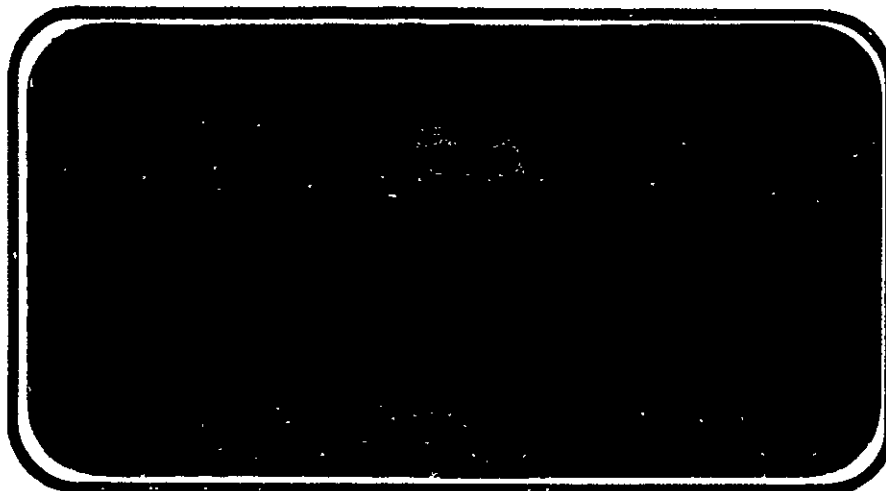




NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA CR-

141830



(NASA-CR-141830) HEAT TRANSFER TESTS ON A
0.01-SCALE ROCKWELL CONFIGURATION 3 SPACE
SHUTTLE ORBITER AND TANK. (37-OT) IN THE
CALSPAN 48-INCH HYPERSONIC SHOCK TUNNEL
(OH12/IH21), VOLUME 3 (Chrysler Corp.)

N76-16143

HC \$11.75

Unclas

63/18 09601

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services



October, 1975

DMS-DR-2164
NASA CR-141,830

VOLUME 3 OF 3

HEAT TRANSFER TESTS ON A 0.01-SCALE
ROCKWELL CONFIGURATION 3 SPACE SHUTTLE ORBITER
AND TANK (37-OT) IN THE CALSPAN 48-INCH
HYPERSONIC SHOCK TUNNEL (OH12/IH21)

by

M. Kotch
Shuttle Aero Sciences
Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: Calspan 48 HST-173-100
NASA Series Number: OH12/IH21
Model Number: 37-0T
Test Dates: October 29 through December 15, 1973

FACILITY COORDINATOR:

Ed Heustis
Calspan Corporation
P. O. Box 235
Buffalo, New York 14221

Phone: (716) 632-7500

PROJECT ENGINEER:

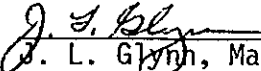
M. Kotch
Rockwell International
Space Division
12214 Lakewood Blvd.
Downey, California 90241


Phone: (213) 922-1463

DATA MANAGEMENT SERVICES:

Prepared by: Liaison--D. A. Sarver
Operations--W. B. Meinders

Reviewed by: D. E. Pouchèr

Approved: 
J. L. Glynn, Manager
Data Operations

Concurrence: 
N. D. Kemp, Manager
Data Management Services

Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

HEAT TRANSFER TESTS ON A 0.01-SCALE
ROCKWELL CONFIGURATION 3 SPACE SHUTTLE ORBITER AND
TANK (37-OT) IN THE CALSPAN 48-INCH
HYPERSONIC SHOCK TUNNEL (OH12/IH21)

by

M. Kotch, Rockwell International Space Division

ABSTRACT

This report presents model information and data from wind tunnel tests conducted on 0.01-scale models of the Rockwell Space Shuttle Orbiter and External Tank. These tests were conducted in the Calspan 48" Hypersonic Shock Tunnel to determine heating rates on ascent and re-entry configurations at various Reynolds numbers, Mach numbers and angles of attack.

(THIS PAGE INTENTIONALLY LEFT BLANK.)

TABLE OF CONTENTS

| | Page |
|--|------|
| ABSTRACT | iii |
| INDEX OF MODEL FIGURES | 2 |
| INDEX OF DATA FIGURES | 3 |
| INTRODUCTION | 7 |
| NOMENCLATURE | 8 |
| CONFIGURATIONS INVESTIGATED | 11 |
| MODEL INSTRUMENTATION | 13 |
| TEST FACILITY DESCRIPTION | 15 |
| TEST PROCEDURE | 17 |
| DATA REDUCTION | 18 |
| REFERENCES | 20 |
| TABLES | |
| I. TEST CONDITIONS | 21 |
| II. DATASET/RUN NUMBER COLLATION SUMMARY | 22 |
| III. MODEL DIMENSIONAL DATA | 23 |
| IV. HEAT TRANSFER GAGE LOCATIONS | 33 |
| FIGURES | |
| MODEL | 35 |
| DATA | 53 |
| VOLUME 1--Figures 4-17 | |
| VOLUME 2--Figures 18-35 | |
| APPENDIX | |
| TABULATED SOURCE DATA | 53 |
| VOLUME 3 | |

INDEX OF MODEL FIGURES

| Figure | Title | Page |
|--------|--|------|
| 1. | Configuration 3 Orbiter/ET | 35 |
| 2. | Model Instrumentation | |
| | a. Model 37-T Instrumentation Locations | 36 |
| | b. 37-0 Instrumentation Locations | 37 |
| 3. | Model Photographs | |
| | a. Installation of Model 37-0 - Orbiter Alone | 38 |
| | b. Installation of Model 37-0T - Orbiter/Tank | 39 |
| | c. Instrumentation - Orbiter Top View | 40 |
| | d. Instrumentation - Orbiter Bottom Surface | 41 |
| | e. Instrumentation - Orbiter Nose and Canopy | 42 |
| | f. Instrumentation - Orbiter Wing Leading Edge | 43 |
| | g. Instrumentation - Tank Top View | 44 |
| | h. Instrumentation - Tank Nose | 45 |
| | i. Instrumentation - Tank Forward Attachment Strut | 46 |
| | j. Instrumentation - Tank Aft Attachment Struts - Side View | 47 |
| | k. Instrumentation - Tank Aft Attachment Struts - Top View | 48 |
| | l. Sample Schlieren, Tank Alone, Run 4, $\alpha = 0^\circ$, $M_\infty = 6.99$, $R_e/ft = 0.12 \times 10^6$ | 49 |
| | m. Sample Schlieren, Orbiter Alone, Run 25, $\alpha = 30^\circ$, $M_\infty = 7.92$, $R_e/ft = 7.55 \times 10^6$ | 50 |
| | n. Sample Schlieren, Orbiter/Tank, Run 27, $\alpha = 0^\circ$, $M_\infty = 7.61$, $R_e/ft = 1.20 \times 10^6$ | 51 |

INDEX OF DATA FIGURES

| FIGURE NUMBER | TITLE | CONDITIONS VARYING | PLOTTED COEFFICIENTS SCHEDULE | PAGES |
|-----------------|--|----------------------|-------------------------------|---------|
| <u>VOLUME 1</u> | | | | |
| 4 | EFFECT OF RECOVERY FACTOR ON THE E. TANK HEAT TRANSFER RN/L1 ALPHA = 0 | HAW/HT PHI, MACH | A | 1-104 |
| 5 | EFFECT OF RECOVERY FACTOR ON THE EXTERNAL TANK HEAT TRANSFER ALPHA = 5 | HAW/HT PHI, MACH | A | 105-128 |
| 6 | EFFECT OF RECOVERY FACTOR ON E. TANK HEAT TRANSFER WITHOUT PROTUBERANCES | HAW/HT PHI, MACH | A | 129-152 |
| 7 | EFFECT OF PROTUBERANCES ON THE EXTERNAL TANK HEAT TRANSFER ALPHA = 0 | PHI HAW/HT | A | 153-184 |
| 8 | EFFECT OF RECOVERY FACTOR ON THE ORBITER BODY HEAT TRANSFER ALPHA = 0 | HAW/HT PHI, MACH | A | 185-236 |
| 9 | EFFECT OF RECOVERY FACTOR ON THE ORBITER WING HEAT TRANSFER ALPHA = 0 | HAW/HT 2Y/B, MACH | B | 237-314 |
| 10 | EFFECT OF RECOVERY FACTOR ON THE ORBITER TAIL HEAT TRANSFER ALPHA = 0 | HAW/HT MACH | C | 315-327 |
| 11 | EFFECT OF RECOVERY FACTOR ON THE ORBITER BODY HEAT TRANSFER ALPHA = 5 | HAW/HT PHI | A | 328-339 |
| 12 | EFFECT OF RECOVERY FACTOR ON THE ORBITER WING HEAT TRANSFER ALPHA = 5 | HAW/HT 2Y/B | B | 340-357 |
| 13 | EFFECT OF RECOVERY FACTOR ON THE ORBITER TAIL HEAT TRANSFER ALPHA = 5 | HAW/HT | C | 358-360 |
| 14 | EFFECT OF RECOVERY FACTOR ON THE E. TANK HEAT TRANSFER RN/L2 ALPHA = 0 | HAW/HT PHI | D | 361-376 |

INDEX OF DATA FIGURES (Continued)

| FIGURE NUMBER | TITLE | CONDITIONS VARYING | PLOTTED COEFFICIENTS SCHEDULE | PAGES |
|------------------|--|-----------------------------|-------------------------------------|---------|
| 15 | EFFECT OF RECOVERY FACTOR ON THE ORBITER BODY HEAT TRANSFER ALPHA = 0 | HAW/HT PHI | D | 377-380 |
| 16 | EFFECT OF RECOVERY FACTOR ON THE ORBITER WING HEAT TRANSFER ALPHA = 0 | HAW/HT 2Y/B | E | 381-386 |
| 17 | EFFECT OF RECOVERY FACTOR ON THE ORBITER TAIL HEAT TRANSFER ALPHA = 0 | HAW/HT | F | 387-387 |
| <u>VOLUME 2</u> | | | | |
| 18 | EFFECT OF LOW ALPHA ON UNDISTURBED ORBITER BODY HEAT TRANSFER RN/L1 | PHI, ALPHA HAW/HT, MACH | D | 388-435 |
| 19 | EFFECT OF LOW ALPHA ON UNDISTURBED ORBITER WING HEAT TRANSFER RN/L1 | 2Y/B, ALPHA HAW/HT, MACH | E | 436-507 |
| 20 | EFFECT OF LOW ALPHA ON UNDISTURBED ORBITER TAIL HEAT TRANSFER RN/L1 | HAW/HT ALPHA, MACH | F | 508-519 |
| 21 | EFFECT OF HIGH ALPHA ON UNDISTURBED ORBITER BODY HEAT TRANSFER RN/L1 | PHI, ALPHA HAW/HT, MACH | D | 520-603 |
| 22 | EFFECT OF HIGH ALPHA ON UNDISTURBED ORBITER WING HEAT TRANSFER RN/L1 | 2Y/B, ALPHA HAW/HT, MACH | E | 604-729 |
| 23 | EFFECT OF HIGH ALPHA ON UNDISTURBED ORBITER TAIL HEAT TRANSFER RN/L1 | HAW/HT ALPHA, MACH | F | 730-750 |
| 24 | EFFECT OF HIGH ALPHA ON UNDISTURBED ORBITER BODY HEAT TRANSFER RN/L3 | PHI, ALPHA HAW/HT, MACH | D | 751-774 |
| 25 | EFFECT OF HIGH ALPHA ON UNDISTURBED ORBITER WING HEAT TRANSFER RN/L3 | 2Y/B, ALPHA HAW/HT, MACH | E | 775-810 |

INDEX OF DATA FIGURES (Continued)

| FIGURE NUMBER | TITLE | CONDITIONS VARYING | PLOTTED COEFFICIENTS SCHEDULE | PAGES |
|------------------|---|----------------------------|-------------------------------------|-----------|
| 26 | EFFECT OF HIGH ALPHA ON UNDISTURBED ORBITER TAIL HEAT TRANSFER RN/L3 | HAW/HT ALPHA, MACH | F | 811-816 |
| 27 | EFFECT OF REYNOLDS NO. ON UNDISTURBED ORBITER BODY HEAT TRANSFER ALPHA = 25 | PHI, RN/L HAW/HT, MACH | D | 817-840 |
| 28 | EFFECT OF REYNOLDS NO. ON UNDISTURBED ORBITER WING HEAT TRANSFER ALPHA = 25 | 2Y/B, RN/L HAW/HT, MACH | E | 841-876 |
| 29 | EFFECT OF REYNOLDS NO. ON UNDISTURBED ORBITER TAIL HEAT TRANSFER ALPHA = 25 | HAW/HT RN/L, MACH | F | 877-882 |
| 30 | EFFECT OF REYNOLDS NO. ON UNDISTURBED ORBITER BODY HEAT TRANSFER ALPHA = 30 | PHI, RN/L HAW/HT, MACH | D | 883-906 |
| 31 | EFFECT OF REYNOLDS NO. ON UNDISTURBED ORBITER WING HEAT TRANSFER ALPHA = 30 | 2Y/B, RN/L HAW/HT, MACH | E | 907-942 |
| 32 | EFFECT OF REYNOLDS NO. ON UNDISTURBED ORBITER TAIL HEAT TRANSFER ALPHA = 30 | HAW/HT RN/L, MACH | F | 943-948 |
| 33 | EFFECT OF REYNOLDS NO. ON UNDISTURBED ORBITER BODY HEAT TRANSFER ALPHA = 35 | PHI, RN/L HAW/HT, MACH | D | 949-972 |
| 34 | EFFECT OF REYNOLDS NO. ON UNDISTURBED ORBITER WING HEAT TRANSFER ALPHA = 35 | 2Y/B, RN/L HAW/HT, MACH | E | 973-1008 |
| 35 | EFFECT OF REYNOLDS NO. ON UNDISTURBED ORBITER TAIL HEAT TRANSFER ALPHA = 35 | HAW/HT RN/L, MACH | F | 1009-1014 |

INDEX OF DATA FIGURES (Concluded)

PLOTTED COEFFICIENTS SCHEDULE:

- A) $H/HREF$ versus X/L and HI/HU versus X/L
- B) $H/HREF$ versus X/C and HI/HU versus X/C
- C) $H/HREF$ versus Z/BV and HI/HU versus Z/BV
- D) $H/HREF$ versus X/L
- E) $H/HREF$ versus X/C
- F) $H/HREF$ versus Z/BV

INTRODUCTION

A 0.01-scale orbiter/external tank heat transfer model (number 37-0T) was tested in the Calspan 48" Hypersonic Shock Tunnel from October 29 through December 15, 1973. The NASA/Rockwell designation for this test was OH12/IH21, and the Calspan facility test number was I73-100.

The purpose of this test was to determine ascent and entry heat transfer rates for the external tank and the Configuration 3 Orbiter over a range of Mach numbers from 6.95 to 19.5 and Reynolds numbers/foot from 0.0095×10^6 to 6.5×10^6 . Of particular interest was the determination of orbiter wing leading edge heating during entry, with both laminar and turbulent boundary layer conditions.

A total of 58 good program runs was made out of 73 attempts. Fifteen runs were no good because of facility malfunction or off scale heating rate data. This test is also documented in Reference 2 (a Calspan Technical Report).

NOMENCLATURE

| <u>Symbol</u> | <u>Plot Symbol</u> | <u>Definition</u> |
|---------------|--------------------|--|
| b | B | wing span, inches |
| c | C | local wing chord, inches |
| C_h | | Stanton number $\frac{778 \dot{q}_w}{\rho_\infty U_\infty (rH_o - H_w)}$ |
| h | H | heat-transfer coefficient, $778 (32.17) \dot{q}/(rH_o - H_w)$, lbm/ft ² sec |
| H | | Enthalpy, ft. lbs/slug |
| L | L | fuselage length, inches |
| M | MACH | Mach number |
| OMS | | Orbital Maneuvering System |
| P | P | Pressure, psia |
| P_r | | Prandtl number |
| q | | Dynamic pressure, psia |
| \dot{q} | QDOT | heat transfer rate, BTU/ft ² sec |
| RCS | | reaction control system |
| r | HAW/HT | recovery factor |
| R_e/ft | RE/FT | Reynolds number per unit length, $\frac{\rho_\infty U_\infty}{\mu_\infty}$ |
| S | | wing span, inches |
| T | T | temperature, °R |
| t | | time, seconds |
| U | | velocity, ft/sec |
| X | X | longitudinal distance, inches |
| Y | Y | spanwise distance, inches |

NOMENCLATURE (Continued)

| <u>Symbol</u> | <u>Plot Symbol</u> | <u>Definition</u> |
|-----------------|--------------------|--|
| Z | Z | vertical distance, inches |
| α | ALPHA | angle of attack, degrees |
| β | BETA | angle-of sideslip, degrees |
| γ | | specific heat ratio |
| μ | | absolute viscosity, slugs/ft-sec |
| ρ | | density, slugs/ft ³ |
| ϕ | PHI | Orbiter and external tank fuselage angular coordinate, deg. measured clockwise looking forward, 0 degrees at bottom centerline |
| o | | nozzle supply conditions |
| o' | | stagnation conditions behind a normal shock |
| 1 | | initial driven gas condition |
| ms | | model station |
| 4 | | gas conditions behind reflected shock |
| i | | incident shock in driven gas |
| ts | | test section initial conditions |
| w | | initial conditions at model surface |
| ∞ | | free stream or test section conditions |
| H _{aw} | HAW | adiabatic wall enthalpy |
| H _t | HT | free stream total enthalpy |

NOMENCLATURE (Concluded)

| <u>Symbol</u> | <u>Plot Symbol</u> | <u>Definition</u> |
|---------------|---------------------------|--|
| h_{ref} | HREF | reference heat-transfer coefficient, value obtained at stagnation point on a one foot diameter sphere |
| h/h_{ref} | H/HREF | ratio of model heat-transfer coefficient to heat-transfer coefficient of reference sphere for $H_{aw}/H_t = X.XXX$ |
| | HI/HU | interference to undisturbed heat transfer coefficient ratio |
| | X/C | chordwise location, fraction of local chord |
| | X/L | longitudinal location, fraction of body length |
| | 2Y/B | spanwise location, fraction of semi-span |
| | Z/BV | spanwise location on vertical tail, fraction of exposed span |
| | RN/L | Reynolds number per unit length |
| | RN/L1, RN/L2, RN/L3 | designates the Reynolds number schedule defined by table I |

CONFIGURATIONS INVESTIGATED

Model 37-0T is a 0.01-scale model of the Space Shuttle configuration 3 Orbiter and external tank constructed of 17-4 PH stainless steel. The orbiter is a sting mounted full-span model, with OMS/RCS pods. The external tank is equipped with removable protuberances (lines and attachment struts) and was mounted on a separate sting which was either coupled with the orbiter sting or mounted separately on the tunnel support fixture. The figures and photographs at the back of this text illustrate orbiter and external tank details. Model 37-0T was designed and built by Grumman Aerospace Corp. with instrumentation built and installed by Calspan Corporation.

Model nomenclature used for the configuration 3 Orbiter and external tank was as follows:

| | |
|------------------|-------------------------------------|
| B ₁₇ | Orbiter body |
| C ₇ | Canopy |
| E ₂₂ | Elevon |
| F ₅ | Body flap |
| M ₄ | OMS pod |
| R ₅ | Rudder |
| T ₁₀ | External tank |
| T ₁₆ | External tank without protuberances |
| V ₇ | Vertical tail |
| W ₁₀₃ | Wing |

Model dimensional data are given in Table III. Table II outlines model configurations and tunnel conditions investigated. The following configuration notation is used:

CONFIGURATIONS INVESTIGATED (Concluded)

O = Orbiter = B₁₇ C₇ E₂₂ F₅ M₄ R₅ V₇ W₁₀₃

T = external tank = T₁₀

T-NP = external tank without protuberances, support structure, or
lines = T₁₆

MODEL INSTRUMENTATION

Model instrumentation for 37-0T consisted of 158 thin-film heat transfer gages. Ninety-eight (98) of these gages were on the orbiter, the remaining sixty (60) were on the external tank. Orbiter and tank gage locations are illustrated in figure 2 and tabulated in Table IV. Photographs in figure 3 may clarify questions about gauge locations.

The thin-film gages consisted of a platinum film fused to a pyrex insulating substrate and protected from the free stream by a thin dielectric coating of magnesium fluoride. Transient surface temperature is determined by measuring the instantaneous gage resistance change which varied linearly with temperature. An excellent description of thin-film gage theory and operation can be found in Reference 1.

Tunnel conditions were determined by quick-response pressure transducers and a reference stagnation heat-transfer gage.

Data acquisition equipment, provided by Calspan, consisted of the Calspan NAVCOR 48-channel data acquisition system, one 14-channel high-speed FM tape recorder, and twenty-two 2-channel recording oscilloscopes. The NAVCOR system provided both a temperature and heat-transfer rate history for each channel, while the oscilloscopes recorded only heat-transfer rate. This rate was derived from an analog network which converted the gage temperature signal to a heat transfer rate signal. The tape recorder was used only as a temporary storage of temperature histories and was input into the NAVCOR following each run for a record of temperature and heat transfer rate.

ORIGINAL PAGE IS
OF POOR QUALITY

MODEL INSTRUMENTATION (Concluded)

Additional instrumentation consisted of a tunnel Schlieren photograph system, which provided qualitative flow information for each run. Sample Schlieren photographs are included in figure 3.

TEST FACILITY DESCRIPTION

The 48-inch Hypersonic Shock Tunnel (HST) employs a constant-area shock tube with an 8-inch inner diameter. The driver tube is 20 feet long and is externally heated by a resistance heater to temperatures of 1400° R. The driven tube is 50 feet long. The driver gas is generally a mixture of helium and nitrogen with a maximum helium purity of 100% while the driven gas is generally air. Steady-flow test times of duration sufficient to permit accurate measurement of the various parameters of interest are achieved with the tailored-interface technique.

Three axisymmetric nozzles are available to expand the test gas to high velocities:

| <u>Nozzle</u> | <u>Type</u> | <u>Exit Diameter in inches</u> | <u>Test Section Mach Number</u> |
|---------------|-------------------------|------------------------------------|-------------------------------------|
| A | Contoured | 24 | 5.5 to 8 |
| D | Contoured | 48 | 10 to 16 |
| E | 10-1/2° Semi-angle cone | 48 | 9 to 20 |

The contoured nozzles provide parallel flow with no pressure gradients in the streamwise direction for several feet. This is very important since the presence of a streamwise pressure gradient can have a significant effect on model test results. The nozzles employ replaceable throat inserts of different diameters so that with the particular nozzle, the test Mach number can be varied. Test air passes downstream of the test section into a receiver tank of a size sufficient to maintain the desired flow for durations of 5 to 13 milliseconds. All nozzles have been calibrated using pitot-pressure survey rakes over the Mach number range indicated.

TEST FACILITY DESCRIPTION (Concluded)

The Test Section is equipped with two 16-inch diameter Schlieren windows mounted a short distance aft of the nozzle exit.

TEST PROCEDURE

Model 37-0T was mounted via the model sting(s) to the tunnel support fixture at the tunnel centerline. Instrumentation wiring was routed through the base stings to a tunnel instrumentation patch panel. Figures 2a and b show the orbiter alone and the second stage configuration installations, respectively.

A typical test procedure was as follows:

1. Set model angles-of-attack, if necessary.
2. Install tunnel diaphragms and proper tunnel nozzle orifice.
3. Evacuate test section, set instrumentation gains and calibrate oscilloscopes from heating rate estimates, and check gage resistances for weak or damaged gages.
4. Close driver and load driven tube for proper test conditions. Take no-flow Schlieren picture.
5. Load driver to proper mixture and pressure for test conditions.
6. Fire tunnel for run.
7. Evacuate test section for post-run gage checks, then bring test section to atmosphere and break tunnel joints. Read out data.
8. Clean tunnel and inspect model.

ORIGINAL PAGE IS
OF POOR QUALITY

DATA REDUCTION

Data for this test were reduced according to standard Calspan data reduction procedures. NAVCOR recordings and Polaroid film oscilloscope records of heat transfer rates were made available after each run. Following the test, all data records were read and assembled for computerized data reduction.

This report contains a listing of heat transfer coefficient H/H_{REF} and heat transfer rate Q_{DOT} . H/H_{REF} values are presented for three recovery factors $r = .85, .9$ and 1.0 . Plotted data illustrate the effect of recovery factor, angle of attack and Reynolds number on heat transfer. The postscript on RN/L indicates the Reynolds number schedule defined by table I. Heat transfer changes between undisturbed and mated configurations is illustrated by H_I/H_U plots. The plotted and tabulated data are arranged in the following manner:

| VOLUME NO. | CONTENTS |
|------------|---|
| 1 | Plots showing the effect of recovery factor on orbiter and external tank heat transfer for both undisturbed and mated configurations. Figure 4 through Figure 17 |
| 2 | Plots showing the effect of angle of attack and Reynolds number on the undisturbed orbiter heat transfer Figure 18 through Figure 35 |

DATA REDUCTION (Concluded)

VOLUME
NO.

3 Tabular listing of source data

H/HREF ~ heat transfer coefficient data

| Component | Fourth Character* | Page |
|---|----------------------|---------|
| orbiter fuselage | B | 1 |
| orbiter wing | W | 75 |
| orbiter vertical tail | V | 180 |
| orbiter wing leading edge (see Detail A fig. 2b) | A | 219 |
| orbiter wing leading edge (see Detail B fig. 2b) | C | 254 |
| external tank | T | 323 |
| QDOT ~ heat transfer rate is arranged in the same manner | | 365-512 |

* The fourth character in each dataset identifier (i.e., RUGBXX, B for Fuselage) represents the individual component.

REFERENCES

1. Vidal, R. J., "Model Instrumentation Techniques for Heat Transfer and Force Measurements in a Hypersonic Shock Tunnel," Cornell Aeronautical Laboratory Report No. AD-917-A-7, February, 1956.
2. Patten, J. S., "An Experimental Investigation of the Ascent and Descent Heating on a 0.01-Scale Model of the Space Shuttle," Calspan Technical Report, March, 1974.
3. Foust, J. W., "Pretest Information for Testing the 0.010-Scale Space Shuttle Heat Transfer Model 37-0T in the Calspan Hypersonic Shock Tunnel," SD73-SH-0198, dated July 11, 1973.

TABLE I.

| TEST : OH-12, IH-21 | | DATE : 5/3/74 | |
|------------------------|---|---------------------------------------|---|
| TEST CONDITIONS | | | |
| MACH NUMBER | REYNOLDS NUMBER (per unit length) ($1/ft$) | DYNAMIC PRESSURE (pounds/sq. inch) | STAGNATION TEMPERATURE (degrees Rankine) |
| 6.95 | 0.10×10^6 | 1.35 | 5575 |
| 7.6 | 1.19×10^6 | 2.75 | 2000 |
| 7.9 | 6.5×10^6 | 10.2 | 1550 |
| 8.0 | 1.19×10^6 | 3.22 | 2600 |
| 10.2 | 2.0×10^6 | 4.03 | 2725 |
| 10.5 | 0.86×10^6 | 2.71 | 3200 |
| 12.0(sch 1) | 0.20×10^6 | 0.73 | 3925 |
| 12.0(sch 3) | 0.86×10^6 | 0.26 | 3475 |
| 15.6(sch 1) | 0.035×10^6 | 0.07 | 3650 |
| 15.6(sch 3) | 0.20×10^6 | 0.36 | 3500 |
| 18.5 | 0.0095×10^6 | 0.017 | 4400 |
| 19.5 | 0.035×10^6 | 0.065 | 4650 |
| 15.6(sch 2) | 0.3×10^6 | 0.61 | 3841 |
| | | | |
| | | | |
| | | | |
| BALANCE UTILIZED _____ | | | |
| | CAPACITY | ACCURACY | COEFFICIENT TOLERANCE: |
| NF | _____ | _____ | _____ |
| SF | _____ | _____ | _____ |
| AF | _____ | _____ | _____ |
| PM | _____ | _____ | _____ |
| RM | _____ | _____ | _____ |
| YM | _____ | _____ | _____ |
| COMMENTS: | | | |

ORIGINAL PAGE IS
OF POOR QUALITY

TABLE II.

| TEST: <u>OH2 / IH21</u> | | DATA SET RUN NUMBER COLLATION SUMMARY | | | | | | DATE <u>6-17-75</u> | | | | | | | | |
|-------------------------|-----------------|---------------------------------------|---------|-------------------|------------|------------|--|---------------------|-------|-----|------|------|----------|------|-------|-------|
| DATA SET IDENTIFIER | CONFIGURATION | SCHD. | | PARAMETERS/VALUES | | NO OF RUNS | MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) | | | | | | | | | |
| | | α | β | RN/L SCH | T/C HOORUP | | 7.0 | 7.61 | 7.9 | 8.0 | 10.5 | 12.2 | 15.8 | 18.3 | 19.1 | |
| RUG001 | <u>37 T</u> | 0 | 0 | 1 | T | 5 | 4 | 2 | | | | | 73 | | 49 | 48 |
| 02 | ↓ | 5 | T | | T | 1 | | | | | | | | | | 50 |
| 03 | <u>37 T-NP</u> | 0 | | | T | 1 | | | | | | | | | 51 | |
| 04 | <u>37 OT-NP</u> | 0 | | | Φ/T | 2 | | | | | | | | | 36/35 | |
| 05 | <u>37 OT</u> | 0 | | | Φ/T | 8 | 28/31 | 27/30 | | | | | | | 37/34 | 38/32 |
| 06 | ↓ | 5 | | | Φ/T | 2 | | | | | | | | | | 39/33 |
| 07 | <u>37 O</u> | 0 | | | Φ | 5 | 5 | 8 | | | | | 52 | | 42 | 41 |
| 08 | | 5 | | | | 1 | | | | | | | | | | 40 |
| 09 | | 10 | | | | 1 | | | | | | | | | 43 | |
| 10 | | 25 | | | | 7 | 9 | | 26 | 10 | 53 | 55 | 57 | | | 44 |
| 11 | | 30 | | | | 7 | 12 | | 14,25 | | 63 | 61 | 62 | | | 46 |
| 12 | | 35 | | | | 7 | 20 | | 22 | 21 | 64 | 67 | 65 | | | 47 |
| 13 | ↓ | 40 | | ↓ | ↓ | 2 | | | 24 | 23 | | | | | | |
| 14 | <u>37-OT</u> | 0 | | 2 | Φ/T | 3 | | | | | | | 70/71,72 | | | |
| 15 | <u>37 O</u> | 25 | | 3 | Φ | 2 | | | | | | | 54 | 56 | | |
| 16 | ↓ | 30 | | ↓ | ↓ | 2 | | | | | | | 58 | 60 | | |
| 17 | ↓ | 35 | | ↓ | ↓ | 2 | | | | | | | 68 | 66 | | |

TEST RUN NUMBER*

22

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

COEFFICENTS IDVAR (1) IDVAR (2) IDV

α OR β _____

SCHEDULES _____

NP denotes ET without protuberances
 * Nominal Values-check individual runs For values

Table III Model Dimensional Data

MODEL COMPONENT : BODY - B₁₇

GENERAL DESCRIPTION : Fuselage, 3 configuration, lightweight orbiter

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-000139

| DIMENSIONS . | FULL SCALE | MODEL SCALE |
|------------------------|---------------|---------------|
| Length , In. | <u>1290.3</u> | <u>12.903</u> |
| Max Width , In. | <u>267.6</u> | <u>2.676</u> |
| Max Depth, In. | <u>244.5</u> | <u>2.445</u> |
| Fineness Ratio | <u>4.822</u> | <u>4.822</u> |
| Area - Ft ² | <u></u> | <u></u> |
| Max. Cross-Sectional | <u>386.67</u> | <u>3.867</u> |
| Planform | <u></u> | <u></u> |
| Wetted | <u></u> | <u></u> |
| Base | <u></u> | <u></u> |

Table III (Cont'd)

| | |
|---------------------|-------------------------|
| MODEL COMPONENT | CANOPY - C ₇ |
| GENERAL DESCRIPTION | Configuration 3 |
| | |
| | |
| MODEL SCALE: 0.010 | |
| | |
| DRAWING NUMBER | VL70-000139 |

| DIMENSIONS | FULL SCALE | MODEL SCALE |
|---|------------|-------------|
| Length($X_0 = 433$ to $X_0 = 578$), In. | 145.00 | 1.450 |
| Max Width | _____ | _____ |
| Max Depth | _____ | _____ |
| Fineness Ratio | _____ | _____ |
| Area | _____ | _____ |
| Max. Cross-Sectional | _____ | _____ |
| Planform | _____ | _____ |
| Wetted | _____ | _____ |
| Base | _____ | _____ |

Table III (Cont'd)

MODEL COMPONENT: ELEVON - E₂₂

GENERAL DESCRIPTION: Configuration 3 Data for 1 of 2 sides.

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-000,139

| <u>DIMENSIONS:</u> | <u>FULL-SCALE</u> | <u>MODEL SCALE</u> |
|---|-------------------|--------------------|
| Area - Ft ² | <u>205.52</u> | <u>0.0206</u> |
| Span (equivalent) , In. | <u>353.34</u> | <u>3.533</u> |
| Inb'd equivalent chord, In. | <u>114.78</u> | <u>1.148</u> |
| Outb'd equivalent chord , In. | <u>55.00</u> | <u>0.550</u> |
| Ratio movable surface chord/ total surface chord | | |
| At Inb'd equiv. chord | <u>0.208</u> | <u>0.208</u> |
| At Outb'd equiv. chord | <u>0.400</u> | <u>0.400</u> |
| Sweep Back Angles, degrees | | |
| Leading Edge | <u>0.00</u> | <u>0.00</u> |
| Tailing Edge | <u>-10.24</u> | <u>-10.24</u> |
| Hingeline | <u>0.00</u> | <u>0.00</u> |
| (Product of area & c) | | |
| Area Moment (Normal to hinge line), Ft ³ | <u>1548.07</u> | <u>0.0015</u> |

Table III (Cont'd)

MODEL COMPONENT : BODY FLAP - F₅

GENERAL DESCRIPTION Configuration 3

MODEL SCALE: 0.010

DRAWING NUMBER . VL70-000139

| DIMENSIONS | FULL SCALE | MODEL SCALE |
|------------------------|---------------|---------------|
| Length , In. | <u>84.70</u> | <u>0.847</u> |
| Max Width, In. | <u>267.6</u> | <u>2.676</u> |
| Max Depth | _____ | _____ |
| Fineness Ratio | _____ | _____ |
| Area - Ft ² | _____ | _____ |
| Max. Cross-Sectional | _____ | _____ |
| Planform | <u>142.5</u> | <u>0.014</u> |
| Wetted | _____ | _____ |
| Base | <u>38.096</u> | <u>0.0038</u> |

Table III. (Cont'd)

MODEL COMPONENT . OMS POD - M₄
 GENERAL DESCRIPTION Configuration 3
NOTE: Identical to M₃, except inte section to fuselage.

MODEL SCALE: 0.010
 DRAWING NUMBER . VL70-000139

| DIMENSIONS : | FULL SCALE | MODEL SCALE |
|-----------------------|-----------------------------|-----------------------------|
| Length , In. | <u>346.0</u> | <u>3.460</u> |
| Max Width , In. | <u>108.0</u> | <u>1.080</u> |
| Max Depth , In. | <u>113.0</u> | <u>1.130</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 (Cont'd)

MODEL COMPONENT: RUDDER - R₅GENERAL DESCRIPTION: Configuration 2A, 3, 3A and 140A/BMODEL SCALE: 0.010DRAWING NUMBER: VL70-000146A, -000095, -000139

| <u>DIMENSIONS:</u> | <u>FULL-SCALE</u> | <u>MODEL SCALE</u> |
|---|-------------------|--------------------|
| Area - Ft ² | <u>100.15</u> | <u>0.0100</u> |
| Span (equivalent), In. | <u>201.0</u> | <u>2.010</u> |
| Inb'd equivalent chord, In. | <u>91.585</u> | <u>0.916</u> |
| Outb'd equivalent chord, In. | <u>50.833</u> | <u>0.508</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> |
| Tailing Edge | <u>26.25</u> | <u>26.25</u> |
| Hingeline (Product of area & \bar{c}) | <u>34.83</u> | <u>34.83</u> |
| Area Moment (Normal to hingeline), Ft ³ | <u>610.92</u> | <u>0.0006</u> |
| Mean Aerodynamic Chord, In. | <u>73.2</u> | <u>0.732</u> |

Table III (Cont'd)

MODEL COMPONENT : EXTERNAL TANK - T₁₀

GENERAL DESCRIPTION : External oxygen-hydrogen tank, configuration 3

MODEL SCALE: 0.010

DRAWING NUMBER . VL72-000088, VL78-000041

| DIMENSIONS | FULL SCALE | MODEL SCALE |
|--|-------------------|-------------------|
| Length (Nose at $X_T = 309$) | <u>1865.0</u> | <u>18.650</u> |
| Max Width (Dia.), In. | <u>324.00</u> | <u>3.240</u> |
| Max Depth | <u> </u> | <u> </u> |
| Fineness Ratio | <u>5.756</u> | <u>5.756</u> |
| Area - Ft ² | <u> </u> | <u> </u> |
| Max. Cross-Sectional | <u>572.555</u> | <u>0.057</u> |
| Planform | <u> </u> | <u> </u> |
| Wetted | <u> </u> | <u> </u> |
| Base | <u> </u> | <u> </u> |
| W.P. of Tank Centerline (X_T), In. | 400.0 | 4.00 |

Table III (Cont'd)

MODEL COMPONENT . EXTERNAL TANK - T₁₆
 GENERAL DESCRIPTION External oxygen-hydrogen tank. Has a 2416-
inch radius secant ogive nose.

MODEL SCALE: 0.010

 DRAWING NUMBER . SS-A01167

| DIMENSIONS | FULL SCALE | MODEL SCALE |
|--|-------------------|-------------------|
| Length, In. (Nose At $X_T = 276$) | <u>1898.0</u> | <u>18.980</u> |
| Max Width | <u>324.0</u> | <u>3.240</u> |
| Max Depth | <u> </u> | <u> </u> |
| Fineness Ratio | <u>5.858</u> | <u>5.858</u> |
| Area - Ft ² | <u> </u> | <u> </u> |
| Max. Cross-Sectional | <u>572.555</u> | <u>0.057</u> |
| Planform | <u> </u> | <u> </u> |
| Wetted | <u> </u> | <u> </u> |
| Base | <u> </u> | <u> </u> |
| W.P. of tank centerline (Z_T), In. | 400.0 | 4.00 |
| L.E. nose radius | 16.5 | 0.165 |
| Origin of 2416" radius at 2231 from tank centerline | 1181.0 | 11.810 |

Table III (Cont'd)

MODEL COMPONENT: VERTICAL - V 7

GENERAL DESCRIPTION: Centerline vertical tail, doublewedge airfoil with rounded leading edge.

NOTE: Same as V₅, but with manipulator housing removed.

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-000139

| DIMENSIONS: | FULL SCALE | MODEL SCALE |
|-------------------------------|------------|-------------|
| TOTAL DATA | | |
| Area (Theo) - Ft ² | | |
| Planform | 425.92 | 0.043 |
| Span (Theo) - In. | 315.72 | 3.157 |
| Aspect Ratio | 1.675 | 1.675 |
| Rate of Taper | 0.507 | 0.507 |
| Taper Ratio | 0.404 | 0.404 |
| Sweep-Back Angles, Degrees. | | |
| Leading Edge | 45.000 | 45.000 |
| Trailing Edge | 26.249 | 26.249 |
| 0.25 Element Line | 41.130 | 41.130 |
| Chords: | | |
| Root (Theo) WP | 268.50 | 2.685 |
| Tip (Theo) WP | 108.47 | 1.085 |
| MAC | 199.81 | 1.998 |
| Fus. Sta. of .25 MAC | 1463.50 | 14.635 |
| W.P. of .25 MAC | 635.522 | 6.355 |
| B.L. of .25 MAC | 0.00 | 0.00 |
| Airfoil Section | | |
| Leading Wedge Angle - Deg. | 10.00 | 10.00 |
| Trailing Wedge Angle - Deg. | 14.920 | 14.920 |
| Leading Edge Radius | 2.00 | 0.020 |
| Void Area | 13.17 | 0.0013 |
| Blanketed Area | 0.0 | 0.0 |

ORIGINAL PAGE IS
OF POOR QUALITY

Table III (Conl'd)

MODEL COMPONENT: WING-W₁₀₃GENERAL DESCRIPTION: Configuration 3 orbiter wing.NOTE: Same planform as W₈₇, except dihedral at trailing edge.

MODEL SCALE: 0.010

| TEST NO. | DWG. NO. | VL70-000139 | |
|--|------------|-------------|--|
| DIMENSIONS: | FULL-SCALE | MODEL SCALE | |
| <u>TOTAL DATA</u> | | | |
| Area (Theo.) Ft ² | | | |
| Planform | 2690.00 | 0.2690 | |
| Span (Theo) In. | 936.68 | 9.367 | |
| Aspect Ratio | 2.265 | 2.265 | |
| Rate of Taper | 1.177 | 1.177 | |
| Taper Ratio | 0.200 | 0.200 | |
| Dihedral Angle, degrees | 3.500 | 3.500 | |
| Incidence Angle, degrees | 3.000 | 3.000 | |
| Aerodynamic Twist, degrees | 3.000 | 3.000 | |
| Sweep Back Angles, degrees | | | |
| Leading Edge | 45.000 | 45.000 | |
| Trailing Edge | - 10.24 | -10.24 | |
| 0.25 Element Line | 35.209 | 35.209 | |
| Chords: | | | |
| Root (Theo) B.P.O.O. | 689.24 | 6.892 | |
| Tip, (Theo) B.P. | 137.85 | 1.379 | |
| MAC | 474.81 | 4.748 | |
| Fus. Sta. of .25 MAC | 1136.89 | 11.369 | |
| W.P. of .25 MAC | 299.20 | 2.992 | |
| B.L. of .25 MAC | 182.13 | 1.821 | |
| <u>EXPOSED DATA</u> | | | |
| Area (Theo) Ft ² | 1752.29 | 0.175 | |
| Span, (Theo) In. BP108 | 720.68 | 7.207 | |
| Aspect Ratio | 2.058 | 2.058 | |
| Taper Ratio | 0.245 | 0.245 | |
| Chords | | | |
| Root BP108 | 562.40 | 5.624 | |
| Tip 1.00 $\frac{b}{2}$ | 137.85 | 1.379 | |
| MAC | 393.03 | 3.930 | |
| Fus. Sta. of .25 MAC | 1185.31 | 11.853 | |
| W.P. of .25 MAC | 300.20 | 3.002 | |
| B.L. of .25 MAC | 251.76 | 2.518 | |
| Airfoil Section (Rockwell Mod NASA) XXXX-64 | | | |
| Root $\frac{b}{2}$ = | 0.10 | 0.10 | |
| Tip $\frac{b}{2}$ = | 0.12 | 0.12 | |
| Data for (1) of (2) Sides | | | |
| Leading Edge Cuff | | | |
| Planform Area Ft ² | 120.33 | 0.012 | |
| Leading Edge Intersects Fus M. L. @ Sta | 560.0 | 5.600 | |
| Leading Edge Intersects Wing @ Sta | 1035.0 | 10.350 | |

Table IV.
HEAT TRANSFER GAGE LOCATIONS
ORBITER ($L_{oms} = 12.903$)

FUSELAGE

| GAGE NO | X_m/L_{oms} | X_{oms} (FROM NOSE) | ACTUAL x_{oms} | DESIRED Y_{oms} | ACTUAL Y_{oms} | ϕ |
|---------|---------------|--------------------------|---------------------|----------------------|---------------------|--------|
| 1 | 0 | 0 | 0 | 0 | + 012 | 0 |
| 2 | 0 005 | 065 | 086 | | 012 | |
| 3 | 0 02 | 258 | 249 | | 012 | |
| 4 | 0 04 | 516 | 539 | | 020 | |
| 5 | 0 06 | 774 | 797 | | 017 | |
| 6 | 0 08 | 1 032 | 1 051 | | 019 | |
| 7 | 0 10 | 1 290 | 1 324 | | 019 | |
| 8 | 0 12 | 1,548 | 1 570 | | 019 | |
| 9 | 0 14 | 1 806 | 1 831 | | 018 | |
| 10 | 0 16 | 2,065 | 2 078 | | 016 | |
| 11 | 0 20 | 2 580 | 2 578 | | 009 | |
| 12 | 0 25 | 3 226 | 3 221 | | 008 | |
| 13 | 0 30 | 3 871 | 3 873 | | 005 | |
| 14 | 0 35 | 4 516 | 4 520 | | 006 | |
| 15 | 0 40 | 5 161 | 5 172 | | 006 | |
| 16 | 0 45 | 5 806 | 5 795 | | 005 | |
| 17 | 0 50 | 6 452 | 6 452 | | 005 | |
| 18 | 0 60 | 7 742 | 7 698 | | 003 | |
| 19 | 0 70 | 9 032 | 9 033 | | 006 | |
| 20 | 0 80 | 10 322 | 10 320 | | 004 | |
| 21 | 0 90 | 11 613 | 11 616 | | 011 | |
| 22 | 1 00 | 12 903 | 12 907 | | 010 | |
| 23 | 0 03 | 387 | 391 | | 016 | 130° |
| 24 | 0 06 | 774 | 780 | | 014 | |
| 25 | 0 09 | 1 161 | 1 171 | | 004 | |
| 26 | 0 125 | 1 613 | 1 623 | | 006 | |
| 27 | 0 15 | 1 935 | 1 940 | | 006 | |
| 28 | 0 130 | 2 323 | 2 333 | | 007 | |
| 29 | 0 160 | 2 065 | 2 067 | | 009 | |
| 30 | 0 170 | 2 194 | 2 200 | | 009 | |
| 31 | 0 50 | 6 452 | 6 461 | | 003 | |
| 32 | 0 70 | 9 032 | 9 023 | 0 | 001 | 180° |
| 33 | 0 10 | 1 290 | 1 284 | --- | 569 | 30° |
| 34 | 0 20 | 2 580 | 2 593 | --- | 638 | 30° |
| 35 | 0 30 | 3 871 | 3 875 | 500 | 490 | --- |
| 36 | 0 40 | 5 161 | 5 151 | 500 | 494 | --- |
| 37 | 0 60 | 7 742 | 7 749 | 500 | 494 | --- |
| 38 | 0 80 | 10 322 | 10 323 | 500 | 497 | --- |

WING LOWER SURFACE

| GAGE NO | DESIRED X_{oms} (FROM NOSE) | ACTUAL x_{oms} | DESIRED Y_{oms} | ACTUAL Y_{oms} |
|---------|-------------------------------------|---------------------|----------------------|---------------------|
| 43 | 5 161 | 5 165 | 1 171 | 1 159 |
| 44 | 6 451 | 6 442 | | 1 156 |
| 45 | 7 742 | 7 750 | | 1 161 |
| 46 | 9 032 | 9 040 | | 1 166 |
| 47 | 11 613 | 11 615 | 1 171 | 1 163 |
| 48 | 7 742 | 7 780 | 1 873 | 1 930 |
| 49 | 9 032 | 9 029 | | 1 867 |
| 50 | 10 322 | 10 322 | | 1 871 |
| 51 | 12 037 | 12 035 | 1 873 | 1 867 |
| 52 | 8 399 | 8 407 | 2 342 | 2 337 |
| 53 | 9 032 | 9 044 | | 2 332 |
| 54 | 10 322 | 10 326 | | 2 338 |
| 55 | 11 211 | 11 219 | 2 342 | 2 341 |
| 56 | 9 500 | 9 499 | 2 810 | 2 804 |
| 57 | 10 322 | 10 322 | | 2 804 |
| 58 | 10 900 | 10 941 | 2 810 | 2 811 |
| 59 | 12 020 | 12 018 | 2 810 | 2 804 |
| 60 | 9 554 | 9 563 | 3 513 | 3 455 |
| 61 | 10 322 | 10 321 | 3 513 | 3 510 |
| 62 | 11 424 | 11 429 | 3 513 | 3 507 |
| 63 | 10 172 | 10 145 | 3 981 | 3 972 |
| 64 | 1 060 | 11 066 | 3 981 | 3 967 |
| 65 | 8 520 | 8 503 | 1 873 | 1 854 |
| 66 | 10 658 | 10 656 | 4 449 | 4 436 |
| 67 | 11 293 | 11 293 | 4 449 | 4 448 |
| 68 | 11 345 | 11 347 | TIP | TIP |

WING LEADING EDGE

| GAGE NO | LOCATION | | $\% \text{ ACTUAL}$ |
|---------|---------------|---------------|---------------------|
| | DESIRED | ACTUAL | |
| 69 70 | $Y_o = 1 171$ | $Y_o = 1 155$ | |
| 71 72 | $X = 5 160$ | $X = 5 164$ | |
| 73 74 | $X = 6 503$ | $X = 6 508$ | |
| 75 76 | $X = 7 742$ | $X = 7 753$ | |
| 77 78 | $Y_o = 2 342$ | $Y = 2 351$ | 8 332 |
| 79 86* | $Y_o = 2 810$ | $Y = 2 823$ | 8 801 |
| 89 90 | $Y_o = 3 513$ | $Y = 3 517$ | 9.487 |
| 91 98* | $Y_o = 3 981$ | $Y = 4 033$ | 10.016 |
| 101 102 | $Y_o = 4 449$ | $Y = 4 446$ | 10.577 |

*GAGE NUMBERS 87, 88 & 99 100 WERE NOT FABRICATED BECAUSE OF SPACE LIMITATIONS

VERTICAL TAIL

| GAGE NO | DESIRED Z_{oms} | ACTUAL Z_{oms} |
|---------|----------------------|---------------------|
| 39 | 6 096 | 6 091 |
| 40 | 6 961 | 6 970 |
| 41 | 7 867 | 7 861 |
| 42 | 8 157 | 8 156 |

