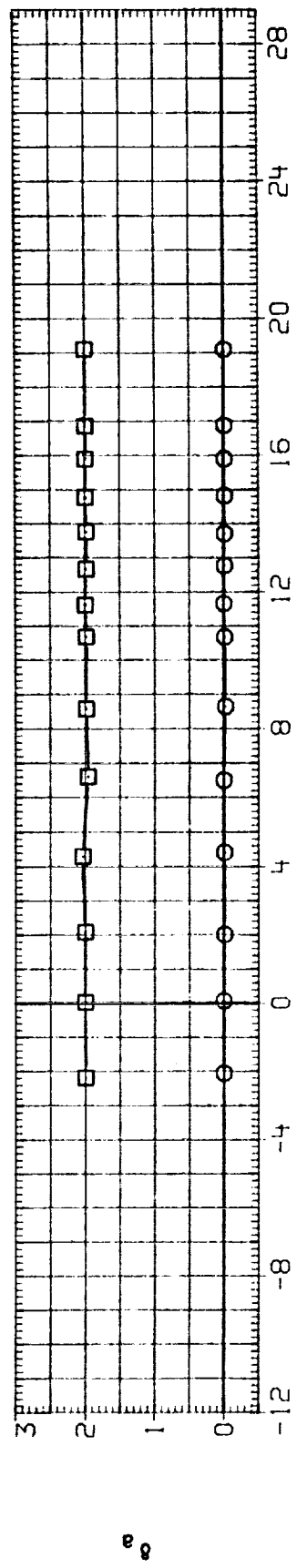
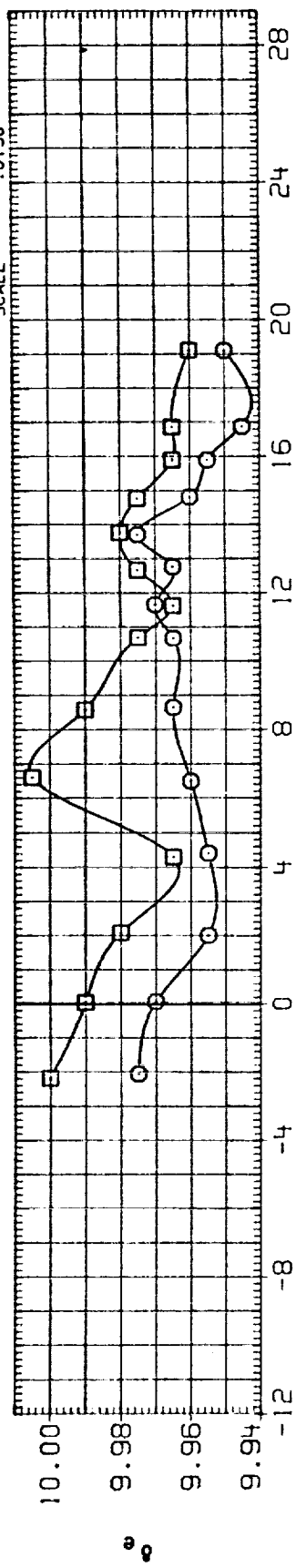


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK036) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK040) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA
 10.000 .000 4.500 .000
 10.000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

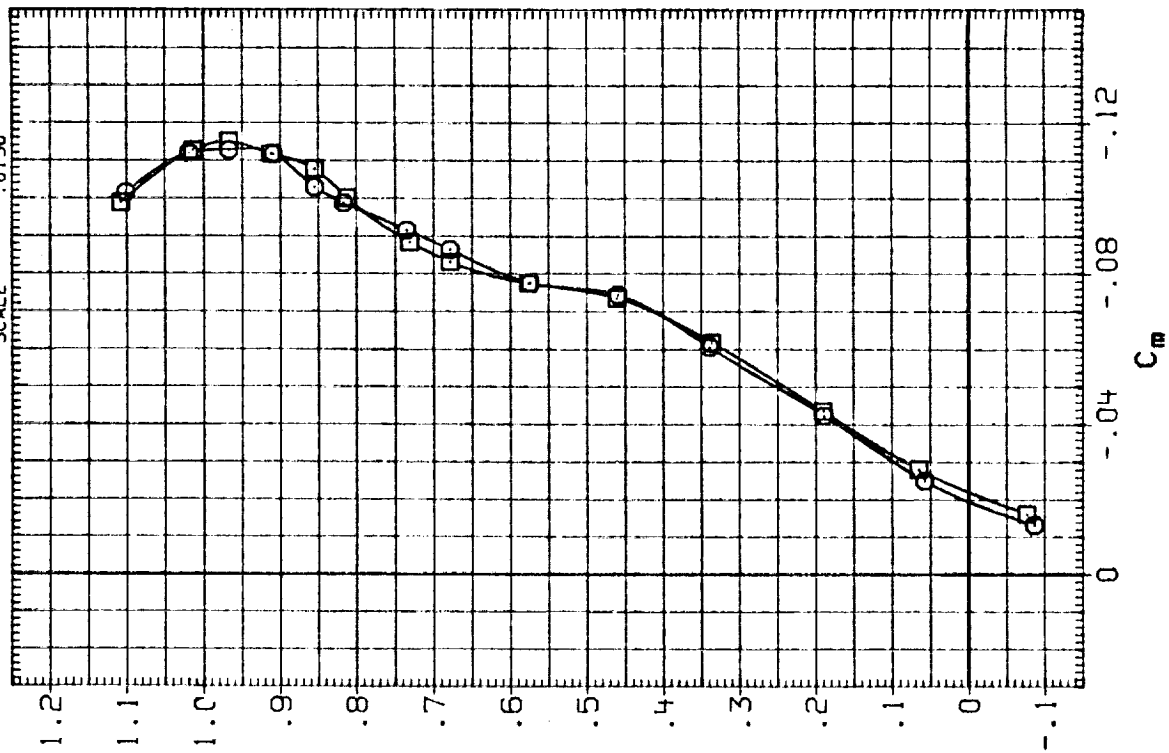
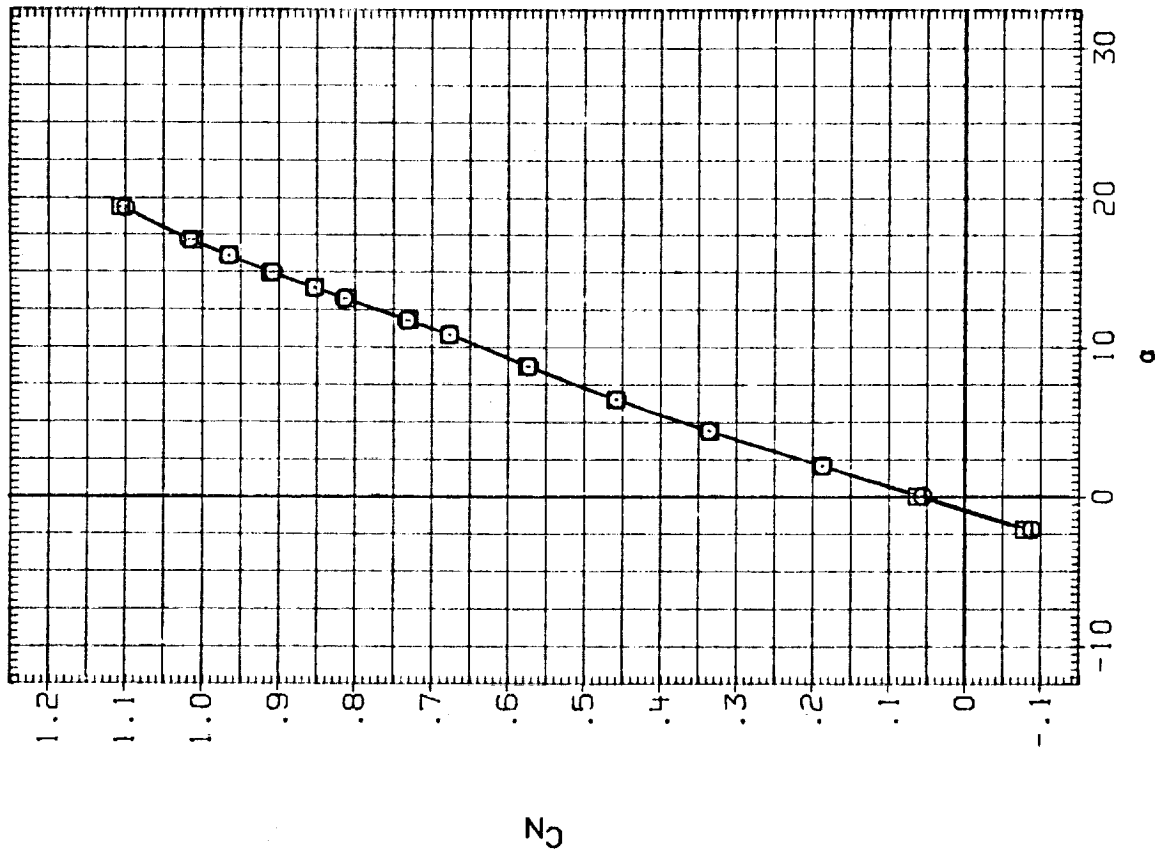


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK040) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA
 10.000 .000 4.500 .000
 10.000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BRFL 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE 0.150

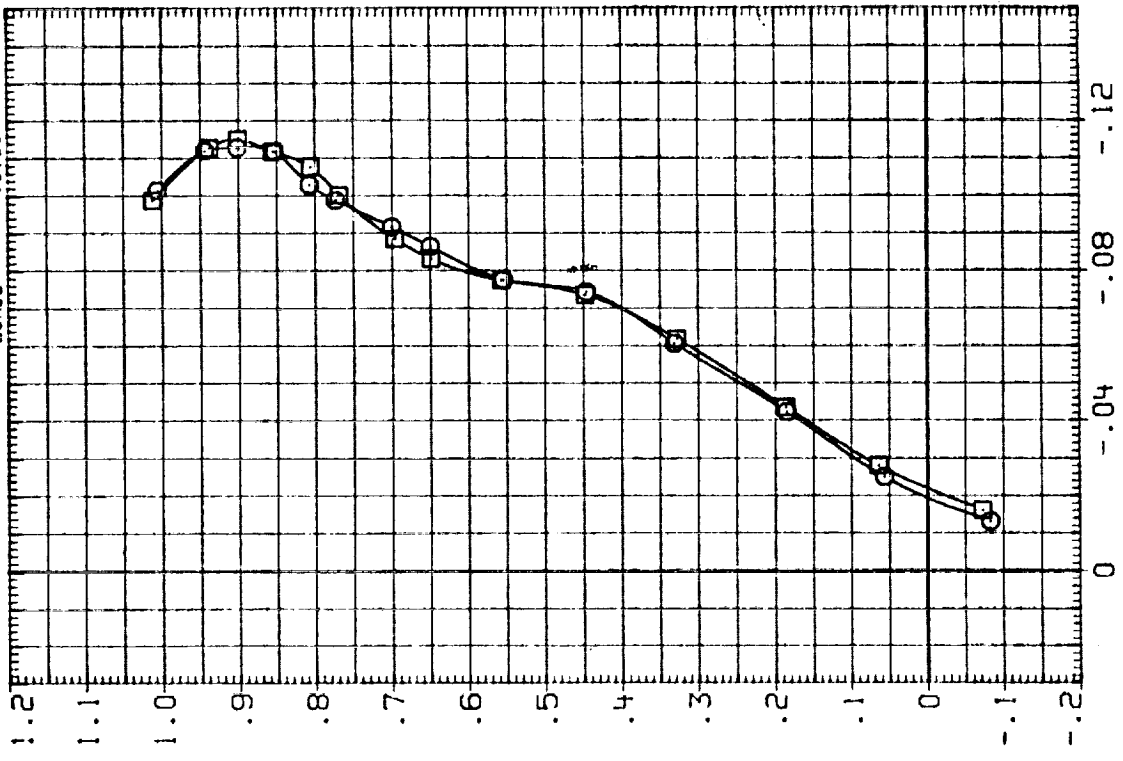
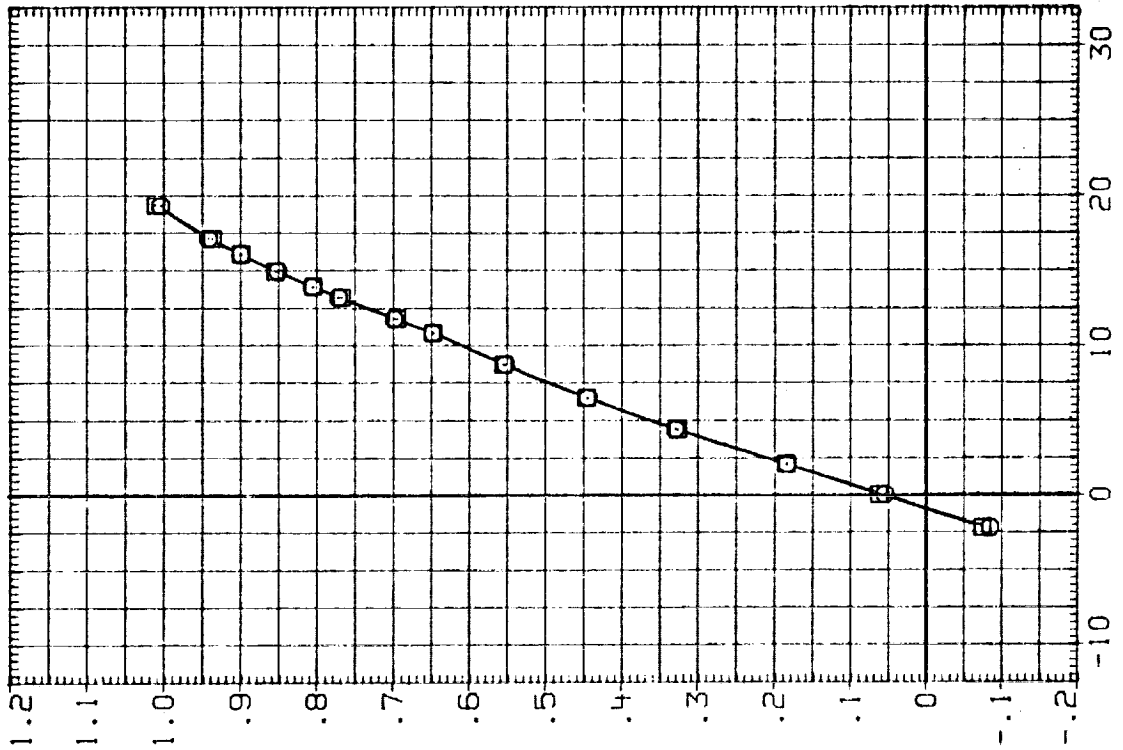


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK040) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON 10.000
 AILERON 2.000
 RN/L 4.500
 BETA .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

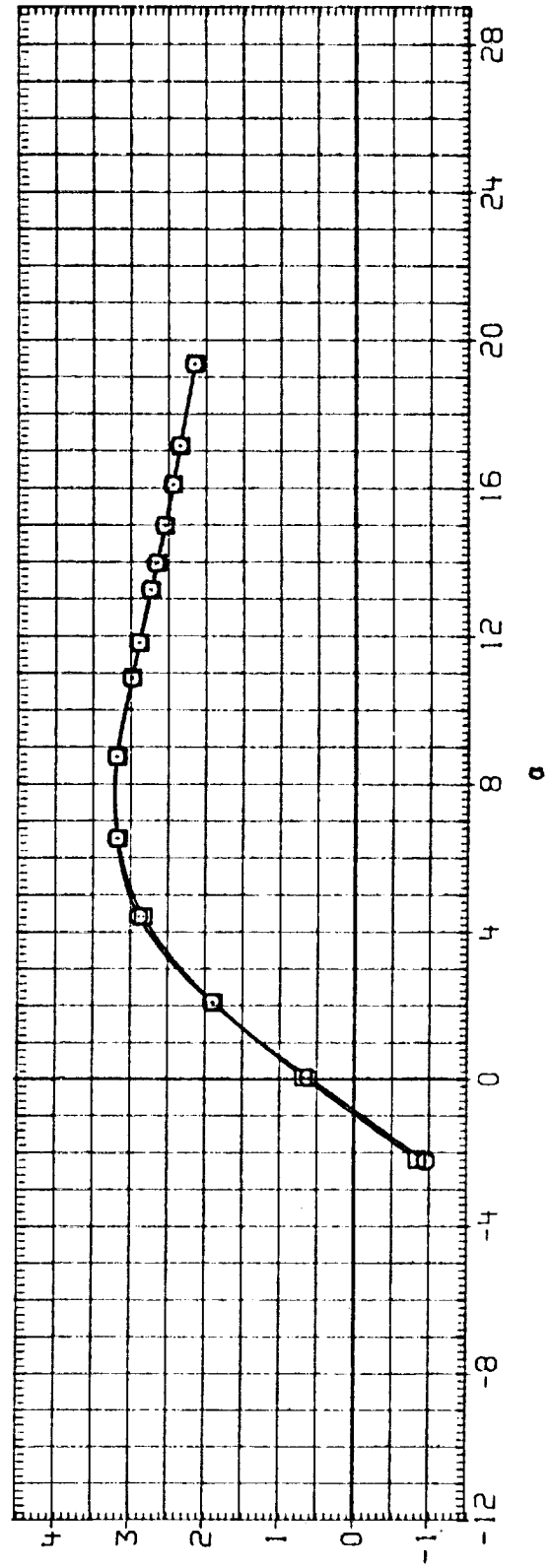
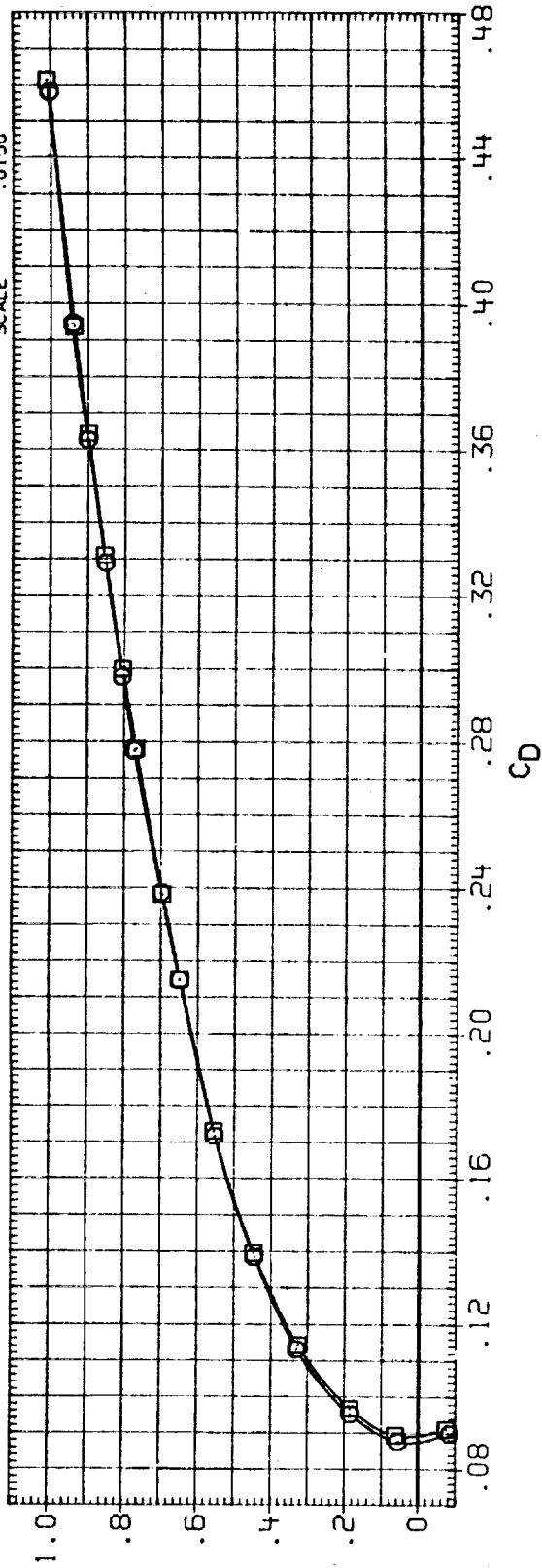


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK036) O LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK040) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

ELEVON ALLRON RN/L BETA

10.000 .000 4.500 .000

10.000 2.000 4.500 .000

REFERENCE INFORMATION

SREF 2690.0000 50.FT. INCHES

LREF 474.8000 INCHES

BREF 936.6800 IN. XO

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

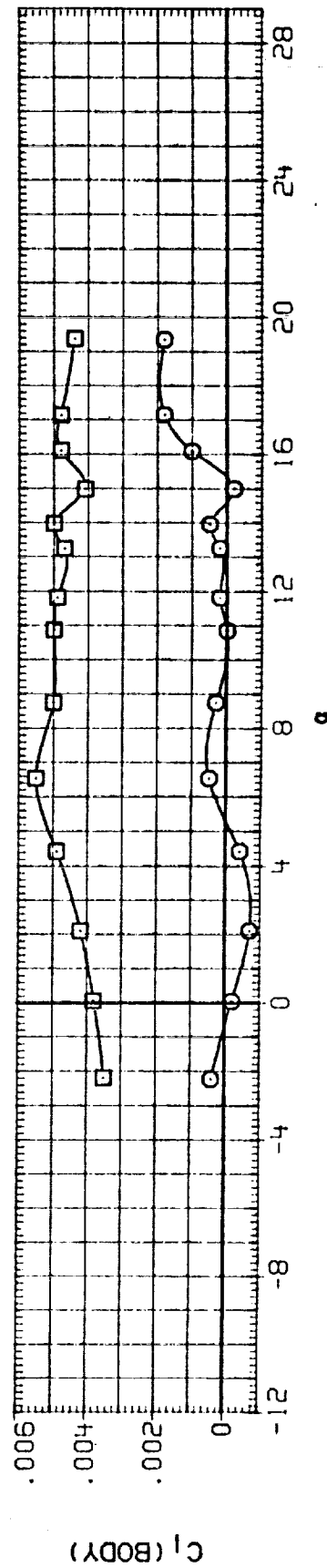
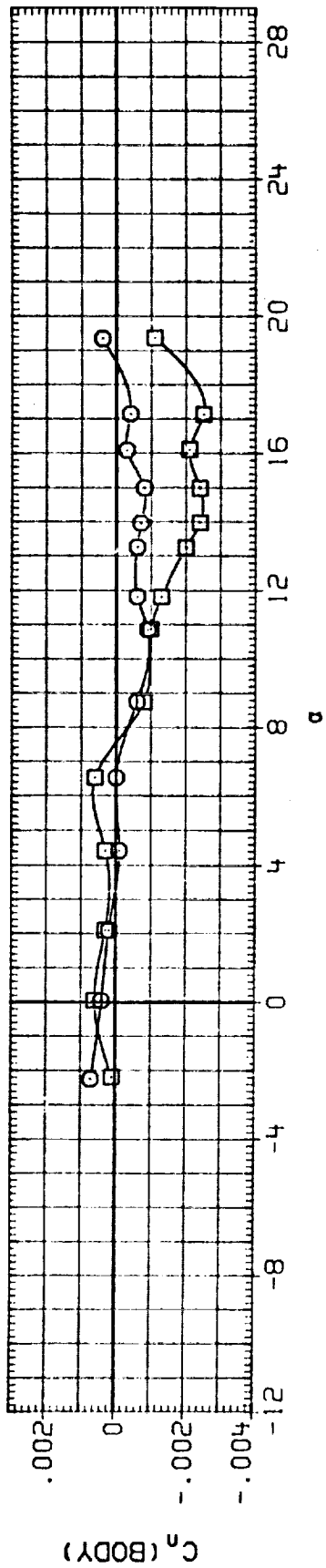
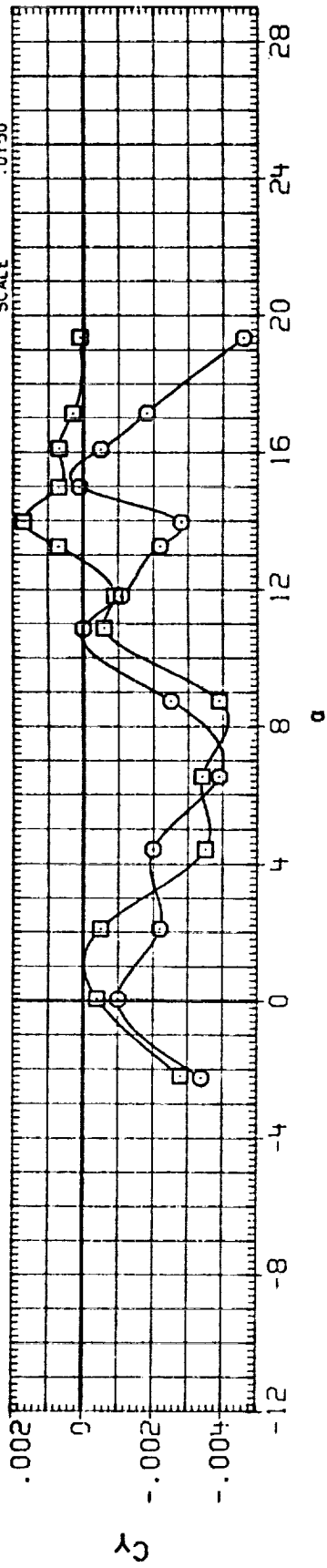


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK036) \square LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK040) \circ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON 10.000
 10.000

AILERON 2.000
 .000

RN/L 4.500
 4.500

BETA .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

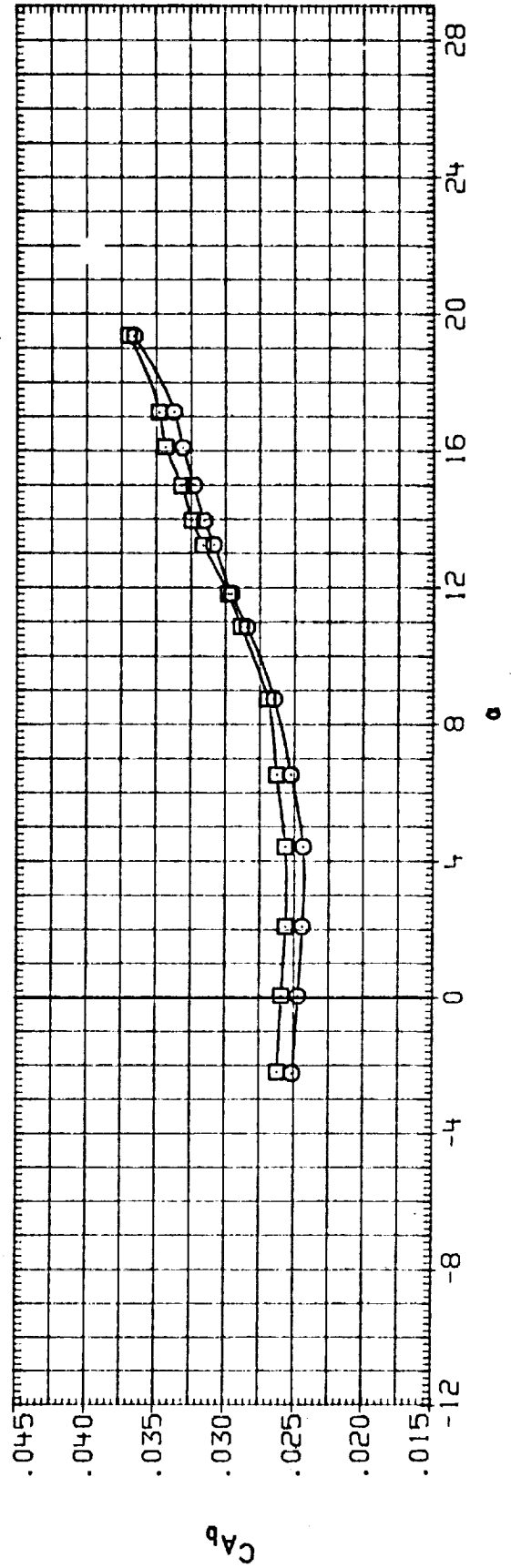
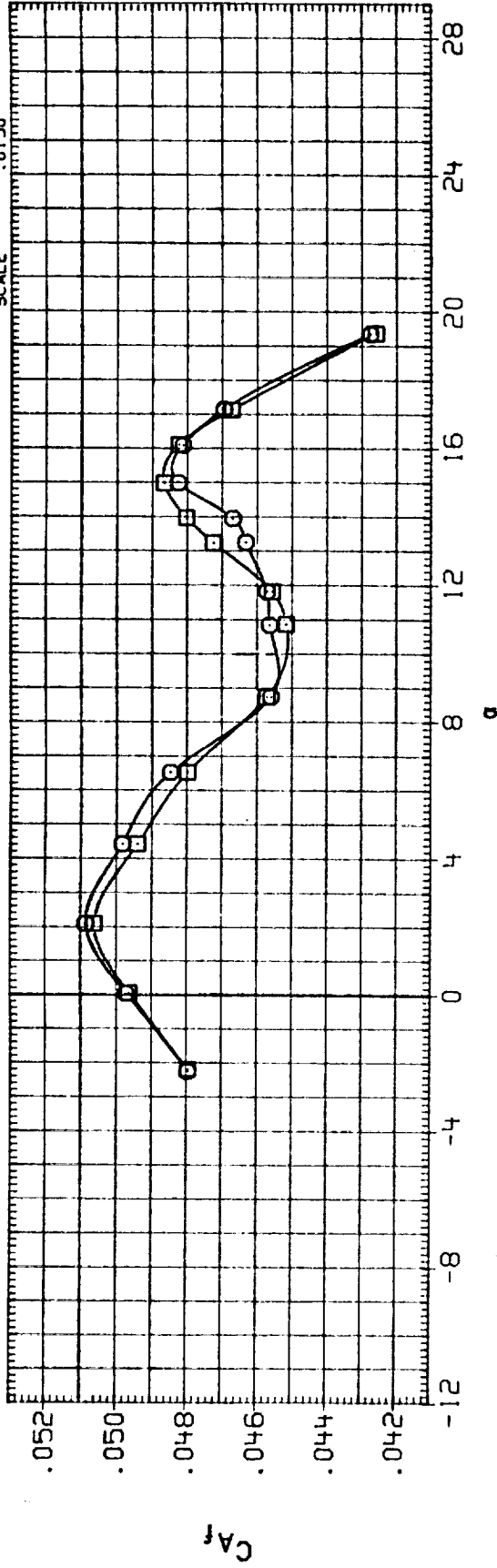


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CUK036) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK040) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA
 10.000 .000 4.500 .000
 10.000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

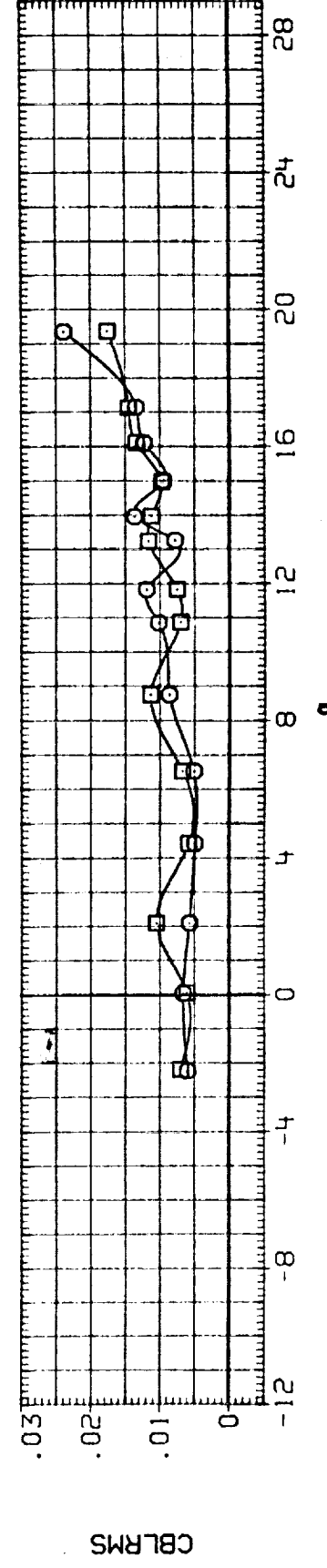
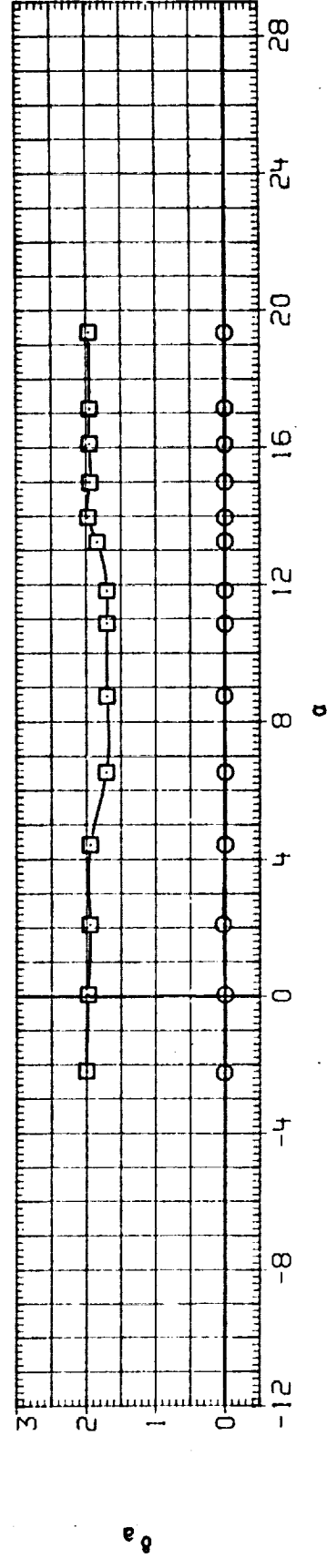
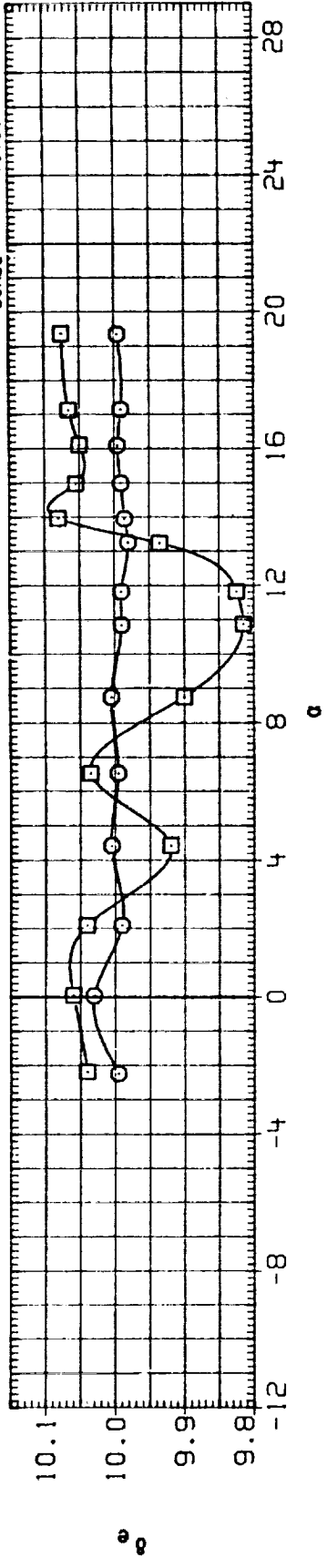




FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK0361)  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK040)  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON 10.000
 AILERON 2.000
 RN/L 4.500
 BETA .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

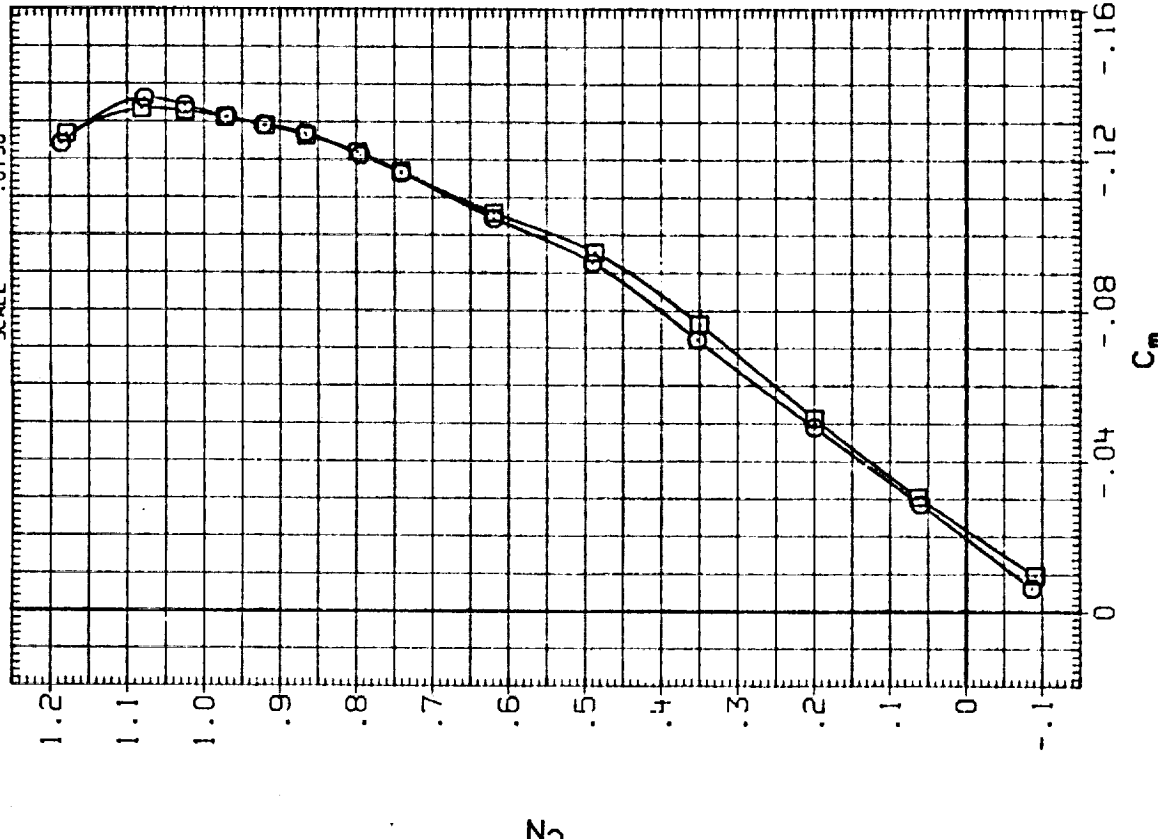
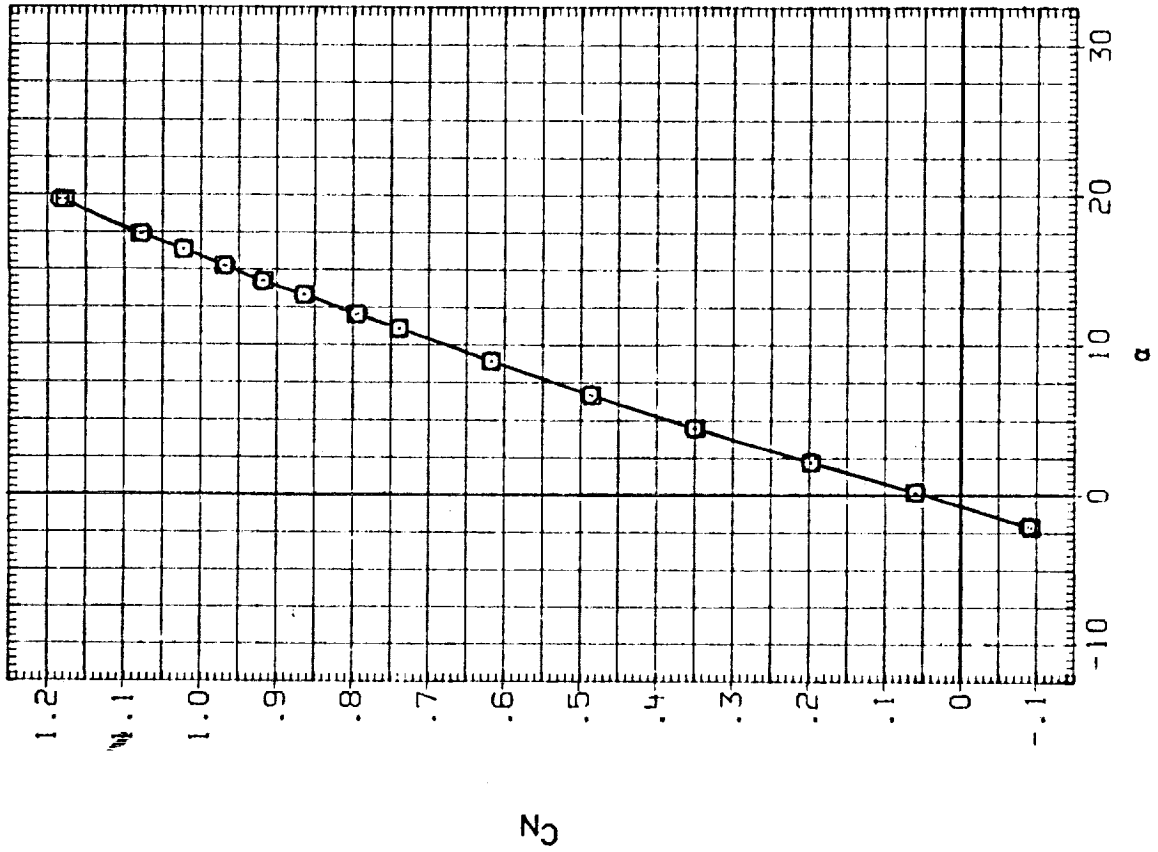


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK036) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK040) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA
 10.000 .000 4.500 .000
 10.000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BRFL 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

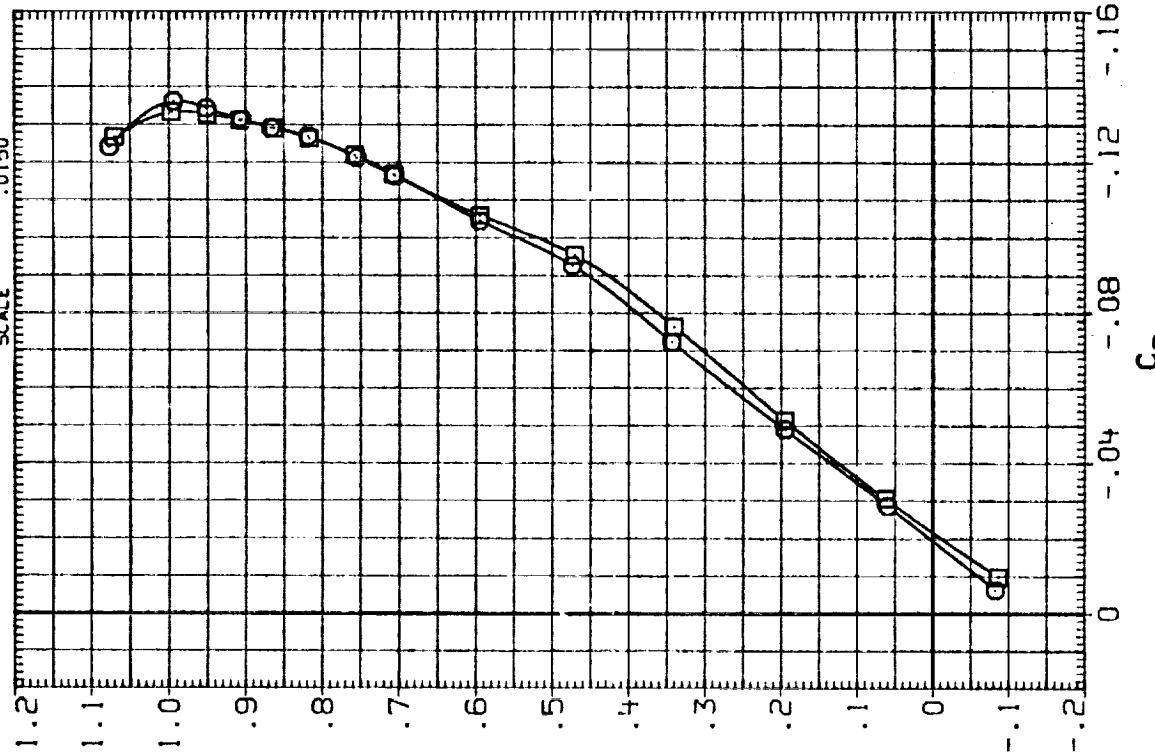
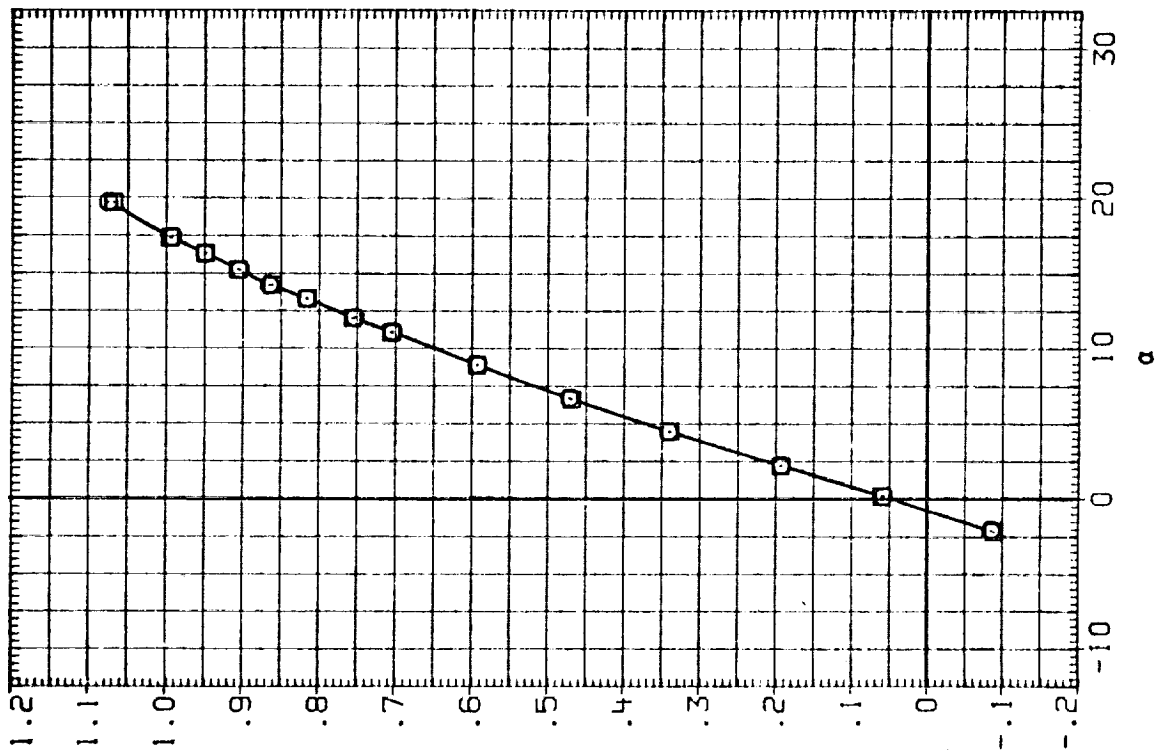


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .95

| | | | | | | |
|-----------------|--|--------|---------|-------|------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
| (RUK036) | LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 10.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK040) | LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 10.000 | 2.000 | 4.500 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

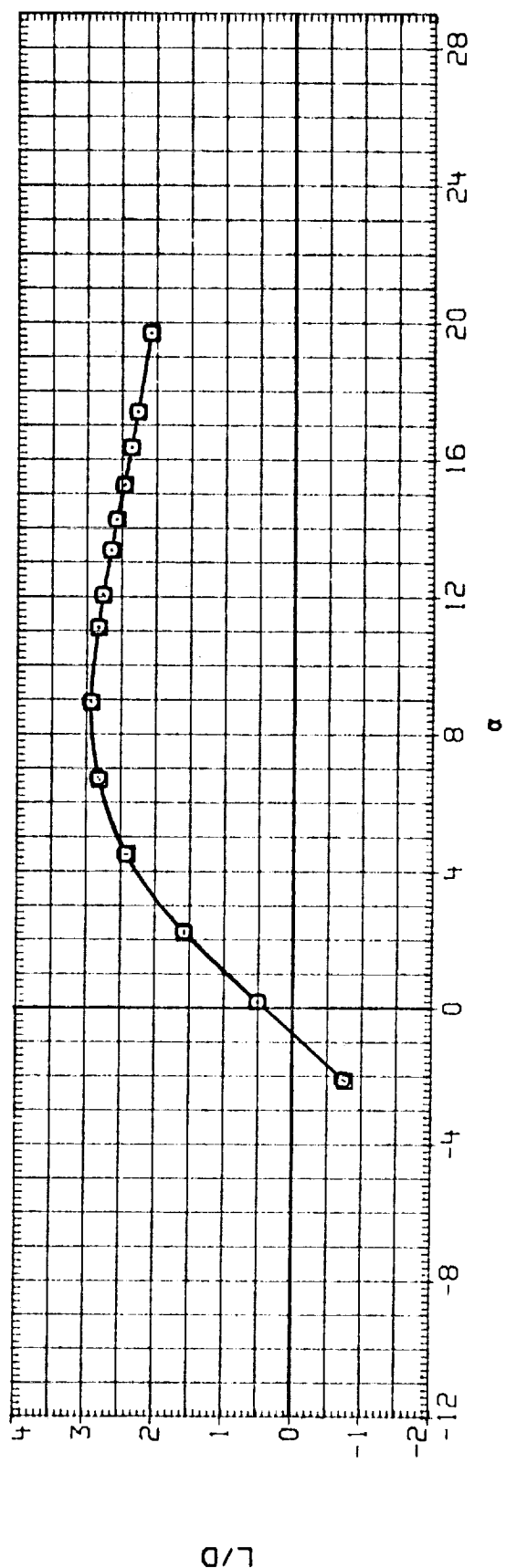
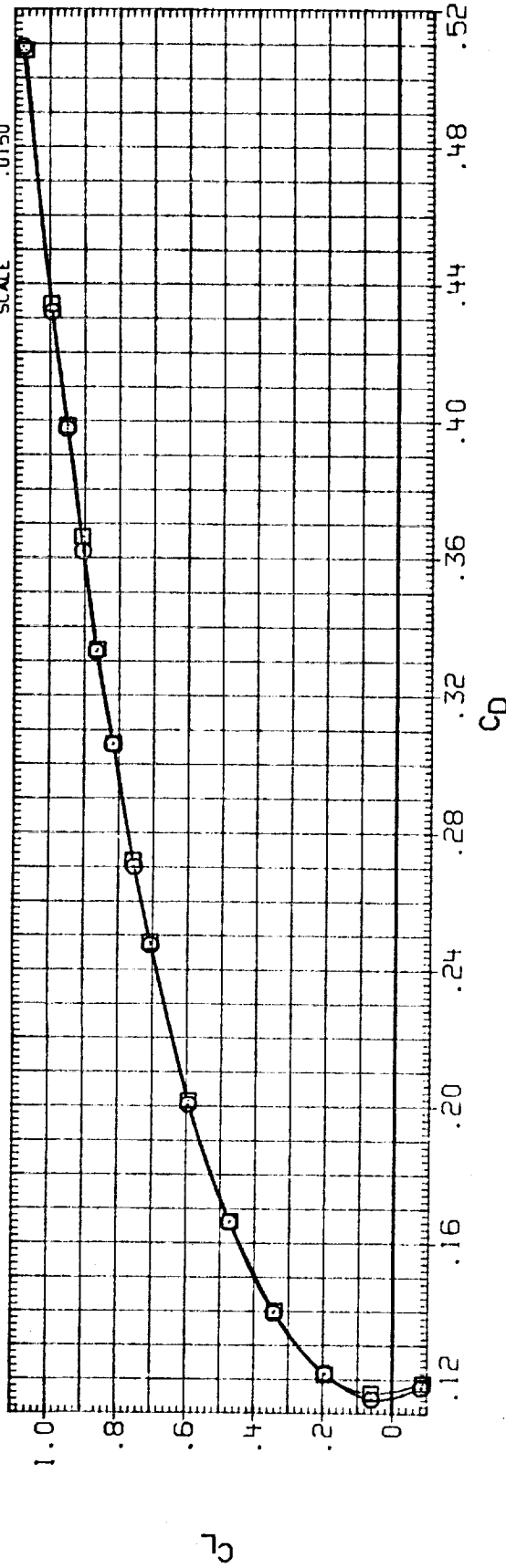


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK036) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 (RUK040) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

ELEVON AILERON RN/L BETA
 10.000 .000 4.500 .000
 10.000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XPRP 1076.7000 IN. XO
 YPRP .0000 IN. YO
 ZPRP 375.0000 IN. ZO
 SCALE .0150

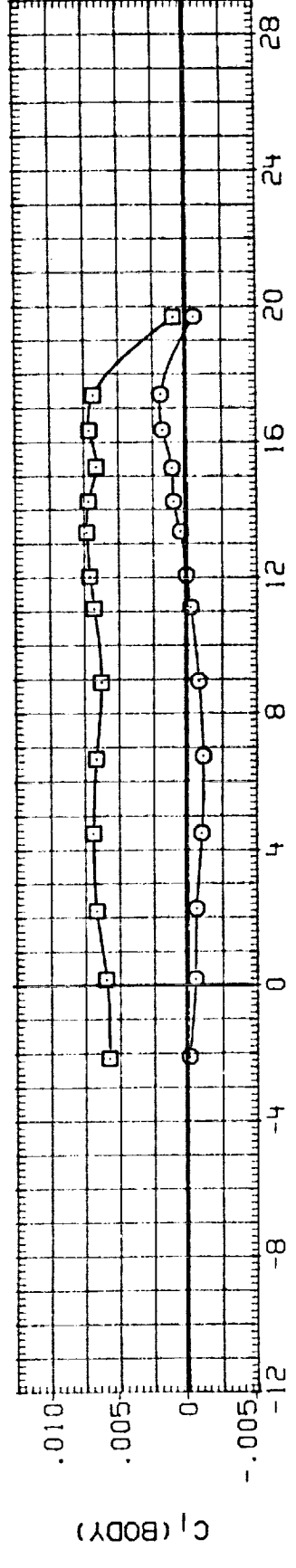
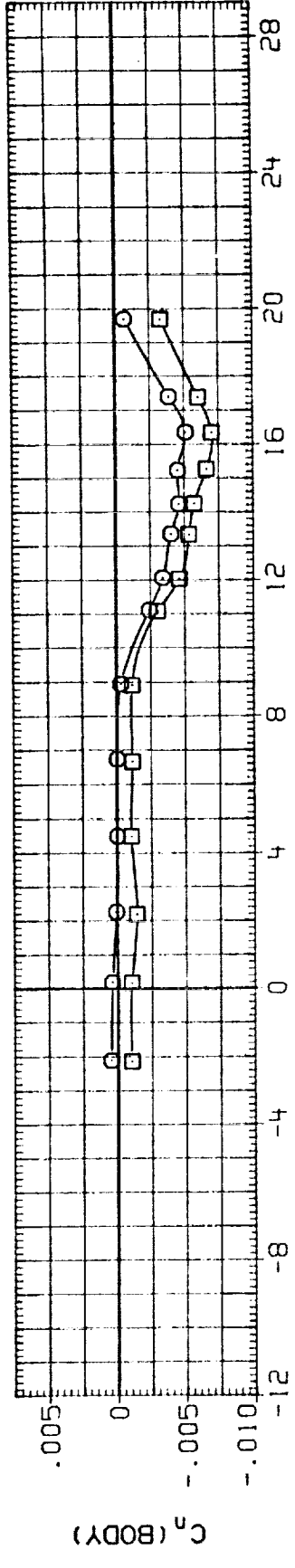
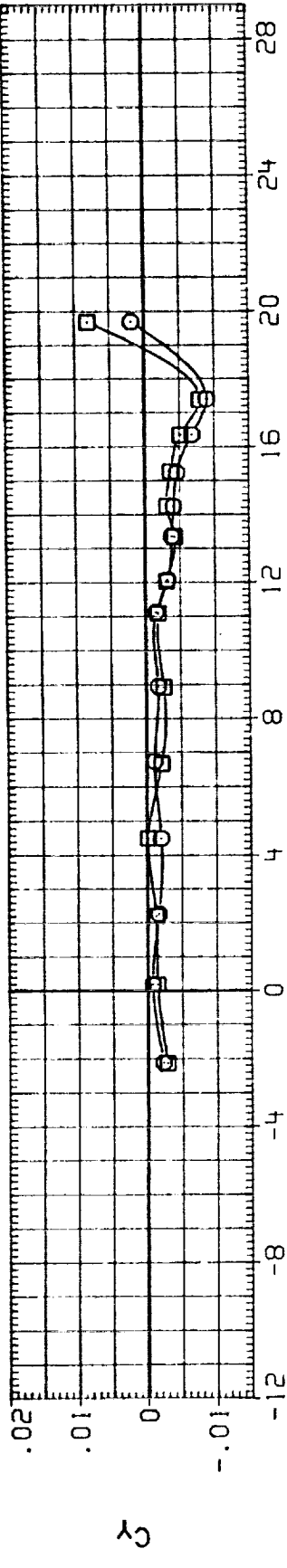


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .95

| | | | | | | |
|-----------------|--|--------|---------|-------|------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
| (CUK036) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK040) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 10.000 | 2.000 | 4.500 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRRP 1076.7000 IN. XO |
| | | | | | | YMRRP .0000 IN. YO |
| | | | | | | ZMRRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

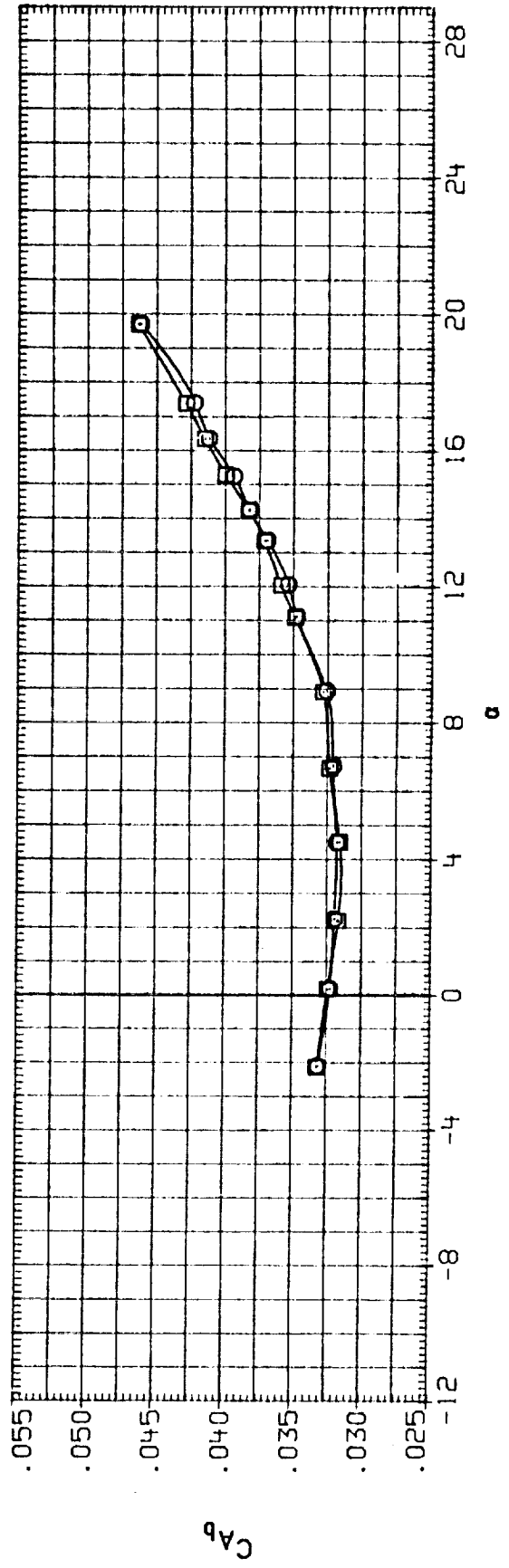
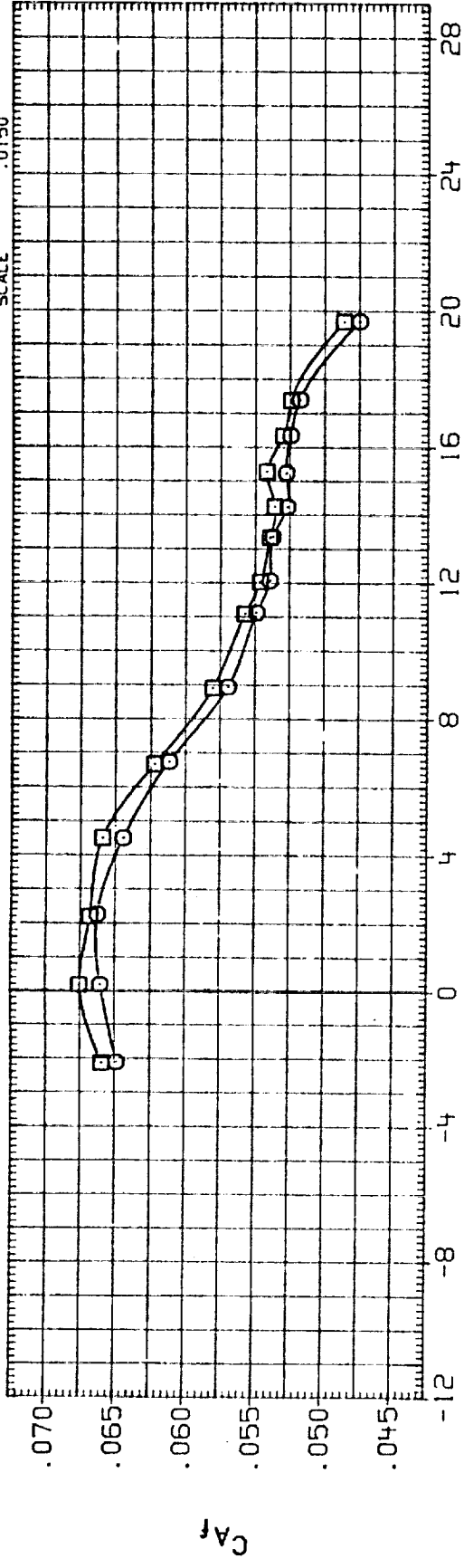


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK040) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA REFERENCE INFORMATION
 10.000 .000 SREF 2690.0000 SQ.FT.
 10.000 2.000 LREF 474.8000 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

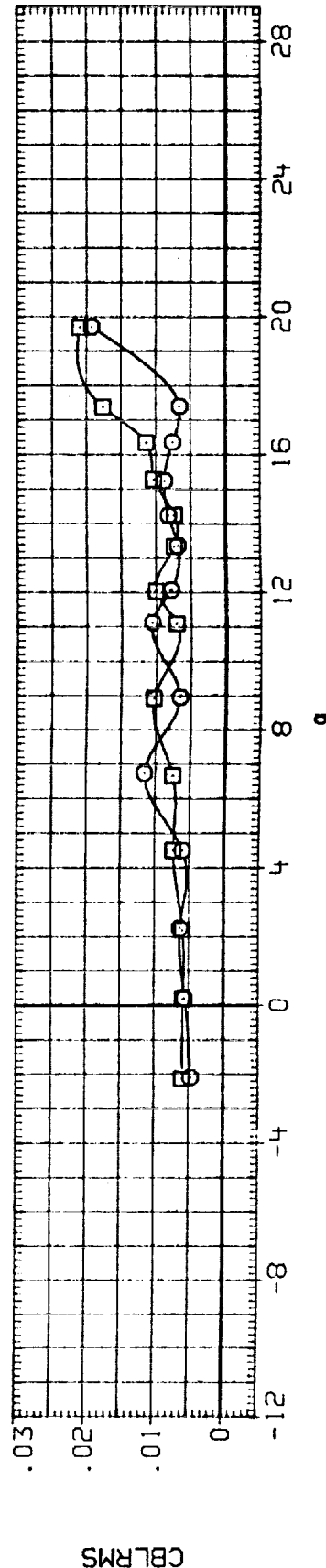
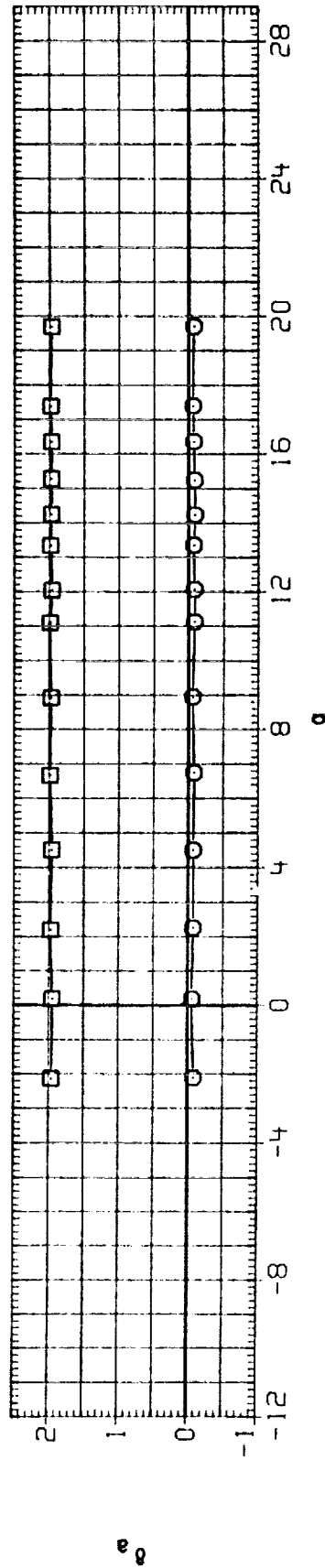
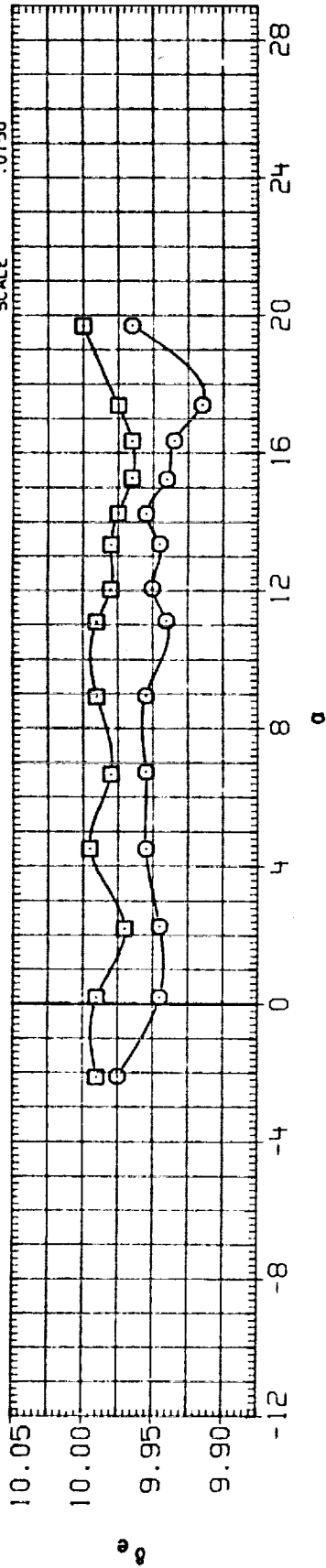


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK036) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK040) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA

10.000 .000 4.500 .000

10.000 2.000 4.500 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

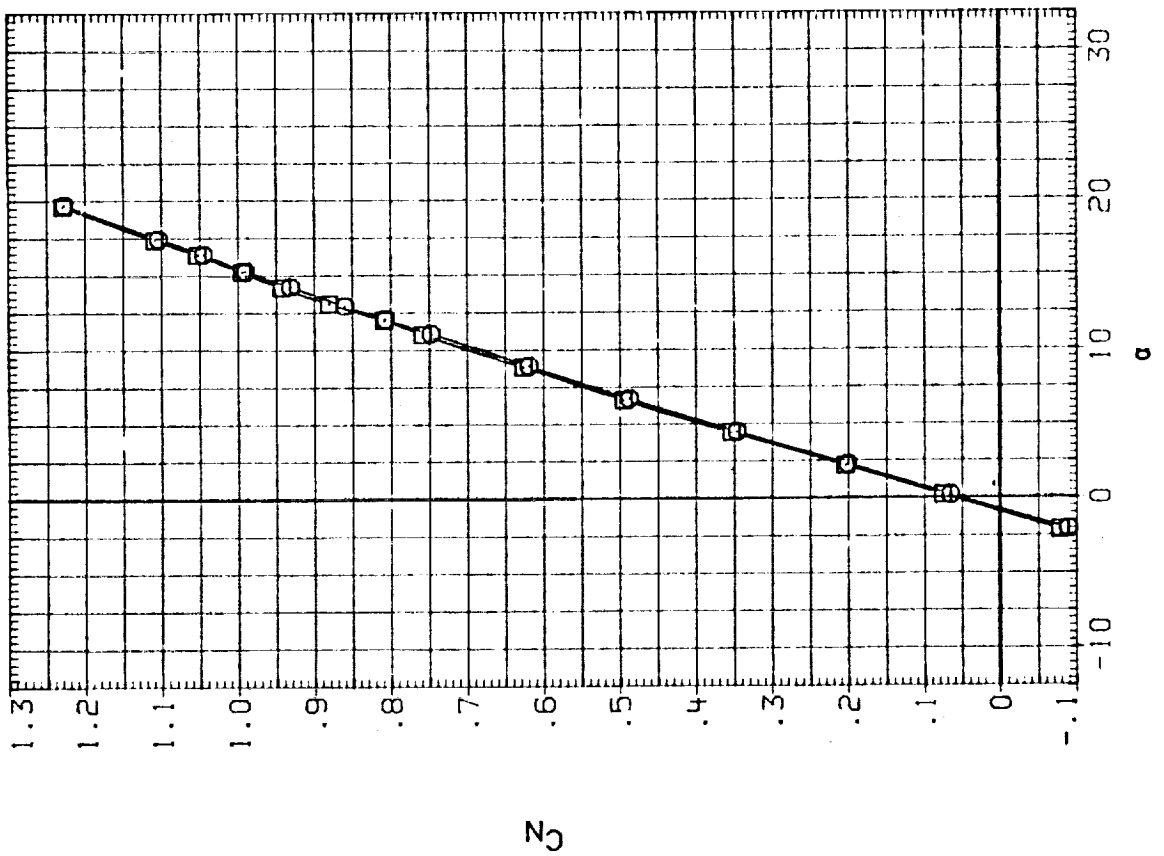
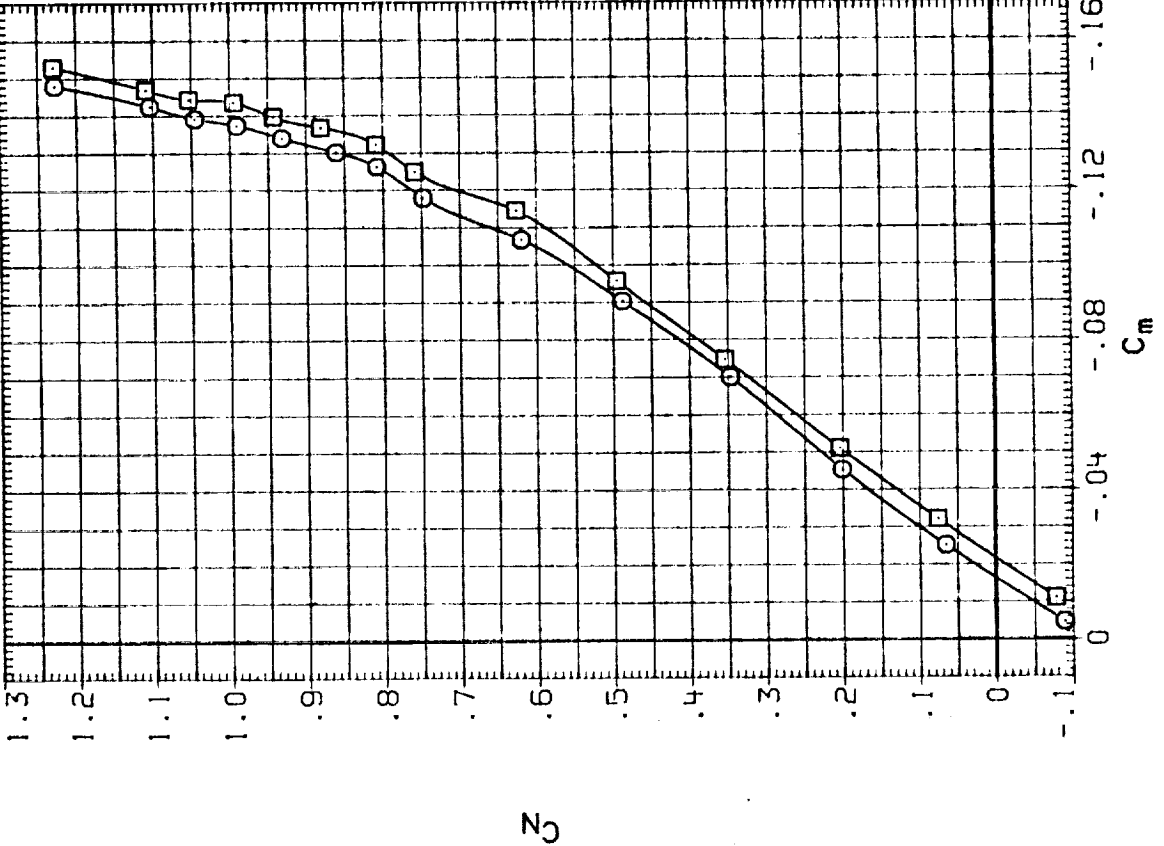


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK036) ○ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)
 (RUK040) □ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA
 10.000 .000 4.500 .000
 10.000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

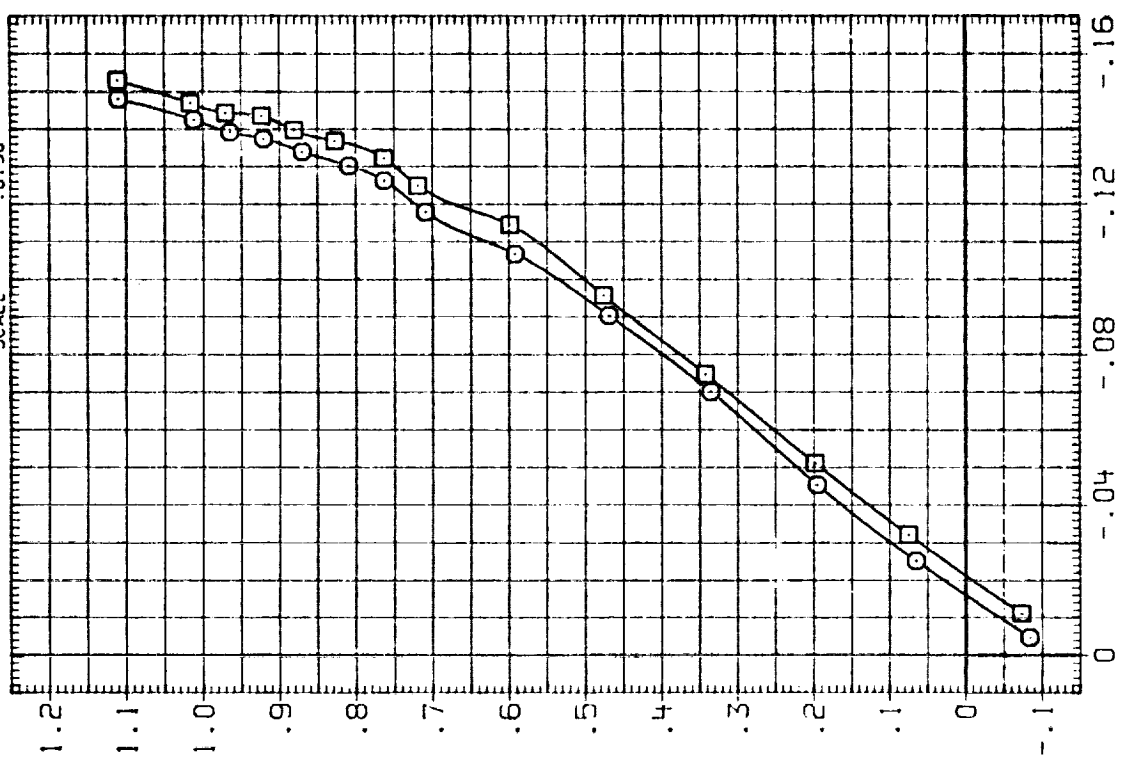
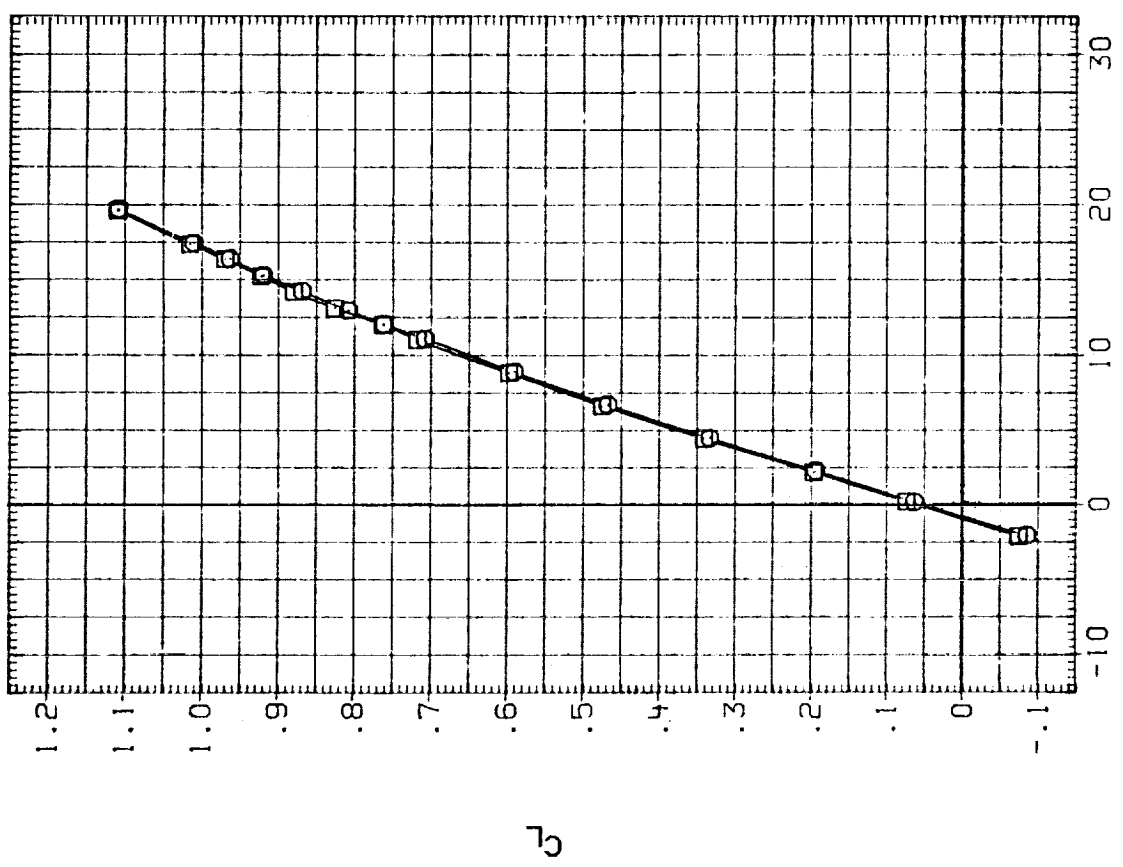


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .98

| | | | | | | |
|-----------------|--|--------|---------|-------|------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK040) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 2.000 | 4.500 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

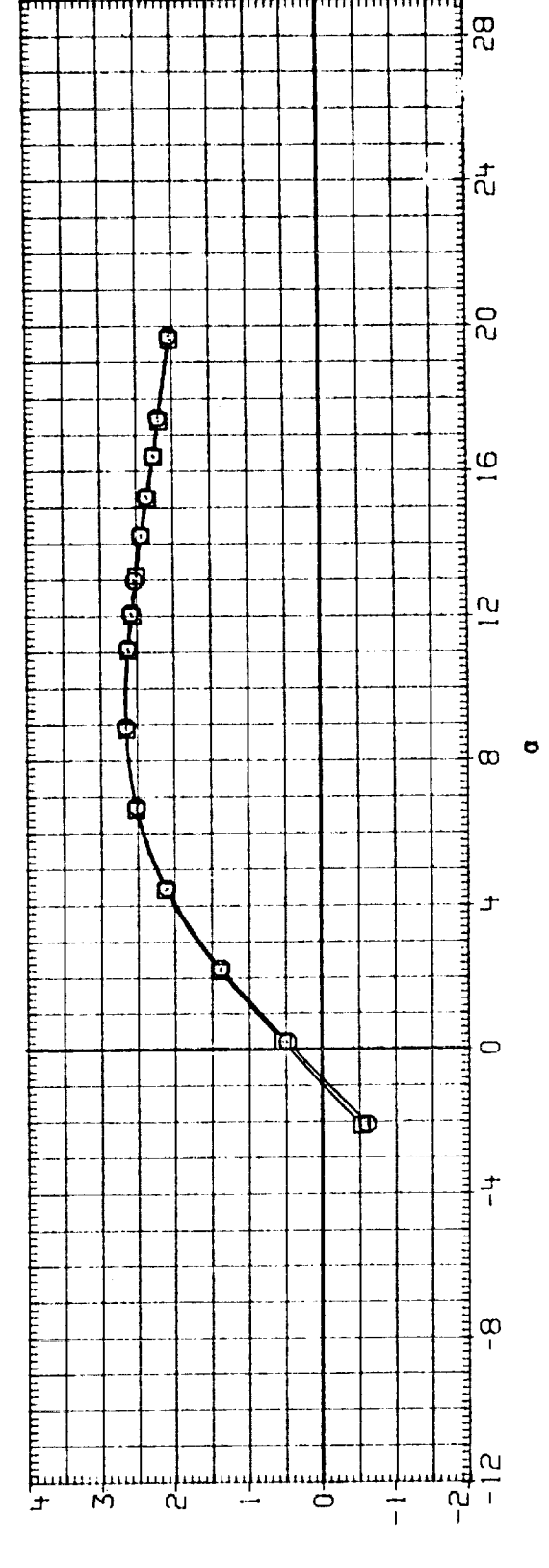
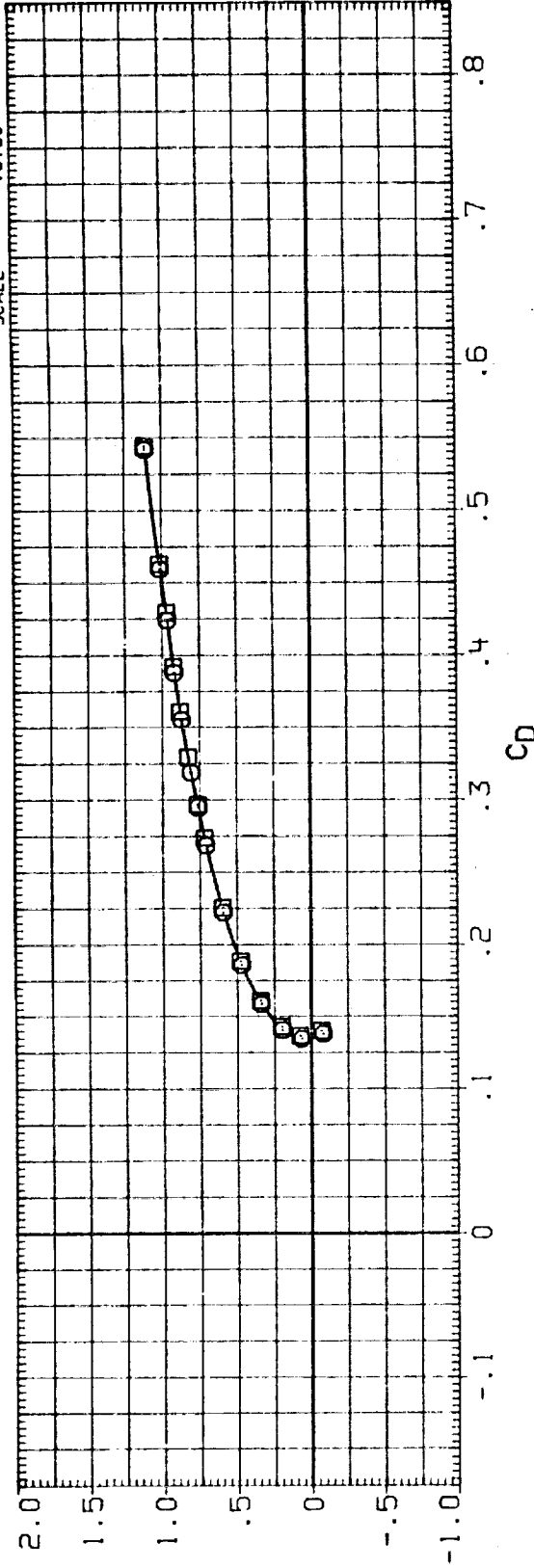


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .98

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
|-----------------|--|--------|---------|-------|------|------------------------|
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | SREF 2690.0000 SQ. FT. |
| (RUK040) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 2.000 | 4.500 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

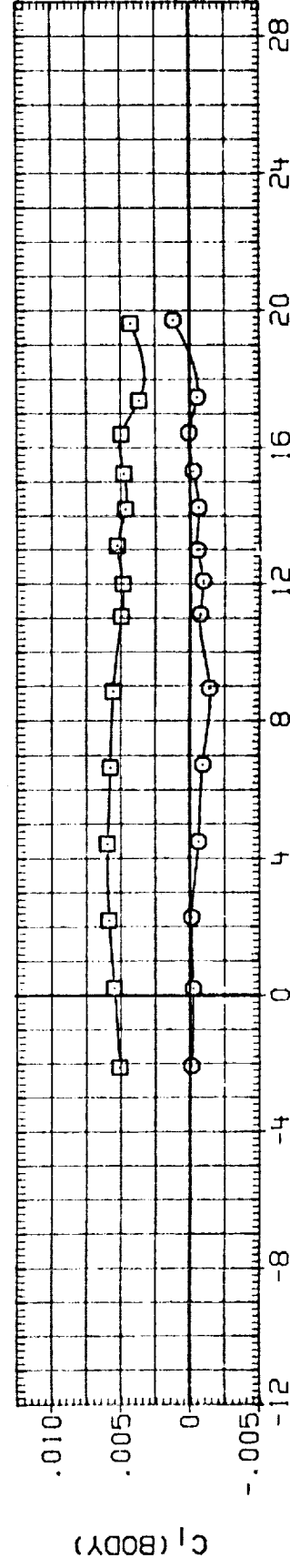
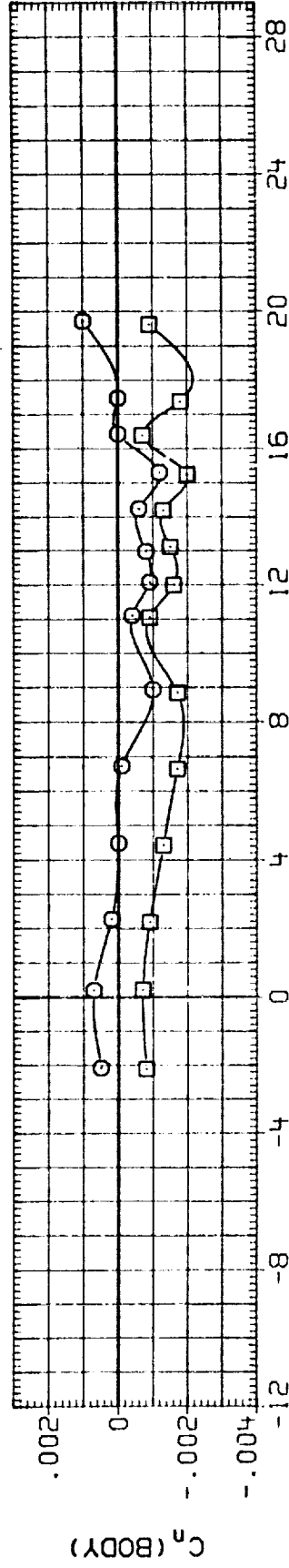
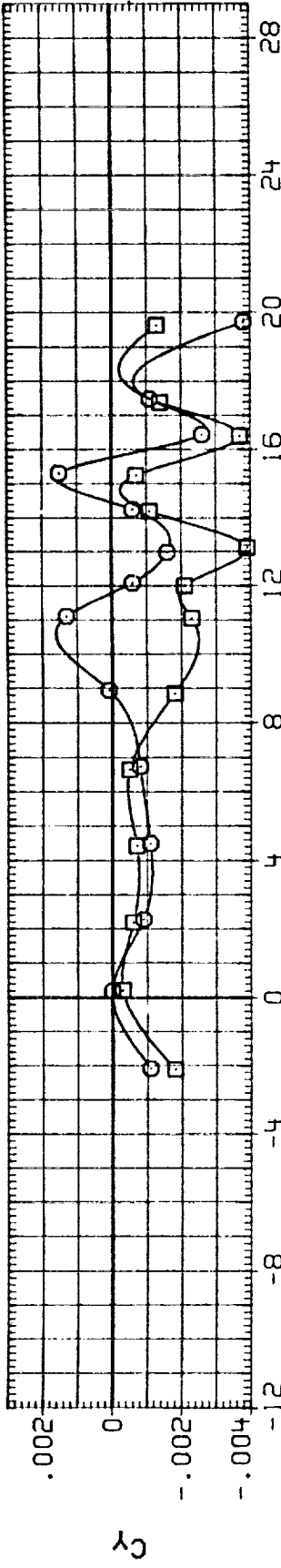


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CJ036) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CJ040) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA
 10.000 .000 4.500 .000
 10.000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

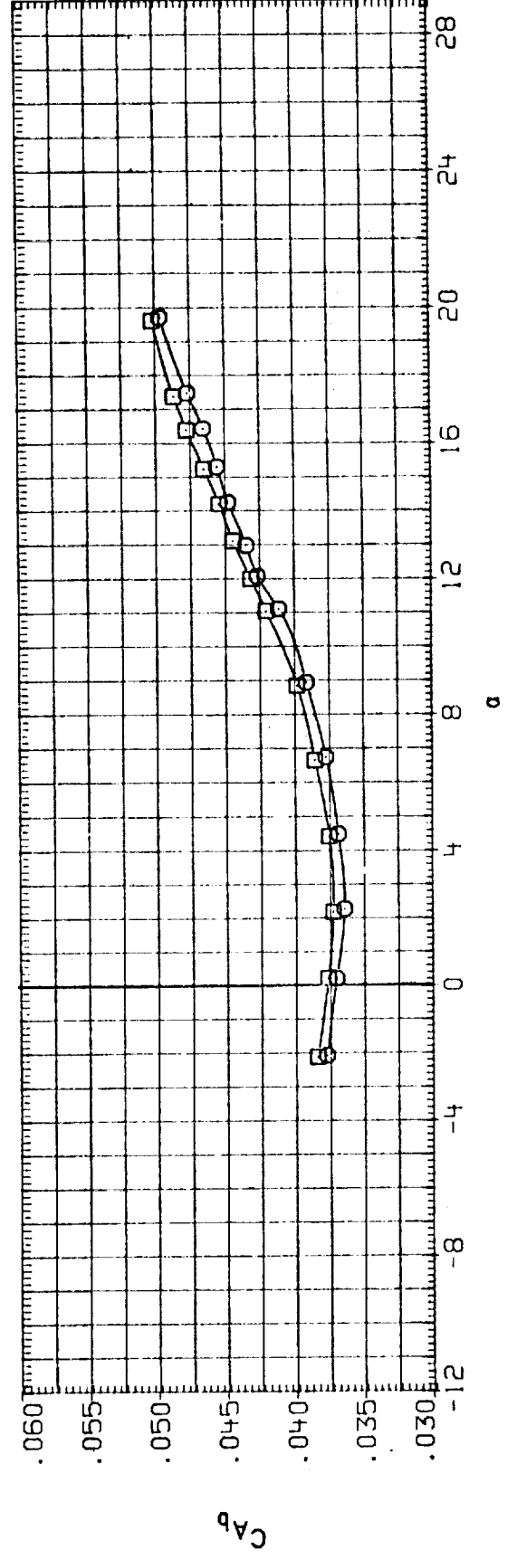
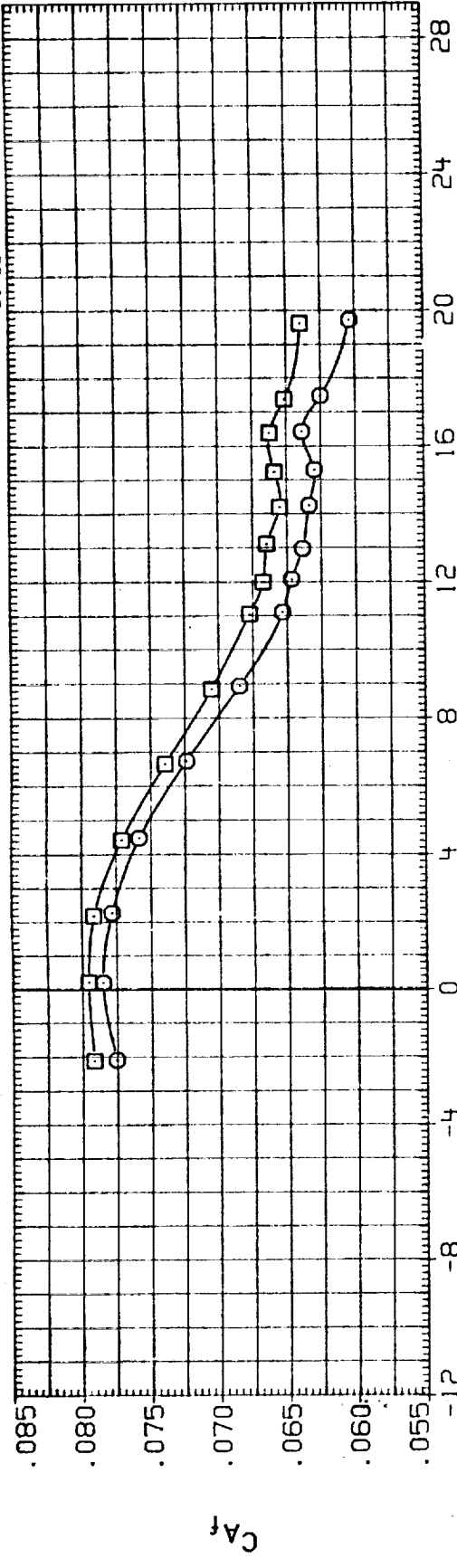


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CUK036) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK040) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA
 10.000 .000 4.500 .000
 10.000 2.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 956.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

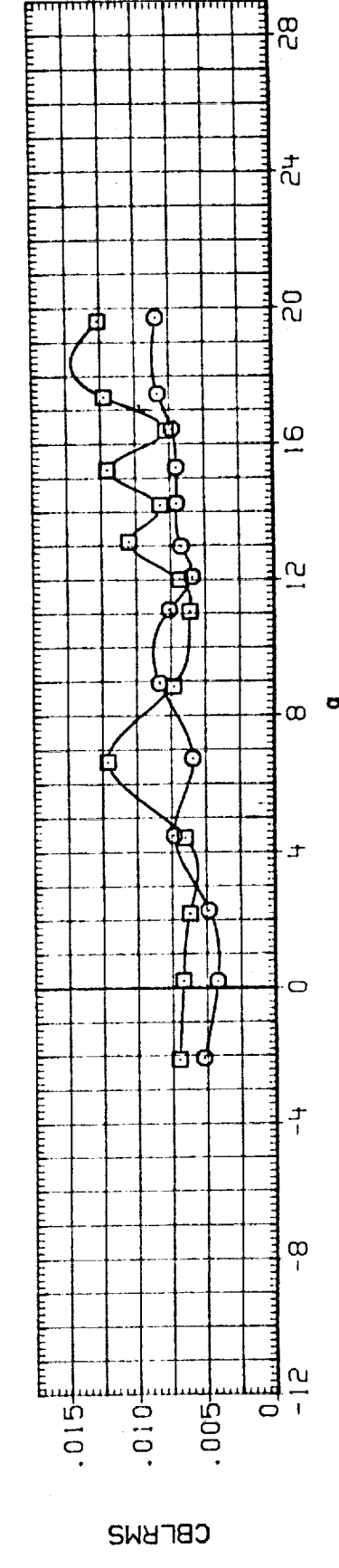
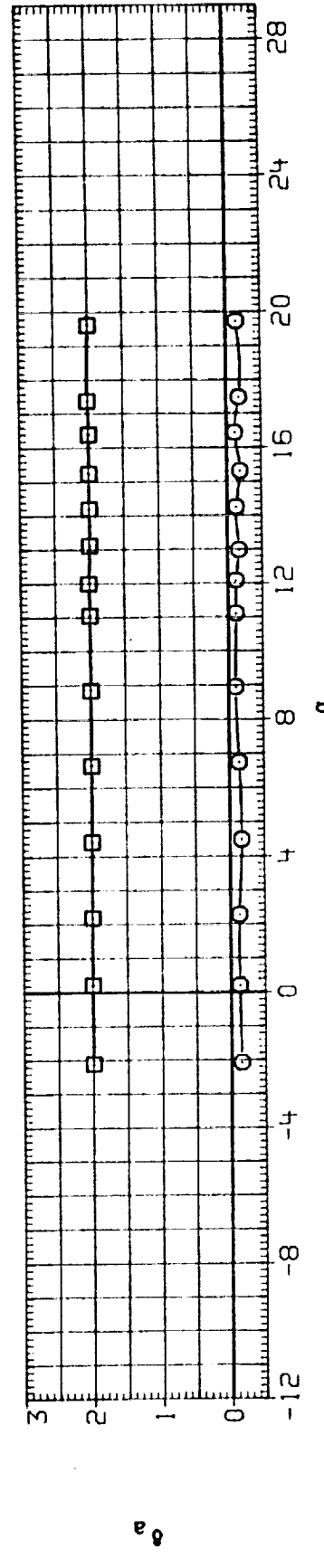
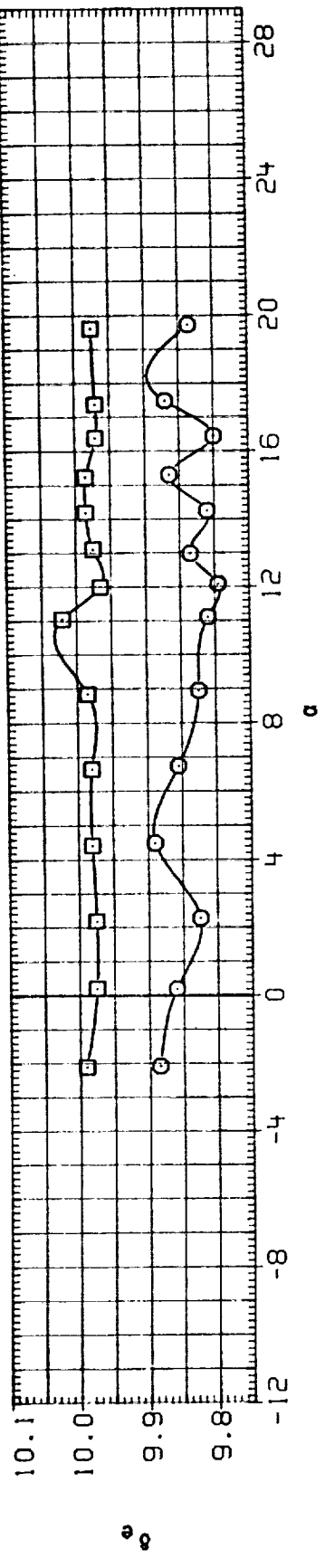
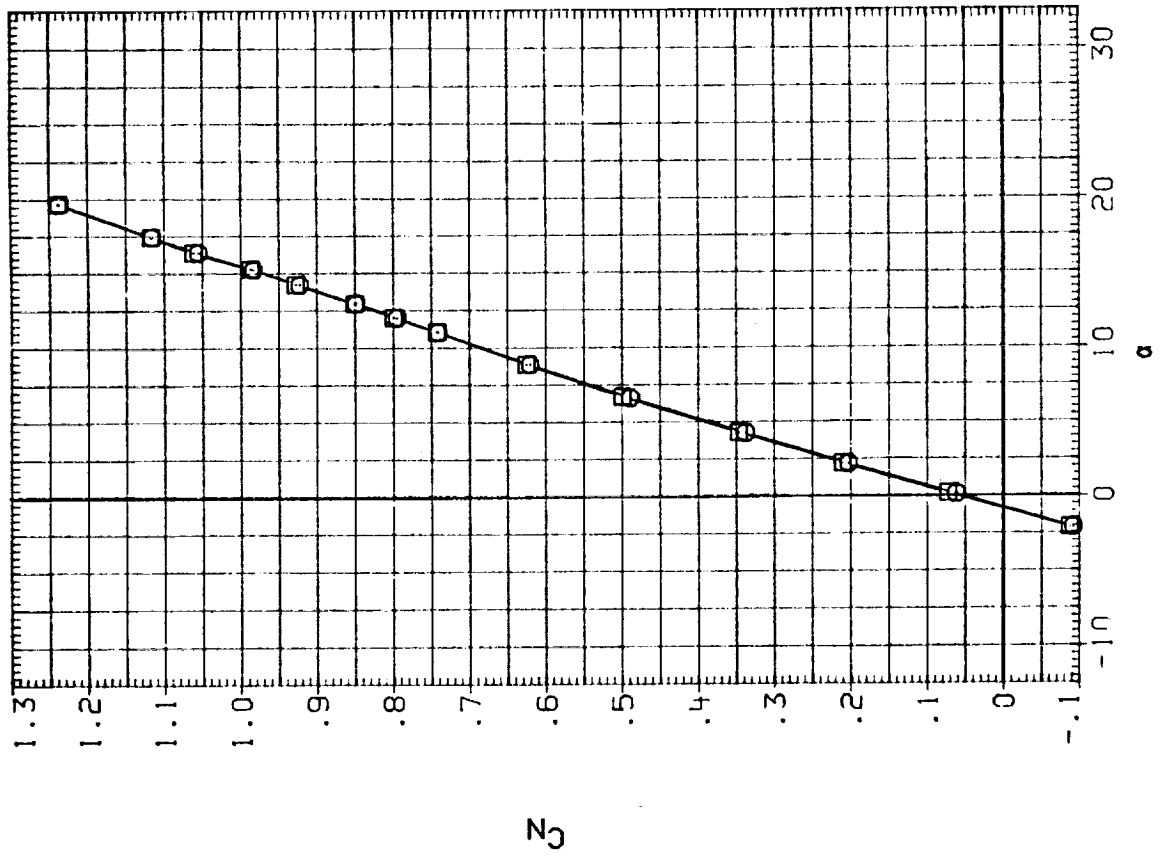


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK036) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK040) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)



ELEVON AILERON RN/L BETA
 10.000 .000
 10.000 2.000
 10.000 4.500
 10.000 4.500

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BRF 936.6900 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

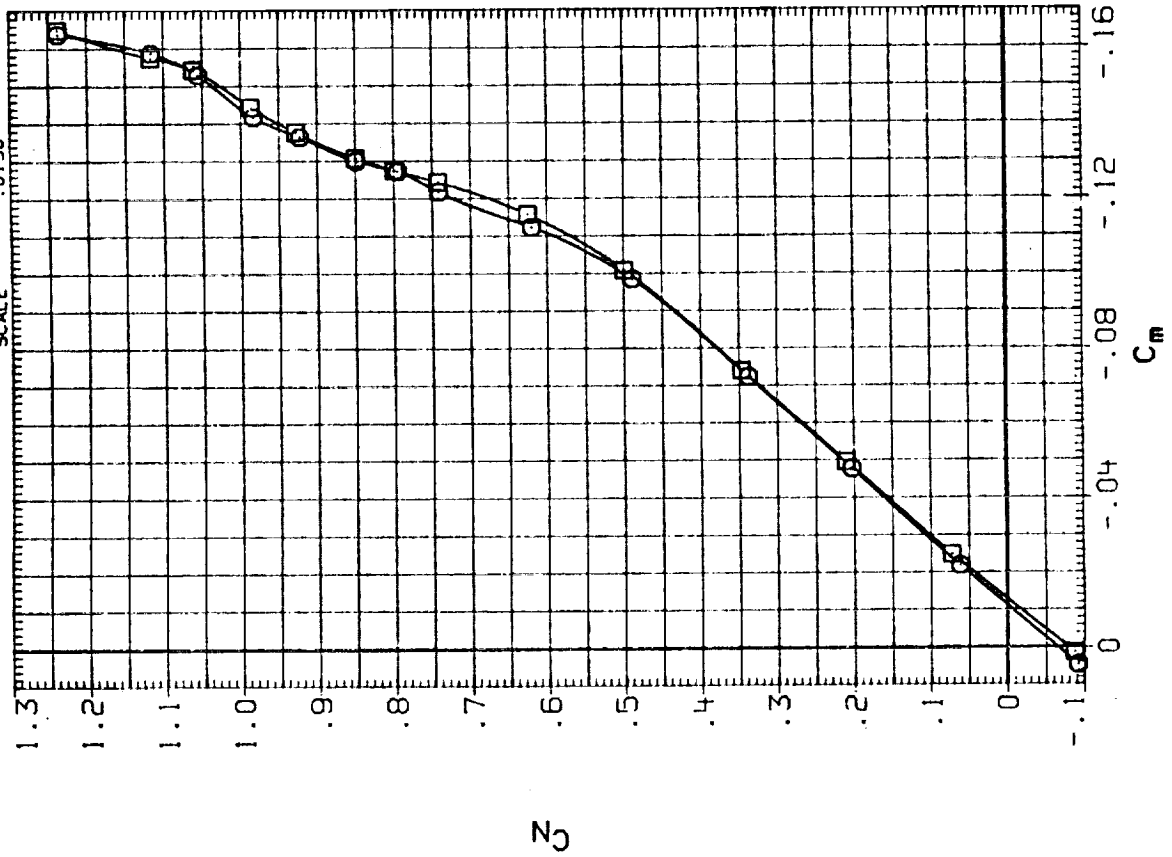


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK036) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK040) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA
 10.000 .000 4.500 .000
 10.000 2.000 4.500 .000

REFERENCE INFORMATION
 SO.FT. 2690.0000
 INCHES 474.8000
 IN. X0 936.6800
 IN. Y0 1076.7000
 IN. Z0 .0000
 ZMRP 375.0000
 SCALE .0150

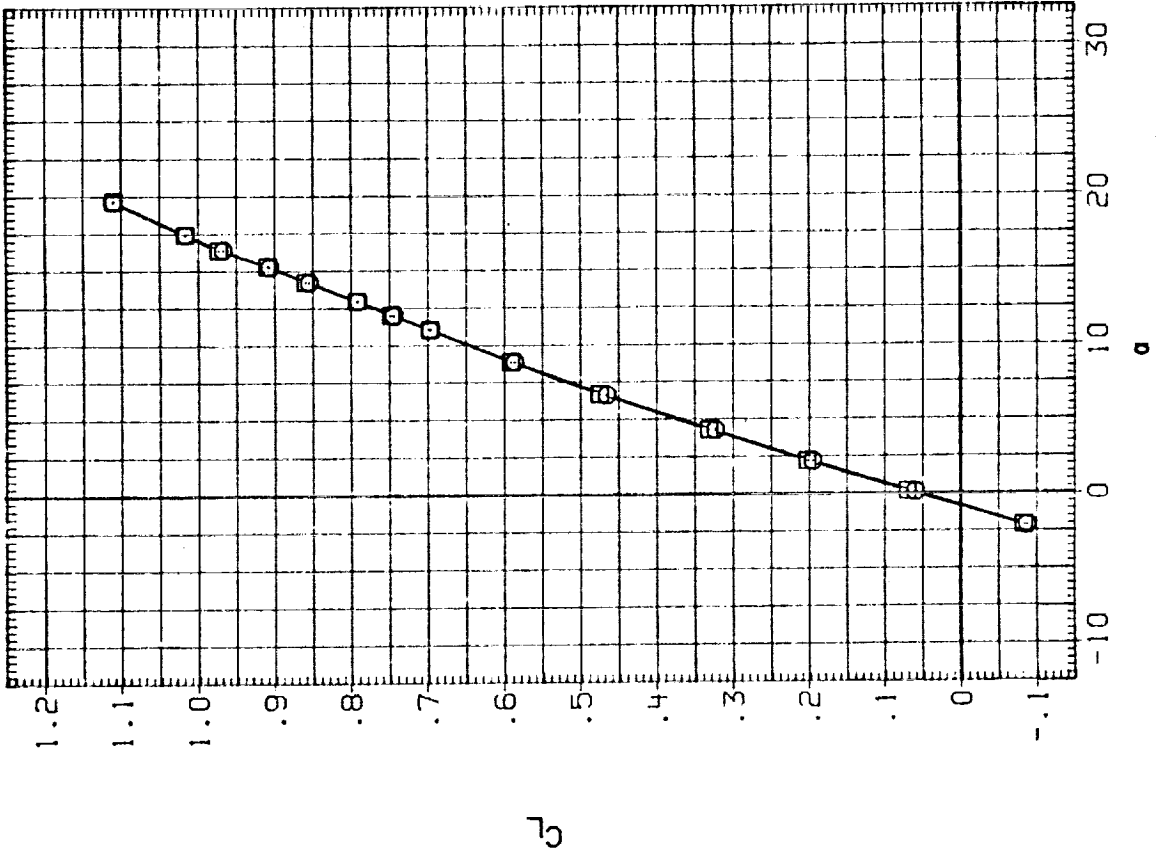
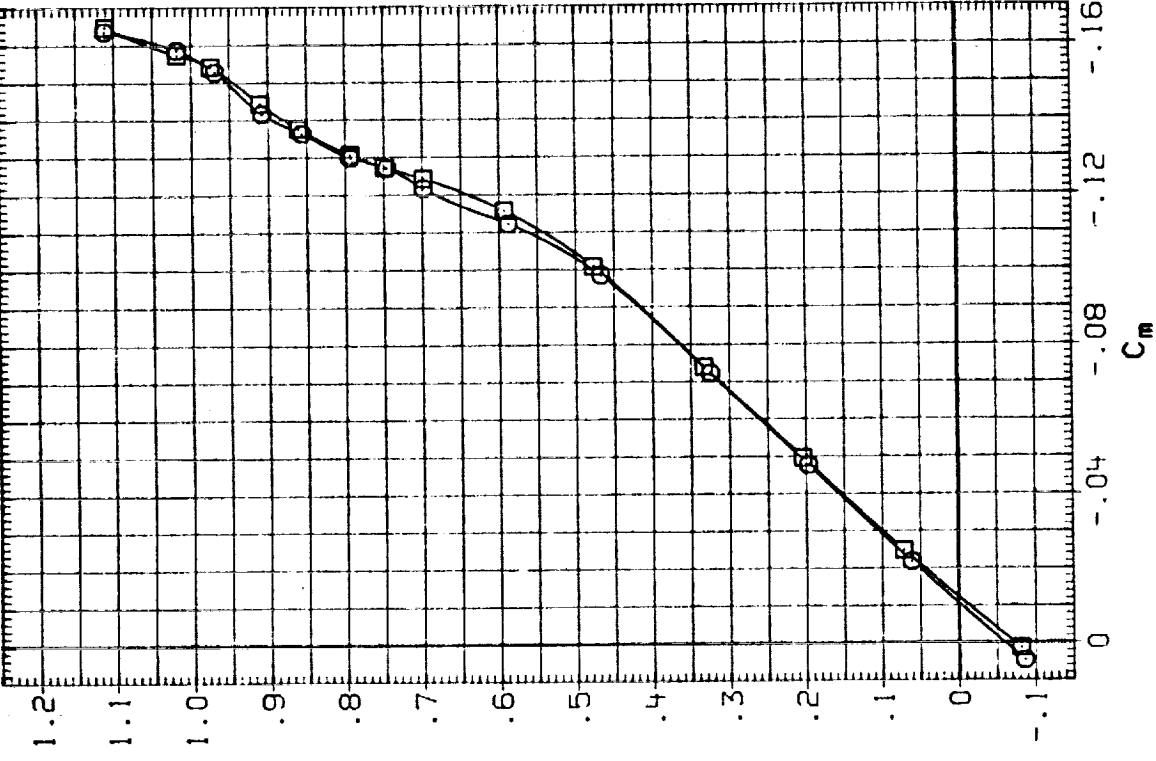


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK040) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA

10.000 .000 4.500 .000

10.000 2.000 4.500 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

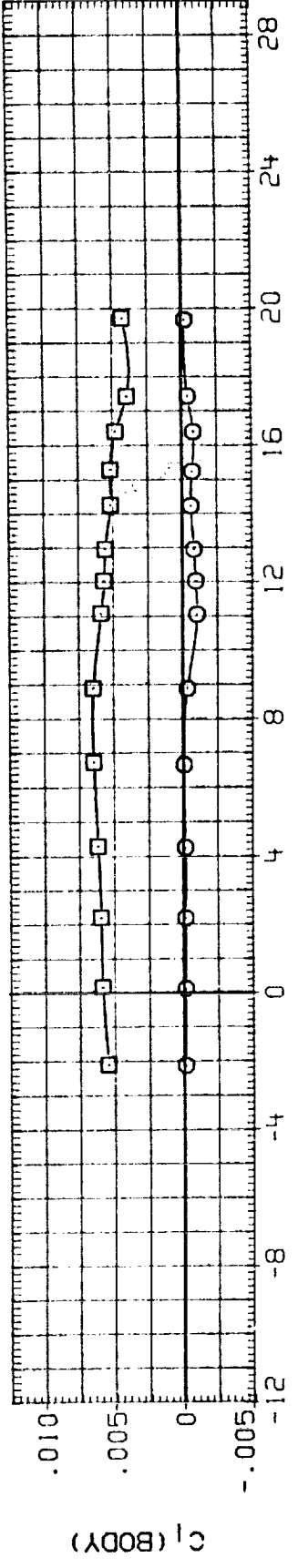
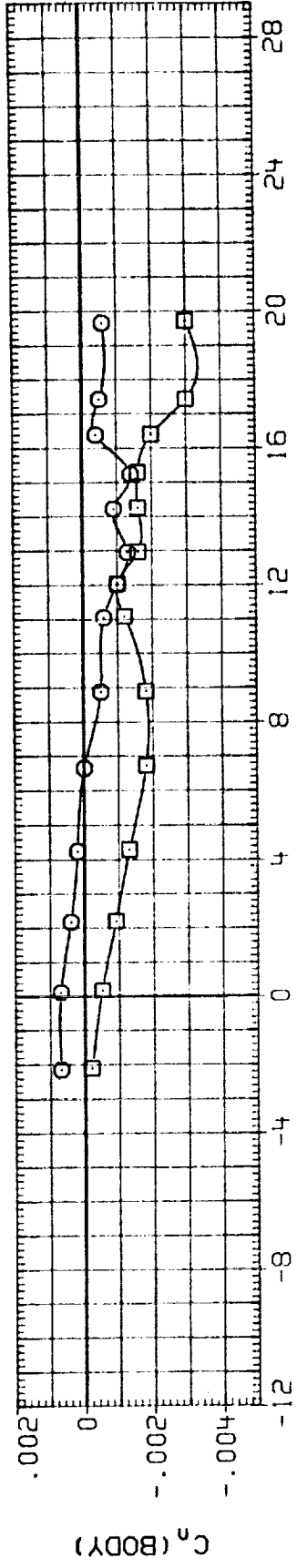
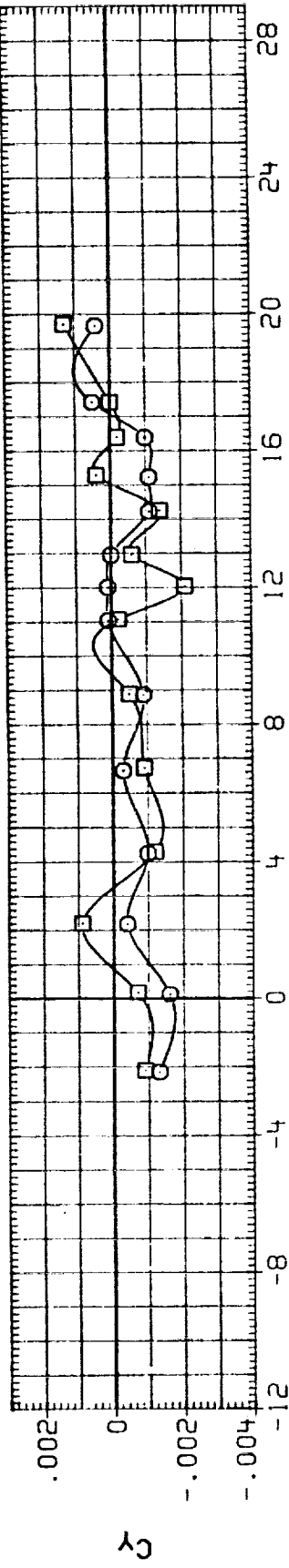


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.05

| | | | | | | |
|-----------------|--|--------|---------|-------|------|-----------------------|
| DATA SET SYMBOL | CONF IGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
| (CUK035) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.500 | .000 | SREF 2690.0000 SO.FT. |
| (CUK040) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 2.000 | 4.500 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6000 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

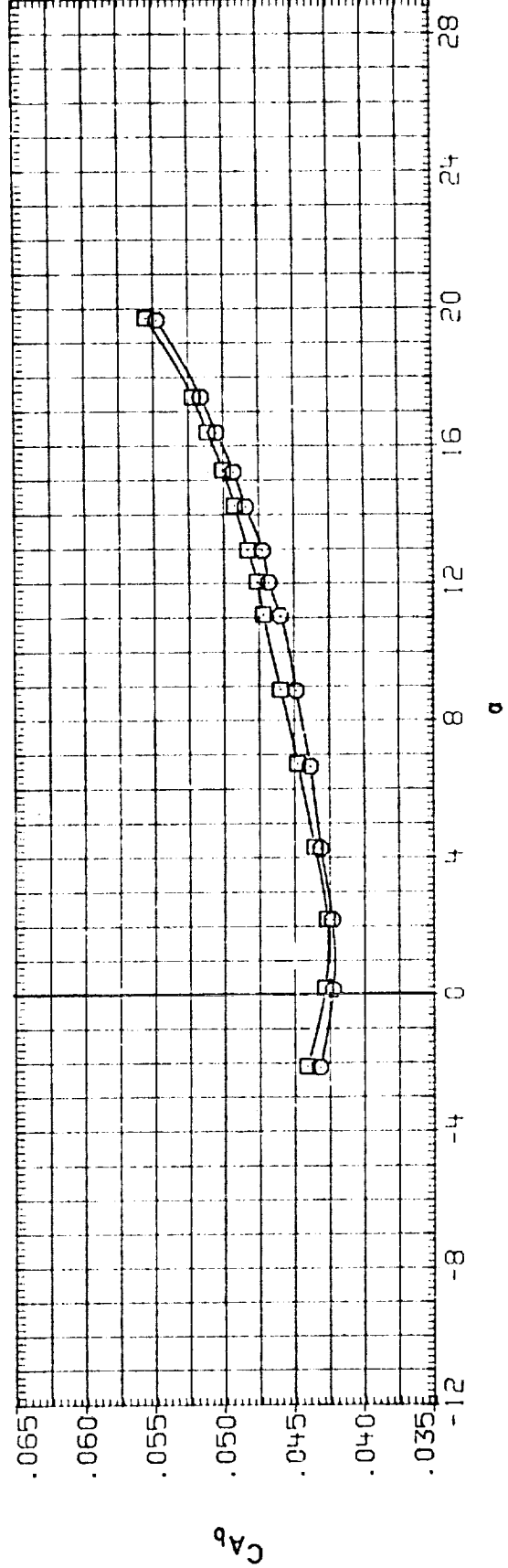
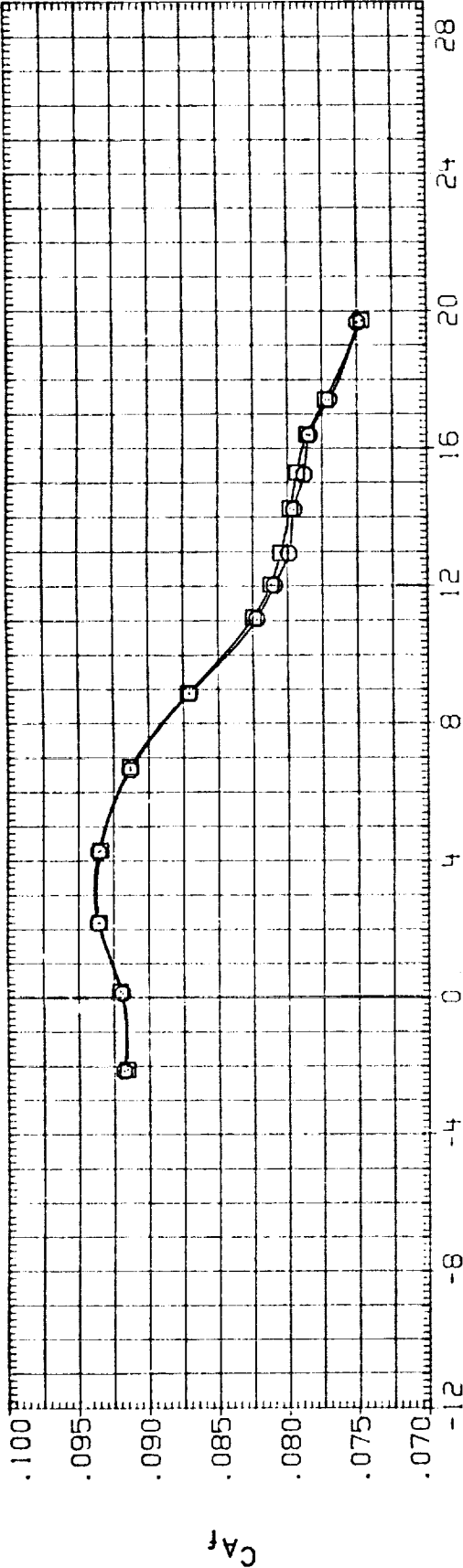


FIG. 29 EFFECT OF AILERON, ELEVON = 10

DATA SET SYMBOL (CUK0361) (CUK040)

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA

10.000 .000
 10.000 4.500
 2.000 4.500

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

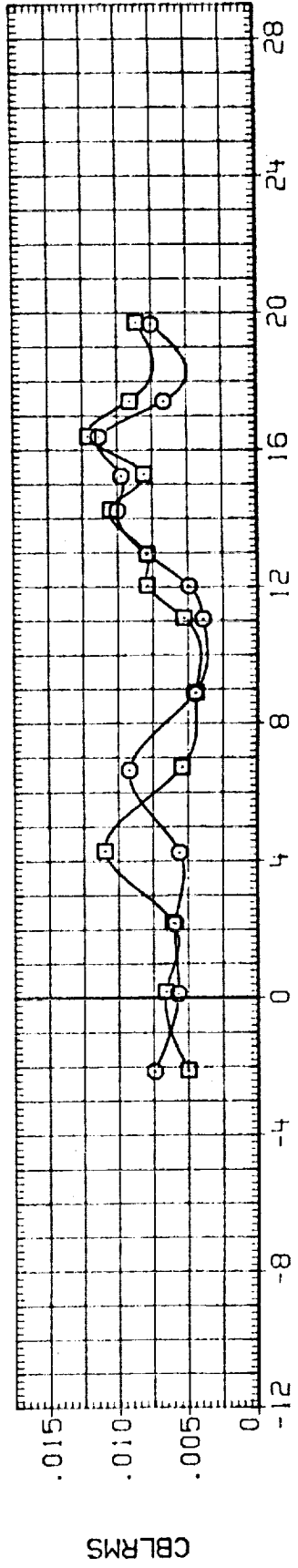
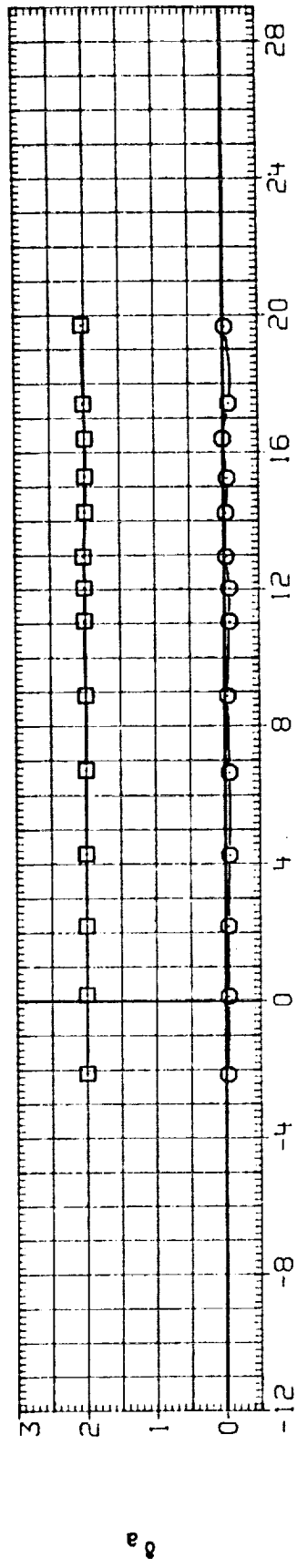
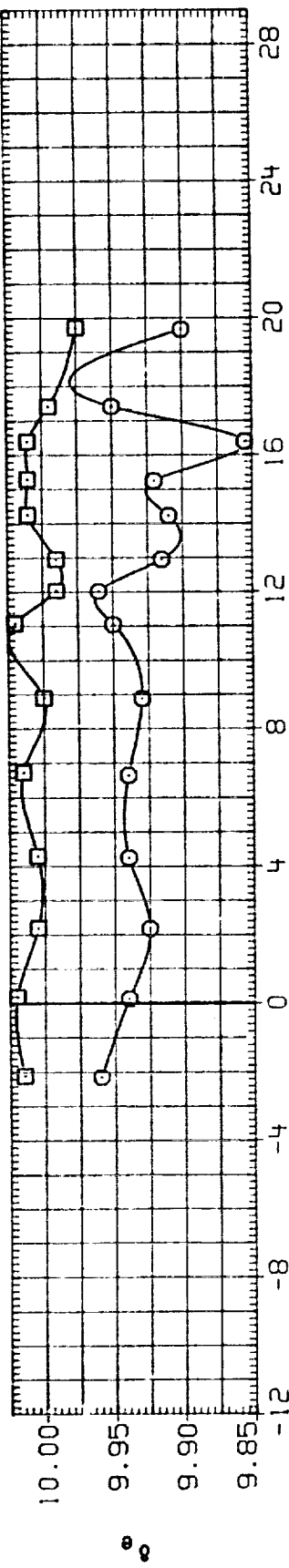


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK038) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK041) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RW/L BETA
 10.000 .000
 10.000 4.000
 10.000 2.000 .000
 10.000 4.000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

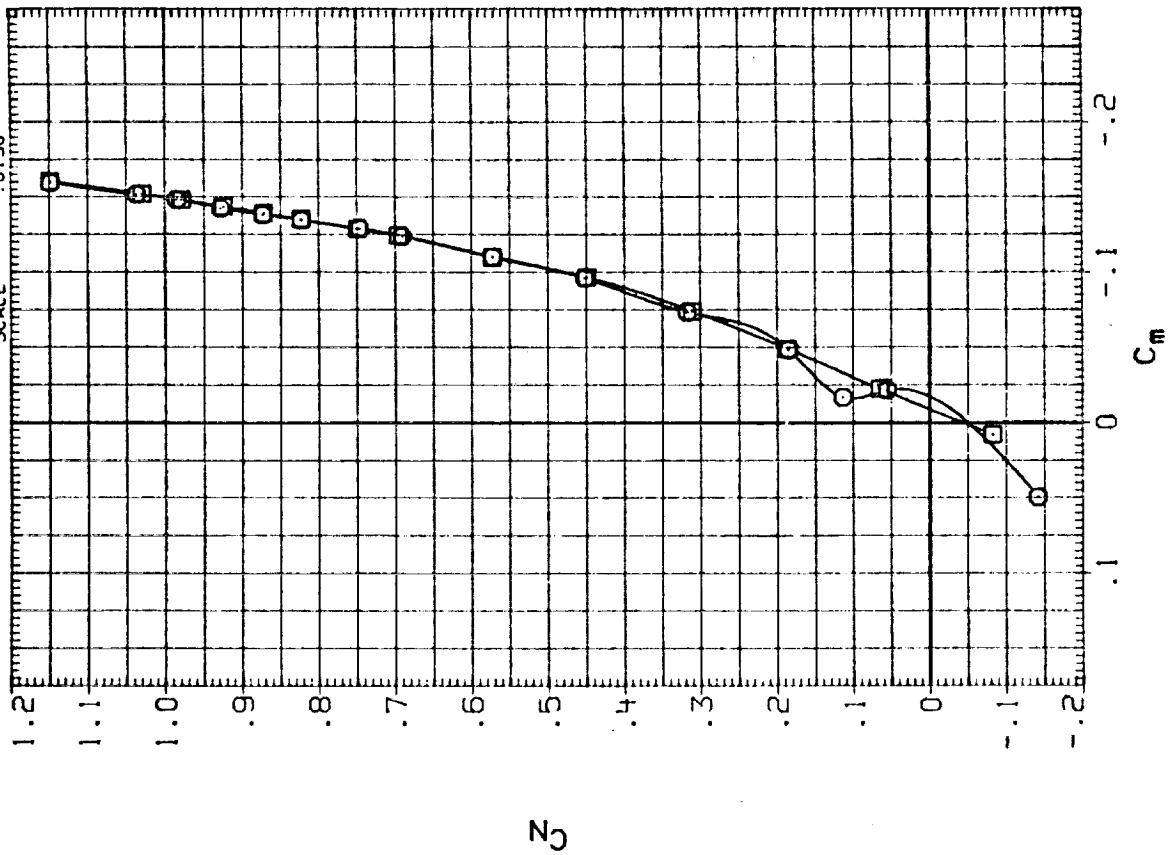
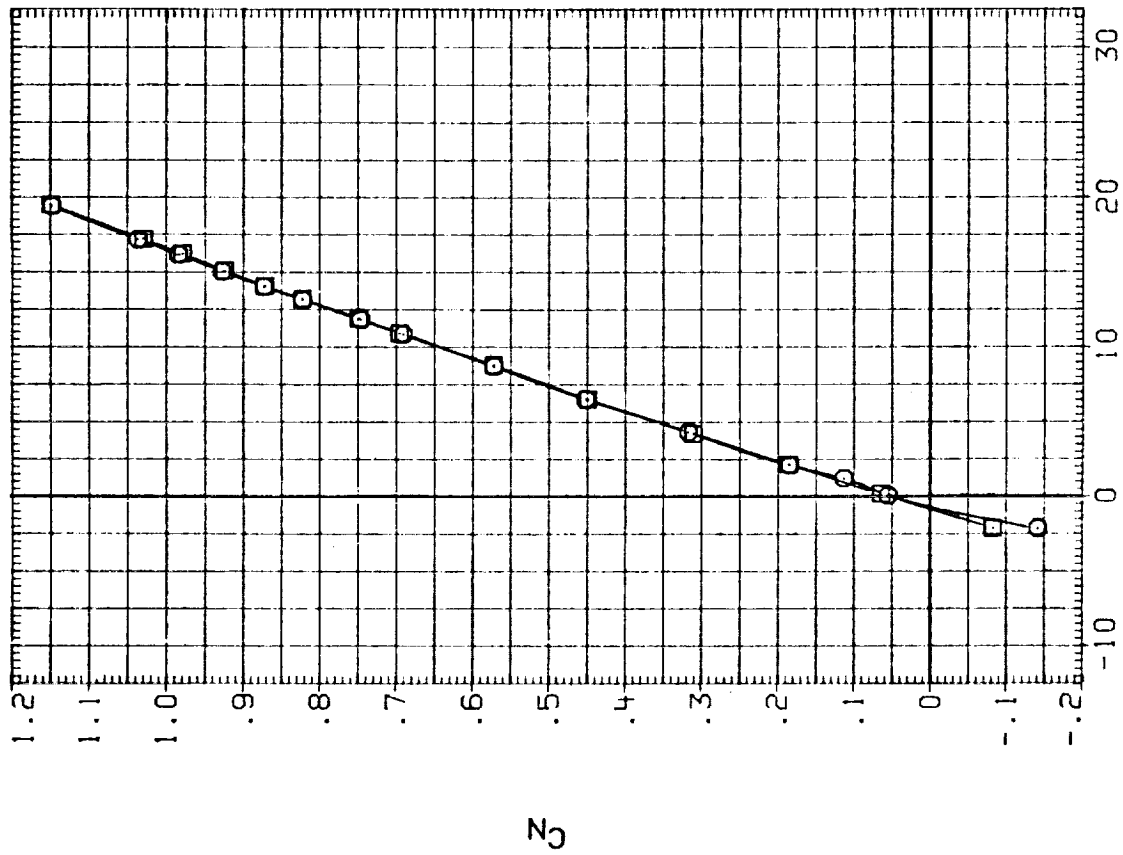


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.20

DATA SET SYMBOL (RUK038) (RUK041)

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON 10.000
 AILERON 2.000
 RN/L 4.000
 BETA .000

REFERENCE INFORMATION
 SREF 2690.0000 SO. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

SCALE .0150

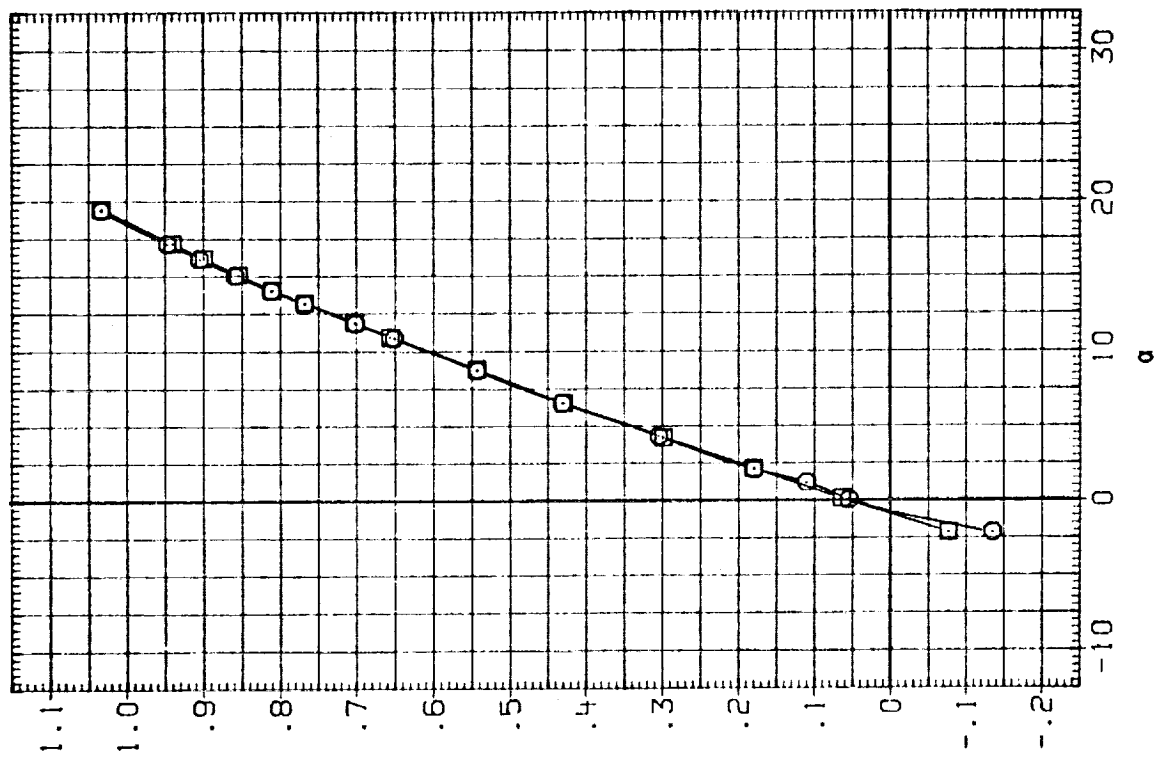
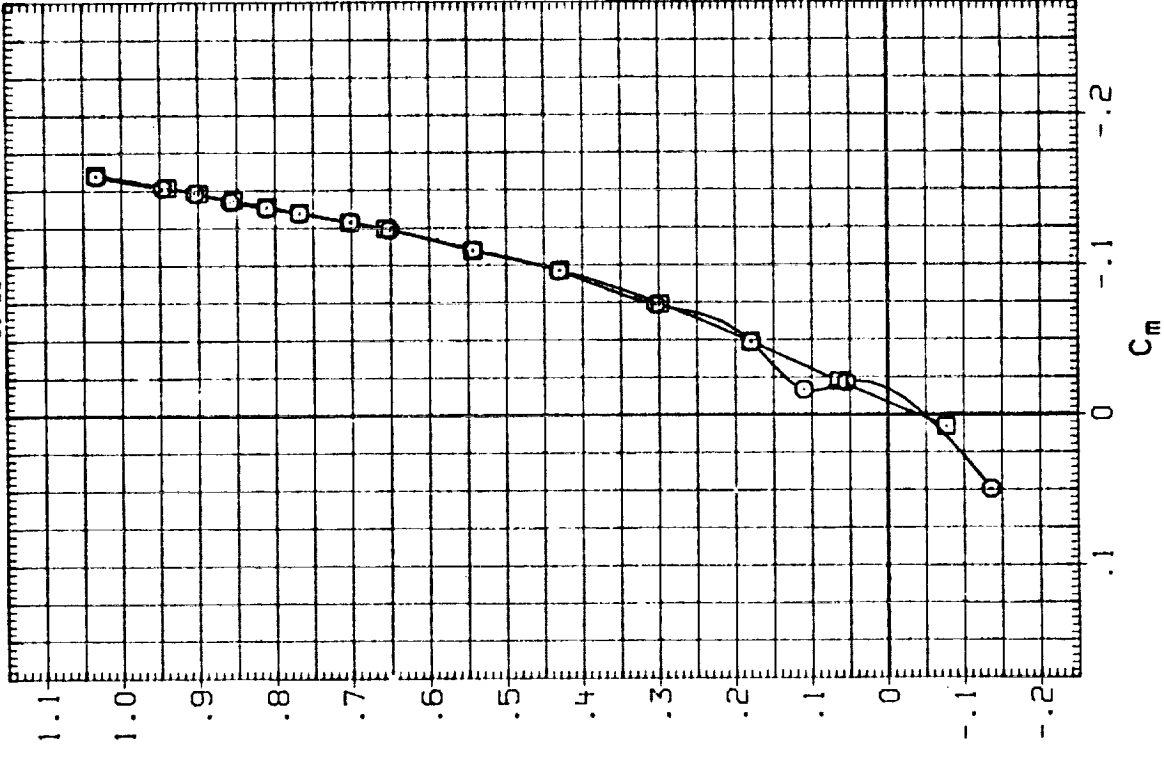


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK038) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK041) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

ELEVON AILERON RN/L BETA
 10.000 2.000 4.000 .000
 10.000 4.000 4.000 .000

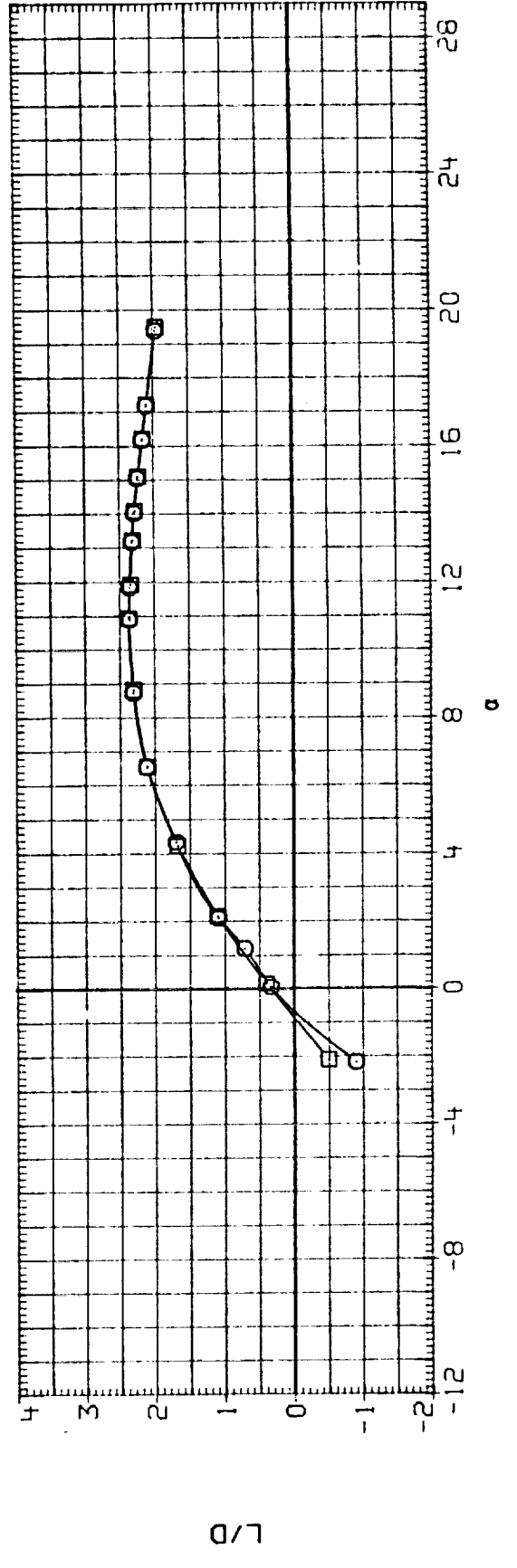
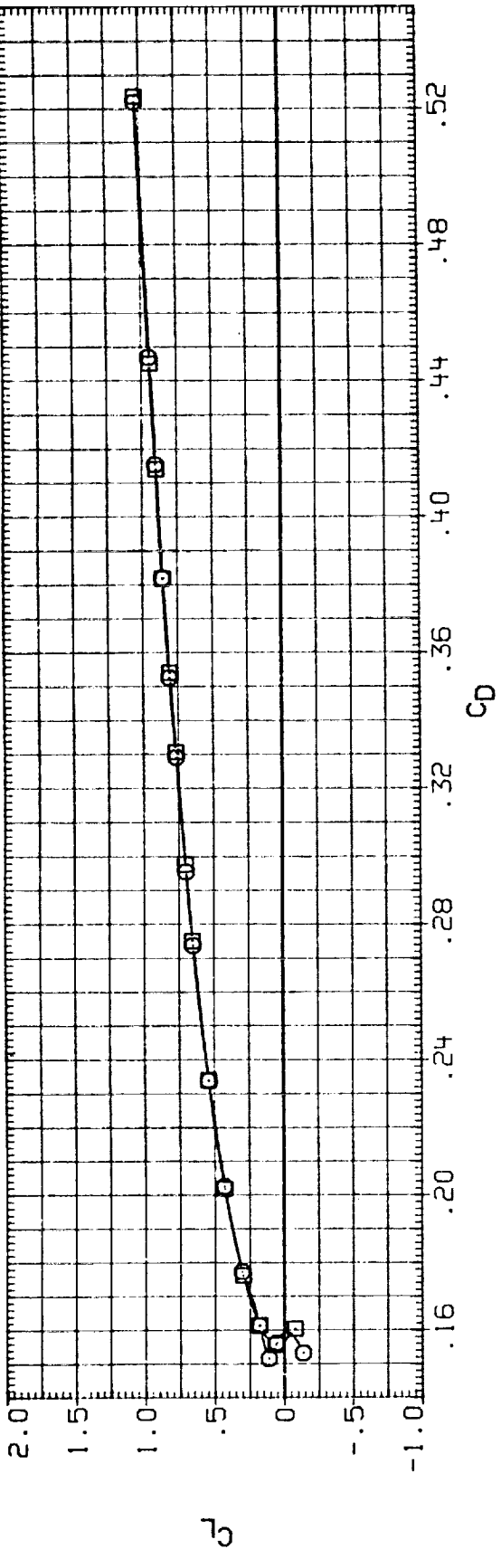


FIG. 29 EFFECT OF AILERON, ELEVON = 10

| | | | | | | |
|-----------------|--|--------|---------|-------|------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RN/L | BETA | REFERENCE INFORMATION |
| (RUK038) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK041) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 2.000 | 4.000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

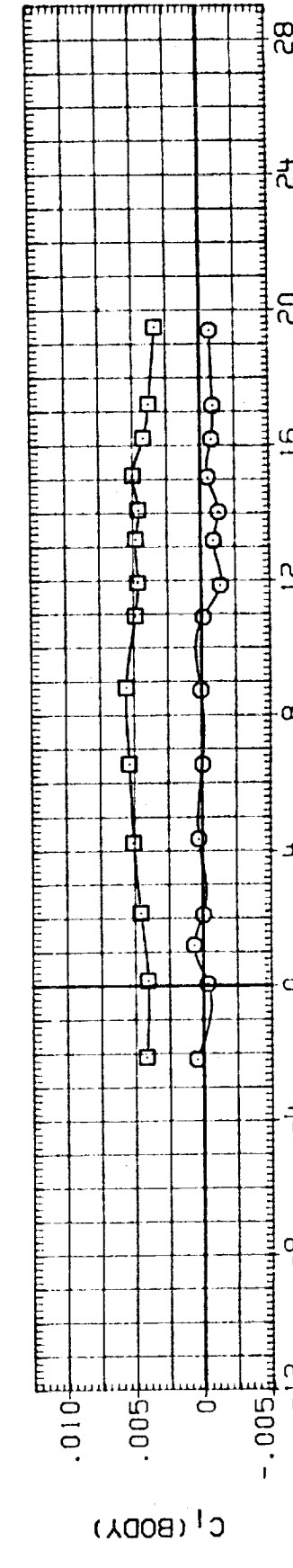
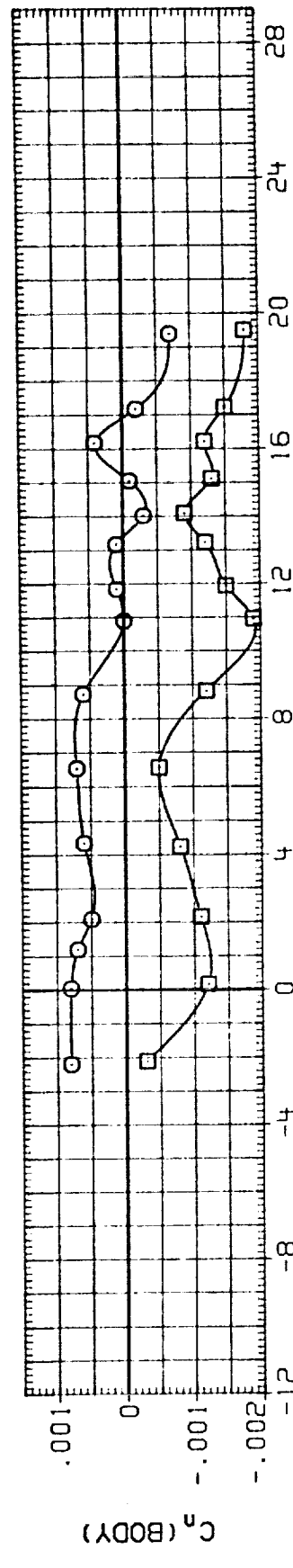
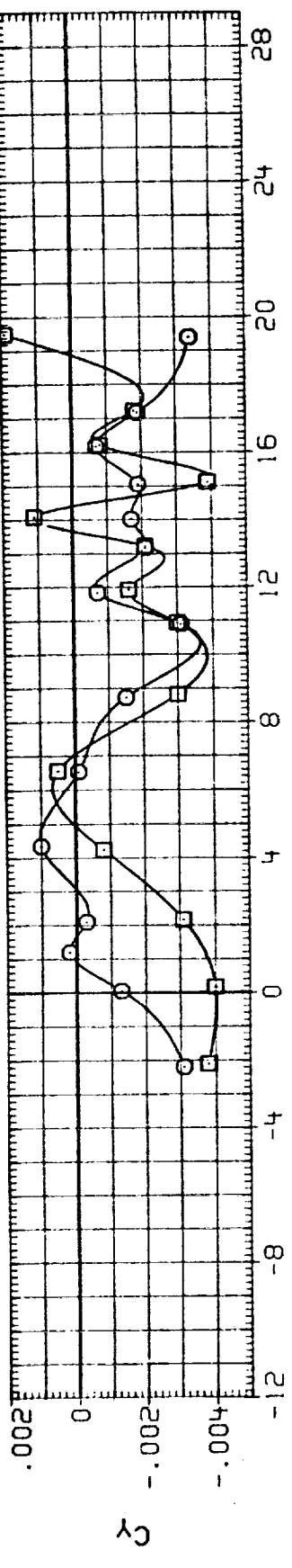


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.20

| | | | | | | |
|-----------------|--|--------|---------|-------|------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ELEVON | AILERON | RM/L | BETA | REFERENCE INFORMATION |
| (CUK038) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | .000 | 4.000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK041) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 2.000 | 4.000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

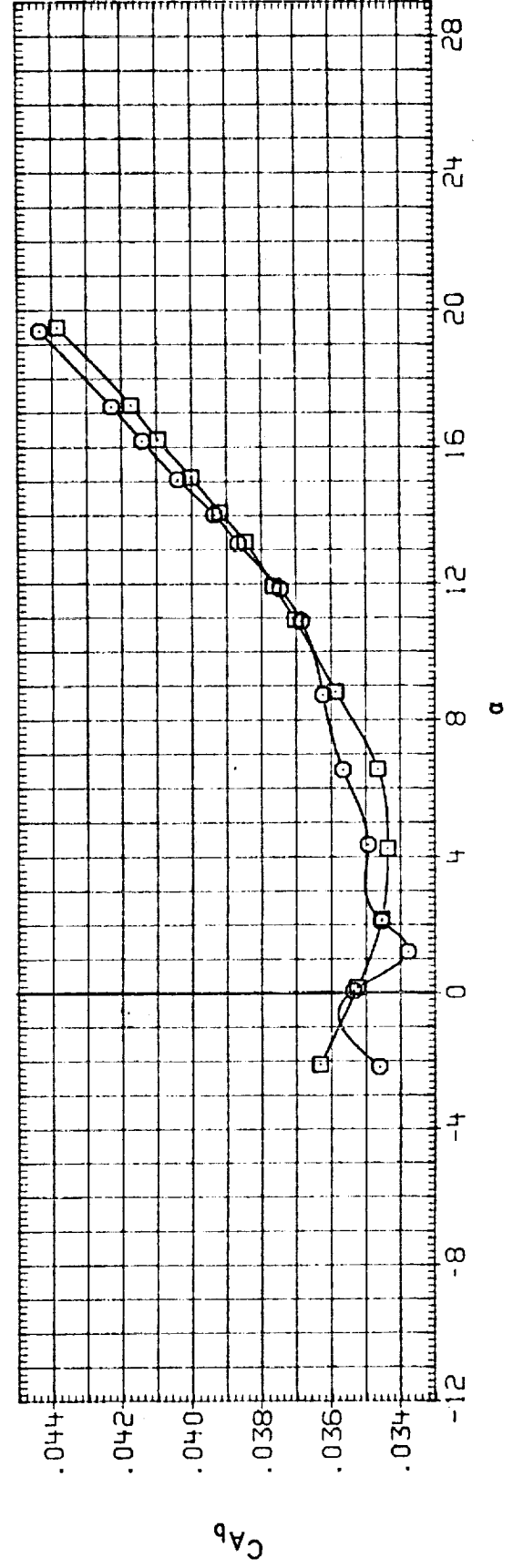
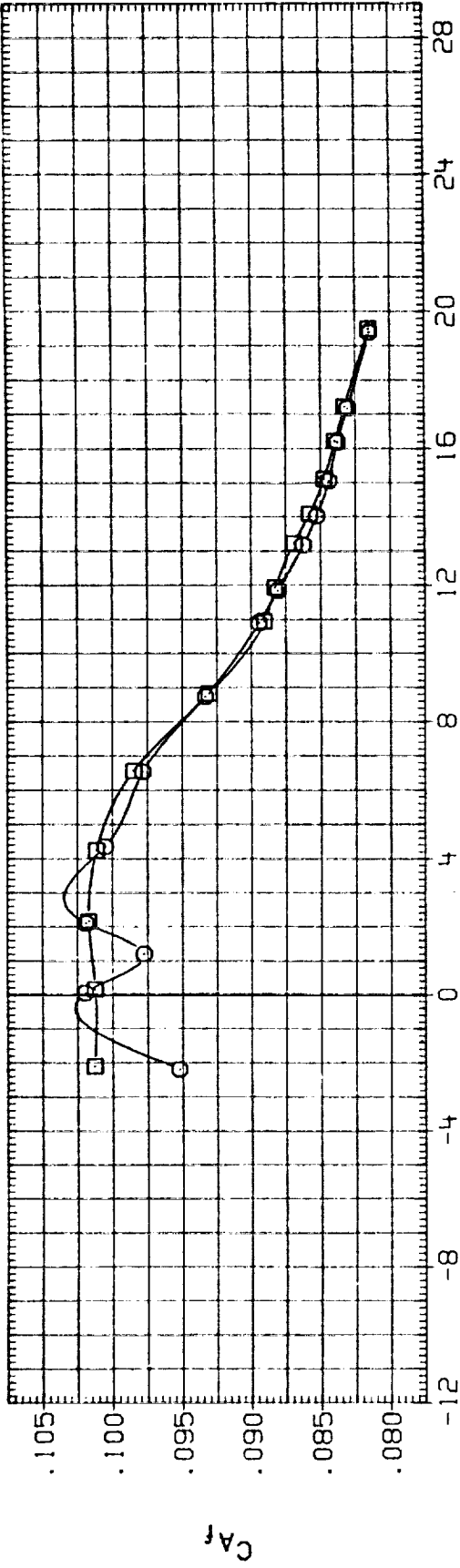


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK038) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK041) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RV/L BETA

10.000 .000

10.000 4.000

2.000 4.000

.000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

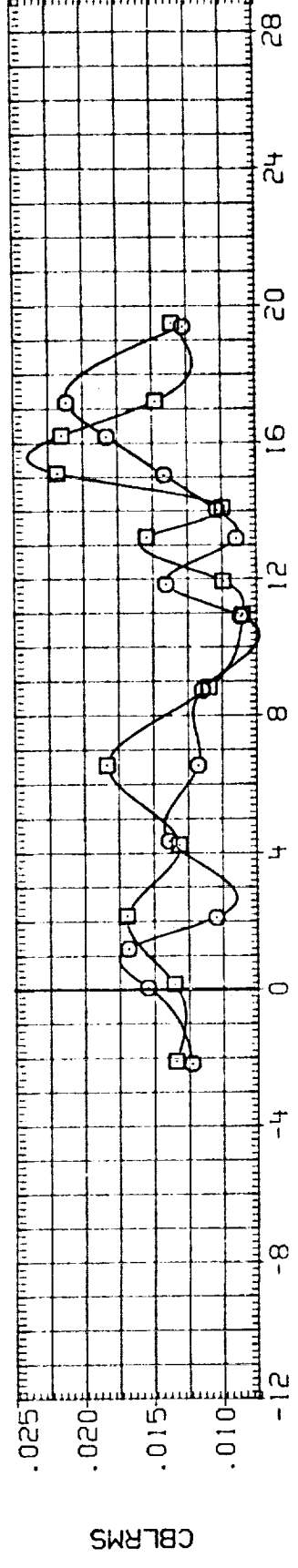
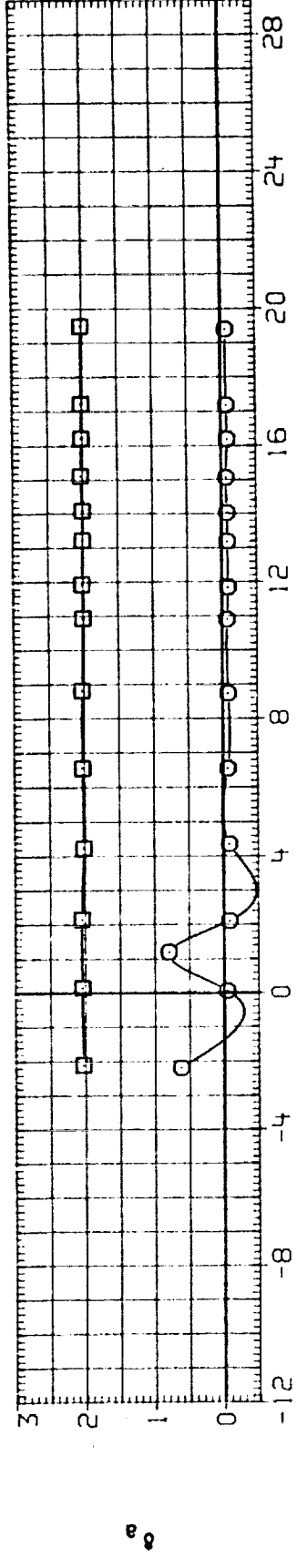
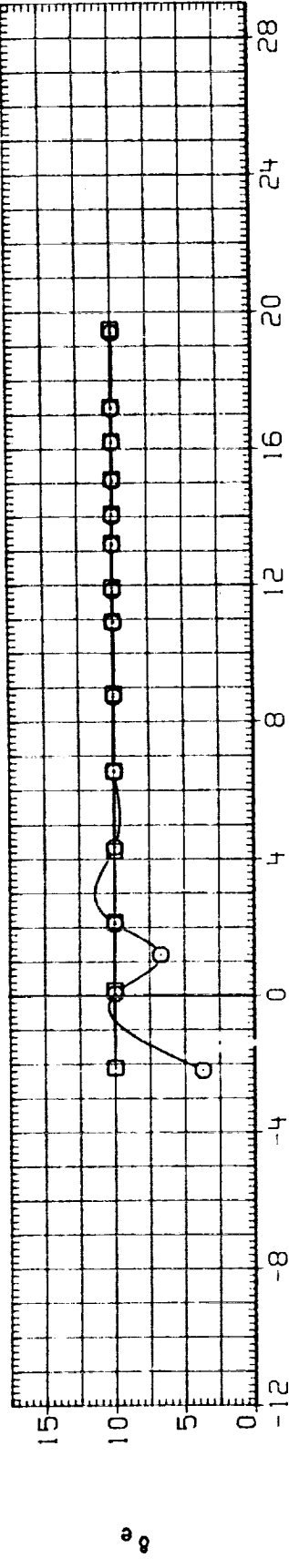


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK047) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA -2.000
 RN/L 4.500
 ELEVON .000
 AIRLON .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

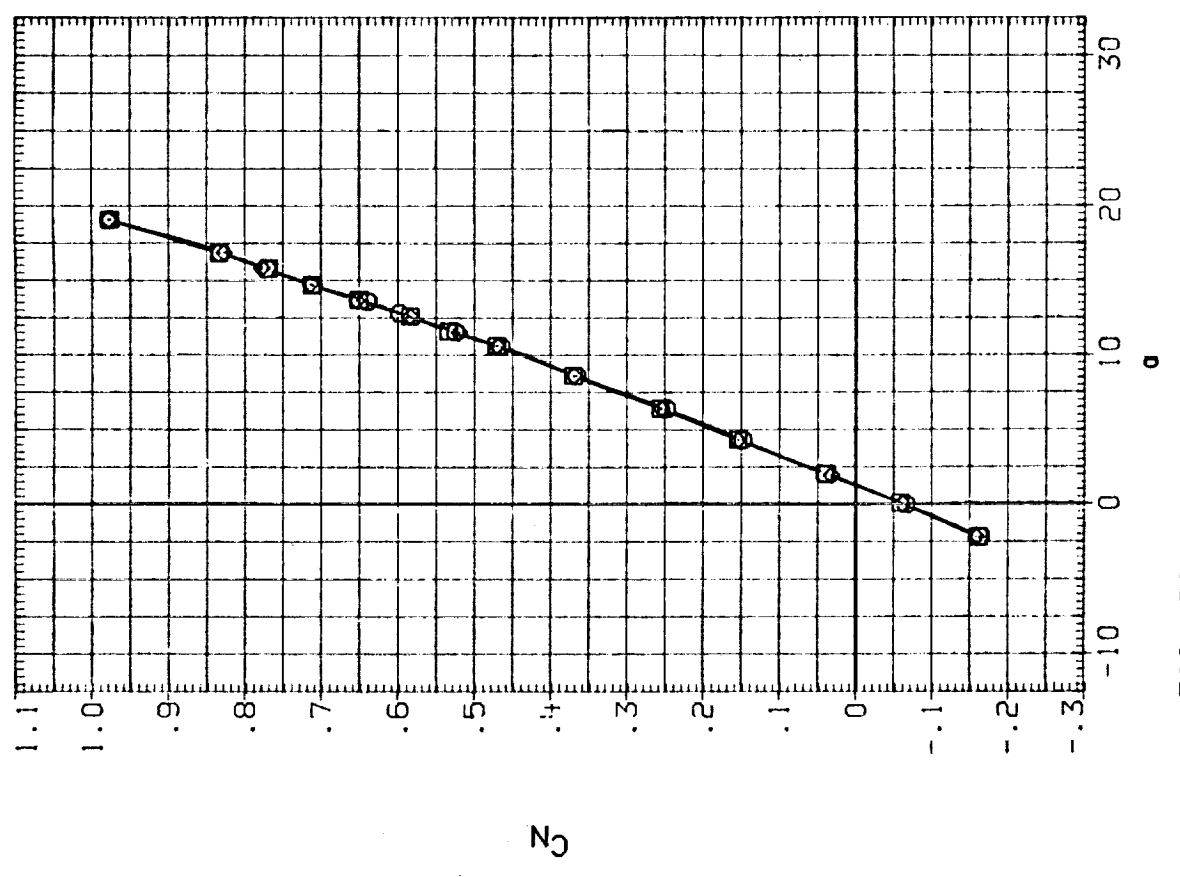
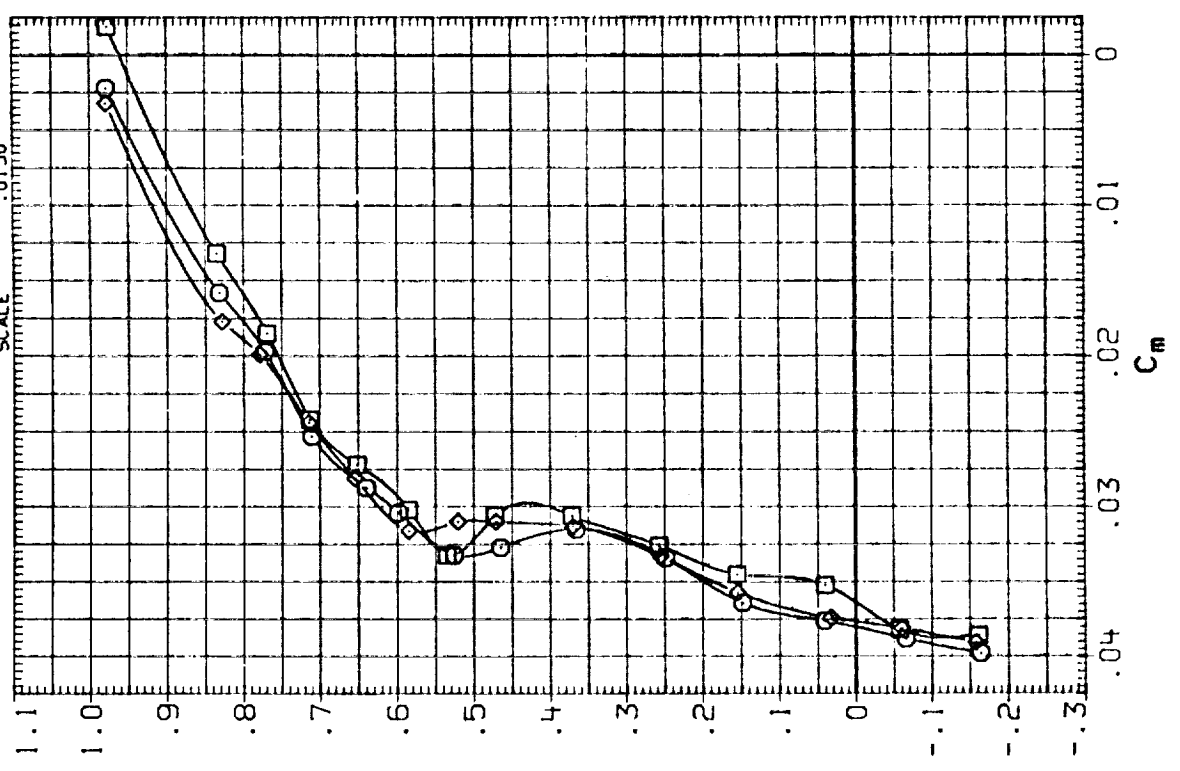
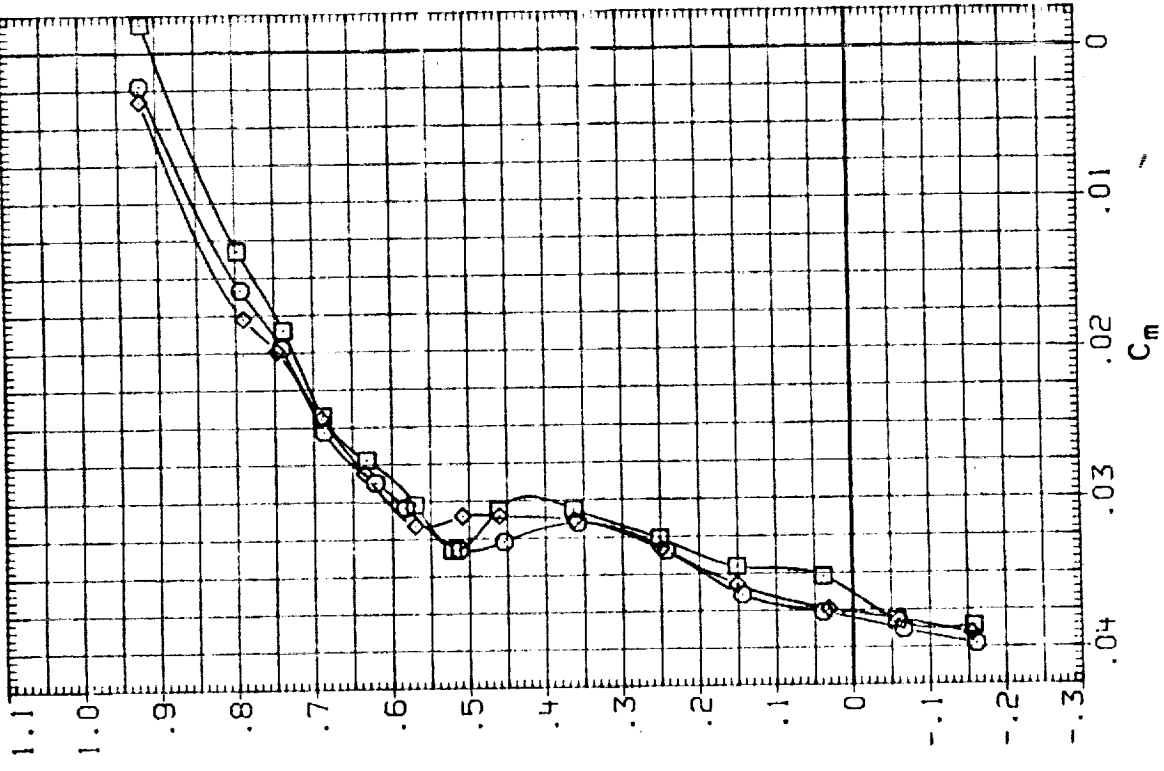


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .60

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

BETA -2.000
 FN/L 4.500
 ELEVON .000
 AIRLON .000



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK047) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

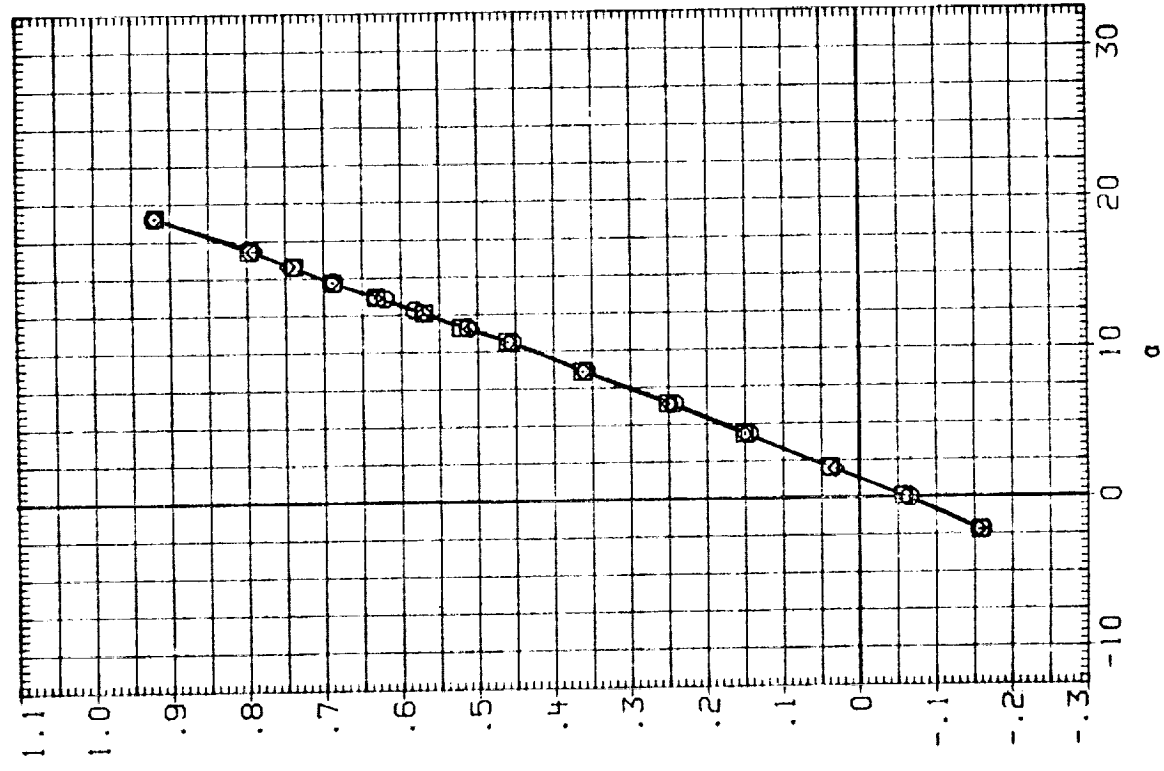


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AAILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|--------|---------|-----------------------|
| (RUK047) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -2.000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK042) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 2.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

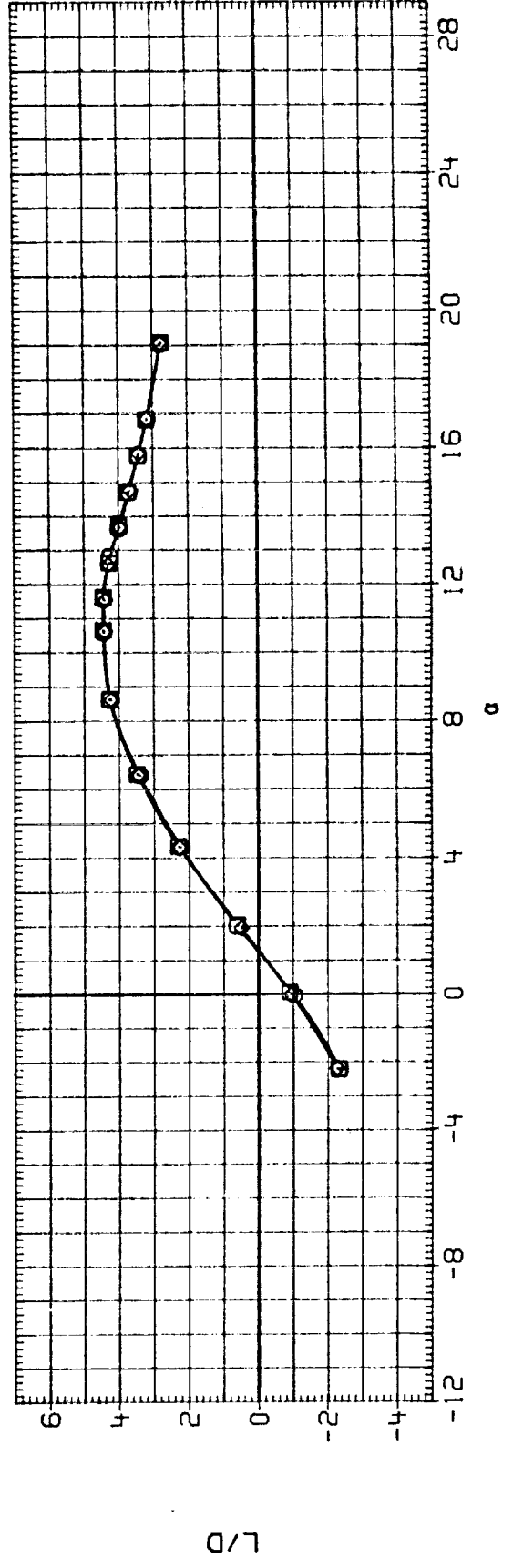
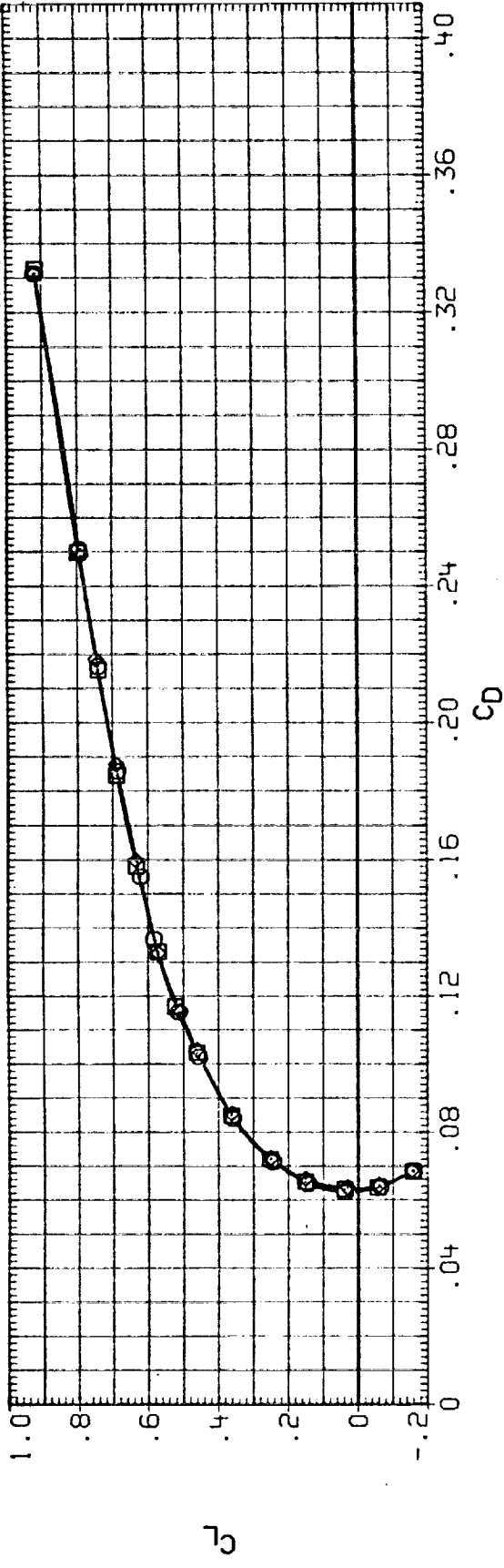


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA RV/L ELEVON AIRLON

(RUK047) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) -2.000 4.500 .000 .000

(RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) .000 4.500 .000 .000

(RUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) 2.000 4.500 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XPRP 1076.7000 IN. XO

YPRP .0000 IN. YO

ZPRP 375.0000 IN. ZO

SCALE .0150

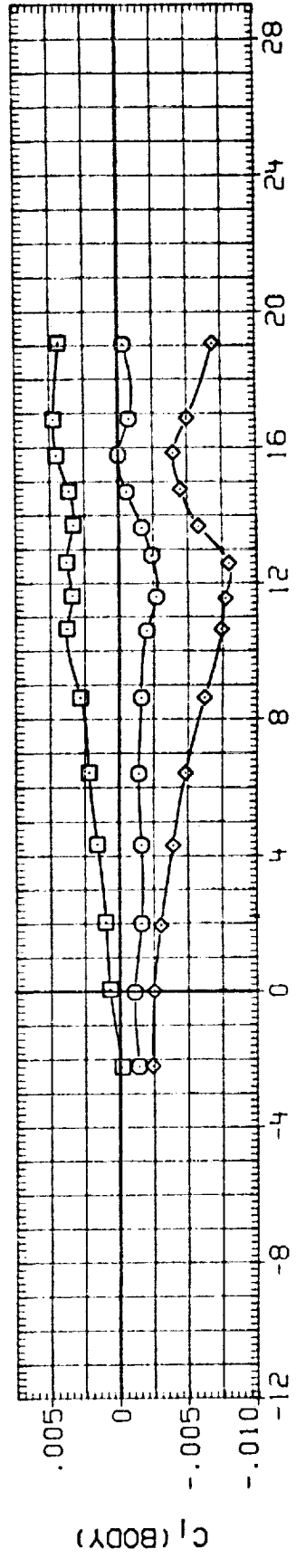
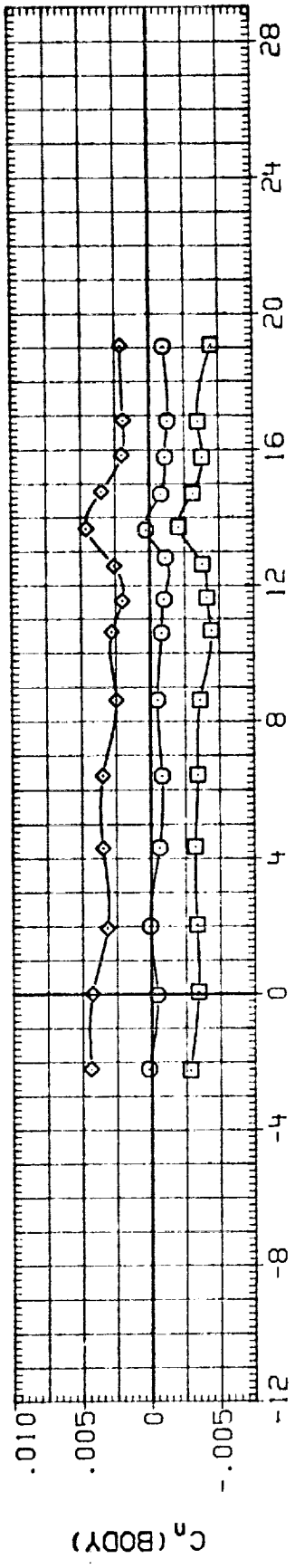
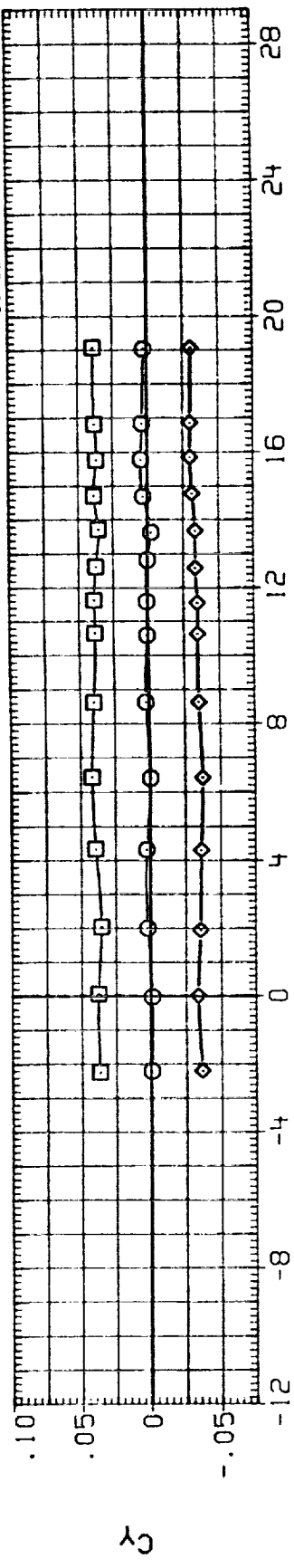


FIG. 30 EFFECT OF SIDESLIP, ELEVON=0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

| | | |
|----------|---|--|
| (CUK047) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) |
| (CUK028) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) |
| (CUK042) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) |

BETA RN/L ELEVON AIRLON

| | | | |
|--------|-------|------|------|
| -2.000 | 4.500 | .000 | .000 |
| .000 | 4.500 | .000 | .000 |
| 2.000 | 4.500 | .000 | .000 |

REFERENCE INFORMATION

| | | |
|-------|-----------|---------|
| SREF | 2690.0000 | 50. FT. |
| LREF | 474.8000 | INCHES |
| BREF | 936.6800 | INCHES |
| XMRP | 1076.7000 | IN. XO |
| YMRP | .0000 | IN. YO |
| ZMRP | 375.0000 | IN. ZO |
| SCALE | .0150 | |

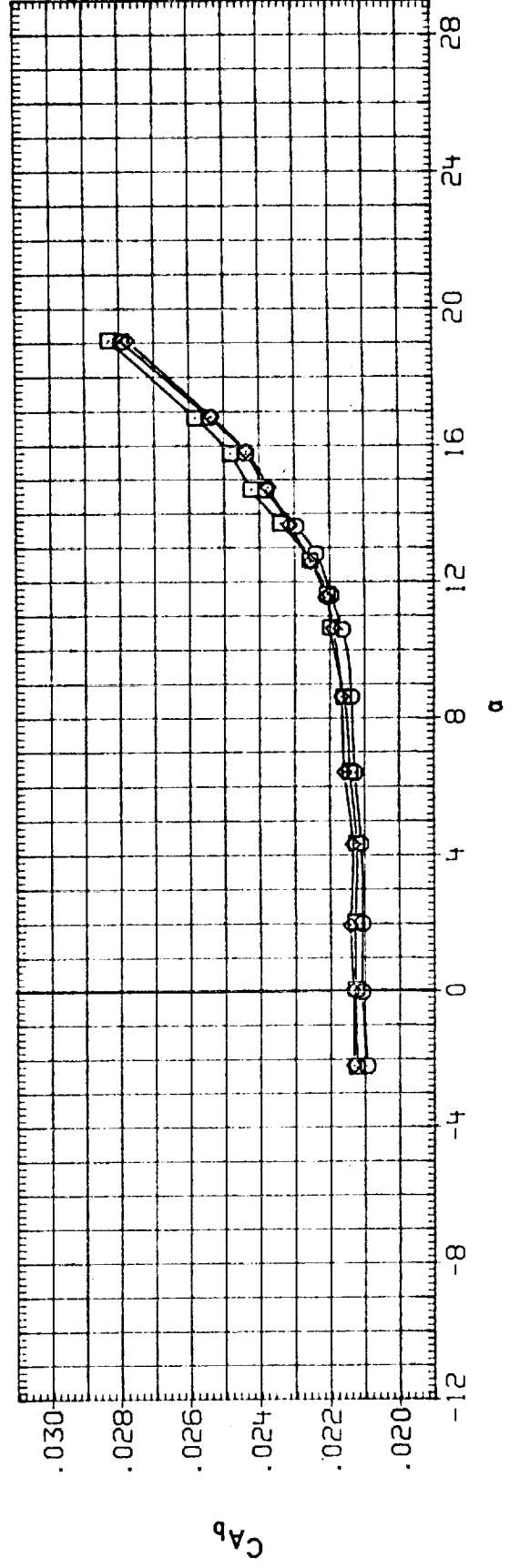
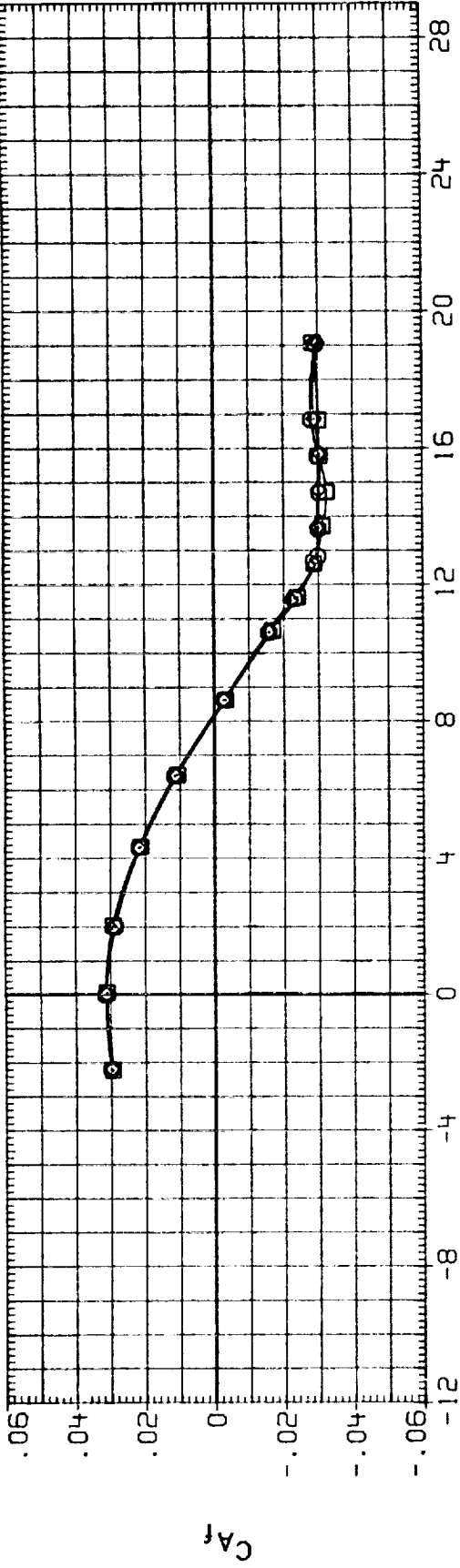


FIG. 30 EFFECT OF SIDESLIP, ELEVON=0

(A) MACH = .60

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. YO
 YMRP .0000 IN. XO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

BETA -2.000
 RN/L 4.500
 ELEVON .000
 AIRLON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CUK047) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

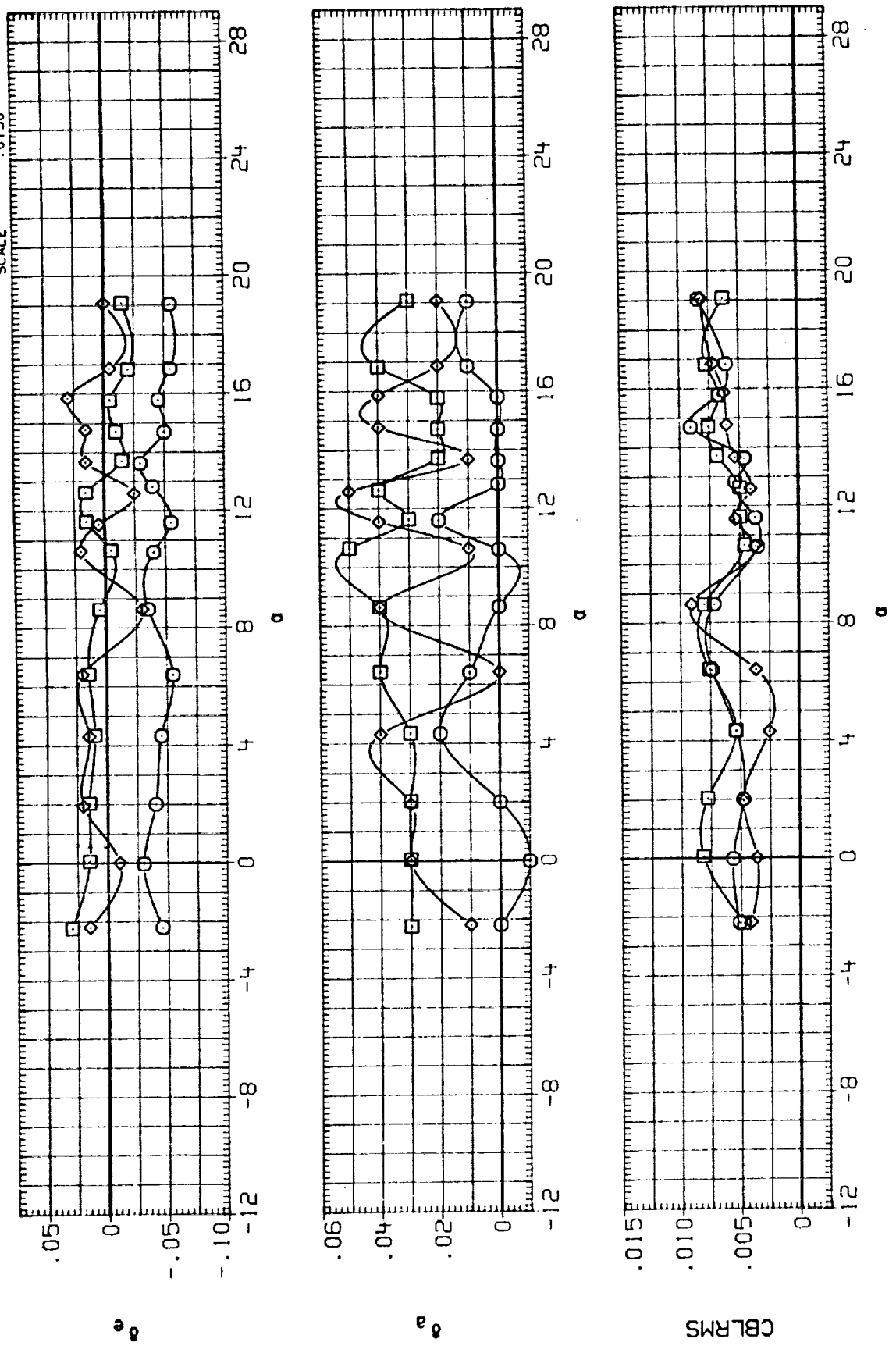


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

- (RUK0471) DATA NOT AVAILABLE
- (RUK0281) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)
- (RUK0421) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

BETA RN/L ELEVON ALLRON

- 2.000 4.500 .000
- .000 4.500 .000
- 2.000 4.500 .000

REFERENCE INFORMATION

- SREF 2690.0000 SO.FT.
- LREF 474.8000 INCHES
- BREF 936.6800 INCHES
- XMRP 1076.7000 IN. XO
- YMRP .0000 IN. YO
- ZMRP 375.0000 IN. ZO
- SCALE .0150

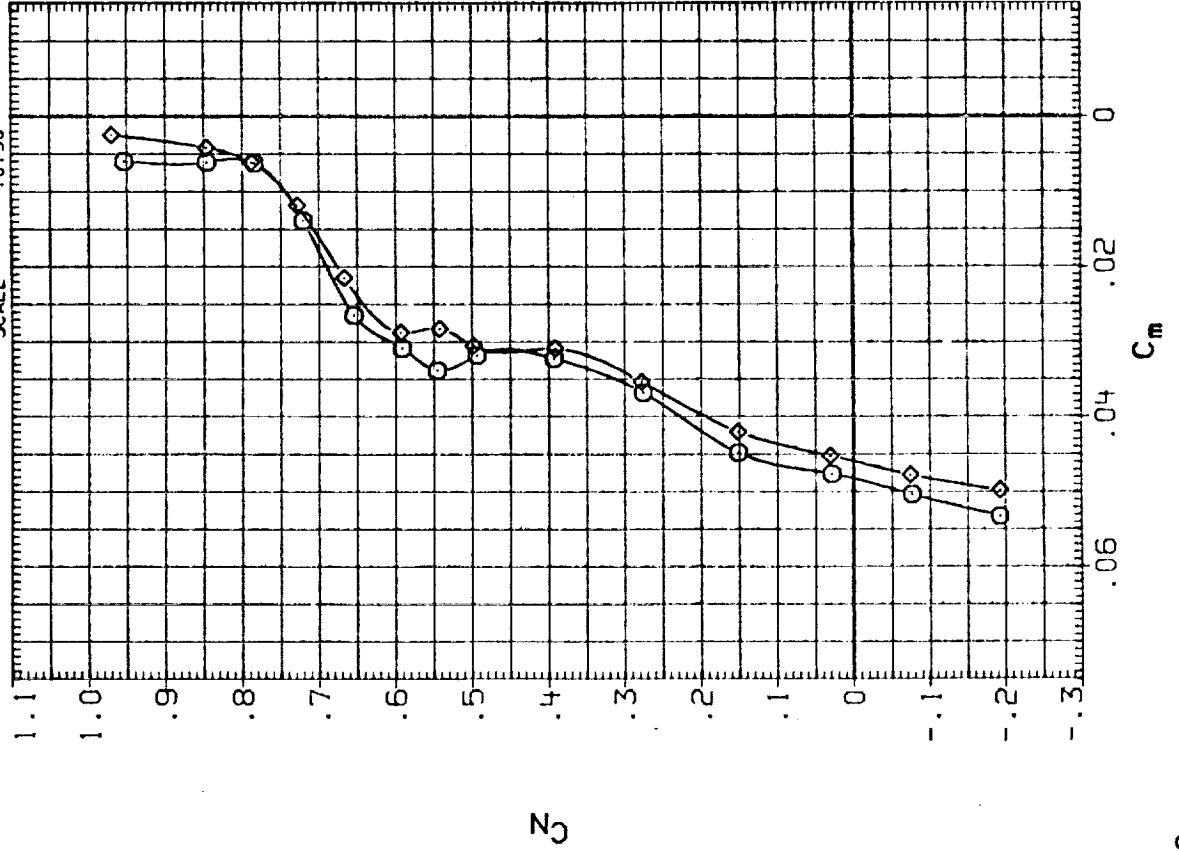
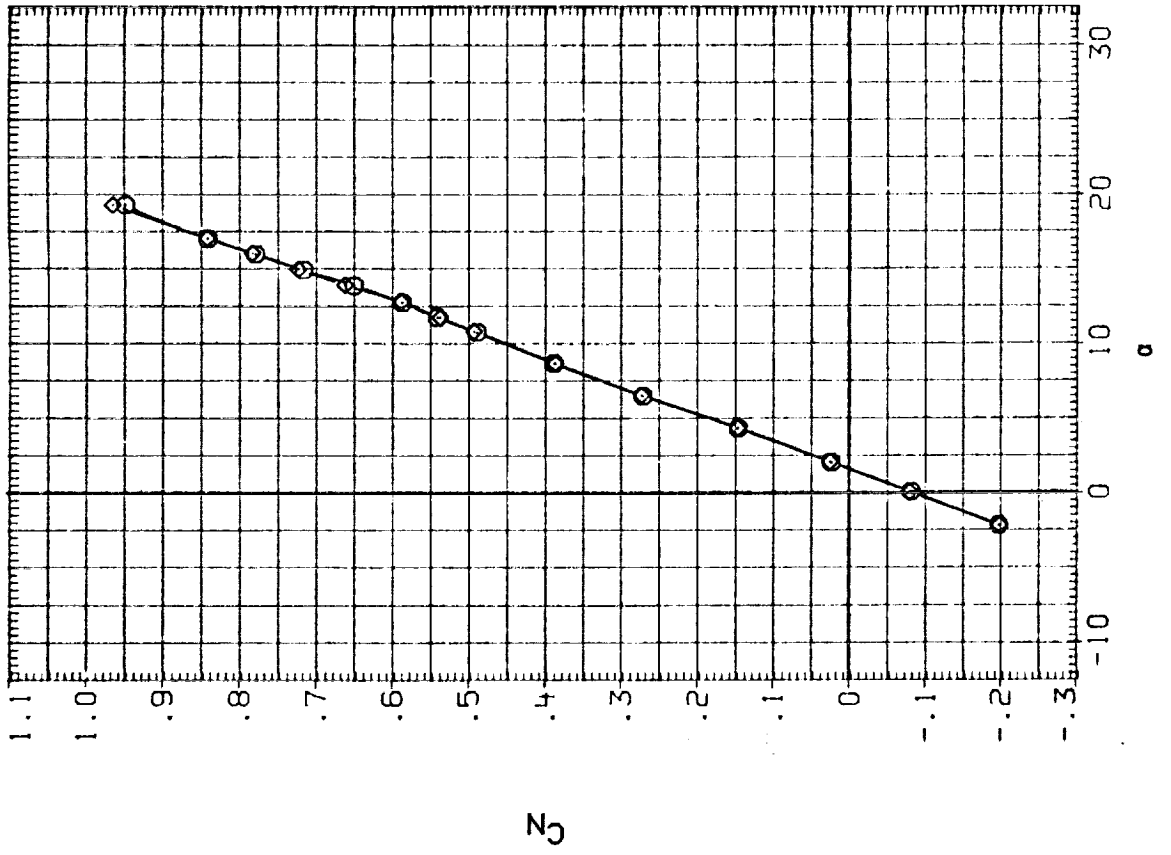


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

REFERENCE INFORMATION

| | | |
|------|-----------|---------|
| SREF | 2690.0000 | SQ. FT. |
| LREF | 474.8000 | INCHES |
| BREF | 936.6900 | INCHES |
| XMRP | 1076.7000 | IN. X0 |
| YMRP | .0000 | IN. Y0 |
| ZMRP | 375.0000 | IN. Z0 |

SCALE .0150

BETA -2.000
 4.500
 4.500
 2.000

RN/L 4.500
 4.500
 4.500

ELEVON .000
 .000
 .000

AILRON .000
 .000
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK047) DATA NOT AVAILABLE
 (RUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK042) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

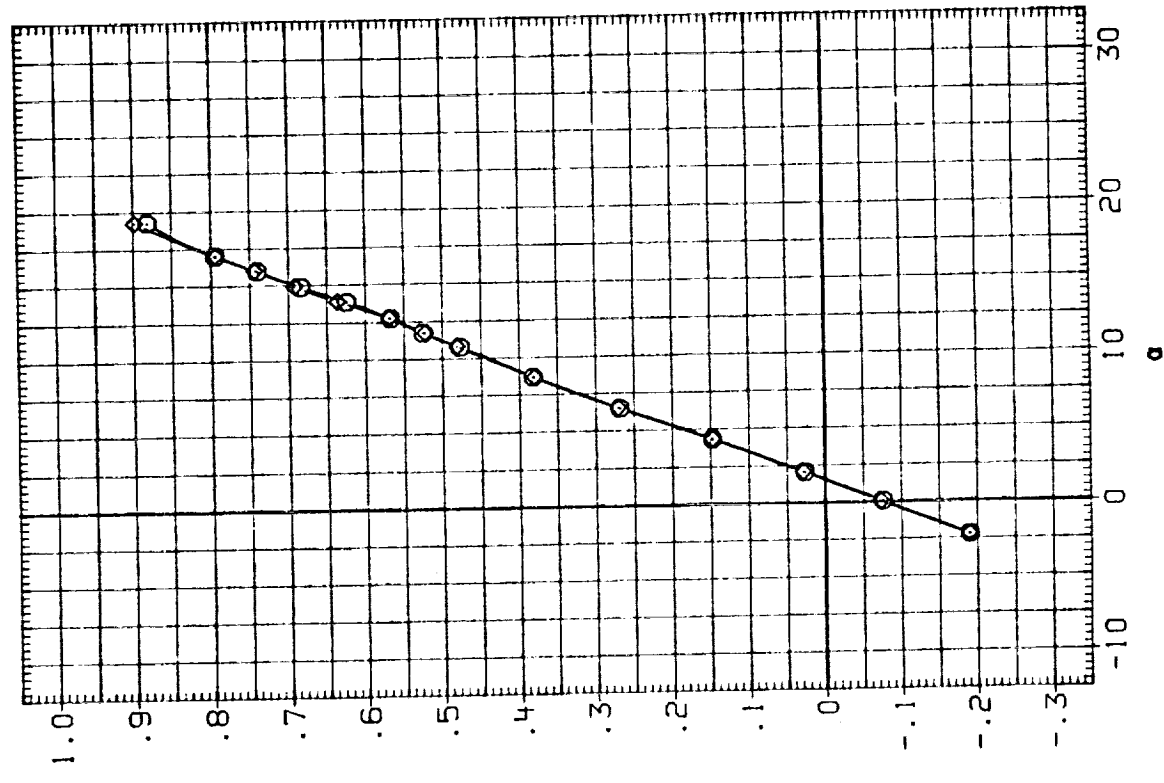
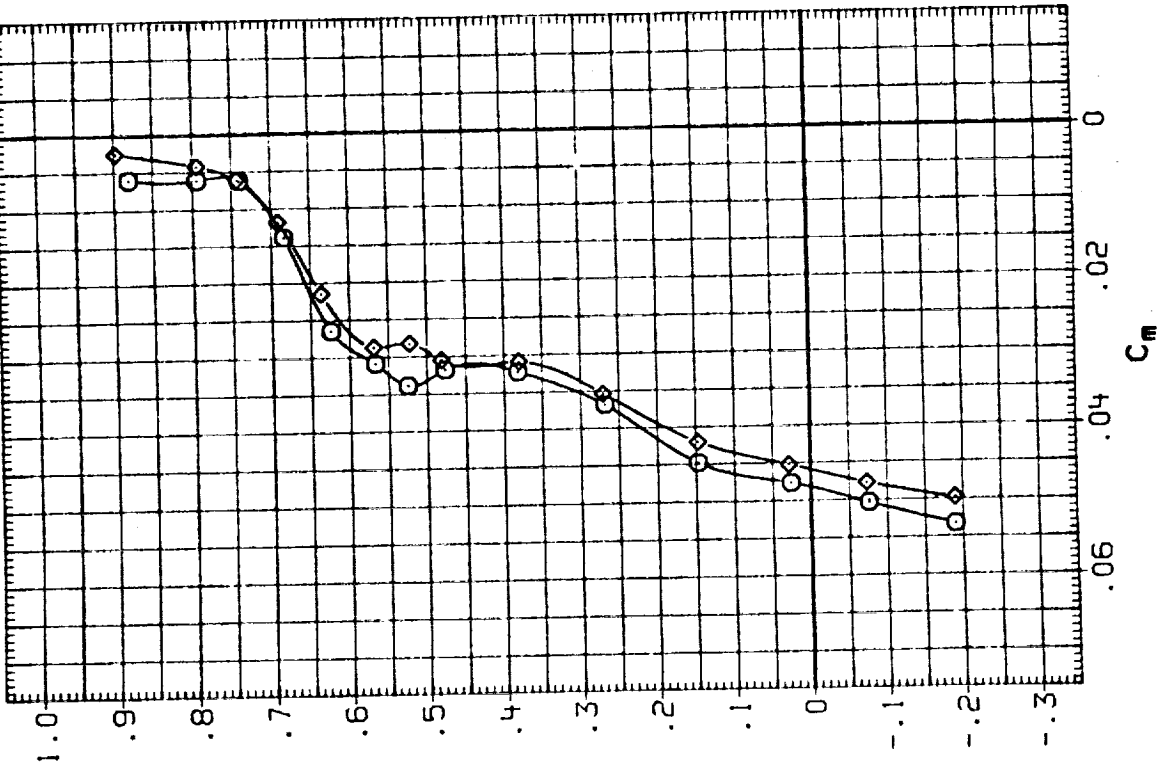


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK047) DATA NOT AVAILABLE

(RUK028) LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK042) LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

BETA -2.000
 .000
 2.000

RN/L 4.500
 4.500
 4.500

ELEVON .000
 .000
 .000

AIRLON .000
 .000
 .000

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

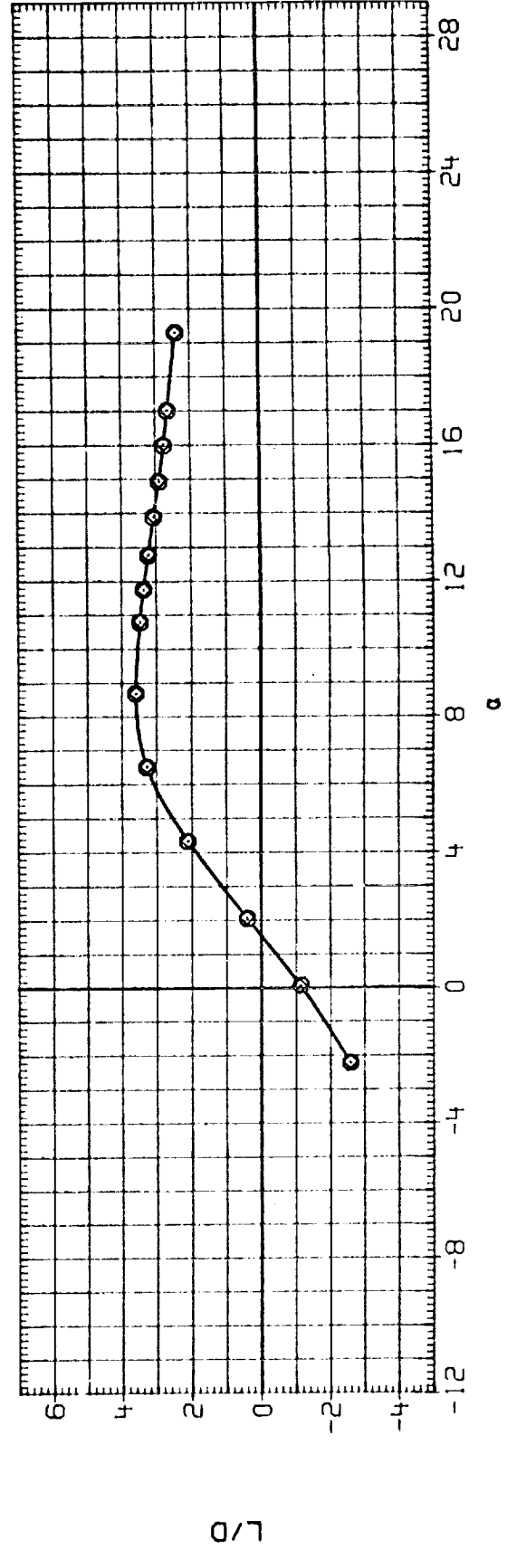
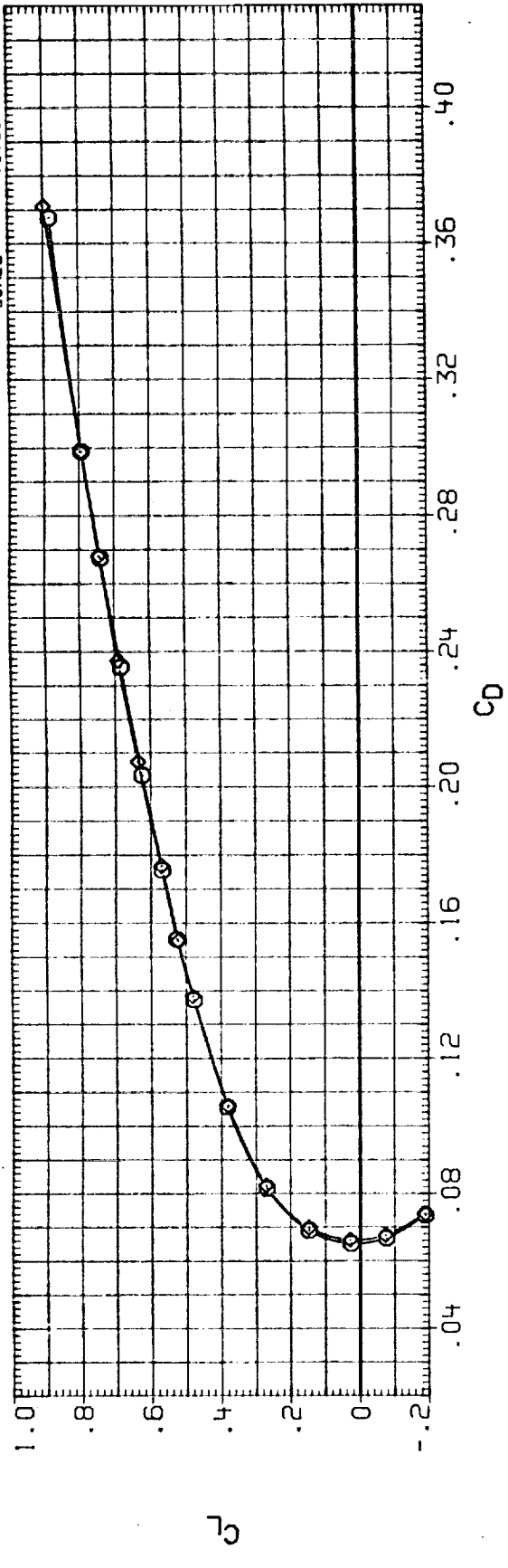


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = .80

DATA SET SYMBOL
 (RUK047)
 (RUK028)
 (RUK042)

CONFIGURATION DESCRIPTION
 DATA NOT AVAILABLE
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA
 -2.000
 .000
 2.000

RN/L
 4.500
 4.500
 4.500

ELEVON
 .000
 .000
 .000

AILRON
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

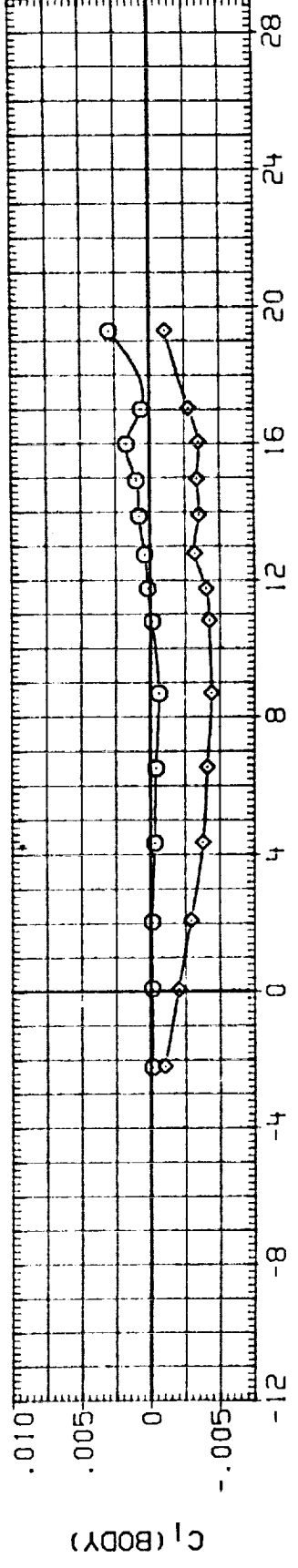
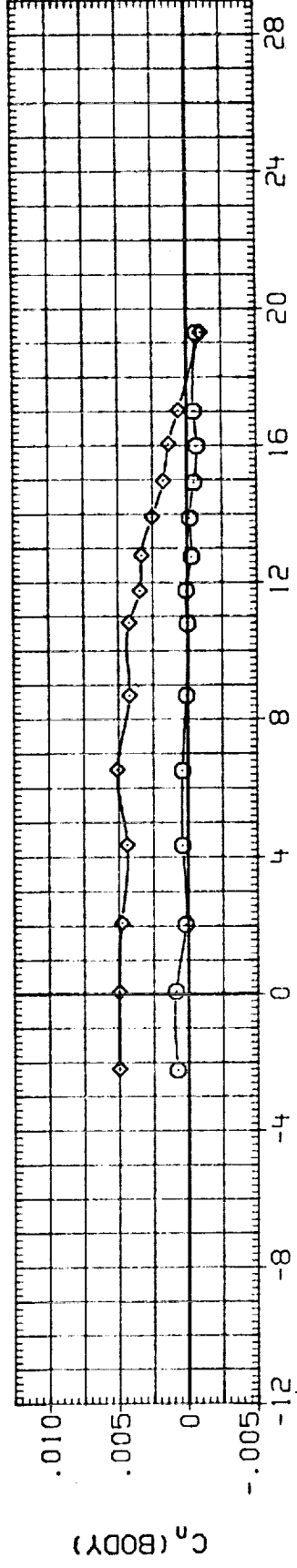
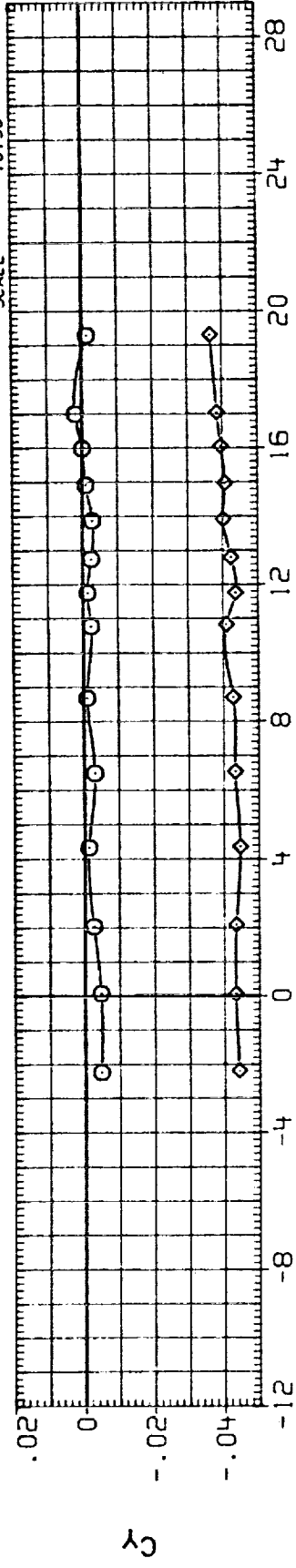


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = .80

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
| (CUK047) | DATA NOT AVAILABLE | -2.000 | 4.500 | .000 | .000 | SREF 2690.0000 SO. FT. |
| (CUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK042) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 2.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | YMFP 1076.7000 IN. XO |
| | | | | | | ZMFP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

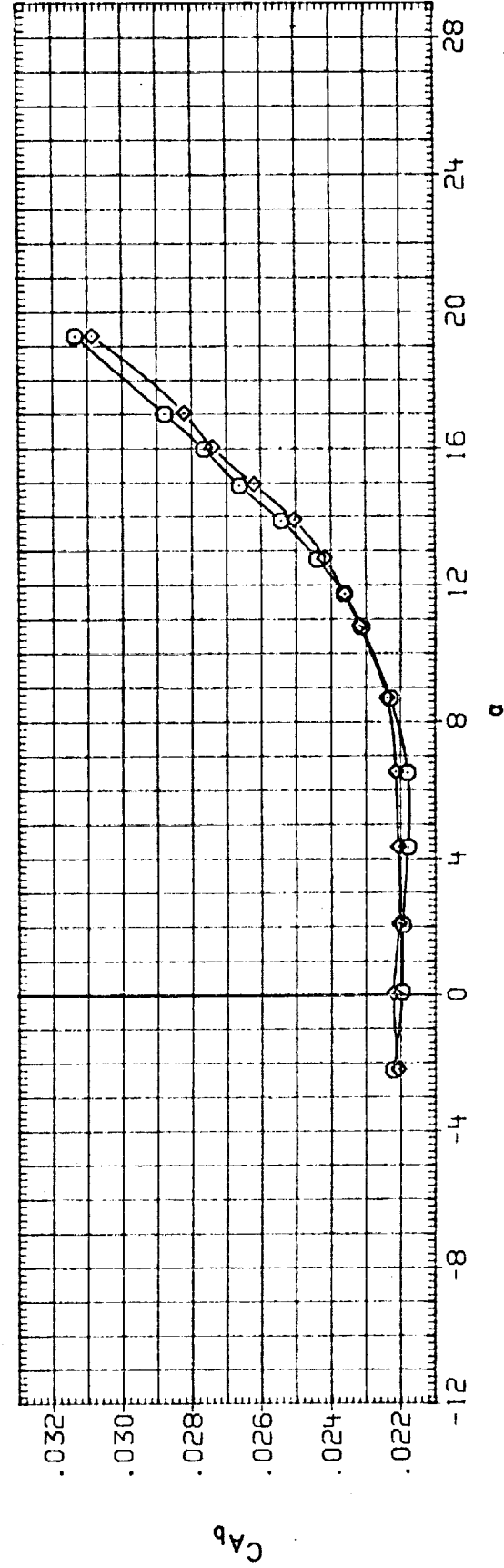
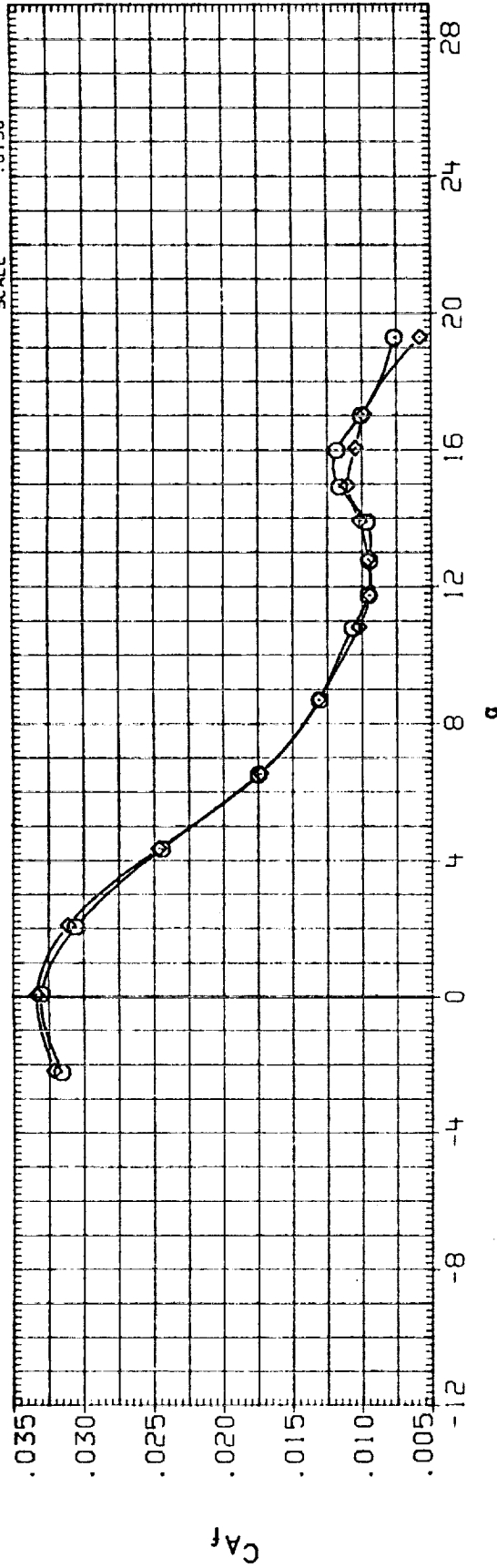


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK0471) DATA NOT AVAILABLE

(CUK028) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(CUK042) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIRLON

-2.000 4.500 .000 .000

.000 4.500 .000 .000

2.000 4.500 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

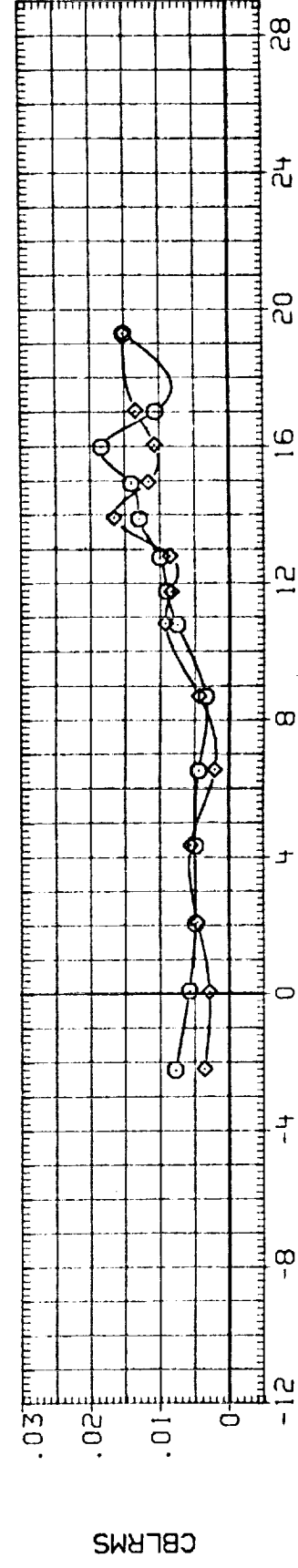
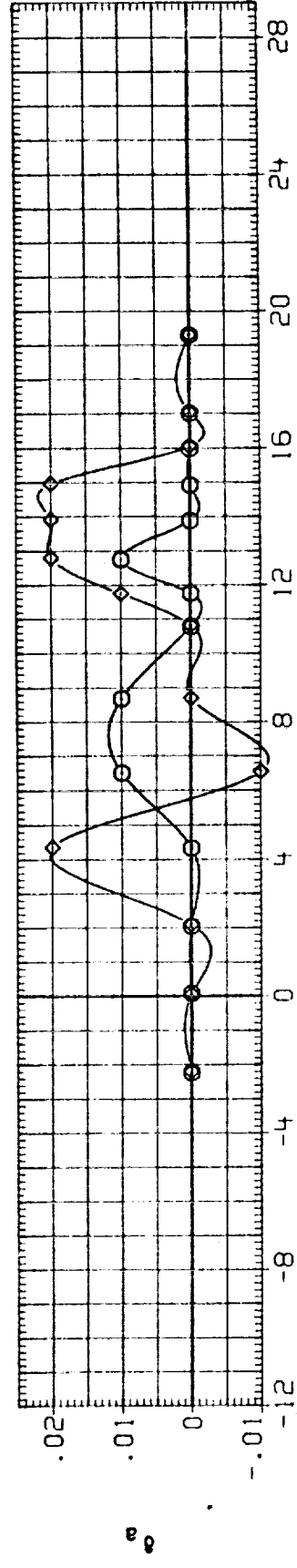
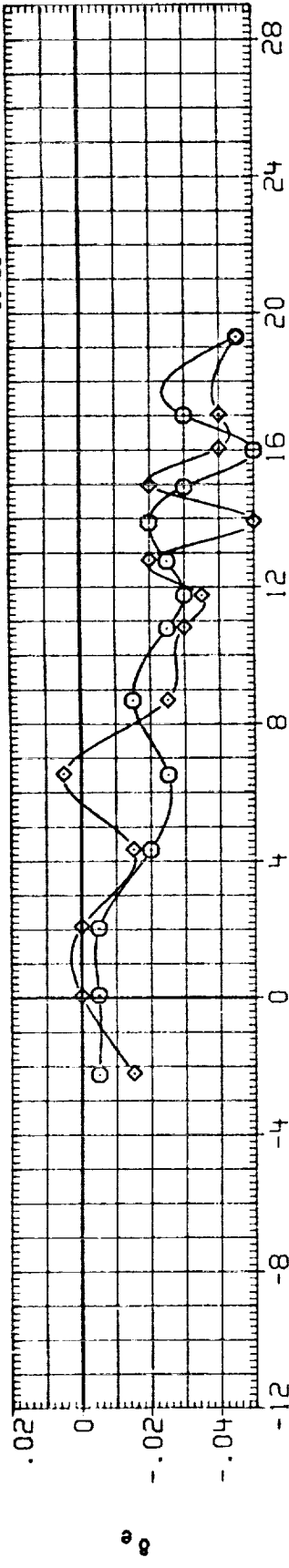


FIG. 30 EFFECT OF SIDESLIP, ELEVON=0

(A) MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK047) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA -2.000
 -2.000
 2.000

RM/L 4.500
 4.500
 4.500

ELEVON .000
 .000
 .000

AIRLON .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

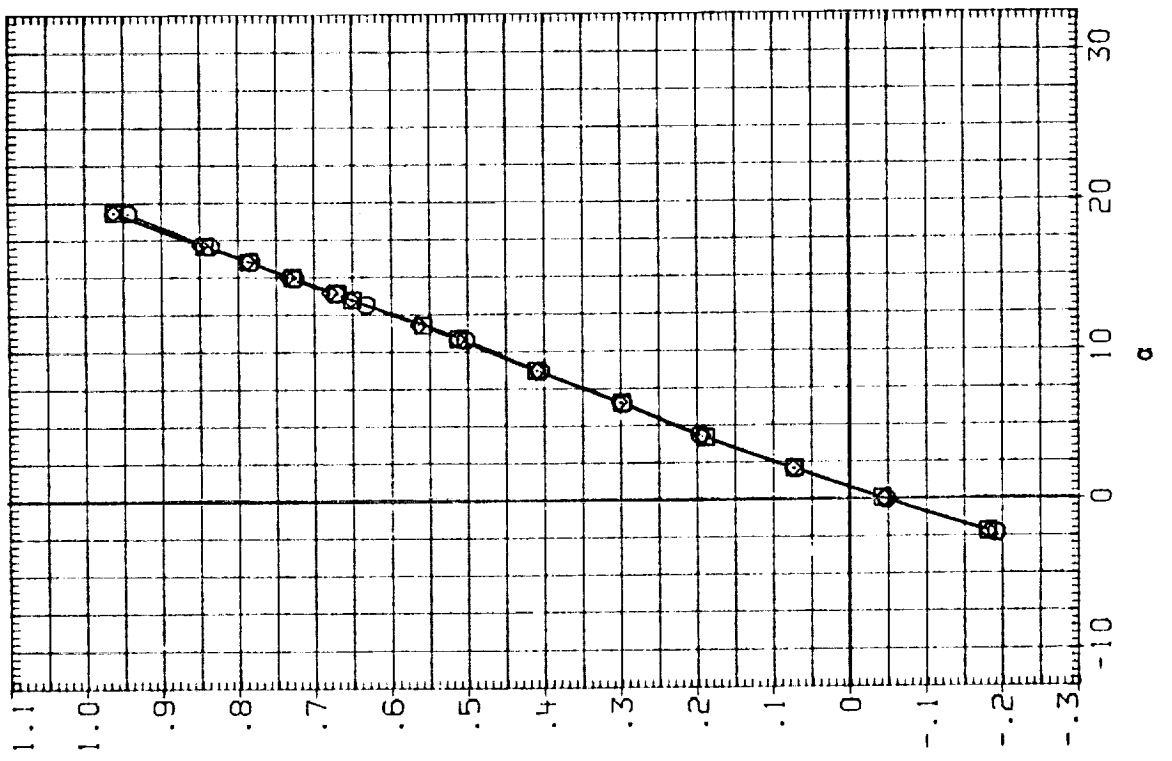
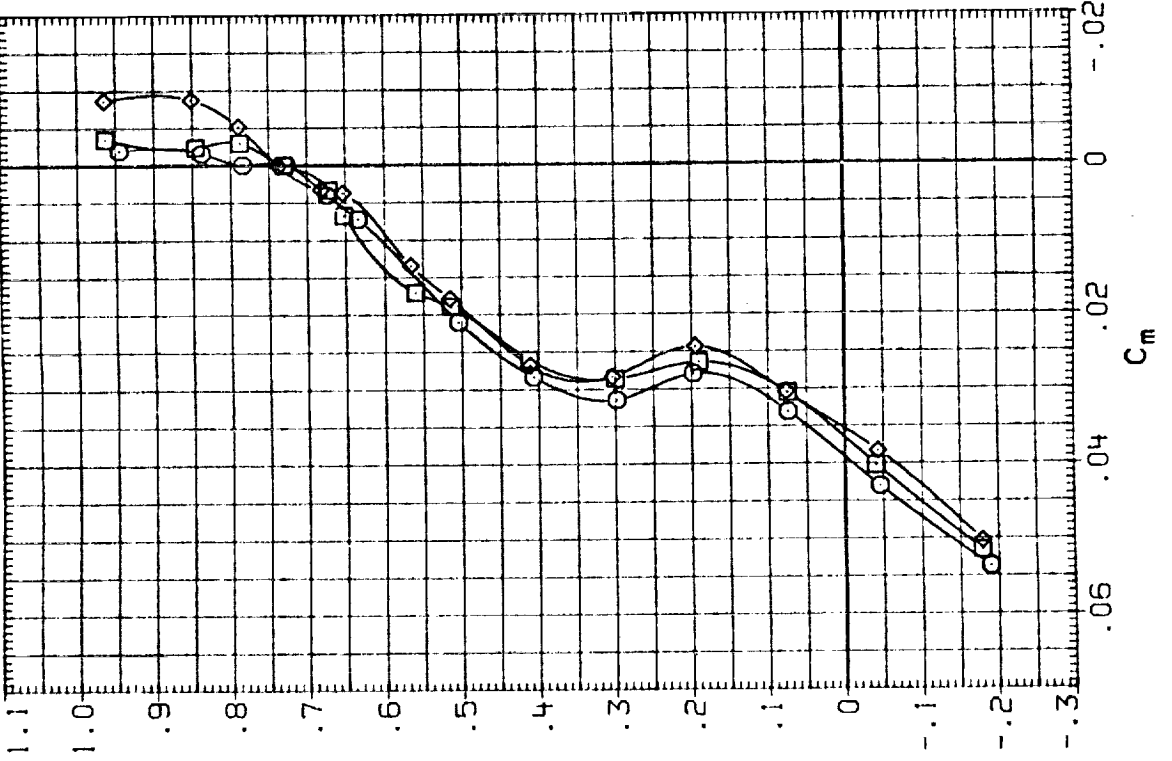


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .90

DATA SET SYMBOL
 (RUK047) □
 (RUK028) ○
 (RUK042) ◇

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA
 -2.000
 .000
 2.000

RN/L
 4.500
 4.500
 4.500

ELEVON
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BRREF 936.6800 INCHES
 YMRP 1076.7000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

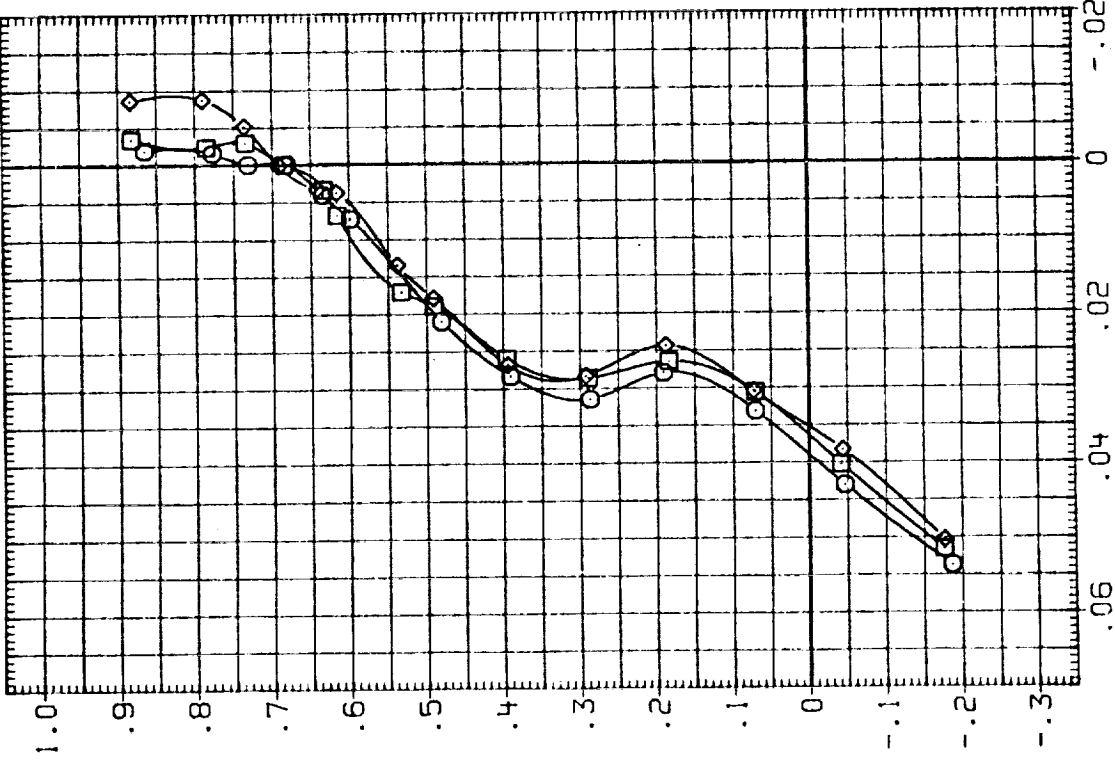
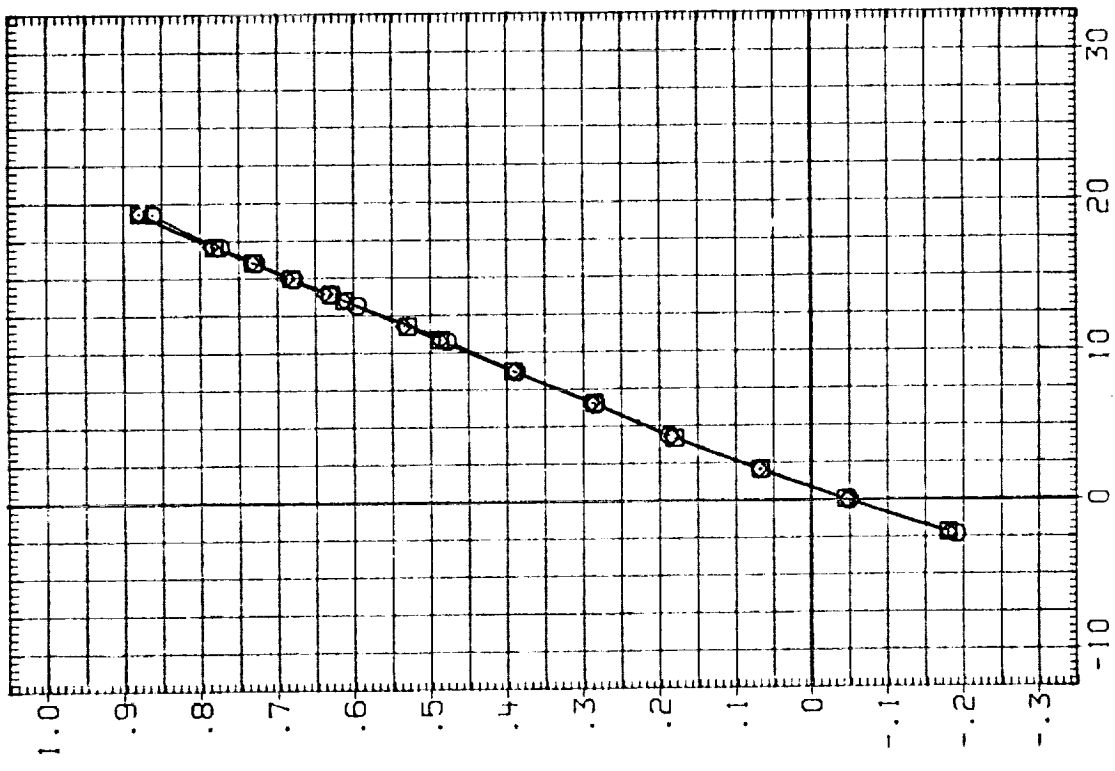


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|-----------------------|
| (RUK047) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -2.000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK028) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK042) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 2.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

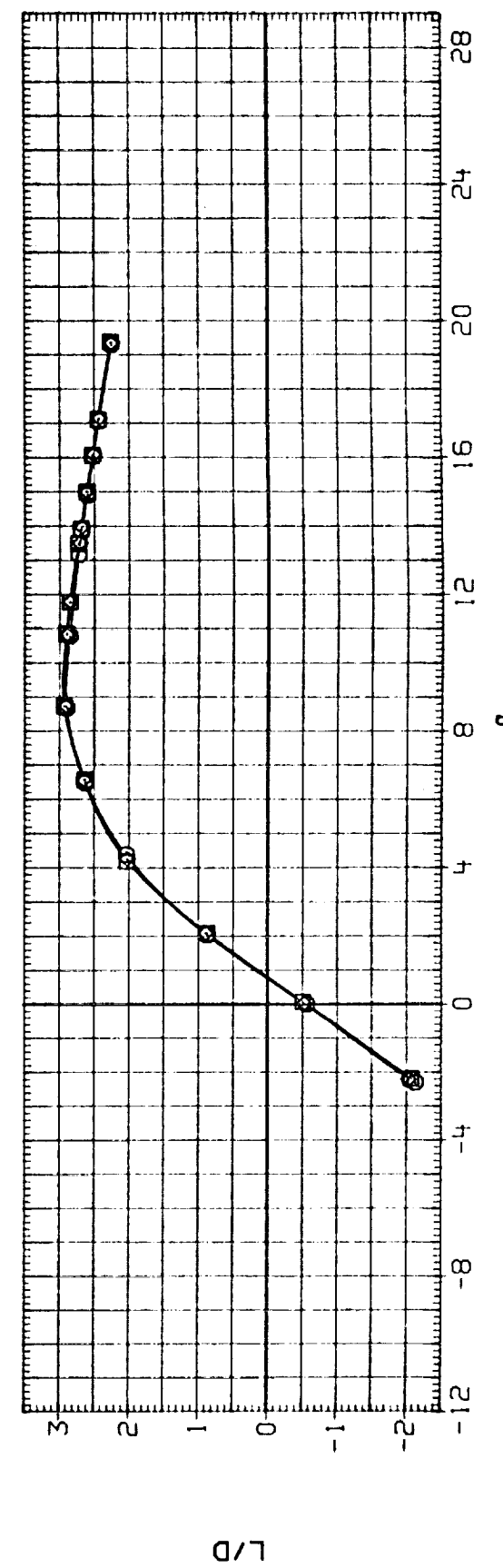
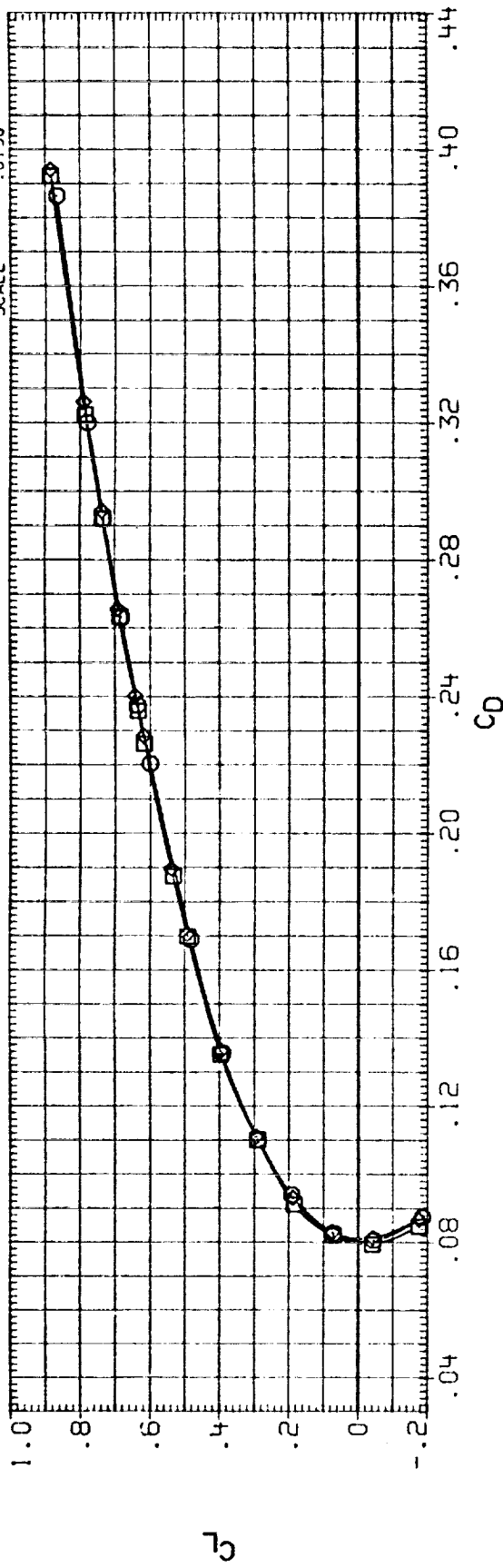


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .90

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|--------|--------|------------------------|
| (RUK047) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | -2.000 | 4.500 | .000 | .000 | SREF 2690.0000 SO. FT. |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK042) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 2.000 | 4.500 | .000 | .000 | BREF 935.6900 INCHES |
| | | | | | | XPRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

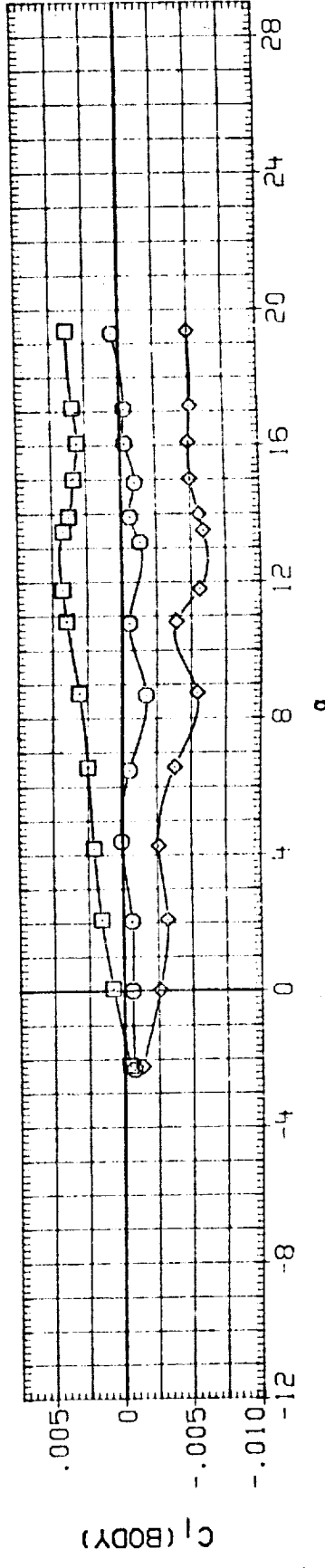
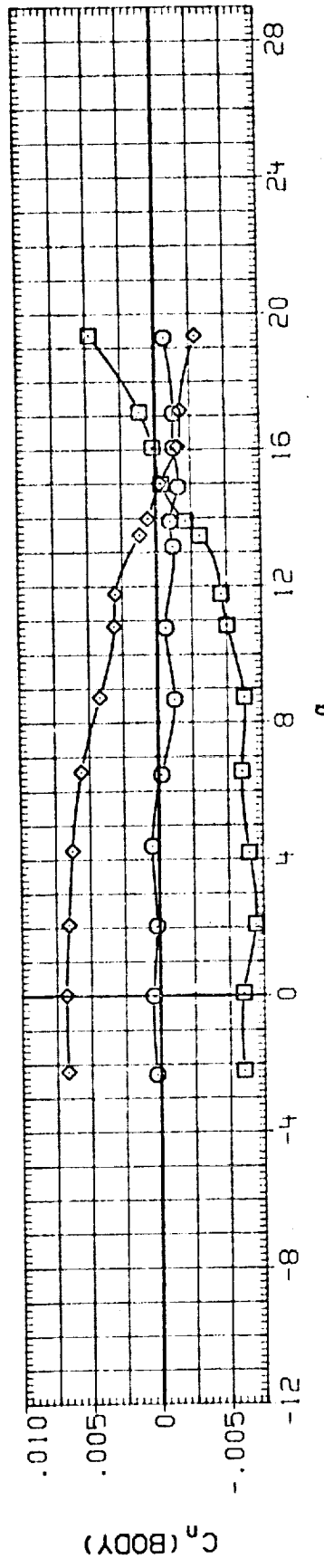
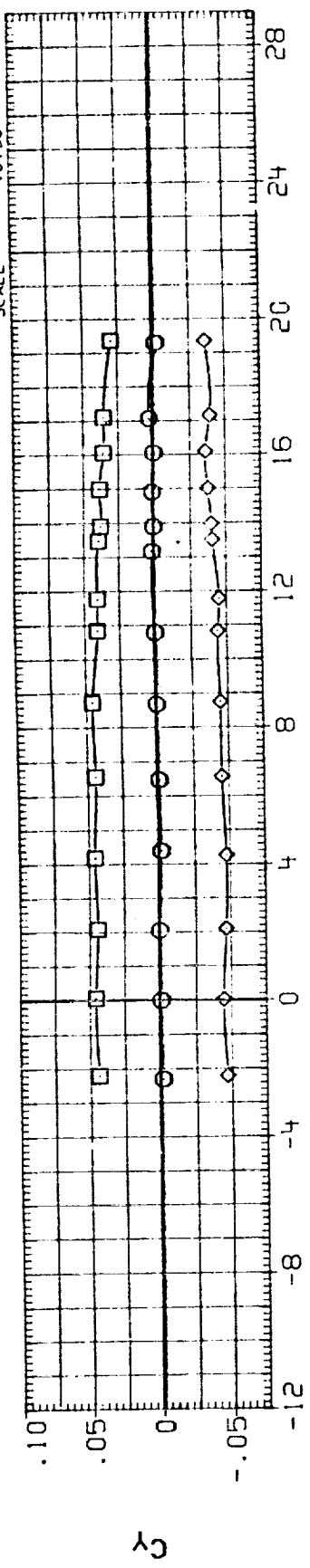


FIG. 30 EFFECT OF SIDESLIP, ELEVON=0

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

| | | |
|----------|---|--|
| (CUK047) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (CUK028) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |
| (CUK042) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) |

BETA RN/L ELEVON AILIRON

| | | | |
|--------|-------|------|------|
| -2.000 | 4.500 | .000 | .000 |
| .000 | 4.500 | .000 | .000 |
| 2.000 | 4.500 | .000 | .000 |

REFERENCE INFORMATION

| | | |
|------|-----------|--------|
| SREF | 2690.0000 | SO.FT. |
| LREF | 474.8000 | INCHES |
| BREF | 936.6800 | INCHES |
| XMRP | 1076.7000 | IN. XO |
| YMRP | .0000 | IN. YO |
| ZMRP | 375.0000 | IN. ZO |

SCALE .0150

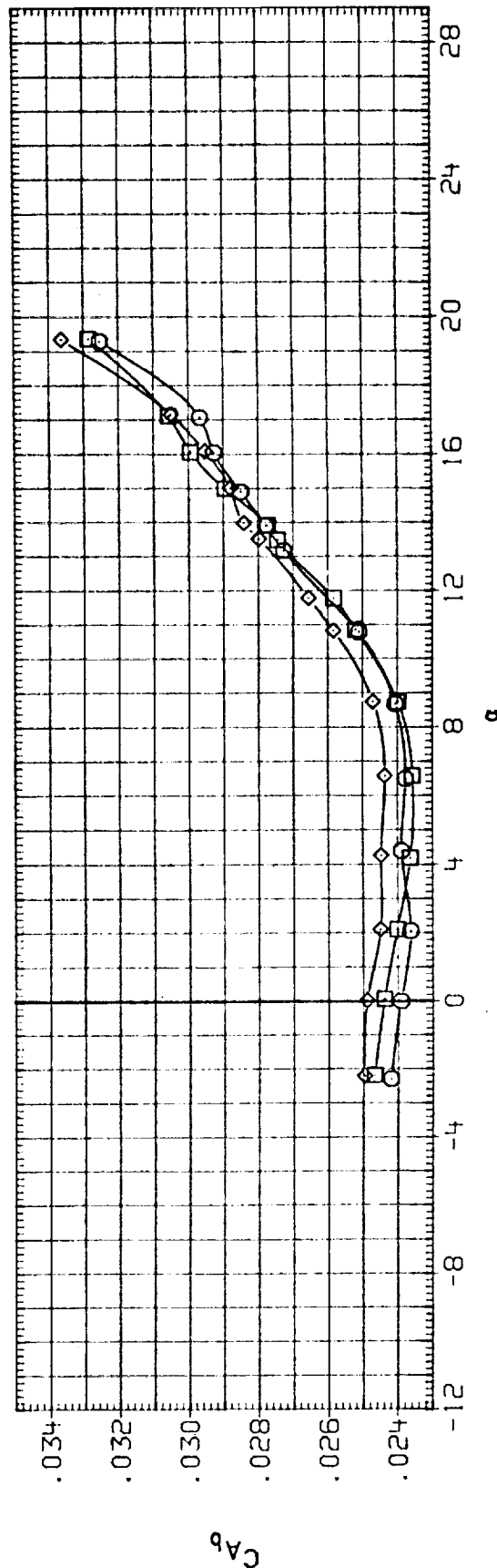
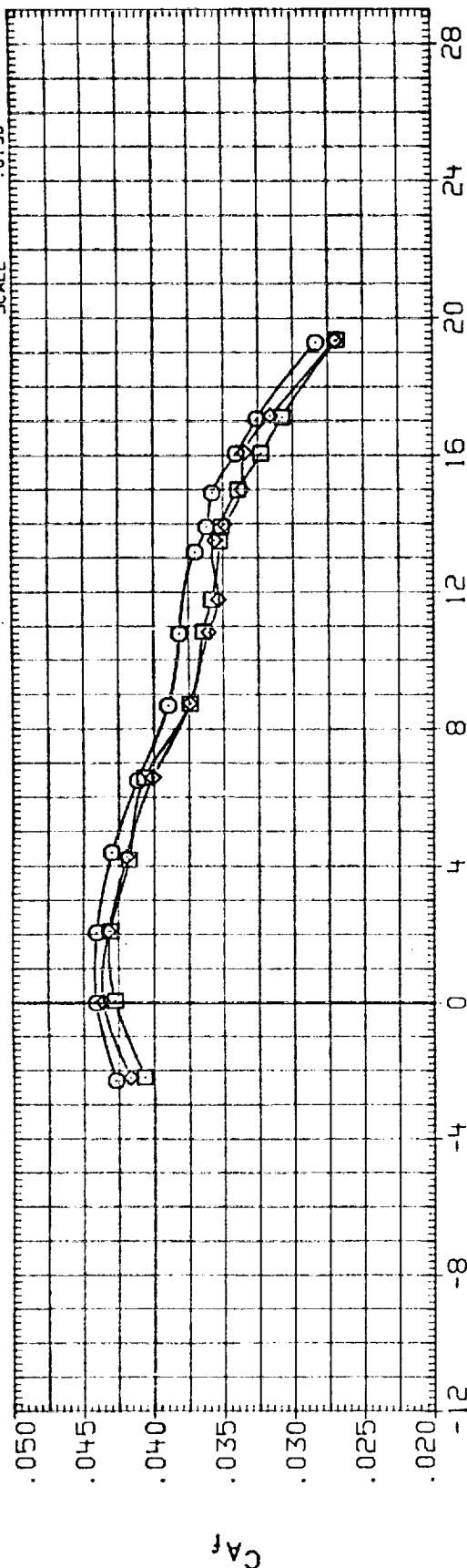


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK0471) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA -2.000
 .000
 2.000

RN/L 4.500
 4.500
 4.500

ELEVON .000
 .000
 .000

AIRLON .000
 .000
 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

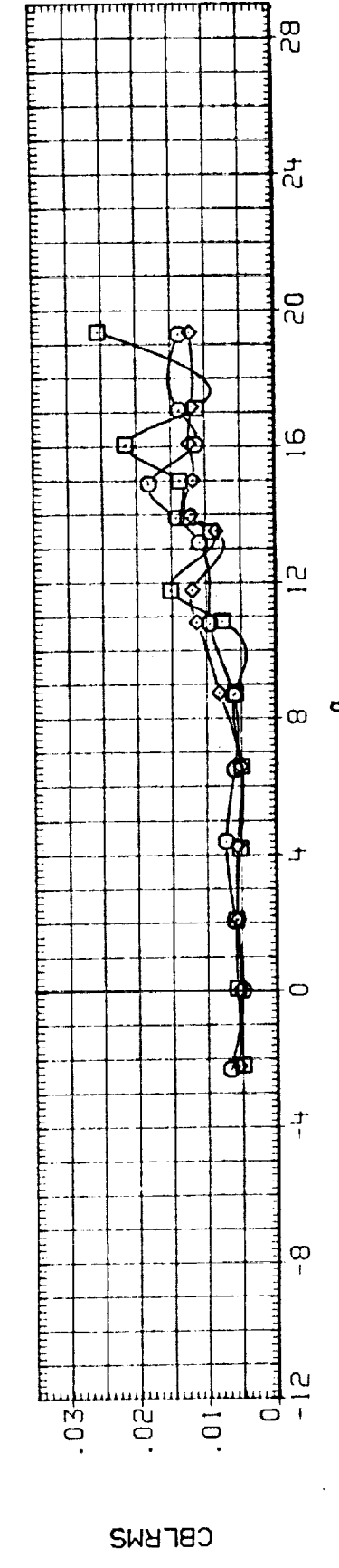
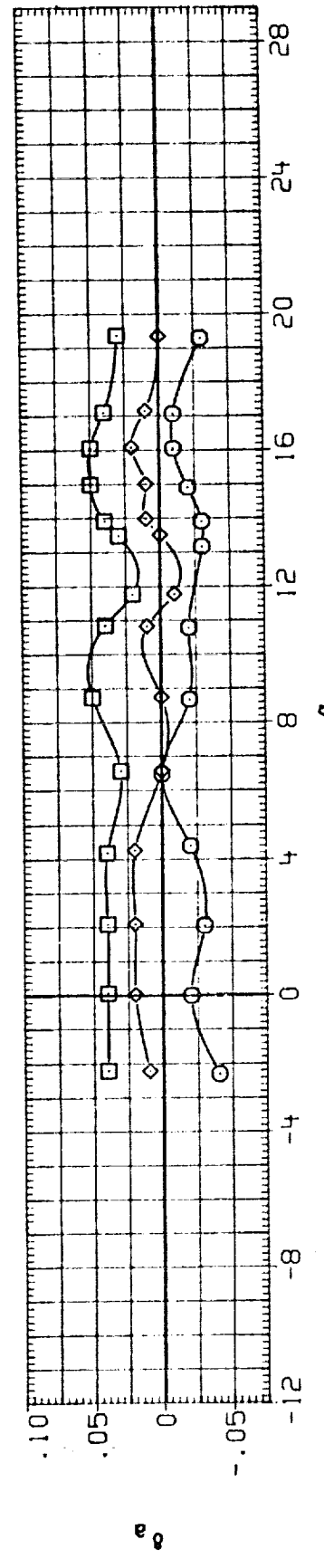
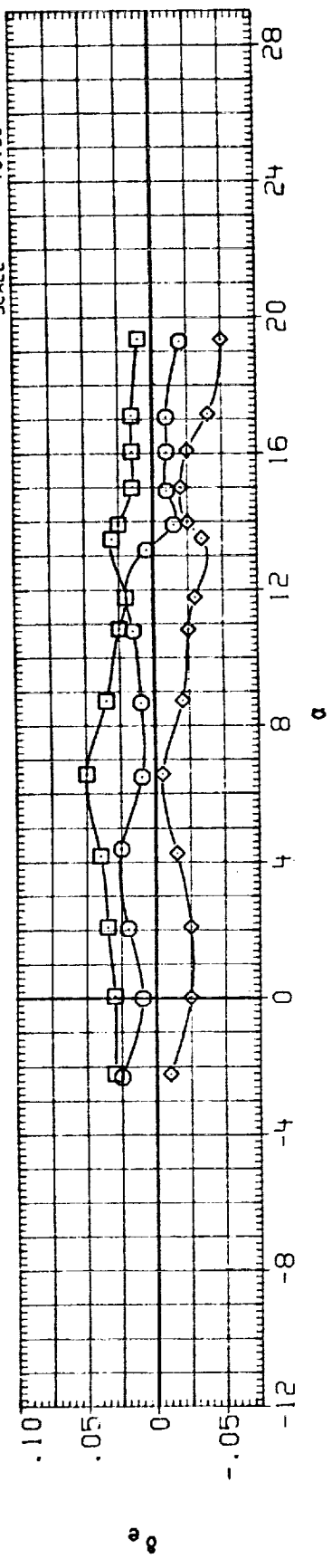


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK047) □ DATA NOT AVAILABLE
 (RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA -2.000
 RN/L 4.500
 ELEVON .000
 AILRON .000

REFERENCE INFORMATION

SREF 2690.0000 50.FT.
 LREF 474.6000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

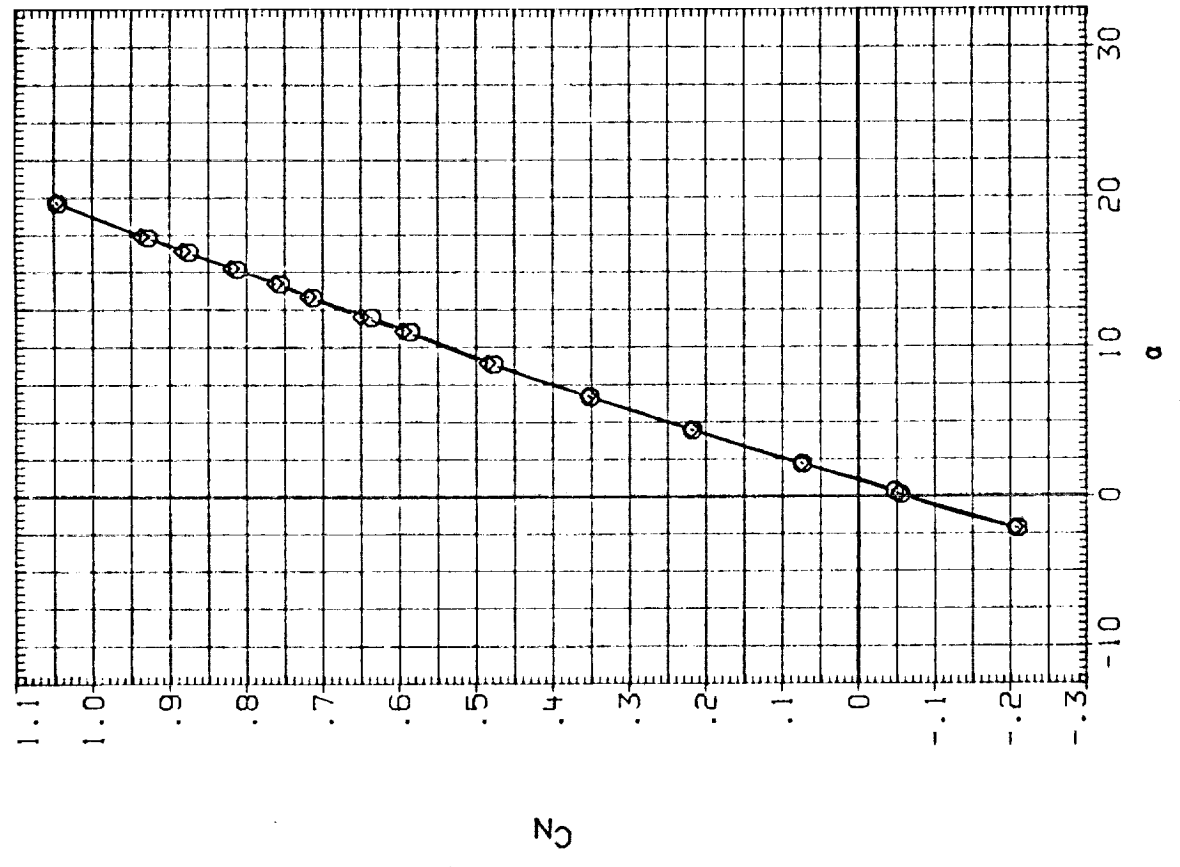
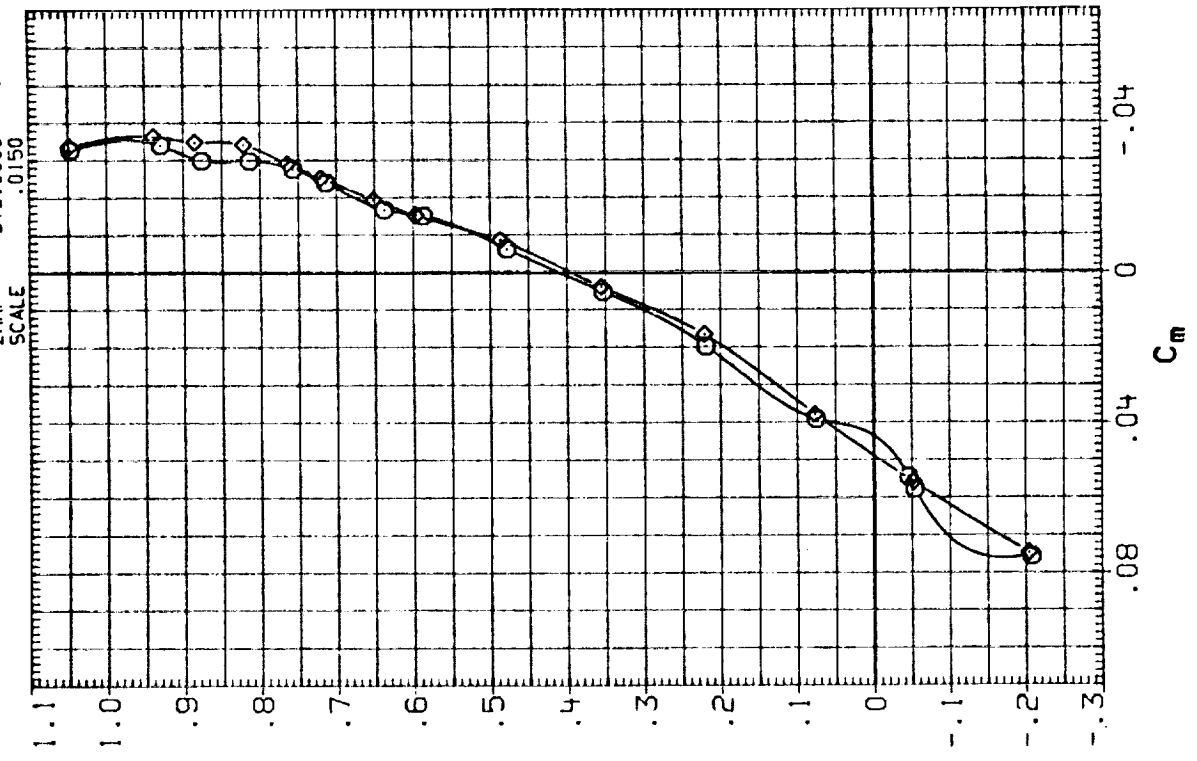
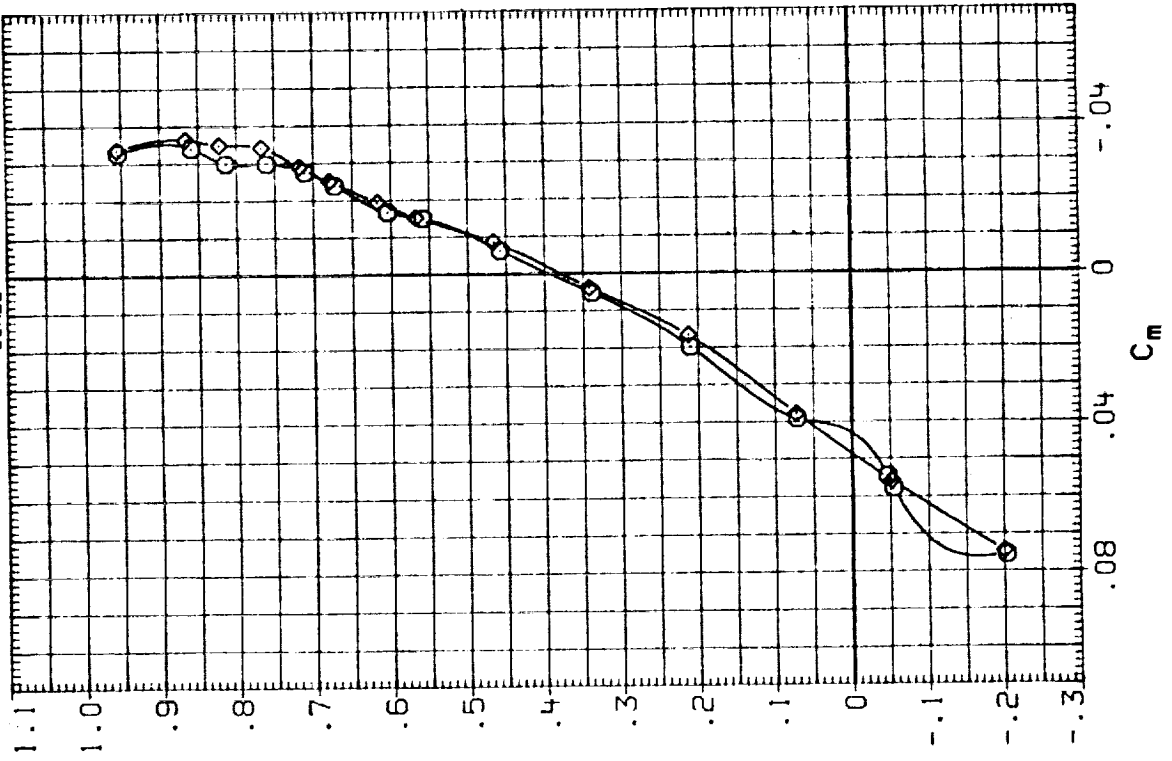


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .95

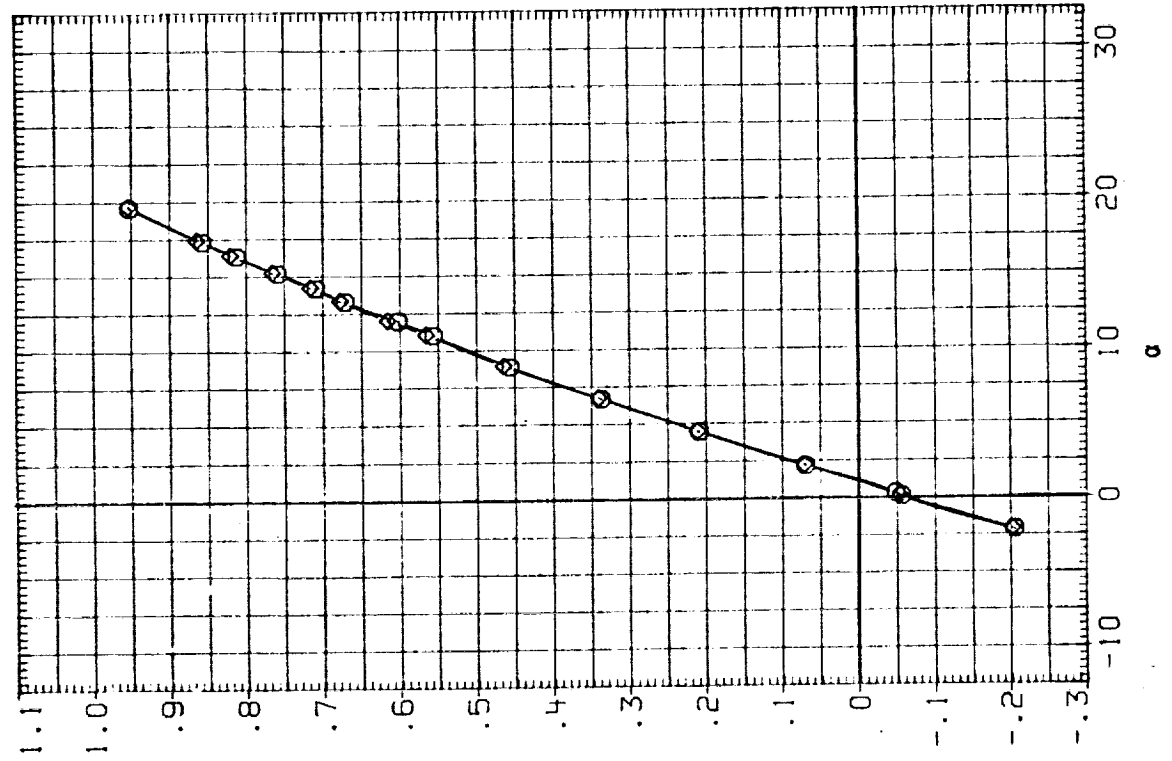
REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

BETA -2.000
 RN/L 4.500
 ELEVON .000
 AIRLON .000



b

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK047) □ DATA NOT AVAILABLE
 (RUK028) ○ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)
 (RUK042) ◇ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)



a

FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK047) □ DATA NOT AVAILABLE
 (RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIRLON

-2.000 4.500 .000 .000
 .000 4.500 .000 .000
 2.000 4.500 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 50.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

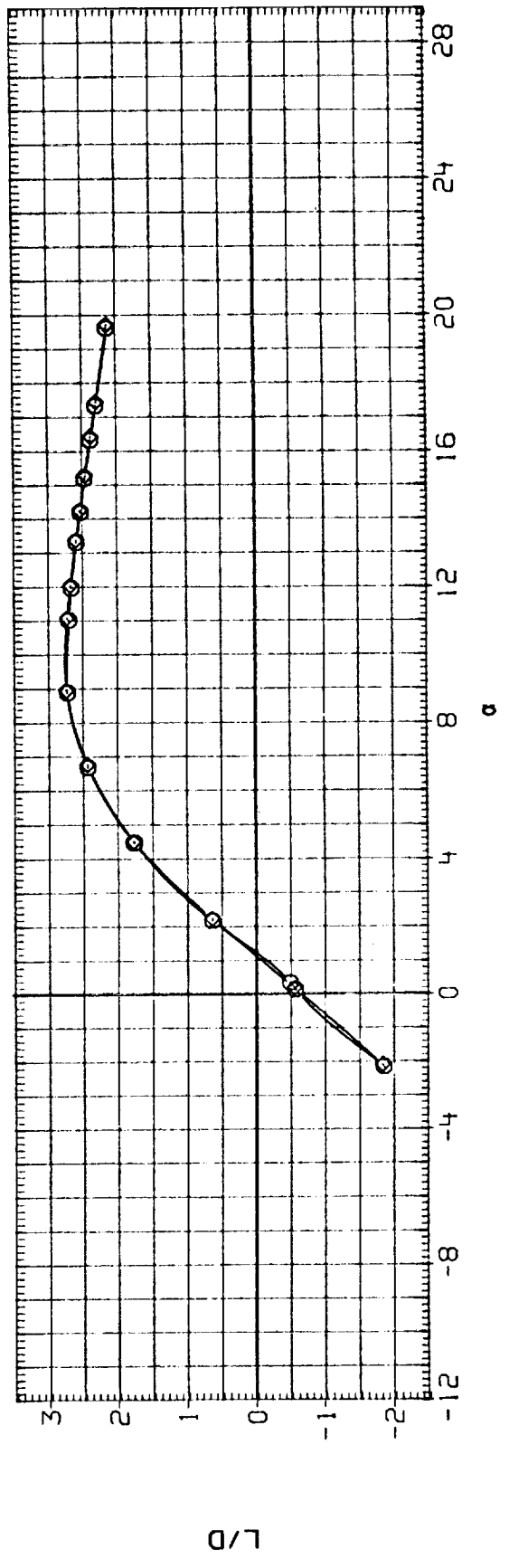
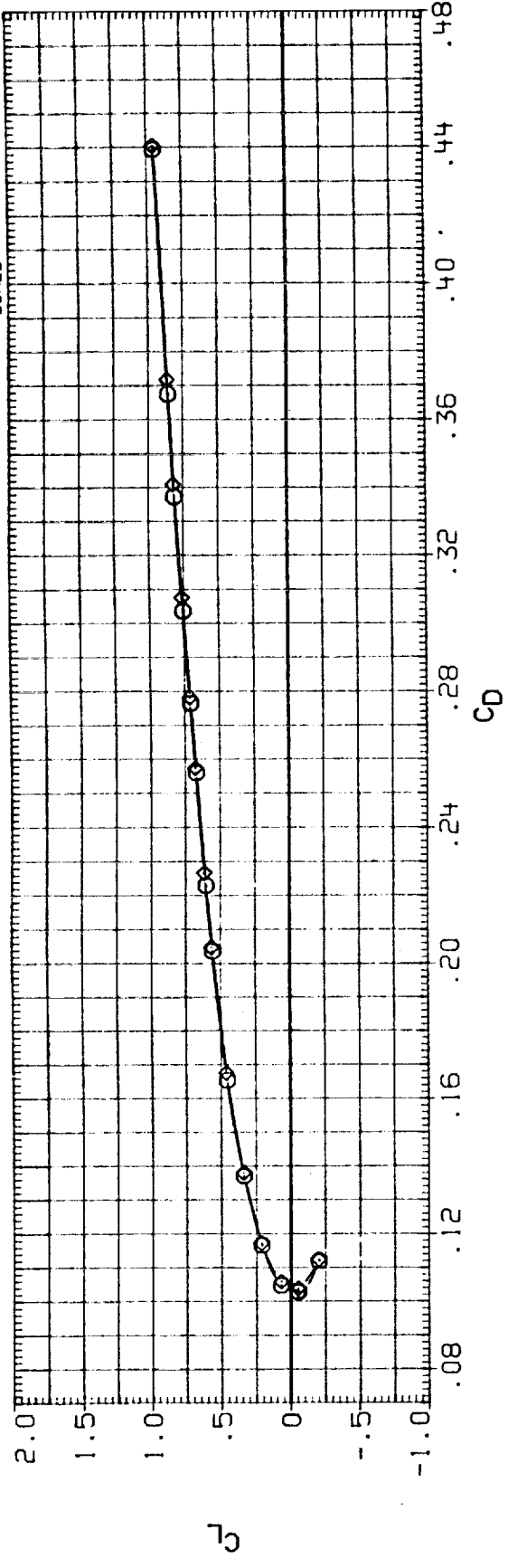


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK047) □ DATA NOT AVAILABLE
 (RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA -2.000
 RN/L 4.500
 ELEVON .000
 AIRLON .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

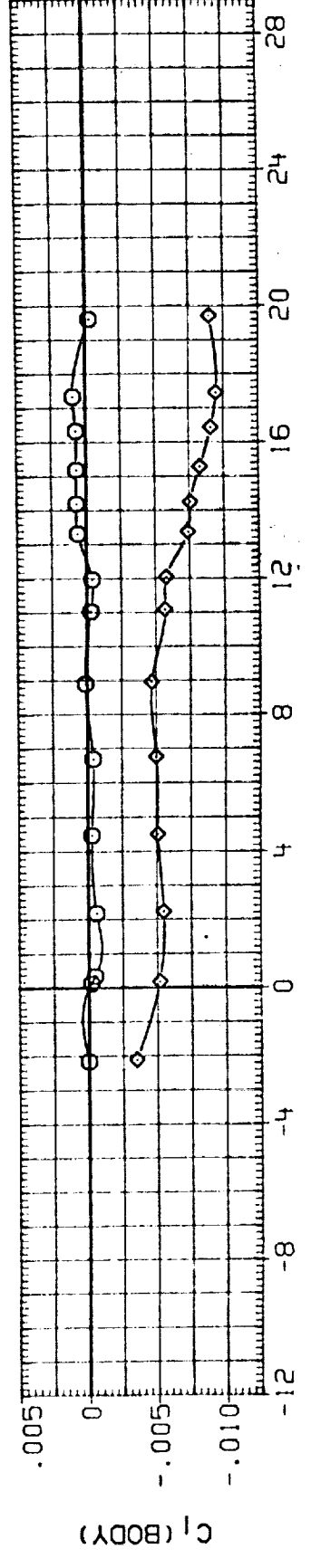
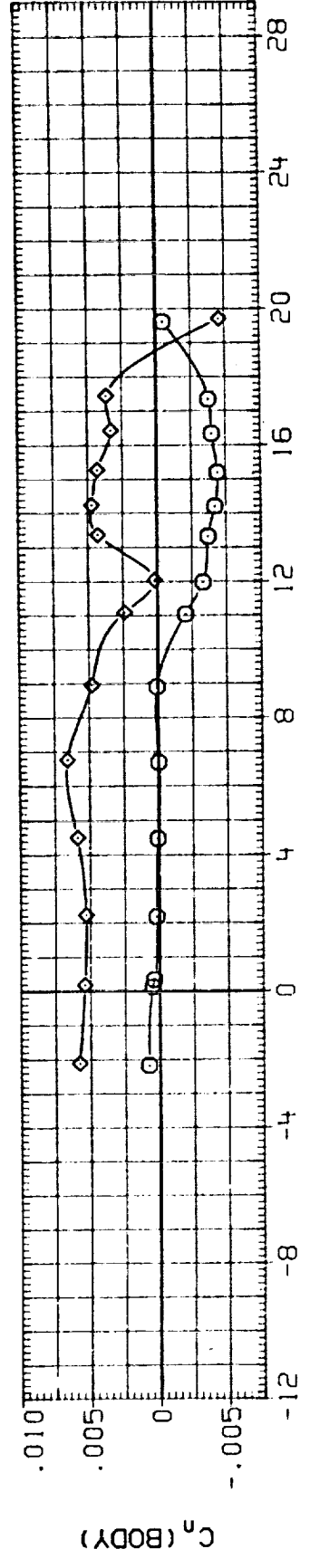
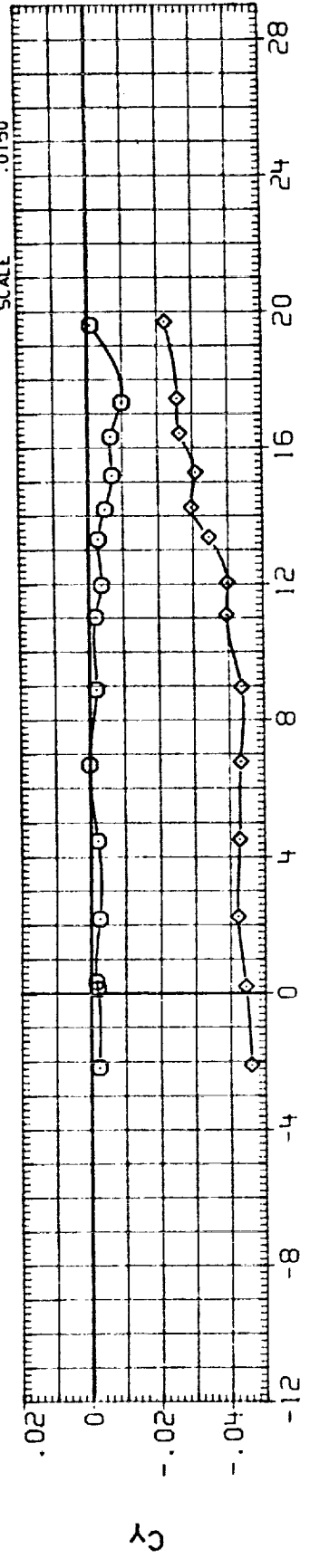


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .95

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RNVL | ELEVON | AIRLON | REFERENCE INFORMATION |
| (CUK0471) | DATA NOT AVAILABLE | -2.000 | 4.500 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (CUK0281) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK042) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 2.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

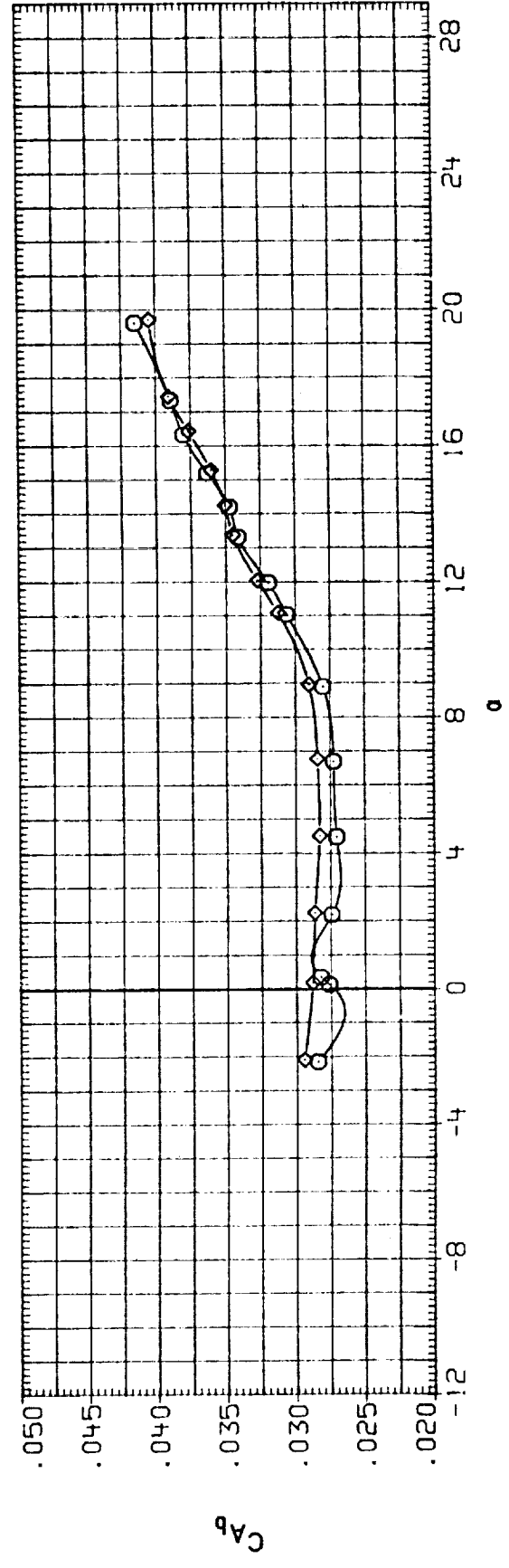
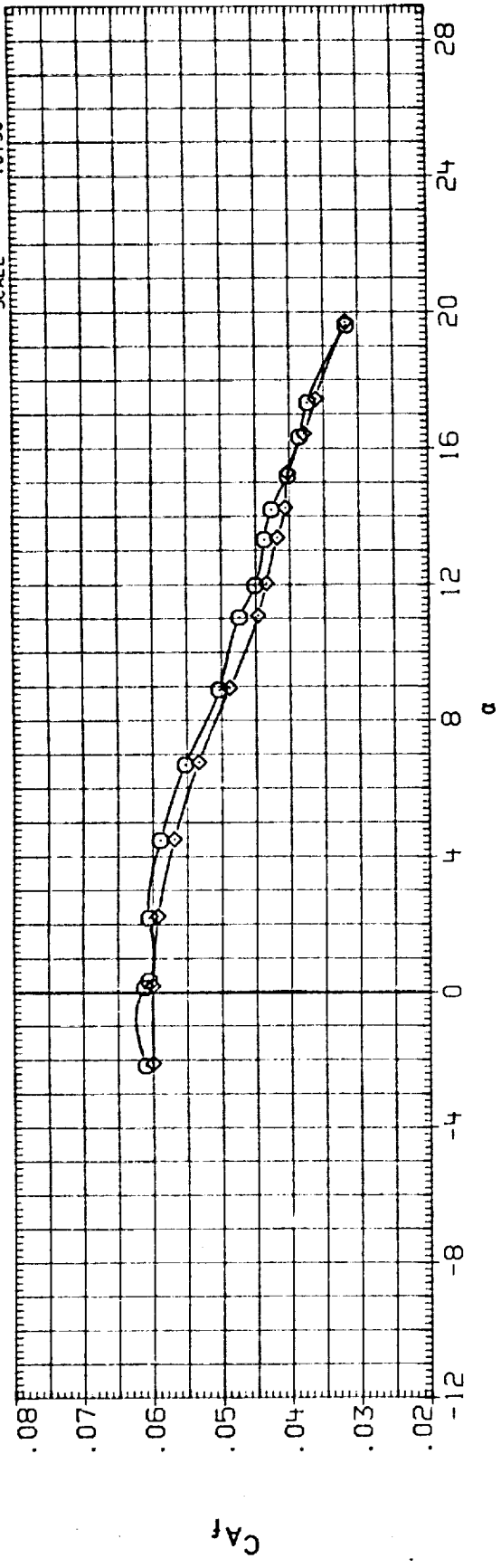


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK047) □ DATA NOT AVAILABLE
 (CUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA -2.000
 FN/L 4.500
 ELEVON .000
 AIRLIRON .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

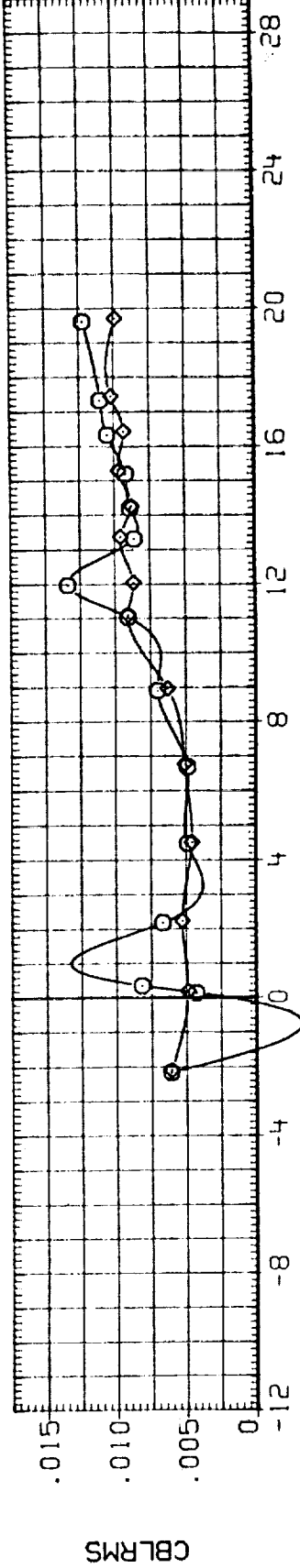
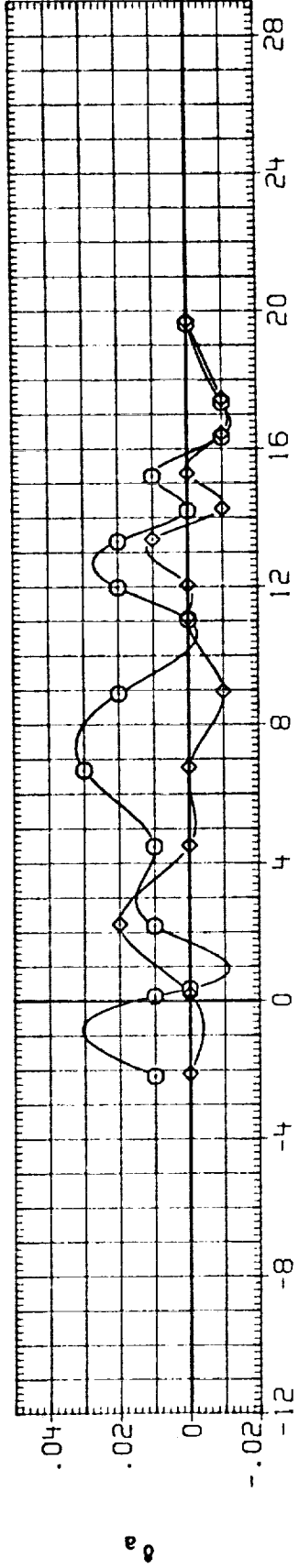
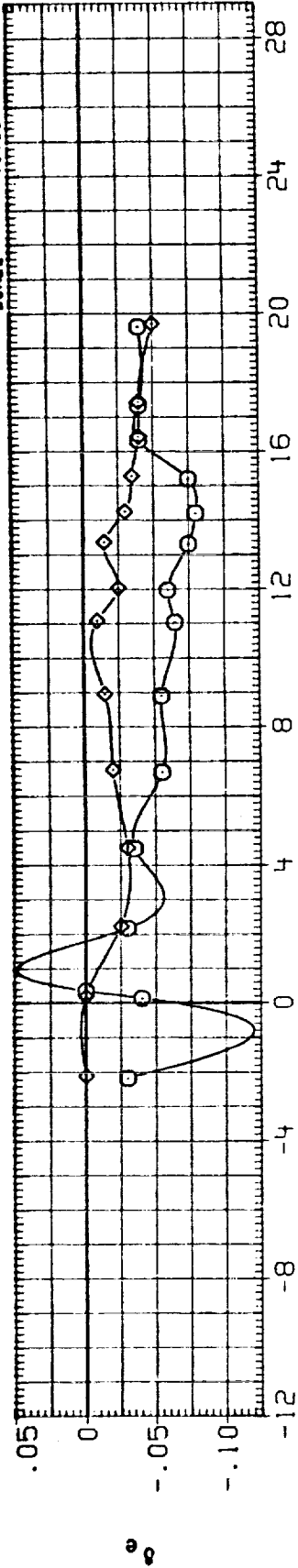


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK047) □ DATA NOT AVAILABLE
 (RUK028) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AILRON
 -2.000 4.500 .000 .000
 .000 4.500 .000 .000
 2.000 4.500 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

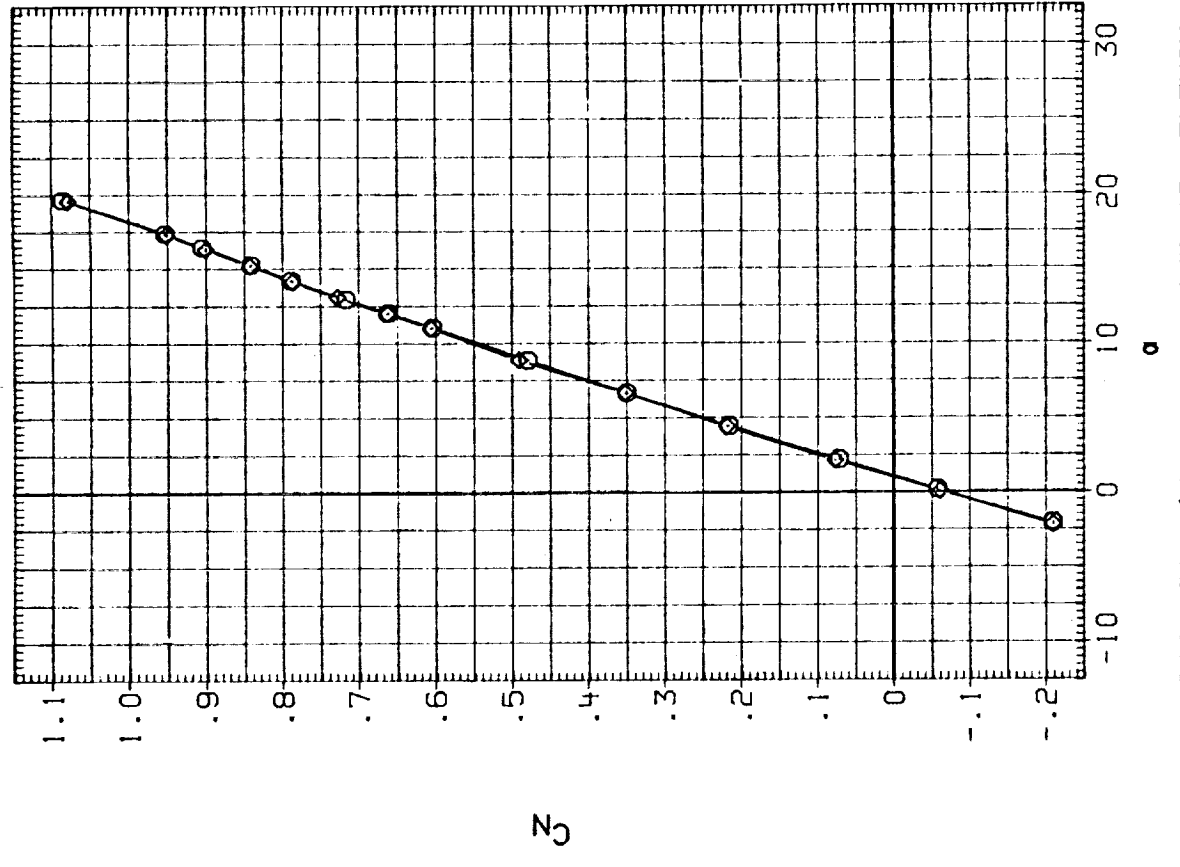
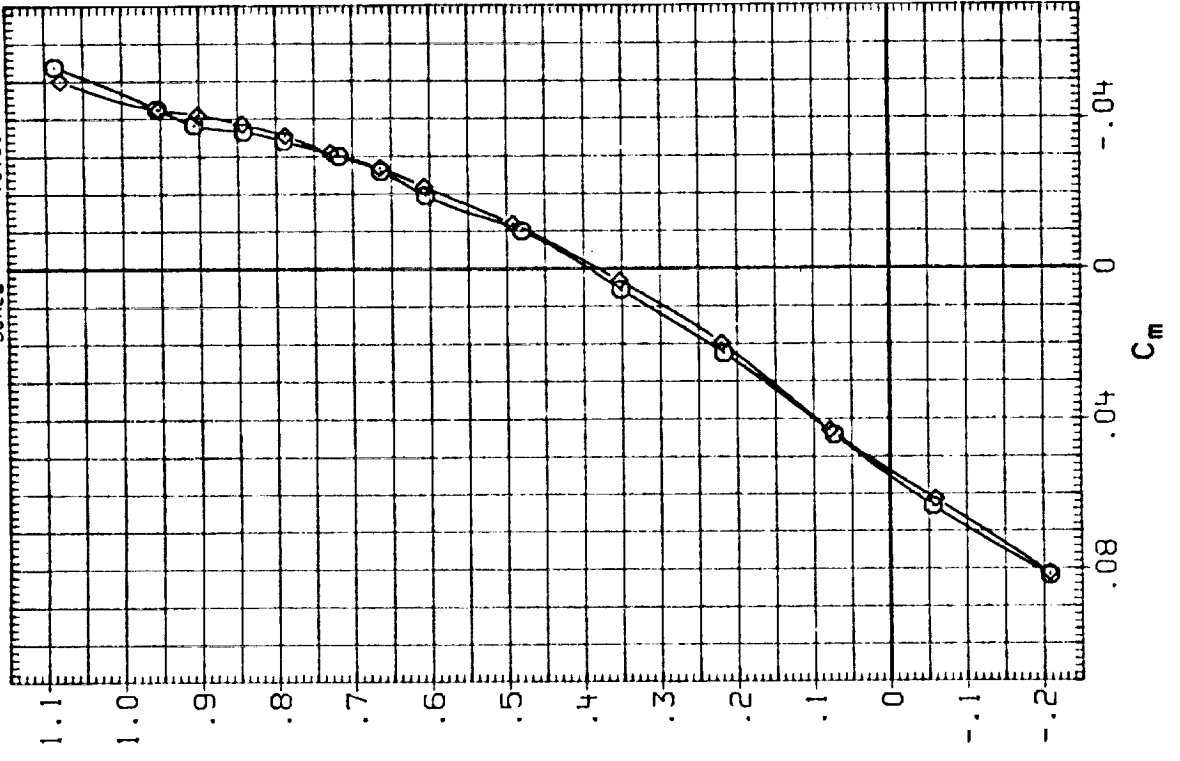
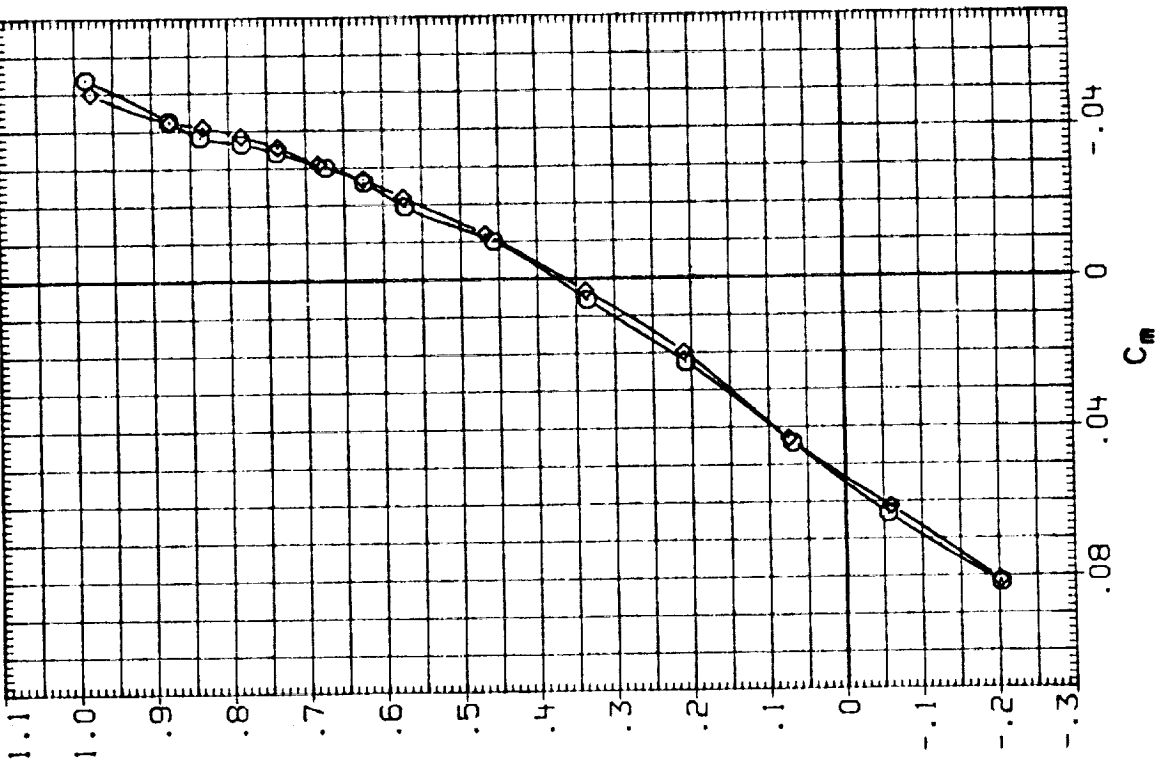
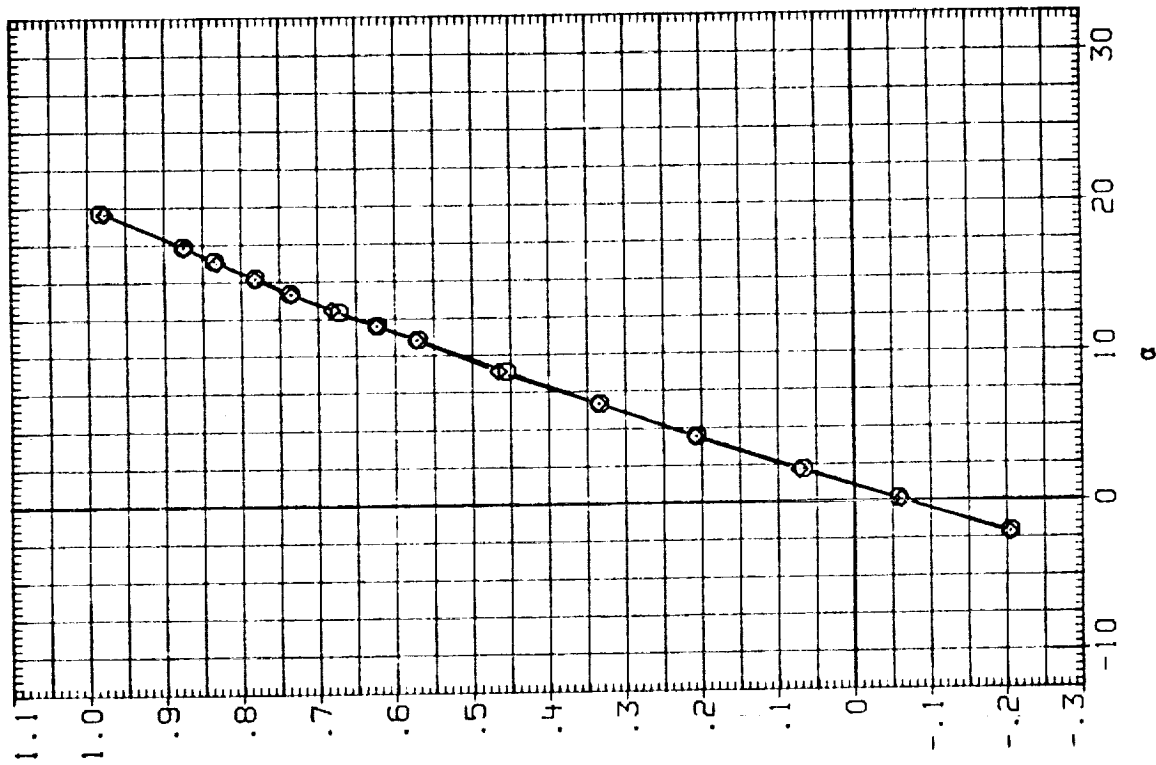


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK047) DATA NOT AVAILABLE
 (RUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK042) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)



BETA -2.000
 RN/L 4.500
 ELEVON .000
 AIRLON .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

SCALE .0150

FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .98

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
| (RUK047) | DATA NOT AVAILABLE | -2.000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK028) | LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK042) | LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 2.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

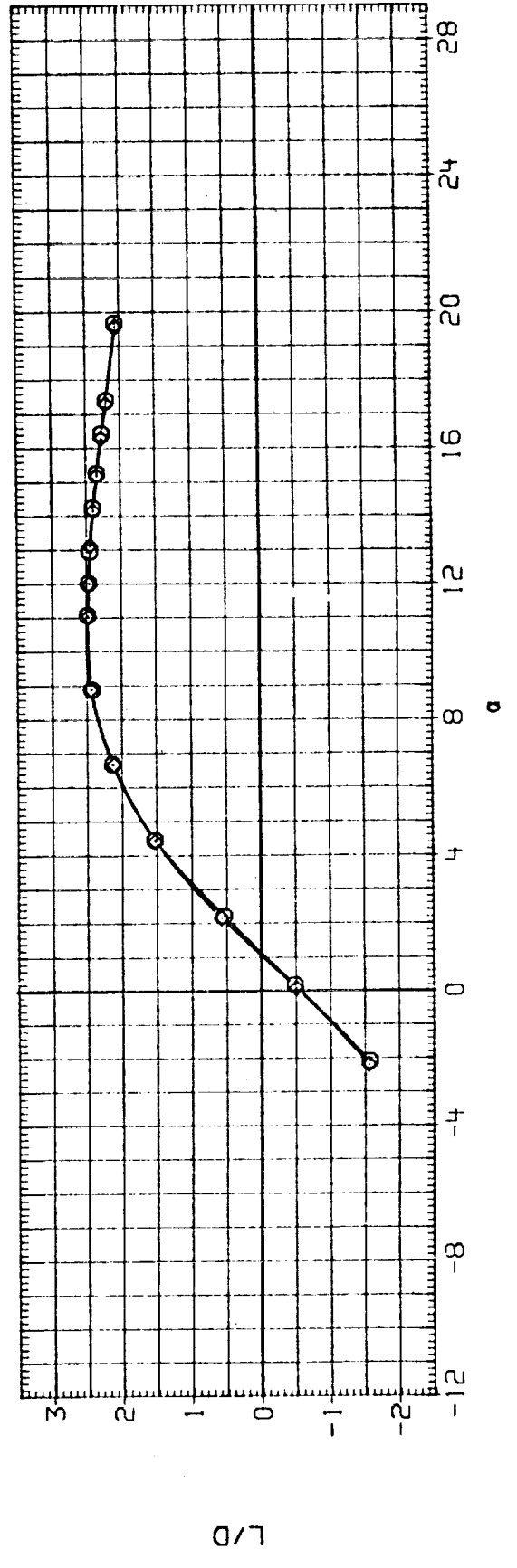
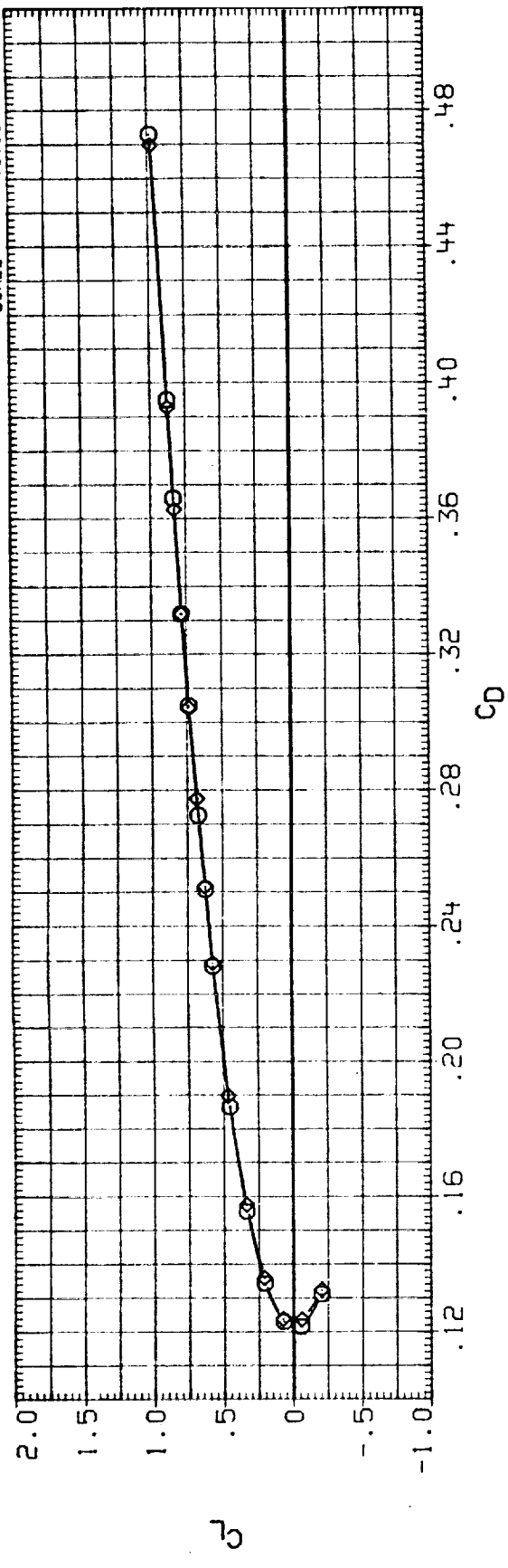


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK047) □ DATA NOT AVAILABLE
 (RUK028) ○ LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK042) ◇ LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA -2.000
 RN/L 4.500
 ELEVON .000
 AIRLON .000
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

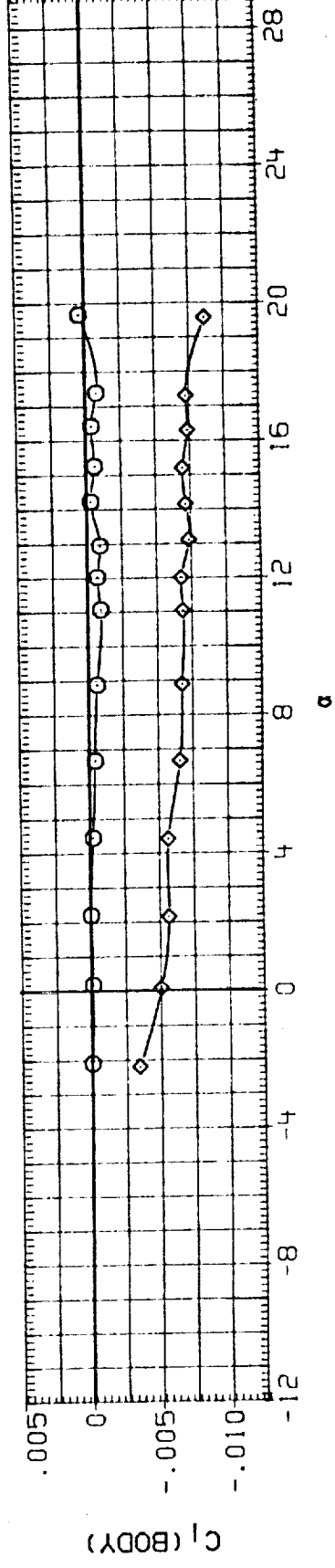
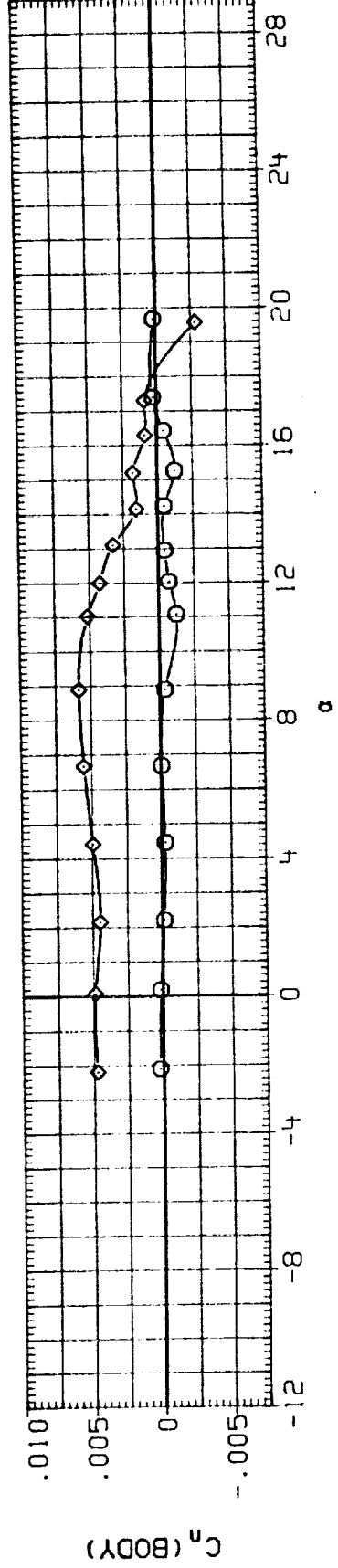
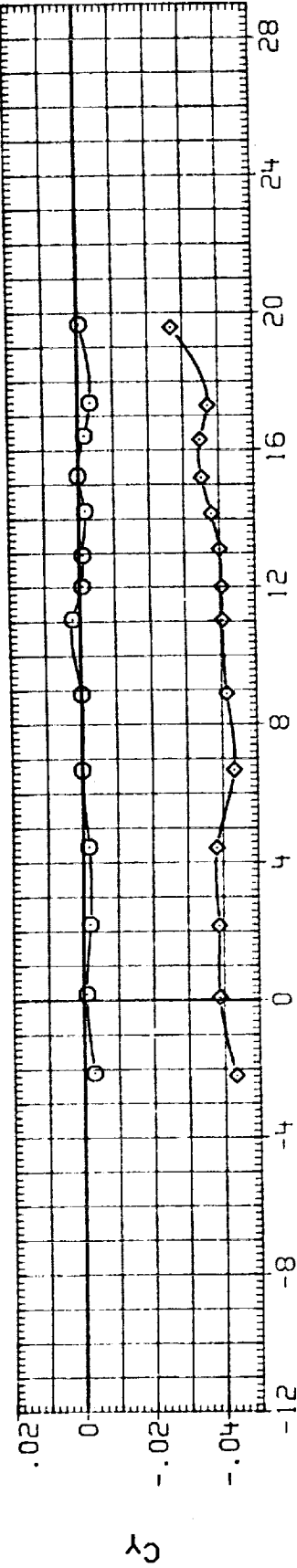


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK047) □ DATA NOT AVAILABLE
 (CUK028) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA -2.000
 RN/L 4.500
 ELEVON .000
 AIRLON .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BRFP 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

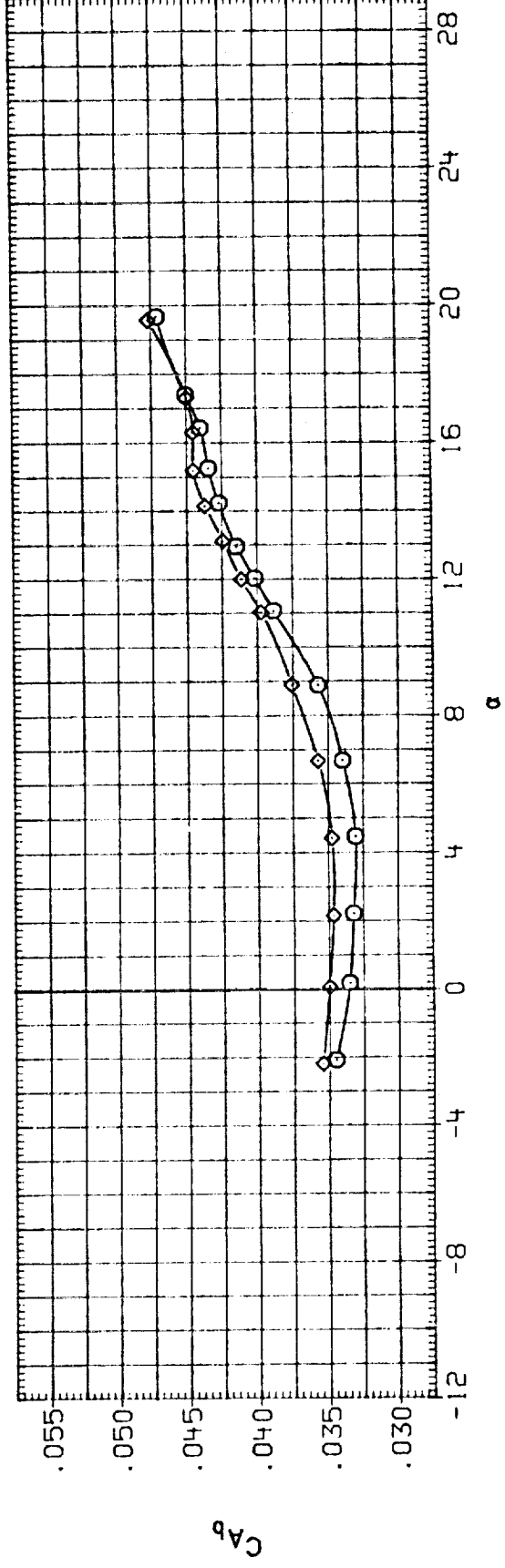
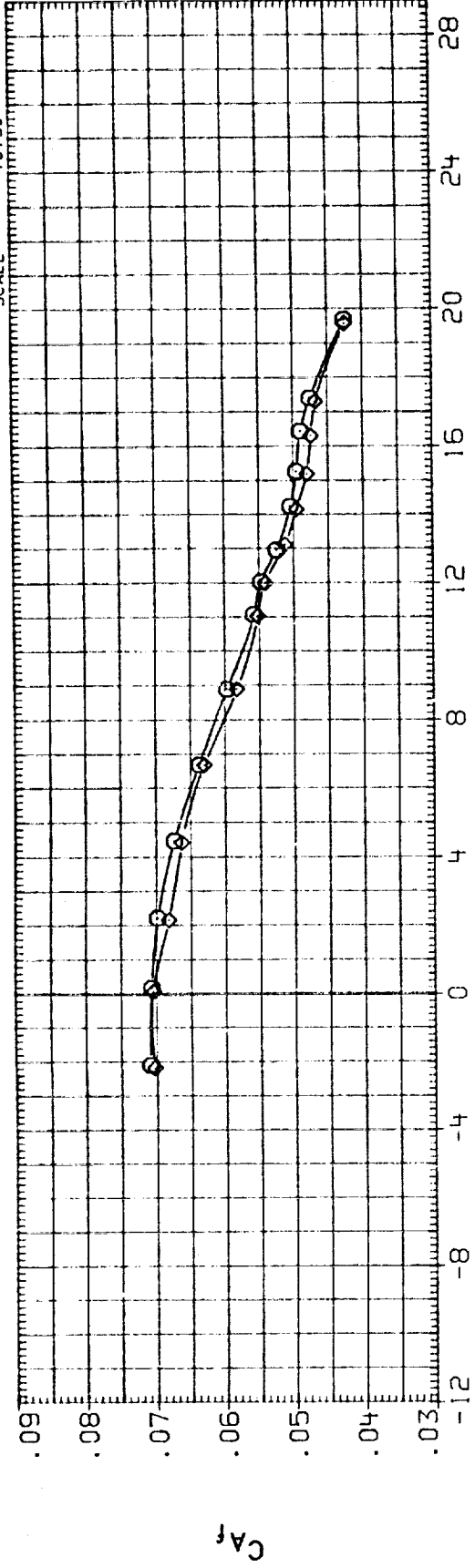


FIG. 30 EFFECT OF SIDESLIP, ELEVON=0

(A)MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK047) □ DATA NOT AVAILABLE
 (CUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIRLON

-2.000 4.500 .000 .000
 .000 4.500 .000 .000
 2.000 4.500 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

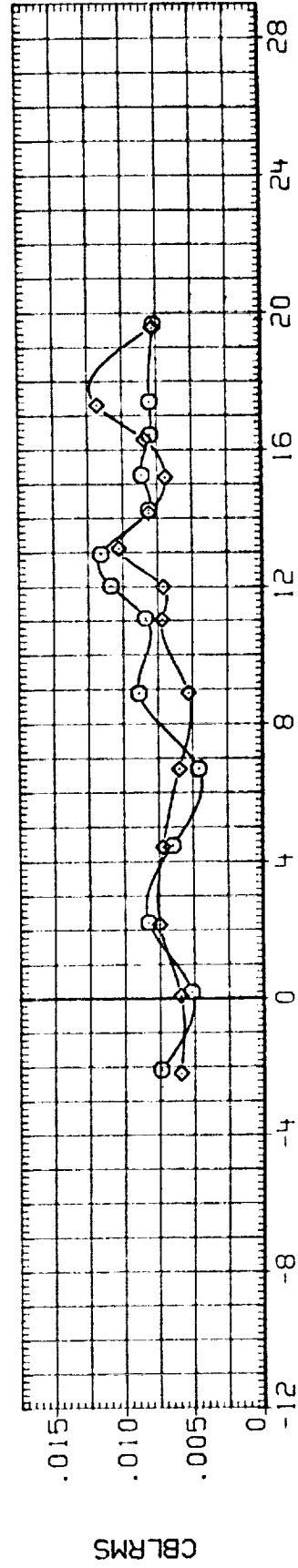
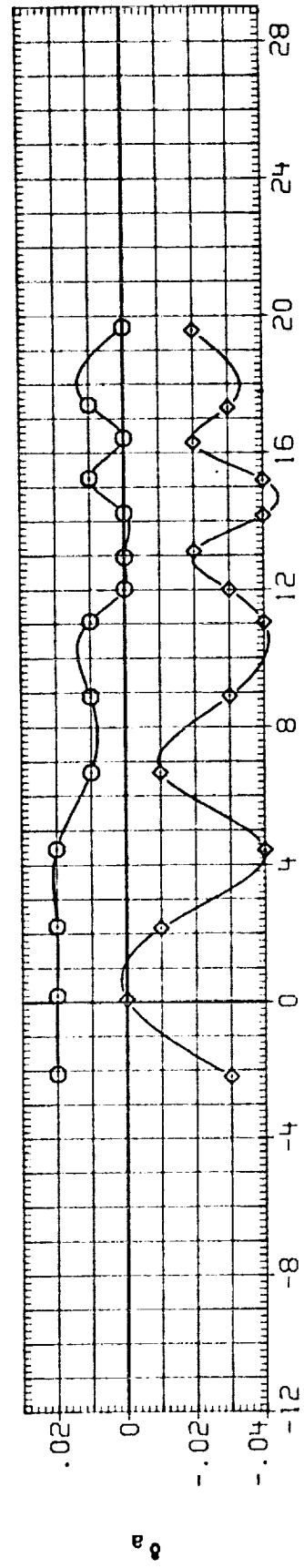
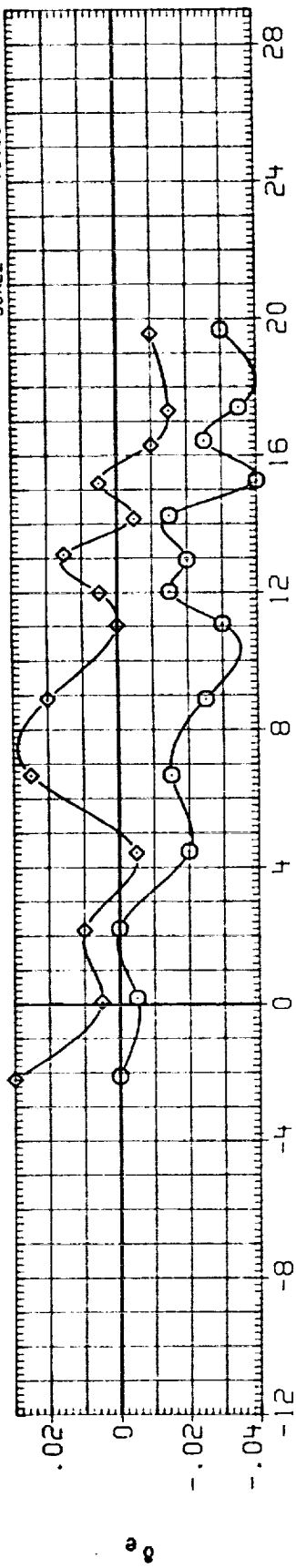


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK047) □ DATA NOT AVAILABLE
 (RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIRLON
 -2.000 4.500 .000 .000
 .000 4.500 .000 .000
 2.000 4.500 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

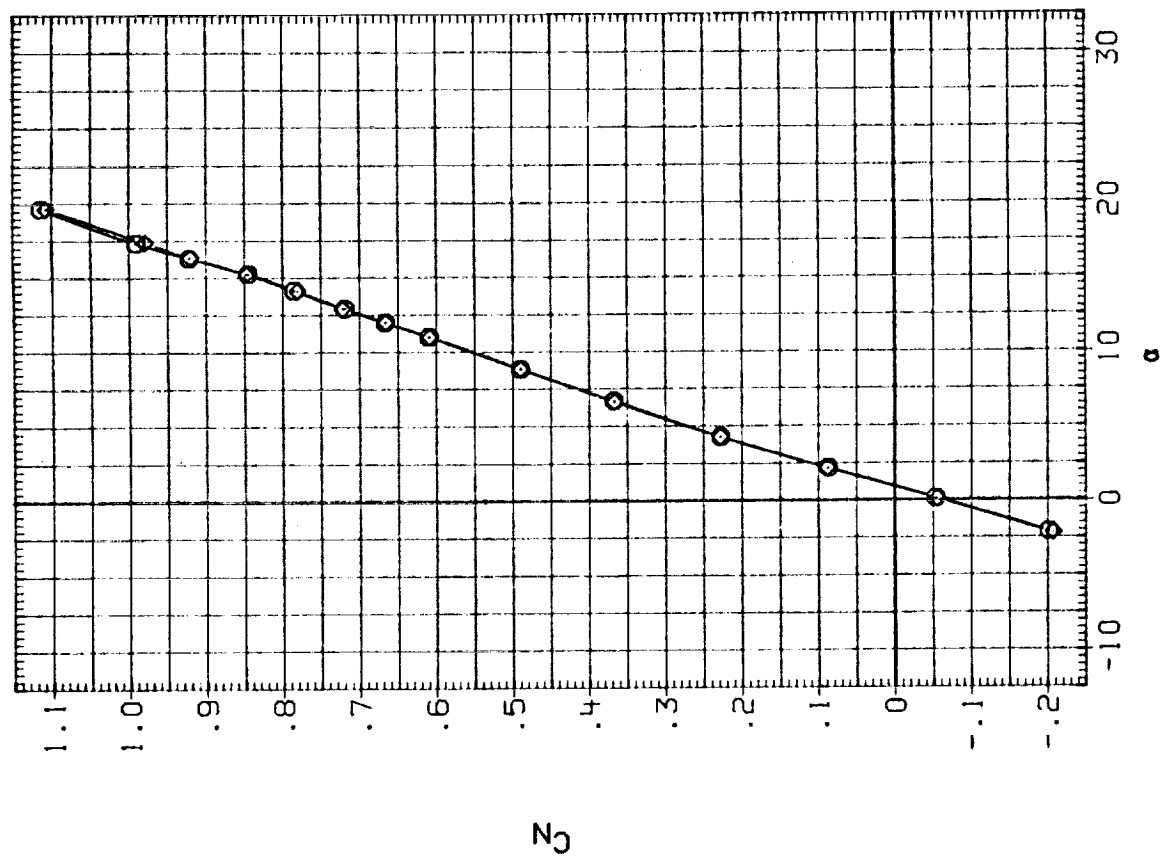
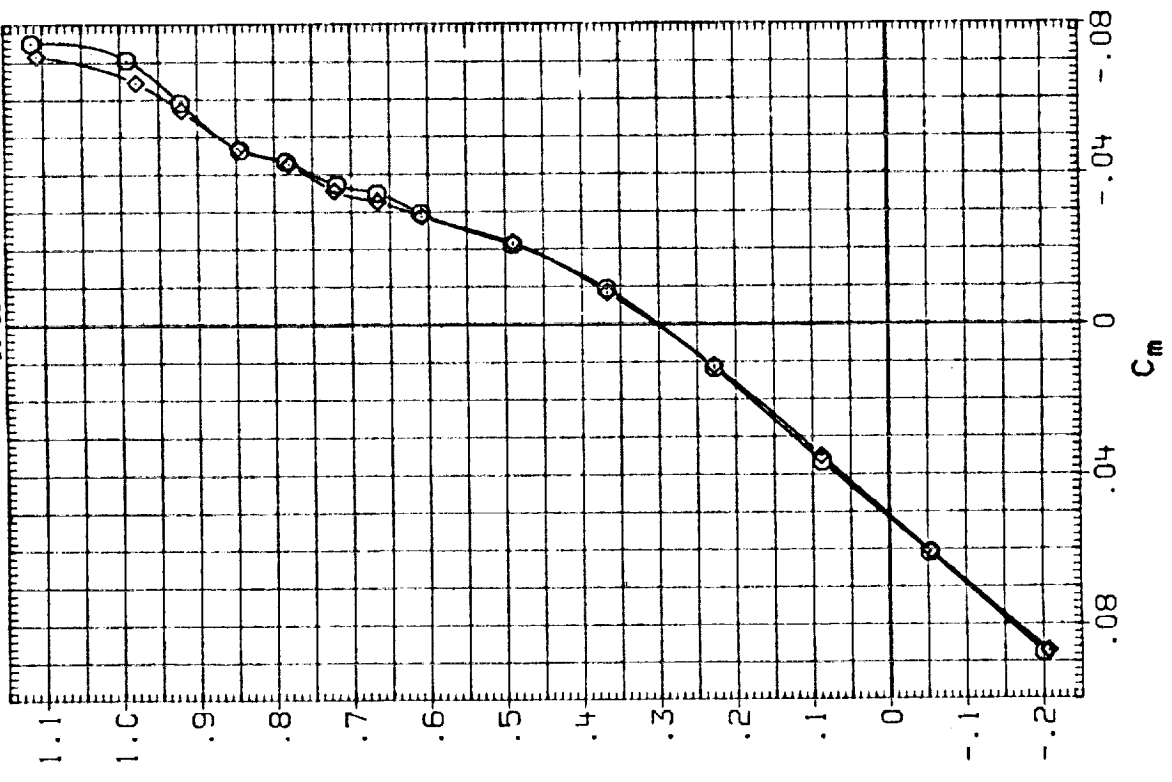


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK0471) DATA NOT AVAILABLE

(RUK0281) LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)

(RUK0421) LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)

BETA -2.000

RN/L 4.500

ELEVON .000

AILRON .000

SREF 2690.0000 SO.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

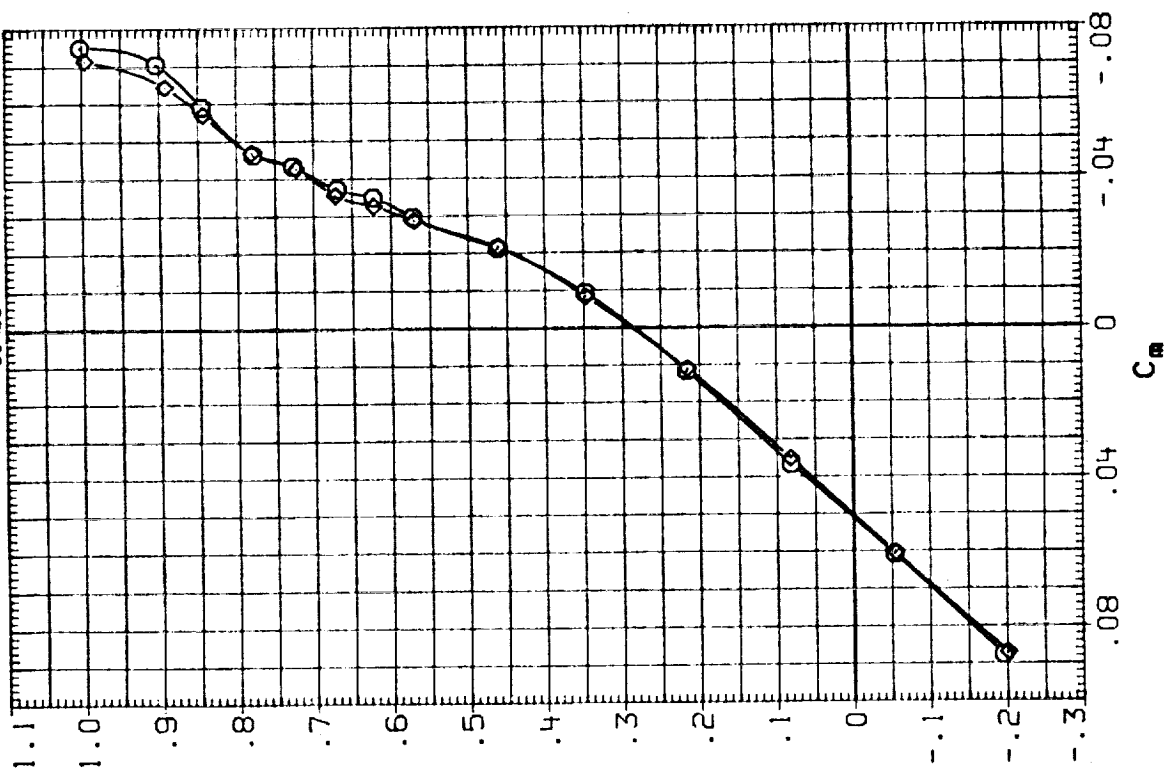
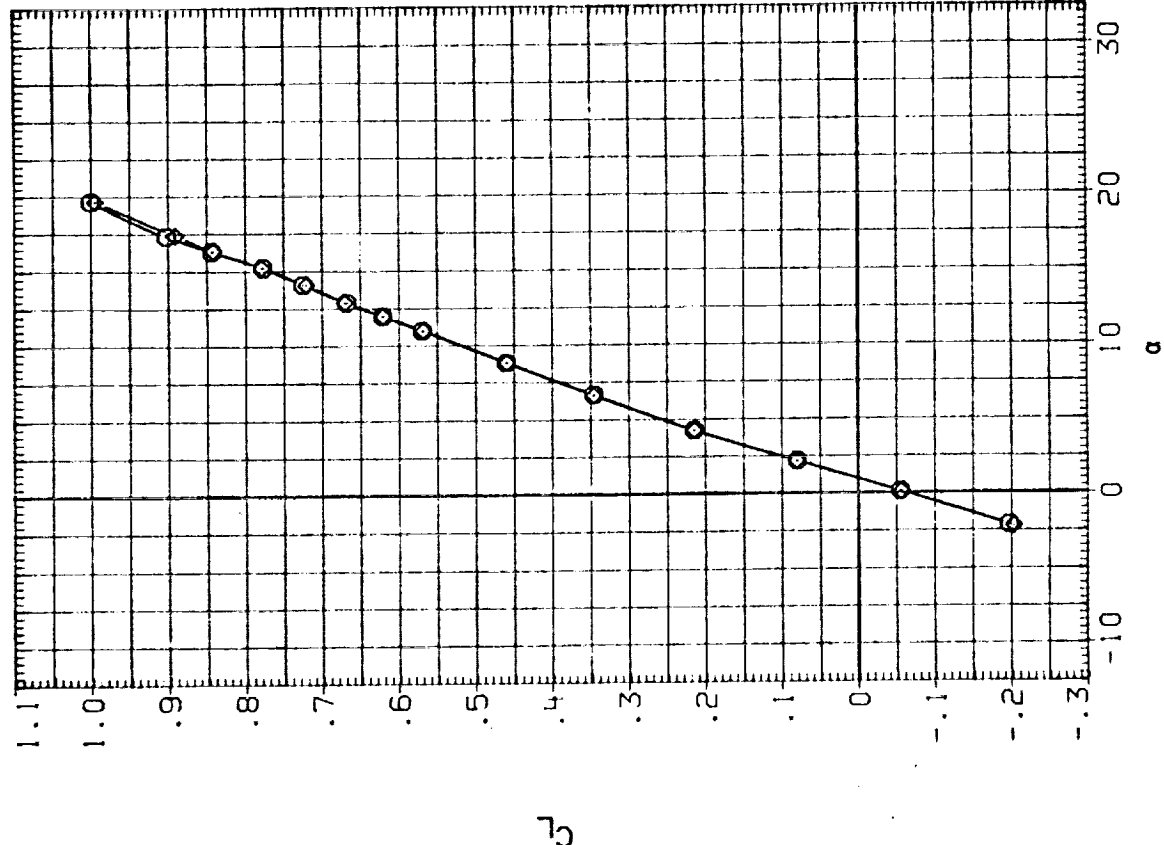


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = 1.05

| | | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION | |
| (RUK047) | DATA NOT AVAILABLE | -2.000 | 4.500 | .000 | .000 | SREF | 2690.0000 SQ.FT. |
| (RUK028) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF | 474.8000 INCHES |
| (RUK042) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 2.000 | 4.500 | .000 | .000 | BREF | 936.6800 INCHES |
| | | | | | | XMRP | 1076.7000 IN. X0 |
| | | | | | | YMRP | .0000 IN. Y0 |
| | | | | | | ZMRP | 375.0000 IN. Z0 |
| | | | | | | SCALE | .0150 |

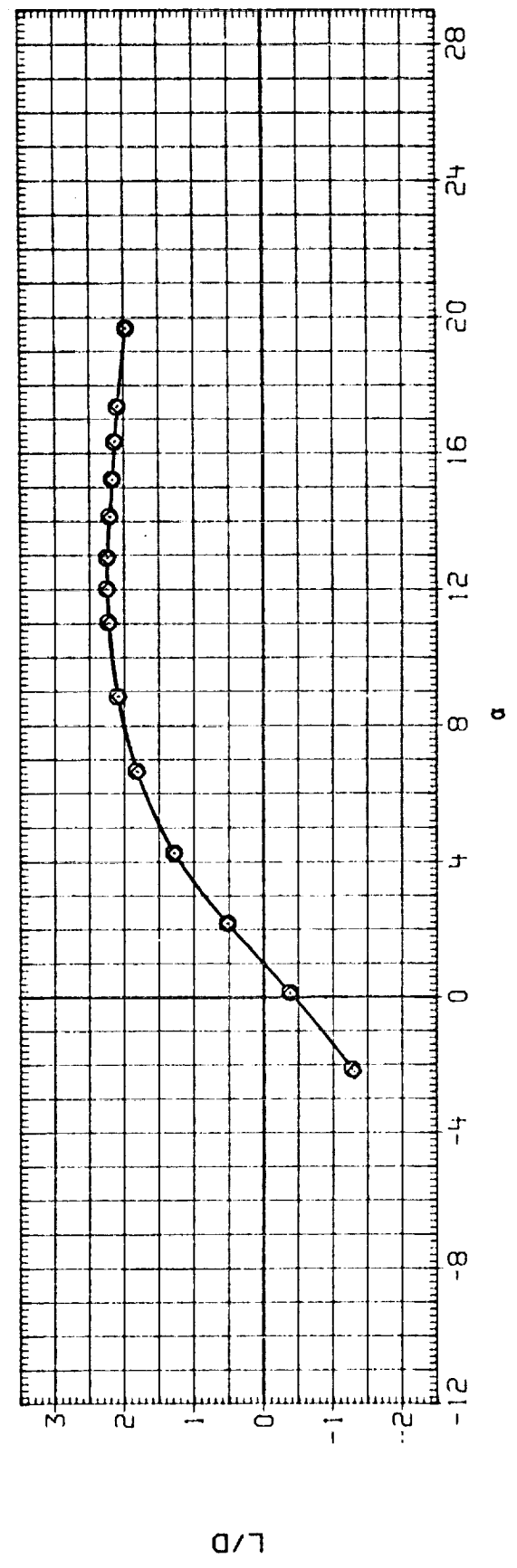
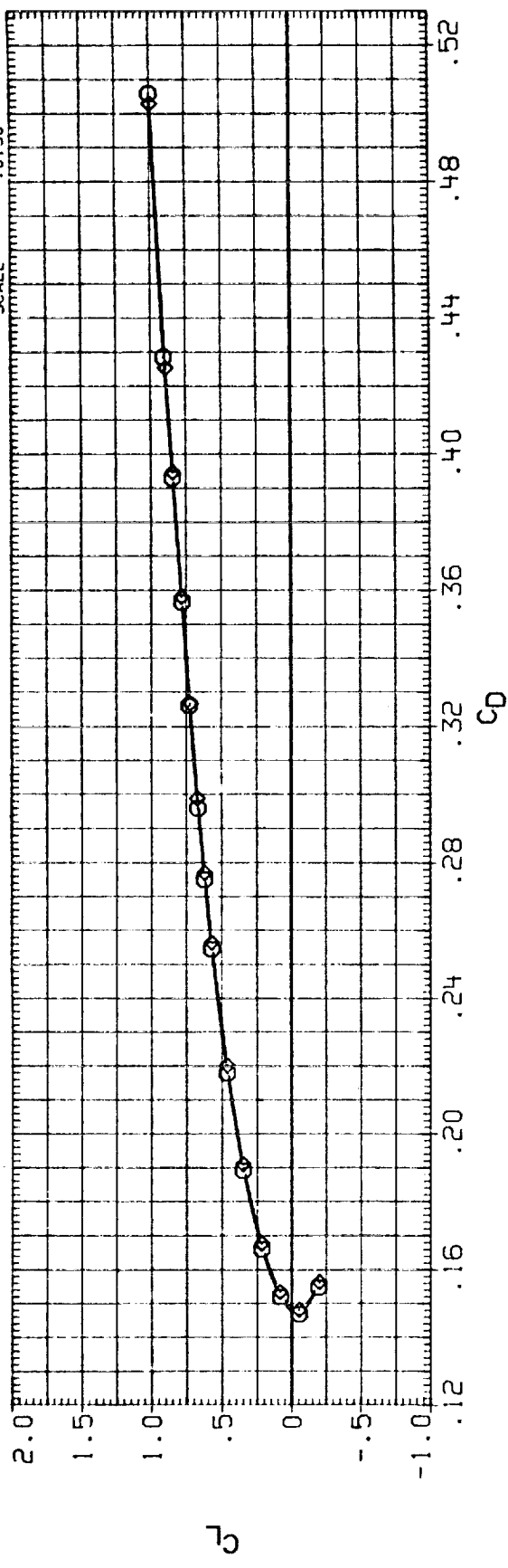


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

| | | | | |
|----------|--|-------|-----------|---------|
| (RUK047) | DATA NOT AVAILABLE | SREF | 2690.0000 | SO. FT. |
| (RUK028) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | LREF | 474.8000 | INCHES |
| (RUK042) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | BREF | 936.6800 | INCHES |
| | | XMRP | 1076.7000 | IN. XO |
| | | YMRP | .0000 | IN. YO |
| | | ZMRP | 375.0000 | IN. ZO |
| | | SCALE | .0150 | |

BETA -2.000
 RN/L 4.500
 ELEVON .000
 AIRLON .000

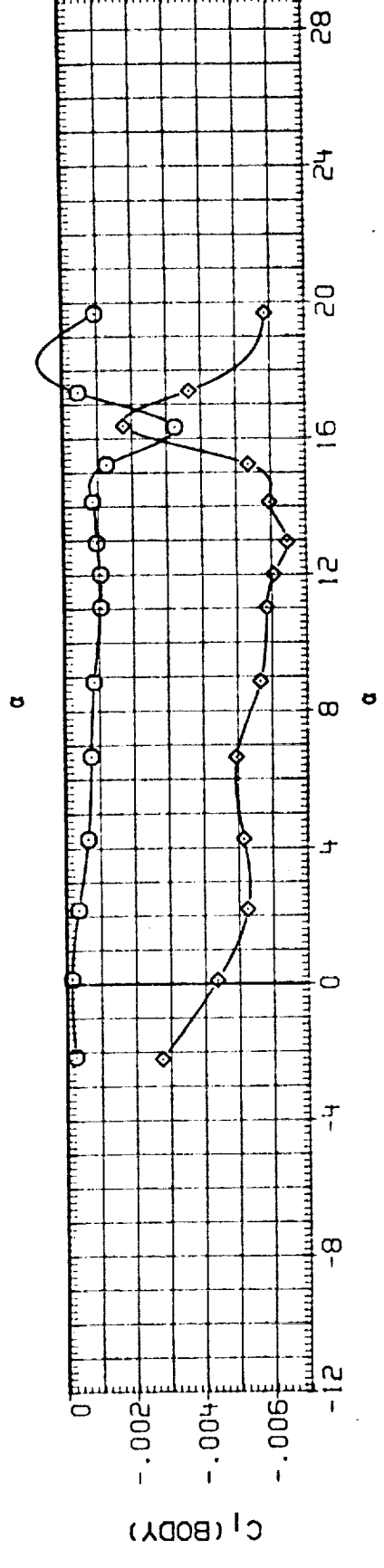
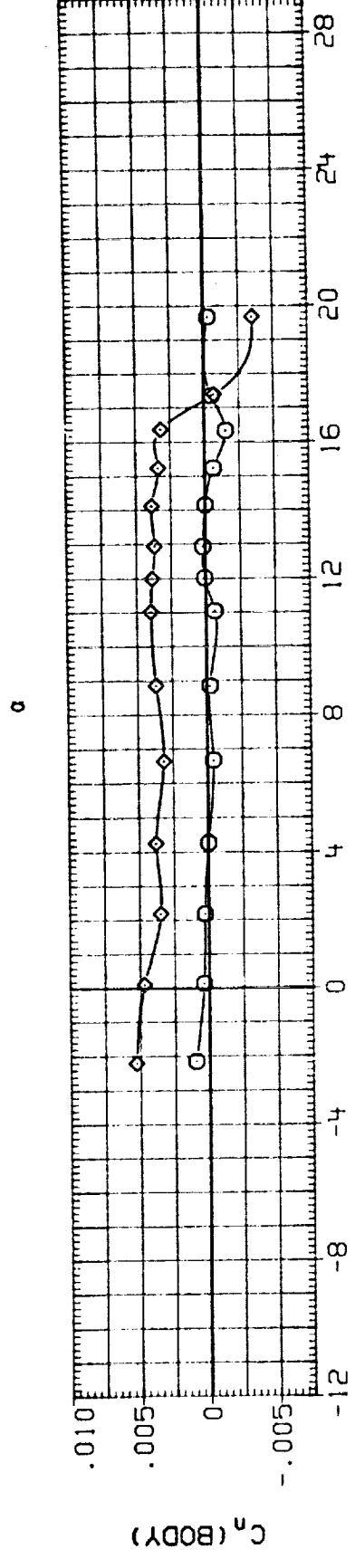
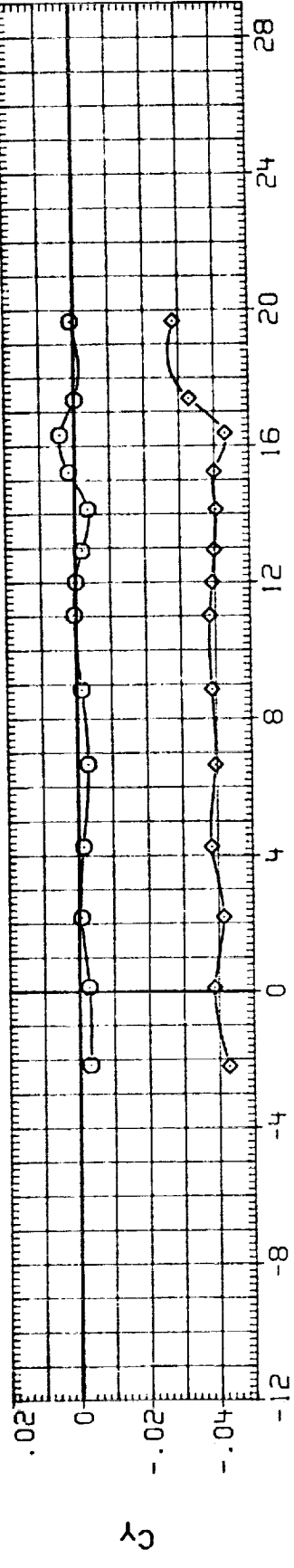


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = 1.05

REFERENCE INFORMATION
 SQ.FT. 2690.0000
 INCHES 474.8000
 INCHES 936.6800
 IN. XO 1076.7000
 IN. YO 375.0000
 IN. ZO 375.0000
 SCALE 0.150

ELEVON AIRLON
 .000 .000
 .000 .000
 .000 .000

RN/L BETA
 4.500 -2.000
 4.500 .000
 4.500 2.000

CONFIGURATION DESCRIPTION
 DATA NOT AVAILABLE
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

DATA SET SYMBOL
 (CUK047) □
 (CUK028) ◇
 (CUK042) ○

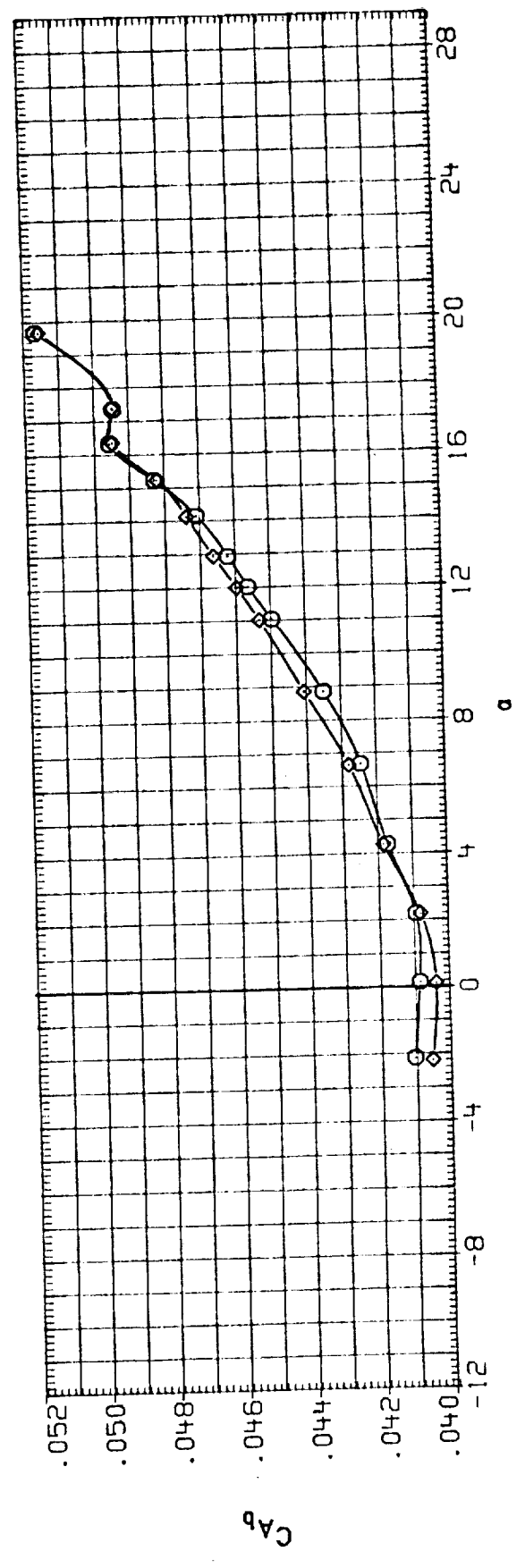
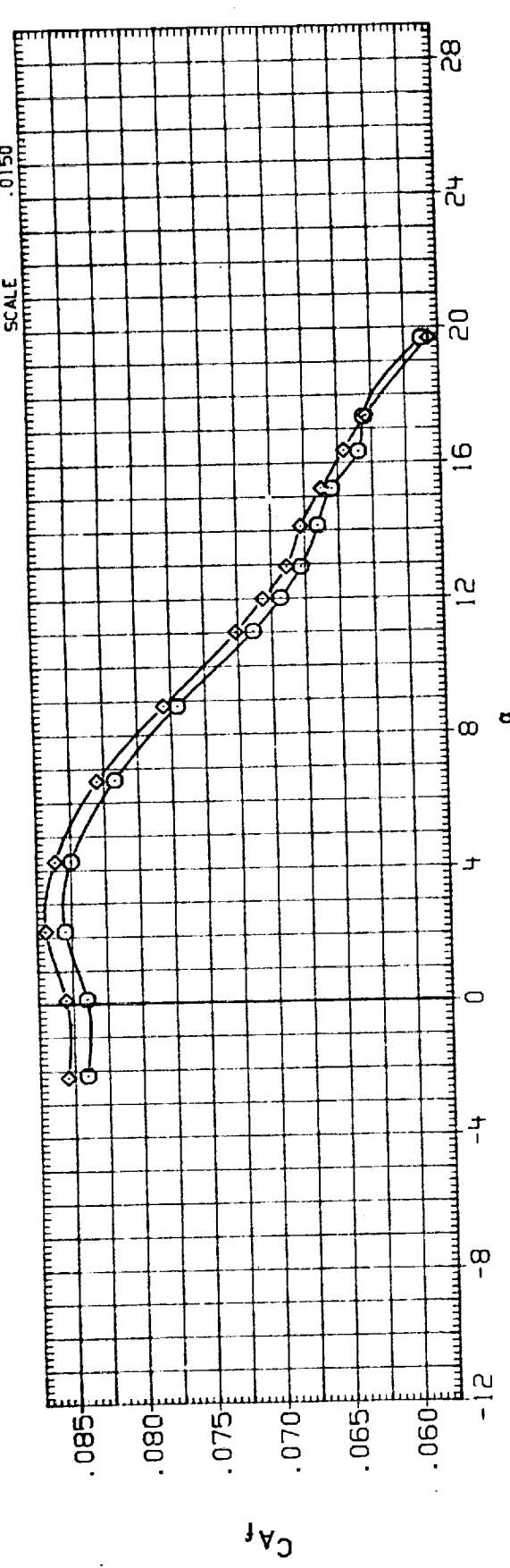


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK047) □ DATA NOT AVAILABLE
 (CUK028) ○ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)
 (CUK042) ◇ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