ORIGINAL PACKET IS OF POOR QUALITY

Table IV. (Con1'd)
TANK ($L_{tms} = 18.650$)

| GAGE NO | X_{ms}/L_{tms} | X_{ms} (FROM NOSE) | ACTUAL x | ϕ |
|---------|------------------|-------------------------|---------------|--------|
| 103 | 0 00 | 0 | 0 | — |
| 104 | 005 | 080 | 076 | 220 |
| 105 | 01 | 186 | 196 | 199 |
| 106 | 04 | 746 | 760 | 180 |
| 107 | 08 | 1 492 | 1 498 | ↑ |
| 108 | 15 | 2 798 | 2 802 | ↓ |
| 109 | 20 | 3 730 | 3 744 | 180 |
| 110 | 21 | 3 917 | 3 932 | 0 |
| 111 | 04 | 746 | 740 | 180 |
| 112 | 25 | 4 663 | 4 686 | ↑ |
| 113 | 35 | 6 528 | 6 545 | ↓ |
| 114 | 375 | 6 994 | 7 009 | 180 |
| 115 | 40 | 7 460 | 7 478 | ↑ |
| 116 | 425 | 7 926 | 7 953 | ↓ |
| 117 | 45 | 8 393 | 8 414 | 180 |
| 118 | 475 | 8 859 | 8 877 | ↑ |
| 119 | 50 | 9 325 | 9 341 | ↓ |
| 120 | 343 | 6 397 | 6 407 | 225 |
| 121 | 55 | 10 258 | 10 271 | 180 |
| 122 | 475 | 7 572 | 7 590 | 193 |
| 123 | 60 | 11 190 | 11 215 | 180 |
| 124 | 65 | 12 123 | 12 145 | ↑ |
| 125 | 70 | 13 055 | 13 083 | ↓ |
| 126 | 80 | 14 920 | 14 940 | 180 |
| 127 | 90 | 16 785 | 16 818 | ↑ |
| 128 | 937 | 17 475 | 17 458 | ↓ |
| 129 | 406 | 7 572 | 7 594 | 167 |
| 130 | 15 | 2 798 | 2 800 | 0 |
| 131 | 44 | 8 206 | 8 223 | 199 |
| 132 | 08 | 1 492 | 1 492 | 0 |
| 133 | 475 | 8 859 | 8 871 | 199 |
| 134 | 50 | 9 325 | 9 335 | 199 |
| 135 | 90 | 16 785 | 16 796 | 199 |
| 136 | 40 | 7 460 | 7 464 | 221 5 |
| 137 | 50 | 9 325 | 9 344 | ↑ |
| 138 | 60 | 11 190 | 11 205 | ↓ |
| 139 | 70 | 13 055 | 13 073 | 180 |
| 140 | 80 | 14 920 | 14 940 | ↑ |
| 141 | 85 | 15 853 | 15 882 | ↓ |
| 142 | 90 | 16 785 | 16 818 | 221 5 |
| 143 | 825 | 15 386 | 15 386 | 214 |
| 144 | 85 | 15 853 | 15 874 | ↑ |
| 145 | 875 | 16 319 | 16 339 | ↓ |
| 146 | 90 | 16 785 | 16 805 | 180 |
| 147 | 925 | 17 251 | 17 280 | ↑ |
| 148 | 960 | 17 904 | 17 902 | ↓ |
| 149 | 85 | 15 853 | 15 874 | 241 |
| 150 | 90 | 16 785 | 16 795 | 247 5 |
| 151 | 20 | 3 730 | 3 729 | 270 |
| 152 | 40 | 7 460 | 7 465 | ↑ |
| 153 | 50 | 9 325 | 9 322 | ↓ |
| 154 | 60 | 11 190 | 11 200 | 180 |
| 155 | 70 | 13 055 | 13 066 | ↑ |
| 156 | 80 | 14 920 | 14 930 | ↓ |
| 157 | 90 | 16 785 | 16 810 | 270 |
| 158 | 60 | 11 190 | 11 196 | 315 |
| 159 | 80 | 14 920 | 14 930 | 315 |
| 160 | 40 | 7 460 | 7 459 | 0 |
| 161 | 60 | 11 190 | 11 191 | 0 |
| 162 | 80 | 14 920 | 14 914 | 0 |

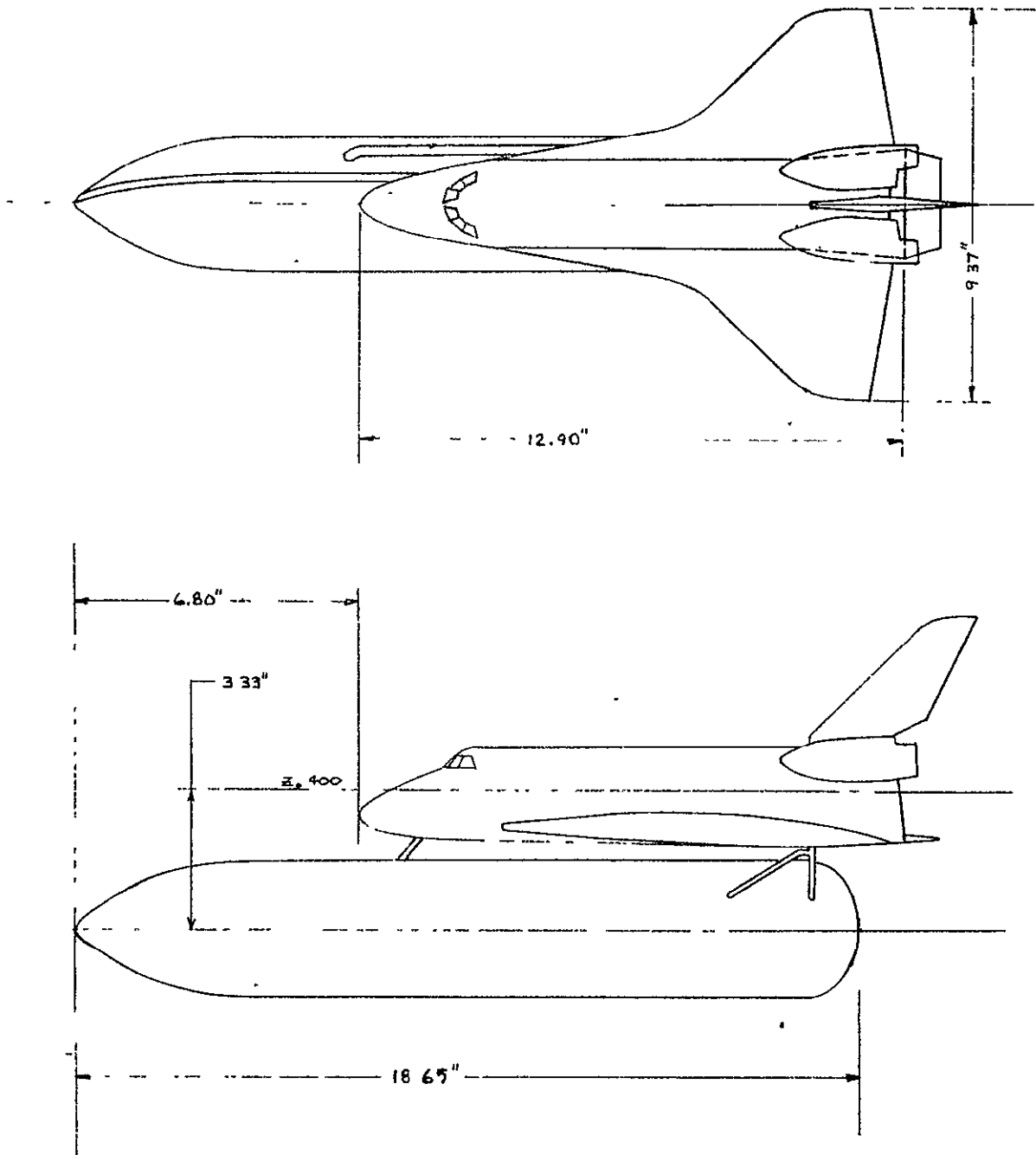
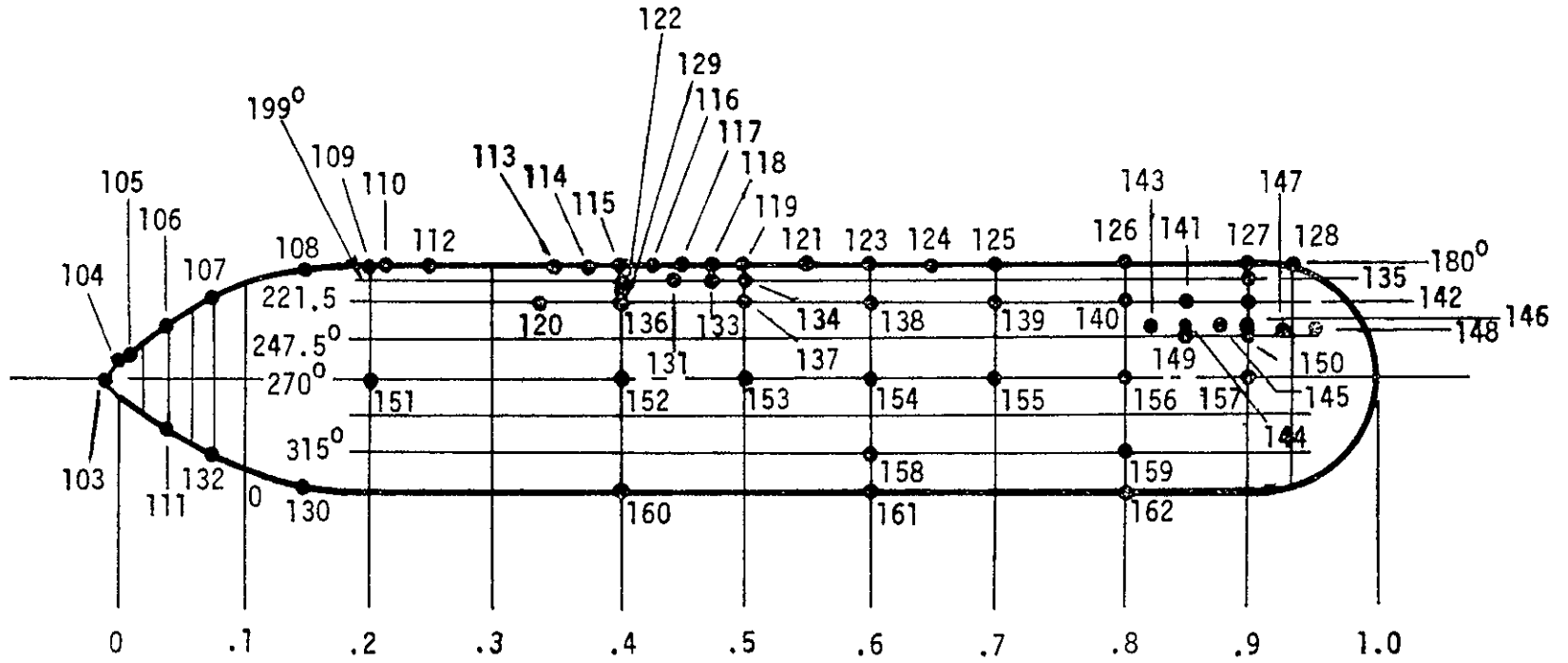
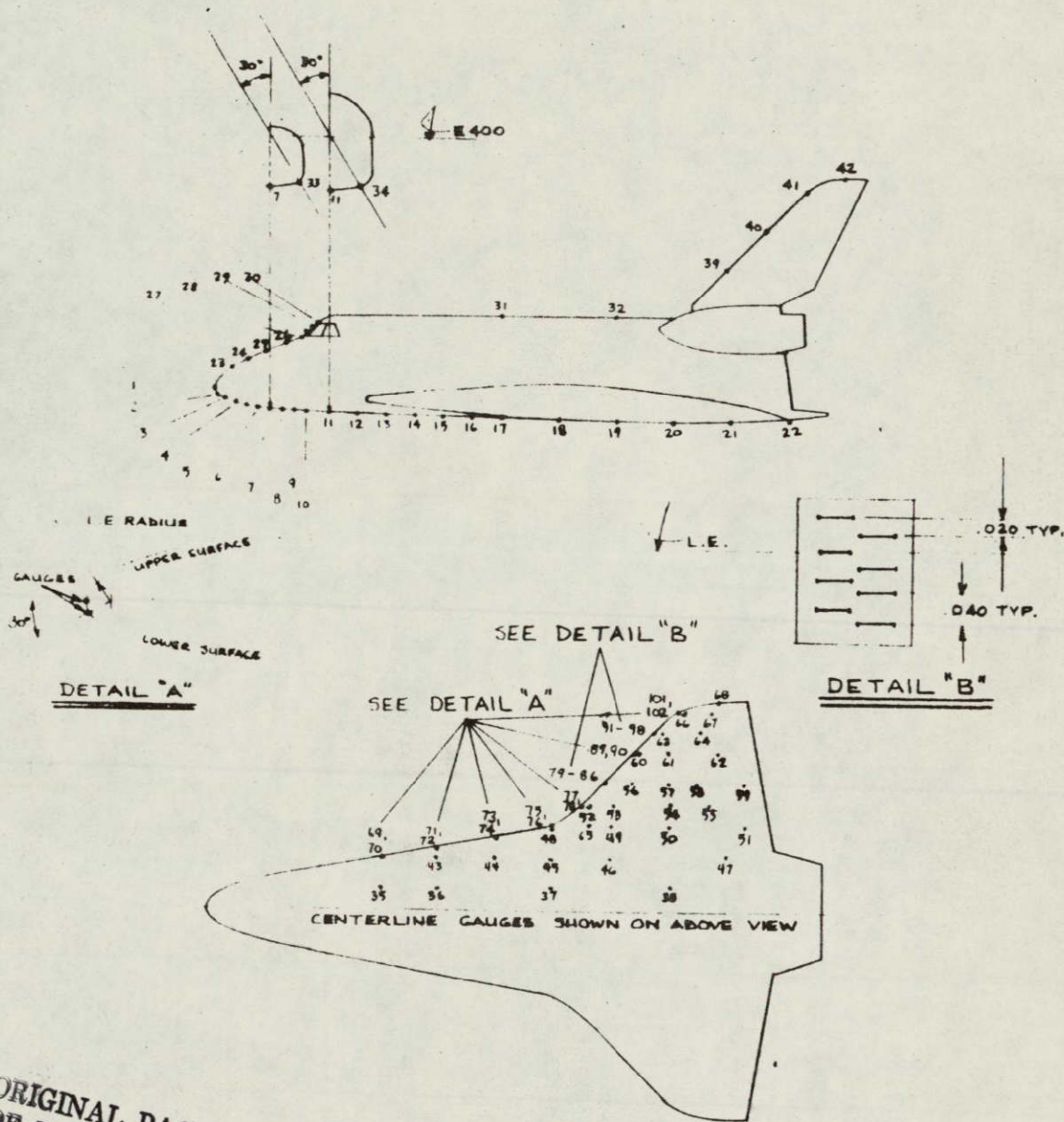


Figure 1. Configuration 3 Orbiter/ET



a. Model 37-T Instrumentation Locations

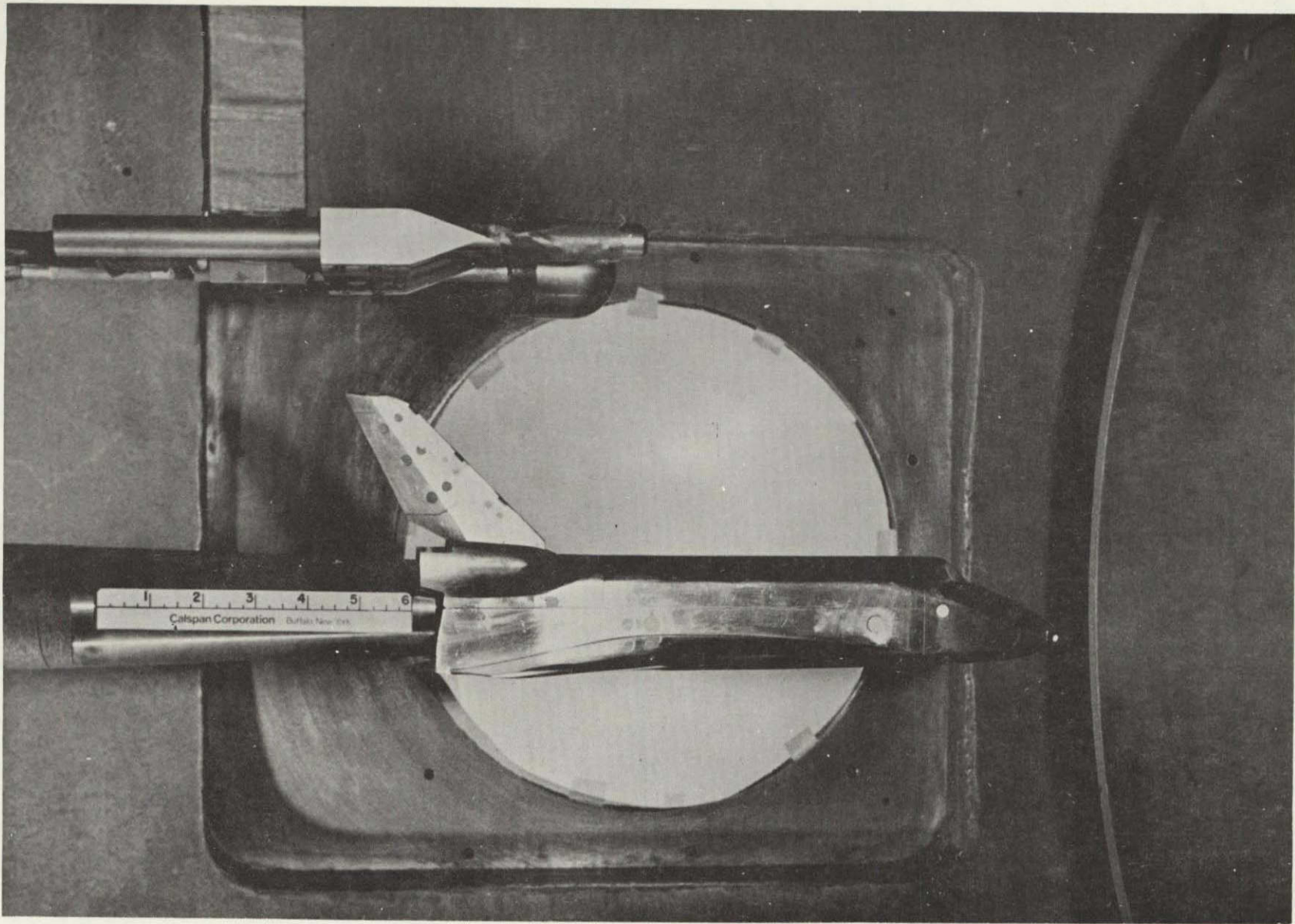
Figure 2. - Model instrumentation.



ORIGINAL PAGE IS
OF POOR QUALITY

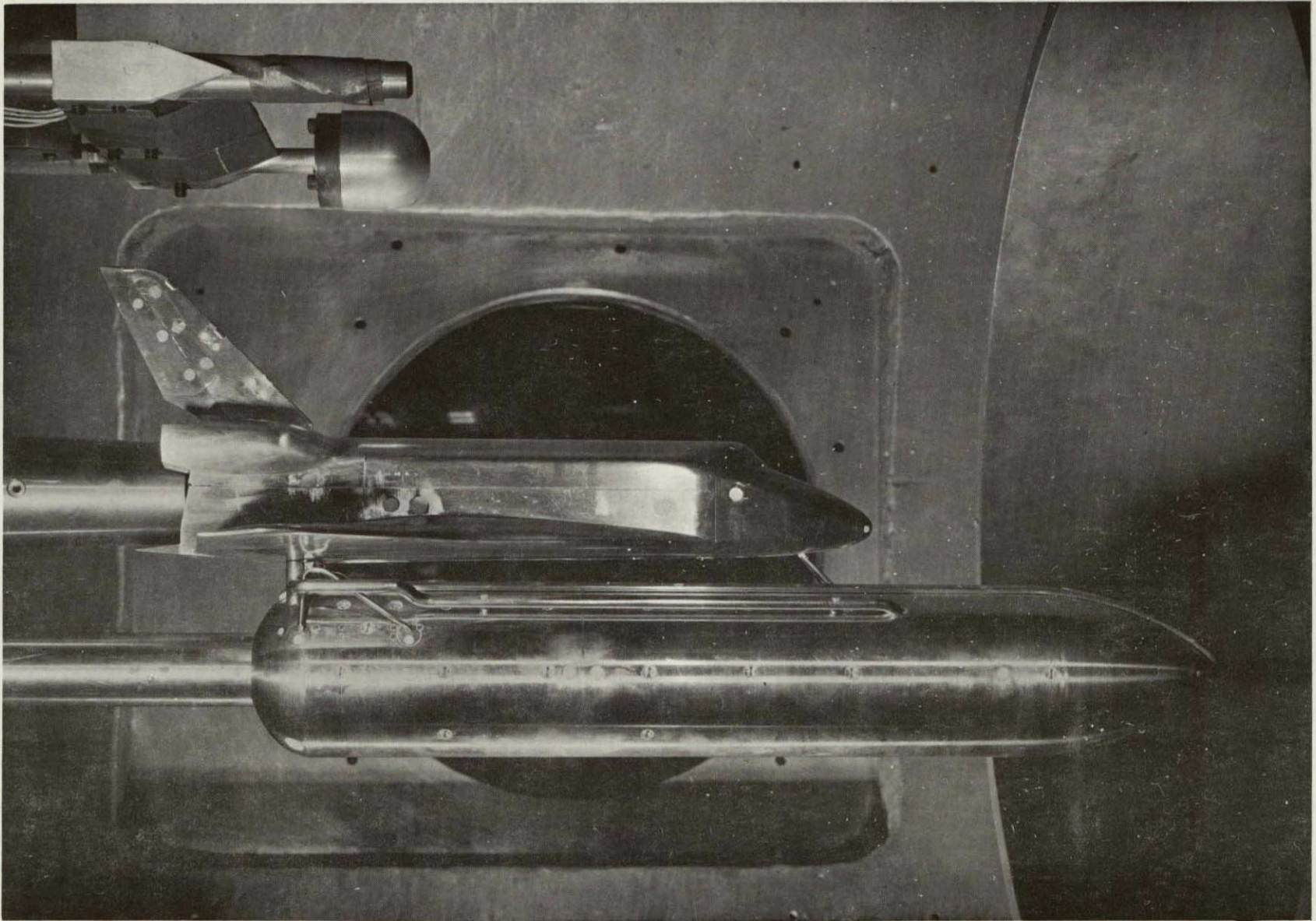
b. 37-0 Instrumentation Locations

Figure 2. - Concluded.



a. Installation of model 37-0 - Orbiter Alone

Figure 3.- Model photographs.

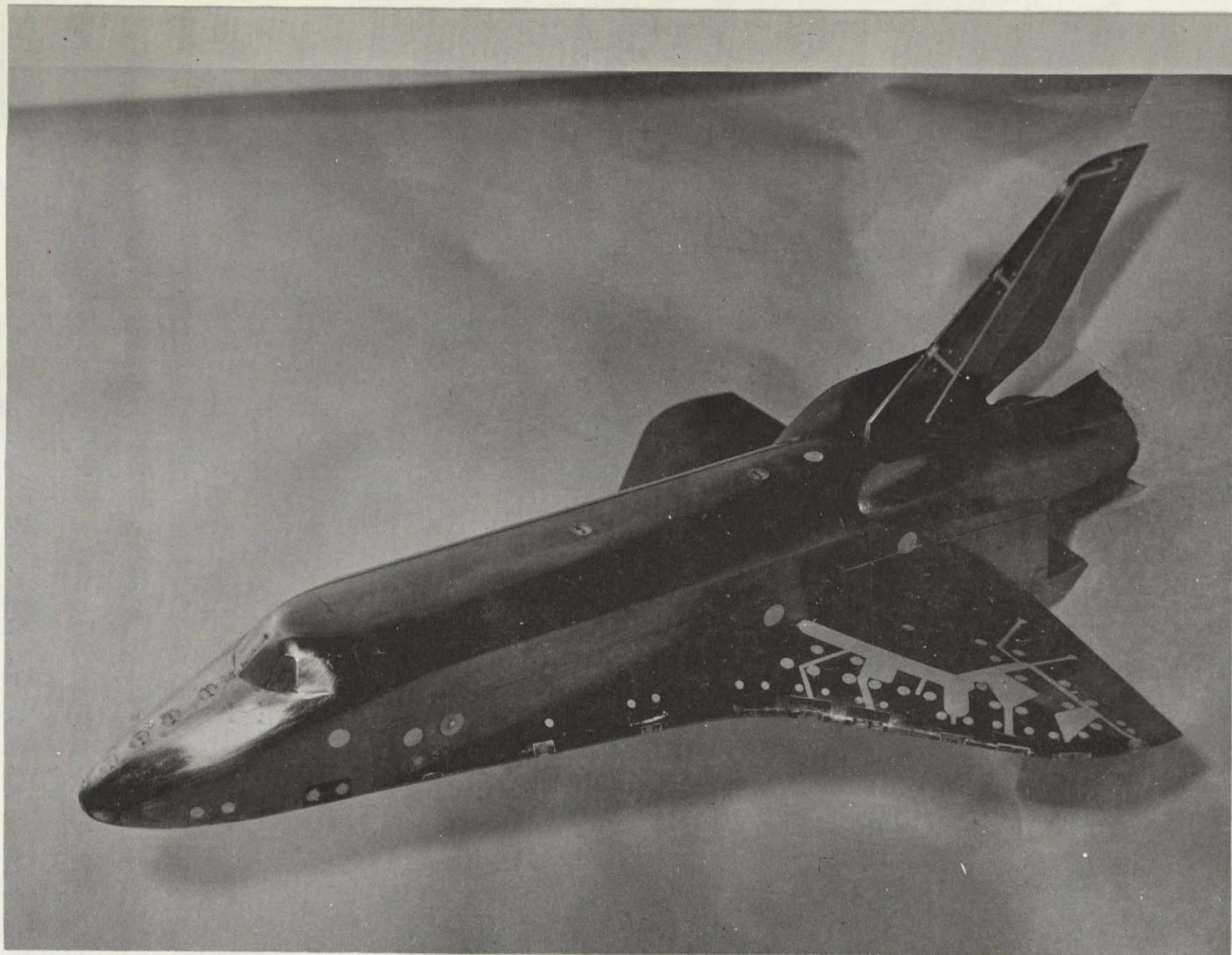


b. Installation of Model 37-0T - Orbiter/Tank

Figure 3. - Continued.

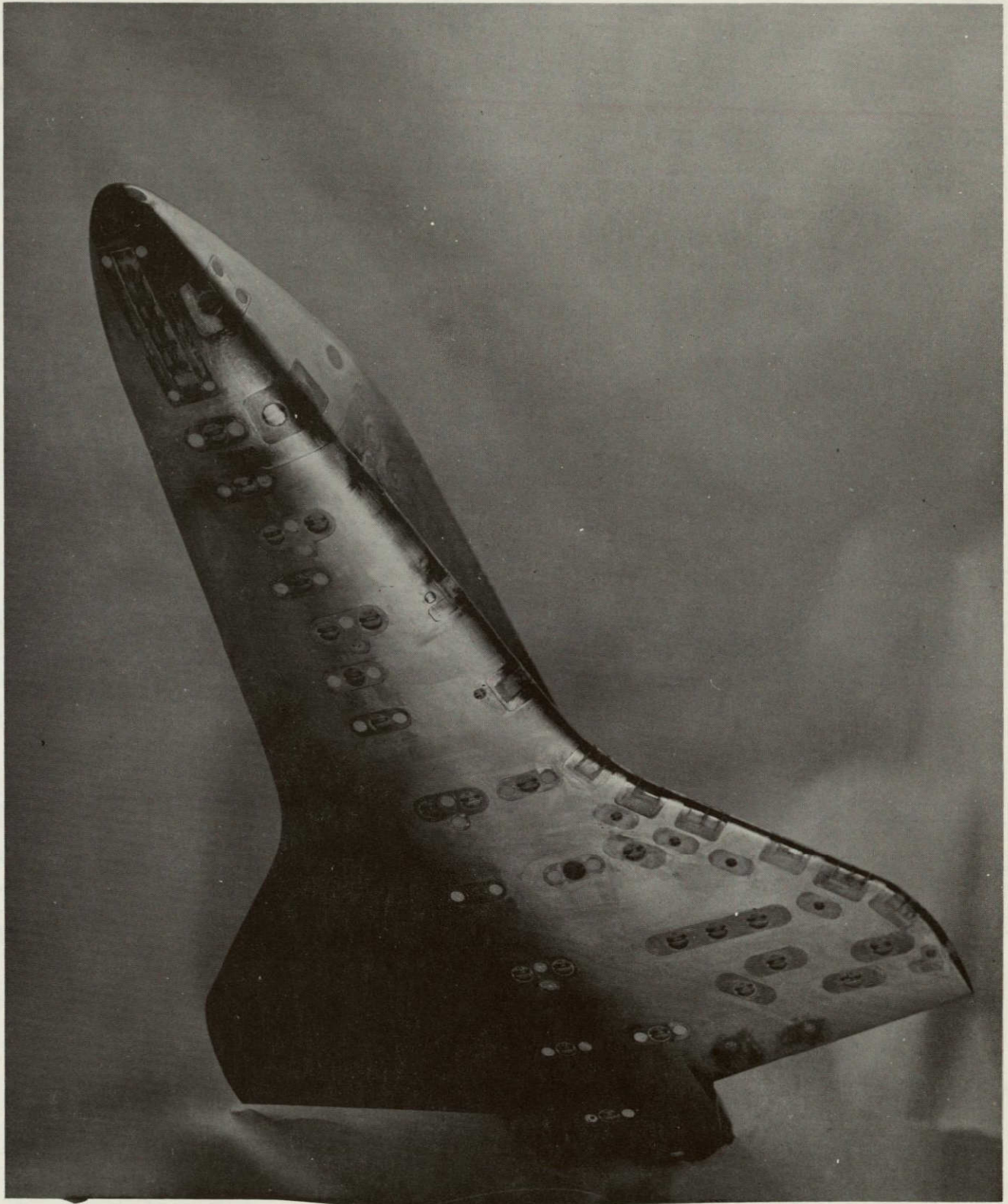
ORIGINAL PAGE IS
OF POOR QUALITY

THE BOOK CONTAINS
THE BOOK NUMBER 12
0101010



c. Instrumentation - Orbiter Top View

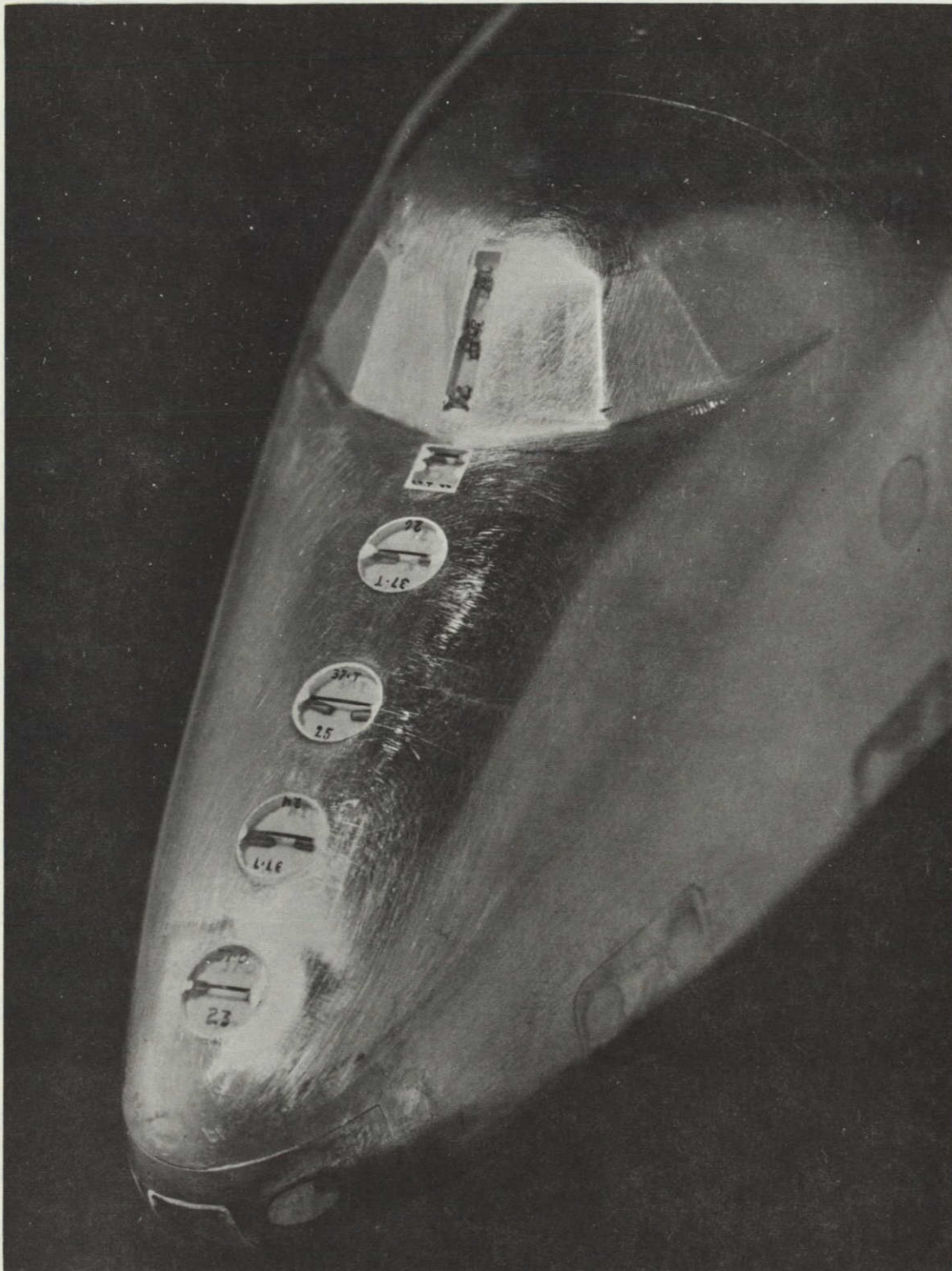
Figure 3. - Continued.



d. Instrumentation - Orbiter Bottom Surface

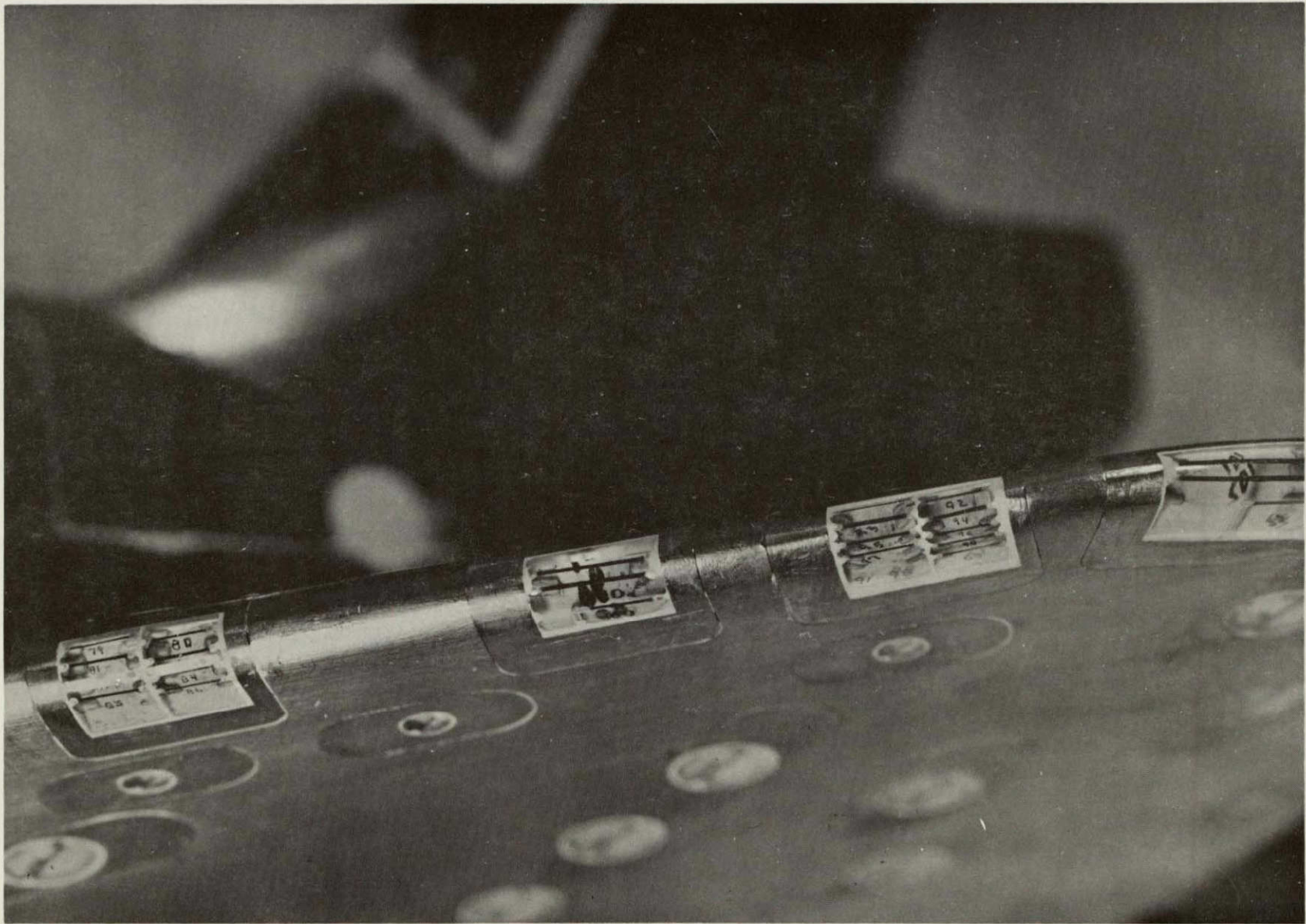
Figure 3. - Continued.

ORIGINAL PAGE IS
OF POOR QUALITY



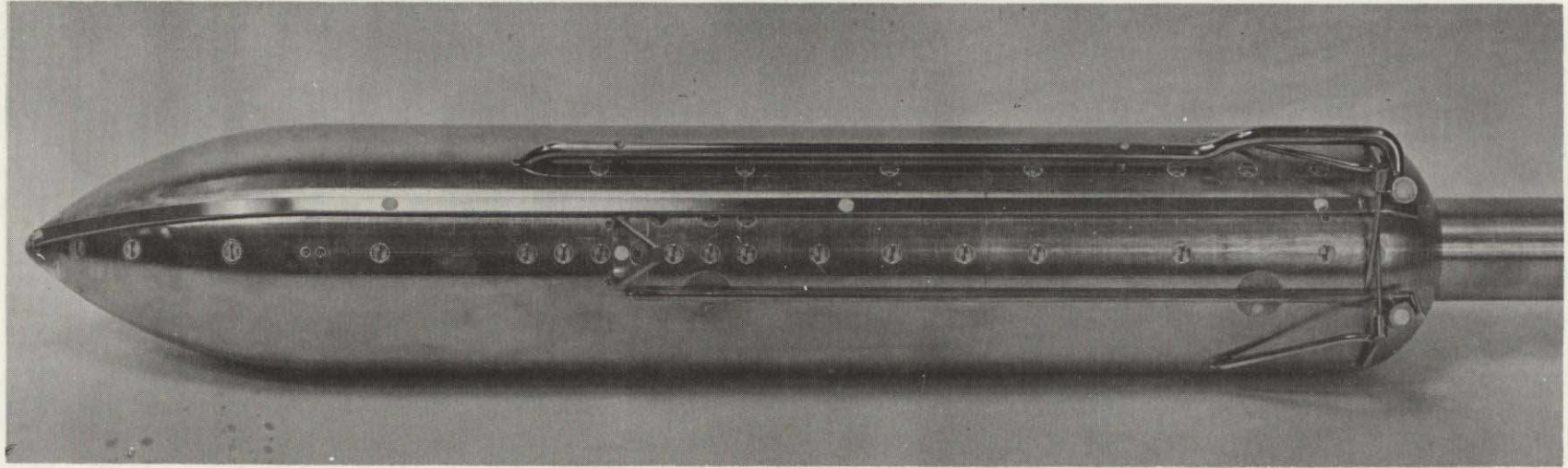
e. Instrumentation - Orbiter Nose and Canopy

Figure 3. - Continued.



f. Instrumentation - Orbiter Wing Leading Edge

Figure 3. - Continued.

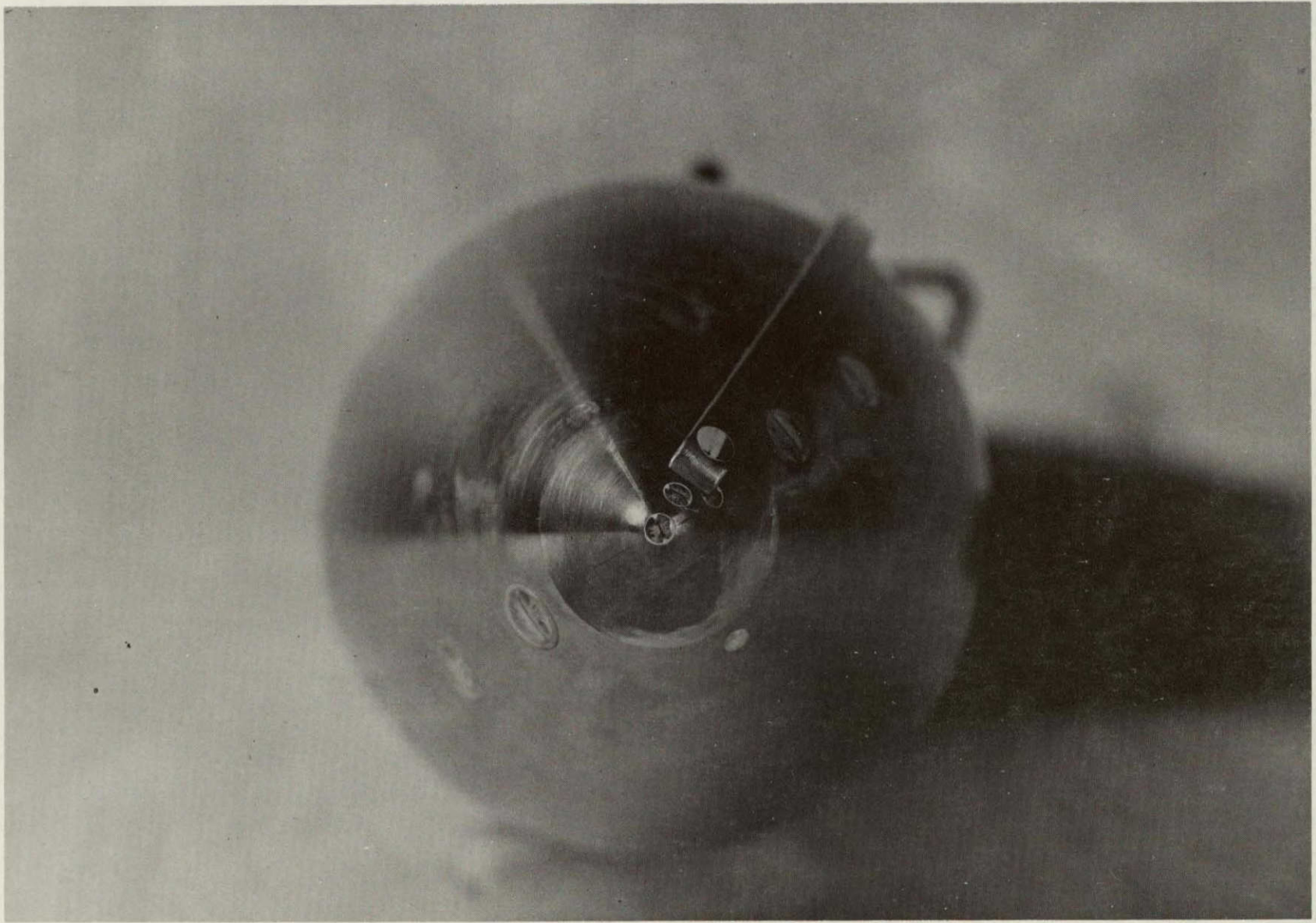


g. Instrumentation - Tank Top View

Figure 3. - Continued.

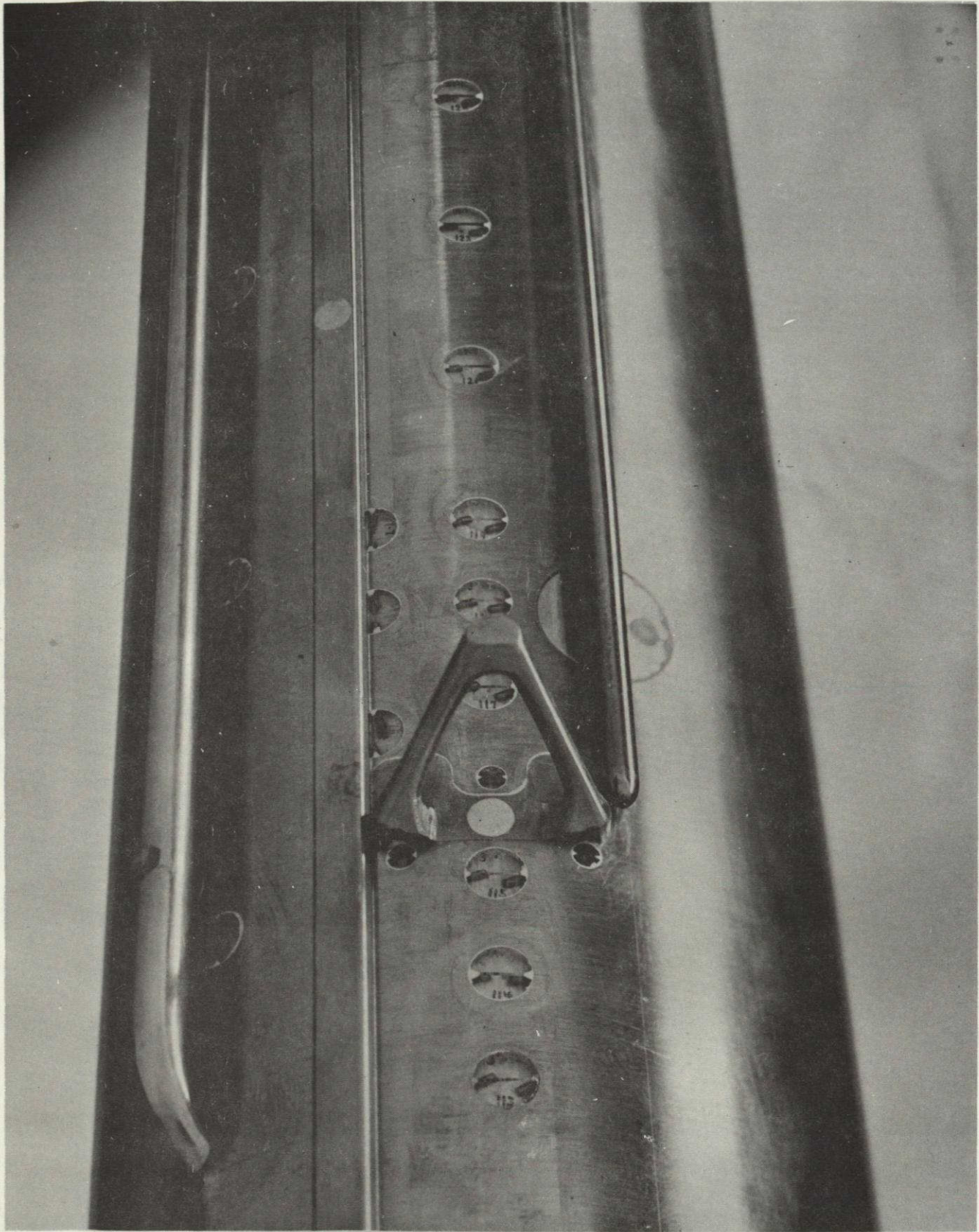
ORIGINAL PAGE IS
OF POOR QUALITY

45

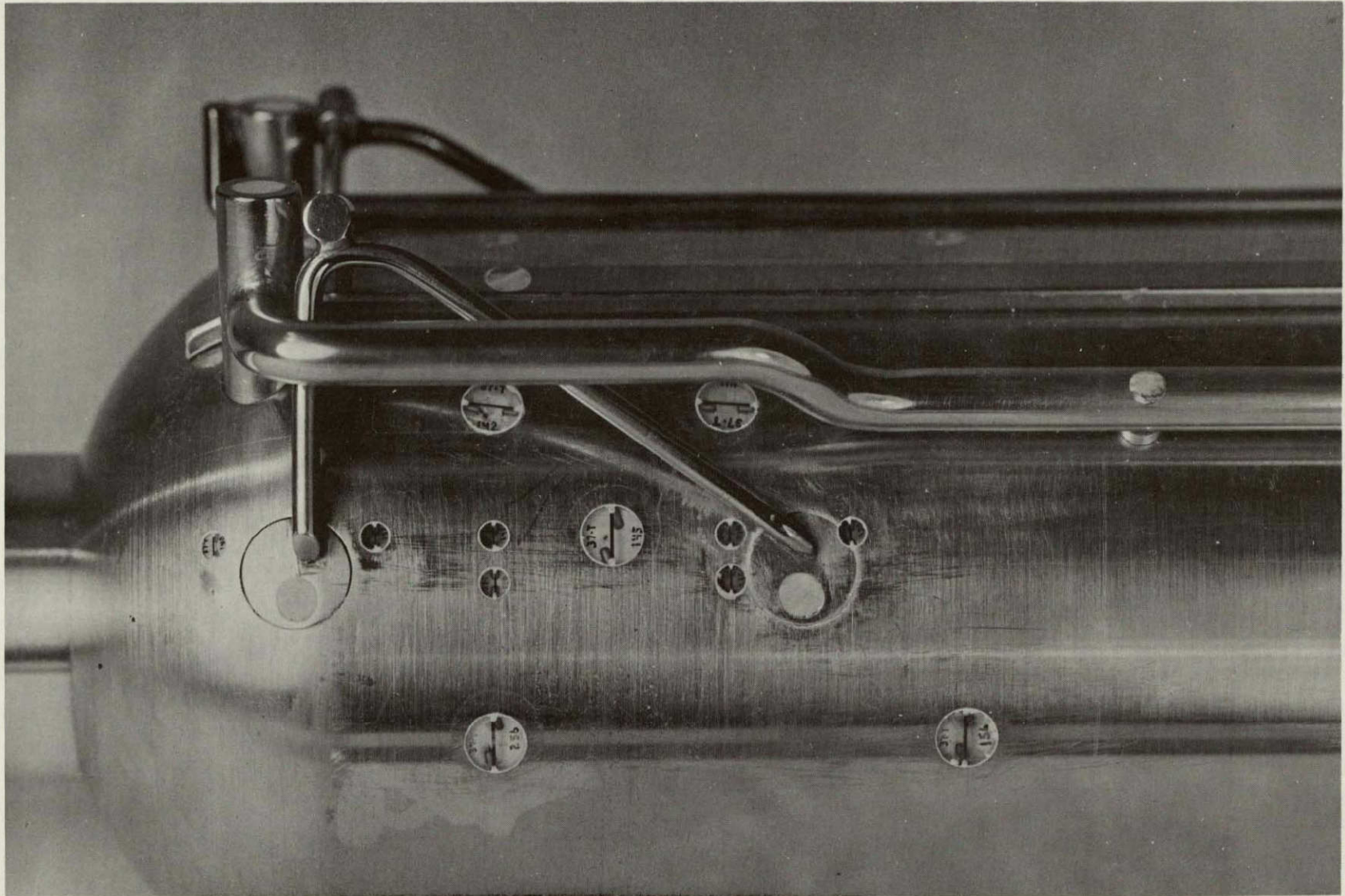


h. Instrumentation - Tank Nose

Figure 3. - Continued.

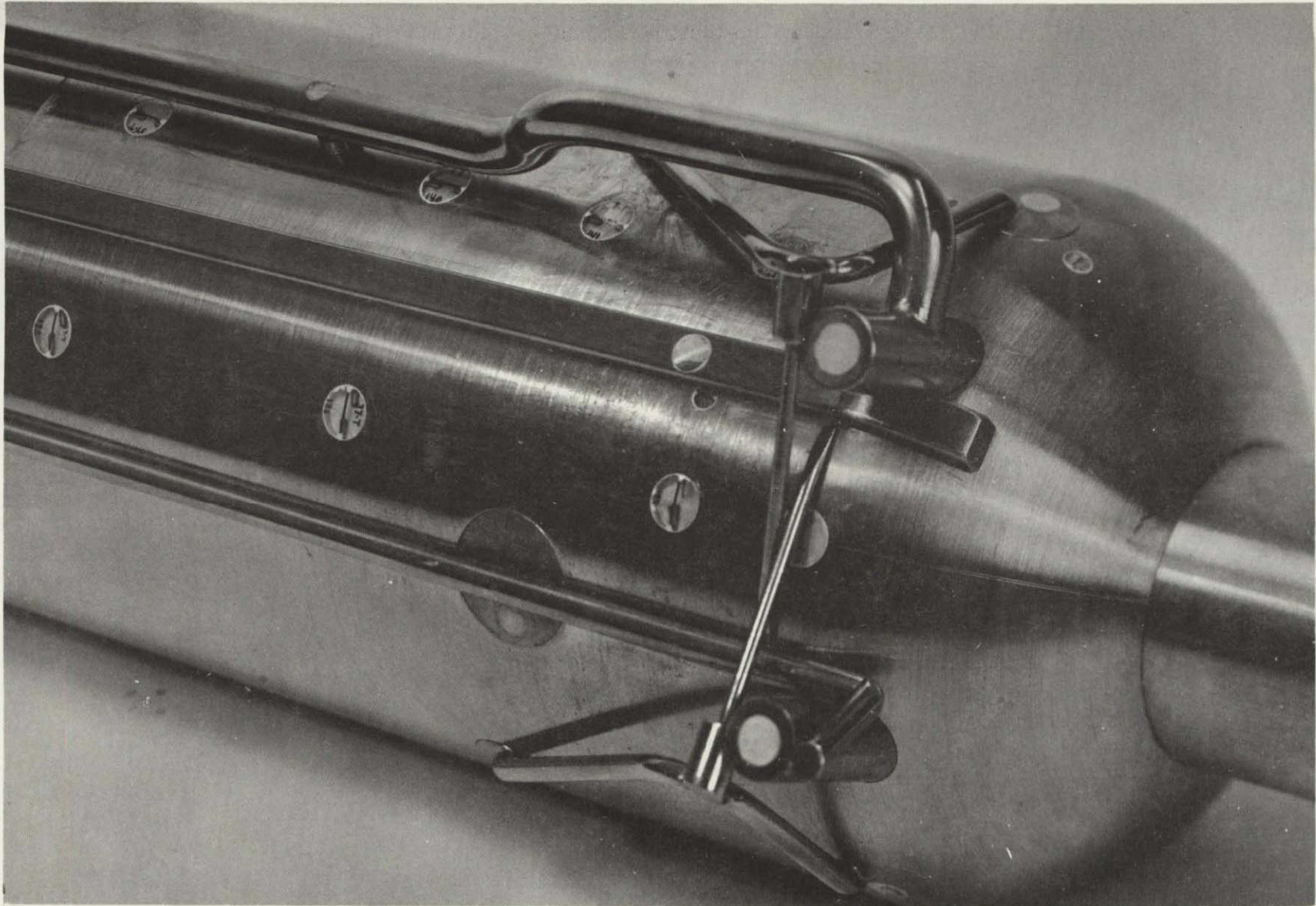


i. Instrumentation - Tank Forward Attachment Strut
Figure 3. - Continued.



j. Instrumentation - Tank Aft Attachment Struts - Side View

Figure 3. - Continued.

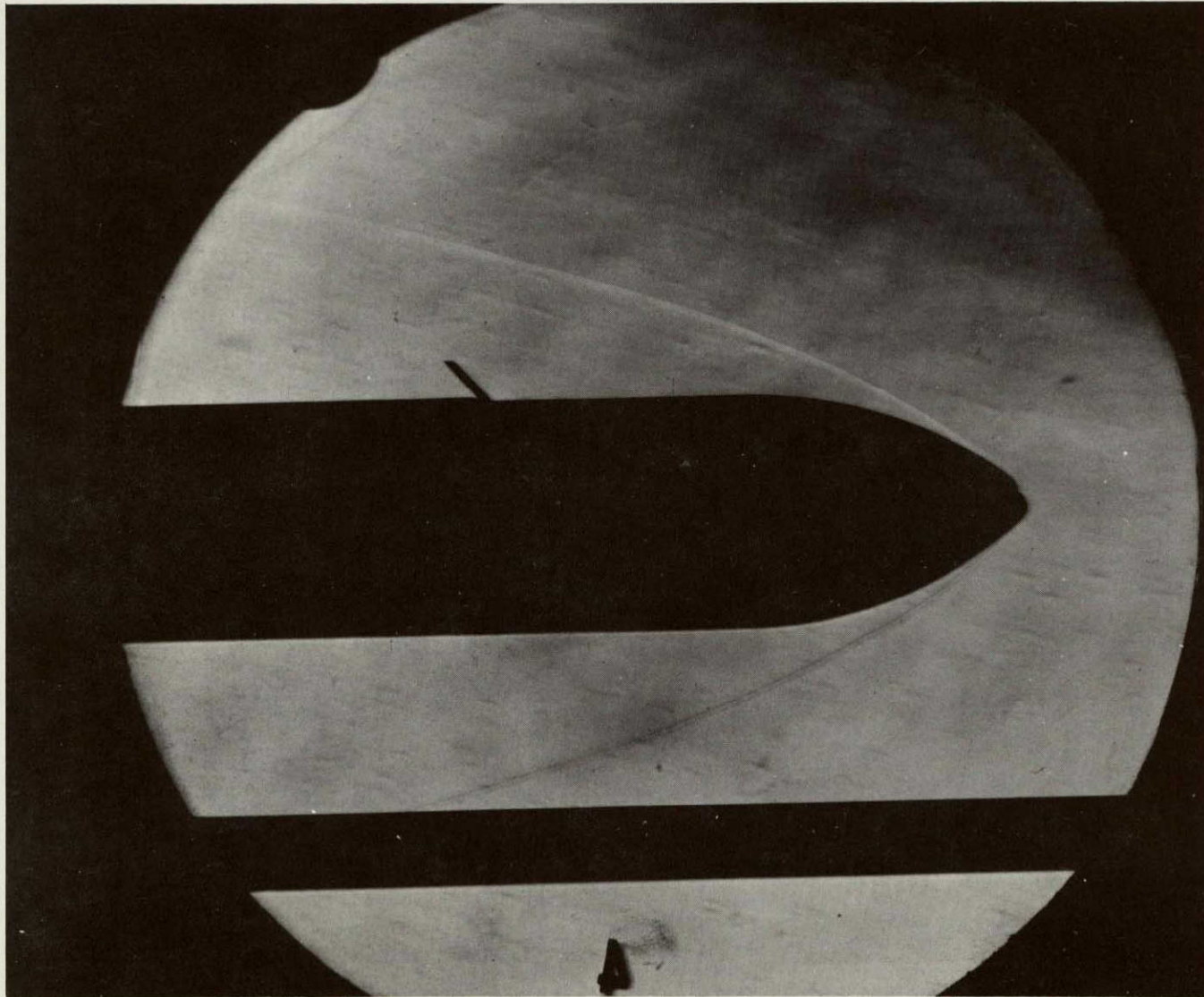


k. Instrumentation - Tank Aft Attachment Struts - Top View

Figure 3. - Continued.

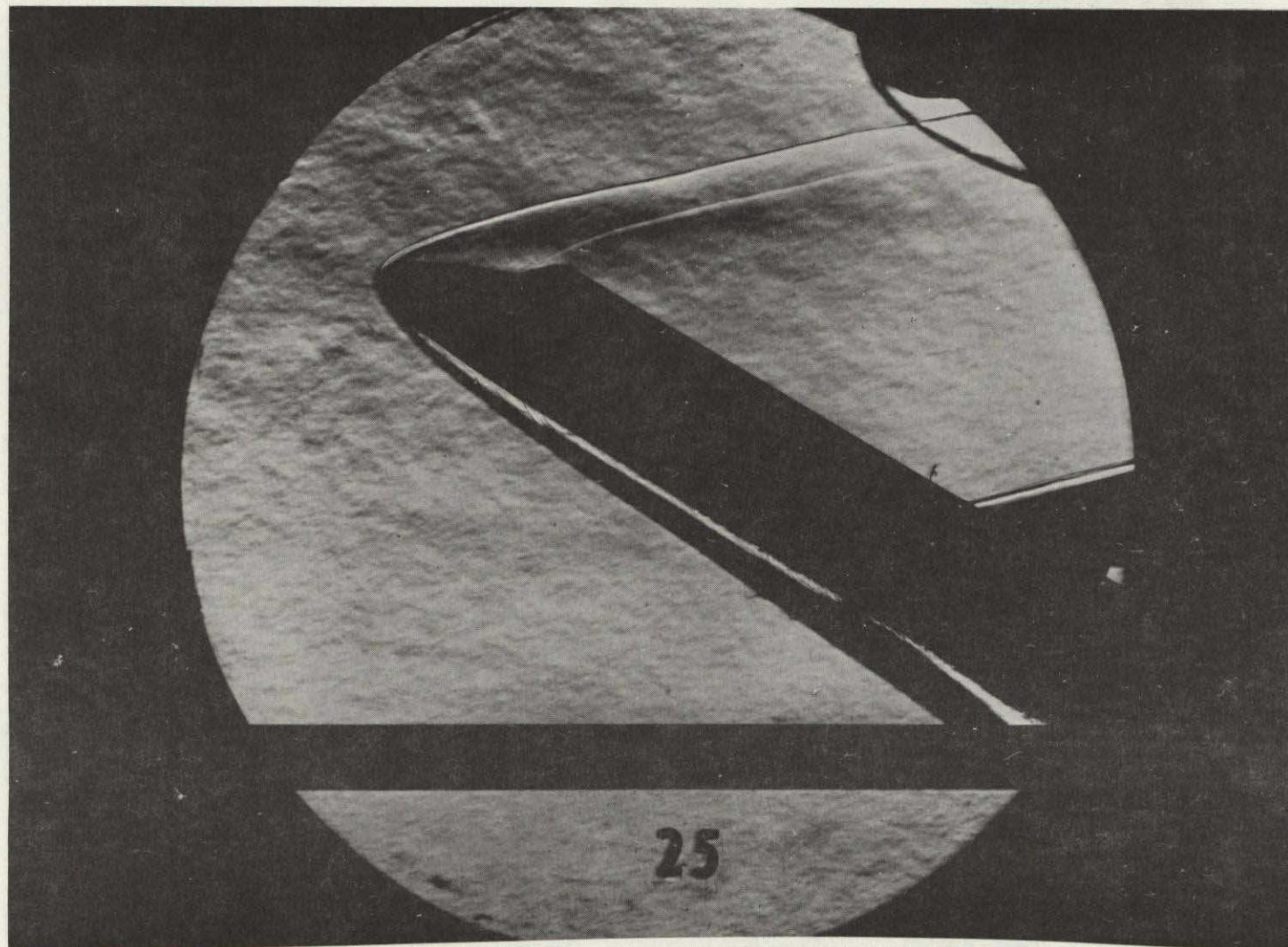
ORIGINAL PAGE IS
OF POOR QUALITY

49



1. Sample Schlieren, Tank Alone, Run 4, $\alpha = 0^\circ$, $M_\infty = 6.99$, $R_e/ft = 0.12 \times 10^6$

Figure 3. - Continued.

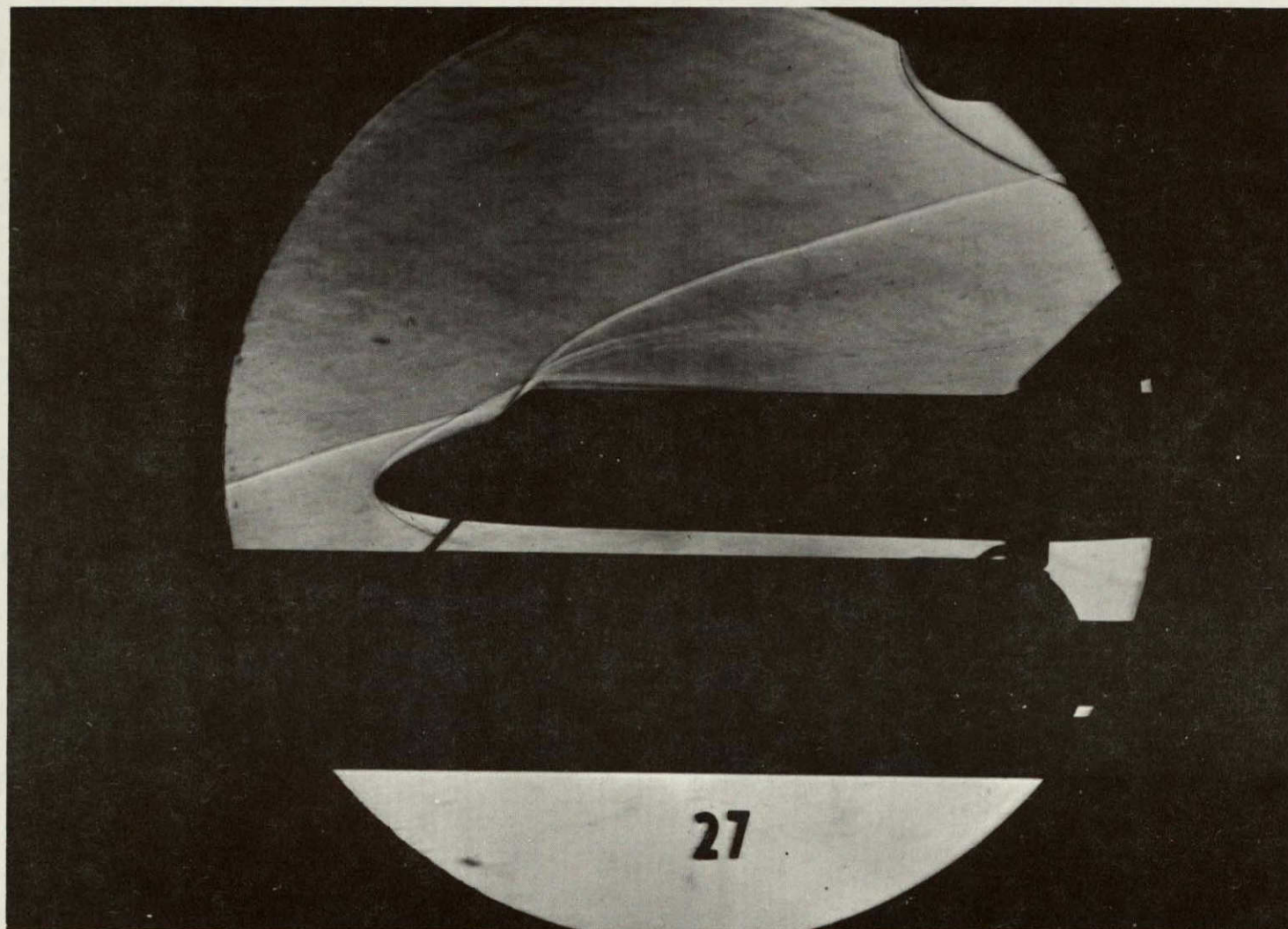


m. Sample Schlieren, Orbiter Alone, Run 25, $\alpha = 30^\circ$, $M_\infty = 7.92$, $R_e/ft = 7.55 \times 10^6$

Figure 3. - Continued.

ORIGINAL PAGE IS
OF POOR QUALITY

51



n. Sample Schlieren, Orbiter/Tank, Run 27, $\alpha = 0^\circ$, $M_\infty = 7.61$, $R_e/ft = 1.20 \times 10^6$

Figure 3. - Concluded.

APPENDIX
TABULATED SOURCE DATA

Tabulations of plotted data are available on request from
Data Management Services

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = .0000 IN
 LREF = 1290 3000 IN. YMRP = 0000 IN.
 BREF = 1290.3000 IN ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = .000 BETA = .000

MACH (1) = 18.360 HAW/HT (1) = .850 RE/FT = .12410-01 PD = 360.50 T0 = 4449 0 H0 = 31.530

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | 1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|
| PHI | | | | | | | | | | | | | | | |
| .000 | .5665 | .2431 | .1050 | | .0395 | | .0233 | .0000 | | | .0156 | .0222 | | | .0000 |
| 30 000 | | | | | | | | | | .0257 | | | | | |
| 180 000 | | | | .1746 | | .1367 | | | .1184 | | | | .0893 | | .0982 |

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1810 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|
| PHI | | | | | | | | | | | | | | | |
| .000 | | .0184 | | | .0118 | | .0088 | .0054 | .0022 | | .0023 | .0007 | .0011 | | .0012 |
| 25.000 | | | | | | | | .0036 | | .0029 | | | | | |
| 30.000 | | | | | | .0178 | | | | | | | | | |
| 180.000 | .1684 | | .2386 | .2885 | | | | | | | | | | | .0081 |

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|--------|--|--|--|--|--|--|--|--|--|
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|--------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|
| PHI | | | | | | | | | | | | | | | |
| .000 | | | .0020 | .0015 | .0012 | .0014 | | | | | | | | | |
| 25 000 | .0024 | | | .0009 | | | | | | | | | | | |
| 180.000 | | .0081 | | | | | | | | | | | | | |

MACH (1) = 18.360 HAW/HT (2) = .900 RE/FT = .12410-01 PD = 360.50 T0 = 4449.0 H0 = 31.530

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | 1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|
| PHI | | | | | | | | | | | | | | | |
| .000 | .5311 | .2279 | .0985 | | .0370 | | .0219 | .0000 | | | .0146 | .0208 | | | .0000 |
| 30 000 | | | | | | | | | | .0241 | | | | | |
| 180.000 | | | | .1637 | | .1281 | | | .1110 | | | | .0837 | | .0921 |

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1810 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|--|-------|-------|-------|-------|-------|-------|-------|--|-------|
| PHI | | | | | | | | | | | | | | | |
| .000 | | .0172 | | | .0111 | | .0083 | .0051 | .0021 | | .0021 | .0006 | .0010 | | .0011 |
| 25.000 | | | | | | | | .0034 | | .0026 | | | | | |
| 30.000 | | | | | | | | | | | | | | | |
| 180 000 | .1579 | | .2237 | .2704 | | | | | | | | | | | .0076 |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/1H21 (CAL HST 173-100) 37 0 T-NP FUSELAGE

(RUG804)

MACH (1) = 18 360 HAW/HT(2) = 900

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .6000 6990 7000 .8000 9000 1 0000

PHI
 .000 0019 0014 0011 0013
 25.000 0022 0008
 180 000 0076

MACH (1) = 18 360 HAW/HT(3) = 1.000 RE/FT = 12410-01 P0 = 360.50 T0 = 4449 0 H0 = 31.530

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 0190 0300 .0420 .0600 0620 .0810 .0910 .1000 .1030 .1220 1260 1420 1500

PHI
 .000 4720 2026 .0875 0329 .0194 .0000 0130 0185 .0000
 30.000 0214
 180.000 1455 1139 .0987 0744 .0818

X/L 1600 .1610 1700 1810 2000 .2010 .2500 .3000 .3500 .3990 .4010 4490 5000 5010 .5970

PHI
 .000 .0153 .0098 0074 .0045 .0018 .0019 0005 .0009 0010
 25.000 .0030 .0023
 30.000 .0149
 180.000 1403 1988 2404 .0067

X/L .6000 6990 7000 .8000 9000 1 0000

PHI
 .000 0017 .0012 .0010 0011
 25 000 .0020 .0007
 180.000 .0067

OH12/1H21 (CAL HST 173-100) 37 0 T FUSELAGE

(RUG805) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT. XMRP = 0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = 0000 IN.
 SCALE = .1000

ALPHA = .000 BETA = .000

MACH (1) = 6.999 HAW/HT(1) = .850 RE/FT = .12050 P0 = 357.80 T0 = 5538.0 H0 = 41.770

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L 0000 0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI
 .000 .6708 3443 .1505 .0720 .0000 .1167 .0593 0117 .0000
 30.000
 180.000 .1727 .1163 .0963 .0693 .0335

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI
 .000 .0206 .0363 .0231 .0190 .0142 .0126 0145 .0156 .0161
 25.000
 30.000 .0293 .0214 .0187
 180.000 .2754 .4122 .3964 .0041

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI
 .000 .0233 .0246 .0068 .0018
 25.000 .0103 .0124
 180.000 .0065

MACH (1) = 6.999 HAW/HT(2) = .900 RE/FT = .12050 P0 = 357.80 T0 = 5538.0 H0 = 41.770

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI
 .000 .6301 .3234 .1414 .0677 .0000 .1096 .0557 .0110 .0000
 30.000
 180.000 .1622 .1092 .0905 .0651 .0315

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI
 .000 .0193 .0341 .0217 .0179 .0133 .0116 .0136 .0147 .0151
 25.000
 30.000 .0275 .0176
 180.000 .2587 .3872 .3724 .0038

OH12/1H21 (CAL HST 173-100) 37 0 T FUSELAGE

(RUG805)

MACH (1) = 6.999 HAW/HT(2) = 900

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | |
|---------|-------|------|------|-------|-------|--------|--|--|--|--|--|--|--|--|
| X/L | .6000 | 6990 | 7000 | .8000 | 9000 | 1.0000 | | | | | | | | |
| PHI | .000 | | 0219 | 0231 | .0063 | .0017 | | | | | | | | |
| 25.000 | 0097 | | | 0116 | | | | | | | | | | |
| 180.000 | | 0061 | | | | | | | | | | | | |

MACH (1), = 6.999 HAW/HT(3) = 1.000 RE/FT = .12050 P0 = 357.80 T0 = 5538.0 H0 = 41.770

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|------|------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | 0070 | 0190 | 0300 | 0420 | .0600 | .0620 | .0810 | 0910 | .1000 | 1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | .000 | 5619 | 2884 | .1261 | | .0603 | .0000 | .0977 | | | .0496 | .0098 | | .0000 | |
| 30.000 | | | | | | | | | 0190 | | | | | | |
| 180.000 | | | | .1446 | | .0974 | | .0807 | | | .0580 | | | .0281 | |

| | | | | | | | | | | | | | | | |
|---------|-------|------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| X/L | .1600 | 1610 | 1700 | .1810 | .2000 | .2010 | 2500 | .3000 | 3500 | 3990 | 4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | .000 | | 0172 | | 0304 | | .0193 | .0159 | .0119 | | .0105 | .0121 | .0131 | | .0135 |
| 25.000 | | | | | | | | 0179 | | 0157 | | | | | |
| 30.000 | | | | | | .0245 | | | | | | | | | |
| 180.000 | 2307 | | 3453 | .3320 | | | | | | | | | | | 0034 |

| | | | | | | | | | | | | | | |
|---------|-------|-------|------|-------|-------|--------|--|--|--|--|--|--|--|--|
| X/L | 6000 | 6990 | 7000 | .8000 | .9000 | 1.0000 | | | | | | | | |
| PHI | .000 | | 0195 | .0206 | .0057 | .0015 | | | | | | | | |
| 25.000 | .0086 | | | .0104 | | | | | | | | | | |
| 180.000 | | .0054 | | | | | | | | | | | | |

MACH (2) = 7.616 HAW/HT(1) = .850 RE/FT = 1.2040 P0 = 519.30 T0 = 2007.0 H0 = 12.750

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0070 | 0190 | .0300 | .0420 | .0600 | .0620 | .0810 | 0910 | .1000 | .1030 | .1220 | .1260 | 1420 | .1500 |
| PHI | .000 | 1.1135 | .4877 | .2001 | | .0653 | .1449 | .2004 | | | .0000 | .0315 | | .0000 | |
| 30.000 | | | | | | | | | | .0772 | | | | | |
| 180.000 | | | | .2200 | | .1481 | | | .1172 | | | .0878 | | .0421 | |

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1810 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | .000 | | 0476 | | .0859 | .0506 | 0350 | 0225 | | .0236 | .0262 | .0275 | | | |

OH12/1H21 (CAL HST 173-100) 37 0 T FUSELAGE

(RUG805)

MACH (2) = 7.616 HAW/HT(1) = .850

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| 25.000 | | | | | | | | .0114 | | .0300 | | | | | |
| 30.000 | | | | | | .0577 | | | | | | | | | |
| 180.000 | .9957 | | .5020 | .4956 | | | | | | | | | | .0069 | |
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| 000 | | | .0198 | .0709 | .0274 | .0076 | | | | | | | | | |
| 25.000 | .0174 | | | .0776 | | | | | | | | | | | |
| 180.000 | | .0142 | | | | | | | | | | | | | |

MACH (2) = 7.616 HAW/HT(2) = .900 RE/FT = 1.2040 P0 = 519.30 T0 = 2007.0 H0 = 12.750

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0500 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | 1.0279 | .4502 | .1847 | | .0603 | | .1338 | .1850 | | | .0000 | .0291 | | .0000 | |
| 30.000 | | | | | | | | | | .0713 | | | | | |
| 180.000 | | | | .2031 | | .1367 | | | .1082 | | | | .0810 | | .0389 |
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .0440 | | | .0793 | | .0468 | .0323 | .0207 | | .0220 | .0242 | .0254 | | .0272 |
| 25.000 | | | | | | | | .0105 | | .0277 | | | | | |
| 30.000 | | | | | | .0533 | | | | | | | | | |
| 180.000 | .9192 | | .4634 | .4575 | | | | | | | | | | | .0064 |
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | .0183 | .0655 | .0253 | .0070 | | | | | | | | | |
| 25.000 | .0161 | | | .0717 | | | | | | | | | | | |
| 180.000 | | .0131 | | | | | | | | | | | | | |

ORIGINAL PAGE IS
OF POOR QUALITY

| | | OH12/IH21 (CAL HST 173-100) 37 0 T FUSELAGE | | | | | | | | | | (RUG805) | | | |
|------------------------|-------|---|-------|-------------------|-------|-------------|-------|-------------|-------|-------------|-------|----------|-------|-------|-------|
| MACH (4) = 19.200 | | HAW/HT(3) = 1.000 | | RE/FT = .43200-01 | | PO = 1602.0 | | TO = 4694 0 | | HO = 33.500 | | | | | |
| SECTION (1) FUSELAGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | 1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| 000 | .5893 | .2359 | .0000 | | .0512 | | .0338 | .0318 | | | .0045 | .0069 | | .0000 | |
| 30 000 | | | | | | | | | | .0375 | | | | | |
| 180.000 | | | | .1507 | | .1127 | | | .0998 | | | .0679 | | .0611 | |
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| 000 | | .0138 | | | .0125 | | .0083 | .0063 | .0051 | | .0019 | .0020 | .0015 | | .0004 |
| 25.000 | | | | | | | | .0062 | | .0032 | | | | | |
| 30.000 | | | | | | .0135 | | | | | | | | | |
| 180.000 | .1205 | | .2008 | .2761 | | | | | | | | | | .0038 | |
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| 000 | | | .0014 | .0014 | .0013 | .0012 | | | | | | | | | |
| 25 000 | .0004 | | | .0006 | | | | | | | | | | | |
| 180.000 | | .0049 | | | | | | | | | | | | | |

ORIGINAL PAGE IS
 OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 T FUSELAGE

(RUG806)

MACH (1) = 19.220 HAW/HT (2) = .900

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI
 .000 .0019 .0005 .0006 .0006
 25.000 0015 .0008
 180.000 .0085

MACH (.1) = 19.220 , HAW/HT (3) = 1.000 RE/FT = .43430-01 P0 = 1614.0 TD = 4695.0 HD = 33.500

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L 0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI
 000 7632 .2738 1647 .0656 .0448 .0350 .0057 .0125 .0000
 30.000 .0437
 180.000 .2541 .1008 .0662 .0539 .0605

X/L 1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI
 .000 .0173 .0200 .0157 .0139 .0107 .0071 .0058 .0038 .0017
 25.000 .0128 .0068
 30.000 .0172
 180.000 .1413 .2655 2541 .0086

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI
 .000 .0017 .0005 .0006 .0006
 25.000 0013 .0007
 180.000 .0076

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE

(RUGB07)

MACH (1) = 6 997 HAW/HT(2) = .900

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI

.000 .0023 .0017 .0015 .0013
.25.000 .0046 .0043
180.000 .0123

MACH (1) = 6 997 HAW/HT(3) = 1.000 RE/FT = .13020 P0 = 384.80 T0 = 5526.0 H0 = 41.700

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI

.000 1.0214 .2314 .0000 .0634 .0000 .0266 .0208 .0160 .0133
30.000 .0000
180.000 .1310 .0937 .0697 .0552 .0479

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 5000 .5010 .5970

PHI

.000 .0115 .0083 .0072 .0052 .0044 .0033 .0031 .0031 .0026
.25.000 .0077 .0062
30.000 .0000
180.000 .2544 .3263 .3157 .0074

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI

.000 .0020 .0015 .0014 .0011
.25.000 .0041 .0038
180.000 .0110

MACH (2) = 7 614 HAW/HT(1) = .850 RE/FT = 1.2320 P0 = 534.30 T0 = 2015.0 H0 = 12.800

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 1500

PHI

.000 1.5633 .3737 .1975 .0971 .0000 .0425 .0300 .0226 .0206
30.000 .0667
180.000 .1936 .1338 .1018 .0736 .0404

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI

.000 .0178 .0146 .0112 .0088 .0069 .0062 .0061 .0057 .0048

ORIGINAL PAGE IS OF POOR QUALITY

OH12/1H21 (CAL HST 173-100) 37 0 FUSELAGE (RUG807)

MACH (2) = 7.614 HAW/HT (3) = 1.000 RE/FT = 1.2320 P0 = 534.30 TO = 2015.0 H0 = 12.800

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI .000 1.2517 .2993 .1581 .0777 .0000 .0341 .0240 .0181 .0165

30.000 .0534 .0589 .0324

180.000 .1550 .1071 .0815 .0589 .0324

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI .000 .0142 .0117 .0089 .0070 .0055 .0050 .0049 .0045 .0038

25.000 .0100 .0084

30.000 .0220

180.000 .3555 .4128 .3455 .0126

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI .000 .0043 .0047 .0042 .0038

25.000 .0072 .0091

180.000 .0130

MACH (3) = 16.060 HAW/HT (1) = 850 RE/FT = .44180-01 P0 = 560.00 TO = 3731.0 H0 = 25.930

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI .000 .8747 .4168 .1867 .0870 .0618 .0472 .0327 .0289 .0000

30.000 .0590 .0848 .0882

180.000 .2085 .1458 .1034 .0848 .0882

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI .000 .0226 .0177 .0138 .0127 .0111 .0104 .0095 .0086 .0057

25.000 .0160 .0107

30.000 .0253

180.000 .1755 .3054 .3615 .0093

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI .000 .0065 .0054 .0048 .0042

25.000 .0074 .0041

180.000 .0091

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 19

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE (RUG807)

MACH (5) = 19.190 HAW/HT (2) = .900 RE/FT = .44400-01 PO = 1603.0 TO = 4644 0 H0 = 33 120

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | 0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | 7059 | .3227 | .1473 | | .0697 | | 0486 | .0364 | | .0441 | | .0242 | 0217 | | 0000 |
| 30 000 | | | | | | | | | | | | | .0563 | | .0932 |
| 180 000 | | | | .1621 | | .1182 | | | .0856 | | | | | | |
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | 2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | 5010 | 5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .0182 | | | .0151 | | .0118 | .0103 | .0090 | | .0089 | .0072 | .0064 | | .0064 |
| 25.000 | | | | | | | | 0100 | | .0083 | | | | | |
| 30 000 | | | | | | 0177 | | | | | | | | | |
| 180 000 | .1407 | | .2054 | 3483 | | | | | | | | | | | .0063 |
| X/L | 6000 | .6990 | 7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | .0058 | .0038 | .0045 | 0033 | | | | | | | | | |
| 25.000 | .0055 | | | .0041 | | | | | | | | | | | |
| 180 000 | | .0058 | | | | | | | | | | | | | |

MACH (5) = 19.190 HAW/HT (3) = 1.000 RE/FT = .44400-01 PO = 1603.0 TO = 4644.0 H0 = 33.120

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | .6279 | .2971 | .1310 | | .0620 | | .0432 | .0324 | | .0393 | | .0215 | .0193 | | .0000 |
| 30.000 | | | | | | | | | | | | | .0501 | | .0829 |
| 180.000 | | | | .1442 | | .1051 | | | .0761 | | | | | | |
| X/L | .1600 | .1610 | .1700 | .1810 | 2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | 5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .0182 | | | 0134 | | 0105 | .0091 | .0080 | | 0079 | .0064 | .0057 | | .0057 |
| 25.000 | | | | | | | | .0089 | | .0074 | | | | | |
| 30 000 | | | | | | 0157 | | | | | | | | | |
| 180 000 | .1252 | | .1827 | .3098 | | | | | | | | | | | .0056 |
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | .0052 | .0034 | 0040 | 0029 | | | | | | | | | |
| 25 000 | 0049 | | | .0036 | | | | | | | | | | | |
| 180.000 | | .0052 | | | | | | | | | | | | | |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE

(RUG808)

MACH (1) = 19.180 HAW/HT(2) = .900

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | |
|---------|-------|-------|-------|-------|-------|--------|
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 |
| PHI | | | | | | |
| .000 | | | .0045 | .0038 | .0033 | .0023 |
| 25.000 | .0030 | | | .0028 | | |
| 180.000 | | .0102 | | | | |

MACH (1) = 19.180 HAW/HT(3) = 1.000 RE/FT = .45790-01 P0 = 1649.0 T0 = 4641.0 H0 = 33.120

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | .5750 | .1964 | .1072 | | .0493 | | .0319 | .0236 | | | .0215 | .0050 | | .0000 | |
| 30.000 | | | | | | | | | .0292 | | | | | | |
| 180.000 | | | | .1600 | | .1298 | | | .0989 | | | | .0797 | | .0843 |

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .0108 | | | .0088 | | .0065 | .0071 | .0050 | | .0052 | .0041 | .0045 | | .0041 |
| 25.000 | | | | | | | | .0057 | | .0059 | | | | | |
| 30.000 | | | | | | .0124 | | | | | | | | | |
| 180.000 | .1901 | | .2931 | .3782 | | | | | | | | | | | .0113 |

| | | | | | | |
|---------|-------|-------|-------|-------|-------|--------|
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 |
| PHI | | | | | | |
| .000 | | | .0040 | .0034 | .0029 | .0021 |
| 25.000 | .0027 | | | .0025 | | |
| 180.000 | | .0091 | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE

(RUG809)

MACH (1) = 18.360 HAW/HT (2) = 900

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .6000 .6990 .7000 .8000 9000 1.0000

PHI
 000 .0172 .0146 .0132 .0121
 25.000 .0173 .0172
 180.000 .0016

MACH (1) = 18.360 HAW/HT (3) = 1 000, RE/FT = .12480-01 P0 = 347 10 T0 = 4373.0 H0 = 30.890

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .0000 0070 .0190 .0300 .0420 0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI
 000 5836 3841 2069 .0944 .0771 .0566 .0419 .0366 .0000
 30.000 .0595
 180 000 .0821 .0434 .0394 .0268 .0330

X/L 1600 1610 .1700 .1810 2000 2010 .2500 .3000 .3500 .3990 .4010 4490 .5000 .5010 .5970

PHI
 000 0323 .0266 0222 .0235 .0198 0141 .0173 .0173 .0150
 25 000 .0215 .0213
 30 000 .0348
 180 000 .0578 .0656 .0938 .0032

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI
 .000 .0153 .0130 .0117 .0108
 25.000 .0154 .0153
 180.000 .0014

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE

(RUGB10) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = .0000 IN
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 25 000 BETA = .000

MACH (1) = 6.973 HAW/HT(1) = 850 RE/FT = .12370 P0 = 373 20 T0 = 5587 0 H0 = 42 320

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

X/L .0000 0070 0190 .0300 .0420 .0600 .0620 .0810 .0910 1000 .1030 1220 .1260 1420 .1500

PHI
 .000 .0000 6403 .3757 2238 .1692 .1350 .1121 0990 .0946
 30 000 1514
 180 000 .0464 0214 .0135 .0081 .0051

X/L .1600 1610 1700 .1810 2000 2010 .2500 .3000 .3500 3990 4010 4490 5000 .5010 5970

PHI
 000 .0849 0773 0723 .0668 .0615 0568 0558 .0584 .0564
 25 000 .0719 .0638
 30 000 0985
 180 000 .0165 .0304 .0338 .0043

X/L 6000 6990 .7000 .8000 9000 1 0000

PHI
 000 .0505 0470 0403 0260
 25 000 0559 0502
 180 000 0044 *

MACH (1) = 6.973 HAW/HT(2) = 900 RE/FT = .12370 P0 = 373.20 T0 = 5587.0 H0 = 42.320

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

X/L .0000 0070 .0190 .0300 .0420 .0600 .0620 .0810 0910 .1000 1030 .1220 .1260 .1420 .1500

PHI
 .000 .0000 .6015 .3530 .2102 .1589 .1268 .1053 .0930 .0888
 30 000 1422
 180.000 .0436 .0201 .0127 .0076 0048

X/L .1600 .1610 1700 1810 2000 .2010 2500 .3000 .3500 3990 .4010 .4490 5000 .5010 .5970

PHI
 .000 .0798 0726 .0679 .0628 .0577 .0534 .0524 .0549 .0530
 25 000 .0575 .0599
 30.000 .0925
 180 000 .0155 0285 0318 .0041

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE (RUGB10)

MACH (1) = 6.973 HAM/HT(2) = .900

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | |
|---------|-------|-------|-------|-------|-------|--------|
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 |
| PHI | | | | | | |
| .000 | | | .0475 | .0441 | .0378 | .0245 |
| 25.000 | .0525 | | | .0472 | | |
| 180.000 | | .0041 | | | | |

MACH (1) = 6.973 HAM/HT(3) = 1.000 RE/FT = .12370 PO = 373.20 TO = 5587.0 HO = 42.320

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | .0000 | .5365 | .3148 | | .1875 | | .1417 | .1131 | | | .0939 | .0830 | | .0792 | |
| 30.000 | | | | | | | | | | .1269 | | | | | |
| 180.000 | | | | .0389 | | .0180 | | | .0113 | | | | .0068 | | .0043 |

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | 3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .0712 | | | .0648 | | .0606 | .0560 | .0515 | | .0476 | .0467 | .0490 | | .0473 |
| 25.000 | | | | | | | | .0602 | | .0534 | | | | | |
| 30.000 | | | | | | .0825 | | | | | | | | | |
| 180.000 | .0138 | | .0255 | .0283 | | | | | | | | | | | .0036 |

| | | | | | | |
|---------|-------|-------|-------|-------|-------|--------|
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 |
| PHI | | | | | | |
| .000 | | | .0423 | .0394 | .0337 | .0218 |
| 25.000 | .0468 | | | .0421 | | |
| 180.000 | | .0036 | | | | |

MACH (2) = 7.921 HAM/HT(1) = .850 RE/FT = 7.3310 PO = 2181.0 TO = 1560.0 HO = 9.9040

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | 1.1301 | 2.1831 | .7761 | | .2866 | | .2235 | .1843 | | | .1548 | .1192 | | .0000 | |
| 30.000 | | | | | | | | | | .2195 | | | | | |
| 180.000 | | | | .0522 | | .0213 | | | .0129 | | | | .0081 | | .0100 |

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | 3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | | | | | | | | | | | | | |
| 000 | | .2537 | | | .2589 | | .2654 | .2877 | .2638 | | .2973 | .3208 | .2966 | | .3026 |

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE (RUG810)
 MACH (4) = 10.450 HAW/HT(1) = .850 RE/FT = .91170 PO = 2714.0 T0 = 3466.0 H0 = 23.370

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | 1.000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | .8454 | .7950 | .5162 | | .2710 | | .2052 | .1666 | | | .1317 | .1087 | | | .0000 |
| 30.000 | | | | | | | | | | .2081 | | | | | |
| 180.000 | | | | .0497 | | .0221 | | | .0131 | | | | .0083 | | .0036 |
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .1147 | | | .1240 | | .1069 | .1007 | .1085 | | .0806 | .0866 | .0891 | | .0926 |
| 25.000 | | | | | | | | .0979 | | .0919 | | | | | |
| 30.000 | | | | | | .1397 | | | | | | | | | |
| 180.000 | .0199 | | .0512 | .0624 | | | | | | | | | | | .0067 |
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | .0815 | .0769 | .0558 | .0363 | | | | | | | | | |
| 25.000 | .0898 | | | .0660 | | | | | | | | | | | |
| 180.000 | | .0056 | | | | | | | | | | | | | |

MACH (4) = 10.450 HAW/HT(2) = .900 RE/FT = .91170 PO = 2714.0 T0 = 3466.0 H0 = 23.370

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | 1.000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | .7900 | .7429 | .4824 | | .2532 | | .1918 | .1557 | | | .1231 | .1016 | | | .0000 |
| 30.000 | | | | | | | | | | .1945 | | | | | |
| 180.000 | | | | .0465 | | .0206 | | | .0122 | | | | .0077 | | .0033 |
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .1072 | | | .1158 | | .0999 | .0941 | .1014 | | .0753 | .0810 | .0832 | | .0866 |
| 25.000 | | | | | | | | .0915 | | .0859 | | | | | |
| 30.000 | | | | | | .1306 | | | | | | | | | |
| 180.000 | .0186 | | .0479 | .0583 | | | | | | | | | | | .0062 |
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | .0762 | .0718 | .0521 | .0339 | | | | | | | | | |
| 25.000 | .0839 | | | .0617 | | | | | | | | | | | |
| 180.000 | | .0052 | | | | | | | | | | | | | |

ORIGINAL PAGE IS OF POOR QUALITY

| | | OH12/IH21 (CAL HST 173-100) 37 0 | | | | | | | | | | FUSELAGE (RUG810) | | | |
|------------------------|---------|----------------------------------|-------|---------|--------|--------|--------|-------|--------|-------|--------|-------------------|-------|-------|-------|
| MACH (4) = | 10.450 | HAW/HT(3) = | 1.000 | RE/FT = | 91170 | PO = | 2714 0 | TO = | 3466 0 | HO = | 23 370 | | | | |
| SECTION (1) FUSELAGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
| X/L | 0000 | .0070 | 0190 | 0300 | .0420 | .0600 | 0620 | .0810 | 0910 | 1000 | 1030 | .1220 | 1260 | 1420 | 1500 |
| PHI | 000 | 6985 | 6568 | .4265 | | 2239 | | .1696 | 1377 | | | 1089 | .0898 | | 0000 |
| | 30 000 | | | | | | | | | 1720 | | | | | |
| | 180 000 | | | 0411 | | .0182 | | | 0108 | | | | 0068 | | .0029 |
| X/L | 1600 | 1810 | 1700 | 1810 | 2000 | 2010 | 2500 | 3000 | 3500 | 3990 | 4010 | .4490 | .5000 | 5010 | .5970 |
| PHI | 000 | | 0948 | | .1024 | | .0884 | 0832 | 0897 | | | 0666 | 0716 | 0736 | .0765 |
| | 25 000 | | | | | | | 0809 | | 0759 | | | | | |
| | 30 000 | | | | | .1154 | | | | | | | | | |
| | 180 000 | .0164 | | .0423 | .0516 | | | | | | | | | | .0055 |
| X/L | .6000 | .6990 | .7000 | .8000 | 9000 | 1.0000 | | | | | | | | | |
| PHI | 000 | | 0674 | .0635 | 0461 | .0300 | | | | | | | | | |
| | 25 000 | .0742 | | 0546 | | | | | | | | | | | |
| | 180.000 | | 0046 | | | | | | | | | | | | |
| MACH (5) = | 12.220 | HAW/HT(1) = | .850 | RE/FT = | .26170 | PO = | 1591.0 | TO = | 3838.0 | HO = | 26 430 | | | | |
| SECTION (1) FUSELAGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
| X/L | .0000 | 0070 | 0190 | .0300 | .0420 | .0600 | .0620 | .0810 | 0910 | .1000 | .1030 | 1220 | 1260 | .1420 | .1500 |
| PHI | 000 | 8238 | 7784 | .4390 | | 2612 | | .1850 | .1397 | | | 1298 | .1107 | | .0000 |
| | 30.000 | | | | | | | | | 1889 | | | | | |
| | 180 000 | | | .0518 | | 0278 | | | .0161 | | | | .0100 | | .0102 |
| X/L | .1600 | .1810 | 1700 | 1810 | .2000 | 2010 | .2500 | .3000 | .3500 | .3990 | 4010 | 4490 | .5000 | .5010 | .5970 |
| PHI | .000 | | .1075 | | .0000 | | .0856 | .0869 | .0794 | | | 0695 | .0767 | .0854 | .0657 |
| | 25.000 | | | | | | | .0862 | | .0940 | | | | | |
| | 30.000 | | | | | .1283 | | | | | | | | | |
| | 180.000 | .0132 | | .0237 | .0307 | | | | | | | | | | .0034 |
| X/L | .6000 | .6990 | .7000 | .8000 | 9000 | 1.0000 | | | | | | | | | |
| PHI | .000 | | .0652 | .0628 | .0485 | .0287 | | | | | | | | | |
| | 25.000 | .0736 | | .0601 | | | | | | | | | | | |
| | 180.000 | | .0043 | | | | | | | | | | | | |

OH12/1H21 (CAL HST 173-100) 37 0 FUSELAGE (RU0811)

MACH (1) = 7.011 HAW/HT (2) = .900

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L 6000 .6990 .7000 .8000 9000 1.0000

PHI
 000 0594 .0534 .0440 0317
 25 000 .0622 .0542
 180 000 .0043

MACH (1) = 7.011 HAW/HT (3) = 1.000 RE/FT = .13080 P0 = 370.80 T0 = 5426.0 H0 = 40.760

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L 0000 .0070 .0190 .0300 0420 .0600 0620 .0810 .0910 .1000 .1030 1220 .1260 1420 .1500

PHI
 .000 0000 .5457 .3419 2210 .1513 .1290 .1127 .1019 0938
 30 000 .1380
 180 000 .0290 0155 .0090 .0055 .0050

X/L .1600 .1610 1700 1810 2000 .2010 .2500 .3000 .3500 .3990 .4010 4490 .5000 .5010 5970

PHI
 000 0894 0802 0732 .0686 .0642 0600 .0587 .0614 0545
 25 000 .0727 .0673
 30 000 0935
 180 000 .0127 0212 0233 .0032

X/L .6000 6990 .7000 .8000 9000 1.0000

PHI
 000 .0529 .0476 .0392 0283
 25 000 0554 0483
 180 000 .0038

MACH (2) = 7.890 HAW/HT (1) = 0.950 RE/FT = 75740 P0 = 782.80 T0 = 3018.0 H0 = 19.990

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .0000 0070 .0190 .0300 .0420 0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI
 000 .7465 .7776 .5568 .3008 .2367 .1917 .1597 .1450 .1255
 30.000 .2158
 180.000 .0368 .0163 .0105 .0080 .0074

X/L .1800 .1810 .1700 .1810 2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI
 000 .1182 1311 .1296 .0999 .0949 0949 .0901 .0912

OH12/IH21 (CAL HST 173-100) 37 0

FUSELAGE

(RUGB11)

MACH (2) = 7 890 HAW/HT(1) = .850

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| 25 000 | | | | | | | | .1105 | .1030 | | | | | | |
| 30.000 | | | | | | .1452 | | | | | | | | | |
| 180.000 | .0367 | | .0515 | .0522 | | | | | | | | | | .0072 | |
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| 000 | | | .0763 | .0714 | .0555 | .0365 | | | | | | | | | |
| 25 000 | .0771 | | | .0648 | | | | | | | | | | | |
| 180.000 | | .0064 | | | | | | | | | | | | | |

MACH (2) = 7 890 HAW/HT(2) = .900 RE/FT = .75740 PC = 782.80 TO = 3018 0 HO = 19.990

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | 0000 | 0070 | .0190 | .0300 | .0420 | 0600 | 0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | 1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| 000 | .6962 | .7252 | .5193 | | .2805 | | .2207 | .1788 | | | .1490 | .1352 | | .1171 | |
| 30 000 | | | | | | | | | | .2013 | | | | | |
| 180 000 | | | | .0342 | | .0152 | | | .0098 | | | | .0074 | | .0069 |
| X/L | 1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| 000 | | .1103 | | | .1222 | | .1208 | .0932 | .0885 | | .0885 | .0840 | .0851 | | .0763 |
| 25.000 | | | | | | | | .1030 | | .0961 | | | | | |
| 30 000 | | | | | | | .1354 | | | | | | | | |
| 180 000 | .0342 | | .0480 | .0486 | | | | | | | | | | | .0067 |
| X/L | 6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| 000 | | | .0712 | .0666 | .0518 | .0340 | | | | | | | | | |
| 25.000 | .0719 | | | .0604 | | | | | | | | | | | |
| 180 000 | | .0060 | | | | | | | | | | | | | |

ORIGINAL PAGE IS OF POOR QUALITY

| | | OH12/IH21 (CAL HST 173-100) 37 0 | | | | | | | | | | FUSELAGE (RUGB11) | | | |
|------------------------|--------|----------------------------------|--------|---------|--------|--------|--------|-------|--------|-------|--------|-------------------|-------|-------|-------|
| MACH (2) = | 7.890 | HAW/HT(3) = | 1.000 | RE/FT = | 75740 | P0 = | 782.80 | T0 = | 3018 0 | H0 = | 19 990 | | | | |
| SECTION (1) FUSELAGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
| X/L | .0000 | .0070 | 0190 | 0300 | .0420 | 0600 | .0620 | .0810 | .0910 | 1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| 000 | 6135 | 6391 | 4576 | | .2472 | | .1945 | 1575 | | | 1313 | 1192 | | 1032 | |
| 30 000 | | | | | | | | | | 1774 | | | | | |
| 180 000 | | | | .0301 | | .0134 | | | 0086 | | | | 0065 | | 0061 |
| X/L | 1600 | .1610 | .1700 | .1810 | 2000 | 2010 | .2500 | 3000 | 3500 | 3990 | .4010 | .4490 | .5000 | 5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| 000 | | 0972 | | | .1077 | | 1065 | 0821 | 0780 | | .0780 | .0740 | 0750 | | 0672 |
| 25 000 | | | | | | | | 0908 | | .0847 | | | | | |
| 30.000 | | | | | | 1193 | | | | | | | | | |
| 180.000 | 0302 | | .0423 | .0429 | | | | | | | | | | | .0059 |
| X/L | .6000 | 6990 | 7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| 000 | | | .0627 | 0587 | .0456 | .0300 | | | | | | | | | |
| 25 000 | 0633 | | | .0533 | | | | | | | | | | | |
| 180 000 | | 0053 | | | | | | | | | | | | | |
| MACH (3) = | 7 922 | HAW/HT(1) = | 850 | RE/FT = | 7.5500 | P0 = | 2310 0 | T0 = | 1591 0 | H0 = | 10 090 | | | | |
| SECTION (1) FUSELAGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
| X/L | 0000 | 0070 | 0190 | .0300 | 0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | 1500 |
| PHI | | | | | | | | | | | | | | | |
| 000 | 1 0501 | 1 2166 | 1 2008 | | .6024 | | .3632 | 3619 | | | .3083 | .3194 | | .0000 | |
| 30.000 | | | | | | | | | | 3933 | | | | | |
| 180 000 | | | | .0409 | | 0166 | | | .0111 | | | | 0145 | | 0147 |
| X/L | .1600 | 1610 | 1700 | .1810 | .2000 | .2010 | .2500 | 3000 | .3500 | .3990 | .4010 | .4490 | .5000 | 5010 | 5970 |
| PHI | | | | | | | | | | | | | | | |
| 000 | | 4188 | | | 3849 | | .3217 | .3963 | .4056 | | 3813 | 3940 | .4193 | | 3614 |
| 25 000 | | | | | | | | 4322 | | 4491 | | | | | |
| 30.000 | | | | | | 3854 | | | | | | | | | |
| 180.000 | 1106 | | .0796 | 0728 | | | | | | | | | | | .0134 |
| X/L | .6000 | 6990 | .7000 | 8000 | 9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| 000 | | | .4045 | 4310 | 3166 | .3009 | | | | | | | | | |
| 25.000 | 3792 | | | 3967 | | | | | | | | | | | |
| 180 000 | | 0104 | | | | | | | | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE (RUGB11)

MACH (6) = 16 070 HAW/HT (1) = .850 RE/FT = 45820-01 P0 = 560 60 TO = 3667.0 HO = 25.040

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | 0000 | .0070 | 0190 | .0300 | 0420 | .0600 | 0620 | .0810 | .0910 | 1000 | .1030 | .1220 | .1260 | .1420 | 1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | 6995 | .7446 | 4772 | | .2792 | | 2171 | .1927 | | | .1614 | 1420 | | .0000 | |
| 30 000 | | | | | | | | | | .2014 | | | | | |
| 180.000 | | | | .0429 | | .0210 | | | .0176 | | | | .0121 | | .0133 |
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .1333 | | .1214 | | .1027 | .0970 | .0923 | | .0919 | .0943 | .0828 | | | .0766 |
| 25 000 | | | | | | | .0953 | | .0950 | | | | | | |
| 30 000 | | | | | | 1262 | | | | | | | | | |
| 180 000 | .0148 | | .0178 | 0173 | | | | | | | | | | | .0022 |
| X/L | 6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | .0714 | .0680 | .0546 | .0404 | | | | | | | | | |
| 25 000 | 0811 | | | .0658 | | | | | | | | | | | |
| 180 000 | | 0053 | | | | | | | | | | | | | |

MACH (6) = 16.070 HAW/HT (2) = .900 RE/FT = .45820-01 P0 = 560.60 TO = 3667.0 HO = 25.040

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | 0000 | 0070 | .0190 | 0300 | 0420 | .0600 | 0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | 6543 | .6965 | 4464 | | .2612 | | .2031 | .1802 | | | .1509 | .1328 | | .0000 | |
| 30.000 | | | | | | | | | | .1884 | | | | | |
| 180 000 | | | | .0401 | | .0196 | | | .0165 | | | | .0114 | | .0125 |
| X/L | 1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .1247 | | .1136 | | .0961 | .0908 | .0864 | | .0860 | .0882 | .0774 | | | .0717 |
| 25 000 | | | | | | | .0892 | | .0888 | | | | | | |
| 30 000 | | | | | | .1180 | | | | | | | | | |
| 180.000 | 0138 | | .0166 | .0162 | | | | | | | | | | | .0021 |
| X/L | 6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | .0668 | .0636 | .0511 | .0378 | | | | | | | | | |
| 25 000 | .0759 | | | .0616 | | | | | | | | | | | |
| 180 000 | | 0050 | | | | | | | | | | | | | |

ORIGINAL PAGE IS
OF POOR QUALITY.