BETA -2.000
 .000
 2.000

RN/L 4.500
 4.500
 4.500

ELEVON .000
 .000
 .000

AILRON .000
 .000
 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

SCALE .0150

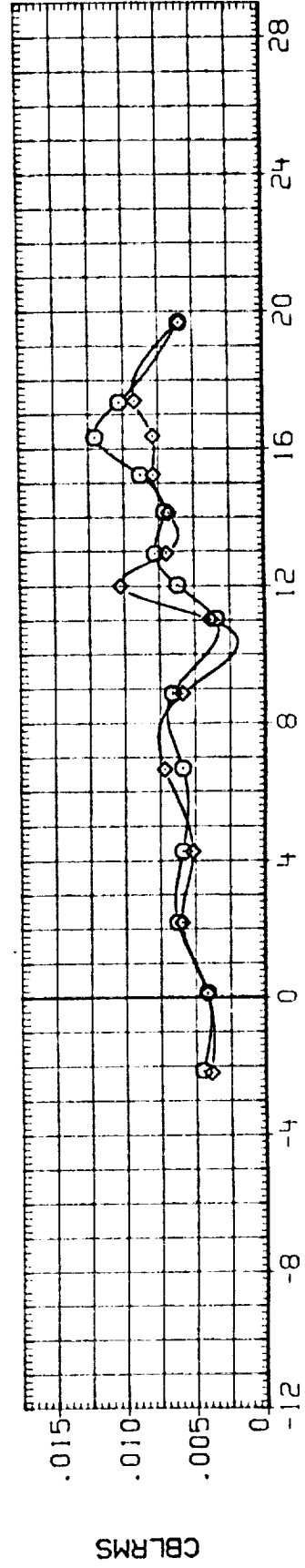
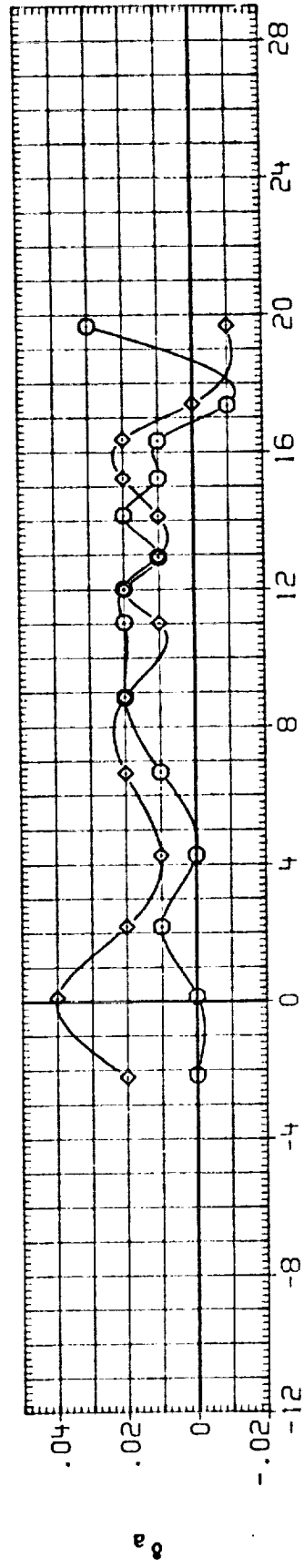
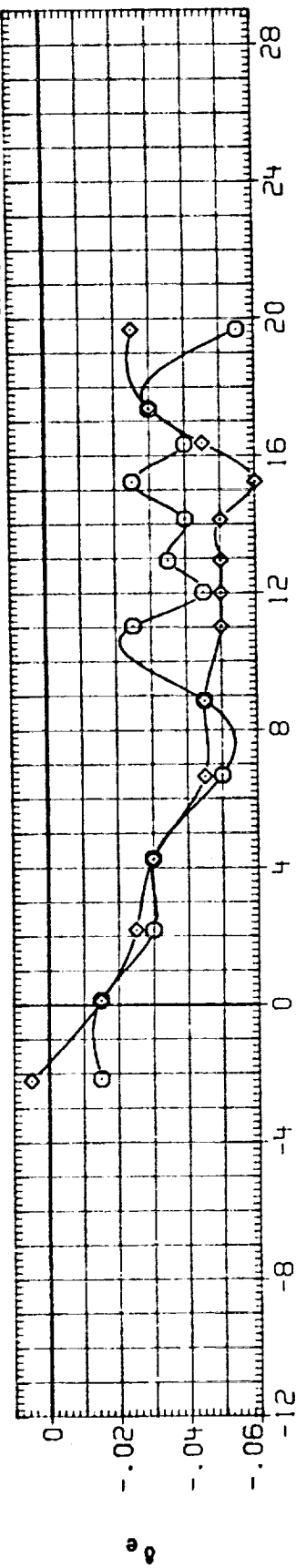


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK030) ○ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 (RUK043) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

BETA .000
 2.000
 RN/L 4.000
 4.000
 ELEVON .000
 .000
 AILRON .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

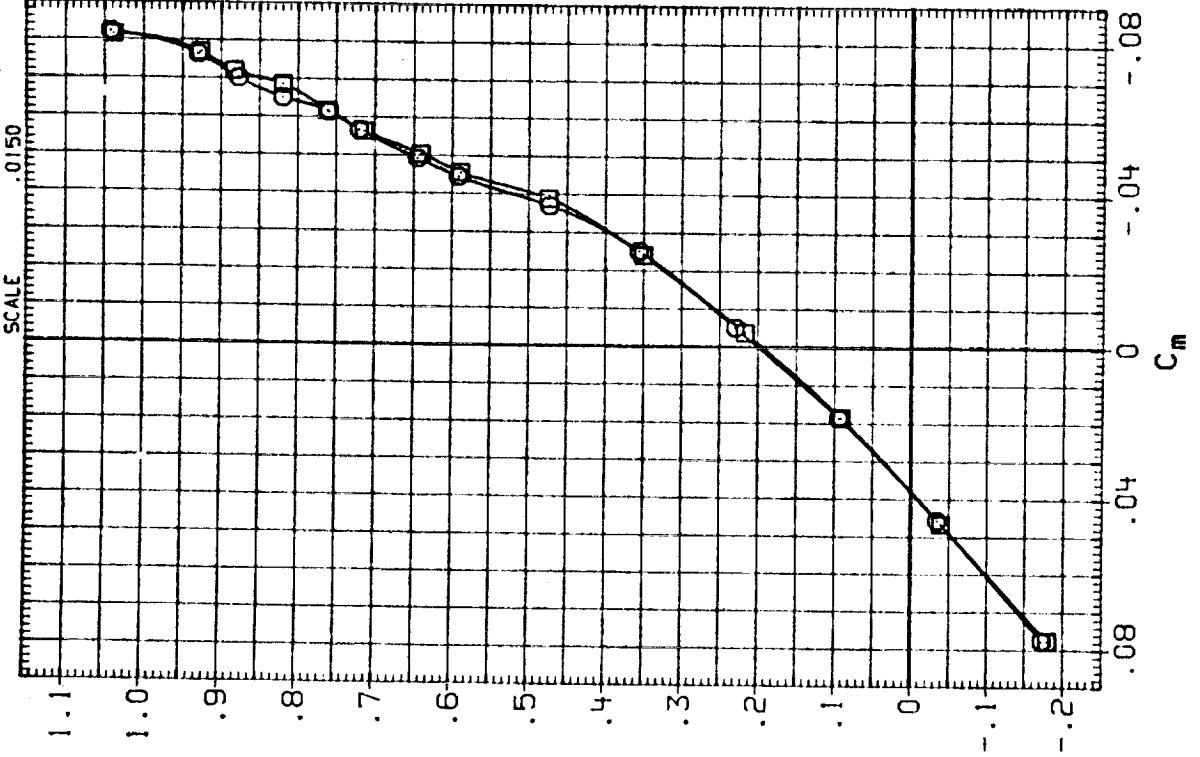
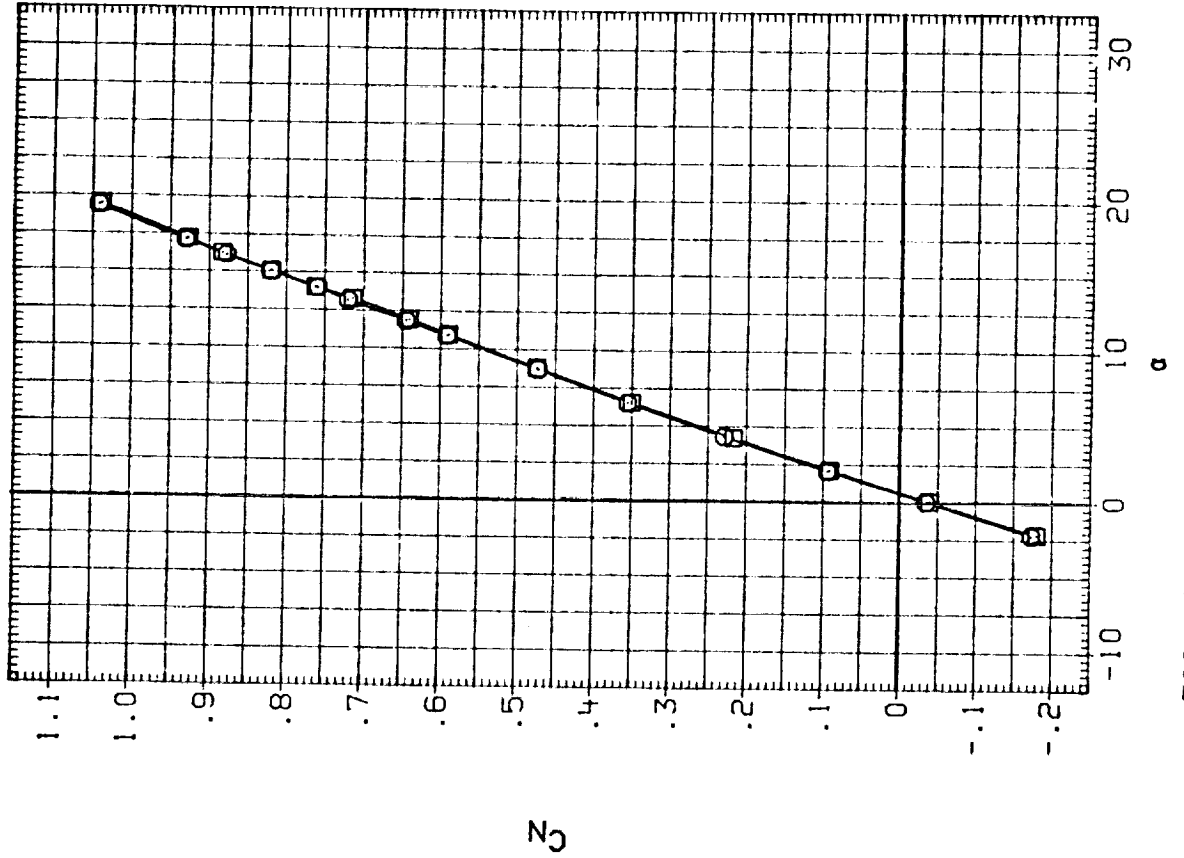


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = 1.20

DATA SET SYMBOL
(RUK030)
(RUK043)

CONFIGURATION DESCRIPTION

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

BETA
.000
2.000

RN/L
4.000
4.000

ELEVON
.000
.000

AILRON
.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8000 INCHES
BREF 936.6800 INCHES
XMRP 1076.7000 IN. X0
YMRP .0000 IN. Y0
ZMRP 375.0000 IN. Z0

SCALE
.0150

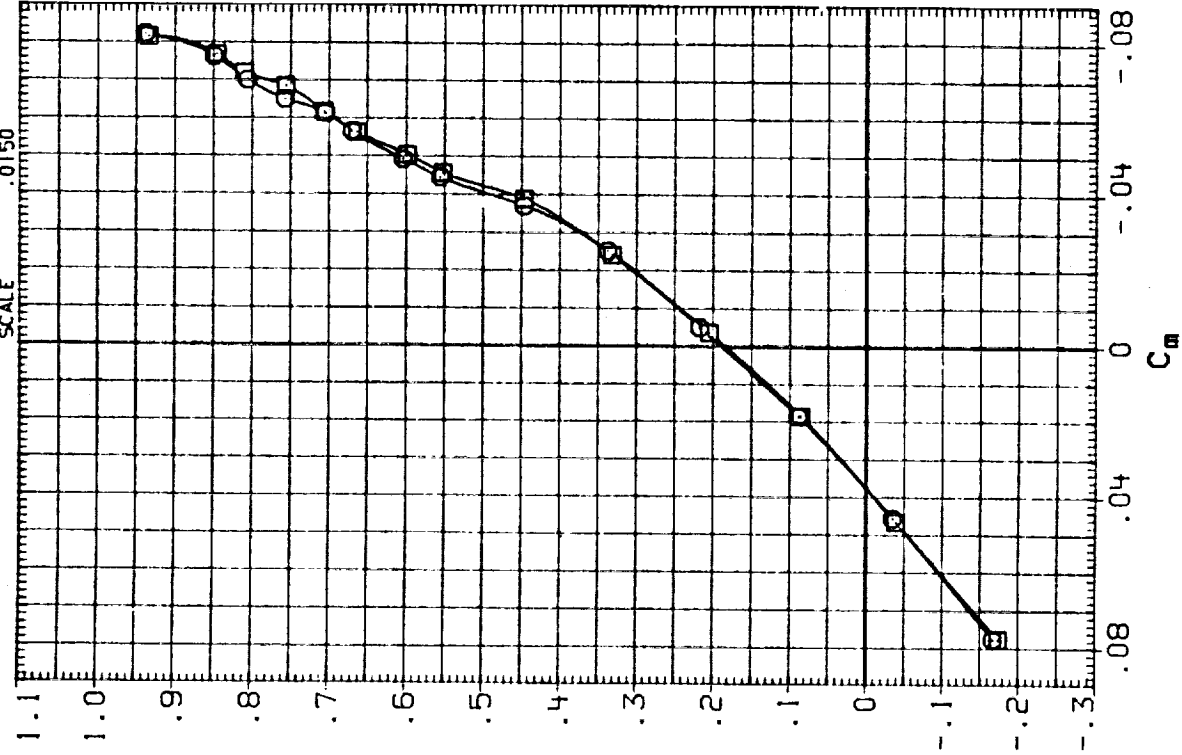
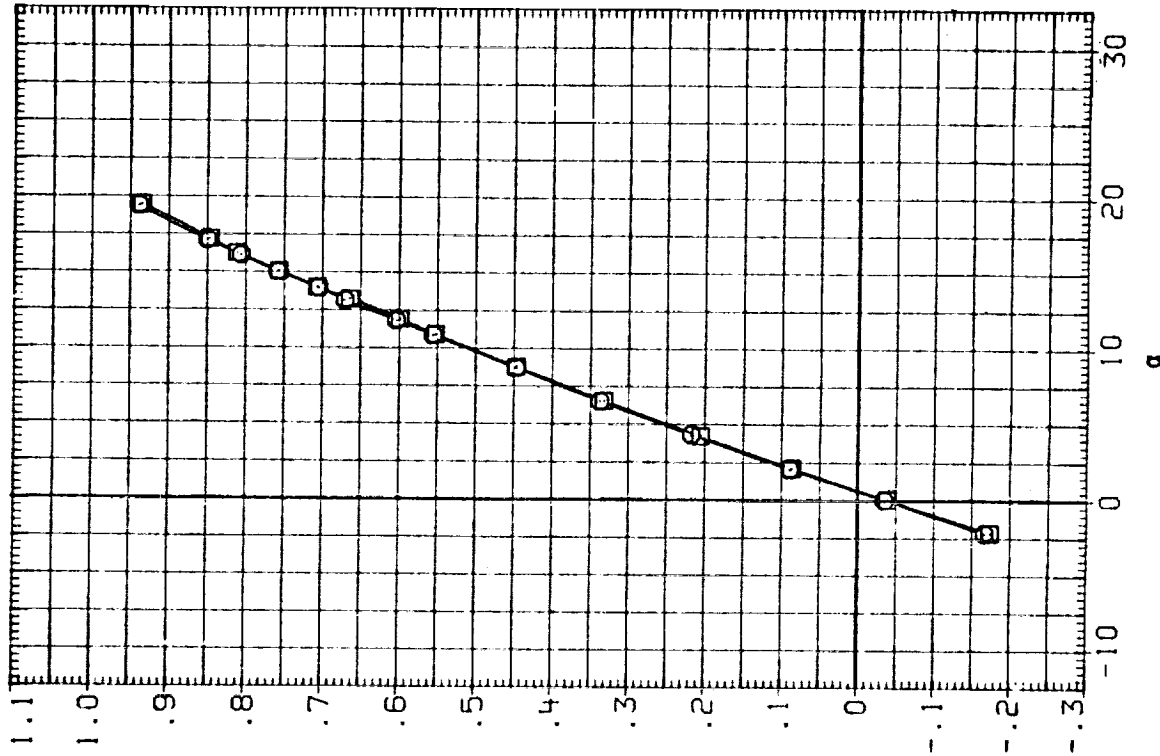


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK030) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK043) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000
 2.000
 RN/L 4.000
 4.000
 ELEVON .000
 .000
 AILRON .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.6000 INCHES
 BREF 936.6800 INCHES
 XMFP 1076.7000 IN. XO
 YMFP .0000 IN. YO
 ZMFP 375.0000 IN. ZO
 SCALE .0150

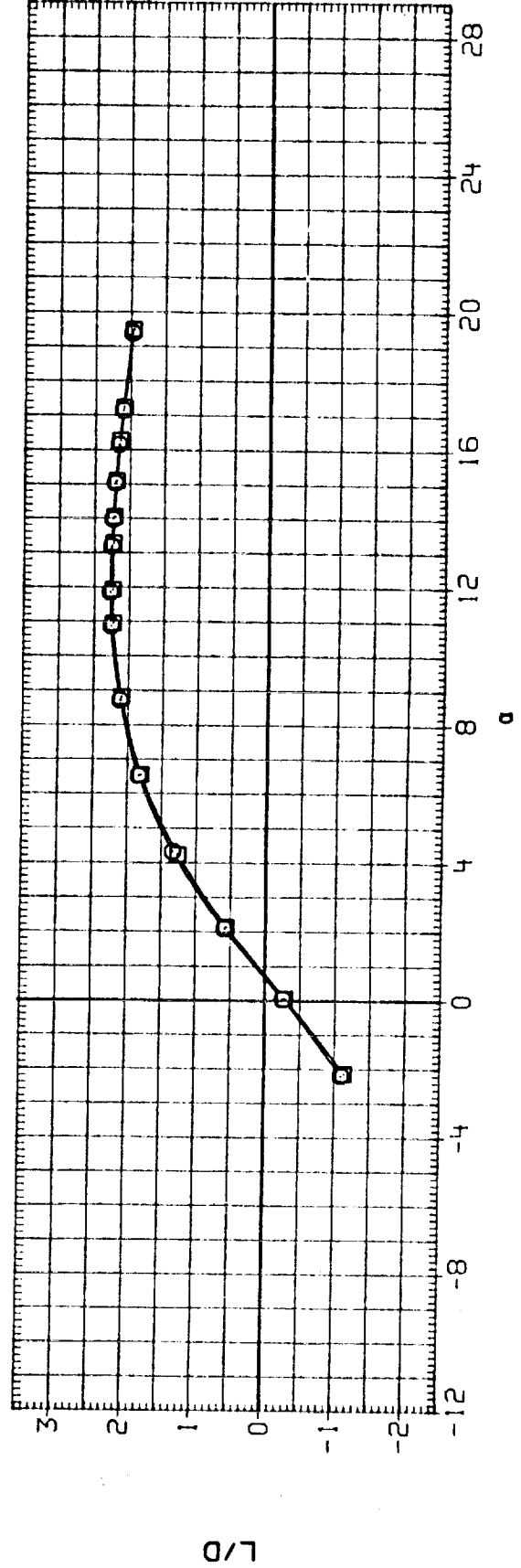
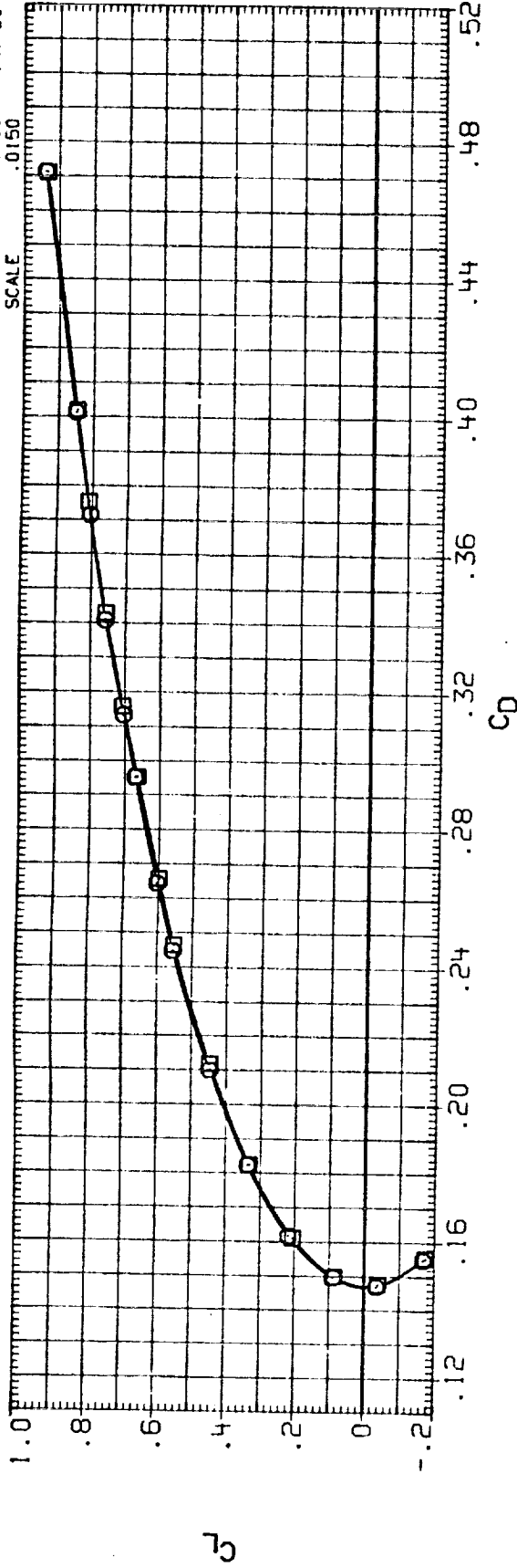


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK030) ○ LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK043) □ LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIL/ROU
 .000 4.000 .000 .000
 2.000 4.000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

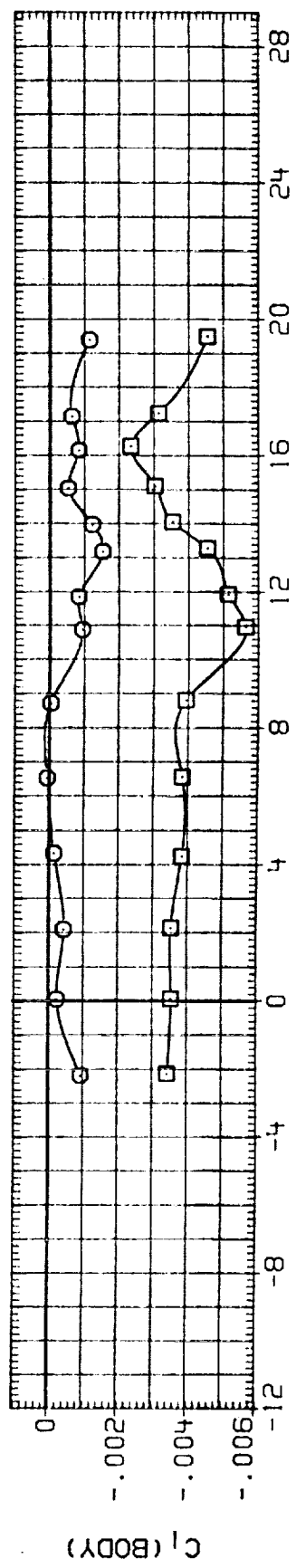
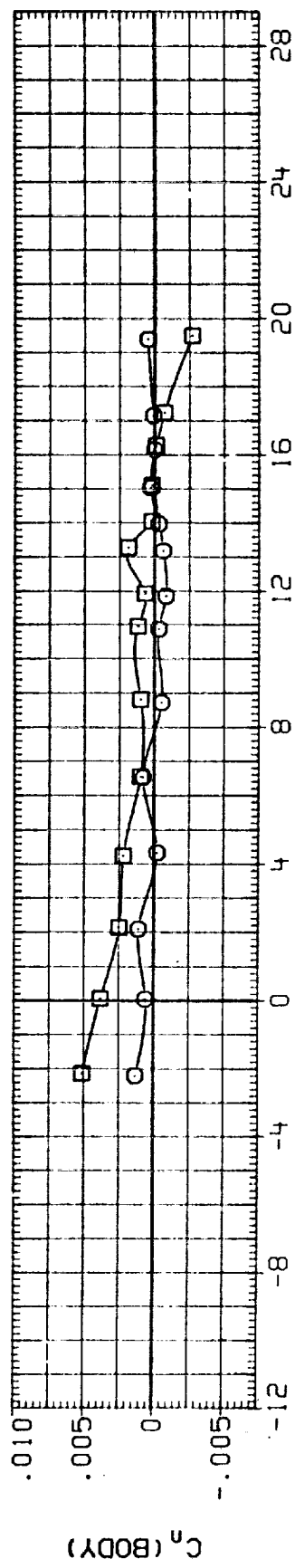
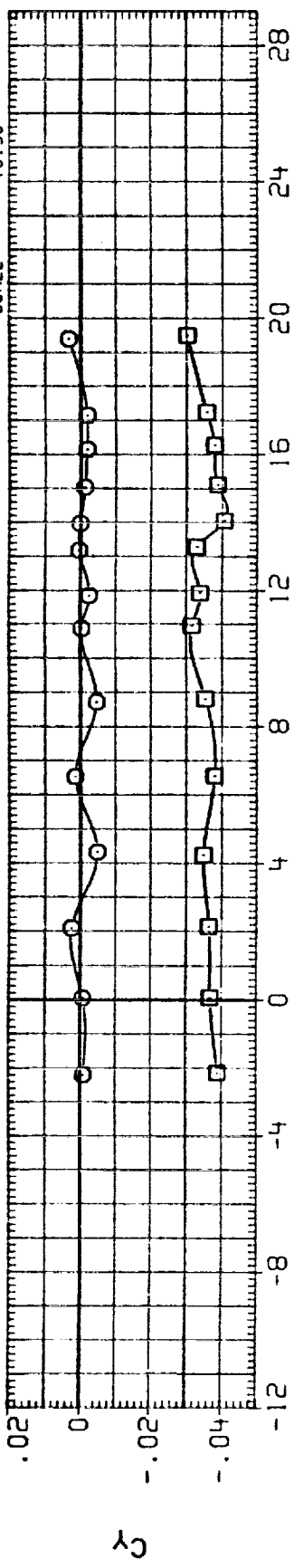


FIG. 30 EFFECT OF SIDESLIP, ELEVON=0

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CUK030) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK043) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RAVL ELEVON AIRLON
 .000 4.000 .000 .000
 2.000 4.000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

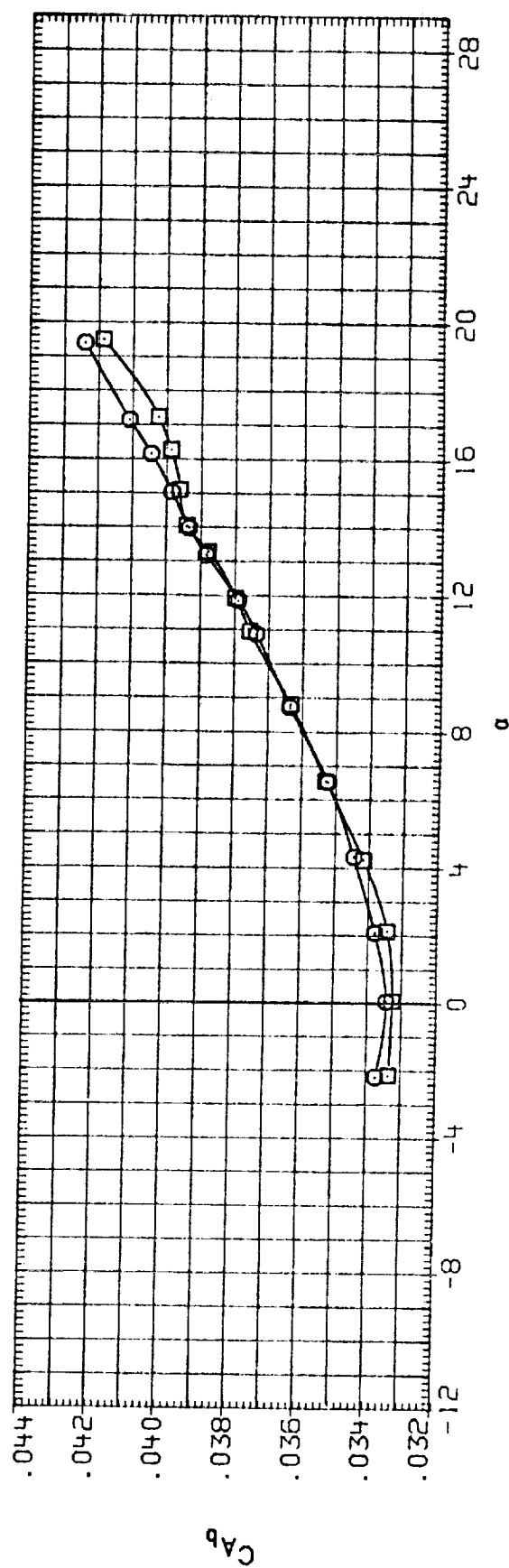
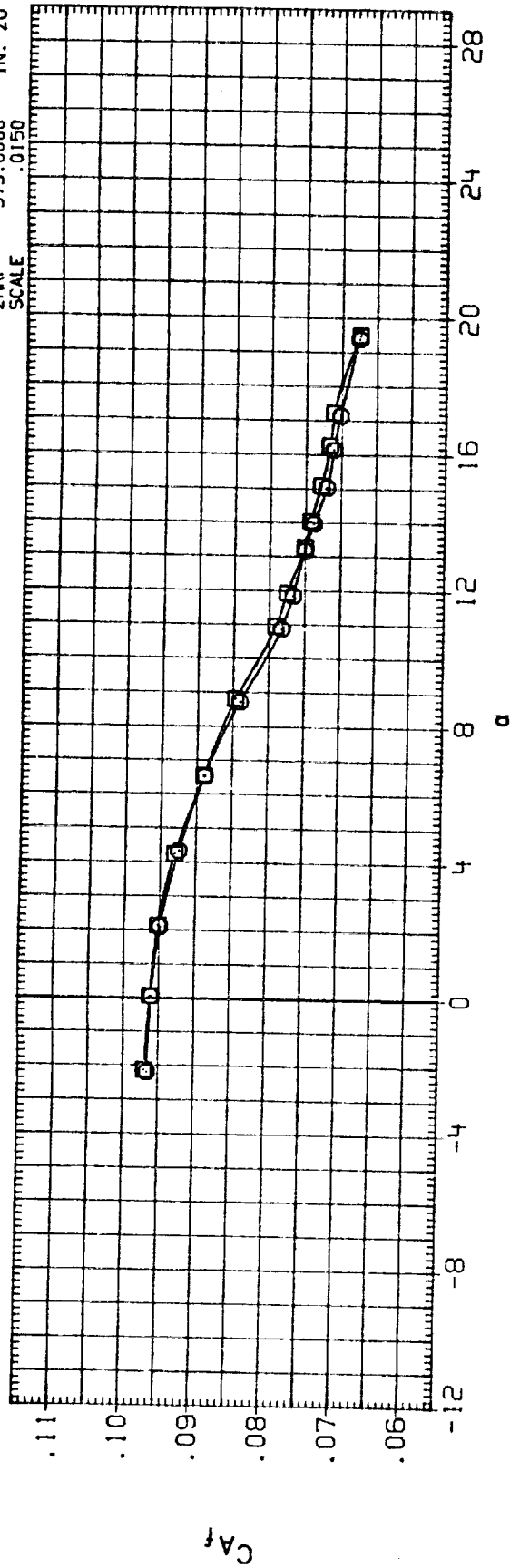


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK0301) LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 (CUK043) LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

BETA .000
 2.000

RN/L 4.000
 4.000

ELEVON .000
 .000

AILIRON .000
 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BRREF 936.6800 INCHES
 YMRP 1076.7000 IN. X0
 ZMRP .0000 IN. Y0
 375.0000 IN. Z0
 SCALE .0150

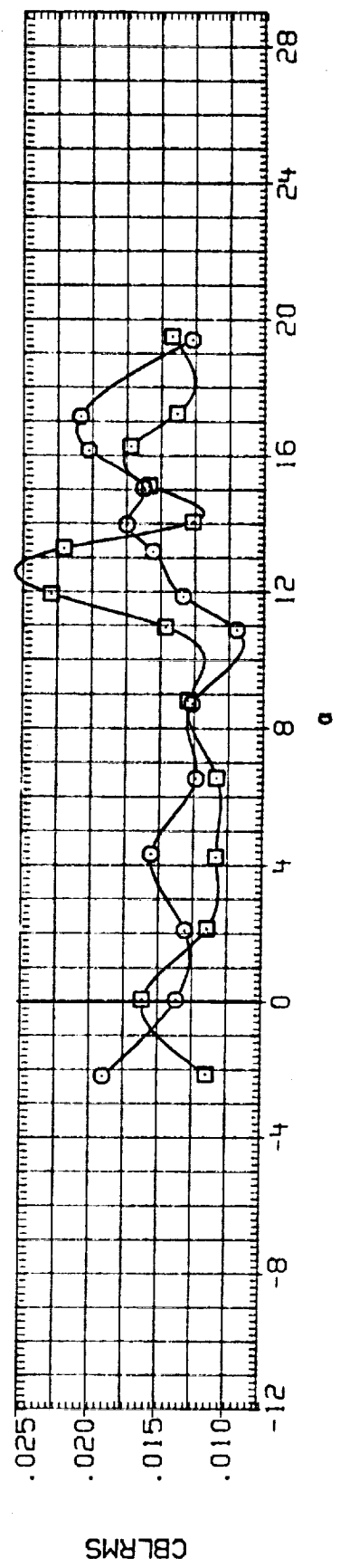
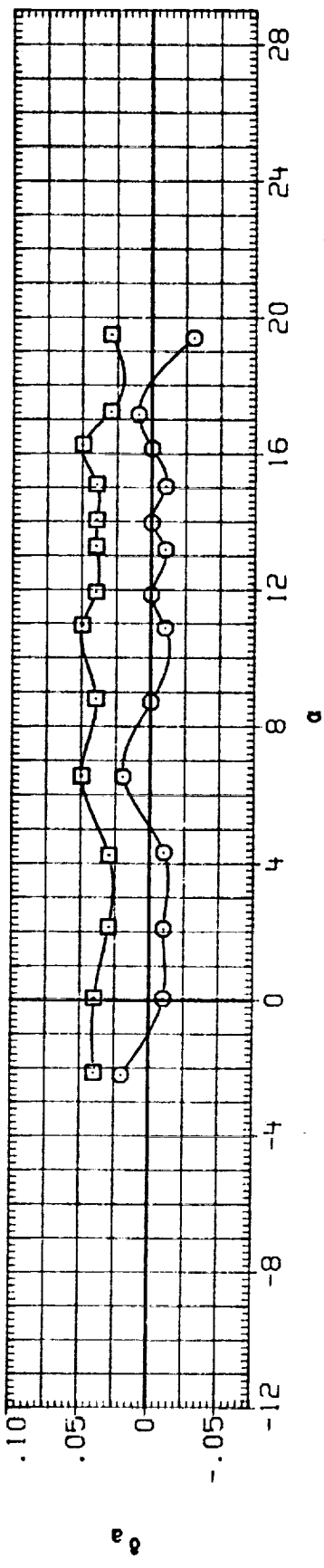
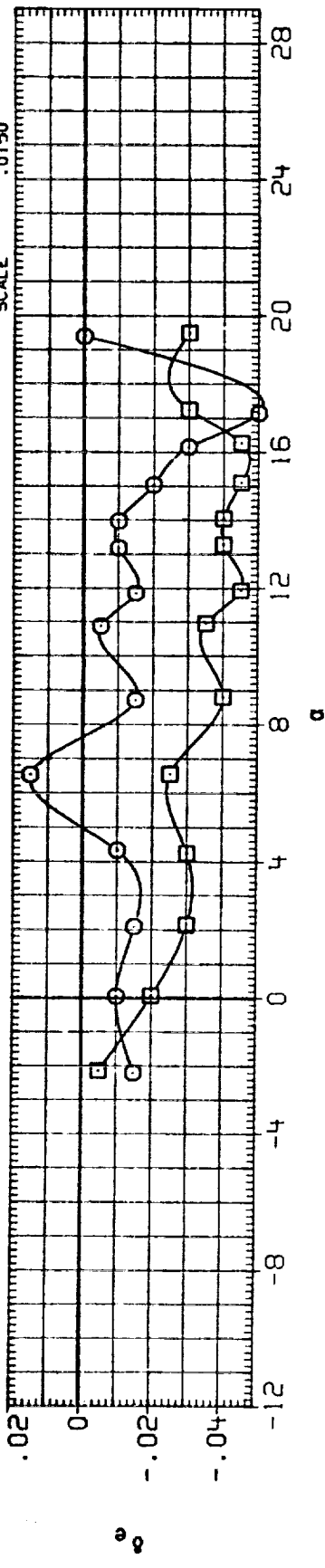


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = 1.20

DATA SET SYMBOL

(RUK048)
(RUK036)
(RUK045)

CONFIGURATION DESCRIPTION

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

BETA
-2.000
.000
2.000

RN/L
4.500
4.500
4.500

ELEVON
10.000
10.000
10.000

AILRON
.000
.000
.000

REFERENCE INFORMATION

SREF 2690.0000 50.FT.
LREF 474.8000 INCHES
BREF 936.6800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO

SCALE
.0150

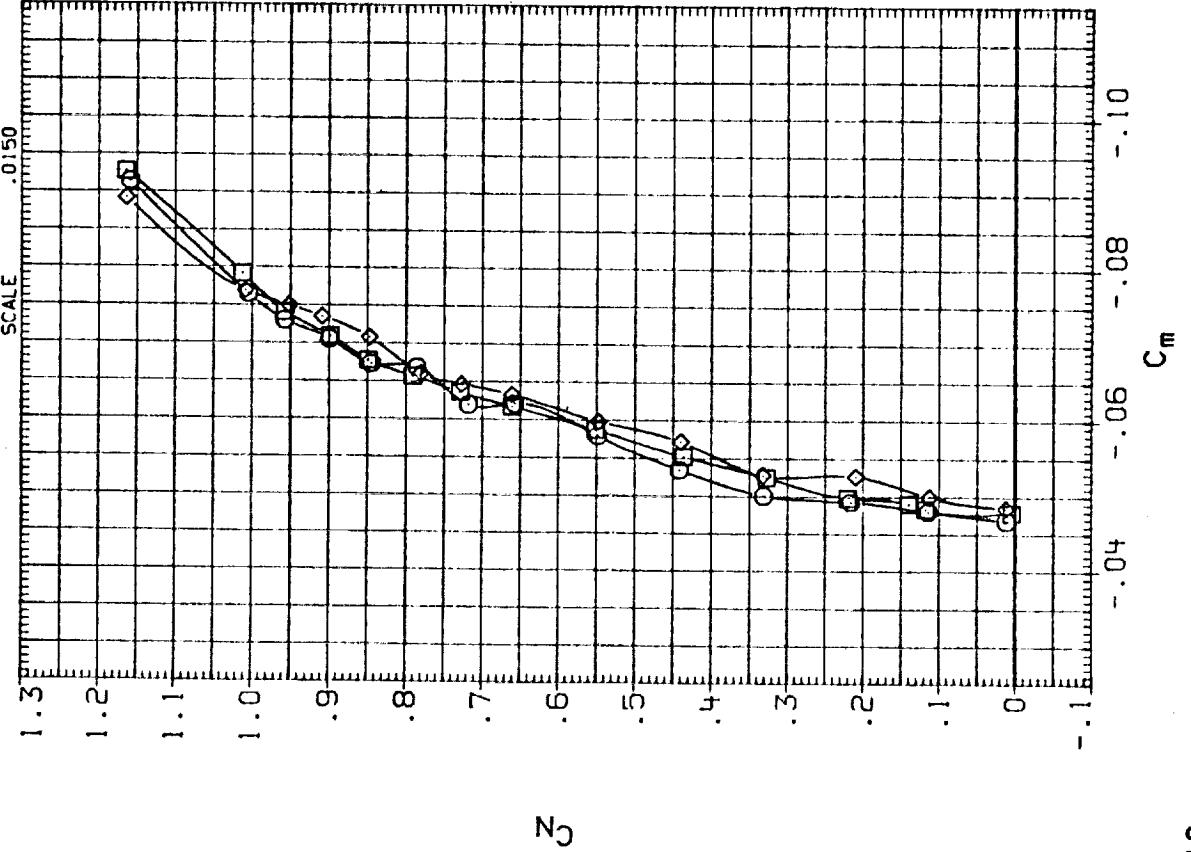
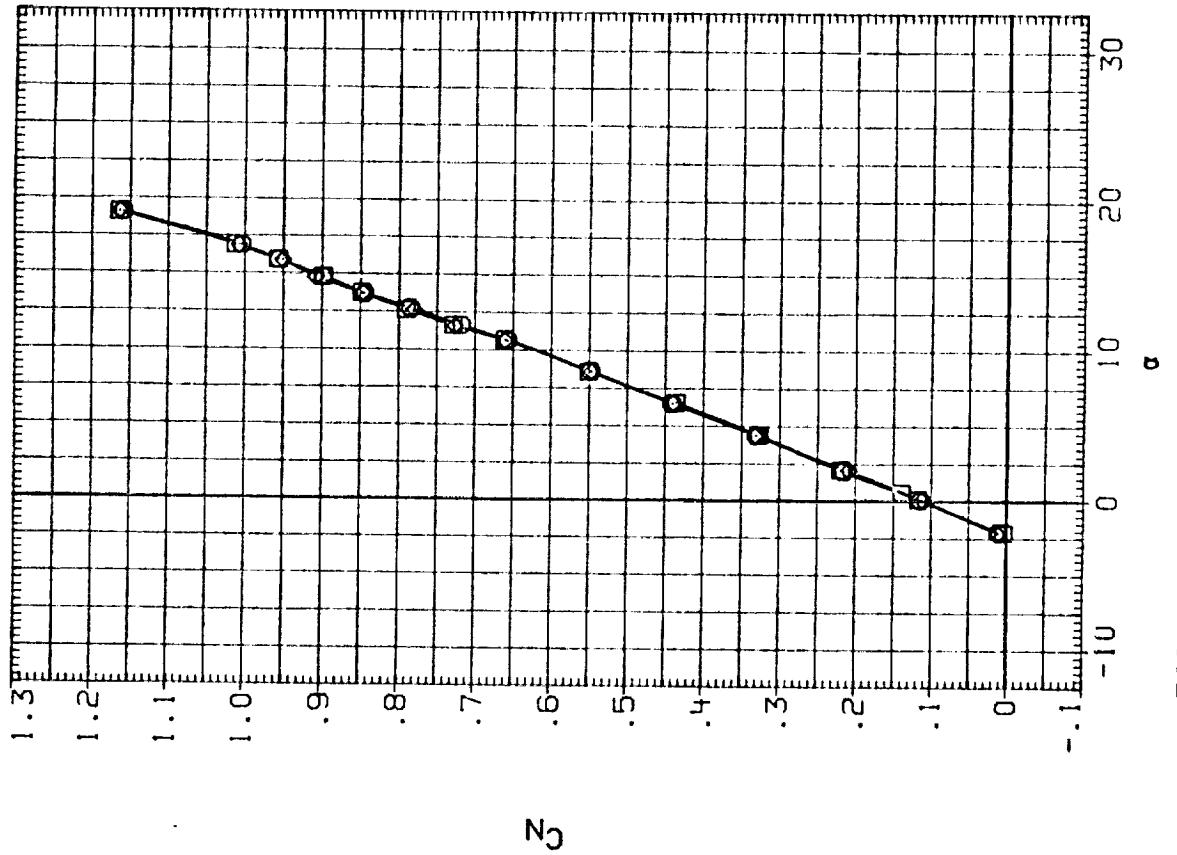


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK048) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK036) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK045) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA -2.000
 .000
 2.000

RN/L 4.500
 4.500
 4.500

ELEVON 10.000
 10.000
 10.000

AILLON .000
 .000
 .000

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0

SCALE .0150

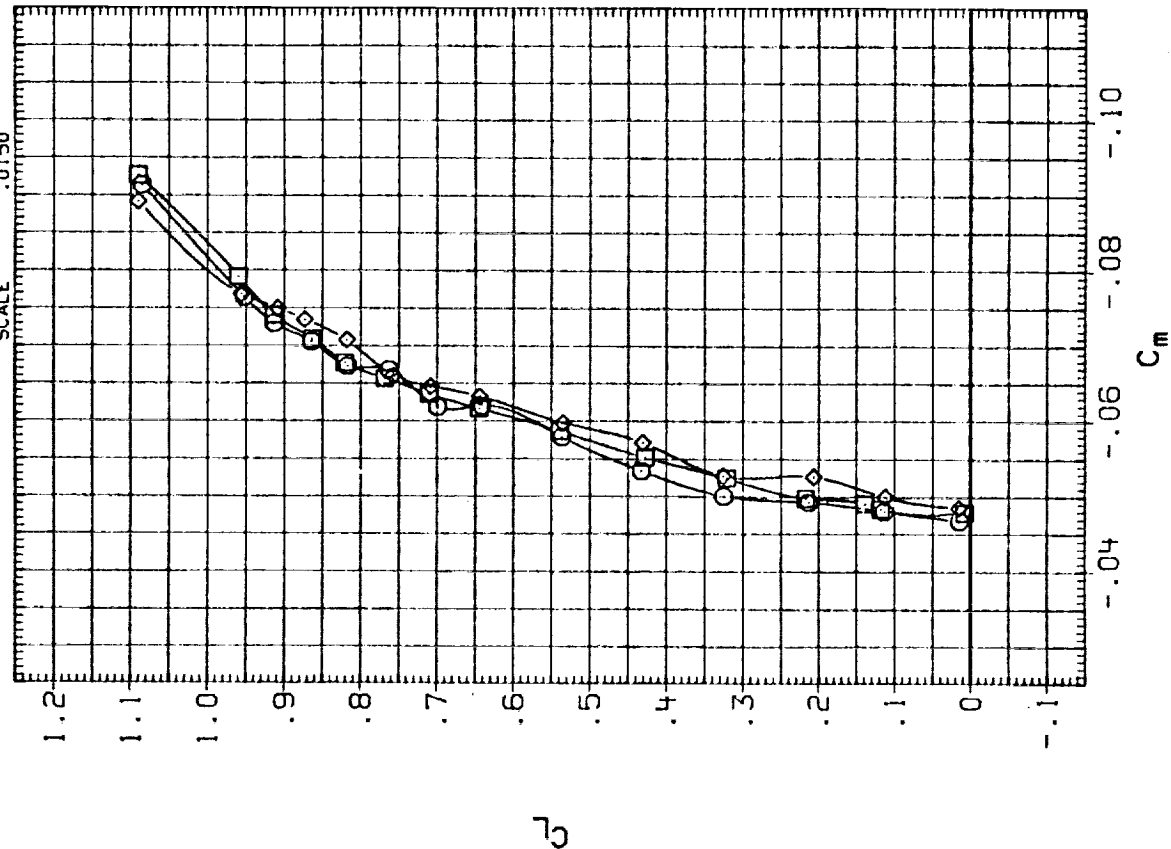
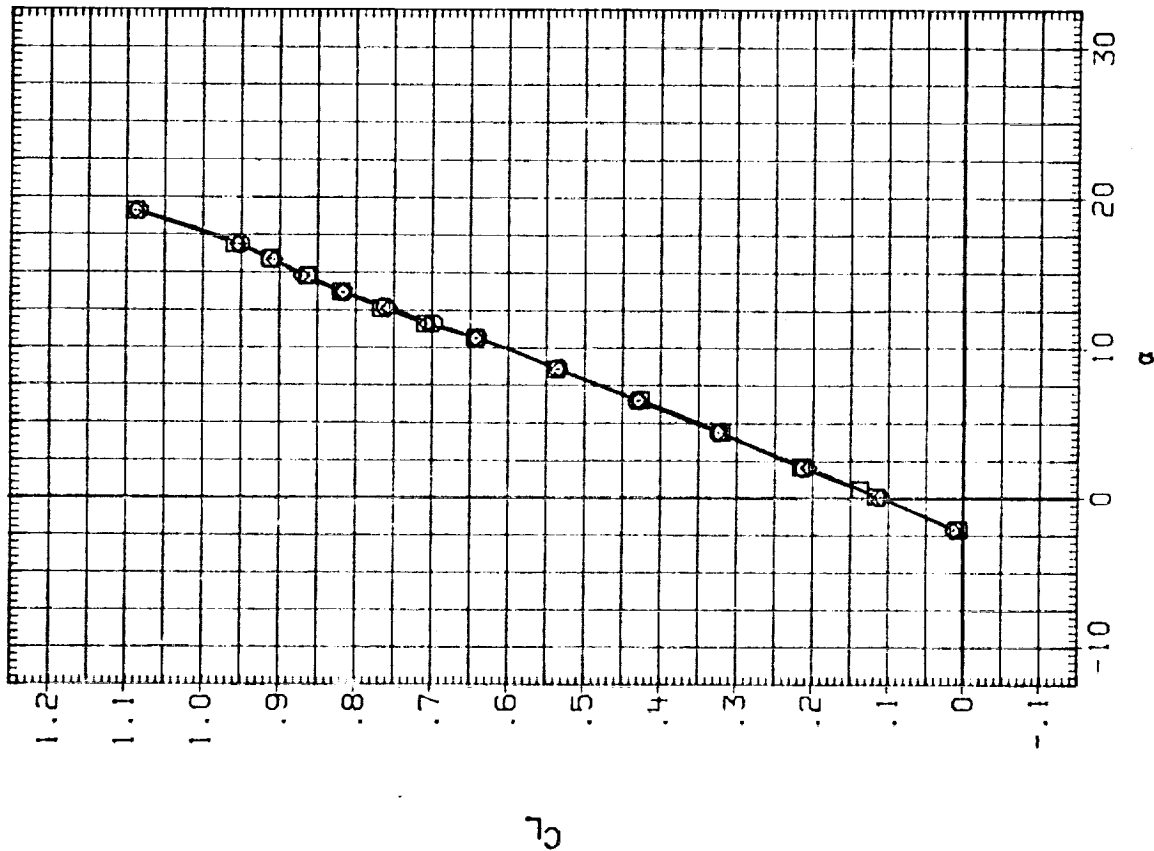


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .60

| | | | | | | |
|-----------------|--|--------|-------|--------|---------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILTRON | REFERENCE INFORMATION |
| (RUK048) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -2.000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK045) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 2.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

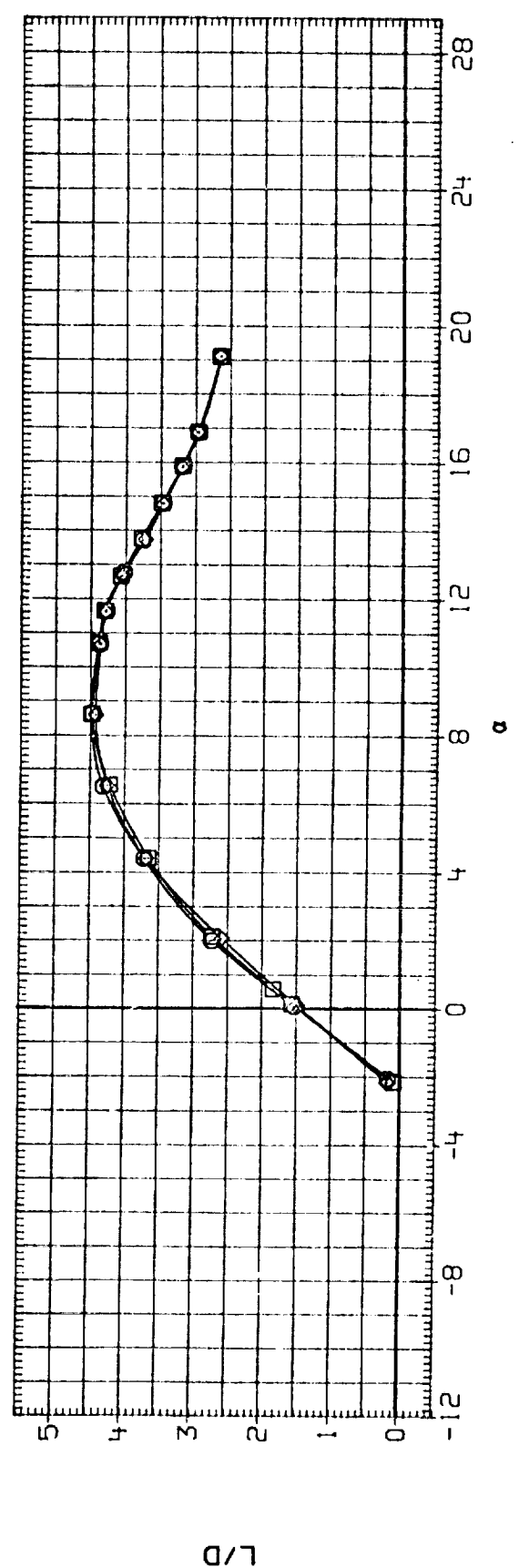
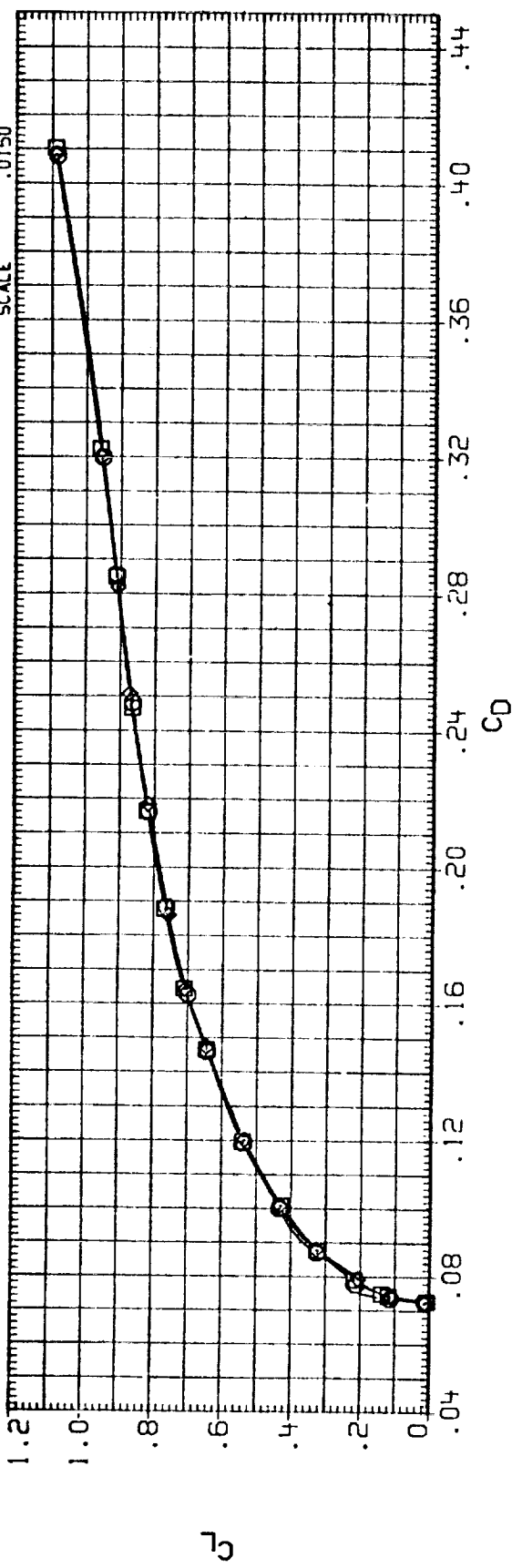


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A)MACH = .60

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (RUK048) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -2.000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK045) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 2.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

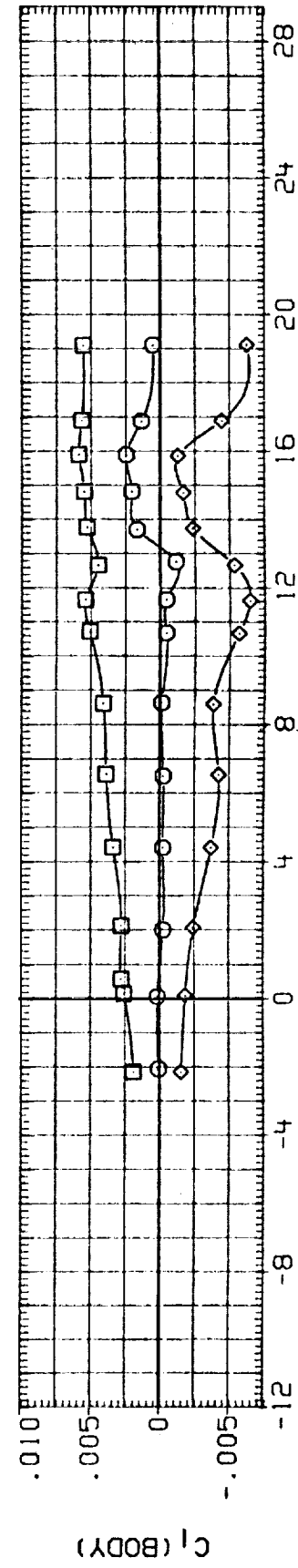
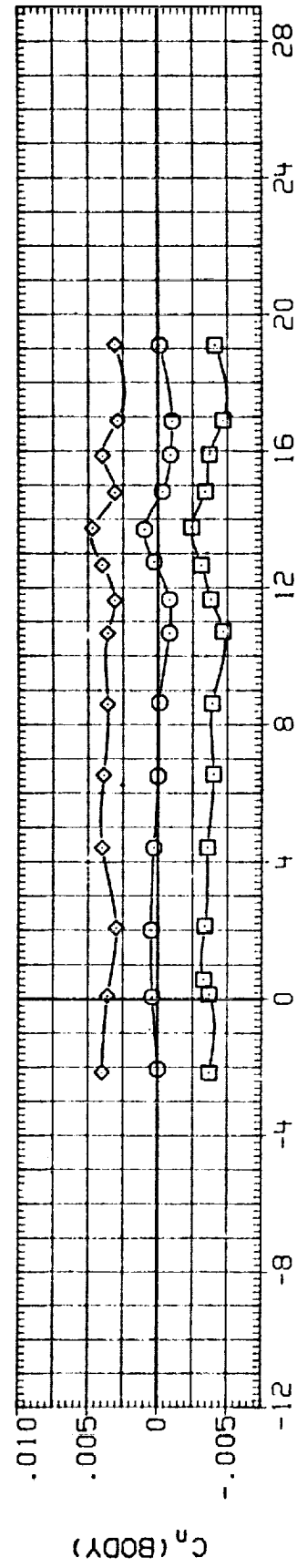
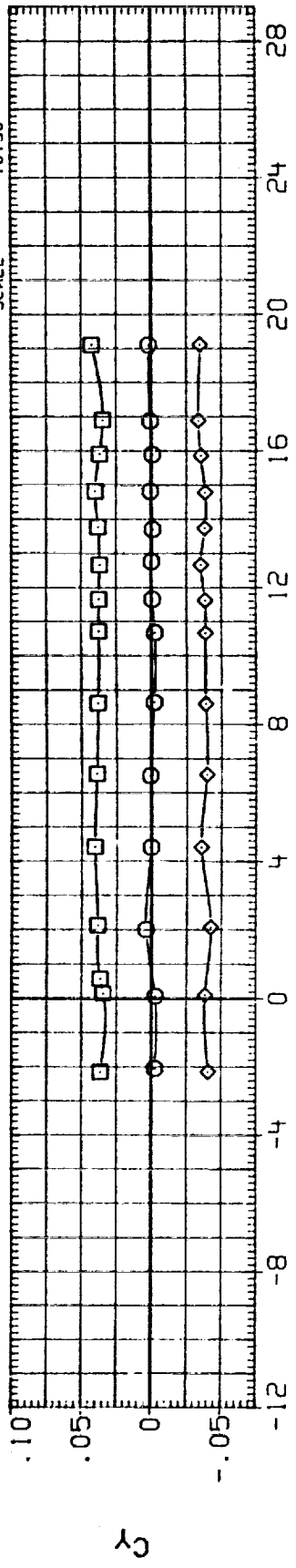


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|-----------------------|
| (CUK048) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -2.000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK056) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (CUK051) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 2.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

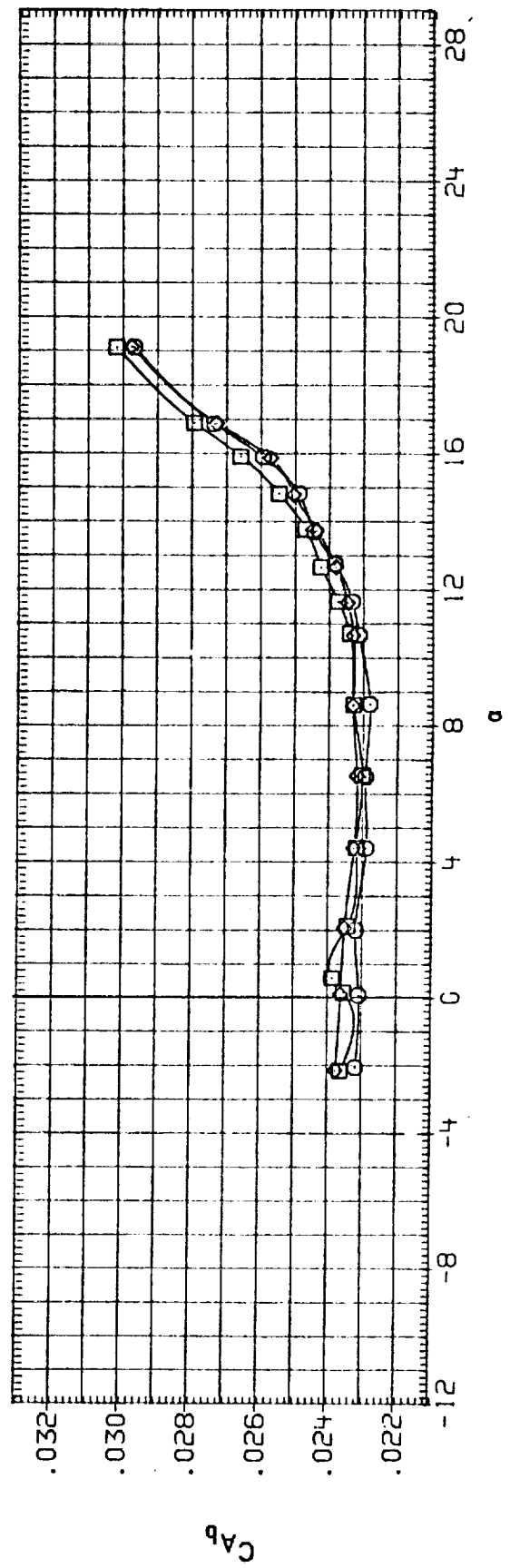
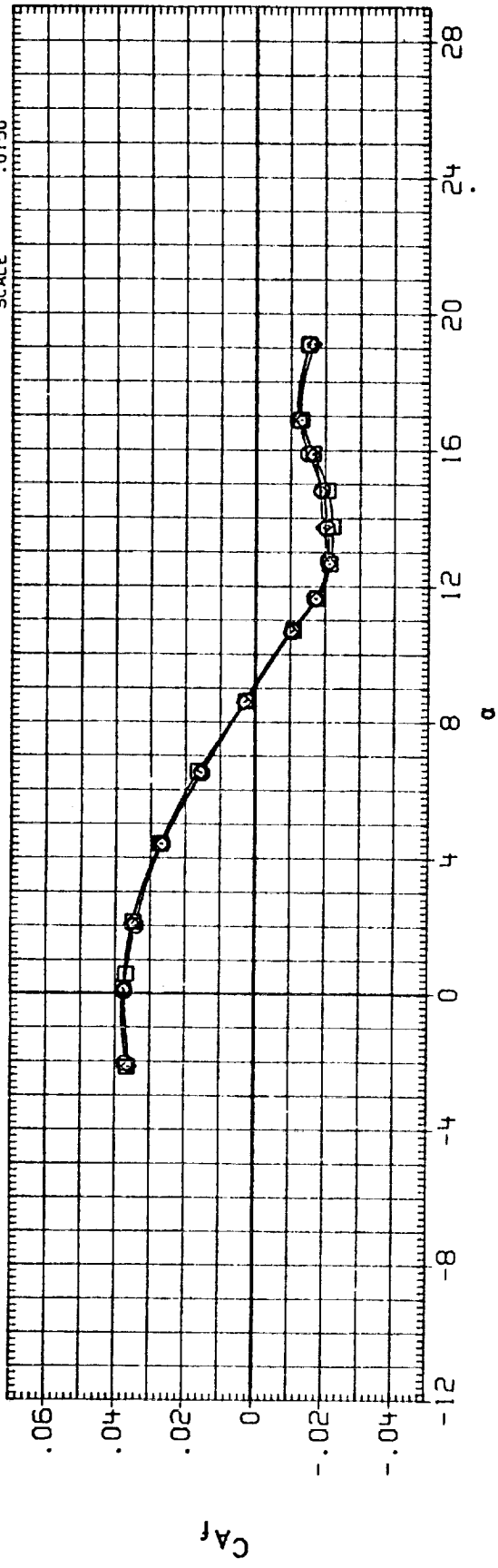


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

- (CUK048) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (CUK036) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- (CUK045) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA -2.000
 RN/L 4.500
 ELEVON 10.000
 AIRLON .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

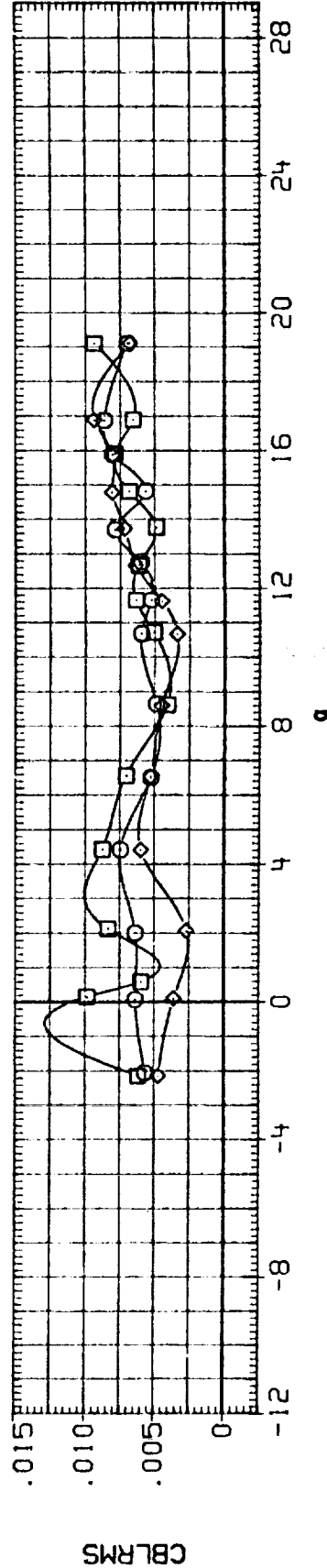
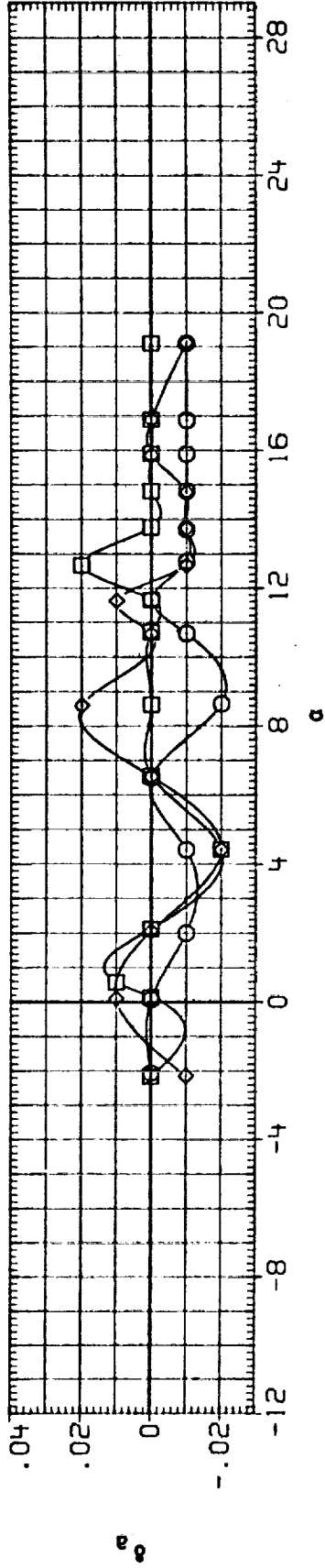
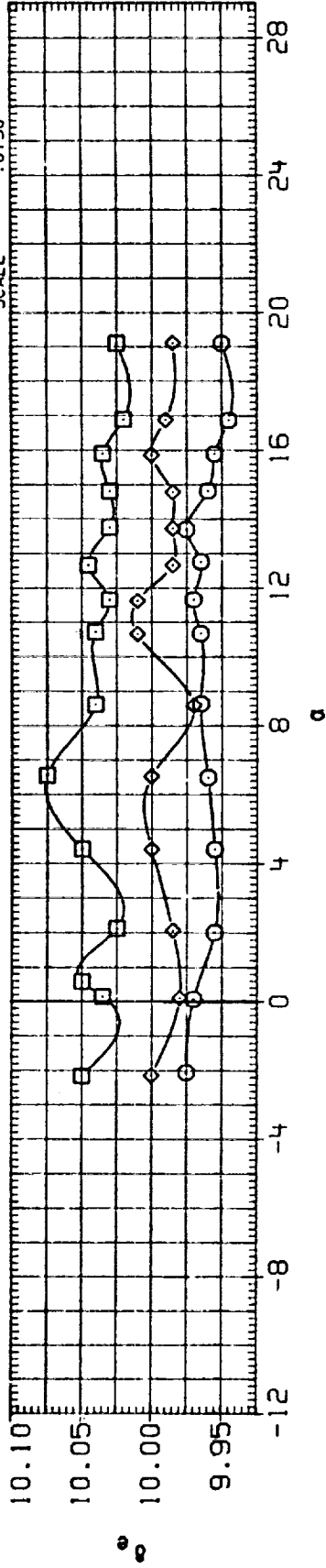


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK048) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK036) ○ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK045) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

BETA -2.000

RV/L 4.500

ELEVON 10.000

AIRLON .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE 0.150

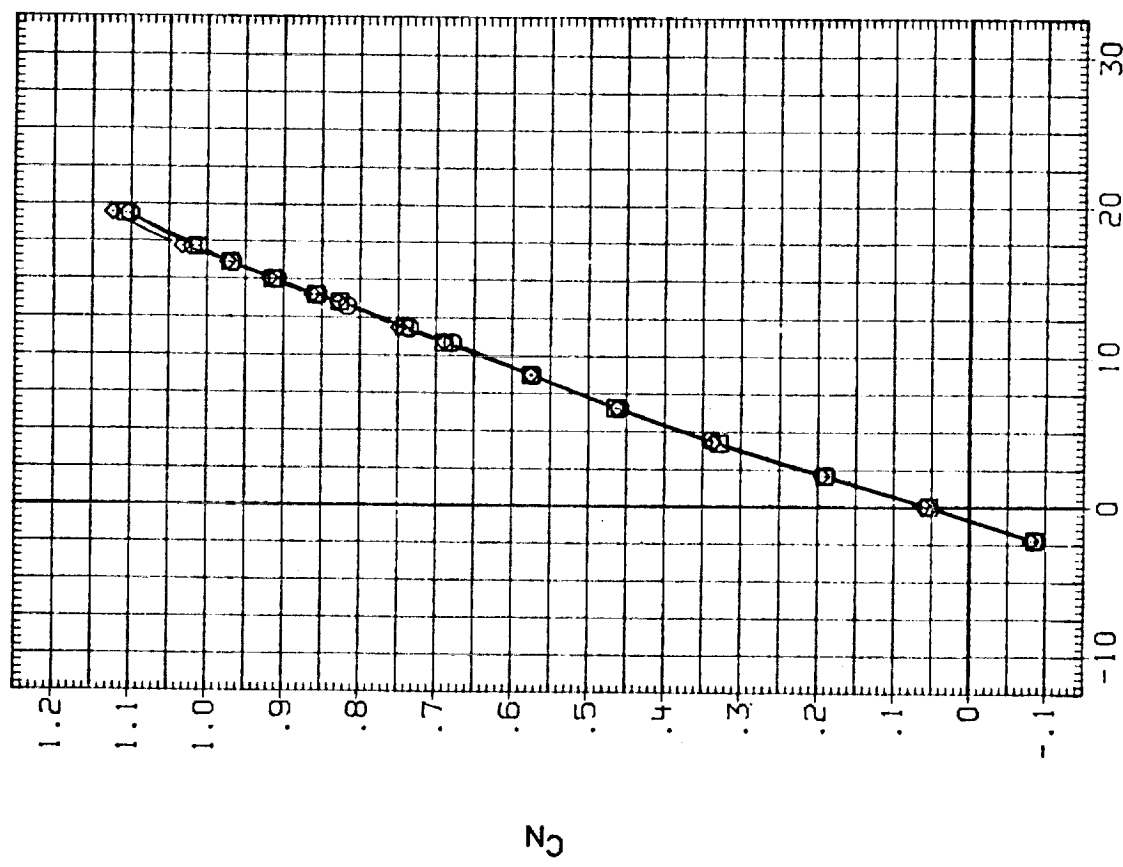
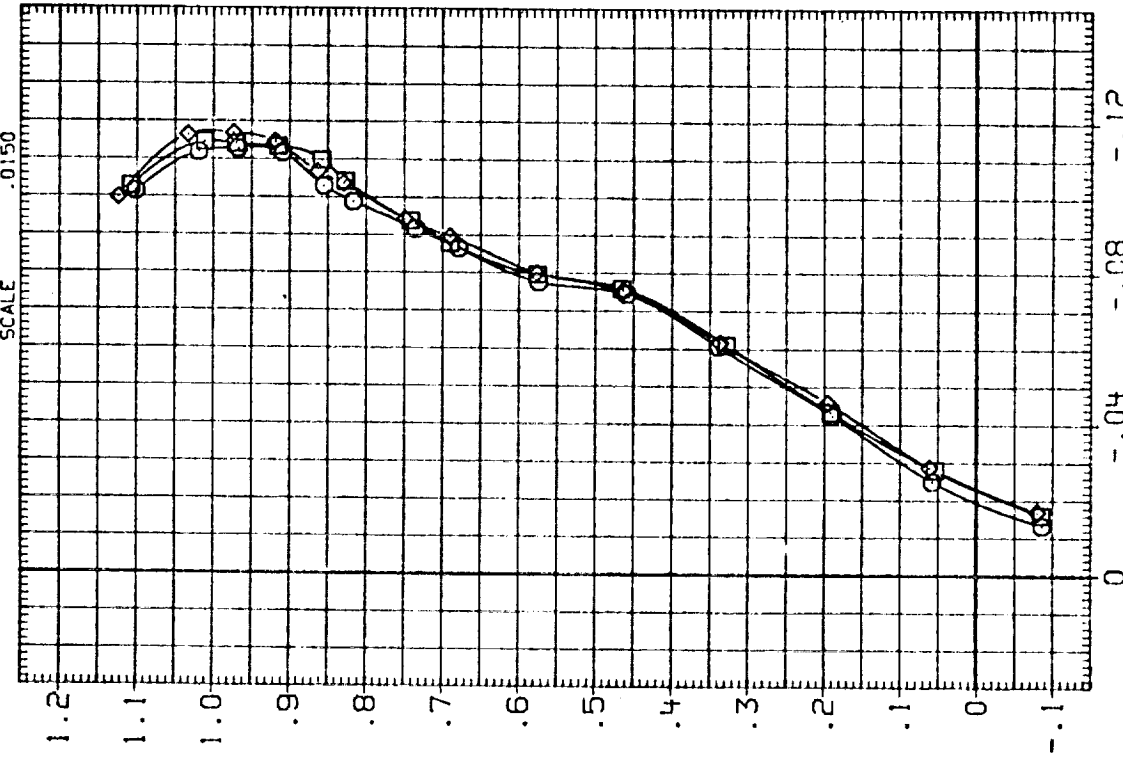
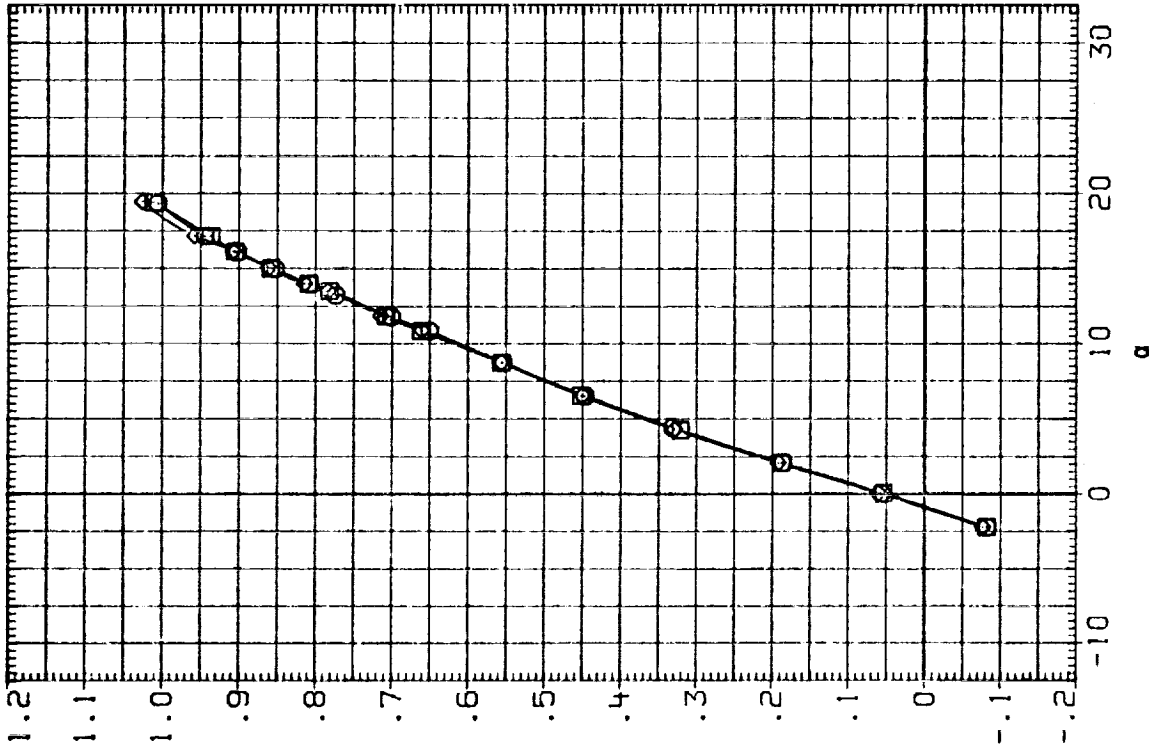


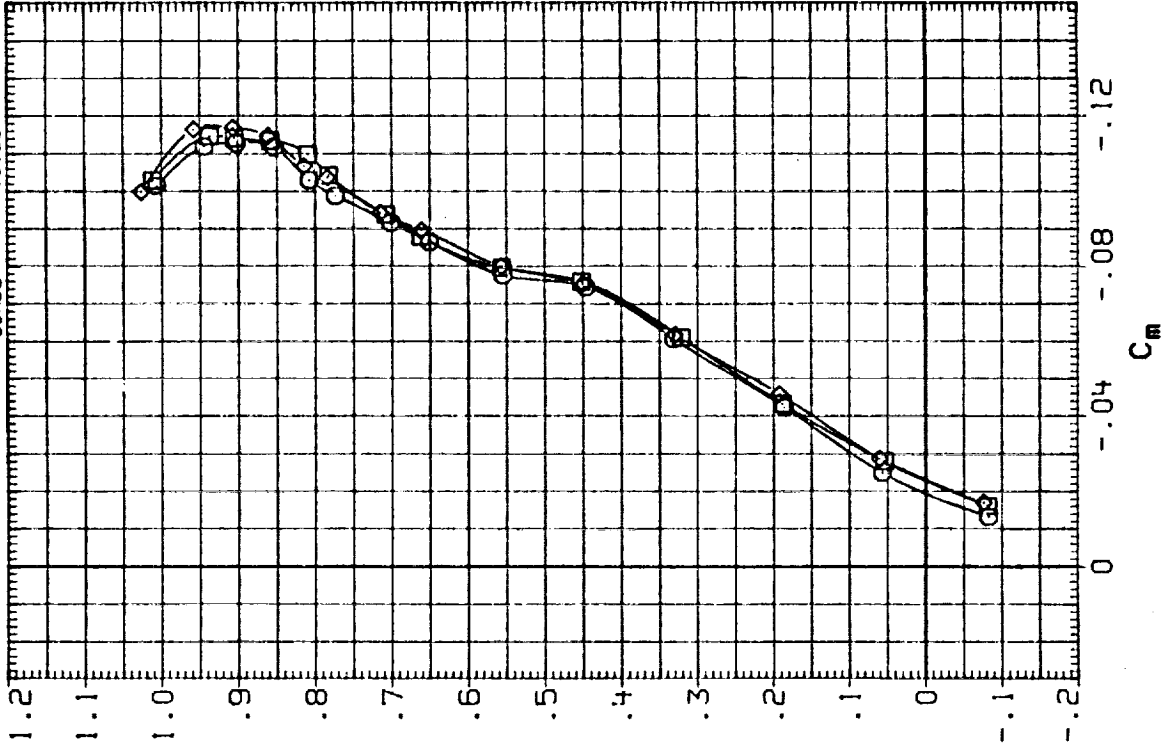
FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK048) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK036) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK045) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)



BETA RN/L ELEVON AIRLON
 -2.000 4.500 10.000 .000
 .000 4.500 10.000 .000
 2.000 4.500 10.000 .000



REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BRREF 936.6800 INCHES
 XMRP 1076.7000 IN. XC
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK048) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK036) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK045) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

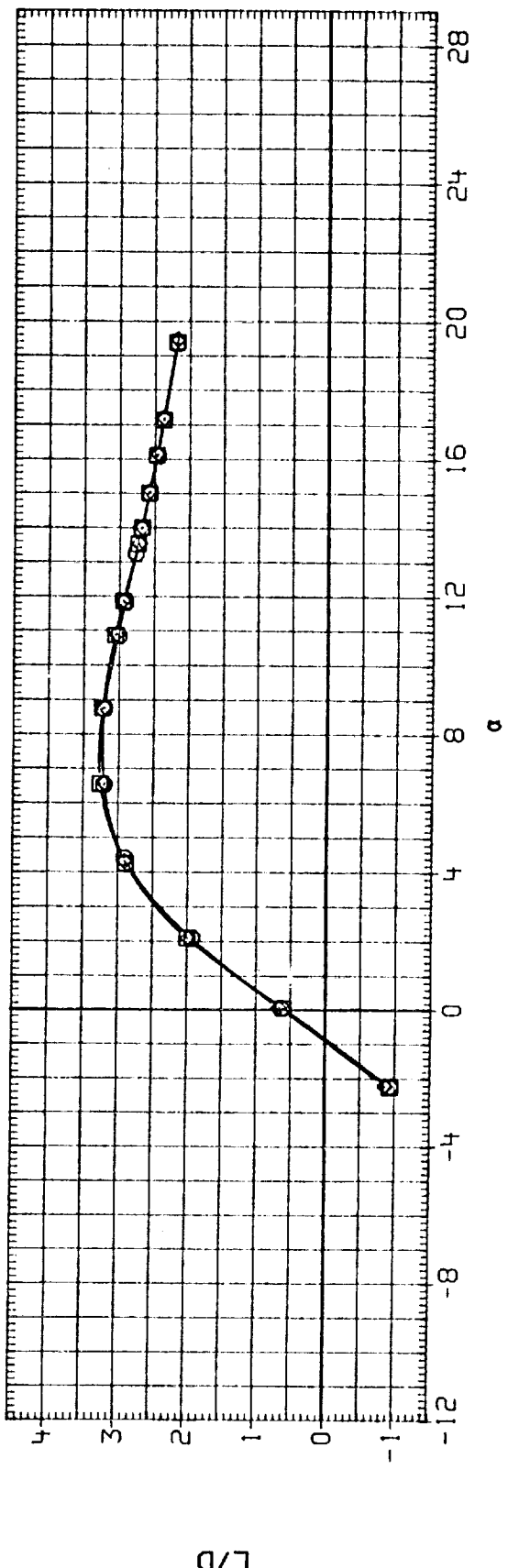
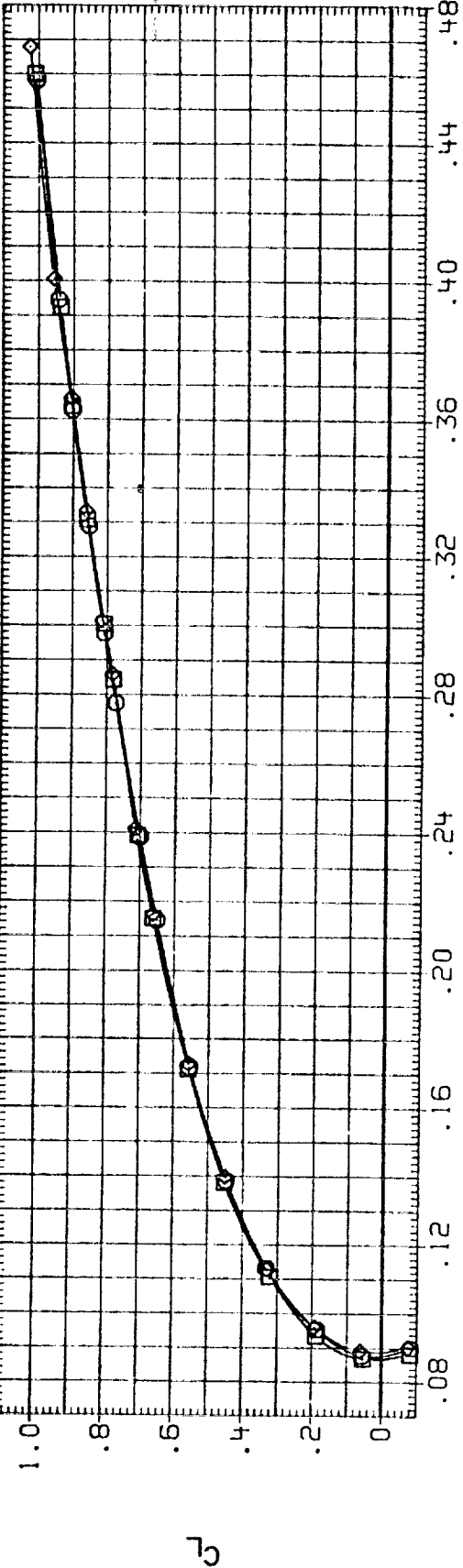


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .90

DATA SET SYMBOL

CONFIGURATION DESCRIPTION

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA

RN/L

ELEVON AILTRON

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

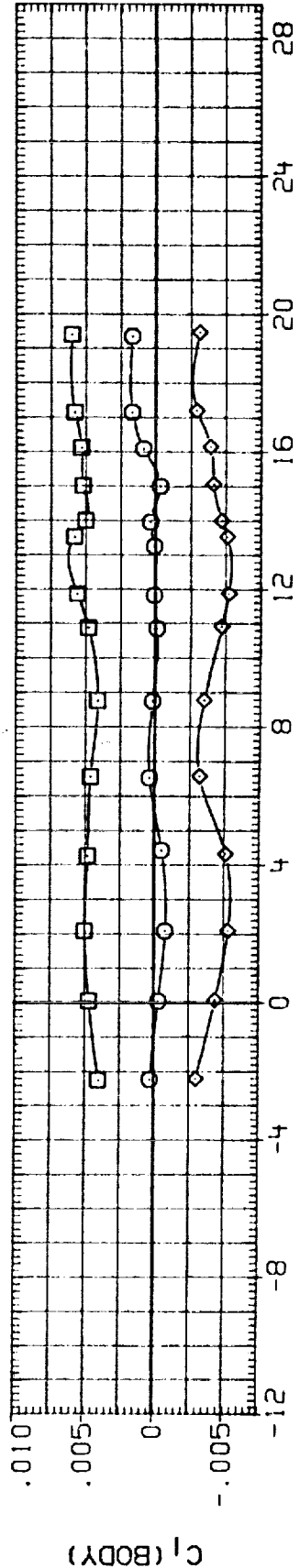
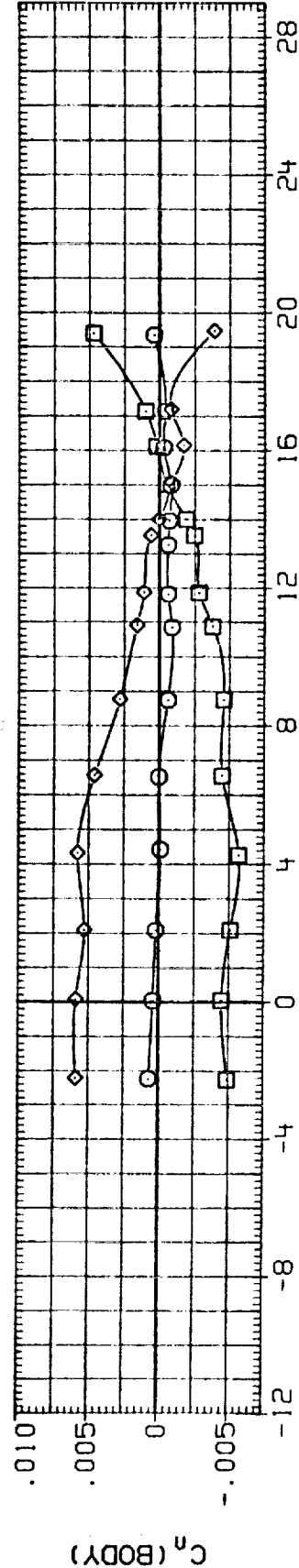
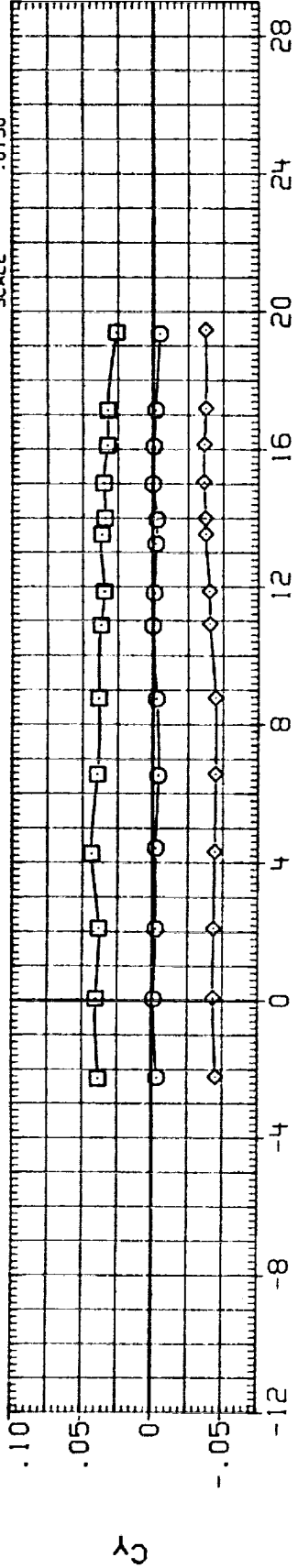


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .90

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
| (CUK048) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -2.000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SO.FT. |
| (CUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (CUK045) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 2.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

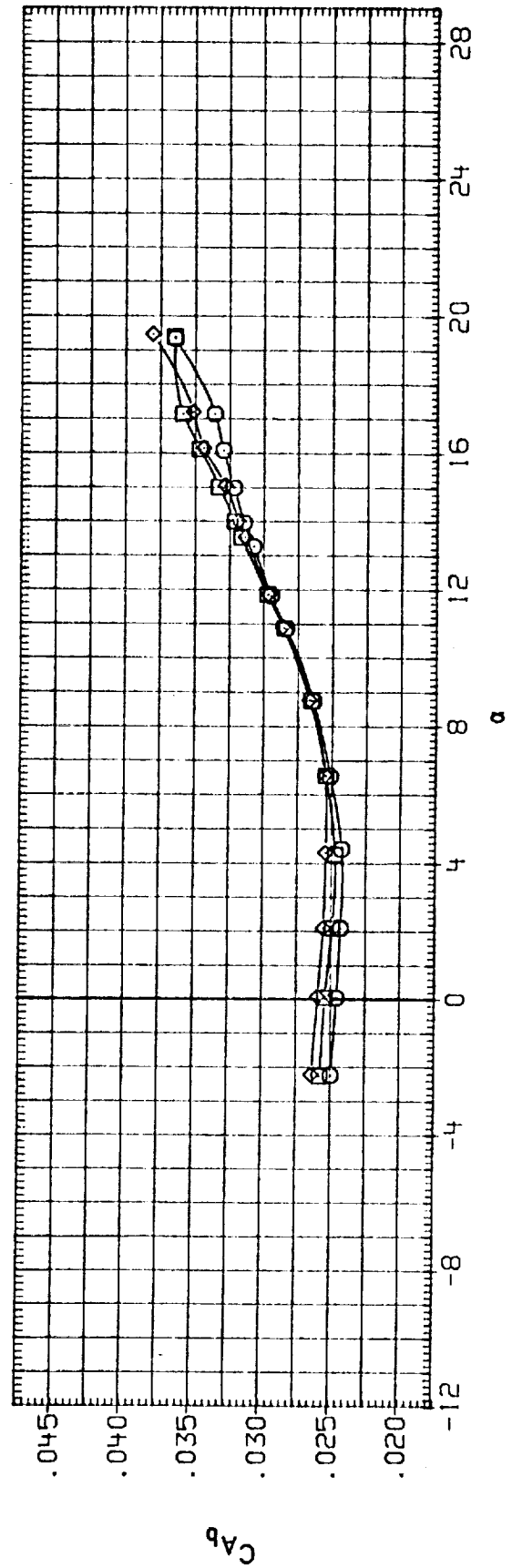
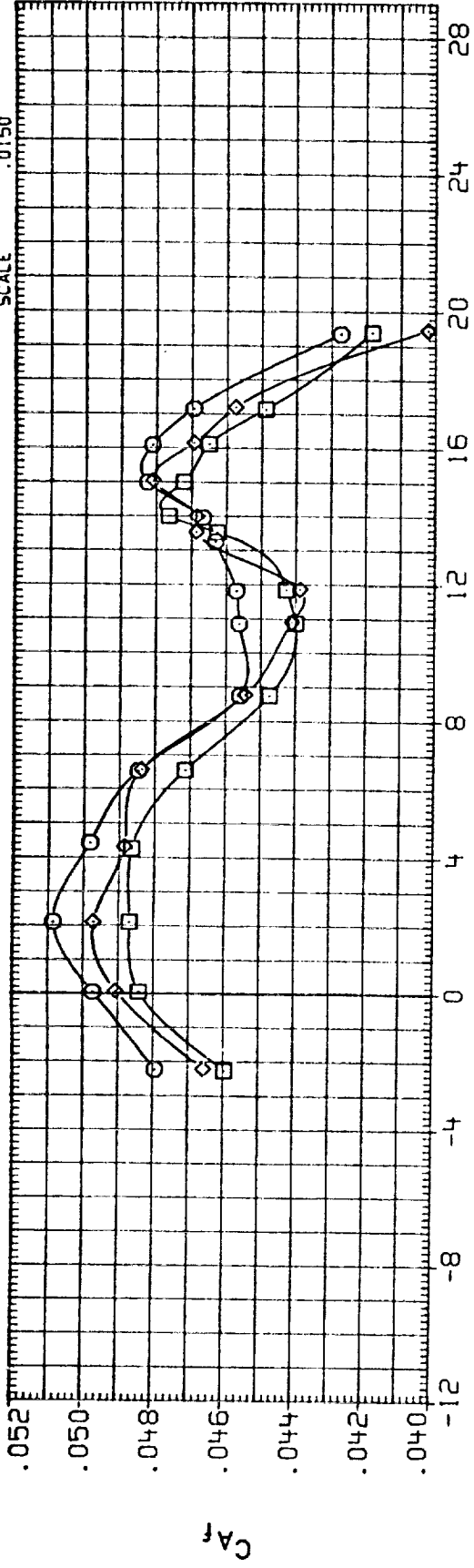


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK048) □ LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)

(CUK036) ○ LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)

(CUK045) ◇ LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)

BETA RN/L ELEVON AIRLON

-2.000 4.500 10.000 .000

.000 4.500 10.000 .000

2.000 4.500 10.000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

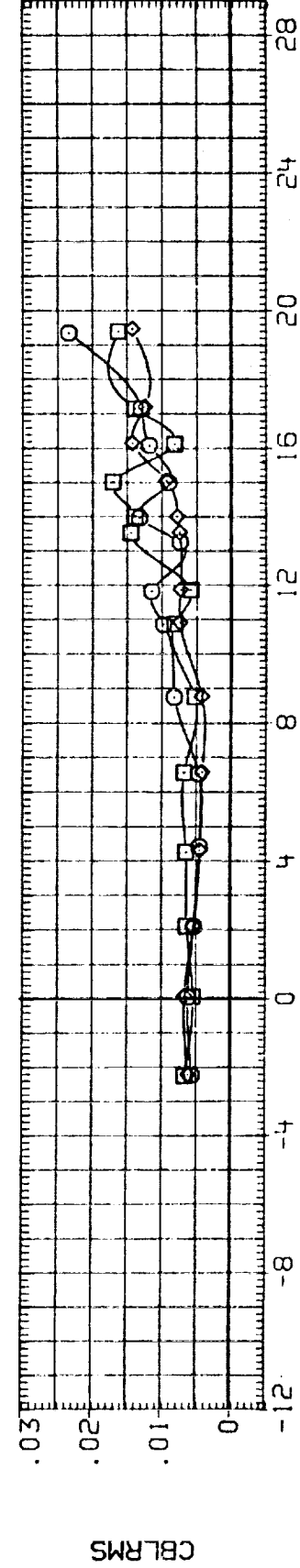
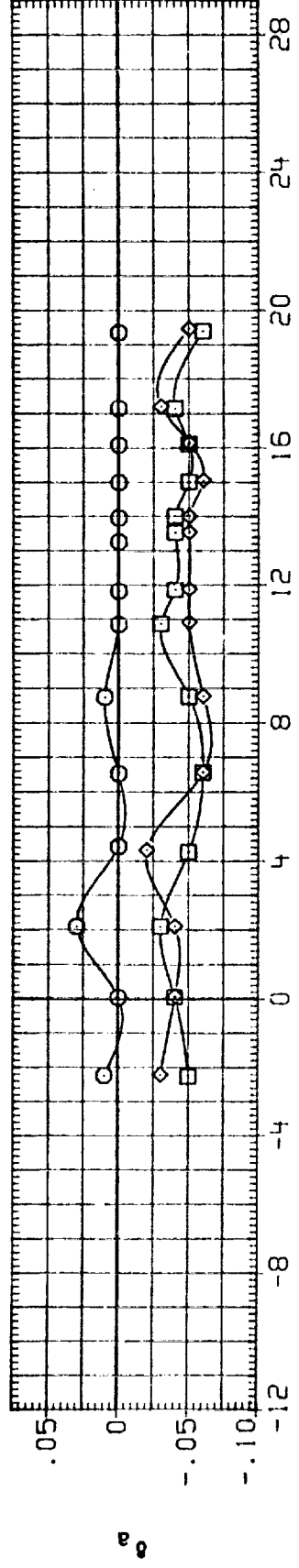
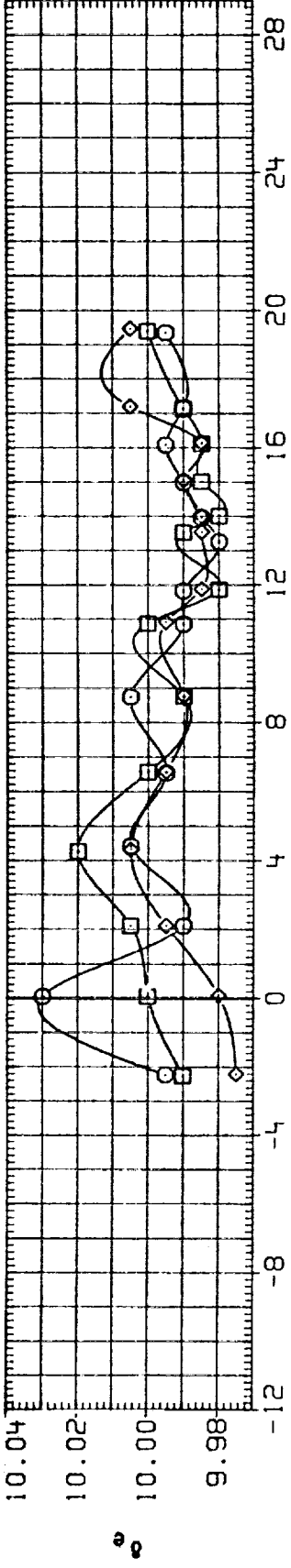
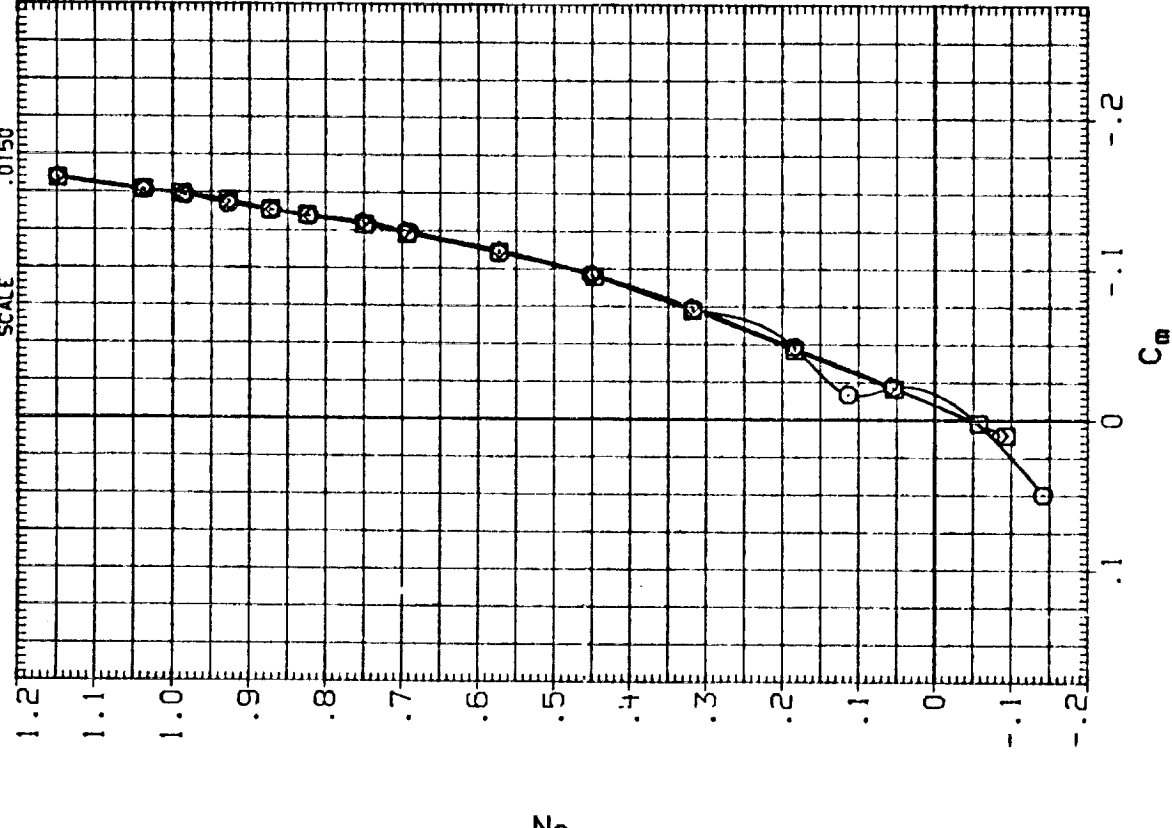


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|-----------------------|
| (RUK038) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | .000 | 4.000 | 10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK046) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 2.000 | 4.000 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK049) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | -2.000 | 4.000 | 10.000 | .000 | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |



| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|-----------------------|
| (RUK038) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | .000 | 4.000 | 10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK046) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 2.000 | 4.000 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK049) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | -2.000 | 4.000 | 10.000 | .000 | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

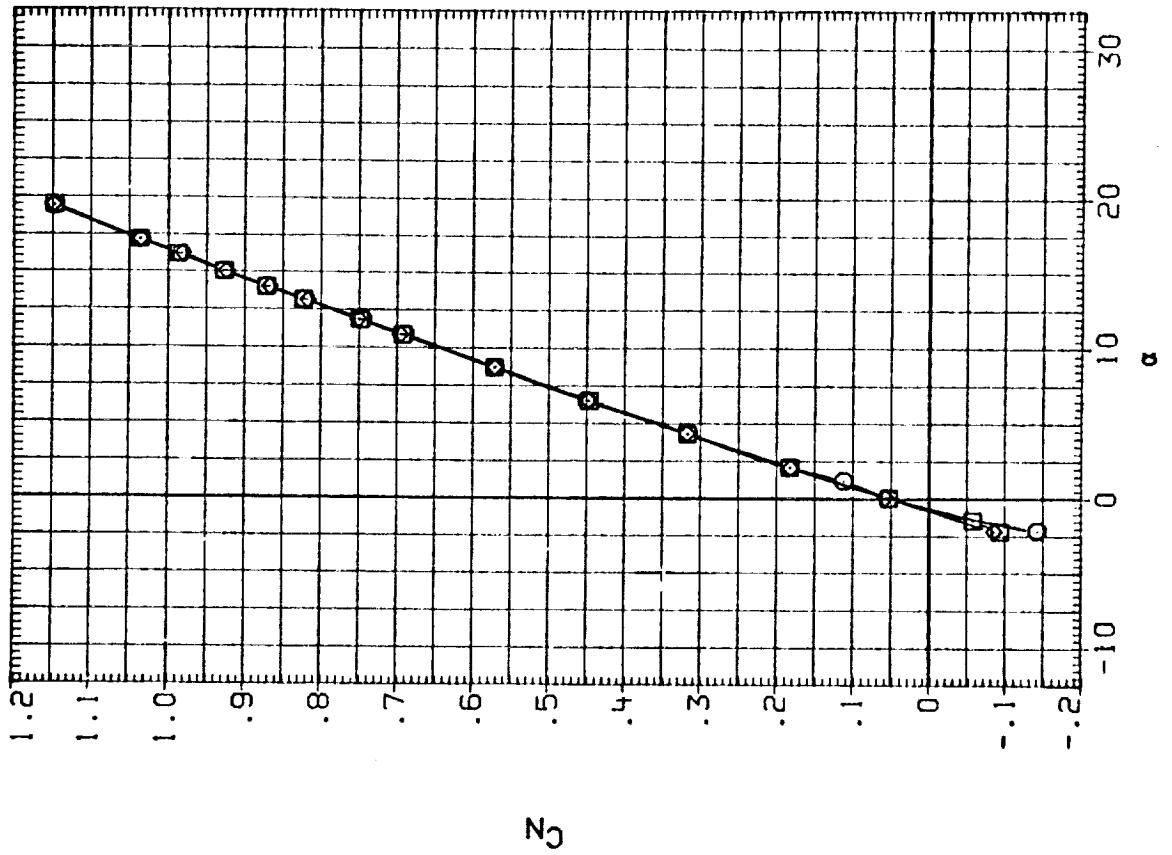


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A)MACH = 1.20

DATA SET SYMBOL
 (RUK038) \circ
 (RUK046) \diamond
 (RUK049) \square

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000
 .000
 2.000
 -2.000

RN/L 4.000
 4.000
 4.000

ELEVON 10.000
 10.000
 10.000

AILIRON .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

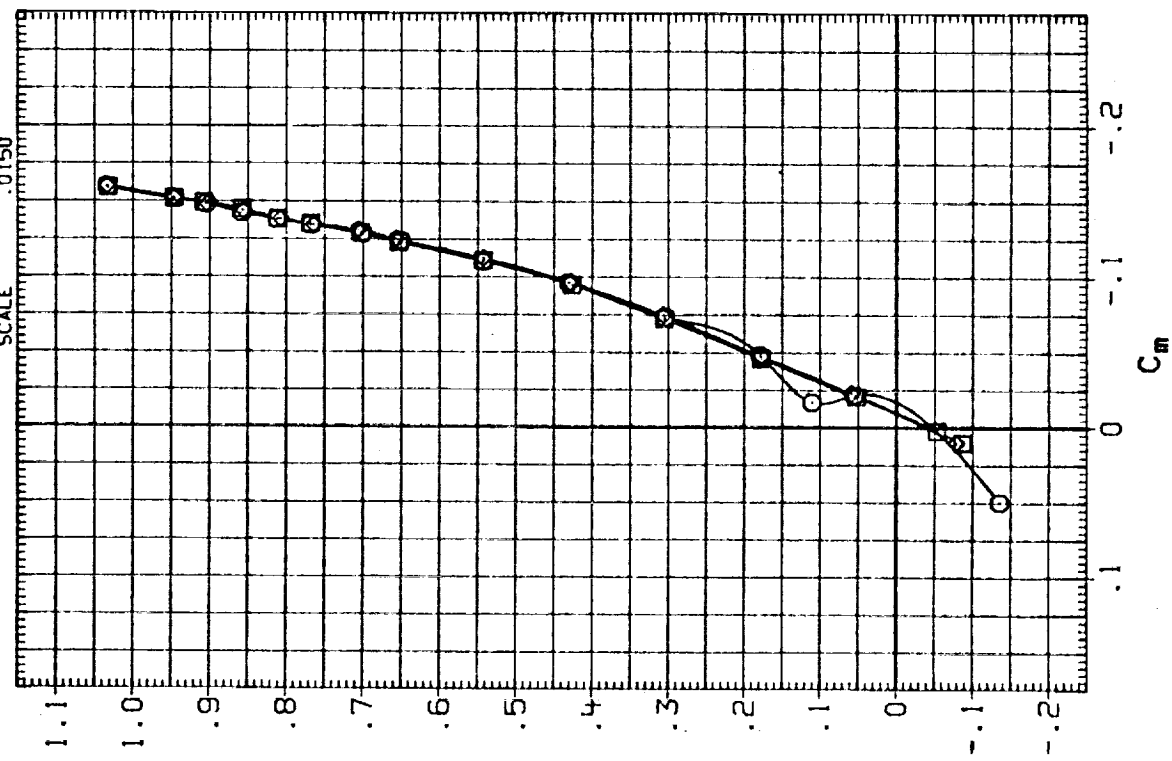
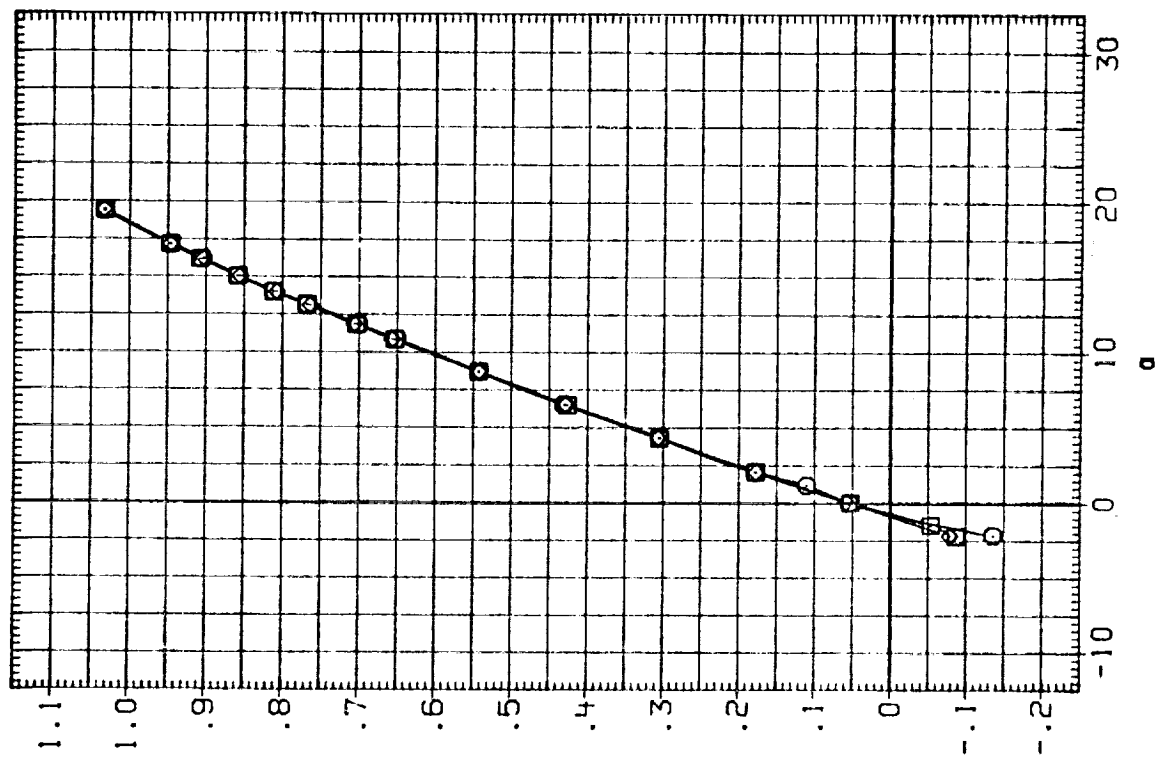


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = 1.20

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|-----------------------|
| (RUK038) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.000 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK046) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 2.000 | 4.000 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK049) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -2.000 | 4.000 | 10.000 | .000 | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

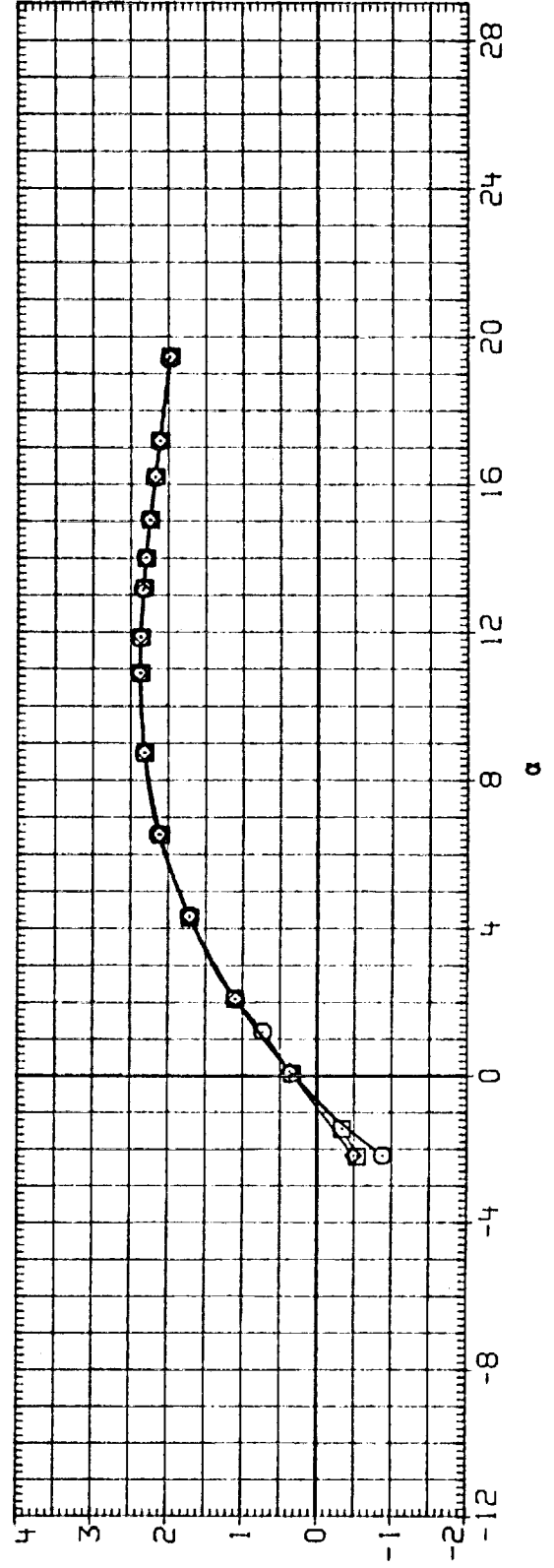
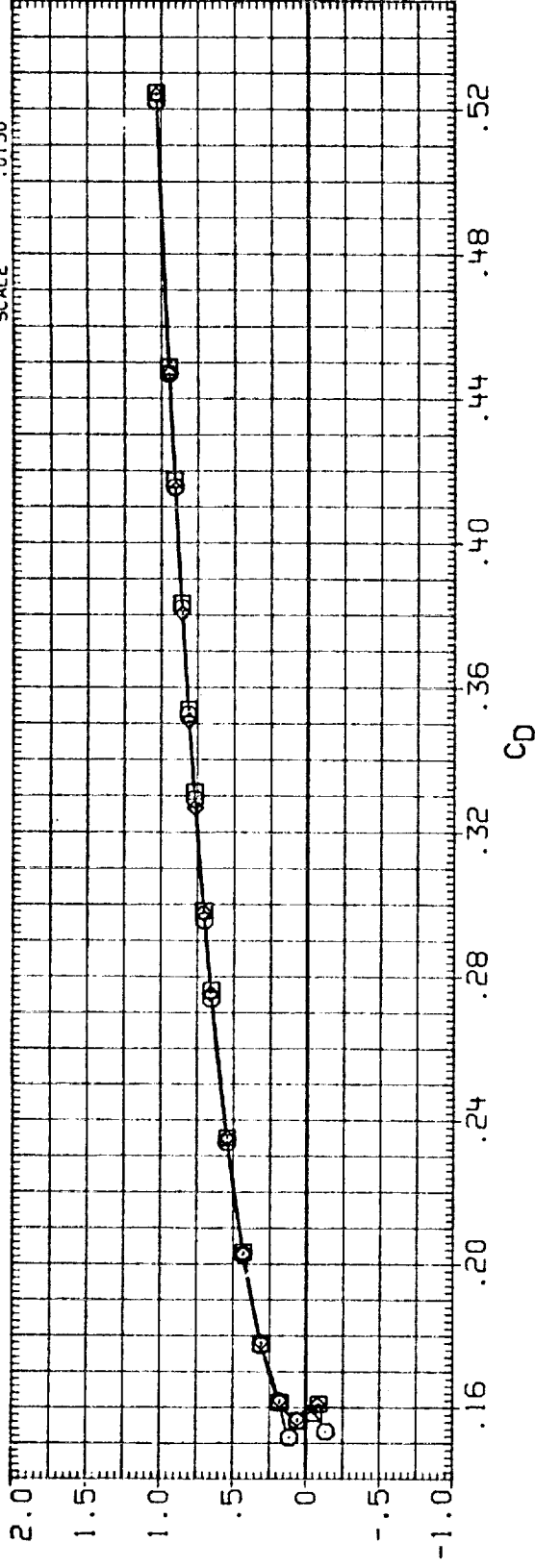


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK038) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK046) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK049) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIRLON

.000 4.000 10.000 .000

2.000 4.000 10.000 .000

-2.000 4.000 10.000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

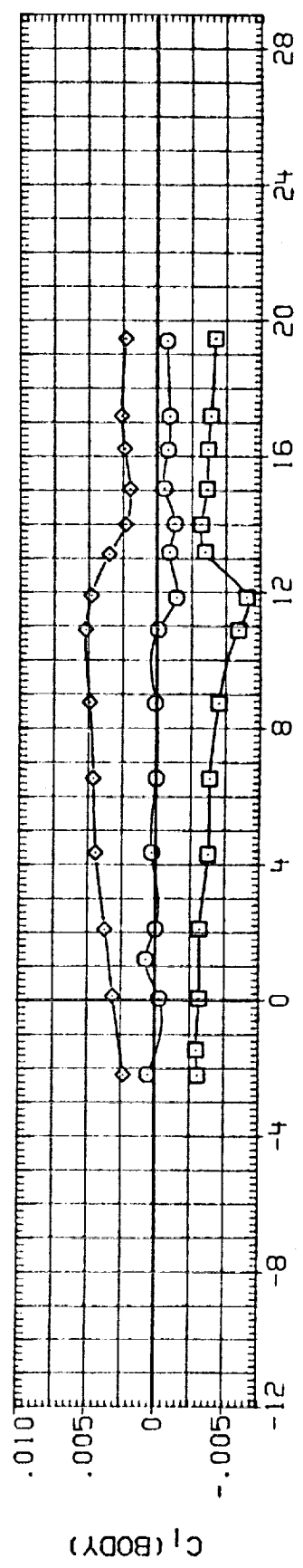
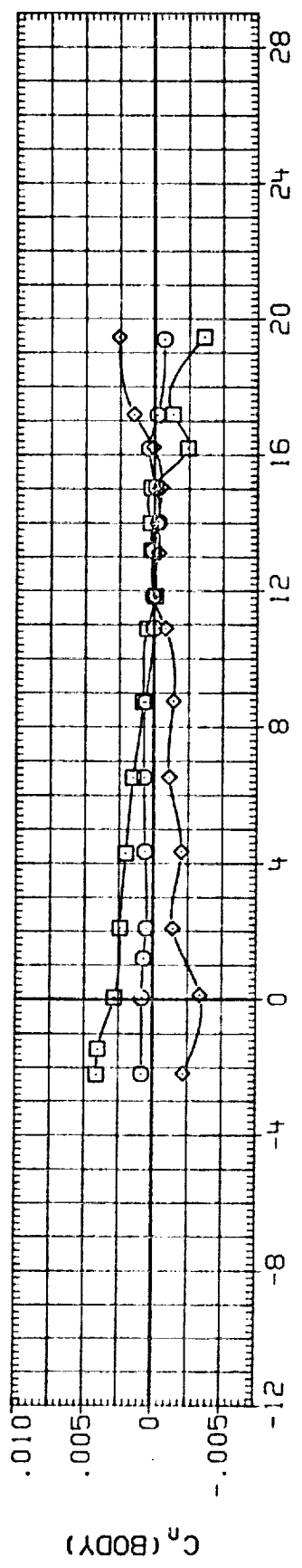
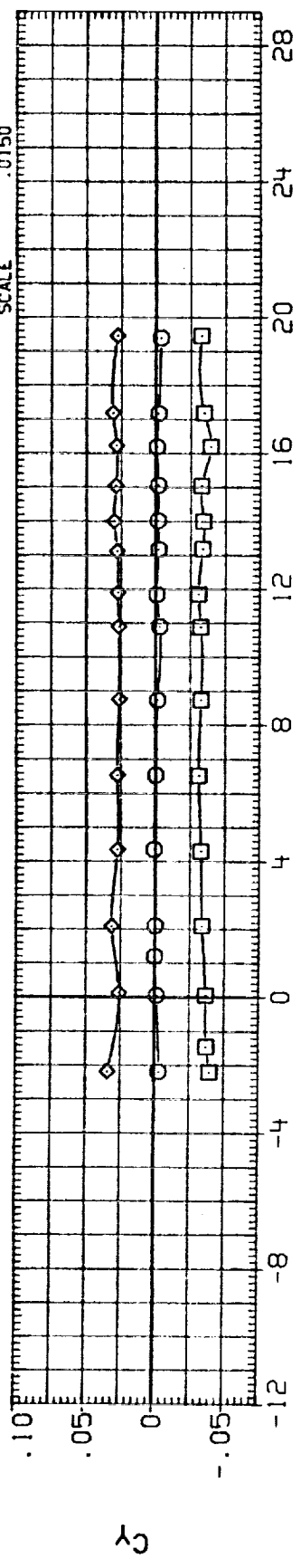


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = 1.20

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| (CUK038) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.000 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK046) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 2.000 | 4.000 | 10.000 | .000 | LREF 474.8000 INCHES |
| (CUK049) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -2.000 | 4.000 | 10.000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

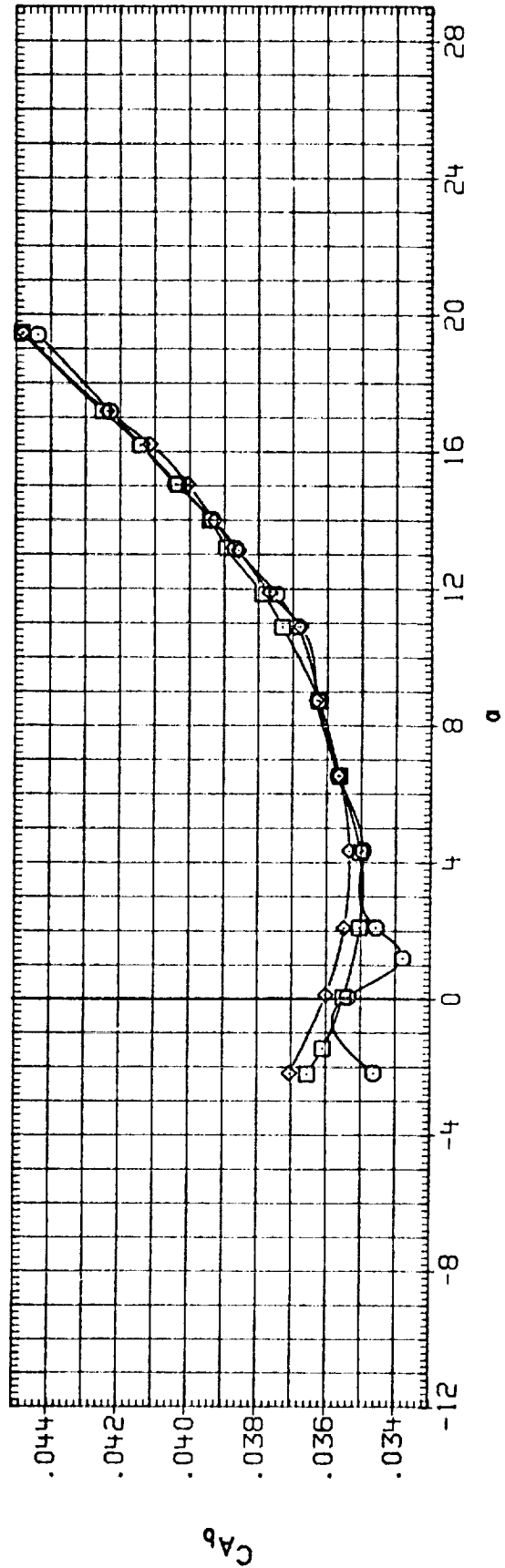
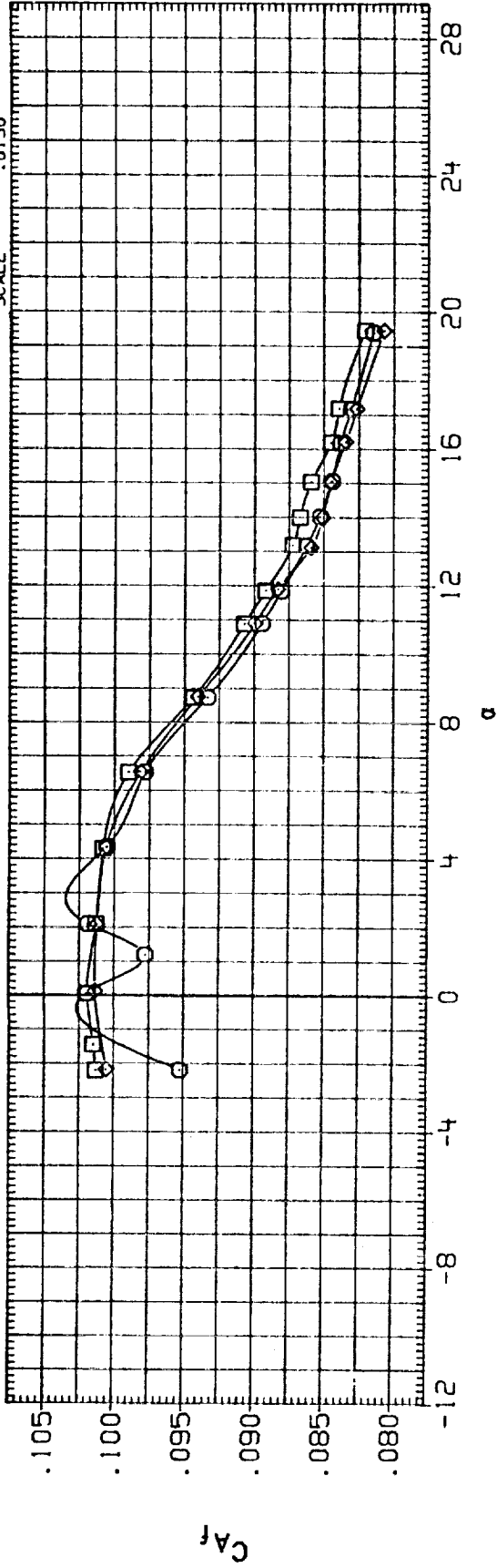


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A)MACH = 1.20

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (CUK038) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.000 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK046) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 2.000 | 4.000 | 10.000 | .000 | LREF 474.8000 INCHES |
| (CUK049) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | -2.000 | 4.000 | 10.000 | .000 | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

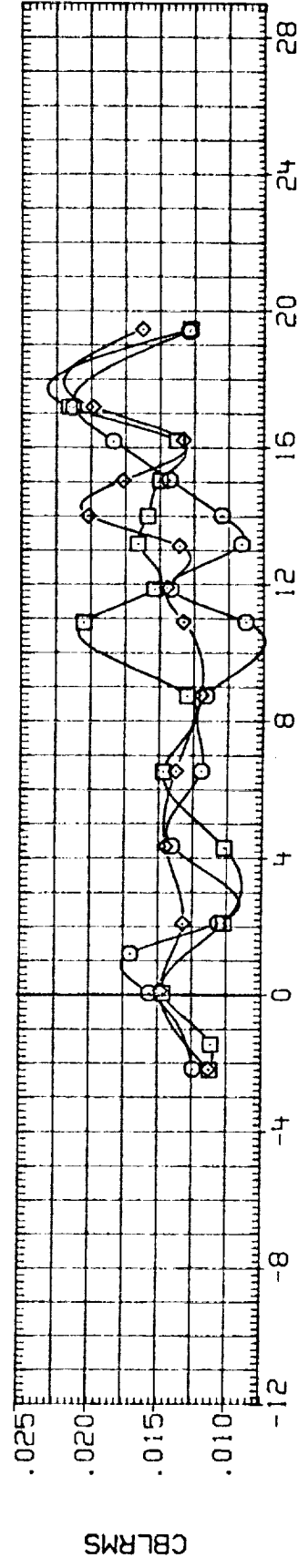
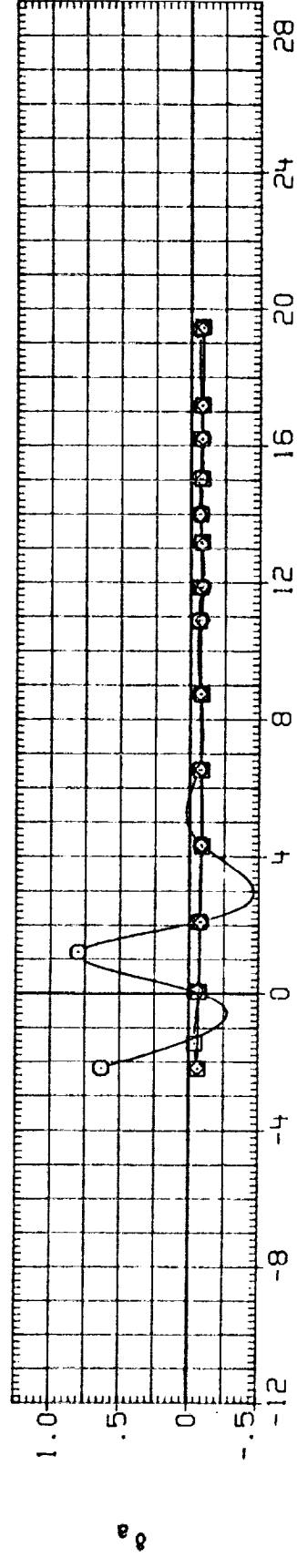
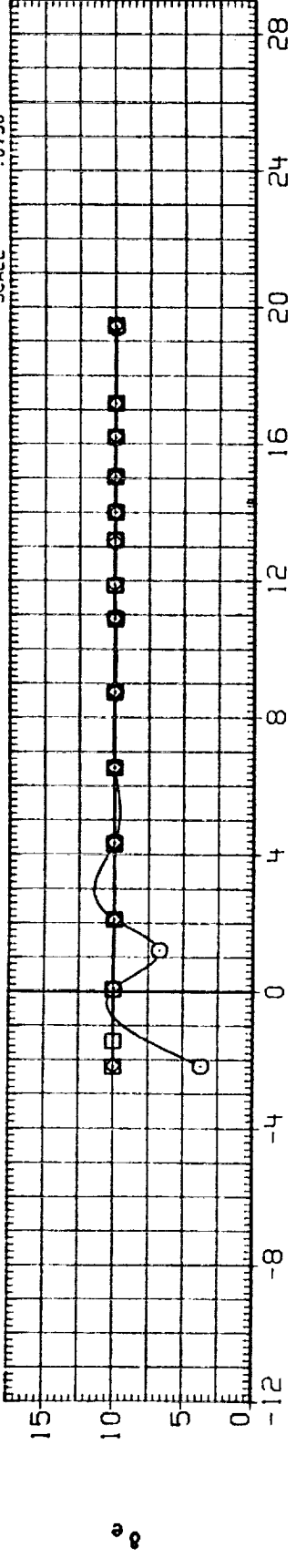


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A)MACH = 1.20

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | A I L R O N | REFERENCE INFORMATION | SQ. FT. |
|-----------------|--|--------|-------|--------|-------------|-----------------------|-----------|
| (RUK068) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | .000 | 4.500 | .000 | .000 | SREF | 2690.0000 |
| (RUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF | 474.8000 |
| (RUK074) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF | 936.6800 |
| (RUK079) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 15.000 | 4.500 | .000 | .000 | XMRP | 1076.7000 |
| (RUK084) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 20.000 | 4.500 | .000 | .000 | YMRP | .0000 |
| | | | | | | ZMRP | 375.0000 |
| | | | | | | SCALE | .0150 |

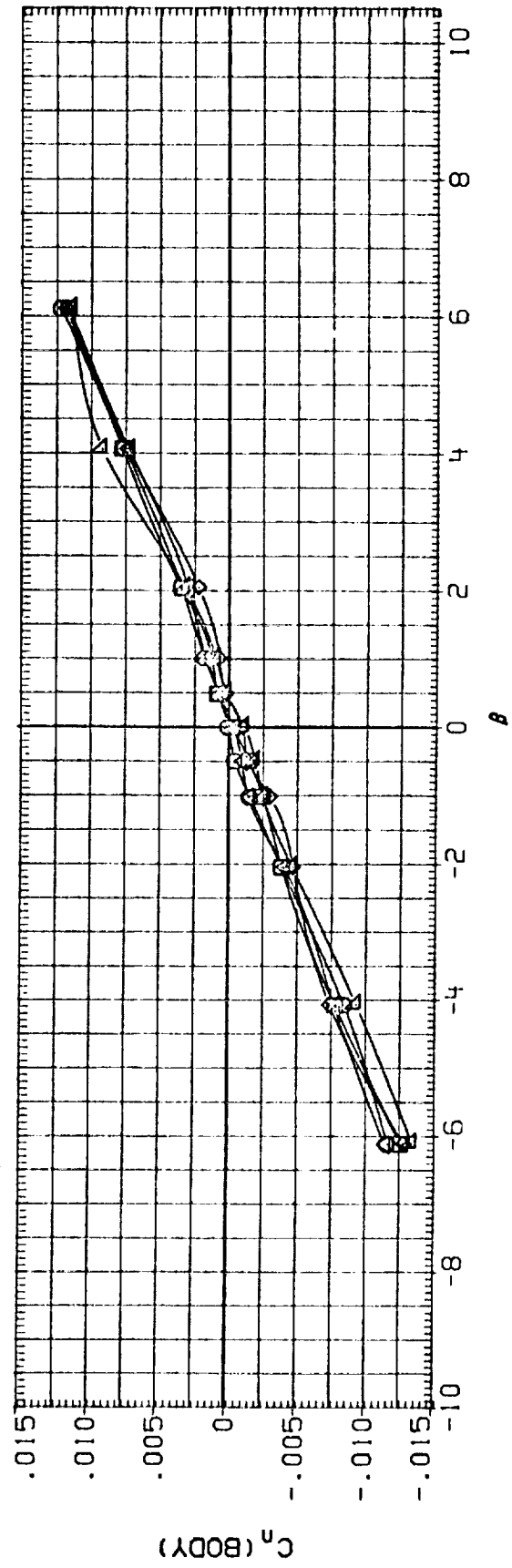
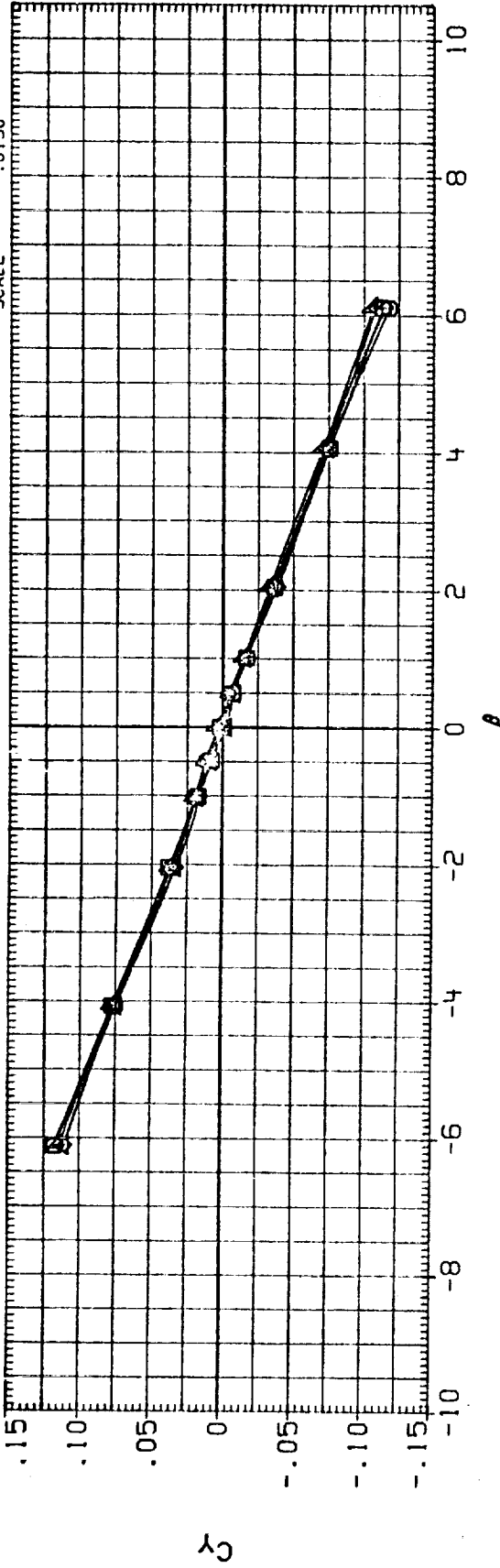


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .60

DATA SET SYMBOL
 (RUK068) ○
 (RUK071) □
 (RUK074) ◇
 (RUK079) △

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70- BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ALPHA FN/L ELEVON AT/LRON
 .000 4.500 .000
 5.000 4.500 .000
 10.000 4.500 .000
 15.000 4.500 .000
 20.000 4.500 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

SCALE .0150

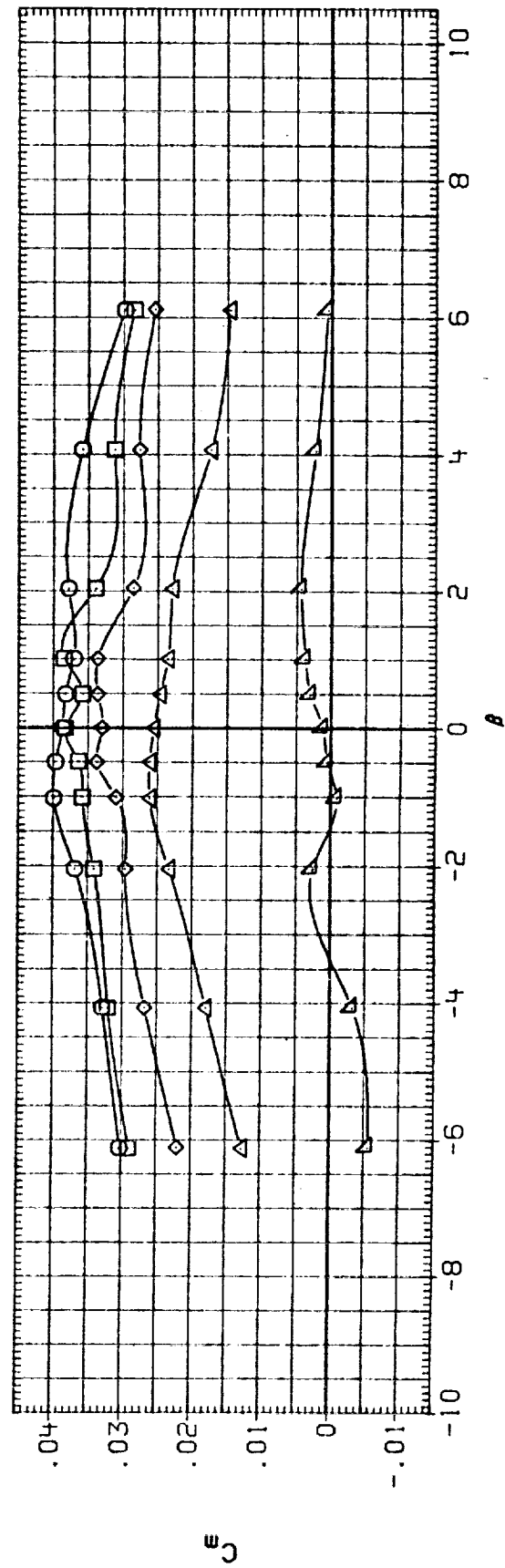
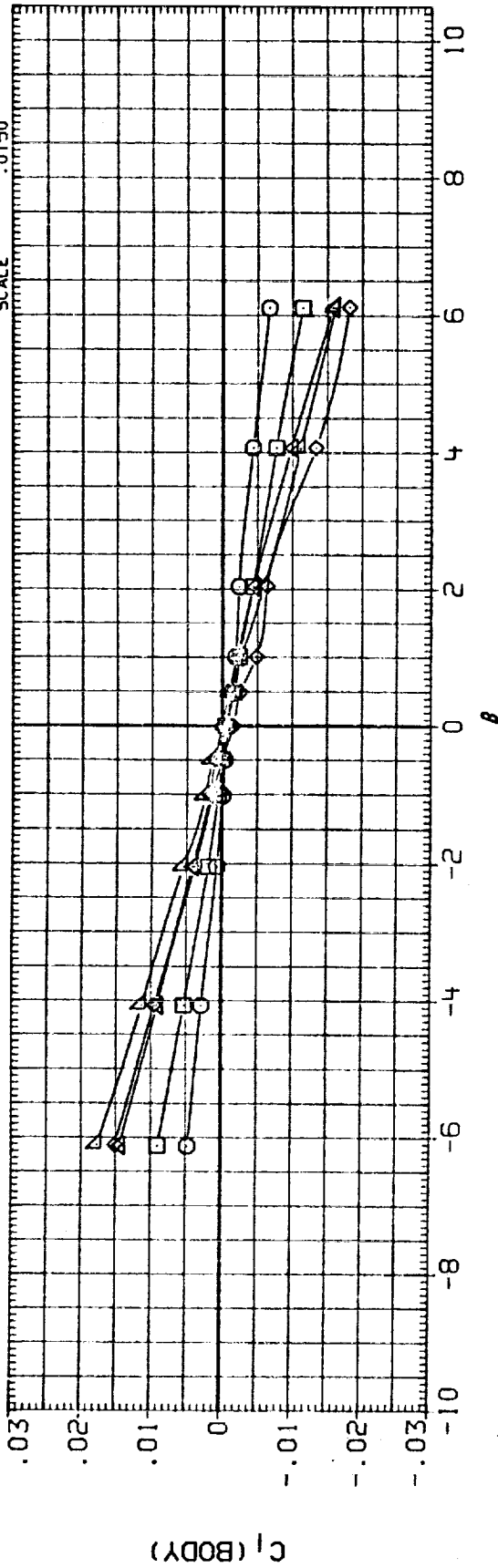


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| (RUK068) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK074) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK079) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | .000 | .000 | YMRP 1076.7000 IN. YO |
| (RUK084) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | .000 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

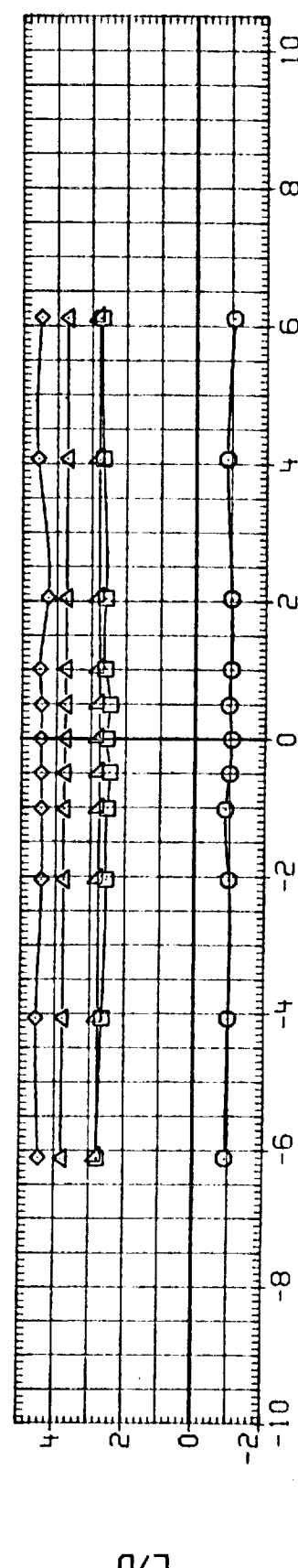
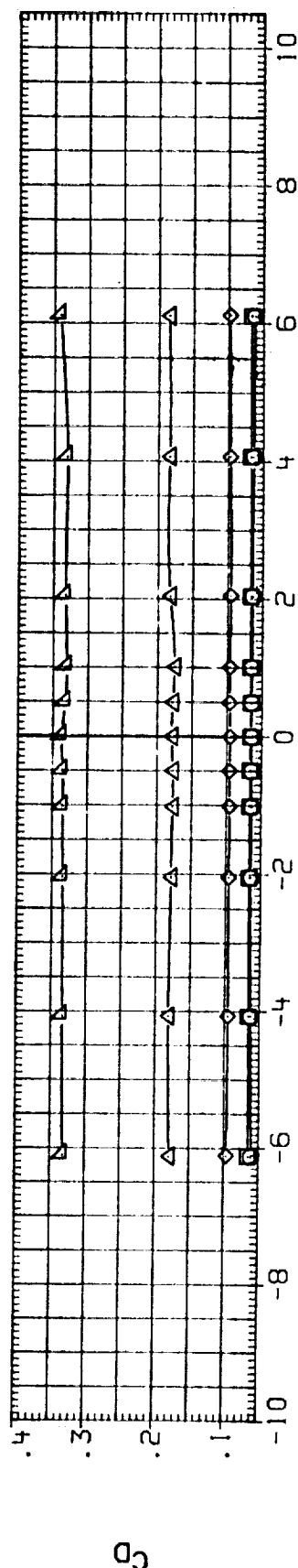
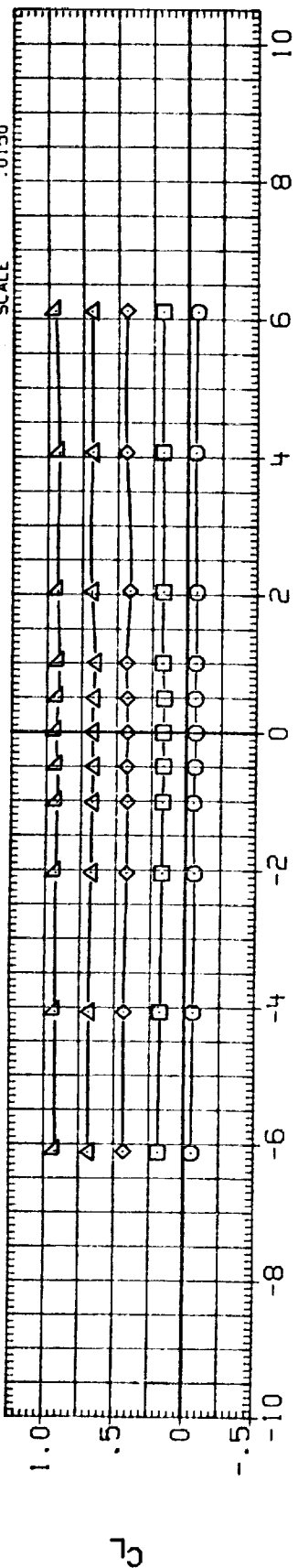


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .60

DATA SET SYMBOL
 (CUK068) ○
 (CUK071) ◇
 (CUK074) △
 (CUK079) □
 (CUK084) ▲

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ALPHA RN/L ELEVON AIRLON
 .000 .000 .000
 5.000 .000 .000
 10.000 .000 .000
 15.000 .000 .000
 20.000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO

SCALE .0150

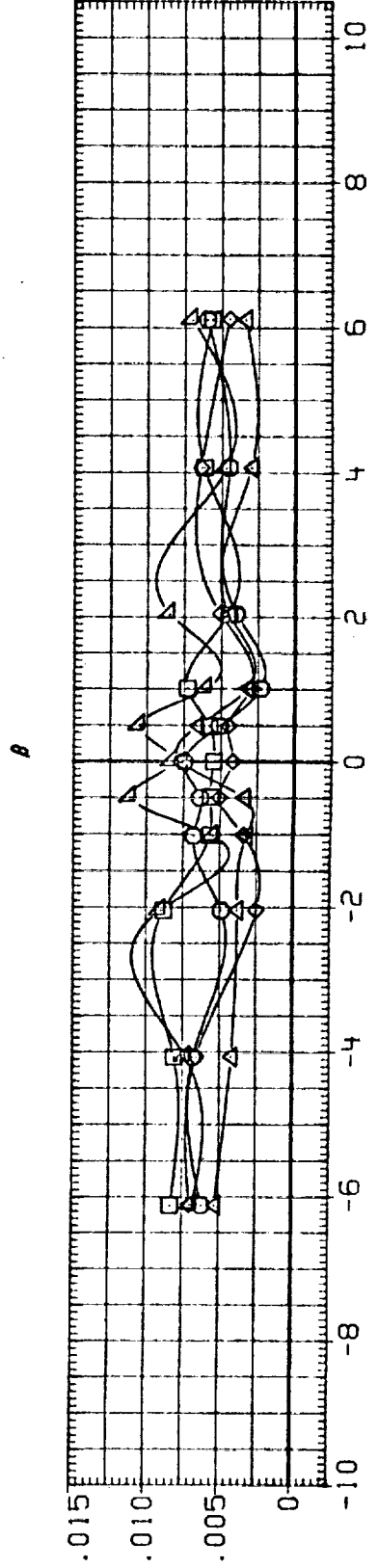
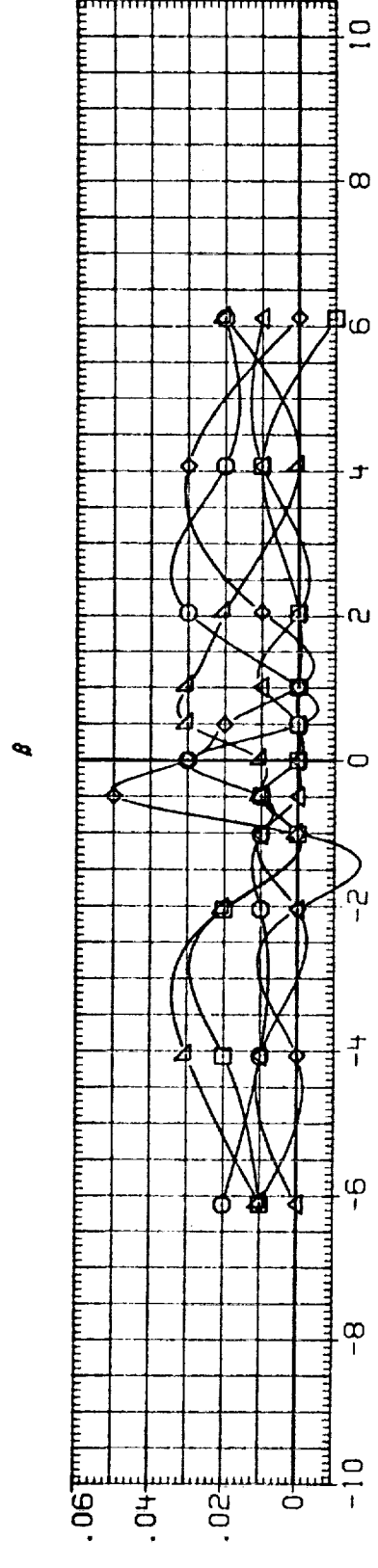
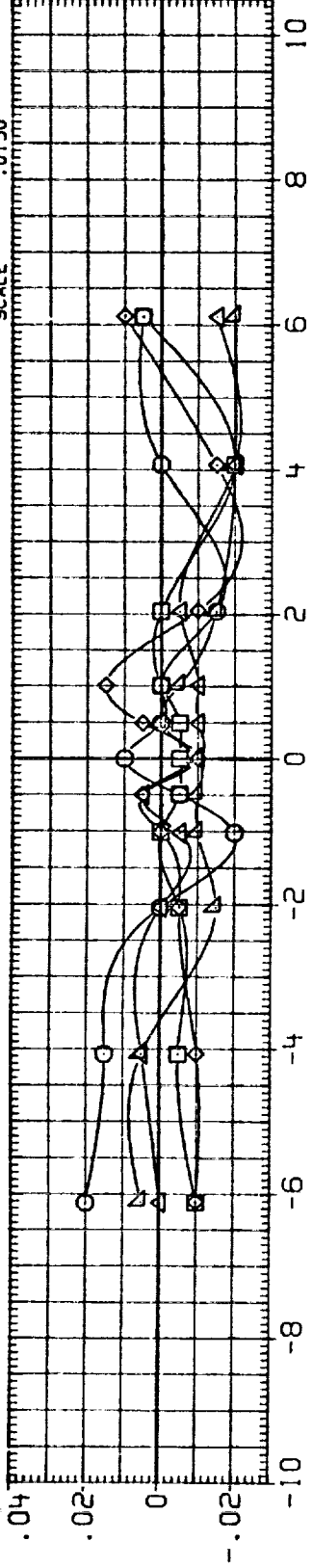


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|-----------------------|
| (RUK068) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK071) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK074) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK079) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | .000 | .000 | XMRP 1076.7000 IN. YO |
| (RUK084) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | .000 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

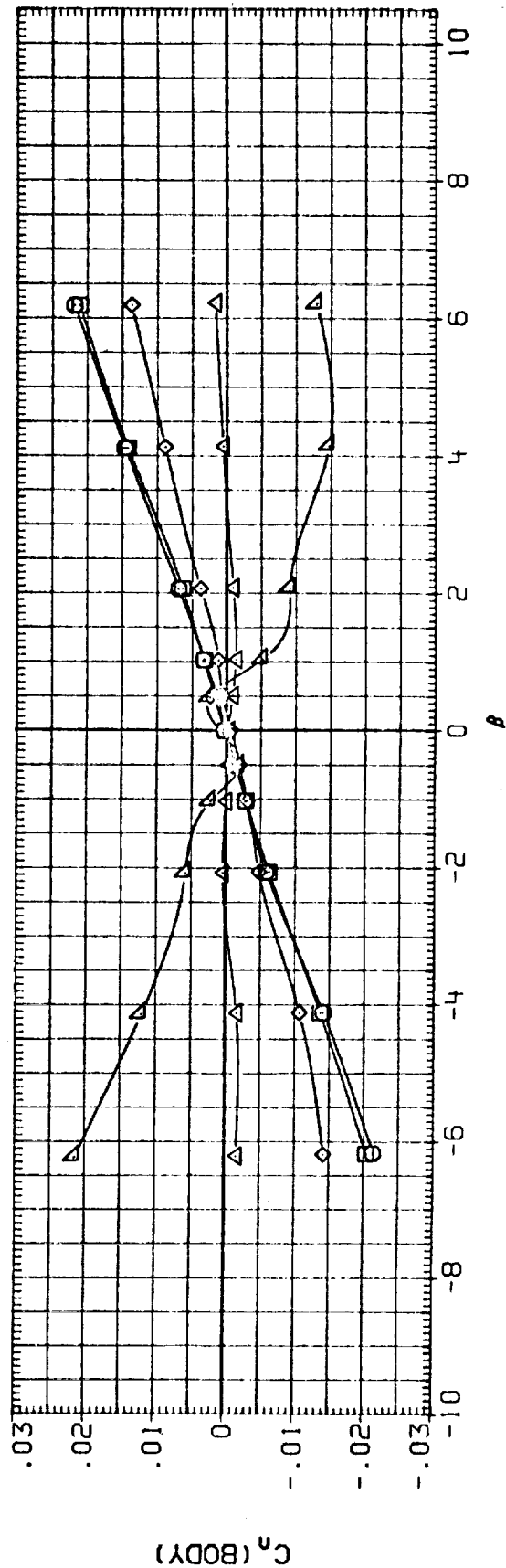
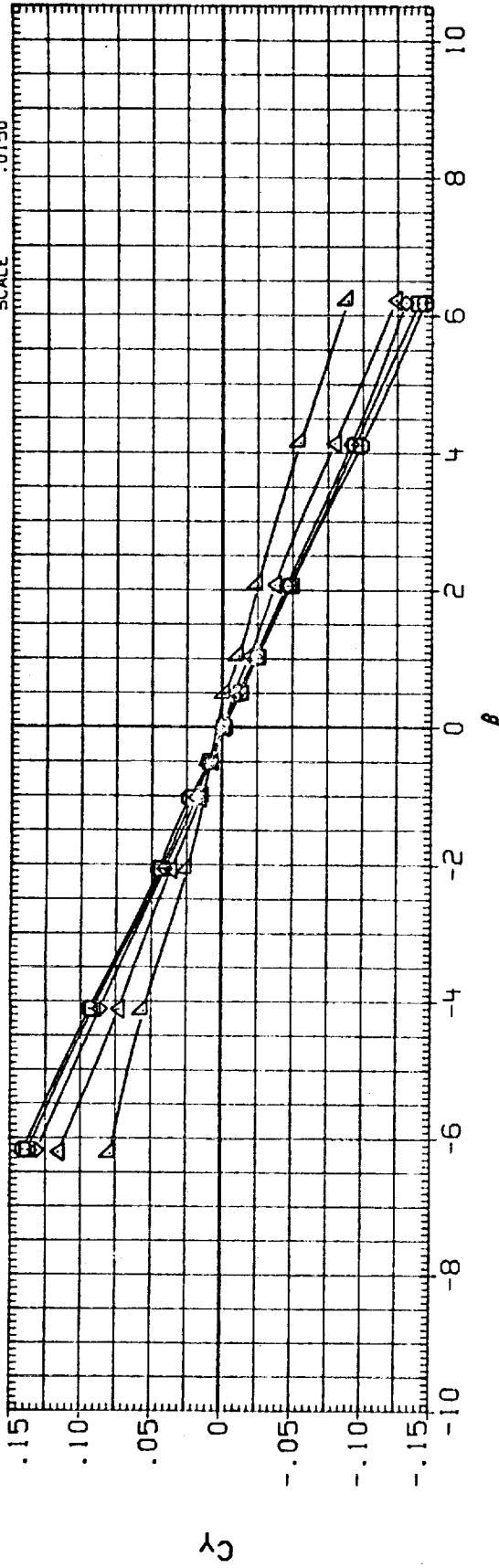


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .90

| | | | | | | |
|-----------------|--|--------|-------|--------|---------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILERON | REFERENCE INFORMATION |
| (RUK068) | LAT0 BASELINE NO. 3 (GAPS SCALED, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SO. FT. |
| (RUK071) | LAT0 BASELINE NO. 3 (GAPS SCALED, GRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK074) | LAT0 BASELINE NO. 3 (GAPS SCALED, GRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK079) | LAT0 BASELINE NO. 3 (GAPS SCALED, GRIT ON) | 15.000 | 4.500 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK084) | LAT0 BASELINE NO. 3 (GAPS SCALED, GRIT ON) | 20.000 | 4.500 | .000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

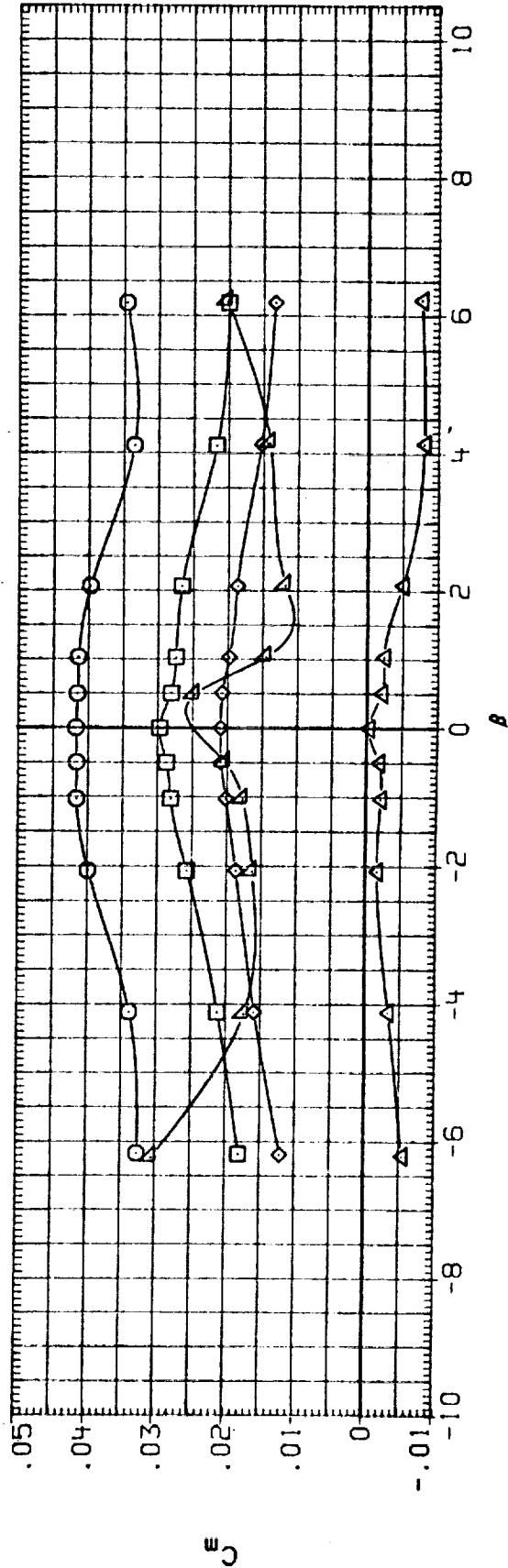
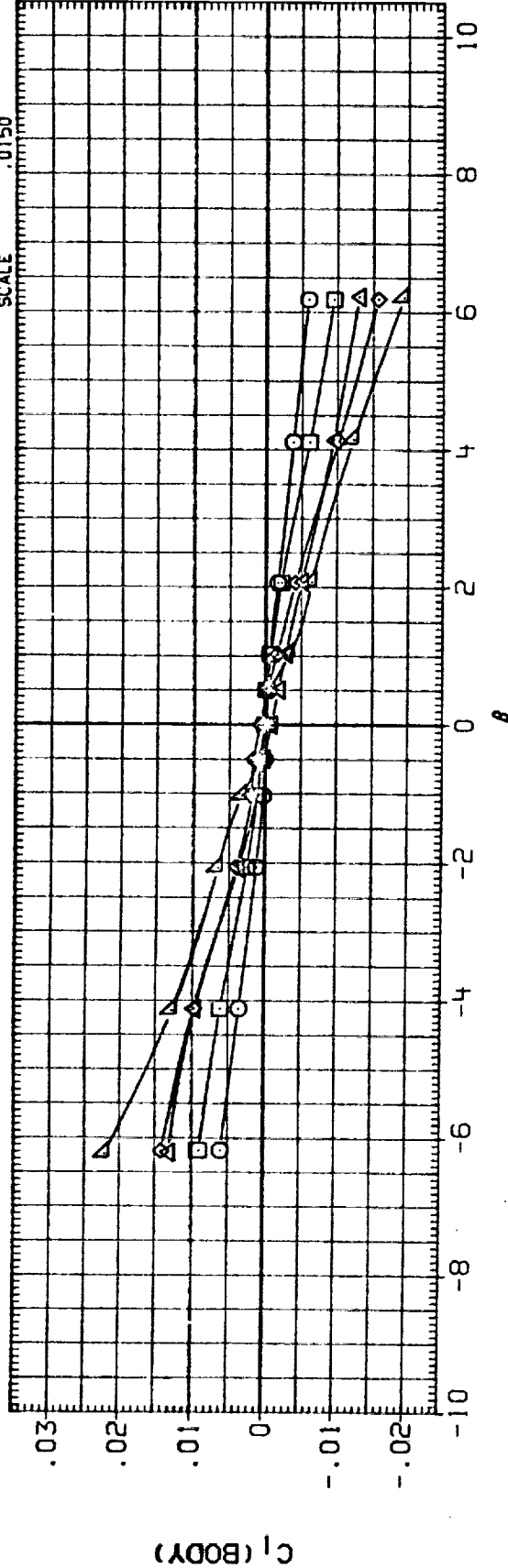


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .90

| | | | | | | | |
|------------------------|--|--------------|-------------|---------------|---------------|------------------------------|-------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION | |
| (RUK068) | LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | .000 | 4.500 | .000 | .000 | SREF | 2690.0000 SQ. FT. |
| (RUK071) | LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF | 474.8000 INCHES |
| (RUK074) | LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF | 936.6800 INCHES |
| (RUK079) | LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 15.000 | 4.500 | .000 | .000 | XHRP | 1076.7000 IN. XO |
| (RUK084) | LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 20.000 | 4.500 | .000 | .000 | YHRP | .0000 IN. YO |
| | | | | | | ZHRP | 375.0000 IN. ZO |
| | | | | | | SCALE | .0150 |

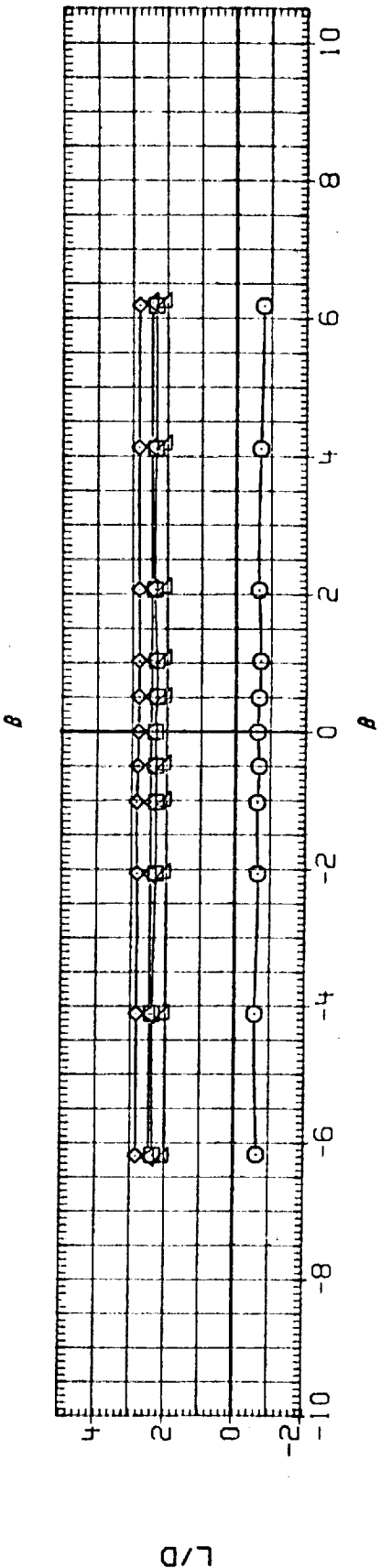
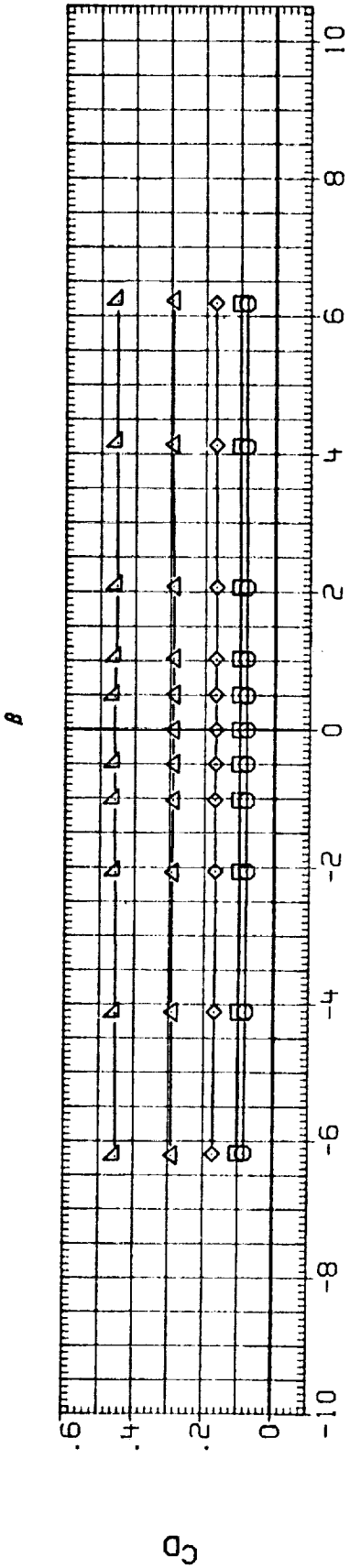
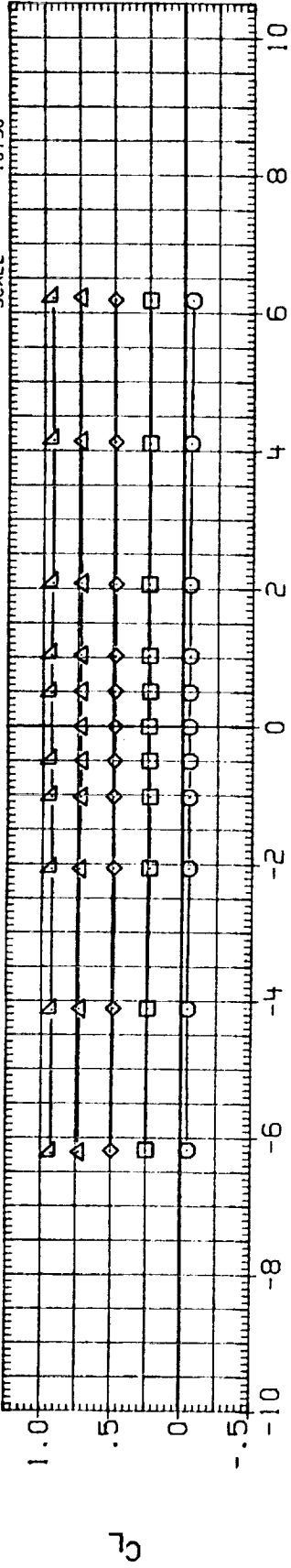


FIG. 32 YAW POLARS, ELEVON = 0

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/VL | ELEVON | AILRON | REFERENCE INFORMATION |
| (CUK0681) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (CUK0711) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK074) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (CUK079) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (CUK084) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | .000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

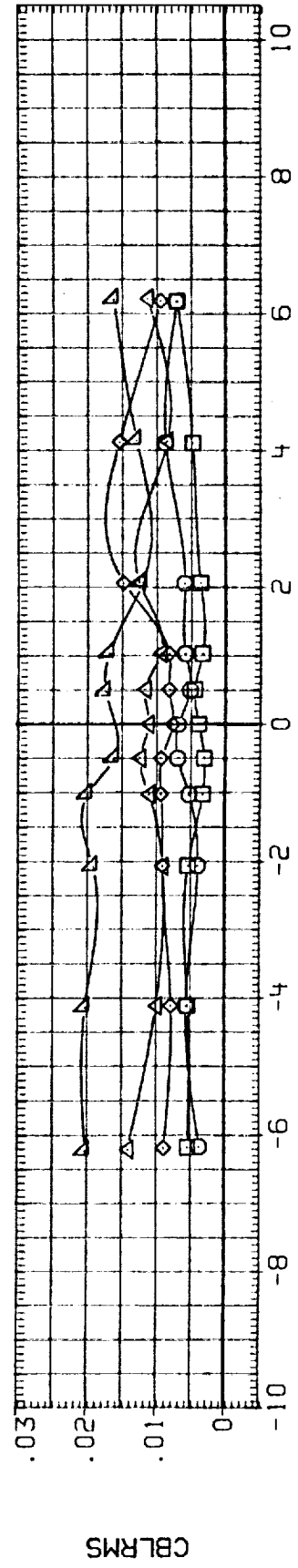
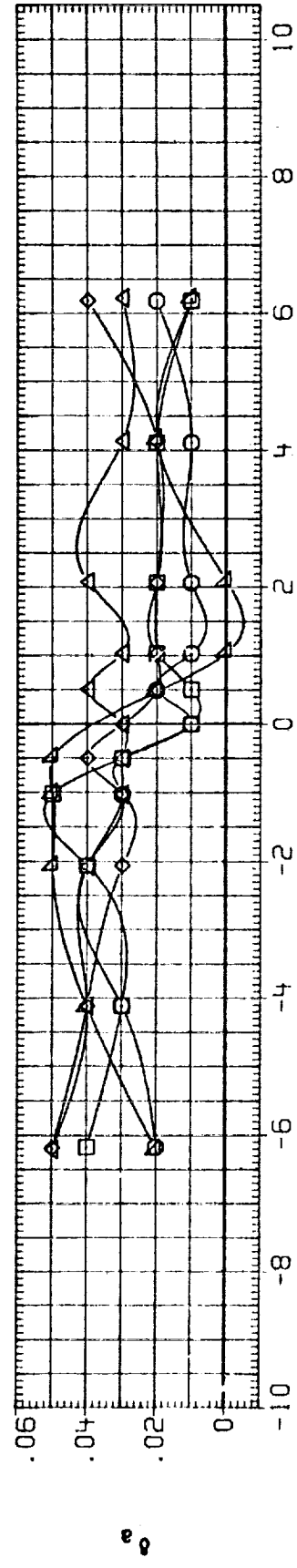
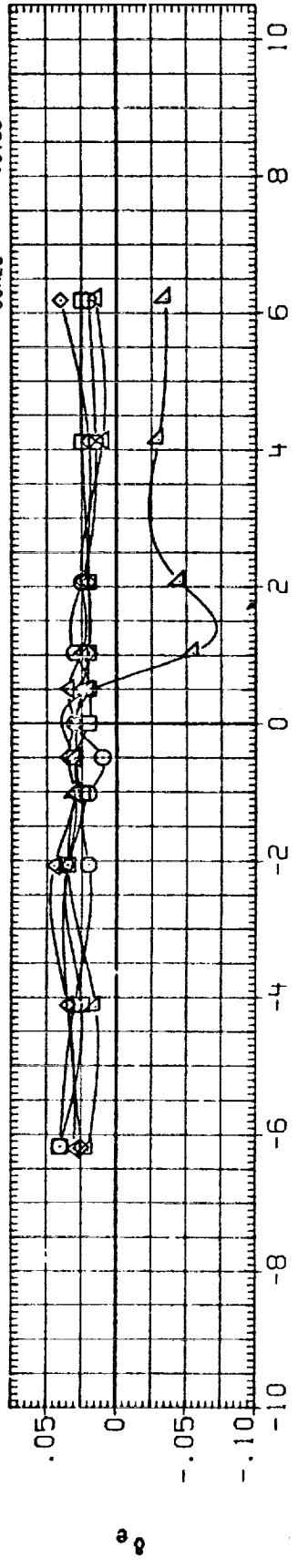


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | A1LRON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|------------------------|
| (RUK068) | □ | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SO. FT. |
| (RUK071) | ◇ | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK074) | ◇ | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK079) | △ | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 15.000 | 4.500 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK084) | △ | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 20.000 | 4.500 | .000 | .000 | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |

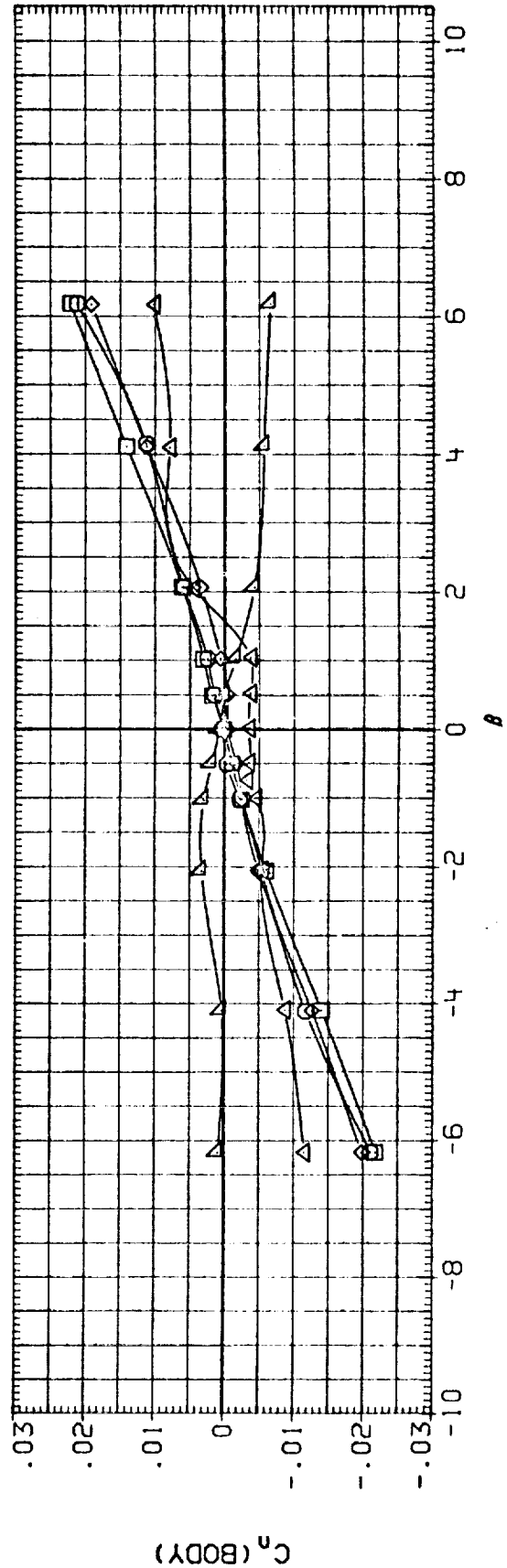
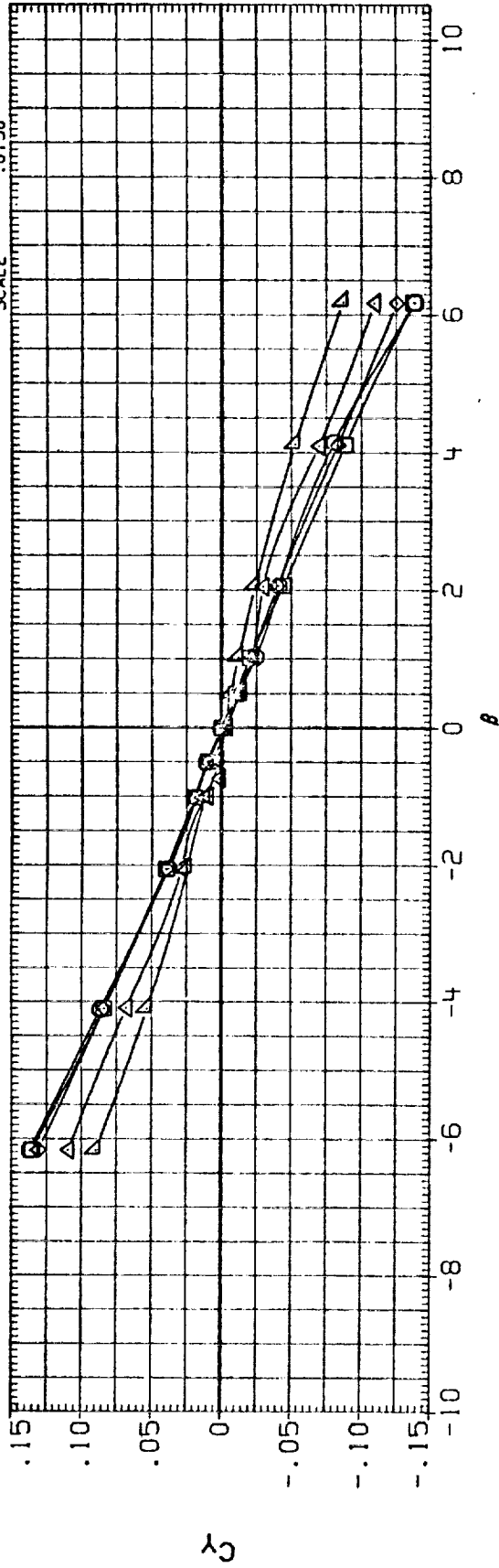


FIG. 32 YAW POLARS, ELEVON = 0

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|-----------------------|
| (RUK068) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK071) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK074) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK079) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK084) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | .000 | .000 | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |

SCALE .0150

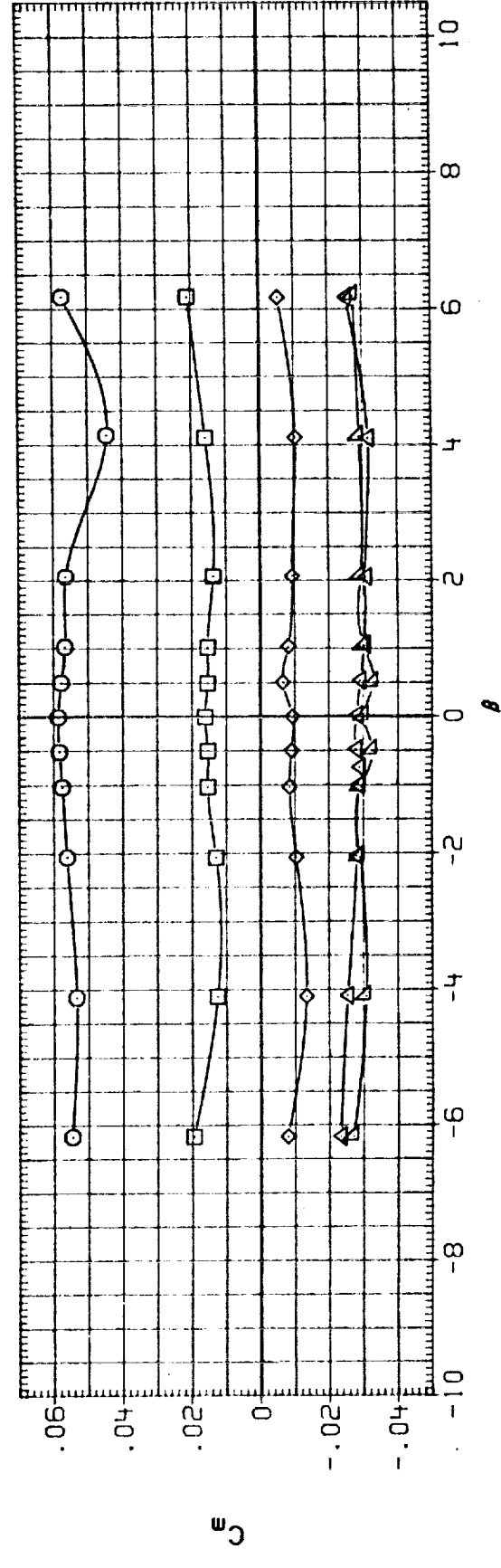
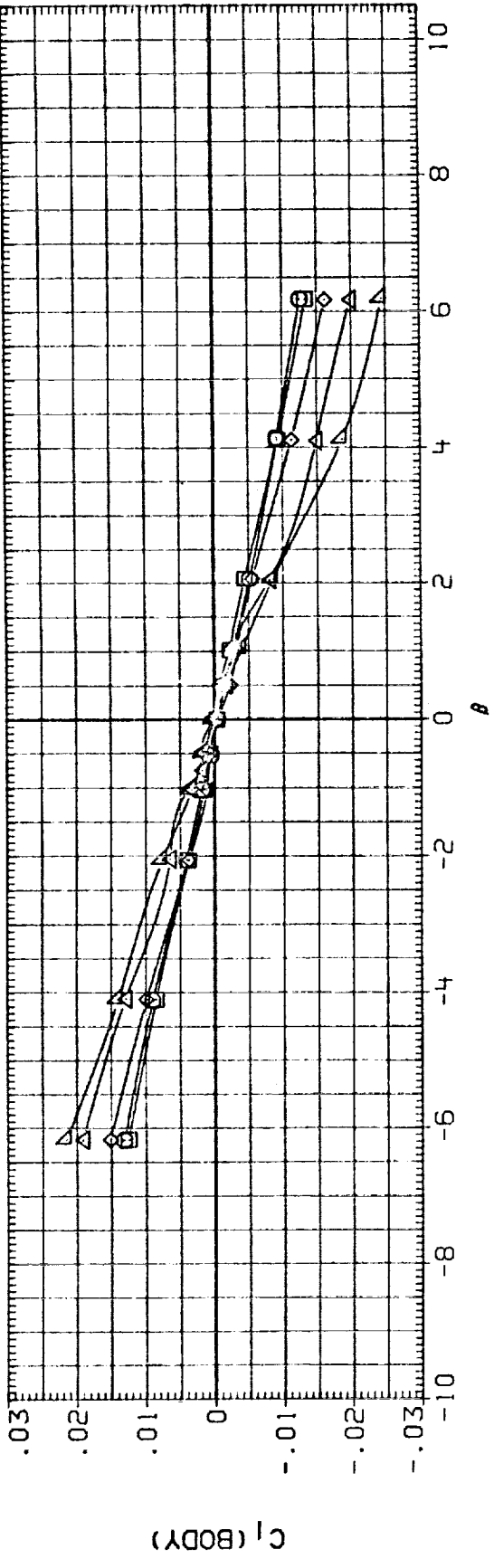


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .95

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILERON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|--------|---------|-----------------------|
| (RUK068) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK071) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK074) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK079) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK084) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | .000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

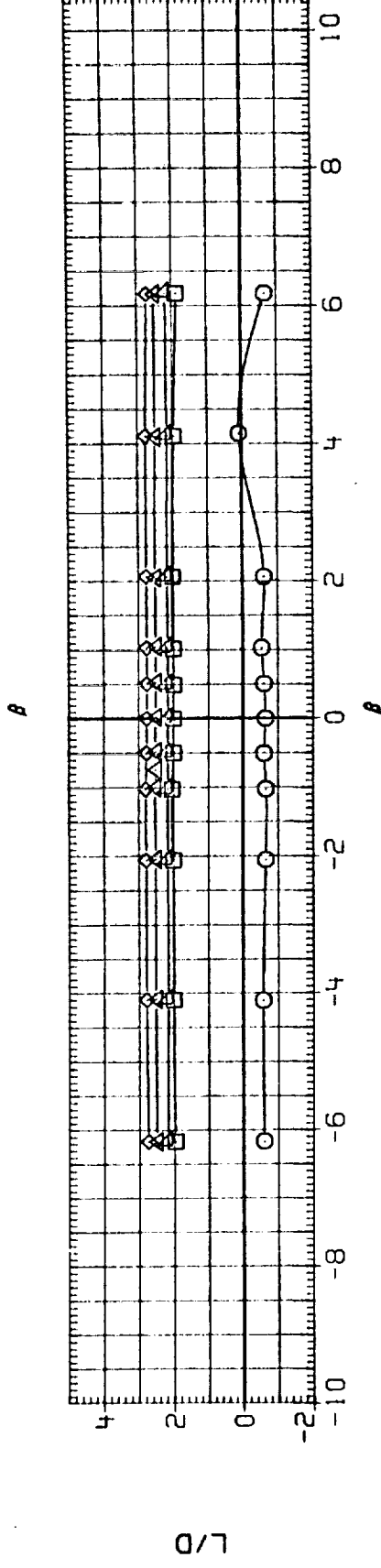
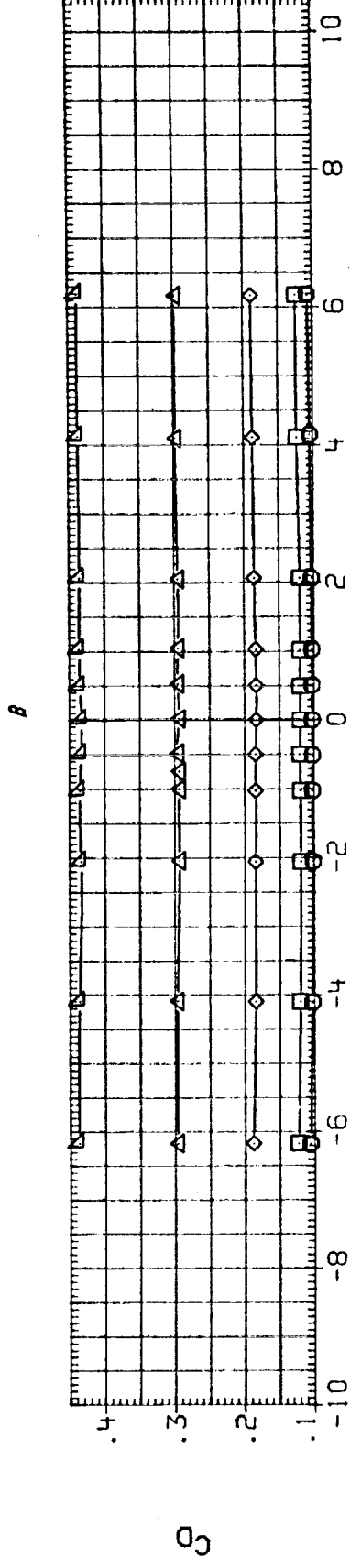
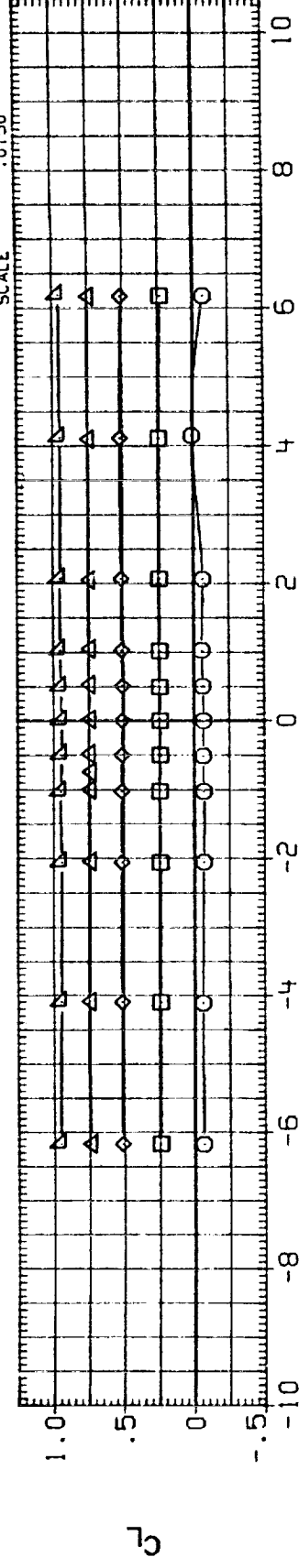


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .95

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (CUK068) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SO. FT. |
| (CUK071) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK074) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (CUK079) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | .000 | .000 | YMRP 1076.7000 IN. X0 |
| (CUK084) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | .000 | .000 | ZMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

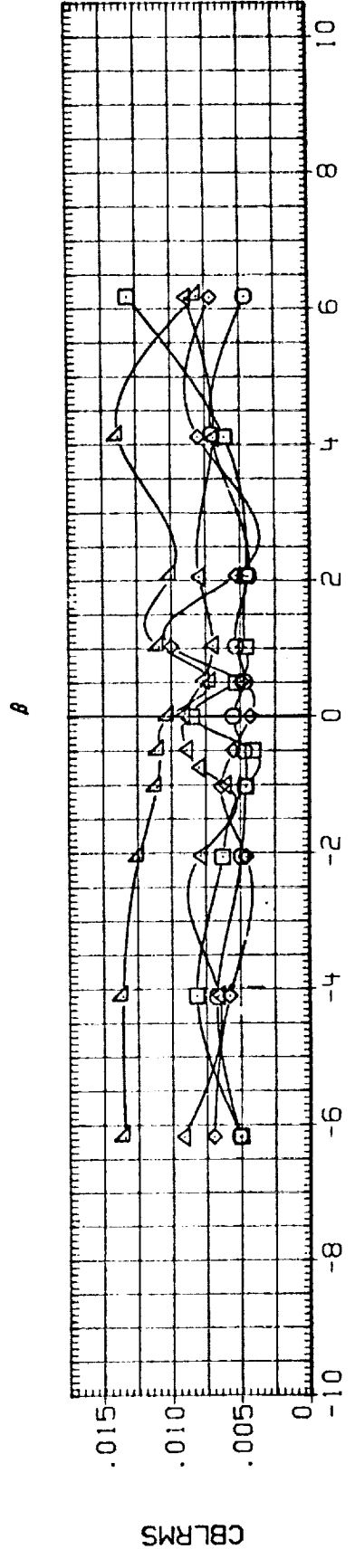
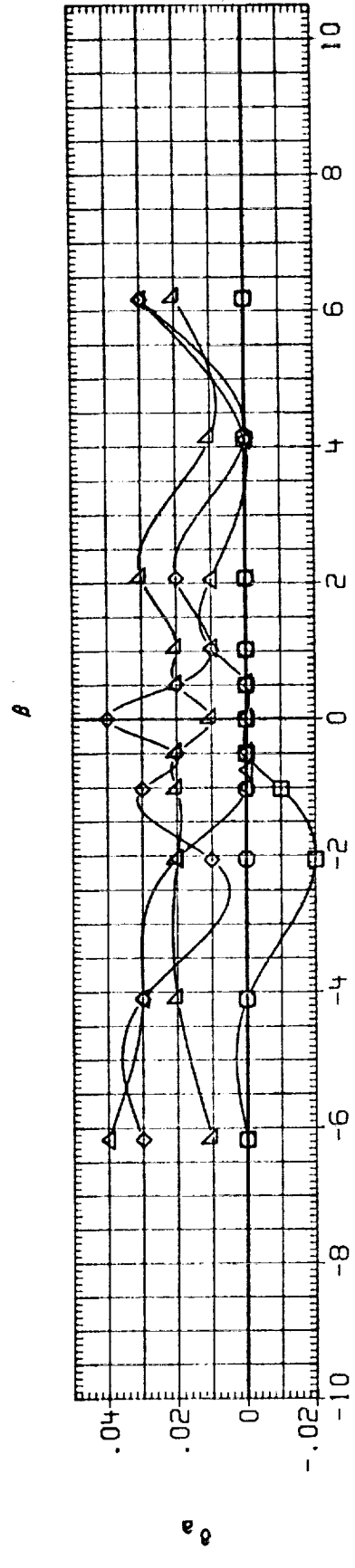
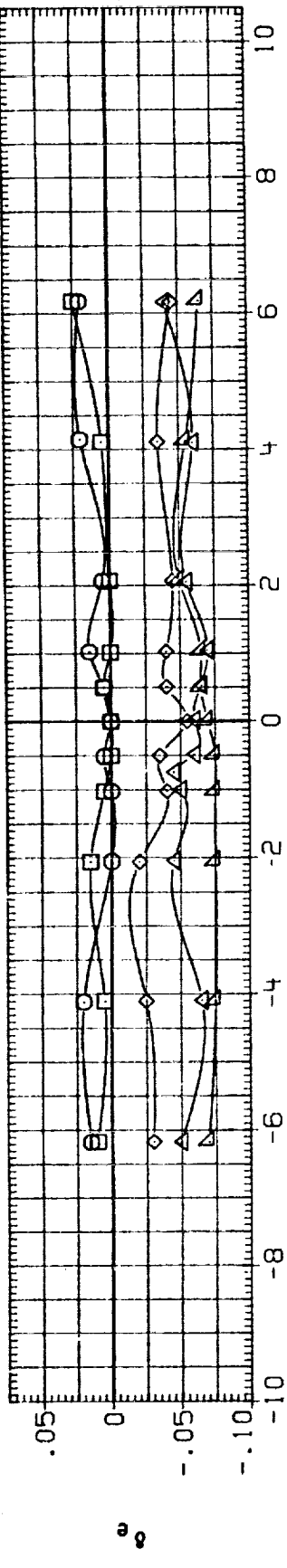


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .95

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|-----------------------|
| (RUK068) | □ | DATA NOT AVAILABLE | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK071) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK074) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK079) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK084) | ▽ | DATA NOT AVAILABLE | 20.000 | 4.500 | .000 | .000 | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

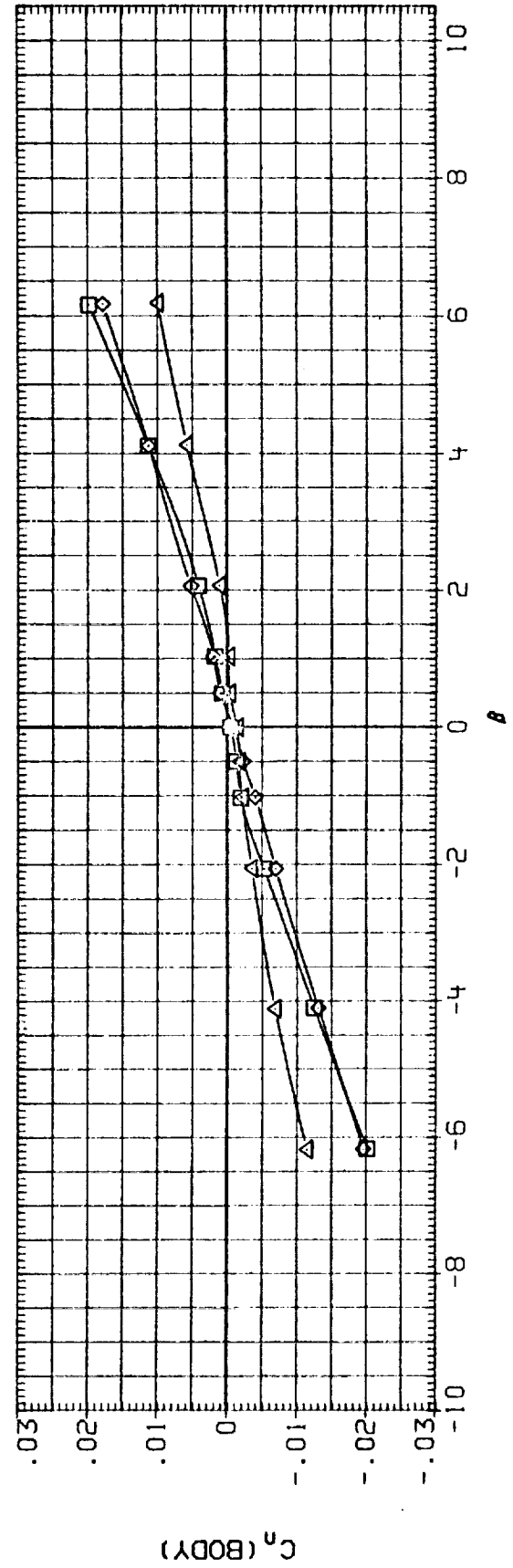
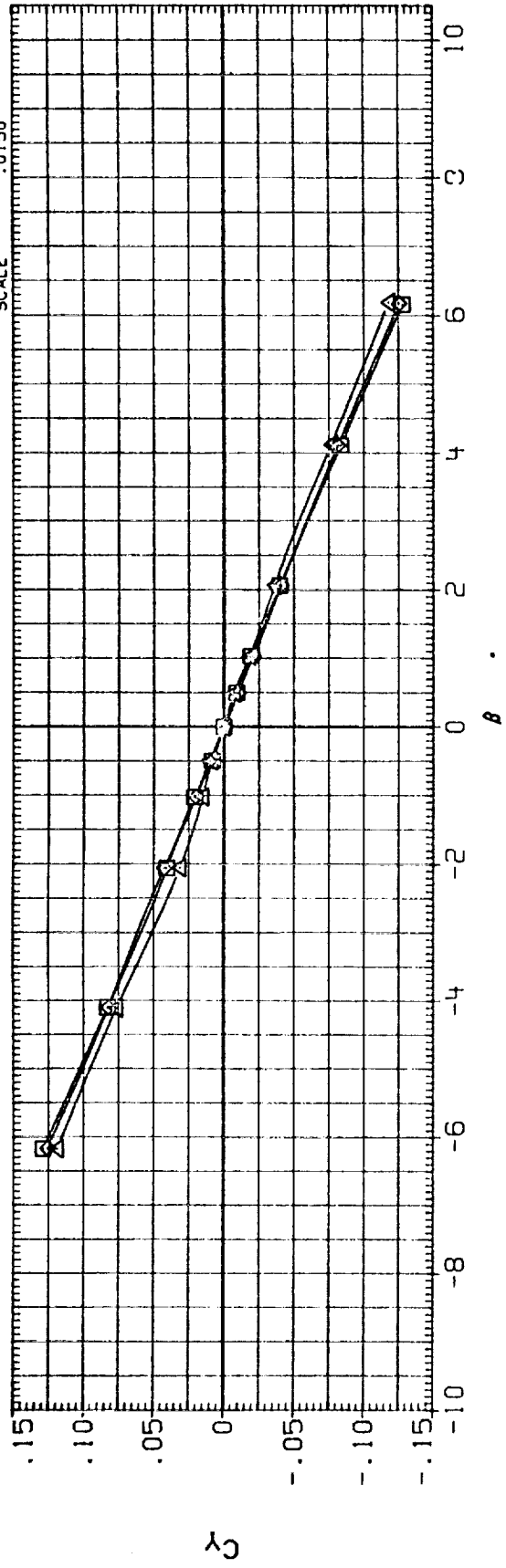


FIG. 32 YAW POLARS, ELEVON = 0

| | | | | | | |
|-----------------|---|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | A/IRON | REFERENCE INFORMATION |
| (RUK068) | DATA NOT AVAILABLE | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK071) | L70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK074) | L70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK079) | L70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 15.000 | 4.500 | .000 | .000 | XHRP 1076.7000 IN. X0 |
| (RUK084) | DATA NOT AVAILABLE | 20.000 | 4.500 | .000 | .000 | YHRP .0000 IN. Y0 |
| | | | | | | ZHRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

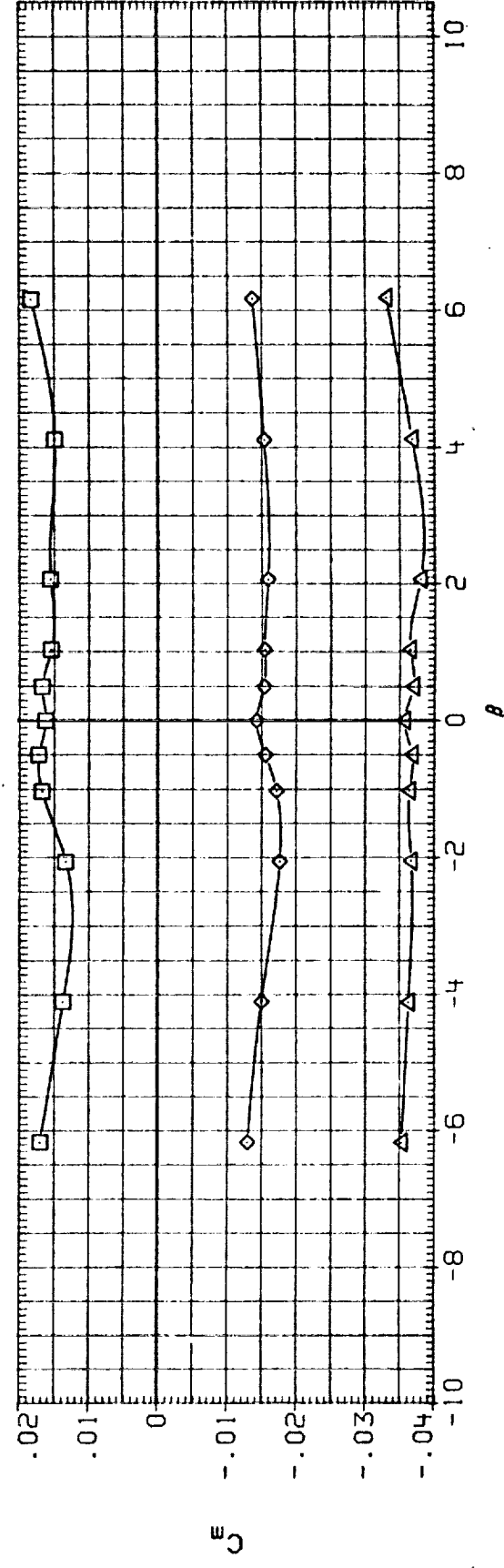
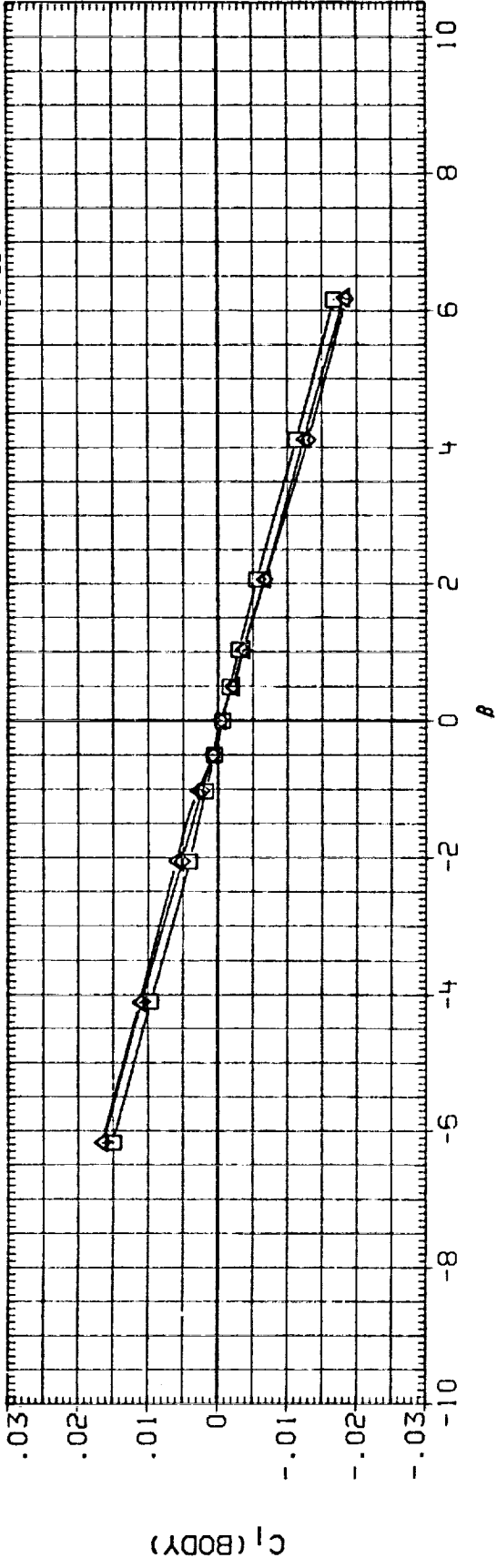


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .98

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| (RUK068) | DATA NOT AVAILABLE | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK074) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK079) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK084) | DATA NOT AVAILABLE | 20.000 | 4.500 | .000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

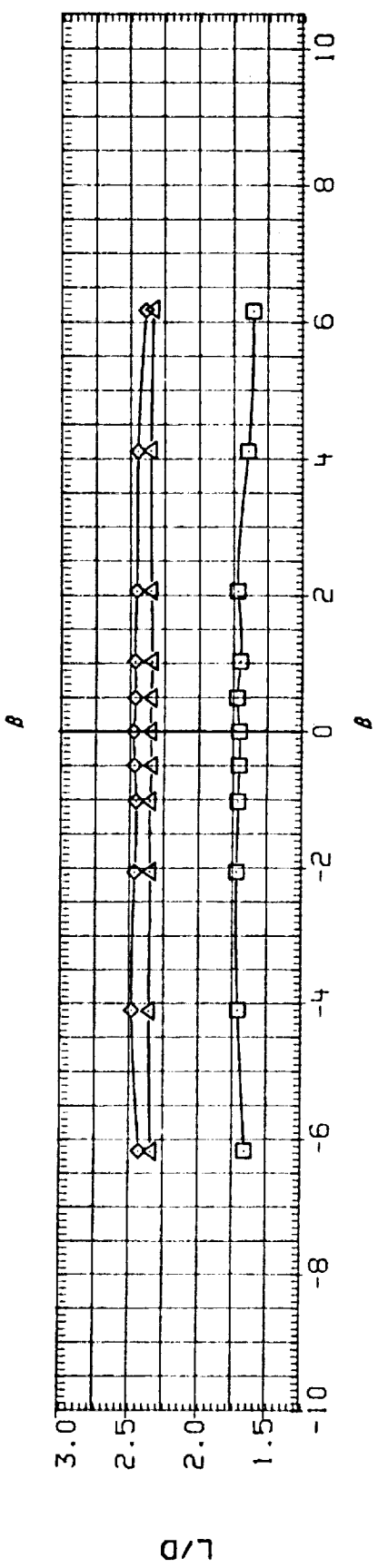
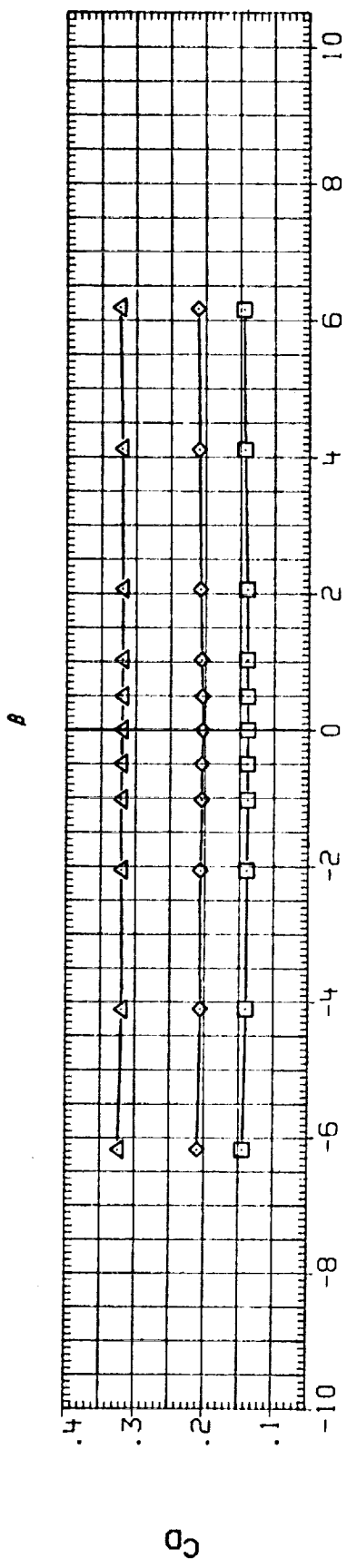
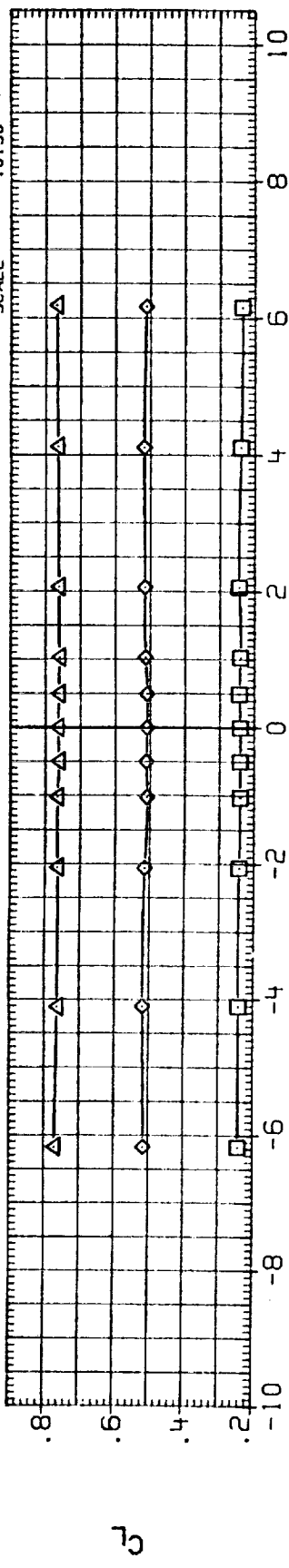


FIG. 32 YAW POLARS, ELEVON = 0

(A)MACH = .98

| | | | | | | |
|-----------------|--|--------|-------|--------|---------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILIRON | REFERENCE INFORMATION |
| (CUK068) | DATA NOT AVAILABLE | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (CUK071) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK074) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 986.6800 INCHES |
| (CUK079) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (CUK084) | DATA NOT AVAILABLE | 20.000 | 4.500 | .000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

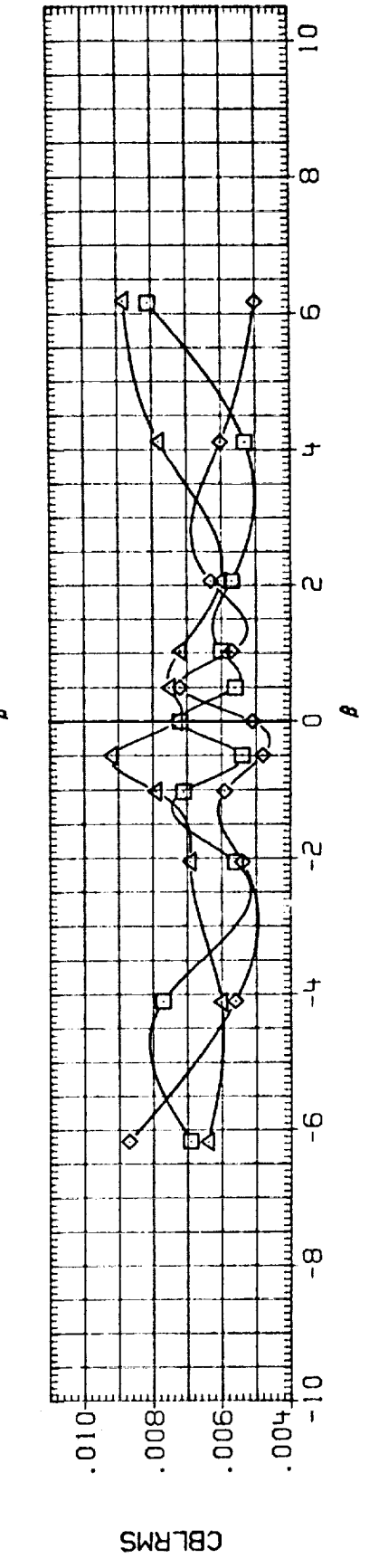
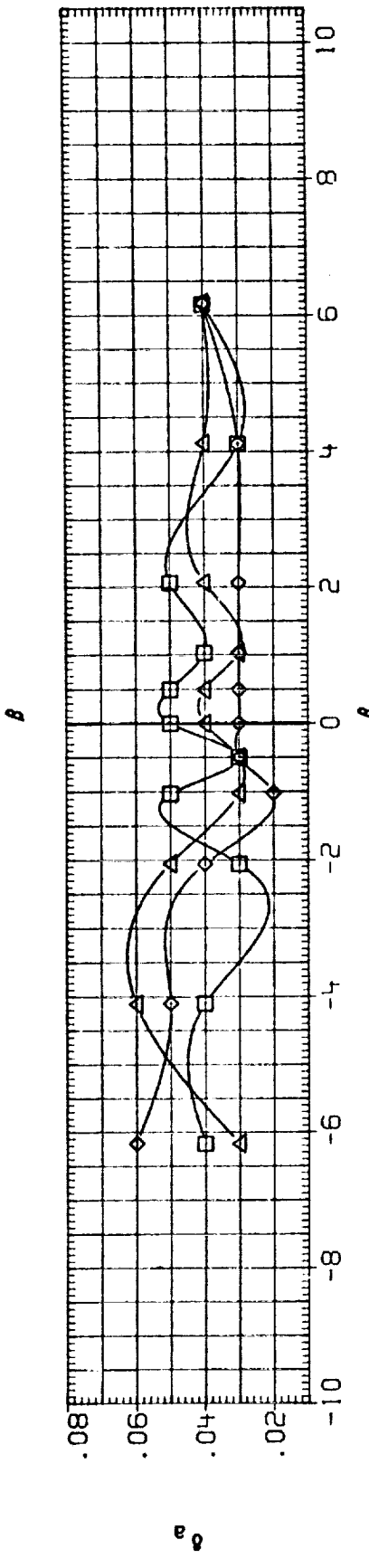
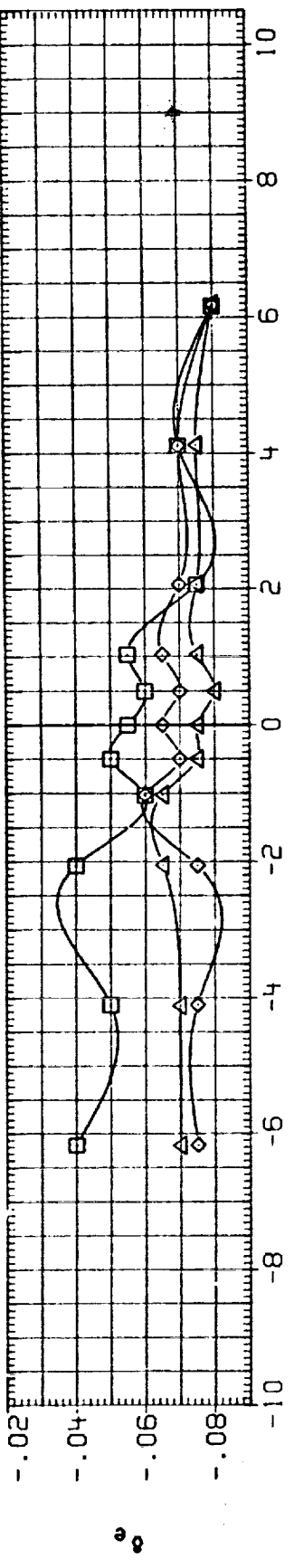


FIG. 32 YAW POLARS, ELEVON = 0

(A)MACH = .98

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|-----------------------|
| (RUK068) | □ | DATA NOT AVAILABLE | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK071) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK074) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK079) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK084) | △ | DATA NOT AVAILABLE | 20.000 | 4.500 | .000 | .000 | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |

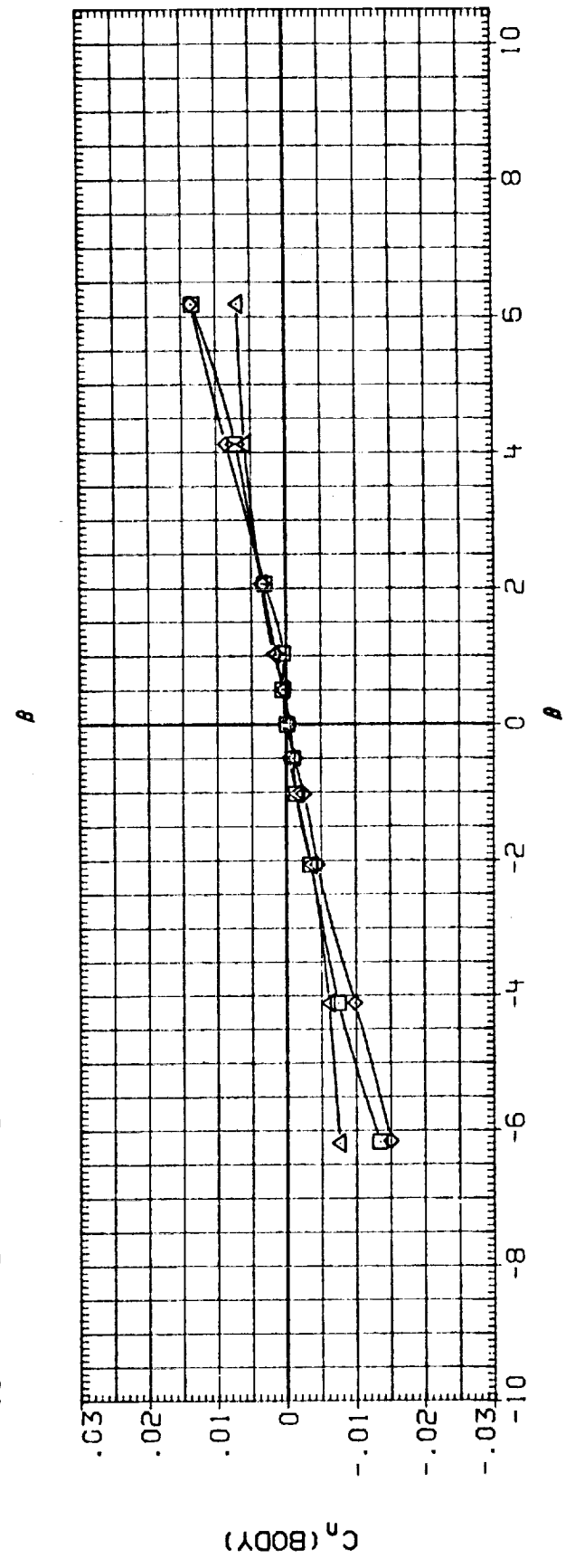
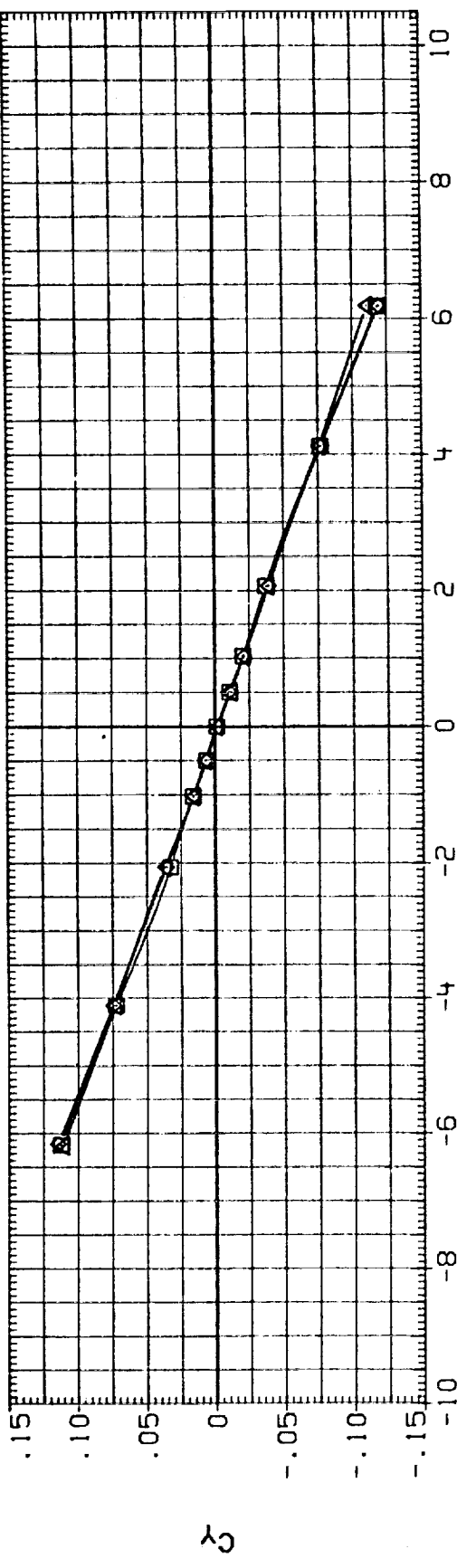


FIG. 32 YAW POLARS, ELEVON = 0

| | | | | | | |
|-----------------|--|---------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (RUK068) | DATA NOT AVAILABLE | .000 | 4.500 | .000 | .000 | SREF 2690.0700 50.FT. |
| (RUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK074) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 936.6600 INCHES |
| (RUK079) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 15.000 | 4.500 | .000 | .000 | XHRP 1076.7000 IN. XO |
| (RUK084) | DATA NOT AVAILABLE | -20.000 | 4.500 | .000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

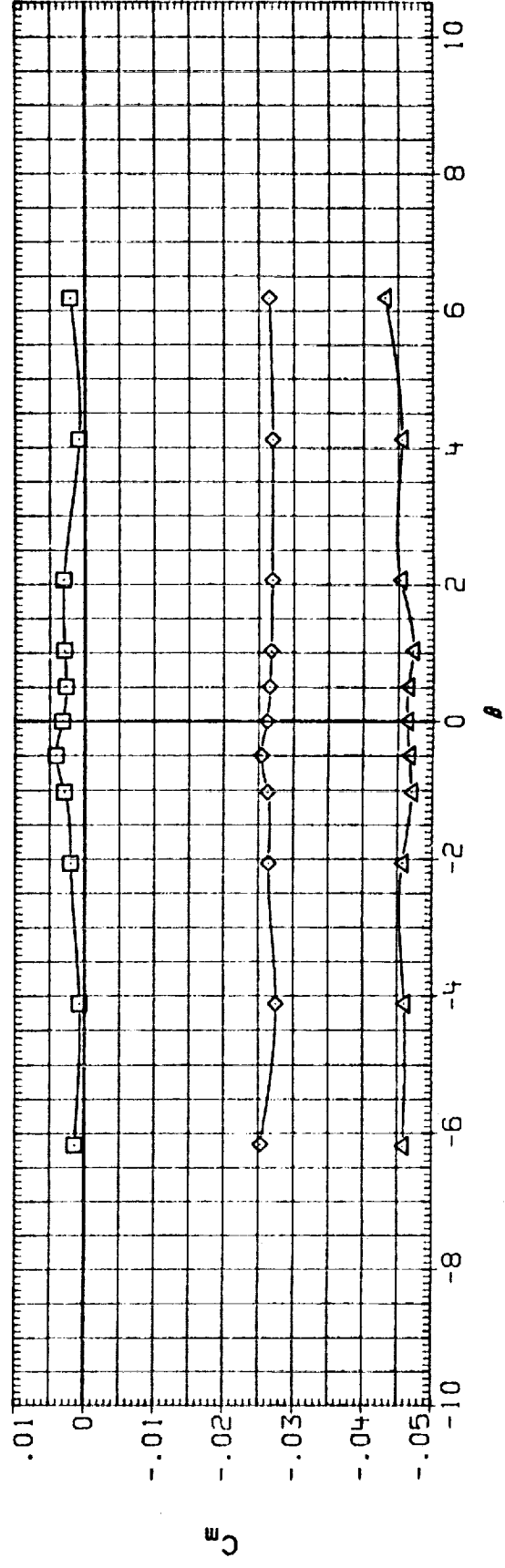
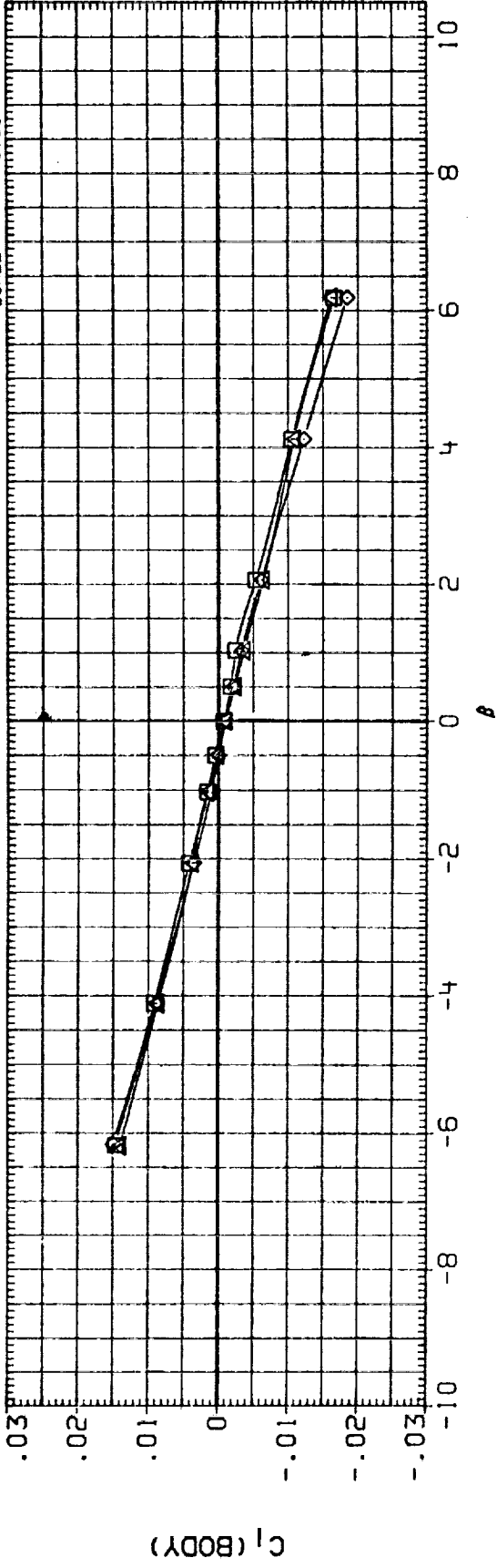


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = 1.05

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILTRON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|---------|-----------------------|
| (RUK068) | □ | DATA NOT AVAILABLE | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK071) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK074) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK079) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK084) | △ | DATA NOT AVAILABLE | 20.000 | 4.500 | .000 | .000 | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

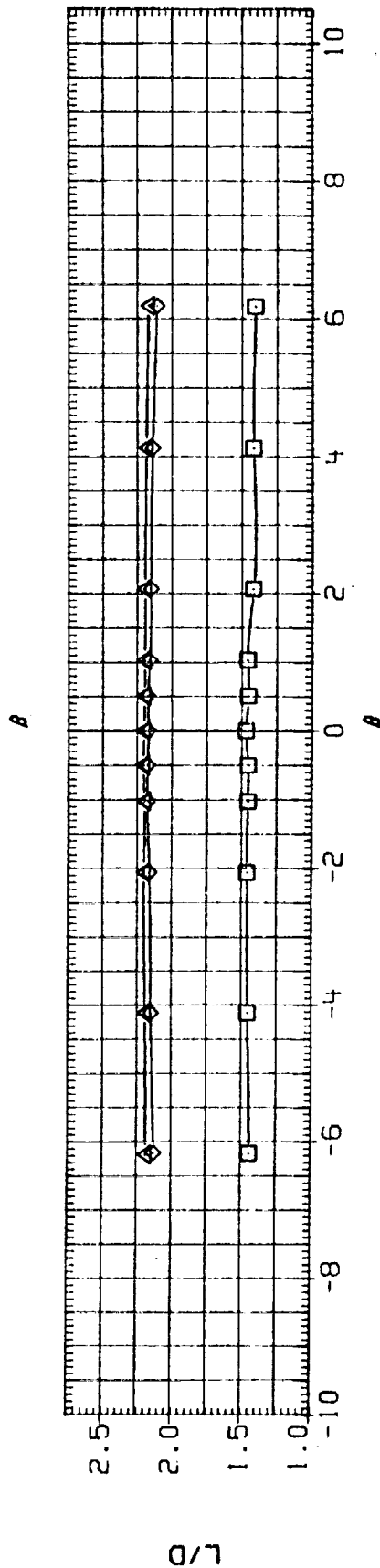
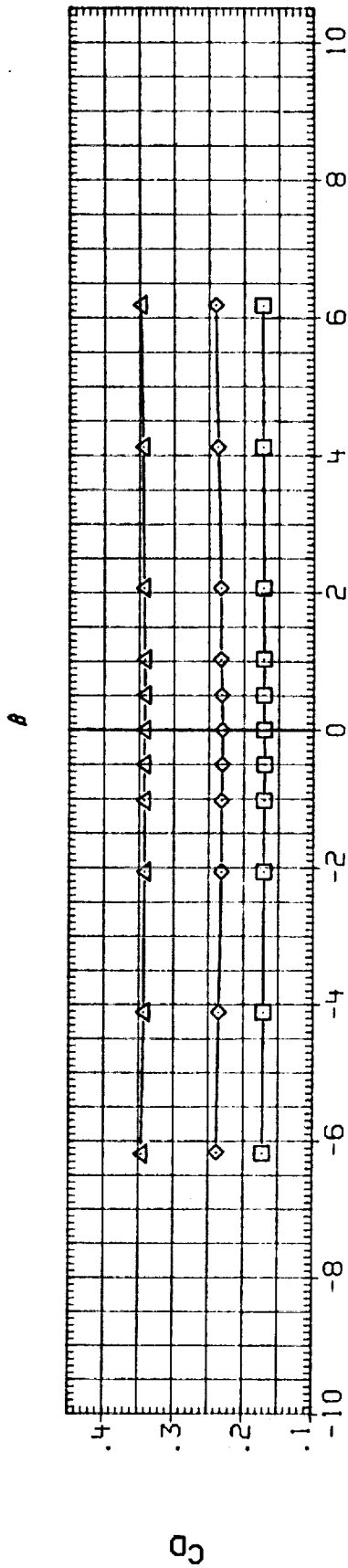
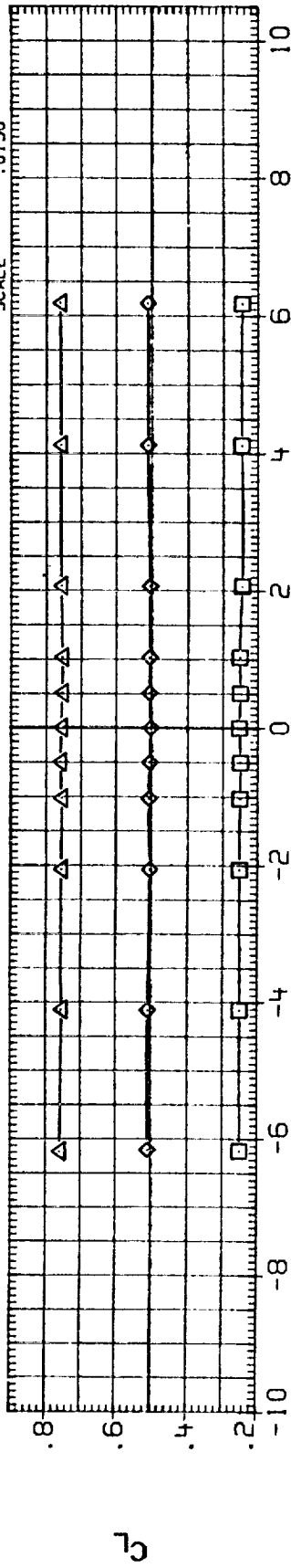


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = 1.05

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (CUK068) | DATA NOT AVAILABLE | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SO. FT. |
| (CUK071) | LAY0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK074) | LAY0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | .000 | .000 | BREF 936.6800 INCHES |
| (CUK079) | LAY0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (CUK084) | DATA NOT AVAILABLE | 20.000 | 4.500 | .000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

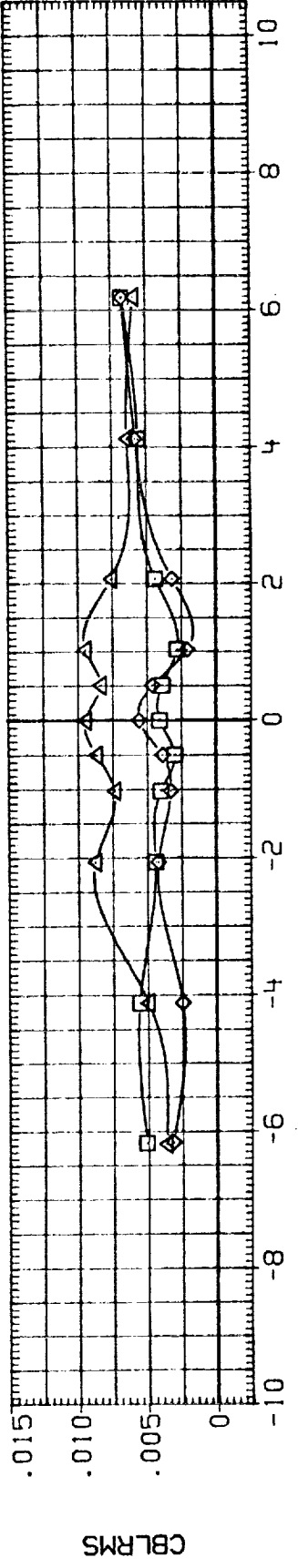
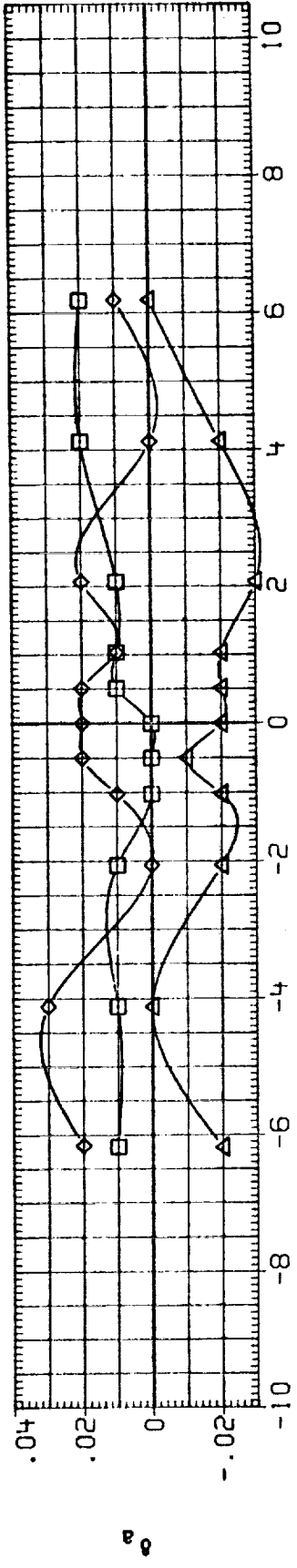
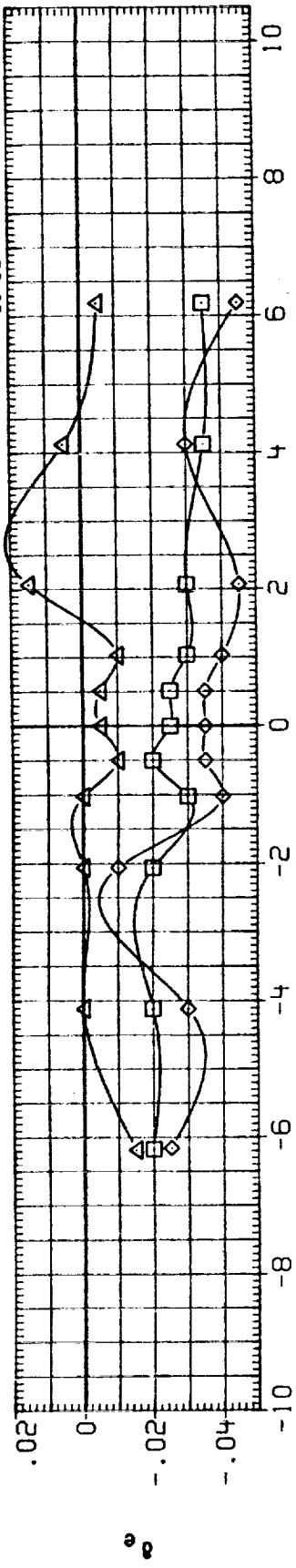


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = 1.05

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILERON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|--------|---------|-----------------------|
| (RUK069) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | .000 | 4.000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK072) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 5.000 | 4.000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK075) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 10.000 | 4.000 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK080) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 15.000 | 4.000 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK085) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 20.000 | 4.000 | .000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |

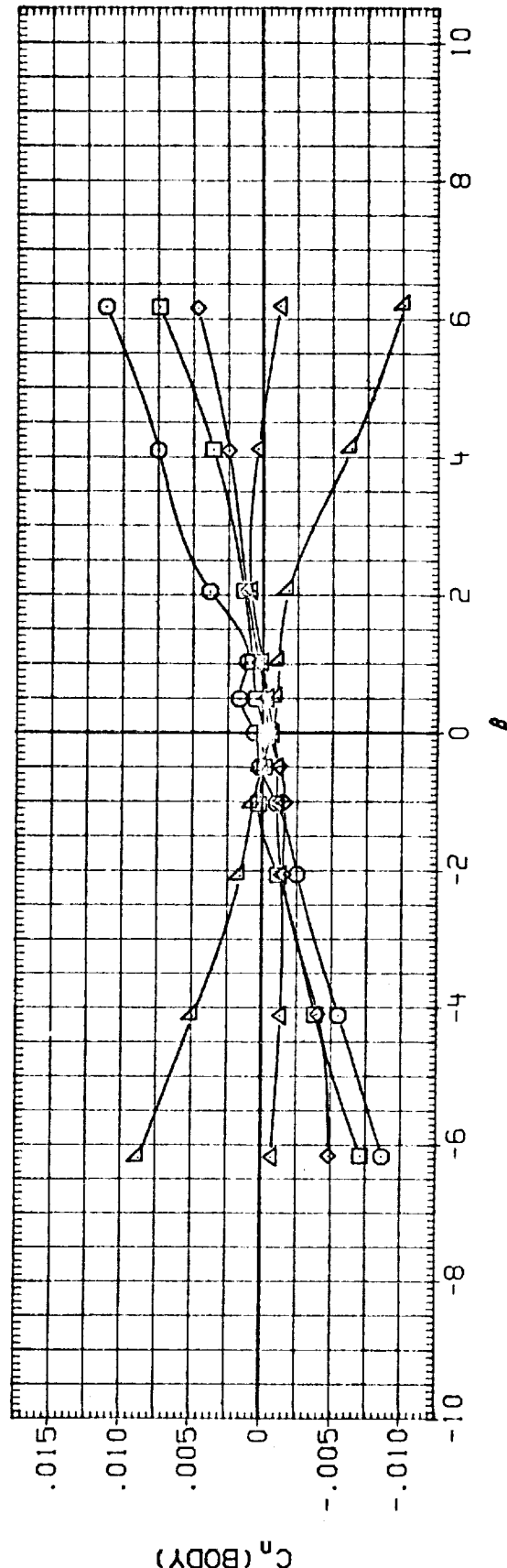
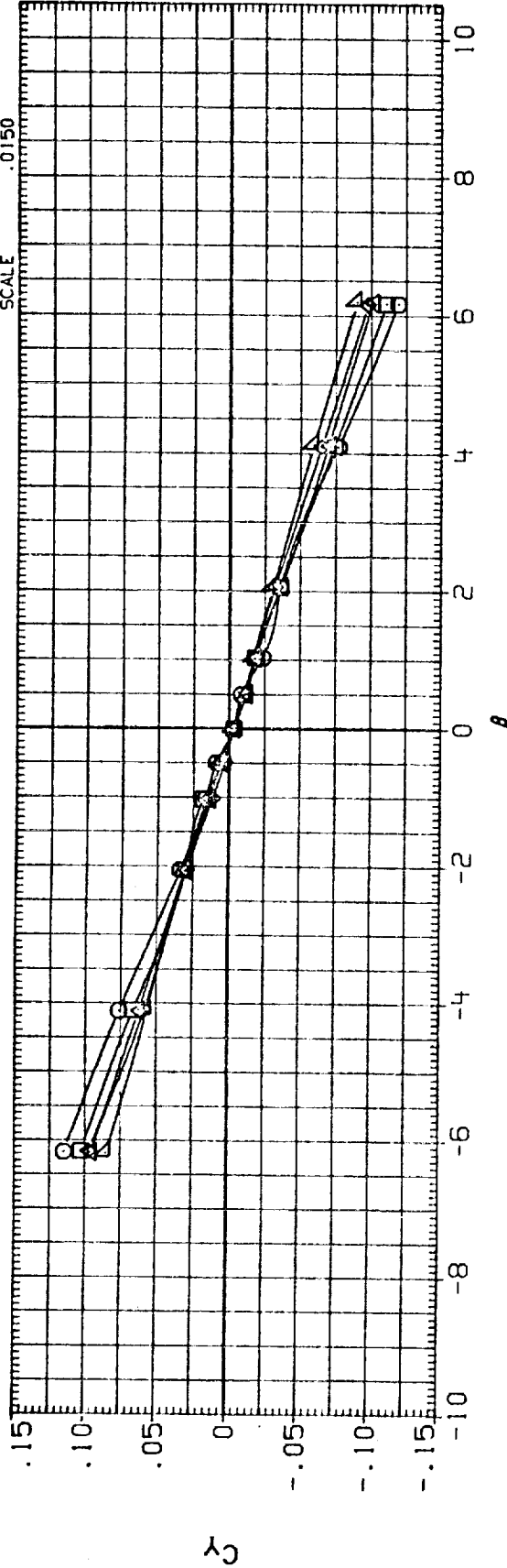


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = 1.20

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RM/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (RUK069) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.000 | .000 | .000 | SREF 2690.0000 SQ. FT. |
| (RUK072) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK075) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.000 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK080) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.000 | .000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK085) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.000 | .000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

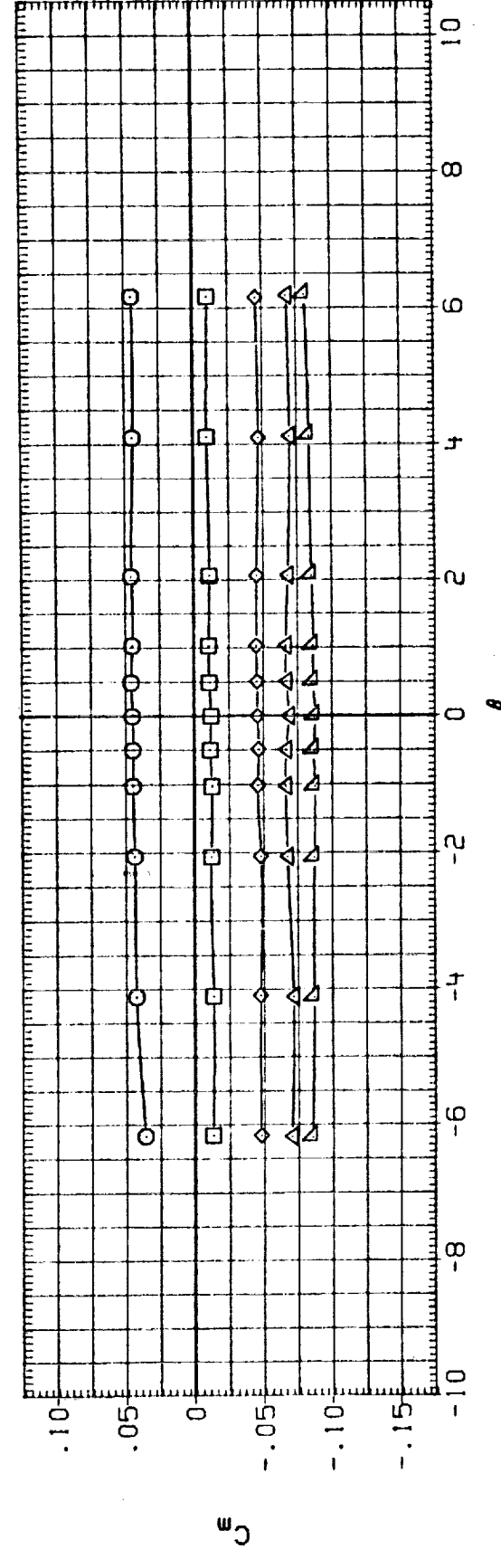
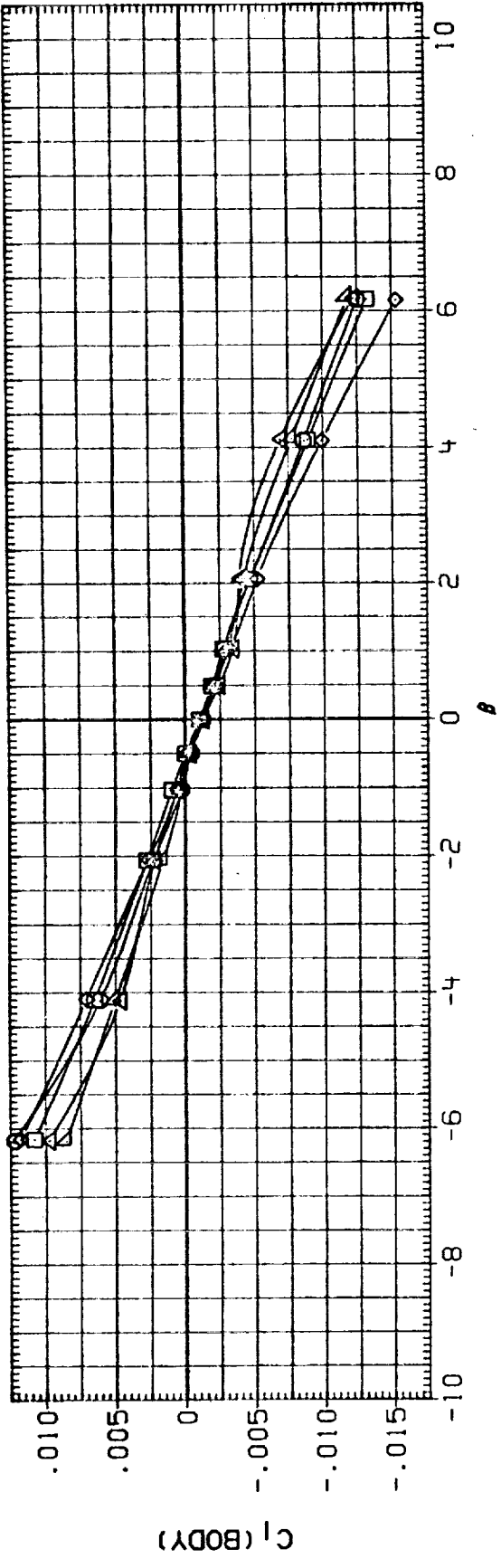


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = 1.20

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILERON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|---------|-----------------------|
| (RUK059) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | .000 | 4.000 | .000 | .000 | SREF 2690.0000 SG.FT. |
| (RUK072) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 5.000 | 4.000 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK075) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 10.000 | 4.000 | .000 | .000 | BREF 936.6800 INCHES |
| (RUK080) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 15.000 | 4.000 | .000 | .000 | YMPP 1076.7000 IN. X0 |
| (RUK085) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 20.000 | 4.000 | .000 | .000 | ZMRP 375.0000 IN. Z0 |

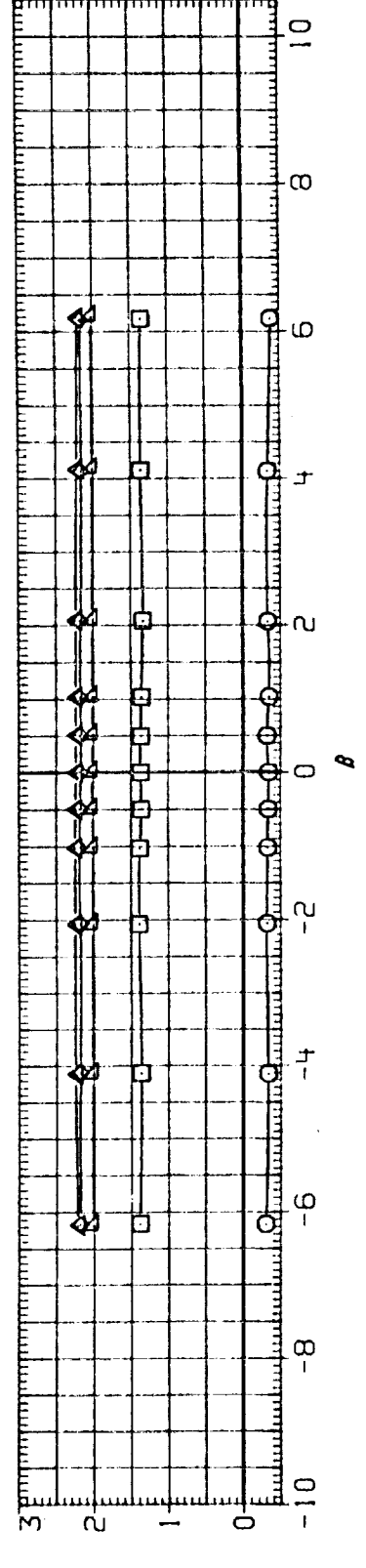
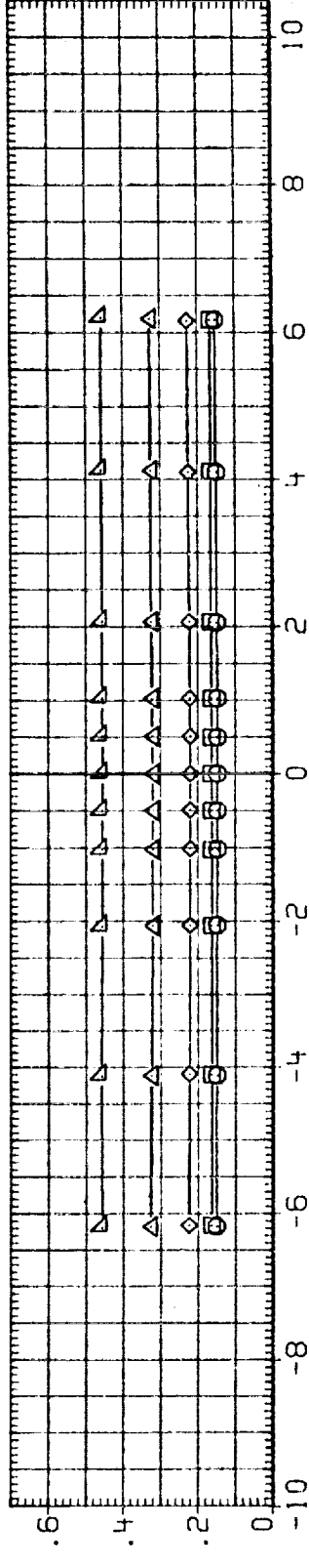
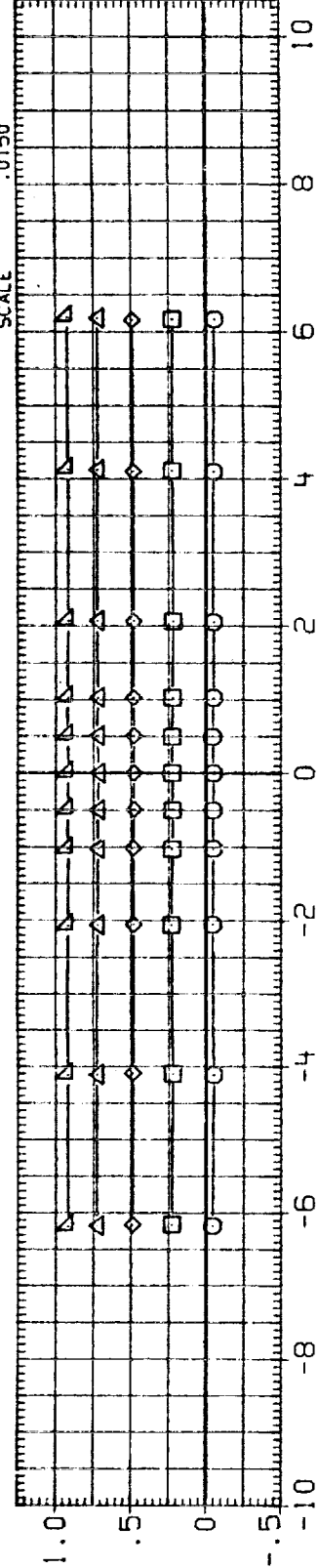


FIG. 32 YAW POLARS, ELEVON = 0

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (CUK069) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.000 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (CUK072) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.000 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK075) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.000 | .000 | .000 | BREF 936.6800 INCHES |
| (CUK080) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.000 | .000 | .000 | XMRP 1076.7000 IN. YO |
| (CUK085) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.000 | .000 | .000 | YMRP 375.0000 IN. ZO |
| | | | | | | ZMRP .0150 |

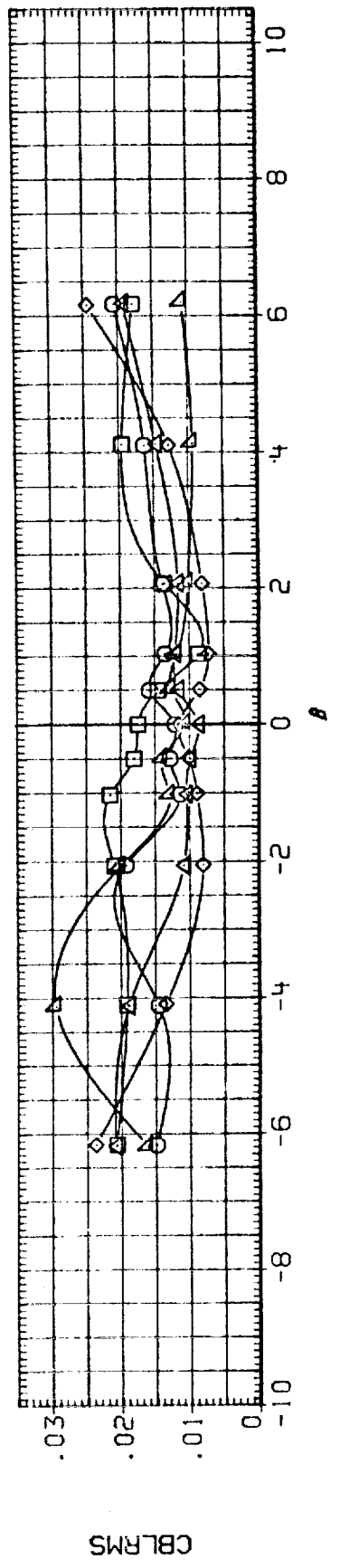
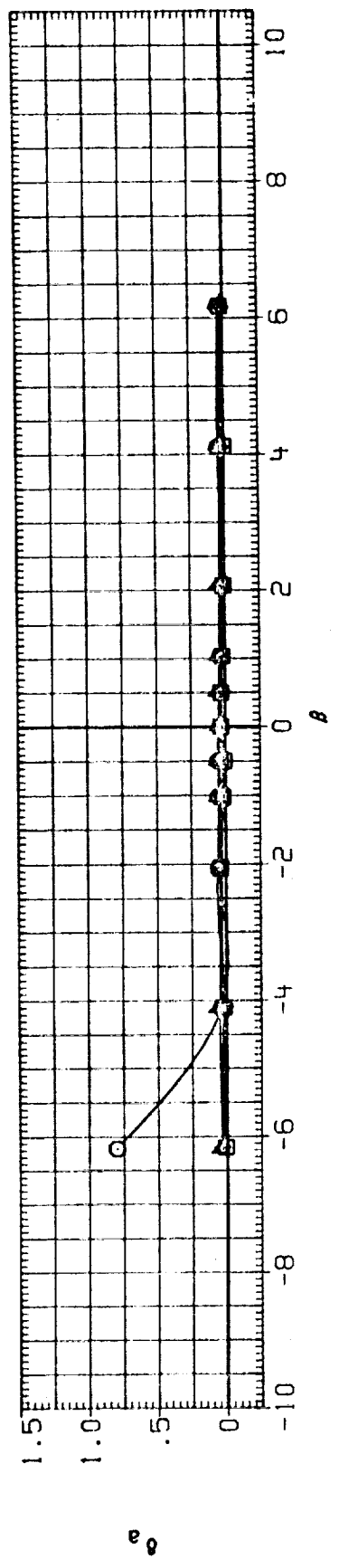
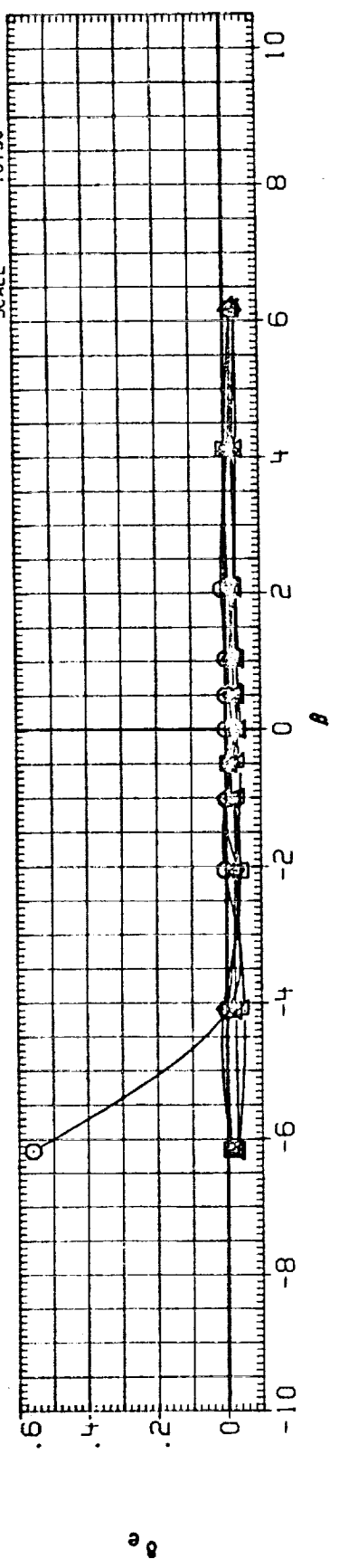


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = 1.20

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION | |
|----------|--------|--|--------|-------|---------|--------|-----------------------|----------------------|
| (RUK057) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SQ.FT. | |
| (RUK059) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES | |
| (RUK061) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6900 INCHES | |
| (RUK064) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | XMRP 1076.7000 IN. XO | |
| (RUK066) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | -10.000 | .000 | YMRP .0000 IN. YO | ZMRP 375.0000 IN. ZO |

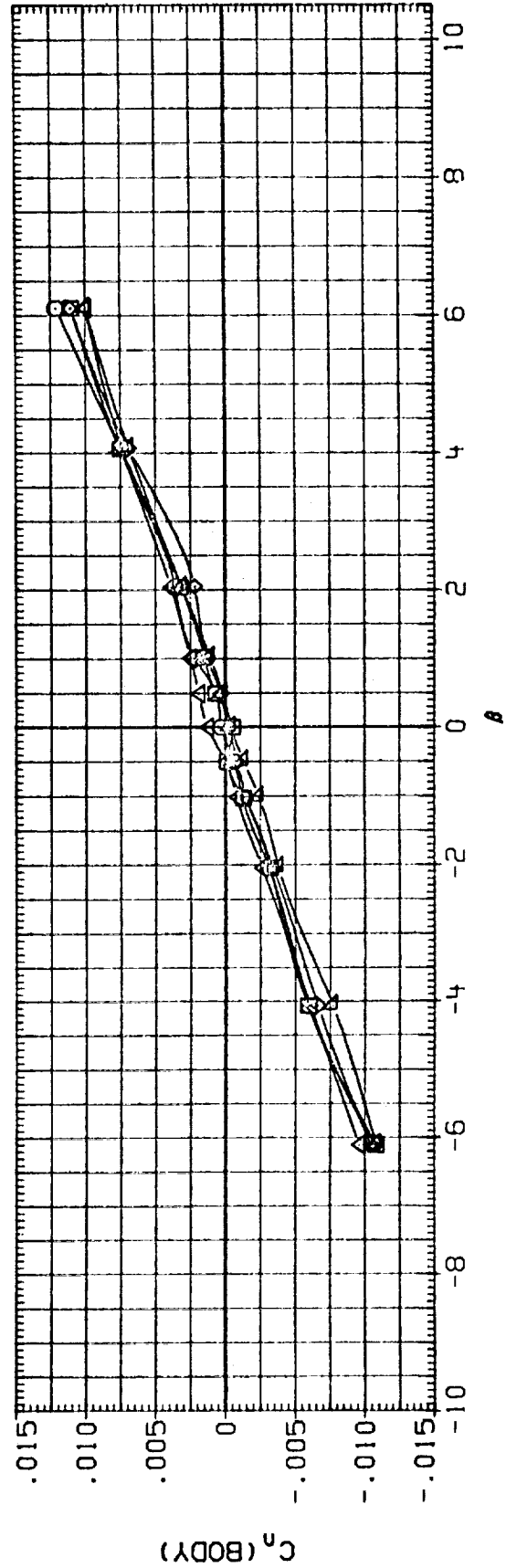
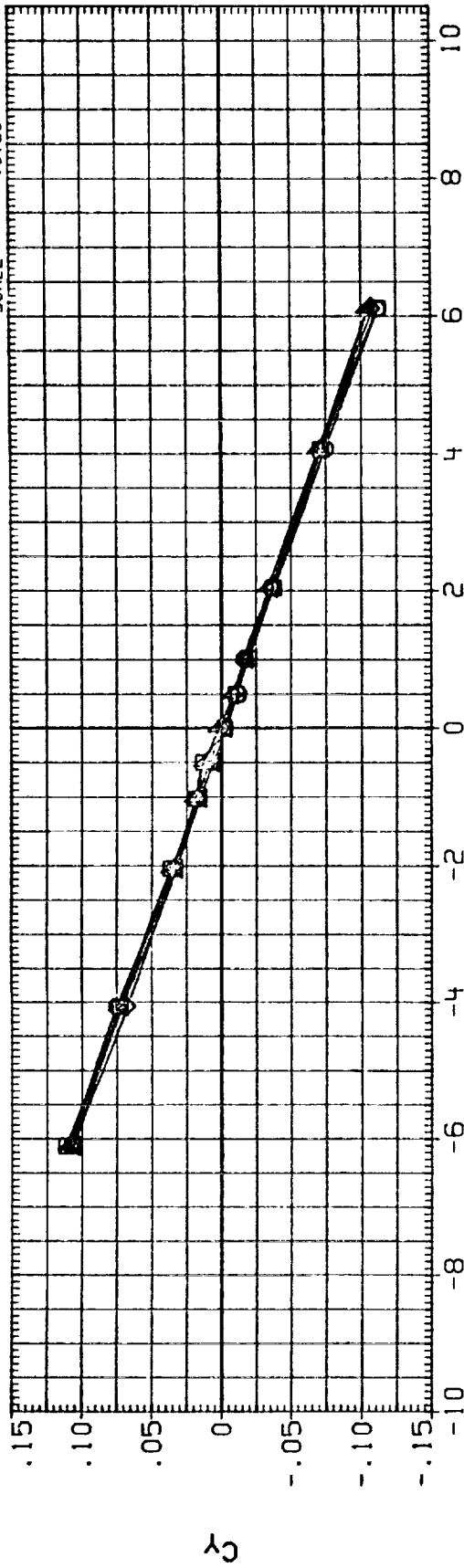


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|---------|--------|-----------------------|
| (RUK057) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK066) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | -10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |

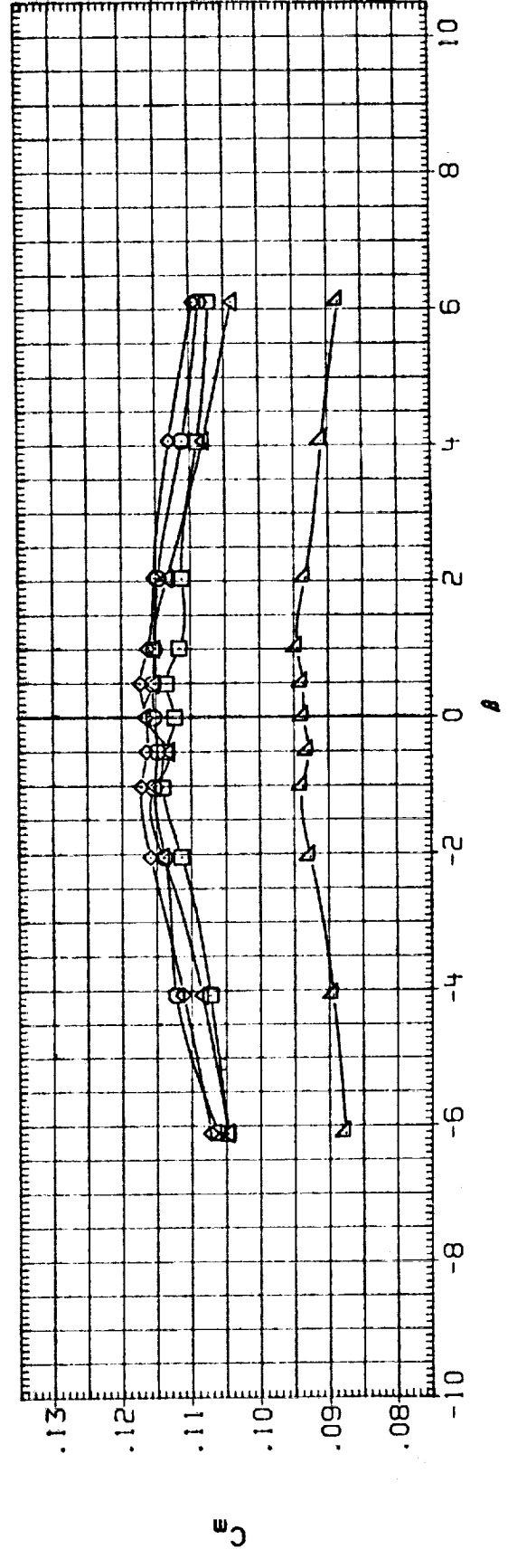
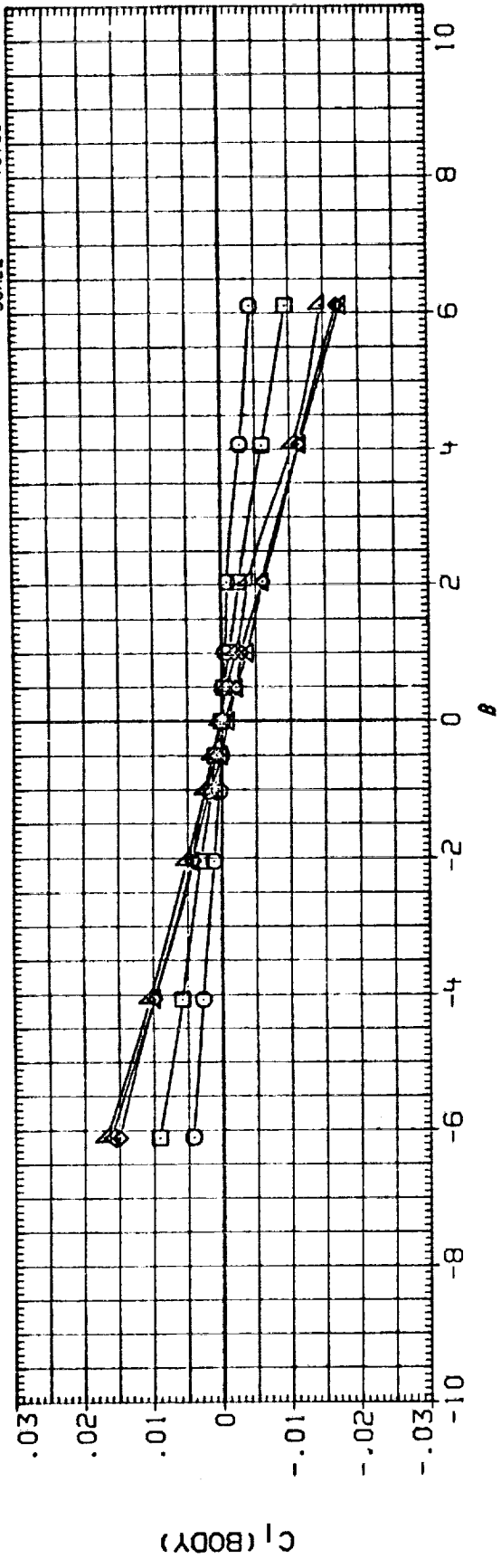


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|---------|--------|------------------------|
| (RUK057) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SO. FT. |
| (RUK059) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK061) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK064) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | YMRP 1076.7000 IN. XO |
| (RUK066) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | -10.000 | .000 | ZMRP 375.0000 IN. YO |
| | | | | | | SCALE .0150 |

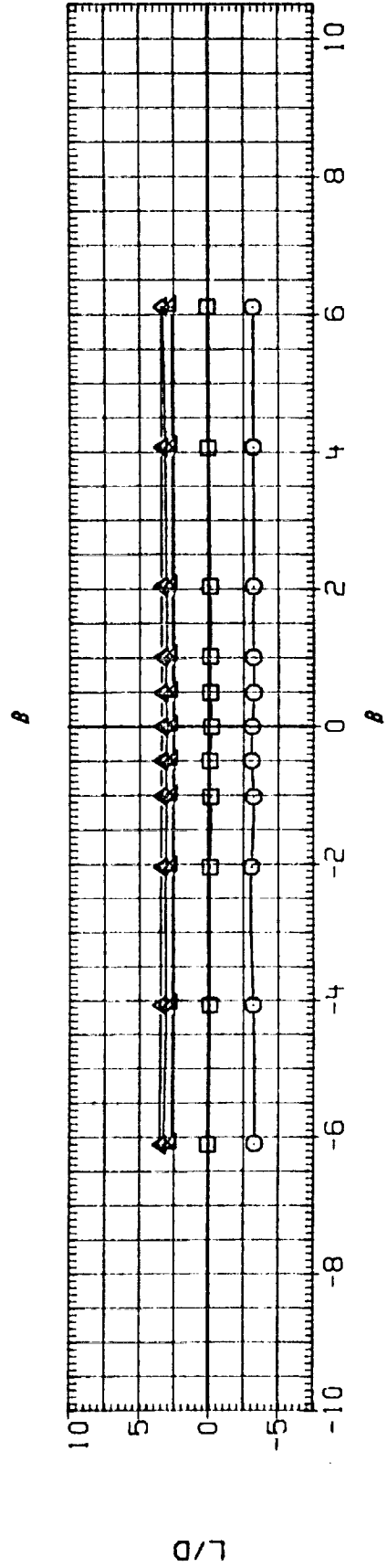
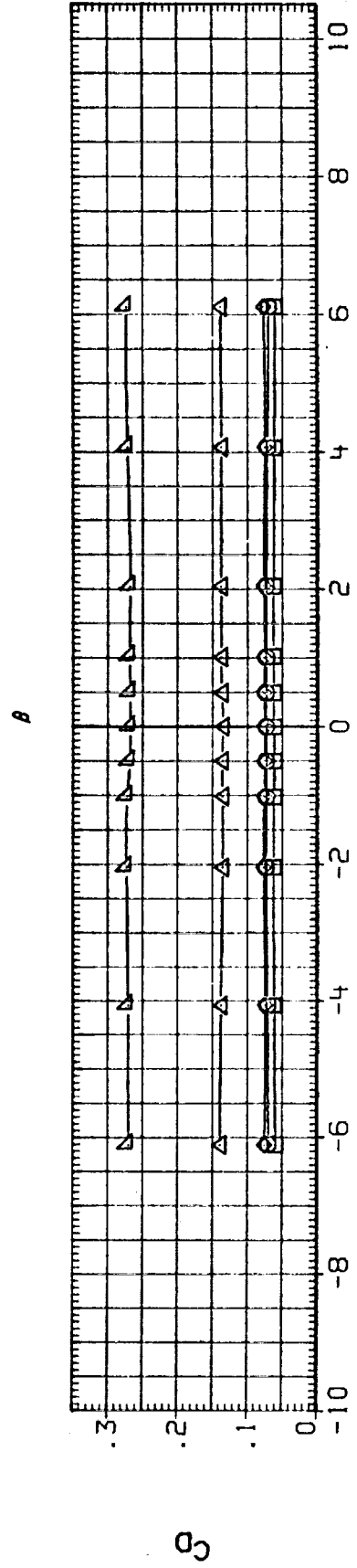
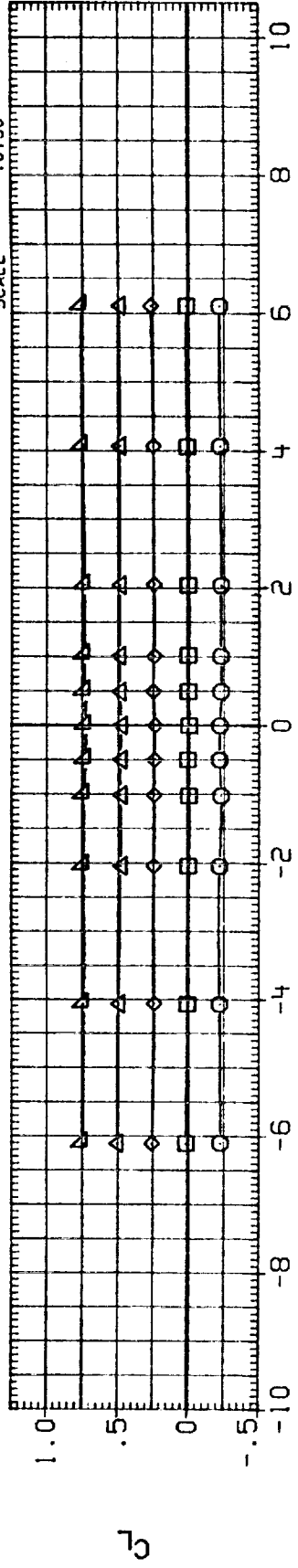


FIG. 33 YAW POLARS, ELEVON = -10

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION | SO. FT. |
|-----------------|--|--------|-------|---------|--------|-----------------------|-----------|
| (CUK0571) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | SREF | 2690.0000 |
| (CUK0591) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF | 474.8000 |
| (CUK0611) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF | 936.6800 |
| (CUK0641) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | XMRP | 1076.7000 |
| (CUK0661) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | -10.000 | .000 | ZMRP | 375.0000 |
| | | | | | | | IN. YO |
| | | | | | | | IN. ZO |
| | | | | | | | SCALE |
| | | | | | | | .0150 |

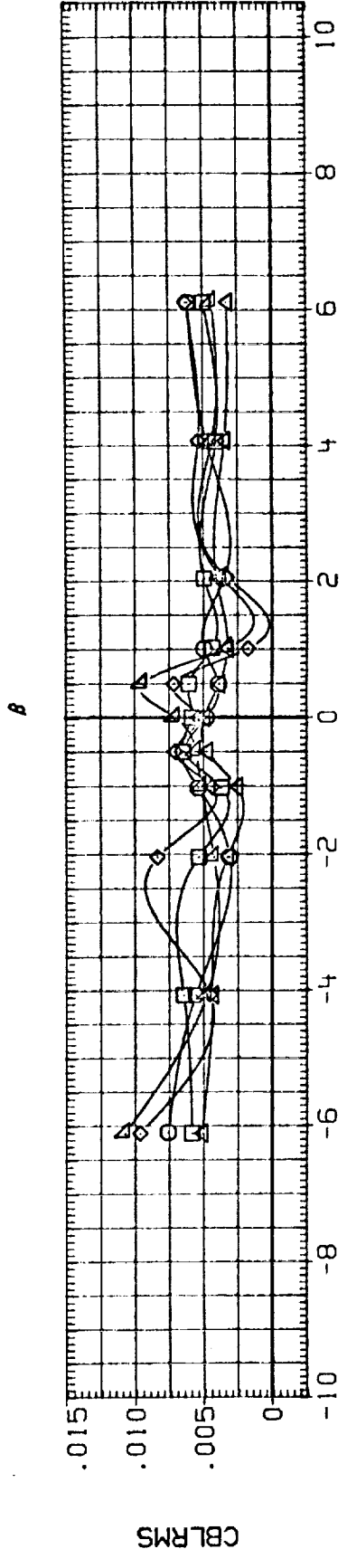
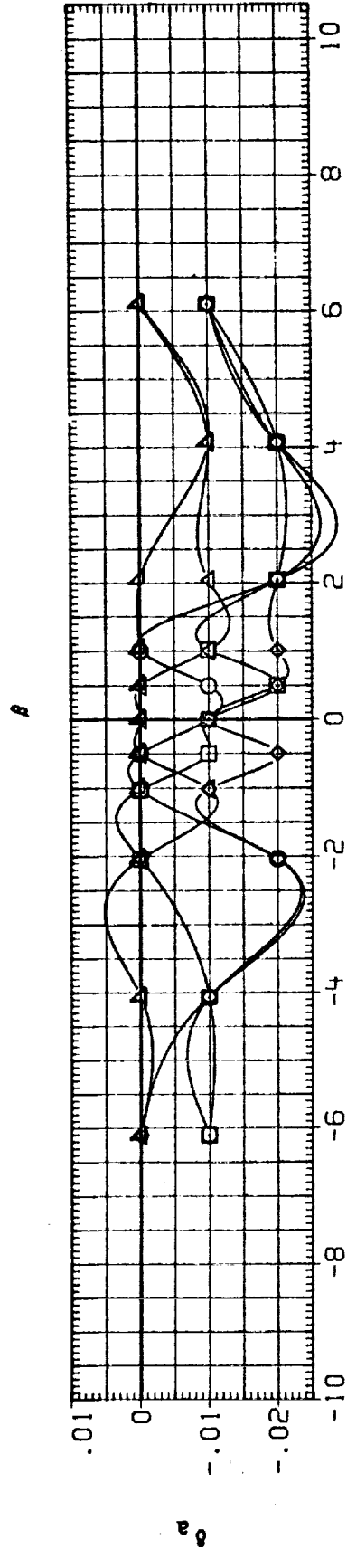
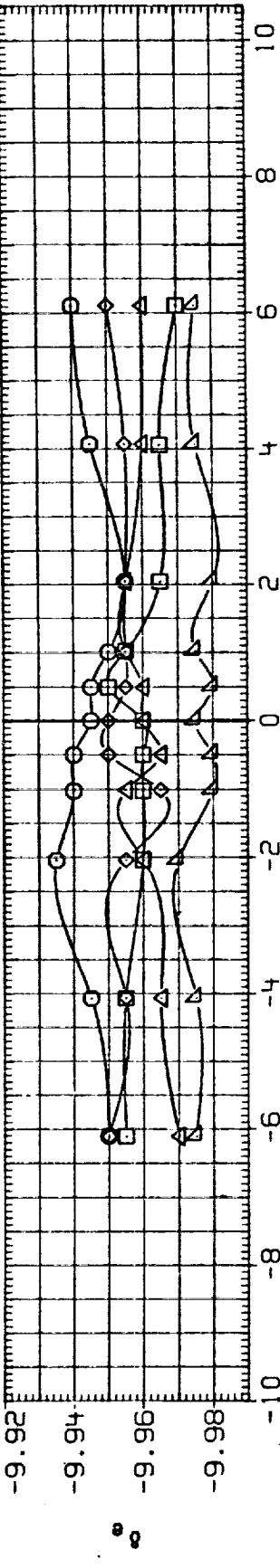


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|---------|--------|-----------------------|
| (RUK057) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK066) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | -10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

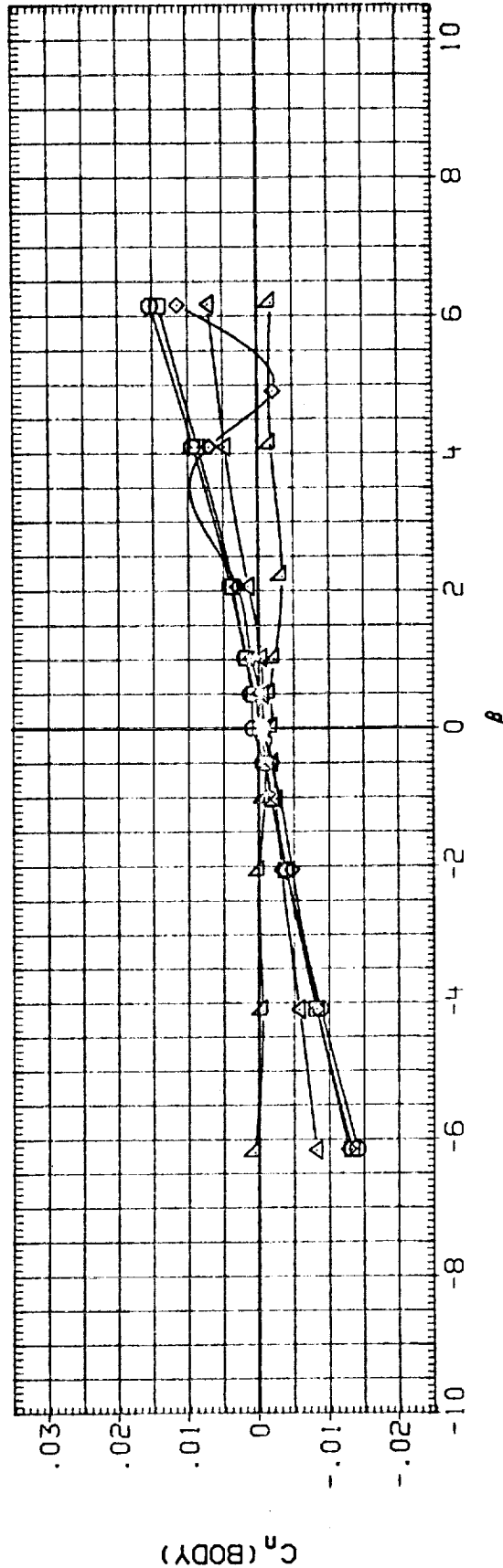
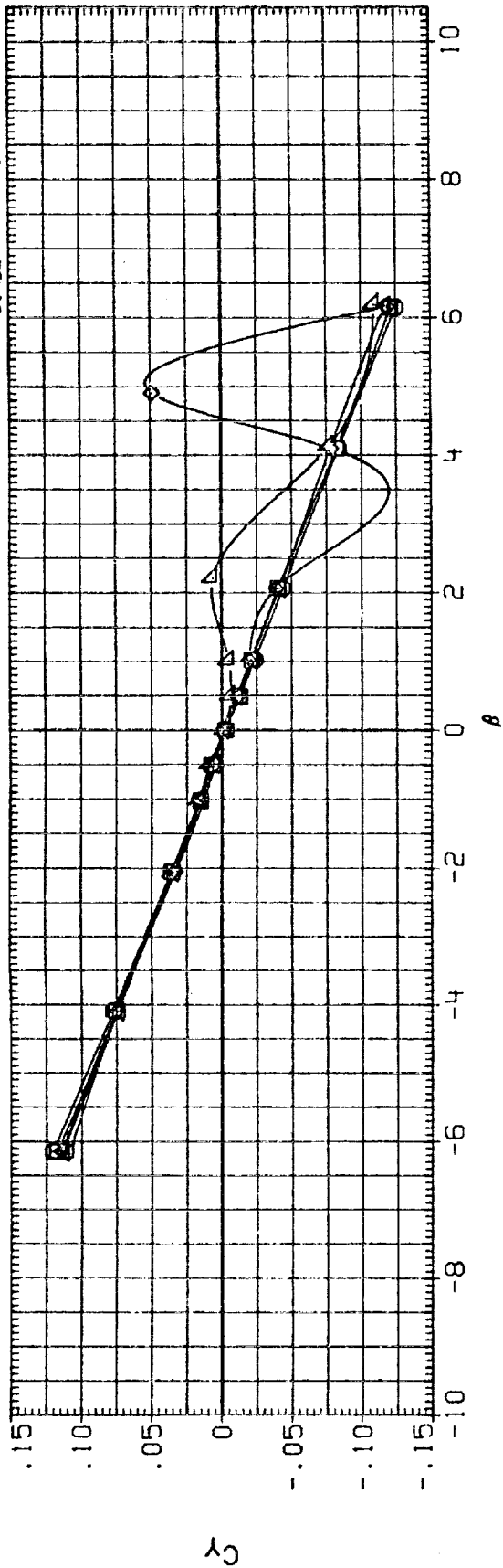


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .80

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|---------|--------|------------------------|
| (RUK057) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SQ. FT. |
| (RUK059) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK061) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK064) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK066) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | -10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |

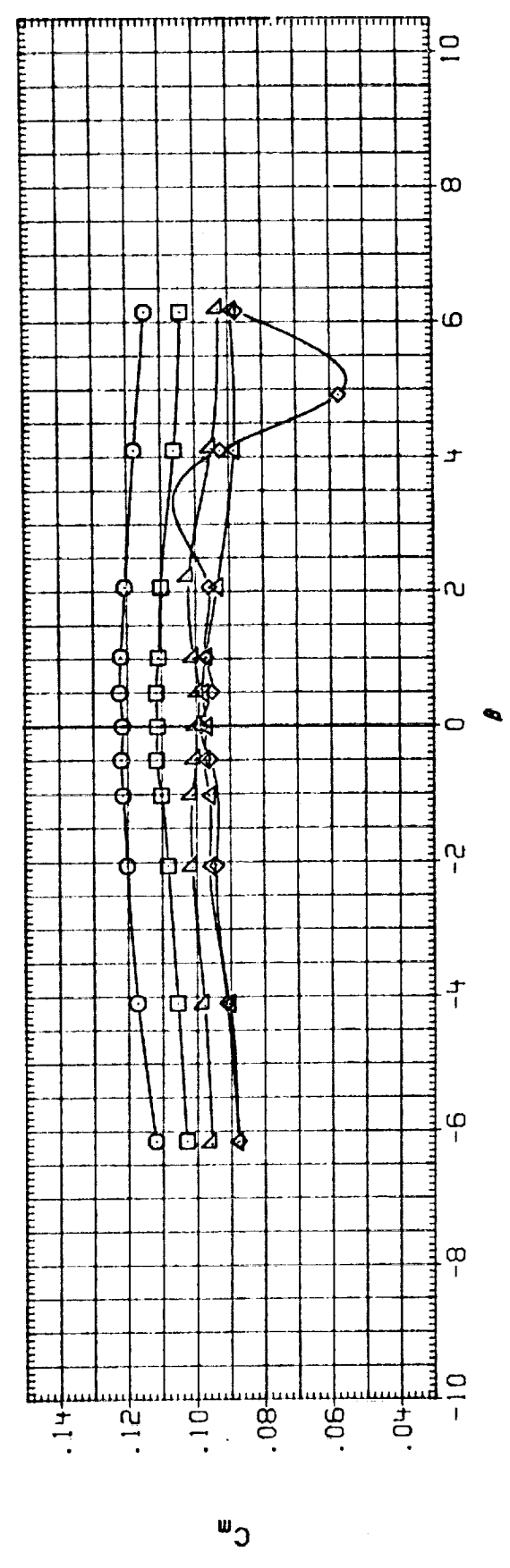
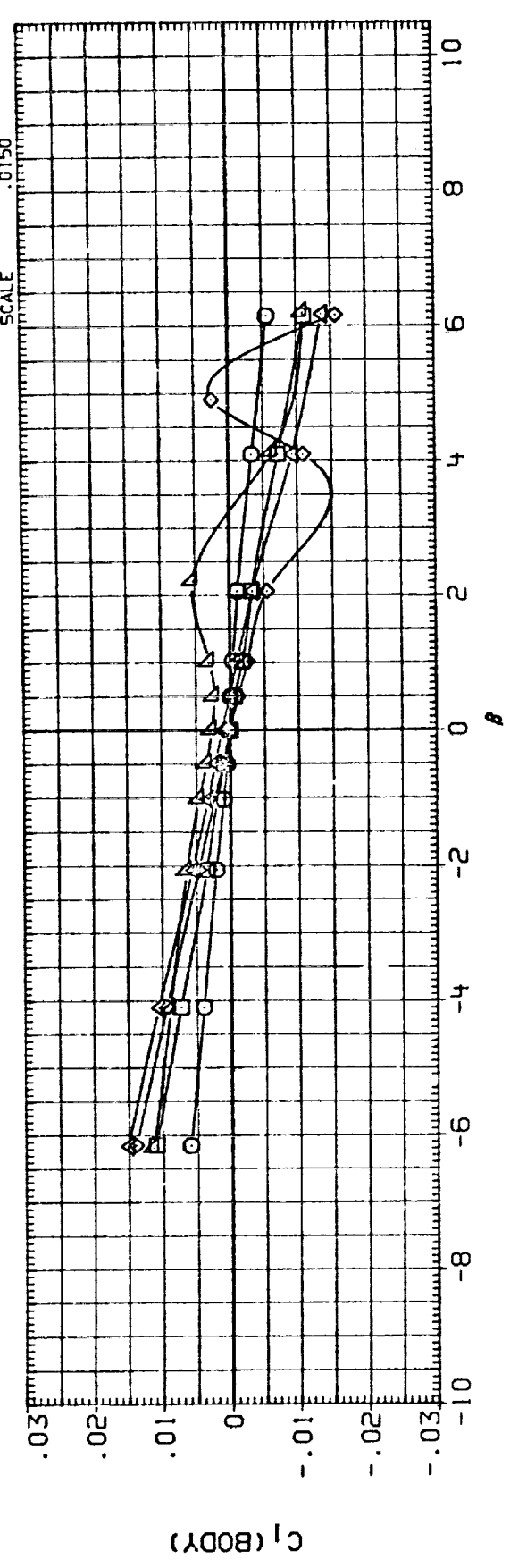


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .80

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|---------|--------|-----------------------|
| (RUK0571) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK061) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK064) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK066) | LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) | 20.000 | 4.500 | -10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |

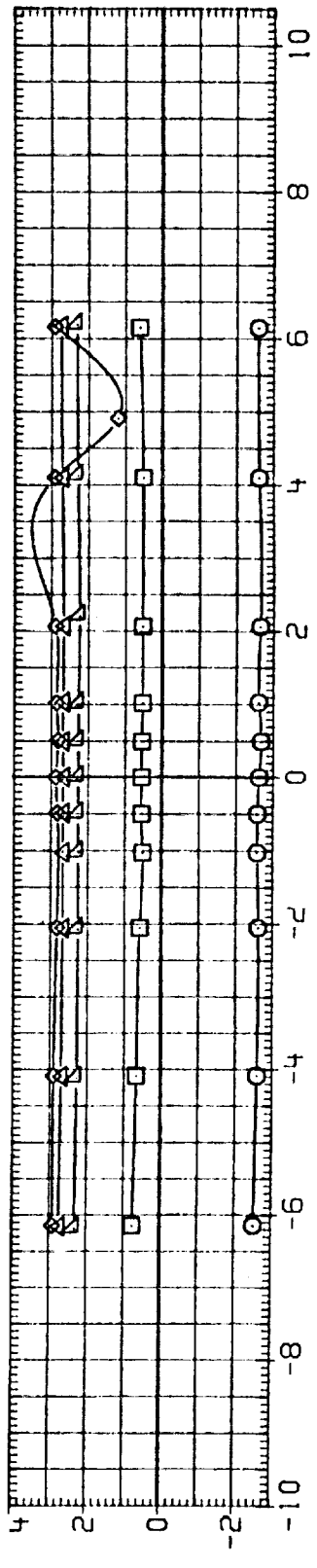
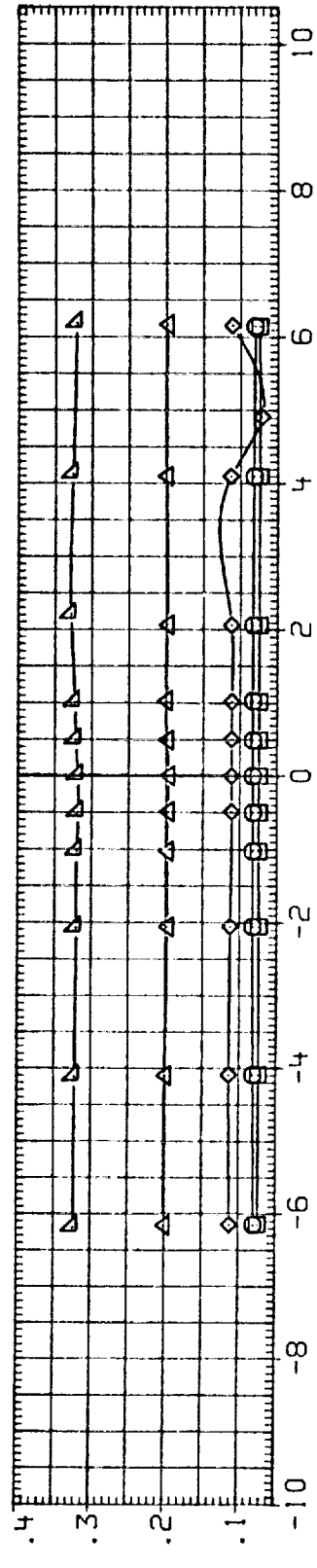
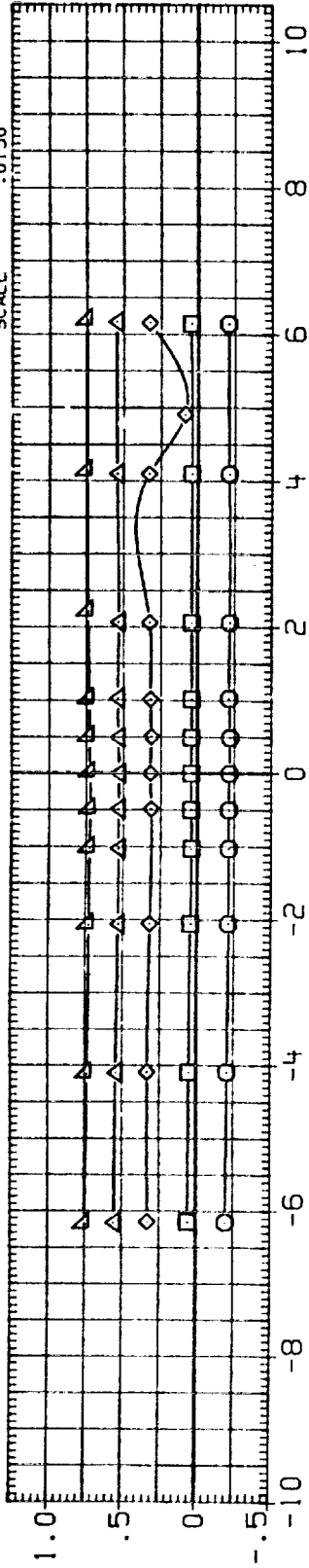


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .80

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|---------|--------|-----------------------|
| (CUK057) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SO.FT. |
| (CUK058) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (CUK061) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (CUK064) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | XMRP 1076.7000 IN. XO |
| (CUK066) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | -10.000 | .000 | ZMRP .0000 IN. YO |
| | | | | | | | SCALE .0150 |

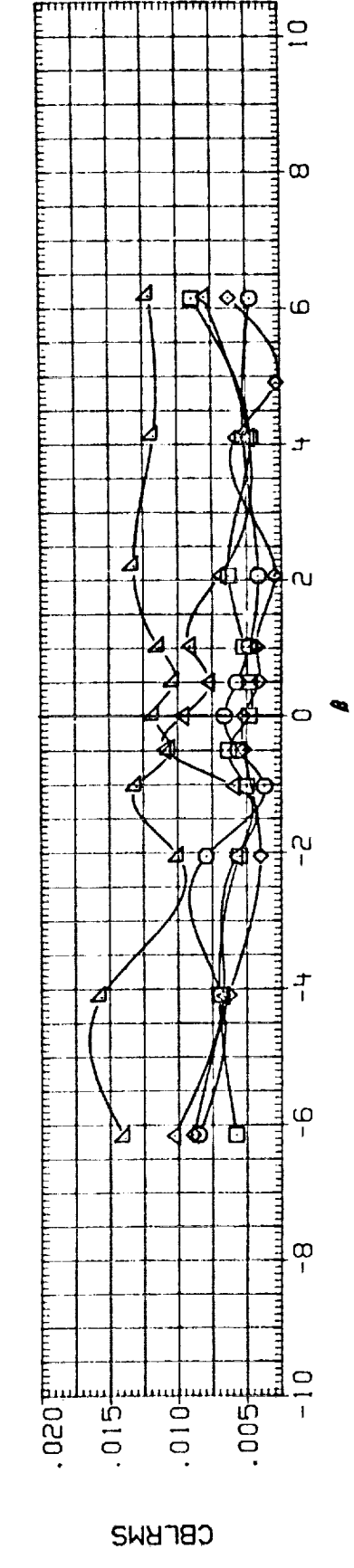
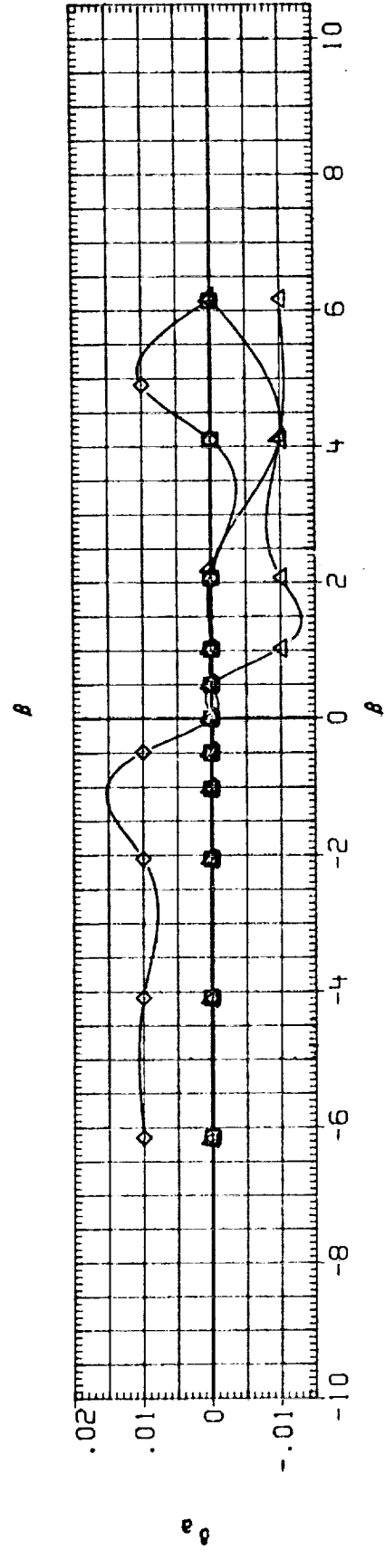
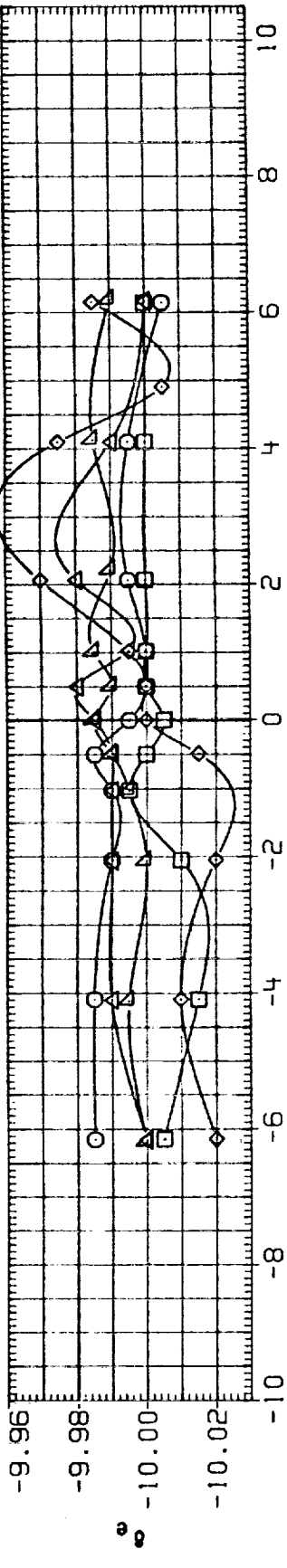


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .80

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILERON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|---------|---------|------------------------|
| (RUK057) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SQ. FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK066) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | -10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |

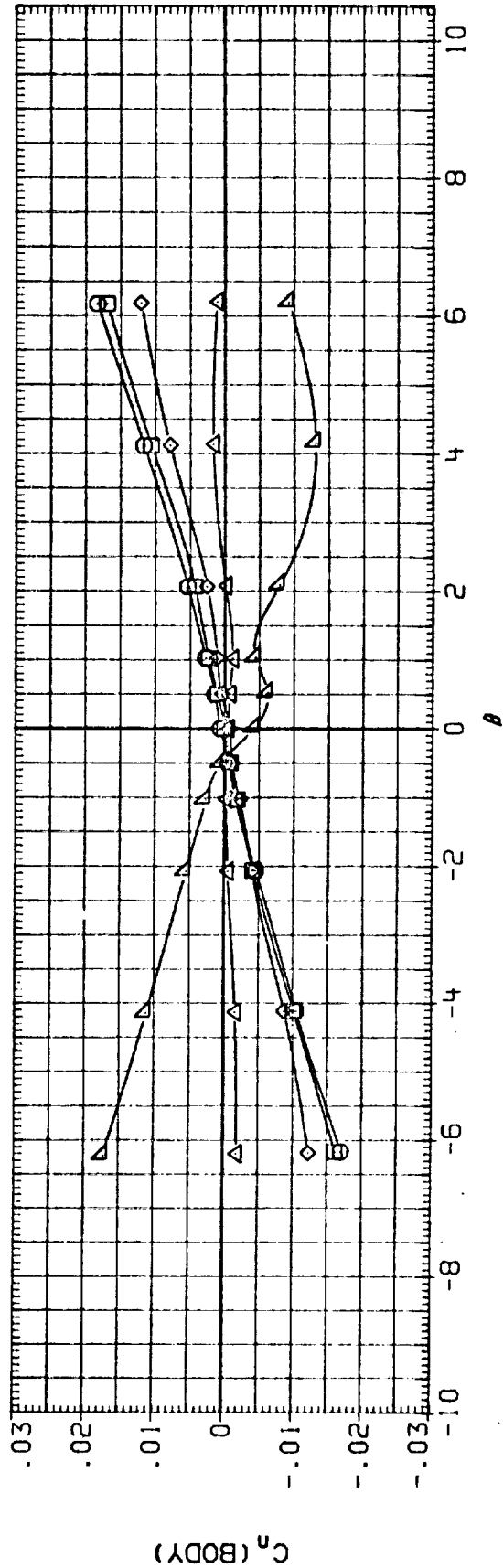
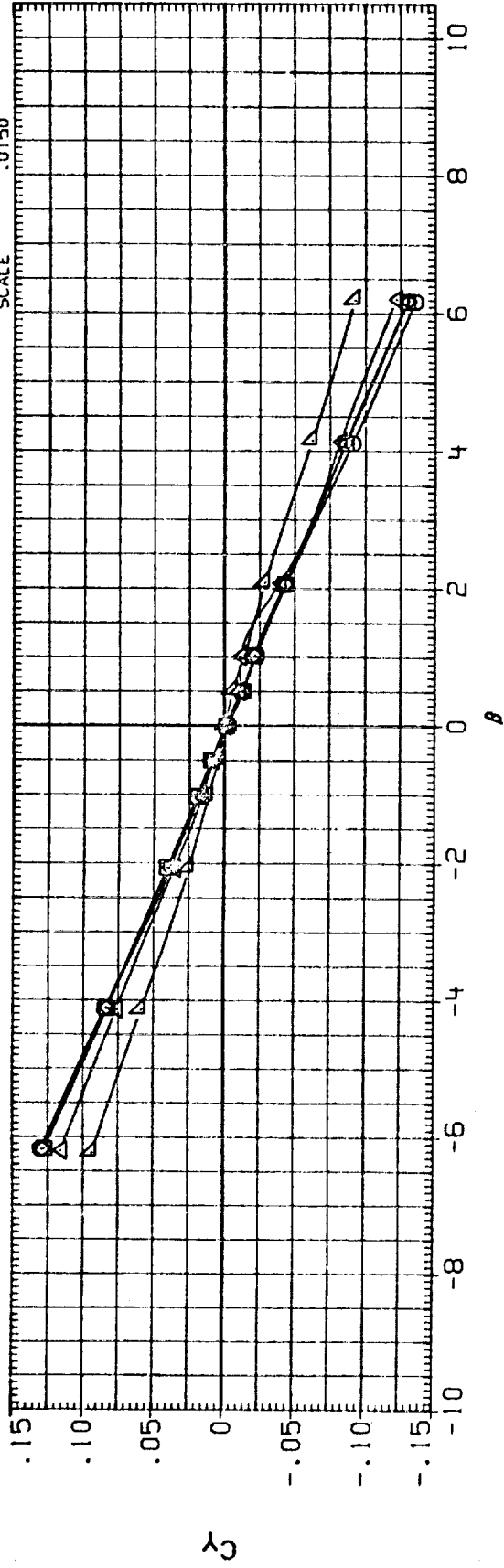


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .90

| | | | | | | |
|-----------------|--|--------|-------|---------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
| (RUK057) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | YMRF 1076.7000 IN. XO |
| (RUK066) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | -10.000 | .000 | ZMRP 375.0000 IN. YO |
| | | | | | | SCALE .0150 |

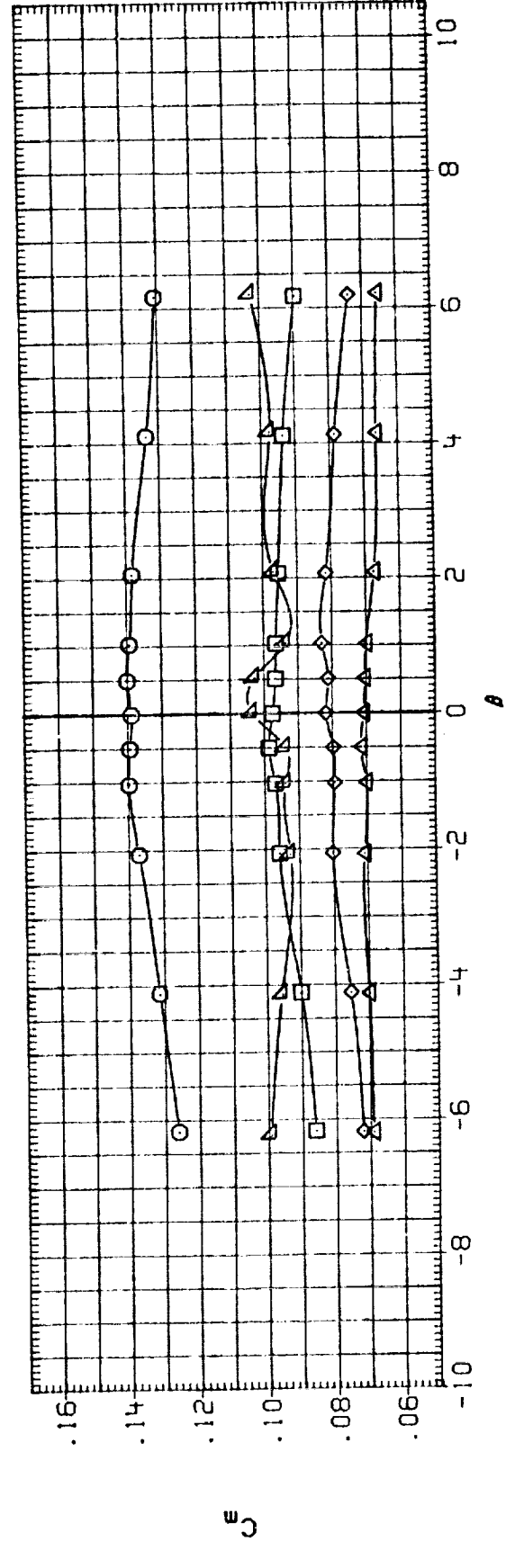
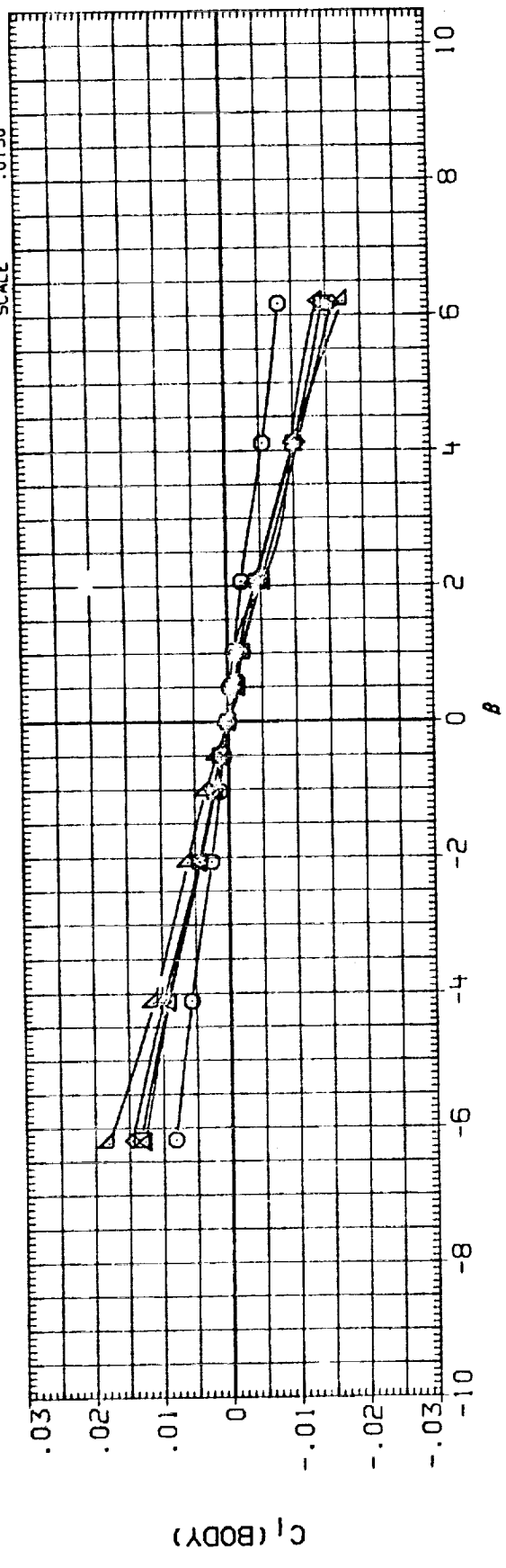


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .90

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AIRL/RON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|---------|----------|-----------------------|
| (RUK057) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | YMRP 1076.7000 IN. XO |
| (RUK066) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | -10.000 | .000 | ZMRP 375.0000 IN. ZO |

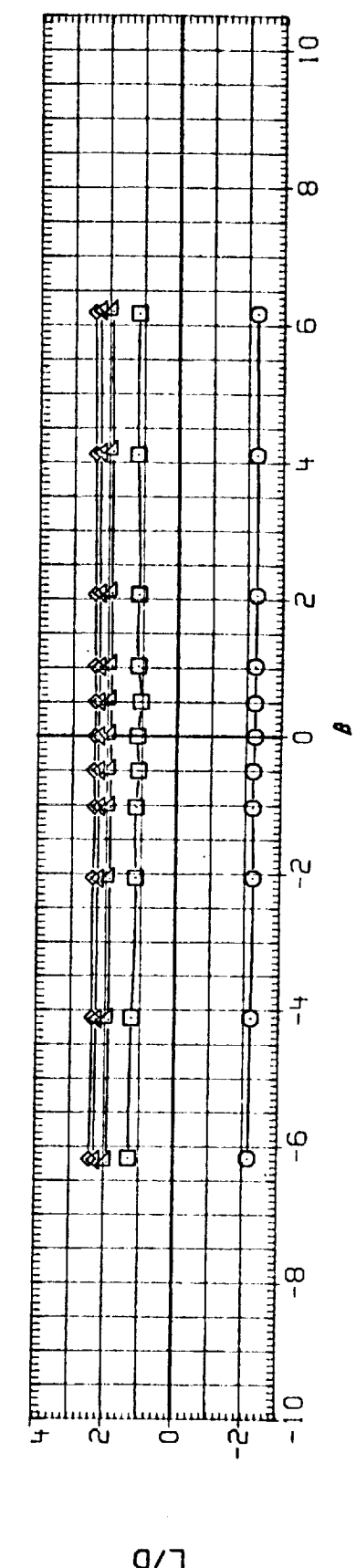
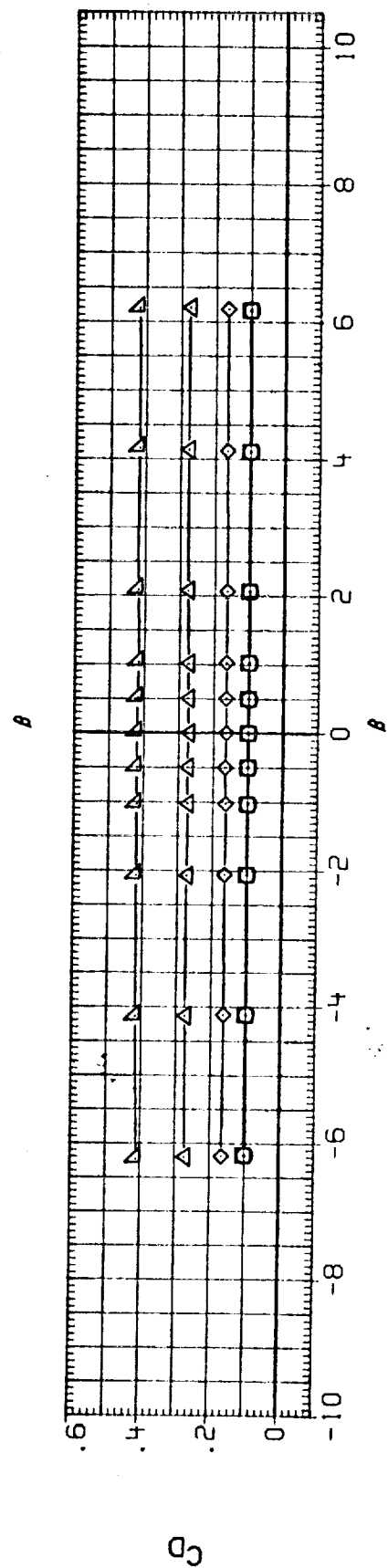
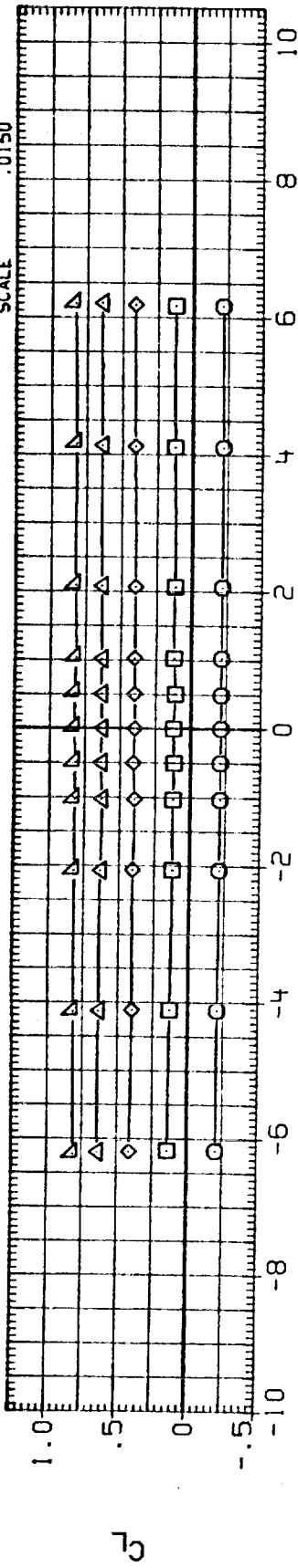


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .90

| | | | | | | |
|-----------------|--|--------|-------|---------|---------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILIRON | REFERENCE INFORMATION |
| (CUK057) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SO.FT. |
| (CUK058) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (CUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (CUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | XMRP 1076.7000 IN. XO |
| (CUK066) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | -10.000 | .000 | ZMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

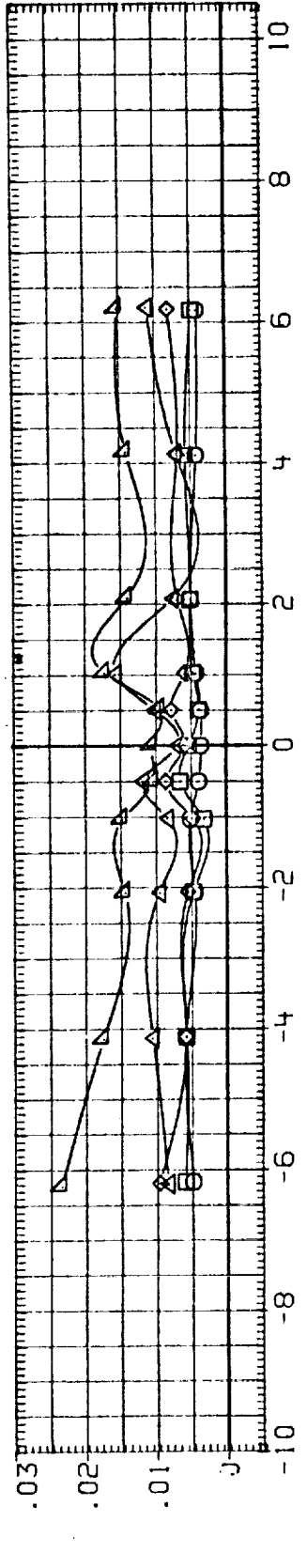
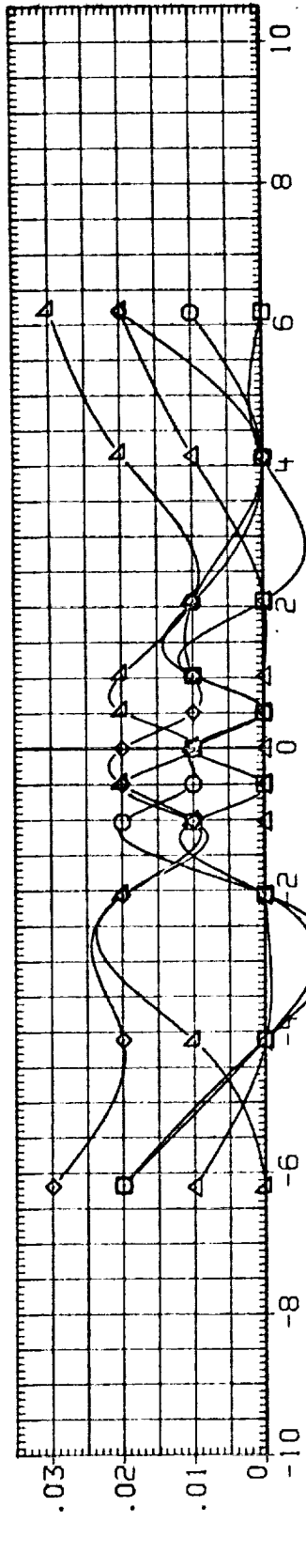
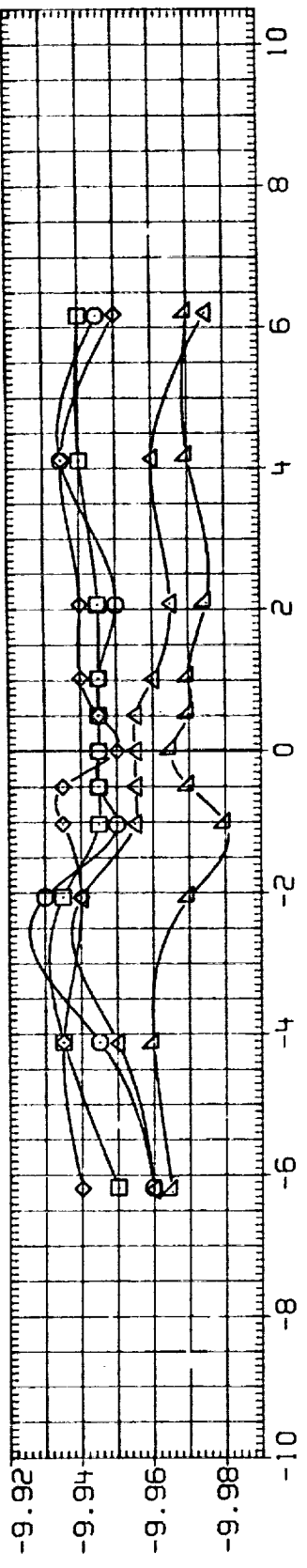


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .90

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|---------|--------|-----------------------|
| (RUK057) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LRPF 474.8000 INCHES |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | XHRP 1076.7000 IN. XO |
| (RUK066) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | -10.000 | .000 | YHRP .0000 IN. YO |
| | | | | | | ZHRP 375.0000 IN. ZO |

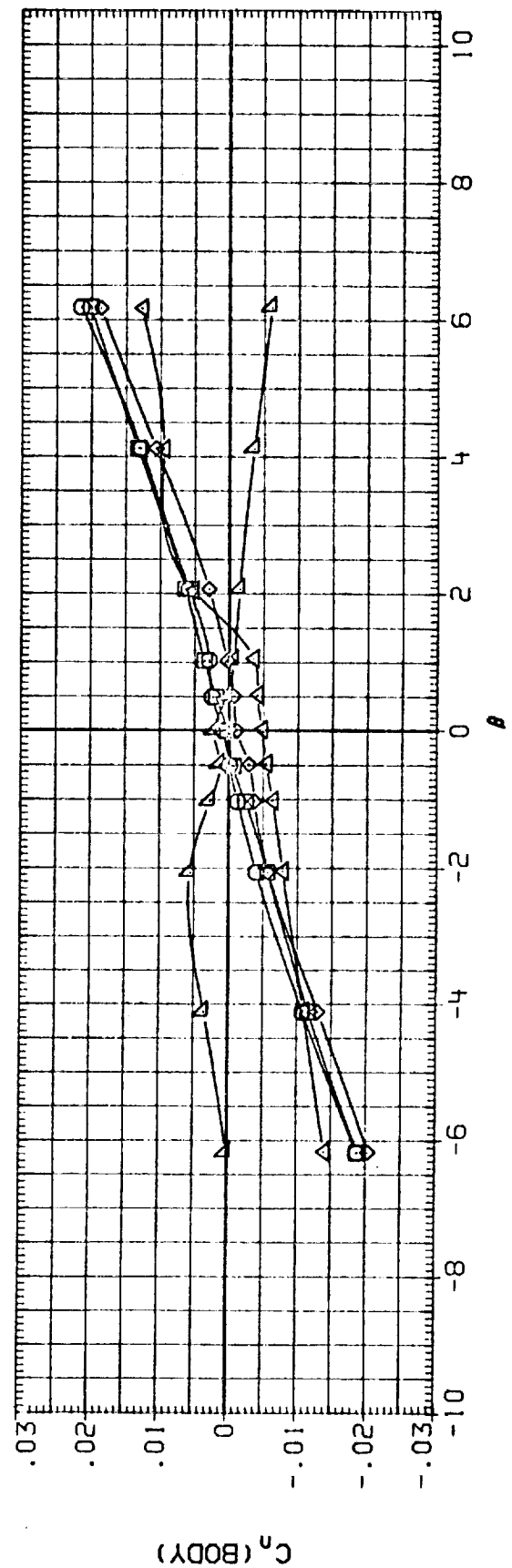
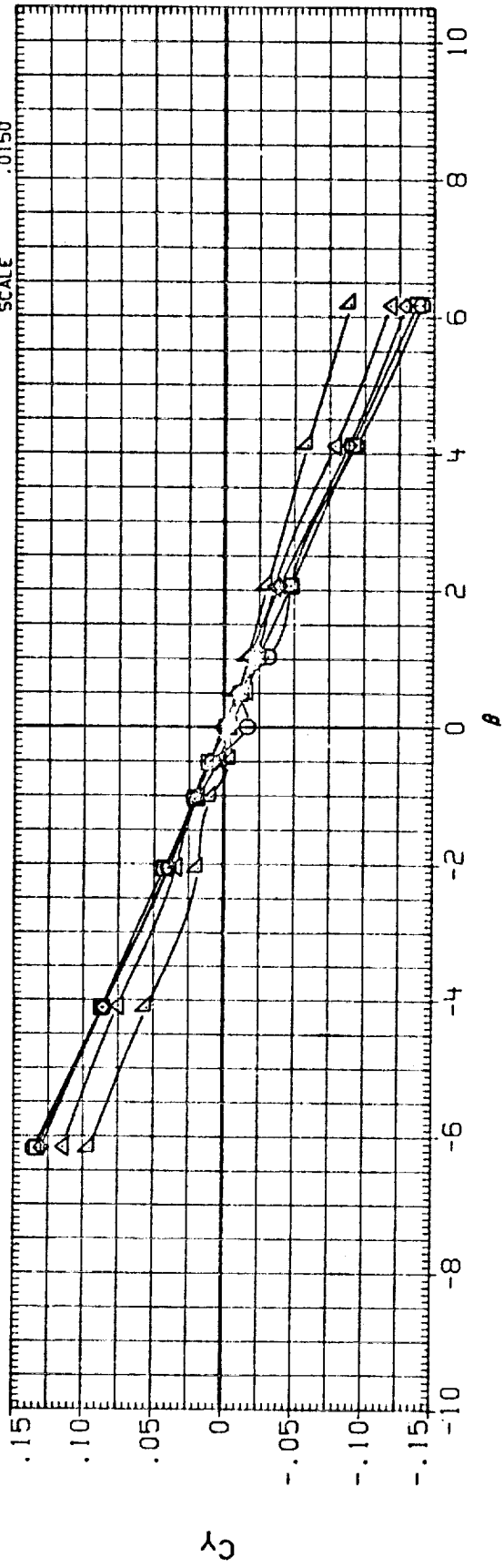


FIG. 33 YAW POLARS, ELEVON = -10

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|---------|--------|-----------------------|
| (RUK057) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK066) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | -10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |

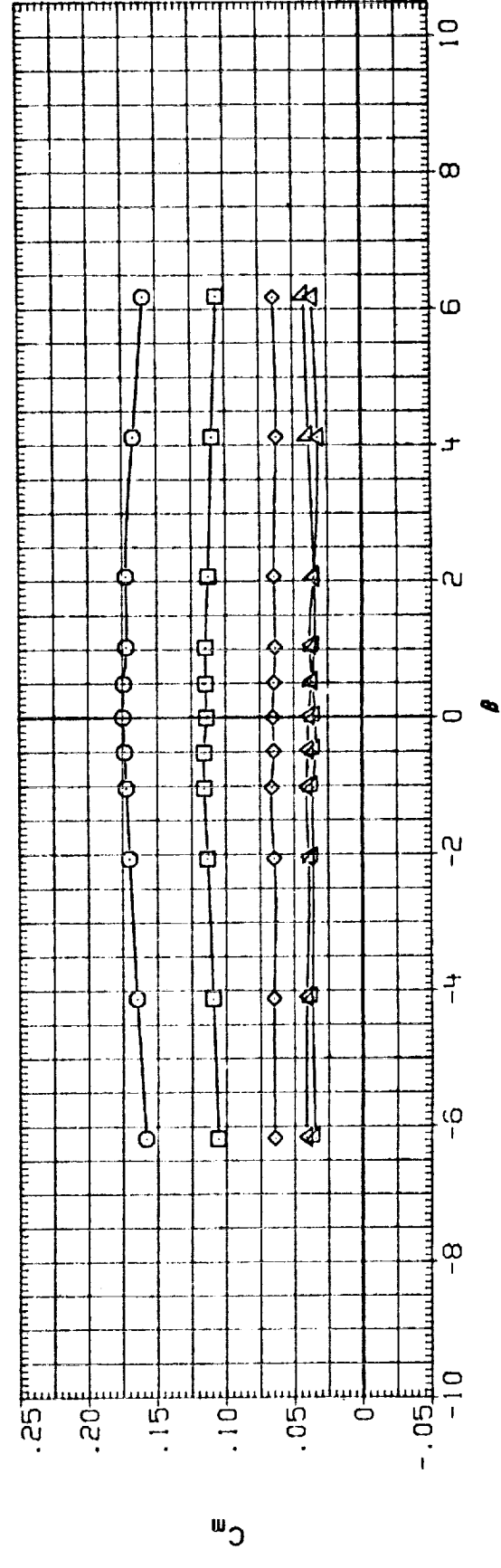
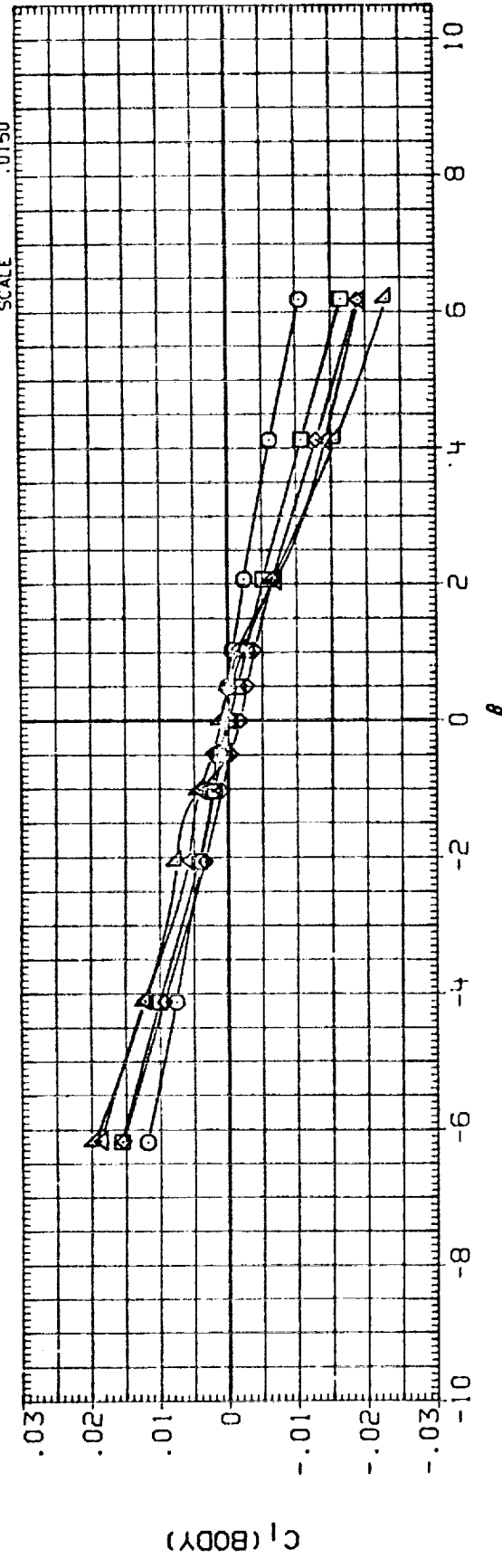


FIG. 33 YAW POLARS, ELEVON = -10

(A)MACH = .95

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|---------|--------|-----------------------|
| (RUK057) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK066) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | -10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |

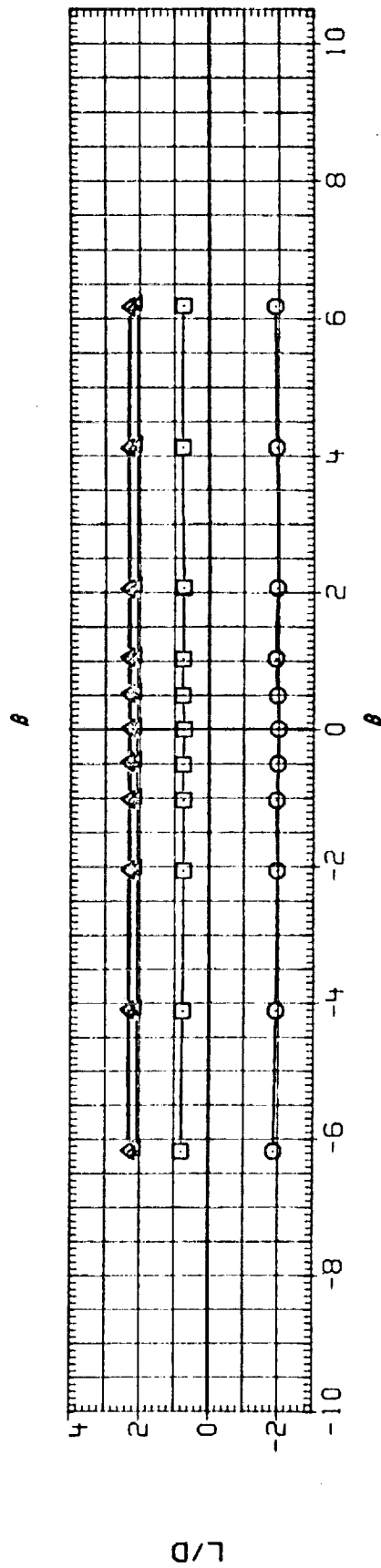
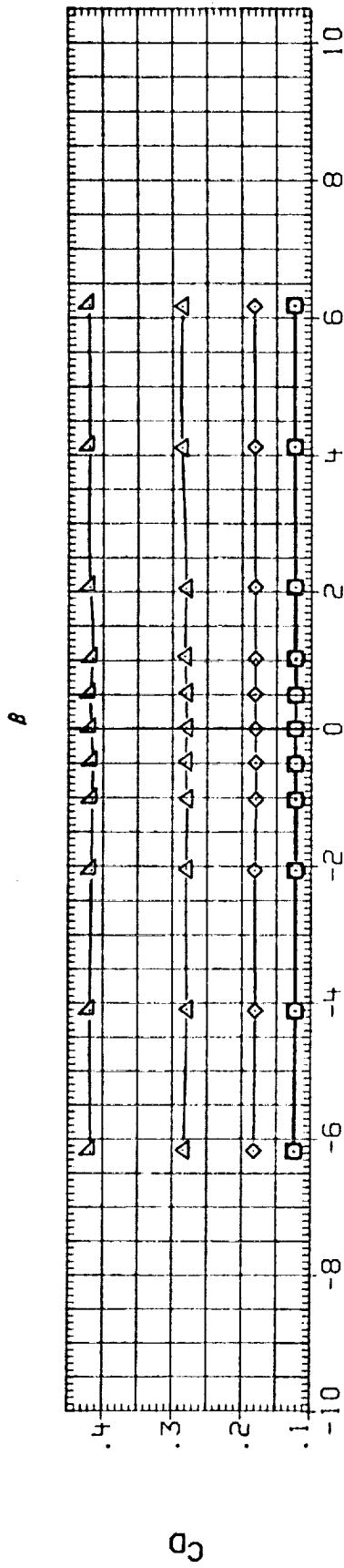
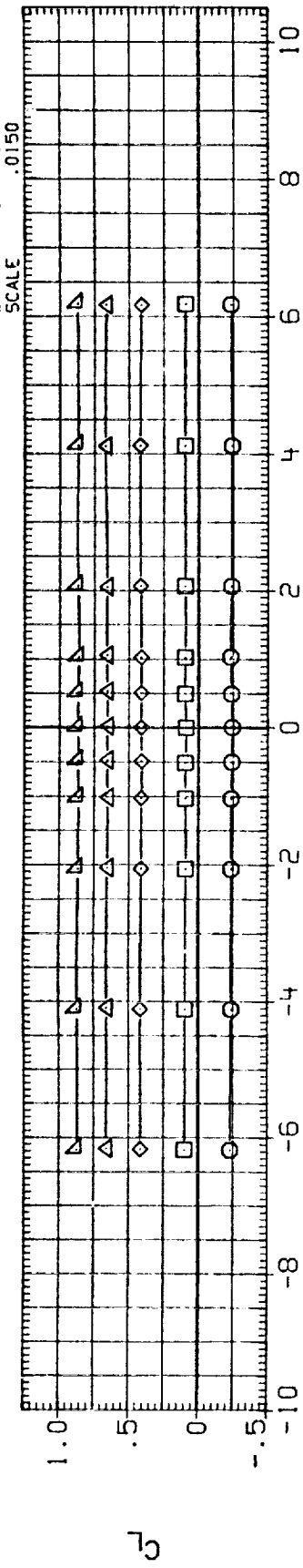


FIG. 33 YAW POLARS, ELEVON = -10

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK057) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK059) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK061) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK064) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK066) ▲ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ALPHA RN/L ELEVON AILRON

.000 4.500 -10.000 .000

5.000 4.500 -10.000 .000

10.000 4.500 -10.000 .000

15.000 4.500 -10.000 .000

20.000 4.500 -10.000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

YMRP 1076.7000 IN. XO

ZMRP .0000 IN. YO

SCALE .0150

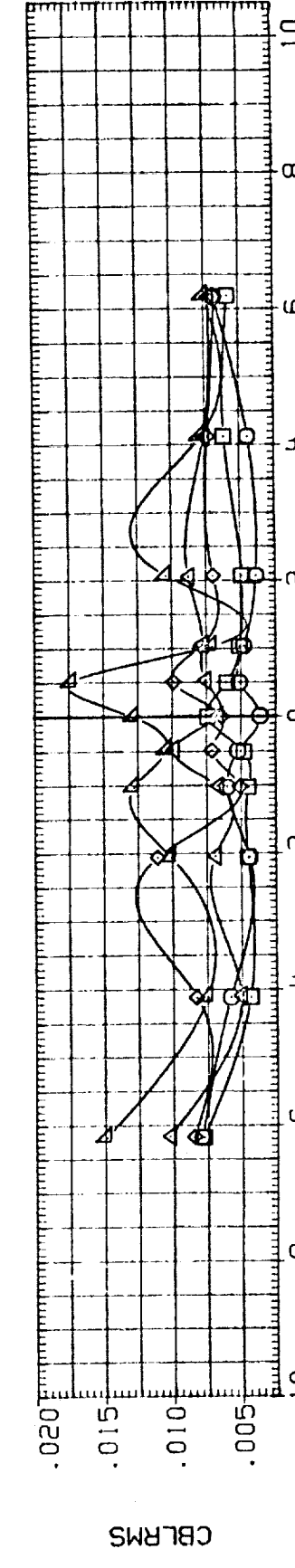
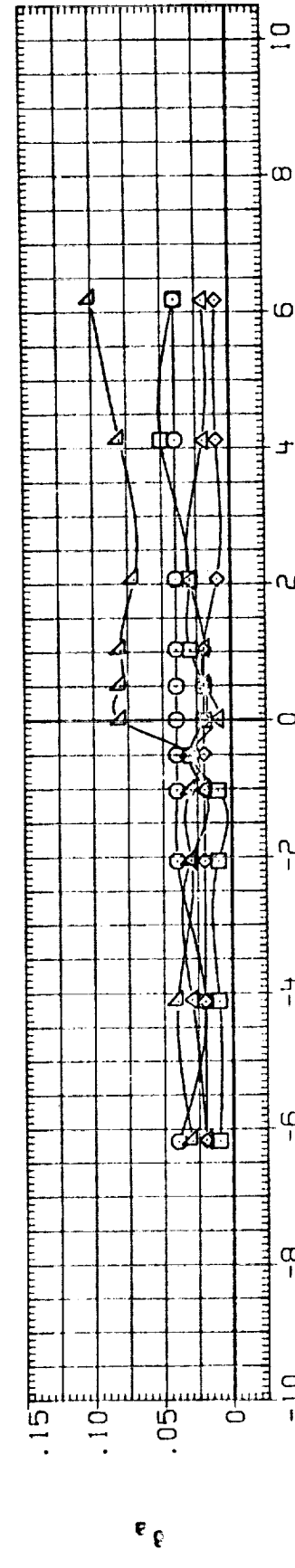
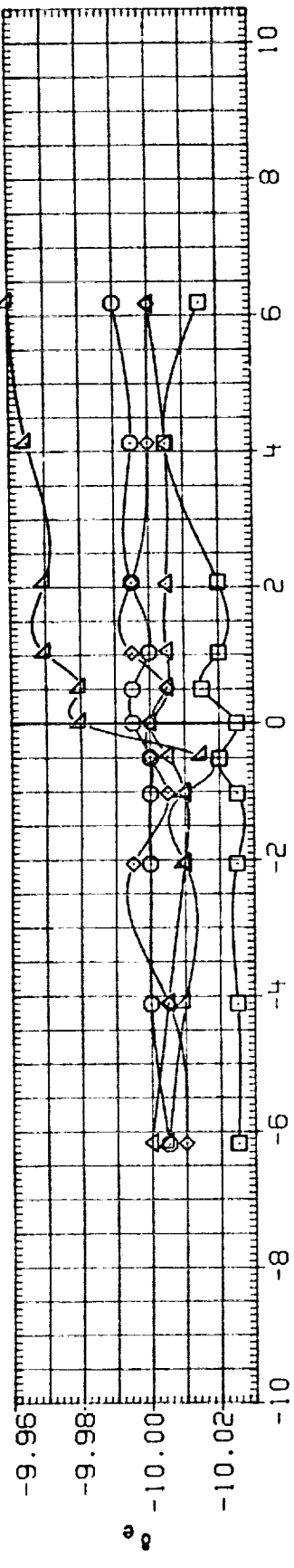


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .95

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|---|--------|-------|---------|--------|-----------------------|
| (RUK057) | DATA NOT AVAILABLE | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK059) | LAT70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK061) | LAT70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK064) | DATA NOT AVAILABLE | 15.000 | 4.500 | -10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK066) | DATA NOT AVAILABLE | 20.000 | 4.500 | -10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

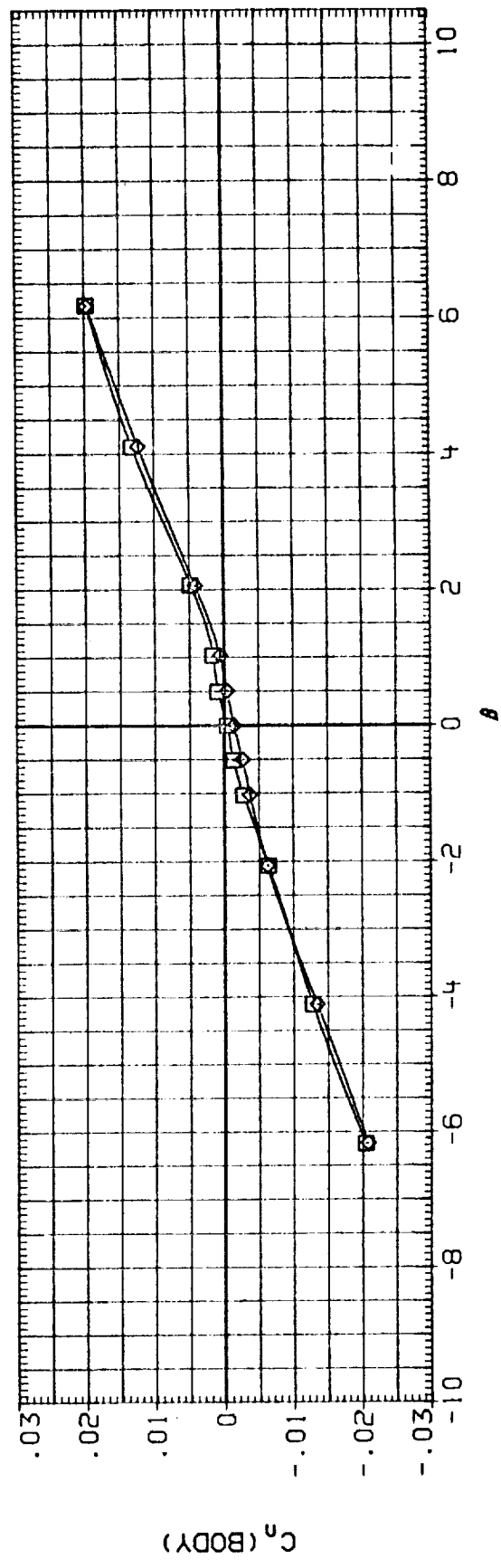
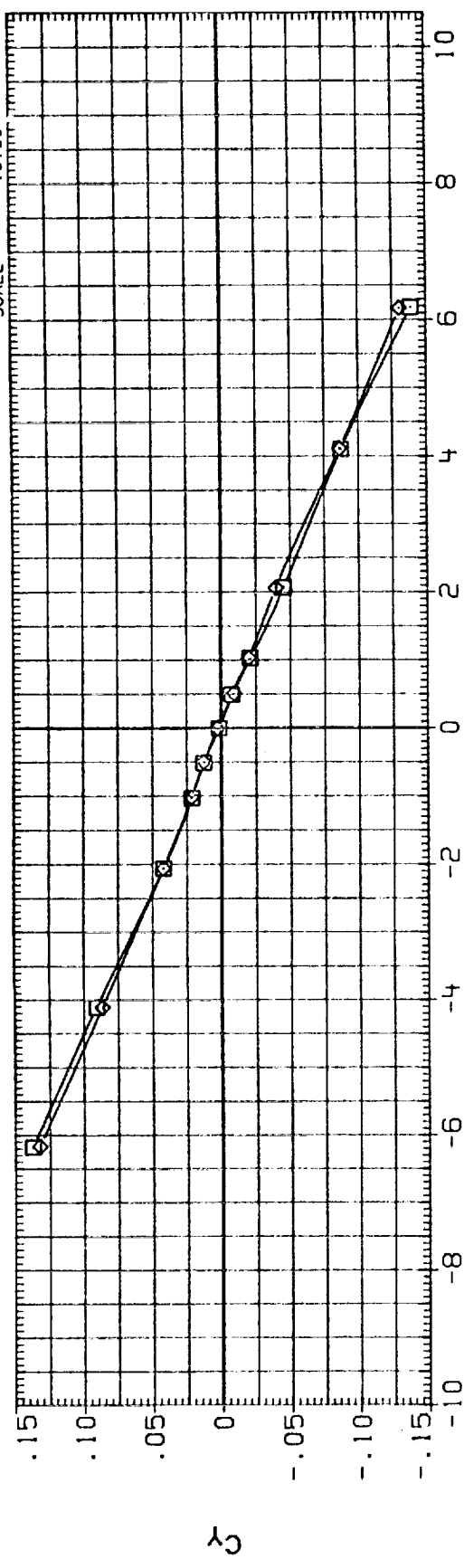


FIG. 33 YAW POLARS, ELEVON = -10

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK057) DATA NOT AVAILABLE
 (RUK058) LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 (RUK061) LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 (RUK064) DATA NOT AVAILABLE
 (RUK066) DATA NOT AVAILABLE

ALPHA RN/L ELEVON ATLRON

.000 4.500 -10.000 .000
 5.000 4.500 -10.000 .000
 10.000 4.500 -10.000 .000
 15.000 4.500 -10.000 .000
 20.000 4.500 -10.000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP 375.0000 IN. YO
 ZMRP .0150 IN. ZO