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE (RUGB12)

MACH (1) = 6.993 HAW/HT (2) = .800

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI

.000 .0000 .0000 .0000 .0000 .0421
 25.000 .1167 .1063
 180.000 .0044

MACH (1) = 6.993 HAW/HT (3) = 1.000 RE/FT = 12520 PO = 363.90 TO = 5492.0 HO = 41.400

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI

.000 .6740 .6402 .6142 .3775 .0000 .2691 .0000 .2006 .1655
 30.000 .2139
 180.000 .0203 .0095 .0067 .0048 .0055

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI

.000 .1587 .1587 .1398 .1352 .1244 .0000 .0000 .1200 .1055
 25.000 .1711
 30.000 .1830
 180.000 .0161 .0260 .0294 .0026

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI

.000 .0000 .0000 .0000 .0376
 25.000 .1040 .0948
 180.000 .0039

MACH (2) = 7.922 HAW/HT (1) = .850 RE/FT = 7.5700 PO = 2199.0 TO = 1538.0 HO = 9.7660

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI

.000 .0000 1.4671 1.9070 .5434 .3348 .3354 .3258 .3538 .4646
 30.000 .4203
 180.000 .0280 .0116 .0141 .0226 .0256

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI

.000 .4800 .4796 .3753 .4697 .5049 .0000 .4619 4190 .5349

| | | OH12/IH21 (CAL HST 173-100) 37 0 | | | | | | | FUSELAGE (RUGB12) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-------|----------------------------------|--------|-------|-------|--------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|-------------|--|--|--|--|--|--|-------------|--|--|--|--|--|--|-------------|--|--|--|--|--|--|
| MACH (2) = 7.922 | | HAW/HT (1) = .650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SECTION (1) FUSELAGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X/L | .1600 | 1610 | 1700 | 1810 | 2000 | 2010 | 2500 | .3000 | .3500 | .3990 | 4010 | 4490 | .5000 | .5010 | .5970 | | | | | | | | | | | | | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25.000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180.000 | .1090 | 0773 | | .0649 | | | | 4880 | 4890 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X/L | .6000 | 6990 | 7000 | 8000 | 9000 | 1.0000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 000 | | | 4307 | 4639 | 3442 | 3071 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25.000 | .5004 | | | 4150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180.000 | 0100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MACH (2) = 7.922 | | HAW/HT (2) = 900 | | | | | | | RE/FT = 7.5700 | | | | | | | P0 = 2199.0 | | | | | | | T0 = 1538.0 | | | | | | | H0 = 9.7660 | | | | | | |
| SECTION (1) FUSELAGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X/L | 0000 | 0070 | 0190 | 0300 | 0420 | 0600 | .0620 | .0810 | .0910 | 1000 | .1030 | .1220 | .1260 | 1420 | .1500 | | | | | | | | | | | | | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .000 | 0000 | 1.3400 | 1.7418 | | | .4963 | 3058 | | 3063 | | | .2976 | 3232 | .4244 | | | | | | | | | | | | | | | | | | | | | | |
| 30.000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180.000 | | | .0256 | | | .0106 | | | .0128 | 3839 | | 0207 | | 0234 | | | | | | | | | | | | | | | | | | | | | | |
| X/L | 1600 | 1610 | .1700 | .1810 | 2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | 4490 | .5000 | 5010 | 5970 | | | | | | | | | | | | | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 000 | 4384 | | | | 4380 | .3428 | | .4290 | .4611 | 0000 | | .4219 | .3827 | .4886 | | | | | | | | | | | | | | | | | | | | | | |
| 25.000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180.000 | 0995 | 0706 | | 0593 | | | .3930 | | | 4466 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X/L | 6000 | 6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 000 | | | .3934 | .4237 | .3144 | .2805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25.000 | 4571 | | | .3790 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180.000 | .0091 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE (RUG812)
 MACH (4) = 10.730 HAW/HT(1) = .850 RE/FT = 1.9260 P0 = 3618.0 T0 = 2727.0 H0 = 17.750

| SECTION () FUSELAGE | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | | |
|----------------------|---------------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | 0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | 1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | .8206 | .8749 | .6107 | | 3071 | | 2519 | .1980 | | | 1630 | .1465 | | .0000 | |
| 30.000 | | | | | | | | | | .2544 | | | | | |
| 180.000 | | | | .0360 | | .0172 | | | .0079 | | | | .0072 | | .0101 |
| X/L | 1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | 4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .1493 | | | 1383 | | .1196 | .1208 | .1109 | | .1026 | 1150 | 1084 | | .1013 |
| 25.000 | | | | | | | | .1113 | | .0988 | | | | | |
| 30.000 | | | | | | .1707 | | | | | | | | | |
| 180.000 | .0439 | | .0537 | .0610 | | | | | | | | | | | .0053 |
| X/L | .6000 | .6990 | .7000 | .8000 | 9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | .0916 | .0949 | .0703 | .0510 | | | | | | | | | |
| 25.000 | 1042 | | | .0729 | | | | | | | | | | | |
| 180.000 | | .0060 | | | | | | | | | | | | | |

MACH (4) = 10.730 HAW/HT(2) = .900 RE/FT = 1.9260 P0 = 3618.0 T0 = 2727.0 H0 = 17.750

| SECTION () FUSELAGE | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | | |
|----------------------|---------------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | 1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | .7638 | .8143 | .5684 | | .2859 | | .2345 | .1843 | | | .1517 | .1364 | | .0000 | |
| 30.000 | | | | | | | | | | .2368 | | | | | |
| 180.000 | | | | .0335 | | .0160 | | | .0072 | | | | .0067 | | .0094 |
| X/L | 1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | 4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .1390 | | | .1288 | | .1114 | .1126 | .1032 | | .0955 | .1070 | .1009 | | .0943 |
| 25.000 | | | | | | | | .1036 | | .0920 | | | | | |
| 30.000 | | | | | | .1589 | | | | | | | | | |
| 180.000 | .0409 | | .0500 | .0568 | | | | | | | | | | | .0050 |
| X/L | 6000 | .6990 | .7000 | .8000 | 9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | .0759 | .0789 | .0655 | .0475 | | | | | | | | | |
| 25.000 | .0969 | | | .0678 | | | | | | | | | | | |
| 180.000 | | .0055 | | | | | | | | | | | | | |

ORIGINAL PAGE IS
 OF POOR QUALITY

| | | OH12/IH21 (CAL HST 173-100) 37 0 | | | | | | | | | | FUSELAGE (RUGB12) | | | |
|------------------------|--------|----------------------------------|-------|---------|--------|--------|--------|-------|--------|-------|--------|-------------------|-------|-------|-------|
| MACH (5) = | 12.230 | HAW/HT(2) = | .900 | RE/FT = | .26590 | P0 = | 1621.0 | T0 = | 3839.0 | H0 = | 26.440 | | | | |
| SECTION (1) FUSELAGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | .6306 | .6631 | .5095 | | 3059 | | .2174 | .1869 | | | .1595 | .1601 | | | .0000 |
| 30 000 | | | | | | | | | | .2093 | | | | | |
| 180 000 | | | | .0242 | | .0119 | | | 0090 | | | | .0061 | | 0063 |
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .1381 | | | .1273 | | .1117 | .1096 | .1031 | | .1011 | .0896 | .0852 | | .0788 |
| 25.000 | | | | | | | | .1175 | | .1058 | | | | | |
| 30.000 | | | | | | .1256 | | | | | | | | | |
| 180 000 | .0130 | | .0205 | .0262 | | | | | | | | | | | .0028 |
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | .0806 | .0697 | .0592 | .0432 | | | | | | | | | |
| 25.000 | .0813 | | | .0742 | | | | | | | | | | | |
| 180.000 | | .0038 | | | | | | | | | | | | | |
| MACH (5) = | 12.230 | HAW/HT(3) = | 1.000 | RE/FT = | .26590 | P0 = | 1621.0 | T0 = | 3839.0 | H0 = | 26.440 | | | | |
| SECTION (1) FUSELAGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | .5590 | .5878 | .4516 | | .2712 | | .1927 | .1657 | | | .1414 | .1419 | | | .0000 |
| 30.000 | | | | | | | | | | .1855 | | | | | |
| 180 000 | | | | .0215 | | .0105 | | | .0080 | | | | .0054 | | .0056 |
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .1224 | | | .1128 | | .0990 | .0971 | .0914 | | .0896 | .0794 | .0755 | | .0699 |
| 25 000 | | | | | | | | .1042 | | .0937 | | | | | |
| 30 000 | | | | | | .1114 | | | | | | | | | |
| 180.000 | .0116 | | .0182 | .0232 | | | | | | | | | | | .0025 |
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | .0715 | .0618 | .0525 | .0383 | | | | | | | | | |
| 25 000 | .0721 | | | .0658 | | | | | | | | | | | |
| 180 000 | | .0033 | | | | | | | | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0

FUSELAGE

(RUGB13) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 40.000 BETA = .000

MACH (1) = 7.921 HAW/HT(1) = 850 RE/FT = 7.4790 P0 = 2300 0 T0 = 1596.0 H0 = 10 120

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

PHI

| | | | | | | | | | | | | | | | |
|---------|-------|--------|--------|-------|-------|-------|-------|-------|-------|--|-------|-------|-------|--|-------|
| 000 | .8400 | 1.4476 | 1.3858 | | .6673 | | .4694 | .5509 | | | .4823 | .4937 | .4967 | | .5496 |
| 30 000 | | | | | | | | | | | | | | | |
| 180.000 | | | | .0217 | | .0141 | | | .0295 | | | | .0377 | | .0396 |

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

PHI

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|--|-------|-------|-------|-------|-------|-------|-------|--|--|-------|
| .000 | | .5864 | | .5207 | | .4491 | .5360 | .6092 | | .5292 | .5097 | .5237 | | | .5256 |
| 25.000 | | | | | | | .6125 | | .6062 | | | | | | |
| 30.000 | | | | | | .5148 | | | | | | | | | |
| 180 000 | .1426 | | .1282 | .1290 | | | | | | | | | | | .0073 |

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|--------|--|--|--|--|--|--|--|--|--|
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|--------|--|--|--|--|--|--|--|--|--|

PHI

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|
| .000 | | | .4699 | .5114 | .4562 | .4276 | | | | | | | | | |
| 25.000 | .5287 | | | .5484 | | | | | | | | | | | |
| 180.000 | | .0107 | | | | | | | | | | | | | |

MACH (1) = 7.921 HAW/HT(2) = .900 RE/FT = 7.4790 P0 = 2300.0 T0 = 1596.0 H0 = 10.120

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

PHI

| | | | | | | | | | | | | | | | |
|---------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|
| 000 | .7684 | 1.3242 | 1.2675 | | .6104 | | .4294 | .5039 | | | .4617 | .4543 | | | .5028 |
| 30.000 | | | | | | | | | | .4412 | | | | | |
| 180.000 | | | | .0199 | | .0129 | | | .0270 | | | | .0345 | | .0362 |

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

PHI

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|--|-------|-------|-------|-------|-------|-------|-------|--|--|-------|
| 000 | | .5364 | | .4764 | | .4108 | .4903 | .5573 | | .4841 | .4663 | .4790 | | | .4808 |
| 25 000 | | | | | | | .5603 | | .5546 | | | | | | |
| 30.000 | | | | | | .4710 | | | | | | | | | |
| 180.000 | .1304 | | .1172 | .1180 | | | | | | | | | | | .0067 |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE (RUG813)

MACH (1) = 7.921 MAW/HT(2) = .900

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | |
|---------|-------|-------|-------|-------|-------|--------|
| X/L | .6000 | .6990 | 7000 | .8000 | 9000 | 1.0000 |
| PHI | | | | | | |
| 000 | | | .4298 | .4678 | .4173 | .3911 |
| 25.000 | 4837 | | | .5016 | | |
| 180.000 | | 0098 | | | | |

MACH (1) = 7.921 MAW/HT(3) = 1.000 RE/FT = 7.4790 P0 = 2300.0 T0 = 1596.0 H0 = 10.120

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | 0070 | 0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | 1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| 000 | 6565 | 1.1314 | 1.0829 | | .5215 | | 3668 | 4305 | | | .3859 | .3882 | | .4296 | |
| 30.000 | | | | | | | | | | .3769 | | | | | |
| 180.000 | | | | .0170 | | .0110 | | | .0231 | | | | .0294 | | 0309 |

| | | | | | | | | | | | | | | | |
|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| X/L | 1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | 4010 | 4490 | .5000 | .5010 | 5970 |
| PHI | | | | | | | | | | | | | | | |
| 000 | | 4583 | | | 4070 | | 3510 | 4189 | 4761 | | 4136 | .3984 | .4093 | | .4108 |
| 25.000 | | | | | | | | 4787 | | 4738 | | | | | |
| 30.000 | | | | | | 4024 | | | | | | | | | |
| 180.000 | 1114 | | 1002 | .1008 | | | | | | | | | | | .0057 |

X/L .6000 6990 7000 8000 .9000 1.0000

| | | | | | | |
|---------|------|------|------|-------|------|------|
| PHI | | | | | | |
| 000 | | | 3672 | .3997 | 3566 | 3342 |
| 25.000 | 4132 | | | 4286 | | |
| 180.000 | | 0084 | | | | |

MACH (2) = 8.024 MAW/HT(1) = 850 RE/FT = 1.0600 P0 = 921.50 T0 = 2712.0 H0 = 17.700

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|------|--------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|
| X/L | 0000 | 0070 | 0190 | .0300 | 0420 | 0600 | .0620 | 0810 | 0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| 000 | 0000 | 1.7404 | .8970 | | .5595 | | 5067 | 3636 | | | 3399 | .1912 | | .2750 | |
| 30.000 | | | | | | | | | | .4874 | | | | | |
| 180.000 | | | | .0175 | | .0082 | | | 0140 | | | | .0160 | | .0241 |

X/L 1600 1610 .1700 .1810 2000 2010 .2500 3000 3500 3990 4010 .4490 .5000 .5010 5970

| | | | | | | | | | | | | | | | |
|-----|--|------|--|--|------|--|-------|------|-------|--|-------|------|-------|--|----|
| PHI | | | | | | | | | | | | | | | |
| 000 | | 2377 | | | 3315 | | .3251 | 3038 | .2626 | | .0000 | 3030 | .2184 | | .2 |

OH12/IH21 (CAL HST 173-100) 37 0 T FUSELAGE

(RUGB14) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = 0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = .000 BETA = .000

MACH (1) = 16 050 HAM/HT(1) = .850 RE/FT = .46340-01 PO = 577.10 TO = 3699 0 HO = 25.320

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

PHI

| | | | | | | | | | | | | | | | |
|---------|------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 000 | 8884 | 3996 | .1935 | | 0673 | | .0524 | .0458 | | | .0323 | .0078 | | .0000 | |
| 30.000 | | | | | | | | | | .0609 | | | | | |
| 180.000 | | | | .2251 | | .1681 | | | .1377 | | | | .0844 | | .0778 |

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

PHI

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|
| .000 | | .0189 | | | .0230 | | .0176 | .0160 | .0091 | | .0065 | .0072 | .0029 | | .0009 |
| 25.000 | | | | | | | | .0116 | | .0085 | | | | | |
| 30.000 | | | | | | .0221 | | | | | | | | | |
| 180.000 | .1730 | | .3438 | .4647 | | | | | | | | | | | .0067 |

X/L .6000 .6990 .7000 .8000 .9000 1 0000

PHI

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|
| .000 | | | .0011 | .0014 | .0025 | .0027 | | | | | | | | | |
| 25.000 | .0009 | | | .0009 | | | | | | | | | | | |
| 180.000 | | .0085 | | | | | | | | | | | | | |

MACH (1) = 16.050 HAM/HT(2) = .900 RE/FT = .46340-01 PO = 577.10 TO = 3699.0 HO = 25.320

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

PHI

| | | | | | | | | | | | | | | | |
|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 000 | 8311 | .3738 | .1811 | | .0630 | | .0490 | .0429 | | | .0302 | .0073 | | .0000 | |
| 30.000 | | | | | | | | | | .0569 | | | | | |
| 180.000 | | | | .2106 | | .1573 | | | .1288 | | | | .0789 | | .0728 |

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

PHI

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|
| .000 | | .0177 | | | .0215 | | .0165 | .0149 | .0085 | | .0061 | .0068 | .0027 | | .0008 |
| 25.000 | | | | | | | | .0108 | | .0080 | | | | | |
| 30.000 | | | | | | .0207 | | | | | | | | | |
| 180.000 | .1619 | | .3216 | .4347 | | | | | | | | | | | .0063 |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 T FUSELAGE

(RUGB14)

MACH (1) = 16.050 HAW/HT (2) = 900

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L 6000 .6990 7000 8000 .9000 1.0000

PHI

000 .0010 0013 0023 .0025
 25 000 0009 .0008
 180 000 0079

MACH (1) = 16.050 HAW/HT (3) = 1.000 RE/FT = .46340-01 P0 = 577 10 T0 = 3699.0 H0 = 25.320

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L 0000 0070 .0190 0300 .0420 0600 0620 0810 .0910 .1000 1030 1220 .1260 .1420 1500

PHI

000 7362 3311 .1604 0558 .0434 0380 .0267 0065 .0000
 30 000 .0504
 180 000 1866 .1393 1141 0699 .0645

X/L 1600 1610 .1700 .1810 .2000 .2010 2500 3000 .3500 3990 .4010 .4490 5000 5010 5970

PHI

000 0157 0190 0146 .0132 .0075 .0054 0060 .0024 .0007
 25 000 .0096 0070
 30 000 0183
 180 000 .1434 .2849 3851 0056

X/L .6000 6990 .7000 8000 9000 1.0000

PHI

000 .0009 0011 0020 0022
 25 000 .0008 0007
 180 000 .0070

OH12/IH21 (CAL HGT 173-100) 37 0 FUSELAGE

(RU0815) (18 JUN 78)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 25.000 BETA = .000

MACH (1) = 12.030 HAW/HT (1) = .850 RE/FT = .95540 PO = 4211.0 TO = 3477.0 HO = 23.460

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 .0190 .0300 .0420 .0500 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI
 .000 .7438 .9445 .4320 .2483 .1815 .1378 .1295 .1038 .0000
 30.000 .2005
 180.000 .0459 .0272 .0159 .0080 .0056

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI
 .000 .1067 .1069 .1140 .1096 .0883 .0696 .0840 .0929 .0752
 25.000 .0886 .0889
 30.000 .1293
 180.000 0122 .0565 .0732 .0056

X/L 6000 6990 .7000 .8000 .9000 1.0000

PHI
 .000 .0675 .0686 .0486 .0362
 25.000 0624 .0720
 180.000 0072

MACH (1) = 12.030 HAW/HT (2) = .900 RE/FT = .95540 PO = 4211.0 TO = 3477.0 HO = 23.460

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 .0190 .0300 .0420 .0500 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI
 .000 6952 .8828 .4037 .2320 .1697 .1288 .1173 .0970 .0000
 30.000 .1874
 180.000 .0429 .0254 .0149 .0075 .0052

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI
 .000 .0998 .1000 .1065 .1024 .0825 .0650 .0785 .0868 .0702
 25.000 .0828 .0831
 30.000 .1209
 180.000 .0114 .0528 .0684 .0052

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE (RUG815)

MACH (1) = 12.030 HAW/HT (2) = 900

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .6000 .6990 7000 8000 .9000 1 0000

PHI
 000 0631 0641 0454 .0338
 25 000 0583 0673
 180 000 0068

MACH (1) = 12 030 HAW/HT (3) = 1,000 RE/FT = .95540 P0 = 4211.0 T0 = 3477 0 H0 = 23 460

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L 0000 0070 .0190 0300 0420 .0600 .0620 0810 .0910 1000 .1030 1220 1260 .1420 1500

PHI
 000 .6148 7807 .3571 2052 1501 1139 .1038 0858 .0000
 30 000 .1657
 180 000 .0379 0225 .0131 0066 .0046

X/L 1600 .1610 1700 .1810 .2000 2010 .2500 .3000 3500 .3990 .4010 4490 .5000 5010 5970

PHI
 000 0882 .0884 0942 0906 .0730 .0575 .0694 0768 0621
 25 000 1069
 30 000
 180 000 0101 .0467 .0605 .0046

X/L 6000 6990 .7000 .8000 .9000 1 0000

PHI
 000 .0558 .0567 0402 0299
 25 000 0516 .0595
 180 000 .0060

MACH (2) = 15 720 HAW/HT (1) = 850 RE/FT = 23850 P0 = 2417.0 T0 = 3531.0 H0 = 23.940

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L 0000 .0070 .0190 0300 0420 0600 .0620 .0810 0910 .1000 1030 1220 .1260 1420 1500

PHI
 000 7820 7688 .4536 2534 .1642 1545 .1281 0983 .0000
 30 000 1991
 180 000 0524 .0269 .0172 .0104 0116

X/L .1600 1610 .1700 1810 2000 .2010 .2500 .3000 .3500 3990 .4010 4490 .5000 .5010 .5970

PHI
 000 1099 0906 .0929 .0956 .0785 0761 0795 .0764

| | | OH12/IH21 (CAL HST 173-100) 37 0 | | | | | | | | FUSELAGE (RUGB15) | | | | | |
|------------------------|---------|----------------------------------|-------|---------------|-------|-------------|-------|-------------|-------|-------------------|-------|-------|-------|-------|-------|
| MACH (2) = 15 720 | | HAW/HT(3) = 1 000 | | RE/FT = 23850 | | PO = 2417.0 | | T0 = 3531 0 | | H0 = 23.940 | | | | | |
| SECTION (1) FUSELAGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
| X/L | 0000 | 0070 | 0190 | .0300 | .0420 | .0600 | .0620 | .0810 | 0910 | 1000 | .1030 | .1220 | 1260 | .1420 | 1500 |
| | PHI | | | | | | | | | | | | | | |
| | .000 | .6468 | .6359 | .3752 | | 2096 | | .1358 | .1278 | | | .1060 | .0813 | | .0000 |
| | 30.000 | | | | | | | | | .1647 | | | | | |
| | 180 000 | | | | .0433 | | .0222 | | 0143 | | | | 0086 | | 0096 |
| X/L | .1600 | 1610 | 1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | 3990 | .4010 | .4490 | .5000 | 5010 | .5970 |
| | PHI | | | | | | | | | | | | | | |
| | .000 | | 0909 | | 0750 | | 0768 | 0791 | .0649 | | .0630 | 0657 | .0632 | | 0482 |
| | 25 000 | | | | | | | .0698 | | 0605 | | | | | |
| | 30 000 | | | | | | .1047 | | | | | | | | |
| | 180 000 | 0150 | | 0201 | 0220 | | | | | | | | | | .0028 |
| X/L | 6000 | 6990 | 7000 | 8000 | .9000 | 1 0000 | | | | | | | | | |
| | PHI | | | | | | | | | | | | | | |
| | .000 | | | 0554 | 0531 | 0393 | .0260 | | | | | | | | |
| | 25 000 | 0502 | | .0455 | | | | | | | | | | | |
| | 180 000 | | 0030 | | | | | | | | | | | | |

OH12/1H21 (CAL HST 173-100) 37 0 FUSELAGE

(RUGB16) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290 3000 IN YMRP = .0000 IN.
 BREF = 1290 3000 IN ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 30.000 BETA = .000

MACH (1) = 12 030 HAW/HT(1) = .850 RE/FT = .96300 PO = 4246.0 TO = 3477 0 HO = 23.460

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

X/L 0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 1220 1260 .1420 1500

PHI

.000 .6389 7468 .4154 .2482 .2012 .1614 .1387 .1107 .0000

30 000

.2079

180.000

.0256

0136

.0079

.0059

0076

X/L 1600 .1610 .1700 .1810 .2000 2010 .2500 .3000 .3500 .3990 .4010 4490 5000 .5010 .5970

PHI

.000 .1229 .1305 .1039 .0998 .0973 .0720 0906 0762 .0616

25 000

.0897

.0948

30 000

.1411

180 000

.0224

.0368

.0397

.0036

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI

.000 .0754 .0673 .0495 .0288

25 000

0692

.0841

180 000

.0061

MACH (1) = 12 030 HAW/HT(2) = .900 RE/FT = .96300 PO = 4246.0 TO = 3477 0 HO = 23.460

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI

.000 .5972 .6990 .3882 .2320 1880 .1508 .1297 .1035 .0000

30 000

.1943

180 000

.0239

.0127

.0073

.0055

0071

X/L .1600 1610 .1700 .1810 .2000 .2010 2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI

.000 .1149 .1220 .0971 .0933 .0910 .0673 .0846 .0712 .0575

25.000

0839

.0886

30.000

.1319

180 000

.0209

.0344

.0371

.0033

ORIGINAL PAGE IS OF POOR QUALITY

OH12/1H21 (CAL HST 173-100) 37 0 FUSELAGE

(R00818)

MACH (1) = 12.030 HAW/HT(2) = 900

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI

| | | | | | |
|---------|-------|-------|-------|-------|-------|
| .000 | | .0705 | .0629 | .0463 | .0269 |
| 25.000 | .0648 | | .0786 | | |
| 180.000 | | .0057 | | | |

MACH (1) = 12.030 HAW/HT(3) = 1.000 RE/FT = .96300 P0 = 4246.0 T0 = 3477.0 H0 = 23.460

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI

| | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|
| .000 | .5282 | .6173 | .3434 | | .2052 | | .1663 | .1334 | | | .1147 | .0915 | | .0000 |
| 30.000 | | | | | | | | | | .1718 | | | | |
| 180.000 | | | | .0212 | | .0112 | | | .0065 | | | .0049 | | .0063 |

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI

| | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .000 | | .1016 | | | .1079 | | .0859 | .0825 | .0805 | | .0595 | .0749 | .0629 | .0509 |
| 25.000 | | | | | | | | .0742 | | .0784 | | | | |
| 30.000 | | | | | | .1166 | | | | | | | | |
| 180.000 | .0185 | | .0304 | .0328 | | | | | | | | | | .0030 |

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI

| | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| .000 | | | .0623 | .0556 | .0409 | .0238 |
| 25.000 | .0572 | | | .0695 | | |
| 180.000 | | .0051 | | | | |

MACH (2) = 15.720 HAW/HT(1) = .850 RE/FT = .24490 P0 = 2491.0 T0 = 3535.0 H0 = 23.970

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI

| | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|
| .000 | .7851 | .8047 | .5250 | | .3221 | | .2446 | .1998 | | | .1627 | .1597 | | .0000 |
| 30.000 | | | | | | | | | | .2071 | | | | |
| 180.000 | | | | .0408 | | .0229 | | | .0139 | | | .0092 | | .0091 |

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI

| | | | | | | | | | | | | | | |
|------|--|-------|--|--|-------|--|-------|-------|-------|--|-------|-------|-------|--|
| .000 | | .1456 | | | .1334 | | .1055 | .1062 | .1027 | | .0835 | .0921 | .0902 | |
|------|--|-------|--|--|-------|--|-------|-------|-------|--|-------|-------|-------|--|

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE

(RUGB16)

MACH (2) = 15.720 HAW/HT(1) = .850

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

X/L .1600 .1610 .1700 .1810 .2000 2010 .2500 .3000 3500 .3990 .4010 .4490 5000 .5010 .5970

PHI

25.000

30.000

180.000

.0111

.0146

.0207

.1448

.1058

.1187

.0029

X/L .5000 .6990 .7000 .8000 .9000 1.0000

PHI

000

25.000

180.000

.0803

.0784

.0781

.0498

.0412

.0690

.0035

MACH (2) = 15.720 HAW/HT(2) = .900 RE/FT = .24490 P0 = 2491.0 T0 = 3535.0 H0 = 23.970

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

X/L 0000 .0070 0190 .0300 0420 0600 .0620 .0810 .0910 .1000 .1030 1220 .1260 .1420 .1500

PHI

000

30.000

180.000

.7340

.7523

.4908

.3012

.2287

.1868

.1936

.1521

.1493

.0000

.0379

.0214

.0130

.0086

.0085

X/L .1600 .1610 .1700 .1810 .2000 2010 2500 .3000 .3500 3990 .4010 4490 .5000 .5010 .5970

PHI

000

25.000

30.000

180.000

.1362

.1247

.0986

.0993

.0960

.0781

.0861

.0843

.0690

.0104

.0137

.0194

.1354

.1110

.0027

X/L .5000 .6990 .7000 .8000 .9000 1.0000

PHI

.000

25.000

180.000

.0750

.0733

.0730

.0465

.0385

.0645

.0033

OH12/1H21 (CAL HST 173-100) 37 0 FUSELAGE

(RUGB17) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XHRP = 0000 IN.
 LREF = 1290 3000 IN YHRP = .0000 IN.
 BREF = 1290 3000 IN ZHRP = .0000 IN
 SCALE = 1000

ALPHA = 35.000 BETA = .000

MACH (1) = 12.060 HAW/HT(1) = 850 RE/FT = .98280 PO = 4058.0 TO = 3362.0 HO = 22.590

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

X/L 0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI

.000 .7362 .7881 .5529 .3577 2506 .2239 1658 .1598 .0000
 30 000 .2198
 180.000 .0334 .0141 .0098 .0094 .0124

X/L .1600 .1610 .1700 .1810 2000 .2010 .2500 .3000 .3500 .3990 4010 .4490 .5000 .5010 .5970

PHI

.000 .1781 1766 1591 .1477 .1260 .1230 .1209 1217 .0803
 25.000 1412 .1421
 30 000 .2019
 180 000 0466 0685 .0000 .0037

X/L 6000 .6990 7000 .8000 .9000 1.0000

PHI

.000 .0977 .0975 .0702 .0547
 25 000 .1061 .0898
 180 000 .0049

MACH (1) = 12.060 HAW/HT(2) = .900 RE/FT = .98280 PO = 4058.0 TO = 3362.0 HO = 22.590

SECTION (1) FUSELAGE

DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI

.000 6878 .7363 .5165 .3342 .2341 .2092 .1549 .1493 .0000
 30 000 .2054
 180 000 .0312 .0132 .0092 .0088 .0116

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 3000 .3500 .3990 4010 .4490 .5000 .5010 .5970

PHI

.000 .1664 .1650 .1487 .1380 .1177 .1150 .1129 .1137 .0750
 25 000 .1319 .1328
 30.000 .1887
 180.000 .0435 .0640 .0000 .0034

ORIGINAL PAGE IS OF POOR QUALITY

OH12/1H21 (CAL HST 173-100) 37 0 FUSELAGE (RUGB17)

MACH (1) = 12.060 HAW/HT(2) = 900

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .6000 6990 7000 .8000 .9000 1.0000

PHI

.000 .0913 .0911 .0656 0511

25.000 0992 0839

180.000 .0046

MACH (1) = 12.060 HAW/HT(3) = 1.000 RE/FT = .98280 P0 = 4058.0 T0 = 3362.0 H0 = 22.590

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L 0000 0070 .0190 .0300 0420 .0600 .0620 0810 .0910 1000 1030 .1220 .1260 .1420 .1500

PHI

.000 .6079 6508 .4566 2954 .2069 1849 .1369 .1320 .0000

30.000 1815

180.000 0276 .0116 .0081 .0077 .0103

X/L .1600 .1610 1700 1810 .2000 2010 .2500 .3000 .3500 .3990 4010 .4490 .5000 .5010 .5970

PHI

.000 .1470 .1459 1314 1220 .1040 .1016 .0998 .1005 .0663

25.000 1166 .1174

30.000 1667

180.000 .0385 .0565 0000 0030

X/L .6000 6990 .7000 .8000 9000 1.0000

PHI

.000 .0807 .0805 .0580 0452

25.000 0876 0742

180.000 .0041

MACH (2) = 15.740 HAW/HT(1) = .850 RE/FT = .25440 P0 = 2551.0 T0 = 3510.0 H0 = 23.780

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 1030 1220 .1260 1420 .1500

PHI

.000 .6811 .7504 5145 .3350 .2220 .2089 .1865 .1846 0000

30.000 2480

180.000 .0315 .0142 .0109 .0062 .0073

X/L 1600 .1610 1700 .1810 2000 2010 .2500 .3000 .3500 3990 4010 4490 .5000 5010 .5970

PHI

.000 .1558 1357 .1081 .1293 1116 1063 .1111 .0940

OH12/1H21 (CAL HST 173-100) 37 0 FUSELAGE (RUGB17)

MACH (2) = 15.740 HAW/HT(1) = 950

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 4490 .5000 .5010 .5970

PHI

25.000

30.000

180.000

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI

.000

25.000

180.000

MACH (2) = 15.740 HAW/HT(2) = .900 RE/FT = .25440 PO = 2551.0 TO = 3510.0 HO = 23.780

SECTION (1) FUSELAGE DEPENDENT VARIABLE H/HREF

X/L .0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 1030 .1220 .1260 .1420 .1500

PHI

.000

30.000

180.000

X/L .1600 .1810 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI

.000

25.000

30.000

180.000

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI

.000

25.000

180.000

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 T-NP HING L.S.

(RUGH04) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN YMRP = .0000 IN.
 BREF = 1290.3000 IN ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = .000 BETA = .000

MACH (1) = 18.360 HAW/HT(1) = .850 RE/FY = .12410-01 PO = 360.50 T0 = 4449.0 HD = 31.530

SECTION (1) HING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 4510

2Y/B

247 .0041 .0022
 .248 .0104
 396 .0000
 .399 .0044
 .412 .0124
 498 .0084
 .499 .0309
 599 .0156 .0120
 738 .0795
 750 .0244
 849 .0000
 .948 .0963
 1.000 .0298

X/C .4970 .5160 .5360 .5680 .5950 6120 .7110 .7160 .8840 .9060 .9120

2Y/B

248 .0020
 .249 .0013
 399 .0023
 400 .0046
 500 .0084 .0057
 .599 .0070
 601 .0115
 .749 .0154
 848 .0281
 950 .0356

OH12/IH21 (CAL HST 173-100) 37 0 T-NP WING L.S

(RUGH04)

MACH (1) = 18.360 HAW/HT (2) = 900 RE/FT = .12410-01 PO = 360 50 T0 = 4449 0 H0 = 31 530

SECTION (1) WING L S

DEPENDENT VARIABLE H/HREF

| X/C | .0000 | 0390 | 0420 | 0670 | 1010 | 1460 | 1610 | 1900 | 2020 | 2110 | 3040 | .3130 | 3160 | 4400 | 4510 |
|-------|-------|------|------|-------|-------|-------|------|------|------|-------|-------|-------|-------|-------|------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0039 | | | | |
| .248 | | | | | | | 0097 | | | | | | | | 0021 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .0041 | | | |
| .412 | | | | .0116 | | | | | | | | | | | |
| .498 | | | | | | | | 0079 | | | | | | | |
| .499 | | 0290 | | | | | | | | | | | | | |
| .599 | | | | | | | | | 0147 | | | | | .0113 | |
| .738 | | | 0745 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0229 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .848 | | | | | | .0903 | | | | | | | | | |
| 1 000 | 0280 | | | | | | | | | | | | | | |

X/C 4970 .5160 .5360 5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

| | | | | | | | | | | | | | | | |
|------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| .248 | | | | | | | | | .0018 | | | | | | |
| .249 | | | | | 0012 | | | | | | | | | | |
| .399 | | | | | | | | | | .0021 | | | | | |
| .400 | | | | .0044 | | | | | | | | | | | |
| .500 | 0079 | | | | | | .0053 | | | | | | | | |
| .599 | | | | | | | | | | | .0066 | | | | |
| .601 | | | | | | .0108 | | | | | | | | | |
| .749 | | | | | | | | .0144 | | | | | | | |
| .848 | | .0264 | | | | | | | | | | | | | |
| .950 | | | .0333 | | | | | | | | | | | | |

MACH (1) = 18.360 HAW/HT (3) = 1.000 RE/FT = .12410-01 PO = 360 50 T0 = 4449.0 H0 = 31.530

SECTION (1) WING L.S

DEPENDENT VARIABLE H/HREF

| X/C | 0000 | .0380 | 0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | 4510 |
|------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | | | | .0034 | |
| .248 | | | | | | | .0087 | | | | | | | | 0018 |
| .396 | | | | | | | | | .0000 | | | | | | |
| .399 | | | | | | | | | | | | .0036 | | | |
| .412 | | | | .0103 | | | | | | | | | | | |
| .498 | | | | | | | | .0070 | | | | | | | |
| .499 | | .0258 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .0130 | | | | | .0100 | |
| .738 | | | 0662 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0203 | | |

OH12/IH21 (CAL HST 173-100) 37 0 T KING L.S.

(RUGH05) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = .0000 IN.
 LREF = 1290 3000 IN YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = .000 BETA = .000

MACH (1) = 6.999 HAW/HT (1) = .850 RE/FT = .12050 PO = 357.80 TO = 5538 0 HO = 41 770

SECTION (1) KING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 2110 .3040 .3130 .3160 4400 4510

2Y/B

247 .0047
 248 .0103 0041
 396 .0230
 399 .0167
 .412 .0664
 .498 .0000
 .499 .1223
 599 .0370 .0261
 738 .1686
 750 .0423
 849 .0000
 948 .1150
 1 000 .0643

X/C .4970 .5160 .5360 5680 .5950 .6120 .7110 .7160 8840 .9060 .9120

2Y/B

248 .0058
 .249 .0071
 399 .0061
 .400 .0021
 .500 .0206 .0105
 .599 .0087
 .601 .0000
 .749 .0222
 .848 .0407
 .950 .0466

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.S. (RUGH05)

MACH (1) = 6.899 HAW/HT(2) = .900 RE/FT = .12050 PO = 357.80 TO = 5538.0 HO = 41.770

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247
 .248 .0097 .0044 .0039
 .396 .0216
 .399 .0157
 .412 .0624
 .498 .0000
 .499 .1149
 .599 .0346 .0245
 .738 .1584
 .750 .0397
 .849 .0000
 .948 .1080
 1 000 .0604

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 7160 .8840 .9060 .9120

2Y/B

.248 .0054
 .249 .0067
 .399 .0057
 400 .0020
 500 .0193 .0099
 .599 .0082
 .601 .0000
 .749 .0208
 .848 .0382
 .950 .0437

MACH (1) = 6.999 HAW/HT(3) = 1.000 RE/FT = .12050 PO = 357.80 TO = 5538.0 HO = 41.770

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247 .0039 .0035
 .248 .0086
 .396 .0192
 .399 .0140
 .412 .0556
 .498 .0000
 .499 .1025
 .599 .0310 .0218
 .738 .1412
 .750 .0354

ORIGINAL PAGE IS
 OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 T WING L S.

(RUGH05)

MACH (1) = 6.999 HAW/HT(3) = 1.000

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | 0000 | .0380 | .0420 | .0670 | 1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| 849 | | | | | 0000 | | | | | | | | | | |
| 948 | | | | | | .0963 | | | | | | | | | |
| 1 000 | 0538 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0048 | | | | | | |
| 249 | | | | | 0059 | | | | | | | | | | |
| 399 | | | | | | | | | | 0051 | | | | | |
| 400 | | | | .0018 | | | | | | | | | | | |
| 500 | .0173 | | | | | | 0088 | | | | | | | | |
| 599 | | | | | | | | | | | .0073 | | | | |
| .601 | | | | | | .0000 | | | | | | | | | |
| .749 | | | | | | | | .0186 | | | | | | | |
| 848 | | 0341 | | | | | | | | | | | | | |
| 950 | | | 0390 | | | | | | | | | | | | |

MACH (2) = 7.616 HAW/HT(1) = .850 RE/FT = 1.2040 PO = 519.30 TO = 2007 0 HO = 12.750

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | 1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | .0098 | | | | |
| .248 | | | | | | | .0074 | | | | | | | | 0095 |
| 396 | | | | | | | | | | .0184 | | | | | |
| .399 | | | | | | | | | | | | .0068 | | | |
| .412 | | | | .0960 | | | | | | | | | | | |
| .498 | | | | | | | | 0000 | | | | | | | |
| 499 | | .1590 | | | | | | | | | | | | | |
| 599 | | | | | | | | | .0465 | | | | | .0264 | |
| 738 | | | .2119 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | .0440 | | |
| 849 | | | | | 0000 | | | | | | | | | | |
| 948 | | | | | | .1317 | | | | | | | | | |
| 1 000 | 0777 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0149 | | | | | | |
| 249 | | | | | .0130 | | | | | | | | | | |
| .399 | | | | | | | | | | .0269 | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.S. (RUGH05)

MACH (2) = 7.616 HAW/HT (3) = 1 000 RE/FT = 1.2040 P0 = 519.30 T0 = 2007.0 H0 = 12 750

SECTION (1) WING L S. DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | 4510 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | .0079 | | | | |
| .248 | | | | | | | 0059 | | | | | | | | 0076 |
| .396 | | | | | | | | | | 0131 | | | | | |
| 399 | | | | | | | | | | | | .0054 | | | |
| .412 | | | | .0768 | | | | | | | | | | | |
| .498 | | | | | | | | .0000 | | | | | | | |
| 499 | | .1272 | | | | | | | | | | | | | |
| 599 | | | | | | | | | 0372 | | | | | | 0212 |
| .738 | | | .1695 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | 0352 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| 948 | | | | | | .1054 | | | | | | | | | |
| 1.000 | 0622 | | | | | | | | | | | | | | |

| X/C | 4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | 9060 | .9120 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | |
| .248 | | | | | | | | | .0119 | | |
| 249 | | | | | .0104 | | | | | | |
| 399 | | | | | | | | | | .0215 | |
| 400 | | | | .0159 | | | | | | | |
| .500 | 0142 | | | | | | .0253 | | | | |
| .599 | | | | | | | | | | .0060 | |
| 601 | | | | | .0000 | | | | | | |
| 749 | | | | | | | | .0197 | | | |
| 848 | | .0420 | | | | | | | | | |
| 950 | | | .0456 | | | | | | | | |

MACH (3) = 18.330 HAW/HT (1) = .850 RE/FT = .12100-01 P0 = 346.80 T0 = 4436 0 H0 = 31 410

SECTION (1) WING L S DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | 4510 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | .0026 | | | | |
| 248 | | | | | | | 0069 | | | | | | | | 0012 |
| 396 | | | | | | | | | .0000 | | | | | | |
| .399 | | | | | | | | | | | | .0061 | | | |
| 412 | | | | .0139 | | | | | | | | | | | |
| 498 | | | | | | | | .0096 | | | | | | | |
| 499 | | .0248 | | | | | | | | | | | | | |
| 599 | | | | | | | | | .0171 | | | | | | 0108 |
| 738 | | | .0688 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | .0213 | | | |

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.S.

(RUGW05)

MACH (3) = 18.330 HAW/HT (1) = .850

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | .0000 | | | | | | | | | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .0859 | | | | | | | | | |
| 1.000 | .0304 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | .0011 | | | | | | |
| .248 | | | | | | | | | .0011 | | | | | | |
| .249 | | | | | .0012 | | | | | | | | | | |
| .399 | | | | | | | | | | .0009 | | | | | |
| .400 | | | | .0035 | | | | | | | | | | | |
| .500 | .0091 | | | | | | .0054 | | | | | | | | |
| .599 | | | | | | | | | | | .0047 | | | | |
| .601 | | | | | | .0109 | | | | | | | | | |
| .749 | | | | | | | | .0118 | | | | | | | |
| .848 | | .0249 | | | | | | | | | | | | | |
| .950 | | | .0413 | | | | | | | | | | | | |

MACH (3) = 18.330 HAW/HT (2) = .900 RE/FT = .12100-01 PD = 346.80 TO = 4436.0 HO = 31.410

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | .0024 | | | | |
| .247 | | | | | | | | | | | .0024 | | | | |
| .248 | | | | | | .0065 | | | | | | | | | .0011 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .0057 | | | |
| .412 | | | | .0131 | | | | | | | | | | | |
| .499 | | | | | | | | .0090 | | | | | | | |
| .499 | | .0233 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .0160 | | | | | .0101 | |
| .738 | | | .0645 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0200 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .0805 | | | | | | | | | |
| 1.000 | .0285 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | .0010 | | | | | | |
| .248 | | | | | | | | | .0010 | | | | | | |
| .249 | | | | | .0011 | | | | | | | | | | |
| .399 | | | | | | | | | | .0008 | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.S.

(RUGH05)

MACH (3) = 18.330 HAW/HT(2) = .900

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .4970 .5160 .5360 .5560 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.400 .0033
 500 .0085 .0050
 .599 .0044
 .601 .0102
 .749 .0111
 .848 .0233
 .950 .0388

MACH (3) = 18.330 HAW/HT(3) = 1.000 RE/FT = .12100-01 P0 = 346.60 T0 = 4436.0 H0 = 31.410

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0360 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247 .0021
 .248 .0058 .0010
 .396 .0000
 .399 .0051
 .412 .0116
 .498 .0080
 .499 .0207
 .599 .0142 .0090
 .738 .0573
 750 .0178
 849 .0000
 948 .0716
 1000 .0253

X/C .4970 .5160 .5360 .5660 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248 .0009
 .249 .0010
 .399 .0007
 400 .0029
 500 .0075 .0045
 .599 .0039
 .601 .0090
 749 .0098
 848 .0207
 .950 .0344

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.S. (RUGH05)

MACH (4) = 19.200 HAW/HT(1) = .850 RE/FT = 43200-01 PO = 1602.0 TO = 4694.0 HO = 33.500

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0033 | | | | |
| .248 | | | | | | .0094 | | | | | | | | | .0015 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .0090 | | | |
| .412 | | | | .0231 | | | | | | | | | | | |
| .498 | | | | | | | | .0200 | | | | | | | |
| .499 | .0421 | | | | | | | | | | | | | | |
| .599 | | | | | | | | | .0277 | | | | | | .0195 |
| .738 | | | .0000 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0387 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .0765 | | | | | | | | | |
| 1.000 | .0457 | | | | | | | | | | | | | | |

X/C .4970 .5160 .5360 .5680 5950 .6120 .7110 .7160 .8840 .9060 9120

2Y/B

| | | | | | | | | | | | | | | | |
|-----|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| 248 | | | | | | | | | .0015 | | | | | | |
| 249 | | | | | .0011 | | | | | | | | | | |
| 399 | | | | | | | | | | .0039 | | | | | |
| 400 | | | | .0063 | | | | | | | | | | | |
| 500 | .0135 | | | | | | .0090 | | | | | | | | |
| 599 | | | | | | | | | | | .0059 | | | | |
| 601 | | | | | | .0129 | | | | | | | | | |
| 749 | | | | | | | | .0177 | | | | | | | |
| 848 | .0367 | | | | | | | | | | | | | | |
| 950 | | | .0518 | | | | | | | | | | | | |

MACH (4) = 19.200 HAW/HT(2) = .900 RE/FT = 43200-01 PO = 1602.0 TO = 4694.0 HO = 33.500

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0031 | | | | |
| .248 | | | | | | .0088 | | | | | | | | | .0014 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .0084 | | | |
| .412 | | | | .0217 | | | | | | | | | | | |
| .498 | | | | | | | | .0188 | | | | | | | |
| .499 | .0395 | | | | | | | | | | | | | | |
| .599 | | | | | | | | | .0259 | | | | | | .0182 |
| .738 | | | .0000 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0363 | | |

ORIGINAL PAGE IS
 OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.S

(RUGH05)

MACH (4) = 19.200 HAW/HT(2) = 900

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.849

.948

1.000

.0429

.0000

.0718

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248

.249

.399

.400

.500

.599

.601

.749

.848

.950

.0127

.0059

.0010

.0121

.0084

.0166

.0014

.0036

.0056

MACH (4) = 19.200 HAW/HT(3) = 1.000 RE/FT = .43200-01 P0 = 1602 0 T0 = 4694.0 H0 = 33 500

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247

.248

.396

.399

.412

.498

.499

.599

.738

.750

.849

.948

1.000

.0381

.0193

.0000

.0639

.0078

.0167

.0027

.0000

.0075

.0231

.0162

.0323

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248

.249

.399

.0009

.0012

.0032

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 87

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.S.

(RUGH05)

MACH (4) = 19 200 HAM/HT(3) = 1.000

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| X/C | .4970 | .5160 | .5360 | .5660 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | |
| .400 | | | | .0052 | | | | | | | |
| .500 | 0113 | | | | | | 0075 | | | | |
| .599 | | | | | | | | | | | .0049 |
| .601 | | | | | | .0108 | | | | | |
| .749 | | | | | | | | 0147 | | | |
| .848 | | .0307 | | | | | | | | | |
| .950 | | | .0432 | | | | | | | | |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 T WING L S

(RUGH06) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT XMRP = .0000 IN.
 LREF = 1290.3000 IN YMRP = .0000 IN
 BREF = 1290 3000 IN ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 5.000 BETA = 000

MACH (1) = 19 220 HAW/HT(1) = 850 RE/FT = 43430-01 PO = 1614.0 * TO = 4695.0 HO = 33 500

SECTION (1) WING L S

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-----|------|------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | 0000 | 0380 | .0420 | .0570 | 1010 | 1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-----|------|------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

| | | | | | | | | | | | | | | | |
|-------|------|------|-------|-------|-------|-------|--|-------|-------|-------|-------|-------|-------|--|-------|
| 247 | | | | | | | | | | | .0043 | | | | |
| 248 | | | | | | .0113 | | | | | | | | | .0012 |
| 396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .0091 | | | |
| .412 | | | | .0287 | | | | | | | | | | | |
| .498 | | | | | | | | .0243 | | | | | | | |
| .499 | | 0000 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .0302 | | | | | | 0204 |
| .738 | | | .0000 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | .0394 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| 948 | | | | | | 1081 | | | | | | | | | |
| 1 000 | 0611 | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-----|-------|------|-------|-------|-------|-------|------|------|-------|-------|-------|
| X/C | .4970 | 5160 | .5360 | .5680 | .5950 | .6120 | 7110 | 7160 | .8840 | .9060 | .9120 |
|-----|-------|------|-------|-------|-------|-------|------|------|-------|-------|-------|

2Y/B

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|
| .248 | | | | | | | | | .0015 | | |
| 249 | | | | | .0013 | | | | | | |
| 399 | | | | | | | | | .0024 | | |
| 400 | | | | .0072 | | | | | | | |
| 500 | .0168 | | | | | | .0087 | | | | .0063 |
| .599 | | | | | | | | | | | |
| .601 | | | | | | .0149 | | | | | |
| 749 | | | | | | | | .0206 | | | |
| .848 | | .0370 | | | | | | | | | |
| .950 | | | .0648 | | | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 T HING L.S.

(RUGH06)

MACH (1) = 19.220 HAW/HT(2) = .900 RE/FT = .43430-01 P0 = 1614 0 T0 = 4695.0 H0 = 33.500

SECTION (1) HING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247 .0041
 .248 .0106 .0011
 .396 .0000
 .399 .0085
 .412 .0269
 .498 .0229
 .499 .0000
 .599 .0283 .0192
 .738 .0000
 .750 .0369
 .849 .0000
 .948 .1014
 1.000 .0573

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9080 .9120

2Y/B

.248 .0014
 .249 .0012
 .399 .0022
 .400 .0067
 .500 .0158 .0081
 .599 .0059
 .601 .0140
 .749 .0193
 .848 .0347
 .950 .0608

MACH (1) = 19.220 HAW/HT(3) = 1.000 RE/FT = .43430-01 P0 = 1614.0 T0 = 4695.0 H0 = 33.500

SECTION (1) HING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247 .0036
 .248 .0095 .0010
 .396 .0000
 .399 .0076
 .412 .0239
 .498 .0203
 .499 .0000
 .599 .0252 .0171
 .738 .0000
 .750 .0329

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGW07) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = .000 BETA = .000

MACH (1) = 6.997 HAW/HT (1) = .850 RE/FT = .13020 PO = 384.80 TO = 5526.0 HD = 41.700

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247 .0130 .0105
 .248 .0221 .0105
 .396 .0184
 .399 .0213
 .412 .0998
 .498 .0000
 499 .1755
 .599 .0000 .0000
 .738 .1580
 .750 .0530
 849 .1250
 948 .0994
 1.000 .0718

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8640 .9060 .9120

2Y/B

.248 .0056
 .249 .0101
 399 .0073
 400 .0218
 .500 .0000 .0000
 .599 .0089
 .601 .0217
 .749 .0193
 848 .0319
 950 .0355

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (RUGH07)
 MACH (1) = 6.997 HAW/HT(2) = .900 RE/FT = .13020 P0 = 384.80 T0 = 5526.0 H0 = 41.700

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| X/C | 0000 | 0380 | 0420 | 0670 | .1010 | 1460 | .1610 | 1900 | .2020 | .2110 | 3040 | .3130 | .3160 | .4400 | 4510 |
|-------|------|------|-------|------|-------|-------|-------|------|-------|-------|------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | 0122 | | | | |
| 248 | | | | | | | .0208 | | | | | | | | 0099 |
| .396 | | | | | | | | | | .0173 | | | | | |
| .399 | | | | | | | | | | | 0200 | | | | |
| .412 | | | | 0937 | | | | | | | | | | | |
| .498 | | | | | | | | 0000 | | | | | | | |
| .499 | | 1649 | | | | | | | | | | | | | |
| .599 | | | | | | | | | 0000 | | | | | | .0000 |
| .738 | | | .1484 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | .0498 | | | |
| 849 | | | | | .1174 | | | | | | | | | | |
| 948 | | | | | | .0934 | | | | | | | | | |
| 1 000 | 0675 | | | | | | | | | | | | | | |

X/C 4970 5160 5360 .5680 5950 .6120 .7110 7160 .8840 .9060 9120

2Y/B

| | | | | | | | | | | | | | | | |
|------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|
| 248 | | | | | | | | | .0062 | | | | | | |
| 249 | | | | | .0095 | | | | | | | | | | |
| 399 | | | | | | | | | | .0068 | | | | | |
| 400 | | | | .0205 | | | | | | | | | | | |
| 500 | 0000 | | | | | | .0000 | | | | | | | | |
| 599 | | | | | | | | | | .0083 | | | | | |
| 601 | | | | | | .0204 | | | | | | | | | |
| 749 | | | | | | | | .0181 | | | | | | | |
| .848 | | .0300 | | | | | | | | | | | | | |
| .950 | | | 0333 | | | | | | | | | | | | |

MACH (1) = 6.997 HAW/HT(3) = 1.000 RE/FT = .13020 P0 = 384.80 T0 = 5526.0 H0 = 41.700

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| X/C | 0000 | 0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | 3040 | .3130 | .3160 | 4400 | 4510 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | 0109 | | | | |
| 248 | | | | | | | 0185 | | | | | | | | 0088 |
| .396 | | | | | | | | | | .0154 | | | | | |
| .399 | | | | | | | | | | | .0178 | | | | |
| .412 | | | | .0836 | | | | | | | | | | | |
| .498 | | | | | | | | .0000 | | | | | | | |
| .499 | | .1470 | | | | | | | | | | | | | |
| .599 | | | | | | | | | 0000 | | | | | | .0000 |
| .738 | | | .1324 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | .0444 | | | |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 93

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH07)

MACH (1) = 6.997 HAW/HT(3) = 1 000

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .649 | | | | | .1047 | | | | | | | | | | |
| .948 | | | | | | .0833 | | | | | | | | | |
| 1 000 | .0602 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0055 | | | | | | |
| .249 | | | | | | .0084 | | | | | | | | | |
| .399 | | | | | | | | | | .0061 | | | | | |
| .400 | | | | .0182 | | | | | | | | | | | |
| .500 | .0000 | | | | | | .0000 | | | | | | | | |
| .599 | | | | | | | | | | | .0074 | | | | |
| .601 | | | | | | | .0182 | | | | | | | | |
| .749 | | | | | | | | .0162 | | | | | | | |
| .848 | | .0268 | | | | | | | | | | | | | |
| .950 | | | .0297 | | | | | | | | | | | | |

MACH (2) = 7.614 HAW/HT(1) = .850 RE/FT = 1.2320 P0 = 534.30 T0 = 2015.0 H0 = 12.800

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0194 | | | | |
| .248 | | | | | | | .0271 | | | | | | | | .0131 |
| .396 | | | | | | | | | | .0243 | | | | | |
| .399 | | | | | | | | | | | | .0258 | | | |
| .412 | | | | .1279 | | | | | | | | | | | |
| .498 | | | | | | | | .0483 | | | | | | | |
| .499 | | .2050 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .0529 | | | | | | .0351 |
| .738 | | | .1398 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0623 | | |
| .849 | | | | | .1453 | | | | | | | | | | |
| .948 | | | | | | .1136 | | | | | | | | | |
| 1 000 | .0970 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0094 | | | | | | |
| .249 | | | | | .0133 | | | | | | | | | | |
| .399 | | | | | | | | | | .0082 | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (RUGH07)

MACH (2) = 7.814 HAH/HT (3) = 1.000 RE/FT = 1.2320 PO = 534.30 TO = 2015.0 HO = 12.600

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0156 | | | | |
| .248 | | | | | | | .0217 | | | | | | | | .0105 |
| .396 | | | | | | | | | .0195 | | | | | | |
| .399 | | | | | | | | | | | | .0207 | | | |
| .412 | | | | .1024 | | | | | | | | | | | |
| .498 | | | | | | | | .0387 | | | | | | | |
| .499 | | .1642 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .0424 | | | | | | .0281 |
| .738 | | | .1120 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0498 | | |
| .849 | | | | | .1163 | | | | | | | | | | |
| .948 | | | | | | .0910 | | | | | | | | | |
| 1.000 | .0777 | | | | | | | | | | | | | | |

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| 248 | | | | | | | | | .0075 | | | | | | |
| .249 | | | | | .0106 | | | | | | | | | | |
| .399 | | | | | | | | | | .0066 | | | | | |
| .400 | | | | .0147 | | | | | | | | | | | |
| .500 | .0271 | | | | | | .0179 | | | | | | | | |
| .599 | | | | | | | | | | | .0101 | | | | |
| .601 | | | | | | .0164 | | | | | | | | | |
| .749 | | | | | | | | .0186 | | | | | | | |
| .848 | | .0338 | | | | | | | | | | | | | |
| .950 | | | .0377 | | | | | | | | | | | | |

MACH (3) = 16.060 HAH/HT (1) = .850 RE/FT = .44180-01 PO = 560.00 TO = 3731.0 HO = 25.530

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0135 | | | | |
| .248 | | | | | | | .0128 | | | | | | | | .0106 |
| .396 | | | | | | | | | .0000 | | | | | | |
| .399 | | | | | | | | | | | | .0213 | | | |
| .412 | | | | .0528 | | | | | | | | | | | |
| .498 | | | | | | | | .0428 | | | | | | | |
| .499 | | .2055 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .0486 | | | | | | .0311 |
| .738 | | | .1782 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0691 | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L S

(RUGH07)

MACH (3) = 16 060 HAW/HT(1) = .850

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C 0000 .0380 0420 .0670 1010 .1460 1610 1900 .2020 .2110 3040 3130 3160 .4400 .4510

2Y/B

849

0000

948

.0805

1 000

0597

X/C 4970 .5160 5360 .5680 5950 6120 .7110 7160 .8840 .9060 .9120

2Y/B

248

0077

249

0104

399

.0071

400

.0168

500

0258

0215

.599

.0135

601

0302

749

.0462

848

.0371

.950

.0309

MACH (3) = 16 060 HAW/HT(2) = .900 RE/FT = .44180-01 P0 = 560.00 TO = 3731 0 HO = 25.530

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 1900 .2020 .2110 3040 .3130 .3160 .4400 .4510

2Y/B

247

.0126

248

.0120

.396

.0099

399

.0000

412

.0199

498

.0494

499

.0400

.599

.1922

.0455

.0291

738

.1667

750

.0647

849

.0000

948

0753

1 000

.0558

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

248

.0072

249

.0097

399

.0067

OH12/1H21 (CAL HST 173-100) 37 0 WING L.S.

(RUG407)

MACH (3) = 16 060 HAW/HT (2) = .900

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | 5160 | 5360 | .5680 | .5950 | .6120 | .7110 | 7160 | .8840 | .9060 | .9120 |
| 2Y/B | | | | | | | | | | | |
| 400 | | | | .0157 | | | | | | | |
| 500 | .0242 | | | | | | .0201 | | | | |
| .599 | | | | | | | | | | .0126 | |
| .601 | | | | | | .0282 | | | | | |
| .749 | | | | | | | | .0432 | | | |
| .848 | | .0347 | | | | | | | | | |
| .950 | | | .0289 | | | | | | | | |

MACH (3) = 16.060 HAW/HT (3) = 1.000 RE/FT = .44180-01 P0 = 560.00 T0 = 3731 0 H0 = 25.530

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | 0420 | .0670 | .1010 | .1460 | .1610 | .1900 | 2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0112 | | | | |
| .248 | | | | | | | .0106 | | | | | | | | .0088 |
| 396 | | | | | | | | | | .0000 | | | | | |
| 399 | | | | | | | | | | | | .0177 | | | |
| .412 | | | | .0437 | | | | | | | | | | | |
| 498 | | | | | | | | .0355 | | | | | | | |
| 499 | | 1702 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .0403 | | | | | | .0258 |
| .738 | | | .1477 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0573 | | |
| 849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .0667 | | | | | | | | | |
| 1.000 | .0494 | | | | | | | | | | | | | | |

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
| 2Y/B | | | | | | | | | | | |
| 248 | | | | | | | | .0064 | | | |
| .249 | | | | | .0086 | | | | | | |
| .399 | | | | | | | | | .0059 | | |
| .400 | | | | .0139 | | | | | | | |
| .500 | .0214 | | | | | .0178 | | | | | |
| .599 | | | | | | | | | .0112 | | |
| .601 | | | | | .0250 | | | | | | |
| .749 | | | | | | | .0383 | | | | |
| .848 | | .0307 | | | | | | | | | |
| .950 | | | .0256 | | | | | | | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0

WING L.S

(RUGH07)

MACH (4) = 18 310 HAW/HT(1) = .850 RE/FT = .12290-01 PO = 348 20 TO = 4417 0 HO = 31.290

SECTION (1) WING L S

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 2110 .3040 3130 .3160 .4400 .4510

2Y/B

247

248

.396

.399

.412

498

.499

.599

738

.750

849

948

1 000

0301

.0371

.0420

.0670

.1010

.1460

.1610

.1900

.2020

2110

.3040

3130

.3160

.4400

.4510

.0100

.0164

0000

0159

0083

.0286

.0217

.0735

.0405

1391

.0509

0000

.0737

X/C .4970 .5160 .5360 5680 .5950 .6120 7110 .7160 .8840 9060 .9120

2Y/B

248

.249

399

.400

500

599

601

749

.848

950

0190

.0077

.0152

.0158

.0080

.0355

.0407

.0354

.0538

.0068

.0041

MACH (4) = 18.310 HAW/HT(2) = .900 RE/FT = .12290-01 PO = 348 20 TO = 4417.0 HO = 31.290

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C 0000 .0380 .0420 .0670 .1010 1460 .1610 .1900 .2020 .2110 3040 .3130 .3160 .4400 .4510

2Y/B

.247

248

.396

399

.412

498

499

599

738

750

0094

.0154

.0000

0149

.0078

.0268

0203

.0689

.0380

1304

.0477

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH07)

MACH (4) = 18.310 HAW/HT(2) = .900

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | .849 | | | | .0000 | | | | | | | | | | |
| | .948 | | | | | .0691 | | | | | | | | | |
| | 1.000 | .0282 | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | .0064 | | | | | | |
| | .248 | | | | | | | | | | | | | | |
| | .249 | | | | .0072 | | | | | | | | | | |
| | .399 | | | | | | | | | .0038 | | | | | |
| | .400 | | | .0142 | | | | | | | | | | | |
| | .500 | .0179 | | | | .0148 | | | | | | | | | |
| | .599 | | | | | | | | | | .0075 | | | | |
| | .601 | | | | | .0333 | | | | | | | | | |
| | .749 | | | | | | | .0381 | | | | | | | |
| | .848 | .0332 | | | | | | | | | | | | | |
| | .950 | | .0504 | | | | | | | | | | | | |

MACH (4) = 18.310 HAW/HT(3) = 1.000 RE/FT = .12290-01 P0 = 348.20 TO = 4417.0 HO = 31.290

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | .247 | | | | | | | | | | .0084 | | | | .0069 |
| | .248 | | | | | .0136 | | | | | | | | | |
| | .396 | | | | | | | | .0000 | | | | | | |
| | .399 | | | | | | | | | | .0132 | | | | |
| | .412 | | | .0238 | | | | | | | | | | | |
| | .498 | | | | | | | .0181 | | | | | | | |
| | .499 | .0308 | | | | | | | | | | | | | |
| | .599 | | | | | | | | .0612 | | | | | .0338 | |
| | .738 | | .1159 | | | | | | | | | | | | |
| | .750 | | | | | | | | | | | | .0424 | | |
| | .849 | | | | .0000 | | | | | | | | | | |
| | .948 | | | | | .0614 | | | | | | | | | |
| | 1.000 | .0251 | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | .0057 | | | | | | |
| | .248 | | | | | | | | | | | | | | |
| | .249 | | | | .0064 | | | | | | | | | | |
| | .399 | | | | | | | | | .0034 | | | | | |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S (RUGH07)
 MACH (5) = 19.190 HAW/HT(2) = .900 RE/FT = .44400-01 PO = 1603.0 TO = 4644.0 HO = 33.120

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247 .0079
 .248 .0091 .0068
 396 .0000
 .399 .0151
 .412 .0286
 498 .0280
 .499 .1219 .0414 .0288
 599 .0414 .0288
 738 .1191 .0347
 .750 .0345
 .849 .0000
 .948 .0839
 1.000 .0345

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 8840 .9060 .9120

2Y/B

.248 .0065
 .249 .0082
 399 .0051
 .400 .0107
 500 .0177 .0108
 .599 .0097
 .601 .0222
 749 .0178
 848 .0283
 950 .0387

MACH (5) = 19.190 HAW/HT(3) = 1.000 RE/FT = .44400-01 PO = 1603.0 TO = 4644.0 HO = 33.120

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247 .0070
 .248 .0081 .0061
 396 .0000
 .399 .0134
 .412 .0254
 .498 .0248
 .499 .1084 .0368 .0256
 .599 .0368 .0256
 .738 .1059
 .750 .0309

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH08) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 5.000 BETA = .000

MACH (1) = 19 180 HAW/HT (1) = 850 RE/FT = .45790-01 P0 = 1649.0 T0 = 4641.0 H0 = 33.120

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 1010 .1460 .1610 .1900 .2020 2110 .3040 .3130 .3160 .4400 .4510

2Y/B

247 .0057 .0056
 248 .0073
 396 .0000
 399 0068
 412 .0152
 498 .0162
 .499 .0754
 .599 .0302 .0199
 .738 1046 .0301
 750
 849 .0000
 .948 .0718
 1 000 0452

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 8840 .9060 .9120

2Y/B

.248 .0048
 .249 .0062
 .399 .0034
 .400 .0090
 .500 .0107 .0075 .0037
 599
 .601 .0217
 .749 .0158
 848 .0254
 .950 0319

OH12/IH21 (CAL HST 173-100) 37 0 WING L S (RUGH08)

MACH (1) = 19.180 HAW/HT(2) = .900 RE/FT = .45790-01 PO = 1649 0 TO = 4641.0 HO = 33.120

SECTION (1) WING L S DEPENDENT VARIABLE H/HREF

X/C .0000 0380 0420 0670 .1010 .1460 .1610 1900 .2020 2110 3040 .3130 .3160 .4400 .4510

2Y/B

247

248

396

399

412

498

499

599

738

750

849

948

1 000

0424

X/C .4970 .5160 .5360 .5680 5950 6120 .7110 .7160 .8840 .9060 .9120

2Y/B

248

249

399

.400

500

.599

601

749

848

.950

MACH (1) = 19.180 HAW/HT(3) = 1 000 RE/FT = .45790-01 PO = 1649.0 TO = 4641.0 HO = 33.120

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247

248

396

399

412

498

499

.599

738

.750

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH09) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = 0000 IN
 BREF = 1290.3000 IN ZMRP = .0000 IN
 SCALE = 1000

ALPHA = 10.000 BETA = 000

MACH (1) = 18 360 HAW/HT(1) = 850 RE/FT = .12480-01 PO = 347 10 TO = 4373 0 H0 = 30.890

SECTION (1) WING L S.

DEPENDENT VARIABLE H/HREF

X/C 0000 0380 0420 .0670 1010 .1460 1610 1900 2020 .2110 .3040 3130 .3160 .4400 .4510

2Y/B

247 .0229
 .248 0237 0211
 396 .0000
 .399 .0345
 412 .0621
 498 0720
 499 2345
 599 .0786 .0666
 738 .1652
 750 .0538
 849 0000
 .948 0920
 1.000 .0272

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8640 .9060 9120

2Y/B

248 0136
 249 .0195
 .399 .0127
 400 .0306
 500 .0478 .0320
 599 .0241
 .601 .0528
 749 .0343
 848 .0528
 950 .0609

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGW09)

MACH (1) = 18.360 HAW/HT(2) = .900 RE/FT = .12480-01 P0 = 347.10 T0 = 4373.0 H0 = 30.890

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | 0215 | | | | |
| .248 | | | | | | | .0222 | | | | | | | | .0198 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .0323 | | | |
| .412 | | | | .0582 | | | | | | | | | | | |
| .498 | | | | | | | | .0674 | | | | | | | |
| .499 | | .2198 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .0737 | | | | | | .0625 |
| .738 | | | .1549 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0504 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .0862 | | | | | | | | | |
| 1.000 | .0255 | | | | | | | | | | | | | | |

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|-------|--|--|
| .248 | | | | | | | | | .0128 | | | | | | |
| .249 | | | | | .0183 | | | | | | | | | | |
| .399 | | | | | | | | | | .0119 | | | | | |
| .400 | | | | .0287 | | | | | | | | | | | |
| .500 | .0448 | | | | | | .0300 | | | | | | .0226 | | |
| .599 | | | | | | | | | | | | | | | |
| .601 | | | | | | .0495 | | | | | | | | | |
| .749 | | | | | | | | .0321 | | | | | | | |
| .848 | | .0495 | | | | | | | | | | | | | |
| .950 | | | .0571 | | | | | | | | | | | | |

MACH (1) = 18.360 HAW/HT(3) = 1.000 RE/FT = .12480-01 P0 = 347.10 T0 = 4373.0 H0 = 30.890

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0191 | | | | |
| .248 | | | | | | | .0198 | | | | | | | | .0176 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .0287 | | | |
| .412 | | | | .0517 | | | | | | | | | | | |
| .498 | | | | | | | | .0599 | | | | | | | |
| .499 | | .1953 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .0655 | | | | | .0555 | |
| .738 | | | .1376 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0448 | | |

| | | OH12/IH21 (CAL HST 173-100) 37 0 | | | | | | | WING L.S. | | (RUGH10) | | | | |
|-------------------------|-------|----------------------------------|-------|---------|--------|-------|--------|-------|-----------|-------|----------|-------|-------|-------|-------|
| MACH (1) = | 6.973 | HAW/HT (2) = | 900 | RE/FT = | .12370 | PO = | 373.20 | TO = | 5587.0 | HO = | 42.320 | | | | |
| SECTION (1) WING L.S. | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | .0696 | | | | |
| 248 | | | | | | | .0830 | | | | | | | | .0595 |
| 396 | | | | | | | | | | .0831 | | | | | |
| 399 | | | | | | | | | | | .0758 | | | | |
| 412 | | | | .2144 | | | | | | | | | | | |
| 498 | | | | | | | | .1607 | | | | | | | |
| 499 | | .4302 | | | | | | | | | | | | | |
| 599 | | | | | | | | | .1307 | | | | | | .1154 |
| 738 | | | .3986 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | .0980 | | |
| 849 | | | | | .2627 | | | | | | | | | | |
| 948 | | | | | | .2028 | | | | | | | | | |
| 1 000 | .0267 | | | | | | | | | | | | | | |
| X/C | 4970 | .5160 | .5360 | .5680 | .5950 | 6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| 248 | | | | | | | | | .0412 | | | | | | |
| 249 | | | | | .0580 | | | | | | | | | | |
| 399 | | | | | | | | | | .0367 | | | | | |
| .400 | | | | .0670 | | | | | | | | | | | |
| 500 | .1106 | | | | | | .0934 | | | | | | | | |
| .599 | | | | | | | | | | | .0441 | | | | |
| 601 | | | | | .0711 | | | | | | | | | | |
| .749 | | | | | | | | .0679 | | | | | | | |
| 848 | | .0816 | | | | | | | | | | | | | |
| 950 | | | .1246 | | | | | | | | | | | | |
| MACH (1) = | 6.973 | HAW/HT (3) = | 1.000 | RE/FT = | .12370 | PO = | 373.20 | TO = | 5587.0 | HO = | 42.320 | | | | |
| SECTION (1) WING L.S. | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0621 | | | | |
| .248 | | | | | | | .0740 | | | | | | | | .0531 |
| .396 | | | | | | | | | | .0741 | | | | | |
| .399 | | | | | | | | | | | .0676 | | | | |
| .412 | | | | .1912 | | | | | | | | | | | |
| .498 | | | | | | | | .1433 | | | | | | | |
| .499 | | .3837 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1165 | | | | | | .1029 |
| .738 | | | .3555 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0874 | | |

OH12/1H21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH10)

MACH (1) = 6.973 HAW/HT(3) = 1.000

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .849 | | | | | .2343 | | | | | | | | | | |
| .948 | | | | | | .1809 | | | | | | | | | |
| 1.000 | .0238 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5580 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0368 | | | | | | |
| .249 | | | | | .0517 | | | | | | | | | | |
| .399 | | | | | | | | | | .0327 | | | | | |
| .400 | | | | .0597 | | | | | | | | | | | |
| .500 | .0986 | | | | | | .0835 | | | | | | | | |
| .599 | | | | | | | | | | | .0393 | | | | |
| .601 | | | | | | .0635 | | | | | | | | | |
| .749 | | | | | | | | .0606 | | | | | | | |
| .848 | | .0728 | | | | | | | | | | | | | |
| .950 | | | .1111 | | | | | | | | | | | | |

MACH (2) = 7.921 HAW/HT(1) = .850 RE/FT = 7.3310 P0 = 2181.0 T0 = 1560.0 H0 = 9.9040

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .3070 | | | | |
| .248 | | | | | | | .3337 | | | | | | | | .3398 |
| .396 | | | | | | | | | | | .5114 | | | | |
| .399 | | | | | | | | | | | | .4310 | | | |
| .412 | | | | .6195 | | | | | | | | | | | |
| .498 | | | | | | | | .0000 | | | | | | | |
| .499 | 1.2085 | | | | | | | | | | | | | | |
| .599 | | | | | | | | | .0000 | | | | | .5764 | |
| .738 | | | .5637 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .4792 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .4138 | | | | | | | | | |
| 1.000 | .0370 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .2876 | | | | | | |
| .249 | | | | | .3945 | | | | | | | | | | |
| .399 | | | | | | | | | | .2064 | | | | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (RUGH10)
 MACH (2) = 7.921 HAM/HT(3) = 1.000 RE/FT = 7 3310 PD = 2181.0 TO = 1560 0 HO = 9.9040

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0570 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .2392 | | | | |
| .248 | | | | | | .2600 | | | | | | | | | .2648 |
| .396 | | | | | | | | | | .3984 | | | | | |
| .399 | | | | | | | | | | | | .3358 | | | |
| .412 | | | | .4827 | | | | | | | | | | | |
| .498 | | | | | | | | .0000 | | | | | | | |
| .499 | | .9416 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .0000 | | | | | | .4491 |
| .738 | | | .4392 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .3734 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .3224 | | | | | | | | | |
| 1.000 | .0288 | | | | | | | | | | | | | | |

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

| | | | | | | | | | | | | | | | |
|------|-------|-------|--|-------|-------|-------|--|-------|-------|-------|--|--|--|--|--|
| .248 | | | | | | | | | .2241 | | | | | | |
| .249 | | | | | .3074 | | | | | | | | | | |
| .399 | | | | | | | | | | .1609 | | | | | |
| .400 | | | | .3751 | | | | | | | | | | | |
| .500 | .5078 | | | | | .3457 | | | | | | | | | |
| .599 | | | | | | | | | | .1778 | | | | | |
| .601 | | | | | .0000 | | | | | | | | | | |
| .749 | | | | | | | | .2701 | | | | | | | |
| .848 | .3729 | | | | | | | | | | | | | | |
| .950 | | .3704 | | | | | | | | | | | | | |

MACH (3) = 8.009 HAM/HT(1) = .850 RE/FT = .99780 PD = 900.90 TO = 2772.0 HO = 18.130

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | 0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0919 | | | | |
| .248 | | | | | | .1269 | | | | | | | | | .0740 |
| .396 | | | | | | | | | .0968 | | | | | | |
| .399 | | | | | | | | | | | | .1102 | | | |
| .412 | | | | .2908 | | | | | | | | | | | |
| .498 | | | | | | | | .2294 | | | | | | | |
| .499 | | .5721 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1538 | | | | | | .1348 |
| .738 | | | .3931 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .1091 | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH10)

MACH (3) = 8 009 HAW/HT(1) = 850

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| X/C | 0000 | 0380 | .0420 | .0670 | .1010 | 1460 | 1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-----|------|------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
|-----|------|------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

.849

948

1 000

.0274

.3430

2255

| X/C | .4970 | .5160 | 5360 | 5680 | 5950 | 6120 | 7110 | .7160 | 8840 | .9060 | .9120 |
|-----|-------|-------|------|------|------|------|------|-------|------|-------|-------|
|-----|-------|-------|------|------|------|------|------|-------|------|-------|-------|

2Y/B

248

249

399

400

.500

.599

601

749

848

950

.1497

.1624

.1693

.0661

.0889

.1409

.1053

.0742

0511

.0417

0534

MACH (3) = 8.009 HAW/HT(2) = .900 RE/FT = .99780 PO = 900.90 TO = 2772.0 HO = 18.130

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| X/C | .0000 | 0380 | .0420 | .0670 | .1010 | 1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | 4510 |
|-----|-------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|-----|-------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|

2Y/B

247

248

396

399

.412

.498

499

599

738

.750

.849

948

1 000

.0255

.5326

3660

.2707

.3193

.2100

.1182

.2136

.1432

.0901

.1026

.1432

.1016

.1255

.1255

| X/C | .4970 | .5160 | 5360 | .5680 | .5950 | .6120 | .7110 | .7160 | 8840 | 9060 | .9120 |
|-----|-------|-------|------|-------|-------|-------|-------|-------|------|------|-------|
|-----|-------|-------|------|-------|-------|-------|-------|-------|------|------|-------|

2Y/B

248

249

399

.0616

0475

.0388

DATE 18 OCT 75

TABULATED SOURCE DATA , OH12 + 1H21 (CAL HST 173-100)

PAGE 115

OH12/1H21 (CAL HST 173-100) 37 0 WING L.S.

(RUOH10)

MACH (3) = 8.009 HAW/HT(2) = .900

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

400 .0828
500 1394 .1311
599 .0497
601 .0981
.749 .0691
.848 1512
.950 .1578

MACH (3) = 8 009 HAW/HT(3) = 1.000 RE/FT = .99780 PO = 900 90 T0 = 2772.0 H0 = 18.130

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C 0000 0380 0420 .0670 .1010 .1460 1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247 .0752
.248 .1038 .0605
.396 .0792
.399 .0901
412 .2379
.498 .1877
.499 .4680
599 .1258 .1103
.738 .3216
.750 .0893
.849 .2806
.948 .1845
1.000 .0224

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248 .0418
.249 .0541
.399 .0341
400 .0727
.500 .1225 .1152
.599 .0437
601 .0862
.749 .0607
.848 .1328
.950 .1385

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (ROUGH10)
 MACH (4) = 10.450 HAW/HT (1) = 850 RE/FT = .91170 PO = 2714 0 TO = 3466 0 HO = 23 370

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .1284 | | | | |
| .248 | | | | | | .1469 | | | | | | | | | .0990 |
| .396 | | | | | | | | | .0000 | | | | | | |
| .399 | | | | | | | | | | | | .1330 | | | |
| .412 | | | | .2932 | | | | | | | | | | | |
| .498 | | | | | | | | .2196 | | | | | | | |
| .499 | | .7248 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1661 | | | | | | 1577 |
| .738 | | | .4253 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .1772 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2609 | | | | | | | | | |
| 1 000 | .0330 | | | | | | | | | | | | | | |

X/C .4970 .5160 5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| .248 | | | | | | | | | .0635 | | | | | | |
| .249 | | | | | .0956 | | | | | | | | | | |
| .399 | | | | | | | | | | .0451 | | | | | |
| .400 | | | | .1023 | | | | | | | | | | | |
| .500 | .1902 | | | | | | .1595 | | | | | | | | |
| .599 | | | | | | | | | | | .0591 | | | | |
| .601 | | | | | | .1343 | | | | | | | | | |
| .749 | | | | | | | | .1019 | | | | | | | |
| .848 | | .1186 | | | | | | | | | | | | | |
| .950 | | | .0000 | | | | | | | | | | | | |

MACH (4) = 10.450 HAW/HT (2) = 900 RE/FT = .91170 PO = 2714.0 TO = 3466 0 HO = 23.370

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .1200 | | | | |
| .248 | | | | | | .1372 | | | | | | | | | .0925 |
| .396 | | | | | | | | | .0000 | | | | | | |
| .399 | | | | | | | | | | | | .1243 | | | |
| .412 | | | | .2740 | | | | | | | | | | | |
| .498 | | | | | | | | .2052 | | | | | | | |
| .499 | | .6773 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1553 | | | | | | .1473 |
| .738 | | | .3974 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .1656 | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH10)

MACH (4) = 10.450 HAW/HT(2) = .900

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2438 | | | | | | | | | |
| 1.000 | .0308 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0593 | | | | | | |
| .249 | | | | | .0894 | | | | | | | | | | |
| .399 | | | | | | | | | | .0422 | | | | | |
| .400 | | | | .0956 | | | | | | | | | | | |
| .500 | .1777 | | | | | | .1491 | | | | | | | | |
| .599 | | | | | | | | | | | .0552 | | | | |
| .601 | | | | | | .1255 | | | | | | | | | |
| .749 | | | | | | | | .0952 | | | | | | | |
| .848 | | .1108 | | | | | | | | | | | | | |
| .950 | | | .0000 | | | | | | | | | | | | |

2Y/B

2Y/B

MACH (4) = 10.450 HAW/HT(3) = 1.000 RE/FT = .91170 P0 = 2714.0 TO = 3466.0 H0 = 23.370

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .1061 | | | | |
| .248 | | | | | | | .1213 | | | | | | | | .0818 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .1099 | | | |
| .412 | | | | .2422 | | | | | | | | | | | |
| .498 | | | | | | | | .1814 | | | | | | | |
| .499 | | .5988 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1373 | | | | | .1303 | |
| .738 | | | .3514 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .1464 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2156 | | | | | | | | | |
| 1.000 | .0273 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0525 | | | | | | |
| .249 | | | | | .0790 | | | | | | | | | | |
| .399 | | | | | | | | | | .0373 | | | | | |

2Y/B

2Y/B

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH10)

MACH (4) = 10.450 HAW/HT(3) = 1.000

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | |
|------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|------|
| X/C | 4970 | 5160 | 5360 | .5680 | .5950 | .6120 | 7110 | .7160 | .8840 | .9060 | 9120 |
| 2Y/B | | | | | | | | | | | |
| .400 | | | | .0845 | | | | | | | |
| 500 | .1571 | | | | | | .1318 | | | | |
| 599 | | | | | | | | | | .0488 | |
| 601 | | | | | | .1110 | | | | | |
| 749 | | | | | | | | .0842 | | | |
| 848 | | 0980 | | | | | | | | | |
| 950 | | | 0000 | | | | | | | | |

MACH (5) = 12.220 HAW/HT(1) = .850 RE/FT = 26170 P0 = 1591.0 T0 = 3838.0 H0 = 26430

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | 0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0975 | | | | |
| 248 | | | | | | | .1184 | | | | | | | | .0831 |
| .396 | | | | | | | | | | .0000 | | | | | |
| 399 | | | | | | | | | | | | .0825 | | | |
| 412 | | | | .2740 | | | | | | | | | | | |
| 498 | | | | | | | | .2124 | | | | | | | |
| 499 | | 5849 | | | | | | | | | | | | | |
| 599 | | | | | | | | | .1435 | | | | | 1400 | |
| 738 | | | 4434 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | .0846 | | | |
| 849 | | | | | 0000 | | | | | | | | | | |
| .948 | | | | | | .2378 | | | | | | | | | |
| 1000 | .0339 | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | 6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
| 2Y/B | | | | | | | | | | | |
| 248 | | | | | | | | | .0500 | | |
| 249 | | | | | | 0769 | | | | | |
| .399 | | | | | | | | | | .0398 | |
| .400 | | | | .0833 | | | | | | | |
| 500 | 1599 | | | | | | .1177 | | | | .0609 |
| 599 | | | | | | | | | | | |
| 601 | | | | | | 1249 | | | | | |
| .749 | | | | | | | | .0805 | | | |
| .848 | | .1096 | | | | | | | | | |
| 950 | | | 1356 | | | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (RUGH10)
 MACH (5) = 12.220 HAW/HT (2) = .900 RE/FT = .26170 P0 = 1591 0 TO = 3838.0 H0 = 26 430

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0913 | | | | |
| .248 | | | | | | | .1108 | | | | | | | | .0777 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | .0772 | | | | |
| .412 | | | | .2565 | | | | | | | | | | | |
| .498 | | | | | | | | .1988 | | | | | | | |
| .499 | | .5475 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1343 | | | | | | .1310 |
| .738 | | | .4150 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0792 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2226 | | | | | | | | | |
| 1.000 | .0317 | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0468 | | | | | | |
| .249 | | | | | .0720 | | | | | | | | | | |
| .399 | | | | | | | | | | .0373 | | | | | |
| .400 | | | | .0779 | | | | | | | | | | | |
| .500 | .1497 | | | | | | .1101 | | | | | | | | |
| .599 | | | | | | | | | | .0570 | | | | | |
| .601 | | | | | | .1169 | | | | | | | | | |
| .749 | | | | | | | | .0753 | | | | | | | |
| .848 | | .1026 | | | | | | | | | | | | | |
| .950 | | | .1269 | | | | | | | | | | | | |

MACH (5) = 12.220 HAW/HT (3) = 1.000 RE/FT = .26170 P0 = 1591.0 TO = 3838.0 H0 = 26.430

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0809 | | | | |
| .248 | | | | | | | .0993 | | | | | | | | .0689 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | .0684 | | | | |
| .412 | | | | .2274 | | | | | | | | | | | |
| .498 | | | | | | | | .1762 | | | | | | | |
| .499 | | .4853 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1191 | | | | | | .1162 |
| .738 | | | .3679 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0702 | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(ROUGH10)

MACH (5) = 12 220 HAW/HT(3) = 1 000

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C 0000 0380 .0420 .0670 .1010 1460 1610 .1900 .2020 2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.849

.948

1.000

0281

0000

1973

X/C .4970 .5160 .5360 .5680 5950 .6120 .7110 .7160 .8840 9060 .9120

2Y/B

.248

.249

.399

.400

.500

.599

.601

.749

.848

.950

1327

0638

.0691

.0976

.1037

0668

.0909

1125

0415

.0330

.0505

MACH (6) = 16 020 HAW/HT(1) = .850 RE/FT = 44700-01 P0 = 565.60 T0 = 3735 0 H0 = 25.590

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C 0000 0380 .0420 .0670 1010 1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247

.248

.396

.399

.412

.498

.499

.599

.738

.750

.849

.948

1 000

.5801

.3802

.1892

.2044

.1473

.1354

.0000

.1950

.1088

.0335

X/C .4970 .5160 .5360 .5680 .5950 6120 7110 .7160 .8840 .9060 .9120

2Y/B

.248

.249

.399

.0792

0452

.0376

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH10)

MACH (6) = 16.020 HAW/HT(1) = .850

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
| 2Y/B | | | | | | | | | | | |
| .400 | | | | .0892 | | | | | | | |
| .500 | .1336 | | | | | .1007 | | | | | |
| .599 | | | | | | | | | | .0485 | |
| .601 | | | | | | 1092 | | | | | |
| .749 | | | | | | | | .0707 | | | |
| .848 | .1036 | | | | | | | | | | |
| .950 | | | .1230 | | | | | | | | |

MACH (6) = 16.020 HAW/HT(2) = .900 RE/FT = .44700-01 PO = 565.60 TO = 3735.0 HO = 25.590

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0755 | | | | |
| .248 | | | | | | | .0820 | | | | | | | | .0674 |
| .386 | | | | | | | | | .0000 | | | | | | |
| .399 | | | | | | | | | | | .0948 | | | | |
| .412 | | | | .1770 | | | | | | | | | | | |
| .498 | | | | | | | .1912 | | | | | | | | |
| .499 | .5427 | | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1378 | | | | | .1267 | |
| .738 | | | .3557 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | 1018 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .1825 | | | | | | | | | |
| 1 000 | .0313 | | | | | | | | | | | | | | |

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

| | | | | | | | | | | | | | | | |
|------|-------|--|-------|-------|-------|-------|-------|-------|-------|--|-------|--|--|--|--|
| .248 | | | | | | | | | .0423 | | | | | | |
| .249 | | | | | .0741 | | | | | | | | | | |
| .399 | | | | | | | | | .0352 | | | | | | |
| .400 | | | | .0834 | | | | | | | | | | | |
| .500 | .1250 | | | | | | .0942 | | | | | | | | |
| .599 | | | | | | | | | | | .0454 | | | | |
| .601 | | | | | | .1021 | | | | | | | | | |
| .749 | | | | | | | | .0681 | | | | | | | |
| .848 | .0969 | | | | | | | | | | | | | | |
| .950 | | | .1151 | | | | | | | | | | | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (ROUGH10)
 MACH (6) = 18.020 HAW/HT(3) = 1.000 RE/FT = .44700-01 PO = 565.60 TO = 3735 0 H0 = 25.590

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | 2020 | 2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | 0669 | | | | |
| .248 | | | | | | | .0815 | | | | | | | | .0597 |
| .396 | | | | | | | | | | .0000 | | | .0840 | | |
| .399 | | | | | .1568 | | | | | | | | | | |
| .412 | | | | | | | | | | | | | | | |
| .498 | | | | | | | | .1694 | | | | | | | |
| .499 | | 4808 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1220 | | | | | | .1122 |
| .738 | | | .3151 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0902 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | 1616 | | | | | | | | | |
| 1 000 | .0277 | | | | | | | | | | | | | | |

X/C 4970 .5160 5360 .5680 .5950 6120 .7110 7160 8840 .9060 9120

2Y/B

| | | | | | | | | | | | | | | | |
|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| .248 | | | | | | | | | .0375 | | | | | | |
| .249 | | | | | .0656 | | | | | | | | | | |
| .399 | | | | | | | | | | .0312 | | | | | |
| .400 | | | | .0739 | | | | | | | | | | | |
| .500 | .1108 | | | | | | .0834 | | | | | | | | |
| .599 | | | | | | | | | | | .0402 | | | | |
| .601 | | | | | | .0905 | | | | | | | | | |
| .749 | | | | | | | | .0586 | | | | | | | |
| .848 | | 0859 | | | | | | | | | | | | | |
| .950 | | | .1019 | | | | | | | | | | | | |

MACH (7) = 19 180 HAW/HT(1) = .850 RE/FT = .44510-01 PO = 1618 0 TO = 4658.0 H0 = 33.250

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | 2020 | .2110 | .3040 | .3130 | .3160 | 4400 | 4510 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | 0000 | | | | |
| .248 | | | | | | | 0000 | | | | | | | | 0630 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .0000 | | | |
| .412 | | | | | .1780 | | | | | | | | | | |
| .498 | | | | | | | | .0925 | | | | | | | |
| .499 | | 0000 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .0000 | | | | | .0000 | |
| .738 | | | .3083 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .1088 | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH10)

MACH (7) = 19.180 HAW/HT (1) = 850

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.849

.948

1.000

.0255

.0000

.0000

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248

.249

.399

.400

.500

.599

.601

.749

.848

.950

.0000

.0622

.0000

.0743

.0000

.0641

.0418

.0347

.0456

.0000

.1082

MACH (7) = 19.180 HAW/HT (2) = .900 RE/FT = .44510-01 P0 = 1618.0 TO = 4658 0 HO = 33.250

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247

.248

.396

.399

.412

.498

.499

.599

.738

.750

.849

.948

1 000

.0239

.1670

.0000

.0868

.0000

.0000

.0000

.0000

.0000

.0000

.0591

.1020

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248

.249

.399

.0000

.0392

.0326

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH10)

MACH (7) = 19 180 HAW/HT(2) = .900

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
| 2Y/B | | | | | | | | | | | |
| 400 | | | | 0583 | | | | | | | |
| 500 | 0000 | | | | | | .0697 | | | | |
| 599 | | | | | | | | | | | 0427 |
| 601 | | | | | | .0000 | | | | | |
| 749 | | | | | | | | .0601 | | | |
| 848 | | .0000 | | | | | | | | | |
| 950 | | | 1015 | | | | | | | | |

MACH (7) = 19.180 HAW/HT(3) = 1 000 RE/FT = .44510-01 P0 = 1518.0 T0 = 4658.0 H0 = 33 250

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| X/C | 0000 | 0380 | 0420 | .0670 | .1010 | .1460 | 1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | 4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | 0000 | | | | |
| 248 | | | | | | | .0000 | | | | | | | | .0526 |
| 396 | | | | | | | | | | 0000 | | | | | |
| 399 | | | | | | | | | | | | .0000 | | | |
| 412 | | | | 1485 | | | | | | | | | | | |
| 498 | | | | | | | | .0772 | | | | | | | |
| 499 | | 0000 | | | | | | | | | | | | | |
| 599 | | | | | | | | | .0000 | | | | | | .0000 |
| 738 | | | .2572 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | .0907 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .0000 | | | | | | | | | |
| 1.000 | .0212 | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
| 2Y/B | | | | | | | | | | | |
| .248 | | | | | | | | | .0349 | | |
| .249 | | | | | .0000 | | | | | | |
| .399 | | | | | | | | | | .0290 | |
| .400 | | | | .0519 | | | | | | | |
| .500 | 0000 | | | | | | .0620 | | | | |
| .599 | | | | | | | | | | .0380 | |
| .601 | | | | | .0000 | | | | | | |
| .749 | | | | | | | | .0534 | | | |
| .848 | | .0000 | | | | | | | | | |
| .950 | | | .0902 | | | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH11) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN YMRP = .0000 IN
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 30.000 BETA = .000

MACH (1) = 7.011 HAW/HT(1) = .850 RE/FT = 13080 PO = 370.80 TO = 5426.0 HO = 40.760

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247
 .248
 .396
 .399
 .412
 498
 .499 4660
 599
 .738 .3409
 750
 849 .2682
 948 .2194
 1.000 .0269

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248
 .249
 .399
 .400 .0795
 500 .1195
 .599
 .601
 .749
 .848 .1149
 .950 .1513

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (ROUGH!!)
 MACH (1) = 7.011 HAW/HT (2) = .900 RE/FT = .13080 PO = 370.80 TO = 5426.0 HO = 40 760

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | .0833 | | | | |
| 248 | | | | | | | .0956 | | | | | | | | .0717 |
| 396 | | | | | | | | | | .1067 | | | | | |
| 399 | | | | | | | | | | | | .0792 | | | |
| .412 | | | | .2086 | | | | | | | | | | | |
| .498 | | | | | | | | .1787 | | | | | | | |
| 499 | | .4376 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1738 | | | | | | .1269 |
| 738 | | | .3202 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | .1116 | | |
| 849 | | | | | .2706 | | | | | | | | | | |
| 948 | | | | | | .2060 | | | | | | | | | |
| 1 000 | .0252 | | | | | | | | | | | | | | |

X/C 4970 .5160 5360 .5680 .5950 .6120 .7110 7160 .8840 .9060 .9120

2Y/B

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|--|-------|-------|-------|--|--|--|--|--|
| .248 | | | | | | | | | .0409 | | | | | | |
| .249 | | | | | .0671 | | | | | | | | | | |
| 399 | | | | | | | | | | .0359 | | | | | |
| 400 | | | | .0747 | | | | | | | | | | | |
| 500 | .1122 | | | | | .0980 | | | | | | | | | |
| 599 | | | | | | | | | | .0521 | | | | | |
| 601 | | | | | | .0965 | | | | | | | | | |
| 749 | | | | | | | | .0781 | | | | | | | |
| .848 | | .1079 | | | | | | | | | | | | | |
| 950 | | | .1421 | | | | | | | | | | | | |

MACH (1) = 7.011 HAW/HT (3) = 1.000 RE/FT = .13080 PO = 370.80 TO = 5426 0 HO = 40.760

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | .0743 | | | | |
| 248 | | | | | | | .0852 | | | | | | | | .0639 |
| .396 | | | | | | | | | | .0951 | | | | | |
| .399 | | | | | | | | | | | | .0706 | | | |
| .412 | | | | .1860 | | | | | | | | | | | |
| .498 | | | | | | | | .1593 | | | | | | | |
| .499 | | .3902 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1550 | | | | | | .1131 |
| .738 | | | .2855 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | .0995 | | |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 127

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH11)

MACH (1) = 7.011 HAW/HT(3) = 1.000

| SECTION (1) WING L.S. | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | | |
|-------------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | | .0000 | .0380 | .0420 | .0670 | .1010 | .1480 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | | |
| | .849 | | | | | .2413 | | | | | | | | | | |
| | .948 | | | | | | .1837 | | | | | | | | | |
| | 1.000 | .0225 | | | | | | | | | | | | | | |
| X/C | | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | | |
| | .248 | | | | | | | | | .0365 | | | | | | |
| | .249 | | | | | .0598 | | | | | | | | | | |
| | .399 | | | | | | | | | | .0320 | | | | | |
| | .400 | | | | .0666 | | | | | | | | | | | |
| | .500 | .1000 | | | | | | .0873 | | | | | | | | |
| | .599 | | | | | | | | | | | .0465 | | | | |
| | .601 | | | | | | .0860 | | | | | | | | | |
| | .749 | | | | | | | | .0697 | | | | | | | |
| | .848 | | .0962 | | | | | | | | | | | | | |
| | .950 | | | .1267 | | | | | | | | | | | | |

MACH (2) = 7.890 HAW/HT(1) = .850 RE/FT = .75740 P0 = 782.80 T0 = 3018.0 H0 = 19.990

| SECTION (1) WING L.S. | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | | |
|-------------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | | |
| | .247 | | | | | | | | | | | .1331 | | | | |
| | .248 | | | | | | | .1449 | | | | | | | | .1011 |
| | .396 | | | | | | | | | | .2101 | | | | | |
| | .399 | | | | | | | | | | | | .1318 | | | |
| | .412 | | | | .2569 | | | | | | | | | | | |
| | .498 | | | | | | | | .2617 | | | | | | | |
| | .499 | | .8964 | | | | | | | | | | | | | |
| | .599 | | | | | | | | | .2678 | | | | | .1564 | |
| | .738 | | | .5453 | | | | | | | | | | | | |
| | .750 | | | | | | | | | | | | .1333 | | | |
| | .849 | | | | | .3542 | | | | | | | | | | |
| | .948 | | | | | | .2299 | | | | | | | | | |
| | 1.000 | .0174 | | | | | | | | | | | | | | |
| X/C | | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | | |
| | .248 | | | | | | | | | .0691 | | | | | | |
| | .249 | | | | .0979 | | | | | | | | | | | |
| | .399 | | | | | | | | | | .0691 | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L S. (RUGH111)

MACH (2) = 7.890 HAW/HT(3) = 1.000 RE/FT = .75740 PO = 782.80 TO = 3018.0 HO = 19.990

SECTION (1) WING L S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | 1094 | | | | |
| .248 | | | | | | | .1191 | | | | | | | | .0831 |
| .396 | | | | | | | | | .1727 | | | | | | |
| .399 | | | | | | | | | | | | .1083 | | | |
| .412 | | | | .2111 | | | | | | | | | | | |
| .498 | | | | | | | | .2151 | | | | | | | |
| .499 | | .7367 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .2119 | | | | | | .1286 |
| .738 | | | .4481 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .1096 | | |
| .849 | | | | .2911 | | | | | | | | | | | |
| .948 | | | | | | .1889 | | | | | | | | | |
| 1.000 | .0143 | | | | | | | | | | | | | | |

X/C .4970 .5160 .5360 .5680 .5950 6120 .7110 7160 .8840 .9060 .9120

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|--|-------|-------|-------|------|-------|-------|--|--|--|--|
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | 0568 | | | | | | |
| .249 | | | | .0805 | | | | | | | | | | | |
| .399 | | | | | | | | | | .0486 | | | | | |
| .400 | | | | .0785 | | | | | | | | | | | |
| .500 | .1088 | | | | | | .1125 | | | | | | | | |
| .599 | | | | | | | | | | | .0598 | | | | |
| .601 | | | | | | .1204 | | | | | | | | | |
| .749 | | | | | | | | .0863 | | | | | | | |
| .848 | | .1329 | | | | | | | | | | | | | |
| .950 | | | .1711 | | | | | | | | | | | | |

MACH (3) = 7.922 HAW/HT(1) = .850 RE/FT = 7.5500 PO = 2310.0 TO = 1591.0 HO = 10.090

SECTION (1) WING L S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .3757 | | | | |
| .248 | | | | | | | .4061 | | | | | | | | .4239 |
| .396 | | | | | | | | | .7731 | | | | | | |
| .399 | | | | | | | | | | | | .5071 | | | |
| .412 | | | | .7036 | | | | | | | | | | | |
| .498 | | | | | | | | .0000 | | | | | | | |
| .499 | | 1.2218 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .7505 | | | | | | .6309 |
| .738 | | | .9226 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .4977 | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (ROUGH11)

MACH (3) = 7.922 HAW/HT (1) = 850

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 3040 3130 .3160 .4400 .4510

2Y/B

.849 .0000
 .948 .5112
 1.000 .0239

X/C .4970 .5160 .5360 .5680 .5950 .6120 7110 .7160 .8840 9060 9120

2Y/B

.248 .3571
 .249 .4996
 .399 .2590
 .400 .4708
 .500 .6354 .4761
 .599 .3124
 .601 .0000
 .749 .3740
 .848 .6199
 .950 .5095

MACH (3) = 7.922 HAW/HT (2) = .900 RE/FT = 7.5500 PO = 2310.0 T0 = 1591.0 H0 = 10.090

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 3040 3130 .3160 .4400 .4510

2Y/B

.247 .3437
 .248 .3715 .3877
 .396
 .399 .7071 .4639
 .412 .6436
 .498 .0000
 .499 1.1177
 .599 .6665 .5771
 .739 .8439
 .750 .4552
 .849 .0000
 .948 .4676
 1.000 .0219

X/C .4970 .5160 .5360 .5680 .5950 .6120 7110 .7160 .8840 .9060 .9120

2Y/B

.248 .3266
 .249 .4570
 .399 2369

OH12/IH21 (CAL HST 173-100) 37 0 WING L S.