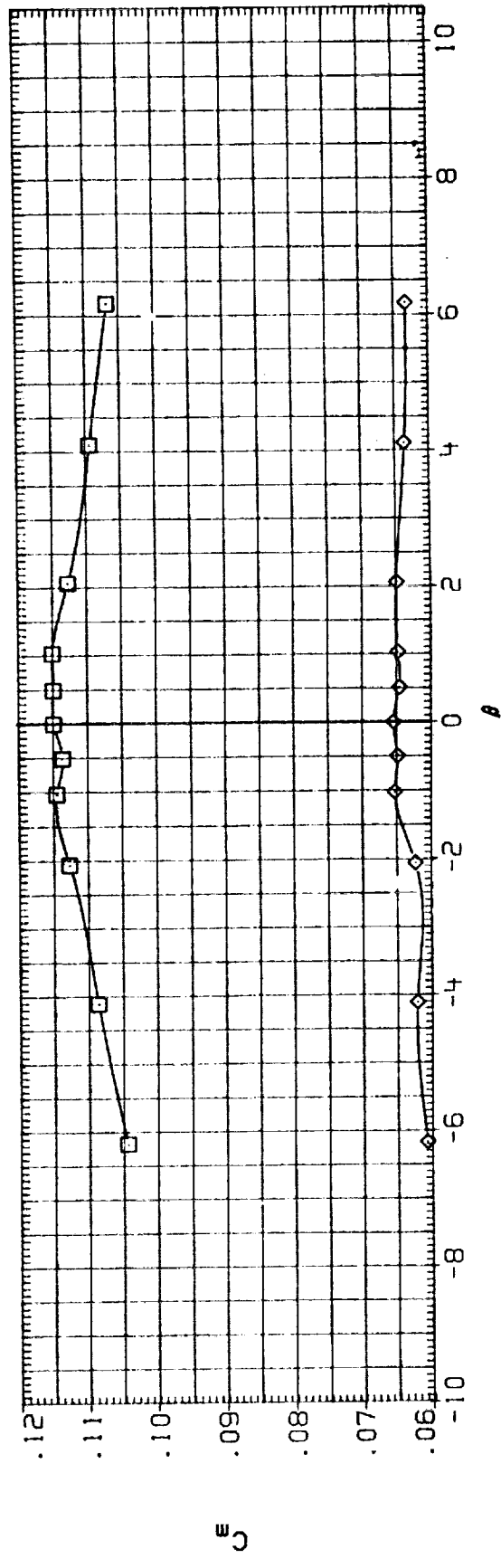
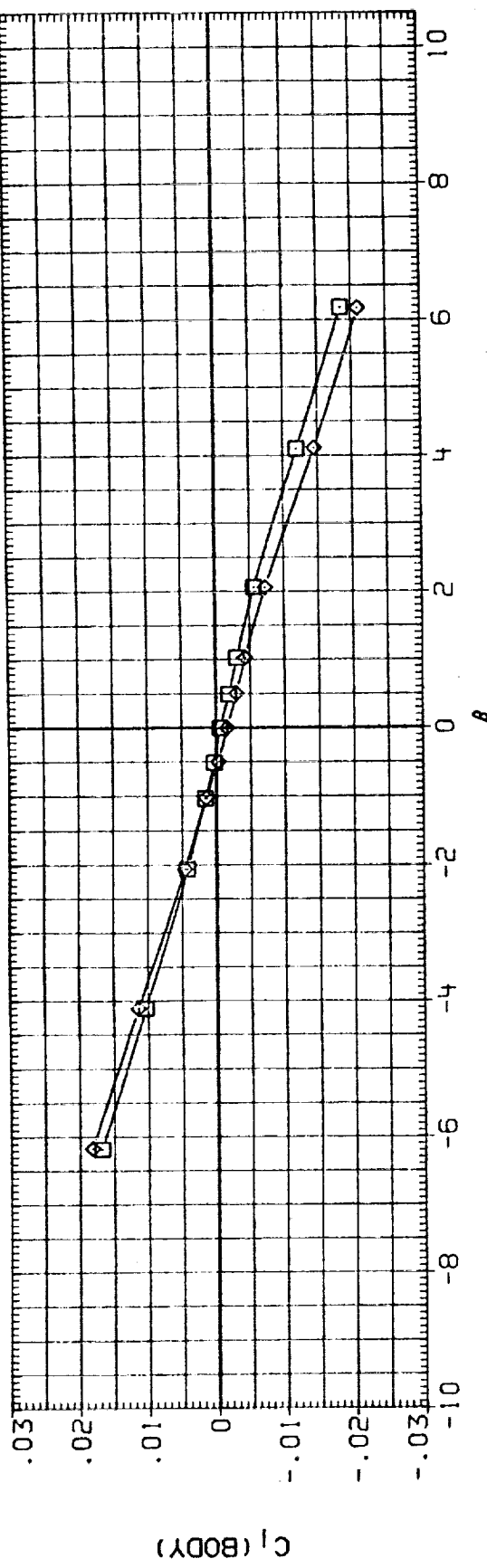


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

| | | | | | | | | |
|----------|--|--------|-------|---------|--------|------|-----------|--------|
| (RUK057) | DATA NOT AVAILABLE | ALPHA | RN/L | ELEVON | AILRON | SREF | 2690.0000 | SQ.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | -10.000 | .000 | LREF | 474.8000 | INCHES |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | BREF | 936.6800 | INCHES |
| (RUK064) | DATA NOT AVAILABLE | 10.000 | 4.500 | -10.000 | .000 | XMRP | 1076.7000 | IN. XO |
| (RUK066) | DATA NOT AVAILABLE | 15.000 | 4.500 | -10.000 | .000 | ZMRP | .0000 | IN. YO |
| | | 20.000 | 4.500 | -10.000 | .000 | | 375.0000 | IN. ZO |

SCALE .0150

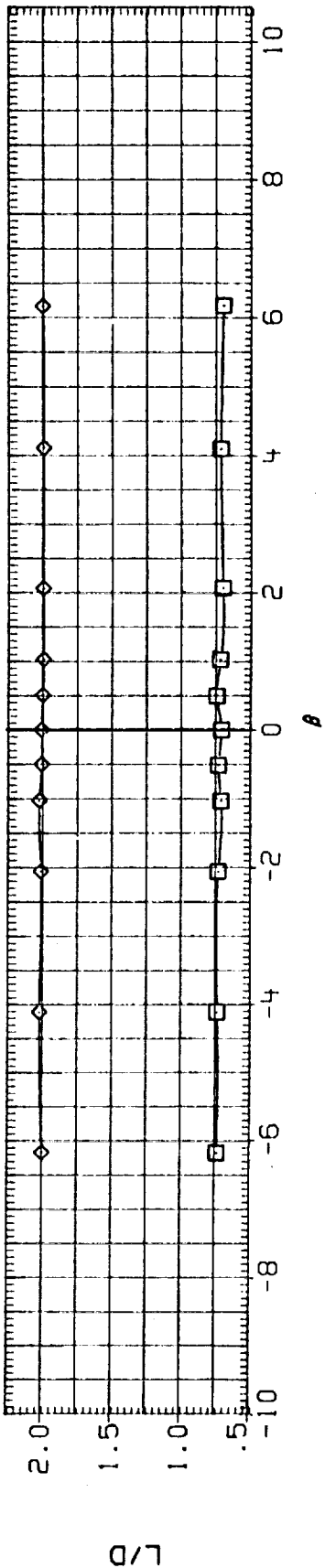
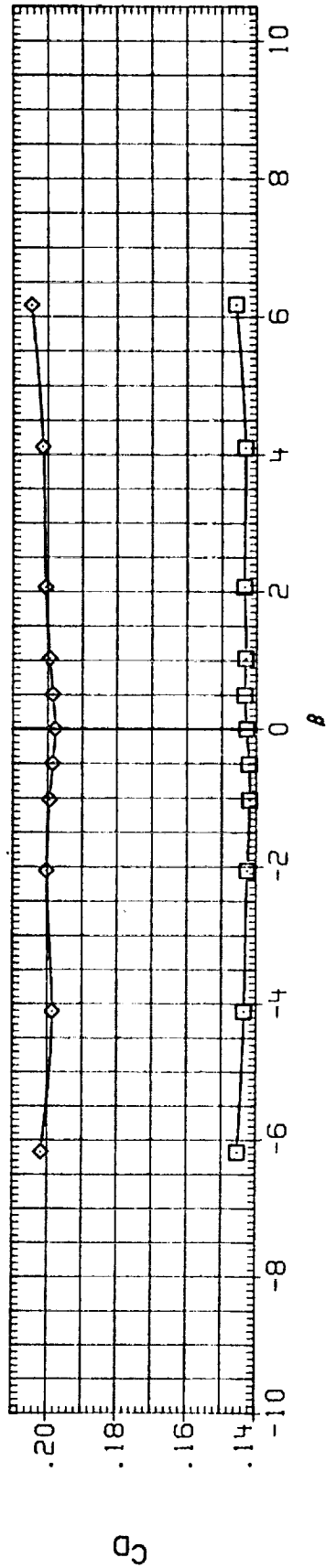
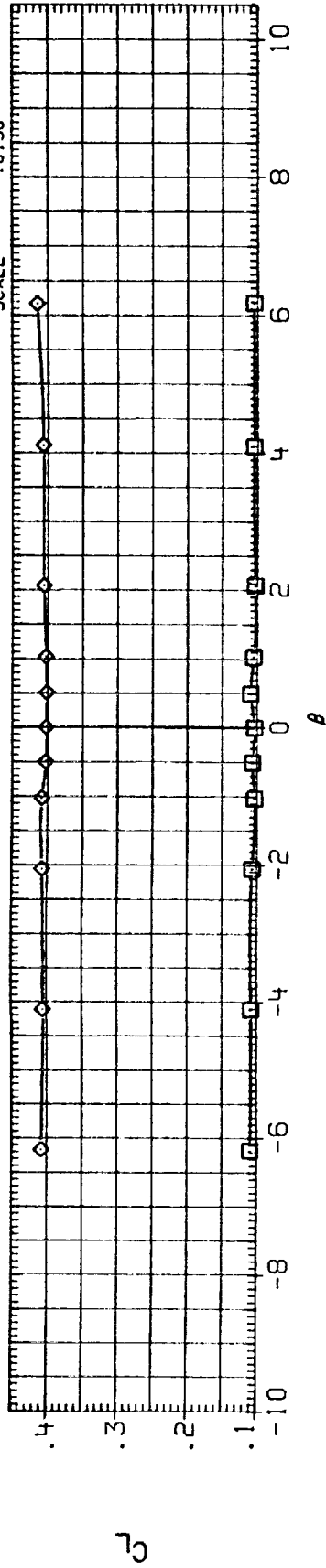


FIG. 33 YAW POLARS, ELEVON = -10

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK057) DATA NOT AVAILABLE

(CUK059) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK061) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK064) DATA NOT AVAILABLE

(CUK066) DATA NOT AVAILABLE

ALPHA RV/L ELEVON AILTRON

.000 4.500 -10.000 .000

5.000 4.500 -10.000 .000

10.000 4.500 -10.000 .000

15.000 4.500 -10.000 .000

20.000 4.500 -10.000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

EREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

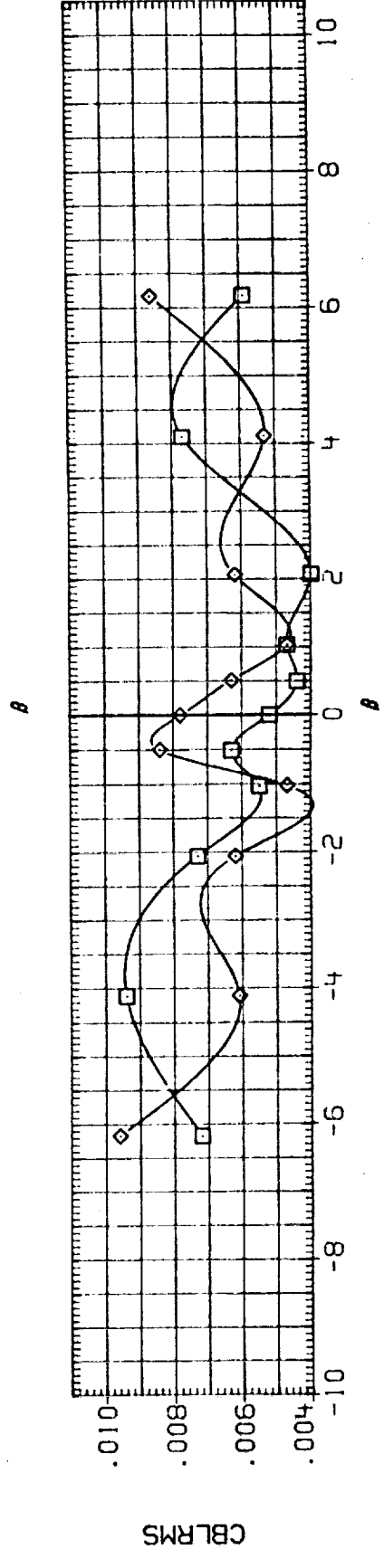
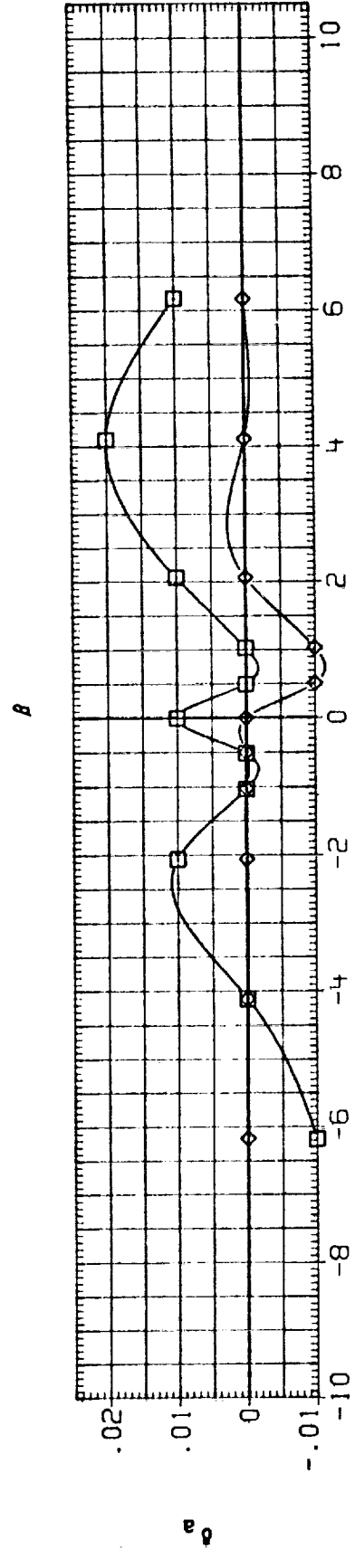
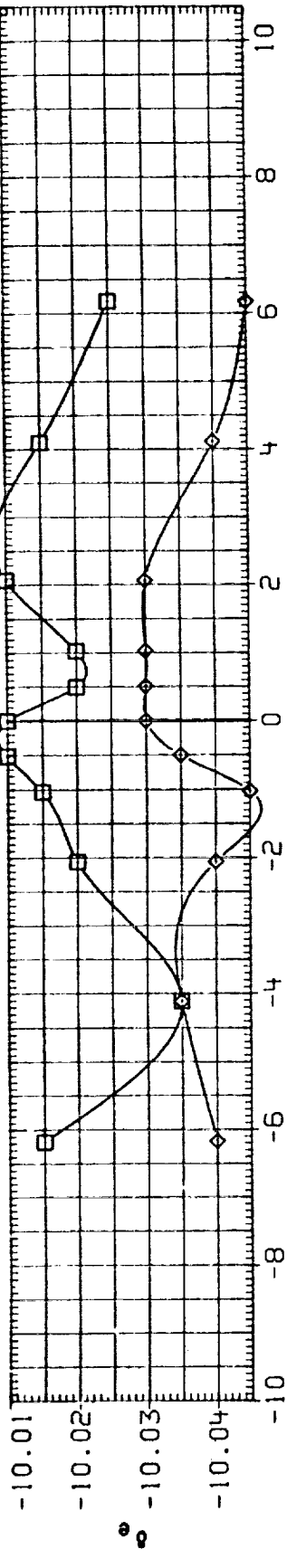


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .98

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILERON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|---------|---------|------------------------|
| (RUK057) | □ | DATA NOT AVAILABLE | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SQ. FT. |
| (RUK059) | ○ | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK061) | ◇ | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK064) | △ | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | XMRP 1076.7000 IN. YO |
| (RUK065) | ▽ | DATA NOT AVAILABLE | 20.000 | 4.500 | -10.000 | .000 | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

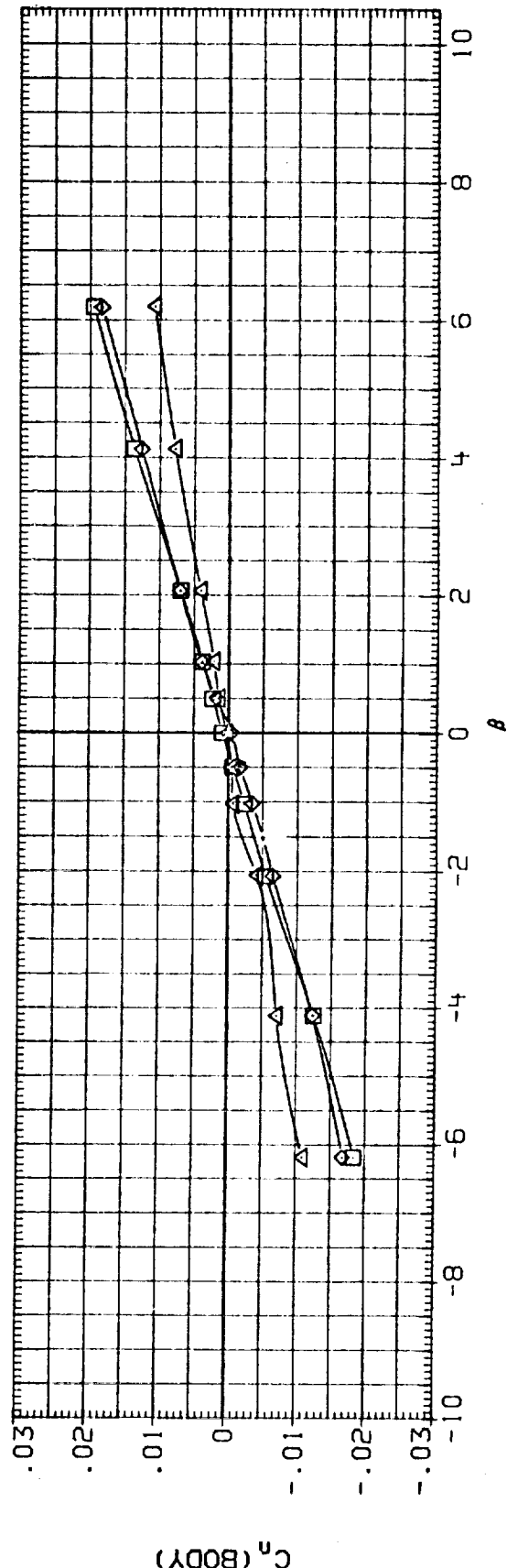
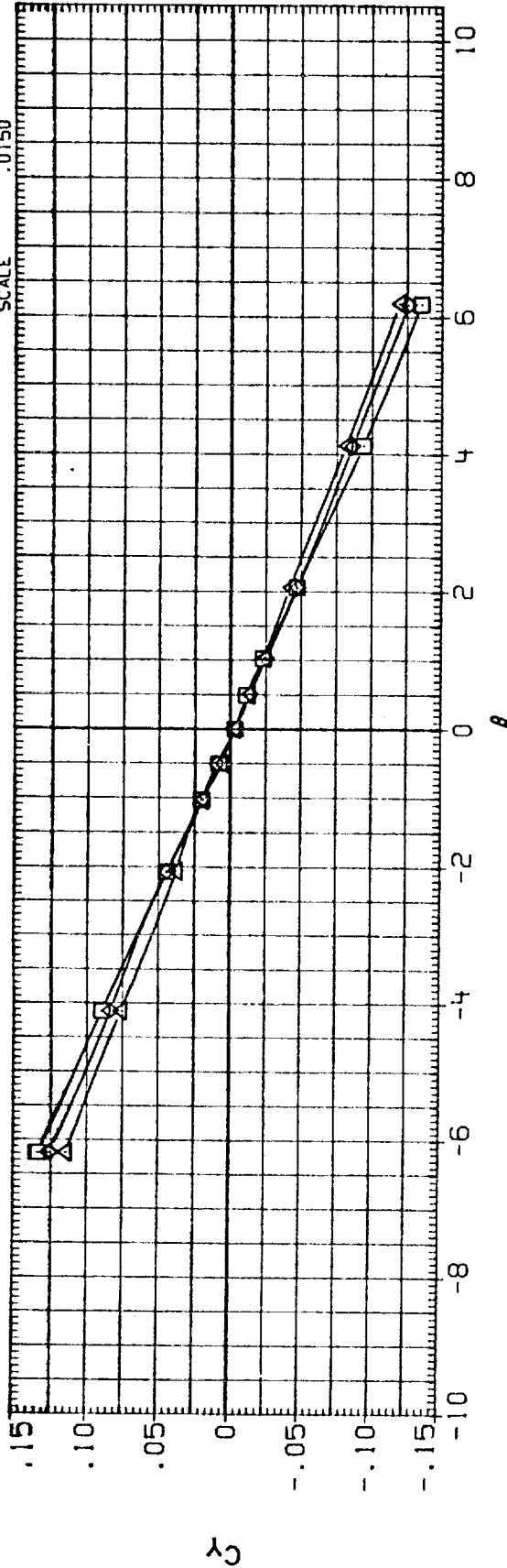


FIG. 33 YAW POLARS, ELEVON = -10

| | | | | | | |
|------------------------|--|--------------|-------------|---------------|----------------|------------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILIRON | REFERENCE INFORMATION |
| (RUK057) | DATA NOT AVAILABLE | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK066) | DATA NOT AVAILABLE | 20.000 | 4.500 | -10.000 | .000 | ZMRP 375.0000 IN. YO |

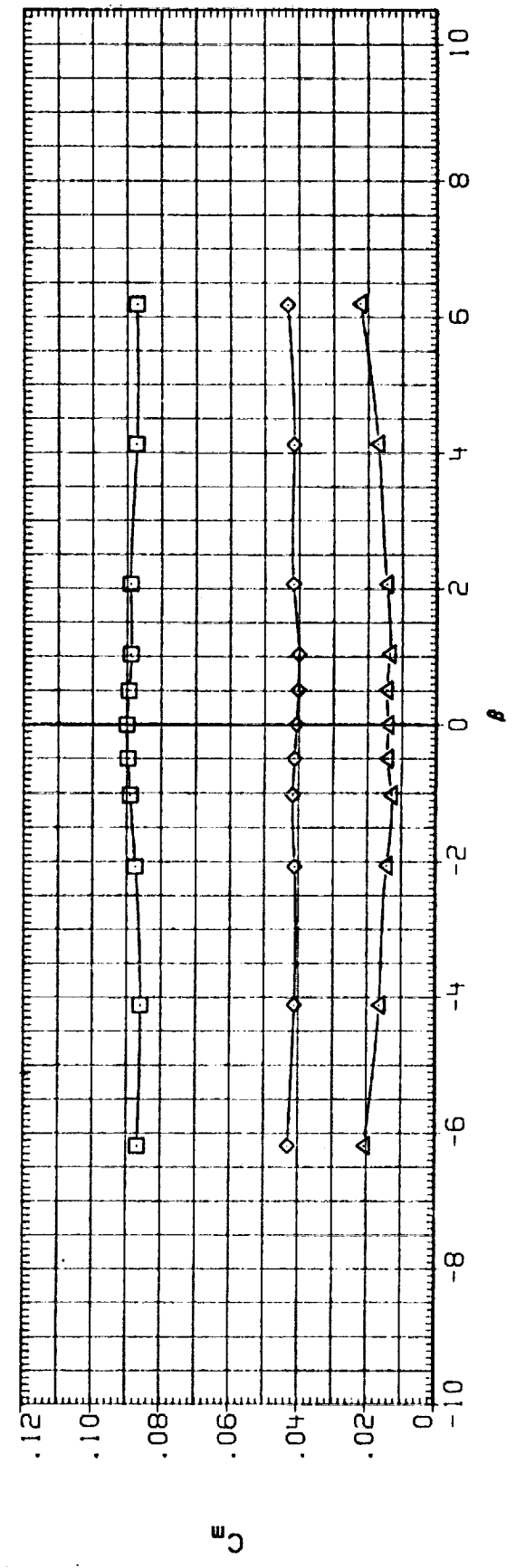
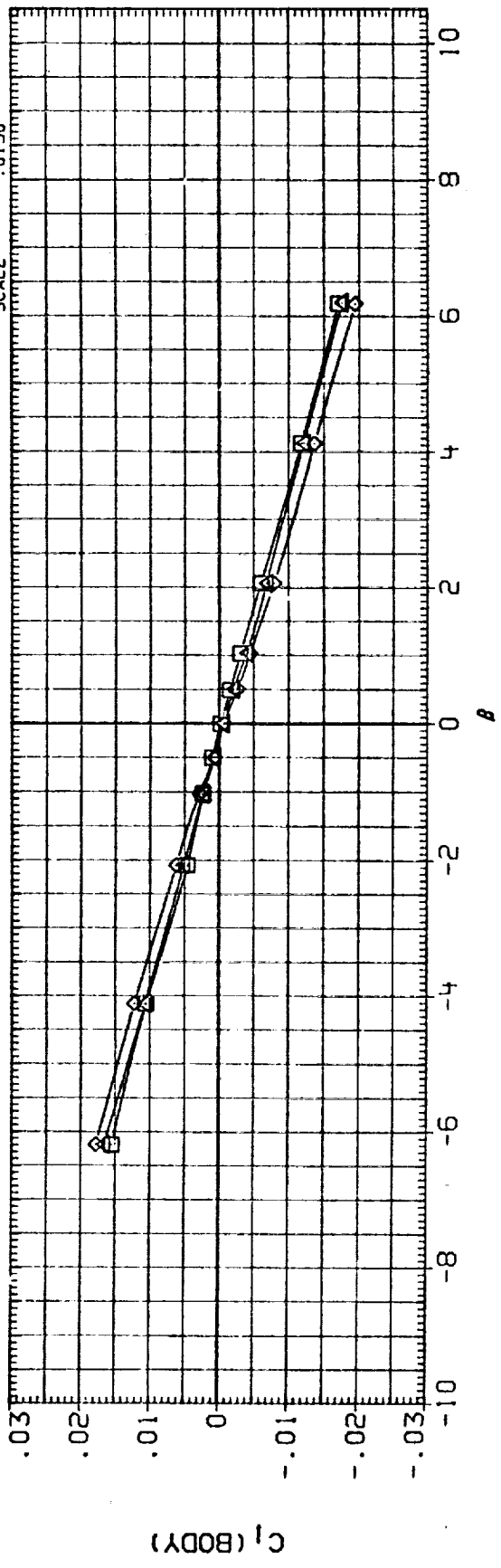


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = 1.05

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|---------|--------|-----------------------|
| (RUK057) | DATA NOT AVAILABLE | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | -10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK066) | DATA NOT AVAILABLE | 20.000 | 4.500 | -10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

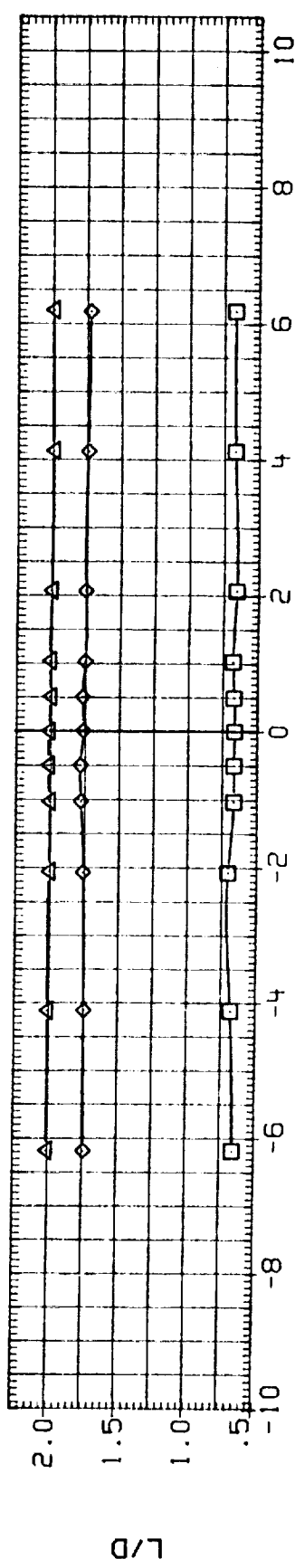
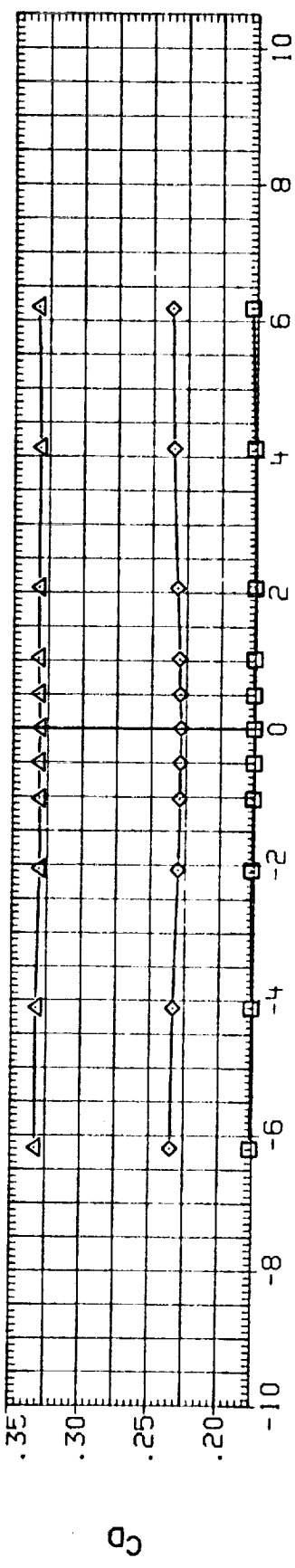
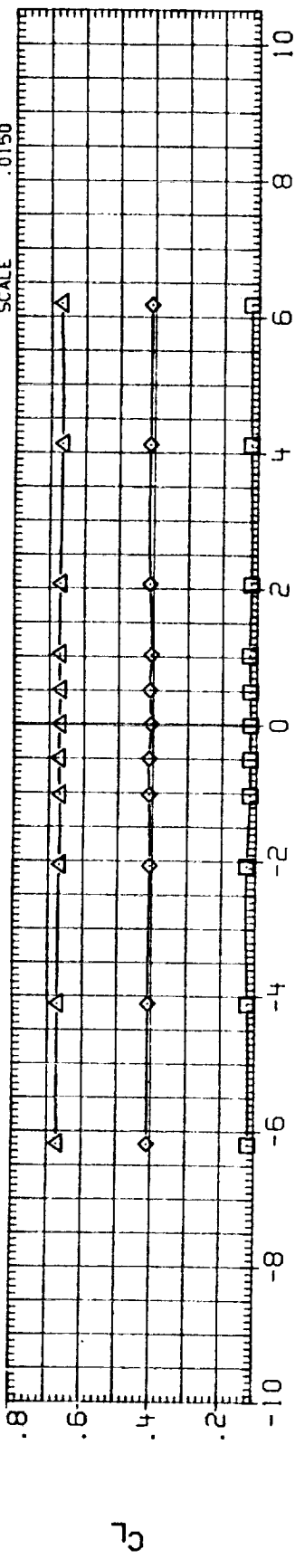


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = 1.05

| | | | | | | |
|-----------------|--|--------|-------|---------|--------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (CUK057) | DATA NOT AVAILABLE | .000 | 4.500 | -10.000 | .000 | SREF 2690.0000 SO. FT. |
| (CUK059) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 5.000 | 4.500 | -10.000 | .000 | LREF 474.8000 INCHES |
| (CUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 10.000 | 4.500 | -10.000 | .000 | BREF 936.6800 INCHES |
| (CUK064) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 15.000 | 4.500 | -10.000 | .000 | YMRF 1076.7000 IN. XO |
| (CUK066) | DATA NOT AVAILABLE | 20.000 | 4.500 | -10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

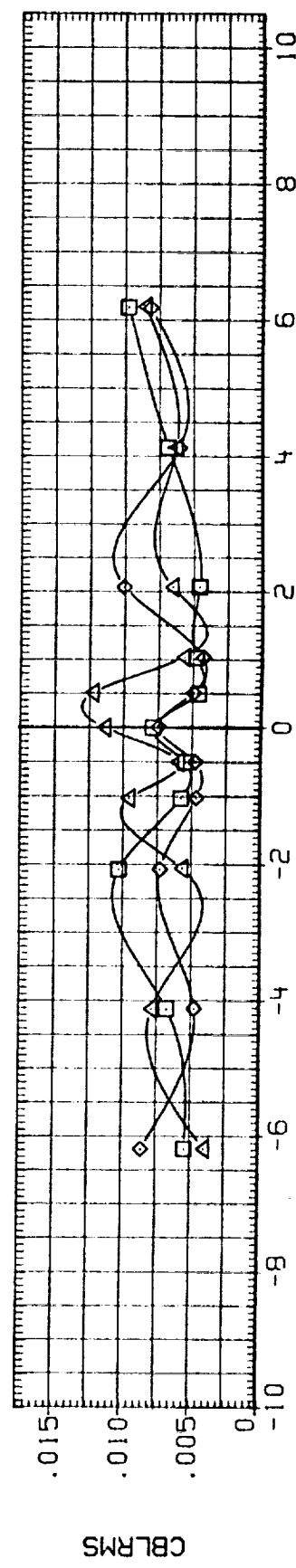
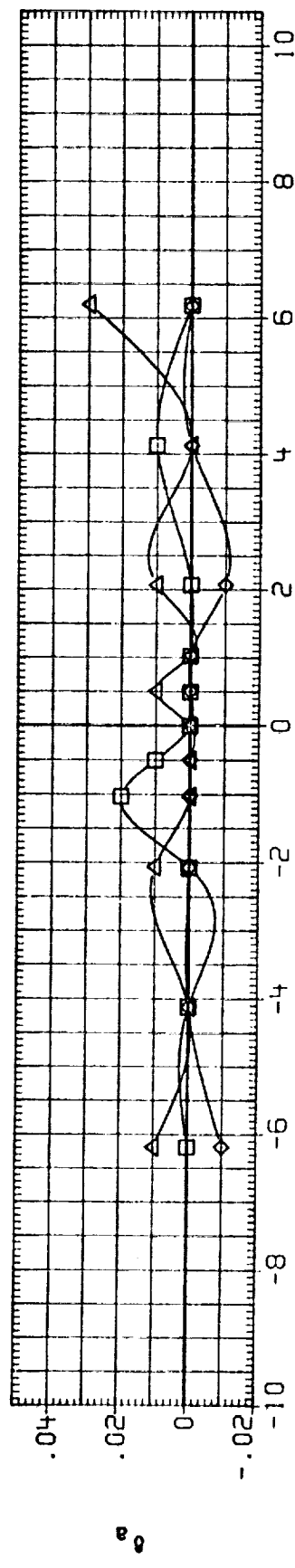
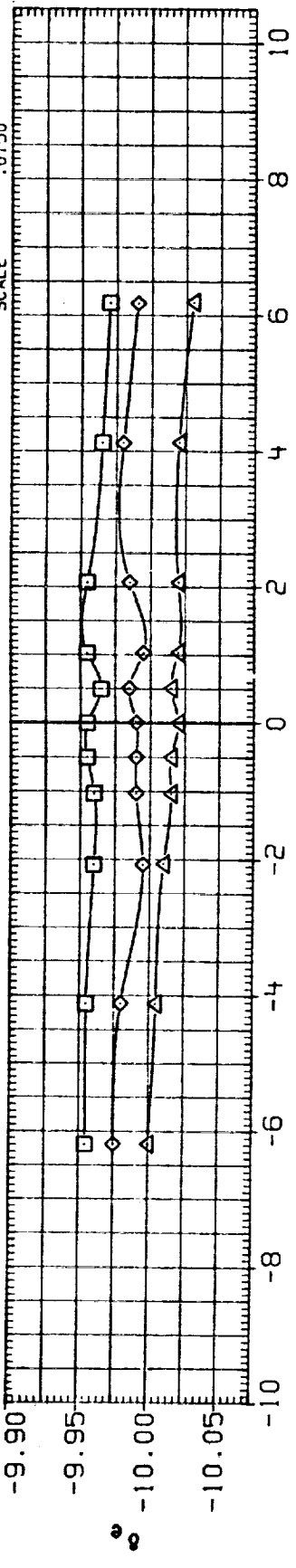


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = 1.05

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILERON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|---------|---------|-----------------------|
| (RUK058) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | .000 | 4.000 | -10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK060) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 5.000 | 4.000 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK062) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 10.000 | 4.000 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK065) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 15.000 | 4.000 | -10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK067) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 20.000 | 4.000 | -10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

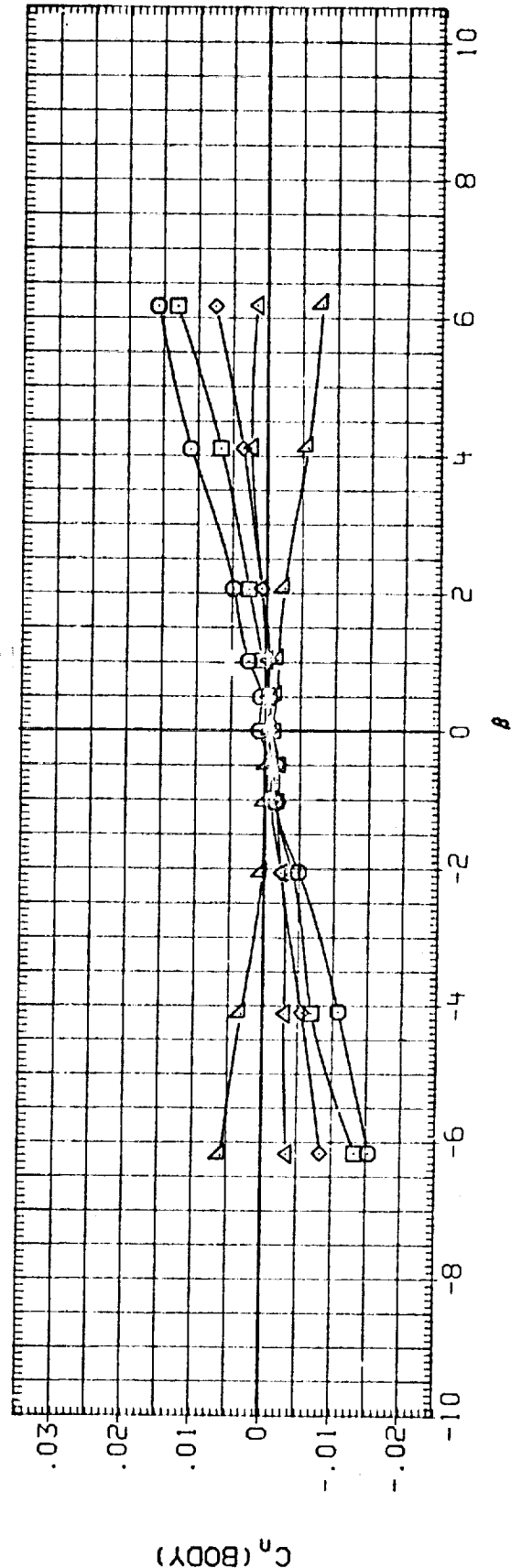
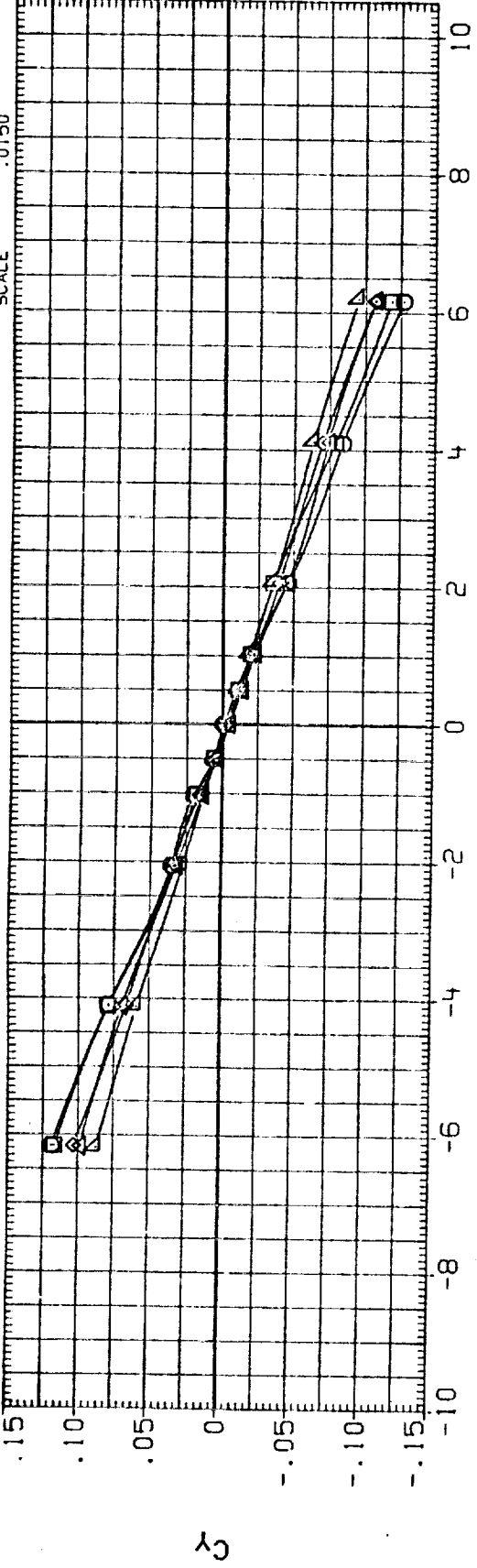


FIG. 33 YAW POLARS, ELEVON = -10

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|---------|--------|-----------------------|
| (RUK058) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.000 | -10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK060) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.000 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK062) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.000 | -10.000 | .000 | BREF 936.6800 INCHES |
| (RUK065) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.000 | -10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK067) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.000 | -10.000 | .000 | YMRP 375.0000 IN. YO |

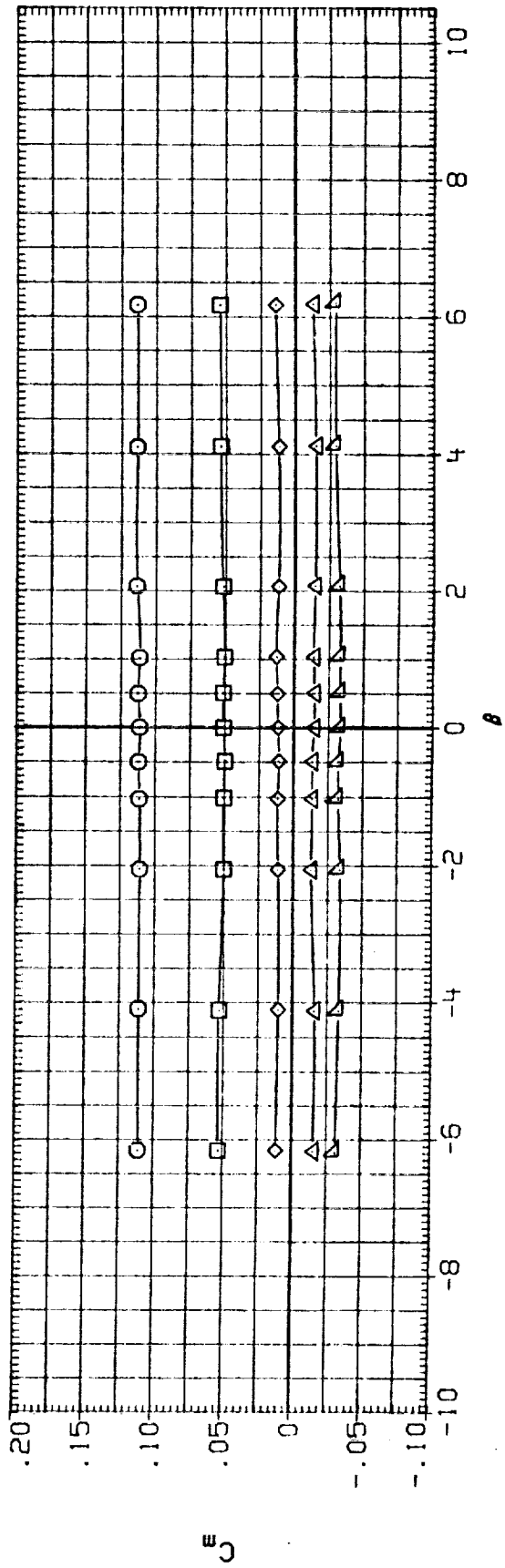
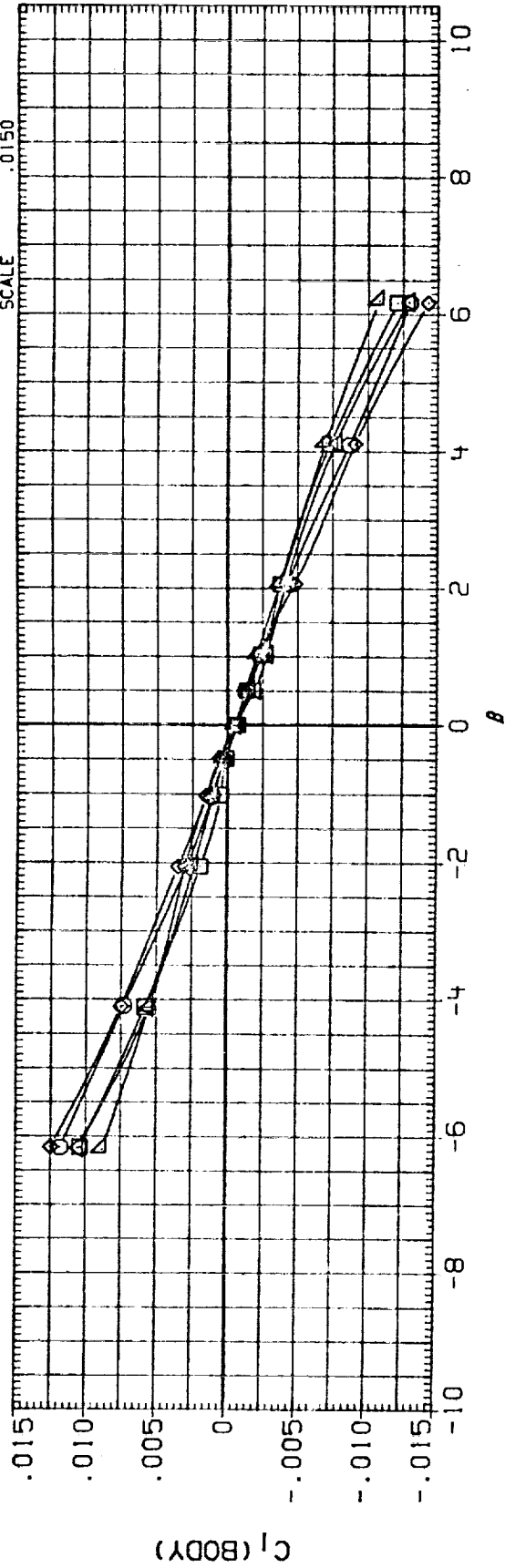


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = 1.20

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|---------|--------|-----------------------|
| (RUK058) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.000 | -10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK060) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.000 | -10.000 | .000 | LREF 474.8000 INCHES |
| (RUK062) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.000 | -10.000 | .000 | BREF 936.5800 INCHES |
| (RUK065) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.000 | -10.000 | .000 | XMRP 1076.7000 IN. X0 |
| (RUK067) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.000 | -10.000 | .000 | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |

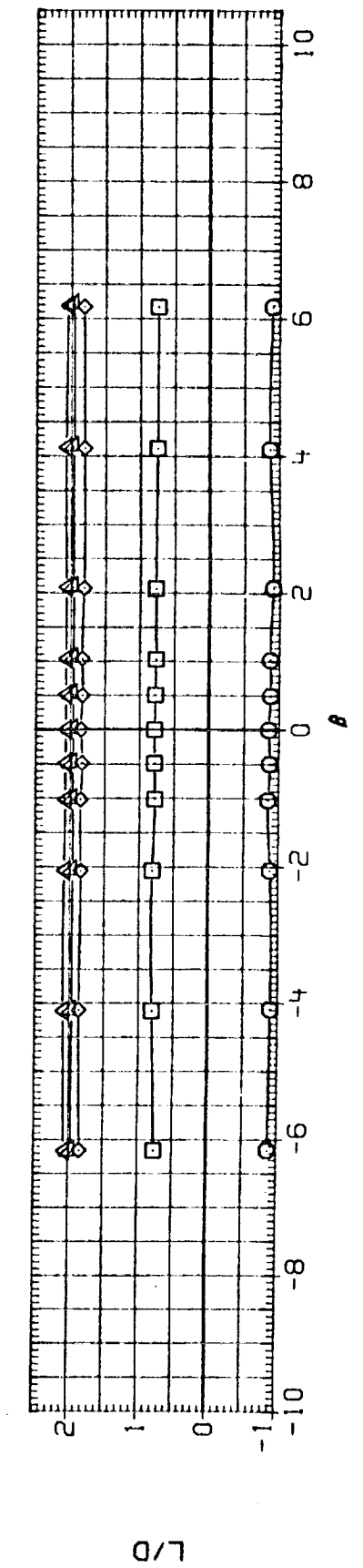
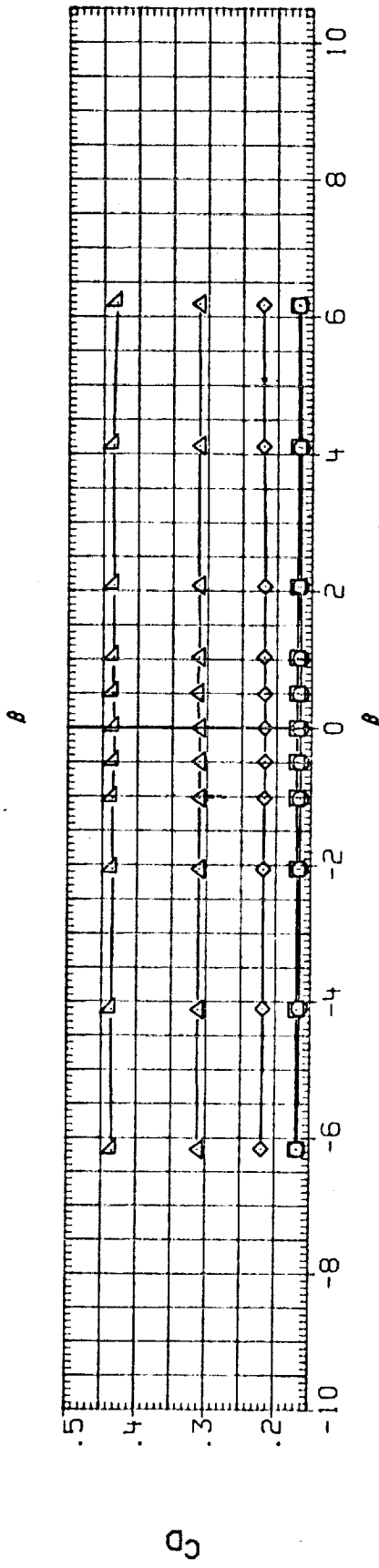
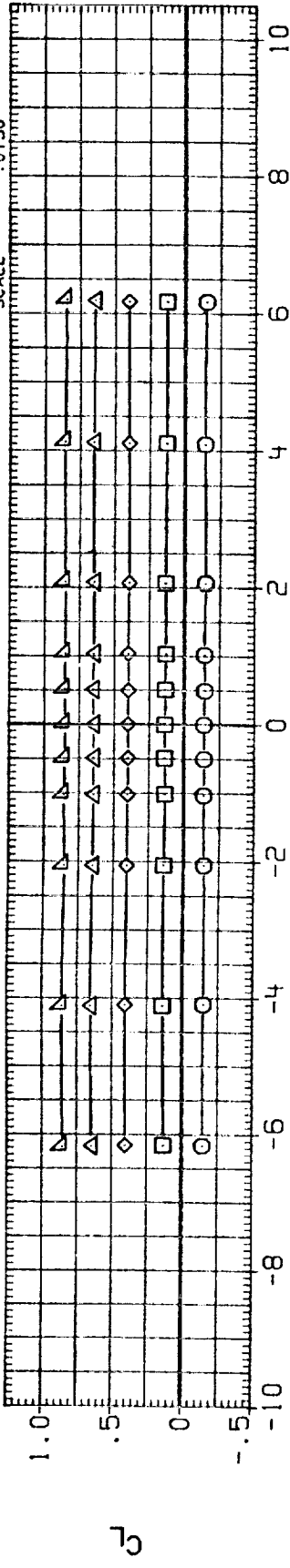


FIG. 33 YAW POLARS, ELEVON = -10

| | | | | | | |
|------------------------|--|--------------|-------------|---------------|---------------|------------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | A1LRON | REFERENCE INFORMATION |
| (CUK058) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.000 | -10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK060) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.000 | -10.000 | .000 | LREF 474.8000 INCHES |
| (CUK062) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.000 | -10.000 | .000 | BREF 936.6800 INCHES |
| (CUK065) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.000 | -10.000 | .000 | XMRP 1076.7000 IN. XO |
| (CUK067) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.000 | -10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

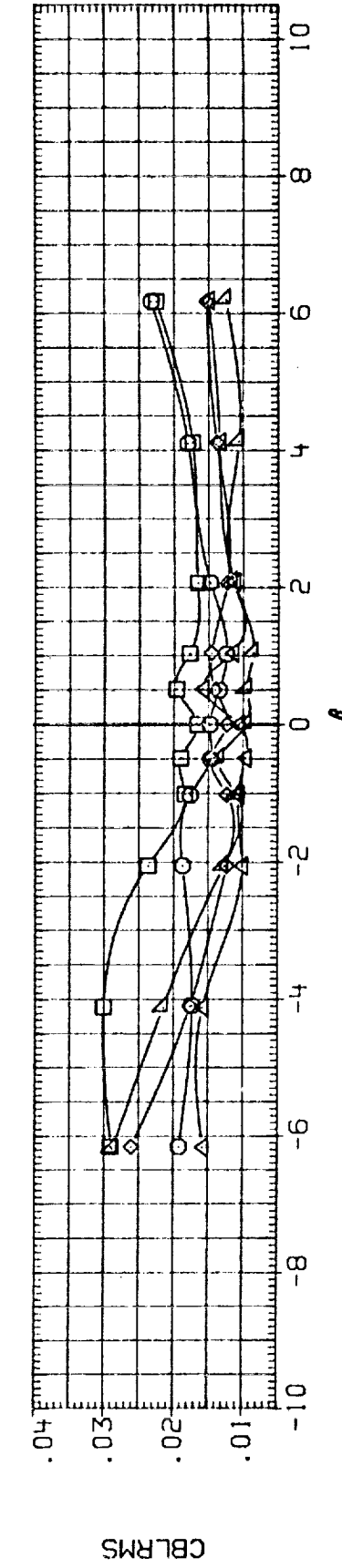
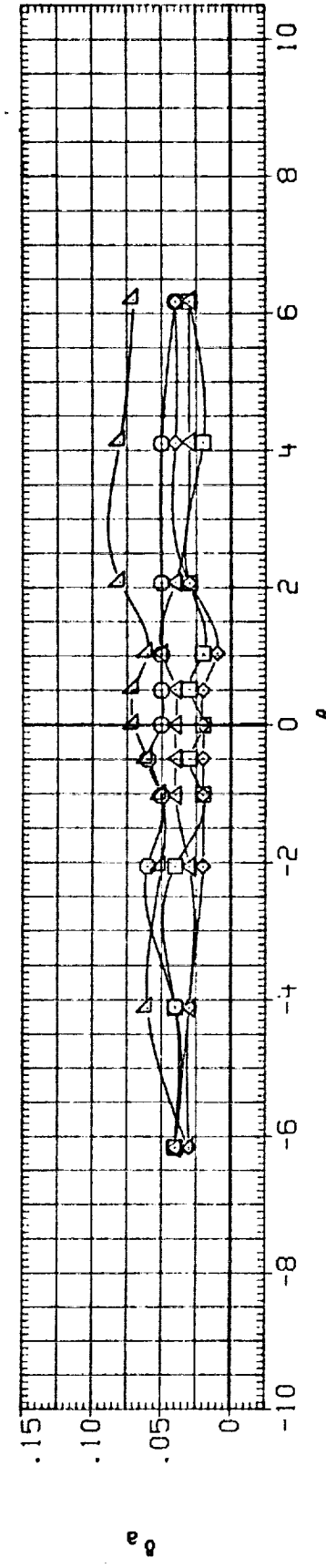
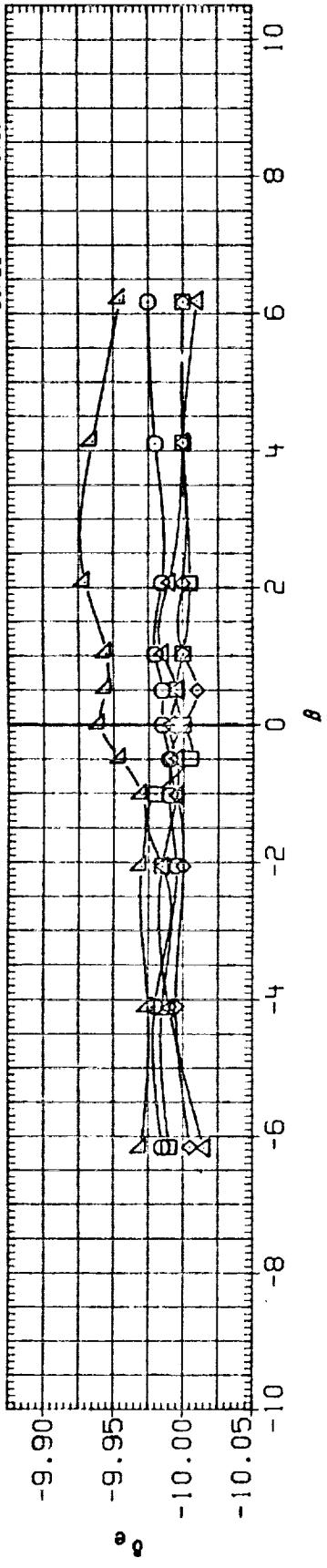


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = 1.20

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|------------------------|
| (RUK088) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SO. FT. |
| (RUK088) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK091) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK093) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | 10.000 | .000 | -XMRP 1076.7000 IN. XO |
| (RUK095) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | 10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

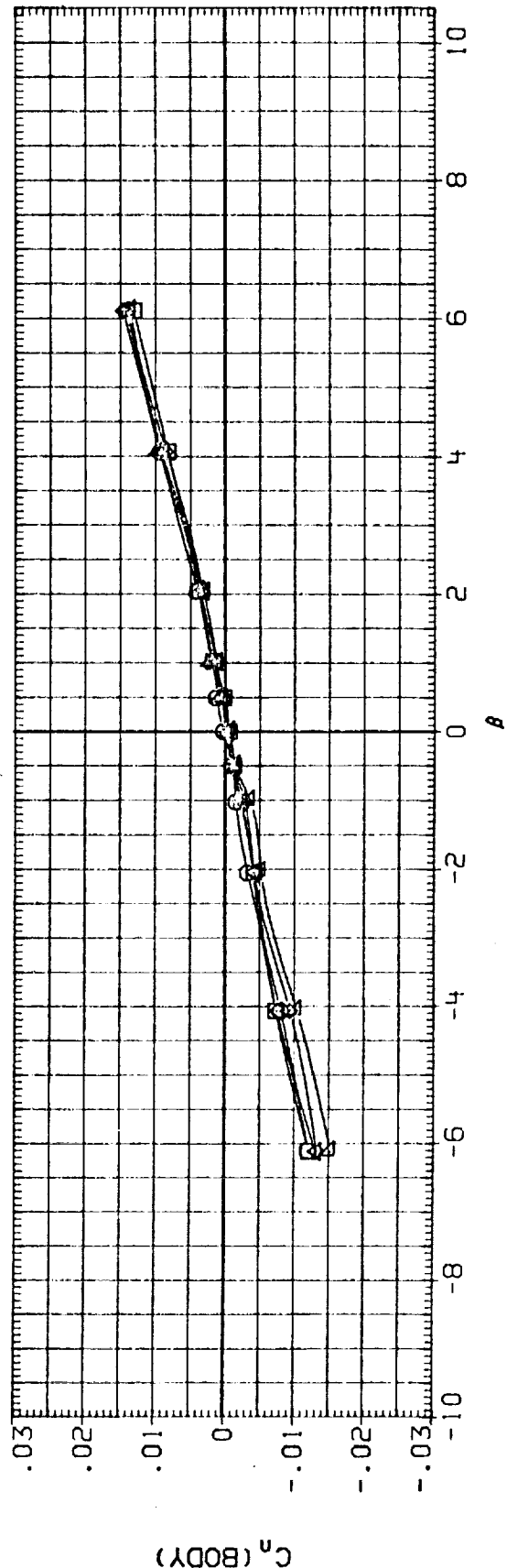
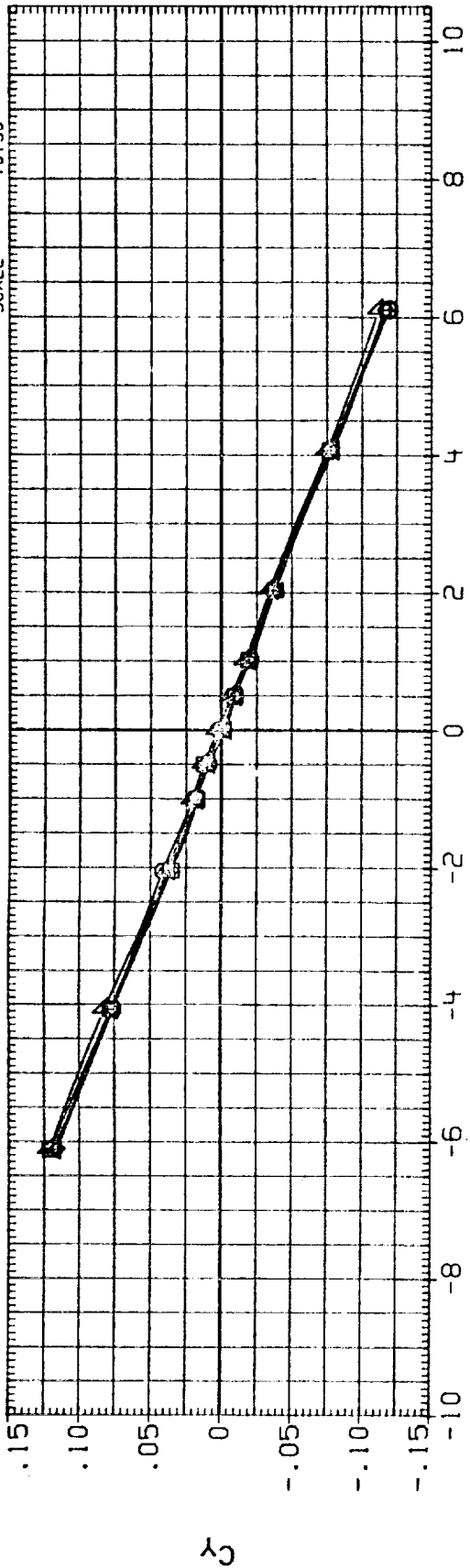


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .60

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RM/L | ELEVON | AILTRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|--------|---------|-----------------------|
| (RUK086) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | EREF 936.6800 INCHES |
| (RUK093) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK095) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | 10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |

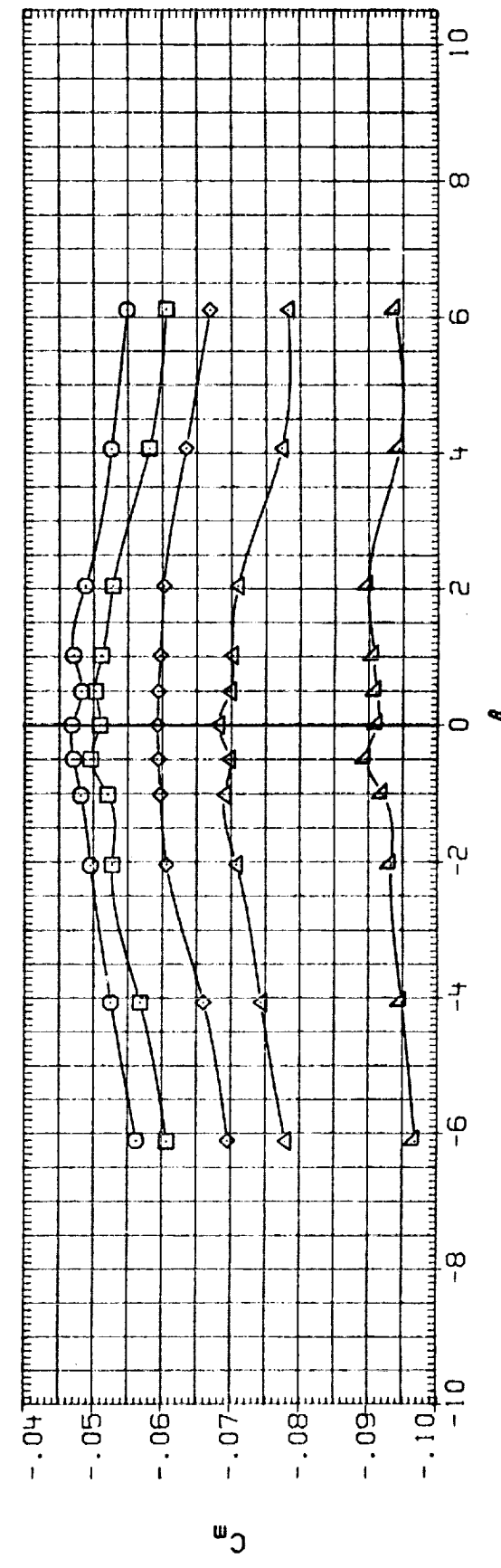
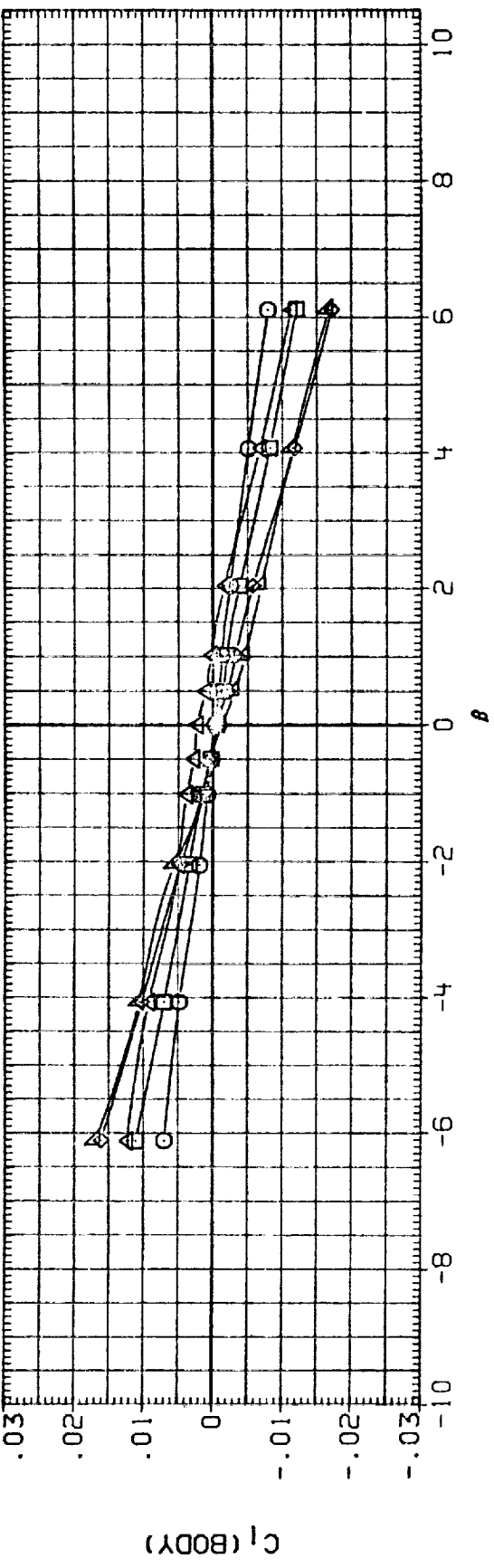


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION ALPHA RV/L ELEVON AIRLON REFERENCE INFORMATION

| | | | | | | | | | |
|----------|---|--|--------|-------|--------|------|-------|-----------|---------|
| (RUK086) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | SREF | 2690.0000 | SO. FT. |
| (RUK088) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | 10.000 | .000 | LREF | 474.8000 | INCHES |
| (RUK091) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | BREF | 936.6800 | INCHES |
| (RUK093) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | 10.000 | .000 | XMRP | 1076.7000 | IN. XO |
| (RUK095) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | 10.000 | .000 | YMRP | .0000 | IN. YO |
| | | | | | | | ZMRP | 375.0000 | IN. ZO |
| | | | | | | | SCALE | .0150 | |

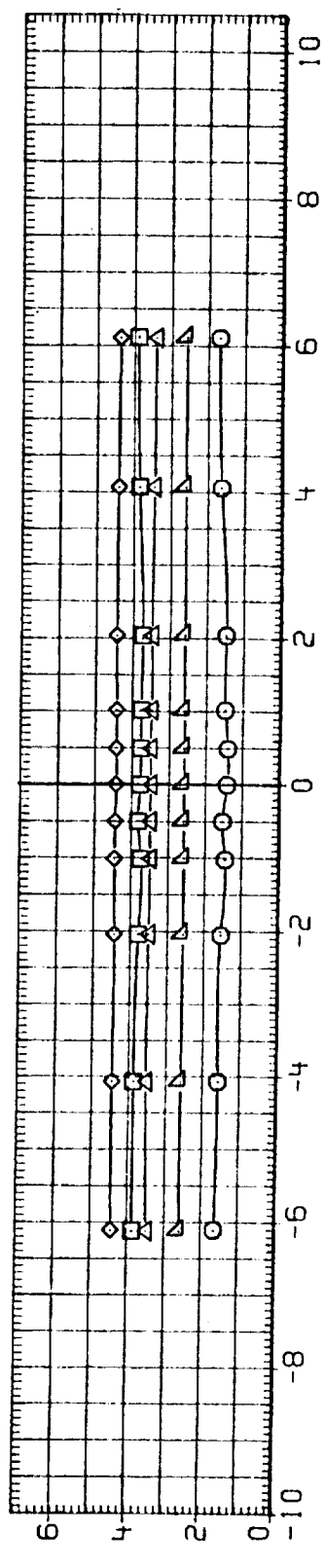
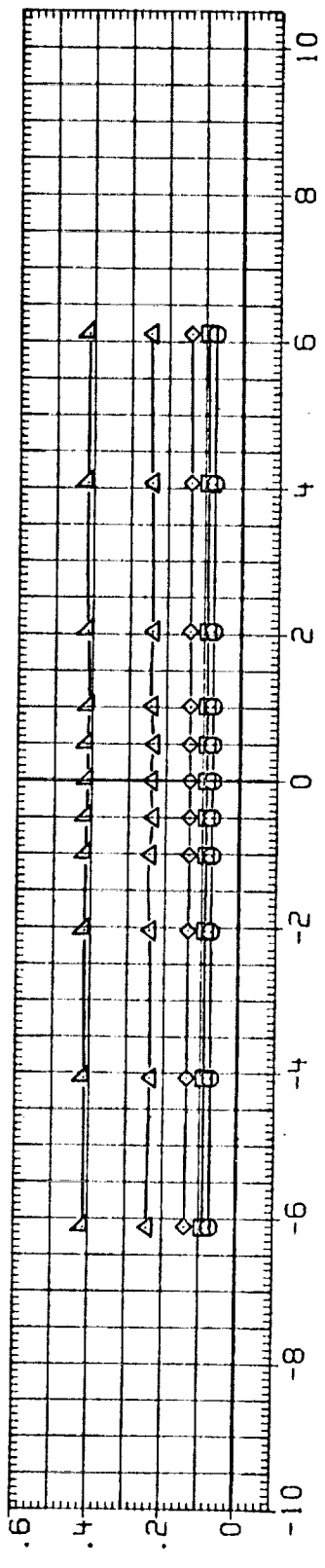
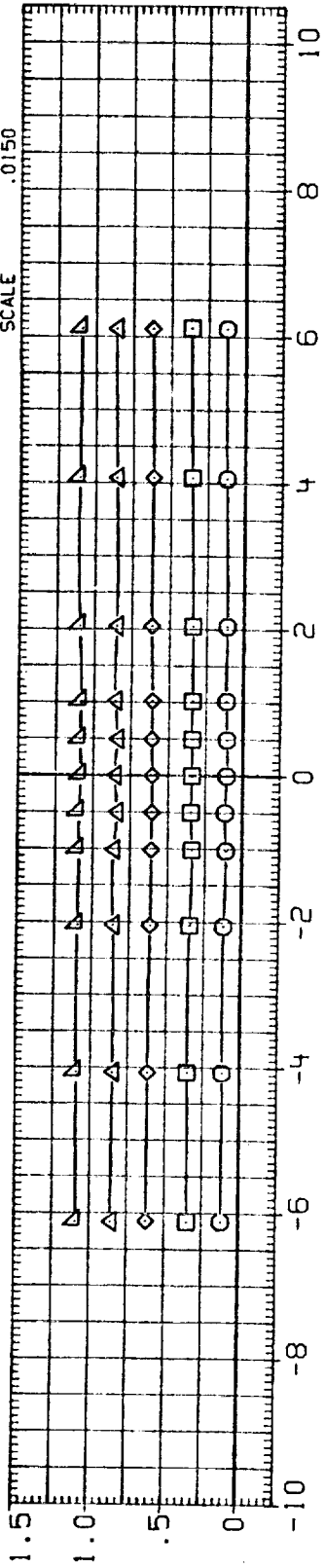


FIG. 34 YAW POLARS, ELEVON = 10

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RM/L | ELEVON | AIRLON | REFERENCE INFORMATION |
| (CUK085) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SO.FT. |
| (CUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (CUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (CUK093) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| (CUK095) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | 10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

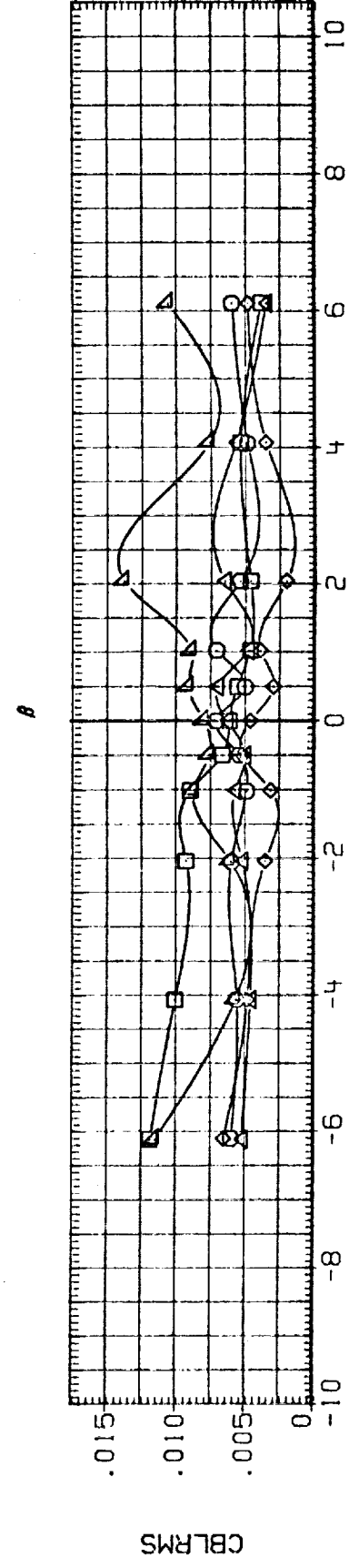
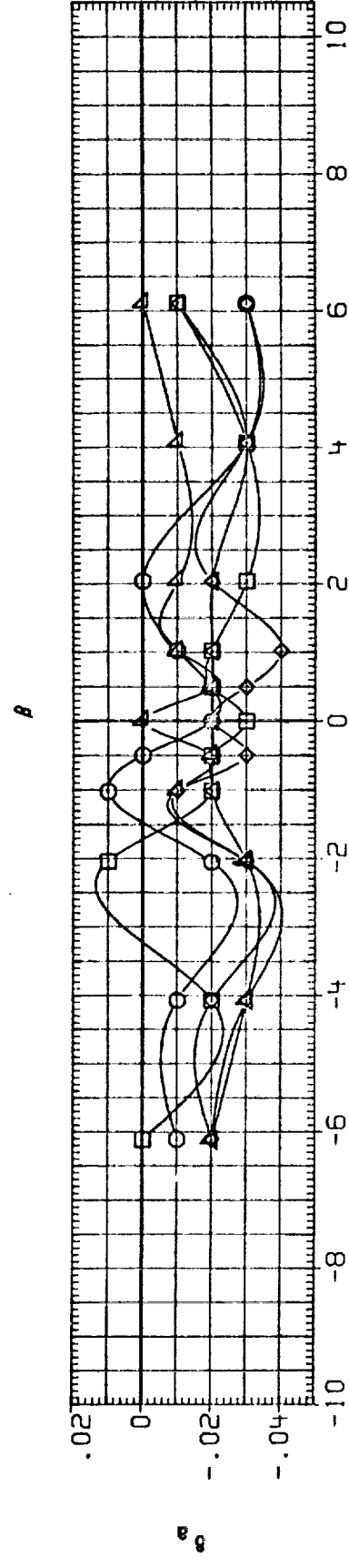
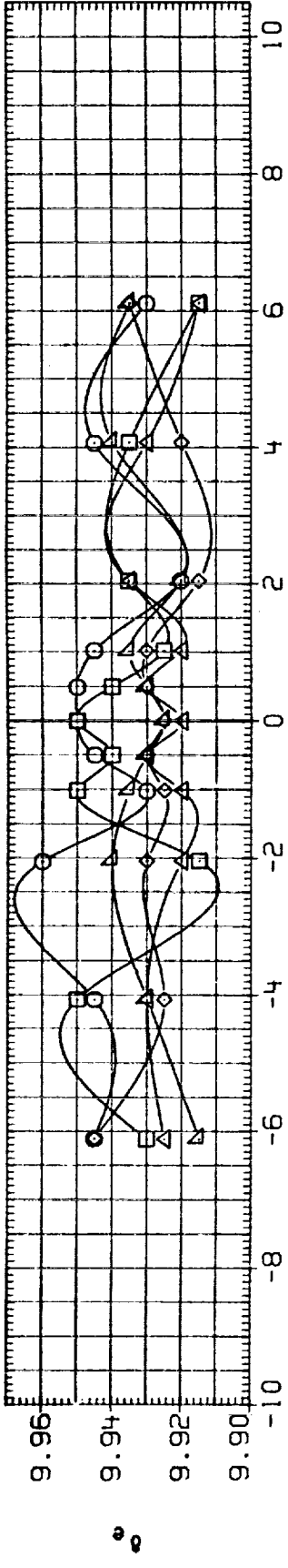


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|-----------------------|
| (RUK088) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK088) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK091) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK093) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK095) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | 10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

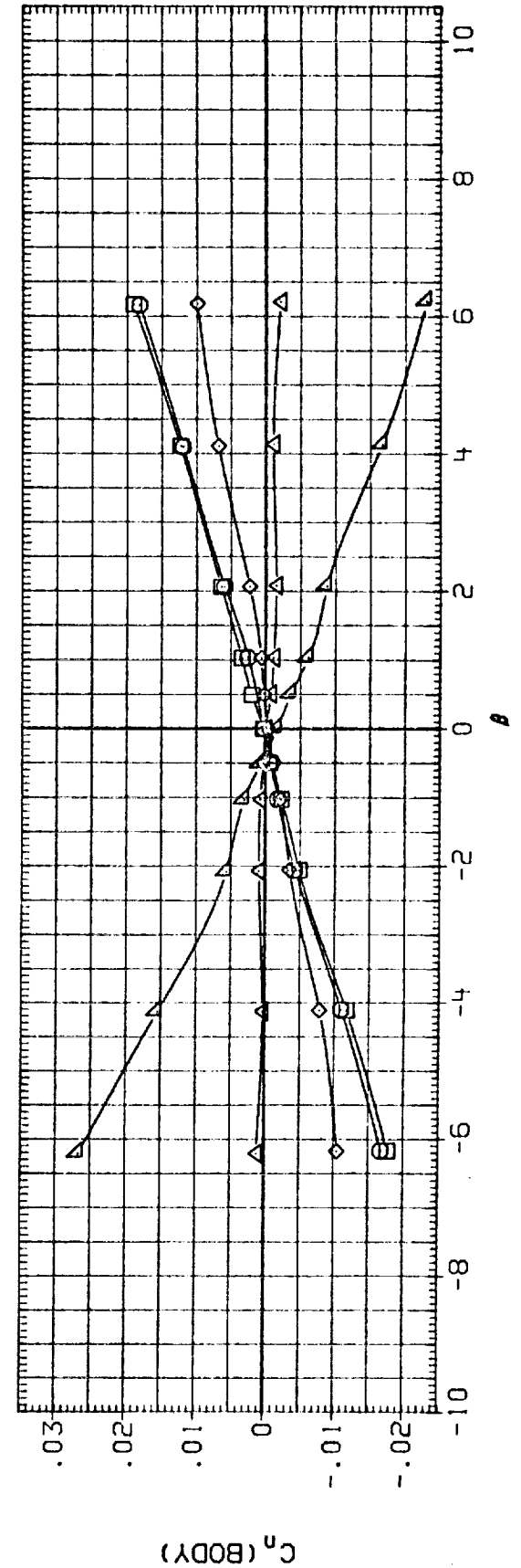
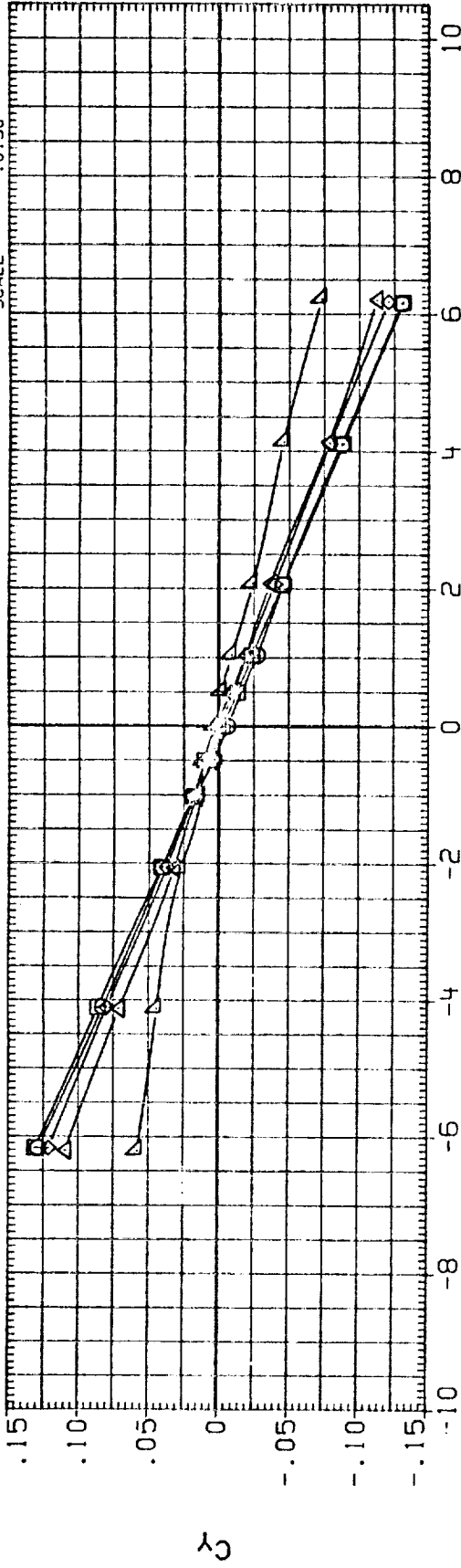


FIG. 34 YAW POLARS, ELEVON = 10

| | | | | | | |
|-----------------|--|--------|-------|--------|---------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILERON | REFERENCE INFORMATION |
| (RUK086) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK093) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | 10.000 | .000 | XTRP 1076.7000 IN. XO |
| (RUK095) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | 10.000 | .000 | YTRP .0000 IN. YO |
| | | | | | | ZTRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

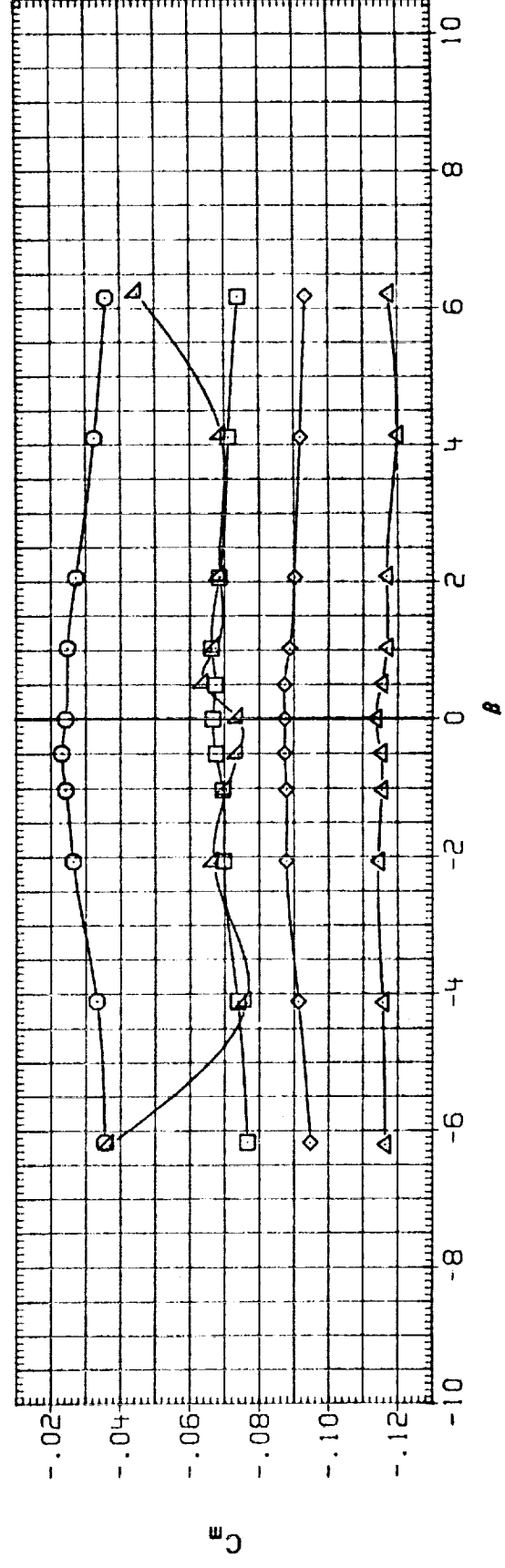
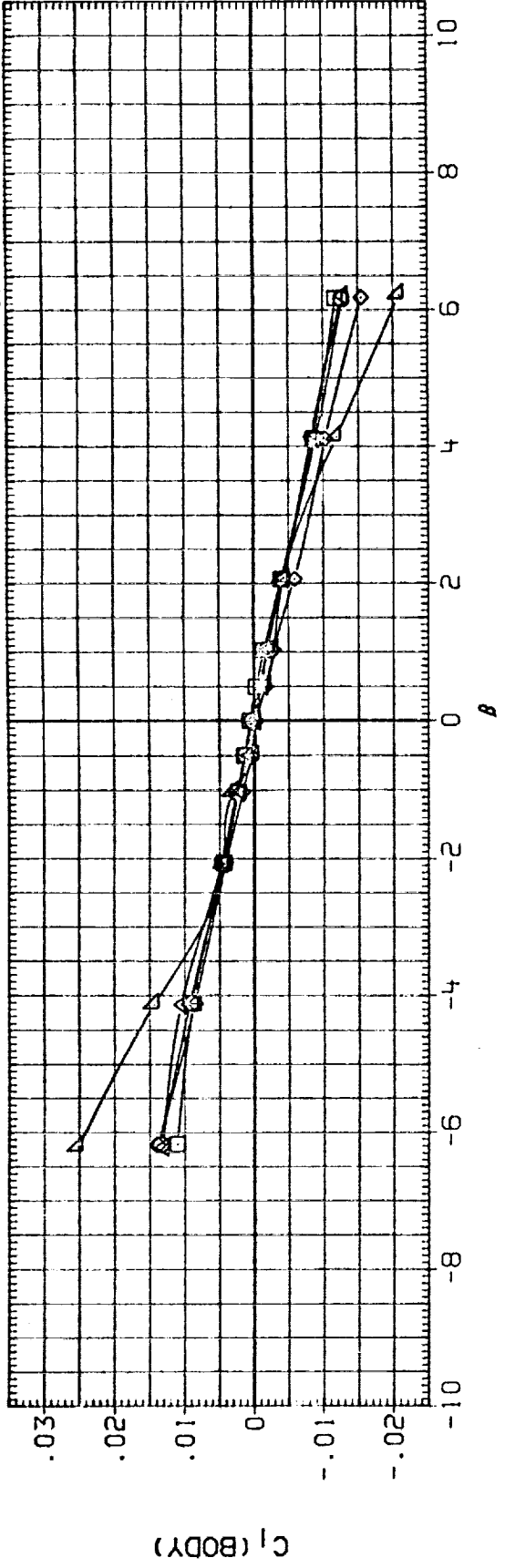


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|-----------------------|
| (RUK088) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK088) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK091) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK093) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK095) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | 10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

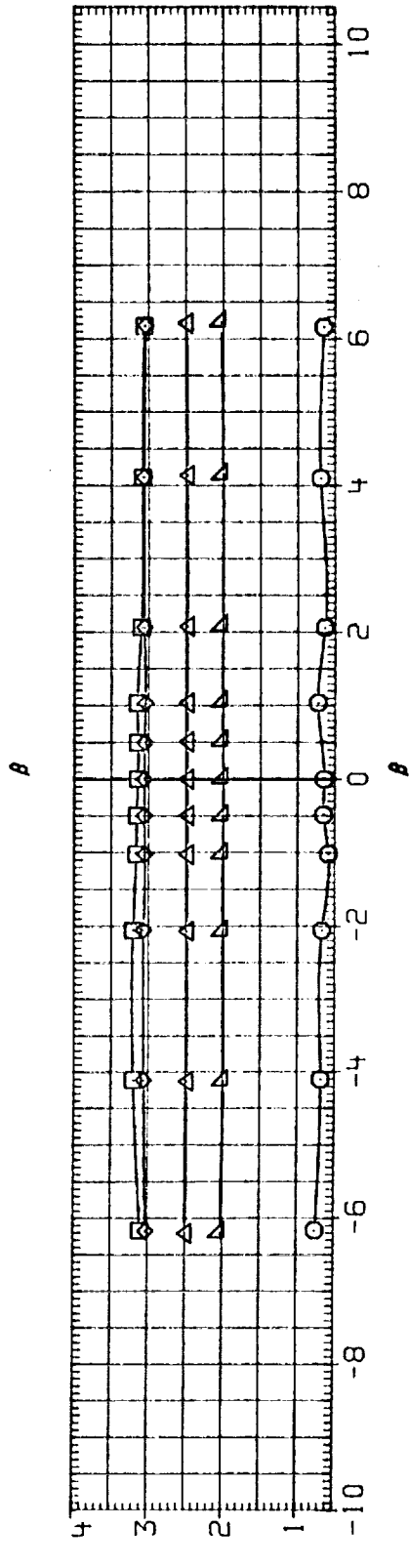
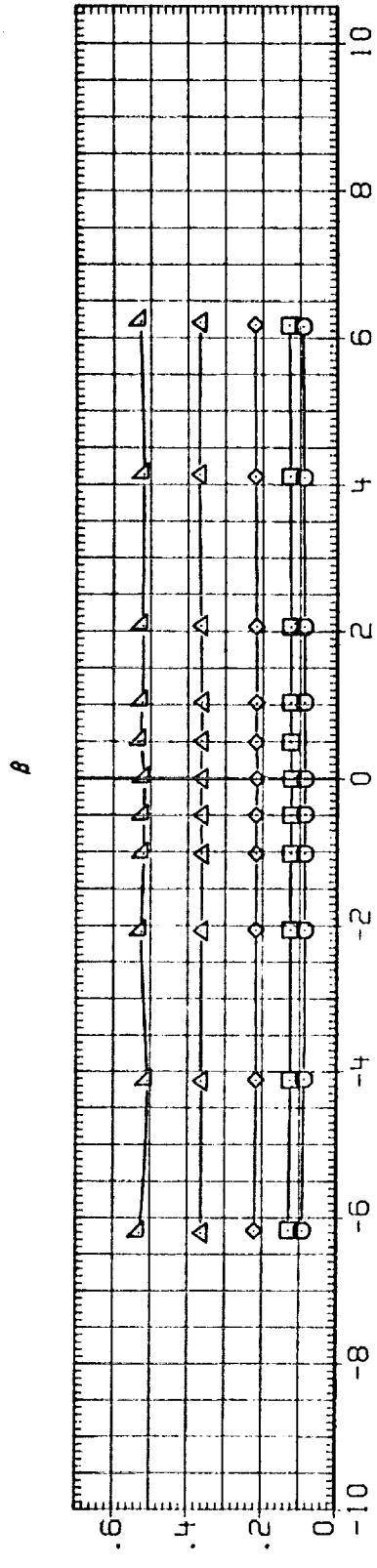
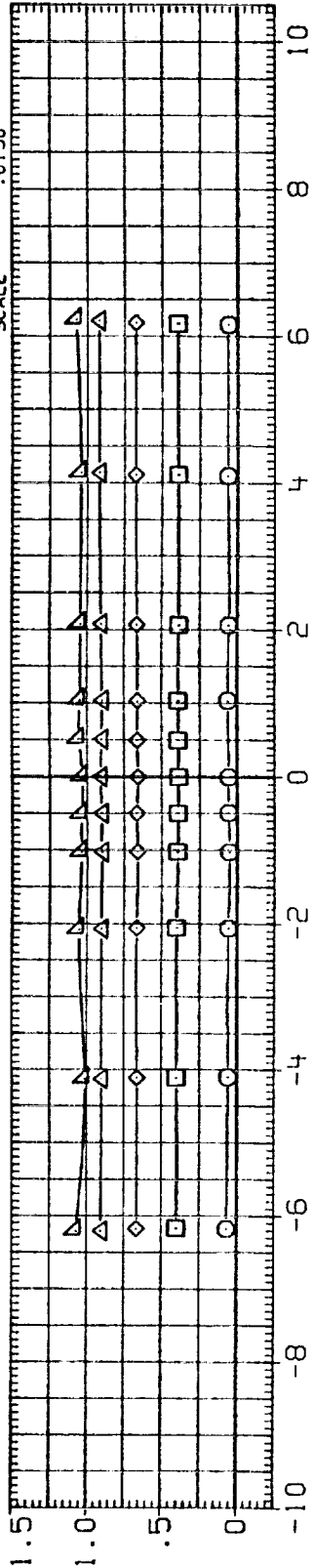


FIG. 34 YAW POLARS, ELEVON = 10

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| (CUK086) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (CUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (CUK093) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| (CUK095) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | 10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

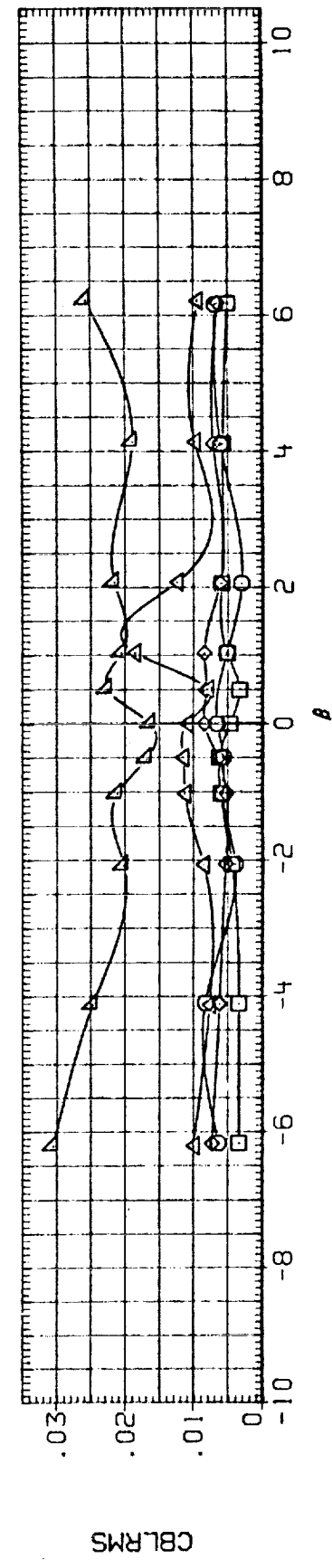
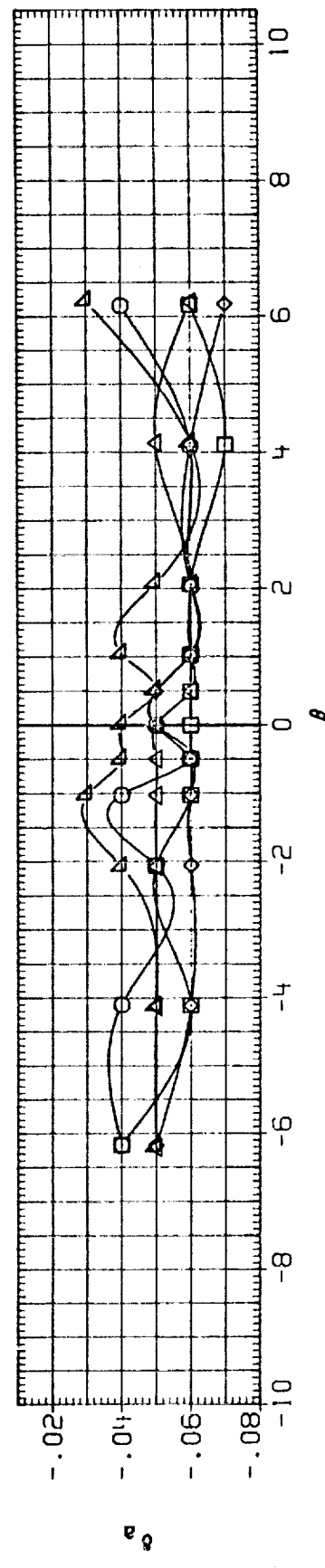
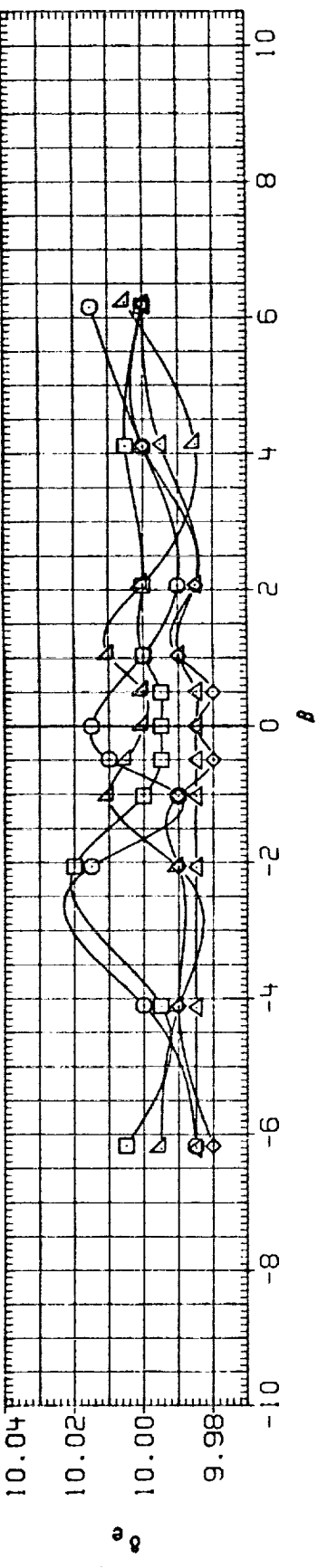


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .90

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|-----------------------|
| (RUK086) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 50.FT. |
| (RUK088) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK091) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 10.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK093) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 15.000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK095) | ▽ | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 20.000 | 4.500 | 10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

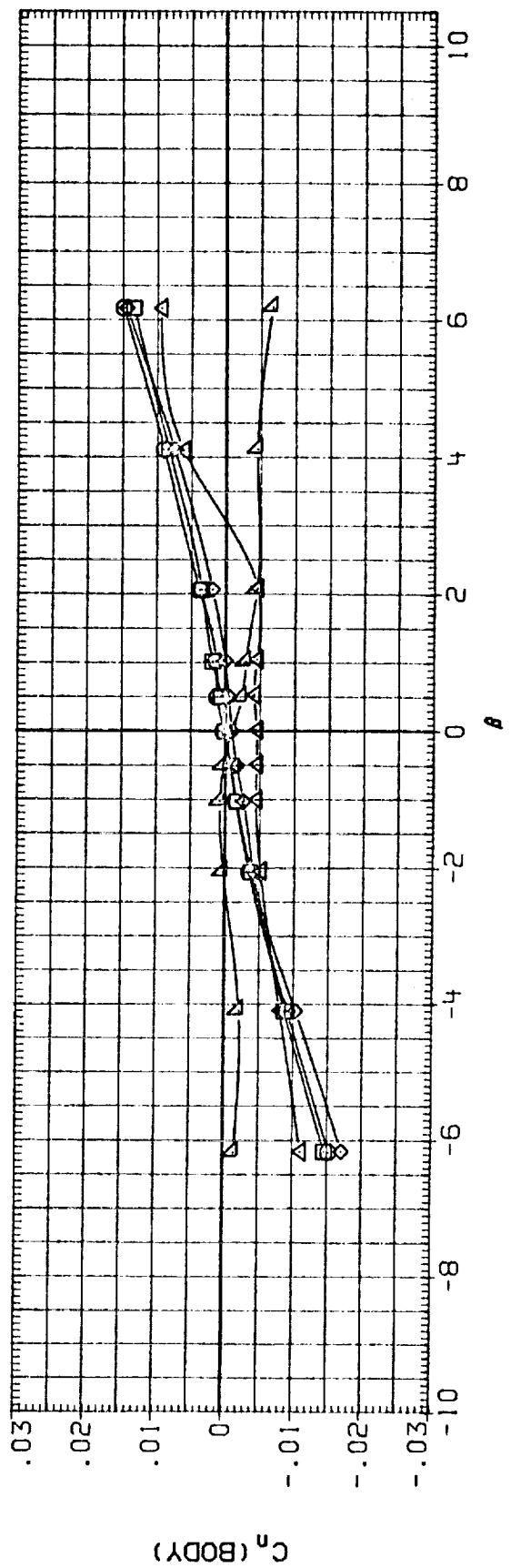
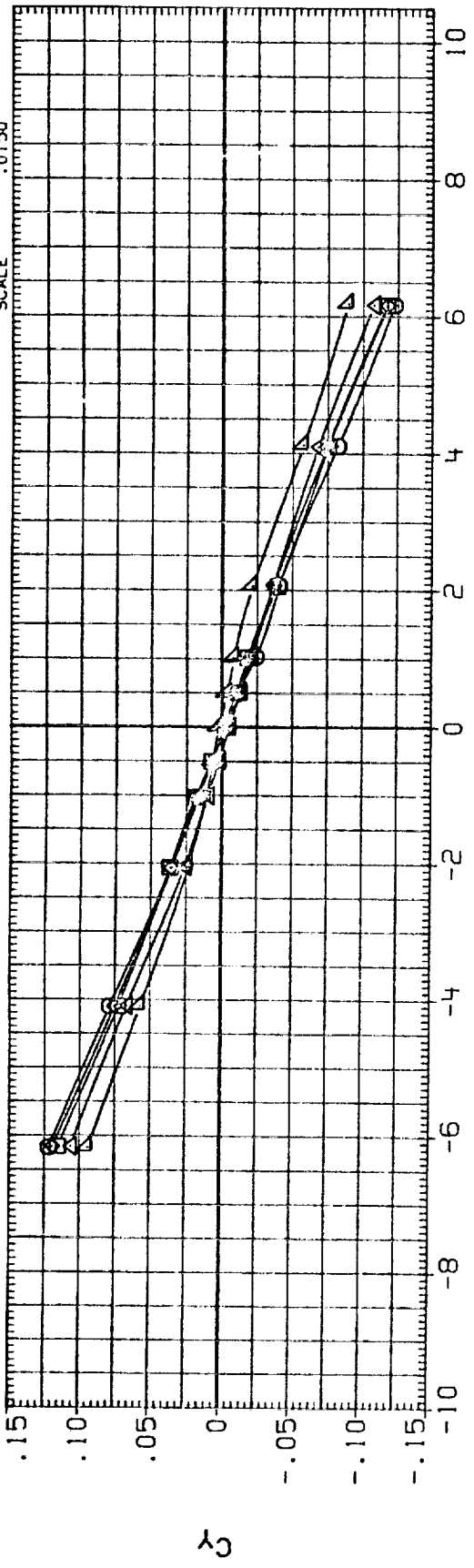


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .95

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| (RUK086) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK088) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK091) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK093) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK095) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | 10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |

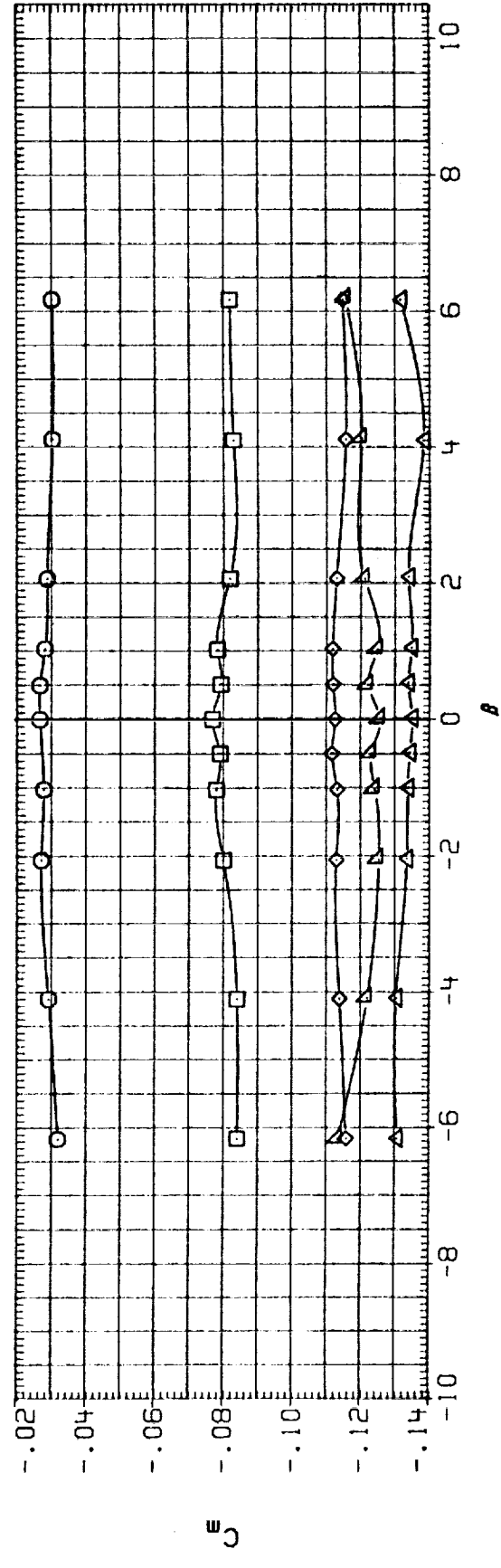
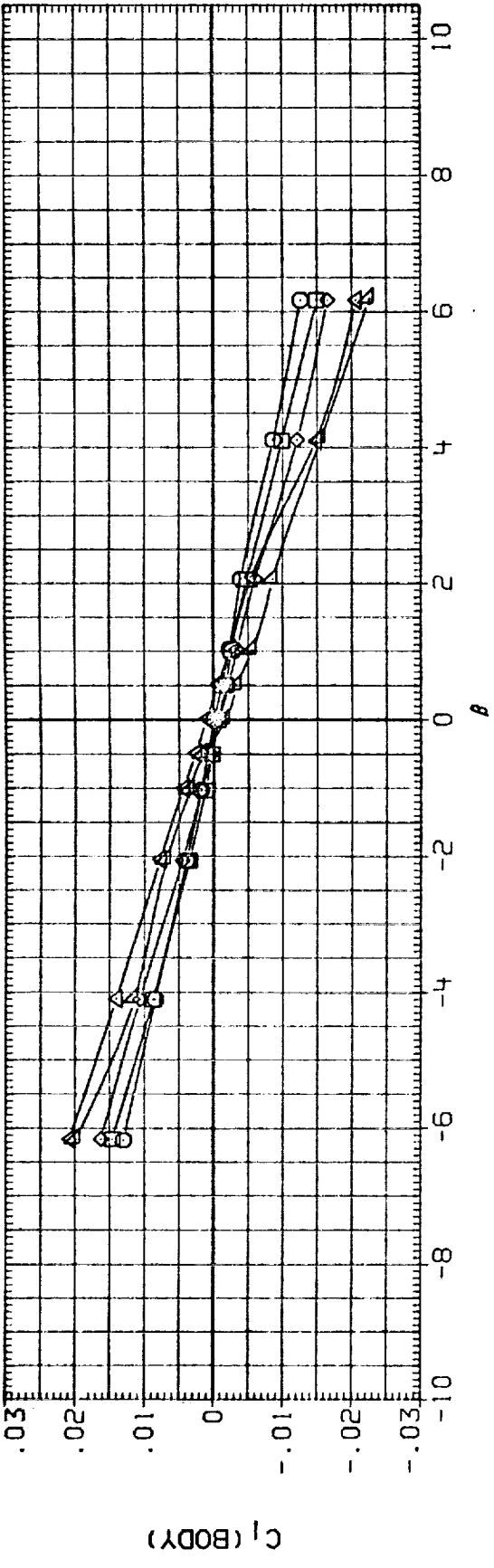


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .95

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | -AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|--------|---------|-----------------------|
| (RUK086) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK093) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | 10.000 | .000 | XHRP 1076.7000 IN. XO |
| (RUK095) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | 10.000 | .000 | YHRP .0000 IN. YO |
| | | | | | | ZHRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

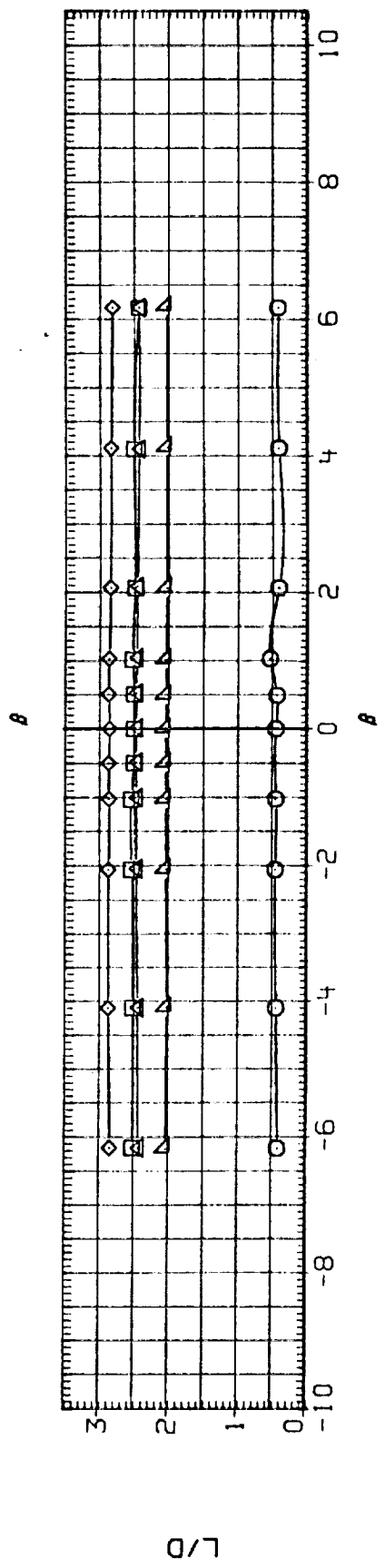
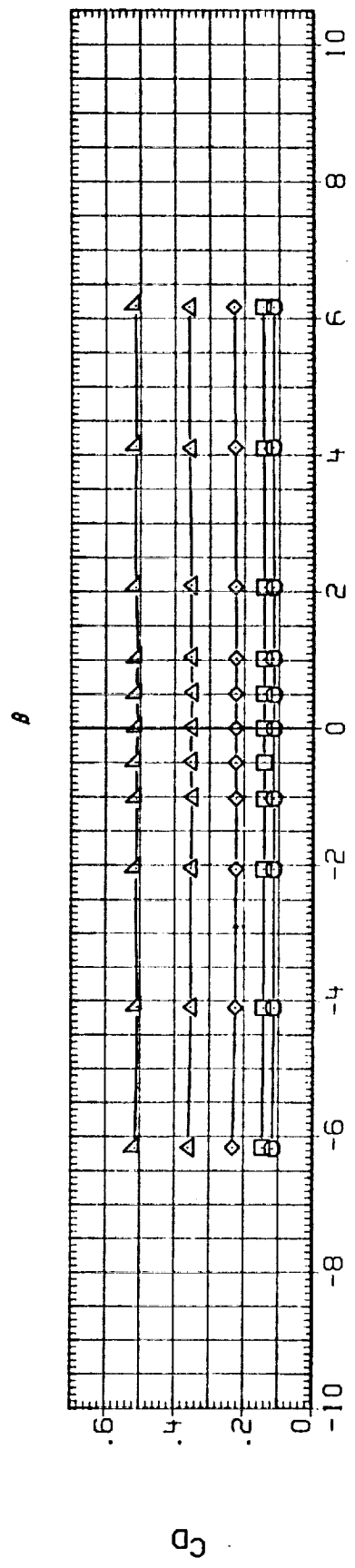
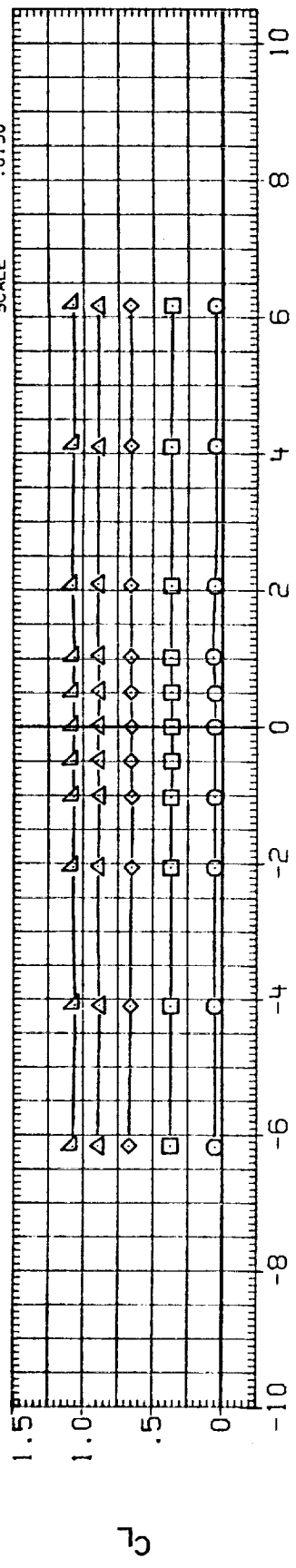


FIG. 34 YAW POLARS, ELEVON = 10

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (CUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SO.FT. |
| (CUK089) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (CUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | SREF 936.6800 IN. XO |
| (CUK093) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | 10.000 | .000 | YMRP 1076.7000 IN. YO |
| (CUK095) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.500 | 10.000 | .000 | ZMRP 375.0000 IN. ZO |

SCALE .0150

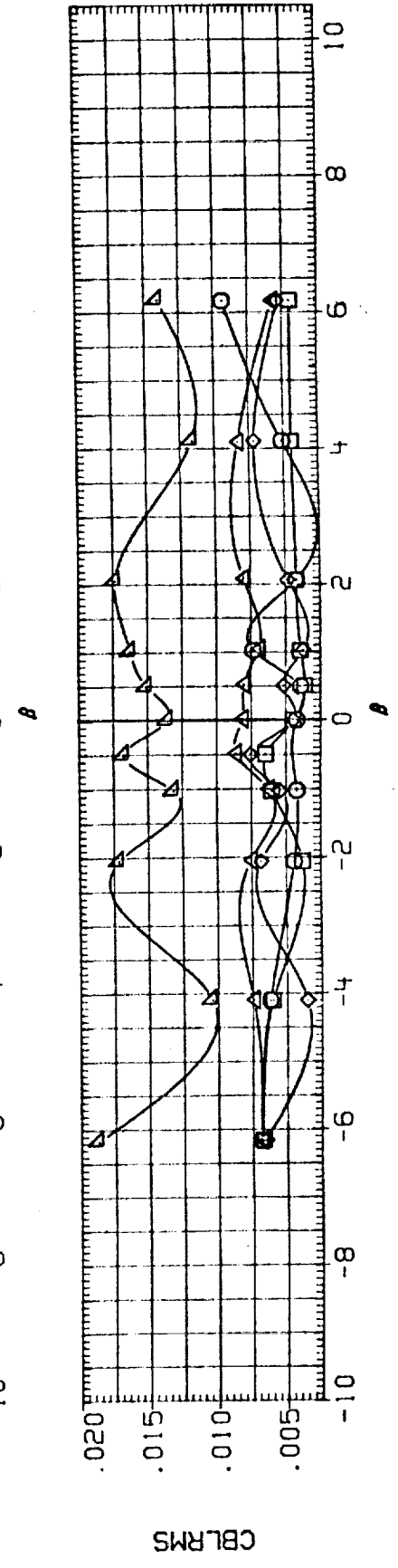
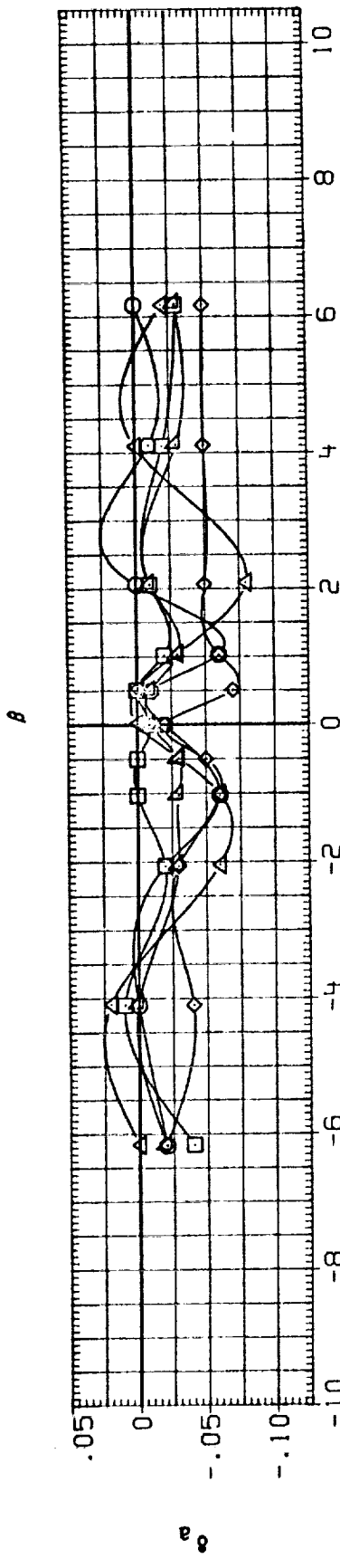
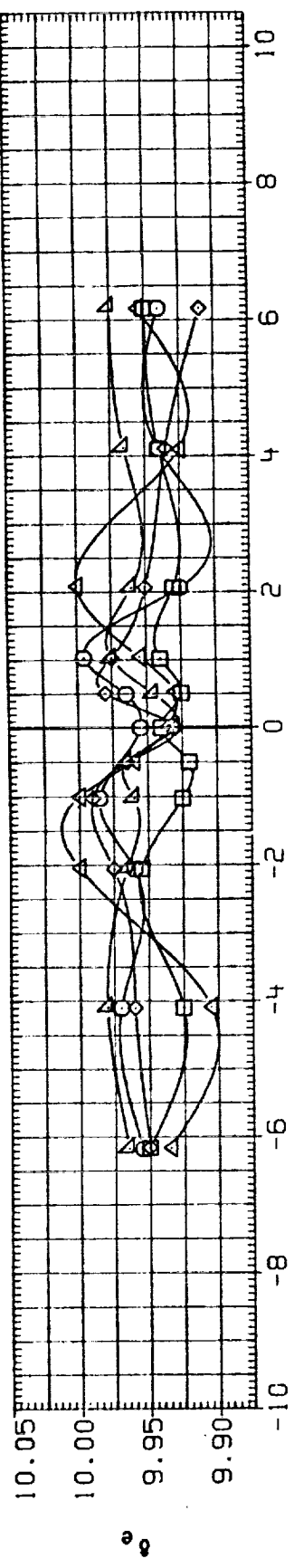


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .95

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|------------------------|
| (RUK088) | □ | DATA NOT AVAILABLE | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SQ. FT. |
| (RUK089) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK091) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK093) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK095) | ◇ | DATA NOT AVAILABLE | 20.000 | 4.500 | 10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

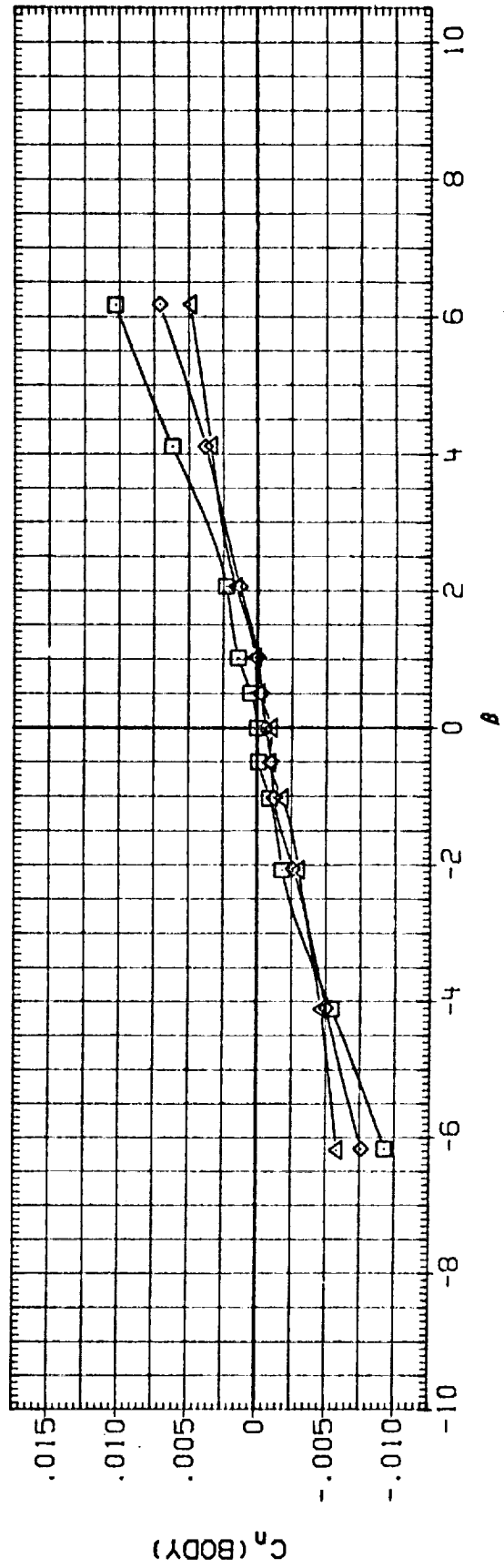
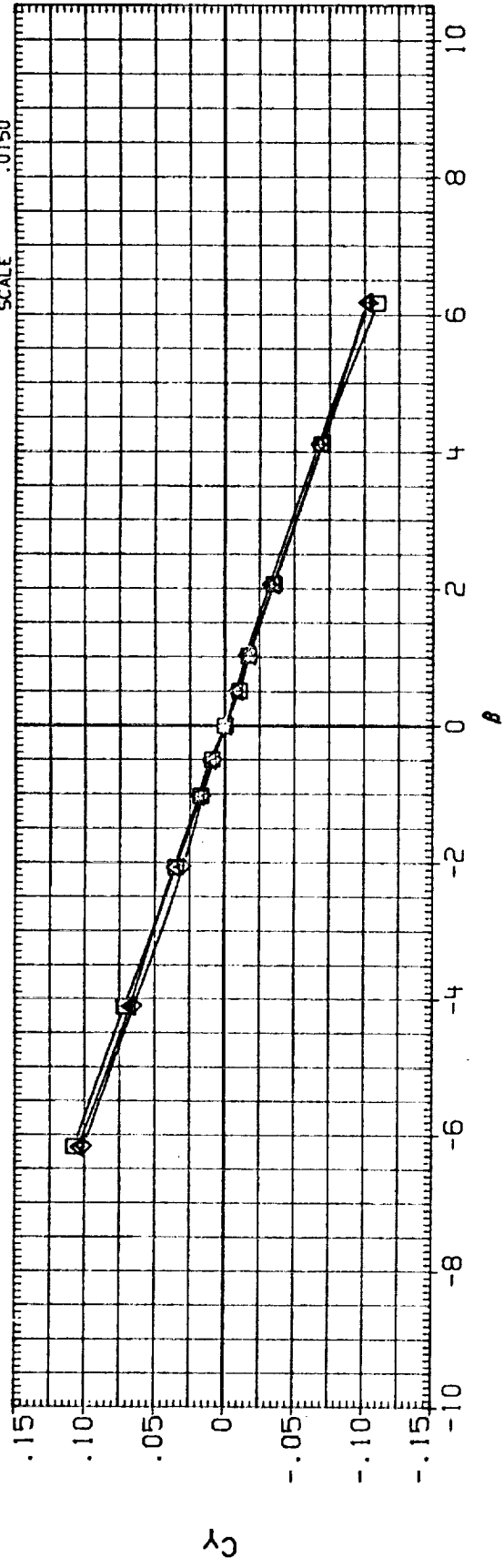


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK088) DATA NOT AVAILABLE

(RUK089) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK091) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK093) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK095) DATA NOT AVAILABLE

ALPHA RN/L ELEVON AIRLON

.000 4.500 10.000 .000

5.000 4.500 10.000 .000

10.000 4.500 10.000 .000

15.000 4.500 10.000 .000

20.000 4.500 10.000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6900 INCHES

YMPP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

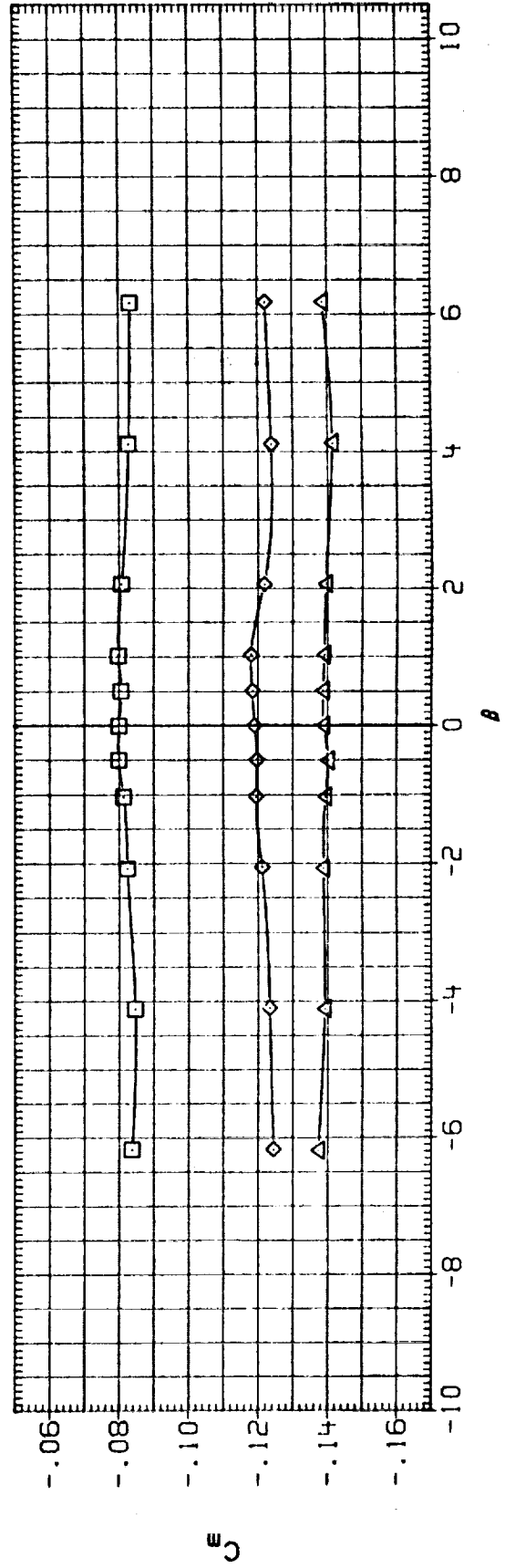
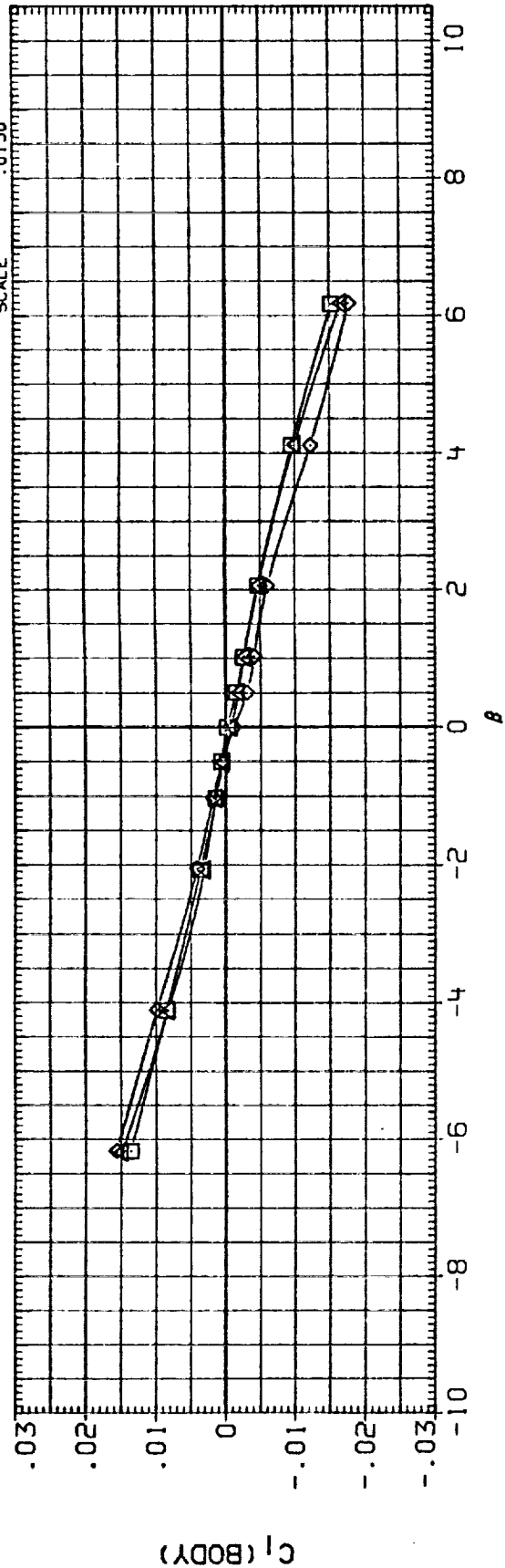


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = 1.05

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|--------|-------|--------|--------|------------------------|
| (RUK088) | DATA NOT AVAILABLE | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SQ. FT. |
| (RUK088) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK091) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK093) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | 10.000 | .000 | XPRP 1076.7000 IN. XO |
| (RUK095) | DATA NOT AVAILABLE | 20.000 | 4.500 | 10.000 | .000 | YHRP .0000 IN. YO |
| | | | | | | ZHRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

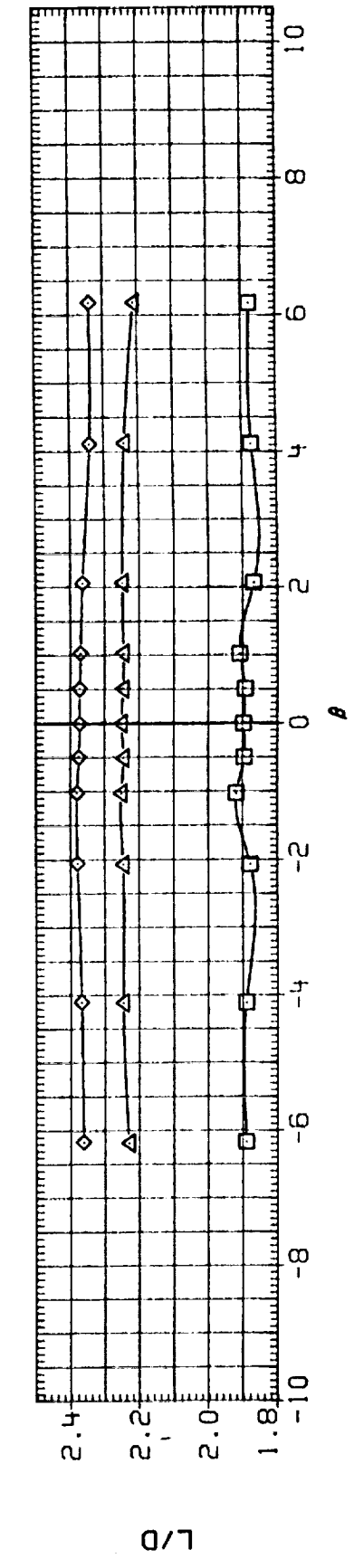
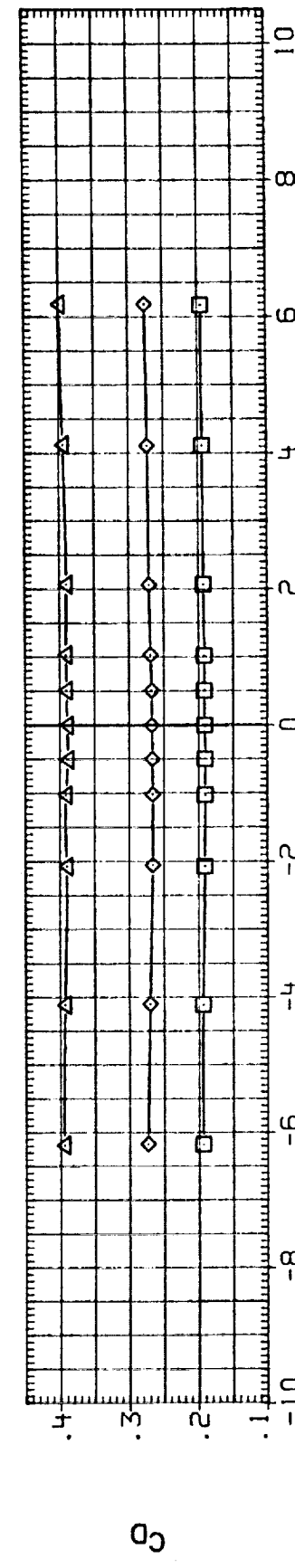
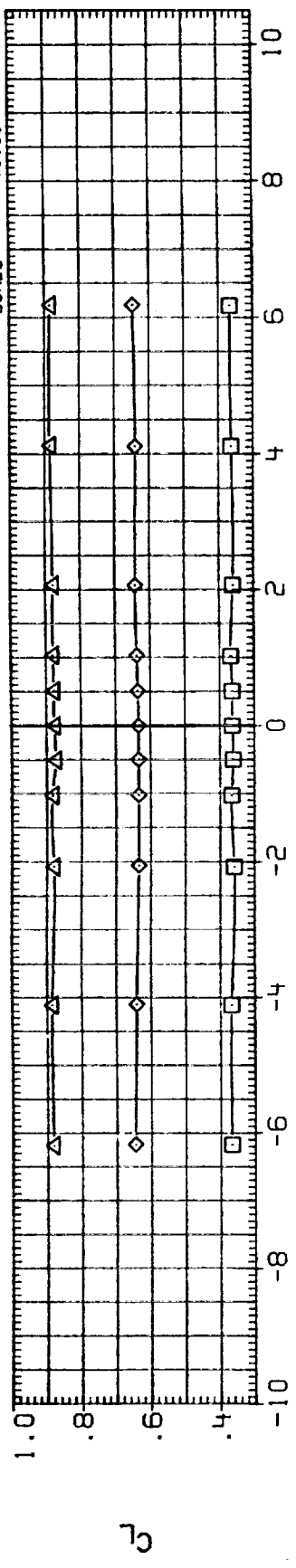


FIG. 34 YAW POLARS, ELEVON = 10

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (CUK086) | DATA NOT AVAILABLE | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK088) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (CUK091) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (CUK093) | LAYO BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| (CUK095) | DATA NOT AVAILABLE | 20.000 | 4.500 | 10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

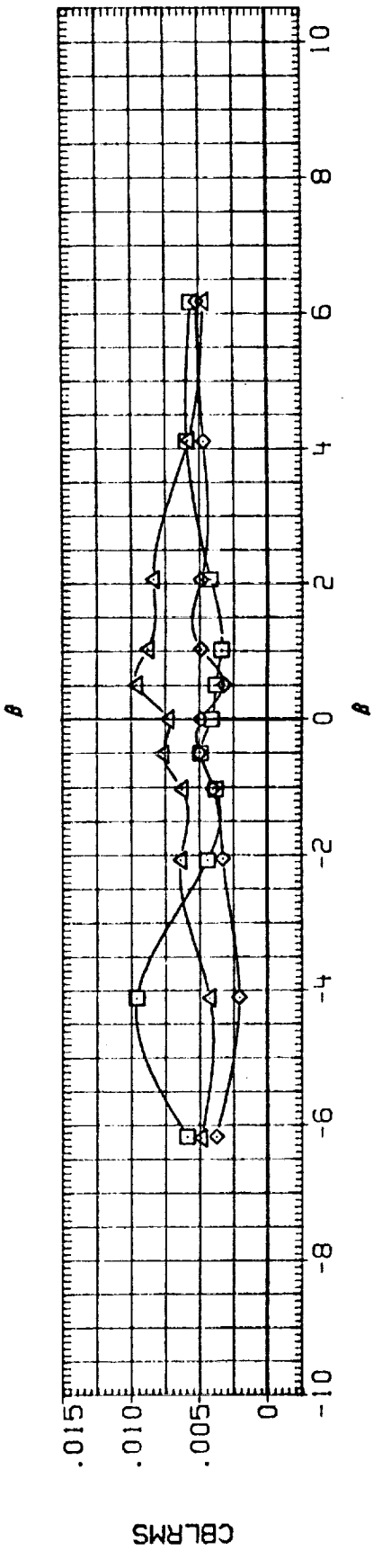
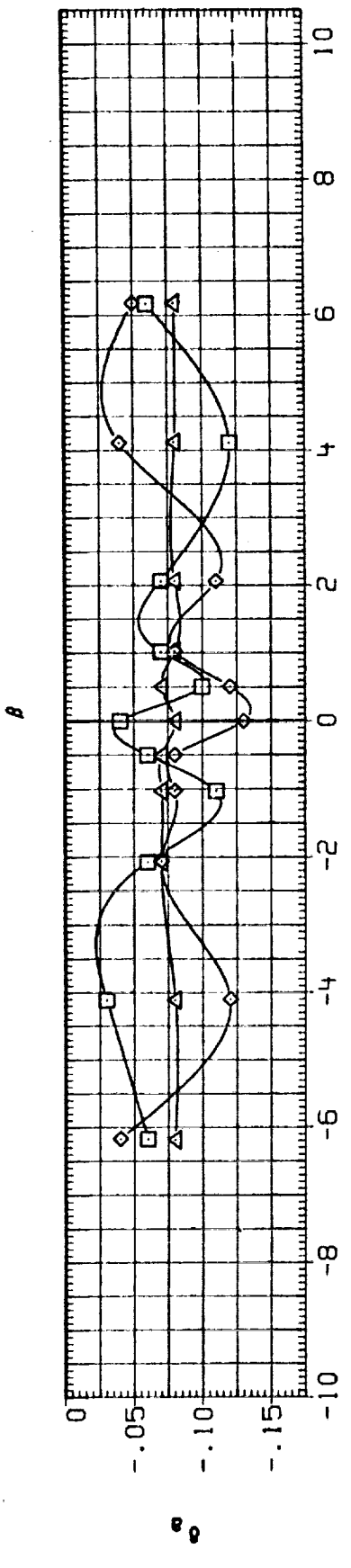
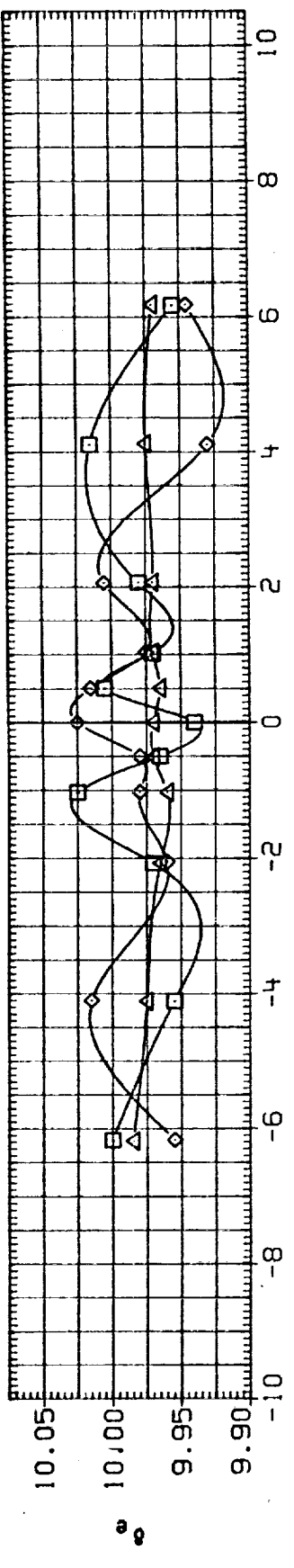


FIG. 34 YAW POLARS, ELEVON = 10

(A)MACH = 1.05

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILIRON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|---------|------------------------|
| (RUK085) | □ | DATA NOT AVAILABLE | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SQ. FT. |
| (RUK088) | □ | DATA NOT AVAILABLE | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK091) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK093) | ◇ | DATA NOT AVAILABLE | 15.000 | 4.500 | 10.000 | .000 | XPRP 1076.7000 IN. XO |
| (RUK095) | ◇ | DATA NOT AVAILABLE | 20.000 | 4.500 | 10.000 | .000 | YPRP .0000 IN. YO |
| | | | | | | | ZPRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

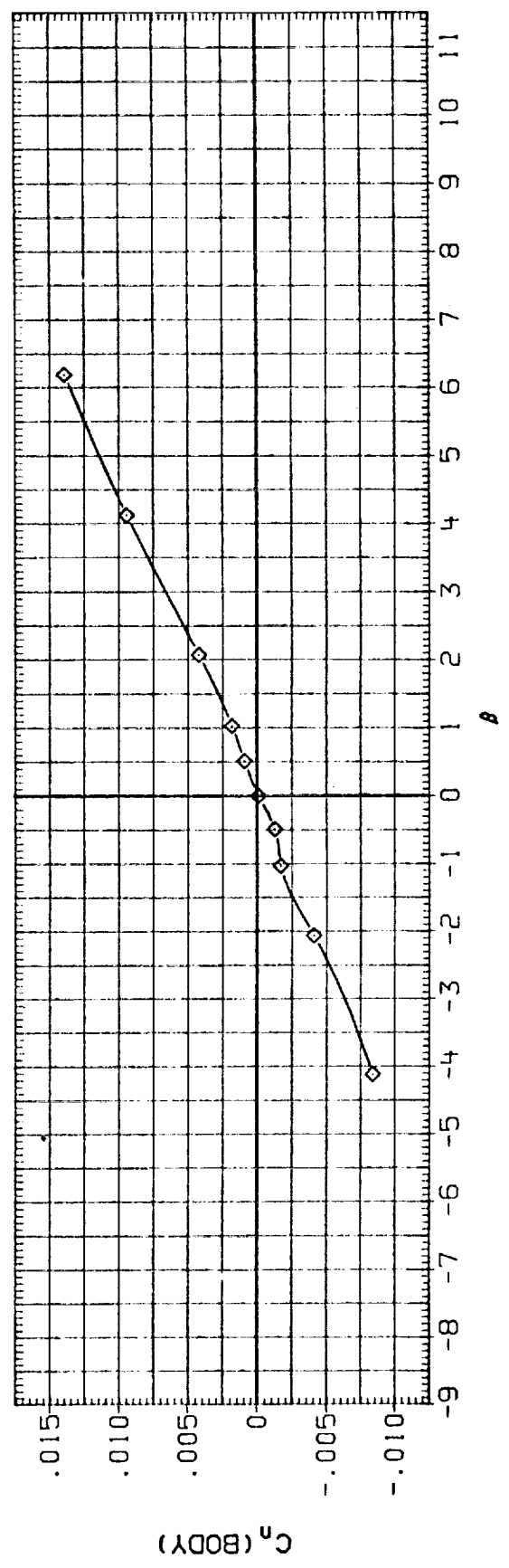
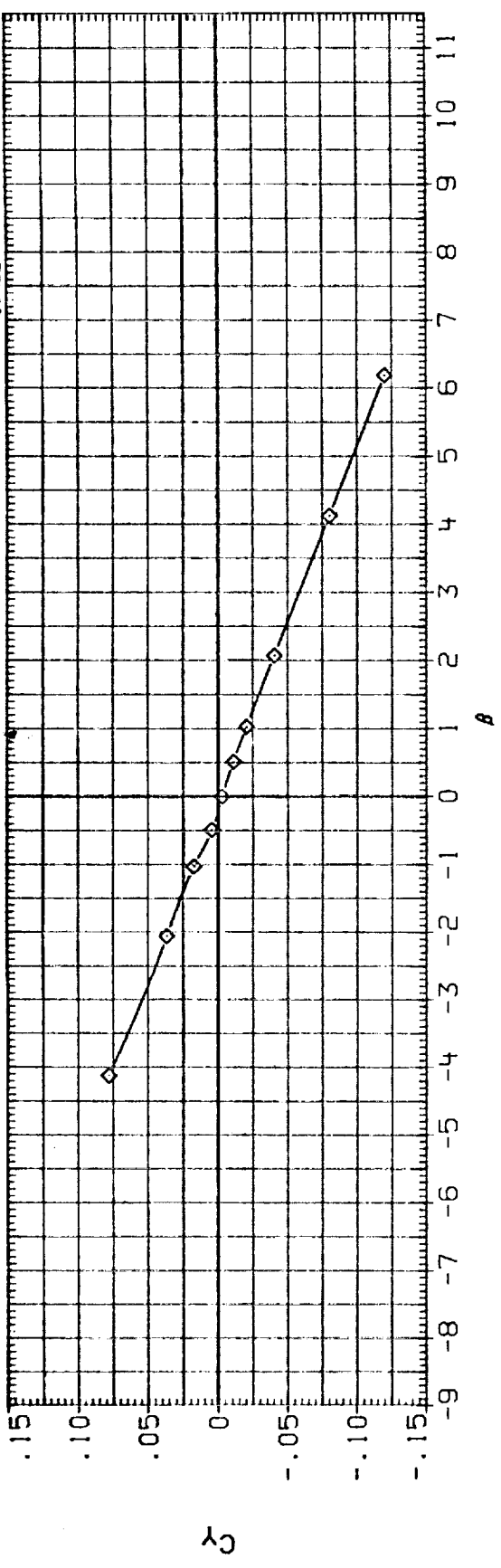


FIG. 34 YAW POLARS, ELEVON = 10

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (RUK086) | DATA NOT AVAILABLE | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK088) | DATA NOT AVAILABLE | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK091) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | EREF 936.6800 INCHES |
| (RUK093) | DATA NOT AVAILABLE | 15.000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK095) | DATA NOT AVAILABLE | 20.000 | 4.500 | 10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

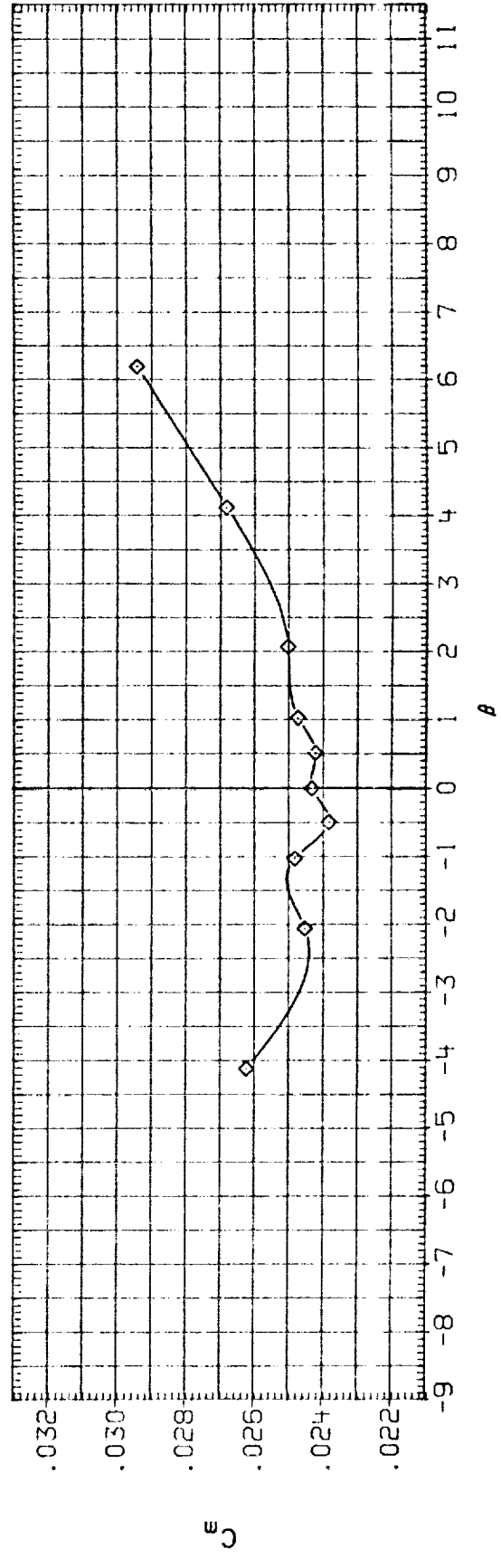
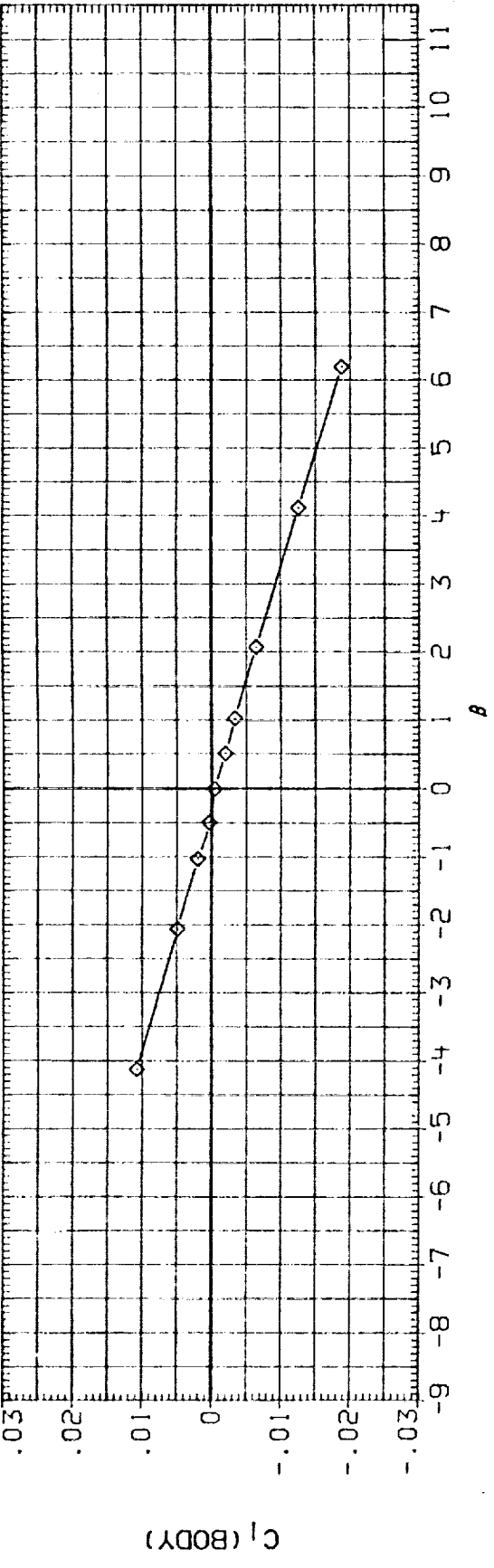


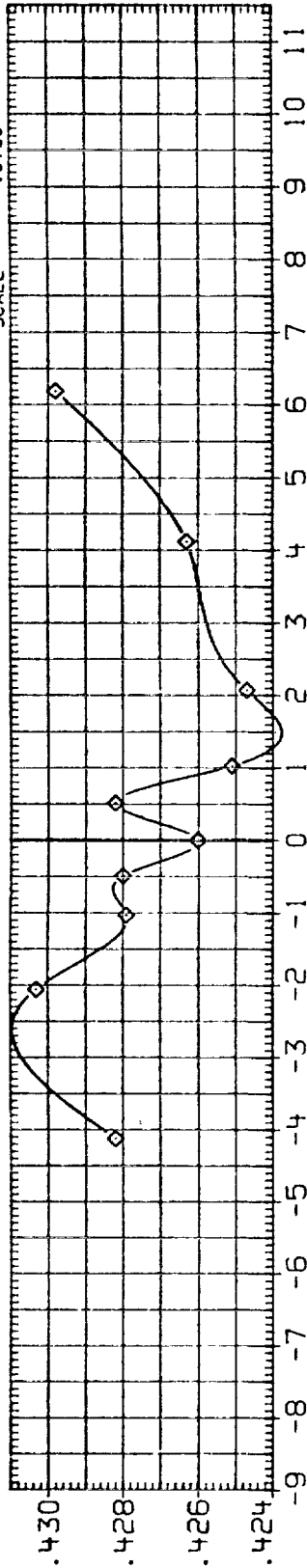
FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = 1.12

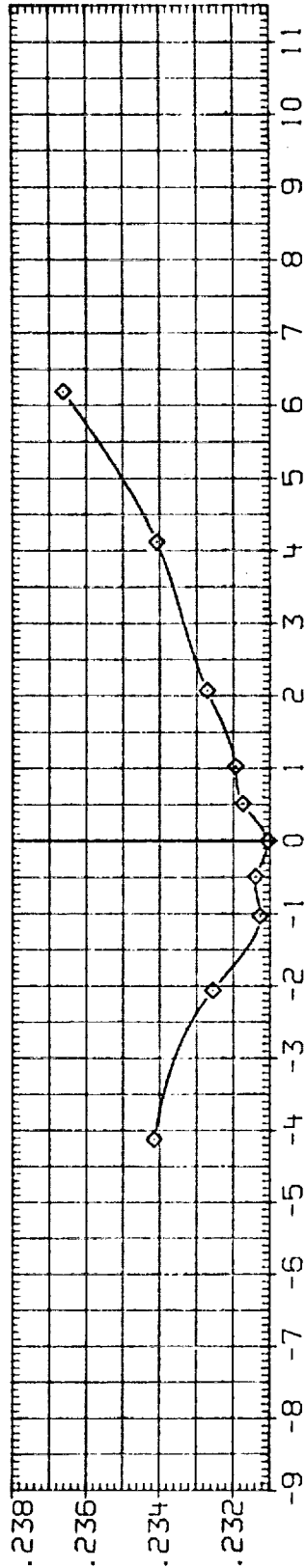
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK086) DATA NOT AVAILABLE
 (RUK088) DATA NOT AVAILABLE
 (RUK091) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)
 (RUK093) DATA NOT AVAILABLE
 (RUK095) DATA NOT AVAILABLE

ALPHA RN/L ELEVON AIRLON
 .000 4.500 10.000 .000
 5.000 4.500 10.000 .000
 10.000 4.500 10.000 .000
 15.000 4.500 10.000 .000
 20.000 4.500 10.000 .000

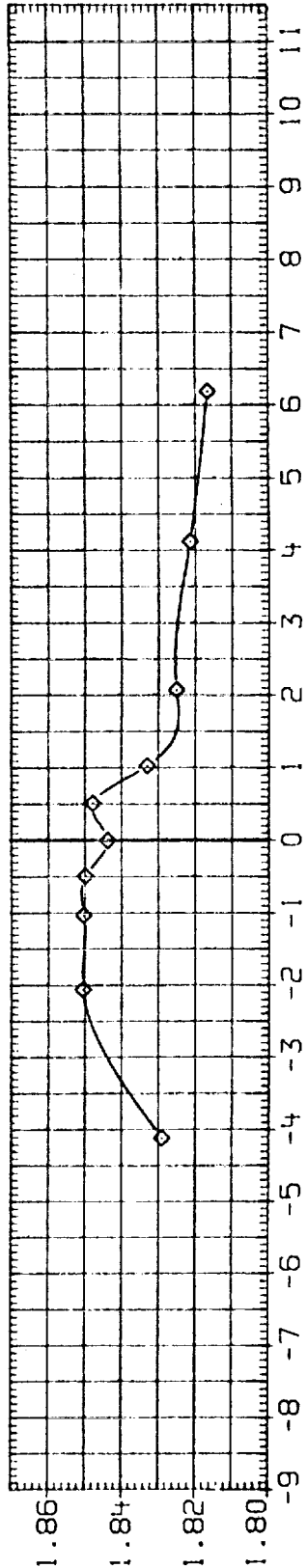
REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150



Cl



Cd



L/D

FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = 1.12

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RNVL | ELEVON | AILRON | REFERENCE INFORMATION |
| (CUK086) | DATA NOT AVAILABLE | .000 | 4.500 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK088) | DATA NOT AVAILABLE | 5.000 | 4.500 | 10.000 | .000 | LREF 474.8000 INCHES |
| (CUK091) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (CUK093) | DATA NOT AVAILABLE | 15.000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| (CUK095) | DATA NOT AVAILABLE | 20.000 | 4.500 | 10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

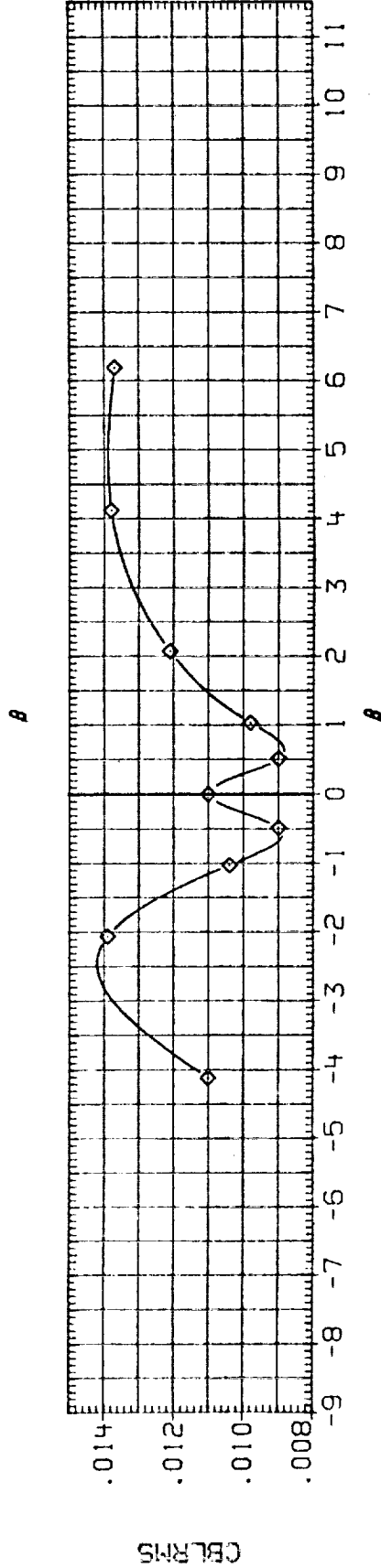
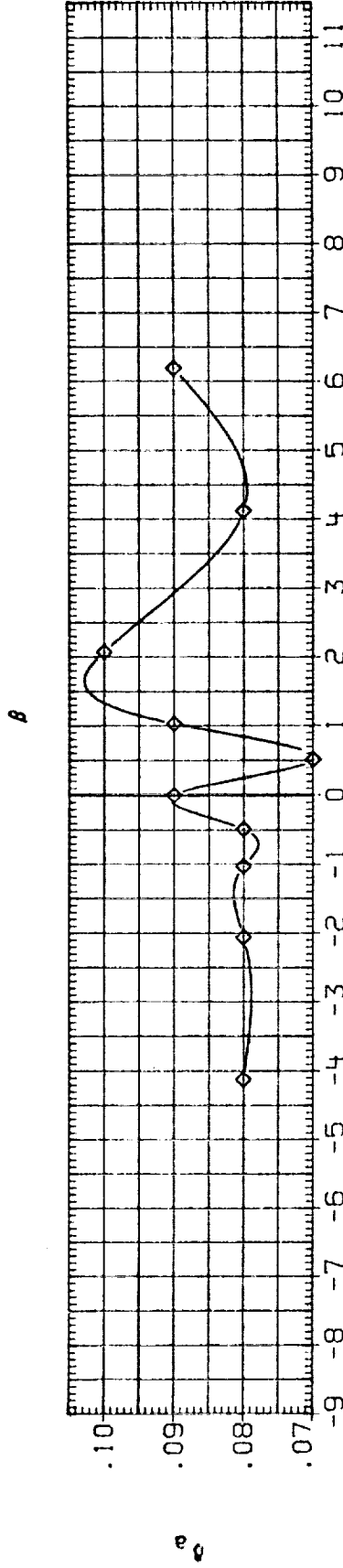
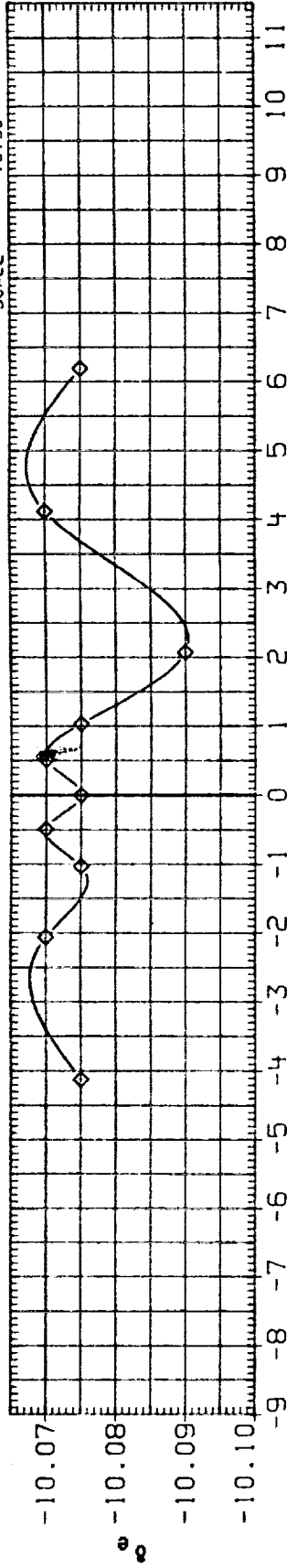


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = 1.12

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|--------|-----------------------|
| (RUK087) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.000 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK089) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.000 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK092) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.000 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK094) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.000 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK096) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.000 | 10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |

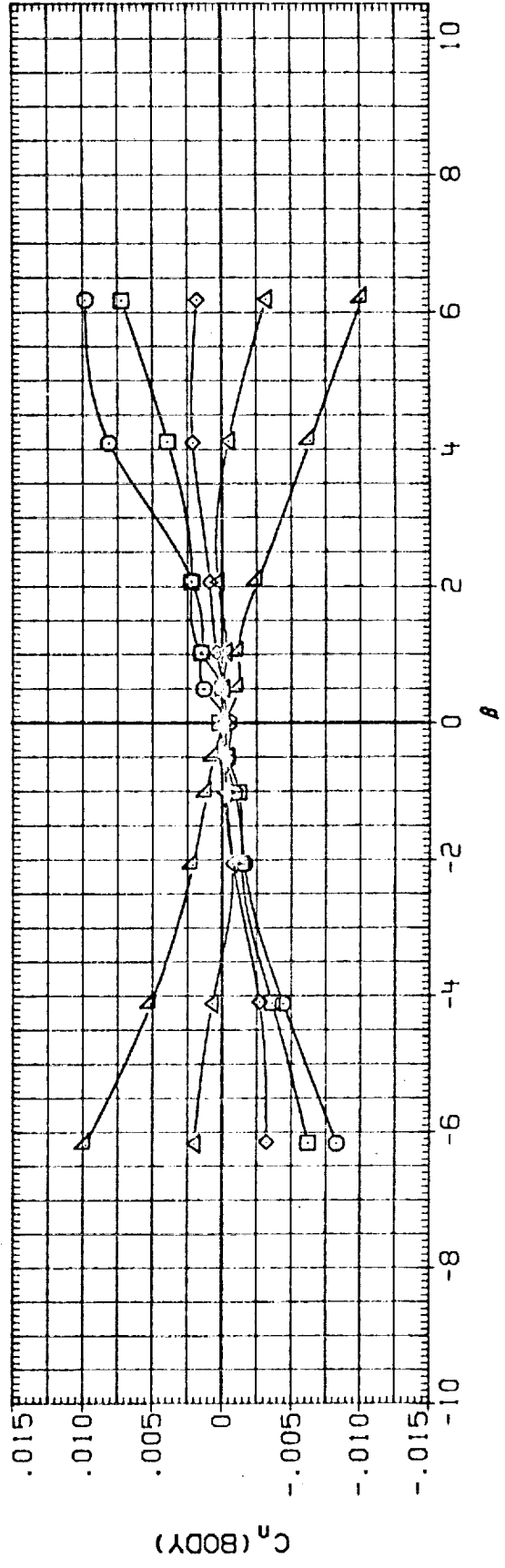
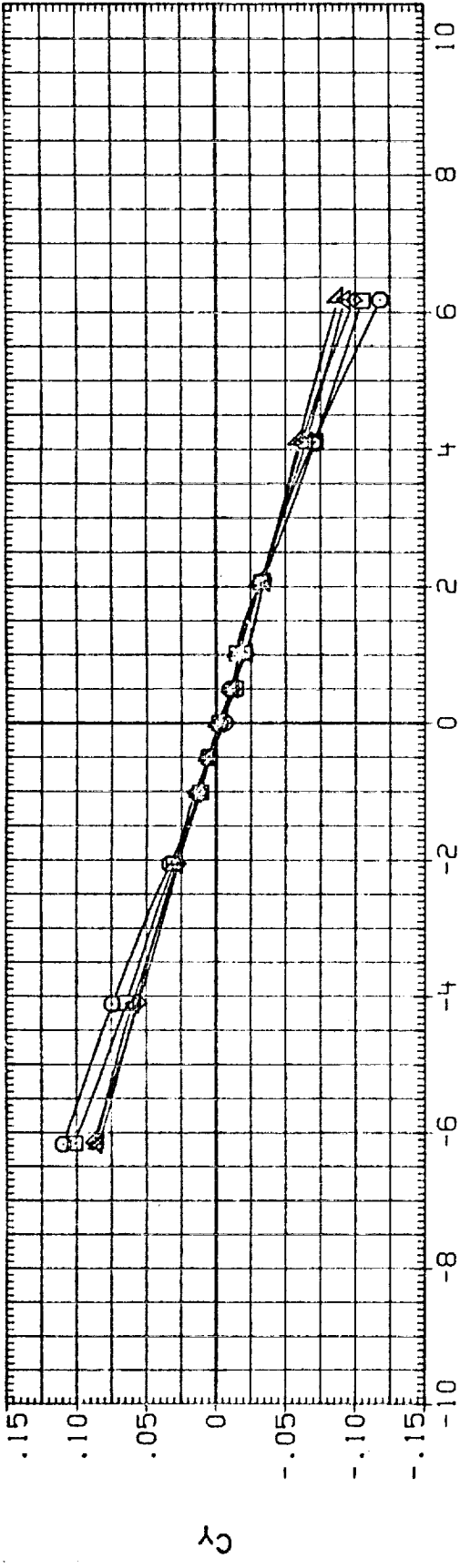


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = 1.20

| | | | | | | |
|-----------------|--|--------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (RUK087) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.000 | 10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK089) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.000 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK092) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.000 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK094) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.000 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK096) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.000 | 10.000 | .000 | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |

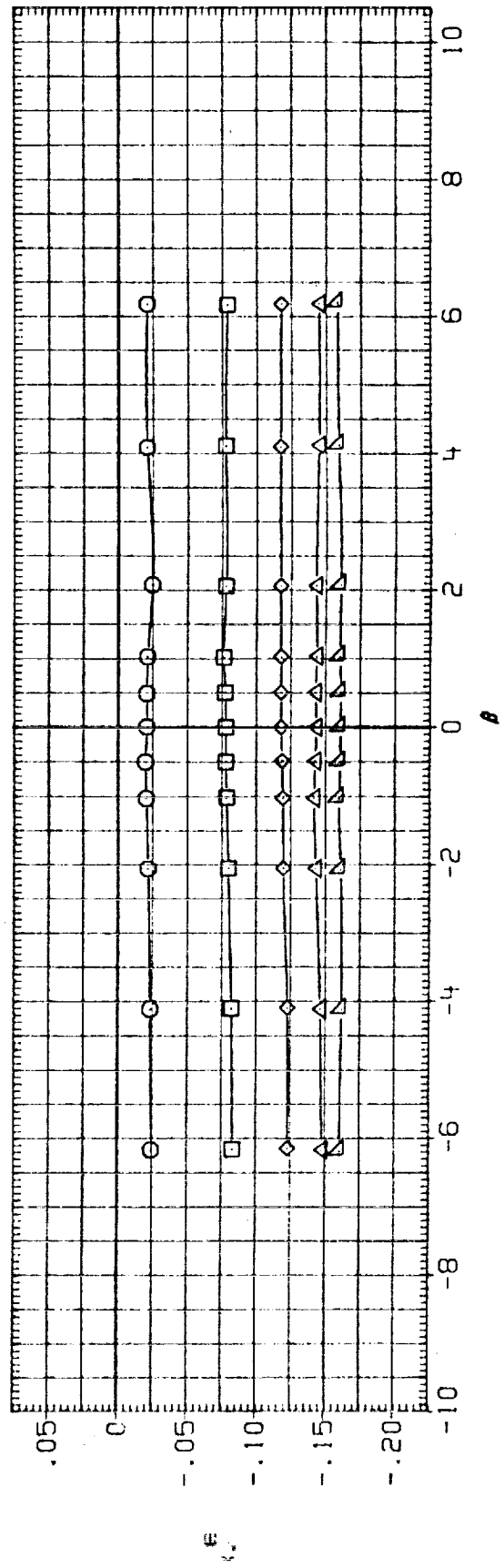
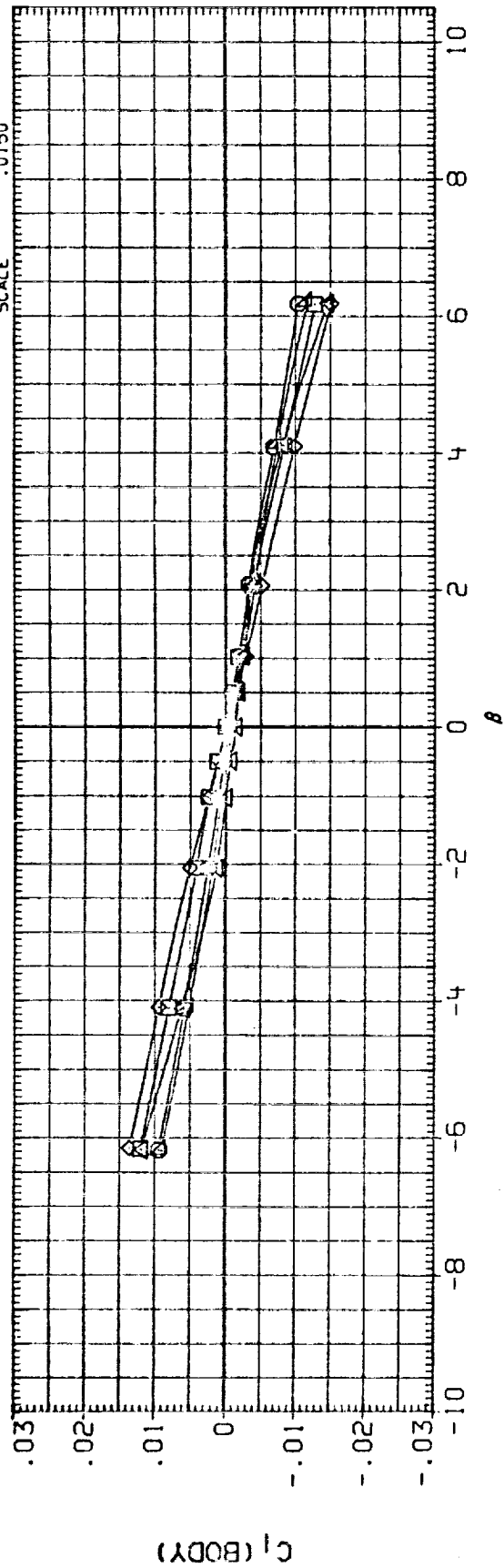


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = 1.20

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RN/L | ELEVON | AILERON | REFERENCE INFORMATION |
|----------|--------|--|--------|-------|--------|---------|-----------------------|
| (RUK087) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.000 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK089) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 5.000 | 4.000 | 10.000 | .000 | LREF 474.8000 INCHES |
| (RUK092) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 10.000 | 4.000 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK094) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 15.000 | 4.000 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| (RUK096) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 20.000 | 4.000 | 10.000 | .000 | YMRP 375.0000 IN. YO |

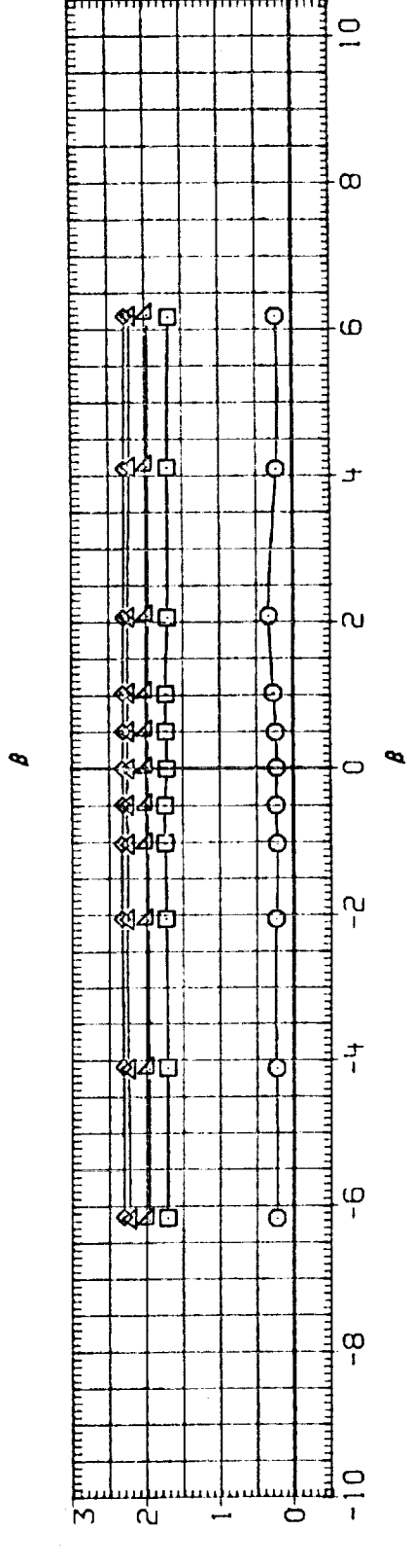
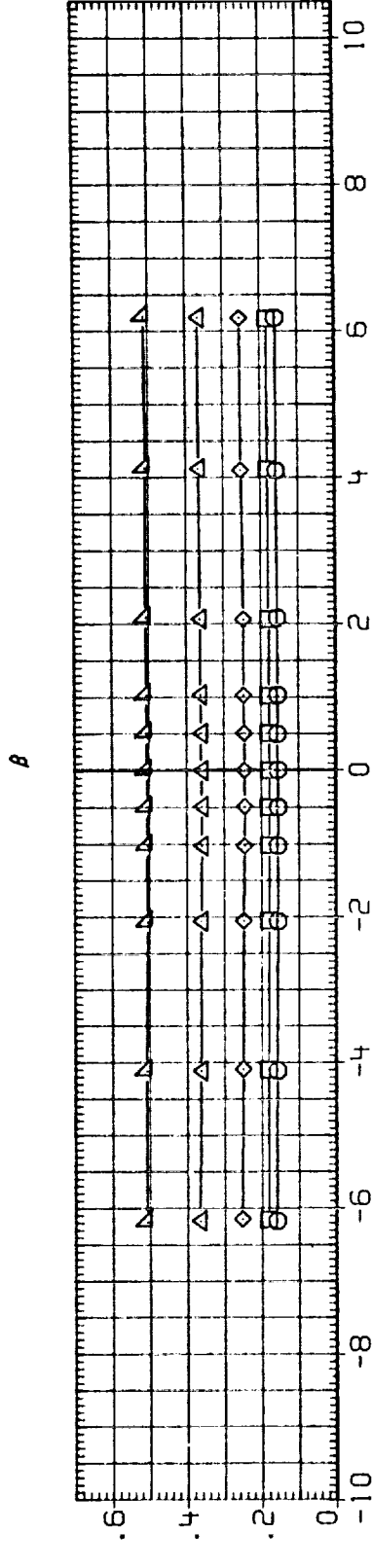
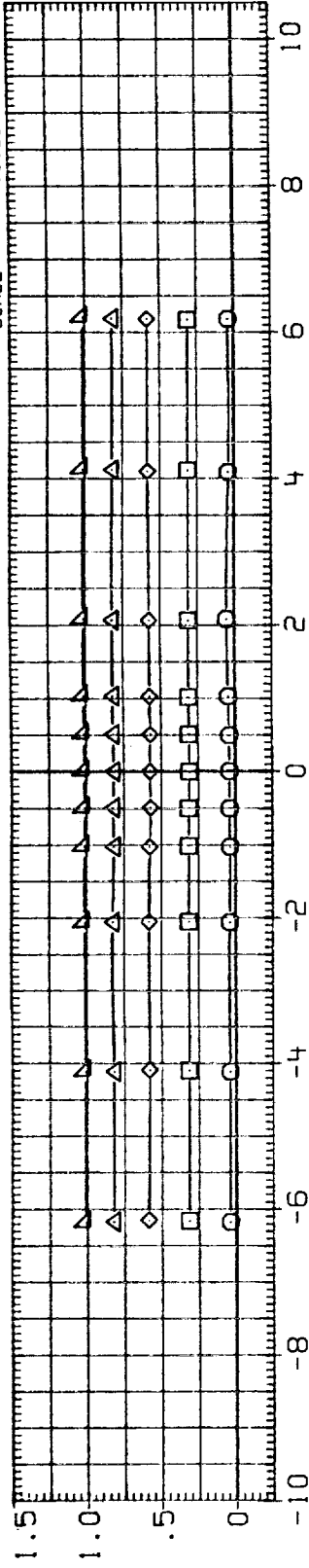


FIG. 34 YAW POLARS, ELEVON = 10

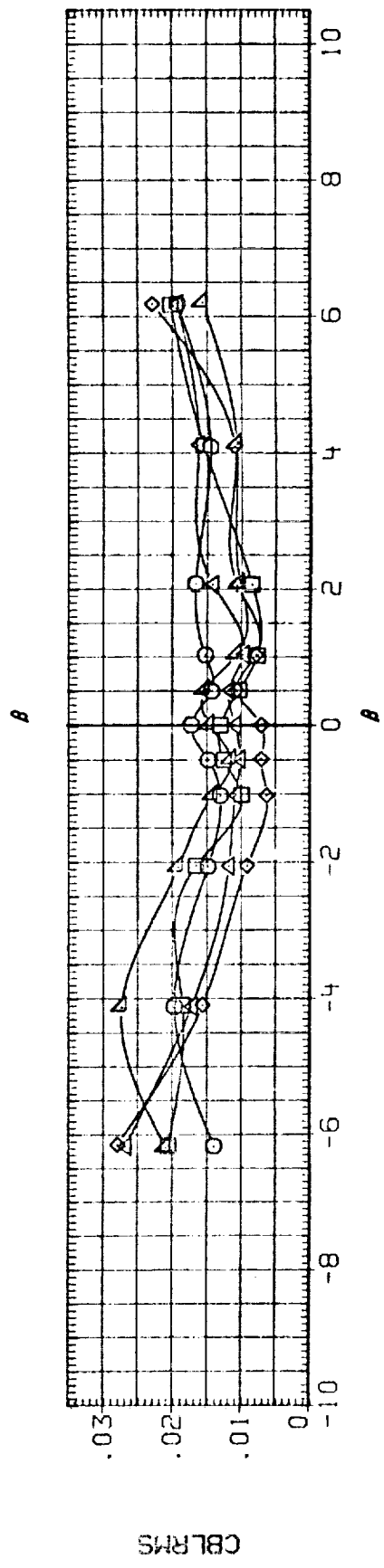
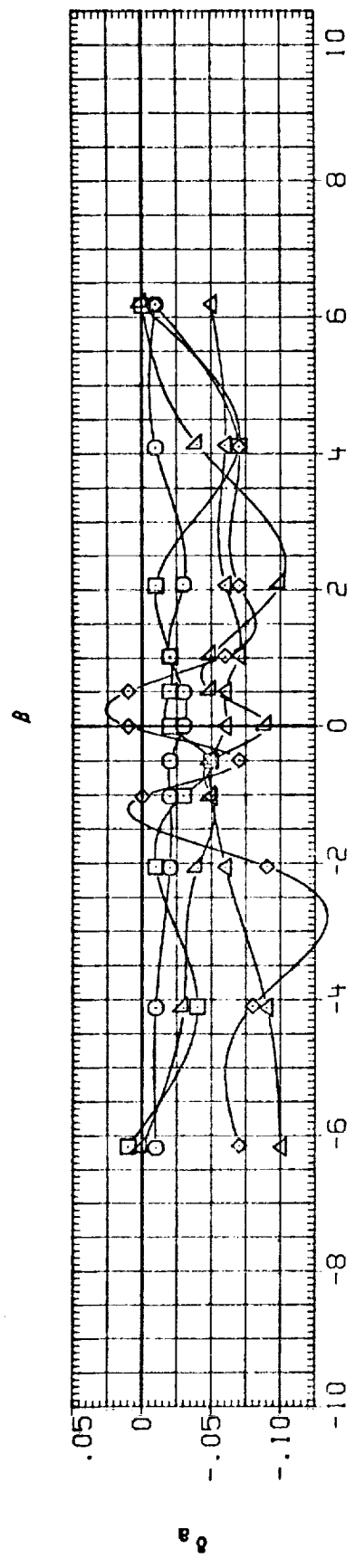
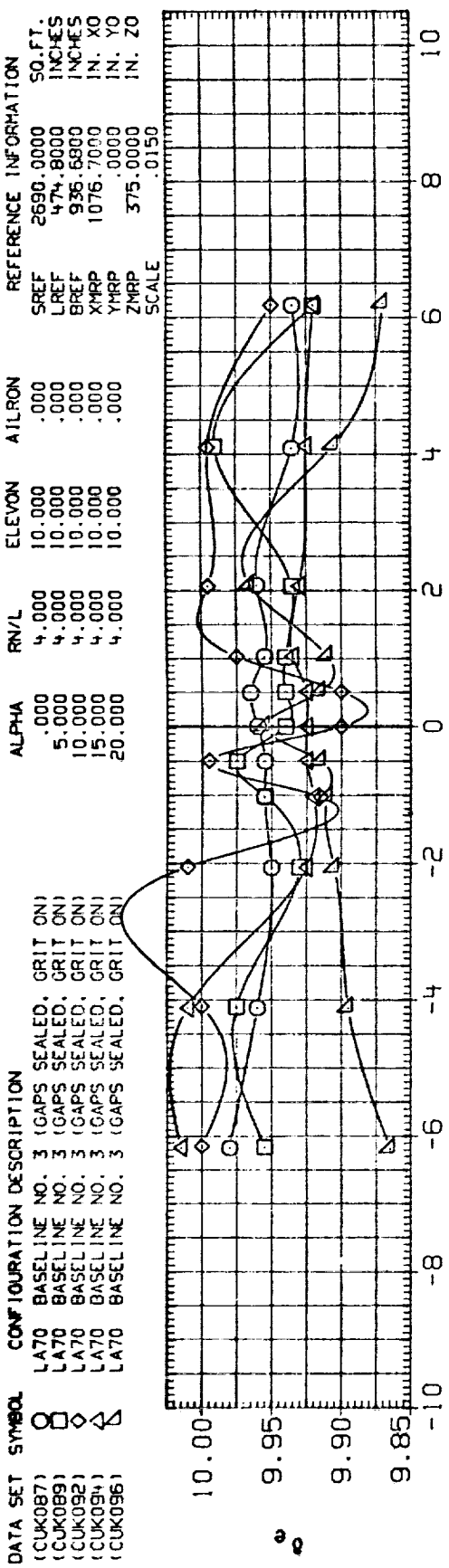


FIG. 34 YAW POLARS, ELEVON = 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK029) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK031) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000
 RN/L 4.500
 ELEVON .000
 AIRLON .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BRFC 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

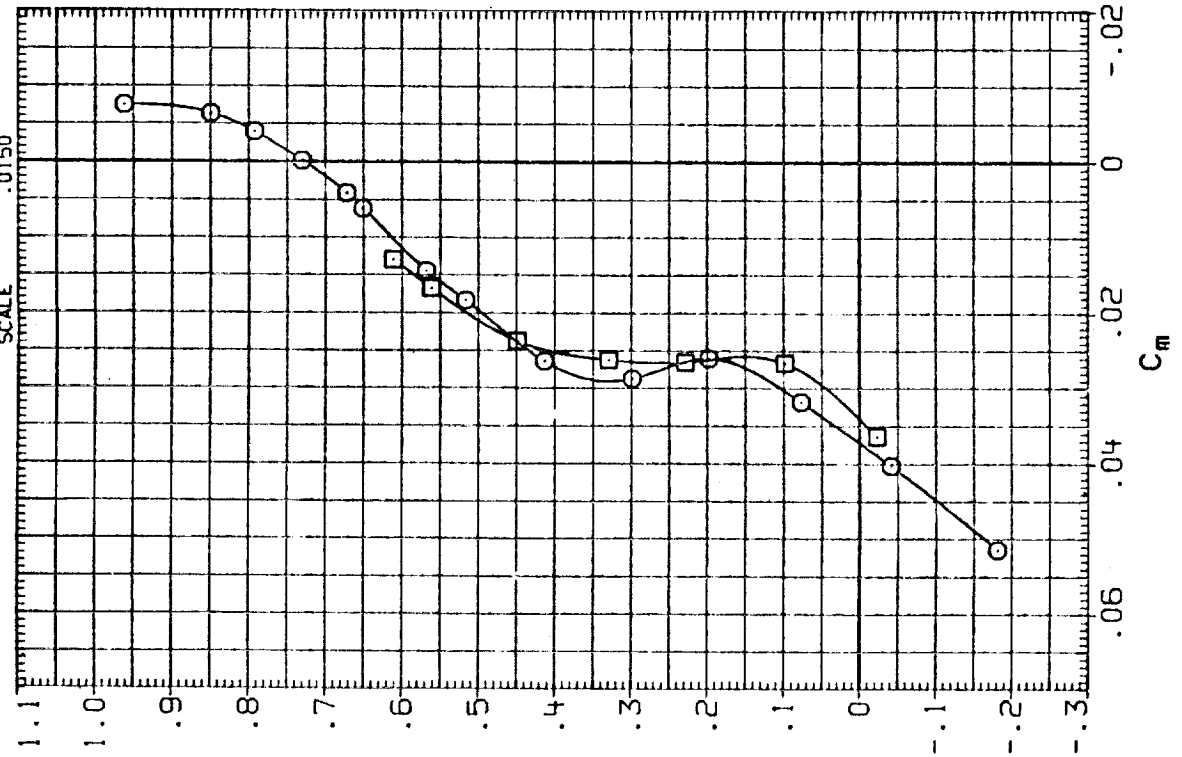
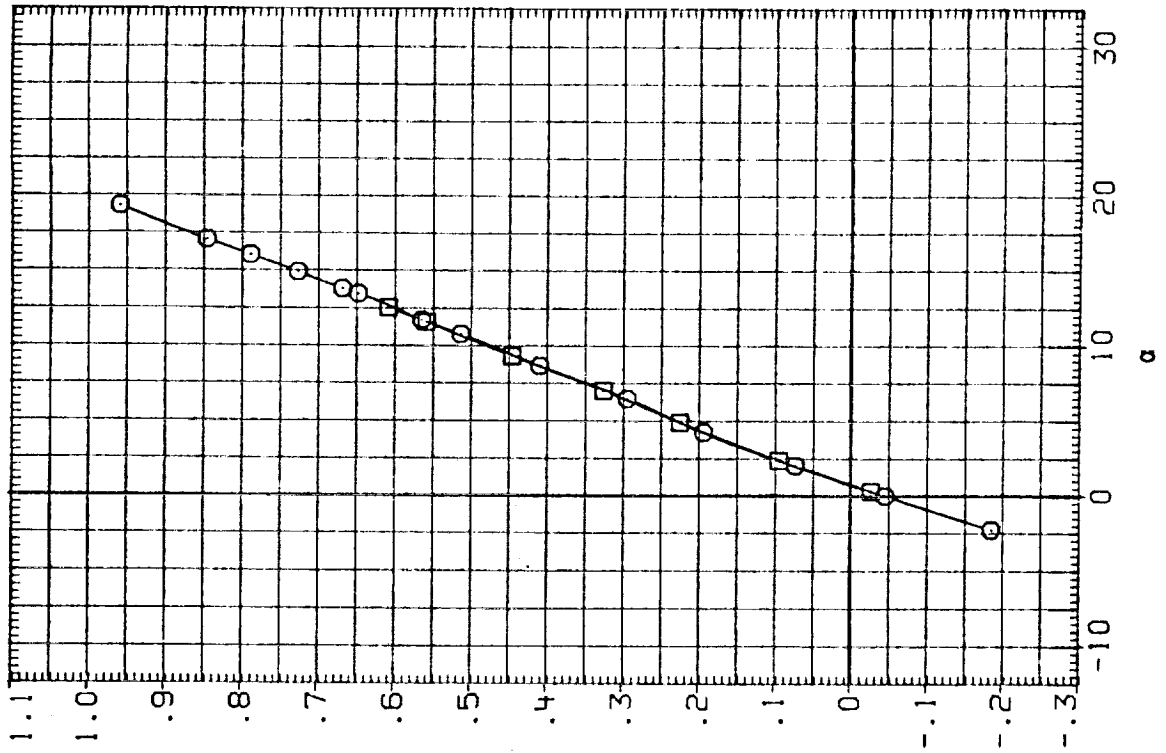


FIG. 35 EJECTOR RUNS, IN PITCH, BETA = 0

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK029) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK031) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000
 .000
 FN/L 4.500 ELEVON .000 AIRLON .000
 8.000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.6000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

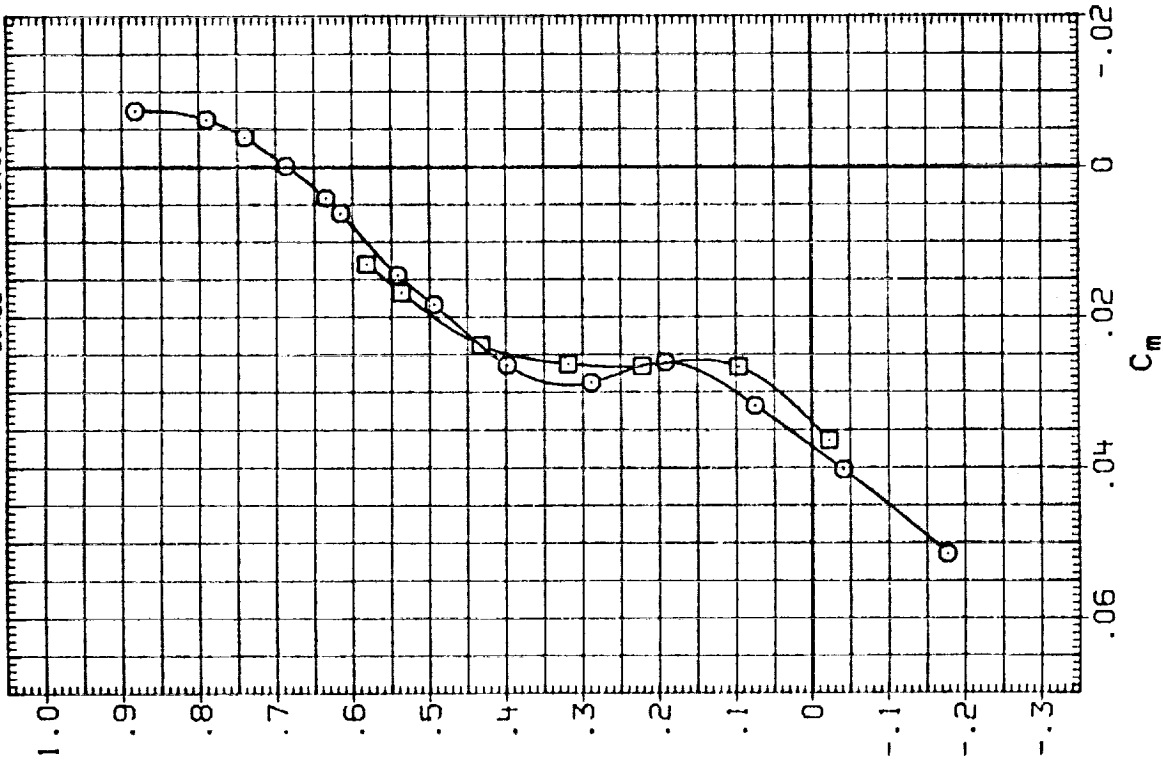
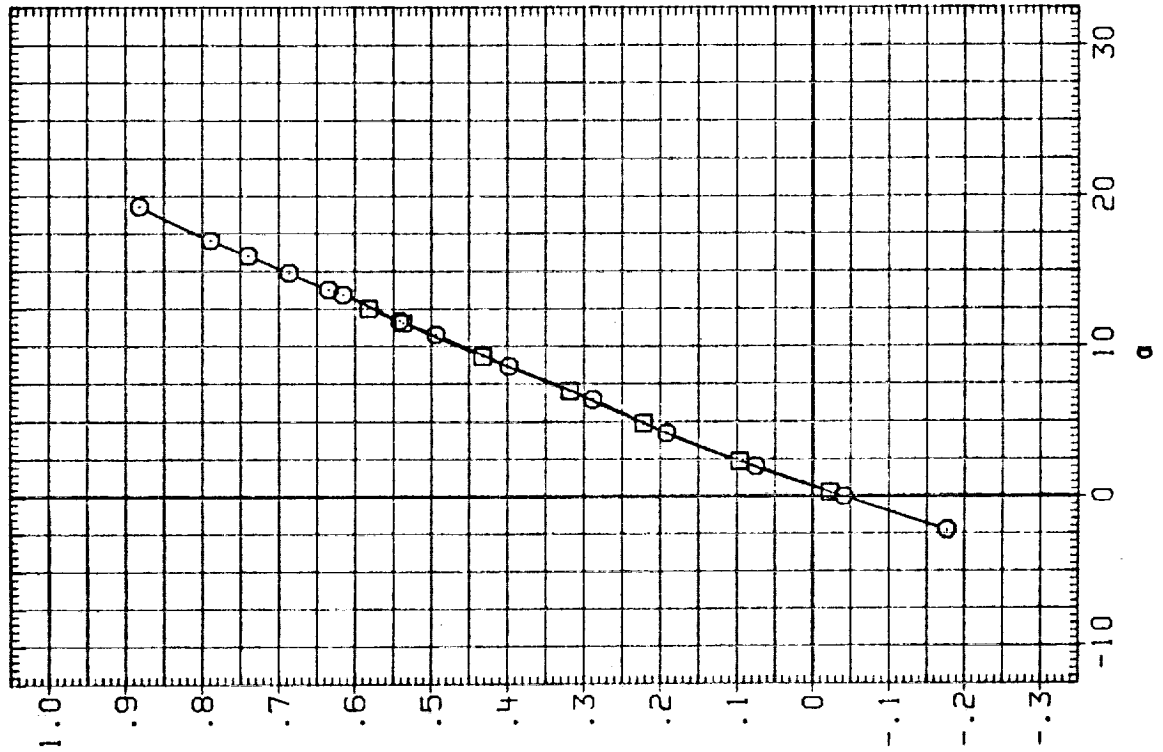


FIG. 35 EJECTOR RUNS, IN PITCH, BETA = 0

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK029) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK031) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIRLON
 .000 4.500 .000 .000
 .000 8.000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP .076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

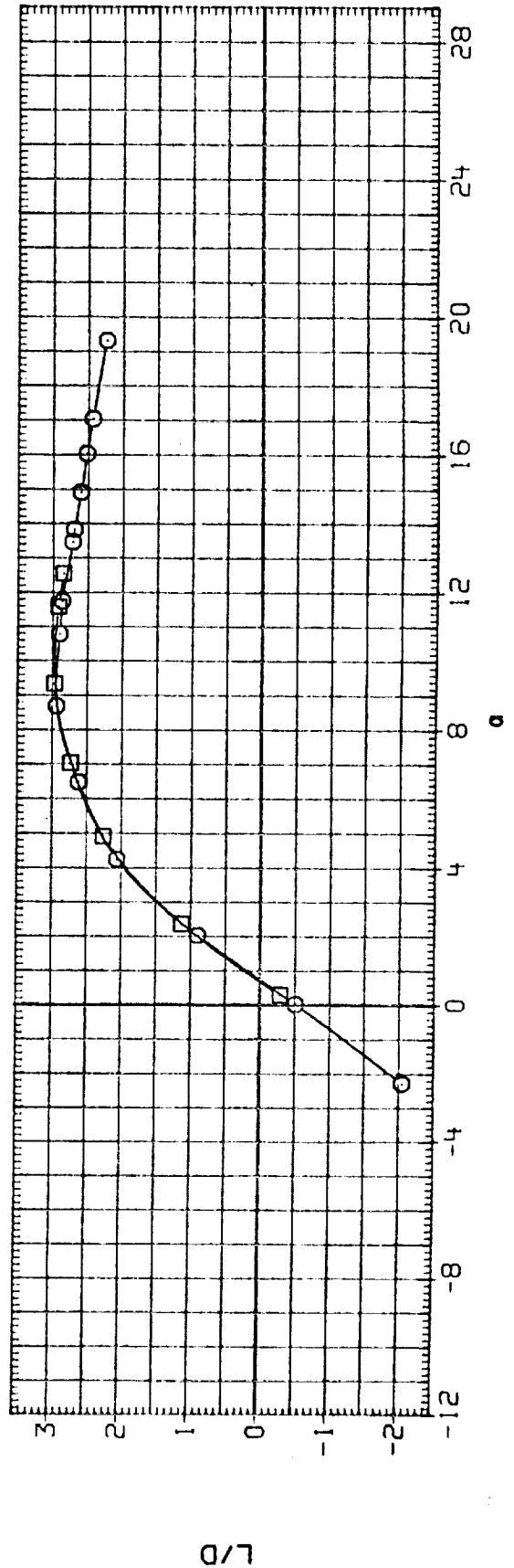
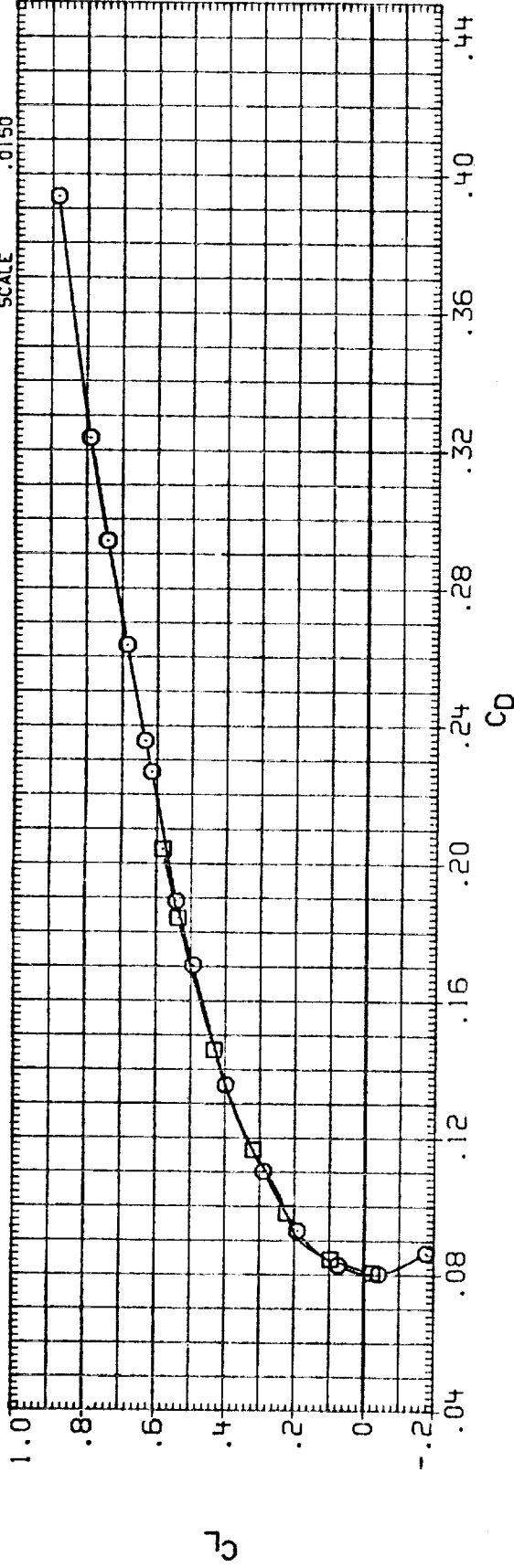


FIG. 35 EJECTOR RUNS, IN PITCH, BETA = 0

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK029) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK031) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIL/ON

.000 4.500 .000 .000

.000 8.000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

ZMRP .0000 IN. Z0

ZMRP 375.0000 IN. Z0

SCALE .0150

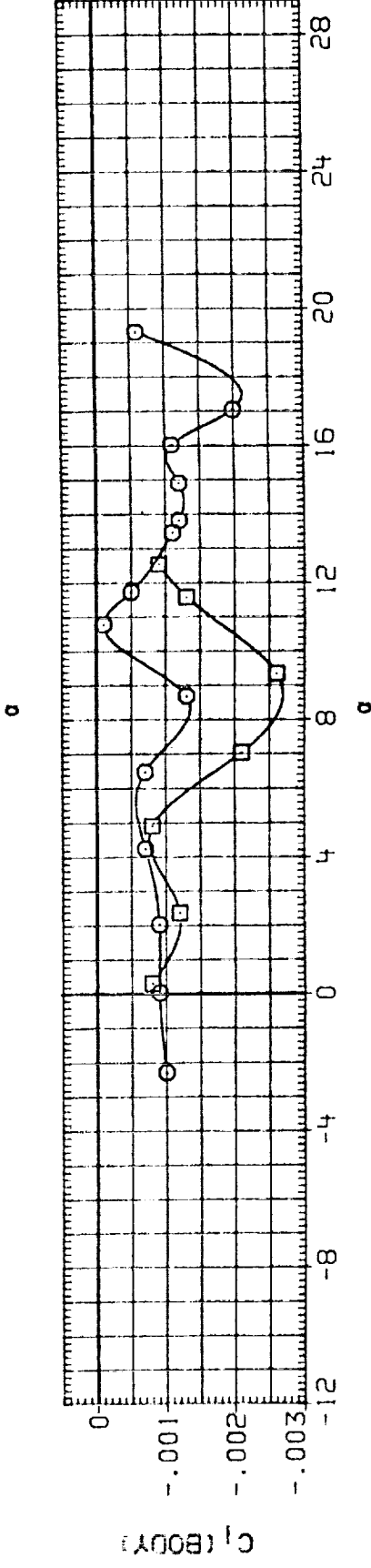
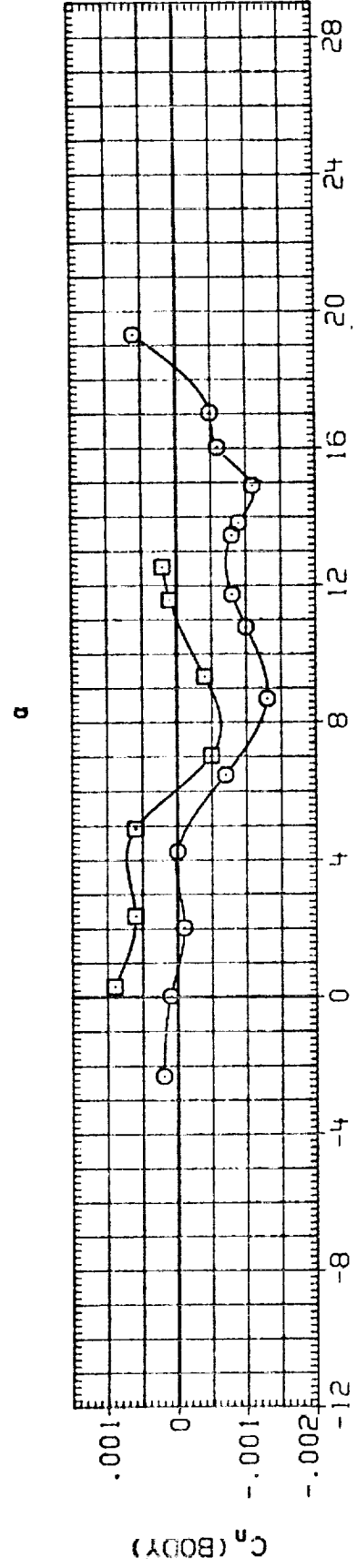
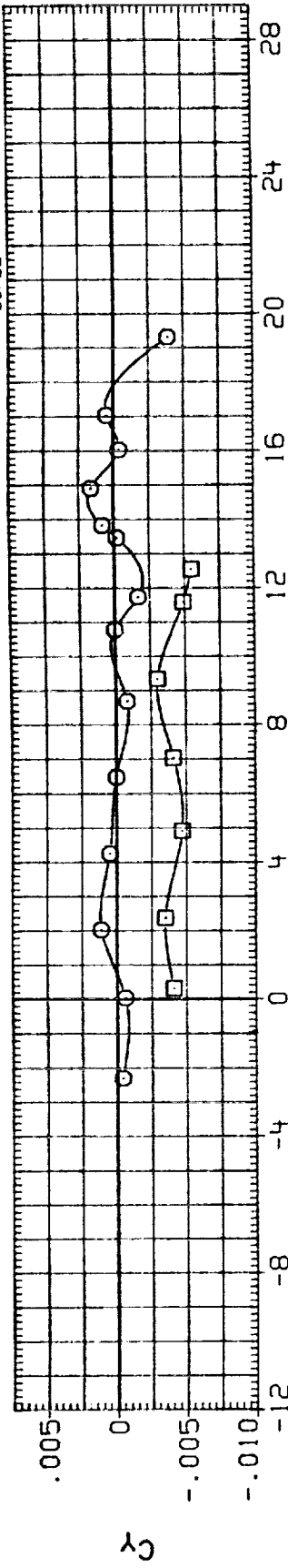


FIG. 35 EJECOR RUNS, IN PITCH, BETA = 0

(A) MACH = .90

| | | | | | | |
|-----------------|--|------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
| (CUK029) | LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 50.FT. |
| (CUK031) | LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON) | .000 | 8.000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

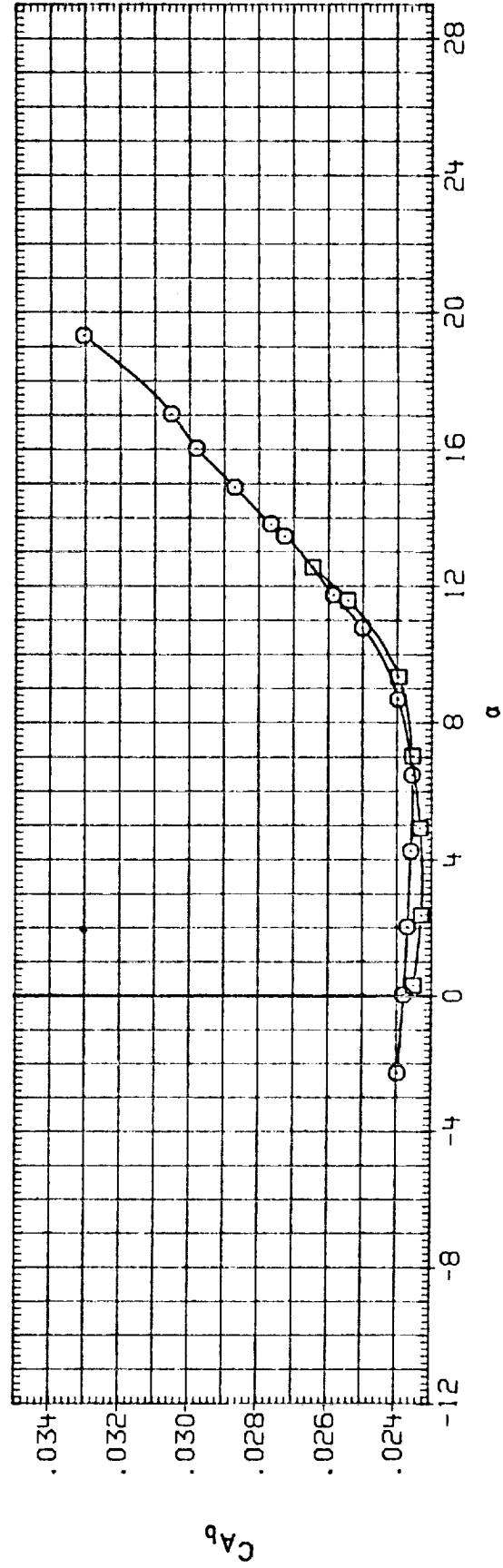
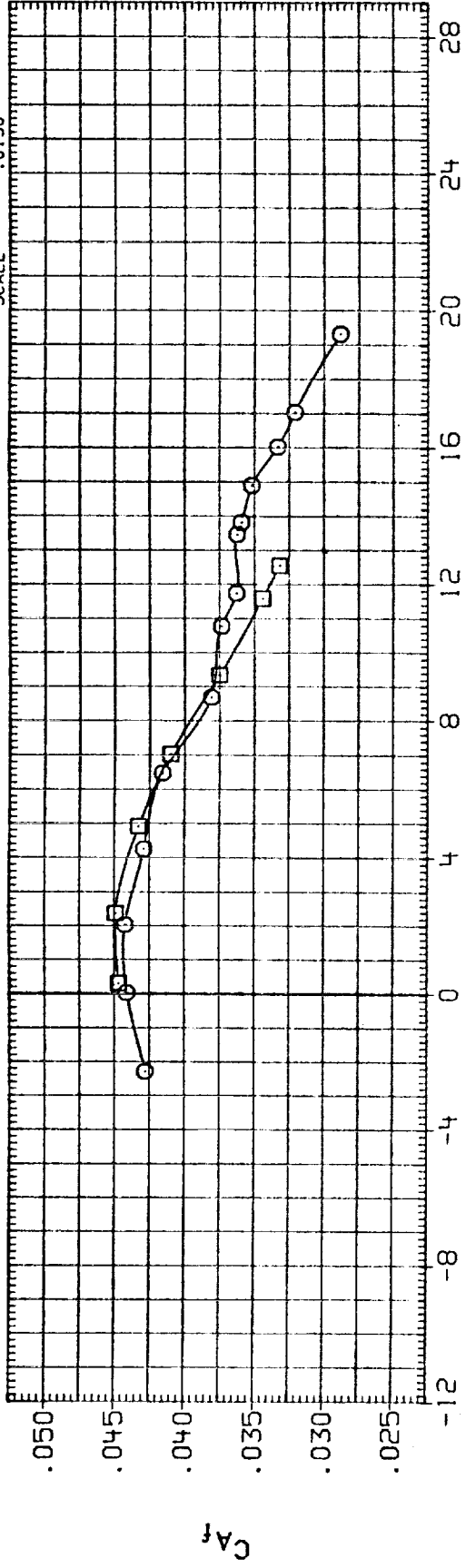


FIG. 35 EJECTOR RUNS, IN PITCH, BETA = 0

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK029) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK031) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIRLON

.000 4.500 .000 .000
 .000 8.000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

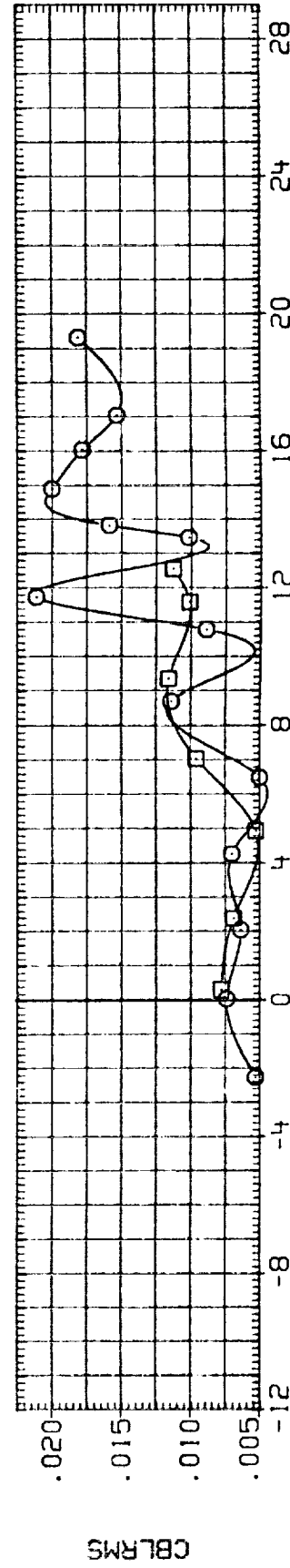
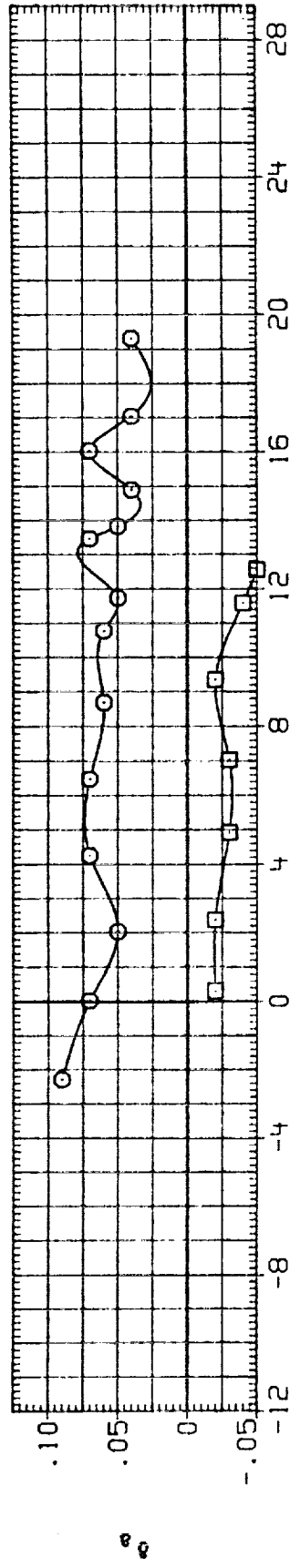
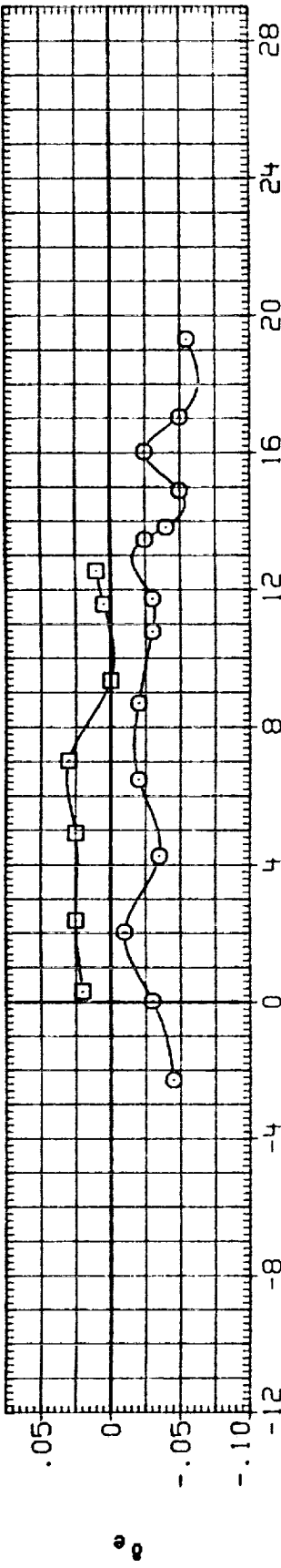


FIG. 35 EJECOR RUNS, IN PITCH, BETA = 0

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK042) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK044) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA 2.000
 RN/L 4.500
 8.000
 ELEVON .000
 .000
 AIRLON .000
 .000

REFERENCE INFORMATION
 SREF 2590.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

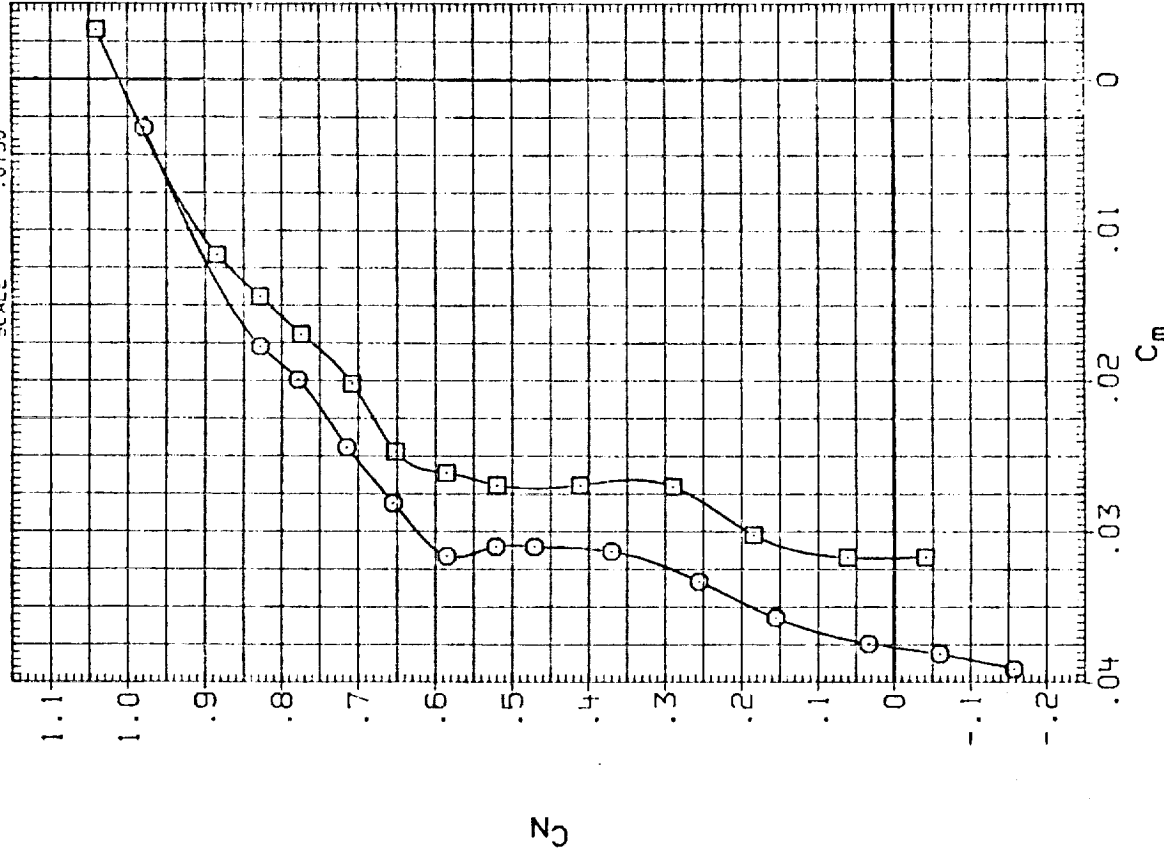
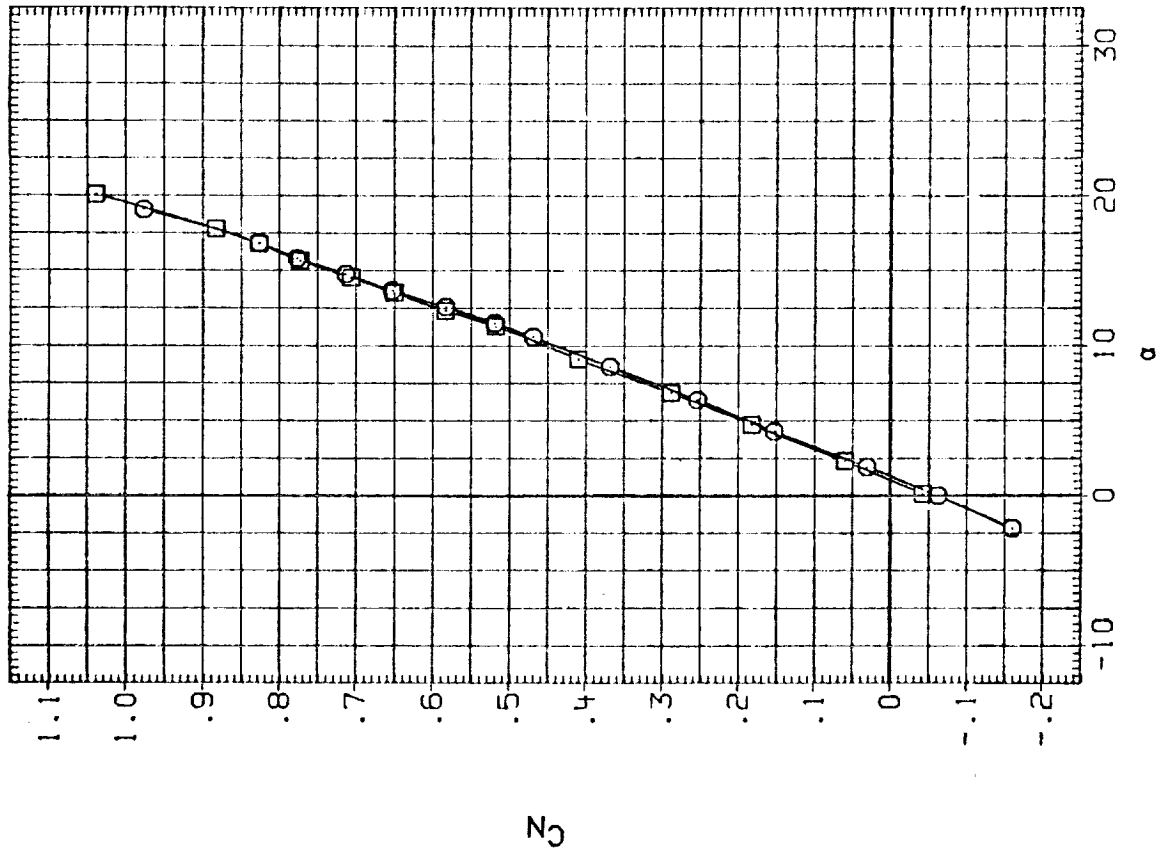


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK042) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)
 (RUK044) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

BETA 2.000
 RN/L 4.500
 ELEVON .000
 AIRLON .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

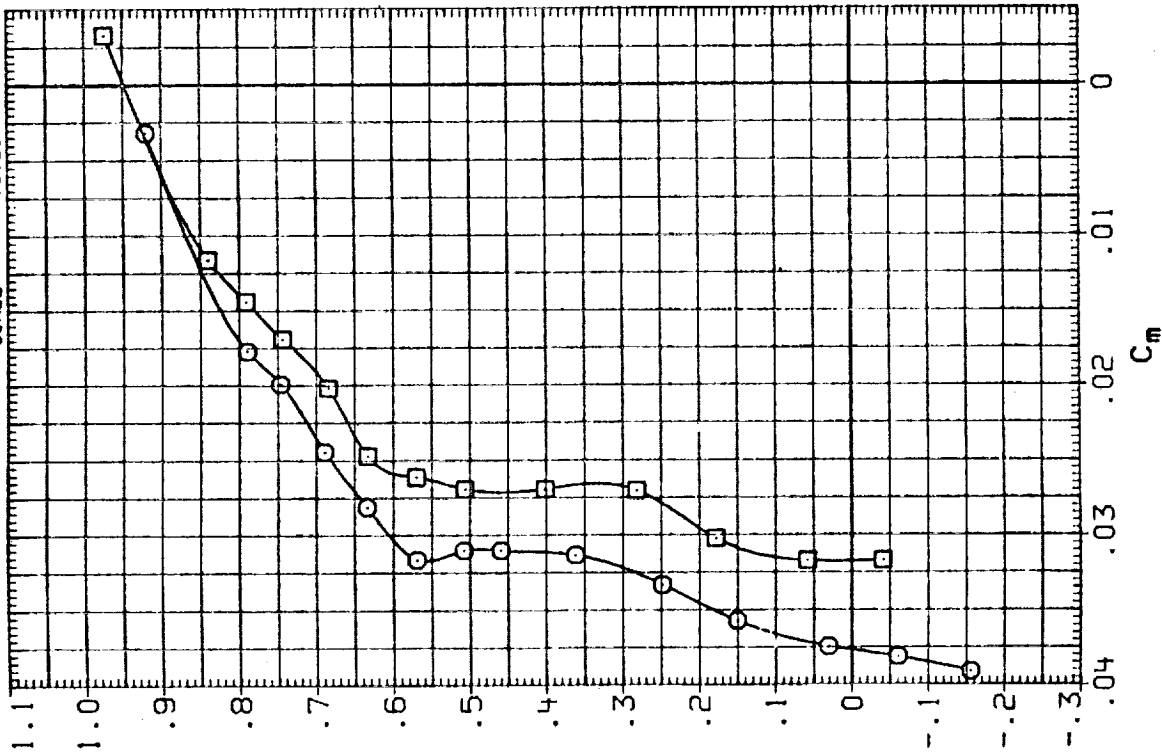
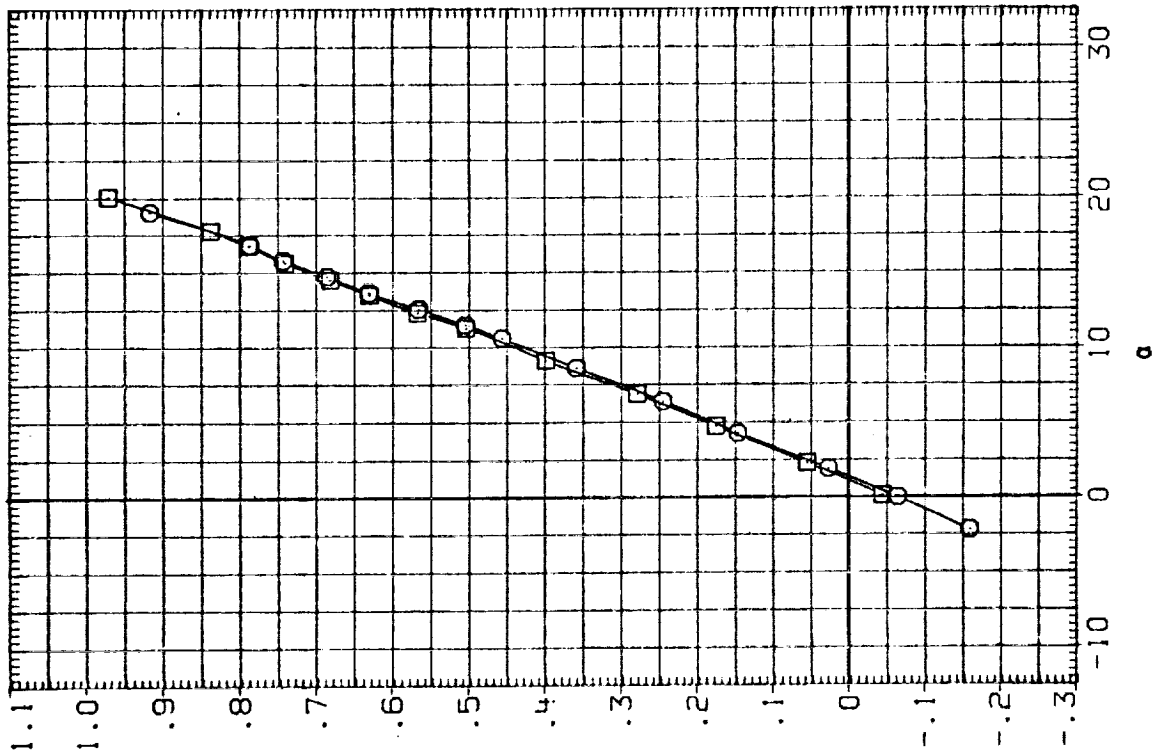


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK042) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK044) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA 2.000 2.000
 RN/L 4.500 8.000
 ELEVON .000 .000
 AIRLON .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

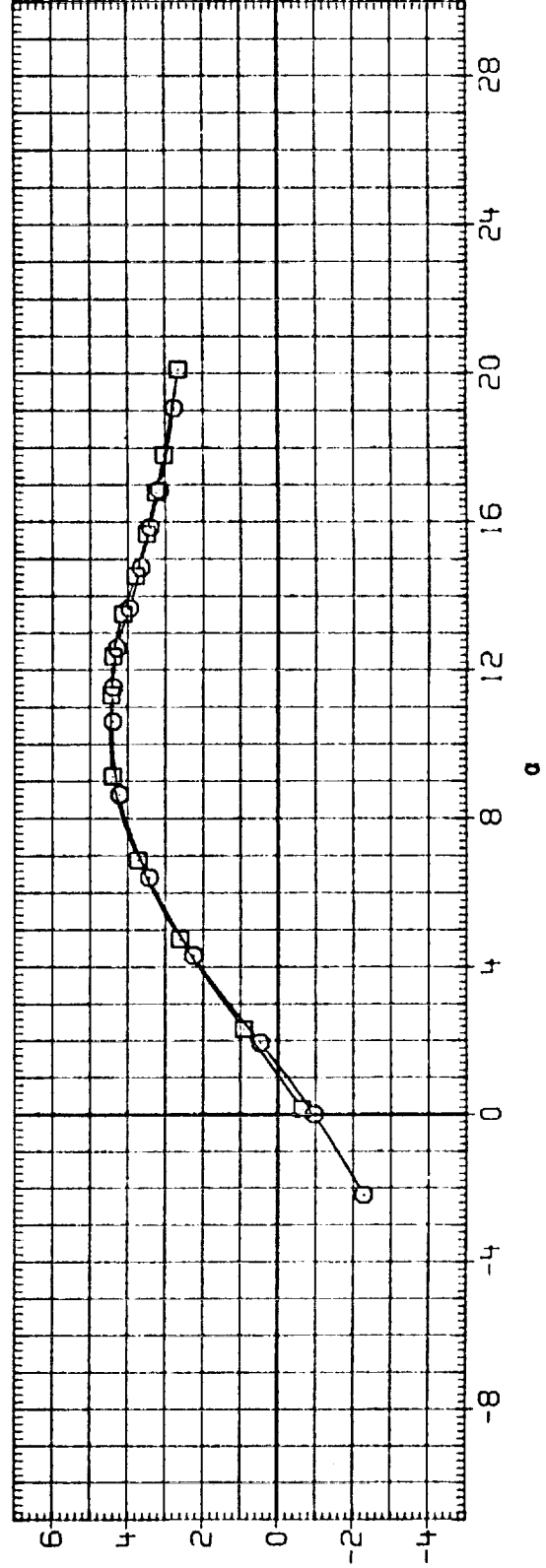
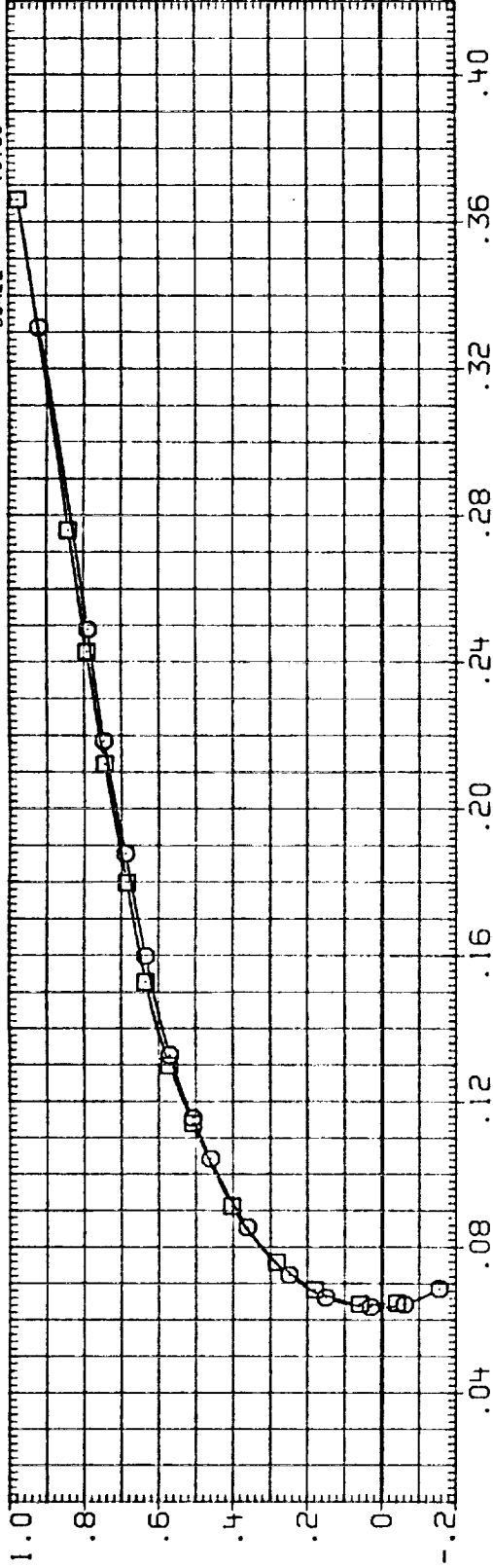


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK042) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK044) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA FN/L ELEVON AIRLON

2.000 4.500 .000 .000

2.000 8.000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6900 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

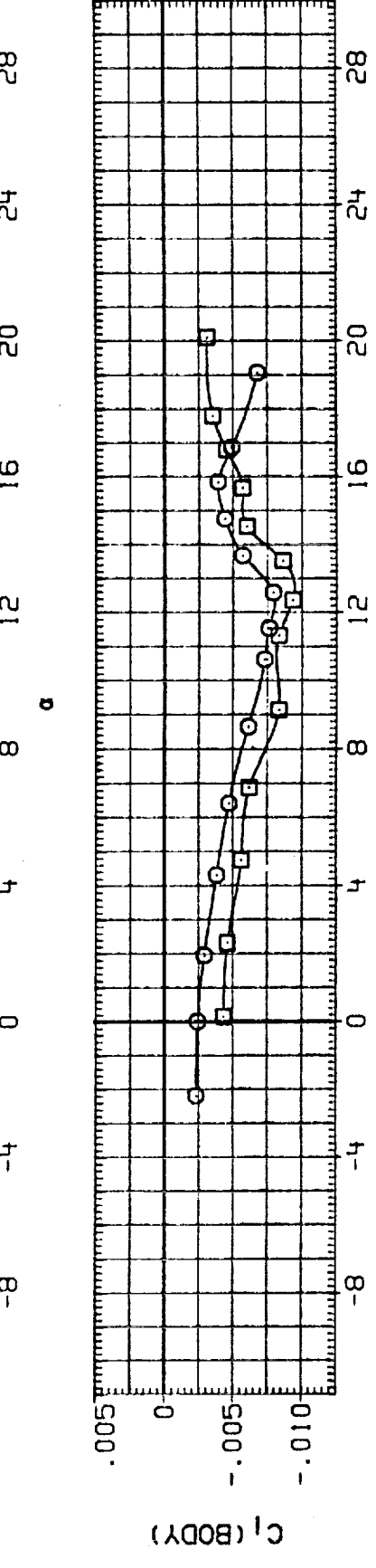
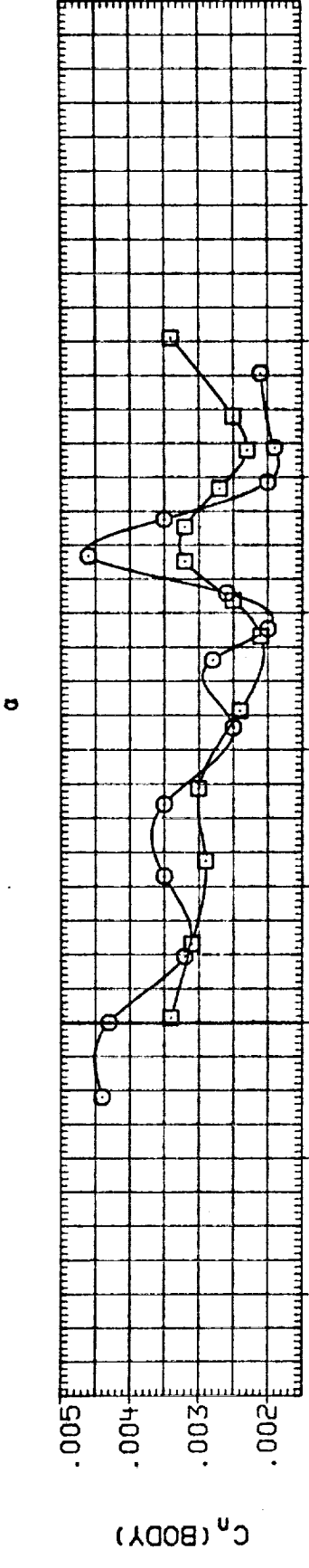
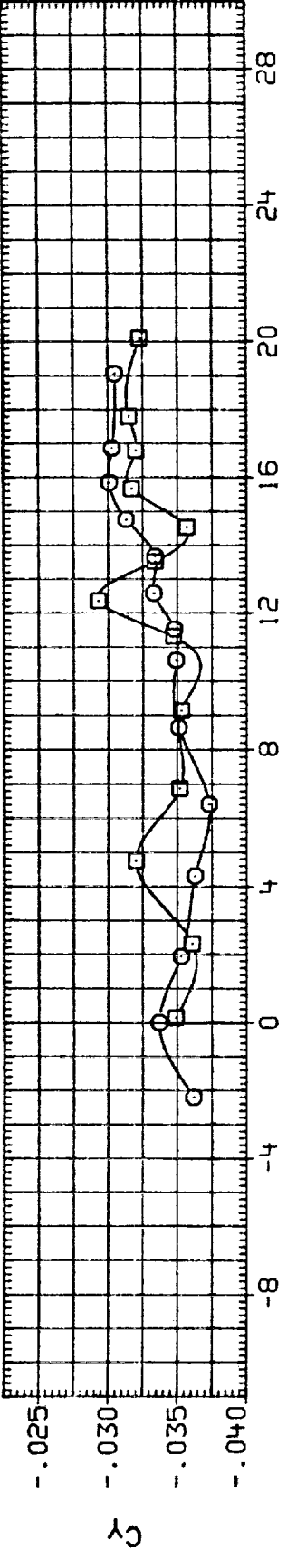


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .60

| | | | | | | |
|-----------------|--|-------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
| (CUK042) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 2.000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK044) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 2.000 | 8.000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

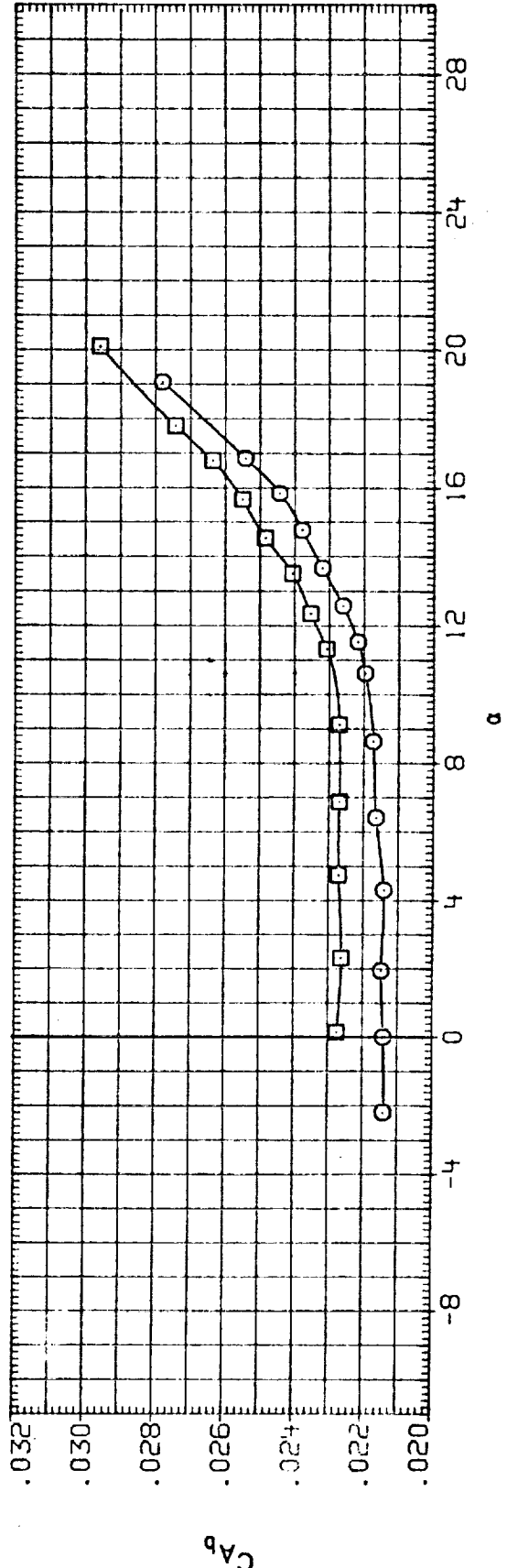
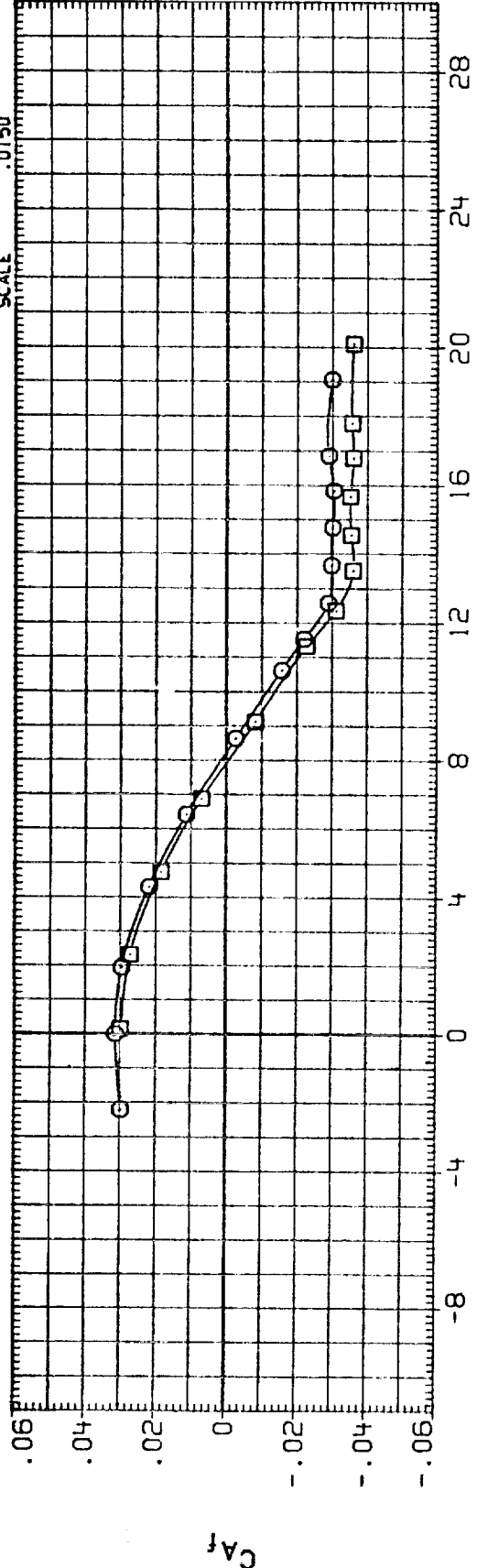


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK042) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK044) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA 2.000 4.500
 2.000 8.000
 PN/L ELEVON AIRLON

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

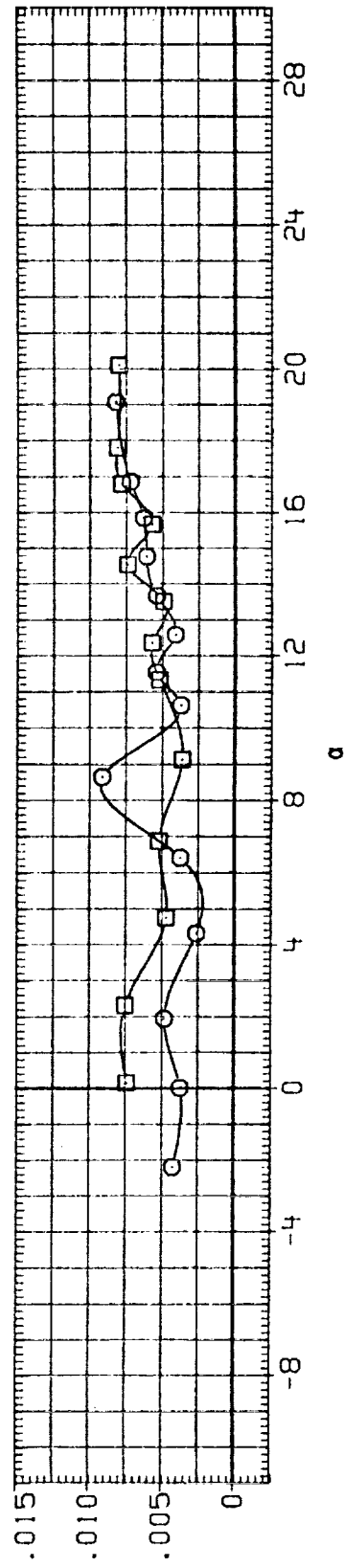
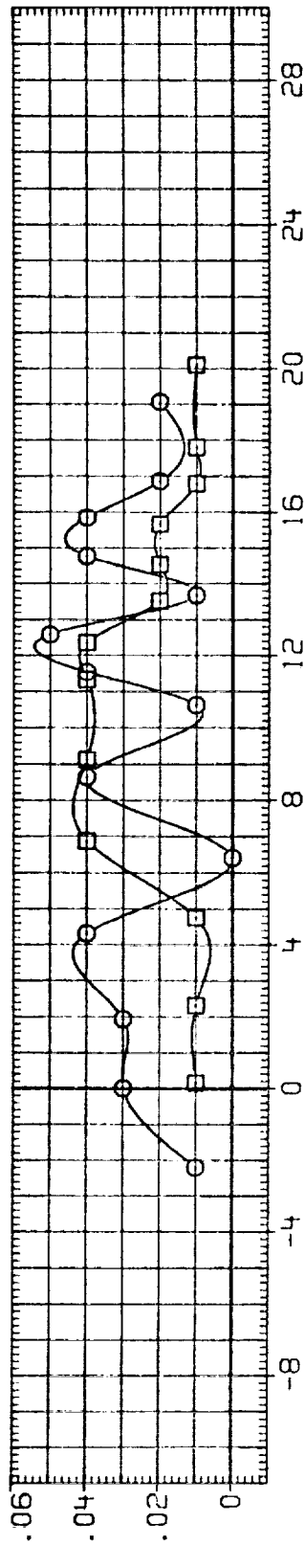
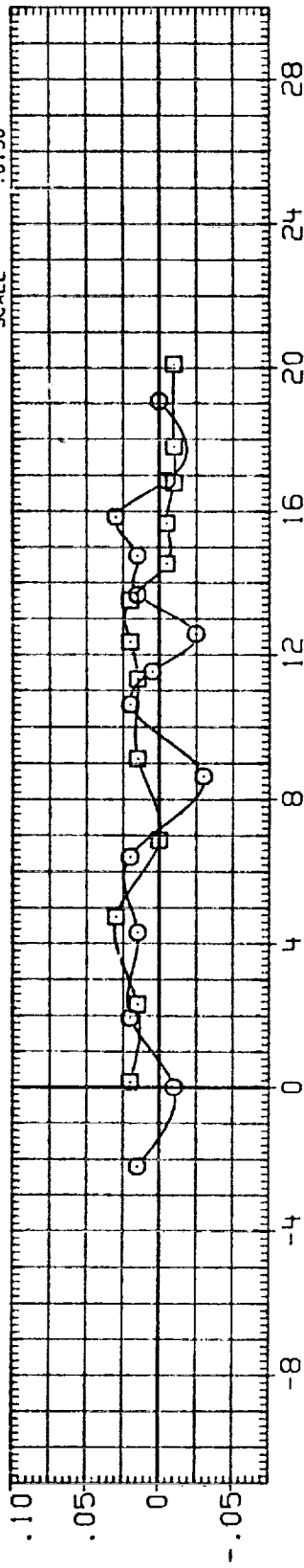


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK042) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK044) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA 2.000
 RN/L 4.500
 ELEVON .000
 AIRLON .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

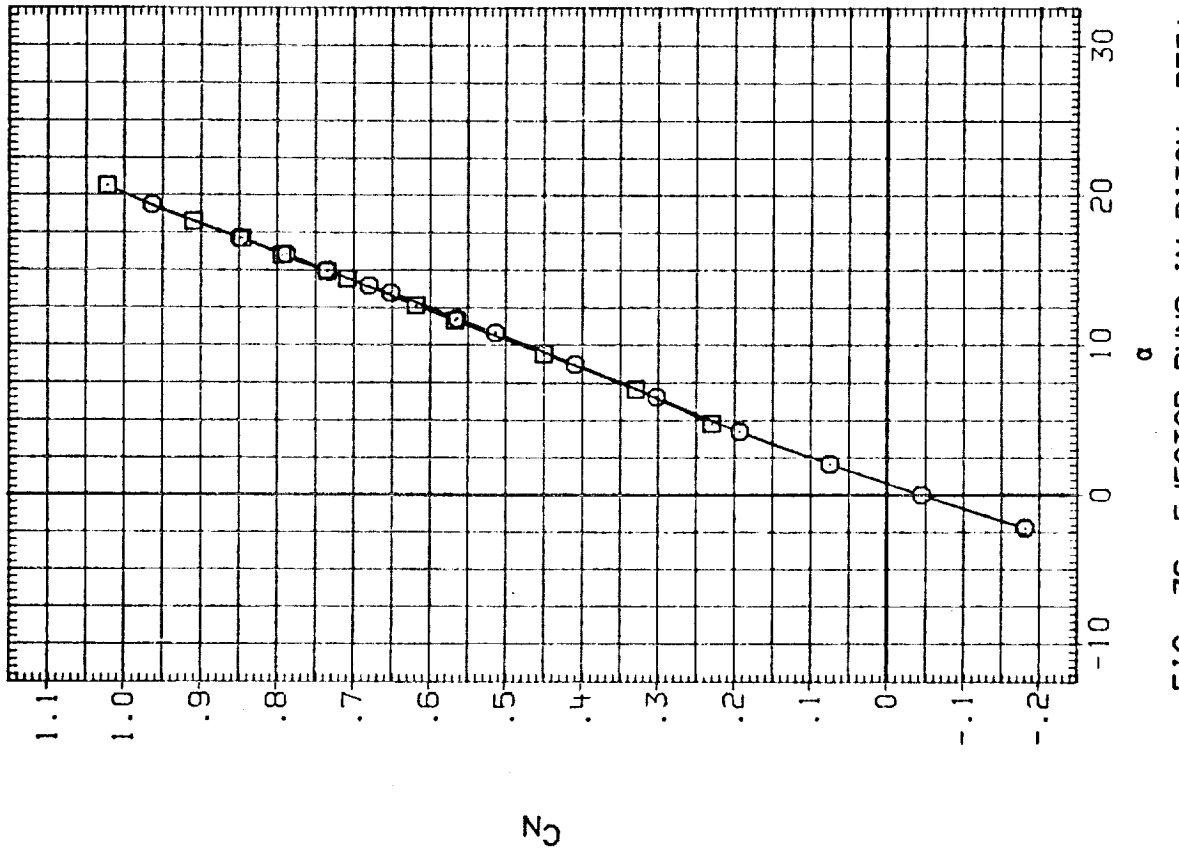
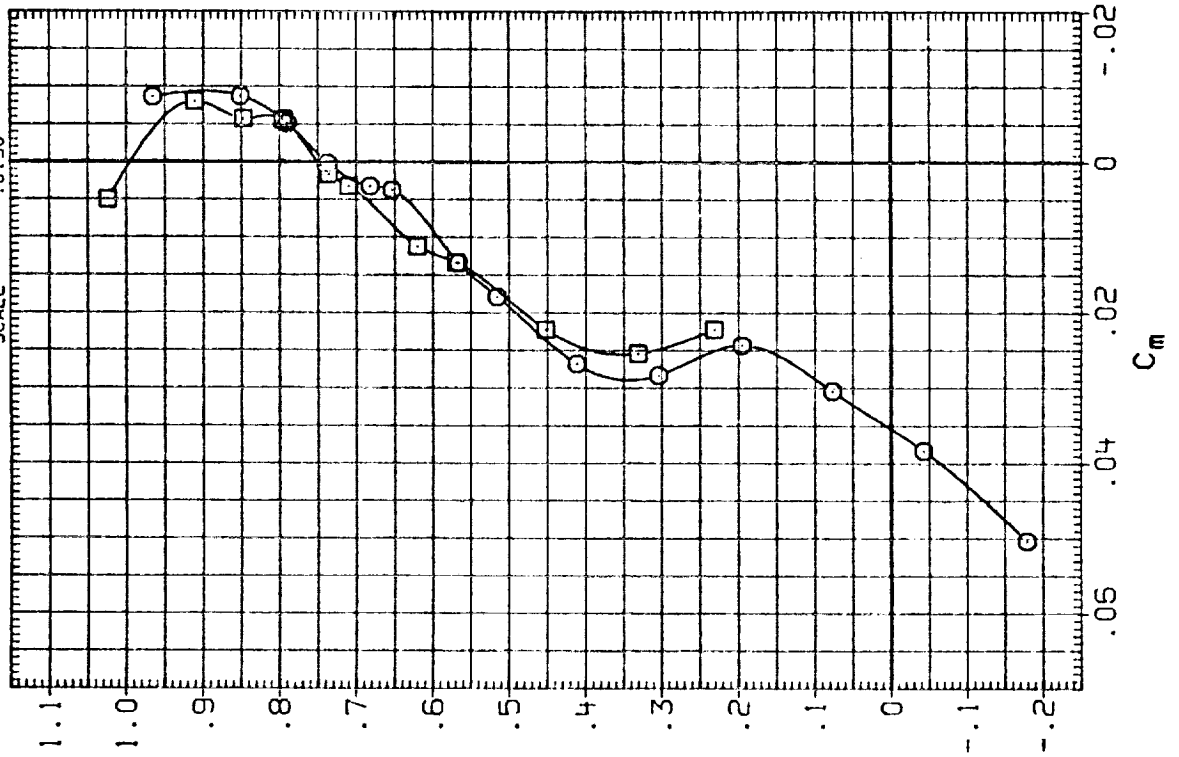


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK042) ○ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 (RUK044) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

BETA 2.000 AIRLON .000
 2.000 ELEVON .000
 RN/L 4.500
 8.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

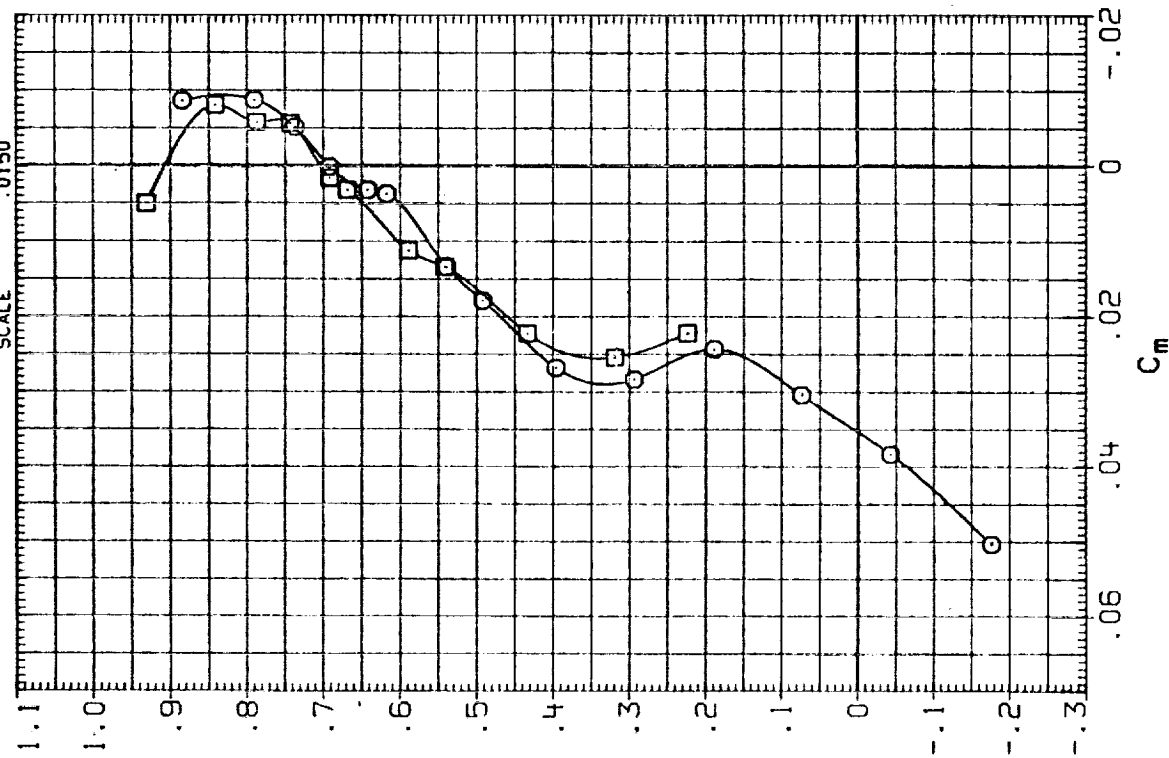
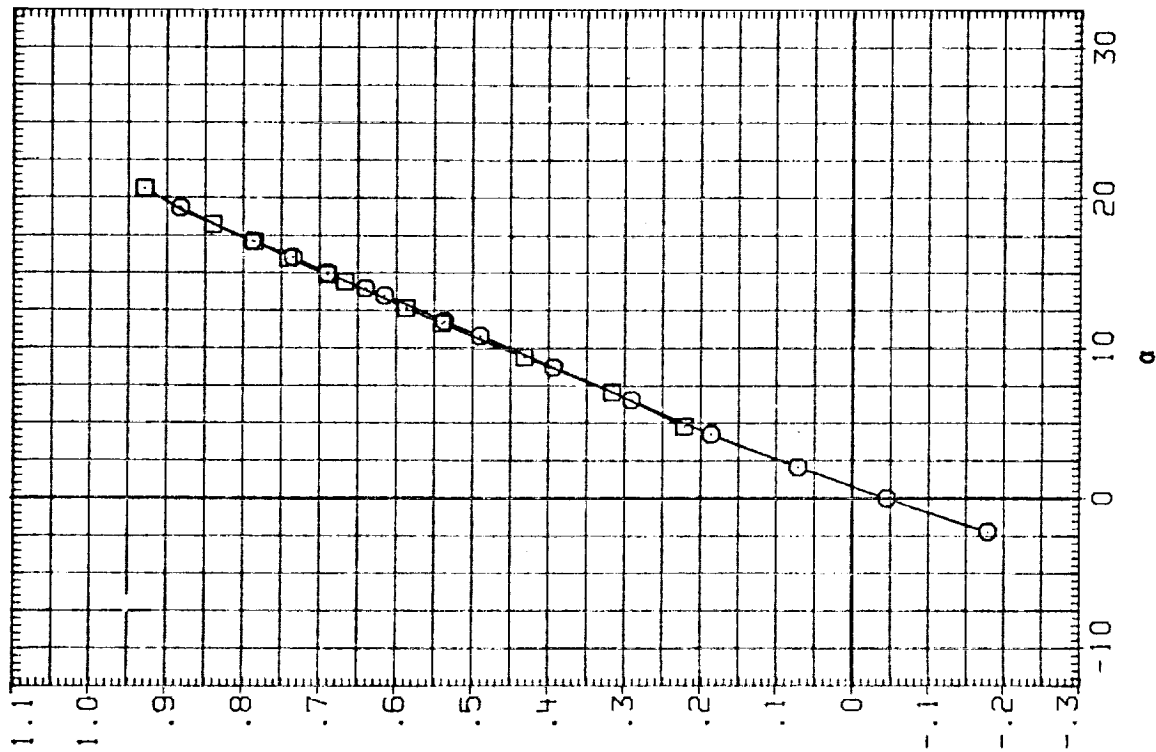


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK042) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK044) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AILRON

2.000 4.500 .000 .000

2.000 8.000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

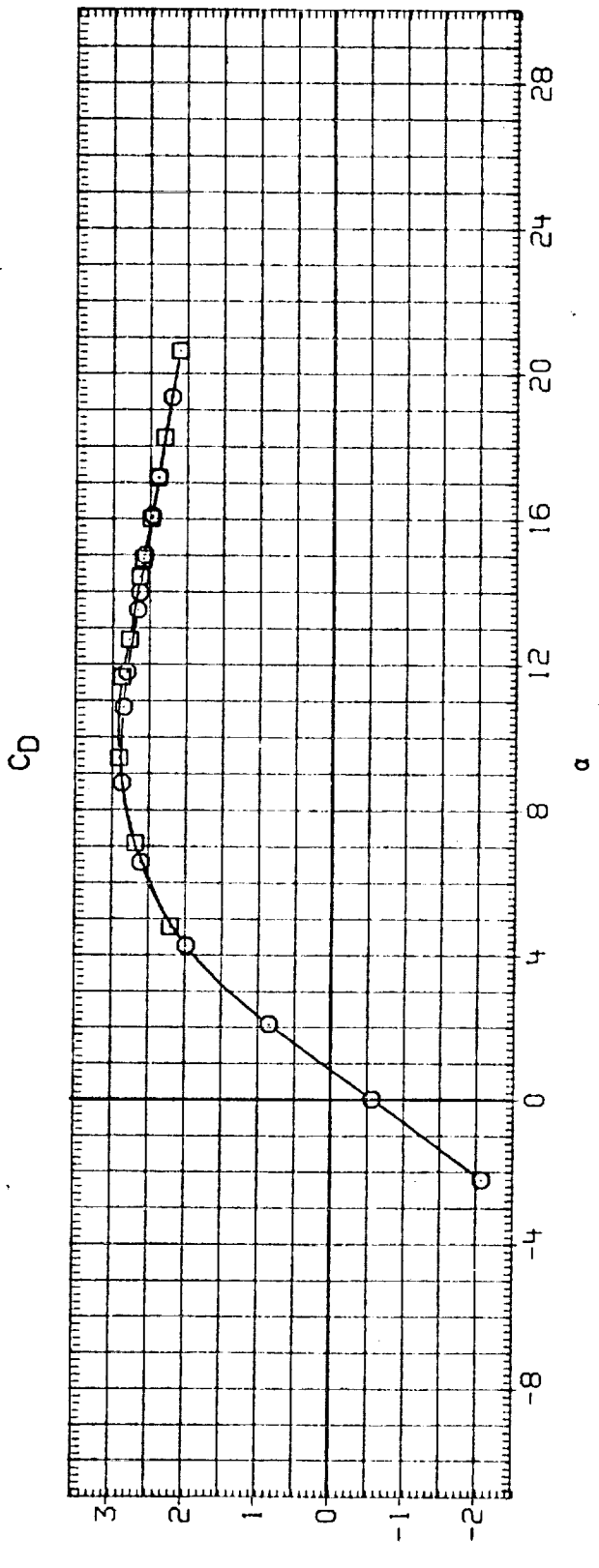
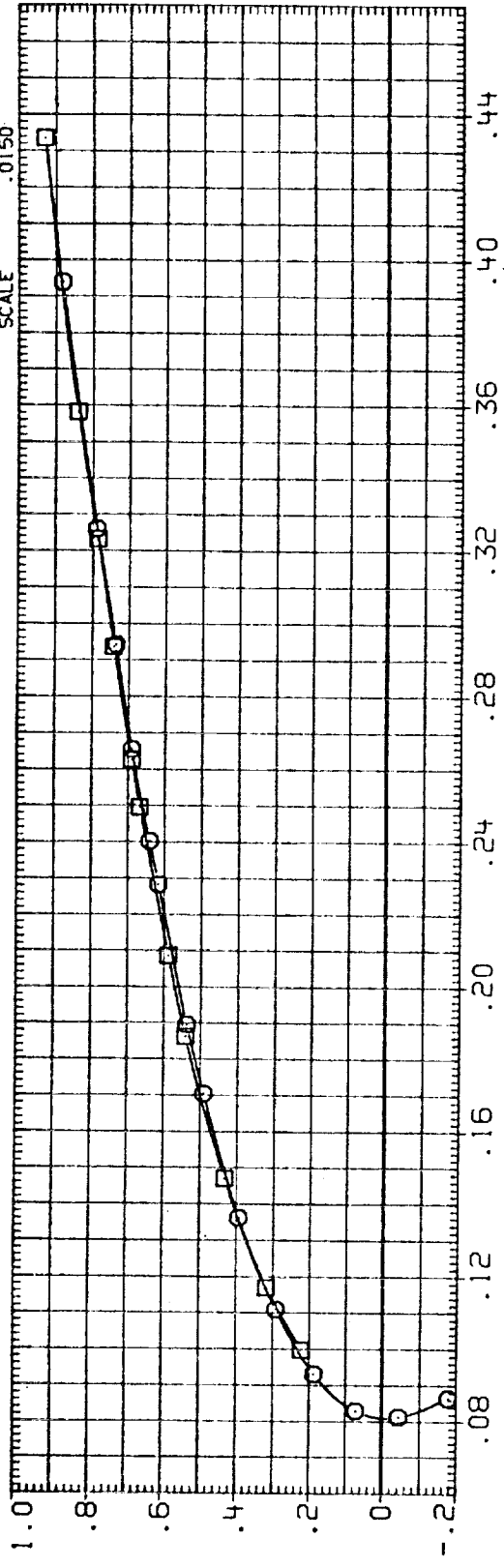


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK042) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK044) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA 2.000

FN/L 4.500

ELEVON .000

AILRON .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

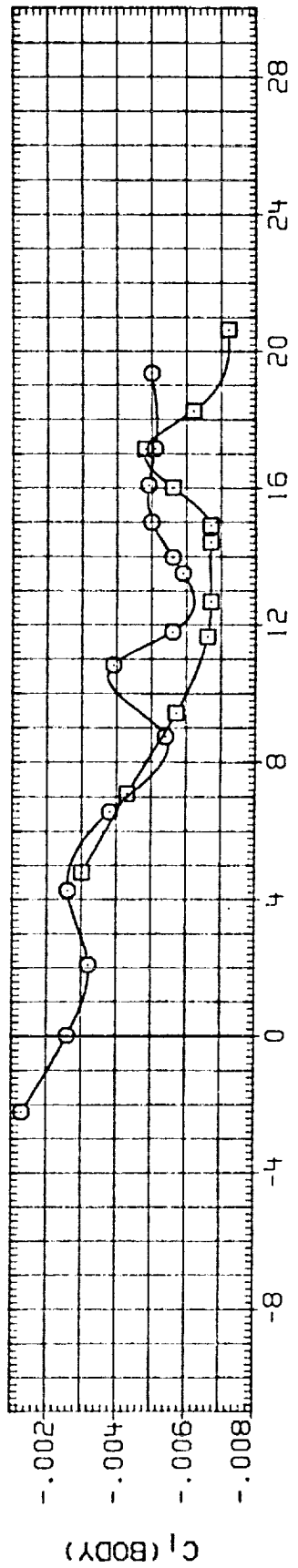
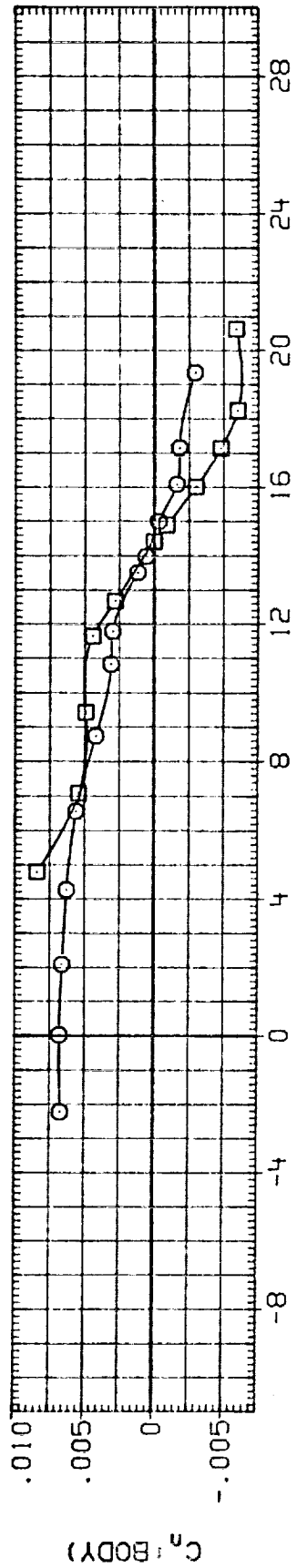
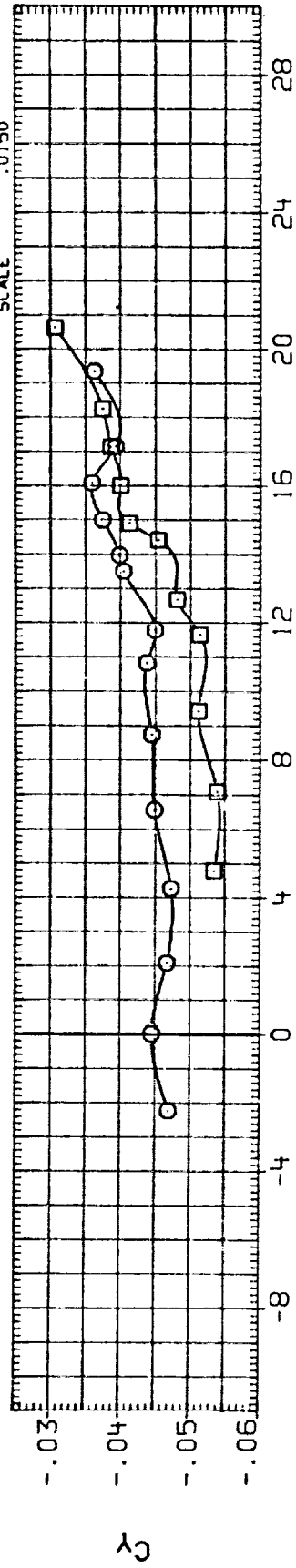


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK042) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK044) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA 2.000

RN/L 4.500

ELEVON .000

AIRLON .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

YMRP 1076.7000 IN. XO

ZMRP .0000 IN. YO

SCALE 375.0000 IN. ZO

 .0150

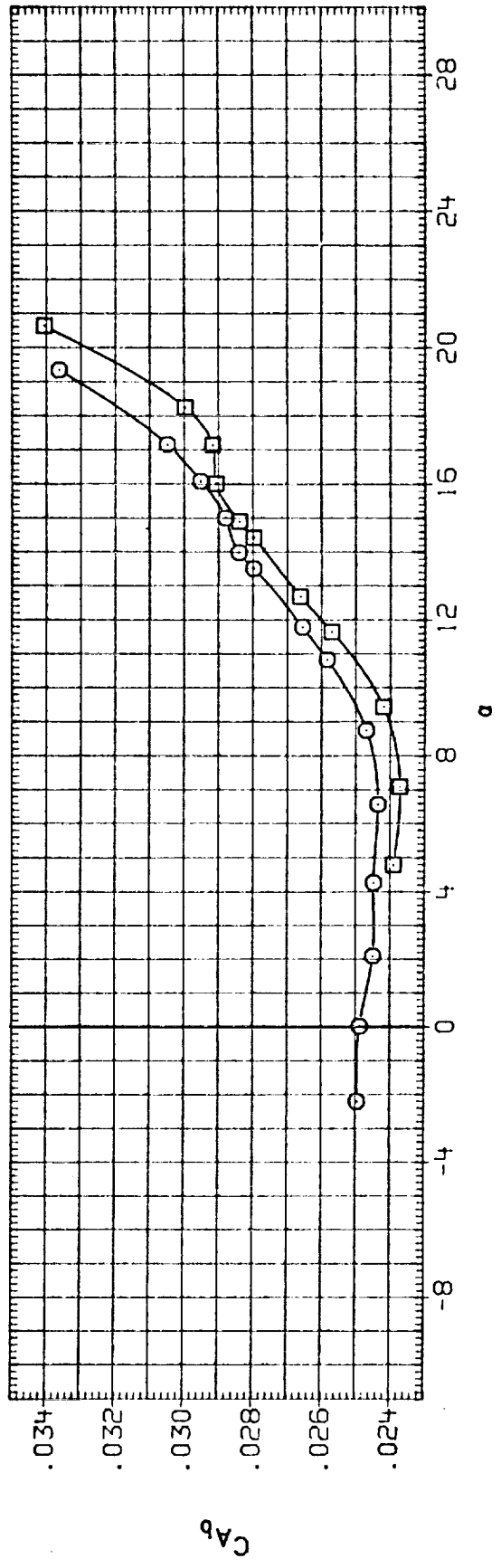
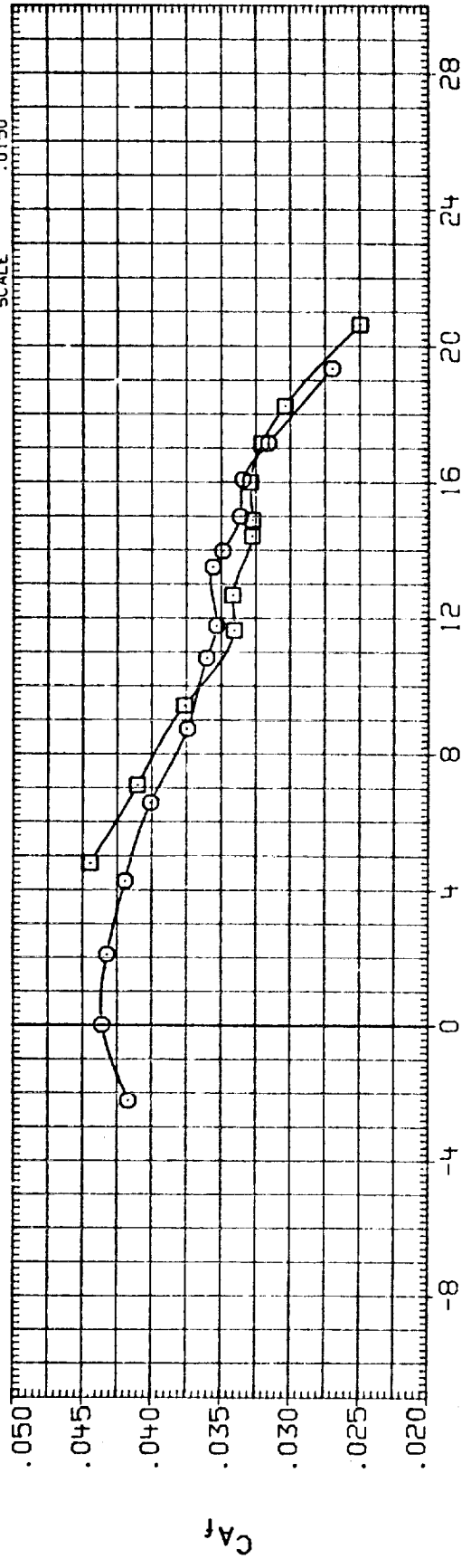


FIG. 36 EJECOR RUNS, IN PITCH, BETA = 2

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK042) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK044) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA 2.000 2.000

RN/L 4.500 8.000

ELEVON .000 .000

AILRON .000 .000

REFERENCE INFORMATION

SREF 2890.0000 50. FT.

LREF 474.8000 INCHES

BREF 936.8800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE 0.150

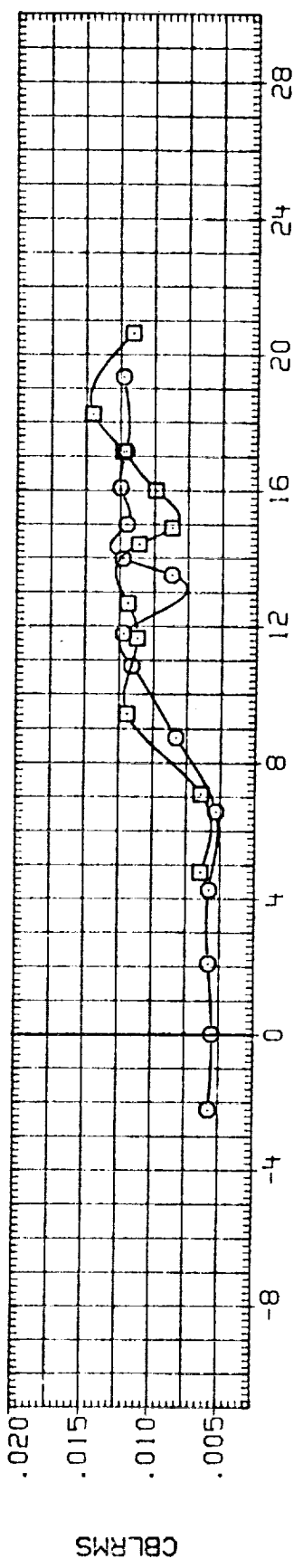
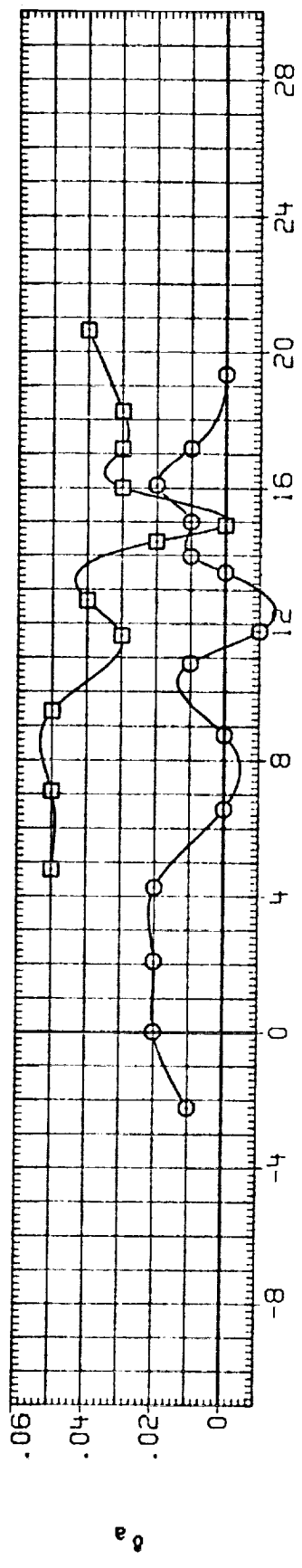
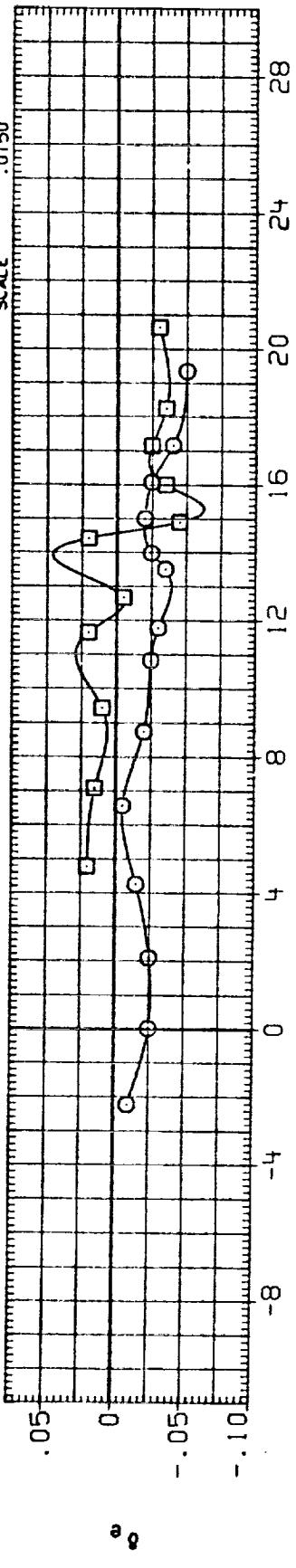


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .90

| | | | | | | |
|-----------------|--|-------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AILRON | REFERENCE INFORMATION |
| (RUK068) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK070) | LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

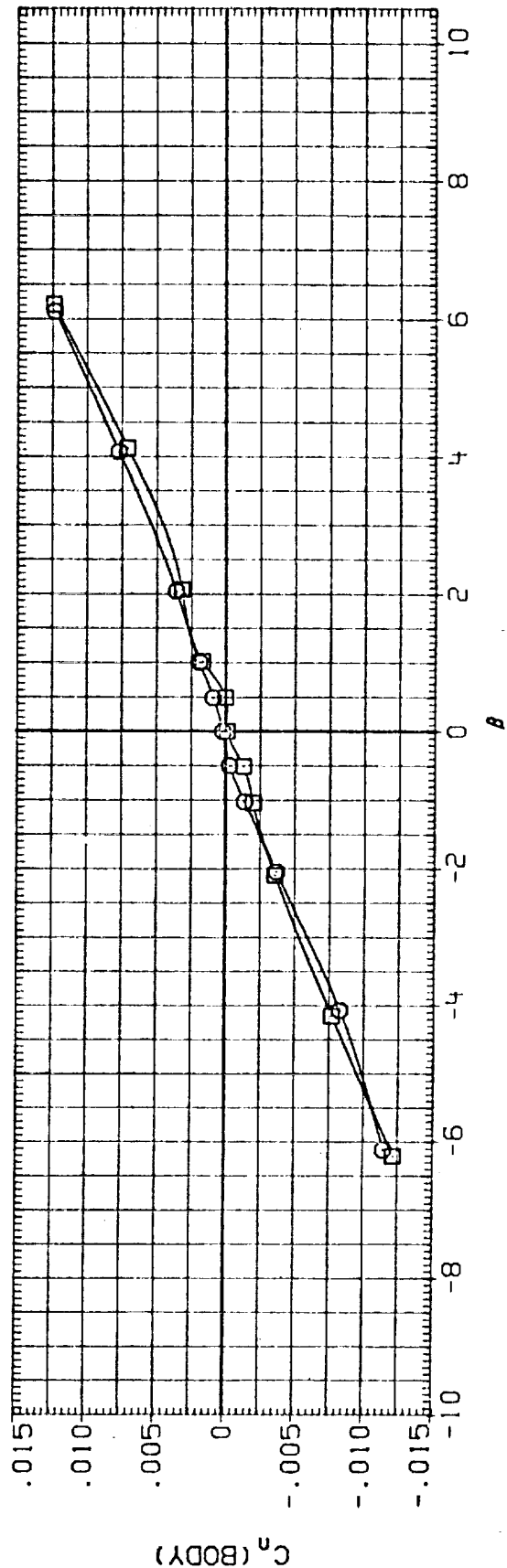
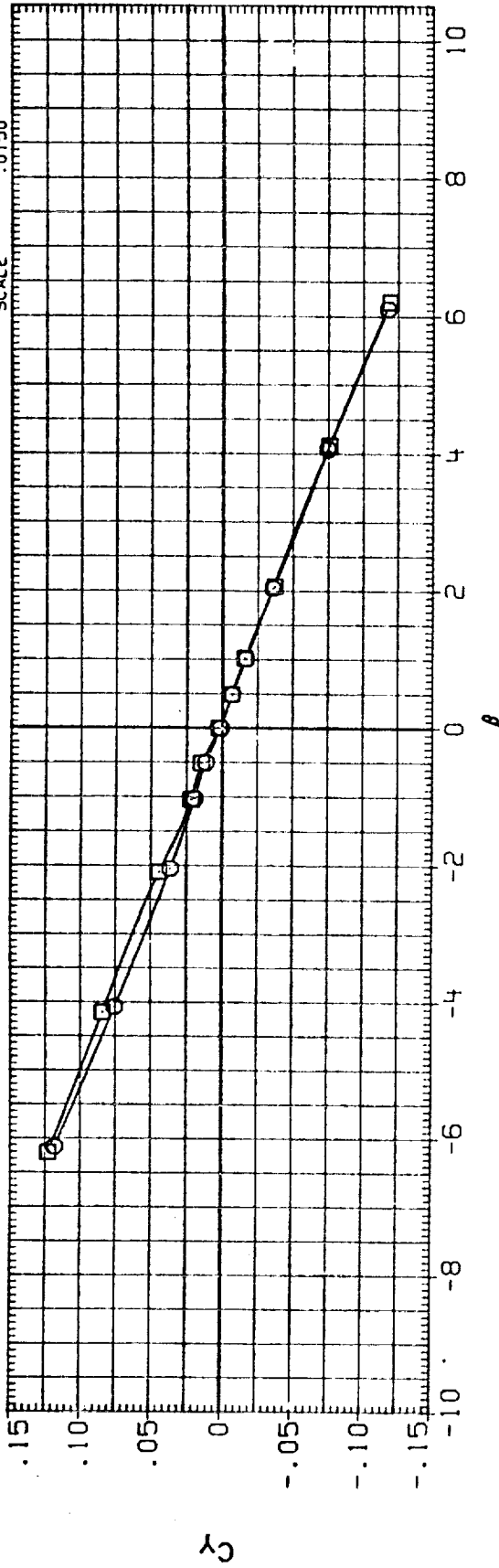


FIG. 37 EJECTOR RUNS IN SIDESLIP, ALPHA = 0

(A) MACH = .60

| | | | | | | |
|-----------------|--|-------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AILRON | REFERENCE INFORMATION |
| (RUK068) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK070) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 8.000 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

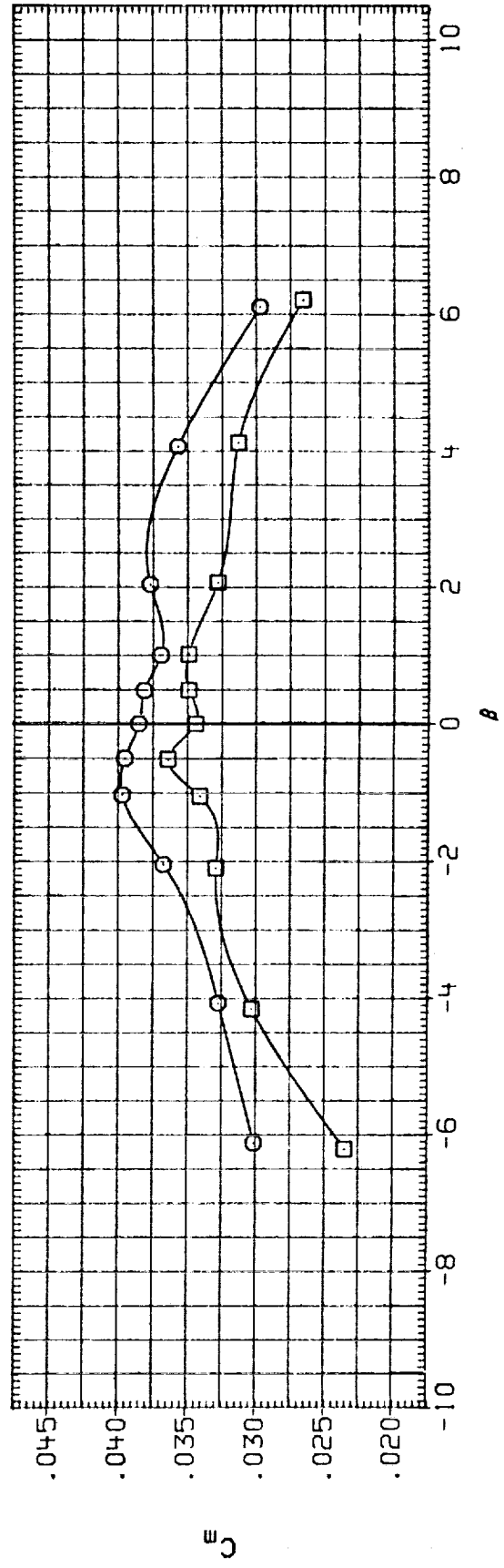
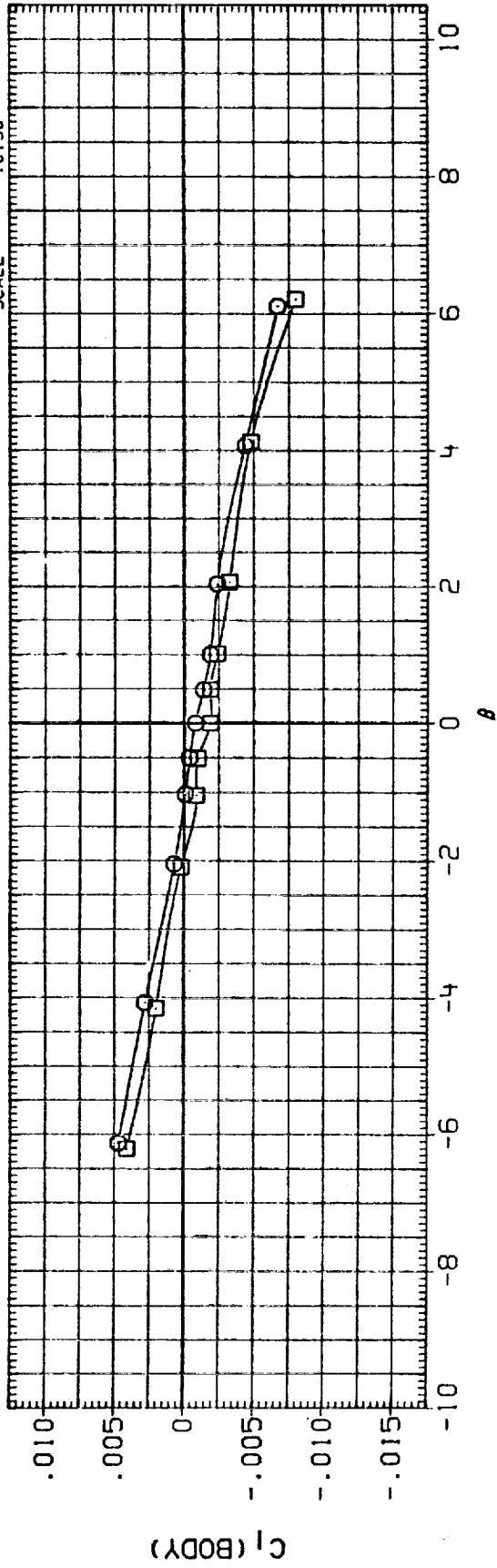


FIG. 37 EJECTOR RUNS IN SIDESLIP, ALPHA = 0

(A) MACH = .60

| | | | | | | |
|-----------------|--|-------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AIRLON | REFERENCE INFORMATION |
| (RUK068) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK070) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

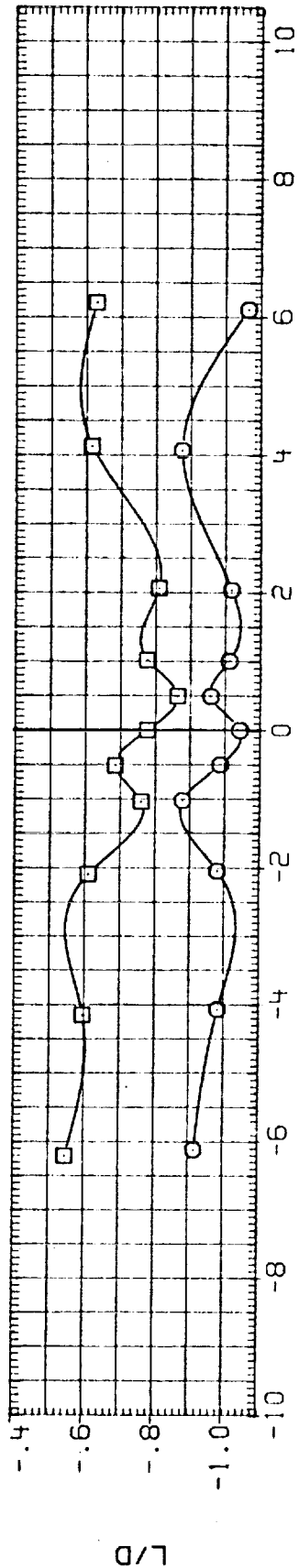
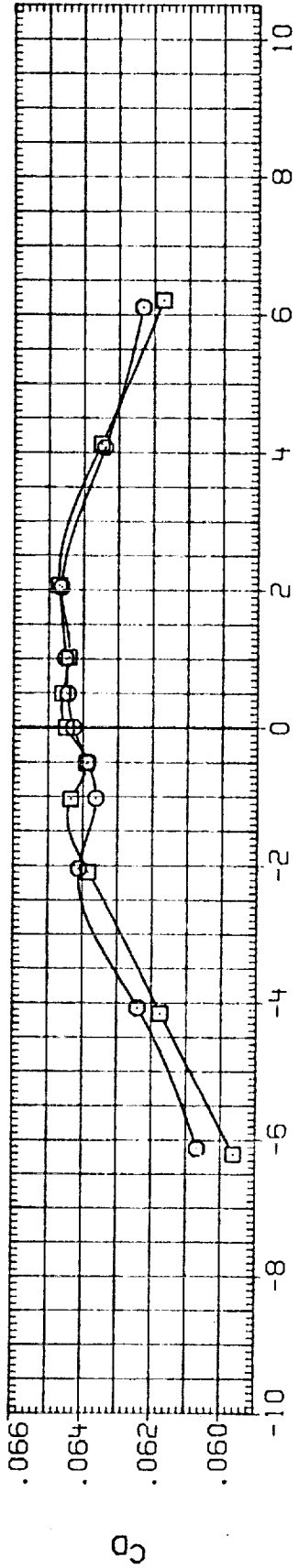
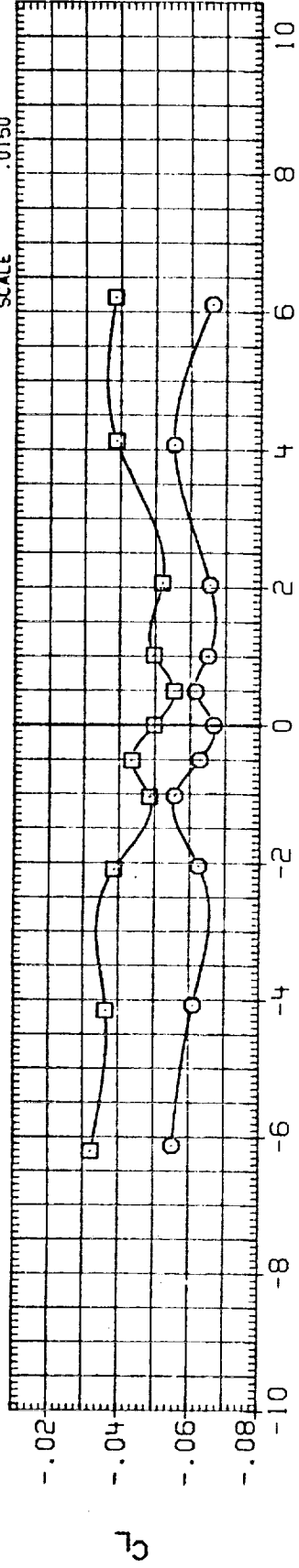


FIG. 37 EJECOR RUNS IN SIDESLIP, ALPHA = 0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CUK068) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK070) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA ELEVON AILRON
 4.500 .000 .000
 8.000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

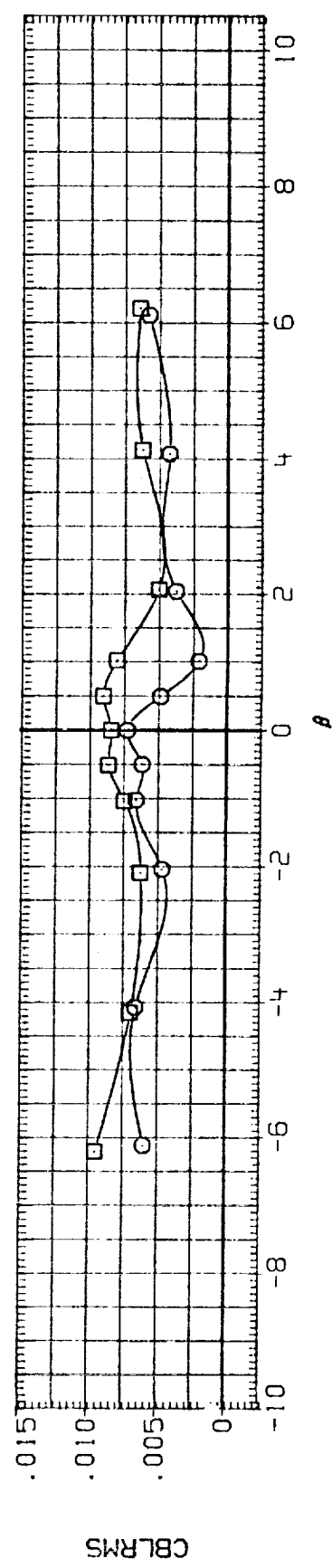
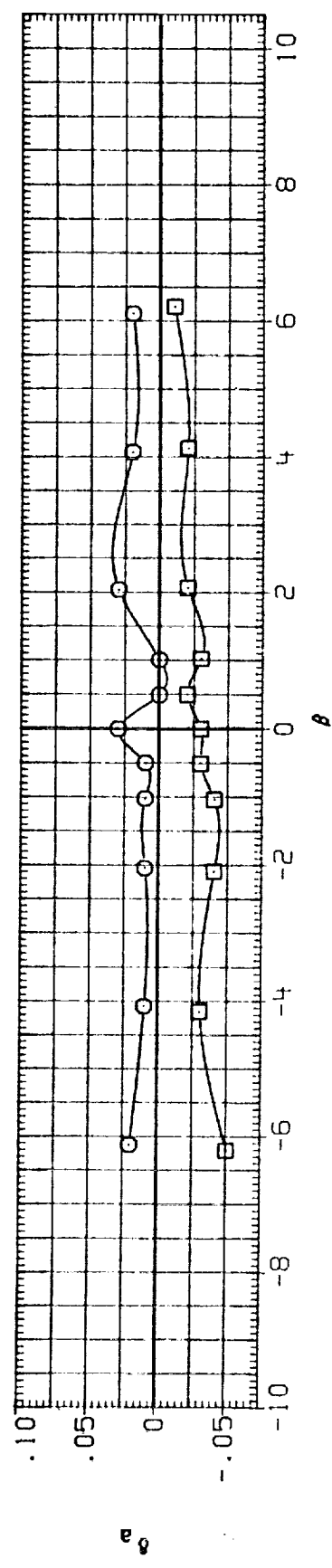
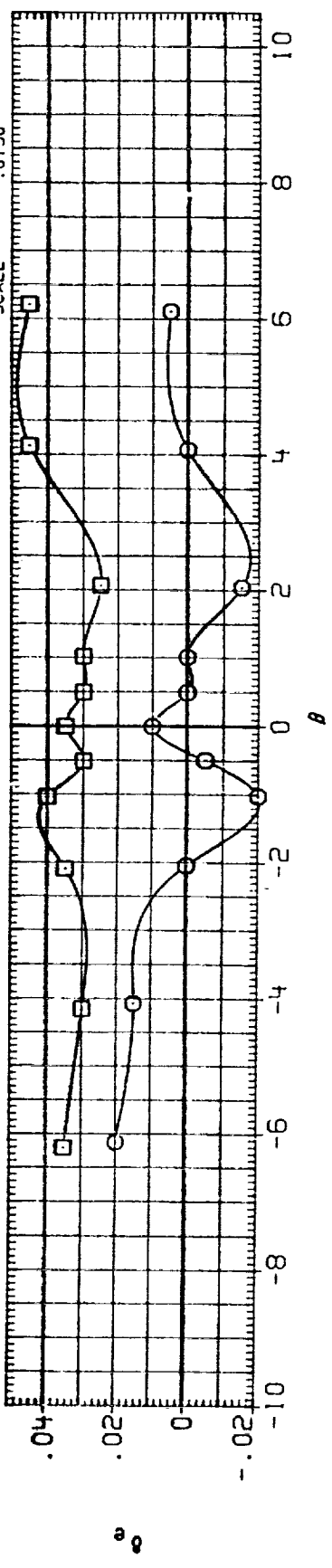


FIG. 37 EJECOR RUNS IN SIDESLIP, ALPHA = 0

(A) MACH = .60

| | | | | | | |
|-----------------|--|-------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AIRLON | REFERENCE INFORMATION |
| (RUK068) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK070) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

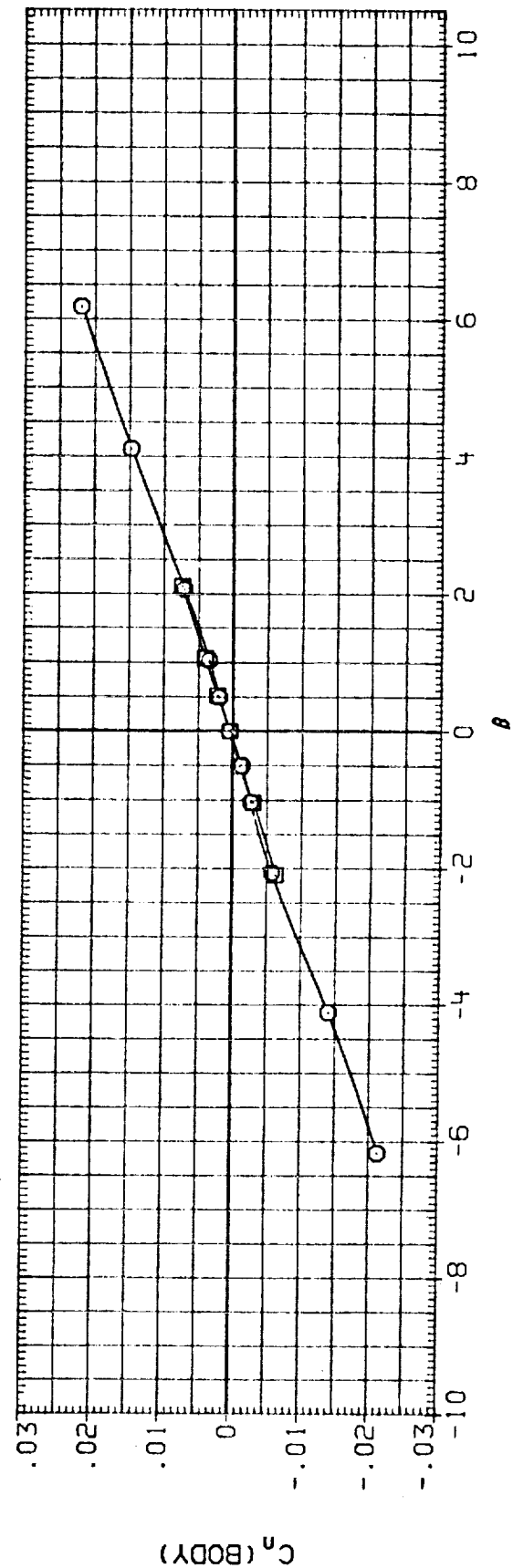
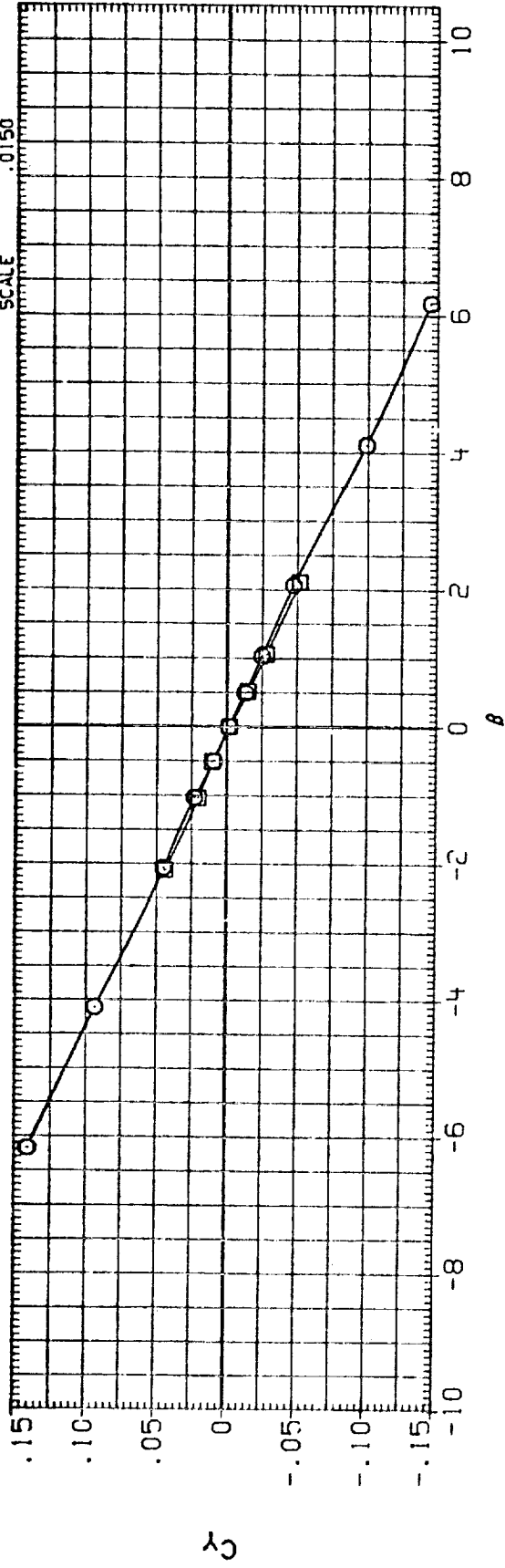




FIG. 37 EJECTOR RUNS IN SIDESLIP, ALPHA = 0

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK068)  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK070)  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA ELEVON AIRLON

4.500 .000 .000 .000

8.000 .000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

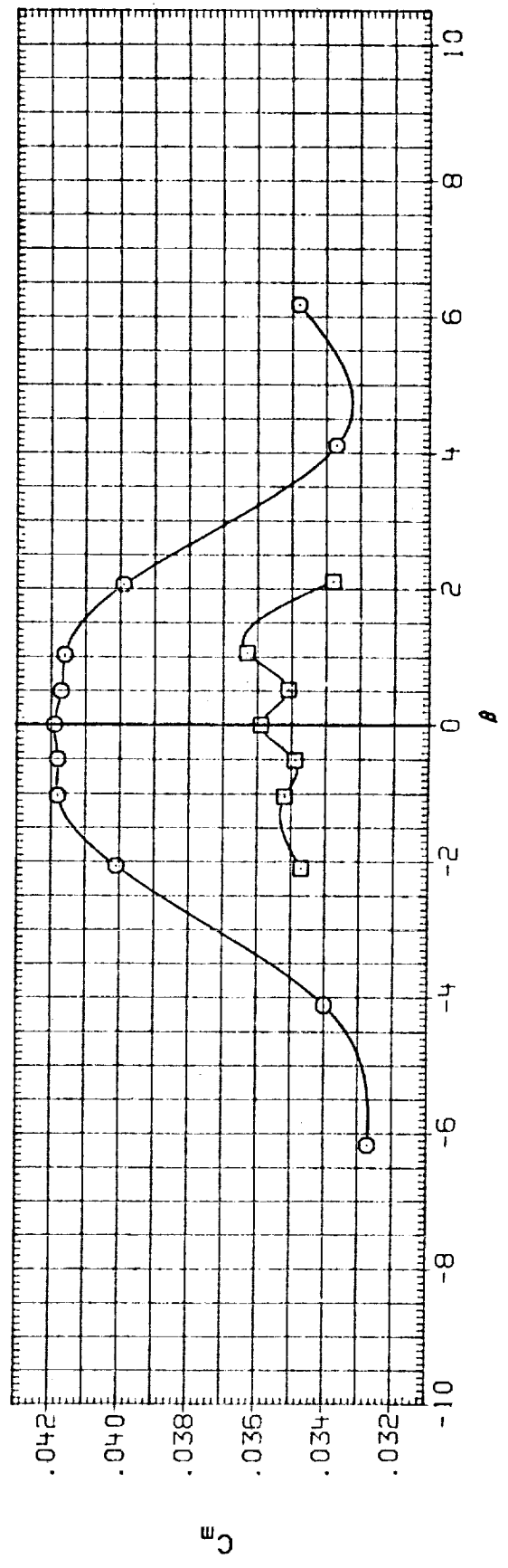
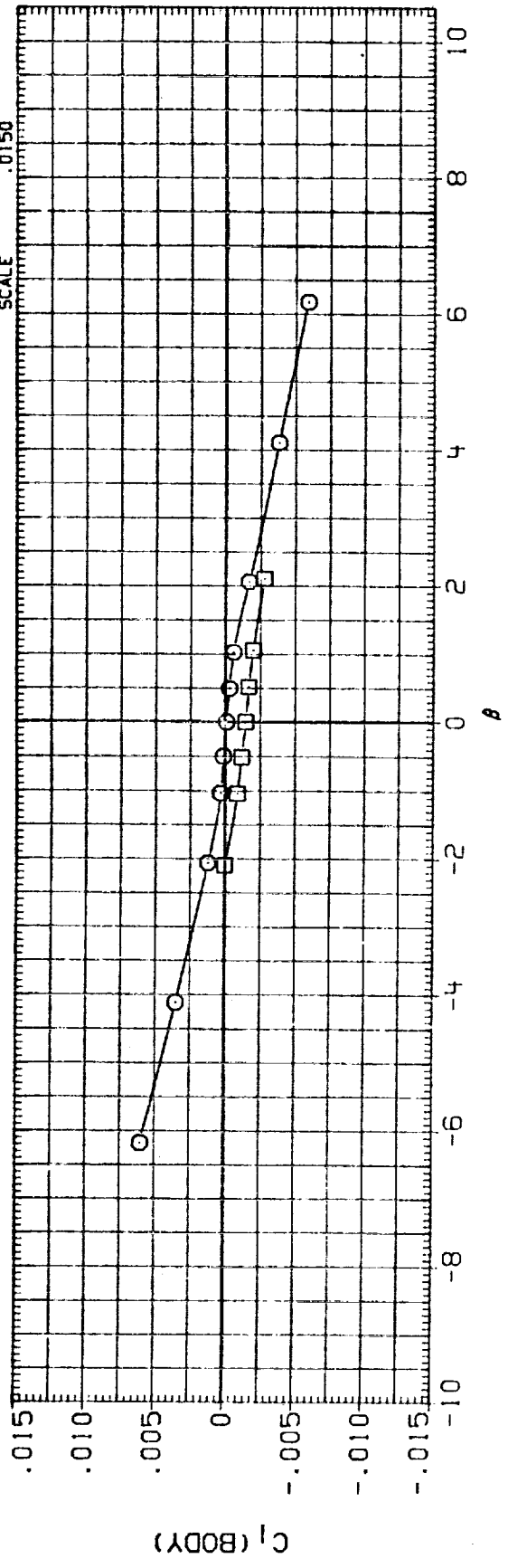


FIG. 37 EJECOR RUNS IN SIDESLIP, ALPHA = 0

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK0681) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (CUK070) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA ELEVON AIRLON
 4.500 .000 .000
 8.000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

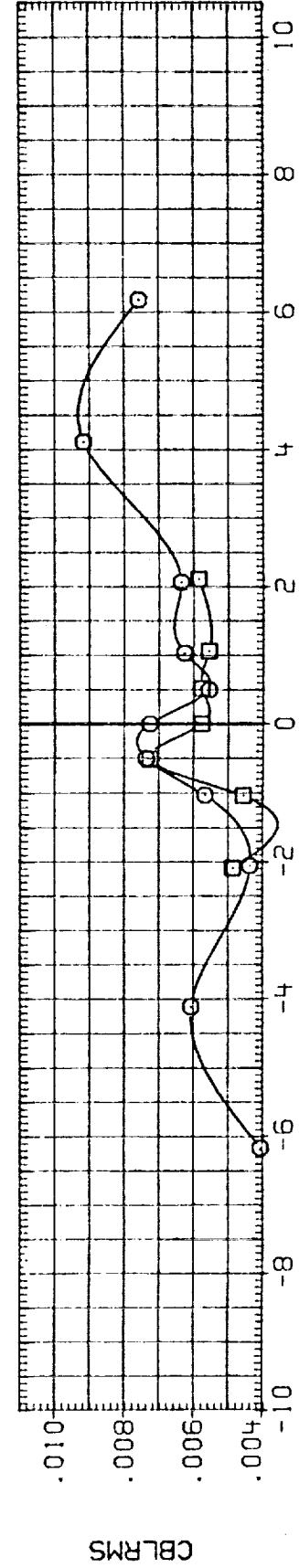
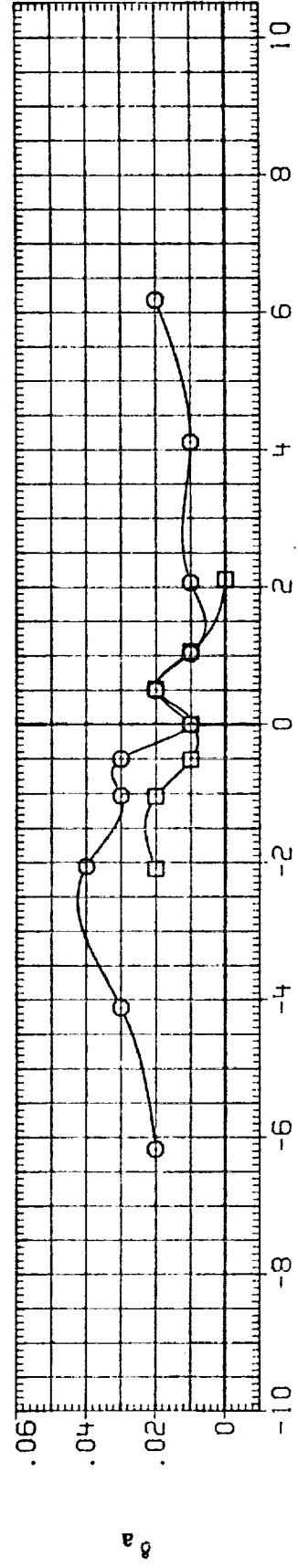
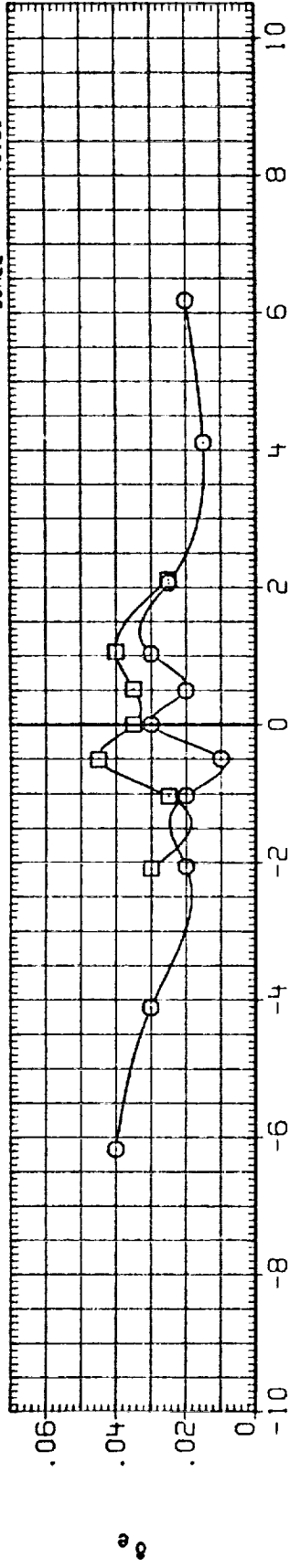


FIG. 37 EJECOR RUNS IN SIDESLIP, ALPHA = 0

(A) MACH = .90

| | | | | | | |
|-----------------|--|-------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/VL | ALPHA | ELEVON | AIRLON | REFERENCE INFORMATION |
| (RUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK073) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | 5.000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

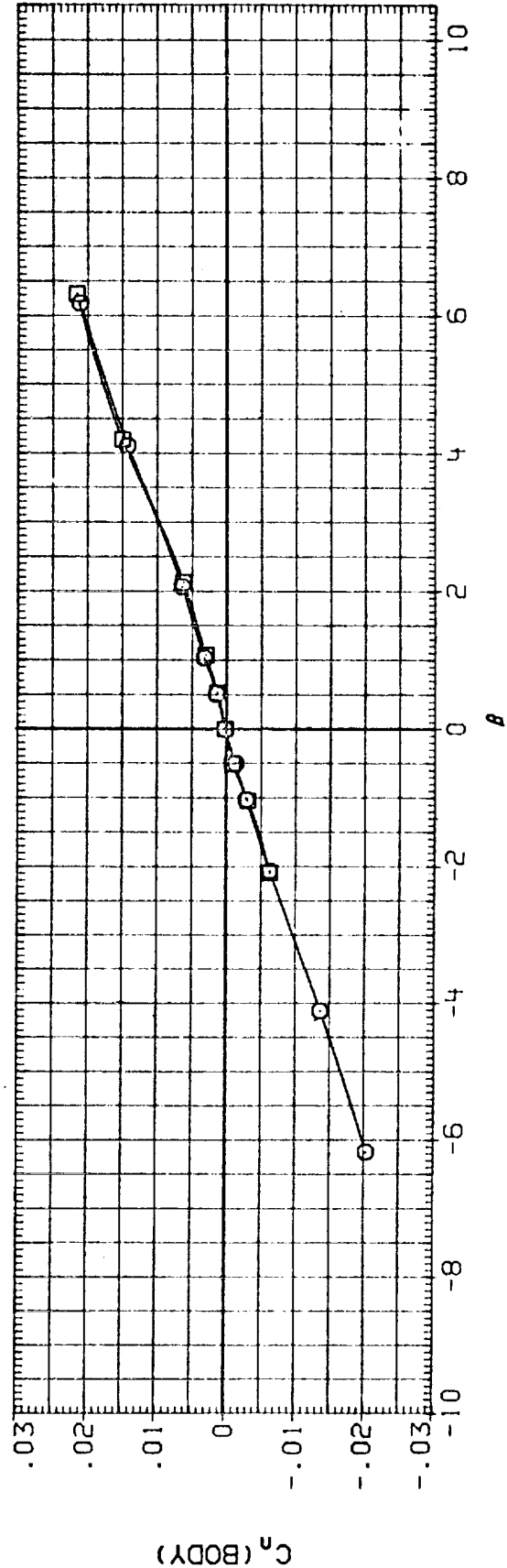
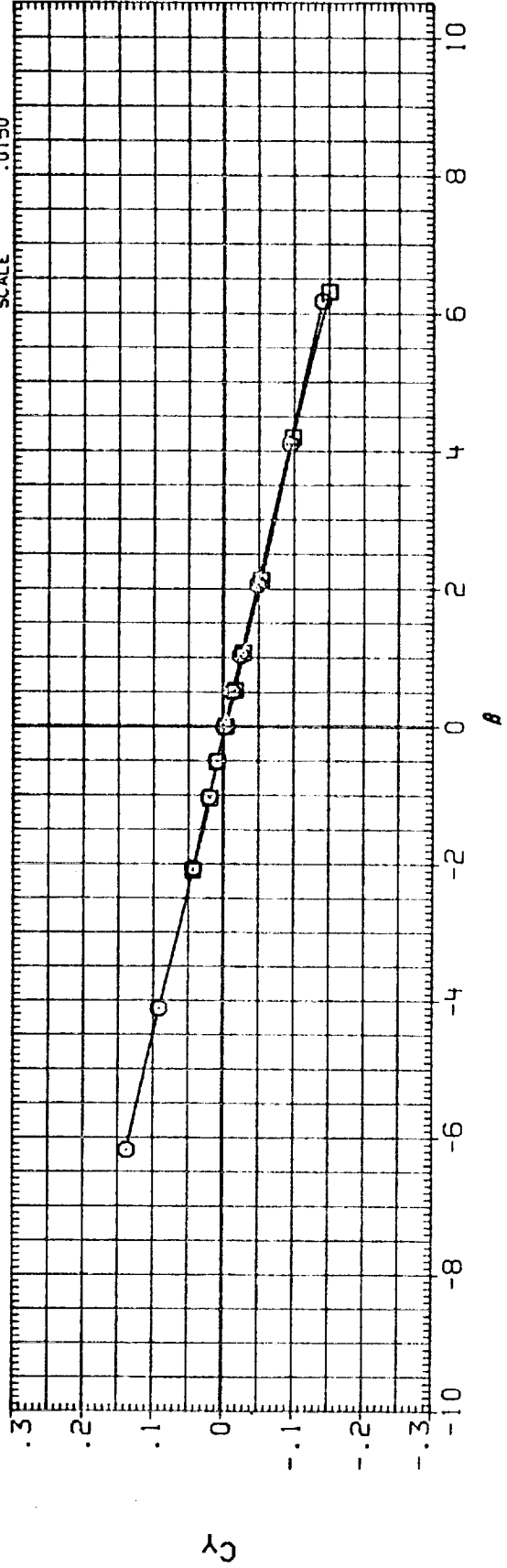


FIG. 38 EJECTOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 0

(A) MACH = .90

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | FN/VL | ALPHA | ELEVON | AILIRON | REFERENCE INFORMATION |
|-----------------|--|-------|-------|--------|---------|-----------------------|
| (RUK071) | LA70 BASELINE NO. 3 (GAPS SEALED; GRIT ON) | 4.500 | 5.000 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK073) | LA70 BASELINE NO. 3 (GAPS SEALED; GRIT ON) | 8.000 | 5.000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

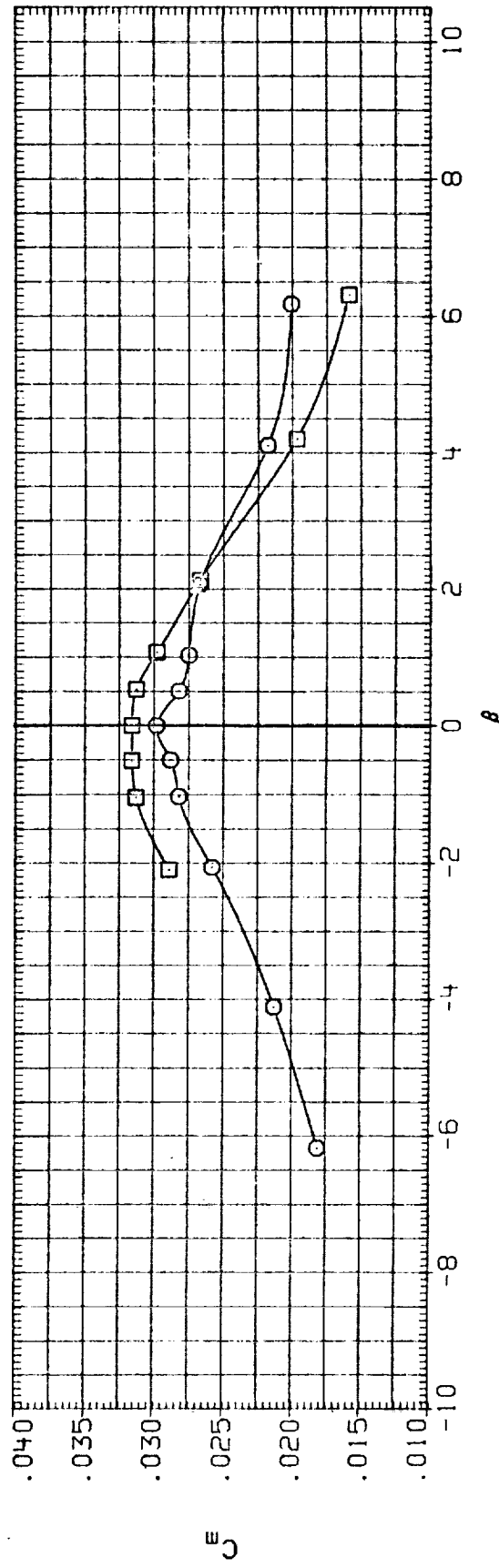
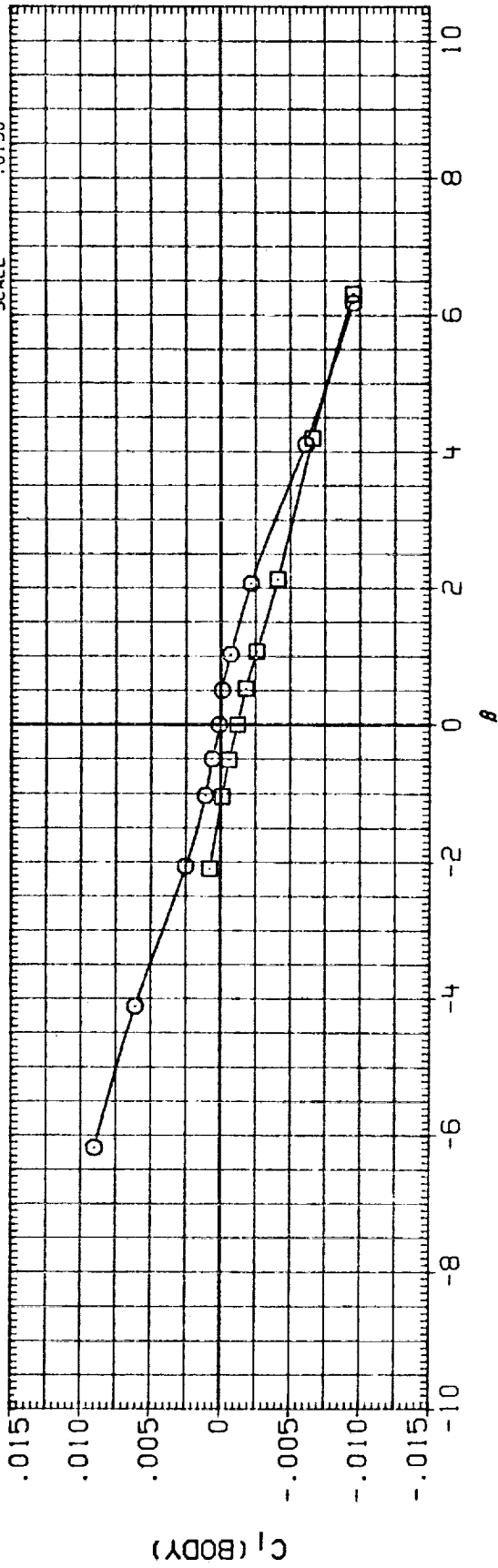


FIG. 38 EJECOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 0

(A) MACH = .90

| | | | | | | |
|-----------------|--|-------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AILRON | REFERENCE INFORMATION |
| (RUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK073) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | 5.000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

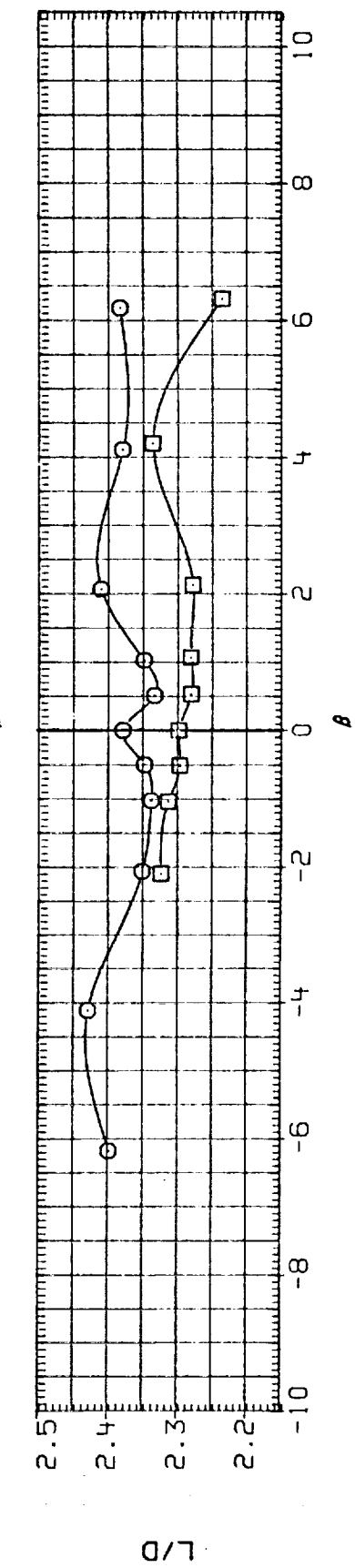
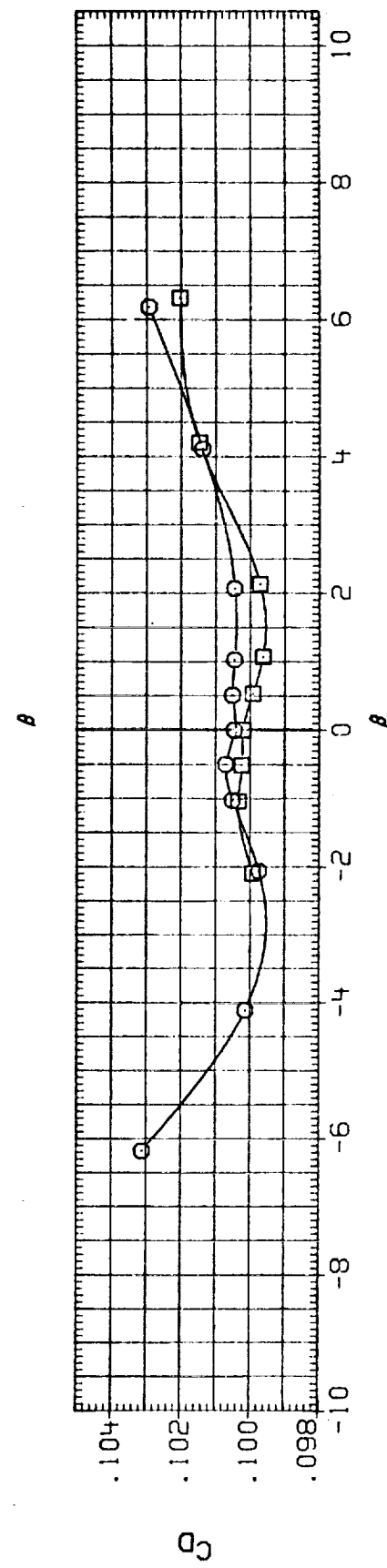
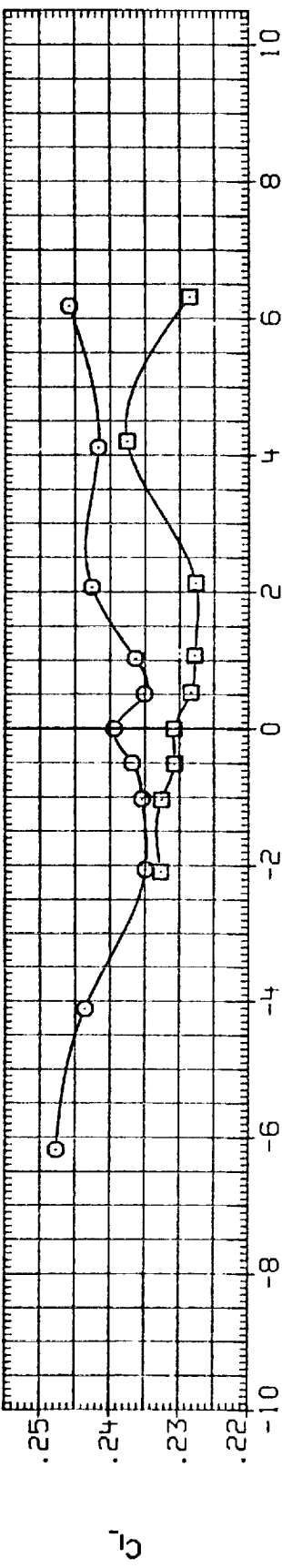


FIG. 38 EJCTOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 0

| | | | | | | |
|-----------------|--|-------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AILRON | REFERENCE INFORMATION |
| (CUK071) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK073) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | 5.000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.8800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

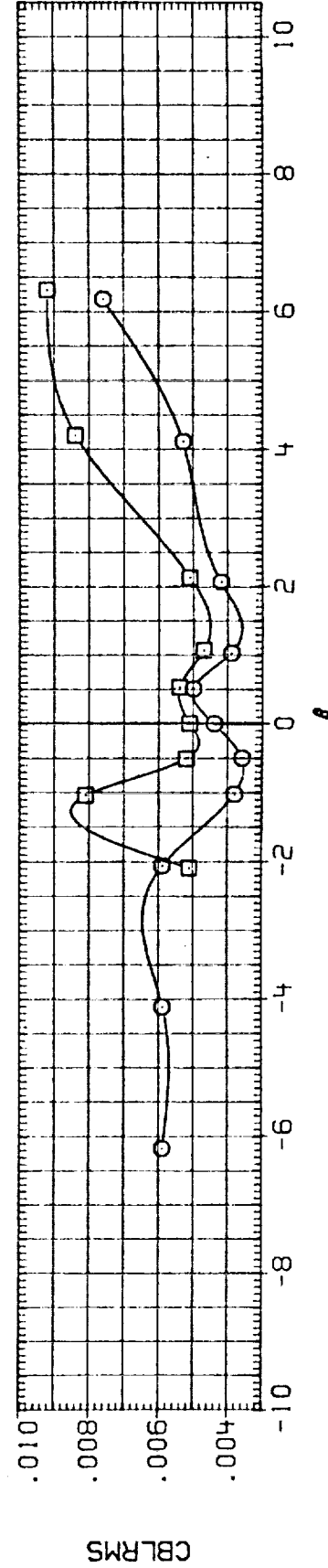
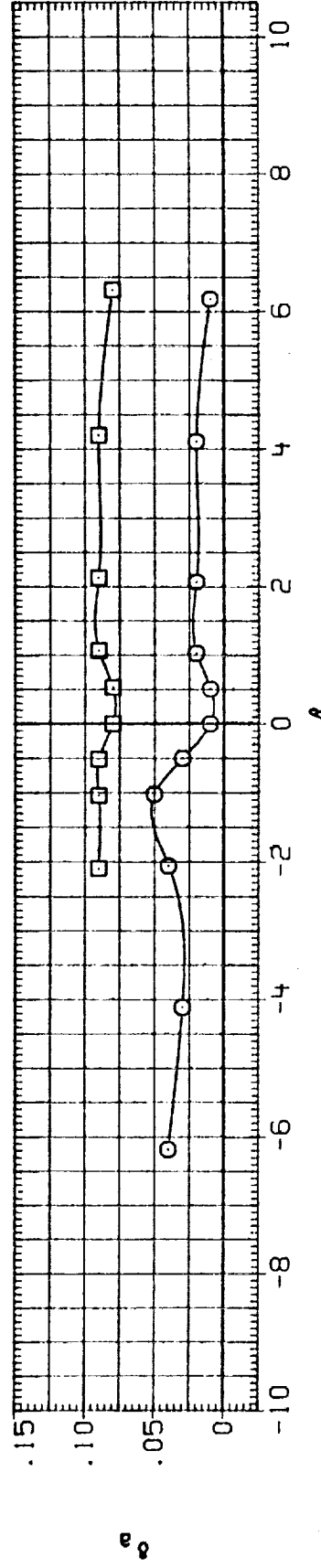
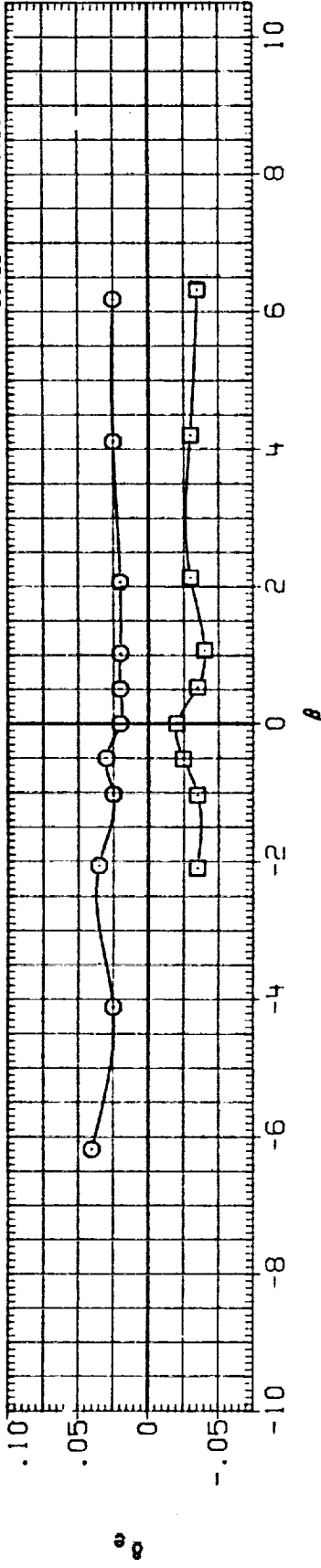


FIG. 38 EJECTOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 0

(A) MACH = .90

| | | | | | | |
|-----------------|--|-------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AILRON | REFERENCE INFORMATION |
| (RUK088) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 5.000 | 10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK090) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | 5.000 | 10.000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

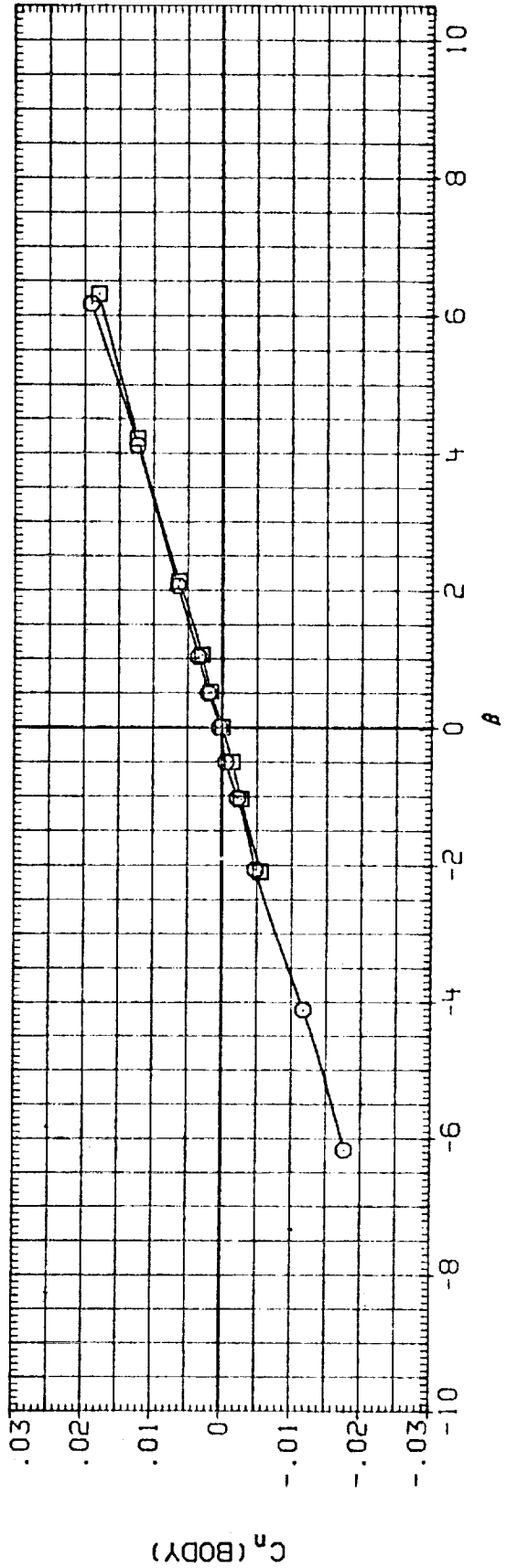
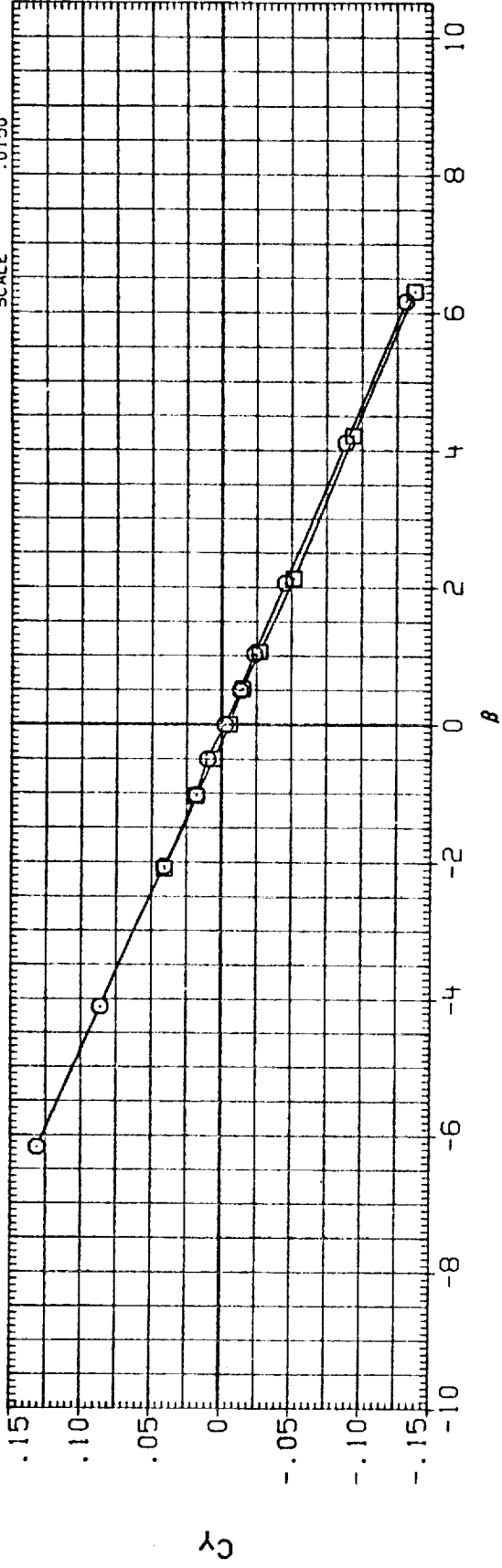


FIG. 39 EJECTOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

| | | | | |
|----------|--|-------|-----------|--------|
| (RUK088) | ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | SREF | 2690.0000 | SQ.FT. |
| (RUK090) | □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | LREF | 474.8000 | INCHES |
| | | BREF | 936.6800 | INCHES |
| | | XMRP | 1076.7000 | IN. X0 |
| | | YMRP | .0000 | IN. Y0 |
| | | ZMRP | 375.0000 | IN. Z0 |
| | | SCALE | .0150 | |

RN/L ALPHA ELEVON AIRLON

| | | | |
|-------|-------|--------|------|
| 4.500 | 5.000 | 10.000 | .000 |
| 8.000 | 5.000 | 10.000 | .000 |

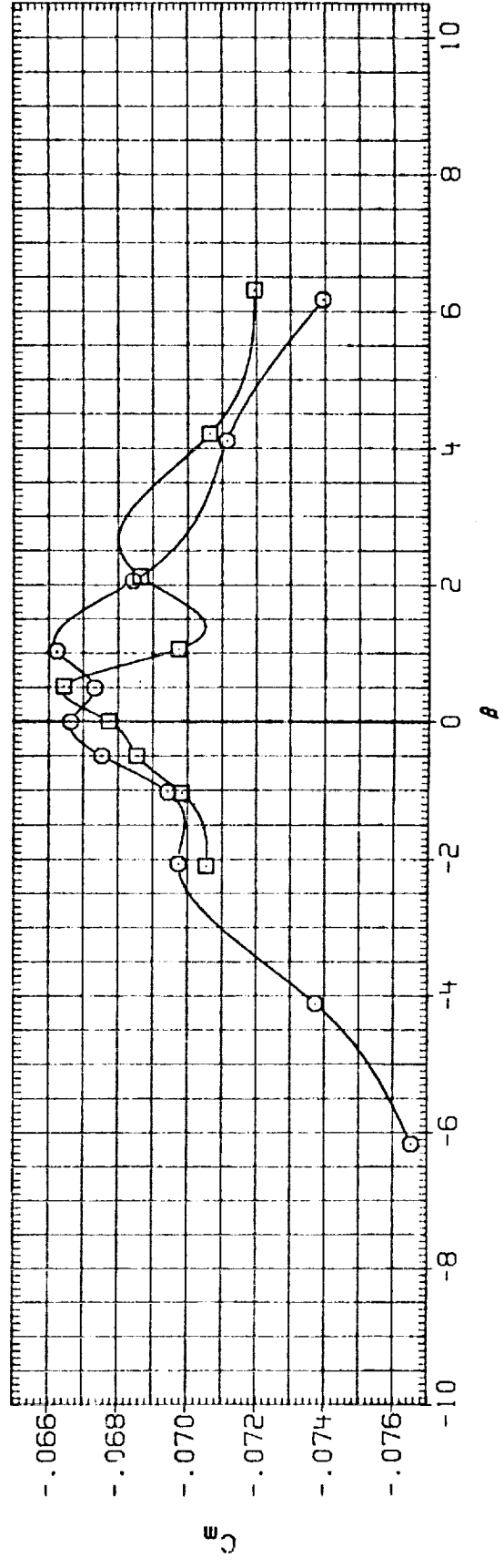
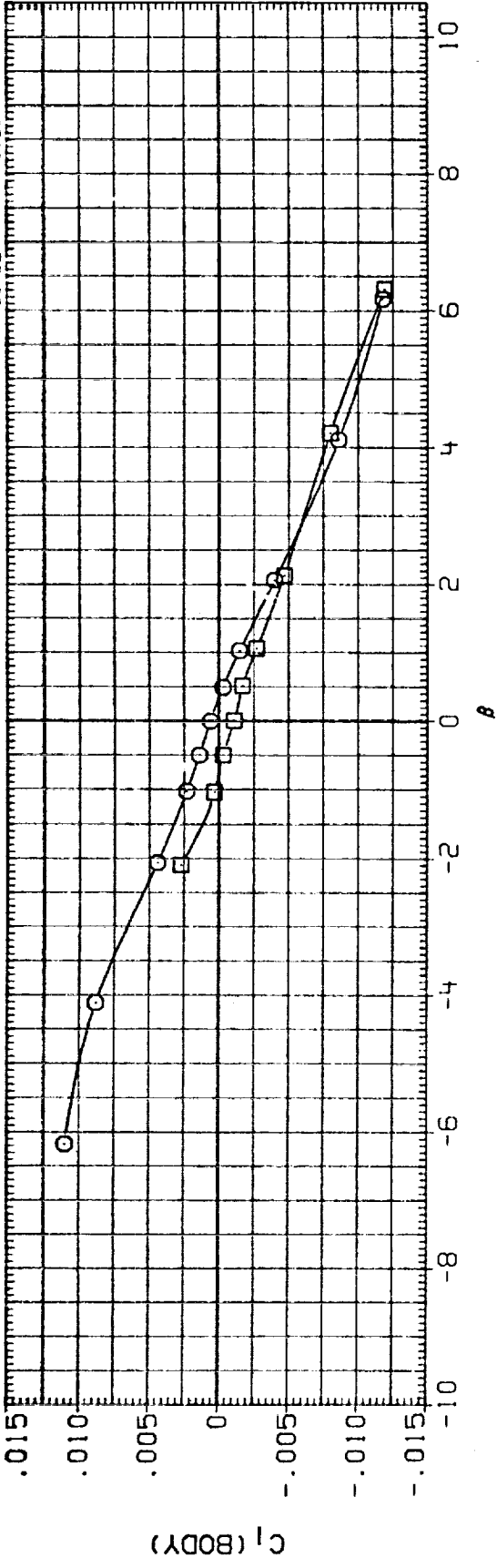


FIG. 39 EJECOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK088) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK090) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

FN/L ALPHA ELEVON AIRLON REFERENCE INFORMATION

4.500 5.000 10.000 .000 SREF 2690.0000 SQ.FT.

8.000 5.000 10.000 .000 LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

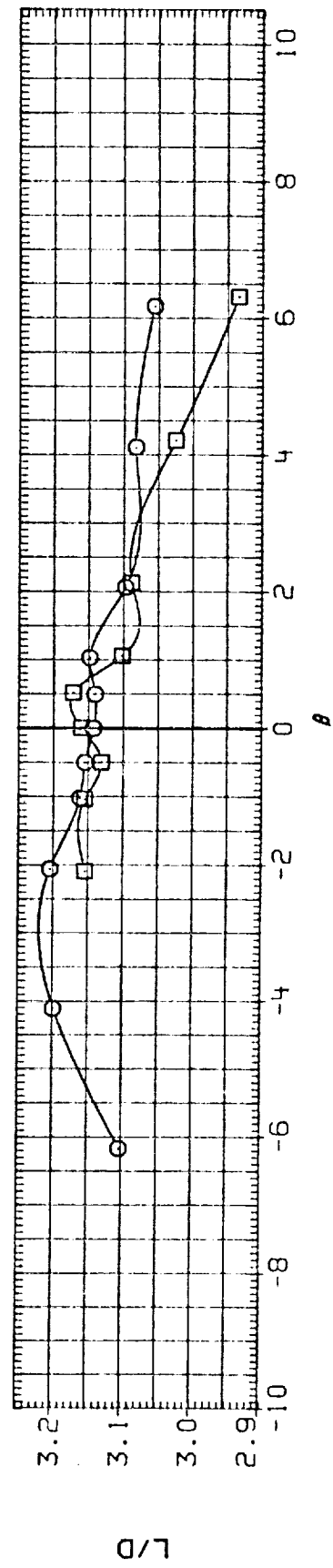
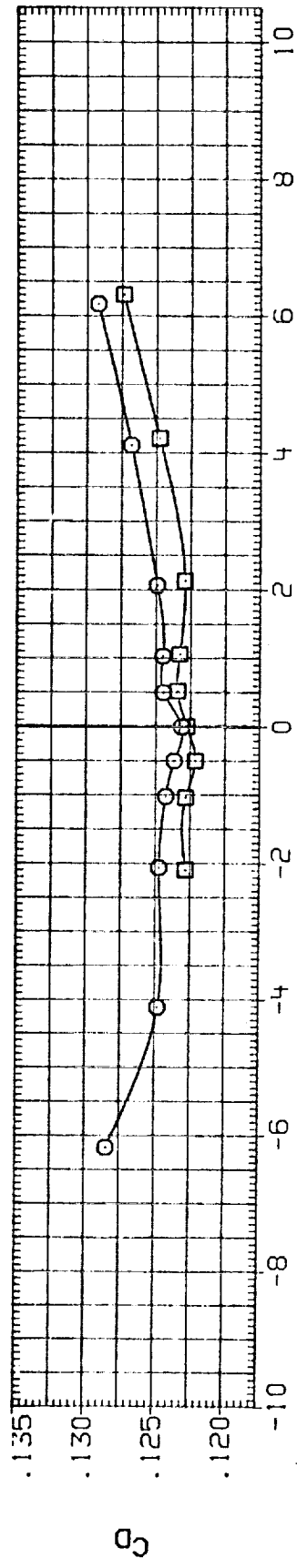
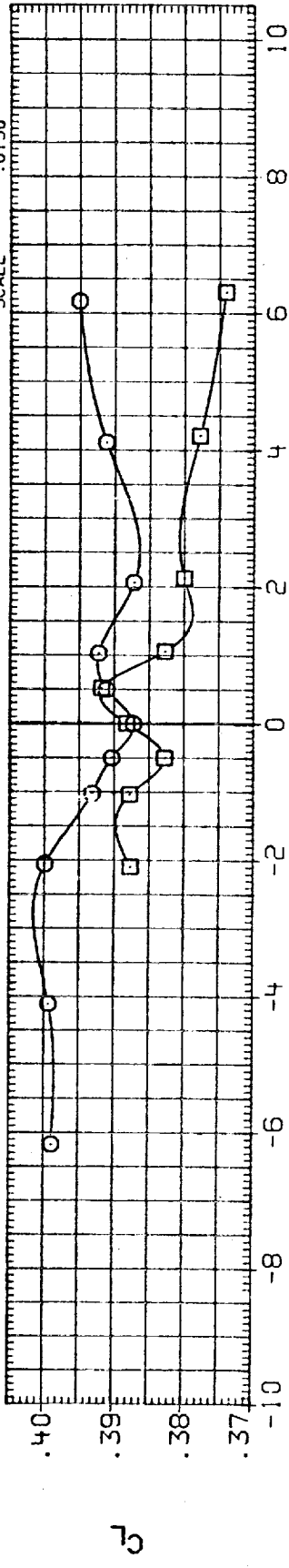


FIG. 39 EJECOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 10

(A) MACH = .90

| | | | | | | | | | | | | | |
|-----------------|---|---------------------------|---------------------------------------|-------|-------|--------|--------|--------|-------|-----------|--------|-----------------------|--|
| DATA SET SYMBOL | | CONFIGURATION DESCRIPTION | | RV/L | | ALPHA | | ELEVON | | AILRON | | REFERENCE INFORMATION | |
| (CUK088) | ○ | LA70 | BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 5.000 | 10.000 | 10.000 | .000 | SREF | 2690.0000 | 50.FT. | | |
| (CUK090) | □ | LA70 | BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 8.000 | 5.000 | 10.000 | 10.000 | .000 | LREF | 474.8000 | INCHES | | |
| | | | | | | | | | BREF | 936.6800 | INCHES | | |
| | | | | | | | | | XMRP | 1076.7000 | IN. XO | | |
| | | | | | | | | | YMRP | .0000 | IN. YO | | |
| | | | | | | | | | ZMRP | 375.0000 | IN. ZO | | |
| | | | | | | | | | SCALE | .0150 | | | |

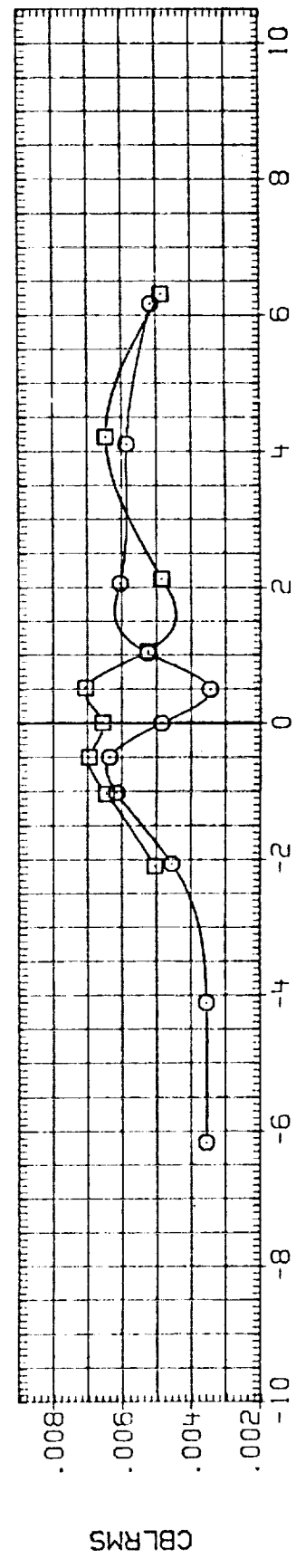
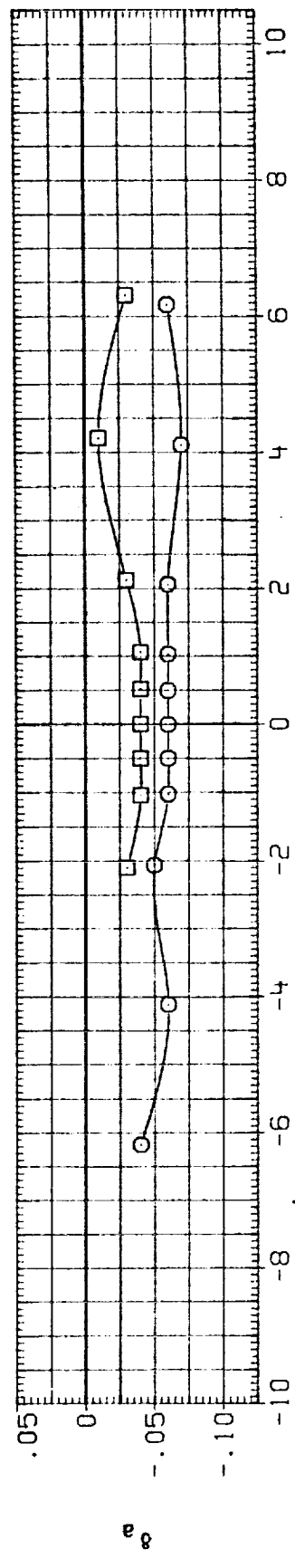
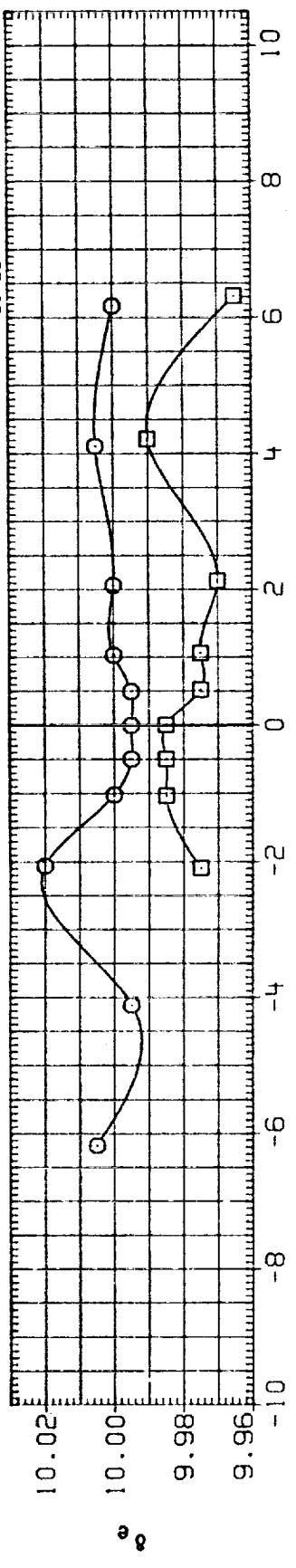


FIG. 39 EJECTOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 10

(A) MACH = .90

| | | | | | | |
|-----------------|--|-------|--------|---------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AIRLON | REFERENCE INFORMATION |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | -10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK063) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | 10.000 | -10.000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 935.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

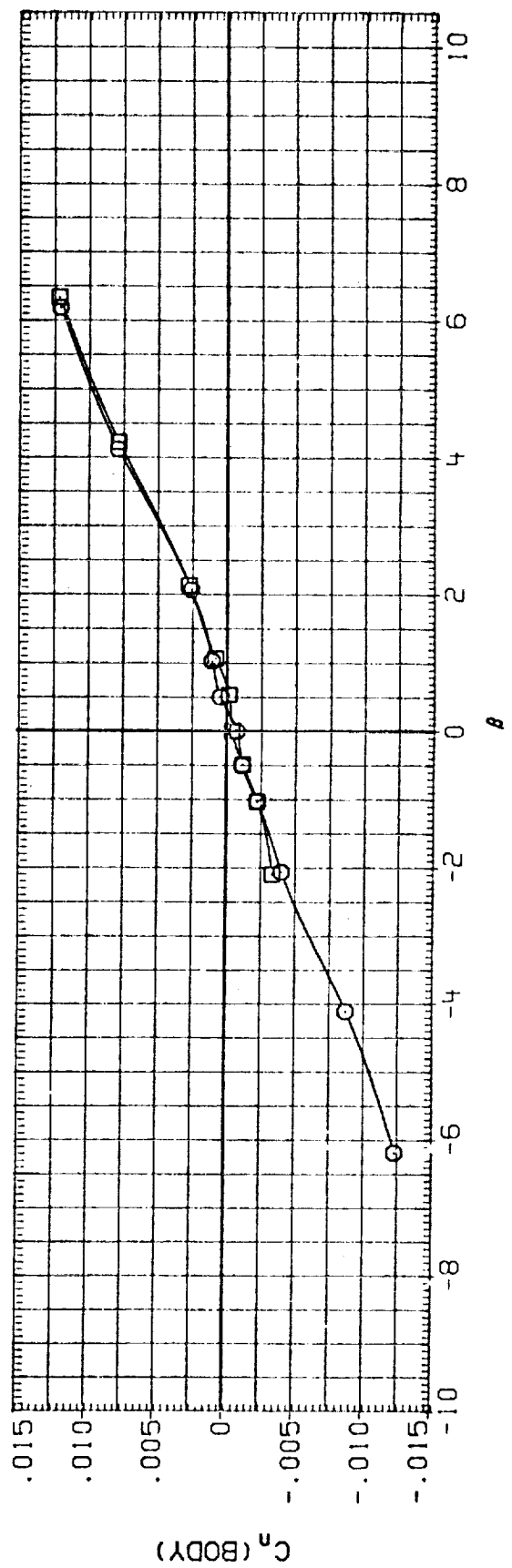
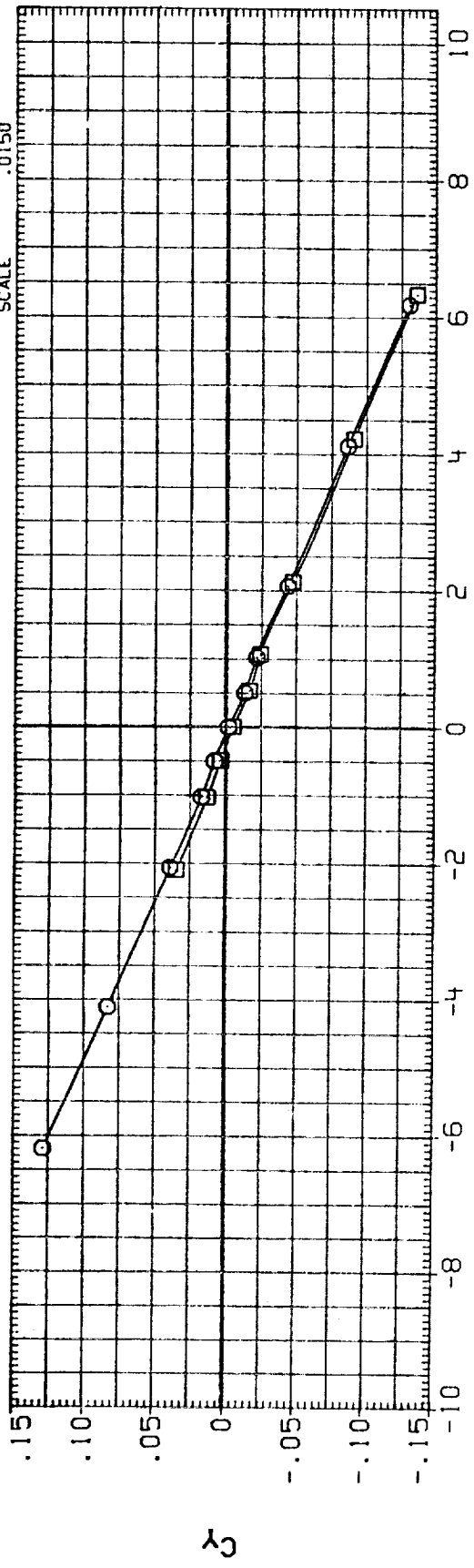


FIG. 40 EJECTOR RUNS IN SIDESLIP, ALPHA = 10

DATA SET SYMBOL
(RUK061)
(RUK063)

CONFIGURATION DESCRIPTION
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L
4.500
8.000

ALPHA
10.000
10.000

ELEVON
-10.000
-10.000

AILRON
.000
.000

REFERENCE INFORMATION
SREF 2590.0000 SQ. FT.
LREF 474.8000 INCHES
BREF 936.6800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

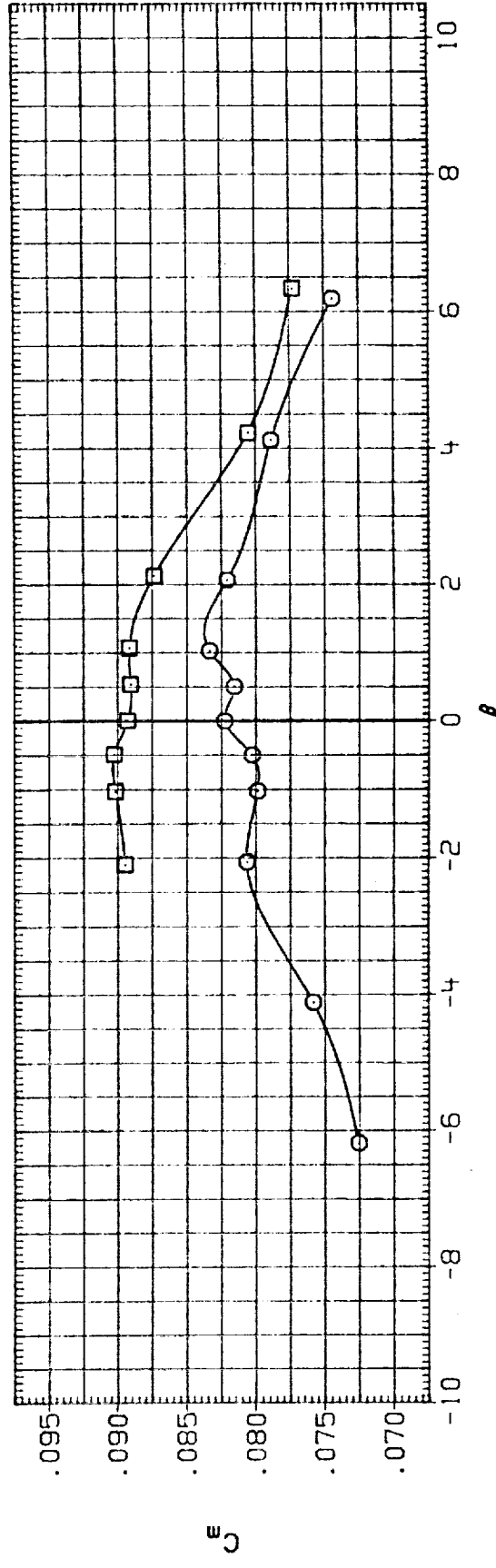
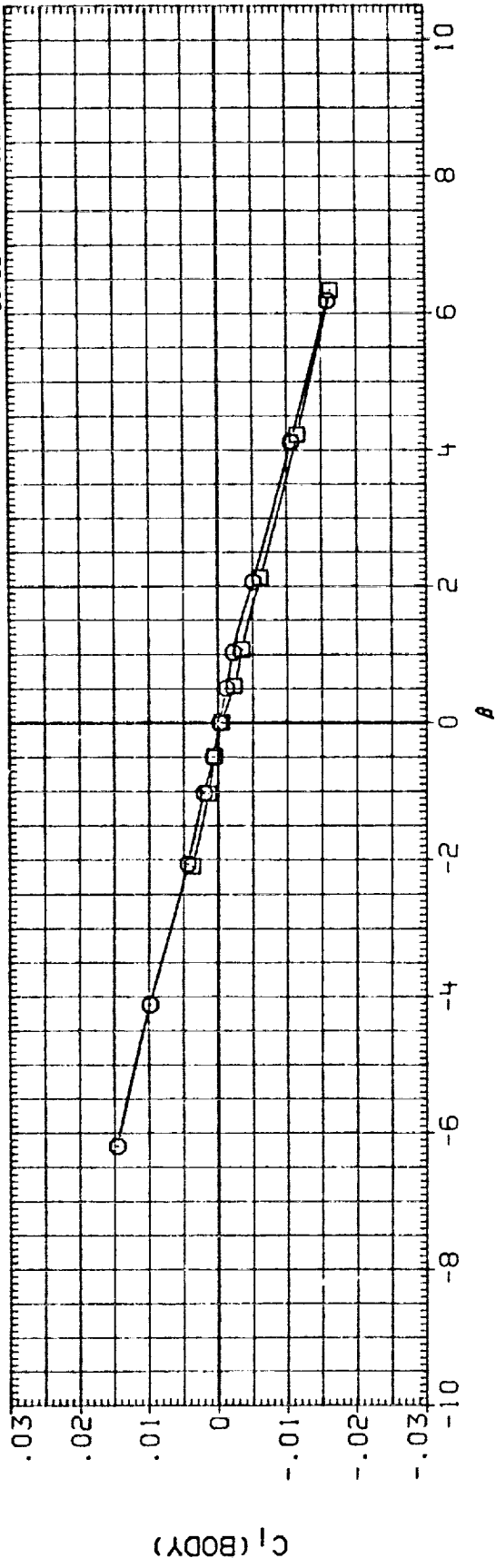


FIG. 40 EJECTOR RUNS IN SIDESLIP, ALPHA = 10

(A) MACH = .90

| | | | | | | |
|-----------------|--|-------|--------|---------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AILRON | REFERENCE INFORMATION |
| (RUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | -10.000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK063) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | 10.000 | -10.000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 938.6800 INCHES |
| | | | | | | XMPP 1076.7000 IN. XO |
| | | | | | | YMPP .0000 IN. YO |
| | | | | | | ZMPP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

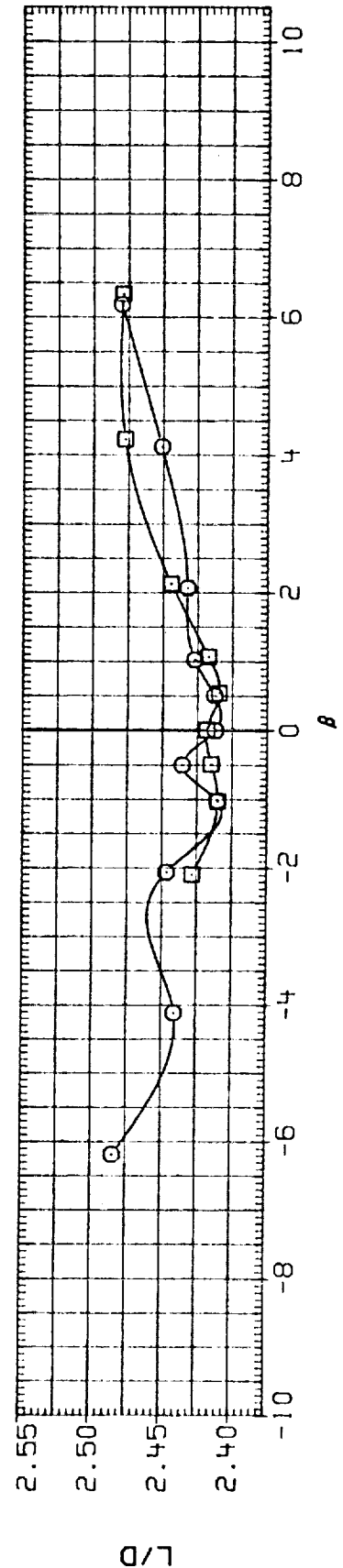
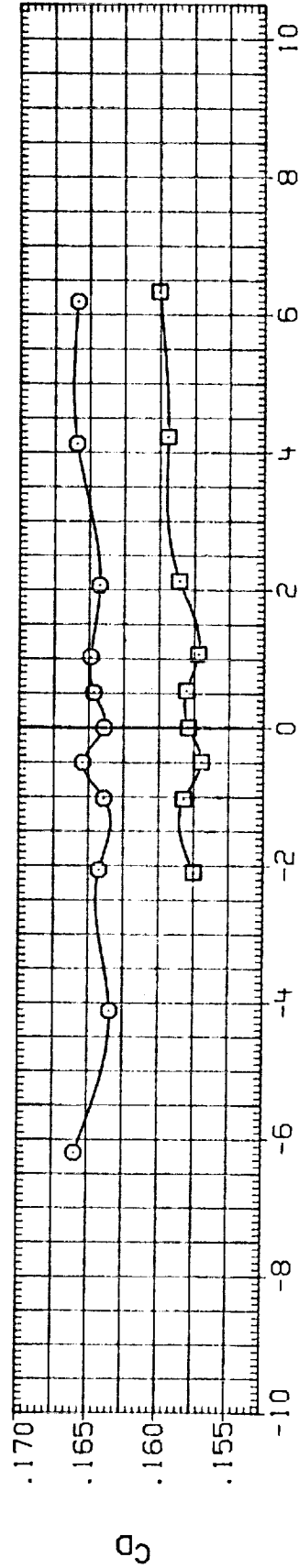
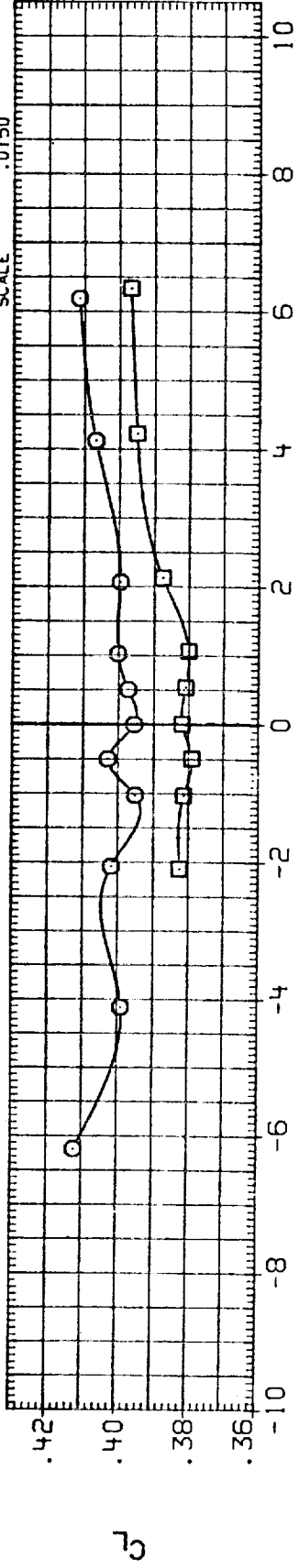


FIG. 40 EJECOR RUNS IN SIDESLIP, ALPHA = 10

(A) MACH = .90

| | | | | | | |
|-----------------|--|-------|--------|---------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | ELEVON | AILRON | REFERENCE INFORMATION |
| (CUK061) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 10.000 | -10.000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK063) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | 10.000 | -10.000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

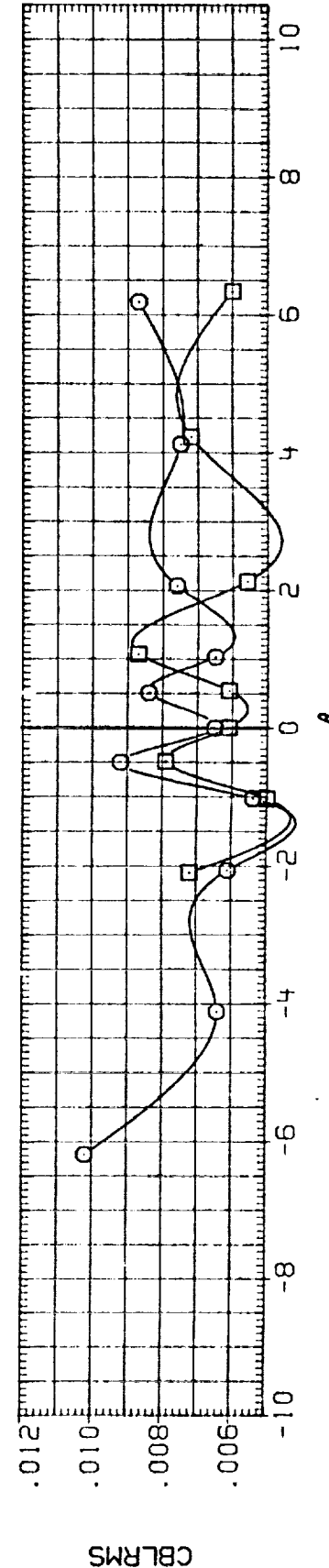
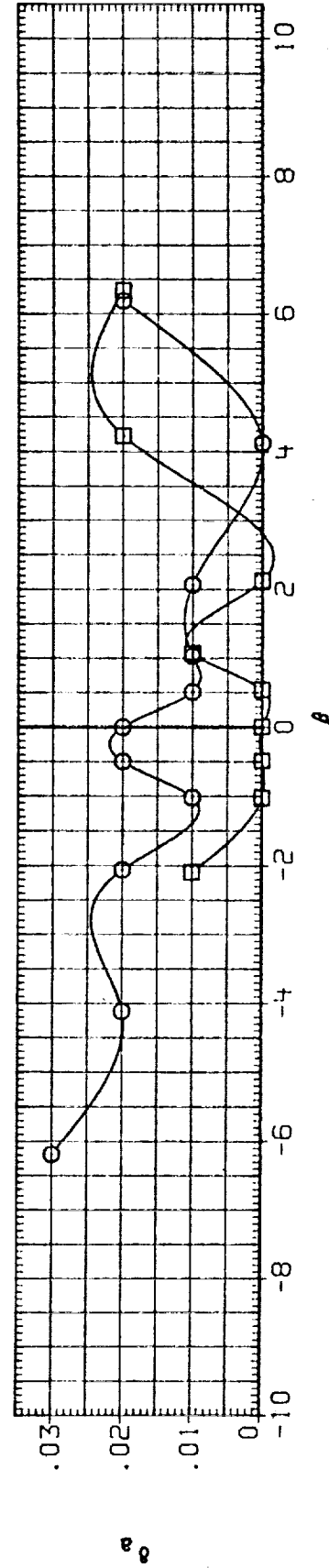
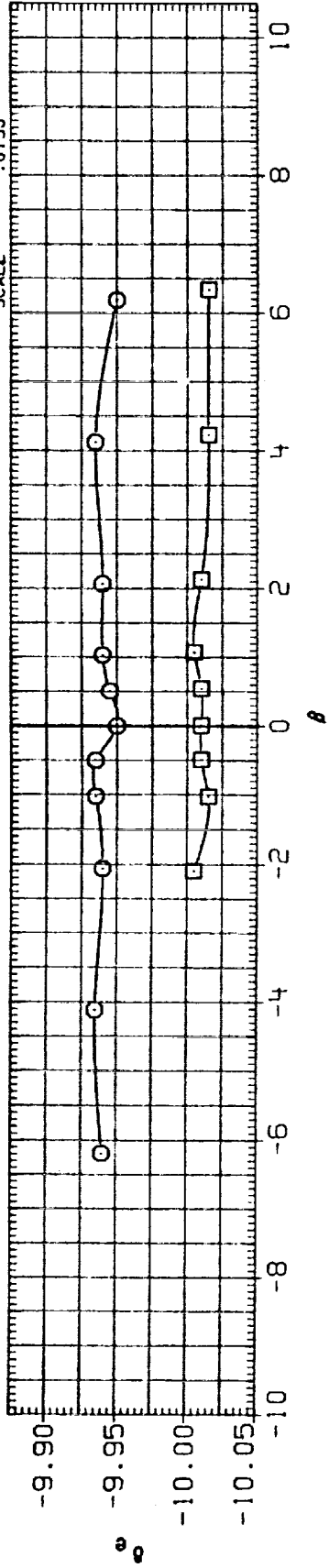


FIG. 40 EJECTOR RUNS IN SIDESLIP, ALPHA = 10

(A) MACH = .90

| | | | | | | | | | | | | | |
|-----------------|---|---------------------------|---------------------------------------|-------|------|-------|------|------|------|--------|-----------|-----------------------|--|
| DATA SET SYMBOL | | CONFIGURATION DESCRIPTION | | RV/L | | ALPHA | | BETA | | ELEVON | | REFERENCE INFORMATION | |
| (RUK107) | ○ | LA70 | BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | .000 | .000 | SREF | 2690.0000 | 50.FT. | |
| (RUK110) | □ | LA70 | BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | .000 | .000 | .000 | .000 | .000 | LREF | 474.8000 | INCHES | |
| | | | | | | | | | | BREF | 936.6800 | INCHES | |
| | | | | | | | | | | YMRP | 1076.7000 | IN. XO | |
| | | | | | | | | | | ZMRP | .0000 | IN. YO | |
| | | | | | | | | | | SCALE | 375.0000 | IN. ZO | |
| | | | | | | | | | | | .0150 | | |

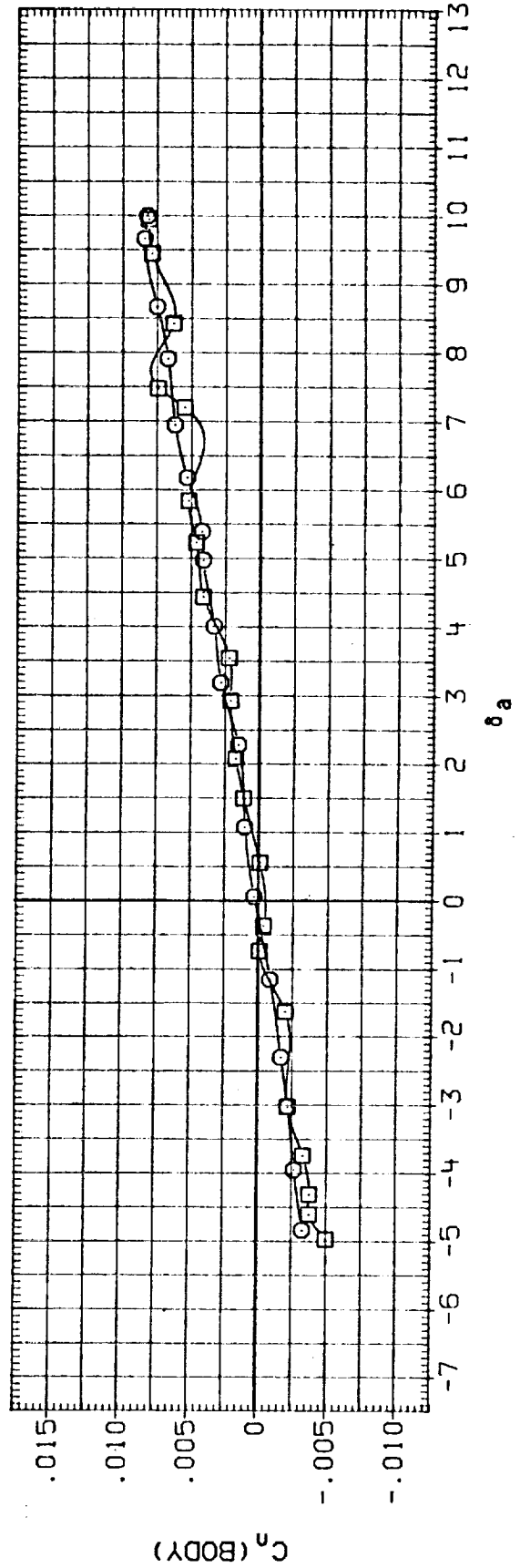
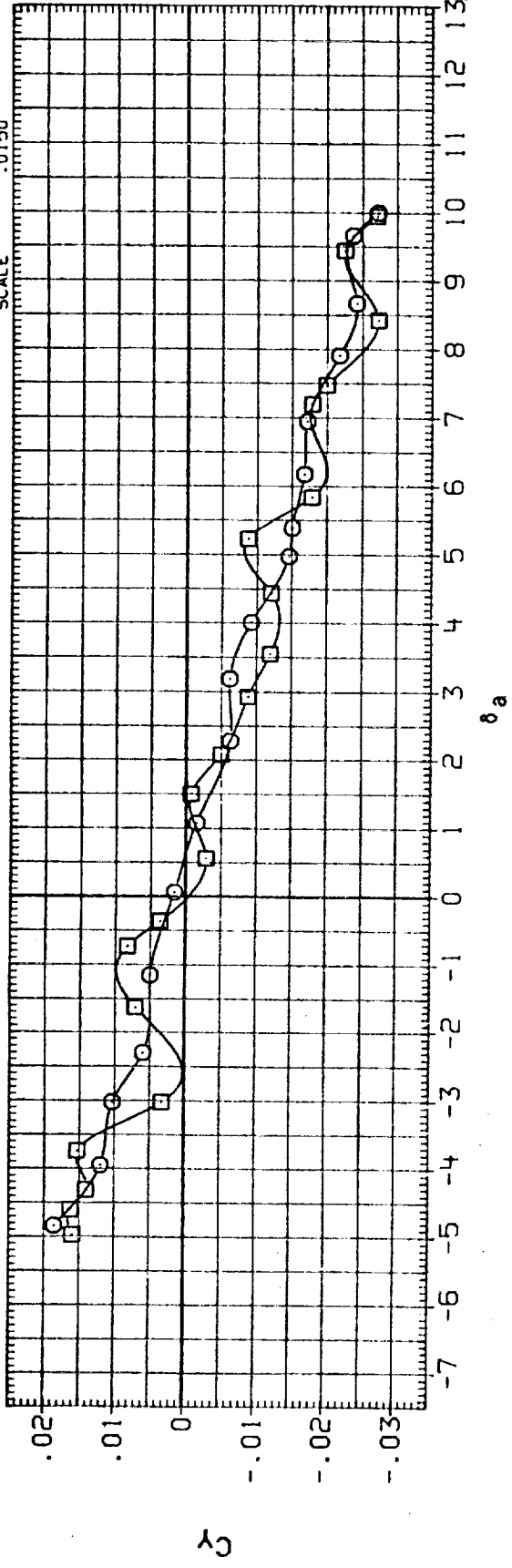


FIG. 41 EJECOR RUNS WITHAILERON DEFLECTION, ALPHA = 0

(A)MACH = .60

| | | | | | | |
|-----------------|--|-------|-------|------|--------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
| (RUK107) | LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ. FT. |
| (RUK110) | LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 8.000 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

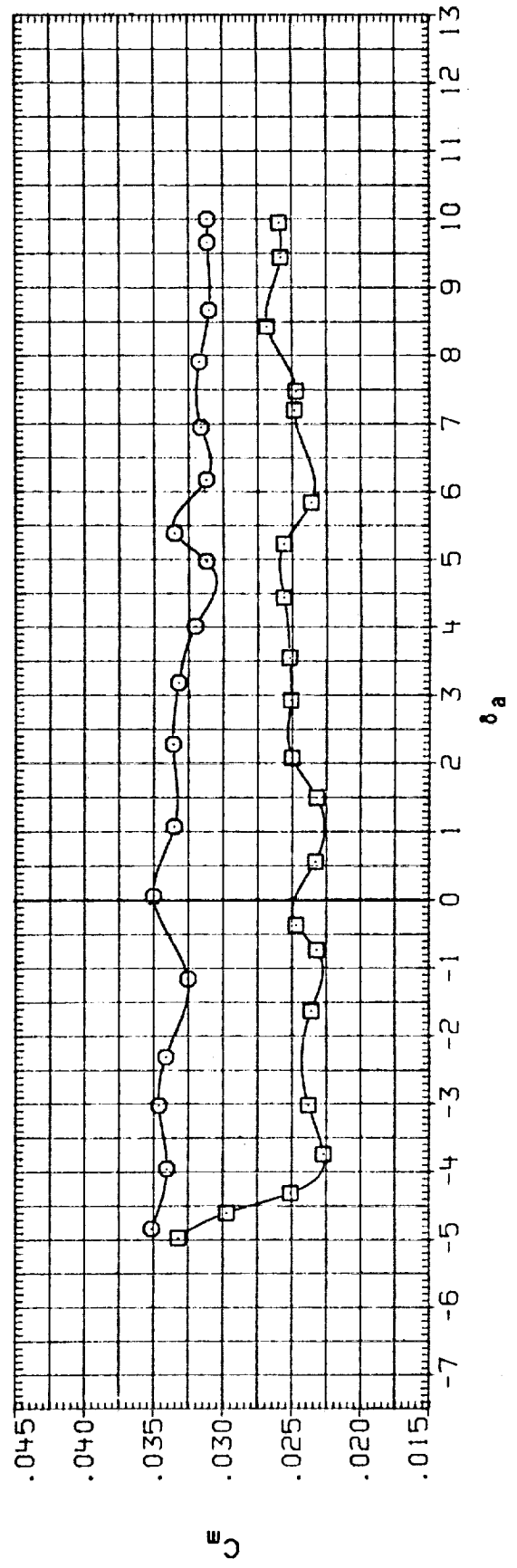
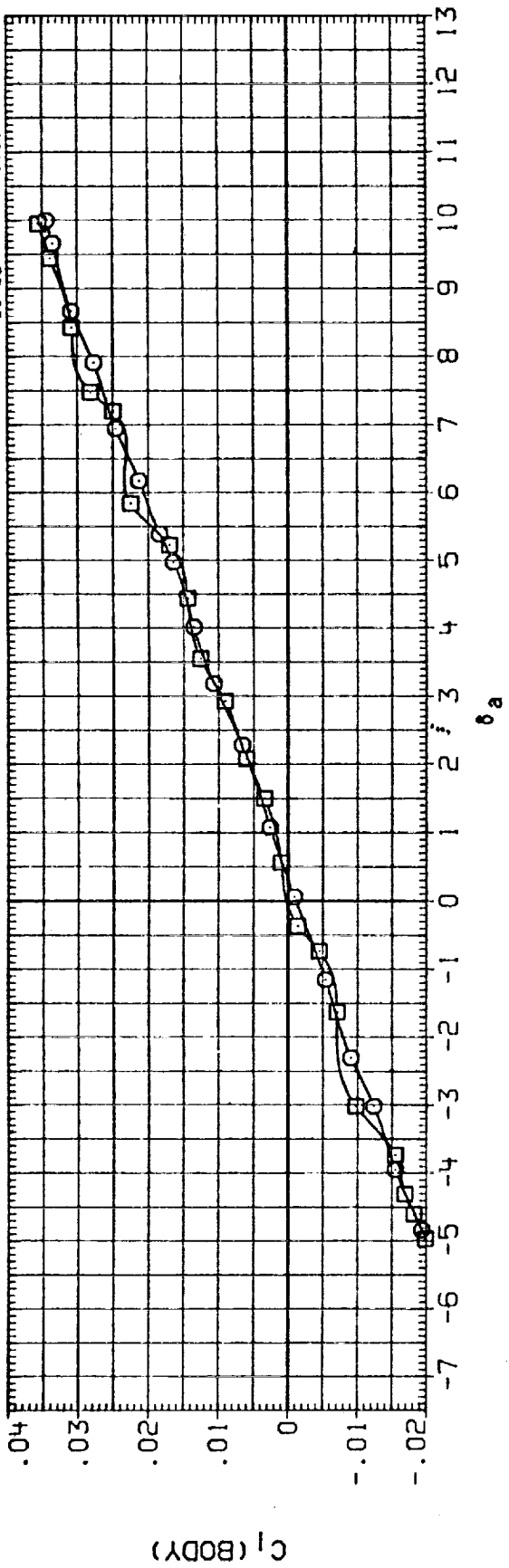


FIG. 41 EJECOR RUNS WITH AILERON DEFLECTION, ALPHA = 0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK107) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK110) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RV/L ALPHA BETA ELEVON

4.500 .000 .000 .000

8.000 .000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

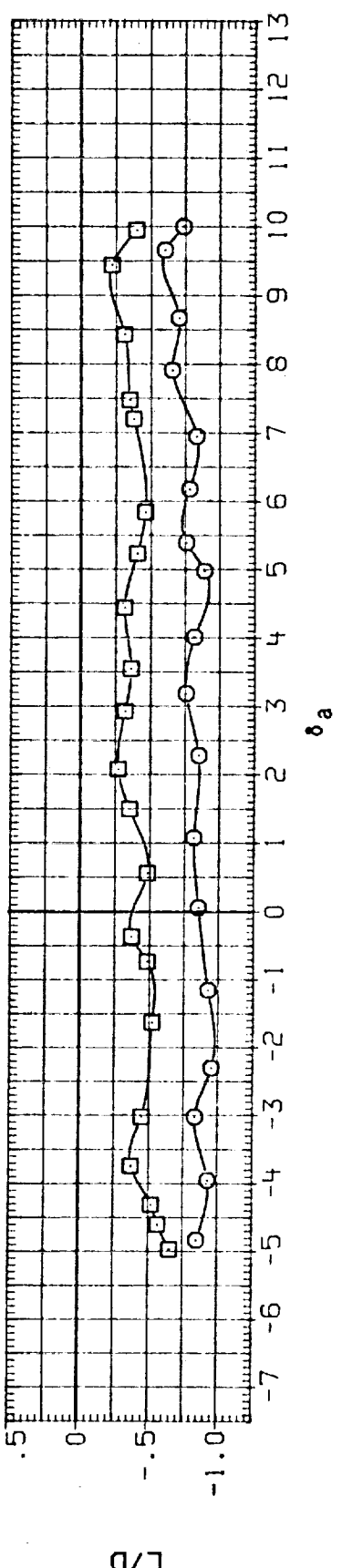
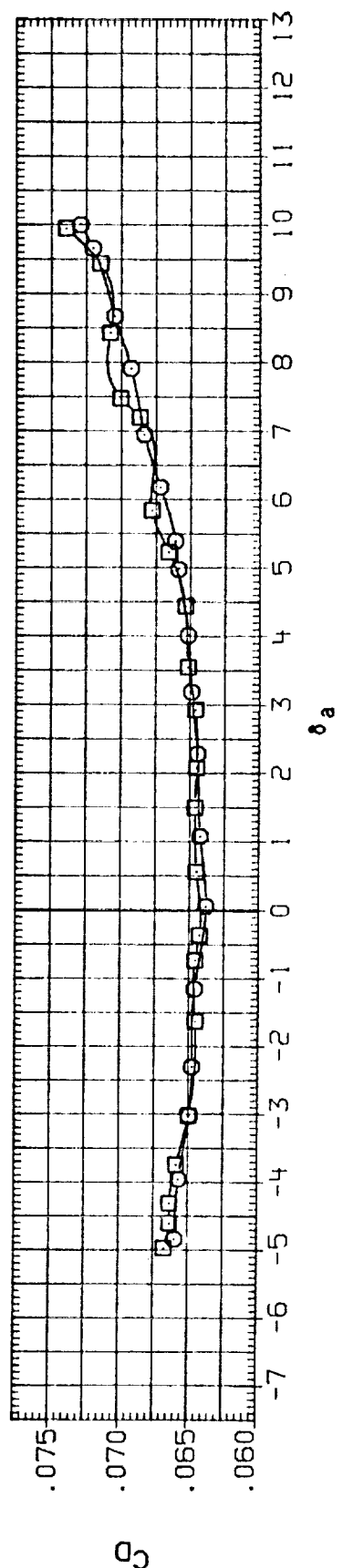
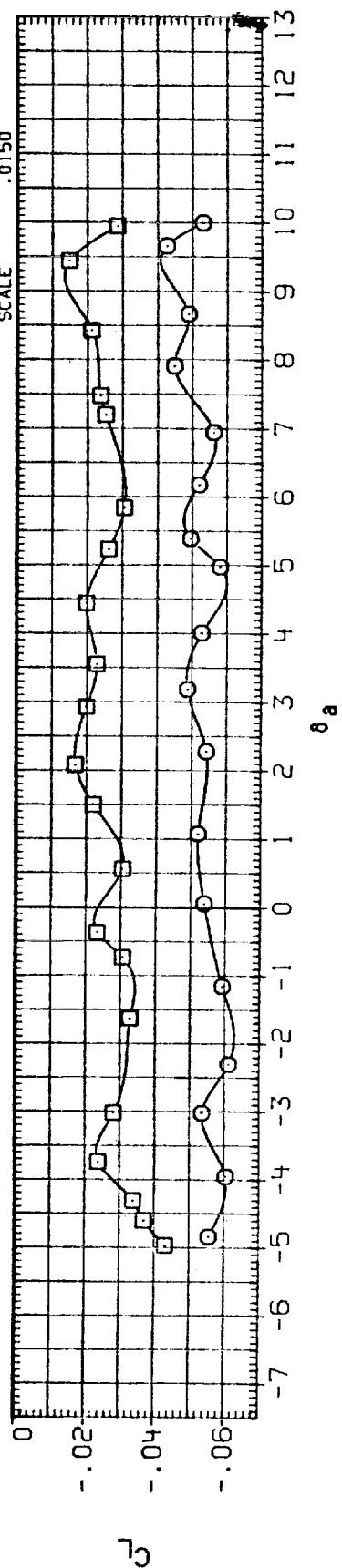


FIG. 41 EJECTOR RUNS WITHAILERON DEFLECTION, ALPHA = 0

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK107) O LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(CUK110) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

RN/L ALPHA BETA ELEVON

4.500 .000 .000 .000

8.000 .000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 50.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

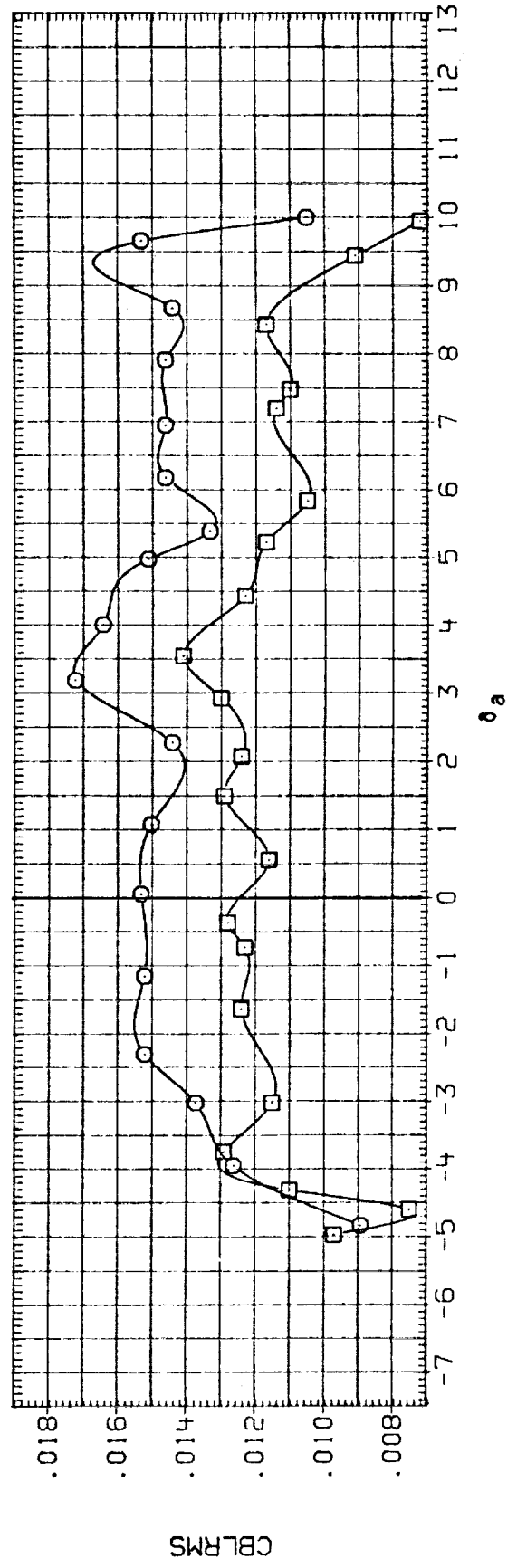
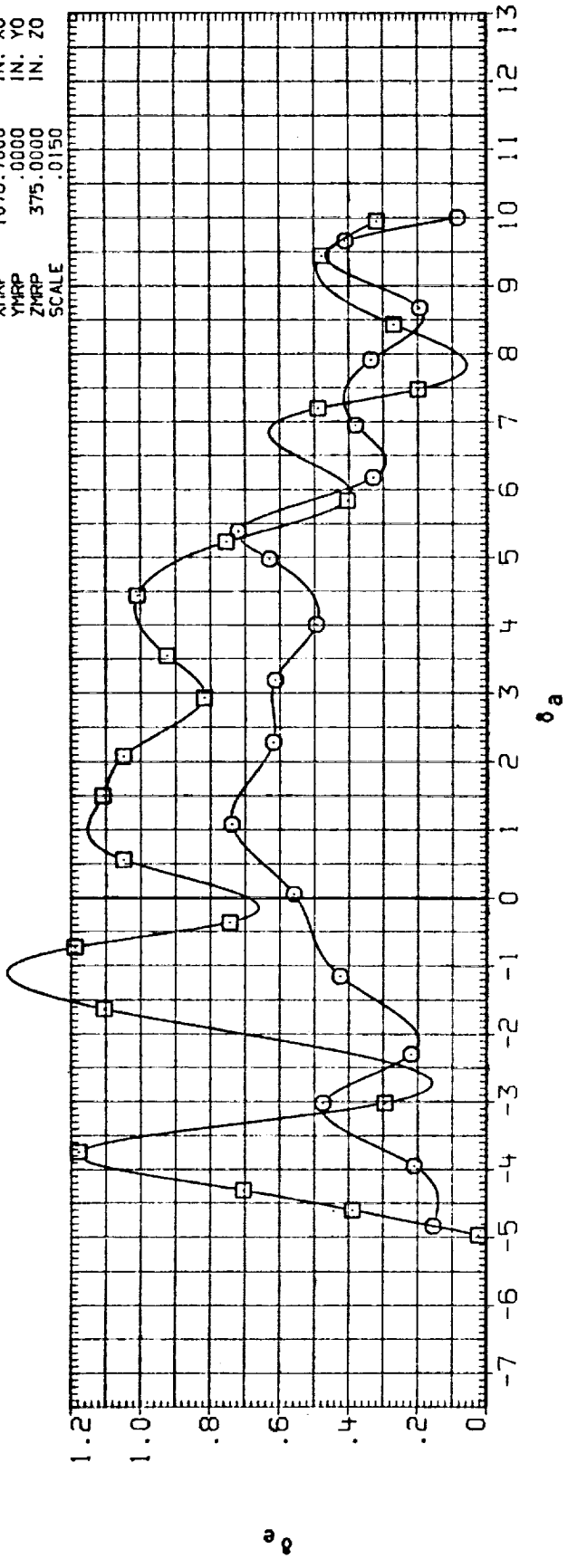


FIG. 41 EJECTOR RUNS WITHAILERON DEFLECTION, ALPHA = 0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK107) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK110) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA BETA ELEVON

4.500 .000 .000 .000

8.000 .000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

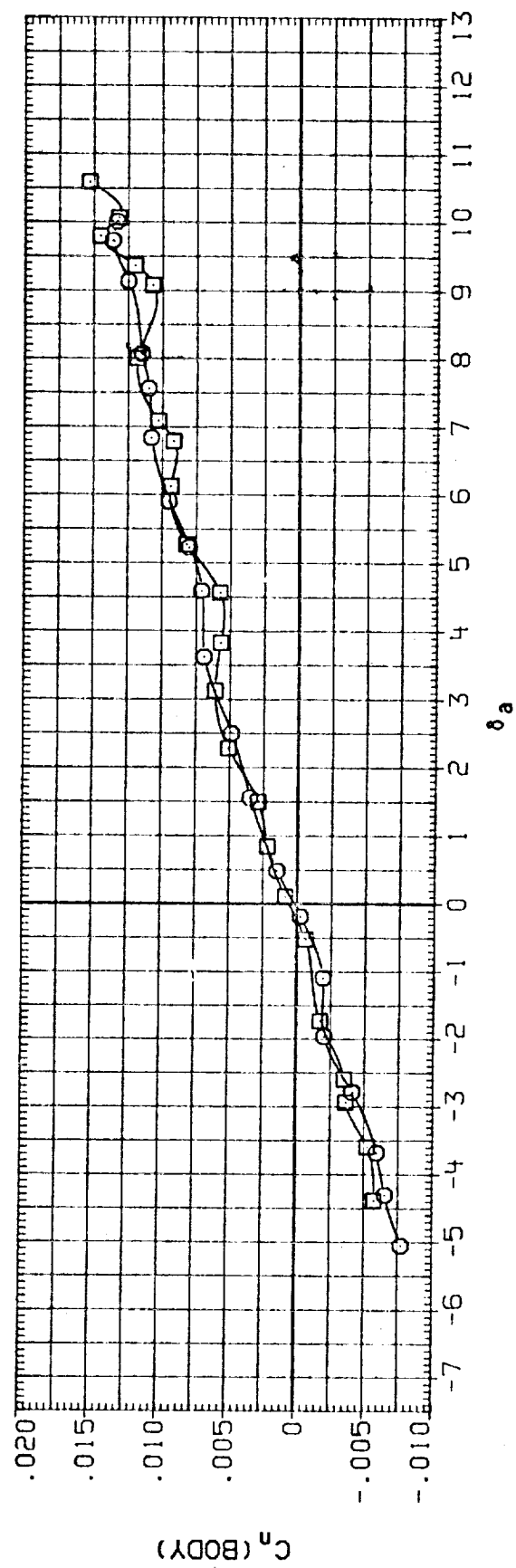
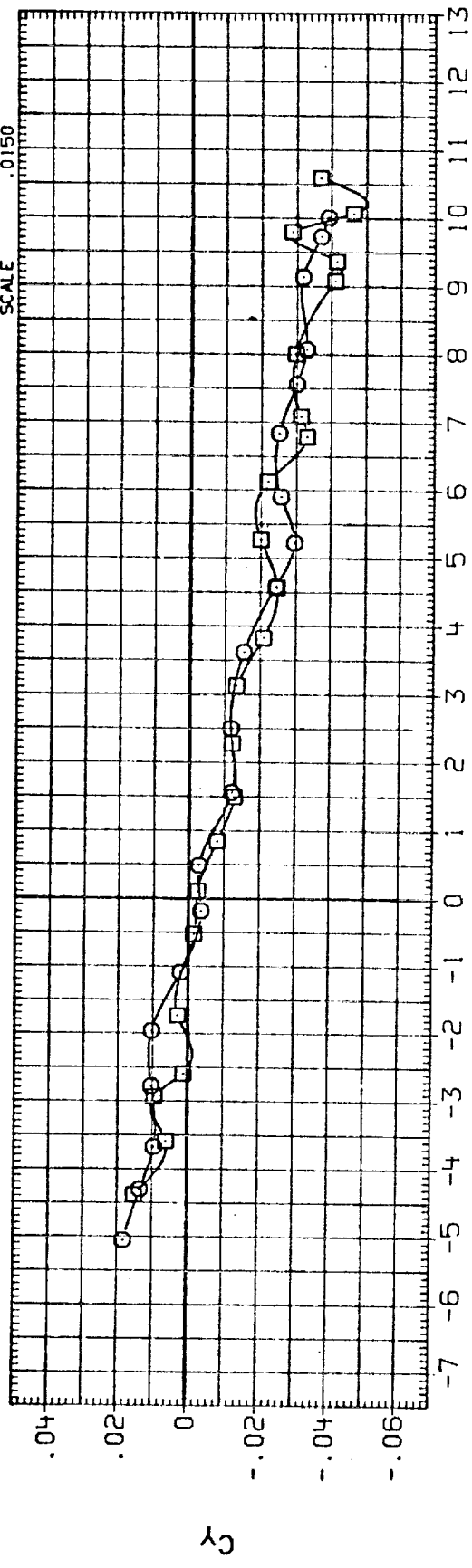


FIG. 41 EJECOR RUNS WITHAILERON DEFLECTION, ALPHA = 0

(A)MACH = .90

| | | | | | | |
|-----------------|--|-------|-------|------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
| (RUK107) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | .000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK110) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | .000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

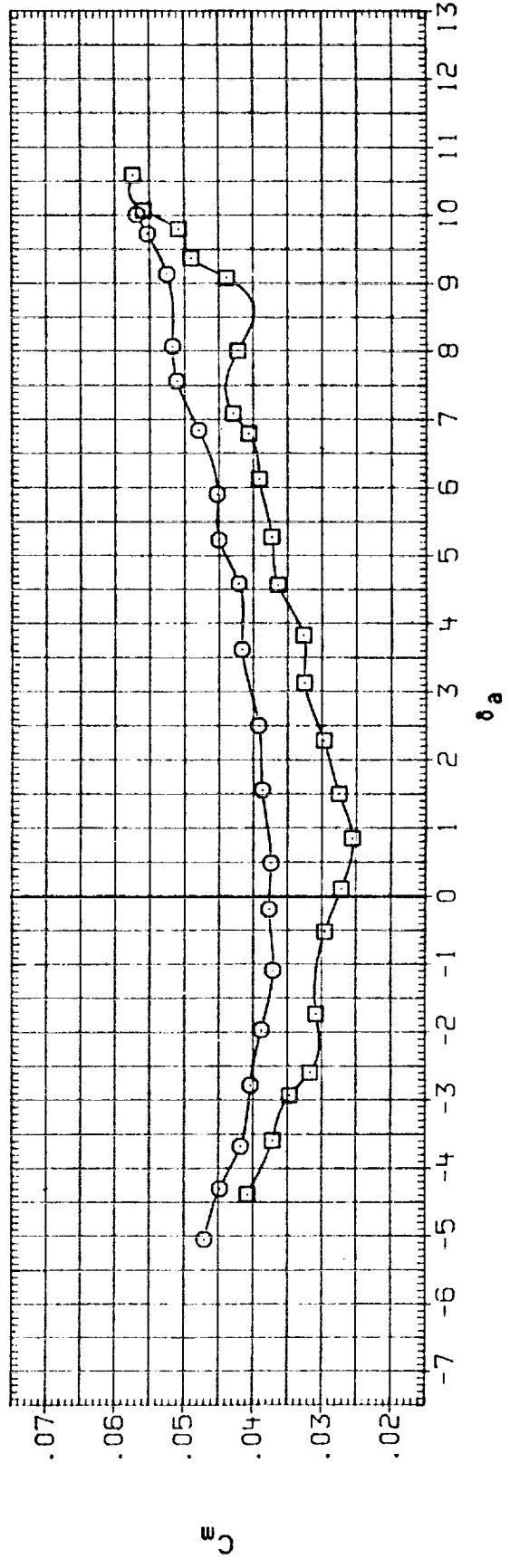
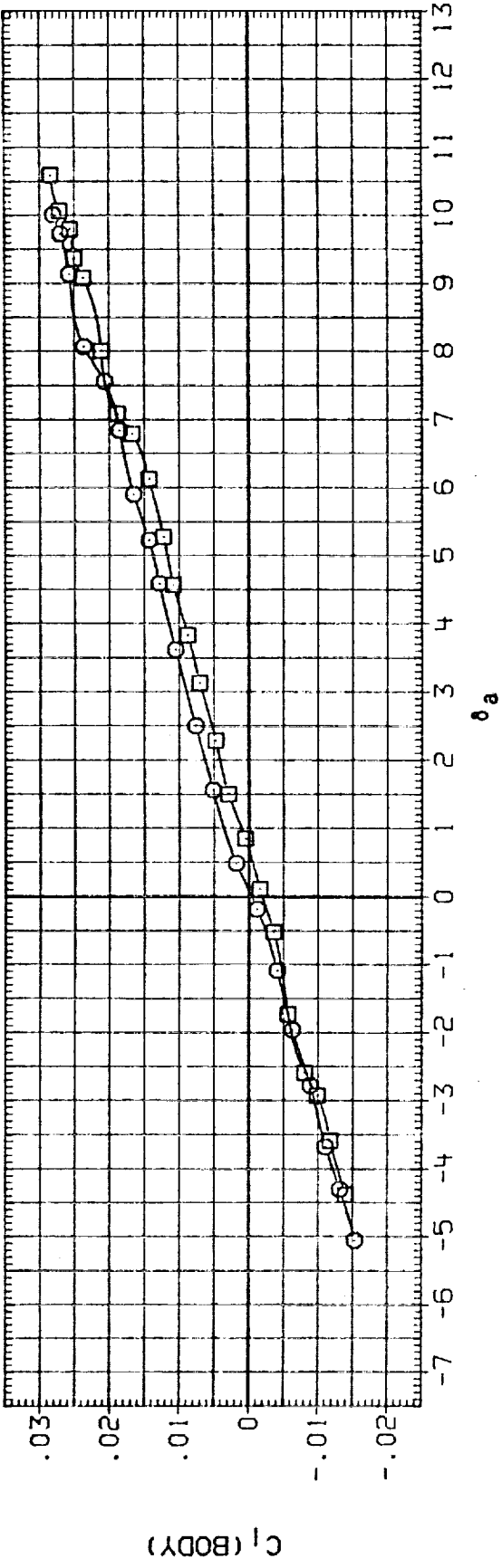


FIG. 41 EJECTOR RUNS WITHAILERON DEFLECTION, ALPHA = 0

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK107) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK110) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA BETA ELEVON

4.500 .000 .000 .000
 8.000 .000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

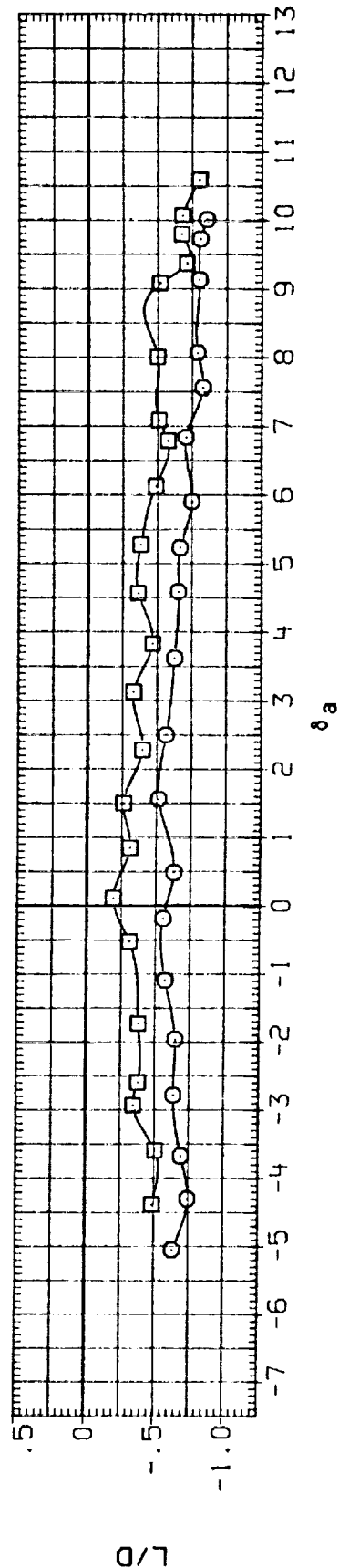
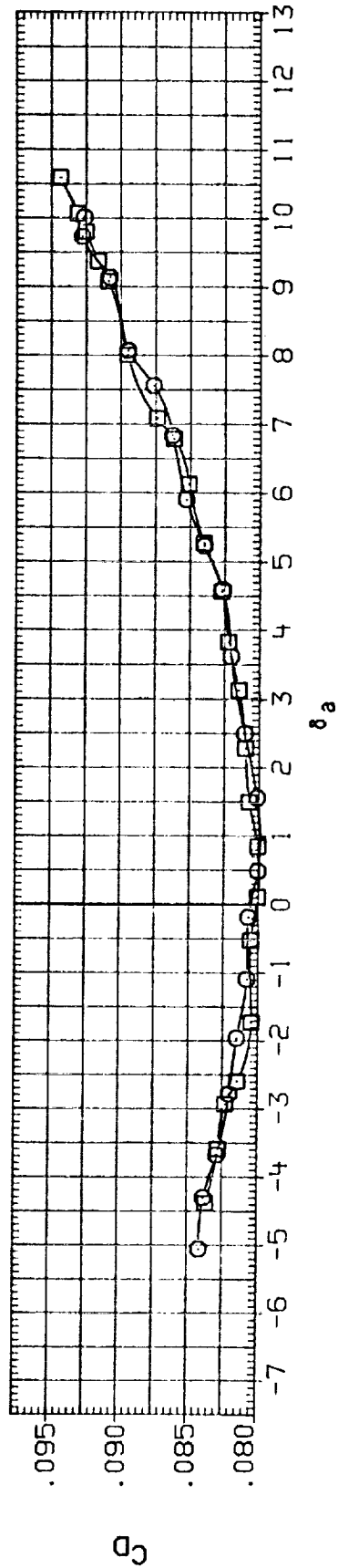
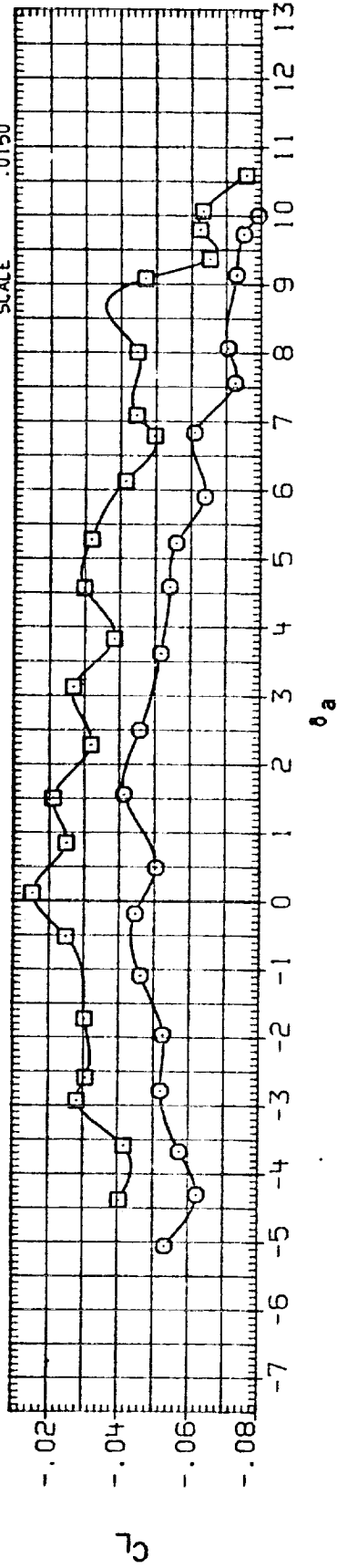


FIG. 41 EJECTOR RUNS WITHAILERON DEFLECTION, ALPHA = 0

DATA SET SYMBOL
(CUK107)
(CUK110)

CONFIGURATION DESCRIPTION
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L
4.500
8.000

ALPHA
.000
.000

BETA
.000
.000

ELEVON
.000
.000

REFERENCE INFORMATION
SREF 2690.0000 SQ. FT.
LREF 474.8000 INCHES
BREF 936.6800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

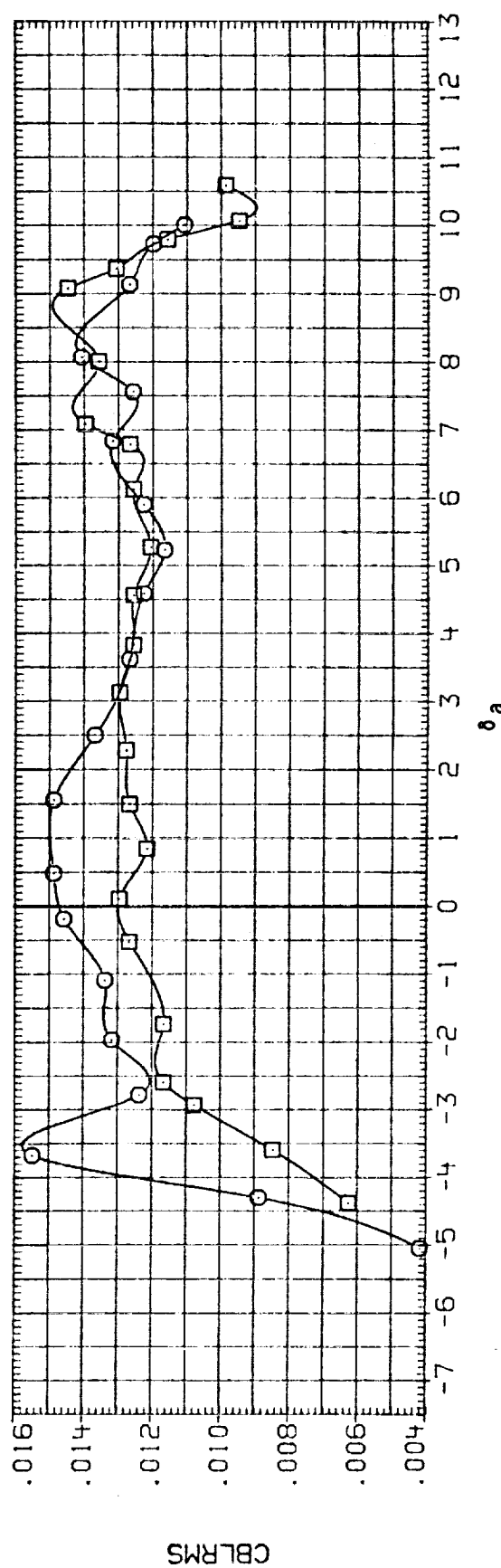
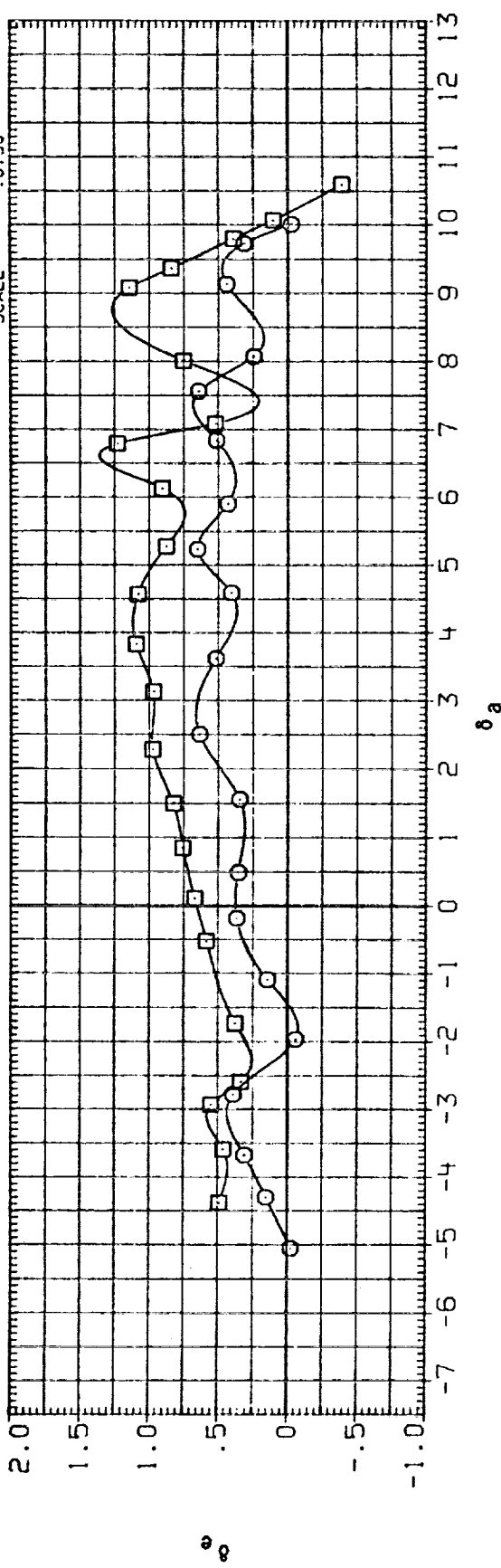


FIG. 41 EJECOR RUNS WITHAILERON DEFLECTION, ALPHA = 0

(A) MACH = .90

| | | | | | | |
|-----------------|--|-------|--------|------|--------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
| (RUK119) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | SREF 2690.0000 SO. FT. |
| (RUK121) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | 15.000 | .000 | .000 | LREF 474.6000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE 0.150 |

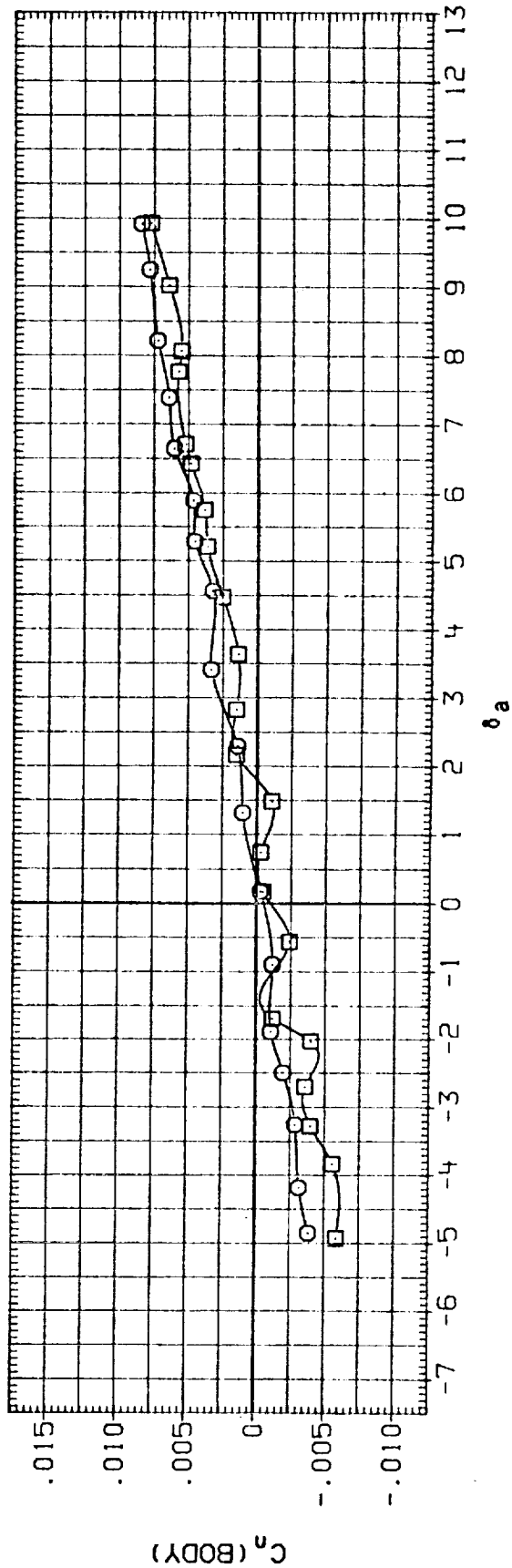
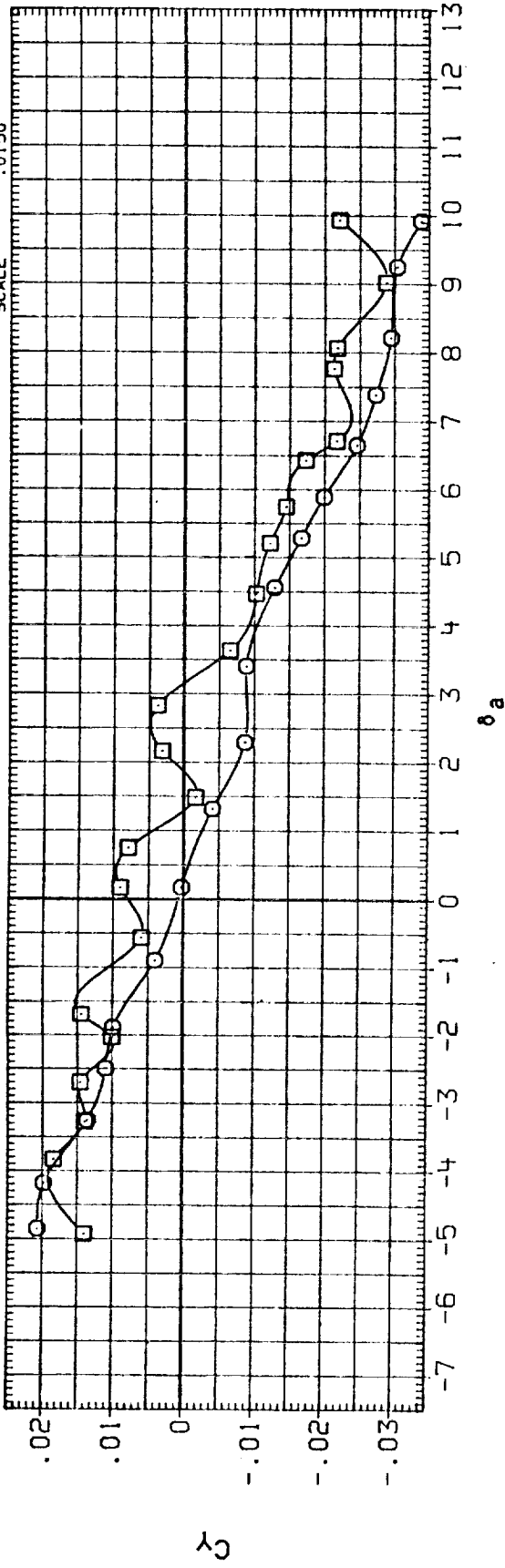


FIG. 42 EJECOR RUNS WITHAILERON DEFLECTION, ALPHA = 15

(A) MACH = .60

| | | | | | | |
|-----------------|--|-------|--------|------|--------|------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
| (RUK119) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | SREF 2690.0000 SQ. FT. |
| (RUK121) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | 15.000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 986.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

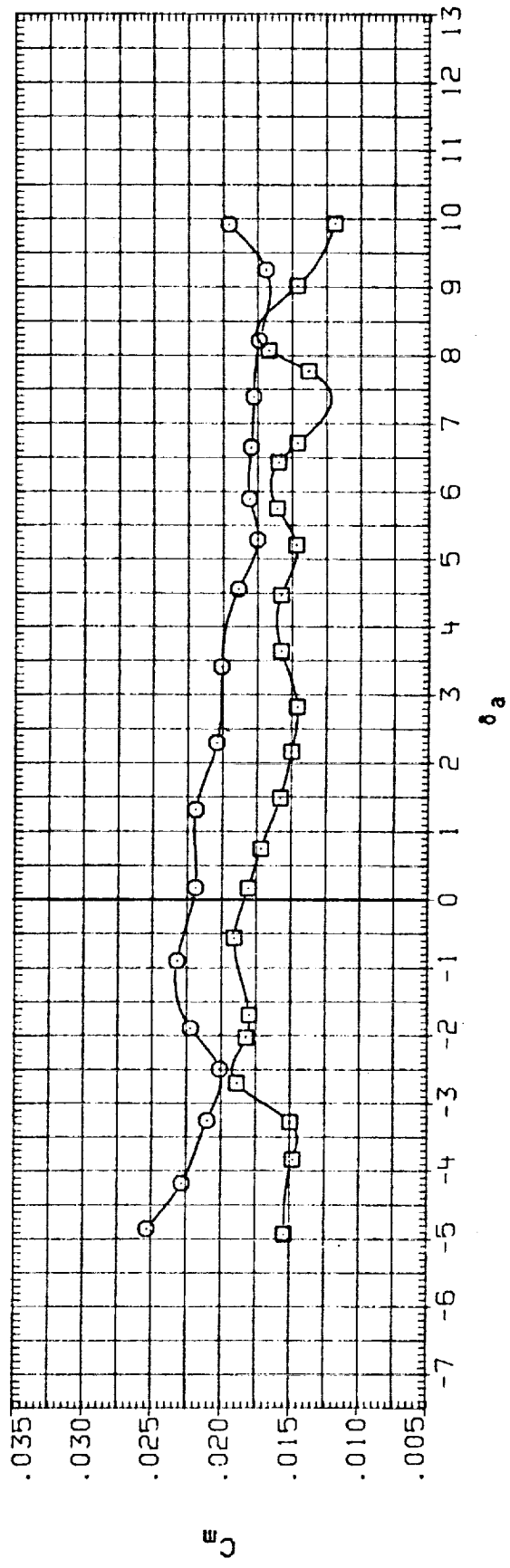
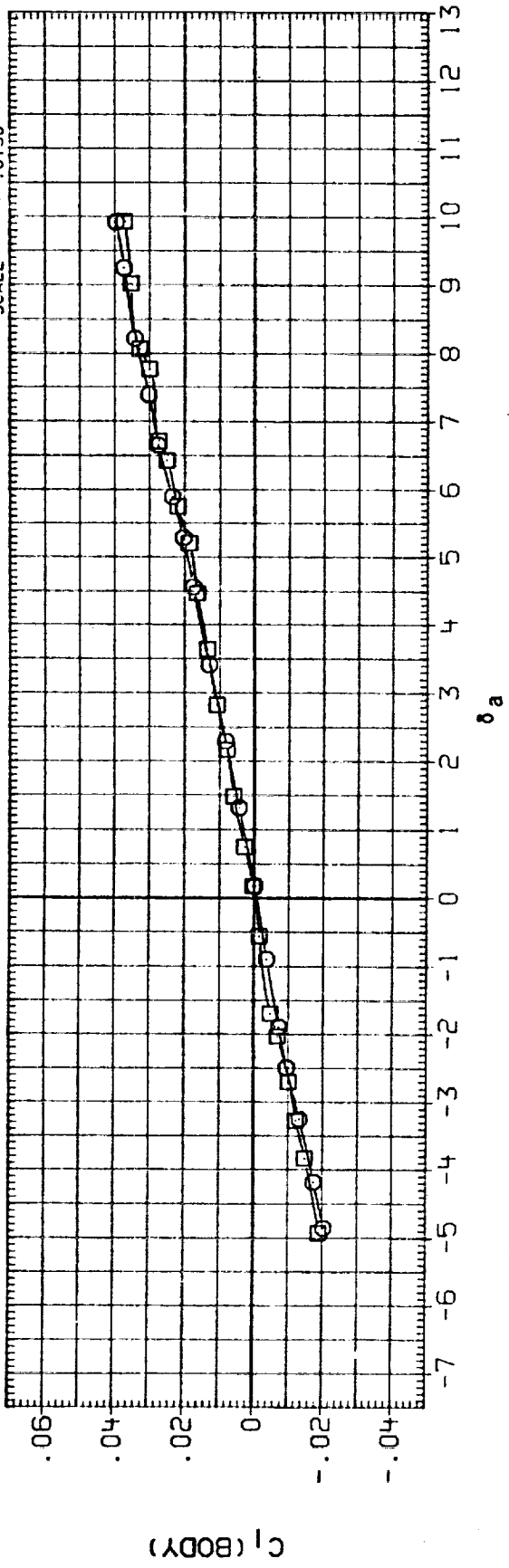


FIG. 42 EJECTOR RUNS WITHAILERON DEFLECTION, ALPHA = 15

(A) MACH = .60

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
|----------|--------|--|-------|--------|------|--------|------------------------|
| (RUK119) | ○ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | SREF 2690.0000 SO. FT. |
| (RUK121) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | 15.000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | | BREF 936.6800 INCHES |
| | | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

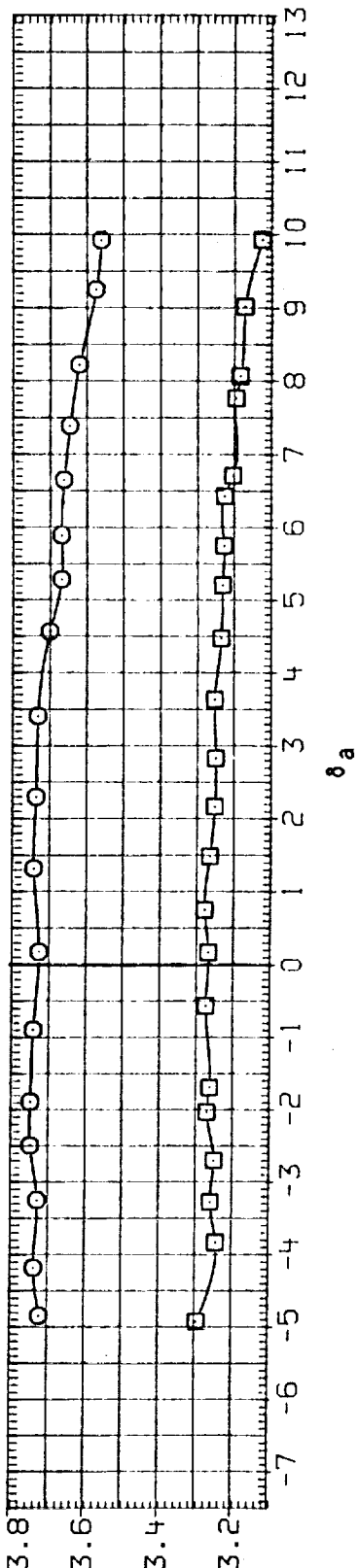
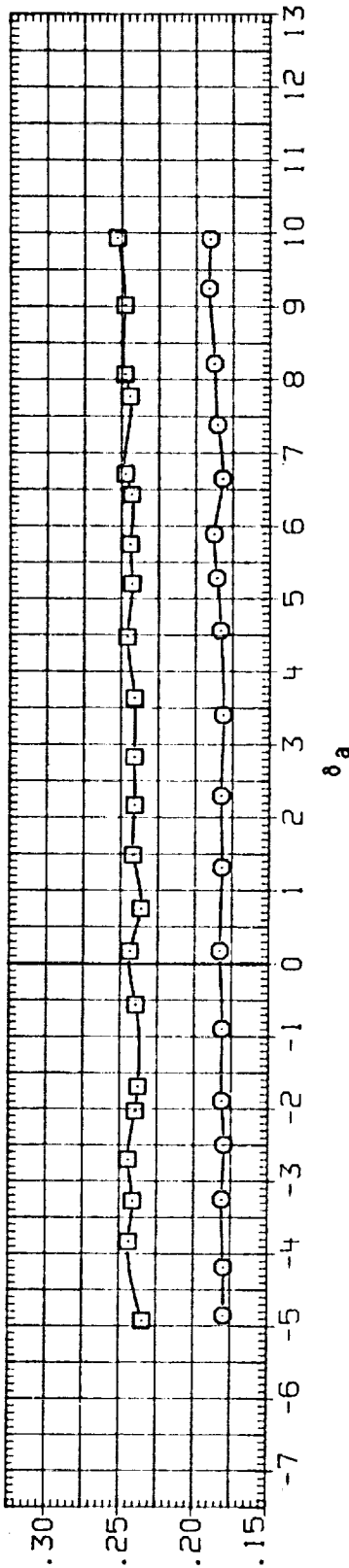
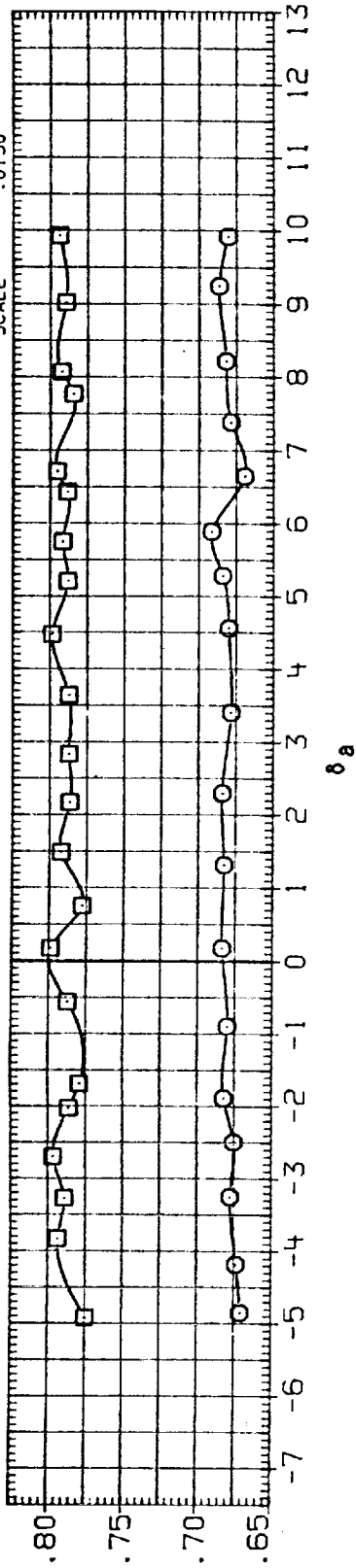


FIG. 42 EJECTOR RUNS WITHAILERON DEFLECTION, ALPHA = 15

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK119) ○ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(CUK121) □ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

RN/L ALPHA BETA ELEVON

4.500 15.000 .000 .000

8.000 15.000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SO. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

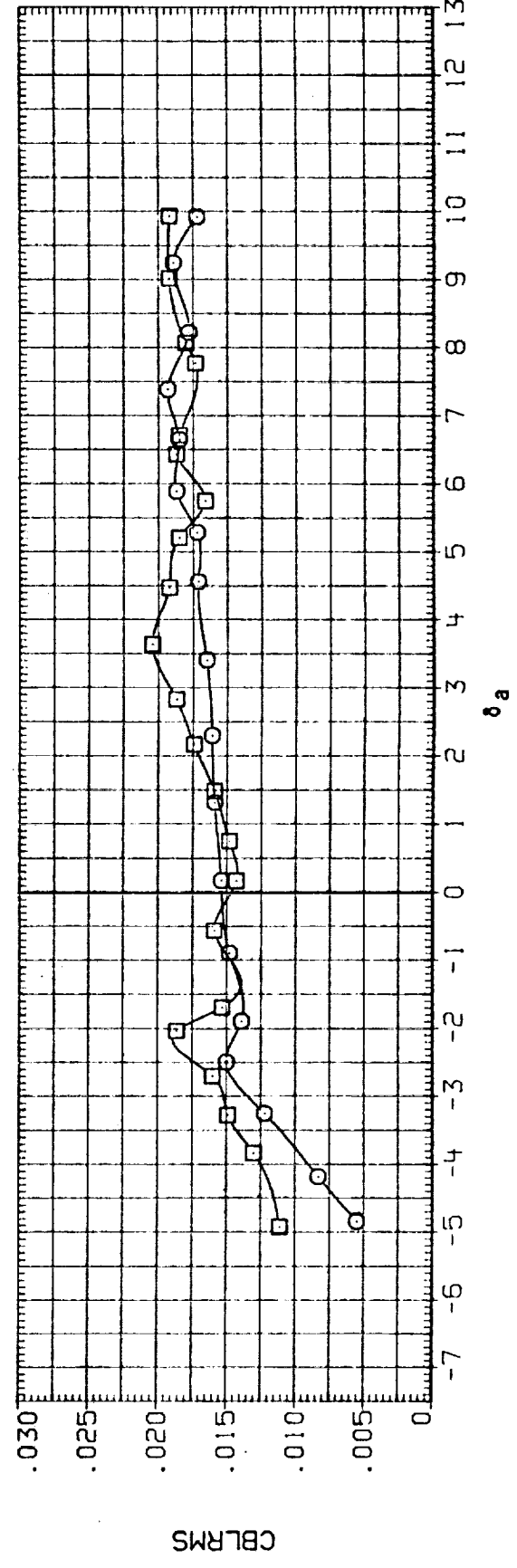
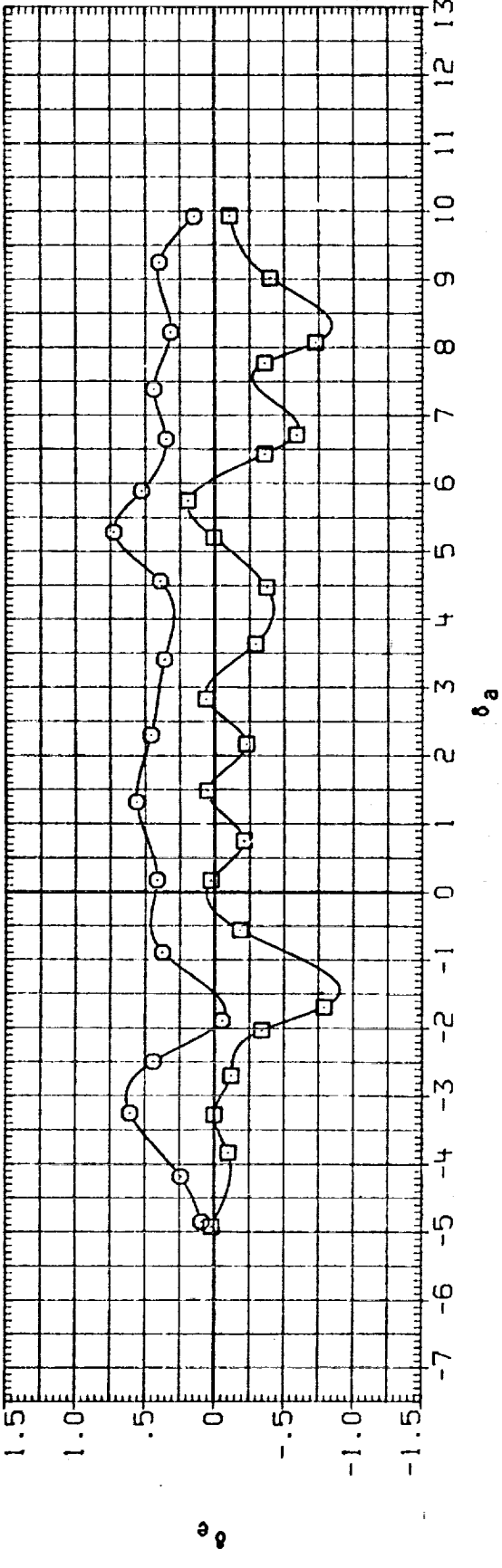


FIG. 42 EJECOR RUNS WITHAILERON DEFLECTION, ALPHA = 15

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK119) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK121) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA BETA ELEVON

4.500 15.000 .000 .000

8.000 15.000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 935.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

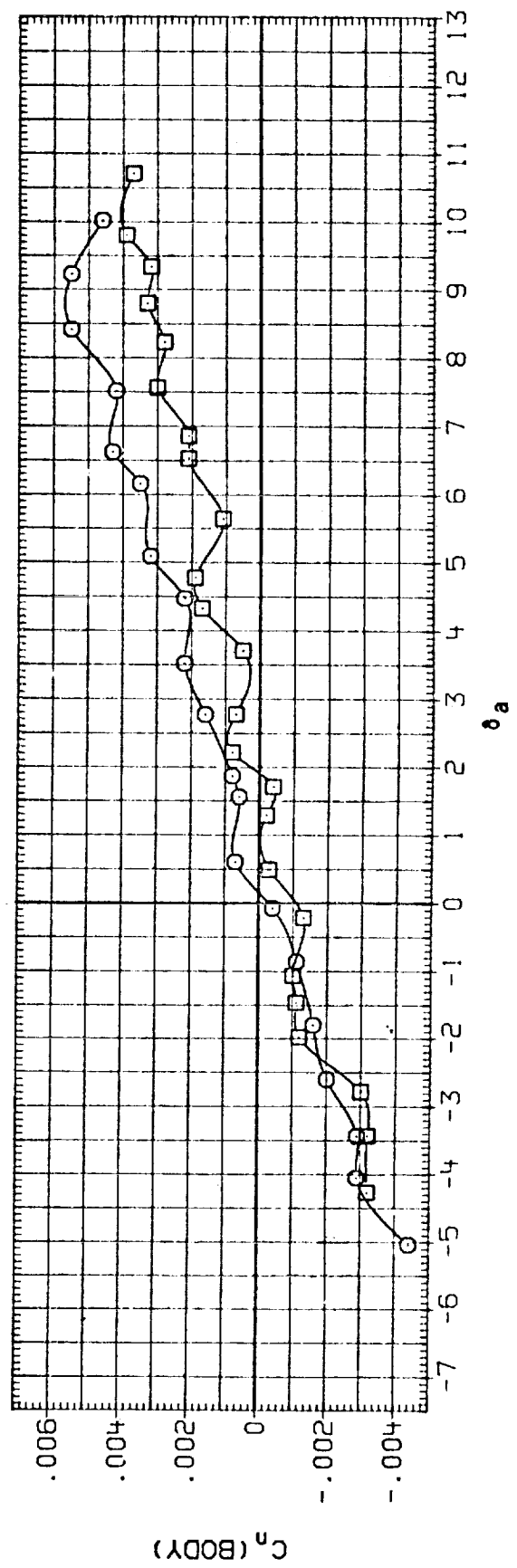
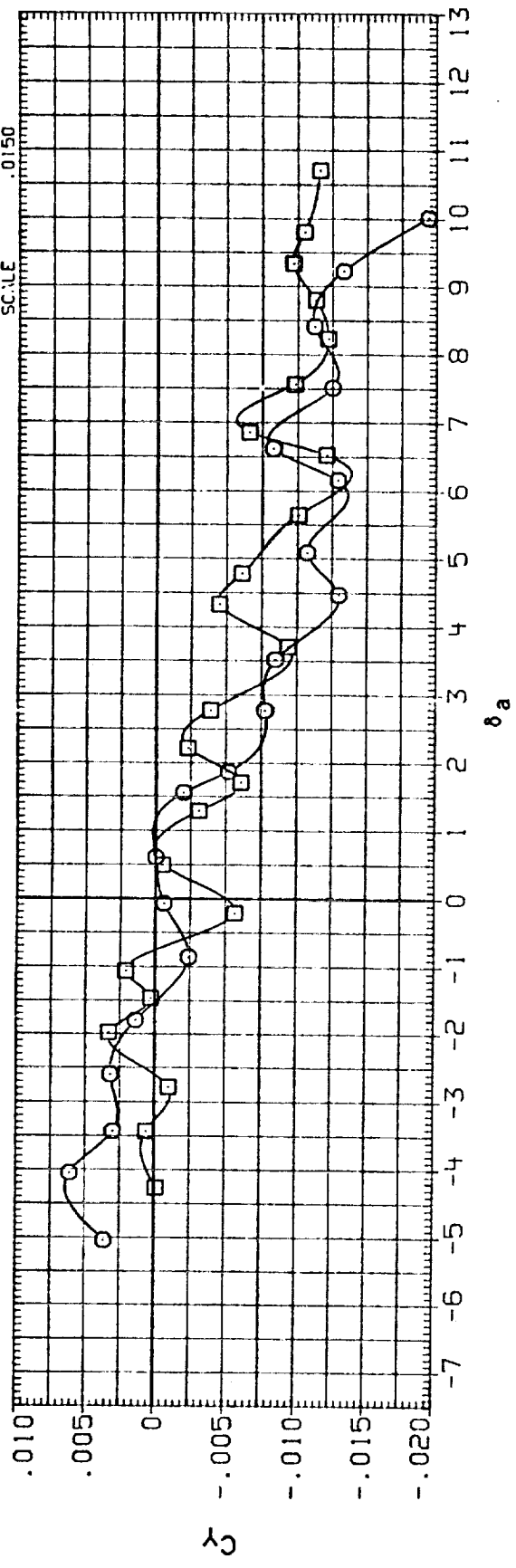


FIG. 42 EJECTOR RUNS WITHAILERON DEFLECTION, ALPHA = 15

(A)MACH = .90

| | | | | | | |
|-----------------|--|-------|--------|------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
| (RUK119) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK121) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | 15.000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

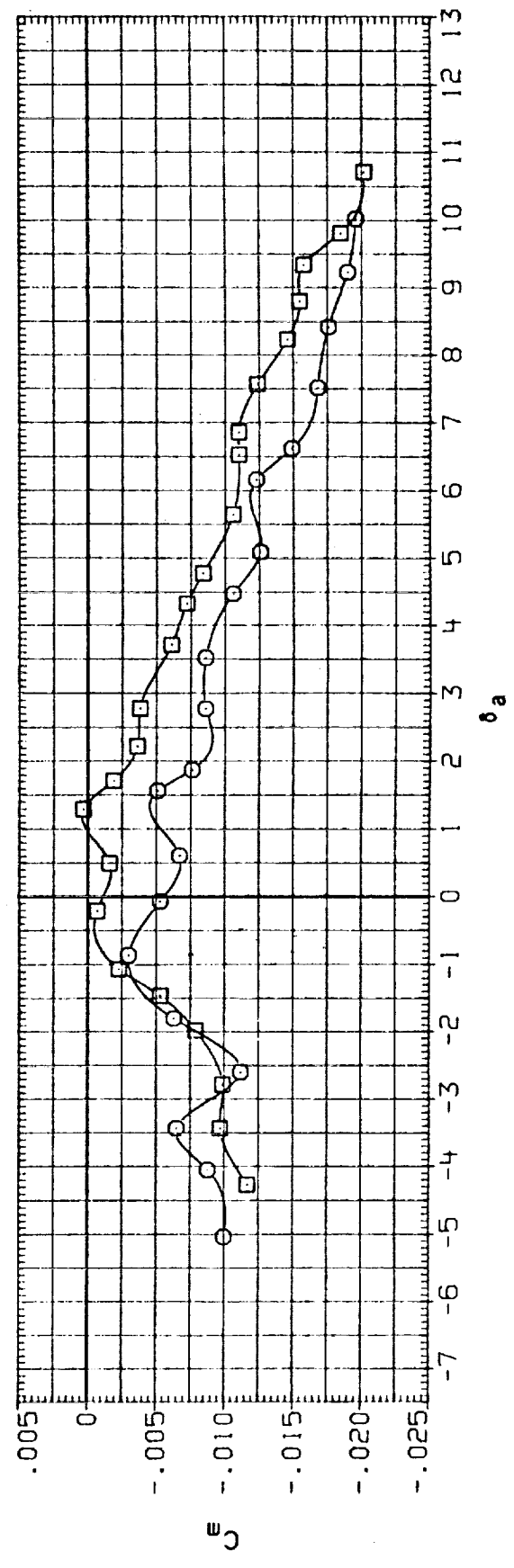
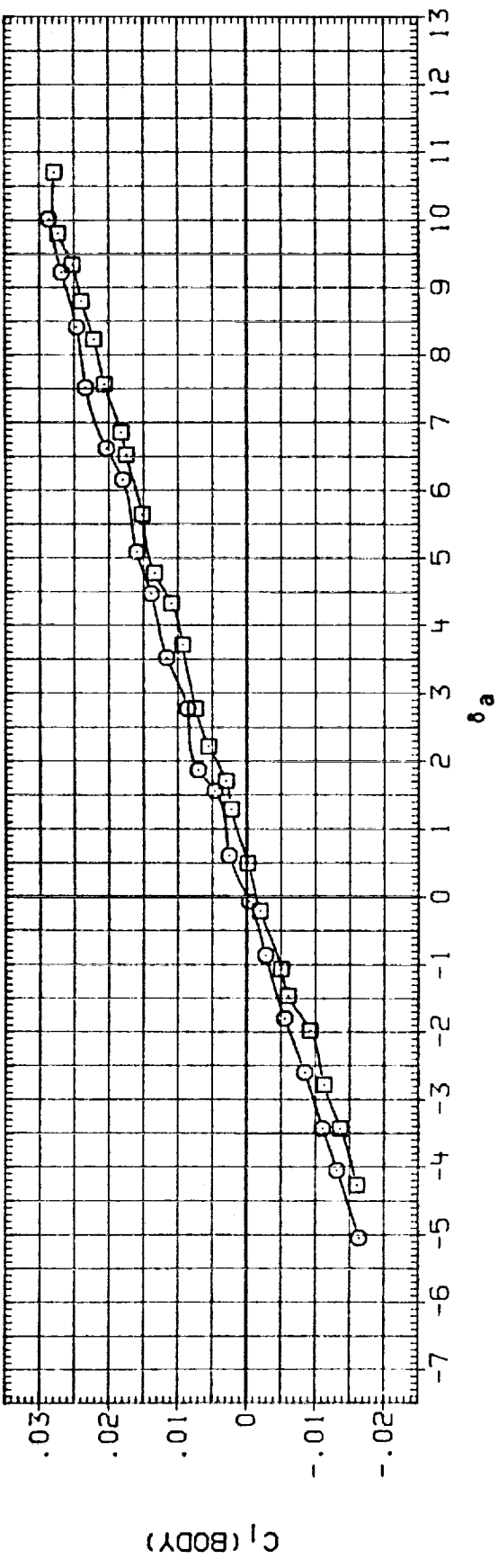


FIG. 42 EJECOR RUNS WITHAILERON DEFLECTION, ALPHA = 15

(A)MACH = .90

| | | | | | | |
|-----------------|--|-------|--------|------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
| (RUK119) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 4.500 | 15.000 | .000 | .000 | SREF 2690.0000 50.FT. |
| (RUK121) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | 8.000 | 15.000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | YMRP 1076.7000 IN. YO |
| | | | | | | ZMRP .0000 IN. YO |
| | | | | | | SCALE .0150 |

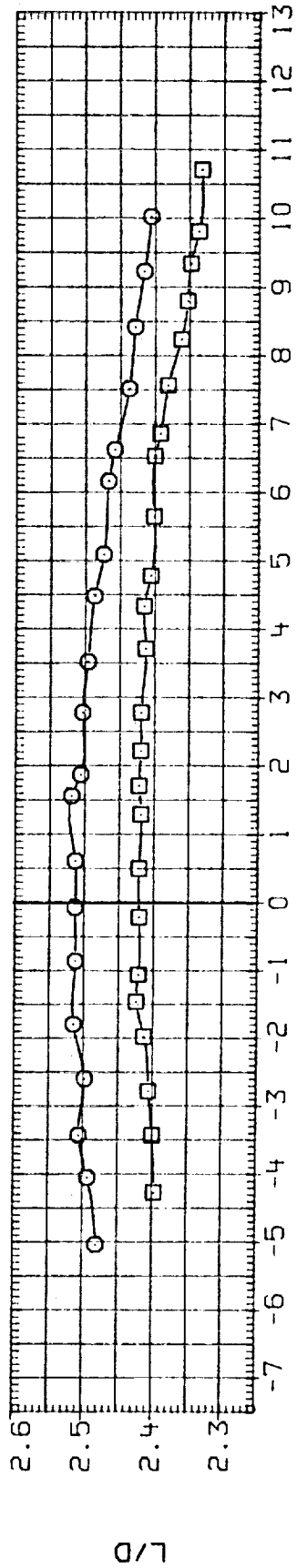
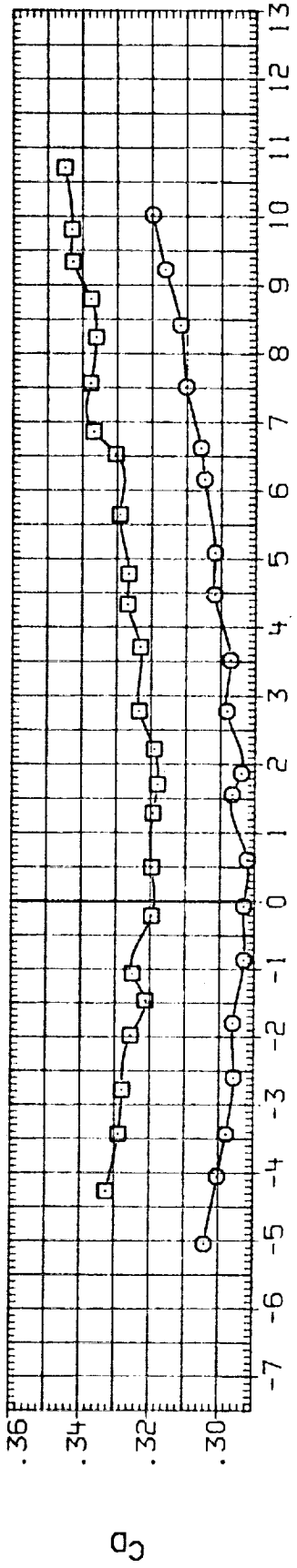
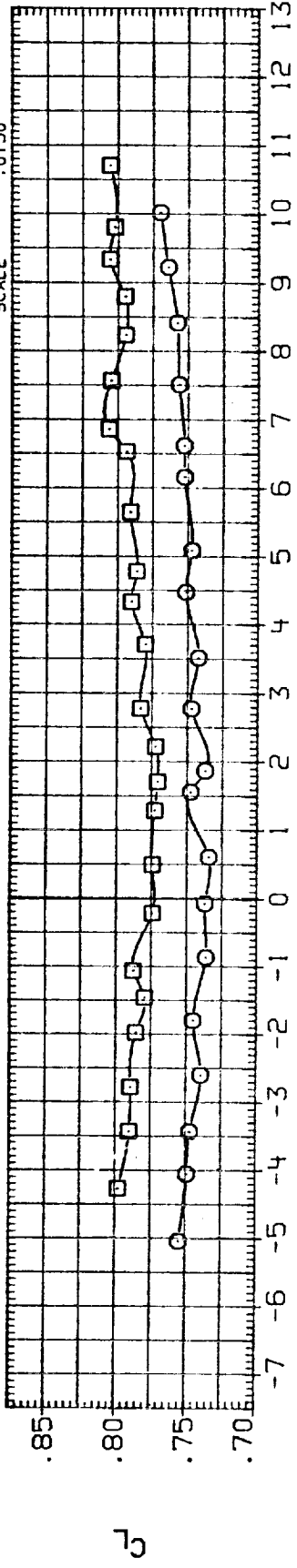


FIG. 42 EJECOR RUNS WITHAILERON DEFLECTION, ALPHA = 15

(A)MACH = .90

| | | | | | | |
|-----------------|--|-------|--------|------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | RN/L | ALPHA | BETA | ELEVON | REFERENCE INFORMATION |
| (CUK119) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 4.500 | 15.000 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (CUK121) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 8.000 | 15.000 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

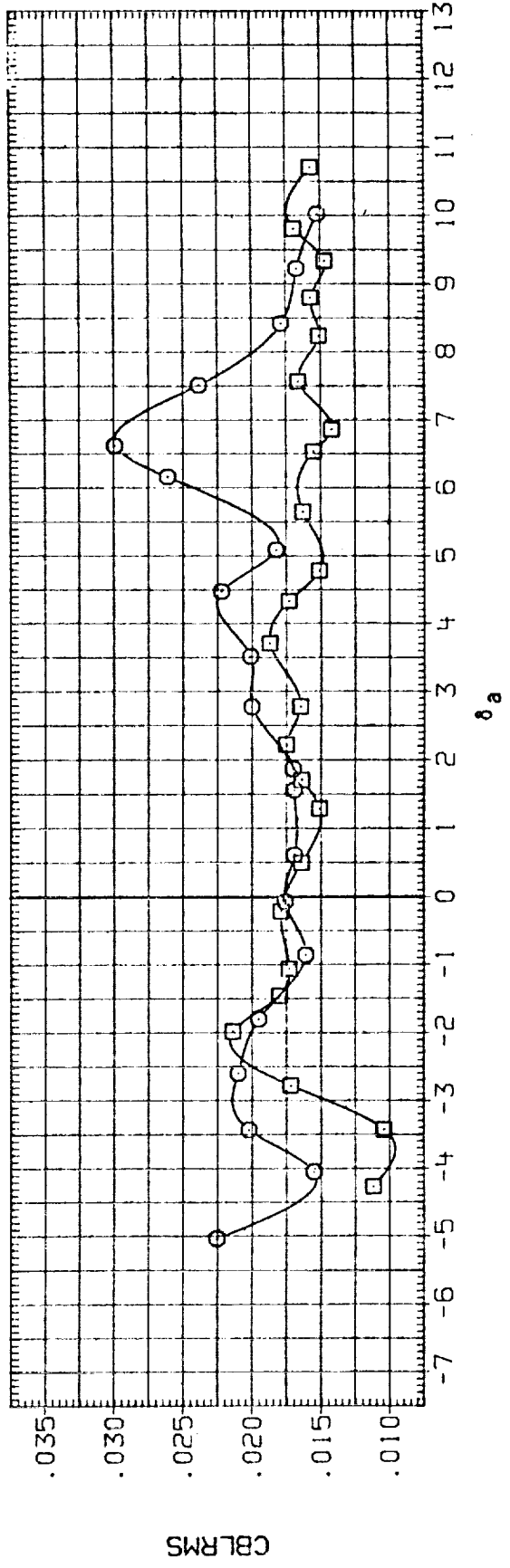
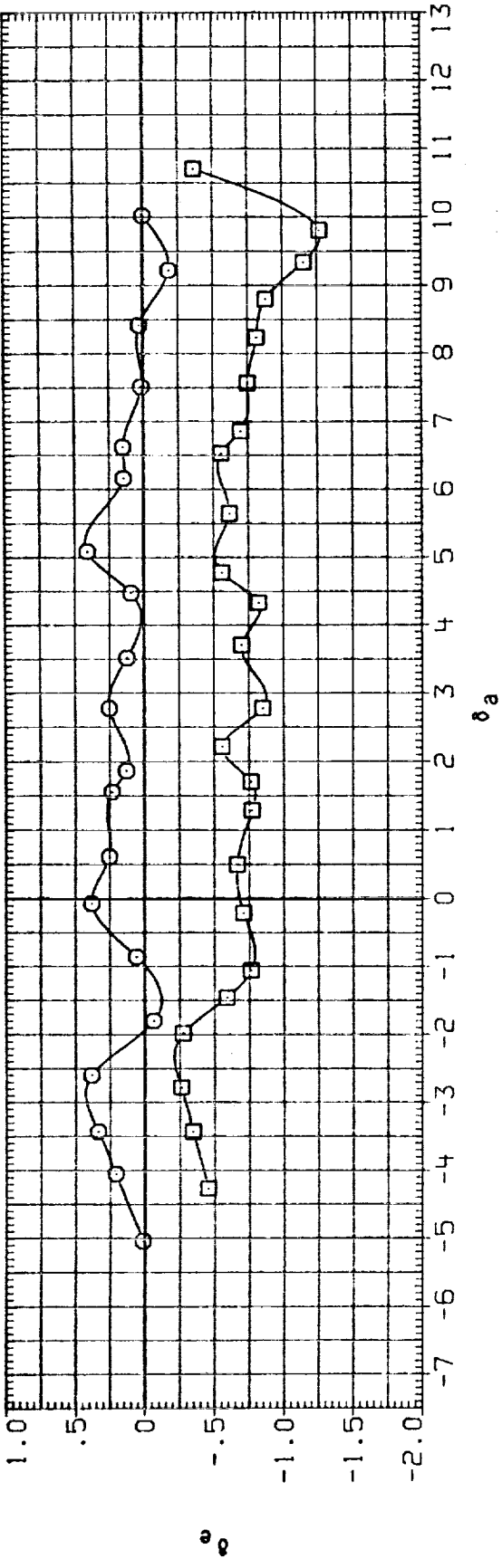


FIG. 42 EJECOR RUNS WITHAILERON DEFLECTION, ALPHA = 15

(A)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK029) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000
 .000
 RN/L 4.500
 4.500
 ELEVON .000
 .000
 ALLIRON .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6900 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE 0.150

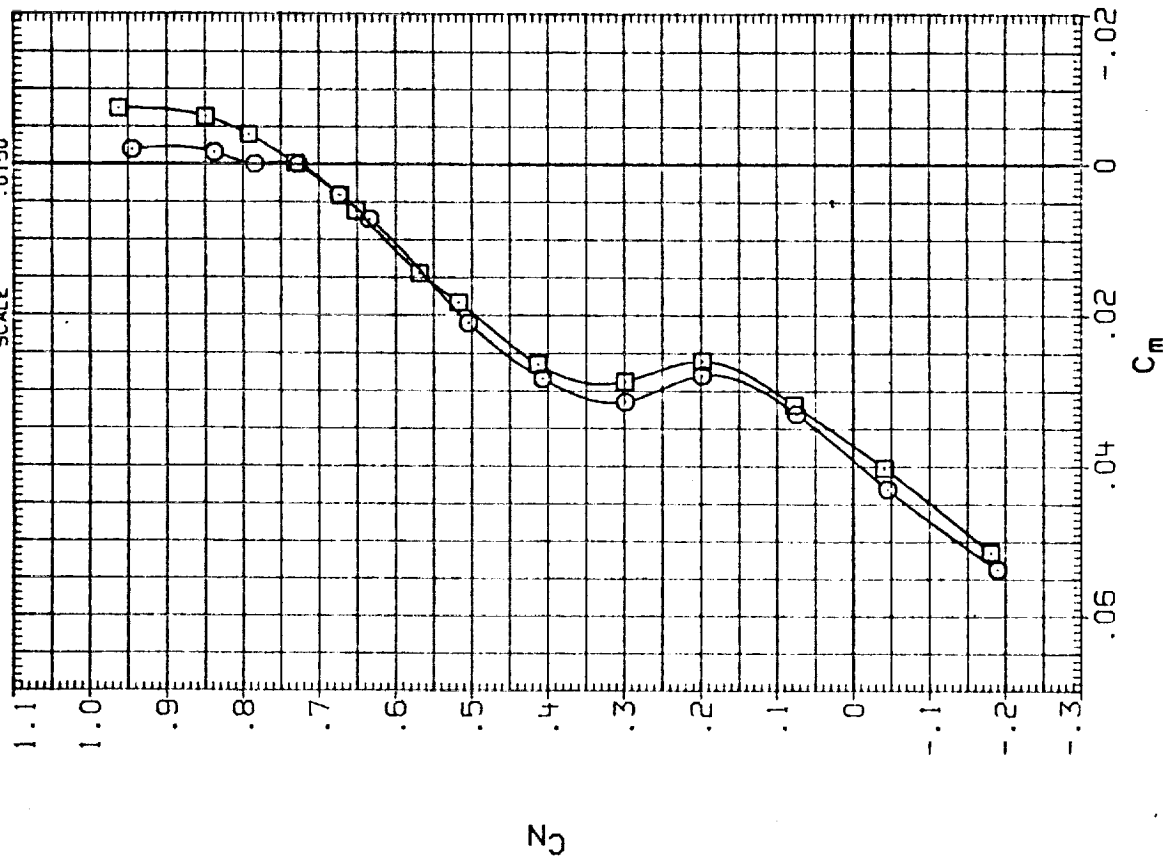
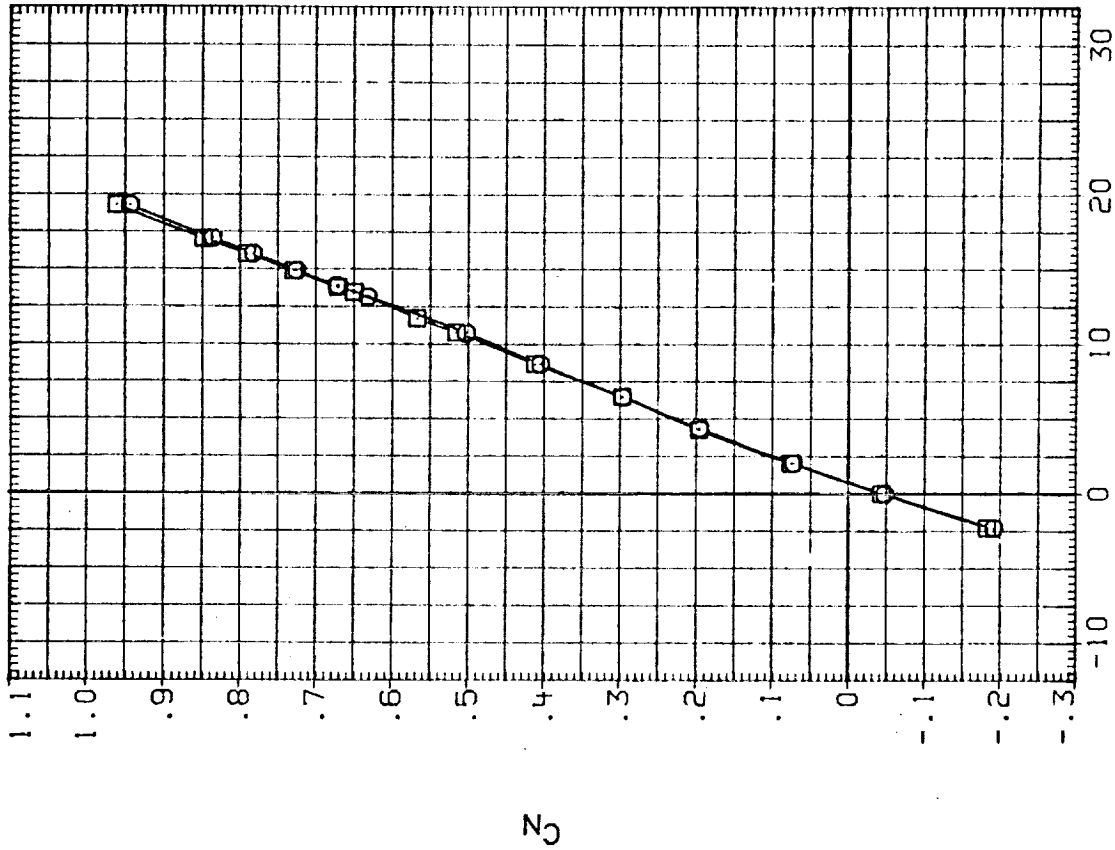
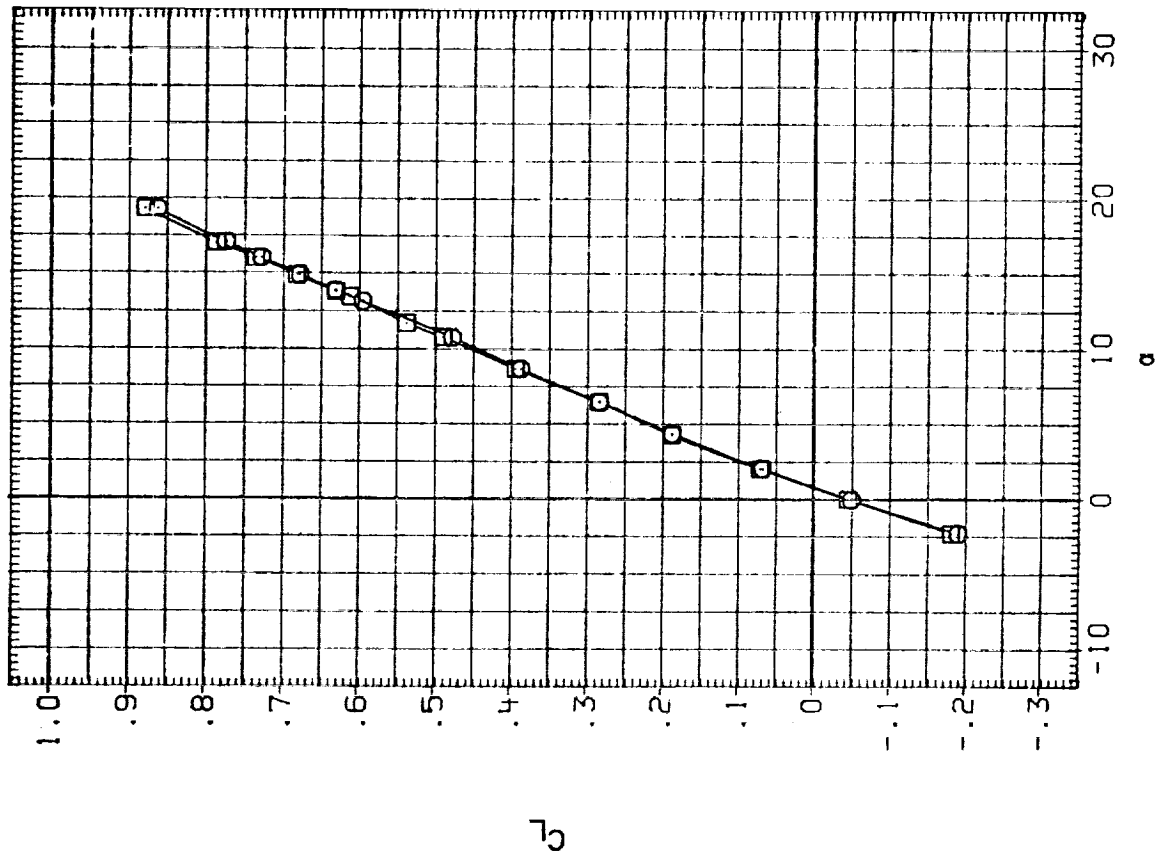


FIG. 43 REPEATABILITY IN PITCH

(A)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) ○ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)
 (RUK029) □ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)



BETA .000
 .000
 RW/L 4.500
 4.500
 ELEVON .000
 .000
 AIRLION .000
 .000
 REFERENCE INFORMATION
 SREF 2690.0000 50. FT.
 LREF 474.8000 INCHES
 XMPR 936.6800 INCHES
 YMPR 1076.7000 IN. X0
 ZMPR .0000 IN. Y0
 375.0000 IN. Z0
 SCALE .0150

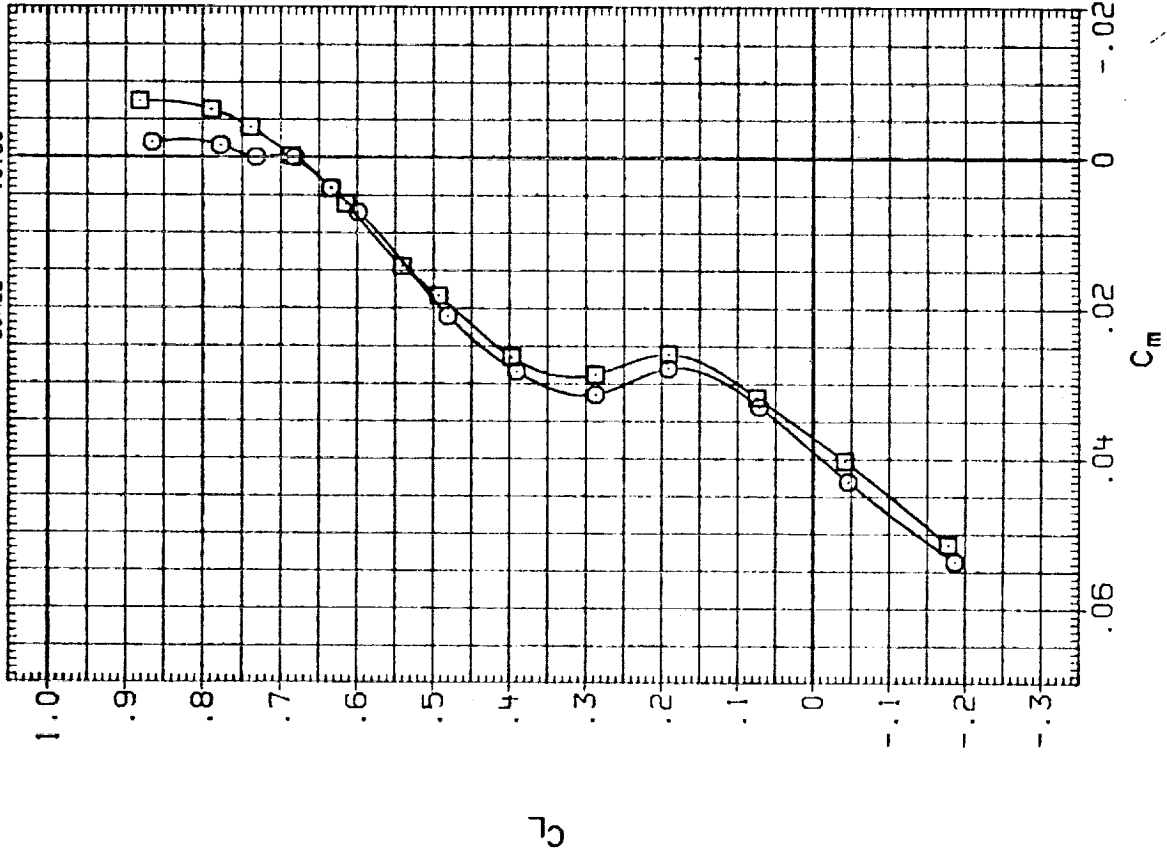


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .90

DATA SET SYMBOL
 (RUK028) ○
 (RUK029) □

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000
 .000

RN/L 4.500
 4.500

ELEVON .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

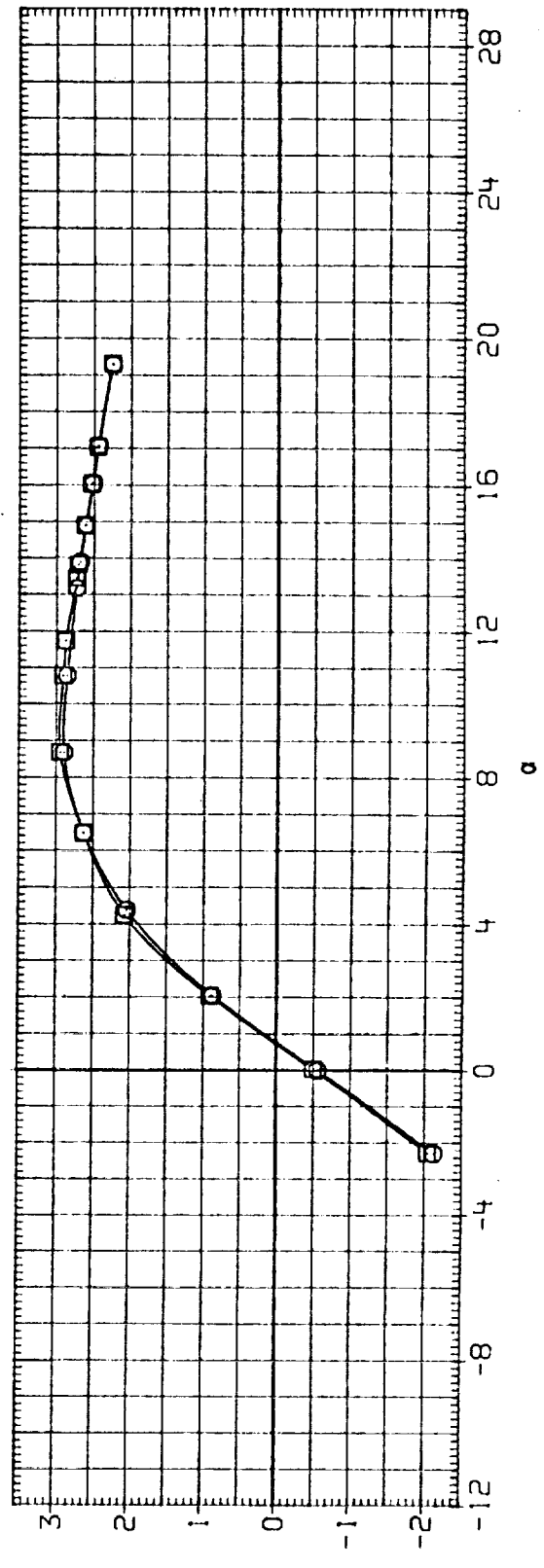
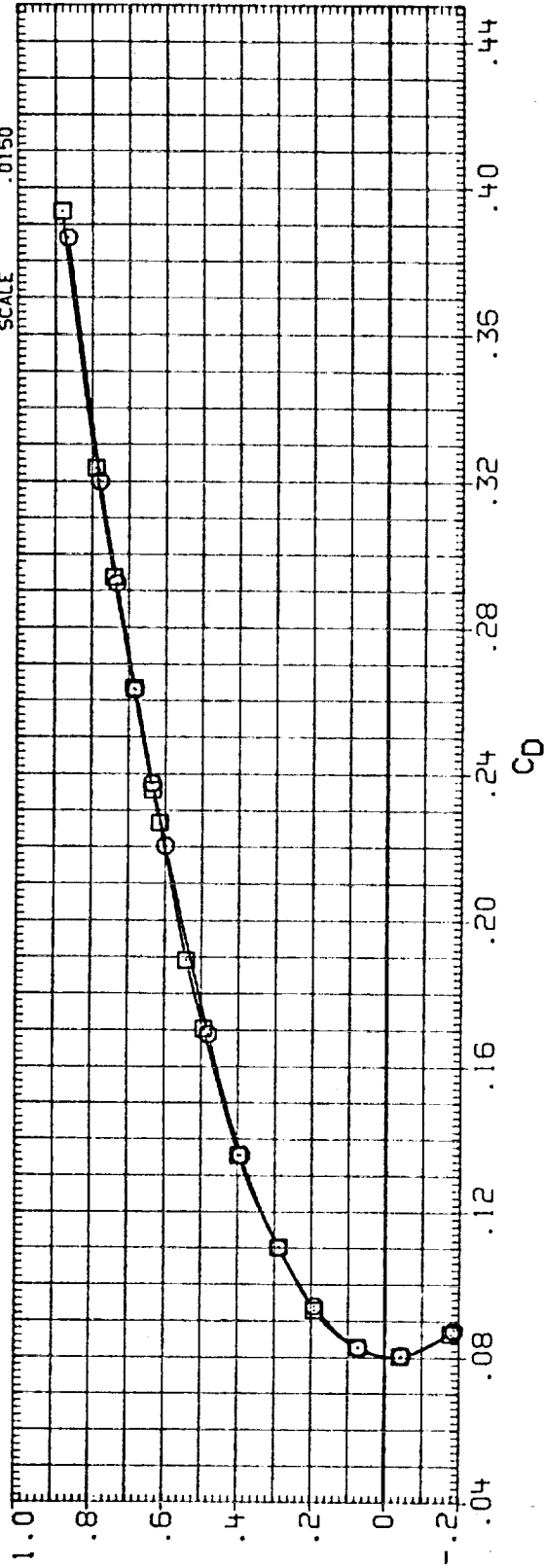


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 (RUK029) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

BETA RV/L ELEVON AIRLON
 .000 4.500 .000 .000
 .000 4.500 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BRFF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

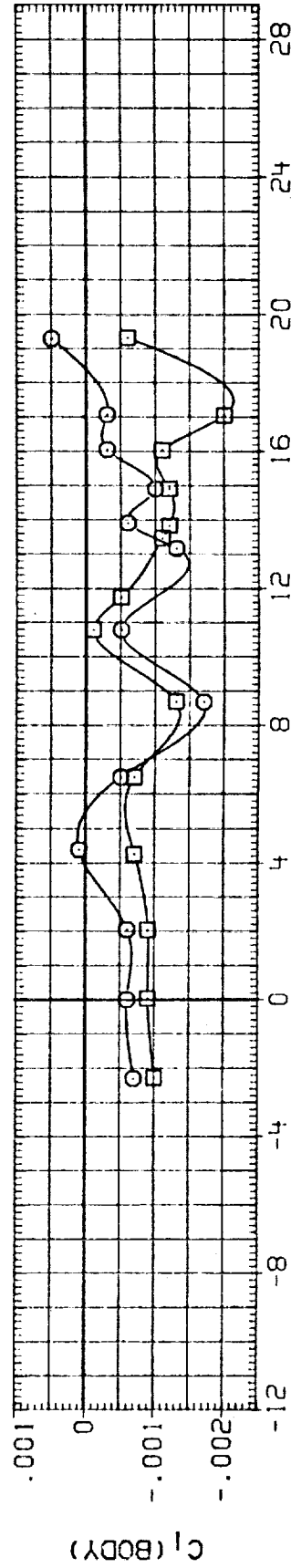
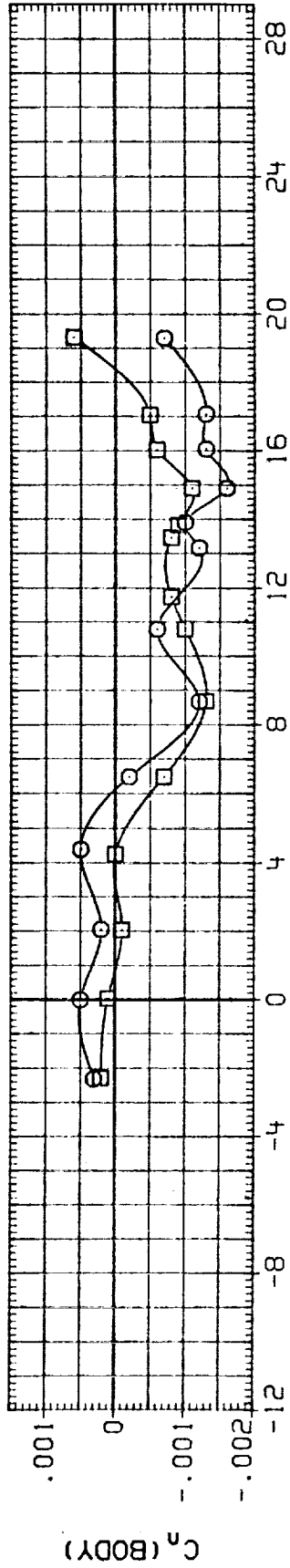
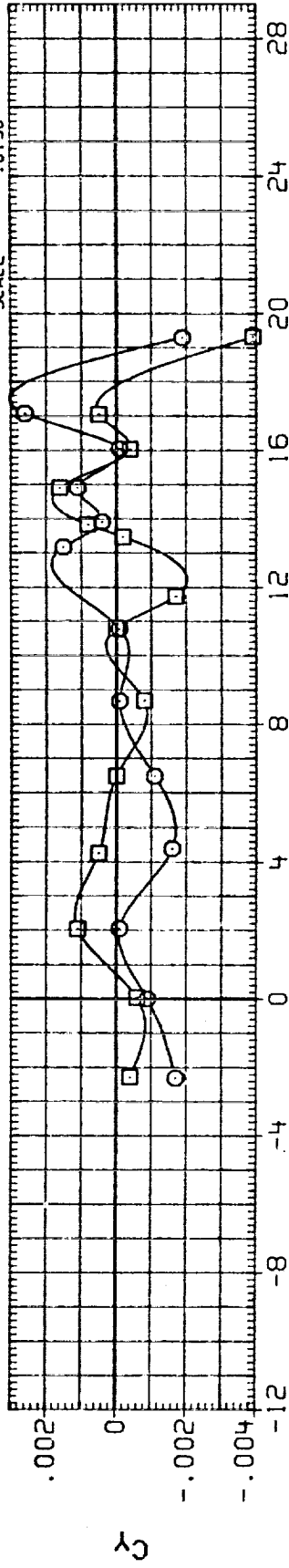


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .90

| | | | | | | |
|-----------------|--|------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
| (CUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (CUK029) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

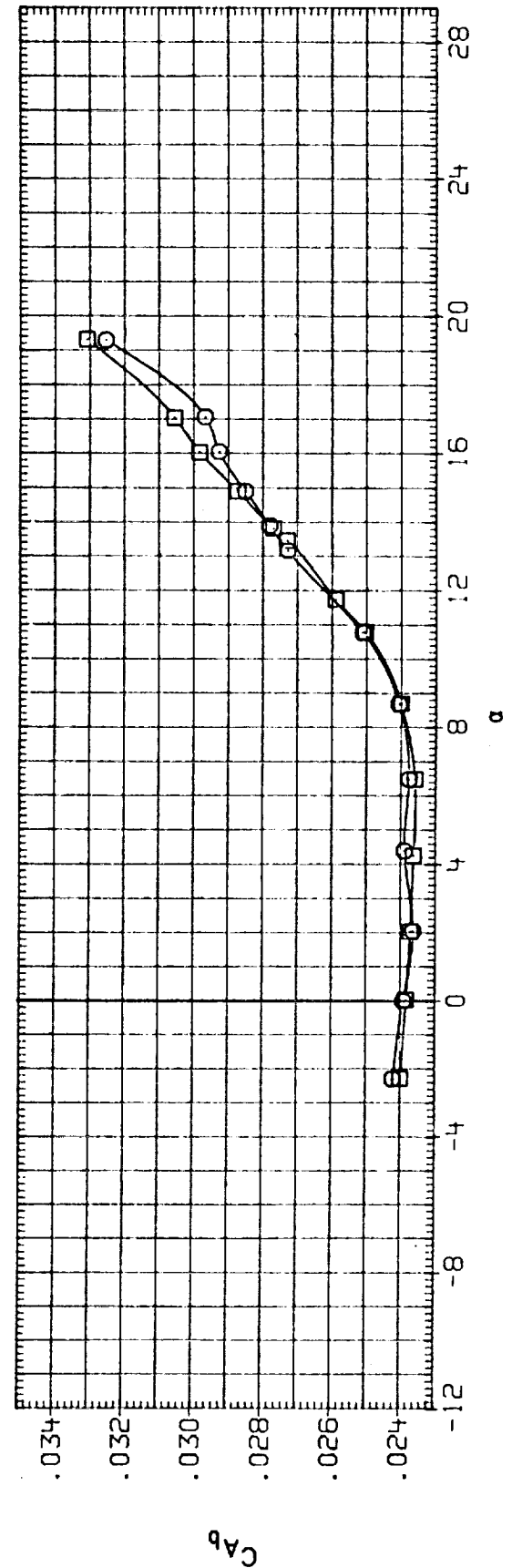
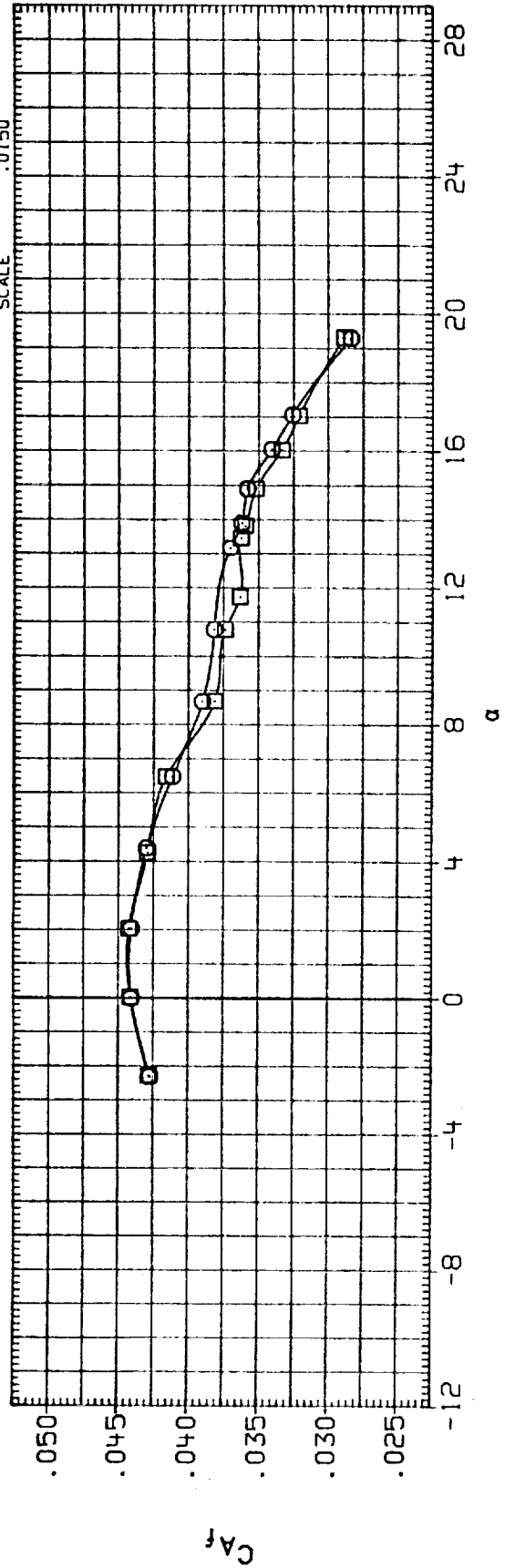


FIG. 43 REPEATABILITY IN PITCH

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA RN/L ELEVON AIRLON

(CUK028) O LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) .000 4.500 .000 .000

(CUK029) □ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) .000 4.500 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

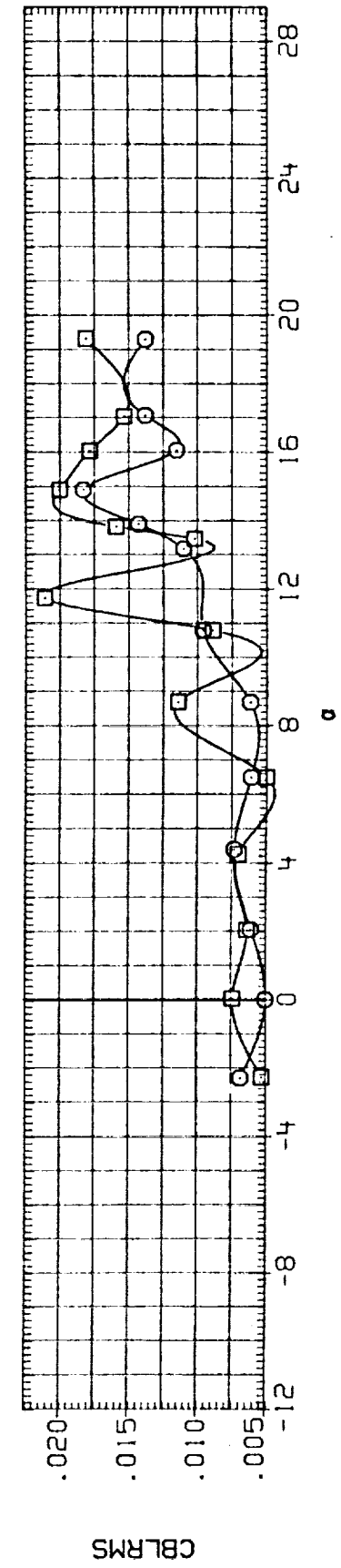
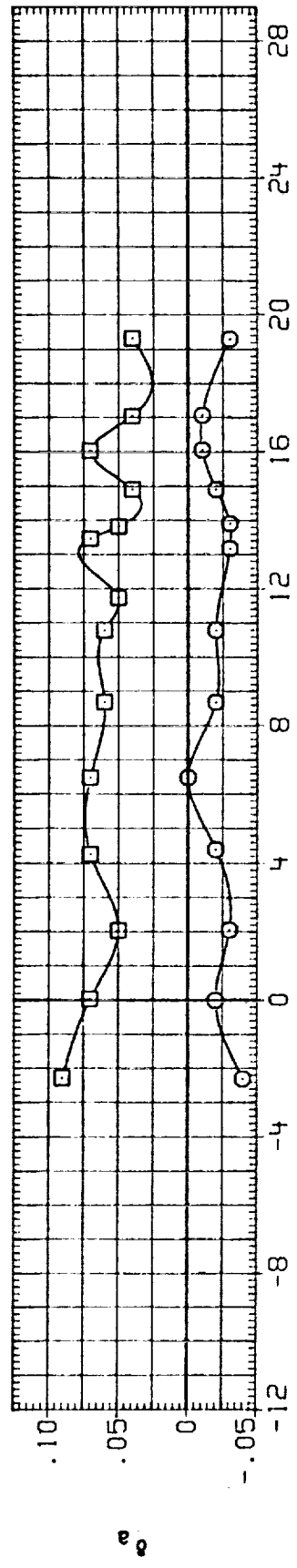
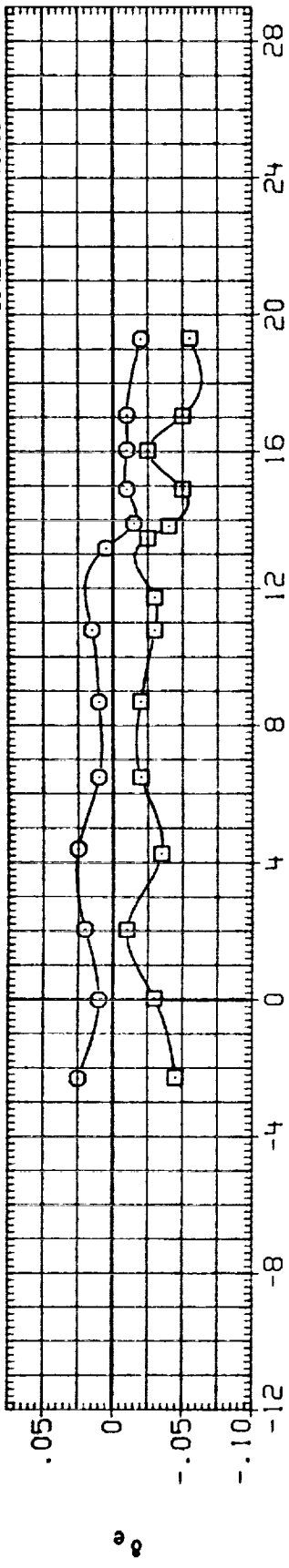


FIG. 43 REPEATABILITY IN PITCH

(A)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (RUK029) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000
 .000
 RN/L 4.500
 4.500
 ELEVON .000
 .000
 AILRON .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

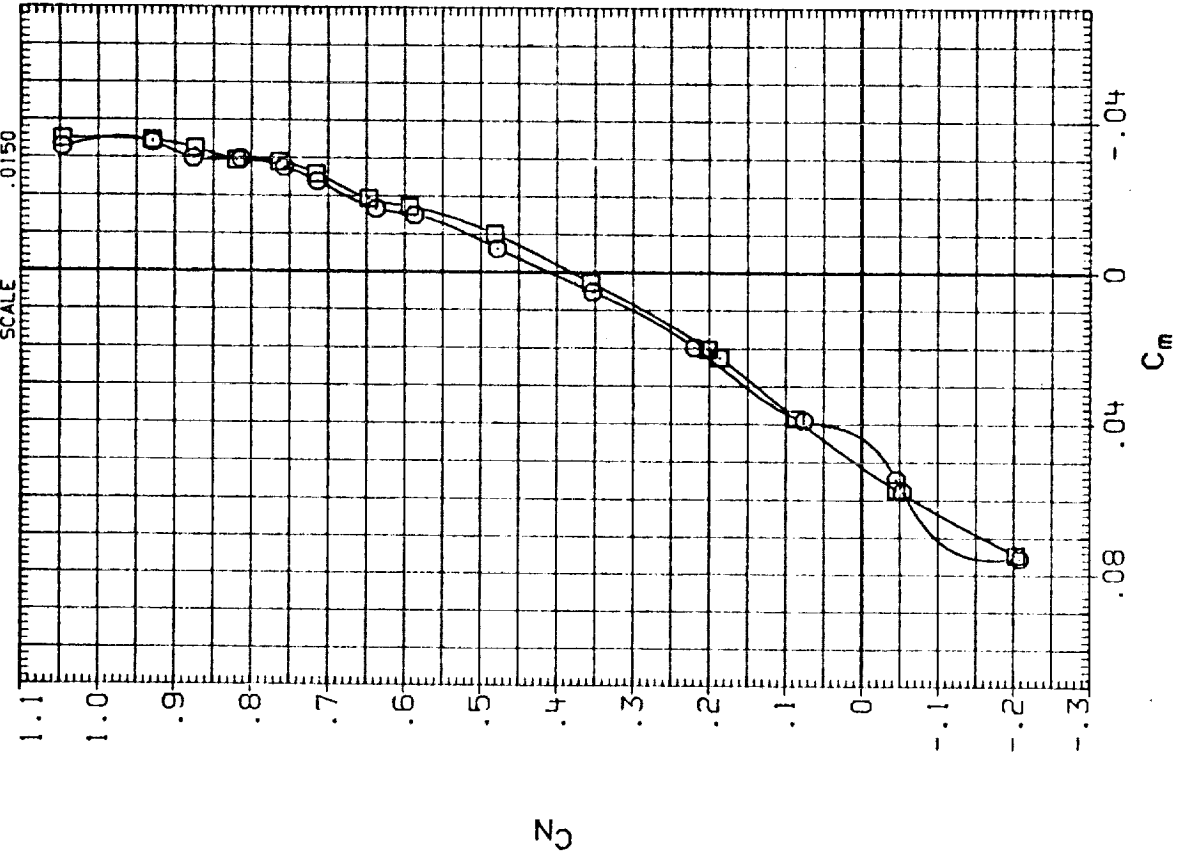
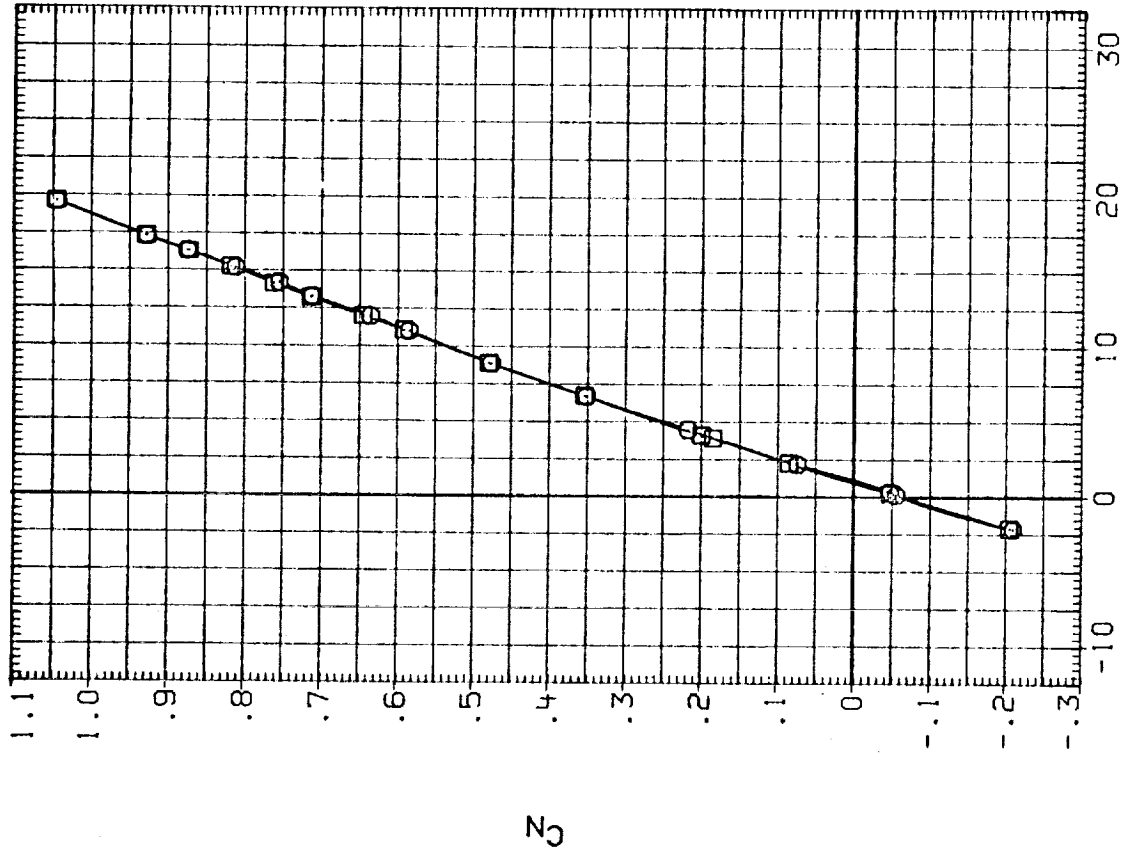


FIG. 43 REPEATABILITY IN PITCH

(A)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUK028) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)
 (RUK029) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIRLON
 .000 4.500 .000 .000
 .000 4.500 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

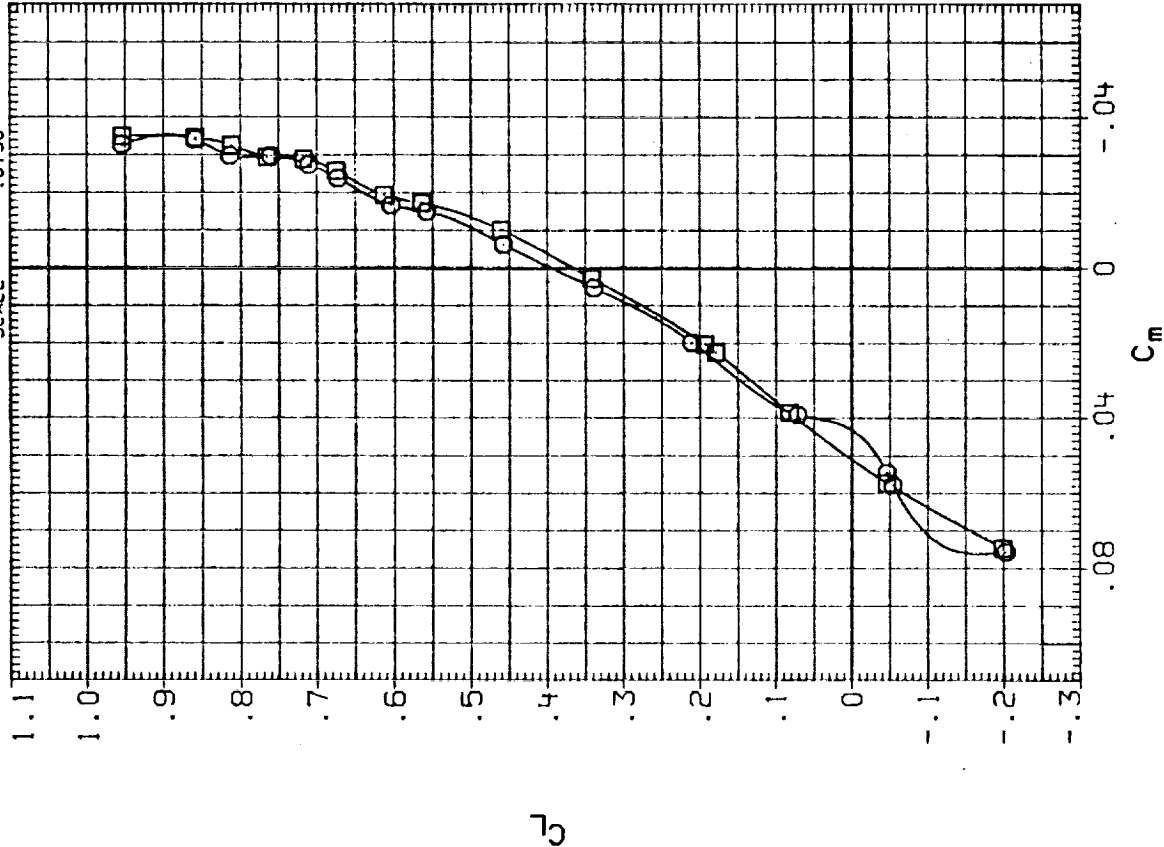
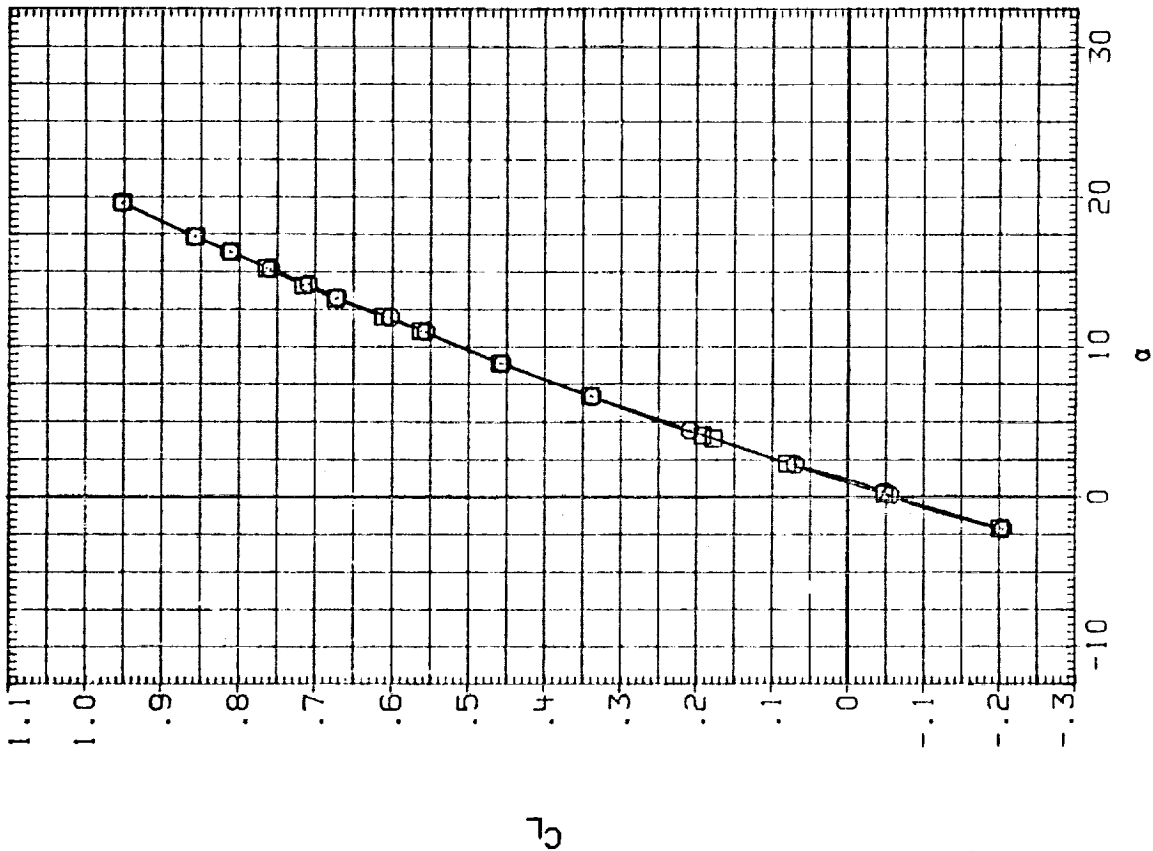


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK029) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

BETA RN/L ELEVON AIRLON

.000 4.500 .000 .000

.000 4.500 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

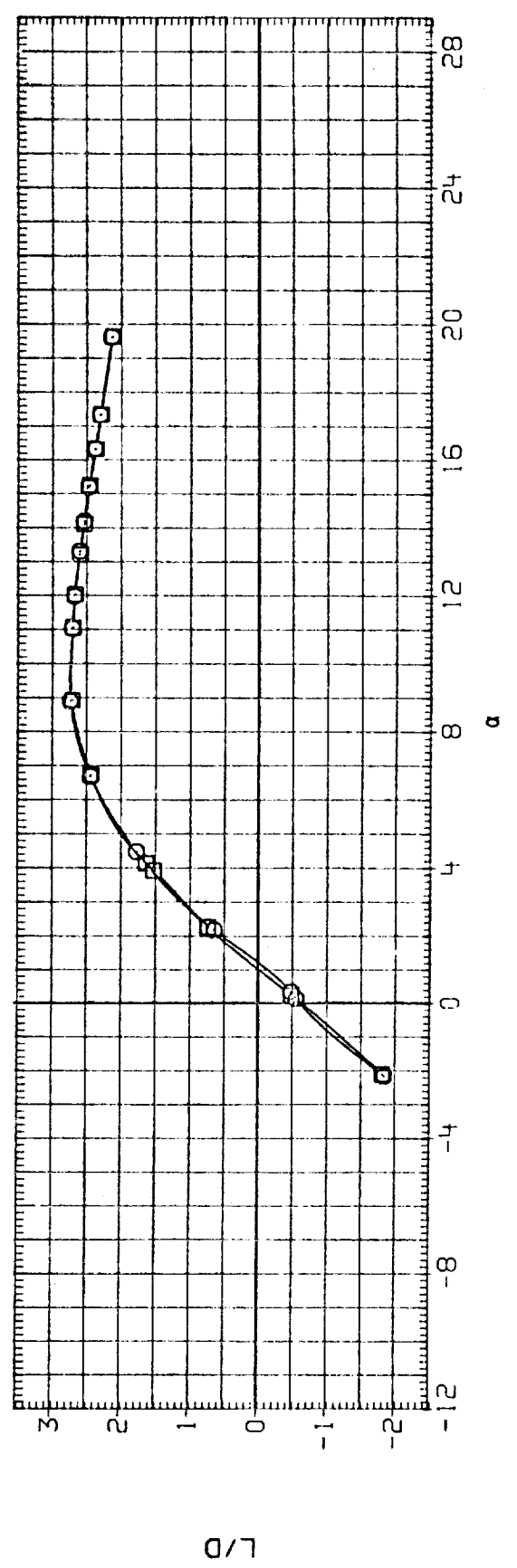
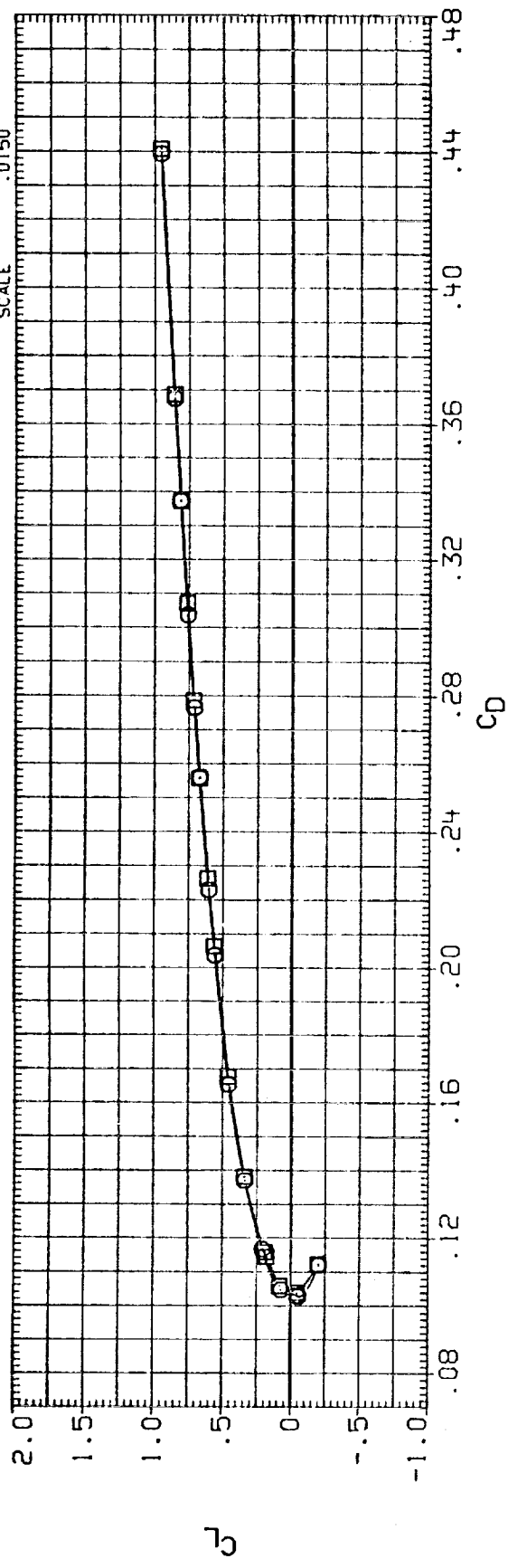


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .95

| | | | | | | |
|-----------------|--|------|-------|--------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (RUK029) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| | | | | | | BREF 936.6800 INCHES |
| | | | | | | XMRP 1076.7000 IN. X0 |
| | | | | | | YMRP .0000 IN. Y0 |
| | | | | | | ZMRP 375.0000 IN. Z0 |
| | | | | | | SCALE .0150 |

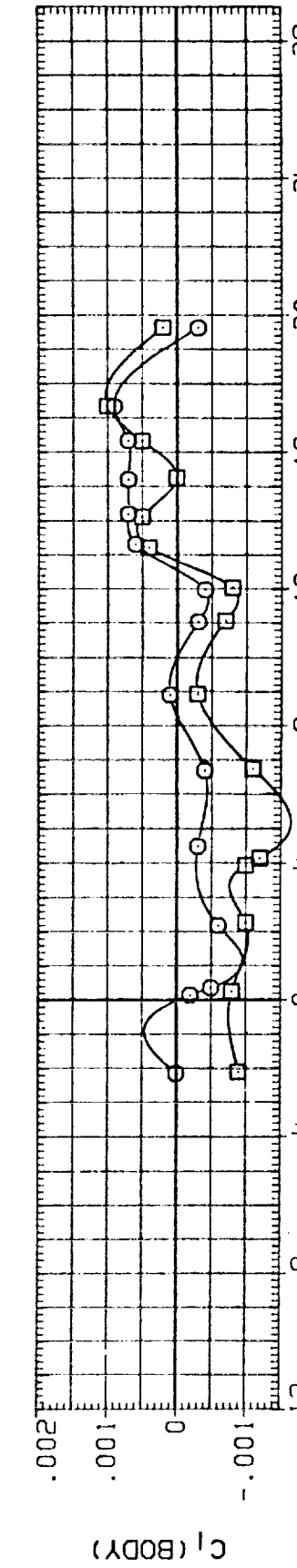
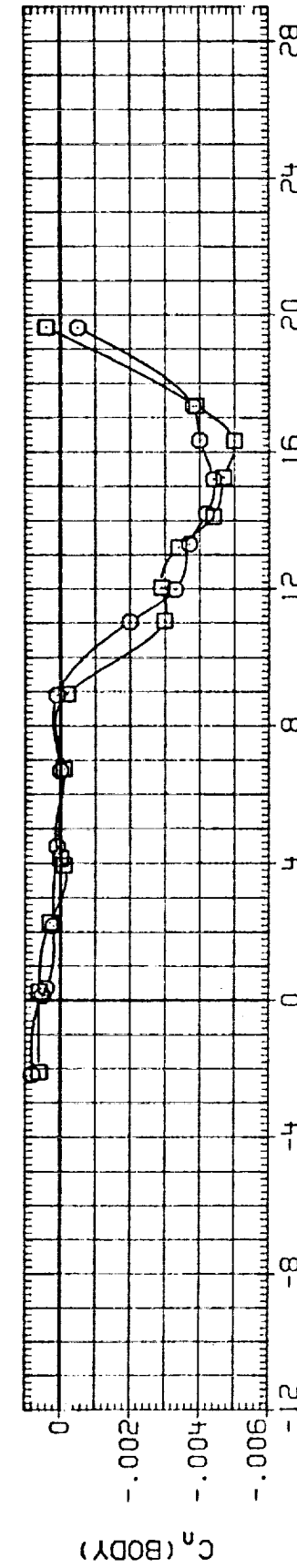
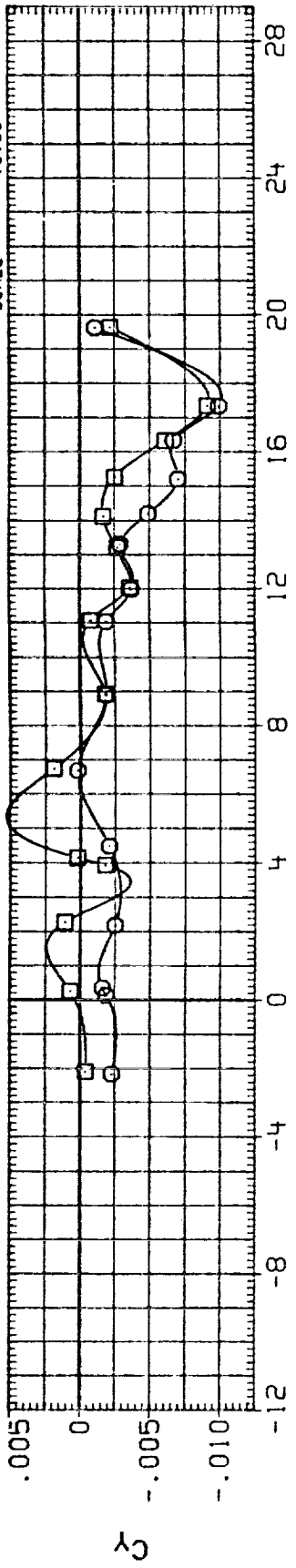


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .95

| | | | | | | | | |
|------------------------|--|-------------|-------------|---------------|---------------|------------------------------|-----------|---------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION | | |
| (CUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | .000 | 4.500 | .000 | .000 | SREF | 2690.0000 | SO. FT. |
| (CUK029) | LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON) | .000 | 4.500 | .000 | .000 | LREF | 474.8000 | INCHES |
| | | | | | | BREF | 936.6800 | INCHES |
| | | | | | | XMRP | 1076.7000 | IN. XO |
| | | | | | | YMRP | .0000 | IN. YO |
| | | | | | | ZMRP | 375.0000 | IN. ZO |
| | | | | | | SCALE | .0150 | |

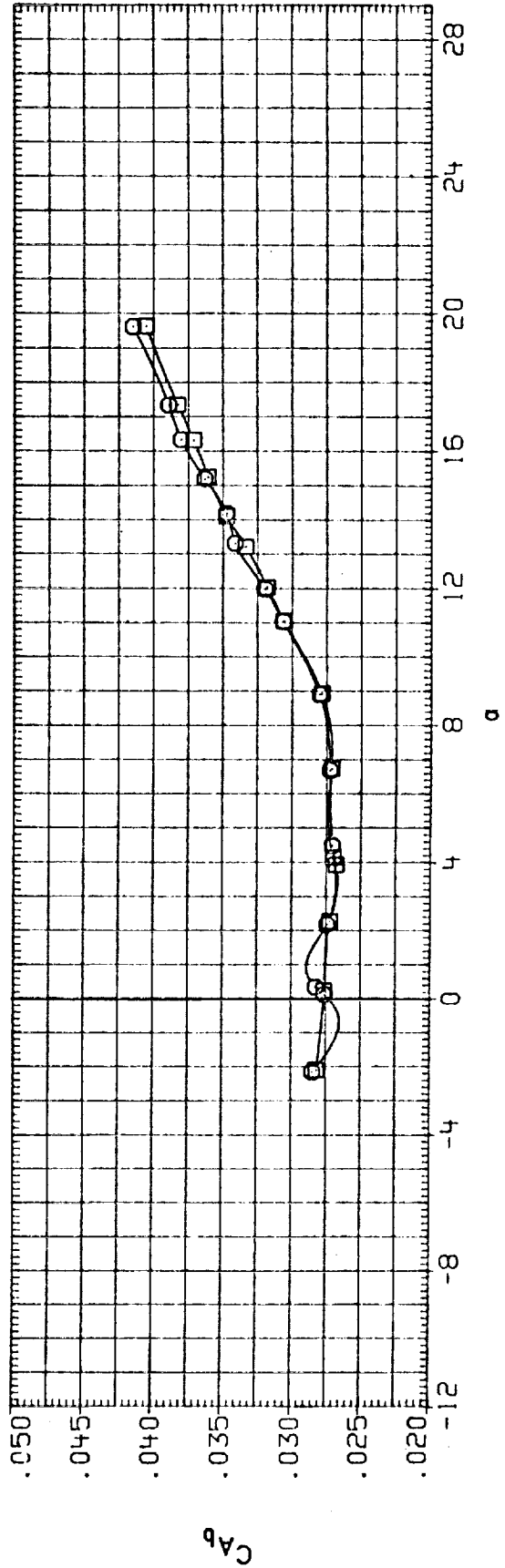
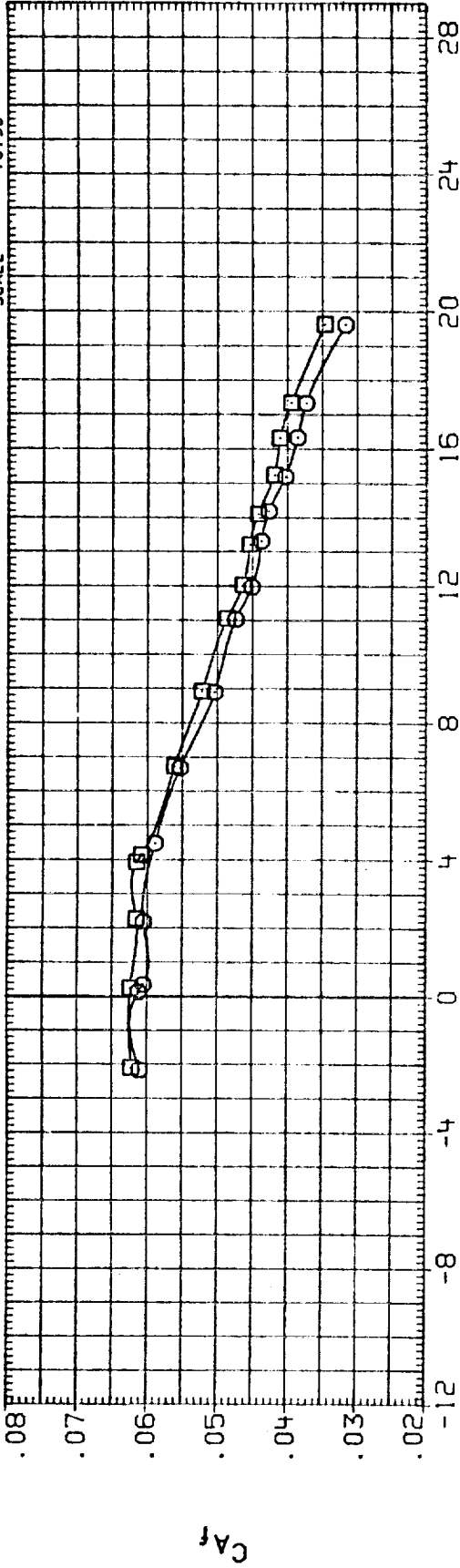


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .95

DATA SET SYMBOL
(CUK028)
(CUK029)

CONFIGURATION DESCRIPTION
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA
.000
.000

RN/L
4.500
4.500

ELEVON
.000
.000

REFERENCE INFORMATION
SREF 2690.0000 SO.FT.
LREF 474.6000 INCHES
BREF 936.6800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

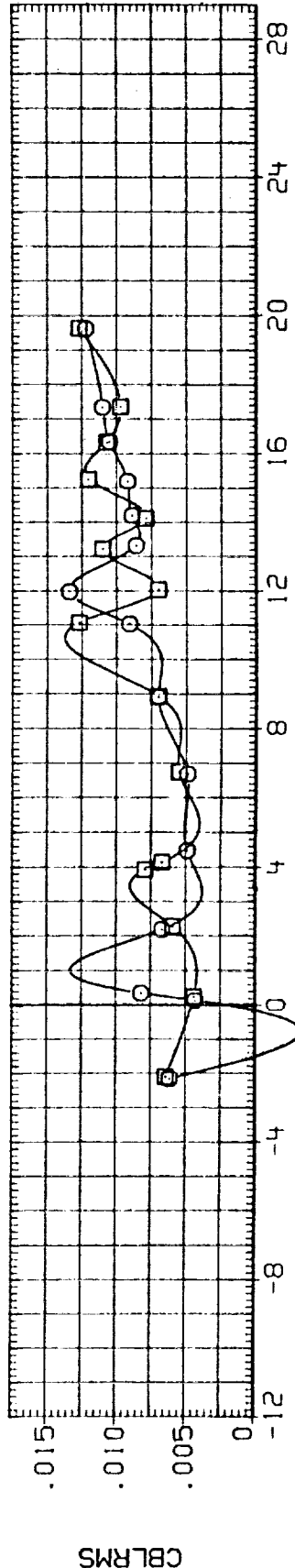
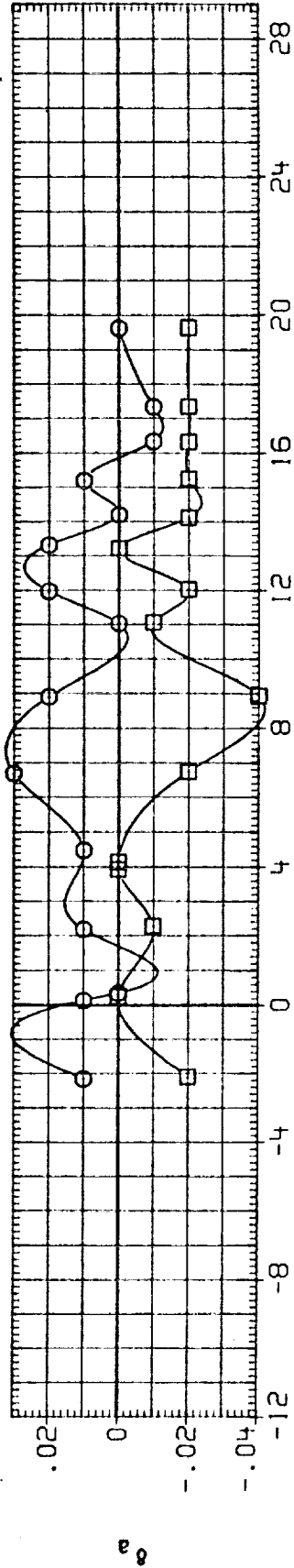
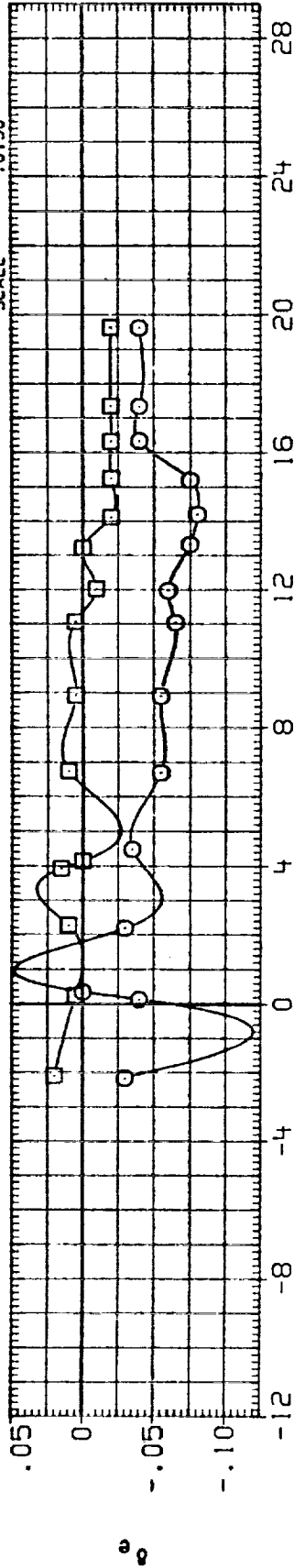


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK029) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK028) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK037) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK036) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000

RN/L 4.500

ELEVON .000

AIRLON .000

SO. FT. 2690.0000

INCHES 474.8000

IN. X0 936.6800

IN. Y0 1076.7000

IN. Z0 .0000

ZMRP 375.0000

SCALE .0150

REFERENCE INFORMATION

SREF 2690.0000

LREF 474.8000

BREF 936.6800

XMRP 1076.7000

YMRP .0000

ZMRP 375.0000

SCALE .0150

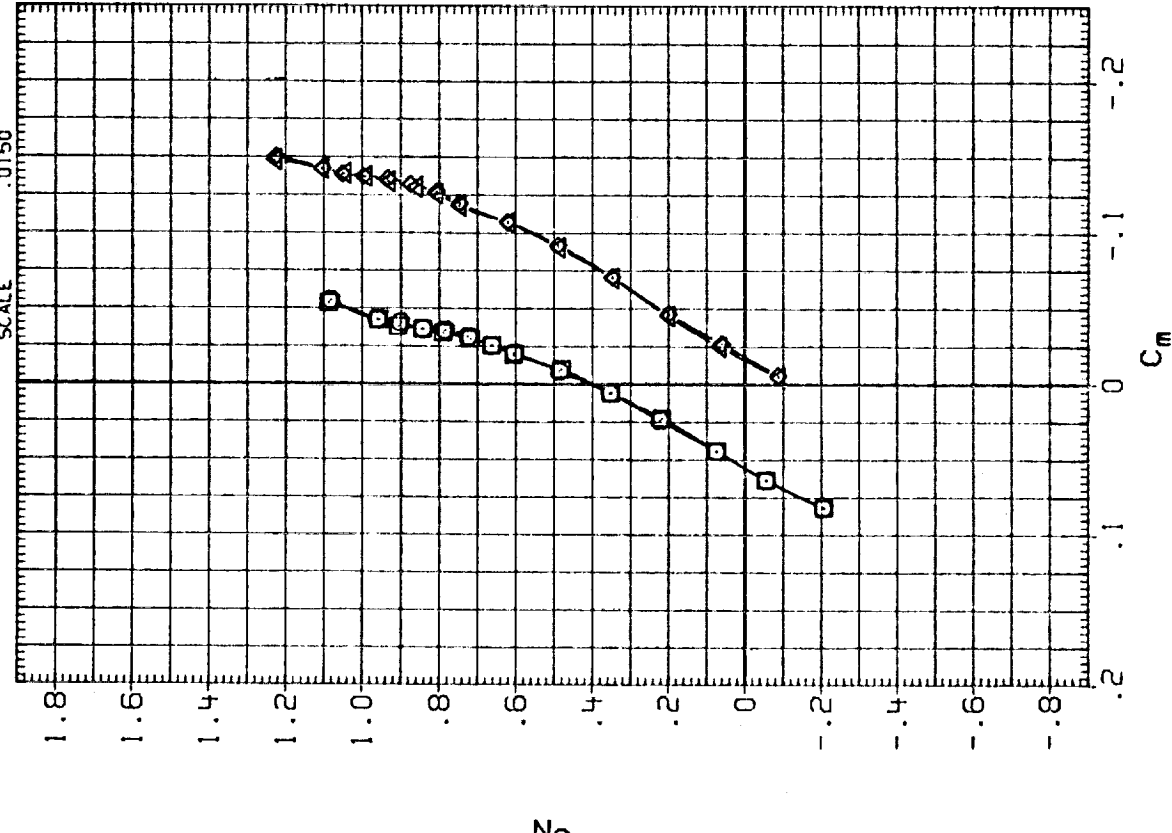
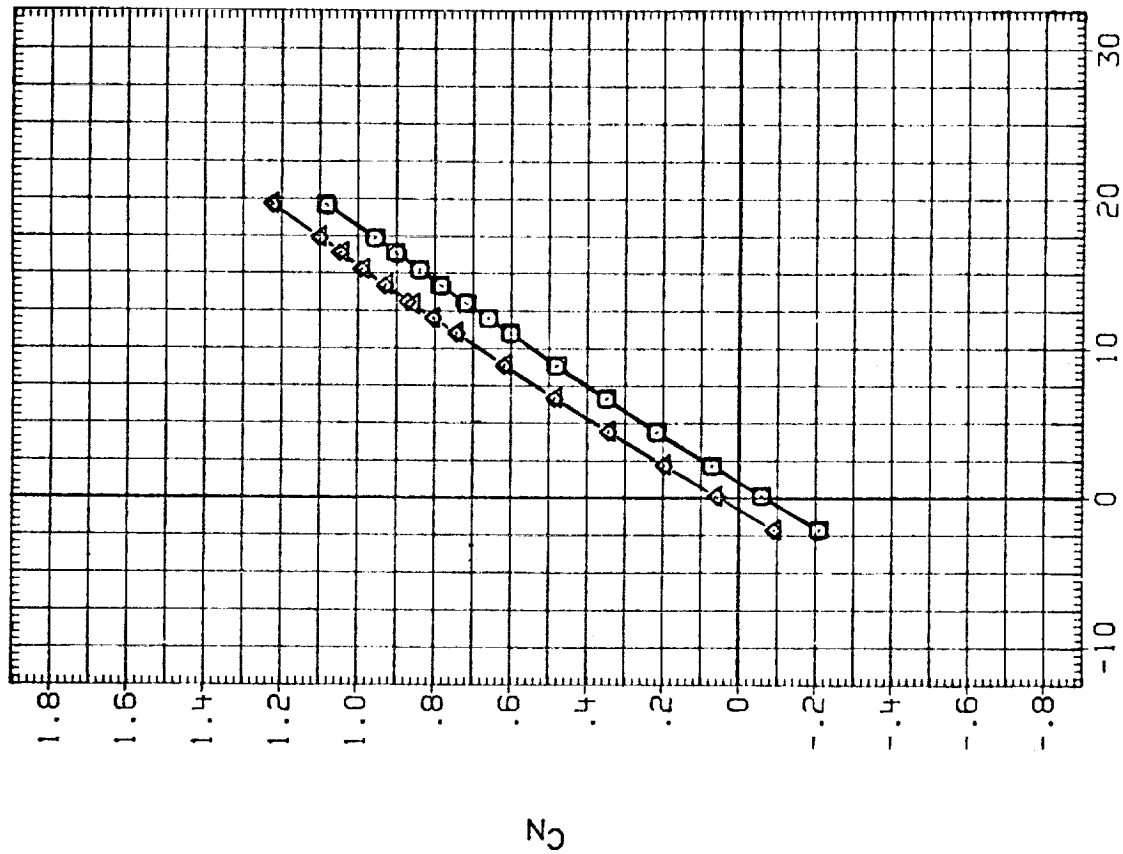


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .98

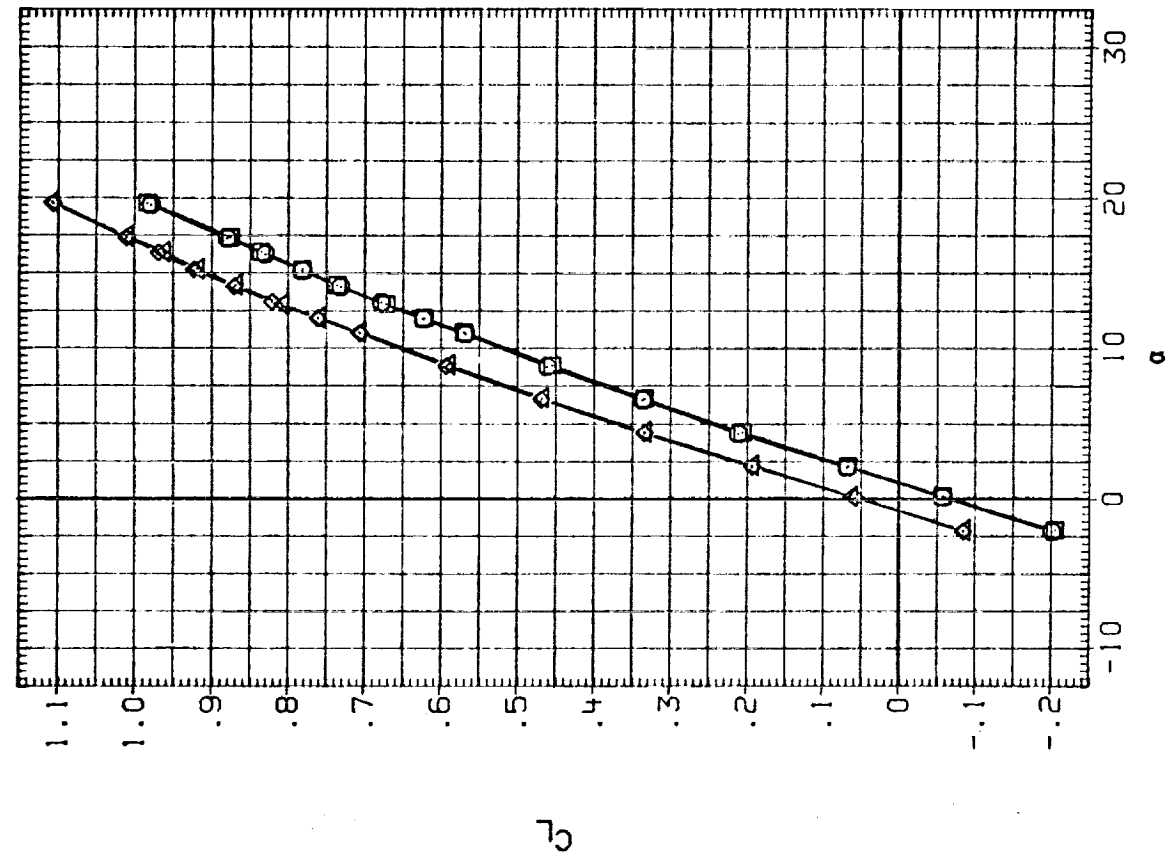
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK029) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK037) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)



BETA .000

RN/L 4.500

ELEVON .000

AILRON .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMPP 1076.7000 IN. XO

YMPP .0000 IN. YO

ZMPP 375.0000 IN. ZO

SCALE .0150

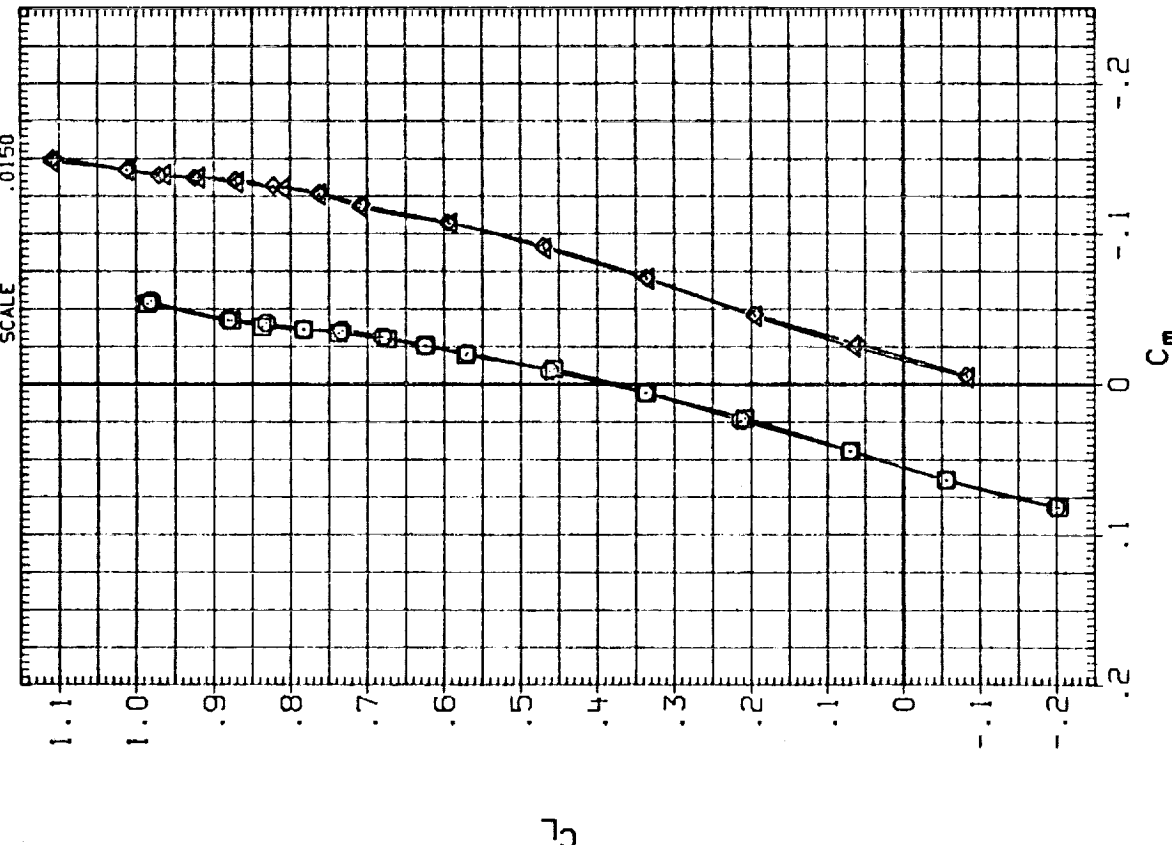


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .98

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
|----------|--------|--|------|-------|--------|--------|------------------------|
| (RUK029) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ. FT. |
| (RUK028) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK037) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK036) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | X'YRP 1076.7000 IN. XO |
| | | | | | | | Y'ZRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

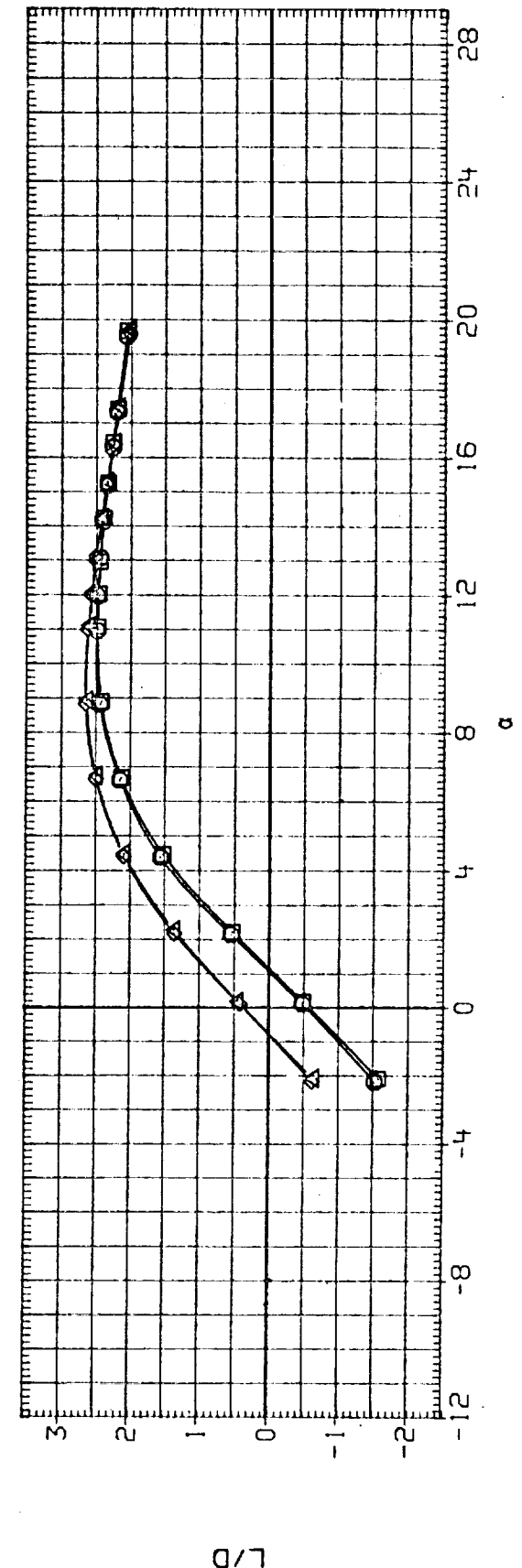
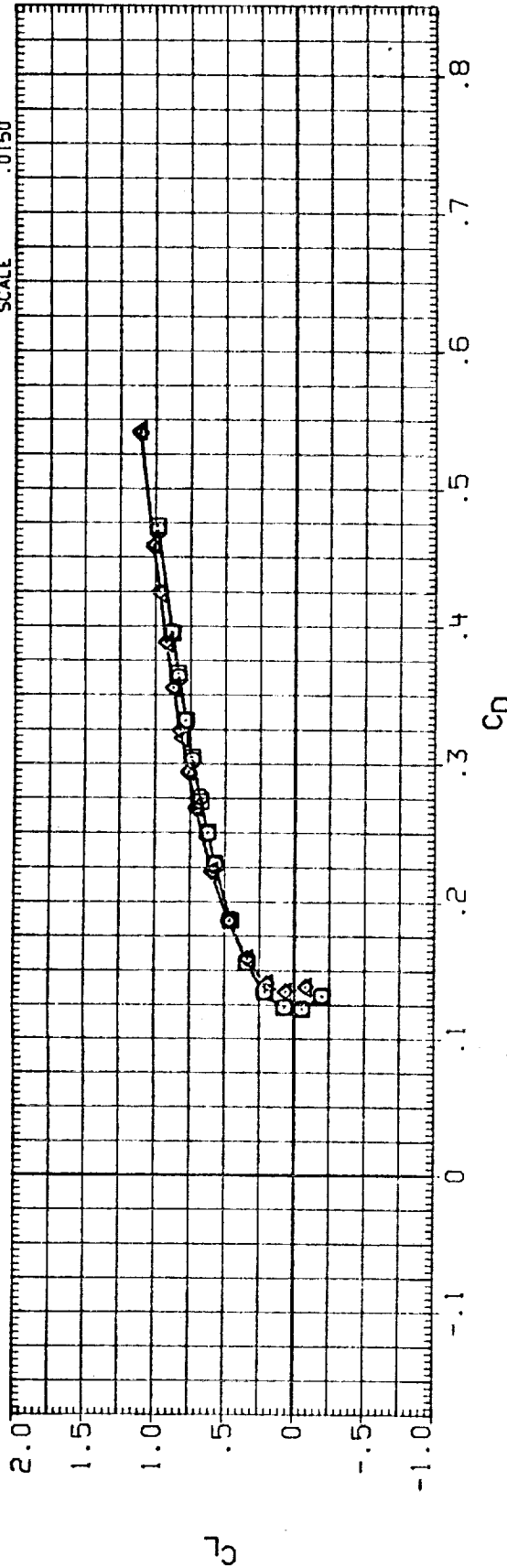


FIG. 43 REPEATABILITY IN PITCH

| | | | | | | |
|------------------------|--|-------------|-------------|---------------|---------------|------------------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AIRLON | REFERENCE INFORMATION |
| (RUK029) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (RUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (RUK037) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (RUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| | | | | | | ZMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

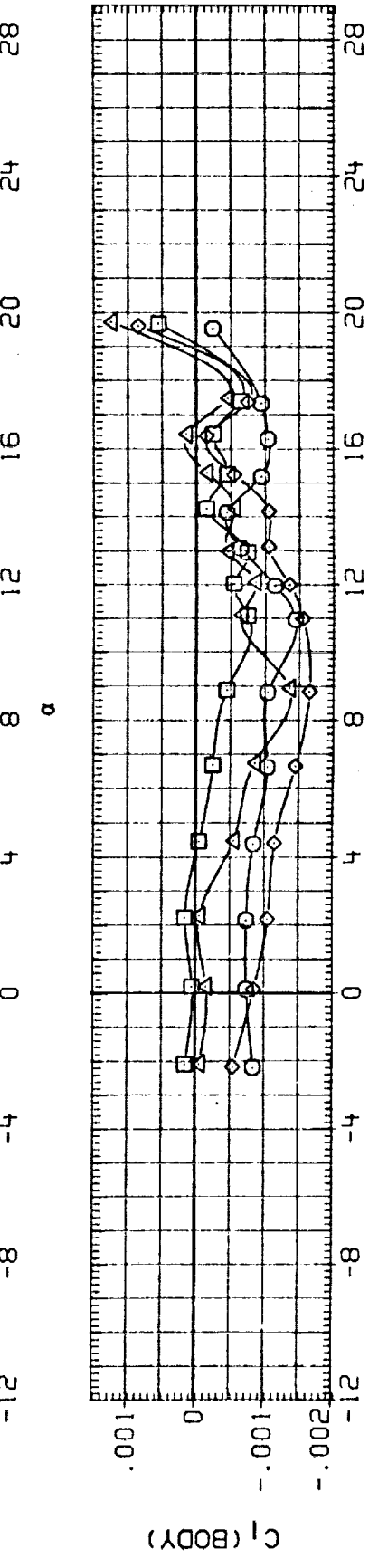
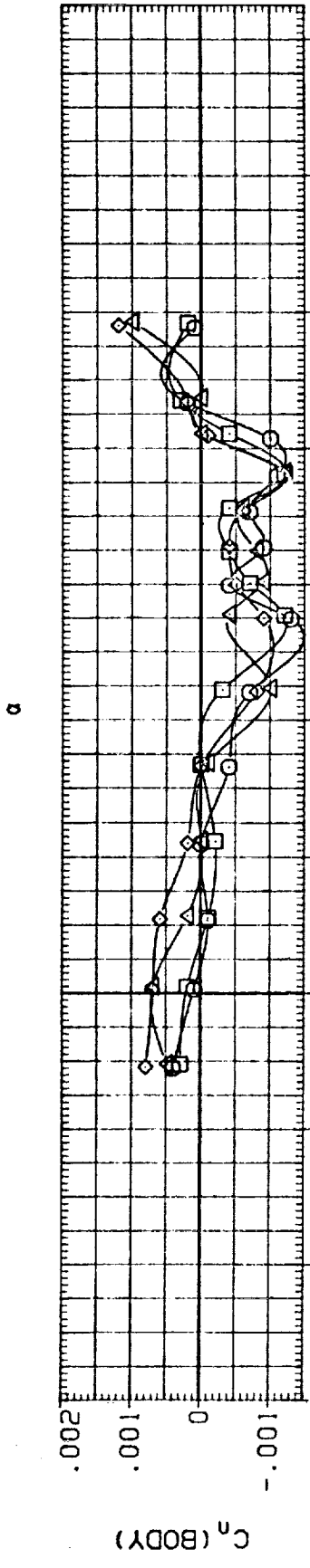
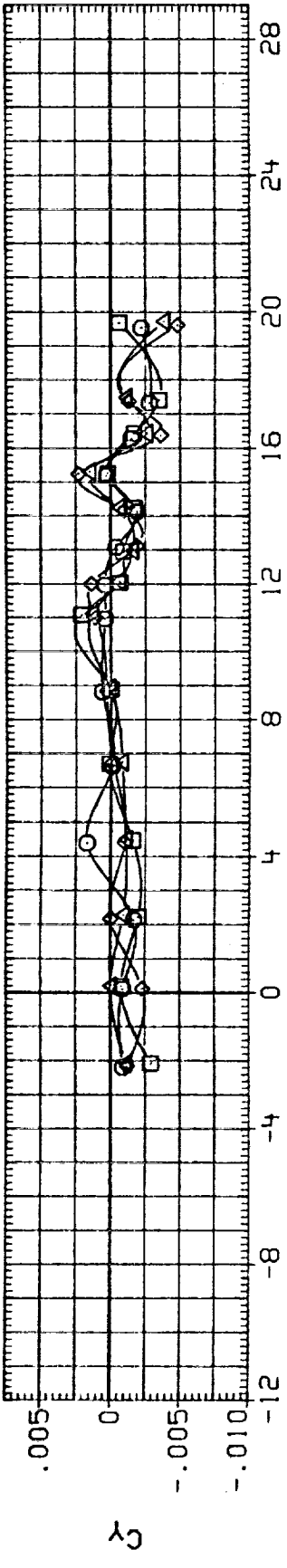


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .98

| DATA SET | SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|----------|--------|--|------|-------|--------|--------|-----------------------|
| (CUK028) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SO.FT. |
| (CUK029) | □ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK036) | ◇ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | BREF 936.6800 INCHES |
| (CUK037) | △ | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| | | | | | | | YMRP .0000 IN. YO |
| | | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | | SCALE .0150 |

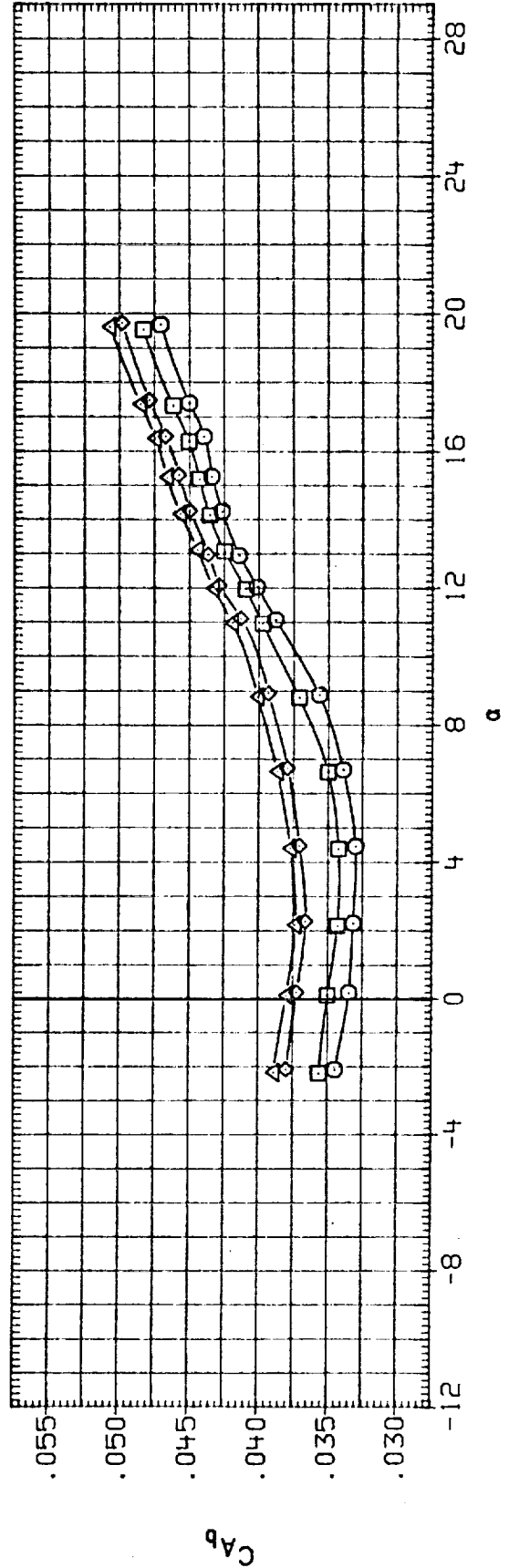
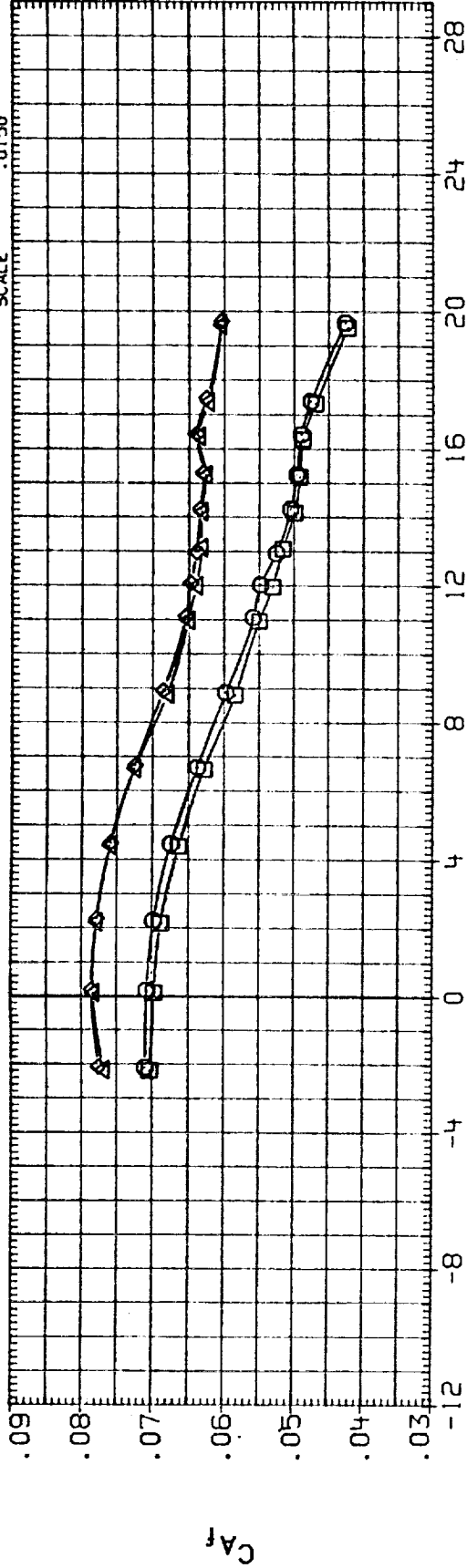


FIG. 43 REPEATABILITY IN PITCH

| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | BETA | RN/L | ELEVON | AILRON | REFERENCE INFORMATION |
|-----------------|--|------|-------|--------|--------|-----------------------|
| (CUK028) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | SREF 2690.0000 SQ.FT. |
| (CUK029) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | .000 | .000 | LREF 474.8000 INCHES |
| (CUK036) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | EREF 936.6800 INCHES |
| (CUK037) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | .000 | 4.500 | 10.000 | .000 | XMRP 1076.7000 IN. XO |
| | | | | | | YMRP .0000 IN. YO |
| | | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | | SCALE .0150 |

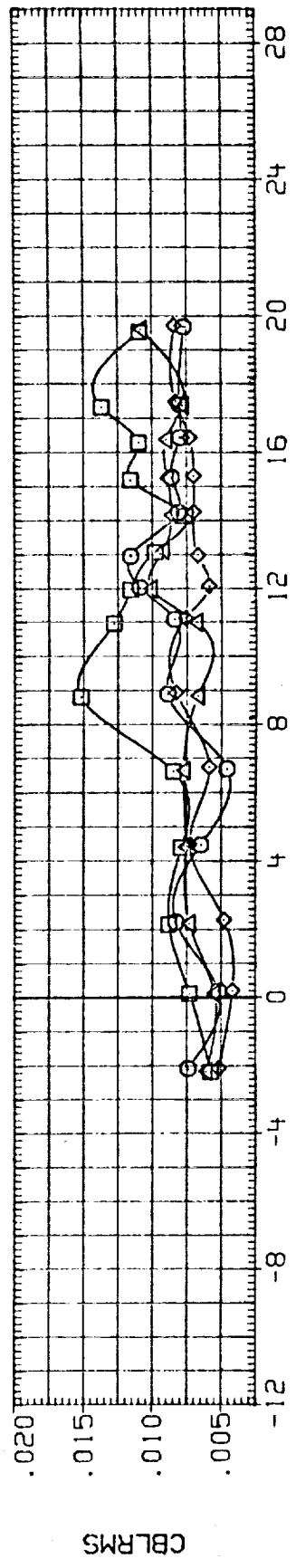
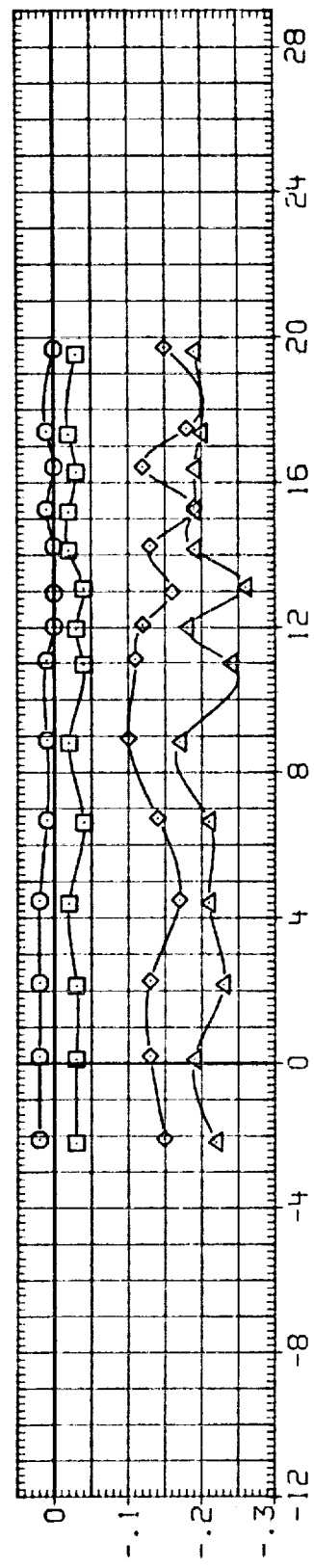
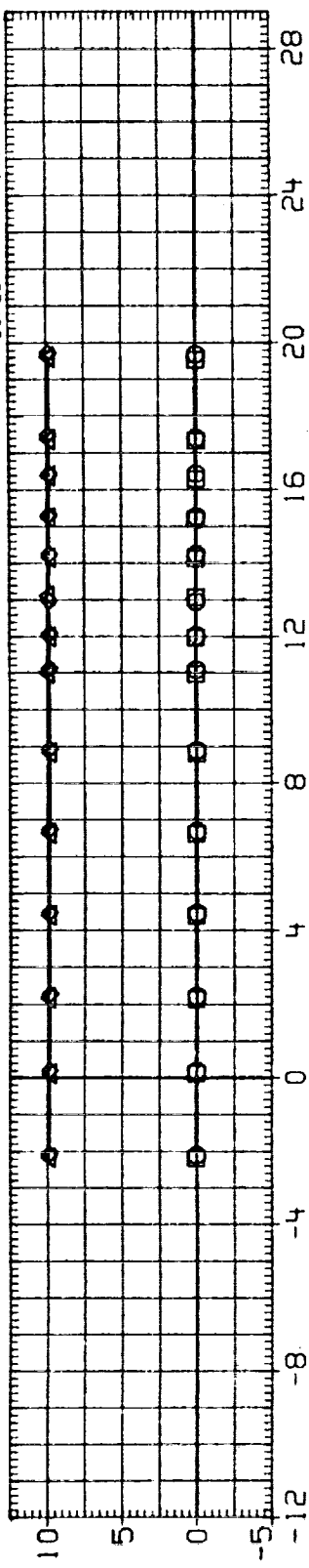


FIG. 43 REPEATABILITY IN PITCH

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AUK082) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (AUK079) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

SWEEP ALPHA RN/L
 2.000 15.000 4.500
 1.000 15.000 4.500

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

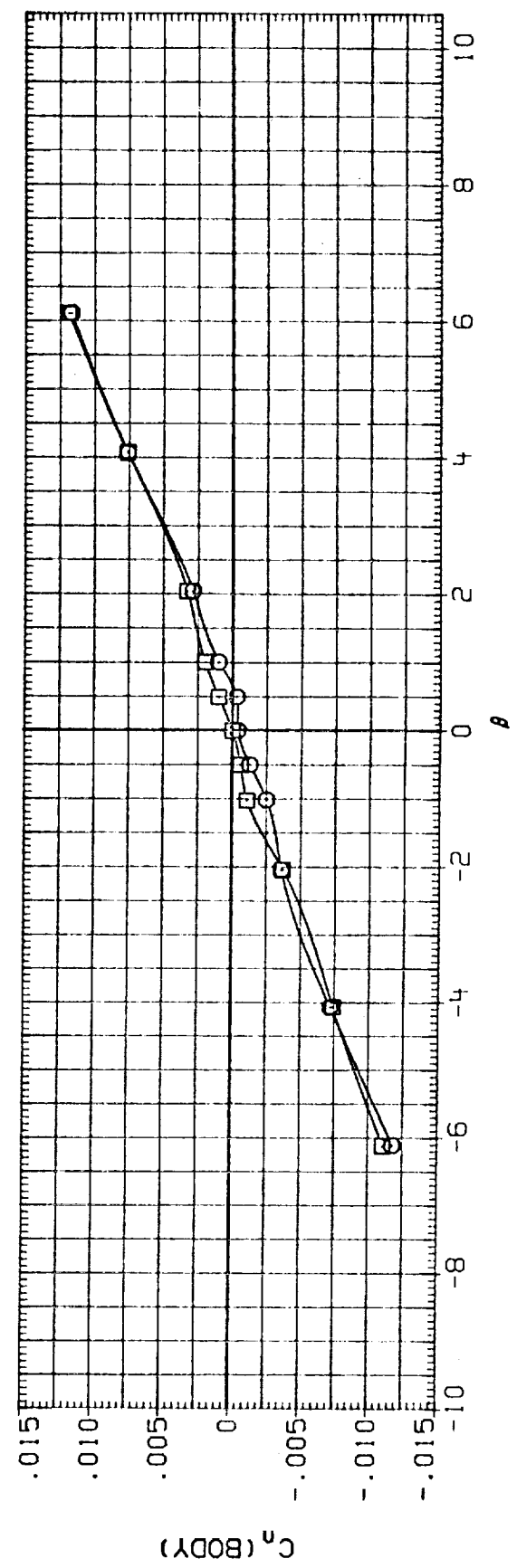
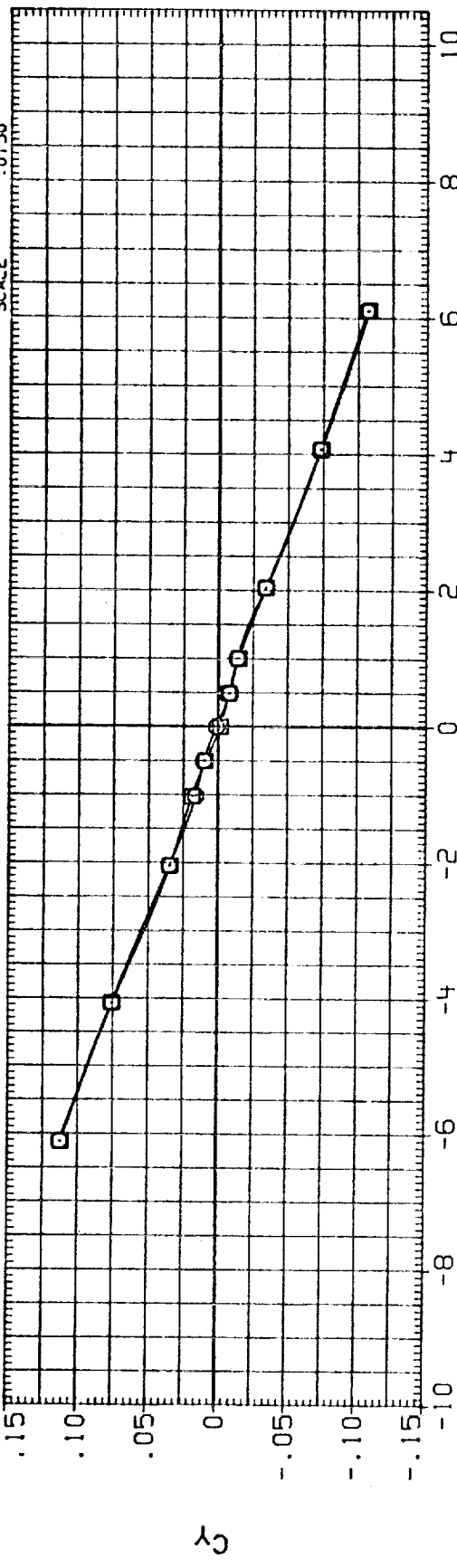


FIG. 44 EFFECT OF HYSTERESIS IN YAW

(A) MACH = .60

DATA SET SYMBOL
(AUK082) \square
(AUK078) \circ

CONFIGURATION DESCRIPTION
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

SWEEP ALPHA RN/L
2.000 15.000 4.500
1.000 15.000 4.500

REFERENCE INFORMATION
SREF 2690.0000 SO.FT.
LREF 474.8000 INCHES
BREF 936.6800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

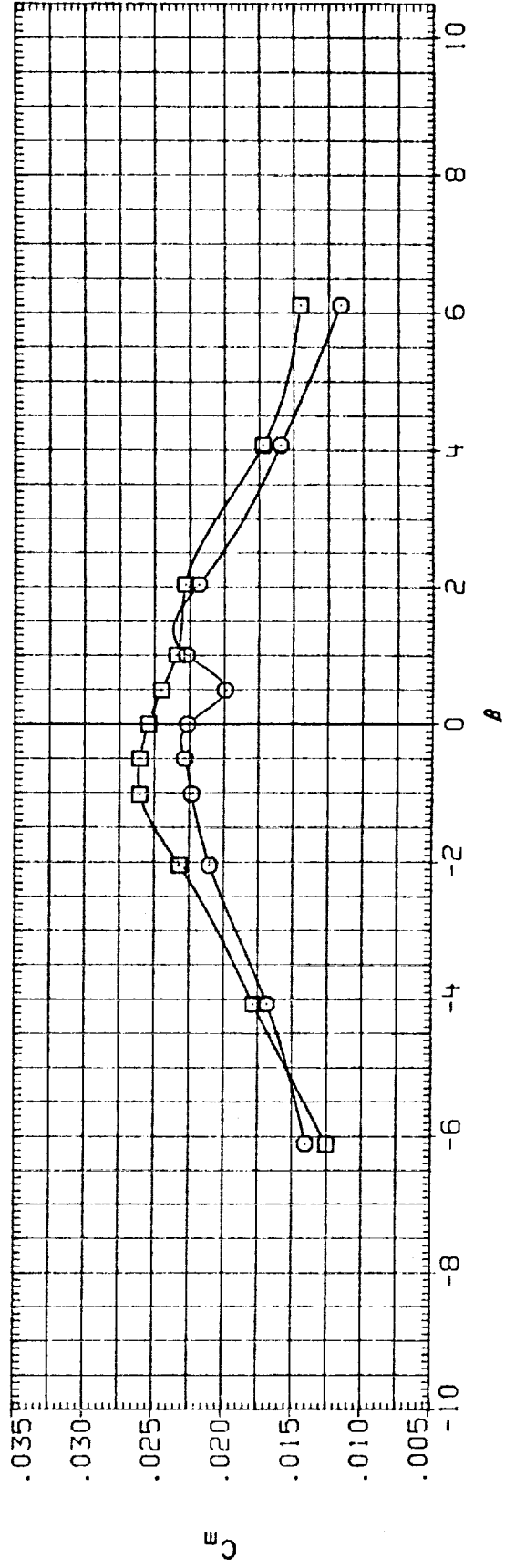
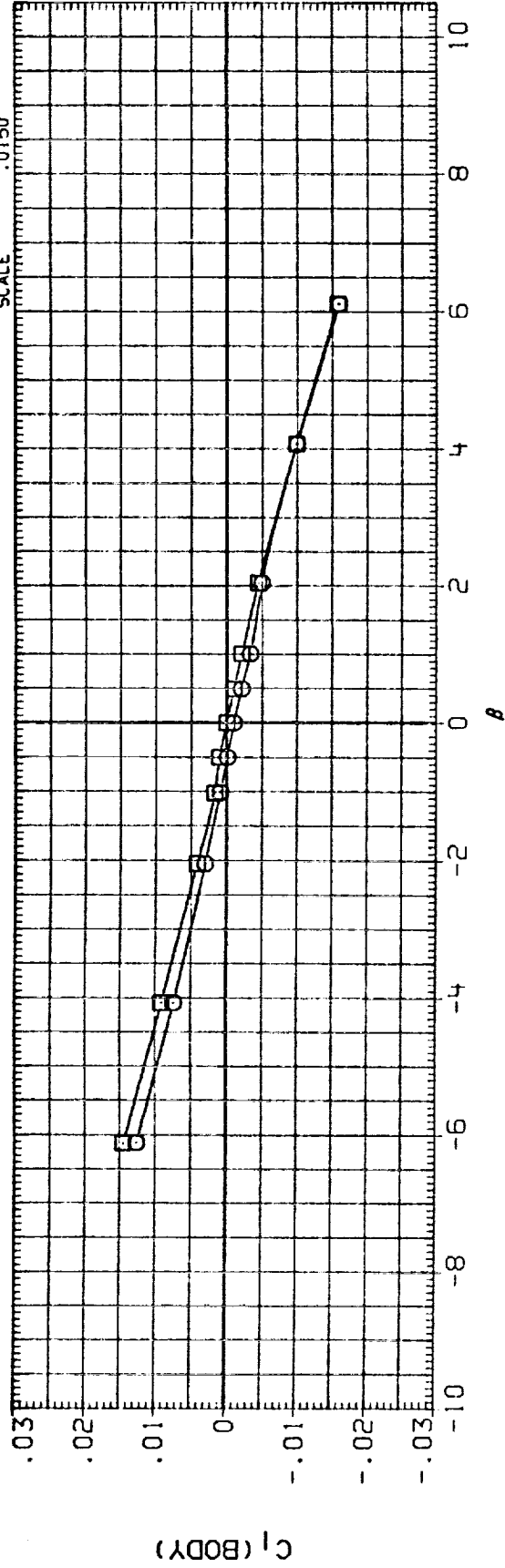


FIG. 44 EFFECT OF HYSTERESIS IN YAW

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AUK082) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (AUK079) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

SWEEP ALPHA RN/L
 2.000 15.000 4.500
 1.000 15.000 4.500

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

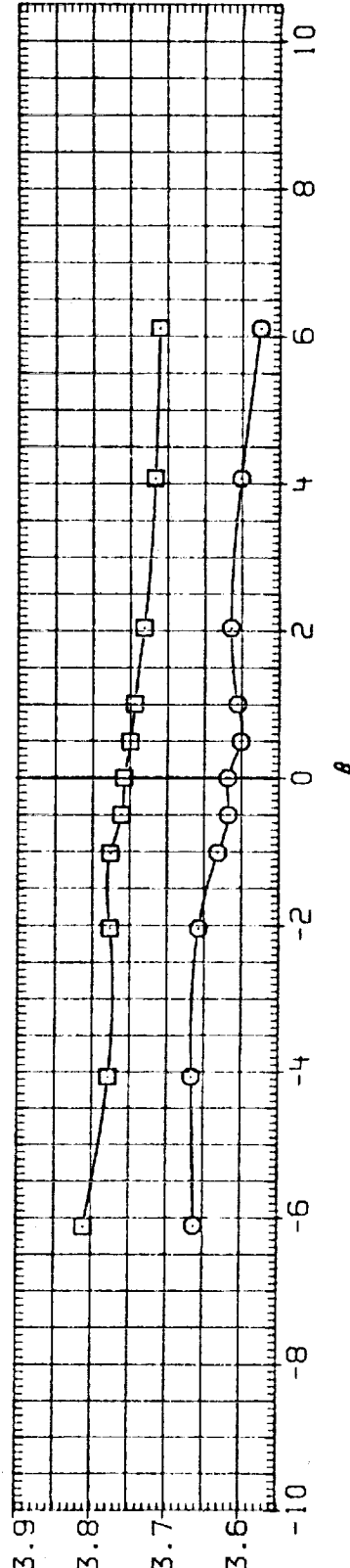
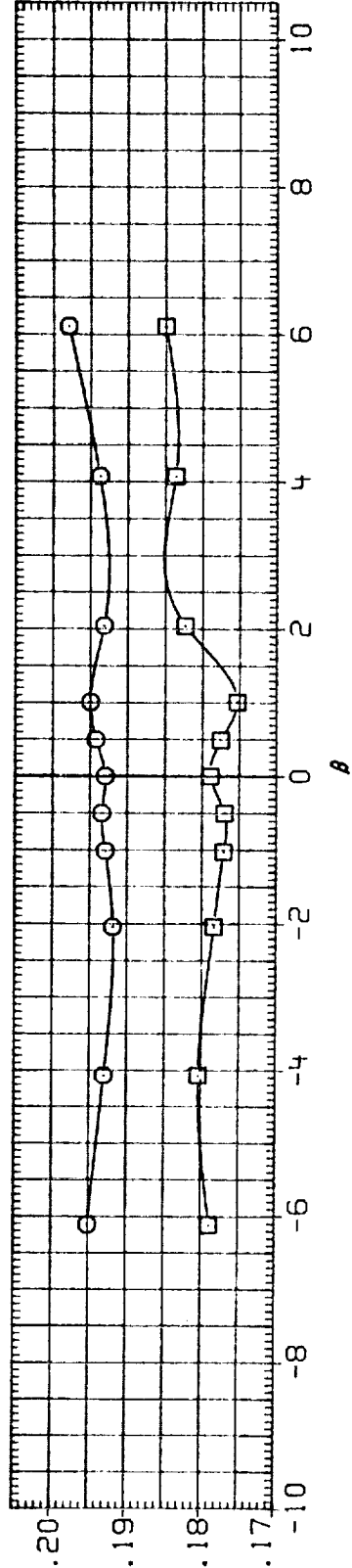
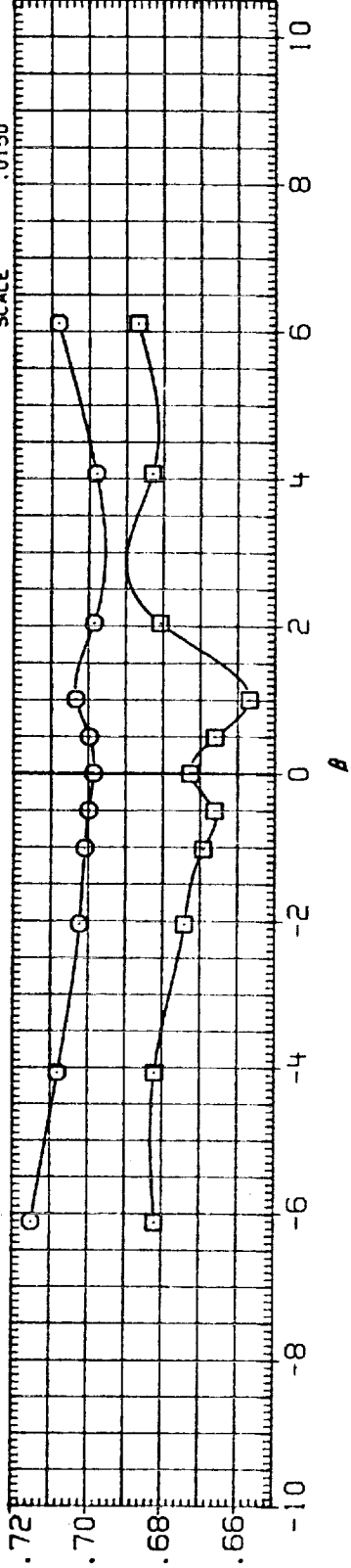


FIG. 44 EFFECT OF HYSTERESIS IN YAW

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION SHEEP ALPHA RN/L

(BUK082) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) 2.000 15.000 4.500

(BUK079) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) 1.000 15.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 50.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

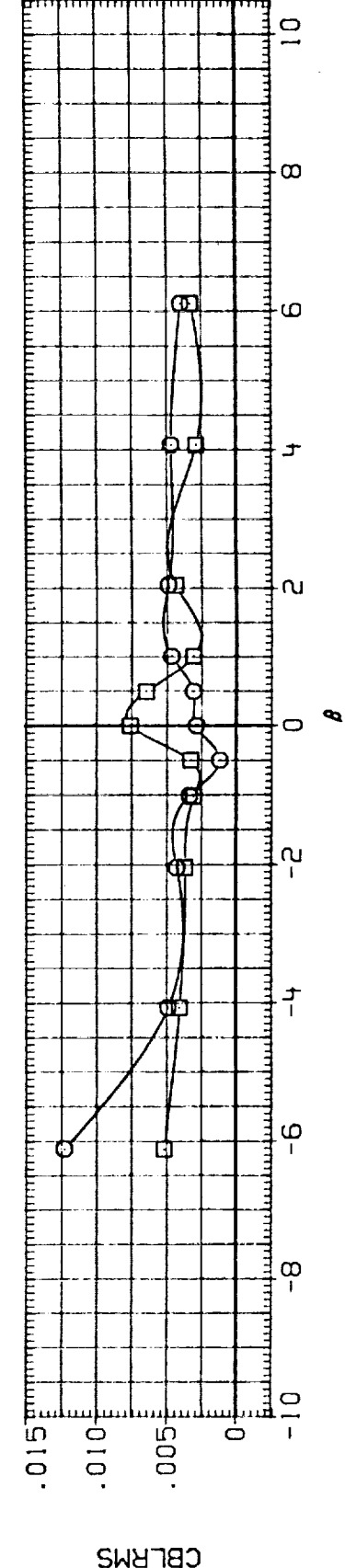
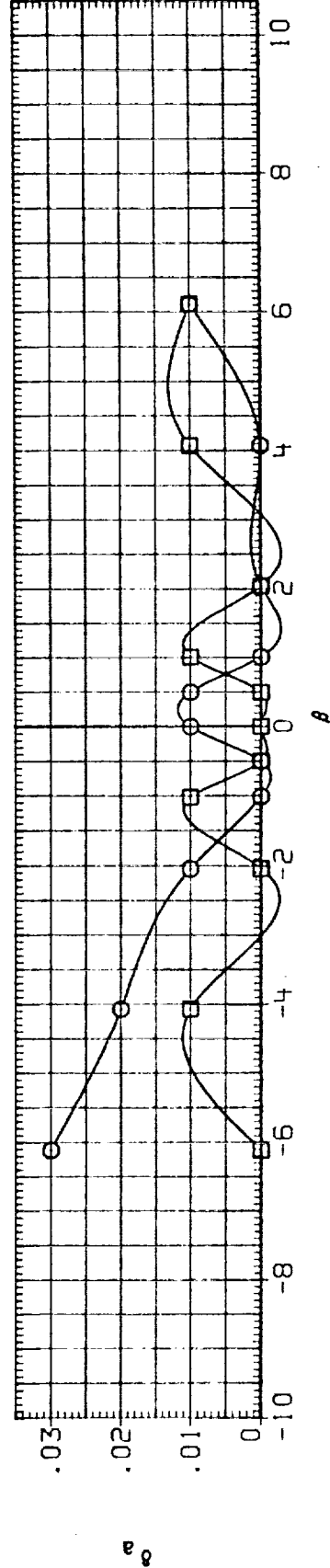
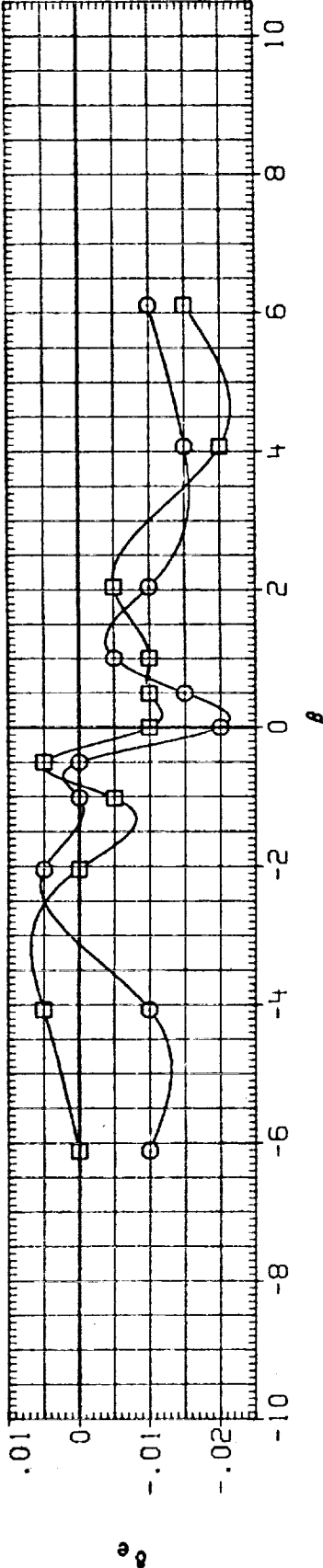


FIG. 44 EFFECT OF HYSTERESIS IN YAW

(A)MACH = .60

| | | | | | |
|-----------------|--|-------|--------|-------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | SWEEP | ALPHA | RN/L | REFERENCE INFORMATION |
| (AUK082) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 2.000 | 15.000 | 4.500 | SREF 2690.0000 SQ.FT. |
| (AUK079) | LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) | 1.000 | 15.000 | 4.500 | LREF 474.8000 INCHES |
| | | | | | BREF 936.6800 INCHES |
| | | | | | XMRP 1076.7000 IN. XO |
| | | | | | YMRP .0000 IN. YO |
| | | | | | ZMRP 375.0000 IN. ZO |
| | | | | | SCALE .0150 |

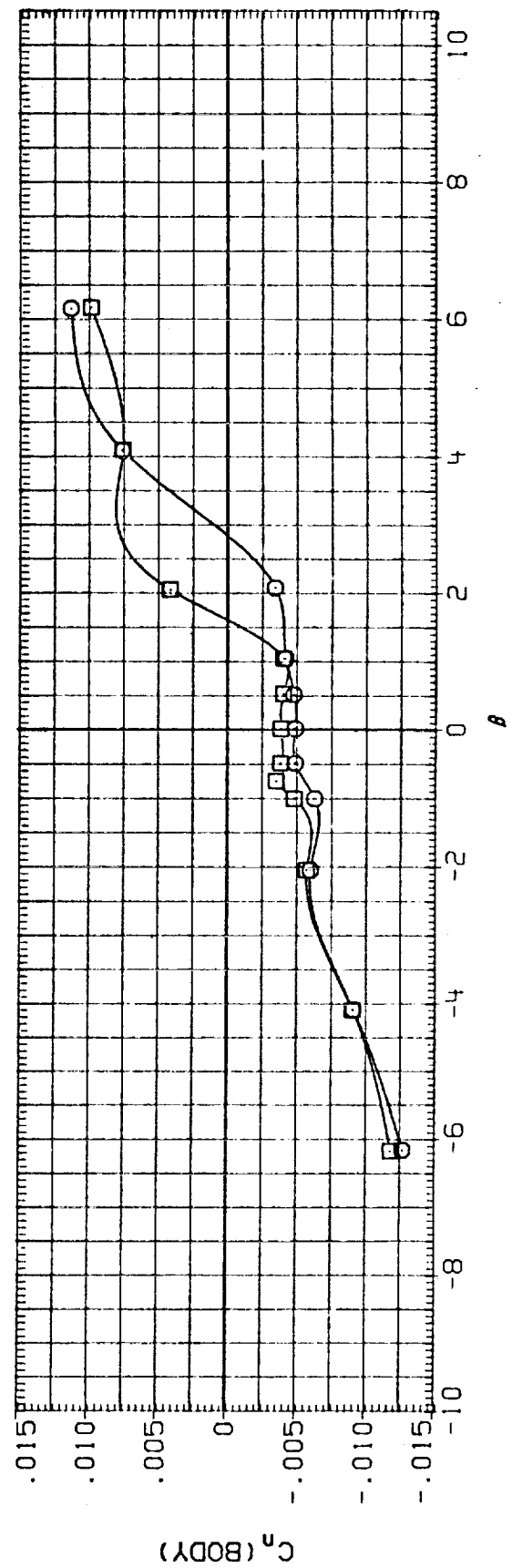
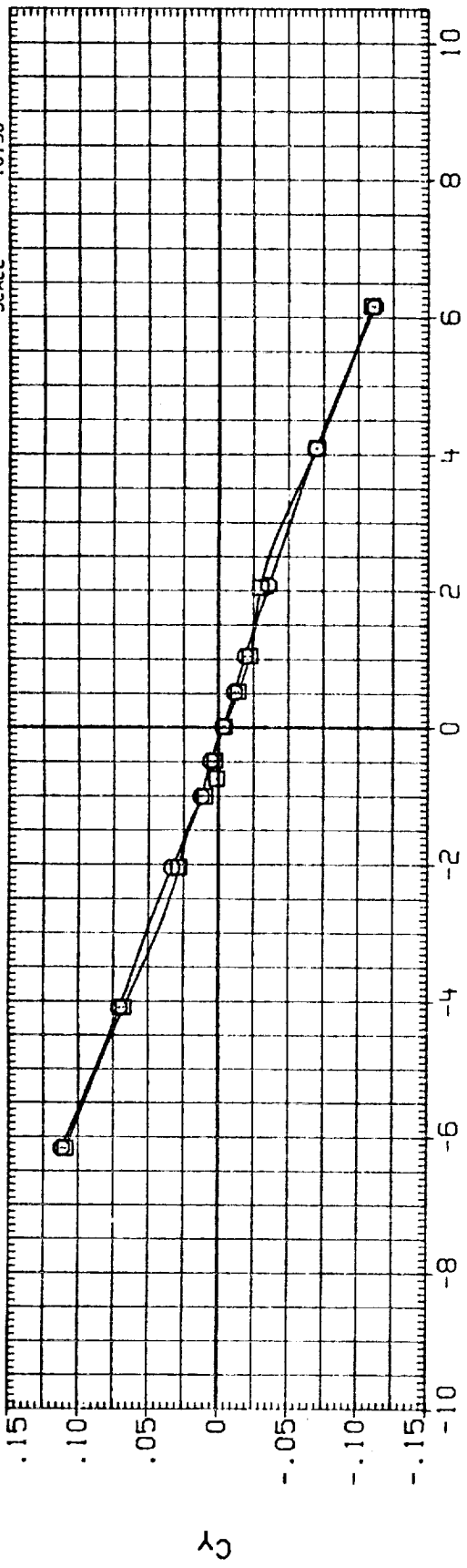


FIG. 44 EFFECT OF HYSTERESIS IN YAW

DATA SET SYMBOL
 (AUK082)
 (AUK079)

CONFIGURATION DESCRIPTION
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

SWEEP ALPHA RN/L
 2.000 15.000 4.500
 1.000 15.000 4.500

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

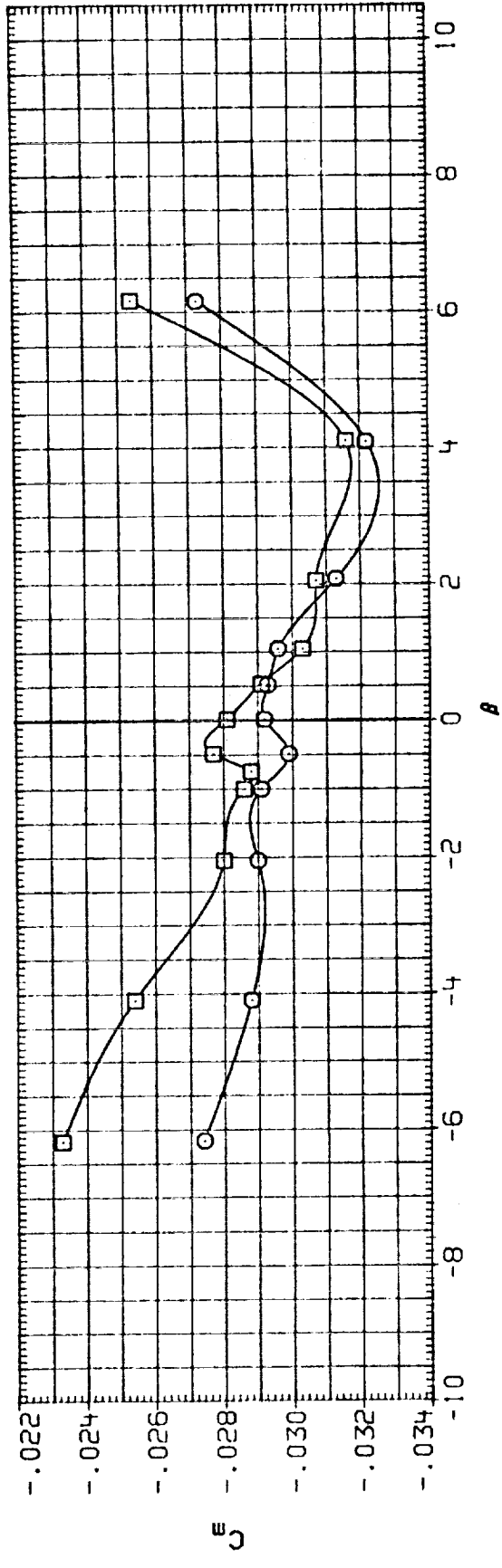
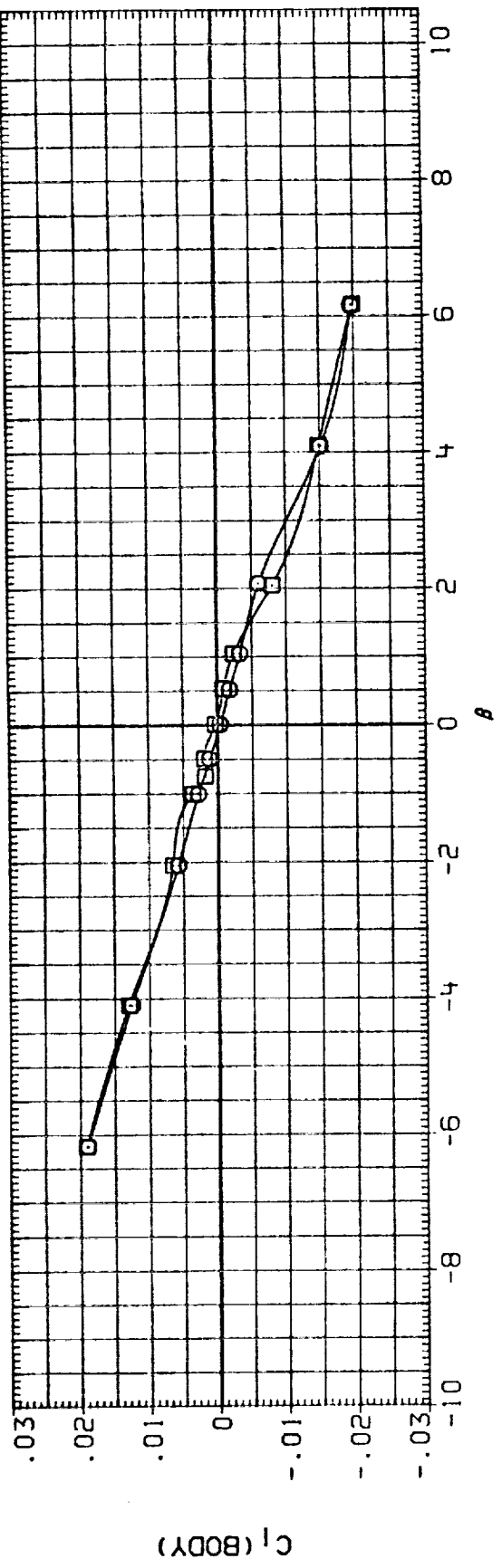


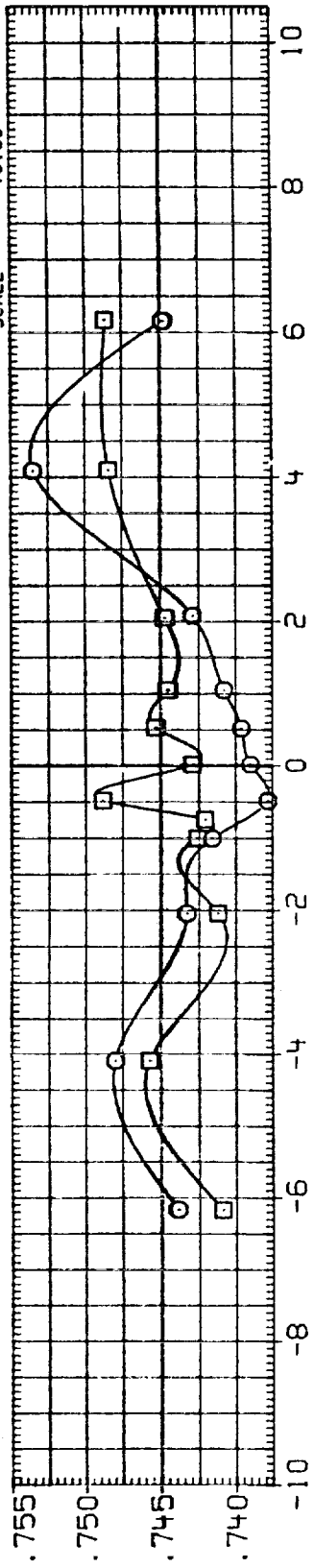
FIG. 44 EFFECT OF HYSTERESIS IN YAW

(A) MACH = .95

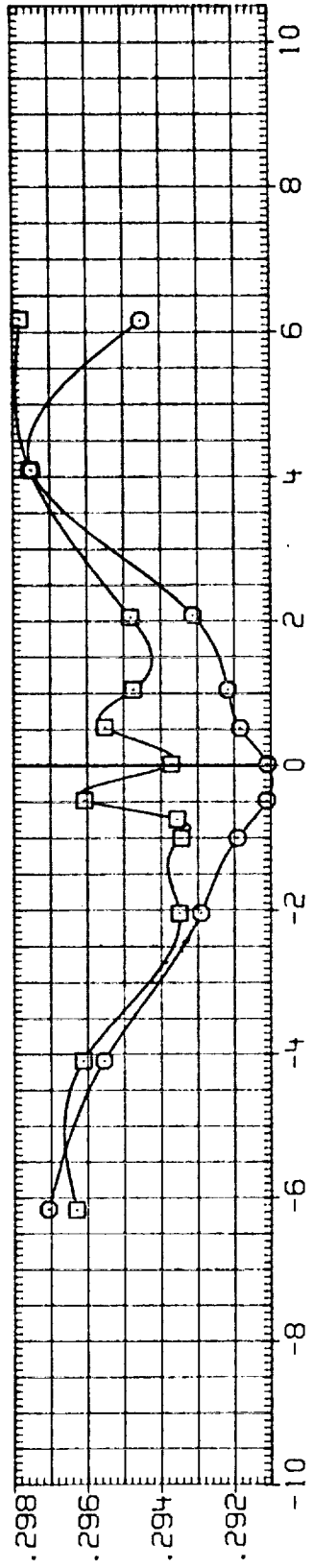
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AUK082) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 (AUK079) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

SNEEP ALPHA RN/L
 2.000 15.000 4.500
 1.000 15.000 4.500

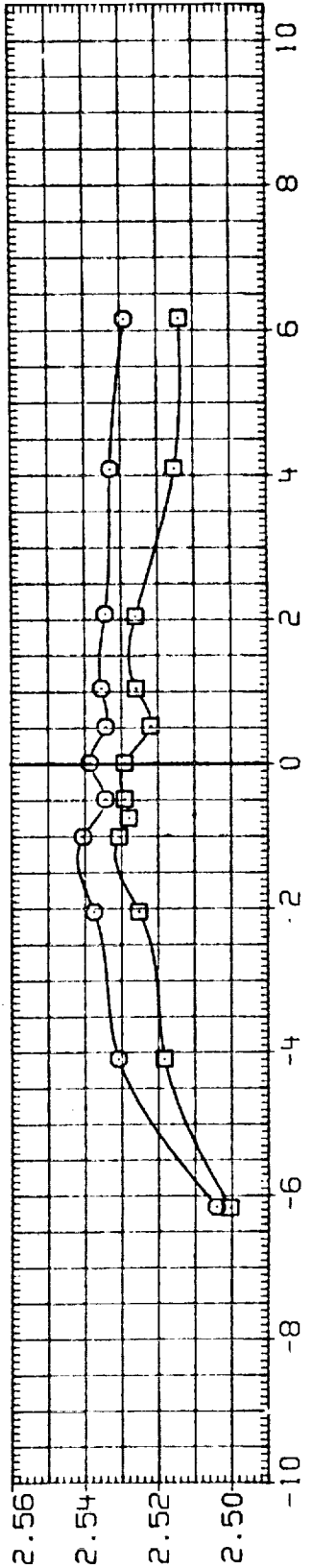
REFERENCE INFORMATION
 SREF 2690.0000 SO. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150



S



S



S

FIG. 44 EFFECT OF HYSTERESIS IN YAW

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (BUK082) O LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
 (BUK079) □ LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

SWEEP ALPHA RN/L
 2.000 15.000 4.500
 1.000 15.000 4.500

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.6000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

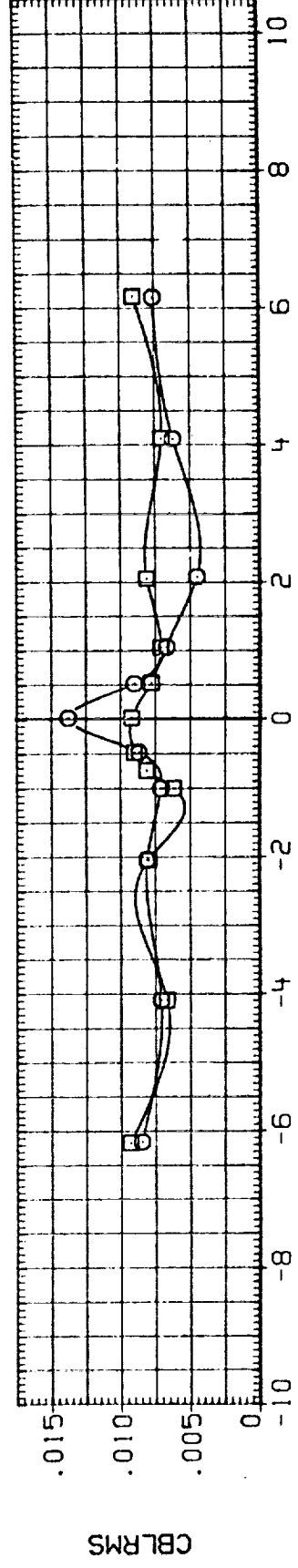
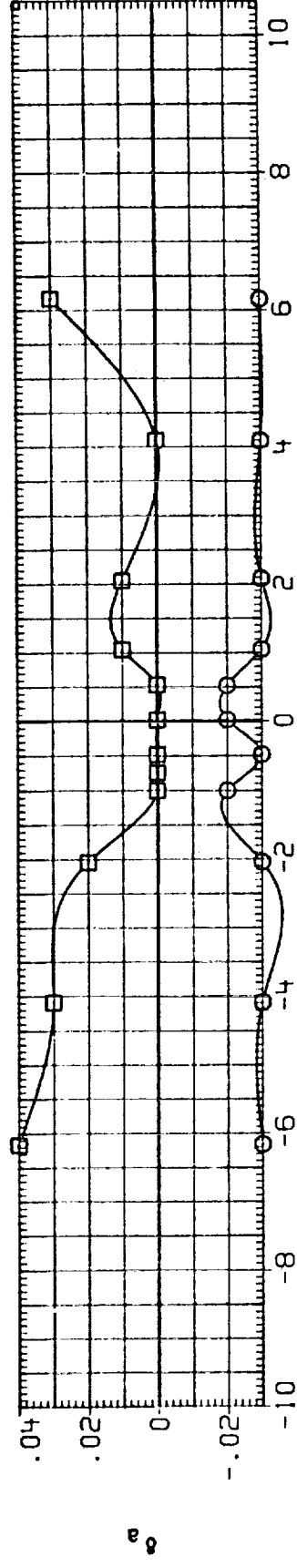
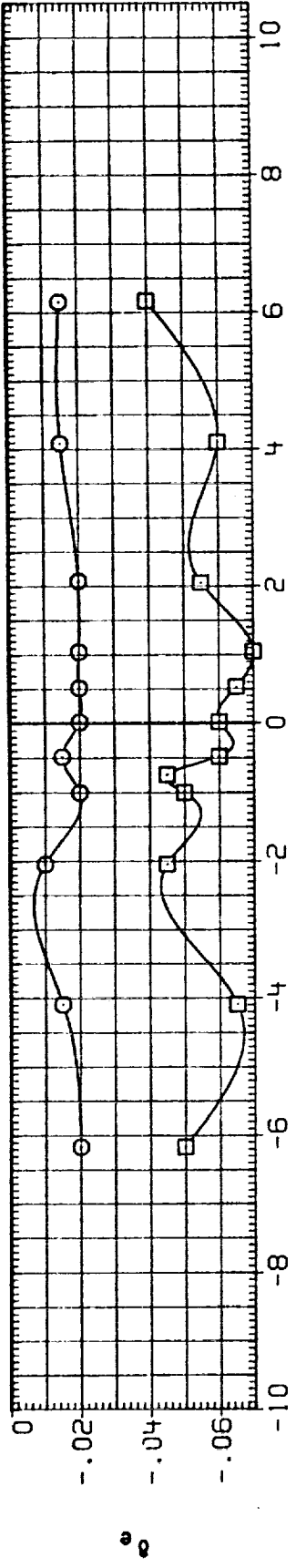


FIG. 44 EFFECT OF HYSTERESIS IN YAW

(A) MACH = .95

APPENDIX
TABULATED SOURCE DATA

Tabulated data listings are available
on request from Data Management Services.



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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 1

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK001) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 8/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|-------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .598 | -2.160 | .0000 | -.13910 | .06412 | .03420 | .00060 | .00090 | .00000 | -.13650 | .06932 | -1.96921 |
| .598 | .050 | .0000 | -.03860 | .06601 | .03240 | -.00010 | .00000 | -.00000 | -.00030 | .06598 | -.58657 |
| .598 | 2.200 | .0000 | .07170 | .06216 | .03140 | .00140 | .00020 | -.00050 | .06920 | .06487 | 1.06680 |
| .599 | 4.250 | .0000 | .16760 | .05558 | .03070 | -.00040 | .00000 | -.00020 | .16300 | .06785 | 2.40244 |
| .598 | 6.410 | .0000 | .27210 | .04520 | .02970 | -.00080 | .00000 | -.00030 | .26540 | .07530 | 3.52479 |
| .598 | 8.540 | .0000 | .38800 | .03063 | .02720 | .00230 | -.00030 | -.00080 | .37920 | .08791 | 4.31358 |
| .597 | 10.570 | .0000 | .48410 | .01854 | .02850 | .00020 | -.00110 | -.00130 | .47250 | .10703 | 4.41477 |
| .598 | 11.720 | .0000 | .55300 | .01072 | .02850 | .00160 | -.00070 | -.00120 | .53920 | .12283 | 4.38992 |
| .598 | 12.810 | .0000 | .61550 | .01371 | .02570 | -.00460 | .00230 | .00110 | .59710 | .14984 | 3.98501 |
| .597 | 13.760 | .0000 | .66860 | .01453 | .02310 | -.00330 | .00160 | .00070 | .64590 | .17314 | 3.73044 |
| .598 | 14.840 | .0000 | .72600 | .01361 | .02190 | .00070 | .00010 | .00010 | .69830 | .19910 | 3.50729 |
| .597 | 15.910 | .0000 | .78720 | .01693 | .01610 | -.00030 | -.00070 | -.00210 | .75240 | .23207 | 3.24207 |
| .597 | 16.900 | .0000 | .84010 | .01867 | .01200 | .00220 | -.00010 | -.00220 | .79830 | .26208 | 3.04599 |
| .597 | 19.080 | .0000 | .98600 | .01985 | -.00070 | -.00200 | .00000 | -.00230 | .92530 | .34107 | 2.71292 |
| GRADIENT | | .0000 | .04819 | -.00136 | -.00054 | -.00007 | -.00012 | -.00004 | .04707 | -.00027 | .69069 |

RUN NO. 7/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|-------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .798 | -2.320 | .0000 | -.17590 | .06786 | .04210 | -.00030 | .00120 | -.00010 | -.17300 | .07492 | -2.30898 |
| .798 | .040 | .0000 | -.05360 | .06914 | .03840 | -.00230 | .00070 | -.00010 | -.05350 | .06918 | -.77357 |
| .796 | 2.130 | .0000 | .06340 | .06620 | .03550 | .00020 | .00070 | -.00030 | .05090 | .06951 | .88891 |
| .794 | 4.220 | .0000 | .16910 | .06072 | .03120 | -.00090 | .00000 | -.00060 | .16410 | .07300 | 2.24738 |
| .796 | 6.390 | .0000 | .29540 | .05459 | .02460 | .00090 | .00000 | -.00020 | .28750 | .08713 | 3.20976 |
| .795 | 8.590 | .0000 | .40360 | .05147 | .02250 | -.00010 | .00030 | -.00080 | .39140 | .11118 | 3.56056 |
| .795 | 10.630 | .0000 | .50000 | .05122 | .02520 | .00050 | -.00070 | -.00150 | .48190 | .14257 | 3.38000 |
| .795 | 11.750 | .0000 | .55450 | .05285 | .02520 | .00020 | -.00030 | -.00120 | .53210 | .16466 | 3.23147 |
| .795 | 12.690 | .0000 | .60350 | .05479 | .02090 | -.00240 | -.00060 | -.00100 | .57670 | .18603 | 3.10010 |
| .795 | 13.920 | .0000 | .66320 | .05616 | .01420 | -.00010 | .00000 | -.00100 | .63250 | .21343 | 2.96347 |
| .796 | 14.870 | .0000 | .72610 | .05822 | .00860 | .00030 | .00030 | -.00150 | .68680 | .24261 | 2.83092 |
| .795 | 15.940 | .0000 | .78920 | .05820 | .00400 | .00000 | .00050 | -.00180 | .74280 | .27270 | 2.72587 |
| .796 | 16.980 | .0000 | .84230 | .05905 | .00170 | .00000 | .00060 | -.00040 | .78830 | .30247 | 2.60622 |
| .795 | 19.110 | .0000 | .94870 | .05852 | .00130 | .00140 | -.00050 | -.00350 | .87720 | .36588 | 2.39749 |
| GRADIENT | | .0000 | .05288 | -.00110 | -.00163 | .00003 | -.00016 | -.00000 | .05167 | -.00032 | .70374 |

LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON)

(RUK002) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 3.500 ELEVON = .000
 AILRON = .000 BETA = 2.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 9/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .598 | -2.350 | 2.03000 | -.15260 | .06416 | .03230 | -.04050 | .00410 | -.00090 | -.14990 | .07036 | -2.13037 |
| .598 | -.120 | 2.03000 | -.04470 | .06602 | .03270 | -.03930 | .00370 | -.00160 | -.04460 | .06611 | -.67460 |
| .597 | 2.020 | 2.03000 | .05390 | .06367 | .02930 | -.03640 | .00380 | -.00230 | .05170 | .06553 | .78995 |
| .597 | 4.090 | 2.03000 | .16130 | .05652 | .03020 | -.03710 | .00360 | -.00310 | .15690 | .06788 | 2.31141 |
| .597 | 6.240 | 2.03000 | .26340 | .04630 | .02660 | -.03630 | .00320 | -.00400 | .25680 | .07466 | 3.43980 |
| .598 | 8.390 | 2.03000 | .37570 | .03280 | .02800 | -.03260 | .00340 | -.00510 | .36690 | .08727 | 4.20431 |
| .597 | 10.470 | 2.03000 | .49110 | .01826 | .02850 | -.03230 | .00300 | -.00710 | .47960 | .10720 | 4.47392 |
| .597 | 11.580 | 2.03000 | .59570 | .01054 | .02750 | -.03370 | .00210 | -.00740 | .54220 | .12187 | 4.44884 |
| .597 | 12.650 | 2.03000 | .60800 | .01109 | .02430 | -.03960 | .00510 | -.00540 | .59090 | .14397 | 4.10364 |
| .598 | 13.640 | 2.03000 | .65840 | .01494 | .02000 | -.04030 | .00570 | -.00270 | .63630 | .16978 | 3.74773 |
| .598 | 14.690 | 2.03000 | .72560 | .01853 | .01640 | -.03750 | .00420 | -.00350 | .69720 | .20193 | 3.45271 |
| .598 | 15.770 | 2.03000 | .78050 | .01887 | .01170 | -.03650 | .00290 | -.00380 | .74610 | .23031 | 3.23957 |
| .598 | 16.770 | 2.03000 | .83590 | .01887 | .01510 | -.03320 | .00270 | -.00730 | .79490 | .25925 | 3.06515 |
| .598 | 18.910 | 2.03000 | .97260 | .01699 | -.00090 | -.03700 | .00390 | -.00760 | .91450 | .33128 | 2.76054 |
| .598 | GRADIENT | .00000 | .04846 | -.00116 | -.00045 | .00061 | -.00007 | -.00034 | .04736 | -.00039 | .68883 |

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TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 3

LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)

(RUK003) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 3.500 ELEVON = .000
 AILRON = .000 BETA = -2.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 10/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CO | L/D |
|------|----------|----------|---------|---------|---------|--------|---------|--------|---------|--------|----------|
| .598 | -1.940 | -2.03000 | -.13580 | .06377 | .03180 | .03320 | -.00340 | .00140 | -.13360 | .06833 | -1.95520 |
| .598 | .260 | -2.03000 | -.02260 | .06451 | .03250 | .03950 | -.00310 | .00150 | -.02290 | .06441 | -.35555 |
| .598 | 2.370 | -2.03000 | .07660 | .06239 | .02940 | .03730 | -.00370 | .00240 | .07400 | .06550 | 1.12970 |
| .598 | 4.450 | -2.04000 | .17800 | .05530 | .02910 | .03930 | -.00310 | .00290 | .17310 | .06894 | 2.51073 |
| .598 | 6.590 | -2.03000 | .28240 | .04403 | .02760 | .03770 | -.00320 | .00330 | .27550 | .07615 | 3.61794 |
| .597 | 8.740 | -2.03000 | .39280 | .03031 | .02700 | .03630 | -.00350 | .00400 | .38360 | .08964 | 4.27913 |
| .598 | 10.790 | -2.03000 | .50130 | .01611 | .02510 | .03640 | -.00420 | .00460 | .48940 | .10967 | 4.46234 |
| .597 | 11.930 | -2.04000 | .57890 | .00837 | .02720 | .04010 | -.00290 | .00450 | .56470 | .12786 | 4.41664 |
| .598 | 12.990 | -2.03000 | .62710 | .00873 | .02150 | .03490 | -.00270 | .00480 | .60910 | .14935 | 4.07805 |
| .597 | 14.000 | -2.03000 | .67410 | .01393 | .01980 | .03950 | -.00490 | .00200 | .65070 | .17660 | 3.68469 |
| .598 | 15.060 | -2.04000 | .74510 | .01572 | .01570 | .04120 | -.00460 | .00090 | .71540 | .20878 | 3.42658 |
| .598 | 16.060 | -2.03000 | .79100 | .01661 | .01000 | .03680 | -.00420 | .00250 | .75540 | .23505 | 3.21377 |
| .598 | 17.130 | -2.04000 | .87020 | .01752 | .00570 | .04010 | -.00430 | .00430 | .82640 | .27305 | 3.02653 |
| .598 | 19.270 | -2.03000 | 1.01030 | .01833 | -.00590 | .03610 | -.00430 | .00150 | .94770 | .35072 | 2.70214 |
| | GRADIENT | -.00140 | .04891 | -.00128 | -.00052 | .00081 | .00001 | .00025 | .04780 | .00013 | .69956 |

(RUK004) (24 FEB 77)

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AIRLON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 17/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|-------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .598 | -2.120 | .0000 | -.15190 | .06437 | .03300 | .00070 | .00040 | .00030 | -.14940 | .06995 | -2.13596 |
| .599 | 1.150 | .0000 | -.05160 | .06606 | .03020 | -.00140 | -.00010 | .00030 | -.05170 | .06592 | -.78423 |
| .599 | 2.320 | .0000 | .06380 | .06222 | .03050 | -.00080 | -.00040 | .00000 | .06120 | .06475 | .94515 |
| .598 | 4.350 | .0000 | .15640 | .05549 | .02660 | .00060 | .00010 | -.00010 | .15180 | .06719 | 2.25917 |
| .598 | 6.590 | .0000 | .26700 | .04496 | .02710 | -.00410 | -.00040 | .00000 | .26010 | .07530 | 3.45396 |
| .598 | 8.750 | .0000 | .38510 | .02989 | .02510 | .00000 | -.00030 | -.00030 | .37610 | .08793 | 4.27418 |
| .598 | 10.780 | .0000 | .48240 | .01761 | .02490 | -.00140 | -.00090 | -.00110 | .47060 | .10753 | 4.37659 |
| .598 | 11.970 | .0000 | .55500 | .00933 | .02720 | .00150 | -.00060 | -.00100 | .54100 | .12423 | 4.35469 |
| .597 | 13.030 | .0000 | .61610 | .00754 | .02510 | -.00200 | .00100 | -.00060 | .59850 | .14625 | 4.09224 |
| .598 | 14.090 | .0000 | .67260 | .00995 | .02290 | -.00350 | .00040 | .00050 | .64990 | .17339 | 3.74815 |
| .598 | 15.160 | .0000 | .73300 | .01202 | .01900 | .00040 | -.00240 | .00030 | .70440 | .20329 | 3.46496 |
| .597 | 16.220 | .0000 | .78490 | .01454 | .01520 | .00040 | -.00120 | .00000 | .74950 | .23318 | 3.21430 |
| .598 | 17.220 | .0000 | .85330 | .01667 | .01130 | .00310 | -.00110 | -.00010 | .81010 | .26953 | 3.01674 |
| .598 | 19.420 | .0000 | .98430 | .01994 | -.00050 | -.00120 | -.00010 | -.00080 | .92170 | .34608 | 2.66329 |
| .598 | GRADIENT | .0000 | .04820 | -.00159 | -.00050 | .00001 | -.00009 | -.00007 | .04710 | -.00045 | .69087 |

RUN NO. 16/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|-------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .797 | -2.360 | .0000 | -.18000 | .06834 | .04240 | -.00580 | .00060 | .00060 | -.17710 | .07569 | -2.33968 |
| .798 | -.050 | .0000 | -.05790 | .06910 | .03910 | -.00400 | .00050 | .00040 | -.05780 | .06915 | -.83586 |
| .797 | 2.160 | .0000 | .05590 | .06615 | .03600 | -.00290 | .00020 | .00060 | .05340 | .06821 | .78288 |
| .796 | 4.260 | .0000 | .16380 | .05988 | .03270 | -.00280 | .00030 | .00050 | .16380 | .07225 | 2.26702 |
| .797 | 6.510 | .0000 | .29320 | .05321 | .02550 | -.00050 | -.00010 | .00040 | .28520 | .08611 | 3.31208 |
| .796 | 8.690 | .0000 | .40220 | .05019 | .02250 | -.00170 | -.00060 | -.00030 | .39000 | .11038 | 3.53320 |
| .797 | 10.840 | .0000 | .50140 | .05034 | .02670 | -.00200 | -.00030 | -.00010 | .48300 | .14374 | 3.36027 |
| .797 | 11.950 | .0000 | .55730 | .05069 | .02590 | -.00220 | .00000 | .00010 | .53480 | .16498 | 3.24151 |
| .796 | 12.960 | .0000 | .61090 | .05140 | .02230 | -.00100 | .00000 | .00070 | .58380 | .18710 | 3.12030 |
| .797 | 14.090 | .0000 | .67390 | .05397 | .01380 | -.00270 | -.00040 | .00060 | .63750 | .21567 | 2.95585 |
| .796 | 15.120 | .0000 | .72530 | .05324 | .00810 | -.00210 | -.00070 | .00060 | .68620 | .24471 | 2.80416 |
| .794 | 16.250 | .0000 | .79700 | .05673 | .00350 | .00010 | -.00100 | .00060 | .74930 | .27749 | 2.70030 |
| .797 | 17.330 | .0000 | .85360 | .05800 | .00460 | .00090 | -.00100 | .00310 | .79750 | .30963 | 2.57563 |
| .796 | 19.510 | .0000 | .96030 | .05857 | .00540 | .00050 | -.00130 | .00610 | .88570 | .37573 | 2.35727 |
| .796 | GRADIENT | .0000 | .05256 | -.00127 | -.00146 | .00046 | -.00010 | -.00000 | .05137 | -.00053 | .69927 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK004) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDGRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 15/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| .896 | -2.390 | .00000 | -.18230 | .08144 | .04600 | -.00150 | .00080 | -.00030 | -.17870 | .08897 | -2.00851 |
| .896 | -.060 | .00000 | -.04240 | .08259 | .03220 | -.00120 | .00050 | .00020 | -.04230 | .08263 | -.51189 |
| .896 | 2.210 | .00000 | 1.0050 | .08179 | .02120 | -.00020 | .00050 | .00010 | .09730 | .08560 | 1.13662 |
| .897 | 4.400 | .00000 | .21400 | .08038 | .01910 | -.00090 | .00080 | .00140 | .20720 | .09656 | 2.14579 |
| .897 | 6.560 | .00000 | .30580 | .07933 | .02620 | -.00130 | -.00010 | -.00060 | .29470 | .11381 | 2.58050 |
| .897 | 8.790 | .00000 | .41460 | .07746 | .02410 | -.00040 | -.00100 | -.00130 | .39730 | .13931 | 2.84404 |
| .896 | 10.920 | .00000 | .51880 | .07873 | .01300 | -.00080 | -.00050 | -.00030 | .49450 | .17564 | 2.81536 |
| .898 | 12.410 | .00000 | .57990 | .07816 | .00880 | -.00180 | -.00040 | .00000 | .54950 | .20096 | 2.73441 |
| .896 | 13.030 | .00000 | .63200 | .07995 | .00490 | -.00000 | -.00070 | -.00120 | .59760 | .22038 | 2.71164 |
| .897 | 14.160 | .00000 | .69170 | .08003 | .00030 | .00020 | -.00070 | -.00080 | .65110 | .24681 | 2.63807 |
| .896 | 15.250 | .00000 | .74530 | .08101 | -.00320 | .00100 | -.00110 | -.00030 | .69770 | .27419 | 2.54454 |
| .896 | 16.350 | .00000 | .80590 | .08036 | -.00510 | .00090 | -.00100 | .00060 | .75060 | .30397 | 2.46929 |
| .896 | 17.410 | .00000 | .86190 | .07969 | -.00590 | .00230 | -.00160 | .00020 | .79860 | .33393 | 2.39155 |
| .896 | 19.640 | .00000 | .97220 | .08042 | -.00620 | .00030 | -.00030 | .00110 | .89850 | .40251 | 2.20742 |
| | GRADIENT | .00000 | .05885 | -.00017 | -.00407 | .00013 | -.00000 | .00022 | .05733 | .00111 | .62387 |

LA70 BASELINE OF LA62 (GAPS OPEN, CRIT ON)

(RUK005) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 BETA = -2.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 18/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|---------|---------|---------|--------|---------|--------|---------|---------|----------|
| .599 | -1.920 | -2.04000 | .14500 | .06413 | .02980 | .03270 | -.00320 | .00120 | -.14280 | .06895 | -2.07100 |
| .599 | .360 | -2.04000 | -.03010 | .06510 | .03030 | .03550 | -.00350 | .00170 | -.03050 | .06491 | -.46988 |
| .599 | 2.510 | -2.04000 | .07870 | .06134 | .03060 | .03490 | -.00360 | .00240 | .07500 | .06473 | 1.17415 |
| .598 | 4.650 | -2.04000 | .18190 | .05381 | .02710 | .03530 | -.00370 | .00260 | .17690 | .06839 | 2.58704 |
| .598 | 6.810 | -2.04000 | .28870 | .04206 | .02610 | .03830 | -.00350 | .00310 | .28170 | .07600 | 3.79675 |
| .598 | 8.920 | -2.04000 | .39380 | .02850 | .02420 | .03660 | -.00390 | .00390 | .38460 | .08931 | 4.30611 |
| .598 | 11.010 | -2.04000 | .50680 | .01466 | .02660 | .03830 | -.00390 | .00460 | .49460 | .11118 | 4.44869 |
| .598 | 12.180 | -2.04000 | .58000 | .00729 | .02480 | .03700 | -.00380 | .00440 | .56540 | .12950 | 4.36615 |
| .598 | 13.210 | -2.04000 | .63420 | .00818 | .02240 | .03260 | -.00200 | .00520 | .61550 | .15289 | 4.02573 |
| .598 | 14.270 | -2.04000 | .69180 | .00745 | .02160 | .03510 | -.00250 | .00450 | .66860 | .17774 | 3.76161 |
| .598 | 15.330 | -2.04000 | .73740 | .00973 | .01620 | .03700 | -.00360 | .00440 | .70850 | .20434 | 3.46733 |
| .598 | 16.410 | -2.04000 | .80290 | .01439 | .01190 | .03590 | -.00460 | .00320 | .76610 | .24063 | 3.18372 |
| .597 | 17.430 | -2.04000 | .85700 | .01598 | .00840 | .03540 | -.00390 | .00340 | .81280 | .27195 | 2.98976 |
| .599 | 19.620 | -2.04000 | 1.00090 | .01803 | -.00480 | .03540 | -.00420 | .00260 | .93670 | .35307 | 2.65305 |
| GRADIENT | | -.00000 | .04995 | -.00158 | -.00035 | .00033 | -.00007 | .00022 | .04875 | -.00010 | -.71450 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RJK006) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = .000 BETA = 2.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 19/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|
| .598 | -2.240 | 2.04000 | -1.15260 | .06391 | .03230 | -.03780 | .00410 | -.00060 | -.15000 | .06983 | -2.14821 |
| .598 | -.010 | 2.04000 | -.05040 | .06597 | .02930 | -.03860 | .00380 | -.00160 | -.05040 | .06598 | -.76388 |
| .598 | 2.110 | 2.05000 | .05030 | .06390 | .02940 | -.04150 | .00360 | -.00190 | .04800 | .06571 | .73050 |
| .598 | 4.180 | 2.05000 | .15050 | .05716 | .02680 | -.03960 | .00300 | -.00290 | .14590 | .06798 | 2.14629 |
| .598 | 6.460 | 2.05000 | .25970 | .04602 | .02580 | -.03830 | .00280 | -.00360 | .25280 | .07495 | 3.37307 |
| .598 | 8.600 | 2.04000 | .38040 | .03122 | .02330 | -.03310 | .00330 | -.00510 | .37140 | .08775 | 4.23237 |
| .598 | 10.670 | 2.04000 | .48710 | .01748 | .02700 | -.03630 | .00280 | -.00620 | .47550 | .10737 | 4.42880 |
| .598 | 11.800 | 2.05000 | .54610 | .01085 | .02630 | -.03600 | .00210 | -.00680 | .53240 | .12230 | 4.35337 |
| .598 | 12.820 | 2.04000 | .60430 | .00962 | .02250 | -.03750 | .00460 | -.00550 | .58700 | .14347 | 4.09152 |
| .598 | 13.900 | 2.04000 | .67380 | .01222 | .01920 | -.03800 | .00520 | -.00310 | .65110 | .17373 | 3.74782 |
| .598 | 14.920 | 2.04000 | .71950 | .01275 | .01820 | -.03720 | .00290 | -.00350 | .69190 | .19757 | 3.50205 |
| .598 | 16.050 | 2.04000 | .77680 | .01505 | .01150 | -.03480 | .00260 | -.00340 | .74430 | .22978 | 3.23914 |
| .598 | 17.100 | 2.04000 | .83060 | .01800 | .01310 | -.03480 | .00220 | -.00650 | .78960 | .26143 | 3.01644 |
| .598 | 19.230 | 2.04000 | .96500 | .02139 | -.00440 | -.03470 | .00330 | -.00620 | .90410 | .33803 | 2.67461 |
| | GRADIENT | .00187 | .04723 | -.00103 | -.00077 | -.00039 | -.00016 | -.00034 | .04611 | -.00028 | .67222 |

(RUK007) (24 FEB 77)

LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BRP = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 3.500 ELEVON = .000
 AILRON = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 11/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .598 | -6.090 | -.08000 | -.03610 | .06258 | .02490 | .11850 | -.01160 | .00520 | -.03600 | .06263 | -.57480 |
| .598 | -4.050 | -.11000 | -.04620 | .06449 | .02780 | .07890 | -.00700 | .00330 | -.04610 | .06458 | -.71386 |
| .598 | -2.030 | -.11000 | -.05210 | .06635 | .03120 | .03820 | -.00340 | .00110 | -.05200 | .06645 | -.78254 |
| .598 | -1.010 | -.05000 | -.04530 | .06648 | .03210 | .01960 | -.00120 | .00000 | -.04520 | .06652 | -.67950 |
| .598 | .000 | -.11000 | -.05720 | .06656 | .03340 | .00200 | .00030 | .00000 | -.05710 | .06667 | -.85646 |
| .598 | 1.010 | -.05000 | -.04300 | .06688 | .03210 | -.01620 | -.00140 | -.00140 | -.04300 | .06692 | -.64258 |
| .598 | 2.030 | -.11000 | -.04670 | .06757 | .03020 | -.03660 | .00360 | -.00230 | -.04660 | .06766 | -.68874 |
| .598 | 4.040 | -.12000 | -.03980 | .06647 | .02750 | -.07460 | .00890 | -.00460 | -.03970 | .06655 | -.59652 |
| .598 | 6.080 | -.13000 | -.04450 | .06601 | .02340 | -.11600 | .01240 | -.00650 | -.04440 | .06611 | -.67160 |
| .598 | 8.120 | -.12000 | -.04420 | .06358 | .01900 | -.15950 | .01740 | -.00840 | -.04410 | .06377 | -.69152 |
| GRADIENT | | -.00094 | .00091 | .00025 | -.00007 | -.01881 | .00191 | -.00094 | .00091 | .00025 | .01632 |

LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

(RUK008) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BRP = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 3.500 ELEVON = .000
 AILRON = .000 ALPHA = 13.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 12/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|--------|--------|--------|---------|---------|---------|--------|--------|---------|
| .597 | -6.090 | 13.60000 | .66700 | .01266 | .00870 | .11520 | -.01290 | .01120 | .64530 | .16914 | 3.81507 |
| .597 | -4.050 | 13.56000 | .64700 | .01338 | .01270 | .07560 | -.00860 | .00760 | .62580 | .16470 | 3.79952 |
| .598 | -2.030 | 13.58000 | .64860 | .01275 | .01820 | .03840 | -.00370 | .00300 | .62750 | .16469 | 3.81027 |
| .598 | -1.010 | 13.60000 | .65260 | .01451 | .02070 | .01670 | -.00170 | .00120 | .63090 | .16756 | 3.76529 |
| .598 | .000 | 13.55000 | .65200 | .01554 | .02110 | -.00590 | .00120 | .00010 | .63020 | .16787 | 3.75416 |
| .598 | 1.010 | 13.61000 | .65360 | .01535 | .02290 | -.02090 | .00330 | -.00100 | .63170 | .16872 | 3.74410 |
| .598 | 2.030 | 13.60000 | .65560 | .01555 | .01930 | -.03830 | .00520 | -.00350 | .63350 | .16827 | 3.74247 |
| .597 | 4.050 | 13.60000 | .64920 | .01637 | .01250 | -.07610 | .00970 | -.00820 | .62710 | .16857 | 3.72022 |
| .599 | 6.080 | 13.60000 | .65220 | .01578 | .00820 | -.11270 | .01320 | -.01410 | .63020 | .16870 | 3.73569 |
| .599 | 8.120 | 13.60000 | .65490 | .01348 | .00330 | -.14890 | .01790 | -.02100 | .63340 | .16710 | 3.79062 |
| GRADIENT | | .00494 | .00056 | .00043 | .00008 | -.01875 | .00216 | -.00184 | .00042 | .00061 | -.01114 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK009) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 20/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|---------|--------|--------|---------|---------|---------|---------|--------|---------|
| .598 | -6.110 | -.22000 | -.05490 | .06158 | .02160 | .11390 | -.01170 | .00590 | -.05470 | .06179 | -.88525 |
| .598 | -4.060 | -.18000 | -.05590 | .06351 | .02500 | .07400 | -.00750 | .00350 | -.05570 | .06369 | -.87461 |
| .598 | -2.040 | -.20000 | -.06500 | .05525 | .02940 | .03420 | -.00340 | .00190 | -.06480 | .05548 | -.98967 |
| .598 | -1.010 | -.17000 | -.05270 | .06565 | .03150 | .01580 | -.00130 | .00680 | -.05250 | .06581 | -.79780 |
| .598 | .010 | -.11000 | -.05540 | .05581 | .03280 | -.00010 | -.00090 | .00080 | -.05520 | .06592 | -.83743 |
| .598 | 1.030 | -.17000 | -.05430 | .06579 | .03200 | -.03020 | .00050 | .00000 | -.05410 | .06595 | -.82031 |
| .598 | 2.040 | -.25000 | -.06360 | .06575 | .03080 | -.03730 | .00370 | -.00120 | -.05330 | .06603 | -.95870 |
| .598 | 4.070 | -.32000 | -.06070 | .06524 | .02820 | -.07720 | .00790 | -.00370 | -.05040 | .06558 | -.92104 |
| .598 | 6.110 | -.29000 | -.05750 | .06462 | .02390 | -.11850 | .01250 | -.00590 | -.05720 | .06491 | -.88122 |
| .598 | 8.150 | -.26000 | -.05090 | .06205 | .02110 | -.15930 | .01770 | -.00740 | -.05060 | .06228 | -.81246 |
| GRADIENT | | -.01542 | -.00042 | .00019 | .00028 | -.01835 | .00182 | -.00093 | -.00040 | .00021 | -.00337 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK010) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = 13.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 21/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|--------|---------|---------|---------|---------|---------|--------|--------|---------|
| .598 | -6.110 | 13.75000 | .65690 | .00569 | .00850 | .10770 | -.01150 | .01490 | .63670 | .16166 | 3.93044 |
| .598 | -4.070 | 13.80000 | .67030 | .00758 | .01650 | .07460 | -.00760 | .00910 | .64910 | .16725 | 3.88101 |
| .598 | -2.040 | 13.79000 | .66080 | .00657 | .02170 | .03440 | -.00220 | .00540 | .64010 | .16389 | 3.90563 |
| .598 | -1.010 | 13.77000 | .64950 | .00789 | .02180 | .01190 | -.00050 | .00270 | .62226 | .16226 | 3.87648 |
| .598 | .000 | 13.75000 | .65770 | .00945 | .02390 | -.00250 | .00110 | .00070 | .63680 | .16464 | 3.96772 |
| .598 | 1.010 | 13.75000 | .65700 | .01034 | .02150 | -.01980 | .00290 | -.00090 | .63560 | .16654 | 3.81659 |
| .597 | 2.040 | 13.75000 | .65150 | .01220 | .01790 | -.04030 | .00570 | -.00270 | .62990 | .16681 | 3.77609 |
| .598 | 4.070 | 13.79000 | .67550 | .01269 | .01460 | -.07730 | .00630 | -.00820 | .65300 | .17333 | 3.76739 |
| .597 | 6.110 | 13.77000 | .65970 | .01225 | .00890 | -.11120 | .01300 | -.01380 | .63690 | .16869 | 3.77546 |
| .598 | 8.150 | 13.78000 | .66520 | .00978 | .00610 | -.14930 | .01830 | -.02100 | .64360 | .16795 | 3.83220 |
| GRADIENT | | -.00211 | .00022 | -.00009 | -.00037 | -.01843 | .00194 | -.00208 | .00004 | .00081 | -.01810 |

(RUK011) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 28/ 0 RN/L = 8.06 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000
 AIRLON = .000 ALPHA = 13.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .582 | -6.210 | 14.47000 | .72580 | -.00465 | .00210 | .11630 | -.01150 | .01360 | .70390 | .17686 | 3.98009 |
| .601 | -4.140 | 14.58000 | .72880 | .00653 | .01210 | .08000 | -.00850 | .00660 | .70510 | .18397 | 3.83259 |
| .599 | -2.070 | 14.61000 | .71460 | .00296 | .01570 | .03870 | -.00430 | .00180 | .59070 | .18311 | 3.77197 |
| .599 | -1.050 | 14.44000 | .69900 | .00409 | .01670 | .02500 | -.00170 | .00200 | .57590 | .17827 | 3.79149 |
| .600 | -.520 | 14.50000 | .70750 | .00515 | .01800 | .01430 | -.00100 | -.00130 | .68370 | .18213 | 3.75392 |
| .600 | .000 | 14.32000 | .68830 | .00485 | .01770 | .00000 | .00070 | -.00210 | .66570 | .17494 | 3.80527 |
| .599 | .510 | 14.51000 | .71070 | .00677 | .01610 | -.00850 | .00010 | -.00340 | .68630 | .18462 | 3.71738 |
| .600 | 1.040 | 14.46000 | .71320 | .00725 | .01610 | -.01710 | .00010 | -.00430 | .68880 | .18511 | 3.72105 |
| .599 | 2.060 | 14.38000 | .71320 | .00611 | .01620 | -.03120 | .00290 | -.00700 | .68930 | .18304 | 3.78578 |
| .600 | 4.120 | 14.51000 | .71250 | .00732 | .01080 | -.06640 | .00630 | -.01220 | .68790 | .18560 | 3.70630 |
| .599 | 6.200 | 14.62000 | .73090 | .00500 | .00540 | -.10800 | .01040 | -.01850 | .70580 | .18930 | 3.72853 |
| | GRADIENT | -.01630 | -.00119 | .00095 | -.00013 | -.01774 | .00173 | -.00224 | -.00131 | .00033 | -.01382 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK012) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 14/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | AIRLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .598 | -5.000 | .05000 | -.04170 | .06863 | .02860 | .01150 | -.00380 | -.01790 | -.04180 | .06859 | -.60939 |
| .598 | -3.980 | .05000 | -.04110 | .06758 | .03280 | .00970 | -.00230 | -.01450 | -.04120 | .06764 | -.60907 |
| .598 | -2.020 | .05000 | -.03730 | .06646 | .03040 | .00770 | -.00060 | -.00770 | -.03730 | .06642 | -.56157 |
| .598 | -1.010 | .09000 | -.03110 | .06569 | .03160 | .00470 | .00000 | -.00290 | -.03120 | .06563 | -.47538 |
| .598 | -.020 | .06000 | -.04590 | .06615 | .03170 | .00000 | .00010 | -.00070 | -.04590 | .06610 | -.69438 |
| .598 | 1.010 | .08000 | -.04130 | .06531 | .03310 | -.00470 | .00090 | .00280 | -.04140 | .06625 | -.62488 |
| .598 | 1.980 | .08000 | -.04660 | .06635 | .03210 | -.00690 | .00140 | .00690 | -.04670 | .06628 | -.70453 |
| .598 | 4.040 | .08000 | -.04290 | .06745 | .03310 | -.01160 | .00270 | .01250 | -.04310 | .06739 | -.63956 |
| .598 | 5.010 | .08000 | -.04390 | .06792 | .03660 | -.01530 | .00380 | .01680 | -.04400 | .06786 | -.64841 |
| .598 | 5.990 | .09000 | -.03260 | .06970 | .02850 | -.01870 | .00160 | .02120 | -.03280 | .06965 | -.47093 |
| .598 | 8.020 | .08000 | -.04690 | .07124 | .03450 | -.02320 | .00620 | .02650 | -.04700 | .07117 | -.66035 |
| .598 | 9.990 | .05000 | -.05110 | .07472 | .03690 | -.02790 | .00700 | .03500 | -.05120 | .07468 | -.68563 |
| | GRADIENT | .00381 | -.00051 | -.00015 | .00034 | -.00273 | .00067 | .00342 | -.00052 | -.00015 | -.00915 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK013) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 BETA = .000 ALPHA = 13.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 13/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CO | L/D |
|----------|--------|----------|---------|--------|---------|---------|---------|---------|---------|---------|---------|
| .598 | -4.990 | 13.82000 | .66730 | .01566 | .02470 | .01780 | -.00400 | -.01940 | .64430 | .17461 | 3.69002 |
| .598 | -3.990 | 13.82000 | .66980 | .01535 | .02310 | .01610 | -.00340 | -.01610 | .64680 | .17490 | 3.69806 |
| .598 | -2.000 | 13.80000 | .65560 | .01501 | .02160 | .00480 | -.00130 | -.00700 | .63310 | .17096 | 3.70322 |
| .598 | -.950 | 13.81000 | .66760 | .01461 | .02030 | .00000 | .00000 | -.00210 | .64480 | .17355 | 3.71545 |
| .598 | -.030 | 13.81000 | .66760 | .01538 | .02130 | -.00160 | .00150 | .00040 | .64460 | .17429 | 3.69836 |
| .599 | 1.010 | 13.83000 | .65750 | .01545 | .02250 | -.00600 | .00180 | .00440 | .63480 | .17218 | 3.68680 |
| .599 | 1.990 | 13.82000 | .65970 | .01613 | .02130 | -.01230 | .00280 | .00850 | .63670 | .17325 | 3.67510 |
| .598 | 4.030 | 13.80000 | .65780 | .01630 | .02130 | -.01440 | .00500 | .01490 | .63490 | .17274 | 3.67553 |
| .598 | 5.000 | 13.81000 | .66670 | .01701 | .02270 | -.01830 | .00570 | .01920 | .64330 | .17566 | 3.66216 |
| .597 | 5.990 | 13.81000 | .66750 | .01740 | .02080 | -.02380 | .00630 | .02230 | .64410 | .17623 | 3.65486 |
| .598 | 8.020 | 13.82000 | .66840 | .01942 | .01940 | -.03060 | .00810 | .03110 | .64440 | .17852 | 3.60968 |
| .599 | 9.990 | 13.82000 | .67870 | .02302 | .01540 | -.03620 | .00990 | .03850 | .65360 | .18448 | 3.54300 |
| GRADIENT | | -.00076 | -.00058 | .00015 | -.00017 | -.00373 | .00100 | .00386 | -.00060 | -.00000 | -.00341 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK014) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BRFL = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 23/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .598 | -4.940 | .18000 | -.03250 | .06794 | .03080 | .01390 | -.00340 | -.01750 | -.03270 | .06784 | -.48203 |
| .598 | -3.900 | .18000 | -.03510 | .06755 | .03200 | .00980 | -.00290 | -.01340 | -.03530 | .06744 | -.52343 |
| .599 | -1.940 | .18000 | -.04020 | .06628 | .03110 | .00720 | -.00140 | -.00690 | -.04040 | .06615 | -.61070 |
| .598 | -.930 | .18000 | -.03600 | .06587 | .03000 | .00510 | .00000 | -.00280 | -.03620 | .06576 | -.55032 |
| .598 | .050 | .18000 | -.03940 | .06532 | .03260 | .00030 | .00090 | .00030 | -.03960 | .06520 | -.60740 |
| .598 | 1.070 | .18000 | -.04520 | .06560 | .03460 | -.00170 | .00110 | .00390 | -.04540 | .06546 | -.69358 |
| .598 | 2.070 | .19000 | -.04090 | .06604 | .03430 | -.00470 | .00200 | .00740 | -.04120 | .06590 | -.62515 |
| .598 | 4.100 | .19000 | -.04190 | .06565 | .03370 | -.00960 | .00310 | .01300 | -.04210 | .06671 | -.63108 |
| .598 | 5.070 | .15000 | -.05360 | .06769 | .03540 | -.01340 | .00360 | .01740 | -.05370 | .06755 | -.79497 |
| .598 | 6.040 | .17000 | -.03890 | .06801 | .03520 | -.01250 | .00520 | .01940 | -.03910 | .06789 | -.57590 |
| .599 | 8.090 | .20000 | -.04690 | .07122 | .03400 | -.02350 | .00620 | .02720 | -.04720 | .07106 | -.66427 |
| .598 | 10.030 | .16000 | -.04810 | .07438 | .03420 | -.02670 | .00750 | .03300 | -.04830 | .07425 | -.65055 |
| | GRADIENT | .00114 | -.00109 | -.00017 | .00040 | -.00257 | .00076 | .00341 | -.00109 | -.00018 | -.01787 |

DATE 01 MAR 77

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 13

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK015) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. YO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 13.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 22/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|---------|---------|---------|---------|---------|--------|---------|---------|
| .598 | -4.930 | 14.13000 | .67800 | .01189 | .02400 | .01480 | -.00330 | -.01820 | .65460 | .17705 | 3.69735 |
| .599 | -3.910 | 14.11000 | .67240 | .01139 | .02560 | .01280 | -.00260 | -.01410 | .64930 | .17497 | 3.71099 |
| .598 | -1.940 | 14.10000 | .67840 | .00999 | .02460 | .00760 | -.00100 | -.00730 | .65550 | .17496 | 3.74663 |
| .598 | -.930 | 14.13000 | .68450 | .01030 | .02120 | .00500 | .00040 | -.00220 | .66120 | .17709 | 3.73369 |
| .598 | -.060 | 14.11000 | .67250 | .01043 | .02270 | -.00340 | .00050 | .00070 | .64970 | .17406 | 3.73262 |
| .598 | 1.060 | 14.12000 | .67490 | .01064 | .02250 | -.00210 | .00140 | .00380 | .65190 | .17496 | 3.72594 |
| .598 | 2.070 | 14.09000 | .67300 | .00984 | .02610 | -.00660 | .00260 | .00850 | .65030 | .17358 | 3.75066 |
| .599 | 4.100 | 14.16000 | .69090 | .01133 | .02270 | -.01130 | .00360 | .01440 | .65740 | .17755 | 3.70252 |
| .599 | 5.080 | 14.10000 | .67320 | .01225 | .02530 | -.01510 | .00470 | .01910 | .64990 | .17588 | 3.69508 |
| .598 | 6.050 | 14.09000 | .67700 | .01354 | .02350 | -.02050 | .00530 | .02230 | .65330 | .17795 | 3.67135 |
| .598 | 8.090 | 14.10000 | .67980 | .01624 | .01980 | -.02710 | .00770 | .03140 | .65540 | .18136 | 3.61380 |
| .598 | 10.050 | 14.09000 | .68430 | .01936 | .01610 | -.03290 | .00930 | .03890 | .65900 | .18537 | 3.55510 |
| | GRADIENT | .00180 | .00012 | -.00009 | -.00014 | -.00306 | .00079 | .00365 | .00013 | -.00004 | .00162 |

(RUK016) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 8.000 ELEVON = .000
 BETA = .000 ALPHA = 13.000
 CRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 26/ 0 RN/L = 7.10 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .498 | -5.040 | 13.94000 | .67120 | -.00484 | .02210 | .02450 | -.00540 | -.02390 | .65250 | .15700 | 4.15609 |
| .498 | -4.030 | 13.97000 | .67680 | -.00576 | .02170 | .02050 | -.00500 | -.02050 | .65810 | .15780 | 4.17049 |
| .498 | -3.110 | 13.97000 | .67910 | -.00752 | .01950 | .01170 | -.00250 | -.01100 | .66080 | .15665 | 4.21841 |
| .497 | -1.040 | 13.96000 | .67610 | -.00762 | .01800 | .00760 | -.00170 | -.00810 | .65900 | .15571 | 4.22579 |
| .498 | -.060 | 13.95000 | .66950 | -.00771 | .02240 | .00370 | -.00110 | -.00470 | .65160 | .15403 | 4.23032 |
| .497 | .990 | 13.93000 | .66590 | -.00757 | .02070 | -.00010 | -.00030 | -.00080 | .64910 | .15320 | 4.23695 |
| .498 | 1.960 | 13.93000 | .67240 | -.00771 | .02170 | -.00060 | .00050 | .00450 | .65450 | .15452 | 4.23306 |
| .499 | 3.990 | 13.97000 | .67280 | -.00665 | .02170 | -.01030 | .00270 | .01080 | .65450 | .15597 | 4.19632 |
| .498 | 4.950 | 13.97000 | .67810 | -.00660 | .02050 | -.01340 | .00350 | .01510 | .65960 | .15730 | 4.19332 |
| .498 | 5.940 | 13.94000 | .67450 | -.00361 | .01760 | -.01920 | .00500 | .02270 | .65550 | .15899 | 4.12297 |
| .498 | 7.980 | 13.93000 | .67340 | -.00057 | .01340 | -.02830 | .00640 | .03100 | .65370 | .16156 | 4.04621 |
| .497 | 9.940 | 13.93000 | .66710 | .00154 | .01820 | -.03360 | .00820 | .03690 | .64710 | .16209 | 3.99223 |
| | GRADIENT | -.00044 | -.00033 | -.00001 | .00010 | -.00346 | .00066 | .00366 | -.00032 | -.00010 | .00055 |

RUN NO. 29/ 0 RN/L = 8.07 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|---------|---------|---------|---------|---------|--------|--------|---------|
| .582 | -5.010 | 14.39000 | .70960 | .00531 | .01550 | .01820 | -.00390 | -.02310 | .68600 | .18149 | 3.77974 |
| .600 | -4.740 | 14.46000 | .70960 | .00817 | .01460 | .02010 | -.00510 | -.02110 | .68410 | .18485 | 3.70081 |
| .600 | -4.100 | 14.50000 | .71890 | .00761 | .01510 | .02610 | -.00280 | -.01840 | .69410 | .18737 | 3.70452 |
| .600 | -3.150 | 14.55000 | .73440 | .00708 | .01500 | .01670 | -.00250 | -.01500 | .70910 | .19135 | 3.70573 |
| .599 | -2.490 | 14.51000 | .71850 | .00569 | .01510 | .01350 | -.00260 | -.01230 | .69190 | .18599 | 3.71999 |
| .601 | -1.410 | 14.48000 | .72100 | .00392 | .01440 | .00740 | -.00090 | -.00640 | .69660 | .18592 | 3.74686 |
| .600 | -.550 | 14.53000 | .72370 | .00585 | .01490 | .00740 | -.00160 | -.00510 | .69300 | .18723 | 3.73338 |
| .601 | .070 | 14.50000 | .71460 | .00536 | .01370 | .00080 | -.00070 | -.00220 | .69030 | .18479 | 3.73562 |
| .600 | .720 | 14.51000 | .72060 | .00602 | .01490 | .00280 | .00010 | .00000 | .69610 | .18637 | 3.73497 |
| .600 | 1.430 | 14.50000 | .72360 | .00511 | .01430 | -.00330 | .00030 | .00310 | .69900 | .18709 | 3.73616 |
| .600 | 2.090 | 14.52000 | .72780 | .00354 | .01250 | -.00250 | .00090 | .00580 | .69900 | .18880 | 3.72292 |
| .599 | 2.950 | 14.50000 | .72000 | .00632 | .01260 | -.00770 | .00120 | .00850 | .69550 | .18639 | 3.73138 |
| .600 | 3.660 | 14.57000 | .72950 | .00721 | .01200 | -.00850 | .00190 | .01130 | .70030 | .18949 | 3.69577 |
| .600 | 4.310 | 14.54000 | .72930 | .00751 | .01080 | -.00830 | .00350 | .01380 | .70400 | .19036 | 3.69917 |
| .601 | 5.240 | 14.53000 | .73560 | .00804 | .01170 | -.01240 | .00360 | .01590 | .71010 | .19336 | 3.69199 |
| .601 | 5.510 | 14.49000 | .71820 | .00891 | .01070 | -.01290 | .00400 | .02040 | .69340 | .18746 | 3.69899 |
| .599 | 6.960 | 14.51000 | .72050 | .00852 | .01160 | -.02110 | .00550 | .02670 | .69530 | .18877 | 3.68334 |
| .600 | 7.460 | 14.53000 | .72590 | .01021 | .00900 | -.02310 | .00560 | .02890 | .70010 | .19200 | 3.64631 |
| .600 | 7.760 | 14.56000 | .73560 | .01195 | .00990 | -.02390 | .00610 | .03100 | .71000 | .19200 | 3.61589 |
| .600 | 8.950 | 14.50000 | .73230 | .01258 | .00850 | -.02630 | .00510 | .03340 | .70640 | .19568 | 3.60992 |
| .600 | 9.840 | 14.57000 | .74350 | .01329 | .00940 | -.02410 | .00730 | .03460 | .71620 | .20051 | 3.57198 |
| | GRADIENT | .00487 | .00037 | -.00007 | -.00040 | -.00375 | .00075 | .00384 | .00094 | .00023 | .00044 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK017) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000
 BETA = .000 ALPHA = 13.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 27/ 0 RN/L = 7.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|---------|--------|---------|---------|---------|--------|---------|---------|
| .499 | -4.980 | 13.95000 | .65730 | -.00325 | .02110 | .02140 | -.00560 | -.02220 | .63870 | .15530 | 4.11257 |
| .499 | -4.350 | 13.96000 | .66340 | -.00494 | .02250 | .01940 | -.00500 | -.01950 | .64490 | .15525 | 4.15401 |
| .499 | -3.460 | 13.98000 | .67490 | -.00720 | .02330 | .02020 | -.00370 | -.01750 | .65660 | .15606 | 4.20742 |
| .500 | -2.720 | 13.96000 | .66490 | -.00691 | .02030 | .01580 | -.00410 | -.01500 | .64690 | .15370 | 4.20892 |
| .499 | -2.230 | 13.97000 | .67170 | -.00818 | .02140 | .00360 | -.00230 | -.00910 | .65380 | .15422 | 4.23941 |
| .499 | -.930 | 13.96000 | .67650 | -.00942 | .02060 | .00910 | -.00070 | -.00690 | .65870 | .15406 | 4.27560 |
| .499 | .800 | 13.95000 | .65900 | -.00696 | .02300 | .00290 | -.00180 | -.00250 | .64120 | .15223 | 4.21217 |
| .499 | 1.490 | 13.94000 | .64970 | -.00544 | .02290 | .00600 | .00000 | .00000 | .63190 | .15124 | 4.17822 |
| .499 | 2.460 | 13.95000 | .66830 | -.00830 | .02050 | -.00100 | .00010 | .00280 | .65060 | .15294 | 4.25391 |
| .499 | 2.940 | 13.93000 | .66950 | -.00798 | .02270 | -.00130 | .00100 | .00580 | .65160 | .15366 | 4.24067 |
| .499 | 3.260 | 13.97000 | .67290 | -.00772 | .02010 | -.00400 | .00200 | .00740 | .65420 | .15472 | 4.22818 |
| .499 | 4.480 | 13.97000 | .66880 | -.00706 | .02370 | -.00700 | .00340 | .00900 | .65480 | .15496 | 4.22572 |
| .499 | 4.920 | 13.97000 | .66600 | -.00546 | .02390 | -.01290 | .00390 | .01230 | .65080 | .15461 | 4.20940 |
| .500 | 5.410 | 13.99000 | .67490 | -.00604 | .02230 | -.01360 | .00450 | .01580 | .64760 | .15548 | 4.16508 |
| .501 | 5.720 | 13.97000 | .66670 | -.00487 | .02070 | -.01170 | .00510 | .02040 | .64820 | .15718 | 4.17601 |
| .500 | 6.650 | 13.94000 | .64830 | -.00124 | .02340 | -.02130 | .00540 | .02510 | .64920 | .15622 | 4.14915 |
| .499 | 7.660 | 14.00000 | .66450 | -.00200 | .02090 | -.02830 | .00540 | .02830 | .64520 | .15498 | 4.06193 |
| .498 | 7.990 | 13.97000 | .67330 | -.00248 | .02070 | -.03090 | .00560 | .03020 | .64990 | .16014 | 4.06255 |
| .496 | 8.320 | 13.92000 | .65660 | -.00000 | .02080 | -.03240 | .00810 | .03410 | .63730 | .16014 | 4.08337 |
| .498 | 9.940 | 13.94000 | .66990 | -.00112 | .01780 | -.03210 | .00830 | .03750 | .64990 | .16247 | 4.00013 |
| .498 | GRADIENT | -.00070 | .00038 | -.00017 | .00009 | -.00320 | .00093 | -.00376 | .00041 | -.00006 | .00436 |

(RUK018) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 25/ 0 RN/L = 8.08 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|----------|---------|---------|---------|---------|---------|---------|---------|----------|
| .582 | -2.070 | .00000 | -1.13420 | .06431 | .02850 | -.00070 | .00000 | -.00210 | -.13180 | .06912 | -1.90696 |
| .601 | .280 | .00000 | -.02940 | .06518 | .02800 | .00080 | .00000 | -.00160 | -.02970 | .06504 | -.45667 |
| .600 | 2.360 | .00000 | .07090 | .06163 | .02670 | .00470 | -.00060 | -.00180 | .06930 | .06450 | 1.05896 |
| .600 | 4.820 | .00000 | .18840 | .05281 | .02470 | .00300 | -.00070 | -.00200 | .18330 | .06845 | 2.67772 |
| .600 | 7.050 | .00000 | .30440 | .04018 | .02400 | .00380 | -.00100 | -.00210 | .29720 | .07724 | 3.84790 |
| .599 | 9.220 | .00000 | .41240 | .02614 | .02320 | .00390 | -.00070 | -.00200 | .40290 | .09188 | 4.38510 |
| .599 | 11.410 | .00000 | .53640 | .01026 | .02510 | .00500 | -.00090 | -.00250 | .52380 | .11617 | 4.50882 |
| .599 | 12.310 | .00000 | .57800 | .00572 | .02330 | .00120 | -.00060 | -.00290 | .56350 | .12882 | 4.37437 |
| .598 | 13.550 | .00000 | .65090 | .00305 | .02030 | .00200 | .00020 | -.00220 | .63210 | .15547 | 4.06582 |
| .597 | 14.570 | .00000 | .70950 | .00498 | .01780 | .00310 | -.00040 | -.00210 | .68540 | .18330 | 3.73915 |
| .597 | 15.710 | .00000 | .77370 | .00514 | .01730 | .00310 | -.00150 | -.00220 | .74340 | .21444 | 3.46668 |
| .600 | 16.800 | .00000 | .82100 | .00773 | .01550 | .00690 | -.00170 | -.00210 | .78370 | .24470 | 3.20276 |
| .601 | 17.770 | .00000 | .88100 | .01240 | .01120 | .00490 | -.00130 | -.00190 | .83510 | .28069 | 2.97520 |
| .600 | 20.070 | .00000 | 1.02020 | .01631 | -.00490 | .00210 | .00000 | -.00190 | .95270 | .36542 | 2.60714 |
| .600 | GRADIENT | .00000 | .04695 | -.00168 | -.00056 | .00065 | -.00012 | .00000 | .04586 | -.00010 | .67079 |

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 17

LA70 BASELINE OF LAG2 (CAPS OPEN, GRIT ON)

(RUK019) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 30 / 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .598 | -2.210 | .00000 | -14640 | .06491 | .03030 | .00410 | .00040 | -.00240 | -114370 | .07051 | -2.03809 |
| .596 | -.070 | .00000 | -.04330 | .06683 | .02960 | .00090 | -.00010 | -.00250 | -.04320 | .06688 | -.64591 |
| .596 | 1.940 | .00000 | .05450 | .06389 | .02820 | .00210 | -.00030 | -.00230 | .05230 | .06570 | .79606 |
| .596 | 4.190 | .00000 | .16700 | .05604 | .02760 | .00180 | -.00060 | -.00270 | .16250 | .06809 | 2.38648 |
| .596 | 6.250 | .00000 | .26370 | .04593 | .02580 | .00240 | -.00090 | -.00240 | .25720 | .07437 | 3.45861 |
| .596 | 8.390 | .00000 | .37610 | .03198 | .02330 | .00460 | -.00130 | -.00320 | .36740 | .08651 | 4.24668 |
| .596 | 10.470 | .00000 | .48190 | .01880 | .02420 | .00180 | -.00110 | -.00390 | .47040 | .10606 | 4.43530 |
| .596 | 11.370 | .00000 | .53820 | .01239 | .02540 | .00370 | -.00150 | -.00360 | .52570 | .11837 | 4.44123 |
| .596 | 12.730 | .00000 | .60910 | .01349 | .01990 | -.00040 | .00150 | -.00120 | .59110 | .14738 | 4.01078 |
| .596 | 13.460 | .00000 | .64900 | .01419 | .02000 | .00140 | .00120 | -.00120 | .62790 | .16487 | 3.80856 |
| .596 | 14.470 | .00000 | .71340 | .01250 | .01620 | .00210 | -.00040 | -.00180 | .68760 | .19036 | 3.61205 |
| .596 | 15.530 | .00000 | .77540 | .01409 | .01190 | .00130 | -.00120 | -.00160 | .74330 | .22118 | 3.36056 |
| .596 | 16.530 | .00000 | .82940 | .01831 | .00440 | .00260 | -.00170 | -.00170 | .78990 | .25353 | 3.11558 |
| .596 | 18.710 | .00000 | .96080 | .02021 | -.00190 | .00850 | -.00160 | -.00590 | .90350 | .32735 | 2.76008 |
| .595 | GRADIENT | .00000 | .04695 | -.00140 | -.00045 | -.00027 | -.00015 | -.00003 | .04782 | -.00039 | .69383 |

(RUK020) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L =
 ALLRON =
 GRIT =
 RUDDER =

4.500 ELEVON = .000
 .000 BETA = .000
 1.000 SPDBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 38/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|----------|---------|---------|---------|---------|---------|---------|--------|----------|
| .896 | -2.320 | .00000 | -1.17660 | .07972 | .04740 | -.00110 | .00090 | -.00030 | -.17320 | .08680 | -1.99531 |
| .897 | -.020 | .00000 | -.03660 | .08124 | .03390 | -.00110 | .00060 | -.00020 | -.03660 | .08125 | -.45045 |
| .896 | 2.050 | .00000 | .08810 | .08005 | .02420 | -.00060 | .00030 | .00000 | .09520 | .08315 | 1.02453 |
| .897 | 4.380 | .00000 | .21760 | .07849 | .02110 | -.00240 | .00080 | .00110 | .21090 | .09488 | 2.22283 |
| .897 | 6.510 | .00000 | .30740 | .07714 | .02480 | -.00100 | .00020 | .00020 | .29650 | .11149 | 2.56022 |
| .897 | 8.680 | .00000 | .41130 | .07537 | .02310 | -.00170 | -.00130 | -.00110 | .39520 | .13658 | 2.89358 |
| .896 | 10.800 | .00000 | .51000 | .07631 | .01900 | -.00070 | -.00070 | -.00150 | .48660 | .17052 | 2.85358 |
| .896 | 11.730 | .00000 | .55940 | .07655 | .01550 | -.00060 | -.00100 | -.00050 | .53210 | .18868 | 2.82016 |
| .897 | 13.120 | .00000 | .63420 | .07690 | .01090 | -.00120 | -.00040 | -.00070 | .60020 | .21885 | 2.74251 |
| .897 | 13.840 | .00000 | .66590 | .07826 | .00400 | -.00130 | -.00080 | -.00040 | .62790 | .23528 | 2.66875 |
| .896 | 14.910 | .00000 | .72440 | .07855 | .00060 | -.00100 | -.00140 | -.00040 | .67980 | .26229 | 2.59174 |
| .896 | 16.030 | .00000 | .78220 | .07851 | .00040 | .00070 | -.00100 | -.00010 | .73010 | .29155 | 2.50420 |
| .896 | 17.040 | .00000 | .83440 | .07795 | -.00060 | .00030 | -.00160 | .00000 | .77490 | .31905 | 2.42878 |
| .897 | 19.300 | .00000 | .94340 | .07905 | -.00200 | -.00300 | -.00080 | .00070 | .86420 | .38641 | 2.23546 |
| | GRADIENT | .00000 | .05895 | -.00022 | -.00399 | -.00016 | -.00003 | .00020 | .05746 | .00119 | .63669 |

PARAMETRIC DATA

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK021) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 31/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|--------|---------|---------|----------|
| .596 | -2.200 | .00000 | -.15130 | .06531 | .02930 | -.00520 | .00100 | .00590 | -.14870 | .07107 | -2.09231 |
| .597 | -.010 | .00000 | -.03910 | .06617 | .02920 | -.00420 | .00170 | .00600 | -.03910 | .06618 | -.59084 |
| .596 | 2.000 | .00000 | .05980 | .06289 | .02970 | -.00450 | .00120 | .00610 | .05760 | .06494 | .88699 |
| .596 | 4.220 | .00000 | .16530 | .05597 | .02730 | -.00190 | .00110 | .00610 | .16070 | .06798 | 2.36386 |
| .596 | 6.270 | .00000 | .26290 | .04631 | .02330 | -.00610 | .00090 | .00600 | .25630 | .07475 | 3.42698 |
| .596 | 8.400 | .00000 | .37770 | .03242 | .02310 | -.00440 | .00100 | .00600 | .36890 | .08725 | 4.22819 |
| .596 | 10.480 | .00000 | .47910 | .01937 | .02280 | -.00370 | .00070 | .00600 | .46760 | .10619 | 4.40337 |
| .596 | 11.390 | .00000 | .53430 | .01366 | .02410 | -.00510 | .00010 | .00570 | .52110 | .11891 | 4.38238 |
| .596 | 12.750 | .00000 | .61350 | .01150 | .02140 | -.00770 | .00270 | .00660 | .59580 | .14672 | 4.06084 |
| .595 | 13.440 | .00000 | .63850 | .01429 | .01760 | -.00820 | .00250 | .00710 | .61770 | .16230 | 3.80584 |
| .596 | 14.480 | .00000 | .71710 | .01195 | .01760 | -.00370 | .00110 | .00620 | .69130 | .19088 | 3.62173 |
| .595 | 15.560 | .00000 | .76650 | .01505 | .01140 | -.00670 | .00050 | .00710 | .73440 | .22011 | 3.33651 |
| .596 | 16.530 | .00000 | .85420 | .01715 | .00800 | -.00310 | .00000 | .00650 | .79480 | .25380 | 3.13166 |
| .596 | 18.710 | .00000 | .96920 | .02069 | -.00430 | -.00430 | -.00020 | .00230 | .91130 | .33049 | 2.75738 |
| .596 | GRADIENT | .00000 | .04930 | -.00147 | -.00026 | .00046 | -.00001 | .00003 | .04818 | -.00049 | .69776 |

(RUK022) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AIRLON = 2.000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 37/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| .897 | -2.310 | .00000 | -.18250 | .08096 | .04970 | -.01200 | .00430 | .00640 | -.17910 | .08825 | -2.02946 |
| .896 | .000 | .00000 | -.03900 | .08131 | .03670 | -.01090 | .00410 | .00580 | -.03900 | .08131 | -.47965 |
| .897 | 2.040 | .00000 | .08080 | .08131 | .02570 | -.01040 | .00380 | .00510 | .07780 | .08413 | .92471 |
| .896 | 4.380 | .00300 | .21590 | .07866 | .02180 | -.00940 | .00330 | .00450 | .20320 | .09512 | 2.19937 |
| .896 | 6.480 | .00000 | .30880 | .07773 | .02350 | -.00910 | .00290 | .00460 | .29800 | .11208 | 2.65873 |
| .896 | 8.670 | .00000 | .41240 | .07548 | .02360 | -.00670 | .00140 | .00320 | .39630 | .13678 | 2.89727 |
| .897 | 10.790 | .00000 | .51610 | .07622 | .01820 | -.00520 | .00140 | .00280 | .49270 | .17149 | 2.87303 |
| .897 | 11.730 | .00000 | .56100 | .07632 | .01520 | -.00310 | .00130 | .00390 | .53370 | .18878 | 2.82714 |
| .896 | 13.080 | .00300 | .62770 | .07847 | .00770 | -.00380 | .00010 | .00440 | .59360 | .21849 | 2.71693 |
| .897 | 13.850 | .00000 | .67440 | .07853 | .00510 | -.00250 | -.00010 | .00500 | .63600 | .23769 | 2.67581 |
| .897 | 14.910 | .00000 | .72740 | .07955 | .00080 | -.00240 | -.00030 | .00530 | .68240 | .26403 | 2.58453 |
| .896 | 16.000 | .00000 | .78050 | .07920 | -.00090 | -.00070 | .00010 | .00510 | .72840 | .29127 | 2.50080 |
| .898 | 17.000 | .00000 | .83390 | .07961 | -.00410 | -.00070 | -.00010 | .00530 | .77420 | .31994 | 2.41983 |
| .897 | 19.280 | .00000 | .94030 | .07996 | -.00290 | -.00220 | .00020 | .00710 | .86120 | .38585 | 2.23193 |
| | GRADIENT | .00000 | .05948 | -.03029 | -.00427 | .00038 | -.00015 | -.00029 | .05797 | .00106 | .63681 |

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK023) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 3.500 ELEVON = 10.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 32/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .595 | -2.150 | .00000 | .00680 | .07506 | -.04520 | .00420 | .00010 | -.00190 | .00960 | .07475 | .12842 |
| .595 | .020 | .00000 | .10930 | .07632 | -.04600 | -.00080 | -.00070 | -.00180 | .10930 | .07636 | 1.43141 |
| .596 | 2.000 | .00000 | .20340 | .07291 | -.04770 | .00400 | -.00040 | -.00200 | .20070 | .07996 | 2.50987 |
| .596 | 4.250 | .00000 | .31290 | .06493 | -.04920 | .00190 | -.00030 | -.00200 | .30730 | .08794 | 3.49443 |
| .597 | 6.310 | .00000 | .42230 | .05435 | -.05340 | .00110 | -.00020 | -.00180 | .41380 | .10043 | 4.12009 |
| .596 | 8.430 | .00000 | .53690 | .04146 | -.06100 | -.00030 | -.00060 | -.00170 | .52500 | .11972 | 4.38515 |
| .596 | 10.530 | .00000 | .65980 | .02827 | -.06440 | -.00020 | -.00100 | -.00230 | .64360 | .14837 | 4.33773 |
| .595 | 11.420 | .00000 | .71250 | .02313 | -.06410 | -.00170 | -.00130 | -.00250 | .69380 | .16375 | 4.23703 |
| .595 | 12.730 | .00000 | .78720 | .02085 | -.07060 | -.00170 | -.00030 | -.00250 | .76330 | .19380 | 3.93855 |
| .596 | 13.500 | .00000 | .83140 | .02264 | -.07140 | -.00200 | .00040 | .00000 | .80320 | .21610 | 3.71678 |
| .595 | 14.550 | .00000 | .90020 | .02553 | -.07470 | .00260 | -.00070 | .00080 | .86490 | .25086 | 3.44769 |
| .595 | 15.600 | .00000 | .95970 | .02992 | -.07860 | .00020 | -.00130 | .00120 | .91630 | .28690 | 3.19379 |
| .596 | 16.550 | .00000 | .99750 | .03565 | -.08250 | .00210 | -.00110 | .00070 | .94600 | .31831 | 2.97192 |
| .596 | 18.750 | .00000 | 1.12200 | .04001 | -.09260 | .00620 | -.00210 | -.00510 | 1.04950 | .39854 | 2.63335 |
| .596 | GRADIENT | .00000 | .04780 | -.00160 | -.00065 | -.00011 | -.00004 | -.00002 | .04649 | .00205 | .52725 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK024) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 ALLRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 36/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|--------|---------|---------|---------|---------|---------|--------|----------|
| .897 | -2.330 | .00000 | -.09760 | .08673 | -.00610 | -.00160 | .00120 | -.00040 | -.09400 | .09063 | -1.03723 |
| .896 | -.050 | .00000 | .04150 | .08754 | -.01770 | -.00190 | .00080 | -.00060 | .04160 | .08750 | .47541 |
| .897 | 2.050 | .00000 | .17960 | .08813 | -.03310 | .00060 | .00030 | -.00090 | .17640 | .09450 | 1.86670 |
| .897 | 4.350 | .00000 | .32090 | .08731 | -.05460 | .00090 | .00010 | -.00370 | .31340 | .11140 | 2.81333 |
| .896 | 6.490 | .00000 | .45660 | .08700 | -.07060 | -.00130 | .00020 | -.00010 | .44380 | .13805 | 3.21473 |
| .897 | 8.640 | .00000 | .55020 | .08644 | -.07370 | -.00120 | -.00100 | -.00100 | .54080 | .16962 | 3.19039 |
| .897 | 10.790 | .00000 | .68220 | .08555 | -.08510 | -.00190 | -.00100 | -.00150 | .65350 | .21470 | 3.04380 |
| .897 | 11.760 | .00000 | .73100 | .09056 | -.09030 | -.00050 | -.00040 | -.00010 | .69720 | .23765 | 2.93377 |
| .897 | 13.120 | .00000 | .80290 | .09406 | -.09940 | .00020 | -.00090 | .00000 | .76050 | .27386 | 2.77701 |
| .896 | 13.920 | .00000 | .85030 | .09572 | -.10460 | .00160 | -.00100 | .00000 | .80230 | .29746 | 2.69714 |
| .897 | 14.930 | .00000 | .90180 | .09763 | -.10890 | .00030 | -.00070 | -.00020 | .84620 | .32667 | 2.59036 |
| .897 | 16.070 | .00000 | .96170 | .09845 | -.11140 | .00150 | -.00060 | .00020 | .89680 | .36081 | 2.48550 |
| .897 | 17.070 | .00000 | 1.00760 | .09913 | -.11200 | -.00040 | -.00050 | .00110 | .93410 | .39053 | 2.39185 |
| .896 | 19.290 | .00000 | 1.06890 | .09907 | -.10160 | -.00410 | .00060 | .00260 | 1.01180 | .45914 | 2.20359 |
| | GRADIENT | .00000 | .06293 | .00010 | -.00727 | .00045 | -.00017 | -.00005 | .06128 | .00313 | .58406 |

DATE 01 MAR 77

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LAG2 (CAPS OPEN, GRIT ON)

(RUK025) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = 10.000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 33/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|--------|---------|--------|---------|
| .596 | -2.150 | .00000 | -.00430 | .07427 | -.04310 | -.00020 | .00000 | .00250 | -.00150 | .07438 | -.02017 |
| .596 | .040 | .00000 | .10830 | .07579 | -.04460 | -.00360 | -.00050 | .00230 | .10820 | .07587 | 1.42621 |
| .596 | 2.000 | .00000 | .20050 | .07210 | -.04580 | .00050 | -.00040 | .00260 | .19800 | .07906 | 2.50452 |
| .596 | 4.260 | .00000 | .31360 | .06446 | -.04740 | .00180 | -.00030 | .00300 | .30790 | .08758 | 3.51577 |
| .596 | 6.320 | .00000 | .42190 | .05392 | -.05100 | .00070 | -.00040 | .00310 | .41340 | .10004 | 4.13253 |
| .596 | 8.420 | .00000 | .53630 | .04102 | -.05880 | -.00310 | -.00040 | .00310 | .52450 | .11911 | 4.40359 |
| .595 | 10.520 | .00000 | .64880 | .02902 | -.06070 | -.00160 | -.00040 | .00480 | .63250 | .14699 | 4.30303 |
| .595 | 11.420 | .00000 | .70700 | .02287 | -.06540 | -.00270 | -.00140 | .00390 | .68840 | .16240 | 4.23884 |
| .596 | 12.740 | .00000 | .79080 | .02033 | -.06660 | -.00530 | -.00100 | .00390 | .75680 | .19422 | 3.94805 |
| .596 | 13.500 | .00000 | .82480 | .02270 | -.07050 | -.00590 | .00100 | .00630 | .79670 | .21462 | 3.71217 |
| .595 | 14.510 | .00000 | .88700 | .02551 | -.07340 | -.00460 | -.00090 | .00680 | .85230 | .24693 | 3.45154 |
| .595 | 15.590 | .00000 | .95430 | .02735 | -.07580 | -.00090 | -.00050 | .00620 | .91180 | .28281 | 3.22403 |
| .598 | 16.560 | .00000 | .99900 | .03462 | -.08000 | .00100 | -.00070 | .00550 | .94760 | .31811 | 2.97884 |
| .595 | 18.740 | .00000 | 1.13490 | .03528 | -.08990 | .00330 | -.00080 | .00070 | 1.06310 | .39897 | 2.66461 |
| .595 | GRADIENT | .00000 | .04938 | -.00157 | -.00067 | .00047 | -.00004 | .00008 | .04806 | .00203 | .55113 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AIRLON = 2.000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 35/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|--------|---------|--------|---------|
| .896 | -2.270 | .00000 | -.09100 | .08769 | -.01040 | .00070 | .00010 | .00300 | -.08740 | .09123 | -.95806 |
| .896 | .020 | .00000 | .04900 | -.08864 | -.02160 | -.00030 | .00000 | .00340 | .04890 | .08866 | .55156 |
| .896 | 2.080 | .00000 | .18440 | .08992 | -.03640 | -.00130 | .00010 | .00380 | .18110 | .09555 | 1.89526 |
| .896 | 4.370 | .00000 | .32280 | .08946 | -.05670 | -.00230 | .00000 | .00450 | .31510 | .11280 | 2.79346 |
| .896 | 6.520 | .00000 | .45500 | .08818 | -.07200 | -.00410 | .00000 | .00530 | .44210 | .13927 | 3.17430 |
| .896 | 8.690 | .01000 | .56560 | .08710 | -.07670 | -.00410 | -.00130 | .00470 | .54600 | .17156 | 3.18264 |
| .896 | 10.810 | .00000 | .67650 | .08922 | -.08580 | -.00150 | -.00150 | .00450 | .64780 | .21452 | 3.01982 |
| .896 | 11.770 | .00000 | .72800 | .09095 | -.08930 | -.00180 | -.00150 | .00540 | .69410 | .23755 | 2.92194 |
| .896 | 13.130 | .00000 | .80470 | .09445 | -.09890 | -.00050 | -.00200 | .00490 | .76200 | .27544 | 2.76646 |
| .897 | 13.900 | .00000 | .84560 | .09597 | -.10380 | .00190 | -.00220 | .00480 | .79790 | .29634 | 2.69247 |
| .897 | 14.950 | .00000 | .90150 | .09901 | -.10980 | .00140 | -.00200 | .00390 | .84550 | .32721 | 2.58400 |
| .896 | 16.050 | .00000 | .95970 | .09911 | -.11170 | .00100 | -.00180 | .00470 | .89480 | .36058 | 2.48155 |
| .897 | 17.080 | .00000 | 1.00670 | .09934 | -.11080 | -.00030 | -.00200 | .00500 | .93310 | .39063 | 2.38869 |
| .896 | 19.300 | .00000 | 1.09840 | .09988 | -.10290 | -.00220 | -.00110 | .00560 | 1.00360 | .45730 | 2.19460 |
| | GRADIENT | .00000 | .06262 | .00012 | -.00699 | -.00045 | -.00001 | .00022 | .06093 | .00326 | .57265 |

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK027) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 RREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 437 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .597 | -2.210 | .0000 | -.15880 | .06399 | .03760 | -.00330 | -.00030 | -.00220 | -.15620 | .07507 | -2.22932 |
| .598 | -.020 | .00000 | -.05550 | .06585 | .03570 | -.00070 | -.00040 | -.00240 | -.05550 | .06587 | -.84258 |
| .599 | 1.920 | .00000 | .03570 | .06288 | .03460 | .00230 | .00000 | -.00240 | .03460 | .06407 | .54000 |
| .598 | 4.180 | .00000 | .15210 | .05503 | .03380 | .00400 | -.00060 | -.00240 | .14770 | .06597 | 2.23889 |
| .597 | 6.270 | .00000 | .25480 | .04474 | .03180 | .00200 | -.00080 | -.00260 | .24840 | .07230 | 3.43568 |
| .597 | 8.380 | .00000 | .35310 | .03306 | .02790 | .00320 | -.00050 | -.00220 | .34450 | .08417 | 4.09305 |
| .597 | 10.460 | .00000 | .46510 | .01936 | .03030 | .00260 | -.00160 | -.00320 | .45380 | .10348 | 4.58553 |
| .597 | 11.410 | .00000 | .51910 | .01326 | .03150 | .00500 | -.00120 | -.00270 | .50520 | .11549 | 4.37430 |
| .598 | 12.730 | .00000 | .59550 | .01308 | .02450 | -.00500 | .00110 | -.00080 | .57800 | .14398 | 4.01442 |
| .598 | 13.500 | .00000 | .64930 | .01398 | .02340 | -.00130 | .00080 | -.00090 | .62710 | .16484 | 3.80432 |
| .597 | 14.510 | .00000 | .71410 | .01175 | .01960 | .00160 | -.00020 | -.00120 | .68840 | .19029 | 3.61759 |
| .597 | 15.610 | .00000 | .78030 | .01335 | .01430 | .00330 | -.00070 | -.00020 | .74790 | .22283 | 3.35642 |
| .596 | 16.560 | .00000 | .82260 | .01677 | .00930 | .00030 | -.00120 | -.00070 | .78370 | .25053 | 3.12815 |
| .597 | 18.700 | .00000 | .95620 | .02091 | -.00020 | .00470 | -.00210 | -.00440 | .89900 | .32628 | 2.75529 |
| | GRADIENT | .00000 | .04957 | -.00142 | -.00059 | .00118 | -.00003 | -.00003 | .04747 | -.00066 | .70059 |

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 212/ 0 RN/L = 4.53 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|--------|---------|---------|---------|---------|----------|
| .348 | -2.110 | .00000 | -14.590 | .06133 | .03680 | .00520 | .00080 | -.00170 | -.14350 | .06666 | -2.15271 |
| .349 | .000 | .00000 | -.05310 | .06282 | .03520 | .00250 | -.00050 | -.00110 | -.05310 | .06282 | -.84527 |
| .349 | 1.910 | .00000 | .03430 | .06074 | .03330 | .00220 | -.00090 | -.00110 | .03230 | .06185 | .52224 |
| .349 | 3.900 | .00000 | .13960 | .05381 | .03430 | .01020 | .00020 | -.00170 | .13560 | .06318 | 2.14624 |
| .349 | 6.150 | .00000 | .23760 | .04411 | .03180 | .00630 | -.00090 | -.00200 | .23150 | .06931 | 3.34004 |
| .349 | 8.250 | .00000 | .32510 | .03214 | .02980 | .00440 | -.00150 | -.00270 | .31710 | .07846 | 4.04171 |
| .348 | 10.300 | .00000 | .42470 | .01858 | .03250 | .00800 | -.00180 | -.00200 | .41450 | .09422 | 4.39938 |
| .349 | 11.260 | .00000 | .48250 | .01010 | .03170 | .00440 | -.00240 | -.00260 | .47120 | .10412 | 4.52558 |
| .348 | 11.910 | .00000 | .51700 | .00510 | .03100 | .00810 | -.00100 | -.00260 | .50480 | .11169 | 4.51981 |
| .348 | 13.320 | .00000 | .58490 | -.00370 | .03550 | .00570 | -.00200 | -.00260 | .57090 | .13115 | 4.34603 |
| .348 | 14.300 | .00000 | .64310 | -.01133 | .03560 | .01070 | -.00220 | -.00290 | .62590 | .14787 | 4.23288 |
| .348 | 15.350 | .00000 | .69960 | -.01839 | .03370 | .01450 | -.00110 | -.00220 | .67550 | .16746 | 4.05768 |
| .348 | 16.370 | .00000 | .77500 | -.02651 | .02870 | .01070 | -.00190 | -.00300 | .75100 | .19299 | 3.89139 |
| .348 | 18.570 | .00000 | .89390 | -.03563 | .01790 | .00990 | -.00270 | -.00310 | .86060 | .25154 | 3.42138 |
| .348 | GRADIENT | .00000 | .04732 | -.00047 | -.00072 | .00072 | -.00011 | .00000 | .04625 | -.00058 | .71475 |

RUN NO. 125/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .597 | -2.210 | .00000 | -1.6360 | .06217 | .03980 | -.00040 | .00020 | -.00130 | -.16110 | .06843 | -2.35414 |
| .595 | -.020 | .00000 | -.06580 | .06384 | .03880 | -.00110 | -.00040 | -.00100 | -.06580 | .06386 | -1.93033 |
| .597 | 2.010 | .00000 | .04110 | .06084 | .03750 | .00200 | .00010 | -.00150 | .03990 | .06224 | .62496 |
| .597 | 4.320 | .00000 | .14830 | .05374 | .03540 | .00260 | -.00060 | -.00150 | .14390 | .06476 | 2.22211 |
| .597 | 6.410 | .00000 | .24850 | .04371 | .03340 | -.00050 | -.00080 | -.00130 | .24210 | .07118 | 3.40124 |
| .597 | 8.630 | .00000 | .36620 | .02935 | .03130 | .00240 | -.00050 | -.00150 | .35770 | .08397 | 4.26000 |
| .596 | 10.590 | .00000 | .46480 | .01593 | .03270 | .00110 | -.00080 | -.00190 | .45380 | .10206 | 4.44630 |
| .597 | 11.580 | .00000 | .52520 | .01004 | .03320 | .00090 | -.00100 | -.00260 | .51250 | .11526 | 4.44639 |
| .597 | 12.820 | .00000 | .59320 | .00411 | .03440 | .00340 | -.00110 | -.00230 | .58230 | .13674 | 4.25840 |
| .596 | 13.630 | .00000 | .63240 | .00461 | .02970 | -.00250 | -.00030 | -.00160 | .62030 | .15516 | 3.99793 |
| .597 | 14.690 | .00000 | .71070 | .00567 | .02530 | -.00320 | -.00080 | -.00050 | .66500 | .18571 | 3.69392 |
| .597 | 15.790 | .00000 | .77150 | .00699 | .01970 | .00460 | -.00110 | -.00010 | .74050 | .21653 | 3.41982 |
| .598 | 16.840 | .00000 | .83170 | .01022 | .01590 | .00370 | -.00130 | -.00070 | .79500 | .25073 | 3.16282 |
| .598 | 19.040 | .00000 | .97810 | .01290 | .00220 | .00270 | -.00100 | -.00030 | .92030 | .33128 | 2.77803 |
| .597 | GRADIENT | .00000 | .04820 | -.00132 | -.00053 | .00056 | -.00009 | -.00005 | .04714 | -.00057 | .71115 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 27

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK028) (24 FEB 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =
 4.500 ELEVON = .000
 .000 BETA = .000
 1.000 SPDBRK = 25.000
 .000 BOFLAP = .000

RUN NO. 154/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|-------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .796 | -2.230 | .0000 | -1.9260 | .06599 | .05320 | -.00460 | .00080 | -.00010 | -.18990 | .07343 | -2.58599 |
| .798 | .080 | .0000 | -.07570 | .06685 | .05030 | -.00460 | .00090 | -.00010 | -.07570 | .06674 | -1.13418 |
| .795 | 2.050 | .0000 | .02850 | .06422 | .04760 | -.00260 | .00020 | -.00010 | .02620 | .06520 | .40185 |
| .797 | 4.340 | .0000 | .15160 | .05776 | .04490 | -.00130 | .00040 | -.00030 | .14680 | .06907 | 2.12548 |
| .797 | 6.510 | .0000 | .27570 | .05067 | .03680 | -.00310 | .00040 | -.00040 | .26810 | .08160 | 3.28549 |
| .797 | 8.690 | .0000 | .39320 | .04581 | .03220 | -.00110 | .00010 | -.00060 | .38160 | .10568 | 3.61688 |
| .797 | 10.780 | .0000 | .49360 | .04569 | .03180 | -.00230 | .00000 | -.00010 | .47630 | .13721 | 3.47143 |
| .796 | 11.750 | .0000 | .54560 | .04519 | .03380 | -.00140 | .00010 | .00020 | .52490 | .15735 | 3.37882 |
| .796 | 12.750 | .0000 | .59160 | .04614 | .03080 | -.00250 | .00040 | .00040 | .56690 | .17557 | 3.22897 |
| .797 | 13.880 | .0000 | .65460 | .04783 | .02640 | -.00290 | .00020 | .00080 | .62400 | .20346 | 3.06687 |
| .796 | 14.920 | .0000 | .72050 | .05168 | .01380 | -.00100 | .00050 | .00100 | .68290 | .23544 | 2.90047 |
| .794 | 15.990 | .0000 | .78440 | .05361 | .00620 | .00000 | .00070 | .00170 | .73920 | .26761 | 2.76219 |
| .797 | 17.010 | .0000 | .84640 | .05369 | .00610 | .00000 | .00050 | .00060 | .79360 | .29995 | 2.65466 |
| .796 | 19.300 | .0000 | .95340 | .05564 | .00600 | -.00150 | .00070 | .00290 | .88140 | .36763 | 2.39755 |
| GRADIENT | | .0000 | .05243 | -.00126 | -.00129 | .00054 | -.00009 | -.00003 | .03129 | -.00068 | .72222 |

RUN NO. 50/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|-------|---------|---------|---------|---------|--------|---------|---------|---------|----------|
| .896 | -2.310 | .0000 | -1.8980 | .07976 | .05370 | -.00170 | .00030 | -.00070 | -.18640 | .08735 | -2.13406 |
| .896 | .000 | .0000 | -.04560 | .09051 | .04300 | -.00090 | .00050 | -.00060 | -.04570 | .08051 | -.56763 |
| .896 | 2.050 | .0000 | .07450 | .08007 | .03300 | -.00010 | .00020 | -.00050 | .07160 | .08268 | .86595 |
| .896 | 4.390 | .0000 | .19800 | .07918 | .02790 | -.00160 | .00050 | .00010 | .19130 | .11009 | 2.03287 |
| .896 | 6.480 | .0000 | .29860 | .07588 | .03140 | -.00110 | .00020 | -.00050 | .28800 | .11009 | 2.61629 |
| .896 | 8.680 | .0000 | .40720 | .07501 | .02830 | -.00010 | .00120 | -.00170 | .39120 | .13560 | 2.88488 |
| .896 | 10.780 | .0000 | .50430 | .07603 | .02100 | -.00010 | .00060 | -.00050 | .48120 | .16901 | 2.84714 |
| .896 | 13.170 | .0000 | .63370 | .07801 | .00720 | .00150 | .00120 | .00130 | .59920 | .22034 | 2.71942 |
| .897 | 13.900 | .0000 | .67360 | .07794 | .00400 | .00040 | .00100 | .00060 | .63510 | .23748 | 2.67439 |
| .897 | 14.910 | .0000 | .72670 | .07868 | .00000 | .00110 | .00160 | .00100 | .68200 | .26301 | 2.59304 |
| .897 | 16.050 | .0000 | .78440 | .07829 | -.00010 | -.00010 | .00130 | .00030 | .73210 | .29211 | 2.50628 |
| .896 | 17.070 | .0000 | .83750 | .07772 | -.00160 | .00260 | .00130 | -.00030 | .77780 | .32014 | 2.42959 |
| .896 | 19.300 | .0000 | .94530 | .07834 | -.00200 | -.00190 | .00070 | .00050 | .86620 | .38637 | 2.24188 |
| GRADIENT | | .0000 | .05793 | -.00010 | -.00054 | .00005 | .00001 | -.00011 | .05644 | -.00102 | .62843 |

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK028) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 ALLRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 185/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| .948 | -2.160 | .00000 | -20750 | .10429 | .07550 | -.00230 | .00080 | .00000 | -.20340 | .11204 | -1.81548 |
| .947 | .140 | .00000 | -.05370 | .10301 | .05780 | -.00190 | .00050 | -.00020 | -.05400 | .10288 | -.52489 |
| .947 | .350 | .00000 | -.04530 | .10334 | .05450 | -.00160 | .00040 | -.00050 | -.04600 | .10306 | -.44634 |
| .947 | 2.180 | .00000 | .07550 | .10282 | .03910 | -.00250 | .00020 | -.00060 | .07150 | .10482 | .68213 |
| .947 | 4.480 | .00000 | .21990 | .10222 | .01970 | -.00210 | .00010 | -.00030 | .21040 | .11569 | 1.80302 |
| .948 | 6.690 | .00000 | .35280 | .09670 | .00520 | -.00020 | .00000 | -.00040 | .35910 | .13714 | 2.47262 |
| .946 | 8.900 | .00000 | .47770 | .09262 | -.00630 | -.00190 | .00010 | .00010 | .45760 | .16541 | 2.76646 |
| .948 | 11.030 | .01000 | .58660 | .09324 | -.01670 | -.00190 | -.00200 | -.00030 | .55790 | .20375 | 2.73819 |
| .946 | 11.980 | .02000 | .63700 | .09276 | -.01670 | -.00370 | -.00330 | -.00040 | .60390 | .22296 | 2.70853 |
| .948 | 13.320 | .02000 | .71390 | .09414 | -.02400 | -.00290 | -.00370 | -.00060 | .67290 | .25608 | 2.62767 |
| .947 | 14.200 | .02000 | .75660 | .09390 | -.02760 | -.00490 | -.00420 | -.00070 | .71040 | .27563 | 2.56805 |
| .947 | 15.200 | .03000 | .81330 | .09374 | -.02980 | -.00730 | -.00440 | -.00070 | .76030 | .30370 | 2.50346 |
| .947 | 16.340 | .02000 | .87610 | .09470 | -.02990 | -.00670 | -.00400 | .00070 | .81400 | .33735 | 2.41290 |
| .948 | 17.340 | .03000 | .92890 | .09506 | -.03410 | -.00990 | -.00380 | .00090 | .85830 | .36759 | 2.33494 |
| .948 | 19.620 | .00000 | 1.04650 | .09346 | -.03280 | -.00110 | -.00050 | -.00030 | .95440 | .43943 | 2.17191 |
| .948 | GRADIENT | .00000 | .06418 | -.00056 | -.00846 | -.00001 | -.00011 | -.00005 | .06230 | .00087 | .54998 |

RUN NO. 291/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| .977 | -2.090 | .00000 | -20770 | .12370 | .08180 | -.00290 | .00030 | .00020 | -.20310 | .13119 | -1.54811 |
| .976 | .190 | .00000 | -.05560 | .12177 | .06320 | -.00080 | .00020 | .00010 | -.05600 | .12158 | -.46059 |
| .977 | 2.220 | .00000 | .07340 | .12036 | .04410 | -.00200 | -.00010 | -.00020 | -.06870 | .12311 | .55802 |
| .977 | 4.470 | .00000 | .21740 | .11779 | .02240 | -.00150 | .00020 | .00000 | .20750 | .13438 | 1.54418 |
| .977 | 6.690 | .00000 | .35130 | .11547 | .00560 | -.00010 | .00000 | -.00020 | .35540 | .15561 | 2.15540 |
| .976 | 8.890 | .00000 | .48000 | .11379 | -.01010 | .00000 | -.00030 | -.00040 | .45660 | .18660 | 2.44693 |
| .977 | 11.080 | .00000 | .60520 | .11418 | -.01960 | .00210 | -.00120 | -.00070 | .57200 | .22836 | 2.50483 |
| .977 | 12.040 | .00000 | .66290 | .11505 | -.02610 | -.00070 | -.00070 | -.00050 | .62430 | .25380 | 2.48927 |
| .977 | 12.950 | .00000 | .71780 | .11467 | -.03010 | -.00090 | -.00040 | -.00070 | .67380 | .27273 | 2.47057 |
| .977 | 14.240 | .00000 | .76990 | .11424 | -.03410 | -.00170 | -.00040 | -.00010 | .73740 | .30501 | 2.41764 |
| .977 | 15.270 | .00000 | .84270 | .11402 | -.03660 | .00020 | -.00120 | -.00040 | .78290 | .33192 | 2.35873 |
| .976 | 16.440 | .00000 | .90620 | .11425 | -.03840 | -.00170 | -.00040 | -.00020 | .83580 | .36604 | 2.28607 |
| .977 | 17.400 | .00000 | .95490 | .11480 | -.04270 | -.00350 | -.00030 | -.00060 | .87680 | .39510 | 2.21918 |
| .977 | 19.680 | .00000 | 1.08690 | .11359 | -.05390 | -.00060 | .00020 | .00060 | .98500 | .47295 | 2.08266 |
| .977 | GRADIENT | .00000 | .06469 | -.00088 | -.00908 | -.00013 | -.00008 | -.00002 | .06249 | .00050 | .47407 |

DATE 01 MAR 77

TABLATED SOURCE DATA. CALSPAN T18-103 (LA70)

PAGE 29

(RUK028) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 ALLRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 247/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|--------|---------|--------|---------|---------|---------|---------|---------|--------|----------|
| 1.047 | -2.140 | .0000 | -20120 | .14739 | .08760 | -.00310 | .00100 | -.00020 | -.19550 | .15480 | -1.26292 |
| 1.047 | .150 | .0000 | -.05290 | .14710 | .05080 | -.00290 | .00040 | -.00010 | -.05330 | .14596 | -.36268 |
| 1.048 | 2.180 | .0000 | .08730 | .14873 | .03660 | -.00070 | .00030 | -.00030 | .08150 | .15194 | .53704 |
| 1.047 | 4.280 | .0000 | .22810 | .14948 | .01160 | -.00140 | .00000 | -.00060 | .21630 | .16609 | 1.30233 |
| 1.046 | 6.680 | .0000 | .36730 | .14738 | -.00940 | -.00300 | -.00040 | -.00070 | .34760 | .18911 | 1.83813 |
| 1.048 | 8.860 | .0000 | .48950 | .14431 | -.02120 | -.00140 | -.00020 | -.00080 | .46140 | .21738 | 2.11670 |
| 1.047 | 11.040 | .0000 | .60950 | .14046 | -.02970 | .00050 | -.00060 | -.00100 | .57140 | .25458 | 2.24451 |
| 1.047 | 12.020 | .0000 | .66640 | .13929 | -.03500 | .00000 | .00010 | -.00100 | .62270 | .27502 | 2.26423 |
| 1.048 | 12.940 | .0000 | .71890 | .13847 | -.03720 | .00200 | .00020 | -.00090 | .66960 | .29594 | 2.26264 |
| 1.047 | 14.150 | .0000 | .78470 | .13855 | -.04340 | -.00380 | .00000 | -.00080 | .72700 | .32618 | 2.22886 |
| 1.046 | 15.240 | .0000 | .84480 | .13933 | -.04650 | .00160 | -.00060 | -.00120 | .77840 | .35650 | 2.18347 |
| 1.046 | 16.330 | .0000 | .92130 | .13956 | -.05920 | .00410 | -.00150 | -.00320 | .84480 | .39297 | 2.14978 |
| 1.047 | 17.360 | .0000 | .99090 | .13927 | -.07070 | -.00010 | -.00050 | -.00040 | .90410 | .42859 | 2.10950 |
| 1.047 | 19.680 | .0000 | 1.11410 | .13886 | -.07520 | .00090 | -.00030 | -.00090 | 1.00220 | .50594 | 1.98086 |
| | GRADIENT | .00000 | .06706 | .00037 | -.01184 | .00034 | -.00015 | -.00006 | .06434 | .00177 | .40366 |