(RUGH11)

MACH (3) = 7.922 HAW/HT(2) = .900

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .6840 .9060 .9120

2Y/B

.400 .4306
 500 5812 .4355
 .599 .2858
 .601 .0000
 749 .3421
 848 .5670
 950 .4660

MACH (3) = 7.922 HAW/HT(3) = 1.000 RE/FT = 7.5500 PO = 2310.0 TO = 1591.0 H0 = 10.090

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247 .2936
 .248 .3173 .3312
 .396 .6041
 .399 .3963
 412 .5498
 .498 .0000
 499 .9548
 .599 .5864 .4930
 .738 .7210
 .750 .3889
 .849 .0000
 .948 .3995
 1.000 .0167

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .6840 .9060 .9120

2Y/B

248 .2790
 249 .3904
 .399 .2024
 .400 .3679
 .500 4965 .3721
 .599 .2441
 .601 .0000
 749 .2923
 848 .4844
 .950 .3981

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (ROUGH!!)

MACH (4) = 10.520 HAW/HT (1) = .850 RE/FT = 1.0520 PO = 2686.0 TO = 3202.0 HO = 21 360

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

247 .1086
 248 .0962
 .396 .1447
 .399 .0000
 412 .1146
 .498 .2315
 499 .6797
 599 .2074 .1578
 738 .4278
 .750 .1973
 849 .0000
 948 .2822
 1 000 .0218

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

248 .0609
 249 .0858
 399 .0469
 400 .0998
 500 .1460 .1629
 599 .0632
 .601 .1131
 .749 .1580
 848 .1565
 .950 .1638

MACH (4) = 10.520 HAW/HT (2) = .900 RE/FT = 1.0520 PO = 2686.0 TO = 3202.0 HO = 21 360

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

247 .1014
 248 .0898
 .396 .1351
 .399 .0000
 412 .1069
 .498 .2641
 .499 .2161
 .499 .6345
 .599 .1936 .1473
 .738 .3993
 750 .1842

OH12/IH21 (CAL HST 173-100) 37 0 WING L S

(RUGH11)

MACH (4) = 10.520 HAW/HT (2) = .900

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3180 .4400 .4510

2Y/B

.849 .0000

.948 .2635

1.000 .0203

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248 .0569

.249 .0801

.399 .0438

.400 .0932

.500 1363 .1521

.599 .0590

.601 .1056

.749 .1475

.848 .1461

.950 .1627

MACH (4) = 10.520 HAW/HT (3) = 1.000 RE/FT = 1.0520 PO = 2686.0 TO = 3202.0 HO = 21.360

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247 .0895

.248 .1193 .0793

.396 .0000

.399 .0944

.412 .2331

.498 .1907

.499 .5601 .1709 .1301

.599 .738 3525 .1626

.750 .0000

.849 .2326

.948 .0180

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248 .0502

.249 .0707

.399 .0387

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH11)

MACH (4) = 10.520 HAW/HT(3) = 1.000

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
| 2Y/B | | | | | | | | | | | |
| 400 | | | | 0823 | | | | | | | |
| 500 | .1203 | | | | | | | | | | |
| 599 | | | | | | | | | | | .0521 |
| 601 | | | | | | .0932 | | | | | |
| 749 | | | | | | | | .1300 | | | |
| 848 | | .1289 | | | | | | | | | |
| .950 | | | .1348 | | | | | | | | |

MACH (5) = 12.200 HAW/HT(1) = .850 RE/FT = .25390 PO = 1613 0 TO = 3922 0 HO = 27.090

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|
| X/C | 0000 | 0380 | 0420 | .0670 | 1010 | 1460 | 1610 | .1900 | .2020 | .2110 | 3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | 1097 | | | | |
| 248 | | | | | | | 1156 | | | | | | | | .0874 |
| 396 | | | | | | | | | .0000 | | | | | | |
| 399 | | | | | | | | | | | | .1031 | | | |
| .412 | | | | .2444 | | | | | | | | | | | |
| 498 | | | | | | | | .1887 | | | | | | | |
| .499 | | 4066 | | | | | | | | | | | | | |
| 599 | | | | | | | | | .1834 | | | | | | .1543 |
| 738 | | | .4163 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | .1461 | | | |
| 849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2195 | | | | | | | | | |
| 1.000 | .0235 | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

| | | | | | | | | | | | |
|------|-------|------|-------|-------|-------|-------|-------|--|-------|------|-------|
| 248 | | | | | | | | | .0563 | | |
| .249 | | | | | 0813 | | | | | | |
| .399 | | | | | | | | | | 0411 | |
| .400 | | | | .0838 | | | | | | | |
| .500 | .1416 | | | | | .1285 | | | | | .0625 |
| 599 | | | | | | | | | | | |
| 601 | | | | | .1192 | | | | | | |
| 749 | | | | | | | .1198 | | | | |
| 848 | | 1111 | | | | | | | | | |
| 950 | | | .1411 | | | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 HING L.S. (RUGH11)
 MACH (5) = 12.200 HAW/HT (2) = .900 RE/FT = .25390 PO = 1613.0 TO = 3922.0 HO = 27.090

| SECTION (1) HING L.S. | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
|-------------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | 1900 | .2020 | .2110 | .3040 | 3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .1027 | | | | |
| .248 | | | | | | | .1082 | | | | | | | | .0818 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .0966 | | | |
| .412 | | | | .2288 | | | | | | | | | | | |
| .498 | | | | | | | | .1766 | | | | | | | |
| .499 | | .3807 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1717 | | | | | .1444 | |
| .738 | | | .3898 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .1367 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2054 | | | | | | | | | |
| 1 000 | .0220 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0527 | | | | | | |
| .249 | | | | | .0761 | | | | | | | | | | |
| .399 | | | | | | | | | | .0384 | | | | | |
| .400 | | | | .0784 | | | | | | | | | | | |
| .500 | .1326 | | | | | | .1203 | | | | | | | | |
| .599 | | | | | | | | | | | .0585 | | | | |
| .601 | | | | | | .1118 | | | | | | | | | |
| .749 | | | | | | | | .1121 | | | | | | | |
| .848 | | .1041 | | | | | | | | | | | | | |
| .950 | | | .1321 | | | | | | | | | | | | |

MACH (5) = 12.200 HAW/HT (3) = 1.000 RE/FT = .25390 PO = 1613.0 TO = 3922.0 HO = 27.090

| SECTION (1) HING L.S. | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
|-------------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0911 | | | | |
| .248 | | | | | | | .0960 | | | | | | | | .0726 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .0856 | | | |
| .412 | | | | .2029 | | | | | | | | | | | |
| .498 | | | | | | | | .1566 | | | | | | | |
| .499 | | .3376 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1523 | | | | | .1281 | |
| .738 | | | .3456 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | .1213 | | | |

ORIGINAL PAGE IS
 OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(ROUGH!!)

MACH (5) = 12.200 HAW/HT(3) = 1 000

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

849

.948

1.000

| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

248

.249

399

400

500

599

601

749

848

.950

MACH (6) = 16.070 HAW/HT(1) = .850 RE/FT = .45820-01 P0 = 560 60 T0 = 3667 0 H0 = 25 040

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

247

248

396

399

.412

498

499

599

738

750

849

948

1 000

| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

248

.249

.399

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(ROUGH!!)

MACH (6) = 18.070 HAW/HT(1) = .850

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
| 2Y/B | | | | | | | | | | | |
| .400 | | | | .0893 | | | | | | | |
| .500 | .1426 | | | | | | .1012 | | | | |
| .599 | | | | | | | | | | | .0724 |
| .601 | | | | | | .1546 | | | | | |
| .749 | | | | | | | | 1128 | | | |
| .848 | | 1166 | | | | | | | | | |
| .950 | | | 1475 | | | | | | | | |

MACH (6) = 16 070 HAW/HT(2) = .900 RE/FT = .45820-01 P0 = 560.60 TO = 3667.0 HO = 25.040

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | 0000 | .0380 | .0420 | .0670 | .1010 | 1460 | 1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | | .0956 | | | |
| .248 | | | | | | | .1056 | | | | | | | | .0839 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .1008 | | | |
| .412 | | | | .2197 | | | | | | | | | | | |
| .498 | | | | | | | | .1919 | | | | | | | |
| .499 | | .4826 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1731 | | | | | .1488 | |
| .738 | | | .3807 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .1291 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2365 | | | | | | | | | |
| 1 000 | .0289 | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5180 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
| 2Y/B | | | | | | | | | | | |
| .248 | | | | | | | | | .0527 | | |
| .249 | | | | | .0752 | | | | | | |
| .399 | | | | | | | | | | .0398 | |
| .400 | | | | .0835 | | | | | | | |
| .500 | .1334 | | | | | | .0946 | | | | |
| .599 | | | | | | | | | | .0677 | |
| .601 | | | | | | .1446 | | | | | |
| .749 | | | | | | | .1055 | | | | |
| .848 | .1091 | | | | | | | | | | |
| .950 | | | .1380 | | | | | | | | |

0.3

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 139

OH12/IH21 (CAL HST 173-100) 37 0 WING L S.

(RUGH11)

MACH (7) = 19.150 HAW/HT(1) = .850

SECTION (1) WING L S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2061 | | | | | | | | | |
| 1.000 | .0215 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5580 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0487 | | | | | | |
| .249 | | | | | .0764 | | | | | | | | | | |
| .399 | | | | | | | | | | .0402 | | | | | |
| .400 | | | | .0505 | | | | | | | | | | | |
| .500 | .1062 | | | | | | .0699 | | | | | | | | |
| .599 | | | | | | | | | | | .0483 | | | | |
| .601 | | | | | | .1065 | | | | | | | | | |
| .749 | | | | | | | | .0000 | | | | | | | |
| .848 | | .0923 | | | | | | | | | | | | | |
| .950 | | | .1153 | | | | | | | | | | | | |

MACH (7) = 19.150 HAW/HT(2) = .900 RE/FT = .43340-01 P0 = 1643.0 T0 = 4746.0 H0 = 33.960

SECTION (1) WING L S

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0781 | | | | |
| .248 | | | | | | | .0826 | | | | | | | | .0572 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .0771 | | | |
| .412 | | | | .1584 | | | | | | | | | | | |
| .498 | | | | | | | | .1488 | | | | | | | |
| .499 | | .4055 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1377 | | | | | | .1175 |
| .738 | | | .2802 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .1062 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .1933 | | | | | | | | | |
| 1.000 | .0202 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5580 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0457 | | | | | | |
| .249 | | | | | .0717 | | | | | | | | | | |
| .399 | | | | | | | | | | .0377 | | | | | |

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 141

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUOH12) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290 3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 35.000 BETA = .000

MACH (1) = 6.993 HAW/HT(1) = .850 RE/FT = .12520 P0 = 363.90 T0 = 5492.0 H0 = 41.400

SECTION (1) WING L.S

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-----|------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | 0000 | 0380 | .0420 | .0870 | .1010 | .1460 | 1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-----|------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

.247

.248

.396

.399

.412

.498

.499

.599

.738

.750

.849

.948

1.000

| | | | | | | | | | | | | | | | |
|-----|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|--|--|--|--|
| X/C | 4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | 7160 | .8840 | .9060 | .9120 | | | | |
|-----|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|--|--|--|--|

2Y/B

.248

.249

.399

.400

.500

.599

.601

.749

.848

.950

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (RUGH12)
 MACH (1) = 6.993 HAW/HT (2) = 900 RE/FT = .12520 PO = 363.90 T0 = 5492.0 H0 = 41.400

SECTION (1) WING L S DEPENDENT VARIABLE H/HREF

X/C 0000 0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247 1610
 .248 1792 0000
 .396 .0000
 .399 0000
 .412 .2652
 .498 .2847
 .499 .5164
 .599 2539 .1808
 .738 .0000
 .750 .1798
 .849 .8514
 .948 .2409
 1 000 .0121

X/C 4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 8840 9060 9120

2Y/B

.248 0925
 .249 1316
 .399 .0568
 .400 .1060
 .500 0000 .1134
 .599 .0818
 .601 .1617
 .749 .0000
 .848 .1564
 .950 .2537

MACH (1) = 6.993 HAW/HT (3) = 1 000 RE/FT = .12520 PO = 363.90 T0 = 5492.0 H0 = 41.400

SECTION (1) WING L S DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247 .1435
 .248 .1598 0000
 .396 .0000
 .399 .0000
 .412 .2365
 .498 .2539
 .499 .4608
 .599 .2264 .1812
 .738 .0000
 .750 .1603

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(ROUGH12)

MACH (1) = 6.893 HAW/HT(3) = 1.000

| SECTION (1) WING L.S. | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
|-------------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .849 | | | | | 7592 | | | | | | | | | | |
| .948 | | | | | | .2148 | | | | | | | | | |
| 1.000 | .0108 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0825 | | | | | | |
| .249 | | | | | .1174 | | | | | | | | | | |
| .399 | | | | | | | | | | .0507 | | | | | |
| .400 | | | | .0946 | | | | | | | | | | | |
| .500 | .0000 | | | | | | .1011 | | | | | | | | |
| .599 | | | | | | | | | | | .0730 | | | | |
| .601 | | | | | | .1442 | | | | | | | | | |
| .749 | | | | | | | | .0000 | | | | | | | |
| .848 | | .1395 | | | | | | | | | | | | | |
| .950 | | | .2263 | | | | | | | | | | | | |

MACH (2) = 7.922 HAW/HT(1) = .850 RE/FT = 7.5700 PO = 2199.0 TO = 1538.0 HO = 9.7660

| SECTION (1) WING L.S. | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
|-------------------------|-------|---------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .4095 | | | | |
| .248 | | | | | | | .4331 | | | | | | | | .4461 |
| .396 | | | | | | | | | | .6740 | | | | | |
| .399 | | | | | | | | | | | | .6236 | | | |
| .412 | | | | .6762 | | | | | | | | | | | |
| .498 | | | | | | | | .0000 | | | | | | | |
| .499 | | 1.2245 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .8439 | | | | | .7290 | |
| .738 | | | 1.0395 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .6312 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .5320 | | | | | | | | | |
| 1.000 | .0193 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .4043 | | | | | | |
| .249 | | | | | .5317 | | | | | | | | | | |
| .399 | | | | | | | | | | .2989 | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH12)

MACH (2) = 7.922 HAW/HT(1) = 850

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.400 .3816
 .500 .6983 5621
 .599 .3062
 601 .6116
 749 .5267
 848 .6723
 950 .6807

MACH (2) = 7.922 HAW/HT(2) = .900 RE/FT = 7.5700 P0 = 2199.0 T0 = 1538.0 H0 = 9.7660

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

X/C 0000 .0380 .0420 .0670 1010 1460 1610 .1900 2020 2110 .3040 .3130 3160 .4400 .4510

2Y/B

247 .3740
 248 .3956 .4075
 396 .6156
 .399 .5695
 .412 .6176
 498 .0000
 499 1.1184
 .599 .7708 .6659
 .738 .9495
 750 .5765
 849 0000
 948 .4859
 1 000 0176

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

248 .3693
 249 .4857
 399 .2730
 400 .3486
 500 .6378 .5134
 599 .2797
 601 .5586
 .749 .4811
 848 .6141
 950 .6217

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (RUGH12)

MACH (2) = 7.922 HAW/HT (3) = 1.000 RE/FT = 7.5700 PO = 2199.0 TO = 1538.0 HO = 9.7660

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .3188 | | | | |
| .248 | | | | | | | .3372 | | | | | | | | .3473 |
| .396 | | | | | | | | | | 5247 | | | | | |
| .399 | | | | | | | | | | | | .4854 | | | |
| .412 | | | | .5264 | | | | | | | | | | | |
| .498 | | | | | | | | .0000 | | | | | | | |
| .499 | | .9532 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .6569 | | | | | | .5675 |
| .738 | | | .8093 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | | .4914 | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .4141 | | | | | | | | | |
| 1.000 | .0150 | | | | | | | | | | | | | | |

X/C 4970 5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 9120

2Y/B

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|--|-------|-------|-------|--|--|--|--|--|
| .248 | | | | | | | | | .3147 | | | | | | |
| .249 | | | | | .4139 | | | | | | | | | | |
| .399 | | | | | | | | | | .2327 | | | | | |
| .400 | | | | .2971 | | | | | | | | | | | |
| .500 | .5436 | | | | | .4376 | | | | | | | | | |
| .599 | | | | | | | | | | .2384 | | | | | |
| .601 | | | | | | .4761 | | | | | | | | | |
| .749 | | | | | | | | .4101 | | | | | | | |
| .848 | | .5234 | | | | | | | | | | | | | |
| .950 | | | .5299 | | | | | | | | | | | | |

MACH (3) = 8.058 HAW/HT (1) = .850 RE/FT = 1.1090 PO = 894.80 TO = 2594.0 HO = 16.850

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | 1308 | | | | |
| .248 | | | | | | | .1339 | | | | | | | | .1022 |
| .396 | | | | | | | | | | .3277 | | | | | |
| .399 | | | | | | | | | | | | .1514 | | | |
| .412 | | | | .2989 | | | | | | | | | | | |
| .498 | | | | | | | | .0000 | | | | | | | |
| .499 | | .5668 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .2685 | | | | | | .2209 |
| .738 | | | .5050 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .1903 | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L S (RUGW12)

MACH (3) = 8.058 HAW/HT(1) = 850

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.849 .7485
 .948 .3009
 1.000 .0163

X/C .4970 .5160 .5360 .5680 .5950 6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248 .0783
 249 1539
 .399 .0468
 .400 .1046
 500 .1759 .1471
 599 .0548
 601 1717
 .749 2107
 .848 .1639
 .950 .2673

MACH (3) = 8.058 HAW/HT(2) = .900 RE/FT = 1.1090 PO = 894.80 TO = 2594.0 HO = 16.850

SECTION (1) WING L S DEPENDENT VARIABLE H/HREF

X/C 0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247 .1216
 248 .1245 .0950
 396 .3047
 .399 .1408
 412 .2779
 498 .0000
 499 .5271 .2497 .2054
 599 .4696
 .738 .1769
 .750
 849 .6960
 948 .2798
 1 000 .0152

X/C .4970 .5160 .5360 .5680 .5950 6120 .7110 .7160 .8840 .9060 9120

2Y/B

.248 .0728
 249 1431
 399 .0435

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (RUGH12)

MACH (3) = 8.058 HAW/HT(2) = .900

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
| 2Y/B | | | | | | | | | | | |
| .400 | | | | .0972 | | | | | | | |
| .500 | .1636 | | | | | | .1368 | | | | |
| .599 | | | | | | | | | | .0510 | |
| .601 | | | | | | .0597 | | | | | |
| .749 | | | | | | | | .1959 | | | |
| 848 | | .1524 | | | | | | | | | |
| 950 | | | .2486 | | | | | | | | |

MACH (3) = 8.058 HAW/HT(3) = 1.000 RE/FT = 1.1090 PO = 894.80 TO = 2594.0 HO = 16.850

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | 0000 | .0360 | .0420 | .0670 | .1010 | .1460 | 1610 | .1900 | 2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | .1066 | | | | |
| 248 | | | | | | | .1092 | | | | | | | | 0833 |
| .396 | | | | | | | | | | .2672 | | | | | |
| .399 | | | | | | | | | | | | .1235 | | | |
| .412 | | | | .2437 | | | | | | | | | | | |
| .498 | | | | | | | | .0000 | | | | | | | |
| 499 | | .4622 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .2190 | | | | | | .1802 |
| 738 | | | .4118 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | .1552 | | |
| 849 | | | | | .6103 | | | | | | | | | | |
| .948 | | | | | | .2453 | | | | | | | | | |
| 1.000 | .0133 | | | | | | | | | | | | | | |

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0638 | | | | | | |
| 249 | | | | | .1255 | | | | | | | | | | |
| .399 | | | | | | | | | | .0382 | | | | | |
| .400 | | | | .0853 | | | | | | | | | | | |
| 500 | .1434 | | | | | | .1200 | | | | | | | | |
| 599 | | | | | | | | | | | .0447 | | | | |
| 601 | | | | | | .1400 | | | | | | | | | |
| .749 | | | | | | | | .1718 | | | | | | | |
| 848 | | .1337 | | | | | | | | | | | | | |
| .950 | | | .2180 | | | | | | | | | | | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (RUGH12)
 MACH (4) = 10.730 HAW/HT(1) = 850 RE/FT = 1.9260 PO = 3618.0 TO = 2727.0 HO = 17.750

SECTION (1) WING L S DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247
 .248
 .396
 .399
 412
 .498
 .499 6277
 .599
 .738 .4160
 .750
 .849 .0000
 .948 2882
 1.000 0239

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248
 .249
 399
 .400
 500 .1396
 .599
 601
 749
 848 .2549
 950 .1716

MACH (4) = 10.730 HAW/HT(2) = .900 RE/FT = 1.9260 PO = 3618.0 TO = 2727.0 HO = 17.750

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C 0000 0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 2110 3040 .3130 3160 .4400 4510

2Y/B

.247
 .248
 .396
 .399
 .412 2570
 .498 .2026
 .499 .5843
 .599 .1645
 .738 3872
 750 .1824

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (RUGH12)

MACH (4) = 10.730 HAW/HT(2) = 900

| SECTION (1) WING L.S. | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
|-------------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | .0000 | | | | | | | | | | |
| .849 | | | | | | .2683 | | | | | | | | | |
| .948 | | | | | | | | | | | | | | | |
| 1.000 | .0223 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | .0520 | | | | | | |
| .248 | | | | | | | | | | | | | | | |
| .249 | | | | | .0783 | | | | | | | | | | |
| .399 | | | | | | | | | | .0424 | | | | | |
| .400 | | | | .0811 | | | | | | | | | | | |
| .500 | .1299 | | | | | .1485 | | | | | | | | | |
| .599 | | | | | | | | | | | .0589 | | | | |
| .601 | | | | | | .1128 | | | | | | | | | |
| .749 | | | | | | | | .1271 | | | | | | | |
| .848 | | .2373 | | | | | | | | | | | | | |
| .950 | | | .1597 | | | | | | | | | | | | |

MACH (4) = 10.730 HAW/HT(3) = 1.000 RE/FT = 1.9260 P0 = 3618.0 T0 = 2727.0 H0 = 17.750

| SECTION (1) WING L.S. | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | |
|-------------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | .0862 | | | | |
| .247 | | | | | | | | | | | | | | | |
| .248 | | | | | | .1039 | | | | | | | | | .0695 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .1012 | | | |
| .412 | | | | .2258 | | | | | | | | | | | |
| .498 | | | | | | | | .1780 | | | | | | | |
| .499 | | .5132 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1445 | | | | | | .1299 |
| .738 | | | .3401 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .1602 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2357 | | | | | | | | | |
| 1.000 | .0196 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | .0456 | | | | | | |
| .248 | | | | | | | | | | | | | | | |
| .249 | | | | | .0688 | | | | | | | | | | |
| .399 | | | | | | | | | | .0372 | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (RUGH12)

MACH (5) = 12.230 HAW/HT(2) = .900 RE/FT = .26590 PO = 1621.0 TO = 3839.0 HO = 26.440

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247
 .248 .1095
 .396 .1354 .0000 .0946
 .399 .1146
 .412 .2397
 .498 .2125
 .499 .4921
 .599 .2126 .1546
 .738 .3954
 .750 .1639
 .849 .0000
 .948 .2391
 1.000 .0135

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248 .0663
 .249 .0905
 .399 .0470
 .400 .0901
 .500 .1475 .1148
 .599 .0651
 .601 .1307
 .749 .1135
 .848 .1324
 .950 .1598

MACH (5) = 12.230 HAW/HT(3) = 1.000 RE/FT = .26590 PO = 1621.0 TO = 3839.0 HO = 26.440

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247
 .248 .1201 .0970 .0839
 .396 .0000
 .399 .1016
 .412 .2125 .1884
 .498 .1884
 .499 .4362
 .599 .1885 .1371
 .738 .3505
 .750 .1453

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH12)

MACH (5) = 12 230 HAW/HT(3) = 1 000

SECTION (1) WING L S

DEPENDENT VARIABLE H/HREF

| X/C | 0000 | .0380 | 0420 | .0670 | .1010 | 1460 | 1610 | .1900 | .2020 | 2110 | .3040 | 3130 | 3160 | .4400 | 4510 |
|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|------|------|-------|------|
| 2Y/B | | | | | | | | | | | | | | | |
| 849 | | | | | .0000 | | | | | | | | | | |
| 948 | | | | | | 2120 | | | | | | | | | |
| 1 000 | .0119 | | | | | | | | | | | | | | |
| X/C | 4970 | 5160 | 5360 | 5680 | 5950 | 6120 | 7110 | .7160 | 8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| 248 | | | | | | | | | 0587 | | | | | | |
| 249 | | | | | .0802 | | | | | | | | | | |
| .399 | | | | | | | | | | .0416 | | | | | |
| .400 | | | | .0799 | | | | | | | | | | | |
| 500 | 1307 | | | | | | 1017 | | | | | | | | |
| 599 | | | | | | | | | | | 0577 | | | | |
| 601 | | | | | | .1159 | | | | | | | | | |
| 749 | | | | | | | | .1006 | | | | | | | |
| 848 | | .1174 | | | | | | | | | | | | | |
| .950 | | | 1417 | | | | | | | | | | | | |

MACH (6) = 15 960 HAW/HT(1) = .850 RE/FT = 43170-01 P0 = 536.10 TO = 3720.0 HG = 25 490

SECTION (1) WING L S

DEPENDENT VARIABLE H/HREF

| X/C | 0000 | 0380 | .0420 | .0670 | .1010 | .1460 | .1610 | 1900 | .2020 | .2110 | 3040 | .3130 | .3160 | 4400 | .4510 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | .1173 | | | | |
| .248 | | | | | | | 1367 | | | | | | | | .0952 |
| 396 | | | | | | | | | .0000 | | | | | | |
| 399 | | | | | | | | | | | .1221 | | | | |
| 412 | | | | .2173 | | | | | | | | | | | |
| 498 | | | | | | | | 2105 | | | | | | | |
| 499 | | 4969 | | | | | | | | | | | | | |
| 599 | | | | | | | | | .2136 | | | | | .1629 | |
| .738 | | | .3976 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | | .0000 | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2548 | | | | | | | | | |
| 1 000 | .0221 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| 248 | | | | | | | | | 0683 | | | | | | |
| 249 | | | | | .1088 | | | | | | | | | | |
| 399 | | | | | | | | | | .0581 | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH12)

MACH (6) = 15.960 HAH/HT (1) = .850

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
| 2Y/B | | | | | | | | | | | |
| .400 | | | | .1013 | | | | | | | |
| .500 | .1372 | | | | | .1161 | | | | | |
| .599 | | | | | | | | | | .0748 | |
| .601 | | | | | .1555 | | | | | | |
| .749 | | | | | | | | .0000 | | | |
| .848 | | .1333 | | | | | | | | | |
| .950 | | | 1446 | | | | | | | | |

MACH (6) = 15.960 HAH/HT (2) = .900 RE/FT = .43170-01 P0 = 536.10 T0 = 3720.0 H0 = 25.490

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .1098 | | | | .0891 |
| .248 | | | | | | | .1279 | | | | | | | | |
| .396 | | | | | | | | | .0000 | | | | | | |
| .399 | | | | | | | | | | | .1142 | | | | |
| .412 | | | | .2033 | | | | | | | | | | | |
| .498 | | | | | | | | .1969 | | | | | | | |
| .499 | | .4649 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1998 | | | | | | .1524 |
| .738 | | | .3720 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | .0000 | | | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2384 | | | | | | | | | |
| 1.000 | .0207 | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
| 2Y/B | | | | | | | | | | | |
| .248 | | | | | | | | | .0639 | | |
| .249 | | | | | .1018 | | | | | | |
| .399 | | | | | | | | | | .0544 | |
| .400 | | | | .0948 | | | | | | | |
| .500 | .1283 | | | | | | .1086 | | | | |
| .599 | | | | | | | | | | .0699 | |
| .601 | | | | | .1455 | | | | | | |
| .749 | | | | | | | | .0000 | | | |
| .848 | | .1247 | | | | | | | | | |
| .950 | | | .1353 | | | | | | | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L S (RUGH12)
 MACH (6) = 15 960 HAW/HT(3) = 1.000 RE/FT = .43170-01 PO = 536.10 T0 = 3720.0 H0 = 26.490

SECTION (1) WING L S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | 0973 | | | | |
| .248 | | | | | | | .1133 | | | | | | | | .0789 |
| .396 | | | | | | | | | | 0000 | | | | | |
| .399 | | | | | | | | | | | | 1012 | | | |
| .412 | | | | .1801 | | | | | | | | | | | |
| .498 | | | | | | | | .1745 | | | | | | | |
| .499 | | .4118 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1770 | | | | | | .1350 |
| .738 | | | 3296 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0000 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | 2112 | | | | | | | | | |
| 1 000 | .0183 | | | | | | | | | | | | | | |

X/C 4970 5160 .5360 5680 .5950 .6120 .7110 .7160 8840 9060 9120

2Y/B

| | | | | | | | | | | | | | | | |
|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| .248 | | | | | | | | | .0566 | | | | | | |
| .249 | | | | | .0902 | | | | | | | | | | |
| .399 | | | | | | | | | | .0482 | | | | | |
| .400 | | | | .0640 | | | | | | | | | | | |
| .500 | .1137 | | | | | | .0962 | | | | | | | | |
| .599 | | | | | | | | | | | .0620 | | | | |
| .601 | | | | | | .1289 | | | | | | | | | |
| .749 | | | | | | | | .0000 | | | | | | | |
| .848 | | 1105 | | | | | | | | | | | | | |
| .950 | | | .1199 | | | | | | | | | | | | |

MACH (7) = 19 160 HAW/HT(1) = .850 RE/FT = .44730-01 PO = 1704 0 T0 = 4753.0 H0 = 34.030

SECTION (1) WING L S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0946 | | | | |
| .248 | | | | | | | .1149 | | | | | | | | .0836 |
| .396 | | | | | | | | | .0000 | | | | | | |
| .399 | | | | | | | | | | | | .1058 | | | |
| .412 | | | | | 2000 | | | | | | | | | | |
| .498 | | | | | | | | .1729 | | | | | | | |
| .499 | | .4208 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1937 | | | | | | .1466 |
| .738 | | | 3460 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .1401 | | |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 155

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH12)

MACH (7) = 19.160 HAW/HT(1) = 850

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.849

.948

1.000

0144

.0000

.2158

X/C 4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248

.249

.399

.400

.500

.599

.601

.749

.848

.950

.0000

.0931

.0000

.0615

.0949

.0471

.0531

.1235

.1153

.1028

.1211

MACH (7) = 19.160 HAW/HT(2) = .900 RE/FT = .44730-01 PO = 1704.0 TO = 4753.0 HO = 34.030

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C 0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247

.248

.396

.399

.412

.498

.499

.599

.738

.750

.849

.948

1.000

.3947

.1876

.1621

.0887

.0000

.0992

.0784

.1817

.1375

.3246

.1314

.0000

.2024

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248

.249

.399

.0890

.0577

.0442

OH12/IH21 (CAL HST 173-100) 37 0 WING L S

(RUGH12)

MACH (7) = 19.160 HAW/HT(2) = 900

SECTION (1) WING L S DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
| 2Y/B | | | | | | | | | | | |
| 400 | | | | .0779 | | | | | | | |
| 500 | .0000 | | | | | | .0000 | | | | |
| 599 | | | | | | | | | | | .0498 |
| 601 | | | | | | 1160 | | | | | |
| 749 | | | | | | | | .1081 | | | |
| 848 | | .0964 | | | | | | | | | |
| 950 | | | 1136 | | | | | | | | |

MACH (7) = 19.160 HAW/HT(3) = 1 000 RE/FT = .44730-01 P0 = 1704.0 T0 = 4753 0 H0 = 34 030

SECTION (1) WING L S DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | 0000 | 0380 | 0420 | .0670 | 1010 | 1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | 4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | .0790 | | | | |
| 248 | | | | | | | .0959 | | | | | | | | .0697 |
| 396 | | | | | | | | | | .0000 | | | | | |
| 399 | | | | | | | | | | | | .0883 | | | |
| .412 | | | | .1669 | | | | | | | | | | | |
| 498 | | | | | | | | .1443 | | | | | | | |
| 499 | | .3512 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1616 | | | | | | .1223 |
| .738 | | | .2888 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | .1169 | | | |
| .849 | | | | | 0000 | | | | | | | | | | |
| 948 | | | | | | 1801 | | | | | | | | | |
| 1 000 | .0120 | | | | | | | | | | | | | | |

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|--|
| 2Y/B | | | | | | | | | | | |
| .248 | | | | | | | | .0513 | | | |
| 249 | | | | | .0792 | | | | | | |
| 399 | | | | | | | | | .0393 | | |
| 400 | | | | .0693 | | | | | | | |
| 500 | .0000 | | | | | | .0000 | | | | |
| 599 | | | | | | | | | | .0443 | |
| 601 | | | | | | 1032 | | | | | |
| 749 | | | | | | | | .0962 | | | |
| 848 | | .0858 | | | | | | | | | |
| 950 | | | .1011 | | | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L S. (RUGH13)
 MACH (1) = 7.921 HAW/HT(2) = 900 RE/FT = 7.4790 PO = 2300.0 TO = 1596.0 HO = 10.120

SECTION (1) WING L S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 | |
| 2Y/B | | | | | | | | | | | 4654 | | | | 4867 | |
| .247 | | | | | | | | | | | | | | | | |
| .248 | | | | | | | .4447 | | | | | | | | | |
| .396 | | | | | | | | | | .7521 | | | | | | |
| .399 | | | | | | | | | | | | .5983 | | | | |
| .412 | | | | .5783 | | | | | | | | | | | | |
| .498 | | | | | | | | .0000 | | | | | | | | |
| .499 | | 6790 | | | | | | | | | | | | | | |
| .599 | | | | | | | | | .7681 | | | | | | 6877 | |
| .738 | | | 1.0013 | | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | 5210 | | | |
| .849 | | | | .0000 | | | | | | | | | | | | |
| .948 | | | | | | .6297 | | | | | | | | | | |
| 1.000 | .0121 | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | | |
| 2Y/B | | | | | | | | | .4204 | | | | | | | |
| .248 | | | | | | | | | | | | | | | | |
| .249 | | | | | 5331 | | | | | | | | | | | |
| .399 | | | | | | | | | | .3538 | | | | | | |
| .400 | | | | 4817 | | | | | | | | | | | | |
| .500 | .5896 | | | | | 5453 | | | | | | | | | | |
| .599 | | | | | | | | | | .3276 | | | | | | |
| .601 | | | | | | .0000 | | | | | | | | | | |
| .749 | | | | | | | | 4413 | | | | | | | | |
| .848 | | 6788 | | | | | | | | | | | | | | |
| .950 | | | .6133 | | | | | | | | | | | | | |

MACH (1) = 7.921 HAW/HT(3) = 1.000 RE/FT = 7.4790 PO = 2300.0 TO = 1596.0 HO = 10.120

SECTION (1) WING L S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 | |
| 2Y/B | | | | | | | | | | | 3976 | | | | 4158 | |
| .247 | | | | | | | | | | | | | | | | |
| .248 | | | | | | | .3800 | | | | | | | | | |
| .396 | | | | | | | | | | .6425 | | | | | | |
| .399 | | | | | | | | | | | | .5112 | | | | |
| .412 | | | | .4941 | | | | | | | | | | | | |
| .498 | | | | | | | | .0000 | | | | | | | | |
| .499 | | .7510 | | | | | | | | | | | | | | |
| .599 | | | | | | | | | .6562 | | | | | | .5875 | |
| .738 | | | .8555 | | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .4452 | | | |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 159

OH12/IH21 (CAL HST 173-100) 37 0

WING L.S.

(RUGH13)

MACH (1) = 7.921 HAW/HT(3) = 1.000

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0870 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | .0000 | | | | | | | | | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .5380 | | | | | | | | | |
| 1.000 | .0103 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | .3592 | | | | | | |
| .248 | | | | | | | | | .3592 | | | | | | |
| .249 | | | | | .4555 | | | | | | | | | | |
| .399 | | | | | | | | | | .3023 | | | | | |
| .400 | | | | 4116 | | | | | | | | | | | |
| .500 | 5037 | | | | | .4659 | | | | | | | | | |
| .599 | | | | | | | | | | | .2799 | | | | |
| .601 | | | | | | .0000 | | | | | | | | | |
| .749 | | | | | | | | .3770 | | | | | | | |
| .848 | | .5800 | | | | | | | | | | | | | |
| 950 | | | .5240 | | | | | | | | | | | | |

MACH (2) = 8.024 HAW/HT(1) = .850 RE/FT = 1.0600 PO = 921.50 TO = 2712.0 HO = 17.700

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | .2526 | | | | |
| .247 | | | | | | | | | | | .2526 | | | | |
| .248 | | | | | | | .2241 | | | | | | | | .1839 |
| .396 | | | | | | | | | | .5554 | | | | | |
| .399 | | | | | | | | | | | | .3303 | | | |
| .412 | | | | .4131 | | | | | | | | | | | |
| .498 | | | | | | | | .0000 | | | | | | | |
| .499 | | .7518 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .4514 | | | | | .3107 | |
| .738 | | | .6949 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .2482 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .4197 | | | | | | | | | |
| 1.000 | .0107 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | .1355 | | | | | | |
| .248 | | | | | | | | | .1355 | | | | | | |
| .249 | | | | | .2307 | | | | | | | | | | |
| .399 | | | | | | | | | | .0872 | | | | | |

ORIGINAL PAGE IS
OF POOR QUALITY.

OH12/IH21 (CAL HST 173-100) 37 0 WING L S

(RUGH13)

MACH (2) = 8.024 HAW/HT(1) = .850

SECTION (1) WING L S. DEPENDENT VARIABLE H/HREF

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120.

2Y/B

400 .1963
 .500 .2410 2874
 599 .1181
 601 .0000
 749 .3160
 848 2078
 950 .4643

MACH (2) = 8.024 HAW/HT(2) = 900 RE/FT = 1.0600 PD = 921.50 TO = 2712.0 HO = 17.700

SECTION (1) WING L S DEPENDENT VARIABLE H/HREF

X/C 0000 0380 0420 .0670 .1010 1460 1610 .1900 .2020 .2110 3040 3130 .3160 4400 .4510

2Y/B

.247 2351
 248 .2085 .1711
 396 .5169
 399 3074
 412 3845
 498 .0000
 .499 6997
 .599 .4201 .2892
 738 .6467
 750 .2310
 849 .0000
 948 .3906
 1.000 .0100

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 9120

2Y/B

248 .1261
 .249 2147
 .399 .0812
 400 .1827
 500 .2243 .2675
 599 .1099
 601 .0000
 .749 .2941
 .848 .1934
 .950 4321

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.S. (RUGH14)

MACH (1) = 16.050 HAW/HT(2) = .900 RE/FT = .46340-01 P0 = 577.10 T0 = 3699.0 H0 = 25.320

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 3160 .4400 .4510

2Y/B

.247
 .248
 .396
 .399
 .412
 .498
 .499
 599
 .738
 .750
 .849
 948
 1.000

X/C 4970 5160 5360 .5680 .5950 .6120 .7110 .7160 8840 .9060 .9120

2Y/B

.248
 .249
 399
 400
 .500
 599
 601
 .749
 848
 .950

MACH (1) = 16.050 HAW/HT(3) = 1.000 RE/FT = .46340-01 P0 = 577.10 T0 = 3699.0 H0 = 25.320

SECTION (1) WING L.S DEPENDENT VARIABLE H/HREF

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247
 .248
 .396
 .399
 .412
 .498
 499
 .599
 .738
 .750

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH15) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 25.000 BETA = .000

MACH (1) = 12.030 HAW/HT(1) = 850 RE/FT = .95540 P0 = 4211.0 T0 = 3477 0 H0 = 23.460

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | 2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|

2Y/B

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|------|-------|-------|--|-------|-------|-------|-------|-------|------|--|-------|
| 247 | | | | | | | | | | | .1053 | | | | |
| 248 | | | | | | .1243 | | | | | | | | | .0859 |
| 396 | | | | | | | | | | .0000 | | | | | |
| 399 | | | | | | | | | | | | .1020 | | | |
| 412 | | | | 2876 | | | | | | | | | | | |
| 498 | | | | | | | | .2490 | | | | | | | |
| .499 | | .6885 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1392 | | | | | | .1409 |
| 738 | | | .4189 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | 1272 | | |
| 849 | | | | | .0000 | | | | | | | | | | |
| 948 | | | | | | .2375 | | | | | | | | | |
| 1 000 | .0304 | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

| | | | | | | | | | | | |
|------|-------|-------|--|-------|-------|-------|-------|--|-------|-------|--|
| .248 | | | | | | | | | .0000 | | |
| 249 | | | | | .1087 | | | | | | |
| 399 | | | | | | | | | .0467 | | |
| 400 | | | | .0898 | | | | | | | |
| 500 | .1850 | | | | | .1472 | | | | | |
| .599 | | | | | | | | | | .0574 | |
| 601 | | | | | .1222 | | | | | | |
| 749 | | | | | | | .1024 | | | | |
| .848 | .1056 | | | | | | | | | | |
| .950 | | .1481 | | | | | | | | | |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/1H21 (CAL HST 173-100) 37 0 WING L.S (ROUGH15)
 MACH (1) = 12.030 HAW/HT (2) = 900 RE/FT = .95540 PO = 4211.0 TO = 3477.0 HO = 23.460

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0984 | | | | .0803 |
| .248 | | | | | | .1162 | | | | | | | | | |
| .396 | | | | | | | | | .0000 | | | | | | |
| .399 | | | | | | | | | | | | .0954 | | | |
| .412 | | | | .2688 | | | | | | | | | | | |
| .498 | | | | | | | | .2328 | | | | | | | |
| .499 | | .6435 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1301 | | | | | | .1317 |
| .738 | | | .3915 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .1188 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2219 | | | | | | | | | |
| 1.000 | .0284 | | | | | | | | | | | | | | |

| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0000 | | | | | | |
| .249 | | | | | .1015 | | | | | | | | | | |
| .399 | | | | | | | | | | .0436 | | | | | |
| .400 | | | | .0840 | | | | | | | | | | | |
| .500 | .1730 | | | | | | .1375 | | | | | | | | |
| .599 | | | | | | | | | | | .0537 | | | | |
| .601 | | | | | | .1143 | | | | | | | | | |
| .749 | | | | | | | | .0957 | | | | | | | |
| .848 | | .0887 | | | | | | | | | | | | | |
| .950 | | | .1385 | | | | | | | | | | | | |

MACH (1) = 12.030 HAW/HT (3) = 1.000 RE/FT = .95540 PO = 4211.0 TO = 3477.0 HO = 23.460

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | | .0871 | | | |
| .248 | | | | | | .1028 | | | | | | | | | .0710 |
| .396 | | | | | | | | | .0000 | | | | | | |
| .399 | | | | | | | | | | | | | .0843 | | |
| .412 | | | | .2378 | | | | | | | | | | | |
| .498 | | | | | | | | .2059 | | | | | | | |
| .499 | | .5691 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1151 | | | | | .1165 | |
| .738 | | | .3463 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .1051 | | |

OH12/1H21 (CAL HST 173-100) 37 0 WING L.S. (RUGH15)

MACH (1) = 12 030 HAW/HT(3) = 1.000

| SECTION (1) WING L.S. | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | | |
|-------------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | | |
| | .849 | | | | | 0000 | | | | | | | | | | |
| | .948 | | | | | | .1963 | | | | | | | | | |
| | 1.000 | .0251 | | | | | | | | | | | | | | |
| X/C | | 4970 | .5160 | .5360 | .5680 | 5950 | .6120 | .7110 | .7160 | 8840 | 9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | | |
| | 248 | | | | | | | | | .0000 | | | | | | |
| | 249 | | | | | 0898 | | | | | | | | | | |
| | 399 | | | | | | | | | | .0386 | | | | | |
| | 400 | | | | .0742 | | | | | | | | | | | |
| | 500 | .1530 | | | | | | .1216 | | | | | | | | |
| | 599 | | | | | | | | | | | .0475 | | | | |
| | .601 | | | | | .1010 | | | | | | | | | | |
| | 749 | | | | | | | | .0846 | | | | | | | |
| | 848 | | .0873 | | | | | | | | | | | | | |
| | 950 | | | .1224 | | | | | | | | | | | | |

MACH (2) = 15 720 HAW/HT(1) = .850 RE/FT = .23850 P0 = 2417.0 T0 = 3531.0 HD = 23.940

| SECTION (1) WING L.S. | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | | |
|-------------------------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | | |
| | 247 | | | | | | | | | | | .0823 | | | | |
| | .248 | | | | | | | .1086 | | | | | | | | .0654 |
| | .396 | | | | | | | | | | 0000 | | | | | |
| | 399 | | | | | | | | | | | | .0952 | | | |
| | .412 | | | | .2547 | | | | | | | | | | | |
| | .498 | | | | | | | | .2046 | | | | | | | |
| | 499 | | .5772 | | | | | | | | | | | | | |
| | 599 | | | | | | | | | .1410 | | | | | .1412 | |
| | .738 | | | .4266 | | | | | | | | | | | | |
| | .750 | | | | | | | | | | | | .1013 | | | |
| | .849 | | | | | .0000 | | | | | | | | | | |
| | .948 | | | | | | .2258 | | | | | | | | | |
| | 1.000 | .0444 | | | | | | | | | | | | | | |
| X/C | | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | | |
| | 248 | | | | | | | | | .0485 | | | | | | |
| | .249 | | | | .0747 | | | | | | | | | | | |
| | .399 | | | | | | | | | | .0398 | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0

WING L.S.

(RUGH15)

MACH (2) = 15.720 HAW/HT(3) = 1.000 RE/FT = .23850 PD = 2417 0 TO = 3531.0 HO = 23.940

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | | | 0681 | | |
| .248 | | | | | | | .0898 | | | | | | | | .0541 |
| .396 | | | | | | | | | | 0000 | | | | | |
| .399 | | | | | | | | | | | | .0787 | | | |
| .412 | | | | .2107 | | | | | | | | | | | |
| .498 | | | | | | | | .1692 | | | | | | | |
| .499 | | .4775 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .1166 | | | | | | 1168 |
| .738 | | | .3529 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | .0838 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .1868 | | | | | | | | | |
| 1 080 | .0368 | | | | | | | | | | | | | | |
| X/C | 4970 | .5160 | 5360 | 5680 | .5950 | 6120 | 7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0401 | | | | | | |
| .249 | | | | | .0618 | | | | | | | | | | |
| .399 | | | | | | | | | | .0329 | | | | | |
| .400 | | | | .0662 | | | | | | | | | | | |
| .500 | .1318 | | | | | | .0940 | | | | | | | | |
| .599 | | | | | | | | | | | .0455 | | | | |
| .601 | | | | | | .0887 | | | | | | | | | |
| .748 | | | | | | | | .0824 | | | | | | | |
| .848 | | .0880 | | | | | | | | | | | | | |
| .950 | | | .1335 | | | | | | | | | | | | |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/1H21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH16) (16 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = 0000 IN.
 LREF = 1290 3000 IN YMRP = 0000 IN.
 BREF = 1290.3000 IN. ZMRP = 0000 IN.
 SCALE = 1000

ALPHA = 30 000 BETA = .000

MACH (1) = 12 030 HAW/HT(1) = .850 RE/FT = .96300 PO = 4246 0 T0 = 3477.0 H0 = 23 460

SECTION (1) WING L.S

DEPENDENT VARIABLE H/HREF

X/C 0000 0380 .0420 .0670 1010 .1460 .1610 1900 .2020 .2110 .3040 .3130 3160 .4400 4510

2Y/B

.247
 248
 396
 .399
 412 2462
 .498 .1985
 .499 5674
 .599 .1432 1285
 .738 3636
 .750 .1566
 849 .0000
 .948 .2264
 1.000 .0223

X/C .4970 5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 9120

2Y/B

248
 249 .0000 .0701
 .399 .0385
 400 .0908
 500 1638 1357
 599 .0533
 601 .1141
 749 .1382
 848 1137
 950 .1504

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S (RUGH16)

MACH (1) = 12.030 HAW/HT (2) = .900 RE/FT = .96300 P0 = 4246.0 T0 = 3477.0 H0 = 23.460

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | .0859 | | | | |
| 248 | | | | | | .1012 | | | | | | | | | .0803 |
| 396 | | | | | | | | | .0000 | | | | | | |
| 399 | | | | | | | | | | | .0808 | | | | |
| 412 | | | | .2301 | | | | | | | | | | | |
| 498 | | | | | | | .1856 | | | | | | | | |
| 499 | | .5303 | | | | | | | | | | | | | |
| 599 | | | | | | | | .1339 | | | | | | .1201 | |
| 738 | | | .3398 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | .1464 | | |
| 849 | | | | | .0000 | | | | | | | | | | |
| 948 | | | | | | .2116 | | | | | | | | | |
| 1 000 | .0208 | | | | | | | | | | | | | | |

X/C .4970 .5160 .5360 .5680 .5950 .6120 7110 7160 .8840 .9060 .9120

2Y/B

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| .248 | | | | | | | | | .0655 | | | | | | |
| .249 | | | | | .0000 | | | | | | | | | | |
| .399 | | | | | | | | | | .0360 | | | | | |
| 400 | | | | .0848 | | | | | | | | | | | |
| 500 | .1531 | | | | | | .1268 | | | | | | | | |
| 599 | | | | | | | | | | | .0498 | | | | |
| 601 | | | | | | .1067 | | | | | | | | | |
| 749 | | | | | | | | .1292 | | | | | | | |
| 848 | | .1063 | | | | | | | | | | | | | |
| 950 | | | .1406 | | | | | | | | | | | | |

MACH (1) = 12.030 HAW/HT (3) = 1.000 RE/FT = .96300 P0 = 4246.0 T0 = 3477.0 H0 = 23.460

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | .0760 | | | | |
| 248 | | | | | | | .0895 | | | | | | | | .0710 |
| 396 | | | | | | | | | .0000 | | | | | | |
| 399 | | | | | | | | | | | .0714 | | | | |
| 412 | | | | .2035 | | | | | | | | | | | |
| 498 | | | | | | | | .1641 | | | | | | | |
| 499 | | .4690 | | | | | | | | | | | | | |
| 599 | | | | | | | | .1184 | | | | | | .1062 | |
| 738 | | | .3005 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | .1295 | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L S

(ROUGH16)

MACH (1) = 12.030 HAW/HT(3) = 1 000

SECTION (1) WING L.S

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| 849 | | | | | 0000 | | | | | | | | | | |
| 948 | | | | | | .1871 | | | | | | | | | |
| 1.000 | .0184 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0579 | | | | | | |
| 249 | | | | | 0000 | | | | | | | | | | |
| 399 | | | | | | | | | | .0319 | | | | | |
| 400 | | | | .0750 | | | | | | | | | | | |
| .500 | .1354 | | | | | | .1121 | | | | | | | | |
| .599 | | | | | | | | | | | .0440 | | | | |
| .601 | | | | | | .0943 | | | | | | | | | |
| .749 | | | | | | | | .1143 | | | | | | | |
| 848 | | .0940 | | | | | | | | | | | | | |
| 950 | | | .1243 | | | | | | | | | | | | |

MACH (2) = 15.720 HAW/HT(1) = .850 RE/FT = .24490 P0 = 2491.0 T0 = 3535.0 H0 = 23 970

SECTION (1) WING L.S

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | .1127 | | | | |
| 248 | | | | | | | .1263 | | | | | | | | .0830 |
| 396 | | | | | | | | | | .0000 | | | | | |
| 399 | | | | | | | | | | | | 1213 | | | |
| 412 | | | | .2158 | | | | | | | | | | | |
| 498 | | | | | | | | .2030 | | | | | | | |
| .499 | | .5846 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .2234 | | | | | .1544 | |
| .738 | | | .4246 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | | | |
| 849 | | | | | .0000 | | | | | | | | .1585 | | |
| 948 | | | | | | .2451 | | | | | | | | | |
| 1 000 | .0332 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| 248 | | | | | | | | | .0618 | | | | | | |
| .249 | | | | | .0861 | | | | | | | | | | |
| .399 | | | | | | | | | | .0387 | | | | | |

OH12/1H21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH17) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN
 SCALE = .1000

ALPHA = 35 000 BETA = .000

MACH (1) = 12 060 HAW/HT(1) = .050 RE/FT = .98280 PO = 4058.0 TO = 3362 0 HO = 22.590

SECTION (1) WING L.S.