RUN NO. 293/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|--------|---------|--------|---------|---------|---------|---------|---------|--------|----------|
| 1.117 | -2.070 | .0000 | -19280 | .14616 | .08760 | -.00220 | .00110 | .00000 | -.18740 | .15303 | -1.22461 |
| 1.118 | .220 | .0000 | -.03500 | .14709 | .05290 | -.00230 | .00060 | -.00010 | -.03550 | .14595 | -.24157 |
| 1.118 | 2.250 | .0000 | .09940 | .14862 | .02440 | -.00350 | .00000 | -.00060 | .09340 | .15241 | .61283 |
| 1.118 | 4.460 | .0000 | .24020 | .14875 | .00000 | -.00190 | .00060 | -.00070 | .22790 | .16698 | 1.36485 |
| 1.117 | 6.740 | .0000 | .37350 | .14710 | -.01990 | -.00210 | .00020 | -.00110 | .35360 | .18992 | 1.86185 |
| 1.117 | 8.930 | .0000 | .48790 | .14375 | -.03470 | -.00400 | -.00030 | -.00100 | .45970 | .21775 | 2.11111 |
| 1.118 | 11.080 | .0000 | .60430 | .13902 | -.03890 | -.00270 | -.00050 | -.00100 | .56550 | .25158 | 2.26176 |
| 1.117 | 12.100 | .0000 | .66490 | .13509 | -.04130 | .00170 | .00090 | -.00100 | .62160 | .27244 | 2.28159 |
| 1.117 | 12.980 | .0000 | .71320 | .13571 | -.04470 | -.00140 | .00070 | -.00100 | .66450 | .29205 | 2.27533 |
| 1.118 | 14.230 | .0000 | .78130 | .13465 | -.04750 | -.00200 | .00000 | -.00100 | .72710 | .32331 | 2.24892 |
| 1.118 | 15.310 | .0000 | .85190 | .13528 | -.05620 | -.00080 | -.00040 | -.00060 | .78590 | .35542 | 2.21121 |
| 1.118 | 16.400 | .0000 | .91970 | .13504 | -.06450 | -.00190 | -.00150 | -.00160 | .84380 | .39017 | 2.16262 |
| 1.118 | 17.410 | .0000 | .97100 | .13556 | -.06900 | -.00020 | -.00000 | -.00000 | .89560 | .42083 | 2.10439 |
| 1.118 | 19.700 | .0000 | 1.08660 | .13630 | -.07390 | .00010 | -.00070 | -.00000 | .97700 | .49451 | 1.97529 |
| | GRADIENT | .00000 | .06631 | .00043 | -.01348 | -.00002 | -.00010 | -.00012 | .06360 | .00217 | .39886 |

(RUK029) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AIRLON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 59/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|-------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| .896 | -2.280 | .0000 | -.18070 | .07941 | .05140 | -.00040 | .00020 | -.00100 | -.17740 | .08654 | -2.05002 |
| .895 | .030 | .0000 | -.04080 | .08029 | .04020 | -.00060 | .00010 | -.00090 | -.04080 | .08027 | -.50829 |
| .896 | 2.040 | .0000 | .07780 | .08021 | .03180 | .00110 | -.00010 | -.00090 | .07480 | .08293 | .90198 |
| .896 | 4.260 | .0000 | .19820 | .07854 | .02600 | .00050 | .00000 | -.00070 | .19180 | .09305 | 2.06135 |
| .896 | 6.490 | .0000 | .29880 | .07693 | .02970 | .00000 | -.00070 | -.00130 | .28820 | .11021 | 2.61500 |
| .895 | 8.690 | .0000 | .41390 | .07386 | .02640 | -.00080 | -.00130 | -.00130 | .39300 | .13555 | 2.93624 |
| .897 | 10.790 | .0000 | .51710 | .07500 | .01830 | .00000 | -.00100 | -.00100 | .49390 | .17048 | 2.89711 |
| .896 | 11.740 | .0000 | .56550 | .07510 | .01440 | -.00170 | -.00080 | -.00050 | .54140 | .18920 | 2.86149 |
| .896 | 13.470 | .0000 | .65130 | .07704 | .00610 | -.00020 | -.00080 | -.00110 | .61540 | .22663 | 2.71541 |
| .895 | 13.820 | .0000 | .67240 | .07725 | .00410 | .00080 | -.00090 | -.00120 | .63440 | .23563 | 2.69234 |
| .896 | 14.910 | .0000 | .73090 | .07804 | -.00020 | .00160 | -.00110 | -.00120 | .68610 | .26347 | 2.60405 |
| .896 | 16.030 | .0000 | .79240 | .07797 | -.00400 | -.00040 | -.00060 | -.00110 | .74000 | .29375 | 2.51913 |
| .896 | 17.050 | .0000 | .84940 | .07812 | -.00640 | .00050 | -.00050 | -.00200 | .78910 | .32374 | 2.43748 |
| .896 | 19.320 | .0000 | .96290 | .07946 | -.00750 | -.00390 | -.00060 | -.00060 | .88230 | .39355 | 2.24187 |
| GRADIENT | | .0000 | .05904 | -.00012 | -.00391 | .00020 | -.00004 | -.00004 | .05656 | .00101 | .63526 |

RUN NO. 266/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|-------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| .948 | -2.100 | .0000 | -.20320 | .10484 | .07460 | -.00040 | .00060 | -.00090 | -.19920 | .11222 | -1.77515 |
| .948 | .250 | .0000 | -.04570 | .10494 | .05720 | .00070 | .00060 | -.00080 | -.04620 | .10384 | -.44492 |
| .947 | 2.270 | .0000 | .08650 | .10258 | .03850 | .00110 | .00030 | -.00100 | .08240 | .10593 | .77790 |
| .948 | 3.930 | .0000 | .18530 | .10199 | .02240 | -.00180 | -.00010 | -.00100 | .17890 | .11452 | 1.56219 |
| .948 | 4.140 | .0000 | .26160 | .10156 | .02020 | .00020 | .00000 | -.00120 | .19370 | .11585 | 1.67200 |
| .947 | 6.740 | .0000 | .35550 | .09718 | .02270 | .00190 | -.00010 | -.00110 | .34170 | .13824 | 2.47173 |
| .948 | 8.930 | .0000 | .48150 | .09413 | -.01020 | -.00180 | -.00020 | -.00030 | .46100 | .16773 | 2.74845 |
| .948 | 11.070 | .0100 | .59360 | .09422 | -.01730 | -.00080 | -.00300 | -.00070 | .56440 | .20644 | 2.73393 |
| .947 | 12.030 | .0100 | .64690 | .09361 | -.01940 | -.00360 | -.00290 | -.00080 | .61320 | .22638 | 2.70868 |
| .948 | 13.220 | .0100 | .71350 | .09463 | -.02590 | -.00270 | -.00340 | .00040 | .67500 | .25577 | 2.63906 |
| .948 | 14.120 | .0100 | .76350 | .09532 | -.02900 | -.00170 | -.00440 | .00050 | .71720 | .27872 | 2.57316 |
| .947 | 15.250 | .0200 | .81940 | .09478 | -.02950 | -.00250 | -.00470 | .00000 | .76560 | .30710 | 2.49297 |
| .946 | 16.320 | .0200 | .87370 | .09566 | -.03260 | -.00510 | -.00500 | .00050 | .81160 | .33732 | 2.40605 |
| .947 | 17.350 | .0300 | .92950 | .09599 | -.03460 | -.00910 | -.00390 | .01100 | .85850 | .36881 | 2.32778 |
| .947 | 19.630 | .0000 | 1.04630 | .09498 | -.03500 | -.00220 | .00040 | -.00020 | .95360 | .44086 | 2.16302 |
| GRADIENT | | .0000 | .06460 | -.00052 | -.00681 | -.00009 | -.00012 | -.00004 | .06271 | .00081 | .55412 |

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK029) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 278/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| .978 | -2.190 | .00000 | -20390 | .12470 | .08160 | -.00090 | .00040 | -.00080 | -.19900 | .13240 | -1.50301 |
| .978 | .110 | .00000 | -.05580 | .12295 | .06340 | -.00090 | .00010 | -.00070 | -.05610 | .12284 | -.45668 |
| .977 | 2.140 | .00000 | .07530 | .12088 | .04410 | -.00170 | -.00010 | -.00070 | .07070 | .12361 | .57197 |
| .978 | 4.390 | .00000 | .22280 | .11832 | .02390 | .00170 | .00000 | -.00080 | .21310 | .13503 | 1.57820 |
| .978 | 6.620 | .00000 | .35410 | .11596 | .00580 | -.00010 | -.00040 | -.00100 | .33840 | .15601 | 2.16911 |
| .978 | 8.810 | .00000 | .49600 | .11455 | -.00890 | .00060 | -.00070 | -.00100 | .46250 | .18763 | 2.46545 |
| .976 | 10.960 | .00000 | .60260 | .11440 | -.02080 | .00040 | -.00130 | -.00140 | .56990 | .22688 | 2.51144 |
| .977 | 11.970 | .00000 | .66290 | .11442 | -.02560 | .00040 | -.00040 | -.00110 | .62480 | .24942 | 2.50504 |
| .977 | 13.080 | .00000 | .72510 | .11516 | -.03170 | -.00040 | -.00090 | -.00060 | .68020 | .27627 | 2.46208 |
| .977 | 14.130 | .00000 | .78480 | .11486 | -.03590 | -.00190 | -.00070 | -.00040 | .73300 | .30297 | 2.41936 |
| .978 | 15.190 | .00000 | .84260 | .11481 | -.03660 | .00030 | -.00110 | -.00090 | .78310 | .33158 | 2.36174 |
| .977 | 16.290 | .00000 | .89990 | .11538 | -.04100 | -.00150 | -.00100 | -.00100 | .83120 | .36314 | 2.28892 |
| .978 | 17.330 | .00000 | .95940 | .11570 | -.04280 | -.00280 | .00020 | -.00090 | .88140 | .39523 | 2.22447 |
| .977 | 19.530 | .00000 | 1.08120 | .11503 | -.05550 | -.00220 | .00010 | -.00020 | .98050 | .46986 | 2.08680 |
| | GRADIENT | .00000 | .06482 | -.00097 | -.00883 | .00032 | -.00006 | .00000 | .06261 | .00039 | .47162 |

REFERENCE DATA

MACH = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.000 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 192/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| 1.198 | -2.190 | .0000 | -1.1730 | .14840 | .07750 | -.00090 | .00130 | -.00090 | -.16720 | .15490 | -1.07939 |
| 1.198 | .060 | .0000 | -.03450 | .14705 | .04550 | -.00070 | .00060 | -.00020 | -.03470 | .14702 | -.23602 |
| 1.196 | 2.090 | .0000 | .09430 | .14635 | .01850 | .00250 | .00110 | -.00040 | .08890 | .14970 | .59385 |
| 1.198 | 4.330 | .0100 | .22900 | .14491 | -.00510 | -.00490 | -.00020 | -.00010 | .21740 | .16179 | 1.34375 |
| 1.198 | 6.530 | .0000 | .35560 | .14283 | -.02530 | .00140 | .00080 | .00010 | .33710 | .18234 | 1.84871 |
| 1.197 | 8.720 | .0100 | .47290 | .13994 | -.03710 | -.00460 | -.00050 | .00000 | .44620 | .20992 | 2.12559 |
| 1.197 | 10.880 | .0000 | .59150 | .13554 | -.04450 | -.00040 | -.00030 | -.00090 | .55530 | .24475 | 2.25684 |
| 1.197 | 11.850 | .0000 | .64480 | .13476 | -.04920 | -.00250 | -.00080 | -.00090 | .60340 | .26430 | 2.28303 |
| 1.198 | 13.180 | .0000 | .71990 | .13458 | -.05670 | .00040 | -.00050 | -.00150 | .67010 | .29516 | 2.27031 |
| 1.199 | 13.970 | .0000 | .75920 | .13399 | -.06140 | .00010 | -.00030 | -.00120 | .70430 | .31331 | 2.24795 |
| 1.198 | 15.040 | .0000 | .81970 | .13264 | -.06510 | -.00120 | .00030 | -.00050 | .75720 | .34080 | 2.22181 |
| 1.198 | 16.150 | .0000 | .87700 | .13269 | -.07020 | -.00180 | .00000 | -.00080 | .80550 | .37139 | 2.16865 |
| 1.198 | 17.150 | .0000 | .93010 | .13293 | -.07640 | -.00190 | .00010 | -.00060 | .84950 | .40128 | 2.11697 |
| 1.196 | 19.400 | .0000 | 1.04200 | .13267 | -.08220 | .00340 | .00050 | -.00110 | .93870 | .47125 | 1.99194 |
| | GRADIENT | .00140 | .06182 | -.00052 | -.01273 | -.00042 | -.00019 | .00010 | .05916 | .00108 | .37494 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 8.000 ELEVON = .000
 ALLRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 93/ C RN/L = 8.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|---------|---------|--------|---------|---------|---------|--------|---------|
| .582 | .090 | .0000 | -.04660 | .06478 | .03270 | .00180 | -.00010 | -.00210 | -.04670 | .06471 | -.72172 |
| .588 | 2.380 | .0000 | .06790 | .06081 | .03370 | .00300 | .00000 | -.00200 | .00530 | .06358 | 1.02710 |
| .588 | 4.750 | .0000 | .17310 | .05300 | .03130 | .00550 | -.00100 | -.00160 | .16810 | .06715 | 2.50327 |
| .599 | 6.930 | .0000 | .29340 | .04045 | .03050 | .00440 | -.00090 | -.00230 | .28640 | .07556 | 3.79061 |
| .599 | 9.210 | .0000 | .40920 | .02516 | .02750 | .00540 | -.00100 | -.00250 | .39990 | .09033 | 4.42712 |
| .598 | 11.370 | .0000 | .52270 | .01011 | .02870 | .00500 | -.00150 | -.00240 | .51040 | .11296 | 4.51846 |
| .598 | 12.320 | .0000 | .58320 | .00360 | .02880 | .00580 | -.00090 | -.00250 | .56890 | .12796 | 4.44608 |
| .598 | 13.470 | .0000 | .65090 | .00399 | .02530 | .00310 | .00000 | -.00270 | .63270 | .15258 | 4.14665 |
| .597 | 14.570 | -.01000 | .71170 | .00147 | .02210 | .00520 | -.00030 | -.00100 | .68950 | .18046 | 3.81525 |
| .598 | 15.590 | .00000 | .77000 | .00245 | .02090 | .00540 | -.00070 | -.00080 | .74100 | .20930 | 3.54039 |
| .599 | 16.760 | -.01000 | .83050 | .00400 | .01680 | .00720 | -.00120 | -.00010 | .79410 | .24332 | 3.26366 |
| .598 | 17.750 | .00000 | .87540 | .00612 | .01680 | .00440 | -.00040 | .00000 | .83190 | .27271 | 3.05053 |
| .597 | 20.130 | .00000 | 1.04730 | .00995 | -.00110 | .00280 | -.00040 | .00270 | .97990 | .36978 | 2.64994 |
| | GRADIENT | .00000 | .04713 | -.00253 | -.00030 | .00080 | -.00019 | .00011 | .04608 | .00053 | .69166 |

RUN NO. 56/ 0 RN/L = 7.43 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .900 | .300 | .0000 | -.02260 | .08064 | .03640 | -.00410 | .00090 | -.00080 | -.02310 | .08052 | -.28688 |
| .900 | 2.380 | .0000 | .09310 | .08354 | .02660 | -.00350 | .00060 | -.00120 | .09570 | .09459 | 1.13140 |
| .901 | 4.920 | .01000 | .22910 | .07373 | .02650 | -.00470 | .00060 | -.00080 | .22150 | .09809 | 2.25816 |
| .900 | 7.040 | .01000 | .32990 | .07665 | .02620 | -.00410 | -.00050 | -.00210 | .31800 | .11651 | 2.72949 |
| .900 | 9.340 | .01000 | .44960 | .07372 | .02370 | -.00300 | -.00040 | -.00260 | .43170 | .14571 | 2.96274 |
| .900 | 11.590 | .01000 | .56250 | .07268 | .01670 | -.00490 | .00010 | -.00130 | .53650 | .18421 | 2.91246 |
| .900 | 12.550 | .01000 | .61220 | .07292 | .01290 | -.00550 | .00020 | -.00090 | .58170 | .20420 | 2.84863 |
| .900 | GRADIENT | .00223 | .05436 | -.00042 | -.00207 | -.00014 | -.00006 | .00001 | .05282 | .00386 | .54697 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK032) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

3.500 ELEVON = .000
 2.000 BETA = .000
 1.000 SPOBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 44/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|-------|---------|---------|---------|---------|---------|--------|---------|---------|----------|
| .597 | -2.210 | .0000 | -.16400 | .06364 | .03600 | -.00630 | .00160 | .00500 | -.16140 | .06992 | -2.30846 |
| .597 | .010 | .0000 | -.04570 | .06503 | .03580 | -.00280 | .00090 | .00500 | -.04570 | .06502 | -.70284 |
| .597 | 2.000 | .0000 | .04050 | .06253 | .03400 | -.00490 | .00100 | .00540 | .03830 | .06391 | .59932 |
| .597 | 4.250 | .0000 | .15780 | .05506 | .03310 | -.00610 | .00110 | .00530 | .15330 | .06660 | 2.30170 |
| .597 | 6.310 | .0000 | .25230 | .04517 | .02990 | -.00610 | .00100 | .00550 | .24580 | .07263 | 3.38446 |
| .597 | 8.480 | .0000 | .36810 | .03200 | .02790 | -.00690 | .00040 | .00530 | .35930 | .08593 | 4.18123 |
| .596 | 10.490 | .0000 | .47130 | .01885 | .03060 | -.00610 | .00110 | .00520 | .45990 | .10434 | 4.40763 |
| .597 | 11.440 | .0000 | .52970 | .01210 | .02950 | -.00500 | .00050 | .00510 | .51680 | .11692 | 4.42007 |
| .596 | 12.800 | .0000 | .60870 | .01154 | .02380 | -.01100 | .00250 | .00610 | .59100 | .14611 | 4.04490 |
| .597 | 13.520 | .0000 | .64580 | .01365 | .02080 | -.01090 | .00210 | .00650 | .62470 | .16426 | 3.90312 |
| .598 | 14.620 | .0000 | .71090 | .01420 | .01610 | -.01040 | .00150 | .00720 | .68420 | .19315 | 3.54230 |
| .597 | 15.570 | .0000 | .77610 | .01393 | .01390 | -.00710 | .00050 | .00700 | .74390 | .22174 | 3.35489 |
| .597 | 16.560 | .0000 | .82780 | .01603 | .01010 | -.00300 | .00030 | .00540 | .78890 | .25130 | 3.13923 |
| .597 | 18.720 | .0000 | .95430 | .02102 | -.00270 | -.00170 | -.00020 | .00230 | .89700 | .32618 | 2.74998 |
| | GRADIENT | .0000 | .04925 | -.00132 | -.00049 | -.00026 | -.00007 | .00005 | .04815 | -.00051 | .70853 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK033) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 132/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|-------|----------|---------|---------|---------|---------|--------|---------|---------|----------|
| .597 | -2.250 | .0000 | -1.16280 | .06238 | .04250 | -.00520 | .00230 | .00550 | -.16020 | .06872 | -2.33108 |
| .597 | -.040 | .0000 | -.06330 | .06430 | .04020 | -.00730 | .00210 | .00640 | -.06320 | .06434 | -.98222 |
| .597 | 4.70 | .0000 | -.03750 | .06385 | .03940 | -.00430 | .00250 | .00670 | -.03800 | .06354 | -.59805 |
| .596 | 1.980 | .0000 | .03000 | .06195 | .03830 | -.00590 | .00180 | .00660 | .02780 | .06295 | .44162 |
| .598 | 4.300 | .0000 | .14840 | .05400 | .03920 | -.00490 | .00200 | .00700 | .14390 | .06497 | 2.21470 |
| .597 | 6.510 | .0000 | .25140 | .04365 | .03460 | -.00340 | .00190 | .00730 | .24480 | .07187 | 3.40608 |
| .597 | 8.650 | .0000 | .37040 | .02894 | .03270 | -.00450 | .00210 | .00660 | .36180 | .08432 | 4.29088 |
| .597 | 10.650 | .0000 | .47000 | .01652 | .03640 | -.00430 | .00130 | .00590 | .45890 | .10310 | 4.45120 |
| .597 | 11.580 | .0000 | .51900 | .01073 | .03330 | -.00710 | .00080 | .00670 | .50630 | .11459 | 4.41437 |
| .597 | 12.960 | .0000 | .60130 | .00404 | .03500 | -.00770 | .00090 | .00670 | .58510 | .13879 | 4.21569 |
| .597 | 13.680 | .0000 | .63680 | .00565 | .03080 | -.00880 | .00270 | .00710 | .61740 | .15609 | 3.95535 |
| .597 | 14.730 | .0000 | .70750 | .00640 | .02640 | -.00710 | .00120 | .00780 | .68260 | .18608 | 3.66828 |
| .597 | 15.920 | .0000 | .76970 | .00704 | .02180 | -.00310 | .00120 | .00810 | .73860 | .21661 | 3.40988 |
| .596 | 16.800 | .0000 | .81890 | .00978 | .01630 | -.00640 | .00050 | .00740 | .78110 | .24605 | 3.17455 |
| .597 | 19.080 | .0000 | .96270 | .01409 | .00350 | -.00570 | .00090 | .00740 | .90520 | .32801 | 2.75966 |
| GRADIENT | | .0000 | .04742 | -.00133 | -.00067 | .00008 | -.00005 | .00009 | .04634 | -.00054 | .69656 |

RUN NO. 49/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|-------|----------|---------|---------|---------|---------|--------|---------|---------|----------|
| .896 | -2.290 | .0000 | -1.18920 | .08040 | .05420 | -.00830 | .00400 | .00540 | -.18480 | .08786 | -2.10345 |
| .896 | -.030 | .0000 | -.04790 | .08135 | .04210 | -.00900 | .00350 | .00490 | -.04780 | .08138 | -.58740 |
| .896 | 2.010 | .0000 | .06870 | .08091 | .03670 | -.00830 | .00310 | .00460 | .06590 | .08327 | .79140 |
| .896 | 4.340 | .0000 | .19990 | .07902 | .02870 | -.00670 | .00280 | .00360 | .19330 | .09392 | 2.05812 |
| .897 | 6.450 | .0000 | .30090 | .07739 | .03030 | -.00620 | .00250 | .00380 | .29030 | .11070 | 2.62235 |
| .896 | 8.660 | .0000 | .40360 | .07568 | .02750 | -.00580 | .00070 | .00270 | .39760 | .13559 | 2.85967 |
| .896 | 10.770 | .0000 | .50790 | .07679 | .02640 | -.00600 | .00130 | .00330 | .48460 | .17035 | 2.84478 |
| .896 | 11.730 | .0000 | .59970 | .07698 | .01690 | -.00440 | .00100 | .00390 | .53230 | .18906 | 2.81549 |
| .897 | 13.140 | .0000 | .63090 | .07835 | .00870 | -.00230 | .00040 | .00410 | .59650 | .21972 | 2.71480 |
| .896 | 14.890 | .0000 | .67440 | .07843 | .00510 | -.00220 | .00010 | .00470 | .63590 | .23770 | 2.67523 |
| .897 | 16.010 | .0000 | .72640 | .07888 | .00050 | -.00050 | .00000 | .00450 | .68170 | .26289 | 2.59310 |
| .896 | 17.010 | .0000 | .78560 | .07904 | -.00200 | -.00100 | .00020 | .00540 | .73330 | .29265 | 2.50575 |
| .897 | 19.010 | .0000 | .85200 | .07879 | -.00440 | -.00090 | .00000 | .00580 | .77250 | .31874 | 2.42364 |
| .897 | 19.310 | .0000 | .94500 | .07939 | -.00190 | -.00340 | .00050 | .00640 | .86550 | .38742 | 2.23404 |
| GRADIENT | | .0000 | .05841 | -.00021 | -.00387 | .00025 | -.00018 | .00026 | .05691 | -.00093 | .63164 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK033) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILIRON = 2.000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 188/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| .947 | -2.120 | .0000 | -20210 | .10364 | -.07680 | -.00960 | .00390 | .00700 | -.19810 | .11105 | -1.78396 |
| .948 | .210 | .0000 | -.05530 | .10381 | .05720 | -.00920 | .00350 | .00670 | -.05570 | .10361 | -.53761 |
| .948 | 2.220 | .0000 | .07510 | .10298 | .03930 | -.00890 | .00290 | .00660 | .07100 | .10581 | .67100 |
| .948 | 4.460 | .0000 | .21810 | .10059 | .01880 | -.00820 | .00300 | .00630 | .20970 | .11725 | 1.78855 |
| .947 | 6.710 | .0000 | .35400 | .09650 | .00500 | -.00810 | .00300 | .00570 | .34030 | .13730 | 2.47849 |
| .947 | 8.920 | .0000 | .47910 | .09321 | -.00970 | -.00720 | .00150 | .00530 | .45880 | .16637 | 2.75771 |
| .949 | 11.080 | .0000 | .59450 | .09320 | -.01630 | -.00340 | -.00070 | .00430 | .56550 | .20571 | 2.74897 |
| .947 | 12.010 | .0100 | .64360 | .09340 | -.01880 | -.00420 | -.00220 | .00490 | .61000 | .22528 | 2.70777 |
| .948 | 13.340 | .02000 | .71760 | .09460 | -.02430 | -.00440 | -.00350 | .00590 | .67640 | .25762 | 2.62559 |
| .948 | 14.190 | .02000 | .76490 | .09448 | -.02830 | -.00510 | -.00350 | .00600 | .71840 | .27910 | 2.57396 |
| .947 | 15.250 | .02000 | .81950 | .09340 | -.03020 | -.00520 | -.00460 | .00580 | .76610 | .30567 | 2.50634 |
| .948 | 16.380 | .02000 | .87650 | .09527 | -.03220 | -.00730 | -.00400 | .00640 | .81510 | .33917 | 2.40614 |
| .947 | 17.380 | .03000 | .93380 | .09520 | -.03670 | -.01310 | -.00270 | .00700 | .86270 | .36979 | 2.33297 |
| .947 | 19.640 | .00000 | 1.04510 | .09323 | -.03670 | -.00180 | -.00010 | .00640 | .95380 | .43941 | 2.17064 |
| .947 | GRADIENT | .00000 | .06394 | -.00046 | -.00882 | .00021 | -.00016 | -.00010 | .06206 | .00094 | .54799 |

RUN NO. 281/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| .978 | -2.130 | .0000 | -.19920 | .12480 | .08150 | -.00520 | .00270 | .00550 | -.19440 | .13212 | -1.47142 |
| .977 | .140 | .0000 | -.05430 | .12312 | .06240 | -.00410 | .00230 | .00570 | -.05460 | .12299 | -.44395 |
| .977 | 2.190 | .0000 | .07330 | .12143 | .04520 | -.00440 | .00180 | .00590 | .06860 | .12414 | .55259 |
| .978 | 4.430 | .0000 | .22130 | .11979 | .02150 | -.00400 | .00240 | .00540 | .21130 | .13653 | 1.54770 |
| .978 | 6.640 | .0000 | .35830 | .11553 | .00580 | -.00400 | .00270 | .00460 | .34240 | .15718 | 2.17841 |
| .978 | 8.850 | .0000 | .48540 | .11552 | -.00840 | -.00360 | .00130 | .00390 | .46290 | .18898 | 2.44951 |
| .977 | 10.980 | .0000 | .60360 | .11555 | -.02160 | -.00220 | .00010 | .00340 | .57050 | .22840 | 2.49781 |
| .978 | 11.970 | .00000 | .66240 | .11633 | -.02670 | -.00350 | .00010 | .00370 | .62380 | .25118 | 2.48346 |
| .977 | 13.070 | .00000 | .72740 | .11604 | -.03060 | -.00260 | .00080 | .00440 | .68230 | .27753 | 2.45848 |
| .978 | 14.170 | .00000 | .79050 | .11597 | -.03300 | -.0010 | .00020 | .00480 | .73810 | .30596 | 2.41244 |
| .978 | 15.210 | .00000 | .84910 | .11626 | -.03550 | .00020 | -.00120 | .00460 | .78890 | .33496 | 2.35524 |
| .978 | 16.320 | .00000 | .90580 | .11729 | -.04050 | -.00260 | -.00010 | .00430 | .83630 | .36710 | 2.27815 |
| .977 | 17.320 | .00000 | .95640 | .11649 | -.04400 | -.00440 | .00080 | .00430 | .87840 | .39594 | 2.21854 |
| .978 | 19.560 | .00000 | 1.09270 | .11586 | -.05720 | -.00410 | .00080 | .00560 | .99080 | .47500 | 2.08388 |
| .978 | GRADIENT | .00000 | .06393 | -.00077 | -.00908 | .00015 | -.00006 | -.00000 | .06169 | .00066 | .46254 |

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TABLULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 37

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK033) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 RREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 250/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|--------|---------|--------|---------|---------|---------|---------|---------|--------|----------|
| 1.047 | -2.150 | .00000 | -.20270 | .14775 | .08650 | -.00680 | .00260 | .00600 | -.19700 | .15525 | -1.26892 |
| 1.048 | .120 | .00000 | -.04760 | .14715 | .06180 | -.00500 | .00270 | .00620 | -.04800 | .14705 | -.32642 |
| 1.047 | 2.210 | .00000 | .09530 | .14953 | .03470 | -.00420 | .00240 | .00560 | .08950 | .15309 | .58461 |
| 1.048 | 4.250 | .00000 | .22730 | .15001 | .01080 | -.00320 | .00210 | .00530 | .21550 | .16644 | 1.29474 |
| 1.048 | 6.700 | .00000 | .37190 | .14799 | -.01020 | -.00470 | .00180 | .00470 | .35210 | .19037 | 1.84956 |
| 1.048 | 8.870 | .00000 | .49400 | .14465 | -.02270 | -.00360 | .00110 | .00400 | .46580 | .21909 | 2.12605 |
| 1.048 | 11.040 | .00000 | .61070 | .14166 | -.03000 | -.00250 | .00030 | .00370 | .57230 | .25598 | 2.23569 |
| 1.048 | 12.020 | .00000 | .66450 | .14061 | -.03580 | -.00250 | .00130 | .00380 | .62060 | .27591 | 2.24927 |
| 1.048 | 14.180 | .00000 | .72230 | .13927 | -.03840 | -.00280 | .00100 | .00380 | .67260 | .29771 | 2.25922 |
| 1.047 | 15.230 | .00000 | .78510 | .13962 | -.04410 | -.00340 | .00090 | .00390 | .72700 | .32769 | 2.21855 |
| 1.048 | 16.390 | .00000 | .84680 | .13958 | -.04690 | -.00110 | .00010 | .00370 | .78040 | .35713 | 2.18521 |
| 1.048 | 17.410 | .00000 | .92420 | .14048 | -.05960 | .00560 | -.00180 | .00110 | .84690 | .39556 | 2.14103 |
| 1.047 | 19.660 | .00000 | .99640 | .14089 | -.07170 | .00030 | -.00030 | .00410 | .90860 | .43257 | 2.10049 |
| | GRADIENT | .00000 | 1.11190 | .13974 | -.07600 | .00210 | -.00080 | .00420 | .99990 | .50568 | 1.97734 |
| | | .00000 | .06732 | .00043 | -.01193 | .00055 | -.00008 | -.00013 | .06460 | .00180 | .40433 |

(RUK034) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000
 AIRLON = 2.000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 198/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| 1.197 | -2.110 | .00000 | -.17800 | .14809 | .07770 | -.00530 | .00290 | .00510 | -.17240 | .15454 | -1.11555 |
| 1.197 | .150 | -.01000 | -.02790 | .14623 | .04530 | -.00070 | .00290 | .00460 | -.02840 | .14616 | -.19431 |
| 1.197 | 2.140 | .00000 | .09370 | .14527 | .01900 | -.00210 | .00190 | .00440 | .08820 | .14867 | .59327 |
| 1.197 | 4.260 | .00000 | .22070 | .14457 | -.00390 | -.00180 | .00120 | .00400 | .20930 | .16056 | 1.30352 |
| 1.197 | 6.590 | .00000 | .35480 | .14225 | -.02450 | -.00500 | .00030 | .00430 | .33610 | .18203 | 1.84642 |
| 1.198 | 8.780 | .00000 | .47190 | .13943 | -.03790 | -.00140 | .00090 | .00440 | .44510 | .20983 | 2.12127 |
| 1.197 | 10.910 | .01000 | .58830 | .13594 | -.04670 | -.00660 | -.00060 | .00390 | .55190 | .24483 | 2.25423 |
| 1.197 | 11.900 | .00000 | .64030 | .13476 | -.05020 | -.00190 | .00000 | .00330 | .59870 | .26390 | 2.26969 |
| 1.197 | 13.250 | .01000 | .71880 | .13437 | -.05730 | -.00360 | -.00110 | .00270 | .66880 | .29554 | 2.26296 |
| 1.197 | 14.060 | .00000 | .78210 | .13378 | -.06010 | -.00170 | -.00030 | .00320 | .70680 | .31492 | 2.24441 |
| 1.198 | 15.130 | .00000 | .81680 | .13317 | -.06650 | -.00410 | .00000 | .00330 | .75370 | .34175 | 2.20543 |
| 1.198 | 16.240 | .00000 | .87590 | .13295 | -.07120 | -.00500 | -.00020 | .00340 | .80180 | .37204 | 2.15514 |
| 1.198 | 17.260 | .00000 | .92940 | .13277 | -.07610 | -.00280 | -.00020 | .00350 | .84820 | .40255 | 2.10706 |
| 1.198 | 19.480 | .00000 | 1.04100 | .13188 | -.08270 | .00100 | .00030 | .00330 | .93740 | .47148 | 1.98820 |
| | GRADIENT | .00043 | .06248 | -.00055 | -.01286 | .00044 | -.00029 | -.00017 | .05983 | .00094 | .38143 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK035) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

3.500 ELEVON = 10.000
 .000 BETA = .000
 1.000 SPDBRK = 25.000
 .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 45/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .597 | -2.160 | .00000 | .00600 | .07291 | -.04250 | -.00320 | -.00010 | .00210 | .00880 | .07263 | .12116 |
| .598 | .020 | .00000 | .10840 | .07390 | -.04400 | -.00520 | -.00050 | .00230 | .10830 | .07394 | 1.46474 |
| .597 | 2.010 | .00000 | .20200 | .07090 | -.04480 | -.00100 | .00010 | .00250 | .19930 | .07794 | 2.55705 |
| .597 | 4.260 | .00000 | .31900 | .06217 | -.04650 | -.00110 | .00000 | .00170 | .31350 | .08569 | 3.65835 |
| .597 | 6.340 | .00000 | .43510 | .05263 | -.05730 | .00050 | -.00060 | -.00100 | .42660 | .10036 | 4.25089 |
| .598 | 8.470 | .00000 | .55420 | .03886 | -.06100 | .00120 | -.00030 | -.00190 | .54240 | .12007 | 4.51755 |
| .598 | 10.500 | .00000 | .65810 | .02800 | -.06460 | .00000 | -.00110 | -.00100 | .64200 | .14746 | 4.29223 |
| .596 | 11.450 | .00000 | .72670 | .02111 | -.06520 | .00050 | -.00060 | -.00150 | .70800 | .16495 | 4.35371 |
| .597 | 13.510 | .00000 | .80040 | .01992 | -.07320 | -.00140 | -.00010 | -.00060 | .77600 | .19729 | 3.93321 |
| .597 | 14.500 | .00000 | .83290 | .02211 | -.07480 | -.00410 | .00090 | .00120 | .80460 | .21608 | 3.72369 |
| .597 | 15.620 | .00000 | .89010 | .02465 | -.07720 | .00050 | -.00040 | .00170 | .85550 | .24673 | 3.46738 |
| .598 | 16.620 | .00000 | .96140 | .02988 | -.08200 | .00100 | -.00100 | .00200 | .91790 | .28764 | 3.19115 |
| .597 | 18.790 | .00000 | 1.01050 | .03488 | -.08200 | .00190 | -.00110 | .00130 | .95830 | .32245 | 2.97194 |
| .597 | GRADIENT | .00000 | 1.14510 | .03691 | -.09410 | .00100 | -.00100 | -.00470 | 1.07210 | .40378 | 2.65516 |
| | | .00000 | .04861 | -.00167 | -.00060 | .00048 | .00004 | -.00005 | .04732 | .00204 | .55057 |

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK036) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L =
 AIRLON =
 GRIT =
 RUDDER =

4.500 ELEVON = 10.000
 .000 BETA = .000
 1.000 SPOBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 126/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|--------|--------|---------|--------|---------|
| .596 | -2.060 | .00000 | .01150 | .07298 | -.04680 | -.00240 | .00000 | .00020 | .01410 | .07252 | .19443 |
| .597 | .070 | .00000 | .11370 | .07331 | -.04810 | -.00260 | .00040 | .00030 | .11360 | .07345 | 1.54665 |
| .596 | 2.010 | .00000 | .21580 | .07010 | -.04930 | .00410 | .00050 | .00010 | .21320 | .07763 | 2.74651 |
| .597 | 4.410 | .00000 | .33100 | .06179 | -.05010 | .00050 | .00030 | .00010 | .32520 | .08706 | 3.73541 |
| .596 | 6.500 | .00000 | .44140 | .05034 | -.05350 | .00090 | .00000 | .00010 | .43290 | .09998 | 4.32968 |
| .596 | 8.650 | .00000 | .54820 | .03726 | -.05730 | .00180 | .00010 | .00000 | .53630 | .11928 | 4.49598 |
| .596 | 10.670 | .00000 | .65730 | .02456 | -.06210 | -.00230 | .00080 | .00030 | .64140 | .14584 | 4.39810 |
| .597 | 11.650 | .00000 | .71780 | .01817 | -.06190 | .00060 | .00080 | .00030 | .69930 | .16274 | 4.29696 |
| .597 | 12.770 | .00000 | .78560 | .01522 | -.06690 | .00010 | .00030 | .00100 | .76280 | .18849 | 4.04689 |
| .596 | 13.700 | .00000 | .84480 | .01642 | -.06730 | .00100 | .00010 | .00180 | .81690 | .21603 | 3.78135 |
| .597 | 14.810 | .00000 | .89910 | .01879 | -.07060 | .00080 | .00030 | .00220 | .86440 | .24799 | 3.48564 |
| .596 | 15.900 | .00000 | .95670 | .02447 | -.07300 | .00060 | .00090 | .00260 | .91340 | .28563 | 3.19784 |
| .597 | 16.880 | .00000 | 1.00410 | .02954 | -.07650 | .00070 | .00100 | .00150 | .95220 | .31983 | 2.97724 |
| .597 | 19.110 | .00000 | 1.15870 | .03032 | -.09140 | .00190 | .00010 | .00070 | 1.08490 | .40799 | 2.65915 |
| .597 | GRADIENT | .00000 | .04965 | -.00175 | -.00052 | .00059 | .00004 | .00006 | .04835 | .00226 | .55165 |

RUN NO. 48/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|--------|---------|---------|--------|--------|---------|--------|---------|
| .896 | -2.240 | .00000 | -.08650 | .08662 | -.01320 | -.00340 | .00070 | .00040 | -.08300 | .08993 | -.92289 |
| .896 | .050 | .00000 | .05690 | .08770 | -.02500 | -.01100 | .00340 | .00020 | .05680 | .08775 | .64730 |
| .896 | 2.100 | .00000 | .18980 | .08944 | -.04240 | .00220 | .00020 | .00070 | .18940 | .09530 | 1.94546 |
| .897 | 4.430 | .00000 | .33900 | .08730 | -.05070 | .00010 | .00010 | .00040 | .33120 | .11322 | 2.92518 |
| .896 | 6.530 | .00000 | .45890 | .08689 | -.07450 | .00390 | .00000 | .00050 | .44600 | .13851 | 3.21989 |
| .896 | 8.750 | .00000 | .57400 | .08549 | -.07760 | .00250 | .00060 | .00030 | .55430 | .17181 | 3.22617 |
| .896 | 10.850 | .00000 | .67880 | .08846 | -.08650 | .00000 | .00090 | .00000 | .65000 | .21465 | 3.02812 |
| .897 | 11.820 | .00000 | .73480 | .09019 | -.09170 | .00110 | .00060 | .00020 | .70070 | .23979 | 2.93435 |
| .896 | 13.260 | .00000 | .81640 | .09286 | -.09890 | .00220 | .00060 | .00020 | .77330 | .27764 | 2.78524 |
| .896 | 13.960 | .00000 | .85490 | .09430 | -.10310 | .00280 | .00070 | .00050 | .80690 | .29775 | 2.70995 |
| .896 | 14.990 | .00000 | .90880 | .09714 | -.11170 | .00010 | .00080 | .00020 | .85270 | .32890 | 2.59261 |
| .896 | 16.090 | .00000 | .96710 | .09850 | -.11290 | .00050 | .00030 | .00100 | .90190 | .36267 | 2.48683 |
| .897 | 17.150 | .00000 | 1.01840 | .09860 | -.11190 | .00180 | .00040 | .00180 | .94400 | .39452 | 2.39281 |
| .896 | 19.350 | .00000 | 1.10100 | .09902 | -.10150 | .00460 | .00040 | .00180 | 1.00590 | .45823 | 2.19519 |
| .896 | GRADIENT | .00000 | .06384 | .00012 | -.00724 | .00014 | .00012 | .00013 | .06216 | .00352 | .58153 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK036) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AIRLON =
 GRIT =
 RUDDER =

ELEVON = 10.000
 BETA = .000
 SPDBRK = 25.000
 BDFLAP = .000

RUN NO. 187/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .948 | -2.100 | .00000 | -.08720 | .11449 | -.00630 | -.00220 | .00050 | .00000 | -.08290 | .11761 | -.70488 |
| .947 | .190 | .00000 | .05970 | .11420 | -.02860 | -.00070 | .00040 | -.00040 | .05940 | .11440 | .51924 |
| .948 | 2.260 | .00000 | .19980 | .11415 | -.04910 | -.00160 | .00010 | -.00050 | .19520 | .12194 | 1.60079 |
| .948 | 4.500 | .00000 | .35300 | .11222 | -.07230 | -.00200 | .00000 | -.00090 | .34310 | .13957 | 2.45826 |
| .947 | 6.740 | .00000 | .48980 | .10934 | -.09280 | -.00110 | .00000 | -.00100 | .47360 | .16607 | 2.85182 |
| .948 | 8.950 | .00000 | .61890 | .10550 | -.10450 | -.00170 | -.00030 | -.00070 | .59480 | .20048 | 2.96682 |
| .947 | 11.120 | .01000 | .74050 | .10640 | -.11660 | -.00150 | -.00240 | -.00110 | .70600 | .24722 | 2.85577 |
| .947 | 12.070 | .01000 | .79470 | .10632 | -.12130 | -.00320 | -.00340 | -.00200 | .75490 | .27015 | 2.79441 |
| .948 | 13.360 | .02000 | .86670 | .10848 | -.12710 | -.00380 | -.00400 | -.00060 | .81820 | .30581 | 2.67950 |
| .947 | 14.240 | .02000 | .92190 | .10934 | -.12930 | -.00410 | -.00460 | -.00120 | .86670 | .33275 | 2.60463 |
| .948 | 15.240 | .03000 | .96860 | .11127 | -.13140 | -.00460 | -.00450 | -.00190 | .90520 | .36197 | 2.50079 |
| .947 | 16.360 | .03000 | 1.02450 | .11361 | -.13440 | -.00680 | -.00510 | -.00200 | .95110 | .39761 | 2.39204 |
| .947 | 17.410 | .03000 | 1.07740 | .11467 | -.13630 | -.00890 | -.00390 | -.00200 | .99370 | .43178 | 2.30139 |
| .947 | 19.700 | .00000 | 1.18510 | .11636 | -.12420 | .00190 | -.00070 | -.00040 | 1.07650 | .50904 | 2.11476 |
| | GRADIENT | .00000 | .06678 | -.00031 | -.00999 | -.00001 | -.00008 | -.00013 | .06464 | .00334 | .48331 |

RUN NO. 290/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .976 | -2.080 | .00000 | -.02860 | .13479 | -.00470 | -.00110 | .00050 | .00000 | -.08360 | .13792 | -.60616 |
| .978 | .200 | .00000 | .06560 | .13441 | -.02520 | .00000 | -.00070 | -.00010 | .06510 | .13464 | .48352 |
| .976 | 2.280 | .00000 | .20100 | .13271 | -.04540 | -.00090 | .00020 | .00000 | .19550 | .14060 | 1.59046 |
| .977 | 4.490 | .00000 | .34690 | .13173 | -.07020 | -.00110 | .00000 | -.00050 | .33550 | .15848 | 2.11695 |
| .977 | 6.740 | .00000 | .49790 | .12959 | -.09040 | -.00080 | -.00010 | -.00080 | .46930 | .18606 | 2.52236 |
| .977 | 8.940 | .00000 | .61950 | .12758 | -.10690 | -.00100 | -.00100 | -.00130 | .59210 | .22230 | 2.66351 |
| .977 | 11.110 | .00000 | .74760 | .12717 | -.11800 | -.00130 | -.00040 | -.00060 | .70910 | .26884 | 2.63759 |
| .978 | 12.080 | .00000 | .80760 | .12874 | -.12630 | -.00050 | -.00090 | -.00080 | .76280 | .29490 | 2.58663 |
| .978 | 14.250 | .00000 | .86050 | .12901 | -.13030 | -.00160 | -.00090 | -.00040 | .80950 | .31899 | 2.53759 |
| .977 | 15.310 | .00000 | .93110 | .13045 | -.13410 | -.00060 | -.00060 | -.00050 | .87030 | .35563 | 2.44721 |
| .977 | 16.440 | .00000 | .99040 | .13130 | -.13750 | -.00150 | -.00120 | -.00020 | .92050 | .38815 | 2.37152 |
| .977 | 17.480 | .00000 | 1.04520 | .13383 | -.13930 | -.00260 | .00000 | -.00020 | .96450 | .42416 | 2.27390 |
| .977 | 19.720 | .00000 | 1.10350 | .13433 | -.14250 | -.00110 | .00000 | -.00040 | 1.01210 | .45959 | 2.20219 |
| .976 | GRADIENT | .00000 | 1.22740 | .13581 | -.14820 | -.00380 | .00190 | -.00130 | 1.10950 | .54200 | 2.04705 |
| | | .00000 | .06618 | -.00050 | -.00934 | -.00004 | -.00009 | -.00006 | .06369 | .00309 | .41663 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK036) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 248/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CO | L/D |
|-------|----------|--------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| 1.048 | -2.140 | .0000 | -.09170 | .15874 | .00460 | -.00130 | .00070 | .00000 | -.08560 | .16205 | -5.2822 |
| 1.047 | .130 | .0000 | .06170 | .15718 | -.02190 | -.00160 | .00070 | .00000 | .06130 | .15732 | -.39365 |
| 1.047 | 2.180 | .0000 | .20280 | .15863 | -.04770 | -.00040 | .00040 | .00000 | .19660 | .16623 | 1.18270 |
| 1.048 | 4.260 | .0000 | .33720 | .15959 | -.07240 | -.00100 | .00020 | .00000 | .32440 | .18420 | 1.76116 |
| 1.046 | 6.650 | .0000 | .48870 | .15872 | -.09850 | -.00030 | .00000 | .00010 | .46700 | .21425 | 2.17974 |
| 1.047 | 8.880 | .0000 | .61980 | .15619 | -.11240 | -.00090 | -.00050 | -.00020 | .58820 | .24999 | 2.35286 |
| 1.047 | 11.050 | .0000 | .74120 | .15276 | -.12180 | .00010 | -.00060 | -.00090 | .69810 | .29199 | 2.39083 |
| 1.046 | 12.020 | .0000 | .79470 | .15265 | -.12720 | .00010 | -.00100 | -.00080 | .74550 | .31480 | 2.36816 |
| 1.047 | 12.960 | .0000 | .84850 | .15221 | -.12990 | .00000 | -.00130 | -.00070 | .79270 | .33863 | 2.34093 |
| 1.046 | 14.230 | .0000 | .92220 | .15364 | -.13650 | -.00110 | -.00090 | -.00050 | .85610 | .37562 | 2.27919 |
| 1.047 | 15.240 | .0000 | .98290 | .15420 | -.14170 | -.00140 | -.00060 | -.00060 | .90780 | .40715 | 2.22967 |
| 1.047 | 16.390 | .0000 | 1.05530 | .15682 | -.15300 | -.00100 | -.00040 | -.00070 | .96840 | .44727 | 2.16515 |
| 1.047 | 17.430 | .0000 | 1.11600 | .15611 | -.15870 | .00050 | -.00050 | -.00030 | 1.01800 | .48323 | 2.10666 |
| 1.047 | 19.670 | .0000 | 1.23720 | .15935 | -.16380 | .00040 | -.00060 | -.00010 | 1.11130 | .56650 | 1.98171 |
| 1.047 | GRADIENT | .00000 | .06720 | .00018 | -.01208 | .00010 | -.00008 | .00000 | .06426 | .00349 | .36100 |

RUN NO. 294/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CO | L/D |
|-------|----------|--------|---------|--------|---------|---------|---------|---------|---------|--------|----------|
| 1.117 | -2.140 | .0000 | -.09760 | .15677 | .01110 | -.00210 | .00070 | -.00030 | -.09170 | .16031 | -5.7203 |
| 1.117 | .180 | .0000 | .06230 | .15641 | -.02250 | -.00410 | .00040 | -.00050 | .06180 | .15660 | .39462 |
| 1.117 | 2.210 | .0000 | .19830 | .15697 | -.04870 | -.00410 | .00000 | -.00030 | .19210 | .16450 | 1.16778 |
| 1.117 | 4.480 | .0000 | .34210 | .15766 | -.07570 | -.00270 | .00050 | -.00040 | .32870 | .18390 | 1.78738 |
| 1.117 | 6.710 | .0000 | .47850 | .15688 | -.09900 | -.00350 | .00010 | -.00060 | .45690 | .21172 | 2.115809 |
| 1.118 | 8.920 | .0000 | .60160 | .15413 | -.11450 | -.00360 | -.00100 | -.00080 | .57040 | .24555 | 2.32298 |
| 1.116 | 11.100 | .0100 | .72030 | .14957 | -.12190 | -.00460 | -.00030 | -.00050 | .67800 | .28545 | 2.37523 |
| 1.117 | 12.070 | .0000 | .77260 | .14885 | -.12480 | -.00120 | -.00080 | -.00160 | .72440 | .30712 | 2.35872 |
| 1.117 | 12.930 | .0000 | .82790 | .14857 | -.12840 | -.00130 | -.00100 | -.00170 | .77330 | .33086 | 2.33721 |
| 1.117 | 14.240 | .0000 | .89680 | .14870 | -.13420 | .00050 | .00000 | -.00060 | .83270 | .36473 | 2.28306 |
| 1.118 | 15.290 | .0000 | .97200 | .15034 | -.14370 | -.00340 | -.00010 | -.00030 | .89850 | .40150 | 2.23787 |
| 1.118 | 16.460 | .0100 | 1.03510 | .15149 | -.15060 | -.00370 | -.00080 | -.00070 | .94970 | .43857 | 2.16543 |
| 1.117 | 17.420 | .0000 | 1.08510 | .15332 | -.15360 | -.00160 | -.00020 | -.00050 | .98940 | .47114 | 2.10002 |
| 1.117 | 19.720 | .0000 | 1.20360 | .15449 | -.15830 | -.00130 | -.00090 | -.00040 | 1.08110 | .55162 | 1.95986 |
| 1.117 | GRADIENT | .00000 | .06648 | .00015 | -.01310 | -.00008 | -.00004 | -.00001 | .06357 | .00358 | .35868 |

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TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK037)

(24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

4.500 ELEVON = 10.000
 .000 BETA = .000
 1.000 SPDBRK = 25.000
 .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 279/ 0 RN/L = 4.50 GRADIENT INTERVAL = .5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .977 | -2.170 | .00000 | -.08740 | .13536 | -.00620 | -.00120 | .00080 | -.00050 | -.08227 | .13857 | -.59319 |
| .977 | .110 | .00000 | .06010 | .13514 | -.02710 | -.00230 | .00070 | -.00080 | .05980 | .13526 | .44213 |
| .977 | 2.170 | .00000 | .20020 | .13371 | -.04570 | .00000 | .00060 | -.00100 | .19500 | .14119 | 1.38107 |
| .978 | 4.410 | .00000 | .34750 | .13264 | -.07100 | -.00100 | .00020 | -.00110 | .33620 | .15897 | 2.11490 |
| .978 | 6.640 | .00000 | .46910 | .13074 | -.09220 | -.00020 | .00000 | -.00140 | .47070 | .18642 | 2.52497 |
| .977 | 8.840 | .00000 | .62230 | .12798 | -.10760 | .00030 | -.00080 | -.00160 | .59520 | .22209 | 2.67997 |
| .977 | 10.990 | .00000 | .74580 | .12756 | -.11970 | .00110 | -.00090 | -.00150 | .70780 | .26740 | 2.64699 |
| .976 | 12.000 | .00000 | .80720 | .12844 | -.12740 | .00140 | -.00050 | -.00130 | .76280 | .29346 | 2.59934 |
| .978 | 13.120 | .00000 | .87490 | .12940 | -.13220 | -.00190 | -.00040 | -.00100 | .82260 | .32462 | 2.53406 |
| .978 | 14.160 | .00000 | .93250 | .13114 | -.13610 | -.00100 | -.00060 | -.00100 | .87210 | .35527 | 2.45473 |
| .978 | 15.240 | .00000 | .99460 | .13198 | -.13730 | .00230 | -.00120 | -.00050 | .92490 | .38878 | 2.37897 |
| .978 | 16.380 | .00000 | 1.05080 | .13443 | -.13920 | -.00360 | -.00010 | -.00010 | .97030 | .42531 | 2.28141 |
| .978 | 17.370 | .00000 | 1.10290 | .13494 | -.14280 | -.00130 | .00020 | -.00070 | 1.01220 | .45805 | 2.20982 |
| .978 | 19.610 | .00000 | 1.22480 | .13722 | -.15030 | -.00480 | .00120 | -.00090 | 1.10760 | .54032 | 2.04988 |
| | GRADIENT | .00000 | .06626 | -.00044 | -.00982 | .00013 | -.00009 | -.00009 | .06377 | .00307 | .41563 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 193/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|--------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| 1.197 | -2.180 | .00000 | -.14150 | .14814 | .04940 | -.00310 | .00080 | .00060 | -.13580 | .15342 | -.88516 |
| 1.198 | .060 | .00000 | .05480 | .15626 | -.02170 | -.00130 | .00080 | -.00020 | .05460 | .15632 | .34929 |
| 1.198 | 1.210 | .00000 | .11350 | .14930 | -.01690 | .00020 | .00070 | .00080 | .11030 | .15166 | .72727 |
| 1.198 | 2.110 | .00000 | .18450 | .15469 | -.04840 | -.00030 | .00050 | .00010 | .17870 | .16138 | 1.10734 |
| 1.198 | 4.360 | .00000 | .31720 | .15375 | -.07350 | .00100 | .00060 | .00040 | .30460 | .17742 | 1.71683 |
| 1.197 | 6.540 | .00000 | .45170 | .15215 | -.09620 | -.00010 | .00070 | .00010 | .43140 | .20261 | 2.12924 |
| 1.198 | 8.740 | .00000 | .57230 | .14870 | -.11050 | -.00150 | .00060 | .00020 | .54300 | .23393 | 2.32116 |
| 1.193 | 10.900 | .00000 | .69070 | .14593 | -.12390 | -.00310 | .00000 | .00000 | .65060 | .27391 | 2.37527 |
| 1.197 | 11.840 | .00000 | .74650 | .14546 | -.12880 | -.00070 | .00010 | -.00130 | .70080 | .29553 | 2.37132 |
| 1.198 | 13.180 | .00000 | .82230 | .14543 | -.13460 | -.00210 | .00010 | -.00080 | .76750 | .32909 | 2.33217 |
| 1.197 | 14.030 | .00000 | .87290 | .14541 | -.13820 | -.00170 | -.00030 | -.00120 | .81150 | .35269 | 2.30089 |
| 1.198 | 15.060 | .00000 | .92930 | .14590 | -.14250 | -.00190 | -.00010 | -.00040 | .85850 | .38209 | 2.24686 |
| 1.198 | 16.190 | .00000 | .98430 | .14680 | -.14840 | -.00070 | .00040 | -.00070 | .90430 | .41542 | 2.17681 |
| 1.197 | 17.180 | .00000 | 1.03620 | .14748 | -.15160 | -.00020 | -.00020 | -.00080 | .94630 | .44697 | 2.11716 |
| 1.196 | 19.400 | .00000 | 1.14780 | .14932 | -.15940 | -.00340 | -.00070 | -.00060 | 1.03300 | .52210 | 1.97856 |
| | GRADIENT | .00000 | .06934 | .00059 | -.01823 | .00062 | -.00004 | -.00001 | .06673 | .00352 | .39572 |

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TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK039) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = 10.000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 46/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .597 | -2.160 | .00000 | .01480 | .07485 | -.05080 | -.00330 | .00040 | .00510 | .01760 | .07424 | .23707 |
| .596 | .000 | .00000 | .11940 | .07581 | -.05250 | -.00630 | .00020 | .00500 | .11930 | .07581 | 1.57367 |
| .597 | 1.990 | .00000 | .21350 | .07258 | -.05270 | -.00560 | -.00040 | .00520 | .21090 | .07995 | 2.63790 |
| .596 | 4.230 | .00000 | .32620 | .06401 | -.05380 | -.00200 | -.00030 | .00470 | .32060 | .08790 | 3.64748 |
| .597 | 6.340 | .00000 | .42720 | .05412 | -.05650 | -.00410 | -.00030 | .00490 | .41860 | .10096 | 4.14603 |
| .595 | 8.450 | .00000 | .53670 | .04097 | -.06160 | -.00470 | -.00050 | .00480 | .52480 | .11939 | 4.39563 |
| .596 | 10.480 | .00000 | .65060 | .02831 | -.06420 | -.00490 | -.00060 | .00580 | .63460 | .14618 | 4.34132 |
| .597 | 11.430 | .00000 | .71390 | .02214 | -.06470 | -.00550 | -.00110 | .00550 | .69530 | .16317 | 4.26107 |
| .596 | 12.810 | .00000 | .79940 | .01974 | -.06670 | -.00650 | .00100 | .00670 | .77510 | .19649 | 3.94472 |
| .596 | 13.510 | .00000 | .83240 | .02196 | -.07010 | -.00820 | .00080 | .00810 | .80430 | .21581 | 3.72683 |
| .596 | 14.490 | .00000 | .87670 | .02572 | -.07290 | -.00900 | .00000 | .00870 | .84230 | .24426 | 3.44835 |
| .596 | 15.580 | .00000 | .95100 | .02868 | -.07490 | -.00250 | -.00040 | .00740 | .90830 | .28305 | 3.20898 |
| .597 | 16.570 | .00000 | 1.00350 | .03415 | -.08340 | -.00090 | -.00040 | .00540 | .95210 | .31892 | 2.98542 |
| .595 | 18.790 | .00000 | 1.13700 | .03582 | -.09170 | -.00190 | -.00100 | .00150 | 1.06470 | .40014 | 2.66082 |
| | GRADIENT | .00000 | .04861 | -.00170 | -.00044 | .00018 | -.00013 | -.00005 | .04730 | .00214 | .53348 |

(RUK040) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AIRLON = 2.000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 133/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .597 | -2.200 | .00000 | .00480 | .07341 | -.04510 | -.00720 | .00100 | .00620 | .00760 | .07317 | .10387 |
| .597 | -.030 | .00000 | .11440 | .07420 | -.04680 | -.00380 | .00050 | .00620 | .11440 | .07426 | 1.54054 |
| .597 | 2.080 | .00000 | .21460 | .07039 | -.04710 | -.00320 | .00080 | .00640 | .21190 | .07813 | 2.71206 |
| .597 | 4.300 | .00000 | .32810 | .06185 | -.04780 | -.00190 | .00040 | .00610 | .32250 | .08628 | 3.73799 |
| .597 | 6.610 | .00000 | .44010 | .05108 | -.05360 | -.00020 | .00020 | .00590 | .43130 | .10140 | 4.25343 |
| .597 | 8.580 | .00000 | .54990 | .03892 | -.05800 | -.00510 | .00000 | .00610 | .53810 | .11963 | 4.49788 |
| .597 | 10.680 | .00000 | .66750 | .02433 | -.05940 | -.00370 | .00030 | .00670 | .65140 | .14761 | 4.41292 |
| .597 | 11.620 | .00000 | .71860 | .01915 | -.06060 | -.00470 | .00030 | .00690 | .70000 | .16350 | 4.28140 |
| .597 | 12.670 | .00000 | .78140 | .01552 | -.06240 | -.00320 | .00040 | .00730 | .75890 | .18653 | 4.06850 |
| .597 | 13.760 | .00000 | .85200 | .01780 | -.06620 | -.00730 | .00130 | .00920 | .82330 | .21994 | 3.74326 |
| .597 | 14.770 | .00000 | .89750 | .01923 | -.06680 | -.00150 | .00000 | .00930 | .86300 | .24740 | 3.48824 |
| .597 | 15.900 | .00000 | .95910 | .02445 | -.07040 | -.00240 | .00060 | .00810 | .86227 | .28627 | 3.19874 |
| .597 | 16.860 | .00000 | 1.00550 | .03027 | -.07530 | -.00520 | .00090 | .00710 | .91570 | .32050 | 2.97382 |
| .596 | 19.120 | .00000 | 1.15220 | .03124 | -.08790 | -.00130 | .00020 | .00550 | 1.07840 | .40692 | 2.65017 |
| | GRADIENT | .00000 | .04966 | -.00178 | -.00039 | .00077 | -.00007 | -.00001 | .04837 | .00200 | .56026 |

RUN NO. 47/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|--------|---------|---------|--------|--------|---------|--------|---------|
| .897 | -2.190 | .00000 | -.07620 | .08826 | -.01620 | -.00280 | .00010 | .00350 | -.07270 | .09111 | -.79796 |
| .896 | .060 | .00000 | .06490 | .08939 | -.02810 | -.00040 | .00060 | .00380 | .06480 | .08946 | .72436 |
| .897 | 2.100 | .00000 | .19010 | .08994 | -.04360 | -.00050 | .00030 | .00420 | .18670 | .09685 | 1.92781 |
| .896 | 4.420 | .00000 | .33610 | .08569 | -.06190 | -.00350 | .00030 | .00490 | .32820 | .11433 | 2.87068 |
| .896 | 6.530 | .00000 | .46100 | .08783 | -.07360 | -.00340 | .00060 | .00550 | .44800 | .13969 | 3.20718 |
| .896 | 8.750 | .00000 | .57690 | .08635 | -.07750 | -.00390 | .00080 | .00500 | .55700 | .17310 | 3.21770 |
| .896 | 10.870 | .00000 | .67850 | .08863 | -.08320 | -.00660 | .00100 | .00500 | .64960 | .21499 | 3.02151 |
| .896 | 11.820 | .00000 | .73090 | .09044 | -.08950 | -.00090 | .00130 | .00490 | .69680 | .23824 | 2.92480 |
| .897 | 13.240 | .00000 | .81220 | .09468 | -.10030 | .00070 | .00200 | .00470 | .76890 | .27818 | 2.76402 |
| .897 | 13.970 | .00000 | .85490 | .09665 | -.10780 | .00170 | .00240 | .00500 | .80610 | .30015 | 2.68564 |
| .897 | 14.980 | .00000 | .91210 | .09858 | -.11180 | .00070 | .00240 | .00410 | .85560 | .33099 | 2.58496 |
| .897 | 16.110 | .00000 | .96700 | .10003 | -.11510 | .00070 | .00210 | .00480 | .90120 | .36443 | 2.47292 |
| .896 | 17.140 | .00000 | 1.01290 | .09966 | -.11270 | .00030 | .00250 | .00480 | .93850 | .39371 | 2.38371 |
| .896 | 19.380 | .00000 | 1.10780 | .09550 | -.09890 | .00010 | .00110 | .00440 | 1.01200 | .46147 | 2.19301 |
| | GRADIENT | .00000 | .06229 | .00008 | -.00698 | -.00010 | .00001 | .00021 | .06057 | .00354 | .55760 |

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TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK040) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AIRLON = 2.000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 189/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CYL | CL | CD | L/D |
|----------|--------|--------|---------|---------|---------|---------|---------|--------|---------|--------|---------|
| .947 | -2.140 | .00000 | -.09140 | .11551 | -.00970 | -.00280 | -.00100 | .00590 | -.08700 | .11884 | -.73206 |
| .948 | .180 | .00000 | .06290 | .11594 | -.03060 | -.00140 | -.00100 | .00610 | .06250 | .11614 | .53816 |
| .947 | 2.200 | .00000 | .19970 | .11409 | -.05150 | -.00120 | -.00140 | .00680 | 1.9510 | .12167 | 1.60349 |
| .948 | 4.500 | .00000 | .35030 | .11313 | -.07650 | -.00010 | -.00100 | .00700 | .34040 | .14027 | 2.42683 |
| .948 | 6.670 | .00000 | .48690 | .11058 | -.09550 | -.00210 | -.00110 | .00680 | .47070 | .16639 | 2.82898 |
| .949 | 8.920 | .00000 | .61890 | .10700 | -.10600 | -.00250 | -.00110 | .00640 | .59480 | .20167 | 2.94938 |
| .949 | 11.090 | .01000 | .74130 | .10751 | -.11690 | -.00180 | -.00300 | .00690 | .70670 | .24809 | 2.84854 |
| .948 | 12.030 | .02000 | .79780 | .10814 | -.12210 | -.00300 | -.00460 | .00720 | .75770 | .27205 | 2.78519 |
| .947 | 13.340 | .02000 | .86520 | .10938 | -.12650 | -.00420 | -.00530 | .00740 | .81660 | .30606 | 2.66814 |
| .948 | 14.250 | .02000 | .91840 | .11086 | -.12920 | -.00310 | -.00570 | .00730 | .86290 | .33352 | 2.58728 |
| .948 | 15.260 | .03000 | .97210 | .11408 | -.13130 | -.00370 | -.00660 | .00670 | .90760 | .36623 | 2.47822 |
| .946 | 16.350 | .03000 | 1.02430 | .11497 | -.13290 | -.00510 | -.00700 | .00620 | .95050 | .39867 | 2.38421 |
| .947 | 17.380 | .03000 | 1.08090 | .11790 | -.13340 | -.00790 | -.00600 | .00590 | .99660 | .43405 | 2.29603 |
| .948 | 19.690 | .00000 | 1.17840 | .11790 | -.12680 | -.00810 | -.00330 | .00110 | 1.06970 | .50805 | 2.10552 |
| GRADIENT | | .00000 | .06662 | -.00041 | -.01008 | .00038 | -.00002 | .00018 | .06448 | .00318 | .48020 |

RUN NO. 282/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CYL | CL | CD | L/D |
|----------|--------|--------|---------|---------|---------|---------|---------|--------|---------|--------|---------|
| .977 | -2.120 | .00000 | -.07780 | .13723 | -.01100 | -.00180 | -.00080 | .00520 | -.07260 | .14001 | -.51852 |
| .977 | .210 | .00000 | .07580 | .13619 | -.03220 | -.00030 | -.00070 | .00560 | .07530 | .13647 | .55178 |
| .977 | 2.180 | .00000 | .20400 | .13507 | -.05110 | -.00060 | -.00090 | .00600 | .19870 | .14273 | 1.39212 |
| .978 | 4.430 | .00000 | .35390 | .13368 | -.07490 | -.00070 | -.00130 | .00610 | .34250 | .16062 | 2.13241 |
| .978 | 6.650 | .00000 | .49520 | .13215 | -.09580 | -.00050 | -.00170 | .00590 | .47650 | .18861 | 2.52642 |
| .977 | 8.850 | .00000 | .62630 | .13062 | -.11460 | -.00180 | -.00170 | .00570 | .59880 | .22542 | 2.65637 |
| .978 | 11.050 | .00000 | .75820 | .13098 | -.12500 | -.00230 | -.00090 | .00510 | .71890 | .27400 | 2.62374 |
| .978 | 12.000 | .00000 | .80870 | .13165 | -.13230 | -.00210 | -.00160 | .00500 | .76360 | .29691 | 2.57181 |
| .978 | 13.120 | .01000 | .88040 | .13331 | -.13690 | -.00390 | -.00150 | .00540 | .82710 | .32967 | 2.50885 |
| .977 | 14.200 | .00000 | .94250 | .13399 | -.13980 | -.00110 | -.00130 | .00480 | .88090 | .36112 | 2.43934 |
| .978 | 15.240 | .00000 | .99430 | .13593 | -.14370 | -.00070 | -.00200 | .00490 | .92360 | .39251 | 2.35304 |
| .977 | 16.390 | .00000 | 1.05260 | .13795 | -.14440 | -.00370 | -.00070 | .00390 | .97100 | .42942 | 2.26121 |
| .977 | 17.380 | .00000 | 1.10940 | .13927 | -.14700 | -.00140 | -.00180 | .00390 | 1.01640 | .46304 | 2.19504 |
| .978 | 19.620 | .00000 | 1.22890 | .13992 | -.15310 | -.00130 | -.00090 | .00440 | 1.11050 | .54444 | 2.03972 |
| GRADIENT | | .00000 | .06584 | -.00054 | -.00974 | .00014 | -.00008 | .00014 | .06331 | .00313 | .40679 |

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK040) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AIRLON = 2.000 BETA = .000
 CRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 251/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|--------|---------|--------|---------|---------|---------|--------|---------|--------|---------|
| 1.048 | -2.110 | .00000 | -.08710 | .15964 | .00130 | -.00090 | -.00020 | .00560 | -.08120 | .16274 | -.49896 |
| 1.047 | .180 | .00000 | .07200 | .15794 | -.02490 | -.00070 | -.00050 | .00600 | .07150 | .15817 | .45206 |
| 1.048 | 2.210 | .00000 | .21010 | .15874 | -.04970 | .00090 | -.00090 | .00610 | .20380 | .16672 | 1.22238 |
| 1.046 | 4.300 | .00000 | .34620 | .15989 | -.07410 | -.00120 | -.00130 | .00630 | .33320 | .18540 | 1.79722 |
| 1.048 | 6.730 | .00000 | .49880 | .15987 | -.10090 | -.00090 | -.00180 | .00660 | .47660 | .21722 | 2.19406 |
| 1.047 | 8.900 | .00000 | .62480 | .15783 | -.11580 | -.00050 | -.00130 | .00660 | .59290 | .25259 | 2.34726 |
| 1.047 | 11.090 | .00000 | .74200 | .15488 | -.12440 | -.00020 | -.00120 | .00600 | .69830 | .29471 | 2.36943 |
| 1.047 | 12.050 | .00000 | .79880 | .15421 | -.12750 | -.00210 | -.00100 | .00580 | .74900 | .31757 | 2.35851 |
| 1.048 | 12.970 | .00000 | .84980 | .15438 | -.13080 | -.00060 | -.00150 | .00570 | .79350 | .34117 | 2.32581 |
| 1.048 | 14.260 | .00000 | .92730 | .15495 | -.13770 | -.00140 | -.00150 | .00530 | .86050 | .37859 | 2.27290 |
| 1.048 | 15.300 | .00000 | .98650 | .15561 | -.14450 | -.00040 | -.00160 | .00530 | .91040 | .41041 | 2.21829 |
| 1.047 | 16.400 | .00000 | 1.06150 | .15695 | -.15440 | -.00020 | -.00200 | .00490 | .97400 | .45027 | 2.16315 |
| 1.047 | 17.430 | .01000 | 1.11630 | .15716 | -.15750 | .00000 | -.00300 | .00410 | 1.01800 | .48432 | 2.10191 |
| 1.047 | 19.720 | .00000 | 1.23770 | .15934 | -.16490 | .00130 | -.00300 | .00440 | 1.11110 | .56819 | 1.95551 |
| 1.047 | GRADIENT | .00000 | .06766 | .00007 | -.01180 | .00003 | -.00017 | .00010 | .06472 | .00354 | .36083 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK041) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.000 ELEVON = 10.000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 197/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|--------|---------|---------|---------|---------|---------|--------|---------|--------|---------|
| 1.199 | -2.110 | .00000 | -.08280 | .15741 | .00780 | -.00380 | -.00030 | .00430 | -.07700 | .16035 | -.48019 |
| 1.198 | .160 | .01000 | .06460 | .15556 | -.02250 | -.00400 | -.00120 | .00420 | .06420 | .15574 | .41223 |
| 1.197 | 2.160 | .01000 | .18620 | .15457 | -.04910 | -.00310 | -.00110 | .00470 | .18020 | .16148 | 1.11594 |
| 1.197 | 4.250 | .00000 | .31040 | .15368 | -.07420 | -.00080 | -.00080 | .00520 | .29810 | .17626 | 1.69125 |
| 1.198 | 6.560 | .00000 | .44920 | .15147 | -.09690 | -.00050 | -.00050 | .00550 | .42900 | .20180 | 2.12590 |
| 1.198 | 8.830 | .01000 | .57260 | .14800 | -.11020 | -.00300 | -.00120 | .00570 | .54300 | .23414 | 2.31911 |
| 1.197 | 10.940 | .01000 | .69580 | .14575 | -.12470 | -.00300 | -.00190 | .00500 | .65550 | .27515 | 2.38233 |
| 1.198 | 11.930 | .00000 | .74880 | .14613 | -.12900 | -.00160 | -.00150 | .00480 | .70240 | .29776 | 2.35892 |
| 1.197 | 13.230 | .00000 | .82300 | .14620 | -.13540 | -.00210 | -.00120 | .00490 | .76770 | .33067 | 2.32164 |
| 1.197 | 14.100 | .00000 | .87190 | .14610 | -.13930 | -.00110 | -.00090 | .00470 | .81000 | .35411 | 2.28745 |
| 1.198 | 15.120 | .01000 | .92390 | .14596 | -.14370 | -.00390 | -.00130 | .00510 | .85390 | .38190 | 2.23593 |
| 1.198 | 16.220 | .00000 | .97870 | .14660 | -.14800 | -.00080 | -.00120 | .00430 | .89880 | .41414 | 2.17027 |
| 1.198 | 17.220 | .00000 | 1.02910 | .14714 | -.15210 | -.00180 | -.00150 | .00390 | .93930 | .44520 | 2.10983 |
| 1.197 | 19.500 | .00000 | 1.14870 | .14885 | -.16050 | -.00190 | -.00180 | .00340 | 1.03300 | .52376 | 1.97229 |
| | GRADIENT | .00004 | .06176 | -.00058 | -.01294 | .00046 | -.00007 | .00015 | .05692 | .00249 | .34288 |

(RUK0+2) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 ALLRON = .000 BETA = 2.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 131/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .596 | -2.200 | 2.04000 | -1.5770 | .06254 | .03910 | -.03620 | .00440 | -.00230 | -.15510 | .06895 | -2.26266 |
| .597 | .010 | 2.03000 | -.06000 | .06424 | .03810 | -.03370 | .00430 | -.00240 | -.06000 | .06423 | -.93415 |
| .596 | 1.950 | 2.04000 | .03330 | .06247 | .03740 | -.03530 | .00320 | -.00290 | .03110 | .06357 | .48925 |
| .597 | 4.310 | 2.04000 | .15490 | .05471 | .03570 | -.03630 | .00350 | -.00380 | .15040 | .06620 | 2.27203 |
| .597 | 6.420 | 2.04000 | .25540 | .04404 | .03330 | -.03730 | .00350 | -.00470 | .24890 | .07232 | 3.44157 |
| .596 | 8.640 | 2.04000 | .37060 | .03011 | .03130 | -.03510 | .00250 | -.00610 | .36190 | .08544 | 4.23563 |
| .597 | 10.630 | 2.04000 | .47130 | .01754 | .03100 | -.03490 | .00280 | -.00730 | .46000 | .10418 | 4.41553 |
| .597 | 11.540 | 2.04000 | .52100 | .01152 | .03100 | -.03480 | .00200 | -.00760 | .50820 | .11551 | 4.39946 |
| .598 | 12.590 | 2.04000 | .58510 | .00528 | .03160 | -.03330 | .00260 | -.00790 | .56990 | .13269 | 4.29501 |
| .597 | 13.680 | 2.04000 | .65440 | .00522 | .02810 | -.03340 | .00460 | -.00570 | .63460 | .15984 | 3.97030 |
| .597 | 14.770 | 2.04000 | .71460 | .00573 | .02440 | -.03130 | .00350 | -.00440 | .68950 | .18772 | 3.67302 |
| .597 | 15.850 | 2.04000 | .77840 | .00617 | .01990 | -.03010 | .00200 | -.00390 | .74710 | .21853 | 3.41872 |
| .597 | 16.860 | 2.04000 | .82810 | .00913 | .01770 | -.03030 | .00190 | -.00490 | .78990 | .24891 | 3.17337 |
| .597 | 19.070 | 2.04000 | .97830 | .01232 | .00320 | -.03050 | .00210 | -.00687 | .92660 | .33128 | 2.77894 |
| .596 | GRADIENT | .00044 | .04805 | -.00119 | -.00051 | -.00009 | -.00017 | -.00023 | .04696 | -.00035 | .70017 |

RUN NO. 155/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|
| .795 | -2.200 | 2.06000 | -1.19270 | .06645 | .04980 | -.04410 | .00500 | -.00100 | -.19000 | .07380 | -2.57458 |
| .796 | .060 | 2.06000 | -.07350 | .06771 | .04770 | -.04320 | .00500 | -.00200 | -.07360 | .06763 | -1.08823 |
| .796 | 2.090 | 2.06000 | .03090 | .06523 | .04520 | -.04340 | .00480 | -.00290 | .02850 | .06631 | .42978 |
| .795 | 4.360 | 2.06000 | .15190 | .05853 | .04200 | -.04460 | .00440 | -.00380 | .14700 | .06991 | 2.10275 |
| .796 | 6.540 | 2.06000 | .27820 | .05109 | .03530 | -.04320 | .00510 | -.00410 | .27060 | .08244 | 3.28224 |
| .795 | 8.700 | 2.06000 | .39180 | .04728 | .03090 | -.04270 | .00420 | -.00440 | .38020 | .10600 | 3.58679 |
| .795 | 10.820 | 2.06000 | .49820 | .04556 | .03050 | -.04090 | .00420 | -.00420 | .48080 | .13927 | 3.47715 |
| .796 | 11.750 | 2.07000 | .54250 | .04538 | .02820 | -.04360 | .00340 | -.00400 | .52190 | .15490 | 3.36917 |
| .795 | 12.800 | 2.06000 | .59360 | .04646 | .02870 | -.04240 | .00330 | -.00320 | .56860 | .17682 | 3.21576 |
| .795 | 13.920 | 2.06000 | .66690 | .04841 | .02150 | -.04020 | .00250 | -.00350 | .63570 | .20742 | 3.06476 |
| .796 | 14.960 | 2.07000 | .72850 | .05102 | .01180 | -.04080 | .00170 | -.00340 | .69060 | .23735 | 2.90984 |
| .796 | 16.050 | 2.07000 | .78810 | .05235 | .00610 | -.03950 | .00130 | -.00350 | .74290 | .26820 | 2.76995 |
| .796 | 17.040 | 2.07000 | .84670 | .05308 | .00420 | -.03850 | .00060 | -.00280 | .79390 | .29887 | 2.65637 |
| .796 | 19.310 | 2.07000 | .96990 | .05331 | .00250 | -.03670 | -.00100 | -.00100 | .89760 | .37104 | 2.41917 |
| .796 | GRADIENT | -.00000 | .05243 | -.00121 | -.00119 | -.00008 | -.00009 | -.00043 | .05128 | -.00060 | .71607 |

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK042) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

4.500 ELEVON = .000
 .000 BETA = 2.000
 1.000 SPDRK = 25.000
 .000 BDFLAP = .000

RUN NO. 61/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| .896 | -2.220 | 2.06000 | -.17920 | .07972 | .05030 | -.04700 | .00670 | -.00130 | -.17590 | .08660 | -2.03114 |
| .896 | .020 | 2.06000 | -.04290 | .08139 | .03830 | -.04460 | .00680 | -.00260 | -.04290 | .08139 | -.52719 |
| .896 | 2.090 | 2.06000 | .07680 | .08032 | .03040 | -.04670 | .00660 | -.00320 | .07380 | .08307 | .88844 |
| .896 | 4.270 | 2.06000 | .19540 | .07888 | .02430 | -.04730 | .00630 | -.00260 | .18890 | .09321 | 2.02661 |
| .896 | 6.570 | 2.06000 | .30420 | .07671 | .02830 | -.04490 | .00560 | -.00380 | .29340 | .11101 | 2.64296 |
| .895 | 8.750 | 2.07000 | .41160 | .07451 | .02680 | -.04450 | .00420 | -.00540 | .39550 | .13626 | 2.90261 |
| .896 | 10.830 | 2.07000 | .51560 | .07503 | .01780 | -.04380 | .00310 | -.00390 | .49230 | .17057 | 2.88616 |
| .896 | 11.790 | 2.07000 | .56630 | .07549 | .01340 | -.04500 | .00300 | -.00360 | .53900 | .18961 | 2.84273 |
| .895 | 13.510 | 2.07000 | .65360 | .07792 | .00370 | -.04050 | .00120 | -.00590 | .61730 | .22845 | 2.70207 |
| .895 | 15.010 | 2.07000 | .73720 | .07794 | .00320 | -.03990 | .00060 | -.00560 | .64250 | .24029 | 2.67380 |
| .895 | 16.090 | 2.08000 | .78970 | .07852 | .00010 | -.03750 | -.00030 | -.00500 | .69200 | .26561 | 2.60535 |
| .895 | 17.160 | 2.08000 | .85130 | .07835 | -.00520 | -.03600 | -.00160 | -.00490 | .73690 | .29431 | 2.50385 |
| .895 | 19.350 | 2.08000 | .96510 | .07870 | -.00880 | -.03940 | -.00180 | -.00510 | .79030 | .32603 | 2.42401 |
| .896 | GRADIENT | .00000 | .05774 | -.00016 | -.00399 | -.00013 | -.00290 | -.00500 | .88450 | .39403 | 2.24476 |
| | | | | | | | | | .05623 | .00039 | .63086 |

RUN NO. 186/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| .948 | -2.110 | 2.07000 | -.20450 | .10490 | .07470 | -.04600 | .00580 | -.00350 | -.20050 | .11236 | -1.78447 |
| .947 | .190 | 2.07000 | -.05160 | .10397 | .05580 | -.04440 | .00540 | -.00520 | -.05190 | .10380 | -.50001 |
| .948 | 2.240 | 2.06000 | .07690 | .10298 | .03780 | -.04220 | .00530 | -.00550 | .07280 | .10591 | .68740 |
| .947 | 4.510 | 2.06000 | .22150 | .10012 | .01660 | -.04280 | .00590 | -.00510 | .21300 | .11723 | 1.81698 |
| .948 | 6.770 | 2.06000 | .35600 | .09668 | .00380 | -.04320 | .00660 | -.00500 | .34210 | .13797 | 2.47948 |
| .947 | 8.960 | 2.07000 | .48710 | .09288 | -.00860 | -.04360 | .00480 | -.00470 | .46660 | .16761 | 2.78384 |
| .947 | 11.090 | 2.07000 | .59650 | .09190 | -.01530 | -.03940 | .00240 | -.00570 | .55780 | .20484 | 2.77189 |
| .948 | 12.050 | 2.08000 | .65120 | .09276 | -.01950 | -.03980 | .00020 | -.00580 | .61750 | .22666 | 2.72430 |
| .948 | 13.370 | 2.05000 | .72070 | .09334 | -.02520 | -.03460 | .00430 | -.00740 | .67960 | .25746 | 2.63959 |
| .947 | 14.250 | 2.04000 | .76410 | .09302 | -.02900 | -.02950 | .00470 | -.00760 | .71770 | .27824 | 2.57939 |
| .947 | 15.290 | 2.05000 | .82120 | .09440 | -.03420 | -.03090 | .00430 | -.00830 | .76720 | .30761 | 2.49404 |
| .948 | 16.440 | 2.04000 | .88520 | .09432 | -.03490 | -.02640 | .00330 | -.00910 | .82230 | .34099 | 2.41154 |
| .948 | 17.450 | 2.04000 | .93820 | .09488 | -.03640 | -.02570 | .00360 | -.00950 | .86660 | .37185 | 2.33048 |
| .948 | 19.710 | 2.07000 | 1.04810 | .09244 | -.03380 | -.02230 | -.00450 | -.00900 | .95540 | .44051 | 2.16887 |
| | GRADIENT | -.00181 | .06421 | -.00070 | -.00878 | .00054 | -.00001 | -.00023 | .06232 | .00075 | .54715 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK042) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMPR = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMPR = .0000 IN. YO
 BREF = 936.6800 INCHES ZMPR = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AIRLON =
 GRIT =
 RUDDER =

ELEVON = .000
 BETA = 2.000
 SPDBRK = 25.000
 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 280/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| .977 | -2.200 | 2.06000 | -2.0770 | .12446 | .08120 | -.04310 | .00480 | -.00320 | -.20260 | .13234 | -1.53240 |
| .978 | .080 | 2.06000 | -.05920 | .12381 | .06130 | -.03870 | .00490 | -.00480 | -.05940 | .12373 | -.48009 |
| .976 | 2.160 | 2.06000 | .07850 | .12099 | .04290 | -.03860 | .00450 | -.00540 | .07390 | .12386 | .59663 |
| .976 | 4.430 | 2.06000 | .21980 | .11925 | .01970 | -.03810 | .00500 | -.00540 | .20990 | .13587 | 1.54484 |
| .976 | 6.680 | 2.06000 | .35310 | .11741 | .00320 | -.04320 | .00560 | -.00630 | .33700 | .15769 | 2.13715 |
| .976 | 8.890 | 2.06000 | .49170 | .11524 | -.01200 | -.04130 | .00590 | -.00650 | .46790 | .18984 | 2.41138 |
| .976 | 11.030 | 2.06000 | .60740 | .11516 | -.02200 | -.04050 | .00520 | -.00650 | .57410 | .22924 | 2.50434 |
| .978 | 12.000 | 2.07000 | .66430 | .11610 | -.02700 | -.04040 | .00430 | -.00650 | .62560 | .25168 | 2.48571 |
| .976 | 13.120 | 2.07000 | .72920 | .11504 | -.03100 | -.03990 | .00330 | -.00710 | .68410 | .27756 | 2.46470 |
| .976 | 14.150 | 2.07000 | .78810 | .11516 | -.03550 | -.03770 | .00160 | -.00690 | .73610 | .30433 | 2.41879 |
| .977 | 15.200 | 2.06000 | .84350 | .11477 | -.03860 | -.03500 | .00180 | -.00670 | .78390 | .33191 | 2.36147 |
| .976 | 16.300 | 2.07000 | .90170 | .11411 | -.04110 | -.03470 | .00090 | -.00710 | .83330 | .36260 | 2.29812 |
| .976 | 17.300 | 2.07000 | .96300 | .11464 | -.04240 | -.03700 | .00090 | -.00700 | .87570 | .39285 | 2.22908 |
| .977 | 19.580 | 2.07000 | 1.07960 | .11468 | -.05010 | -.02670 | -.00280 | -.00840 | .97870 | .45985 | 2.08302 |
| | GRADIENT | .00000 | .06463 | -.00084 | -.00924 | .00069 | .00001 | -.00033 | .06241 | .00049 | .46894 |

RUN NO. 249/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|--------|---------|---------|---------|---------|---------|--------|----------|
| 1.048 | -2.210 | 2.07000 | -2.0730 | .14836 | .08710 | -.04280 | .00530 | -.00270 | -.20150 | .15624 | -1.28965 |
| 1.047 | .110 | 2.06000 | -.05440 | .14828 | .06040 | -.03880 | .00470 | -.00430 | -.05470 | .14818 | -.36916 |
| 1.046 | 2.180 | 2.07000 | .08810 | .15016 | .03500 | -.04140 | .00350 | -.00520 | .08230 | .15340 | .53650 |
| 1.048 | 4.270 | 2.07000 | .22780 | .15116 | .01100 | -.03810 | .00390 | -.00510 | .21590 | .16770 | 1.28741 |
| 1.046 | 6.640 | 2.07000 | .36720 | .14955 | -.00840 | -.03940 | .00320 | -.00490 | .34740 | .19101 | 1.81879 |
| 1.046 | 8.860 | 2.07000 | .48970 | .14646 | -.02180 | -.03870 | .00370 | -.00560 | .46130 | .22014 | 2.09552 |
| 1.047 | 11.020 | 2.07000 | .60950 | .14279 | -.02880 | -.03830 | .00400 | -.00580 | .57000 | .25647 | 2.22246 |
| 1.048 | 12.000 | 2.07000 | .66510 | .14164 | -.03270 | -.03910 | .00390 | -.00600 | .62210 | .27703 | 2.24557 |
| 1.047 | 12.950 | 2.07000 | .72160 | .14072 | -.03560 | -.03960 | .00370 | -.00640 | .67160 | .29885 | 2.24727 |
| 1.047 | 14.130 | 2.07000 | .78030 | .14061 | -.04270 | -.04030 | .00390 | -.00590 | .72230 | .32684 | 2.20992 |
| 1.047 | 15.240 | 2.07000 | .84690 | .14047 | -.04700 | -.03990 | .00340 | -.00530 | .78020 | .35815 | 2.17843 |
| 1.047 | 16.370 | 2.08000 | .92050 | .14097 | -.05710 | -.04310 | .00320 | -.00470 | .84340 | .39469 | 2.13688 |
| 1.048 | 17.390 | 2.08000 | .97890 | .13925 | -.06460 | -.03290 | .00070 | -.00360 | .89250 | .42545 | 2.09776 |
| 1.048 | 19.680 | 2.09000 | 1.10720 | .13814 | -.07170 | -.02840 | -.00350 | -.00580 | .99600 | .50294 | 1.98036 |
| 1.047 | GRADIENT | .00042 | .06730 | .00047 | -.01179 | .00054 | -.00027 | -.00038 | .06457 | .00178 | .40157 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUKD43) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000
 AILRON = .000 BETA = 2.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 199/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| 1.199 | -2.140 | 2.06000 | -1.8010 | .14867 | .07760 | -.03900 | .00510 | -.00340 | -.17440 | .15529 | -1.12305 |
| 1.196 | .070 | 2.06000 | -.03920 | .14765 | .04650 | -.03680 | .00380 | -.00350 | -.03940 | .14760 | -.26693 |
| 1.198 | 2.140 | 2.06000 | .09110 | .14672 | .01850 | -.03640 | .00250 | -.00350 | .08560 | .15002 | .57059 |
| 1.197 | 4.240 | 2.06000 | .21630 | .14566 | -.00380 | -.03490 | .00220 | -.00380 | .20490 | .16125 | 1.27067 |
| 1.197 | 6.550 | 2.07000 | .35000 | .14353 | -.02410 | -.03800 | .00100 | -.00380 | .33140 | .18252 | 1.81571 |
| 1.198 | 8.810 | 2.07000 | .47370 | .14091 | -.03890 | -.03530 | .00100 | -.00390 | .44650 | .21180 | 2.10813 |
| 1.197 | 10.950 | 2.06000 | .58860 | .13713 | -.04570 | -.03160 | .00120 | -.00560 | .55190 | .24644 | 2.23950 |
| 1.197 | 11.930 | 2.07000 | .64040 | .13624 | -.05040 | -.03390 | .00070 | -.00510 | .59840 | .26568 | 2.25235 |
| 1.197 | 13.280 | 2.06000 | .71350 | .13500 | -.05630 | -.03290 | .00190 | -.00450 | .66340 | .29531 | 2.24444 |
| 1.197 | 14.050 | 2.08000 | .76150 | .13509 | -.06180 | -.04070 | .00020 | -.00350 | .70590 | .31592 | 2.23445 |
| 1.197 | 15.110 | 2.08000 | .81940 | .13399 | -.06860 | -.03870 | .00020 | -.00300 | .75620 | .34295 | 2.20497 |
| 1.198 | 16.280 | 2.06000 | .88290 | .13321 | -.07210 | -.03780 | -.00010 | -.00230 | .81000 | .37535 | 2.15801 |
| 1.197 | 17.240 | 2.08000 | .92670 | .13324 | -.07690 | -.03560 | -.00070 | -.00310 | .84550 | .40190 | 2.10373 |
| 1.197 | 19.500 | 2.07000 | 1.03790 | .13219 | -.08160 | -.03020 | -.00270 | -.00450 | .93410 | .47107 | 1.98295 |
| 1.197 | GRADIENT | -.00000 | .06222 | -.00047 | -.01284 | .00060 | -.00047 | -.00005 | .05955 | .00093 | .37813 |

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TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK045) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 BETA = 2.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 128/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .596 | -2.150 | 2.04000 | .01220 | .07280 | -.04850 | -.04060 | .00400 | -.00140 | .01490 | .07229 | .20611 |
| .596 | .100 | 2.04000 | .11260 | .07413 | -.05000 | -.03830 | .00360 | -.00170 | .11250 | .07433 | 1.51359 |
| .597 | 2.070 | 2.05000 | .20950 | .07182 | -.05270 | -.04250 | .00300 | -.00230 | .20670 | .07934 | 2.60523 |
| .597 | 4.410 | 2.04000 | .33210 | .06267 | -.05280 | -.03560 | .00400 | -.00360 | .32630 | .08802 | 3.70709 |
| .596 | 6.530 | 2.04000 | .43990 | .05126 | -.05200 | -.03950 | .00390 | -.00410 | .43120 | .10095 | 4.27124 |
| .597 | 8.600 | 2.05000 | .54710 | .03891 | -.05980 | -.03880 | .00360 | -.00370 | .53510 | .12028 | 4.44866 |
| .597 | 10.660 | 2.05000 | .66080 | .02550 | -.06330 | -.03860 | .00360 | -.00550 | .64470 | .14730 | 4.37693 |
| .597 | 11.620 | 2.05000 | .72630 | .01833 | -.06450 | -.03830 | .00310 | -.00630 | .79830 | .16437 | 4.30927 |
| .597 | 12.670 | 2.04000 | .78050 | .01524 | -.06610 | -.03540 | .00400 | -.00520 | .75810 | .18606 | 4.07449 |
| .597 | 13.740 | 2.04000 | .84690 | .01784 | -.07080 | -.03820 | .00470 | -.00220 | .81640 | .21848 | 3.74584 |
| .596 | 14.780 | 2.05000 | .90850 | .01966 | -.07350 | -.03850 | .00310 | -.00150 | .87340 | .25078 | 3.48280 |
| .596 | 15.860 | 2.04000 | .95110 | .02286 | -.07500 | -.03520 | .00400 | -.00110 | .90860 | .28191 | 3.22297 |
| .597 | 16.890 | 2.04000 | 1.00810 | .02835 | -.07690 | -.03370 | .00290 | -.00430 | .95630 | .32002 | 2.98829 |
| .597 | 19.120 | 2.04000 | 1.16390 | .02897 | -.08920 | -.03490 | .00310 | -.00610 | 1.09010 | .40860 | 2.66786 |
| GRADIENT | | .00041 | .04882 | -.00152 | -.00071 | -.00053 | -.00002 | -.00033 | .04752 | .00242 | .53513 |

RUN NO. 62/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .895 | -2.220 | 2.06000 | -.08020 | .08722 | -.01690 | -.04550 | .00590 | -.00290 | -.07670 | .09026 | -.84976 |
| .896 | .080 | 2.06000 | .06110 | .09003 | -.02880 | -.04340 | .00590 | -.00430 | .06090 | .08912 | .68338 |
| .896 | 2.110 | 2.06000 | .19590 | .08896 | -.04590 | -.04360 | .00530 | -.00520 | .19240 | .09611 | 2.00182 |
| .896 | 4.330 | 2.06000 | .33710 | .08777 | -.05170 | -.04420 | .00580 | -.00500 | .32950 | .11291 | 2.91817 |
| .896 | 6.570 | 2.07000 | .46290 | .08740 | -.07540 | -.04500 | .00460 | -.00310 | .44990 | .13979 | 3.21841 |
| .896 | 8.780 | 2.08000 | .57610 | .08586 | -.08930 | -.04460 | .00280 | -.00340 | .56630 | .17279 | 3.21951 |
| .896 | 10.910 | 2.07000 | .68970 | .08740 | -.08970 | -.04080 | .00160 | -.00460 | .66060 | .21636 | 3.05328 |
| .895 | 11.880 | 2.07000 | .74920 | .08896 | -.09430 | -.04030 | .00110 | -.00510 | .71480 | .24119 | 2.96365 |
| .895 | 13.540 | 2.07000 | .82870 | .09456 | -.10370 | -.03750 | .00660 | -.00500 | .79350 | .28595 | 2.73993 |
| .895 | 14.010 | 2.07000 | .86280 | .09529 | -.10680 | -.03740 | .00000 | -.00460 | .81400 | .30133 | 2.70134 |
| .896 | 15.060 | 2.07000 | .91820 | .09307 | -.11460 | -.03630 | -.00090 | -.00400 | .86110 | .33328 | 2.58373 |
| .896 | 16.160 | 2.08000 | .97280 | .09937 | -.11590 | -.03650 | -.00170 | -.00380 | .90610 | .36619 | 2.47601 |
| .895 | 17.200 | 2.08000 | 1.03290 | .09957 | -.11640 | -.03750 | -.00080 | -.00280 | .95730 | .40065 | 2.38937 |
| .895 | 19.480 | 2.09000 | 1.12350 | .09990 | -.09990 | -.03750 | -.00390 | -.00300 | 1.02620 | .46798 | 2.19285 |
| GRADIENT | | .00000 | .06403 | .00009 | -.00698 | .00018 | -.00004 | -.00033 | .06234 | .00344 | .58312 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK046) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000
 AILLRON = .000 BETA = 2.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 194/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| 1.197 | -2.210 | 2.06000 | -.09360 | .15755 | .01050 | -.03970 | .00410 | -.00300 | -.08750 | .16104 | -.54334 |
| 1.196 | -1.450 | 2.06000 | -.05770 | .15703 | .00210 | -.03740 | .00400 | -.00290 | -.05370 | .15844 | -.33893 |
| 1.198 | .060 | 2.05000 | .05250 | .15637 | -.02060 | -.03660 | .00280 | -.00310 | .05230 | .15642 | .33435 |
| 1.196 | 2.110 | 2.06000 | .18330 | .15493 | -.04630 | -.03400 | .00240 | -.00310 | .17750 | .16157 | 1.09857 |
| 1.197 | 4.300 | 2.06000 | .31760 | .15446 | -.07250 | -.03280 | .00200 | -.00370 | .30510 | .17784 | 1.71560 |
| 1.198 | 6.530 | 2.06000 | .44670 | .15357 | -.09500 | -.03100 | .00150 | -.00380 | .42630 | .20337 | 2.09614 |
| 1.197 | 8.740 | 2.06000 | .57180 | .15003 | -.11110 | -.03270 | .00080 | -.00440 | .54240 | .23517 | 2.30638 |
| 1.198 | 10.890 | 2.07000 | .69260 | .14815 | -.12310 | -.03250 | .00050 | -.00580 | .65210 | .27633 | 2.35985 |
| 1.198 | 11.860 | 2.07000 | .74900 | .14752 | -.12920 | -.03070 | -.00010 | -.00640 | .70270 | .29831 | 2.35563 |
| 1.197 | 13.200 | 2.07000 | .82320 | .14711 | -.13530 | -.03360 | .00020 | -.00340 | .76780 | .33120 | 2.31823 |
| 1.196 | 14.010 | 2.07000 | .87200 | .14728 | -.13870 | -.03420 | .00030 | -.00310 | .81040 | .35400 | 2.28925 |
| 1.197 | 15.040 | 2.07000 | .92730 | .14783 | -.14500 | -.03280 | .00020 | -.00350 | .85720 | .38339 | 2.23582 |
| 1.196 | 16.200 | 2.09000 | .98760 | .14787 | -.14930 | -.03940 | -.00240 | -.00350 | .90710 | .41753 | 2.17254 |
| 1.197 | 17.190 | 2.08000 | 1.03670 | .14908 | -.15190 | -.03450 | -.00130 | -.00380 | .94630 | .44881 | 2.10847 |
| 1.196 | 19.460 | 2.08000 | 1.14770 | .15081 | -.15910 | -.03240 | -.00360 | -.00410 | 1.03180 | .52455 | 1.96702 |
| | GRADIENT | .00000 | .06420 | -.00049 | -.01230 | .00100 | -.00034 | -.00010 | .06135 | .00251 | .35741 |

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TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK047) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 BETA = -2.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 130/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|--------|---------|---------|---------|---------|----------|
| .597 | -2.230 | -2.04000 | -1.6090 | .06210 | .03860 | .03710 | -.00280 | -.00010 | -.15830 | .06831 | -2.31725 |
| .597 | .070 | -2.04000 | -.05710 | .06377 | .03820 | .03780 | -.00340 | .00080 | -.05720 | .06370 | -.89796 |
| .596 | 2.050 | -2.04000 | .04040 | .05177 | .03520 | .03570 | -.00330 | .00110 | .03820 | .06318 | .60465 |
| .597 | 4.350 | -2.05000 | .15540 | .05382 | .03450 | .03940 | -.00320 | .00170 | .15080 | .06545 | 2.30398 |
| .596 | 6.440 | -2.05000 | .25740 | .04337 | .03260 | .04170 | -.00340 | .00230 | .25090 | .07197 | 3.48632 |
| .597 | 8.640 | -2.05000 | .37160 | .02940 | .03060 | .04010 | -.00360 | .00290 | .36290 | .08489 | 4.27493 |
| .596 | 10.660 | -2.04000 | .47210 | .01633 | .03060 | .03860 | -.00440 | .00390 | .46090 | .10338 | 4.45842 |
| .596 | 11.630 | -2.04000 | .53470 | .00939 | .03320 | .03750 | -.00410 | .00350 | .52180 | .11699 | 4.46029 |
| .597 | 12.630 | -2.04000 | .58480 | .00533 | .03020 | .03750 | -.00380 | .00350 | .56950 | .13307 | 4.27970 |
| .597 | 13.720 | -2.05000 | .65120 | .00371 | .02720 | .03560 | -.00310 | .00340 | .63170 | .15805 | 3.99674 |
| .597 | 14.710 | -2.05000 | .71250 | .00369 | .02420 | .03870 | -.00310 | .00370 | .68820 | .18449 | 3.73025 |
| .597 | 15.770 | -2.04000 | .76910 | .00557 | .01850 | .03690 | -.00380 | .00460 | .73830 | .21535 | 3.42844 |
| .596 | 16.830 | -2.04000 | .83510 | .00848 | .01320 | .03800 | -.00350 | .00480 | .79690 | .24931 | 3.18880 |
| .597 | 19.080 | -2.04000 | .97650 | .01425 | -.00190 | .03890 | -.00450 | .00440 | .91810 | .33267 | 2.75976 |
| | GRADIENT | -.00139 | .04817 | -.00124 | -.00070 | .00023 | -.00005 | .00026 | .04708 | -.00042 | .70701 |

RUN NO. 64/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|--------|---------|---------|---------|---------|----------|
| .895 | -2.190 | -2.06000 | -1.7900 | .07791 | .05150 | .04370 | -.00500 | -.00040 | -.17580 | .08469 | -2.07573 |
| .896 | .070 | -2.06000 | -.04070 | .07952 | .04020 | .04580 | -.00600 | .00080 | -.04080 | .07947 | -.51340 |
| .896 | 2.100 | -2.06000 | .07420 | .07936 | .03050 | .04410 | -.00690 | .00160 | .07120 | .08203 | .86802 |
| .896 | 4.190 | -2.05000 | .19040 | .07756 | .02640 | .04580 | -.00550 | .00210 | .18420 | .09126 | 2.01832 |
| .896 | 6.580 | -2.05000 | .30010 | .07624 | .02860 | .04420 | -.00650 | .00250 | .28940 | .11013 | 2.62789 |
| .896 | 8.740 | -2.05000 | .41210 | .07353 | .02600 | .04560 | -.00620 | .00310 | .39610 | .13530 | 2.92767 |
| .895 | 10.850 | -2.05000 | .51420 | .07446 | .01890 | .04080 | -.00500 | .00400 | .49100 | .16992 | 2.88958 |
| .896 | 11.780 | -2.05000 | .56030 | .07468 | .01700 | .04070 | -.00460 | .00430 | .53320 | .18749 | 2.84381 |
| .896 | 13.490 | -2.05000 | .65180 | .07633 | .00670 | .03940 | -.00310 | .00420 | .61500 | .22627 | 2.72237 |
| .896 | 13.920 | -2.07000 | .67160 | .07659 | .00330 | .03770 | -.00210 | .00380 | .63350 | .23591 | 2.68540 |
| .896 | 14.990 | -2.07000 | .73010 | .07726 | .00000 | .03850 | -.00040 | .00340 | .68530 | .26347 | 2.60104 |
| .896 | 16.060 | -2.07000 | .78780 | .07717 | -.00300 | .03550 | .00020 | .00310 | .73560 | .29210 | 2.51833 |
| .896 | 17.110 | -2.07000 | .84560 | .07697 | -.00240 | .03530 | .00110 | .00340 | .78550 | .32234 | 2.43683 |
| .896 | 19.370 | -2.08000 | .96320 | .07717 | -.00350 | .02950 | .00470 | .00380 | .88300 | .39226 | 2.25104 |
| | GRADIENT | .00000 | .05780 | -.00005 | -.00402 | .00022 | -.00011 | .00039 | .05633 | -.00102 | .64584 |

(RUK048) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 37.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AIRLON = .000 BETA = -2.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 129/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|--------|---------|--------|---------|--------|---------|
| .596 | -2.150 | -2.04000 | .00470 | .07285 | -.04790 | .03650 | -.00370 | .00200 | .00740 | .07262 | .10190 |
| .596 | .150 | -2.04000 | .11790 | .07401 | -.04840 | .03450 | -.00370 | .00270 | .11770 | .07432 | 1.58373 |
| .597 | .590 | -2.04000 | .13970 | .07355 | -.04910 | .03680 | -.00330 | .00290 | .13890 | .07498 | 1.85238 |
| .596 | 2.130 | -2.04000 | .21980 | .07097 | -.04980 | .03850 | -.00340 | .00290 | .21700 | .07909 | 2.74370 |
| .597 | 4.420 | -2.05000 | .32720 | .06271 | -.05250 | .04030 | -.00360 | .00350 | .32140 | .08774 | 3.66310 |
| .596 | 6.550 | -2.04000 | .43610 | .05148 | -.05520 | .03890 | -.00400 | .00400 | .42740 | .10089 | 4.23630 |
| .596 | 8.620 | -2.04000 | .55070 | .03764 | -.05870 | .03900 | -.00390 | .00420 | .53880 | .11975 | 4.49922 |
| .597 | 10.720 | -2.04000 | .66110 | .02411 | -.06173 | .03740 | -.00470 | .00520 | .64510 | .14666 | 4.39860 |
| .596 | 12.670 | -2.04000 | .72890 | .01769 | -.06360 | .03730 | -.00380 | .00550 | .71030 | .16451 | 4.31756 |
| .596 | 13.770 | -2.05000 | .79060 | .01489 | -.06570 | .03670 | -.00310 | .00460 | .76810 | .18785 | 4.08898 |
| .596 | 14.810 | -2.05000 | .84860 | .01749 | -.06780 | .03780 | -.00240 | .00540 | .82060 | .21645 | 3.79118 |
| .596 | 15.910 | -2.04000 | .89830 | .01489 | -.07100 | .03980 | -.00340 | .00560 | .86400 | .24653 | 3.50468 |
| .596 | 16.900 | -2.04000 | .95660 | .02359 | -.07410 | .03680 | -.00370 | .00600 | .91350 | .28492 | 3.20620 |
| .597 | 19.110 | -2.05000 | 1.01240 | .02925 | -.07920 | .03440 | -.00470 | .00580 | .96020 | .32229 | 2.97927 |
| .596 | GRADIENT | -.00143 | .04930 | -.03087 | -.09270 | .04220 | -.00410 | .00570 | 1.08990 | .41031 | 2.65630 |
| | | | | -.00159 | -.00070 | .00070 | .00002 | .00021 | .04800 | .00235 | .54339 |

RUN NO. 63/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|--------|---------|--------|---------|--------|---------|
| .896 | -2.260 | -2.05000 | -.08510 | .08498 | -.01610 | .03800 | -.00490 | .00410 | -.08170 | .08827 | -.92557 |
| .897 | .060 | -2.06000 | .05370 | .08686 | -.02810 | .04010 | -.00450 | .00480 | .05360 | .08692 | .61669 |
| .895 | 2.110 | -2.05000 | .19160 | .08553 | -.04330 | .03810 | -.00510 | .00510 | .18830 | .09353 | 2.01335 |
| .896 | 4.270 | -2.06000 | .32840 | .08543 | -.06110 | .04350 | -.00570 | .00490 | .32100 | .11064 | 2.90126 |
| .897 | 6.560 | -2.06000 | .46470 | .08564 | -.07590 | .03920 | -.00450 | .00470 | .45190 | .13817 | 3.27065 |
| .897 | 8.760 | -2.06000 | .57540 | .08459 | -.07960 | .03830 | -.00460 | .00420 | .55580 | .17123 | 3.24584 |
| .896 | 10.870 | -2.06000 | .68990 | .08666 | -.08790 | .03710 | -.00380 | .00490 | .66110 | .21521 | 3.07192 |
| .896 | 11.870 | -2.06000 | .74150 | .08669 | -.09380 | .03440 | -.00290 | .00570 | .70730 | .23931 | 2.95553 |
| .896 | 13.530 | -2.06000 | .82650 | .09357 | -.10430 | .03650 | -.00250 | .00590 | .78170 | .28434 | 2.74921 |
| .896 | 14.000 | -2.06000 | .86770 | .09574 | -.10980 | .03420 | -.00190 | .00510 | .80900 | .30039 | 2.69314 |
| .897 | 15.020 | -2.07000 | .91450 | .09725 | -.11340 | .03510 | -.00050 | .00530 | .85800 | .33073 | 2.59424 |
| .896 | 16.120 | -2.07000 | .96980 | .09846 | -.11410 | .03260 | .00020 | .00590 | .90430 | .36385 | 2.48534 |
| .896 | 17.150 | -2.07000 | 1.01060 | .09883 | -.11460 | .03220 | .00100 | .00590 | .93650 | .39244 | 2.36638 |
| .896 | 19.400 | -2.07000 | 1.10690 | .09797 | -.10300 | .02610 | .00470 | .00610 | 1.01140 | .46008 | 2.19833 |
| | GRADIENT | -.00096 | .06366 | -.00019 | -.00693 | .00067 | -.00014 | .00013 | .05202 | .00338 | .59554 |

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TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (RUK049) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000
 AILRON = .000 BETA = -2.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 195/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|---------|---------|---------|---------|--------|---------|--------|---------|
| 1.197 | -2.180 | -2.06000 | -.09520 | .15763 | .01000 | .03430 | -.00220 | .0240 | -.07910 | .16076 | -.49205 |
| 1.197 | .120 | -2.04000 | .05860 | .15671 | -.02310 | .02610 | -.00340 | .00320 | .05830 | .15683 | .37173 |
| 1.197 | 2.090 | -2.06000 | .18300 | .15559 | -.04780 | .03160 | -.00140 | .00380 | .17720 | .16216 | 1.09275 |
| 1.198 | 4.350 | -2.05000 | .31890 | .15459 | -.07490 | .02760 | -.00200 | .00450 | .30620 | .17833 | 1.71701 |
| 1.197 | 6.540 | -2.05000 | .44910 | .15269 | -.09650 | .02770 | -.00110 | .00470 | .42880 | .20285 | 2.11390 |
| 1.196 | 8.760 | -2.05000 | .57240 | .14966 | -.11260 | .02640 | -.00140 | .00500 | .54280 | .23509 | 2.30892 |
| 1.198 | 10.900 | -2.05000 | .69650 | .14627 | -.12520 | .02660 | -.00080 | .00530 | .65630 | .27534 | 2.38363 |
| 1.197 | 11.900 | -2.06000 | .75200 | .14586 | -.13130 | .02750 | -.00010 | .00490 | .70570 | .29779 | 2.36978 |
| 1.197 | 13.130 | -2.06000 | .81840 | .14469 | -.13470 | .02790 | -.00030 | .00360 | .76410 | .32682 | 2.33801 |
| 1.197 | 14.010 | -2.06000 | .86840 | .14493 | -.13860 | .03020 | -.00030 | .00240 | .80740 | .35085 | 2.30126 |
| 1.197 | 15.040 | -2.06000 | .92510 | .14547 | -.14380 | .02880 | -.00050 | .00210 | .85570 | .38054 | 2.24862 |
| 1.198 | 16.220 | -2.06000 | .98260 | .14609 | -.14840 | .02840 | -.00010 | .00250 | .90270 | .41474 | 2.17654 |
| 1.197 | 17.190 | -2.07000 | 1.03590 | .14728 | -.15230 | .03120 | .00150 | .00270 | .94600 | .44685 | 2.11703 |
| 1.192 | 19.470 | -2.07000 | 1.14930 | .14938 | -.16030 | .02810 | .00260 | .00240 | 1.03370 | .52391 | 1.97303 |
| | GRADIENT | .00056 | .06199 | -.00047 | -.01297 | -.00071 | .00011 | .00032 | .05912 | .00268 | .34070 |

(RUK050) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -20.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 122 / 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .597 | -2.440 | .00000 | -4.3700 | .09624 | .16530 | -.00410 | .00050 | .00150 | -.43250 | .11476 | -3.76883 |
| .597 | -1.130 | .00000 | -3.1340 | .09909 | .16180 | -.00070 | .00110 | .00130 | -.31320 | .09980 | -3.13825 |
| .597 | 1.960 | .00000 | -2.1990 | .09746 | .15950 | .00050 | .00100 | .00140 | -.22290 | .09027 | -2.46922 |
| .596 | 4.150 | .00000 | -1.1220 | .09143 | .15560 | .00150 | .00050 | .00130 | -.11850 | .08307 | -1.42650 |
| .597 | 6.240 | .00000 | -.00700 | .08212 | .15440 | -.00100 | .00040 | .00110 | -.01590 | .08087 | -.19661 |
| .597 | 8.420 | .00000 | .09510 | .06945 | .15500 | .00040 | .00040 | .00090 | .08390 | .08263 | 1.01541 |
| .597 | 10.530 | .00000 | .19300 | .05741 | .15950 | -.00070 | .00060 | .00090 | .17930 | .09171 | 1.95499 |
| .597 | 11.460 | .00000 | .24311 | .05058 | .16040 | -.00050 | .00040 | .00070 | .22880 | .09799 | 2.33491 |
| .597 | 12.500 | .00000 | .29130 | .04489 | .16110 | .00040 | .00040 | .00030 | .27470 | .10687 | 2.57030 |
| .597 | 13.540 | .00000 | .35090 | .04021 | .16230 | -.00140 | .00030 | .00020 | .33180 | .12125 | 2.73657 |
| .596 | 14.580 | .00000 | .40230 | .03550 | .16440 | -.00280 | .00030 | .00030 | .38020 | .13660 | 2.78339 |
| .596 | 15.680 | .00000 | .45850 | .03554 | .16370 | -.00250 | .00010 | .00010 | .43180 | .15813 | 2.73060 |
| .597 | 16.690 | .00000 | .50850 | .03539 | .16580 | -.00100 | .00020 | .00050 | .47700 | .17997 | 2.65051 |
| .597 | 18.880 | .00000 | .63330 | .03569 | .16780 | .00260 | .00060 | .00030 | .58760 | .23870 | 2.46169 |
| | GRADIENT | .00000 | .04910 | -.00074 | -.00145 | .00041 | -.00000 | -.00002 | .04746 | -.00481 | .35374 |

RUN NO. 51 / 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|--------|---------|---------|----------|
| .897 | -2.380 | .00000 | -4.7680 | .13532 | .21970 | -.00150 | .00020 | .00000 | -.47080 | .15500 | -3.03735 |
| .896 | -1.110 | .00000 | -3.3110 | .13197 | .20210 | -.00010 | .00020 | .00000 | -.33080 | .13261 | -2.49462 |
| .897 | 1.910 | .00000 | -2.0920 | .12680 | .18800 | .00050 | .00020 | .00010 | -.21340 | .11976 | -1.78194 |
| .897 | 4.260 | .00000 | -.05340 | .11809 | .16400 | .00120 | .00010 | .00000 | -.06210 | .11380 | -.54571 |
| .896 | 6.370 | .00000 | .08300 | .11240 | .14450 | .00060 | .00060 | .00000 | .07000 | .12091 | .57892 |
| .897 | 8.600 | .00000 | .22610 | .10585 | .12750 | .00060 | .00160 | .00060 | .20770 | .13847 | 1.49997 |
| .897 | 10.760 | .00000 | .36390 | .10417 | .11410 | .00160 | .00060 | .00080 | .33810 | .17028 | 1.98559 |
| .896 | 11.710 | .00000 | .41910 | .10505 | .10900 | .00060 | .00090 | .00040 | .38910 | .18792 | 2.07052 |
| .897 | 13.110 | .00000 | .51110 | .10311 | .09560 | .00120 | .00130 | .00020 | .47440 | .21635 | 2.19273 |
| .896 | 13.860 | .00000 | .55340 | .10102 | .08940 | .00080 | .00020 | .00040 | .51310 | .23065 | 2.22462 |
| .896 | 14.910 | .00000 | .60410 | .10075 | .08900 | .00090 | .00140 | .00010 | .55780 | .25279 | 2.20654 |
| .897 | 16.010 | .00000 | .65290 | .10312 | .09140 | .00040 | .00040 | .00160 | .59830 | .27895 | 2.14487 |
| .897 | 17.020 | .00000 | .69590 | .10502 | .09480 | -.00180 | .00060 | .00100 | .63420 | .30400 | 2.08620 |
| .896 | 19.280 | .00000 | .79630 | .10512 | .10380 | -.00510 | .00190 | .00110 | .71690 | .36215 | 1.97956 |
| | GRADIENT | .00000 | .06348 | -.00260 | -.00827 | .00040 | -.00001 | .00000 | .06127 | -.00620 | .37390 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK051) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -20.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 190/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1.197 | -2.170 | .00000 | -.38260 | .20065 | .20640 | -.00680 | .00160 | -.00040 | -.37470 | .21499 | -1.74285 |
| 1.197 | .090 | .00000 | -.22740 | .19731 | .16640 | -.00670 | .00130 | -.00030 | -.22780 | .19695 | -1.15662 |
| 1.197 | 2.090 | .00000 | -.09490 | .19311 | .13580 | -.00470 | .00080 | -.00070 | -.10190 | .18952 | -.53767 |
| 1.198 | 4.340 | .00000 | .04900 | .18997 | .10750 | -.00240 | .00150 | -.00030 | .03450 | .19313 | .17863 |
| 1.198 | 6.530 | .01000 | .18350 | .18456 | .08220 | -.00670 | .00030 | -.00010 | .16130 | .20423 | .78979 |
| 1.197 | 8.750 | .00000 | .31640 | .17916 | .06310 | -.00210 | .00090 | -.00040 | .28540 | .22521 | 1.26728 |
| 1.197 | 10.850 | .00000 | .43770 | .17234 | .04920 | -.00420 | .00000 | -.00080 | .39750 | .25165 | 1.57957 |
| 1.197 | 11.810 | .00000 | .49860 | .16744 | .04190 | -.00240 | .00020 | -.00120 | .45380 | .26594 | 1.70638 |
| 1.197 | 13.140 | .00000 | .58040 | .16361 | .03260 | -.00160 | .00030 | -.00070 | .52800 | .29127 | 1.81276 |
| 1.197 | 13.970 | .00000 | .62840 | .16270 | .02560 | -.00150 | .00060 | -.00040 | .57050 | .30959 | 1.84275 |
| 1.197 | 15.030 | .00000 | .69260 | .16098 | .02050 | -.00340 | .00030 | -.00070 | .62710 | .33508 | 1.87149 |
| 1.198 | 16.140 | .00000 | .75020 | .15816 | .01380 | -.00290 | .00050 | -.00050 | .67650 | .36047 | 1.87699 |
| 1.197 | 17.160 | .00000 | .80290 | .15545 | .00970 | -.00430 | .00020 | -.00060 | .72120 | .38542 | 1.87121 |
| 1.197 | 19.410 | .00000 | .91280 | .15100 | .00460 | -.00130 | .00060 | -.00070 | .81070 | .44576 | 1.81867 |
| 1.198 | GRADIENT | .00000 | .06630 | -.00168 | -.01520 | .00070 | -.00004 | -.00000 | .06287 | -.00339 | .29638 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK052) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 AIRLON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 123/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .597 | -2.370 | .00000 | -.32910 | .07012 | .11920 | -.00250 | .00070 | .00010 | -.32590 | .08367 | -3.89510 |
| .597 | -.110 | .00000 | -.22520 | .07248 | .11650 | -.00160 | .00020 | .00000 | -.22500 | .07291 | -3.08590 |
| .597 | 1.920 | .00000 | -.13120 | .07046 | .11400 | -.00170 | .00020 | .00000 | -.13350 | .06602 | -2.02197 |
| .597 | 4.220 | .00000 | -.01780 | .06358 | .11310 | -.00290 | .00030 | .00000 | -.02240 | .06210 | -.36072 |
| .597 | 6.350 | .00000 | .08200 | .05360 | .11290 | -.00180 | -.00050 | -.00010 | .07560 | .06234 | 1.21269 |
| .597 | 8.490 | .00000 | .19090 | .04016 | .11410 | -.00190 | -.00020 | -.00030 | .18290 | .06790 | 2.69352 |
| .596 | 10.600 | .00000 | .28690 | .02821 | .11780 | -.00060 | -.00030 | -.00080 | .27680 | .08050 | 3.43833 |
| .597 | 11.520 | .00000 | .34140 | .02127 | .11990 | .00000 | -.00060 | -.00100 | .33030 | .08902 | 3.71030 |
| .596 | 12.510 | .00000 | .39420 | .01548 | .12020 | -.00320 | -.00040 | -.00160 | .38140 | .10050 | 3.79502 |
| .597 | 13.560 | .00000 | .44770 | .01325 | .11650 | -.00180 | .00050 | -.00150 | .43210 | .11785 | 3.66653 |
| .596 | 14.600 | .00000 | .50450 | .01188 | .11410 | -.00260 | .00080 | -.00080 | .48520 | .13867 | 3.49907 |
| .597 | 15.730 | .00000 | .58560 | .01068 | .10870 | -.00250 | -.00070 | -.00060 | .56070 | .16923 | 3.31322 |
| .597 | 16.730 | .00000 | .64400 | .01225 | .10590 | -.00040 | -.00070 | .00030 | .61320 | .19711 | 3.11088 |
| .597 | 18.940 | .00000 | .76960 | .01530 | .09540 | -.00110 | -.00110 | -.00020 | .72290 | .26427 | 2.73549 |
| | GRADIENT | .00000 | .04716 | -.00100 | -.00095 | -.00006 | -.00006 | -.00001 | .04597 | -.00328 | .53562 |

RUN NO. 52/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .896 | -2.310 | .00000 | -.35340 | .09933 | .15510 | -.00210 | .00030 | -.00010 | -.34910 | .11349 | -3.07595 |
| .897 | -.040 | .00000 | -.20420 | .09896 | .14150 | -.00040 | .00040 | -.00030 | -.20910 | .09911 | -2.10986 |
| .896 | 1.930 | .00000 | -.08440 | .09619 | .12740 | -.00010 | .00060 | .00000 | -.08770 | .09320 | -.94098 |
| .897 | 4.320 | .00000 | .06530 | .09271 | .10770 | .00090 | .00040 | -.00010 | .05810 | .09737 | .59672 |
| .896 | 6.460 | .00000 | .18550 | .08926 | .09320 | .00060 | -.00040 | -.00020 | .17530 | .10968 | 1.59834 |
| .897 | 8.680 | .00000 | .30750 | .08726 | .09020 | -.00130 | .00050 | -.00050 | .29080 | .13267 | 2.19195 |
| .897 | 10.790 | .00000 | .41850 | .08788 | .08330 | .00000 | -.00060 | -.00040 | .39460 | .16467 | 2.39626 |
| .897 | 11.710 | .00000 | .47220 | .08782 | .07930 | .00000 | -.00060 | -.00030 | .44450 | .18183 | 2.44460 |
| .897 | 13.170 | .00000 | .54110 | .08909 | .07690 | -.00060 | -.00060 | -.00030 | .50650 | .21003 | 2.41202 |
| .896 | 13.880 | .00000 | .57720 | .08935 | .07490 | -.00160 | -.00100 | -.00020 | .53890 | .22521 | 2.39293 |
| .896 | 14.920 | .00000 | .62460 | .08933 | .07160 | .00050 | -.00080 | -.00040 | .58050 | .24713 | 2.34893 |
| .897 | 16.070 | .00000 | .68880 | .08866 | .07160 | -.00250 | .00030 | -.00070 | .63730 | .27586 | 2.31020 |
| .896 | 17.040 | .00000 | .73190 | .08870 | .07210 | -.00040 | .00020 | -.00040 | .67380 | .29328 | 2.25139 |
| .896 | 19.310 | .00000 | .82940 | .08961 | .07880 | -.00510 | .00190 | -.00000 | .75310 | .35883 | 2.09874 |
| | GRADIENT | .00000 | .06301 | -.00103 | -.00714 | .00043 | .00001 | .00001 | .06128 | -.00246 | .95616 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0'
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0'
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0'
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 166/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|--------|---------|---------|---------|---------|---------|---------|---------|----------|
| .947 | -2.170 | .0000 | -37880 | .12301 | .19070 | -.00110 | .00090 | .00000 | -.37380 | .13726 | -2.72320 |
| .946 | .100 | .0000 | -22530 | .12120 | .17170 | -.00060 | .00080 | -.00030 | -.22550 | .12081 | -1.86662 |
| .946 | .500 | .0000 | -20000 | .12047 | .16580 | -.00260 | .00040 | .00000 | -.20110 | .11872 | -1.69390 |
| .947 | 2.140 | .0000 | -18970 | .11897 | .14680 | -.00020 | .00030 | -.00050 | -.08990 | .11569 | -.77705 |
| .946 | 4.430 | .0000 | .07270 | .11549 | .12000 | .00000 | .00020 | -.00060 | .06360 | .12076 | .52666 |
| .947 | 6.680 | .0000 | -21690 | .11274 | .09990 | .00090 | .00020 | -.00090 | .20230 | .13721 | 1.47443 |
| .947 | 8.870 | .0000 | .36030 | .10854 | .07600 | .00040 | .00020 | -.00090 | .33920 | .16280 | 2.08357 |
| .946 | 10.990 | .01000 | .48870 | .10476 | .05800 | -.00070 | -.00250 | -.00100 | .45970 | .19600 | 2.34537 |
| .947 | 11.970 | .01000 | .54850 | .10467 | .05210 | .00010 | -.00380 | .00000 | .51480 | .21615 | 2.38165 |
| .946 | 13.270 | .02000 | .62210 | .10353 | .04430 | -.00220 | -.00480 | .00060 | .58170 | .24356 | 2.38830 |
| .947 | 14.140 | .02000 | .67130 | .10320 | .04160 | -.00280 | -.00470 | .00060 | .62570 | .26407 | 2.36948 |
| .947 | 15.150 | .02000 | .72060 | .10259 | .03830 | -.00520 | -.00500 | .00060 | .66880 | .283747 | 2.32747 |
| .946 | 16.310 | .03000 | .77790 | .10177 | .03940 | -.00780 | -.00450 | .00110 | .71800 | .31614 | 2.27118 |
| .947 | 17.280 | .02000 | .82970 | .10163 | .03450 | -.00910 | -.00320 | .00110 | .76200 | .34350 | 2.21835 |
| .946 | 19.570 | .00000 | .95200 | .09915 | .03520 | -.00480 | .00090 | .00110 | .86370 | .41230 | 2.09482 |
| | GRADIENT | .00000 | .06848 | -.00114 | -.01088 | .00019 | -.00011 | -.00019 | .06636 | -.00236 | .49973 |

RUN NO. 277/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|--------|---------|---------|---------|---------|---------|---------|---------|----------|
| .979 | -2.190 | .0000 | -37240 | .14290 | .19160 | .00010 | .00190 | .00050 | -.36670 | .15703 | -2.33528 |
| .978 | .110 | .0000 | -21400 | .13939 | .16980 | -.00270 | .00030 | .00040 | -.21420 | .13898 | -1.54124 |
| .976 | .350 | .0000 | -19970 | .13845 | .16850 | .00030 | .00130 | .00000 | -.20060 | .13723 | -1.46181 |
| .976 | 2.150 | .0000 | -07970 | .13574 | .14530 | -.00320 | .00000 | .00020 | -.08480 | .13265 | -.63925 |
| .977 | 4.500 | .0000 | .08560 | .13340 | .11890 | .00100 | -.00020 | -.00100 | .07490 | .13970 | .53613 |
| .977 | 6.720 | .0000 | -22520 | .13053 | .09830 | .00190 | -.00050 | -.00110 | .20830 | .15599 | 1.33538 |
| .976 | 8.770 | .0000 | .36790 | .12708 | .07390 | -.00010 | -.00190 | -.00120 | .34330 | .18155 | 1.89094 |
| .979 | 11.000 | .0000 | .50140 | .12666 | .05610 | .00350 | -.00160 | -.00150 | .46790 | .22000 | 2.12677 |
| .976 | 11.960 | .0000 | .55840 | .12397 | .04620 | .00140 | -.00020 | -.00120 | .52060 | .23690 | 2.19757 |
| .979 | 13.080 | .0000 | .62490 | .12616 | .03300 | .00230 | -.00080 | .00060 | .58020 | .26431 | 2.19516 |
| .976 | 14.140 | .0000 | .68810 | .12451 | .03400 | -.00210 | -.00150 | .00000 | .63680 | .28883 | 2.20472 |
| .977 | 15.180 | .0000 | .74720 | .12410 | .03010 | -.00070 | -.00020 | -.00090 | .68860 | .31543 | 2.18308 |
| .978 | 16.310 | .0000 | .81400 | .12292 | .02890 | -.00040 | -.00070 | -.00100 | .74670 | .34657 | 2.15453 |
| .976 | 17.300 | .0000 | .86510 | .12001 | .02440 | -.00110 | -.00150 | -.00100 | .79020 | .37184 | 2.12511 |
| .976 | 19.550 | .0000 | .93820 | .11754 | .01470 | -.00470 | -.00120 | .00030 | .90130 | .44479 | 2.02635 |
| | GRADIENT | .00000 | .05825 | -.00144 | -.01105 | .00007 | -.00031 | -.00021 | .06581 | -.00244 | .43369 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK052) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 ALLRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 246/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1.047 | -2.240 | .00000 | .35070 | .16773 | .18260 | -.00560 | .00190 | .00080 | -.34390 | .18131 | -1.89676 |
| 1.047 | .110 | .00000 | -.17920 | .16545 | .15200 | -.00370 | .00150 | .00030 | -.17960 | .16511 | -1.08779 |
| 1.047 | 2.180 | .00000 | -.03470 | .16627 | .12150 | -.00220 | .00130 | .00020 | -.04100 | .16483 | -.24874 |
| 1.047 | 4.260 | .00000 | .10180 | .16571 | .09550 | -.00370 | .00080 | -.00030 | .08920 | .17281 | .51616 |
| 1.047 | 6.650 | .00000 | .25260 | .16345 | .07040 | -.00270 | .00030 | -.00030 | .23200 | .19160 | 1.21084 |
| 1.048 | 8.870 | .00000 | .39470 | .15996 | .04660 | -.00250 | -.00030 | -.00100 | .36550 | .21792 | 1.67723 |
| 1.047 | 11.050 | .00000 | .52500 | .15477 | .03240 | .00000 | -.00040 | -.00100 | .48560 | .25253 | 1.92298 |
| 1.048 | 12.030 | .00000 | .58340 | .15348 | .02760 | -.00230 | .00030 | -.00070 | .53850 | .27170 | 1.98194 |
| 1.048 | 12.900 | .00000 | .63140 | .15315 | .02110 | -.00280 | .00070 | -.00030 | .58130 | .29024 | 2.00279 |
| 1.047 | 14.150 | .00000 | .70300 | .15116 | .01430 | -.00480 | .00050 | -.00060 | .64470 | .31843 | 2.02462 |
| 1.048 | 15.210 | .00000 | .75790 | .15030 | .01090 | -.00540 | .00040 | -.00080 | .69190 | .34388 | 2.01206 |
| 1.047 | 16.320 | .00000 | .83460 | .14856 | .00260 | .00060 | -.00110 | -.00210 | .75920 | .37710 | 2.01327 |
| 1.047 | 17.400 | .00000 | .90510 | .14579 | -.00860 | -.00540 | .00170 | .00210 | .82010 | .40978 | 2.00132 |
| 1.047 | 19.660 | .00000 | 1.03170 | .14144 | -.01760 | -.00130 | -.00070 | -.00100 | .92400 | .48030 | 1.92381 |
| GRADIENT | | .00000 | .06968 | -.00025 | -.01353 | .00034 | -.00016 | -.00016 | .06571 | -.00127 | .37420 |

RUN NO. 292/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1.118 | -2.150 | .00000 | -.31620 | .16790 | .16950 | -.00200 | .00150 | .00000 | -.30970 | .17964 | -1.72396 |
| 1.117 | .150 | .00000 | -.14980 | .16654 | .13150 | -.00040 | .00120 | -.00030 | -.15030 | .16615 | -.90462 |
| 1.118 | 2.220 | .00000 | -.01100 | .16626 | .09790 | -.00510 | .00040 | -.00040 | -.01740 | .15571 | -.10500 |
| 1.117 | 4.480 | .00000 | .13610 | .16508 | .07280 | -.00360 | -.00020 | -.00080 | .12280 | .17521 | .70089 |
| 1.118 | 6.710 | .00000 | .27080 | .16180 | .04880 | -.00230 | .00000 | -.00100 | .25010 | .19233 | 1.30035 |
| 1.117 | 8.890 | .01000 | .40130 | .15721 | .02910 | -.00490 | -.00080 | -.00110 | .37210 | .21734 | 1.71208 |
| 1.117 | 11.050 | .01000 | .52540 | .15230 | .01890 | -.00340 | -.00080 | -.00120 | .48640 | .25018 | 1.94422 |
| 1.117 | 12.070 | .00000 | .58720 | .15037 | .01540 | -.00160 | .00000 | -.00110 | .54270 | .26983 | 2.01124 |
| 1.117 | 12.950 | .00000 | .62990 | .14860 | .01030 | -.00080 | .00080 | -.00060 | .58050 | .28598 | 2.02985 |
| 1.117 | 14.210 | .01000 | .70390 | .14655 | .00640 | -.00370 | -.00050 | -.00030 | .64640 | .31486 | 2.05300 |
| 1.117 | 15.260 | .00000 | .76760 | .14650 | -.00180 | -.00380 | .00090 | -.00020 | .70190 | .34337 | 2.04417 |
| 1.118 | 16.430 | .00000 | .83760 | .14476 | -.00930 | -.00170 | -.00070 | -.00130 | .76240 | .37576 | 2.02896 |
| 1.118 | 17.410 | .00000 | .89370 | .14308 | -.01240 | -.00120 | -.00080 | -.00050 | .81000 | .40393 | 2.00531 |
| 1.117 | 19.630 | .00000 | 1.00540 | .13954 | -.01870 | -.00160 | -.00050 | -.00040 | .90100 | .46952 | 1.91896 |
| GRADIENT | | .00000 | .06812 | -.00040 | -.01474 | .00042 | -.00027 | -.00011 | .06515 | -.00064 | .36756 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK053) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

4.000 ELEVON = -10.000
 .000 BETA = .000
 1.000 SPDBRK = 25.000
 .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 191 / 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1.197 | -2.160 | .0000 | -.28260 | .16792 | .14520 | -.00550 | .00220 | -.00010 | -.27600 | .17845 | -1.54663 |
| 1.198 | .090 | .01000 | -.13180 | .16576 | .10840 | -.00720 | .00020 | .00000 | -.13210 | .16555 | -.79793 |
| 1.198 | 2.160 | .00000 | .00420 | .16288 | .07980 | -.00150 | .00040 | .00010 | -.00180 | .16292 | -.01105 |
| 1.198 | 4.360 | .00000 | .13770 | .16064 | .05300 | -.00270 | .00000 | .00000 | .12500 | .17069 | .73233 |
| 1.198 | 6.560 | -.01000 | .27050 | .15698 | .03030 | .00610 | .00180 | .00010 | .25090 | .18592 | 1.34953 |
| 1.197 | 8.740 | .00000 | .39480 | .15126 | .01460 | -.00170 | .00000 | .00000 | .36720 | .20949 | 1.75280 |
| 1.198 | 10.920 | .00000 | .51200 | .14655 | .00576 | -.00330 | -.00010 | .00010 | .47500 | .24089 | 1.97186 |
| 1.197 | 11.840 | .00000 | .56760 | .14506 | .00080 | -.00350 | -.00030 | .00000 | .52570 | .25843 | 2.03418 |
| 1.198 | 13.210 | .00000 | .64800 | .14417 | -.00560 | -.00460 | .00010 | -.00020 | .59790 | .28844 | 2.07290 |
| 1.198 | 14.010 | .00000 | .69110 | .14364 | -.01170 | -.00520 | .00040 | -.00010 | .63580 | .30668 | 2.07319 |
| 1.198 | 15.050 | .00000 | .74910 | .14257 | -.01600 | -.00270 | .00040 | -.00030 | .68640 | .33219 | 2.06627 |
| 1.198 | 16.190 | .00000 | .80860 | .13988 | -.02170 | -.00310 | .00010 | -.00050 | .73750 | .35979 | 2.04981 |
| 1.199 | 17.190 | .00000 | .86240 | .13803 | -.02570 | -.00310 | .00000 | -.00060 | .78300 | .38674 | 2.02462 |
| 1.198 | 19.430 | .00000 | .96920 | .13414 | -.03390 | -.00100 | .00000 | -.00070 | .86940 | .44891 | 1.93669 |
| 1.198 | GRADIENT | -.00044 | .06440 | -.00114 | -.01408 | .00084 | -.00030 | .00002 | .06147 | -.00120 | .35135 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK054) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = -5.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 124/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .597 | -2.270 | .00000 | -2.2650 | .06343 | .08430 | -.00410 | .00010 | .00000 | -.25380 | .07354 | -3.45119 |
| .597 | -.030 | .00000 | -1.5030 | .06557 | .08150 | -.00050 | .00000 | .00000 | -.15030 | .06565 | -2.28946 |
| .596 | 2.000 | .00000 | -.05200 | .06368 | .08140 | .00040 | .00000 | -.00010 | -.05420 | .06183 | -.87665 |
| .597 | 4.270 | .00000 | .05900 | .05611 | .08020 | -.00100 | .00010 | -.00060 | -.05470 | .06035 | -.90642 |
| .597 | 6.350 | .00000 | .15640 | .04651 | .07990 | -.00040 | .00000 | .00000 | .15030 | .06352 | 2.36608 |
| .596 | 8.580 | .00000 | .27120 | .03333 | .07740 | -.00070 | -.00080 | -.00030 | .26320 | .07342 | 3.58498 |
| .596 | 10.610 | .00000 | .37450 | .02009 | .07850 | .00000 | -.00040 | -.00090 | .36440 | .08870 | 4.10820 |
| .596 | 11.560 | .00000 | .42570 | .01403 | .07870 | .00000 | -.00020 | -.00100 | .41420 | .09905 | 4.18159 |
| .596 | 12.530 | .00000 | .48550 | .00932 | .08000 | .00350 | -.00040 | -.00110 | .47210 | .11345 | 4.16125 |
| .597 | 13.640 | .00000 | .54910 | .00719 | .07350 | -.00250 | .00120 | -.00110 | .53190 | .13648 | 3.89738 |
| .596 | 14.630 | .00000 | .60880 | .00661 | .07060 | -.00040 | .00010 | .00010 | .58740 | .16016 | 3.66749 |
| .597 | 15.780 | .00000 | .67540 | .00699 | .06480 | .00180 | -.00080 | .00030 | .64800 | .19040 | 3.40340 |
| .596 | 16.740 | .00000 | .73080 | .00840 | .06180 | .00480 | -.00070 | .00030 | .69740 | .21854 | 3.19124 |
| .596 | 18.980 | .00000 | .86630 | .01183 | .05100 | .00340 | -.00050 | .00000 | .81530 | .29294 | 2.78316 |
| .596 | GRADIENT | .00000 | .04826 | -.00111 | -.00058 | .00047 | .00000 | -.00009 | .04719 | -.00200 | .66910 |

RUN NO. 58/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|----------|---------|---------|---------|---------|---------|---------|---------|----------|
| .896 | -2.290 | .00000 | -1.26700 | .08662 | .10460 | .00000 | -.00030 | -.00170 | -.26330 | .09722 | -2.70831 |
| .896 | -.040 | .00000 | -1.12790 | .08720 | .09120 | .00050 | -.00030 | -.00180 | -.12780 | .08729 | -1.46410 |
| .896 | 2.020 | .00000 | .00290 | .08601 | .07870 | .00060 | -.00080 | -.00160 | -.00010 | .08606 | -.00116 |
| .896 | 4.220 | .00000 | .13170 | .08354 | .06580 | .00190 | -.00040 | -.00130 | .12520 | .09300 | 1.34617 |
| .896 | 6.450 | .00000 | .24770 | .08172 | .06270 | .00130 | -.00070 | -.00110 | .23690 | .10903 | 2.17283 |
| .895 | 8.630 | .00000 | .35020 | .07939 | .06090 | -.00050 | -.00140 | -.00140 | .33430 | .13104 | 2.55114 |
| .895 | 10.750 | .00000 | .45780 | .07932 | .05530 | .00050 | -.00090 | -.00030 | .43490 | .16332 | 2.66289 |
| .896 | 11.720 | .00000 | .51190 | .07974 | .05220 | -.00040 | -.00080 | -.00080 | .48510 | .18206 | 2.66452 |
| .896 | 13.400 | .00000 | .59420 | .09100 | .04420 | .00140 | .00090 | -.00090 | .59920 | .21650 | 2.58292 |
| .897 | 13.820 | .00000 | .61870 | .08118 | .04210 | -.00060 | -.00130 | -.00080 | .58140 | .22662 | 2.56552 |
| .896 | 14.860 | .00000 | .67160 | .08133 | .03620 | .00000 | -.00180 | -.00070 | .62920 | .25085 | 2.50431 |
| .896 | 15.990 | .00000 | .73350 | .08080 | .03650 | -.00120 | -.00090 | -.00090 | .68280 | .27973 | 2.44092 |
| .897 | 17.010 | .00000 | .78830 | .08145 | .03570 | .00100 | -.00090 | -.00050 | .72990 | .30850 | 2.36600 |
| .896 | 19.230 | .00000 | .88540 | .08306 | .03910 | -.00390 | .00040 | -.00030 | .80860 | .37004 | 2.18516 |
| .896 | GRADIENT | .00000 | .06145 | -.00048 | -.00097 | .00027 | -.00004 | .00006 | .05989 | -.00065 | .63069 |

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 15.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPD8RK = 25.000
 RUDDER = .000 BDELAP = .000

RUN NO. 127/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .597 | -2.130 | .00000 | .07940 | .08428 | -.08430 | -.00080 | .00070 | .00020 | .08250 | .08127 | 1.01513 |
| .596 | .090 | .00000 | .18570 | .08526 | -.08560 | -.00040 | .00010 | .00020 | .18550 | .08555 | 2.16828 |
| .597 | 2.110 | .00000 | .28770 | .08192 | -.08770 | -.00180 | .00030 | .00020 | .28440 | .09246 | 3.07602 |
| .597 | 4.440 | .00000 | .40710 | .07317 | -.08970 | -.00040 | .00030 | .00000 | .40020 | .10447 | 3.83091 |
| .596 | 6.520 | .00000 | .51330 | .06314 | -.09760 | -.00180 | .00030 | .00040 | .50280 | .12102 | 4.15479 |
| .597 | 8.600 | .00000 | .64180 | .05056 | -.10630 | -.00060 | .00010 | .00070 | .62700 | .14596 | 4.29560 |
| .597 | 10.710 | .00000 | .76530 | .03749 | -.11340 | .00090 | -.00050 | .00080 | .74500 | .17906 | 4.16064 |
| .597 | 11.660 | .00000 | .82110 | .03201 | -.11470 | .00090 | -.00010 | .00070 | .79770 | .19730 | 4.04315 |
| .596 | 12.710 | .00000 | .89130 | .03068 | -.11770 | .00060 | .00090 | .00040 | .86270 | .22603 | 3.81677 |
| .597 | 13.760 | .00000 | .94020 | .03389 | -.11950 | -.00050 | .00040 | .00200 | .90510 | .25655 | 3.52798 |
| .597 | 14.860 | .00000 | .98900 | .03677 | -.11770 | .00010 | -.00060 | .00210 | .94640 | .28918 | 3.27273 |
| .597 | 15.930 | .00000 | 1.03080 | .04344 | -.11950 | -.00170 | -.00080 | .00210 | .97930 | .32469 | 3.01613 |
| .597 | 16.910 | .00000 | 1.09560 | .04895 | -.12500 | -.00330 | -.00130 | .00150 | 1.03400 | .36551 | 2.82893 |
| .596 | 19.190 | .00000 | 1.25840 | .04759 | -.13610 | .00590 | -.00010 | .00090 | 1.17280 | .45858 | 2.55744 |
| | GRADIENT | .00000 | .04994 | -.00170 | -.00084 | -.00000 | -.00005 | -.00004 | .04842 | .00353 | .42986 |

RUN NO. 60/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .896 | -2.220 | .00000 | -.01290 | .10101 | -.05600 | -.00300 | .00070 | -.00030 | -.00900 | .10143 | -.08873 |
| .896 | .050 | .00000 | .13180 | .10306 | -.07080 | -.00010 | .00060 | -.00050 | .13170 | .10317 | 1.27647 |
| .897 | 2.090 | .00000 | .26700 | .10417 | -.08990 | .00020 | .00010 | .00090 | .26300 | .11384 | 2.31030 |
| .896 | 4.290 | .00000 | .41240 | .10284 | -.10890 | .00140 | -.00010 | .00070 | .40360 | .13340 | 3.02546 |
| .896 | 6.530 | .00000 | .54280 | .10304 | -.12480 | -.00030 | .00020 | .00040 | .52750 | .16410 | 3.21449 |
| .895 | 8.750 | .00000 | .65860 | .10221 | -.12960 | -.00260 | -.00070 | .00010 | .63540 | .20121 | 3.15791 |
| .896 | 10.870 | .00000 | .77160 | .10451 | -.13700 | .00110 | -.00020 | .00030 | .73800 | .24814 | 2.97408 |
| .896 | 11.810 | .00000 | .81530 | .10568 | -.13770 | -.00140 | .00020 | .00020 | .77630 | .27031 | 2.87191 |
| .897 | 13.520 | .00000 | .89830 | .11216 | -.14240 | .00180 | -.00030 | .00010 | .84720 | .31906 | 2.65529 |
| .896 | 13.960 | .00000 | .92100 | .11348 | -.14660 | -.00200 | .00060 | .00040 | .86540 | .33231 | 2.60717 |
| .896 | 14.980 | .00000 | .97560 | .11541 | -.14940 | -.00310 | -.00040 | .00010 | .91260 | .36366 | 2.50947 |
| .896 | 16.090 | .00000 | 1.02910 | .11660 | -.14990 | -.00300 | .00000 | .00000 | .95540 | .39724 | 2.40759 |
| .896 | 17.110 | .00000 | 1.07590 | .11705 | -.14570 | -.00400 | .00020 | .00140 | .99380 | .42841 | 2.31976 |
| .896 | 19.310 | .00000 | 1.14630 | .11944 | -.14380 | -.00570 | .00100 | .00150 | 1.04230 | .49178 | 2.11945 |
| | GRADIENT | .00000 | .06541 | .00031 | -.00823 | .00063 | -.00014 | -.00007 | .06346 | .00493 | .48137 |

(RUJ056) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

4.000 ELEVON = 15.000
 .000 BETA = .000
 1.000 SPDBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 196/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | ALPHA | BETA | CN | CA | CLM | CY | CYN | CBL | CL | CO | L/D |
|-------|----------|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| 1.197 | -2.140 | .00000 | -.03610 | .17103 | -.03110 | -.00280 | .00040 | -.00030 | -.02970 | .17226 | -.17242 |
| 1.197 | .090 | .00000 | .10920 | .16966 | -.06330 | -.00080 | .00070 | -.00020 | .10890 | .16983 | .64122 |
| 1.198 | 2.110 | .00000 | .23490 | .16878 | -.08960 | -.00440 | .00010 | .00020 | .22850 | .17731 | 1.28867 |
| 1.198 | 4.220 | .00000 | .36860 | .16834 | -.11590 | .00100 | .00080 | .00100 | .35520 | .19501 | 1.82147 |
| 1.198 | 6.570 | .00000 | .50530 | .16703 | -.14220 | .00020 | .00100 | .00030 | .48290 | .22375 | 2.15823 |
| 1.197 | 8.760 | .00000 | .63400 | .16301 | -.15520 | -.00120 | .00040 | -.00030 | .60180 | .25766 | 2.33560 |
| 1.198 | 10.980 | .00000 | .75230 | .16043 | -.16720 | -.00380 | .00000 | -.00050 | .70850 | .29954 | 2.36526 |
| 1.198 | 11.910 | .00000 | .81100 | .16017 | -.17030 | -.00370 | -.00020 | -.00080 | .76950 | .32409 | 2.34656 |
| 1.197 | 13.230 | .00000 | .88470 | .16045 | -.17580 | -.00230 | .00020 | -.00040 | .82440 | .35866 | 2.29853 |
| 1.198 | 14.080 | .00000 | .93080 | .16144 | -.18030 | -.00290 | .00010 | -.00060 | .86350 | .39303 | 2.25438 |
| 1.199 | 15.100 | .00000 | .98380 | .16269 | -.18450 | -.00260 | .00000 | -.00050 | .90740 | .41336 | 2.19520 |
| 1.198 | 16.220 | .00000 | 1.03710 | .16431 | -.18630 | -.00330 | -.00030 | -.00120 | .94980 | .44746 | 2.12265 |
| 1.198 | 17.230 | .00000 | 1.09010 | .16556 | -.18850 | -.00070 | .00000 | -.00110 | .99210 | .48103 | 2.06246 |
| 1.199 | 19.500 | .00000 | 1.19950 | .16792 | -.19240 | .00050 | .00020 | -.00050 | 1.07460 | .55869 | 1.92343 |
| | GRADIENT | .00000 | .06551 | -.00043 | -.01331 | .00037 | .00003 | .00008 | .06041 | .00356 | .31447 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 69

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK057) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 139/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|---------|--------|---------|---------|---------|---------|---------|--------|----------|
| .597 | -6.100 | -1.19000 | -.22670 | .06921 | .10640 | .10710 | -.01060 | .00430 | -.22650 | .06996 | -3.23750 |
| .596 | -4.070 | -1.19000 | -.22050 | .07025 | .11240 | .07490 | -.00600 | .00280 | -.22030 | .07098 | -3.10366 |
| .597 | -2.040 | -1.10000 | -.21810 | .07258 | .11400 | .03390 | -.00310 | .00120 | -.21800 | .07300 | -2.98636 |
| .597 | -1.020 | -.22000 | -.22970 | .07225 | .11550 | .01770 | -.00120 | .00040 | -.22940 | .07313 | -3.13682 |
| .597 | -.500 | -1.17000 | -.21910 | .07264 | .11500 | .00840 | -.00060 | .00010 | -.21890 | .07329 | -2.98577 |
| .597 | .000 | -1.17000 | -.22170 | .07260 | .11550 | -.00160 | .00030 | .00000 | -.22150 | .07326 | -3.02358 |
| .596 | .500 | -1.19000 | -.23090 | .07293 | .11560 | -.01200 | .00070 | -.00010 | -.23060 | .07370 | -3.12910 |
| .597 | 1.010 | -1.18000 | -.22790 | .07250 | .11540 | -.01670 | .00220 | -.00050 | -.22770 | .07322 | -3.16999 |
| .597 | 2.040 | -1.21000 | -.22910 | .07211 | .11490 | -.03670 | .00360 | -.00090 | -.22880 | .07295 | -3.13643 |
| .597 | 4.070 | -1.11000 | -.22250 | .07120 | .11130 | -.07480 | .00750 | -.00280 | -.22240 | .07163 | -3.10497 |
| .598 | 6.110 | -1.20000 | -.21770 | .06947 | .10880 | -.11240 | .01210 | -.00440 | -.21750 | .06993 | -3.11044 |
| GRADIENT | | -.00346 | -.00079 | .00008 | -.00006 | -.01814 | .00165 | -.00064 | -.00079 | .00006 | -.00807 |

RUN NO. 149/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|----------|--------|--------|---------|---------|---------|----------|--------|----------|
| .797 | -6.150 | -.05000 | -1.19930 | .07913 | .11200 | .12040 | -.01370 | .00600 | -.119920 | .07930 | -2.51186 |
| .797 | -4.090 | -1.13000 | -.20880 | .08038 | .11720 | .07740 | -.00840 | .00400 | -.20860 | .08085 | -2.57997 |
| .797 | -2.050 | -0.70000 | -.21450 | .08195 | .12020 | .03580 | -.00350 | .00210 | -.21440 | .08222 | -2.60757 |
| .797 | -1.020 | -.09000 | -.21210 | .08194 | .12130 | .01570 | -.00140 | .00100 | -.21190 | .08227 | -2.57557 |
| .796 | -.500 | -1.10000 | -.21200 | .08190 | .12180 | .00610 | -.00030 | .00050 | -.21180 | .08227 | -2.57445 |
| .796 | .000 | -1.13000 | -.21530 | .08187 | .12140 | -.00190 | .00110 | .00010 | -.21180 | .08236 | -2.61176 |
| .797 | .500 | -1.15000 | -.22040 | .08204 | .12220 | -.01250 | .00150 | .00000 | -.22020 | .08262 | -2.66532 |
| .796 | 1.030 | -1.11000 | -.21450 | .08222 | .12190 | -.02360 | .00230 | -.00040 | -.21430 | .08263 | -2.59344 |
| .797 | 2.060 | -1.20000 | -.21820 | .08230 | .12060 | -.04360 | .00440 | -.00120 | -.21800 | .08276 | -2.63422 |
| .796 | 4.100 | -0.80000 | -.21190 | .08132 | .11770 | -.08370 | .00970 | -.00340 | -.21180 | .08162 | -2.59509 |
| .797 | 6.150 | -.04000 | -.20650 | .08026 | .11440 | -.12500 | .01570 | -.00570 | -.20640 | .08040 | -2.56703 |
| GRADIENT | | .00127 | -.00060 | .00011 | .00008 | -.01957 | .00213 | -.00087 | -.00061 | .00011 | -.00404 |

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 75/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|--------|--------|---------|---------|---------|---------|--------|----------|
| .896 | -6.170 | .00000 | -.20570 | .09724 | .12650 | .12970 | -.01690 | .00820 | -.20570 | .09724 | -2.11538 |
| .896 | -4.110 | -.05000 | -.20960 | .09718 | .13180 | .08440 | -.01030 | .00570 | -.20960 | .09736 | -2.15174 |
| .896 | -2.060 | .00000 | -.21450 | .09804 | .13740 | .03780 | -.00440 | .00260 | -.21440 | .09804 | -2.18686 |
| .896 | -1.030 | .00000 | -.21200 | .09788 | .14010 | .01950 | -.00140 | .00130 | -.21200 | .09788 | -2.16592 |
| .896 | -.500 | .00000 | -.21270 | .09818 | .13970 | .00850 | -.00040 | .00080 | -.21270 | .09818 | -2.16843 |
| .895 | .000 | -.04000 | -.21660 | .09844 | .13920 | -.00240 | .00080 | .00020 | -.21650 | .09859 | -2.19594 |
| .896 | .500 | -.02000 | -.21470 | .09839 | .14030 | -.01270 | .00160 | -.00020 | -.21470 | .09846 | -2.18047 |
| .896 | 1.030 | -.02000 | -.21490 | .09844 | .13960 | -.02260 | .00290 | -.00090 | -.21480 | .09852 | -2.18038 |
| .896 | 2.060 | -.04000 | -.21670 | .09829 | .13860 | -.04400 | .00550 | -.00220 | -.21670 | .09844 | -2.20131 |
| .896 | 4.110 | -.02000 | -.21760 | .09855 | .13400 | -.09090 | .01180 | -.00550 | -.21750 | .09863 | -2.20530 |
| .896 | 6.170 | .00000 | -.21420 | .09792 | .13100 | -.13540 | .01850 | -.00810 | -.21420 | .09792 | -2.18750 |
| | GRADIENT | .00023 | -.00092 | .00015 | .00025 | -.02100 | .00260 | -.00131 | -.00092 | .00015 | -.00605 |

RUN NO. 161/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|--------|--------|---------|---------|---------|---------|--------|----------|
| .946 | -6.180 | .00000 | -.22920 | .12255 | .15830 | .13530 | -.01880 | .01190 | -.22920 | .12255 | -1.87026 |
| .946 | -4.110 | -.01000 | -.23440 | .12208 | .16480 | .08610 | -.01080 | .00760 | -.23440 | .12212 | -1.91941 |
| .946 | -2.060 | .00000 | -.23560 | .12109 | .17000 | .03930 | -.00400 | .00400 | -.23670 | .12109 | -1.95474 |
| .946 | -1.030 | .00000 | -.23580 | .12111 | .17230 | .02100 | -.00130 | .00230 | -.23580 | .12111 | -1.94699 |
| .946 | -.500 | .00000 | -.23980 | .12147 | .17350 | .00810 | -.00010 | .00150 | -.23980 | .12147 | -1.97415 |
| .946 | .010 | -.08000 | -.24410 | .12185 | .17470 | -.01670 | .00090 | .00000 | -.24390 | .12219 | -1.99606 |
| .947 | .500 | -.01000 | -.23890 | .12172 | .17400 | -.01190 | .00250 | .00000 | -.23890 | .12176 | -1.96203 |
| .946 | 1.040 | .04000 | -.23280 | .12158 | .17210 | -.03160 | .00290 | -.00070 | -.23290 | .12142 | -1.91818 |
| .946 | 2.070 | -.03000 | -.23860 | .12216 | .17240 | -.04760 | .00590 | -.00240 | -.23860 | .12228 | -1.95118 |
| .946 | 4.120 | -.01000 | -.24050 | .12389 | .16680 | -.09410 | .01290 | -.00620 | -.24040 | .12393 | -1.93977 |
| .946 | 6.180 | .05000 | -.23360 | .12364 | .15910 | -.14130 | .02150 | -.01060 | -.23370 | .12344 | -1.89329 |
| | GRADIENT | -.00059 | -.00057 | .00023 | .00029 | -.02188 | .00274 | -.00164 | -.00056 | .00023 | -.00090 |

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK058) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.000 ELEVON = -10.000
 AILRON = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 228/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|----------|--------|--------|---------|---------|---------|---------|--------|---------|
| 1.198 | -6.160 | -1.4000 | -1.14580 | .16704 | .11080 | .11910 | -.01500 | .01180 | -.14540 | .16740 | -.86860 |
| 1.198 | -4.090 | -1.6000 | -1.14770 | .16492 | .11120 | .07900 | -.01040 | .00730 | -.14720 | .16533 | -.89033 |
| 1.198 | -2.050 | -1.4000 | -1.14520 | .16481 | .11090 | .03540 | -.00450 | .00290 | -.14480 | .16516 | -.87670 |
| 1.199 | -1.030 | -1.1000 | -1.13990 | .16504 | .11140 | .02010 | -.00110 | .00110 | -.13960 | .16531 | -.84448 |
| 1.198 | -.500 | -1.3000 | -1.14380 | .16504 | .11190 | .00610 | -.00050 | .00030 | -.14340 | .16537 | -.86717 |
| 1.197 | .000 | -1.2000 | -1.14130 | .16548 | .11140 | -.00040 | -.00130 | -.00060 | -.14090 | .16578 | -.84994 |
| 1.198 | .500 | -1.5000 | -1.14480 | .16539 | .11250 | -.01190 | .00130 | -.00130 | -.14440 | .16577 | -.87109 |
| 1.198 | 1.020 | -1.6000 | -1.14360 | .16547 | .11170 | -.02050 | .00290 | -.00240 | -.14310 | .16587 | -.86272 |
| 1.197 | 2.070 | -1.8000 | -1.14940 | .16563 | .11380 | -.04610 | .00520 | -.00430 | -.14890 | .16610 | -.89646 |
| 1.198 | 4.100 | -1.3000 | -1.14230 | .16561 | .11380 | -.08410 | .01140 | -.00870 | -.14190 | .16593 | -.85517 |
| 1.198 | 6.170 | -1.4000 | -1.15050 | .16762 | .11390 | -.12700 | .01620 | -.01300 | -.15010 | .16799 | -.89352 |
| | GRADIENT | -.00048 | .00020 | .00011 | .00039 | -.01986 | .00256 | -.00190 | .00020 | .00012 | .00184 |

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK059) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 140/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|--------|--------|---------|---------|---------|---------|--------|---------|
| .596 | -6.110 | 4.79000 | .01650 | .05851 | .10500 | .11120 | -.01080 | .00920 | .01160 | .05968 | .19436 |
| .597 | -4.070 | 4.71000 | .00830 | .06117 | .10750 | .07290 | -.00590 | .00580 | .00330 | .06164 | .05353 |
| .597 | -2.040 | 4.73000 | .00570 | .06218 | .11160 | .03590 | -.00320 | .00310 | .00050 | .06244 | .00801 |
| .597 | -1.020 | 4.73000 | .00420 | .06203 | .11430 | .01820 | -.00130 | .00160 | -.00090 | .06217 | -.01449 |
| .597 | -.500 | 4.69000 | .00750 | .05151 | .11390 | .00130 | -.00010 | .00100 | -.00040 | .06192 | .03876 |
| .596 | .000 | 4.69000 | .00040 | .06231 | .11250 | -.00230 | -.00050 | .00010 | -.00460 | .06213 | -.07403 |
| .596 | .500 | 4.68000 | .00540 | .06217 | .11370 | -.01070 | .00070 | .00030 | -.00240 | .06240 | .00481 |
| .596 | 1.020 | 4.64000 | .00530 | .06276 | .11180 | -.01960 | .00150 | -.00110 | .00020 | .06299 | .00318 |
| .597 | 2.040 | 4.68000 | .00500 | .06259 | .11140 | -.03770 | .00320 | -.00260 | -.00010 | .06279 | -.00159 |
| .597 | 4.060 | 4.77000 | .01490 | .06081 | .10910 | -.07180 | .00750 | -.00600 | -.00010 | .06280 | -.00184 |
| .597 | 6.110 | 4.96000 | .01710 | .05946 | .10740 | -.11210 | .01100 | -.00950 | .01200 | .05069 | .19771 |
| | GRADIENT | .00102 | .00058 | .00001 | .00009 | -.01795 | .00161 | -.00143 | .00057 | .00006 | .00926 |

LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)

(RUK059) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000
 ATLIRON = .000 ALPHA = 5.000
 CRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 150/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|--------|--------|---------|---------|---------|---------|--------|---------|
| .797 | -6.150 | 4.89000 | .06270 | .06863 | .10300 | .11730 | -.01280 | .01090 | .05670 | .07372 | .76907 |
| .797 | -4.090 | 4.86000 | .05590 | .06915 | .10550 | .07550 | -.00770 | .00730 | .04980 | .07364 | .67629 |
| .796 | -2.050 | 4.84000 | .05000 | .06982 | .10820 | .03580 | -.00340 | .00350 | .04400 | .07379 | .59629 |
| .797 | -1.020 | 4.82000 | .04540 | .07047 | .11010 | .01540 | -.00140 | .00190 | .03930 | .07404 | .53083 |
| .797 | -.500 | 4.78000 | .04830 | .07030 | .11140 | .00770 | -.00060 | .00090 | .04230 | .07408 | .57100 |
| .797 | .000 | 4.79000 | .04810 | .07039 | .11120 | -.00260 | .00020 | .00000 | .04200 | .07416 | .56634 |
| .797 | .500 | 4.80000 | .04770 | .07053 | .11150 | -.01270 | .00110 | -.00070 | .04160 | .07427 | .56009 |
| .797 | 1.020 | 4.75000 | .04650 | .07071 | .11080 | -.02140 | .00220 | -.00180 | .04040 | .07432 | .54361 |
| .797 | 2.060 | 4.82000 | .04690 | .07051 | .11000 | -.04030 | .00410 | -.00330 | .04080 | .07420 | .54985 |
| .795 | 4.100 | 4.83000 | .04530 | .07023 | .10600 | -.08210 | .00910 | -.00720 | .03980 | .07385 | .53896 |
| .797 | 6.150 | 4.94000 | .05280 | .06969 | .10400 | -.12140 | .01460 | -.01110 | .04660 | .07398 | .62992 |
| | GRADIENT | -.00504 | -.00104 | .00014 | .00015 | -.01906 | .00199 | -.00175 | -.00105 | .00005 | -.01458 |

RUN NO. 76/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|--------|--------|---------|---------|---------|---------|--------|---------|
| .896 | -6.170 | 5.60000 | .14690 | .08822 | .08650 | .12740 | -.01600 | .01330 | .13760 | .10213 | 1.34725 |
| .896 | -4.110 | 5.48000 | .13910 | .08763 | .09050 | .08300 | -.00990 | .00920 | .13010 | .10051 | 1.29436 |
| .896 | -2.060 | 5.44000 | .13100 | .08907 | .09630 | .04050 | -.00400 | .00430 | .12200 | .10109 | 1.20687 |
| .896 | -1.030 | 5.43000 | .13170 | .08898 | .09730 | .01950 | -.00170 | .00210 | .12270 | .10104 | 1.21433 |
| .896 | -.500 | 5.40000 | .12650 | .09001 | .09910 | .00950 | -.00070 | .00120 | .11750 | .10152 | 1.15746 |
| .896 | .000 | 5.41000 | .12970 | .08967 | .09790 | -.00140 | .00020 | .00000 | .12050 | .10150 | 1.18819 |
| .896 | .510 | 5.37000 | .12050 | .09022 | .09710 | -.01320 | .00120 | -.00070 | .11190 | .10114 | 1.10540 |
| .896 | 1.030 | 5.40000 | .12940 | .08939 | .09580 | -.02160 | .00250 | -.00210 | .12040 | .10117 | 1.19007 |
| .896 | 2.070 | 5.42000 | .12870 | .08943 | .09530 | -.04300 | .00450 | -.00450 | .11960 | .10119 | 1.18197 |
| .896 | 4.110 | 5.52000 | .13430 | .08907 | .09400 | -.06540 | .01080 | -.01010 | .12510 | .10158 | 1.23159 |
| .896 | 6.170 | 5.54000 | .13400 | .08981 | .09020 | -.12960 | .01710 | -.01450 | .12470 | .10233 | 1.21864 |
| | GRADIENT | .00170 | -.00066 | .00016 | .00027 | -.02052 | .00240 | -.00229 | -.00068 | .00010 | -.00803 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AIRLON =
 GRIT =
 RUDDER =

4.500 ELEVON = -10.000
 .000 ALPHA = 5.000
 1.000 SPDBRK = 25.000
 .000 BOFLAP = .000

RUN NO. 162/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|--------|---------|---------|---------|--------|--------|--------|-----|
| .947 | -6.180 | 5.10000 | .11040 | .11552 | .13320 | -.01880 | .01560 | .09970 | .12488 | .79839 | |
| .946 | -4.110 | 4.99000 | .10540 | .11478 | .08690 | -.01160 | .01000 | .09500 | .12351 | .76915 | |
| .946 | -2.060 | 4.97000 | .10220 | .11514 | .04240 | -.00560 | .00430 | .09180 | .12356 | .74295 | |
| .946 | -1.030 | 4.98000 | .10340 | .11503 | .02050 | -.00240 | .00200 | .09300 | .12357 | .75260 | |
| .947 | -.510 | 4.95000 | .10390 | .11503 | .01100 | -.00060 | .00100 | .09360 | .12357 | .75749 | |
| .946 | .000 | 4.93000 | .09930 | .11530 | -.00200 | .00030 | -.00020 | .08890 | .12344 | .72020 | |
| .946 | .500 | 4.93000 | .10500 | .11455 | -.01170 | .00190 | -.00140 | .09470 | .12325 | .76836 | |
| .946 | 1.030 | 4.98000 | .10390 | .11527 | -.02420 | .00360 | -.00270 | .09350 | .12385 | .75492 | |
| .946 | 2.070 | 4.99000 | .10330 | .11564 | -.04790 | .00640 | -.00520 | .09290 | .12419 | .74807 | |
| .946 | 4.120 | 5.05000 | .10690 | .11545 | -.09140 | .01330 | -.01080 | .09630 | .12443 | .77394 | |
| .946 | 6.190 | 5.12000 | .10460 | .11569 | -.13780 | .02020 | -.01650 | .09380 | .12456 | .75303 | |
| | GRADIENT | .00777 | .00021 | .00008 | -.00005 | -.00217 | .00299 | .00019 | .00012 | .00085 | |

RUN NO. 286/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|--------|---------|---------|---------|---------|--------|---------|-----|
| .977 | -6.180 | 5.13000 | .12210 | .13501 | .13730 | -.02030 | .01680 | .10950 | .14539 | .75316 | |
| .978 | -4.110 | 5.04000 | .12060 | .13348 | .09070 | -.01260 | .01030 | .10840 | .14356 | .75509 | |
| .977 | -2.060 | 5.07000 | .11940 | .13272 | .04200 | -.00620 | .00420 | .10720 | .14275 | .75095 | |
| .977 | -1.030 | 5.00000 | .11570 | .13247 | .02150 | -.00260 | .00160 | .10370 | .14205 | .73003 | |
| .977 | -.510 | 5.04000 | .11860 | .13233 | .01280 | -.00110 | .00030 | .10650 | .14224 | .74875 | |
| .978 | .000 | 5.01000 | .11620 | .13331 | .00140 | -.00020 | -.00060 | .10410 | .14295 | .72823 | |
| .978 | .500 | 5.06000 | .12160 | .13527 | -.00760 | .00110 | -.00190 | .10930 | .14348 | .76180 | |
| .978 | 1.030 | 5.04000 | .11760 | .13347 | -.02100 | .00180 | -.00310 | .10540 | .14329 | .73360 | |
| .978 | 2.070 | 5.04000 | .11570 | .13399 | -.04530 | .00500 | -.00570 | .10350 | .14364 | .72057 | |
| .977 | 4.100 | 5.08000 | .11760 | .13353 | -.08740 | .01340 | -.01200 | .10530 | .14342 | .73421 | |
| .978 | 6.180 | 5.13000 | .11760 | .13615 | -.13910 | .01990 | -.01850 | .10490 | .14612 | .71790 | |
| | GRADIENT | .00342 | -.00037 | .00010 | -.00010 | .00302 | -.00263 | -.00039 | .00007 | -.00304 | |

PARAMETRIC DATA

(RUK059) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RUN NO. 243/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|--------|--------|---------|---------|---------|---------|---------|---------|
| 1.046 | -6.190 | 4.82000 | .13240 | .16624 | .08700 | .13340 | -.01840 | .01550 | .11790 | .17678 | .66694 |
| 1.047 | -4.120 | 4.81000 | .13650 | .16557 | .08620 | .08950 | -.01250 | .01050 | .12210 | .17643 | .69205 |
| 1.047 | -2.070 | 4.81000 | .14120 | .16573 | .08780 | .04380 | -.00540 | .00460 | .12680 | .17699 | .71644 |
| 1.047 | -1.030 | 4.76000 | .13350 | .16553 | .08930 | .02000 | -.00230 | .00230 | .11930 | .17604 | .67770 |
| 1.047 | -.500 | 4.76000 | .13340 | .16531 | .08990 | .00810 | -.00060 | .00100 | .11920 | .17581 | .67801 |
| 1.047 | .000 | 4.76000 | .13260 | .16527 | .09030 | -.00350 | .00090 | -.00020 | .11840 | .17570 | .67386 |
| 1.048 | .500 | 4.78000 | .13390 | .16561 | .08970 | -.01130 | .00230 | -.00160 | .11960 | .17619 | .67881 |
| 1.048 | 1.030 | 4.78000 | .13540 | .16521 | .08910 | -.02340 | .00380 | -.00310 | .12110 | .17592 | .68839 |
| 1.048 | 2.070 | 4.74000 | .13200 | .16563 | .08930 | -.04730 | .00700 | -.00610 | .11790 | .17597 | .67000 |
| 1.047 | 4.130 | 4.82000 | .13490 | .16589 | .08760 | -.09400 | .01370 | -.01190 | .12050 | .17664 | .68218 |
| 1.048 | 6.190 | 4.90000 | .13650 | .16752 | .08750 | -.13540 | .01950 | -.01710 | .12170 | .17857 | .68154 |
| | GRADIENT | -.00161 | -.00052 | .00002 | .00019 | -.02211 | .00313 | -.00268 | -.00051 | -.00003 | -.00277 |

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK060) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RUN NO. 229/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|--------|--------|---------|---------|---------|---------|--------|---------|
| 1.197 | -6.160 | 4.58000 | .14250 | .15782 | .05350 | .11700 | -.01290 | .01040 | .12940 | .16869 | .76707 |
| 1.198 | -4.110 | 4.59000 | .15080 | .15790 | .05340 | .07890 | -.00650 | .00580 | .13770 | .16946 | .81257 |
| 1.198 | -2.050 | 4.54000 | .15030 | .15785 | .05070 | .03340 | -.00350 | .00190 | .13730 | .16325 | .81122 |
| 1.198 | -1.010 | 4.48000 | .14540 | .15958 | .05060 | .01810 | -.00110 | .00050 | .13350 | .17053 | .78286 |
| 1.198 | -.490 | 4.52000 | .14800 | .15970 | .05000 | .00580 | -.00130 | .00010 | .13490 | .17087 | .78950 |
| 1.199 | .000 | 4.48000 | .14790 | .15968 | .05120 | -.00250 | .00060 | -.00070 | .13490 | .17074 | .79007 |
| 1.198 | .510 | 4.46000 | .14570 | .15984 | .05140 | -.01110 | .00600 | -.00140 | .13280 | .17069 | .77804 |
| 1.198 | 1.030 | 4.47000 | .14420 | .15983 | .05060 | -.01980 | .00100 | -.00240 | .13130 | .17058 | .76972 |
| 1.197 | 2.060 | 4.47000 | .14500 | .15937 | .05210 | -.03550 | .00310 | -.00380 | .13210 | .17019 | .77621 |
| 1.198 | 4.110 | 4.51000 | .14080 | .15884 | .05400 | -.07870 | .00720 | -.00730 | .12780 | .16942 | .75434 |
| 1.198 | 6.170 | 4.57000 | .14090 | .15945 | .05470 | -.11810 | .01350 | -.01210 | .12770 | .17017 | .75043 |
| | GRADIENT | -.01146 | -.00124 | .00015 | .00013 | -.01857 | .00162 | -.00155 | -.00122 | .00004 | -.00738 |

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 AILRON = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.8000 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 141/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|---------|--------|---------|---------|---------|--------|--------|---------|
| .597 | -6.110 | 9.86000 | .26470 | .03046 | .10740 | .10740 | -.01040 | .01500 | .25560 | .07534 | 3.39273 |
| .597 | -4.060 | 9.81000 | .24810 | .03253 | .11140 | .06720 | -.00660 | .00980 | .23890 | .07433 | 3.21422 |
| .596 | -2.040 | 9.85000 | .25580 | .03311 | .11610 | .03320 | -.00340 | .00430 | .24630 | .07638 | 3.22460 |
| .597 | -1.010 | 9.85000 | .25110 | .03347 | .11740 | .01640 | -.00150 | .00240 | .24160 | .07593 | 3.18179 |
| .597 | -.500 | 9.82000 | .24970 | .03270 | .11660 | .00890 | -.00080 | .00080 | .24050 | .07481 | 3.21489 |
| .596 | .000 | 9.81000 | .24480 | .03392 | .11670 | -.00060 | -.00030 | -.00030 | .23550 | .07513 | 3.13442 |
| .596 | .500 | 9.83000 | .25670 | .03296 | .11750 | -.00950 | .00030 | -.00200 | .24730 | .07630 | 3.24110 |
| .596 | 1.010 | 9.81000 | .25060 | .03352 | .11640 | -.01640 | .00130 | -.00290 | .24120 | .07573 | 3.18611 |
| .597 | 2.050 | 9.80000 | .25280 | .03386 | .11550 | -.03760 | .00220 | -.00610 | .24330 | .07639 | 3.18477 |
| .597 | 4.070 | 9.88000 | .25640 | .03192 | .11320 | -.07210 | .00690 | -.01130 | .24710 | .07544 | 3.27540 |
| .596 | 6.110 | 9.96000 | .27510 | .02969 | .10960 | -.10870 | .01110 | -.01690 | .26580 | .07682 | 3.45986 |
| | GRADIENT | .00335 | .00070 | -.00002 | .00013 | -.01714 | .00159 | -.00259 | .00069 | .00012 | .00419 |

RUN NO. 151/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .797 | -6.150 | 10.02000 | .34120 | .05350 | .08760 | .11480 | -.01230 | .01390 | .32660 | .11205 | 2.91477 |
| .797 | -4.090 | 10.07000 | .34510 | .05402 | .09120 | .07500 | -.00780 | .00930 | .33040 | .11353 | 2.91027 |
| .797 | -2.050 | 10.01000 | .33270 | .05523 | .09410 | .03340 | -.00420 | .00470 | .31810 | .11222 | 2.83463 |
| .796 | -.490 | 9.92000 | .32810 | .05512 | .09590 | .00520 | -.00130 | .00110 | .31370 | .11082 | 2.83075 |
| .796 | .000 | 9.92000 | .33380 | .05464 | .09950 | -.00150 | -.00010 | .00000 | .31940 | .11133 | 2.86900 |
| .797 | .510 | 9.96000 | .32870 | .05533 | .09520 | -.01250 | .00040 | -.00120 | .31420 | .11135 | 2.82178 |
| .797 | 1.020 | 9.93000 | .33270 | .05475 | .09700 | -.01910 | .00150 | -.00260 | .31820 | .11130 | 2.85888 |
| .796 | 2.060 | 9.97000 | .33790 | .05415 | .09610 | -.03890 | .00350 | -.00550 | .32340 | .11183 | 2.89179 |
| .796 | 4.100 | 10.08000 | .34400 | .05349 | .09250 | -.07830 | .00750 | -.01090 | .32930 | .11287 | 2.91746 |
| .796 | 4.910 | 9.97000 | .09810 | .05504 | .05740 | .04920 | -.00170 | .00240 | .08710 | .07119 | 1.22343 |
| .796 | 6.160 | 10.08000 | .34040 | .05276 | .08760 | -.11910 | .01190 | -.01570 | .32590 | .11152 | 2.92226 |
| | GRADIENT | -.00201 | -.01577 | -.00003 | -.00234 | -.00698 | .00116 | -.00148 | -.01553 | -.00278 | -.10750 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK061) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 376.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 ALLRON = .000 ALPHA = 10.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 77/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|--------|--------|--------|---------|---------|---------|--------|--------|---------|
| .896 | -6.190 | 10.89000 | .43610 | .08502 | .07260 | .12880 | -.01210 | .01460 | .41210 | .16588 | 2.48435 |
| .896 | -4.110 | 10.81000 | .42250 | .08571 | .07590 | .08340 | -.00850 | .00980 | .39890 | .16343 | 2.44080 |
| .896 | -2.060 | 10.81000 | .42550 | .08594 | .08070 | .03900 | -.00380 | .00440 | .40180 | .16422 | 2.44674 |
| .896 | -1.020 | 10.79000 | .41880 | .08704 | .07990 | .01730 | -.00200 | .00200 | .39510 | .16390 | 2.41055 |
| .896 | -.000 | 10.78000 | .42680 | .08712 | .08030 | .00810 | -.00090 | .00070 | .40290 | .16541 | 2.43576 |
| .896 | .510 | 10.79000 | .41910 | .08698 | .08230 | -.00150 | -.00050 | -.00020 | .39540 | .16390 | 2.41242 |
| .897 | 1.030 | 10.82000 | .42110 | .08715 | .08160 | -.01310 | .00070 | -.00120 | .39730 | .16465 | 2.41298 |
| .896 | 2.070 | 10.80000 | .42400 | .08689 | .08340 | -.02130 | .00130 | -.00220 | .40020 | .16487 | 2.42736 |
| .897 | 4.120 | 10.89000 | .42340 | .08645 | .08210 | -.04350 | .00280 | -.00510 | .39960 | .16426 | 2.43279 |
| .896 | 6.190 | 10.93000 | .43070 | .08609 | .07890 | -.08630 | .00810 | -.01070 | .40670 | .16591 | 2.45134 |
| GRADIENT | .00776 | .00071 | .00006 | .00006 | .07440 | -.13050 | .01230 | -.01600 | .41140 | .16588 | 2.48016 |
| | | | | | .00043 | -.02042 | .00191 | -.00243 | .00067 | .00024 | .00045 |

RUN NO. 167/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|--------|---------|---------|---------|---------|---------|--------|--------|---------|
| .947 | -6.170 | 10.20000 | .43950 | .10613 | .06460 | .13040 | -.02040 | .01540 | .41370 | .18228 | 2.26957 |
| .946 | -4.110 | 10.13000 | .44090 | .10479 | .06500 | .08590 | -.01300 | .00930 | .41560 | .18070 | 2.29991 |
| .946 | -2.060 | 10.10000 | .43670 | .10584 | .06470 | .04030 | -.00570 | .00340 | .41140 | .18078 | 2.27566 |
| .946 | -1.020 | 10.09000 | .43620 | .10524 | .06660 | .02060 | -.00370 | .00090 | .41100 | .18003 | 2.28292 |
| .946 | -.490 | 10.06000 | .43370 | .10604 | .06480 | .00950 | -.00290 | -.00040 | .40850 | .18017 | 2.26733 |
| .947 | .000 | 10.06000 | .43750 | .10589 | .06550 | .00120 | -.00110 | -.00180 | .41210 | .18065 | 2.28122 |
| .948 | .510 | 10.08000 | .43630 | .10609 | .06460 | -.00950 | -.00070 | -.00280 | .41090 | .18081 | 2.27249 |
| .947 | 1.030 | 10.07000 | .43570 | .10620 | .06380 | -.01840 | .00030 | -.00390 | .41040 | .18075 | 2.27058 |
| .947 | 2.070 | 10.12000 | .44120 | .10534 | .06450 | -.03980 | .00300 | -.00660 | .41580 | .18122 | 2.29439 |
| .947 | 4.120 | 10.19000 | .44460 | .10473 | .06240 | -.08880 | .01070 | -.01290 | .41910 | .18173 | 2.35612 |
| .946 | 6.170 | 10.19000 | .43850 | .10607 | .06420 | -.12980 | .01870 | -.01880 | .41280 | .18197 | 2.26847 |
| GRADIENT | .00517 | .00056 | .00001 | -.00001 | -.00031 | -.02075 | .00268 | -.00263 | .00053 | .00014 | .00120 |

(RUK061) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 287/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|---------|--------|--------|---------|---------|---------|---------|--------|---------|
| .977 | -6.170 | 10.0000 | .43660 | .12795 | .06100 | .13240 | -.02060 | .01820 | .40770 | .20182 | 2.02011 |
| .977 | -4.110 | 9.91000 | .43360 | .12591 | .06240 | .08650 | -.01320 | .01140 | .40550 | .19865 | 2.04123 |
| .977 | -2.060 | 9.96000 | .43600 | .12688 | .06260 | .04220 | -.00600 | .00460 | .40750 | .20038 | 2.03365 |
| .978 | -1.020 | 9.92000 | .43620 | .12628 | .06550 | .02160 | -.00350 | .00150 | .40790 | .19954 | 2.04423 |
| .978 | -.500 | 9.88000 | .43090 | .12655 | .06510 | .01260 | -.00240 | -.00020 | .40270 | .19861 | 2.02760 |
| .978 | .000 | 9.84000 | .42980 | .12642 | .06570 | .00270 | -.00120 | -.00160 | .40130 | .19801 | 2.02968 |
| .977 | .510 | 9.90000 | .43000 | .12655 | .06480 | -.00900 | -.00020 | -.00300 | .40180 | .19860 | 2.02321 |
| .978 | 1.030 | 9.89000 | .43090 | .12740 | .06500 | -.02000 | .00080 | -.00430 | .40260 | .19952 | 2.01787 |
| .978 | 2.060 | 9.92000 | .43410 | .12786 | .06520 | -.03960 | .00440 | -.00730 | .40560 | .20073 | 2.02060 |
| .978 | 4.110 | 9.96000 | .43520 | .12819 | .06380 | -.08640 | .01250 | -.01450 | .40640 | .20153 | 2.01657 |
| .978 | 6.170 | 10.02000 | .44360 | .12955 | .06350 | -.13050 | .01990 | -.02100 | .41450 | .20479 | 2.02401 |
| GRADIENT | | .00228 | -.00007 | .00028 | .00023 | -.02078 | .00295 | -.00308 | -.00014 | .00028 | -.00351 |

RUN NO. 244/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|--------|--------|--------|---------|---------|---------|--------|--------|---------|
| 1.047 | -6.190 | 9.77000 | .44400 | .16122 | .04330 | .12580 | -.01030 | .01780 | .41020 | .23423 | 1.75130 |
| 1.048 | -4.110 | 9.71000 | .44330 | .16064 | .04150 | .06350 | -.01230 | .01220 | .40990 | .23311 | 1.75843 |
| 1.047 | -2.070 | 9.67000 | .44040 | .15832 | .04150 | .04430 | -.00650 | .00620 | .40750 | .23005 | 1.77139 |
| 1.048 | -1.020 | 9.70000 | .44320 | .15680 | .04210 | .01950 | -.00350 | .00280 | .41040 | .22923 | 1.79032 |
| 1.047 | -.500 | 9.70000 | .44470 | .15640 | .04160 | .00960 | -.00170 | .00070 | .41200 | .22909 | 1.79841 |
| 1.048 | .010 | 9.68000 | .43880 | .15708 | .04110 | -.00410 | -.00040 | -.00070 | .40610 | .22863 | 1.77627 |
| 1.048 | .510 | 9.69000 | .44240 | .15740 | .04050 | -.01410 | .00180 | -.00270 | .40960 | .22962 | 1.78393 |
| 1.047 | 1.030 | 9.69000 | .43900 | .15944 | .04040 | -.02550 | .00300 | -.00450 | .40600 | .23007 | 1.76467 |
| 1.047 | 2.070 | 9.72000 | .44340 | .15940 | .04170 | -.04770 | .00710 | -.00800 | .41020 | .23197 | 1.76831 |
| 1.048 | 4.120 | 9.77000 | .44630 | .16166 | .04190 | -.08640 | .01260 | -.01370 | .41240 | .23505 | 1.75452 |
| 1.047 | 6.180 | 9.86000 | .44520 | .16246 | .04370 | -.12630 | .01830 | -.01950 | .41080 | .23630 | 1.73849 |
| GRADIENT | | .00744 | .00029 | .00019 | .00001 | -.02104 | .00311 | -.00322 | .00023 | .00029 | -.00124 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK061) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 297/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|--------|--------|--------|---------|---------|---------|--------|--------|---------|
| 1.116 | -4.110 | 9.94000 | .46260 | .15611 | .02700 | .07520 | -.00990 | .01090 | .42870 | .23362 | 1.83504 |
| 1.117 | -2.070 | 9.86000 | .45630 | .15541 | .02500 | .03940 | -.00400 | .00490 | .42290 | .23125 | 1.82874 |
| 1.117 | -1.020 | 9.84000 | .45790 | .15461 | .02500 | .01570 | -.00210 | .00190 | .42480 | .23059 | 1.84224 |
| 1.117 | -.500 | 9.85000 | .45730 | .15430 | .02480 | .00760 | -.00090 | .00060 | .42410 | .23026 | 1.84187 |
| 1.117 | .000 | 9.89000 | .46330 | .15430 | .02540 | .00000 | .00030 | -.00080 | .42990 | .23158 | 1.85636 |
| 1.117 | .510 | 9.84000 | .45800 | .15496 | .02490 | -.01280 | .00030 | -.00190 | .42470 | .23095 | 1.83892 |
| 1.116 | 1.030 | 9.92000 | .46340 | .15517 | .02590 | -.02130 | .00190 | -.00330 | .42970 | .23268 | 1.84673 |
| 1.117 | 2.060 | 9.88000 | .45940 | .15621 | .02590 | -.03830 | .00460 | -.00640 | .42570 | .23272 | 1.82924 |
| 1.117 | 4.130 | 9.94000 | .46300 | .15749 | .02800 | -.08010 | .00840 | -.01270 | .42890 | .23505 | 1.82474 |
| 1.117 | 6.200 | 10.09000 | .46770 | .15842 | .02970 | -.12110 | .01350 | -.01880 | .43270 | .23791 | 1.81877 |
| | GRADIENT | .00264 | .00031 | .00018 | .00015 | -.01882 | .00217 | -.00282 | .00027 | .00025 | -.00085 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK062) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.000 ELEVON = -10.000
 AILRON = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 230/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|--------|--------|---------|---------|---------|---------|--------|---------|
| 1.198 | -6.160 | 9.47000 | .43370 | .14979 | .01160 | .10350 | -.00790 | .01250 | .40310 | .21911 | 1.83975 |
| 1.198 | -4.100 | 9.48000 | .43670 | .14817 | .01060 | .06680 | -.00500 | .00750 | .40630 | .21807 | 1.86314 |
| 1.198 | -2.060 | 9.43000 | .43260 | .14926 | .01110 | .03520 | -.00190 | .00350 | .40230 | .21812 | 1.84439 |
| 1.198 | -1.020 | 9.41000 | .43110 | .14858 | .01150 | .01610 | -.00140 | .00150 | .40100 | .21706 | 1.84738 |
| 1.198 | -.490 | 9.39000 | .42690 | .14899 | .01080 | .00470 | -.00140 | .00060 | .39670 | .21663 | 1.83125 |
| 1.197 | .000 | 9.38000 | .43180 | .14879 | .01180 | -.00150 | -.00030 | -.00050 | .40170 | .21718 | 1.84965 |
| 1.198 | .500 | 9.40000 | .42800 | .14930 | .01220 | -.00870 | .00020 | -.00130 | .39790 | .21720 | 1.83196 |
| 1.199 | 1.040 | 9.36000 | .42980 | .14991 | .01310 | -.02110 | .00010 | -.00220 | .39970 | .21782 | 1.83504 |
| 1.198 | 2.070 | 9.35000 | .42540 | .15059 | .01190 | -.03960 | .00130 | -.00480 | .39520 | .21770 | 1.81533 |
| 1.198 | 4.110 | 9.43000 | .42780 | .15159 | .01210 | -.06960 | .00410 | -.00910 | .39720 | .21963 | 1.80847 |
| 1.198 | 6.170 | 9.50000 | .43270 | .15171 | .01450 | -.10680 | .00810 | -.01430 | .40170 | .22105 | 1.81727 |
| | GRADIENT | -.00930 | -.00116 | .00041 | .00023 | -.01693 | .00103 | -.00201 | -.00118 | .00015 | -.00662 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK063) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 163/ 0 RN/L = 7.79 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|---------|---------|---------|---------|---------|--------|--------|---------|
| .900 | -2.100 | 10.50000 | .40470 | .08516 | .08950 | .03490 | -.00310 | .00370 | .38240 | .15748 | 2.42817 |
| .900 | -1.030 | 10.53000 | .40380 | .08585 | .09020 | .01350 | -.00200 | .00140 | .38130 | .15820 | 2.41026 |
| .900 | -.490 | 10.50000 | .40120 | .08526 | .09030 | .00400 | -.00090 | .00050 | .37900 | .15695 | 2.41486 |
| .900 | .010 | 10.50000 | .40420 | .08565 | .08930 | -.00480 | -.00010 | -.00050 | .38180 | .15788 | 2.41836 |
| .900 | .540 | 10.52000 | .40320 | .08587 | .08910 | -.01630 | .00010 | -.00230 | .38080 | .15804 | 2.40948 |
| .900 | 1.070 | 10.49000 | .40230 | .08537 | .08920 | -.02390 | .00110 | -.00350 | .38000 | .15719 | 2.41750 |
| .900 | 2.130 | 10.53000 | .41000 | .08507 | .08740 | -.04710 | .00300 | -.00620 | .38760 | .15856 | 2.44442 |
| .900 | 4.230 | 10.64000 | .41760 | .08375 | .08060 | -.09080 | .00810 | -.01160 | .39500 | .15941 | 2.47781 |
| .899 | 6.340 | 10.69000 | .41960 | .08368 | .07730 | -.13590 | .01240 | -.01640 | .39680 | .16006 | 2.47905 |
| | GRADIENT | -.01878 | .00221 | -.00025 | -.00140 | -.01974 | .00175 | -.00245 | .00217 | .00029 | .00921 |

RN/L = 8.000 ELEVON = -10.000
 AILRON = .000 ALPHA = 10.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 142/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .596 | -6.110 | 14.54000 | .52530 | .00736 | .10490 | .10570 | -.00960 | .01620 | .50660 | .13900 | 3.64450 |
| .597 | -4.070 | 14.47000 | .51530 | .00945 | .10870 | .07110 | -.00610 | .00990 | .49660 | .13791 | 3.60090 |
| .597 | -2.040 | 14.39000 | .50170 | .01115 | .11430 | .03210 | -.00260 | .00430 | .48320 | .13548 | 3.56650 |
| .596 | -1.010 | 14.43000 | .50100 | .01125 | .11540 | .01510 | -.00060 | .00170 | .48240 | .13574 | 3.55378 |
| .596 | -.500 | 14.36000 | .50200 | .01213 | .11340 | .00580 | .00000 | .00010 | .48330 | .13625 | 3.54706 |
| .598 | .000 | 14.35000 | .49710 | .01226 | .11690 | -.00280 | .00130 | -.00090 | .47860 | .13508 | 3.54306 |
| .597 | .490 | 14.35000 | .50540 | .01207 | .11560 | -.00800 | .00190 | -.00210 | .48660 | .13695 | 3.55302 |
| .596 | 1.010 | 14.34000 | .50900 | .01232 | .11550 | -.01840 | .00250 | -.00370 | .49010 | .13800 | 3.55137 |
| .596 | 2.040 | 14.33000 | .50780 | .01263 | .11360 | -.03630 | .00390 | -.00600 | .48830 | .13792 | 3.54479 |
| .597 | 4.070 | 14.45000 | .50870 | .01120 | .10830 | -.07640 | .00740 | -.01150 | .48980 | .13778 | 3.55484 |
| .596 | 6.110 | 14.52000 | .51320 | .01042 | .10410 | -.10550 | .01000 | -.01740 | .49420 | .13876 | 3.56166 |
| | GRADIENT | -.00681 | -.00011 | .00025 | -.00004 | -.01719 | .00165 | -.00261 | -.00015 | .00016 | -.00526 |

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK064) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK064) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 AIRLON = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 152/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|---------|---------|---------|---------|---------|--------|--------|---------|
| .797 | -6.160 | 14.72000 | .58460 | .05384 | .08820 | .11360 | -.00760 | .01510 | .55170 | .20062 | 2.75001 |
| .797 | -4.100 | 14.66000 | .57480 | .05667 | .09040 | .07470 | -.00520 | .01050 | .54170 | .20030 | 2.70448 |
| .797 | -2.060 | 14.57000 | .56330 | .05774 | .09610 | .03580 | -.00270 | .00560 | .53070 | .19759 | 2.68589 |
| .796 | -1.020 | 14.56000 | .56360 | .05806 | .09620 | .01640 | -.00190 | .00330 | .53090 | .19788 | 2.68293 |
| .797 | -.490 | 14.54000 | .56390 | .05791 | .09770 | .00650 | -.00130 | .00220 | .53130 | .19763 | 2.68842 |
| .797 | .000 | 14.50000 | .56110 | .05809 | .09700 | .00000 | -.00030 | .00120 | .52860 | .19673 | 2.68696 |
| .796 | .500 | 14.57000 | .56750 | .05789 | .09900 | -.01010 | .00000 | .00110 | .53470 | .19879 | 2.68977 |
| .796 | 1.030 | 14.58000 | .57090 | .05813 | .09700 | -.02070 | .00020 | -.00340 | .53780 | .19997 | 2.68938 |
| .796 | 2.070 | 14.58000 | .56490 | .05809 | .09360 | -.04120 | .00200 | -.00930 | .53210 | .19842 | 2.68165 |
| .796 | 4.100 | 14.67000 | .57790 | .05561 | .08840 | -.07740 | .00530 | -.00930 | .54500 | .20015 | 2.72294 |
| .796 | 6.170 | 14.77000 | .58100 | .05291 | .08920 | -.11670 | .00760 | -.01370 | .54830 | .19928 | 2.75138 |
| | GRADIENT | .00216 | .00056 | -.00008 | -.00028 | -.01853 | .00124 | -.00235 | .00056 | .00009 | .00165 |

RUN NO. 78/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .896 | -6.200 | 16.19000 | .69030 | .08337 | .06960 | .11600 | -.00170 | .01270 | .63960 | .27254 | 2.34685 |
| .896 | -4.130 | 16.11000 | .68910 | .08657 | .07060 | .07650 | -.00140 | .00900 | .63790 | .27438 | 2.32485 |
| .896 | -2.070 | 16.11000 | .68240 | .08815 | .07140 | .03560 | -.00030 | .00420 | .63110 | .27404 | 2.30032 |
| .897 | -1.020 | 16.07000 | .67840 | .08915 | .07070 | .01570 | .00000 | .00220 | .62720 | .27346 | 2.29361 |
| .897 | -.500 | 16.08000 | .68540 | .08883 | .07220 | .00830 | .00000 | .00120 | .63400 | .27520 | 2.30381 |
| .896 | .000 | 15.99000 | .68180 | .08966 | .07140 | -.00020 | -.00030 | -.00010 | .63100 | .27304 | 2.31098 |
| .896 | .510 | 16.05000 | .68460 | .08935 | .07100 | -.01040 | -.00050 | .00160 | .63350 | .27437 | 2.30889 |
| .895 | 1.020 | 16.09000 | .68450 | .08981 | .07050 | -.01130 | -.00090 | -.00110 | .63300 | .27504 | 2.30150 |
| .898 | 2.080 | 16.11000 | .69010 | .08998 | .06800 | -.03960 | .00010 | -.00540 | .63830 | .27698 | 2.30453 |
| .896 | 4.140 | 16.25000 | .69510 | .08751 | .06690 | -.08240 | .00190 | -.00980 | .64280 | .27852 | 2.30789 |
| .896 | 6.210 | 16.27000 | .69610 | .08455 | .06620 | -.12190 | .00140 | -.01360 | .64450 | .27619 | 2.33357 |
| | GRADIENT | .01288 | .00103 | .00011 | -.00051 | -.01973 | .00029 | -.00226 | .00090 | .00054 | -.00124 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (RUK064) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 ALLRON =
 GRIT =
 RUDDER =

4.500 ELEVON = -10.000
 .000 ALPHA = 15.000
 1.000 SPDBRK = 25.000
 .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 168/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .947 | -6.160 | 15.03000 | .71010 | .10264 | .04120 | .11450 | -.01400 | .01860 | .65920 | .28328 | 2.32707 |
| .946 | -4.090 | 14.91000 | .70580 | .10099 | .04080 | .07550 | -.01090 | .01220 | .65600 | .27919 | 2.34963 |
| .947 | -2.040 | 14.90000 | .70480 | .10206 | .03950 | .03410 | -.00780 | .00580 | .65480 | .27986 | 2.33978 |
| .946 | -1.010 | 14.89000 | .70310 | .10220 | .04090 | .01830 | -.00630 | .00410 | .65320 | .27944 | 2.33753 |
| .947 | -.470 | 14.88000 | .70770 | .10250 | .04000 | .00350 | -.00540 | .00220 | .65760 | .28080 | 2.34191 |
| .946 | .020 | 14.87000 | .70380 | .10267 | .03930 | -.00490 | -.00470 | .00090 | .65390 | .27985 | 2.33665 |
| .947 | .530 | 14.87000 | .70510 | .10278 | .03720 | -.01600 | -.00410 | -.00020 | .65510 | .28029 | 2.33726 |
| .947 | 1.060 | 14.88000 | .71010 | .10266 | .03820 | -.02430 | -.00350 | -.00160 | .65990 | .28157 | 2.34366 |
| .946 | 2.050 | 14.90000 | .70820 | .10181 | .03560 | -.03590 | .00530 | -.00700 | .65820 | .28049 | 2.34662 |
| .947 | 4.110 | 15.02000 | .72210 | .10272 | .03200 | -.07880 | .00960 | -.01420 | .67080 | .28635 | 2.34261 |
| .947 | 6.170 | 15.09000 | .71630 | .10262 | .03590 | -.11840 | .01280 | -.01910 | .66480 | .28556 | 2.32806 |
| | GRADIENT | .00972 | .00178 | .00016 | -.00109 | -.01859 | .00256 | -.00317 | .00164 | .00073 | -.00025 |

RUN NO. 245/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|--------|--------|---------|---------|---------|---------|--------|---------|
| 1.047 | -6.190 | 14.77000 | .73450 | .15016 | .02110 | .11480 | -.01090 | .01660 | .67190 | .33245 | 2.02105 |
| 1.047 | -4.120 | 14.74000 | .73500 | .15028 | .01680 | .07630 | -.00710 | .01070 | .67260 | .33234 | 2.02381 |
| 1.047 | -2.060 | 14.66000 | .73040 | .15058 | .01470 | .03780 | -.00410 | .00510 | .66840 | .33053 | 2.02221 |
| 1.047 | -1.030 | 14.69000 | .73100 | .15047 | .01330 | .01960 | -.00070 | .00230 | .66900 | .33081 | 2.02232 |
| 1.046 | -.500 | 14.66000 | .73460 | .15032 | .01460 | .00600 | -.00050 | .00070 | .67260 | .33134 | 2.02993 |
| 1.047 | .000 | 14.65000 | .73380 | .15041 | .01450 | -.00240 | .00030 | -.00060 | .67090 | .33086 | 2.02778 |
| 1.047 | .510 | 14.69000 | .73220 | .15086 | .01490 | -.01330 | .00140 | -.00210 | .67000 | .33161 | 2.02047 |
| 1.047 | 1.040 | 14.68000 | .73330 | .15109 | .01410 | -.02380 | .00220 | -.00400 | .67110 | .33199 | 2.02144 |
| 1.047 | 2.070 | 14.66000 | .73180 | .15185 | .01500 | -.04240 | .00410 | -.00690 | .66940 | .33211 | 2.01558 |
| 1.047 | 4.130 | 14.72000 | .72840 | .15161 | .01740 | -.08180 | .00780 | -.01220 | .66590 | .33172 | 2.00743 |
| 1.047 | 6.200 | 14.78000 | .73320 | .15126 | .02270 | -.11960 | .01080 | -.01760 | .67030 | .33330 | 2.01110 |
| | GRADIENT | -.00149 | -.00051 | .00020 | .00009 | -.01930 | .00182 | -.00281 | -.00055 | .00005 | -.00192 |

(RUJ065) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 231/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| 1.198 | -6.170 | 14.38000 | .70210 | .14164 | -.01520 | .09940 | -.00300 | .01060 | .64480 | .31157 | 2.06952 |
| 1.198 | -4.120 | 14.30000 | .70900 | .14096 | -.01570 | .07000 | -.00250 | .00560 | .65220 | .31171 | 2.09230 |
| 1.198 | -2.060 | 14.25000 | .70480 | .14189 | -.01280 | .03240 | -.00180 | .00300 | .64820 | .31101 | 2.08416 |
| 1.197 | -1.020 | 14.27000 | .70140 | .14261 | -.01310 | .01430 | -.00030 | .00150 | .64460 | .31110 | 2.07201 |
| 1.198 | -.490 | 14.24000 | .70120 | .14264 | -.01310 | .00460 | -.00030 | .00050 | .64460 | .31074 | 2.07439 |
| 1.197 | .000 | 14.26000 | .70150 | .14303 | -.01410 | -.00430 | .00020 | -.00050 | .64470 | .31142 | 2.07021 |
| 1.197 | .510 | 14.32000 | .70900 | .14322 | -.01440 | -.01320 | .00020 | -.00190 | .65150 | .31413 | 2.07397 |
| 1.197 | 1.040 | 14.27000 | .70310 | .14332 | -.01300 | -.02260 | .00050 | -.00280 | .64600 | .31221 | 2.06915 |
| 1.198 | 2.080 | 14.25000 | .70440 | .14370 | -.01430 | -.04540 | .00140 | -.00420 | .64730 | .31267 | 2.07024 |
| 1.199 | 4.120 | 14.32000 | .70680 | .14248 | -.01460 | -.07360 | .00290 | -.00770 | .64950 | .31287 | 2.07594 |
| 1.197 | 6.190 | 14.42000 | .70050 | .14323 | -.01240 | -.10660 | .00220 | -.01290 | .64270 | .31316 | 2.06229 |
| | GRADIENT | .00270 | -.00009 | .00024 | .00000 | -.01771 | .00066 | -.00167 | -.00018 | .00024 | -.00220 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUJ066) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 143/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|---------|--------|---------|---------|---------|--------|---------|---------|
| .596 | -6.110 | 19.19000 | .79490 | .00946 | .08780 | .10890 | -.01080 | .01690 | .74760 | .27022 | 2.76664 |
| .597 | -4.070 | 19.10000 | .78790 | .01383 | .08960 | .07230 | -.00770 | .01050 | .74000 | .27088 | 2.73180 |
| .597 | -2.040 | 19.06000 | .79000 | .01594 | .09290 | .03520 | -.00380 | .00510 | .74150 | .27305 | 2.71565 |
| .596 | -1.010 | 19.01000 | .78720 | .01646 | .09400 | .01860 | -.00240 | .00250 | .73880 | .27198 | 2.71638 |
| .597 | -.500 | 18.99000 | .77510 | .01709 | .09310 | .01170 | -.00130 | .00140 | .72730 | .26838 | 2.70997 |
| .596 | .000 | 18.99000 | .77170 | .01793 | .09380 | .00180 | -.00040 | .00030 | .72380 | .26807 | 2.70006 |
| .597 | .500 | 18.98000 | .77740 | .01605 | .09390 | -.00870 | .00020 | -.00070 | .72990 | .26802 | 2.72333 |
| .597 | 1.020 | 19.00000 | .78100 | .01522 | .09470 | -.01840 | .00110 | -.00210 | .73350 | .26866 | 2.73022 |
| .596 | 2.040 | 18.99000 | .77980 | .01488 | .09360 | -.03400 | .00310 | -.00400 | .73250 | .26782 | 2.73505 |
| .597 | 4.070 | 19.15000 | .79570 | .01133 | .09110 | -.07070 | .00690 | -.01050 | .74890 | .27205 | 2.75276 |
| .596 | 6.110 | 19.20000 | .80170 | .01038 | .08850 | -.10490 | .01000 | -.01460 | .75370 | .27346 | 2.75621 |
| | GRADIENT | .00103 | .00022 | -.00032 | .00020 | -.01752 | .00177 | -.00249 | .00031 | -.00021 | .00331 |

DATE 01 MAR 77

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK066) (24 FEB 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 153/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|---------|---------|---------|---------|---------|--------|--------|---------|
| .796 | -6.190 | 19.47000 | .81510 | .05409 | .09560 | .10960 | .00110 | .01130 | .75050 | .32268 | 2.32583 |
| .796 | -4.120 | 19.37000 | .79950 | .05977 | .09780 | .07520 | .00000 | .00880 | .73440 | .32155 | 2.28390 |
| .796 | -2.070 | 19.33000 | .79130 | .06189 | .10120 | .03510 | .00050 | .00640 | .72620 | .32033 | 2.26705 |
| .796 | -1.020 | 19.29000 | .78930 | .06251 | .10110 | .01660 | -.00030 | .00460 | .72430 | .31975 | 2.26524 |
| .796 | -.500 | 19.25000 | .78470 | .06254 | .10000 | .00910 | -.00060 | .00350 | .72020 | .31775 | 2.26655 |
| .797 | .000 | 19.23000 | .78760 | .06236 | .09950 | -.00150 | -.00140 | .00270 | .72310 | .31829 | 2.27186 |
| .797 | .500 | 19.31000 | .79380 | .06240 | .09900 | -.00580 | -.00110 | .00230 | .72850 | .32138 | 2.26677 |
| .797 | 1.010 | 19.35000 | .79680 | .06231 | .10050 | -.00470 | -.00170 | .00300 | .73110 | .32280 | 2.26487 |
| .796 | 2.210 | 19.60000 | .80500 | .06160 | .10190 | .00670 | -.00280 | .00530 | .73770 | .32807 | 2.24861 |
| .796 | 4.130 | 19.48000 | .81400 | .05728 | .09510 | -.07650 | -.00130 | -.00640 | .74830 | .32545 | 2.29926 |
| .796 | 6.190 | 19.50000 | .81000 | .05347 | .09280 | -.10940 | -.00140 | -.01100 | .74570 | .32079 | 2.32460 |
| | GRADIENT | .02488 | .00222 | -.00024 | -.00023 | -.01559 | -.00031 | -.00146 | .00204 | .00083 | .00048 |

RUN NO. 79/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|---------|--------|---------|---------|---------|--------|--------|---------|
| .896 | -6.230 | 21.55000 | .90440 | .08433 | .09980 | .09380 | .01740 | .01800 | .81020 | .41063 | 1.97305 |
| .896 | -4.140 | 21.51000 | .91330 | .08806 | .09620 | .05880 | .01130 | .01130 | .81740 | .41680 | 1.96113 |
| .897 | -2.070 | 21.43000 | .91350 | .09118 | .09320 | .02520 | .00570 | .00610 | .81700 | .41864 | 1.96157 |
| .897 | -1.030 | 21.43000 | .91600 | .09119 | .09440 | .01170 | .00290 | .00340 | .81930 | .41956 | 1.95276 |
| .897 | -.500 | 21.43000 | .91580 | .09141 | .09430 | .00470 | .00070 | .00170 | .81910 | .41969 | 1.95167 |
| .896 | .010 | 21.45000 | .91900 | .08991 | .10460 | -.00060 | -.00410 | .00000 | .82240 | .41975 | 1.95926 |
| .896 | .520 | 21.44000 | .91810 | .08995 | .10320 | -.00590 | -.00660 | -.00150 | .82170 | .41932 | 1.95962 |
| .896 | 1.040 | 21.42000 | .91150 | .09059 | .09400 | -.00410 | -.00420 | -.00190 | .81560 | .41725 | 1.95470 |
| .897 | 2.090 | 21.47000 | .91920 | .08956 | .09730 | -.02900 | -.00770 | -.00430 | .82260 | .41979 | 1.95957 |
| .896 | 4.160 | 21.59000 | .91780 | .08714 | .09790 | -.05260 | -.01290 | -.01020 | .82130 | .41874 | 1.96135 |
| .896 | 6.200 | 21.62000 | .92870 | .08370 | .10320 | -.09250 | -.00900 | -.01750 | .83250 | .42004 | 1.98197 |
| | GRADIENT | .00897 | .00059 | -.00019 | .00043 | -.01418 | -.00304 | -.00258 | .00055 | .00017 | .00052 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK066) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = 20.000
 CRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 169/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|--------|---------|---------|---------|---------|--------|---------|
| .947 | -6.180 | 19.80000 | .95650 | .09927 | .03480 | .09520 | .00010 | .01950 | .86640 | .41740 | 2.07569 |
| .947 | -4.110 | 19.76000 | .95790 | .10043 | .03650 | .05450 | .00350 | .01210 | .86740 | .4183F | 2.07331 |
| .946 | -2.060 | 19.76000 | .95440 | .09952 | .03590 | .01820 | .00560 | .00750 | .86450 | .41632 | 2.07651 |
| .946 | -1.020 | 19.74000 | .95270 | .09925 | .03590 | .00900 | .00270 | .00420 | .86310 | .41519 | 2.07879 |
| .946 | -.480 | 19.68000 | .95410 | .09939 | .03420 | -.00480 | .00130 | .00000 | .86490 | .41489 | 2.08463 |
| .948 | .000 | 19.72000 | .95590 | .09993 | .03410 | -.00350 | .00210 | .00090 | .86610 | .41661 | 2.07891 |
| .947 | .510 | 19.77000 | .95750 | .09999 | .03570 | -.01050 | .00030 | -.00030 | .86720 | .41797 | 2.07481 |
| .947 | 1.030 | 19.71000 | .94960 | .10046 | .03480 | -.01730 | -.00070 | -.00220 | .86000 | .41484 | 2.07311 |
| .947 | 2.070 | 19.78000 | .95710 | .10030 | .03510 | -.03100 | -.00150 | -.00570 | .86670 | .41827 | 2.07209 |
| .947 | 4.120 | 19.86000 | .95720 | .09977 | .03960 | -.05930 | -.00350 | -.01570 | .86640 | .41902 | 2.06769 |
| .947 | 6.190 | 19.97000 | .96110 | .09789 | .04170 | -.09390 | -.00610 | -.02310 | .86980 | .42025 | 2.06974 |
| | GRADIENT | .01036 | .00003 | .00001 | .00015 | -.01333 | -.00106 | -.00334 | -.00004 | .00017 | -.00095 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK067) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.000 ELEVON = -10.000
 AILRON = .000 ALPHA = 20.000
 CRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 227/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|--------|---------|---------|---------|---------|---------|---------|---------|
| 1.197 | -6.190 | 19.03000 | .94780 | .13173 | -.03120 | .08770 | .00640 | .00880 | .85300 | .43357 | 1.96737 |
| 1.197 | -4.120 | 18.97000 | .95230 | .13336 | -.03330 | .05970 | .00370 | .00550 | .85720 | .43568 | 1.96748 |
| 1.197 | -2.060 | 18.90000 | .94680 | .13506 | -.03370 | .02810 | .00090 | .00240 | .85190 | .43446 | 1.96081 |
| 1.197 | -1.020 | 18.90000 | .94980 | .13497 | -.03230 | .01350 | .00050 | .00100 | .85480 | .43535 | 1.96348 |
| 1.196 | -.500 | 18.87000 | .94600 | .13500 | -.03240 | .00540 | .00020 | .00020 | .85150 | .43370 | 1.96333 |
| 1.196 | .000 | 18.86300 | .94420 | .13535 | -.03350 | -.00270 | -.00030 | -.00060 | .84980 | .43330 | 1.96122 |
| 1.197 | .510 | 18.87000 | .94750 | .13534 | -.03320 | -.01120 | -.00100 | -.00160 | .85280 | .43451 | 1.96268 |
| 1.198 | 1.040 | 18.89000 | .94560 | .13545 | -.03310 | -.01870 | -.00120 | -.00220 | .85000 | .43430 | 1.95904 |
| 1.197 | 2.080 | 18.97000 | .94670 | .13516 | -.03210 | -.03560 | -.00190 | -.00380 | .85210 | .43408 | 1.96300 |
| 1.196 | 4.130 | 18.97000 | .94990 | .13397 | -.02900 | -.06310 | -.00200 | -.00700 | .85470 | .43548 | 1.96266 |
| 1.198 | 6.200 | 19.05000 | .94020 | .13125 | -.02910 | -.09450 | -.00720 | -.01080 | .84580 | .43094 | 1.96270 |
| | GRADIENT | -.00160 | -.00030 | .00008 | .00044 | -.01503 | -.00099 | -.00152 | -.00030 | -.00005 | -.00045 |

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 AILRON = .000 ALPHA = 20.000
 CRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 AILRON = .000 ALPHA = 20.000
 CRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AIRLON =
 GRIT =
 RUDDER =

4.500 ELEVON = .000
 .000 ALPHA = .000
 1.000 SPOBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 134/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|--------|--------|---------|---------|---------|---------|--------|----------|
| .597 | -6.120 | -.09000 | -.05550 | .06059 | .03020 | .11790 | -.01140 | .00470 | -.05540 | .06068 | -.91303 |
| .597 | -4.070 | -.09000 | -.06120 | .06230 | .03280 | .07540 | -.00820 | .00280 | -.06110 | .06240 | -.97923 |
| .596 | -2.040 | -.05000 | -.06270 | .06405 | .03680 | .03610 | -.00360 | .00070 | -.06260 | .06410 | -.97653 |
| .597 | -1.020 | -.11000 | -.05580 | .06352 | .03980 | .01950 | -.00130 | -.00010 | -.05570 | .06363 | -.87541 |
| .596 | -.500 | -.10000 | -.06290 | .06376 | .03960 | .01160 | -.00020 | -.00040 | -.06280 | .06387 | -.98325 |
| .597 | -.000 | -.14000 | -.06590 | .06412 | .03860 | .00120 | -.00030 | -.00080 | -.06670 | .06428 | -1.03759 |
| .597 | .490 | -.10000 | -.06160 | .06434 | .03820 | -.00700 | .00100 | -.00140 | -.06150 | .06445 | -.95427 |
| .597 | 1.010 | -.14000 | -.06520 | .06435 | .03700 | -.01690 | .00200 | -.00190 | -.06500 | .06451 | -1.00761 |
| .597 | 2.040 | -.15000 | -.06570 | .06447 | .03780 | -.03570 | .00370 | -.00240 | -.06550 | .06454 | -1.01328 |
| .597 | 4.070 | -.03000 | -.05520 | .06337 | .03580 | -.07490 | .00780 | -.00440 | -.05520 | .06340 | -.87068 |
| .596 | 6.110 | -.03000 | -.06600 | .06228 | .02980 | -.11780 | .01240 | -.00670 | -.06600 | .06231 | -1.05914 |
| | GRADIENT | -.00023 | .00021 | .00014 | .00024 | -.01828 | .00191 | -.00086 | .00021 | .00014 | .00561 |

RUN NO. 65/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .896 | -6.170 | -.05000 | -.05090 | .08309 | .03270 | .14060 | -.02130 | .00500 | -.05100 | .08305 | -.61412 |
| .897 | -4.110 | -.07000 | -.04310 | .08077 | .03400 | .09370 | -.01440 | .00350 | -.04320 | .08072 | -.53520 |
| .896 | -2.060 | -.05000 | -.04830 | .07951 | .04010 | .04490 | -.00570 | .00120 | -.04840 | .07947 | -.60905 |
| .896 | -1.030 | -.04000 | -.04690 | .08005 | .04180 | .02310 | -.00260 | .00030 | -.04690 | .08002 | -.58612 |
| .896 | -.500 | -.03000 | -.05240 | .08036 | .04180 | .00900 | -.00130 | .00010 | -.05040 | .08033 | -.62738 |
| .897 | -.000 | -.03000 | -.04700 | .08056 | .04190 | -.00130 | .00050 | -.00010 | -.04710 | .08054 | -.58484 |
| .897 | .500 | -.01000 | -.05090 | .08076 | .04170 | -.01290 | .00200 | -.00350 | -.05010 | .08075 | -.62042 |
| .896 | 1.030 | -.01000 | -.05270 | .08080 | .04160 | -.02480 | .00350 | -.00060 | -.05270 | .08079 | -.65230 |
| .896 | 2.060 | -.03000 | -.04840 | .08097 | .03990 | -.04730 | .00710 | -.00170 | -.04850 | .08094 | -.59917 |
| .897 | 4.110 | -.00000 | -.05350 | .08269 | .03370 | -.03860 | .01480 | -.00300 | -.05360 | .08269 | -.64820 |
| .897 | 6.180 | -.00000 | -.05070 | .08342 | .03480 | -.14470 | .02200 | -.00590 | -.06070 | .08342 | -.72764 |
| | GRADIENT | -.00824 | -.00109 | .00026 | -.00004 | -.02320 | .00340 | -.00093 | -.00109 | .00027 | -.01133 |

PARAMETRIC DATA

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK068) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AIRLON = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 156/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .945 | -6.170 | .04000 | -.06240 | .10598 | .05470 | .13690 | -.02120 | .01310 | -.06250 | .10594 | -.58998 |
| .946 | -4.110 | .02000 | -.05880 | .10330 | .05340 | .08530 | -.01180 | .00900 | -.05880 | .10328 | -.56933 |
| .946 | -2.050 | .00000 | -.06600 | .10244 | .05620 | .03760 | -.00550 | .00410 | -.06600 | .10244 | -.64428 |
| .946 | -1.020 | .00000 | -.06720 | .10273 | .05750 | .01800 | -.00230 | .00180 | -.06720 | .10273 | -.65414 |
| .946 | -.510 | .00000 | -.08270 | .10290 | .05830 | .01040 | -.00040 | .00060 | -.06270 | .10290 | -.60933 |
| .946 | .000 | .00000 | -.06560 | .10318 | .05860 | -.00130 | .00030 | -.00040 | -.06560 | .10318 | -.63578 |
| .946 | .510 | .06000 | -.06210 | .10328 | .05770 | -.01250 | .00140 | -.00160 | -.06230 | .10321 | -.60359 |
| .946 | 1.030 | .10000 | -.05550 | .10346 | .05660 | -.02490 | .00240 | -.00280 | -.05570 | .10336 | -.53888 |
| .945 | 2.060 | .00000 | -.06350 | .10359 | .05640 | -.04140 | .00580 | -.00520 | -.06360 | .10359 | -.61396 |
| .945 | 4.150 | .34000 | -.00970 | .10489 | .04430 | -.08080 | .00120 | -.00920 | -.00900 | .10495 | -.08576 |
| .945 | 6.180 | .04000 | -.07190 | .10716 | .05720 | -.13910 | .02110 | -.01260 | -.07200 | .10711 | -.67221 |
| | GRADIENT | .03229 | .00667 | .00022 | -.00086 | -.02010 | .00274 | -.00222 | .00559 | .00022 | .06416 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.000 ELEVON = .000
 AIRLON = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK069) (24 FEB 77)

RUN NO. 222/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| 1.197 | -6.170 | -.18000 | -.04490 | .15058 | .03800 | .11490 | -.00860 | -.01220 | -.04440 | .15072 | -.29459 |
| 1.197 | -4.110 | -.18000 | -.04920 | .14997 | .04460 | .07630 | -.00540 | .00610 | -.04870 | .15012 | -.32440 |
| 1.199 | -2.050 | -.14000 | -.04590 | .14861 | .04570 | .03370 | -.00240 | .00230 | -.04550 | .14862 | -.30615 |
| 1.197 | -1.020 | -.14000 | -.04760 | .14703 | .04680 | .01630 | -.00090 | .00030 | -.04720 | .14715 | -.32077 |
| 1.198 | -.500 | -.15000 | -.04830 | .14717 | .04690 | .00870 | .00030 | -.00040 | -.04800 | .14730 | -.32587 |
| 1.198 | .000 | -.16000 | -.04910 | .14694 | .04710 | -.00290 | .00070 | -.00120 | -.04870 | .14708 | -.33112 |
| 1.197 | .500 | -.15000 | -.04590 | .14695 | .04780 | .00850 | .00190 | -.00210 | -.04550 | .14707 | -.30938 |
| 1.198 | 1.030 | -.16000 | -.05000 | .14742 | .04700 | -.02340 | .00120 | -.00280 | -.04960 | .14756 | -.33614 |
| 1.196 | 2.050 | -.16000 | -.04900 | .14797 | .04750 | -.03600 | .00390 | -.00470 | -.04850 | .14812 | -.32743 |
| 1.197 | 4.100 | -.17000 | -.04980 | .15006 | .04620 | -.07670 | .00760 | -.00860 | -.04930 | .15021 | -.32821 |
| 1.198 | 6.170 | -.19000 | -.05760 | .15130 | .04650 | -.11930 | .01130 | -.01250 | -.05710 | .15149 | -.37692 |
| | GRADIENT | -.00137 | -.00023 | -.00001 | .00025 | -.01835 | .00155 | -.00176 | -.00022 | -.00001 | -.00149 |

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK070) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 8.000 ELEVON = .000
 AILRON = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 94/ 0 RN/L = 8.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|--------|---------|--------|--------|---------|---------|---------|---------|--------|---------|
| .581 | -6.210 | .11000 | -.03230 | .05369 | .02360 | .12270 | -.01210 | .00410 | -.03240 | .05963 | -.54337 |
| .598 | -4.150 | .14000 | -.03640 | .06183 | .03040 | .08420 | -.00760 | .00200 | -.03650 | .06174 | -.59118 |
| .598 | -2.090 | .26000 | -.03840 | .06401 | .03300 | .04390 | -.00350 | .00020 | -.03870 | .06384 | -.60625 |
| .598 | -1.040 | .17000 | -.04840 | .06449 | .03420 | .02180 | -.00190 | -.00090 | -.04860 | .06435 | -.75529 |
| .599 | -.510 | .18000 | -.04330 | .06403 | .03650 | .01450 | -.00120 | -.00100 | -.04350 | .06389 | -.68082 |
| .599 | .000 | .13000 | -.04960 | .06461 | .03450 | .00240 | .00000 | -.00190 | -.04980 | .06450 | -.77213 |
| .599 | .500 | .14000 | -.05540 | .06473 | .03500 | -.00650 | .00010 | -.00190 | -.05550 | .06459 | -.85921 |
| .599 | 1.020 | .11000 | -.04960 | .06451 | .03500 | -.01570 | .00180 | -.00240 | -.04970 | .06441 | -.77156 |
| .598 | 2.070 | .12000 | -.05180 | .06481 | .03290 | -.03710 | .00330 | -.00330 | -.05200 | .06470 | -.80369 |
| .598 | 4.130 | .25000 | -.03850 | .06367 | .03140 | -.07600 | .00720 | -.00480 | -.03880 | .06350 | -.61101 |
| .598 | 6.210 | .24000 | -.03820 | .06189 | .02670 | -.11930 | .01250 | -.00800 | -.03850 | .06173 | -.62369 |
| GRADIENT | | .00179 | -.00097 | .00021 | .00009 | -.01933 | .00175 | -.00082 | -.00098 | .00021 | -.01318 |

RUN NO. 57/ 0 RN/L = 7.62 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .900 | -2.100 | .12000 | -.02710 | .08001 | .03470 | .04380 | -.00620 | .00000 | -.02720 | .07995 | -.34020 |
| .900 | -1.040 | .10000 | -.03390 | .08064 | .03520 | .02040 | -.00290 | -.00090 | -.03410 | .08058 | -.42318 |
| .899 | -.510 | .11000 | -.03470 | .08085 | .03490 | .01000 | -.00090 | -.00120 | -.03480 | .08078 | -.43078 |
| .900 | .000 | .03000 | -.03890 | .08103 | .03590 | -.00210 | .00050 | -.00150 | -.03890 | .08101 | -.48019 |
| .900 | .520 | .08000 | -.04010 | .08124 | .03510 | -.01520 | .00230 | -.00170 | -.04020 | .08118 | -.49517 |
| .900 | 1.060 | .03000 | -.03730 | .08116 | .03630 | -.02810 | .00410 | -.00200 | -.03730 | .08114 | -.45970 |
| .900 | 2.110 | -.01000 | -.04530 | .08193 | .03380 | -.05190 | .00750 | -.00280 | -.04520 | .08194 | -.55164 |
| GRADIENT | | -.03125 | -.00385 | .00041 | -.00005 | -.02288 | .00326 | -.00063 | -.00579 | .00043 | -.04452 |

PARAMETRIC DATA

(RUK071) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 135/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .596 | -6.120 | 4.89000 | .18730 | .04943 | .02890 | .11860 | -.01230 | .00900 | .18240 | .06522 | 2.79686 |
| .596 | -4.070 | 4.83000 | .17920 | .05081 | .03200 | .07750 | -.00750 | .00530 | .17430 | .06572 | 2.65224 |
| .596 | -2.040 | 4.81000 | .17490 | .05208 | .03410 | .03790 | -.00360 | .00190 | .16990 | .06656 | 2.55250 |
| .598 | -1.010 | 4.78000 | .17310 | .05224 | .03570 | .01760 | -.00220 | .00050 | .16810 | .06648 | 2.52848 |
| .597 | -.490 | 4.80000 | .16820 | .05250 | .03630 | .00810 | -.00120 | .00000 | .16320 | .06639 | 2.45818 |
| .597 | .000 | 4.78000 | .17260 | .05172 | .03820 | .00210 | .00000 | -.00050 | .16760 | .06592 | 2.54236 |
| .597 | .490 | 4.76000 | .16740 | .05231 | .03570 | -.00710 | .00110 | -.00170 | .16250 | .06602 | 2.46135 |
| .596 | 1.010 | 4.75000 | .17830 | .05205 | .03840 | -.01650 | .00150 | -.00250 | .17340 | .06664 | 2.60220 |
| .597 | 2.040 | 4.78000 | .17800 | .05212 | .03390 | -.03650 | .00370 | -.00440 | .17310 | .06677 | 2.59242 |
| .596 | 4.070 | 4.85000 | .18430 | .05182 | .03120 | -.07550 | .00800 | -.00770 | .17930 | .06722 | 2.66750 |
| .597 | 6.110 | 4.92000 | .18650 | .05098 | .02840 | -.11320 | .01190 | -.01150 | .18140 | .06679 | 2.71609 |
| | GRADIENT | -.00068 | .00073 | .00009 | -.00003 | -.01857 | .00188 | -.00158 | .00073 | .00015 | .00499 |

RUN NO. 66/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|--------|--------|---------|---------|---------|--------|--------|---------|
| .897 | -6.180 | 5.59000 | .25660 | .07850 | .01820 | .13760 | -.02020 | .00900 | .24770 | .10312 | 2.40201 |
| .897 | -4.110 | 5.46000 | .25210 | .07650 | .02140 | .09150 | -.01350 | .00610 | .24350 | .10014 | 2.43258 |
| .896 | -2.060 | 5.44000 | .24330 | .07704 | .02590 | .04270 | -.00610 | .00250 | .23490 | .09976 | 2.35468 |
| .897 | -1.020 | 5.43000 | .24390 | .07779 | .02830 | .02030 | -.00270 | .00110 | .23540 | .10052 | 2.34180 |
| .897 | -.500 | 5.42000 | .24530 | .07789 | .02890 | .00820 | -.00110 | .00060 | .23680 | .10071 | 2.35126 |
| .896 | .000 | 5.43000 | .24780 | .07736 | .02990 | -.00180 | .00040 | .00010 | .23940 | .10046 | 2.38299 |
| .896 | .510 | 5.45000 | .24350 | .07774 | .02830 | -.01320 | .00160 | -.00010 | .23500 | .10052 | 2.33795 |
| .897 | 1.030 | 5.42000 | .24490 | .07768 | .02760 | -.02500 | .00340 | -.00070 | .23640 | .10046 | 2.35306 |
| .896 | 2.070 | 5.46000 | .25100 | .07693 | .02680 | -.04890 | .00660 | -.00220 | .24260 | .10046 | 2.41480 |
| .896 | 4.110 | 5.45000 | .25020 | .07798 | .02190 | -.09430 | .01440 | -.00610 | .24170 | .10139 | 2.38385 |
| .895 | 6.180 | 5.55000 | .25460 | .07869 | .02020 | -.14050 | .02130 | -.00950 | .24580 | .10294 | 2.38769 |
| | GRADIENT | .00011 | .00018 | .00013 | .00007 | -.02248 | .00331 | -.00138 | .00018 | .00014 | -.00160 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = 5.000
 CRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 157/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|--------|--------|---------|---------|---------|--------|--------|---------|
| .945 | -6.170 | 5.16000 | .25340 | .10104 | .01940 | .13530 | -.02190 | .01250 | .24330 | .12342 | 1.97131 |
| .946 | -4.100 | 4.98000 | .25210 | .09903 | .01260 | .08380 | -.01410 | .00850 | .24260 | .12054 | 2.01260 |
| .946 | -2.060 | 4.98000 | .25140 | .09812 | .01300 | .09950 | -.00610 | .00380 | .24190 | .11962 | 2.02232 |
| .945 | -1.020 | 4.97000 | .25480 | .09822 | .01540 | .01910 | -.00260 | .00150 | .24540 | .11993 | 2.04628 |
| .946 | -.500 | 5.00000 | .25220 | .09901 | .01540 | .00970 | -.00110 | .00060 | .24260 | .12061 | 2.01138 |
| .945 | .000 | 4.96000 | .25250 | .09874 | .01620 | -.00030 | .00000 | -.00040 | .24300 | .12020 | 2.02161 |
| .946 | .500 | 5.00000 | .25160 | .09904 | .01540 | -.01050 | .00170 | -.00150 | .24200 | .12059 | 2.00677 |
| .945 | 1.020 | 5.01000 | .25290 | .09862 | .01540 | -.02080 | .00300 | -.00230 | .24330 | .12033 | 2.02196 |
| .944 | 2.070 | 5.01000 | .25320 | .09854 | .01370 | -.04450 | .00600 | -.00450 | .24370 | .12028 | 2.02618 |
| .947 | 4.110 | 5.06000 | .25360 | .10173 | .01590 | -.08860 | .01400 | -.00930 | .24360 | .12370 | 1.96927 |
| .945 | 6.180 | 5.10000 | .24180 | .10304 | .02090 | -.13770 | .02200 | -.01340 | .23160 | .12413 | 1.86584 |
| | GRADIENT | .00917 | .00017 | .00028 | .00033 | -.02080 | .00329 | -.00212 | .00012 | .00033 | -.00440 |

RUN NO. 283/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|--------|--------|---------|---------|---------|---------|--------|---------|
| .977 | -6.170 | 5.05000 | .25430 | .12240 | .01720 | .12890 | -.02000 | .01500 | .24250 | .14431 | 1.68041 |
| .976 | -4.100 | 5.02000 | .25450 | .11860 | .01390 | .08260 | -.01230 | .00960 | .24320 | .14041 | 1.73201 |
| .977 | -2.060 | 5.00000 | .25420 | .11765 | .01350 | .04050 | -.00510 | .00410 | .24300 | .13936 | 1.74372 |
| .977 | -1.030 | 4.98000 | .25210 | .11766 | .01690 | .02080 | -.00180 | .00180 | .24100 | .13910 | 1.73256 |
| .977 | -.500 | 4.96000 | .25230 | .11814 | .01740 | .00820 | -.00110 | .00050 | .24110 | .13951 | 1.72817 |
| .977 | .000 | 4.96000 | .25140 | .11773 | .01640 | .00000 | -.00030 | -.00070 | .24030 | .13903 | 1.72846 |
| .977 | .500 | 4.98000 | .25490 | .11794 | .01690 | -.00930 | .00090 | -.00170 | .24370 | .13962 | 1.74543 |
| .977 | 1.030 | 4.96000 | .25210 | .11851 | .01560 | -.01950 | .00190 | -.00300 | .24090 | .13986 | 1.72240 |
| .976 | 2.060 | 5.01000 | .25640 | .11872 | .01570 | -.04010 | .00430 | -.00560 | .24500 | .14066 | 1.74182 |
| .978 | 4.110 | 5.03000 | .25210 | .12232 | .01510 | -.08360 | .01150 | -.01130 | .24040 | .14395 | 1.67000 |
| .977 | 6.160 | 5.11000 | .24930 | .12388 | .01850 | -.12800 | .02000 | -.01670 | .23730 | .14559 | 1.62989 |
| | GRADIENT | .00115 | -.00009 | .00041 | .00018 | -.02005 | .00272 | -.00250 | -.00014 | .00040 | -.00582 |

(RUK071) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 237/ 0 RN/L = 4.53 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|--------|--------|---------|---------|---------|---------|--------|---------|
| 1.048 | -6.170 | 4.88000 | .26310 | .15063 | .00140 | .11270 | -.01340 | .01460 | .24940 | .17247 | 1.44608 |
| 1.049 | -4.110 | 4.86000 | .26470 | .14967 | .00070 | .07220 | -.00740 | .00910 | .25100 | .17156 | 1.46307 |
| 1.047 | -2.060 | 4.89000 | .26500 | .14913 | .00200 | .03260 | -.00340 | .00410 | .25140 | .17118 | 1.46866 |
| 1.048 | -1.020 | 4.86000 | .26410 | .14911 | .00290 | .01610 | -.00140 | .00150 | .25050 | .17095 | 1.46535 |
| 1.046 | -.500 | 4.83000 | .26300 | .14889 | .00410 | .00620 | -.00090 | .00040 | .24960 | .17051 | 1.46388 |
| 1.048 | .000 | 4.85000 | .26630 | .14904 | .00320 | -.00160 | -.00010 | -.00080 | .25270 | .17102 | 1.47759 |
| 1.048 | .510 | 4.87000 | .26430 | .14970 | .00270 | -.01100 | .00050 | -.00180 | .25060 | .17160 | 1.46040 |
| 1.046 | 1.040 | 4.89000 | .26580 | .14956 | .00290 | -.02090 | .00050 | -.00250 | .25200 | .17167 | 1.46791 |
| 1.047 | 2.070 | 4.82000 | .25920 | .15080 | .00300 | -.03740 | .00310 | -.03540 | .24550 | .17205 | 1.42694 |
| 1.047 | 4.120 | 4.87000 | .26060 | .15133 | .00080 | -.07700 | .00720 | -.01060 | .24680 | .17291 | 1.42735 |
| 1.048 | 6.180 | 4.94000 | .26020 | .15209 | .00210 | -.11850 | .01340 | -.01660 | .24620 | .17393 | 1.41550 |
| | GRADIENT | -.00116 | -.00059 | .00025 | .00004 | -.01789 | .00169 | -.00235 | -.00061 | .00019 | -.00516 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK072) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.000 ELEVON = .000
 AILRON = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 223/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| 1.197 | -6.160 | 4.55000 | .23930 | .14447 | -.01040 | .10300 | -.00700 | .01080 | .22710 | .16300 | 1.39327 |
| 1.199 | -4.100 | 4.50000 | .23630 | .14519 | -.01100 | .06630 | -.00370 | .00650 | .22420 | .16328 | 1.37308 |
| 1.197 | -2.060 | 4.51000 | .23950 | .14413 | -.00940 | .03040 | -.00100 | .00280 | .22740 | .16252 | 1.39924 |
| 1.197 | -1.030 | 4.49000 | .23740 | .14391 | -.01000 | .01810 | .00040 | .00100 | .22540 | .16205 | 1.39090 |
| 1.198 | -.500 | 4.45000 | .23410 | .14420 | -.00900 | .00440 | .00000 | .00000 | .22220 | .16193 | 1.37221 |
| 1.197 | .000 | 4.50000 | .23680 | .14462 | -.00950 | -.00340 | .00000 | -.00100 | .22470 | .16275 | 1.38062 |
| 1.198 | .500 | 4.50000 | .23700 | .14467 | -.00840 | -.01060 | .00050 | -.00190 | .22500 | .16282 | 1.38190 |
| 1.198 | 1.030 | 4.49000 | .23570 | .14517 | -.00810 | -.01820 | .00090 | -.00270 | .22360 | .16318 | 1.37030 |
| 1.197 | 2.060 | 4.46000 | .23220 | .14614 | -.00860 | -.03590 | .00150 | -.00470 | .22010 | .16375 | 1.34409 |
| 1.197 | 4.110 | 4.50000 | .23370 | .14636 | -.00720 | -.07420 | .00370 | -.00890 | .22500 | .16453 | 1.36756 |
| 1.198 | 6.170 | 4.55000 | .23520 | .14609 | -.00790 | -.11090 | .00750 | -.01320 | .22290 | .16429 | 1.35677 |
| | GRADIENT | -.00174 | -.00025 | .00023 | .00044 | -.01692 | .00081 | -.00186 | -.00027 | .00021 | -.00341 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK073) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AIRLON =
 GRIT =
 RUDDER =

8.000 ELEVON = .000
 .000 ALPHA = 5.000
 1.000 SPCBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 164/ 0 RN/L = 7.86 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .900 | -2.100 | 5.28000 | .24090 | .07810 | .02900 | .04340 | -.00610 | .00080 | .23270 | .09994 | 2.32847 |
| .900 | -1.040 | 5.27000 | .24080 | .07857 | .03140 | .01860 | -.00290 | -.00010 | .23260 | .10036 | 2.31777 |
| .900 | -.510 | 5.27000 | .23890 | .07864 | .03170 | .00900 | -.00070 | -.00060 | .23070 | .10025 | 2.30124 |
| .900 | .000 | 5.19000 | .23890 | .07893 | .03170 | -.00380 | .00040 | -.00120 | .23080 | .10022 | 2.30300 |
| .900 | .530 | 5.20000 | .23660 | .07882 | .03140 | -.01690 | .00150 | -.00180 | .22840 | .09994 | 2.28539 |
| .900 | 1.070 | 5.17000 | .23580 | .07872 | .02990 | -.02870 | .00320 | -.00260 | .22780 | .09965 | 2.28605 |
| .899 | 2.130 | 5.17000 | .23580 | .07880 | .02680 | -.05340 | .00640 | -.00410 | .22770 | .09973 | 2.28322 |
| .900 | 4.200 | 5.26000 | .24590 | .07928 | .01980 | -.09850 | .01520 | -.00660 | .23760 | .10149 | 2.34114 |
| .899 | 6.320 | 5.26000 | .23700 | .08066 | .01600 | -.15020 | .02180 | -.00950 | .22860 | .10205 | 2.24014 |
| | GRADIENT | -.00860 | .00040 | .00015 | -.00166 | -.02263 | .00328 | -.00121 | .00039 | .00015 | .00040 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK074) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AIRLON =
 GRIT =
 RUDDER =

4.500 ELEVON = .000
 .000 ALPHA = 10.000
 1.000 SPCBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 136/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|--------|---------|---------|---------|--------|--------|---------|
| .597 | -6.110 | 9.93000 | .43950 | .02070 | .02190 | .11090 | -.01250 | .01510 | .42940 | .09618 | 4.46457 |
| .597 | -4.070 | 9.93000 | .44230 | .01911 | .02670 | .07570 | -.00710 | .00950 | .43240 | .09510 | 4.54698 |
| .597 | -2.040 | 9.90000 | .43120 | .02167 | .02950 | .03340 | -.00440 | .00380 | .42110 | .09548 | 4.41020 |
| .597 | -1.010 | 9.89000 | .43120 | .02147 | .03090 | .01720 | -.00270 | .00130 | .42110 | .09521 | 4.42273 |
| .597 | -.500 | 9.94000 | .43440 | .02089 | .03370 | .01280 | -.00110 | .00000 | .42430 | .09556 | 4.44009 |
| .597 | .000 | 9.90000 | .43370 | .02093 | .03290 | .00230 | -.00070 | -.00160 | .42370 | .09518 | 4.45138 |
| .597 | .490 | 9.91000 | .43700 | .02115 | .03360 | -.00450 | .00050 | -.00260 | .42680 | .09604 | 4.44386 |
| .597 | 1.010 | 9.90000 | .44230 | .02039 | .03360 | -.01520 | .00100 | -.00490 | .43220 | .09513 | 4.49397 |
| .597 | 2.050 | 9.88000 | .41820 | .02414 | .02850 | -.03860 | .00250 | -.00640 | .40780 | .09554 | 4.26842 |
| .596 | 4.070 | 9.97000 | .45040 | .01878 | .02760 | -.07210 | .00770 | -.01340 | .44040 | .09648 | 4.56490 |
| .596 | 6.120 | 10.01000 | .44910 | .02027 | .02540 | -.11500 | .01210 | -.01820 | .43870 | .09802 | 4.47543 |
| | GRADIENT | -.00265 | .00043 | .00006 | .00010 | -.01795 | .00179 | -.00276 | .00040 | .00016 | -.00323 |

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK074) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AIRLON = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 67/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .896 | -6.190 | 10.95000 | .51940 | .07460 | .01230 | .13130 | -.01400 | .01410 | .49570 | .17190 | 2.88360 |
| .896 | -4.110 | 10.85000 | .51130 | .07407 | .01610 | .08640 | -.01050 | .00970 | .48820 | .16908 | 2.88743 |
| .895 | -2.060 | 10.83000 | .50950 | .07402 | .01890 | .04080 | -.00460 | .00400 | .48650 | .16843 | 2.88836 |
| .895 | -1.020 | 10.82000 | .51670 | .07425 | .02040 | .01840 | -.00290 | .00190 | .49360 | .16993 | 2.90478 |
| .895 | -.500 | 10.84000 | .50990 | .07448 | .02110 | .00910 | -.00170 | .00160 | .48680 | .16905 | 2.87968 |
| .896 | .000 | 10.78000 | .50700 | .07475 | .02120 | -.00090 | -.00050 | .00070 | .48410 | .16825 | 2.87711 |
| .896 | .510 | 10.82000 | .50850 | .07483 | .02100 | -.01140 | -.00030 | .00030 | .48540 | .16896 | 2.87291 |
| .895 | 1.030 | 10.81000 | .50600 | .07491 | .02000 | -.02330 | .00140 | .00160 | .48300 | .16848 | 2.86677 |
| .896 | 2.070 | 10.80000 | .50610 | .07481 | .01890 | -.04580 | .00400 | -.00420 | .48310 | .16832 | 2.87015 |
| .896 | 4.130 | 10.85000 | .51450 | .07470 | .01550 | -.09180 | .00910 | -.01020 | .49120 | .17021 | 2.88579 |
| .897 | 6.190 | 10.90000 | .51970 | .07557 | .01360 | -.13110 | .01390 | -.01570 | .49610 | .17248 | 2.87628 |
| | GRADIENT | -.00273 | -.00012 | .00011 | -.00037 | -.02143 | .00231 | -.00229 | -.00014 | .00006 | -.00192 |

RUN NO. 158/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .945 | -6.170 | 10.15000 | .53930 | .09420 | -.00780 | .13060 | -.01990 | .01510 | .51420 | .18776 | 2.73854 |
| .946 | -4.100 | 10.04000 | .53880 | .09206 | -.01330 | .08360 | -.01270 | .00990 | .51450 | .18458 | 2.78737 |
| .946 | -2.060 | 10.04000 | .53940 | .09161 | -.01030 | .03930 | -.00500 | .00370 | .51510 | .18424 | 2.79575 |
| .945 | -1.020 | 10.02000 | .54020 | .09156 | -.00840 | .01900 | -.00260 | .00110 | .51610 | .18415 | 2.80255 |
| .946 | -.500 | 10.06000 | .53950 | .09188 | -.00890 | .00930 | -.00180 | .00060 | .51410 | .18453 | 2.78596 |
| .946 | .000 | 9.99000 | .53360 | .09205 | -.00930 | -.00110 | -.00050 | .00050 | .50950 | .18322 | 2.78079 |
| .945 | .510 | 10.05000 | .53140 | .09179 | -.00640 | -.01090 | -.00050 | .00230 | .50720 | .18311 | 2.76985 |
| .946 | 1.030 | 10.03000 | .53490 | .09235 | -.00800 | -.02100 | .00050 | -.00330 | .51060 | .18410 | 2.77351 |
| .946 | 2.070 | 10.07000 | .53930 | .09257 | -.00920 | -.04060 | .00330 | -.00560 | .51360 | .18527 | 2.77330 |
| .946 | 4.110 | 10.16000 | .54420 | .09272 | -.01040 | -.08320 | .01110 | -.01130 | .51930 | .18726 | 2.77313 |
| .946 | 6.170 | 10.16000 | .53740 | .09519 | -.00540 | -.12590 | .01900 | -.01620 | .51220 | .18849 | 2.71734 |
| | GRADIENT | .01249 | .00024 | .00012 | .00035 | -.02009 | .00255 | -.00250 | .00018 | .00028 | -.00318 |

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.50 ELEVON = .000
 AILRON = .000 ALPHA = 10.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 284 / 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .977 | -6.170 | 9.94000 | .54310 | .11794 | -.01270 | .12590 | -.01940 | .01640 | .51460 | .20992 | 2.45144 |
| .977 | -4.100 | 9.89000 | .54590 | .11454 | -.01470 | .08230 | -.01290 | .01090 | .51810 | .20660 | 2.50774 |
| .977 | -2.060 | 9.89000 | .54270 | .11548 | -.01740 | .04240 | -.00680 | .00520 | .51480 | .20698 | 2.48724 |
| .977 | -1.020 | 9.83000 | .53650 | .11537 | -.01690 | .01990 | -.00380 | .00230 | .50900 | .20527 | 2.47966 |
| .978 | -.500 | 9.83000 | .53870 | .11483 | -.01530 | .01030 | -.00210 | .00080 | .51120 | .20511 | 2.49227 |
| .977 | .500 | 9.81000 | .53680 | .11416 | -.01400 | -.00050 | -.00070 | -.00040 | .50950 | .20395 | 2.49814 |
| .977 | 1.030 | 9.83000 | .53710 | .11469 | -.01510 | -.01030 | -.00120 | -.00200 | .50960 | .20470 | 2.48946 |
| .978 | 2.060 | 9.87000 | .54210 | .11494 | -.01520 | -.02110 | .00220 | -.00360 | .51430 | .20616 | 2.49464 |
| .978 | 4.110 | 9.90000 | .54430 | .11614 | -.01570 | -.04100 | .00540 | -.00680 | .51620 | .20799 | 2.48183 |
| .978 | 6.170 | 9.96000 | .54820 | .11709 | -.01510 | -.08160 | .01150 | -.01300 | .51970 | .21014 | 2.47309 |
| .978 | GRADIENT | .00780 | .00040 | .12047 | -.01340 | -.12570 | .01800 | -.01850 | .51260 | .21224 | 2.41519 |
| | | | | .00025 | .00008 | -.02003 | .00297 | -.00291 | .00032 | .00039 | -.00311 |

RUN NO. 238 / 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| 1.045 | -6.160 | 9.78000 | .54140 | .14804 | -.02530 | .11450 | -.01500 | .01500 | .50840 | .23785 | 2.13745 |
| 1.047 | -4.110 | 9.78000 | .54050 | .14546 | -.02750 | .07460 | -.00980 | .00890 | .50800 | .23516 | 2.16025 |
| 1.047 | -2.060 | 9.76000 | .53560 | .14315 | -.02650 | .03550 | -.00440 | .00350 | .50360 | .23187 | 2.17187 |
| 1.047 | -1.020 | 9.75000 | .53800 | .14245 | -.02630 | .01580 | -.00250 | .00100 | .50600 | .23150 | 2.18572 |
| 1.047 | -.500 | 9.73000 | .53590 | .14222 | -.02540 | .00650 | -.00120 | .00000 | .50400 | .23073 | 2.18440 |
| 1.048 | .000 | 9.73000 | .53370 | .14229 | -.02620 | -.00290 | -.00050 | -.00090 | .50200 | .23044 | 2.17843 |
| 1.048 | .510 | 9.75000 | .53720 | .14251 | -.02660 | -.01080 | .00040 | -.00210 | .50530 | .23143 | 2.18342 |
| 1.048 | 1.030 | 9.75000 | .53680 | .14375 | -.02680 | -.02130 | .00150 | -.00330 | .50460 | .23258 | 2.16957 |
| 1.046 | 2.070 | 9.72000 | .53650 | .14464 | -.02690 | -.03950 | .00340 | -.00620 | .50430 | .23314 | 2.16305 |
| 1.047 | 4.120 | 9.79000 | .54260 | .14695 | -.02700 | -.07730 | .00560 | -.01230 | .50970 | .23707 | 2.14998 |
| 1.047 | 6.190 | 9.91000 | .54440 | .14944 | -.02650 | -.11970 | .01360 | -.01850 | .51050 | .24090 | 2.11912 |
| | GRADIENT | -.00069 | .00022 | .00024 | .00000 | -.01837 | .00215 | -.00250 | .00017 | .00027 | -.00172 |

(RUK074) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

ELEVON =
 ALPHA =
 SPOBRK =
 BOFLAP =

PARAMETRIC DATA

RUN NO. 298/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 1.116 | -4.110 | 9.96000 | 54920 | .14182 | -.03360 | .06890 | -.00590 | .00810 | -.51630 | -.23467 | 2.20009 |
| 1.117 | -2.060 | 9.87000 | 53760 | .14056 | -.03380 | .03380 | -.00260 | .00350 | .50550 | .23063 | 2.19181 |
| 1.117 | -1.020 | 9.88000 | 53920 | .14023 | -.03330 | .01540 | -.00150 | .00090 | .50710 | .23067 | 2.19839 |
| 1.117 | -.500 | 9.94000 | 54470 | .13995 | -.03320 | .00620 | -.00090 | -.00020 | -.51230 | -.23187 | 2.20939 |
| 1.118 | .000 | 9.93000 | 54210 | .14055 | -.03390 | -.00270 | -.00040 | -.00140 | .50970 | .23193 | 2.19768 |
| 1.117 | .500 | 9.92000 | 54570 | .14070 | -.03260 | -.00800 | .00050 | -.00250 | -.51330 | -.23261 | 2.20674 |
| 1.117 | 1.030 | 9.92000 | 54750 | .14123 | -.03250 | -.01760 | .00080 | -.00390 | .51490 | .23344 | 2.20573 |
| 1.117 | 2.070 | 9.93000 | 54880 | .14249 | -.03560 | -.00150 | .00150 | -.00610 | .51600 | -.23499 | 2.19581 |
| 1.117 | 4.110 | 9.96000 | 54970 | .14391 | -.03410 | -.03560 | .00530 | -.01160 | .51650 | -.23682 | 2.18100 |
| 1.117 | 6.190 | 10.10000 | 55640 | .14475 | -.03320 | -.10880 | .00840 | -.01740 | .52230 | .24008 | 2.17552 |
| | GRADIENT | .00344 | .00075 | .00031 | .00002 | -.01647 | .00128 | -.00238 | .00069 | -.00047 | -.00142 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK075) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

ELEVON =
 ALPHA =
 SPOBRK =
 BOFLAP =

PARAMETRIC DATA

RUN NO. 224/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|
| 1.197 | -6.160 | 9.49000 | 51910 | .14014 | -.04490 | .09740 | -.00470 | .01180 | .48890 | -.22381 | 2.18445 |
| 1.197 | -4.090 | 9.46000 | 51620 | .13953 | -.04480 | .05840 | -.00390 | .00710 | .48620 | -.22247 | 2.18542 |
| 1.198 | -2.050 | 9.40000 | 51110 | .13875 | -.04510 | .02950 | -.00140 | .00270 | .48150 | -.22036 | 2.18503 |
| 1.197 | -1.010 | 9.41000 | 51340 | .13787 | -.04300 | .01160 | -.00150 | .00060 | .48390 | -.21995 | 2.20000 |
| 1.197 | -.490 | 9.39000 | 50900 | .13818 | -.04370 | .00300 | -.00110 | -.00010 | .47950 | -.21937 | 2.18622 |
| 1.197 | .000 | 9.39000 | 50840 | .13837 | -.04300 | -.00260 | -.00030 | -.00120 | .47900 | -.21946 | 2.18260 |
| 1.197 | .510 | 9.36000 | 50850 | .13902 | -.04260 | -.01150 | -.00010 | -.00200 | .47910 | -.21987 | 2.17901 |
| 1.198 | 1.030 | 9.40000 | 51240 | .13904 | -.04220 | -.01760 | .00040 | -.00320 | .48280 | -.22086 | 2.18599 |
| 1.197 | 2.050 | 9.38000 | 51290 | .14033 | -.04240 | -.03230 | .00130 | -.00520 | .48350 | -.22205 | 2.17612 |
| 1.198 | 4.100 | 9.45000 | 51560 | .14160 | -.04400 | -.06500 | .00260 | -.00990 | .48530 | -.22433 | 2.16330 |
| 1.196 | 6.160 | 9.54000 | 52030 | .14157 | -.04280 | -.09770 | .00480 | -.01530 | .48970 | -.22584 | 2.16831 |
| | GRADIENT | -.00241 | -.00000 | .00030 | .00023 | -.01502 | .00078 | -.00203 | -.00004 | .00027 | -.00284 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK076) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000
 AILRON = .000 ALPHA = 12.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 210/ 0 RN/L = 8.19 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .581 | -6.210 | 13.11000 | .64480 | -.00343 | .01340 | .11460 | -.01110 | .01460 | .62880 | .14291 | 4.39986 |
| .598 | -4.140 | 13.19000 | .64310 | -.00098 | .01970 | .07570 | -.00670 | .00880 | .62640 | .14579 | 4.29662 |
| .599 | -2.080 | 13.20000 | .63260 | .00034 | .02540 | .03940 | -.00340 | .00320 | .61580 | .14479 | 4.25318 |
| .599 | -1.030 | 13.21000 | .63080 | .00069 | .02700 | .01940 | -.00160 | .00050 | .61400 | .14482 | 4.23967 |
| .598 | -.510 | 13.11000 | .62870 | .00033 | .02780 | .01140 | -.00110 | -.00110 | .61230 | .14292 | 4.28410 |
| .599 | .000 | 13.11000 | .62730 | .00042 | .02780 | .00140 | -.00030 | -.00260 | .61090 | .14269 | 4.28119 |
| .599 | .500 | 13.12000 | .63110 | .00004 | .02890 | .00470 | .00070 | -.00380 | .61460 | .14329 | 4.28911 |
| .600 | 1.030 | 13.04000 | .61710 | .00137 | .02830 | -.01520 | .00110 | -.00500 | .60080 | .14057 | 4.27398 |
| .598 | 2.080 | 13.05000 | .61960 | .00087 | .02770 | -.03490 | .00260 | -.00790 | .60330 | .14075 | 4.28620 |
| .600 | 4.120 | 13.11000 | .63090 | -.00100 | .02290 | -.06650 | .00680 | -.01410 | .61460 | .14213 | 4.32428 |
| .599 | 6.210 | 13.20000 | .64370 | -.00247 | .01570 | -.10690 | .01050 | -.02040 | .62720 | .14458 | 4.33794 |
| | GRADIENT | -.01790 | -.00199 | .00004 | .00044 | -.01731 | .00158 | -.00275 | -.00192 | -.00061 | .00485 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK077) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 AILRON = .000 ALPHA = 12.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 215/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|--------|--------|---------|---------|---------|---------|--------|---------|
| .598 | -6.080 | 13.10000 | .63840 | .00682 | .01320 | .11250 | -.01170 | .01390 | .62020 | .15134 | 4.09815 |
| .599 | -4.050 | 13.04000 | .62950 | .00689 | .01870 | .07470 | -.00700 | .00850 | .61170 | .14875 | 4.11235 |
| .599 | -2.030 | 13.09000 | .62580 | .00767 | .02790 | .03690 | -.00290 | .00210 | .60870 | .14943 | 4.07350 |
| .598 | -1.010 | 13.07000 | .62490 | .00832 | .02800 | .02120 | -.00140 | .00070 | .60580 | .14942 | 4.05103 |
| .598 | -.500 | 13.05000 | .62140 | .00818 | .02800 | .01040 | -.00050 | -.00100 | .60350 | .14828 | 4.06996 |
| .599 | .000 | 13.04000 | .61820 | .00918 | .02770 | -.00090 | -.00040 | -.00200 | .60620 | .14843 | 4.04370 |
| .599 | .490 | 13.08000 | .61650 | .00936 | .02770 | -.00930 | .00100 | -.00330 | .59830 | .14864 | 4.02521 |
| .598 | 1.010 | 13.05000 | .61980 | .00894 | .02810 | -.01910 | .00200 | -.00450 | .60170 | .14866 | 4.04747 |
| .598 | 2.030 | 13.07000 | .61670 | .00924 | .02630 | -.03820 | .00400 | -.00680 | .59860 | .14846 | 4.03201 |
| .599 | 4.040 | 13.09000 | .62910 | .00821 | .02270 | -.07950 | .00880 | -.01280 | .61090 | .15048 | 4.05978 |
| .598 | 6.080 | 13.17000 | .63710 | .00331 | .01640 | -.10880 | .01220 | -.01750 | .61820 | .15422 | 4.00849 |
| | GRADIENT | .00359 | -.00068 | .00022 | .00030 | -.01817 | .00189 | -.00254 | -.00072 | .00010 | -.00765 |

(RUK078) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AIRLON = .000 ALPHA = 12.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 213/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CO | L/D |
|------|----------|----------|---------|--------|--------|---------|---------|---------|---------|--------|---------|
| .598 | -6.110 | 13.10000 | .63950 | .00329 | .01440 | .11230 | -.01080 | .01440 | .62210 | .14815 | 4.19918 |
| .599 | -4.070 | 13.05000 | .62370 | .00448 | .01980 | .07460 | -.00720 | .00880 | .60650 | .14520 | 4.17710 |
| .598 | -2.040 | 13.05000 | .62480 | .00558 | .02680 | .03750 | -.00360 | .00270 | .60740 | .14652 | 4.14561 |
| .597 | -1.010 | 13.03000 | .60660 | .00579 | .02730 | .01560 | -.00210 | -.00010 | .58960 | .14241 | 4.14028 |
| .598 | -.500 | 13.02000 | .62180 | .00490 | .03120 | .00190 | -.00020 | -.00170 | .60460 | .14486 | 4.17368 |
| .597 | .000 | 13.02000 | .60480 | .00530 | .03030 | .00040 | -.00030 | -.00270 | .58300 | .14142 | 4.15783 |
| .599 | .490 | 13.00000 | .61300 | .00568 | .03090 | -.00740 | .00080 | -.00410 | .59600 | .14343 | 4.15535 |
| .598 | 1.010 | 13.02000 | .61360 | .00645 | .02990 | -.01710 | .00140 | -.00530 | .59640 | .14452 | 4.12668 |
| .597 | 2.040 | 12.99000 | .60550 | .00588 | .02850 | -.03530 | .00300 | -.03800 | .58870 | .14183 | 4.15061 |
| .598 | 4.060 | 13.06000 | .62590 | .00603 | .02230 | -.07210 | .00820 | -.01360 | .60830 | .14731 | 4.12940 |
| .598 | 6.110 | 13.16000 | .63210 | .00556 | .01640 | -.10640 | .01210 | -.01930 | .61420 | .14932 | 4.11318 |
| | GRADIENT | -.00232 | -.00063 | .00018 | .00037 | -.01794 | .00182 | -.00272 | -.00365 | .00001 | -.00471 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK079) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AIRLON = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 137/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CO | L/D |
|------|----------|----------|--------|---------|----------|---------|---------|---------|--------|--------|---------|
| .596 | -6.120 | 14.52000 | .70500 | .00218 | .01260 | .11190 | -.01110 | .01450 | .68190 | .17887 | 3.81234 |
| .598 | -4.070 | 14.53000 | .70540 | .00355 | .01790 | .07530 | -.00740 | .00910 | .68200 | .18041 | 3.78023 |
| .597 | -2.040 | 14.49000 | .69730 | .00405 | .02330 | .03420 | -.00370 | .00410 | .67410 | .17839 | 3.77873 |
| .597 | -1.020 | 14.43000 | .69220 | .00476 | .02610 | .01870 | -.00110 | .00170 | .66910 | .17710 | 3.77801 |
| .598 | -.500 | 14.39000 | .68920 | .00591 | .02610 | .00890 | -.00360 | .00100 | .66610 | .17701 | 3.76317 |
| .597 | .000 | 14.41000 | .69600 | .00588 | .02550 | -.00160 | .00000 | .00000 | .67260 | .17890 | 3.75962 |
| .597 | .490 | 14.39000 | .68930 | .00641 | .02460 | -.00750 | .00100 | -.00100 | .66600 | .17751 | 3.75181 |
| .597 | 1.010 | 14.38000 | .67990 | .00670 | .02350 | -.01490 | .00200 | -.00210 | .65690 | .17534 | 3.74634 |
| .597 | 2.040 | 14.46000 | .70470 | .00654 | .02290 | -.03440 | .00330 | -.00330 | .66370 | .18230 | 3.73397 |
| .596 | 4.070 | 14.52000 | .70730 | .00652 | .01730 | -.07360 | .00760 | -.00950 | .68300 | .18364 | 3.71914 |
| .597 | 6.110 | 14.61000 | .71130 | .00576 | .01460 | -.10820 | .01190 | -.01580 | .68690 | .18499 | 3.71316 |
| | GRADIENT | -.00345 | .00024 | -.00015 | -.001791 | .00180 | -.00227 | -.00045 | .00012 | .00001 | -.00859 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK079) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 68/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .896 | -6.210 | 16.20000 | .78430 | .07515 | -.00520 | .11590 | -.00140 | .01310 | .73220 | .29098 | 2.51633 |
| .896 | -4.120 | 16.15000 | .78540 | .07660 | -.00310 | .07330 | -.00140 | .00970 | .73300 | .29217 | 2.50884 |
| .896 | -2.070 | 16.13000 | .78800 | .07662 | -.00140 | .03620 | -.00070 | .00370 | .73570 | .29252 | 2.51501 |
| .896 | -1.030 | 16.06000 | .78230 | .07761 | -.00180 | .01540 | .00020 | .00110 | .73030 | .29100 | 2.50963 |
| .896 | -.500 | 16.04000 | .77940 | .07780 | -.00150 | .00720 | .00000 | .00020 | .72750 | .29013 | 2.50753 |
| .896 | .000 | 16.06000 | .78400 | .07772 | -.00060 | -.00110 | -.00010 | -.00080 | .73190 | .29158 | 2.51016 |
| .896 | .510 | 16.04000 | .78160 | .07808 | -.00180 | -.00870 | -.00060 | -.00180 | .72960 | .29100 | 2.50719 |
| .896 | 1.040 | 16.04000 | .78000 | .07792 | -.00210 | -.01940 | -.00110 | -.00280 | .72810 | .29041 | 2.50717 |
| .896 | 2.080 | 16.03000 | .78190 | .07834 | -.00470 | -.03750 | -.00070 | -.00510 | .72980 | .29121 | 2.50611 |
| .896 | 4.140 | 16.16000 | .79310 | .07752 | -.00770 | -.07980 | -.00080 | -.00950 | .74010 | .29519 | 2.50717 |
| .896 | 6.220 | 16.20000 | .79530 | .07599 | -.00730 | -.12390 | .00190 | -.01300 | .74250 | .29485 | 2.51819 |
| | GRADIENT | -.00501 | .00040 | .00017 | -.00058 | -.01828 | .00010 | -.00226 | .00035 | .00021 | -.00062 |

RUN NO. 160/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .946 | -6.170 | 14.94000 | .79230 | .09526 | -.02330 | .10940 | -.01160 | .01910 | .74090 | .29630 | 2.50050 |
| .946 | -4.090 | 14.90000 | .79680 | .09440 | -.02540 | .06780 | -.00880 | .01290 | .74570 | .29611 | 2.51833 |
| .946 | -2.040 | 14.85000 | .79170 | .09373 | -.02800 | .02860 | -.00550 | .00650 | .74120 | .29350 | 2.52535 |
| .946 | -1.000 | 14.81000 | .79290 | .09388 | -.02850 | .01000 | -.00460 | .00360 | .74260 | .29344 | 2.53069 |
| .946 | -.740 | 14.82000 | .79250 | .09397 | -.02880 | .00170 | -.00330 | .00180 | .74210 | .29355 | 2.52800 |
| .947 | -.480 | 14.85000 | .79970 | .09426 | -.02770 | .00310 | -.00369 | .00190 | .74880 | .29607 | 2.52916 |
| .946 | .020 | 14.81000 | .79330 | .09406 | -.02810 | -.00400 | -.00360 | .00030 | .74290 | .29371 | 2.52933 |
| .946 | .530 | 14.85000 | .79620 | .09461 | -.02910 | -.01390 | -.00380 | -.00090 | .74530 | .29551 | 2.52210 |
| .947 | 1.050 | 14.80000 | .79510 | .09477 | -.03030 | -.02210 | -.00380 | -.00240 | .74450 | .29473 | 2.52603 |
| .945 | 2.050 | 14.84000 | .79540 | .09423 | -.03070 | -.02980 | .00440 | -.00810 | .74470 | .29481 | 2.52607 |
| .946 | 4.100 | 14.98000 | .80000 | .09395 | -.03160 | -.06990 | .00780 | -.01490 | .74840 | .29754 | 2.51527 |
| .946 | 6.170 | 15.05000 | .80030 | .09304 | -.02540 | -.10360 | .01010 | -.01990 | .74860 | .29779 | 2.51388 |
| | GRADIENT | .00705 | .00052 | .00001 | -.00074 | -.01618 | .00199 | -.00339 | .00045 | .00023 | -.00047 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK079) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = .0000 ELEVON = .000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 285/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .977 | -6.180 | 14.90000 | .82840 | .11629 | -.03500 | .11890 | -.01120 | .01660 | .77060 | .32539 | 2.36824 |
| .977 | -4.110 | 14.78000 | .82070 | .11497 | -.03600 | .07640 | -.00660 | .01120 | .76410 | .32053 | 2.38384 |
| .977 | -2.050 | 14.79000 | .82130 | .11548 | -.03640 | .03120 | -.00330 | .00500 | .76460 | .32131 | 2.37961 |
| .978 | -1.020 | 14.82000 | .82270 | .11508 | -.03620 | .01520 | -.00190 | .00290 | .76590 | .32168 | 2.38090 |
| .977 | -.500 | 14.86000 | .82010 | .11505 | -.03550 | .00870 | -.00080 | .00080 | .76310 | .32152 | 2.37339 |
| .977 | .000 | 14.85000 | .82160 | .11442 | -.03540 | .00000 | -.00120 | -.00030 | .76480 | .32117 | 2.38133 |
| .978 | .500 | 14.78000 | .81880 | .11560 | -.03670 | -.00760 | -.00010 | -.00220 | .76220 | .32066 | 2.37699 |
| .978 | 1.030 | 14.78000 | .81760 | .11606 | -.03620 | -.01850 | .00000 | -.00370 | .76090 | .32080 | 2.37191 |
| .977 | 2.070 | 14.79000 | .81940 | .11559 | -.03770 | -.03640 | .00130 | -.00570 | .76280 | .32093 | 2.37681 |
| .977 | 4.120 | 14.86000 | .82270 | .11449 | -.03650 | -.07670 | .00600 | -.01240 | .76580 | .32165 | 2.38086 |
| .978 | 6.190 | 14.98000 | .82720 | .11546 | -.03280 | -.11810 | .01020 | -.01820 | .76930 | .32535 | 2.36451 |
| | GRADIENT | .00551 | -.00003 | -.00001 | -.00011 | -.01806 | .00142 | -.00293 | -.00005 | .00005 | -.00057 |

RUN NO. 239/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| 1.048 | -6.190 | 14.74000 | .82270 | .14145 | -.04580 | .11090 | -.00750 | .01400 | .75960 | .34612 | 2.19463 |
| 1.048 | -4.110 | 14.70000 | .81740 | .14001 | -.04600 | .07310 | -.00500 | .00860 | .75510 | .34285 | 2.20243 |
| 1.047 | -2.060 | 14.66000 | .81850 | .13953 | -.04570 | .03680 | -.00350 | .00370 | .75650 | .34214 | 2.21111 |
| 1.049 | -1.020 | 14.67000 | .81780 | .13970 | -.04700 | .01580 | -.00140 | .00160 | .75580 | .34225 | 2.20830 |
| 1.047 | -.500 | 14.65000 | .82100 | .13943 | -.04660 | .00700 | -.00040 | .00010 | .75900 | .34254 | 2.21581 |
| 1.049 | .000 | 14.66000 | .81960 | .13952 | -.04630 | -.00120 | .00020 | -.00100 | .75750 | .34240 | 2.21230 |
| 1.048 | .510 | 14.65000 | .81720 | .13969 | -.04640 | -.01200 | .00050 | -.00240 | .75530 | .34183 | 2.20958 |
| 1.047 | 1.030 | 14.67000 | .81720 | .13984 | -.04710 | -.02080 | .00180 | -.00370 | .75510 | .34224 | 2.20636 |
| 1.048 | 2.070 | 14.65000 | .81950 | .14069 | -.04530 | -.03890 | .00360 | -.00650 | .75720 | .34338 | 2.20514 |
| 1.047 | 4.120 | 14.75000 | .82060 | .14072 | -.04550 | -.07600 | .00590 | -.01090 | .75770 | .34501 | 2.19617 |
| 1.049 | 6.190 | 14.83000 | .82490 | .14224 | -.04310 | -.11100 | .00690 | -.01620 | .76100 | .34864 | 2.18279 |
| | GRADIENT | .00411 | .00028 | .00012 | .00006 | -.01815 | .00150 | -.00240 | .00021 | .00025 | -.00096 |

DATE 01 MAR 77

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 99

(RUK080) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = .0000 ELEVON = .000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 225/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| 1.197 | -6.180 | 14.42000 | .78430 | .13582 | -.06720 | .09600 | -.00060 | .00980 | .72570 | .32685 | 2.22026 |
| 1.198 | -4.110 | 14.31000 | .78460 | .13379 | -.06850 | .06250 | -.00120 | .00470 | .72710 | .32357 | 2.24714 |
| 1.198 | -2.050 | 14.27000 | .77860 | .13275 | -.06440 | .03040 | -.00120 | .00230 | .72180 | .32057 | 2.25160 |
| 1.197 | -1.020 | 14.27000 | .77740 | .13260 | -.06320 | .01390 | -.00090 | .00060 | .72070 | .32013 | 2.25126 |
| 1.197 | -.500 | 14.24000 | .77570 | .13295 | -.06350 | .00580 | -.00090 | -.00030 | .71910 | .31967 | 2.24947 |
| 1.197 | .000 | 14.26000 | .77320 | .13340 | -.06560 | -.00300 | -.00060 | -.00120 | .71650 | .31975 | 2.24084 |
| 1.196 | .510 | 14.26000 | .77900 | .13348 | -.06370 | -.01190 | -.00020 | -.00240 | .72210 | .32125 | 2.24777 |
| 1.197 | 1.030 | 14.27000 | .77910 | .13363 | -.06340 | -.01840 | .00020 | -.00340 | .72210 | .32155 | 2.24570 |
| 1.198 | 2.070 | 14.25000 | .78150 | .13495 | -.06500 | -.03670 | .00100 | -.00390 | .72420 | .32317 | 2.24095 |
| 1.198 | 4.120 | 14.30000 | .78060 | .13607 | -.06670 | -.06980 | .00050 | -.00690 | .72280 | .32466 | 2.22632 |
| 1.198 | 6.190 | 14.40000 | .78030 | .13670 | -.06510 | -.10100 | -.00110 | -.01220 | .72180 | .32646 | 2.21100 |
| | GRADIENT | -.00161 | -.00016 | .00034 | .00013 | -.01611 | .00029 | -.00146 | -.00022 | .00027 | -.00254 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK081) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 3.500 ELEVON = .000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 216/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .599 | -6.080 | 15.15000 | .74200 | .00799 | .00980 | .11180 | -.01220 | .01210 | .71410 | .20176 | 3.53942 |
| .598 | -4.050 | 15.15000 | .74490 | .00825 | .01440 | .07460 | -.00710 | .00700 | .71690 | .20264 | 3.53779 |
| .598 | -2.030 | 15.04000 | .73520 | .00857 | .01850 | .03760 | -.00380 | .00280 | .70780 | .19906 | 3.55578 |
| .598 | -1.010 | 15.05000 | .73200 | .00908 | .01930 | .01690 | -.00210 | .00210 | .70450 | .19884 | 3.54303 |
| .598 | -.490 | 15.05000 | .74080 | .00973 | .02020 | .00990 | -.00150 | .00030 | .71290 | .20150 | 3.55788 |
| .599 | .000 | 15.01000 | .72510 | .01041 | .01970 | -.00200 | -.00090 | -.00040 | .69770 | .19785 | 3.52647 |
| .598 | .490 | 15.01000 | .73370 | .01006 | .02090 | -.00590 | -.00080 | -.00160 | .70600 | .19974 | 3.53467 |
| .599 | 1.010 | 15.02000 | .72870 | .01088 | .01980 | -.01590 | .00110 | -.00230 | .70100 | .19936 | 3.51633 |
| .598 | 2.030 | 15.05000 | .74670 | .01095 | .02050 | -.03410 | .00250 | -.00470 | .71830 | .20446 | 3.51309 |
| .598 | 4.050 | 15.10000 | .73970 | .01074 | -.07330 | -.03410 | .00730 | -.01020 | .71140 | .20306 | 3.50332 |
| .599 | 6.080 | 15.18000 | .74260 | .00980 | -.01650 | -.10720 | .00170 | -.01550 | .71410 | .20391 | 3.50204 |
| | GRADIENT | -.00510 | -.00010 | .00039 | .00007 | -.01803 | .00173 | -.00204 | -.00018 | .00028 | -.00585 |

(RUK082) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 214/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CO | L/D |
|------|----------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .598 | -6.110 | 14.97000 | .74110 | .00380 | .01410 | .11270 | -.01180 | .01260 | .71490 | .19511 | 3.66414 |
| .599 | -4.070 | 14.96000 | .73390 | .00423 | .01690 | .07570 | -.00720 | .00740 | .70800 | .19302 | 3.66803 |
| .598 | -2.040 | 14.89000 | .72790 | .00502 | .02110 | .03500 | -.00360 | .00300 | .70220 | .19190 | 3.65928 |
| .598 | -1.010 | 14.89000 | .72700 | .00632 | .02440 | .01600 | -.00250 | .00090 | .70090 | .19292 | 3.63310 |
| .600 | -.500 | 14.92000 | .72610 | .00667 | .02290 | .01010 | -.00130 | .00010 | .69990 | .19339 | 3.61903 |
| .599 | .000 | 14.88000 | .72470 | .00711 | .02270 | .00120 | -.00040 | -.00100 | .69860 | .19297 | 3.62023 |
| .598 | .500 | 14.90000 | .72610 | .00776 | .02000 | -.00870 | -.00030 | -.00210 | .69970 | .19420 | 3.60293 |
| .599 | 1.010 | 14.89000 | .72980 | .00768 | .02280 | -.01390 | .00100 | -.00330 | .70330 | .19495 | 3.60751 |
| .598 | 2.040 | 14.89000 | .72470 | .00717 | .02190 | -.03410 | .00290 | -.00500 | .69850 | .19315 | 3.61634 |
| .598 | 4.070 | 14.96000 | .72450 | .00698 | .01600 | -.07280 | .00760 | -.01000 | .69810 | .19377 | 3.60274 |
| .599 | 6.110 | 15.06000 | .73540 | .00712 | .01170 | -.10670 | .01170 | -.01600 | .70820 | .19795 | 3.57759 |
| | GRADIENT | .00347 | -.00094 | .00040 | -.00007 | -.01784 | .00176 | -.00210 | -.00103 | .00018 | -.00880 |

RUN NO. 265/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CO | L/D |
|------|----------|----------|--------|---------|---------|---------|---------|---------|--------|--------|---------|
| .947 | -6.160 | 14.82500 | .79520 | .09689 | -.02740 | .11190 | -.01250 | .01890 | .74390 | .29707 | 2.50416 |
| .948 | -4.090 | 14.71000 | .79860 | .09590 | -.02880 | .07050 | -.00890 | .01250 | .74800 | .29554 | 2.53094 |
| .948 | -2.040 | 14.66000 | .79330 | .09524 | -.02900 | .03340 | -.00580 | .00570 | .74330 | .29291 | 2.53764 |
| .948 | -1.000 | 14.65000 | .79140 | .09484 | -.02910 | .01260 | -.00610 | .00280 | .74160 | .29191 | 2.54049 |
| .947 | -.480 | 14.63000 | .78740 | .09532 | -.02990 | .00590 | -.00470 | .00110 | .73780 | .29111 | 2.53446 |
| .947 | .020 | 14.62000 | .78850 | .09515 | -.02920 | -.00300 | -.00470 | -.00040 | .73900 | .29109 | 2.53871 |
| .947 | .520 | 14.64000 | .78940 | .09541 | -.02930 | -.01120 | -.00460 | -.00180 | .73960 | .29183 | 2.53436 |
| .947 | 1.050 | 14.65000 | .79070 | .09529 | -.02960 | -.01900 | -.00400 | -.00330 | .74080 | .29217 | 2.53550 |
| .947 | 2.080 | 14.68000 | .79300 | .09527 | -.03130 | -.03580 | -.00320 | -.00610 | .74290 | .29312 | 2.53144 |
| .947 | 4.090 | 14.81000 | .80460 | .09497 | -.03220 | -.06950 | .00780 | -.01520 | .75350 | .29748 | 2.53292 |
| .947 | 6.160 | 14.84000 | .79540 | .09392 | -.02730 | -.11180 | .01150 | -.01970 | .74480 | .29451 | 2.52898 |
| | GRADIENT | .01013 | .00054 | -.00007 | -.00042 | -.01698 | .00170 | -.00326 | .00048 | .00020 | -.00008 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK083) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L =
 AILRON =
 GRIT =
 RUDDER =
 8.000 ELEVON = .000
 .000 ALPHA = 15.000
 1.000 SPDBRK = 25.000
 .000 BOFLAP = .000

RUN NO. 211/ 0 RN/L = 8.17 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|--------|---------|---------|---------|---------|---------|--------|--------|---------|
| .599 | -6.220 | 13.99000 | .69280 | -.00430 | .01180 | .11290 | -.01070 | .01610 | .67330 | .16331 | 4.12274 |
| .598 | -4.140 | 13.94000 | .67880 | -.00240 | .01960 | .07370 | -.00620 | .00970 | .65940 | .16120 | 4.09064 |
| .600 | -2.070 | 13.92000 | .66990 | -.00070 | .02250 | .03490 | -.00290 | .00390 | .65030 | .16048 | 4.05231 |
| .600 | -1.040 | 13.94000 | .67610 | -.00053 | .02700 | .02030 | -.00130 | .00160 | .65630 | .16236 | 4.04220 |
| .600 | -.510 | 13.91000 | .66870 | -.00012 | .02630 | .00910 | -.00060 | .00030 | .64910 | .16064 | 4.04078 |
| .599 | -.010 | 13.91000 | .67230 | -.00003 | .02640 | .00390 | .00080 | -.00080 | .65760 | .16159 | 4.03861 |
| .601 | 1.030 | 13.89000 | .67370 | .00063 | .02440 | -.00870 | .00130 | -.00170 | .65380 | .16257 | 4.02172 |
| .600 | 2.070 | 13.92000 | .66970 | .00125 | .02440 | -.01870 | .00300 | -.00390 | .64980 | .16187 | 4.01440 |
| .600 | 4.130 | 13.94000 | .67330 | .00067 | .02360 | -.03520 | .00380 | -.00640 | .65340 | .16262 | 4.01786 |
| .600 | 6.200 | 14.05000 | .68200 | -.00022 | .01910 | -.07160 | .00720 | -.01190 | .66190 | .16408 | 4.03391 |
| GRADIENT | | | .00036 | .00031 | -.00008 | -.01751 | .00164 | -.00258 | .00027 | .00037 | -.00758 |

RUN NO. 264/ 0 RN/L = 8.14 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|--------|---------|---------|---------|--------|---------|--------|--------|---------|
| .951 | -1.090 | 15.74000 | .85070 | .09572 | -.03320 | .02160 | .00320 | -.00010 | .79280 | .32290 | 2.45523 |
| .951 | -.560 | 15.73000 | .85110 | .09555 | -.03500 | .01440 | .00360 | -.00170 | .79330 | .32271 | 2.45825 |
| .950 | -.030 | 15.77000 | .85490 | .09460 | -.03570 | .00440 | .00310 | -.00340 | .79700 | .32338 | 2.46459 |
| .949 | .480 | 15.79000 | .85320 | .09420 | -.03570 | .00310 | .00310 | -.00460 | .79540 | .32281 | 2.46398 |
| .950 | 1.020 | 15.83000 | .86150 | .09474 | -.03560 | -.01100 | .00310 | -.00610 | .80290 | .32615 | 2.46175 |
| .950 | 2.090 | 15.89000 | .86830 | .09519 | -.03490 | -.03090 | .00350 | -.00960 | .80900 | .32929 | 2.45683 |
| .950 | 4.190 | 15.99000 | .87370 | .09521 | -.03420 | -.07020 | .00660 | -.01710 | .81360 | .33220 | 2.44910 |
| .950 | 6.330 | 16.00000 | .86040 | .09372 | -.03030 | -.11250 | .00890 | -.02180 | .80120 | .32725 | 2.44830 |
| GRADIENT | | | .00485 | -.00003 | .00000 | -.01744 | .00058 | -.00319 | .00437 | .00201 | -.00173 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK084) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00
 AILRON =
 GRIT =
 RUDDER =

4.500 ELEVON = .000
 .000 ALPHA = 20.000
 1.000 SPDBRK = 25.000
 .000 BDFLAP = .000

PARAMETRIC DATA

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .597 | -6.110 | 19.24000 | .97690 | .01005 | -.00570 | .11480 | -.01310 | .01770 | .91900 | .33140 | 2.77306 |
| .596 | -4.070 | 19.14000 | .97920 | .01280 | -.00330 | .07770 | -.00900 | .01130 | .92090 | .33315 | 2.76422 |
| .597 | -2.040 | 19.12000 | .98110 | .01352 | .00250 | .03740 | -.00430 | .00540 | .92250 | .33413 | 2.76089 |
| .597 | -1.020 | 19.17000 | .97890 | .01389 | -.00100 | .02000 | -.00220 | .00230 | .92000 | .33456 | 2.74985 |
| .596 | -.500 | 19.13000 | .97970 | .01482 | .00040 | .01190 | -.00160 | .00130 | .92070 | .33506 | 2.74785 |
| .596 | .000 | 19.11000 | .98930 | .01406 | .00110 | .00410 | -.00080 | -.00060 | .93010 | .33716 | 2.75859 |
| .597 | .490 | 19.11000 | .97520 | .01360 | .00290 | -.00540 | -.00130 | -.00130 | .91700 | .33211 | 2.76110 |
| .596 | 1.010 | 19.11000 | .96910 | .01370 | .00370 | -.01480 | .00130 | -.00270 | .91120 | .33021 | 2.75944 |
| .596 | 2.040 | 19.10000 | .98070 | .01206 | .00430 | -.03270 | .00350 | -.00600 | .92270 | .33230 | 2.77672 |
| .597 | 4.060 | 19.20000 | .97690 | .00986 | .00220 | -.07050 | .00950 | -.01120 | .91920 | .33055 | 2.78083 |
| .597 | 6.110 | 19.31000 | 1.00720 | .00853 | .00050 | -.10620 | .01170 | -.01620 | .94770 | .34111 | 2.77828 |
| GRADIENT | | .00300 | -.00052 | -.00036 | .00073 | -.01797 | .00218 | -.00276 | -.00039 | -.00046 | .00264 |

RUN NO. 138/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| .897 | -6.230 | 21.75000 | 1.02790 | .07542 | .03070 | .07860 | .02160 | .02210 | .92670 | .45095 | 2.05501 |
| .897 | -4.140 | 21.68000 | 1.02890 | .07905 | .01760 | .05550 | .01220 | .01270 | .92680 | .45352 | 2.04357 |
| .897 | -2.070 | 21.62000 | 1.03350 | .08101 | .01650 | .02470 | .00600 | .00660 | .93080 | .45610 | 2.04077 |
| .896 | -1.030 | 21.64000 | 1.03930 | .08104 | .01800 | .01280 | .00250 | .00320 | .93610 | .45859 | 2.04124 |
| .896 | -.500 | 21.64000 | 1.04080 | .08017 | .02050 | .00830 | -.00170 | .00080 | .93790 | .45834 | 2.04630 |
| .896 | .480 | 21.63000 | 1.04280 | .08031 | .02500 | -.00220 | .00270 | -.00060 | .93970 | .45904 | 2.04709 |
| .896 | 1.040 | 21.48000 | 1.03990 | .08052 | .01470 | -.01180 | -.00500 | -.00340 | .93820 | .45571 | 2.05875 |
| .897 | 2.080 | 21.48000 | 1.03420 | .08000 | .01200 | -.02530 | -.00890 | -.00650 | .93300 | .45314 | 2.05895 |
| .896 | 4.150 | 21.60000 | 1.03750 | .07801 | .01430 | -.05550 | -.01450 | -.01230 | .93580 | .45446 | 2.05914 |
| .895 | 6.210 | 21.61000 | 1.04380 | .07583 | .02050 | -.08930 | -.01270 | -.01930 | .94240 | .45492 | 2.07158 |
| GRADIENT | | -.01741 | .00085 | -.00015 | -.00053 | -.01304 | -.00323 | -.00303 | .00098 | -.00011 | .00265 |

RUN NO. 69/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK084) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AIRLON = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 159/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|---------|---------|---------|--------|--------|---------|
| .946 | -6.170 | 19.65000 | 1.04300 | .09185 | -.02720 | .08960 | .00080 | .02150 | .95140 | .43723 | 2.17595 |
| .947 | -4.100 | 19.57000 | 1.03720 | .09419 | -.03080 | .05290 | .00030 | .01400 | .94580 | .43617 | 2.16843 |
| .946 | -2.060 | 19.53000 | 1.03290 | .09368 | -.02890 | .02450 | .00320 | .00760 | .94210 | .43559 | 2.17279 |
| .946 | -1.030 | 19.54000 | 1.03850 | .09343 | -.02930 | .01130 | .00290 | .00330 | .94740 | .43539 | 2.17598 |
| .946 | -.500 | 19.50000 | 1.03160 | .09399 | -.03260 | .00180 | .00180 | .00160 | .94100 | .43295 | 2.17344 |
| .945 | .000 | 19.50000 | 1.03230 | .09331 | -.03020 | -.00250 | .00070 | .00010 | .94190 | .43255 | 2.17757 |
| .947 | .500 | 19.55000 | 1.03520 | .09365 | -.03300 | -.00670 | -.00160 | .00160 | .94420 | .43466 | 2.17228 |
| .947 | 1.030 | 19.55000 | 1.03970 | .09315 | -.03010 | -.01240 | -.00170 | -.00400 | .94860 | .43569 | 2.17722 |
| .945 | 2.070 | 19.59000 | 1.03830 | .09245 | -.02930 | -.02430 | -.00440 | -.00860 | .94710 | .43523 | 2.17610 |
| .947 | 4.120 | 19.66000 | 1.03860 | .09267 | -.02910 | -.05290 | -.00580 | -.01870 | .94690 | .43669 | 2.16835 |
| .945 | 6.190 | 19.70000 | 1.04520 | .08974 | -.02760 | -.08720 | -.00670 | -.02450 | .95380 | .43682 | 2.18351 |
| | GRADIENT | .01180 | .00044 | -.00021 | .00011 | -.01256 | -.00103 | -.00394 | .00039 | .00015 | .00016 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK085) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.000 ELEVON = .000
 AIRLON = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 226/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.197 | -6.190 | 19.03000 | 1.01560 | .13150 | -.08200 | .08520 | .00880 | .00860 | .91720 | .45546 | 2.01377 |
| 1.198 | -4.120 | 18.97000 | 1.02090 | .13315 | -.08360 | .05690 | .00500 | .00510 | .92210 | .45779 | 2.01426 |
| 1.197 | -2.070 | 18.90000 | 1.01660 | .13364 | -.08390 | .03110 | .00170 | .00170 | .91850 | .45573 | 2.01545 |
| 1.197 | -1.030 | 18.91000 | 1.01770 | .13329 | -.08440 | .01490 | .00080 | .00030 | .91950 | .45591 | 2.01682 |
| 1.197 | -.500 | 18.91000 | 1.01800 | .13309 | -.08390 | .00620 | .00020 | -.00030 | .91990 | .45582 | 2.01811 |
| 1.197 | .000 | 18.86000 | 1.01570 | .13346 | -.08460 | -.00300 | -.00050 | -.00130 | .91800 | .45463 | 2.01924 |
| 1.196 | .510 | 18.88000 | 1.01740 | .13334 | -.08340 | -.01140 | -.00390 | -.00210 | .91950 | .45538 | 2.01913 |
| 1.197 | 1.030 | 18.89000 | 1.01910 | .13337 | -.08330 | -.01730 | -.00100 | -.00300 | .92090 | .45612 | 2.01897 |
| 1.196 | 2.070 | 18.90000 | 1.01610 | .13380 | -.08220 | -.03100 | -.00170 | -.00420 | .91790 | .45572 | 2.01418 |
| 1.197 | 4.130 | 18.99000 | 1.01810 | .13277 | -.08080 | -.05950 | -.00620 | -.00770 | .91950 | .45684 | 2.01275 |
| 1.196 | 6.200 | 19.10000 | 1.01840 | .13010 | -.07810 | -.08990 | -.01000 | -.01180 | .91970 | .45618 | 2.01611 |
| | GRADIENT | .00104 | -.00025 | -.00002 | .00036 | -.01438 | -.00123 | -.00153 | -.00024 | -.00009 | -.00014 |

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUX086) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AIRLON = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 144/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .597 | -6.110 | .00000 | .11970 | .07113 | -.05610 | .11850 | -.01190 | .00700 | .11970 | .07113 | 1.68283 |
| .597 | -4.070 | -.01000 | .11770 | .07208 | -.05240 | .07590 | -.00790 | .00480 | .11770 | .07206 | 1.63337 |
| .597 | -2.050 | .05000 | .11770 | .07303 | -.04940 | .04140 | -.00310 | .00190 | .11770 | .07393 | 1.59199 |
| .597 | -1.020 | .01000 | .11050 | .07384 | -.04800 | .01970 | -.00140 | .00080 | .11050 | .07386 | 1.49609 |
| .597 | -.500 | .03000 | .11700 | .07406 | -.04690 | .00900 | -.00090 | .00020 | .11700 | .07412 | 1.45784 |
| .597 | .000 | -.04000 | .10730 | .07366 | -.04670 | .00230 | .00040 | -.00030 | .10740 | .07359 | 1.45954 |
| .597 | .490 | -.02000 | .10700 | .07396 | -.04810 | .00800 | .00140 | -.00090 | .10700 | .07392 | 1.44746 |
| .597 | 1.020 | -.01000 | .11350 | .07420 | -.04690 | .00170 | -.00130 | .00130 | .11350 | .07418 | 1.53006 |
| .596 | 2.040 | -.01000 | .11280 | .07449 | -.04860 | .00410 | -.00250 | .00250 | .11280 | .07447 | 1.51470 |
| .597 | 4.060 | .06000 | .12420 | .07408 | -.05240 | .00940 | -.00510 | .00510 | .12410 | .07421 | 1.67228 |
| .597 | 6.110 | .04000 | .12780 | .07367 | -.05470 | .11960 | .01420 | .00800 | .12770 | .07316 | 1.74551 |
| | GRADIENT | .00265 | .00033 | .00022 | .00005 | -.01887 | .00203 | -.00118 | .00032 | .00023 | -.00070 |

RUN NO. 74/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| .897 | -6.170 | .11000 | .06830 | .09128 | -.03550 | .12870 | -.01680 | .01350 | .06810 | .09141 | .74499 |
| .897 | -4.100 | .07000 | .06030 | .08780 | -.03320 | .08250 | -.01100 | .00920 | .06020 | .08787 | .68507 |
| .896 | -2.060 | .10000 | .05750 | .08605 | -.02640 | .04020 | -.00420 | .00460 | .05740 | .08615 | .66628 |
| .897 | -1.020 | .07000 | .05100 | .08669 | -.02430 | .01760 | -.00170 | .00250 | .05090 | .08675 | .58673 |
| .896 | -.490 | .15000 | .05870 | .08634 | -.02320 | .00330 | -.00080 | .00130 | .05650 | .08649 | .65327 |
| .896 | .000 | .12000 | .05610 | .08659 | -.02430 | .00620 | .00030 | .00030 | .05590 | .08671 | .64470 |
| .897 | 1.040 | .15000 | .06390 | .08732 | -.02490 | .02730 | .00260 | .00190 | .06360 | .08749 | .72697 |
| .897 | 2.060 | .08000 | .05640 | .08637 | -.02720 | .04580 | .00600 | -.00410 | .05620 | .08845 | .63540 |
| .896 | 4.100 | .09000 | .06270 | .09034 | -.03250 | -.08740 | .01200 | -.00690 | .06260 | .09043 | .69227 |
| .896 | 6.160 | .11000 | .06040 | .09249 | -.03590 | .13060 | .01830 | -.01270 | .06020 | .09261 | .65007 |
| | GRADIENT | .00133 | .00048 | .00037 | -.00003 | -.02077 | .00271 | -.00219 | .00048 | .00037 | .00257 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK086) (24 FEB 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

4.500 ELEVON = 10.000
 .000 ALPHA = .000
 1.000 SPOBRK = 25.000
 .000 BDFLAP = .000

RN/L =
 AILRON =
 GRIT =
 RUDDER =

RUN NO. 173/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .948 | -6.170 | .14000 | .05290 | .11725 | -.03160 | .12180 | -.01510 | .01300 | .05260 | .11738 | .44812 |
| .947 | -4.100 | .14000 | .05570 | .11474 | -.02880 | .07880 | -.00890 | .00840 | .05550 | .11488 | .48313 |
| .948 | -2.060 | .14000 | .05700 | .11470 | -.02670 | .03550 | -.00330 | .00390 | .05670 | .11484 | .49373 |
| .948 | -1.020 | .15000 | .05650 | .11511 | -.02740 | .01660 | -.00130 | .00180 | .05620 | .11526 | .48760 |
| .948 | .000 | .12000 | .05670 | .11512 | -.02630 | -.00140 | .00050 | .00010 | .05640 | .11524 | .48942 |
| .947 | .500 | .14000 | .05420 | .11443 | -.02630 | -.01110 | .00140 | -.00120 | .05390 | .11456 | .47049 |
| .947 | 1.030 | .20000 | .06680 | .11531 | -.02780 | -.02420 | .00160 | -.00230 | .05630 | .11554 | .57381 |
| .947 | 2.060 | .14000 | .05340 | .11615 | -.02840 | -.04070 | .00400 | -.00400 | .05310 | .11628 | .45666 |
| .948 | 4.110 | .13000 | .05310 | .11768 | -.02990 | -.08230 | .00920 | -.00860 | .05280 | .11780 | .44822 |
| .945 | 6.170 | .15000 | .05380 | .11588 | -.02980 | -.12270 | .01510 | -.01260 | .05350 | .11602 | .46113 |
| | GRADIENT | .00018 | -.00020 | .00033 | -.00017 | -.01941 | .00209 | -.00204 | -.00021 | .00033 | -.00314 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK087) (24 FEB 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

4.000 ELEVON = 10.000
 .000 ALPHA = .000
 1.000 SPOBRK = 25.000
 .000 BDFLAP = .000

RN/L =
 AILRON =
 GRIT =
 RUDDER =

RUN NO. 232/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|--------|---------|--------|
| 1.198 | -6.170 | -.13000 | .03960 | .16024 | -.02390 | .10940 | -.00830 | .00940 | .03990 | .16015 | .24914 |
| 1.197 | -4.110 | -.13000 | .04030 | .15988 | -.02250 | .07430 | -.00440 | .00580 | .04070 | .15879 | .25632 |
| 1.198 | -2.060 | -.12000 | .04020 | .15667 | -.02100 | .03310 | -.00150 | .00250 | .04060 | .15659 | .25928 |
| 1.197 | -1.020 | -.15000 | .03760 | .15623 | -.01950 | .01290 | -.00090 | .00100 | .03800 | .15613 | .24339 |
| 1.197 | -.500 | -.14000 | .03940 | .15558 | -.01910 | .00560 | -.00040 | .00030 | .03990 | .15548 | .25362 |
| 1.198 | .010 | -.13000 | .03800 | .15396 | -.01980 | -.00050 | -.00050 | .00000 | .03840 | .15577 | .24651 |
| 1.197 | .500 | -.10000 | .03980 | .15597 | -.01900 | -.01000 | .00130 | -.00130 | .04010 | .15590 | .25722 |
| 1.197 | 1.030 | -.05000 | .04460 | .15567 | -.02050 | -.02110 | .00150 | -.00210 | .04480 | .15562 | .28787 |
| 1.197 | 2.080 | -.04000 | .05480 | .15644 | -.02380 | -.03420 | .00220 | -.00330 | .05000 | .15640 | .35166 |
| 1.197 | 4.090 | -.09000 | .03820 | .15771 | -.01990 | -.06990 | .00810 | -.00690 | .03850 | .15765 | .24421 |
| 1.198 | 6.180 | -.05000 | .03810 | .15873 | -.01970 | -.11820 | .00980 | -.01040 | .03830 | .15870 | .24134 |
| | GRADIENT | .00987 | -.00065 | -.00013 | .00009 | -.01726 | .00159 | -.00152 | .00062 | -.00012 | .00421 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK088) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

4.500 ELEVON = 10.000
 .000 ALPHA = 5.000
 1.000 SPOBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 145/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .596 | -6.120 | 4.89000 | .35370 | .05868 | -.06050 | .12060 | -.01200 | .01110 | .34740 | .08862 | 3.92025 |
| .597 | -4.070 | 4.92000 | .35790 | .05899 | -.05660 | .07780 | -.00720 | .00700 | .35150 | .08947 | 3.92879 |
| .597 | -2.040 | 4.91000 | .35230 | .06032 | -.05250 | .03540 | -.00400 | .00340 | .34590 | .09025 | 3.83259 |
| .597 | -1.010 | 4.83000 | .34440 | .06044 | -.05190 | .01740 | -.00210 | .00150 | .33810 | .08922 | 3.78935 |
| .597 | -.500 | 4.88000 | .35250 | .05962 | -.04940 | .01210 | -.00100 | .00030 | .34620 | .08939 | 3.87288 |
| .597 | .000 | 4.84000 | .34660 | .05998 | -.05070 | -.00050 | -.00040 | -.00060 | .34030 | .08901 | 3.82317 |
| .597 | .500 | 4.84000 | .34840 | .06042 | -.05010 | .00040 | -.00150 | .00150 | .34210 | .08960 | 3.81807 |
| .596 | 1.020 | 4.86000 | .34820 | .06039 | -.05100 | -.01940 | .00190 | -.00200 | .34180 | .08967 | 3.81163 |
| .596 | 2.040 | 4.84000 | .34900 | .06121 | -.05260 | .00400 | -.00390 | .00400 | .34260 | .09044 | 3.78823 |
| .597 | 4.070 | 4.96000 | .36260 | .06015 | -.05790 | -.07750 | .00840 | -.00820 | .35600 | .09128 | 3.90029 |
| .596 | 6.120 | 5.05000 | .37130 | .05990 | -.06040 | -.11880 | .01330 | -.01210 | .36460 | .09235 | 3.94797 |
| | GRADIENT | .00068 | .00032 | .00016 | -.00011 | -.01888 | .00192 | -.00185 | .00030 | .00019 | -.00481 |

RUN NO. 73/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .896 | -6.170 | 5.59000 | .40940 | .08899 | -.07650 | .13090 | -.01770 | .01100 | .39880 | .12845 | 3.10480 |
| .896 | -4.110 | 5.54000 | .40950 | .08564 | -.07370 | .08620 | -.01170 | .00880 | .39930 | .12477 | 3.20020 |
| .897 | -2.060 | 5.57000 | .41010 | .08532 | -.06970 | .04080 | -.00480 | .00440 | .39990 | .12472 | 3.20633 |
| .897 | -1.020 | 5.53000 | .40320 | .08581 | -.06940 | .01780 | -.00220 | .00230 | .39310 | .12427 | 3.16338 |
| .897 | -.500 | 5.51000 | .40040 | .08560 | -.06750 | .00980 | -.00050 | .00140 | .39030 | .12365 | 3.15647 |
| .896 | .000 | 5.48000 | .39720 | .08559 | -.06660 | .00240 | .00040 | .00060 | .38720 | .12313 | 3.14463 |
| .896 | .500 | 5.54000 | .40120 | .08613 | -.06730 | -.01340 | .00200 | -.00030 | .39110 | .12446 | 3.14238 |
| .896 | 1.030 | 5.51000 | .40240 | .08626 | -.06620 | -.02370 | .00350 | -.00150 | .39220 | .12450 | 3.15021 |
| .897 | 2.060 | 5.51000 | .39740 | .08717 | -.06840 | -.04560 | .00650 | -.00400 | .38720 | .12493 | 3.09945 |
| .896 | 4.110 | 5.56000 | .40170 | .08831 | -.07110 | -.08870 | .01240 | -.00860 | .39120 | .12681 | 3.08482 |
| .896 | 6.170 | 5.62000 | .40590 | .08988 | -.07390 | -.13130 | .01910 | -.01180 | .39510 | .12920 | 3.05810 |
| | GRADIENT | -.00105 | -.00131 | .00035 | .00037 | -.02119 | .00288 | -.00209 | -.00134 | .00021 | -.01593 |

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TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK088) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 174 / 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|--------|---------|---------|---------|---------|---------|--------|---------|
| .948 | -6.160 | 5.08000 | .38610 | .11272 | -.08360 | .11540 | -.01440 | .01460 | .37460 | .14647 | 2.55761 |
| .948 | -4.100 | 5.01000 | .38220 | .11189 | -.08350 | .07290 | -.00850 | .00870 | .37090 | .14484 | 2.56076 |
| .947 | -2.060 | 4.98000 | .38170 | .11084 | -.07950 | .03620 | -.00360 | .00350 | .37060 | .14356 | 2.58157 |
| .946 | -1.030 | 4.97000 | .38140 | .11036 | -.07750 | .01860 | -.00140 | .00120 | .37040 | .14294 | 2.59044 |
| .946 | -.500 | 4.96000 | .37840 | .11109 | -.07860 | .00740 | -.00060 | .00020 | .36530 | .14322 | 2.55066 |
| .947 | .000 | 4.98000 | .37790 | .11166 | -.07640 | -.00230 | -.00030 | -.00070 | .36680 | .14404 | 2.54646 |
| .946 | .510 | 4.97000 | .37830 | .11174 | -.07880 | -.01140 | -.00090 | -.00180 | .36710 | .14416 | 2.54652 |
| .946 | 1.020 | 4.97000 | .37990 | .11111 | -.07770 | -.01830 | .00210 | -.00260 | .36890 | .14360 | 2.56886 |
| .946 | 2.050 | 4.98000 | .37720 | .11195 | -.08130 | -.03960 | .00370 | -.00490 | .36600 | .14427 | 2.53689 |
| .946 | 4.100 | 5.05000 | .38470 | .11255 | -.08240 | -.07540 | .00850 | -.00990 | .37330 | .14598 | 2.55726 |
| .947 | 6.170 | 5.09000 | .37640 | .11412 | -.08140 | -.11750 | .01360 | -.01500 | .36480 | .14706 | 2.48055 |
| | GRADIENT | .00389 | .00001 | .00014 | .00001 | -.01815 | .00199 | -.00220 | -.00001 | .00016 | -.00293 |

PARAMETRIC DATA

4.500 ELEVON = 10.000
 .000 ALPHA = 5.000
 1.000 SPOBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 288 / 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .978 | -6.160 | 5.17000 | .39210 | .13264 | -.08120 | .11100 | -.01230 | .01500 | .37850 | .16743 | 2.26061 |
| .977 | -4.110 | 5.10000 | .39050 | .13078 | -.08020 | .07370 | -.00630 | .00850 | .37730 | .16498 | 2.28701 |
| .977 | -2.060 | 5.11000 | .39100 | .13017 | -.07950 | .03550 | -.00270 | .00350 | .37780 | .16448 | 2.29696 |
| .977 | -1.030 | 5.03000 | .38780 | .13063 | -.07590 | .01760 | -.00090 | .00100 | .37480 | .16413 | 2.28358 |
| .977 | -.500 | 5.06000 | .38740 | .13129 | -.07740 | .00800 | -.00050 | .00000 | .37430 | .16495 | 2.26922 |
| .978 | .000 | 5.04000 | .38510 | .13162 | -.07580 | .00020 | .00000 | -.00070 | .37200 | .16494 | 2.25533 |
| .977 | .500 | 5.03000 | .38410 | .13178 | -.07600 | -.00800 | .00070 | -.00170 | .37110 | .16495 | 2.24978 |
| .977 | 1.030 | 5.11000 | .39400 | .13212 | -.07690 | -.01820 | .00030 | -.00230 | .38060 | .16631 | 2.28331 |
| .978 | 2.060 | 5.04000 | .38430 | .13310 | -.07810 | -.03560 | .00250 | -.00490 | .37110 | .16635 | 2.23088 |
| .977 | 4.100 | 5.11000 | .38930 | .13264 | -.07860 | -.07040 | .00700 | -.01050 | .37590 | .16679 | 2.25377 |
| .977 | 6.170 | 5.13000 | .38130 | .13288 | -.07980 | -.11370 | .01210 | -.01660 | .36790 | .16644 | 2.21038 |
| | GRADIENT | -.00081 | -.00031 | .00034 | .00019 | -.01748 | .00150 | -.00222 | -.00034 | .00031 | -.00631 |

(RUK088) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AIRLON =
 GRIT =
 RUDDER =

4.500 ELEVON = 10.000
 .000 ALPHA = 5.000
 1.000 SPDBRK = 25.000
 .000 BOFLAP = .000

RUN NO. 240/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| 1.049 | -6.170 | 4.87000 | .38240 | .16209 | -.08380 | .10750 | -.00930 | .01360 | .36730 | .19397 | 1.89360 |
| 1.047 | -4.110 | 4.85000 | .38250 | .16224 | -.08470 | .07140 | -.00540 | .00840 | .36740 | .19400 | 1.89383 |
| 1.047 | -2.070 | 4.81000 | .37450 | .16029 | -.08240 | .03490 | -.00180 | .00360 | .35970 | .19113 | 1.88199 |
| 1.048 | -1.030 | 4.79000 | .38140 | .15938 | -.08130 | .01730 | -.00090 | .00140 | .36670 | .19067 | 1.92320 |
| 1.048 | -.500 | 4.78000 | .37620 | .15967 | -.07990 | .00900 | -.00010 | .00060 | .36160 | .19046 | 1.89853 |
| 1.049 | .000 | 4.82000 | .37840 | .16002 | -.08020 | -.00020 | .00000 | -.00020 | .36360 | .19125 | 1.90118 |
| 1.047 | .510 | 4.82000 | .37860 | .16052 | -.08060 | -.01060 | .00050 | -.00150 | .36380 | .19176 | 1.89712 |
| 1.047 | 1.020 | 4.81000 | .38180 | .16042 | -.07980 | .01740 | .00140 | -.00260 | .36700 | .19187 | 1.91276 |
| 1.048 | 2.070 | 4.79000 | .37550 | .16193 | -.08070 | -.03560 | .00230 | -.00480 | .36070 | .19272 | 1.87163 |
| 1.048 | 4.110 | 4.88000 | .37920 | .16236 | -.08280 | -.06960 | .00620 | -.00960 | .36400 | .19403 | 1.87600 |
| 1.047 | 6.170 | 4.97000 | .38190 | .16236 | -.08330 | -.10950 | .01030 | -.01530 | .36630 | .19484 | 1.88005 |
| | GRADIENT | .00273 | -.00022 | .00012 | .00028 | -.01714 | .00131 | -.00215 | -.00023 | .00012 | -.00236 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK089) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AIRLON =
 GRIT =
 RUDDER =

4.000 ELEVON = 10.000
 .000 ALPHA = 5.000
 1.000 SPDBRK = 25.000
 .000 BOFLAP = .000

RUN NO. 233/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.197 | -6.160 | 4.50000 | .32900 | .15609 | -.08230 | .10140 | -.00620 | .01200 | .31540 | .18197 | 1.73323 |
| 1.198 | -4.100 | 4.58000 | .32900 | .15623 | -.08120 | .06440 | -.00360 | .00800 | .31540 | .18200 | 1.73295 |
| 1.197 | -2.050 | 4.54000 | .32790 | .15439 | -.07880 | .03000 | -.00140 | .00410 | .31470 | .17986 | 1.74969 |
| 1.198 | -1.010 | 4.56000 | .32870 | .15341 | -.07760 | .01130 | -.00120 | .00230 | .31550 | .17906 | 1.76201 |
| 1.197 | -.500 | 4.53000 | .32820 | .15319 | -.07700 | .00510 | -.00040 | .00110 | .31510 | .17863 | 1.76395 |
| 1.199 | .000 | 4.52000 | .32290 | .15337 | -.07690 | -.00240 | .00020 | .00000 | .30980 | .17834 | 1.73713 |
| 1.197 | .510 | 4.54000 | .32590 | .15352 | -.07650 | .01370 | .00000 | -.00100 | .31280 | .17883 | 1.74910 |
| 1.197 | 1.020 | 4.53000 | .32670 | .15353 | -.07570 | -.01510 | .00150 | -.00180 | .31350 | .17885 | 1.75283 |
| 1.198 | 2.060 | 4.52000 | .32350 | .15442 | -.07700 | -.03270 | .00220 | -.00380 | .31040 | .17943 | 1.72989 |
| 1.197 | 4.110 | 4.55000 | .32490 | .15581 | -.07660 | -.07110 | .00390 | -.00840 | .31150 | .18109 | 1.72011 |
| 1.197 | 6.170 | 4.64000 | .32270 | .15670 | -.07770 | -.10540 | .00720 | -.01280 | .30900 | .18229 | 1.69509 |
| | GRADIENT | -.00424 | -.00065 | -.00003 | .00055 | -.01613 | .00092 | -.00199 | -.00063 | -.00011 | -.00246 |

(RUK090) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 8.000 ELEVON = 10.000
 AILRON = .000 ALPHA = 5.000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 165/ 0 RN/L = 7.71 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .900 | -2.100 | 5.33000 | .39730 | .08629 | -.07050 | .04040 | -.00550 | .00270 | .38760 | .12282 | 3.15576 |
| .900 | -1.040 | 5.31000 | .39740 | .08642 | -.06980 | .01800 | -.00270 | .00030 | .38770 | .12283 | 3.15649 |
| .900 | -.500 | 5.29000 | .39240 | .08634 | -.06850 | .00550 | -.00140 | -.00030 | .38270 | .12215 | 3.13303 |
| .900 | .010 | 5.31000 | .39790 | .08631 | -.06770 | -.00560 | .00000 | -.00110 | .38820 | .12276 | 3.16219 |
| .901 | .520 | 5.34000 | .40160 | .08645 | -.06640 | -.01510 | .00170 | -.00170 | .39180 | .12345 | 3.17375 |
| .900 | 1.060 | 5.30000 | .39250 | .08740 | -.06970 | -.02730 | .00300 | -.00270 | .38270 | .12328 | 3.10427 |
| .900 | 2.130 | 5.27000 | .38970 | .08752 | -.06860 | -.05180 | .00630 | -.00470 | .38000 | .12294 | 3.09085 |
| .900 | 4.210 | 5.32000 | .38780 | .08922 | -.07060 | -.09390 | .01240 | -.00800 | .37780 | .12479 | 3.02744 |
| .899 | 6.310 | 5.37000 | .38440 | .09181 | -.07190 | -.13760 | .01800 | -.01190 | .37410 | .12738 | 2.93684 |
| | GRADIENT | -.00239 | -.00166 | .00048 | -.00006 | -.02138 | .00285 | -.00166 | -.00170 | .00031 | -.02152 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK091) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 ALPHA = 10.000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 146/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .597 | -6.110 | 10.03000 | .63490 | .02798 | -.06930 | .11560 | -.01310 | .01610 | .62030 | .13813 | 4.49073 |
| .597 | -4.070 | 10.01000 | .63010 | .02751 | -.06580 | .07650 | -.00920 | .01020 | .61570 | .13662 | 4.50682 |
| .597 | -2.040 | 9.99000 | .62440 | .02822 | -.06040 | .03560 | -.00400 | .00460 | .61000 | .13611 | 4.48165 |
| .597 | -1.010 | 9.95000 | .62130 | .02807 | -.05950 | .01830 | -.00260 | .00160 | .60710 | .13500 | 4.49699 |
| .597 | -.500 | 9.94000 | .62890 | .02829 | -.05820 | .01020 | -.00110 | .00050 | .60570 | .13504 | 4.49264 |
| .597 | .000 | 9.94000 | .61960 | .02873 | -.05910 | .00020 | -.00020 | -.00050 | .60530 | .13525 | 4.47535 |
| .597 | .500 | 9.95000 | .62270 | .02867 | -.05920 | .00030 | .00030 | -.00210 | .60830 | .13594 | 4.47475 |
| .597 | 1.020 | 9.93000 | .62260 | .02895 | -.05950 | -.01890 | .00200 | -.00330 | .60930 | .13578 | 4.47998 |
| .597 | 2.040 | 9.95000 | .63150 | .02857 | -.05000 | .00360 | .00360 | -.00580 | .61710 | .13736 | 4.49244 |
| .597 | 4.070 | 9.99000 | .62850 | .02872 | -.06320 | -.07710 | .00870 | -.01180 | .61400 | .13731 | 4.47149 |
| .597 | 6.110 | 10.09000 | .63630 | .02923 | -.06670 | -.11720 | .01440 | -.01250 | .62130 | .14025 | 4.42981 |
| | GRADIENT | -.00348 | .00023 | .00015 | .00026 | -.01862 | .00213 | -.00266 | .00022 | .00015 | -.00336 |

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK091) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 AIRLON = .000 ALPHA = 10.000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 72/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .897 | -6.180 | 11.0000 | .69270 | .08844 | -.09470 | .12150 | -.01040 | .01380 | .66310 | .21899 | 3.02801 |
| .896 | -4.110 | 10.94000 | .69030 | .08679 | -.09120 | .07990 | -.00780 | .00850 | .66130 | .21622 | 3.05848 |
| .897 | -2.060 | 10.95000 | .69360 | .08674 | -.08780 | .03740 | -.00340 | .00410 | .66450 | .21691 | 3.06346 |
| .897 | -1.020 | 10.93000 | .68850 | .08736 | -.08780 | .01780 | -.00210 | .00160 | .65950 | .21632 | 3.04870 |
| .897 | -.500 | 10.91000 | .69280 | .08735 | -.08730 | .00800 | -.00100 | .00050 | .66370 | .21690 | 3.06000 |
| .896 | .000 | 10.87000 | .68480 | .08700 | -.08130 | .00130 | -.00030 | -.00030 | .65610 | .21458 | 3.05761 |
| .897 | .500 | 10.92000 | .69190 | .08735 | -.08720 | -.00880 | .00030 | -.00170 | .66280 | .21684 | 3.05662 |
| .897 | 1.030 | 10.93000 | .68950 | .08760 | -.08870 | -.01970 | .00070 | .00290 | .65940 | .21656 | 3.04492 |
| .897 | 2.070 | 10.94000 | .69220 | .08706 | -.09010 | -.03970 | .00240 | -.00590 | .66310 | .21684 | 3.05796 |
| .897 | 4.110 | 11.02000 | .70140 | .08670 | -.09180 | -.07900 | .00690 | -.01030 | .67180 | .21918 | 3.06513 |
| .897 | 6.180 | 11.05000 | .70210 | .08807 | -.09330 | -.12100 | .01000 | -.01550 | .67220 | .22101 | 3.04155 |
| | GRADIENT | .00697 | .00094 | .00001 | -.00018 | -.01913 | .00169 | -.00231 | .00088 | .00027 | .00023 |

RUN NO. 172/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .948 | -5.160 | 10.29000 | .70280 | .10872 | -.11530 | .11920 | -.01690 | .01620 | .67210 | .23251 | 2.89059 |
| .948 | -4.100 | 10.16000 | .69090 | .10624 | -.11330 | .07530 | -.01010 | .01060 | .66130 | .22645 | 2.92033 |
| .947 | -2.060 | 10.13000 | .68360 | .10552 | -.11240 | .03540 | -.00390 | .00450 | .65440 | .22411 | 2.92002 |
| .947 | -1.020 | 10.12000 | .68200 | .10572 | -.11260 | .01650 | -.00240 | .00170 | .55280 | .22391 | 2.91546 |
| .947 | -.500 | 10.10000 | .68770 | .10639 | -.11120 | .00780 | -.00140 | .00040 | .65830 | .22534 | 2.92135 |
| .948 | .000 | 10.09000 | .68290 | .10688 | -.11210 | -.00150 | -.00070 | -.00080 | .65360 | .22487 | 2.90660 |
| .946 | .510 | 10.14000 | .68650 | .10577 | -.11140 | -.01000 | -.00020 | -.00220 | .65710 | .22498 | 2.92072 |
| .947 | 1.030 | 10.12000 | .68450 | .10617 | -.11130 | -.01940 | .00030 | -.00340 | .65520 | .22479 | 2.91470 |
| .947 | 2.070 | 10.18000 | .68600 | .10678 | -.11240 | -.03690 | .00220 | -.00610 | .65630 | .22634 | 2.89958 |
| .948 | 4.110 | 10.22000 | .69040 | .10769 | -.11510 | -.07500 | .00770 | -.01210 | .66030 | .22848 | 2.89000 |
| .948 | 6.170 | 10.27000 | .69480 | .10916 | -.11420 | -.11760 | .01470 | -.01650 | .66420 | .23128 | 2.87178 |
| | GRADIENT | .00825 | .00011 | .00019 | -.00014 | -.01811 | .00199 | -.00271 | .00004 | .00030 | -.00374 |

DATE 01 MAR 77

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK091) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 289/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .977 | -6.160 | 10.06000 | .69080 | .13136 | -.11470 | .11520 | -.01480 | .01570 | .65720 | .25001 | 2.62871 |
| .977 | -4.100 | 9.94000 | .67810 | .12833 | -.11420 | .07450 | -.01000 | .01000 | .64570 | .24346 | 2.65223 |
| .978 | -2.050 | 9.97000 | .68100 | .12781 | -.11310 | .03590 | -.00560 | .00530 | .64850 | .24378 | 2.66015 |
| .978 | -1.020 | 9.89000 | .67650 | .12747 | -.11180 | .01910 | -.00280 | .00230 | .64460 | .24177 | 2.65618 |
| .977 | -.500 | 9.88000 | .67370 | .12734 | -.11200 | .00900 | -.00160 | .00050 | .64190 | .24105 | 2.66295 |
| .978 | .000 | 9.85000 | .67690 | .12726 | -.11040 | .00010 | -.00050 | -.00080 | .64510 | .24118 | 2.67476 |
| .978 | .500 | 9.91000 | .67570 | .12895 | -.11220 | -.00960 | .00080 | -.00240 | .64360 | .24243 | 2.65481 |
| .977 | 1.020 | 9.92000 | .68040 | .12760 | -.11350 | -.01780 | .00170 | -.00430 | .64830 | .24291 | 2.66892 |
| .978 | 2.060 | 9.96000 | .68650 | .12969 | -.11590 | -.03470 | .00360 | -.00740 | .65370 | .24647 | 2.65222 |
| .977 | 4.100 | 10.03000 | .68960 | .12989 | -.11650 | -.07010 | .00800 | -.01310 | .65640 | .24801 | 2.64669 |
| .977 | 6.170 | 10.08000 | .69910 | .13071 | -.11710 | -.11220 | .01240 | -.01920 | .66540 | .25105 | 2.65046 |
| | GRADIENT | .00883 | .00142 | .00024 | -.00038 | -.01758 | .00221 | -.00289 | .00133 | .00058 | -.00090 |

RUN NO. 241/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| 1.047 | -6.170 | 9.80000 | .68380 | .15916 | -.12440 | .10040 | -.00760 | .01560 | .64680 | .27323 | 2.36726 |
| 1.047 | -4.100 | 9.77000 | .67760 | .15744 | -.12330 | .06470 | -.00500 | .00380 | .64100 | .27014 | 2.37284 |
| 1.048 | -2.050 | 9.72000 | .67050 | .15521 | -.12110 | .02970 | -.00260 | .00410 | .63460 | .26618 | 2.38406 |
| 1.047 | -1.020 | 9.73000 | .67050 | .15497 | -.11940 | .01550 | -.00120 | .00180 | .63460 | .26606 | 2.38519 |
| 1.048 | -.500 | 9.75000 | .67060 | .15536 | -.11970 | .00790 | -.00100 | .00050 | .63460 | .26668 | 2.37962 |
| 1.046 | .000 | 9.74000 | .67950 | .15573 | -.11900 | -.00050 | .00060 | -.00120 | .63450 | .26692 | 2.37713 |
| 1.048 | .510 | 9.75000 | .67140 | .15581 | -.11840 | -.00910 | -.00030 | .00310 | .63530 | .26726 | 2.37708 |
| 1.048 | 1.030 | 9.76000 | .67430 | .15655 | -.11800 | -.01550 | .00000 | -.00410 | .63790 | .26859 | 2.37497 |
| 1.048 | 2.060 | 9.75000 | .67800 | .15821 | -.12170 | -.02340 | .00130 | -.00610 | .64130 | .27074 | 2.36866 |
| 1.047 | 4.110 | 9.77000 | .67670 | .16015 | -.12380 | -.06720 | .00380 | -.01230 | .63950 | .27266 | 2.34579 |
| 1.047 | 6.180 | 9.89000 | .68430 | .16079 | -.12220 | -.10530 | .00710 | -.01780 | .64650 | .27582 | 2.34427 |
| | GRADIENT | .00207 | .00036 | .00043 | -.00003 | -.01584 | .00102 | -.00267 | .00026 | .00050 | -.00345 |

PARAMETRIC DATA

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK091) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 299/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

4.500 ELEVON = 10.000
 .000 ALPHA = 10.000
 1.000 SPOBRK = 25.000
 .000 BDFLAP = .000

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|--------|--------|---------|---------|---------|---------|--------|---------|
| 1.116 | -4.120 | 9.97000 | .46230 | .15646 | .02630 | .07790 | -.00830 | .01080 | .42820 | .23414 | 1.82885 |
| 1.117 | -2.060 | 9.92000 | .46400 | .15494 | .02460 | .03640 | -.00400 | .00490 | .43030 | .23256 | 1.85029 |
| 1.116 | -1.030 | 9.91000 | .46130 | .15419 | .02490 | .01750 | -.00160 | .00200 | .42790 | .23128 | 1.85014 |
| 1.117 | -.490 | 9.94000 | .46150 | .15404 | .02390 | .00470 | -.00040 | .00040 | .42800 | .23139 | 1.84969 |
| 1.117 | .000 | 9.91000 | .45940 | .15430 | .02440 | -.00290 | .00000 | -.00040 | .42600 | .23106 | 1.84367 |
| 1.117 | .510 | 9.93000 | .46170 | .15444 | .02430 | -.01090 | .00100 | -.00190 | .42820 | .23174 | 1.84773 |
| 1.117 | 1.030 | 9.87000 | .45850 | .15565 | .02480 | -.02050 | .00190 | -.00330 | .42510 | .23194 | 1.83281 |
| 1.118 | 2.070 | 9.88000 | .45840 | .15638 | .02510 | -.04040 | .00430 | -.00640 | .42470 | .23272 | 1.82498 |
| 1.117 | 4.120 | 9.92000 | .46020 | .15714 | .02690 | -.08010 | .00950 | -.01250 | .42630 | .23407 | 1.82124 |
| 1.117 | 6.190 | 10.02000 | .46440 | .15823 | .02950 | -.11990 | .01400 | -.01870 | .42980 | .23662 | 1.81643 |
| | GRADIENT | -.00742 | -.00051 | .00017 | .00008 | -.01899 | .00211 | -.00279 | -.00049 | .00002 | -.00227 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK092) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 234/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

4.000 ELEVON = 10.000
 .000 ALPHA = 10.000
 1.000 SPOBRK = 25.000
 .000 BDFLAP = .000

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| 1.197 | -6.150 | 9.59000 | .62180 | .15161 | -.12200 | .08810 | -.00320 | .01360 | .58780 | .25308 | 2.32258 |
| 1.198 | -4.090 | 9.50000 | .61640 | .15030 | -.12170 | .05530 | -.00270 | .00940 | .58310 | .24997 | 2.33264 |
| 1.198 | -2.050 | 9.48000 | .61460 | .14837 | -.11870 | .02690 | -.00690 | .00500 | .58170 | .24757 | 2.34963 |
| 1.197 | -1.020 | 9.45000 | .60920 | .14751 | -.11820 | .01290 | -.00030 | .00240 | .57670 | .24553 | 2.34879 |
| 1.198 | -.490 | 9.42000 | .60370 | .14778 | -.11770 | .00430 | -.00020 | .00110 | .57130 | .24459 | 2.33570 |
| 1.197 | .000 | 9.43000 | .60760 | .14790 | -.11690 | -.00410 | .00030 | -.00020 | .57510 | .24545 | 2.34302 |
| 1.198 | .510 | 9.47000 | .60530 | .14831 | -.11690 | -.01200 | .00130 | -.00130 | .57260 | .24578 | 2.32972 |
| 1.198 | 1.030 | 9.45000 | .60710 | .14853 | -.11690 | -.01730 | .00040 | -.00280 | .57440 | .24619 | 2.33314 |
| 1.198 | 2.060 | 9.43000 | .60690 | .14940 | -.11640 | -.03290 | .00090 | -.00280 | .57420 | .24682 | 2.32642 |
| 1.199 | 4.100 | 9.52000 | .61470 | .15203 | -.11620 | -.06170 | .00210 | -.00990 | .58110 | .25160 | 2.30959 |
| 1.198 | 6.180 | 9.60000 | .61670 | .15347 | -.11660 | -.09940 | .00180 | -.01510 | .58250 | .25417 | 2.29180 |
| | GRADIENT | .00009 | -.00054 | .00023 | .00065 | -.01438 | .00054 | -.00239 | -.00057 | .00014 | -.00362 |

(RUK093) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 147/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .596 | -6.120 | 14.62000 | .89290 | .01744 | -.07770 | -.11750 | -.01290 | .01240 | .86950 | .24225 | 3.54799 |
| .596 | -4.070 | 14.57000 | .88270 | .01547 | -.07410 | .07680 | -.00730 | .00920 | .85040 | .23703 | 3.58778 |
| .597 | -2.040 | 14.57000 | .89160 | .01752 | -.07050 | .03750 | -.00380 | .00490 | .85850 | .24125 | 3.55855 |
| .597 | -1.010 | 14.59000 | .89430 | .01823 | -.06880 | .01750 | -.00200 | .00380 | .86080 | .24292 | 3.54360 |
| .597 | -.500 | 14.50000 | .87320 | .01810 | -.06950 | -.00900 | -.00060 | .00280 | .84080 | .23616 | 3.56037 |
| .597 | .000 | 14.51000 | .88830 | .01932 | -.06730 | -.00290 | -.00110 | .00230 | .85510 | .24127 | 3.54421 |
| .596 | .500 | 14.48000 | .87510 | .01877 | -.06960 | -.00990 | .00080 | .00110 | .84260 | .23699 | 3.55549 |
| .597 | 1.020 | 14.50000 | .88910 | .01970 | -.06990 | -.02010 | .00150 | .00030 | .85580 | .24169 | 3.54097 |
| .597 | 2.040 | 14.51000 | .88480 | .01933 | -.07070 | -.03600 | .00340 | -.00170 | .85170 | .24040 | 3.54286 |
| .597 | 4.070 | 14.59000 | .89130 | .02061 | -.07710 | -.07930 | .00930 | -.00680 | .85730 | .24446 | 3.50685 |
| .597 | 6.110 | 14.67000 | .89910 | .02165 | -.07800 | -.11610 | .01480 | -.01130 | .86430 | .24864 | 3.47607 |
| | GRADIENT | -.00323 | .00038 | .00060 | -.00031 | -.01892 | .00197 | -.00189 | .00023 | .00063 | -.00833 |

RUN NO. 71/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .896 | -6.210 | 16.26000 | .96950 | .09514 | -.11630 | .10960 | .00120 | .01310 | .90410 | .36279 | 2.49207 |
| .897 | -4.130 | 16.17000 | .96600 | .09761 | -.11550 | .07110 | .00040 | .01050 | .90050 | .36296 | 2.48099 |
| .897 | -2.070 | 16.16000 | .96610 | .09804 | -.11430 | .03210 | .00100 | .00470 | .90060 | .36305 | 2.48064 |
| .897 | -1.030 | 16.12000 | .96460 | .09867 | -.11540 | .01590 | .00080 | .00330 | .89920 | .36261 | 2.47979 |
| .897 | -.500 | 16.16000 | .96770 | .09848 | -.11510 | .00560 | .00040 | .00090 | .90200 | .36392 | 2.47857 |
| .897 | .000 | 16.12000 | .97250 | .09980 | -.11360 | -.00120 | .00000 | .00000 | .90680 | .36493 | 2.48486 |
| .896 | .510 | 16.10000 | .96610 | .09908 | -.11520 | -.01090 | -.00070 | -.00110 | .90370 | .36311 | 2.48053 |
| .896 | 1.040 | 16.10000 | .96470 | .09920 | -.11670 | -.01960 | -.00110 | -.00200 | .89930 | .36283 | 2.47854 |
| .897 | 2.080 | 16.16000 | .97210 | .09890 | -.11560 | -.03660 | -.00140 | -.00430 | .90620 | .36555 | 2.47902 |
| .896 | 4.140 | 16.28000 | .98490 | .09792 | -.11970 | -.07830 | .00100 | -.00830 | .91800 | .37009 | 2.48046 |
| .896 | 6.210 | 16.35000 | .98610 | .09442 | -.11720 | -.11270 | -.00200 | -.01270 | .91960 | .36819 | 2.49760 |
| | GRADIENT | .00889 | .00198 | .00007 | -.00052 | -.01772 | -.00029 | -.00224 | .00183 | .00076 | -.00013 |

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

LA70 BASELINE NO. 3 (GAFS SEALED, GRIT ON)

(RJK093) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.6000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 171/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .948 | -6.160 | 15.11000 | .96140 | .11440 | -1.3010 | .10640 | -0.1090 | .02080 | .89830 | .36106 | 2.48798 |
| .947 | -4.090 | 14.96000 | .94900 | .11339 | -1.2990 | .06700 | -0.0780 | .01400 | .88750 | .35453 | 2.50334 |
| .946 | -2.040 | 14.96000 | .95510 | .11205 | -1.3290 | .02600 | -0.0490 | .00770 | .89370 | .35481 | 2.51804 |
| .947 | -1.000 | 14.94000 | .95070 | .11145 | -1.3320 | .00990 | -0.0420 | .00440 | .86980 | .35278 | 2.52225 |
| .948 | -.480 | 14.94000 | .95740 | .11216 | -1.3380 | .00210 | -0.0430 | .00260 | .89610 | .35519 | 2.52285 |
| .948 | .020 | 14.94000 | .95490 | .11199 | -1.3440 | -.00530 | -0.0430 | .00100 | .89370 | .35438 | 2.52184 |
| .946 | .530 | 14.91000 | .94900 | .11190 | -1.3330 | -.01320 | -0.0390 | -.00070 | .88820 | .35231 | 2.52106 |
| .946 | 1.050 | 14.95000 | .95350 | .11254 | -1.3420 | -.02130 | -0.0430 | -.00240 | .89220 | .35471 | 2.51529 |
| .947 | 2.090 | 14.97000 | .95420 | .11253 | -1.3320 | -.03690 | -0.0430 | -.00550 | .89270 | .35519 | 2.51328 |
| .948 | 4.100 | 15.10000 | .95940 | .11437 | -1.3760 | -.06820 | -0.0640 | -.01480 | .89640 | .36035 | 2.48759 |
| .948 | 6.170 | 15.20000 | .96040 | .11295 | -1.3110 | -.10770 | -.0970 | -.02060 | .89720 | .36081 | 2.48666 |
| | GRADIENT | .01313 | .00088 | .00013 | -.00074 | -.01619 | .00133 | -.00344 | .00074 | .00056 | -.00187 |

RUN NO. 242/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|--------|--------|----------|---------|---------|---------|--------|--------|---------|
| 1.047 | -6.190 | 14.77000 | .95400 | .15683 | -1.13730 | .10460 | -0.0580 | .01490 | .88240 | .39486 | 2.23472 |
| 1.048 | -4.110 | 14.75000 | .95570 | .15477 | -1.1310 | .06770 | -0.0460 | .00820 | .88470 | .39299 | 2.25119 |
| 1.047 | -2.070 | 14.72000 | .94990 | .15428 | -1.13890 | .03630 | -0.0300 | .00310 | .87950 | .39058 | 2.25177 |
| 1.047 | -1.030 | 14.73000 | .95370 | .15396 | -1.13950 | .01900 | -0.0180 | .00140 | .88320 | .39139 | 2.25656 |
| 1.049 | -.510 | 14.68000 | .94420 | .15429 | -1.14030 | .01060 | -0.0090 | .00040 | .87420 | .38853 | 2.25000 |
| 1.047 | .000 | 14.68000 | .94760 | .15399 | -1.13890 | -.00070 | -0.0010 | -.00080 | .87760 | .38910 | 2.25544 |
| 1.048 | .510 | 14.71000 | .94860 | .15432 | -1.13880 | -.00870 | -0.0180 | -.00180 | .87830 | .39014 | 2.25126 |
| 1.047 | 1.030 | 14.72000 | .95000 | .15443 | -1.13910 | -.01780 | -0.0220 | -.00270 | .87950 | .39075 | 2.25079 |
| 1.047 | 2.070 | 14.66000 | .94910 | .15490 | -1.13950 | -.03520 | -0.0160 | -.00470 | .87890 | .39006 | 2.25326 |
| 1.047 | 4.120 | 14.77000 | .95700 | .15566 | -1.14140 | -.06990 | -0.0340 | -.01000 | .88570 | .39449 | 2.24516 |
| 1.048 | 6.180 | 14.91000 | .95750 | .15825 | -1.13870 | -.10120 | -0.0490 | -.01660 | .88460 | .39929 | 2.21514 |
| | GRADIENT | -.00081 | .00005 | .00012 | -.00022 | -.01690 | .00490 | -.00214 | .00003 | .00012 | -.00060 |

DATE 01 MAR 77

TABLATED SOURCE DATA, CALSPAN T1B-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK094) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.000 ELEVON = 10.000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 235/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| 1.196 | -6.170 | 14.48000 | .88930 | .14944 | -.14690 | .08610 | .00200 | .01190 | .82370 | .36706 | 2.24408 |
| 1.197 | -4.110 | 14.42000 | .88650 | .14695 | -.14530 | .05980 | .00070 | .00620 | .82200 | .36308 | 2.26394 |
| 1.199 | -2.060 | 14.37000 | .88930 | .14585 | -.14210 | .02860 | -.00070 | .00130 | .82530 | .36200 | 2.27986 |
| 1.198 | -1.020 | 14.35000 | .88310 | .14606 | -.14090 | .01530 | -.00020 | .00000 | .81940 | .36037 | 2.27375 |
| 1.199 | -.490 | 14.34000 | .88470 | .14562 | -.14160 | .00480 | -.00040 | .00070 | .82100 | .36020 | 2.27928 |
| 1.199 | .000 | 14.36000 | .88340 | .14611 | -.14210 | -.00210 | -.00010 | .00140 | .81960 | .36064 | 2.27262 |
| 1.198 | .510 | 14.35000 | .88480 | .14645 | -.14180 | -.01150 | -.00010 | .00180 | .82080 | .36117 | 2.27259 |
| 1.198 | 1.040 | 14.37000 | .88530 | .14701 | -.14260 | -.02170 | -.00030 | .00250 | .82110 | .36213 | 2.26744 |
| 1.199 | 2.070 | 14.35000 | .88750 | .14772 | -.14210 | -.03480 | .00030 | .00360 | .82310 | .36307 | 2.26704 |
| 1.198 | 4.120 | 14.41000 | .88400 | .15035 | -.14370 | -.06490 | -.00050 | .00810 | .81870 | .36561 | 2.23926 |
| 1.198 | 6.190 | 14.47000 | .88450 | .15116 | -.14390 | -.09240 | -.00320 | .01460 | .81870 | .36738 | 2.22850 |
| | GRADIENT | -.00127 | -.00026 | .00043 | .00011 | -.01533 | -.00006 | -.00160 | -.00037 | .00033 | -.00306 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 ALPHA = 20.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 148/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .597 | -6.120 | 19.31000 | 1.16570 | .02797 | -.09660 | .12160 | -.01510 | .01690 | 1.09080 | .41187 | 2.64841 |
| .597 | -4.070 | 19.27000 | 1.17100 | .02830 | -.09460 | .08210 | -.01020 | .01060 | 1.09600 | .41317 | 2.65267 |
| .597 | -2.040 | 19.24000 | 1.17160 | .03139 | -.09310 | .03870 | -.00500 | .00550 | 1.09580 | .41571 | 2.63538 |
| .597 | -1.010 | 19.18000 | 1.16910 | .03216 | -.09190 | .02070 | -.00340 | .00130 | 1.09360 | .41447 | 2.63857 |
| .597 | -.500 | 19.22000 | 1.16880 | .03041 | -.08940 | .01280 | -.00130 | .00040 | 1.09360 | .41348 | 2.64487 |
| .597 | .000 | 19.19000 | 1.15780 | .03133 | -.09110 | .00280 | -.00050 | .00130 | 1.08310 | .41016 | 2.64068 |
| .597 | .490 | 19.19000 | 1.16340 | .03132 | -.09090 | -.00580 | -.00080 | .00310 | 1.08840 | .41199 | 2.64180 |
| .596 | 1.010 | 19.17000 | 1.15780 | .03024 | -.09050 | -.01700 | .00220 | .00460 | 1.08360 | .40875 | 2.65099 |
| .597 | 2.040 | 19.17000 | 1.17310 | .02934 | -.08960 | -.03420 | .00380 | .00700 | 1.09640 | .41293 | 2.66904 |
| .597 | 4.070 | 19.32000 | 1.18120 | .02725 | -.09420 | -.07510 | .00960 | .01150 | 1.10570 | .41651 | 2.65469 |
| .596 | 6.110 | 19.30000 | 1.16940 | .02937 | -.09360 | -.11200 | .01370 | .01670 | 1.09400 | .41422 | 2.64109 |
| | GRADIENT | .00082 | .00069 | -.00023 | .00021 | -.01901 | .00239 | -.00280 | .00073 | .00015 | -.00155 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK095) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 70/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .896 | -6.210 | 21.68000 | 1.18870 | .09522 | -.03680 | .05780 | .02670 | .02510 | 1.06930 | .52762 | 2.02666 |
| .897 | -4.130 | 21.48000 | 1.12780 | .10224 | -.07630 | .04420 | -.01550 | .01430 | 1.01200 | .50811 | 1.99168 |
| .896 | -2.080 | 21.53000 | 1.17040 | .10211 | -.06680 | .02690 | .00570 | .00440 | 1.05130 | .52451 | 2.00435 |
| .896 | -1.030 | 21.45000 | 1.15490 | .10345 | -.07050 | .01290 | .00310 | .00300 | 1.03710 | .51862 | 1.99973 |
| .896 | -.510 | 21.47000 | 1.15440 | .10341 | -.07390 | .01070 | .00080 | .00000 | 1.03640 | .51876 | 1.99784 |
| .897 | .000 | 21.43000 | 1.14840 | .10413 | -.07390 | .00290 | -.00160 | -.00020 | 1.03090 | .51652 | 1.99588 |
| .897 | .510 | 21.53000 | 1.17250 | .10223 | -.06390 | -.00220 | -.00360 | -.00180 | 1.05310 | .52539 | 2.00441 |
| .896 | 1.040 | 21.49000 | 1.16660 | .10203 | -.06730 | -.00610 | -.00290 | -.00290 | 1.04810 | .52231 | 2.00667 |
| .895 | 2.080 | 21.53000 | 1.16330 | .10066 | -.06860 | -.02420 | -.00870 | -.00430 | 1.04510 | .52055 | 2.00767 |
| .896 | 4.140 | 21.64000 | 1.15910 | .09859 | -.06910 | -.04580 | -.01660 | -.01190 | 1.04090 | .51909 | 2.00525 |
| .896 | 6.220 | 21.71000 | 1.19200 | .09391 | -.04490 | -.07320 | -.02290 | -.02090 | 1.07260 | .52818 | 2.03075 |
| GRADIENT | | .01612 | .00299 | -.00044 | .00076 | -.01116 | -.00383 | -.00293 | .00278 | .00097 | .00162 |

RUN NO. 170/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .946 | -6.170 | 19.91000 | 1.18900 | .11734 | -.11290 | .09420 | -.00130 | .01990 | 1.07800 | .51523 | 2.09226 |
| .947 | -4.090 | 19.78000 | 1.17140 | .12018 | -.12140 | .05700 | -.00190 | .01140 | 1.06160 | .50950 | 2.08360 |
| .947 | -2.050 | 19.82000 | 1.18380 | .11859 | -.12470 | .02360 | .00050 | .00680 | 1.07340 | .51295 | 2.09259 |
| .947 | -1.020 | 19.78000 | 1.18030 | .11838 | -.12360 | .01120 | .00100 | .00350 | 1.07050 | .51082 | 2.09565 |
| .947 | -.500 | 19.82000 | 1.18440 | .11828 | -.12260 | .00640 | .00050 | .00150 | 1.07410 | .51286 | 2.09432 |
| .947 | .000 | 19.76000 | 1.17820 | .11834 | -.12510 | .00250 | -.00070 | -.00170 | 1.06870 | .50970 | 2.09673 |
| .947 | .500 | 19.82000 | 1.18060 | .11811 | -.12160 | -.00370 | -.00210 | -.00340 | 1.07060 | .51142 | 2.09341 |
| .948 | 1.020 | 19.80000 | 1.17500 | .11856 | -.12430 | -.00840 | -.00270 | -.00560 | 1.06530 | .50957 | 2.09059 |
| .947 | 2.060 | 19.88000 | 1.18610 | .11759 | -.12050 | -.02180 | -.00420 | -.00860 | 1.07530 | .51392 | 2.09236 |
| .947 | 4.120 | 19.94000 | 1.18430 | .11752 | -.11980 | -.05750 | -.00430 | -.01550 | 1.07320 | .51436 | 2.08646 |
| .947 | 6.190 | 20.04000 | 1.18760 | .11609 | -.11510 | -.09940 | -.00640 | -.02250 | 1.07590 | .51602 | 2.08496 |
| GRADIENT | | .01793 | .00113 | -.00029 | .00034 | -.01315 | -.00055 | -.00344 | .00099 | .00045 | .00012 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.000 ELEVON = 10.000
 AILRON = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 236/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| 1.198 | -6.190 | 19.11000 | 1.12170 | .14910 | -.15960 | -.08380 | .00980 | .00900 | 1.01100 | .50811 | 1.98973 |
| 1.198 | -4.120 | 19.07000 | 1.12200 | .15021 | -.16070 | .05710 | .00510 | .00520 | 1.01130 | .50855 | 1.98860 |
| 1.199 | -2.070 | 18.99000 | 1.12120 | .14879 | -.16010 | .02840 | .00210 | .00190 | 1.01160 | .50553 | 2.00105 |
| 1.198 | -1.020 | 18.99000 | 1.12210 | .14864 | -.15890 | .01170 | .00110 | .00060 | 1.01260 | .50569 | 2.00243 |
| 1.198 | -.500 | 18.96000 | 1.12070 | .14890 | -.15970 | .00520 | .00060 | -.00010 | 1.01140 | .50495 | 2.00299 |
| 1.198 | .000 | 18.97000 | 1.12380 | .14910 | -.15970 | -.00200 | -.00020 | -.00090 | 1.01430 | .50632 | 2.00328 |
| 1.198 | .510 | 18.98000 | 1.12410 | .14928 | -.16000 | -.01140 | -.00120 | -.00180 | 1.01440 | .50676 | 2.00172 |
| 1.198 | 1.030 | 18.98000 | 1.12530 | .14945 | -.15950 | -.01630 | -.00120 | -.00260 | 1.01540 | .50732 | 2.00152 |
| 1.198 | 2.080 | 19.00000 | 1.12440 | .15069 | -.15980 | -.03270 | -.00260 | -.00420 | 1.01400 | .50855 | 1.99391 |
| 1.198 | 4.130 | 19.01000 | 1.12360 | .15092 | -.15810 | -.05990 | -.00640 | -.00740 | 1.01320 | .50868 | 1.99181 |
| 1.198 | 6.200 | 19.20000 | 1.12520 | .14922 | -.15710 | -.08800 | -.01020 | -.01170 | 1.01350 | .51096 | 1.98352 |
| | GRADIENT | -.00501 | .00040 | .00017 | .00023 | -.01429 | -.00134 | -.00152 | .00038 | .00021 | -.00007 |

(RUK097) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 107/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CO | L/D |
|------|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|----------|
| .597 | -4.940 | -.19000 | -.21450 | .07624 | .11130 | .00700 | -.00460 | -.01230 | -.21420 | .07695 | -2.78359 |
| .597 | -3.990 | -.19000 | -.22000 | .07567 | .11270 | .00690 | -.00360 | -.01050 | -.21970 | .07640 | -2.87569 |
| .597 | -3.220 | -.19000 | -.21990 | .07437 | .11440 | .00650 | -.00240 | -.00830 | -.21970 | .07510 | -2.92548 |
| .597 | -2.240 | -.20000 | -.22750 | .07414 | .11500 | .00470 | -.00120 | -.00570 | -.22720 | .07493 | -3.03201 |
| .597 | -1.250 | -.20000 | -.22380 | .07351 | .11590 | -.00120 | -.00080 | -.00360 | -.22350 | .07429 | -3.00845 |
| .597 | -.130 | -.18000 | -.22470 | .07293 | .11590 | -.00020 | .00050 | -.00100 | -.22450 | .07364 | -3.04880 |
| .597 | 1.790 | -.20000 | -.23050 | .07283 | .11480 | -.00160 | .00130 | .00160 | -.23030 | .07363 | -3.12762 |
| .597 | 1.470 | -.19000 | -.22880 | .07272 | .11700 | -.00400 | .00210 | .00380 | -.22850 | .07348 | -3.10976 |
| .597 | 2.290 | -.19000 | -.22420 | .07283 | .11710 | -.00450 | .00300 | .00620 | -.22400 | .07357 | -3.04459 |
| .596 | 3.090 | -.19000 | -.22330 | .07351 | .11510 | -.00530 | .00410 | .00790 | -.22310 | .07425 | -3.00471 |
| .597 | 4.040 | -.19000 | -.21790 | .07393 | .11490 | -.00650 | .00500 | .01020 | -.21770 | .07465 | -2.91619 |
| .597 | 4.770 | -.18000 | -.21650 | .07439 | .11220 | -.00690 | .00570 | .01260 | -.21640 | .07507 | -2.88264 |
| .597 | 5.560 | -.18000 | -.21220 | .07513 | .11130 | -.01090 | .00700 | .01490 | -.21200 | .07580 | -2.79697 |
| .597 | 6.490 | -.18000 | -.20440 | .07565 | .11010 | -.01180 | .00750 | .01720 | -.20410 | .07629 | -2.67526 |
| .596 | 7.240 | -.19000 | -.20970 | .07694 | .10650 | -.01450 | .00820 | .01960 | -.20940 | .07763 | -2.69724 |
| .597 | 7.750 | -.18000 | -.20180 | .07838 | .10330 | -.02280 | .00870 | .02200 | -.20150 | .07901 | -2.55019 |
| .597 | 9.220 | -.18000 | -.19380 | .07898 | .10150 | -.02100 | .01030 | .02460 | -.19360 | .07959 | -2.43251 |
| .597 | 9.830 | -.18000 | -.19940 | .08072 | .10220 | -.02320 | .01080 | .02570 | -.19910 | .08135 | -2.44757 |
| | GRADIENT | .00065 | -.00017 | -.00021 | .00920 | -.00162 | .00104 | .00258 | -.00018 | -.00021 | -.01063 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK097) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25 000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 95/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALLRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .896 | -5.020 | -.07000 | -.20480 | .10071 | .13500 | .02090 | -.00920 | -.01350 | -.20470 | .10096 | -2.02753 |
| .896 | -4.080 | -.06000 | -.20500 | .09993 | .13700 | .02020 | -.00780 | -.01160 | -.20490 | .10014 | -2.04604 |
| .896 | -3.280 | -.07000 | -.20930 | .09961 | .13810 | .01510 | -.00630 | -.00920 | -.20920 | .09987 | -2.09481 |
| .895 | -2.540 | -.07000 | -.20830 | .09926 | .13820 | .01010 | -.00450 | -.00730 | -.20820 | .09951 | -2.09216 |
| .896 | -1.870 | -.05000 | -.20710 | .09847 | .13990 | .00970 | -.00300 | -.00510 | -.20700 | .09869 | -2.09754 |
| .896 | -.960 | -.07000 | -.21140 | .09833 | .13960 | .00440 | -.00120 | -.00300 | -.21130 | .09859 | -2.14326 |
| .896 | -.200 | -.06000 | -.20790 | .09796 | .13940 | .00100 | .00040 | -.00050 | -.20780 | .09818 | -2.11657 |
| .895 | .840 | -.05000 | -.20590 | .09802 | .13930 | -.00480 | .00250 | .00160 | -.20580 | .09824 | -2.09496 |
| .896 | 1.630 | -.07000 | -.20830 | .09817 | .13850 | -.01000 | .00380 | .00420 | -.20820 | .09842 | -2.11533 |
| .896 | 2.540 | -.05000 | -.20500 | .09833 | .13730 | -.01390 | .00560 | .00650 | -.20590 | .09855 | -2.08939 |
| .896 | 3.370 | -.07000 | -.20840 | .09906 | .13620 | -.01680 | .00740 | .00900 | -.20830 | .09931 | -2.09738 |
| .895 | 4.390 | -.07000 | -.20370 | .09934 | .13460 | -.02170 | .00910 | .01130 | -.20360 | .09959 | -2.04441 |
| .896 | 5.010 | -.06000 | -.19890 | .09974 | .13290 | -.02550 | .01070 | .01360 | -.19880 | .09995 | -1.98903 |
| .896 | 5.910 | -.07000 | -.20090 | .10081 | .13130 | -.03170 | .01220 | .01630 | -.20080 | .10106 | -1.98703 |
| .895 | 6.870 | -.07000 | -.19790 | .10138 | .12840 | -.03580 | .01400 | .01880 | -.19780 | .10162 | -1.94643 |
| .896 | 7.480 | -.07000 | -.19540 | .10240 | .12610 | -.04140 | .01610 | .02140 | -.19330 | .10264 | -1.86335 |
| .896 | 8.070 | -.07000 | -.19270 | .10357 | .12340 | -.04490 | .01789 | .02370 | -.19260 | .10381 | -1.85540 |
| .896 | 9.470 | -.07000 | -.18950 | .10494 | .12010 | -.04970 | .01940 | .02610 | -.18940 | .10507 | -1.80258 |
| .896 | 9.950 | -.07000 | -.19000 | .10605 | .12190 | -.05160 | .02020 | .02700 | -.18980 | .10628 | -1.78581 |
| | GRADIENT | -.00034 | .00023 | -.00009 | -.00027 | -.00492 | .00201 | .00271 | .00023 | -.00009 | .00055 |

(RUK098) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BRFF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 200/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.198 | -5.000 | -.15000 | -.14150 | .16620 | .11350 | .02530 | -.00910 | -.01130 | -.14110 | .16657 | -.84709 |
| 1.198 | -4.080 | -.14000 | -.14110 | .16581 | .11360 | .01500 | -.00930 | -.01000 | -.14070 | .16615 | -.84680 |
| 1.198 | -3.080 | -.15000 | -.14380 | .16529 | .11220 | .00950 | -.00660 | -.00760 | -.14340 | .16567 | -.86560 |
| 1.199 | -2.380 | -.15000 | -.14480 | .16534 | .11190 | .00760 | -.00470 | -.00530 | -.14440 | .16572 | -.87136 |
| 1.198 | -1.470 | -.16000 | -.13820 | .16530 | .11260 | .01060 | -.00090 | -.00390 | -.13780 | .16569 | -.83170 |
| 1.198 | -.430 | -.15000 | -.14000 | .16492 | .11160 | .00140 | -.00010 | -.00110 | -.13950 | .16529 | -.84399 |
| 1.199 | .610 | -.15000 | -.14150 | .16493 | .11210 | -.01200 | -.00010 | -.00120 | -.14100 | .16530 | -.85300 |
| 1.199 | 1.480 | -.15000 | -.13800 | .16437 | .11310 | -.00450 | -.00450 | .00320 | -.13760 | .16473 | -.83530 |
| 1.197 | 2.750 | -.15000 | -.14190 | .16440 | .11280 | -.00380 | .01060 | .00550 | -.14150 | .16477 | -.85877 |
| 1.199 | 3.520 | -.15000 | -.14050 | .16491 | .11190 | -.01730 | .00680 | .00750 | -.14000 | .16528 | -.84706 |
| 1.199 | 4.460 | -.14000 | -.13780 | .16455 | .11170 | -.02450 | .01030 | .00900 | -.13740 | .16329 | -.83129 |
| 1.199 | 5.190 | -.16000 | -.14340 | .16547 | .11150 | -.02180 | .01470 | .01130 | -.14300 | .16587 | -.86212 |
| 1.197 | 6.400 | -.14000 | -.13970 | .16617 | .11090 | -.02430 | .01610 | .01380 | -.13920 | .16651 | -.83598 |
| 1.199 | 7.320 | -.15000 | -.13980 | .16684 | .11070 | -.02070 | .01930 | .01570 | -.13930 | .16721 | -.83311 |
| 1.198 | 8.440 | -.15000 | -.14570 | .16885 | .11100 | -.03700 | .01930 | .01850 | -.14520 | .16923 | -.85600 |
| 1.199 | 9.360 | -.16000 | -.14210 | .16925 | .11090 | -.04480 | .01940 | .01990 | -.14160 | .16965 | -.83468 |
| 1.198 | 9.910 | -.15000 | -.14650 | .17113 | .11080 | -.05080 | .01850 | .02070 | -.14600 | .17151 | -.85125 |
| | GRADIENT | .00022 | .00034 | -.00014 | -.00011 | -.00442 | .00229 | .00222 | .00035 | -.00014 | .00137 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK099) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 108/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .595 | 4.680 | 4.72000 | .01940 | .06448 | .10980 | .00970 | -.00470 | -.01210 | .01400 | .06586 | -.21258 |
| .596 | 3.690 | 4.74000 | .01690 | .06336 | .11070 | .00880 | -.00400 | -.01010 | .01160 | .06454 | .17973 |
| .597 | 2.790 | 4.72000 | .01360 | .06291 | .11320 | .00580 | -.00280 | -.00760 | .00830 | .06392 | .13006 |
| .597 | -2.140 | 4.72000 | .00700 | .06266 | .11240 | .00150 | -.00210 | -.00540 | .00180 | .06302 | .02856 |
| .596 | -1.220 | 4.72000 | .00980 | .06184 | .11380 | .00050 | -.00120 | -.00340 | .00470 | .06244 | .07528 |
| .597 | -.490 | 4.68000 | .00650 | .06160 | .11250 | -.00050 | -.00140 | -.00140 | .00140 | .05192 | .02261 |
| .597 | .610 | 4.67000 | .00590 | .06121 | .11400 | -.00110 | .00070 | .00110 | .00090 | .06149 | .01464 |
| .597 | 1.320 | 4.70000 | .00450 | .06177 | .11410 | -.00510 | .00150 | .00320 | -.00050 | .06193 | -.00807 |
| .597 | 2.190 | 4.71000 | .01390 | .06130 | .11490 | -.00620 | .00240 | .00530 | .00880 | .06223 | .14140 |
| .597 | 2.980 | 4.69000 | .00310 | .06257 | .11230 | -.00520 | .00270 | .00770 | -.00190 | .05261 | -.03034 |
| .597 | 4.020 | 4.71000 | .01340 | .06280 | .11190 | -.01020 | .00380 | .01020 | .00820 | .06369 | .12875 |
| .596 | 4.840 | 4.71000 | .01740 | .06348 | .11020 | -.01130 | .00530 | .01290 | .01210 | .06469 | .18703 |
| .597 | 5.820 | 4.71000 | .02210 | .06415 | .10810 | -.01390 | .00590 | .01560 | .01670 | .06575 | .25400 |
| .597 | 6.950 | 4.72000 | .02730 | .06485 | .10560 | -.01630 | .00760 | .01850 | .02190 | .06688 | .32747 |
| .596 | 7.520 | 4.71000 | .02840 | .06635 | .10290 | -.01790 | .00850 | .02090 | .02900 | .06846 | .33451 |
| .598 | 8.070 | 4.72000 | .03520 | .06709 | .09970 | -.02140 | .00910 | .02280 | .02950 | .06976 | .42288 |
| .597 | 9.390 | 4.73000 | .04560 | .06789 | .09880 | -.02370 | .01070 | .02560 | .03980 | .07142 | .55727 |
| .596 | 9.820 | 4.73000 | .03990 | .06938 | .09810 | -.02290 | .01090 | .02610 | .03400 | .07243 | .46939 |
| GRADIENT | | | -.00042 | -.00010 | .00010 | -.00218 | .00102 | .00262 | -.00040 | -.00014 | -.00601 |

RUN NO. 96/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|--------|---------|--------|---------|---------|---------|--------|---------|---------|
| .896 | 4.990 | 4.83000 | .09600 | .09370 | .09770 | .02000 | -.00800 | -.01120 | .08770 | .10145 | .86446 |
| .896 | 3.990 | 4.84000 | .10120 | .09261 | .09920 | .01620 | -.00730 | -.00950 | .09310 | .10082 | .92344 |
| .895 | -3.200 | 4.83000 | .09770 | .09207 | .09770 | .01230 | -.00560 | -.00750 | .08960 | .09997 | .89627 |
| .896 | -2.430 | 4.84000 | .10250 | .09197 | .10010 | .01020 | -.00390 | -.00570 | .09430 | .10029 | .94027 |
| .896 | -1.400 | 4.84000 | .09970 | .09150 | .10090 | .00660 | -.00270 | -.00320 | .09160 | .09959 | .91981 |
| .895 | -.700 | 4.85000 | .10250 | .09079 | .10300 | .00380 | -.00080 | -.00140 | .09440 | .09913 | .95227 |
| .895 | .280 | 4.85000 | .10240 | .09064 | .10200 | -.00100 | .00040 | .00020 | .09440 | .09897 | .95379 |
| .896 | 1.090 | 4.84000 | .09990 | .09112 | .10160 | -.00520 | .00190 | .00250 | .09180 | .09922 | .92518 |
| .896 | 2.170 | 4.84000 | .10100 | .09124 | .09990 | -.01080 | .00390 | .00490 | .09290 | .09944 | .93427 |
| .896 | 3.070 | 4.85000 | .10140 | .09134 | .09910 | -.01580 | .00520 | .00680 | .09330 | .09959 | .93688 |
| .896 | 4.260 | 4.84000 | .10280 | .09190 | .09800 | -.01960 | .00730 | .00910 | .09470 | .10025 | .94468 |
| .896 | 5.230 | 4.85000 | .10890 | .09178 | .09690 | -.02400 | .00900 | .01160 | .10060 | .10066 | 1.00140 |
| .896 | 6.180 | 4.84000 | .10770 | .09248 | .09500 | -.02830 | .01040 | .01330 | .09950 | .10124 | .98284 |
| .896 | 6.990 | 4.85000 | .10980 | .09293 | .09470 | -.03130 | .01180 | .01500 | .10160 | .10189 | .97725 |
| .895 | 7.520 | 4.84000 | .10780 | .09325 | .09330 | -.03350 | .01330 | .01670 | .10290 | .10201 | .97537 |
| .895 | 8.020 | 4.84000 | .11130 | .09415 | .09280 | -.03750 | .01460 | .01890 | .10290 | .10321 | .99704 |
| .895 | 10.010 | 4.86000 | .10540 | .09633 | .09010 | -.04550 | .01660 | .02170 | .09690 | .10491 | .92362 |
| GRADIENT | | | .00042 | -.00018 | .00004 | -.00437 | .00171 | .00225 | .00043 | -.00015 | .00566 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (RUK1001 (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 201/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALLRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|--------|---------|--------|---------|---------|---------|--------|---------|--------|
| 1.199 | -4.960 | 4.53000 | .14690 | .5995 | .05080 | .02100 | -.00930 | -.01130 | .13380 | .17105 | .78222 |
| 1.199 | -4.350 | 4.53000 | .14740 | .16005 | .05090 | .01700 | -.00850 | -.01080 | .13430 | .17119 | .78450 |
| 1.199 | -3.770 | 4.53000 | .14820 | .15825 | .05000 | .01630 | -.00640 | -.00940 | .13520 | .17046 | .79316 |
| 1.199 | -2.720 | 4.52000 | .14530 | .15948 | .05100 | .00770 | -.00610 | -.00750 | .13220 | .17043 | .77566 |
| 1.198 | -2.130 | 4.52000 | .14690 | .15992 | .05050 | .00680 | -.00410 | -.00570 | .13380 | .17100 | .78246 |
| 1.199 | -1.150 | 4.54000 | .14990 | .15971 | .05070 | .01060 | -.00240 | -.00320 | .13680 | .17107 | .79965 |
| 1.199 | -1.130 | 4.54000 | .15040 | .15992 | .05210 | .00210 | -.00070 | -.00040 | .13720 | .17132 | .80083 |
| 1.197 | 1.100 | 4.54000 | .15270 | .15947 | .05310 | -.00630 | .00140 | .00180 | .13960 | .17106 | .81610 |
| 1.198 | 2.020 | 4.57000 | .15120 | .15924 | .05230 | -.00750 | .00450 | .00470 | .13800 | .17078 | .80805 |
| 1.200 | 2.850 | 4.53000 | .14880 | .15909 | .05230 | -.01170 | .00510 | .00650 | .13570 | .17035 | .79662 |
| 1.198 | 3.760 | 4.53000 | .14660 | .15914 | .05370 | -.01460 | .00770 | .00840 | .13360 | .17022 | .78486 |
| 1.198 | 4.710 | 4.53000 | .14530 | .15946 | .05300 | -.01980 | .00850 | .01020 | .13220 | .17044 | .77565 |
| 1.199 | 5.610 | 4.53000 | .14890 | .16008 | .05350 | -.02020 | .01170 | .01180 | .13580 | .17134 | .79258 |
| 1.198 | 6.310 | 4.53000 | .14970 | .16110 | .05260 | -.02850 | .01300 | .01290 | .13640 | .17242 | .79109 |
| 1.199 | 6.990 | 4.53000 | .15050 | .16176 | .05180 | -.03520 | .01400 | .01450 | .13720 | .17314 | .79242 |
| 1.199 | 7.960 | 4.53000 | .14770 | .16237 | .05170 | -.03710 | .01630 | .01600 | .13440 | .17353 | .77451 |
| 1.198 | 8.580 | 4.55000 | .15360 | .16307 | .05080 | -.03900 | .01700 | .01720 | .14020 | .17474 | .80233 |
| 1.198 | 10.020 | 4.52000 | .14270 | .16311 | .05070 | -.04080 | .02060 | .01930 | .12930 | .17584 | .73532 |
| | GRADIENT | .00124 | .00010 | -.00007 | .00032 | -.00406 | .00190 | .00234 | .00010 | -.00005 | .00083 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK101) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 109/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .597 | -4.710 | 9.84000 | .26600 | .03562 | .10900 | .01240 | -.00610 | -.01370 | .25600 | .08055 | 3.17796 |
| .596 | -3.740 | 9.83000 | .26180 | .03447 | .11160 | .00980 | -.00470 | -.01150 | .25210 | .07866 | 3.20494 |
| .597 | -2.640 | 9.90000 | .26310 | .03317 | .11460 | .00900 | -.00310 | -.00910 | .25350 | .07791 | 3.25373 |
| .597 | -1.970 | 9.86000 | .25780 | .03306 | .11560 | .00790 | -.00210 | -.00670 | .24830 | .07672 | 3.23654 |
| .597 | -1.060 | 9.89000 | .25890 | .03220 | .11660 | .00360 | -.00120 | -.00460 | .24950 | .07619 | 3.27473 |
| .597 | -.310 | 9.96000 | .25790 | .03204 | .11680 | .00200 | -.00070 | -.00180 | .24850 | .07616 | 3.26271 |
| .597 | .670 | 9.88000 | .25870 | .03188 | .11770 | .00150 | -.00050 | .00090 | .24940 | .07580 | 3.29040 |
| .597 | 1.550 | 9.80000 | .25370 | .03216 | .11590 | -.00210 | .00150 | .00360 | .24440 | .07521 | 3.24939 |
| .597 | 2.390 | 9.85000 | .25260 | .03301 | .11470 | -.00590 | .00220 | .00610 | .24320 | .07574 | 3.21117 |
| .597 | 3.160 | 9.84000 | .25750 | .03311 | .11460 | -.00610 | .00310 | .00900 | .24800 | .07663 | 3.23637 |
| .597 | 4.180 | 9.85000 | .26400 | .03294 | .11280 | -.00960 | .00400 | .01110 | .25450 | .07762 | 3.27893 |
| .596 | 4.870 | 9.86000 | .26600 | .03425 | .11020 | -.01460 | .00470 | .01420 | .25620 | .07929 | 3.23100 |
| .596 | 5.950 | 9.85000 | .27130 | .03512 | .10730 | -.01640 | .00620 | .01720 | .26130 | .08101 | 3.22539 |
| .597 | 6.950 | 9.85000 | .27620 | .03530 | .10600 | -.01590 | .00770 | .01980 | .26590 | .08301 | 3.20306 |
| .597 | 7.700 | 9.87000 | .28720 | .03691 | .10280 | -.02130 | .00910 | .02260 | .27660 | .08559 | 3.23155 |
| .597 | 8.660 | 9.91000 | .29610 | .03750 | .09990 | -.02330 | .01060 | .02510 | .28520 | .08790 | 3.24461 |
| .597 | 9.570 | 9.85000 | .29250 | .03953 | .09700 | -.02680 | .01160 | .02750 | .28140 | .08899 | 3.16233 |
| .596 | 9.990 | 9.88000 | .29860 | .03949 | .09800 | -.02610 | .01190 | .02780 | .28740 | .09014 | 3.18838 |
| | GRADIENT | -.00065 | -.00025 | -.00013 | .00009 | -.00267 | .00110 | .00293 | -.00023 | -.00017 | .00401 |

RUN NO. 97/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|---------|
| .896 | -4.990 | 9.88000 | .38100 | .08700 | .07950 | .01750 | -.00720 | -.00570 | .36050 | .15108 | 2.38609 |
| .896 | -3.880 | 9.89000 | .37990 | .08712 | .08040 | .01340 | -.00500 | -.00490 | .35930 | .15101 | 2.37926 |
| .896 | -2.920 | 9.88000 | .37800 | .08676 | .08190 | .01010 | -.00460 | -.00360 | .35750 | .15033 | 2.37806 |
| .896 | -2.020 | 9.86000 | .37570 | .08643 | .08340 | .00620 | -.00310 | -.00230 | .35530 | .14961 | 2.37480 |
| .896 | -.920 | 9.88000 | .37270 | .08653 | .08360 | .00040 | -.00180 | -.00120 | .35230 | .14920 | 2.36132 |
| .896 | -.050 | 9.89000 | .37400 | .08648 | .08340 | -.00240 | -.00070 | -.00030 | .35360 | .14943 | 2.36629 |
| .896 | .850 | 9.87000 | .36980 | .08641 | .08260 | -.00440 | .00060 | .00080 | .34950 | .14862 | 2.35322 |
| .895 | 1.620 | 9.87000 | .37240 | .08671 | .08300 | -.00950 | .00170 | .00170 | .35200 | .14926 | 2.35829 |
| .895 | 2.410 | 9.87000 | .37360 | .08638 | .08210 | -.01190 | .00280 | .00250 | .35320 | .14914 | 2.36822 |
| .895 | 3.420 | 9.89000 | .37980 | .08664 | .08170 | -.01590 | .00420 | .00350 | .35930 | .15052 | 2.38701 |
| .995 | 4.330 | 9.80000 | .38000 | .08592 | .08020 | -.01800 | .00570 | .00420 | .35360 | .14985 | 2.39976 |
| .896 | 5.000 | 9.88000 | .38300 | .08638 | .07910 | -.02070 | .00670 | .00530 | .36250 | .15082 | 2.40359 |
| .896 | 5.950 | 9.88000 | .38420 | .08657 | .07700 | -.02290 | .00810 | .00660 | .36360 | .15121 | 2.40462 |
| .896 | 7.130 | 9.89000 | .38930 | .08699 | .07250 | -.02780 | .00960 | .00790 | .36860 | .15256 | 2.41606 |
| .896 | 7.680 | 9.88000 | .38950 | .08704 | .07170 | -.03010 | .01100 | .00950 | .36880 | .15258 | 2.41707 |
| .896 | 8.970 | 9.86000 | .39440 | .08798 | .06840 | -.03500 | .01220 | .01080 | .37340 | .15435 | 2.41920 |
| .897 | 9.920 | 9.89000 | .39400 | .09316 | .06880 | -.03840 | .01360 | .01240 | .37280 | .15551 | 2.39731 |
| | GRADIENT | -.00038 | .00004 | -.00007 | -.00005 | -.00388 | .00139 | .00110 | .00005 | -.00007 | .00135 |

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.000 ELEVON = -10.000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 202/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CO | L/D |
|-------|----------|---------|--------|---------|--------|---------|---------|---------|--------|--------|---------|
| 1.198 | -4.750 | 9.45000 | .43310 | .15047 | .01060 | .00990 | -.00850 | -.01010 | .40250 | .21954 | 1.83340 |
| 1.199 | -3.950 | 9.45000 | .43190 | .14965 | .01240 | .01220 | -.00580 | -.00800 | .40140 | .21853 | 1.83681 |
| 1.197 | -2.890 | 9.43000 | .43230 | .14926 | .01240 | .01460 | -.00290 | -.00660 | .40200 | .21807 | 1.84343 |
| 1.197 | -1.900 | 9.39000 | .42790 | .14942 | .01150 | .00390 | -.00350 | -.00420 | .39780 | .21723 | 1.83123 |
| 1.198 | -.990 | 9.42000 | .42500 | .14958 | .01260 | .00520 | -.00110 | -.00200 | .39480 | .21712 | 1.81833 |
| 1.199 | .070 | 9.46000 | .43500 | .14827 | .01360 | -.00270 | .00000 | .00010 | .40470 | .21775 | 1.85856 |
| 1.197 | 1.280 | 9.46000 | .43730 | .14856 | .01330 | .00300 | .00280 | .00170 | .40690 | .21841 | 1.86298 |
| 1.199 | 1.960 | 9.46000 | .43390 | .14865 | .01440 | -.01050 | .00230 | .00370 | .40360 | .21794 | 1.85185 |
| 1.196 | 2.780 | 9.46000 | .43500 | .14919 | .01470 | -.00670 | .00540 | .00520 | .40450 | .21866 | 1.85038 |
| 1.199 | 3.620 | 9.46000 | .43370 | .14934 | .01300 | -.00560 | .00620 | .00670 | .40320 | .21859 | 1.84454 |
| 1.197 | 4.480 | 9.45000 | .43240 | .15007 | .01360 | -.01620 | .00630 | .00850 | .40180 | .21903 | 1.83447 |
| 1.197 | 5.340 | 9.46000 | .43620 | .14999 | .01300 | -.02500 | .00640 | .01000 | .40560 | .21964 | 1.84663 |
| 1.199 | 6.180 | 9.45000 | .43160 | .15058 | .01230 | -.01730 | .00930 | .01210 | .40190 | .21940 | 1.82772 |
| 1.197 | 6.890 | 9.46000 | .43950 | .15143 | .01210 | -.02320 | .01090 | .01290 | .40860 | .22161 | 1.84381 |
| 1.198 | 7.910 | 9.44000 | .42660 | .15315 | .01130 | -.02190 | .01390 | .01450 | .39570 | .22104 | 1.79014 |
| 1.198 | 8.650 | 9.46000 | .42820 | .15409 | .01220 | -.03090 | .01420 | .01620 | .39710 | .22237 | 1.78574 |
| 1.197 | 9.690 | 9.46000 | .43540 | .15557 | .01200 | -.03120 | .01560 | .01730 | .40390 | .22502 | 1.79498 |
| 1.198 | 10.050 | 9.45000 | .43340 | .15609 | .01010 | -.03050 | .01670 | .01790 | .40180 | .22513 | 1.78474 |
| | GRADIENT | .00305 | .00037 | -.00006 | .00030 | -.00285 | .00157 | .00200 | .00036 | .00002 | .00151 |

DATE 01 MAR 77

TABLATED SOURCE DATA, CALSPAN 118-103 (LA70)

PAGE 125

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK103) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 BETA =
 GRIT =
 RUDDER =

4.500 ELEVON = -10.000
 .000 ALPHA = 15.000
 1.000 SPOBRK = 25.000
 .000 BOFLAP = .000

RUN NO. 110/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|---------|---------|---------|---------|---------|--------|---------|---------|
| .597 | -4.710 | 14.36000 | .51290 | .01461 | .11160 | .01390 | -.00450 | -.01640 | .49320 | .14136 | 3.48897 |
| .596 | -3.720 | 14.34000 | .51130 | .01371 | .11250 | .01150 | -.00350 | -.01320 | .49190 | .13992 | 3.51560 |
| .596 | -2.440 | 14.38000 | .50820 | .01241 | .11500 | .00620 | -.00220 | -.00940 | .48910 | .13823 | 3.53821 |
| .597 | -1.650 | 14.35000 | .50250 | .01228 | .11560 | .00390 | -.00090 | -.00700 | .48380 | .13644 | 3.54591 |
| .597 | -.870 | 14.34000 | .50560 | .01204 | .11500 | .00060 | -.00040 | -.00380 | .48690 | .13689 | 3.55688 |
| .596 | -.020 | 14.30000 | .49280 | .01202 | .11480 | -.00390 | .00080 | -.00140 | .47460 | .13337 | 3.55856 |
| .597 | .860 | 14.31000 | .50590 | .01194 | .11280 | -.00490 | .00170 | .00140 | .48720 | .13661 | 3.56631 |
| .597 | 1.790 | 14.31000 | .49960 | .01230 | .11390 | -.00870 | .00280 | .00450 | .48100 | .13540 | 3.56234 |
| .596 | 2.810 | 14.32000 | .50510 | .01214 | .11330 | -.01220 | .00420 | .00780 | .48640 | .13669 | 3.55834 |
| .597 | 3.840 | 14.33000 | .51460 | .01260 | .11180 | -.01400 | .00520 | .01120 | .49550 | .13957 | 3.55007 |
| .597 | 4.700 | 14.33000 | .51800 | .01308 | .10930 | -.01630 | .00630 | .01410 | .49860 | .14088 | 3.53915 |
| .597 | 5.610 | 14.32000 | .52180 | .01360 | .10730 | -.01680 | .00750 | .01730 | .50220 | .14224 | 3.53070 |
| .597 | 7.000 | 14.33000 | .52340 | .01510 | .10290 | -.02290 | .00880 | .02130 | .50340 | .14418 | 3.49159 |
| .597 | 7.640 | 14.33000 | .52880 | .01625 | .10050 | -.02510 | .00960 | .02380 | .50830 | .14663 | 3.46665 |
| .596 | 8.470 | 14.34000 | .52840 | .01777 | .09960 | -.03070 | .01040 | .02560 | .50750 | .14809 | 3.42702 |
| .597 | 9.940 | 14.32000 | .52840 | .01978 | .09700 | -.03040 | .01170 | .02800 | .50710 | .14986 | 3.38386 |
| | GRADIENT | -.00451 | .00025 | -.00013 | -.00024 | -.00333 | .00116 | .00324 | .00029 | -.00010 | .00046 |

RUN NO. 98/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|---------|---------|---------|---------|---------|--------|---------|---------|
| .895 | -4.930 | 14.59000 | .62060 | .08930 | .06960 | .01180 | -.00750 | -.00540 | .57800 | .24275 | 2.38105 |
| .897 | -3.940 | 14.59000 | .61910 | .08958 | .06890 | .01010 | -.00670 | -.00470 | .57650 | .24264 | 2.37592 |
| .895 | -3.170 | 14.58000 | .61250 | .09010 | .07100 | .00730 | -.00540 | -.00360 | .57030 | .24033 | 2.37300 |
| .896 | -2.390 | 14.57000 | .61070 | .08897 | .07200 | .00340 | -.00420 | -.00260 | .56860 | .23974 | 2.37175 |
| .895 | -1.560 | 14.57000 | .61070 | .08875 | .07260 | .00110 | -.00300 | -.00170 | .56870 | .23953 | 2.37428 |
| .897 | -.700 | 14.58000 | .61410 | .08852 | .07320 | .00010 | -.00120 | -.00100 | .57200 | .24026 | 2.38078 |
| .895 | .370 | 14.58000 | .60730 | .08843 | .07270 | -.00300 | .00000 | .00040 | .56550 | .23846 | 2.37148 |
| .895 | 1.040 | 14.58000 | .60880 | .08806 | .07330 | -.00510 | .00090 | .00110 | .56690 | .23848 | 2.37715 |
| .895 | 1.890 | 14.58000 | .61510 | .08850 | .07300 | -.00790 | .00210 | .00180 | .57500 | .24049 | 2.36263 |
| .895 | 2.840 | 14.58000 | .61140 | .08798 | .07220 | -.00650 | .00370 | .00260 | .56950 | .23906 | 2.38229 |
| .897 | 4.020 | 14.58000 | .61940 | .08854 | .06910 | -.01380 | .00490 | .00390 | .57710 | .24171 | 2.38759 |
| .895 | 4.760 | 14.59000 | .62170 | .08806 | .06740 | -.01530 | .00650 | .00470 | .57940 | .24183 | 2.39593 |
| .895 | 5.810 | 14.60000 | .62680 | .08877 | .06380 | -.02050 | .00780 | .00580 | .58420 | .24390 | 2.39524 |
| .896 | 7.020 | 14.59000 | .63580 | .08235 | .06070 | -.02500 | .00930 | .00680 | .59300 | .24566 | 2.41391 |
| .896 | 7.570 | 14.62000 | .64110 | .08870 | .05830 | -.02250 | .01020 | .00770 | .59790 | .24765 | 2.41433 |
| .896 | 8.060 | 14.62000 | .64260 | .08843 | .05320 | -.02520 | .01090 | .00800 | .59940 | .24776 | 2.41924 |
| .896 | 9.310 | 14.62000 | .64740 | .08824 | .04930 | -.02600 | .01170 | .00880 | .59410 | .24879 | 2.42814 |
| .896 | 9.960 | 14.62000 | .65270 | .08841 | .04880 | -.02680 | .01200 | .00920 | .60920 | .25029 | 2.43394 |
| | GRADIENT | -.00000 | .00010 | -.00013 | -.00005 | -.00280 | .00146 | .00105 | .00013 | -.00010 | .00156 |

(RUK104) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 203/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|--------|---------|---------|---------|---------|---------|---------|---------|
| 1.198 | -4.960 | 14.35000 | .71020 | .14326 | -.01390 | .00180 | -.00550 | -.00830 | .65250 | .31481 | 2.07268 |
| 1.197 | -4.240 | 14.35000 | .71180 | .14290 | -.01450 | .00190 | -.00570 | -.00770 | .65410 | .31486 | 2.07745 |
| 1.198 | -3.630 | 14.34000 | .70620 | .14330 | -.01360 | .00800 | -.00320 | -.00600 | .64870 | .31374 | 2.06761 |
| 1.197 | -2.750 | 14.34000 | .70840 | .14303 | -.01270 | .00740 | -.00160 | -.00490 | .65080 | .31403 | 2.07243 |
| 1.197 | -2.100 | 14.34000 | .70780 | .14289 | -.01430 | .00550 | -.00100 | -.00410 | .65030 | .31374 | 2.07272 |
| 1.199 | -1.250 | 14.35000 | .71040 | .14236 | -.01400 | -.00140 | -.00100 | -.00280 | .65290 | .31399 | 2.07938 |
| 1.198 | -.480 | 14.35000 | .70730 | .14260 | -.01180 | -.00640 | -.00130 | -.00120 | .64990 | .31345 | 2.07337 |
| 1.198 | .440 | 14.34000 | .70520 | .14260 | -.01310 | -.00320 | .00150 | .00000 | .64790 | .31282 | 2.07117 |
| 1.198 | 1.260 | 14.34000 | .70500 | .14266 | -.01320 | -.00950 | .00030 | .00150 | .64770 | .31283 | 2.07048 |
| 1.197 | 1.810 | 14.34000 | .70460 | .14303 | -.01210 | -.00530 | .00300 | .00280 | .64720 | .31309 | 2.06717 |
| 1.198 | 2.900 | 14.34000 | .70910 | .14330 | -.01360 | -.00710 | .00360 | .00410 | .65150 | .31446 | 2.07179 |
| 1.198 | 3.880 | 14.34000 | .70750 | .14359 | -.01330 | -.01870 | .00250 | .00560 | .64990 | .31435 | 2.06746 |
| 1.197 | 4.840 | 14.34000 | .70450 | .14371 | -.01230 | -.01370 | .00490 | .00740 | .64700 | .31372 | 2.06235 |
| 1.198 | 5.720 | 14.33000 | .70190 | .14394 | -.01460 | -.02100 | .00460 | .00880 | .64440 | .31319 | 2.05756 |
| 1.198 | 6.160 | 14.34000 | .70430 | .14449 | -.01350 | -.01850 | .00620 | .00930 | .64650 | .31443 | 2.05613 |
| 1.198 | 7.010 | 14.33000 | .70220 | .14476 | -.01450 | -.01720 | .00710 | .01040 | .64440 | .31405 | 2.05187 |
| 1.199 | 8.050 | 14.33000 | .70460 | .14575 | -.01470 | -.02410 | .00750 | .01230 | .64660 | .31561 | 2.04874 |
| 1.197 | 8.670 | 14.35000 | .71250 | .14583 | -.01470 | -.01620 | .00930 | .01280 | .65410 | .31787 | 2.05776 |
| 1.198 | 9.640 | 14.33000 | .70460 | .14700 | -.01700 | -.02100 | .00950 | .01470 | .64630 | .31682 | 2.03996 |
| | GRADIENT | -.00080 | -.00044 | .00004 | .00014 | -.00224 | .00100 | .00161 | -.00042 | -.00007 | -.00085 |

DATE 01 MAR 77

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK105) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 111/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|---------|--------|---------|---------|---------|--------|---------|---------|
| .597 | -4.750 | 19.05000 | .79440 | .01912 | .09000 | .01680 | -.00540 | -.01580 | .74460 | .27736 | 2.68460 |
| .597 | -3.270 | 19.05000 | .79460 | .01832 | .08970 | .01320 | -.00470 | -.01340 | .74510 | .27667 | 2.69311 |
| .597 | -2.870 | 19.05000 | .79790 | .01685 | .09050 | .00990 | -.00330 | -.01030 | .74860 | .27649 | 2.70754 |
| .597 | -1.950 | 19.05000 | .79640 | .01699 | .08960 | .00730 | -.00240 | -.00720 | .74720 | .27613 | 2.70598 |
| .597 | -.880 | 19.05000 | .79530 | .01668 | .08980 | .00350 | -.00160 | -.00290 | .74630 | .27548 | 2.70912 |
| .597 | .420 | 19.05000 | .79290 | .01580 | .08930 | -.00060 | -.00020 | -.00150 | .74430 | .27373 | 2.71908 |
| .597 | 1.270 | 19.01000 | .79350 | .01580 | .09070 | -.00080 | .00150 | .00470 | .74510 | .27341 | 2.72524 |
| .597 | 2.560 | 19.04000 | .79480 | .01608 | .09110 | -.00640 | .00230 | .00850 | .74600 | .27449 | 2.71780 |
| .597 | 3.740 | 19.05000 | .79670 | .01615 | .09060 | -.01020 | .00370 | .01250 | .74780 | .27530 | 2.71628 |
| .597 | 4.450 | 19.05000 | .79650 | .01753 | .08930 | -.00880 | .00470 | .01410 | .74710 | .27654 | 2.70158 |
| .597 | 5.060 | 19.03000 | .78570 | .01883 | .08800 | -.01380 | .00510 | .01750 | .73660 | .27399 | 2.68843 |
| .596 | 5.930 | 19.05000 | .80200 | .01816 | .08750 | -.01380 | .00600 | .01960 | .75220 | .27893 | 2.69671 |
| .597 | 6.660 | 19.04000 | .79660 | .01961 | .08790 | -.01700 | .00690 | .02230 | .74660 | .27841 | 2.68165 |
| .596 | 7.450 | 19.05000 | .80320 | .02014 | .08810 | -.02120 | .00750 | .02520 | .75270 | .28120 | 2.67678 |
| .597 | 8.010 | 19.05000 | .80410 | .02186 | .08540 | -.02120 | .00860 | .02700 | .75290 | .28312 | 2.65934 |
| .597 | 9.140 | 19.04000 | .79440 | .02340 | .08420 | -.02640 | .00980 | .02960 | .74330 | .28128 | 2.64261 |
| .597 | 9.840 | 19.05000 | .81920 | .02317 | .08400 | -.02610 | .01050 | .03120 | .76670 | .28942 | 2.64913 |
| | GRADIENT | -.00150 | .00004 | -.00021 | .00004 | -.00291 | .00110 | .06337 | .00011 | -.00021 | .00247 |

RUN NO. 99/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|---------|---------|---------|---------|---------|--------|---------|---------|
| .896 | -4.980 | 19.48000 | .85090 | .09093 | .06960 | .00160 | -.00340 | -.00560 | .77180 | .36948 | 2.08887 |
| .896 | -3.270 | 19.50000 | .85330 | .09007 | .07330 | -.00220 | -.00210 | -.00370 | .77420 | .36974 | 2.09390 |
| .896 | -2.480 | 19.49000 | .84850 | .09015 | .07400 | -.00130 | -.00120 | -.00280 | .76980 | .36808 | 2.09139 |
| .895 | -1.740 | 19.49000 | .84870 | .08988 | .07630 | -.00280 | -.00030 | -.00200 | .77000 | .36789 | 2.09301 |
| .896 | -.880 | 19.48000 | .84200 | .08961 | .07580 | -.00290 | .00000 | -.00060 | .76380 | .36527 | 2.09106 |
| .896 | .220 | 19.48000 | .84350 | .08943 | .07580 | -.00490 | .00080 | .00380 | .76530 | .36560 | 2.09328 |
| .895 | .910 | 19.48000 | .84270 | .08931 | .07560 | -.00610 | .00160 | .00200 | .76460 | .36522 | 2.09354 |
| .895 | 1.780 | 19.49000 | .84530 | .08955 | .07470 | -.00590 | .00210 | .00300 | .76700 | .36645 | 2.09307 |
| .897 | 2.550 | 19.48000 | .84440 | .08944 | .07330 | -.00720 | .00360 | .00430 | .76620 | .36591 | 2.09396 |
| .896 | 3.740 | 19.50000 | .85690 | .08922 | .07300 | -.00710 | .00420 | .00550 | .77790 | .37014 | 2.10163 |
| .896 | 4.660 | 19.48000 | .85660 | .08959 | .06850 | -.01050 | .00420 | .00710 | .77770 | .37012 | 2.10122 |
| .896 | 5.550 | 19.49000 | .85910 | .08936 | .06550 | -.01040 | .00510 | .00810 | .77980 | .37134 | 2.09994 |
| .896 | 6.790 | 19.50000 | .86600 | .09062 | .06230 | -.01240 | .00620 | .01000 | .78610 | .37450 | 2.09907 |
| .896 | 7.320 | 19.50000 | .86500 | .09101 | .06250 | -.01340 | .00670 | .01080 | .78490 | .37453 | 2.09568 |
| .896 | 7.870 | 19.49000 | .86700 | .09203 | .05890 | -.01550 | .00750 | .01190 | .78740 | .37632 | 2.09234 |
| .896 | 8.360 | 19.48000 | .87000 | .09261 | .05570 | -.01790 | .00790 | .01310 | .78930 | .37743 | 2.09122 |
| .895 | 9.480 | 19.49000 | .87420 | .09278 | .05310 | -.01880 | .00890 | .01470 | .79310 | .37913 | 2.09187 |
| .896 | 9.990 | 19.50000 | .88030 | .09310 | .05070 | -.01900 | .00930 | .01540 | .79870 | .38161 | 2.09297 |
| | GRADIENT | -.00020 | .00026 | -.00013 | -.00010 | -.00107 | .00079 | .00133 | .00030 | -.00004 | .00105 |

PARAMETRIC DATA

(RUK1061 (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| 1.199 | -4.630 | 19.02000 | .94750 | .13703 | -.03180 | .00150 | -.00410 | -.00890 | .85110 | .43834 | 1.94166 |
| 1.198 | -3.830 | 18.98000 | .94240 | .13669 | -.03100 | .00750 | -.00230 | -.00740 | .84660 | .43591 | 1.94214 |
| 1.198 | -2.760 | 18.98000 | .94040 | .13596 | -.03090 | .00330 | -.00180 | -.00570 | .84490 | .43457 | 1.94422 |
| 1.198 | -1.970 | 18.98000 | .93820 | .13555 | -.02960 | -.00130 | -.00250 | -.00450 | .84300 | .43332 | 1.94545 |
| 1.198 | -1.200 | 18.98000 | .94390 | .13516 | -.03050 | -.00150 | -.00130 | -.00290 | .84850 | .43495 | 1.95079 |
| 1.198 | -.360 | 18.98000 | .94350 | .13484 | -.02950 | .00500 | .00050 | -.00180 | .84820 | .43452 | 1.95204 |
| 1.198 | .330 | 18.98000 | .94210 | .13520 | -.03010 | .00000 | .00000 | -.00010 | .84680 | .43440 | 1.94934 |
| 1.198 | 1.260 | 18.98000 | .93970 | .13551 | -.03000 | -.00490 | .00050 | .00110 | .84450 | .43392 | 1.94623 |
| 1.198 | 1.870 | 18.98000 | .94010 | .13651 | -.03110 | -.00590 | .00110 | .00250 | .84450 | .43484 | 1.94207 |
| 1.198 | 2.710 | 18.98000 | .93980 | .13695 | -.02840 | -.01060 | .00050 | .00370 | .84400 | .43531 | 1.93885 |
| 1.198 | 3.600 | 19.00000 | .94530 | .13725 | -.02850 | -.00410 | .00260 | .00520 | .84910 | .43753 | 1.94066 |
| 1.197 | 4.400 | 19.00000 | .94530 | .13774 | -.02870 | -.00820 | .00210 | .00650 | .84890 | .43800 | 1.93815 |
| 1.198 | 5.280 | 18.99000 | .94390 | .13840 | -.03040 | -.00400 | .00390 | .00760 | .84740 | .43802 | 1.93463 |
| 1.198 | 6.290 | 19.00000 | .94730 | .13885 | -.02980 | -.00500 | .00440 | .00920 | .85050 | .43970 | 1.93429 |
| 1.197 | 7.310 | 18.99000 | .94640 | .14017 | -.03110 | -.01330 | .00460 | .01080 | .84920 | .44050 | 1.92780 |
| 1.198 | 8.310 | 18.98000 | .94240 | .14103 | -.03260 | -.01680 | .00450 | .01220 | .84520 | .44001 | 1.92085 |
| 1.199 | 9.050 | 18.99000 | .94620 | .14229 | -.03310 | -.01390 | .00600 | .01370 | .84830 | .44244 | 1.91731 |
| 1.198 | 9.600 | 18.99000 | .94960 | .14274 | -.03550 | -.01450 | .00590 | .01440 | .85140 | .44397 | 1.91768 |
| 1.198 | 10.060 | 19.00000 | .95510 | .14291 | -.03700 | -.01260 | .00580 | .01500 | .85750 | .44640 | 1.92092 |
| GRADIENT | | | -.00004 | .00011 | .00029 | -.00150 | .00065 | .00171 | -.00007 | .00008 | -.00050 |

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK107) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 112/ 0 RN/L = 4.44 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALLRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .597 | -4.840 | -1.2000 | -.05580 | .06581 | .03520 | .01850 | -.00320 | -.01940 | -.05560 | .06593 | -.84336 |
| .596 | -3.950 | -1.3000 | -.06060 | .06354 | .03410 | .01200 | -.00260 | -.01550 | -.06040 | .06568 | -.91965 |
| .597 | -3.020 | -1.2000 | -.05380 | .06481 | .03470 | .01030 | -.00210 | -.01240 | -.05360 | .06492 | -.82560 |
| .597 | -2.300 | -1.3000 | -.06130 | .06462 | .03420 | .00600 | -.00160 | -.00910 | -.06110 | .06476 | -.94350 |
| .597 | -1.150 | -1.3000 | -.05950 | .06445 | .03260 | .00500 | -.00080 | -.00540 | -.05930 | .06458 | -.91817 |
| .597 | .060 | -0.6000 | -.05400 | .06374 | .03510 | .00160 | .00040 | -.00090 | -.05390 | .06380 | -.84487 |
| .597 | 1.080 | -.09000 | -.05210 | .06417 | .03360 | -.00150 | .00110 | .00260 | -.05200 | .06425 | -.80932 |
| .597 | 2.280 | -1.2000 | -.05440 | .06434 | .03370 | -.00630 | .00160 | .00660 | -.05420 | .06445 | -.84091 |
| .597 | 3.190 | -1.2000 | -.04890 | .06480 | .03330 | -.00620 | .00290 | .00660 | -.04870 | .06490 | -.75036 |
| .596 | 4.010 | -1.2000 | -.05300 | .06504 | .03210 | -.00920 | .00340 | .01350 | -.05280 | .06515 | -.81043 |
| .596 | 4.980 | -1.0000 | -.05820 | .06576 | .03130 | -.01460 | .00420 | .01640 | -.05810 | .06586 | -.88215 |
| .596 | 5.390 | -.09000 | -.04960 | .06602 | .03360 | -.01510 | .00540 | .01840 | -.04950 | .06610 | -.74889 |
| .597 | 6.180 | -.09000 | -.05200 | .06712 | .03130 | -.01680 | .00540 | .02130 | -.05190 | .06720 | -.77230 |
| .597 | 6.950 | -1.0000 | -.05630 | .06825 | .03170 | -.01720 | .00630 | .02460 | -.05620 | .06835 | -.82226 |
| .597 | 7.910 | -.04000 | -.04480 | .06928 | .03180 | -.02180 | .00680 | .02770 | -.04480 | .06931 | -.64636 |
| .597 | 8.670 | -.05000 | -.04890 | .07045 | .03110 | -.02420 | .00760 | .03090 | -.04880 | .07049 | -.69227 |
| .597 | 9.660 | -.04000 | -.04270 | .07201 | .03120 | -.02370 | .00830 | .03350 | -.04260 | .07204 | -.59134 |
| .597 | 10.000 | -.04000 | -.05300 | .07288 | .03120 | -.02730 | .00830 | .03440 | -.05300 | .07292 | -.72685 |
| .597 | GRADIENT | .00185 | .00052 | -.00003 | -.00028 | -.00298 | .00076 | .00364 | .00051 | -.00003 | .00754 |

(RUK107) (24 FEB 77)

LATO BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 80/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .896 | -5.050 | .0000 | -.05340 | .08411 | .04700 | .01830 | -.00770 | -.01540 | -.05340 | .08411 | -.63488 |
| .896 | -4.300 | -.02000 | -.06240 | .08379 | .04480 | .01350 | -.00650 | -.01320 | -.06240 | .08381 | -.74453 |
| .897 | -3.670 | -.02000 | -.05750 | .08284 | .04180 | .00960 | -.00590 | -.01110 | -.05750 | .08286 | -.69394 |
| .896 | -2.780 | -.01000 | -.05210 | .08198 | .04040 | .01040 | -.00410 | -.00890 | -.05210 | .08199 | -.63545 |
| .896 | -1.960 | -.01000 | -.05270 | .08147 | .03880 | .01040 | -.00630 | -.00630 | -.05270 | .08148 | -.64679 |
| .896 | -1.090 | -.01000 | -.04620 | .08077 | .03710 | .00220 | -.00190 | -.00410 | -.04620 | .08078 | -.57194 |
| .897 | -.180 | .00000 | -.04470 | .08069 | .03770 | -.00350 | -.00020 | -.00120 | -.04470 | .08069 | -.55397 |
| .896 | .490 | -.01000 | -.05050 | .08004 | .03740 | -.00290 | -.00150 | -.00180 | -.05050 | .08005 | -.63087 |
| .897 | 1.560 | .00000 | -.04140 | .08015 | .03870 | -.01210 | .00350 | .00510 | -.04140 | .08015 | -.51653 |
| .897 | 2.500 | .00000 | -.04590 | .08105 | .03920 | -.01180 | .00490 | .00760 | -.04590 | .08105 | -.56632 |
| .896 | 3.620 | -.01000 | -.05160 | .08201 | .04160 | -.01540 | .00690 | .01050 | -.05160 | .08202 | -.62912 |
| .895 | 4.590 | -.01000 | -.05410 | .08263 | .04210 | -.02440 | .00710 | .01280 | -.05410 | .08264 | -.65465 |
| .897 | 5.230 | -.01000 | -.05590 | .08397 | .04500 | -.02960 | .00800 | .01430 | -.05590 | .08398 | -.66564 |
| .896 | 5.900 | -.02000 | -.06400 | .08525 | .04520 | -.02570 | .00950 | .01650 | -.06400 | .08527 | -.75054 |
| .897 | 6.840 | -.01000 | -.06100 | .08626 | .04790 | -.02510 | .01080 | .01850 | -.06100 | .08627 | -.70708 |
| .896 | 7.560 | -.03000 | -.07270 | .08758 | .05110 | -.03000 | .01100 | .02060 | -.07260 | .08762 | -.82960 |
| .897 | 8.070 | -.02000 | -.07060 | .08946 | .05170 | -.03280 | .01150 | .02360 | -.07060 | .08948 | -.78896 |
| .896 | 9.140 | -.02000 | -.07290 | .09078 | .05250 | -.03170 | .01250 | .02570 | -.07290 | .09081 | -.80282 |
| .897 | 9.730 | -.02000 | -.07520 | .09274 | .05530 | -.03700 | .01360 | .02700 | -.07510 | .09277 | -.80956 |
| .896 | 10.010 | -.03000 | -.07920 | .09259 | .05680 | -.03910 | .01330 | .02800 | -.07920 | .09263 | -.85500 |
| GRADIENT | | .00136 | .00097 | -.00014 | -.00014 | -.00416 | .00163 | .00300 | .00097 | -.00014 | .01064 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK107) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 175/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .947 | -5.100 | .09000 | -.07190 | .10777 | .06510 | .02080 | -.00630 | -.01720 | -.07210 | .10766 | -.66972 |
| .947 | -4.310 | .10000 | -.05830 | .10674 | .06130 | .01170 | -.00620 | -.01510 | -.05850 | .10664 | -.54858 |
| .946 | -3.430 | .10000 | -.05680 | .10516 | .05800 | .00470 | -.00450 | -.01180 | -.05690 | .10506 | -.54159 |
| .949 | -2.600 | .10000 | -.05120 | .10470 | .05580 | .00850 | -.00330 | -.00900 | -.05140 | .10461 | -.49135 |
| .948 | -1.840 | .09000 | -.05620 | .10414 | .05420 | .00460 | -.00160 | -.00650 | -.05640 | .10405 | -.54204 |
| .947 | -.740 | .09000 | -.05420 | .10366 | .05300 | .00280 | -.00050 | -.00340 | -.05430 | .10357 | -.52426 |
| .946 | .110 | .10000 | -.04750 | .10292 | .05190 | -.00060 | .00010 | -.00080 | -.04770 | .10284 | -.46384 |
| .947 | 1.080 | .10000 | -.04770 | .10340 | .05210 | -.00530 | .00070 | .00240 | -.04790 | .10332 | -.46362 |
| .949 | 1.830 | .09000 | -.05290 | .10430 | .05210 | -.00610 | .00230 | .00500 | -.05310 | .10422 | -.50951 |
| .947 | 2.520 | .10000 | -.04730 | .10391 | .05220 | -.00440 | .00350 | .00670 | -.04750 | .10383 | -.45749 |
| .947 | 3.280 | .10000 | -.05250 | .10457 | .05440 | -.00430 | .00520 | .00950 | -.05270 | .10448 | -.50441 |
| .947 | 4.320 | .09000 | -.05960 | .10581 | .05820 | -.01330 | .00550 | .01270 | -.05980 | .10572 | -.56567 |
| .947 | 4.990 | .10000 | -.06090 | .10746 | .06150 | -.01620 | .00740 | .01540 | -.06110 | .10735 | -.56915 |
| .947 | 6.220 | .09000 | -.06800 | .10923 | .06460 | -.02160 | .00880 | .01890 | -.06820 | .10912 | -.62498 |
| .947 | 6.890 | .09000 | -.06940 | .11167 | .06660 | -.02640 | .00980 | .02160 | -.06960 | .11156 | -.62387 |
| .948 | 7.640 | .10000 | -.06780 | .11327 | .06910 | -.02320 | .01150 | .02450 | -.06800 | .11315 | -.60096 |
| .948 | 8.170 | .08000 | -.07860 | .11480 | .07040 | -.02850 | .01230 | .02700 | -.07880 | .11469 | -.68707 |
| .947 | 9.070 | .08000 | -.08220 | .11599 | .07130 | -.03180 | .01340 | .02970 | -.08240 | .11588 | -.71111 |
| .948 | 9.750 | .07000 | -.08740 | .11930 | .07280 | -.03650 | .01410 | .03180 | -.08750 | .11919 | -.73410 |
| .949 | 10.030 | .08000 | -.08510 | .11993 | .07510 | -.03610 | .01470 | .03250 | -.08530 | .11981 | -.71195 |
| | GRADIENT | -.00018 | -.00003 | .00005 | -.00019 | -.00256 | .00136 | .00320 | -.00004 | .00005 | -.00006 |

(RUK107) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 267/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .977 | -5.020 | .0000 | -.07210 | .12822 | .06710 | .01990 | -.00730 | -.01770 | -.07210 | .12822 | -.56231 |
| .976 | -4.370 | .0000 | -.06340 | .12587 | .06470 | .01690 | -.00570 | -.01570 | -.06340 | .12587 | -.50369 |
| .977 | -3.770 | .0000 | -.06550 | .12574 | .06270 | .00800 | -.00420 | -.01350 | -.06540 | .12574 | -.52012 |
| .977 | -2.750 | .0000 | -.05480 | .12458 | .06130 | .00730 | -.00230 | -.01010 | -.05480 | .12458 | -.43988 |
| .977 | -1.900 | .0000 | -.05700 | .12362 | .05010 | -.00230 | -.00230 | -.00780 | -.05700 | .12362 | -.46109 |
| .976 | -.860 | .0000 | -.05500 | .12269 | .05930 | .00170 | -.00100 | -.00490 | -.05600 | .12269 | -.45643 |
| .976 | -.110 | -.0100 | -.06340 | .12330 | .05790 | .00010 | .00020 | -.00200 | -.06330 | .12331 | -.51334 |
| .978 | .570 | .0000 | -.05850 | .12396 | .05760 | -.00030 | .00070 | .00080 | -.05850 | .12396 | -.47193 |
| .978 | 1.480 | .0000 | -.05390 | .12340 | .05850 | -.00890 | -.00020 | .00420 | -.05390 | .12340 | -.43679 |
| .977 | 2.440 | .0000 | -.05330 | .12372 | .05020 | .00080 | .00210 | .00700 | -.05330 | .12372 | -.43081 |
| .977 | 3.380 | .0000 | -.05750 | .12408 | .05940 | -.00470 | .00290 | .01000 | -.05750 | .12408 | -.46341 |
| .978 | 4.590 | .0100 | -.05230 | .12546 | .06230 | -.01200 | .00510 | .01330 | -.05230 | .12545 | -.41690 |
| .976 | 5.010 | .0000 | -.06890 | .12517 | .06470 | -.01700 | .00590 | .01530 | -.06890 | .12517 | -.55045 |
| .976 | 5.650 | .0000 | -.06140 | .12719 | .06580 | -.02000 | .00700 | .01670 | -.06150 | .12719 | -.48353 |
| .977 | 6.430 | .0000 | -.06710 | .12880 | .06830 | -.02410 | .00840 | .01970 | -.06710 | .12880 | -.52096 |
| .977 | 7.010 | .0000 | -.07010 | .13055 | .07050 | -.01980 | .01110 | .02270 | -.07010 | .13055 | -.53696 |
| .976 | 7.720 | .0000 | -.07070 | .13204 | .07070 | -.02650 | .01100 | .02520 | -.07070 | .13204 | -.53544 |
| .976 | 8.470 | .0000 | -.07520 | .13390 | .07120 | -.02280 | .01290 | .02780 | -.07520 | .13390 | -.56161 |
| .977 | 9.240 | -.0100 | -.08130 | .13624 | .07260 | -.03640 | .01320 | .02990 | -.08130 | .13625 | -.59668 |
| .977 | 9.960 | .0200 | -.08210 | .13832 | .07380 | -.04170 | .01330 | .03220 | -.08220 | .13829 | -.59440 |
| .977 | GRADIENT | .00055 | .00099 | -.00010 | -.00032 | -.00236 | .00105 | .00329 | .00099 | -.00010 | .00751 |

LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK107) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BRF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 253/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| 1.046 | -4.930 | -.0900 | -.05900 | .15000 | .06090 | .01360 | -.00390 | -.01640 | -.05880 | .15009 | -.39176 |
| 1.047 | -4.320 | -.09000 | -.05620 | .14962 | .05790 | .01030 | -.00330 | -.01440 | -.05600 | .14971 | -.37406 |
| 1.048 | -3.840 | -.09000 | -.05460 | .14883 | .05730 | .00390 | -.00220 | -.01210 | -.05440 | .14892 | -.36531 |
| 1.047 | -3.180 | -.09000 | -.05250 | .14802 | .05580 | .00270 | -.00180 | -.01030 | -.05230 | .14810 | -.35313 |
| 1.048 | -2.600 | -.09000 | -.05610 | .14750 | .05640 | -.00110 | -.00170 | -.00840 | -.05580 | .14759 | -.37808 |
| 1.046 | -1.790 | -.09000 | -.05530 | .14665 | .05680 | .00020 | -.00040 | -.00610 | -.05510 | .14694 | -.37499 |
| 1.048 | -.240 | -.09000 | -.05550 | .14673 | .05660 | .00120 | .00000 | -.00410 | -.05520 | .14682 | -.37598 |
| 1.048 | .240 | -.09000 | -.05180 | .14652 | .05720 | .00070 | .00090 | -.00180 | -.05150 | .14659 | -.35131 |
| 1.047 | .940 | -.09000 | -.05390 | .14649 | .05690 | -.00400 | .00060 | .00040 | -.05370 | .14657 | -.36637 |
| 1.047 | 1.810 | -.09000 | -.05670 | .14639 | .05610 | -.00200 | .00200 | .00290 | -.05840 | .14649 | -.39866 |
| 1.047 | 2.500 | -.09000 | -.05960 | .14637 | .05800 | -.00660 | .00170 | .00500 | -.05930 | .14646 | -.40488 |
| 1.048 | 3.180 | -.09000 | -.05200 | .14635 | .05890 | -.00470 | .00290 | .00680 | -.05180 | .14642 | -.35377 |
| 1.048 | 4.050 | -.09000 | -.06350 | .14721 | .05830 | -.00780 | .00290 | .00930 | -.05810 | .14730 | -.39443 |
| 1.046 | 4.740 | -.09000 | -.06260 | .14860 | .06140 | -.01540 | .00450 | .01380 | -.06330 | .14820 | -.42712 |
| 1.047 | 5.280 | -.09000 | -.06860 | .15003 | .06400 | -.01170 | .00620 | .01590 | -.06830 | .14870 | -.41897 |
| 1.047 | 6.230 | -.09000 | -.05120 | .15115 | .06330 | -.02020 | .00720 | .01820 | -.06400 | .15012 | -.45497 |
| 1.048 | 6.670 | -.09000 | -.06850 | .15314 | .06590 | -.02140 | .00890 | .02020 | -.06820 | .15326 | -.44500 |
| 1.047 | 7.290 | -.09000 | -.07620 | .15470 | .06890 | -.02330 | .01060 | .02190 | -.07600 | .15483 | -.49085 |
| 1.047 | 8.100 | -.09000 | -.07350 | .15558 | .06840 | -.02270 | .01260 | .02410 | -.07320 | .15671 | -.46711 |
| 1.047 | 8.660 | -.09000 | -.07750 | .15905 | .06940 | -.02990 | .01330 | .02630 | -.07720 | .15920 | -.48493 |
| 1.047 | 9.700 | -.09000 | -.07800 | .16127 | .06850 | -.03050 | .01420 | .02890 | -.07770 | .16142 | -.48135 |
| 1.047 | 10.050 | -.09000 | -.07590 | .16231 | .06850 | -.03150 | .01460 | .02940 | -.07560 | .16246 | -.46536 |
| GRADIENT | | -.00320 | -.00354 | -.00018 | .00023 | -.00213 | .00095 | .00310 | -.00053 | -.00018 | -.00047 |

(RUK108) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 CRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 84/ 0 RN/L = 4.44 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .897 | -5.130 | -.02000 | -.06240 | .08447 | .04540 | .01740 | -.00770 | -.01550 | -.06240 | .08449 | -.73853 |
| .896 | -4.640 | -.01000 | -.05720 | .08430 | .04430 | .01860 | -.00640 | -.01430 | -.05720 | .08431 | -.67845 |
| .896 | -3.940 | -.01000 | -.05370 | .08249 | .04400 | .01450 | -.00580 | -.01220 | -.05370 | .08250 | -.65091 |
| .897 | -2.980 | -.01000 | -.05300 | .08241 | .03890 | .00850 | -.00480 | -.00970 | -.05300 | .08242 | -.64305 |
| .896 | -2.330 | .00000 | -.03750 | .08070 | .04100 | .01350 | -.00250 | -.00700 | -.03750 | .08070 | -.46468 |
| .897 | -1.210 | .00000 | -.04560 | .08077 | .03820 | .00590 | -.00110 | -.00410 | -.04560 | .08077 | -.55457 |
| .896 | -.040 | .00000 | -.04350 | .08055 | .03710 | .00100 | .00010 | -.00100 | -.04350 | .08055 | -.54004 |
| .897 | 1.780 | .00000 | -.03620 | .08009 | .03730 | -.00610 | .00140 | .00190 | -.03620 | .08009 | -.45199 |
| .896 | 1.470 | .00000 | -.04080 | .08028 | .03770 | -.00710 | .00320 | .00430 | -.04080 | .08028 | -.50822 |
| .897 | 2.430 | -.01000 | -.04990 | .08148 | .03770 | -.00980 | .00550 | .00700 | -.04990 | .08149 | -.61235 |
| .896 | 2.900 | .00000 | -.04190 | .08124 | .03980 | -.01670 | .00500 | .00890 | -.04190 | .08124 | -.51576 |
| .897 | 4.070 | .00000 | -.04900 | .08227 | .04170 | -.01980 | .00630 | .01110 | -.04900 | .08227 | -.59438 |
| .896 | 5.010 | -.01000 | -.05270 | .08334 | .04300 | -.01920 | .00790 | .01320 | -.05270 | .08335 | -.63228 |
| .896 | 5.440 | -.01000 | -.05170 | .08452 | .04300 | -.02140 | .00920 | .01500 | -.05170 | .08453 | -.64711 |
| .897 | 6.380 | -.02000 | -.06170 | .08584 | .04530 | -.02550 | .01000 | .01720 | -.06170 | .08586 | -.71860 |
| .896 | 7.420 | -.02000 | -.06620 | .08710 | .04810 | -.02780 | .01080 | .02010 | -.06620 | .08712 | -.75870 |
| .896 | 8.190 | -.03000 | -.07120 | .08927 | .04940 | -.03110 | .01130 | .02240 | -.07120 | .08931 | -.79725 |
| .895 | 9.310 | -.02000 | -.06860 | .09110 | .05080 | -.02920 | .01280 | .02560 | -.06860 | .09112 | -.75172 |
| .897 | 9.590 | -.02000 | -.07360 | .09252 | .05400 | -.03670 | .01280 | .02550 | -.07360 | .09255 | -.79528 |
| .897 | 10.020 | -.02000 | -.07890 | .09299 | .05760 | -.03990 | .01350 | .02740 | -.07890 | .09302 | -.84823 |
| | GRADIENT | .00092 | .00103 | -.00020 | -.00044 | -.00439 | .00156 | .00299 | -.00103 | -.00020 | .01100 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK108) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 263/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .976 | -5.040 | -.08000 | -.07790 | .12554 | .07010 | .01900 | -.00700 | -.01700 | -.07770 | .12565 | -.61839 |
| .977 | -4.210 | -.07000 | -.07120 | .12502 | .06740 | .01640 | -.00460 | -.01420 | -.07100 | .12511 | -.56751 |
| .976 | -3.500 | -.08000 | -.07260 | .12348 | .06410 | .00790 | -.00440 | -.01200 | -.07240 | .12358 | -.58585 |
| .978 | -2.720 | -.05000 | -.06730 | .12323 | .06280 | .00090 | -.00280 | -.00970 | -.06710 | .12330 | -.54420 |
| .976 | -1.920 | -.07000 | -.06570 | .12157 | .06110 | .00200 | -.00160 | -.00710 | -.06550 | .12165 | -.53843 |
| .978 | -1.120 | -.03000 | -.05960 | .12239 | .06020 | .00150 | -.00090 | -.00460 | -.05950 | .12245 | -.48590 |
| .976 | -.300 | -.07000 | -.06410 | .12173 | .05890 | .00220 | .00000 | -.00200 | -.06400 | .12181 | -.52542 |
| .978 | .340 | -.07000 | -.06430 | .12267 | .05870 | .00470 | .00110 | .00050 | -.06420 | .12275 | -.52302 |
| .976 | 1.050 | -.08000 | -.06430 | .12146 | .05750 | -.00780 | .00010 | .00290 | -.06410 | .12155 | -.52735 |
| .977 | 1.770 | -.06000 | -.05890 | .12178 | .05600 | -.00520 | .00140 | .00520 | -.05880 | .12184 | -.48259 |
| .951 | 2.620 | -.07000 | -.05950 | .10414 | .05320 | -.00410 | .00390 | .00780 | -.05940 | .10421 | -.55999 |
| .885 | 3.660 | -.03000 | -.05850 | .07550 | .04190 | -.01330 | .00570 | .01100 | -.05850 | .07553 | -.77452 |
| .784 | 4.790 | -.02000 | -.05770 | .06501 | .03940 | -.01010 | .00580 | .01570 | -.05770 | .06503 | -.88728 |
| .701 | 5.360 | -.01000 | -.05440 | .06326 | .03870 | -.01640 | .00530 | .01820 | -.05430 | .06327 | -.85823 |
| .639 | 6.250 | -.01000 | -.05200 | .06400 | .03580 | -.01570 | .00540 | .02050 | -.05200 | .06401 | -.81238 |
| .594 | 6.800 | -.05000 | -.05730 | .05464 | .03270 | -.02080 | .00560 | .02330 | -.05720 | .06469 | -.88422 |
| | GRADIENT | .00429 | .00154 | -.00564 | -.00270 | -.00254 | .00120 | .00329 | .00152 | -.00564 | -.02490 |

(RUK108) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 252/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.047 | -5.040 | -.09000 | -.06420 | .15054 | .06250 | .00510 | -.00600 | -.01650 | -.06400 | .15064 | -.42485 |
| 1.047 | -4.470 | -.08000 | -.06130 | .14977 | .06100 | .00660 | -.00420 | -.01430 | -.06110 | .14986 | -.40773 |
| 1.048 | -3.760 | -.08000 | -.05880 | .14880 | .06130 | .00740 | -.00300 | -.01200 | -.05860 | .14888 | -.39360 |
| 1.048 | -2.850 | -.09000 | -.06160 | .14812 | .05980 | .00060 | -.00250 | -.00950 | -.06140 | .14822 | -.41426 |
| 1.047 | -2.210 | -.08000 | -.05830 | .14730 | .05780 | .00320 | -.00060 | -.00730 | -.05810 | .14738 | -.39422 |
| 1.047 | -1.550 | -.12000 | -.06150 | .14733 | .05810 | .00110 | .00000 | -.00510 | -.06120 | .14746 | -.41503 |
| 1.047 | -.680 | -.11000 | -.05760 | .14706 | .05800 | -.00150 | -.00010 | -.00290 | -.05730 | .14717 | -.38934 |
| 1.047 | .060 | -.12000 | -.06000 | .14661 | .05800 | .00100 | .00040 | -.00040 | -.05970 | .14674 | -.40685 |
| 1.048 | .680 | -.08000 | -.04950 | .14655 | .05710 | -.00610 | .00030 | .00160 | -.04930 | .14662 | -.33625 |
| 1.046 | 1.310 | -.10000 | -.05880 | .14649 | .05620 | -.00470 | .00180 | .00380 | -.05850 | .14659 | -.39907 |
| 1.048 | 2.140 | -.09000 | -.05720 | .14644 | .05810 | -.00860 | .00150 | .00610 | -.05690 | .14653 | -.38832 |
| 1.046 | 2.660 | -.10000 | -.05940 | .14695 | .05710 | -.00670 | .00270 | .00820 | -.05910 | .14705 | -.40189 |
| 1.048 | 3.490 | -.09000 | -.05630 | .14761 | .05810 | -.00700 | .00350 | .01020 | -.05610 | .14770 | -.37983 |
| 1.046 | 4.340 | -.09000 | -.05660 | .14826 | .05810 | -.00810 | .00430 | .01230 | -.05630 | .14835 | -.37951 |
| 1.049 | 4.810 | -.10000 | -.06050 | .14939 | .05890 | -.01250 | .00540 | .01410 | -.05020 | .14950 | -.40269 |
| 1.047 | 5.380 | -.09000 | -.05840 | .15027 | .06200 | -.01480 | .00580 | .01620 | -.05810 | .15036 | -.38640 |
| 1.047 | 6.180 | -.11000 | -.07370 | .15211 | .06230 | -.01330 | .00790 | .01840 | -.07330 | .15225 | -.48144 |
| 1.047 | 6.810 | -.10000 | -.06700 | .15343 | .06430 | -.02170 | .00890 | .02030 | -.06670 | .15355 | -.43440 |
| 1.046 | 7.490 | -.10000 | -.06950 | .15521 | .06530 | -.01970 | .01090 | .02240 | -.06820 | .15333 | -.44550 |
| 1.048 | 8.020 | -.10000 | -.07250 | .15672 | .06540 | -.02400 | .01150 | .02420 | -.07220 | .15685 | -.46032 |
| 1.046 | 8.670 | -.11000 | -.07310 | .15876 | .06540 | -.02700 | .01230 | .02630 | -.07280 | .15890 | -.45815 |
| 1.048 | 9.500 | -.11000 | -.07660 | .16110 | .06610 | -.03200 | .01330 | .02840 | -.07630 | .16125 | -.47319 |
| 1.046 | 10.040 | -.10000 | -.07270 | .16223 | .06660 | -.03340 | .01390 | .02940 | -.07240 | .16236 | -.44593 |
| | GRADIENT | -.00092 | .00032 | -.00008 | -.00028 | -.00191 | .00090 | .00307 | .00033 | -.00008 | .00205 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK109) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = 0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 217/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.198 | -5.110 | -.17000 | -.04330 | .15255 | .04530 | .00700 | -.00230 | -.01400 | -.04280 | .15268 | -.28033 |
| 1.198 | -4.690 | -.17000 | -.04390 | .15217 | .04320 | .00770 | -.00190 | -.01330 | -.04340 | .15230 | -.28496 |
| 1.197 | -3.760 | -.17000 | -.04060 | .15060 | .04340 | .00730 | -.00090 | -.01090 | -.04010 | .15072 | -.26606 |
| 1.197 | -2.660 | -.17000 | -.03970 | .14944 | .04230 | -.00090 | -.00160 | -.00810 | -.03920 | .14956 | -.26211 |
| 1.198 | -1.800 | -.16000 | -.03680 | .14825 | .04230 | .00350 | -.00010 | -.00590 | -.03640 | .14835 | -.24536 |
| 1.196 | -.950 | -.17000 | -.03790 | .14767 | .04250 | -.00040 | -.00020 | -.00410 | -.03750 | .14778 | -.25375 |
| 1.197 | -.190 | -.17000 | -.03690 | .14719 | .04160 | -.00380 | -.00040 | -.00220 | -.03840 | .14730 | -.26068 |
| 1.198 | .440 | -.17000 | -.03730 | .14683 | .04180 | -.00490 | .00000 | -.00020 | -.03680 | .14694 | -.25044 |
| 1.197 | 1.150 | -.17000 | -.03800 | .14698 | .04190 | -.00430 | .00080 | .00160 | -.03750 | .14709 | -.25494 |
| 1.196 | 2.100 | -.17000 | -.04170 | .14758 | .04100 | -.00270 | .00180 | .00360 | -.04120 | .14770 | -.27894 |
| 1.197 | 2.770 | -.17000 | -.03840 | .14761 | .04220 | -.00380 | .00200 | .00560 | -.03790 | .14772 | -.25656 |
| 1.197 | 3.510 | -.16000 | -.03630 | .14788 | .04230 | -.00270 | .00250 | .00760 | -.03580 | .14798 | -.24192 |
| 1.197 | 4.220 | -.17000 | -.04020 | .14852 | .04300 | -.00180 | .00330 | .00900 | -.03980 | .14864 | -.26776 |
| 1.197 | 5.040 | -.17000 | -.04100 | .14947 | .04440 | -.00580 | .00340 | .01080 | -.04060 | .14959 | -.27141 |
| 1.197 | 5.630 | -.17000 | -.04280 | .15083 | .04360 | -.00790 | .00300 | .01280 | -.04240 | .15096 | -.28088 |
| 1.197 | 6.670 | -.17000 | -.04290 | .15290 | .04470 | -.00740 | .00440 | .01520 | -.04230 | .15303 | -.27642 |
| 1.197 | 7.530 | -.17000 | -.04250 | .15509 | .04500 | -.01000 | .00550 | .01730 | -.04200 | .15522 | -.27059 |
| 1.198 | 8.160 | -.17000 | -.04390 | .15717 | .04490 | -.01460 | .00550 | .01940 | -.04340 | .15730 | -.27591 |
| 1.198 | 9.280 | -.18000 | -.04830 | .15967 | .04510 | -.01530 | .00700 | .02180 | -.04780 | .15982 | -.29908 |
| 1.197 | 9.890 | -.18000 | -.04980 | .16123 | .04580 | -.01960 | .00680 | .02360 | -.04930 | .16139 | -.30548 |
| | GRADIENT | .00019 | .00031 | -.00038 | -.00010 | -.00117 | .00054 | .00252 | .00051 | -.00039 | .00136 |

(RUK110) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 8.000 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 92/ 0 RN/L = 7.99 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | ALLRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .597 | -4.970 | .11000 | -.04300 | .06679 | .03330 | .01600 | -.00490 | -.01990 | -.04310 | .06671 | -.64611 |
| .599 | -4.600 | .12000 | -.03690 | .06638 | .02980 | .01630 | -.00370 | -.01820 | -.03700 | .06630 | -.55805 |
| .598 | -4.310 | .12000 | -.03380 | .06639 | .02520 | .01410 | -.00370 | -.01690 | -.03390 | .06632 | -.51117 |
| .598 | -3.740 | .12000 | -.02370 | .06589 | .02280 | .01530 | -.00320 | -.01550 | -.02390 | .06584 | -.36300 |
| .598 | -3.020 | .16000 | -.02810 | .06505 | .02390 | .00320 | -.00210 | -.00980 | -.02830 | .06497 | -.43558 |
| .598 | -1.630 | .11000 | -.03280 | .06460 | .02370 | .00710 | -.00190 | -.00710 | -.03290 | .06454 | -.50979 |
| .599 | -.730 | .11000 | -.03040 | .06462 | .02330 | .00830 | -.00000 | -.00450 | -.03060 | .06456 | -.47397 |
| .598 | -.360 | .13000 | -.02310 | .06431 | .02480 | .00360 | -.00030 | -.00140 | -.02320 | .06426 | -.36105 |
| .598 | .560 | .11000 | -.03030 | .06455 | .02340 | -.00290 | .00000 | -.00100 | -.03040 | .06449 | -.47138 |
| .599 | 1.500 | .17000 | -.02180 | .06467 | .02330 | -.00070 | .00120 | .00340 | -.02200 | .06461 | -.34053 |
| .598 | 2.080 | .19000 | -.01660 | .06457 | .02510 | -.00500 | .00180 | .00600 | -.01680 | .06451 | -.26041 |
| .599 | 2.930 | .18000 | -.01970 | .06468 | .02520 | -.00880 | .00220 | .00910 | -.01990 | .06462 | -.30796 |
| .598 | 3.550 | .17000 | -.02260 | .06522 | .02530 | -.01200 | .00230 | .01260 | -.02280 | .06515 | -.34985 |
| .598 | 4.440 | .15000 | -.01960 | .06539 | .02570 | -.01210 | .00420 | .01440 | -.01980 | .06534 | -.30304 |
| .598 | 5.230 | .12000 | -.02600 | .06664 | .02570 | -.00870 | .00470 | .01700 | -.02610 | .06659 | -.39198 |
| .598 | 5.840 | .10000 | -.03040 | .06786 | .02370 | -.01790 | .00530 | .02250 | -.03050 | .06781 | -.44981 |
| .599 | 7.200 | .16000 | -.02500 | .06873 | .02490 | -.01790 | .00560 | .02500 | -.02520 | .06866 | -.36703 |
| .598 | 7.480 | .18000 | -.02350 | .07011 | .02480 | -.02000 | .00750 | .02810 | -.02370 | .07004 | -.38440 |
| .599 | 8.430 | .16000 | -.02100 | .07086 | .02690 | -.02730 | .00640 | .03080 | -.02120 | .07080 | -.29943 |
| .599 | 9.440 | .15000 | -.01470 | .07155 | .02590 | -.02250 | .00800 | .03380 | -.01490 | .07151 | -.20836 |
| .599 | 9.950 | .01000 | -.02850 | .07395 | .02600 | -.02710 | .00820 | .03550 | -.02860 | .07395 | -.38677 |
| | GRADIENT | .00606 | -.00187 | -.00016 | -.00034 | -.00307 | .00084 | .00362 | .00187 | -.00016 | -.02738 |

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK110) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 53/ 0 RN/L = 7.76 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .900 | -4.380 | .11000 | -.04040 | .08373 | .04080 | .01510 | -.00570 | -.01400 | -.04050 | .08365 | -.48415 |
| .900 | -3.590 | .09000 | -.04150 | .08284 | .03720 | .00610 | -.00520 | -.01180 | -.04170 | .08277 | -.50376 |
| .900 | -2.930 | .12000 | -.02800 | .08233 | .03470 | .00950 | -.00360 | -.00990 | -.02820 | .08227 | -.34277 |
| .901 | -2.590 | .10000 | -.03060 | .08148 | .03170 | .00130 | -.00350 | -.00810 | -.03070 | .08143 | -.37703 |
| .900 | -1.730 | .10000 | -.03020 | .08051 | .03080 | .00300 | -.00170 | -.00570 | -.03040 | .08046 | -.37784 |
| .901 | -.520 | .12000 | -.02470 | .08058 | .02950 | -.00160 | -.00060 | -.00360 | -.02490 | .08053 | -.30921 |
| .901 | .110 | .14000 | -.01510 | .08008 | .02710 | -.00260 | -.00090 | -.00160 | -.01530 | .08004 | -.19115 |
| .901 | .850 | .07000 | -.02480 | .08010 | .02550 | -.00810 | .00220 | .00050 | -.02490 | .08007 | -.31098 |
| .901 | 1.500 | .09000 | -.02100 | .08073 | .02750 | -.01290 | .00290 | .00290 | -.02110 | .08070 | -.26147 |
| .901 | 2.280 | .07000 | -.03190 | .08103 | .02970 | -.01220 | .00510 | .00470 | -.03200 | .08099 | -.39511 |
| .901 | 3.130 | .11000 | -.02660 | .08151 | .03250 | -.01340 | .00610 | .00700 | -.02680 | .08146 | -.32900 |
| .900 | 3.830 | .08000 | -.03840 | .08228 | .03270 | -.02090 | .00570 | .00870 | -.03850 | .08223 | -.46822 |
| .900 | 4.570 | .11000 | -.03960 | .08275 | .03640 | -.02480 | .00580 | .01080 | -.02980 | .08269 | -.36037 |
| .900 | 5.280 | .11000 | -.03170 | .08405 | .03730 | -.02000 | .00820 | .01220 | -.03180 | .08399 | -.37862 |
| .901 | 6.130 | .09000 | -.04140 | .08517 | .03910 | -.02200 | .00940 | .01430 | -.04150 | .08510 | -.48763 |
| .900 | 6.790 | .08000 | -.04960 | .08623 | .04290 | -.03310 | .00920 | .01670 | -.04460 | .08616 | -.57683 |
| .901 | 7.090 | .08000 | -.04450 | .08744 | .04290 | -.03130 | .01030 | .01880 | -.04460 | .08738 | -.51043 |
| .901 | 8.010 | .06000 | -.04460 | .08956 | .04220 | -.02980 | .01180 | .02110 | -.04470 | .08951 | -.49937 |
| .901 | 9.080 | .07000 | -.04580 | .09098 | .04380 | -.04110 | .01070 | .02370 | -.04690 | .09092 | -.51582 |
| .901 | 9.370 | .03000 | -.06530 | .09168 | .04900 | -.04150 | .01200 | .02500 | -.06530 | .09165 | -.71253 |
| .900 | 9.800 | .04000 | -.06240 | .09256 | .05080 | -.02870 | .01450 | .02560 | -.06240 | .09252 | -.67447 |
| .901 | 10.070 | .05000 | -.06310 | .09314 | .05580 | -.04640 | .01320 | .02710 | -.06320 | .09308 | -.67895 |
| .901 | 10.590 | .03000 | -.07560 | .09440 | .05740 | -.03690 | .01530 | .02940 | -.07570 | .09436 | -.80224 |
| GRADIENT | | -.00174 | -.00072 | -.00009 | -.00053 | -.00394 | .00146 | -.00275 | -.00072 | -.00009 | -.00834 |

(RUK111) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 113/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CO | L/D |
|------|----------|---------|--------|---------|---------|---------|---------|---------|--------|--------|---------|
| .597 | -4.790 | 4.77000 | .17850 | .05375 | .03190 | .01850 | -.00420 | -.01990 | .17340 | .06841 | 2.53482 |
| .597 | -3.970 | 4.77000 | .18070 | .05270 | .03160 | .01580 | -.00350 | -.01690 | .17570 | .06754 | 2.60128 |
| .597 | -3.000 | 4.78000 | .18470 | .05171 | .03160 | .01220 | -.00290 | -.01330 | .17970 | .06632 | 2.68525 |
| .597 | -2.330 | 4.77000 | .18460 | .05163 | .03220 | .01020 | -.00170 | -.00970 | .17970 | .06680 | 2.69005 |
| .597 | -1.040 | 4.77000 | .18240 | .05179 | .03230 | .00400 | -.00110 | -.00560 | .17750 | .06678 | 2.65805 |
| .596 | .060 | 4.77000 | .18690 | .05143 | .03070 | .00330 | .00010 | -.00130 | .18200 | .06679 | 2.72481 |
| .596 | 1.080 | 4.77000 | .18380 | .05162 | .03050 | .00020 | .00090 | .00230 | .17890 | .06673 | 2.68114 |
| .596 | 2.270 | 4.77000 | .18720 | .05193 | .03080 | -.00410 | .00200 | .00680 | .18230 | .06732 | 2.70908 |
| .597 | 2.910 | 4.76000 | .18190 | .05254 | .02900 | -.00910 | .00230 | .01040 | .17690 | .06745 | 2.62256 |
| .596 | 3.800 | 4.77000 | .18420 | .05265 | .03000 | -.01100 | .00310 | .01330 | .17920 | .06778 | 2.64365 |
| .597 | 4.480 | 4.82000 | .18440 | .05294 | .03020 | -.01460 | .00360 | .01520 | .17930 | .06825 | 2.62722 |
| .597 | 5.230 | 4.83000 | .18120 | .05373 | .03120 | -.01460 | .00430 | .01860 | .17610 | .06880 | 2.55974 |
| .597 | 5.890 | 4.82000 | .19050 | .05397 | .02950 | -.02120 | .00550 | .02120 | .18530 | .06979 | 2.65526 |
| .596 | 6.820 | 4.79000 | .18350 | .05566 | .03050 | -.01910 | .00540 | .02580 | .17820 | .07079 | 2.51736 |
| .597 | 7.890 | 4.77000 | .18270 | .05737 | .02900 | -.02620 | .00720 | .02860 | .17720 | .07236 | 2.44873 |
| .597 | 8.620 | 4.80000 | .18260 | .05927 | .02790 | -.02930 | .00760 | .03200 | .17700 | .07434 | 2.38090 |
| .597 | 9.530 | 4.83000 | .18980 | .05929 | .02730 | -.02640 | .00890 | .03470 | .18320 | .07498 | 2.44316 |
| .597 | 10.010 | 4.77000 | .18560 | .06021 | .03010 | -.02950 | .00850 | .03550 | .18000 | .07544 | 2.38615 |
| | GRADIENT | .00162 | .00040 | -.00001 | -.00026 | -.00346 | .00085 | .00393 | .00040 | .00002 | .00486 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK111) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 81/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .896 | -5.080 | 5.42000 | .25410 | .07991 | .01990 | .01680 | -.00620 | -.01290 | .24540 | .10355 | 2.36978 |
| .896 | -4.820 | 5.42000 | .25810 | .07976 | .02040 | .01640 | -.00530 | -.01200 | .24940 | .10378 | 2.40310 |
| .896 | -4.000 | 5.43000 | .26190 | .07933 | .02230 | .01060 | -.00540 | -.00990 | .25320 | .10376 | 2.44031 |
| .896 | -3.340 | 5.43000 | .25880 | .07824 | .02320 | .00890 | -.00360 | -.00790 | .25030 | .10238 | 2.44484 |
| .896 | -2.560 | 5.43000 | .25830 | .07789 | .02420 | .01100 | -.00230 | -.00630 | .24980 | .10198 | 2.44942 |
| .896 | -1.890 | 5.43000 | .25310 | .07782 | .02420 | .00480 | -.00250 | -.00400 | .24460 | .10142 | 2.41172 |
| .896 | -.630 | 5.43000 | .24960 | .07775 | .02500 | -.00400 | -.00100 | -.00160 | .24110 | .10102 | 2.38664 |
| .895 | .300 | 5.41000 | .24740 | .07706 | .02500 | -.00530 | .00010 | .00070 | .23900 | .10004 | 2.38899 |
| .896 | 1.320 | 5.43000 | .25350 | .07691 | .02410 | -.01310 | .00190 | .00290 | .24510 | .10055 | 2.43751 |
| .897 | 2.250 | 5.43000 | .25600 | .07753 | .02280 | -.01160 | .00310 | .00500 | .24750 | .10141 | 2.44065 |
| .895 | 2.870 | 5.43000 | .25680 | .07737 | .02170 | -.01480 | .00400 | .00680 | .24840 | .10132 | 2.45155 |
| .896 | 3.860 | 5.43000 | .26080 | .07791 | .01990 | -.01470 | .00520 | .00900 | .25230 | .10224 | 2.46773 |
| .896 | 4.750 | 5.43000 | .26050 | .07863 | .01850 | -.01950 | .00650 | .01110 | .25190 | .10293 | 2.44734 |
| .897 | 5.500 | 5.43000 | .26360 | .07979 | .01630 | -.02170 | .00750 | .01400 | .25490 | .10438 | 2.44213 |
| .895 | 6.390 | 5.44000 | .27040 | .08075 | .01550 | -.02360 | .00840 | .01630 | .26150 | .10602 | 2.46649 |
| .896 | 6.900 | 5.44000 | .26850 | .08144 | .01610 | -.02780 | .00930 | .01790 | .25960 | .10653 | 2.43692 |
| .896 | 7.590 | 5.45000 | .27300 | .08265 | .01570 | -.02980 | .01040 | .01970 | .26390 | .10821 | 2.43889 |
| .896 | 8.100 | 5.42000 | .25970 | .08549 | .01340 | -.03690 | .01090 | .02240 | .25050 | .10984 | 2.28479 |
| .895 | 9.000 | 5.43000 | .26930 | .08607 | .01280 | -.03670 | .01220 | .02470 | .25990 | .11117 | 2.33791 |
| .896 | 9.930 | 5.41000 | .26260 | .08859 | .01250 | -.04120 | .01240 | .02670 | .25310 | .11295 | 2.24074 |
| | GRADIENT | .00033 | -.00002 | -.00014 | -.00025 | -.00378 | .00130 | .00238 | -.00001 | -.00014 | .00322 |

(RUK111) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 176/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILIRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .947 | -5.100 | 4.98000 | .25610 | .10343 | .01810 | .01540 | -.00660 | -.01670 | .24620 | .12527 | 1.96534 |
| .947 | -4.490 | 4.97000 | .24940 | .10350 | .01740 | .01190 | -.00690 | -.01480 | .23950 | .12472 | 1.92034 |
| .948 | -3.670 | 4.97000 | .25130 | .10229 | .01560 | .01020 | -.00530 | -.01200 | .24150 | .12368 | 1.95267 |
| .949 | -2.680 | 4.97000 | .25440 | .10109 | .01570 | .00540 | -.00410 | -.00920 | .24470 | .12275 | 1.99349 |
| .948 | -2.100 | 4.99000 | .26520 | .09998 | .01420 | .00370 | -.00300 | -.00770 | .25950 | .12267 | 2.08285 |
| .947 | -1.520 | 4.96000 | .25700 | .09962 | .01260 | .00340 | -.00200 | -.00560 | .24740 | .12147 | 2.03676 |
| .948 | -.630 | 4.95000 | .25230 | .09955 | .01170 | .00070 | -.00110 | -.00320 | .24270 | .12095 | 2.00663 |
| .949 | .160 | 4.96000 | .25260 | .10071 | .01070 | -.00240 | -.00020 | -.00100 | .24290 | .12217 | 1.98817 |
| .948 | .400 | 4.96000 | .25290 | .09985 | .01040 | -.00430 | .00060 | .00130 | .24330 | .12134 | 2.00508 |
| .946 | 1.540 | 4.96000 | .25230 | .09963 | .01240 | -.00480 | .00150 | .00340 | .24280 | .12107 | 2.00544 |
| .948 | 2.040 | 4.96000 | .24950 | .10085 | .01260 | -.00740 | .00220 | .00590 | .23980 | .12204 | 1.96486 |
| .948 | 3.250 | 4.97000 | .25400 | .10171 | .01470 | -.01190 | .00350 | .00830 | .24420 | .12333 | 1.98001 |
| .949 | 4.130 | 4.94000 | .24610 | .10338 | .01480 | -.00950 | .00590 | .01080 | .23630 | .12419 | 1.90276 |
| .948 | 4.810 | 4.95000 | .24970 | .10399 | .01900 | -.01220 | .00760 | .01370 | .23980 | .12515 | 1.91613 |
| .948 | 6.200 | 4.94000 | .24590 | .10585 | .01840 | -.01720 | .00880 | .01670 | .23580 | .12663 | 1.86209 |
| .946 | 6.600 | 4.94000 | .24230 | .10665 | .02030 | -.02530 | .00850 | .01920 | .23230 | .12712 | 1.82742 |
| .947 | 7.080 | 4.93000 | .23630 | .10907 | .02230 | -.02950 | .01010 | .02120 | .22600 | .12897 | 1.75229 |
| .948 | 8.180 | 4.94000 | .24180 | .11092 | .02260 | -.02800 | .01160 | .02410 | .23130 | .13133 | 1.76121 |
| .948 | 8.740 | 4.93000 | .23930 | .11306 | .02070 | -.02760 | .01220 | .02660 | .22870 | .13321 | 1.71688 |
| .947 | 9.960 | 4.94000 | .23760 | .11443 | .02180 | -.03100 | .01270 | .03030 | .22680 | .13447 | 1.68668 |
| | GRADIENT | -.00253 | -.00059 | .00012 | -.00000 | -.00264 | .00143 | .00302 | -.00059 | .00005 | -.00565 |

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK111) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 268/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CO | L/D |
|------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|---------|
| .977 | -4.980 | 4.94000 | .25230 | .12466 | .01700 | .01850 | -.00730 | -.01730 | .24060 | .14592 | 1.64881 |
| .977 | -4.760 | 4.94000 | .25030 | .12316 | .01720 | .01610 | -.00680 | -.01580 | .23870 | .14426 | 1.65469 |
| .975 | -4.070 | 4.95000 | .25330 | .12070 | .01840 | .01690 | -.00580 | -.01380 | .24790 | .14262 | 1.73814 |
| .976 | -3.580 | 4.94000 | .25350 | .12012 | .01570 | .00890 | -.00540 | -.01190 | .24220 | .14150 | 1.71162 |
| .977 | -2.790 | 4.95000 | .26230 | .11945 | .01470 | .00830 | -.00370 | -.00970 | .25100 | .14164 | 1.77213 |
| .978 | -2.060 | 4.95000 | .26010 | .11897 | .01490 | .00390 | -.00190 | -.00730 | .24880 | .14097 | 1.76492 |
| .976 | -.840 | 4.96000 | .26700 | .11792 | .01310 | .00160 | -.00140 | -.00520 | .25580 | .14056 | 1.81982 |
| .977 | .040 | 4.94000 | .26210 | .11791 | .01090 | .00250 | -.00010 | -.00200 | .25100 | .14004 | 1.79232 |
| .977 | .460 | 4.94000 | .26490 | .11825 | .01220 | -.00170 | -.00080 | -.00080 | .25370 | .14062 | 1.80413 |
| .977 | 1.770 | 4.94000 | .25980 | .11903 | .01110 | -.00560 | .00110 | .00390 | .24850 | .14096 | 1.76291 |
| .977 | 2.360 | 4.94000 | .26230 | .11843 | .01310 | -.00410 | .00200 | .00600 | .25120 | .14058 | 1.78692 |
| .975 | 3.090 | 4.94000 | .26100 | .11877 | .01480 | -.00900 | .00280 | .00840 | .24980 | .14080 | 1.77410 |
| .975 | 3.960 | 4.94000 | .25480 | .12004 | .01570 | -.00680 | .00440 | .01030 | .24350 | .14154 | 1.72042 |
| .976 | 4.720 | 4.93000 | .24550 | .12212 | .01660 | -.01350 | .00590 | .01330 | .23410 | .14277 | 1.63974 |
| .978 | 5.610 | 4.95000 | .25630 | .12371 | .01830 | -.01440 | .00760 | .01550 | .24470 | .14536 | 1.68336 |
| .977 | 6.250 | 4.94000 | .25190 | .12514 | .01990 | -.02030 | .00810 | .01720 | .24010 | .14637 | 1.64040 |
| .975 | 6.930 | 4.94000 | .25280 | .12586 | .01890 | -.02400 | .00930 | .01920 | .24100 | .14716 | 1.63765 |
| .976 | 7.500 | 4.93000 | .24620 | .12908 | .02000 | -.02610 | .01050 | .02210 | .23410 | .14976 | 1.56316 |
| .977 | 8.270 | 4.94000 | .24680 | .13119 | .02180 | -.03300 | .01150 | .02580 | .23450 | .15196 | 1.54322 |
| .977 | 9.700 | 4.94000 | .25170 | .13380 | .01910 | -.03340 | .01270 | .02890 | .23920 | .15498 | 1.54715 |
| .977 | 10.020 | 4.91000 | .24440 | .13436 | .01970 | -.05040 | .01320 | .02970 | .23200 | .15479 | 1.49885 |
| | GRADIENT | -.00094 | .00005 | -.00025 | -.00028 | -.00294 | .00127 | .00307 | .00008 | -.00025 | .00360 |

(RUK111) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 254/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|---------|
| 1.047 | -5.060 | 4.84000 | .26130 | .15253 | .00370 | .00740 | -.00470 | -.01490 | .24750 | .17403 | 1.42214 |
| 1.047 | -4.610 | 4.83000 | .26470 | .15196 | .00080 | .00640 | -.00400 | -.01350 | .25090 | .17380 | 1.44365 |
| 1.048 | -4.000 | 4.84000 | .26570 | .15156 | -.00080 | .00570 | -.00320 | -.01120 | .25200 | .17344 | 1.45297 |
| 1.046 | -3.200 | 4.84000 | .26480 | .15060 | .00060 | .00350 | -.00200 | -.00930 | .25110 | .17241 | 1.45645 |
| 1.048 | -2.580 | 4.84000 | .26980 | .15034 | -.00260 | .00060 | -.00130 | -.00730 | .25610 | .17257 | 1.48405 |
| 1.046 | -1.790 | 4.85000 | .27200 | .14974 | -.00300 | .00300 | -.00050 | -.00590 | .25840 | .17220 | 1.50057 |
| 1.048 | -.900 | 4.86000 | .27460 | .14927 | -.00160 | -.00060 | -.00060 | -.00370 | .26100 | .17200 | 1.51746 |
| 1.046 | -.240 | 4.86000 | .27520 | .14906 | -.00130 | -.00000 | -.00000 | -.00190 | .26150 | .17184 | 1.52177 |
| 1.048 | .380 | 4.85000 | .26880 | .14897 | -.00210 | -.00270 | .00000 | .00040 | .25520 | .17116 | 1.49098 |
| 1.047 | 1.050 | 4.86000 | .27350 | .14917 | -.00230 | -.00450 | .00050 | .00250 | .25990 | .17180 | 1.51276 |
| 1.047 | 1.730 | 4.83000 | .26730 | .14937 | -.00170 | -.00750 | -.00010 | .00420 | .25380 | .17135 | 1.48121 |
| 1.047 | 2.430 | 4.83000 | .26810 | .15043 | -.00250 | -.00230 | .00180 | .00610 | .25450 | .17247 | 1.47562 |
| 1.047 | 2.890 | 4.82000 | .26540 | .15005 | -.00030 | -.00520 | .00160 | .00780 | .25190 | .17182 | 1.46607 |
| 1.047 | 3.640 | 4.85000 | .27060 | .15101 | .00000 | -.00490 | .00300 | .00940 | .25690 | .17335 | 1.48199 |
| 1.047 | 4.420 | 4.87000 | .26800 | .15195 | -.00010 | -.01280 | .00310 | .01160 | .25420 | .17415 | 1.45963 |
| 1.048 | 5.070 | 4.86000 | .26630 | .15345 | .00040 | -.01330 | .00420 | .01300 | .25230 | .17546 | 1.43794 |
| 1.046 | 5.930 | 4.83000 | .26790 | .15415 | .00110 | -.01310 | .00500 | .01570 | .25400 | .17616 | 1.44187 |
| 1.047 | 6.440 | 4.83000 | .26370 | .15516 | .00230 | -.01480 | .00660 | .01760 | .24960 | .17681 | 1.41167 |
| 1.046 | 7.120 | 4.83000 | .26300 | .15669 | .00190 | -.01780 | .00770 | .01940 | .24890 | .17681 | 1.39613 |
| 1.048 | 7.750 | 4.82000 | .26600 | .15833 | .00170 | -.02640 | .00810 | .02120 | .25180 | .18012 | 1.39795 |
| 1.046 | 8.410 | 4.82000 | .25980 | .15967 | .00410 | -.02330 | .01060 | .02370 | .24540 | .18094 | 1.35629 |
| 1.048 | 9.150 | 4.82000 | .25960 | .16158 | .00310 | -.02700 | .01140 | .02560 | .24510 | .18282 | 1.34065 |
| 1.046 | 9.940 | 4.82000 | .25910 | .16290 | .00400 | -.03090 | .01210 | .02740 | .24450 | .18409 | 1.32812 |
| 1.046 | GRADIENT | .00012 | .00021 | -.00005 | -.00003 | -.00169 | .00070 | .00276 | .00022 | -.00003 | .00154 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPDRBK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 218/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|---------|
| 1.196 | -5.050 | 4.46000 | .23840 | .14923 | -.01150 | .01060 | .00010 | -.01270 | .22610 | .16732 | 1.35133 |
| 1.198 | -4.800 | 4.45000 | .23860 | .14894 | -.01130 | .00170 | -.00220 | -.01280 | .22650 | .16692 | 1.35694 |
| 1.198 | -4.320 | 4.47000 | .24000 | .14789 | -.01080 | -.00660 | -.00240 | -.01130 | .22780 | .16615 | 1.37109 |
| 1.198 | -3.330 | 4.46000 | .24170 | .14625 | -.01020 | -.00300 | -.00050 | -.00850 | .22960 | .16460 | 1.39488 |
| 1.198 | -2.390 | 4.46000 | .24430 | .14516 | -.01160 | .00510 | .00080 | -.00660 | .23230 | .16372 | 1.41890 |
| 1.198 | -1.560 | 4.49000 | .24350 | .14487 | -.01070 | -.00020 | -.00010 | -.00470 | .23150 | .16350 | 1.41594 |
| 1.197 | -.580 | 4.49000 | .24000 | .14482 | -.01130 | .00230 | .00070 | -.00270 | .22790 | .16316 | 1.39675 |
| 1.197 | .090 | 4.52000 | .24820 | .14471 | -.01240 | .00070 | .00060 | -.00150 | .23600 | .16382 | 1.44061 |
| 1.197 | .340 | 4.52000 | .24670 | .14449 | -.01190 | -.00610 | -.00030 | .00010 | .23460 | .16348 | 1.43502 |
| 1.198 | 1.210 | 4.50000 | .24370 | .14475 | -.01210 | .00100 | .00130 | .00180 | .23160 | .16342 | 1.41717 |
| 1.198 | 2.130 | 4.48000 | .24180 | .14516 | -.01170 | -.00300 | .00050 | .00340 | .22970 | .16360 | 1.40400 |
| 1.197 | 2.940 | 4.48000 | .24350 | .14547 | -.01090 | -.00690 | -.00010 | .00530 | .23140 | .16405 | 1.41058 |
| 1.196 | 3.690 | 4.48000 | .24220 | .14625 | -.01150 | -.01120 | -.00090 | .00690 | .23000 | .16472 | 1.39629 |
| 1.197 | 4.360 | 4.48000 | .24030 | .14694 | -.01100 | -.00130 | .00250 | .00850 | .22810 | .16526 | 1.38024 |
| 1.198 | 4.770 | 4.48000 | .24000 | .14760 | -.00980 | -.00680 | .00130 | .01010 | .22780 | .16590 | 1.37315 |
| 1.198 | 6.320 | 4.49000 | .24380 | .14887 | -.00920 | -.01010 | .00250 | .01290 | .23140 | .16750 | 1.38150 |
| 1.199 | 6.800 | 4.49000 | .24330 | .15044 | -.01050 | .00270 | .00460 | .01490 | .23080 | .16903 | 1.36548 |
| 1.197 | 7.730 | 4.48000 | .24180 | .15225 | -.01000 | .00170 | .00730 | .01730 | .22920 | .17067 | 1.34293 |
| 1.199 | 8.550 | 4.46000 | .23460 | .15491 | -.01190 | -.00410 | .00620 | .02050 | .22180 | .17268 | 1.28443 |
| 1.197 | 9.670 | 4.48000 | .24340 | .15635 | -.01160 | -.01530 | .00430 | .02270 | .23050 | .17488 | 1.31801 |
| 1.196 | 10.020 | 4.46000 | .24050 | .15701 | -.01300 | -.01200 | .00530 | .02350 | .22750 | .17524 | 1.29824 |
| | GRADIENT | .00240 | .00007 | -.00008 | .00000 | -.00064 | .00028 | .00230 | .00007 | -.00007 | .00097 |

(RUK113) (24 FEB 77)

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 3.500 ELEVON = .000
 BETA = .000 ALPHA = 6.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 39/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|---------|
| .598 | -4.980 | 6.35000 | .27380 | .04647 | .02760 | .02210 | -.00360 | -.01880 | .26690 | .07647 | 3.49037 |
| .597 | -4.140 | 6.30000 | .26850 | .04613 | .02740 | .01860 | -.00300 | -.01590 | .26180 | .07532 | 3.47606 |
| .598 | -3.450 | 6.30000 | .27660 | .04517 | .02900 | .01480 | -.00290 | -.01360 | .27000 | .07525 | 3.58805 |
| .598 | -2.690 | 6.28000 | .25490 | .04748 | .02600 | .01110 | -.00230 | -.01160 | .24820 | .07508 | 3.30590 |
| .598 | -2.060 | 6.29000 | .24490 | .04815 | .02580 | .00730 | -.00130 | -.00790 | .23820 | .07469 | 3.18911 |
| .598 | -1.610 | 6.36000 | .28900 | .04340 | .02780 | .00420 | -.00120 | -.00660 | .28240 | .07515 | 3.75797 |
| .598 | -.270 | 6.27000 | .27260 | .04600 | .02480 | .00890 | -.00040 | -.00270 | .26590 | .07550 | 3.52202 |
| .598 | .470 | 6.35000 | .28120 | .04440 | .02640 | .00600 | -.00100 | .00000 | .27450 | .07523 | 3.64887 |
| .597 | 1.250 | 6.31000 | .27060 | .04457 | .02550 | .00150 | .00080 | .00350 | .26410 | .07404 | 3.56694 |
| .596 | 2.070 | 6.31000 | .26780 | .04586 | .02650 | -.00090 | .00170 | .00690 | .26120 | .07502 | 3.48195 |
| .598 | 2.700 | 6.32000 | .27590 | .04531 | .02590 | -.00390 | .00250 | .00950 | .26920 | .07541 | 3.57001 |
| .597 | 3.310 | 6.31000 | .27830 | .04420 | .02690 | -.00730 | .00220 | .01180 | .27170 | .07452 | 3.64602 |
| .598 | 4.260 | 6.27000 | .26120 | .04740 | .02610 | -.00650 | .00300 | .01420 | .25450 | .07564 | 3.36448 |
| .597 | 5.040 | 6.34000 | .26910 | .04625 | .02490 | -.00940 | .00370 | .01680 | .26230 | .07568 | 3.46575 |
| .597 | 5.380 | 6.30000 | .27710 | .04714 | .02860 | -.01350 | .00500 | .01840 | .27020 | .07726 | 3.49716 |
| .598 | 6.070 | 6.34000 | .27450 | .04754 | .02770 | -.01390 | .00500 | .02110 | .26760 | .07756 | 3.45015 |
| .597 | 7.160 | 6.26000 | .25860 | .04971 | .02480 | -.01350 | .00510 | .02450 | .25170 | .07761 | 3.24308 |
| .597 | 7.760 | 6.32000 | .26950 | .05025 | .02770 | -.01610 | .00600 | .02660 | .26230 | .07961 | 3.29475 |
| .598 | 8.090 | 6.32000 | .26920 | .05130 | .02550 | -.02050 | .00580 | .02870 | .26190 | .08062 | 3.24849 |
| .596 | 9.410 | 6.33000 | .26890 | .05320 | .02740 | -.02370 | .00720 | .03190 | .26140 | .08252 | 3.16760 |
| .598 | 9.810 | 6.33000 | .25900 | .05404 | .02550 | -.01920 | .00810 | .03330 | .25150 | .08227 | 3.05714 |
| .597 | 10.050 | 6.33000 | .26550 | .05351 | .02840 | -.03050 | .00780 | .03360 | .25800 | .08246 | 3.12893 |
| | GRADIENT | -.00184 | .00032 | -.00009 | -.00018 | -.00297 | .00075 | .00366 | .00034 | -.00773 | .00773 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)

(RUK114) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 3.500 ELEVON = .000
 BETA = .000 ALPHA = 6.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 40/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|--------|---------|--------|---------|---------|---------|--------|---------|---------|
| .597 | -5.040 | 6.34000 | .27210 | .04628 | .02660 | .02010 | -.00360 | -.02010 | .26540 | .07604 | 3.49006 |
| .596 | -4.730 | 6.30000 | .26140 | .04790 | .02370 | .01580 | -.00470 | -.01830 | .25460 | .07630 | 3.33703 |
| .596 | -4.200 | 6.36000 | .27850 | .04536 | .01980 | .00940 | -.00230 | -.00890 | .27170 | .07593 | 3.57822 |
| .595 | -3.760 | 6.33000 | .27190 | .04559 | .02410 | .01000 | -.00170 | -.00840 | .26520 | .07529 | 3.52237 |
| .595 | -3.340 | 6.34000 | .27250 | .04755 | .01700 | .01180 | -.00330 | -.01350 | .26560 | .07735 | 3.43370 |
| .596 | -3.100 | 6.31000 | .26330 | .04617 | .02690 | .00360 | -.00220 | -.00620 | .25660 | .07483 | 3.42915 |
| .597 | -1.300 | 6.36000 | .26730 | .04476 | .02880 | .00390 | -.00120 | -.00450 | .26070 | .07409 | 3.51847 |
| .596 | .150 | 6.33000 | .27190 | .04393 | .02830 | .00220 | -.00000 | -.00150 | .26540 | .07364 | 3.60400 |
| .597 | .440 | 6.31000 | .26020 | .04536 | .02770 | -.00250 | -.00010 | .00190 | .25360 | .07368 | 3.44176 |
| .596 | 1.340 | 6.32000 | .27620 | .04451 | .02800 | -.00150 | .00150 | .00450 | .26360 | .07464 | 3.61181 |
| .596 | 2.200 | 6.32000 | .27220 | .04538 | .02620 | -.00280 | .00170 | .00660 | .26560 | .07507 | 3.53811 |
| .597 | 2.950 | 6.32000 | .27300 | .04517 | .03140 | -.00220 | .00300 | .00990 | .26640 | .07495 | 3.59448 |
| .597 | 3.930 | 6.37000 | .28280 | .04401 | .03130 | -.00400 | .00300 | .01160 | .27610 | .07511 | 3.67572 |
| .596 | 4.550 | 6.31000 | .26660 | .04683 | .02800 | -.01300 | .00370 | .01480 | .25980 | .07585 | 3.42528 |
| .596 | 5.120 | 6.32000 | .26810 | .04621 | .02890 | -.00960 | .00400 | .01810 | .26140 | .07544 | 3.46492 |
| .597 | 5.930 | 6.32000 | .26670 | .04758 | .02850 | -.01330 | .00470 | .02040 | .25980 | .07665 | 3.38945 |
| .597 | 6.200 | 6.36000 | .25830 | .04895 | .02920 | -.01940 | .00410 | .02270 | .25130 | .07726 | 3.25257 |
| .597 | 7.690 | 6.32000 | .26080 | .04979 | .03280 | -.01560 | .00560 | .02570 | .25370 | .07820 | 3.24439 |
| .598 | 8.180 | 6.37000 | .26290 | .05115 | .02950 | -.02010 | .00610 | .02800 | .25560 | .08000 | 3.19490 |
| .596 | 8.670 | 6.28000 | .26680 | .05203 | .03100 | -.01860 | .00700 | .03040 | .25950 | .08090 | 3.20757 |
| .598 | 9.110 | 6.40000 | .26830 | .05181 | .02970 | -.01900 | .00780 | .03180 | .26090 | .08139 | 3.20539 |
| .597 | 10.030 | 6.36000 | .26570 | .05307 | .03060 | -.02130 | .00810 | .03310 | .25820 | .08218 | 3.14202 |
| GRADIENT | | -.00005 | .00055 | -.00017 | .00094 | -.00226 | .00079 | .00304 | .00056 | -.00011 | .01244 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) (RUK115) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 BETA = .000 ALPHA = 6.000
 GRIT = 1.000 SPDRBK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 41/0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|---------|--------|---------|---------|---------|--------|---------|---------|
| .597 | -4.960 | 6.37000 | .26580 | .04724 | .02520 | .01750 | -.00440 | -.01950 | .25890 | .07644 | 3.38704 |
| .597 | -3.940 | 6.37000 | .26660 | .04656 | .02860 | .01410 | -.00430 | -.01580 | .25970 | .07585 | 3.42380 |
| .597 | -1.980 | 6.35000 | .27160 | .04489 | .02940 | .01050 | -.00190 | -.00880 | .26500 | .07465 | 3.54971 |
| .597 | -.990 | 6.32000 | .26950 | .04509 | .02740 | .00730 | -.00040 | -.00460 | .26290 | .07448 | 3.52967 |
| .596 | .000 | 6.35000 | .26760 | .04472 | .02940 | .00280 | -.00080 | -.00160 | .26100 | .07404 | 3.52500 |
| .597 | 1.010 | 6.35000 | .26460 | .04454 | .03120 | .00060 | .00070 | .00270 | .25800 | .07353 | 3.50868 |
| .597 | 1.990 | 6.34000 | .26570 | .04496 | .03010 | -.00210 | .00140 | .00640 | .25910 | .07403 | 3.50013 |
| .596 | 4.040 | 6.35000 | .26880 | .04540 | .02910 | -.00800 | .00320 | .01290 | .26210 | .07485 | 3.50161 |
| .596 | 5.030 | 6.32000 | .25770 | .04688 | .03330 | -.01160 | .00350 | .01770 | .25100 | .07496 | 3.34832 |
| .596 | 6.010 | 6.30000 | .24990 | .04879 | .02970 | -.01690 | .00350 | .01970 | .24300 | .07592 | 3.20082 |
| .597 | 7.990 | 6.30000 | .24900 | .05172 | .02880 | -.02410 | .00630 | .02720 | .24180 | .07873 | 3.07120 |
| .596 | 10.010 | 6.32000 | .25870 | .05392 | .02950 | -.02290 | .00780 | .03390 | .25120 | .08207 | 3.06079 |
| | GRADIENT | -.00265 | .00001 | -.00022 | .00042 | -.00285 | .00087 | .00365 | .00004 | -.00023 | -.01109 |

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TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK116) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 BETA = .000 ALPHA = 6.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDELAP = .000

RUN NO. 42/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .596 | -4.970 | 6.36000 | .27590 | .04616 | .02740 | .01890 | -.00430 | -.01940 | .26910 | .07644 | 3.52047 |
| .598 | -3.950 | 6.31000 | .26530 | .04661 | .02810 | .01430 | -.00350 | -.01580 | .25850 | .07549 | 3.42447 |
| .596 | -1.990 | 6.34000 | .28200 | .04438 | .02440 | .00840 | -.00210 | -.00750 | .27540 | .07525 | 3.65983 |
| .597 | -.980 | 6.37000 | .27930 | .04412 | .03030 | .00730 | -.00070 | -.00420 | .27270 | .07484 | 3.64399 |
| .597 | -.010 | 6.35000 | .27130 | .04448 | .03050 | .00510 | -.00050 | -.00140 | .26470 | .07421 | 3.56674 |
| .597 | .990 | 6.32000 | .25950 | .04507 | .02950 | -.00150 | .00040 | .00280 | .25300 | .07336 | 3.44864 |
| .596 | 2.000 | 6.35000 | .26290 | .04518 | .02940 | -.00230 | .00120 | .00640 | .25630 | .07398 | 3.46445 |
| .597 | 4.040 | 6.32000 | .27380 | .04468 | .03080 | -.00560 | .00330 | .01230 | .26720 | .07455 | 3.58423 |
| .597 | 5.010 | 6.31000 | .25310 | .04748 | .03140 | -.01070 | .00390 | .01730 | .24640 | .07501 | 3.28489 |
| .597 | 6.000 | 6.36000 | .27020 | .04702 | .03070 | -.01470 | .00440 | .01940 | .26330 | .07666 | 3.43455 |
| .596 | 8.000 | 6.33000 | .26080 | .05019 | .03020 | -.02210 | .00590 | .02660 | .25360 | .07864 | 3.22489 |
| .598 | 10.000 | 6.35000 | .26850 | .05325 | .02980 | -.02570 | .00730 | .03350 | .26100 | .08267 | 3.15731 |
| GRADIENT | | -.00143 | -.00074 | -.00016 | .00042 | -.00277 | .00082 | .00357 | -.00071 | -.00025 | .00229 |

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) (RUK117) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | ALLRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .597 | -5.020 | 9.87000 | .43230 | .02375 | .02880 | .01850 | -.00560 | -.02250 | .42180 | .09750 | 4.32613 |
| .596 | -4.470 | 9.87000 | .44050 | .02280 | .02730 | .01900 | -.00500 | -.02050 | .43010 | .09797 | 4.39012 |
| .597 | -3.520 | 9.90000 | .44540 | .02176 | .02760 | .01570 | -.00380 | -.01670 | .43500 | .09801 | 4.43818 |
| .597 | -2.640 | 9.88000 | .43650 | .02220 | .02680 | .01150 | -.00320 | -.01280 | .42620 | .09677 | 4.40436 |
| .596 | -2.020 | 9.90000 | .44120 | .02141 | .02740 | .00960 | -.00230 | -.00890 | .43100 | .09695 | 4.44576 |
| .597 | -.770 | 9.94000 | .44730 | .02058 | .02710 | .00710 | -.00130 | -.00570 | .43700 | .09748 | 4.48285 |
| .597 | .140 | 9.90000 | .44780 | .02056 | .02580 | .00250 | -.00050 | -.00170 | .43760 | .09724 | 4.50003 |
| .597 | 1.170 | 9.86000 | .44440 | .02106 | .02890 | .00000 | .00060 | .00260 | .43420 | .09685 | 4.48329 |
| .596 | 2.020 | 9.86000 | .43960 | .02147 | .02750 | -.00450 | .00130 | .00640 | .42940 | .09643 | 4.45295 |
| .598 | 3.010 | 9.88000 | .44130 | .02168 | .02850 | -.00840 | .00210 | .01110 | .43110 | .09708 | 4.44071 |
| .597 | 4.140 | 9.88000 | .43980 | .02296 | .02730 | -.01260 | .00300 | .01470 | .42930 | .09808 | 4.37692 |
| .596 | 5.090 | 9.88000 | .44470 | .02348 | .02710 | -.01560 | .00330 | .01770 | .43410 | .09944 | 4.36563 |
| .596 | 5.580 | 9.87000 | .44130 | .02411 | .02500 | -.01930 | .00390 | .02080 | .43060 | .09940 | 4.33209 |
| .597 | 6.390 | 9.87000 | .44070 | .02505 | .02430 | -.02170 | .00490 | .02440 | .42990 | .10022 | 4.28952 |
| .597 | 6.990 | 9.83000 | .44030 | .02603 | .02610 | -.02350 | .00630 | .02780 | .42940 | .10082 | 4.26915 |
| .597 | 7.980 | 9.88000 | .44320 | .02780 | .02560 | -.02990 | .00740 | .03190 | .43190 | .10343 | 4.17560 |
| .597 | 9.000 | 9.89000 | .44620 | .02855 | .02490 | -.03380 | .00800 | .03510 | .43470 | .10476 | 4.14934 |
| .597 | 9.780 | 9.88000 | .44450 | .02995 | .02520 | -.03440 | .00840 | .03760 | .43270 | .10578 | 4.09074 |
| .597 | 10.000 | 9.86000 | .43610 | .03124 | .02670 | -.03460 | .00870 | .03830 | .42430 | .10546 | 4.02344 |
| | GRADIENT | | -.00006 | -.00002 | .00009 | -.00361 | .00092 | .00411 | -.00005 | -.00004 | .00146 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK117) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 62/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | A1LRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .896 | -5.080 | 10.82000 | .52650 | .07811 | .00990 | .00700 | -.00740 | -.01290 | .50250 | .17556 | 2.86230 |
| .896 | -4.200 | 10.81000 | .52620 | .07779 | .00850 | .01100 | -.00590 | -.01150 | .50220 | .17510 | 2.86808 |
| .896 | -3.620 | 10.82000 | .52700 | .07611 | .01000 | .00520 | -.00490 | -.00970 | .50330 | .17369 | 2.89773 |
| .895 | -2.840 | 10.82000 | .52360 | .07528 | .01330 | .00640 | -.00370 | -.00680 | .50020 | .17223 | 2.90419 |
| .896 | -2.390 | 10.82000 | .51900 | .07543 | .01120 | .00580 | -.00310 | -.00520 | .49560 | .17152 | 2.88950 |
| .896 | -1.300 | 10.82000 | .51400 | .07444 | .01500 | .00010 | -.00150 | -.00250 | .49090 | .16961 | 2.89434 |
| .897 | -.300 | 10.81000 | .52100 | .07474 | .01220 | -.00230 | -.00080 | .00000 | .49770 | .17113 | 2.90834 |
| .895 | .540 | 10.82000 | .52380 | .07456 | .01310 | -.00110 | .00020 | .00170 | .50050 | .17156 | 2.91727 |
| .896 | 1.200 | 10.83000 | .52200 | .07493 | .01360 | -.00510 | .00120 | .00440 | .49860 | .17168 | 2.90429 |
| .896 | 2.300 | 10.86000 | .52830 | .07513 | .01180 | -.00620 | .00240 | .00550 | .50460 | .17332 | 2.91135 |
| .895 | 2.990 | 10.85000 | .52260 | .07628 | .00990 | -.01340 | .00280 | .00870 | .49890 | .17329 | 2.87899 |
| .896 | 3.820 | 10.85000 | .52380 | .07700 | .01070 | -.01280 | .00370 | .01000 | .49990 | .17422 | 2.86931 |
| .897 | 4.890 | 10.87000 | .53110 | .07790 | .01070 | -.01280 | .00490 | .01300 | .50680 | .17666 | 2.86882 |
| .895 | 5.570 | 10.87000 | .53560 | .07854 | .00970 | -.01370 | .00600 | .01470 | .51120 | .17813 | 2.86973 |
| .895 | 6.400 | 10.86000 | .54090 | .08001 | .00760 | -.01420 | .00660 | .01720 | .51610 | .18049 | 2.85947 |
| .897 | 7.050 | 10.85000 | .54580 | .08177 | .00440 | -.02130 | .00540 | .01850 | .52070 | .18305 | 2.84460 |
| .896 | 7.780 | 10.83000 | .54060 | .08305 | .00320 | -.02180 | .00780 | .02050 | .51530 | .18315 | 2.81358 |
| .896 | 8.320 | 10.83000 | .54400 | .08412 | .00220 | -.02310 | .00870 | .02230 | .51850 | .18484 | 2.80518 |
| .895 | 9.120 | 10.84000 | .55280 | .08611 | -.00010 | -.02690 | .00830 | .02440 | .52670 | .18894 | 2.79362 |
| .896 | 10.010 | 10.83000 | .55440 | .08735 | -.00390 | -.02760 | .00960 | .02540 | .52800 | .18996 | 2.77948 |
| | GRADIENT | .00581 | .00044 | .00008 | .00001 | -.00264 | .00116 | .00263 | .00040 | .00021 | -.00123 |

(RUK117) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 177/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .947 | -4.990 | 10.11000 | .54770 | .09745 | -.01420 | .00670 | -.00610 | -.01430 | .52210 | .19208 | 2.71815 |
| .947 | -4.660 | 10.12000 | .54880 | .09633 | -.01520 | .01350 | -.00420 | -.01390 | .52330 | .19126 | 2.73605 |
| .948 | -3.970 | 10.11000 | .54880 | .09585 | -.01510 | .00790 | -.00420 | -.01160 | .52340 | .19070 | 2.74466 |
| .950 | -2.960 | 10.11000 | .54620 | .09566 | -.01580 | .00600 | -.00370 | -.00900 | .52090 | .19005 | 2.74060 |
| .947 | -2.510 | 10.13000 | .54940 | .09397 | -.01640 | .00520 | -.00180 | -.00740 | .52430 | .18913 | 2.77210 |
| .947 | -1.750 | 10.13000 | .54450 | .09322 | -.01540 | .00140 | -.00170 | -.00540 | .51970 | .18753 | 2.77122 |
| .947 | -.590 | 10.14000 | .54970 | .09272 | -.01410 | .00030 | -.00110 | -.00290 | .52480 | .18805 | 2.79077 |
| .949 | .250 | 10.12000 | .55010 | .09303 | -.01580 | -.00110 | -.00070 | -.00090 | .52520 | .18824 | 2.79004 |
| .949 | 1.370 | 10.11000 | .55100 | .09319 | -.01530 | -.00260 | -.00090 | -.00170 | .52610 | .18846 | 2.79150 |
| .949 | 1.850 | 10.10000 | .54360 | .09420 | -.01500 | -.00080 | -.00050 | -.00300 | .51870 | .18807 | 2.75802 |
| .947 | 2.560 | 10.11000 | .54920 | .09310 | -.01540 | -.00670 | -.00080 | -.00470 | .52430 | .18806 | 2.78794 |
| .946 | 3.310 | 10.10000 | .54110 | .09340 | -.01250 | -.00610 | -.00080 | -.00690 | .51630 | .18684 | 2.76327 |
| .949 | 4.040 | 10.13000 | .54480 | .09596 | -.01580 | -.00760 | -.00140 | -.00840 | .51940 | .19028 | 2.72959 |
| .948 | 4.620 | 10.14000 | .54910 | .09638 | -.01490 | -.00910 | -.00160 | -.01050 | .52350 | .19155 | 2.73303 |
| .946 | 5.850 | 10.14000 | .55240 | .09676 | -.01390 | -.00960 | -.00280 | -.01270 | .52670 | .19250 | 2.73609 |
| .949 | 6.460 | 10.13000 | .54930 | .09869 | -.01590 | -.01290 | -.00320 | -.01540 | .52340 | .19376 | 2.70123 |
| .949 | 7.080 | 10.15000 | .54890 | 1.0044 | -.01600 | -.01320 | -.00490 | -.01720 | .53240 | .19736 | 2.69760 |
| .949 | 8.000 | 10.14000 | .55370 | 1.0248 | -.01960 | -.01790 | -.00610 | -.02030 | .52700 | .19836 | 2.65678 |
| .947 | 8.850 | 10.10000 | .55770 | 1.0366 | -.01930 | -.02310 | -.00640 | -.02290 | .53080 | .19986 | 2.65592 |
| .947 | 9.850 | 10.11000 | .56270 | 1.0480 | -.01940 | -.02440 | -.00710 | -.02550 | .53560 | .20195 | 2.65215 |
| | GRADIENT | .00036 | -.00022 | -.00016 | .00003 | -.00196 | .00069 | .00253 | -.00020 | -.00019 | .00177 |



LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 269/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|---------|
| .978 | -4.880 | 9.79000 | .54800 | .12070 | -.01950 | .01020 | -.00610 | -.01520 | .51940 | .21212 | 2.44858 |
| .976 | -4.250 | 9.80000 | .54800 | .11799 | -.01900 | .01180 | -.00420 | -.01260 | .51990 | .20954 | 2.48111 |
| .978 | -3.510 | 9.80000 | .54250 | .11715 | -.01770 | .00860 | -.00330 | -.00970 | .51470 | .20778 | 2.47715 |
| .977 | -2.690 | 9.79000 | .54690 | .11625 | -.01810 | .01130 | -.00130 | -.00750 | .51910 | .20753 | 2.50128 |
| .976 | -1.930 | 9.80000 | .54930 | .11499 | -.02030 | .00660 | -.00120 | -.00610 | .52070 | .20664 | 2.51987 |
| .976 | -1.060 | 9.79000 | .54730 | .11377 | -.01980 | -.00130 | -.00110 | -.00370 | .51990 | .20517 | 2.53394 |
| .977 | -.250 | 9.78000 | .54480 | .11496 | -.02170 | -.00320 | -.00070 | -.00140 | .51730 | .20583 | 2.51321 |
| .976 | .720 | 9.80000 | .54940 | .11401 | -.02230 | -.00290 | -.00020 | .00040 | .52200 | .20586 | 2.53571 |
| .977 | 1.270 | 9.82000 | .54930 | .11488 | -.02070 | -.00160 | .00060 | .00200 | .52170 | .20688 | 2.52173 |
| .977 | 2.210 | 9.80000 | .54480 | .11540 | -.02020 | -.00260 | .00120 | .00470 | .51720 | .20645 | 2.50525 |
| .976 | 3.160 | 9.79000 | .55200 | .11541 | -.02090 | -.00970 | .00120 | .00700 | .52440 | .20759 | 2.52613 |
| .978 | 3.940 | 9.79000 | .55500 | .11702 | -.02130 | -.00470 | .00300 | .00840 | .52700 | .20969 | 2.51327 |
| .977 | 4.670 | 9.78000 | .54700 | .11832 | -.02140 | -.01330 | .00310 | .01070 | .51890 | .20952 | 2.47665 |
| .975 | 5.210 | 9.78000 | .54960 | .11708 | -.02210 | -.00700 | .00540 | .01220 | .52170 | .20874 | 2.49932 |
| .977 | 6.140 | 9.78000 | .54700 | .12080 | -.02120 | -.01120 | .00650 | .01410 | .51850 | .21196 | 2.44621 |
| .978 | 6.640 | 9.78000 | .54800 | .12290 | -.02280 | -.02080 | .00630 | .01690 | .51910 | .21420 | 2.42343 |
| .977 | 7.540 | 9.79000 | .55300 | .12353 | -.02300 | -.01750 | .00630 | .01860 | .52390 | .21576 | 2.42814 |
| .978 | 8.120 | 9.78000 | .55280 | .12607 | -.02530 | -.02120 | .00840 | .02120 | .52330 | .21814 | 2.39892 |
| .976 | 9.010 | 9.79000 | .55710 | .12694 | -.02470 | -.02060 | .00960 | .02320 | .52740 | .21982 | 2.39924 |
| .975 | 9.930 | 9.78000 | .55660 | .12815 | -.02650 | -.02690 | .00960 | .02560 | .52670 | .22083 | 2.38504 |
| | GRADIENT | -.00052 | .00045 | -.00018 | -.00031 | -.00242 | .00081 | .00259 | .00048 | -.00011 | .00358 |

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 10.000
 CRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

(RUK117) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPDDBK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 255/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.048 | -4.880 | 9.77000 | .54970 | .14673 | -.03290 | .00820 | -.00380 | -.01400 | .51680 | .23788 | 2.17250 |
| 1.047 | -4.540 | 9.77000 | .54740 | .14562 | -.03080 | .00540 | -.00330 | -.01220 | .51470 | .23640 | 2.17726 |
| 1.048 | -3.880 | 9.77000 | .54400 | .14506 | -.03120 | .00430 | -.00260 | -.01010 | .51150 | .23527 | 2.17410 |
| 1.047 | -3.180 | 9.78000 | .54820 | .14395 | -.02830 | .00310 | -.00260 | -.00810 | .51580 | .23498 | 2.19510 |
| 1.047 | -2.370 | 9.77000 | .54420 | .14307 | -.02910 | .00020 | -.00140 | -.00660 | .51200 | .23334 | 2.19420 |
| 1.047 | -1.760 | 9.76000 | .53730 | .14289 | -.02890 | .00030 | -.00070 | -.00490 | .50530 | .23191 | 2.17890 |
| 1.047 | -1.100 | 9.77000 | .54360 | .14188 | -.02830 | .00150 | -.00050 | -.00340 | .51160 | .23207 | 2.20453 |
| 1.047 | -.280 | 9.78000 | .54580 | .14162 | -.02730 | .00110 | -.00050 | -.00220 | .51380 | .23227 | 2.21204 |
| 1.047 | .270 | 9.77000 | .54150 | .14129 | -.02840 | -.00430 | -.00020 | -.00100 | .50970 | .23113 | 2.20525 |
| 1.048 | .710 | 9.77000 | .54090 | .14216 | -.02840 | -.00380 | .00010 | .00110 | .50900 | .23189 | 2.19505 |
| 1.046 | 1.500 | 9.77000 | .54500 | .14242 | -.02910 | -.00410 | .00030 | .00230 | .51290 | .23284 | 2.20282 |
| 1.048 | 2.000 | 9.77000 | .54190 | .14253 | -.02920 | -.00770 | .00080 | .00280 | .50980 | .23242 | 2.19344 |
| 1.047 | 2.560 | 9.78000 | .54780 | .14249 | -.02760 | -.00460 | .00130 | .00480 | .51560 | .23347 | 2.20841 |
| 1.047 | 3.480 | 9.77000 | .54340 | .14296 | -.02750 | -.00650 | .00170 | .00640 | .51120 | .23310 | 2.19307 |
| 1.048 | 4.140 | 9.78000 | .55060 | .14471 | -.02950 | -.00680 | .00300 | .00840 | .51800 | .23613 | 2.19366 |
| 1.046 | 4.620 | 9.77000 | .54610 | .14576 | -.02960 | -.00770 | .00310 | .01050 | .51340 | .23632 | 2.17252 |
| 1.047 | 5.800 | 9.76000 | .54100 | .14679 | -.03080 | -.00950 | .00440 | .01260 | .50830 | .23638 | 2.15038 |
| 1.047 | 6.420 | 9.76000 | .54840 | .14781 | -.03200 | -.01590 | .00440 | .01460 | .51540 | .23864 | 2.15977 |
| 1.046 | 7.030 | 9.75000 | .54920 | .14999 | -.03360 | -.01690 | .00550 | .01560 | .51580 | .24083 | 2.14176 |
| 1.048 | 7.730 | 9.75000 | .55040 | .15148 | -.03420 | -.01800 | .00690 | .01670 | .51670 | .24250 | 2.13070 |
| 1.047 | 8.430 | 9.75000 | .55520 | .15297 | -.03630 | -.02030 | .00760 | .02080 | .52120 | .24478 | 2.12923 |
| 1.048 | 9.260 | 9.75000 | .55240 | .15530 | -.03720 | -.02410 | .00860 | .02300 | .51810 | .24661 | 2.10093 |
| 1.045 | 10.030 | 9.75000 | .55840 | .15622 | -.03730 | -.02270 | .00990 | .02410 | .52380 | .24853 | 2.10761 |
| | GRADIENT | .00038 | -.00003 | -.00016 | .00025 | -.00155 | .00066 | .00240 | -.00000 | -.00016 | .00145 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK118) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = .0000 ELEVON = .000
 BETA = .0000 ALPHA = 10.000
 GRIT = 1.0000 SPOBRK = 25.000
 RUDDER = .0000 BDFLAP = .000

RUN NO. 219/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| 1.198 | -5.040 | 9.37000 | .51600 | .14069 | -.04760 | .00370 | -.00140 | -.01290 | .48610 | .22282 | 2.18156 |
| 1.197 | -4.100 | 9.37000 | .51320 | .14015 | -.04520 | -.00690 | -.00230 | -.01020 | .48350 | .22183 | 2.17956 |
| 1.197 | -3.410 | 9.38000 | .52030 | .13870 | -.04580 | .00240 | -.00020 | -.00900 | .49070 | .22164 | 2.21390 |
| 1.197 | -2.500 | 9.37000 | .51380 | .13871 | -.04610 | .00680 | .00030 | -.00670 | .48430 | .22051 | 2.19627 |
| 1.197 | -1.480 | 9.37000 | .51530 | .13845 | -.04430 | .00560 | .00130 | -.00460 | .48580 | .22050 | 2.20319 |
| 1.198 | -.860 | 9.37000 | .51160 | .13819 | -.04460 | .00320 | .00030 | -.00310 | .48230 | .21964 | 2.19587 |
| 1.198 | -.680 | 9.37000 | .51050 | .13810 | -.04390 | -.00700 | -.00110 | -.00160 | .48120 | .21937 | 2.19354 |
| 1.197 | 1.670 | 9.36000 | .50940 | .13854 | -.04570 | -.00690 | -.00110 | .00060 | .48010 | .21954 | 2.18682 |
| 1.196 | 2.120 | 9.38000 | .51690 | .13881 | -.04360 | -.00210 | .00070 | .00190 | .48740 | .22120 | 2.20344 |
| 1.197 | 2.920 | 9.37000 | .51270 | .13905 | -.04540 | -.00140 | .00000 | .00370 | .48320 | .22067 | 2.18972 |
| 1.198 | 3.620 | 9.37000 | .51420 | .13932 | -.04590 | .00070 | .00130 | .00530 | .48470 | .22118 | 2.19145 |
| 1.196 | 4.450 | 9.36000 | .51110 | .14033 | -.04610 | .00150 | .00190 | .00900 | .48140 | .22159 | 2.17252 |
| 1.197 | 5.070 | 9.38000 | .51940 | .14165 | -.04530 | -.00370 | .00120 | .00900 | .48820 | .22332 | 2.18611 |
| 1.198 | 6.210 | 9.37000 | .51770 | .14254 | -.04590 | -.00390 | .00120 | .01100 | .48940 | .22441 | 2.18084 |
| 1.197 | 6.600 | 9.37000 | .52010 | .14308 | -.04640 | -.00640 | .00120 | .01260 | .48760 | .22492 | 2.16784 |
| 1.197 | 7.640 | 9.36000 | .51320 | .14599 | -.05090 | -.00790 | .00140 | .01430 | .48990 | .22585 | 2.16916 |
| 1.197 | 8.400 | 9.37000 | .51690 | .14659 | -.05030 | -.01570 | .00180 | .01750 | .48270 | .22751 | 2.12165 |
| 1.197 | 9.270 | 9.37000 | .52000 | .14853 | -.05130 | -.01650 | .00210 | .02120 | .48620 | .22879 | 2.12509 |
| 1.198 | 10.040 | 9.37000 | .52180 | .14889 | -.05280 | -.00670 | .00530 | .02260 | .48890 | .23121 | 2.11454 |
| GRADIENT | | | -.00011 | .00013 | -.00002 | -.00030 | .00027 | .00224 | -.00013 | .00011 | -.00167 |

(RUK!19) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 115/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CO | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .597 | -4.850 | 14.40000 | .69460 | .00744 | .02540 | .02070 | -.00380 | -.02040 | .67090 | .17995 | 3.72834 |
| .597 | -4.180 | 14.39000 | .69710 | .00686 | .02290 | .01980 | -.00310 | -.01750 | .67350 | .17989 | 3.74398 |
| .596 | -3.250 | 14.42000 | .70130 | .00693 | .02110 | .01360 | -.00280 | -.01330 | .67750 | .18135 | 3.73577 |
| .597 | -2.490 | 14.38000 | .69890 | .00650 | .02020 | .01100 | -.00190 | -.00960 | .67540 | .17987 | 3.75495 |
| .597 | -1.890 | 14.43000 | .70580 | .00595 | .02230 | .00990 | -.00100 | -.00730 | .68210 | .18165 | 3.75512 |
| .596 | -.890 | 14.45000 | .70370 | .00601 | .02330 | .00400 | -.00020 | -.00370 | .67990 | .18142 | 3.74771 |
| .597 | .180 | 14.52000 | .70780 | .00583 | .02200 | .00030 | -.00020 | -.00020 | .68370 | .18310 | 3.73399 |
| .596 | 1.320 | 14.46000 | .70660 | .00582 | .02200 | -.00410 | .00110 | .00440 | .68270 | .18208 | 3.74952 |
| .597 | 2.300 | 14.43000 | .70800 | .00651 | .02050 | -.00870 | .00150 | .00830 | .68410 | .18274 | 3.74365 |
| .596 | 3.410 | 14.41000 | .70210 | .00688 | .02020 | -.00890 | .00340 | .01300 | .67820 | .18139 | 3.73896 |
| .597 | 4.560 | 14.44000 | .70420 | .00804 | .01900 | -.01290 | .00330 | .01750 | .67990 | .18339 | 3.70741 |
| .597 | 5.290 | 14.51000 | .70890 | .00877 | .01760 | -.01670 | .00460 | .02030 | .68410 | .18610 | 3.67589 |
| .597 | 5.890 | 14.46000 | .71640 | .00944 | .01820 | -.01990 | .00470 | .02340 | .69130 | .18803 | 3.67656 |
| .597 | 6.650 | 14.38000 | .69390 | .01045 | .01810 | -.02460 | .00610 | .02740 | .66950 | .18245 | 3.66942 |
| .597 | 7.390 | 14.39000 | .70350 | .01127 | .01790 | -.02730 | .00650 | .03010 | .67860 | .18575 | 3.65328 |
| .597 | 8.220 | 14.40000 | .70740 | .01244 | .01750 | -.02950 | .00730 | .03430 | .68200 | .18797 | 3.62819 |
| .597 | 9.250 | 14.47000 | .71270 | .01402 | .01700 | -.03040 | .00790 | .03730 | .68660 | .19166 | 3.58239 |
| .596 | 9.920 | 14.43000 | .70700 | .01438 | .01970 | -.03380 | .00850 | .03960 | .68080 | .19082 | 3.56773 |
| | GRADIENT | .00492 | .00095 | .00002 | -.00040 | -.00373 | .00078 | -.00396 | .00083 | .00031 | -.00154 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK119) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 83/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .896 | -5.040 | 16.10000 | .80930 | .08290 | -.01000 | .00360 | -.00440 | -.01640 | .75450 | .30408 | 2.48126 |
| .897 | -4.050 | 16.09000 | .80290 | .08097 | -.00880 | .00610 | -.00290 | -.01320 | .74900 | .30032 | 2.48401 |
| .895 | -3.430 | 16.09000 | .80030 | .07921 | -.00650 | .00300 | -.00290 | -.01110 | .74690 | .29791 | 2.50715 |
| .896 | -2.600 | 16.07000 | .79230 | .07958 | -.01120 | .00320 | -.00200 | -.00850 | .73930 | .29579 | 2.49942 |
| .896 | -1.800 | 16.09000 | .79780 | .07806 | -.00630 | .00140 | -.00160 | -.00560 | .74490 | .29611 | 2.51562 |
| .896 | -.860 | 16.08000 | .78950 | .07751 | -.00300 | -.00240 | -.00110 | -.00280 | .73610 | .29288 | 2.51335 |
| .896 | -.070 | 16.08000 | .78920 | .07747 | -.00530 | -.00060 | -.00040 | -.00040 | .73680 | .29303 | 2.51441 |
| .896 | .610 | 16.07000 | .78660 | .07738 | -.00670 | .00000 | .00070 | .00250 | .73440 | .29210 | 2.51424 |
| .896 | 1.560 | 16.08000 | .80030 | .07795 | -.00510 | -.00200 | .00060 | .00460 | .74730 | .29657 | 2.51984 |
| .896 | 1.870 | 16.07000 | .78960 | .07843 | -.00760 | -.00520 | .00080 | .00700 | .73700 | .29394 | 2.50735 |
| .896 | 2.780 | 16.09000 | .80060 | .07948 | -.00860 | -.00780 | .00160 | .00860 | .74710 | .29825 | 2.50494 |
| .896 | 3.520 | 16.08000 | .79560 | .08002 | -.00850 | -.00850 | .00220 | .01160 | .74230 | .29725 | 2.49719 |
| .897 | 4.480 | 16.09000 | .80560 | .08192 | -.01060 | -.01300 | .00220 | .01390 | .75130 | .30198 | 2.48791 |
| .896 | 5.090 | 16.08000 | .80150 | .08312 | -.01260 | -.01070 | .00320 | .01600 | .74710 | .30187 | 2.47493 |
| .896 | 6.160 | 16.09000 | .80750 | .08435 | -.01230 | -.01290 | .00350 | .01800 | .75240 | .30484 | 2.46816 |
| .896 | 6.620 | 16.09000 | .80780 | .08542 | -.01490 | -.00830 | .00430 | .02030 | .75250 | .30595 | 2.45953 |
| .897 | 7.520 | 16.09000 | .81270 | .08941 | -.01680 | -.01250 | .00420 | .02330 | .75640 | .31018 | 2.43865 |
| .895 | 8.420 | 16.09000 | .81460 | .09956 | -.01760 | -.01120 | .00550 | .02460 | .75780 | .31182 | 2.43028 |
| .896 | 9.230 | 16.10000 | .82190 | .09185 | -.01900 | -.01330 | .00550 | .02690 | .76420 | .31617 | 2.41704 |
| .896 | 10.020 | 16.11000 | .82830 | .09362 | -.01960 | -.01940 | .00460 | .02860 | .76970 | .31978 | 2.40695 |
| | GRADIENT | -.00026 | .00017 | .00008 | -.00014 | -.00191 | .00066 | .00322 | .00014 | .00012 | -.00058 |

(RUK119) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 178/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .948 | -4.820 | 14.94000 | .81330 | .09904 | -.03780 | -.00360 | -.00620 | -.01370 | .76020 | .30537 | 2.48946 |
| .948 | -4.140 | 14.95000 | .80300 | .09778 | -.03660 | .00070 | -.00610 | -.01110 | .75640 | .30317 | 2.49495 |
| .946 | -3.380 | 14.95000 | .80810 | .09555 | -.03040 | -.00400 | -.00570 | -.00920 | .75610 | .30079 | 2.51375 |
| .947 | -2.430 | 14.94000 | .80100 | .09564 | -.02980 | -.00020 | -.00500 | -.00700 | .74920 | .29891 | 2.50643 |
| .949 | -1.790 | 14.95000 | .80360 | .09606 | -.03060 | -.00280 | -.00410 | -.00500 | .75350 | .30063 | 2.50637 |
| .949 | -1.240 | 14.95000 | .80290 | .09505 | -.02850 | -.00690 | -.00530 | -.00310 | .75120 | .29896 | 2.51270 |
| .946 | -.700 | 14.94000 | .79530 | .09348 | -.02590 | -.00530 | -.00350 | -.00170 | .74440 | .29535 | 2.52036 |
| .948 | .170 | 14.94000 | .79900 | .09461 | -.02800 | -.00550 | -.00460 | .00030 | .74760 | .29740 | 2.51379 |
| .948 | .910 | 14.94000 | .79910 | .09446 | -.02810 | -.00640 | -.00510 | .00210 | .74770 | .29728 | 2.51513 |
| .947 | 1.360 | 14.94000 | .79730 | .09380 | -.02600 | -.00460 | -.00460 | .00400 | .74620 | .29618 | 2.51942 |
| .946 | 2.490 | 14.93000 | .79370 | .09405 | -.02770 | -.00540 | -.00320 | .00670 | .74260 | .29536 | 2.51420 |
| .948 | 3.400 | 14.95000 | .80500 | .09617 | -.02900 | -.00710 | -.00260 | .00910 | .75300 | .30059 | 2.50511 |
| .949 | 3.990 | 14.96000 | .81360 | .09711 | -.03160 | -.00630 | -.00370 | .01150 | .76100 | .30385 | 2.50457 |
| .949 | 5.060 | 14.96000 | .81750 | .09890 | -.03440 | -.00500 | -.00220 | .01430 | .76420 | .30658 | 2.49265 |
| .947 | 5.860 | 14.93000 | .80510 | .09938 | -.03510 | -.00640 | -.00130 | .01680 | .75230 | .30345 | 2.47916 |
| .947 | 6.620 | 14.95000 | .81330 | .10040 | -.03590 | -.01020 | -.00220 | .01890 | .75990 | .30681 | 2.47675 |
| .949 | 7.200 | 14.91000 | .82310 | .10292 | -.03770 | -.00750 | -.00250 | .02160 | .76890 | .31114 | 2.47121 |
| .948 | 8.100 | 14.90000 | .81880 | .10317 | -.04040 | -.00840 | -.00220 | .02340 | .76470 | .31024 | 2.46486 |
| .947 | 8.810 | 14.94000 | .82510 | .10487 | -.04260 | -.00840 | -.00220 | .02560 | .77010 | .31404 | 2.45222 |
| .948 | 9.930 | 14.91000 | .82710 | .10818 | -.04580 | -.00910 | -.00130 | .02770 | .77130 | .31735 | 2.43043 |
| GRADIENT | | .00012 | -.00073 | -.00025 | .00060 | -.00067 | .00032 | .00277 | -.00063 | -.00042 | .00142 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) (RUK119) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 15.000
 CRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 270/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .975 | -4.980 | 14.76000 | .83950 | .11937 | -.04850 | .00550 | -.00330 | -.01700 | .78130 | .32931 | 2.37253 |
| .977 | -4.660 | 14.77000 | .83100 | .11930 | -.04100 | .00350 | -.00290 | -.01450 | .77310 | .32721 | 2.36268 |
| .977 | -4.100 | 14.76000 | .82460 | .11864 | -.04050 | .00300 | -.00300 | -.01240 | .76710 | .32481 | 2.36170 |
| .977 | -3.180 | 14.77000 | .82530 | .11707 | -.03670 | -.00190 | -.00240 | -.00930 | .76810 | .32360 | 2.37359 |
| .978 | -2.130 | 14.78000 | .82570 | .11708 | -.03480 | .00140 | -.00150 | -.00740 | .76850 | .32385 | 2.37302 |
| .977 | -1.600 | 14.76000 | .81290 | .11662 | -.03380 | .00430 | -.00030 | -.00540 | .75630 | .31987 | 2.36436 |
| .977 | -1.220 | 14.75000 | .80950 | .11492 | -.03220 | .00180 | -.00040 | -.00320 | .75350 | .31723 | 2.37522 |
| .976 | -.390 | 14.76000 | .81400 | .11422 | -.03290 | -.00160 | -.00100 | -.00190 | .75800 | .31783 | 2.38489 |
| .976 | .690 | 14.77000 | .82100 | .11395 | -.02970 | -.00050 | -.00120 | -.00050 | .76490 | .31910 | 2.39703 |
| .978 | 1.180 | 14.76000 | .81790 | .11630 | -.03300 | .00000 | -.00060 | .00200 | .76120 | .32084 | 2.37253 |
| .977 | 2.070 | 14.76000 | .81680 | .11593 | -.03260 | .00360 | -.00000 | .00410 | .76030 | .32020 | 2.37444 |
| .976 | 2.850 | 14.77000 | .81660 | .11577 | -.03310 | -.00110 | -.00080 | .00600 | .76010 | .32013 | 2.37436 |
| .977 | 3.560 | 14.78000 | .82450 | .11746 | -.03340 | -.00620 | -.00120 | .00760 | .76720 | .32391 | 2.36856 |
| .976 | 4.200 | 14.79000 | .83300 | .11760 | -.03670 | -.00310 | -.00010 | .01070 | .77540 | .32635 | 2.37598 |
| .978 | 5.220 | 14.78000 | .83270 | .12063 | -.04010 | -.00410 | .00130 | .01340 | .77430 | .32907 | 2.35301 |
| .978 | 6.130 | 14.78000 | .83420 | .12205 | -.04370 | -.00800 | .00100 | .01590 | .77540 | .33082 | 2.34385 |
| .978 | 7.050 | 14.78000 | .83910 | .12350 | -.04450 | -.00670 | .00250 | .01910 | .77880 | .33322 | 2.33720 |
| .977 | 7.850 | 14.74000 | .83690 | .12413 | -.04680 | -.00390 | .00200 | .02200 | .77760 | .33295 | 2.33545 |
| .976 | 8.510 | 14.73000 | .83660 | .12507 | -.04870 | -.01220 | .00280 | .02420 | .77720 | .33368 | 2.32920 |
| .976 | 9.670 | 14.79000 | .84750 | .12879 | -.05060 | -.01720 | .00260 | .02620 | .78650 | .34087 | 2.30733 |
| .978 | 9.910 | 14.86000 | .84710 | .12999 | -.05130 | -.01160 | .00350 | .02700 | .78570 | .34207 | 2.29693 |
| | GRADIENT | .00146 | -.00081 | -.00027 | .00097 | -.00072 | .00030 | .00277 | -.00072 | -.00044 | .00103 |

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

RN/L = 4.500 ELEVON = .000
BETA = .000 ALPHA = 15.000
GRIT = 1.000 SPOBRK = 25.000
RUDDER = .000 BDFLAP = .000

RUN NO. 256 / 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00 / 5.00

PARAMETRIC DATA

| MACH | AILLRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.046 | -5.110 | 14.73000 | .83630 | .14311 | -.05390 | .00450 | -.00280 | -.01550 | .77240 | .35105 | 2.20027 |
| 1.049 | -4.700 | 14.73000 | .83490 | .14252 | -.05360 | .00270 | -.00230 | -.01370 | .77120 | .35012 | 2.20266 |
| 1.046 | -4.190 | 14.71000 | .82300 | .14223 | -.05150 | .00130 | -.00210 | -.01180 | .75980 | .34655 | 2.19247 |
| 1.047 | -3.550 | 14.72000 | .82010 | .14106 | -.04770 | .00380 | -.00170 | -.00960 | .75730 | .34481 | 2.19626 |
| 1.047 | -2.750 | 14.72000 | .82180 | .14021 | -.04610 | .00500 | -.00070 | -.00810 | .75910 | .34442 | 2.20397 |
| 1.047 | -1.940 | 14.71000 | .81580 | .13959 | -.04540 | .00120 | -.00090 | -.00600 | .75360 | .34217 | 2.20243 |
| 1.047 | -1.440 | 14.71000 | .81150 | .13912 | -.04400 | -.00090 | -.00040 | -.00430 | .74950 | .34062 | 2.20337 |
| 1.048 | -.880 | 14.72000 | .82090 | .13870 | -.04440 | .00250 | -.00040 | -.00300 | .75860 | .34273 | 2.21337 |
| 1.048 | -.020 | 14.72000 | .81620 | .13843 | -.04270 | .00480 | -.00040 | -.00080 | .75420 | .34128 | 2.20992 |
| 1.047 | .850 | 14.72000 | .81180 | .13811 | -.04340 | -.00250 | -.00030 | .00050 | .75330 | .34097 | 2.21170 |
| 1.047 | 1.180 | 14.71000 | .81180 | .13854 | -.04500 | -.00320 | -.00010 | .00200 | .75000 | .34014 | 2.20499 |
| 1.047 | 1.880 | 14.72000 | .82020 | .13881 | -.04570 | -.00640 | -.00010 | .00360 | .75790 | .34266 | 2.21179 |
| 1.047 | 2.510 | 14.71000 | .81840 | .13945 | -.04760 | -.00110 | .00070 | .00580 | .75610 | .34269 | 2.20635 |
| 1.047 | 3.550 | 14.71000 | .82110 | .14044 | -.04870 | -.00080 | .00220 | .00750 | .75840 | .34434 | 2.20250 |
| 1.048 | 3.990 | 14.71000 | .82090 | .14162 | -.05070 | -.00760 | .00140 | .00940 | .75800 | .34543 | 2.19439 |
| 1.047 | 4.460 | 14.72000 | .82630 | .14264 | -.05200 | -.00960 | .00140 | .01150 | .76290 | .34792 | 2.19276 |
| 1.047 | 5.590 | 14.72000 | .82970 | .14382 | -.05250 | -.00150 | .00270 | .01340 | .76590 | .34932 | 2.18877 |
| 1.048 | 6.230 | 14.73000 | .83030 | .14481 | -.05300 | -.00890 | .00260 | .01540 | .76610 | .35117 | 2.18159 |
| 1.047 | 6.890 | 14.73000 | .83250 | .14642 | -.05740 | -.00780 | .00280 | .01690 | .76790 | .35328 | 2.17361 |
| 1.047 | 7.530 | 14.72000 | .83570 | .14762 | -.05700 | -.00900 | .00380 | .01940 | .77070 | .35512 | 2.17024 |
| 1.047 | 8.170 | 14.71000 | .83220 | .14891 | -.06010 | -.01100 | .00360 | .02120 | .76710 | .35535 | 2.15873 |
| 1.046 | 8.840 | 14.72000 | .84210 | .15034 | -.06100 | -.01200 | .00330 | .02280 | .77620 | .35938 | 2.15983 |
| 1.048 | 9.760 | 14.74000 | .85000 | .15229 | -.06230 | -.01670 | .00280 | .02480 | .78320 | .36355 | 2.15433 |
| 1.047 | 10.030 | 14.71000 | .83560 | .15324 | -.06360 | -.01390 | .00530 | .02580 | .76920 | .36040 | 2.13430 |
| | GRADIENT | -.00069 | -.00039 | -.00007 | .00002 | -.00115 | .00040 | .00260 | -.00036 | -.00018 | .00012 |

(RUK120) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 220/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.197 | -4.990 | 14.25000 | .79050 | .13727 | -.07300 | -.00240 | -.00110 | -.01300 | .73230 | .32763 | 2.23514 |
| 1.198 | -4.650 | 14.25000 | .78650 | .13676 | -.06870 | -.00290 | -.00120 | -.01150 | .72860 | .32615 | 2.23393 |
| 1.196 | -4.170 | 14.25000 | .78260 | .13641 | -.06610 | -.00200 | -.00050 | -.01040 | .72500 | .32485 | 2.23178 |
| 1.197 | -3.430 | 14.25000 | .78210 | .13591 | -.06500 | -.00180 | -.00040 | -.00920 | .72460 | .32424 | 2.23473 |
| 1.198 | -2.900 | 14.25000 | .77860 | .13477 | -.06400 | -.00230 | -.00110 | -.00780 | .72150 | .32228 | 2.23875 |
| 1.198 | -1.680 | 14.24000 | .77090 | .13593 | -.06280 | -.00290 | -.00060 | -.00530 | .71430 | .31944 | 2.23607 |
| 1.197 | -1.160 | 14.25000 | .77630 | .13381 | -.06160 | -.00240 | -.00110 | -.00400 | .71950 | .32078 | 2.24296 |
| 1.197 | -.360 | 14.24000 | .77120 | .13373 | -.06160 | -.00240 | -.00170 | -.00180 | .71460 | .31932 | 2.23785 |
| 1.197 | 1.090 | 14.25000 | .77590 | .13336 | -.06070 | -.00280 | -.00050 | -.00000 | .71920 | .32025 | 2.24577 |
| 1.197 | 1.390 | 14.25000 | .77850 | .13383 | -.06190 | -.00000 | -.00100 | -.00140 | .72150 | .32134 | 2.24527 |
| 1.198 | 2.250 | 14.24000 | .77290 | .13429 | -.06310 | -.00490 | -.00000 | -.00300 | .71610 | .32028 | 2.23582 |
| 1.197 | 3.060 | 14.24000 | .77490 | .13514 | -.06350 | -.00320 | -.00040 | -.00490 | .71780 | .32160 | 2.23196 |
| 1.197 | 4.020 | 14.24000 | .77680 | .13604 | -.06420 | -.00690 | -.00040 | -.00670 | .71940 | .32294 | 2.22766 |
| 1.196 | 4.470 | 14.26000 | .78430 | .13655 | -.06310 | -.00290 | -.00060 | -.00840 | .72650 | .32553 | 2.23172 |
| 1.198 | 5.580 | 14.24000 | .77940 | .13831 | -.06760 | -.00460 | -.00090 | -.01000 | .72140 | .32578 | 2.21438 |
| 1.197 | 6.200 | 14.25000 | .78210 | .13904 | -.06760 | -.00460 | -.00090 | -.01200 | .72380 | .32728 | 2.21157 |
| 1.196 | 6.930 | 14.28000 | .79350 | .14004 | -.06970 | -.00660 | -.00060 | -.01350 | .73450 | .33144 | 2.21610 |
| 1.197 | 7.580 | 14.27000 | .78970 | .14158 | -.07260 | -.01070 | -.00060 | -.01560 | .73040 | .33187 | 2.20089 |
| 1.197 | 8.520 | 14.23000 | .78900 | .14296 | -.07530 | -.01460 | -.00090 | -.01860 | .72960 | .33252 | 2.19414 |
| 1.197 | 9.560 | 14.24000 | .79560 | .14442 | -.07580 | -.01410 | -.00100 | -.02080 | .73550 | .33569 | 2.19103 |
| 1.198 | 10.050 | 14.29000 | .79650 | .14541 | -.07770 | -.00750 | -.00220 | -.02210 | .73590 | .33751 | 2.18037 |
| | GRADIENT | -.00035 | -.00083 | -.00012 | .00061 | -.00045 | .00016 | .00216 | -.00078 | -.00033 | -.00015 |

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK121) (24 FEB 77)

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 91 / 0 RN/L = 8.00 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | ALLIRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .580 | -4.930 | 16.50000 | .80960 | .00489 | .01550 | .01400 | -.00580 | -.01900 | .77480 | .23463 | 3.30226 |
| .599 | -3.830 | 16.63000 | .83010 | .00673 | .01490 | .01840 | -.00550 | -.01490 | .79340 | .24401 | 3.25144 |
| .597 | -3.270 | 16.60000 | .82320 | .00595 | .01510 | .01390 | -.00390 | -.01230 | .78910 | .24145 | 3.26814 |
| .599 | -2.700 | 16.68000 | .83320 | .00556 | .01900 | .01460 | -.00350 | -.01020 | .79650 | .24448 | 3.25799 |
| .599 | -2.030 | 16.62000 | .82200 | .00498 | .01830 | .01010 | -.00390 | -.00700 | .78620 | .23988 | 3.27743 |
| .598 | -1.690 | 16.62000 | .81450 | .00534 | .01810 | .01450 | -.00110 | -.00490 | .77890 | .23808 | 3.27155 |
| .598 | -.560 | 16.65000 | .82290 | .00424 | .01920 | .00600 | -.00230 | -.00160 | .78720 | .23984 | 3.28214 |
| .599 | .170 | 16.67000 | .83520 | .00450 | .01820 | .00900 | -.00040 | .00030 | .79880 | .24390 | 3.27517 |
| .599 | .750 | 16.62000 | .81300 | .00429 | .01730 | .00790 | -.00020 | .00280 | .77780 | .23665 | 3.28675 |
| .599 | 1.490 | 16.65000 | .82820 | .00482 | .01590 | -.00170 | -.00100 | .00600 | .79200 | .24192 | 3.27384 |
| .598 | 2.170 | 16.68000 | .82260 | .00527 | .01510 | .00310 | .00160 | .00790 | .78640 | .24116 | 3.26096 |
| .598 | 2.830 | 16.69000 | .82370 | .00533 | .01470 | .00380 | .00160 | .01080 | .78700 | .24152 | 3.25849 |
| .599 | 3.640 | 16.65000 | .82360 | .00575 | .01590 | -.00660 | .00150 | .01350 | .78740 | .24150 | 3.26045 |
| .599 | 4.470 | 16.67000 | .83560 | .00671 | .01590 | -.01030 | .00260 | .01640 | .79850 | .24613 | 3.24426 |
| .598 | 5.210 | 16.64000 | .82470 | .00727 | .01480 | -.01220 | .00370 | .01870 | .78800 | .24312 | 3.24114 |
| .599 | 5.750 | 16.62000 | .82830 | .00784 | .01620 | -.01450 | .00390 | .02190 | .79140 | .24443 | 3.23780 |
| .597 | 6.430 | 16.60000 | .82530 | .00826 | .01610 | -.01730 | .00490 | .02500 | .78850 | .24369 | 3.23561 |
| .599 | 6.710 | 16.62000 | .83300 | .00970 | .01470 | -.02170 | .00530 | .02720 | .79540 | .24755 | 3.21306 |
| .598 | 7.770 | 16.60000 | .82180 | .01045 | .01390 | -.02130 | .00580 | .03000 | .78450 | .24479 | 3.20475 |
| .599 | 8.070 | 16.62000 | .83030 | .01116 | .01680 | -.02180 | .00560 | .03280 | .79240 | .24818 | 3.19286 |
| .598 | 9.020 | 16.61000 | .82760 | .01215 | .01470 | -.02880 | .00650 | .03530 | .78950 | .24822 | 3.18068 |
| .599 | 9.930 | 16.71000 | .83300 | .01430 | .01200 | -.02210 | .00780 | .03720 | .79370 | .25321 | 3.13459 |
| | GRADIENT | .01085 | .00076 | .00001 | -.00010 | -.00264 | .00090 | .00375 | .00068 | .00038 | -.00231 |

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TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 163

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK121) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 54/ 0 RN/L = 7.76 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .900 | -4.270 | 17.08000 | .86000 | .08356 | -.01170 | -.00010 | -.00320 | -.01610 | .79750 | .33246 | 2.39877 |
| .901 | -3.430 | 17.07000 | .85160 | .08247 | -.00970 | .00060 | -.00320 | -.01370 | .78980 | .32882 | 2.40196 |
| .902 | -2.780 | 17.07000 | .85070 | .08172 | -.00990 | -.00100 | -.00300 | -.01130 | .78920 | .32783 | 2.40731 |
| .901 | -1.980 | 17.07000 | .84650 | .08049 | -.00790 | .00330 | -.00120 | -.00930 | .78560 | .32543 | 2.41407 |
| .899 | -1.460 | 17.05000 | .83940 | .07866 | -.00530 | .00030 | -.00110 | -.00610 | .77940 | .32132 | 2.42562 |
| .900 | -1.060 | 17.08000 | .84810 | .07942 | -.00230 | .00210 | -.00100 | -.00510 | .78740 | .32501 | 2.42270 |
| .901 | -.210 | 17.05000 | .83380 | .07655 | -.00070 | -.00570 | -.00130 | -.00200 | .77410 | .31958 | 2.42222 |
| .900 | .500 | 17.05000 | .83410 | .07853 | -.00160 | -.00050 | -.00030 | -.00020 | .77440 | .31964 | 2.42271 |
| .900 | 1.290 | 17.05000 | .83240 | .07865 | -.00030 | -.00310 | -.00020 | .00220 | .77270 | .31927 | 2.42023 |
| .900 | 1.710 | 17.01000 | .83010 | .07867 | -.00190 | -.00610 | -.00040 | .00300 | .77070 | .31806 | 2.42309 |
| .900 | 2.220 | 17.00000 | .83170 | .07928 | -.00360 | -.00230 | .00080 | .00550 | .77220 | .31898 | 2.42083 |
| .901 | 2.780 | 17.05000 | .84340 | .07963 | -.00380 | -.00390 | .00070 | .00740 | .78290 | .32342 | 2.42069 |
| .901 | 3.710 | 17.03000 | .84050 | .08045 | -.00610 | -.00940 | .00050 | .00930 | .78000 | .32308 | 2.41425 |
| .901 | 4.330 | 17.06000 | .85100 | .08071 | -.00720 | -.00450 | .00170 | .01090 | .78990 | .32682 | 2.41693 |
| .901 | 4.780 | 17.04000 | .84740 | .08180 | -.00840 | -.00610 | .00190 | .01340 | .78610 | .32653 | 2.40281 |
| .901 | 5.650 | 17.05000 | .85280 | .08279 | -.01060 | -.01010 | .00110 | .01570 | .79100 | .32920 | 2.40743 |
| .900 | 6.530 | 17.05000 | .85570 | .08321 | -.01100 | -.01210 | .00210 | .01750 | .79370 | .33045 | 2.40188 |
| .901 | 6.860 | 17.09000 | .85960 | .08496 | -.01100 | -.00660 | .00210 | .01820 | .80620 | .33676 | 2.39398 |
| .900 | 7.570 | 17.08000 | .86830 | .08648 | -.01240 | -.00980 | .00300 | .02060 | .80460 | .33769 | 2.38265 |
| .901 | 8.240 | 17.08000 | .85330 | .08839 | -.01460 | -.01220 | .00280 | .02210 | .79460 | .33616 | 2.36373 |
| .900 | 8.800 | 17.04000 | .85920 | .08990 | -.01550 | -.01130 | .00330 | .02390 | .79510 | .33764 | 2.35489 |
| .900 | 9.340 | 17.06000 | .87110 | .09137 | -.01580 | -.00970 | .00320 | .02520 | .80590 | .34291 | 2.35020 |
| .901 | 9.810 | 17.04000 | .86770 | .09292 | -.01850 | -.01050 | .00390 | .02730 | .80230 | .34311 | 2.33831 |
| .901 | 10.710 | 17.04000 | .87140 | .09393 | -.02020 | -.01160 | .00370 | .02780 | .80560 | .34516 | 2.33398 |
| GRADIENT | | | -.00125 | -.00019 | .00046 | -.00092 | .00055 | .00322 | -.00112 | -.00062 | .00112 |

(RUK122) (24 FEB 77)

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 BETA =
 GRIT =
 RUDDER =

4.500 ELEVON = .000
 .000 ALPHA = 20.000
 1.000 SPOBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 116/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|---------|---------|---------|---------|---------|--------|--------|---------|
| .597 | -5.020 | 19.12000 | .99300 | .01599 | -.00030 | .02300 | -.00510 | -.01930 | .93290 | .34036 | 2.74090 |
| .597 | -4.470 | 19.11000 | .98340 | .01520 | .00070 | .02230 | -.00460 | -.01650 | .92420 | .33631 | 2.74805 |
| .597 | -3.700 | 19.10000 | .97860 | .01458 | -.00070 | .01610 | -.00360 | -.01310 | .91990 | .33399 | 2.75425 |
| .597 | -2.670 | 19.10000 | .97510 | .01466 | .00040 | .01370 | -.00250 | -.01050 | .91660 | .33292 | 2.75319 |
| .597 | -1.920 | 19.10000 | .97250 | .01408 | .00130 | .01110 | -.00170 | -.00630 | .91430 | .33152 | 2.75787 |
| .596 | -1.070 | 19.11000 | .98470 | .01282 | .00130 | .00550 | -.00130 | -.00260 | .92620 | .33449 | 2.76901 |
| .596 | .340 | 19.13000 | .98810 | .01316 | -.00040 | .00340 | -.00020 | .00040 | .92920 | .33525 | 2.76345 |
| .597 | 1.040 | 19.14000 | .99440 | .01288 | -.00190 | .00100 | .00000 | .00370 | .93520 | .33821 | 2.76515 |
| .597 | 1.970 | 19.12000 | .99240 | .01342 | -.00240 | -.00390 | .00110 | .00750 | .93320 | .33774 | 2.76309 |
| .597 | 3.150 | 19.11000 | .98630 | .01442 | -.00390 | -.00720 | .00270 | .01130 | .92720 | .33652 | 2.75524 |
| .597 | 4.040 | 19.11000 | .98760 | .01461 | -.00270 | -.01200 | .00320 | .01490 | .92830 | .33713 | 2.75355 |
| .596 | 4.890 | 19.14000 | .99400 | .01492 | -.00240 | -.01400 | .00360 | .01750 | .93410 | .34001 | 2.74731 |
| .597 | 5.460 | 19.11000 | .98200 | .01749 | -.00600 | -.01380 | .00420 | .01960 | .92210 | .33802 | 2.72798 |
| .597 | 6.310 | 19.13000 | .99530 | .01652 | -.00420 | -.01610 | .00500 | .02300 | .93490 | .34178 | 2.73538 |
| .597 | 6.830 | 19.13000 | .99250 | .01750 | -.00400 | -.02060 | .00520 | .02610 | .93200 | .34182 | 2.72657 |
| .597 | 7.890 | 19.12000 | .99710 | .01805 | -.00180 | -.02170 | .00630 | .02830 | .93610 | .34365 | 2.72398 |
| .597 | 8.440 | 19.12000 | .98780 | .02000 | -.00210 | -.02780 | .00650 | .03220 | .92670 | .34245 | 2.70610 |
| .597 | 9.370 | 19.12000 | .98910 | .02136 | -.00320 | -.03250 | .00720 | .03460 | .92750 | .34416 | 2.69497 |
| .596 | 9.960 | 19.11000 | .97430 | .02230 | -.00010 | -.03230 | .00770 | .03690 | .91320 | .34004 | 2.68557 |
| | GRADIENT | .00277 | .00164 | -.00003 | -.00045 | -.00371 | .00086 | .00362 | .00154 | .00056 | .00001 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK122) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.8800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 20.000
 CRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 85/ 0 RN/L = 4.44 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|--------|--------|---------|---------|---------|--------|--------|---------|
| .896 | -5.040 | 21.68000 | 1.03830 | .08825 | .01220 | -.00110 | -.00020 | -.01270 | .93220 | .46558 | 2.00224 |
| .896 | -3.910 | 21.36000 | 1.02890 | .08448 | .01000 | -.00390 | -.00050 | -.01020 | .92750 | .45343 | 2.04552 |
| .896 | -3.470 | 21.54000 | 1.03310 | .08444 | .01640 | .00070 | -.00040 | -.00870 | .92980 | .45785 | 2.03081 |
| .896 | -2.320 | 21.50000 | 1.02930 | .08314 | .01320 | .00060 | -.00170 | -.00740 | .92710 | .45459 | 2.03940 |
| .897 | -1.780 | 21.50000 | 1.03660 | .08145 | .01420 | .00480 | -.00050 | -.00600 | .93460 | .45570 | 2.05092 |
| .896 | -1.560 | 21.50000 | 1.03640 | .08093 | .01520 | .00140 | -.00150 | -.00340 | .93460 | .45514 | 2.05343 |
| .896 | -.240 | 21.50000 | 1.03500 | .08035 | .01450 | .00240 | -.00050 | -.00040 | .93350 | .45409 | 2.05577 |
| .896 | .570 | 21.48000 | 1.02880 | .08083 | .01190 | .00580 | -.00070 | -.00040 | .92760 | .45194 | 2.05249 |
| .896 | 1.220 | 21.50000 | 1.03360 | .08019 | .01530 | .00720 | -.00040 | -.00370 | .93230 | .45343 | 2.05612 |
| .896 | 2.120 | 21.49000 | 1.03160 | .08179 | .01600 | -.00180 | -.00170 | -.00630 | .92980 | .45402 | 2.04793 |
| .896 | 2.700 | 21.50000 | 1.03610 | .08258 | .01550 | .00340 | -.00240 | -.00640 | .93370 | .45657 | 2.04505 |
| .896 | 3.590 | 21.50000 | 1.03600 | .08301 | .01670 | .00430 | -.00220 | -.00310 | .93340 | .45693 | 2.04277 |
| .896 | 4.360 | 21.50000 | 1.03560 | .08460 | .01430 | .00600 | -.00050 | -.01080 | .93260 | .45826 | 2.03508 |
| .897 | 4.950 | 21.50000 | 1.03770 | .08609 | .01480 | .01030 | -.00040 | -.01300 | .93380 | .46042 | 2.02816 |
| .896 | 6.190 | 21.48000 | 1.02760 | .08746 | .01380 | .01320 | -.00210 | -.01400 | .92420 | .45767 | 2.01937 |
| .896 | 6.840 | 21.49000 | 1.03390 | .08881 | .01200 | .00910 | -.00070 | -.01670 | .92950 | .46139 | 2.01455 |
| .896 | 7.410 | 21.49000 | 1.03290 | .09098 | .01290 | .01090 | -.00310 | -.01640 | .92770 | .46305 | 2.00347 |
| .896 | 8.370 | 21.50000 | 1.03460 | .09316 | .01430 | .01420 | -.00420 | -.01740 | .92850 | .46586 | 1.99309 |
| .897 | 8.820 | 21.50000 | 1.03320 | .09519 | .01570 | .01620 | -.00420 | -.01940 | .92640 | .46724 | 1.98273 |
| .897 | 9.880 | 21.50000 | 1.03520 | .09697 | .01690 | .01900 | -.00460 | -.01950 | .92760 | .46962 | 1.97519 |
| | GRADIENT | .00416 | .00054 | .00011 | .00026 | .00086 | -.00005 | .00259 | .00042 | .00037 | -.00072 |

(RUK122) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 BETA =
 GRIT =
 RUDDER =

4.500 ELEVON = .000
 .000 ALPHA = 20.000
 1.000 SPOBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 179/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|--------|---------|---------|---------|---------|---------|---------|---------|
| .949 | -5.080 | 19.87000 | 1.07070 | .09883 | -.04060 | .00130 | .00140 | -.01430 | .97340 | .45686 | 2.13061 |
| .947 | -4.140 | 19.79000 | 1.05600 | .09619 | -.03780 | .00160 | .00060 | -.01140 | .96100 | .44804 | 2.14488 |
| .947 | -3.470 | 19.78000 | 1.04830 | .09458 | -.03630 | -.00170 | -.00040 | -.00950 | .95440 | .44375 | 2.15074 |
| .948 | -2.540 | 19.78000 | 1.04910 | .09502 | -.03560 | .00530 | -.00010 | -.00750 | .95500 | .44444 | 2.14878 |
| .948 | -1.840 | 19.80000 | 1.05450 | .09355 | -.03000 | .00100 | -.00090 | -.00550 | .96040 | .44522 | 2.15714 |
| .947 | -1.190 | 19.78000 | 1.04190 | .09303 | -.02900 | .00350 | .00000 | -.00360 | .94890 | .44013 | 2.15595 |
| .948 | -.400 | 19.80000 | 1.04760 | .09312 | -.02710 | -.00440 | -.00170 | -.00090 | .95410 | .44248 | 2.15627 |
| .948 | .630 | 19.79000 | 1.04660 | .09378 | -.02960 | .00180 | -.00060 | .00100 | .95300 | .44259 | 2.15322 |
| .947 | 1.240 | 19.79000 | 1.04320 | .09330 | -.02690 | -.00340 | -.00060 | .00300 | .94990 | .44099 | 2.15402 |
| .947 | 2.050 | 19.79000 | 1.04440 | .09322 | -.02680 | .00160 | .00050 | .00590 | .95110 | .44132 | 2.15512 |
| .947 | 2.970 | 19.79000 | 1.04740 | .09380 | -.02750 | .00030 | .00010 | .00810 | .95370 | .44288 | 2.15339 |
| .948 | 3.790 | 19.79000 | 1.04970 | .09520 | -.03350 | .00170 | .00030 | .00980 | .95540 | .44498 | 2.14707 |
| .948 | 4.550 | 19.79000 | 1.05350 | .09696 | -.03360 | .00350 | -.00090 | .01150 | .95840 | .44792 | 2.13966 |
| .948 | 5.620 | 19.85000 | 1.05910 | .09870 | -.03800 | .00220 | -.00140 | .01330 | .96270 | .45246 | 2.12769 |
| .947 | 6.470 | 19.85000 | 1.05930 | .10015 | -.03450 | .00040 | -.00160 | .01520 | .96230 | .45389 | 2.12010 |
| .946 | 7.060 | 19.79000 | 1.05400 | .10062 | -.03370 | .00840 | -.00100 | .01700 | .95760 | .45153 | 2.12077 |
| .948 | 7.890 | 19.82000 | 1.05340 | .10371 | -.03780 | .00300 | .00210 | .01870 | .95580 | .45474 | 2.10187 |
| .948 | 8.540 | 19.79000 | 1.05670 | .10514 | -.03710 | .00420 | -.00180 | .02050 | .95860 | .45670 | 2.09897 |
| .946 | 9.410 | 19.79000 | 1.05680 | .10748 | -.03550 | .00420 | -.00180 | .02200 | .95790 | .45694 | 2.08722 |
| .947 | 9.980 | 19.81000 | 1.06270 | .10848 | -.03570 | .01110 | -.00060 | .02310 | .96300 | .46221 | 2.08346 |
| | GRADIENT | .00056 | -.00030 | .00003 | .00062 | .00004 | -.00001 | .00270 | -.00030 | -.00005 | -.00037 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 271/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .977 | -5.250 | 19.46000 | 1.08970 | .12044 | -.06210 | .00250 | .00070 | -.01630 | .98730 | .47659 | 2.07158 |
| .977 | -4.660 | 19.50000 | 1.08950 | .11925 | -.06210 | -.00350 | -.00010 | -.01380 | .98720 | .47609 | 2.07355 |
| .978 | -3.820 | 19.48000 | 1.08040 | .11769 | -.05780 | .00260 | -.00040 | -.01260 | .97930 | .47124 | 2.07812 |
| .977 | -3.150 | 19.49000 | 1.09010 | .11717 | -.05640 | .00180 | -.00030 | -.00880 | .98950 | .47416 | 2.08474 |
| .977 | -2.060 | 19.49000 | 1.08630 | .11577 | -.05560 | .00300 | .00040 | -.00660 | .98540 | .47157 | 2.08961 |
| .976 | -1.530 | 19.49000 | 1.08480 | .11419 | -.05190 | .00040 | -.00010 | -.00410 | .98450 | .46958 | 2.09655 |
| .977 | -.540 | 19.48000 | 1.07980 | .11470 | -.05150 | -.00430 | -.00050 | -.00170 | .97970 | .46822 | 2.09238 |
| .977 | .540 | 19.49000 | 1.06860 | .11538 | -.05260 | -.00230 | -.00040 | .00000 | .96880 | .46530 | 2.08210 |
| .978 | 1.270 | 19.51000 | 1.08410 | .11526 | -.05380 | -.00400 | .00030 | .00400 | .98340 | .47070 | 2.08923 |
| .977 | 2.270 | 19.52000 | 1.08990 | .11451 | -.05290 | -.00170 | .00140 | .00690 | .98900 | .47210 | 2.09488 |
| .978 | 3.390 | 19.47000 | 1.08840 | .11519 | -.05610 | -.00690 | .00060 | .00930 | .98770 | .47138 | 2.09533 |
| .978 | 3.950 | 19.48000 | 1.08770 | .11709 | -.06020 | -.00550 | .00130 | .01170 | .98630 | .47311 | 2.08471 |
| .977 | 4.340 | 19.50000 | 1.09420 | .11642 | -.05920 | -.00550 | .00110 | .01340 | .99250 | .47499 | 2.08950 |
| .977 | 5.500 | 19.50000 | 1.09160 | .11752 | -.06120 | -.00680 | .00060 | .01540 | .98970 | .47526 | 2.08245 |
| .979 | 6.170 | 19.50000 | 1.09320 | .12006 | -.06330 | -.00760 | .00050 | .01690 | .99040 | .47809 | 2.07157 |
| .978 | 6.760 | 19.50000 | 1.09870 | .12209 | -.06850 | -.00410 | .00110 | .01930 | .99490 | .48184 | 2.06479 |
| .976 | 7.450 | 19.51000 | 1.10540 | .12143 | -.06470 | -.00550 | .00010 | .02140 | 1.00130 | .48363 | 2.07039 |
| .977 | 8.220 | 19.52000 | 1.10900 | .12409 | -.06460 | -.00700 | .00040 | .02300 | 1.00380 | .48751 | 2.05902 |
| .979 | 9.070 | 19.52000 | 1.11070 | .12834 | -.06900 | -.00950 | .00000 | .02540 | 1.00400 | .49209 | 2.04028 |
| .979 | 9.980 | 19.52000 | 1.11450 | .13029 | -.07050 | -.00680 | .00080 | .02740 | 1.00690 | .49520 | 2.03334 |
| | GRADIENT | .00025 | .00042 | -.00021 | .00007 | -.00078 | .00015 | .00299 | .00046 | -.00006 | .00122 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK122) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 257/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.046 | -5.070 | 19.19000 | 1.09900 | .14339 | -.08450 | .00170 | .00040 | -.01520 | .99080 | .49667 | 1.99490 |
| 1.046 | -4.840 | 19.19000 | 1.09800 | .14250 | -.08180 | .00160 | .00000 | -.01400 | .99010 | .49550 | 1.99820 |
| 1.048 | -4.570 | 19.17000 | 1.09050 | .14177 | -.08020 | -.00090 | .00010 | -.01330 | .98340 | .49200 | 1.99879 |
| 1.045 | -4.240 | 19.18000 | 1.08860 | .14064 | -.07410 | .00300 | .00000 | -.01190 | .98200 | .49048 | 2.00213 |
| 1.049 | -3.840 | 19.17000 | 1.08060 | .14090 | -.07310 | -.00450 | -.00120 | -.01070 | .97440 | .48793 | 1.99702 |
| 1.047 | -3.010 | 19.18000 | 1.08190 | .13962 | -.06970 | .00000 | -.00050 | -.00830 | .97600 | .48731 | 2.00282 |
| 1.047 | -2.420 | 19.17000 | 1.07930 | .13916 | -.06870 | -.00520 | -.00150 | -.00640 | .97370 | .48586 | 2.00409 |
| 1.047 | -1.440 | 19.17000 | 1.07800 | .13877 | -.06840 | .00000 | -.00050 | -.00480 | .97260 | .48506 | 2.00511 |
| 1.048 | -.860 | 19.17000 | 1.07660 | .13797 | -.06870 | .00490 | .00090 | -.00330 | .97150 | .48304 | 2.00788 |
| 1.047 | -.120 | 19.17000 | 1.07580 | .13849 | -.06930 | .00000 | -.00020 | -.00140 | .97060 | .48407 | 2.00507 |
| 1.046 | .630 | 19.17000 | 1.07690 | .13852 | -.06930 | .00060 | -.00070 | .00040 | .97170 | .48446 | 2.00573 |
| 1.048 | 1.420 | 19.18000 | 1.08350 | .13830 | -.06860 | -.00310 | -.00170 | .00230 | .97790 | .48659 | 2.00969 |
| 1.046 | 2.210 | 19.16000 | 1.07620 | .13954 | -.07080 | .00270 | -.00060 | .00410 | .97070 | .48503 | 2.00133 |
| 1.047 | 2.840 | 19.16000 | 1.07790 | .14083 | -.07380 | .00090 | .00080 | .00590 | .97190 | .48680 | 1.99649 |
| 1.047 | 3.530 | 19.17000 | 1.08330 | .14116 | -.07500 | .00360 | -.00060 | .00780 | .97680 | .48906 | 1.99731 |
| 1.047 | 4.280 | 19.18000 | 1.08900 | .14208 | -.07660 | -.00430 | -.00260 | .01030 | .98180 | .49197 | 1.99565 |
| 1.047 | 5.120 | 19.18000 | 1.09300 | .14349 | -.07820 | .00070 | -.00090 | .01380 | .98320 | .49462 | 1.99185 |
| 1.046 | 5.770 | 19.17000 | 1.09120 | .14465 | -.08040 | -.00120 | -.00160 | .01560 | .98500 | .49495 | 1.98647 |
| 1.047 | 6.740 | 19.17000 | 1.09370 | .14620 | -.08210 | -.00260 | -.00190 | .01760 | .98500 | .49723 | 1.98096 |
| 1.047 | 7.350 | 19.20000 | 1.10090 | .14624 | -.08100 | -.00200 | -.00200 | .01940 | .99150 | .50012 | 1.98252 |
| 1.048 | 8.110 | 19.19000 | 1.09870 | .14665 | -.08280 | .00160 | -.00060 | .02120 | .98940 | .5012 | 1.97303 |
| 1.046 | 8.780 | 19.22000 | 1.10080 | .14799 | -.08480 | -.00170 | -.00190 | .02270 | .99070 | .50212 | 1.98020 |
| 1.049 | 9.320 | 19.24000 | 1.10630 | .14924 | -.08690 | -.00410 | -.00230 | .02590 | .99530 | .50546 | 1.96910 |
| 1.047 | 10.030 | 14.72000 | .84280 | .15362 | -.08240 | -.01360 | .00470 | .02590 | .77600 | .36273 | 2.13933 |
| | GRADIENT | -.00101 | -.00081 | -.00006 | .00032 | .00066 | -.00013 | .00255 | -.00074 | -.00034 | -.00011 |

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK123) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 221/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.198 | -5.000 | 18.87000 | 1.02960 | .13708 | -.09140 | -.00420 | -.01140 | -.01390 | .92990 | .46271 | 2.00969 |
| 1.197 | -4.650 | 18.87000 | 1.02950 | .13636 | -.08900 | .00330 | .00010 | -.01320 | .93000 | .46199 | 2.01301 |
| 1.197 | -4.240 | 18.86000 | 1.02620 | .13618 | -.09170 | .00090 | -.00010 | -.01190 | .92700 | .46059 | 2.01261 |
| 1.199 | -3.500 | 18.86000 | 1.02210 | .13538 | -.08800 | -.00010 | .00000 | -.00960 | .92340 | .45851 | 2.01390 |
| 1.197 | -2.660 | 18.87000 | 1.02420 | .13476 | -.08590 | -.00030 | -.00070 | -.00800 | .92560 | .45877 | 2.01759 |
| 1.197 | -1.930 | 18.87000 | 1.02260 | .13466 | -.08540 | .00290 | -.00010 | -.00630 | .92400 | .45815 | 2.01679 |
| 1.198 | -1.200 | 18.86000 | 1.01930 | .13435 | -.08550 | .00170 | -.00010 | -.00450 | .92110 | .45663 | 2.01716 |
| 1.198 | -.400 | 18.87000 | 1.01960 | .13389 | -.08480 | -.00390 | -.00070 | -.00280 | .92150 | .45646 | 2.01882 |
| 1.197 | -.310 | 18.87000 | 1.02090 | .13400 | -.08550 | -.00110 | -.00050 | -.00090 | .92270 | .45698 | 2.01913 |
| 1.197 | .950 | 18.86000 | 1.02040 | .13401 | -.08570 | -.00190 | -.00020 | .00050 | .92230 | .45667 | 2.01964 |
| 1.198 | 1.920 | 18.87000 | 1.02040 | .13366 | -.08510 | -.00130 | -.00030 | .00210 | .92230 | .45650 | 2.02039 |
| 1.198 | 2.330 | 18.87000 | 1.02420 | .13387 | -.08470 | -.00390 | -.00120 | .00390 | .92580 | .45792 | 2.02173 |
| 1.197 | 3.420 | 18.87000 | 1.02130 | .13416 | -.08580 | -.00130 | -.00050 | .00560 | .92290 | .45726 | 2.01832 |
| 1.197 | 4.070 | 18.87000 | 1.02100 | .13432 | -.08590 | -.00470 | -.00120 | .00700 | .92270 | .45731 | 2.01765 |
| 1.198 | 4.600 | 18.86000 | 1.02310 | .13543 | -.08370 | -.00430 | -.00020 | .00980 | .92430 | .45888 | 2.01424 |
| 1.197 | 5.500 | 18.87000 | 1.02730 | .13512 | -.08870 | .00530 | .00100 | .01040 | .92800 | .46106 | 2.01277 |
| 1.196 | 6.380 | 18.87000 | 1.02740 | .13682 | -.09150 | -.00230 | -.00050 | .01210 | .92790 | .46175 | 2.00953 |
| 1.198 | 6.870 | 18.87000 | 1.03050 | .13763 | -.09150 | .00240 | .00080 | .01390 | .93060 | .46355 | 2.00754 |
| 1.198 | 7.600 | 18.86000 | 1.02720 | .13857 | -.09450 | -.00210 | -.00020 | .01530 | .92720 | .46318 | 2.00181 |
| 1.197 | 8.120 | 18.87000 | 1.03440 | .14032 | -.09690 | -.00550 | -.00110 | .01710 | .93340 | .46733 | 1.99732 |
| 1.198 | 8.950 | 18.86000 | 1.03710 | .14157 | -.09490 | -.00080 | -.00090 | .01860 | .93540 | .46955 | 1.99214 |
| 1.198 | 9.800 | 18.88000 | 1.03030 | .14331 | -.09790 | -.00500 | -.00120 | .02040 | .93600 | .47158 | 1.98482 |
| 1.197 | 10.040 | 18.88000 | 1.03710 | .14355 | -.09480 | -.00270 | -.00100 | .02090 | .93480 | .47142 | 1.98295 |
| | GRADIENT | .00010 | -.00061 | -.00022 | .00038 | -.00045 | -.00003 | .00231 | -.00051 | -.00040 | .00065 |

(RUK124) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 BETA =
 GRIT =
 RUDDER =

4.500 ELEVON = 5.000
 .000 ALPHA = .000
 1.000 SPOBRK = 25.000
 .000 BOFLAP = .000

RUN NO. 102/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|--------|---------|---------|---------|---------|---------|--------|---------|--------|
| .896 | -4.950 | .09000 | .00720 | .08316 | .01000 | .00910 | -.00220 | -.01150 | .00710 | .08317 | .08537 |
| .897 | -4.390 | .08000 | .00590 | .08326 | .00850 | .00580 | -.00230 | -.01000 | .00580 | .08327 | .06955 |
| .896 | -3.600 | .09000 | .00840 | .08219 | .00650 | .00490 | -.00140 | -.00810 | .00830 | .08220 | .10097 |
| .896 | -2.940 | .08000 | .00880 | .08158 | .00570 | .00170 | -.00090 | -.00600 | .00860 | .08159 | .10540 |
| .897 | -2.120 | .09000 | .01240 | .08151 | .00480 | .00080 | -.00060 | -.00420 | .01230 | .08153 | .15087 |
| .896 | -1.310 | .09000 | .01820 | .08057 | .00310 | .00000 | -.00000 | -.00290 | .01800 | .08060 | .22333 |
| .896 | -.140 | .09000 | .01640 | .08058 | .00180 | -.00320 | .00060 | -.00110 | .01620 | .08061 | .20098 |
| .896 | .780 | .09000 | .01630 | .08069 | .00130 | -.00510 | .00100 | -.00060 | .01610 | .08072 | .19947 |
| .896 | 1.460 | .09000 | .01670 | .08075 | .00280 | -.00590 | .00170 | .00250 | .01660 | .08078 | .20551 |
| .896 | 2.420 | .09000 | .01520 | .08162 | .00260 | -.00680 | .00230 | .00450 | .01510 | .08164 | .18495 |
| .896 | 3.280 | .09000 | .01770 | .08206 | .00380 | -.00970 | .00260 | .00630 | .01750 | .08209 | .21319 |
| .896 | 3.860 | .08000 | .01000 | .08298 | .00410 | -.01040 | .00330 | .00830 | .00990 | .08299 | .11929 |
| .896 | 4.450 | .09000 | .01050 | .08334 | .00820 | -.01220 | .00360 | .01010 | .01030 | .08336 | .12357 |
| .896 | 5.470 | .09000 | .01090 | .08465 | .00770 | -.01420 | .00450 | .01240 | .01070 | .08467 | .12538 |
| .896 | 6.390 | .09000 | .00770 | .08539 | .00840 | -.01860 | .00510 | .01560 | .00760 | .08540 | .08796 |
| .897 | 7.220 | .08000 | .00840 | .08846 | .00850 | -.01930 | .00560 | .01810 | .00830 | .08847 | .09382 |
| .896 | 7.860 | .08000 | .00600 | .08990 | .00830 | -.02190 | .00580 | .02080 | .00580 | .08991 | .06451 |
| .896 | 8.730 | .08000 | .00240 | .09176 | .00900 | -.02410 | .00660 | .02310 | .00230 | .09176 | .02506 |
| .896 | 9.160 | .09000 | .00920 | .09431 | .00890 | -.02520 | .00700 | .02620 | .00900 | .09432 | .09542 |
| .897 | 9.940 | .08000 | .00460 | .09643 | .01040 | -.02720 | .00750 | .02850 | .00440 | .09644 | .04563 |
| | GRADIENT | .00022 | .00070 | -.00001 | -.00040 | -.00206 | .00062 | .00216 | .00070 | -.00001 | .00848 |

PARAMETRIC DATA

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T1B-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK125) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 5.000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 103/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|--------|---------|---------|---------|---------|---------|--------|---------|---------|
| .895 | -4.960 | 4.93000 | .29260 | .08183 | -.01510 | .01250 | -.00450 | -.01540 | .28450 | .10667 | 2.66703 |
| .896 | -4.330 | 4.93000 | .29610 | .08097 | -.01530 | .01250 | -.00370 | -.01380 | .28800 | .10612 | 2.71399 |
| .896 | -3.430 | 4.93000 | .29360 | .08012 | -.01610 | .00930 | -.00290 | -.01180 | .28560 | .10506 | 2.71897 |
| .896 | -2.820 | 4.93000 | .29110 | .07905 | -.01580 | .00560 | -.00230 | -.00930 | .28320 | .10377 | 2.72900 |
| .897 | -2.030 | 4.92000 | .29020 | .07939 | -.01770 | .00240 | -.00160 | -.00700 | .28230 | .10399 | 2.71478 |
| .896 | -1.020 | 4.93000 | .29510 | .07823 | -.01740 | .00110 | -.00040 | -.00380 | .28730 | .10330 | 2.78119 |
| .896 | .040 | 4.93000 | .29580 | .07758 | -.01760 | .00140 | .00050 | -.00080 | .28810 | .10271 | 2.80489 |
| .896 | .890 | 4.95000 | .30140 | .07749 | -.01710 | -.00420 | .00140 | .00220 | .29360 | .10321 | 2.84475 |
| .897 | 1.520 | 4.93000 | .29470 | .07865 | -.01840 | -.00920 | .00230 | .00560 | .28690 | .10369 | 2.76703 |
| .896 | 2.100 | 4.93000 | .29310 | .07903 | -.01710 | -.01080 | .00250 | .00780 | .28520 | .10393 | 2.74425 |
| .896 | 3.260 | 4.94000 | .29760 | .07989 | -.01750 | -.01320 | .00350 | .01000 | .28960 | .10522 | 2.75232 |
| .896 | 3.660 | 4.89000 | .29400 | .08093 | -.01800 | -.01610 | .00360 | .01240 | .28610 | .10570 | 2.70680 |
| .896 | 4.320 | 4.93000 | .29470 | .08213 | -.01880 | -.01890 | .00450 | .01470 | .28650 | .10715 | 2.67377 |
| .896 | 5.470 | 4.93000 | .30040 | .08308 | -.01860 | -.01840 | .00560 | .01690 | .29220 | .10859 | 2.69089 |
| .896 | 6.210 | 4.94000 | .30100 | .08408 | -.01920 | -.02080 | .00630 | .01890 | .29260 | .10969 | 2.66758 |
| .896 | 7.040 | 4.94000 | .30250 | .08543 | -.02090 | -.02250 | .00630 | .02060 | .29400 | .11116 | 2.64480 |
| .897 | 7.640 | 4.94000 | .30490 | .08757 | -.02110 | -.02320 | .00660 | .02260 | .29620 | .11350 | 2.60968 |
| .895 | 8.610 | 4.94000 | .30420 | .08907 | -.02290 | -.02470 | .00660 | .02450 | .29540 | .11493 | 2.57016 |
| .895 | 9.050 | 4.94000 | .30870 | .09093 | -.02330 | -.02670 | .00720 | .02720 | .29870 | .11718 | 2.55771 |
| .897 | 9.890 | 4.94000 | .30650 | .09377 | -.02470 | -.02880 | .00750 | .02960 | .29730 | .11982 | 2.48132 |
| GRADIENT | | -.00068 | .00031 | -.00003 | -.00032 | -.00340 | .00096 | .00329 | .00031 | -.00000 | .00311 |

(RUK126) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 5.000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 104/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|--------|---------|---------|---------|---------|---------|---------|---------|
| .896 | -4.970 | 10.02000 | .55860 | .07934 | -.02950 | .01220 | -.00400 | -.01810 | .53630 | .17532 | 3.05895 |
| .897 | -4.390 | 9.98000 | .55360 | .07894 | -.02820 | .01110 | -.00380 | -.01660 | .53150 | .17369 | 3.06011 |
| .896 | -3.400 | 9.97000 | .55170 | .07763 | -.02730 | .00790 | -.00370 | -.01400 | .52990 | .17197 | 3.08126 |
| .895 | -2.860 | 9.96000 | .54730 | .07667 | -.02720 | .00630 | -.00300 | -.01150 | .52580 | .17018 | 3.08975 |
| .897 | -2.080 | 9.98000 | .54940 | .07631 | -.02690 | .00410 | -.00250 | -.00900 | .52790 | .17037 | 3.09857 |
| .896 | -1.540 | 9.98000 | .55000 | .07562 | -.02730 | .00280 | -.00180 | -.00700 | .52860 | .16979 | 3.11320 |
| .896 | -.860 | 9.97000 | .54740 | .07547 | -.02630 | .00110 | -.00160 | -.00440 | .52610 | .16910 | 3.11112 |
| .896 | .280 | 9.98000 | .54670 | .07513 | -.02730 | -.00140 | -.00060 | -.00120 | .52540 | .16874 | 3.11369 |
| .895 | 1.020 | 9.99000 | .55040 | .07536 | -.02720 | -.00320 | .00000 | .00170 | .52900 | .16970 | 3.11729 |
| .896 | 1.740 | 9.97000 | .54760 | .07657 | -.02870 | -.00650 | .00070 | .00590 | .52600 | .17022 | 3.09010 |
| .896 | 2.400 | 9.97000 | .54450 | .07745 | -.02920 | -.00960 | .00130 | .00960 | .52290 | .17055 | 3.06594 |
| .896 | 3.310 | 9.97000 | .54790 | .07823 | -.02760 | -.00970 | .00180 | .01130 | .52610 | .17191 | 3.06036 |
| .897 | 3.640 | 9.97000 | .54910 | .07948 | -.02870 | -.00980 | .00230 | .01380 | .52710 | .17335 | 3.04073 |
| .896 | 4.430 | 9.97000 | .54740 | .08055 | -.02940 | -.01350 | .00280 | .01650 | .52510 | .17411 | 3.01597 |
| .896 | 5.450 | 9.98000 | .55330 | .08187 | -.03000 | -.01330 | .00350 | .01890 | .53070 | .17652 | 3.00645 |
| .896 | 6.320 | 9.99000 | .55700 | .08340 | -.03090 | -.01470 | .00350 | .02120 | .53410 | .17876 | 2.98778 |
| .896 | 7.030 | 9.99000 | .56070 | .08533 | -.03300 | -.01720 | .00370 | .02330 | .53740 | .18130 | 2.96408 |
| .896 | 7.870 | 9.98000 | .56280 | .08736 | -.03500 | -.01730 | .00370 | .02540 | .53910 | .18357 | 2.93669 |
| .896 | 8.930 | 9.99000 | .56500 | .08923 | -.03590 | -.01930 | .00410 | .02770 | .54290 | .18606 | 2.91297 |
| .896 | 9.130 | 10.00000 | .56890 | .09159 | -.03790 | -.02040 | .00470 | .02990 | .54420 | .18897 | 2.87983 |
| .896 | 9.940 | 10.00000 | .56930 | .09306 | -.03840 | -.02080 | .00510 | .03130 | .54510 | .19061 | 2.85979 |
| | GRADIENT | -.00204 | -.00075 | .00009 | -.00009 | -.00270 | .00377 | .00374 | -.00076 | -.00006 | -.00337 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (RUK127) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 5.000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 105/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .895 | -4.860 | 14.75000 | .80380 | .08751 | -.04910 | .00520 | -.00100 | -.01950 | .75500 | .28928 | 2.50997 |
| .896 | -4.410 | 14.75000 | .80070 | .08703 | -.04750 | .00630 | -.00110 | -.01860 | .75220 | .28802 | 2.61161 |
| .897 | -3.670 | 14.75000 | .80340 | .08624 | -.04640 | .00610 | -.00120 | -.01550 | .75500 | .28795 | 2.62203 |
| .896 | -2.870 | 14.74000 | .79810 | .08506 | -.04740 | .00510 | -.00100 | -.01300 | .75020 | .28532 | 2.62929 |
| .895 | -2.210 | 14.74000 | .79540 | .08380 | -.04700 | .00150 | -.00080 | -.00940 | .74790 | .28342 | 2.63886 |
| .895 | -1.250 | 14.73000 | .79770 | .08292 | -.04820 | .00450 | -.00050 | -.00650 | .75030 | .28302 | 2.65104 |
| .896 | -.270 | 14.73000 | .79690 | .08293 | -.04860 | -.00010 | -.00090 | -.00310 | .74360 | .28283 | 2.65038 |
| .896 | .510 | 14.73000 | .79840 | .08309 | -.04910 | .00010 | -.00080 | -.00030 | .75200 | .28375 | 2.65023 |
| .896 | 1.220 | 14.73000 | .79770 | .08341 | -.04920 | .00000 | -.00100 | -.00260 | .75020 | .28350 | 2.64625 |
| .895 | 1.820 | 14.74000 | .79810 | .08310 | -.04820 | -.00170 | -.00080 | .00530 | .75070 | .28343 | 2.64864 |
| .895 | 2.460 | 14.74000 | .80190 | .08352 | -.04760 | -.00200 | -.00050 | .00780 | .75420 | .28480 | 2.64816 |
| .897 | 3.130 | 14.74000 | .79750 | .08448 | -.04720 | -.00260 | -.00040 | .01100 | .74980 | .28461 | 2.63448 |
| .895 | 3.820 | 14.73000 | .79700 | .08537 | -.05050 | -.00330 | -.00030 | .01310 | .74910 | .28521 | 2.62646 |
| .895 | 4.150 | 14.74000 | .80550 | .08573 | -.04890 | -.00330 | -.00020 | .01540 | .75710 | .28785 | 2.63015 |
| .895 | 5.290 | 14.75000 | .80410 | .08736 | -.05050 | -.00250 | -.00020 | .01830 | .75540 | .28907 | 2.61317 |
| .896 | 6.370 | 14.75000 | .80740 | .08900 | -.05060 | -.00370 | .00000 | .02100 | .75810 | .29163 | 2.59950 |
| .896 | 7.040 | 14.76000 | .80950 | .09118 | -.05140 | -.00500 | -.00040 | .02330 | .75960 | .29441 | 2.58009 |
| .895 | 8.140 | 14.76000 | .81100 | .09307 | -.05260 | -.00650 | -.00010 | .02540 | .76050 | .29662 | 2.56390 |
| .895 | 9.120 | 14.74000 | .80610 | .09489 | -.05400 | -.00780 | -.00010 | .02730 | .75540 | .29687 | 2.54458 |
| .895 | 9.990 | 14.75000 | .81420 | .09938 | -.05500 | -.00700 | .00000 | .03050 | .76200 | .30340 | 2.51152 |
| .896 | GRADIENT | -.00135 | -.00012 | -.00023 | -.00015 | -.00112 | .00008 | .00385 | -.00005 | -.00027 | .00228 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK128) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 5.000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 106/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|---------|---------|---------|--------|--------|---------|
| .895 | -4.850 | 19.61000 | 1.04520 | .08965 | -.04850 | -.00280 | .00150 | -.01240 | .95440 | .43524 | 2.19283 |
| .897 | -4.270 | 19.60000 | 1.04350 | .08949 | -.05040 | -.00460 | .00130 | -.01110 | .95290 | .43435 | 2.19386 |
| .896 | -3.480 | 19.58000 | 1.04610 | .08817 | -.04940 | -.00410 | .00100 | -.00900 | .95610 | .43364 | 2.20481 |
| .895 | -2.760 | 19.58000 | 1.04540 | .08748 | -.05070 | -.00400 | .00140 | -.00690 | .95560 | .43276 | 2.20816 |
| .896 | -1.850 | 19.61000 | 1.05540 | .08683 | -.05160 | -.00350 | .00100 | -.00450 | .96500 | .43600 | 2.21329 |
| .896 | -1.030 | 19.59000 | 1.04660 | .08646 | -.05260 | -.00350 | .00100 | -.00220 | .95700 | .43237 | 2.21340 |
| .897 | .100 | 19.61000 | 1.05440 | .08613 | -.05240 | -.00500 | .00090 | .00060 | .96430 | .43501 | 2.21674 |
| .897 | .900 | 19.64000 | 1.05150 | .08627 | -.05330 | -.00370 | .00060 | .00260 | .96130 | .43467 | 2.21156 |
| .897 | 1.320 | 19.61000 | 1.04790 | .08625 | -.05430 | -.00370 | .00060 | .00470 | .95920 | .43294 | 2.21324 |
| .896 | 1.960 | 19.61000 | 1.04960 | .08675 | -.05450 | -.00470 | .00010 | .00670 | .95960 | .43398 | 2.21116 |
| .897 | 2.930 | 19.60000 | 1.04830 | .08724 | -.05430 | -.00450 | .00030 | .00860 | .95830 | .43384 | 2.20808 |
| .897 | 3.400 | 19.60000 | 1.05230 | .08765 | -.05430 | -.00330 | .00020 | .01110 | .96190 | .43557 | 2.20839 |
| .895 | 4.210 | 19.60000 | 1.05220 | .08798 | -.05200 | -.00310 | .00030 | .01270 | .96020 | .43584 | 2.20629 |
| .897 | 5.410 | 19.61000 | 1.05130 | .08955 | -.05310 | -.00250 | .00050 | .01440 | .96160 | .43719 | 2.19530 |
| .897 | 6.470 | 19.60000 | 1.04950 | .09168 | -.05290 | -.00240 | .00060 | .01700 | .95790 | .43842 | 2.18487 |
| .897 | 7.280 | 19.60000 | 1.04450 | .09350 | -.05270 | -.00090 | .00090 | .01910 | .95250 | .43846 | 2.17237 |
| .897 | 8.130 | 19.60000 | 1.04540 | .09561 | -.05210 | -.00090 | .00130 | .01970 | .95270 | .44075 | 2.16154 |
| .896 | 8.760 | 19.60000 | 1.04240 | .09748 | -.05090 | .00140 | .00130 | .02170 | .94920 | .44151 | 2.14981 |
| .897 | 9.560 | 19.60000 | 1.04090 | .10005 | -.05120 | .00010 | .00210 | .02320 | .94700 | .44343 | 2.13561 |
| .896 | 9.880 | 19.58000 | 1.03290 | .10039 | -.04920 | .00050 | .00130 | .02450 | .93950 | .44073 | 2.13168 |
| .897 | 10.080 | 19.58000 | 1.03020 | .10125 | -.04560 | .00000 | .00170 | .02490 | .93660 | .44064 | 2.12555 |
| | GRADIENT | .00136 | .00071 | -.00020 | -.00056 | .00002 | -.00019 | .00281 | .00073 | .00007 | .00131 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK129) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00
 CA = 1076.7000 IN. XO
 CN = .0000 IN. YO
 CY = 375.0000 IN. ZO
 ELEVON = 10.000
 ALPHA = .000
 SPDBRK = 25.000
 BOFLAP = .000

RUN NO. 117/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CAL | CL | CD | L/D |
|------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .597 | -5.020 | -.02000 | 10220 | .07559 | -.04440 | .01210 | -.00080 | -.01690 | .10220 | .07555 | 1.35267 |
| .597 | -4.170 | -.03000 | 10280 | .07570 | -.04640 | .01200 | -.00030 | -.01450 | .10290 | .07565 | 1.36028 |
| .597 | -3.260 | -.02000 | 10510 | .07497 | -.04710 | .00880 | -.00010 | -.01170 | .10520 | .07493 | 1.40392 |
| .596 | -2.720 | -.03000 | 10850 | .07441 | -.04880 | .00860 | -.00020 | -.00900 | .10860 | .07435 | 1.46060 |
| .597 | -1.790 | -.01000 | 11640 | .07391 | -.04750 | .00360 | -.00000 | -.00640 | .11640 | .07389 | 1.57532 |
| .597 | -.970 | -.02000 | 11160 | .07385 | -.04790 | .00210 | -.00010 | -.00380 | .11160 | .07381 | 1.51197 |
| .596 | -.200 | -.01000 | 11650 | .07344 | -.04760 | .00330 | -.00030 | -.00120 | .11660 | .07342 | 1.58813 |
| .596 | .640 | -.02000 | 11530 | .07392 | -.04930 | -.00070 | -.00070 | -.00110 | .11530 | .07388 | 1.56064 |
| .597 | 1.730 | -.08000 | 11290 | .07444 | -.04970 | -.00260 | -.00060 | -.00480 | .11300 | .07428 | 1.52122 |
| .597 | 2.490 | -.08000 | 11400 | .07491 | -.04970 | -.00450 | -.00130 | -.00780 | .11410 | .07475 | 1.52641 |
| .597 | 3.460 | -.08000 | 11370 | .07528 | -.04930 | -.00680 | -.00110 | -.01070 | .11380 | .07512 | 1.51489 |
| .596 | 4.070 | -.07000 | 11430 | .07611 | -.04910 | -.01040 | -.00130 | -.01320 | .11440 | .07597 | 1.50585 |
| .596 | 5.030 | -.08000 | 10940 | .07635 | -.04840 | -.00990 | -.00140 | -.01530 | .10950 | .07620 | 1.43706 |
| | GRADIENT | -.00811 | .00110 | .00007 | -.00033 | -.00248 | -.00021 | -.00331 | .00111 | .00005 | .01361 |

RUN NO. 86/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| .896 | -5.140 | -.07000 | 07070 | .09106 | -.03280 | .00060 | -.00080 | -.01380 | .07060 | .09115 | .77458 |
| .897 | -4.630 | -.08000 | 06810 | .09111 | -.03180 | .00410 | -.00160 | -.01290 | .06790 | .09120 | .74448 |
| .896 | -3.770 | -.08000 | 06750 | .08955 | -.02970 | -.00180 | -.00070 | -.01110 | .06740 | .08964 | .75186 |
| .897 | -3.050 | -.08000 | 06150 | .08942 | -.02870 | -.00070 | -.00140 | -.00980 | .06140 | .08951 | .68539 |
| .896 | -2.810 | -.07000 | 05990 | .08379 | -.02830 | -.00210 | -.00110 | -.00680 | .05970 | .08886 | .67182 |
| .897 | -1.850 | -.07000 | 05820 | .08872 | -.02780 | -.00350 | -.00100 | -.00510 | .05810 | .08879 | .65435 |
| .896 | -1.220 | -.07000 | 05330 | .08777 | -.02510 | -.00100 | -.00160 | -.00290 | .05320 | .08784 | .60568 |
| .896 | -.250 | -.08000 | 05780 | .08709 | -.02300 | -.00110 | -.00080 | -.00080 | .05760 | .08717 | .66077 |
| .896 | .650 | -.08000 | 05699 | .08748 | -.02470 | -.00100 | -.00060 | -.00150 | .05680 | .08756 | .64870 |
| .896 | 1.720 | -.08000 | 06500 | .08772 | -.02720 | -.00430 | -.00030 | -.00360 | .06490 | .08781 | .73909 |
| .896 | 2.420 | -.09000 | 06530 | .08661 | -.02780 | -.00280 | -.00020 | -.00630 | .06510 | .08871 | .74509 |
| .896 | 3.220 | -.08000 | 06440 | .08395 | -.03120 | -.00040 | -.00050 | -.00810 | .06430 | .09005 | .71405 |
| .896 | 4.000 | -.09000 | 07590 | .08074 | -.03170 | -.00510 | -.00000 | -.00990 | .07570 | .09086 | .83316 |
| .897 | 4.380 | -.09000 | 07520 | .09171 | -.03440 | -.00490 | -.00040 | -.01180 | .07510 | .09183 | .81783 |
| .896 | 4.970 | -.08000 | 07270 | .09225 | -.03560 | -.00910 | -.00070 | -.01290 | .07260 | .09236 | .78604 |
| | GRADIENT | .00122 | .00113 | .00017 | -.00045 | -.00068 | -.00016 | -.00266 | .00113 | .00017 | .01119 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK129) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 184/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| .947 | -5.020 | .16000 | .08110 | .11853 | -.03420 | -.00550 | .00290 | -.01720 | .08070 | .11876 | .67954 |
| .947 | -3.650 | .15000 | .07030 | .11730 | -.03330 | .00020 | .00270 | -.01330 | .07000 | .11748 | .59583 |
| .948 | -3.110 | .15000 | .06540 | .11813 | -.02970 | -.00110 | .00300 | -.01090 | .06510 | .11830 | .55029 |
| .947 | -2.620 | .14000 | .05860 | .11624 | -.02820 | -.00300 | .00240 | -.03850 | .05850 | .11638 | .50265 |
| .946 | -1.770 | .14000 | .06020 | .11485 | -.03020 | -.00650 | .00140 | -.06100 | .05990 | .11500 | .52098 |
| .947 | -1.080 | .14000 | .05770 | .11484 | -.02760 | -.00110 | .00110 | -.00360 | .05740 | .11498 | .49921 |
| .948 | -.260 | .15000 | .06380 | .11580 | -.02700 | -.00460 | .00000 | -.00080 | .06350 | .11597 | .54757 |
| .948 | .450 | .15000 | .06410 | .11592 | -.02930 | -.00480 | -.00130 | -.00020 | .06380 | .11609 | .54959 |
| .946 | 1.240 | .15000 | .06400 | .11499 | -.02960 | -.00310 | .00030 | .00400 | .06370 | .11516 | .55316 |
| .946 | 1.980 | .14000 | .06050 | .11530 | -.03120 | -.00370 | -.00150 | .00650 | .06020 | .11545 | .52145 |
| .946 | 2.880 | .14000 | .06140 | .11554 | -.03080 | -.00280 | -.00180 | .01240 | .06110 | .11569 | .51988 |
| .948 | 4.020 | .14000 | .06110 | .11680 | -.03280 | -.00220 | -.00180 | .01460 | .06080 | .11695 | .51988 |
| .947 | 4.640 | .15000 | .07690 | .11813 | -.03620 | -.00310 | -.00260 | .01540 | .07660 | .11833 | .64734 |
| .948 | 4.940 | .16000 | .08250 | .11948 | -.03820 | -.00070 | -.00300 | .01540 | .08210 | .11971 | .68582 |
| | GRADIENT | .00042 | .00110 | .00014 | -.00069 | .00022 | -.00067 | .00328 | .00110 | .00014 | .00856 |

RUN NO. 272/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|--------|--------|---------|---------|---------|---------|---------|--------|---------|--------|
| .976 | -5.060 | .02000 | .06130 | .13995 | -.02970 | -.00720 | .00290 | -.01720 | .06130 | .13927 | .43795 |
| .976 | -4.770 | .03000 | .06770 | .13924 | -.02910 | -.00280 | .00390 | -.01670 | .06770 | .13928 | .48609 |
| .977 | -3.960 | .02000 | .05920 | .13874 | -.02810 | -.00260 | .00300 | -.01460 | .05910 | .13876 | .42591 |
| .978 | -3.090 | .02000 | .06220 | .13788 | -.02670 | -.00520 | .00240 | -.01220 | .06210 | .13790 | .45032 |
| .976 | -1.660 | .02000 | .05740 | .13476 | -.02350 | -.00160 | .00180 | -.00660 | .05740 | .13478 | .42588 |
| .976 | -.920 | .01000 | .05230 | .13481 | -.02470 | -.00200 | .00140 | -.00310 | .05230 | .13482 | .38793 |
| .977 | -.100 | .01000 | .05420 | .13419 | -.02500 | -.00040 | .00100 | -.00020 | .05420 | .13420 | .40388 |
| .977 | .840 | .01000 | .05090 | .13441 | -.02280 | -.00030 | -.00010 | -.00260 | .05090 | .13442 | .37867 |
| .977 | 1.660 | .02000 | .05540 | .13475 | -.02510 | -.00100 | -.00050 | -.00560 | .05640 | .13477 | .41849 |
| .978 | 2.350 | .01000 | .05580 | .13600 | -.02770 | -.00200 | -.00150 | -.00790 | .05580 | .13601 | .41026 |
| .978 | 3.020 | .05920 | .05920 | .13547 | -.02820 | .00080 | -.00130 | .01030 | .05920 | .13649 | .43373 |
| .977 | 4.070 | .02000 | .06550 | .13630 | -.02900 | .00120 | -.00170 | .01210 | .06540 | .13632 | .47974 |
| .977 | 4.550 | .04000 | .06690 | .13827 | -.02940 | -.00030 | -.00310 | .01410 | .06680 | .13832 | .48295 |
| .977 | 4.900 | .04000 | .07270 | .13756 | -.03290 | -.00130 | -.00310 | .01480 | .07260 | .13761 | .52758 |
| | GRADIENT | .00090 | .00048 | -.00011 | -.00032 | .00036 | -.00069 | .00337 | .00048 | -.00011 | .00388 |

PARAMETRIC DATA

DATE 01 MAR 77

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK129) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 258/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|--------|
| 1.047 | -5.010 | -12000 | .04240 | .16221 | -.02320 | -.01180 | .00270 | -.01560 | .04270 | .16212 | .26338 |
| 1.047 | -4.620 | -09000 | .05280 | .16171 | -.02480 | -.00440 | .00380 | -.01480 | .05310 | .16163 | .32853 |
| 1.047 | -3.840 | -11000 | .04770 | .16051 | -.02300 | -.00610 | .00300 | -.01300 | .04910 | .16042 | .29984 |
| 1.047 | -3.150 | -11000 | .04730 | .15952 | -.02220 | -.00440 | .00280 | -.01090 | .04760 | .15943 | .29857 |
| 1.047 | -2.710 | -09000 | .04820 | .15833 | -.02190 | -.00380 | .00210 | -.00850 | .04850 | .15825 | .30847 |
| 1.048 | -1.960 | -10000 | .04170 | .15833 | -.02150 | -.00530 | .00150 | -.00590 | .04200 | .15826 | .26539 |
| 1.046 | -1.170 | -11000 | .04490 | .15759 | -.02000 | -.00070 | .00210 | -.00410 | .04520 | .15750 | .28698 |
| 1.047 | -.530 | -11000 | .04350 | .15751 | -.02060 | -.00320 | .00020 | -.00170 | .04380 | .15743 | .27823 |
| 1.047 | .130 | -10000 | .04080 | .15703 | -.02080 | -.00470 | .00030 | -.00060 | .04110 | .15696 | .26185 |
| 1.047 | 1.010 | -09000 | .04680 | .15706 | -.02030 | -.00280 | .00010 | .00290 | .04700 | .15699 | .29939 |
| 1.048 | 1.690 | -10000 | .04540 | .15723 | -.02090 | -.00000 | -.00010 | .00490 | .04570 | .15715 | .29080 |
| 1.046 | 2.170 | -10000 | .04830 | .15775 | -.02310 | -.00570 | -.00130 | .00670 | .04850 | .15767 | .30761 |
| 1.048 | 2.730 | -10000 | .04300 | .15866 | -.02310 | -.00130 | -.00130 | .00910 | .04330 | .15858 | .27304 |
| 1.047 | 3.720 | -09000 | .05270 | .15880 | -.02510 | -.00120 | -.00110 | .01110 | .05300 | .15872 | .33393 |
| 1.047 | 4.190 | -09000 | .05790 | .15924 | -.02720 | -.00220 | -.00230 | .01320 | .05820 | .15915 | .36570 |
| 1.047 | 4.950 | -08000 | .06050 | .16040 | -.02820 | -.00300 | -.00270 | .01470 | .06080 | .16032 | .37925 |
| 1.047 | GRADIENT | -.00151 | .00077 | -.00012 | -.00039 | .00030 | -.00064 | .00316 | .00076 | -.00012 | .00501 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK130) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L =
 BETA =
 GRIT =
 RUDDER =

4.000 ELEVON = 10.000
 .000 ALPHA = .000
 1.000 SPOBRK = 25.000
 .000 BOFLAP = .000

RUN NO. 209/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | AILTRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|--------|--------|----------|---------|---------|---------|--------|--------|---------|
| 1.197 | -4.940 | 14.38000 | .88710 | .15001 | -1.13700 | .00270 | .00330 | -.01540 | .82200 | .36562 | 2.24822 |
| 1.198 | -4.400 | 14.38000 | .88240 | .14870 | -1.13550 | -.00250 | .00240 | -.01430 | .81780 | .36319 | 2.25173 |
| 1.198 | -3.140 | 14.37000 | .88160 | .14748 | -1.13730 | .00020 | .00160 | -.01040 | .81740 | .36166 | 2.26011 |
| 1.199 | -2.010 | 14.37000 | .87880 | .14661 | -1.13980 | -.00610 | .00070 | -.00690 | .81500 | .36013 | 2.26310 |
| 1.197 | -1.240 | 14.38000 | .88430 | .14578 | -1.13890 | -.00320 | .00010 | -.00470 | .82040 | .36083 | 2.27305 |
| 1.198 | -.210 | 14.37000 | .88120 | .14550 | -1.14020 | -.00400 | .00030 | -.00160 | .81750 | .35965 | 2.27307 |
| 1.199 | .720 | 14.38000 | .88660 | .14532 | -1.14020 | -.00680 | -.00190 | .00100 | .82470 | .36145 | 2.28163 |
| 1.197 | 1.770 | 14.37000 | .88300 | .14641 | -1.14210 | -.00390 | .00140 | .00360 | .81900 | .36097 | 2.26886 |
| 1.198 | 2.350 | 14.37000 | .88440 | .14685 | -1.14090 | -.00080 | -.00170 | .00600 | .82020 | .36175 | 2.26732 |
| 1.197 | 3.170 | 14.36000 | .88760 | .14769 | -1.14090 | -.00300 | .00320 | .00840 | .82330 | .36321 | 2.26672 |
| 1.197 | 4.260 | 14.41000 | .88790 | .14888 | -1.14190 | .00200 | .00250 | .01080 | .82280 | .36516 | 2.25327 |
| 1.197 | 4.890 | 14.36000 | .89050 | .15021 | -1.14310 | -.00760 | -.00420 | .01300 | .82540 | .36637 | 2.25289 |
| 1.197 | GRADIENT | -.00012 | .00059 | .00001 | -.00064 | -.00029 | -.00068 | .00291 | .00057 | .00016 | .00059 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (RUK131) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 118/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .597 | -5.040 | 4.85000 | 34320 | .08232 | -.04900 | .01230 | -.00110 | -.01770 | .33670 | .09111 | 3.69539 |
| .597 | -4.170 | 4.85000 | 34650 | .06146 | -.04900 | .01170 | .00000 | -.01550 | .34000 | .09054 | 3.75543 |
| .597 | -3.120 | 4.85000 | 34130 | .06105 | -.04830 | .01070 | -.00020 | -.01250 | .33490 | .08969 | 3.73408 |
| .597 | -2.770 | 4.85000 | 34410 | .06072 | -.05070 | .00470 | -.00040 | -.00990 | .33780 | .08960 | 3.77028 |
| .596 | -1.820 | 4.85000 | 34930 | .06062 | -.05140 | .00530 | -.00010 | -.00700 | .34290 | .08934 | 3.81274 |
| .597 | -.670 | 4.85000 | 34920 | .05993 | -.05080 | .00320 | .00000 | -.00310 | .34290 | .08924 | 3.84247 |
| .597 | .110 | 4.84000 | 34990 | .06011 | -.05250 | .00110 | .00020 | .00000 | .34360 | .08942 | 3.84263 |
| .597 | .930 | 4.83000 | 34860 | .06040 | -.05300 | .00060 | .00010 | .00230 | .34230 | .08954 | 3.82298 |
| .597 | 1.920 | 4.88000 | 35630 | .06008 | -.05220 | .00140 | .00060 | .00520 | .34990 | .09017 | 3.88035 |
| .553 | 2.490 | 4.91000 | 36210 | .06019 | -.05150 | .00370 | .00050 | .00810 | .35560 | .09096 | 3.90934 |
| .597 | 3.410 | 4.90000 | 36010 | .06098 | -.05150 | .00540 | .00060 | .01090 | .35360 | .09152 | 3.86381 |
| .597 | 4.140 | 4.88000 | 35590 | .06210 | -.05300 | .00600 | .00090 | .01420 | .34930 | .09215 | 3.79052 |
| .597 | 5.030 | 4.85000 | 35060 | .06290 | -.05250 | .01040 | .00040 | .01610 | .34400 | .09232 | 3.72629 |
| | GRADIENT | .00610 | .00204 | .00000 | -.00042 | -.00201 | .00013 | .00352 | .00202 | .00021 | .01337 |

RUN NO. 87/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .896 | -4.950 | 5.46000 | 39130 | .08835 | -.06400 | .00520 | -.00170 | -.01830 | .38100 | .12531 | 3.04035 |
| .896 | -3.950 | 5.49000 | 39540 | .08753 | -.06490 | .00850 | -.00060 | -.01450 | .36520 | .12496 | 3.08266 |
| .897 | -3.200 | 5.48000 | 39850 | .08725 | -.06690 | .00340 | -.00040 | -.01140 | .38830 | .12491 | 3.10871 |
| .895 | -2.790 | 5.50000 | 39860 | .08609 | -.06490 | .00160 | -.00050 | -.00890 | .38850 | .12391 | 3.13565 |
| .897 | -1.830 | 5.49000 | 39490 | .08639 | -.06610 | .00030 | -.00020 | -.00560 | .38480 | .12377 | 3.10888 |
| .896 | -1.360 | 5.50000 | 40210 | .08592 | -.06690 | .00000 | .00040 | -.00370 | .39030 | .12406 | 3.15966 |
| .896 | -.550 | 5.50000 | 40040 | .08539 | -.06630 | .00000 | .00090 | -.00080 | .39030 | .12337 | 3.16356 |
| .896 | .290 | 5.51000 | 40560 | .08526 | -.06660 | .00270 | .00100 | .00130 | .39550 | .12381 | 3.19437 |
| .897 | .930 | 5.49000 | 39940 | .08623 | -.06770 | .00000 | .00000 | .00390 | .38930 | .12405 | 3.13836 |
| .896 | 2.030 | 5.51000 | 40610 | .08623 | -.06610 | .00870 | .00070 | .00670 | .39590 | .12483 | 3.17164 |
| .896 | 2.650 | 5.50000 | 39750 | .08703 | -.06750 | .00750 | .00090 | .00920 | .38740 | .12474 | 3.10572 |
| .896 | 3.470 | 5.49000 | 39860 | .08851 | -.06670 | .00660 | .00120 | .01190 | .38830 | .12624 | 3.07591 |
| .896 | 4.090 | 5.50000 | 40030 | .08850 | -.06610 | .00560 | .00150 | .01500 | .38990 | .12646 | 3.08320 |
| .896 | 5.050 | 5.50000 | 40130 | .08967 | -.06650 | .00840 | .00030 | .01700 | .39080 | .12772 | 3.05982 |
| | GRADIENT | .00172 | .00073 | .00004 | -.00018 | -.00170 | .00026 | .00355 | .00072 | .00012 | .00276 |

(RUK131) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 10'6.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 183/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .946 | -5.050 | 4.95000 | .38460 | .11766 | -.08110 | .00000 | .00360 | -.01960 | .37300 | .15041 | 2.47994 |
| .948 | -4.760 | 4.96000 | .39020 | .11788 | -.08300 | -.00280 | .00380 | -.01850 | .37850 | .15118 | 2.50371 |
| .948 | -4.230 | 4.96000 | .39500 | .11977 | -.08600 | -.00660 | .00290 | -.01750 | .38310 | .15347 | 2.49620 |
| .948 | -3.680 | 4.97000 | .39630 | .11800 | -.08580 | -.00170 | .00320 | -.01530 | .38460 | .15189 | 2.53210 |
| .946 | -2.690 | 4.96000 | .38970 | .11519 | -.08470 | -.00670 | .00140 | -.01240 | .37830 | .14845 | 2.54829 |
| .946 | -2.370 | 4.95000 | .38660 | .11433 | -.08380 | -.00490 | .00150 | -.00950 | .37530 | .14726 | 2.54862 |
| .947 | -1.690 | 4.96000 | .38850 | .11388 | -.08390 | -.00180 | .00110 | -.00640 | .37720 | .14704 | 2.56523 |
| .948 | -.600 | 4.96000 | .39190 | .11289 | -.08350 | -.00520 | .00050 | -.00350 | .38070 | .14635 | 2.60128 |
| .948 | -.010 | 4.95000 | .38320 | .11406 | -.08480 | -.00060 | -.00020 | -.00020 | .37190 | .14670 | 2.53511 |
| .948 | .910 | 4.96000 | .38940 | .11312 | -.08340 | .00020 | .00000 | -.00280 | .37820 | .14636 | 2.58397 |
| .946 | 2.030 | 4.97000 | .39480 | .11205 | -.08250 | -.00210 | .00060 | .00630 | .38360 | .14583 | 2.63043 |
| .946 | 2.430 | 4.96000 | .38860 | .11357 | -.08290 | -.00140 | .00200 | .00910 | .37730 | .14674 | 2.57116 |
| .948 | 3.330 | 4.97000 | .39370 | .11603 | -.08330 | -.00080 | .00230 | .01210 | .38220 | .14970 | 2.55308 |
| .948 | 3.950 | 4.96000 | .39040 | .11641 | -.08390 | .00100 | -.00240 | .01450 | .37890 | .14973 | 2.53059 |
| .947 | 5.070 | 4.97000 | .39520 | .11695 | -.08300 | -.00540 | -.00370 | .01770 | .38360 | .15075 | 2.54464 |
| GRADIENT | .00045 | .00045 | -.00010 | -.00040 | .00020 | .00056 | -.00068 | .00387 | -.00006 | -.00041 | .00650 |

RUN NO. 273/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|----------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| .978 | -5.080 | 5.03000 | .39070 | .13913 | -.08030 | -.00270 | .00340 | -.01910 | .37700 | .17285 | 2.18109 |
| .978 | -4.830 | 5.05000 | .39710 | .13891 | -.08000 | -.00450 | .00380 | -.01920 | .38330 | .17333 | 2.21145 |
| .977 | -4.170 | 5.05000 | .39140 | .13668 | -.07920 | .00110 | .00390 | -.01700 | .37790 | .17047 | 2.21681 |
| .976 | -3.060 | 5.04000 | .38650 | .13385 | -.07720 | -.00340 | .00170 | -.01200 | .37330 | .16729 | 2.23149 |
| .978 | -2.190 | 5.03000 | .38730 | .13423 | -.07630 | -.00070 | .00210 | -.00970 | .37400 | .16767 | 2.23057 |
| .977 | -1.530 | 5.03000 | .38480 | .13273 | -.07560 | -.00340 | .00080 | -.00670 | .37160 | .16596 | 2.23913 |
| .976 | -1.030 | 5.02000 | .38570 | .13125 | -.07670 | -.00230 | .00050 | -.00440 | .37280 | .16450 | 2.26631 |
| .976 | .130 | 4.99000 | .38400 | .13063 | -.07400 | .00010 | .00000 | -.00030 | .37120 | .16354 | 2.26984 |
| .976 | 1.150 | 4.97000 | .37810 | .13148 | -.07420 | -.00440 | -.00150 | .00350 | .36530 | .16374 | 2.23095 |
| .977 | 1.870 | 5.03000 | .38410 | .13192 | -.07760 | .00020 | -.00090 | .00580 | .37100 | .16509 | 2.24727 |
| .976 | 3.180 | 5.04000 | .38740 | .13303 | -.07720 | .00110 | -.00230 | .01080 | .37430 | .16655 | 2.24738 |
| .977 | 4.360 | 5.04000 | .39550 | .13520 | -.07790 | .00000 | -.00280 | .01390 | .38220 | .16943 | 2.25578 |
| .978 | 4.570 | 4.98000 | .38820 | .13634 | -.07730 | .00140 | -.00300 | .01630 | .37490 | .16952 | 2.21148 |
| .977 | 4.910 | 4.99000 | .39540 | .13661 | -.08040 | .00120 | -.00350 | .01700 | .38200 | .17048 | 2.24067 |
| GRADIENT | -.00368 | -.00368 | .00003 | -.00009 | .00001 | .00038 | -.00073 | .00371 | -.00005 | -.00011 | .00171 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK131) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 5.000
 CRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 259/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 3.00

| MACH | AILLRN | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|---------|
| 1.048 | -5.020 | 4.87000 | .39080 | .16442 | -.08220 | .00090 | .00420 | -.01770 | .37540 | .19700 | 1.90555 |
| 1.047 | -4.660 | 4.86000 | .38340 | .16362 | -.08020 | -.00250 | .00350 | -.01700 | .37010 | .19568 | 1.89132 |
| 1.048 | -3.610 | 4.85000 | .36600 | .16276 | -.07970 | .00170 | .00310 | -.01490 | .37080 | .19488 | 1.90274 |
| 1.047 | -3.110 | 4.85000 | .37320 | .16207 | -.07810 | .00020 | .00220 | -.01180 | .35820 | .19304 | 1.89555 |
| 1.048 | -2.820 | 4.85000 | .38240 | .16125 | -.07790 | -.00050 | .00210 | -.00930 | .36730 | .19307 | 1.90244 |
| 1.048 | -1.510 | 4.85000 | .37820 | .16088 | -.07870 | .00110 | .00170 | -.00660 | .36320 | .19228 | 1.88891 |
| 1.046 | -.980 | 4.85000 | .37440 | .16052 | -.07770 | -.00030 | .00100 | -.00390 | .35940 | .19160 | 1.87578 |
| 1.047 | -.530 | 4.85000 | .37770 | .15991 | -.07690 | -.00140 | .00040 | -.00160 | .36280 | .19133 | 1.89616 |
| 1.046 | .560 | 4.86000 | .37890 | .15882 | -.07560 | .00020 | -.00010 | .00060 | .36400 | .19035 | 1.91227 |
| 1.046 | 1.540 | 4.85000 | .37730 | .16020 | -.07820 | -.00080 | .00080 | .00430 | .36240 | .19153 | 1.89217 |
| 1.049 | 2.000 | 4.87000 | .38410 | .15990 | -.07810 | .00070 | -.00160 | .00700 | .36910 | .19193 | 1.92309 |
| 1.046 | 2.870 | 4.85000 | .37890 | .16042 | -.07840 | -.00060 | -.00190 | .00030 | .36390 | .19188 | 1.89649 |
| 1.047 | 3.960 | 4.87000 | .38850 | .16158 | -.08090 | -.00030 | -.00230 | .01180 | .37330 | .19398 | 1.92444 |
| 1.049 | 4.670 | 4.88000 | .39590 | .16234 | -.08160 | .00170 | -.00500 | .01410 | .38060 | .19543 | 1.94750 |
| 1.046 | 5.020 | 4.87000 | .39580 | .16395 | -.08680 | -.00050 | -.00330 | .01500 | .38040 | .19696 | 1.93136 |
| | GRADIENT | .00151 | .00081 | -.00018 | -.00012 | .00011 | -.00071 | .00341 | .00081 | -.00010 | .00513 |

RUN NO. 295/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLRN | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|--------|---------|---------|---------|---------|---------|--------|--------|---------|
| 1.117 | -5.070 | 4.95000 | .37800 | .16265 | -.08530 | -.01100 | .00300 | -.01540 | .36260 | .19466 | 1.86274 |
| 1.117 | -3.860 | 4.94000 | .37570 | .16179 | -.08770 | .00360 | .00480 | -.01280 | .36030 | .19354 | 1.86162 |
| 1.118 | -3.010 | 4.96000 | .37550 | .16096 | -.08780 | -.00610 | .00250 | -.01110 | .36020 | .19282 | 1.86803 |
| 1.117 | -2.720 | 4.96000 | .37640 | .15972 | -.08740 | -.00960 | .00120 | -.00820 | .36310 | .19184 | 1.89274 |
| 1.118 | -1.850 | 4.95000 | .37520 | .15949 | -.08590 | .00000 | .00160 | -.00570 | .35800 | .19116 | 1.87278 |
| 1.118 | -.720 | 4.96000 | .37330 | .15851 | -.08600 | .00180 | .00260 | -.00290 | .35810 | .19019 | 1.88283 |
| 1.118 | .000 | 4.95000 | .37170 | .15851 | -.08560 | -.00220 | .00030 | .00030 | .35660 | .18999 | 1.87693 |
| 1.116 | .980 | 4.99000 | .37740 | .15871 | -.08610 | .00060 | .00100 | .00280 | .36210 | .19094 | 1.89645 |
| 1.116 | 2.150 | 5.00000 | .38100 | .15873 | -.08540 | -.00150 | .00110 | .00610 | .36510 | .19133 | 1.91133 |
| 1.118 | 2.710 | 5.00000 | .39040 | .15912 | -.08660 | -.00240 | .00190 | .00800 | .36510 | .19167 | 1.90485 |
| 1.116 | 3.700 | 4.96000 | .38040 | .15989 | -.08670 | .00140 | .00090 | .00390 | .36520 | .19218 | 1.90029 |
| 1.117 | 4.100 | 4.95000 | .37950 | .16085 | -.08920 | -.00070 | -.00280 | .01210 | .36420 | .19300 | 1.88709 |
| 1.117 | 4.820 | 4.98000 | .38740 | .16171 | -.08980 | .00060 | -.00130 | .01340 | .37190 | .19473 | 1.90983 |
| | GRADIENT | .00313 | .00103 | -.00001 | -.00022 | .00033 | -.00067 | .00304 | .00102 | .00010 | .00433 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK132) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 208/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.197 | -5.120 | 9.47000 | .61210 | .15078 | -.11730 | -.00440 | .00240 | -.01460 | .57890 | .24943 | 2.32085 |
| 1.197 | -3.980 | 9.47000 | .61120 | .15053 | -.11800 | .00360 | .00440 | -.01150 | .57810 | .24904 | 2.32131 |
| 1.197 | -2.990 | 9.48000 | .61590 | .14977 | -.11690 | -.00240 | .00240 | -.00980 | .58280 | .24917 | 2.33901 |
| 1.198 | -2.580 | 9.47000 | .61020 | .14929 | -.11820 | -.00330 | .00200 | -.00700 | .57730 | .24765 | 2.33109 |
| 1.197 | -1.430 | 9.47000 | .60930 | .14855 | -.11560 | -.00220 | .00160 | -.00400 | .57560 | .24661 | 2.33405 |
| 1.196 | -.750 | 9.50000 | .61250 | .14803 | -.11630 | -.00890 | -.00050 | -.00160 | .57960 | .24709 | 2.34569 |
| 1.197 | 1.180 | 9.52000 | .61580 | .14765 | -.11690 | -.00470 | -.00080 | .00070 | .58290 | .24746 | 2.35549 |
| 1.198 | 1.040 | 9.50000 | .60730 | .14809 | -.11720 | -.00540 | -.00180 | .00290 | .57460 | .24629 | 2.33300 |
| 1.197 | 1.830 | 9.47000 | .60840 | .14798 | -.11560 | -.00640 | -.00250 | .00490 | .57570 | .24606 | 2.33363 |
| 1.198 | 2.420 | 9.44000 | .60620 | .14817 | -.11660 | -.00810 | -.00280 | .00700 | .57360 | .24559 | 2.33561 |
| 1.197 | 3.100 | 9.45000 | .61170 | .14826 | -.11620 | -.00110 | -.00240 | .00900 | .57900 | .24668 | 2.34716 |
| 1.137 | 4.290 | 9.47000 | .60930 | .14965 | -.11740 | -.00310 | -.00310 | .01150 | .57630 | .24786 | 2.32511 |
| 1.198 | 4.970 | 9.48000 | .61720 | .15063 | -.12050 | -.00070 | -.00300 | .01250 | .58400 | .25023 | 2.33387 |
| | GRADIENT | -.00147 | -.00006 | -.00004 | -.00009 | -.00027 | -.00082 | .00278 | -.00005 | -.00005 | .00039 |

DATE 01 MAR 77

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK133) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BRFF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 119/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .597 | -5.040 | 9.92000 | .61420 | .03323 | -.06170 | .01660 | -.00150 | -.02140 | .59930 | .13854 | 4.32573 |
| .597 | -4.420 | 9.93000 | .61490 | .03116 | -.05920 | .01750 | -.00130 | -.01990 | .60030 | .13673 | 4.39042 |
| .597 | -3.240 | 9.94000 | .61890 | .02977 | -.05890 | .01190 | -.00120 | -.01640 | .60440 | .13616 | 4.43904 |
| .596 | -2.930 | 9.92000 | .61740 | .02929 | -.05980 | .00800 | -.00030 | -.01250 | .60310 | .13521 | 4.46036 |
| .597 | -2.120 | 9.93000 | .61260 | .02972 | -.05740 | .00650 | -.00100 | -.00890 | .59830 | .13491 | 4.43466 |
| .597 | -1.090 | 9.88000 | .61860 | .02845 | -.05800 | .00360 | -.00020 | -.00520 | .60460 | .13417 | 4.50820 |
| .597 | -.170 | 9.93000 | .61940 | .02908 | -.05870 | .00030 | -.00000 | -.00130 | .60510 | .13546 | 4.46711 |
| .597 | .760 | 9.94000 | .61710 | .02958 | -.06020 | -.00230 | .00010 | -.00250 | .60270 | .13576 | 4.43957 |
| .597 | 1.920 | 9.92000 | .62410 | .02953 | -.06140 | -.00590 | -.00030 | -.00610 | .60960 | .13660 | 4.46253 |
| .597 | 2.770 | 9.90000 | .61900 | .03166 | -.06180 | -.00890 | -.00020 | -.01070 | .60430 | .13761 | 4.39131 |
| .596 | 3.690 | 9.95000 | .62930 | .03097 | -.06330 | -.00890 | .00000 | .01350 | .61440 | .13924 | 4.41252 |
| .597 | 4.150 | 9.96000 | .62630 | .03251 | -.06400 | -.01290 | .00060 | .01670 | .61120 | .14035 | 4.35497 |
| .597 | 5.040 | 9.96000 | .63340 | .03234 | -.06240 | -.01260 | .00060 | .01860 | .61820 | .14141 | 4.37181 |
| | GRADIENT | .00176 | .00131 | .00020 | -.00060 | -.00322 | .00017 | .00418 | .00125 | .00045 | -.00521 |

RUN NO. 88/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .897 | -5.070 | 10.92000 | .68070 | .09025 | -.08050 | .00300 | .00030 | -.01910 | .65130 | .21757 | 2.99357 |
| .896 | -4.740 | 10.92000 | .68120 | .08961 | -.08180 | .00370 | .00040 | -.01840 | .65190 | .21703 | 3.00369 |
| .896 | -3.930 | 10.92000 | .68180 | .08867 | -.08140 | .00540 | .00080 | -.01570 | .65260 | .21622 | 3.01817 |
| .896 | -3.040 | 10.92000 | .68270 | .08721 | -.08140 | .00170 | .00020 | -.01280 | .65380 | .21496 | 3.04149 |
| .897 | -2.750 | 10.92000 | .68180 | .08678 | -.08260 | .00050 | .00000 | -.00990 | .65300 | .21437 | 3.04617 |
| .896 | -1.770 | 10.92000 | .68150 | .08622 | -.08220 | .00150 | .00000 | -.00630 | .65280 | .21376 | 3.05388 |
| .897 | -1.300 | 10.92000 | .68140 | .08593 | -.06410 | .00000 | -.00020 | -.00360 | .65260 | .21444 | 3.04329 |
| .896 | -.380 | 10.91000 | .67910 | .08624 | -.08530 | -.00430 | -.00030 | -.00060 | .65050 | .21321 | 3.05095 |
| .895 | 1.740 | 10.92000 | .68480 | .08529 | -.08190 | -.00020 | -.00030 | .00280 | .65630 | .21347 | 3.07439 |
| .896 | 1.630 | 10.91000 | .68120 | .08734 | -.08650 | -.00550 | -.00070 | .00560 | .65230 | .21469 | 3.03834 |
| .896 | 2.380 | 10.91000 | .68090 | .08734 | -.08460 | -.00200 | -.00120 | .00860 | .65190 | .21514 | 3.03007 |
| .897 | 3.480 | 10.92000 | .68310 | .08864 | -.08320 | -.00560 | -.00140 | .01210 | .65390 | .21644 | 3.02116 |
| .896 | 4.050 | 10.92000 | .68460 | .08932 | -.08250 | -.00370 | -.00100 | .01420 | .65520 | .21739 | 3.01391 |
| .896 | 4.670 | 10.92000 | .68140 | .09072 | -.08290 | -.00420 | -.00150 | .01560 | .65190 | .21816 | 2.98817 |
| .897 | 5.010 | 10.92000 | .68520 | .09120 | -.08530 | -.00500 | -.00200 | .01700 | .65550 | .21935 | 2.98835 |
| | GRADIENT | -.00032 | .00013 | .00015 | -.00020 | -.00093 | -.00022 | .00370 | .00010 | .00016 | -.00183 |

(RUK133) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 182/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|---------|---------|---------|---------|---------|--------|---------|---------|
| .947 | -4.890 | 10.13000 | .68210 | .11187 | -1.1150 | .00160 | .00100 | -.01860 | .55180 | .23010 | 2.83274 |
| .949 | -3.870 | 10.14000 | .69300 | .11260 | -1.1480 | .00230 | .00050 | -.01590 | .66230 | .23285 | 2.84436 |
| .947 | -2.970 | 10.14000 | .68650 | .10960 | -1.1190 | .00110 | .00090 | -.01260 | .55640 | .22875 | 2.86952 |
| .946 | -2.460 | 10.14000 | .68690 | .10821 | -1.1460 | -.00100 | .00020 | -.00910 | .65710 | .22745 | 2.88897 |
| .947 | -1.630 | 10.15000 | .69350 | .10734 | -1.1470 | -.00140 | .00060 | -.00590 | .66370 | .22787 | 2.91259 |
| .947 | -.450 | 10.15000 | .69330 | .10702 | -1.1580 | .00010 | -.00020 | -.00260 | .66360 | .22752 | 2.91654 |
| .949 | .250 | 10.12000 | .69120 | .10751 | -1.1730 | .00110 | -.00040 | -.00120 | .66150 | .22729 | 2.91040 |
| .947 | 1.140 | 10.12000 | .69640 | .10743 | -1.1670 | -.00220 | .00140 | .00350 | .66660 | .22812 | 2.92310 |
| .947 | 2.020 | 10.12000 | .69500 | .10758 | -1.1380 | -.00140 | .00170 | .00650 | .66520 | .22802 | 2.91722 |
| .947 | 2.540 | 10.10000 | .68500 | .10872 | -1.1710 | -.00070 | .00180 | .00920 | .65530 | .22716 | 2.88473 |
| .948 | 3.480 | 10.12000 | .69260 | .11105 | -1.1520 | -.00310 | -.00320 | .01180 | .66230 | .23102 | 2.86686 |
| .948 | 4.050 | 10.11000 | .69280 | .11225 | -1.1530 | -.00730 | -.00520 | .01550 | .66240 | .23212 | 2.85369 |
| .946 | 5.030 | 10.09000 | .68190 | .11189 | -1.1640 | -.00080 | -.00360 | .01680 | .65170 | .22962 | 2.83811 |
| | GRADIENT | -.00379 | .00068 | -.00009 | -.00037 | -.00057 | -.00056 | .00377 | .00070 | -.00002 | .00325 |

RUN NO. 274/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .977 | -4.410 | 9.86000 | .67160 | .13265 | -1.1210 | .00390 | .00000 | -.01830 | .63890 | .24570 | 2.60036 |
| .976 | -3.210 | 9.87000 | .67210 | .13047 | -1.1240 | .00250 | .00040 | -.01510 | .63980 | .24375 | 2.62487 |
| .978 | -1.990 | 9.92000 | .68470 | .12908 | -1.1010 | .00080 | .00000 | -.00890 | .65220 | .24511 | 2.66090 |
| .978 | -1.280 | 9.90000 | .68110 | .12804 | -1.0990 | -.00140 | .00060 | -.00550 | .64890 | .24323 | 2.66780 |
| .977 | -.600 | 9.89000 | .67390 | .12791 | -1.1160 | -.00570 | .00110 | -.00250 | .64190 | .24176 | 2.65515 |
| .976 | .550 | 9.90000 | .67670 | .12663 | -1.0970 | -.00710 | .00180 | .00080 | .64490 | .24109 | 2.67495 |
| .976 | 1.620 | 9.89000 | .67550 | .12741 | -1.0970 | -.00070 | .00090 | .00520 | .64350 | .24154 | 2.66417 |
| .977 | 2.330 | 9.90000 | .68030 | .12818 | -1.1060 | -.00310 | .00070 | .00720 | .64810 | .24323 | 2.66450 |
| .978 | 3.140 | 9.90000 | .68090 | .12980 | -1.1100 | -.00430 | .00120 | .01020 | .64840 | .24493 | 2.64725 |
| .978 | 4.120 | 9.90000 | .67740 | .13202 | -1.0970 | -.00630 | .00070 | .01300 | .64460 | .24652 | 2.61481 |
| .976 | 4.530 | 9.90000 | .68590 | .13260 | -1.1390 | -.00470 | -.00230 | .01450 | .65290 | .24895 | 2.62682 |
| .977 | 4.780 | 9.90000 | .68750 | .13512 | -1.1770 | -.00710 | -.00260 | .01620 | .65400 | .25131 | 2.60337 |
| | GRADIENT | .30261 | .00105 | .00025 | -.00023 | -.00096 | -.00023 | .00372 | .00098 | .00045 | -.00082 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 185

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK133) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 260/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| 1.047 | -5.120 | 9.79000 | .67220 | .16009 | -.11800 | .00230 | .00300 | -.02090 | .63520 | .27206 | 2.33480 |
| 1.048 | -4.520 | 9.79000 | .67130 | .15856 | -.11700 | .00140 | .00160 | -.01950 | .63460 | .27040 | 2.34692 |
| 1.046 | -3.540 | 9.79000 | .67330 | .15878 | -.11780 | .00510 | .00270 | -.01700 | .63650 | .27095 | 2.34911 |
| 1.047 | -2.860 | 9.78000 | .67320 | .15816 | -.12010 | -.00100 | .00090 | -.01430 | .63550 | .27021 | 2.35553 |
| 1.048 | -2.530 | 9.79000 | .67430 | .15755 | -.11960 | -.00070 | .00030 | -.01110 | .63770 | .26991 | 2.36262 |
| 1.047 | -1.600 | 9.78000 | .67240 | .15644 | -.11950 | .00060 | .00020 | -.00770 | .63600 | .26838 | 2.36974 |
| 1.048 | -.850 | 9.80000 | .67960 | .15619 | -.11850 | .00150 | .00040 | -.00510 | .64310 | .26959 | 2.38552 |
| 1.048 | .050 | 9.79000 | .67480 | .15606 | -.12080 | .00150 | .00050 | -.00100 | .63850 | .26853 | 2.37777 |
| 1.047 | 1.330 | 9.80000 | .68000 | .15672 | -.12040 | .00030 | .00160 | .00290 | .64340 | .27018 | 2.38141 |
| 1.048 | 2.180 | 9.79000 | .67710 | .15791 | -.12330 | -.00190 | .00140 | .00590 | .64040 | .27074 | 2.36534 |
| 1.047 | 3.880 | 9.80000 | .68330 | .15827 | -.12130 | .00140 | .00120 | .00930 | .64640 | .27226 | 2.37416 |
| 1.048 | 4.350 | 9.79000 | .67780 | .15979 | -.12290 | -.00250 | .00210 | .01310 | .64070 | .27271 | 2.34934 |
| 1.046 | 4.800 | 9.77000 | .67870 | .16016 | -.12030 | -.00520 | .00240 | .01620 | .64160 | .27301 | 2.35011 |
| 1.048 | GRADIENT | -.00119 | .00061 | .00023 | -.00045 | -.00057 | -.00270 | .01750 | .63520 | .27256 | 2.33047 |
| | | | | | | | -.00048 | .00401 | .00056 | .00032 | -.00070 |

RUN NO. 296/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| 1.118 | -5.120 | 9.92000 | .65970 | .15575 | -.11900 | -.00180 | .00290 | -.01860 | .62300 | .26707 | 2.33272 |
| 1.117 | -4.780 | 9.92000 | .65550 | .15478 | -.11680 | -.00430 | .00200 | -.01770 | .61910 | .26539 | 2.33279 |
| 1.117 | -3.840 | 9.91000 | .65470 | .15361 | -.11410 | .00470 | .00250 | -.01660 | .61850 | .26399 | 2.34287 |
| 1.118 | -3.330 | 9.88000 | .64900 | .15260 | -.11420 | -.00290 | .00100 | -.01350 | .61320 | .26170 | 2.34318 |
| 1.117 | -2.400 | 9.92000 | .64870 | .15266 | -.11590 | -.00050 | .00080 | -.00990 | .61270 | .26213 | 2.33738 |
| 1.117 | -1.460 | 9.94000 | .65590 | .15203 | -.11470 | -.00050 | .00120 | -.00640 | .61980 | .26297 | 2.35695 |
| 1.118 | -.990 | 9.92000 | .65110 | .15217 | -.11560 | -.00650 | .00060 | -.00330 | .61510 | .26206 | 2.34716 |
| 1.117 | .030 | 9.93000 | .65200 | .15185 | -.11650 | -.00400 | .00080 | -.00060 | .61610 | .26201 | 2.35144 |
| 1.117 | 1.040 | 9.87000 | .65210 | .15238 | -.11640 | -.00500 | .00110 | .00200 | .61630 | .26190 | 2.35316 |
| 1.116 | 1.820 | 9.86000 | .64320 | .15273 | -.11700 | -.00770 | .00200 | .00530 | .61340 | .26164 | 2.34441 |
| 1.117 | 2.510 | 9.93000 | .65200 | .15337 | -.11770 | -.00170 | .00130 | .00780 | .61580 | .26351 | 2.33694 |
| 1.116 | 3.340 | 9.93000 | .65550 | .15378 | -.11720 | -.00380 | .00210 | .01050 | .61910 | .26451 | 2.34052 |
| 1.117 | 4.740 | 9.93000 | .65540 | .15636 | -.11920 | -.00380 | .00250 | .01550 | .61860 | .26704 | 2.31652 |
| 1.117 | 5.020 | 9.93000 | .66310 | .15662 | -.11880 | -.00100 | .00210 | .01640 | .62610 | .26862 | 2.33079 |
| 1.117 | GRADIENT | .00059 | .00011 | .00012 | -.00038 | -.00043 | -.00053 | .00359 | .00007 | .00015 | -.00100 |

(RUK134) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 207/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALL IRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| 1.197 | -5.090 | 4.54000 | 33560 | .15714 | -.07800 | -.00150 | .00410 | -.01280 | .32210 | .18321 | 1.75808 |
| 1.198 | -4.530 | 4.54000 | 33160 | .15629 | -.07820 | -.00340 | .00340 | -.01180 | .31810 | .18205 | 1.74735 |
| 1.196 | -3.580 | 4.53000 | 33260 | .15545 | -.07610 | -.00540 | .00220 | -.01020 | .31920 | .18134 | 1.76018 |
| 1.198 | -3.100 | 4.54000 | 33340 | .15440 | -.07570 | -.00180 | .00180 | -.00810 | .32020 | .18031 | 1.77587 |
| 1.198 | -2.510 | 4.54000 | 32680 | .15418 | -.07650 | -.00210 | .00200 | -.00580 | .31360 | .17956 | 1.74645 |
| 1.197 | -1.500 | 4.54000 | 32970 | .15368 | -.07630 | -.01190 | -.00030 | -.00360 | .31650 | .17930 | 1.76525 |
| 1.198 | -.900 | 4.53000 | 33060 | .15293 | -.07460 | -.00370 | .00040 | -.00130 | .31740 | .17867 | 1.77642 |
| 1.198 | .340 | 4.54000 | 32610 | .15279 | -.07550 | .00360 | .00080 | .00090 | .31300 | .17812 | 1.75721 |
| 1.196 | 1.350 | 4.53000 | 32510 | .15358 | -.07750 | .00000 | -.00030 | .00280 | .31190 | .17878 | 1.74463 |
| 1.197 | 1.620 | 4.53000 | 32750 | .15364 | -.07620 | -.00110 | -.00010 | .00520 | .31440 | .17903 | 1.75617 |
| 1.198 | 2.700 | 4.54000 | 33510 | .15375 | -.07870 | .00390 | -.00040 | .00700 | .32190 | .17979 | 1.79040 |
| 1.196 | 3.670 | 4.54000 | 33320 | .15450 | -.07970 | -.00180 | -.00160 | .00890 | .31990 | .18039 | 1.77338 |
| 1.198 | 4.110 | 4.53000 | 32880 | .15488 | -.07910 | -.00180 | -.00070 | .01000 | .31550 | .18037 | 1.74923 |
| 1.197 | 4.440 | 4.54000 | 33300 | .15540 | -.07960 | -.00520 | -.00310 | .01110 | .31970 | .18127 | 1.76366 |
| 1.198 | 4.940 | 4.54000 | 33400 | .15649 | -.08140 | -.00500 | -.00430 | .01280 | .32050 | .18244 | 1.75677 |
| | GRADIENT | -.00082 | .00014 | .00002 | -.00050 | .00034 | -.00058 | .00255 | .00014 | .00003 | .00049 |

DATE 01 MAR 77

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (RUK135) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 15.000
 CRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 120/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .596 | -5.010 | 14.48000 | .87610 | .02266 | -.06780 | .01490 | -.00070 | -.01760 | .84250 | .24100 | 3.49582 |
| .597 | -4.100 | 14.49000 | .87630 | .02163 | -.06940 | .01450 | -.00110 | -.01470 | .84300 | .24020 | 3.50955 |
| .597 | -3.120 | 14.48000 | .87450 | .02068 | -.06990 | .01090 | -.00120 | -.01130 | .84160 | .23868 | 3.52599 |
| .597 | -2.790 | 14.49000 | .88160 | .01938 | -.06880 | .00770 | -.00070 | -.00770 | .84870 | .23935 | 3.54586 |
| .597 | -1.500 | 14.52000 | .88560 | .01920 | -.06920 | .00540 | -.00060 | -.00430 | .85250 | .24062 | 3.54289 |
| .596 | -.670 | 14.54000 | .88730 | .01877 | -.07040 | .00120 | -.00000 | -.00060 | .85410 | .24093 | 3.54500 |
| .597 | .450 | 14.55000 | .88990 | .01909 | -.07030 | .00140 | -.00000 | -.00320 | .85260 | .24104 | 3.53720 |
| .598 | 1.600 | 14.55000 | .88770 | .01959 | -.07090 | -.00400 | -.00010 | -.00740 | .85430 | .24197 | 3.53055 |
| .597 | 2.360 | 14.50000 | .89010 | .02018 | -.06950 | -.00920 | -.00040 | -.01050 | .85240 | .24240 | 3.53382 |
| .597 | 3.090 | 14.52000 | .88740 | .02079 | -.07210 | -.00820 | -.00050 | -.01320 | .85380 | .24261 | 3.51918 |
| .596 | 3.930 | 14.53000 | .89220 | .02127 | -.07190 | -.01190 | -.00050 | -.01600 | .85830 | .24443 | 3.51142 |
| .597 | 4.370 | 14.47000 | .88670 | .02273 | -.07340 | -.01440 | -.00070 | -.01830 | .85280 | .24357 | 3.50123 |
| .597 | 5.030 | 14.50000 | .88880 | .02237 | -.07090 | -.01340 | -.00020 | -.01940 | .85490 | .24420 | 3.50089 |
| | GRADIENT | .00203 | .00153 | .00014 | -.00044 | -.00322 | -.00022 | .00380 | .00143 | .00055 | -.00212 |

RUN NO. 100/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|---------|---------|---------|---------|---------|--------|--------|---------|
| .896 | -5.100 | 14.73000 | .88330 | .10067 | -.10120 | -.00070 | -.00300 | -.01610 | .82860 | .32195 | 2.57367 |
| .896 | -4.490 | 14.71000 | .88510 | .10009 | -.10020 | -.00180 | -.00260 | -.01500 | .83060 | .32156 | 2.58303 |
| .897 | -3.750 | 14.71000 | .88630 | .09932 | -.10230 | -.00170 | -.00220 | -.01280 | .83200 | .32112 | 2.59093 |
| .895 | -3.030 | 14.71000 | .88780 | .09780 | -.10300 | -.00110 | -.00200 | -.01040 | .83380 | .32003 | 2.60538 |
| .896 | -1.780 | 14.72000 | .89610 | .09679 | -.10590 | -.00120 | -.00070 | -.00630 | .84210 | .32131 | 2.62085 |
| .896 | -1.410 | 14.73000 | .89340 | .09665 | -.10750 | -.00020 | -.00010 | -.00360 | .83940 | .32063 | 2.61794 |
| .895 | -.580 | 14.71000 | .88900 | .09615 | -.10890 | -.00170 | -.00050 | -.00120 | .83540 | .31874 | 2.62095 |
| .896 | 1.390 | 14.73000 | .89660 | .09636 | -.10780 | -.00000 | -.00090 | -.00120 | .84260 | .32117 | 2.62356 |
| .896 | 2.340 | 14.73000 | .88880 | .09639 | -.10590 | -.00020 | -.00150 | -.00350 | .83510 | .31892 | 2.61852 |
| .896 | 3.300 | 14.72000 | .89300 | .09694 | -.10520 | -.00140 | -.00220 | -.00630 | .83890 | .32081 | 2.61493 |
| .896 | 3.990 | 14.72000 | .89090 | .09714 | -.10410 | -.00150 | -.00270 | -.00870 | .83700 | .32033 | 2.61297 |
| .896 | 4.920 | 14.73000 | .89480 | .09849 | -.10270 | -.00110 | -.00350 | -.01160 | .83520 | .32125 | 2.59984 |
| | GRADIENT | .00158 | .00055 | -.00004 | -.00018 | -.00260 | -.00360 | .01370 | .83990 | .32433 | 2.58968 |
| | | | | | | | | | .00054 | .00012 | .00068 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK135) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 ROODER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 181/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .948 | -5.080 | 14.94000 | .94850 | .11860 | -.12740 | -.00780 | .00000 | -.01330 | .88580 | .35912 | 2.46658 |
| .948 | -4.190 | 14.94000 | .94640 | .11642 | -.12540 | -.00950 | -.00030 | -.01120 | .88440 | .35647 | 2.48097 |
| .947 | -3.070 | 14.93000 | .94960 | .11410 | -.13200 | -.00560 | -.00130 | -.00700 | .88800 | .35490 | 2.50210 |
| .948 | -2.270 | 14.94000 | .95160 | .11312 | -.13320 | -.00490 | -.00170 | -.00470 | .89020 | .35463 | 2.51025 |
| .948 | -1.330 | 14.93000 | .95150 | .11313 | -.13540 | -.01140 | -.00360 | -.00230 | .89020 | .35445 | 2.51147 |
| .947 | -.460 | 14.93000 | .95340 | .11229 | -.13520 | -.00730 | -.00380 | -.00020 | .89230 | .35413 | 2.51968 |
| .947 | .180 | 14.93000 | .95180 | .11178 | -.13560 | -.00440 | -.00470 | .00210 | .89080 | .35323 | 2.52189 |
| .948 | 1.020 | 14.94000 | .95530 | .11261 | -.13410 | -.00760 | -.00500 | .00440 | .89400 | .35509 | 2.51769 |
| .948 | 1.930 | 14.94000 | .95820 | .11364 | -.13380 | -.00590 | -.00680 | .00660 | .89640 | .35683 | 2.51212 |
| .948 | 2.770 | 14.94000 | .96220 | .11473 | -.13220 | -.00190 | -.00710 | .00950 | .90310 | .35891 | 2.50784 |
| .947 | 3.920 | 14.90000 | .95150 | .11603 | -.13340 | -.00220 | -.00840 | .01170 | .88970 | .35679 | 2.49362 |
| .946 | 4.930 | 14.96000 | .95500 | .11680 | -.13110 | -.00220 | -.00910 | .01500 | .89250 | .35937 | 2.48352 |
| | GRADIENT | .00009 | .00098 | .00017 | -.00028 | .00072 | -.00100 | .00280 | .00091 | .00042 | -.00038 |

RUN NO. 275/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| .978 | -5.030 | 14.87000 | .96660 | .14039 | -.13390 | .00110 | .00090 | -.01760 | .89810 | .38374 | 2.34036 |
| .977 | -4.730 | 14.87000 | .96340 | .13873 | -.13390 | .00220 | .00090 | -.01660 | .89550 | .38132 | 2.34843 |
| .976 | -3.890 | 14.87000 | .96060 | .13581 | -.13110 | .00290 | -.00010 | -.01450 | .89350 | .37778 | 2.36515 |
| .976 | -3.200 | 14.87000 | .96360 | .13452 | -.13190 | .00160 | -.00010 | -.01130 | .89680 | .37730 | 2.37688 |
| .977 | -2.470 | 14.87000 | .96370 | .13270 | -.13420 | .00360 | -.00010 | -.00850 | .89740 | .37557 | 2.38945 |
| .977 | -1.600 | 14.88000 | .97180 | .13211 | -.13490 | .00100 | -.00120 | -.00580 | .90520 | .37723 | 2.39957 |
| .977 | -.790 | 14.91000 | .96870 | .13191 | -.13760 | .00240 | -.00060 | -.00240 | .90210 | .37672 | 2.39464 |
| .978 | .240 | 14.88000 | .97570 | .13197 | -.13780 | .00210 | -.00170 | .00030 | .90910 | .37810 | 2.40439 |
| .977 | 1.280 | 14.88000 | .97200 | .13185 | -.13750 | .00180 | -.00150 | .00340 | .90560 | .37703 | 2.40191 |
| .976 | 2.060 | 14.88000 | .97120 | .13315 | -.13850 | -.00800 | -.00330 | .00590 | .90440 | .37808 | 2.39206 |
| .977 | 2.830 | 14.89000 | .97020 | .13490 | -.13710 | -.00230 | -.00200 | .00860 | .90290 | .37968 | 2.37808 |
| .977 | 4.160 | 14.90000 | .97100 | .13765 | -.13710 | -.00340 | -.00290 | .01130 | .90290 | .38270 | 2.35930 |
| .976 | 4.650 | 14.91000 | .97570 | .13834 | -.13590 | -.00110 | -.00260 | .01460 | .90720 | .38473 | 2.35801 |
| | GRADIENT | .00343 | .00126 | .00009 | -.00067 | .00071 | -.00038 | .00326 | .00117 | .00047 | -.00015 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK135) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 261 / 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | ALLRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| 1.046 | -5.160 | 14.71000 | .94530 | .15905 | -.13510 | .00340 | .00210 | -.01820 | .87390 | .39387 | 2.21873 |
| 1.048 | -4.300 | 14.71000 | .94870 | .15875 | -.13500 | .00080 | .00170 | -.01600 | .87730 | .39445 | 2.22413 |
| 1.046 | -3.180 | 14.73000 | .95590 | .15750 | -.13480 | -.00010 | .00120 | -.01350 | .88440 | .39538 | 2.23686 |
| 1.047 | -2.120 | 14.71000 | .95010 | .15615 | -.13630 | .00370 | .00060 | -.00820 | .87930 | .39229 | 2.24147 |
| 1.046 | -1.170 | 14.74000 | .95060 | .15508 | -.13660 | .00270 | .00030 | -.00550 | .87980 | .39184 | 2.24530 |
| 1.048 | -.520 | 14.76000 | .95970 | .15417 | -.13680 | .00420 | -.00050 | -.00310 | .88870 | .39359 | 2.25796 |
| 1.047 | .360 | 14.74000 | .95170 | .15462 | -.13780 | -.00310 | -.00140 | -.00020 | .88100 | .39168 | 2.24931 |
| 1.048 | 1.580 | 14.73000 | .94530 | .15485 | -.13690 | -.00120 | -.00170 | .00280 | .87480 | .39012 | 2.24240 |
| 1.047 | 1.940 | 14.76000 | .95980 | .15502 | -.13750 | -.00250 | .00210 | .00540 | .88860 | .39443 | 2.25285 |
| 1.047 | 2.840 | 14.76000 | .95920 | .15624 | -.13900 | -.00370 | .00260 | .00800 | .88780 | .39546 | 2.24498 |
| 1.048 | 3.730 | 14.75000 | .95650 | .15742 | -.13860 | .00160 | -.00170 | .01100 | .88480 | .39576 | 2.23570 |
| 1.046 | 4.710 | 14.75000 | .95630 | .15821 | -.13800 | -.00310 | -.00240 | .01290 | .88450 | .39647 | 2.23093 |
| 1.048 | 4.960 | 14.73000 | .95950 | .16027 | -.14260 | .00240 | -.00150 | .01430 | .88720 | .39897 | 2.22373 |
| | GRADIENT | .00325 | .00078 | .00013 | -.00055 | -.00032 | -.00043 | .00330 | .00070 | .00038 | -.00037 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK136) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000
 BETA = .000 ALPHA = 15.000
 CRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 206/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|---------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 1.198 | -5.020 | -.12000 | .04140 | .15858 | -.02090 | -.00530 | .00310 | -.01180 | .04170 | .15849 | .26310 |
| 1.197 | -4.160 | -.11000 | .04510 | .15738 | -.02050 | -.00480 | .00250 | -.01080 | .04540 | .15729 | .28863 |
| 1.197 | -3.090 | -.11000 | .04590 | .15596 | -.01900 | -.00090 | .00240 | -.00890 | .04620 | .15587 | .29640 |
| 1.198 | -2.100 | -.12000 | .03990 | .15558 | -.01700 | -.00380 | .00130 | -.00490 | .04020 | .15550 | .25853 |
| 1.197 | -1.240 | -.13000 | .03440 | .15521 | -.01720 | -.00150 | .00140 | -.00300 | .03480 | .15513 | .22433 |
| 1.198 | -.550 | -.12000 | .04010 | .15479 | -.01570 | -.00430 | .00040 | -.00100 | .04040 | .15471 | .26114 |
| 1.198 | .520 | -.10000 | .04260 | .15450 | -.01580 | -.01090 | -.00130 | .00080 | .04290 | .15443 | .27780 |
| 1.197 | 1.460 | -.12000 | .03640 | .15525 | -.01620 | -.00530 | .00270 | .00270 | .03670 | .15517 | .23651 |
| 1.198 | 1.850 | -.10000 | .04650 | .15586 | -.01870 | -.00910 | .00100 | .00430 | .04680 | .15578 | .30043 |
| 1.197 | 2.720 | -.12000 | .04050 | .15589 | -.01910 | -.00510 | -.00110 | .00600 | .04090 | .15680 | .26251 |
| 1.197 | 3.550 | -.11000 | .04470 | .15650 | -.02070 | -.00580 | -.00300 | .00760 | .04500 | .15641 | .28770 |
| 1.198 | 4.580 | -.11000 | .04290 | .15699 | -.02030 | -.00360 | -.00070 | .00960 | .04320 | .15691 | .27532 |
| 1.197 | 5.130 | -.11000 | .04740 | .15851 | -.02410 | -.00480 | -.00090 | .01090 | .04780 | .15842 | .30173 |
| | GRADIENT | .00058 | .00001 | .00002 | -.00014 | .00038 | -.00050 | .00235 | .00001 | .00002 | .00007 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 121: 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALLRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .597 | -4.950 | 19.20000 | 1.16560 | .03524 | -.09110 | .01810 | -.00040 | -.01850 | 1.08910 | .41661 | 2.61422 |
| .597 | -3.890 | 19.20000 | 1.16590 | .03415 | -.09230 | .01460 | -.00050 | -.01490 | 1.09070 | .41600 | 2.62184 |
| .596 | -3.030 | 19.20000 | 1.16550 | .03278 | -.09240 | .01180 | -.00010 | -.01230 | 1.08980 | .41425 | 2.63077 |
| .597 | -2.710 | 19.21000 | 1.17020 | .03205 | -.09200 | .01150 | .00000 | -.06930 | 1.09450 | .41530 | 2.63546 |
| .597 | -1.490 | 19.20000 | 1.16360 | .03141 | -.09100 | .00560 | .00000 | -.00560 | 1.08850 | .41233 | 2.63986 |
| .597 | -.540 | 19.24000 | 1.16340 | .03100 | -.09290 | .00490 | .00010 | -.00260 | 1.09000 | .41330 | 2.63732 |
| .597 | .560 | 19.23000 | 1.16890 | .03090 | -.09330 | .00590 | .00000 | .00090 | 1.09340 | .41417 | 2.64000 |
| .596 | 1.600 | 19.22000 | 1.17140 | .03107 | -.09330 | .00030 | -.00030 | .00400 | 1.09580 | .41496 | 2.64074 |
| .597 | 2.570 | 19.18000 | 1.17120 | .03084 | -.09060 | .00050 | .00020 | .00780 | 1.09610 | .41391 | 2.64816 |
| .597 | 3.480 | 19.20000 | 1.17320 | .03204 | -.09260 | -.00070 | .00000 | .01060 | 1.09730 | .41608 | 2.63721 |
| .596 | 4.040 | 19.19000 | 1.16730 | .03328 | -.09460 | -.00330 | -.00020 | .01340 | 1.09150 | .41512 | 2.62933 |
| .597 | 5.030 | 19.21000 | 1.18140 | .03393 | -.09240 | -.00580 | .00020 | .01500 | 1.10440 | .42076 | 2.62478 |
| | GRADIENT | -.00067 | .00059 | -.00025 | -.00016 | -.00222 | .00003 | .00347 | .00065 | -.00006 | .00194 |

RUN NO. 101: 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALLRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| .897 | -5.070 | 19.56000 | 1.10770 | .10381 | -.09240 | -.01330 | .00580 | -.00850 | 1.00890 | .46867 | 2.15269 |
| .896 | -4.460 | 19.55000 | 1.10470 | .10368 | -.09470 | -.01270 | .00570 | -.00790 | 1.00630 | .46737 | 2.15312 |
| .896 | -3.710 | 19.56000 | 1.10340 | .10215 | -.09640 | -.01210 | .00460 | -.00630 | 1.00550 | .46567 | 2.15927 |
| .897 | -3.070 | 19.56000 | 1.10980 | .10163 | -.09580 | -.01100 | .00420 | -.00500 | 1.01160 | .46732 | 2.16469 |
| .896 | -1.550 | 19.56000 | 1.10820 | .09967 | -.09880 | -.00630 | .00260 | -.00220 | 1.01090 | .46494 | 2.17427 |
| .896 | -1.310 | 19.55000 | 1.10730 | .09988 | -.10060 | -.00580 | .00180 | -.00040 | 1.01030 | .46371 | 2.17871 |
| .896 | -.380 | 19.58000 | 1.11960 | .09819 | -.09680 | -.00390 | .00070 | .00080 | 1.02200 | .46772 | 2.18509 |
| .896 | .700 | 19.57000 | 1.11580 | .09783 | -.09690 | -.00420 | .00030 | .00210 | 1.01850 | .46593 | 2.18597 |
| .896 | 1.730 | 19.57000 | 1.11250 | .09692 | -.09670 | -.00100 | -.00090 | .00400 | 1.01510 | .46585 | 2.17904 |
| .896 | 2.660 | 19.57000 | 1.11070 | .09824 | -.09490 | .00040 | -.00160 | .00530 | 1.01330 | .46555 | 2.17659 |
| .896 | 3.820 | 19.58000 | 1.11310 | .10053 | -.09390 | .00350 | -.00260 | .00700 | 1.01510 | .46774 | 2.17021 |
| .897 | 4.480 | 19.57000 | 1.10790 | .10217 | -.09410 | .00360 | -.00380 | .00890 | 1.00960 | .46737 | 2.16018 |
| .896 | 4.970 | 19.58000 | 1.11510 | .10303 | -.09300 | .00630 | -.00420 | .00910 | 1.01610 | .47077 | 2.15839 |
| | GRADIENT | .00255 | .00075 | -.00006 | .00033 | -.00194 | -.00101 | .00178 | .00071 | .00024 | .00043 |

(RUK137) (24 FEB 77)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 180/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00
 RUN NO. 276/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .947 | -5.070 | 19.82000 | 1.15970 | .12218 | -.11420 | -.02580 | .00850 | -.00430 | 1.04950 | .50816 | 2.06530 |
| .947 | -4.500 | 19.80000 | 1.15290 | .12125 | -.11990 | -.01680 | .00810 | -.00440 | 1.04350 | .50461 | 2.06812 |
| .948 | -3.320 | 19.84000 | 1.16710 | .12099 | -.11720 | -.00640 | .00350 | -.00350 | 1.05670 | .50992 | 2.07230 |
| .948 | -2.950 | 19.84000 | 1.17670 | .11881 | -.11070 | -.01070 | .00420 | -.00330 | 1.06650 | .51112 | 2.08658 |
| .946 | -2.210 | 19.84000 | 1.17210 | .11763 | -.10410 | -.00250 | .00290 | -.00290 | 1.06250 | .50845 | 2.08967 |
| .947 | -1.210 | 19.84000 | 1.17630 | .11815 | -.12190 | -.00310 | .00090 | -.00230 | 1.06630 | .51037 | 2.08928 |
| .948 | -.570 | 19.84000 | 1.17800 | .11856 | -.12110 | .00410 | .00000 | -.00200 | 1.06780 | .51133 | 2.08828 |
| .947 | .670 | 19.83000 | 1.17320 | .11727 | -.12460 | .00320 | -.00160 | -.00020 | 1.06380 | .50830 | 2.09285 |
| .948 | 1.480 | 19.84000 | 1.17930 | .11853 | -.12330 | -.00150 | -.00490 | -.00050 | 1.06900 | .51174 | 2.08894 |
| .947 | 4.510 | 19.85000 | 1.17910 | .11915 | -.11430 | .02040 | -.00710 | .00300 | 1.06860 | .51244 | 2.08530 |
| .948 | 4.980 | 19.82000 | 1.16070 | .12275 | -.12230 | .01630 | -.00780 | .00340 | 1.05030 | .50903 | 2.06332 |
| | GRADIENT | .00107 | .00070 | .00007 | -.00010 | .00369 | -.00167 | .00083 | .00063 | .00032 | -.00008 |

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|------|----------|----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .977 | -5.130 | 19.64000 | 1.21050 | .14127 | -.13600 | -.01360 | .00750 | -.01020 | 1.09250 | .53991 | 2.02348 |
| .976 | -4.840 | 19.63000 | 1.20810 | .14017 | -.13760 | -.01340 | .00660 | -.00930 | 1.09080 | .53788 | 2.02797 |
| .976 | -3.360 | 19.62000 | 1.21120 | .13964 | -.13980 | -.01260 | .00590 | -.00690 | 1.09400 | .53823 | 2.03259 |
| .977 | -3.080 | 19.62000 | 1.21610 | .13843 | -.14210 | -.01180 | .00400 | -.00550 | 1.09890 | .53874 | 2.03978 |
| .978 | -2.140 | 19.63000 | 1.22120 | .13791 | -.14500 | -.00880 | .00360 | -.00320 | 1.10390 | .54015 | 2.04369 |
| .979 | -1.190 | 19.63000 | 1.22290 | .13919 | -.14960 | -.00410 | .00370 | -.00120 | 1.10500 | .54193 | 2.03902 |
| .977 | -.500 | 19.62000 | 1.22240 | .13723 | -.15010 | -.00900 | .00130 | .00000 | 1.10530 | .53972 | 2.04791 |
| .977 | .280 | 19.62000 | 1.22590 | .13652 | -.15070 | -.00230 | .00070 | .00200 | 1.10870 | .54023 | 2.05229 |
| .977 | 1.270 | 19.63000 | 1.23070 | .13812 | -.15190 | -.00230 | -.00010 | .00380 | 1.11270 | .54354 | 2.04714 |
| .976 | 1.800 | 19.62000 | 1.22640 | .13763 | -.14980 | -.00160 | .00160 | .00450 | 1.10890 | .54144 | 2.04806 |
| .976 | 2.760 | 19.62000 | 1.22190 | .13837 | -.14810 | -.00090 | -.00320 | .00640 | 1.10450 | .54063 | 2.04300 |
| .978 | 3.810 | 19.63000 | 1.22520 | .14031 | -.14720 | .00000 | -.00320 | .00880 | 1.10680 | .54375 | 2.03548 |
| .977 | 4.580 | 19.64000 | 1.22420 | .14125 | -.14720 | .00150 | -.00420 | .00960 | 1.10550 | .54450 | 2.03031 |
| .976 | 4.970 | 19.62000 | 1.21740 | .14189 | -.14400 | .00600 | -.00570 | .00930 | 1.09910 | .54243 | 2.02625 |
| | GRADIENT | .00031 | .00120 | .00017 | -.00073 | .00180 | -.00124 | .00199 | .00107 | .00057 | -.00016 |

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 193

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK137) (24 FEB 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 262 / 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | AILRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.047 | -4.970 | 19.18000 | 1.20900 | .16691 | -.16250 | -.00180 | .00490 | -.01240 | 1.08710 | .55485 | 1.95928 |
| 1.048 | -4.380 | 19.18000 | 1.20740 | .16461 | -.15850 | -.00050 | .00470 | -.01140 | 1.08620 | .55215 | 1.96723 |
| 1.048 | -3.090 | 19.18000 | 1.20660 | .16193 | -.16020 | .00410 | .00390 | -.00770 | 1.08640 | .54935 | 1.97759 |
| 1.047 | -2.270 | 19.17000 | 1.20600 | .16091 | -.16110 | .00170 | .00270 | -.00590 | 1.08620 | .54800 | 1.98210 |
| 1.048 | -1.490 | 19.20000 | 1.21270 | .15974 | -.16000 | -.00010 | .00070 | -.00390 | 1.09270 | .54967 | 1.98792 |
| 1.047 | -.510 | 19.23000 | 1.21280 | .15960 | -.16280 | -.00040 | .00000 | -.00120 | 1.09250 | .55014 | 1.98584 |
| 1.049 | 1.430 | 19.24000 | 1.21390 | .15937 | -.16230 | .00210 | -.00110 | .00050 | 1.09360 | .55048 | 1.98663 |
| 1.046 | 2.250 | 19.17000 | 1.21190 | .15911 | -.16240 | .00250 | -.00190 | .00250 | 1.09240 | .54824 | 1.99255 |
| 1.048 | 3.050 | 19.16000 | 1.21070 | .15960 | -.16100 | .00350 | -.00290 | .00530 | 1.09120 | .54812 | 1.99081 |
| 1.049 | 4.220 | 19.16000 | 1.20730 | .16066 | -.16340 | .00800 | -.00260 | .00730 | 1.08760 | .54800 | 1.98465 |
| 1.048 | 4.890 | 19.21000 | 1.20760 | .16206 | -.16440 | .00440 | -.00440 | .00900 | 1.08740 | .54943 | 1.97916 |
| 1.048 | GRADIENT | -.00053 | 1.21570 | .16434 | -.16420 | .00410 | -.00530 | .01090 | 1.09390 | .55519 | 1.97031 |
| | | | .00039 | -.00027 | -.00039 | .00060 | -.00106 | .00238 | .00045 | -.00014 | .00131 |

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L =
 BETA =
 GRIT =
 RUDDER =

4.000 ELEVON = 10.000
 .000 ALPHA = 20.000
 1.000 SPOBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 205/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALLRON | ALPHA | CN | CA | CLM | CY | CYN | CBL | CL | CD | L/D |
|-------|----------|----------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| 1.197 | -5.030 | 19.03000 | 1.12790 | .15459 | -.15670 | -.00270 | .00320 | -.01250 | 1.01580 | .51391 | 1.97662 |
| 1.198 | -3.560 | 19.03000 | 1.12270 | .15230 | -.15770 | -.00320 | .00250 | -.00990 | 1.01170 | .51005 | 1.98354 |
| 1.197 | -2.930 | 19.02000 | 1.12080 | .15161 | -.15890 | -.00150 | .00270 | -.00790 | 1.01020 | .50860 | 1.98624 |
| 1.199 | -1.990 | 19.02000 | 1.12250 | .14977 | -.15910 | -.00120 | .00210 | -.00530 | 1.01230 | .50741 | 1.99502 |
| 1.197 | -1.120 | 19.03000 | 1.12710 | .14919 | -.15870 | -.00260 | .00050 | -.00330 | 1.01680 | .50854 | 1.99944 |
| 1.198 | -.300 | 19.01000 | 1.12380 | .14867 | -.15990 | -.00210 | .00120 | -.00160 | 1.01400 | .50662 | 2.00150 |
| 1.197 | .450 | 19.02000 | 1.12300 | .14857 | -.16010 | -.00150 | .00010 | -.00000 | 1.01320 | .50644 | 2.00062 |
| 1.198 | 1.490 | 19.02000 | 1.12240 | .14868 | -.15950 | -.00450 | -.00240 | .00200 | 1.01260 | .50635 | 1.99980 |
| 1.197 | 2.000 | 19.03000 | 1.12640 | .14913 | -.16000 | -.00080 | -.00240 | .00360 | 1.01620 | .50826 | 1.99338 |
| 1.197 | 2.770 | 19.02000 | 1.12290 | .14961 | -.15910 | -.00230 | -.00310 | .00570 | 1.01280 | .50739 | 1.99609 |
| 1.198 | 3.900 | 19.02000 | 1.12650 | .15027 | -.15690 | -.00110 | -.00380 | .00730 | 1.01590 | .50937 | 1.99443 |
| 1.197 | 4.800 | 19.03000 | 1.12410 | .15205 | -.15930 | -.00490 | -.00500 | .00680 | 1.01310 | .51027 | 1.98543 |
| 1.197 | 5.080 | 19.03000 | 1.12860 | .15419 | -.16190 | -.00140 | -.00440 | .00980 | 1.01660 | .51376 | 1.97875 |
| | GRADIENT | .00057 | .00031 | -.00007 | -.00002 | -.00014 | -.00097 | .00223 | .00031 | .00004 | .00045 |

PARAMETRIC DATA

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK001) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 8/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|--------|----------|--------|---------|
| .598 | -2.160 | -.01000 | .00400 | -.01000 | .03068 | -.21300 | -.20700 | .00460 | 17.90470 | .02172 | .01171 |
| .598 | .050 | -.01000 | .00000 | -.01000 | .03252 | -.21400 | -.20700 | .00310 | 22.12830 | .02181 | .01167 |
| .598 | 2.200 | -.01000 | .03000 | -.02000 | .02885 | -.21400 | -.20400 | .00510 | 13.02510 | .02181 | .01149 |
| .598 | 4.250 | -.03000 | .00000 | -.01000 | .02239 | -.21400 | -.20100 | .00430 | 14.84550 | .02183 | .01135 |
| .598 | 6.410 | -.06000 | .00000 | -.03000 | .01223 | -.21400 | -.19800 | .00480 | 15.37250 | .02176 | .01120 |
| .598 | 8.540 | -.06000 | -.01000 | -.02000 | -.00258 | -.21600 | -.19800 | .00450 | 15.64950 | .02204 | .01116 |
| .597 | 10.570 | -.02000 | .00000 | .00000 | -.01529 | -.22100 | -.20100 | .00310 | 15.73000 | .02247 | .01136 |
| .598 | 11.720 | -.06000 | .03000 | -.05000 | -.02348 | -.22200 | -.20500 | .00430 | 15.78200 | .02262 | .01158 |
| .598 | 12.810 | -.06000 | .00000 | -.03000 | -.02167 | -.23000 | -.21200 | .00680 | 15.85250 | .02343 | .01195 |
| .598 | 13.760 | -.02000 | .00000 | -.02000 | -.02196 | -.23700 | -.21600 | .01110 | 15.90330 | .02417 | .01232 |
| .598 | 14.840 | -.06000 | .00000 | -.02000 | -.02361 | -.24300 | -.22100 | .00650 | 15.93470 | .02475 | .01247 |
| .597 | 15.910 | -.04000 | .00000 | -.01000 | -.02181 | -.25400 | -.22900 | .01170 | 16.00430 | .02581 | .01293 |
| .597 | 16.900 | -.03000 | .00000 | -.02000 | -.02183 | -.26300 | -.24300 | .01280 | 16.04800 | .02682 | .01368 |
| .597 | 19.080 | -.06000 | -.01000 | -.02000 | -.02457 | -.28800 | -.26800 | .01460 | 16.15540 | .02927 | .01514 |
| .597 | GRADIENT | -.00277 | .00146 | -.00049 | -.00132 | -.00014 | .00098 | .00005 | -.85272 | .00002 | -.00006 |

RUN NO. 7/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|---------|----------|--------|---------|
| .798 | -2.320 | -.02000 | .04000 | -.03000 | .03276 | -.22600 | -.21400 | .00740 | 17.85520 | .02302 | .01207 |
| .798 | -.040 | -.02000 | .02000 | -.02000 | .03439 | -.22400 | -.21000 | .00600 | 21.26180 | .02285 | .01189 |
| .796 | 2.130 | -.02000 | .02000 | -.02000 | .03109 | -.22800 | -.21100 | .00520 | 12.15810 | .02318 | .01192 |
| .794 | 4.220 | -.02000 | .03000 | -.03000 | .02599 | -.22600 | -.20700 | .00520 | 14.83210 | .02305 | .01166 |
| .796 | 6.390 | -.05000 | .03000 | -.04000 | .01995 | -.22600 | -.20500 | .00360 | 15.55700 | .02305 | .01158 |
| .795 | 8.590 | -.03000 | .04000 | -.04000 | .01602 | -.23300 | -.20800 | .00430 | 15.75250 | .02372 | .01172 |
| .795 | 10.630 | -.06000 | .03000 | -.05000 | .01456 | -.24100 | -.21400 | .01240 | 15.79020 | .02456 | .01210 |
| .795 | 11.750 | -.06000 | .01000 | -.04000 | .01510 | -.24900 | -.22000 | .00970 | 15.82650 | .02535 | .01240 |
| .795 | 12.690 | -.07000 | .00000 | -.04000 | .01576 | -.25800 | -.22600 | .01170 | 15.90250 | .02624 | .01278 |
| .795 | 13.820 | -.01000 | .01000 | -.01000 | .01567 | -.26700 | -.23600 | .01100 | 15.99800 | .02719 | .01329 |
| .796 | 14.870 | -.06000 | .00000 | -.03000 | .01617 | -.27700 | -.24600 | .01600 | 16.06530 | .02815 | .01389 |
| .795 | 15.940 | -.06000 | .00000 | -.02000 | .01465 | -.28500 | -.25800 | .01560 | 16.11330 | .02901 | .01453 |
| .796 | 16.980 | -.04000 | .00000 | -.01000 | .01384 | -.29500 | -.26900 | .01100 | 16.13510 | .03003 | .01518 |
| .795 | 19.110 | -.05000 | -.01000 | -.01000 | .01042 | -.31100 | -.29200 | .01510 | 16.12090 | .03163 | .01646 |
| .795 | GRADIENT | .00000 | -.00144 | .00004 | -.00107 | -.00018 | .00092 | -.00031 | -.83069 | .00002 | -.00005 |

(SUK002) (26 FEB 76)

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 3.500 ELEVON = .000
 AILRON = .000 BETA = 2.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 9/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|
| .598 | -2.350 | -.01000 | .01000 | -.01000 | .02976 | -.21900 | -.21400 | .00420 | 17.65810 | .02233 | .01205 |
| .598 | -.120 | -.03000 | -.01000 | -.01000 | .03181 | -.21800 | -.21200 | .00680 | 21.36640 | .02221 | .01199 |
| .597 | 2.020 | -.01000 | .00000 | .00000 | .02948 | -.21800 | -.21200 | .00450 | 12.27750 | .02222 | .01196 |
| .597 | 4.090 | -.02000 | .00000 | -.01000 | .02252 | -.21800 | -.21000 | .00450 | 14.81610 | .02216 | .01183 |
| .597 | 6.240 | -.04000 | .00000 | -.02000 | .01242 | -.21800 | -.20600 | .00610 | 15.42840 | .02225 | .01162 |
| .598 | 8.390 | -.04000 | -.01000 | -.01000 | -.00110 | -.20400 | -.20400 | .00420 | 15.61860 | .02236 | .01154 |
| .598 | 10.470 | -.03000 | .05000 | -.04000 | -.01584 | -.22000 | -.20700 | .00250 | 15.73610 | .02243 | .01166 |
| .597 | 11.580 | -.05000 | .04000 | -.05000 | -.02413 | -.22400 | -.21000 | .00450 | 15.79680 | .02281 | .01187 |
| .597 | 12.650 | -.03000 | .01000 | -.02000 | -.02437 | -.23000 | -.21400 | .00770 | 15.86430 | .02338 | .01207 |
| .598 | 13.640 | -.03000 | .01000 | -.02000 | -.02172 | -.23800 | -.22000 | .00880 | 15.93310 | .02426 | .01241 |
| .598 | 14.690 | -.06000 | .01000 | -.04000 | -.01906 | -.24400 | -.22600 | .00760 | 15.98830 | .02484 | .01274 |
| .598 | 15.770 | -.03000 | .00000 | -.01000 | -.01971 | -.25000 | -.23300 | .00740 | 16.04340 | .02544 | .01315 |
| .598 | 16.770 | -.06000 | -.04000 | -.01000 | -.02110 | -.25900 | -.24100 | .01140 | 16.02130 | .02635 | .01362 |
| .598 | 18.910 | -.06000 | .00000 | -.03000 | -.02603 | -.27800 | -.26200 | .01590 | 16.15710 | .02826 | .01476 |
| | GRADIENT | -.00049 | -.00097 | .00048 | -.00110 | .00014 | .00056 | -.00006 | -.81750 | -.00002 | -.00003 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 197

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK003) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 AILRON = .000 BETA = -2.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 10/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|--------|----------|--------|---------|
| .598 | -1.940 | -.03000 | .03000 | -.03000 | .02983 | -.21700 | -.21000 | .00710 | 17.82110 | .02208 | .01185 |
| .598 | .260 | .00000 | .02000 | -.01000 | .03059 | -.21700 | -.20900 | .00540 | 26.41540 | .02210 | .01181 |
| .598 | 2.370 | -.01000 | .01000 | -.01000 | .02853 | -.21600 | -.20900 | .00560 | 13.41070 | .02204 | .01182 |
| .598 | 4.450 | -.01000 | .01000 | -.01000 | .02147 | -.21700 | -.20700 | .00710 | 14.98430 | .02215 | .01167 |
| .598 | 6.590 | -.03000 | .01000 | -.02000 | .01073 | -.21500 | -.20200 | .00390 | 15.45300 | .02190 | .01140 |
| .597 | 8.740 | .00000 | .02000 | -.01000 | -.00298 | -.21600 | -.19900 | .00590 | 15.65980 | .02203 | .01126 |
| .598 | 10.790 | -.02000 | .04000 | -.03000 | -.01754 | -.21900 | -.20100 | .00590 | 15.79260 | .02229 | .01137 |
| .597 | 11.930 | .00000 | .04000 | -.02000 | -.02616 | -.22500 | -.20600 | .00650 | 15.81550 | .02291 | .01161 |
| .598 | 12.980 | -.03000 | .02000 | -.03000 | -.02652 | -.23200 | -.20700 | .01110 | 15.90560 | .02357 | .01168 |
| .597 | 14.000 | -.06000 | .00000 | -.02000 | -.02271 | -.24100 | -.21500 | .01360 | 15.93990 | .02451 | .01212 |
| .598 | 15.060 | -.07000 | -.01000 | -.02000 | -.02181 | -.24700 | -.22000 | .00910 | 15.99950 | .02513 | .01240 |
| .598 | 16.080 | -.02000 | -.02000 | .00000 | -.02201 | -.25400 | -.22700 | .01220 | 16.05960 | .02583 | .01278 |
| .598 | 17.130 | -.03000 | -.03000 | .00000 | -.02305 | -.26000 | -.24000 | .00880 | 16.10300 | .02700 | .01356 |
| .598 | 19.270 | -.01000 | -.01000 | .00000 | -.02569 | -.28600 | -.26500 | .01130 | 16.19110 | .02910 | .01492 |
| .598 | GRADIENT | .00240 | -.00330 | .00285 | -.00127 | .00005 | .00042 | .00001 | -.99679 | .00001 | -.00002 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK004) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

4.500 ELEVON = .000
 .000 BETA = .000
 1.000 SPOBRK = 25.000
 .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 17/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|--------|----------|---------|---------|
| .598 | -2.120 | .0000 | .0000 | .0000 | .03239 | -.20300 | -.20000 | .00530 | 17.70120 | .02065 | .01131 |
| .599 | .150 | .00000 | .00000 | .00000 | .03400 | -.20300 | -.20100 | .00600 | 20.31980 | .02070 | .01135 |
| .599 | 2.320 | .01000 | .00000 | .01000 | .03053 | -.20200 | -.19700 | .00920 | 12.73650 | .02056 | .01112 |
| .598 | 4.350 | .01000 | -.02000 | .02000 | .02414 | -.20100 | -.19300 | .00620 | 14.84350 | .02047 | .01087 |
| .598 | 6.590 | .00000 | -.03000 | .01000 | .01335 | -.20300 | -.19300 | .00710 | 15.42580 | .02070 | .01090 |
| .598 | 8.730 | -.01000 | -.01000 | -.01000 | -.00160 | -.20300 | -.19100 | .00510 | 15.68420 | .02069 | .01080 |
| .598 | 10.780 | .02000 | -.03000 | .03000 | -.01477 | -.20900 | -.19700 | .00430 | 15.78150 | .02124 | .01114 |
| .598 | 11.970 | .01000 | .00000 | .00000 | -.02342 | -.21100 | -.20000 | .00730 | 15.80100 | .02145 | .01131 |
| .597 | 13.030 | .00000 | -.02000 | .01000 | -.02629 | -.21800 | -.20700 | .00770 | 15.85900 | .02215 | .01168 |
| .598 | 14.090 | .01000 | -.04000 | .03000 | -.02518 | -.22600 | -.21500 | .00690 | 15.90730 | .02301 | .01213 |
| .598 | 15.160 | .01000 | .00000 | .00000 | -.02376 | -.23000 | -.21900 | .00820 | 15.96470 | .02345 | .01233 |
| .597 | 16.220 | .00000 | -.01000 | .00000 | -.02262 | -.24000 | -.22500 | .00880 | 16.01220 | .02445 | .01271 |
| .598 | 17.220 | .00000 | -.02000 | .00000 | -.02235 | -.25100 | -.23800 | .01140 | 16.05510 | .02559 | .01343 |
| .598 | 19.420 | .00000 | -.03000 | .02000 | -.02310 | -.27700 | -.26300 | .01050 | 16.15450 | .02819 | .01485 |
| | GRADIENT | .00185 | -.00273 | .00322 | -.00129 | .00032 | .00115 | .00028 | -.74960 | -.00003 | -.00007 |

RUN NO. 16/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|--------|---------|---------|---------|---------|----------|---------|---------|
| .797 | -2.360 | .00000 | -.01000 | .00000 | .03357 | -.22100 | -.21800 | .00520 | 17.82830 | .02245 | .01230 |
| .798 | -.050 | -.01000 | -.01000 | .00000 | .03488 | -.21800 | -.21300 | .00700 | 20.97060 | .02220 | .01201 |
| .797 | 2.160 | -.01000 | -.01000 | .00000 | .03224 | -.21700 | -.20900 | .00690 | 11.55440 | .02210 | .01179 |
| .796 | 4.260 | -.01000 | .00000 | .00000 | .02636 | -.21500 | -.20600 | .00400 | 14.77020 | .02192 | .01160 |
| .797 | 6.510 | .00000 | -.02000 | .01000 | .02009 | -.21400 | -.20100 | .00620 | 15.52840 | .02178 | .01134 |
| .796 | 8.690 | .00000 | .00000 | .00000 | .01614 | -.22000 | -.20500 | .00440 | 15.75150 | .02245 | .01159 |
| .797 | 10.840 | .01000 | -.01000 | .01000 | .01497 | -.23000 | -.21200 | .01200 | 15.76990 | .02340 | .01195 |
| .797 | 11.950 | .02000 | -.01000 | .02000 | .01459 | -.23500 | -.21500 | .01130 | 15.81890 | .02394 | .01214 |
| .796 | 12.960 | .00000 | -.02000 | .01000 | .01425 | -.24200 | -.22100 | .00850 | 15.88910 | .02466 | .01247 |
| .797 | 14.090 | .00000 | -.03000 | .01000 | .01513 | -.25400 | -.23000 | .01150 | 16.00320 | .02584 | .01300 |
| .796 | 15.120 | .01000 | -.01000 | .01000 | .01685 | -.26200 | -.24200 | .01030 | 16.07000 | .02671 | .01366 |
| .794 | 16.250 | .00000 | -.02000 | .01000 | .01498 | -.27000 | -.25300 | .01410 | 16.11840 | .02748 | .01426 |
| .797 | 17.330 | .00000 | -.03000 | .14000 | .01445 | -.28100 | -.26400 | .01730 | 16.11120 | .02862 | .01491 |
| .796 | 19.510 | .00000 | -.03000 | .16000 | .01082 | -.30500 | -.29300 | .01730 | 16.10960 | .03102 | .01652 |
| | GRADIENT | -.00138 | .00134 | .00000 | -.00108 | .00086 | .00182 | -.00016 | -.84264 | -.00008 | -.00011 |

LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)

(SUK004) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.8800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 15/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|---------|---------|--------|--------|---------|---------|--------|----------|---------|---------|
| .896 | -2.390 | -.01000 | .00000 | .00000 | .04302 | -.24500 | -.23900 | .00660 | 17.94750 | .02492 | .01348 |
| .896 | -.060 | -.01000 | -.01000 | .00000 | .04463 | -.24300 | -.23500 | .00650 | 21.56910 | .02470 | .01325 |
| .896 | 2.210 | -.03000 | -.01000 | .02000 | .04423 | -.24100 | -.23100 | .00530 | 14.64270 | .02449 | .01305 |
| .897 | 4.400 | .00000 | .00000 | .00000 | .04317 | -.23900 | -.22700 | .00720 | 15.51180 | .02438 | .01282 |
| .897 | 6.560 | .00000 | .00000 | .00000 | .04276 | -.23700 | -.22100 | .00620 | 15.53910 | .02414 | .01248 |
| .896 | 8.790 | .05000 | .01000 | .01000 | .04018 | -.24100 | -.22500 | .01450 | 15.73530 | .02456 | .01270 |
| .897 | 10.920 | .00000 | .01000 | .00000 | .03968 | -.25100 | -.23900 | .01370 | 15.97090 | .02560 | .01350 |
| .896 | 12.410 | .01000 | .00000 | .00000 | .03821 | -.25800 | -.24300 | .01090 | 16.04160 | .02622 | .01372 |
| .898 | 13.030 | .00000 | .00000 | .00000 | .03849 | -.26900 | -.25700 | .01440 | 16.09400 | .02736 | .01410 |
| .896 | 14.160 | .00000 | -.02000 | .01000 | .03723 | -.27800 | -.26600 | .01200 | 16.14650 | .02829 | .01450 |
| .897 | 15.250 | -.03000 | -.02000 | .00000 | .03679 | -.28700 | -.26600 | .01350 | 16.18090 | .02919 | .01502 |
| .896 | 16.350 | .00000 | -.02000 | .00000 | .03470 | -.29500 | -.27600 | .01300 | 16.19530 | .03005 | .01559 |
| .896 | 17.410 | .00000 | -.02000 | .01000 | .03286 | -.30000 | -.28900 | .00980 | 16.19940 | .03054 | .01627 |
| .896 | 19.640 | .00000 | -.03000 | .01000 | .02892 | -.32700 | -.32200 | .01210 | 16.19570 | .03331 | .01818 |
| GRADIENT | | .00314 | -.00003 | .00091 | .00001 | .00088 | .00177 | .00002 | -.62552 | -.00008 | -.00010 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK005) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 BETA = -2.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|--------|--------|--------|---------|---------|---------|---------|----------|---------|---------|
| .599 | -1.920 | .0000 | -.0100 | .0000 | -.03166 | -.20600 | -.20300 | .00470 | 17.61620 | .02099 | .01148 |
| .599 | .350 | .0000 | .0000 | .0000 | .03261 | -.20600 | -.20400 | .00680 | 23.33610 | .02098 | .01149 |
| .599 | 2.510 | .0100 | .0000 | .0000 | .02922 | -.20400 | -.20100 | .00600 | 13.37480 | .02077 | .01134 |
| .598 | 4.650 | .0000 | -.0100 | .0000 | .02162 | -.20500 | -.20000 | .00450 | 15.08850 | .02088 | .01130 |
| .598 | 6.810 | -.0100 | -.0200 | .0000 | .01002 | -.20500 | -.19700 | .00600 | 15.50390 | .02090 | .01113 |
| .598 | 8.920 | .0000 | -.0200 | .0000 | -.00337 | -.20600 | -.19600 | .00600 | 15.71220 | .02093 | .01104 |
| .598 | 11.010 | .0000 | -.0200 | .0100 | -.01789 | -.20900 | -.19900 | .00970 | 15.77510 | .02130 | .01125 |
| .598 | 12.180 | .0200 | -.0200 | .0200 | -.02595 | -.21500 | -.20200 | .01050 | 15.84480 | .02185 | .01140 |
| .598 | 13.210 | .0300 | -.0200 | .0300 | -.02608 | -.22200 | -.20700 | .00640 | 15.89860 | .02258 | .01168 |
| .598 | 14.270 | .0000 | -.0300 | .0100 | -.02790 | -.23100 | -.21000 | .00710 | 15.92700 | .02350 | .01186 |
| .598 | 15.330 | .0000 | -.0500 | .0300 | -.02669 | -.23800 | -.21700 | .01120 | 15.99280 | .02419 | .01223 |
| .598 | 16.410 | -.0100 | -.0200 | .0000 | -.02314 | -.24500 | -.22400 | .00860 | 16.04410 | .02489 | .01263 |
| .597 | 17.430 | .0000 | -.0300 | .0100 | -.02522 | -.25400 | -.23600 | .01290 | 16.07970 | .02588 | .01334 |
| .599 | 19.620 | .0000 | -.0300 | .0100 | -.02522 | -.27900 | -.26300 | .01180 | 16.18480 | .02842 | .01484 |
| | GRADIENT | .00046 | .00003 | .00000 | -.00152 | .00023 | .00054 | -.00006 | -.78966 | -.00002 | -.00003 |

LA70 BASELINE OF LAGE CGAPS OPEN, GRIT ON) (ISUK006) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 BETA = 2.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 19/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CFB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|--------|---------|---------|---------|--------|----------|--------|---------|
| .598 | -2.240 | .00000 | .00000 | .00000 | .03132 | -.20600 | -.20500 | .00410 | 17.66030 | .02100 | .01158 |
| .598 | -.010 | .00000 | .00000 | .00000 | .03331 | -.20700 | -.20500 | .00410 | 20.29670 | .02105 | .01159 |
| .598 | 2.110 | .00000 | -.01000 | .01000 | .03113 | -.20700 | -.20600 | .00750 | 11.97990 | .02112 | .01164 |
| .598 | 4.180 | .00000 | .00000 | .00000 | .02467 | -.20600 | -.20400 | .00430 | 14.87860 | .02099 | .01149 |
| .598 | 6.460 | .00000 | .00000 | .00000 | .01389 | -.20600 | -.19800 | .00580 | 15.44110 | .02096 | .01116 |
| .598 | 8.600 | -.01000 | .00000 | .00000 | -.00105 | -.20700 | -.19800 | .00210 | 15.67550 | .02110 | .01116 |
| .598 | 10.670 | .02000 | -.01000 | .02000 | -.01524 | -.21000 | -.20100 | .00560 | 15.75430 | .02137 | .01135 |
| .598 | 11.800 | .01000 | .00000 | .01000 | -.02265 | -.21500 | -.20600 | .00450 | 15.80650 | .02188 | .01162 |
| .598 | 12.820 | .00000 | .00000 | .00000 | -.02462 | -.22000 | -.21000 | .00750 | 15.88460 | .02240 | .01184 |
| .599 | 13.900 | .00000 | -.02000 | .01000 | -.02315 | -.22800 | -.21600 | .00710 | 15.94690 | .02317 | .01221 |
| .598 | 14.920 | .00000 | -.02000 | .01000 | -.02342 | -.23300 | -.22100 | .00620 | 15.96960 | .02372 | .01245 |
| .598 | 16.050 | .00000 | -.03000 | .02000 | -.2202 | -.23900 | -.22500 | .00770 | 16.04410 | .02436 | .01272 |
| .598 | 17.100 | .00000 | -.03000 | .02000 | .082 | -.25000 | -.23700 | .00710 | 16.03700 | .02546 | .01337 |
| .598 | 19.230 | .00000 | -.02000 | .01000 | -.02080 | -.27100 | -.26000 | .00820 | 16.18280 | .02753 | .01465 |
| .598 | GRADIENT | .00000 | -.00048 | .00048 | -.00102 | -.00000 | .00009 | .00019 | -.77665 | .00000 | -.00001 |

(SUK007) (26 FEB 76)

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 3.500 ELEVON = .000
 AILRON = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 11/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|---------|----------|--------|--------|
| .598 | -6.090 | -.01000 | -.06000 | -.02000 | -.02810 | -.22000 | -.21300 | .00570 | 21.06630 | .02244 | .01202 |
| .598 | -4.050 | -.02000 | -.06000 | .01000 | .03050 | -.21800 | -.20900 | .00850 | 20.44620 | .02217 | .01181 |
| .598 | -2.030 | -.01000 | -.05000 | .01000 | .03284 | -.21400 | -.20800 | .00620 | 20.42640 | .02176 | .01175 |
| .598 | -1.010 | -.01000 | -.05000 | .01000 | .03305 | -.21400 | -.20700 | .00480 | 21.20310 | .02176 | .01166 |
| .598 | .000 | -.02000 | -.04000 | .00000 | .03323 | -.21300 | -.20600 | .00620 | 20.31190 | .02168 | .01165 |
| .598 | 1.010 | .00000 | -.03000 | .01000 | .03323 | -.21500 | -.20900 | .00390 | 21.46740 | .02184 | .01179 |
| .598 | 2.030 | .00000 | -.02000 | .00000 | .03350 | -.21700 | -.21200 | .00540 | 20.76670 | .02209 | .01197 |
| .598 | 4.040 | .00000 | -.02000 | .00000 | .03101 | -.22600 | -.22100 | .00620 | 21.08520 | .02299 | .01246 |
| .598 | 6.080 | -.01000 | -.01000 | .00000 | .02923 | -.23400 | -.22900 | .00790 | 19.89720 | .02385 | .01292 |
| .598 | 8.120 | -.01000 | -.01000 | .00000 | .02571 | -.24200 | -.23700 | .00880 | 19.22250 | .02450 | .01336 |
| | GRADIENT | .00259 | .00565 | -.00141 | .00008 | -.00092 | -.00136 | -.00028 | .08238 | .00009 | .00007 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK008) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 3.500 ELEVON = .000
 AILRON = .000 ALPHA = 13.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 12/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|--------|
| .597 | -6.090 | -.27000 | -.01000 | -.12000 | -.02493 | -.24400 | -.22600 | .01480 | 16.05710 | .02482 | .01277 |
| .597 | -4.050 | -.13000 | .00000 | -.06000 | -.02344 | -.24100 | -.21900 | .01510 | 16.01030 | .02449 | .01233 |
| .598 | -2.030 | -.10000 | .00000 | -.05000 | -.02331 | -.23600 | -.21300 | .01110 | 15.94950 | .02401 | .01205 |
| .598 | -1.010 | -.08000 | .00000 | -.04000 | -.02162 | -.23500 | -.21600 | .00910 | 15.92420 | .02394 | .01218 |
| .599 | .000 | -.05000 | -.03000 | -.01000 | -.02060 | -.23400 | -.21800 | .00850 | 15.91930 | .02385 | .01229 |
| .598 | 1.010 | -.07000 | .00000 | -.03000 | -.02123 | -.23600 | -.22200 | .00850 | 15.89960 | .02407 | .01252 |
| .598 | 2.030 | -.06000 | .00000 | -.02000 | -.02091 | -.23600 | -.22100 | .01130 | 15.93350 | .02401 | .01245 |
| .597 | 4.050 | -.16000 | .00000 | -.08000 | -.02089 | -.24000 | -.22800 | .00960 | 16.01280 | .02442 | .01284 |
| .599 | 6.080 | -.13000 | .00000 | -.06000 | -.02237 | -.24600 | -.23200 | .01020 | 16.06060 | .02503 | .01312 |
| .599 | 8.120 | -.11000 | .00000 | -.05000 | -.02592 | -.25300 | -.24200 | .01070 | 16.11330 | .02575 | .01366 |
| | GRADIENT | -.00070 | .00000 | -.00023 | .00036 | .00007 | -.00136 | -.00052 | -.00081 | -.00000 | .00007 |

PARAMETRIC DATA

XCP = 3.500 ELEVON = .000
 CAB = 1.000 ALPHA = 13.000
 BDFLAP = .000 SPDBRK = 25.000

PARAMETRIC DATA

XCP = 3.500 ELEVON = .000
 CAB = 1.000 ALPHA = 13.000
 BDFLAP = .000 SPDBRK = 25.000

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK009) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 20/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|--------|--------|--------|--------|---------|---------|---------|----------|--------|--------|
| .598 | -6.110 | .0000 | -.0200 | .0100 | .02767 | -.21600 | -.21200 | .00880 | 18.95960 | .02195 | .01195 |
| .598 | -4.060 | .0000 | -.0100 | .0000 | .03027 | -.21100 | -.20700 | .00860 | 19.46970 | .02153 | .01170 |
| .598 | -2.040 | .0000 | -.0100 | .0100 | .03262 | -.20700 | -.20400 | .00490 | 19.37800 | .02108 | .01154 |
| .598 | -1.010 | .0000 | -.0200 | .0000 | .03350 | -.20400 | -.20200 | .00640 | 20.41110 | .02077 | .01138 |
| .598 | .010 | .0100 | -.0300 | .0200 | .03367 | -.20400 | -.20100 | .00880 | 20.37500 | .02077 | .01136 |
| .598 | 1.030 | .0100 | -.0100 | .0100 | .03336 | -.20600 | -.20300 | .00510 | 20.35050 | .02094 | .01147 |
| .598 | 2.040 | .0400 | -.0100 | .0300 | .03291 | -.20800 | -.20500 | .00450 | 19.59940 | .02118 | .01165 |
| .598 | 4.070 | .0100 | -.0100 | .0100 | .03098 | -.21700 | -.21500 | .00470 | 19.46200 | .02212 | .01213 |
| .598 | 6.110 | .0100 | .0000 | .0100 | .02939 | -.22300 | -.22100 | .00880 | 19.11810 | .02275 | .01247 |
| .598 | 8.160 | .0000 | -.0100 | .0000 | .02561 | -.23100 | -.22900 | .00730 | 19.11000 | .02350 | .01293 |
| | GRADIENT | .00304 | .00023 | .00211 | .00008 | -.00065 | -.00086 | -.00041 | .00852 | .00006 | .00005 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK010) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = 13.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 21/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|--------|--------|--------|---------|---------|---------|---------|----------|---------|--------|
| .598 | -6.110 | .0000 | -.0200 | .0100 | -.03002 | -.23100 | -.21700 | .01030 | 16.05760 | .02347 | .01224 |
| .598 | -4.070 | .0000 | -.0200 | .0100 | -.02789 | -.23200 | -.21000 | .00730 | 15.97380 | .02360 | .01187 |
| .598 | -2.040 | .0000 | -.0100 | .0000 | -.02829 | -.22700 | -.20800 | .00770 | 15.91600 | .02311 | .01175 |
| .598 | -1.010 | .0000 | .0000 | .0000 | -.02665 | -.22200 | -.21100 | .00980 | 15.91090 | .02262 | .01193 |
| .598 | .000 | -.0200 | .0000 | .0000 | -.02613 | -.22200 | -.21200 | .00660 | 15.89090 | .02260 | .01198 |
| .598 | 1.010 | .0000 | .0000 | .0000 | -.02449 | -.22400 | -.21300 | .00950 | 15.91550 | .02281 | .01201 |
| .597 | 2.040 | .0000 | .0000 | .0000 | -.02282 | -.22500 | -.21400 | .00770 | 15.95480 | .02294 | .01208 |
| .598 | 4.070 | .0100 | -.0100 | .0100 | -.02323 | -.23000 | -.22100 | .00710 | 15.99550 | .02345 | .01246 |
| .597 | 6.110 | .0200 | -.0200 | .0200 | -.02427 | -.23400 | -.22600 | .01060 | 16.05300 | .02380 | .01273 |
| .598 | 8.150 | .0000 | .0000 | .0000 | -.02800 | -.24100 | -.23400 | .01030 | 16.08400 | .02457 | .01321 |
| | GRADIENT | .00070 | .00140 | .00000 | .00074 | .00023 | -.00136 | -.00006 | .00396 | -.00002 | .00007 |

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK011) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 8.000 ELEVON = .000
 AILRON = .000 ALPHA = 13.000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 26/ 0 RN/L = 8.06 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|--------|----------|---------|--------|
| .582 | -6.210 | -.03000 | .04000 | -.04000 | -.04261 | -.24600 | -.22800 | .01450 | 16.12920 | .02509 | .01286 |
| .601 | -4.140 | -.01000 | .03000 | -.02000 | -.03762 | -.24900 | -.22700 | .00670 | 16.03120 | .02534 | .01281 |
| .599 | -2.070 | .00000 | .06000 | -.03000 | -.03467 | -.24500 | -.22500 | .00480 | 15.99360 | .02495 | .01268 |
| .599 | -1.050 | -.01000 | .05000 | -.03000 | -.03325 | -.24300 | -.22400 | .00650 | 15.97910 | .02470 | .01263 |
| .600 | -.520 | -.03000 | .03000 | -.03000 | -.03174 | -.23900 | -.22300 | .00600 | 15.96800 | .02433 | .01256 |
| .600 | .000 | -.03000 | .05000 | -.04000 | -.03232 | -.24000 | -.22600 | .00540 | 15.96690 | .02442 | .01275 |
| .599 | .510 | -.06000 | .04000 | -.05000 | -.03081 | -.24300 | -.22800 | .00650 | 15.98810 | .02470 | .01287 |
| .600 | 1.040 | -.06000 | .03000 | -.05000 | -.02990 | -.24000 | -.22600 | .00780 | 15.98940 | .02441 | .01274 |
| .599 | 2.060 | -.10000 | .02000 | -.06000 | -.03144 | -.24300 | -.22700 | .00480 | 15.98830 | .02474 | .01280 |
| .600 | 4.120 | .01000 | .02000 | .00000 | -.03101 | -.24700 | -.23400 | .00660 | 16.04210 | .02514 | .01319 |
| .599 | 6.200 | -.02000 | .02000 | -.02000 | -.03436 | -.25200 | -.24200 | .00860 | 16.09720 | .02568 | .01367 |
| | GRADIENT | -.00423 | -.00307 | -.00024 | .00084 | .00030 | -.00083 | .00003 | .00120 | -.00003 | .00005 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK012) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 14/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|-----------|--------|---------|---------|---------|---------|----------|---------|--------|
| .598 | -5.000 | -4.99000 | 5.01000 | .00000 | .03442 | -.22000 | -.21000 | .01000 | 21.04460 | .02235 | .01184 |
| .598 | -3.980 | -4.02000 | 3.94000 | .00000 | .03371 | -.21800 | -.20900 | .00570 | 21.83480 | .02218 | .01178 |
| .598 | -2.020 | -2.04000 | 2.01000 | .00000 | .03268 | -.21600 | -.20900 | .00420 | 21.96620 | .02196 | .01180 |
| .598 | -1.010 | -1.04000 | .97000 | .00000 | .03210 | -.21500 | -.20800 | .00510 | 23.39530 | .02185 | .01173 |
| .598 | -.020 | -.02000 | .01000 | .00000 | .03250 | -.21500 | -.20900 | .00420 | 21.08260 | .02185 | .01179 |
| .598 | 1.010 | 1.01000 | -1.00000 | .00000 | .03279 | -.21400 | -.20800 | .00510 | 21.86320 | .02177 | .01174 |
| .598 | 1.980 | 1.94000 | -2.03000 | .00000 | .03252 | -.21600 | -.21000 | .00570 | 21.06390 | .02195 | .01187 |
| .598 | 4.040 | 4.03000 | -4.06000 | .00000 | .03332 | -.21800 | -.21200 | .00510 | 21.65110 | .02216 | .01196 |
| .598 | 5.010 | 5.01000 | -5.02000 | .00000 | .03371 | -.21800 | -.21200 | .00480 | 22.09850 | .02223 | .01197 |
| .598 | 5.990 | 5.95000 | -6.04000 | .00000 | .03524 | -.22000 | -.21400 | .00570 | 22.39430 | .02240 | .01205 |
| .598 | 8.020 | 8.06000 | -7.99000 | .01000 | .03685 | -.22000 | -.21300 | .00540 | 21.40090 | .02238 | .01200 |
| .598 | 9.990 | 9.96000 | -10.01000 | .01000 | .03980 | -.22400 | -.21400 | .00570 | 21.17980 | .02238 | .01206 |
| | GRADIENT | .99967 | -1.00146 | .00000 | -.00013 | .00029 | -.00017 | -.00033 | -.00938 | -.00003 | .00001 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) (SUK017) (28 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 BETA = .000 ALPHA = 13.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 13/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | A1LRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|---------|----------|-----------|--------|---------|---------|---------|--------|----------|--------|--------|
| .598 | -4.980 | -4.99000 | 4.96000 | .00000 | -.01915 | -.22500 | -.21000 | .01020 | 15.86560 | .02295 | .01186 |
| .598 | -3.990 | -4.02000 | 3.96000 | .00000 | -.01999 | -.22900 | -.21400 | .00830 | 15.90430 | .02329 | .01205 |
| .598 | -2.000 | -2.00000 | 2.01000 | .00000 | -.02057 | -.23000 | -.21600 | .01140 | 15.91450 | .02339 | .01219 |
| .598 | -.950 | -.95000 | .95000 | .00000 | -.02133 | -.23300 | -.21700 | .00740 | 15.93290 | .02371 | .01222 |
| .598 | -.030 | -.04000 | .02000 | .00000 | -.02051 | -.23300 | -.21600 | .00620 | 15.92230 | .02370 | .01219 |
| .599 | 1.010 | .99000 | -1.02000 | .00000 | -.02049 | -.23300 | -.21700 | .00710 | 15.90580 | .02369 | .01226 |
| .599 | 1.990 | 1.98000 | -2.01000 | .00000 | -.02001 | -.23400 | -.21900 | .00710 | 15.92010 | .02377 | .01237 |
| .598 | 4.030 | 4.03000 | -4.03000 | .00000 | -.01981 | -.23300 | -.22000 | .01170 | 15.91890 | .02370 | .01241 |
| .598 | 5.000 | 4.99000 | -5.02000 | .00000 | -.01901 | -.23200 | -.22000 | .01370 | 15.90690 | .02360 | .01242 |
| .597 | 5.980 | 5.96000 | -6.00000 | .00000 | -.01868 | -.23200 | -.22100 | .01260 | 15.92770 | .02359 | .01248 |
| .598 | 8.020 | 8.05000 | -8.00000 | .01000 | -.01627 | -.22900 | -.22000 | .00880 | 15.94260 | .02330 | .01239 |
| .599 | 9.990 | 9.98000 | -10.00000 | .01000 | -.01265 | -.22900 | -.21900 | .00990 | 15.98790 | .02331 | .01237 |
| GRADIENT | 1.00088 | 1.00088 | -.99945 | .00000 | .00004 | -.00064 | -.00087 | .00024 | .00162 | .00006 | .00005 |

LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)

(SUK014) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 237 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CFB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|--------|---------|---------|---------|---------|----------|---------|---------|
| .598 | -4.940 | -4.81000 | 5.07000 | .00000 | .03429 | -.21600 | -.20600 | .00750 | 22.91570 | -.02202 | -.01162 |
| .598 | -3.900 | -3.79000 | 4.01000 | .00000 | .03409 | -.21500 | -.20500 | .00930 | 22.65160 | .02188 | .01157 |
| .599 | -1.940 | -1.79000 | 2.08000 | .00000 | .03296 | -.21300 | -.20500 | .00470 | 21.66590 | .02172 | .01159 |
| .598 | -.930 | -.64000 | 1.02000 | .00000 | .03288 | -.21100 | -.20400 | .00520 | 22.10370 | .02146 | .01153 |
| .598 | .050 | .19000 | .08000 | .00000 | .03226 | -.21100 | -.20500 | .00560 | 22.05040 | .02150 | .01155 |
| .598 | 1.070 | 1.21000 | -.94000 | .00000 | .03271 | -.21000 | -.20400 | .00800 | 21.61140 | .02135 | .01153 |
| .598 | 2.070 | 2.17000 | -1.96000 | .00000 | .03307 | -.21000 | -.20400 | .00540 | 22.13010 | .02143 | .01167 |
| .598 | 4.100 | 4.22000 | -3.98000 | .00000 | .03350 | -.21300 | -.20700 | .00670 | 21.89150 | .02167 | .01163 |
| .598 | 5.070 | 5.20000 | -4.95000 | .00000 | .03444 | -.21200 | -.20600 | .00620 | 20.86710 | .02161 | .01154 |
| .598 | 6.040 | 6.15000 | -5.94000 | .00000 | .03486 | -.21200 | -.20400 | .00620 | 22.61030 | .02160 | .01168 |
| .599 | 8.090 | 8.24000 | -7.54000 | .01000 | .03757 | -.21600 | -.20700 | .00510 | 21.31390 | .02136 | .01173 |
| .598 | 10.030 | 10.13000 | -9.92000 | .01000 | .04040 | -.21800 | -.20800 | .00540 | 21.22730 | .02224 | .01173 |
| | GRADIENT | .99924 | -1.00048 | .00000 | -.00012 | .00052 | -.00002 | -.00017 | -.10209 | -.00005 | .00000 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 207

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK015) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 13.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 22/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|--------|---------|---------|---------|--------|----------|--------|--------|
| .598 | -4.930 | 4.80000 | 5.07000 | .00000 | -.02264 | -.22300 | -.20900 | .01060 | 15.89800 | .02274 | .01179 |
| .599 | -3.910 | -3.80000 | 4.03000 | .00000 | -.02346 | -.22600 | -.21000 | .00800 | 15.87870 | .02298 | .01187 |
| .598 | -1.940 | -1.80000 | 2.09000 | .00000 | -.02530 | -.22900 | -.21300 | .00910 | 15.89170 | .02328 | .01201 |
| .598 | -.930 | -.85000 | 1.02000 | .00000 | -.02535 | -.23100 | -.21500 | .01010 | 15.92870 | .02351 | .01215 |
| .598 | .060 | .19000 | .06000 | .00000 | -.02511 | -.23000 | -.21500 | .00540 | 15.90940 | .02342 | .01212 |
| .598 | 1.060 | 1.18000 | -.95000 | .00000 | -.02515 | -.23200 | -.21600 | .00820 | 15.91180 | .02358 | .01220 |
| .598 | 2.070 | 2.16000 | -1.97000 | .00000 | -.02570 | -.22900 | -.21700 | .01080 | 15.87300 | .02331 | .01223 |
| .599 | 4.100 | 4.22000 | -3.97000 | .00000 | -.02439 | -.23000 | -.21800 | .01160 | 15.91210 | .02343 | .01229 |
| .599 | 5.080 | 5.20000 | -4.96000 | .00000 | -.02319 | -.22900 | -.21600 | .00820 | 15.88220 | .02326 | .01219 |
| .599 | 6.050 | 6.15000 | -5.96000 | .01000 | -.02181 | -.22700 | -.21700 | .00990 | 15.90420 | .02311 | .01224 |
| .598 | 8.090 | 8.26000 | -7.92000 | .01000 | -.01980 | -.22500 | -.21500 | .01040 | 15.94230 | .02292 | .01212 |
| .598 | 10.050 | 10.16000 | -9.93000 | .01000 | -.01574 | -.22500 | -.21400 | .01140 | 15.98200 | .02302 | .01208 |
| | GRADIENT | .99851 | -1.00219 | .00000 | -.00022 | -.00071 | -.00104 | .00014 | .00143 | .00007 | .00006 |

(SUK016) (26 FEB 76)

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000
 BETA = .000 ALPHA = 13.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 26/ 0 RN/L = 7.10 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | A1LRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|----------|---------|---------|---------|---------|---------|----------|---------|--------|
| .499 | -5.040 | -5.10000 | 4.98000 | -.02000 | -.04156 | -.23800 | -.22200 | .01550 | 15.91520 | .02418 | .01253 |
| .498 | -4.030 | -4.08000 | 3.98000 | -.01000 | -.04251 | -.23600 | -.22400 | .00890 | 15.92140 | .02407 | .01267 |
| .498 | -3.110 | -4.14000 | 2.08000 | -.01000 | -.04456 | -.23900 | -.22600 | .01750 | 15.94550 | .02430 | .01272 |
| .497 | -1.040 | -1.12000 | .96000 | .00000 | -.04448 | -.23800 | -.22400 | .01270 | 15.96020 | .02421 | .01265 |
| .498 | -.050 | -.08000 | -.08000 | .03000 | -.04442 | -.23700 | -.22400 | .01170 | 15.91120 | .02408 | .01263 |
| .497 | .990 | .98000 | -1.00000 | .00000 | -.04433 | -.23600 | -.22500 | .01340 | 15.92850 | .02406 | .01268 |
| .498 | 1.960 | 1.88000 | -2.04000 | .00000 | -.04467 | -.23700 | -.22700 | .01170 | 15.91980 | .02413 | .01282 |
| .499 | 3.990 | 3.95000 | -4.03000 | .00000 | -.04356 | -.23600 | -.22700 | .01530 | 15.92020 | .02407 | .01283 |
| .498 | 4.950 | 4.30000 | -5.01000 | .00000 | -.04321 | -.23400 | -.22600 | .01050 | 15.93470 | .02385 | .01275 |
| .498 | 5.940 | 5.87000 | -6.00000 | .01000 | -.04036 | -.23500 | -.22800 | .01530 | 15.96400 | .02390 | .01284 |
| .498 | 7.980 | 7.95000 | -8.00000 | .02000 | -.02333 | -.23200 | -.22300 | .01350 | 16.00820 | .02365 | .01260 |
| .497 | 9.940 | 9.90000 | -9.98000 | .02000 | -.03492 | -.23300 | -.22500 | .01170 | 15.95560 | .02374 | .01272 |
| GRADIENT | | 1.05010 | -.95046 | .00114 | .00000 | .00031 | -.00025 | -.00002 | -.00116 | -.00003 | .00001 |

RUN NO. 29/ 0 RN/L = 8.07 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | A1LRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|----------|---------|---------|---------|---------|---------|----------|--------|--------|
| .582 | -5.010 | -5.00000 | 5.02000 | -.01000 | -.03085 | -.23500 | -.21600 | .00890 | 15.99460 | .02395 | .01222 |
| .600 | -4.740 | -4.74000 | 4.75000 | -.01000 | -.02876 | -.23800 | -.22500 | .00940 | 16.00280 | .02421 | .01271 |
| .600 | -4.100 | -4.07000 | 4.12000 | -.04000 | -.02906 | -.23600 | -.22400 | .01150 | 16.00020 | .02404 | .01263 |
| .600 | -3.150 | -3.29000 | 3.01000 | -.02000 | -.03025 | -.24000 | -.22800 | .01640 | 16.00430 | .02445 | .01288 |
| .599 | -2.490 | -2.60000 | 2.39000 | -.01000 | -.03036 | -.23900 | -.22600 | .01660 | 15.99920 | .02428 | .01276 |
| .601 | -1.410 | -1.73000 | 1.08000 | -.01000 | -.03107 | -.23900 | -.22200 | .01630 | 16.00740 | .02428 | .01253 |
| .600 | -.550 | -.59000 | .50000 | .00000 | -.03107 | -.23800 | -.22500 | .01550 | 16.00330 | .02421 | .01272 |
| .601 | .070 | .20000 | -.06000 | .00000 | -.03085 | -.23800 | -.22400 | .01460 | 16.01340 | .02427 | .01264 |
| .600 | .720 | .93000 | -.52000 | .00000 | -.03056 | -.23500 | -.22400 | .01580 | 16.00280 | .02332 | .01265 |
| .600 | 1.430 | 1.45000 | -1.40000 | .00000 | -.03113 | -.24100 | -.22600 | .01630 | 16.00310 | .02449 | .01275 |
| .600 | 2.090 | 2.33000 | -1.86000 | .00000 | -.03055 | -.23700 | -.22700 | .01490 | 16.02740 | .02431 | .01278 |
| .599 | 2.950 | 3.04000 | -2.86000 | .00000 | -.03054 | -.23700 | -.22500 | .01640 | 16.02500 | .02415 | .01290 |
| .600 | 3.660 | 3.87000 | -3.45000 | .00000 | -.03005 | -.23900 | -.22900 | .01620 | 16.03220 | .02437 | .01290 |
| .600 | 4.310 | 4.50000 | -4.11000 | .00000 | -.02948 | -.23700 | -.22700 | .01520 | 16.04460 | .02415 | .01283 |
| .601 | 5.240 | 5.53000 | -4.95000 | .00000 | -.02873 | -.23500 | -.22800 | .01590 | 16.03630 | .02388 | .01288 |
| .601 | 5.510 | 5.28000 | -5.74000 | .00000 | -.02874 | -.23500 | -.22700 | .01810 | 16.04350 | .02396 | .01279 |
| .599 | 6.960 | 7.06000 | -6.86000 | .01000 | -.02773 | -.23200 | -.22400 | .01730 | 16.03520 | .02361 | .01265 |
| .600 | 7.460 | 7.24000 | -7.68000 | .02000 | -.02628 | -.23400 | -.22400 | .01780 | 16.06120 | .02382 | .01266 |
| .600 | 7.760 | 7.29000 | -8.23000 | .01000 | -.02513 | -.23500 | -.22700 | .01730 | 16.05360 | .02368 | .01280 |
| .600 | 8.950 | 9.02000 | -8.87000 | .02000 | -.02403 | -.23400 | -.22600 | .01940 | 16.06730 | .02387 | .01273 |
| .600 | 9.940 | 9.95000 | -9.73000 | .01000 | -.02279 | -.23600 | -.22500 | .01680 | 16.05980 | .02398 | .01269 |
| GRADIENT | | 1.03476 | -.96486 | .00290 | -.00009 | .00001 | -.00024 | -.00040 | -.00414 | .00000 | .00001 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK017) (26 FEB 76)

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BRREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000
 BETA = .000 ALPHA = 13.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 27 / 0 RN/L = 7.06 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|---------|----------|--------|--------|
| .499 | -4.980 | -5.06000 | 4.90000 | -.01000 | -.03963 | -.23300 | -.22300 | .01390 | 15.92130 | .02376 | .01261 |
| .499 | -4.350 | -4.45000 | 4.25000 | -.01000 | -.04072 | -.22800 | -.22200 | .01800 | 15.90800 | .02324 | .01252 |
| .499 | -3.460 | -3.82000 | 3.09000 | -.02000 | -.04323 | -.23200 | -.22000 | .01930 | 15.90390 | .02360 | .01243 |
| .500 | -2.720 | -2.92000 | 2.51000 | -.01000 | -.04258 | -.22800 | -.22000 | .01530 | 15.93190 | .02324 | .01242 |
| .499 | -2.230 | -3.48000 | .98000 | .00000 | -.04417 | -.23100 | -.22100 | .01440 | 15.92250 | .02354 | .01245 |
| .499 | -.930 | -1.58000 | .27000 | -.01000 | -.04580 | -.23300 | -.22400 | .01470 | 15.93320 | .02371 | .01266 |
| .499 | .210 | .15000 | -.27000 | .00000 | -.04310 | -.23100 | -.22400 | .01600 | 15.90110 | .02347 | .01266 |
| .499 | .800 | .58000 | -1.01000 | -.01000 | -.04186 | -.23300 | -.22400 | .01210 | 15.89880 | .02375 | .01265 |
| .499 | 1.490 | 1.28000 | -1.70000 | .00000 | -.04482 | -.23400 | -.22300 | .00900 | 15.93080 | .02384 | .01267 |
| .499 | 2.460 | 2.15000 | -2.77000 | .00000 | -.04417 | -.23200 | -.22300 | .00980 | 15.90770 | .02360 | .01257 |
| .499 | 2.940 | 2.72000 | -3.16000 | .00000 | -.04452 | -.23300 | -.22600 | .01220 | 15.93670 | .02376 | .01273 |
| .499 | 3.260 | 3.05000 | -3.48000 | .00000 | -.04355 | -.22800 | -.22400 | .01620 | 15.93300 | .02325 | .01267 |
| .499 | 4.480 | 4.06000 | -4.89000 | .00000 | -.04331 | -.23100 | -.22500 | .01370 | 15.89670 | .02355 | .01268 |
| .499 | 4.920 | 4.43000 | -5.42000 | .00000 | -.04186 | -.23200 | -.22600 | .01120 | 15.89410 | .02362 | .01276 |
| .500 | 5.410 | 5.07000 | -5.74000 | .00000 | -.04180 | -.22800 | -.22300 | .01240 | 15.91430 | .02318 | .01257 |
| .501 | 5.720 | 5.11000 | -6.32000 | .00000 | -.04036 | -.22700 | -.22000 | .01440 | 15.92890 | .02306 | .01241 |
| .500 | 6.650 | 5.84000 | -7.46000 | .01000 | -.03670 | -.22600 | -.22000 | .01230 | 15.89220 | .02302 | .01243 |
| .499 | 7.660 | 7.19000 | -8.14000 | .02000 | -.03760 | -.22600 | -.22300 | .01370 | 15.92580 | .02303 | .01256 |
| .498 | 7.990 | 7.22000 | -8.76000 | .02000 | .03802 | -.22700 | -.22100 | .01380 | 15.93100 | .02306 | .01247 |
| .496 | 8.320 | 6.92000 | -9.72000 | .02000 | -.03520 | -.22500 | -.21700 | .00990 | 15.92390 | .02295 | .01225 |
| .498 | 9.940 | 9.93000 | -9.96000 | .02000 | -.03479 | -.22900 | -.22300 | .01440 | 15.95990 | .02333 | .01258 |
| | GRADIENT | .99839 | -1.00129 | .00142 | -.00020 | -.00010 | -.00046 | -.00051 | -.00082 | .00001 | .00002 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK018) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 8.000 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 25/ 0 RN/L = 8.08 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|--------|----------|---------|---------|
| .582 | -2.070 | -.07000 | -.06000 | .00000 | .02921 | -.22300 | -.22000 | .00740 | 17.66390 | .02268 | .01241 |
| .601 | .280 | -.06000 | -.04000 | -.01000 | .03077 | -.21800 | -.21600 | .00750 | 22.91400 | .02223 | .01217 |
| .600 | 2.360 | -.07000 | -.05000 | -.01000 | .02743 | -.21800 | -.21300 | .00570 | 13.46150 | .02220 | .01199 |
| .600 | 4.820 | -.05000 | -.05000 | .00000 | .01914 | -.21600 | -.20700 | .00830 | 15.21360 | .02200 | .01165 |
| .600 | 7.050 | -.06000 | -.08000 | .00000 | .00660 | -.21600 | -.20500 | .00920 | 15.58810 | .02200 | .01158 |
| .599 | 9.220 | -.05000 | -.08000 | .01000 | -.00742 | -.21700 | -.20300 | .00590 | 15.74850 | .02208 | .01148 |
| .599 | 11.410 | -.07000 | -.09000 | .00000 | -.02399 | -.22100 | -.20900 | .00580 | 15.81690 | .02246 | .01179 |
| .599 | 12.310 | -.08000 | -.08000 | .00000 | -.02897 | -.22300 | -.21200 | .00540 | 15.86230 | .02271 | .01197 |
| .598 | 13.550 | -.06000 | -.06000 | .00000 | -.03276 | -.23000 | -.22000 | .00630 | 15.92710 | .02341 | .01241 |
| .597 | 14.570 | -.08000 | -.12000 | .01000 | -.03219 | -.23900 | -.22700 | .00630 | 15.97060 | .02437 | .01281 |
| .597 | 15.710 | -.10000 | -.08000 | -.01000 | -.03297 | -.24600 | -.23100 | .00780 | 15.99050 | .02505 | .01306 |
| .600 | 16.800 | -.09000 | -.08000 | .00000 | -.03153 | -.25500 | -.23600 | .00810 | 16.01560 | .02593 | .01333 |
| .601 | 17.770 | -.11000 | -.09000 | -.01000 | -.02897 | -.26800 | -.24900 | .00780 | 16.05940 | .02730 | .01407 |
| .600 | 20.070 | -.11000 | -.10000 | .00000 | -.02827 | -.28600 | -.27400 | .00950 | 16.18460 | .02915 | .01543 |
| | GRADIENT | .00227 | .00091 | .00002 | -.00148 | .00093 | .00185 | .00005 | -.71037 | -.00009 | -.00011 |

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 211

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUJ019) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|---------|----------|--------|---------|
| .598 | -2.210 | -.03000 | -.10000 | .03000 | .03226 | -.20900 | -.20000 | .00570 | 17.62770 | .02132 | .01131 |
| .596 | -.070 | -.04000 | -.12000 | .03000 | .03375 | -.21200 | -.20300 | .00520 | 21.02920 | .02159 | .01148 |
| .596 | 1.940 | -.04000 | -.08000 | .01000 | .03092 | -.21200 | -.20100 | .00570 | 12.46370 | .02159 | .01137 |
| .596 | 4.150 | -.05000 | -.09000 | .01000 | .02340 | -.21200 | -.19600 | .00400 | 14.97060 | .02159 | .01104 |
| .596 | 6.250 | -.06000 | -.11000 | .02000 | .01339 | -.21200 | -.19300 | .00400 | 15.45260 | .02162 | .01090 |
| .596 | 8.350 | -.01000 | -.10000 | .04000 | -.00052 | -.21300 | -.19100 | .00570 | 15.70730 | .02173 | .01078 |
| .596 | 10.470 | -.05000 | -.11000 | .02000 | -.01431 | -.21700 | -.19500 | .00770 | 15.79150 | .02213 | .01098 |
| .596 | 12.730 | -.05000 | -.10000 | .02000 | -.02110 | -.22000 | -.19700 | .00660 | 15.81380 | .02236 | .01113 |
| .596 | 13.460 | -.06000 | -.09000 | .01000 | -.02080 | -.22500 | -.20300 | .00860 | 15.91750 | .02286 | .01144 |
| .596 | 14.470 | -.06000 | -.10000 | .01000 | -.02073 | -.22800 | -.20800 | .00660 | 15.92960 | .02321 | .01172 |
| .596 | 15.530 | -.04000 | -.09000 | .02000 | -.02358 | -.23500 | -.21500 | .00740 | 15.98780 | .02397 | .01212 |
| .596 | 16.530 | -.04000 | -.10000 | .02000 | -.02275 | -.24000 | -.22000 | .01030 | 16.04060 | .02442 | .01242 |
| .595 | 18.710 | -.02000 | -.08000 | .02000 | -.02048 | -.25200 | -.23300 | .00570 | 16.11230 | .02563 | .01316 |
| | GRADIENT | -.00284 | -.00322 | -.00374 | -.02184 | -.27100 | -.25600 | -.00260 | 16.16460 | .02761 | .01445 |
| | | | | | -.00140 | -.00042 | .00067 | -.00022 | -.76148 | .00004 | -.00004 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

4.500 ELEVON = .000
 .000 BETA = .000
 1.000 SPDBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 38/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|--------|----------|---------|---------|
| .896 | -2.320 | .01000 | -.05000 | .03000 | .04276 | -.23700 | -.22800 | .00490 | 18.06230 | .02408 | .01287 |
| .897 | -.020 | .01000 | -.06000 | .04000 | .04463 | -.23600 | -.22300 | .00510 | 22.74770 | .02400 | .01260 |
| .896 | 2.050 | .00000 | -.05000 | .03000 | .04374 | -.23400 | -.22100 | .00800 | 14.18860 | .02382 | .01250 |
| .897 | 4.360 | .00000 | -.05000 | .02000 | .04238 | -.23400 | -.21800 | .00750 | 15.45770 | .02380 | .01230 |
| .897 | 6.510 | .00000 | -.05000 | .02000 | .04145 | -.23300 | -.21200 | .00600 | 15.57500 | .02370 | .01199 |
| .897 | 8.680 | .00000 | -.06000 | .02000 | .03930 | -.23600 | -.21300 | .00750 | 15.74870 | .02402 | .01203 |
| .896 | 10.800 | .02000 | -.06000 | .04000 | .03842 | -.24700 | -.22600 | .01480 | 15.88460 | .02511 | .01277 |
| .896 | 11.730 | .00000 | -.07000 | .03000 | .03778 | -.25200 | -.23200 | .01530 | 15.95240 | .02567 | .01309 |
| .897 | 13.120 | .00000 | -.07000 | .03000 | .03640 | -.26500 | -.23900 | .01110 | 16.02700 | .02698 | .01351 |
| .897 | 13.840 | -.02000 | -.07000 | .02000 | .03672 | -.27200 | -.24600 | .01760 | 16.10710 | .02766 | .01388 |
| .896 | 14.910 | .01000 | -.08000 | .05000 | .03611 | -.27600 | -.25300 | .01330 | 16.14370 | .02814 | .01429 |
| .896 | 16.030 | .00000 | -.08000 | .04000 | .03493 | -.28300 | -.26300 | .01160 | 16.14590 | .02885 | .01482 |
| .896 | 17.040 | -.04000 | -.08000 | .01000 | .03297 | -.29000 | -.27300 | .01420 | 16.15570 | .02956 | .01542 |
| .897 | 19.300 | -.03000 | -.09000 | .02000 | .02949 | -.31700 | -.30700 | .01440 | 16.16550 | .03222 | .01732 |
| | GRADIENT | -.00178 | .00042 | -.00179 | -.00009 | .00049 | .00145 | .00048 | -.71620 | -.00005 | -.00008 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUJ021) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 986.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 3.500 ELEVON = .000
 AILRON = 2.000 BETA = .000
 CRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 31/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|---------|---------|---------|---------|----------|---------|---------|
| .596 | -2.200 | 1.93000 | -2.12000 | 2.02000 | .03186 | -.21300 | -.20800 | .00620 | 17.53050 | .02171 | .01173 |
| .597 | -.010 | 1.95000 | -2.14000 | 2.05000 | .03280 | -.21400 | -.20600 | .00590 | 21.46970 | .02175 | .01161 |
| .596 | 2.000 | 1.96000 | -2.14000 | 2.05000 | .02980 | -.21300 | -.20300 | .00650 | 12.60340 | .02164 | .01145 |
| .596 | 4.220 | 1.94000 | -2.15000 | 2.05000 | .02317 | -.21200 | -.19900 | .00400 | 14.97230 | .02155 | .01124 |
| .596 | 6.270 | 1.97000 | -2.14000 | 2.06000 | .01365 | -.21200 | -.19600 | .00770 | 15.51750 | .02161 | .01104 |
| .596 | 8.400 | 1.95000 | -2.14000 | 2.05000 | -.00014 | -.21300 | -.19300 | .00570 | 15.71330 | .02164 | .01091 |
| .596 | 10.480 | 1.95000 | -2.14000 | 2.05000 | -.01358 | -.21500 | -.19600 | .00960 | 15.81040 | .02190 | .01104 |
| .596 | 11.390 | 1.94000 | -2.16000 | 2.05000 | -.0.995 | -.21900 | -.20100 | .00450 | 15.82860 | .02228 | .01133 |
| .596 | 12.760 | 1.96000 | -2.13000 | 2.05000 | -.02272 | -.22300 | -.20400 | .00680 | 15.90120 | .02269 | .01153 |
| .595 | 13.440 | 1.97000 | -2.16000 | 2.06000 | -.02072 | -.22700 | -.21100 | .00740 | 15.95360 | .02313 | .01189 |
| .596 | 14.480 | 1.93000 | -2.17000 | 2.05000 | -.02382 | -.23200 | -.21500 | .00880 | 15.97520 | .02365 | .01213 |
| .595 | 15.560 | 1.96000 | -2.14000 | 2.05000 | -.02179 | -.23900 | -.22200 | .01050 | 16.04340 | .02434 | .01251 |
| .596 | 16.530 | 1.94000 | -2.17000 | 2.06000 | -.02135 | -.25000 | -.23200 | .01050 | 16.08140 | .02541 | .01309 |
| .596 | 18.710 | 1.92000 | -2.13000 | 2.02000 | -.02128 | -.27100 | -.25500 | .01630 | 16.18220 | .02759 | .01438 |
| | GRADIENT | .00185 | -.00425 | .00425 | -.00137 | .00019 | .00141 | -.00029 | -.75720 | -.00003 | -.00008 |