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-----|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|
| X/C | 0000 | 0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | 3040 | .3130 | 3160 | .4400 | .4510 |
|-----|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|

2Y/B

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|--|-------|-------|-------|-------|-------|--|-------|-------|
| .247 | | | | | | | | | | | .1429 | | | | .1263 |
| .248 | | | | | | .1605 | | | | .0000 | | | | | |
| .396 | | | | | | | | | | | | .1607 | | | |
| .399 | | | | | | | | | | | | | | | |
| .412 | | | | .3117 | | | | | | | | | | | |
| .498 | | | | | | | | .2482 | | | | | | | |
| .499 | | .6193 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .2612 | | | | | | .1781 |
| .738 | | | .4702 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | | .1877 | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2986 | | | | | | | | | |
| 1.000 | .0158 | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | 8840 | .9060 | 9120 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|

2Y/B

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
| .248 | | | | | | | | | .0885 | | |
| .249 | | | | | .1203 | | | | | | |
| .399 | | | | | | | | | .0633 | | |
| .400 | | | | .1119 | | | | | | | |
| .500 | .1799 | | | | | | .1637 | | | | |
| .599 | | | | | | | | | .0849 | | |
| .601 | | | | | | .1546 | | | | | |
| .749 | | | | | | | | .1504 | | | |
| .848 | | .1668 | | | | | | | | | |
| .950 | | | .1831 | | | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (RUGH17)
 MACH (1) = 12 060 HAW/HT(2) = .900 RE/FT = 98280 PO = 4058.0 TO = 3362 0 HO = 22 590

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| X/C | 0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | .1335 | | | | |
| 248 | | | | | | | .1499 | | | | | | | | .1180 |
| 396 | | | | | | | | | | .0000 | | | | | |
| 399 | | | | | | | | | | | | .1501 | | | |
| 412 | | | | .2912 | | | | | | | | | | | |
| 498 | | | | | | | | .2319 | | | | | | | |
| 499 | | .5786 | | | | | | | | | | | | | |
| 599 | | | | | | | | | .2440 | | | | | | .1664 |
| 738 | | | 4393 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | .1754 | | | |
| 849 | | | | | .0000 | | | | | | | | | | |
| 948 | | | | | | .2790 | | | | | | | | | |
| 000 | .0148 | | | | | | | | | | | | | | |

X/C .4970 5160 .5360 .5680 .5950 .6120 7110 .7160 .8840 .9060 9120

2Y/B

| | | | | | | | | | | | | | | | |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|
| 248 | | | | | | | | | .0827 | | | | | | |
| .249 | | | | | .1124 | | | | | | | | | | |
| .399 | | | | | | | | | | .0592 | | | | | |
| 400 | | | | .1045 | | | | | | | | | | | |
| 500 | 1681 | | | | | | .1529 | | | | | | | | |
| .599 | | | | | | | | | | .0794 | | | | | |
| 601 | | | | | | .1444 | | | | | | | | | |
| 749 | | | | | | | | .1406 | | | | | | | |
| 848 | | .1659 | | | | | | | | | | | | | |
| 950 | | | .1711 | | | | | | | | | | | | |

MACH (1) = 12.060 HAW/HT(3) = 1.000 RE/FT = 98280 PO = 4058 0 TO = 3362.0 HO = 22.590

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| X/C | 0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .1180 | | | | |
| 248 | | | | | | | .1325 | | | | | | | | .1043 |
| 396 | | | | | | | | | | .0000 | | | | | |
| 399 | | | | | | | | | | | | .1327 | | | |
| 412 | | | | .2574 | | | | | | | | | | | |
| .498 | | | | | | | | .2049 | | | | | | | |
| .499 | | .5114 | | | | | | | | | | | | | |
| 599 | | | | | | | | | .2157 | | | | | | .1470 |
| .738 | | | 3883 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | .1550 | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(RUGH17)

MACH (1) = 12.060 HAW/HT(3) = 1.000

SECTION (1) WING L S DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2466 | | | | | | | | | |
| 1.000 | .0131 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0731 | | | | | | |
| .249 | | | | | .0993 | | | | | | | | | | |
| .399 | | | | | | | | | | .0523 | | | | | |
| .400 | | | | .0924 | | | | | | | | | | | |
| .500 | .1486 | | | | | .1352 | | | | | | | | | |
| .599 | | | | | | | | | | | .0701 | | | | |
| .601 | | | | | | .1276 | | | | | | | | | |
| .749 | | | | | | | | .1242 | | | | | | | |
| .848 | | .1378 | | | | | | | | | | | | | |
| .950 | | | .1512 | | | | | | | | | | | | |

MACH (2) = 15.740 HAW/HT(1) = .850 RE/FT = .25440 PO = 2551.0 T0 = 3510.0 H0 = 23.780

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .1283 | | | | |
| .248 | | | | | | .1328 | | | | | | | | | .0901 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .1252 | | | |
| .412 | | | | .2345 | | | | | | | | | | | |
| .498 | | | | | | | | .2262 | | | | | | | |
| .499 | | .4707 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .2325 | | | | | .1784 | |
| .738 | | | .4265 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | .1787 | | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2825 | | | | | | | | | |
| 1.000 | .0245 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0665 | | | | | | |
| .249 | | | | | .0887 | | | | | | | | | | |
| .399 | | | | | | | | | | .0573 | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S

(RUGH17)

MACH (2) = 15.740 HAW/HT(1) = 850

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| X/C | 4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | 9120 |
| 2Y/B | | | | | | | | | | | |
| 400 | | | | 0986 | | | | | | | |
| .500 | .1536 | | | | | | .1316 | | | | |
| 599 | | | | | | | | | | | 0701 |
| 601 | | | | | | .1516 | | | | | |
| 749 | | | | | | | | .1323 | | | |
| 848 | | .1485 | | | | | | | | | |
| 950 | | | .1381 | | | | | | | | |

MACH (2) = 15.740 HAW/HT(2) = .900 RE/FT = .25440 P0 = 2551.0 T0 = 3510.0 H0 = 23.780

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| X/C | .0000 | 0380 | .0420 | .0670 | 1010 | .1460 | 1610 | .1900 | .2020 | 2110 | .3040 | .3130 | 3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | | | | | |
| 248 | | | | | | | | | | | 1199 | | | | |
| .396 | | | | | | | .1242 | | | | | | | | .0842 |
| 399 | | | | | | | | | | .0000 | | | | | |
| 412 | | | | | 2192 | | | | | | | .1170 | | | |
| 498 | | | | | | | | .2115 | | | | | | | |
| 499 | | .4400 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .2173 | | | | | | .1667 |
| .738 | | | .3987 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | 1671 | | |
| 849 | | | | | 0000 | | | | | | | | | | |
| 948 | | | | | | .2641 | | | | | | | | | |
| 1.000 | .0229 | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

| | | | | | | | | | | | |
|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2Y/B | | | | | | | | | | | |
| 248 | | | | | | | | | .0622 | | |
| 249 | | | | | .0829 | | | | | | |
| 399 | | | | | | | | | | .0535 | |
| 400 | | | | .0922 | | | | | | | |
| .500 | .1436 | | | | | | .1230 | | | | |
| .599 | | | | | | | | | | | .0656 |
| .601 | | | | | | | | | | | |
| .749 | | | | | | .1417 | | | | | |
| .848 | | 1388 | | | | | | .1236 | | | |
| .950 | | | .1291 | | | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (RUGH17)

MACH (2) = 15.740 HAW/HT (3) = 1.000 RE/FT = .25440 PO = 2551.0 TO = 3510.0 H0 = 23.780

SECTION (1) WING L.S. DEPENDENT VARIABLE H/HREF

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | 2110 | 3040 | .3130 | 3160 | .4400 | .4510 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .1061 | | | | |
| .248 | | | | | | | .1099 | | | | | | | | .0745 |
| .396 | | | | | | | | | | 0000 | | | | | |
| .399 | | | | | | | | | | | | .1035 | | | |
| .412 | | | | .1939 | | | | | | | | | | | |
| .498 | | | | | | | | .1871 | | | | | | | |
| .499 | | .3693 | | | | | | | | | | | | | |
| .599 | | | | | | | | | 1923 | | | | | | .1475 |
| .738 | | | .3528 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | 1478 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | .2337 | | | | | | | | | |
| 1.000 | .0203 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | 9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| .248 | | | | | | | | | .0550 | | | | | | |
| .249 | | | | | .0734 | | | | | | | | | | |
| .399 | | | | | | | | | | .0474 | | | | | |
| .400 | | | | .0816 | | | | | | | | | | | |
| .500 | .1271 | | | | | | .1089 | | | | | | | | |
| .599 | | | | | | | | | | .0580 | | | | | |
| .601 | | | | | | .1254 | | | | | | | | | |
| .749 | | | | | | | | .1094 | | | | | | | |
| .848 | | .1228 | | | | | | | | | | | | | |
| .950 | | | .1142 | | | | | | | | | | | | |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 T-NP VERTICAL

(RUGV04) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = .0000 IN
 LREF = 1290.3000 IN. YMRP = .0000 IN
 BREF = 1290.3000 IN. ZMRP = 0000 IN.
 SCALE = .1000

ALPHA = 000 BETA = .000

MACH (1) = 18.360 HAW/HT (1) = 850 RE/FT = .12410-01 P0 = 360.50 T0 = 4449.0 H0 = 31.530

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV^ .7470 .8540 .9640 1.0000

GAGENO

39 000 .0956

40 000 .0000

41 000 .3277

42 000 .0170

MACH (1) = 18.360 HAW/HT (2) = .900 RE/FT = .12410-01 P0 = 360.50 T0 = 4449.0 H0 = 31.530

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39 000 .0896

40 000 .0000

41 000 .3072

42 000 .0160

MACH (1) = 18.360 HAW/HT (3) = 1.000 RE/FT = .12410-01 P0 = 360.50 T0 = 4449.0 H0 = 31.530

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39 000 .0797

40 000 .0000

41 000 .2730

42 000 .0142

OH12/IH21 (CAL HST 173-100) 37 0 T VERTICAL

(RUGV05) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = .000 BETA = .000

MACH (1) = 6.999 HAW/HT(1) = .850 RE/FT = .12050 P0 = 357.80 T0 = 5538.0 H0 = 41.770

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 9640 1.0000

GAGENO
 39.000 .6285
 40.000 .5134
 41.000 .8013
 42.000 .0442

MACH (1) = 6.999 HAW/HT(2) = .900 RE/FT = .12050 P0 = 357.80 T0 = 5538.0 H0 = 41.770

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 9640 1.0000

GAGENO
 39.000 .5903
 40.000 .4822
 41.000 .7527
 42.000 .0415

MACH (1) = 6.999 HAW/HT(3) = 1.000 RE/FT = .12050 P0 = 357.80 T0 = 5538.0 H0 = 41.770

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 9640 1.0000

GAGENO
 39.000 .5264
 40.000 .4300
 41.000 .6712
 42.000 0.370

OH12/IH21 (CAL HST 173-100) 37 0 T VERTICAL

(RUGV05)

MACH (2) = 7 616 HAW/HT(1) = .850 RE/FT = 1.2040 P0 = 519 30 T0 = 2007.0 H0 = 12.750

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV 7470 .8540 .9640 1 0000

| | | | | |
|--------|------|------|--------|-------|
| GAGENO | | | | |
| 39.000 | 9257 | | | |
| 40.000 | | 6926 | | |
| 41 000 | | | 1 2954 | |
| 42 000 | | | | .0372 |

MACH (2) = 7 616 HAW/HT(2) = .900 RE/FT = 1.2040 P0 = 519 30 T0 = 2007 0 H0 = 12.750

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

| | | | | |
|--------|-------|-------|--------|-------|
| GAGENO | | | | |
| 39 000 | .8546 | | | |
| 40 000 | | .6393 | | |
| 41 000 | | | 1 1958 | |
| 42 000 | | | | .0343 |

MACH (2) = 7 616 HAW/HT(3) = 1.000 RE/FT = 1 2040 P0 = 519 30 T0 = 2007 0 H0 = 12 750

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

| | | | | |
|--------|------|------|--------|-------|
| GAGENO | | | | |
| 39 000 | 7407 | | | |
| 40 000 | | 5541 | | |
| 41 000 | | | 1.0365 | |
| 42 000 | | | | .0298 |

MACH (3) = 18 330 HAW/HT(1) = .850 RE/FT = 12100-01 P0 = 346.80 T0 = 4436.0 H0 = 31.410

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV 7470 8540 .9640 1 0000

| | | | | |
|--------|------|------|-------|-------|
| GAGENO | | | | |
| 39 000 | 0878 | | | |
| 40 000 | | 0000 | | |
| 41 000 | | | .2916 | |
| 42 000 | | | | .0177 |

OH12/IH21 (CAL HST 173-100) 37 0 T VERTICAL

(RU0V05)

MACH (3) = 18.330 HAW/HT(2) = .900 RE/FT = .12100-01 P0 = 346.80 T0 = 4436.0 H0 = 31.410

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0823

40.000 .0000

41.000 .2733

42.000 .0166

MACH (3) = 18.330 HAW/HT(3) = 1.000 RE/FT = 12100-01 P0 = 346.80 T0 = 4436.0 H0 = 31.410

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0732

40.000 .0000

41.000 .2429

42.000 .0148

MACH (4) = 19.200 HAW/HT(1) = .850 RE/FT = .43200-01 P0 = 1602.0 T0 = 4694.0 H0 = 33.500

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .1869

40.000 .0000

41.000 .4234

42.000 .0233

MACH (4) = 19.200 HAW/HT(2) = .900 RE/FT = .43200-01 P0 = 1602.0 T0 = 4694.0 H0 = 33.500

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .1753

40.000 .0000

41.000 .3971

42.000 .0219

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 184

OH12/IH21 (CAL HST 173-100) 37 0 T VERTICAL

(RUGV05)

MACH (4) = 19 200 HAW/HT(3) = 1.000 RE/FT = .43200-01 P0 = 1602 0 T0 = 4694 0 H0 = 33 500

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 9640 1.0000

GAGENO

39 000 .1559

40.000 .0000

41 000 .3532

42.000 0.195

OH12/IH21 (CAL HST 173-100) 37 0 T VERTICAL

(RUGV06) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 5.000 BETA = .000

MACH (1) = 19.220 HAW/HT (1) = .850 RE/FT = .43430-01 P0 = 1614.0 T0 = 4695.0 H0 = 33.500

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
 39.000 .3626
 40.000 .0000
 41.000 1.2342
 42.000 .0448

MACH (1) = 19.220 HAW/HT (2) = .900 RE/FT = .43430-01 P0 = 1614.0 T0 = 4695.0 H0 = 33.500

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
 39.000 .3401
 40.000 .0000
 41.000 1.1576
 42.000 .0420

MACH (1) = 19.220 HAW/HT (3) = 1.000 RE/FT = .43430-01 P0 = 1614.0 T0 = 4695.0 H0 = 33.500

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
 39.000 .3025
 40.000 .0000
 41.000 1.0298
 42.000 .0374

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV07) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = 0000 IN. ALPHA = .000 BETA = .000
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290 3000 IN. ZMRP = 0000 IN.
 SCALE = .1000

MACH (1) = 6.997 HAW/HT(1) = .850 RE/FT = 13020 PO = 384.80 T0 = 5526.0 H0 = 41.700

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

| | | | | |
|--------|-------|-------|-------|--------|
| Z/BV | .7470 | .8540 | .9640 | 1.0000 |
| GAGENO | | | | |
| 39 000 | .3862 | | | |
| 40 000 | | .5657 | | |
| 41 000 | | | .8377 | |
| 42 000 | | | | .0429 |

MACH (1) = 6.997 HAW/HT(2) = .900 RE/FT = 13020 PO = 384.80 T0 = 5526.0 H0 = 41.700

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

| | | | | |
|--------|-------|-------|-------|--------|
| Z/BV | .7470 | .8540 | .9640 | 1.0000 |
| GAGENO | | | | |
| 39 000 | .3628 | | | |
| 40 000 | | .5314 | | |
| 41 000 | | | .7868 | |
| 42 000 | | | | .0403 |

MACH (1) = 6.997 HAW/HT(3) = 1.000 RE/FT = 13020 PO = 384.80 T0 = 5526.0 H0 = 41.700

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

| | | | | |
|--------|-------|-------|-------|--------|
| Z/BV | .7470 | .8540 | .9640 | 1.0000 |
| GAGENO | | | | |
| 39 000 | .3235 | | | |
| 40 000 | | .4739 | | |
| 41 000 | | | .7017 | |
| 42 000 | | | | .0360 |

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL (RUGV07)

MACH (2) = 7.614 HAW/HT(1) = .050 RE/FT = 1.2320 P0 = 534.30 T0 = 2015.0 H0 = 12.800

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39.000 9912
40.000 8209
41.000 1.1756
42.000 .0515

MACH (2) = 7.614 HAW/HT(2) = 900 RE/FT = 1.2320 P0 = 534.30 T0 = 2015.0 H0 = 12.800

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39.000 9153
40.000 7580
41.000 1.0855
42.000 .0476

MACH (2) = 7.614 HAW/HT(3) = 1.000 RE/FT = 1.2320 P0 = 534.30 T0 = 2015.0 H0 = 12.800

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39.000 .7937
40.000 .6573
41.000 .9413
42.000 .0413

MACH (3) = 16.060 HAW/HT(1) = .050 RE/FT = .44180-01 P0 = 560.00 T0 = 3731.0 H0 = 25.530

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39.000 .3733
40.000 .0000
41.000 .9154
42.000 .0507

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0

VERTICAL

(RUGV07)

MACH (3) = 16.060 HAW/HT(2) = .900 RE/FT = 44180-01 P0 = 560 00 TO = 3731.0 HO = 25 530

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 .8540 .9640 1.0000

GAGENO

39 000 .3492

40 000 .0000

41 000 .8564

42 000 0475

MACH (3) = 16.060 HAW/HT(3) = 1.000 RE/FT = .44180-01 P0 = 560.00 TO = 3731.0 HO = 25.530

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 .8540 .9640 1.0000

GAGENO

39 000 .3093

40 000 .0000

41 000 7585

42 000 0420

MACH (4) = 18.310 HAW/HT(1) = .850 RE/FT = .12290-01 P0 = 348.20 TO = 4417.0 HO = 31.290

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39 000 .0834

40 000 .2271

41 000 4571

42 000 .0149

MACH (4) = 18.310 HAW/HT(2) = .900 RE/FT = .12290-01 P0 = 348.20 TO = 4417.0 HO = 31.290

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39 000 .0782

40 000 2129

41 000 .4285

42 000 .0140

OH12/IH21 (CAL HST 173-100) 37 0

VERTICAL

(RUGV07)

MACH (4) = 18.310 HAW/HT(3) = 1.000 RE/FT = .12290-01 P0 = 348.20 T0 = 4417.0 H0 = 31.290

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0695

40.000 .1892

41.000 .3809

42.000 .0124

MACH (5) = 19.190 HAW/HT(1) = .850 RE/FT = .44400-01 P0 = 1603.0 T0 = 4644.0 H0 = 33.120

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .1858

40.000 .3085

41.000 .5797

42.000 .0287

MACH (5) = 19.190 HAW/HT(2) = .800 RE/FT = .44400-01 P0 = 1603.0 T0 = 4644.0 H0 = 33.120

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .1742

40.000 .2893

41.000 .5437

42.000 .0270

MACH (5) = 19.190 HAW/HT(3) = 1.000 RE/FT = .44400-01 P0 = 1603.0 T0 = 4644.0 H0 = 33.120

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .1550

40.000 .2573

41.000 .4836

42.000 .0240

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV08) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT XMRP = 0000 IN
 LREF = 1290.3000 IN. YMRP = 0000 IN
 BREF = 1290.3000 IN. ZMRP = 0000 IN.
 SCALE = .1000

ALPHA = 5 000 BETA = 000

MACH (1) = 19.180 HAW/HT(1) = 850 RE/FT = .45790-01 PO = 1649 0 TO = 4641.0 HO = 33.120

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

| | | | | |
|--------|-------|------|------|--------|
| Z/BV | 7470 | 8540 | 9640 | 1.0000 |
| GAGENO | | | | |
| 39 000 | .3017 | | | |
| 40 000 | | 6912 | | |
| 41 000 | | | 6405 | |
| 42 000 | | | | .0377 |

MACH (1) = 19.180 HAW/HT(2) = .900 RE/FT = .45790-01 PO = 1649 0 TO = 4641.0 HO = 33.120

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

| | | | | |
|--------|-------|-------|------|--------|
| Z/BV | 7470 | 8540 | 9640 | 1.0000 |
| GAGENO | | | | |
| 39 000 | .2830 | | | |
| 40 000 | | .6483 | | |
| 41 000 | | | 6007 | |
| 42 000 | | | | .0354 |

MACH (1) = 19.180 HAW/HT(3) = 1.000 RE/FT = .45790-01 PO = 1649.0 TO = 4641.0 HO = 33.120

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

| | | | | |
|--------|-------|-------|-------|--------|
| Z/BV | .7470 | .8540 | .9640 | 1.0000 |
| GAGENO | | | | |
| 39 000 | .2517 | | | |
| 40 000 | | .5767 | | |
| 41 000 | | | .5344 | |
| 42.000 | | | | .0315 |

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV09) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 10.000 BETA = .000

MACH (1) = 18.360 HAW/HT(1) = .850 RE/FT = .12480-01 PO = 347.10 TO = 4373.0 H0 = 30.890

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0123

40.000 .0906

41.000 .1060

42.000 .0035

MACH (1) = 18.360 HAW/HT(2) = .900 RE/FT = .12480-01 PO = 347.10 TO = 4373.0 H0 = 30.890

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0115

40.000 .0849

41.000 .0994

42.000 .0033

MACH (1) = 18.360 HAW/HT(3) = 1.000 RE/FT = .12480-01 PO = 347.10 TO = 4373.0 H0 = 30.890

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0102

40.000 .0755

41.000 .0883

42.000 .0029

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV10) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT XMRP = .0000 IN.
 LREF = 1290 3000 IN. YMRP = 0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 25.000 BETA = 000

MACH (1) = 6.973 HAW/HT(1) = 850 RE/FT = 12370 P0 = 373.20 T0 = 5597.0 H0 = 42.320

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39 000 .0940

40 000 1184

41 000 .1488

42 000 .0143

MACH (1) = 6.973 HAW/HT(2) = .900 RE/FT = 12370 P0 = 373.20 T0 = 5597.0 H0 = 42.320

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39 000 .0883

40 000 1112

41 000 .1398

42.000 .0134

MACH (1) = 6.973 HAW/HT(3) = 1.000 RE/FT = 12370 P0 = 373.20 T0 = 5597.0 H0 = 42.320

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 0787

40 000 0992

41 000 .1247

42 000 .0120

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV10)

MACH (2) = 7.921 HAW/HT(1) = .850 RE/FT = 7.3310 P0 = 2181.0 T0 = 1560.0 H0 = 9.9040

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .2593

40.000 .2216

41.000 .3347

42.000 .0242

MACH (2) = 7.921 HAW/HT(2) = .900 RE/FT = 7.3310 P0 = 2181.0 T0 = 1560.0 H0 = 9.9040

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .2369

40.000 .2024

41.000 3058

42.000 .0221

MACH (2) = 7.921 HAW/HT(3) = 1.000 RE/FT = 7.3310 P0 = 2181.0 T0 = 1560.0 H0 = 9.9040

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .2020

40.000 1726

41.000 .2608

42.000 .0188

MACH (3) = 8.009 HAW/HT(1) = .850 RE/FT = .99780 P0 = 900.90 T0 = 2772.0 H0 = 18.130

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .1006

40.000 .1899

41.000 .3591

42.000 .0164

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV10)

MACH (3) = 8.009 HAW/HT(2) = 900 RE/FT = 99780 P0 = 900.90 T0 = 2772.0 H0 = 18.130

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0937

40.000 .1861

41.000 .3343

42.000 .0152

MACH (3) = 8.009 HAW/HT(3) = 1.000 RE/FT = .99780 P0 = 900.90 T0 = 2772.0 H0 = 18.130

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0823

40.000 .1635

41.000 .2938

42.000 .0134

MACH (4) = 10.450 HAW/HT(1) = .850 RE/FT = .91170 P0 = 2714.0 T0 = 3466.0 H0 = 23.370

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .1461

40.000 .1611

41.000 .1716

42.000 .0158

MACH (4) = 10.450 HAW/HT(2) = .900 RE/FT = .91170 P0 = 2714.0 T0 = 3466.0 H0 = 23.370

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .1385

40.000 .1505

41.000 .1603

42.000 .0148

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL (RUGV10)

MACH (4) = 10.450 HAW/HT(3) = 1.000 RE/FT = 91170 PO = 2714.0 TO = 3466.0 HO = 23 370

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39 000 1207
40 000 .1331
41.000 .1418
42 000 .0130

MACH (5) = 12 220 HAW/HT(1) = .850 RE/FT = 26170 PO = 1591.0 TO = 3838 0 HO = 26.430

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39 000 .0615
40 000 .0698
41 000 .1012
42 000 .0106

MACH (5) = 12 220 HAW/HT(2) = .900 RE/FT = .26170 PO = 1591.0 TO = 3838.0 HO = 26.430

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39 000 .0576
40.000 .0653
41 000 .0947
42 000 .0099

MACH (5) = 12 220 HAW/HT(3) = 1.000 RE/FT = .26170 PO = 1591.0 TO = 3838.0 HO = 26.430

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39 000 .0510
40 000 .0579
41 000 .0840
42 000 .0088

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV10)

MACH (6) = 16.020 HAW/HT(1) = .850 RE/FT = .44700-01 P0 = 565.60 T0 = 3735.0 H0 = 25.590

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0150

40.000 .0300

41.000 .0380

42.000 .0029

MACH (6) = 16.020 HAW/HT(2) = .900 RE/FT = .44700-01 P0 = 565.60 T0 = 3735.0 H0 = 25.590

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0140

40.000 .0280

41.000 .0355

42.000 .0027

MACH (6) = 16.020 HAW/HT(3) = 1.000 RE/FT = .44700-01 P0 = 565.60 T0 = 3735.0 H0 = 25.590

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0124

40.000 .0248

41.000 .0315

42.000 .0024

MACH (7) = 19.180 HAW/HT(1) = .850 RE/FT = .44510-01 P0 = 1618.0 T0 = 4658.0 H0 = 33.250

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0062

40.000 .0045

41.000 .0107

42.000 .0006

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 197

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV10)

MACH (7) = 19.180 HAW/HT (2) = 900 RE/FT = .44510-01 P0 = 1618.0 T0 = 4658.0 H0 = 33 250

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0058

40.000 .0042

41.000 .0100

42.000 .0006

MACH (7) = 19.180 HAW/HT (3) = 1.000 RE/FT = .44510-01 P0 = 1618.0 T0 = 4658.0 H0 = 33 250

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0051

40.000 .0037

41.000 .0089

42.000 .0005

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV11) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN YMRP = .0000 IN.
 BREF = 1290 3000 IN ZMRP = 0000 IN.
 SCALE = 1000

ALPHA = 30.000 BETA = .000

MACH (1) = 7.011 HAW/HT(1) = 850 RE/FT = 13080 P0 = 370 80 TO = 5426.0 H0 = 40.760

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 .8540 .9640 1.0000

GAGENO

39 000 0000

40 000 0755

41 000 .0826

42 000 .0104

MACH (1) = 7.011 HAW/HT(2) = .900 RE/FT = 13080 P0 = 370 80 TO = 5426.0 H0 = 40.760

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 .8540 .9640 1.0000

GAGENO

39 000 .0000

40.000 0709

41.000 0776

42 000 0097

MACH (1) = 7.011 HAW/HT(3) = 1 000 RE/FT = .13080 P0 = 370.80 TO = 5426.0 H0 = 40.760

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39 000 0000

40 000 .0632

41.000 .0692

42 000 0087

OH12/IH21 (CAL HST 173-100) 37 0

VERTICAL

(RUGY11)

MACH (2) = 7.890 HAW/HT (1) = .850 RE/FT = .75740 P0 = 782.80 T0 = 3018.0 H0 = 19.990

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0632

40.000 .0601

41.000 .0600

42.000 .0054

MACH (2) = 7.890 HAW/HT (2) = .900 RE/FT = .75740 P0 = 782.80 T0 = 3018.0 H0 = 19.990

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0589

40.000 .0561

41.000 .0560

42.000 .0051

MACH (2) = 7.890 HAW/HT (3) = 1.000 RE/FT = .75740 P0 = 782.80 T0 = 3018.0 H0 = 19.990

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0519

40.000 .0494

41.000 .0493

42.000 .0045

MACH (3) = 7.922 HAW/HT (1) = .850 RE/FT = 7.5500 P0 = 2310.0 T0 = 1591.0 H0 = 18.090

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0875

40.000 .1573

41.000 .2502

42.000 .0259

OH12/1H21 (CAL HST 173-100) 37 0 VERTICAL (RUGV11)

MACH (3) = 7.922 HAW/HT(2) = 900 RE/FT = 7.5500 PO = 2310.0 TO = 1591.0 HO = 10.090

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

| | | | | |
|--------|-------|-------|------|------|
| GAGENO | | | | |
| 39 000 | .0830 | | | |
| 40.000 | | .1439 | | |
| 41 000 | | | 2288 | |
| 42 000 | | | | 0237 |

MACH (3) = 7.922 HAW/HT(3) = 1.000 RE/FT = 7.5500 PO = 2310.0 TO = 1591.0 HO = 10.090

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

| | | | | |
|--------|-------|-------|-------|-------|
| GAGENO | | | | |
| 39 000 | .0684 | | | |
| 40.000 | | .1229 | | |
| 41 000 | | | .1955 | |
| 42 000 | | | | .0202 |

MACH (4) = 10.520 HAW/HT(1) = .850 RE/FT = 1.0520 PO = 2686.0 TO = 3202.0 HO = 21.360

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

| | | | | |
|--------|-------|-------|-------|-------|
| GAGENO | | | | |
| 39 000 | .0000 | | | |
| 40 000 | | .0530 | | |
| 41 000 | | | .0754 | |
| 42.000 | | | | .0070 |

MACH (4) = 10.520 HAW/HT(2) = 900 RE/FT = 1.0520 PO = 2686.0 TO = 3202.0 HO = 21.360

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

| | | | | |
|--------|-------|-------|-------|-------|
| GAGENO | | | | |
| 39 000 | .0000 | | | |
| 40.000 | | .0494 | | |
| 41 000 | | | .0704 | |
| 42 000 | | | | .0065 |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 201

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL (RUGV11)

MACH (4) = 10.520 HAW/HT(3) = 1.000 RE/FT = 1.0520 PO = 2686.0 TO = 3202.0 HO = 21.360

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39.000 0000
40.000 0436
41.000 .0622
42.000 .0058

MACH (5) = 12.200 HAW/HT(1) = .850 RE/FT = .25390 PO = 1613.0 TO = 3922.0 HO = 27.090

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39.000 0402
40.000 .0493
41.000 0560
42.000 .0083

MACH (5) = 12.200 HAW/HT(2) = .900 RE/FT = .25390 PO = 1613.0 TO = 3922.0 HO = 27.090

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39.000 .0377
40.000 .0462
41.000 .0524
42.000 .0078

MACH (5) = 12.200 HAW/HT(3) = 1.000 RE/FT = .25390 PO = 1613.0 TO = 3922.0 HO = 27.090

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39.000 .0334
40.000 .0409
41.000 .0465
42.000 .0069

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/1H21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV11)

MACH (6) = 16.070 HAW/HT(1) = .850 RE/FT = .45820-01 P0 = 560.60 T0 = 3667.0 H0 = 25.040

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 8540 .9640 1.0000

GAGENO

39 000 .0132

40 000 .0199

41 000 .0215

42 000 .0014

MACH (6) = 16.070 HAW/HT(2) = .900 RE/FT = .45820-01 P0 = 560.60 T0 = 3667.0 H0 = 25.040

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 8540 9640 1.0000

GAGENO

39 000 .0124

40 000 .0186

41 000 .0202

42 000 .0013

MACH (6) = 16.070 HAW/HT(3) = 1.000 RE/FT = .45820-01 P0 = 560.60 T0 = 3667.0 H0 = 25.040

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 8540 9640 1.0000

GAGENO

39 000 .0110

40 000 .0165

41 000 .0178

42 000 .0012

MACH (7) = 19.150 HAW/HT(1) = .850 RE/FT = .43340-01 P0 = 1643.0 T0 = 4746.0 H0 = 33.960

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39 000 .0081

40 000 .0115

41 000 .0153

42 000 .0012

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV11)

MACH (7) = 19.150 HAW/HT (2) = .900 RE/FT = .43340-01 P0 = 1643.0 T0 = 4746.0 H0 = 33.960

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 .8540 .9640 1.0000

GAGENO

39.000 0076

40.000 0108

41.000 0144

42.000 .0012

MACH (7) = 19.150 HAW/HT (3) = 1.000 RE/FT = .43340-01 P0 = 1643.0 T0 = 4746.0 H0 = 33.960

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 .8540 .9640 1.0000

GAGENO

39.000 0068

40.000 0096

41.000 0128

42.000 0010

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV12) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = 0000 IN.
 LREF = 1290 3000 IN YMRP = .0000 IN.
 BREF = 1290.3000 IN ZMRP = 0000 IN
 SCALE = .1000

ALPHA = 35 000 BETA = .000

MACH (1) = 6 993 HAW/HT(1) = 850 RE/FT = 12520 P0 = 363 90 T0 = 5492 0 H0 = 41 400

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 8540 .9640 1.0000

GAGENO

39 000 0545

40 000 0624

41 000 .0620

42 000 0083

MACH (1) = 6 993 HAW/HT(2) = .900 RE/FT = .12520 P0 = 363 90 T0 = 5492 0 H0 = 41 400

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 8540 .9640 1.0000

GAGENO

39 000 0512

40 000 0586

41 000 .0582

42 000 .0078

MACH (1) = 6.993 HAW/HT(3) = 1.000 RE/FT = .12520 P0 = 363 90 T0 = 5492 0 H0 = 41 400

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 8540 .9640 1 0000

GAGENO

39 000 .0456

40 000 .0523

41 000 .0519

42.000 0069

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL (RUGV12)
 MACH (2) = 7.922 HAW/HT (1) = .850 RE/FT = 7.5700 PO = 2199.0 TO = 1538.0 HO = 9.7660

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
 39 000 .0995
 40 000 .1431
 41 000 .1637
 42.000 .0261

MACH (2) = 7.922 HAW/HT (2) = .900 RE/FT = 7.5700 PO = 2199.0 TO = 1538.0 HO = 9.7660

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
 39.000 .0909
 40.000 .1307
 41.000 .1495
 42.000 .0238

MACH (2) = 7.922 HAW/HT (3) = 1.000 RE/FT = 7.5700 PO = 2199.0 TO = 1538.0 HO = 9.7660

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
 39 000 .0774
 40 000 .1114
 41 000 .1274
 42 000 .0203

MACH (3) = 8.058 HAW/HT (1) = .850 RE/FT = 1.1090 PO = 894.60 TO = 2594.0 HO = 16.850

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
 39 000 .0919
 40.000 .0972
 41.000 .0809
 42.000 .0054

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0

VERTICAL

(RUGV12)

MACH (3) = 8.058 HAW/HT(2) = .900 RE/FT = 1.1090 PO = 894 80 TO = 2594 0 HO = 16.850

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 8540 .9640 1.0000

GAGENO

39.000 .0854

40.000 .0903

41.000 .0752

42.000 .0050

MACH (3) = 8.058 HAW/HT(3) = 1.000 RE/FT = 1.1090 PO = 894 80 TO = 2594 0 HO = 16.850

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 8540 .9640 1.0000

GAGENO

39.000 .0749

40.000 .0792

41.000 .0660

42.000 .0044

MACH (4) = 10.730 HAW/HT(1) = .850 RE/FT = 1.9260 PO = 3618 0 TO = 2727.0 HO = 17.750

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 8540 .9640 1.0000

GAGENO

39.000 .0935

40.000 .0591

41.000 .0596

42.000 .0077

MACH (4) = 10.730 HAW/HT(2) = .900 RE/FT = 1.9260 PO = 3618.0 TO = 2727.0 HO = 17.750

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0870

40.000 .0550

41.000 .0555

42.000 .0071

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV12)

MACH (4) = 10.730 HAW/HT(3) = 1.000 RE/FT = 1.9260 P0 = 3618.0 T0 = 2727.0 H0 = 17.750

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39.000 .0764
40.000 .0483
41.000 .0487
42.000 .0063

MACH (5) = 12.230 HAW/HT(1) = .950 RE/FT = .26590 P0 = 1621.0 T0 = 3839.0 H0 = 26.440

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39.000 .0345
40.000 .0457
41.000 .0475
42.000 .0070

MACH (5) = 12.230 HAW/HT(2) = .900 RE/FT = .26590 P0 = 1621.0 T0 = 3839.0 H0 = 26.440

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39.000 .0323
40.000 .0428
41.000 .0444
42.000 .0066

MACH (5) = 12.230 HAW/HT(3) = 1.000 RE/FT = .26590 P0 = 1621.0 T0 = 3839.0 H0 = 26.440

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
39.000 .0286
40.000 .0379
41.000 .0394
42.000 .0058

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV12)

MACH (6) = 15.960 HAW/HT(1) = .850 RE/FT = 43170-01 P0 = 536.10 T0 = 3720.0 H0 = 25.490

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 .8540 9640 1.0000

GAGENO

39.000 .0107

40 000 .0146

41 000 .0181

42 000 .0014

MACH (6) = 15.960 HAW/HT(2) = 900 RE/FT = 43170-01 P0 = 536.10 T0 = 3720.0 H0 = 25.490

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 .8540 .9640 1.0000

GAGENO

39 000 .0100

40 000 .0136

41 000 .0170

42 000 .0013

MACH (6) = 15.960 HAW/HT(3) = 1.000 RE/FT = 43170-01 P0 = 536.10 T0 = 3720.0 H0 = 25.490

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39 000 .0088

40 000 .0121

41 000 .0150

42.000 .0012

MACH (7) = 19.160 HAW/HT(1) = .850 RE/FT = 44730-01 P0 = 1704.0 T0 = 4753.0 H0 = 34.030

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 .8540 .9640 1.0000

GAGENO

39.000 .0096

40.000 .0126

41.000 .0147

42 000 .0007

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 209

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL (RUGV12)

MACH (7) = 19.160 HAW/HT (2) = .900 RE/FT = 44730-01 PO = 1704.0 TO = 4753.0 HO = 34.030

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0090

40.000 .0118

41.000 .0138

42.000 .0007

MACH (7) = 19.160 HAW/HT (3) = 1.000 RE/FT = 44730-01 PO = 1704.0 TO = 4753.0 HO = 34.030

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0080

40.000 .0105

41.000 .0123

42.000 .0006

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV13) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT XMRP = 0000 IN.
 LREF = 1290 3000 IN YMRP = 0000 IN.
 BREF = 1290 3000 IN ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 40.000 BETA = .000

MACH (1) = 7.921 HAW/HT(1) = .850 RE/FT = 7.4790 P0 = 2300.0 T0 = 1596.0 H0 = 10.120

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 1055
 40.000 .1500
 41.000 .1568
 42.000 .0280

MACH (1) = 7.921 HAW/HT(2) = .900 RE/FT = 7.4790 P0 = 2300.0 T0 = 1596.0 H0 = 10.120

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0965
 40.000 .1372
 41.000 .1435
 42.000 .0256

MACH (1) = 7.921 HAW/HT(3) = 1.000 RE/FT = 7.4790 P0 = 2300.0 T0 = 1596.0 H0 = 10.120

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0824
 40.000 .1172
 41.000 .1226
 42.000 .0219

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV13)

MACH (2) = 8.024 HAW/HT(1) = .850 RE/FT = 1 0600 P0 = 921.50 T0 = 2712.0 H0 = 17.700

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39 000 .0801

40 000 1155

41 000 .1307

42.000 .0101

MACH (2) = 8.024 HAW/HT(2) = .900 RE/FT = 1 0600 P0 = 921.50 T0 = 2712.0 H0 = 17.700

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39 000 .0746

40 000 1075

41 000 .1216

42 000 .0094

MACH (2) = 8.024 HAW/HT(3) = 1.000 RE/FT = 1.0600 P0 = 921.50 T0 = 2712.0 H0 = 17.700

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39 000 .0655

40 000 .0944

41 000 1068

42.000 .0083

OH12/IH21 (CAL HST 173-100) 37 0 T VERTICAL

(RUGV14) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT XMRP = .0000 IN
 LREF = 1290.3000 IN YMRP = .0000 IN
 BREF = 1290.3000 IN ZMRP = 0000 IN.
 SCALE = .1000

ALPHA = 000 BETA = .000

MACH (1) = 16.050 HAW/HT(1) = 050 RE/FT = 46340-01 P0 = 577.10 T0 = 3699.0 H0 = 25.320

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 .8540 9640 1.0000

GAGENO
 39 000 .4158
 40 000 5273
 41 000 7751
 42 000 .0522

MACH (1) = 16.050 HAW/HT(2) = .900 RE/FT = 46340-01 P0 = 577.10 T0 = 3699.0 H0 = 25.320

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 9640 1.0000

GAGENO
 39 000 .3890
 40 000 .4933
 41 000 7252
 42 000 .0488

MACH (1) = 16.050 HAW/HT(3) = 1.000 RE/FT = .46340-01 P0 = 577.10 T0 = 3699.0 H0 = 25.320

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 8540 9640 1.0000

GAGENO
 39 000 .3446
 40.000 4370
 41.000 .6423
 42 000 .0433

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV15) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 25.000 BETA = .000

MACH (1) = 12.030 HAW/HT(1) = .850 RE/FT = .95540 P0 = 4211.0 T0 = 3477.0 H0 = 23.460

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 8540 9640 1.0000

GAGENO
 39.000 1242
 40.000 .1392
 41.000 .1581
 42.000 .0121

MACH (1) = 12.030 HAW/HT(2) = .900 RE/FT = .95540 P0 = 4211.0 T0 = 3477.0 H0 = 23.460

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
 39.000 .1161
 40.000 .1301
 41.000 .1478
 42.000 .0113

MACH (1) = 12.030 HAW/HT(3) = 1.000 RE/FT = .95540 P0 = 4211.0 T0 = 3477.0 H0 = 23.460

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 8540 .9640 1.0000

GAGENO
 39.000 .1027
 40.000 1150
 41.000 1307
 42.000 .0100

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV15)

MACH (2) = 15.720 HAW/HT(1) = .850 RE/FT = .23850 P0 = 2417.0 T0 = 3531.0 H0 = 23.940

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0377

40.000 .0500

41.000 .0627

42.000 .0075

MACH (2) = 15.720 HAW/HT(2) = .900 RE/FT = .23850 P0 = 2417.0 T0 = 3531.0 H0 = 23.940

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0352

40.000 .0467

41.000 .0586

42.000 .0070

MACH (2) = 15.720 HAW/HT(3) = 1.000 RE/FT = .23850 P0 = 2417.0 T0 = 3531.0 H0 = 23.940

SECTION (1) VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0312

40.000 .0413

41.000 .0519

42.000 .0062

DATE 18 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 215

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV16) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT. XHRP = .0000 IN.
LREF = 1290.3000 IN. YHRP = 0000 IN.
BREF = 1290.3000 IN. ZHRP = .0000 IN.
SCALE = .1000

ALPHA = 30.000 BETA = 000

MACH (1) = 12.030 HAW/HT(1) = .850 RE/FT = .96300 PD = 4246.0 TO = 3477.0 HO = 23.460

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 8540 9640 1.0000

GAGENO
39.000 0836
40.000 .0720
41.000 .0657
42.000 .0073

MACH (1) = 12.030 HAW/HT(2) = .900 RE/FT = .96300 PD = 4246.0 TO = 3477.0 HO = 23.460

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 8540 .9640 1.0000

GAGENO
39.000 0782
40.000 0673
41.000 .0614
42.000 .0068

MACH (1) = 12.030 HAW/HT(3) = 1.000 RE/FT = .96300 PD = 4246.0 TO = 3477.0 HO = 23.460

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV 7470 8540 .9640 1.0000

GAGENO
39.000 0691
40.000 0595
41.000 .0543
42.000 .0060

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL (RUGV16)
 MACH (2) = 15.720 HAW/HT(1) = .850 RE/FT = .24490 P0 = 2491.0 TO = 3535.0 HO = 23.970

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0277

40.000 .0348

41.000 .0395

42.000 .0058

MACH (2) = 15.720 HAW/HT(2) = .900 RE/FT = .24490 P0 = 2491.0 TO = 3535.0 HO = 23.970

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0259

40.000 .0326

41.000 .0369

42.000 .0054

MACH (2) = 15.720 HAW/HT(3) = 1.000 RE/FT = .24490 P0 = 2491.0 TO = 3535.0 HO = 23.970

SECTION (1) VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0230

40.000 .0288

41.000 .0327

42.000 .0048

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(RUGV17) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN YMRP = .0000 IN.
 BREF = 1290 3000 IN ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 35.000 BETA = .000

MACH (1) = 12 060 HAW/HT(1) = 850 RE/FT = 98280 P0 = 4058.0 T0 = 3362.0 H0 = 22.590

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
 39.000 0811
 40 000 .0791
 41.000 0734
 42.000 .0095

MACH (1) = 12 060 HAW/HT(2) = .900 RE/FT = .98280 P0 = 4058.0 T0 = 3362.0 H0 = 22.590

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 8540 9640 1.0000

GAGENO
 39.000 .0757
 40 000 0739
 41.000 .0685
 42 000 .0089

MACH (1) = 12.060 HAW/HT(3) = 1.000 RE/FT = .98280 P0 = 4058.0 T0 = 3362.0 H0 = 22.590

SECTION (1)VERTICAL

DEPENDENT VARIABLE H/HREF

Z/BV 7470 8540 .9640 1.0000

GAGENO
 39.000 .0669
 40 000 .0653
 41 000 0606
 42 000 .0079

OH12/1H21 (CAL HST 173-100) 37 0 VERTICAL (RUGV17)
 MACH (2) = 15.740 HAW/HT(1) = .850 RE/FT = 25440 PO = 2551.0 TO = 3510.0 HO = 23.780

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
 39.000 .0255
 40 000 .0320
 41 000 .0370
 42.000 .0050

MACH (2) = 15.740 HAW/HT(2) = 900 RE/FT = 25440 PO = 2551.0 TO = 3510.0 HO = 23.780

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
 39 000 .0239
 40 000 .0299
 41 000 .0346
 42 000 .0047

MACH (2) = 15.740 HAW/HT(3) = 1.000 RE/FT = 25440 PO = 2551.0 TO = 3510.0 HO = 23.780

SECTION (1)VERTICAL DEPENDENT VARIABLE H/HREF

Z/BV .7470 .8540 .9640 1.0000

GAGENO
 39 000 .0211
 40 000 .0264
 41.000 .0306
 42.000 .0042

OH12/1H21 (CAL HST 173-100) 37 0 T-NP WING L.E.

(RUGA04) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 0000 IN.
 LREF = 1290.3000 IN. YMRP = 0000 IN.
 BREF = 1290.3000 IN. ZMRP = 0000 IN.
 SCALE = .1000

ALPHA = .000 BETA = .000

MACH (1) = 18.360 HAW/HT (1) = .850 RE/FT = .12410-01 P0 = 360.50 T0 = 4449.0 H0 = 31.530

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|
| .000 | .0254 | .0897 | .1984 | .2027 | .0152 | .0239 | .0349 |
| 30.000 | .0270 | .0000 | .1817 | .1826 | .0202 | .0121 | .0372 |

MACH (1) = 18.360 HAW/HT (2) = .900 RE/FT = .12410-01 P0 = 360.50 T0 = 4449.0 H0 = 31.530

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|
| .000 | .0238 | .0841 | .1860 | .1900 | .0143 | .0224 | .0327 |
| 30.000 | .0253 | .0000 | .1704 | .1711 | .0189 | .0114 | .0349 |

MACH (1) = 18.360 HAW/HT (3) = 1.000 RE/FT = .12410-01 P0 = 360.50 T0 = 4449.0 H0 = 31.530

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|
| .000 | .0212 | .0748 | .1653 | .1689 | .0127 | .0199 | .0291 |
| 30.000 | .0225 | .0000 | .1514 | .1521 | .0168 | .0101 | .0310 |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.E.

(RUGA05) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = 0000 IN
 LREF = 1290 3000 IN. YMRP = .0000 IN
 BRREF = 1290 3000 IN. ZMRP = .0000 IN
 SCALE = 1000

ALPHA = 000 BETA = 000

MACH (1) = 6.999 HAW/HT(1) = 850 RE/FT = .12050 P0 = 357.80 T0 = 5538.0 H0 = 41.770

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 .0417 .4749 7055 2783 0507 0501 2177
 30.000 0357 0000 7101 .1927 0553 0452 1779

MACH (1) = 6.999 HAW/HT(2) = 900 RE/FT = 12050 P0 = 357.80 T0 = 5538.0 H0 = 41.770

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 .0392 4461 6626 2614 0476 .0471 .2045
 30.000 .0336 0000 6670 1810 0519 0425 1671

MACH (1) = 6.999 HAW/HT(3) = 1.000 RE/FT = .12050 P0 = 357.80 T0 = 5538.0 H0 = 41.770

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 0349 .3978 .5909 .2331 0425 0420 1823
 30.000 .0299 0000 .5948 .1614 .0463 .0379 1490

MACH (2) = 7.616 HAW/HT(1) = .850 RE/FT = 1.2040 P0 = 519.30 T0 = 2007.0 H0 = 12.750

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 0378 9246 .9143 .3978 .0559 .0646 3043
 30.000 0325 .0000 .9149 .4349 .0727 0562 .2568

CH12/1H21 (CAL HST 173-100) 37 0 T WING L.E.