(SUK022) (26 FEB 76)

REFERENCE DATA

SREF = 2650.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 37/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|---------|----------|---------|---------|---------|---------|---------|----------|---------|---------|
| .897 | -2.310 | 1.99000 | -2.10000 | 2.05000 | .04384 | -.23800 | -.22900 | .00560 | 18.09050 | .02420 | .01291 |
| .896 | .000 | 2.00000 | -2.11000 | 2.06000 | .04467 | -.23500 | -.22300 | .01010 | 22.85240 | .02405 | .01258 |
| .897 | 2.040 | 1.98000 | -2.12000 | 2.05000 | .04488 | -.23500 | -.22100 | .00810 | 13.87960 | .02393 | .01249 |
| .896 | 4.380 | 1.97000 | -2.06000 | 2.02000 | .04264 | -.23500 | -.21800 | .00610 | 15.42810 | .02388 | .01232 |
| .896 | 6.480 | 2.01000 | -2.06000 | 2.04000 | .04153 | -.23600 | -.21600 | .00480 | 15.60680 | .02402 | .01218 |
| .896 | 8.670 | 1.98000 | -2.04000 | 2.01000 | .03929 | -.23700 | -.21400 | .00920 | 15.74140 | .02410 | .01208 |
| .897 | 10.790 | 2.00000 | -2.03000 | 2.02000 | .03799 | -.24900 | -.22900 | .01750 | 15.89830 | .02533 | .01289 |
| .897 | 11.730 | 1.99000 | -2.04000 | 2.02000 | .03771 | -.25300 | -.23200 | .01180 | 15.94330 | .02576 | .01307 |
| .896 | 13.080 | 1.98000 | -2.03000 | 2.01000 | .03748 | -.26600 | -.24200 | .01510 | 16.06260 | .02708 | .01368 |
| .897 | 13.850 | 1.98000 | -2.04000 | 2.01000 | .03698 | -.27200 | -.24600 | .01200 | 16.09540 | .02765 | .01389 |
| .897 | 14.910 | 1.95000 | -2.07000 | 2.01000 | .03544 | -.28000 | -.25600 | .01200 | 16.14220 | .02851 | .01446 |
| .896 | 16.000 | 1.95000 | -2.08000 | 2.02000 | .03544 | -.28300 | -.26500 | .01850 | 16.15870 | .02880 | .01495 |
| .898 | 17.000 | 1.94000 | -2.07000 | 2.01000 | .03432 | -.29200 | -.27600 | .02170 | 16.18520 | .02973 | .01555 |
| .897 | 19.280 | 1.94000 | -2.08000 | 2.01000 | .03006 | -.31800 | -.30800 | .01880 | 16.17280 | .03239 | .01740 |
| GRADIENT | | -.00358 | .00507 | -.00453 | -.00016 | .00045 | .00159 | -.00002 | -.73928 | -.00005 | -.00008 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK023) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = 10.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 32/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|
| .595 | -2.150 | 9.95000 | 9.98000 | -.01000 | .03907 | -.23000 | -.22200 | .00480 | 63.57150 | .02344 | .01254 |
| .595 | .020 | 9.95000 | 9.97000 | .00000 | .04065 | -.22800 | -.22000 | .00370 | 19.15100 | .02322 | .01244 |
| .596 | 2.000 | 9.91000 | 9.97000 | -.03000 | .03765 | -.22700 | -.21600 | .00620 | 17.82320 | .02307 | .01218 |
| .596 | 4.250 | 9.91000 | 9.96000 | -.02000 | .03008 | -.22600 | -.20900 | .00390 | 17.27040 | .02304 | .01180 |
| .597 | 6.310 | 9.94000 | 9.93000 | .00000 | .01977 | -.22500 | -.20700 | .00440 | 17.05100 | .02290 | .01167 |
| .596 | 8.430 | 9.93000 | 9.93000 | .00000 | .00703 | -.22500 | -.20300 | .00640 | 16.95940 | .02296 | .01146 |
| .596 | 10.530 | 9.91000 | 9.93000 | -.01000 | -.00659 | -.22900 | -.20400 | .00540 | 16.84580 | .02333 | .01152 |
| .595 | 11.420 | 9.94000 | 9.94000 | .00000 | -.01215 | -.23100 | -.20800 | .00540 | 16.79170 | .02355 | .01174 |
| .595 | 12.730 | 9.92000 | 9.97000 | -.02000 | -.01510 | -.23500 | -.21300 | .00570 | 16.78970 | .02393 | .01203 |
| .596 | 13.500 | 9.91000 | 9.96000 | -.02000 | -.01400 | -.24000 | -.21600 | .00960 | 16.76250 | .02442 | .01221 |
| .596 | 14.550 | 9.92000 | 9.94000 | -.01000 | -.01207 | -.24600 | -.22300 | .00880 | 16.74140 | .02500 | .01261 |
| .595 | 15.600 | 9.92000 | 9.94000 | -.01000 | -.00970 | -.25700 | -.23900 | .01020 | 16.73350 | .02616 | .01346 |
| .596 | 16.550 | 9.92000 | 9.93000 | .00000 | -.00594 | -.27000 | -.25000 | .01420 | 16.73980 | .02749 | .01410 |
| .596 | 18.750 | 9.93000 | 9.93000 | .00000 | -.00516 | -.29200 | -.27400 | .01680 | 16.73620 | .02972 | .01546 |
| GRADIENT | | -.00747 | -.00285 | -.00275 | -.00142 | .00061 | .00203 | -.00002 | -6.62160 | -.00006 | -.00012 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK024) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 36/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|--------|---------|---------|---------|----------|---------|---------|
| .897 | -2.330 | 10.04000 | 9.97000 | .03000 | .04901 | -.24200 | -.23200 | .00720 | 15.69930 | .02464 | .01307 |
| .896 | -.050 | 10.02000 | 10.01000 | .00000 | .05045 | -.23800 | -.22700 | .00660 | 19.19170 | .02427 | .01280 |
| .897 | 2.050 | 10.03000 | 9.97000 | .03000 | .05125 | -.23700 | -.22500 | .00630 | 17.46520 | .02415 | .01272 |
| .897 | 4.350 | 10.02000 | 9.98000 | .02000 | .05074 | -.23600 | -.22200 | .00560 | 17.36410 | .02402 | .01254 |
| .896 | 6.450 | 10.04000 | 9.97000 | .03000 | .04947 | -.24400 | -.22500 | .00710 | 17.25180 | .02483 | .01269 |
| .897 | 8.640 | 10.01000 | 10.02000 | .00000 | .04708 | -.25900 | -.23000 | .00960 | 17.08770 | .02639 | .01296 |
| .897 | 10.790 | 10.00000 | 9.99000 | .00000 | .04580 | -.28200 | -.24900 | .01330 | 17.03900 | .02870 | .01405 |
| .897 | 11.760 | 10.00000 | 10.00000 | .00000 | .04644 | -.29200 | -.25600 | .00920 | 17.03050 | .02967 | .01444 |
| .897 | 13.120 | 9.99000 | 9.97000 | .01000 | .04764 | -.30600 | -.27000 | .00770 | 17.03190 | .03118 | .01523 |
| .896 | 13.920 | 10.00000 | 10.00000 | .00000 | .04794 | -.31500 | -.27800 | .00940 | 17.02680 | .03207 | .01570 |
| .897 | 14.930 | 10.00000 | 10.01000 | .00000 | .04833 | -.32400 | -.28900 | .01470 | 17.01060 | .03297 | .01632 |
| .897 | 16.070 | 9.98000 | 9.99000 | .00000 | .04755 | -.33400 | -.30000 | .01570 | 16.97560 | .03394 | .01694 |
| .897 | 17.070 | 10.02000 | 9.97000 | .02000 | .04602 | -.34700 | -.31600 | .01380 | 16.94210 | .03528 | .01782 |
| .896 | 19.290 | 10.00000 | 10.00000 | .00000 | .04244 | -.36300 | -.35000 | .01980 | 16.80410 | .03690 | .01971 |
| | GRADIENT | -.00229 | -.00036 | -.00007 | .00027 | .00086 | .00145 | -.00023 | .15213 | -.00009 | -.00008 |

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LAS2 (GAPS OPEN, GRIT ON)

(SUK025) (25 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = 10.000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 33/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|---------|---------|---------|---------|---------|---------|-----------|---------|---------|
| .596 | -2.150 | 12.01000 | 8.00000 | 2.00000 | .03958 | -.22800 | -.22100 | .00850 | -55.36890 | .02319 | .01250 |
| .596 | .040 | 12.01000 | 8.01000 | 1.99000 | .04007 | -.22800 | -.22100 | .00450 | 19.08560 | .02323 | .01248 |
| .596 | 2.000 | 12.00000 | 7.99000 | 2.00000 | .03708 | -.22500 | -.21500 | .00510 | 17.77690 | .02286 | .01216 |
| .596 | 4.260 | 11.98000 | 7.99000 | 1.99000 | .02951 | -.22600 | -.21100 | .00420 | 17.22770 | .02301 | .01193 |
| .596 | 6.320 | 11.97000 | 7.99000 | 1.98000 | .01917 | -.22500 | -.20900 | .00390 | 17.01200 | .02294 | .01180 |
| .596 | 8.420 | 11.57000 | 7.98000 | 1.99000 | .06555 | -.22400 | -.20600 | .00390 | 16.93200 | .02285 | .01160 |
| .595 | 10.520 | 11.97000 | 8.00000 | 1.98000 | -.00581 | -.22700 | -.20700 | .00750 | 16.81680 | .02314 | .01169 |
| .595 | 11.420 | 11.97000 | 8.00000 | 1.98000 | -.01216 | -.22900 | -.20800 | .01110 | 16.80940 | .02328 | .01175 |
| .596 | 12.740 | 11.97000 | 8.00000 | 1.98000 | -.01556 | -.23500 | -.21300 | .00820 | 16.75060 | .02388 | .01202 |
| .596 | 13.500 | 11.97000 | 7.99000 | 1.98000 | -.01382 | -.23500 | -.21700 | .00730 | 16.75950 | .02425 | .01227 |
| .595 | 14.510 | 11.97000 | 7.99000 | 1.98000 | -.01220 | -.24500 | -.22600 | .01250 | 16.74000 | .02496 | .01275 |
| .595 | 15.590 | 11.97000 | 8.01000 | 1.98000 | -.01113 | -.24900 | -.23200 | .01590 | 16.71600 | .02540 | .01309 |
| .598 | 16.560 | 11.97000 | 8.00000 | 1.98000 | -.00634 | -.26600 | -.25000 | .02180 | 16.72110 | .02707 | .01409 |
| .595 | 18.740 | 11.97000 | 8.01000 | 1.98000 | -.00772 | -.28200 | -.27100 | .01900 | 16.71410 | .02873 | .01527 |
| | GRADIENT | -.00473 | -.00231 | -.00099 | -.00143 | .00042 | .00169 | -.00058 | 10.24109 | -.00004 | -.00010 |

LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|---------|---------|--------|---------|---------|---------|----------|---------|---------|
| .896 | -2.270 | 12.03000 | 8.07000 | 1.97000 | .04794 | -.25400 | -.24600 | .00560 | 15.33300 | -.02584 | .01389 |
| .896 | .020 | 12.03000 | 8.08000 | 1.97000 | .04938 | -.25200 | -.24200 | .00870 | 19.29210 | .02563 | .01363 |
| .896 | 2.080 | 12.04000 | 8.04000 | 1.99000 | .05001 | -.25000 | -.23900 | .00500 | 17.55610 | .02544 | .01347 |
| .896 | 4.370 | 11.99000 | 8.06000 | 1.96000 | .04986 | -.24800 | -.23700 | .00480 | 17.40220 | .02522 | .01336 |
| .896 | 6.520 | 12.01000 | 8.09000 | 1.96000 | .04903 | -.25300 | -.23700 | .00750 | 17.27850 | .02574 | .01340 |
| .896 | 8.690 | 11.99000 | 8.05000 | 1.96000 | .04699 | -.26200 | -.23900 | .00850 | 17.11600 | .02564 | .01346 |
| .896 | 10.810 | 11.99000 | 8.07000 | 1.95000 | .04627 | -.28100 | -.25400 | .01300 | 17.05400 | .02860 | .01434 |
| .896 | 11.770 | 11.98000 | 8.05000 | 1.96000 | .04676 | -.29000 | -.26100 | .00890 | 17.02470 | .02948 | .01471 |
| .896 | 13.180 | 11.98000 | 8.05000 | 1.96000 | .04785 | -.30500 | -.27500 | .01000 | 17.02550 | .03106 | .01553 |
| .897 | 13.900 | 11.98000 | 8.04000 | 1.96000 | .04826 | -.31300 | -.28100 | .00870 | 17.02480 | .03184 | .01644 |
| .897 | 14.950 | 11.98000 | 8.04000 | 1.96000 | .04882 | -.32200 | -.29100 | .01220 | 17.01800 | .03274 | .01704 |
| .896 | 16.050 | 11.98000 | 8.05000 | 1.96000 | .04829 | -.32000 | -.30200 | .01240 | 16.97940 | .03377 | .01779 |
| .897 | 17.080 | 11.98000 | 8.04000 | 1.97000 | .04669 | -.34300 | -.31500 | .01200 | 16.93460 | .03485 | .01968 |
| .896 | 19.300 | 12.02000 | 8.04000 | 1.99000 | .04387 | -.35700 | -.34900 | .01200 | 16.81780 | .03632 | .01968 |
| | GRADIENT | -.00507 | -.00308 | -.00052 | .00029 | .00091 | .00136 | -.00022 | .21028 | -.00009 | -.00008 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK027) (26 FEB 76)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 43/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|--------|---------|---------|---------|--------|----------|--------|---------|
| .597 | -2.210 | .01000 | .00000 | .00000 | .03151 | -.20700 | -.20200 | .00370 | 17.83980 | .02108 | .01139 |
| .598 | -.020 | .01000 | .00000 | .01000 | .03340 | -.20700 | -.20100 | .00390 | 20.73200 | .02110 | .01134 |
| .599 | 1.920 | .00000 | .00000 | .00000 | .02997 | -.21100 | -.20300 | .00560 | 9.41950 | .02144 | .01146 |
| .598 | 4.180 | .00000 | .05000 | .03000 | .02269 | -.20900 | -.19600 | .00420 | 14.56730 | .02127 | .01106 |
| .597 | 6.270 | .00000 | .04000 | .02000 | .01235 | -.21000 | -.19500 | .00310 | 15.26130 | .02139 | .01099 |
| .597 | 8.380 | .02000 | .05000 | .04000 | .00046 | -.21200 | -.19600 | .00450 | 15.58630 | .02156 | .01104 |
| .597 | 10.460 | .00000 | .01000 | .00000 | .01361 | -.21500 | -.19700 | .00530 | 15.68540 | .02187 | .01110 |
| .597 | 11.410 | -.03000 | .03000 | .00000 | .01992 | -.21600 | -.19800 | .00360 | 15.71690 | .02198 | .01120 |
| .598 | 12.730 | .00000 | .05000 | .02000 | .02117 | -.22300 | -.20500 | .00360 | 15.85660 | .02266 | .01159 |
| .598 | 13.500 | -.02000 | .01000 | .00000 | .02123 | -.22800 | -.21100 | .00390 | 15.89280 | .02322 | .01188 |
| .597 | 14.510 | -.02000 | .02000 | .00000 | .02421 | -.23300 | -.21700 | .00500 | 15.95400 | .02373 | .01223 |
| .597 | 15.610 | .00000 | .02000 | .01000 | .02360 | -.24000 | -.22200 | .00560 | 16.01940 | .02440 | .01255 |
| .596 | 16.560 | -.03000 | .02000 | .00000 | .02154 | -.24800 | -.23200 | .00730 | 16.06900 | .02522 | .01308 |
| .597 | 18.700 | -.02000 | .04000 | .00000 | .02114 | -.26900 | -.25800 | .01270 | 16.15200 | .02741 | .01455 |
| | GRADIENT | -.00187 | -.00720 | .00388 | -.00142 | -.00046 | .00078 | .00014 | -.95920 | .00004 | -.00004 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK028) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AIRLON = .000 BETA = .000
 GRIT = 1.000 SFCBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 212/ 0 RN/L = 4.53 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AIRLON | CAF | CPB | CPC | CEL RMS | XCP | CAB | CAC |
|------|----------|---------|--------|---------|---------|---------|---------|---------|----------|--------|---------|
| .348 | -2.110 | .01000 | .01000 | .00000 | .03247 | -.18500 | -.17800 | .00970 | 17.94850 | .01882 | .01003 |
| .349 | .000 | .02000 | .06000 | -.02000 | .03395 | -.18500 | -.17700 | .00610 | 20.88070 | .01889 | .00997 |
| .349 | 1.910 | .02000 | .04000 | .00000 | .03174 | -.18500 | -.17700 | .00790 | 9.22700 | .01899 | .00999 |
| .349 | 3.900 | .01000 | .06000 | -.02000 | .02487 | -.18700 | -.17400 | .00720 | 14.39750 | .01908 | .00985 |
| .349 | 6.150 | .00000 | .03000 | .01000 | .01537 | -.18700 | -.17200 | .01000 | 15.19650 | .01904 | .00969 |
| .349 | 8.250 | .00000 | .01000 | -.01000 | .00307 | -.19000 | -.17200 | .00790 | 15.49630 | .01933 | .00974 |
| .348 | 10.300 | .00000 | .02000 | -.01000 | -.01085 | -.19200 | -.17500 | .01010 | 15.60830 | .01955 | .00988 |
| .348 | 11.260 | -.01000 | .11000 | -.06000 | -.01960 | -.19500 | -.17400 | .01110 | 15.68160 | .01985 | .00985 |
| .348 | 11.910 | -.02000 | .04000 | -.03000 | -.02497 | -.19600 | -.17800 | .01080 | 15.67990 | .02001 | .01006 |
| .348 | 13.320 | -.03000 | .03000 | -.03000 | -.03459 | -.20000 | -.18500 | .01230 | 15.71670 | .02041 | .01047 |
| .348 | 14.300 | -.01000 | .04000 | -.03000 | -.04272 | -.20300 | -.18900 | .00860 | 15.75650 | .02070 | .01068 |
| .348 | 15.350 | -.02000 | .03000 | -.03000 | -.05086 | -.21100 | -.19400 | .00790 | 15.80650 | .02151 | .01095 |
| .348 | 16.370 | -.01000 | .00000 | -.01000 | -.06023 | -.22100 | -.19900 | .00790 | 15.89620 | .02255 | .01122 |
| .348 | 18.570 | -.02000 | .06000 | -.04000 | -.07102 | -.23300 | -.20700 | .01230 | 16.00740 | .02370 | .01169 |
| | GRADIENT | .00003 | .00664 | -.00206 | -.00124 | -.00035 | .00060 | -.00030 | -1.09953 | .00004 | -.00003 |

RUN NO. 125/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AIRLON | CAF | CPB | CPC | CEL RMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|---------|----------|--------|---------|
| .597 | -2.210 | -.04000 | -.05000 | .00000 | .02990 | -.20600 | -.20000 | .00530 | 17.88660 | .02098 | .01128 |
| .595 | -.020 | -.04000 | -.02000 | -.01000 | .03142 | -.20700 | -.20000 | .00560 | 20.35050 | .02113 | .01129 |
| .597 | 2.010 | -.03000 | -.05000 | .00000 | .02855 | -.20700 | -.19800 | .00490 | 9.62050 | .02112 | .01116 |
| .597 | 4.320 | -.02000 | -.07000 | .02000 | .02162 | -.20800 | -.19400 | .00550 | 14.39960 | .02116 | .01095 |
| .597 | 6.410 | -.04000 | -.07000 | .01000 | .01146 | -.20900 | -.19300 | .00750 | 15.19200 | .02133 | .01090 |
| .597 | 8.630 | -.03000 | -.04000 | .00000 | -.00293 | -.21000 | -.19200 | .00730 | 15.53610 | .02143 | .01085 |
| .596 | 10.590 | -.04000 | -.04000 | .00000 | -.01581 | -.21300 | -.19500 | .00360 | 15.64870 | .02169 | .01103 |
| .597 | 11.580 | -.03000 | -.08000 | .02000 | -.02311 | -.21600 | -.19700 | .00380 | 15.69860 | .02202 | .01113 |
| .597 | 12.820 | -.03000 | -.05000 | .00000 | -.02980 | -.22000 | -.20300 | .00550 | 15.78710 | .02244 | .01147 |
| .596 | 13.630 | -.02000 | -.04000 | .00000 | -.03010 | -.22600 | -.20700 | .00470 | 15.83000 | .02301 | .01171 |
| .597 | 14.690 | -.04000 | -.06000 | .00000 | -.03030 | -.23400 | -.21500 | .00820 | 15.89570 | .02385 | .01212 |
| .597 | 15.780 | -.04000 | -.05000 | .00000 | -.02979 | -.24000 | -.21900 | .00680 | 15.96740 | .02443 | .01235 |
| .598 | 15.840 | -.04000 | -.07000 | .01000 | -.02814 | -.25000 | -.22900 | .00620 | 16.01480 | .02546 | .01290 |
| .597 | 19.040 | -.04000 | -.07000 | .01000 | -.02950 | -.27500 | -.25600 | .00850 | 16.13550 | .02797 | .01442 |
| | GRADIENT | .00324 | .00416 | .00326 | -.00129 | -.00028 | .00093 | -.00001 | -.94929 | .00002 | -.00005 |

LA7C BASELINE NO. 3 (GAPS SEALED, GRIT ON) (SUK028) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. YO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BRFF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPCBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 154/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|---------|---------|--------|---------|---------|---------|---------|----------|---------|---------|
| .796 | -2.230 | .0000 | -.0100 | .0000 | .03160 | -.21800 | -.21500 | .00800 | 18.11840 | .02224 | .01214 |
| .798 | .080 | .0000 | -.0100 | .0000 | .03304 | -.21600 | -.21000 | .00600 | 20.88870 | .02199 | .01184 |
| .796 | 2.050 | .0000 | -.0100 | .0000 | .03054 | -.21600 | -.20700 | .00510 | 4.21610 | .02197 | .01170 |
| .797 | 4.340 | -.0100 | -.0300 | .0000 | .02446 | -.21400 | -.20300 | .00510 | 14.04500 | .02182 | .01147 |
| .797 | 6.510 | -.0100 | -.0400 | .0100 | .01750 | -.21400 | -.20100 | .00460 | 15.19740 | .02183 | .01133 |
| .797 | 8.690 | .0000 | -.0300 | .0100 | .01306 | -.21900 | -.20200 | .00360 | 15.56560 | .02333 | .01141 |
| .797 | 10.780 | -.0200 | -.0300 | .0000 | .01069 | -.22700 | -.20900 | .00780 | 15.69090 | .02316 | .01182 |
| .796 | 11.750 | -.0200 | -.0400 | .0000 | .00953 | -.23200 | -.21200 | .00930 | 15.70900 | .02366 | .01198 |
| .796 | 12.750 | -.0100 | -.0400 | .0100 | .00945 | -.24000 | -.21700 | .01020 | 15.77900 | .02442 | .01226 |
| .797 | 13.880 | -.0100 | -.0300 | .0000 | .00965 | -.25000 | -.22500 | .01320 | 15.86230 | .02545 | .01272 |
| .796 | 14.920 | -.0300 | -.0300 | .0000 | .01160 | -.26200 | -.23800 | .01430 | 16.01290 | .02665 | .01342 |
| .794 | 15.990 | -.0400 | -.0600 | .0000 | .01180 | -.27200 | -.25000 | .01860 | 16.09340 | .02768 | .01412 |
| .797 | 17.010 | -.0300 | -.0300 | .0000 | .01003 | -.28300 | -.26300 | .01080 | 16.09850 | .02860 | .01485 |
| .796 | 19.300 | -.0400 | -.0500 | .0000 | .00765 | -.30800 | -.29400 | .01530 | 16.10470 | .03138 | .01660 |
| GRADIENT | | -.00139 | -.00279 | .00300 | -.00110 | .00056 | .00180 | -.00044 | -1.26724 | -.00006 | -.00010 |

RUN NO. 50/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|--------|---------|--------|--------|---------|---------|---------|-----------|---------|---------|
| .896 | -2.310 | -.0100 | .0600 | -.0400 | .04271 | -.23800 | -.22800 | .00690 | 18.116890 | .02420 | .01284 |
| .896 | .000 | -.0100 | .0300 | -.0200 | .04407 | -.23500 | -.22200 | .00510 | 22.48150 | .02341 | .01252 |
| .896 | 2.050 | -.0100 | .0500 | -.0300 | .04405 | -.23200 | -.21900 | .00620 | 12.99150 | .02364 | .01237 |
| .896 | 4.390 | .0000 | .0500 | -.0200 | .04298 | -.23500 | -.21800 | .00740 | 15.14500 | .02389 | .01230 |
| .896 | 6.480 | .0000 | .0200 | .0000 | .04114 | -.23400 | -.21200 | .00620 | 15.40080 | .02377 | .01196 |
| .896 | 8.680 | -.0100 | .0300 | -.0200 | .03898 | -.23600 | -.21200 | .00530 | 15.65380 | .02406 | .01195 |
| .896 | 10.780 | .0000 | .0300 | -.0200 | .03814 | -.24700 | -.22600 | .00970 | 15.85220 | .02511 | .01277 |
| .896 | 13.170 | -.0200 | .0300 | -.0300 | .03699 | -.26800 | -.24300 | .01110 | 16.06820 | .02728 | .01373 |
| .897 | 13.900 | -.0400 | .0100 | -.0300 | .03619 | -.27300 | -.24700 | .01440 | 16.10720 | .02780 | .01393 |
| .897 | 14.910 | -.0300 | .0100 | -.0200 | .03577 | -.28000 | -.25500 | .01840 | 16.15080 | .02851 | .01439 |
| .897 | 16.050 | -.0200 | .0000 | -.0100 | .03403 | -.28800 | -.26600 | .01160 | 16.15120 | .02927 | .01498 |
| .896 | 17.070 | -.0200 | .0000 | -.0100 | .03255 | -.29200 | -.27500 | .01390 | 16.16400 | .02967 | .01549 |
| .896 | 19.300 | -.0500 | .0100 | -.0300 | .02834 | -.32000 | -.30900 | .01390 | 16.16570 | .03254 | .01745 |
| GRADIENT | | .00137 | -.00052 | .00231 | .00004 | -.00053 | .00149 | -.00012 | -.82645 | -.00005 | -.00008 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 185/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|
| .948 | -2.160 | -.01000 | -.05000 | .01000 | .06105 | -.28000 | -.26200 | .00610 | 18.74320 | .02846 | .01477 |
| .947 | .140 | -.02000 | -.06000 | .01000 | .06118 | -.27100 | -.25200 | .00430 | 23.81620 | .02762 | .01420 |
| .947 | .350 | .00000 | .00000 | .00000 | .06055 | -.27700 | -.25800 | .00820 | 24.72360 | .02824 | .01455 |
| .947 | 2.180 | -.01000 | -.05000 | .01000 | .06055 | -.26900 | -.24900 | .00670 | 12.45730 | .02742 | .01404 |
| .947 | 4.480 | -.02000 | -.05000 | .01000 | .05888 | -.26600 | -.24800 | .00490 | 15.50830 | .02705 | .01397 |
| .948 | 6.690 | -.02000 | -.09000 | .03000 | .05528 | -.26800 | -.25100 | .00490 | 16.04490 | .02726 | .01415 |
| .946 | 8.900 | -.03000 | -.08000 | .02000 | .05032 | -.27500 | -.25300 | .00700 | 16.24460 | .02801 | .01428 |
| .948 | 11.030 | -.07000 | -.06000 | .00000 | .04737 | -.30100 | -.27000 | .00910 | 16.33400 | .03064 | .01522 |
| .946 | 11.980 | -.03000 | -.09000 | .02000 | .04506 | -.31400 | -.27900 | .01340 | 16.33700 | .03197 | .01572 |
| .948 | 13.320 | -.05000 | -.10000 | .02000 | .04368 | -.33600 | -.28900 | .00860 | 16.39020 | .03414 | .01631 |
| .947 | 14.200 | -.07000 | -.09000 | .00000 | .04264 | -.34200 | -.29200 | .00890 | 16.41030 | .03475 | .01649 |
| .947 | 15.200 | -.06000 | -.09000 | .01000 | .04026 | -.35700 | -.30400 | .00920 | 16.41190 | .03633 | .01714 |
| .947 | 16.340 | -.05000 | -.03000 | -.01000 | .03853 | -.37400 | -.32100 | .01050 | 16.39340 | .03805 | .01812 |
| .948 | 17.340 | -.05000 | -.03000 | -.01000 | .03727 | -.38300 | -.33400 | .01100 | 16.41210 | .03895 | .01883 |
| .948 | 19.620 | -.04000 | -.04000 | .00000 | .03167 | -.40800 | -.36000 | .01220 | 16.37380 | .04150 | .02028 |
| GRADIENT | | -.00133 | -.00097 | .00026 | -.00032 | .00211 | .00215 | -.00013 | -1.09214 | -.00021 | -.00012 |

RUN NO. 291/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|---------|---------|---------|---------|---------|---------|--------|----------|---------|---------|
| .977 | -2.090 | .02000 | -.02000 | .02000 | .07091 | -.33900 | -.32400 | .00740 | 18.95730 | .03449 | .01829 |
| .976 | .190 | .01000 | -.02000 | .02000 | .07067 | -.32900 | -.31200 | .00520 | 24.24690 | .03349 | .01759 |
| .977 | 2.220 | .02000 | -.02000 | .02000 | .06978 | -.32600 | -.30800 | .00830 | 11.86860 | .03319 | .01737 |
| .977 | 4.470 | .00000 | -.04000 | .02000 | .06740 | -.32400 | -.30800 | .00650 | 15.41150 | .03301 | .01737 |
| .977 | 6.690 | .00000 | -.03000 | .01000 | .06373 | -.33400 | -.31600 | .00460 | 16.03750 | .03394 | .01780 |
| .976 | 8.890 | -.01000 | -.04000 | .01000 | .05970 | -.35100 | -.32600 | .00890 | 16.30140 | .03570 | .01833 |
| .977 | 11.080 | -.01000 | -.05000 | .01000 | .05577 | -.38200 | -.34700 | .00840 | 16.38190 | .03883 | .01956 |
| .977 | 12.040 | -.01000 | -.02000 | .00000 | .05469 | -.39500 | -.35800 | .01090 | 16.43150 | .04016 | .02019 |
| .977 | 12.960 | -.01000 | -.03000 | .00000 | .05248 | -.40700 | -.36800 | .01160 | 16.44960 | .04145 | .02073 |
| .977 | 14.240 | -.01000 | -.02000 | .00000 | .05043 | -.42000 | -.37400 | .00810 | 16.45840 | .04269 | .02111 |
| .977 | 15.270 | -.02000 | -.06000 | .01000 | .04951 | -.42700 | -.37300 | .00860 | 16.46000 | .04343 | .02106 |
| .976 | 16.440 | -.02000 | -.03000 | .00000 | .04890 | -.43200 | -.37900 | .00800 | 16.45250 | .04398 | .02136 |
| .977 | 17.400 | -.02000 | -.05000 | .01000 | .04749 | -.44300 | -.39500 | .00800 | 16.46920 | .04503 | .02227 |
| .977 | 19.680 | -.02000 | -.04000 | .00000 | .04256 | -.46300 | -.42400 | .00770 | 16.50370 | .04710 | .02392 |
| GRADIENT | | -.00235 | -.00278 | -.00000 | -.00053 | .00222 | .00240 | .00001 | -1.02510 | -.00022 | -.00014 |

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK028) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = .0000 ELEVON = .000
 AILRON = .0000 BETA = .000
 GRIT = 1.0000 SPOBRK = 25.000
 RUDDER = .0000 BOFLAP = .000

RUN NO. 247/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|---------|---------|--------|---------|---------|--------|----------|--------|--------|
| 1.047 | -2.140 | -.0200 | -.0100 | .0000 | .08410 | -.40400 | -.39300 | .00450 | 19.25340 | .04114 | .02214 |
| 1.047 | .150 | -.01000 | -.02000 | .00000 | .08405 | -.40300 | -.39200 | .00420 | 24.34200 | .04096 | .02208 |
| 1.048 | 2.180 | -.01000 | -.05000 | .01000 | .08550 | -.40300 | -.39400 | .00630 | 13.16230 | .04103 | .02219 |
| 1.047 | 4.280 | -.02000 | -.04000 | .00000 | .08500 | -.41100 | -.40200 | .00590 | 15.78710 | .04181 | .02265 |
| 1.046 | 6.680 | -.03000 | -.07000 | .01000 | .08172 | -.41800 | -.41000 | .00590 | 16.33250 | .04254 | .02311 |
| 1.048 | 8.860 | -.02000 | -.07000 | .02000 | .07705 | -.42900 | -.42000 | .00660 | 16.45870 | .04359 | .02366 |
| 1.047 | 11.040 | .00000 | -.05000 | .02000 | .07139 | -.44300 | -.42600 | .00350 | 16.49790 | .04505 | .02401 |
| 1.047 | 12.020 | -.02000 | -.07000 | .02000 | .06934 | -.45000 | -.43000 | .00620 | 16.52430 | .04573 | .02422 |
| 1.048 | 12.940 | -.02000 | -.05000 | .01000 | .06783 | -.45500 | -.43200 | .00780 | 16.51870 | .04629 | .02435 |
| 1.047 | 14.150 | -.01000 | -.07000 | .02000 | .06635 | -.46400 | -.44000 | .00710 | 16.54480 | .04717 | .02481 |
| 1.046 | 15.240 | -.01000 | -.04000 | .01000 | .06549 | -.47600 | -.45200 | .00880 | 16.54260 | .04837 | .02547 |
| 1.046 | 16.330 | -.02000 | -.06000 | .01000 | .06349 | -.48800 | -.46900 | .01200 | 16.60800 | .04965 | .02641 |
| 1.047 | 17.360 | -.04000 | -.02000 | -.01000 | .06311 | -.48700 | -.47200 | .01030 | 16.65840 | .04952 | .02662 |
| 1.047 | 19.680 | -.02000 | -.09000 | .03000 | .05877 | -.50900 | -.50300 | .00600 | 16.63100 | .05175 | .02833 |
| | GRADIENT | .00004 | -.00563 | .00047 | .00019 | -.00097 | -.00134 | .00029 | -.98587 | .00010 | .00008 |

RUN NO. 293/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|--------|---------|--------|--------|---------|---------|--------|----------|--------|--------|
| 1.117 | -2.070 | .02000 | -.02000 | .02000 | .08989 | -.35900 | -.34900 | .00920 | 19.38670 | .03655 | .01971 |
| 1.118 | .220 | .02000 | -.03000 | .03000 | .09102 | -.35900 | -.34600 | .01560 | 26.93340 | .03655 | .01951 |
| 1.118 | 2.250 | .02000 | -.07000 | .05000 | .09210 | -.36100 | -.35000 | .01320 | 14.39950 | .03677 | .01974 |
| 1.118 | 4.460 | .02000 | -.06000 | .04000 | .09105 | -.36800 | -.35800 | .01070 | 16.15050 | .03749 | .02020 |
| 1.117 | 6.740 | .02000 | -.08000 | .05000 | .08786 | -.37700 | -.37000 | .01070 | 16.51340 | .03837 | .02086 |
| 1.117 | 8.930 | .01000 | -.07000 | .04000 | .08291 | -.38700 | -.38000 | .00970 | 16.59840 | .03938 | .02145 |
| 1.118 | 11.080 | .03000 | -.02000 | .03000 | .07639 | -.39400 | -.38200 | .01070 | 16.60890 | .04008 | .02154 |
| 1.117 | 12.100 | .02000 | -.07000 | .05000 | .07361 | -.40000 | -.38600 | .01460 | 16.59310 | .04068 | .02179 |
| 1.117 | 12.980 | .02000 | -.06000 | .04000 | .07203 | -.40600 | -.39000 | .01040 | 16.59740 | .04128 | .02199 |
| 1.118 | 15.310 | .02000 | -.06000 | .04000 | .06975 | -.41700 | -.39900 | .01300 | 16.58210 | .04237 | .02252 |
| 1.118 | 16.400 | .04000 | -.03000 | .04000 | .06852 | -.42900 | -.40900 | .01840 | 16.62040 | .04367 | .02308 |
| 1.118 | 17.410 | .02000 | -.07000 | .05000 | .06826 | -.43500 | -.41700 | .01320 | 16.65020 | .04427 | .02351 |
| 1.118 | 19.700 | .02000 | -.01000 | .02000 | .06784 | -.44000 | -.42500 | .01160 | 16.65660 | .04477 | .02394 |
| | GRADIENT | .00000 | -.05000 | .04000 | .05476 | -.44500 | -.44700 | .01360 | 16.63440 | .04632 | .02521 |
| | | .00000 | -.00734 | .00368 | .00021 | -.00134 | -.00142 | .00011 | -.99095 | .00014 | .00008 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

4.500 ELEVON = .000
 .000 BETA = .000
 1.000 SPDBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 59 / 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|--------|---------|---------|--------|----------|---------|---------|
| .896 | -2.280 | .04000 | -1.3000 | .09000 | .04278 | -.23600 | -.22400 | .00540 | 18.17860 | .02399 | .01263 |
| .895 | .030 | .04000 | -1.10000 | .07000 | .04411 | -.23400 | -.21900 | .00750 | 23.17000 | .02383 | .01234 |
| .896 | 2.040 | .04000 | -.06000 | .05000 | .04424 | -.23300 | -.21700 | .00650 | 13.23120 | .02372 | .01223 |
| .896 | 4.260 | .03000 | -1.10000 | .07000 | .04289 | -.23200 | -.21300 | .00710 | 15.21430 | .02363 | .01202 |
| .896 | 6.490 | .05000 | -.09000 | .07000 | .04157 | -.23200 | -.20800 | .00510 | 15.46430 | .02360 | .01175 |
| .895 | 8.690 | .04000 | -.08000 | .06000 | .03808 | -.23600 | -.20900 | .01150 | 15.69530 | .02400 | .01178 |
| .897 | 10.790 | .03000 | -.09000 | .06000 | .03736 | -.24600 | -.22300 | .00900 | 15.89760 | .02504 | .01259 |
| .896 | 11.740 | .02000 | -.08000 | .05000 | .03629 | -.25400 | -.22900 | .02120 | 15.96880 | .02589 | .01291 |
| .896 | 13.470 | .04000 | -.09000 | .07000 | .03624 | -.26800 | -.23900 | .01030 | 16.08340 | .02730 | .01349 |
| .896 | 13.820 | .01000 | -.09000 | .05000 | .03592 | -.27200 | -.24200 | .01600 | 16.10650 | .02769 | .01363 |
| .896 | 14.910 | .00000 | -1.00000 | .04000 | .03517 | -.28200 | -.25100 | .02010 | 16.15220 | .02873 | .01413 |
| .896 | 16.030 | .04000 | -.09000 | .07000 | .03330 | -.29300 | -.26300 | .01790 | 16.18640 | .02983 | .01484 |
| .896 | 17.050 | .00000 | -1.00000 | .04000 | .03206 | -.30000 | -.27500 | .01540 | 16.20390 | .03055 | .01550 |
| .896 | 19.320 | -.01000 | -.00000 | .04000 | .02882 | -.32500 | -.31100 | .01820 | 16.20630 | .03308 | .01756 |
| | GRADIENT | -.00139 | .00598 | -.00369 | .00002 | .00060 | .00162 | .00020 | -.83793 | -.00006 | -.00009 |

RUN NO. 266 / 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|--------|----------|---------|---------|
| .948 | -2.100 | .00000 | .04000 | -.02000 | .06222 | -.27700 | -.25600 | .00640 | 18.76500 | .02818 | .01443 |
| .948 | .250 | .00000 | .01000 | .00000 | .06235 | -.27100 | -.24900 | .00440 | 25.06480 | .02763 | .01405 |
| .947 | 2.270 | .00000 | .02000 | -.01000 | .06154 | -.26700 | -.24500 | .00590 | 12.97540 | .02722 | .01382 |
| .948 | 3.930 | .01000 | .02000 | .00000 | .06147 | -.26300 | -.24300 | .00790 | 15.29040 | .02679 | .01372 |
| .948 | 4.140 | .00000 | .00000 | .00000 | .06082 | -.26500 | -.24400 | .00670 | 15.43320 | .02697 | .01375 |
| .947 | 6.740 | -.01000 | .03000 | -.02000 | .05606 | -.26500 | -.24800 | .00550 | 16.09480 | .02712 | .01400 |
| .948 | 8.930 | .03000 | .04000 | .04000 | .05215 | -.27400 | -.25000 | .00700 | 16.30150 | .02786 | .01411 |
| .948 | 11.070 | .00000 | .01000 | -.01000 | .04854 | -.30100 | -.26700 | .01270 | 16.35850 | .03061 | .01506 |
| .947 | 12.030 | -.03000 | .01000 | -.02000 | .04630 | -.31300 | -.27500 | .01100 | 16.36420 | .03181 | .01549 |
| .948 | 13.220 | .00000 | .00000 | .00000 | .04533 | -.32800 | -.28200 | .00790 | 16.40850 | .03338 | .01591 |
| .948 | 14.120 | -.04000 | .00000 | -.02000 | .04417 | -.34200 | -.29100 | .00790 | 16.42140 | .03475 | .01639 |
| .947 | 15.260 | -.04000 | .00000 | -.02000 | .04182 | -.35500 | -.29900 | .01200 | 16.40680 | .03609 | .01686 |
| .946 | 16.320 | -.04000 | .00000 | -.02000 | .04104 | -.36500 | -.31000 | .01070 | 16.41650 | .03713 | .01748 |
| .947 | 17.350 | -.04000 | .00000 | -.02000 | .03940 | -.37500 | -.32400 | .00970 | 16.41570 | .03829 | .01825 |
| .947 | 19.630 | -.04000 | .00000 | -.02000 | .03466 | -.39900 | -.34800 | .01270 | 16.38870 | .04056 | .01964 |
| | GRADIENT | .00080 | -.00397 | .00253 | -.00020 | .00207 | .00196 | .00024 | -1.01912 | -.00021 | -.00011 |

PARAMETRIC DATA

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK029) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 278/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|--------|---------|---------|---------|--------|----------|---------|---------|
| .978 | -2.190 | .0000 | .0500 | -.0300 | .07030 | -.35100 | -.33200 | .00580 | 19.00080 | .03566 | .01873 |
| .978 | .110 | .0000 | .0500 | -.0300 | .06969 | -.34500 | -.32300 | .00730 | 24.25390 | .03506 | .01820 |
| .977 | 2.140 | -.0100 | .0500 | -.0300 | .06881 | -.33800 | -.31400 | .00880 | 11.97870 | .03435 | .01770 |
| .978 | 4.390 | -.0200 | .0200 | -.0200 | .06631 | -.33700 | -.31400 | .00790 | 15.38450 | .03427 | .01773 |
| .978 | 6.620 | -.0400 | .0300 | -.0400 | .06284 | -.34500 | -.32000 | .00850 | 16.03280 | .03505 | .01806 |
| .978 | 8.810 | -.0400 | .0000 | -.0200 | .05841 | -.36500 | -.33600 | .01520 | 16.28110 | .03716 | .01897 |
| .976 | 10.960 | -.0400 | .0400 | -.0400 | .05491 | -.39100 | -.35000 | .01280 | 16.39680 | .03976 | .01972 |
| .977 | 11.970 | -.0300 | .0200 | -.0300 | .05303 | -.40300 | -.36200 | .01160 | 16.42590 | .04099 | .02039 |
| .977 | 13.080 | -.0400 | .0300 | -.0400 | .05154 | -.41800 | -.37400 | .00980 | 16.46170 | .04252 | .02110 |
| .977 | 14.130 | -.0200 | .0100 | -.0200 | .04987 | -.42900 | -.37900 | .00760 | 16.47640 | .04361 | .02138 |
| .978 | 15.190 | -.0100 | .0300 | -.0200 | .04912 | -.43600 | -.39000 | .01160 | 16.45960 | .04432 | .02137 |
| .977 | 16.290 | -.0400 | .0100 | -.0300 | .04866 | -.44300 | -.38400 | .01100 | 16.47470 | .04508 | .02163 |
| .976 | 17.330 | -.0400 | .0000 | -.0200 | .04684 | -.45400 | -.40200 | .01370 | 16.46830 | .04621 | .02264 |
| .977 | 19.530 | -.0400 | .0200 | -.0300 | .04221 | -.47600 | -.43400 | .01090 | 16.51610 | .04836 | .02445 |
| | GRADIENT | -.00320 | -.00415 | .00138 | -.00059 | .00223 | .00289 | .00036 | -1.02634 | -.00022 | -.00016 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK030) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RV/L = 4.000 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 192/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|----------|--------|--------|
| 1.198 | -2.190 | .00000 | -.03000 | .02000 | .09662 | -.33200 | -.31900 | .01920 | 19.34280 | .03377 | .01800 |
| 1.198 | .060 | -.02000 | .00000 | -.01000 | .09606 | -.32900 | -.31000 | -.01390 | 25.55550 | .03349 | .01750 |
| 1.196 | 2.090 | -.03000 | .00000 | -.01000 | .09495 | -.33300 | -.31100 | -.01330 | 14.74730 | .03394 | .01756 |
| 1.198 | 4.330 | -.02000 | .00000 | -.01000 | .09242 | -.33900 | -.31900 | .01590 | 16.31180 | .03449 | .01799 |
| 1.198 | 6.530 | -.03000 | .00000 | .02000 | .08891 | -.34700 | -.33000 | .01260 | 16.65730 | .03528 | .01863 |
| 1.197 | 8.720 | -.02000 | -.01000 | .00000 | .08407 | -.35800 | -.34300 | .01290 | 16.71010 | .03640 | .01936 |
| 1.197 | 10.880 | -.01000 | .00000 | -.01000 | .07823 | -.36800 | -.35300 | .00970 | 16.68660 | .03740 | .01990 |
| 1.197 | 11.850 | -.02000 | -.01000 | .00000 | .07668 | -.37300 | -.35700 | .01360 | 16.69370 | .03793 | .02013 |
| 1.196 | 13.180 | -.02000 | .03000 | -.01000 | .07502 | -.38200 | -.36700 | .01590 | 16.71200 | .03888 | .02067 |
| 1.199 | 13.970 | -.02000 | .00000 | .00000 | .07386 | -.38700 | -.36800 | .01770 | 16.72620 | .03939 | .02073 |
| 1.198 | 15.040 | -.03000 | -.01000 | .00000 | .07206 | -.39200 | -.36700 | .01650 | 16.71640 | .03989 | .02068 |
| 1.198 | 16.150 | -.03000 | -.03000 | .00000 | .07109 | -.39800 | -.37400 | .02050 | 16.72100 | .04050 | .02109 |
| 1.198 | 17.150 | -.03000 | -.07000 | .01000 | .07021 | -.40400 | -.38300 | .02110 | 16.73520 | .04113 | .02159 |
| 1.196 | 19.400 | -.03000 | -.03000 | -.03000 | .06754 | -.41700 | -.40200 | .01300 | 16.71260 | .04245 | .02267 |
| | GRADIENT | -.00324 | .00420 | -.00420 | -.00064 | -.00115 | -.00004 | -.00050 | -.089381 | .00012 | .00000 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK031) (26 FEB 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 8.000 ELEVON = .000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 93/ 0 RN/L = 8.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|--------|--------|---------|---------|---------|---------|---------|----------|--------|---------|
| .582 | .090 | .0200 | .1100 | -.0400 | .03074 | -.21800 | -.21000 | .01090 | 21.15650 | .02216 | .01187 |
| .598 | 2.380 | .0200 | .1300 | -.05000 | .02681 | -.21800 | -.20900 | .00970 | 12.60740 | .02218 | .01181 |
| .598 | 4.750 | .0300 | .1300 | -.04000 | .01918 | -.21900 | -.20500 | .01040 | 14.86130 | .02225 | .01156 |
| .599 | 6.930 | .0300 | .1300 | -.04000 | .00650 | -.22000 | -.20400 | .00680 | 15.40760 | .02242 | .01152 |
| .599 | 9.210 | .0300 | .1300 | -.04000 | -.00892 | -.22200 | -.20400 | .00620 | 15.67050 | .02258 | .01150 |
| .598 | 11.370 | .0300 | .1000 | -.03000 | -.02441 | -.22400 | -.20700 | .00700 | 15.75860 | .02282 | .01170 |
| .598 | 12.320 | .0200 | .0900 | -.03000 | -.03157 | -.22800 | -.21300 | .00600 | 15.79780 | .02317 | .01200 |
| .598 | 13.470 | .0400 | .0800 | -.01000 | -.03530 | -.23500 | -.22000 | .00620 | 15.87230 | .02388 | .01240 |
| .597 | 14.570 | .0000 | .0700 | -.03000 | -.03602 | -.24300 | -.22600 | .00900 | 15.92870 | .02471 | .01278 |
| .598 | 15.590 | .0500 | .0500 | .00000 | -.03609 | -.25100 | -.23100 | .00780 | 15.95670 | .02552 | .01302 |
| .599 | 16.760 | -.0100 | .0800 | -.05000 | -.03602 | -.26100 | -.23800 | .01030 | 16.00590 | .02658 | .01345 |
| .598 | 17.750 | .0000 | .0800 | -.04000 | -.03538 | -.27100 | -.24700 | .01170 | 16.01300 | .02757 | .01393 |
| .597 | 20.130 | -.0200 | .0700 | -.05000 | -.03607 | -.29800 | -.27900 | .01160 | 16.15780 | .03032 | .01571 |
| | GRADIENT | .00216 | .00427 | .00002 | -.00248 | -.00022 | .00108 | -.00010 | -1.33750 | .00002 | -.00007 |

RUN NO. 56/ 0 RN/L = 7.43 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|--------|--------|---------|---------|---------|---------|---------|----------|---------|---------|
| .900 | .300 | .0000 | .04000 | -.02000 | .04467 | -.23100 | -.22000 | .00790 | 27.62620 | .02355 | .01241 |
| .900 | 2.380 | .0000 | .05000 | -.02000 | .04490 | -.22900 | -.21800 | .00700 | 14.23630 | .02333 | .01229 |
| .901 | 4.920 | .0000 | .05000 | -.03000 | .04326 | -.23000 | -.21400 | .00540 | 15.32380 | .02337 | .01210 |
| .900 | 7.040 | .0000 | .06000 | -.03000 | .04099 | -.23200 | -.21400 | .00970 | 15.58420 | .02359 | .01205 |
| .900 | 9.340 | -.0200 | .02000 | -.02000 | .03750 | -.23600 | -.21700 | .01170 | 15.77440 | .02399 | .01222 |
| .900 | 11.590 | -.0300 | .04000 | -.04000 | .03440 | -.25000 | -.22700 | .01020 | 15.93860 | .02547 | .01279 |
| .900 | 12.550 | -.0400 | .06000 | -.05000 | .03316 | -.26000 | -.23500 | .01140 | 15.99920 | .02649 | .01326 |
| | GRADIENT | .00000 | .00209 | -.00223 | -.00032 | .00019 | .00131 | -.00054 | -2.55043 | -.00004 | -.00007 |

(SUJ032) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 3.500 ELEVON = .000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 44/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CEL RMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|---------|---------|---------|---------|----------|---------|---------|
| .597 | -2.210 | 2.00000 | -2.02000 | 2.01000 | .03051 | -.21000 | -.20700 | .00470 | 17.71570 | .02143 | .01169 |
| .597 | .010 | 1.99000 | -1.99000 | 1.99000 | .03203 | -.21000 | -.20600 | .00530 | 21.73050 | .02137 | .01162 |
| .597 | 2.000 | 1.99000 | -2.03000 | 2.01000 | .02958 | -.21100 | -.20300 | .00450 | 10.16140 | .02147 | .01146 |
| .597 | 4.250 | 1.98000 | -1.98000 | 1.98000 | .02247 | -.21000 | -.19900 | .00500 | 14.65310 | .02136 | .01121 |
| .597 | 6.310 | 1.99000 | -1.97000 | 1.98000 | .01294 | -.20800 | -.19500 | .00390 | 15.30590 | .02122 | .01101 |
| .597 | 8.480 | 1.98000 | -1.96000 | 1.97000 | -.00032 | -.20900 | -.19500 | .00450 | 15.60880 | .02129 | .01103 |
| .596 | 10.490 | 1.96000 | -2.01000 | 1.99000 | -.01388 | -.21200 | -.19700 | .00500 | 15.68710 | .02161 | .01112 |
| .597 | 11.440 | 1.96000 | -2.03000 | 2.00000 | -.02118 | -.21600 | -.20000 | .00450 | 15.75270 | .02197 | .01131 |
| .596 | 12.800 | 1.96000 | -2.03000 | 1.99000 | -.02264 | -.22200 | -.20600 | .00310 | 15.87130 | .02257 | .01161 |
| .597 | 13.520 | 1.95000 | -2.04000 | 2.00000 | -.02111 | -.22500 | -.21100 | .00530 | 15.92030 | .02289 | .01188 |
| .598 | 14.620 | 1.98000 | -2.02000 | 2.00000 | -.02178 | -.23300 | -.21800 | .00780 | 15.98840 | .02371 | .01227 |
| .597 | 15.570 | 1.99000 | -2.03000 | 2.01000 | -.02302 | -.23900 | -.22300 | .00620 | 16.02170 | .02434 | .01261 |
| .597 | 16.560 | 1.99000 | -2.03000 | 2.01000 | -.02234 | -.24700 | -.23400 | .00950 | 16.06320 | .02519 | .01318 |
| .597 | 18.720 | 1.96000 | -2.04000 | 2.00000 | -.02093 | -.27000 | -.25700 | .01800 | 16.17100 | .02745 | .01450 |
| | GRADIENT | -.00283 | .00392 | -.00337 | -.00125 | -.00004 | .00126 | .00001 | -.93670 | -.00001 | -.00007 |

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK033) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 132/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .597 | -2.290 | 1.99000 | -1.91000 | 1.95000 | .02974 | -.20800 | -.20300 | .00530 | 18.01070 | .02118 | .01144 |
| .597 | -.040 | 1.99000 | -1.91000 | 1.95000 | .03169 | -.20800 | -.20200 | .00530 | 20.68100 | .02119 | .01140 |
| .597 | .470 | 1.99000 | -1.91000 | 1.95000 | .03151 | -.20700 | -.20000 | .00420 | 23.63470 | .02104 | .01130 |
| .596 | 1.980 | 1.99000 | -1.91000 | 1.95000 | .02950 | -.20800 | -.19900 | .00490 | 7.04240 | .02119 | .01125 |
| .598 | 4.300 | 1.98000 | -1.91000 | 1.95000 | .02186 | -.20700 | -.19500 | .00590 | 14.31640 | .02113 | .01130 |
| .597 | 6.510 | 1.99000 | -1.91000 | 1.95000 | .01147 | -.20800 | -.19500 | .00900 | 15.16780 | .02119 | .01098 |
| .597 | 8.650 | 1.96000 | -1.94000 | 1.95000 | -.00338 | -.21000 | -.19400 | .01090 | 15.51970 | .02139 | .01093 |
| .597 | 10.650 | 1.96000 | -1.96000 | 1.95000 | -.01611 | -.21200 | -.19600 | .00450 | 15.59790 | .02160 | .01103 |
| .597 | 11.580 | 1.96000 | -1.95000 | 1.96000 | -.02229 | -.21400 | -.19900 | .00510 | 15.69220 | .02181 | .01121 |
| .597 | 12.960 | 1.96000 | -1.95000 | 1.96000 | -.02974 | -.21800 | -.20500 | .00490 | 15.73480 | .02224 | .01155 |
| .597 | 13.680 | 1.96000 | -1.95000 | 1.96000 | -.02921 | -.22700 | -.20900 | .00940 | 15.80530 | .02307 | .01180 |
| .597 | 14.730 | 1.94000 | -1.95000 | 1.95000 | -.02949 | -.23300 | -.21600 | .00770 | 15.83420 | .02373 | .01216 |
| .597 | 15.820 | 1.95000 | -1.95000 | 1.95000 | -.02949 | -.23800 | -.21900 | .01050 | 15.94770 | .02419 | .01235 |
| .596 | 16.800 | 1.96000 | -1.95000 | 1.96000 | -.02809 | -.24600 | -.22800 | .00960 | 16.00780 | .02501 | .01286 |
| .597 | 19.080 | 1.94000 | -1.97000 | 1.96000 | -.02792 | -.27200 | -.25400 | .01460 | 16.12390 | .02768 | .01433 |
| | GRADIENT | -.00144 | .00000 | .00000 | -.00125 | .00013 | .00124 | .00009 | -1.25901 | -.00000 | -.00007 |

RUN NO. 49/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|---------|---------|---------|---------|----------|---------|---------|
| .896 | -2.290 | 1.96000 | -1.91000 | 1.94000 | .04401 | -.23400 | -.22300 | .00860 | 18.20170 | .02378 | .01261 |
| .896 | -.030 | 1.96000 | -1.93000 | 1.95000 | .04540 | -.23200 | -.21900 | .00590 | 22.42390 | .02361 | .01233 |
| .896 | 2.010 | 1.97000 | -1.93000 | 1.95000 | .04523 | -.23000 | -.21700 | .00800 | 12.66400 | .02344 | .01223 |
| .896 | 4.340 | 1.98000 | -1.96000 | 1.97000 | .04369 | -.22900 | -.21300 | .00570 | 15.12610 | .02333 | .01200 |
| .897 | 6.450 | 1.99000 | -1.93000 | 1.96000 | .04201 | -.23000 | -.21100 | .00560 | 15.43070 | .02347 | .01190 |
| .896 | 8.660 | 1.99000 | -1.94000 | 1.97000 | .03978 | -.23600 | -.21000 | .00530 | 15.66470 | .02399 | .01190 |
| .896 | 10.770 | 1.99000 | -1.94000 | 1.97000 | .03904 | -.24500 | -.22700 | .01700 | 15.86340 | .02494 | .01280 |
| .897 | 13.140 | 1.98000 | -1.94000 | 1.96000 | .03812 | -.25200 | -.23200 | .01030 | 15.93440 | .02565 | .01310 |
| .897 | 13.860 | 1.94000 | -1.96000 | 1.96000 | .03781 | -.26400 | -.24200 | .01060 | 16.05120 | .02686 | .01366 |
| .896 | 14.890 | 1.94000 | -1.96000 | 1.95000 | .03692 | -.27100 | -.24700 | .01400 | 16.09560 | .02759 | .01391 |
| .897 | 16.010 | 1.94000 | -1.96000 | 1.95000 | .03599 | -.28000 | -.25600 | .01900 | 16.14500 | .02845 | .01444 |
| .896 | 17.010 | 1.94000 | -1.96000 | 1.95000 | .03471 | -.28800 | -.26600 | .01290 | 16.16900 | .02930 | .01502 |
| .896 | 19.310 | 1.93000 | -1.96000 | 1.95000 | .03338 | -.29200 | -.27700 | .01350 | 16.18820 | .02976 | .01564 |
| .897 | | 1.93000 | -1.95000 | 1.94000 | .02919 | -.32100 | -.31000 | .01580 | 16.16500 | .03268 | .01750 |
| | GRADIENT | -.00319 | -.00690 | .00414 | -.00005 | .00077 | .00146 | -.00017 | -.83878 | -.00007 | -.00009 |

(SUJ033) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AIRLON = 2.000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

| MACH | ALPHA | ELVN-L | ELVN-R | AIRLON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .947 | -2.120 | 2.00000 | -1.95000 | 1.98000 | .06021 | -.28000 | -.26400 | .00510 | 18.85940 | .02852 | .01490 |
| .948 | .210 | 2.01000 | -1.99000 | 2.00000 | .06107 | -.27700 | -.25800 | .00610 | 23.52540 | .02815 | .01457 |
| .948 | 2.220 | 2.01000 | -1.99000 | 2.00000 | .06077 | -.27300 | -.25600 | .00850 | 12.41960 | .02777 | .01443 |
| .948 | 4.460 | 2.01000 | -1.96000 | 1.99000 | .05857 | -.27100 | -.25500 | .00630 | 15.53400 | .02760 | .01441 |
| .947 | 6.710 | 2.00000 | -1.96000 | 1.98000 | .05448 | -.27200 | -.25600 | .00640 | 16.04450 | .02766 | .01445 |
| .949 | 8.920 | 1.99000 | -1.96000 | 1.98000 | .05017 | -.27900 | -.25900 | .01100 | 16.27960 | .02842 | .01461 |
| .949 | 11.080 | 1.97000 | -1.96000 | 1.97000 | .04636 | -.30700 | -.27600 | .00820 | 16.34650 | .03125 | .01559 |
| .947 | 12.010 | 1.97000 | -1.97000 | 1.97000 | .04496 | -.31900 | -.28400 | .00740 | 16.35910 | .03240 | .01603 |
| .948 | 13.340 | 1.96000 | -1.97000 | 1.97000 | .04351 | -.33900 | -.29500 | .00920 | 16.39180 | .03446 | .01663 |
| .948 | 14.190 | 1.96000 | -1.96000 | 1.96000 | .04166 | -.35100 | -.30400 | .01030 | 16.41450 | .03567 | .01715 |
| .947 | 15.250 | 1.96000 | -1.98000 | 1.97000 | .03936 | -.36000 | -.30900 | .00820 | 16.41270 | .03663 | .01740 |
| .948 | 15.380 | 1.96000 | -1.98000 | 1.97000 | .03884 | -.37500 | -.32400 | .00950 | 16.41140 | .03814 | .01828 |
| .947 | 17.380 | 1.96000 | -1.97000 | 1.97000 | .03737 | -.38300 | -.33400 | .01280 | 16.42710 | .03998 | .01885 |
| .947 | 19.640 | 1.96000 | -1.98000 | 1.97000 | .03186 | -.40500 | -.35700 | .01650 | 16.40050 | .04120 | .02016 |
| | GRADIENT | .00140 | -.00146 | .00142 | -.00024 | .00142 | .00134 | .00027 | -.93227 | -.00014 | -.00007 |

RUN NO. 188 / 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AIRLON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .978 | -2.130 | 2.01000 | -1.96000 | 1.99000 | .07101 | -.34700 | -.32700 | .00700 | 19.06620 | .03533 | .01945 |
| .977 | .140 | 2.01000 | -1.98000 | 2.00000 | .07074 | -.34000 | -.31600 | .00500 | 24.34140 | .03456 | .01782 |
| .977 | 2.190 | 2.00000 | -1.98000 | 1.99000 | .06974 | -.33500 | -.31100 | .01080 | 11.75320 | .03413 | .01755 |
| .978 | 4.430 | 1.99000 | -1.93000 | 1.96000 | .06764 | -.33800 | -.31400 | .00750 | 15.43770 | .03441 | .01773 |
| .978 | 6.640 | 1.97000 | -1.96000 | 1.97000 | .06337 | -.34500 | -.32100 | .00860 | 16.03400 | .03505 | .01808 |
| .978 | 8.850 | 1.98000 | -1.96000 | 1.97000 | .05996 | -.36200 | -.33300 | .00510 | 16.27370 | .03680 | .01875 |
| .977 | 10.980 | 1.97000 | -1.95000 | 1.96000 | .05618 | -.38900 | -.35100 | .01630 | 16.40510 | .03957 | .01930 |
| .978 | 11.970 | 1.97000 | -1.98000 | 1.98000 | .05475 | -.40400 | -.36400 | .00860 | 16.43760 | .04105 | .02032 |
| .977 | 13.070 | 1.97000 | -1.97000 | 1.97000 | .05241 | -.41800 | -.37500 | .01080 | 16.44990 | .04247 | .02115 |
| .978 | 14.170 | 1.96000 | -1.96000 | 1.96000 | .05054 | -.43100 | -.38300 | .01140 | 16.44750 | .04384 | .02158 |
| .978 | 15.210 | 1.97000 | -1.96000 | 1.97000 | .04992 | -.43800 | -.38700 | .01200 | 16.44860 | .04453 | .02199 |
| .978 | 16.320 | 1.97000 | -1.98000 | 1.98000 | .05017 | -.44400 | -.39000 | .00870 | 16.47010 | .04512 | .02199 |
| .977 | 17.320 | 1.97000 | -1.98000 | 1.98000 | .04782 | -.45300 | -.40000 | .00760 | 16.47780 | .04609 | .02257 |
| .978 | 19.560 | 1.97000 | -1.99000 | 1.98000 | .04325 | -.47500 | -.43000 | .01460 | 16.52350 | .04833 | .02427 |
| | GRADIENT | -.00321 | .00414 | -.00459 | -.00051 | .00147 | .00203 | .00032 | -1.04694 | -.00015 | -.00011 |

RUN NO. 281 / 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00 / 5.00

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 231

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK033) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 250/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | C'PB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|----------|---------|--------|---------|----------|--------|----------|--------|--------|
| 1.047 | -2.150 | 2.07000 | -2.01000 | 2.04000 | .08492 | -4.0300 | -3.38700 | .00450 | 19.19190 | .04099 | .02184 |
| 1.048 | .120 | 2.07000 | -1.97000 | 2.02000 | .08477 | -4.0000 | -3.38500 | .00660 | 25.41030 | .04066 | .02171 |
| 1.047 | 2.210 | 2.04000 | -1.95000 | 2.00000 | .08626 | -4.0500 | -3.39100 | .00650 | 13.55040 | .04121 | .02205 |
| 1.048 | 4.250 | 2.04000 | -1.98000 | 2.01000 | .08560 | -4.1200 | -3.39900 | .00890 | 15.81080 | .04188 | .02252 |
| 1.048 | 6.700 | 2.07000 | -2.00000 | 2.03000 | .08231 | -4.1900 | -4.0800 | .01080 | 16.34650 | .04266 | .02301 |
| 1.048 | 8.870 | 2.06000 | -1.97000 | 2.01000 | .07717 | -4.3100 | -4.1900 | .00830 | 16.47770 | .04387 | .02361 |
| 1.048 | 11.040 | 2.02000 | -2.00000 | 2.01000 | .07218 | -4.4600 | -4.2800 | .00740 | 16.50120 | .04534 | .02413 |
| 1.048 | 12.020 | 2.02000 | -1.99000 | 2.00000 | .07021 | -4.5300 | -4.3200 | .00550 | 16.53440 | .04603 | .02436 |
| 1.048 | 12.960 | 2.02000 | -1.98000 | 2.00000 | .06803 | -4.5900 | -4.3500 | .00870 | 16.52920 | .04670 | .02453 |
| 1.048 | 14.180 | 2.02000 | -2.01000 | 2.01000 | .06682 | -4.6900 | -4.4400 | .01000 | 16.55050 | .04774 | .02505 |
| 1.047 | 15.230 | 2.03000 | -2.01000 | 2.02000 | .06510 | -4.8000 | -4.5400 | .01480 | 16.54510 | .04886 | .02561 |
| 1.048 | 16.390 | 2.02000 | -1.96000 | 1.99000 | .06423 | -4.9000 | -4.6900 | .01010 | 16.60950 | .04980 | .02645 |
| 1.048 | 17.410 | 2.02000 | -2.01000 | 2.01000 | .06329 | -4.9800 | -4.7800 | .00940 | 16.66330 | .05063 | .02696 |
| 1.047 | 19.660 | 2.03000 | -2.00000 | 2.01000 | .05801 | -5.2300 | -5.0600 | .00660 | 16.63720 | .05318 | .02854 |
| | GRADIENT | -.00562 | .00533 | -.00523 | .00017 | -.00148 | -.00194 | .00062 | -1.01359 | .00015 | .00011 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.000 ELEVON = .000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 198/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|----------|---------|---------|---------|---------|---------|----------|--------|--------|
| 1.197 | -2.110 | 2.02000 | -2.00000 | 2.01000 | .09705 | -.32500 | -.31900 | .01620 | 19.26240 | .03305 | .01798 |
| 1.197 | .150 | 2.00000 | -2.00000 | 2.00000 | .09570 | -.32300 | -.31300 | -.01290 | 27.73890 | .03287 | .01765 |
| 1.197 | 2.140 | 2.01000 | -1.99000 | 2.00000 | .09490 | -.32300 | -.31100 | .01300 | 14.70100 | .03282 | .01753 |
| 1.197 | 4.260 | 2.00000 | -1.99000 | 2.00000 | .09268 | -.33200 | -.32100 | .01330 | 16.27910 | .03379 | .01808 |
| 1.197 | 6.590 | 1.98000 | -2.01000 | 1.99000 | .08879 | -.34100 | -.33300 | .01510 | 16.64260 | .03468 | .01876 |
| 1.198 | 8.780 | 1.97000 | -2.02000 | 1.99000 | .08433 | -.35100 | -.34400 | .01320 | 16.72350 | .03568 | .01941 |
| 1.197 | 10.910 | 1.96000 | -1.99000 | 1.98000 | .07877 | -.36400 | -.35800 | .01140 | 16.71660 | .03700 | .02016 |
| 1.197 | 11.900 | 1.96000 | -2.03000 | 1.99000 | .07698 | -.36800 | -.36100 | .01350 | 16.70930 | .03743 | .02033 |
| 1.197 | 13.250 | 1.97000 | -2.03000 | 2.00000 | .07513 | -.37700 | -.37000 | .01800 | 16.71810 | .03836 | .02087 |
| 1.197 | 14.060 | 1.96000 | -2.01000 | 1.99000 | .07390 | -.38200 | -.37200 | .01990 | 16.71240 | .03888 | .02099 |
| 1.197 | 15.130 | 1.96000 | -2.03000 | 1.99000 | .07255 | -.38900 | -.37300 | .01320 | 16.73070 | .03955 | .02106 |
| 1.198 | 16.240 | 1.96000 | -2.03000 | 1.99000 | .07168 | -.39300 | -.37700 | .01830 | 16.73160 | .04000 | .02126 |
| 1.198 | 17.630 | 1.97000 | -2.02000 | 1.99000 | .07082 | -.39700 | -.38300 | .01650 | 16.73390 | .04035 | .02158 |
| 1.198 | 19.480 | 1.97000 | -1.98000 | 1.98000 | .06778 | -.40900 | -.39900 | .00810 | 16.71630 | .04162 | .02247 |
| | GRADIENT | -.00243 | .00188 | -.00145 | -.00066 | -.00098 | -.00017 | -.00042 | -.99819 | .00010 | .00001 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 233

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK035) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = 10.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 45/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|---------|----------|---------|---------|
| .597 | -2.160 | 10.03000 | 7.91000 | 1.05000 | .03695 | -.22800 | -.22500 | .00470 | 66.67850 | .02325 | .01270 |
| .598 | .020 | 10.02000 | 7.92000 | 1.04000 | .03814 | -.22700 | -.22300 | .00440 | 19.04420 | .02315 | .01260 |
| .597 | 2.010 | 10.01000 | 7.90000 | 1.05000 | .03522 | -.22800 | -.22100 | .00330 | 17.73030 | .02321 | .01246 |
| .597 | 4.260 | 9.93000 | 7.87000 | 1.03000 | .02735 | -.22400 | -.21300 | .00470 | 17.18860 | .02278 | .01203 |
| .597 | 6.340 | 10.02000 | 10.00000 | .01000 | .01809 | -.22400 | -.20800 | .00950 | 17.08960 | .02279 | .01174 |
| .598 | 8.470 | 10.05000 | 10.04000 | .00000 | .00440 | -.22400 | -.20600 | .00390 | 16.93430 | .02284 | .01161 |
| .598 | 10.500 | 10.00000 | 10.00000 | .00000 | -.00726 | -.23100 | -.20900 | .00500 | 16.85020 | .02347 | .01178 |
| .597 | 11.450 | 9.99000 | 10.02000 | -.01000 | -.01412 | -.23000 | -.21000 | .00870 | 16.78920 | .02339 | .01184 |
| .596 | 12.840 | 10.01000 | 10.00000 | .00000 | -.01632 | -.23600 | -.21700 | .00900 | 16.77290 | .02401 | .01222 |
| .597 | 13.510 | 10.00000 | 10.00000 | .00000 | -.01477 | -.24000 | -.22000 | .00870 | 16.77570 | .02446 | .01243 |
| .597 | 14.500 | 10.01000 | 10.00000 | .00000 | -.01343 | -.24700 | -.22900 | .00640 | 16.74900 | .02518 | .01290 |
| .597 | 15.620 | 9.99000 | 10.00000 | .00000 | -.01005 | -.25900 | -.24100 | .00870 | 16.72230 | .02633 | .01360 |
| .598 | 16.620 | 10.00000 | 10.00000 | .00000 | -.00726 | -.27200 | -.25600 | .01420 | 16.72860 | .02772 | .01443 |
| .597 | 18.790 | 9.99000 | 9.99000 | .00000 | -.00841 | -.29200 | -.27700 | .01060 | 16.73570 | .02968 | .01564 |
| | GRADIENT | -.01470 | -.00660 | -.00241 | -.00150 | .00053 | .03180 | -.00002 | -7.05398 | -.00006 | -.00010 |

(SUK036) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BRFF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 126/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|--------|----------|---------|---------|
| .596 | -2.060 | 9.98000 | 9.97000 | .00000 | .03719 | -.22900 | -.22200 | .00570 | 45.18360 | .02327 | .01250 |
| .597 | .070 | 9.96000 | 9.96000 | .00000 | .03773 | -.22800 | -.21900 | .00640 | 19.16740 | .02319 | .01238 |
| .596 | 2.010 | 9.94000 | 9.97000 | -.01000 | .03447 | -.22900 | -.21900 | .00640 | 17.77890 | .02329 | .01233 |
| .597 | 4.410 | 9.94000 | 9.97000 | -.01000 | .02684 | -.22600 | -.21100 | .00530 | 17.22980 | .02300 | .01193 |
| .596 | 6.500 | 9.95000 | 9.97000 | .00000 | .01551 | -.22600 | -.20900 | .00530 | 17.01440 | .02303 | .01178 |
| .596 | 8.650 | 9.94000 | 9.93000 | .02000 | .00283 | -.20400 | -.20500 | .00490 | 16.90730 | .02292 | .01151 |
| .596 | 10.670 | 9.95000 | 9.96000 | -.01000 | -.01032 | -.22800 | -.20500 | .00600 | 16.82310 | .02324 | .01164 |
| .597 | 11.650 | 9.96000 | 9.98000 | .00000 | -.01694 | -.20700 | -.20700 | .00530 | 16.76500 | .02344 | .01167 |
| .597 | 12.770 | 9.95000 | 9.98000 | -.01000 | -.02070 | -.23500 | -.21200 | .00600 | 16.75750 | .02395 | .01198 |
| .596 | 13.700 | 9.96000 | 9.99000 | -.01000 | -.02045 | -.24100 | -.21800 | .00790 | 16.71760 | .02455 | .01232 |
| .597 | 14.810 | 9.94000 | 9.98000 | -.01000 | -.01887 | -.24600 | -.22400 | .00570 | 16.70990 | .02501 | .01264 |
| .596 | 15.900 | 9.94000 | 9.97000 | -.01000 | -.01493 | -.25600 | -.23700 | .00810 | 16.69360 | .02605 | .01335 |
| .537 | 16.880 | 9.93000 | 9.96000 | -.01000 | -.01206 | -.27000 | -.25100 | .00870 | 16.68320 | .02746 | .01415 |
| .597 | 19.110 | 9.93000 | 9.97000 | -.01000 | -.01518 | -.29300 | -.27900 | .00700 | 16.71240 | .02978 | .01572 |
| | GRADIENT | -.00646 | -.00045 | -.00184 | -.00163 | .00039 | .00157 | .00026 | -3.94466 | -.00003 | -.00008 |

RUN NO. 48/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|--------|---------|---------|---------|----------|---------|---------|
| .896 | -2.240 | 10.01000 | 9.98000 | .01000 | .04794 | -.24700 | -.24100 | .00600 | 15.05900 | .02510 | .01357 |
| .896 | .050 | 10.02000 | 10.04000 | .00000 | .04972 | -.24300 | -.23500 | .00660 | 19.28780 | .02471 | .01326 |
| .896 | 2.100 | 10.03000 | 9.95000 | .07000 | .05085 | -.24000 | -.23300 | .00570 | 17.75300 | .02442 | .01316 |
| .897 | 4.430 | 10.00000 | 10.01000 | .00000 | .04983 | -.23900 | -.23200 | .00490 | 17.42580 | .02439 | .01308 |
| .896 | 6.530 | 9.99000 | 10.00000 | .00000 | .04846 | -.24800 | -.23400 | .00510 | 17.30690 | .02523 | .01318 |
| .896 | 8.750 | 10.02000 | 9.99000 | .01000 | .04559 | -.26000 | -.23700 | .00960 | 17.11400 | .02549 | .01340 |
| .896 | 10.850 | 9.99000 | 10.00000 | .00000 | .04563 | -.28000 | -.25500 | .01020 | 17.09930 | .02846 | .01436 |
| .897 | 11.820 | 9.98000 | 10.00000 | .00000 | .04571 | -.29100 | -.26400 | .01190 | 17.03950 | .02958 | .01489 |
| .896 | 13.260 | 9.98000 | 9.99000 | .00000 | .04631 | -.30300 | -.27800 | .00780 | 17.01290 | .03088 | .01566 |
| .896 | 14.990 | 9.99000 | 9.99000 | .00000 | .04668 | -.31000 | -.28400 | .01360 | 17.00960 | .03156 | .01605 |
| .896 | 16.090 | 9.99000 | 9.99000 | .00000 | .04825 | -.31800 | -.29400 | .00940 | 17.02580 | .03231 | .01657 |
| .897 | 17.150 | 10.00000 | 9.99000 | .00000 | .04812 | -.32500 | -.30500 | .01220 | 16.98200 | .03231 | .01727 |
| .897 | 19.350 | 9.99000 | 9.99000 | .00000 | .04694 | -.33200 | -.31900 | .01340 | 16.93270 | .03374 | .01791 |
| .896 | | 9.99000 | 10.00000 | .00000 | .04274 | -.35000 | -.34900 | .02380 | 16.89570 | .03659 | .01969 |
| | GRADIENT | -.00097 | .00032 | -.00012 | .00031 | .00122 | .00131 | -.00019 | .25772 | -.00011 | -.00007 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK036) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =
 ELEVON = 10.000
 BETA = .000
 SPDBRK = 25.000
 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 187/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|---------|----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .948 | -2.100 | 9.89000 | 10.06000 | -.08000 | .05488 | -.32600 | -.29200 | .00470 | 15.63100 | .03313 | .01647 |
| .947 | .190 | 9.88000 | 10.01000 | -.06000 | .06602 | -.31700 | -.28200 | .00560 | 19.56650 | .03229 | .01588 |
| .948 | 2.260 | 9.87000 | 10.02000 | -.07000 | .06626 | -.31400 | -.28200 | .00630 | 17.90370 | .03199 | .01589 |
| .948 | 4.500 | 9.86000 | 10.03000 | -.07000 | .06442 | -.31300 | -.28300 | .00500 | 17.60920 | .03182 | .01597 |
| .948 | 6.740 | 9.87000 | 10.04000 | -.08000 | .06115 | -.31600 | -.28500 | .01160 | 17.49990 | .03212 | .01605 |
| .947 | 8.950 | 9.89000 | 10.02000 | -.06000 | .05691 | -.32100 | -.28300 | .00660 | 17.35350 | .03264 | .01594 |
| .947 | 11.120 | 9.86000 | 10.02000 | -.08000 | .05486 | -.34200 | -.29600 | .01060 | 17.27180 | .03482 | .01670 |
| .947 | 12.070 | 9.87000 | 10.03000 | -.09000 | .05390 | -.34800 | -.30100 | .00790 | 17.23800 | .03544 | .01637 |
| .948 | 13.360 | 9.37000 | 10.02000 | -.07000 | .05371 | -.35300 | -.31600 | .00690 | 17.19450 | .03695 | .01780 |
| .947 | 14.240 | 9.86000 | 10.05000 | -.09000 | .05266 | -.37600 | -.32600 | .00820 | 17.14980 | .03826 | .01841 |
| .947 | 15.240 | 9.86000 | 10.02000 | -.08000 | .05273 | -.38700 | -.33900 | .00880 | 17.11700 | .03942 | .01911 |
| .948 | 16.360 | 9.96000 | 10.01000 | -.07000 | .05243 | -.40500 | -.35400 | .00760 | 17.08500 | .04122 | .01995 |
| .947 | 17.410 | 9.85000 | 9.98000 | -.06000 | .05175 | -.41600 | -.36600 | .00660 | 17.05120 | .04227 | .02064 |
| .947 | 19.700 | 9.89000 | 10.04000 | -.07000 | .04746 | -.45400 | -.40300 | .01930 | 16.89700 | .04619 | .02270 |
| GRADIENT | | -.00182 | -.00374 | .00096 | -.00005 | .00193 | .00125 | .00021 | .20315 | -.00019 | -.00007 |

RUN NO. 290/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|---------|----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .976 | -2.080 | 9.73000 | 10.04000 | -.15000 | .07757 | -.37300 | -.34100 | .00520 | 15.76520 | .03797 | .01924 |
| .978 | .200 | 9.72000 | 10.00000 | -.13000 | .07853 | -.35600 | -.33000 | .00420 | 19.88670 | .03726 | .01861 |
| .976 | 2.280 | 9.69000 | 9.96000 | -.13000 | .07781 | -.36000 | -.32300 | .00480 | 17.75170 | .03566 | .01824 |
| .977 | 4.490 | 9.72000 | 10.06000 | -.17000 | .07585 | -.36500 | -.33300 | .00730 | 17.59170 | .03709 | .01878 |
| .977 | 6.740 | 9.71000 | 10.00000 | -.14000 | .07240 | -.37300 | -.34300 | .00590 | 17.47020 | .03796 | .01932 |
| .977 | 8.940 | 9.72000 | 9.93000 | -.10000 | .06850 | -.38700 | -.35000 | .00830 | 17.38000 | .03936 | .01971 |
| .977 | 11.110 | 9.69000 | 9.93000 | -.11000 | .06537 | -.40600 | -.36300 | .00760 | 17.27430 | .04134 | .02046 |
| .978 | 12.080 | 9.67000 | 9.92000 | -.12000 | .06467 | -.42200 | -.37600 | .00590 | 17.26460 | .04288 | .02117 |
| .978 | 12.980 | 9.67000 | 10.00000 | -.16000 | .06387 | -.42900 | -.38100 | .00670 | 17.22890 | .04368 | .02146 |
| .978 | 14.250 | 9.68000 | 9.94000 | -.13000 | .06339 | -.44200 | -.39100 | .00700 | 17.17600 | .04500 | .02204 |
| .977 | 15.310 | 9.67000 | 10.06000 | -.19000 | .06300 | -.45000 | -.39900 | .00700 | 17.13290 | .04579 | .02249 |
| .977 | 16.440 | 9.67000 | 9.93000 | -.12000 | .06388 | -.41100 | -.41100 | .00730 | 17.05980 | .04676 | .02317 |
| .977 | 17.480 | 9.68000 | 10.06000 | -.18000 | .06252 | -.47100 | -.42400 | .00850 | 17.06990 | .04790 | .02390 |
| .976 | 19.720 | 9.68000 | 9.99000 | -.15000 | .06058 | -.49000 | -.45300 | .00940 | 17.01020 | .04395 | .02556 |
| GRADIENT | | -.00273 | -.00031 | -.00272 | -.00027 | .00138 | .00143 | .00031 | .20558 | -.00015 | -.00008 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK036) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BRREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 248/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|----------|----------|--------|---------|---------|---------|----------|---------|---------|
| 1.048 | -2.140 | 9.93000 | 9.99000 | -0.3000 | .09182 | -4.2700 | -4.1700 | .00740 | 16.51400 | .04339 | .02351 |
| 1.047 | .130 | 9.90000 | 9.98000 | -0.4000 | .09190 | -4.1700 | -4.0500 | .00570 | 18.68810 | .04245 | .02283 |
| 1.047 | 2.180 | 9.88000 | 9.97000 | -0.4000 | .09362 | -4.1900 | -3.9900 | .00590 | 17.82780 | .04251 | .02248 |
| 1.048 | 4.260 | 9.88000 | 10.00000 | -0.6000 | .09358 | -4.2600 | -4.0200 | .00560 | 17.67940 | .04332 | .02268 |
| 1.046 | 6.650 | 9.88000 | 10.00000 | -0.6000 | .09129 | -4.3300 | -4.1400 | .00920 | 17.58690 | .04407 | .02335 |
| 1.047 | 8.880 | 9.88000 | 9.98000 | -0.4000 | .08707 | -4.4300 | -4.2700 | .00450 | 17.44240 | .04506 | .02405 |
| 1.047 | 11.050 | 9.88000 | 10.02000 | -0.7000 | .08221 | -4.5400 | -4.3200 | .00390 | 17.32120 | .04617 | .02436 |
| 1.046 | 12.020 | 9.89000 | 10.03000 | -0.7000 | .08095 | -4.6200 | -4.3800 | .00490 | 17.29080 | .04698 | .02471 |
| 1.047 | 12.960 | 9.98000 | 9.95000 | -0.3000 | .07991 | -4.6600 | -4.4100 | .00790 | 17.24070 | .04743 | .02486 |
| 1.046 | 14.230 | 9.88000 | 9.94000 | -0.3000 | .07955 | -4.7800 | -4.5200 | .01000 | 17.20460 | .04863 | .02546 |
| 1.047 | 15.240 | 9.87000 | 9.97000 | -0.5000 | .07882 | -4.8600 | -4.6000 | .00970 | 17.17740 | .04946 | .02591 |
| 1.047 | 16.390 | 9.87000 | 9.84000 | -0.1000 | .07841 | -4.9800 | -4.7400 | .01130 | 17.18270 | .05068 | .02671 |
| 1.047 | 17.430 | 9.87000 | 10.03000 | -0.8000 | .07700 | -5.0900 | -4.8500 | .00660 | 17.16350 | .05178 | .02732 |
| 1.047 | 19.670 | 9.87000 | 9.93000 | -0.2000 | .07497 | -5.4000 | -5.2200 | .00750 | 17.09340 | .05493 | .02945 |
| | GRADIENT | -0.00805 | .00088 | -0.00423 | .00033 | .00013 | .00243 | -.00025 | .13093 | -.00001 | -.00014 |

RUN NO. 294/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|----------|---------|--------|---------|---------|---------|----------|---------|---------|
| 1.117 | -2.140 | 9.74000 | 9.96000 | -1.1000 | .09713 | -3.9000 | -3.7200 | .00970 | 16.96330 | .03863 | .02100 |
| 1.117 | .180 | 9.73000 | 9.94000 | -1.0000 | .09860 | -3.6900 | -3.5900 | .01650 | 18.72990 | .03757 | .02023 |
| 1.117 | 2.210 | 9.73000 | 9.93000 | -1.3000 | .09936 | -3.6600 | -3.5200 | .01570 | 17.90080 | .03725 | .01985 |
| 1.117 | 4.480 | 9.73000 | 9.90000 | -0.8000 | .09942 | -3.7400 | -3.5700 | .01130 | 17.72700 | .03807 | .02016 |
| 1.117 | 6.710 | 9.73000 | 9.87000 | -0.7000 | .09775 | -3.7900 | -3.6400 | .00710 | 17.62500 | .03661 | .02051 |
| 1.118 | 8.920 | 9.73000 | 9.98000 | -1.2000 | .09334 | -3.8900 | -3.7600 | .00680 | 17.50620 | .03955 | .02123 |
| 1.116 | 11.100 | 9.73000 | 9.94000 | -1.0000 | .08728 | -3.9900 | -3.8400 | .00640 | 17.35640 | .04061 | .02166 |
| 1.117 | 12.070 | 9.72000 | 9.99000 | -1.3000 | .08570 | -4.0500 | -3.8900 | .00680 | 17.30070 | .04119 | .02195 |
| 1.117 | 12.990 | 9.73000 | 9.92000 | -0.9000 | .08437 | -4.1200 | -3.9600 | .00840 | 17.25490 | .04187 | .02232 |
| 1.117 | 14.240 | 9.72000 | 9.92000 | -1.0000 | .08287 | -4.2400 | -4.0400 | .01060 | 17.21550 | .04311 | .02276 |
| 1.118 | 15.290 | 9.72000 | 9.90000 | -0.9000 | .08257 | -4.3500 | -4.1700 | .01360 | 17.20300 | .04426 | .02350 |
| 1.118 | 16.460 | 9.72000 | 10.07000 | -1.7000 | .08217 | -4.4500 | -4.2700 | .00870 | 17.18660 | .04523 | .02407 |
| 1.117 | 17.420 | 9.72000 | 9.79000 | -0.3000 | .08165 | -4.5000 | -4.4100 | .01030 | 17.15850 | .04678 | .02488 |
| 1.117 | 19.720 | 9.72000 | 9.90000 | -0.9000 | .07951 | -4.7900 | -4.6500 | .01250 | 17.08720 | .04874 | .02623 |
| | GRADIENT | -0.00139 | -.00613 | .00285 | .00037 | .00097 | .00238 | -.00019 | .07135 | -.00009 | -.00013 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 237

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK037) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AIRLON =
 GRIT =
 RUDDER =

4.500 ELEVON = 10.000
 .000 BETA = .000
 1.000 SPDBRK = 25.000
 .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 279/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AIRLON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .977 | -2.170 | 9.66000 | 10.12000 | -.22000 | .07690 | -.38200 | -.34700 | .00610 | 15.64360 | .03891 | .01955 |
| .977 | .110 | 9.66000 | 10.05000 | -.19000 | .07832 | -.37400 | -.33300 | .00550 | 19.36840 | .03801 | .01881 |
| .977 | 2.170 | 9.66000 | 10.14000 | -.23000 | .07790 | -.36700 | -.32700 | .00730 | 17.81430 | .03737 | .01842 |
| .978 | 4.410 | 9.67000 | 10.10000 | -.21000 | .07599 | -.37100 | -.33500 | .00760 | 17.60670 | .03773 | .01892 |
| .978 | 6.640 | 9.67000 | 10.10000 | -.21000 | .07253 | -.38000 | -.34600 | .00770 | 17.49340 | .03870 | .01950 |
| .977 | 8.840 | 9.67000 | 10.01000 | -.17000 | .06792 | -.39400 | -.35400 | .00670 | 17.38270 | .04011 | .01995 |
| .977 | 10.990 | 9.69000 | 10.18000 | -.24000 | .06504 | -.41200 | -.36500 | .00680 | 17.29400 | .04196 | .02056 |
| .976 | 12.000 | 9.66000 | 10.02000 | -.18000 | .05396 | -.42600 | -.37500 | .01010 | 17.27490 | .04332 | .02116 |
| .976 | 13.120 | 9.57000 | 10.20000 | -.26000 | .06320 | -.43700 | -.38500 | .00920 | 17.22650 | .04448 | .02171 |
| .978 | 14.160 | 9.65000 | 10.03000 | -.19000 | .06321 | -.44900 | -.39500 | .00860 | 17.19010 | .04568 | .02224 |
| .978 | 15.240 | 9.67000 | 10.05000 | -.19000 | .06263 | -.45900 | -.40200 | .00890 | 17.13360 | .04665 | .02269 |
| .978 | 16.380 | 9.66000 | 10.06000 | -.19000 | .06300 | -.46700 | -.41400 | .00900 | 17.09410 | .04747 | .02335 |
| .978 | 17.370 | 9.66000 | 10.07000 | -.20000 | .06232 | -.47700 | -.42700 | .00780 | 17.07290 | .04853 | .02408 |
| .978 | 19.610 | 9.66000 | 10.06000 | -.19000 | .06048 | -.49900 | -.46100 | .01080 | 17.02440 | .05073 | .02600 |
| | GRADIENT | .00138 | .00112 | -.00034 | -.00014 | .00183 | .00193 | .00029 | .20602 | -.00019 | -.00010 |

(SUK038) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.000 ELEVON = 10.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|----------|---------|--------|---------|---------|--------|----------|--------|---------|
| 1.197 | -2.180 | 4.36000 | 3.08000 | .63000 | .09523 | -.34100 | -.32400 | .01250 | 18.63810 | .03466 | .01825 |
| 1.198 | .060 | 9.93000 | 10.01000 | -.04000 | .10196 | -.34800 | -.33500 | .01570 | 18.97110 | .03541 | .01887 |
| 1.198 | 1.210 | 7.51000 | 5.89000 | .80000 | .09775 | -.33300 | -.31400 | .01710 | 17.21500 | .03383 | .01771 |
| 1.198 | 2.110 | 9.89000 | 10.05000 | -.08000 | .10190 | -.34000 | -.32200 | .01070 | 18.02010 | .03460 | .01818 |
| 1.197 | 4.360 | 9.88000 | 10.05000 | -.08000 | .10053 | -.34400 | -.32300 | .01410 | 17.80100 | .03498 | .01823 |
| 1.197 | 6.540 | 9.89000 | 10.02000 | -.06000 | .09791 | -.35100 | -.33000 | .01200 | 17.66700 | .03570 | .01863 |
| 1.198 | 8.740 | 9.88000 | 10.02000 | -.07000 | .09332 | -.35700 | -.33900 | .01170 | 17.52600 | .03628 | .01910 |
| 1.199 | 10.900 | 9.88000 | 10.00000 | -.06000 | .08942 | -.36300 | -.34800 | .00990 | 17.42800 | .03690 | .01960 |
| 1.197 | 11.840 | 9.38000 | 10.04000 | -.08000 | .08904 | -.36900 | -.35300 | .01430 | 17.37970 | .03750 | .01991 |
| 1.198 | 13.180 | 9.89000 | 10.02000 | -.07000 | .08624 | -.38100 | -.36300 | .00920 | 17.31610 | .03872 | .02046 |
| 1.197 | 14.030 | 9.88000 | 10.02000 | -.07000 | .08526 | -.38700 | -.36800 | .01060 | 17.27810 | .03940 | .02074 |
| 1.198 | 15.060 | 9.89000 | 10.01000 | -.06000 | .08439 | -.39800 | -.37400 | .01440 | 17.24390 | .04044 | .02107 |
| 1.198 | 16.190 | 9.89000 | 10.05000 | -.08000 | .08377 | -.40800 | -.38200 | .01850 | 17.22450 | .04145 | .02156 |
| 1.197 | 17.180 | 9.88000 | 10.03000 | -.07000 | .08305 | -.41600 | -.39200 | .02140 | 17.19240 | .04233 | .02209 |
| 1.196 | 19.400 | 9.88000 | 10.00000 | -.06000 | .08147 | -.43600 | -.41600 | .01300 | 17.13930 | .04440 | .02344 |
| | GRADIENT | .76160 | .95097 | -.09759 | .00073 | -.00003 | .00076 | .00002 | -.15279 | .00000 | -.00004 |

RUN NO. 193/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(SUK039) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AIRLON =
 GRIT =
 RUDDER =

3.500 ELEVON = 10.000
 2.000 BETA = .000
 1.000 SPDRBK = 25.000
 .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 46/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AIRLON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|---------|---------|---------|---------|---------|--------|----------|---------|---------|
| .597 | -2.160 | 12.02000 | 8.01000 | 2.00000 | .03955 | -.23000 | -.22800 | .00470 | 40.63240 | .02343 | .01286 |
| .596 | .000 | 12.02000 | 8.04000 | 1.99000 | .03980 | -.22800 | -.22600 | .00470 | 19.28270 | .02326 | .01275 |
| .597 | 1.990 | 12.01000 | 8.03000 | 1.99000 | .03687 | -.23900 | -.22200 | .00440 | 17.90860 | .02317 | .01253 |
| .596 | 4.230 | 11.97000 | 8.01000 | 1.98000 | .02999 | -.22400 | -.21600 | .00590 | 17.32650 | .02283 | .01218 |
| .597 | 6.340 | 11.96000 | 7.90000 | 2.02000 | .01928 | -.22400 | -.21200 | .01060 | 17.09300 | .02284 | .01199 |
| .595 | 8.450 | 11.90000 | 7.86000 | 2.02000 | .00615 | -.22500 | -.21100 | .00590 | 16.96860 | .02291 | .01191 |
| .596 | 10.480 | 11.91000 | 7.76000 | 2.07000 | -.00688 | -.22900 | -.21100 | .00590 | 16.85340 | .02329 | .01191 |
| .597 | 11.430 | 11.94000 | 7.74000 | 2.10000 | -.01321 | -.23100 | -.21100 | .00540 | 16.79620 | .02347 | .01188 |
| .596 | 12.810 | 11.96000 | 7.56000 | 2.14000 | -.01639 | -.23400 | -.21800 | .00840 | 16.74490 | .02385 | .01228 |
| .596 | 13.510 | 11.81000 | 7.57000 | 2.11000 | -.01460 | -.23700 | -.22100 | .00840 | 16.75060 | .02412 | .01244 |
| .596 | 14.490 | 11.80000 | 7.52000 | 2.13000 | -.01200 | -.24400 | -.22800 | .00540 | 16.74270 | .02493 | .01289 |
| .596 | 15.580 | 11.69000 | 7.65000 | 2.01000 | -.01040 | -.25000 | -.23800 | .00520 | 16.71160 | .02562 | .01345 |
| .597 | 16.570 | 11.56000 | 8.04000 | 1.75000 | -.00705 | -.26500 | -.25200 | .01200 | 16.74250 | .02695 | .01424 |
| .595 | 18.790 | 11.53000 | 7.97000 | 1.77000 | -.00858 | -.28300 | -.27700 | .01150 | 16.72470 | .02880 | .01560 |
| | GRADIENT | -.00761 | -.00049 | -.00285 | -.00150 | -.00086 | .00189 | .00018 | -3.36704 | -.00009 | -.00011 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK040) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 133/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|---------|---------|---------|---------|---------|---------|----------|---------|---------|
| .597 | -2.200 | 12.00000 | 8.00000 | 1.99000 | .03769 | -.22600 | -.22100 | .00750 | 83.07400 | .02323 | .01247 |
| .597 | .030 | 12.00000 | 7.98000 | 2.00000 | .03866 | -.22700 | -.21900 | .00710 | 19.06480 | .02316 | .01238 |
| .597 | 2.080 | 11.99000 | 7.97000 | 2.00000 | .03504 | -.22700 | -.21600 | .00500 | 17.71440 | .02315 | .01219 |
| .597 | 4.300 | 12.00000 | 7.93000 | 2.03000 | .02736 | -.22300 | -.20900 | .00560 | 17.18950 | .02269 | .01179 |
| .597 | 6.610 | 11.97000 | 8.04300 | 1.96000 | .01636 | -.22600 | -.20700 | .00990 | 17.01840 | .02302 | .01168 |
| .597 | 8.580 | 11.97000 | 8.01000 | 1.98000 | .00355 | -.22500 | -.20500 | .00470 | 16.90180 | .02290 | .01156 |
| .597 | 10.680 | 11.96000 | 7.99000 | 1.98000 | -.01044 | -.22700 | -.20600 | .00490 | 16.78410 | .02315 | .01163 |
| .597 | 11.620 | 11.96000 | 7.97000 | 1.99000 | -.01561 | -.22700 | -.20600 | .00640 | 16.75090 | .02314 | .01162 |
| .597 | 12.670 | 11.96000 | 7.99000 | 1.98000 | -.02017 | -.23300 | -.21200 | .00690 | 16.71990 | .02372 | .01197 |
| .597 | 13.760 | 11.96000 | 8.00000 | 1.98000 | -.01882 | -.23900 | -.21700 | .00920 | 16.70390 | .02436 | .01227 |
| .597 | 14.770 | 11.97000 | 7.97000 | 1.99000 | -.01812 | -.24400 | -.22300 | .00810 | 16.68040 | .02480 | .01256 |
| .597 | 15.900 | 11.96000 | 7.97000 | 1.99000 | -.01460 | -.25400 | -.23400 | .00920 | 16.67290 | .02585 | .01320 |
| .597 | 16.860 | 11.96000 | 7.97000 | 1.99000 | -.01081 | -.26700 | -.24700 | .01390 | 16.68370 | .02713 | .01396 |
| .596 | 19.120 | 11.96000 | 7.96000 | 2.00000 | -.01374 | -.29000 | -.27400 | .01290 | 16.69380 | .02954 | .01543 |
| | GRADIENT | -.00044 | -.01023 | .00559 | -.00160 | .00070 | .00181 | -.00029 | -9.28550 | -.00008 | -.00010 |

RUN NO. 47/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|---------|---------|--------|---------|---------|---------|----------|---------|---------|
| .897 | -2.190 | 12.04000 | 8.04000 | 2.00000 | .04795 | -.25700 | -.25000 | .00700 | 14.63150 | .02621 | .01409 |
| .896 | .050 | 12.04000 | 8.03000 | 1.97000 | .04963 | -.25500 | -.24500 | .00610 | 19.23660 | .02591 | .01384 |
| .897 | 2.100 | 12.00000 | 8.08000 | 1.95000 | .05061 | -.25200 | -.24200 | .01050 | 17.78710 | .02564 | .01367 |
| .896 | 4.420 | 11.87000 | 7.97000 | 1.94000 | .04940 | -.25200 | -.24100 | .00580 | 17.46290 | .02567 | .01361 |
| .896 | 6.530 | 11.75000 | 8.32000 | 1.71000 | .04797 | -.25800 | -.24100 | .00670 | 17.28740 | .02627 | .01358 |
| .896 | 8.750 | 11.61000 | 8.19000 | 1.70000 | .04570 | -.26500 | -.24200 | .01130 | 17.18730 | .02697 | .01366 |
| .896 | 10.870 | 11.52000 | 8.11000 | 1.70000 | .04515 | -.28400 | -.25900 | .00700 | 17.02430 | .02887 | .01459 |
| .897 | 11.820 | 11.57000 | 8.12000 | 1.70000 | .04556 | -.29300 | -.26700 | .00750 | 17.01350 | .02961 | .01505 |
| .897 | 13.240 | 11.78000 | 8.09000 | 1.84000 | .04724 | -.31100 | -.28000 | .01160 | 17.37040 | .03163 | .01580 |
| .897 | 13.970 | 12.05000 | 8.11000 | 1.97000 | .04801 | -.31900 | -.28700 | .01120 | 17.04910 | .03242 | .01621 |
| .897 | 14.980 | 12.00000 | 8.11000 | 1.94000 | .04866 | -.32600 | -.29600 | .00970 | 17.02350 | .03319 | .01671 |
| .897 | 16.110 | 12.00000 | 8.10000 | 1.95000 | .04824 | -.33700 | -.30900 | .01340 | 15.99810 | .03433 | .01745 |
| .896 | 17.140 | 12.02000 | 8.11000 | 1.95000 | .04672 | -.34200 | -.32100 | .01450 | 16.94290 | .03480 | .01813 |
| .896 | 19.380 | 12.04000 | 8.11000 | 1.96000 | .04259 | -.36400 | -.35300 | .01750 | 16.78610 | .03699 | .01992 |
| | GRADIENT | -.02528 | -.00978 | -.00913 | .00024 | .00082 | .00137 | -.00002 | .32560 | -.00005 | -.00007 |

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK040) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|---------|---------|---------|---------|---------|--------|----------|---------|---------|
| .947 | -2.140 | 11.95000 | 8.03000 | 1.95000 | .06592 | -.32600 | -.29000 | .00590 | 15.38940 | .03321 | .01637 |
| .948 | .180 | 11.94000 | 8.04000 | 1.95000 | .06751 | -.31900 | -.28300 | .00580 | 19.62110 | .03248 | .01594 |
| .947 | 2.200 | 11.94000 | 8.00000 | 1.97000 | .06680 | -.31200 | -.27600 | .00590 | 17.98960 | .03173 | .01556 |
| .948 | 4.500 | 11.95000 | 8.03000 | 1.96000 | .06590 | -.31100 | -.27700 | .00730 | 17.70710 | .03161 | .01561 |
| .948 | 6.670 | 11.96000 | 8.00000 | 1.98000 | .06219 | -.31800 | -.28400 | .00750 | 17.54720 | .03238 | .01600 |
| .948 | 8.920 | 11.95000 | 8.02000 | 1.97000 | .05802 | -.32300 | -.28500 | .01030 | 17.37030 | .03288 | .01610 |
| .949 | 11.090 | 11.98000 | 8.00000 | 1.98000 | .05570 | -.34300 | -.29900 | .00710 | 17.27360 | .03493 | .01687 |
| .948 | 12.030 | 11.94000 | 8.02000 | 1.96000 | .05460 | -.35300 | -.31100 | .01000 | 17.24050 | .03596 | .01756 |
| .947 | 13.340 | 11.97000 | 7.99000 | 1.98000 | .05391 | -.36500 | -.32500 | .00740 | 17.19170 | .03715 | .01830 |
| .948 | 14.250 | 11.95000 | 8.00000 | 1.97000 | .05355 | -.37700 | -.33700 | .00730 | 17.15250 | .03832 | .01898 |
| .946 | 15.280 | 11.94000 | 7.99000 | 1.97000 | .05416 | -.39300 | -.35300 | .01030 | 17.11240 | .04002 | .01989 |
| .946 | 16.350 | 11.94000 | 7.99000 | 1.97000 | .05295 | -.40800 | -.36400 | .01140 | 17.07480 | .04151 | .02050 |
| .947 | 17.380 | 11.95000 | 7.99000 | 1.98000 | .05239 | -.42200 | -.37600 | .01760 | 17.02970 | .04290 | .02120 |
| .948 | 19.690 | 11.97000 | 8.03000 | 1.97000 | .04859 | -.45600 | -.40700 | .02100 | 16.91660 | .04637 | .02293 |
| | GRADIENT | .00137 | -.00168 | .00084 | -.00003 | .00236 | .00209 | .00020 | .25200 | -.00025 | -.00012 |

RUN NO. 189/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 282/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|---------|---------|---------|---------|---------|---------|----------|---------|---------|
| .977 | -2.120 | 11.99000 | 7.99000 | 1.99000 | .07920 | -.38000 | -.34300 | .00700 | 15.14020 | .03867 | .01935 |
| .977 | .210 | 11.98000 | 7.97000 | 2.00000 | .07958 | -.37300 | -.33100 | .00670 | 19.18410 | .03791 | .01869 |
| .977 | 2.180 | 11.98000 | 7.97000 | 2.00000 | .07915 | -.36900 | -.32600 | .00620 | 17.93470 | .03752 | .01940 |
| .977 | 4.430 | 11.98000 | 7.98000 | 1.99000 | .07713 | -.37200 | -.33200 | .00650 | 17.65830 | .03780 | .01875 |
| .978 | 6.650 | 11.98000 | 7.94000 | 1.99000 | .07398 | -.38100 | -.34300 | .01210 | 17.52930 | .03881 | .01935 |
| .977 | 8.850 | 11.96000 | 7.95000 | 1.99000 | .07056 | -.39400 | -.35400 | .00730 | 17.45380 | .04007 | .01999 |
| .978 | 11.060 | 12.03000 | 8.01000 | 2.00000 | .06774 | -.41600 | -.37100 | .00610 | 17.32500 | .04231 | .02092 |
| .977 | 12.000 | 11.98000 | 7.95000 | 2.01000 | .06676 | -.42700 | -.38100 | .00680 | 17.31950 | .04340 | .02147 |
| .978 | 13.120 | 11.97000 | 7.98000 | 1.99000 | .06647 | -.43900 | -.39300 | .01050 | 17.25810 | .04467 | .02215 |
| .977 | 14.200 | 11.98000 | 7.99000 | 1.99000 | .06552 | -.44900 | -.40400 | .00820 | 17.20690 | .04568 | .02279 |
| .978 | 15.240 | 11.98000 | 7.99000 | 1.99000 | .06588 | -.45000 | -.41300 | .01200 | 17.17950 | .04676 | .02328 |
| .977 | 16.390 | 11.97000 | 7.97000 | 1.99000 | .06625 | -.47200 | -.42000 | .00770 | 17.12760 | .04798 | .02370 |
| .977 | 17.380 | 11.98000 | 7.96000 | 2.01000 | .06515 | -.48100 | -.42900 | .01220 | 17.09490 | .04892 | .02418 |
| .978 | 19.620 | 11.97000 | 7.98000 | 1.99000 | .06398 | -.49600 | -.45200 | .01260 | 17.03770 | .05042 | .02551 |
| | GRADIENT | -.00141 | -.00143 | .00002 | -.00031 | .00130 | .00177 | -.00009 | .30351 | -.00014 | -.00010 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK040) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BRF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 ALLRON = 2.000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 251 / 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00 / 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|----------|---------|--------|---------|---------|--------|----------|---------|---------|
| 1.048 | -2.110 | 12.02000 | 8.01000 | 2.00000 | .09159 | -4.3600 | -4.2000 | .00500 | 16.25680 | .04434 | .02370 |
| 1.047 | .180 | 12.02000 | 8.02000 | 2.00000 | .09207 | -4.2300 | -4.0400 | .00660 | 18.61660 | .04306 | .02280 |
| 1.048 | 2.210 | 12.01000 | 8.00000 | 2.00000 | .09354 | -4.2200 | -3.9500 | .00610 | 17.83760 | .04290 | .02229 |
| 1.046 | 4.300 | 12.01000 | 8.00000 | 2.00000 | .09343 | -4.3000 | -4.0200 | .01100 | 17.67610 | .04378 | .02267 |
| 1.048 | 6.730 | 12.02000 | 8.01000 | 2.00000 | .09133 | -4.4200 | -4.1700 | .00540 | 17.59220 | .04500 | .02353 |
| 1.047 | 8.900 | 12.01000 | 7.99000 | 2.00000 | .08715 | -4.5400 | -4.3400 | .00440 | 17.47090 | .04619 | .02447 |
| 1.047 | 11.090 | 12.04000 | 8.00000 | 2.01000 | .08247 | -4.6600 | -4.4300 | .00530 | 17.34450 | .04741 | .02499 |
| 1.047 | 12.050 | 12.01000 | 7.97000 | 2.01000 | .08120 | -4.7100 | -4.4600 | .00790 | 17.28750 | .04787 | .02513 |
| 1.048 | 12.970 | 12.01000 | 7.97000 | 2.02000 | .08049 | -4.7700 | -4.5000 | .00790 | 17.24690 | .04851 | .02536 |
| 1.048 | 14.260 | 12.01000 | 8.01000 | 1.99000 | .07981 | -4.8600 | -4.5600 | .01050 | 17.20800 | .04944 | .02569 |
| 1.048 | 15.300 | 12.00000 | 8.02000 | 1.99000 | .07934 | -4.9400 | -4.6100 | .00810 | 17.19360 | .05025 | .02601 |
| 1.047 | 16.400 | 12.01000 | 8.01000 | 1.99000 | .07860 | -5.0500 | -4.7900 | .01210 | 17.18650 | .05134 | .02701 |
| 1.047 | 17.430 | 12.01000 | 7.98000 | 2.01000 | .07727 | -5.1500 | -4.8800 | .00910 | 17.15550 | .05238 | .02750 |
| 1.047 | 19.720 | 12.01000 | 7.94000 | 2.03000 | .07466 | -5.4800 | -5.2400 | .00860 | 17.09930 | .05574 | .02953 |
| | GRADIENT | - .00187 | - .00229 | .00000 | .00033 | .00094 | .00301 | .00082 | .17176 | -.00009 | -.00017 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK041) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 197/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000
 AILRON = 2.000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|---------|---------|--------|---------|---------|--------|----------|---------|---------|
| 1.198 | -2.110 | 12.06000 | 7.97000 | 2.04000 | .10128 | -.35700 | -.35000 | .01370 | 16.82500 | .03637 | .01975 |
| 1.198 | .160 | 12.07000 | 7.97000 | 2.05000 | .10124 | -.34700 | -.33700 | .01380 | 18.63930 | .03530 | .01902 |
| 1.197 | 2.160 | 12.05000 | 7.93000 | 2.05000 | .10171 | -.34000 | -.32400 | .01720 | 18.02860 | .03459 | .01827 |
| 1.197 | 4.250 | 12.02000 | 7.97000 | 2.02000 | .10113 | -.33800 | -.32100 | .01340 | 17.85460 | .03442 | .01812 |
| 1.198 | 6.560 | 12.01000 | 7.94000 | 2.03000 | .09848 | -.34100 | -.32400 | .01860 | 17.68770 | .03470 | .01828 |
| 1.197 | 8.830 | 12.01000 | 7.93000 | 2.03000 | .09305 | -.35300 | -.33700 | .01120 | 17.52120 | .03592 | .01903 |
| 1.198 | 10.940 | 12.00000 | 7.97000 | 2.01000 | .08903 | -.36400 | -.34800 | .00980 | 17.42720 | .03708 | .01963 |
| 1.197 | 11.930 | 12.01000 | 7.96000 | 2.02000 | .08824 | -.37100 | -.35900 | .01020 | 17.37770 | .03770 | .02018 |
| 1.197 | 13.230 | 12.00000 | 7.97000 | 2.01000 | .08689 | -.37900 | -.36800 | .01570 | 17.32240 | .03852 | .02078 |
| 1.198 | 14.100 | 12.00000 | 7.97000 | 2.01000 | .08577 | -.38600 | -.37400 | .01020 | 17.28910 | .03924 | .02108 |
| 1.198 | 15.120 | 12.01000 | 7.95000 | 2.03000 | .08473 | -.39400 | -.37500 | .02210 | 17.25850 | .04006 | .02117 |
| 1.198 | 16.220 | 12.01000 | 7.96000 | 2.02000 | .08396 | -.40300 | -.38400 | .02180 | 17.22760 | .04100 | .02163 |
| 1.198 | 17.220 | 12.00000 | 7.95000 | 2.02000 | .08326 | -.41100 | -.39200 | .01500 | 17.20310 | .04178 | .02209 |
| 1.197 | 19.500 | 12.01000 | 7.97000 | 2.02000 | .08152 | -.43200 | -.41500 | .01380 | 17.14540 | .04390 | .02342 |
| | GRADIENT | -.00654 | -.00188 | -.00278 | .00000 | .00305 | .00475 | .00012 | .12382 | -.00031 | -.00027 |

(SUK0*2) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 BETA = 2.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 131/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|--------|---------|--------|---------|---------|---------|---------|----------|--------|---------|
| .596 | -2.200 | .03000 | .00000 | .01000 | .02967 | -.21000 | -.20300 | .00430 | 17.91700 | .02138 | .01148 |
| .597 | .010 | .02000 | -.04000 | .03000 | .03133 | -.21000 | -.20400 | .00380 | 20.68160 | .02140 | .01150 |
| .596 | 1.950 | .05000 | -.01000 | .03000 | .02954 | -.21100 | -.20300 | .00490 | 8.13420 | .02146 | .01146 |
| .597 | 4.310 | .05000 | -.02000 | .04000 | .02188 | -.21000 | -.20300 | .00270 | 14.50480 | .02140 | .01143 |
| .597 | 6.420 | .02000 | -.02000 | .00000 | .01124 | -.21200 | -.19800 | .00380 | 15.22090 | .02163 | .01116 |
| .596 | 8.640 | .01000 | -.07000 | .04000 | -.00275 | -.21300 | -.19700 | .00920 | 15.54810 | .02172 | .01114 |
| .597 | 10.630 | .04000 | .00000 | .01000 | -.01572 | -.21600 | -.20000 | .00380 | 15.68110 | .02196 | .01130 |
| .597 | 11.540 | .04000 | -.03000 | .04000 | -.02211 | -.21800 | -.20300 | .00550 | 15.72540 | .02217 | .01146 |
| .598 | 12.590 | .02000 | -.07000 | .05000 | -.02894 | -.22200 | -.20600 | .00420 | 15.76430 | .02260 | .01162 |
| .597 | 13.680 | .03000 | -.00000 | .01000 | -.02984 | -.22800 | -.21000 | .00550 | 15.84360 | .02320 | .01186 |
| .597 | 14.770 | .05000 | -.02000 | .04000 | -.03016 | -.23400 | -.21400 | .00620 | 15.90650 | .02379 | .01210 |
| .597 | 15.850 | .07000 | -.01000 | .04000 | -.03054 | -.24000 | -.21800 | .00640 | 15.96790 | .02443 | .01229 |
| .597 | 16.860 | .01000 | -.02000 | .02000 | -.02900 | -.25000 | -.22500 | .00730 | 15.99750 | .02541 | .01272 |
| .596 | 19.070 | .02000 | -.02000 | .02000 | -.02990 | -.27300 | -.25500 | .00830 | 16.12620 | .02780 | .01441 |
| | GRADIENT | .00410 | -.00151 | .00422 | -.00119 | -.00004 | .00004 | -.00018 | -1.00282 | .00001 | -.00001 |

RUN NO. 155/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|
| .795 | -2.200 | -.01000 | -.02000 | .00000 | .03216 | -.21700 | -.21600 | .00380 | 17.98230 | .02210 | .01219 |
| .796 | .060 | .00000 | .00000 | .00000 | .03334 | -.21800 | -.21500 | .00310 | 20.77380 | .02224 | .01211 |
| .796 | 2.090 | .00000 | .00000 | .00000 | .03111 | -.21700 | -.21300 | .00480 | 5.72700 | .02209 | .01202 |
| .795 | 4.360 | .00000 | -.03000 | .02000 | .02463 | -.21700 | -.20900 | .00580 | 14.17960 | .02211 | .01178 |
| .796 | 6.540 | .00000 | -.01000 | -.01000 | .01730 | -.21800 | -.20600 | .00230 | 15.24430 | .02218 | .01160 |
| .796 | 8.700 | -.02000 | -.03000 | .00000 | .01312 | -.22000 | -.20800 | .00460 | 15.58690 | .02243 | .01172 |
| .795 | 10.820 | -.02000 | -.04000 | .00000 | .01021 | -.22800 | -.21500 | .00950 | 15.71310 | .02323 | .01212 |
| .796 | 11.750 | -.02000 | -.05000 | .01000 | .00941 | -.23200 | -.21800 | .00860 | 15.77900 | .02365 | .01230 |
| .795 | 12.800 | .00000 | -.04000 | .02000 | .00956 | -.23800 | -.22500 | .00890 | 15.80360 | .02422 | .01267 |
| .795 | 13.920 | -.02000 | -.08000 | .02000 | .01018 | -.24700 | -.23300 | .01680 | 15.92020 | .02509 | .01313 |
| .796 | 14.960 | .00000 | -.04000 | .02000 | .01102 | -.25800 | -.24400 | .01180 | 16.03410 | .02624 | .01375 |
| .796 | 16.050 | .00000 | -.04000 | .00000 | .01046 | -.27000 | -.25600 | .01090 | 16.09420 | .02744 | .01444 |
| .796 | 17.040 | -.04000 | -.04000 | .00000 | .00984 | -.27800 | -.26500 | .01360 | 16.11420 | .02825 | .01498 |
| .796 | 19.310 | -.04000 | -.05000 | .00000 | .00583 | -.30400 | -.29400 | .01540 | 16.13150 | .03090 | .01657 |
| | GRADIENT | .00139 | -.00140 | .00278 | -.00114 | .00004 | .00106 | -.00035 | -1.11757 | -.00001 | -.00006 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK042) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = .000 BETA = 2.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|--------|---------|--------|--------|---------|---------|--------|----------|---------|---------|
| .896 | -2.220 | .0000 | -.0200 | .0100 | .04166 | -.24500 | -.23200 | .00570 | 18.15320 | .02496 | .01308 |
| .896 | .020 | .0000 | -.0500 | .0200 | .04358 | -.24400 | -.22900 | .00550 | 22.51670 | .02488 | .01292 |
| .896 | 2.090 | .0000 | -.0500 | .0200 | .04322 | -.24100 | -.22300 | .00580 | 13.32540 | .02450 | .01259 |
| .896 | 4.270 | .0000 | -.0300 | .0200 | .04193 | -.24000 | -.22100 | .00580 | 15.26440 | .02448 | .01246 |
| .896 | 6.570 | .0000 | -.0100 | .0000 | .04006 | -.23900 | -.21800 | .00530 | 15.48630 | .02436 | .01228 |
| .895 | 8.750 | -.0100 | -.0300 | .0000 | .03741 | -.24300 | -.22000 | .00830 | 15.68520 | .02470 | .01239 |
| .896 | 10.830 | -.0100 | -.0400 | .0100 | .03603 | -.25400 | -.23300 | .01160 | 15.90390 | .02584 | .01315 |
| .896 | 11.790 | -.0400 | -.0200 | -.0100 | .03534 | -.26100 | -.24100 | .01220 | 15.98150 | .02656 | .01358 |
| .896 | 13.510 | -.0300 | -.0400 | .0300 | .03559 | -.27500 | -.25400 | .00870 | 16.10970 | .02799 | .01433 |
| .896 | 13.980 | -.0100 | -.0400 | .0100 | .03489 | -.27900 | -.25900 | .01230 | 16.11640 | .02842 | .01462 |
| .895 | 15.010 | .0000 | -.0400 | .0100 | .03362 | -.29300 | -.26400 | .01200 | 16.14910 | .02830 | .01483 |
| .896 | 16.090 | .0000 | -.0500 | .0200 | .03343 | -.29000 | -.26000 | .01250 | 16.19730 | .02953 | .01555 |
| .895 | 17.160 | -.0200 | -.0600 | .0100 | .03157 | -.30000 | -.28800 | .01210 | 16.22410 | .03050 | .01627 |
| .896 | 19.350 | -.0500 | -.0500 | .0000 | .02694 | -.33100 | -.32100 | .01230 | 16.21440 | .03364 | .01811 |
| | GRADIENT | .00000 | -.00143 | .00140 | .00092 | .00083 | .00181 | .00003 | -.81241 | -.00008 | -.00010 |

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|--------|---------|---------|---------|---------|----------|---------|---------|
| .948 | -2.110 | .0000 | .0000 | .0000 | .05994 | -.28900 | -.27500 | .00610 | 18.75310 | .02946 | .01549 |
| .947 | .190 | .0000 | .0000 | .0000 | .05996 | -.28400 | -.26900 | .00490 | 23.85280 | .02885 | .01515 |
| .948 | 2.240 | .0000 | -.0500 | .0200 | .05921 | -.28200 | -.26800 | .00530 | 12.64260 | .02865 | .01510 |
| .947 | 4.510 | -.0200 | -.0400 | .0000 | .05686 | -.27800 | -.26500 | .00460 | 15.61370 | .02831 | .01494 |
| .948 | 6.770 | -.0200 | -.0300 | .0000 | .05332 | -.27900 | -.26400 | .00510 | 16.07380 | .02844 | .01491 |
| .948 | 8.960 | -.0300 | .0000 | -.0100 | .04879 | -.28500 | -.26700 | .00630 | 16.27730 | .02903 | .01505 |
| .947 | 11.090 | -.0200 | -.0300 | .0000 | .04462 | -.30700 | -.28200 | .00910 | 16.33300 | .03128 | .01589 |
| .948 | 12.050 | -.0300 | -.0200 | .0000 | .04338 | -.32200 | -.29400 | .00870 | 16.36380 | .03275 | .01661 |
| .948 | 13.370 | .0000 | -.0400 | .0100 | .04179 | -.33900 | -.32000 | .00950 | 16.39390 | .03448 | .01705 |
| .947 | 14.250 | -.0400 | -.0200 | -.0100 | .04059 | -.34500 | -.30900 | .00880 | 16.42120 | .03503 | .01735 |
| .947 | 15.290 | -.0400 | -.0300 | .0000 | .04025 | -.35400 | -.32100 | .00970 | 16.44170 | .03604 | .01810 |
| .948 | 16.440 | -.0500 | -.0300 | -.0100 | .03782 | -.37000 | -.34400 | .00930 | 16.43170 | .03767 | .01893 |
| .948 | 17.450 | -.0500 | -.0300 | -.0100 | .03609 | -.38400 | -.34900 | .01020 | 16.42690 | .03907 | .01970 |
| .948 | 19.710 | -.0500 | -.0500 | .0000 | .03177 | -.39800 | -.35900 | .00990 | 16.37990 | .04048 | .02018 |
| | GRADIENT | -.00275 | -.00765 | .00086 | -.00046 | .00160 | .00142 | -.00019 | -.91036 | -.00017 | -.00008 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK042) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = .000 BETA = 2.000
 CRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 280/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|---------|---------|---------|---------|---------|---------|--------|----------|---------|--------|
| .977 | -2.200 | .00000 | .06000 | -.03000 | .07030 | -.34800 | -.33200 | .00600 | 18.93660 | .03543 | .01872 |
| .978 | .080 | .01000 | .01000 | .07043 | .07043 | -.34300 | -.32700 | .00600 | 23.53640 | .03494 | .01842 |
| .978 | 2.160 | .00000 | .02000 | -.01000 | .06819 | -.34000 | -.32200 | .00750 | 12.25350 | .03462 | .01817 |
| .976 | 4.430 | -.04000 | .03000 | .04000 | .06628 | -.34100 | -.32400 | .00720 | 15.50940 | .03476 | .01827 |
| .976 | 6.680 | .01000 | .04000 | -.01000 | .06300 | -.35100 | -.33200 | .00600 | 16.08510 | .03568 | .01873 |
| .976 | 8.890 | -.01000 | .05000 | -.03000 | .05823 | -.36500 | -.34500 | .00530 | 16.32410 | .03754 | .01946 |
| .978 | 11.030 | -.04000 | .04000 | -.04000 | .05521 | -.39000 | -.35900 | .00720 | 16.40880 | .03970 | .02024 |
| .976 | 12.000 | -.02000 | .03000 | -.03000 | .05411 | -.40400 | -.37000 | .00710 | 16.44020 | .04110 | .02088 |
| .976 | 13.120 | .00000 | .03000 | -.02000 | .05122 | -.41700 | -.37900 | .01030 | 16.45350 | .04242 | .02139 |
| .976 | 14.150 | -.04000 | .03000 | -.04000 | .04952 | -.42900 | -.39000 | .00810 | 16.47150 | .04357 | .02196 |
| .977 | 15.200 | -.03000 | .04000 | -.04000 | .04801 | -.43800 | -.39500 | .00690 | 16.47650 | .04450 | .02225 |
| .976 | 16.300 | -.03000 | .01000 | -.02000 | .04741 | -.43700 | -.39400 | .00840 | 16.47520 | .04449 | .02219 |
| .976 | 17.300 | -.04000 | .01000 | -.03000 | .04669 | -.44200 | -.40700 | .01180 | 16.46760 | .04498 | .02296 |
| .977 | 19.580 | -.03000 | .01000 | -.02000 | .04248 | -.46900 | -.43500 | .00780 | 16.48100 | .04767 | .02451 |
| GRADIENT | | -.00549 | -.00369 | -.00180 | -.00065 | .00109 | .00131 | .00023 | -.95652 | -.00011 | -.0007 |

RUN NO. 249/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|---------|---------|---------|--------|---------|---------|--------|----------|--------|--------|
| 1.048 | -2.210 | .02000 | -.01000 | .02000 | .08552 | -.39900 | -.39400 | .00390 | 19.14310 | .04064 | .02219 |
| 1.047 | .110 | .02000 | -.05000 | .04000 | .08556 | -.39800 | -.39400 | .00420 | 24.06420 | .04050 | .02221 |
| 1.047 | 2.180 | .00000 | -.05000 | .02000 | .08690 | -.40200 | -.39600 | .00600 | 13.31660 | .04091 | .02234 |
| 1.046 | 4.270 | -.01000 | .05000 | .01000 | .08619 | -.41200 | -.40800 | .00520 | 15.80570 | .04195 | .02302 |
| 1.046 | 6.640 | -.02000 | .07000 | .02000 | .08305 | -.42200 | -.41900 | .00720 | 16.31340 | .04290 | .02359 |
| 1.047 | 8.960 | -.02000 | .07000 | .02000 | .07806 | -.43400 | -.43000 | .00590 | 15.46750 | .04416 | .02423 |
| 1.047 | 11.020 | -.03000 | .07000 | .01000 | .07269 | -.44700 | -.43700 | .00390 | 15.48810 | .04543 | .02466 |
| 1.048 | 12.000 | -.02000 | .08000 | .02000 | .07066 | -.45300 | -.44200 | .01030 | 16.50080 | .04607 | .02489 |
| 1.047 | 12.950 | -.03000 | .07000 | .01000 | .06899 | -.45900 | -.44500 | .00700 | 16.50230 | .04672 | .02510 |
| 1.047 | 14.130 | -.03000 | .07000 | .01000 | .06782 | -.46700 | -.44900 | .00680 | 16.54030 | .04747 | .02531 |
| 1.047 | 15.240 | -.03000 | .09000 | .02000 | .06627 | -.47500 | -.45900 | .00790 | 16.54620 | .04831 | .02588 |
| 1.047 | 16.370 | -.02000 | .07000 | .02000 | .06459 | -.48700 | -.47500 | .00790 | 16.58250 | .04958 | .02680 |
| 1.048 | 17.390 | -.03000 | .03000 | .00000 | .06294 | -.49700 | -.47400 | .00920 | 16.62090 | .04957 | .02672 |
| 1.047 | 19.680 | -.04000 | .01000 | -.01000 | .05826 | -.50800 | -.50100 | .00600 | 16.61200 | .05166 | .02822 |
| GRADIENT | | -.00507 | -.00570 | -.00222 | .00016 | -.00197 | -.00202 | .00027 | -.94152 | .00020 | .00012 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK043) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000
 AILRON = .000 BETA = 2.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 199/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|----------|--------|--------|
| 1.199 | -2.140 | .03000 | -.04000 | .04000 | .09700 | -.32800 | -.32400 | .01170 | 19.22140 | .03340 | .01825 |
| 1.196 | .070 | .02000 | -.06000 | .04000 | .09621 | -.32700 | -.32100 | .01640 | 24.61290 | .03332 | .01811 |
| 1.198 | 2.140 | .00000 | -.05000 | .03000 | .09521 | -.32900 | -.31900 | .01170 | 14.69610 | .03349 | .01801 |
| 1.197 | 4.240 | .00000 | -.06000 | .03000 | .09300 | -.33600 | -.32700 | .01110 | 16.27540 | .03421 | .01844 |
| 1.197 | 6.550 | .02000 | -.07000 | .05000 | .08900 | -.34700 | -.34000 | .01110 | 16.64120 | .03534 | .01918 |
| 1.198 | 8.810 | .00000 | -.08000 | .04000 | .08466 | -.35800 | -.35200 | .01320 | 16.73640 | .03639 | .01984 |
| 1.197 | 10.950 | .01000 | -.08000 | .05000 | .07906 | -.37000 | -.36300 | .01490 | 16.70330 | .03759 | .02046 |
| 1.197 | 11.930 | .00000 | -.09000 | .04000 | .07752 | -.37400 | -.36700 | .02320 | 16.71130 | .03802 | .02068 |
| 1.197 | 13.280 | .00000 | -.08000 | .04000 | .07506 | -.38200 | -.37400 | .02230 | 16.71300 | .03883 | .02110 |
| 1.197 | 14.050 | .00000 | -.08000 | .04000 | .07425 | -.38800 | -.37900 | .01290 | 16.72840 | .03945 | .02139 |
| 1.197 | 15.110 | .00000 | -.09000 | .04000 | .07287 | -.39000 | -.38000 | .01610 | 16.74650 | .03967 | .02145 |
| 1.198 | 16.280 | .00000 | -.09000 | .05000 | .07165 | -.39300 | -.38300 | .01750 | 16.73240 | .03993 | .02162 |
| 1.197 | 17.240 | .00000 | -.06000 | .03000 | .07108 | -.39600 | -.38700 | .01410 | 16.74120 | .04030 | .02184 |
| 1.197 | 19.500 | .00000 | -.05000 | .03000 | .06746 | -.41200 | -.40400 | .01450 | 16.71030 | .04192 | .02279 |
| | GRADIENT | -.00519 | -.00286 | -.00188 | -.00061 | -.00122 | -.00032 | -.00029 | -.86928 | .00012 | .00002 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUUK045) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 BETA = 2.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDGER = .000 BOFLAP = .000

PARAMETRIC DATA

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .596 | -2.150 | 9.98000 | 10.02000 | -.01000 | .03612 | -.23400 | -.22700 | .00470 | 44.50710 | .02386 | .01281 |
| .596 | .100 | 9.99000 | 9.97000 | .01000 | .03770 | -.23300 | -.22500 | .00360 | 19.31670 | .02372 | .01270 |
| .597 | 2.070 | 9.98000 | 9.99000 | .00000 | .03555 | -.23200 | -.22400 | .00270 | 17.94170 | .02362 | .01264 |
| .597 | 4.410 | 9.97000 | 10.03000 | -.02000 | .02693 | -.22900 | -.21900 | .00600 | 17.28250 | .02336 | .01237 |
| .596 | 6.530 | 10.00000 | 10.00000 | .00000 | .01588 | -.22900 | -.21400 | .00530 | 17.07730 | .02328 | .01208 |
| .597 | 8.600 | 9.99000 | 9.95000 | .02000 | .00351 | -.23000 | -.21200 | .00450 | 16.92950 | .02342 | .01197 |
| .597 | 10.660 | 10.01000 | 10.01000 | .00000 | -.00993 | -.23000 | -.21300 | .00340 | 16.83320 | .02341 | .01201 |
| .597 | 11.620 | 10.02000 | 10.00000 | .01000 | -.01728 | -.23200 | -.21300 | .00450 | 16.79390 | .02358 | .01203 |
| .597 | 12.670 | 9.97000 | 10.00000 | -.01000 | -.02088 | -.23500 | -.21600 | .00640 | 16.75350 | .02392 | .01220 |
| .597 | 13.740 | 9.97000 | 10.00000 | -.01000 | -.01914 | -.24100 | -.22100 | .00720 | 16.74560 | .02449 | .01248 |
| .596 | 14.780 | 9.97000 | 10.00000 | -.01000 | -.01833 | -.24700 | -.22700 | .00810 | 16.72700 | .02516 | .01283 |
| .596 | 15.860 | 10.00000 | 10.00000 | .00000 | -.01615 | -.25400 | -.23400 | .00810 | 16.71240 | .02584 | .01318 |
| .597 | 16.890 | 9.98000 | 10.00000 | .00000 | -.01306 | -.26900 | -.24800 | .00940 | 16.69380 | .02740 | .01401 |
| .597 | 19.120 | 9.97000 | 10.00000 | -.01000 | -.01547 | -.29300 | -.27600 | .00680 | 16.69630 | .02986 | .01559 |
| | GRADIENT | -.00184 | .00232 | -.00186 | -.00138 | .00074 | .00116 | .00015 | -3.8406F | -.00007 | -.00006 |

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|--------|---------|---------|---------|----------|---------|---------|
| .895 | -2.220 | 9.94000 | 10.01000 | -.03000 | .04656 | -.26000 | -.25100 | .00660 | 14.64230 | .02650 | .01415 |
| .896 | .080 | 9.93000 | 10.03000 | -.04000 | .04907 | -.25600 | -.24600 | .00710 | 19.51600 | .02607 | .01388 |
| .896 | 2.110 | 9.95000 | 10.04000 | -.04000 | .04971 | -.25200 | -.24000 | .00580 | 17.82060 | .02569 | .01355 |
| .896 | 4.320 | 9.98000 | 10.03000 | -.02000 | .04886 | -.25100 | -.23700 | .00490 | 17.45510 | .02555 | .01335 |
| .896 | 6.570 | 9.93000 | 10.05000 | -.06000 | .04838 | -.26300 | -.23700 | .00460 | 17.31080 | .02564 | .01337 |
| .896 | 8.780 | 9.93000 | 10.05000 | -.06000 | .04544 | -.26300 | -.24100 | .00470 | 17.13950 | .02679 | .01362 |
| .896 | 10.910 | 9.94000 | 10.05000 | -.05000 | .04411 | -.28200 | -.25800 | .00790 | 17.07660 | .02873 | .01454 |
| .896 | 11.880 | 9.93000 | 10.04000 | -.05000 | .04388 | -.30900 | -.26900 | .00780 | 17.04680 | .02978 | .01519 |
| .895 | 13.540 | 9.93000 | 10.04000 | -.05000 | .04687 | -.30900 | -.29700 | .00790 | 17.04180 | .03148 | .01620 |
| .895 | 14.010 | 9.93000 | 10.04000 | -.05000 | .04685 | -.31400 | -.29200 | .00820 | 17.03220 | .03198 | .01645 |
| .895 | 15.060 | 9.93000 | 10.05000 | -.05000 | .04809 | -.32400 | -.30200 | .00980 | 17.03930 | .03295 | .01701 |
| .896 | 16.160 | 9.93000 | 10.04000 | -.05000 | .04693 | -.34000 | -.31700 | .01470 | 17.00670 | .03454 | .01789 |
| .895 | 17.200 | 9.97000 | 10.04000 | -.03000 | .04576 | -.34000 | -.33000 | .01290 | 16.95280 | .03530 | .01859 |
| .895 | 19.480 | 9.95000 | 10.06000 | -.05000 | .04022 | -.37500 | -.36500 | .01470 | 16.78380 | .03819 | .02056 |
| | GRADIENT | .00641 | .00325 | .00137 | .00035 | .00143 | .00221 | -.00029 | .32390 | -.00015 | -.00013 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK046) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000
 AILRON = .000 BETA = 2.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 194/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|---------|----------|---------|---------|---------|---------|---------|----------|---------|---------|
| 1.197 | -2.210 | 9.92000 | 10.04000 | -.06000 | .10129 | -.36000 | -.34900 | .01130 | 16.95650 | .03658 | .01967 |
| 1.196 | -1.450 | 9.93000 | 10.03000 | -.04000 | .10148 | -.35500 | -.34400 | .01120 | 16.41100 | .03613 | .01941 |
| 1.196 | .060 | 9.90000 | 10.06000 | -.07000 | .10189 | -.34900 | -.33600 | .01470 | 18.94920 | .03554 | .01892 |
| 1.196 | 2.110 | 9.89000 | 10.04000 | -.07000 | .10126 | -.34500 | -.32900 | .01030 | 17.94920 | .03508 | .01895 |
| 1.197 | 4.300 | 9.90000 | 10.09000 | -.09000 | .10080 | -.34500 | -.32900 | .01030 | 17.77600 | .03507 | .01857 |
| 1.198 | 6.530 | 9.89000 | 10.07000 | -.08000 | .09899 | -.35100 | -.33500 | .01480 | 17.66580 | .03567 | .01890 |
| 1.198 | 8.740 | 9.88000 | 10.04000 | -.08000 | .09436 | -.35700 | -.34400 | .01310 | 17.53430 | .03629 | .01937 |
| 1.197 | 10.890 | 9.88000 | 10.00000 | -.06000 | .09069 | -.36700 | -.35600 | .02060 | 17.41670 | .03734 | .02010 |
| 1.198 | 11.860 | 9.88000 | 10.03000 | -.07000 | .08917 | -.37300 | -.36200 | .01550 | 17.37950 | .03792 | .02043 |
| 1.197 | 13.200 | 9.88000 | 10.04000 | -.08000 | .08723 | -.38300 | -.37000 | .01670 | 17.32100 | .03998 | .02089 |
| 1.198 | 14.010 | 9.87000 | 10.02000 | -.07000 | .08671 | -.38800 | -.37400 | .01600 | 17.28360 | .03945 | .02111 |
| 1.197 | 15.040 | 9.88000 | 10.04000 | -.08000 | .08592 | -.39700 | -.38200 | .01510 | 17.26460 | .04037 | .02153 |
| 1.196 | 16.200 | 9.89000 | 10.02000 | -.07000 | .08447 | -.40800 | -.38900 | .01390 | 17.22720 | .04146 | .02193 |
| 1.197 | 17.190 | 9.88000 | 10.05000 | -.09000 | .08392 | -.41800 | -.40100 | .02170 | 17.19390 | .04255 | .02260 |
| 1.196 | 19.460 | 9.88000 | 10.06000 | -.08000 | .08205 | -.44100 | -.42400 | .01290 | 17.13800 | .04487 | .02389 |
| GRADIENT | | -.00463 | .00695 | -.00574 | -.00009 | .00225 | .00314 | -.00024 | .16567 | -.00023 | -.00017 |

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK047) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

4.500 ELEVON = .000
 .000 BETA = -2.000
 1.000 SPDBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 130/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|--------|---------|---------|---------|--------|----------|--------|---------|
| .597 | -2.230 | .06000 | .00000 | .03000 | .02945 | -.20900 | -.20100 | .00490 | 17.85950 | .02128 | .01135 |
| .597 | .070 | .04000 | -.01000 | .03000 | .03105 | -.20900 | -.20200 | .00830 | 20.92570 | .02132 | .01139 |
| .596 | 2.050 | .04000 | -.01000 | .03000 | .02910 | -.20900 | -.20100 | .00790 | 9.92770 | .02132 | .01134 |
| .597 | 4.350 | .04000 | -.02000 | .03000 | .02122 | -.20900 | -.20900 | .00550 | 14.56610 | .02128 | .01131 |
| .596 | 6.440 | .05000 | -.02000 | .04000 | .01073 | -.21100 | -.19800 | .00770 | 15.24610 | .02146 | .01117 |
| .597 | 8.640 | .04000 | -.03000 | .04000 | -.00330 | -.21200 | -.19600 | .00810 | 15.56210 | .02164 | .01106 |
| .597 | 10.660 | .04000 | -.05000 | .05000 | -.01686 | -.21600 | -.19800 | .00470 | 15.68850 | .02203 | .01117 |
| .596 | 11.630 | .04000 | -.01000 | .03000 | -.02395 | -.21700 | -.19300 | .00510 | 15.70790 | .02212 | .01123 |
| .597 | 12.630 | .05000 | -.02000 | .04000 | -.02873 | -.22200 | -.20300 | .00510 | 15.78150 | .02260 | .01146 |
| .597 | 13.720 | .00000 | -.03000 | .03000 | -.03134 | -.23000 | -.20600 | .00700 | 15.85250 | .02343 | .01162 |
| .597 | 14.710 | .01000 | -.03000 | .02000 | -.03246 | -.23900 | -.21100 | .00770 | 15.90730 | .02427 | .01189 |
| .597 | 15.770 | .01000 | -.02000 | .02000 | -.03400 | -.24400 | -.21700 | .00680 | 15.97980 | .02487 | .01226 |
| .596 | 16.830 | .02000 | -.06000 | .04000 | -.03055 | -.25400 | -.22700 | .00790 | 16.03700 | .02587 | .01280 |
| .597 | 19.080 | .01000 | -.04000 | .03000 | -.03018 | -.27800 | -.25800 | .00640 | 16.16400 | .02833 | .01455 |
| | GRADIENT | -.00279 | -.00279 | .00000 | -.00123 | .00000 | .00018 | .00007 | -.92015 | .00000 | -.00001 |

RUN NO. 64/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|--------|---------|--------|--------|---------|---------|---------|----------|---------|---------|
| .895 | -2.190 | .07000 | -.01000 | .04000 | .04067 | -.24200 | -.22300 | .00510 | 18.20020 | .02467 | .01256 |
| .896 | .070 | .07000 | -.01000 | .04000 | .04275 | -.23900 | -.22000 | .00590 | 23.19860 | .02438 | .01239 |
| .896 | 2.100 | .07000 | .00000 | .04000 | .04308 | -.23600 | -.21700 | .00600 | 13.22060 | .02401 | .01227 |
| .896 | 4.190 | .08000 | .00000 | .04000 | .04176 | -.23200 | -.21500 | .00540 | 15.16090 | .02364 | .01216 |
| .896 | 6.580 | .09000 | .01000 | .03000 | .04063 | -.23200 | -.21300 | .00520 | 15.17050 | .02357 | .01202 |
| .896 | 8.740 | .08000 | -.01000 | .05000 | .03739 | -.23600 | -.21500 | .00600 | 15.70020 | .02398 | .01215 |
| .895 | 10.850 | .05000 | -.01000 | .04000 | .03644 | -.21700 | -.22700 | .00790 | 15.88750 | .02519 | .01282 |
| .896 | 11.780 | .04000 | .00000 | .02000 | .03583 | -.25400 | -.23100 | .01530 | 15.93330 | .02583 | .01301 |
| .896 | 13.490 | .06000 | .00000 | .03000 | .03522 | -.27000 | -.24200 | .00940 | 16.07680 | .02745 | .01364 |
| .896 | 14.990 | .06000 | -.01000 | .04000 | .03509 | -.27200 | -.24400 | .01390 | 16.11490 | .02773 | .01376 |
| .896 | 16.060 | .05000 | -.03000 | .05000 | .03391 | -.29500 | -.25500 | .01390 | 16.15040 | .02896 | .01439 |
| .896 | 17.110 | .05000 | -.02000 | .05000 | .03224 | -.29400 | -.26500 | .02170 | 16.17770 | .02994 | .01498 |
| .896 | 19.370 | .04000 | -.02000 | .04000 | .03073 | -.30000 | -.27800 | .01140 | 16.17110 | .03057 | .01566 |
| | GRADIENT | .00140 | .00128 | .00000 | .00018 | .00156 | -.00129 | .002560 | 16.17670 | .03295 | .01747 |
| | | | | | | | | | -.87839 | -.00016 | -.00006 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK048) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 BETA = -2.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 129/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .596 | -2.150 | 10.06000 | 10.04000 | .00000 | .03655 | -.23300 | -.22300 | .00620 | 88.81560 | .02370 | .01258 |
| .596 | .150 | 10.03000 | 10.04000 | .00000 | .03787 | -.23200 | -.22200 | .00990 | 19.07610 | .02361 | .01253 |
| .597 | .590 | 10.07000 | 10.03000 | .01000 | .03699 | -.23500 | -.22300 | .00600 | 18.65630 | .02395 | .01259 |
| .596 | 2.130 | 10.03000 | 10.02000 | .00000 | .03504 | -.23100 | -.22000 | .00840 | 17.76610 | .02351 | .01240 |
| .597 | 4.420 | 10.03000 | 10.07000 | -.02000 | .02737 | -.22800 | -.21400 | .00880 | 17.29410 | .02325 | .01207 |
| .597 | 6.550 | 10.08000 | 10.07000 | .00000 | .01657 | -.22700 | -.20900 | .00710 | 17.05320 | .02311 | .01178 |
| .596 | 8.620 | 10.05000 | 10.03000 | .00000 | .00274 | -.20400 | -.20400 | .00410 | 16.90980 | .02337 | .01153 |
| .597 | 10.720 | 10.04000 | 10.04000 | .00000 | -.01080 | -.23100 | -.20200 | .00510 | 16.81510 | .02349 | .01142 |
| .597 | 11.650 | 10.03000 | 10.03000 | .00000 | -.01770 | -.23400 | -.20500 | .00640 | 16.77170 | .02383 | .01156 |
| .596 | 12.670 | 10.07000 | 10.02000 | .02000 | -.02135 | -.23900 | -.20900 | .00620 | 16.74210 | .02433 | .01181 |
| .596 | 13.770 | 10.03000 | 10.03000 | .00000 | -.02193 | -.24400 | -.21300 | .00490 | 16.72000 | .02479 | .01203 |
| .596 | 14.810 | 10.03000 | 10.03000 | .00000 | -.02052 | -.25100 | -.22000 | .00690 | 16.71310 | .02557 | .01244 |
| .596 | 15.910 | 10.04000 | 10.03000 | .00000 | -.01633 | -.26200 | -.23500 | .00790 | 16.70200 | .02658 | .01324 |
| .597 | 16.900 | 10.03000 | 10.01000 | .00000 | -.01289 | -.27500 | -.25000 | .00660 | 16.70760 | .02802 | .01413 |
| .596 | 19.110 | 10.02000 | 10.03000 | .00000 | -.01515 | -.29800 | -.27900 | .00940 | 16.71730 | .03028 | .01573 |
| GRADIENT | | -.00475 | .00354 | -.00304 | -.00144 | .00081 | .00139 | .00034 | -9.62626 | -.00007 | -.00008 |

RUN NO. 63/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|---------|----------|---------|--------|---------|---------|--------|----------|---------|---------|
| .896 | -2.260 | 9.93000 | 10.05000 | -.05000 | .04595 | -.25400 | -.23300 | .00700 | 14.80020 | .02585 | .01317 |
| .897 | .060 | 9.95000 | 10.05000 | -.04000 | .04841 | -.25100 | -.22900 | .00580 | 19.89010 | .02551 | .01293 |
| .895 | 2.110 | 9.97000 | 10.04000 | -.03000 | .04869 | -.24600 | -.22700 | .00670 | 17.76220 | .02502 | .01281 |
| .896 | 4.270 | 9.97000 | 10.07000 | -.05000 | .04864 | -.24400 | -.22900 | .00680 | 17.47620 | .02483 | .01294 |
| .897 | 6.560 | 9.93000 | 10.07000 | -.06000 | .04714 | -.25100 | -.23000 | .00710 | 17.31400 | .02553 | .01296 |
| .897 | 8.760 | 9.93000 | 10.05000 | -.05000 | .04474 | -.26200 | -.23400 | .00560 | 17.13610 | .02662 | .01323 |
| .896 | 10.870 | 9.96000 | 10.04000 | -.03000 | .04428 | -.28100 | -.24900 | .00850 | 17.05840 | .02859 | .01407 |
| .896 | 11.870 | 9.93000 | 10.03000 | -.04000 | .04280 | -.23300 | -.25800 | .00620 | 17.05110 | .02983 | .01457 |
| .896 | 13.530 | 9.94000 | 10.04000 | -.04000 | .04627 | -.31200 | -.27600 | .01480 | 17.04930 | .03173 | .01557 |
| .896 | 14.000 | 9.93000 | 10.03000 | -.04000 | .04764 | -.31700 | -.28100 | .01420 | 17.06230 | .03224 | .01584 |
| .897 | 15.020 | 9.93000 | 10.04000 | -.05000 | .04722 | -.32800 | -.29100 | .01740 | 17.03390 | .03339 | .01643 |
| .896 | 16.120 | 9.93000 | 10.04000 | -.05000 | .04651 | -.34200 | -.30500 | .00850 | 16.98870 | .03477 | .01717 |
| .896 | 17.150 | 9.94000 | 10.04000 | -.04000 | .04488 | -.35400 | -.31800 | .01420 | 16.95820 | .03600 | .01794 |
| .896 | 19.400 | 9.93000 | 10.07000 | -.06000 | .04184 | -.35900 | -.34700 | .01660 | 16.81320 | .03657 | .01955 |
| GRADIENT | | .00648 | .00230 | -.00049 | .00039 | .00161 | .00066 | .00001 | .28902 | -.00016 | -.00004 |

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 253

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK049) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000
 AILRON = .000 BETA = -2.000
 GRIT = 1.000 SPDGRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 195/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|----------|---------|--------|---------|---------|--------|----------|---------|---------|
| 1.197 | -2.180 | 9.93000 | 10.07000 | -.06000 | .10051 | -.36500 | -.35500 | .01140 | 16.99340 | .03709 | .02001 |
| 1.197 | .120 | 9.92000 | 10.06000 | -.07000 | .10135 | -.35400 | -.34200 | .01490 | 18.96520 | .03605 | .01930 |
| 1.197 | 2.090 | 9.89000 | 10.05000 | -.08000 | .10122 | -.34900 | -.33400 | .01330 | 18.01300 | .03553 | .01883 |
| 1.198 | 4.350 | 9.89000 | 10.07000 | -.08000 | .10058 | -.34800 | -.33000 | .01460 | 17.82460 | .03539 | .01860 |
| 1.197 | 6.540 | 9.89000 | 10.06000 | -.08000 | .09813 | -.35100 | -.33400 | .01390 | 17.68090 | .03570 | .01885 |
| 1.196 | 8.760 | 9.88000 | 10.03000 | -.07000 | .09404 | -.35700 | -.34100 | .01210 | 17.55160 | .03636 | .01925 |
| 1.198 | 10.900 | 9.89000 | 10.06000 | -.08000 | .08993 | -.36200 | -.34600 | .01340 | 17.43100 | .03682 | .01951 |
| 1.197 | 11.900 | 9.88000 | 10.07000 | -.09000 | .08932 | -.37100 | -.35100 | .01460 | 17.39400 | .03772 | .01982 |
| 1.197 | 13.130 | 9.98000 | 10.04000 | -.08000 | .08591 | -.38000 | -.35700 | .01370 | 17.32310 | .03863 | .02014 |
| 1.197 | 14.010 | 9.88000 | 10.01000 | -.06000 | .08509 | -.38700 | -.36300 | .02030 | 17.28750 | .03934 | .02049 |
| 1.197 | 15.040 | 9.88000 | 10.06000 | -.08000 | .08451 | -.39400 | -.37000 | .01780 | 17.25760 | .04009 | .02096 |
| 1.198 | 15.220 | 9.88000 | 10.05000 | -.08000 | .08343 | -.40500 | -.38100 | .01340 | 17.22610 | .04118 | .02147 |
| 1.197 | 17.190 | 9.89000 | 10.04000 | -.06000 | .08265 | -.41700 | -.39400 | .02000 | 17.19740 | .04242 | .02220 |
| 1.192 | 19.470 | 9.88000 | 10.07000 | -.09000 | .08071 | -.44100 | -.42300 | .01640 | 17.14350 | .04483 | .02383 |
| | GRADIENT | -.00689 | -.00044 | -.00323 | .00000 | .00260 | .00395 | .00038 | .07728 | -.00026 | -.00022 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 122/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|-----------|-----------|---------|---------|---------|----------|---------|-----------|--------|--------|
| .597 | -2.440 | -20.02000 | -19.99000 | -0.1000 | .06759 | -18400 | -1.17500 | .00690 | 18.84540 | .01874 | .00990 |
| .597 | -1.130 | -20.03000 | -20.00000 | -0.1000 | .07029 | -18400 | -1.17700 | .00750 | 19.82810 | .01878 | .01001 |
| .597 | 1.860 | -20.05000 | -20.00000 | -0.2000 | .06838 | -18600 | -1.17900 | .00640 | 21.31910 | .01895 | .01013 |
| .596 | 4.150 | -20.04000 | -20.01000 | -0.1000 | .06196 | -18100 | -1.18100 | .00560 | 26.03200 | .01923 | .01023 |
| .597 | 6.240 | -20.05000 | -20.01000 | -0.1000 | .05205 | -19300 | -1.18500 | .00770 | 173.28170 | .01953 | .01043 |
| .597 | 8.420 | -20.04000 | -20.02000 | .00000 | .03891 | -19500 | -1.18900 | .00690 | 4.53980 | .01987 | .01065 |
| .597 | 10.530 | -20.05000 | -20.01000 | -0.1000 | .02614 | -20000 | -1.19400 | .00820 | 10.26170 | .02034 | .01092 |
| .597 | 11.460 | -20.05000 | -20.02000 | -0.1000 | .01913 | -20100 | -1.19500 | .01010 | 11.46200 | .02044 | .01101 |
| .597 | 12.500 | -20.04000 | -20.02000 | .00000 | .01345 | -20000 | -1.19500 | .00660 | 12.20930 | .02042 | .01123 |
| .597 | 13.540 | -20.05000 | -20.03000 | .00000 | .00822 | -20400 | -1.19900 | .00540 | 12.85520 | .02072 | .01118 |
| .596 | 14.580 | -20.06000 | -20.04000 | .00000 | .00460 | -20300 | -1.19800 | .00430 | 13.23840 | .02075 | .01128 |
| .596 | 15.680 | -20.04000 | -20.05000 | .00000 | .00327 | -20600 | -2.00000 | .00298 | 13.60500 | .02098 | .01128 |
| .597 | 16.690 | -20.05000 | -20.05000 | .00000 | .00324 | -20500 | -1.99000 | .00620 | 13.62770 | .02089 | .01125 |
| .597 | 18.880 | -20.04000 | -20.05000 | .00000 | .00265 | -21100 | -2.04000 | .00970 | 14.26230 | .02152 | .01152 |
| | GRADIENT | -.00363 | -.00278 | -.00042 | -.00086 | -.00078 | -.00092 | -.00023 | 1.06122 | .00008 | .00005 |

RN/L = 4.500 ELEVON = -20.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 51/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|-----------|-----------|---------|---------|--------|----------|--------|----------|---------|---------|
| .897 | -2.380 | -19.75000 | -19.97000 | .11000 | .09798 | -23800 | -2.32000 | .00510 | 19.43290 | .02426 | .01307 |
| .896 | -1.110 | -20.01000 | -20.01000 | .00000 | .09446 | -23900 | -2.33000 | .00580 | 20.49930 | .02436 | .01315 |
| .897 | 1.910 | -20.01000 | -20.00000 | .00000 | .08946 | -23800 | -2.32000 | .00810 | 22.55160 | .02426 | .01307 |
| .897 | 4.260 | -20.00000 | -20.01000 | .00000 | .08128 | -23700 | -2.25000 | .00740 | 38.02340 | .02408 | .01272 |
| .896 | 6.370 | -20.01000 | -20.01000 | .00000 | .07580 | -23500 | -2.24000 | .00700 | 3.74320 | .02397 | .01261 |
| .896 | 8.600 | -20.00000 | -20.02000 | .01000 | .06925 | -23700 | -2.25000 | .00640 | 12.13210 | .02411 | .01268 |
| .897 | 10.760 | -20.01000 | -20.00000 | .00000 | .06673 | -24000 | -2.31000 | .00640 | 13.91540 | .02442 | .01301 |
| .896 | 11.710 | -20.00000 | -20.00000 | .00000 | .06717 | -24300 | -2.33000 | .01170 | 14.29780 | .02471 | .01317 |
| .897 | 13.110 | -20.00000 | -20.00000 | .00000 | .06497 | -24500 | -2.34000 | .00900 | 14.81760 | .02490 | .01323 |
| .896 | 13.860 | -20.01000 | -20.01000 | .00000 | .06269 | -24600 | -2.35000 | .00710 | 14.99300 | .02503 | .01329 |
| .896 | 14.910 | -20.02000 | -20.01000 | .00000 | .06159 | -25100 | -2.42000 | .01100 | 15.10950 | .02550 | .01365 |
| .897 | 16.010 | -20.01000 | -20.01000 | .00000 | .06281 | -25700 | -2.50000 | .01160 | 15.15150 | .02619 | .01412 |
| .897 | 17.020 | -20.00000 | -20.00000 | .00000 | .06325 | -25700 | -2.59000 | .01050 | 15.17860 | .02714 | .01462 |
| .896 | 19.280 | -20.01000 | -20.00000 | .00000 | .05839 | -29800 | -2.91000 | .01770 | 15.22110 | .03029 | .01642 |
| | GRADIENT | -.03423 | -.00537 | -.01507 | -.00252 | .00018 | .00101 | .00041 | 2.65046 | -.00003 | -.00005 |

RN/L = 4.500 ELEVON = -20.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 255

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK051) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.000 ELEVON = -20.000
 AILRON = .000 BETA = .000
 CRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 190/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|-----------|-----------|---------|---------|---------|---------|--------|----------|--------|--------|
| 1.197 | -2.170 | -19.98000 | -20.00000 | .01000 | .1423 | -.36600 | -.34000 | .01310 | 19.99350 | .03721 | .01920 |
| 1.197 | .090 | -19.99000 | -20.01000 | .01000 | .13992 | -.37000 | -.35000 | .01800 | 21.36230 | .03763 | .01975 |
| 1.197 | 2.090 | -19.99000 | -20.01000 | .01000 | .13577 | -.36900 | -.35200 | .02720 | 26.34320 | .03749 | .01984 |
| 1.198 | 4.340 | -20.00000 | -20.00000 | .00000 | .13121 | -.37600 | -.36300 | .02380 | 52.360 | .03829 | .02046 |
| 1.198 | 6.530 | -19.95000 | -20.01000 | .02000 | .12408 | -.38700 | -.37500 | .01910 | 12.95900 | .03934 | .02114 |
| 1.198 | 8.750 | -19.99000 | -19.99000 | .00000 | .11660 | -.39900 | -.38900 | .01800 | 14.72790 | .04064 | .02191 |
| 1.197 | 10.850 | -20.00000 | -20.00000 | .00000 | .10955 | -.40100 | -.39000 | .02040 | 15.34930 | .04080 | .02199 |
| 1.197 | 11.810 | -20.01000 | -20.01000 | .00000 | .10587 | -.39500 | -.38000 | .01500 | 15.55080 | .04014 | .02141 |
| 1.197 | 13.140 | -20.00000 | -20.02000 | .01000 | .10202 | -.39600 | -.37700 | .01750 | 15.74940 | .04033 | .02125 |
| 1.197 | 13.970 | -20.00000 | -20.01000 | .00000 | .10051 | -.40200 | -.37800 | .02050 | 15.85950 | .04067 | .02131 |
| 1.198 | 15.030 | -19.99000 | -19.99000 | .00000 | .09751 | -.41100 | -.38500 | .01420 | 15.93900 | .04178 | .02169 |
| 1.197 | 16.140 | -20.00000 | -20.02000 | .01000 | .09336 | -.41800 | -.39600 | .01240 | 16.01840 | .04249 | .02230 |
| 1.197 | 17.160 | -20.00000 | -20.02000 | .01000 | .08990 | -.42100 | -.40400 | .01590 | 16.06380 | .04277 | .02276 |
| 1.198 | 19.410 | -20.00000 | -20.00000 | .00000 | .08289 | -.43600 | -.42200 | .01220 | 16.11390 | .04430 | .02380 |
| | GRADIENT | -.00281 | -.00000 | -.00140 | -.00201 | -.00136 | -.00331 | .00190 | -2.51511 | .00015 | .00018 |

(SUK052) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 AIRLON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 123/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AIRLON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|-----------|-----------|---------|---------|---------|---------|--------|----------|--------|--------|
| .597 | -2.370 | -9.96000 | -9.98000 | .01000 | .04098 | -.18600 | -.18100 | .00450 | 18.73060 | .01894 | .01019 |
| .597 | -.110 | -9.98000 | -10.00000 | .01000 | .04299 | -.18800 | -.18300 | .00340 | 19.83630 | .01914 | .01034 |
| .597 | 1.920 | -9.99000 | -10.00000 | .00000 | .04078 | -.19000 | -.18300 | .00450 | 22.34100 | .01935 | .01031 |
| .597 | 4.220 | -9.99000 | -10.01000 | .00000 | .03380 | -.19200 | -.18100 | .00580 | 61.42120 | .01954 | .01024 |
| .597 | 6.350 | -9.99000 | -10.02000 | .01000 | .02389 | -.19200 | -.17900 | .00640 | 6.34250 | .01957 | .01013 |
| .597 | 8.490 | -10.00000 | -10.01000 | .00000 | .01027 | -.19300 | -.18100 | .00790 | 11.89020 | .01965 | .01023 |
| .596 | 10.600 | -10.00000 | -10.01000 | .00000 | -.00229 | -.19600 | -.18600 | .02000 | 13.22430 | .02000 | .01049 |
| .597 | 11.520 | -10.00000 | -10.01000 | .00000 | -.00935 | -.19700 | -.18700 | .00580 | 13.64690 | .02008 | .01054 |
| .596 | 12.510 | -10.00000 | -10.03000 | .01000 | -.01566 | -.20000 | -.19100 | .00400 | 13.97720 | .02038 | .01077 |
| .597 | 13.560 | -10.00000 | -10.02000 | .00000 | -.01859 | -.20500 | -.19500 | .00400 | 14.29590 | .02083 | .01101 |
| .596 | 14.600 | -10.00000 | -10.03000 | .01000 | -.02085 | -.21000 | -.20100 | .00470 | 14.53960 | .02138 | .01136 |
| .597 | 15.730 | -10.00000 | -10.03000 | .01000 | -.02247 | -.21400 | -.20400 | .00400 | 14.82750 | .02184 | .01151 |
| .597 | 16.730 | -10.01000 | -10.03000 | .00000 | -.02187 | -.22000 | -.20800 | .00580 | 14.96700 | .02238 | .01174 |
| .597 | 18.940 | -10.00000 | -10.03000 | .01000 | -.02113 | -.23500 | -.22100 | .00830 | 15.26660 | .02395 | .01248 |
| GRADIENT | | -.00458 | -.00415 | -.00181 | -.00109 | -.00092 | .00000 | .00023 | 6.03946 | .00009 | .00001 |

RUN NO. 52/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AIRLON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|-----------|-----------|--------|---------|---------|---------|---------|----------|---------|---------|
| .896 | -2.310 | -9.96000 | -10.02000 | .02000 | .06345 | -.22900 | -.22300 | .00550 | 19.27710 | .02327 | .01261 |
| .897 | -.040 | -9.97000 | -10.02000 | .02000 | .06341 | -.22700 | -.22000 | .00490 | 20.96300 | .02312 | .01242 |
| .896 | 1.990 | -9.96000 | -10.04000 | .03000 | .06083 | -.22600 | -.21900 | .00550 | 26.98080 | .02297 | .01238 |
| .897 | 4.320 | -9.98000 | -10.04000 | .03000 | .05746 | -.22700 | -.21500 | .00520 | 4.40000 | .02310 | .01214 |
| .896 | 6.460 | -10.01000 | -10.07000 | .03000 | .05442 | -.22500 | -.21000 | .00430 | 12.58920 | .02395 | .01188 |
| .897 | 8.680 | -10.01000 | -10.05000 | .02000 | .05215 | -.22800 | -.21000 | .00680 | 14.06100 | .02324 | .01185 |
| .897 | 10.790 | -10.02000 | -10.05000 | .01000 | .05215 | -.23100 | -.21600 | .00920 | 14.73660 | .02355 | .01218 |
| .897 | 11.710 | -10.01000 | -10.04000 | .01000 | .05198 | -.23300 | -.21500 | .01190 | 14.95820 | .02371 | .01212 |
| .897 | 13.170 | -10.02000 | -10.05000 | .01000 | .05242 | -.23800 | -.22000 | .00750 | 15.13760 | .02423 | .01243 |
| .897 | 13.880 | -10.02000 | -10.05000 | .01000 | .05196 | -.24200 | -.22500 | .01230 | 15.22560 | .02467 | .01271 |
| .896 | 14.920 | -10.02000 | -10.06000 | .02000 | .05063 | -.25000 | -.23500 | .01160 | 15.33360 | .02543 | .01366 |
| .897 | 16.070 | -10.02000 | -10.05000 | .01000 | .04863 | -.25700 | -.24600 | .01110 | 15.40940 | .02615 | .01386 |
| .896 | 17.040 | -10.02000 | -10.05000 | .01000 | .04717 | -.26600 | -.25500 | .00890 | 15.44770 | .02707 | .01445 |
| .896 | 19.310 | -10.02000 | -10.05000 | .01000 | .04272 | -.29300 | -.29100 | .01910 | 15.47300 | .03047 | .01641 |
| GRADIENT | | -.00234 | -.00350 | .00180 | -.00094 | .00032 | .00115 | -.00002 | -1.81614 | -.00003 | -.00007 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 257

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK052) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 166/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|-----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .947 | -2.170 | -9.93000 | -10.05000 | .06000 | .08309 | -.25700 | -.24400 | .00590 | 19.73720 | .02615 | .01376 |
| .946 | .100 | -9.94000 | -10.05000 | .05000 | .08184 | -.25600 | -.23600 | .00680 | 21.58020 | .02601 | .01334 |
| .946 | .500 | -9.94000 | -10.03000 | .04000 | .08095 | -.25600 | -.23800 | .00570 | 22.05460 | .02608 | .01343 |
| .947 | 2.140 | -9.93000 | -10.02000 | .04000 | .07998 | -.25500 | -.23200 | .00710 | 28.38320 | .02591 | .01308 |
| .946 | 4.430 | -9.96000 | -10.05000 | .04000 | .07735 | -.25000 | -.22500 | .00820 | 4.38570 | .02544 | .01269 |
| .947 | 6.680 | -9.95000 | -10.05000 | .05000 | .07452 | -.25000 | -.22700 | .00870 | 12.86830 | .02540 | .01280 |
| .946 | 8.870 | -9.98000 | -10.05000 | .03000 | .06993 | -.25100 | -.23000 | .00760 | 14.64760 | .02560 | .01299 |
| .946 | 10.990 | -9.97000 | -10.05000 | .04000 | .06468 | -.26100 | -.24000 | .01030 | 15.30350 | .02655 | .01352 |
| .947 | 11.970 | -9.97000 | -10.04000 | .03000 | .06290 | -.27100 | -.25200 | .01000 | 15.47340 | .02755 | .01421 |
| .946 | 13.270 | -9.98000 | -10.04000 | .03000 | .06018 | -.28000 | -.26400 | .01080 | 15.64270 | .02848 | .01486 |
| .947 | 14.140 | -9.98000 | -10.04000 | .03000 | .05834 | -.28900 | -.27300 | .01150 | 15.70840 | .02944 | .01541 |
| .947 | 15.150 | -9.97000 | -10.04000 | .03000 | .05658 | -.30200 | -.28600 | .00790 | 15.77100 | .03078 | .01612 |
| .946 | 16.310 | -9.99000 | -10.05000 | .03000 | .05235 | -.31900 | -.30000 | .01470 | 15.78890 | .03248 | .01694 |
| .947 | 17.280 | -9.99000 | -10.05000 | .03000 | .04939 | -.34000 | -.31200 | .01120 | 15.85360 | .03460 | .01762 |
| .946 | 19.570 | -9.97000 | -10.05000 | .04000 | .04184 | -.37400 | -.34100 | .01510 | 15.88640 | .03808 | .01922 |
| | GRADIENT | -.00358 | .00100 | -.00300 | -.00087 | .00103 | .00284 | .00035 | -1.88706 | -.00011 | -.00016 |

RUN NO. 277/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|-----------|-----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .979 | -2.190 | -9.95000 | -10.02000 | .03000 | .09456 | -.30600 | -.30400 | .00440 | 19.81510 | .03117 | .01716 |
| .978 | .110 | -9.97000 | -10.01000 | .01000 | .09258 | -.29700 | -.29300 | .00500 | 21.80130 | .03025 | .01655 |
| .976 | .350 | -10.04000 | -9.86000 | -.08000 | .09042 | -.30700 | -.29800 | .00850 | 22.16020 | .03123 | .01679 |
| .976 | 2.150 | -9.99000 | -10.01000 | .00000 | .09017 | -.29000 | -.28400 | .00700 | 29.13950 | .02955 | .01602 |
| .977 | 4.500 | -10.08000 | -9.92000 | -.07000 | .08635 | -.30300 | -.28800 | .00730 | 6.25290 | .03080 | .01624 |
| .977 | 6.720 | -10.08000 | -9.95000 | -.06000 | .08249 | -.30900 | -.29500 | .00740 | 13.03860 | .03142 | .01662 |
| .976 | 8.770 | -10.07000 | -9.94000 | -.05000 | .07715 | -.32200 | -.30400 | .00950 | 14.71420 | .03275 | .01717 |
| .979 | 11.000 | -10.08000 | -9.98000 | -.05000 | .07232 | -.35100 | -.33000 | .00650 | 15.35250 | .03574 | .01859 |
| .976 | 11.960 | -10.06000 | -9.95000 | -.05000 | .06857 | -.35900 | -.33700 | .00890 | 15.55000 | .03651 | .01900 |
| .979 | 13.080 | -10.08000 | -9.95000 | -.05000 | .06557 | -.38500 | -.36200 | .01100 | 15.70510 | .03916 | .02042 |
| .976 | 14.140 | -10.08000 | -9.97000 | -.05000 | .06345 | -.39400 | -.37100 | .00970 | 15.79730 | .04013 | .02092 |
| .977 | 15.180 | -10.08000 | -9.98000 | -.05000 | .06025 | -.41400 | -.38500 | .01280 | 15.86260 | .04211 | .02172 |
| .978 | 16.310 | -10.08000 | -9.97000 | -.05000 | .05721 | -.42700 | -.39500 | .01020 | 15.69560 | .04345 | .02265 |
| .976 | 17.300 | -10.08000 | -9.96000 | -.05000 | .05278 | -.43600 | -.40200 | .01270 | 15.64880 | .04458 | .02264 |
| .976 | 19.550 | -10.08000 | -9.97000 | -.05000 | .04533 | -.47300 | -.42700 | .01280 | 16.04510 | .04812 | .02408 |
| | GRADIENT | -.01719 | .01014 | -.01199 | -.00119 | .00088 | .00265 | .00040 | -1.60355 | -.00010 | -.00015 |

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK052) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

REFERENCE DATA

MACH = 1.047
 SREF = 2690.0000 SQ.FT.
 LREF = 474.8000 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0150
 XMRP = 1076.7000 IN. X0
 YMRP = .0000 IN. Y0
 ZMRP = 375.0000 IN. Z0
 RN/L = 4.500
 ELEVON = -10.000
 BETA = .000
 SPDBRK = 25.000
 BDFLAP = .000

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|-----------|-----------|---------|---------|---------|--------|----------|--------|--------|
| 1.047 | -2.240 | -9.96000 | -10.05000 | .04000 | .10578 | -.38500 | .00590 | 19.85840 | .04027 | .02167 |
| 1.047 | .110 | -9.98000 | -10.02000 | .01000 | .10388 | -.39200 | .00550 | 22.19410 | .03987 | .02169 |
| 1.047 | 2.180 | -9.98000 | -10.03000 | .02000 | .10465 | -.38600 | .01000 | 41.09560 | .03983 | .02178 |
| 1.047 | 4.260 | -9.98000 | -10.05000 | .03000 | .10305 | -.39300 | .01080 | 9.46660 | .04048 | .02217 |
| 1.047 | 6.650 | -9.99000 | -10.04000 | .02000 | .09898 | -.40500 | .00510 | 14.16440 | .04160 | .02285 |
| 1.048 | 8.870 | -10.01000 | -10.03000 | .00000 | .09222 | -.42100 | .00750 | 15.30880 | .04299 | .02374 |
| 1.047 | 11.050 | -10.02000 | -10.04000 | .01000 | .08548 | -.43800 | .00610 | 15.70960 | .04460 | .02468 |
| 1.048 | 12.030 | -10.01000 | -10.04000 | .01000 | .08249 | -.44800 | .00840 | 15.81210 | .04573 | .02525 |
| 1.048 | 12.900 | -10.01000 | -10.04000 | .01000 | .08059 | -.45000 | .00900 | 15.91200 | .04674 | .02581 |
| 1.047 | 14.150 | -10.01000 | -10.04000 | .00000 | .07746 | -.46700 | .00720 | 16.00500 | .04755 | .02614 |
| 1.048 | 15.210 | -10.02000 | -10.05000 | .00000 | .07580 | -.46900 | .01100 | 16.00500 | .04805 | .02644 |
| 1.047 | 16.320 | -10.02000 | -10.04000 | .00000 | .07184 | -.49600 | .01030 | 16.12770 | .04946 | .02726 |
| 1.047 | 17.400 | -9.99000 | -10.05000 | .03000 | .06923 | -.48800 | .01140 | 16.21850 | .05007 | .02749 |
| 1.047 | 19.660 | -10.02000 | -10.01000 | .00000 | .05119 | -.50400 | .00870 | 16.27220 | .05186 | .02839 |
| 1.047 | GRADIENT | -.00285 | -.00050 | -.00107 | -.00035 | -.00128 | .00093 | -.51180 | .00002 | .00007 |

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|-----------|-----------|---------|---------|---------|--------|----------|--------|--------|
| 1.118 | -2.150 | -9.95000 | -10.04000 | .04000 | .11099 | -.34700 | .00810 | 19.97010 | .03733 | .01957 |
| 1.117 | .150 | -9.98000 | -10.04000 | .03000 | .10953 | -.35600 | .01350 | 22.40410 | .03725 | .01976 |
| 1.118 | 2.220 | -9.98000 | -10.01000 | .01000 | .10883 | -.35800 | .01570 | 79.56990 | .03748 | .01994 |
| 1.117 | 4.480 | -9.99000 | -10.03000 | .01000 | .10618 | -.36300 | .01350 | 12.33820 | .03341 | .02048 |
| 1.118 | 6.710 | -9.99000 | -10.02000 | .01000 | .10152 | -.37200 | .01240 | 14.86440 | .03927 | .02099 |
| 1.117 | 8.890 | -10.01000 | -10.02000 | .00000 | .09538 | -.38500 | .01390 | 15.63330 | .04010 | .02173 |
| 1.117 | 11.050 | -10.01000 | -10.04000 | .01000 | .08846 | -.40100 | .01720 | 15.89400 | .04122 | .02260 |
| 1.117 | 12.070 | -10.00000 | -10.06000 | .03000 | .08509 | -.41100 | .01580 | 15.96320 | .04209 | .02317 |
| 1.117 | 12.950 | -10.01000 | -10.04000 | .01000 | .08269 | -.41600 | .01630 | 16.03370 | .04247 | .02343 |
| 1.117 | 14.210 | -10.00000 | -10.05000 | .02000 | .07774 | -.42500 | .01510 | 16.08470 | .04327 | .02398 |
| 1.117 | 15.260 | -10.00000 | -10.05000 | .02000 | .07498 | -.43300 | .01090 | 16.16690 | .04433 | .02442 |
| 1.118 | 16.430 | -10.00000 | -10.04000 | .02000 | .07229 | -.43800 | .01860 | 16.23930 | .04504 | .02472 |
| 1.118 | 17.410 | -9.99000 | -10.05000 | .03000 | .06900 | -.44500 | .01310 | 16.29400 | .04568 | .02509 |
| 1.118 | 19.630 | -10.00000 | -10.01000 | .00000 | .06594 | -.46700 | .00800 | 16.28290 | .04750 | .02609 |
| 1.117 | GRADIENT | -.00551 | .00267 | -.00499 | -.00069 | -.00237 | .00084 | 1.43390 | .00016 | .00013 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK053) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 191/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|-----------|---------|---------|---------|---------|--------|----------|--------|--------|
| 1.197 | -2.160 | -9.89000 | -10.04000 | .07000 | .11380 | -35000 | -32800 | .01180 | 19.81180 | .03562 | .01849 |
| 1.198 | .090 | -9.89000 | -10.03000 | .06000 | .11215 | -34700 | -32500 | .01570 | 22.01050 | .03527 | .01832 |
| 1.198 | 2.160 | -9.90000 | -10.04000 | .06000 | .10883 | -34900 | -32900 | .01660 | .00000 | .03551 | .01853 |
| 1.198 | 4.380 | -9.92000 | -10.04000 | .05000 | .10539 | -35700 | -33600 | .01440 | 13.40530 | .03630 | .01894 |
| 1.198 | 6.550 | -9.93000 | -10.05000 | .06000 | .10023 | -36100 | -34000 | .01630 | 15.35170 | .03668 | .01915 |
| 1.197 | 8.740 | -9.92000 | -10.06000 | .07000 | .09454 | -36500 | -34700 | .01220 | 15.88590 | .03712 | .01959 |
| 1.198 | 10.920 | -9.93000 | -10.05000 | .06000 | .08849 | -37100 | -35900 | .01290 | 16.07040 | .03779 | .02025 |
| 1.197 | 11.840 | -9.92000 | -10.07000 | .07000 | .08567 | -37800 | -37100 | .01090 | 16.13950 | .03946 | .02091 |
| 1.197 | 13.210 | -9.93000 | -10.05000 | .06000 | .08223 | -39300 | -38900 | .01190 | 16.21240 | .04002 | .02191 |
| 1.198 | 14.010 | -9.92000 | -10.06000 | .07000 | .08103 | -39800 | -39300 | .01630 | 16.27140 | .04046 | .02214 |
| 1.198 | 15.050 | -9.93000 | -10.07000 | .07000 | .07899 | -40400 | -40000 | .01630 | 16.30240 | .04112 | .02256 |
| 1.198 | 16.190 | -9.92000 | -10.04000 | .06000 | .07560 | -40800 | -40300 | .01160 | 16.34160 | .04153 | .02275 |
| 1.199 | 17.190 | -9.92000 | -10.07000 | .07000 | .07300 | -41400 | -40700 | .01060 | 16.36280 | .04209 | .02293 |
| 1.198 | 19.430 | -9.91000 | -10.09000 | .09000 | .06725 | -42600 | -41700 | .01120 | 16.39880 | .04337 | .02352 |
| | GRADIENT | -.00460 | -.00044 | -.00278 | -.00131 | -.00106 | -.00128 | .00040 | -1.86218 | .00010 | .00007 |

(SUK054) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -5.000
 AIRLON = .000 BETA = .000
 GRIT = 1.000 SPDGRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 124/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AIRLON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|----------|---------|---------|---------|---------|---------|----------|--------|---------|
| .597 | -2.270 | -4.98000 | -5.00000 | .00000 | .03269 | -1.9600 | -1.9100 | .00550 | 18.49110 | .01998 | .01076 |
| .597 | -.030 | -4.99300 | -5.02000 | .01000 | .03490 | -1.9600 | -1.9000 | .00550 | 20.01600 | .01995 | .01071 |
| .596 | 2.000 | -5.01000 | -5.02000 | .00000 | .03265 | -1.9900 | -1.9100 | .00470 | 27.30990 | .02026 | .01077 |
| .597 | 4.270 | -4.99000 | -5.02000 | .01000 | .02545 | -1.9800 | -1.8600 | .00470 | 6.46710 | .02013 | .01052 |
| .597 | 6.350 | -4.98000 | -5.02000 | .01000 | .01568 | -2.0000 | -1.8500 | .00850 | 12.50900 | .02035 | .01047 |
| .596 | 8.580 | -5.00000 | -5.05000 | .02000 | .00220 | -2.0200 | -1.8700 | .01220 | 14.11560 | .02058 | .01054 |
| .596 | 10.610 | -5.00000 | -4.98000 | -.01000 | -.01141 | -2.0400 | -1.9000 | .00510 | 14.65650 | .02078 | .01071 |
| .596 | 11.560 | -4.99000 | -5.01000 | .00000 | -.01796 | -2.0700 | -1.9300 | .00380 | 14.83280 | .02108 | .01090 |
| .596 | 12.530 | -4.99000 | -4.98000 | .00000 | -.02439 | -2.1100 | -1.9900 | .00510 | 14.97650 | .02150 | .01121 |
| .597 | 13.640 | -5.00000 | -4.99000 | .00000 | -.02654 | -2.1800 | -2.0500 | .00490 | 15.19680 | .02216 | .01157 |
| .596 | 14.630 | -5.02000 | -4.99000 | -.01000 | -.02794 | -2.2300 | -2.1100 | .00490 | 15.32410 | .02266 | .01190 |
| .597 | 15.780 | -5.02000 | -5.01000 | .00000 | -.02860 | -2.3000 | -2.1500 | .00490 | 15.46620 | .02345 | .01215 |
| .596 | 16.740 | -5.03000 | -5.02000 | .00000 | -.02791 | -2.3500 | -2.1900 | .00490 | 15.54760 | .02397 | .01234 |
| .596 | 18.980 | -5.04000 | -5.00000 | -.02000 | -.02767 | -2.5600 | -2.3900 | .00770 | 15.73010 | .02603 | .01346 |
| GRADIENT | | -.00225 | -.00278 | .00096 | -.00111 | -.00041 | .00066 | -.00014 | -1.36835 | .00003 | -.00003 |

RUN NO. 58/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AIRLON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .896 | -2.290 | -4.97300 | -5.01000 | .01000 | .05119 | -2.2800 | -2.1700 | .00670 | 18.94180 | .02318 | .01224 |
| .896 | -.040 | -5.00000 | -5.03000 | .00000 | .05199 | -2.2700 | -2.1400 | .00520 | 21.23120 | .02315 | .01205 |
| .896 | 2.020 | -5.01000 | -5.01000 | .00000 | .05099 | -2.2600 | -2.1200 | .01020 | .00000 | .02306 | .01195 |
| .896 | 4.220 | -5.00000 | -5.01000 | .00000 | .04886 | -2.2600 | -2.0700 | .00970 | 12.59120 | .02298 | .01169 |
| .896 | 6.450 | -5.01000 | -4.97000 | -.02000 | .04735 | -2.2500 | -2.0400 | .00500 | 14.34470 | .02298 | .01149 |
| .895 | 8.630 | -5.00000 | -4.99000 | .00000 | .04502 | -2.2700 | -2.0000 | .00950 | 14.91080 | .02307 | .01129 |
| .896 | 10.750 | -4.95000 | -4.99000 | .01000 | .04377 | -2.3400 | -2.0800 | .01260 | 15.28870 | .02382 | .01172 |
| .896 | 11.720 | -4.96000 | -4.99000 | .01000 | .04301 | -2.4200 | -2.1300 | .00860 | 15.42280 | .02467 | .01204 |
| .896 | 13.400 | -5.00000 | -5.00000 | .00000 | .04237 | -2.5400 | -2.2700 | .00890 | 15.62020 | .02584 | .01278 |
| .897 | 13.820 | -5.01000 | -5.01000 | .00000 | .04185 | -2.5700 | -2.3300 | .01390 | 15.66450 | .02617 | .01315 |
| .896 | 14.860 | -5.01000 | -5.01000 | .00000 | .04079 | -2.6500 | -2.4000 | .01820 | 15.76620 | .02698 | .01355 |
| .896 | 15.990 | -5.00000 | -4.99000 | .00000 | .03835 | -2.7700 | -2.5200 | .01720 | 15.79500 | .02820 | .01424 |
| .897 | 17.010 | -5.01000 | -5.01000 | .00000 | .03725 | -2.8700 | -2.6600 | .01910 | 15.82740 | .02921 | .01499 |
| .896 | 19.230 | -5.01000 | -5.01000 | .00000 | .03429 | -3.1300 | -3.0000 | .01880 | 15.83530 | .03184 | .01692 |
| GRADIENT | | -.00465 | -.00044 | -.00140 | -.00037 | .00032 | .00148 | .00064 | -1.83027 | -.00003 | -.00008 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 261

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK055) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 15.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 127/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .597 | -2.130 | 15.00000 | 15.12000 | -.06000 | .04692 | -.23900 | -.23100 | .00600 | 23.71450 | .02430 | .01304 |
| .596 | .090 | 14.99000 | 15.13000 | -.07000 | .04804 | -.23800 | -.23000 | .00700 | 19.43330 | .02422 | .01298 |
| .597 | 2.110 | 14.97000 | 15.10000 | -.06000 | .04472 | -.24000 | -.22700 | .00810 | 18.32300 | .02441 | .01278 |
| .596 | 4.440 | 14.96000 | 15.11000 | -.07000 | .03655 | -.23800 | -.22000 | .00600 | 17.72110 | .02421 | .01241 |
| .596 | 6.520 | 14.98000 | 15.09000 | -.05000 | .02699 | -.23600 | -.21500 | .00570 | 17.50510 | .02399 | .01215 |
| .597 | 8.600 | 14.99000 | 15.11000 | -.06000 | .01425 | -.23800 | -.21400 | .00520 | 17.33070 | .02422 | .01208 |
| .597 | 10.710 | 15.00000 | 15.10000 | -.05000 | .00084 | -.24100 | -.21700 | .00600 | 17.20560 | .02456 | .01208 |
| .597 | 11.660 | 14.94000 | 15.10000 | -.07000 | -.00493 | -.24200 | -.22000 | .00810 | 17.14530 | .02467 | .01227 |
| .596 | 12.710 | 14.97000 | 15.10000 | -.06000 | -.00717 | -.24900 | -.22200 | .00680 | 17.09100 | .02531 | .01254 |
| .597 | 13.760 | 14.95000 | 15.08000 | -.06000 | -.00509 | -.25500 | -.23100 | .01200 | 17.05590 | .02596 | .01302 |
| .597 | 14.860 | 14.98000 | 15.12000 | -.07000 | -.00320 | -.26100 | -.23800 | .00900 | 16.99780 | .02656 | .01341 |
| .597 | 15.930 | 14.96000 | 15.11000 | -.07000 | -.01115 | -.27500 | -.25400 | .01130 | 16.97650 | .02796 | .01431 |
| .597 | 16.910 | 14.95000 | 15.10000 | -.07000 | .00391 | -.29100 | -.27300 | .00870 | 16.96300 | .02966 | .01537 |
| .596 | 19.190 | 14.96000 | 15.10000 | -.06000 | -.00244 | -.32200 | -.30600 | .01310 | 16.92070 | .03274 | .01729 |
| | GRADIENT | -.00542 | -.00267 | -.00096 | -.00159 | .00005 | .00166 | .00004 | -.87653 | -.00000 | -.00010 |

RUN NO. 60/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|--------|---------|---------|--------|-----------|---------|---------|
| .896 | -2.220 | 14.99000 | 14.97000 | .00000 | .05068 | -.25800 | -.24900 | .00630 | -14.82150 | .02625 | .01406 |
| .896 | .050 | 14.95000 | 14.96000 | .00000 | .06372 | -.25200 | -.24300 | .00770 | 19.98050 | .02560 | .01372 |
| .897 | 2.090 | 14.95000 | 14.95000 | .00000 | .05545 | -.24700 | -.24000 | .00770 | 18.54020 | .02518 | .01352 |
| .896 | 4.290 | 14.95000 | 15.05000 | -.05000 | .06461 | -.24500 | -.23600 | .00650 | 18.03100 | .02490 | .01332 |
| .896 | 6.530 | 14.96000 | 14.98000 | -.01000 | .06200 | -.26900 | -.24200 | .00680 | 17.78980 | .02736 | .01367 |
| .895 | 8.750 | 14.96000 | 14.99000 | -.01000 | .05964 | -.28000 | -.24800 | .00650 | 17.55190 | .02954 | .01401 |
| .896 | 10.870 | 14.95000 | 14.98000 | -.01000 | .05924 | -.29600 | -.26800 | .00580 | 17.41470 | .03014 | .01511 |
| .897 | 11.810 | 14.96000 | 14.99000 | -.01000 | .05914 | -.30300 | -.27900 | .00580 | 17.35320 | .03080 | .01573 |
| .896 | 13.960 | 14.97000 | 15.00000 | -.02000 | .06333 | -.31600 | -.29500 | .01560 | 17.27950 | .03220 | .01662 |
| .896 | 14.980 | 14.95000 | 15.00000 | -.02000 | .06361 | -.32400 | -.30000 | .00810 | 17.28440 | .03296 | .01690 |
| .896 | 16.090 | 14.95000 | 15.00000 | -.02000 | .06391 | -.33400 | -.31000 | .01230 | 17.24140 | .03403 | .01746 |
| .896 | 17.110 | 14.96000 | 15.00000 | -.02000 | .06269 | -.35100 | -.32300 | .01760 | 17.18760 | .03569 | .01821 |
| .896 | 19.310 | 14.96000 | 14.97000 | -.00000 | .06017 | -.36900 | -.34300 | .01450 | 17.11520 | .03754 | .01932 |
| | GRADIENT | -.00562 | -.01111 | -.00696 | .00688 | -.40100 | -.38600 | .01390 | 16.96200 | .04076 | .02179 |
| | | | | | .00063 | .00204 | .00195 | .00003 | 4.55877 | -.00021 | -.00011 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK056) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 15.000
 AILRON = .000 BETA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 196/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|----------|---------|--------|--------|--------|---------|----------|---------|---------|
| 1.197 | -2.140 | 14.96000 | 14.96000 | .00000 | .11178 | -37700 | -37100 | .01470 | 9.99640 | .03833 | .02091 |
| 1.197 | .090 | 14.96000 | 14.89000 | .03000 | .11250 | -36400 | -35700 | .01360 | 20.28260 | .03701 | .02013 |
| 1.198 | 2.110 | 14.96000 | 14.93000 | .01000 | .11282 | -35900 | -34600 | .01320 | 18.86860 | .03643 | .01951 |
| 1.198 | 4.220 | 14.96000 | 15.09000 | -.06000 | .11232 | -36000 | -34300 | .01180 | 18.39050 | .03664 | .01937 |
| 1.198 | 6.570 | 14.96000 | 14.94000 | .00000 | .11038 | -36500 | -34700 | .01420 | 18.15440 | .03710 | .01954 |
| 1.197 | 8.760 | 14.96000 | 14.99000 | -.01000 | .10560 | -36900 | -35100 | .00880 | 17.89410 | .03758 | .01982 |
| 1.198 | 10.880 | 14.96000 | 15.05000 | -.04000 | .10197 | -37500 | -35800 | .01150 | 17.73320 | .03819 | .02026 |
| 1.197 | 11.910 | 14.96000 | 14.98000 | -.01000 | .10099 | -37900 | -36600 | .00950 | 17.64630 | .03856 | .02061 |
| 1.197 | 13.230 | 14.96000 | 14.94000 | .00000 | .09998 | -38700 | -37400 | .01290 | 17.56540 | .03937 | .02110 |
| 1.198 | 14.080 | 14.96000 | 14.94000 | .00000 | .09991 | -39400 | -37900 | .01410 | 17.53010 | .04012 | .02140 |
| 1.199 | 15.100 | 14.96000 | 14.96000 | .00000 | .09975 | -40400 | -38800 | .01990 | 17.48620 | .04105 | .02188 |
| 1.198 | 16.220 | 14.96000 | 14.96000 | .00000 | .09979 | -41200 | -40100 | .01360 | 17.43010 | .04188 | .02263 |
| 1.198 | 17.230 | 14.96000 | 14.99000 | -.01000 | .09933 | -42200 | -41300 | .01770 | 17.38200 | .04296 | .02326 |
| 1.199 | 19.500 | 14.96000 | 15.04000 | -.04000 | .09747 | -45100 | -43700 | .01480 | 17.29270 | .04583 | .02461 |
| | GRADIENT | .00000 | .02007 | -.00934 | .00009 | .00272 | .00451 | -.00043 | 1.14906 | -.00027 | -.00025 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T13-103 (LA70)

PAGE 263

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUJ057) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|---------|----------|----------|---------|--------|---------|---------|---------|----------|--------|--------|
| .597 | -6.100 | -9.97000 | -9.93000 | -0.1000 | .03947 | -.19000 | -.18400 | .00770 | 19.49410 | .01937 | .01037 |
| .596 | -4.070 | -9.96000 | -9.93000 | -0.1000 | .04077 | -.18900 | -.18200 | .00570 | 19.78390 | .01922 | .01025 |
| .597 | -2.040 | -9.96000 | -9.91000 | -0.2000 | .04328 | -.18700 | -.18100 | .00320 | 19.87490 | .01904 | .01024 |
| .597 | -1.020 | -9.95000 | -9.93000 | .00000 | .04305 | -.18600 | -.18100 | .00550 | 19.73150 | .01898 | .01021 |
| .597 | -.500 | -9.95000 | -9.93000 | .00000 | .04330 | -.18700 | -.18100 | .00660 | 19.88900 | .01908 | .01024 |
| .597 | .000 | -9.96000 | -9.93000 | -0.1000 | .04346 | -.18600 | -.18000 | .00490 | 19.86200 | .01996 | .01018 |
| .596 | .500 | -9.96000 | -9.93000 | -0.1000 | .04367 | -.18700 | -.18100 | .00400 | 19.71800 | .01904 | .01021 |
| .597 | 1.010 | -9.96000 | -9.94000 | .00000 | .04306 | -.18800 | -.18200 | .00510 | 19.75840 | .01916 | .01026 |
| .597 | 2.040 | -9.98000 | -9.93000 | -0.2000 | .04270 | -.18900 | -.18200 | .00360 | 19.72260 | .01913 | .01028 |
| .597 | 4.070 | -9.97000 | -9.92000 | -0.2000 | .04113 | -.19200 | -.18500 | .00490 | 19.71400 | .01966 | .01050 |
| .598 | 6.110 | -9.96000 | -9.92000 | -0.1000 | .03908 | -.19400 | -.18800 | .00620 | 19.71060 | .01977 | .01060 |
| GRADIENT | -.00220 | -.00023 | -.00023 | -.00104 | .00001 | -.00037 | -.00044 | -.00009 | -.01483 | .00004 | .00003 |

RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|---------|-----------|-----------|---------|--------|---------|---------|---------|----------|--------|--------|
| .797 | -6.150 | -9.99000 | -9.99000 | .00000 | .04580 | -.21100 | -.20900 | .00850 | 20.15530 | .02154 | .01179 |
| .797 | -4.090 | -9.98000 | -9.99000 | .00000 | .04743 | -.20900 | -.20600 | .00690 | 20.15000 | .02131 | .01162 |
| .797 | -2.050 | -9.99000 | -9.99000 | .00000 | .04914 | -.20900 | -.20400 | .00790 | 20.14250 | .02129 | .01152 |
| .797 | -1.020 | -10.00000 | -9.98000 | .00000 | .04936 | -.20800 | -.20100 | .00370 | 20.22560 | .02122 | .01135 |
| .796 | -.500 | -9.99000 | -9.98000 | .00000 | .04932 | -.20900 | -.20100 | .00560 | 20.24370 | .02124 | .01133 |
| .797 | .000 | -10.00000 | -9.99000 | .00000 | .04947 | -.20900 | -.20100 | .00660 | 20.16710 | .02125 | .01134 |
| .796 | 1.030 | -10.00000 | -10.00000 | .00000 | .04947 | -.20800 | -.20100 | .00570 | 20.10060 | .02120 | .01136 |
| .797 | 2.060 | -10.01000 | -9.99000 | .00000 | .04959 | -.20800 | -.20200 | .00480 | 20.20000 | .02121 | .01142 |
| .796 | 4.100 | -10.00000 | -9.99000 | .00000 | .04941 | -.20900 | -.20600 | .00420 | 20.08730 | .02126 | .01161 |
| .797 | 6.150 | -10.01000 | -9.99000 | .00000 | .04774 | -.21300 | -.21100 | .00520 | 20.10860 | .02164 | .01193 |
| GRADIENT | -.00264 | -.00045 | -.00045 | -.00000 | .00005 | -.00030 | -.00058 | -.00030 | -.00854 | .00003 | .00003 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK057) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 75/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|----------|--------|--------|---------|---------|---------|----------|--------|--------|
| .896 | -6.170 | -9.94000 | -9.98000 | .02000 | .06048 | -.23200 | -.23200 | .00530 | 20.53200 | .02365 | .01310 |
| .896 | -4.110 | -9.94000 | -9.95000 | .00000 | .06164 | -.22500 | -.22400 | .00630 | 20.63150 | .02292 | .01261 |
| .896 | -2.060 | -9.93000 | -9.93000 | .00000 | .06334 | -.22100 | -.21500 | .00500 | 20.71290 | .02254 | .01215 |
| .896 | -1.030 | -9.93000 | -9.97000 | .02000 | .06347 | -.21900 | -.21400 | .00560 | 20.85930 | .02230 | .01210 |
| .896 | -.500 | -9.93000 | -9.96000 | .01000 | .06396 | -.21800 | -.21400 | .00440 | 20.83110 | .02215 | .01207 |
| .895 | .000 | -9.93000 | -9.96000 | .01000 | .06415 | -.21800 | -.21400 | .00410 | 20.72790 | .02215 | .01212 |
| .896 | .500 | -9.94000 | -9.95000 | .00000 | .06418 | -.21700 | -.21400 | .00410 | 20.80500 | .02211 | .01209 |
| .896 | 1.030 | -9.93000 | -9.96000 | .01000 | .06405 | -.21800 | -.21500 | .00480 | 20.77990 | .02223 | .01216 |
| .896 | 2.060 | -9.94000 | -9.95000 | .01000 | .06383 | -.21800 | -.21700 | .00560 | 20.70800 | .02222 | .01223 |
| .896 | 4.110 | -9.93000 | -9.94000 | .00000 | .06251 | -.22700 | -.22900 | .00470 | 20.53910 | .02313 | .01290 |
| .896 | 6.170 | -9.93000 | -9.96000 | .01000 | .06046 | -.23600 | -.23800 | .00450 | 20.50660 | .02403 | .01342 |
| GRADIENT | | .00035 | -.00012 | .00012 | .0012 | -.00001 | -.00057 | -.00014 | -.01080 | .00000 | .00003 |

RUN NO. 161/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|-----------|--------|--------|---------|---------|---------|----------|--------|--------|
| .946 | -6.180 | -9.96000 | -10.05000 | .04000 | .07923 | -.27400 | -.27300 | .00800 | 21.07150 | .02793 | .01539 |
| .946 | -4.110 | -9.97000 | -10.03000 | .02000 | .08068 | -.26400 | -.25800 | .00590 | 21.15890 | .02682 | .01457 |
| .946 | -2.060 | -9.96000 | -10.04000 | .04000 | .08115 | -.25600 | -.24500 | .00450 | 21.26860 | .02611 | .01382 |
| .946 | -1.030 | -9.96000 | -10.04000 | .04000 | .08140 | -.25500 | -.24300 | .00610 | 21.35460 | .02597 | .01373 |
| .946 | -.500 | -9.96000 | -10.04000 | .04000 | .08178 | -.25500 | -.24300 | .00530 | 21.30580 | .02597 | .01370 |
| .946 | .010 | -9.95000 | -10.04000 | .04000 | .08190 | -.25600 | -.24500 | .00370 | 21.24940 | .02610 | .01384 |
| .947 | .500 | -9.95000 | -10.04000 | .04000 | .08203 | -.25500 | -.24400 | .00520 | 21.33880 | .02594 | .01375 |
| .946 | 1.040 | -9.96000 | -10.04000 | .04000 | .08182 | -.25500 | -.24500 | .00490 | 21.41580 | .02596 | .01380 |
| .946 | 2.070 | -9.95000 | -10.04000 | .04000 | .08213 | -.25500 | -.25000 | .00400 | 21.29720 | .02594 | .01408 |
| .946 | 4.120 | -9.95000 | -10.04000 | .04000 | .08175 | -.26500 | -.26500 | .00450 | 21.09260 | .02715 | .01497 |
| .946 | 6.180 | -9.94000 | -10.04000 | .04000 | .07924 | -.28100 | -.28000 | .00590 | 21.00200 | .02858 | .01580 |
| GRADIENT | | .00240 | -.00091 | .00183 | .00016 | -.00023 | -.00093 | -.00018 | -.00299 | .00002 | .00005 |

(SUK058) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.000 ELEVON = -10.000
 AILRON = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 228/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|-----------|--------|---------|---------|---------|---------|----------|--------|--------|
| 1.198 | -6.160 | -9.94000 | -10.03000 | .04000 | .11145 | -.35000 | -.33700 | .01920 | 21.56680 | .03659 | .01899 |
| 1.198 | -4.090 | -9.93000 | -10.03000 | .04000 | .11147 | -.34300 | -.32800 | .01730 | 21.51550 | .03494 | .01850 |
| 1.198 | -2.050 | -9.93000 | -10.06000 | .06000 | .11241 | -.33700 | -.32100 | .01870 | 21.59080 | .03428 | .01811 |
| 1.198 | -1.030 | -9.94000 | -10.04000 | .05000 | .11271 | -.34000 | -.31500 | .01760 | 21.82410 | .03454 | .01777 |
| 1.198 | -.500 | -9.93000 | -10.05000 | .06000 | .11251 | -.34100 | -.31500 | .01470 | 21.69590 | .03467 | .01784 |
| 1.197 | .000 | -9.93000 | -10.04000 | .05000 | .11259 | -.34300 | -.31900 | .01480 | 21.76710 | .03490 | .01798 |
| 1.198 | .500 | -9.93000 | -10.04000 | .05000 | .11257 | -.34200 | -.31900 | .01350 | 21.68510 | .03483 | .01798 |
| 1.198 | 1.020 | -9.92000 | -10.04000 | .05000 | .11243 | -.34300 | -.32100 | .01240 | 21.69010 | .03489 | .01813 |
| 1.197 | 2.070 | -9.93000 | -10.04000 | .05000 | .11239 | -.34300 | -.32400 | .01480 | 21.57690 | .03494 | .01829 |
| 1.198 | 4.100 | -9.92000 | -10.04000 | .05000 | .11129 | -.35000 | -.33200 | .01800 | 21.85000 | .03560 | .01871 |
| 1.198 | 6.170 | -9.93000 | -10.02000 | .04000 | .11080 | -.36900 | -.34400 | .02330 | 21.54440 | .03742 | .01939 |
| | GRADIENT | .00138 | .00012 | .00034 | -.00002 | -.00100 | -.00068 | -.00025 | .02679 | .00010 | .00004 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK059) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 140/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|---------|-----------|--------|--------|
| .596 | -6.110 | -9.97000 | -9.94000 | -.01000 | .02861 | -.19200 | -.18400 | .00600 | -29.20800 | .01951 | .01038 |
| .597 | -4.070 | -9.97000 | -9.94000 | -.01000 | .03097 | -.19300 | -.18500 | .00660 | -76.13370 | .01968 | .01051 |
| .597 | -2.040 | -9.97000 | -9.95000 | .00000 | .03249 | -.19300 | -.18300 | .00550 | .00000 | .01934 | .01033 |
| .597 | -1.020 | -9.97000 | -9.95000 | .00000 | .03244 | -.19000 | -.18200 | .00380 | .00700 | .01933 | .01026 |
| .597 | -.500 | -9.98000 | -9.94000 | -.01000 | .03198 | -.19000 | -.18000 | .00660 | -92.03270 | .01936 | .01013 |
| .596 | .000 | -9.98000 | -9.94000 | -.01000 | .03287 | -.19000 | -.17900 | .00600 | .00000 | .01931 | .01012 |
| .596 | .500 | -9.98000 | -9.92000 | -.02000 | .03275 | -.18900 | -.17900 | .00620 | .00000 | .01929 | .01012 |
| .596 | 1.020 | -9.97000 | -9.94000 | -.01000 | .03295 | -.19100 | -.18300 | .00510 | .00000 | .01947 | .01034 |
| .597 | 2.040 | -9.99000 | -9.94000 | -.02000 | .03240 | -.19300 | -.18600 | .00510 | .00000 | .01965 | .01053 |
| .597 | 4.060 | -9.99000 | -9.94000 | -.02000 | .03060 | -.19300 | -.18600 | .00420 | -36.03010 | .01961 | .01059 |
| .597 | 6.110 | -9.99000 | -9.95000 | -.01000 | .02924 | -.19300 | -.18700 | .00510 | -28.58140 | .01963 | .01058 |
| | GRADIENT | -.00278 | .00092 | -.00220 | -.00002 | -.00015 | -.00034 | -.00023 | 4.76366 | .00001 | .00002 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 150/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|-----------|-----------|--------|--------|---------|---------|---------|----------|---------|--------|
| .797 | -6.150 | -10.0000 | -10.0100 | .0000 | .03501 | -.21400 | -.21000 | .00580 | 4.44720 | .02177 | .01184 |
| .797 | -4.090 | -10.0100 | -10.0200 | .0000 | .03625 | -.21000 | -.20300 | .00700 | 2.69660 | .02143 | .01146 |
| .796 | -2.050 | -10.0200 | -10.0300 | .0000 | .03745 | -.20900 | -.19700 | .00550 | .72850 | .02124 | .01112 |
| .797 | -1.020 | -9.99000 | -10.00000 | .0000 | .03804 | -.20900 | -.19600 | .00500 | -1.13390 | .02133 | .01109 |
| .797 | -.500 | -10.00000 | -10.00000 | .0000 | .03807 | -.20800 | -.19500 | .00630 | -.27910 | .02118 | .01104 |
| .797 | .000 | -10.00000 | -10.01000 | .0000 | .03813 | -.20900 | -.19500 | .00480 | -.32640 | .02126 | .01099 |
| .797 | .500 | -10.00000 | -10.00000 | .0000 | .03819 | -.20900 | -.19600 | .00480 | -.50020 | .02128 | .01105 |
| .797 | 1.020 | -10.01000 | -9.99000 | .0000 | .03831 | -.20900 | -.19700 | .00520 | -.83020 | .02124 | .01114 |
| .797 | 2.060 | -10.00000 | -10.00000 | .0000 | .03797 | -.20900 | -.20000 | .00630 | -.55980 | .02124 | .01129 |
| .795 | 4.100 | -10.00000 | -10.00000 | .0000 | .03725 | -.20900 | -.20600 | .00470 | -.30910 | .02133 | .01164 |
| .797 | 6.150 | -9.99000 | -10.01000 | .0000 | .03589 | -.21400 | -.21300 | .00890 | 2.11130 | .02179 | .01200 |
| | GRADIENT | .00046 | .00299 | .00000 | .00012 | .00008 | -.00044 | -.00019 | -.33081 | -.00001 | .00003 |

RUN NO. 76/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|--------|---------|---------|--------|----------|---------|--------|
| .896 | -6.170 | -9.93000 | -9.97000 | .02000 | .05232 | -.22700 | -.22700 | .00650 | 11.95350 | .02310 | .01279 |
| .896 | -4.110 | -9.93000 | -9.94000 | .00000 | .05326 | -.22000 | -.21100 | .00630 | 11.51600 | .02243 | .01193 |
| .896 | -2.050 | -9.94000 | -9.93000 | .00000 | .05553 | -.21600 | -.20400 | .00530 | 10.91440 | .02202 | .01151 |
| .896 | -1.030 | -9.93000 | -9.96000 | .01000 | .05568 | -.21400 | -.20300 | .00380 | 10.63610 | .02183 | .01146 |
| .896 | -.500 | -9.94000 | -9.95000 | .00000 | .05664 | -.21400 | -.20400 | .00710 | 10.55790 | .02183 | .01153 |
| .896 | .000 | -9.93000 | -9.95000 | .01000 | .05621 | -.21500 | -.20500 | .00590 | 10.76963 | .02187 | .01159 |
| .896 | .510 | -9.94000 | -9.95000 | .00000 | .05668 | -.21500 | -.20600 | .00450 | 10.42420 | .02190 | .01163 |
| .896 | 1.030 | -9.93000 | -9.96000 | .01000 | .05661 | -.21400 | -.20500 | .00530 | 10.81820 | .02182 | .01155 |
| .895 | 2.070 | -9.94000 | -9.95000 | .00000 | .05583 | -.21500 | -.20800 | .00570 | 10.84120 | .02186 | .01173 |
| .896 | 4.110 | -9.94000 | -9.94000 | .00000 | .05437 | -.22000 | -.21800 | .00630 | 11.16470 | .02241 | .01229 |
| .896 | 6.170 | -9.94000 | -9.94000 | .00000 | .05328 | -.23000 | -.23200 | .00530 | 11.35520 | .02345 | .01307 |
| | GRADIENT | -.00092 | -.00092 | -.00000 | .00012 | .00004 | -.00089 | .00002 | -.03874 | -.00001 | .00005 |

PARAMETRIC DATA

ELEVON = -10.000
 ALPHA = 5.000
 SPOBRK = 25.000
 BDFLAP = .000

(SUK059) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

RN/L = 4.50 ELEVON = -10.000
 AILRON = .000 ALPHA = 5.000
 CRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BOFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 162/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|-----------|-----------|--------|--------|---------|---------|--------|---------|--------|--------|
| .947 | -6.180 | -10.01000 | -10.04000 | .01000 | .07321 | -.26800 | -.26600 | .00790 | 9.32370 | .02729 | .01501 |
| .946 | -4.110 | -10.01000 | -10.04000 | .01000 | .07483 | -.25500 | -.24800 | .00450 | 8.75070 | .02594 | .01400 |
| .946 | -2.060 | -10.01000 | -10.04000 | .01000 | .07683 | -.24700 | -.23300 | .00460 | 8.24590 | .02517 | .01313 |
| .946 | -1.030 | -10.01000 | -10.04000 | .01000 | .07694 | -.24600 | -.23100 | .00460 | 8.17280 | .02505 | .01304 |
| .947 | -.510 | -9.99000 | -10.05000 | .03000 | .07678 | -.24800 | -.23100 | .00490 | 8.20270 | .02520 | .01304 |
| .946 | .000 | -10.00000 | -10.05000 | .02000 | .07712 | -.24700 | -.23100 | .00750 | 7.96670 | .02517 | .01301 |
| .946 | .500 | -9.99000 | -10.04000 | .02000 | .07661 | -.24600 | -.22900 | .00610 | 8.37060 | .02500 | .01293 |
| .946 | 1.030 | -9.99000 | -10.05000 | .03000 | .07691 | -.24800 | -.23200 | .00520 | 8.29850 | .02524 | .01310 |
| .946 | 2.070 | -9.99000 | -10.05000 | .03000 | .07664 | -.25100 | -.23900 | .00500 | 8.36790 | .02551 | .01347 |
| .946 | 4.120 | -9.95000 | -10.06000 | .05000 | .07502 | -.25700 | -.25400 | .00620 | 8.83910 | .02612 | .01431 |
| .946 | 6.190 | -9.97000 | -10.06000 | .04000 | .07296 | -.27000 | -.27000 | .00590 | 8.93990 | .02748 | .01524 |
| | GRADIENT | .00686 | -.00240 | .00492 | .00001 | -.00039 | -.00083 | .00020 | .01853 | .00003 | .00004 |

RUN NO. 286/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|-----------|-----------|---------|---------|---------|---------|--------|----------|--------|--------|
| .977 | -6.180 | -10.03000 | -10.00000 | -.01000 | .08306 | -.33100 | -.32400 | .00720 | 10.04350 | .03365 | .01829 |
| .978 | -4.110 | -10.03000 | -10.04000 | .00000 | .08451 | -.31300 | -.30400 | .00940 | 9.71980 | .03182 | .01714 |
| .977 | -2.060 | -10.00000 | -10.04000 | .01000 | .08542 | -.30200 | -.29300 | .00730 | 9.41370 | .03076 | .01653 |
| .977 | -1.030 | -10.01000 | -10.02000 | .00000 | .08589 | -.29800 | -.28800 | .00550 | 9.08700 | .03033 | .01524 |
| .977 | -.510 | -10.01000 | -10.01000 | .00000 | .08570 | -.29900 | -.28700 | .00630 | 9.31400 | .03044 | .01618 |
| .978 | .000 | -9.99000 | -10.03000 | .01000 | .08628 | -.30100 | -.29000 | .00520 | 9.08960 | .03067 | .01635 |
| .978 | .500 | -10.01000 | -10.03000 | .00000 | .08603 | -.30200 | -.29200 | .00440 | 9.40690 | .03073 | .01649 |
| .978 | 1.030 | -10.01000 | -10.03000 | .00000 | .08603 | -.30300 | -.29500 | .00470 | 9.17170 | .03080 | .01664 |
| .978 | 2.070 | -9.99000 | -10.03000 | .01000 | .08598 | -.30600 | -.29900 | .00400 | 9.20030 | .03112 | .01689 |
| .977 | 4.100 | -9.99000 | -10.04000 | .02000 | .08390 | -.31000 | -.31000 | .00770 | 9.50970 | .03211 | .01750 |
| .978 | 6.180 | -10.01000 | -10.04000 | .01000 | .08284 | -.33900 | -.33400 | .00590 | 9.67390 | .03448 | .01883 |
| | GRADIENT | .00412 | .00000 | .00183 | -.00002 | -.00061 | -.00104 | .00035 | -.03613 | .00006 | .00006 |

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

(SUK059) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 243/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|----------|--------|---------|---------|---------|---------|----------|--------|--------|
| 1.046 | -6.190 | -9.96000 | -9.95000 | .00000 | .09986 | -.42100 | -.41700 | .00550 | 11.46730 | .04284 | .02353 |
| 1.047 | -4.120 | -9.96000 | -9.95000 | .00000 | .10132 | -.40700 | -.40500 | .00690 | 11.64760 | .04139 | .02285 |
| 1.047 | -2.070 | -9.97000 | -9.95000 | .00000 | .10280 | -.39900 | -.39600 | .01040 | 11.71970 | .04057 | .02235 |
| 1.047 | -1.030 | -9.94000 | -9.98000 | .02000 | .10290 | -.39800 | -.39300 | .00590 | 11.38150 | .04046 | .02215 |
| 1.047 | -.500 | -9.94000 | -9.97000 | .01000 | .10318 | -.39400 | -.39100 | .00560 | 11.34530 | .04005 | .02207 |
| 1.047 | .000 | -9.96000 | -9.95000 | .00000 | .10308 | -.39400 | -.39300 | .00800 | 11.29820 | .04004 | .02214 |
| 1.048 | .500 | -9.96000 | -9.97000 | .00000 | .10331 | -.39400 | -.39400 | .00470 | 11.37830 | .04010 | .02220 |
| 1.048 | 1.030 | -9.95000 | -9.96000 | .00000 | .10296 | -.39300 | -.39400 | .00490 | 11.46270 | .04001 | .02222 |
| 1.048 | 2.070 | -9.95000 | -9.96000 | .00000 | .10284 | -.39700 | -.39800 | .00470 | 11.33090 | .04034 | .02244 |
| 1.047 | 4.130 | -9.95000 | -9.98000 | .01000 | .10107 | -.41000 | -.41000 | .00700 | 11.52140 | .04172 | .02309 |
| 1.048 | 6.150 | -9.97000 | -9.97000 | .00000 | .10018 | -.42000 | -.42000 | .00990 | 11.58240 | .04341 | .02392 |
| | GRADIENT | .00138 | -.00274 | .00035 | -.00002 | -.00007 | -.00061 | -.00028 | -.02706 | .00001 | .00003 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK060) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 229/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|-----------|---------|--------|---------|---------|---------|----------|--------|--------|
| 1.197 | -6.160 | -9.94000 | -10.04000 | .04000 | .10250 | -.35400 | -.34200 | .02900 | 13.47520 | .03602 | .01929 |
| 1.198 | -4.110 | -9.94000 | -10.03000 | .04000 | .10354 | -.34700 | -.33700 | .03010 | 13.62800 | .03532 | .01903 |
| 1.198 | -2.050 | -9.94000 | -10.03000 | .04000 | .10437 | -.34300 | -.32900 | .02370 | 13.74740 | .03490 | .01857 |
| 1.198 | -1.010 | -9.95000 | -10.01000 | .02000 | .10545 | -.32700 | -.32700 | .01840 | 13.68760 | .03570 | .01842 |
| 1.198 | .000 | -9.97000 | -10.04000 | .03000 | .10539 | -.35200 | -.32800 | .01900 | 13.74050 | .03591 | .01849 |
| 1.199 | .510 | -9.97000 | -10.03000 | .03000 | .10526 | -.33200 | -.33000 | .01660 | 13.68350 | .03582 | .01959 |
| 1.198 | 1.030 | -9.95000 | -10.03000 | .03000 | .10524 | -.35300 | -.33200 | .01970 | 13.63570 | .03579 | .01872 |
| 1.197 | 2.060 | -9.97000 | -10.03000 | .03000 | .10513 | -.35200 | -.33500 | .01780 | 13.64810 | .03579 | .01890 |
| 1.197 | 4.110 | -9.97000 | -10.04000 | .03000 | .10456 | -.33800 | -.33800 | .01660 | 13.56700 | .03575 | .01906 |
| 1.198 | 6.170 | -9.97000 | -10.03000 | .02000 | .10423 | -.34900 | -.33500 | .01660 | 13.41450 | .03554 | .01906 |
| | GRADIENT | -.00447 | -.00080 | -.00229 | .00006 | -.00059 | -.00073 | -.00151 | -.02896 | .00005 | .00004 |

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 AILRON = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)
 LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

REFERENCE DATA PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00
 LREF = 474.8000 INCHES YMRP = 0000 IN. YO ELEVON = -10.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO ALPHA = 10.000
 SCALE = .0150 RUDDER = 0.000 BOFLAP = .000

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|----------|---------|---------|---------|---------|----------|--------|--------|
| .597 | -6.110 | -9.96000 | -9.94000 | .00000 | .00018 | -.19500 | -.18500 | .00980 | 13.25970 | .01981 | .01046 |
| .597 | -4.060 | -9.97000 | -9.94000 | -0.10000 | .00252 | -.19400 | -.18200 | .00470 | 12.95030 | .01972 | .01028 |
| .596 | -2.040 | -9.98000 | -9.93000 | -0.20000 | .00288 | -.19500 | -.18400 | .00850 | 12.91630 | .01982 | .01040 |
| .597 | -1.010 | -9.98000 | -9.95000 | -0.10000 | .00346 | -.19300 | -.18200 | .00450 | 12.81900 | .01970 | .01030 |
| .597 | -.500 | -9.98000 | -9.92000 | -.02000 | .00283 | -.19200 | -.18200 | .00720 | 12.82180 | .01960 | .01026 |
| .596 | .000 | -9.97000 | -9.93000 | -0.10000 | .00390 | -.19400 | -.18200 | .00550 | 12.75220 | .01972 | .01029 |
| .596 | .500 | -9.98000 | -9.93000 | -0.20000 | .00291 | -.19400 | -.18300 | .00730 | 12.88970 | .01971 | .01033 |
| .596 | 1.010 | -9.98000 | -9.93000 | -0.20000 | .00348 | -.19300 | -.18400 | .00190 | 12.84180 | .01966 | .01036 |
| .597 | 2.050 | -9.96000 | -9.93000 | -0.20000 | .00348 | -.19500 | -.18600 | .00340 | 12.89430 | .01985 | .01052 |
| .597 | 4.070 | -9.98000 | -9.93000 | -0.20000 | .00167 | -.19400 | -.18600 | .00550 | 13.00400 | .01973 | .01051 |
| .596 | 6.110 | -9.97000 | -9.93000 | -0.10000 | -.00132 | -.19900 | -.19100 | .00640 | 13.31050 | .02025 | .01076 |
| | GRADIENT | -.00092 | .00127 | -.00116 | -.00005 | -.00002 | -.00052 | -.00022 | .00527 | .00000 | .00003 |

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|-----------|-----------|----------|---------|---------|---------|---------|----------|--------|--------|
| .797 | -6.150 | -10.00000 | -10.04000 | -0.10000 | .02049 | -.21200 | -.20300 | .00890 | 14.32120 | .02154 | .01145 |
| .797 | -4.090 | -9.99000 | -10.03000 | -0.10000 | .02136 | -.21000 | -.20000 | .00530 | 14.26700 | .02136 | .01128 |
| .797 | -2.050 | -10.00000 | -10.04000 | -0.10000 | .02265 | -.21000 | -.19800 | .00400 | 14.13490 | .02140 | .01116 |
| .797 | -.490 | -10.00000 | -10.03000 | -0.10000 | .02283 | -.21000 | -.19400 | .00520 | 14.06820 | .02134 | .01094 |
| .796 | .000 | -9.99000 | -10.01000 | -0.00000 | .02231 | -.20900 | -.19500 | .00320 | 14.04750 | .02128 | .01104 |
| .797 | .510 | -9.99000 | -10.01000 | -0.00000 | .02284 | -.21000 | -.19600 | .00410 | 14.08640 | .02141 | .01107 |
| .797 | 1.020 | -9.99000 | -10.00000 | -0.00000 | .02230 | -.20900 | -.19800 | .00430 | 14.07320 | .02126 | .01118 |
| .796 | 2.060 | -9.97000 | -9.97000 | -0.00000 | .02129 | -.21100 | -.20100 | .00300 | 14.12350 | .02149 | .01136 |
| .796 | 4.100 | -9.98000 | -9.97000 | -0.00000 | .02044 | -.21100 | -.20500 | .00570 | 14.23370 | .02149 | .01156 |
| .796 | 4.910 | -9.99000 | -10.02000 | -0.10000 | .02253 | -.21000 | -.19600 | .00280 | 11.98120 | .02142 | .01108 |
| .796 | 6.160 | -9.99000 | -9.98000 | -0.00000 | .01899 | -.21500 | -.21000 | .00620 | 14.31950 | .02193 | .01184 |
| | GRADIENT | .00159 | .00556 | -.00069 | -.00006 | -.00008 | -.00026 | -.00021 | -.14653 | .00001 | .00002 |

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SLK061) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = 10.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 77/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|----------|---------|---------|---------|---------|--------|----------|---------|--------|
| .896 | -6.190 | -9.91000 | -9.97000 | .03000 | .04852 | -.23400 | -.22400 | .01020 | 14.96440 | -.02386 | .01263 |
| .896 | -4.110 | -9.91000 | -9.96000 | .02000 | .05033 | -.22900 | -.21400 | .00640 | 14.85950 | .02328 | .01209 |
| .896 | -2.060 | -9.92000 | -9.96000 | .02000 | .05090 | -.22800 | -.20900 | .00610 | 14.79820 | .02321 | .01182 |
| .896 | -1.020 | -9.92000 | -9.95000 | .01000 | .05208 | -.22700 | -.21000 | .00540 | 14.79060 | .02311 | .01184 |
| .896 | -.500 | -9.91000 | -9.96000 | .02000 | .05183 | -.22900 | -.21200 | .00920 | 14.80930 | .02331 | .01196 |
| .896 | .000 | -9.93000 | -9.97000 | .02000 | .05173 | -.22900 | -.21100 | .00650 | 14.75070 | .02331 | .01193 |
| .897 | .510 | -9.93000 | -9.96000 | .01000 | .05177 | -.23000 | -.21200 | .00840 | 14.76870 | .02340 | .01197 |
| .897 | 1.030 | -9.93000 | -9.95000 | .01000 | .05146 | -.23000 | -.21300 | .00650 | 14.74760 | .02339 | .01202 |
| .896 | 2.070 | -9.93000 | -9.95000 | .01000 | .05069 | -.23100 | -.21700 | .00760 | 14.76850 | .02353 | .01222 |
| .897 | 4.120 | -9.93000 | -9.94000 | .00000 | .04963 | -.23300 | -.22500 | .00750 | 14.84490 | .02376 | .01269 |
| .896 | 6.190 | -9.93000 | -9.97000 | .02000 | .04717 | -.24000 | -.23500 | .00870 | 14.93310 | .02444 | .01325 |
| GRADIENT | | -.00274 | .00229 | -.00240 | -.00009 | -.00058 | -.00144 | .00019 | -.00504 | .00007 | .00008 |

RUN NO. 167/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|-----------|---------|---------|---------|---------|---------|----------|---------|--------|
| .947 | -6.170 | -9.93000 | -10.04000 | .02000 | .06440 | -.26700 | -.25800 | .00860 | 15.10240 | .02719 | .01453 |
| .946 | -4.110 | -9.98000 | -10.03000 | .02000 | .06494 | -.25600 | -.24400 | .00840 | 15.09870 | .02609 | .01375 |
| .946 | -2.050 | -9.97000 | -10.02000 | .02000 | .06623 | -.25700 | -.23800 | .01120 | 15.09440 | .02615 | .01345 |
| .946 | -1.020 | -9.98000 | -10.03000 | .02000 | .06591 | -.25600 | -.23500 | .00520 | 15.06250 | .02606 | .01326 |
| .946 | -.490 | -9.97000 | -10.03000 | .02000 | .06559 | -.25700 | -.23600 | .00720 | 15.08510 | .02614 | .01329 |
| .947 | .000 | -9.97000 | -10.03000 | .02000 | .06637 | -.25700 | -.23600 | .00650 | 15.08240 | .02619 | .01332 |
| .948 | .510 | -9.98000 | -10.03000 | .02000 | .06550 | -.25700 | -.23700 | .01000 | 15.09500 | .02618 | .01340 |
| .947 | 1.030 | -9.97000 | -10.02000 | .02000 | .06640 | -.25800 | -.23900 | .00800 | 15.10580 | .02629 | .01359 |
| .947 | 2.070 | -9.98000 | -10.01000 | .01000 | .06569 | -.25600 | -.24100 | .00710 | 15.10860 | .02606 | .01359 |
| .947 | 4.120 | -9.98000 | -10.02000 | .01000 | .06476 | -.25600 | -.24700 | .00740 | 15.15030 | .02503 | .01393 |
| .946 | 6.170 | -9.98000 | -10.02000 | .01000 | .06398 | -.26900 | -.26100 | .00680 | 15.10590 | .02733 | .01475 |
| GRADIENT | | -.00034 | .00160 | -.00137 | -.00003 | .00000 | -.00051 | -.00018 | .00547 | -.00000 | .00003 |

(SUK061) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00
 CBLRMS = .00960
 AILRON = .00610
 CRIT = .00620
 RUDDER = .00470
 ELEVON = 4.500
 ALPHA = .000
 SPDRK = 1.000
 BOFLAP = .000

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|-----------|-----------|---------|--------|---------|---------|---------|----------|--------|--------|
| .977 | -6.170 | -10.05000 | -10.03000 | .00000 | .07416 | -.34300 | -.33500 | .00960 | 15.15370 | .03487 | .01891 |
| .977 | -4.110 | -10.04000 | -10.03000 | .00000 | .07417 | -.33000 | -.32200 | .00610 | 15.12410 | .03356 | .01816 |
| .977 | -2.060 | -10.05000 | -10.03000 | .00000 | .07495 | -.33500 | -.32100 | .00620 | 15.12680 | .03383 | .01808 |
| .977 | -1.020 | -10.05000 | -10.04000 | .00000 | .07465 | -.33200 | -.31600 | .00470 | 15.08030 | .03377 | .01784 |
| .978 | -.500 | -10.04000 | -10.03000 | .00000 | .07481 | -.33300 | -.31600 | .00840 | 15.07380 | .03392 | .01781 |
| .978 | .000 | -10.04000 | -10.02000 | .00000 | .07491 | -.33100 | -.31500 | .00780 | 15.05110 | .03372 | .01778 |
| .977 | .510 | -10.05000 | -10.01000 | -.01000 | .07513 | -.33000 | -.31600 | .00630 | 15.07610 | .03359 | .01792 |
| .978 | 1.030 | -10.05000 | -10.01000 | -.01000 | .07517 | -.33400 | -.32700 | .00470 | 15.07430 | .03402 | .01820 |
| .978 | 2.060 | -10.04000 | -10.02000 | .00000 | .07536 | -.33500 | -.32700 | .00620 | 15.08000 | .03405 | .01844 |
| .978 | 4.110 | -10.05000 | -10.03000 | .00000 | .07521 | -.33600 | -.33200 | .00530 | 15.10590 | .03423 | .01873 |
| .978 | 6.170 | -10.05000 | -10.04000 | .00000 | .07411 | -.35300 | -.34600 | .00860 | 15.13020 | .03591 | .01952 |
| | GRADIENT | -.00057 | .00137 | -.00034 | .00013 | -.00065 | -.00135 | -.00010 | -.00393 | .00007 | .00008 |

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|-----------|-----------|---------|---------|---------|---------|--------|----------|--------|--------|
| 1.047 | -6.190 | -9.99000 | -9.96000 | -.01000 | .09118 | -.44500 | -.44000 | .00870 | 15.45560 | .04523 | .02481 |
| 1.048 | -4.110 | -9.99000 | -9.97000 | .00000 | .09139 | -.43900 | -.43600 | .00490 | 15.48280 | .04465 | .02459 |
| 1.047 | -2.070 | -10.00000 | -9.99000 | .00000 | .09059 | -.42900 | -.42800 | .00740 | 15.47820 | .04359 | .02413 |
| 1.048 | -1.020 | -10.00000 | -9.98000 | .00000 | .09028 | -.42000 | -.42200 | .00480 | 15.47200 | .04273 | .02378 |
| 1.047 | -.500 | -9.99000 | -9.99000 | .00000 | .08978 | -.42100 | -.42200 | .00490 | 15.48270 | .04279 | .02382 |
| 1.048 | .010 | -9.99000 | -9.99000 | .00000 | .09042 | -.42100 | -.42300 | .00760 | 15.48180 | .04279 | .02386 |
| 1.048 | .510 | -9.99000 | -9.98000 | .00000 | .09054 | -.42200 | -.42400 | .00510 | 15.49730 | .04293 | .02392 |
| 1.047 | 1.030 | -9.99000 | -10.00000 | .00000 | .09090 | -.42600 | -.42900 | .00440 | 15.49360 | .04337 | .02416 |
| 1.047 | 2.070 | -10.00000 | -9.97000 | -.01000 | .09090 | -.43200 | -.43400 | .01020 | 15.47350 | .04394 | .02445 |
| 1.048 | 4.120 | -9.99000 | -9.97000 | .00000 | .09084 | -.44900 | -.44600 | .00620 | 15.48080 | .04566 | .02515 |
| 1.047 | 6.180 | -10.00000 | -9.98000 | .00000 | .09068 | -.45600 | -.45000 | .00830 | 15.44990 | .04641 | .02536 |
| | GRADIENT | .00023 | .00057 | -.00046 | -.00001 | -.00120 | -.00137 | .00024 | .00026 | .00012 | .00008 |

REFERENCE DATA
 SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA
 RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 297/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|-----------|--------|---------|---------|---------|--------|----------|--------|--------|
| 1.116 | -4.110 | -9.97000 | -10.14000 | .08000 | .09321 | -4.0200 | -38900 | .01200 | 15.73430 | .04093 | .02196 |
| 1.117 | -2.070 | -9.96000 | -10.15000 | .09000 | .09275 | -4.0100 | -38800 | .00920 | 15.75980 | .04080 | .02185 |
| 1.117 | -1.020 | -9.96000 | -10.14000 | .08000 | .09225 | -39800 | -38700 | .00900 | 15.76110 | .04055 | .02180 |
| 1.117 | -.500 | -9.97000 | -10.14000 | .08000 | .09203 | -39800 | -38600 | .01190 | 15.76370 | .04047 | .02178 |
| 1.117 | .000 | -9.97000 | -10.15000 | .08000 | .09188 | -39900 | -38800 | .01280 | 15.75900 | .04054 | .02185 |
| 1.117 | .510 | -9.97000 | -10.17000 | .09000 | .09232 | -4.0000 | -38900 | .01290 | 15.76180 | .04069 | .02195 |
| 1.116 | 1.030 | -9.97000 | -10.16000 | .09000 | .09195 | -4.0400 | -39300 | .01020 | 15.75120 | .04107 | .02215 |
| 1.117 | 2.060 | -9.97000 | -10.14000 | .08000 | .09230 | -4.0800 | -39600 | .01210 | 15.74840 | .04150 | .02233 |
| 1.117 | 4.130 | -9.96000 | -10.15000 | .09000 | .09238 | -4.1700 | -40400 | .01600 | 15.71890 | .04243 | .02275 |
| 1.117 | 6.200 | -9.96000 | -10.16000 | .09000 | .09195 | -4.2600 | -41000 | .01040 | 15.69730 | .04334 | .02312 |
| 1.117 | GRADIENT | .00023 | -.00125 | .00080 | -.00010 | -.00183 | -.00191 | .00054 | -.00218 | .00018 | .00010 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA
 SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA
 RN/L = 4.000 ELEVON = -10.000
 AILRON = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 230/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|-----------|--------|--------|---------|---------|---------|----------|--------|--------|
| 1.198 | -6.160 | -9.97000 | -10.04000 | .03000 | .09268 | -36500 | -35300 | .02610 | 15.95950 | .03717 | .01992 |
| 1.198 | -4.100 | -9.96000 | -10.03000 | .03000 | .09200 | -35900 | -34800 | .01760 | 15.97690 | .03655 | .01961 |
| 1.198 | -2.060 | -9.97000 | -10.03000 | .02000 | .09269 | -36500 | -34500 | .01230 | 15.96610 | .03709 | .01946 |
| 1.198 | -1.020 | -9.97000 | -10.02000 | .02000 | .09256 | -36100 | -34200 | .01230 | 15.95930 | .03673 | .01929 |
| 1.198 | -.490 | -9.96000 | -10.02000 | .02000 | .09305 | -36000 | -34200 | .01470 | 15.96980 | .03662 | .01930 |
| 1.197 | .000 | -9.97000 | -10.03000 | .02000 | .09261 | -36100 | -34400 | .01230 | 15.95430 | .03677 | .01940 |
| 1.198 | .500 | -9.98000 | -10.04000 | .02000 | .09282 | -36300 | -34600 | .01410 | 15.94590 | .03694 | .01953 |
| 1.199 | 1.040 | -9.98000 | -10.02000 | .01000 | .09297 | -36600 | -34900 | .01460 | 15.93180 | .03725 | .01968 |
| 1.198 | 2.070 | -9.96000 | -10.04000 | .03000 | .09259 | -37200 | -35700 | .01230 | 15.95050 | .03768 | .02011 |
| 1.198 | 4.110 | -9.96000 | -10.04000 | .04000 | .09282 | -37700 | -36500 | .01380 | 15.94730 | .03837 | .02059 |
| 1.198 | 6.170 | -9.96000 | -10.04000 | .04000 | .09203 | -38200 | -36800 | .01530 | 15.91090 | .03891 | .02077 |
| 1.198 | GRADIENT | .00001 | -.00159 | .00114 | .00006 | -.00212 | -.00231 | -.00030 | -.00432 | .00022 | .00013 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO ELEVON = -10.000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO ALPHA = 10.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000
 SCALE = .0150 BDFLAP = .000

RUN NO. 163/ 0 RN/L = 7.79 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|-----------|-----------|--------|---------|---------|---------|--------|----------|---------|--------|
| .900 | -2.100 | -9.99000 | -10.02000 | .01000 | .05085 | -.22400 | -.20300 | .00720 | 14.57470 | .02282 | .01147 |
| .900 | -1.030 | -10.01000 | -10.02000 | .00000 | .05156 | -.22400 | -.20300 | .00500 | 14.55820 | .02285 | .01143 |
| .900 | -.490 | -10.01000 | -10.01000 | .00000 | .05109 | -.22400 | -.20100 | .00790 | 14.54550 | .02280 | .01136 |
| .900 | .010 | -10.00000 | -10.02000 | .00000 | .05136 | -.22500 | -.20200 | .00610 | 14.57630 | .02286 | .01142 |
| .900 | .540 | -10.00000 | -10.02000 | .00000 | .05165 | -.22400 | -.20300 | .00610 | 14.57610 | .02277 | .01144 |
| .900 | 1.070 | -9.99000 | -10.02000 | .01000 | .05116 | -.22300 | -.20300 | .00870 | 14.56950 | .02273 | .01147 |
| .900 | 2.130 | -10.00000 | -10.02000 | .00000 | .05073 | -.22200 | -.20700 | .00560 | 14.63160 | .02264 | .01169 |
| .900 | 4.230 | -9.99000 | -10.04000 | .02000 | .04898 | -.22300 | -.21400 | .00720 | 14.77480 | .02267 | .01209 |
| .899 | 6.340 | -9.99000 | -10.04000 | .02000 | .04743 | -.23200 | -.22400 | .00600 | 14.83690 | .02360 | .01264 |
| | GRADIENT | .00153 | -.00309 | .00193 | -.00031 | .00029 | -.00182 | .00006 | .03237 | -.00003 | .00010 |

RUN NO. 142/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|---------|----------|--------|--------|
| .596 | -6.110 | -9.98000 | -9.96000 | .00000 | -.02520 | -.21000 | -.19800 | .00530 | 14.72740 | .02141 | .01115 |
| .597 | -4.070 | -9.96000 | -9.97000 | .00000 | -.02286 | -.20900 | -.19500 | .00450 | 14.64730 | .02133 | .01098 |
| .597 | -2.040 | -9.97000 | -9.95000 | .00000 | -.02114 | -.20900 | -.19500 | .00340 | 14.52710 | .02131 | .01099 |
| .596 | -1.010 | -9.97000 | -9.94000 | -.01000 | -.02127 | -.20900 | -.19900 | .00270 | 14.50890 | .02130 | .01122 |
| .596 | -.500 | -9.97000 | -9.96000 | .00000 | -.02051 | -.21000 | -.20000 | .00490 | 14.54100 | .02136 | .01128 |
| .598 | .000 | -9.97000 | -9.95000 | .00000 | -.02027 | -.20900 | -.20000 | .00510 | 14.47520 | .02125 | .01129 |
| .597 | .490 | -9.97000 | -9.95000 | .00000 | -.02075 | -.21100 | -.20100 | .00400 | 14.52030 | .02145 | .01137 |
| .596 | 1.010 | -9.97000 | -9.94000 | -.01000 | -.02056 | -.21100 | -.20200 | .00340 | 14.53370 | .02150 | .01139 |
| .596 | 2.040 | -9.97000 | -9.94000 | -.01000 | -.02016 | -.21100 | -.20000 | .00420 | 14.55610 | .02148 | .01131 |
| .597 | 4.070 | -9.98000 | -9.94000 | -.01000 | -.02130 | -.20900 | -.19800 | .00350 | 14.63290 | .02131 | .01120 |
| .596 | 6.110 | -9.97000 | -9.95000 | .00000 | -.02289 | -.21400 | -.20400 | .00340 | 14.70490 | .02179 | .01152 |
| | GRADIENT | -.00185 | .00335 | -.00139 | .00020 | -.00015 | -.00059 | -.00004 | .00035 | .00001 | .00004 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO ELEVON = -10.000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO ALPHA = 15.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPOBRK = 25.000
 SCALE = .0150 BDFLAP = .000

RUN NO. 142/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|---------|----------|--------|--------|
| .596 | -6.110 | -9.98000 | -9.96000 | .00000 | -.02520 | -.21000 | -.19800 | .00530 | 14.72740 | .02141 | .01115 |
| .597 | -4.070 | -9.96000 | -9.97000 | .00000 | -.02286 | -.20900 | -.19500 | .00450 | 14.64730 | .02133 | .01098 |
| .597 | -2.040 | -9.97000 | -9.95000 | .00000 | -.02114 | -.20900 | -.19500 | .00340 | 14.52710 | .02131 | .01099 |
| .596 | -1.010 | -9.97000 | -9.94000 | -.01000 | -.02127 | -.20900 | -.19900 | .00270 | 14.50890 | .02130 | .01122 |
| .596 | -.500 | -9.97000 | -9.96000 | .00000 | -.02051 | -.21000 | -.20000 | .00490 | 14.54100 | .02136 | .01128 |
| .598 | .000 | -9.97000 | -9.95000 | .00000 | -.02027 | -.20900 | -.20000 | .00510 | 14.47520 | .02125 | .01129 |
| .597 | .490 | -9.97000 | -9.95000 | .00000 | -.02075 | -.21100 | -.20100 | .00400 | 14.52030 | .02145 | .01137 |
| .596 | 1.010 | -9.97000 | -9.94000 | -.01000 | -.02056 | -.21100 | -.20200 | .00340 | 14.53370 | .02150 | .01139 |
| .596 | 2.040 | -9.97000 | -9.94000 | -.01000 | -.02016 | -.21100 | -.20000 | .00420 | 14.55610 | .02148 | .01131 |
| .597 | 4.070 | -9.98000 | -9.94000 | -.01000 | -.02130 | -.20900 | -.19800 | .00350 | 14.63290 | .02131 | .01120 |
| .596 | 6.110 | -9.97000 | -9.95000 | .00000 | -.02289 | -.21400 | -.20400 | .00340 | 14.70490 | .02179 | .01152 |
| | GRADIENT | -.00185 | .00335 | -.00139 | .00020 | -.00015 | -.00059 | -.00004 | .00035 | .00001 | .00004 |

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA
 SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

4.500 ELEVON = -10.000
 .000 ALPHA = 15.000
 1.000 SPDBRK = 25.000
 .000 BOFLAP = .000

| RUN NO. | 152/ 0 | RN/L = 4.46 | GRADIENT INTERVAL = -5.00/ 5.00 | XCP | CAB | CAC | | | | | |
|----------|-----------|-------------|---------------------------------|---------|---------|---------|---------|---------|----------|---------|--------|
| MACH | ELVN-L | AILRN-R | ELVN-R | AILRN | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
| .797 | -9.99000 | -10.01000 | -9.99000 | .00000 | .01846 | -.22600 | -.21800 | .01030 | 15.07510 | .02304 | .01233 |
| .797 | -9.99000 | -9.99000 | -9.99000 | .00000 | .02099 | -.23000 | -.21700 | .00670 | 15.02930 | .02340 | .01227 |
| .797 | -9.99000 | -9.99000 | -9.99000 | .00000 | .02250 | -.22800 | -.21200 | .00570 | 14.93490 | .02326 | .01197 |
| .796 | -9.99000 | -9.99000 | -9.99000 | .00000 | .02249 | -.22900 | -.21200 | .00590 | 14.93450 | .02327 | .01198 |
| .796 | -9.99000 | -9.99000 | -9.99000 | .00000 | .02258 | -.23000 | -.21200 | .01090 | 14.91560 | .02343 | .01210 |
| .797 | -9.99000 | -9.99000 | -9.99000 | .00000 | .02253 | -.22900 | -.21500 | .00960 | 14.91890 | .02340 | .01216 |
| .796 | -9.99000 | -9.99000 | -9.99000 | .00000 | .02253 | -.22900 | -.21700 | .00910 | 14.92000 | .02329 | .01223 |
| .796 | -10.01000 | -9.98000 | -9.98000 | -.01000 | .02274 | -.22600 | -.21900 | .00690 | 14.93890 | .02336 | .01234 |
| .796 | -10.06000 | -9.96000 | -9.96000 | -.01000 | .01991 | -.22700 | -.22200 | .00480 | 14.97010 | .02299 | .01256 |
| .796 | -10.01000 | -9.97000 | -9.97000 | -.01000 | .01697 | -.22900 | -.22400 | .00800 | 15.06030 | .02313 | .01264 |
| .796 | -10.02000 | -9.98000 | -9.98000 | -.01000 | -.00009 | -.00038 | -.00033 | -.00008 | 15.05560 | .02328 | .01264 |
| GRADIENT | -.00264 | .00356 | .00356 | -.00161 | -.00009 | -.00038 | -.00033 | -.00008 | .00460 | -.00004 | .00005 |

| RUN NO. | 78/ 0 | RN/L = 4.45 | GRADIENT INTERVAL = -5.00/ 5.00 | XCP | CAB | CAC | | | | | |
|----------|----------|-------------|---------------------------------|--------|--------|---------|---------|---------|----------|---------|--------|
| MACH | ELVN-L | AILRN-R | ELVN-R | AILRN | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
| .896 | -9.95000 | -9.97000 | -9.97000 | .01000 | .04318 | -.25700 | -.24800 | .00900 | 15.43200 | .02620 | .01397 |
| .896 | -9.95000 | -9.95000 | -9.95000 | .00000 | .04632 | -.25800 | -.24700 | .01120 | 15.42020 | .02629 | .01395 |
| .896 | -9.94000 | -9.94000 | -9.94000 | .00000 | .04766 | -.26100 | -.24700 | .01020 | 15.40420 | .02656 | .01392 |
| .897 | -9.95000 | -9.96000 | -9.96000 | .00000 | .04848 | -.26200 | -.24800 | .00900 | 15.40760 | .02669 | .01398 |
| .897 | -9.95000 | -9.96000 | -9.96000 | .00000 | .04813 | -.26200 | -.24900 | .01250 | 15.39960 | .02665 | .01403 |
| .896 | -9.95000 | -9.96000 | -9.96000 | .00000 | .04823 | -.26000 | -.24800 | .00760 | 15.40410 | .02644 | .01398 |
| .896 | -9.95000 | -9.96000 | -9.96000 | .00000 | .04826 | -.25800 | -.24800 | .01080 | 15.41050 | .02628 | .01399 |
| .896 | -9.95000 | -9.96000 | -9.96000 | .00000 | .04845 | -.25900 | -.24800 | .01630 | 15.41640 | .02636 | .01399 |
| .896 | -9.95000 | -9.97000 | -9.97000 | .00000 | .04868 | -.25600 | -.25200 | .00830 | 15.44800 | .02606 | .01422 |
| .898 | -9.95000 | -9.97000 | -9.97000 | .01000 | .04705 | -.25700 | -.25400 | .00770 | 15.46390 | .02612 | .01434 |
| .896 | -9.95000 | -10.03000 | -10.03000 | .02000 | .04341 | -.26200 | -.25700 | .01170 | 15.47220 | .02662 | .01452 |
| GRADIENT | -.00114 | -.00319 | -.00319 | .00091 | .00011 | .00043 | -.00086 | -.00026 | .00630 | -.00005 | .00005 |

REFERENCE DATA

| | | | |
|-------------------------|-------------------------|-------------|------------------|
| SREF = 2690.0000 SQ.FT. | XMRP = 1076.7000 IN. XO | RN/L = 4.50 | ELEVON = -10.000 |
| LREF = 474.8000 INCHES | YMRP = .0000 IN. YO | AILRON = | ALPHA = 15.000 |
| BREF = 936.6800 INCHES | ZMRP = 375.0000 IN. ZO | GRIT = | SPOBRK = 25.000 |
| SCALE = .0150 | | RUDDER = | BOFLAP = .000 |

PARAMETRIC DATA

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|----------|----------|-----------|---------|--------|---------|---------|--------|----------|-------------|--------|-------|----------|-----------|-----------|---------|--------|---------|---------|---------------------------------|----------|--------|--------|--|--|--|--|--|--|
| RUN NO. 168/ 0 | | | | | | | | | | RN/L = 4.50 | | | | | | | | | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | | | | | | |
| MACH | BETA | ELVN-L | ELVN-R | AILRN | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC | MACH | BETA | ELVN-L | ELVN-R | AILRN | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC | | | | | | |
| .947 | -6.160 | -9.97000 | -10.03000 | .02000 | .05430 | -.30900 | -.30000 | .01040 | 15.73670 | .03140 | .01693 | .947 | -6.190 | -9.98000 | -10.02000 | .01000 | .07551 | -.47500 | -.46700 | .00410 | 15.94510 | .04933 | .02631 | | | | | | |
| .946 | -4.090 | -9.97000 | -10.04000 | .03000 | .05462 | -.29700 | -.28500 | .00520 | 15.73840 | .03026 | .01609 | 1.047 | -4.120 | -10.00000 | -10.01000 | .00000 | .07565 | -.47300 | -.47000 | .00800 | 15.98720 | .04812 | .02650 | | | | | | |
| .947 | -2.040 | -9.98000 | -10.04000 | .03000 | .05568 | -.30000 | -.28200 | .00700 | 15.75070 | .03048 | .01589 | 1.047 | -2.060 | -9.99000 | -10.03000 | .01000 | .07622 | -.47200 | -.46700 | .00580 | 16.00590 | .04802 | .02634 | | | | | | |
| .946 | -1.010 | -9.98000 | -10.04000 | .02000 | .05639 | -.28600 | -.27800 | .00680 | 15.73550 | .03012 | .01568 | 1.047 | -1.030 | -10.01000 | -10.02000 | .00000 | .07606 | -.47200 | -.46700 | .00970 | 16.02000 | .04805 | .02634 | | | | | | |
| .947 | -.470 | -9.97000 | -10.04000 | .03000 | .05647 | -.29600 | -.28100 | .01000 | 15.74700 | .03015 | .01587 | 1.046 | -.500 | -10.01000 | -10.02000 | .00000 | .07566 | -.47400 | -.46900 | .00610 | 16.00780 | .04821 | .02644 | | | | | | |
| .946 | .020 | -9.98000 | -10.02000 | .01000 | .05686 | -.29500 | -.28000 | .00680 | 15.75210 | .03002 | .01578 | 1.048 | .000 | -10.01000 | -10.03000 | .00000 | .07597 | -.47300 | -.46800 | .01150 | 16.00830 | .04806 | .02637 | | | | | | |
| .947 | .530 | -9.98000 | -10.03000 | .02000 | .05690 | -.29500 | -.28200 | .00770 | 15.77400 | .03000 | .01588 | 1.047 | .510 | -10.00000 | -10.03000 | .01000 | .07631 | -.47400 | -.46900 | .00580 | 16.00460 | .04812 | .02641 | | | | | | |
| .946 | 1.060 | -9.98000 | -10.03000 | .02000 | .05632 | -.29600 | -.28500 | .00790 | 15.76610 | .03028 | .01605 | 1.047 | 1.040 | -10.01000 | -10.03000 | .00000 | .07638 | -.47300 | -.46900 | .00580 | 16.01270 | .04812 | .02650 | | | | | | |
| .946 | 2.050 | -9.97000 | -10.04000 | .03000 | .05600 | -.29400 | -.28400 | .00890 | 15.79140 | .03028 | .01592 | 1.047 | 2.070 | -10.00000 | -10.04000 | .01000 | .07651 | -.47700 | -.47500 | .00670 | 16.00390 | .04856 | .02676 | | | | | | |
| .947 | 4.110 | -9.98000 | -10.03000 | .02000 | .05472 | -.30600 | -.29800 | .00770 | 15.83420 | .03118 | .01681 | 1.047 | 4.130 | -10.01000 | -10.03000 | .00000 | .07666 | -.47500 | -.47200 | .00640 | 15.97920 | .04831 | .02662 | | | | | | |
| .947 | 6.170 | -9.97000 | -10.03000 | .02000 | .05325 | -.31600 | -.30500 | .00730 | 15.79230 | .03211 | .01726 | 1.047 | 6.200 | -10.01000 | -10.03000 | .03000 | .07605 | -.48100 | -.46500 | .00870 | 15.92920 | .04894 | .02626 | | | | | | |
| | GRADIENT | -.00057 | .00127 | -.00104 | .00003 | -.00058 | -.00136 | .00032 | .01166 | .00006 | .00008 | | GRADIENT | -.00126 | -.00262 | -.00011 | .00012 | -.00045 | -.00062 | -.00012 | -.00102 | .00004 | .00003 | | | | | | |

PARAMETRIC DATA

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|----------|-----------|-----------|---------|--------|---------|---------|---------|----------|-------------|--------|-------|----------|-----------|-----------|---------|--------|---------|---------|---------------------------------|----------|--------|--------|--|--|--|--|--|--|
| RUN NO. 245/ 0 | | | | | | | | | | RN/L = 4.51 | | | | | | | | | | GRADIENT INTERV L = -5.00/ 5.00 | | | | | | | | | |
| MACH | BETA | ELVN-L | ELVN-R | AILRN | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC | MACH | BETA | ELVN-L | ELVN-R | AILRN | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC | | | | | | |
| 1.047 | -6.190 | -9.98000 | -10.02000 | .01000 | .07551 | -.47500 | -.46700 | .00410 | 15.94510 | .04933 | .02631 | 1.047 | -6.190 | -9.98000 | -10.02000 | .01000 | .07551 | -.47500 | -.46700 | .00410 | 15.94510 | .04933 | .02631 | | | | | | |
| 1.047 | -4.120 | -10.00000 | -10.01000 | .00000 | .07565 | -.47300 | -.47000 | .00800 | 15.98720 | .04812 | .02650 | 1.047 | -4.120 | -10.00000 | -10.01000 | .00000 | .07565 | -.47300 | -.47000 | .00800 | 15.98720 | .04812 | .02650 | | | | | | |
| 1.047 | -2.060 | -9.99000 | -10.03000 | .01000 | .07622 | -.47200 | -.46700 | .00580 | 16.00590 | .04802 | .02634 | 1.047 | -2.060 | -9.99000 | -10.03000 | .01000 | .07622 | -.47200 | -.46700 | .00580 | 16.00590 | .04802 | .02634 | | | | | | |
| 1.047 | -1.030 | -10.01000 | -10.02000 | .00000 | .07606 | -.47200 | -.46700 | .00970 | 16.02000 | .04805 | .02634 | 1.046 | -1.030 | -10.01000 | -10.02000 | .00000 | .07606 | -.47200 | -.46700 | .00970 | 16.02000 | .04805 | .02634 | | | | | | |
| 1.046 | -.500 | -10.01000 | -10.02000 | .00000 | .07566 | -.47400 | -.46900 | .00610 | 16.00780 | .04821 | .02644 | 1.046 | -.500 | -10.01000 | -10.02000 | .00000 | .07566 | -.47400 | -.46900 | .00610 | 16.00780 | .04821 | .02644 | | | | | | |
| 1.048 | .000 | -10.01000 | -10.03000 | .00000 | .07597 | -.47300 | -.46800 | .01150 | 16.00830 | .04806 | .02637 | 1.048 | .000 | -10.01000 | -10.03000 | .00000 | .07597 | -.47300 | -.46800 | .01150 | 16.00830 | .04806 | .02637 | | | | | | |
| 1.047 | .510 | -10.00000 | -10.03000 | .01000 | .07631 | -.47400 | -.46900 | .00580 | 16.00460 | .04812 | .02641 | 1.047 | .510 | -10.00000 | -10.03000 | .01000 | .07631 | -.47400 | -.46900 | .00580 | 16.00460 | .04812 | .02641 | | | | | | |
| 1.047 | 1.040 | -10.01000 | -10.03000 | .00000 | .07638 | -.47300 | -.46900 | .00580 | 16.01270 | .04812 | .02650 | 1.047 | 1.040 | -10.01000 | -10.03000 | .00000 | .07638 | -.47300 | -.46900 | .00580 | 16.01270 | .04812 | .02650 | | | | | | |
| 1.047 | 2.070 | -10.00000 | -10.04000 | .01000 | .07651 | -.47700 | -.47500 | .00670 | 16.00390 | .04856 | .02676 | 1.047 | 2.070 | -10.00000 | -10.04000 | .01000 | .07651 | -.47700 | -.47500 | .00670 | 16.00390 | .04856 | .02676 | | | | | | |
| 1.047 | 4.130 | -10.01000 | -10.03000 | .00000 | .07666 | -.47500 | -.47200 | .00640 | 15.97920 | .04831 | .02662 | 1.047 | 4.130 | -10.01000 | -10.03000 | .00000 | .07666 | -.47500 | -.47200 | .00640 | 15.97920 | .04831 | .02662 | | | | | | |
| 1.047 | 6.200 | -10.00000 | -10.05000 | .03000 | .07605 | -.48100 | -.46500 | .00870 | 15.92920 | .04894 | .02626 | 1.047 | 6.200 | -10.00000 | -10.05000 | .03000 | .07605 | -.48100 | -.46500 | .00870 | 15.92920 | .04894 | .02626 | | | | | | |
| | GRADIENT | -.00126 | -.00262 | -.00011 | .00012 | -.00045 | -.00062 | -.00012 | -.00102 | .00004 | .00003 | | GRADIENT | -.00126 | -.00262 | -.00011 | .00012 | -.00045 | -.00062 | -.00012 | -.00102 | .00004 | .00003 | | | | | | |

(SUK065) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 231/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|-----------|--------|--------|---------|---------|---------|----------|--------|--------|
| 1.198 | -6.170 | -9.97000 | -10.06000 | .04000 | .08003 | -.39200 | -.38500 | .01580 | 16.30460 | .03992 | .02168 |
| 1.198 | -4.120 | -9.95000 | -10.03000 | .03000 | .07993 | -.38800 | -.38200 | .01580 | 16.30840 | .03949 | .02153 |
| 1.198 | -2.060 | -9.95000 | -10.02000 | .03000 | .08000 | -.39400 | -.38700 | .01010 | 16.28000 | .04004 | .02183 |
| 1.197 | -1.020 | -9.95000 | -10.04000 | .04000 | .08050 | -.39500 | -.38900 | .01070 | 16.28350 | .04016 | .02194 |
| 1.198 | -.490 | -9.95000 | -10.04000 | .04000 | .08036 | -.39600 | -.39000 | .00970 | 16.28330 | .04027 | .02200 |
| 1.197 | .000 | -9.94000 | -10.04000 | .04000 | .08056 | -.39700 | -.39200 | .01060 | 16.29410 | .04038 | .02208 |
| 1.197 | .510 | -9.95000 | -10.04000 | .04000 | .08058 | -.39800 | -.39300 | .01060 | 16.29490 | .04049 | .02215 |
| 1.197 | 1.040 | -9.93000 | -10.04000 | .05000 | .08074 | -.39700 | -.39300 | .01160 | 16.29030 | .04043 | .02214 |
| 1.198 | 2.080 | -9.94000 | -10.04000 | .04000 | .08078 | -.40000 | -.39400 | .01130 | 16.29490 | .04069 | .02222 |
| 1.199 | 4.120 | -9.96000 | -10.04000 | .03000 | .07993 | -.39700 | -.39200 | .01340 | 16.29790 | .04042 | .02211 |
| 1.197 | 6.190 | -9.98000 | -10.04000 | .03000 | .08036 | -.40000 | -.39400 | .01500 | 16.27670 | .04068 | .02219 |
| | GRADIENT | .00000 | -.00183 | .00069 | .00004 | -.00117 | -.00136 | -.00008 | -.00001 | .00012 | .00008 |

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(SUK066) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 143/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|---------|----------|---------|---------|
| .596 | -6.110 | -9.97000 | -9.98000 | .00000 | -.02708 | -.23500 | -.22300 | .01090 | 15.36350 | .02394 | .01259 |
| .597 | -4.070 | -9.97000 | -9.97000 | .00000 | -.02336 | -.24000 | -.22600 | .00490 | 15.33940 | .02446 | .01273 |
| .597 | -2.040 | -9.95000 | -9.96000 | .00000 | -.02160 | -.24300 | -.22600 | .00440 | 15.31200 | .02478 | .01275 |
| .596 | -1.010 | -9.98000 | -9.98000 | .00000 | -.02050 | -.23800 | -.22500 | .00530 | 15.29930 | .02427 | .01270 |
| .597 | -.500 | -9.99000 | -9.97000 | .00000 | -.01950 | -.23600 | -.22300 | .00570 | 15.29410 | .02401 | .01258 |
| .596 | .000 | -9.98000 | -9.97000 | .00000 | -.01868 | -.23600 | -.22300 | .00720 | 15.28430 | .02404 | .01256 |
| .597 | .500 | -9.99000 | -9.97000 | .00000 | -.02059 | -.23600 | -.22300 | .00960 | 15.28320 | .02407 | .01258 |
| .597 | 1.020 | -9.98000 | -9.97000 | .00000 | -.02131 | -.23600 | -.22300 | .00960 | 15.28650 | .02399 | .01254 |
| .596 | 2.040 | -9.93000 | -9.97000 | .00000 | -.02140 | -.23300 | -.22200 | .00380 | 15.27460 | .02373 | .01255 |
| .597 | 4.070 | -9.99000 | -9.96000 | .00000 | -.02474 | -.23100 | -.22200 | .00450 | 15.34530 | .02354 | .01253 |
| .596 | 6.110 | -9.98000 | -9.97000 | .00000 | -.02583 | -.23200 | -.22300 | .00450 | 15.36360 | .02360 | .01261 |
| | GRADIENT | .00139 | .00069 | -.00092 | -.00015 | .00134 | .00062 | -.00006 | -.00154 | -.00014 | -.00003 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0 RN/L = 4.500 ELEVON = -10.000
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0 AILRON = .000 ALPHA = 20.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0 GRIT = 1.000 SPDBRK = 25.000
 SCALE = .0150 RUDDER = .000 BDFLAP = .000

PARAMETR C DATA

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|-----------|----------|---------|---------|---------|---------|---------|----------|---------|---------|
| .796 | -6.190 | -10.01000 | -9.99000 | .00000 | .01192 | -.27000 | -.26100 | .01390 | 15.31430 | .02743 | -.01472 |
| .796 | -4.120 | -10.00000 | -9.99000 | .00000 | .01646 | -.27700 | -.26700 | .01560 | 15.27890 | .02821 | .01509 |
| .796 | -2.070 | -10.00000 | -9.99000 | .00000 | .01811 | -.28200 | -.26600 | .00990 | 15.23910 | .02874 | .01502 |
| .796 | -1.020 | -10.00000 | -9.99000 | .00000 | .01869 | -.28200 | -.26500 | .01300 | 15.23740 | .02867 | .01494 |
| .797 | -.500 | -10.00000 | -9.98000 | .00000 | .01931 | -.27900 | -.26400 | .01050 | 15.24230 | .02835 | .01487 |
| .796 | .000 | -10.00000 | -9.98000 | .00000 | .01934 | -.27600 | -.26500 | .01170 | 15.24930 | .02808 | .01493 |
| .797 | .500 | -10.00000 | -9.98000 | .00000 | .01930 | -.27500 | -.26700 | .01020 | 15.26190 | .02803 | .01507 |
| .797 | 1.010 | -9.99000 | -9.98000 | .00000 | .01895 | -.27800 | -.26700 | .01130 | 15.25180 | .02827 | .01508 |
| .796 | 2.210 | -9.99000 | -9.99000 | .00000 | .01743 | -.28500 | -.26800 | .01320 | 15.24770 | .02901 | .01514 |
| .796 | 4.130 | -10.00000 | -9.97000 | .00000 | .01529 | -.26700 | -.26300 | .01170 | 15.31740 | .02717 | .01482 |
| .796 | 6.190 | -10.00000 | -9.98000 | .00000 | .01288 | -.25800 | -.25400 | .01200 | 15.33410 | .02623 | .01436 |
| GRADIENT | | .00069 | .00246 | -.00090 | -.00014 | .00088 | .00019 | -.00024 | .00437 | -.00009 | -.00001 |

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|-----------|--------|--------|---------|---------|---------|----------|---------|---------|
| .896 | -6.230 | -9.95000 | -9.97000 | .00000 | .03021 | -.34700 | -.33400 | .02410 | 15.36350 | .03529 | .01882 |
| .896 | -4.140 | -9.95000 | -9.97000 | .01000 | .03373 | -.34700 | -.33600 | .01820 | 15.39920 | .03535 | .01897 |
| .897 | -2.070 | -9.95000 | -9.99000 | .02000 | .03672 | -.34700 | -.33900 | .01510 | 15.42300 | .03531 | .01914 |
| .897 | -1.030 | -9.96000 | -10.00000 | .01000 | .03705 | -.34400 | -.33800 | .01540 | 15.41550 | .03504 | .01909 |
| .897 | -.500 | -9.95000 | -9.99000 | .02000 | .03751 | -.34200 | -.33800 | .01100 | 15.41640 | .03484 | .01905 |
| .896 | .010 | -9.95000 | -9.99000 | .01000 | .03716 | -.33600 | -.32800 | .01120 | 15.34370 | .03423 | .01851 |
| .896 | .520 | -9.95000 | -9.99000 | .02000 | .03695 | -.33800 | -.32900 | .01010 | 15.34910 | .03442 | .01857 |
| .896 | 1.040 | -9.95000 | -9.99000 | .02000 | .03738 | -.33800 | -.33400 | .01790 | 15.41520 | .03437 | .01883 |
| .897 | 2.090 | -9.96000 | -9.99000 | .01000 | .03641 | -.33500 | -.33300 | .01470 | 15.39610 | .03436 | .01878 |
| .896 | 4.160 | -9.95000 | -9.99000 | .02000 | .03445 | -.33500 | -.32900 | .01480 | 15.39010 | .03412 | .01856 |
| .896 | 6.200 | -9.93000 | -10.01000 | .03000 | .02983 | -.34300 | -.33500 | .01590 | 15.35870 | .03495 | .01890 |
| GRADIENT | | -.00023 | -.00159 | .00068 | .00005 | .00168 | .00110 | -.00028 | -.00281 | -.00017 | -.00006 |

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK066) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 169/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|-----------|--------|---------|---------|---------|---------|----------|--------|--------|
| .947 | -6.180 | -9.97000 | -10.04000 | .03000 | .03893 | -.38900 | -.36800 | .01500 | 15.89090 | .03959 | .02074 |
| .947 | -4.110 | -9.97000 | -10.05000 | .04000 | .04083 | -.38500 | -.36200 | .00760 | 15.87850 | .03917 | .02042 |
| .946 | -2.060 | -9.98000 | -10.04000 | .03000 | .04287 | -.36800 | -.34000 | .01020 | 15.88160 | .03748 | .01917 |
| .946 | -1.020 | -9.98000 | -10.04000 | .03000 | .04290 | -.36600 | -.33800 | .01290 | 15.88120 | .03727 | .01908 |
| .948 | .000 | -9.98000 | -10.05000 | .08000 | .04103 | -.38200 | -.34600 | .01050 | 15.89420 | .03882 | .01953 |
| .947 | 1.030 | -9.90000 | -10.06000 | .08000 | .04024 | -.39000 | -.35000 | .01290 | 15.89530 | .03916 | .01972 |
| .947 | 1.030 | -9.89000 | -10.05000 | .08000 | .04050 | -.39200 | -.35600 | .00720 | 15.88460 | .03967 | .02007 |
| .947 | 2.070 | -9.90000 | -10.04000 | .07000 | .04034 | -.39000 | -.36100 | .01050 | 15.88870 | .03959 | .02036 |
| .947 | 4.120 | -9.88000 | -10.05000 | .08000 | .03916 | -.39000 | -.37000 | .00790 | 15.86220 | .03972 | .02088 |
| .947 | 6.190 | -9.86000 | -10.06000 | .10000 | .03774 | -.38800 | -.36700 | .00760 | 15.84110 | .03942 | .02072 |
| | GRADIENT | .01483 | -.00034 | .00718 | -.00033 | -.00210 | -.00222 | -.00001 | -.00109 | .00022 | .00013 |

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 AILRON = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK067) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 227/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|-----------|--------|--------|---------|---------|---------|----------|--------|--------|
| 1.197 | -6.190 | -9.93000 | -10.01000 | .03000 | .06770 | -.40600 | -.40300 | .02980 | 16.38500 | .04129 | .02273 |
| 1.197 | -4.120 | -9.91000 | -10.04000 | .06000 | .06884 | -.40800 | -.40700 | .02150 | 16.39930 | .04155 | .02296 |
| 1.197 | -2.060 | -9.91000 | -10.03000 | .05000 | .06995 | -.41300 | -.40900 | .01270 | 16.40410 | .04202 | .02308 |
| 1.197 | -1.020 | -9.91000 | -10.03000 | .05000 | .06969 | -.41500 | -.40900 | .01090 | 16.39240 | .04219 | .02309 |
| 1.196 | -.500 | -9.89000 | -10.02000 | .05000 | .06975 | -.41500 | -.40900 | .01340 | 16.39470 | .04216 | .02307 |
| 1.196 | .000 | -9.86000 | -10.02000 | .07000 | .07006 | -.41500 | -.41000 | .00950 | 16.40310 | .04219 | .02310 |
| 1.197 | .510 | -9.87000 | -10.02000 | .07000 | .07009 | -.41400 | -.41000 | .00950 | 16.40010 | .04214 | .02311 |
| 1.198 | 1.040 | -9.88000 | -10.01000 | .06000 | .07033 | -.41300 | -.40900 | .00860 | 16.40020 | .04203 | .02308 |
| 1.197 | 2.080 | -9.84000 | -10.02000 | .08000 | .06997 | -.41300 | -.41000 | .01150 | 16.39180 | .04204 | .02314 |
| 1.196 | 4.130 | -9.85000 | -10.02000 | .08000 | .06991 | -.41300 | -.40300 | .01060 | 16.36830 | .04199 | .02306 |
| 1.198 | 6.200 | -9.88000 | -10.03000 | .07000 | .06755 | -.40400 | -.40000 | .01250 | 16.37120 | .04111 | .02258 |
| | GRADIENT | .00958 | -.00274 | .00353 | .00003 | -.00040 | -.00024 | -.00115 | -.00315 | .00004 | .00001 |

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 AILRON = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO RN/L = 4.500 ELEVON = .000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO AILRON = .000 ALPHA = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO GRIT = 25.000 SPDBRK = .000
 SCALE = .0150 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 134/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|--------|--------|---------|---------|---------|----------|--------|--------|
| .597 | -6.120 | .04000 | .00000 | .02000 | .02606 | -.22100 | -.21300 | .00620 | 20.02570 | .02253 | .01200 |
| .597 | -4.070 | .03000 | .00000 | .01000 | .02874 | -.21500 | -.20600 | .00680 | 19.97010 | .02193 | .01162 |
| .596 | -2.040 | .01000 | -.01000 | .01000 | .03131 | -.21000 | -.20200 | .00490 | 20.34080 | .02134 | .01139 |
| .597 | -1.020 | .00000 | -.04000 | .01000 | .03121 | -.20700 | -.19900 | .00680 | 21.23900 | .02110 | .01121 |
| .596 | -.500 | .00000 | -.01000 | .01000 | .03154 | -.20600 | -.19900 | .00640 | 20.63500 | .02099 | .01122 |
| .597 | .000 | .04000 | -.02000 | .03000 | .03178 | -.20700 | -.19900 | .00750 | 20.26490 | .02109 | .01125 |
| .597 | .490 | .00000 | .00000 | .00000 | .03191 | -.20800 | -.20000 | .00510 | 20.56880 | .02113 | .01129 |
| .597 | 1.010 | .00000 | .00000 | .00000 | .03185 | -.20800 | -.20000 | .00230 | 20.19990 | .02118 | .01131 |
| .597 | 2.040 | .01000 | -.04000 | .03000 | .03147 | -.21100 | -.20400 | .00400 | 20.25040 | .02147 | .01152 |
| .597 | 4.070 | .02000 | -.02000 | .02000 | .02913 | -.21900 | -.21100 | .00450 | 20.77800 | .02230 | .01193 |
| .596 | 6.110 | .02000 | -.01000 | .02000 | .02693 | -.22600 | -.21800 | .00600 | 19.36840 | .02304 | .01230 |
| | GRADIENT | -.03092 | -.00221 | .00151 | .00006 | -.00046 | -.00059 | -.00037 | .04574 | .00004 | .00004 |

RUN NO. 65/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|--------|---------|---------|--------|----------|--------|--------|
| .896 | -6.170 | .07000 | .01000 | .02000 | .04273 | -.25700 | -.25100 | .00410 | 20.73020 | .02621 | .01413 |
| .897 | -4.110 | .06000 | .00000 | .03000 | .04251 | -.24700 | -.23300 | .00610 | 21.77220 | .02513 | .01312 |
| .896 | -2.060 | .06000 | -.02000 | .04000 | .04317 | -.23600 | -.21800 | .00440 | 22.06730 | .02400 | .01233 |
| .896 | -1.030 | .05000 | -.01000 | .03000 | .04364 | -.23500 | -.22100 | .00570 | 22.51130 | .02392 | .01248 |
| .896 | -.500 | .04000 | -.02000 | .03000 | .04418 | -.23200 | -.22200 | .00740 | 22.05890 | .02365 | .01251 |
| .897 | .000 | .04000 | .02000 | .01000 | .04441 | -.23200 | -.22200 | .00730 | 22.51200 | .02363 | .01251 |
| .897 | .500 | .04000 | .00000 | .02000 | .04463 | -.23100 | -.22200 | .00560 | 22.09050 | .02357 | .01255 |
| .896 | 1.030 | .03000 | .02000 | .01000 | .04452 | -.23300 | -.22300 | .00630 | 21.77710 | .02368 | .01259 |
| .896 | 2.060 | .03000 | .01000 | .01000 | .04361 | -.24000 | -.22900 | .00640 | 22.03590 | .02443 | .01291 |
| .897 | 4.110 | .03000 | .00000 | .01000 | .04346 | -.24900 | -.24600 | .00920 | 20.63790 | .02537 | .01385 |
| .897 | 6.180 | .04000 | .00000 | .02000 | .04222 | -.26100 | -.25800 | .00760 | 20.23770 | .02661 | .01457 |
| | GRADIENT | -.00389 | .00229 | -.00378 | .00013 | -.00031 | -.00174 | .00037 | -.12178 | .00004 | .00010 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|--------|--------|--------|--------|---------|---------|--------|-----------|--------|--------|
| .945 | -6.170 | .01000 | .02000 | .00000 | .05920 | -.30000 | -.28800 | .00520 | 22.40250 | .03051 | .01626 |
| .946 | -4.110 | .01000 | .03000 | .00000 | .05933 | -.28600 | -.26400 | .00680 | 22.62480 | .02908 | .01489 |
| .946 | -2.050 | .00000 | .00000 | .00000 | .06029 | -.27500 | -.25200 | .00500 | 22.21690 | .02795 | .01419 |
| .946 | -1.020 | .00000 | .00000 | .00000 | .06085 | -.27200 | -.25200 | .00470 | 22.25330 | .02767 | .01420 |
| .946 | -.510 | .00000 | .01000 | .00000 | .06100 | -.27100 | -.25300 | .00480 | 22.78060 | .02759 | .01430 |
| .946 | .510 | .00000 | .00000 | .00000 | .06128 | -.27000 | -.25500 | .00560 | 22.51250 | .02752 | .01437 |
| .946 | 1.030 | .01000 | .02000 | .00000 | .06164 | -.26800 | -.25400 | .00480 | 22.76940 | .02733 | .01431 |
| .945 | 2.050 | .00000 | .01000 | .00000 | .06160 | -.27000 | -.25500 | .00540 | 23.41860 | .02749 | .01436 |
| .945 | 4.150 | .01000 | .03000 | .00000 | .06086 | -.27400 | -.26300 | .00450 | 22.46780 | .02789 | .01482 |
| .945 | 6.180 | .02000 | .03000 | .00000 | .05942 | -.29000 | -.28300 | .00710 | -16.37670 | .02951 | .01595 |
| | GRADIENT | .00034 | .00081 | .00000 | .00005 | -.00025 | -.00233 | .00470 | 21.81990 | .03123 | .01701 |
| | | | | | | | | | -3.53888 | .00003 | .00013 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000
 AILRON = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|---------|---------|--------|---------|---------|---------|----------|---------|---------|
| 1.197 | -6.170 | 1.36000 | -.24000 | .80000 | .09446 | -.35700 | -.35000 | .01490 | 22.18920 | .03637 | .01973 |
| 1.197 | -4.110 | .04000 | -.04000 | .04000 | .09579 | -.34600 | -.33600 | .01460 | 22.61200 | .03522 | .01894 |
| 1.199 | -2.050 | .05000 | -.04000 | .05000 | .09571 | -.33800 | -.32700 | .01930 | 23.25220 | .03436 | .01843 |
| 1.197 | -1.020 | .05000 | -.05000 | .05000 | .09546 | -.33100 | -.31800 | .01140 | 23.15700 | .03363 | .01793 |
| 1.198 | -.500 | .04000 | -.06000 | .05000 | .09579 | -.33000 | -.31600 | .01290 | 23.05340 | .03355 | .01782 |
| 1.198 | .000 | .03000 | -.03000 | .03000 | .09576 | -.32900 | -.31400 | .01210 | 22.99310 | .03345 | .01772 |
| 1.197 | .500 | .03000 | -.03000 | .03000 | .09568 | -.32900 | -.31500 | .01580 | 23.57030 | .03349 | .01777 |
| 1.198 | 1.030 | .03000 | -.03000 | .03000 | .09517 | -.32800 | -.31600 | .01350 | 22.85480 | .03342 | .01782 |
| 1.196 | 2.050 | .03000 | -.01000 | .02000 | .09598 | -.33200 | -.32300 | .01390 | 23.06080 | .03378 | .01821 |
| 1.197 | 4.100 | .03000 | -.05000 | .04000 | .09688 | -.33900 | -.33300 | .01640 | 22.76190 | .03451 | .01867 |
| 1.198 | 6.170 | .01000 | -.05000 | .03000 | .09597 | -.35200 | -.34700 | .02060 | 21.90270 | .03578 | .01954 |
| | GRADIENT | -.00240 | .00125 | -.00205 | .00013 | .00100 | .00070 | -.00000 | .00391 | -.00010 | -.00004 |

(SUK070) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 94/ 0 RN/L = 8.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|--------|---------|---------|---------|----------|--------|--------|
| .581 | -6.210 | -.01000 | .08000 | -.05000 | .02344 | -.23100 | -.22500 | .00970 | 21.36380 | .02356 | .01268 |
| .598 | -4.150 | .00000 | .06000 | -.03000 | .02628 | -.22700 | -.22100 | .00720 | 22.09840 | .02308 | .01245 |
| .598 | -2.090 | .00000 | .07000 | -.04000 | .02917 | -.22200 | -.21700 | .00650 | 22.28170 | .02256 | .01226 |
| .598 | -1.040 | .00000 | .08000 | -.04000 | .03003 | -.21900 | -.21500 | .00770 | 21.18960 | .02232 | .01213 |
| .599 | -.510 | .00000 | .06000 | -.03000 | .02983 | -.21800 | -.21300 | .00890 | 22.16190 | .02218 | .01201 |
| .599 | .000 | .00000 | .07000 | -.03000 | .03027 | -.21900 | -.21400 | .00870 | 21.10730 | .02226 | .01207 |
| .599 | .500 | .00000 | .06000 | -.02000 | .03034 | -.21900 | -.21400 | .00930 | 20.65690 | .02231 | .01206 |
| .599 | 1.020 | .00000 | .06000 | -.03000 | .03015 | -.21900 | -.21400 | .00830 | 21.18970 | .02228 | .01207 |
| .598 | 2.070 | .00000 | .05000 | -.02000 | .03319 | -.22000 | -.21600 | .00530 | 20.67560 | .02243 | .01218 |
| .598 | 4.130 | .02000 | .07000 | -.02000 | .02773 | -.22900 | -.22300 | .00650 | 21.97500 | .02333 | .01259 |
| .598 | 6.210 | .03000 | .06000 | -.01000 | .02456 | -.23900 | -.23300 | .00670 | 21.14190 | .02419 | .01313 |
| | GRADIENT | .00182 | -.00046 | .00216 | .00019 | -.00010 | -.00012 | -.00010 | -.10132 | .00002 | .00001 |

RUN NO. 57/ 0 RN/L = 7.62 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|--------|---------|--------|---------|---------|--------|----------|--------|--------|
| .900 | -2.100 | .05000 | .00000 | .02000 | .04419 | -.23300 | -.21500 | .00490 | 25.29500 | .02368 | .01213 |
| .900 | -1.040 | .05000 | .00000 | .02000 | .04514 | -.22900 | -.21600 | .00460 | 23.55430 | .02332 | .01217 |
| .899 | -.510 | .06000 | .03000 | .01000 | .04567 | -.22700 | -.21400 | .00730 | 23.31680 | .02308 | .01209 |
| .900 | .000 | .05000 | .02000 | .01000 | .04571 | -.22700 | -.21500 | .00580 | 22.73570 | .02315 | .01215 |
| .900 | .520 | .06000 | .01000 | .02000 | .04511 | -.22600 | -.21400 | .00580 | 22.39900 | .02303 | .01208 |
| .900 | 1.060 | .05000 | .03000 | .01000 | .04567 | -.22900 | -.21600 | .00560 | 23.08680 | .02332 | .01217 |
| .900 | 2.110 | .02000 | .03000 | .00000 | .04534 | -.23500 | -.22400 | .00590 | 21.47330 | .02396 | .01263 |
| | GRADIENT | -.00726 | .00727 | -.00409 | .00028 | -.00032 | -.00163 | .00020 | -.77640 | .00005 | .00005 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

4.500 ELEVON = .000
 .000 ALPHA = 5.000
 1.000 SPOBRK = 25.000
 .000 BOFLAP = .000

RN/L =
 AILRON =
 GRIT =
 RUDDER =

RUN NO. 135/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAI | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|--------|---------|---------|---------|----------|---------|--------|
| .596 | -6.120 | .00000 | -.02000 | .01000 | .01493 | -.22200 | -.21000 | .00830 | 15.05050 | -.02263 | .01186 |
| .596 | -4.070 | .01000 | -.02000 | .02000 | .01734 | -.21600 | -.20400 | .00810 | 14.87500 | .02195 | .01151 |
| .596 | -2.040 | .01000 | -.02000 | .02000 | .01944 | -.21000 | -.20000 | .00880 | 14.76020 | .02137 | .01127 |
| .598 | -1.010 | .00000 | .00000 | .00000 | .02015 | -.20700 | -.19500 | .00570 | 14.67990 | .02107 | .01101 |
| .597 | -.490 | .00000 | -.01000 | .01000 | .02057 | -.20700 | -.19300 | .00570 | 14.61290 | .02104 | .01088 |
| .597 | .000 | .00000 | -.01000 | .00000 | .02016 | -.20500 | -.18900 | .00550 | 14.57270 | .02087 | .01068 |
| .597 | .490 | .00000 | -.01000 | .00000 | .02041 | -.20600 | -.19300 | .00580 | 14.62900 | .02100 | .01088 |
| .596 | 1.010 | .00000 | .00000 | .00000 | .01994 | -.20700 | -.19500 | .00730 | 14.61630 | .02108 | .01102 |
| .597 | 2.040 | .00000 | .00000 | .00000 | .01932 | -.21100 | -.20100 | .00450 | 14.79200 | .02144 | .01136 |
| .596 | 4.070 | .00000 | -.04000 | .01000 | .01820 | -.21500 | -.20700 | .00620 | 14.94290 | .02192 | .01169 |
| .597 | 6.110 | .00000 | .01000 | -.01000 | .01618 | -.22300 | -.21400 | .00570 | 15.06450 | .02273 | .01207 |
| | GRADIENT | -.00139 | -.00092 | -.00196 | .00007 | .00006 | -.00032 | -.00034 | .00647 | .00000 | .00002 |

RUN NO. 56/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAI | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|--------|---------|---------|---------|----------|--------|--------|
| .897 | -6.180 | .08000 | .00000 | .04000 | .03893 | -.25200 | -.24600 | .00590 | 15.64380 | .02567 | .01391 |
| .897 | -4.110 | .05000 | .00000 | .03000 | .03985 | -.23600 | -.22300 | .00590 | 15.54320 | .02405 | .01259 |
| .896 | -2.060 | .07000 | .00000 | .04000 | .04213 | -.22600 | -.21000 | .00590 | 15.38980 | .02304 | .01187 |
| .897 | -1.020 | .07000 | -.02000 | .05000 | .04289 | -.22600 | -.21000 | .00360 | 15.32140 | .02303 | .01186 |
| .897 | -.500 | .06000 | .00000 | .03000 | .04291 | -.22700 | -.21000 | .00360 | 15.30890 | .02309 | .01187 |
| .896 | .000 | .04000 | .00000 | .01000 | .04253 | -.22600 | -.21000 | .00440 | 15.28960 | .02298 | .01184 |
| .896 | .510 | .04000 | .00000 | .01000 | .04283 | -.22600 | -.21000 | .00503 | 15.32190 | .02303 | .01187 |
| .897 | 1.030 | .04000 | .00000 | .02000 | .04281 | -.23000 | -.20900 | .00390 | 15.34530 | .02306 | .01181 |
| .896 | 2.070 | .04000 | .00000 | .02000 | .04145 | -.23000 | -.21400 | .00420 | 15.36810 | .02340 | .01208 |
| .896 | 4.110 | .05000 | .00000 | .02000 | .04026 | -.24200 | -.23100 | .00530 | 15.52590 | .02465 | .01306 |
| .895 | 6.180 | .04000 | .01000 | .01000 | .03876 | -.25400 | -.24900 | .00760 | 15.58440 | .02586 | .01406 |
| | GRADIENT | -.00223 | .00046 | -.00274 | .00000 | -.00072 | -.00089 | -.00012 | -.00099 | .00007 | .00005 |

(SUK071) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BRFF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 157/ 0
 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|--------|---------|---------|--------|---------|---------|---------|----------|---------|--------|
| .945 | -6.170 | .01000 | .01000 | .00000 | .05463 | -.29900 | -.28400 | .00510 | 15.60320 | -.03038 | .01601 |
| .946 | -4.100 | .00000 | .01000 | .00000 | .05579 | -.28100 | -.26000 | .00830 | 15.79270 | .02859 | .01464 |
| .946 | -2.060 | .00000 | .03000 | -.02000 | .05688 | -.26700 | -.25000 | .00540 | 15.77910 | .02715 | .01408 |
| .945 | -1.020 | .00000 | .01000 | -.01000 | .05769 | -.26100 | -.24700 | .00470 | 15.71900 | .02658 | .01394 |
| .946 | -.500 | .00000 | .00000 | .00000 | .05853 | -.26000 | -.24800 | .00420 | 15.71310 | .02649 | .01388 |
| .945 | .000 | .00000 | .00000 | .00000 | .05859 | -.25800 | -.24600 | .00860 | 15.69240 | .02625 | .01389 |
| .946 | .500 | .00000 | .01000 | .00000 | .05876 | -.25800 | -.24800 | .00540 | 15.71170 | .02631 | .01397 |
| .945 | 1.020 | .00000 | .00000 | .00000 | .05818 | -.29000 | -.24900 | .00470 | 15.71460 | .02638 | .01405 |
| .944 | 2.070 | .00000 | .00000 | .00000 | .05702 | -.26600 | -.25600 | .00470 | 15.76310 | .02706 | .01445 |
| .947 | 4.110 | .01000 | .00000 | .00000 | .05646 | -.28900 | -.28100 | .00620 | 15.70170 | .02939 | .01586 |
| .945 | 6.180 | .02000 | .03000 | .00000 | .05545 | -.30200 | -.29900 | .01320 | 15.53430 | .03074 | .01684 |
| | GRADIENT | .00092 | -.00241 | .00115 | .00008 | -.00062 | -.00225 | -.00026 | -.00918 | .00006 | .00013 |

RUN NO. 283/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|--------|---------|---------|---------|----------|--------|--------|
| .977 | -6.170 | .00000 | -.08000 | .04000 | .06642 | -.35800 | -.34600 | .00690 | 15.66790 | .03547 | .01950 |
| .976 | -4.100 | .00000 | -.10000 | .04000 | .06606 | -.34100 | -.31700 | .00770 | 15.75960 | .03466 | .01787 |
| .977 | -2.060 | .00000 | -.08000 | .03000 | .06644 | -.33100 | -.31100 | .00560 | 15.77170 | .03367 | .01753 |
| .977 | -1.030 | .00000 | -.12000 | .05000 | .06675 | -.32800 | -.31100 | .00710 | 15.67110 | .03336 | .01754 |
| .977 | -.500 | .01000 | -.09000 | .03000 | .06741 | -.32700 | -.31000 | .00540 | 15.65830 | .03324 | .01748 |
| .977 | .000 | .00000 | -.11000 | .05000 | .06730 | -.32500 | -.30700 | .00720 | 15.68420 | .03309 | .01733 |
| .977 | .500 | .00000 | -.12000 | .05000 | .06677 | -.33000 | -.31200 | .00560 | 15.67780 | .03355 | .01761 |
| .977 | 1.030 | -.01000 | -.10000 | .04000 | .06710 | -.33100 | -.31500 | .00600 | 15.70910 | .03365 | .01775 |
| .976 | 2.060 | -.02000 | -.13000 | .05000 | .06619 | -.33700 | -.32300 | .00570 | 15.71290 | .03431 | .01821 |
| .978 | 4.110 | -.03000 | -.11000 | .03000 | .06753 | -.34900 | -.34200 | .00530 | 15.72200 | .03547 | .01931 |
| .977 | 6.160 | -.03000 | -.13000 | .04000 | .06648 | -.36400 | -.36100 | .00810 | 15.61980 | .03705 | .02034 |
| | GRADIENT | -.00379 | -.00309 | -.00000 | .00012 | -.00111 | -.00296 | -.00024 | -.00505 | .00011 | .00017 |

TABLATED SOURCE DATA, CALSPAN T19-103 (LA70)

DATE 04 MAY 76

(SUK071) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 237/ 0 RN/L = 4.53 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|---------|--------|--------|---------|---------|---------|----------|--------|--------|
| 1.048 | -6.170 | .0000 | -.0400 | .0100 | .08296 | -.43200 | -.42100 | .00520 | 16.11050 | .04330 | .02375 |
| 1.049 | -4.110 | .0000 | -.0400 | .0100 | .08370 | -.42200 | -.40800 | .00570 | 16.13020 | .04295 | .02301 |
| 1.047 | -2.060 | .0000 | -.0400 | .0100 | .08394 | -.41700 | -.40300 | .00450 | 16.09540 | .04244 | .02275 |
| 1.048 | -1.020 | -.0200 | -.0400 | .0000 | .08418 | -.41500 | -.40300 | .00410 | 16.07020 | .04218 | .02274 |
| 1.046 | -.500 | -.0100 | -.0300 | .0000 | .08397 | -.41500 | -.40300 | .00310 | 16.03730 | .04218 | .02273 |
| 1.048 | .000 | -.0200 | -.0300 | .0000 | .08449 | -.41200 | -.40100 | .00420 | 16.06450 | .04193 | .02261 |
| 1.048 | .510 | -.0100 | -.0400 | .0100 | .08478 | -.41400 | -.40400 | .00400 | 16.07730 | .04212 | .02278 |
| 1.046 | 1.040 | -.0100 | -.0500 | .0100 | .08437 | -.41600 | -.40600 | .00290 | 16.07200 | .04231 | .02286 |
| 1.047 | 2.070 | -.0100 | -.0500 | .0100 | .08499 | -.41900 | -.41200 | .00450 | 16.06760 | .04260 | .02320 |
| 1.047 | 4.120 | -.0100 | -.0600 | .0200 | .08455 | -.42400 | -.41900 | .00570 | 16.12640 | .04313 | .02363 |
| 1.048 | 6.180 | -.0100 | -.0600 | .0200 | .08397 | -.43200 | -.42900 | .00680 | 16.09130 | .04395 | .02416 |
| | GRADIENT | -.00114 | -.00263 | .00126 | .00014 | -.00029 | -.00150 | -.00002 | -.00113 | .00003 | .00008 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK072) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000
 AILRON = .000 ALPHA = 5.000
 RUDDER = .000 SPDBRK = 25.000
 BDFLAP = .000

RUN NO. 223/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|--------|---------|--------|---------|---------|---------|----------|---------|--------|
| 1.197 | -6.160 | .0000 | -.0200 | .0100 | .08965 | -.35100 | -.33900 | .02070 | 16.46060 | .03569 | .01912 |
| 1.199 | -4.100 | .0100 | -.0200 | .0200 | .09113 | -.34800 | -.33100 | .01920 | 16.48370 | .03541 | .01864 |
| 1.197 | -2.060 | .0000 | -.0800 | .0400 | .09104 | -.34400 | -.32000 | .02100 | 16.43260 | .03504 | .01804 |
| 1.197 | -1.030 | .0000 | -.0400 | .0200 | .09198 | -.33400 | -.31700 | .02160 | 16.45240 | .03403 | .01789 |
| 1.198 | -.500 | .0000 | -.0100 | .0100 | .09234 | -.33300 | -.31800 | .01810 | 16.42500 | .03392 | .01792 |
| 1.197 | .000 | .0000 | -.0600 | .0300 | .09257 | -.33400 | -.32000 | .01750 | 16.43600 | .03400 | .01803 |
| 1.198 | .500 | .0000 | -.0500 | .0300 | .09247 | -.33500 | -.32200 | .01460 | 16.40460 | .03405 | .01815 |
| 1.198 | 1.030 | .0000 | -.0400 | .0200 | .09287 | -.33500 | -.32200 | .00870 | 16.39790 | .03411 | .01818 |
| 1.197 | 2.060 | .0000 | -.0200 | .0100 | .09311 | -.33900 | -.32800 | .01360 | 16.41570 | .03451 | .01851 |
| 1.197 | 4.110 | .0000 | -.0000 | .0000 | .09236 | -.34500 | -.33400 | .01960 | 16.36810 | .03513 | .01886 |
| 1.198 | 6.170 | .0000 | -.0400 | .0200 | .09172 | -.34700 | -.33900 | .01790 | 16.39190 | .03526 | .01910 |
| | GRADIENT | -.00092 | .00415 | -.00299 | .00023 | .00046 | -.00080 | -.00064 | -.01285 | -.00005 | .00005 |

(SUK073) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 7.86 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|--------|---------|---------|---------|--------|----------|--------|---------|
| .900 | -2.100 | .06000 | -.13000 | .09000 | .04277 | -.23000 | -.21100 | .00510 | 15.29160 | .02342 | -.01190 |
| .900 | -1.040 | .06000 | -.13000 | .09000 | .04333 | -.22900 | -.21100 | .00810 | 15.22120 | .02332 | -.01191 |
| .900 | -.510 | .07000 | -.12000 | .09000 | .04350 | -.22900 | -.21000 | .00520 | 15.20360 | .02328 | -.01185 |
| .900 | .000 | .06000 | -.10000 | .08000 | .04381 | -.22900 | -.20900 | .00510 | 15.20500 | .02330 | -.01181 |
| .900 | .530 | .05000 | -.12000 | .08000 | .04373 | -.22900 | -.20900 | .00540 | 15.20210 | .02328 | -.01180 |
| .900 | 1.070 | .05000 | -.13000 | .09000 | .04352 | -.22900 | -.21000 | .00470 | 15.24410 | .02336 | -.01182 |
| .899 | 2.130 | .06000 | -.12000 | .09000 | .04312 | -.23200 | -.21300 | .00510 | 15.33860 | .02365 | -.01202 |
| .900 | 4.200 | .06000 | -.12000 | .09000 | .04111 | -.24600 | -.23300 | .00840 | 15.57650 | .02502 | -.01314 |
| .899 | 6.320 | .05000 | -.12000 | .08000 | .04003 | -.25900 | -.25200 | .00920 | 15.66840 | .02640 | -.01422 |
| | GRADIENT | -.00058 | .00096 | .00020 | -.00027 | -.00238 | -.00316 | .00026 | .04963 | .00024 | .00018 |

(SUK074) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|--------|---------|--------|---------|---------|---------|--------|----------|--------|---------|
| .597 | -6.110 | .00000 | -.02000 | .01000 | -.01429 | -.22700 | -.21100 | .00700 | 15.79410 | .02307 | -.01192 |
| .597 | -4.070 | .00000 | -.02000 | .00000 | -.01427 | -.21700 | -.19900 | .00660 | 15.72020 | .02214 | -.01124 |
| .597 | -2.040 | .00000 | -.00000 | .00000 | -.01101 | -.21300 | -.19500 | .00250 | 15.66280 | .02166 | -.01102 |
| .597 | -1.010 | .00000 | -.00000 | .00000 | -.01112 | -.21300 | -.19400 | .00340 | 15.63870 | .02167 | -.01093 |
| .597 | -.500 | .05000 | -.04000 | .05000 | -.01152 | -.21200 | -.19200 | .00510 | 15.59710 | .02158 | -.01083 |
| .597 | .000 | .02000 | -.04000 | .03000 | -.01161 | -.21300 | -.19300 | .00420 | 15.60940 | .02166 | -.01088 |
| .597 | .490 | .02000 | -.01000 | .02000 | -.01140 | -.21200 | -.19500 | .00450 | 15.60250 | .02157 | -.01098 |
| .597 | 1.010 | .02000 | -.01000 | .00000 | -.01211 | -.21200 | -.19300 | .00500 | 15.60820 | .02160 | -.01090 |
| .597 | 2.050 | .00000 | -.02000 | .01000 | -.00906 | -.21500 | -.20000 | .00510 | 15.66450 | .02192 | -.01128 |
| .596 | 4.070 | .01000 | -.04000 | .03000 | -.01480 | -.21700 | -.20300 | .00640 | 15.71230 | .02211 | -.01147 |
| .596 | 6.120 | .02000 | -.00000 | .00000 | -.01510 | -.22800 | -.21600 | .00450 | 15.74570 | .02321 | -.01217 |
| | GRADIENT | .00150 | -.00221 | .00289 | .00002 | -.00007 | -.00061 | .00009 | -.00126 | .00001 | .00003 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = .0000 ELEVON = .000
 AILRON = .0000 ALPHA = 10.000
 GRIT = 1.0000 SPOBRK = 25.000
 RUDDER = .0000 BDFLAP = .000

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|--------|---------|---------|--------|----------|--------|--------|
| .896 | -6.190 | .07000 | -.02000 | .05000 | .03495 | -.25400 | -.24400 | .00940 | 15.98020 | .02590 | .01374 |
| .896 | -4.110 | .07000 | .00000 | .04000 | .03596 | -.24600 | -.23100 | .00840 | 15.92570 | .02508 | .01302 |
| .895 | -2.060 | .07000 | .00000 | .03000 | .03704 | -.24000 | -.22200 | .00970 | 15.88520 | .02444 | .01252 |
| .896 | -1.020 | .06000 | .00000 | .03000 | .03725 | -.24100 | -.22100 | .00990 | 15.86820 | .02452 | .01246 |
| .895 | -.500 | .07000 | .00000 | .04000 | .03758 | -.24000 | -.22100 | .00990 | 15.85400 | .02440 | .01249 |
| .896 | .000 | .05000 | .00000 | .03000 | .03796 | -.23900 | -.22100 | .00820 | 15.85230 | .02430 | .01248 |
| .896 | .510 | .05000 | .00000 | .02000 | .03771 | -.24000 | -.22200 | .00880 | 15.85550 | .02446 | .01252 |
| .895 | 1.030 | .04000 | .00000 | .02000 | .03732 | -.24300 | -.22300 | .00880 | 15.86760 | .02459 | .01259 |
| .896 | 2.070 | .04000 | .00000 | .02000 | .03528 | -.24600 | -.23600 | .01600 | 15.88400 | .02472 | .01276 |
| .896 | 4.130 | .04000 | .00000 | .04000 | .03552 | -.25600 | -.24900 | .01000 | 15.93490 | .02507 | .01333 |
| .897 | 6.190 | .08000 | .00000 | .04000 | .00005 | -.00016 | -.00070 | .01000 | 15.96340 | .02602 | .01403 |
| | GRADIENT | -.00479 | .00000 | -.00274 | .00005 | -.00016 | -.00070 | .00092 | .00080 | .00001 | .00004 |

RUN NO. 67/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|--------|----------|--------|--------|
| .945 | -6.170 | .00000 | -.06000 | .03000 | .04699 | -.30600 | -.28400 | .00710 | 16.25430 | .03117 | .01603 |
| .946 | -4.100 | .00000 | -.05000 | .03000 | .04731 | -.29200 | -.26600 | .00590 | 16.32620 | .02974 | .01501 |
| .946 | -2.060 | .00000 | -.04000 | .01000 | .04801 | -.28500 | -.25800 | .00470 | 16.28730 | .02902 | .01457 |
| .945 | -1.020 | .00000 | -.03000 | .03000 | .04831 | -.28200 | -.25700 | .00650 | 16.26100 | .02872 | .01452 |
| .946 | -.500 | -.01000 | -.06000 | .02000 | .04862 | -.28200 | -.25800 | .00560 | 16.26840 | .02872 | .01454 |
| .946 | .000 | -.01000 | -.10000 | .04000 | .04873 | -.28200 | -.25900 | .00440 | 16.27490 | .02872 | .01459 |
| .945 | .510 | -.01000 | -.07000 | .02000 | .04854 | -.28200 | -.25800 | .00500 | 16.23610 | .02869 | .01455 |
| .946 | 1.030 | -.02000 | -.06000 | .01000 | .04841 | -.28600 | -.26300 | .01010 | 16.25680 | .02911 | .01482 |
| .946 | 2.070 | -.02000 | -.07000 | .02000 | .04772 | -.29100 | -.27000 | .00540 | 16.27270 | .02962 | .01522 |
| .946 | 4.110 | -.03000 | -.04000 | .00000 | .04692 | -.29400 | -.28200 | .00810 | 16.28740 | .02991 | .01588 |
| .946 | 6.170 | -.01000 | -.08000 | .03000 | .04701 | -.30800 | -.29900 | .00720 | 16.22300 | .03133 | .01684 |
| | GRADIENT | -.00412 | -.00012 | -.00275 | -.00005 | -.00055 | -.00215 | .00031 | -.00468 | .00005 | .00012 |

RUN NO. 158/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 287

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK074) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00
 AILRON =
 GRIT =
 RUDDER =

4.500 ELEVON = .000
 .000 ALPHA = 10.000
 1.000 SPDBRK = 25.000
 .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 284/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|---------|--------|---------|--------|---------|---------|--------|----------|--------|--------|
| .977 | -6.170 | -.0100 | -.1400 | .0600 | .05908 | -.37700 | -.36300 | .00870 | 16.31690 | .03838 | .02047 |
| .977 | -4.100 | -.0200 | -.1300 | .0500 | .05812 | -.36600 | -.33900 | .00560 | 16.34230 | .03728 | .01913 |
| .977 | -2.060 | -.0300 | -.1200 | .0400 | .05840 | -.37000 | -.34400 | .00540 | 16.37900 | .03765 | .01942 |
| .977 | -1.020 | -.0300 | -.0900 | .0200 | .05943 | -.36300 | -.33700 | .00590 | 16.37460 | .03692 | .01900 |
| .978 | -.500 | -.0300 | -.1100 | .0300 | .05889 | -.36400 | -.36500 | .00480 | 16.35330 | .03700 | .01894 |
| .977 | .000 | -.0300 | -.1000 | .0300 | .05835 | -.36300 | -.35100 | .00510 | 16.33710 | .03692 | .01868 |
| .977 | .500 | -.0300 | -.1100 | .0300 | .05840 | -.36500 | -.33800 | .00720 | 16.35120 | .03723 | .01905 |
| .977 | 1.030 | -.0300 | -.1000 | .0300 | .05819 | -.36900 | -.34100 | .00570 | 16.35020 | .03753 | .01921 |
| .978 | 2.060 | -.0300 | -.1100 | .0300 | .05836 | -.37400 | -.35000 | .00630 | 16.35670 | .03802 | .01974 |
| .978 | 4.110 | -.0300 | -.1100 | .0300 | .05893 | -.37100 | -.36200 | .00600 | 16.34660 | .03775 | .02040 |
| .978 | 6.170 | -.0300 | -.1300 | .0400 | .06051 | -.38000 | -.37700 | .00500 | 16.32700 | .03868 | .02127 |
| GRADIENT | | -.00092 | .00206 | -.00206 | .00004 | -.00080 | -.00250 | .00010 | -.00121 | .00008 | .00014 |

RUN NO. 238/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|---------|---------|---------|--------|---------|---------|--------|----------|--------|--------|
| 1.046 | -6.160 | -.0000 | -.0500 | .0200 | .07607 | -.45700 | -.45200 | .00330 | 16.48320 | .04650 | .02547 |
| 1.047 | -4.110 | .0000 | -.0600 | .0300 | .07554 | -.44500 | -.43500 | .00260 | 16.51370 | .04536 | .02455 |
| 1.047 | -2.060 | -.0100 | -.0100 | .0000 | .07474 | -.43800 | -.42300 | .00430 | 16.50290 | .04455 | .02384 |
| 1.047 | -1.020 | -.0200 | -.0600 | .0100 | .07459 | -.43400 | -.42000 | .00340 | 16.49870 | .04417 | .02368 |
| 1.047 | -.500 | -.0100 | -.0600 | .0200 | .07460 | -.43300 | -.41800 | .00400 | 16.48850 | .04403 | .02358 |
| 1.047 | .000 | -.0100 | -.0600 | .0200 | .07457 | -.43400 | -.41900 | .00570 | 16.50020 | .04410 | .02360 |
| 1.048 | .510 | -.0100 | -.0600 | .0200 | .07479 | -.43300 | -.41900 | .00470 | 16.50350 | .04406 | .02364 |
| 1.048 | 1.030 | -.0200 | -.0500 | .0100 | .07545 | -.43500 | -.42400 | .00220 | 16.50680 | .04438 | .02391 |
| 1.046 | 2.070 | -.0200 | -.0700 | .0200 | .07541 | -.44100 | -.43200 | .00330 | 16.50770 | .04488 | .02433 |
| 1.047 | 4.120 | -.0300 | -.0300 | .0000 | .07599 | -.44100 | -.44700 | .00590 | 16.50470 | .04576 | .02520 |
| 1.047 | 6.190 | -.0300 | -.0600 | .0100 | .07636 | -.46300 | -.46100 | .00680 | 16.49800 | .04710 | .02598 |
| GRADIENT | | -.00320 | -.00001 | -.00183 | .00009 | -.00055 | -.00161 | .00024 | -.00025 | .00006 | .00009 |

(SUK074) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|---------|---------|--------|---------|---------|---------|----------|--------|--------|
| 1.116 | -4.110 | .05000 | -.21000 | .13000 | .07834 | -.43600 | -.39300 | .01170 | 16.58640 | .04133 | .02214 |
| 1.117 | -2.060 | .02000 | -.17000 | .10000 | .07874 | -.39700 | -.38100 | .00600 | 16.59920 | .04035 | .02146 |
| 1.117 | -1.020 | .02000 | -.18000 | .10000 | .07868 | -.39500 | -.38000 | .00370 | 16.59010 | .04014 | .02140 |
| 1.117 | -.500 | .02000 | -.18000 | .10000 | .07857 | -.39300 | -.37900 | .00440 | 16.58440 | .04002 | .02135 |
| 1.118 | .000 | .02000 | -.19000 | .11000 | .07907 | -.39400 | -.38000 | .00680 | 16.59670 | .04004 | .02143 |
| 1.117 | .500 | .03000 | -.16000 | .10000 | .07864 | -.39700 | -.38400 | .00560 | 16.57680 | .04037 | .02168 |
| 1.117 | 1.030 | .03000 | -.15000 | .09000 | .07883 | -.39900 | -.38700 | .00710 | 16.57370 | .04055 | .02184 |
| 1.117 | 2.070 | .03000 | -.15000 | .09000 | .07912 | -.40400 | -.39500 | .00580 | 16.57880 | .04108 | .02228 |
| 1.117 | 4.110 | .01000 | -.21000 | .11000 | .07881 | -.41400 | -.40800 | .01000 | 16.59230 | .04208 | .02300 |
| 1.117 | 6.190 | .00000 | -.20000 | .09000 | .07845 | -.42100 | -.41600 | .01390 | 16.57540 | .04285 | .02344 |
| 1.117 | GRADIENT | -.00286 | .00183 | -.00252 | .00006 | -.00119 | -.00223 | -.00007 | -.00086 | .00012 | .00013 |

PARAMETRIC DATA

RN/L = 4.500
 AILRON = .000
 GRIT = 1.000
 RUDDER = .000
 ELEVON = .000
 ALPHA = 10.000
 SPOBRK = 25.000
 BOFLAP = .000

RUN NO. 298/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|---------|---------|--------|---------|---------|---------|----------|--------|--------|
| 1.197 | -6.160 | .02000 | -.04000 | .03000 | .08173 | -.37300 | -.36300 | .02380 | 16.76650 | .03795 | .02045 |
| 1.197 | -4.090 | .02000 | -.00000 | .01000 | .08244 | -.36500 | -.35400 | .01350 | 16.76850 | .03714 | .01995 |
| 1.198 | -2.050 | .03000 | -.09000 | .06000 | .08264 | -.35800 | -.34800 | .00810 | 16.77970 | .03647 | .01962 |
| 1.197 | -1.010 | .03000 | -.02000 | .03000 | .08228 | -.35500 | -.34600 | .00900 | 16.74660 | .03610 | .01949 |
| 1.197 | -.490 | .03000 | -.07000 | .05000 | .08272 | -.35400 | -.34500 | .01020 | 16.76240 | .03602 | .01943 |
| 1.197 | .000 | .03000 | -.07000 | .05000 | .08299 | -.35300 | -.34500 | .01160 | 16.75380 | .03592 | .01945 |
| 1.197 | .510 | .03000 | -.05000 | .04000 | .08334 | -.35500 | -.34700 | .00860 | 16.74690 | .03610 | .01958 |
| 1.198 | 1.030 | .02000 | -.04000 | .03000 | .08307 | -.35700 | -.34900 | .00730 | 16.73800 | .03628 | .01968 |
| 1.197 | 2.060 | .00000 | -.05000 | .03000 | .08347 | -.36200 | -.35500 | .00820 | 16.74020 | .03682 | .02004 |
| 1.198 | 4.100 | .00000 | -.05000 | .03000 | .08366 | -.36800 | -.36400 | .01290 | 16.75990 | .03742 | .02050 |
| 1.196 | 6.160 | -.02000 | -.05000 | .01000 | .08289 | -.37300 | -.36800 | .02450 | 16.73670 | .03793 | .02073 |
| 1.196 | GRADIENT | -.00345 | -.00298 | -.00058 | .00018 | -.00052 | -.00133 | -.00011 | -.00308 | .00005 | .00008 |

RUN NO. 224/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

RN/L = 4.000
 AILRON = .000
 GRIT = 1.000
 RUDDER = .000
 ELEVON = .000
 ALPHA = 10.000
 SPOBRK = 25.000
 BOFLAP = .000

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK076) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

8.000 ELEVON = .000
 .000 ALPHA = 12.000
 1.000 SPOBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 210/ 0 RN/L = 8.19 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|--------|----------|---------|--------|
| .581 | -6.210 | .0000 | .0500 | -.0200 | -.04069 | -.24200 | -.22300 | .01330 | 16.00210 | .02466 | .01259 |
| .598 | -4.140 | .0100 | .0700 | -.0200 | -.03772 | -.24000 | -.21800 | .00610 | 15.93170 | .02440 | .01233 |
| .599 | -2.080 | .0000 | .0700 | -.0300 | -.03553 | -.23400 | -.21400 | .00590 | 15.86370 | .02379 | .01208 |
| .599 | -1.030 | .0000 | .0600 | -.0300 | -.03479 | -.22900 | -.21500 | .00560 | 15.84490 | .02336 | .01212 |
| .598 | -.510 | .0000 | .0700 | -.0300 | -.03497 | -.22800 | -.21400 | .00570 | 15.83470 | .02324 | .01207 |
| .599 | .000 | .0000 | .0600 | -.0300 | -.03477 | -.22700 | -.21300 | .00740 | 15.83410 | .02316 | .01203 |
| .599 | .500 | .0000 | .0600 | -.0300 | -.03530 | -.22900 | -.21400 | .00600 | 15.82390 | .02326 | .01207 |
| .600 | 1.030 | .0000 | .0700 | -.0300 | -.03417 | -.22900 | -.21600 | .00840 | 15.82320 | .02335 | .01218 |
| .598 | 2.080 | .0000 | .0600 | -.0300 | -.03499 | -.23100 | -.21800 | .00580 | 15.83160 | .02353 | .01232 |
| .600 | 4.120 | .0000 | .0600 | -.0300 | -.03749 | -.23500 | -.22200 | .00730 | 15.89100 | .02393 | .01255 |
| .599 | 6.210 | .0000 | .0600 | -.0300 | -.04010 | -.24300 | -.23000 | .00630 | 15.97570 | .02463 | .01300 |
| | GRADIENT | -.00091 | -.00125 | -.00091 | .00006 | .00058 | -.00057 | .00017 | -.00581 | -.00005 | .00003 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK077) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

3.500 ELEVON = .000
 .000 ALPHA = 12.000
 1.000 SPOBRK = 25.000
 .000 BDFLAP = .000

RUN NO. 215/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|--------|
| .598 | -6.080 | .0600 | .0800 | -.0100 | -.02888 | -.23400 | -.21100 | .00650 | 16.00280 | .02380 | .01190 |
| .599 | -4.050 | .0700 | .0900 | -.0100 | -.02798 | -.23000 | -.20300 | .00510 | 15.93750 | .02339 | .01148 |
| .599 | -2.030 | .0600 | .1100 | -.0200 | -.02620 | -.22300 | -.19700 | .04190 | 15.83300 | .02275 | .01113 |
| .598 | -1.010 | .0700 | .1200 | -.0200 | -.02538 | -.22100 | -.19800 | .00310 | 15.83090 | .02254 | .01117 |
| .598 | -.500 | .0700 | .1100 | -.0100 | -.02457 | -.22200 | -.19900 | .00220 | 15.82900 | .02260 | .01125 |
| .599 | .000 | .0600 | .1200 | -.0200 | -.02479 | -.22200 | -.20200 | .00280 | 15.83070 | .02260 | .01138 |
| .599 | .490 | .0100 | -.0400 | .0300 | -.02497 | -.22500 | -.20200 | .00020 | 15.82960 | .02293 | .01140 |
| .598 | 1.010 | .0100 | -.0300 | .0200 | -.02530 | -.22400 | -.20300 | .00170 | 15.82660 | .02290 | .01144 |
| .596 | 2.030 | .0100 | .0000 | .0100 | -.02528 | -.22500 | -.20500 | .00200 | 15.84560 | .02293 | .01159 |
| .599 | 4.040 | .0000 | -.0200 | .0100 | -.02576 | -.22700 | -.21000 | .00340 | 15.89210 | .02312 | .01185 |
| .598 | 6.080 | .0000 | -.0600 | .0300 | -.02698 | -.23600 | -.21800 | .00770 | 15.96620 | .02400 | .01229 |
| | GRADIENT | -.01092 | -.02055 | -.00464 | .00017 | .00008 | -.00117 | -.00021 | -.00374 | -.00001 | .00006 |

(SUK078) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = 12.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 213/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|--------|---------|--------|---------|---------|---------|--------|----------|---------|--------|
| .598 | -6.110 | .00000 | -.03000 | .02000 | -.03215 | -.23100 | -.21100 | .00750 | 15.98880 | .02351 | .01194 |
| .599 | -4.070 | .00000 | .00000 | .00000 | -.02992 | -.22500 | -.20300 | .00370 | 15.92380 | .02293 | .01146 |
| .598 | -2.040 | .00000 | .00000 | .00000 | -.02847 | -.22500 | -.19800 | .00200 | 15.84430 | .02287 | .01117 |
| .597 | -1.010 | .00000 | -.02000 | .01000 | -.02788 | -.22000 | -.20000 | .00380 | 15.82850 | .02241 | .01126 |
| .598 | -.500 | .00000 | .00000 | .00000 | -.02693 | -.22200 | -.19900 | .00420 | 15.79210 | .02258 | .01125 |
| .597 | .000 | .00000 | -.03000 | .02000 | -.02835 | -.22000 | -.20000 | .00440 | 15.79270 | .02238 | .01127 |
| .599 | .490 | .00000 | -.03000 | .02000 | -.02830 | -.22200 | -.20200 | .00440 | 15.79020 | .02260 | .01138 |
| .598 | 1.010 | .00000 | -.02000 | .01000 | -.02764 | -.22100 | -.20500 | .00220 | 15.80250 | .02254 | .01156 |
| .597 | 2.040 | .00000 | .00000 | .00000 | -.02815 | -.22200 | -.20300 | .00220 | 15.81490 | .02257 | .01146 |
| .598 | 4.060 | .00000 | -.02000 | .01000 | -.02882 | -.22600 | -.21000 | .00460 | 15.89550 | .02301 | .01193 |
| .598 | 6.110 | .00000 | -.03000 | .01000 | -.03053 | -.23400 | -.21700 | .01030 | 15.96440 | .02384 | .01225 |
| | GRADIENT | .00000 | -.00219 | .00115 | .00013 | .00002 | -.00103 | .00006 | -.00461 | -.00000 | .00006 |

(SUK079) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 137/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|--------|
| .596 | -6.120 | .00000 | .00000 | .00000 | -.03493 | -.24100 | -.22300 | .00530 | 16.02250 | .02452 | .01260 |
| .598 | -4.070 | .01000 | .00000 | .01000 | -.03288 | -.23900 | -.21400 | .00420 | 15.96940 | .02435 | .01208 |
| .597 | -2.040 | .00000 | .00000 | .00000 | -.03179 | -.23700 | -.20800 | .00380 | 15.91210 | .02403 | .01175 |
| .597 | -1.020 | .00000 | -.01000 | .00000 | -.03076 | -.23200 | -.21000 | .00320 | 15.88150 | .02364 | .01187 |
| .598 | -.500 | .01000 | .00000 | .00000 | -.02968 | -.23200 | -.21200 | .00340 | 15.87950 | .02361 | .01198 |
| .597 | .000 | .00000 | -.02000 | .00000 | -.02992 | -.23200 | -.21400 | .00770 | 15.88910 | .02363 | .01207 |
| .597 | .490 | .00000 | -.02000 | .00000 | -.02890 | -.22900 | -.21200 | .00660 | 15.89540 | .02335 | .01197 |
| .597 | 1.010 | .00000 | -.02000 | .01000 | -.02885 | -.23100 | -.21300 | .00320 | 15.90380 | .02351 | .01204 |
| .597 | 2.040 | .00000 | -.04000 | .00000 | -.02935 | -.23400 | -.21400 | .00450 | 15.91780 | .02379 | .01210 |
| .596 | 4.070 | .00000 | -.04000 | .01000 | -.03003 | -.23700 | -.21000 | .00300 | 15.97590 | .02410 | .01246 |
| .597 | 6.110 | .00000 | -.03000 | .01000 | -.03159 | -.24100 | -.22700 | .00340 | 16.00370 | .02454 | .01281 |
| | GRADIENT | -.00104 | -.00462 | -.00060 | .00043 | .00038 | -.00100 | -.00004 | .00156 | -.00004 | .00006 |

(SUJ079) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA
 SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA
 RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 ROLAP = .000

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|--------|---------|---------|---------|----------|---------|--------|
| .896 | -6.210 | .0800 | -.0200 | .0500 | .02987 | -.29200 | -.27600 | .01470 | 16.19800 | .02968 | .01559 |
| .896 | -4.120 | .0700 | .0000 | .0400 | .03189 | -.29000 | -.26900 | .01060 | 16.17920 | .02950 | .01520 |
| .896 | -2.070 | .0900 | .0000 | .0400 | .03232 | -.29900 | -.26400 | .00970 | 16.16280 | .02940 | .01488 |
| .896 | -1.030 | .0600 | .0000 | .0300 | .03371 | -.28600 | -.26200 | .01170 | 16.16670 | .02909 | .01480 |
| .896 | -.500 | .0600 | .0000 | .0300 | .03412 | -.28400 | -.26200 | .01300 | 16.16470 | .02888 | .01478 |
| .896 | .000 | .0600 | .0000 | .0300 | .03410 | -.28300 | -.26200 | .01180 | 16.15100 | .02883 | .01478 |
| .896 | .510 | .0700 | .0000 | .0400 | .03438 | -.28300 | -.26400 | .01230 | 16.16560 | .02880 | .01489 |
| .896 | 1.040 | .0500 | .0000 | .0300 | .03448 | -.28000 | -.26400 | .01000 | 16.16990 | .02851 | .01492 |
| .896 | 2.080 | .0600 | -.0100 | .0400 | .03502 | -.27700 | -.26700 | .01320 | 16.19340 | .02822 | .01508 |
| .896 | 4.140 | .0400 | -.0200 | .0300 | .03322 | -.28200 | -.27600 | .00910 | 16.21360 | .02870 | .01560 |
| .896 | 6.220 | .0400 | -.0100 | .0300 | .02991 | -.29400 | -.28600 | .01200 | 16.21580 | .02932 | .01615 |
| | GRADIENT | -.00422 | -.00228 | -.00080 | .00026 | .00142 | -.00084 | -.00002 | .00518 | -.00014 | .00005 |

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|--------|---------|---------|--------|----------|---------|--------|
| .946 | -6.170 | .0000 | -.1000 | .0400 | .04079 | -.34800 | -.33800 | .00930 | 16.36030 | .03539 | .01907 |
| .946 | -4.090 | -.0300 | -.1000 | .0300 | .04070 | -.34900 | -.32300 | .00670 | 16.37800 | .03546 | .01823 |
| .946 | -2.040 | -.0200 | -.0700 | .0200 | .04115 | -.34800 | -.30300 | .00800 | 16.40260 | .03546 | .01712 |
| .946 | -1.000 | -.0400 | -.0600 | .0000 | .04154 | -.34800 | -.29900 | .00620 | 16.40760 | .03546 | .01687 |
| .946 | -.740 | -.0400 | -.0500 | .0000 | .04199 | -.34600 | -.29700 | .00810 | 16.40950 | .03520 | .01677 |
| .947 | -.480 | -.0500 | -.0700 | .0000 | .04208 | -.34700 | -.30000 | .00900 | 16.39740 | .03527 | .01650 |
| .946 | .020 | -.0500 | -.0700 | .0000 | .04200 | -.34600 | -.29900 | .00920 | 16.40290 | .03513 | .01686 |
| .946 | .530 | -.0600 | -.0700 | .0000 | .04238 | -.34600 | -.30200 | .00780 | 16.41070 | .03520 | .01702 |
| .947 | 1.050 | -.0500 | -.0900 | .0100 | .04258 | -.34400 | -.30400 | .00710 | 16.42210 | .03505 | .01713 |
| .945 | 2.050 | -.0400 | -.0700 | .0100 | .04223 | -.34000 | -.30900 | .00810 | 16.42590 | .03459 | .01741 |
| .946 | 4.100 | -.0500 | -.0700 | .0000 | .04109 | -.34000 | -.32300 | .00700 | 16.43210 | .03463 | .01821 |
| .946 | 6.170 | .0000 | -.0800 | .0300 | .04020 | -.33600 | -.33000 | .00900 | 16.37710 | .03423 | .01860 |
| | GRADIENT | -.00313 | -.00168 | -.00285 | .00011 | .00129 | -.00055 | .00003 | .00644 | -.00013 | .00003 |

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUJ079) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA
 SREF = 2590.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA
 RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|--------|----------|---------|--------|
| .977 | -6.180 | -.03000 | -.11000 | .03000 | .05035 | -.42100 | -.40900 | .00640 | 16.45140 | .04285 | .02308 |
| .977 | -4.110 | -.01000 | -.13000 | .06000 | .05004 | -.42300 | -.38900 | .00600 | 16.46310 | .04298 | .02194 |
| .977 | -2.050 | -.01000 | -.12000 | .05000 | .05107 | -.42500 | -.37500 | .00690 | 16.46580 | .04324 | .02117 |
| .978 | -1.020 | -.03000 | -.10000 | .03000 | .05092 | -.42300 | -.37400 | .00790 | 16.46420 | .04305 | .02111 |
| .977 | -.500 | -.04000 | -.11000 | .03000 | .05114 | -.42100 | -.37400 | .00920 | 16.46790 | .04282 | .02108 |
| .977 | .000 | -.03000 | -.12000 | .04000 | .03075 | -.42000 | -.37100 | .00750 | 16.45770 | .04275 | .02092 |
| .978 | .500 | -.03000 | -.13000 | .04000 | .05067 | -.42900 | -.37800 | .00750 | 16.46980 | .04362 | .02130 |
| .978 | 1.030 | -.04000 | -.11000 | .03000 | .05112 | -.42800 | -.37900 | .00720 | 16.46630 | .04354 | .02140 |
| .977 | 2.070 | -.03000 | -.12000 | .04000 | .05026 | -.42700 | -.38800 | .00600 | 16.47830 | .04342 | .02190 |
| .977 | 4.120 | -.03000 | -.12000 | .04000 | .04973 | -.41500 | -.40000 | .00780 | 16.46660 | .04221 | .02254 |
| .978 | 6.190 | -.03000 | -.13000 | .04000 | .05004 | -.41500 | -.41000 | .00880 | 16.43260 | .04230 | .02311 |
| | GRADIENT | -.00286 | .00047 | -.00218 | -.00007 | .00044 | -.00176 | .00009 | .00096 | -.00004 | .00010 |

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|--------|---------|---------|---------|---------|--------|----------|--------|--------|
| 1.048 | -6.190 | -.03000 | .00000 | -.02000 | .06509 | -.48600 | -.47700 | .00380 | 16.54750 | .04945 | .02691 |
| 1.048 | -4.110 | .00000 | .00000 | .00000 | .06539 | -.47900 | -.45900 | .00510 | 16.55130 | .04873 | .02588 |
| 1.047 | -2.060 | .02000 | .02000 | -.02000 | .06594 | -.47200 | -.45400 | .00890 | 16.54810 | .04800 | .02558 |
| 1.049 | -1.020 | -.02000 | .02000 | -.02000 | .06614 | -.47200 | -.45300 | .00750 | 16.56010 | .04801 | .02555 |
| 1.047 | -.500 | -.02000 | .00000 | -.01000 | .06567 | -.47400 | -.45300 | .00880 | 16.55520 | .04820 | .02555 |
| 1.049 | .000 | -.02000 | .01000 | -.02000 | .06595 | -.47300 | -.45200 | .00960 | 16.55310 | .04807 | .02549 |
| 1.048 | .510 | -.02000 | .01000 | -.02000 | .06596 | -.47400 | -.45300 | .00850 | 16.55510 | .04819 | .02553 |
| 1.047 | 1.030 | -.03000 | .01000 | -.02000 | .06581 | -.47600 | -.45500 | .00960 | 16.56090 | .04937 | .02566 |
| 1.048 | 2.070 | -.01000 | .04000 | -.03000 | .06583 | -.48000 | -.46200 | .00770 | 16.54440 | .04860 | .02605 |
| 1.047 | 4.120 | -.01000 | .02000 | -.02000 | .06513 | -.48000 | -.47500 | .00650 | 16.54530 | .04883 | .02676 |
| 1.049 | 6.190 | -.01000 | .00000 | -.00000 | .06517 | -.48900 | -.48500 | .00600 | 16.52280 | .04971 | .02734 |
| | GRADIENT | -.00968 | .00263 | -.00240 | -.00003 | .00055 | -.00188 | .00012 | -.00070 | .00005 | .00010 |

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK080) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

ELEVON = .000
 ALPHA = 15.000
 SPCBRK = 25.000
 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 225/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|--------|---------|--------|---------|---------|---------|---------|----------|--------|--------|
| 1.197 | -6.180 | .0000 | -.0600 | .0300 | -.07446 | -.39100 | -.38200 | .0290 | 16.76080 | .03980 | .02155 |
| 1.198 | -4.110 | .0000 | -.0500 | .0300 | .07371 | -.38600 | -.36900 | .01890 | 16.77250 | .03926 | .02081 |
| 1.198 | -2.060 | .0000 | -.0500 | .0300 | .07386 | -.37700 | -.36300 | .01090 | 16.74010 | .03839 | .02049 |
| 1.197 | -1.020 | .0000 | -.0400 | .0200 | .07362 | -.37900 | -.36300 | .01050 | 16.72950 | .03851 | .02046 |
| 1.197 | -.500 | .0000 | -.0300 | .0200 | .07376 | -.38000 | -.36500 | .01000 | 16.73370 | .03862 | .02056 |
| 1.197 | .000 | .0000 | -.0800 | .0400 | .07409 | -.38000 | -.36600 | .00890 | 16.75480 | .03869 | .02062 |
| 1.196 | .510 | .0000 | -.0700 | .0400 | .07398 | -.38200 | -.36700 | .01170 | 16.73340 | .03881 | .02067 |
| 1.197 | 1.030 | .0000 | -.0700 | .0400 | .07417 | -.38100 | -.36700 | .01210 | 16.73060 | .03876 | .02069 |
| 1.198 | 2.070 | .0000 | -.0600 | .0300 | .07477 | -.38200 | -.37700 | .01170 | 16.74300 | .03890 | .02126 |
| 1.198 | 4.120 | .0000 | -.0700 | .0300 | .07549 | -.38400 | -.38200 | .01470 | 16.75890 | .03903 | .02155 |
| 1.198 | 6.190 | .0000 | -.0600 | .0300 | .07477 | -.39400 | -.38700 | .01930 | 16.74510 | .04009 | .02183 |
| | GRADIENT | .00000 | -.00342 | .00068 | .00022 | -.00011 | -.00194 | -.00029 | -.00107 | .00001 | .00011 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 AILRON =
 GRIT =
 RUDDER =

ELEVON = .000
 ALPHA = 15.000
 SPCBRK = 25.000
 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 216/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

(SUK081) (26 FEB 76)

RUN NO. 216/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|--------|---------|--------|---------|---------|---------|--------|----------|---------|--------|
| .599 | -6.080 | .0000 | -.0400 | .0200 | -.02975 | -.24600 | -.22500 | .00710 | 16.05550 | .02505 | .01269 |
| .598 | -4.050 | .0000 | -.0400 | .0200 | -.02899 | -.24600 | -.21500 | .00250 | 16.01200 | .02509 | .01215 |
| .598 | -2.030 | .0000 | -.0400 | .0200 | -.02828 | -.24500 | -.21100 | .00310 | 15.97070 | .02493 | .01192 |
| .598 | -1.010 | .0000 | -.0300 | .0100 | -.02751 | -.24200 | -.21200 | .00050 | 15.96210 | .02465 | .01194 |
| .598 | -.490 | .0000 | -.0000 | .0000 | -.02697 | -.24200 | -.21300 | .00280 | 15.95570 | .02468 | .01202 |
| .599 | .000 | .0000 | -.0400 | .0200 | -.02600 | -.23900 | -.21400 | .00220 | 15.95600 | .02434 | .01208 |
| .598 | .490 | .0000 | -.0500 | .0200 | -.02656 | -.24100 | -.21400 | .00050 | 15.94680 | .02453 | .01210 |
| .599 | 1.010 | .0000 | -.0400 | .0200 | -.02548 | -.23800 | -.21400 | .00280 | 15.95570 | .02427 | .01208 |
| .598 | 2.030 | .0000 | -.0500 | .0200 | -.02573 | -.24300 | -.21600 | .00190 | 15.95420 | .02450 | .01218 |
| .598 | 4.050 | .0000 | -.0400 | .0200 | -.02649 | -.24300 | -.22100 | .00340 | 15.01620 | .02473 | .01250 |
| .599 | 6.080 | .0000 | -.0300 | .0100 | -.02764 | -.24200 | -.22700 | .00340 | 15.04800 | .02463 | .01281 |
| | GRADIENT | .00000 | -.00126 | .00046 | .00040 | .00057 | -.00085 | .00006 | -.00062 | -.00006 | .00005 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK082) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 214/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|--------|----------|---------|--------|
| .598 | -6.110 | .02000 | -.04000 | .03000 | -.03346 | -.24200 | -.22400 | .01240 | 16.01390 | .02463 | .01264 |
| .599 | -4.070 | .01000 | -.03000 | .02000 | -.03267 | -.24400 | -.21400 | .00500 | 15.98540 | .02484 | .01206 |
| .599 | -2.040 | .00000 | .00000 | .01000 | -.03159 | -.24300 | -.21100 | .00440 | 15.94360 | .02471 | .01190 |
| .598 | -1.010 | .00000 | .00000 | .00000 | -.02946 | -.23500 | -.21000 | .00350 | 15.93060 | .02392 | .01186 |
| .600 | -.500 | .00000 | .00000 | .00000 | -.02900 | -.23300 | -.21100 | .00130 | 15.92490 | .02376 | .01191 |
| .599 | .000 | .00000 | -.04000 | .01000 | -.02842 | -.23200 | -.21100 | .00300 | 15.92680 | .02362 | .01191 |
| .598 | .500 | .00000 | -.03000 | .01000 | -.02806 | -.23400 | -.21300 | .00320 | 15.95400 | .02379 | .01204 |
| .599 | 1.010 | .00000 | -.01000 | .00000 | -.02800 | -.23200 | -.21300 | .00480 | 15.92720 | .02365 | .01204 |
| .598 | 2.040 | .00000 | -.02000 | .00000 | -.02846 | -.23000 | -.21300 | .00500 | 15.93480 | .02363 | .01200 |
| .598 | 4.070 | -.01000 | -.02000 | .00000 | -.02903 | -.23400 | -.21600 | .00480 | 15.99250 | .02382 | .01220 |
| .599 | 6.110 | .00000 | -.02000 | .01000 | -.02985 | -.23800 | -.22500 | .00410 | 16.03610 | .02426 | .01270 |
| | GRADIENT | -.00231 | -.00057 | -.00220 | .00053 | .00149 | -.00037 | .00006 | .00050 | -.00015 | .00002 |

RUN NO. 265/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|--------|
| .947 | -6.160 | -.05000 | .01000 | -.03000 | .04342 | -.34400 | -.32800 | .00850 | 16.39610 | .03496 | .01850 |
| .948 | -4.090 | -.04000 | .01000 | -.03000 | .04315 | -.34500 | -.31200 | .00710 | 16.40710 | .03514 | .01760 |
| .948 | -2.040 | -.04000 | .02000 | -.03000 | .04326 | -.34700 | -.29500 | .00810 | 16.41070 | .03535 | .01662 |
| .947 | -1.000 | -.04000 | .00000 | -.02000 | .04342 | -.34500 | -.29000 | .00710 | 16.41290 | .03507 | .01633 |
| .947 | -.480 | -.04000 | .01000 | -.03000 | .04370 | -.34700 | -.28900 | .00870 | 16.42140 | .03529 | .01632 |
| .947 | .020 | -.04000 | .00000 | -.02000 | .04371 | -.34400 | -.29100 | .01380 | 16.41450 | .03502 | .01641 |
| .947 | .520 | -.04000 | .00000 | -.02000 | .04380 | -.34500 | -.29300 | .00900 | 16.41510 | .03508 | .01651 |
| .947 | 1.050 | -.05000 | .01000 | -.03000 | .04348 | -.34600 | -.29500 | .00670 | 16.41740 | .03515 | .01664 |
| .947 | 2.080 | -.05000 | .01000 | -.03000 | .04362 | -.34100 | -.30100 | .00450 | 16.43130 | .03465 | .01698 |
| .947 | 4.090 | -.04000 | .01000 | -.03000 | .04204 | -.34300 | -.31900 | .00620 | 16.43580 | .03494 | .01798 |
| .947 | 6.160 | -.04000 | .01000 | -.03000 | .04148 | -.33600 | -.32300 | .00760 | 16.39460 | .03421 | .01822 |
| | GRADIENT | -.00070 | -.00035 | -.00011 | -.00008 | .00046 | -.00106 | -.00025 | .00362 | -.00005 | .00006 |

(SUK083) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 211/ 0 RN/L = 8.17 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|--------|--------|---------|---------|---------|---------|---------|----------|--------|--------|
| .599 | -6.220 | .01000 | .04000 | -.01000 | -.04184 | -.24200 | -.22800 | .01190 | 16.02860 | .02468 | .01285 |
| .598 | -4.140 | .00000 | .05000 | -.02000 | -.03918 | -.24100 | -.21800 | .01050 | 15.94420 | .02448 | .01229 |
| .600 | -2.070 | .03000 | .06000 | -.01000 | -.03666 | -.23400 | -.21400 | .00520 | 15.91040 | .02386 | .01210 |
| .600 | -1.040 | .00000 | .06000 | -.03000 | -.03624 | -.23100 | -.21700 | .00680 | 15.86550 | .02347 | .01223 |
| .600 | -.510 | .00000 | .06000 | -.03000 | -.03570 | -.22900 | -.21700 | .00530 | 15.83930 | .02335 | .01222 |
| .600 | -.010 | .01000 | .06000 | -.02000 | -.03582 | -.23100 | -.21900 | .00630 | 15.87020 | .02353 | .01225 |
| .599 | .500 | .01000 | .06000 | -.02000 | -.03543 | -.23300 | -.21900 | .00740 | 15.89210 | .02370 | .01235 |
| .601 | 1.030 | .01000 | .06000 | -.02000 | -.03498 | -.23400 | -.22000 | .00690 | 15.89060 | .02380 | .01243 |
| .600 | 2.070 | .01000 | .06000 | -.02000 | -.03568 | -.23500 | -.22100 | .00840 | 15.90040 | .02388 | .01247 |
| .600 | 4.130 | .04000 | .05000 | -.00000 | -.03750 | -.24000 | -.22700 | .00760 | 15.95030 | .02445 | .01282 |
| .600 | 6.200 | .01000 | .06000 | -.02000 | -.03945 | -.24500 | -.23500 | .00930 | 16.02020 | .02497 | .01324 |
| GRADIENT | | .00307 | .00000 | .00171 | .00023 | -.00007 | -.00123 | -.00015 | .00093 | .00001 | .00007 |

RUN NO. 264/ 0 RN/L = 8.14 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|--------|---------|--------|---------|---------|---------|--------|----------|---------|--------|
| .951 | -1.090 | .02000 | -.08000 | .05000 | .04099 | -.36700 | -.30800 | .00800 | 16.42870 | .03734 | .01739 |
| .951 | -.560 | .02000 | -.07000 | .05000 | .04089 | -.36700 | -.30700 | .00750 | 16.44350 | .03736 | .01729 |
| .950 | -.030 | .02000 | -.06000 | .04000 | .04033 | -.36400 | -.30600 | .00660 | 16.44790 | .03699 | .01727 |
| .949 | .480 | .02000 | -.09000 | .06000 | .04022 | -.36100 | -.30700 | .00720 | 16.44950 | .03568 | .01729 |
| .950 | 1.020 | .02000 | -.11000 | .07000 | .03995 | -.36400 | -.31500 | .00810 | 16.44470 | .03703 | .01775 |
| .950 | 2.090 | .01000 | -.12000 | .07000 | .04009 | -.36200 | -.32300 | .00600 | 16.43660 | .03685 | .01824 |
| .950 | 4.190 | .03000 | -.12000 | .07000 | .03861 | -.36600 | -.34300 | .00830 | 16.42960 | .03728 | .01932 |
| .950 | 6.330 | .09000 | -.10000 | .09000 | .03848 | -.35600 | -.33800 | .00630 | 16.40110 | .03619 | .01904 |
| GRADIENT | | .00108 | -.01106 | .00510 | -.00042 | .00025 | -.00718 | .00004 | -.00161 | -.00002 | .00040 |

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SFDRK = 25.000
 RUDDER = .000 BDFLAP = .000

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (SUK084) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 138/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|
| .597 | -6.110 | .0100 | .0000 | .0100 | -.03180 | -.27000 | -.25500 | .00680 | 16.19180 | .02745 | .01441 |
| .596 | -4.070 | .03000 | -.02000 | .03000 | -.02963 | -.27600 | -.25500 | .00730 | 16.17420 | .02807 | .01437 |
| .597 | -2.040 | .00000 | -.03000 | .02000 | -.02930 | -.27800 | -.25700 | .00900 | 16.13190 | .02832 | .01450 |
| .597 | -1.020 | .00000 | -.02000 | .00000 | -.02886 | -.27700 | -.25800 | .00550 | 16.15760 | .02818 | .01458 |
| .596 | -.500 | .00000 | -.02000 | .01000 | -.02795 | -.27700 | -.25900 | .01110 | 16.14670 | .02818 | .01458 |
| .596 | .000 | .00000 | -.02000 | .01000 | -.02913 | -.28000 | -.26100 | .00830 | 16.14210 | .02847 | .01472 |
| .597 | .490 | .03000 | -.03000 | .03000 | -.02870 | -.27400 | -.25500 | .01050 | 16.12890 | .02790 | .01441 |
| .596 | 1.010 | .02000 | -.03000 | .02000 | -.02872 | -.27500 | -.25600 | .00600 | 16.12270 | .02795 | .01447 |
| .596 | 2.040 | .00000 | -.03000 | .02000 | -.03044 | -.27500 | -.25700 | .00850 | 16.11870 | .02797 | .01453 |
| .597 | 4.060 | -.01000 | -.03000 | .00000 | -.03148 | -.26700 | -.25100 | .00470 | 16.13410 | .02717 | .01417 |
| .597 | 6.110 | .00000 | -.04000 | .02000 | -.03353 | -.27000 | -.25900 | .00700 | 16.14600 | .02745 | .01461 |
| | GRADIENT | -.00290 | -.00127 | -.00186 | -.00023 | .00105 | .00046 | -.00026 | -.00533 | -.00011 | -.00002 |

RUN NO. 69/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|
| .897 | -6.230 | .04000 | .00000 | .02000 | .01604 | -.38100 | -.36600 | .02090 | 15.93680 | -.03874 | .02063 |
| .897 | -4.140 | .05000 | -.02000 | .04000 | .02053 | -.37500 | -.36100 | .02090 | 16.02790 | .03813 | .02038 |
| .897 | -2.070 | .08000 | -.01000 | .05000 | .02267 | -.37100 | -.36400 | .01980 | 16.03600 | .03778 | .02055 |
| .896 | -1.030 | .08000 | -.02000 | .05000 | .02291 | -.36900 | -.36500 | .02060 | 16.02640 | .03755 | .02058 |
| .896 | -.500 | .08000 | -.02000 | .05000 | .02289 | -.36400 | -.35800 | .01680 | 16.00940 | .03705 | .02021 |
| .896 | .480 | .04000 | .00000 | .02000 | .02321 | -.36100 | -.36000 | .01800 | 15.97890 | .03677 | .02032 |
| .896 | 1.040 | -.05000 | -.06000 | .00000 | .02225 | -.37000 | -.36500 | .01750 | 16.04930 | .03768 | .02057 |
| .897 | 2.080 | -.04000 | -.05000 | .00000 | .02236 | -.36700 | -.36000 | .01270 | 16.06690 | .03734 | .02029 |
| .896 | 4.150 | .00000 | -.06000 | .02000 | .02018 | -.37000 | -.35900 | .01360 | 16.05140 | .03761 | .02022 |
| .895 | 6.210 | -.02000 | -.05000 | .01000 | .01608 | -.38200 | -.37000 | .01690 | 16.00990 | .03888 | .02086 |
| | GRADIENT | -.01341 | -.00616 | -.00556 | -.00006 | .00064 | .00034 | -.00104 | -.00376 | -.00007 | -.00003 |

(SUK084) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK085) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 AILRON = .000 ALPHA = 20.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAE | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|
| .946 | -6.170 | -.05000 | -.09000 | .01000 | -.41300 | -.38300 | -.01360 | .01360 | 16.33610 | .04205 | .02161 |
| .947 | -4.100 | -.05000 | -.10000 | .02000 | -.41500 | -.38900 | -.01370 | .01370 | 16.36220 | .04223 | .02192 |
| .946 | -2.060 | -.05000 | -.10000 | .02000 | -.40600 | -.36200 | -.01250 | .01250 | 16.35010 | .04128 | .02041 |
| .946 | -1.030 | -.05000 | -.10000 | .02000 | -.40400 | -.35600 | -.01120 | .01120 | 16.35120 | .04114 | .02008 |
| .946 | -.500 | -.05000 | -.10000 | .02000 | -.40300 | -.35500 | -.01100 | .01100 | 16.37540 | .04102 | .02003 |
| .945 | .000 | -.05000 | -.09000 | .01000 | -.39800 | -.35200 | -.01030 | .01030 | 16.35910 | .04047 | .01985 |
| .947 | .500 | -.04000 | -.09000 | .02000 | -.39900 | -.35800 | -.00720 | .00720 | 16.37760 | .04063 | .02017 |
| .947 | 1.030 | -.04000 | -.09000 | .02000 | -.36000 | -.36000 | -.01100 | .01100 | 16.35700 | .04070 | .02029 |
| .945 | 2.070 | -.01000 | -.09000 | .03000 | -.39300 | -.35400 | -.01010 | .01010 | 16.35180 | .04002 | .01999 |
| .947 | 4.120 | -.04000 | -.07000 | .01000 | -.39000 | -.36300 | -.01390 | .01390 | 16.35010 | .03964 | .02049 |
| .945 | 6.190 | -.04000 | -.06000 | .02000 | -.39100 | -.37000 | -.00820 | .00820 | 16.33840 | .03977 | .02085 |
| | GRADIENT | .00309 | .00355 | -.00046 | .00302 | .00251 | -.00014 | -.00014 | -.00087 | -.00031 | -.00014 |

RUN NO. 159/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.000 ELEVON = .000
 AILRON = .000 ALPHA = 20.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|--------|---------|---------|---------|---------|---------|---------|----------|--------|--------|
| 1.197 | -6.190 | .00000 | -.05000 | .03000 | .05707 | -.40900 | -.40400 | .01620 | 16.72540 | .04162 | .02281 |
| 1.198 | -4.120 | .00000 | -.10000 | .05000 | -.40900 | -.40200 | -.40200 | .02950 | 16.73350 | .04161 | .02269 |
| 1.197 | -2.070 | .00000 | -.06000 | .03000 | .06937 | -.41000 | -.40000 | .02010 | 16.73820 | .04169 | .02258 |
| 1.197 | -1.030 | .00000 | -.08000 | .04000 | .06922 | -.40900 | -.39800 | .01290 | 16.74140 | .04161 | .02245 |
| 1.197 | -.500 | .00000 | -.08000 | .04000 | .06912 | -.40900 | -.39700 | .01060 | 16.73780 | .04156 | .02241 |
| 1.197 | .000 | .00000 | -.07000 | .03000 | .05933 | -.41000 | -.39700 | .01060 | 16.74400 | .04172 | .02240 |
| 1.196 | .510 | .00000 | -.06000 | .04000 | .05917 | -.41100 | -.39700 | .01270 | 16.73430 | .04177 | .02239 |
| 1.197 | 1.030 | .00000 | -.06000 | .03000 | .05930 | -.41000 | -.39700 | .01180 | 16.73050 | .04170 | .02236 |
| 1.198 | 2.070 | .00000 | -.05000 | .03000 | .06939 | -.41000 | -.40200 | .01020 | 16.72690 | .04172 | .02268 |
| 1.197 | 4.130 | .00000 | -.04000 | .02000 | .06826 | -.41000 | -.40500 | .00940 | 16.71590 | .04167 | .02283 |
| 1.196 | 6.200 | .00000 | -.04000 | .02000 | .06576 | -.41000 | -.40200 | .01080 | 16.69630 | .04168 | .02265 |
| | GRADIENT | .00000 | .00604 | -.00296 | -.00005 | -.00014 | -.00034 | -.00232 | -.00236 | .00001 | .00002 |

RUN NO. 226/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

(SUK086) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AILIRON = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 144/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|--------|---------|---------|---------|----------|--------|--------|
| .597 | -6.110 | 9.93000 | 9.96000 | -0.1000 | .03127 | -.25700 | -.24300 | .00620 | 19.49060 | .02614 | .01371 |
| .597 | -4.070 | 9.93000 | 9.96000 | -0.1000 | .03343 | -.25000 | -.23400 | .00580 | 19.32510 | .02543 | .01321 |
| .597 | -2.050 | 9.93000 | 9.99000 | -0.2000 | .03655 | -.23900 | -.23000 | .00620 | 19.14430 | .02430 | .01297 |
| .597 | -1.020 | 9.94000 | 9.92000 | -0.1000 | .03715 | -.23500 | -.22700 | .00510 | 19.24870 | .02391 | .01278 |
| .597 | -.500 | 9.94000 | 9.95000 | .00000 | .03764 | -.23300 | -.22500 | .00560 | 19.00520 | .02372 | .01270 |
| .597 | .000 | 9.93000 | 9.97000 | -0.2000 | .03743 | -.23200 | -.22400 | .00730 | 19.25410 | .02358 | .01265 |
| .597 | .490 | 9.93000 | 9.97000 | -0.2000 | .03791 | -.23000 | -.22300 | .00520 | 19.35350 | .02346 | .01258 |
| .597 | 1.020 | 9.93000 | 9.97000 | -0.1000 | .03772 | -.23300 | -.22600 | .00730 | 19.09470 | .02373 | .01273 |
| .596 | 2.040 | 9.93000 | 9.91000 | .00000 | .03698 | -.24000 | -.23200 | .00550 | 19.22190 | .02440 | .01310 |
| .597 | 4.060 | 9.91000 | 9.98000 | -0.3000 | .03462 | -.25200 | -.24400 | .00510 | 19.15380 | .02567 | .01378 |
| .597 | 6.110 | 9.90000 | 9.96000 | -0.3000 | .03173 | -.26400 | -.25600 | .00620 | 19.20070 | .02687 | .01446 |
| | GRADIENT | -.00219 | -.00072 | -.00161 | .00015 | -.00015 | -.00097 | -.00005 | -.01169 | .00002 | .00006 |

PJN NO. 74/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|--------|---------|---------|---------|----------|--------|--------|
| .897 | -6.170 | 9.94000 | 10.03000 | -0.4000 | .04754 | -.27900 | -.27100 | .00650 | 19.85950 | .02843 | .01537 |
| .897 | -4.100 | 9.95000 | 10.05000 | -0.4000 | .04706 | -.26300 | -.24700 | .00840 | 20.07190 | .02681 | .01391 |
| .896 | -2.060 | 9.96000 | 10.07000 | -0.5000 | .04733 | -.25200 | -.23100 | .00410 | 19.42710 | .02566 | .01305 |
| .897 | -1.020 | 9.94000 | 10.04000 | -0.4000 | .04876 | -.24400 | -.23100 | .00590 | 19.55130 | .02487 | .01306 |
| .896 | -.490 | 9.95000 | 10.07000 | -0.5000 | .04837 | -.24300 | -.23400 | .00580 | 19.06730 | .02478 | .01319 |
| .896 | .000 | 9.96000 | 10.07000 | -0.5000 | .04887 | -.24100 | -.23400 | .00670 | 19.24430 | .02453 | .01318 |
| .897 | 1.040 | 9.93000 | 10.07000 | -0.6000 | .04897 | -.24500 | -.23700 | .00530 | 18.92770 | .02495 | .01339 |
| .897 | 2.060 | 9.93000 | 10.05000 | -0.6000 | .04874 | -.25400 | -.24500 | .00320 | 19.59230 | .02581 | .01382 |
| .896 | 4.100 | 9.92000 | 10.07000 | -0.6000 | .04774 | -.27100 | -.26600 | .00620 | 19.84360 | .02756 | .01503 |
| .896 | 6.160 | 9.97000 | 10.06000 | -0.4000 | .04728 | -.28700 | -.28400 | .00700 | 20.38730 | .02919 | .01601 |
| | GRADIENT | -.00354 | .00151 | -.00269 | .00013 | -.00095 | -.00261 | -.00026 | -.02357 | .00009 | .00015 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 299

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK086) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 173/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|---------|---------|---------|---------|----------|--------|--------|
| .948 | -6.170 | 9.93000 | 9.98000 | -.02000 | .06663 | -.32600 | -.30900 | .00560 | 20.40990 | .03317 | .01744 |
| .947 | -4.100 | 9.96000 | 9.98000 | .00000 | .06683 | -.31100 | -.28800 | .00620 | 19.83280 | .03163 | .01627 |
| .948 | -2.060 | 9.93000 | 9.93000 | -.02000 | .06752 | -.31000 | -.27700 | .00440 | 19.49640 | .03152 | .01565 |
| .948 | -1.020 | 9.92000 | 10.05000 | -.06000 | .06771 | -.31200 | -.27800 | .00420 | 19.61350 | .03171 | .01569 |
| .948 | .000 | 9.93000 | 9.98000 | -.02000 | .06756 | -.31200 | -.28000 | .00420 | 19.45620 | .03175 | .01580 |
| .947 | .500 | 9.95000 | 9.98000 | -.01000 | .06696 | -.31100 | -.28000 | .00390 | 19.61910 | .03167 | .01579 |
| .947 | 1.030 | 9.93000 | 10.06000 | -.06000 | .06757 | -.31300 | -.28200 | .00730 | 19.12220 | .03180 | .01592 |
| .947 | 2.060 | 9.92000 | 9.93000 | .00000 | .06712 | -.31900 | -.29400 | .00420 | 19.94430 | .03241 | .01660 |
| .948 | 4.110 | 9.93000 | 9.95000 | -.01000 | .06678 | -.32700 | -.31300 | .00510 | 20.16530 | .03322 | .01767 |
| .945 | 6.170 | 9.93000 | 9.95000 | .00000 | .06442 | -.32700 | -.32200 | .00930 | 20.09800 | .03330 | .01815 |
| | GRADIENT | -.00282 | -.00542 | .00014 | -.00003 | -.00188 | -.00311 | -.00005 | .03958 | .00019 | .00017 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK087) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.000 ELEVON = 10.000
 AILRON = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 232/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|----------|---------|--------|---------|---------|---------|----------|---------|---------|
| 1.198 | -6.170 | 9.96000 | 10.00000 | -.01000 | .10120 | -.37600 | -.36900 | .01420 | 20.45220 | .03824 | .02079 |
| 1.197 | -4.110 | 9.94000 | 9.98000 | -.01000 | .10177 | -.36400 | -.35700 | .01990 | 20.15090 | .03699 | .02011 |
| 1.198 | -2.060 | 9.93000 | 9.97000 | -.02000 | .10139 | -.34500 | -.34500 | .01510 | 19.87890 | .03583 | .01945 |
| 1.197 | -1.020 | 9.93000 | 9.98000 | -.02000 | .10193 | -.34600 | -.33900 | .01330 | 19.85220 | .03517 | .01912 |
| 1.197 | -.500 | 9.93000 | 9.98000 | -.02000 | .10154 | -.34200 | -.33700 | .01500 | 19.61530 | .03501 | .01903 |
| 1.198 | .010 | 9.93000 | 9.93000 | -.03000 | .10217 | -.34400 | -.33500 | .01750 | 19.87480 | .03481 | .01887 |
| 1.197 | .500 | 9.93000 | 10.00000 | -.03000 | .10225 | -.34300 | -.33400 | .01460 | 19.70100 | .03487 | .01893 |
| 1.197 | 1.030 | 9.93000 | 9.98000 | -.02000 | .10170 | -.34700 | -.33600 | .01550 | 19.43730 | .03502 | .01894 |
| 1.197 | 2.060 | 9.92000 | 10.00000 | -.03000 | .10211 | -.34700 | -.33800 | .01690 | 19.25450 | .03526 | .01905 |
| 1.197 | 4.090 | 9.92000 | 9.93000 | -.01000 | .10211 | -.35500 | -.34700 | .01480 | 19.87330 | .03607 | .01957 |
| 1.198 | 6.180 | 9.92000 | 9.95000 | -.01000 | .10075 | -.36800 | -.36400 | .01950 | 19.84090 | .03745 | .02051 |
| | GRADIENT | -.00229 | -.00113 | -.00058 | .00006 | .00112 | .00135 | -.00034 | -.06299 | -.00012 | -.00007 |

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK088) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 145/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|--------|---------|---------|---------|----------|---------|--------|
| .596 | -6.120 | 9.93000 | 9.93000 | .00000 | .01913 | -.25600 | -.23800 | .01210 | 17.36910 | .02609 | .01345 |
| .597 | -4.070 | 9.93000 | 9.97000 | -.02000 | .02104 | -.24600 | -.22900 | .01030 | 17.27830 | .02504 | .01289 |
| .597 | -2.040 | 9.93000 | 9.90000 | .01000 | .02397 | -.23400 | -.22200 | .00950 | 17.21240 | .02382 | .01251 |
| .597 | -1.010 | 9.93000 | 9.97000 | -.02000 | .02470 | -.23100 | -.21600 | .00920 | 17.22480 | .02353 | .01220 |
| .597 | -.500 | 9.92000 | 9.96000 | -.02000 | .02400 | -.23000 | -.21600 | .00690 | 17.14850 | .02341 | .01219 |
| .597 | .000 | 9.92000 | 9.98000 | -.03000 | .02433 | -.22700 | -.21200 | .00640 | 17.19220 | .02315 | .01199 |
| .597 | .500 | 9.92000 | 9.96000 | -.02000 | .02521 | -.22700 | -.21500 | .00580 | 17.17560 | .02306 | .01213 |
| .596 | 1.020 | 9.90000 | 9.95000 | -.02000 | .02520 | -.22600 | -.21500 | .00490 | 17.19440 | .02302 | .01215 |
| .596 | 2.040 | 9.90000 | 9.97000 | -.03000 | .02466 | -.23500 | -.22400 | .00560 | 17.22440 | .02309 | .01266 |
| .597 | 4.070 | 9.90000 | 9.97000 | -.03000 | .02158 | -.24600 | -.23900 | .00410 | 17.28820 | .02509 | .01347 |
| .596 | 6.120 | 9.90000 | 9.93000 | -.01000 | .01983 | -.25600 | -.24800 | .00410 | 17.30980 | .02606 | .01401 |
| | GRADIENT | -.00486 | .00278 | -.00278 | .00011 | .00010 | -.00098 | -.00076 | .00108 | -.00001 | .00006 |

RUN NO. 73/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|--------|---------|---------|---------|----------|--------|--------|
| .896 | -6.170 | 9.95000 | 10.05000 | -.04000 | .04527 | -.28100 | -.26800 | .00360 | 17.48110 | .02859 | .01511 |
| .896 | -4.110 | 9.93000 | 10.06000 | -.06000 | .04509 | -.26400 | -.24300 | .00360 | 17.43300 | .02683 | .01371 |
| .897 | -2.060 | 9.95000 | 10.08000 | -.05000 | .04678 | -.25100 | -.23100 | .00460 | 17.36110 | .02551 | .01302 |
| .897 | -1.020 | 9.93000 | 10.07000 | -.06000 | .04773 | -.24600 | -.23100 | .00620 | 17.37720 | .02504 | .01302 |
| .897 | -.500 | 9.93000 | 10.06000 | -.06000 | .04777 | -.24400 | -.23100 | .00640 | 17.35200 | .02461 | .01301 |
| .896 | .000 | 9.93000 | 10.06000 | -.06000 | .04799 | -.24200 | -.23000 | .00490 | 17.34450 | .02459 | .01300 |
| .896 | .500 | 9.93000 | 10.06000 | -.06000 | .04838 | -.24300 | -.23100 | .00350 | 17.34510 | .02472 | .01303 |
| .896 | 1.030 | 9.93000 | 10.07000 | -.06000 | .04799 | -.24600 | -.23300 | .00530 | 17.32250 | .02509 | .01317 |
| .897 | 2.060 | 9.93000 | 10.07000 | -.06000 | .04779 | -.25400 | -.24000 | .00610 | 17.37760 | .02582 | .01355 |
| .896 | 4.110 | 9.93000 | 10.08000 | -.07000 | .04641 | -.26800 | -.25900 | .00590 | 17.41140 | .02730 | .01460 |
| .896 | 6.170 | 9.93000 | 10.07000 | -.06000 | .04506 | -.28500 | -.28100 | .00520 | 17.44750 | .02899 | .01582 |
| | GRADIENT | -.00138 | .00137 | -.00138 | .00018 | .00049 | -.00192 | -.00023 | -.00255 | .00006 | .00011 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 301

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUJK088) (26 FEB '6)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YC
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.50 ELEVON = 10.000
 AILRON = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 174/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|
| .948 | -6.160 | 9.91000 | 9.99000 | -.04000 | .06293 | -.32100 | -.30300 | .00670 | 17.69260 | .03267 | .01711 |
| .948 | -4.100 | 9.94000 | 9.91000 | .01000 | .06397 | -.31200 | -.28600 | .00600 | 17.70700 | .03174 | .01616 |
| .947 | -2.060 | 9.93000 | 9.98000 | -.02000 | .06394 | -.30800 | -.27500 | .00380 | 17.63440 | .03130 | .01559 |
| .946 | -1.030 | 9.92000 | 9.93000 | .00000 | .06386 | -.30400 | -.27500 | .00600 | 17.59880 | .03095 | .01554 |
| .946 | -.500 | 9.92000 | 9.92000 | .00000 | .06447 | -.30500 | -.27700 | .00640 | 17.63820 | .03100 | .01560 |
| .947 | .000 | 9.93000 | 9.95000 | -.01000 | .06483 | -.30500 | -.27900 | .00440 | 17.59000 | .03108 | .01574 |
| .946 | .510 | 9.92000 | 9.93000 | .00000 | .06503 | -.30400 | -.27900 | .00360 | 17.63510 | .03095 | .01575 |
| .946 | 1.020 | 9.92000 | 9.96000 | -.02000 | .06411 | -.30600 | -.28000 | .00390 | 17.60830 | .03117 | .01582 |
| .946 | 2.060 | 9.92000 | 9.94000 | -.01000 | .06419 | -.31000 | -.28800 | .00420 | 17.68560 | .03150 | .01624 |
| .946 | 4.100 | 9.92000 | 9.96000 | -.02000 | .06301 | -.31800 | -.30500 | .00440 | 17.67570 | .03236 | .01718 |
| .947 | 6.170 | 9.92000 | 9.98000 | -.03000 | .06318 | -.32300 | -.32000 | .00440 | 17.69100 | .03289 | .01805 |
| | GRADIENT | -.00229 | .00354 | -.00275 | -.00066 | -.00068 | -.00243 | -.00021 | -.00032 | -.00007 | -.00013 |

RUN NO. 288/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|--------|---------|---------|---------|----------|--------|--------|
| .978 | -6.160 | 9.69000 | 10.00000 | -.15000 | .07326 | -.38400 | -.36000 | .00660 | 17.62660 | .03905 | .02032 |
| .977 | -4.110 | 9.69000 | 10.01000 | -.16000 | .07368 | -.37300 | -.33900 | .00640 | 17.60980 | .03799 | .01910 |
| .977 | -2.060 | 9.68000 | 10.00000 | -.15000 | .07395 | -.37000 | -.32900 | .00360 | 17.59910 | .03767 | .01854 |
| .977 | -1.030 | 9.68000 | 10.00000 | -.15000 | .07471 | -.36500 | -.33300 | .00730 | 17.54520 | .03716 | .01875 |
| .977 | -.500 | 9.67000 | 10.00000 | -.16000 | .07490 | -.36800 | -.33600 | .00490 | 17.57460 | .03744 | .01895 |
| .978 | .000 | 9.69000 | 10.03000 | -.17000 | .07513 | -.36900 | -.33700 | .00550 | 17.55230 | .03749 | .01898 |
| .977 | .500 | 9.68000 | 10.05000 | -.18000 | .07482 | -.37100 | -.34000 | .00460 | 17.59950 | .03775 | .01920 |
| .978 | 1.030 | 9.67000 | 10.02000 | -.17000 | .07480 | -.37300 | -.34300 | .00550 | 17.54070 | .03794 | .01937 |
| .978 | 2.060 | 9.68000 | 9.99000 | -.15000 | .07437 | -.38100 | -.35400 | .00320 | 17.59860 | .03874 | .01998 |
| .977 | 4.100 | 9.67000 | 10.04000 | -.18000 | .07384 | -.37700 | -.36300 | .00570 | 17.56820 | .03833 | .02046 |
| .977 | 6.170 | 9.67000 | 9.98000 | -.15000 | .07286 | -.38200 | -.37500 | .01230 | 17.64200 | .03888 | .02113 |
| | GRADIENT | -.00195 | .00330 | -.00251 | .00004 | -.00109 | -.00362 | -.00013 | -.00027 | .00010 | .00021 |

(SUK088) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 240/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|----------|----------|--------|---------|---------|---------|----------|---------|--------|
| 1.043 | -6.170 | 9.93000 | 10.07000 | -0.06000 | .09069 | -4.5600 | -4.4400 | .00600 | 17.71210 | .04634 | .02505 |
| 1.047 | -4.110 | 9.92000 | 9.99000 | -0.30000 | .09163 | -4.5400 | -4.3300 | .00970 | 17.72810 | .04617 | .02444 |
| 1.047 | -2.070 | 9.91000 | 10.03000 | -0.06000 | .09222 | -4.4400 | -4.1400 | .00450 | 17.71850 | .04470 | .02335 |
| 1.048 | -1.030 | 9.91000 | 10.14000 | -1.10000 | .09251 | -4.3100 | -4.0900 | .00390 | 17.67000 | .04384 | .02302 |
| 1.048 | -.500 | 9.90000 | 10.03000 | -0.06000 | .09268 | -4.3200 | -4.0900 | .00500 | 17.66340 | .04392 | .02305 |
| 1.049 | .000 | 9.90000 | 9.98000 | -0.40000 | .09294 | -4.3200 | -4.1000 | .00420 | 17.65700 | .04395 | .02312 |
| 1.047 | .510 | 9.90000 | 10.11000 | -1.00000 | .09285 | -4.3500 | -4.1500 | .00390 | 17.66720 | .04424 | .02341 |
| 1.048 | 1.020 | 9.90000 | 10.04000 | -0.70000 | .09285 | -4.3500 | -4.1800 | .00350 | 17.63900 | .04435 | .02354 |
| 1.047 | 2.070 | 9.90000 | 10.06000 | -0.70000 | .09356 | -4.3600 | -4.2600 | .00430 | 17.68210 | .04434 | .02402 |
| 1.048 | 4.110 | 9.89000 | 10.14000 | -1.20000 | .09304 | -4.4000 | -4.3600 | .00500 | 17.70560 | .04470 | .02461 |
| 1.047 | 6.170 | 9.89000 | 10.02000 | -0.06000 | .09146 | -4.4800 | -4.4800 | .00570 | 17.70460 | .04562 | .02528 |
| | GRADIENT | -.00343 | .01371 | -.00822 | .00019 | .00132 | -.00112 | -.00037 | -.00439 | -.00014 | .00005 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK089) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000
 AILRON = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 233/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|----------|----------|--------|---------|---------|---------|----------|---------|---------|
| 1.197 | -6.160 | 9.97000 | 9.94000 | .01000 | .09923 | -3.6200 | -3.5500 | .02080 | 17.93200 | .03683 | .02002 |
| 1.198 | -4.100 | 9.93000 | 10.02000 | -0.40000 | .10078 | -3.5400 | -3.4500 | .01880 | 17.90830 | .03598 | .01946 |
| 1.197 | -2.050 | 9.92000 | 9.94000 | -0.10000 | .10084 | -3.4400 | -3.3000 | .01680 | 17.86250 | .03496 | .01858 |
| 1.198 | -1.010 | 9.92000 | 9.99000 | -0.30000 | .10064 | -3.3800 | -3.2500 | .01020 | 17.83230 | .03443 | .01833 |
| 1.197 | -.500 | 9.92000 | 10.03000 | -0.05000 | .10045 | -3.3900 | -3.2400 | .01280 | 17.82160 | .03446 | .01827 |
| 1.199 | .000 | 9.92000 | 9.96000 | -0.20000 | .10091 | -3.3700 | -3.2200 | .01330 | 17.84820 | .03432 | .01813 |
| 1.197 | .510 | 9.92000 | 9.96000 | -0.20000 | .10088 | -3.3800 | -3.2400 | .01050 | 17.82310 | .03439 | .01825 |
| 1.198 | 1.020 | 9.92000 | 9.96000 | -0.20000 | .10094 | -3.3700 | -3.2400 | .00790 | 17.80170 | .03431 | .01828 |
| 1.197 | 2.060 | 9.92000 | 9.93000 | -0.10000 | .10129 | -3.4000 | -3.2800 | .00970 | 17.84740 | .03459 | .01852 |
| 1.197 | 4.110 | 9.92000 | 10.06000 | -0.70000 | .10091 | -3.5000 | -3.4200 | .01580 | 17.82390 | .03563 | .01927 |
| 1.197 | 6.170 | 9.92000 | 9.92000 | .00000 | .10021 | -3.5900 | -3.5400 | .02050 | 17.85050 | .03652 | .01996 |
| | GRADIENT | -.00092 | .00266 | -.00219 | .00004 | .00058 | -.00039 | -.00072 | -.00858 | -.00005 | -.00002 |

(SUK090) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 8.000 ELEVON = 10.000
 AIRLON = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 165/ 0 RN/L = 7.71 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AIRLON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|---------|---------|---------|---------|----------|--------|--------|
| .900 | -2.100 | 9.94000 | 10.01000 | -.03000 | .04873 | -.24500 | -.22400 | .00510 | 17.41570 | .02489 | .01266 |
| .900 | -1.040 | 9.94000 | 10.03000 | -.04000 | .04936 | -.24000 | -.22400 | .00650 | 17.40130 | .02444 | .01262 |
| .900 | -.500 | 9.94000 | 10.03000 | -.04000 | .04980 | -.23600 | -.22200 | .00700 | 17.39480 | .02402 | .01251 |
| .900 | .010 | 9.94000 | 10.03000 | -.04000 | .05022 | -.23300 | -.21900 | .00660 | 17.38360 | .02375 | .01233 |
| .901 | .520 | 9.93000 | 10.02000 | -.04000 | .05006 | -.23600 | -.22000 | .00710 | 17.32900 | .02398 | .01241 |
| .900 | 1.060 | 9.93000 | 10.02000 | -.04000 | .05057 | -.23900 | -.22200 | .00530 | 17.41490 | .02430 | .01252 |
| .900 | 2.130 | 9.93000 | 10.01000 | -.03000 | .04965 | -.24600 | -.22700 | .00490 | 17.40540 | .02506 | .01280 |
| .900 | 4.210 | 9.97000 | 10.01000 | -.01000 | .04868 | -.26100 | -.24800 | .00650 | 17.44840 | .02552 | .01401 |
| .899 | 6.310 | 9.93000 | 10.00000 | -.03000 | .04797 | -.29000 | -.27100 | .00490 | 17.48410 | .02853 | .01530 |
| | GRADIENT | .00329 | -.00213 | .00368 | -.00002 | -.00299 | -.00357 | -.00000 | .00651 | .00030 | .00020 |

J BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK091) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 AIRLON = .000 ALPHA = 10.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 146/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AIRLON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|--------|
| .597 | -6.110 | 9.92000 | 9.97000 | -.02000 | -.01145 | -.23600 | -.23600 | .00680 | 16.92820 | .02510 | .01332 |
| .597 | -4.070 | 9.90000 | 9.95000 | -.02000 | -.01010 | -.24600 | -.22200 | .00510 | 16.89430 | .02509 | .01252 |
| .597 | -2.040 | 9.90000 | 9.90000 | -.03000 | -.00756 | -.23500 | -.21000 | .00380 | 16.87130 | .02391 | .01187 |
| .597 | -1.010 | 9.91000 | 9.94000 | -.01000 | -.00719 | -.23100 | -.20900 | .00340 | 16.85240 | .02348 | .01178 |
| .597 | -.500 | 9.90000 | 9.96000 | -.03000 | -.00682 | -.23000 | -.20800 | .00550 | 16.82960 | .02338 | .01173 |
| .597 | .000 | 9.90000 | 9.95000 | -.02000 | -.00651 | -.23000 | -.20900 | .00490 | 16.83030 | .02345 | .01179 |
| .597 | .500 | 9.90000 | 9.96000 | -.03000 | -.00670 | -.23100 | -.21100 | .00320 | 16.82840 | .02348 | .01189 |
| .597 | 1.020 | 9.93000 | 9.97000 | -.04000 | -.00639 | -.22900 | -.21100 | .00420 | 16.83180 | .02334 | .01190 |
| .597 | 2.040 | 9.90000 | 9.94000 | -.02000 | -.00735 | -.23300 | -.21600 | .00230 | 16.82790 | .02371 | .01221 |
| .597 | 4.070 | 9.84000 | 9.96000 | -.03000 | -.00827 | -.23900 | -.22500 | .00390 | 16.86680 | .02442 | .01267 |
| .597 | 6.110 | 9.90000 | 9.97000 | -.03000 | -.01040 | -.25600 | -.24300 | .00510 | 16.89690 | .02592 | .01371 |
| | GRADIENT | -.00185 | -.00023 | -.00115 | .00020 | .00078 | -.00063 | -.00020 | -.00308 | -.00008 | .00003 |

(SUK091) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

MACH = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 72/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|----------|---------|---------|--------|----------|---------|--------|
| .897 | -6.180 | 9.93000 | 10.03000 | -0.5000 | 0.4242 | -2.9900 | -2.7500 | 0.0750 | 17.12460 | 0.3047 | 0.1553 |
| .896 | -4.110 | 9.93000 | 10.05000 | -0.6000 | 0.4261 | -2.9100 | -2.5800 | 0.0640 | 17.09120 | 0.2961 | 0.1456 |
| .897 | -2.060 | 9.93000 | 10.05000 | -0.6000 | 0.4349 | -2.9600 | -2.5000 | 0.0550 | 17.05200 | 0.2913 | 0.1411 |
| .897 | -1.020 | 9.93000 | 10.05000 | -0.6000 | 0.4424 | -2.8500 | -2.5100 | 0.0540 | 17.05920 | 0.2897 | 0.1414 |
| .897 | -.500 | 9.92000 | 10.04000 | -0.6000 | 0.4427 | -2.8400 | -2.5000 | 0.0660 | 17.04810 | 0.2895 | 0.1412 |
| .896 | .000 | 9.93000 | 10.04000 | -0.5000 | 0.4406 | -2.8300 | -2.5100 | 0.0860 | 17.05850 | 0.2879 | 0.1414 |
| .897 | .500 | 9.93000 | 10.03000 | -0.5000 | 0.4401 | -2.8300 | -2.5400 | 0.0830 | 17.04810 | 0.2900 | 0.1433 |
| .897 | 1.030 | 9.93000 | 10.05000 | -0.6000 | 0.4418 | -2.8500 | -2.5600 | 0.0860 | 17.06830 | 0.2899 | 0.1443 |
| .897 | 2.070 | 9.93000 | 10.05000 | -0.6000 | 0.4347 | -2.8500 | -2.5900 | 0.0630 | 17.07790 | 0.2897 | 0.1462 |
| .897 | 4.110 | 9.93000 | 10.07000 | -0.6000 | 0.4236 | -2.8500 | -2.7000 | 0.0730 | 17.08310 | 0.2911 | 0.1523 |
| .897 | 6.180 | 9.93000 | 10.07000 | -0.7000 | 0.4230 | -2.8200 | -2.8400 | 0.0670 | 17.09730 | 0.2977 | 0.1599 |
| | GRADIENT | -.00035 | .00172 | .00011 | -.000033 | .00049 | -.00167 | .00021 | .00066 | -.00005 | .00009 |

RUN NO. 172/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|--------|---------|---------|--------|----------|--------|--------|
| .948 | -6.160 | 9.93000 | 9.97000 | -0.2000 | 0.5553 | -3.4500 | -3.2000 | 0.0650 | 17.31860 | 0.3514 | 0.1804 |
| .948 | -4.110 | 9.92000 | 10.00000 | -0.4000 | 0.5566 | -3.3300 | -2.9700 | 0.0350 | 17.31840 | 0.3383 | 0.1674 |
| .947 | -2.060 | 9.94000 | 10.01000 | -0.3000 | 0.5666 | -3.2400 | -2.8200 | 0.0680 | 17.32220 | 0.3296 | 0.1589 |
| .947 | -1.020 | 9.93000 | 10.05000 | -0.6000 | 0.5706 | -3.2200 | -2.8100 | 0.0540 | 17.32640 | 0.3261 | 0.1583 |
| .947 | -.500 | 9.91000 | 10.02000 | -0.5000 | 0.5751 | -3.2400 | -2.8200 | 0.0750 | 17.30220 | 0.3298 | 0.1588 |
| .948 | .000 | 9.91000 | 9.95000 | -0.2000 | 0.5773 | -3.2600 | -2.8300 | 0.0440 | 17.32030 | 0.3320 | 0.1594 |
| .946 | .510 | 9.91000 | 10.05000 | -0.7000 | 0.5684 | -3.2400 | -2.8300 | 0.0510 | 17.30680 | 0.3297 | 0.1595 |
| .947 | 1.030 | 9.91000 | 10.04000 | -0.6000 | 0.5693 | -3.2500 | -2.8600 | 0.0370 | 17.30900 | 0.3312 | 0.1612 |
| .947 | 2.070 | 9.90000 | 10.00000 | -0.5000 | 0.5665 | -3.2900 | -2.9500 | 0.0480 | 17.31770 | 0.3346 | 0.1666 |
| .948 | 4.110 | 9.89000 | 9.99000 | -0.5000 | 0.5652 | -3.3100 | -3.1000 | 0.0710 | 17.33830 | 0.3366 | 0.1749 |
| .948 | 6.170 | 9.85000 | 9.97000 | -0.5000 | 0.5623 | -3.3800 | -3.2800 | 0.0530 | 17.32150 | 0.3442 | 0.1850 |
| | GRADIENT | -.00596 | -.00126 | -.00206 | .00007 | -.00012 | -.00191 | .00017 | .00127 | .00001 | .00011 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO ELEVON = 10.000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO ALPHA = 10.000
 BREF = 936.8800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000
 SCALE = .0150 RUDDER = .000
BOFLAP = .000

RUN NO. 289/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|--------|---------|---------|--------|----------|--------|--------|
| .977 | -6.160 | 9.70000 | 9.95000 | -1.2000 | .06705 | -4.1600 | -39100 | .00790 | 17.33310 | .04227 | .02204 |
| .977 | -4.100 | 9.69000 | 9.96000 | -1.3000 | .06696 | -4.0200 | -36400 | .00480 | 17.35010 | .04085 | .02051 |
| .978 | -2.050 | 9.68000 | 10.03000 | -1.7000 | .06652 | -4.0200 | -36100 | .00360 | 17.33300 | .04092 | .02036 |
| .978 | -1.020 | 9.68000 | 10.04000 | -1.8000 | .06695 | -39700 | -35700 | .00420 | 17.32770 | .04037 | .02014 |
| .977 | -.500 | 9.68000 | 9.98000 | -1.4000 | .06591 | -39700 | -35500 | .00420 | 17.33440 | .04039 | .02003 |
| .978 | .000 | 9.69000 | 9.94000 | -1.3000 | .06553 | -39900 | -35700 | .00580 | 17.31160 | .04061 | .02011 |
| .978 | .500 | 9.68000 | 10.02000 | -1.7000 | .06709 | -4.0000 | -35900 | .00430 | 17.33360 | .04071 | .02024 |
| .977 | 1.020 | 9.68000 | 9.94000 | -1.3000 | .06630 | -4.0100 | -36300 | .00520 | 17.33820 | .04093 | .02045 |
| .978 | 2.060 | 9.58000 | 10.03000 | -1.5000 | .06688 | -4.0900 | -37700 | .00600 | 17.35330 | .04156 | .02125 |
| .977 | 4.100 | 9.67000 | 10.06000 | -1.9000 | .06735 | -4.0200 | -38400 | .00390 | 17.35330 | .04088 | .02164 |
| .977 | 6.170 | 9.67000 | 10.04000 | -1.8000 | .06722 | -4.0500 | -39600 | .00510 | 17.34360 | .04118 | .02230 |
| | GRADIENT | -.00184 | .00597 | -.00378 | .00004 | -.00045 | -.00276 | .00005 | .00146 | .00005 | .00015 |

RUN NO. 241/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|----------|---------|--------|---------|---------|--------|----------|--------|--------|
| 1.047 | -6.170 | 9.91000 | 10.00000 | -0.4000 | .08445 | -4.7600 | -46600 | .00390 | 17.44630 | .04840 | .02629 |
| 1.047 | -4.100 | 9.89000 | 10.14000 | -1.2000 | .08483 | -4.6600 | -44700 | .00220 | 17.44690 | .04741 | .02519 |
| 1.048 | -2.050 | 9.89000 | 10.03000 | -0.7000 | .08511 | -4.5100 | -42900 | .00340 | 17.43670 | .04592 | .02418 |
| 1.047 | -1.020 | 9.89000 | 10.07000 | -0.8000 | .08477 | -4.5100 | -43200 | .00410 | 17.41910 | .04585 | .02435 |
| 1.048 | .500 | 9.89000 | 10.07000 | -0.8000 | .08512 | -4.5000 | -43300 | .00510 | 17.42240 | .04581 | .02442 |
| 1.046 | .000 | 9.89000 | 10.16000 | -1.3000 | .08514 | -4.5200 | -43700 | .00500 | 17.41430 | .04594 | .02463 |
| 1.048 | .510 | 9.89000 | 10.14000 | -1.2000 | .08487 | -4.5400 | -43900 | .00330 | 17.40630 | .04477 | .02477 |
| 1.048 | 1.030 | 9.89000 | 10.05000 | -0.8000 | .08528 | -4.4200 | -43500 | .00500 | 17.39680 | .04633 | .02494 |
| 1.048 | 2.060 | 9.89000 | 10.12000 | -1.1000 | .08512 | -4.5900 | -45000 | .00480 | 17.42960 | .04670 | .02537 |
| 1.047 | 4.110 | 9.89000 | 9.97900 | -0.4000 | .08677 | -4.6400 | -46400 | .00480 | 17.45320 | .04720 | .02616 |
| 1.047 | 6.180 | 9.89000 | 10.00000 | -.05000 | .08613 | -4.7200 | -47300 | .00530 | 17.42210 | .04798 | .02666 |
| | GRADIENT | .00000 | -.01091 | .00505 | .00023 | -.00032 | -.00282 | .00031 | -.00044 | .00003 | .00016 |

PARAMETRIC DATA

TABULATED SOURCE DATA. CALSPAN T18-103 (LA70)

(SUK091) (26 FEB 76)
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

RUN NO. 299/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|-----------|--------|---------|---------|---------|--------|----------|--------|--------|
| 1.116 | -4.120 | -9.99000 | -10.16000 | .08000 | .09316 | -.40500 | -.39200 | .01100 | 15.74350 | .04116 | .02213 |
| 1.117 | -2.060 | -9.98000 | -10.16000 | .08000 | .09198 | -.40300 | -.39000 | .01390 | 15.77220 | .04099 | .02197 |
| 1.116 | -1.030 | -9.99000 | -10.16000 | .08000 | .09152 | -.40100 | -.38900 | .01040 | 15.76510 | .04074 | .02192 |
| 1.117 | -.490 | -9.98000 | -10.16000 | .08000 | .09153 | -.39900 | -.38900 | .00900 | 15.78090 | .04059 | .02191 |
| 1.117 | .000 | -9.98000 | -10.17000 | .09000 | .09168 | -.40000 | -.38900 | .01100 | 15.77080 | .04067 | .02194 |
| 1.117 | .510 | -9.99000 | -10.17000 | .07000 | .09167 | -.40100 | -.39000 | .00900 | 15.77420 | .04075 | .02200 |
| 1.117 | 1.030 | -9.98000 | -10.17000 | .09000 | .09248 | -.40300 | -.39200 | .00980 | 15.76420 | .04104 | .02212 |
| 1.118 | 2.070 | -9.99000 | -10.19000 | .10000 | .09249 | -.40900 | -.39600 | .01210 | 15.75910 | .04157 | .02231 |
| 1.117 | 4.120 | -9.96000 | -10.16000 | .08000 | .09197 | -.41700 | -.40300 | .01380 | 15.73240 | .04243 | .02273 |
| 1.117 | 6.190 | -9.98000 | -10.17000 | .09000 | .09168 | -.42700 | -.41000 | .01370 | 15.69650 | .04342 | .02312 |
| | GRADIENT | .00057 | -.00149 | .00103 | -.00006 | -.00144 | -.00136 | .00016 | -.00170 | .00015 | .00008 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK092) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

RUN NO. 234/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|----------|---------|--------|---------|---------|---------|----------|--------|--------|
| 1.197 | -6.150 | 9.93000 | 10.07000 | -.07000 | .09266 | -.37600 | -.36700 | .02820 | 17.54760 | .03824 | .02070 |
| 1.198 | -4.090 | 9.92000 | 10.08000 | -.08000 | .09367 | -.36200 | -.35100 | .01590 | 17.55700 | .03581 | .01982 |
| 1.198 | -2.050 | 9.92000 | 10.10000 | -.09000 | .09326 | -.35200 | -.34100 | .00940 | 17.52600 | .03585 | .01925 |
| 1.197 | -1.020 | 9.92000 | 9.91000 | .00000 | .09250 | -.35200 | -.34000 | .00650 | 17.53240 | .03580 | .01920 |
| 1.198 | -.490 | 9.92000 | 10.07000 | -.07000 | .09296 | -.35100 | -.34000 | .00730 | 17.53910 | .03566 | .01915 |
| 1.197 | .000 | 9.92000 | 9.88000 | .01000 | .09290 | -.35200 | -.34100 | .00730 | 17.52040 | .03578 | .01921 |
| 1.198 | .510 | 9.92000 | 9.88000 | .01000 | .09321 | -.35100 | -.34200 | .01100 | 17.52640 | .03570 | .01928 |
| 1.198 | 1.030 | 9.91000 | 10.04000 | -.06000 | .09328 | -.34400 | -.34400 | .00810 | 17.52070 | .03584 | .01940 |
| 1.198 | 2.060 | 9.92000 | 10.07000 | -.07000 | .09399 | -.35300 | -.34600 | .01090 | 17.51640 | .03587 | .01953 |
| 1.199 | 4.100 | 9.92000 | 10.07000 | -.07000 | .09416 | -.36800 | -.36300 | .01130 | 17.49710 | .03759 | .02047 |
| 1.198 | 6.180 | 9.93000 | 9.97000 | -.01000 | .09406 | -.37800 | -.37200 | .02310 | 17.49670 | .03841 | .02098 |
| | GRADIENT | -.00023 | -.00144 | .00136 | .00010 | -.00060 | -.00145 | -.00027 | -.00635 | .00006 | .00008 |

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000
AILRON = .000 ALPHA = 10.000
CFIT = 1.000 SPOBRK = 25.000
RUDDER = .000 BDFLAP = .000

RN/L = 3.999 ELEVON = 10.000
AILRON = .000 ALPHA = 10.000
CFIT = 1.000 SPOBRK = 25.000
RUDDER = .000 BDFLAP = .000

LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK093) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 147/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPE | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|--------|----------|---------|--------|
| .596 | -6.120 | 9.90000 | 9.95000 | -.02000 | -.02323 | -.26300 | -.24500 | .00550 | 16.77050 | .02682 | .01385 |
| .596 | -4.070 | 9.90000 | 9.96000 | -.03000 | -.02379 | -.25800 | -.23100 | .00490 | 16.74870 | .02623 | .01303 |
| .597 | -2.040 | 9.89000 | 9.95000 | -.03000 | -.02081 | -.25200 | -.22500 | .00550 | 16.71360 | .02565 | .01268 |
| .597 | -1.010 | 9.90000 | 9.94000 | -.02000 | -.01981 | -.24900 | -.22600 | .00600 | 16.69880 | .02530 | .01275 |
| .597 | -.500 | 9.91000 | 9.95000 | -.02000 | -.01945 | -.24500 | -.22400 | .00530 | 16.71780 | .02490 | .01265 |
| .597 | .000 | 9.90000 | 9.94000 | -.02000 | -.01859 | -.24700 | -.22700 | .00660 | 16.69500 | .02510 | .01281 |
| .596 | .500 | 9.91000 | 9.95000 | -.02000 | -.01875 | -.24400 | -.22500 | .00730 | 16.71680 | .02481 | .01272 |
| .597 | 1.020 | 9.90000 | 9.94000 | -.02000 | -.01805 | -.24500 | -.22700 | .00510 | 16.71080 | .02492 | .01293 |
| .597 | 2.040 | 9.91000 | 9.96000 | -.02000 | -.01849 | -.24500 | -.22900 | .00680 | 16.71970 | .02490 | .01291 |
| .597 | 4.070 | 9.90000 | 9.96000 | -.03000 | -.01906 | -.25500 | -.24300 | .00500 | 16.76640 | .02596 | .01371 |
| .597 | 6.110 | 9.90000 | 9.93000 | -.01000 | -.01955 | -.26500 | -.25300 | .00380 | 16.76840 | .02532 | .01428 |
| | GRADIENT | .00093 | .00046 | .00046 | .00059 | .00071 | -.00133 | .00016 | .00218 | -.00007 | .00008 |

RUN NO. 71/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|--------|---------|---------|--------|----------|---------|--------|
| .896 | -6.210 | 9.93000 | 10.04000 | -.05000 | .04193 | -.34300 | -.32400 | .01020 | 17.00480 | .03491 | .01929 |
| .897 | -4.130 | 9.93000 | 10.04000 | -.05000 | .04467 | -.34500 | -.32000 | .00780 | 17.00190 | .03508 | .01805 |
| .897 | -2.070 | 9.93000 | 10.04000 | -.05000 | .04569 | -.34300 | -.31000 | .00870 | 16.99340 | .03468 | .01747 |
| .897 | -1.030 | 9.93000 | 10.04000 | -.05000 | .04655 | -.34200 | -.30800 | .01140 | 17.00280 | .03476 | .01735 |
| .897 | -.500 | 9.93000 | 10.04000 | -.05000 | .04653 | -.34000 | -.30700 | .01170 | 16.99790 | .03463 | .01731 |
| .897 | .000 | 9.93000 | 10.04000 | -.05000 | .04691 | -.33900 | -.30800 | .01110 | 16.98230 | .03450 | .01738 |
| .896 | .510 | 9.92000 | 10.05000 | -.06000 | .04747 | -.33600 | -.30900 | .00810 | 16.99970 | .03417 | .01742 |
| .896 | 1.040 | 9.93000 | 10.05000 | -.06000 | .04772 | -.33500 | -.30900 | .01880 | 17.01210 | .03404 | .01743 |
| .897 | 2.080 | 9.92000 | 10.05000 | -.06000 | .04689 | -.33600 | -.31600 | .01260 | 17.00490 | .03417 | .01783 |
| .896 | 4.140 | 9.94000 | 10.05000 | -.05000 | .04504 | -.34000 | -.32500 | .01000 | 17.01580 | .03455 | .01832 |
| .896 | 6.210 | 9.93000 | 10.07000 | -.06000 | .04224 | -.33300 | -.32400 | .00960 | 16.99720 | .03388 | .01828 |
| | GRADIENT | .00034 | .00171 | -.00080 | .00013 | .00098 | -.00077 | .00051 | .00202 | -.00010 | .00004 |

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK093) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L =
 AIRLON =
 GRIT =
 RUDDER =
 4.500 ELEVON = 10.000
 1.000 ALPHA = 15.000
 .000 SPDBRK = 25.000
 .000 BDFLAP = .000

| MACH | BETA | ELVN-L | ELVN-R | AIRLON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|--------|---------|---------|--------|----------|---------|--------|
| .948 | -6.160 | 9.93000 | 9.94000 | .00000 | .05225 | -.39700 | -.38500 | .00680 | 17.11420 | .04043 | .02172 |
| .947 | -4.090 | 9.93000 | 9.88000 | .02000 | .05369 | -.38700 | -.36000 | .00740 | 17.12520 | .03936 | .02033 |
| .946 | -2.040 | 9.93000 | 10.07000 | -.06000 | .05413 | -.38200 | -.33700 | .00750 | 17.14130 | .03890 | .01902 |
| .947 | -1.000 | 9.93000 | 10.07000 | -.06000 | .05377 | -.38200 | -.33300 | .00620 | 17.14610 | .03887 | .01881 |
| .948 | -.480 | 9.92000 | 10.00000 | -.03000 | .05432 | -.38300 | -.33400 | .00860 | 17.14810 | .03897 | .01886 |
| .948 | .020 | 9.93000 | 9.94000 | .00000 | .05394 | -.38400 | -.33600 | .00810 | 17.15290 | .03911 | .01893 |
| .946 | .530 | 9.93000 | 9.93000 | .00000 | .05463 | -.37800 | -.33400 | .00800 | 17.15090 | .03841 | .01885 |
| .946 | 1.050 | 9.92000 | 9.99000 | -.03000 | .05511 | -.37800 | -.33600 | .00690 | 17.15290 | .03847 | .01894 |
| .947 | 2.090 | 9.92000 | 10.08000 | -.08000 | .05537 | -.37300 | -.34000 | .00800 | 17.14450 | .03799 | .01915 |
| .948 | 4.100 | 9.92000 | 9.93000 | .00000 | .05449 | -.38600 | -.36600 | .00830 | 17.17220 | .03925 | .02062 |
| .948 | 6.170 | 9.93000 | 9.98000 | -.02000 | .05222 | -.38800 | -.37700 | .00570 | 17.12270 | .03947 | .02125 |
| | GRADIENT | -.00150 | .00250 | -.00177 | .00017 | .00066 | -.00074 | .00011 | .00462 | -.00007 | .00003 |

RUN NO. 171/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 242/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AIRLON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|----------|---------|---------|---------|---------|--------|----------|---------|--------|
| 1.047 | -6.190 | 9.90000 | 10.07000 | -.08000 | .07860 | -.49800 | -.48900 | .00500 | 17.17550 | .05066 | .02755 |
| 1.048 | -4.110 | 9.89000 | 10.06000 | -.08000 | .07880 | -.48800 | -.46600 | .00440 | 17.18690 | .04968 | .02629 |
| 1.047 | -2.070 | 9.89000 | 10.04000 | -.07000 | .07955 | -.48200 | -.45700 | .00650 | 17.19110 | .04898 | .02574 |
| 1.047 | -1.030 | 9.89000 | 10.03000 | -.07000 | .07909 | -.48200 | -.45800 | .00640 | 17.19200 | .04903 | .02583 |
| 1.049 | -.510 | 9.90000 | 10.04000 | -.07000 | .07970 | -.48000 | -.45600 | .00780 | 17.20890 | .04886 | .02573 |
| 1.047 | .000 | 9.89000 | 10.05000 | -.08000 | .07919 | -.48100 | -.45800 | .00740 | 17.19410 | .04897 | .02582 |
| 1.048 | .510 | 9.89000 | 10.04000 | -.07000 | .07961 | -.48100 | -.45800 | .00970 | 17.19240 | .04988 | .02582 |
| 1.047 | 1.030 | 9.89000 | 10.05000 | -.08000 | .07940 | -.48200 | -.46100 | .00890 | 17.19340 | .04904 | .02598 |
| 1.047 | 2.070 | 9.89000 | 10.05000 | -.08000 | .07906 | -.48500 | -.46800 | .00850 | 17.19750 | .04943 | .02640 |
| 1.047 | 4.120 | 9.89000 | 10.06000 | -.08000 | .07865 | -.48900 | -.48300 | .00590 | 17.20260 | .04974 | .02726 |
| 1.048 | 6.180 | 9.88000 | 10.06000 | -.08000 | .07960 | -.48800 | -.49600 | .00480 | 17.18250 | .05067 | .02797 |
| | GRADIENT | -.00011 | .00092 | -.00069 | -.00003 | -.00029 | -.00215 | .00031 | .00158 | -.00003 | .00012 |

REFERENCE DATA
 SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0 RN/L = 4.000 ELEVON = 10.000
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0 AILRON = .000 ALPHA = 15.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0 GRIT = 1.000 SPOBRK = 25.000
 SCALE = .0150 RUDDER = .000 BOFLAP = .000

RUN NO. 235/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|----------|---------|--------|---------|---------|--------|----------|--------|--------|
| 1.196 | -6.170 | 9.91000 | 10.12000 | -1.0000 | .08719 | -.39700 | -.38700 | .02700 | 17.32730 | .04042 | .02182 |
| 1.197 | -4.110 | 9.92000 | 10.10000 | -.09000 | .08636 | -.39000 | -.37000 | .01750 | 17.31760 | .03970 | .02088 |
| 1.199 | -2.060 | 9.86000 | 9.99000 | -.06000 | .08543 | -.39000 | -.36800 | .01210 | 17.28860 | .03960 | .02073 |
| 1.198 | -1.020 | 9.86000 | 9.98000 | -.05000 | .08561 | -.38900 | -.37000 | .01110 | 17.28730 | .03950 | .02089 |
| 1.199 | -.490 | 9.87000 | 9.98000 | -.05000 | .08518 | -.38900 | -.37000 | .01050 | 17.29040 | .03955 | .02088 |
| 1.199 | .000 | 9.86000 | 9.99000 | -.06000 | .08549 | -.39000 | -.37200 | .01120 | 17.29610 | .03964 | .02098 |
| 1.198 | .510 | 9.86000 | 9.99000 | -.06000 | .08556 | -.39100 | -.37300 | .01210 | 17.29190 | .03983 | .02106 |
| 1.198 | 1.040 | 9.86000 | 10.01000 | -.07000 | .08587 | -.39300 | -.37500 | .01000 | 17.29830 | .03996 | .02117 |
| 1.199 | 2.070 | 9.96000 | 10.00000 | -.06000 | .08656 | -.39100 | -.38000 | .01450 | 17.29080 | .03975 | .02141 |
| 1.198 | 4.120 | 9.86000 | 9.99000 | -.06000 | .08732 | -.40100 | -.39400 | .01660 | 17.30870 | .04083 | .02219 |
| 1.198 | 6.190 | 9.86000 | 9.98000 | -.05000 | .08797 | -.40200 | -.39500 | .01960 | 17.30940 | .04033 | .02226 |
| 1.198 | GRADIENT | -.00550 | -.00880 | .00218 | .00015 | -.00116 | -.00289 | .00002 | -.00045 | .00012 | .00016 |

REFERENCE DATA
 SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0 RN/L = 4.500 ELEVON = 10.000
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0 AILRON = .000 ALPHA = 20.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0 GRIT = 1.000 SPOBRK = 25.000
 SCALE = .0150 RUDDER = .000 BOFLAP = .000

RUN NO. 148/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|---------|---------|---------|---------|---------|--------|----------|---------|---------|
| .597 | -6.120 | 9.89000 | 9.94000 | -.02000 | -.01867 | -.29900 | -.28800 | .01180 | 16.74040 | .03041 | .01623 |
| .597 | -4.070 | 9.90000 | 9.96000 | -.03000 | -.01786 | -.29800 | -.28100 | .00600 | 16.72580 | .03033 | .01583 |
| .597 | -2.040 | 9.91000 | 9.97000 | -.03000 | -.01528 | -.30100 | -.28500 | .00640 | 16.71640 | .03061 | .01606 |
| .597 | -1.010 | 9.92000 | 9.95000 | -.01000 | -.01423 | -.29800 | -.28000 | .00900 | 16.71020 | .03034 | .01605 |
| .597 | -.500 | 9.91000 | 9.95000 | -.02000 | -.01570 | -.29600 | -.28400 | .00730 | 16.69510 | .03011 | .01600 |
| .597 | .000 | 9.92000 | 9.93000 | .00000 | -.01458 | -.29400 | -.28300 | .00830 | 16.71100 | .02996 | .01596 |
| .597 | .490 | 9.91000 | 9.95000 | -.02000 | -.01456 | -.29400 | -.28400 | .00940 | 16.70700 | .02988 | .01601 |
| .596 | 1.010 | 9.92000 | 9.95000 | -.01000 | -.01538 | -.29300 | -.28000 | .00930 | 16.70630 | .02981 | .01581 |
| .597 | 2.040 | 9.91000 | 9.93000 | -.01000 | -.01643 | -.29400 | -.28200 | .01410 | 16.69460 | .02987 | .01590 |
| .597 | 4.070 | 9.93000 | 9.95000 | -.01000 | -.01840 | -.29300 | -.28000 | .00730 | 16.71840 | .02986 | .01579 |
| .596 | 6.110 | 9.93000 | 9.94000 | .00000 | -.01750 | -.29200 | -.28200 | .01090 | 16.72030 | .03041 | .01646 |
| .596 | GRADIENT | .00278 | -.00278 | .00278 | -.00012 | .00092 | .00035 | .00055 | -.00154 | -.00009 | -.00002 |

REFERENCE DATA
 SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 AILRON = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|---------|--------|--------|---------|----------|---------|---------|
| .896 | -6.210 | 9.94000 | 10.05000 | -0.5000 | .02544 | -44400 | -43600 | .03070 | 16.37080 | .04521 | .02457 |
| .897 | -4.130 | 9.93000 | 10.05000 | -0.5000 | .03326 | -44000 | -42900 | .02490 | 16.63230 | .04479 | .02417 |
| .896 | -2.080 | 9.94000 | 10.04000 | -0.4000 | .03406 | -43400 | -42400 | .02040 | 16.55680 | .04414 | .02390 |
| .896 | -1.030 | 9.97000 | 10.05000 | -0.3000 | .03514 | -43400 | -42800 | .02130 | 16.58580 | .04416 | .02414 |
| .896 | -.510 | 9.96000 | 10.05000 | -0.4000 | .03539 | -43200 | -42700 | .01700 | 16.60660 | .04394 | .02407 |
| .897 | .000 | 9.95000 | 10.05000 | -0.4000 | .03610 | -43200 | -42800 | .01650 | 16.60860 | .04391 | .02411 |
| .897 | 1.040 | 9.94000 | 10.06000 | -0.5000 | .03423 | -43100 | -42800 | .02290 | 16.53850 | .04387 | .02412 |
| .896 | 2.080 | 9.96000 | 10.06000 | -0.5000 | .03470 | -42700 | -42400 | .02070 | 16.56120 | .04343 | .02389 |
| .895 | 4.140 | 9.94000 | 10.06000 | -0.5000 | .03383 | -42400 | -42000 | .02180 | 16.57020 | .04313 | .02369 |
| .896 | 6.220 | 9.92000 | 10.05000 | -0.6000 | .03256 | -42000 | -41300 | .01910 | 16.57490 | .04271 | .02330 |
| .896 | | 9.97000 | 10.04000 | -0.3000 | .02600 | -43300 | -42400 | .02590 | 16.41890 | .04400 | .02390 |
| | GRADIENT | -.00135 | .00125 | -.00171 | -.00010 | .00244 | .00172 | -.00041 | -.00592 | -.00025 | -.00009 |

RUN NO. 70/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|---------|----------|---------|--------|--------|--------|--------|----------|---------|---------|
| .946 | -6.170 | 9.94000 | 9.99000 | -0.2000 | .04480 | -46800 | -44200 | .01870 | 16.82690 | .04763 | .02490 |
| .947 | -4.090 | 9.97000 | 9.99000 | 0.0000 | .04695 | -47200 | -44800 | .01040 | 16.88860 | .04799 | .02524 |
| .947 | -2.050 | 9.93000 | 10.00000 | -0.3000 | .04769 | -46400 | -42000 | .01710 | 16.90080 | .04723 | .02366 |
| .947 | -1.020 | 9.93000 | 9.99000 | -0.3000 | .04820 | -46300 | -41000 | .01310 | 16.89620 | .04706 | .02311 |
| .947 | -.500 | 9.93000 | 10.03000 | -0.3000 | .04800 | -46400 | -41000 | .01670 | 16.88790 | .04716 | .02312 |
| .947 | .000 | 9.92000 | 9.94000 | -0.1000 | .04853 | -45900 | -40900 | .01350 | 16.90670 | .04671 | .02309 |
| .947 | .500 | 9.93000 | 9.96000 | -0.1000 | .04810 | -45900 | -41400 | .01500 | 16.88410 | .04665 | .02335 |
| .948 | 1.020 | 9.94000 | 10.01000 | -0.3000 | .04879 | -45700 | -41400 | .01620 | 16.90390 | .04643 | .02333 |
| .947 | 2.060 | 9.94000 | 9.98000 | -0.1000 | .04811 | -45400 | -41400 | .01730 | 16.87370 | .04614 | .02370 |
| .947 | 4.120 | 9.93000 | 10.00000 | -0.3000 | .04848 | -44500 | -42000 | .01160 | 16.87110 | .04533 | .02400 |
| .947 | 6.190 | 9.94000 | 10.01000 | -0.3000 | .04650 | -44800 | -42600 | .01400 | 16.84060 | .04557 | .02400 |
| | GRADIENT | -.00297 | .00002 | -.00161 | .00017 | .00304 | .00270 | .00017 | -.00273 | -.00031 | -.00015 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (SUK096) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RUN NO. 236/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000
 AILRON = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | BETA | ELVN-L | ELVN-R | AILRON | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|----------|---------|--------|---------|---------|---------|----------|--------|--------|
| 1.198 | -6.190 | 9.86000 | 9.87000 | .00000 | .08073 | -4.3500 | -4.2700 | .02120 | 17.16410 | .04429 | .02407 |
| 1.198 | -4.120 | 9.86000 | 9.93000 | -.03000 | .08172 | -4.3700 | -4.2600 | .02760 | 17.17020 | .04444 | .02404 |
| 1.199 | -2.070 | 9.86000 | 9.95000 | -.04000 | .08129 | -4.3200 | -4.1700 | .01940 | 17.16740 | .04396 | .02354 |
| 1.198 | -1.020 | 9.86000 | 9.96000 | -.05000 | .08150 | -4.3100 | -4.1300 | .01440 | 17.15870 | .04383 | .02330 |
| 1.198 | -.500 | 9.86000 | 9.97000 | -.05000 | .08190 | -4.3000 | -4.1200 | .01170 | 17.16530 | .04375 | .02324 |
| 1.198 | .000 | 9.86000 | 10.05000 | -.09000 | .08204 | -4.3000 | -4.1300 | .01490 | 17.16270 | .04375 | .02330 |
| 1.198 | .510 | 9.86000 | 9.97000 | -.05000 | .08201 | -4.3100 | -4.1500 | .01560 | 17.16430 | .04385 | .02341 |
| 1.198 | 1.030 | 9.86000 | 9.96000 | -.05000 | .08209 | -4.3100 | -4.1600 | .01100 | 17.15960 | .04387 | .02348 |
| 1.198 | 2.080 | 9.86000 | 10.07000 | -.10000 | .08250 | -4.3600 | -4.2200 | .01050 | 17.16260 | .04439 | .02379 |
| 1.198 | 4.130 | 9.86000 | 9.95000 | -.04000 | .08198 | -4.3900 | -4.3000 | .01100 | 17.15240 | .04469 | .02424 |
| 1.198 | 6.200 | 9.87000 | 9.87000 | .00000 | .08025 | -4.4000 | -4.2900 | .01590 | 17.14500 | .04478 | .02418 |
| | GRADIENT | .00000 | .00732 | -.00366 | .00009 | -.00038 | -.00070 | -.00195 | -.00193 | .00004 | .00004 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 BETA = .000 ALPHA = .000
 CRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 107/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|-----------|-----------|--------|---------|---------|---------|---------|----------|---------|---------|
| .597 | -4.940 | -14.91000 | -5.02000 | .00000 | .04548 | -.19100 | -.18300 | .00620 | 19.84860 | .01942 | .01033 |
| .597 | -3.990 | -14.23000 | -6.24000 | .00000 | .04600 | -.19000 | -.18200 | -.00750 | 19.80020 | .01936 | .01030 |
| .597 | -3.220 | -13.22000 | -6.78000 | .00000 | .04495 | -.18900 | -.18100 | .00990 | 19.85700 | .01920 | .01021 |
| .597 | -2.240 | -12.24000 | -7.75000 | .00000 | .04467 | -.18800 | -.18200 | .01030 | 19.75190 | .01922 | .01025 |
| .597 | -1.250 | -11.22000 | -8.72000 | .00000 | .04416 | -.18800 | -.18100 | .01030 | 19.83940 | .01912 | .01023 |
| .597 | -.130 | -10.07000 | -9.79000 | .00000 | .04368 | -.18700 | -.18000 | .01270 | 19.82540 | .01906 | .01018 |
| .597 | .790 | -9.04000 | -10.63000 | .00000 | .04347 | -.18700 | -.18100 | .01140 | 19.69860 | .01914 | .01021 |
| .597 | 1.470 | -8.57000 | -11.53000 | .00000 | .04361 | -.18700 | -.18100 | .01200 | 19.79510 | .01908 | .01023 |
| .597 | 2.290 | -7.58000 | -12.17000 | .00000 | .04361 | -.18800 | -.18000 | .01330 | 19.87140 | .01903 | .01019 |
| .596 | 3.090 | -6.66000 | -12.85000 | .00000 | .04411 | -.18800 | -.18100 | .01330 | 19.82380 | .01915 | .01025 |
| .597 | 4.040 | -5.58000 | -13.68000 | .00000 | .04454 | -.18800 | -.18200 | .01330 | 19.90630 | .01913 | .01025 |
| .597 | 4.770 | -4.95000 | -14.52000 | .00000 | .04482 | -.18900 | -.18300 | .01140 | 19.93950 | .01923 | .01032 |
| .597 | 5.560 | -3.98000 | -15.10000 | .00000 | .04531 | -.19000 | -.18400 | .01180 | 19.88800 | .01939 | .01041 |
| .597 | 6.490 | -3.12000 | -16.10000 | .00000 | .04578 | -.19100 | -.18500 | .01330 | 19.98940 | .01945 | .01042 |
| .596 | 7.240 | -2.23000 | -16.72000 | .00000 | .04663 | -.19400 | -.18700 | .01530 | 19.76940 | .01973 | .01057 |
| .597 | 7.750 | -1.70000 | -17.75000 | .00000 | .04808 | -.19400 | -.18700 | .01360 | 19.79790 | .01975 | .01054 |
| .597 | 9.220 | -.17000 | -18.62000 | .00000 | .04851 | -.19500 | -.18800 | .01270 | 19.86260 | .01985 | .01061 |
| .597 | 9.830 | .07000 | -19.59000 | .00000 | .05021 | -.19600 | -.18700 | .01100 | 19.80270 | .01992 | .01058 |
| | GRADIENT | 1.04103 | -.96230 | .00000 | -.00018 | .00024 | .00034 | .00059 | .00337 | -.00302 | -.00000 |

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK097) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 95/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|-----------|-----------|--------|---------|---------|---------|--------|----------|---------|---------|
| .896 | -5.020 | -15.01000 | -4.96000 | .00000 | .06414 | -.23400 | -.22600 | .00450 | 20.84520 | .02380 | .01277 |
| .896 | -4.080 | -14.28000 | -6.10000 | .00000 | .06372 | -.23100 | -.22400 | .00560 | 20.91150 | .02354 | .01266 |
| .896 | -3.280 | -13.51000 | -6.74000 | .00000 | .06352 | -.23000 | -.22400 | .01130 | 20.85120 | .02345 | .01263 |
| .896 | -2.540 | -12.64000 | -7.55000 | .00000 | .06349 | -.22800 | -.22200 | .01110 | 20.87850 | .02322 | .01255 |
| .896 | -1.870 | -11.89000 | -8.14000 | .00000 | .06310 | -.22600 | -.22000 | .01110 | 20.92890 | .02297 | .01239 |
| .896 | -.960 | -10.91000 | -8.97000 | .00000 | .06312 | -.22400 | -.21900 | .01280 | 20.85590 | .02284 | .01236 |
| .896 | -.200 | -10.07000 | -9.65000 | .00000 | .06292 | -.22300 | -.21800 | .01320 | 20.92850 | .02274 | .01229 |
| .895 | .840 | -9.02000 | -10.71000 | .00000 | .06295 | -.22300 | -.21900 | .01370 | 20.96870 | .02272 | .01233 |
| .896 | 1.630 | -8.37000 | -11.65000 | .00000 | .06311 | -.22300 | -.21800 | .01480 | 20.88560 | .02273 | .01233 |
| .896 | 2.540 | -7.28000 | -12.36000 | .00000 | .06307 | -.22400 | -.22000 | .01370 | 20.89960 | .02284 | .01241 |
| .896 | 3.370 | -6.33000 | -13.09000 | .00000 | .06361 | -.22500 | -.22100 | .01320 | 20.80670 | .02295 | .01249 |
| .896 | 4.390 | -5.36000 | -14.14000 | .00000 | .06359 | -.22800 | -.22300 | .01370 | 20.85740 | .02317 | .01257 |
| .896 | 5.010 | -4.71000 | -14.75000 | .00000 | .06370 | -.23000 | -.22400 | .01330 | 20.91020 | .02337 | .01266 |
| .896 | 5.910 | -3.80000 | -15.63000 | .01000 | .06447 | -.23200 | -.22600 | .01430 | 20.80540 | .02360 | .01273 |
| .895 | 6.870 | -2.69000 | -16.44000 | .01000 | .06480 | -.23400 | -.22700 | .01320 | 20.77220 | .02378 | .01279 |
| .896 | 7.480 | -2.24000 | -17.21000 | .01000 | .06538 | -.23600 | -.22900 | .01410 | 20.79440 | .02408 | .01293 |
| .896 | 8.070 | -1.97000 | -18.11000 | .01000 | .06627 | -.23800 | -.23100 | .01350 | 20.71250 | .02428 | .01301 |
| .896 | 9.470 | -.12000 | -19.08000 | .01000 | .06735 | -.24000 | -.23200 | .01400 | 20.66760 | .02439 | .01308 |
| .896 | 9.950 | .02000 | -19.88000 | .01000 | .06825 | -.24200 | -.23300 | .01200 | 20.72140 | .02464 | .01314 |
| | GRADIENT | 1.04834 | -.95510 | .00000 | -.00001 | .00055 | .00026 | .00068 | -.00406 | -.00006 | -.00002 |

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

(SUK098) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | ALLRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|--------|-----------|-----------|----------|---------|---------|---------|--------|----------|--------|--------|
| 1.198 | -5.000 | -15.03000 | -5.02000 | -0.01000 | .11317 | -34000 | -32600 | .01900 | 21.86710 | .03461 | .01841 |
| 1.198 | -4.080 | -14.31000 | -6.14000 | .00000 | .11268 | -34100 | -32700 | .02180 | 21.88720 | .03466 | .01845 |
| 1.198 | -3.080 | -13.04000 | -6.87000 | .00000 | .11208 | -34200 | -32600 | .02090 | 21.70770 | .03483 | .01838 |
| 1.199 | -2.380 | -12.44000 | -7.66000 | .00000 | .11219 | -34300 | -32300 | .01720 | 21.65850 | .03490 | .01823 |
| 1.198 | -1.470 | -11.48000 | -8.53000 | -0.01000 | .11188 | -34700 | -32200 | .01890 | 21.95730 | .03527 | .01813 |
| 1.198 | -.430 | -10.35000 | -9.49000 | .00000 | .11136 | -34800 | -32100 | .01610 | 21.82990 | .03544 | .01810 |
| 1.199 | .610 | -9.27000 | -10.49000 | .02000 | .11126 | -34900 | -32200 | .02180 | 21.79370 | .03549 | .01814 |
| 1.199 | 1.480 | -8.68000 | -11.64000 | .00000 | .11074 | -34900 | -32200 | .01750 | 21.99010 | .03544 | .01818 |
| 1.199 | 2.750 | -7.32000 | -12.53000 | -0.03000 | .11085 | -34600 | -32500 | .02640 | 21.81400 | .03519 | .01834 |
| 1.197 | 3.520 | -6.17000 | -13.21000 | .00000 | .11123 | -34600 | -32700 | .02030 | 21.82510 | .03521 | .01846 |
| 1.199 | 4.460 | -5.26000 | -14.19000 | .00000 | .11141 | -34500 | -32700 | .02340 | 21.92740 | .03507 | .01846 |
| 1.199 | 5.190 | -4.55000 | -14.95000 | -0.01000 | .11213 | -34300 | -32700 | .01940 | 21.69110 | .03490 | .01843 |
| 1.197 | 6.400 | -3.32000 | -16.14000 | -0.01000 | .11260 | -34400 | -32900 | .01800 | 21.80870 | .03502 | .01854 |
| 1.199 | 7.320 | -2.24000 | -16.90000 | .00000 | .11340 | -34300 | -32900 | .02340 | 21.79470 | .03489 | .01853 |
| 1.199 | 8.440 | -1.29000 | -18.19000 | .00000 | .11530 | -34300 | -33000 | .02490 | 21.57760 | .03492 | .01862 |
| 1.199 | 9.360 | -.28000 | -19.00000 | .00000 | .11575 | -34300 | -33000 | .02490 | 21.71270 | .03487 | .01862 |
| 1.198 | 9.910 | .00000 | -19.84000 | .02000 | .11711 | -34600 | -33300 | .02790 | 21.53780 | .03521 | .01881 |
| | | 1.04070 | -.96172 | -.00015 | -.00021 | -.00064 | -.00002 | .00037 | .00806 | .00006 | .00000 |

GRADIENT

(SUK099) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO RN/L = 4.500 ELEVON = -10.000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO BETA = .000 ALPHA = 5.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO GRIT = .000 SPDBRK = 25.000
 SCALE = .0150 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|--------|-----------|-----------|--------|--------|---------|---------|--------|-----------|---------|--------|
| .895 | -4.680 | -14.80000 | -5.43000 | .00000 | .03441 | -.19400 | -.18300 | .00650 | -24.17230 | .01974 | .01031 |
| .896 | -3.690 | -12.86000 | -6.46000 | .00000 | .03369 | -.19200 | -.18000 | .00710 | -30.51200 | .01952 | .01014 |
| .897 | -2.790 | -10.87000 | -7.28000 | .00000 | .03325 | -.19200 | -.17900 | .01060 | -43.14170 | .01955 | .01010 |
| .898 | -2.140 | -12.12000 | -7.83000 | .00000 | .03309 | -.19100 | -.17900 | .01100 | -98.25110 | .01948 | .01008 |
| .899 | -1.220 | -11.17000 | -8.72000 | .00000 | .03238 | -.19100 | -.17800 | .01100 | -66.58450 | .01940 | .01004 |
| .900 | -4.490 | -10.35000 | -9.36000 | .00000 | .03212 | -.19000 | -.17800 | .01140 | .00000 | .01939 | .01008 |
| .901 | .610 | -9.22000 | -10.45000 | .00000 | .03190 | -.18900 | -.17800 | .01050 | .00000 | .01925 | .01005 |
| .902 | 1.320 | -8.69000 | -11.35000 | .00000 | .03288 | -.19000 | -.17800 | .01090 | .00000 | .01935 | .01013 |
| .903 | 2.190 | -7.73000 | -12.13000 | .00000 | .03195 | -.18900 | -.17900 | .01140 | -42.75910 | .01923 | .01012 |
| .904 | 2.980 | -6.79000 | -12.76000 | .00000 | .03307 | -.19000 | -.18000 | .01140 | .00000 | .01932 | .01017 |
| .905 | 4.020 | -5.65000 | -13.71000 | .00000 | .03327 | -.19000 | -.18100 | .01250 | -43.32760 | .01931 | .01020 |
| .906 | 5.840 | -4.91000 | -14.61000 | .00000 | .03392 | -.19000 | -.18100 | .01360 | -28.99580 | .01931 | .01023 |
| .907 | 7.520 | -3.82000 | -15.47000 | .00000 | .03451 | -.19200 | -.18100 | .01430 | -18.71730 | .01939 | .01024 |
| .908 | 9.390 | -2.55000 | -16.45000 | .00000 | .03499 | -.19200 | -.18300 | .01250 | -11.41350 | .01955 | .01031 |
| .909 | 11.400 | -1.48000 | -17.13000 | .00000 | .03614 | -.19400 | -.18500 | .01280 | -9.66120 | .01974 | .01046 |
| .910 | 13.600 | -0.83000 | -17.95000 | .00000 | .03682 | -.19400 | -.18500 | .01210 | -4.03640 | .01978 | .01047 |
| .911 | 16.000 | -0.37000 | -18.86000 | .00000 | .03709 | -.19500 | -.18900 | .01470 | -1.71140 | .02015 | .01064 |
| .912 | 18.600 | 0.02000 | -19.62000 | .00000 | .03870 | -.19700 | -.18800 | .01210 | -1.37070 | .02007 | .01060 |
| .913 | 21.400 | 0.4439 | -19.6007 | .00000 | .00007 | .00037 | -.00000 | .00057 | 2.47175 | -.00004 | .00000 |

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|--------|-----------|-----------|--------|--------|---------|---------|--------|----------|---------|---------|
| .896 | -4.990 | -14.95000 | -4.97000 | .00000 | .05781 | -.23100 | -.21900 | .00670 | 8.89810 | .02352 | .01235 |
| .897 | -3.990 | -14.22000 | -6.24000 | .00000 | .05684 | -.23000 | -.21800 | .00930 | 9.16210 | .02343 | .01233 |
| .898 | -3.200 | -13.20000 | -6.78000 | .00000 | .05666 | -.22700 | -.21600 | .01260 | 8.88220 | .02319 | .01221 |
| .899 | -2.430 | -12.50000 | -7.62000 | .00000 | .05666 | -.22700 | -.21600 | .01290 | 9.19350 | .02311 | .01220 |
| .900 | -1.400 | -11.42000 | -8.61000 | .00000 | .05558 | -.22400 | -.21300 | .01770 | 8.94000 | .02279 | .01212 |
| .901 | 0.700 | -10.58000 | -9.18000 | .00000 | .05596 | -.22400 | -.21300 | .01340 | 8.99240 | .02278 | .01205 |
| .902 | 2.280 | -9.57000 | -10.15000 | .00000 | .05610 | -.22200 | -.21200 | .01150 | 9.05270 | .02258 | .01195 |
| .903 | 4.100 | -8.81000 | -10.99000 | .00000 | .05650 | -.22300 | -.21300 | .01360 | 8.90230 | .02262 | .01199 |
| .904 | 6.170 | -7.82000 | -12.18000 | .00000 | .05650 | -.22300 | -.21200 | .01310 | 9.10270 | .02275 | .01199 |
| .905 | 8.260 | -5.50000 | -14.02000 | .00000 | .05648 | -.22400 | -.21300 | .01370 | 9.18440 | .02282 | .01203 |
| .906 | 10.230 | -4.49000 | -14.96000 | .00000 | .05632 | -.22800 | -.21500 | .01190 | 9.35410 | .02311 | .01215 |
| .907 | 12.100 | -3.67000 | -16.04000 | .00000 | .05596 | -.22900 | -.21500 | .01440 | 9.86300 | .02335 | .01215 |
| .908 | 14.990 | -2.59000 | -16.58000 | .01000 | .05718 | -.23100 | -.21700 | .01370 | 10.00230 | .02349 | .01226 |
| .909 | 17.520 | -2.10000 | -17.26000 | .01000 | .05751 | -.23100 | -.21700 | .01560 | 9.98120 | .02348 | .01224 |
| .910 | 20.000 | -2.08000 | -18.12000 | .01000 | .05819 | -.23200 | -.21800 | .01500 | 10.21000 | .02352 | .01233 |
| .911 | 22.600 | 0.05000 | -19.96000 | .02000 | .06018 | -.23400 | -.21900 | .00840 | 10.05560 | .02379 | .01235 |
| .912 | 25.400 | 1.03228 | -19.97011 | .00000 | .00009 | .00058 | -.00059 | .00039 | .02589 | -.00007 | -.00003 |

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK100) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|--------|-----------|-----------|--------|---------|---------|---------|---------|----------|--------|--------|
| 1.199 | -4.960 | -15.01000 | -5.08000 | .00000 | .10601 | -34500 | -33400 | .02510 | 13.68680 | .03511 | .01882 |
| 1.198 | -4.350 | -14.64000 | -5.94000 | .00000 | .10586 | -34700 | -33500 | .02370 | 13.68630 | .03526 | .01892 |
| 1.199 | -3.770 | -13.92000 | -6.37000 | .00000 | .10506 | -34700 | -33500 | .01940 | 13.74700 | .03531 | .01886 |
| 1.199 | -2.720 | -12.89000 | -7.45000 | .00000 | .10482 | -35200 | -33400 | .02510 | 13.64830 | .03582 | .01882 |
| 1.198 | -2.130 | -12.24000 | -7.98000 | .00000 | .10497 | -35500 | -33400 | .02160 | 13.69750 | .03613 | .01881 |
| 1.199 | -1.150 | -11.23000 | -8.93000 | .00000 | .10460 | -35700 | -33300 | .01920 | 13.73740 | .03633 | .01877 |
| 1.199 | -.130 | -10.44000 | -10.18000 | .00000 | .10462 | -35900 | -33300 | .01980 | 13.68230 | .03649 | .01890 |
| 1.197 | 1.100 | -9.13000 | -11.35000 | .00000 | .10402 | -35900 | -33500 | .01980 | 13.67260 | .03650 | .01893 |
| 1.198 | 2.020 | -8.28000 | -12.33000 | .00000 | .10420 | -35500 | -33500 | .01690 | 13.68660 | .03608 | .01895 |
| 1.200 | 2.850 | -7.35000 | -13.06000 | .00000 | .10421 | -35300 | -33500 | .02150 | 13.64570 | .03595 | .01892 |
| 1.198 | 3.760 | -6.58000 | -14.12000 | .00000 | .10482 | -34800 | -33500 | .01930 | 13.54100 | .03544 | .01887 |
| 1.198 | 4.710 | -5.42000 | -14.84000 | .00000 | .10560 | -34500 | -33300 | .02010 | 13.55040 | .03508 | .01877 |
| 1.199 | 5.610 | -4.80000 | -16.03000 | .00000 | .10615 | -34500 | -33500 | .01620 | 13.58960 | .03512 | .01880 |
| 1.198 | 6.310 | -3.90000 | -16.53000 | .00000 | .10686 | -34700 | -33500 | .02130 | 13.64500 | .03531 | .01892 |
| 1.199 | 6.990 | -3.21000 | -17.21000 | .01000 | .10745 | -34700 | -33600 | .01930 | 13.69730 | .03535 | .01894 |
| 1.199 | 7.960 | -2.22000 | -18.16000 | .00000 | .10821 | -34600 | -33600 | .02130 | 13.65560 | .03523 | .01892 |
| 1.198 | 8.580 | -1.79000 | -18.97000 | .00000 | .10881 | -34700 | -33700 | .02380 | 13.79260 | .03527 | .01899 |
| 1.198 | 10.020 | -.14000 | -20.19000 | .00000 | .11067 | -34800 | -33800 | .02500 | 13.61830 | .03539 | .01904 |
| 1.198 | 98861 | -1.01349 | -1.01349 | .00006 | -.00009 | -.00025 | -.00003 | -.00046 | -.01369 | .00003 | .00000 |

GRADIENT

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 317

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK101) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00
 RN/L = 4.500 ELEVON = -10.000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 109/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|-----------|-----------|--------|---------|---------|---------|--------|----------|---------|--------|
| .597 | -4.710 | -14.82000 | -5.40000 | .00000 | .00505 | -.19800 | -.18400 | .00670 | 13.23150 | .02017 | .01039 |
| .596 | -3.740 | -13.93000 | -6.44000 | .00000 | .00401 | -.19700 | -.18300 | .01080 | 13.11160 | .02011 | .01035 |
| .597 | -2.640 | -12.76000 | -7.46000 | .00000 | .00258 | -.19600 | -.18400 | .01320 | 13.04750 | .02016 | .01041 |
| .597 | -1.970 | -11.99000 | -8.04000 | .00000 | .00279 | -.19600 | -.18300 | .01380 | 12.95450 | .01994 | .01032 |
| .597 | -1.060 | -10.98000 | -8.84000 | .00000 | .00210 | -.19400 | -.18200 | .01360 | 12.94010 | .01979 | .01030 |
| .597 | -.310 | -10.18000 | -9.56000 | .00000 | .00215 | -.19300 | -.18100 | .01300 | 12.92400 | .01963 | .01024 |
| .597 | .670 | -9.15000 | -10.49000 | .00000 | .00192 | -.19300 | -.18300 | .01170 | 12.90930 | .01964 | .01031 |
| .597 | 1.550 | -8.50000 | -11.62000 | .00000 | .00214 | -.19400 | -.18200 | .01400 | 12.89500 | .01972 | .01030 |
| .597 | 2.390 | -7.48000 | -12.26000 | .00000 | .00276 | -.19500 | -.18400 | .01430 | 12.91370 | .01989 | .01036 |
| .597 | 3.160 | -6.62000 | -12.95000 | .00000 | .00309 | -.19300 | -.18300 | .01450 | 12.97800 | .01965 | .01036 |
| .597 | 4.180 | -5.53000 | -13.89000 | .00000 | .00289 | -.19300 | -.18300 | .01430 | 13.10530 | .01970 | .01034 |
| .596 | 4.870 | -4.29000 | -14.65000 | .00000 | .00400 | -.19500 | -.18400 | .01410 | 13.19910 | .01983 | .01041 |
| .596 | 5.950 | -3.75000 | -15.56000 | .00000 | .00455 | -.19700 | -.18600 | .01360 | 13.33320 | .02006 | .01050 |
| .597 | 6.950 | -2.55000 | -16.45000 | .00000 | .00580 | -.19600 | -.18600 | .01510 | 13.41450 | .01999 | .01050 |
| .597 | 7.700 | -2.03000 | -17.43000 | .00000 | .00582 | -.20000 | -.18900 | .01280 | 13.60090 | .02038 | .01069 |
| .597 | 8.660 | -.91000 | -18.24000 | .00000 | .00624 | -.20100 | -.19100 | .01400 | 13.74940 | .02049 | .01076 |
| .597 | 9.570 | .01000 | -19.14000 | .00000 | .00804 | -.20300 | -.19200 | .01360 | 13.78770 | .02066 | .01082 |
| .596 | 9.990 | .05000 | -19.93000 | .00000 | .00795 | -.20300 | -.19300 | .01210 | 13.81200 | .02063 | .01090 |
| | GRADIENT | 1.04404 | -.95869 | .00000 | -.00008 | .00044 | -.00000 | .00051 | -.00545 | -.00005 | .00000 |

RUN NO. 97/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|-----------|-----------|--------|---------|---------|---------|--------|----------|---------|--------|
| .896 | -4.990 | -14.98000 | -5.00000 | .00000 | .05088 | -.23400 | -.21800 | .00710 | 14.66250 | .02384 | .01228 |
| .896 | -3.880 | -14.12000 | -6.36000 | .00000 | .05122 | -.23200 | -.21700 | .01040 | 14.64200 | .02365 | .01224 |
| .896 | -2.920 | -12.97000 | -7.12000 | .00000 | .05119 | -.23000 | -.21600 | .01150 | 14.60600 | .02340 | .01216 |
| .896 | -2.020 | -12.06000 | -8.01000 | .00000 | .05123 | -.22700 | -.21400 | .01070 | 14.56900 | .02309 | .01209 |
| .896 | -.920 | -10.82000 | -8.96000 | .00000 | .05164 | -.22500 | -.21300 | .00980 | 14.55110 | .02286 | .01202 |
| .896 | -.050 | -9.97000 | -9.86000 | .00000 | .05165 | -.22500 | -.21200 | .01300 | 14.56200 | .02286 | .01196 |
| .896 | .850 | -9.03000 | -10.73000 | .00000 | .05163 | -.22500 | -.21000 | .01130 | 14.55800 | .02290 | .01186 |
| .896 | 1.620 | -8.46000 | -11.70000 | .01000 | .05174 | -.22600 | -.21100 | .01130 | 14.56200 | .02303 | .01193 |
| .895 | 2.410 | -7.48000 | -12.31000 | .01000 | .05128 | -.22800 | -.21100 | .00980 | 14.58370 | .02319 | .01191 |
| .896 | 3.420 | -6.32000 | -13.17000 | .01000 | .05132 | -.23000 | -.21100 | .01190 | 14.61780 | .02341 | .01190 |
| .896 | 4.390 | -5.37000 | -14.16000 | .01000 | .05057 | -.23100 | -.21000 | .01410 | 14.64630 | .02347 | .01187 |
| .896 | 5.000 | -4.79000 | -14.79000 | .01000 | .05081 | -.23200 | -.21100 | .01360 | 14.67810 | .02354 | .01193 |
| .896 | 5.950 | -3.84000 | -15.74000 | .01000 | .05055 | -.23500 | -.21400 | .01270 | 14.72120 | .02391 | .01210 |
| .896 | 7.130 | -2.46000 | -16.73000 | .01000 | .05066 | -.23700 | -.21600 | .01330 | 14.82310 | .02413 | .01219 |
| .896 | 7.680 | -2.26000 | -17.53000 | .01000 | .05055 | -.23800 | -.21700 | .01380 | 14.83900 | .02423 | .01225 |
| .896 | 8.970 | -.63000 | -18.63000 | .01000 | .05112 | -.24000 | -.23000 | .01320 | 14.91350 | .02442 | .01243 |
| .897 | 9.920 | .06000 | -19.77000 | .01000 | .05205 | -.24200 | -.22100 | .01300 | 14.90530 | .02461 | .01248 |
| | GRADIENT | 1.03452 | -.96697 | .00133 | -.00002 | .00012 | -.00078 | .00042 | .00107 | -.00001 | .00000 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK102) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 202/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|-----------|-----------|---------|---------|---------|---------|--------|----------|--------|--------|
| 1.198 | -4.750 | -15.04000 | -5.53000 | .01000 | .09333 | -.36500 | -.35400 | .00810 | 15.97570 | .03716 | .01997 |
| 1.199 | -3.950 | -14.21000 | -6.30000 | .00000 | .09273 | -.36400 | -.35200 | .01850 | 15.94500 | .03705 | .01986 |
| 1.197 | -2.890 | -13.10000 | -7.32000 | -.01000 | .09239 | -.36400 | -.35200 | .01470 | 15.94510 | .03703 | .01984 |
| 1.197 | -1.900 | -12.13000 | -8.32000 | .00000 | .09264 | -.36500 | -.34800 | .01260 | 15.95820 | .03712 | .01965 |
| 1.198 | -.990 | -11.02000 | -9.03000 | .00000 | .09274 | -.36600 | -.34800 | .01630 | 15.93750 | .03721 | .01962 |
| 1.199 | .070 | -10.08000 | -10.23000 | .00000 | .09149 | -.36600 | -.34600 | .01260 | 15.92640 | .03727 | .01950 |
| 1.197 | 1.280 | -8.95000 | -11.52000 | -.01000 | .09136 | -.36900 | -.34800 | .01320 | 15.93240 | .03756 | .01963 |
| 1.199 | 1.960 | -8.17000 | -12.09000 | .01000 | .09146 | -.36900 | -.34800 | .01820 | 15.91330 | .03754 | .01964 |
| 1.196 | 2.780 | -7.30000 | -12.86000 | .00000 | .09148 | -.37200 | -.35300 | .01630 | 15.90940 | .03782 | .01988 |
| 1.199 | 3.620 | -6.53000 | -13.77000 | -.01000 | .09170 | -.37100 | -.35300 | .01670 | 15.93510 | .03771 | .01992 |
| 1.197 | 4.480 | -5.56000 | -14.53000 | .00000 | .09212 | -.37200 | -.35600 | .01820 | 15.92550 | .03788 | .02007 |
| 1.197 | 5.340 | -4.75000 | -15.46000 | .02000 | .09198 | -.37200 | -.35700 | .01820 | 15.93740 | .03785 | .02015 |
| 1.199 | 6.180 | -3.90000 | -16.28000 | .00000 | .09278 | -.37000 | -.35700 | .02360 | 15.94710 | .03765 | .02014 |
| 1.197 | 6.880 | -3.17000 | -16.95000 | .00000 | .09339 | -.37100 | -.36000 | .02380 | 15.95270 | .03774 | .02029 |
| 1.198 | 7.910 | -2.20000 | -18.03000 | -.01000 | .09525 | -.37000 | -.35900 | .01990 | 15.95130 | .03763 | .02026 |
| 1.198 | 8.650 | -1.69000 | -19.00000 | .00000 | .09601 | -.37100 | -.36100 | .02370 | 15.94560 | .03772 | .02034 |
| 1.197 | 9.680 | -.61000 | -19.97000 | .00000 | .09730 | -.37200 | -.36200 | .01610 | 15.95320 | .03783 | .02044 |
| 1.198 | 10.050 | .30000 | -20.12000 | .00000 | .09774 | -.37300 | -.36300 | .01770 | 15.98400 | .03790 | .02044 |
| | GRADIENT | 1.01976 | -.98202 | -.00050 | -.00017 | -.00095 | -.00013 | .00052 | -.00480 | .00039 | .00001 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK103) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 110/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|---------|-----------|-----------|--------|---------|---------|---------|--------|----------|---------|--------|
| .597 | -4.710 | -14.80000 | -5.38000 | .00000 | -.01854 | -.21400 | -.20200 | .00430 | 14.60010 | .02177 | .01138 |
| .596 | -3.720 | -13.87000 | -6.41000 | .00000 | -.01921 | -.21200 | -.20100 | .00780 | 14.58290 | .02158 | .01134 |
| .596 | -2.440 | -12.48000 | -7.58000 | .00000 | -.02034 | -.21100 | -.20000 | .01040 | 14.53830 | .02148 | .01129 |
| .597 | -1.650 | -11.64000 | -8.32000 | .00000 | -.02039 | -.21000 | -.19900 | .01160 | 14.51130 | .02143 | .01124 |
| .597 | -.870 | -10.70000 | -8.96000 | .00000 | -.02054 | -.21000 | -.20000 | .01250 | 14.52960 | .02142 | .01126 |
| .596 | -.020 | -9.86000 | -9.82000 | .00000 | -.02049 | -.20900 | -.19900 | .01360 | 14.49020 | .02126 | .01124 |
| .597 | .860 | -8.95000 | -10.69000 | .00000 | -.02088 | -.21100 | -.20100 | .01380 | 14.56150 | .02147 | .01135 |
| .597 | 1.790 | -8.16000 | -11.76000 | .00000 | -.02031 | -.20900 | -.20000 | .01390 | 14.52630 | .02133 | .01127 |
| .596 | 2.810 | -6.30000 | -12.53000 | .00000 | -.02061 | -.21000 | -.20100 | .01410 | 14.55230 | .02140 | .01134 |
| .597 | 3.840 | -5.79000 | -13.48000 | .00000 | -.02027 | -.21100 | -.20200 | .01490 | 14.60260 | .02147 | .01140 |
| .597 | 4.700 | -5.04000 | -14.45000 | .00000 | -.01979 | -.21100 | -.20200 | .01450 | 14.64630 | .02147 | .01140 |
| .597 | 5.610 | -4.02000 | -15.25000 | .00000 | -.01929 | -.21100 | -.20200 | .01510 | 14.68440 | .02146 | .01143 |
| .597 | 7.000 | -2.47000 | -16.48000 | .00000 | -.01821 | -.21300 | -.20500 | .01450 | 14.74880 | .02173 | .01158 |
| .597 | 7.640 | -2.06000 | -17.35000 | .00000 | -.01717 | -.21400 | -.20600 | .01340 | 14.79540 | .02181 | .01161 |
| .596 | 8.470 | -1.55000 | -18.50000 | .01000 | -.01588 | -.21600 | -.20700 | .01210 | 14.80700 | .02195 | .01170 |
| .597 | 9.940 | -.04000 | -19.83000 | .00000 | -.01389 | -.21600 | -.20700 | .01360 | 14.84240 | .02198 | .01170 |
| GRADIENT | 1.049+3 | -.95500 | -.95500 | .00000 | -.00011 | .00023 | -.00039 | .00095 | .00404 | -.00002 | .00001 |

RUN NO. 98/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|---------|-----------|-----------|--------|---------|---------|---------|--------|----------|---------|---------|
| .895 | -4.930 | -14.97000 | -5.11000 | .00000 | .05061 | -.24800 | -.23800 | .01050 | 15.35030 | .02526 | .01342 |
| .897 | -3.940 | -14.18000 | -6.28000 | .00000 | .05104 | -.24700 | -.23700 | .00970 | 15.35690 | .02518 | .01335 |
| .895 | -3.170 | -13.14000 | -6.79000 | .00000 | .05068 | -.24700 | -.23400 | .00830 | 15.32420 | .02510 | .01322 |
| .896 | -2.390 | -12.40000 | -7.60000 | .00000 | .05079 | -.24600 | -.23300 | .00770 | 15.30930 | .02504 | .01313 |
| .895 | -1.560 | -11.55000 | -8.41000 | .00000 | .05049 | -.24700 | -.23200 | .02050 | 15.30290 | .02515 | .01310 |
| .897 | -.700 | -10.54000 | -9.14000 | .00000 | .05034 | -.24600 | -.23200 | .01480 | 15.30020 | .02506 | .01311 |
| .896 | .370 | -9.43000 | -10.18000 | .00000 | .05030 | -.24500 | -.23200 | .01450 | 15.29670 | .02504 | .01308 |
| .895 | 1.040 | -8.82000 | -10.92000 | .00000 | .05003 | -.24500 | -.23100 | .01210 | 15.29240 | .02498 | .01304 |
| .896 | 1.890 | -8.06000 | -11.88000 | .00000 | .05028 | -.24600 | -.23300 | .01080 | 15.30380 | .02507 | .01312 |
| .895 | 2.840 | -6.93000 | -12.61000 | .00000 | .04984 | -.24600 | -.23300 | .00880 | 15.35550 | .02501 | .01327 |
| .897 | 4.020 | -5.67000 | -13.72000 | .00000 | .05035 | -.24600 | -.23500 | .00880 | 15.35550 | .02501 | .01327 |
| .895 | 5.810 | -5.05000 | -14.60000 | .00000 | .05020 | -.24700 | -.23700 | .01560 | 15.37710 | .02502 | .01335 |
| .896 | 7.020 | -2.58000 | -16.64000 | .00000 | .04969 | -.24600 | -.23700 | .01310 | 15.42520 | .02514 | .01342 |
| .896 | 7.570 | -2.16000 | -17.32000 | .00000 | .04951 | -.24800 | -.24000 | .01470 | 15.46930 | .02528 | .01356 |
| .896 | 8.050 | -2.06000 | -18.18000 | .00000 | .04929 | -.24900 | -.24200 | .01390 | 15.50210 | .02534 | .01364 |
| .896 | 9.310 | -.45000 | -19.09000 | .00000 | .04886 | -.25100 | -.24400 | .01240 | 15.55980 | .02541 | .01373 |
| .896 | 9.960 | .02000 | -19.83000 | .00000 | .04881 | -.25300 | -.24500 | .01420 | 15.60020 | .02558 | .01378 |
| GRADIENT | 1.037+2 | -.96602 | -.96602 | .00000 | -.00010 | .00017 | -.00014 | .00006 | .00071 | -.00002 | -.00001 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK104) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 203/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|--------|-----------|-----------|--------|--------|---------|---------|---------|----------|--------|---------|
| 1.198 | -4.960 | -15.00000 | -5.07000 | .01000 | .08093 | -.39800 | -.38800 | .01240 | 16.29000 | .04046 | .02186 |
| 1.197 | -4.240 | -14.61000 | -6.13000 | .01000 | .08017 | -.40000 | -.39000 | .01400 | 16.29600 | .04072 | .02200 |
| 1.198 | -3.630 | -13.90000 | -6.63000 | .00000 | .08054 | -.40000 | -.39100 | .01090 | 16.28740 | .04071 | .02204 |
| 1.197 | -2.750 | -12.89000 | -7.39000 | .00000 | .07995 | -.40200 | -.39300 | .01620 | 16.27860 | .04093 | .02214 |
| 1.197 | -2.100 | -12.14000 | -7.93000 | .00000 | .07978 | -.40200 | -.39300 | .01850 | 16.29480 | .04054 | .02215 |
| 1.199 | -1.250 | -11.26000 | -8.75000 | .00000 | .07926 | -.40200 | -.39300 | .01530 | 16.29100 | .04094 | .02216 |
| 1.198 | -.480 | -10.55000 | -9.58000 | .01000 | .07944 | -.40300 | -.39300 | .02480 | 15.26950 | .04096 | .02218 |
| 1.198 | .440 | -9.59000 | -10.48000 | .00000 | .07945 | -.40300 | -.39300 | .01470 | 16.28330 | .04100 | .02214 |
| 1.198 | 1.260 | -8.97000 | -11.43000 | .01000 | .07945 | -.40300 | -.39300 | .01180 | 16.28350 | .04103 | .02218 |
| 1.197 | 1.810 | -8.47000 | -12.09000 | .00000 | .07975 | -.40400 | -.39400 | .01610 | 16.27320 | .04108 | .02220 |
| 1.198 | 2.900 | -7.27000 | -13.08000 | .00000 | .08049 | -.40100 | -.39000 | .01170 | 16.28770 | .04081 | .02200 |
| 1.198 | 3.880 | -6.46000 | -14.17000 | .02000 | .08096 | -.40000 | -.38900 | .01180 | 16.28450 | .04065 | .02196 |
| 1.197 | 4.840 | -5.28000 | -14.97000 | .00000 | .08125 | -.39900 | -.38600 | .01240 | 16.27530 | .04056 | .02190 |
| 1.198 | 5.720 | -4.61000 | -16.05000 | .02000 | .08198 | -.39600 | -.38600 | .02060 | 16.29930 | .04031 | .02175 |
| 1.198 | 6.160 | -4.37000 | -16.70000 | .01000 | .08251 | -.39600 | -.38500 | .01680 | 16.28720 | .04026 | .02171 |
| 1.198 | 7.010 | -3.56000 | -17.59000 | .00000 | .08302 | -.39400 | -.38400 | .02420 | 16.29800 | .04010 | .02163 |
| 1.199 | 8.050 | -2.41000 | -18.51000 | .01000 | .08450 | -.39100 | -.38000 | .01680 | 16.29920 | .03981 | .02143 |
| 1.197 | 8.670 | -1.95000 | -19.30000 | .00000 | .08450 | -.39200 | -.38100 | .01910 | 16.29760 | .03987 | .02146 |
| 1.197 | 9.640 | -.88000 | -20.16000 | .00000 | .08592 | -.39000 | -.37900 | .02210 | 16.32260 | .03970 | .02137 |
| 1.198 | | .99681 | -1.00520 | .00011 | .00004 | -.00010 | .00007 | -.00018 | -.00126 | .00001 | -.00000 |

GRADIENT

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO BETA = 1076.7000 IN. XO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO GRIT = 1.000 SPDBRK = 25.000
 SCALE = .0150 RUDDER = .000 BOFLAP = .000 ALPHA = -10.000

RUN NO. 111/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|-----------|-----------|--------|---------|---------|---------|--------|----------|---------|--------|
| .597 | -4.750 | -14.65000 | -5.15000 | .00000 | -.01827 | -.24200 | -.22600 | .00910 | 15.34260 | .02464 | .01275 |
| .597 | -3.750 | -13.72000 | -6.22000 | .00000 | -.01893 | -.24100 | -.22500 | .00990 | 15.34550 | .02457 | .01268 |
| .597 | -2.870 | -12.67000 | -6.92000 | .00000 | -.02026 | -.24000 | -.22400 | .01360 | 15.34170 | .02445 | .01266 |
| .597 | -1.950 | -11.68000 | -7.76000 | .00000 | -.02026 | -.24100 | -.22600 | .01230 | 15.34870 | .02452 | .01273 |
| .597 | -.880 | -10.51000 | -8.75000 | .00000 | -.02072 | -.24200 | -.22600 | .01530 | 15.34580 | .02465 | .01275 |
| .597 | .420 | -9.11000 | -9.96000 | .00000 | -.02146 | -.24100 | -.22500 | .01580 | 15.34800 | .02456 | .01270 |
| .597 | 1.270 | -8.39000 | -10.95000 | .00000 | -.02128 | -.23900 | -.22500 | .01490 | 15.33530 | .02437 | .01272 |
| .597 | 2.560 | -6.95000 | -12.09000 | .00000 | -.02076 | -.23700 | -.22500 | .01680 | 15.33380 | .02417 | .01267 |
| .597 | 3.740 | -5.70000 | -13.19000 | .00000 | -.02073 | -.23700 | -.22500 | .01710 | 15.33980 | .02415 | .01272 |
| .597 | 4.450 | -5.22000 | -14.13000 | .00000 | -.01928 | -.23600 | -.22600 | .02050 | 15.35140 | .02407 | .01275 |
| .597 | 5.060 | -4.66000 | -14.79000 | .00000 | -.01800 | -.23600 | -.22600 | .01640 | 15.35220 | .02407 | .01275 |
| .596 | 5.930 | -3.83000 | -15.71000 | .00000 | -.01845 | -.23500 | -.22500 | .01530 | 15.37300 | .02394 | .01267 |
| .597 | 6.660 | -3.06000 | -16.38000 | .00000 | -.01681 | -.23400 | -.22300 | .01660 | 15.36420 | .02381 | .01261 |
| .597 | 7.450 | -2.23000 | -17.14000 | .00000 | -.01617 | -.23300 | -.22300 | .01490 | 15.36830 | .02371 | .01260 |
| .596 | 8.010 | -1.97000 | -18.01000 | .00000 | -.01424 | -.23200 | -.22100 | .01530 | 15.39340 | .02361 | .01249 |
| .597 | 9.140 | -1.62000 | -18.91000 | .00000 | -.01270 | -.23200 | -.22100 | .01900 | 15.39450 | .02362 | .01248 |
| .597 | 9.840 | -.02000 | -19.60000 | .00000 | -.01315 | -.23300 | -.22300 | .01640 | 15.41910 | .02376 | .01255 |
| | GRADIENT | 1.04371 | -.95889 | .00000 | -.00016 | .00061 | -.00000 | .00104 | -.00025 | -.00006 | .00000 |

RUN NO. 99/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|-----------|-----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .896 | -4.980 | -15.00000 | -5.02000 | .01000 | .04333 | -.30200 | -.29900 | .01170 | 15.56680 | .03075 | .01684 |
| .896 | -3.270 | -13.04000 | -6.50000 | .01000 | .04233 | -.30300 | -.29900 | .01700 | 15.53810 | .03086 | .01687 |
| .896 | -2.480 | -12.31000 | -7.34000 | .00000 | .04270 | -.30100 | -.29700 | .01510 | 15.52870 | .03067 | .01677 |
| .896 | -1.740 | -11.39000 | -7.89000 | .00000 | .04256 | -.30000 | -.29700 | .01330 | 15.50950 | .03056 | .01675 |
| .895 | -.880 | -10.51000 | -8.75000 | .00000 | .04245 | -.29900 | -.29600 | .01790 | 15.50290 | .03044 | .01671 |
| .896 | .220 | -9.32000 | -9.77000 | .00000 | .04227 | -.29900 | -.29600 | .01870 | 15.50950 | .03044 | .01670 |
| .895 | .910 | -8.74000 | -10.58000 | .00000 | .04229 | -.29900 | -.29500 | .01870 | 15.51100 | .03035 | .01666 |
| .896 | 1.780 | -7.95000 | -11.53000 | .00000 | .04243 | -.29900 | -.29600 | .02540 | 15.52040 | .03040 | .01671 |
| .895 | 2.650 | -6.87000 | -12.19000 | .00000 | .04244 | -.29800 | -.29600 | .01840 | 15.53180 | .03034 | .01665 |
| .897 | 3.740 | -5.65000 | -13.14000 | .00000 | .04224 | -.29800 | -.29600 | .01820 | 15.54330 | .03030 | .01667 |
| .896 | 4.660 | -4.93000 | -14.25000 | .00000 | .04247 | -.29800 | -.29700 | .02090 | 15.57990 | .03036 | .01675 |
| .896 | 5.950 | -3.87000 | -14.99000 | .00000 | .04250 | -.30000 | -.29800 | .01870 | 15.60680 | .03052 | .01684 |
| .896 | 6.790 | -2.66000 | -16.26000 | .00000 | .04273 | -.30200 | -.29800 | .01450 | 15.63740 | .03087 | .01702 |
| .896 | 7.320 | -2.34000 | -16.99000 | .00000 | .04302 | -.30400 | -.30200 | .01350 | 15.66510 | .03111 | .01705 |
| .896 | 7.870 | -2.12000 | -17.89000 | .00000 | .04398 | -.30600 | -.30400 | .01200 | 15.69360 | .03114 | .01715 |
| .896 | 8.360 | -1.97000 | -18.71000 | .00000 | .04398 | -.30800 | -.30600 | .01590 | 15.69360 | .03145 | .01728 |
| .895 | 9.480 | -1.49000 | -19.47000 | .00000 | .04397 | -.30900 | -.30800 | .02370 | 15.71740 | .03145 | .01734 |
| .895 | 9.990 | -.00000 | -19.99000 | .00000 | .04410 | -.31000 | -.30900 | .02300 | 15.73990 | .03159 | .01739 |
| .896 | GRADIENT | 1.04504 | -.95826 | -.00091 | -.00006 | .00051 | .00031 | .00086 | -.00103 | -.00005 | -.00002 |

REFERENCE DATA
 SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA
 RN/L = 4.000 ELEVON = -10.000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|-----------|-----------|---------|--------|---------|---------|--------|----------|--------|--------|
| 1.199 | -4.630 | -15.14000 | -5.86000 | .01000 | .07040 | -4.2500 | -4.1500 | .01520 | 16.38940 | .04325 | .02338 |
| 1.198 | -3.830 | -14.24000 | -6.57000 | .00000 | .06977 | -4.2700 | -4.1600 | .01170 | 16.38510 | .04348 | .02343 |
| 1.198 | -2.760 | -13.14000 | -7.61000 | .00000 | .06907 | -4.2800 | -4.1500 | .01180 | 16.38420 | .04350 | .02338 |
| 1.198 | -1.970 | -12.56000 | -8.62000 | .01000 | .06877 | -4.2700 | -4.1400 | .01330 | 16.37540 | .04343 | .02334 |
| 1.198 | -1.200 | -11.74000 | -9.32000 | .00000 | .06845 | -4.2700 | -4.1300 | .00860 | 16.38040 | .04342 | .02329 |
| 1.198 | -.360 | -10.78000 | -10.05000 | -.01000 | .06809 | -4.2700 | -4.1300 | .01090 | 16.37310 | .04344 | .02329 |
| 1.198 | .330 | -10.25000 | -10.93000 | .00000 | .06843 | -4.2700 | -4.1300 | .01220 | 16.37800 | .04347 | .02328 |
| 1.198 | 1.260 | -9.31000 | -11.84000 | .00000 | .06865 | -4.2800 | -4.1400 | .01530 | 16.37760 | .04351 | .02334 |
| 1.198 | 1.870 | -8.31000 | -12.57000 | .00000 | .06934 | -4.2900 | -4.1700 | .01310 | 16.38610 | .04363 | .02353 |
| 1.198 | 2.710 | -7.89000 | -13.31000 | .01000 | .06957 | -4.3000 | -4.1900 | .01820 | 16.36570 | .04375 | .02361 |
| 1.198 | 3.600 | -7.13000 | -14.33000 | .00000 | .06986 | -4.3000 | -4.2000 | .02370 | 16.36500 | .04372 | .02366 |
| 1.197 | 4.400 | -6.20000 | -15.00000 | .00000 | .07036 | -4.3000 | -4.1900 | .01440 | 16.36650 | .04373 | .02364 |
| 1.198 | 5.280 | -5.33000 | -15.89000 | .00000 | .07118 | -4.2900 | -4.1900 | .01310 | 16.38010 | .04361 | .02360 |
| 1.198 | 6.290 | -4.41000 | -16.93000 | .00000 | .07158 | -4.2900 | -4.1900 | .01390 | 16.37490 | .04362 | .02364 |
| 1.197 | 7.310 | -3.54000 | -18.18000 | .00000 | .07309 | -4.2800 | -4.1800 | .01240 | 16.38490 | .04349 | .02358 |
| 1.198 | 8.310 | -2.34000 | -18.97000 | .01000 | .07385 | -4.2800 | -4.1900 | .01910 | 16.39710 | .04354 | .02363 |
| 1.199 | 9.050 | -1.82000 | -19.93000 | .00000 | .07497 | -4.2900 | -4.2000 | .01900 | 16.40000 | .04362 | .02369 |
| 1.198 | 9.600 | -.94000 | -20.14000 | .00000 | .07525 | -4.3000 | -4.2100 | .02060 | 16.42450 | .04374 | .02374 |
| 1.198 | 10.060 | .00000 | -20.14000 | .00000 | .07548 | -4.3000 | -4.2100 | .01440 | 16.42640 | .04369 | .02373 |
| 1.198 | GRADIENT | .97468 | -1.02866 | -.00037 | .00003 | -.00047 | -.00053 | .00070 | -.00223 | .00305 | .00003 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK107) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 112/ 0 RN/L = 4.44 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|--------|----------|---------|--------|
| .597 | -4.840 | -4.68000 | 4.99000 | -.01000 | .03281 | -.21400 | -.19900 | .00900 | 20.64520 | .02177 | .01122 |
| .596 | -3.950 | -3.74000 | 4.16000 | .00000 | .03271 | -.21200 | -.19900 | .01270 | 20.16050 | .02159 | .01124 |
| .597 | -3.020 | -2.54000 | 3.49000 | .00000 | .03210 | -.21100 | -.19900 | .01380 | 20.74600 | .02148 | .01122 |
| .597 | -2.300 | -2.08000 | 2.52000 | .00000 | .03212 | -.20900 | -.19800 | .01530 | 20.12750 | .02129 | .01120 |
| .597 | -1.150 | -.72000 | 1.57000 | .00000 | .03216 | -.20700 | -.19800 | .01530 | 20.05250 | .02108 | .01120 |
| .597 | .060 | .62000 | .50000 | .00000 | .03134 | -.20700 | -.20000 | .01540 | 20.78900 | .02109 | .01130 |
| .597 | 1.080 | 1.82000 | -.34000 | .00000 | .03159 | -.20800 | -.20200 | .01510 | 20.74750 | .02116 | .01141 |
| .597 | 2.280 | 2.90000 | -1.66000 | .00000 | .03173 | -.20900 | -.20200 | .01450 | 20.56230 | .02117 | .01142 |
| .597 | 3.190 | 3.30000 | -2.57000 | .00000 | .03208 | -.20900 | -.20300 | .01730 | 21.00110 | .02124 | .01147 |
| .596 | 4.010 | 4.50000 | -3.51000 | .00000 | .03212 | -.21000 | -.20400 | .01650 | 20.46550 | .02142 | .01149 |
| .596 | 4.980 | 5.61000 | -4.35000 | .00000 | .03296 | -.20900 | -.20300 | .01520 | 19.99160 | .02132 | .01147 |
| .596 | 5.390 | 6.11000 | -4.67000 | .00000 | .03332 | -.20900 | -.20200 | .01340 | 20.98270 | .02131 | .01138 |
| .597 | 6.180 | 6.51000 | -5.85000 | .00000 | .03423 | -.21000 | -.20300 | .01470 | 20.43750 | .02140 | .01148 |
| .597 | 6.950 | 7.33000 | -6.57000 | .00000 | .03505 | -.21200 | -.20600 | .01470 | 20.16890 | .02158 | .01161 |
| .597 | 7.910 | 8.25000 | -7.58000 | .01000 | .03620 | -.21200 | -.20300 | .01470 | 21.21080 | .02160 | .01148 |
| .597 | 8.670 | 8.87000 | -8.48000 | .01000 | .03702 | -.21500 | -.20500 | .01450 | 20.69320 | .02186 | .01156 |
| .597 | 9.660 | 10.07000 | -9.25000 | .00000 | .03846 | -.21500 | -.20600 | .01540 | 21.36400 | .02193 | .01161 |
| .597 | 10.000 | 10.08000 | -9.91000 | .01000 | .03905 | -.21800 | -.20600 | .01060 | 20.34340 | .02221 | .01161 |
| | GRADIENT | 1.04530 | -.95325 | .00043 | -.00003 | .00035 | -.00059 | .00048 | .00564 | -.00003 | .00003 |

TABLULATED SOURCE DATA, CALSPAN T18-103 (LA70)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 25.000
 GRIT = 1.000 SPOBRK = .000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|---------|----------|-----------|--------|---------|---------|---------|--------|----------|---------|---------|
| .896 | -5.050 | -5.03000 | 5.03000 | .00000 | .04828 | -.22900 | -.22200 | .00420 | 22.42920 | .02331 | .01251 |
| .896 | -4.300 | -4.15000 | 4.16000 | .00000 | .04783 | -.23000 | -.22300 | .00890 | 21.26770 | .02338 | .01256 |
| .897 | -3.670 | -3.36000 | 3.98000 | .00000 | .04696 | -.23000 | -.22200 | .01550 | 21.33690 | .02337 | .01250 |
| .896 | -2.780 | -2.39000 | 3.17000 | .00000 | .04625 | -.22800 | -.22100 | .01240 | 21.68620 | .02326 | .01246 |
| .896 | -1.960 | -2.02000 | 1.90000 | .01000 | .04576 | -.22900 | -.22000 | .01320 | 21.40530 | .02331 | .01239 |
| .896 | -1.090 | -.95000 | 1.24000 | .00000 | .04499 | -.22900 | -.22100 | .01340 | 21.87940 | .02332 | .01245 |
| .897 | -.180 | .18000 | .55000 | .00000 | .04494 | -.22900 | -.22000 | .01460 | 22.16280 | .02334 | .01239 |
| .896 | .490 | .84000 | -1.3000 | .00000 | .04438 | -.22800 | -.22000 | .01490 | 21.42980 | .02325 | .01240 |
| .897 | 1.560 | 1.31000 | -1.22000 | .00000 | .04451 | -.22900 | -.21900 | .01490 | 22.80840 | .02326 | .01237 |
| .897 | 2.500 | 3.13000 | -1.86000 | .00000 | .04516 | -.23000 | -.22100 | .01370 | 22.23290 | .02342 | .01247 |
| .896 | 3.620 | 4.14000 | -3.11000 | .00000 | .04622 | -.22900 | -.22100 | .01270 | 21.89570 | .02330 | .01248 |
| .895 | 4.590 | 5.00000 | -4.19000 | .01000 | .04676 | -.22900 | -.22200 | .01230 | 21.70470 | .02331 | .01254 |
| .897 | 5.230 | 5.88000 | -4.58000 | .02000 | .04829 | -.22700 | -.22300 | .01170 | 21.89490 | .02311 | .01256 |
| .896 | 5.900 | 6.33000 | -5.47000 | .01000 | .04939 | -.22800 | -.22400 | .01230 | 21.18560 | .02323 | .01262 |
| .897 | 6.840 | 7.35000 | -6.33000 | .00000 | .05035 | -.22800 | -.22500 | .01320 | 21.75310 | .02321 | .01269 |
| .896 | 7.560 | 8.20000 | -6.92000 | .01000 | .05182 | -.22700 | -.22400 | .01260 | 21.15680 | .02311 | .01264 |
| .897 | 8.070 | 8.32000 | -7.83000 | .01000 | .05367 | -.22600 | -.22600 | .01410 | 21.36660 | .02305 | .01273 |
| .896 | 9.140 | 9.58000 | -8.70000 | .01000 | .05499 | -.22600 | -.22600 | .01270 | 21.28310 | .02302 | .01275 |
| .897 | 9.730 | 10.05000 | -9.42000 | .02000 | .05700 | -.22600 | -.22600 | .01200 | 21.39980 | .02300 | .01273 |
| .896 | 10.010 | 9.99000 | -10.04000 | .02000 | .05690 | -.22600 | -.22500 | .01110 | 21.26590 | .02298 | .01270 |
| GRADIENT | 1.03972 | | -.96166 | .00075 | -.00013 | .00003 | .00011 | .00012 | .08335 | -.00000 | -.00000 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 325

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK107) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 BETA =
 GRIT =
 RUDDER =

ELEVON =
 ALPHA =
 SPOBRK =
 BDFLAP =

RUN NO. 175/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | ALLRON | ELV-N-L | ELV-N-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|---------|----------|-----------|---------|---------|---------|---------|--------|----------|--------|--------|
| .947 | -5.100 | -5.01000 | 5.18000 | -0.1000 | .06547 | -.27800 | -.24700 | .00560 | 22.60740 | .02834 | .01395 |
| .947 | -4.310 | -4.08000 | 4.54000 | .00000 | .06457 | -.27600 | -.24900 | .00630 | 23.64580 | .02813 | .01403 |
| .946 | -3.430 | -2.99000 | 3.87000 | .00000 | .06270 | -.27800 | -.25000 | .01180 | 23.43220 | .02834 | .01411 |
| .949 | -2.600 | -2.22000 | 2.99000 | .00000 | .06211 | -.27900 | -.25100 | .01540 | 23.91660 | .02840 | .01418 |
| .948 | -1.840 | -1.75000 | 1.92000 | .00000 | .06200 | -.27500 | -.25100 | .01420 | 23.01960 | .02797 | .01416 |
| .947 | -.740 | -.17000 | 1.31000 | .00000 | .06133 | -.27600 | -.25100 | .01330 | 23.12340 | .02814 | .01418 |
| .946 | .110 | .60000 | .37000 | .00000 | .06069 | -.27500 | -.25100 | .01330 | 23.93430 | .02803 | .01419 |
| .947 | 1.080 | 1.81000 | -.34000 | .00000 | .06055 | -.27900 | -.25500 | .01420 | 23.93390 | .02843 | .01441 |
| .949 | 1.830 | 2.27000 | -1.39000 | .00000 | .06134 | -.28000 | -.25600 | .01340 | 23.17090 | .02854 | .01442 |
| .947 | 2.520 | 3.23000 | -1.81000 | .00000 | .06140 | -.27700 | -.25300 | .01490 | 24.02330 | .02822 | .01427 |
| .947 | 3.280 | 3.89000 | -2.67000 | -0.1000 | .06181 | -.27900 | -.25400 | .01340 | 23.54060 | .02839 | .01436 |
| .947 | 4.320 | 4.70000 | -3.94000 | .00000 | .06239 | -.28300 | -.25800 | .01320 | 23.11470 | .02682 | .01458 |
| .947 | 4.990 | 5.64000 | -4.35000 | .00000 | .06366 | -.28600 | -.26100 | .01340 | 23.35170 | .02908 | .01471 |
| .947 | 6.220 | 6.55000 | -5.88000 | .00000 | .06562 | -.28400 | -.25000 | .01460 | 22.92150 | .02893 | .01467 |
| .947 | 6.890 | 7.34000 | -6.44000 | .01000 | .06745 | -.28700 | -.26500 | .01460 | 22.99180 | .02925 | .01496 |
| .948 | 7.640 | 7.97000 | -7.32000 | .00000 | .05964 | -.28300 | -.26300 | .01550 | 23.41100 | .02880 | .01483 |
| .948 | 8.170 | 8.42000 | -7.91000 | .00000 | .07121 | -.28300 | -.26100 | .01490 | 22.53160 | .02883 | .01475 |
| .947 | 9.070 | 9.48000 | -8.57000 | .00000 | .07244 | -.28300 | -.26100 | .01400 | 22.33420 | .02884 | .01470 |
| .948 | 9.750 | 9.97000 | -9.53000 | .01000 | .07508 | -.28800 | -.26400 | .01410 | 22.08400 | .02932 | .01488 |
| .949 | 10.030 | 9.96000 | -10.09000 | .01000 | .07616 | -.28600 | -.26100 | .01170 | 22.43950 | .02906 | .01470 |
| GRADIENT | 1.03620 | -.96422 | -.00027 | -.00027 | -.00008 | -.00074 | -.00104 | .00034 | -.01386 | .00007 | .00006 |

(SUK107) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|--------|--------|----------|--------|---------|
| .977 | -5.020 | -4.99000 | 5.05000 | .00000 | .07567 | -34100 | -31700 | .00420 | 22.78220 | .03465 | .01790 |
| .976 | -4.370 | -4.20000 | 4.54000 | .00000 | .07377 | -33800 | -31500 | .00590 | 23.42410 | .03434 | .01775 |
| .977 | -3.770 | -3.57000 | 3.97000 | .00000 | .07317 | -34000 | -31800 | .00880 | 22.97160 | .03460 | .01796 |
| .977 | -2.750 | -2.43000 | 3.08000 | .00000 | .07177 | -34200 | -32000 | .01180 | 24.12270 | .03475 | .01805 |
| .977 | -1.900 | -1.81000 | 1.98000 | .01000 | .07125 | -33900 | -31700 | .01180 | 23.66460 | .03451 | .01785 |
| .976 | -.860 | -.65000 | 1.68000 | .00000 | .07034 | -33900 | -31600 | .01290 | 23.69550 | .03450 | .01783 |
| .976 | -.110 | .29000 | .53000 | .00000 | .07024 | -34400 | -32000 | .01370 | 22.65820 | .03499 | .01805 |
| .978 | .570 | 1.12000 | -.01000 | .00000 | .07090 | -34400 | -32000 | .01340 | 23.17000 | .03490 | .01806 |
| .978 | 1.480 | 2.07000 | -.89000 | .01000 | .07056 | -34300 | -31800 | .01340 | 23.86320 | .03490 | .01794 |
| .977 | 2.440 | 3.10000 | -1.78000 | .00000 | .07098 | -34200 | -31700 | .01440 | 24.19500 | .03483 | .01789 |
| .977 | 3.380 | 3.92000 | -2.85000 | .00000 | .07146 | -34200 | -31500 | .01290 | 23.51630 | .03484 | .01776 |
| .978 | 4.590 | 5.12000 | -4.06000 | .00000 | .07278 | -34300 | -31400 | .01290 | 24.64490 | .03495 | .01773 |
| .976 | 5.010 | 5.63000 | -4.40000 | .00000 | .07290 | -34000 | -31300 | .01190 | 22.84210 | .03462 | .01764 |
| .976 | 5.650 | 6.39000 | -4.92000 | .01000 | .07477 | -34000 | -31500 | .01130 | 23.79360 | .03462 | .01778 |
| .977 | 6.430 | 7.40000 | -6.11000 | .00000 | .07606 | -34200 | -31900 | .01260 | 23.40520 | .03476 | .01797 |
| .977 | 7.010 | 7.40000 | -6.62000 | .00000 | .08048 | -33700 | -31500 | .01370 | 23.31300 | .03430 | .01777 |
| .976 | 7.720 | 7.90000 | -7.55000 | .00000 | .08181 | -33400 | -31100 | .01370 | 23.27440 | .03401 | .01754 |
| .976 | 8.470 | 8.47000 | -8.47000 | .00000 | .08365 | -34100 | -31500 | .01290 | 22.90260 | .03431 | .01777 |
| .977 | 9.240 | 9.43000 | -9.05000 | .01000 | .08600 | -34100 | -31700 | .01410 | 22.51520 | .03469 | .01789 |
| .977 | 9.950 | 10.02000 | -9.89000 | .02000 | -.00046 | -34000 | -31400 | .01350 | 22.55310 | .03461 | .01770 |
| .977 | GRADIENT | 1.05562 | -.94489 | -.00002 | -.00015 | -.00046 | .00023 | .00063 | .09041 | .00006 | -.00001 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 253/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|---------|----------|---------|---------|---------|--------|---------|----------|---------|---------|
| 1.046 | -4.930 | -4.7300 | 5.1200 | -0.0100 | .08595 | -4.1600 | -38700 | .00860 | 23.51000 | .04231 | .02183 |
| 1.047 | -4.320 | -3.8800 | 4.7500 | .0000 | .08574 | -4.1300 | -38700 | .00790 | 23.49050 | .04202 | .02184 |
| 1.048 | -3.840 | -3.3000 | 4.3300 | .0000 | .08493 | -4.1200 | -38900 | .00790 | 23.62780 | .04194 | .02196 |
| 1.047 | -3.180 | -2.2900 | 4.0700 | .0000 | .08410 | -4.1300 | -38900 | .00710 | 23.73300 | .04199 | .02193 |
| 1.048 | -2.600 | -1.9000 | 3.3000 | .0000 | .08487 | -4.0900 | -39000 | .00910 | 23.31160 | .04160 | .02201 |
| 1.046 | -1.790 | -1.1900 | 2.3800 | .0000 | .08278 | -4.1200 | -39200 | .00720 | 23.46650 | .04193 | .02213 |
| 1.048 | -1.010 | -0.3300 | 1.7000 | .0000 | .08342 | -4.0700 | -38900 | .00730 | 23.41380 | .04138 | .02193 |
| 1.046 | -.240 | .5500 | 1.0400 | .0000 | .08285 | -4.0900 | -39100 | .00720 | 24.02500 | .04160 | .02206 |
| 1.047 | .940 | 1.7800 | .3100 | .0000 | .08316 | -4.0700 | -38900 | .00710 | 23.67210 | .04139 | .02194 |
| 1.047 | 1.810 | 2.3500 | -.0900 | .0000 | .06317 | -4.0600 | -39000 | .00720 | 22.96860 | .04125 | .02196 |
| 1.048 | 2.500 | 3.3000 | -1.2700 | .0000 | .08343 | -4.0400 | -38800 | .00870 | 23.09260 | .04107 | .02187 |
| 1.047 | 3.180 | 3.7200 | -1.7100 | .0000 | .08364 | -4.0200 | -38700 | .00980 | 24.22030 | .04088 | .02181 |
| 1.047 | 4.050 | 4.2800 | -2.6400 | .0000 | .08468 | -4.0000 | -38800 | .00710 | 23.27550 | .04066 | .02187 |
| 1.048 | 4.740 | 5.2200 | -3.8200 | .0000 | .08567 | -3.9900 | -38600 | .00640 | 22.96930 | .04063 | .02178 |
| 1.046 | 5.280 | 5.9900 | -4.2700 | .0100 | .08586 | -4.0100 | -38900 | .00570 | 23.14190 | .04082 | .02191 |
| 1.047 | 6.230 | 6.5600 | -5.9100 | .0100 | .08755 | -4.0000 | -38700 | .00710 | 22.79970 | .04064 | .02180 |
| 1.048 | 6.670 | 6.8700 | -6.4600 | .0000 | .08827 | -4.0200 | -39000 | .00870 | 23.24420 | .04090 | .02197 |
| 1.047 | 7.290 | 7.2900 | -7.2900 | .0000 | .09134 | -4.0200 | -38900 | .00730 | 23.00430 | .04086 | .02194 |
| 1.047 | 8.100 | 7.9700 | -8.2400 | .0000 | .09033 | -4.0500 | -39300 | .00650 | 22.59660 | .04121 | .02215 |
| 1.047 | 8.560 | 8.4600 | -8.8500 | .0000 | .09302 | -4.0700 | -39300 | .00650 | 22.78660 | .04139 | .02217 |
| 1.047 | 9.700 | 9.5900 | -9.1000 | .0000 | .09470 | -4.1300 | -39500 | .00550 | 22.53640 | .04205 | .02229 |
| 1.047 | 10.050 | 10.0800 | -10.0200 | .0000 | .09656 | -4.1600 | -39700 | .00500 | 22.42020 | .04231 | .02239 |
| 1.047 | GRADIENT | .99915 | -1.00093 | .00071 | -.00001 | .00163 | .00009 | -.00012 | -.03545 | -.00017 | -.00001 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

| MACH | ALLRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|-----------|---------|---------|---------|---------|--------|----------|--------|--------|
| .897 | -5.130 | -4.98000 | 5.29000 | .00000 | .04816 | -.23300 | -.22300 | .00390 | 21.33670 | .02372 | .01257 |
| .896 | -4.640 | -4.49000 | 4.80000 | .00000 | .04775 | -.23500 | -.22400 | .00640 | 21.67260 | .02381 | .01264 |
| .896 | -3.940 | -3.69000 | 4.19000 | .00000 | .04610 | -.23400 | -.22300 | .00950 | 21.99450 | .02387 | .01258 |
| .897 | -2.980 | -2.42000 | 3.55000 | .00000 | .04606 | -.23400 | -.22100 | .01040 | 21.39050 | .02388 | .01244 |
| .896 | -2.330 | -2.34000 | 2.33000 | -.01000 | .04437 | -.23500 | -.22000 | .01180 | 23.94460 | .02380 | .01255 |
| .897 | -1.210 | -.79000 | 1.62000 | .00000 | .04441 | -.23400 | -.22200 | .01260 | 22.13100 | .02382 | .01256 |
| .896 | -.040 | .56000 | .64000 | .00000 | .04417 | -.23400 | -.22300 | .01360 | 22.22850 | .02376 | .01253 |
| .897 | .780 | 1.40000 | -.15000 | .00000 | .04379 | -.23300 | -.22200 | .01350 | 23.49570 | .02392 | .01261 |
| .896 | 1.470 | 2.14000 | -.80000 | .00000 | .04374 | -.23500 | -.22400 | .01420 | 22.74250 | .02390 | .01256 |
| .897 | 2.430 | 3.17000 | -1.68000 | .00000 | .04491 | -.23600 | -.22300 | .01510 | 21.54310 | .02395 | .01263 |
| .896 | 2.900 | 3.76000 | -2.09000 | .01000 | .04464 | -.23500 | -.22400 | .01350 | 22.91540 | .02395 | .01266 |
| .897 | 4.070 | 4.75000 | -3.39000 | .01000 | .04565 | -.23500 | -.22400 | .01240 | 22.21190 | .02392 | .01269 |
| .896 | 5.010 | 5.81000 | -4.20000 | .00000 | .04671 | -.23500 | -.22500 | .01180 | 21.96880 | .02381 | .01277 |
| .896 | 5.440 | 6.28000 | -4.61000 | .00000 | .04793 | -.23400 | -.22600 | .01180 | 21.75500 | .02389 | .01279 |
| .897 | 6.380 | 7.11000 | -5.66000 | .00000 | .04915 | -.23500 | -.22700 | .01270 | 21.38630 | .02391 | .01285 |
| .896 | 7.420 | 8.33000 | -6.51000 | .01000 | .05032 | -.23500 | -.22800 | .01240 | 21.32990 | .02391 | .01292 |
| .896 | 8.190 | 8.86000 | -7.52000 | .01000 | .05246 | -.23500 | -.22900 | .01410 | 21.09310 | .02395 | .01298 |
| .895 | 9.310 | 10.02000 | -8.60000 | .00000 | .05416 | -.23500 | -.23000 | .01510 | 21.43400 | .02395 | .01289 |
| .897 | 9.590 | 10.04000 | -9.14000 | .01000 | .05596 | -.23200 | -.22800 | .01240 | 21.38420 | .02365 | .01294 |
| .897 | 10.020 | 10.01000 | -10.03000 | .02000 | .05617 | -.23400 | -.22900 | .01150 | 21.35370 | .02387 | .01294 |
| | GRADIENT | 1.07303 | -.92710 | .00113 | -.00023 | -.00009 | -.00019 | .00069 | .05480 | .00001 | .00001 |

(SUK108) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 263/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|---------|----------|----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .976 | -5.040 | -4.97000 | 5.11000 | .00000 | .07406 | -.33200 | -.31300 | .00610 | 22.56720 | .03380 | .01767 |
| .977 | -4.210 | -3.94000 | 4.48000 | -.01000 | .07312 | -.33500 | -.31700 | .00620 | 22.90140 | .03404 | .01786 |
| .976 | -3.500 | -3.15000 | 3.84000 | .00000 | .07171 | -.33400 | -.31500 | .00970 | 22.44760 | .03400 | .01776 |
| .978 | -2.720 | -2.16000 | 3.28000 | .00000 | .07115 | -.33500 | -.31800 | .01040 | 22.80220 | .03413 | .01795 |
| .976 | -1.920 | -1.66000 | 2.19000 | .00000 | .06993 | -.33300 | -.31500 | .01210 | 22.77520 | .03389 | .01774 |
| .978 | -1.120 | -.63000 | 1.62000 | .00000 | .07004 | -.33800 | -.31900 | .01420 | 23.35150 | .03436 | .01799 |
| .976 | -.300 | .35000 | .97000 | .00000 | .06990 | -.33500 | -.31500 | .01200 | 22.69790 | .03409 | .01774 |
| .978 | 1.340 | 1.02000 | .33000 | -.01000 | .06992 | -.34000 | -.32100 | .01420 | 22.66060 | .03464 | .01810 |
| .976 | 1.050 | 2.04000 | -.07000 | .01000 | .06965 | -.33500 | -.31400 | .01220 | 22.52150 | .03409 | .01772 |
| .977 | 1.770 | 2.42000 | -1.11000 | .00000 | .06951 | -.33800 | -.31700 | .01130 | 23.16340 | .03437 | .01790 |
| .951 | 2.620 | 3.57000 | -1.66000 | .00000 | .06120 | -.27800 | -.26000 | .01080 | 22.52490 | .02825 | .01468 |
| .885 | 3.660 | -.22000 | -3.10000 | .00000 | .03997 | -.22700 | -.21900 | .01090 | 21.26070 | .02313 | .01238 |
| .784 | 4.790 | 5.42000 | -4.16000 | .00000 | .03323 | -.20300 | -.19700 | .01160 | 21.02400 | .02062 | .01114 |
| .701 | 5.360 | 6.21000 | -4.51000 | .00000 | .03248 | -.19500 | -.19300 | .00910 | 21.21830 | .01986 | .01090 |
| .639 | 6.250 | 6.70000 | -5.80000 | .00000 | .03259 | -.19600 | -.19500 | .00560 | 21.05590 | .01999 | .01102 |
| .594 | 6.800 | 7.30000 | -6.30000 | .00000 | .03573 | -.19500 | -.19500 | .00310 | 20.22390 | .01991 | .01099 |
| GRADIENT | 1.05092 | | -.94878 | .00055 | -.00367 | .01284 | .01187 | .00028 | -.15748 | -.00131 | -.00065 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO RN/L = 4.500 ELEVON = .000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO BETA = .000 ALPHA = .000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO GRIT = 1.000 SPDBRK = 25.000
 SCALE = .0150 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 252/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CEL RMS | XCP | CAB | CAC |
|----------|---------|----------|-----------|--------|--------|---------|---------|---------|----------|---------|---------|
| 1.047 | -5.040 | -4.98000 | 5.10000 | .01000 | .08655 | -.41500 | -.38600 | .00500 | 23.08410 | .04221 | .02177 |
| 1.047 | -4.470 | -4.32000 | 4.61000 | .00000 | .08577 | -.41400 | -.38700 | .00650 | 23.24060 | .04216 | .02183 |
| 1.047 | -3.760 | -3.43000 | 4.09000 | .00000 | .08441 | -.41600 | -.39100 | .01060 | 23.58350 | .04231 | .02206 |
| 1.048 | -2.850 | -2.30000 | 3.40000 | .00000 | .08427 | -.41300 | -.38800 | .01220 | 23.06490 | .04197 | .02188 |
| 1.047 | -2.210 | -1.83000 | 2.58000 | .00000 | .08305 | -.41400 | -.38200 | .01450 | 23.21290 | .04211 | .02213 |
| 1.047 | -1.550 | -1.12000 | 1.97000 | .00000 | .08335 | -.41200 | -.39100 | .01260 | 22.88890 | .04193 | .02204 |
| 1.047 | .060 | .00000 | 1.38000 | .00000 | .08327 | -.41000 | -.38200 | .01260 | 23.33360 | .04166 | .02212 |
| 1.047 | .060 | .75000 | .62000 | .00000 | .08307 | -.40800 | -.39100 | .01290 | 23.03960 | .04149 | .02203 |
| 1.048 | .680 | 1.56000 | .19000 | .01000 | .08336 | -.40600 | -.38900 | .01330 | 24.37200 | .04127 | .02192 |
| 1.046 | 1.310 | 2.10000 | -.53000 | .00000 | .08310 | -.40700 | -.39000 | .01280 | 22.96040 | .04137 | .02201 |
| 1.048 | 2.140 | 2.92000 | -1.37000 | .01000 | .08358 | -.40300 | -.38700 | .01290 | 23.38500 | .04104 | .02180 |
| 1.046 | 2.660 | 3.55000 | -1.77000 | .00000 | .08358 | -.40300 | -.38700 | .01450 | 23.00110 | .04114 | .02196 |
| 1.048 | 3.490 | 4.24000 | -2.73000 | .00000 | .08384 | -.40400 | -.38900 | .01210 | 23.50670 | .04074 | .02184 |
| 1.046 | 4.340 | 4.94000 | -3.74000 | .00000 | .08554 | -.40100 | -.38700 | .01210 | 23.46730 | .04077 | .02193 |
| 1.049 | 4.810 | 5.42000 | -4.20000 | .00000 | .08687 | -.39900 | -.38800 | .01190 | 23.08676 | .04064 | .02187 |
| 1.047 | 5.380 | 6.24000 | -4.51000 | .00000 | .08738 | -.40200 | -.39000 | .01200 | 23.72290 | .04087 | .02200 |
| 1.047 | 6.180 | 6.74000 | -5.62000 | .00000 | .08923 | -.40200 | -.39000 | .01400 | 22.17180 | .04089 | .02199 |
| 1.047 | 6.810 | 7.34000 | -6.28000 | .00000 | .09030 | -.40300 | -.39200 | .01220 | 22.99350 | .04102 | .02211 |
| 1.046 | 7.490 | 7.89000 | -7.08000 | .00000 | .09167 | -.40600 | -.39400 | .01280 | 22.84410 | .04134 | .02220 |
| 1.048 | 8.020 | 8.35000 | -7.69000 | .00000 | .09322 | -.40700 | -.39200 | .01260 | 22.58110 | .04142 | .02208 |
| 1.046 | 8.670 | 8.87000 | -8.48000 | .00000 | .09426 | -.41400 | -.39700 | .01220 | 22.52510 | .04211 | .02238 |
| 1.048 | 9.500 | 9.78000 | -9.23000 | .00000 | .09678 | -.41300 | -.39600 | .01280 | 22.30390 | .04198 | .02233 |
| 1.046 | 10.040 | 10.05000 | -10.04000 | .00000 | .09728 | -.41700 | -.40000 | .01280 | 22.68240 | .04240 | .02254 |
| GRADIENT | 1.05140 | | -.94798 | .00019 | .00012 | .00185 | .00020 | .00028 | .00658 | -.00018 | -.00001 |

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 331

(SUK109) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 217/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | A1LRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|----------|--------|---------|---------|---------|---------|----------|---------|---------|
| 1.198 | -5.110 | -4.95000 | 5.26000 | .00000 | .09987 | -.33900 | -.32300 | .01550 | 23.61700 | .03446 | .01821 |
| 1.198 | -4.690 | -4.52000 | 4.87000 | .00000 | .09942 | -.33900 | -.32300 | .02410 | 23.17420 | .03454 | .01820 |
| 1.197 | -3.760 | -3.47000 | 4.05000 | .00000 | .09779 | -.34000 | -.32300 | .01920 | 23.76830 | .03456 | .01824 |
| 1.197 | -2.660 | -2.14000 | 3.17000 | .00000 | .09674 | -.33900 | -.32200 | .02070 | 23.75420 | .03452 | .01817 |
| 1.198 | -1.800 | -1.40000 | 2.20000 | .00000 | .09575 | -.33800 | -.32100 | .02130 | 24.33650 | .03441 | .01808 |
| 1.196 | -.950 | -.37000 | 1.53000 | .00000 | .09534 | -.33800 | -.31900 | .02040 | 24.15020 | .03435 | .01797 |
| 1.197 | -.190 | .47000 | .87000 | .00000 | .09519 | -.33500 | -.31700 | .01690 | 23.76980 | .03412 | .01787 |
| 1.198 | .440 | 1.17000 | .28000 | .00000 | .09515 | -.33400 | -.31430 | .02030 | 24.14470 | .03395 | .01773 |
| 1.197 | 1.150 | 1.33000 | -.38000 | .00000 | .09521 | -.33400 | -.31500 | .01830 | 24.01630 | .03401 | .01775 |
| 1.196 | 2.100 | 2.87000 | -1.33000 | .00000 | .09502 | -.33200 | -.31600 | .01920 | 23.16370 | .03376 | .01780 |
| 1.197 | 2.770 | 3.51000 | -2.02000 | .00000 | .09625 | -.33000 | -.31500 | .02100 | 24.97820 | .03359 | .01776 |
| 1.197 | 3.510 | 4.24000 | -2.78000 | .00000 | .09577 | -.32900 | -.31400 | .02250 | 24.45650 | .03339 | .01771 |
| 1.197 | 4.220 | 4.65000 | -3.78000 | .00000 | .09757 | -.32500 | -.31300 | .01960 | 23.77880 | .03319 | .01764 |
| 1.197 | 5.040 | 5.65000 | -4.44000 | .00000 | .09851 | -.32700 | -.31400 | .01590 | 23.87300 | .03324 | .01771 |
| 1.197 | 5.630 | 6.47000 | -4.79000 | .00000 | .09960 | -.32900 | -.31500 | .02410 | 23.41890 | .03344 | .01778 |
| 1.197 | 6.670 | 7.10000 | -6.24000 | .00000 | .10099 | -.33300 | -.32000 | .02990 | 23.59440 | .03383 | .01807 |
| 1.197 | 7.530 | 7.95000 | -7.11000 | .00000 | .10252 | -.33600 | -.32500 | .02470 | 23.69270 | .03422 | .01834 |
| 1.198 | 8.160 | 8.43000 | -7.90000 | .00000 | .10408 | -.34000 | -.32800 | .02310 | 23.43510 | .03457 | .01851 |
| 1.198 | 9.280 | 9.62000 | -8.95000 | .00000 | .10606 | -.34300 | -.33200 | .02110 | 22.80660 | .03490 | .01870 |
| 1.197 | 9.890 | 10.05000 | -9.74000 | .01000 | .10718 | -.34600 | -.33400 | .02690 | 22.70010 | .03520 | .01884 |
| | GRADIENT | 1.05002 | -.95012 | .00000 | -.00016 | .00154 | .00123 | -.00015 | .03997 | -.00016 | -.00007 |

(SUK110) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 92/ 0 RN/L = 7.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | A1LRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|--------|----------|---------|--------|
| .597 | -4.970 | -4.94000 | 4.99000 | -.01000 | .03228 | -.22200 | -.21000 | .00980 | 21.67380 | .02263 | .01187 |
| .599 | -4.600 | -4.21000 | 4.99000 | -.01000 | .03193 | -.22200 | -.21000 | .00760 | 21.90320 | .02258 | .01186 |
| .598 | -4.310 | -3.61000 | 5.02000 | -.01000 | .03153 | -.22300 | -.21500 | .01110 | 21.46970 | .02272 | .01213 |
| .598 | -3.740 | -2.56000 | 4.92000 | -.01000 | .03136 | -.22100 | -.21300 | .01300 | 23.01080 | .02251 | .01201 |
| .598 | -3.020 | -2.73000 | 3.32000 | .00000 | .03051 | -.22100 | -.21400 | .01160 | 22.22820 | .02248 | .01205 |
| .598 | -1.630 | -.52000 | 2.73000 | .00000 | .03061 | -.21700 | -.21100 | .01250 | 21.29360 | .02208 | .01190 |
| .599 | -.730 | .45000 | 1.93000 | -.01000 | .03023 | -.21900 | -.21500 | .01240 | 21.62250 | .02226 | .01212 |
| .598 | -.360 | .38000 | 1.11000 | .00000 | .03022 | -.21600 | -.21400 | .01290 | 23.81100 | .02201 | .01207 |
| .598 | .560 | 1.52000 | .48000 | .00000 | .03042 | -.21700 | -.21400 | .01170 | 21.65520 | .02205 | .01207 |
| .599 | 1.500 | 2.61000 | -.39000 | .00000 | .03036 | -.21800 | -.21500 | .01300 | 23.78400 | .02215 | .01216 |
| .598 | 2.080 | 3.13000 | -1.03000 | .00000 | .03018 | -.21600 | -.21500 | .01250 | 26.93960 | .02222 | .01215 |
| .599 | 2.930 | 3.75000 | -2.11000 | .00000 | .03058 | -.21600 | -.21400 | .01310 | 25.29370 | .02199 | .01210 |
| .598 | 3.550 | 4.48000 | -2.63000 | .01000 | .03078 | -.21800 | -.21700 | .01420 | 24.14050 | .02221 | .01222 |
| .598 | 4.440 | 5.45000 | -3.43000 | .00000 | .03104 | -.21800 | -.21400 | .01240 | 25.49930 | .02224 | .01210 |
| .598 | 5.230 | 5.99000 | -4.48000 | .00000 | .03158 | -.22200 | -.22000 | .01180 | 23.21710 | .02264 | .01241 |
| .599 | 5.840 | 6.24000 | -5.43000 | .01000 | .03299 | -.22400 | -.21700 | .01060 | 21.71470 | .02259 | .01227 |
| .599 | 7.200 | 7.69000 | -6.71000 | .01000 | .03363 | -.22400 | -.21600 | .01150 | 23.26590 | .02278 | .01231 |
| .598 | 7.480 | 7.68000 | -7.28000 | .01000 | .03465 | -.22600 | -.22100 | .01110 | 23.67430 | .02300 | .01245 |
| .599 | 8.430 | 8.70000 | -8.16000 | .03000 | .03515 | -.22800 | -.22100 | .01180 | 25.30650 | .02325 | .01246 |
| .599 | 9.440 | 9.92000 | -8.95000 | .01000 | .03622 | -.22700 | -.21600 | .00920 | 28.73670 | .02311 | .01221 |
| .599 | 9.950 | 10.27000 | -9.63000 | .02000 | .03774 | -.23100 | -.22500 | .00730 | 22.65220 | .02351 | .01269 |
| .599 | GRADIENT | 1.06223 | -.93831 | .00146 | -.00013 | .00057 | -.00040 | .00035 | .41779 | -.00006 | .00002 |

LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK110) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 8.000 ELEVON = .000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 53/ 0 RN/L = 7.76 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|-----------|---------|---------|---------|---------|--------|----------|--------|--------|
| .900 | -4.380 | -3.99000 | 4.87000 | -.01000 | .04773 | -.23300 | -.21700 | .00630 | 23.35750 | .02374 | .01225 |
| .900 | -3.590 | -3.13000 | 4.05000 | .01000 | .04644 | -.23600 | -.22000 | .00850 | 22.55000 | .02399 | .01240 |
| .900 | -2.930 | -2.38000 | 3.48000 | .00000 | .04607 | -.23400 | -.22000 | .01080 | 24.98360 | .02385 | .01240 |
| .901 | -2.590 | -2.26000 | 2.93000 | .01000 | .04542 | -.23400 | -.21700 | .01170 | 23.54650 | .02381 | .01225 |
| .900 | -1.730 | -1.36000 | 2.11000 | .00000 | .04444 | -.23300 | -.21800 | .01170 | 23.41620 | .02377 | .01229 |
| .901 | -.520 | .06000 | 1.11000 | .00000 | .04426 | -.23600 | -.21800 | .01270 | 24.65650 | .02399 | .01232 |
| .901 | .110 | .78000 | .56000 | .00000 | .04397 | -.23400 | -.21700 | .01300 | 28.96170 | .02385 | .01236 |
| .901 | .850 | 1.61000 | -.10000 | .01000 | .04405 | -.23400 | -.21600 | .01220 | 23.47410 | .02386 | .01241 |
| .901 | 1.500 | 2.33000 | -.68000 | .02000 | .04421 | -.23700 | -.22000 | .01270 | 25.50610 | .02410 | .01241 |
| .901 | 2.280 | 3.26000 | -1.31000 | .00000 | .04472 | -.23500 | -.21900 | .01280 | 22.78640 | .02395 | .01235 |
| .901 | 3.130 | 4.10000 | -2.16000 | .00000 | .04522 | -.23500 | -.21900 | .01300 | 24.85800 | .02390 | .01238 |
| .900 | 3.830 | 4.92000 | -2.73000 | .02000 | .04590 | -.23500 | -.22100 | .01260 | 22.23070 | .02393 | .01244 |
| .900 | 4.570 | 5.65000 | -3.49000 | .03000 | .04648 | -.23400 | -.22000 | .01260 | 24.92290 | .02394 | .01242 |
| .900 | 5.280 | 6.16000 | -4.41000 | .00000 | .04758 | -.23500 | -.22200 | .01210 | 24.50500 | .02394 | .01252 |
| .900 | 6.130 | 7.03000 | -5.22000 | .00000 | .04861 | -.23500 | -.22400 | .01260 | 22.88790 | .02393 | .01262 |
| .901 | 6.790 | 8.02000 | -5.55000 | .04000 | .05007 | -.23200 | -.22200 | .01270 | 21.98200 | .02363 | .01252 |
| .900 | 7.090 | 7.61000 | -6.57000 | .03000 | .05103 | -.23300 | -.22400 | .01400 | 23.02000 | .02377 | .01263 |
| .901 | 8.010 | 8.76000 | -7.26000 | .01000 | .05265 | -.23700 | -.22700 | .01360 | 22.90070 | .02411 | .01279 |
| .901 | 9.080 | 10.22000 | -7.93000 | .05000 | .05393 | -.23700 | -.22800 | .01450 | 22.81340 | .02418 | .01266 |
| .900 | 9.370 | 10.21000 | -8.53000 | .05000 | .05491 | -.23500 | -.22700 | .01310 | 21.50020 | .02393 | .01282 |
| .900 | 9.800 | 10.19000 | -9.41000 | .00000 | .05564 | -.23600 | -.22800 | .01160 | 21.95800 | .02406 | .01284 |
| .901 | 10.070 | 10.17000 | -9.96000 | .05000 | .05665 | -.23300 | -.22600 | .00950 | 22.45460 | .02374 | .01273 |
| .901 | 10.590 | 10.20000 | -10.98000 | .01000 | .05831 | -.23100 | -.22300 | .00990 | 21.52790 | .02350 | .01258 |
| .901 | GRADIENT | 1.09418 | -3.1537 | .00221 | -.00012 | -.00011 | -.00020 | .00051 | .06305 | .00001 | .00001 |

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 113/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|--------|----------|---------|--------|
| .597 | -4.790 | -4.61000 | 4.96000 | -.01000 | .02204 | -.20800 | -.18600 | .00560 | 14.87480 | .02117 | .01053 |
| .597 | -3.970 | -3.77000 | 4.17000 | -.01000 | .02092 | -.20800 | -.18700 | .00860 | 14.90130 | .02121 | .01055 |
| .597 | -3.000 | -2.51000 | 3.49000 | .00000 | .02010 | -.20700 | -.18600 | .01250 | 14.92790 | .02109 | .01051 |
| .597 | -2.330 | -2.05000 | 2.62000 | .00000 | .01990 | -.20700 | -.18800 | .01360 | 14.90480 | .02110 | .01063 |
| .597 | -1.040 | -.54000 | 1.53000 | .00000 | .02024 | -.20500 | -.18900 | .01510 | 14.88650 | .02088 | .01066 |
| .596 | .060 | .66000 | .54000 | .00000 | .01947 | -.20700 | -.19200 | .01530 | 14.97310 | .02112 | .01083 |
| .596 | 1.080 | 1.84000 | -.32000 | .00000 | .01942 | -.20900 | -.19400 | .01510 | 14.96830 | .02124 | .01095 |
| .596 | 2.270 | 2.92000 | -1.63000 | .00000 | .02001 | -.20600 | -.19300 | .01660 | 14.97490 | .02101 | .01090 |
| .597 | 2.910 | 3.58000 | -2.25000 | .00000 | .02064 | -.20600 | -.19300 | .01660 | 15.01360 | .02097 | .01092 |
| .596 | 3.800 | 4.31000 | -3.28000 | .00000 | .02073 | -.20600 | -.19400 | .01590 | 14.98950 | .02096 | .01095 |
| .597 | 4.480 | 4.85000 | -4.12000 | .00000 | .02111 | -.20500 | -.19400 | .01310 | 14.89230 | .02095 | .01098 |
| .597 | 5.230 | 5.86000 | -4.60000 | .00000 | .02153 | -.20500 | -.19400 | .01440 | 14.92300 | .02086 | .01094 |
| .597 | 5.890 | 6.41000 | -5.38000 | .01000 | .02374 | -.20500 | -.19500 | .01610 | 15.04700 | .02094 | .01100 |
| .596 | 6.820 | 7.15000 | -6.50000 | .00000 | .02536 | -.20600 | -.19400 | .01610 | 14.96530 | .02096 | .01095 |
| .597 | 7.890 | 8.30000 | -7.48000 | .01000 | .02665 | -.20600 | -.19500 | .01550 | 15.01660 | .02099 | .01101 |
| .597 | 8.620 | 8.94000 | -8.31000 | .01000 | .02678 | -.21000 | -.19900 | .01570 | 15.05840 | .02140 | .01120 |
| .597 | 9.530 | 10.01000 | -9.05000 | .01000 | .02771 | -.21000 | -.19700 | .01630 | 15.11990 | .02136 | .01114 |
| .597 | 10.010 | 10.06000 | -9.95000 | .01000 | .02771 | -.21000 | -.19700 | .01160 | 14.99290 | .02138 | .01110 |
| .597 | GRADIENT | 1.03701 | -.96323 | .00084 | -.00004 | .00022 | -.00099 | .00081 | .01298 | -.00003 | .00006 |

(SUK111) (26 FEB 76)

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 81/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|--------|---------|---------|---------|--------|----------|--------|--------|
| .896 | -5.080 | -5.09000 | 5.08000 | .00000 | .04531 | -.22300 | -.21000 | .00560 | 15.59170 | .02274 | .01186 |
| .896 | -4.820 | -4.73000 | 4.90000 | .00000 | .04508 | -.22300 | -.21200 | .00540 | 15.58450 | .02272 | .01195 |
| .896 | -4.000 | -3.77000 | 4.24000 | .00000 | .04468 | -.22300 | -.21100 | .00850 | 15.54320 | .02275 | .01189 |
| .896 | -3.340 | -2.91000 | 3.77000 | .00000 | .04355 | -.22400 | -.21000 | .01000 | 15.51110 | .02284 | .01184 |
| .896 | -2.560 | -2.16000 | 2.96000 | .01000 | .04341 | -.22200 | -.21000 | .01010 | 15.48170 | .02264 | .01183 |
| .896 | -1.890 | -1.92000 | 1.87000 | .00000 | .04320 | -.22400 | -.21000 | .01030 | 15.46700 | .02277 | .01184 |
| .896 | -.630 | -.11000 | 1.14000 | .01000 | .04302 | -.22400 | -.21000 | .01030 | 15.43500 | .02285 | .01187 |
| .895 | .300 | .77000 | .16000 | .00000 | .04233 | -.22400 | -.21100 | .01030 | 15.42940 | .02281 | .01191 |
| .896 | 1.320 | 1.39000 | -.76000 | .01000 | .04226 | -.22400 | -.20900 | .01090 | 15.47240 | .02283 | .01180 |
| .897 | 2.250 | 2.85000 | -1.65000 | .00000 | .04276 | -.22500 | -.21200 | .01170 | 15.51360 | .02292 | .01184 |
| .895 | 2.870 | 3.59000 | -2.15000 | .01000 | .04245 | -.22500 | -.21200 | .01180 | 15.54560 | .02296 | .01195 |
| .896 | 3.860 | 4.41000 | -3.32000 | .00000 | .04285 | -.22700 | -.21200 | .01240 | 15.60490 | .02309 | .01195 |
| .896 | 4.750 | 5.29000 | -4.20000 | .01000 | .04379 | -.22400 | -.21200 | .01180 | 15.64360 | .02294 | .01199 |
| .897 | 5.500 | 6.33000 | -4.66000 | .01000 | .04492 | -.22400 | -.21300 | .01470 | 15.70870 | .02281 | .01205 |
| .895 | 6.390 | 7.40000 | -6.00000 | .01000 | .04562 | -.22500 | -.21600 | .01400 | 15.73960 | .02292 | .01221 |
| .896 | 6.900 | 7.98000 | -6.41000 | .01000 | .04630 | -.22500 | -.21600 | .01260 | 15.72230 | .02294 | .01219 |
| .896 | 7.590 | 7.98000 | -7.21000 | .01000 | .04753 | -.22500 | -.21700 | .01550 | 15.73830 | .02288 | .01222 |
| .896 | 8.100 | 8.22000 | -7.98000 | .02000 | .05017 | -.22500 | -.21900 | .01610 | 15.78140 | .02293 | .01238 |
| .895 | 9.000 | 9.10000 | -8.91000 | .02000 | .05118 | -.22200 | -.21800 | .01400 | 15.81000 | .02260 | .01238 |
| .896 | 9.930 | 9.93000 | -9.92000 | .02000 | .05358 | -.22200 | -.21900 | .01390 | 15.80960 | .02265 | .01236 |
| | GRADIENT | 1.05048 | -.94965 | .00100 | -.00017 | -.00027 | -.00003 | .00049 | .00671 | .00003 | .00001 |

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 176/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|-----------|--------|---------|---------|---------|--------|----------|--------|--------|
| .947 | -5.100 | -5.05000 | 5.16000 | .00000 | .06181 | -.27200 | -.24600 | .00620 | 15.64450 | .02773 | .01389 |
| .947 | -4.490 | -4.59000 | 4.38000 | .00000 | .06196 | -.27100 | -.24700 | .00600 | 15.65160 | .02759 | .01393 |
| .948 | -3.670 | -3.67000 | 3.68000 | .00000 | .06076 | -.27100 | -.24700 | .00680 | 15.70730 | .02760 | .01392 |
| .948 | -2.680 | -2.60000 | 2.76000 | .00000 | .05938 | -.27200 | -.24900 | .00560 | 15.70940 | .02765 | .01405 |
| .948 | -2.100 | -2.10000 | 2.09000 | .00000 | .05836 | -.27100 | -.24800 | .00610 | 15.78670 | .02760 | .01401 |
| .947 | -1.520 | -1.49000 | 1.54000 | .00000 | .05851 | -.26800 | -.24500 | .00830 | 15.79890 | .02726 | .01385 |
| .948 | -.630 | -.47000 | .78000 | .00000 | .05848 | -.26700 | -.24600 | .00860 | 15.81990 | .02718 | .01388 |
| .949 | .160 | .39000 | .06000 | .00000 | .05888 | -.27200 | -.25000 | .00700 | 15.84780 | .02769 | .01413 |
| .948 | .400 | .43000 | -.37000 | .00000 | .05822 | -.27000 | -.25000 | .00770 | 15.85460 | .02748 | .01413 |
| .946 | 1.540 | 1.62000 | -1.46000 | .00000 | .05810 | -.26900 | -.25100 | .00550 | 15.79790 | .02737 | .01415 |
| .948 | 2.040 | 2.20000 | -1.88000 | .00000 | .05896 | -.27200 | -.25200 | .00770 | 15.78940 | .02764 | .01424 |
| .948 | 3.250 | 3.30000 | -3.20000 | .00000 | .05927 | -.27600 | -.25600 | .00920 | 15.73540 | .02809 | .01434 |
| .949 | 4.130 | 4.03000 | -4.22000 | .00000 | .06063 | -.27800 | -.25600 | .00920 | 15.72030 | .02828 | .01446 |
| .948 | 4.810 | 4.99000 | -4.63000 | .00000 | .06076 | -.28200 | -.25800 | .00770 | 15.60700 | .02866 | .01455 |
| .948 | 6.200 | 6.29000 | -6.10000 | .00000 | .06208 | -.28500 | -.26200 | .01070 | 15.61580 | .02896 | .01480 |
| .946 | 6.600 | 6.57000 | -6.63000 | .01000 | .06316 | -.28300 | -.26100 | .01150 | 15.55180 | .02875 | .01473 |
| .947 | 7.080 | 6.69000 | -7.46000 | .00000 | .06529 | -.28500 | -.26200 | .00910 | 15.47680 | .02896 | .01480 |
| .948 | 8.180 | 7.84000 | -8.53000 | .00000 | .06680 | -.28700 | -.26500 | .01070 | 15.48440 | .02919 | .01493 |
| .948 | 8.740 | 8.37000 | -9.11000 | .00000 | .06901 | -.28700 | -.26300 | .01150 | 15.53330 | .02919 | .01485 |
| .947 | 9.960 | 9.73000 | -10.19000 | .00000 | .07132 | -.28100 | -.25700 | .00720 | 15.49510 | .02861 | .01449 |
| | GRADIENT | 1.01069 | -.99842 | .00000 | -.00004 | -.00095 | -.00117 | .00023 | -.00090 | .00009 | .00007 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 268/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|-----------|--------|---------|---------|---------|--------|----------|--------|--------|
| .977 | -4.980 | -4.94000 | 5.02000 | .00000 | .07192 | -.34300 | -.31600 | .00500 | 15.66850 | .03493 | .01780 |
| .977 | -4.760 | -4.77000 | 4.75000 | .00000 | .07035 | -.34400 | -.31600 | .00650 | 15.66070 | .03499 | .01781 |
| .975 | -4.070 | -3.91000 | 4.22000 | .00000 | .06921 | -.33600 | -.30700 | .00800 | 15.64210 | .03415 | .01734 |
| .976 | -3.580 | -3.39000 | 3.77000 | .00000 | .06862 | -.33500 | -.30800 | .00830 | 15.70910 | .03411 | .01737 |
| .977 | -2.790 | -2.60000 | 2.98000 | .00000 | .06770 | -.33600 | -.31100 | .00570 | 15.74920 | .03418 | .01755 |
| .978 | -2.060 | -2.10000 | 2.01000 | .00000 | .06725 | -.33500 | -.31300 | .00590 | 15.74160 | .03406 | .01766 |
| .976 | -.840 | -.69000 | .99000 | .00000 | .06659 | -.33400 | -.30800 | .00710 | 15.79860 | .03396 | .01737 |
| .977 | .040 | .43000 | .34000 | .00000 | .06615 | -.33600 | -.31200 | .00730 | 15.86240 | .03418 | .01757 |
| .977 | .460 | .70000 | -.22000 | .00000 | .06655 | -.33600 | -.31100 | .00650 | 15.82140 | .03414 | .01755 |
| .977 | 1.770 | 2.00000 | -1.53000 | .00000 | .06693 | -.33800 | -.31300 | .00790 | 15.84520 | .03441 | .01767 |
| .977 | 2.360 | 2.80000 | -1.91000 | .00000 | .06619 | -.33900 | -.31500 | .00860 | 15.79330 | .03447 | .01776 |
| .975 | 3.090 | 3.17000 | -3.01000 | .00000 | .06640 | -.34100 | -.31400 | .00960 | 15.74580 | .03466 | .01770 |
| .975 | 3.960 | 3.84000 | -4.07000 | .00000 | .06811 | -.33800 | -.31200 | .00800 | 15.71010 | .03435 | .01757 |
| .976 | 4.720 | 5.00000 | -4.45000 | .00000 | .06954 | -.34200 | -.31500 | .00880 | 15.66660 | .03479 | .01778 |
| .978 | 5.610 | 5.82000 | -5.41000 | .00000 | .07059 | -.34600 | -.31800 | .01360 | 15.63990 | .03517 | .01794 |
| .977 | 6.250 | 6.29000 | -6.22000 | .00000 | .07170 | -.34700 | -.32200 | .00950 | 15.59580 | .03528 | .01815 |
| .975 | 6.930 | 6.63000 | -7.22000 | .00000 | .07311 | -.34100 | -.31900 | .01050 | 15.61690 | .03475 | .01799 |
| .976 | 7.500 | 7.35000 | -7.65000 | .00000 | .07617 | -.34200 | -.32000 | .00570 | 15.57110 | .03484 | .01806 |
| .977 | 8.270 | 7.79000 | -8.75000 | .01000 | .07849 | -.34100 | -.31900 | .00730 | 15.52060 | .03468 | .01801 |
| .977 | 9.700 | 9.63000 | -9.77000 | .01000 | .08122 | -.34000 | -.31800 | .00560 | 15.60740 | .03464 | .01793 |
| .977 | 10.020 | 9.93000 | -10.10000 | .00000 | .08170 | -.34100 | -.31800 | .00650 | 15.57590 | .03471 | .01794 |
| | GRADIENT | 1.0:168 | -.98769 | .00000 | -.00027 | -.00007 | -.00021 | .00025 | .03765 | .00000 | .00001 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SFDGRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 254 / 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00 / 5.00

PARAMETRIC DATA

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|----------|--------|---------|---------|---------|--------|----------|---------|--------|
| 1.047 | -5.060 | -4.96000 | 5.15000 | .00000 | .08742 | -.41700 | -.40200 | .00520 | 16.04860 | .04242 | .0267 |
| 1.047 | -4.610 | -4.38000 | 4.84000 | .00000 | .08653 | -.41900 | -.40400 | .00550 | 16.12610 | .04266 | .02277 |
| 1.048 | -3.200 | -3.49000 | 4.51000 | .00000 | .08670 | -.41600 | -.40000 | .01110 | 16.17380 | .04231 | .02255 |
| 1.046 | -2.580 | -2.43000 | 3.96000 | .00000 | .08497 | -.42100 | -.40500 | .01400 | 16.13230 | .04281 | .02281 |
| 1.046 | -1.790 | -1.94000 | 3.21000 | .00000 | .08519 | -.41700 | -.40400 | .01120 | 16.22070 | .04239 | .02275 |
| 1.048 | -.900 | -1.34000 | 2.23000 | .00000 | .08449 | -.41800 | -.40400 | .01040 | 16.22880 | .04248 | .02276 |
| 1.046 | -.240 | -.24000 | 1.56000 | .00000 | .08416 | -.41700 | -.40300 | .01080 | 16.19320 | .04239 | .02272 |
| 1.048 | .360 | .53000 | 1.03000 | .00000 | .08370 | -.41800 | -.40400 | .01110 | 16.19250 | .04257 | .02278 |
| 1.047 | 1.050 | 1.08000 | .31000 | .00000 | .08388 | -.41600 | -.40300 | .01120 | 16.20730 | .04236 | .02271 |
| 1.047 | 1.730 | 2.05000 | -.04000 | .00000 | .08406 | -.41700 | -.40300 | .01190 | 16.21260 | .04238 | .02272 |
| 1.047 | 2.430 | 3.36000 | -1.09000 | .00000 | .08442 | -.41500 | -.40300 | .01110 | 16.19700 | .04225 | .02270 |
| 1.047 | 2.890 | 3.52000 | -1.57000 | .00000 | .08553 | -.41400 | -.40400 | .01370 | 16.15820 | .04214 | .02277 |
| 1.047 | 3.640 | 3.52000 | -2.25000 | .00000 | .08522 | -.41300 | -.40400 | .01230 | 16.15230 | .04205 | .02283 |
| 1.047 | 4.420 | 4.15000 | -3.12000 | .00000 | .08619 | -.41300 | -.40500 | .01260 | 16.15310 | .04215 | .02300 |
| 1.048 | 5.070 | 4.85000 | -3.99000 | .00000 | .08680 | -.41400 | -.40700 | .01320 | 16.13820 | .04201 | .02396 |
| 1.046 | 5.930 | 5.84000 | -4.29000 | .00000 | .08847 | -.41300 | -.40900 | .01260 | 16.12070 | .04218 | .02308 |
| 1.047 | 6.440 | 6.57000 | -5.29000 | .00000 | .08890 | -.41500 | -.40900 | .01300 | 16.08720 | .04208 | .02308 |
| 1.046 | 7.120 | 6.82000 | -6.06000 | .00000 | .08999 | -.41400 | -.41000 | .01310 | 16.09640 | .04243 | .02313 |
| 1.048 | 7.750 | 7.58000 | -6.66000 | .00000 | .09113 | -.41700 | -.41000 | .01510 | 16.10740 | .04216 | .02296 |
| 1.046 | 8.410 | 8.38000 | -7.42000 | .00000 | .09320 | -.41400 | -.40700 | .01330 | 16.10360 | .04254 | .02301 |
| 1.048 | 9.150 | 8.55000 | -8.27000 | .00000 | .09410 | -.41800 | -.40300 | .01300 | 16.03660 | .04239 | .02280 |
| 1.046 | 9.940 | 9.47000 | -8.83000 | .00000 | .09638 | -.41700 | -.40400 | .01300 | 16.06350 | .04270 | .02288 |
| 1.046 | 9.940 | 10.08000 | -9.80000 | .00000 | .09731 | -.42000 | -.40600 | .01300 | 16.03810 | .04270 | .02288 |
| | GRADIENT | 1.01708 | -.98242 | .00057 | -.00000 | .00065 | -.00027 | .00037 | .00034 | -.00006 | .00002 |

LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK112) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.000 ELEVON = .000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 218/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|---------|----------|-----------|---------|--------|---------|---------|---------|----------|---------|---------|
| 1.196 | -5.050 | -4.95000 | 5.14000 | -.01000 | .09548 | -.34700 | -.32600 | .01460 | 16.49540 | .03534 | .01940 |
| 1.198 | -4.800 | -5.02000 | 4.57000 | .00000 | .09525 | -.34600 | -.32600 | .01460 | 16.48760 | .03523 | .01836 |
| 1.198 | -4.320 | -4.39000 | 4.26000 | .02000 | .09475 | -.34300 | -.32300 | .01530 | 16.47250 | .03492 | .01821 |
| 1.198 | -3.330 | -3.21000 | 3.44000 | .00000 | .09341 | -.34200 | -.32000 | .01850 | 16.45140 | .03480 | .01803 |
| 1.198 | -2.390 | -2.24000 | 2.54000 | -.01000 | .09224 | -.34300 | -.32000 | .01680 | 16.48900 | .03487 | .01804 |
| 1.198 | -1.560 | -1.62000 | 1.50000 | .00000 | .09211 | -.34100 | -.32000 | .01550 | 16.46420 | .03458 | .01807 |
| 1.197 | -.580 | -.49000 | .67000 | .00000 | .09222 | -.33900 | -.32000 | .01140 | 16.48840 | .03452 | .01807 |
| 1.197 | .090 | .46000 | .27000 | .00000 | .09221 | -.33800 | -.32100 | .01470 | 16.50860 | .03441 | .01808 |
| 1.197 | .340 | .50000 | -.18000 | .01000 | .09203 | -.33900 | -.32000 | .01530 | 16.49650 | .03440 | .01806 |
| 1.198 | 1.210 | 1.56000 | -.85000 | .00000 | .09244 | -.33600 | -.32000 | .01610 | 16.50450 | .03422 | .01807 |
| 1.198 | 2.130 | 2.30000 | -1.97000 | .00000 | .09279 | -.33600 | -.32200 | .01460 | 16.49650 | .03423 | .01813 |
| 1.197 | 2.940 | 3.25000 | -2.63000 | .01000 | .09309 | -.33600 | -.32200 | .01610 | 16.47170 | .03422 | .01816 |
| 1.196 | 3.690 | 3.77000 | -3.62000 | .02000 | .09385 | -.33700 | -.32200 | .01610 | 16.49050 | .03424 | .01815 |
| 1.197 | 4.360 | 4.33000 | -4.38000 | .00000 | .09467 | -.33500 | -.32100 | .01380 | 16.47900 | .03414 | .01812 |
| 1.198 | 4.770 | 4.92000 | -4.62000 | .00000 | .09525 | -.33600 | -.32200 | .01610 | 16.44310 | .03417 | .01817 |
| 1.198 | 6.320 | 6.37000 | -6.26000 | .00000 | .09667 | -.33500 | -.32100 | .01460 | 16.42120 | .03406 | .01813 |
| 1.199 | 6.800 | 6.60000 | -7.00000 | -.01000 | .09788 | -.33600 | -.32500 | .01590 | 16.46220 | .03424 | .01831 |
| 1.197 | 7.730 | 7.60000 | -7.85000 | -.03000 | .09889 | -.34100 | -.33000 | .02100 | 16.44760 | .03474 | .01860 |
| 1.199 | 8.550 | 8.11000 | -8.99000 | -.01000 | 1.0130 | -.34200 | -.33300 | .02070 | 16.51440 | .03483 | .01877 |
| 1.197 | 9.670 | 9.58000 | -9.77000 | .01000 | 1.0239 | -.34400 | -.33500 | .01840 | 16.49060 | .03504 | .01890 |
| 1.196 | 10.020 | 9.93000 | -10.12000 | .00000 | 1.0319 | -.34400 | -.33300 | .01830 | 16.53730 | .03501 | .01880 |
| GRADIENT | | 1.02306 | -.97664 | .00027 | .00002 | .00101 | .00010 | -.00005 | -.00005 | -.00010 | -.00000 |

(SUK113) (26 FEB 76)

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RUN NO. 39/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00
 RN/L = 3.50 J ELEVON = .000
 BETA = .CJO ALPHA = 6.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CFB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|-----------|---------|---------|---------|---------|--------|----------|--------|--------|
| .598 | -4.980 | -4.94000 | 5.02000 | -0.1000 | .01396 | -21300 | -19200 | .00610 | 15.43000 | .02167 | .01084 |
| .597 | -4.140 | -3.95000 | 4.33000 | -0.1000 | .01385 | -21300 | -18800 | .00800 | 15.42270 | .02167 | .01060 |
| .598 | -3.450 | -3.09000 | 3.82000 | .00000 | .01240 | -21400 | -19400 | .01020 | 15.40230 | .02183 | .01093 |
| .599 | -2.690 | -2.32000 | 3.06000 | .00000 | .01486 | -21400 | -19100 | .01190 | 15.42260 | .02181 | .01080 |
| .598 | -2.060 | -2.13000 | 1.99000 | .00000 | .01515 | -21500 | -19700 | .01360 | 15.39910 | .02190 | .01109 |
| .599 | -1.610 | -1.82000 | 1.39000 | .00000 | .01041 | -21500 | -19600 | .01440 | 15.46410 | .02191 | .01106 |
| .598 | -.270 | -.18000 | .73000 | .00000 | .01315 | -21300 | -19700 | .01470 | 15.50130 | .02172 | .01112 |
| .598 | .470 | .94000 | .00000 | .00000 | .01114 | -21700 | -19800 | .01610 | 15.48140 | .02206 | .01119 |
| .597 | 1.250 | 1.33000 | -.67000 | .00000 | .01164 | -21600 | -19400 | .01500 | 15.47840 | .02198 | .01094 |
| .596 | 2.070 | 2.50000 | -1.54000 | .00000 | .01257 | -21600 | -20000 | .01470 | 15.44410 | .02201 | .01127 |
| .598 | 2.700 | 3.31000 | -2.08000 | .00000 | .01208 | -21600 | -20000 | .01470 | 15.47900 | .02196 | .01127 |
| .597 | 3.310 | 3.70000 | -2.91000 | .00000 | .01148 | -21200 | -19800 | .01470 | 15.46110 | .02157 | .01115 |
| .598 | 4.260 | 4.56000 | -3.96000 | .00000 | .01413 | -21600 | -19800 | .01470 | 15.43600 | .02196 | .01130 |
| .597 | 5.040 | 5.49000 | -4.58000 | .00000 | .01365 | -21000 | -20200 | .01360 | 15.48900 | .02141 | .01118 |
| .597 | 5.380 | 5.78000 | -4.98000 | .00000 | .01383 | -21500 | -19300 | .01500 | 15.41310 | .02191 | .01140 |
| .598 | 6.070 | 5.97000 | -6.17000 | .00000 | .01462 | -21300 | -20200 | .01500 | 15.42940 | .02169 | .01122 |
| .597 | 7.160 | 7.45000 | -6.78000 | .00000 | .01714 | -21000 | -19700 | .01610 | 15.46600 | .02143 | .01112 |
| .597 | 7.760 | 8.07000 | -7.46000 | .00000 | .01739 | -21300 | -19800 | .01470 | 15.41640 | .02167 | .01118 |
| .598 | 8.090 | 8.12000 | -8.06000 | .00000 | .01810 | -21500 | -20100 | .01470 | 15.47350 | .02186 | .01133 |
| .596 | 9.410 | 9.53000 | -8.85000 | .00000 | .01973 | -21900 | -20000 | .01470 | 15.42240 | .02216 | .01130 |
| .598 | 9.810 | 10.06000 | -9.57000 | .00000 | .02087 | -21500 | -19900 | .01440 | 15.44880 | .02190 | .01125 |
| .597 | 10.050 | 10.02000 | -10.02000 | .01000 | .02035 | -21500 | -20000 | .00940 | 15.38790 | .02184 | .01130 |
| | GRADIENT | 1.0+501 | -.95358 | .00077 | -.00017 | -.00022 | -.00102 | .00092 | .00555 | .00002 | .00005 |

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) (SUK114) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RUN NO. 40/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 BETA = .000 ALPHA = 6.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|---------|----------|---------|--------|
| .597 | -5.040 | -5.11000 | 4.96000 | -0.1000 | .01346 | -.21600 | -.19100 | .00080 | 15.45220 | .02201 | .01080 |
| .596 | -4.730 | -4.50000 | 4.96000 | .00000 | .01465 | -.21800 | -.19600 | -.00050 | 15.50200 | .02217 | .01107 |
| .596 | -4.200 | -5.11000 | 3.29000 | .00000 | .01295 | -.21700 | -.19800 | .00220 | 15.64160 | .02214 | .01116 |
| .597 | -3.760 | -5.17000 | 2.36000 | .00000 | .01275 | -.21400 | -.19500 | .00330 | 15.51840 | .02182 | .01101 |
| .595 | -3.340 | -2.22000 | 4.46000 | .00000 | .01428 | -.21700 | -.19800 | .00300 | 15.70400 | .02210 | .01116 |
| .596 | -3.100 | -4.72000 | 1.48000 | .00000 | .01317 | -.21600 | -.19500 | .00470 | 15.42210 | .02198 | .01101 |
| .597 | -1.300 | -1.85000 | .75000 | .00000 | .01183 | -.21500 | -.19600 | .00500 | 15.38160 | .02186 | .01106 |
| .596 | .150 | .30000 | .00000 | .00000 | .01069 | -.21700 | -.19700 | .00470 | 15.40880 | .02210 | .01113 |
| .597 | .440 | .35000 | -.53000 | .00000 | .01213 | -.21700 | -.19700 | .00660 | 15.39030 | .02207 | .01114 |
| .596 | 1.340 | 1.71000 | -.99000 | .00000 | .01099 | -.21800 | -.20000 | .00440 | 15.42650 | .02222 | .01129 |
| .596 | 2.200 | 2.39000 | -2.02000 | .00000 | .01213 | -.21600 | -.20000 | .00330 | 15.46450 | .02195 | .01128 |
| .597 | 2.950 | 3.30000 | -2.61000 | .00000 | .01177 | -.21800 | -.19900 | .00470 | 15.33090 | .02215 | .01123 |
| .597 | 3.930 | 4.15000 | -3.70000 | .00000 | .01099 | -.21400 | -.19900 | .00580 | 15.36180 | .02178 | .01123 |
| .596 | 4.550 | 4.55000 | -4.54000 | .00000 | .01350 | -.21500 | -.20300 | .00330 | 15.40010 | .02184 | .01148 |
| .596 | 5.120 | 5.44000 | -4.80000 | .00000 | .01369 | -.21000 | -.19700 | .00640 | 15.38170 | .02139 | .01112 |
| .597 | 5.930 | 5.97000 | -5.89000 | .00000 | .01484 | -.21200 | -.19900 | .00470 | 15.38860 | .02157 | .01117 |
| .597 | 6.200 | 5.77000 | -6.64000 | .01000 | .01600 | -.21300 | -.19900 | .00220 | 15.34380 | .02173 | .01122 |
| .597 | 7.690 | 7.84000 | -7.53000 | .00000 | .01681 | -.21300 | -.20000 | .00330 | 15.25430 | .02168 | .01129 |
| .598 | 8.180 | 8.26000 | -8.10000 | .00000 | .01851 | -.21000 | -.19900 | .00050 | 15.35000 | .02142 | .01121 |
| .596 | 8.670 | 8.41000 | -8.92000 | .00000 | .01855 | -.21600 | -.20200 | .00220 | 15.32190 | .02198 | .01139 |
| .598 | 9.110 | 8.61000 | -9.61000 | .00000 | .01895 | -.21300 | -.19700 | .00580 | 15.35940 | .02172 | .01113 |
| .597 | 10.030 | 10.07000 | -9.99000 | .00000 | .02024 | -.21300 | -.19700 | .00640 | 15.32920 | .02171 | .01111 |
| | GRADIENT | 1.09563 | -.90451 | .00000 | -.00019 | .00008 | -.00054 | .00029 | -.02292 | -.00001 | .00003 |

(SUK115) (26 FEB 76)

LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000
 BETA = .000 ALPHA = 6.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 41/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|-----------|--------|---------|---------|---------|--------|----------|---------|--------|
| .597 | -4.960 | -4.95000 | 4.97000 | .00000 | .01407 | -.21700 | -.19500 | .00410 | 15.47330 | .02214 | .01102 |
| .597 | -3.940 | -3.95000 | 3.93000 | .00000 | .01341 | -.21700 | -.19500 | .00690 | 15.38520 | .02209 | .01105 |
| .597 | -1.980 | -1.97000 | 2.00000 | .00000 | .01179 | -.21700 | -.19500 | .00470 | 15.40490 | .02211 | .01098 |
| .597 | -.990 | -1.01000 | .97000 | .00000 | .01163 | -.21900 | -.19800 | .00330 | 15.42490 | .02226 | .01119 |
| .596 | .000 | .02000 | -.03000 | .00000 | .01108 | -.22000 | -.19900 | .00440 | 15.36570 | .02238 | .01125 |
| .597 | 1.010 | .97000 | -1.05000 | .00000 | .01119 | -.21700 | -.19900 | .00550 | 15.30780 | .02212 | .01122 |
| .597 | 1.990 | 2.00000 | -1.97000 | .00000 | .01166 | -.21700 | -.19900 | .00780 | 15.34330 | .02208 | .01121 |
| .596 | 4.040 | 4.04000 | -4.04000 | .00000 | .01198 | -.21700 | -.20100 | .00550 | 15.37830 | .02209 | .01132 |
| .596 | 5.030 | 5.06000 | -4.99000 | .00000 | .01390 | -.21400 | -.19800 | .00750 | 15.22980 | .02177 | .01120 |
| .596 | 6.010 | 6.02000 | -6.01000 | .00000 | .01569 | -.21400 | -.20000 | .01060 | 15.30350 | .02182 | .01127 |
| .597 | 7.990 | 7.99000 | -7.98000 | .01000 | .01840 | -.21600 | -.20100 | .00920 | 15.32600 | .02194 | .01136 |
| .596 | 10.010 | 10.02000 | -10.00000 | .00000 | .02017 | -.21900 | -.20200 | .00670 | 15.33660 | .02232 | .01143 |
| | GRADIENT | .99933 | -1.00039 | .00000 | -.00025 | -.00002 | -.00067 | .00014 | -.01108 | -.00000 | .00004 |

REFERENCE DATA PARAMETRIC DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO ELEVON = .000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO ALPHA = 6.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO SPDBRK = 25.000
 SCALE = .0150 RUDDER = .000
BOFLAP = .000

RUN NO. 42/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALLRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|--------|----------|---------|--------|
| .596 | -4.970 | -4.96000 | 4.97000 | -.01000 | .01251 | -.22100 | -.19700 | .00500 | 15.44170 | .02251 | .01113 |
| .598 | -3.950 | -3.95000 | 3.94000 | .00000 | .01303 | -.22000 | -.19700 | .00190 | 15.39340 | .02243 | .01114 |
| .596 | -1.990 | -1.96000 | 2.02000 | .00000 | .01043 | -.22000 | -.20100 | .00550 | 15.53190 | .02259 | .01134 |
| .597 | -.980 | -.99000 | .97000 | .00000 | .01045 | -.22000 | -.19900 | .00750 | 15.37590 | .02243 | .01123 |
| .597 | -.010 | .00000 | .01000 | .00000 | .01093 | -.21900 | -.19900 | .00390 | 15.34850 | .02231 | .01123 |
| .597 | .990 | .95000 | -1.03000 | .00000 | .01129 | -.22000 | -.20100 | .00690 | 15.35970 | .02242 | .01135 |
| .596 | 2.000 | 2.02000 | -1.99000 | .00000 | .01133 | -.22100 | -.20200 | .00950 | 15.35290 | .02245 | .01139 |
| .597 | 4.040 | 4.04000 | -4.04000 | .00000 | .01138 | -.21600 | -.19900 | .00500 | 15.34680 | .02203 | .01126 |
| .597 | 5.010 | 5.04000 | -4.98000 | .00000 | .01393 | -.21800 | -.20100 | .00580 | 15.26530 | .02218 | .01136 |
| .597 | 6.000 | 6.01000 | -6.00000 | .00000 | .01366 | -.21600 | -.20100 | .00750 | 15.33990 | .02198 | .01137 |
| .596 | 8.000 | 8.00000 | -8.01000 | .00000 | .01667 | -.21700 | -.20200 | .00610 | 15.32280 | .02211 | .01140 |
| .598 | 10.000 | 10.03000 | -9.97000 | .01000 | .01955 | -.21900 | -.20200 | .00690 | 15.35750 | .02229 | .01140 |
| | GRADIENT | .99863 | -1.00066 | .00069 | -.00015 | .00037 | -.00037 | .00036 | -.01506 | -.00004 | .00002 |

(SUK117) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 114/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|----------|---------|---------|---------|---------|--------|----------|---------|--------|
| .597 | -5.020 | -4.96000 | 5.07000 | .00000 | -.00821 | -.21000 | -.18700 | .00790 | 15.67470 | .02141 | .01055 |
| .596 | -4.470 | -4.20000 | 4.73000 | -.01000 | -.00922 | -.21000 | -.18800 | .00640 | 15.70740 | .02140 | .01062 |
| .597 | -3.520 | -3.13000 | 3.92000 | .00000 | -.01047 | -.21200 | -.18900 | .01160 | 15.70870 | .02154 | .01069 |
| .597 | -2.640 | -2.16000 | 3.13000 | .00000 | -.01009 | -.21200 | -.19000 | .01350 | 15.71280 | .02155 | .01074 |
| .596 | -2.020 | -1.99000 | 2.06000 | .00000 | -.01071 | -.21000 | -.19000 | .01460 | 15.70750 | .02140 | .01072 |
| .597 | -.770 | -.10000 | 1.43000 | .00000 | -.01169 | -.21100 | -.19100 | .01460 | 15.71780 | .02151 | .01076 |
| .597 | .140 | .77000 | .47000 | .00000 | -.01172 | -.21100 | -.19100 | .01520 | 15.73920 | .02148 | .01080 |
| .597 | 1.170 | 1.68000 | -.47000 | .00000 | -.01133 | -.21100 | -.19300 | .01500 | 15.68590 | .02151 | .01087 |
| .596 | 2.020 | 2.33000 | -1.70000 | .00000 | -.01083 | -.21100 | -.19200 | .01480 | 15.70170 | .02145 | .01085 |
| .598 | 3.010 | 3.50000 | -2.53000 | .00000 | -.01044 | -.20900 | -.19200 | .01540 | 15.68960 | .02126 | .01086 |
| .597 | 4.140 | 4.45000 | -3.83000 | .00000 | -.00935 | -.21000 | -.19400 | .01520 | 15.70650 | .02135 | .01097 |
| .596 | 5.090 | 5.64000 | -4.55000 | .01000 | -.00982 | -.20900 | -.19500 | .01500 | 15.71600 | .02128 | .01102 |
| .596 | 5.580 | 6.35000 | -4.92000 | .01000 | -.00803 | -.20800 | -.19500 | .01610 | 15.74650 | .02115 | .01098 |
| .597 | 6.390 | 6.70000 | -6.09000 | .01000 | -.00711 | -.20800 | -.19500 | .01630 | 15.75690 | .02117 | .01100 |
| .597 | 6.990 | 7.40000 | -6.58000 | .01000 | -.00577 | -.20500 | -.19300 | .01800 | 15.72700 | .02092 | .01088 |
| .597 | 7.980 | 8.33000 | -7.64000 | .01000 | -.00438 | -.20800 | -.19500 | .01650 | 15.73820 | .02117 | .01101 |
| .597 | 9.000 | 9.41000 | -8.59000 | .02000 | -.00356 | -.20800 | -.19400 | .01630 | 15.75130 | .02114 | .01099 |
| .597 | 9.720 | 10.09000 | -9.46000 | .02000 | -.00260 | -.21000 | -.19700 | .01540 | 15.74500 | .02143 | .01112 |
| .597 | 10.000 | 10.08000 | -9.91000 | .02000 | -.00149 | -.21100 | -.19800 | .01180 | 15.71410 | .02153 | .01120 |
| GRADIENT | | 1.01525 | -.98554 | .00056 | -.00004 | .00014 | -.00360 | .00071 | -.00155 | -.00002 | .00003 |

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 82/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|---------|----------|-----------|--------|--------|---------|---------|--------|----------|--------|--------|
| .896 | -5.080 | -5.06000 | 5.10000 | .01000 | .04110 | -.24200 | -.21900 | .01180 | 16.01600 | .02466 | .01234 |
| .896 | -4.200 | -3.87000 | 4.54000 | .00000 | .04090 | -.24000 | -.22100 | .01000 | 16.03380 | .02443 | .01245 |
| .896 | -3.620 | -3.13000 | 4.12000 | .00000 | .03931 | -.23900 | -.22000 | .01170 | 16.01380 | .02437 | .01242 |
| .895 | -2.840 | -2.24000 | 3.44000 | .00000 | .03839 | -.24000 | -.22000 | .01620 | 15.96860 | .02446 | .01241 |
| .896 | -2.390 | -1.98000 | 2.80000 | .00000 | .03847 | -.24000 | -.22200 | .01850 | 15.99580 | .02443 | .01252 |
| .896 | -1.300 | -.71000 | 1.88000 | .00000 | .03757 | -.23800 | -.22100 | .01470 | 15.94150 | .02426 | .01249 |
| .897 | -.300 | .52000 | 1.12000 | .00000 | .03754 | -.24000 | -.22500 | .01850 | 15.98270 | .02447 | .01272 |
| .895 | .540 | 1.32000 | .23000 | .00000 | .03751 | -.24000 | -.22400 | .01530 | 15.97150 | .02443 | .01261 |
| .896 | 1.200 | 1.97000 | -.42000 | .00000 | .03751 | -.24200 | -.22600 | .01710 | 15.96460 | .02467 | .01274 |
| .896 | 2.300 | 3.14000 | -1.46000 | .00000 | .03780 | -.24200 | -.22600 | .02020 | 15.99070 | .02459 | .01273 |
| .895 | 2.990 | 3.96000 | -2.08000 | .01000 | .03908 | -.24100 | -.22500 | .02100 | 16.01460 | .02452 | .01268 |
| .896 | 3.820 | 4.34000 | -3.50000 | .00000 | .03970 | -.24100 | -.22500 | .01460 | 16.00410 | .02457 | .01272 |
| .897 | 4.890 | 5.41000 | -4.36000 | .00000 | .04024 | -.24300 | -.22900 | .01390 | 16.00520 | .02472 | .01294 |
| .895 | 5.570 | 6.36000 | -4.77000 | .00000 | .04099 | -.24100 | -.23000 | .01410 | 16.03370 | .02456 | .01299 |
| .896 | 6.400 | 6.76000 | -6.04000 | .00000 | .04212 | -.24400 | -.23100 | .01300 | 16.04950 | .02484 | .01305 |
| .897 | 7.050 | 7.50000 | -6.61000 | .01000 | .04390 | -.24400 | -.23100 | .01300 | 16.09190 | .02480 | .01306 |
| .896 | 7.780 | 8.09000 | -7.47000 | .00000 | .04487 | -.24600 | -.23300 | .01610 | 16.10760 | .02500 | .01315 |
| .896 | 8.320 | 8.35000 | -8.28000 | .00000 | .04556 | -.24800 | -.23600 | .01320 | 16.12040 | .02522 | .01333 |
| .895 | 9.120 | 9.15000 | -9.09000 | .01000 | .04750 | -.24800 | -.23600 | .01550 | 16.15150 | .02528 | .01331 |
| .896 | 10.010 | 10.03000 | -10.00000 | .01000 | .04852 | -.24900 | -.23800 | .01330 | 16.20130 | .02539 | .01343 |
| GRADIENT | 1.02962 | 1.02962 | -.97049 | .00029 | .00000 | -.00034 | -.00085 | .00045 | .00009 | .00003 | .00005 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BRREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SFDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 177/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CSLRMS | XCP | CAB | CAC |
|------|----------|----------|-----------|---------|---------|---------|---------|--------|----------|--------|--------|
| .947 | -4.990 | -5.04000 | 4.95000 | .01000 | .05308 | -.29300 | -.25900 | .00620 | 16.33590 | .02977 | .01459 |
| .947 | -4.660 | -4.77000 | 4.56000 | .00000 | .05184 | -.29400 | -.25900 | .00900 | 16.34790 | .02990 | .01459 |
| .948 | -3.970 | -3.81000 | 4.13000 | .00000 | .05100 | -.29600 | -.26100 | .00900 | 16.34740 | .03014 | .01470 |
| .950 | -2.960 | -2.70000 | 3.22000 | .00000 | .05091 | -.29500 | -.26000 | .01210 | 16.35740 | .03006 | .01467 |
| .947 | -2.510 | -2.14000 | 2.87000 | .00000 | .05030 | -.28800 | -.25500 | .01510 | 16.36310 | .02927 | .01438 |
| .947 | -1.750 | -1.67000 | 1.82000 | .00000 | .04888 | -.29200 | -.25900 | .01300 | 16.36570 | .02970 | .01464 |
| .947 | -.590 | -1.10000 | 1.07000 | .00000 | .04811 | -.29300 | -.26200 | .01390 | 16.33310 | .02982 | .01479 |
| .949 | .250 | -.67000 | 1.17000 | .00000 | .04852 | -.29300 | -.26100 | .01210 | 16.33560 | .02978 | .01471 |
| .949 | 1.370 | 1.39000 | -.85000 | .00000 | .04795 | -.29700 | -.26500 | .01600 | 16.34900 | .03026 | .01496 |
| .949 | 1.850 | 1.98000 | -1.71000 | .00000 | .04865 | -.29900 | -.26800 | .01150 | 16.34750 | .03045 | .01509 |
| .947 | 2.560 | 2.63000 | -2.48000 | .01000 | .04868 | -.29200 | -.26100 | .01300 | 16.35020 | .02968 | .01473 |
| .946 | 3.310 | 3.35000 | -3.25000 | .00000 | .04851 | -.29500 | -.26400 | .01240 | 16.31510 | .03000 | .01488 |
| .949 | 4.040 | 3.94000 | -4.14000 | .00000 | .04999 | -.30300 | -.26900 | .01360 | 16.37070 | .03080 | .01515 |
| .948 | 4.620 | 4.74000 | -4.50000 | .00000 | .05092 | -.29900 | -.26700 | .01630 | 16.34450 | .03038 | .01506 |
| .946 | 5.850 | 5.80000 | -5.91000 | .00000 | .05143 | -.29700 | -.26900 | .01690 | 16.32490 | .03018 | .01515 |
| .948 | 6.460 | 6.50000 | -6.41000 | .01000 | .05281 | -.30100 | -.27100 | .01690 | 16.35730 | .03060 | .01526 |
| .949 | 7.080 | 6.93000 | -7.33000 | .00000 | .05453 | -.30100 | -.27100 | .01370 | 16.35410 | .03059 | .01532 |
| .949 | 8.000 | 7.64000 | -8.35000 | .00000 | .05680 | -.29900 | -.27100 | .01310 | 16.40340 | .03042 | .01526 |
| .947 | 8.850 | 8.50000 | -9.20000 | .01000 | .05848 | -.29500 | -.26800 | .01460 | 16.39680 | .03005 | .01511 |
| .947 | 9.850 | 9.65000 | -10.05000 | .01000 | .05992 | -.29400 | -.26500 | .01580 | 16.39700 | .02993 | .01494 |
| .947 | GRADIENT | 1.00102 | -.95874 | -.00014 | -.00028 | -.00062 | -.00034 | .00062 | -.00033 | .00006 | .00005 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (SUK117) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPCBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 269/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|--------|----------|--------|--------|
| .978 | -4.880 | -4.98000 | 4.78000 | .00000 | .06320 | -.37600 | -.34200 | .00990 | 16.40420 | .03820 | .01928 |
| .976 | -4.250 | -3.98000 | 4.53000 | .00000 | .06087 | -.37300 | -.34000 | .00880 | 16.39820 | .03794 | .01917 |
| .978 | -3.510 | -3.12000 | 3.90000 | .00000 | .05988 | -.37400 | -.34100 | .01270 | 16.38290 | .03804 | .01922 |
| .977 | -2.690 | -2.29000 | 3.09000 | -.01000 | .05937 | -.37200 | -.33800 | .01120 | 16.36690 | .03779 | .01908 |
| .976 | -1.990 | -1.49000 | 2.49000 | .00000 | .05881 | -.36700 | -.33400 | .00950 | 16.41460 | .03736 | .01881 |
| .976 | -1.060 | -.50000 | 1.61000 | .00000 | .05756 | -.36700 | -.33400 | .01170 | 16.40830 | .03735 | .01885 |
| .977 | -.250 | .49000 | .99000 | .00000 | .05813 | -.37100 | -.33800 | .01120 | 16.43490 | .03778 | .01904 |
| .976 | .720 | 1.58000 | 1.30000 | .00000 | .05698 | -.37300 | -.33900 | .01090 | 16.43990 | .03798 | .01914 |
| .977 | 1.270 | 1.97000 | -.67000 | .00000 | .05729 | -.37000 | -.34100 | .01100 | 16.41920 | .03835 | .01922 |
| .977 | 2.210 | 2.76000 | -1.65000 | .00000 | .05787 | -.37600 | -.34100 | .01030 | 16.41530 | .03828 | .01924 |
| .976 | 3.160 | 3.46000 | -2.85000 | .01000 | .05749 | -.37800 | -.34500 | .01040 | 16.42020 | .03848 | .01943 |
| .978 | 3.940 | 4.04000 | -3.65000 | .00000 | .05919 | -.37700 | -.34500 | .01180 | 16.42440 | .03839 | .01943 |
| .977 | 4.670 | 4.95000 | -4.38000 | .01000 | .06054 | -.37700 | -.34500 | .01180 | 16.42940 | .03832 | .01945 |
| .975 | 5.210 | 5.82000 | -4.61000 | .00000 | .05982 | -.37400 | -.34000 | .01260 | 16.43710 | .03505 | .01919 |
| .977 | 6.140 | 6.40000 | -5.86000 | .00000 | .06273 | -.37700 | -.34900 | .01100 | 16.42690 | .03837 | .01969 |
| .978 | 6.640 | 6.85000 | -6.42000 | .01000 | .05462 | -.37900 | -.35300 | .01190 | 16.44750 | .03854 | .01973 |
| .977 | 7.540 | 7.74000 | -7.34000 | .00000 | .06567 | -.37600 | -.34800 | .01190 | 16.44720 | .03822 | .01963 |
| .978 | 8.120 | 8.19000 | -8.05000 | .00000 | .06833 | -.37500 | -.34600 | .01250 | 16.47620 | .03820 | .01954 |
| .976 | 9.010 | 9.22000 | -8.80000 | .00000 | .06985 | -.37100 | -.34300 | .01240 | 16.46660 | .03773 | .01935 |
| .975 | 9.930 | 10.06000 | -9.80000 | .01000 | .07143 | -.36800 | -.34100 | .01360 | 16.49010 | .03747 | .01924 |
| | GRADIENT | 1.01232 | -.59768 | .00089 | -.00028 | -.00055 | -.00061 | .00015 | .00379 | .00006 | .00003 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 219/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|--------|----------|-----------|---------|--------|---------|---------|--------|----------|---------|--------|
| 1.198 | -5.040 | 5.05000 | 5.05000 | .00000 | .08483 | -.36000 | -.34100 | .01080 | 16.80730 | .03661 | .01924 |
| 1.197 | -4.100 | 4.32000 | 4.32000 | .02000 | .08433 | -.36000 | -.34000 | .01150 | 16.77800 | .03662 | .01919 |
| 1.197 | -3.410 | 3.68000 | 3.68000 | .00000 | .08288 | -.36000 | -.34100 | .01300 | 16.77770 | .03658 | .01923 |
| 1.197 | -2.500 | 2.82000 | 2.82000 | -.01000 | .08274 | -.36000 | -.34300 | .01290 | 16.79040 | .03664 | .01932 |
| 1.197 | -1.480 | 1.64000 | 1.64000 | -.01000 | .08237 | -.36000 | -.34500 | .01230 | 16.76390 | .03661 | .01946 |
| 1.198 | -.860 | 1.49000 | 1.23000 | .00000 | .08225 | -.35900 | -.34600 | .01370 | 16.77190 | .03645 | .01949 |
| 1.197 | -.080 | .21000 | .39000 | .01000 | .08219 | -.35800 | -.34600 | .01230 | 16.76270 | .03637 | .01953 |
| 1.197 | .680 | .92000 | -.44000 | .01000 | .08252 | -.35800 | -.34700 | .01070 | 16.79020 | .03644 | .01957 |
| 1.196 | 1.670 | 1.35000 | -1.49000 | .00000 | .08262 | -.35900 | -.34800 | .01120 | 16.75190 | .03652 | .01965 |
| 1.197 | 2.120 | 2.30000 | -1.95000 | .00000 | .08276 | -.35900 | -.35000 | .01070 | 16.78290 | .03657 | .01971 |
| 1.198 | 2.920 | 3.18000 | -2.66000 | .00000 | .08311 | -.35800 | -.35000 | .01610 | 16.78620 | .03644 | .01976 |
| 1.196 | 3.620 | 3.69000 | -3.57000 | -.01000 | .08391 | -.35800 | -.35100 | .01590 | 16.79340 | .03660 | .01981 |
| 1.197 | 4.450 | 4.43000 | -4.47000 | .00000 | .08452 | -.35900 | -.34900 | .01320 | 16.77320 | .03653 | .01970 |
| 1.197 | 5.070 | 5.44000 | -4.70000 | .00000 | .08535 | -.36000 | -.34900 | .01300 | 16.77930 | .03659 | .01970 |
| 1.198 | 6.210 | 6.39000 | -6.04000 | .00000 | .08638 | -.35900 | -.35000 | .01290 | 16.78930 | .03639 | .01976 |
| 1.197 | 6.600 | 6.73000 | -6.47000 | .00000 | .08678 | -.35900 | -.35100 | .01510 | 16.80590 | .03649 | .01980 |
| 1.197 | 7.640 | 7.67000 | -7.60000 | .00000 | .08961 | -.35900 | -.35200 | .02380 | 16.85630 | .03651 | .01985 |
| 1.197 | 8.400 | 8.37000 | -8.43000 | .02000 | .09019 | -.35900 | -.35200 | .02080 | 16.84330 | .03652 | .01986 |
| 1.197 | 9.270 | 9.37000 | -9.16000 | .02000 | .09229 | -.35800 | -.35100 | .01990 | 16.85410 | .03643 | .01980 |
| 1.198 | 10.040 | 10.05000 | -10.04000 | .00000 | .09276 | -.35700 | -.35000 | .01980 | 16.87110 | .03637 | .01975 |
| | | .97477 | -1.03517 | -.00087 | .00007 | .00013 | -.00122 | .00022 | .00039 | -.00001 | .00007 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

| MACH | AILLRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|--------|----------|--------|--------|
| .597 | -4.850 | -4.76000 | 4.94000 | -.01000 | -.02753 | -.22800 | -.20900 | .00550 | 15.88950 | .02317 | .01180 |
| .597 | -4.180 | -3.94000 | 4.42000 | -.01000 | -.02792 | -.22700 | -.20700 | .00830 | 15.91530 | .02308 | .01169 |
| .596 | -3.250 | -2.64000 | 3.85000 | .00000 | -.02829 | -.22900 | -.21000 | .01220 | 15.93540 | .02335 | .01187 |
| .597 | -2.490 | -2.05000 | 2.93000 | .00000 | -.02878 | -.23000 | -.21000 | .01500 | 15.94340 | .02345 | .01183 |
| .597 | -1.890 | -1.95000 | 1.84000 | .00000 | -.02920 | -.22900 | -.20900 | .01390 | 15.92420 | .02335 | .01180 |
| .596 | -.890 | -.51000 | 1.26000 | .00000 | -.02938 | -.23100 | -.21000 | .01480 | 15.91400 | .02352 | .01187 |
| .597 | .180 | .60000 | .23000 | .00000 | -.02980 | -.23200 | -.21200 | .01540 | 15.92850 | .02367 | .01196 |
| .596 | 1.320 | 1.88000 | -.76000 | .00000 | -.02971 | -.23200 | -.21100 | .01590 | 15.92780 | .02360 | .01193 |
| .597 | 2.300 | 2.75000 | -1.84000 | .00000 | -.02910 | -.23100 | -.21400 | .01610 | 15.94340 | .02355 | .01206 |
| .596 | 3.410 | 3.77000 | -3.05000 | .00000 | -.02851 | -.22900 | -.21400 | .01650 | 15.94440 | .02333 | .01205 |
| .597 | 4.560 | 4.95000 | -4.17000 | .00000 | -.02721 | -.22800 | -.21300 | .01710 | 15.95710 | .02325 | .01200 |
| .597 | 5.290 | 6.02000 | -4.57000 | .00000 | -.02653 | -.22600 | -.21400 | .01870 | 15.97280 | .02320 | .01209 |
| .597 | 5.890 | 6.42000 | -5.37000 | .01000 | -.02572 | -.22700 | -.21400 | .01850 | 15.96920 | .02310 | .01206 |
| .597 | 6.650 | 7.00000 | -6.30000 | .01000 | -.02462 | -.22600 | -.21400 | .01850 | 15.96380 | .02300 | .01207 |
| .597 | 7.390 | 7.82000 | -6.95000 | .01000 | -.02376 | -.22600 | -.21300 | .01930 | 15.96880 | .02299 | .01205 |
| .597 | 8.220 | 8.54000 | -7.91000 | .01000 | -.02230 | -.22400 | -.21200 | .01780 | 15.97310 | .02279 | .01195 |
| .597 | 9.250 | 9.65000 | -8.65000 | .01000 | -.02093 | -.22500 | -.21300 | .01890 | 15.97930 | .02296 | .01199 |
| .596 | 9.920 | 10.06000 | -9.77000 | .01000 | -.02046 | -.22500 | -.21100 | .01720 | 15.95120 | .02292 | .01192 |
| | GRADIENT | 1.02183 | -.97778 | .00081 | -.00003 | -.00017 | -.00063 | .00098 | .00435 | .00002 | .00003 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 351

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK119) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 83/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|-----------|--------|--------|---------|---------|--------|----------|---------|--------|
| .896 | -5.040 | -5.02000 | 5.05000 | .01000 | .03779 | -.29500 | -.26800 | .02260 | 16.23870 | .02998 | .01513 |
| .897 | -4.050 | -3.84000 | 4.26000 | .00000 | .03659 | -.28900 | -.26600 | .01560 | 16.22910 | .02938 | .01499 |
| .895 | -3.430 | -3.10000 | 3.77000 | .00000 | .03562 | -.28200 | -.26300 | .02030 | 16.20800 | .02873 | .01485 |
| .896 | -2.600 | -2.22000 | 2.99000 | .00000 | .03547 | -.28600 | -.26500 | .02110 | 16.25090 | .02916 | .01494 |
| .896 | -1.800 | -1.87000 | 1.74000 | .00000 | .03412 | -.29600 | -.26400 | .01960 | 16.20680 | .02907 | .01487 |
| .896 | -.860 | -.80000 | .92000 | .00000 | .03373 | -.28400 | -.26400 | .01620 | 16.17800 | .02889 | .01489 |
| .896 | -.070 | .31000 | .45000 | .00000 | .03391 | -.28300 | -.26200 | .01770 | 16.19880 | .02880 | .01475 |
| .896 | .610 | .87000 | .36000 | .00000 | .03354 | -.28400 | -.26400 | .01700 | 16.21170 | .02894 | .01489 |
| .896 | 1.560 | 1.30000 | -1.33000 | .00300 | .03395 | -.28500 | -.26500 | .01700 | 16.19560 | .02904 | .01496 |
| .896 | 1.870 | 2.00000 | -1.74000 | .00000 | .03476 | -.28200 | -.26500 | .01710 | 16.21900 | .02872 | .01494 |
| .896 | 2.780 | 3.04000 | -2.53000 | .00000 | .03553 | -.28300 | -.26900 | .02010 | 16.22750 | .02877 | .01517 |
| .896 | 3.520 | 3.64000 | -3.39000 | .00000 | .03603 | -.28300 | -.26900 | .02020 | 16.22760 | .02882 | .01516 |
| .897 | 4.480 | 4.57000 | -4.39000 | .01000 | .03767 | -.28400 | -.27100 | .02230 | 16.24400 | .02894 | .01530 |
| .896 | 5.090 | 5.50000 | -4.68000 | .00000 | .03839 | -.28700 | -.27500 | .01830 | 16.26250 | .02921 | .01550 |
| .896 | 6.160 | 6.30000 | -6.01000 | .00000 | .03945 | -.28900 | -.27500 | .02620 | 16.25920 | .02940 | .01549 |
| .896 | 6.620 | 6.77000 | -6.47000 | .00000 | .04083 | -.28700 | -.27300 | .03000 | 16.28210 | .02916 | .01541 |
| .897 | 7.520 | 7.54000 | -7.51000 | .00000 | .04288 | -.29400 | -.27700 | .02390 | 16.29800 | .02991 | .01560 |
| .895 | 8.420 | 8.45000 | -8.39000 | .00000 | .04381 | -.29500 | -.27900 | .01790 | 16.30460 | .03003 | .01571 |
| .896 | 9.230 | 9.04000 | -9.41000 | .00000 | .04599 | -.28600 | -.27900 | .01680 | 16.31510 | .03011 | .01574 |
| .896 | 10.020 | 10.02000 | -10.02000 | .01000 | .04751 | -.28600 | -.28300 | .01530 | 16.31900 | .03015 | .01595 |
| GRADIENT | .98826 | -1.01234 | .00051 | .00008 | .00037 | -.00066 | .00024 | .00024 | .00121 | -.00003 | .00004 |

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK119) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 178/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|--------|----------|-----------|---------|---------|---------|---------|--------|----------|--------|---------|
| .948 | -4.820 | -5.04000 | 4.60000 | .03000 | .04453 | -.36000 | -.31600 | .00820 | 16.48160 | .03667 | .01782 |
| .948 | -4.140 | -4.54000 | 3.73000 | .02000 | .04340 | -.36000 | -.31500 | .00770 | 16.43730 | .03660 | .01777 |
| .946 | -3.380 | -3.73000 | 3.03000 | .03000 | .04215 | -.35500 | -.30700 | .00860 | 16.41890 | .03610 | .01730 |
| .947 | -2.430 | -3.04000 | 1.82000 | .02000 | .04244 | -.35400 | -.30400 | .01150 | 16.41590 | .03605 | .01713 |
| .949 | -1.790 | -2.28000 | 1.30000 | .02000 | .04217 | -.36000 | -.30600 | .01150 | 16.42070 | .03662 | .01726 |
| .949 | -1.240 | -1.97000 | .50000 | .03000 | .04140 | -.35800 | -.30500 | .01300 | 16.40310 | .03642 | .01722 |
| .946 | -.700 | -1.40000 | .00000 | .02000 | .04071 | -.35300 | -.29900 | .01240 | 16.38220 | .03588 | .01687 |
| .948 | .170 | -.54000 | -.90000 | .02000 | .04128 | -.35600 | -.30300 | .01220 | 16.40000 | .03624 | .01709 |
| .948 | .910 | -.27000 | -1.54000 | .03000 | .04061 | -.36000 | -.30500 | .01060 | 16.40070 | .03664 | .01721 |
| .947 | 1.360 | .69000 | -2.03000 | .03000 | .04090 | -.35300 | -.30000 | .01660 | 16.38300 | .03594 | .01695 |
| .946 | 2.490 | 1.70000 | -3.28000 | .02000 | .04089 | -.35400 | -.30400 | .01150 | 16.39950 | .03539 | .01716 |
| .948 | 3.400 | 2.68000 | -4.13000 | .02000 | .04237 | -.35800 | -.30800 | .01150 | 16.40720 | .03640 | .01739 |
| .949 | 3.990 | 3.56000 | -4.41000 | .02000 | .04210 | -.36400 | -.31800 | .01080 | 16.42690 | .03707 | .01793 |
| .949 | 5.060 | 4.54000 | -5.57000 | .01000 | .04313 | -.36800 | -.32400 | .00850 | 16.45010 | .03746 | .01830 |
| .947 | 5.860 | 5.54000 | -6.17000 | .01000 | .04434 | -.36300 | -.32100 | .01230 | 16.46100 | .03691 | .01812 |
| .947 | 6.620 | 6.47000 | -6.78000 | .02000 | .04644 | -.35500 | -.31700 | .01540 | 16.46520 | .03607 | .01787 |
| .949 | 7.200 | 6.75000 | -7.66000 | .02000 | .04892 | -.35400 | -.31700 | .00840 | 16.47700 | .03630 | .01789 |
| .948 | 8.100 | 7.67000 | -8.54000 | .02000 | .05018 | -.34800 | -.31100 | .00840 | 16.50190 | .03543 | .01754 |
| .947 | 8.810 | 8.34000 | -9.29000 | .02000 | .05172 | -.34900 | -.31300 | .01300 | 16.51840 | .03551 | .01763 |
| .948 | 9.930 | 9.74000 | -10.12000 | .01000 | .05469 | -.35000 | -.31600 | .01300 | 16.54470 | .03564 | .01784 |
| .948 | .96226 | -1.03721 | -.00050 | -.00024 | -.00066 | -.00006 | .00033 | .00042 | -.00505 | .00001 | -.00002 |

GRADIENT

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK119) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 270/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | GPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|-----------|--------|---------|---------|---------|--------|----------|--------|--------|
| .975 | -4.980 | -4.93000 | 5.03000 | .00000 | .05442 | -4.2700 | -38100 | .01100 | 16.56180 | .04347 | .02146 |
| .977 | -4.860 | -4.94000 | 4.39000 | .00000 | .05424 | -4.2800 | -38100 | .01080 | 16.50180 | .04356 | .02149 |
| .977 | -4.100 | -4.52000 | 3.69000 | .00000 | .05366 | -4.2800 | -38000 | .00810 | 16.50000 | .04351 | .02145 |
| .977 | -3.180 | -3.65000 | 2.72000 | .01000 | .05212 | -4.2900 | -37800 | .00720 | 16.46710 | .04362 | .02132 |
| .978 | -2.130 | -2.72000 | 1.53000 | .00000 | .05210 | -4.2800 | -38100 | .00880 | 16.45070 | .04350 | .02147 |
| .977 | -1.600 | -2.38000 | .83000 | .00000 | .05156 | -4.2800 | -38100 | .00870 | 16.44650 | .04358 | .02147 |
| .977 | -1.220 | -2.15000 | .29000 | .00000 | .04989 | -4.3000 | -37700 | .00720 | 16.43370 | .04379 | .02124 |
| .976 | -.390 | -1.38000 | -.56000 | .00000 | .04949 | -4.2800 | -37500 | .01170 | 16.43810 | .04356 | .02115 |
| .976 | .690 | -.16000 | -1.56000 | .00000 | .04902 | -4.2600 | -37500 | .01630 | 16.40790 | .04337 | .02115 |
| .978 | 1.180 | .00000 | -1.76000 | .00000 | .05058 | -4.3500 | -38100 | .01640 | 16.43780 | .04422 | .02149 |
| .977 | 2.070 | 1.29000 | -2.85000 | .00000 | .04994 | -4.3600 | -38400 | .01250 | 16.43470 | .04432 | .02166 |
| .976 | 2.850 | 1.97000 | -3.72000 | .00000 | .04986 | -4.3400 | -38500 | .01350 | 16.43320 | .04411 | .02169 |
| .977 | 3.560 | 2.91000 | -4.20000 | .01000 | .05148 | -4.3500 | -38600 | .00720 | 16.45670 | .04421 | .02176 |
| .976 | 4.200 | 3.73000 | -4.67000 | .00000 | .05118 | -4.3600 | -39100 | .00960 | 16.46470 | .04434 | .02207 |
| .978 | 5.220 | 4.83000 | -5.62000 | .00060 | .05351 | -4.4000 | -39700 | .01320 | 16.49330 | .04471 | .02240 |
| .978 | 6.130 | 5.94000 | -6.32000 | .00000 | .05465 | -4.4000 | -40100 | .00950 | 16.52380 | .04477 | .02261 |
| .978 | 7.050 | 6.69000 | -7.40000 | .00000 | .05630 | -4.3800 | -40200 | .00810 | 16.52910 | .04453 | .02265 |
| .977 | 7.850 | 7.48000 | -8.22000 | .00000 | .05776 | -4.3300 | -39500 | .00580 | 16.54900 | .04407 | .02229 |
| .976 | 8.510 | 7.93000 | -9.09000 | .00000 | .05943 | -4.3000 | -38900 | .00710 | 16.56510 | .04371 | .02193 |
| .976 | 9.670 | 9.39000 | -5.35000 | .01000 | .06250 | -4.3300 | -39400 | .00570 | 16.57610 | .04405 | .02223 |
| .978 | 9.910 | 9.74000 | -10.09000 | .00000 | .06300 | -4.3700 | -40000 | .00580 | 16.58150 | .04440 | .02258 |
| | GRADIENT | .94995 | -1.05040 | .00012 | -.00040 | -.00097 | -.00078 | .00029 | -.00793 | .00009 | .00004 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
 REFERENCE DATA
 SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 256/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|--------|----------|----------|---------|---------|---------|---------|--------|----------|---------|--------|
| 1.046 | -5.110 | -5.06000 | 5.16000 | .00000 | .06848 | -.48200 | -.45500 | .00810 | 16.60970 | .04898 | .02564 |
| 1.049 | -4.700 | -4.69000 | 4.70000 | .00000 | .06880 | -.47500 | -.45100 | .00810 | 16.60740 | .04827 | .02544 |
| 1.046 | -4.190 | -4.22000 | 4.16000 | .00000 | .06828 | -.47600 | -.45200 | .01380 | 16.59590 | .04846 | .02549 |
| 1.047 | -3.550 | -3.69000 | 3.42000 | .00000 | .06756 | -.47300 | -.45000 | .01390 | 16.56470 | .04810 | .02539 |
| 1.047 | -2.750 | -3.13000 | 2.37000 | .00000 | .06671 | -.47400 | -.44900 | .01390 | 16.55010 | .04818 | .02531 |
| 1.047 | -1.940 | -2.23000 | 1.66000 | .00000 | .06626 | -.47300 | -.44700 | .01520 | 16.54700 | .04810 | .02522 |
| 1.047 | -1.440 | -1.90000 | .98000 | .00000 | .06616 | -.47100 | -.44300 | .01300 | 16.53630 | .04794 | .02500 |
| 1.047 | -.880 | -1.44000 | .31000 | .00000 | .06549 | -.47300 | -.44500 | .01380 | 16.53550 | .04809 | .02510 |
| 1.048 | -.020 | -.34000 | -.26000 | -.01000 | .06578 | -.46900 | -.44200 | .01500 | 16.52330 | .04771 | .02492 |
| 1.047 | .850 | .44000 | .44000 | .00000 | .06522 | -.47000 | -.44400 | .01590 | 16.52540 | .04783 | .02505 |
| 1.047 | 1.180 | 1.03000 | -1.25000 | .00000 | .06574 | -.47000 | -.44400 | .01310 | 16.54580 | .04776 | .02503 |
| 1.047 | 1.880 | 1.97000 | -1.34000 | .00000 | .06578 | -.47100 | -.44500 | .01240 | 16.54770 | .04791 | .02510 |
| 1.047 | 2.510 | 2.18000 | -1.78000 | .01000 | .06618 | -.47200 | -.44700 | .01570 | 15.56470 | .04804 | .02522 |
| 1.047 | 3.550 | 3.28000 | -2.18000 | .00000 | .06677 | -.47400 | -.45100 | .01820 | 15.57280 | .04823 | .02543 |
| 1.048 | 3.990 | 3.74000 | -3.81000 | .00000 | .06786 | -.47400 | -.45200 | .01660 | 16.59080 | .04826 | .02549 |
| 1.047 | 4.460 | 4.43000 | -4.23000 | .00000 | .06838 | -.47700 | -.45700 | .01380 | 16.59880 | .04847 | .02577 |
| 1.047 | 5.590 | 5.40000 | -4.48000 | .01000 | .06947 | -.47000 | -.46100 | .01750 | 16.60120 | .04835 | .02599 |
| 1.048 | 6.230 | 6.37000 | -5.78000 | .00000 | .07071 | -.47300 | -.46000 | .01660 | 16.60480 | .04814 | .02595 |
| 1.047 | 6.890 | 6.82000 | -6.96000 | .00000 | .07223 | -.47300 | -.46200 | .01520 | 16.64140 | .04815 | .02602 |
| 1.047 | 7.530 | 7.52000 | -7.45000 | .00000 | .07338 | -.47400 | -.46200 | .01650 | 16.63640 | .04819 | .02605 |
| 1.047 | 8.170 | 8.12000 | -8.23000 | .00000 | .07475 | -.47300 | -.46200 | .01450 | 16.66500 | .04811 | .02604 |
| 1.046 | 8.840 | 8.75000 | -8.94000 | .01000 | .07580 | -.47600 | -.46400 | .01560 | 16.66640 | .04838 | .02616 |
| 1.048 | 9.760 | 9.74000 | -9.79000 | .01000 | .07764 | -.47700 | -.46400 | .01560 | 16.67270 | .04847 | .02617 |
| 1.047 | 10.030 | 10.08000 | -9.98000 | .00000 | .07836 | -.47800 | -.46700 | .01500 | 16.64270 | .04857 | .02631 |
| | | .99861 | -1.00049 | .00051 | -.00008 | .00007 | -.00017 | .00040 | .00006 | -.00001 | .00001 |

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK120) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPDGRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 220/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|-----------|---------|---------|---------|---------|--------|----------|---------|--------|
| 1.197 | -4.990 | -4.98000 | 5.00000 | .01000 | .07651 | -.39000 | -.37400 | .01120 | 16.60860 | .03966 | .02109 |
| 1.198 | -4.650 | -4.99000 | 4.30000 | .01000 | .07620 | -.38900 | -.37200 | .01590 | 16.77250 | .03956 | .02100 |
| 1.196 | -4.170 | -4.68000 | 3.64000 | .00000 | .07577 | -.39000 | -.37100 | .01970 | 16.75240 | .03972 | .02091 |
| 1.197 | -3.430 | -3.90000 | 2.96000 | .00000 | .07520 | -.39100 | -.37200 | .02075 | 16.74300 | .03976 | .02095 |
| 1.198 | -2.900 | -3.68000 | 2.11000 | .00000 | .07448 | -.38800 | -.36900 | .01530 | 16.73610 | .03949 | .02079 |
| 1.198 | -1.680 | -2.44000 | .91000 | .00000 | .07387 | -.38600 | -.36800 | .01980 | 16.73070 | .03932 | .02073 |
| 1.198 | -1.160 | -1.99000 | .33000 | .00000 | .07359 | -.38900 | -.36900 | .01450 | 16.71570 | .03960 | .02080 |
| 1.197 | -.360 | -1.09000 | -.37000 | .02000 | .07338 | -.38800 | -.37000 | .01300 | 16.71910 | .03945 | .02089 |
| 1.197 | 1.090 | .37000 | -1.81000 | .00000 | .07286 | -.38800 | -.37200 | .01910 | 16.70790 | .03949 | .02100 |
| 1.197 | 1.390 | .65000 | -2.13000 | .00000 | .07335 | -.38900 | -.37300 | .02510 | 16.71710 | .03946 | .02102 |
| 1.198 | 2.250 | 1.55000 | -2.95000 | .00000 | .07407 | -.38600 | -.37200 | .01380 | 16.73220 | .03926 | .02095 |
| 1.197 | 3.060 | 2.30000 | -3.83000 | .00000 | .07478 | -.38600 | -.37400 | .01320 | 16.73450 | .03925 | .02110 |
| 1.197 | 4.020 | 3.45000 | -4.60000 | .01000 | .07578 | -.38500 | -.37400 | .01300 | 16.73890 | .03917 | .02107 |
| 1.196 | 4.470 | 4.10000 | -4.83000 | .00000 | .07642 | -.38400 | -.37400 | .01910 | 16.72400 | .03904 | .02108 |
| 1.198 | 5.580 | 5.02000 | -6.14000 | .00000 | .07793 | -.38500 | -.37500 | .01290 | 16.76800 | .03920 | .02117 |
| 1.197 | 6.200 | 5.89000 | -6.51000 | .00000 | .07808 | -.38800 | -.38100 | .01210 | 16.76500 | .03948 | .02147 |
| 1.196 | 6.930 | 6.48000 | -7.37600 | .01000 | .07884 | -.39000 | -.38200 | .01830 | 16.77580 | .03964 | .02155 |
| 1.196 | 7.580 | 7.36000 | -7.80000 | .01000 | .08048 | -.38900 | -.38100 | .01670 | 16.80510 | .03959 | .02150 |
| 1.197 | 8.520 | 8.18000 | -8.87000 | .02000 | .08190 | -.38900 | -.38000 | .01390 | 16.83070 | .03961 | .02144 |
| 1.197 | 9.560 | 9.35000 | -9.78000 | .01000 | .08327 | -.39000 | -.38100 | .01290 | 16.82910 | .03965 | .02150 |
| 1.198 | 10.050 | 9.91000 | -10.18000 | .00000 | .08422 | -.39000 | -.38100 | .01980 | 16.84570 | .03968 | .02150 |
| GRADIENT | | .97286 | -1.02653 | -.00028 | -.00008 | .00053 | -.00026 | .00000 | -.00494 | -.00006 | .00001 |

(SUK121) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMPP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 91/ 0 RN/L = 8.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELV-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|-----------|---------|---------|---------|---------|--------|----------|---------|--------|
| .580 | -4.930 | -4.91000 | 4.95000 | .00000 | -.03416 | -.25500 | -.23300 | .01110 | 16.01320 | .02592 | .01312 |
| .599 | -3.830 | -3.93000 | 3.73000 | -.01000 | -.03373 | -.26500 | -.24000 | .01300 | 16.02150 | .02694 | .01352 |
| .597 | -3.270 | -3.27000 | 3.27000 | -.01000 | -.03401 | -.26100 | -.23700 | .01490 | 16.01910 | .02662 | .01334 |
| .599 | -2.700 | -2.82000 | 2.58000 | -.01000 | -.03457 | -.26200 | -.23800 | .01600 | 15.98770 | .02670 | .01342 |
| .599 | -2.030 | -2.37000 | 1.69000 | .00000 | -.03465 | -.25800 | -.23600 | .01860 | 15.99090 | .02631 | .01332 |
| .598 | -1.690 | -2.48000 | .90000 | -.02000 | -.03468 | -.26100 | -.23800 | .01530 | 15.99120 | .02657 | .01345 |
| .599 | -.560 | -.74000 | .37000 | .00000 | -.03578 | -.26100 | -.23900 | .01590 | 15.98340 | .02655 | .01347 |
| .599 | .170 | .19000 | -.14000 | -.01000 | -.03569 | -.26300 | -.23800 | .01430 | 15.99430 | .02576 | .01343 |
| .599 | .750 | .54000 | -.96000 | -.01000 | -.03518 | -.25700 | -.23600 | .01480 | 15.99850 | .02618 | .01329 |
| .599 | 1.490 | 1.54000 | -1.14000 | .00000 | -.03521 | -.26000 | -.24000 | .01590 | 16.01270 | .02651 | .01352 |
| .598 | 2.170 | 1.94000 | -2.40000 | -.01000 | -.03466 | -.26100 | -.23700 | .01740 | 16.01860 | .02654 | .01338 |
| .598 | 2.830 | 2.89000 | -2.77000 | -.01000 | -.03464 | -.26000 | -.24000 | .01870 | 16.02230 | .02643 | .01354 |
| .599 | 3.640 | 3.34000 | -3.93000 | .00000 | -.03410 | -.25900 | -.24000 | .02040 | 16.01240 | .02632 | .01354 |
| .599 | 4.475 | 4.09000 | -4.84000 | .00000 | -.03314 | -.25700 | -.24300 | .01920 | 16.01380 | .02615 | .01371 |
| .598 | 5.210 | 5.22000 | -5.21000 | .00000 | -.03273 | -.25800 | -.24400 | .01850 | 16.02160 | .02624 | .01376 |
| .599 | 5.750 | 5.94000 | -5.56000 | .00000 | -.03193 | -.25600 | -.24000 | .01660 | 16.01080 | .02602 | .01375 |
| .597 | 6.430 | 6.07000 | -6.79000 | .01000 | -.03122 | -.25400 | -.24100 | .01870 | 16.01110 | .02585 | .01361 |
| .599 | 6.710 | 6.12000 | -7.30000 | .01000 | -.02981 | -.25400 | -.24300 | .01850 | 16.02390 | .02594 | .01368 |
| .598 | 7.770 | 7.41000 | -8.13000 | .01000 | -.02911 | -.25500 | -.24100 | .01730 | 16.02900 | .02578 | .01361 |
| .599 | 8.070 | 7.34000 | -8.80000 | .01000 | -.02823 | -.25300 | -.24100 | .01800 | 16.00580 | .02569 | .01341 |
| .598 | 9.020 | 8.62000 | -9.42000 | .02000 | -.02695 | -.25200 | -.23800 | .01920 | 16.02330 | .02598 | .01361 |
| .599 | 9.930 | 9.92000 | -10.04000 | .00000 | -.02529 | -.25500 | -.24100 | .01920 | 16.04710 | .02598 | .01361 |
| | GRADIENT | .59030 | -1.00887 | .00045 | .00000 | .00016 | -.00953 | .00067 | .00101 | -.00002 | .00003 |

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK121) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 54/ 0 RN/L = 7.76 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|-----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .900 | -4.270 | -4.73000 | 3.82000 | .02000 | .03496 | -.31900 | -.28600 | .01130 | 16.24750 | .03247 | .01612 |
| .901 | -3.430 | -3.78000 | 3.09000 | .02000 | .03382 | -.32000 | -.28600 | .01050 | 16.23200 | .03252 | .01612 |
| .902 | -2.780 | -3.04000 | 2.52000 | .02000 | .03321 | -.31800 | -.28600 | .01730 | 16.23360 | .03238 | .01599 |
| .899 | -1.980 | -2.26000 | 1.71000 | .00000 | .03274 | -.31200 | -.28300 | .02150 | 16.21700 | .03175 | .01569 |
| .900 | -1.460 | -2.05000 | .87000 | .00000 | .03191 | -.30500 | -.27800 | .01810 | 16.19530 | .03105 | .01590 |
| .901 | -1.060 | -1.82000 | .29000 | .00000 | .03160 | -.31400 | -.28200 | .01740 | 16.17000 | .03191 | .01560 |
| .900 | -.210 | -.92000 | -.50000 | .02000 | .03153 | -.30900 | -.27700 | .01800 | 16.17530 | .03142 | .01557 |
| .900 | .500 | -.16000 | -.16000 | .00000 | .03163 | -.30800 | -.27600 | .01650 | 16.16450 | .03132 | .01557 |
| .900 | 1.290 | .52000 | -2.06000 | .01000 | .03170 | -.30800 | -.27600 | .01520 | 16.14730 | .03138 | .01556 |
| .900 | 1.710 | .95000 | -2.48000 | .02000 | .03173 | -.30800 | -.27600 | .01650 | 16.16700 | .03136 | .01556 |
| .900 | 2.220 | 1.66000 | -2.77000 | .00000 | .03273 | -.30400 | -.27700 | .01760 | 16.18180 | .03090 | .01564 |
| .901 | 2.780 | 1.93000 | -3.63000 | .00000 | .03266 | -.30600 | -.28100 | .01660 | 16.18270 | .03113 | .01584 |
| .901 | 3.710 | 3.01000 | -4.41000 | .02000 | .03311 | -.30900 | -.28300 | .01880 | 16.20210 | .03147 | .01586 |
| .901 | 4.330 | 3.50000 | -5.15000 | .00000 | .03337 | -.30800 | -.28300 | .01740 | 16.21120 | .03137 | .01596 |
| .901 | 4.780 | 4.22000 | -5.34000 | .00000 | .03485 | -.30500 | -.28100 | .01520 | 16.22090 | .03107 | .01586 |
| .901 | 5.650 | 5.03000 | -6.26000 | .01000 | .03575 | -.30500 | -.28300 | .01640 | 16.23520 | .03108 | .01595 |
| .900 | 6.530 | 5.97000 | -7.09000 | .01000 | .03654 | -.30300 | -.28000 | .01560 | 16.24200 | .03084 | .01582 |
| .901 | 6.860 | 6.16000 | -7.56000 | .00000 | .03717 | -.31100 | -.28600 | .01430 | 16.24070 | .03166 | .01613 |
| .900 | 7.570 | 6.82000 | -8.32000 | .00000 | .03934 | -.30600 | -.28400 | .01670 | 16.25190 | .03113 | .01600 |
| .901 | 8.240 | 7.42000 | -9.05000 | .01000 | .04135 | -.30600 | -.28200 | .01520 | 16.27140 | .03112 | .01591 |
| .900 | 8.800 | 7.92000 | -9.68000 | .00000 | .04219 | -.31100 | -.28300 | .01590 | 16.27910 | .03162 | .01598 |
| .900 | 9.340 | 8.18000 | -10.49000 | .00000 | .04327 | -.31300 | -.28800 | .01480 | 16.27940 | .03186 | .01623 |
| .901 | 9.810 | 8.54000 | -11.09000 | .00000 | .04488 | -.31300 | -.28700 | .01700 | 16.30220 | .03184 | .01619 |
| .901 | 10.710 | 10.34000 | -11.07000 | .00000 | .04545 | -.31600 | -.29000 | .01580 | 16.31550 | .03212 | .01635 |
| .901 | GRADIENT | .95559 | -1.04485 | -.00126 | -.00001 | .00143 | .00059 | .00030 | -.00379 | -.00014 | -.00003 |

(SUK122) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|--------|----------|--------|--------|
| .597 | -5.020 | -4.91000 | 5.12000 | -.01000 | -.02590 | -.27100 | -.25400 | .01090 | 16.15280 | .02758 | .01431 |
| .597 | -4.470 | -4.50000 | 4.44000 | -.01000 | -.02650 | -.27000 | -.25200 | .01050 | 16.14500 | .02746 | .01424 |
| .597 | -3.700 | -3.62000 | 3.78000 | -.01000 | -.02720 | -.27000 | -.25300 | .01540 | 16.15540 | .02750 | .01428 |
| .597 | -2.670 | -2.48000 | 2.85000 | -.01000 | -.02716 | -.27000 | -.25400 | .01520 | 16.14660 | .02751 | .01431 |
| .597 | -1.920 | -2.02000 | 1.81000 | .00000 | -.02791 | -.27200 | -.25300 | .01600 | 16.14060 | .02771 | .01428 |
| .596 | -1.070 | -1.06000 | 1.07000 | .00000 | -.02952 | -.27400 | -.25600 | .01650 | 16.14050 | .02792 | .01442 |
| .596 | .340 | .56000 | -.12000 | .00000 | -.02926 | -.27400 | -.25700 | .01460 | 16.15350 | .02792 | .01450 |
| .597 | 1.040 | 1.54000 | -.55000 | .00000 | -.02950 | -.27400 | -.25700 | .01390 | 16.16740 | .02788 | .01450 |
| .597 | 1.970 | 2.31000 | -1.64000 | .00000 | -.02894 | -.27300 | -.25800 | .01630 | 16.16740 | .02780 | .01456 |
| .597 | 3.150 | 3.58000 | -2.72000 | .00000 | -.02789 | -.27300 | -.25700 | .01610 | 16.17880 | .02783 | .01448 |
| .597 | 4.040 | 4.34000 | -3.73000 | .00000 | -.02751 | -.27200 | -.25600 | .01800 | 16.16970 | .02767 | .01444 |
| .596 | 4.890 | 5.34000 | -4.44000 | .00000 | -.02725 | -.27200 | -.25600 | .01800 | 16.16790 | .02770 | .01446 |
| .597 | 5.460 | 6.23000 | -4.70000 | .00000 | -.02438 | -.27000 | -.25500 | .01740 | 16.19400 | .02751 | .01437 |
| .597 | 6.310 | 6.61000 | -6.02000 | .00000 | -.02556 | -.27100 | -.25700 | .01930 | 16.18060 | .02761 | .01447 |
| .597 | 6.830 | 7.14000 | -6.51000 | .01000 | -.02423 | -.26900 | -.25500 | .02020 | 16.17920 | .02736 | .01429 |
| .597 | 7.890 | 8.34000 | -7.45000 | .00000 | -.02348 | -.26800 | -.25300 | .01840 | 16.16360 | .02724 | .01423 |
| .597 | 8.440 | 8.76000 | -8.13000 | .01000 | -.02133 | -.26600 | -.25200 | .01930 | 16.16590 | .02711 | .01422 |
| .597 | 9.370 | 9.87000 | -8.88000 | .01000 | -.02012 | -.26800 | -.25200 | .02170 | 16.17380 | .02726 | .01414 |
| .596 | 9.960 | 10.05000 | -9.87000 | .01000 | -.01894 | -.26600 | -.25100 | .02020 | 16.14890 | .02709 | .01414 |
| | GRADIENT | 1.05163 | -.94764 | .00112 | -.00008 | -.00027 | -.00049 | .00045 | .00334 | .00003 | .00003 |

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 85/ 0 RN/L = 4.44 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|---------|----------|--------|--------|
| .896 | -5.040 | -5.02000 | 5.06000 | .00000 | .02656 | -.39200 | -.38600 | .03230 | 16.06630 | .03993 | .02175 |
| .896 | -3.910 | -3.82000 | 4.00000 | .01000 | .02599 | -.37200 | -.36600 | .02930 | 16.08070 | .03784 | .02064 |
| .896 | -3.470 | -3.50000 | 3.43000 | .00000 | .02471 | -.38000 | -.37400 | .03050 | 16.03710 | .03864 | .02108 |
| .896 | -2.370 | -2.47000 | 2.17000 | .00000 | .02418 | -.37500 | -.36900 | .02360 | 16.05880 | .03818 | .02078 |
| .897 | -1.780 | -2.14000 | 1.42000 | .00000 | .02299 | -.37200 | -.36500 | .02360 | 16.05260 | .03785 | .02060 |
| .896 | -1.560 | -2.48000 | .64000 | .00000 | .02274 | -.37000 | -.36500 | .02140 | 16.04540 | .03761 | .02056 |
| .896 | -.240 | -.59000 | -.11000 | .00000 | .02212 | -.37000 | -.36400 | .02220 | 16.04970 | .03767 | .02052 |
| .896 | .570 | .31000 | -.82000 | .00000 | .02268 | -.37000 | -.36300 | .02110 | 16.06750 | .03768 | .02045 |
| .896 | 1.220 | .32000 | -.162000 | .00000 | .02220 | -.36900 | -.36300 | .02430 | 16.04440 | .03750 | .02048 |
| .896 | 2.120 | 1.89000 | -2.35000 | .00000 | .02305 | -.37400 | -.36700 | .02430 | 16.03930 | .03801 | .02072 |
| .896 | 2.700 | 2.45000 | -2.95000 | .00000 | .02343 | -.37600 | -.37000 | .02060 | 16.04310 | .03827 | .02087 |
| .896 | 3.590 | 3.38000 | -3.80000 | .00000 | .02343 | -.37900 | -.37200 | .02730 | 16.03510 | .03857 | .02099 |
| .896 | 4.360 | 4.23000 | -4.48000 | .01000 | .02453 | -.38300 | -.37500 | .02120 | 16.05170 | .03893 | .02113 |
| .897 | 4.950 | 5.14000 | -4.76000 | .01000 | .02554 | -.38600 | -.37700 | .02010 | 16.04850 | .03926 | .02128 |
| .896 | 6.190 | 6.26000 | -6.11000 | .01000 | .02643 | -.38900 | -.38000 | .02140 | 16.05420 | .03958 | .02144 |
| .896 | 6.840 | 6.82000 | -6.85000 | .01000 | .02735 | -.39200 | -.38200 | .03120 | 16.06690 | .03988 | .02157 |
| .896 | 7.410 | 7.22000 | -7.60000 | .01000 | .02893 | -.39500 | -.38700 | .02350 | 16.06070 | .04019 | .02185 |
| .896 | 8.370 | 8.31000 | -8.42000 | .01000 | .03052 | -.39900 | -.39100 | .02290 | 16.05100 | .04061 | .02202 |
| .897 | 8.820 | 8.54000 | -9.10000 | .01000 | .03162 | -.40500 | -.39700 | .03450 | 16.04190 | .04116 | .02239 |
| .897 | 9.860 | 9.84000 | -9.92000 | .02000 | .03303 | -.40700 | -.40000 | .02350 | 16.03390 | .04138 | .02255 |
| | GRADIENT | 1.01446 | -.98479 | -.00128 | -.00003 | -.00097 | -.00073 | -.00062 | -.00177 | .00010 | .00004 |

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK122) (26 FEB 76)

REFERENCE DATA

SREF = 2590.0000 SQ.FI. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 179/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|--------|----------|-----------|---------|---------|---------|---------|--------|----------|--------|--------|
| .949 | -5.080 | -5.42000 | 4.74000 | .00000 | .03503 | -4.2200 | -37000 | .01440 | 16.42060 | .04296 | .02084 |
| .947 | -4.140 | -4.54000 | 3.73000 | .00000 | .03380 | -4.1300 | -36100 | .01700 | 16.40540 | .04200 | .02038 |
| .947 | -3.470 | -3.82000 | 3.11000 | .00000 | .03258 | -4.1000 | -35800 | .01510 | 16.39730 | .04170 | .02018 |
| .948 | -2.540 | -3.15000 | 1.93000 | .00000 | .03277 | -4.1200 | -35000 | .01450 | 16.39220 | .04192 | .02032 |
| .948 | -1.840 | -2.26000 | 1.42000 | .00000 | .03219 | -4.0500 | -35500 | .01360 | 16.35330 | .04131 | .02004 |
| .947 | -1.190 | -1.90000 | .48000 | .00000 | .03196 | -4.0400 | -35400 | .01520 | 16.34880 | .04110 | .01997 |
| .948 | -.400 | -1.07000 | -.27000 | .01000 | .03171 | -4.0700 | -35500 | .01990 | 16.33450 | .04139 | .02002 |
| .948 | .630 | -.01000 | -1.24000 | .00000 | .03196 | -4.0900 | -35800 | .02110 | 16.35200 | .04163 | .02018 |
| .947 | 1.240 | .79000 | -1.69000 | .00000 | .03169 | -4.0800 | -35600 | .01850 | 16.33440 | .04154 | .02006 |
| .947 | 2.050 | 1.43000 | -2.67000 | .00000 | .03115 | -4.1100 | -35800 | .01760 | 16.33290 | .04185 | .02021 |
| .947 | 2.970 | 2.06000 | -3.89000 | .00000 | .03172 | -4.1100 | -35900 | .01770 | 16.33750 | .04183 | .02025 |
| .948 | 3.790 | 3.24000 | -4.34000 | .00000 | .03249 | -4.1500 | -36300 | .01740 | 16.37810 | .04224 | .02046 |
| .948 | 4.550 | 4.15000 | -4.95000 | .00000 | .03379 | -4.1800 | -36600 | .02070 | 16.37740 | .04252 | .02064 |
| .948 | 5.620 | 5.06000 | -6.17000 | .00000 | .03456 | -4.2500 | -37100 | .01900 | 16.40600 | .04322 | .02091 |
| .947 | 6.470 | 6.21000 | -6.73000 | .00000 | .03601 | -4.2400 | -37300 | .01830 | 16.36250 | .04312 | .02101 |
| .946 | 7.060 | 6.63000 | -7.49000 | .00000 | .03851 | -4.2400 | -37200 | .02040 | 16.37820 | .04318 | .02098 |
| .946 | 7.890 | 7.45000 | -8.33000 | .00000 | .04018 | -4.3000 | -37800 | .02590 | 16.40580 | .04389 | .02130 |
| .948 | 8.540 | 8.02000 | -9.05000 | .00000 | .04209 | -4.3000 | -37600 | .01770 | 16.40040 | .04376 | .02119 |
| .946 | 9.410 | 8.91000 | -9.91000 | .00000 | .04258 | -4.3300 | -38400 | .01600 | 16.38970 | .04375 | .02164 |
| .947 | 9.980 | 9.90000 | -10.05000 | -.02000 | .04258 | -4.3300 | -38800 | .01850 | 16.39000 | .04401 | .02198 |
| | | .98231 | -1.01707 | -.00006 | -.00006 | -.00061 | -.00054 | .00051 | -.00418 | .00007 | .00003 |

GRADIENT

(SUK122) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 271/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00
 RN/L = 4.500 ELEVON = .000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

REFERENCE DATA

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|----------|---------|---------|---------|---------|--------|----------|---------|---------|
| .977 | -5.250 | -5.60000 | 4.90000 | .00000 | .04677 | -.48200 | -.43700 | .01480 | 16.55620 | .04901 | .02465 |
| .977 | -4.660 | -4.89000 | 4.43000 | .00000 | .04564 | -.48100 | -.43800 | .01320 | 16.55620 | .04889 | .02471 |
| .978 | -3.820 | -3.95000 | 3.70000 | .00000 | .04429 | -.47900 | -.43700 | .01330 | 16.53180 | .04873 | .02466 |
| .978 | -3.150 | -3.36000 | 2.93000 | .00000 | .04429 | -.47500 | -.43500 | .01930 | 16.51910 | .04835 | .02452 |
| .977 | -2.060 | -2.43000 | 1.68000 | .00000 | .04375 | -.47000 | -.42900 | .01560 | 16.51520 | .04784 | .02418 |
| .976 | -1.530 | -1.94000 | 1.12000 | .00000 | .04251 | -.46800 | -.42600 | .01410 | 16.49100 | .04763 | .02404 |
| .977 | -.540 | -.77000 | .31000 | .01000 | .04247 | -.47200 | -.43000 | .01480 | 16.49050 | .04800 | .02422 |
| .977 | .540 | .29000 | -.79000 | .00000 | .04352 | -.47000 | -.42500 | .01770 | 16.50110 | .04780 | .02395 |
| .978 | 1.270 | .39000 | -1.64000 | .00000 | .04291 | -.47300 | -.43000 | .01630 | 16.50400 | .04812 | .02422 |
| .977 | 2.270 | 1.87000 | -2.67000 | .00000 | .04228 | -.47400 | -.42600 | .01720 | 16.49590 | .04818 | .02404 |
| .978 | 3.390 | 2.90000 | -3.80000 | .00000 | .04294 | -.47500 | -.42500 | .01410 | 16.51760 | .04827 | .02397 |
| .978 | 3.950 | 3.57000 | -4.33000 | .00000 | .04464 | -.47600 | -.42600 | .01560 | 16.54440 | .04842 | .02403 |
| .977 | 4.340 | 4.11000 | -4.57000 | .00000 | .04399 | -.47600 | -.42500 | .01560 | 16.53550 | .04844 | .02397 |
| .977 | 5.500 | 5.14000 | -5.86000 | .00000 | .04517 | -.47600 | -.42600 | .01480 | 16.55010 | .04843 | .02400 |
| .979 | 6.170 | 6.11000 | -6.23000 | .00000 | .04709 | -.48000 | -.43200 | .01720 | 16.56280 | .04884 | .02411 |
| .978 | 6.760 | 6.76000 | -6.76000 | .00000 | .04867 | -.48200 | -.43100 | .01630 | 16.59440 | .04903 | .02438 |
| .976 | 7.450 | 7.43000 | -7.47000 | .00000 | .04787 | -.48400 | -.43100 | .01410 | 16.56760 | .04922 | .02432 |
| .977 | 8.220 | 8.14000 | -8.29000 | .00000 | .04939 | -.49100 | -.43900 | .01560 | 16.56550 | .04997 | .02473 |
| .979 | 9.070 | 9.00000 | -9.13000 | .01000 | .05289 | -.49500 | -.44500 | .01560 | 16.59320 | .05036 | .02508 |
| .979 | 9.980 | 10.04000 | -9.92000 | .00000 | .05436 | -.49700 | -.45000 | .01390 | 16.60100 | .05056 | .02536 |
| GRADIENT | .98457 | | -1.01550 | -.00005 | -.00012 | .00019 | .00130 | .00011 | -.00066 | -.00002 | -.00007 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 221/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

| MACH | AIRLON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|--------|---------|----------|--------|---------|---------|---------|---------|----------|---------|---------|
| 1.198 | -5.000 | -5.0300 | 4.9600 | .0100 | .07148 | -.42100 | -.40400 | .02200 | 16.78290 | .04284 | .02275 |
| 1.197 | -4.650 | -4.7900 | 4.5100 | .0000 | .07055 | -.42300 | -.40500 | .01970 | 16.76620 | .04299 | .02281 |
| 1.197 | -4.240 | -4.1700 | 4.3200 | .0000 | .07037 | -.42300 | -.40400 | .02510 | 16.78660 | .04301 | .02280 |
| 1.199 | -3.500 | -3.4400 | 3.5600 | .0000 | .07000 | -.42000 | -.40200 | .02110 | 16.76370 | .04271 | .02266 |
| 1.197 | -2.660 | -2.5400 | 2.7700 | .0000 | .06920 | -.42100 | -.40200 | .01810 | 16.74810 | .04286 | .02268 |
| 1.197 | -1.930 | -2.0400 | 1.8200 | .0000 | .06921 | -.42000 | -.40300 | .01720 | 16.75230 | .04270 | .02274 |
| 1.198 | -1.200 | -1.4400 | .9500 | .0000 | .06943 | -.41600 | -.40100 | .01460 | 16.75520 | .04229 | .02263 |
| 1.198 | -.400 | -.4000 | .4100 | .0100 | .06922 | -.41300 | -.40100 | .01640 | 16.74260 | .04204 | .02261 |
| 1.197 | .310 | .4200 | -.1900 | .0000 | .06951 | -.41200 | -.40000 | .01950 | 16.74670 | .04193 | .02255 |
| 1.197 | .950 | .9400 | -.9500 | .0000 | .06905 | -.41000 | -.39800 | .01320 | 16.74900 | .04189 | .02246 |
| 1.198 | 1.920 | 1.8900 | -1.9500 | .0000 | .06959 | -.41000 | -.39500 | .01560 | 16.74470 | .04172 | .02234 |
| 1.198 | 2.330 | 2.3200 | -2.3400 | .0100 | .06974 | -.41100 | -.39600 | .01470 | 16.73980 | .04179 | .02234 |
| 1.197 | 3.420 | 3.3100 | -3.5300 | .0000 | .07009 | -.41100 | -.39500 | .01410 | 16.74860 | .04178 | .02228 |
| 1.197 | 4.070 | 3.9500 | -4.2000 | .0100 | .07024 | -.41000 | -.39500 | .01250 | 16.74890 | .04178 | .02229 |
| 1.198 | 4.600 | 4.6200 | -4.5800 | .0000 | .07142 | -.41000 | -.39500 | .01470 | 16.77500 | .04171 | .02245 |
| 1.197 | 5.500 | 5.8100 | -5.1900 | .0100 | .07163 | -.41300 | -.39800 | .01780 | 16.76530 | .04203 | .02245 |
| 1.196 | 6.380 | 6.5100 | -6.2500 | .0000 | .07245 | -.41800 | -.40100 | .01950 | 16.78460 | .04244 | .02267 |
| 1.198 | 6.870 | 6.9400 | -6.8000 | .0000 | .07327 | -.41900 | -.40200 | .01650 | 16.78290 | .04253 | .02268 |
| 1.198 | 7.600 | 7.5900 | -7.6100 | .0100 | .07432 | -.42300 | -.40700 | .01310 | 16.81760 | .04305 | .02295 |
| 1.197 | 8.120 | 8.3500 | -7.8900 | .0100 | .07541 | -.42400 | -.40800 | .01330 | 16.80220 | .04313 | .02302 |
| 1.198 | 8.850 | 8.9800 | -8.7100 | .0000 | .07683 | -.42600 | -.41100 | .01650 | 16.82230 | .04329 | .02317 |
| 1.198 | 9.800 | 9.9200 | -9.5900 | .0000 | .07664 | -.42900 | -.41300 | .01860 | 16.80160 | .04360 | .02330 |
| 1.197 | 10.040 | 10.0500 | -10.0400 | .0000 | .07664 | -.42900 | -.41300 | .01860 | 16.80160 | .04360 | .02330 |
| 1.197 | .99644 | .99644 | -1.00352 | .00018 | -.00001 | .00148 | .00110 | -.00092 | -.00229 | -.00015 | -.00006 |

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK124) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 5.000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 102/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|--------|---------|---------|---------|--------|-----------|--------|--------|
| .896 | -4.350 | .01000 | 9.92000 | .00000 | .04595 | -.23900 | -.22800 | .00790 | 6.19160 | .02435 | .01285 |
| .897 | -4.390 | .48000 | 9.28000 | .00000 | .04605 | -.23800 | -.22900 | .00790 | 5.79880 | .02427 | .01293 |
| .896 | -3.600 | 1.21000 | 8.42000 | .00000 | .04470 | -.24000 | -.23100 | .00910 | 10.59530 | .02445 | .01302 |
| .896 | -2.940 | 1.95000 | 7.84000 | .00000 | .04407 | -.24000 | -.23100 | .01210 | 11.48020 | .02445 | .01305 |
| .897 | -2.120 | 2.97000 | 7.21000 | .00000 | .04398 | -.24000 | -.23200 | .01220 | 13.33920 | .02442 | .01310 |
| .896 | -1.310 | 3.54000 | 6.18000 | .00000 | .04321 | -.23900 | -.23100 | .01100 | 14.91490 | .02432 | .01303 |
| .896 | .1140 | 4.74000 | 5.03000 | .00000 | .04323 | -.23900 | -.23000 | .01100 | 15.36160 | .02434 | .01300 |
| .896 | .780 | 5.82000 | 4.26000 | .00000 | .04341 | -.23800 | -.23100 | .00970 | 15.56240 | .02426 | .01301 |
| .896 | 1.460 | 6.40000 | 3.46000 | .00000 | .04347 | -.23800 | -.23100 | .01020 | 14.93600 | .02422 | .01305 |
| .896 | 2.420 | 7.36000 | 2.50000 | .00000 | .04397 | -.24000 | -.23300 | .01130 | 14.92620 | .02447 | .01317 |
| .896 | 3.280 | 8.04000 | 1.47000 | .00000 | .04421 | -.24200 | -.23400 | .01100 | 14.61920 | .02462 | .01322 |
| .896 | 3.860 | 8.47000 | .75000 | .00000 | .04488 | -.24300 | -.23600 | .01110 | 13.21780 | .02476 | .01333 |
| .896 | 4.450 | 9.18000 | .27000 | .00000 | .04519 | -.24300 | -.23800 | .01180 | 10.52070 | .02474 | .01341 |
| .896 | 5.470 | 10.46000 | -.48000 | .00000 | .04506 | -.24600 | -.24000 | .01220 | 11.11630 | .02503 | .01355 |
| .896 | 6.390 | 11.37000 | -1.41000 | .01000 | .04723 | -.25000 | -.24400 | .01420 | 8.29110 | .02541 | .01375 |
| .897 | 7.220 | 12.41000 | -2.03000 | .01000 | .04894 | -.25200 | -.24600 | .01560 | 8.87640 | .02562 | .01389 |
| .896 | 7.860 | 13.08000 | -2.64000 | .01000 | .05018 | -.25300 | -.24800 | .01440 | 6.20480 | .02572 | .01399 |
| .896 | 8.730 | 13.86000 | -3.59000 | .01000 | .05142 | -.25700 | -.25200 | .01410 | -10.58960 | .02614 | .01420 |
| .896 | 9.160 | 13.77000 | -4.56000 | .01000 | .05359 | -.25900 | -.25400 | .01420 | 9.19920 | .02636 | .01436 |
| .897 | 9.940 | 14.97000 | -4.90000 | .02000 | .05547 | -.26000 | -.25600 | .01410 | -.00880 | .02650 | .01444 |
| | GRADIENT | .98160 | -1.02145 | .00000 | -.00009 | -.30034 | -.00072 | .00025 | .62172 | .00003 | .00004 |

(SUK125) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00
 BETA = 1076.7000 IN. XO
 GRIT = .0000 IN. YO
 RUDDER = 375.0000 IN. ZO

PARAMETRIC DATA

ELEVON = 4.500
 ALPHA = .000
 SPDBRK = 1.000
 BDFLAP = .000

| MACH | AIRLON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|--------|---------|---------|---------|--------|----------|--------|--------|
| .896 | -4.960 | .01000 | 9.95000 | .00000 | .04532 | -.23600 | -.22100 | .00620 | 16.51980 | .02404 | .01245 |
| .896 | -4.330 | .65000 | 9.33000 | .00000 | .04442 | -.23600 | -.22200 | .00710 | 16.51900 | .02402 | .01253 |
| .896 | -3.430 | 1.64000 | 8.52000 | .00000 | .04359 | -.23600 | -.22200 | .00860 | 16.54240 | .02400 | .01252 |
| .896 | -2.820 | 2.23000 | 7.88000 | .00000 | .04234 | -.23700 | -.22200 | .01080 | 16.53810 | .02414 | .01256 |
| .897 | -2.030 | 3.19000 | 7.27000 | .00000 | .04242 | -.23900 | -.22400 | .01170 | 16.58530 | .02432 | .01263 |
| .896 | -1.020 | 4.04000 | 6.09000 | .00000 | .04140 | -.23700 | -.22400 | .01280 | 16.57060 | .02418 | .01264 |
| .896 | .040 | 5.22000 | 5.13000 | .00000 | .04087 | -.23700 | -.22400 | .01360 | 16.57540 | .02409 | .01262 |
| .896 | .890 | 6.08000 | 4.30000 | .00000 | .04085 | -.23600 | -.22400 | .01440 | 16.55590 | .02399 | .01263 |
| .897 | 1.520 | 6.53000 | 3.49000 | .00000 | .04184 | -.23600 | -.22600 | .01470 | 16.59710 | .02407 | .01273 |
| .896 | 2.100 | 6.96000 | 2.74000 | .01000 | .04204 | -.23700 | -.22700 | .01300 | 16.56760 | .02419 | .01279 |
| .896 | 3.260 | 8.15000 | 1.82000 | .01000 | .04295 | -.23700 | -.22700 | .01480 | 16.57090 | .02413 | .01279 |
| .896 | 3.660 | 8.28000 | 1.95000 | .01000 | .04386 | -.23800 | -.22800 | .01380 | 16.58750 | .02418 | .01288 |
| .896 | 4.320 | 8.99000 | 1.34000 | .01000 | .04469 | -.24000 | -.23100 | .01300 | 16.60510 | .02441 | .01302 |
| .896 | 5.470 | 10.48000 | -.46000 | .01000 | .04524 | -.24300 | -.23300 | .01410 | 16.59130 | .02469 | .01314 |
| .896 | 6.210 | 11.15000 | -1.27000 | .01000 | .04613 | -.24400 | -.23400 | .01280 | 16.60500 | .02479 | .01314 |
| .896 | 7.040 | 12.09000 | -1.98000 | .01000 | .04722 | -.24500 | -.23600 | .01200 | 16.64360 | .02490 | .01330 |
| .897 | 7.640 | 12.70000 | -2.58000 | .01000 | .04916 | -.24500 | -.23800 | .01280 | 16.64500 | .02494 | .01345 |
| .895 | 8.510 | 13.63000 | -3.60000 | .01000 | .05058 | -.24500 | -.24000 | .01150 | 16.68820 | .02495 | .01353 |
| .895 | 9.050 | 13.54000 | -4.56000 | .02000 | .05201 | -.24800 | -.24300 | .01330 | 16.68770 | .02522 | .01368 |
| .895 | 9.890 | 14.87000 | -4.90000 | .02000 | .05425 | -.25200 | -.24600 | .01420 | 16.72430 | .02562 | .01389 |
| .897 | GRADIENT | .96622 | -1.03785 | .00121 | -.00009 | -.00022 | -.00087 | .00079 | .00721 | .00002 | .00005 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 5.000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 104/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|--------|---------|---------|---------|--------|----------|--------|--------|
| .896 | -4.970 | .00000 | 9.96000 | .00000 | .03995 | -.25800 | -.23200 | .00710 | 16.52660 | .02630 | .01308 |
| .897 | -4.390 | .48000 | 9.28000 | .00000 | .03971 | -.25700 | -.23200 | .00780 | 16.51360 | .02612 | .01309 |
| .896 | -3.400 | 1.41000 | 8.22000 | .00000 | .03887 | -.25300 | -.23100 | .01490 | 16.50350 | .02574 | .01301 |
| .896 | -2.860 | 2.08000 | 7.80000 | .00000 | .03811 | -.25100 | -.23000 | .01460 | 16.50450 | .02555 | .01300 |
| .897 | -2.080 | 3.05000 | 7.22000 | .00000 | .03808 | -.24800 | -.23000 | .01260 | 16.49960 | .02524 | .01298 |
| .896 | -1.540 | 3.58000 | 6.66000 | .00000 | .03744 | -.24700 | -.23100 | .01310 | 16.50440 | .02515 | .01302 |
| .896 | -.860 | 4.08000 | 5.80000 | .00000 | .03719 | -.24800 | -.23100 | .01410 | 16.49270 | .02522 | .01305 |
| .896 | .280 | 5.14000 | 4.57000 | .00000 | .03687 | -.24700 | -.23200 | .01990 | 16.50660 | .02518 | .01307 |
| .896 | 1.020 | 6.08000 | 3.00000 | .00000 | .03678 | -.24900 | -.23400 | .01520 | 16.50300 | .02534 | .01323 |
| .896 | 1.740 | 6.64000 | 1.50000 | .00000 | .03757 | -.25200 | -.23700 | .01570 | 16.52400 | .02562 | .01337 |
| .896 | 2.400 | 7.04000 | .00000 | .01000 | .03825 | -.25300 | -.23800 | .02010 | 16.53230 | .02576 | .01344 |
| .896 | 3.310 | 8.20000 | 1.58000 | .00000 | .03861 | -.25500 | -.24000 | .02000 | 16.50960 | .02606 | .01354 |
| .897 | 3.640 | 8.25000 | .96000 | .00000 | .03958 | -.25800 | -.24200 | .02060 | 16.52360 | .02627 | .01363 |
| .896 | 4.430 | 8.95000 | .08000 | .01000 | .04048 | -.25900 | -.24200 | .02030 | 16.53380 | .02639 | .01367 |
| .896 | 5.450 | 10.32000 | -.57000 | .00000 | .04133 | -.26300 | -.24400 | .02570 | 16.53660 | .02674 | .01378 |
| .896 | 6.320 | 11.06000 | -1.58000 | .01000 | .04277 | -.26400 | -.24400 | .02060 | 16.54530 | .02684 | .01379 |
| .896 | 7.030 | 12.05000 | -2.01000 | .01000 | .04447 | -.26500 | -.24600 | .02290 | 16.56930 | .02695 | .01390 |
| .896 | 7.870 | 12.77000 | -2.98000 | .01000 | .04618 | -.26800 | -.24800 | .01660 | 16.59350 | .02718 | .01399 |
| .896 | 8.930 | 13.77000 | -4.08000 | .01000 | .04774 | -.26900 | -.25000 | .01710 | 16.60220 | .02736 | .01412 |
| .896 | 9.130 | 13.66000 | -4.58000 | .01000 | .04968 | -.27100 | -.25400 | .01540 | 16.62590 | .02758 | .01431 |
| .896 | 9.940 | 14.90000 | -4.98000 | .01000 | .05095 | -.27300 | -.25400 | .01550 | 16.63120 | .02776 | .01433 |
| .896 | GRADIENT | .96601 | -1.03678 | .00059 | -.00001 | -.00027 | -.00126 | .00133 | .00175 | .00003 | .00007 |

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 5.000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPDSRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 105/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | A/LRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|----------|--------|---------|---------|---------|--------|----------|---------|---------|
| .895 | -4.860 | .12000 | 9.85000 | .00000 | .04046 | -.31000 | -.27400 | .30950 | 16.58550 | .3158 | .01547 |
| .896 | -4.410 | .25000 | 9.08000 | .00000 | .03997 | -.31100 | -.27400 | .01020 | 16.57310 | .3160 | .01546 |
| .897 | -3.670 | .73000 | 8.08000 | .00000 | .03937 | -.30900 | -.27300 | .01290 | 16.56220 | .3145 | .01541 |
| .896 | -2.870 | 1.78000 | 7.53000 | .00000 | .03891 | -.30400 | -.27000 | .01600 | 16.57380 | .3092 | .01522 |
| .895 | -2.210 | 2.30000 | 6.73000 | .00000 | .03802 | -.30100 | -.26800 | .01880 | 16.57140 | .3065 | .01512 |
| .895 | -1.250 | 3.31000 | 5.82000 | .00000 | .03747 | -.29800 | -.26700 | .01380 | 16.58130 | .3037 | .01507 |
| .896 | -.270 | 4.04000 | 4.60000 | .00000 | .03781 | -.29500 | -.26700 | .01660 | 16.58510 | .3004 | .01508 |
| .896 | .510 | 4.97000 | 3.95000 | .00000 | .03787 | -.29500 | -.26900 | .01470 | 16.58830 | .3005 | .01516 |
| .896 | 1.220 | 5.90000 | 3.44000 | .00000 | .03801 | -.29700 | -.26900 | .01600 | 16.58990 | .3025 | .01515 |
| .895 | 1.820 | 6.30000 | 2.65000 | .00000 | .03775 | -.29700 | -.26700 | .01790 | 16.58350 | .3026 | .01508 |
| .895 | 2.460 | 6.60000 | 1.67000 | .00000 | .03777 | -.30000 | -.26900 | .01720 | 16.57320 | .3055 | .01519 |
| .897 | 3.130 | 7.30000 | 1.04000 | .00000 | .03868 | -.30100 | -.27000 | .01690 | 16.57180 | .3058 | .01521 |
| .895 | 3.820 | 8.05000 | .41000 | .00000 | .03935 | -.30200 | -.27200 | .01740 | 16.60230 | .3069 | .01532 |
| .895 | 4.150 | 8.34000 | .02000 | .00000 | .03949 | -.30300 | -.27300 | .01870 | 16.58310 | .3086 | .01537 |
| .895 | 5.290 | 9.83000 | -.74000 | .00000 | .04059 | -.30600 | -.27700 | .03115 | 16.59790 | .3115 | .01561 |
| .896 | 6.370 | 10.94000 | -1.79000 | .00000 | .04178 | -.30900 | -.27900 | .01860 | 16.59670 | .3148 | .01573 |
| .896 | 7.040 | 11.86000 | -2.23000 | .00000 | .04388 | -.30800 | -.28200 | .01910 | 16.60310 | .3139 | .01590 |
| .895 | 8.140 | 12.86000 | -3.43000 | .00000 | .04560 | -.30800 | -.28500 | .01390 | 16.61250 | .3139 | .01607 |
| .895 | 9.120 | 13.94000 | -4.31000 | .01000 | .04591 | -.31200 | -.28800 | .01370 | 16.62770 | .3171 | .01625 |
| .896 | 9.990 | 14.95000 | -5.03000 | .00000 | .05101 | -.31300 | -.29200 | .01450 | 16.63150 | .3188 | .01648 |
| GRADIENT | | .34076 | -1.06203 | .00000 | -.00011 | .00101 | .00023 | .00067 | .00142 | -.00010 | -.00002 |

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

DATE 04 MAY 76

(SUK128) (26 FEB 76)

REFERENCE DATA
 SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0300 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA
 RN/L = 4.500 ELEVON = 5.000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|----------|--------|--------|---------|---------|--------|----------|---------|---------|
| .896 | -4.850 | .12000 | 9.82000 | .00000 | .03264 | -.36800 | -.34700 | .01460 | 16.48110 | .03742 | .01958 |
| .897 | -4.270 | .65000 | 9.21000 | .00000 | .03270 | -.35600 | -.34700 | .01300 | 16.49420 | .03723 | .01956 |
| .896 | -3.480 | 1.39000 | 8.36000 | .00000 | .03204 | -.36200 | -.34300 | .01530 | 16.48660 | .03679 | .01933 |
| .896 | -2.760 | 2.10000 | 7.62000 | .00000 | .03171 | -.35900 | -.34100 | .02060 | 16.49610 | .03653 | .01923 |
| .896 | -1.850 | 3.21000 | 6.52000 | .00000 | .03139 | -.35600 | -.34100 | .02030 | 16.49870 | .03523 | .01921 |
| .897 | -1.030 | 4.89000 | 5.96000 | .00000 | .03170 | -.35100 | -.33900 | .02420 | 16.50970 | .03571 | .01904 |
| .897 | .900 | 6.93000 | 4.73000 | .00000 | .03161 | -.34900 | -.33800 | .01890 | 16.50450 | .03548 | .01903 |
| .897 | 1.320 | 8.79000 | 4.13000 | .00000 | .03198 | -.34700 | -.33800 | .01670 | 16.51160 | .03547 | .01907 |
| .896 | 1.960 | 10.77000 | 3.63000 | .00000 | .03217 | -.34800 | -.33600 | .02030 | 16.51940 | .03544 | .01895 |
| .897 | 2.930 | 13.63000 | 2.83000 | .00000 | .03250 | -.34900 | -.33500 | .01860 | 16.52030 | .03551 | .01913 |
| .897 | 3.400 | 16.50000 | 1.77000 | .00000 | .03277 | -.35100 | -.33500 | .01780 | 16.51950 | .03551 | .01913 |
| .896 | 4.210 | 19.30000 | 1.11000 | .00000 | .03297 | -.35300 | -.34100 | .02200 | 16.51790 | .03574 | .01914 |
| .897 | 5.410 | 22.00000 | .52000 | .00000 | .03376 | -.35800 | -.34300 | .02110 | 16.50230 | .03590 | .01921 |
| .897 | 6.470 | 24.70000 | -.52000 | .00000 | .03497 | -.36400 | -.34900 | .02110 | 16.50990 | .03642 | .01937 |
| .897 | 7.280 | 27.40000 | -1.59000 | .00000 | .03628 | -.36700 | -.35100 | .02430 | 16.50990 | .03702 | .01968 |
| .897 | 8.130 | 30.10000 | -2.64000 | .00000 | .03778 | -.37100 | -.35600 | .01920 | 16.50540 | .03773 | .02009 |
| .896 | 8.760 | 32.80000 | -3.58000 | .00000 | .03878 | -.37700 | -.36100 | .02260 | 16.50660 | .03831 | .02038 |
| .897 | 9.560 | 35.50000 | -4.36000 | .00000 | .04047 | -.38200 | -.36700 | .02080 | 16.50060 | .03889 | .02068 |
| .896 | 9.880 | 38.20000 | -4.72000 | .00000 | .04144 | -.38800 | -.36400 | .02310 | 16.49820 | .03841 | .02053 |
| .897 | 10.090 | 40.90000 | -5.13000 | .00000 | .04177 | -.38100 | -.36800 | .02080 | 16.46580 | .03874 | .02073 |
| GRADIENT | | .96473 | -1.03876 | .00000 | .00004 | .00197 | .00079 | .00059 | .00354 | -.00020 | -.00004 |

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK129) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 117/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|----------|---------|---------|---------|---------|--------|----------|--------|--------|
| .597 | -5.020 | 5.06000 | 15.12000 | -.01000 | .03997 | -.23100 | -.21400 | .00620 | 19.24710 | .02352 | .01208 |
| .597 | -4.170 | 6.12000 | 14.47000 | -.01000 | .04007 | -.23000 | -.21700 | .00880 | 19.37130 | .02339 | .01223 |
| .597 | -3.260 | 6.69000 | 13.22000 | -.01000 | .03945 | -.22900 | -.21700 | .01090 | 19.34770 | .02327 | .01223 |
| .596 | -2.720 | 7.21000 | 12.67000 | -.01000 | .03919 | -.22600 | -.21500 | .01130 | 19.35710 | .02305 | .01215 |
| .597 | -1.790 | 8.32000 | 11.91000 | .00000 | .03877 | -.22600 | -.21500 | .01220 | 19.05960 | .02299 | .01213 |
| .597 | -.970 | 8.74000 | 10.70000 | .00000 | .03879 | -.22500 | -.21600 | .01220 | 19.21130 | .02285 | .01218 |
| .596 | -.200 | 9.87000 | 10.28000 | .00000 | .03840 | -.22400 | -.21600 | .01390 | 15.06230 | .02298 | .01232 |
| .596 | .640 | 10.71000 | 11.98000 | .00000 | .03862 | -.22600 | -.21800 | .01390 | 19.19980 | .02321 | .01251 |
| .597 | 1.730 | 11.98000 | 8.43000 | .00000 | .03871 | -.22600 | -.22200 | .01390 | 19.28560 | .02328 | .01260 |
| .597 | 2.490 | 12.80000 | 7.82000 | .00000 | .03902 | -.22900 | -.22400 | .01650 | 19.23990 | .02342 | .01264 |
| .597 | 3.460 | 13.96000 | 7.04000 | .00000 | .03921 | -.23000 | -.22400 | .01390 | 19.21370 | .02352 | .01267 |
| .596 | 4.070 | 14.20000 | 6.05000 | .00000 | .03991 | -.23100 | -.22500 | .01330 | 19.30360 | .02356 | .01269 |
| .596 | 5.030 | 15.10000 | 5.03000 | .00000 | .04009 | -.23100 | -.22500 | .00079 | 19.30360 | .02356 | .01269 |
| GRADIENT | | 1.03385 | -.96878 | .00128 | -.00002 | -.00027 | -.00119 | .00079 | -.01074 | .00003 | .00007 |

RUN NO. 86/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|--------|----------|----------|---------|---------|---------|---------|--------|----------|--------|--------|
| .896 | -5.140 | 4.99000 | 15.28000 | .00000 | .05152 | -.25400 | -.24100 | .00620 | 19.45800 | .02590 | .01362 |
| .897 | -4.630 | 5.31000 | 14.59000 | -.01000 | .05160 | -.25400 | -.24200 | .00620 | 19.48520 | .02587 | .01363 |
| .896 | -3.770 | 6.29000 | 13.84000 | .00000 | .05019 | -.25300 | -.24200 | .00610 | 19.29000 | .02572 | .01364 |
| .897 | -3.050 | 6.79000 | 12.89000 | .00000 | .04969 | -.25400 | -.24500 | .01140 | 19.47600 | .02586 | .01385 |
| .896 | -2.810 | 7.05000 | 12.68000 | .00000 | .04932 | -.25200 | -.24500 | .01060 | 19.51870 | .02565 | .01381 |
| .897 | -1.850 | 8.42000 | 12.14000 | .00000 | .04970 | -.24900 | -.24200 | .01060 | 19.55350 | .02534 | .01368 |
| .896 | -1.220 | 8.26000 | 10.70000 | .00000 | .04891 | -.24800 | -.24100 | .01230 | 19.50970 | .02524 | .01361 |
| .896 | -.250 | 9.80000 | 10.31000 | .00000 | .04903 | -.24300 | -.23600 | .01230 | 18.99060 | .02524 | .01331 |
| .896 | .650 | 10.74000 | 9.44000 | .00000 | .04875 | -.24700 | -.24100 | .01170 | 19.24430 | .02514 | .01358 |
| .896 | 1.720 | 11.75000 | 8.31000 | .00000 | .04821 | -.25300 | -.24400 | .01140 | 19.13840 | .02571 | .01379 |
| .896 | 2.420 | 12.76000 | 7.90000 | .00000 | .04856 | -.25700 | -.24700 | .01000 | 19.14320 | .02611 | .01393 |
| .896 | 3.220 | 13.64000 | 7.20000 | .00000 | .04902 | -.26200 | -.25200 | .01020 | 19.60560 | .02670 | .01423 |
| .896 | 4.000 | 14.22000 | 6.20000 | .00000 | .04967 | -.26300 | -.25300 | .01020 | 19.12650 | .02680 | .01426 |
| .897 | 4.380 | 14.24000 | 5.48000 | .00000 | .05056 | -.26400 | -.25300 | .01140 | 19.41270 | .02688 | .01426 |
| .896 | 4.970 | 14.97000 | 5.01000 | .01000 | .05091 | -.26500 | -.25400 | .01000 | 19.64270 | .02699 | .01436 |
| GRADIENT | | 1.02556 | -.97759 | .00070 | -.00005 | -.00138 | -.00125 | .00024 | -.00790 | .00014 | .00007 |

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

DATE 04 MAY 76

(SUK129) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

RN/L =
BETA =
GRIT =
RUDDER =
ELEVON = 10.000
ALPHA = .000
SPOBRK = 25.000
BOFLAP = .000

PARAMETRIC DATA

RUN NO. 184/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|--------|---------|---------|--------|----------|--------|---------|
| .947 | -5.020 | 5.08000 | 15.13000 | .00000 | .07093 | -.31300 | -.28000 | .00700 | 19.15850 | .03180 | .01580 |
| .947 | -3.660 | 6.37000 | 13.70000 | -.01000 | .06927 | -.31500 | -.28200 | .00840 | 19.52490 | .03210 | .01592 |
| .948 | -3.110 | 6.65000 | 12.89000 | .00000 | .07029 | -.31500 | -.27900 | .01120 | 19.39210 | .03207 | .01576 |
| .947 | -2.620 | 7.51000 | 12.75000 | .00000 | .06888 | -.31200 | -.27700 | .01140 | 19.57580 | .03172 | .01563 |
| .946 | -1.770 | 8.14000 | 11.69000 | .00000 | .06788 | -.30900 | -.27500 | .01210 | 19.72530 | .03146 | .01543 |
| .947 | -.260 | 8.74000 | 10.91000 | .00000 | .06718 | -.31400 | -.27800 | .01300 | 19.56560 | .03199 | .01563 |
| .948 | .450 | 10.59000 | 10.34000 | .00000 | .06767 | -.31700 | -.28000 | .01430 | 19.16500 | .03230 | .01582 |
| .946 | 1.240 | 11.10000 | 9.68000 | .01000 | .06801 | -.31600 | -.28000 | .01280 | 19.41630 | .03213 | .01577 |
| .946 | 1.980 | 12.14000 | 8.60000 | .01000 | .06733 | -.31400 | -.27800 | .01210 | 19.45220 | .03198 | .01566 |
| .946 | 2.880 | 12.95000 | 8.17000 | .01000 | .06599 | -.31900 | -.28000 | .01300 | 19.82780 | .03250 | .01580 |
| .948 | 4.020 | 14.18000 | 7.18000 | .00000 | .06721 | -.32100 | -.27800 | .01340 | 19.72370 | .03265 | .01567 |
| .947 | 4.640 | 14.37000 | 6.13000 | .01000 | .06902 | -.31800 | -.27400 | .01270 | 19.97430 | .03233 | .01543 |
| .948 | 4.940 | 15.03000 | 5.08000 | .01000 | .07015 | -.31900 | -.27500 | .01280 | 19.50520 | .03248 | .01549 |
| .948 | GRADIENT | 1.00873 | -.99449 | .00164 | .00007 | -.00090 | -.27700 | .01050 | 19.45620 | .03264 | .01561 |
| | | | | | | | .00038 | .00019 | .01995 | .00009 | -.00002 |

RUN NO. 272/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|--------|---------|---------|---------|--------|----------|---------|---------|
| .976 | -5.060 | 4.98000 | 15.10000 | .00000 | .08244 | -.37800 | -.33800 | .00620 | 19.61000 | .03942 | .01908 |
| .976 | -4.770 | 5.28000 | 14.82000 | .00000 | .08192 | -.37700 | -.33700 | .00790 | 19.22080 | .03832 | .01899 |
| .977 | -3.960 | 5.87000 | 13.81000 | .00000 | .08134 | -.37600 | -.34000 | .00950 | 19.54020 | .03821 | .01918 |
| .978 | -3.090 | 6.46000 | 12.66000 | .00000 | .08057 | -.37600 | -.33900 | .01100 | 19.21230 | .03823 | .01907 |
| .975 | -1.660 | 7.79000 | 11.11000 | .00000 | .07877 | -.36700 | -.33500 | .01160 | 19.07260 | .03734 | .01864 |
| .976 | -.920 | 8.57000 | 10.42000 | .00000 | .07893 | -.36700 | -.32800 | .01240 | 19.51780 | .03734 | .01852 |
| .977 | -.100 | 9.61000 | 9.82000 | .00000 | .07800 | -.35900 | -.33000 | .01320 | 19.44150 | .03754 | .01864 |
| .977 | .840 | 10.49000 | 8.79000 | .00000 | .07920 | -.37000 | -.33000 | .01320 | 19.32900 | .03760 | .01861 |
| .977 | 1.660 | 11.10000 | 7.79000 | .00000 | .07843 | -.37000 | -.33000 | .01310 | 19.32900 | .03760 | .01862 |
| .978 | 2.350 | 12.30000 | 7.59000 | .00000 | .07941 | -.37300 | -.33000 | .01320 | 19.69800 | .03798 | .01860 |
| .978 | 3.020 | 12.99000 | 6.93000 | .00000 | .08053 | -.37000 | -.33000 | .01170 | 19.54380 | .03759 | .01834 |
| .978 | 4.070 | 14.14000 | 6.00000 | .00000 | .08040 | -.37100 | -.32500 | .01230 | 19.30770 | .03777 | .01812 |
| .977 | 4.550 | 14.23000 | 5.13000 | .01000 | .08120 | -.37800 | -.32100 | .01170 | 19.26530 | .03777 | .01861 |
| .977 | 4.900 | 14.87000 | 5.06000 | .01000 | .08086 | -.37400 | -.32800 | .01080 | 19.37700 | .03808 | .01852 |
| .977 | GRADIENT | 1.01710 | -.98526 | .00066 | -.00003 | .00012 | .00127 | .00027 | .01126 | -.00001 | -.00007 |

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PAGE 371
(SUK129) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
BETA = .000 ALPHA = .000
GRIT = 1.000 SPDBRK = 25.000
RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 258/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALLRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|---------|----------|----------|---------|--------|---------|---------|--------|----------|---------|---------|
| 1.047 | -5.010 | 5.07000 | 15.11000 | .01000 | .09435 | -4.3600 | -4.1700 | .00700 | 20.04960 | .04433 | .02352 |
| 1.047 | -4.620 | 5.66000 | 14.91000 | .00000 | .09411 | -4.3400 | -4.1500 | .00730 | 19.50270 | .04418 | .02341 |
| 1.047 | -3.840 | 6.22000 | 13.91000 | .00000 | .09357 | -4.2900 | -4.1300 | .00990 | 19.59810 | .04364 | .02329 |
| 1.047 | -3.150 | 6.67000 | 12.99000 | .00000 | .09339 | -4.2400 | -4.0800 | .01060 | 19.49590 | .04313 | .02299 |
| 1.047 | -2.710 | 7.53000 | 12.95000 | .00000 | .09255 | -4.2200 | -4.0500 | .01210 | 19.38620 | .04291 | .02286 |
| 1.048 | -1.960 | 8.01000 | 11.94000 | .00000 | .09289 | -4.1900 | -4.0500 | .01130 | 19.82340 | .04263 | .02281 |
| 1.046 | -1.170 | 8.60000 | 10.95000 | -.01000 | .09188 | -4.2100 | -4.0600 | .01200 | 19.33640 | .04280 | .02291 |
| 1.047 | -.530 | 9.19000 | 10.26000 | .00000 | .09207 | -4.1900 | -4.0500 | .01330 | 19.53710 | .04257 | .02284 |
| 1.047 | .130 | 10.16000 | 9.89000 | .00000 | .09161 | -4.1900 | -4.0500 | .01250 | 19.79450 | .04266 | .02277 |
| 1.047 | 1.010 | 10.84000 | 8.81000 | .00000 | .09162 | -4.1900 | -4.0400 | .01250 | 19.25330 | .04266 | .02263 |
| 1.048 | 1.690 | 11.50000 | 8.11000 | .00000 | .09213 | -4.1700 | -4.0100 | .01400 | 19.43910 | .04267 | .02270 |
| 1.046 | 2.170 | 12.36000 | 8.02000 | .01900 | .09237 | -4.1900 | -4.0300 | .01250 | 19.56250 | .04267 | .02265 |
| 1.049 | 3.720 | 12.91000 | 7.44000 | .00000 | .09347 | -4.1800 | -4.0200 | .01320 | 19.98440 | .04253 | .02256 |
| 1.047 | 4.190 | 13.99000 | 6.53000 | .00000 | .09358 | -4.1900 | -4.0000 | .01210 | 19.54860 | .04266 | .02251 |
| 1.047 | 4.950 | 14.40000 | 6.01000 | .01000 | .09395 | -4.2000 | -3.9900 | .01210 | 19.50120 | .04277 | .02263 |
| 1.047 | 4.950 | 15.12000 | 5.20000 | .01000 | .09459 | -4.2400 | -4.0100 | .01420 | 19.47490 | .04316 | .02263 |
| 1.047 | 1.01468 | 1.01468 | -.98878 | .00093 | .00004 | .00090 | .00131 | .00042 | .00420 | -.00009 | -.00007 |

TABLATED SOURCE DATA. CALSPAN T18-103 (LA70)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

DATE 04 MAY 76

(SUK130) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = .000 ELEVON = 10.000
 BETA = .000 ALPHA = .000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 209/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | AB | CAC |
|-------|----------|----------|----------|---------|--------|---------|---------|--------|----------|--------|---------|
| 1.197 | -4.940 | 5.05000 | 14.94000 | -.01000 | .08882 | -.39100 | -.37900 | .01370 | 17.25070 | .03982 | .02136 |
| 1.198 | -4.400 | 5.12000 | 13.92000 | .00000 | .08819 | -.38700 | -.37600 | .01360 | 17.24400 | .03933 | .02118 |
| 1.198 | -3.140 | 6.62000 | 12.91000 | .00000 | .08708 | -.38700 | -.37200 | .01300 | 17.25990 | .03939 | .02100 |
| 1.193 | -2.010 | 7.60000 | 11.64000 | .01000 | .08612 | -.38900 | -.37000 | .01890 | 17.28340 | .03959 | .02089 |
| 1.197 | -1.240 | 8.35000 | 10.83000 | .00000 | .08515 | -.39000 | -.37100 | .01950 | 17.26930 | .03972 | .02090 |
| 1.198 | -.720 | 9.63000 | 10.06000 | .00000 | .08492 | -.39000 | -.37000 | .01520 | 17.28340 | .03960 | .02094 |
| 1.199 | 1.770 | 10.37000 | 8.92000 | .02000 | .08480 | -.38900 | -.37100 | .01790 | 17.27390 | .03954 | .02091 |
| 1.197 | 2.350 | 12.29000 | 7.86000 | .01000 | .08591 | -.38900 | -.37200 | .01140 | 17.29650 | .03953 | .02096 |
| 1.198 | 3.170 | 13.06000 | 7.59000 | .00000 | .08634 | -.38900 | -.37200 | .01310 | 17.28490 | .03955 | .02100 |
| 1.197 | 4.260 | 14.34000 | 6.72000 | .00000 | .08714 | -.39100 | -.37300 | .01450 | 17.28870 | .03978 | .02102 |
| 1.197 | 4.890 | 14.82000 | 5.81000 | .02000 | .08911 | -.39300 | -.37500 | .01520 | 17.29510 | .03993 | .02115 |
| 1.197 | GRADIENT | 1.02606 | -.97608 | .00153 | .00000 | -.00026 | .00026 | .00008 | .00439 | .00002 | -.00001 |

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PAGE 373
(SUK131) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00
ELEVON = 4.500
ALPHA = .000
SPDBRK = 1.000
BOFLAP = .000

RUN NO. 118/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|--------|----------|--------|--------|
| .597 | -5.040 | 5.05000 | 15.14000 | -.01000 | .02778 | -.22700 | -.20200 | .00600 | 17.16770 | .02310 | .01143 |
| .597 | -4.170 | 5.98000 | 14.33000 | -.01000 | .02717 | -.22500 | -.20100 | .00900 | 17.15750 | .02294 | .01134 |
| .597 | -3.120 | 6.56000 | 12.80000 | -.01000 | .02691 | -.22300 | -.20200 | .01130 | 17.15940 | .02274 | .01139 |
| .597 | -2.770 | 7.12000 | 12.66000 | .00000 | .02674 | -.22200 | -.20100 | .01240 | 17.20080 | .02264 | .01133 |
| .596 | -1.820 | 8.24000 | 11.89000 | .00000 | .02602 | -.22500 | -.20800 | .01310 | 17.19970 | .02286 | .01173 |
| .597 | -.670 | 9.19000 | 10.54000 | .00000 | .02576 | -.22200 | -.20600 | .01390 | 17.18760 | .02257 | .01160 |
| .597 | .110 | 10.28000 | 10.04000 | .00000 | .02579 | -.22200 | -.20700 | .01280 | 17.22040 | .02262 | .01169 |
| .597 | .930 | 11.10000 | 9.23000 | .00000 | .02597 | -.22300 | -.20600 | .01390 | 17.23470 | .02268 | .01174 |
| .597 | 1.920 | 12.34000 | 8.18000 | .00000 | .02534 | -.22400 | -.21100 | .01650 | 17.19550 | .02284 | .01190 |
| .596 | 2.490 | 12.81000 | 7.81000 | .00000 | .02541 | -.22400 | -.21000 | .01780 | 17.16450 | .02284 | .01193 |
| .597 | 3.410 | 13.84000 | 7.02000 | .00000 | .02612 | -.22500 | -.21200 | .01580 | 17.16990 | .02291 | .01195 |
| .597 | 4.140 | 14.26000 | 5.98000 | .00000 | .02714 | -.22600 | -.21200 | .01500 | 17.21240 | .02300 | .01195 |
| .597 | 5.030 | 15.08000 | 5.01000 | .01000 | .02815 | -.22400 | -.21100 | .01370 | 17.21820 | .02283 | .01190 |
| | GRADIENT | 1.04854 | -.95357 | .00094 | -.00009 | -.00019 | -.00144 | .00077 | .00257 | .00002 | .00008 |

RUN NO. 87/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|--------|---------|---------|--------|----------|--------|--------|
| .896 | -4.950 | 5.02000 | 14.93000 | .00000 | .05029 | -.24800 | -.22800 | .00380 | 17.31540 | .02520 | .01285 |
| .896 | -3.950 | 6.21000 | 14.12000 | -.01000 | .04913 | -.25000 | -.23000 | .00790 | 17.32000 | .02543 | .01295 |
| .897 | -3.200 | 6.49000 | 12.90000 | .00000 | .04903 | -.24800 | -.23000 | .01140 | 17.34700 | .02526 | .01295 |
| .895 | -2.790 | 6.98000 | 12.56000 | .00000 | .04780 | -.24900 | -.23000 | .01230 | 17.31110 | .02532 | .01297 |
| .897 | -1.630 | 7.93000 | 11.61000 | .00000 | .04796 | -.24800 | -.23300 | .01320 | 17.34370 | .02526 | .01316 |
| .896 | -1.360 | 8.04000 | 10.77000 | .00000 | .04789 | -.24400 | -.23100 | .01460 | 17.33610 | .02488 | .01304 |
| .896 | -.550 | 9.29000 | 10.39000 | .00000 | .04795 | -.24100 | -.23000 | .01310 | 17.32990 | .02456 | .01297 |
| .896 | .290 | 10.42000 | 9.84000 | .00000 | .04782 | -.24000 | -.23000 | .01310 | 17.32070 | .02448 | .01295 |
| .897 | .930 | 10.89000 | 9.01000 | .01000 | .04825 | -.24400 | -.23200 | .01320 | 17.35810 | .02465 | .01311 |
| .896 | 2.030 | 12.07000 | 7.99000 | .01000 | .04765 | -.24600 | -.23600 | .01290 | 17.30980 | .02528 | .01330 |
| .896 | 2.650 | 12.86000 | 7.55000 | .00000 | .04782 | -.25400 | -.23700 | .01490 | 17.33660 | .02586 | .01335 |
| .896 | 3.470 | 13.80000 | 6.85000 | .00000 | .04873 | -.25700 | -.24000 | .01320 | 17.34300 | .02620 | .01356 |
| .896 | 4.090 | 14.07000 | 5.88000 | .00000 | .04871 | -.25700 | -.24200 | .01320 | 17.32660 | .02612 | .01366 |
| .896 | 5.050 | 15.09000 | 4.98000 | .01000 | .04985 | -.25600 | -.24400 | .01230 | 17.33190 | .02604 | .01376 |
| | GRADIENT | 1.03800 | -.96528 | .00071 | .00012 | -.00076 | -.00132 | .00070 | .00108 | .00008 | .00008 |

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

DATE 04 MAY 76

(SUK131) (26 FEB 76)

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
BETA = .000 ALPHA = 5.000
GRIT = 1.000 SPDBRK = 25.000
RUDDER = .000 BDFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

RUN NO. 183/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | A1LRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|--------|----------|--------|---------|
| .945 | -5.050 | 5.00000 | 15.11000 | -.01000 | .06977 | -.31500 | -.28000 | .00540 | 17.65350 | .03205 | .01582 |
| .946 | -4.760 | 5.68000 | 15.22000 | .00000 | .06987 | -.31600 | -.28000 | .00630 | 17.66690 | .03219 | .01581 |
| .948 | -4.230 | 6.47000 | 14.95000 | .00000 | .07127 | -.32000 | -.28200 | .00610 | 17.70150 | .03258 | .01592 |
| .948 | -3.680 | 6.67000 | 14.04000 | .00000 | .06974 | -.31700 | -.28300 | .00770 | 17.69300 | .03231 | .01595 |
| .946 | -2.690 | 7.19000 | 12.58000 | .00000 | .06754 | -.31300 | -.28100 | .00850 | 17.69830 | .03182 | .01582 |
| .946 | -2.370 | 8.01000 | 12.77000 | .00000 | .06731 | -.30900 | -.27500 | .00930 | 17.68490 | .03147 | .01554 |
| .947 | -1.650 | 8.40000 | 11.79000 | .00000 | .06710 | -.30700 | -.27500 | .00890 | 17.68860 | .03125 | .01546 |
| .948 | -.600 | 9.59000 | 10.80000 | .00000 | .06600 | -.30900 | -.27400 | .00920 | 17.66780 | .03173 | .01577 |
| .948 | -.010 | 10.15000 | 10.18000 | .00000 | .06656 | -.31200 | -.27900 | .00980 | 17.72770 | .03173 | .01577 |
| .948 | .910 | 11.25000 | 9.41000 | .00000 | .06577 | -.31100 | -.27800 | .00900 | 17.67560 | .03169 | .01568 |
| .946 | 2.030 | 12.17000 | 8.10000 | .00000 | .06466 | -.31300 | -.27500 | .01210 | 17.63980 | .03184 | .01558 |
| .946 | 2.430 | 12.74000 | 7.68000 | .01000 | .06599 | -.31400 | -.27600 | .01050 | 17.67100 | .03200 | .01573 |
| .948 | 3.330 | 13.71000 | 7.04000 | .00000 | .06773 | -.32000 | -.27900 | .01120 | 17.65780 | .03257 | .01584 |
| .948 | 3.950 | 13.99000 | 6.08000 | .00000 | .06750 | -.32500 | -.28100 | .00760 | 17.68110 | .03306 | .01574 |
| .947 | 5.070 | 15.18000 | 5.02000 | .02000 | .06818 | -.32400 | -.27900 | .00990 | 17.64650 | .03301 | .01574 |
| | GRADIENT | .97596 | -1.02782 | .00029 | -.00043 | -.00043 | .00031 | .00042 | -.00321 | .00004 | -.00002 |

RUN NO. 273/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | A1LRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|--------|----------|--------|---------|
| .978 | -5.080 | 5.02000 | 15.15000 | .00000 | .08103 | -.38200 | -.34100 | .00800 | 17.61530 | .03686 | .01923 |
| .978 | -4.830 | 5.02000 | 14.69000 | .00000 | .08103 | -.39100 | -.33900 | .00860 | 17.58530 | .03875 | .01913 |
| .977 | -4.170 | 5.61000 | 13.96000 | -.01000 | .07915 | -.37900 | -.33700 | .00800 | 17.59290 | .03851 | .01901 |
| .976 | -3.060 | 6.60000 | 12.73000 | .00000 | .07742 | -.37200 | -.33000 | .00800 | 17.57520 | .03781 | .01861 |
| .978 | -2.190 | 7.14000 | 11.54000 | .00000 | .07726 | -.37300 | -.33700 | .00860 | 17.55480 | .03797 | .01900 |
| .977 | -1.530 | 7.61000 | 10.69000 | .00000 | .07653 | -.36800 | -.33200 | .00920 | 17.55060 | .03744 | .01874 |
| .976 | -1.030 | 8.01000 | 10.07000 | .00000 | .07552 | -.36400 | -.33100 | .01220 | 17.56700 | .03708 | .01864 |
| .976 | .130 | 9.71000 | 9.44000 | .00000 | .07460 | -.36600 | -.33300 | .00780 | 17.52270 | .03722 | .01879 |
| .976 | 1.150 | 10.33000 | 8.03000 | .01000 | .07594 | -.36400 | -.33300 | .00670 | 17.54300 | .03700 | .01853 |
| .977 | 1.870 | 11.22000 | 7.43000 | .00000 | .07589 | -.36900 | -.32700 | .00990 | 17.56910 | .03757 | .01846 |
| .976 | 3.180 | 12.69000 | 6.32000 | .00000 | .07654 | -.37300 | -.32900 | .00720 | 17.57620 | .03794 | .01853 |
| .977 | 4.360 | 13.94000 | 5.21000 | .00000 | .07637 | -.38000 | -.33500 | .00800 | 17.56940 | .03863 | .01888 |
| .978 | 4.570 | 14.15000 | 4.99000 | .00000 | .07837 | -.38200 | -.33800 | .00860 | 17.56940 | .03889 | .01906 |
| .977 | 4.910 | 14.79000 | 4.95000 | .01000 | .07861 | -.38400 | -.33600 | .00860 | 17.59380 | .03902 | .01897 |
| | GRADIENT | 1.00025 | -1.00314 | .00073 | -.00012 | -.00045 | .00019 | .00001 | -.00019 | .00005 | -.00001 |

(SUK131) (26 FEB 76)

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

DATE 04 MAY 76

REFERENCE DATA

SREF = 2690.0000 SQ.F.T. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

| MACH | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|----------|----------|---------|---------|---------|---------|--------|----------|---------|---------|
| 1.048 | 5.04000 | 15.08000 | -.01000 | .09669 | -.43700 | -.41200 | .00610 | 17.65000 | .04448 | .02324 |
| 1.047 | 5.08000 | 14.41000 | .00000 | .09571 | -.43800 | -.41400 | .00840 | 17.63380 | .04459 | .02331 |
| 1.048 | 5.95000 | 13.17000 | -.01000 | .09529 | -.43500 | -.41200 | .00990 | 17.62240 | .04422 | .02323 |
| 1.047 | 6.64000 | 12.87000 | .00000 | .09460 | -.43500 | -.41300 | .00990 | 17.64170 | .04420 | .02326 |
| 1.048 | 6.99000 | 12.63000 | .00000 | .09409 | -.43300 | -.41000 | .01010 | 17.60280 | .04404 | .02311 |
| 1.048 | 7.96000 | 11.01000 | .00000 | .09380 | -.43300 | -.40900 | .01190 | 17.63250 | .04399 | .02307 |
| 1.046 | 8.43000 | 10.40000 | .00000 | .09319 | -.43500 | -.41000 | .01140 | 17.62890 | .04420 | .02312 |
| 1.048 | 9.07000 | 10.14000 | .00060 | .09294 | -.43200 | -.40800 | .01210 | 17.60140 | .04394 | .02302 |
| 1.047 | 10.38000 | 8.95000 | .00000 | .09208 | -.43100 | -.40700 | .01510 | 17.62650 | .04396 | .02291 |
| 1.046 | 10.92000 | 7.83000 | .00000 | .09330 | -.42500 | -.40100 | .01560 | 17.59830 | .04327 | .02293 |
| 1.049 | 11.51000 | 7.50000 | .00000 | .09399 | -.42500 | -.40200 | .01420 | 17.62530 | .04359 | .02266 |
| 1.046 | 12.61000 | 6.85000 | .00000 | .09417 | -.42900 | -.40200 | .01280 | 17.63410 | .04395 | .02267 |
| 1.047 | 13.90000 | 5.97000 | .00000 | .09495 | -.43200 | -.40100 | .01630 | 17.61910 | .04398 | .02263 |
| 1.049 | 14.31000 | 4.96000 | .00000 | .09573 | -.43200 | -.40100 | .01630 | 17.61910 | .04433 | .02295 |
| 1.046 | 15.10000 | 5.04000 | .01000 | .09666 | -.43600 | -.40700 | .01210 | 17.71320 | .04433 | .02295 |
| GRADIENT | 1.00179 | -1.00094 | .00032 | -.00002 | .00072 | .00147 | .00072 | -.00098 | -.00007 | -.00008 |

| MACH | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|----------|----------|---------|--------|---------|---------|--------|----------|---------|---------|
| 1.117 | 5.01000 | 15.15000 | .01000 | .10313 | -.38300 | -.36500 | .00800 | 17.75900 | .03892 | .02059 |
| 1.117 | 6.37000 | 14.11000 | -.02000 | .10254 | -.38000 | -.36300 | .00930 | 17.81400 | .03968 | .02046 |
| 1.118 | 6.80000 | 12.83000 | .00000 | .10221 | -.37700 | -.36100 | .01050 | 17.81660 | .03836 | .02038 |
| 1.117 | 7.53000 | 12.99000 | .01000 | .10095 | -.37700 | -.36100 | .01440 | 17.74600 | .03803 | .02036 |
| 1.118 | 8.18000 | 11.89000 | .00000 | .10103 | -.37500 | -.36000 | .01320 | 17.79110 | .03813 | .02033 |
| 1.118 | 9.30000 | 10.74000 | .01000 | .10016 | -.37500 | -.36000 | .01800 | 17.79250 | .03810 | .02024 |
| 1.118 | 10.21000 | 10.21000 | .00000 | .10035 | -.37400 | -.35600 | .01660 | 17.79180 | .03805 | .02010 |
| 1.116 | 0.99000 | 9.02000 | .00000 | .10026 | -.37600 | -.35800 | .01670 | 17.77530 | .03825 | .02019 |
| 1.116 | 12.29000 | 7.97000 | .00000 | .10080 | -.37300 | -.35500 | .01660 | 17.74760 | .03792 | .02000 |
| 1.118 | 2.710 | 7.42000 | .01000 | .10173 | -.36900 | -.35100 | .01600 | 17.77220 | .03756 | .01981 |
| 1.116 | 3.700 | 6.74000 | .00000 | .10246 | -.37000 | -.35100 | .01540 | 17.77420 | .03762 | .01980 |
| 1.117 | 4.100 | 6.09000 | .01000 | .10328 | -.37100 | -.35100 | .01440 | 17.82580 | .03776 | .01980 |
| 1.117 | 4.820 | 5.31000 | .00000 | .10381 | -.37400 | -.35200 | .01250 | 17.80280 | .03802 | .01987 |
| GRADIENT | 1.01955 | -.98339 | .00127 | .00016 | .00087 | .00142 | .00037 | -.00045 | -.00009 | -.00008 |

(SUK132) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.000 ELEVON = 10.000
 BETA = .000 ALPHA = 5.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 208/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALLRON | FLVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|----------|---------|--------|---------|---------|--------|----------|---------|---------|
| 1.197 | -5.120 | 4.72000 | 14.97000 | .00000 | .09407 | -.36600 | -.34600 | .01080 | 17.51590 | .03721 | .01949 |
| 1.197 | -3.980 | 6.21000 | 14.19000 | -.02000 | .09431 | -.36200 | -.34300 | .01100 | 17.52580 | .03687 | .01934 |
| 1.197 | -2.990 | 6.77000 | 12.75000 | .00000 | .09368 | -.36000 | -.34400 | .01070 | 17.50250 | .03667 | .01940 |
| 1.198 | -2.580 | 7.65000 | 12.83000 | .00000 | .09340 | -.35800 | -.34400 | .01210 | 17.52990 | .03646 | .01942 |
| 1.197 | -1.430 | 8.44000 | 11.32000 | .00000 | .09272 | -.35800 | -.34300 | .01300 | 17.50450 | .03644 | .01937 |
| 1.196 | -.750 | 9.21000 | 10.72000 | .01000 | .09223 | -.35800 | -.34300 | .01300 | 17.50340 | .03643 | .01936 |
| 1.197 | .180 | 10.27000 | 9.90000 | .01000 | .09187 | -.35800 | -.34300 | .01300 | 17.50280 | .03645 | .01932 |
| 1.198 | 1.040 | 11.01000 | 8.92000 | .01000 | .09195 | -.36100 | -.34200 | .01370 | 17.52600 | .03650 | .01930 |
| 1.197 | 1.830 | 11.56000 | 7.98000 | .02000 | .09195 | -.35700 | -.33700 | .01450 | 17.50390 | .03671 | .01902 |
| 1.198 | 2.420 | 12.52000 | 7.68000 | .02000 | .09281 | -.35300 | -.33300 | .01460 | 17.52070 | .03633 | .01880 |
| 1.197 | 3.100 | 13.19000 | 6.97000 | .01000 | .09348 | -.35400 | -.33300 | .01440 | 17.50370 | .03596 | .01876 |
| 1.197 | 4.290 | 14.45000 | 5.87000 | .01000 | .09488 | -.35300 | -.33200 | .01890 | 17.52250 | .03600 | .01876 |
| 1.197 | 4.970 | 14.78000 | 4.82000 | .01000 | .09594 | -.35300 | -.33200 | .01310 | 17.54160 | .03595 | .01873 |
| 1.198 | GRADIENT | .99458 | -1.00939 | .00268 | .00012 | .00077 | .00141 | .00055 | .00114 | -.00008 | -.00008 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 377

(SUK133) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L =
 BETA =
 GRIT =
 RUDDER =
 4.500 ELEVON = 10.000
 1.000 ALPHA = 10.000
 .000 SPOBRK = 25.000
 .000 BOFLAP = .000

PARAMETRIC DATA

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|--------|---------|--------|----------|---------|--------|
| .597 | -5.040 | 5.07000 | 15.16000 | -0.1070 | -0.0190 | -23300 | -20200 | .00320 | 16.86560 | .02375 | .01137 |
| .597 | -4.420 | 5.43000 | 14.27000 | -0.0700 | -0.0374 | -23200 | -19900 | .00400 | 16.83600 | .02366 | .01124 |
| .597 | -3.240 | 6.43000 | 12.92000 | -0.1011 | -0.0502 | -23100 | -19900 | .01180 | 16.82910 | .02356 | .01124 |
| .596 | -2.930 | 6.84000 | 12.72000 | 0.0011 | -0.0514 | -22800 | -19800 | .01330 | 16.84060 | .02325 | .01118 |
| .597 | -2.120 | 7.65000 | 11.89000 | 0.0000 | -0.0459 | -22700 | -19800 | .01500 | 16.81780 | .02310 | .01120 |
| .597 | -1.090 | 8.43000 | 10.62000 | 0.0000 | -0.0553 | -22300 | -20000 | .01480 | 16.81850 | .02272 | .01127 |
| .597 | .760 | 9.78000 | 10.13000 | 0.0000 | -0.0499 | -22400 | -20000 | .01540 | 16.82520 | .02278 | .01129 |
| .597 | 1.920 | 10.78000 | 9.24000 | 0.0000 | -0.0463 | -22500 | -20300 | .01670 | 16.84510 | .02287 | .01145 |
| .597 | 2.770 | 12.99000 | 8.08000 | 0.0000 | -0.0496 | -22500 | -20500 | .01670 | 16.85180 | .02293 | .01156 |
| .596 | 3.690 | 14.01000 | 6.62000 | 0.1000 | -0.0363 | -22500 | -20700 | .01710 | 16.86120 | .02296 | .01169 |
| .597 | 4.150 | 14.21000 | 5.89000 | 0.1070 | -0.0234 | -22700 | -20800 | .01760 | 16.86710 | .02292 | .01171 |
| .597 | 5.040 | 15.12000 | 5.03000 | 0.1000 | -0.0232 | -22600 | -20600 | .01540 | 16.85230 | .02304 | .01162 |
| | GRADIENT | 1.06234 | -94106 | .00211 | .00020 | .00059 | -.00126 | .00107 | .00544 | -.00006 | .00007 |

RUN NO. 119/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|--------|--------|---------|--------|----------|---------|--------|
| .837 | -5.070 | 4.96000 | 15.10000 | .00000 | .04629 | -28900 | -25800 | .01000 | 16.99320 | .02940 | .01455 |
| .896 | -4.740 | 5.11000 | 14.60000 | .00000 | .04589 | -28700 | -25700 | .00620 | 17.06640 | .02924 | .01448 |
| .896 | -3.930 | 5.99000 | 13.85000 | -0.1000 | .04517 | -28500 | -25600 | .00980 | 17.00140 | .02904 | .01444 |
| .896 | -3.040 | 6.42000 | 12.51000 | .00000 | .04432 | -28200 | -25100 | .01290 | 16.95940 | .02869 | .01418 |
| .897 | -2.750 | 7.12000 | 12.63000 | .00000 | .04372 | -27900 | -25100 | .01530 | 17.01360 | .02873 | .01432 |
| .896 | -1.770 | 8.00000 | 11.55000 | .00000 | .04367 | -27900 | -25100 | .01940 | 17.01000 | .02835 | .01418 |
| .897 | -1.300 | 8.07000 | 10.68000 | .00000 | .04340 | -28100 | -25200 | .01600 | 17.02970 | .02862 | .01420 |
| .896 | .740 | 9.29000 | 10.06000 | .00000 | .04340 | -28100 | -25200 | .01620 | 17.04570 | .02864 | .01419 |
| .895 | 1.630 | 10.58000 | 9.09000 | .00000 | .04276 | -27800 | -25200 | .01550 | 17.06250 | .02831 | .01421 |
| .896 | 2.380 | 11.30000 | 8.02000 | 0.1000 | .04440 | -28100 | -25200 | .01850 | 17.05490 | .02859 | .01434 |
| .896 | 3.480 | 12.41000 | 7.64000 | .00000 | .04493 | -28000 | -25500 | .01860 | 17.04580 | .02852 | .01441 |
| .897 | 3.480 | 13.54000 | 6.57000 | 0.1000 | .04513 | -28300 | -26100 | .01630 | 17.01830 | .02834 | .01466 |
| .896 | 4.050 | 14.11000 | 6.01000 | .00000 | .04574 | -28400 | -26100 | .01470 | 17.00950 | .02886 | .01470 |
| .896 | 4.670 | 14.48000 | 5.13000 | .01000 | .04658 | -28700 | -26500 | .01620 | 17.01720 | .02919 | .01494 |
| .896 | 5.010 | 15.06000 | 5.03000 | 0.1000 | .04703 | -28800 | -26400 | .01470 | 17.03710 | .02927 | .01489 |
| .897 | GRADIENT | 1.02664 | -97578 | .00117 | .05010 | .00002 | -.00083 | .00069 | .00192 | -.00001 | .00005 |

RUN NO. 88/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

(SUK137) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

DATE 04 MAY 76

PARAMETRIC DATA

4.500 ELEVON = 10.000
.000 ALPHA = 10.000
1.000 SPBRK = 25.000
.000 BDFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

RUN NO. 192/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|---------|----------|----------|--------|---------|---------|---------|--------|----------|--------|--------|
| .947 | -4.890 | 5.44000 | 15.23000 | .00000 | .06100 | -.33700 | -.29300 | .00550 | 17.31480 | .03431 | .01654 |
| .949 | -3.870 | 6.52000 | 14.26000 | .00000 | .06141 | -.33900 | -.29700 | .00760 | 17.33050 | .03445 | .01674 |
| .947 | -2.970 | 7.05000 | 13.00000 | .00000 | .05980 | -.32900 | -.29000 | .01140 | 17.31180 | .03345 | .01634 |
| .946 | -2.460 | 7.93000 | 12.87000 | .00000 | .05870 | -.32600 | -.28500 | .01560 | 17.33850 | .03340 | .01610 |
| .947 | -1.630 | 8.62000 | 11.89000 | .00000 | .05741 | -.33200 | -.28600 | .01490 | 17.32860 | .03377 | .01616 |
| .947 | -.450 | 9.95000 | 10.87000 | .00000 | .05738 | -.33000 | -.28400 | .01640 | 17.34010 | .03359 | .01604 |
| .949 | .250 | 10.70000 | 10.18000 | .00000 | .05767 | -.33100 | -.28600 | .01580 | 17.35890 | .03363 | .01614 |
| .947 | 1.140 | 11.41000 | 9.11000 | .00000 | .05711 | -.33100 | -.28500 | .01580 | 17.34430 | .03370 | .01606 |
| .947 | 2.020 | 12.28000 | 8.24000 | .00000 | .05817 | -.33500 | -.29200 | .01560 | 17.31730 | .03405 | .01646 |
| .947 | 2.540 | 12.86000 | 7.76000 | .00000 | .05915 | -.34400 | -.30000 | .01490 | 17.36860 | .03496 | .01694 |
| .948 | 3.480 | 14.08000 | 7.11000 | .01000 | .06041 | -.34300 | -.30000 | .01810 | 17.33590 | .03492 | .01690 |
| .948 | 4.050 | 14.20000 | 6.08000 | .03000 | .06062 | -.33900 | -.29700 | .01450 | 17.36640 | .03451 | .01676 |
| .946 | 5.030 | 15.05000 | 4.99000 | .01000 | .06062 | -.33900 | -.29700 | .01450 | 17.36640 | .03451 | .01676 |
| GRADIENT | 1.00638 | | -.99727 | .00172 | -.00020 | -.00076 | -.00060 | .00099 | .00267 | .00008 | .00003 |

RUN NO. 274/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|----------|---------|----------|----------|--------|---------|---------|---------|--------|----------|--------|--------|
| .977 | -4.410 | 5.21000 | 14.03000 | .00000 | .07180 | -.33900 | -.35900 | .00770 | 17.33920 | .04059 | .02026 |
| .976 | -3.210 | 6.23000 | 12.66000 | .00000 | .07002 | -.39700 | -.35600 | .01230 | 17.34140 | .04037 | .02006 |
| .979 | -1.990 | 7.40000 | 11.40000 | .00000 | .06799 | -.40000 | -.36100 | .01520 | 17.29570 | .04072 | .02035 |
| .978 | -1.280 | 8.00000 | 10.56000 | .00000 | .06744 | -.39800 | -.35700 | .01410 | 17.30030 | .04044 | .02014 |
| .977 | -.600 | 8.96000 | 10.16000 | .01000 | .06814 | -.39300 | -.35200 | .01520 | 17.33010 | .03993 | .01982 |
| .976 | .550 | 10.01000 | 8.89000 | .02000 | .06646 | -.39600 | -.35300 | .01540 | 17.30510 | .04026 | .01991 |
| .976 | 1.620 | 11.02000 | 7.77000 | .00000 | .06726 | -.39600 | -.35300 | .01630 | 17.30720 | .04023 | .02010 |
| .977 | 2.330 | 11.74000 | 7.08000 | .00000 | .06745 | -.39900 | -.35700 | .01610 | 17.30870 | .04061 | .02010 |
| .978 | 3.140 | 12.49000 | 6.21000 | .01000 | .06763 | -.40800 | -.36500 | .01630 | 17.31180 | .04150 | .02060 |
| .978 | 4.120 | 13.47000 | 5.23000 | .01000 | .06393 | -.40800 | -.36500 | .01630 | 17.33440 | .04148 | .02060 |
| .976 | 4.530 | 14.13000 | 5.06000 | .01000 | .07072 | -.40600 | -.36500 | .01610 | 17.33330 | .04127 | .02060 |
| .977 | 4.780 | 14.64000 | 5.07000 | .02000 | .07171 | -.41400 | -.37700 | .01210 | 17.36930 | .04216 | .02124 |
| GRADIENT | 1.00978 | | -.99188 | .00145 | -.00002 | -.00141 | -.00133 | .00051 | .00056 | .00014 | .00008 |

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 10.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 260/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|----------|---------|--------|---------|---------|---------|----------|--------|--------|
| 1.047 | -5.120 | 5.06000 | 15.30000 | -0.1000 | .08912 | -4.5800 | -4.3200 | .00710 | 17.40100 | .04661 | .02435 |
| 1.048 | -4.520 | 5.63000 | 14.68000 | .00000 | .08801 | -4.5600 | -4.2900 | .00710 | 17.39160 | .04634 | .02420 |
| 1.046 | -3.540 | 6.51000 | 13.60000 | -0.1000 | .08785 | -4.5700 | -4.3300 | .00690 | 17.39700 | .04653 | .02439 |
| 1.047 | -2.860 | 6.75000 | 12.48000 | .00000 | .08713 | -4.5800 | -4.3400 | .00690 | 17.42160 | .04656 | .02446 |
| 1.048 | -2.530 | 7.56000 | 12.63000 | .00000 | .08537 | -4.5800 | -4.3600 | .00710 | 17.41340 | .04658 | .02460 |
| 1.047 | -1.600 | 7.77000 | 10.97000 | .00000 | .08541 | -4.5600 | -4.3700 | .00710 | 17.41690 | .04641 | .02461 |
| 1.047 | -.850 | 8.69000 | 10.44000 | .00000 | .08556 | -4.5400 | -4.3700 | .00790 | 17.39250 | .04513 | .02449 |
| 1.048 | .050 | 10.13000 | 10.01000 | .00000 | .08568 | -4.5200 | -4.3300 | .00920 | 17.42550 | .04596 | .02440 |
| 1.048 | 1.330 | 11.23000 | 8.56000 | .00000 | .08598 | -4.5400 | -4.3500 | .00790 | 17.41140 | .04613 | .02460 |
| 1.047 | 2.180 | 12.09000 | 7.22000 | .00000 | .08676 | -4.5600 | -4.3900 | .00780 | 17.44770 | .04640 | .02474 |
| 1.048 | 2.710 | 12.83000 | 7.40000 | .00000 | .08691 | -4.5800 | -4.4000 | .00480 | 17.41480 | .04656 | .02479 |
| 1.048 | 3.880 | 14.24000 | 6.47000 | .01000 | .08810 | -4.6100 | -4.3900 | .00350 | 17.44180 | .04690 | .02478 |
| 1.046 | 4.350 | 14.32000 | 5.60000 | .01000 | .08808 | -4.6400 | -4.4100 | .00280 | 17.41270 | .04721 | .02486 |
| 1.046 | 4.800 | 14.88000 | 5.28000 | .01000 | .08909 | -4.6200 | -4.4100 | .00410 | 17.43940 | .04700 | .02485 |
| 1.048 | GRADIENT | 1.02692 | -97560 | .00133 | .00012 | -0.0056 | -0.0101 | -0.0045 | .00364 | .00006 | .00006 |

RUN NO. 296/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|----------|---------|--------|---------|---------|---------|----------|--------|--------|
| 1.118 | -5.120 | 5.01000 | 15.25000 | .00000 | .09382 | -3.9700 | -3.8200 | .00580 | 17.43560 | .04041 | .02151 |
| 1.117 | -4.780 | 5.02000 | 14.59000 | .00000 | .09306 | -3.9600 | -3.8000 | .00850 | 17.41980 | .04027 | .02145 |
| 1.117 | -3.840 | 5.26000 | 12.94000 | -0.1000 | .09210 | -3.9400 | -3.7900 | .00930 | 17.39210 | .04012 | .02138 |
| 1.118 | -3.330 | 6.30000 | 12.97000 | .00000 | .09163 | -3.9100 | -3.7600 | .00920 | 17.40440 | .03977 | .02120 |
| 1.117 | -2.400 | 6.80000 | 11.60000 | .00000 | .09115 | -3.9400 | -3.8000 | .01040 | 17.42360 | .04010 | .02140 |
| 1.117 | -1.460 | 7.71000 | 10.64000 | .00000 | .09073 | -3.9200 | -3.8000 | .00920 | 17.39510 | .03984 | .02145 |
| 1.118 | -.990 | 8.19000 | 10.18000 | .01000 | .09092 | -3.9100 | -3.8100 | .00930 | 17.41540 | .03973 | .02150 |
| 1.117 | .030 | 9.48000 | 9.41000 | .01000 | .09064 | -3.9000 | -3.8200 | .01130 | 17.42360 | .03969 | .02151 |
| 1.117 | 1.040 | 10.13000 | 8.03000 | .01000 | .09106 | -3.9100 | -3.8200 | .01450 | 17.42200 | .03978 | .02153 |
| 1.116 | 1.820 | 11.21000 | 7.56000 | .02000 | .09130 | -3.9200 | -3.8200 | .00840 | 17.43390 | .03991 | .02154 |
| 1.117 | 2.510 | 11.98000 | 6.95000 | .00000 | .09181 | -3.9300 | -3.8200 | .01120 | 17.43590 | .04002 | .02154 |
| 1.116 | 3.340 | 12.72000 | 6.04000 | .01000 | .09187 | -3.9600 | -3.8300 | .00780 | 17.42370 | .04032 | .02159 |
| 1.117 | 4.740 | 14.27000 | 4.78000 | .01000 | .09451 | -3.9500 | -3.8500 | .00650 | 17.44600 | .04016 | .02169 |
| 1.117 | 5.020 | 14.73000 | 4.68000 | .00000 | .09460 | -3.9600 | -3.8500 | .00770 | 17.42630 | .04028 | .02173 |
| 1.117 | GRADIENT | .99782 | -1.00438 | .00171 | .00008 | -0.0005 | -0.0053 | -0.0009 | .00389 | .00001 | .00003 |

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000
 BETA ALPHA = 10.000
 GRIT SPDBRK = 25.000
 RUDDER BOFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 207/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALLRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|----------|---------|--------|---------|---------|---------|----------|---------|---------|
| 1.197 | -5.090 | 5.00000 | 15.18000 | -.01000 | .10270 | -.35000 | -.33300 | .01080 | 17.80660 | .03564 | .01879 |
| 1.198 | -4.530 | 5.30000 | 14.38000 | .00000 | .10225 | -.34800 | -.33000 | .00910 | 17.78860 | .03540 | .01863 |
| 1.196 | -3.580 | 6.05000 | 13.22000 | .00000 | .10145 | -.34800 | -.33000 | .00920 | 17.78040 | .03537 | .01861 |
| 1.198 | -2.510 | 6.63000 | 12.85000 | .00000 | .10092 | -.34500 | -.32600 | .01300 | 17.76790 | .03509 | .01838 |
| 1.197 | -1.900 | 7.30000 | 12.34000 | .00000 | .10084 | -.34400 | -.32600 | .01210 | 17.81770 | .03496 | .01838 |
| 1.198 | .340 | 8.01000 | 11.02000 | .02000 | .10026 | -.34400 | -.32600 | .01290 | 17.80010 | .03503 | .01832 |
| 1.196 | 1.350 | 8.41000 | 10.21000 | .00000 | .09954 | -.34300 | -.32300 | .01590 | 17.80080 | .03485 | .01822 |
| 1.197 | 1.620 | 10.13000 | 9.44000 | .00000 | .09970 | -.34200 | -.32300 | .00850 | 17.84980 | .03450 | .01797 |
| 1.198 | 2.700 | 11.14000 | 7.97000 | .00000 | .10054 | -.33900 | -.31900 | .01160 | 17.80930 | .03452 | .01796 |
| 1.196 | 3.670 | 12.58000 | 7.18000 | .00000 | .10116 | -.33900 | -.31800 | .00920 | 17.82350 | .03445 | .01788 |
| 1.197 | 4.110 | 13.52000 | 6.17000 | .00000 | .10215 | -.33900 | -.31700 | .01000 | 17.85390 | .03445 | .01785 |
| 1.198 | 4.440 | 14.33000 | 6.09000 | .00000 | .10258 | -.33900 | -.31700 | .01070 | 17.86460 | .03445 | .01795 |
| 1.197 | 4.940 | 14.82000 | 5.45000 | .02000 | .10277 | -.34100 | -.31800 | .00780 | 17.85330 | .03468 | .01809 |
| 1.198 | GRADIENT | 1.02904 | 4.94000 | .02000 | .10354 | -.34200 | -.32100 | .00920 | 17.88600 | .03485 | .01809 |
| | | | -.97433 | .00096 | .00018 | .00083 | .00131 | -.00022 | .01005 | -.00008 | -.00007 |

TABULATED SOURCE DATA, CALSPAN 118-103 (LA70)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

DATE 04 MAY 76

(SUK135) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 15.000
 CRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 120/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|--------|----------|---------|--------|
| .596 | -5.010 | 5.06000 | 15.09000 | -.01000 | -.01583 | -.25400 | -.22400 | .00900 | 16.70160 | .02584 | .01265 |
| .597 | -4.100 | 5.99000 | 14.20000 | -.01000 | -.01666 | -.25200 | -.22400 | .01070 | 16.70630 | .02566 | .01263 |
| .597 | -3.120 | 6.60000 | 12.85000 | -.01000 | -.01702 | -.24800 | -.22100 | .01300 | 16.71950 | .02522 | .01248 |
| .597 | -2.790 | 7.13000 | 12.73000 | .00000 | -.01787 | -.24400 | -.22000 | .01410 | 16.70620 | .02483 | .01241 |
| .597 | -1.500 | 8.37000 | 11.38000 | .00000 | -.01800 | -.24300 | -.22100 | .01610 | 16.70700 | .02472 | .01243 |
| .596 | -.670 | 9.27000 | 10.62000 | .00000 | -.01832 | -.24200 | -.22000 | .01560 | 16.71550 | .02467 | .01242 |
| .597 | .450 | 10.54000 | 9.63000 | .00000 | -.01799 | -.24200 | -.22000 | .01560 | 16.71590 | .02464 | .01243 |
| .598 | 1.600 | 11.59000 | 8.39000 | .00000 | -.01749 | -.24100 | -.22000 | .01670 | 16.71970 | .02466 | .01242 |
| .597 | 2.360 | 12.52000 | 7.90000 | .00000 | -.01684 | -.24100 | -.22200 | .01670 | 16.70650 | .02450 | .01252 |
| .597 | 3.090 | 13.43000 | 7.24000 | .00000 | -.01626 | -.24000 | -.22300 | .01690 | 16.72930 | .02444 | .01251 |
| .596 | 3.930 | 14.13000 | 6.27000 | .01000 | -.01555 | -.23800 | -.22200 | .01760 | 16.72450 | .02428 | .01255 |
| .597 | 4.370 | 14.69000 | 5.94000 | .01000 | -.01435 | -.24100 | -.22300 | .01500 | 16.74040 | .02449 | .01259 |
| .597 | 5.030 | 15.08000 | 5.02000 | .01000 | -.01467 | -.24000 | -.22300 | .01300 | 16.71880 | .02448 | .01256 |
| | GRADIENT | 1.05204 | -.95067 | .00176 | .00025 | .00112 | -.00010 | .00052 | .00260 | -.00011 | .00001 |

RUN NO. 100/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILLON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|--------|--------|---------|---------|--------|----------|---------|---------|
| .896 | -5.100 | 4.92000 | 15.12000 | .00000 | .04966 | -.33500 | -.30000 | .01040 | 16.96670 | .03405 | .01694 |
| .896 | -4.490 | 5.35000 | 14.33000 | .00000 | .04903 | -.33500 | -.30000 | .01110 | 16.95700 | .03413 | .01693 |
| .897 | -3.750 | 6.01000 | 13.52000 | .00000 | .04856 | -.33400 | -.29800 | .01520 | 16.97290 | .03395 | .01679 |
| .895 | -3.030 | 6.22000 | 12.29000 | .00000 | .04747 | -.33100 | -.29500 | .01490 | 16.97660 | .03365 | .01666 |
| .896 | -1.780 | 7.68000 | 11.26000 | .00000 | .04714 | -.32600 | -.29100 | .01660 | 16.99210 | .03322 | .01642 |
| .896 | -1.410 | 7.54000 | 10.37000 | .00000 | .04701 | -.32600 | -.29100 | .01550 | 17.00790 | .03321 | .01643 |
| .895 | -.580 | 8.66000 | 9.83000 | .00000 | .04675 | -.32500 | -.29000 | .02080 | 17.02310 | .03304 | .01635 |
| .896 | .600 | 10.27000 | 9.06000 | .00000 | .04687 | -.32500 | -.29000 | .01760 | 17.00650 | .03312 | .01637 |
| .896 | 1.390 | 10.88000 | 8.09000 | .00000 | .04714 | -.32300 | -.28900 | .01500 | 16.99900 | .03291 | .01633 |
| .896 | 2.340 | 12.11000 | 7.41000 | .00000 | .04757 | -.32400 | -.29000 | .01640 | 16.98950 | .03300 | .01636 |
| .896 | 3.300 | 13.15000 | 6.53000 | .00000 | .04768 | -.32400 | -.29200 | .01530 | 16.98270 | .03300 | .01645 |
| .896 | 3.990 | 13.63000 | 5.64000 | .00000 | .04818 | -.33000 | -.29700 | .01420 | 16.97290 | .03355 | .01675 |
| .896 | 4.920 | 14.82000 | 4.97000 | .00000 | .04943 | -.33200 | -.29500 | .01450 | 16.98150 | .03382 | .01685 |
| | GRADIENT | 1.03305 | -.97026 | .00000 | .00003 | .00054 | .00020 | .00009 | .00087 | -.00005 | -.00001 |

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

DATE 04 MAY 76

(SUK135) (26 FEB 76)

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
BETA = .000 ALPHA = 15.000
GRIT = 1.000 SPOBPK = 25.000
RUDDER = .000 BDFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

RUN NO. 181/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|--------|---------|---------|---------|--------|----------|--------|--------|
| .948 | -5.080 | 4.99000 | 15.17000 | .01000 | .05801 | -.39900 | -.35400 | .01120 | 17.10720 | .04063 | .01995 |
| .948 | -4.190 | 5.66000 | 14.06000 | .02000 | .05594 | -.39800 | -.35500 | .00990 | 17.09410 | .04047 | .01999 |
| .947 | -3.070 | 6.80000 | 12.94000 | .01000 | .05528 | -.38700 | -.34500 | .00770 | 17.14050 | .03938 | .01943 |
| .948 | -2.270 | 7.61000 | 12.17000 | .01000 | .05422 | -.38800 | -.34500 | .00770 | 17.14750 | .03945 | .01944 |
| .948 | -1.330 | 8.29000 | 10.96000 | .03000 | .05433 | -.38900 | -.34100 | .00820 | 17.16410 | .03959 | .01920 |
| .947 | -.460 | 9.47000 | 10.40000 | .02000 | .05382 | -.38800 | -.33700 | .00910 | 17.16030 | .03944 | .01903 |
| .947 | .180 | 10.10000 | 9.72000 | .02000 | .05347 | -.38600 | -.33700 | .00890 | 17.16530 | .03928 | .01903 |
| .948 | 1.020 | 10.93000 | 8.88000 | .03000 | .05404 | -.38700 | -.34000 | .00910 | 17.15010 | .04011 | .01919 |
| .948 | 1.930 | 11.38000 | 8.11000 | .03000 | .05376 | -.39400 | -.35000 | .01070 | 17.14510 | .04077 | .02002 |
| .948 | 2.770 | 12.84000 | 7.28000 | .02000 | .05393 | -.40100 | -.35500 | .00830 | 17.12890 | .04141 | .02013 |
| .947 | 3.920 | 14.07000 | 6.22000 | .03000 | .05449 | -.40700 | -.35700 | .00830 | 17.14870 | .04110 | .01989 |
| .946 | 4.930 | 14.94000 | 5.06000 | .03000 | .05581 | -.40400 | -.35300 | .01290 | 17.12790 | .04110 | .01989 |
| | GRADIENT | 1.03392 | -.97035 | .00175 | -.00005 | -.00165 | -.00092 | .00025 | .00106 | .00017 | .00005 |

RUN NO. 275/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|--------|--------|---------|---------|--------|----------|--------|--------|
| .978 | -5.030 | 5.00000 | 15.07000 | .00000 | .06869 | -.46700 | -.42900 | .00560 | 17.13720 | .04750 | .02419 |
| .977 | -4.730 | 4.99000 | 14.46000 | .00000 | .06732 | -.46500 | -.42700 | .00840 | 17.14010 | .04731 | .02409 |
| .976 | -3.890 | 5.52000 | 13.30000 | .00000 | .06562 | -.45800 | -.41900 | .00780 | 17.12290 | .04655 | .02363 |
| .975 | -3.200 | 6.43000 | 12.84000 | .00000 | .06572 | -.45000 | -.40900 | .00850 | 17.12520 | .04573 | .02306 |
| .977 | -2.470 | 6.96000 | 11.90000 | .00000 | .06483 | -.44600 | -.39900 | .00770 | 17.14260 | .04537 | .02250 |
| .977 | -1.500 | 7.61000 | 10.82000 | .00000 | .06442 | -.44600 | -.39600 | .00870 | 17.13990 | .04533 | .02235 |
| .977 | -.790 | 8.38000 | 9.97000 | .00000 | .06404 | -.44700 | -.39700 | .00930 | 17.16220 | .04549 | .02237 |
| .978 | .240 | 9.93000 | 9.44000 | .00000 | .06366 | -.45000 | -.39700 | .00930 | 17.15630 | .04573 | .02258 |
| .977 | 1.280 | 10.71000 | 8.14000 | .00000 | .06350 | -.45000 | -.40000 | .01020 | 17.15810 | .04589 | .02298 |
| .976 | 2.060 | 11.61000 | 7.48000 | .02000 | .06427 | -.45100 | -.40800 | .00840 | 17.16600 | .04629 | .02327 |
| .977 | 2.830 | 12.50000 | 6.84000 | .01000 | .06533 | -.45500 | -.41300 | .00860 | 17.15700 | .04676 | .02369 |
| .977 | 4.160 | 14.05000 | 5.72000 | .01000 | .06719 | -.46000 | -.42000 | .00860 | 17.17670 | .04699 | .02378 |
| .976 | 4.650 | 14.44000 | 5.13000 | .00000 | .06755 | -.46200 | -.42200 | .00710 | 17.14280 | .04699 | .02378 |
| | GRADIENT | 1.03075 | -.97133 | .00106 | .00005 | -.00032 | -.00029 | .00000 | .00364 | .00003 | .00001 |

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 261/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|----------|---------|--------|---------|---------|--------|----------|--------|---------|
| 1.046 | -5.160 | 4.61000 | 14.93000 | -.01000 | .08271 | -.48900 | -.47200 | .00780 | 17.16870 | .04974 | .02660 |
| 1.048 | -4.300 | 5.44000 | 14.04000 | .00000 | .08285 | -.48600 | -.47000 | .00920 | 17.16400 | .04341 | .02649 |
| 1.046 | -3.180 | 6.32000 | 12.70000 | .00000 | .08145 | -.48800 | -.46900 | .01130 | 17.15490 | .04960 | .02645 |
| 1.047 | -2.120 | 7.64000 | 11.89000 | .00000 | .07981 | -.49200 | -.46600 | .01570 | 17.17230 | .05004 | .02629 |
| 1.046 | -1.170 | 8.32000 | 10.67000 | .00000 | .07871 | -.49300 | -.46500 | .01700 | 17.18870 | .05016 | .02620 |
| 1.048 | -.520 | 9.04000 | 10.09000 | .00000 | .07853 | -.48800 | -.46100 | .01500 | 17.16590 | .04964 | .02599 |
| 1.047 | .360 | 10.13000 | 9.40000 | .01000 | .07907 | -.48800 | -.45900 | .01410 | 17.18190 | .04966 | .02589 |
| 1.048 | 1.580 | 11.06000 | 7.90000 | .00000 | .07929 | -.48800 | -.45900 | .01360 | 17.19680 | .04965 | .02590 |
| 1.047 | 1.940 | 11.50000 | 7.71000 | .01000 | .07930 | -.49000 | -.46000 | .01410 | 17.17120 | .04980 | .02591 |
| 1.047 | 2.840 | 12.64000 | 6.95000 | .01000 | .08050 | -.49000 | -.46000 | .01500 | 17.18290 | .04981 | .02592 |
| 1.048 | 3.730 | 13.49000 | 6.02000 | .00000 | .08147 | -.49100 | -.46200 | .01620 | 17.18280 | .04990 | .02604 |
| 1.046 | 4.710 | 14.43000 | 5.00000 | .01000 | .08165 | -.49400 | -.46700 | .01510 | 17.17850 | .05023 | .02631 |
| 1.046 | 4.960 | 14.94000 | 5.00000 | .00000 | .08339 | -.49600 | -.47000 | .01270 | 17.20320 | .05040 | .02647 |
| 1.048 | GRADIENT | 1.02301 | -.98011 | .00067 | .00010 | -.00060 | .00037 | .00029 | .00326 | .00006 | -.00002 |

TABLATFD SOURCE DATA, CALSPAN T18-103 (LA70)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK136) (26 FEB 76)

DATE 04 MAY 76

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000
 BETA = .000 ALPHA = 15.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

RUN NO. 206/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AIRLON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|----------|--------|--------|---------|---------|--------|----------|---------|--------|
| 1.198 | -5.020 | 5.00000 | 15.05000 | .00000 | .10301 | -.35800 | -.34000 | .01460 | 19.75920 | .03641 | .01915 |
| 1.197 | -4.160 | 5.84000 | 14.17000 | .00000 | .10215 | -.35600 | -.33700 | .01710 | 19.39240 | .03622 | .01901 |
| 1.197 | -3.090 | 6.52000 | 12.71000 | .00000 | .10102 | -.35400 | -.33500 | .01740 | 19.10930 | .03601 | .01892 |
| 1.198 | -2.100 | 7.60000 | 11.82000 | .00000 | .10110 | -.35100 | -.33300 | .01460 | 19.19450 | .03568 | .01879 |
| 1.197 | -1.240 | 8.32000 | 10.82000 | .00000 | .10090 | -.34900 | -.33400 | .01700 | 19.72590 | .03546 | .01884 |
| 1.198 | -.550 | 9.13000 | 10.23000 | .00000 | .10082 | -.34500 | -.33400 | .02070 | 18.95570 | .03514 | .01882 |
| 1.198 | .520 | 10.17000 | 9.12000 | .02000 | .10028 | -.34800 | -.33400 | .01740 | 18.79550 | .03536 | .01885 |
| 1.197 | 1.460 | 10.99000 | 8.07000 | .01000 | .10095 | -.34800 | -.33500 | .01770 | 19.33920 | .03539 | .01890 |
| 1.198 | 1.850 | 11.55000 | 7.84000 | .02000 | .10095 | -.35000 | -.33600 | .01390 | 19.01430 | .03565 | .01894 |
| 1.198 | 2.720 | 12.51000 | 7.06000 | .01000 | .10126 | -.35100 | -.33600 | .01930 | 19.51630 | .03569 | .01893 |
| 1.197 | 3.550 | 13.28000 | 6.18000 | .02000 | .10163 | -.35300 | -.33600 | .01720 | 19.45850 | .03589 | .01897 |
| 1.198 | 4.680 | 14.37000 | 5.00000 | .00000 | .10205 | -.35300 | -.33700 | .01760 | 19.52220 | .03594 | .01899 |
| 1.197 | 5.130 | 15.07000 | 4.80000 | .00000 | .10317 | -.35600 | -.33900 | .01850 | 19.77670 | .03621 | .01912 |
| 1.197 | GRADIENT | .99077 | -1.11229 | .00092 | .00003 | .00018 | -.00018 | .00008 | .02055 | -.00002 | .00001 |

DATE 04 MAY 76

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PAGE 385
(SUK137) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

RUN NO. 121/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | ELEVON | CAC |
|------|----------|----------|----------|---------|---------|---------|---------|--------|----------|--------|---------|
| .597 | -4.950 | 5.13000 | 15.03000 | -.02000 | -.01343 | -.31700 | -.29000 | .01090 | 16.70700 | 4.500 | .01639 |
| .597 | -3.890 | 6.21000 | 14.00000 | -.01000 | -.01391 | -.31300 | -.28800 | .01710 | 16.71360 | .000 | .01623 |
| .596 | -3.030 | 6.65000 | 12.73000 | -.01000 | -.01451 | -.30600 | -.28600 | .01820 | 16.71480 | 1.000 | .01616 |
| .597 | -2.710 | 7.24000 | 12.68000 | -.01000 | -.01459 | -.30100 | -.28300 | .01920 | 16.71020 | .000 | .01598 |
| .597 | -1.490 | 8.41000 | 11.40000 | .00000 | -.01466 | -.29700 | -.28100 | .02000 | 16.70730 | 1.000 | .01582 |
| .597 | -.540 | 9.42000 | 10.52000 | .00000 | -.01478 | -.29500 | -.27900 | .01630 | 16.71810 | .000 | .01574 |
| .597 | .560 | 10.63000 | 9.50000 | .00000 | -.01455 | -.29200 | -.27600 | .01670 | 16.71270 | .000 | .01572 |
| .596 | 1.600 | 11.64000 | 8.42000 | .00000 | -.01420 | -.29200 | -.27400 | .01590 | 16.71750 | .000 | .01559 |
| .597 | 2.570 | 12.34000 | 7.69000 | .00000 | -.01412 | -.29000 | -.27500 | .01650 | 16.70150 | .000 | .01546 |
| .597 | 3.480 | 13.90000 | 6.92000 | .00000 | -.01322 | -.29200 | -.27500 | .01990 | 16.71280 | .000 | .01553 |
| .596 | 4.040 | 14.19000 | 6.10000 | .00000 | -.01232 | -.29500 | -.27600 | .01990 | 16.72780 | .000 | .01558 |
| .597 | 5.030 | 15.09000 | 5.03000 | .00000 | -.01244 | -.30100 | -.28000 | .01990 | 16.70760 | .000 | .01577 |
| | GRADIENT | 1.03797 | -.96571 | .00185 | .00010 | .00257 | .00170 | .00027 | .00076 | .00026 | -.00010 |

RUN NO. 101/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | ELEVON | CAC |
|------|----------|----------|----------|--------|--------|---------|---------|--------|----------|--------|---------|
| .897 | -5.070 | 4.95000 | 15.10000 | .00000 | .04111 | -.40500 | -.38200 | .01770 | 16.74440 | 4.500 | .02154 |
| .896 | -4.460 | 5.39000 | 14.31000 | .00000 | .04108 | -.40300 | -.38300 | .01770 | 16.76090 | .000 | .02160 |
| .896 | -3.710 | 6.02000 | 13.45000 | .00000 | .04064 | -.39600 | -.37500 | .01950 | 16.77290 | .000 | .02120 |
| .897 | -3.070 | 6.30000 | 12.45000 | .00000 | .04057 | -.39300 | -.37500 | .01690 | 16.76500 | .000 | .02112 |
| .896 | -1.550 | 7.88000 | 10.99000 | .00000 | .04011 | -.38200 | -.36600 | .01530 | 16.78540 | .000 | .02065 |
| .896 | -1.310 | 7.82000 | 10.45000 | .00000 | .04001 | -.37700 | -.36300 | .01420 | 16.79730 | .000 | .02048 |
| .896 | -.380 | 9.09000 | 9.85000 | .00000 | .03956 | -.37500 | -.36300 | .01520 | 16.76500 | .000 | .02046 |
| .896 | .700 | 10.33000 | 8.99000 | .00000 | .03971 | -.37200 | -.36000 | .01800 | 16.76890 | .000 | .02031 |
| .896 | 1.730 | 11.30000 | 7.83000 | .00000 | .04064 | -.37200 | -.36000 | .01800 | 16.76970 | .000 | .02046 |
| .896 | 2.660 | 12.55000 | 7.21000 | .00000 | .04041 | -.37500 | -.36600 | .01830 | 16.75920 | .000 | .02062 |
| .896 | 3.620 | 13.79000 | 6.15000 | .00000 | .04080 | -.38200 | -.37000 | .01700 | 16.75130 | .000 | .02085 |
| .897 | 4.480 | 14.01000 | 5.03000 | .00000 | .04170 | -.38700 | -.38700 | .01950 | 16.75540 | .000 | .02109 |
| .896 | 4.970 | 14.97000 | 5.02000 | .00000 | .04193 | -.39100 | -.37800 | .01650 | 16.74430 | .000 | .02131 |
| | GRADIENT | 1.03249 | -.97016 | .00000 | .00009 | .00130 | .00042 | .00007 | -.00025 | .00013 | -.00002 |

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
BETA = .000 ALPHA = 20.000
GRIT = 1.000 SPDBRK = 25.000
RUDDER = .000 BOFLAP = .000

(SUK13) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPDBRK = 25.000
 RUDDER = .000 BDFLAP = .000

RUN NO. 180/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|---------|--------|---------|---------|--------|----------|---------|---------|
| .947 | -5.070 | 4.56000 | 15.11000 | .01000 | .04896 | -.47900 | -.43500 | .01220 | 16.85170 | .04867 | .02454 |
| .947 | -4.500 | 5.33000 | 14.33000 | .00000 | .04865 | -.47600 | -.42900 | .01030 | 16.89100 | .04840 | .02420 |
| .948 | -3.320 | 6.35000 | 13.00000 | .00000 | .04881 | -.47400 | -.42600 | .01300 | 16.87460 | .04816 | .02402 |
| .948 | -2.950 | 6.95000 | 12.90000 | .00000 | .04766 | -.46700 | -.41800 | .01920 | 16.86000 | .04754 | .02359 |
| .948 | -2.210 | 7.53000 | 11.96000 | .00000 | .04732 | -.46200 | -.41300 | .01300 | 16.86620 | .04702 | .02328 |
| .947 | -1.210 | 8.49000 | 10.92000 | .00000 | .04772 | -.46400 | -.41100 | .02120 | 16.89860 | .04722 | .02320 |
| .948 | -.570 | 9.21000 | 10.37000 | .00000 | .04801 | -.46500 | -.41300 | .01460 | 16.88290 | .04727 | .02327 |
| .947 | .670 | 10.45000 | 9.09000 | .00000 | .04696 | -.46400 | -.41000 | .01280 | 16.90660 | .04720 | .02310 |
| .948 | 1.480 | 11.19000 | 8.23000 | .02000 | .04734 | -.46300 | -.41600 | .01830 | 16.89530 | .04771 | .02348 |
| .947 | 4.510 | 14.14000 | 5.11000 | -.01000 | .04820 | -.46600 | -.41800 | .02450 | 16.84110 | .04736 | .02358 |
| .948 | 4.980 | 14.98000 | 5.00000 | .03000 | .05120 | -.46800 | -.42500 | .01440 | 16.90080 | .04760 | .02394 |
| | GRADIENT | 1.00174 | -1.00108 | -.00013 | .00014 | .00048 | .00029 | .00061 | .00018 | -.00005 | -.00002 |

RUN NO. 276/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|------|----------|----------|----------|--------|--------|---------|---------|---------|----------|--------|---------|
| .977 | -5.130 | 4.67000 | 14.95000 | .00000 | .06357 | -.50400 | -.46800 | .01690 | 16.95050 | .05128 | .02640 |
| .976 | -4.840 | 5.07000 | 14.75000 | .00000 | .06270 | -.50200 | -.46800 | .01690 | 16.96140 | .05108 | .02638 |
| .976 | -3.360 | 6.17000 | 12.89000 | .00000 | .06258 | -.49900 | -.46600 | .01670 | 16.97240 | .05079 | .02626 |
| .977 | -3.080 | 6.73000 | 12.91000 | .00000 | .06171 | -.49700 | -.46400 | .01330 | 16.98250 | .05053 | .02618 |
| .978 | -2.140 | 7.57000 | 11.85000 | .00000 | .06115 | -.49700 | -.46500 | .01390 | 16.99580 | .05056 | .02619 |
| .973 | -1.190 | 8.30000 | 10.69000 | .00000 | .06235 | -.49700 | -.46500 | .01330 | 17.02150 | .05059 | .02624 |
| .977 | -.500 | 9.14000 | 10.15000 | .01000 | .06213 | -.48700 | -.45300 | .01370 | 17.02470 | .04956 | .02552 |
| .977 | .280 | 10.07000 | 9.50000 | .00000 | .06115 | -.49000 | -.45200 | .01460 | 17.02590 | .04988 | .02548 |
| .977 | 1.270 | 10.86000 | 8.32000 | .00000 | .06259 | -.49200 | -.45200 | .01460 | 17.02930 | .05002 | .02549 |
| .976 | 1.800 | 11.34000 | 7.74000 | .00000 | .06253 | -.49000 | -.44700 | .01480 | 17.02060 | .04988 | .02521 |
| .976 | 2.760 | 12.46000 | 6.92000 | .01000 | .06263 | -.49700 | -.44700 | .01690 | 17.01360 | .05052 | .02522 |
| .978 | 3.810 | 13.57000 | 5.94000 | .01000 | .06404 | -.49900 | -.45200 | .01460 | 17.00620 | .05076 | .02551 |
| .977 | 4.580 | 14.21000 | 5.03000 | .01000 | .06435 | -.50400 | -.45400 | .01230 | 17.00560 | .05128 | .02561 |
| .976 | 4.970 | 14.92000 | 4.97000 | .00000 | .06502 | -.50400 | -.45400 | .01170 | 16.99300 | .05125 | .02560 |
| | GRADIENT | 1.00197 | -1.00055 | .00076 | .00025 | -.00024 | .00189 | -.00022 | .00349 | .00002 | -.00010 |

DATE 04 MAY 76

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TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)

(SUK137) (26 FEB 76)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

RN/L = 4.500 ELE/ON = 10.000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPOBRK = 25.000
 RUDDER = .000 BOFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

RUN NO. 262/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | AILRON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|----------|---------|--------|--------|--------|--------|----------|---------|---------|
| 1.047 | -4.970 | 5.06000 | 15.01000 | -0.1000 | .07956 | -55800 | -54200 | .00550 | 17.10790 | .05678 | .03057 |
| 1.048 | -4.380 | 5.15000 | 13.92000 | -0.1000 | .07772 | -55600 | -53700 | .00720 | 17.08560 | .05659 | .03029 |
| 1.048 | -3.090 | 5.68000 | 12.87000 | -0.2000 | .07681 | -54500 | -52500 | .01040 | 17.09620 | .05551 | .02961 |
| 1.047 | -2.270 | 7.35000 | 11.89000 | -0.1000 | .07603 | -54500 | -52300 | .00790 | 17.10150 | .05540 | .02946 |
| 1.048 | -1.490 | 7.96000 | 10.94000 | .00000 | .07538 | -54100 | -52000 | .00530 | 17.08990 | .05505 | .02930 |
| 1.047 | -.510 | 8.91000 | 9.94000 | .00000 | .07517 | -54200 | -52000 | .00720 | 17.10620 | .05513 | .02929 |
| 1.047 | .430 | 10.24000 | 9.37000 | .00000 | .07526 | -54000 | -51700 | .00770 | 17.10280 | .05494 | .02916 |
| 1.049 | 1.530 | 10.99000 | 7.92000 | .00000 | .07543 | -53700 | -51500 | .00970 | 17.10480 | .05466 | .02901 |
| 1.046 | 2.250 | 12.95000 | 7.55000 | .00000 | .07544 | -54100 | -51800 | .01130 | 17.09770 | .05499 | .02917 |
| 1.048 | 3.050 | 12.91000 | 6.80000 | .00000 | .07700 | -53700 | -51500 | .01250 | 17.11460 | .05461 | .02904 |
| 1.049 | 4.220 | 14.31000 | 5.87000 | .00000 | .07790 | -54000 | -51900 | .01260 | 17.12030 | .05490 | .02925 |
| 1.048 | 4.890 | 14.76000 | 4.96000 | .01000 | .07962 | -54200 | -52500 | .00490 | 17.11230 | .05511 | .02960 |
| 1.048 | GRADIENT | 1.02059 | -.98173 | .00189 | .00000 | .00161 | .00178 | .00033 | .00200 | -.00017 | -.00010 |

TABLATED SOURCE DATA, CALSPAN T18-103 (LA70)
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK138) (26 FEB 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000
 BETA = .000 ALPHA = 20.000
 GRIT = 1.000 SPDRK = 25.000
 RUDDER = .000 BOFLAP = .000

| MACH | AILLON | ELVN-L | ELVN-R | BETA | CAF | CPB | CPC | CBLRMS | XCP | CAB | CAC |
|-------|----------|----------|----------|---------|--------|---------|---------|--------|----------|---------|---------|
| 1.197 | -5.030 | 5.03000 | 15.09000 | .00000 | .08559 | -.44100 | -.42700 | .01250 | 17.13970 | .04490 | .02410 |
| 1.198 | -3.560 | 6.43000 | 13.56000 | .00000 | .08356 | -.44100 | -.42400 | .02140 | 17.15080 | .04485 | .02388 |
| 1.197 | -2.930 | 7.03000 | 12.91000 | .00000 | .08291 | -.44100 | -.42300 | .02070 | 17.16010 | .04481 | .02384 |
| 1.199 | -1.990 | 7.97000 | 11.95000 | -.01000 | .08189 | -.43500 | -.41800 | .01540 | 17.15970 | .04429 | .02358 |
| 1.197 | -1.120 | 8.61000 | 10.87000 | .00000 | .08129 | -.43600 | -.41800 | .01460 | 17.15330 | .04432 | .02358 |
| 1.198 | -.300 | 9.60000 | 10.21000 | .00000 | .08126 | -.43300 | -.41400 | .01460 | 17.16400 | .04404 | .02335 |
| 1.197 | .450 | 10.41000 | 9.50000 | .00000 | .08109 | -.43400 | -.41400 | .01980 | 17.16610 | .04411 | .02336 |
| 1.198 | 1.490 | 11.10000 | 8.11000 | .01000 | .08143 | -.43200 | -.41200 | .01590 | 17.16240 | .04399 | .02325 |
| 1.197 | 2.000 | 11.98000 | 7.87000 | .01000 | .08182 | -.43300 | -.41300 | .01820 | 17.16230 | .04404 | .02326 |
| 1.197 | 2.770 | 12.60000 | 7.05000 | .01000 | .08227 | -.43300 | -.41200 | .01810 | 17.15980 | .04409 | .02324 |
| 1.198 | 3.900 | 13.91000 | 6.10000 | .01000 | .08268 | -.43500 | -.41400 | .01670 | 17.14250 | .04423 | .02334 |
| 1.197 | 4.800 | 14.36000 | 4.75000 | .02000 | .08420 | -.43500 | -.41800 | .02210 | 17.15950 | .04429 | .02354 |
| 1.197 | 5.080 | 15.08000 | 4.92000 | .01000 | .08588 | -.43700 | -.42300 | .01180 | 17.17240 | .04444 | .02386 |
| 1.197 | | .97358 | -1.03901 | .00253 | .00005 | .00073 | .00103 | .00004 | -.00015 | -.00007 | -.00006 |
| | GRADIENT | | | | | | | | | | |

RUN NO. 205/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00