(RUGA05)

MACH (2) = 7.616 HAW/HT (2) = .900 RE/FT = 1.2040 PO = 519.30 T0 = 2007.0 HD = 12.750

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1.550 2 3.510 3 5.510 4 4.590 5 5.1640 6 5.080 8 3.220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|
| .000 | .0349 | .0535 | .0440 | .3672 | .0518 | .0597 | .2809 |
| 30.000 | .0300 | .0000 | .0445 | .4014 | .0671 | .0518 | .2371 |

MACH (2) = 7.616 HAW/HT (3) = 1.000 RE/FT = 1.2040 PO = 519.30 T0 = 2007.0 HD = 12.750

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1.550 2 3.510 3 5.510 4 4.590 5 5.1640 6 5.080 8 3.220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|
| .000 | .0303 | .7397 | .7315 | .3183 | .0448 | .0517 | .2435 |
| 30.000 | .0260 | .0000 | .7320 | .3479 | .0581 | .0449 | .2055 |

MACH (3) = 18.330 HAW/HT (1) = .850 RE/FT = .12100-01 PO = 346.80 T0 = 4436.0 HD = 31.410

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1.550 2 3.510 3 5.510 4 4.590 5 5.1640 6 5.080 8 3.220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|
| .000 | .0204 | .0927 | .1966 | .1679 | .0177 | .0179 | .0110 |
| 30.000 | .0180 | .0000 | .1850 | .1926 | .0214 | .0156 | .0276 |

MACH (3) = 18.330 HAW/HT (2) = .900 RE/FT = .12100-01 PO = 346.80 T0 = 4436.0 HD = 31.410

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1.550 2 3.510 3 5.510 4 4.590 5 5.1640 6 5.080 8 3.220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|
| .000 | .0191 | .0869 | .1843 | .1573 | .0166 | .0168 | .0103 |
| 30.000 | .0169 | .0000 | .1735 | .1806 | .0201 | .0146 | .0258 |

MACH (3) = 18.330 HAW/HT (3) = 1.000 RE/FT = .12100-01 PO = 346.80 T0 = 4436.0 HD = 31.410

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1.550 2 3.510 3 5.510 4 4.590 5 5.1640 6 5.080 8 3.220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|
| .000 | .0170 | .0773 | .1638 | .1398 | .0147 | .0149 | .0092 |
| 30.000 | .0150 | .0000 | .1542 | .1605 | .0179 | .0130 | .0230 |

OH12/IH21 (CAL HST 173-100) 37 0 T WING L E

(RUGA05)

MACH (4) = 19.200 HAW/HT(1) = .850 RE/FT = .43200-01 P0 = 1602.0 T0 = 4694.0 H0 = 33 500

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5.1640 6 5080 8 3220

PHI

000 0278 0000 .4308 2114 .0235 .0236 0578
30 000 .0195 0000 .4098 .2094 .0254 0210 0500

MACH (4) = 19 200 HAW/HT(2) = .900 RE/FT = .43200-01 P0 = 1602 0 T0 = 4694.0 H0 = 33 500

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5.1640 6 5080 8 3220

PHI

000 0261 .0000 4040 .1983 .0221 0221 .0542
30.000 0183 .0000 3844 .1964 0238 .0197 0468

MACH (4) = 19 200 HAW/HT(3) = 1.000 RE/FT = .43200-01 P0 = 1602 0 T0 = 4694.0 H0 = 33 500

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

000 0232 0000 .3594 .1764 .0196 .0197 0482
30 000 .0163 0000 .3419 .1747 .0212 .0175 0417

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.E.,

(RUGA06) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 5.000 BETA = .000

MACH (1) = 19.220 HAW/HT(1) = .850 RE/FT = .43430-01 P0 = 1614.0 T0 = 4695.0 H0 = 33.500

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 .0318 .3311 .5030 .2967 .0301 .0292 .0820
 30.000 .0282 .0000 .4951 .2868 .0312 .0265 .0796

MACH (1) = 19.220 HAW/HT(2) = .900 RE/FT = .43430-01 P0 = 1614.0 T0 = 4695.0 H0 = 33.500

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 .0298 .3105 .4717 .2783 .0282 .0274 .0769
 30.000 .0265 .0000 .4643 .2690 .0292 .0249 .0747

MACH (1) = 19.220 HAW/HT(3) = 1.000 RE/FT = .43430-01 P0 = 1614.0 T0 = 4695.0 H0 = 33.500

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 .0265 .2762 .4196 .2475 .0251 .0244 .0664
 30.000 .0235 .0000 .4130 .2393 .0260 .0221 .0664

OH12/IH21 (CAL HST 173-100) 37 0 WING L E

(RUGA07) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = .0000 IN
 LREF = 1290 3000 IN YMRP = .0000 IN
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = .000 BETA = .000

MACH (1) = 6 997 HAW/HT(1) = .850 RE/FT = 13020 P0 = 384 80 T0 = 5526.0 H0 = 41.700

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI
 .000 0656 6492 .6915 .1548 0763 0704 3217
 30 000 0575 4044 4003 2177 0822 0723 2855

MACH (1) = 6 997 HAW/HT(2) = .900 RE/FT = .13020 P0 = 384 80 T0 = 5526.0 H0 = 41.700

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI
 000 0616 6098 6495 .1454 0717 0661 3022
 30.000 .0540 .3798 .3760 .2045 .0772 .0679 .2682

MACH (1) = 6 997 HAW/HT(3) = 1.000 RE/FT = .13020 P0 = 384.80 T0 = 5526.0 H0 = 41.700

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI
 000 .0549 .5438 .5792 .1297 0640 .0590 2695
 30 000 .0482 3387 3353 1823 0689 0606 .2392

MACH (2) = 7 614 HAW/HT(1) = .850 RE/FT = 1.2320 P0 = 534 30 T0 = 2015.0 H0 = 12.800

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI
 000 .0809 .5760 .6156 .5828 .1120 .0000 .4432
 30.000 .0701 .5783 .5892 .2394 .1189 .0000 3718

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + 1H21 (CAL HST 173-100)

PAGE 225

OH12/1H21 (CAL HST 173-100) 37 0 WING L.E. (RUGA071)

MACH (2) = 7.614 HAW/HT(2) = .900 RE/FT = 1.2320 P0 = 534.30 T0 = 2015.0 H0 = 12.800

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2.3510 3 5150 4.4590 5.1640 6 5080 8 3220

PHI
.000 .0747 .5319 .5684 .5382 .1034 .0000 .4093
30.000 .0647 .5340 .5441 .2210 .1097 0000 .3434

MACH (2) = 7.614 HAW/HT(3) = 1.000 RE/FT = 1.2320 P0 = 534.30 T0 = 2015.0 H0 = 12.800

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI
.000 .0648 .4612 .4929 .4667 .0897 .0000 .3549
30.000 .0561 .4631 4718 1917 0952 0000 2977

MACH (3) = 16.060 HAW/HT(1) = .850 RE/FT = .44180-01 P0 = 560.00 T0 = 3731.0 H0 = 25.530

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI
.000 .0442 .3175 .5819 .2776 .0207 .0455 .1083
30.000 .0400 .3362 5297 2699 .0496 0414 .1073

MACH (3) = 16.060 HAW/HT(2) = .900 RE/FT = .44180-01 P0 = 560.00 T0 = 3731.0 H0 = 25.530

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI
.000 .0413 .2970 .5443 .2597 .0194 .0426 .1013
30.000 .0374 .3145 .4955 .2525 .0464 0388 .1004

MACH (3) = 16.060 HAW/HT(3) = 1.000 RE/FT = .44180-01 P0 = 560.00 T0 = 3731.0 H0 = 25.530

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI
.000 .0366 .2631 .4621 .2300 .0172 .0377 .0898
30.000 .0331 .2786 .4389 .2237 .0411 .0343 .0869

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0

HING L.E.

(RUGA07)

MACH (4) = 18.310 HAW/HT(1) = .850 RE/FT = 12290-01 P0 = 348 20 T0 = 4417 0 H0 = 31.290

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6.5080 8 3220

PHI

| | | | | | | | |
|--------|-------|-------|------|------|------|------|-------|
| 000 | .0273 | 2032 | 3393 | 2174 | 0215 | 0285 | .0661 |
| 30.000 | .0266 | .1508 | 3119 | 0000 | 0284 | 0280 | 0708 |

MACH (4) = 18.310 HAW/HT(2) = .900 RE/FT = 12290-01 P0 = 348 20 T0 = 4417 0 H0 = 31.290

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4.4590 5 1640 6.5080 8 3220

PHI

| | | | | | | | |
|--------|-------|------|------|-------|------|-------|------|
| 000 | .0256 | 1905 | 3180 | .2038 | 0202 | 0267 | 0620 |
| 30.000 | .0250 | 1414 | 2924 | 0000 | 0266 | .0262 | 0663 |

MACH (4) = 18.310 HAW/HT(3) = 1.000 RE/FT = 12290-01 P0 = 348 20 T0 = 4417.0 H0 = 31.290

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|------|------|------|
| 000 | .0228 | .1593 | .2827 | .1812 | 0180 | 0237 | 0551 |
| 30.000 | .0222 | .1257 | .2599 | .0000 | 0237 | 0233 | 0590 |

MACH (5) = 19.190 HAW/HT(1) = .850 RE/FT = .44400-01 P0 = 1603.0 T0 = 4644.0 H0 = 33.120

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3 5150 4 4590 5.1640 6.5080 8.3220

PHI

| | | | | | | | |
|--------|-------|------|------|-------|-------|-------|-------|
| 000 | .0304 | 0000 | 4356 | 1906 | 0248 | .0293 | .0903 |
| 30.000 | 0309 | 0000 | 3818 | .1908 | .0320 | .0301 | 0752 |

MACH (5) = 19.190 HAW/HT(2) = .900 RE/FT = .44400-01 P0 = 1603.0 T0 = 4644.0 H0 = 33.120

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2 3510 3 5150 4.4590 5 1640 6 5080 8.3220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 000 | .0285 | .0000 | .4085 | 1788 | .0233 | .0275 | .0847 |
| 30.000 | .0290 | .0000 | .3581 | .1790 | 0300 | .0282 | .0706 |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 227

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(RUGA07)

MACH (5) = 19.190 MAW/HT(3) = 1.000 RE/FT = 44400-01 PO = 1603 0 TO = 4644.0 HO = 33.120

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/REF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|
| .000 | .0254 | .0000 | .3634 | .1590 | .0207 | .0244 | .0753 |
| 30 000 | .0258 | .0000 | .3185 | .1592 | .0267 | .0251 | .0628 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E

(RUGA08) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN YMRP = .0000 IN.
 BREF = 1290 3000 IN ZMRP = 0000 IN.
 SCALE = .1000

ALPHA = 5.000 BETA = .000

MACH (1) = 19 180 HAW/HT(1) = .850 RE/FT = .45790-01 P0 = 1649 0 T0 = 4641.0 H0 = 33.120

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

.000 .0295 .3667 .3815 .1918 0266 .0518 0826
 30 000 .0229 .0000 .2906 .1539 0369 0423 0647

MACH (1) = 19 180 HAW/HT(2) = 900 RE/FT = .45790-01 P0 = 1649 0 T0 = 4641.0 H0 = 33.120

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

.000 .0276 .3439 .3578 .1798 0249 .0486 .0774
 30 000 .0215 .0000 .2725 .1444 0346 .0397 .0606

MACH (1) = 19 180 HAW/HT(3) = 1 000 RE/FT = .45790-01 P0 = 1649.0 T0 = 4641.0 H0 = 33.120

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

.000 .0246 .3059 .3182 .1600 .0222 .0432 0689
 30 000 .0191 .0000 .2424 .1284 0307 .0353 0539

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290 3000 IN. ZMRP = 0000 IN.
 SCALE = 1000

ALPHA = 10.000 BETA = 000

MACH (1) = 18.360 HAW/HT (1) = 850 RE/FT = .12480-01 PO = 347.10 TO = 4373.0 HO = 30.890

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1.550 2 3.510 3 5.150 4 4.590 5 1.640 6 5.080 8 3.220

PHI

.000 .0443 .4452 .3370 .1433 0328 0343 .0689
 30.000 .0468 .2998 .3914 .1283 0313 .0392 .0846

MACH (1) = 18 360 HAW/HT (2) = 900 RE/FT = .12480-01 PO = 347.10 TO = 4373.0 HO = 30.890

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1.550 2 3.510 3 5.150 4 4.590 5 1.640 6 5.080 8 3.220

PHI

.000 .0415 .4173 .3158 .1343 0307 .0321 .0646
 30.000 0438 .2810 .3669 1202 .0293 0368 .0793

MACH (1) = 18 360 HAW/HT (3) = 1.000 RE/FT = .12480-01 PO = 347.10 TO = 4373.0 HO = 30.890

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1.550 2 3.510 3 5.150 4 4.590 5 1.640 6 5.080 8 3.220

PHI

.000 .0369 .3708 .2807 .1193 .0273 .0286 .0574
 30.000 .0390 .2497 .3260 .1069 .0260 .0327 .0705

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L E

(RUGA10) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = 0000 IN
 LREF = 1290.3000 IN YMRP = 0000 IN.
 BREF = 1290.3000 IN ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 25 000 BETA = .000

MACH (1) = 6 973 HAW/HT(1) = 850 RE/FT = 12370 PO = 373 20 TO = 5587.0 HO = 42.320

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X , 1 1550 2.3510 3.5150 4 4590 5 1640 6 5080 8 3220

PHI

000 0000 5369 4762 .1677 .0000 0485 1249
 30 000 .0840 6636 6577 .3131 0360 .0925 2866

MACH (1) = 6 973 HAW/HT(2) = .900 RE/FT = .12370 PO = 373.20 TO = 5587.0 HO = 42 320

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2.3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

000 0000 5044 .4473 1575 0000 .0456 1174
 30.000 0789 6234 6179 2941 .0338 .0869 2692

MACH (1) = 6 973 HAW/HT(3) = 1.000 RE/FT = 12370 PO = 373.20 TO = 5587 0 HO = 42.320

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2 3510 3 5150 4 4590 5 1640 6 5080 8.3220

PHI

000 0000 4499 3989 1405 .0000 .0406 1047
 30.000 .0704 .5560 5511 .2623 0301 0775 .2401

MACH (2) = 7 921 HAW/HT(1) = .850 RE/FT = 7.3310 PO = 2181.0 TO = 1560.0 HO = 9.9040

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2 3510 3.5150 4 4590 5 1640 6.5080 8.3220

PHI

.000 .1061 1 4703 6344 2453 2085 0883 .3310
 30.000 .1710 .0000 1.1092 .4580 .1426 2026 5588

| | | OH12/IH21 (CAL HST 173-100) 37 0 | | | | | | | WING L.E. | (RUGA10) | | |
|----------------------------|--------|----------------------------------|--------|---------|--------|--------|--------|-------|-----------|----------|--------|--|
| MACH (2) = | 7.921 | HAW/HT(2) = | 900 | RE/FT = | 7.3310 | PO = | 2181.0 | T0 = | 1560.0 | H0 = | 9.9040 | |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | |
| Y OR X | 1.1550 | 2.3510 | 3.5150 | 4.4590 | 5.1640 | 6.5080 | 8.3220 | | | | | |
| PHI | | | | | | | | | | | | |
| | .000 | .0969 | 1.3434 | .5797 | .2241 | .1905 | .0807 | .3024 | | | | |
| | 30.000 | .1562 | .0000 | 1.0135 | .4185 | .1302 | .1851 | .5106 | | | | |
| MACH (2) = | 7.921 | HAW/HT(3) = | 1.000 | RE/FT = | 7.3310 | PO = | 2181.0 | T0 = | 1560.0 | H0 = | 9.9040 | |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | |
| Y OR X | 1.1550 | 2.3510 | 3.5150 | 4.4590 | 5.1640 | 6.5080 | 8.3220 | | | | | |
| PHI | | | | | | | | | | | | |
| | .000 | .0826 | 1.1456 | .4943 | .1911 | .1624 | .0698 | .2579 | | | | |
| | 30.000 | .1332 | .0000 | .8643 | .3568 | .1111 | .1579 | .4354 | | | | |
| MACH (3) = | 8.009 | HAW/HT(1) = | 850 | RE/FT = | 9.9780 | PO = | 900.90 | T0 = | 2772.0 | H0 = | 18.130 | |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | |
| Y OR X | 1.1550 | 2.3510 | 3.5150 | 4.4590 | 5.1640 | 6.5080 | 8.3220 | | | | | |
| PHI | | | | | | | | | | | | |
| | .000 | .0918 | .8940 | .5253 | .2328 | .1148 | .0630 | .0000 | | | | |
| | 30.000 | .1042 | .7135 | .7938 | .2949 | .0437 | .1270 | .0000 | | | | |
| MACH (3) = | 8.009 | HAW/HT(2) = | .900 | RE/FT = | 9.9780 | PO = | 900.90 | T0 = | 2772.0 | H0 = | 18.130 | |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | |
| Y OR X | 1.1550 | 2.3510 | 3.5150 | 4.4590 | 5.1640 | 6.5080 | 8.3220 | | | | | |
| PHI | | | | | | | | | | | | |
| | .000 | .0855 | .8230 | .4891 | .2168 | .1069 | .0586 | .0000 | | | | |
| | 30.000 | .0970 | .6643 | .7390 | .2746 | .0407 | .1183 | .0000 | | | | |
| MACH (3) = | 8.009 | HAW/HT(3) = | 1.000 | RE/FT = | 9.9780 | PO = | 900.90 | T0 = | 2772.0 | H0 = | 18.130 | |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | |
| Y OR X | 1.1550 | 2.3510 | 3.5150 | 4.4590 | 5.1640 | 6.5080 | 8.3220 | | | | | |
| PHI | | | | | | | | | | | | |
| | .000 | .0751 | .7232 | .4297 | .1905 | .0939 | .0515 | .0000 | | | | |
| | 30.000 | .0852 | .5837 | .6493 | .2413 | .0358 | .1039 | .0000 | | | | |

| | | OH12/IH21 (CAL HST 173-100) 37 0 | | | | | | | | WING L.E. | | (RUGA10) | | |
|----------------------------|--------|----------------------------------|--------|---------|--------|--------|--------|--------|----|-----------|--------|----------|---|--------|
| MACH (4) = | 10 450 | HAW/HT(1) = | 850 | RE/FT = | .91170 | PO | = | 2714 0 | T0 | = | 3466 0 | H0 | = | 23 370 |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | |
| Y OR X | 1 1550 | 2 3510 | 3.5150 | 4.4590 | 5 1640 | 6.5080 | 8.3220 | | | | | | | |
| PHI | | | | | | | | | | | | | | |
| | .000 | 0000 | 9162 | 5559 | 2172 | 0000 | .0630 | .3061 | | | | | | |
| | 30 000 | 1161 | 1 1369 | .0000 | .2801 | .0417 | 1265 | 4335 | | | | | | |
| MACH (4) = | 10 450 | HAW/HT(2) = | 900 | RE/FT = | .91170 | PO | = | 2714.0 | T0 | = | 3466 0 | H0 | = | 23 370 |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | |
| Y OR X | 1.1550 | 2 3510 | 3 5150 | 4.4590 | 5 1640 | 6 5080 | 8.3220 | | | | | | | |
| PHI | | | | | | | | | | | | | | |
| | 000 | 0000 | 8562 | 5195 | .2030 | 0000 | 0588 | .2860 | | | | | | |
| | 30 000 | 1085 | 1.0624 | .0000 | .2617 | 0390 | .1182 | 4051 | | | | | | |
| MACH (4) = | 10.450 | HAW/HT(3) = | 1.000 | RE/FT = | .91170 | PO | = | 2714 0 | T0 | = | 3466 0 | H0 | = | 23.370 |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | |
| Y OR X | 1.1550 | 2 3510 | 3 5150 | 4.4590 | 5.1640 | 6 5080 | 8 3220 | | | | | | | |
| PHI | | | | | | | | | | | | | | |
| | .000 | .0000 | 7570 | 4593 | 1795 | 0000 | 0520 | 2529 | | | | | | |
| | 30 000 | .0959 | 9394 | 0000 | 2314 | 0345 | .1045 | .3582 | | | | | | |
| MACH (5) = | 12 220 | HAW/HT(1) = | .850 | RE/FT = | .26170 | PO | = | 1591.0 | T0 | = | 3838 0 | H0 | = | 26.430 |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | |
| Y OR X | 1 1550 | 2 3510 | 3 5150 | 4 4590 | 5 1640 | 6 5080 | 8.3220 | | | | | | | |
| PHI | | | | | | | | | | | | | | |
| | 000 | 0648 | .8701 | 5144 | 2017 | .0881 | .0622 | 2375 | | | | | | |
| | 30 000 | .0787 | .9162 | 8109 | 2755 | .0469 | .1169 | 3584 | | | | | | |
| MACH (5) = | 12.220 | HAW/HT(2) = | .900 | RE/FT = | .26170 | PO | = | 1591 0 | T0 | = | 3838 0 | H0 | = | 26.430 |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | |
| Y OR X | 1 1550 | 2:3510 | 3.5150 | 4.4590 | 5.1640 | 6.5080 | 8.3220 | | | | | | | |
| PHI | | | | | | | | | | | | | | |
| | 000 | 0606 | .8144 | 4815 | 1888 | .0824 | .0582 | 2223 | | | | | | |
| | 30 000 | .0736 | .8576 | .7590 | 2579 | .0439 | .1095 | .3355 | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E. (RUGA10)

MACH (5) = 12.220 HAW/HT(3) = 1.000 RE/FT = .26170 P0 = 1591.0 T0 = 3838.0 H0 = 26.430

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI .000 .0537 7219 4268 .1674 .0731 .0516 1970
30.000 .0653 .7602 6728 .2286 .0389 .0970 2974

MACH (6) = 16.020 HAW/HT(1) = .850 RE/FT = .44700-01 P0 = 565.60 T0 = 3735.0 H0 = 25.590

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI .000 .0671 7714 .4355 .1462 .0582 .0546 .1986
30.000 .0786 7704 .6998 .2305 .0354 .0980 .2642

MACH (6) = 16.020 HAW/HT(2) = .900 RE/FT = .44700-01 P0 = 565.60 T0 = 3735.0 H0 = 25.590

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI .000 .0628 7217 4074 .1368 .0545 .0511 .1858
30.000 .0744 .7207 6547 .2156 .0331 .0917 2472

MACH (6) = 16.020 HAW/HT(3) = 1.000 RE/FT = .44700-01 P0 = 565.60 T0 = 3735.0 H0 = 25.590

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI .000 .0556 6393 .3609 .1212 .0482 .0453 .1646
30.000 .0659 .6385 .5800 .1910 .0293 .0812 .2190

MACH (7) = 19.180 HAW/HT(1) = .850 RE/FT = .44510-01 P0 = 1618.0 T0 = 4658.0 H0 = 33.250

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI .000 .0582 .6433 .3402 .1233 .0646 .0444 .1541
30.000 .0695 .0000 .5052 .2246 .0311 .0818 .1839

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 234

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(RUGA10)

MACH (7) = 19.180 HAW/HT (2) = .900 RE/FT = 44510-01 P0 = 1618 0 T0 = 4658 0 H0 = 33 250

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 .0546 .6033 3191 .1157 .0606 0417 .1445
30 000 .0651 .0000 4738 2106 .0291 0768 .1724

MACH (7) = 19.180 HAW/HT (3) = 1.000 RE/FT = 44510-01 P0 = 1618 0 T0 = 4658.0 H0 = 33 250

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4.4590 5.1640 6 5080 8.3220

PHI

000 0485 5367 2838 1029 0539 0371 1285
30.000 0579 0000 4215 1874 0259 0683 1534

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGA11) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290 3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 30 000 BETA = .000

MACH (1) = 7 011 HAW/HT(1) = .850 RE/FT = .13080 P0 = 370.80 T0 = 5426.0 H0 = 40.760

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

000 .0623 6013 .3914 .1042 .0825 .0443 .0000
 30 000 .0864 5894 .6178 .1612 0320 0891 .0000

MACH (1) = 7.011 HAW/HT(2) = .900 RE/FT = .13080 P0 = 370.80 T0 = 5426 0 H0 = 40 760

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2.3510 3.5150 4.4590 5 1640 6 5080 8.3220

PHI

000 .0585 5648 3676 .0978 0775 .0416 0000
 30.000 .0811 .5536 .5603 .1514 0300 0837 .0000

MACH (1) = 7 011 HAW/HT(3) = 1.000 RE/FT = 13080 P0 = 370.80 T0 = 5426.0 H0 = 40.760

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4.4590 5.1640 6.5080 8.3220

PHI

000 .0522 .5035 .3278 .0872 0691 .0371 .0000
 30 000 .0723 .4936 5174 .1350 0268 .0746 .0000

MACH (2) = 7 890 HAW/HT(1) = .850 RE/FT = .75740 P0 = 782.80 T0 = 3018.0 H0 = 19.990

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2 3510 3 5150 4.4590 5 1640 6.5080 8.3220

PHI

000 0607 6846 4757 0862 1057 .0493 .2152
 30 000 1034 5755 .7262 .2031 0348 .1071 3436

C.4

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 236

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E

(RUGA11)

MACH (2) = 7.890 HAW/HT(2) = 900 RE/FT = 75740 PO = 782 80 TO = 3018.0 HO = 19 990

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

000 0566 .6385 .4436 .0804 0986 .0460 2007
30 000 .0964 .5357 6773 .1894 .0324 0999 .3204

MACH (2) = 7 890 HAW/HT(3) = 1 000 RE/FT = 75740 PO = 782.80 TO = 3018 0 HO = 19 990

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3 5150 4.4590 5 1640 6 5080 8 3220

PHI

.000 0499 5627 3909 .0708 0869 0405 1768
30.000 0850 .4730 5958 .1669 0286 0880 .2824

MACH (3) = 7 922 HAW/HT(1) = 850 RE/FT = 7 5500 PO = 2310 0 TO = 1591 0 HO = 10.090

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6 5080 8 3220

PHI

000 1492 1.1524 .5201 1422 1824 0851 2806
30 000 .1729 0000 1 1567 3851 0564 2065 5107

MACH (3) = 7 922 HAW/HT(2) = 900 RE/FT = 7.5500 PO = 2310 0 TO = 1591 0 HO = 10.090

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3.5150 4 4590 5.1640 6 5080 8.3220

PHI

000 1365 1.0542 .4757 .1300 .1669 0779 .2567
30.000 .1581 0000 1 0580 3522 .0516 1889 .4672

MACH (3) = 7.922 HAW/HT(3) = 1 000 RE/FT = 7.5500 PO = 2310 0 TO = 1591.0 HO = 10 090

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4 4590 5 1640 6.5080 8 3220

PHI

000 .1166 9006 .4064 .1111 1426 .0665 .2193
30 000 1351 0000 .9039 .3009 .0441 .1614 3991

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E. (RUGA11)

MACH (4) = 10.520 HAW/HT(1) = .850 RE/FT = 1 0520 P0 = 2686.0 T0 = 3202.0 H0 = 21.360

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2.3510 3.5150 4.4590 5.1640 6.5080 8 3220

PHI
 .000 .0940 .7787 .4854 .1592 .0996 .0488 2375
 30 000 .1191 .9081 .8216 .2384 .0414 .1208 .3791

MACH (4) = 10.520 HAW/HT(2) = .900 RE/FT = 1 0520 P0 = 2686.0 T0 = 3202 0 H0 = 21.360

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2.3510 3.5150 4.4590 5.1640 6 5080 8 3220

PHI
 .000 .0784 .7270 .4531 .1486 .0930 .0456 2218
 30 000 .1112 .8478 .7670 .2226 .0397 .1128 3539

MACH (4) = 10.520 HAW/HT(3) = 1.000 RE/FT = 1.0520 P0 = 2686 0 T0 = 3202.0 H0 = 21.360

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8 3220

PHI
 .000 .0692 .6417 .4000 .1312 .0821 .0402 1958
 30.000 .0982 .7484 6771 .1965 .0341 .0995 3124

MACH (5) = 12.200 HAW/HT(1) = .850 RE/FT = .25390 P0 = 1613.0 T0 = 3922.0 H0 = 27.090

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8 3220

PHI
 .000 .0750 .6483 .4298 .1578 .0790 .0509 1980
 30 000 .0983 .7430 .7091 .2112 .0390 .1028 .2909

MACH (5) = 12.200 HAW/HT(2) = .900 RE/FT = .25390 P0 = 1613.0 T0 = 3922.0 H0 = 27.090

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2.3510 3.5150 4.4590 5.1640 6.5080 8 3220

PHI
 .000 .0702 .6069 .4024 .1477 .0740 .0476 .1854
 30.000 .0920 .6956 .6638 .1977 .0366 .0963 .2724

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L E

(RUGA11)

MACH (5) = 12.200 HAW/HT(3) = 1 000 RE/FT = .25390 P0 = 1613 0 T0 = 3922 0 H0 = 27.090

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|------|-------|-------|------|-------|------|------|
| 000 | 0622 | 5382 | .3568 | 1310 | .0656 | 0422 | 1644 |
| 30 000 | 0816 | .6168 | .5887 | 1753 | .0324 | 0854 | 2415 |

MACH (6) = 16 070 HAW/HT(1) = .850 RE/FT = 45820-01 P0 = 560 60 T0 = 3667.0 H0 = 25.040

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|-------|------|------|-------|------|-------|-------|
| 000 | 0734 | 6853 | 3178 | 1290 | 0850 | 0562 | .1724 |
| 30 000 | .0940 | 7673 | 6800 | .1728 | 0480 | .1075 | 2515 |

MACH (6) = 16 070 HAW/HT(2) = 900 RE/FT = .45820-01 P0 = 560 60 T0 = 3667.0 H0 = 25.040

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|-------|------|------|------|-------|-------|------|
| 000 | 0687 | 6410 | 2973 | 1207 | 0795 | 0525 | 1613 |
| 30 000 | .0879 | 7177 | 6360 | 1617 | .0449 | .1006 | 2352 |

MACH (6) = 16 070 HAW/HT(3) = 1 000 RE/FT = .45820-01 P0 = 560.60 T0 = 3667.0 H0 = 25.040

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|------|------|------|-------|-------|-------|-------|
| 000 | 0608 | 5678 | 2633 | .1069 | .0704 | .0465 | .1428 |
| 30 000 | 0779 | 6356 | 5632 | .1431 | .0398 | .0891 | 2083 |

MACH (7) = 19.150 HAW/HT(1) = .850 RE/FT = .43340-01 P0 = 1643.0 T0 = 4746.0 H0 = 33.960

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|
| .000 | .0552 | .4865 | .2786 | .1053 | .0615 | .0439 | .1277 |
| 30.000 | .0817 | .5784 | .4496 | .2404 | .0363 | .0828 | .1852 |

Q

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 239

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGA11)

MACH (7) = 19 150 HAW/HT(2) = .900 RE/FT = .43340-01 PD = 1643.0 T0 = 4746 0 H0 = 33.960

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8 3220

PHI

000 .0518 4563 2613 .0988 .0577 .0412 .1197
30.000 .0767 .5425 .4217 .2255 .0341 .0777 .1738

MACH (7) = 19 150 HAW/HT(3) = 1.000 RE/FT = .43340-01 PD = 1643.0 T0 = 4746.0 H0 = 33 960

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3 5150 4.4590 5 1640 6 5080 8 3220

PHI

000 .0461 .4060 2325 .0879 .0514 .0366 .1065
30.000 .0682 .4827 .3752 2006 .0303 .0691 .1546

,OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGA12) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = 0000 IN
 LREF = 1290 3000 IN YMRP = .0000 IN
 BREF = 1290.3000 IN ZMRP = 0000 IN
 SCALE = .1000

ALPHA = 35.000 BETA = .000

MACH (1) = 6 993 HAW/HT(1) = 850 RE/FT = .12520 P0 = 363.90 T0 = 5492 0 H0 = 41.400

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|------|------|------|------|------|------|------|
| 000 | 0678 | 4912 | 2775 | 0636 | 0826 | 0450 | 1479 |
| 30 000 | 0892 | 6178 | 5895 | 2049 | 0325 | 0957 | 2517 |

MACH (1) = 6 993 HAW/HT(2) = .900 RE/FT = .12520 P0 = 363 90 T0 = 5492 0 H0 = 41 400

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|-------|------|------|------|-------|------|-------|
| 000 | .0637 | 4614 | 2607 | 0597 | 0776 | 0423 | 1389 |
| 30 000 | .0838 | 5803 | 5537 | 1925 | .0305 | 0899 | .2365 |

MACH (1) = 6 993 HAW/HT(3) = 1.000 RE/FT = .12520 P0 = 363 90 T0 = 5492 0 H0 = 41 400

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|-------|------|------|-------|-------|------|-------|
| 000 | .0568 | 4115 | 2325 | .0533 | .0692 | 0377 | .1239 |
| 30 000 | 0747 | 5175 | 4938 | .1716 | 0272 | 0802 | 2109 |

MACH (2) = 7 922 HAW/HT(1) = .850 RE/FT = 7.5700 P0 = 2199.0 T0 = 1538.0' H0 = 9 7660

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|-------|------|--------|-------|------|-------|------|
| 000 | .1201 | 9149 | 4845 | .1034 | 0000 | .0831 | 2285 |
| 30.000 | .1885 | 7219 | 1 1000 | .3099 | 0502 | .2068 | 4775 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L E. (RUGA12)

MACH (2) = 7.922 HAW/HT(2) = .900 RE/FT = 7.5700 P0 = 2199.0 T0 = 1538.0 H0 = 9.7660

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 1097 8357 .4425 0944 0000 0759 2087
30.000 .1722 .6593 1.0047 .2830 .0458 1889 4362

MACH (2) = 7.922 HAW/HT(3) = 1.000 RE/FT = 7.5700 P0 = 2199.0 T0 = 1538.0 H0 = 9.7660

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 0935 7123 3771 0805 .0000 0647 1778
30.000 1468 5620 8563 2412 .0391 1610 3718

MACH (3) = 8.058 HAW/HT(1) = .850 RE/FT = 1.1090 P0 = 894.80 T0 = 2594.0 H0 = 16.850

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 0762 5916 .3510 .0885 .1103 .0501 .1855
30.000 1150 6106 .7179 .2469 .0374 .1156 2994

MACH (3) = 8.058 HAW/HT(2) = .900 RE/FT = 1.1090 P0 = 894.80 T0 = 2594.0 H0 = 16.850

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 .0709 .5501 .3264 .0823 .1026 .0466 1725
30.000 1070 .5678 .6675 .2296 .0347 1075 .2784

MACH (3) = 8.058 HAW/HT(3) = 1.000 RE/FT = 1.1090 P0 = 894.80 T0 = 2594.0 H0 = 16.850

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 .0621 4824 .2862 .0722 .0899 .0408 .1512
30.000 0938 4980 .5854 .2013 0305 .0942 .2442

| | | OH12/IH21 (CAL HST 173-100) 37 0 | | | | | | | | HING L E | | (RUGA12) | | |
|----------------------------|--------|----------------------------------|--------|---------|--------|--------|--------|--------|----|----------|--------|----------|---|--------|
| MACH (4) = | 10.730 | HAW/HT(1) = | 850 | RE/FT = | 1 9260 | P0 | = | 3618 0 | T0 | = | 2727 0 | H0 | = | 17 750 |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | |
| Y OR X | 1.1550 | 2.3510 | 3.5150 | 4.4590 | 5.1640 | 6.5080 | 8.3220 | | | | | | | |
| PHI | | | | | | | | | | | | | | |
| | 000 | .0868 | .7860 | .5083 | .1410 | .0976 | .0550 | .2379 | | | | | | |
| | 30.000 | .1240 | .8120 | .8198 | .2217 | .0414 | .1224 | .3596 | | | | | | |
| MACH (4) = | 10.730 | HAW/HT(2) = | .900 | RE/FT = | 1 9260 | P0 | = | 3618.0 | T0 | = | 2727.0 | H0 | = | 17.750 |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | |
| Y OR X | 1.1550 | 2.3510 | 3.5150 | 4.4590 | 5.1640 | 6.5080 | 8.3220 | | | | | | | |
| PHI | | | | | | | | | | | | | | |
| | 000 | .0808 | .7316 | .4731 | .1313 | .0909 | .0512 | .2214 | | | | | | |
| | 30.000 | .1155 | .7558 | .7631 | .2064 | .0385 | .1139 | .3347 | | | | | | |
| MACH (4) = | 10.730 | HAW/HT(3) = | 1 000 | RE/FT = | 1 9260 | P0 | = | 3618 0 | T0 | = | 2727 0 | H0 | = | 17 750 |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | |
| Y OR X | 1.1550 | 2.3510 | 3.5150 | 4.4590 | 5.1640 | 6.5080 | 8.3220 | | | | | | | |
| PHI | | | | | | | | | | | | | | |
| | 000 | .0710 | .6427 | .4156 | .1153 | .0798 | .0450 | .1945 | | | | | | |
| | 30.000 | .1014 | .6639 | .6703 | .1813 | .0339 | .1001 | .2940 | | | | | | |
| MACH (5) = | 12.230 | HAW/HT(1) = | .850 | RE/FT = | .26590 | P0 | = | 1621 0 | T0 | = | 3839 0 | H0 | = | 26.440 |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | |
| Y OR X | 1.1550 | 2.3510 | 3.5150 | 4.4590 | 5.1640 | 6.5080 | 8.3220 | | | | | | | |
| PHI | | | | | | | | | | | | | | |
| | 000 | .0775 | .5900 | .3630 | .1021 | .0870 | .0461 | .1770 | | | | | | |
| | 30.000 | .1117 | .7248 | .6502 | .1772 | .0383 | .1133 | .3006 | | | | | | |
| MACH (5) = | 12.230 | HAW/HT(2) = | .900 | RE/FT = | .26590 | P0 | = | 1621.0 | T0 | = | 3839.0 | H0 | = | 26.440 |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | |
| Y OR X | 1.1550 | 2.3510 | 3.5150 | 4.4590 | 5.1640 | 6.5080 | 8.3220 | | | | | | | |
| PHI | | | | | | | | | | | | | | |
| | 000 | .0725 | .5522 | .3398 | .0956 | .0814 | .0431 | .1657 | | | | | | |
| | 30.000 | .1046 | .6784 | .6086 | .1659 | .0359 | .1061 | .2813 | | | | | | |

| | | OH12/IH21 (CAL HST 173-100) 37 0 | | | | | | | WING L.E. | | (RU0A12) | |
|----------------------------|--------|----------------------------------|---------|---------|-----------|--------|--------|-------|-----------|------|----------|--|
| MACH (5) = | 12.230 | HAW/HT(3) = | 1.000 | RE/FT = | .26590 | PO = | 1621.0 | TO = | 3839.0 | H0 = | 26.440 | |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | |
| Y OR X | 1 1550 | 2 23510 | 3 35150 | 4 4590 | 5 51640 | 6 5080 | 8 3220 | | | | | |
| PHI | | | | | | | | | | | | |
| | .000 | .0643 | .4895 | .3012 | .0647 | .0722 | .0382 | .1469 | | | | |
| | 30.000 | .0927 | .6014 | .5395 | .1470 | .0318 | .0940 | .2494 | | | | |
| MACH (6) = | 15.960 | HAW/HT(1) = | .850 | RE/FT = | .43170-01 | PO = | 536.10 | TO = | 3720.0 | H0 = | 25.490 | |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | |
| Y OR X | 1 1550 | 2 3510 | 3 5150 | 4 4590 | 5 51640 | 6 5080 | 8 3220 | | | | | |
| PHI | | | | | | | | | | | | |
| | .000 | .0806 | .5564 | .3094 | .0841 | .0764 | .0430 | .1502 | | | | |
| | 30.000 | .0992 | .7532 | .5519 | .1304 | .0288 | .1083 | .2353 | | | | |
| MACH (6) = | 15.960 | HAW/HT(2) = | .900 | RE/FT = | .43170-01 | PO = | 536.10 | TO = | 3720.0 | H0 = | 25.490 | |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | |
| Y OR X | 1 1550 | 2 3510 | 3 5150 | 4 4590 | 5 51640 | 6 5080 | 8 3220 | | | | | |
| PHI | | | | | | | | | | | | |
| | .000 | .0754 | .5206 | .2895 | .0786 | .0715 | .0403 | .1405 | | | | |
| | 30.000 | .0928 | .7047 | .5164 | .1220 | .0270 | .1013 | .2202 | | | | |
| MACH (6) = | 15.960 | HAW/HT(3) = | 1.000 | RE/FT = | .43170-01 | PO = | 536.10 | TO = | 3720.0 | H0 = | 25.490 | |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | |
| Y OR X | 1 1550 | 2 3510 | 3 5150 | 4 4590 | 5 51640 | 6 5080 | 8 3220 | | | | | |
| PHI | | | | | | | | | | | | |
| | .000 | .0668 | .4612 | .2565 | .0697 | .0633 | .0357 | .1245 | | | | |
| | 30.000 | .0822 | .6242 | .4574 | .1081 | .0239 | .0898 | .1950 | | | | |
| MACH (7) = | 19.160 | HAW/HT(1) = | .850 | RE/FT = | .44730-01 | PO = | 1704.0 | TO = | 4753.0 | H0 = | 34.030 | |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | |
| Y OR X | 1 1550 | 2 3510 | 3 5150 | 4 4590 | 5 51640 | 6 5080 | 8 3220 | | | | | |
| PHI | | | | | | | | | | | | |
| | .000 | .0597 | .3955 | .2633 | .0714 | .0585 | .0419 | .1110 | | | | |
| | 30.000 | .0784 | .5018 | .4281 | .1810 | .0279 | .0830 | .1805 | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGA12)

MACH (7) = 19.160 HAW/HT(2) = 900 RE/FT = .44730-01 P0 = 1704.0 T0 = 4753 0 H0 = 34.030

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4.4590 5 1640 6 5080 8.3220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|-------|------|-------|
| .000 | .0560 | .3710 | .2470 | .0670 | .0548 | 0393 | .1041 |
| 30.000 | .0736 | .4707 | .4016 | .1698 | .0262 | 0778 | .1693 |

MACH (7) = 19.160 HAW/HT(3) = 1.000 RE/FT = .44730-01 P0 = 1704 0 T0 = 4753.0 H0 = 34 030

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3.5150 4.4590 5 1640 6 5080 8.3220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|-------|------|-------|
| .000 | .0498 | .3301 | .2198 | .0596 | .0488 | 0350 | .0926 |
| 30.000 | .0655 | .4188 | .3573 | .1510 | .0233 | 0692 | .1506 |

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 40.000 BETA = .000

MACH (1) = 7.921 HAW/HT (1) = .850 RE/FT = 7.4790 P0 = 2300.0 T0 = 1596.0 H0 = 10.120

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 .1200 .6342 .0000 .0000 .1888 .0787 .1913
 30.000 .1896 .0000 .8744 2126 .0450 .2085 .3556

MACH (1) = 7.921 HAW/HT (2) = .900 RE/FT = 7.4790 P0 = 2300.0 T0 = 1596.0 H0 = 10.120

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2.3510 3 5150 4.4590 5 1640 6 5080 8 3220

PHI

.000 1097 5801 .0000 0000 1727 0720 1750
 30 000 .1735 .0000 .7999 .1945 .0411 .1908 .3253

MACH (1) = 7.921 HAW/HT (3) = 1.000 RE/FT = 7.4790 P0 = 2300.0 T0 = 1596.0 H0 = 10.120

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2.3510 3 5150 4.4590 5 1640 6 5080 8 3220

PHI

.000 0938 .4956 .0000 .0000 .1475 .0615 .1495
 30.000 .1482 .0000 .6834 .1662 .0351 1630 2779

MACH (2) = 8.024 HAW/HT (1) = .850 RE/FT = 1.0600 P0 = 921.50 T0 = 2712.0 H0 = 17.700

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3.5150 4.4590 5.1640 6 5080 8 3220

PHI

.000 .0639 .5603 .2623 .0437 .1190 .0460 .1636
 30.000 .1191 1.1015 .5735 .1435 .0360 .1161 3285

ORIGINAL PAGE IS
OF POOR QUALITY

| | | OH12/IH21 (CAL HST 173-100) 37 0 | | | | | | | | WING L E | | (RUGA13) | | |
|----------------------------|--------|----------------------------------|--------|---------|--------|--------|--------|--------|----|----------|--------|----------|---|--------|
| MACH (2) = | 8 024 | HAW/HT (2) = | 900 | RE/FT = | 1 0600 | P0 | = | 921 50 | T0 | = | 2712 0 | H0 | = | 17.700 |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | |
| Y OR X | 1 1550 | 2 3510 | 3 5150 | 4 4590 | 5 1640 | 6.5080 | 8 3220 | | | | | | | |
| PHI | | | | | | | | | | | | | | |
| | 000 | 0595 | 5215 | 2441 | 0407 | 1107 | 0428 | 1522 | | | | | | |
| | 30 000 | 1108 | 1.0251 | 5337 | 1335 | 0335 | 1080 | 3058 | | | | | | |
| MACH (2) = | 8 024 | HAW/HT (3) = | 1.000 | RE/FT = | 1 0600 | P0 | = | 921 50 | T0 | = | 2712.0 | H0 | = | 17.700 |
| SECTION (1) LEADING EDGE | | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | |
| Y OR X | 1 1550 | 2 3510 | 3 5150 | 4.4590 | 5 1640 | 6.5080 | 8 3220 | | | | | | | |
| PHI | | | | | | | | | | | | | | |
| | 000 | 0523 | 4580 | .2144 | .0357 | 0972 | 0376 | 1337 | | | | | | |
| | 30 000 | 0973 | 9003 | 4687 | .1173 | 0294 | 0949 | 2685 | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 Y WING L.E.

(RUGA14) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = .000 BETA = .000

MACH (1) = 16.050 HAW/HT(1) = .850 RE/FT = .46340-01 PO = 577.10 TO = 3699.0 HO = 25.320

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2 3510 3 5150 4.4590 5 1640 6.5080 8.3220

PHI

.000 .0352 3354 .6757 .3031 .0199 0277 .0875
 30 000 .0338 2412 6450 .2463 0358 0317 .0757

MACH (1) = 16.050 HAW/HT(2) = .900 RE/FT = 46340-01 PO = 577.10 TO = 3699.0 HO = 25.320

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 0330 3137 .6321 .2835 0186 0260 .0818
 30 000 0317 2256 .6034 .2304 0335 0297 .0708

MACH (1) = 16 050 HAW/HT(3) = 1.000 RE/FT = .46340-01 PO = 577.10 TO = 3699.0 HO = 25.320

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2 3510 3.5150 4.4590 5 1640 6.5080 8.3220

PHI

.000 .0292 2779 .5599 2511 0165 .0230 .0725
 30.000 .0280 1999 .5345 2041 .0297 .0263 .0627

ORIGINAL PAGE
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L E

(RUGA15) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT XMRP = 0000 IN
 LREF = 1290 3000 IN YMRP = .0000 IN
 BREF = 1290 3000 IN ZMRP = .0000 IN
 SCALE = .1000

ALPHA = 25.000 BETA = .000

MACH (1) = 12 030 HAW/HT(1) = 850 RE/FT = .95540 P0 = 4211 0 T0 = 3477.0 H0 = 23.460

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

.000 .0800 9312 4801 .2073 0956 0566 .2088

30.000 0656 7754 7459 .2570 .0418 1183 .3210

MACH (1) = 12 030 HAW/HT(2) = 900 RE/FT = .95540 P0 = 4211 0 T0 = 3477.0 H0 = 23 460

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

.000 .0748 8703 4487 .1937 .0893 .0529 .1951

30 000 .0613 7247 6972 2402 .0391 1106 3000

MACH (1) = 12 030 HAW/HT(3) = 1.000 RE/FT = .95540 P0 = 4211 0 T0 = 3477 0 H0 = 23 460

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

.000 .0661 .7697 .3969 .1713 .0790 .0468 1726

30 000 .0542 6410 .6166 .2124 .0346 0978 .2653

MACH (2) = 15 720 HAW/HT(1) = .850 RE/FT = .23850 P0 = 2417 0 T0 = 3531.0 H0 = 23.940

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

.000 .0791 .8588 .4728 .3956 .0761 .0669 .2691

30.000 .1031 8304 .7582 5305 .0494 .1175 .3588

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGA15)

MACH (2) = 15.720 HAW/HT(2) = .900 RE/FT = .23850 P0 = 2417.0 T0 = 3531.0 H0 = 23.940

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|
| .000 | .0740 | .8029 | .4420 | .3699 | .0711 | .0626 | .2516 |
| 30.000 | .0964 | .7764 | .7088 | .4960 | .0462 | .1099 | .3354 |

MACH (2) = 15.720 HAW/HT(3) = 1.000 RE/FT = 23850 P0 = 2417.0 T0 = 3531.0 H0 = 23.940

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|
| .000 | .0654 | .7104 | .3911 | .3272 | .0629 | .0554 | .2226 |
| 30.000 | .0853 | .6869 | .6272 | .4388 | .0408 | .0972 | .2968 |

OH12/1H21 (CAL HST 173-100) 37 0 HING L.E.

(RU0A16) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = .0000 IN.
 LREF = 1290 3000 IN. YMRP = .0000 IN.
 BREF = 1290 3000 IN ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 30.000 BETA = .000

MACH (1) = 12 030 HAW/HT(1) = .850 RE/FT = 96300 P0 = 4246.0 T0 = 3477.0 H0 = 23 460

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X . 1 1550 2 3510 3 5150 4 4590 5.1640 6 5080 8 3220

PHI

.000 0736 6580 4035 1431 0781 0531 .2128
 30 000 1008 7489 .6624 2060 0368 .1082 3211

MACH (1) = 12 030 HAW/HT(2) = .900 RE/FT = 96300 P0 = 4246.0 T0 = 3477.0 H0 = 23 460

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2.3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

.000 0688 .6150 .3771 1337 .0730 .0497 .1989
 30 000 0942 7000 6191 1944 .0344 1012 .3001

MACH (1) = 12 030 HAW/HT(3) = 1 000 RE/FT = .96300 P0 = 4246.0 T0 = 3477.0 H0 = 23.460

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3.5150 4 4590 5.1640 6.5080 8 3220

PHI

.000 0608 5439 .3335 1183 0646 0439 .1759
 30.000 0833 6191 .5475 .1719 .0305 .0895 .2654

MACH (2) = 15 720 HAW/HT(1) = .850 RE/FT = .24490 P0 = 2491.0 T0 = 3535.0 H0 = 23.970

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2 3510 3.5150 4 4590 5 1640 6 5080 8.3220

PHI

.000 0850 6126 .7920 .3002 0947 .0587 2118
 30.000 1127 8988 1.5155 .4311 0494 1283 .3198

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 251

OH12/IH21 (CAL HST 173-100) 37 0 WING L E. (RUGA16)

MACH (2) = 15.720 HAW/HT (2) = 900 RE/FT = 24490 P0 = 2491 0 T0 = 3535.0 H0 = 23.970

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 .0794 .5727 .7405 .2807 0885 0549 1980
30.000 .1053 .8403 1.4169 .4031 .0462 .1199 .2990

MACH (2) = 15.720 HAW/HT (3) = 1 000 RE/FT = 24490 P0 = 2491.0 T0 = 3535.0 H0 = 23.970

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 .0703 .5068 6552 2484 0783 0485 1752
30.000 .0932 .7436 1.2537 .3567 .0409 1061 2645

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 HING L.E.

(RUGA17) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = 0000 IN
 LREF = 1290.3000 IN. YMRP = 0000 IN.
 BREF = 1290 3000 IN ZMRP = .0000 IN
 SCALE = 1000

ALPHA = 35 000 BETA = 000

MACH (1) = 12 060 HAW/HT(1) = 850 RE/FT = .98280 PO = 4058.0 TO = 3362 0 HO = 22 590

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4.4590 5 1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|-------|------|------|-------|------|-------|------|
| 000 | 0921 | 6866 | 3997 | .1075 | 1053 | 0579 | 2054 |
| 30 000 | .1294 | 8360 | 7413 | 1868 | 0442 | .1373 | 3492 |

MACH (1) = 12 060 HAW/HT(2) = 900 RE/FT = .98280 PO = 4058 0 TO = 3362 0 HO = 22.590

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3 5150 4 4590 5.1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|-------|-------|------|------|------|------|-------|
| 000 | 0860 | 6415 | 3734 | 1004 | 0984 | 0541 | .1919 |
| 30 000 | .1209 | .7811 | 6926 | 1745 | 0413 | 1283 | 3263 |

MACH (1) = 12 060 HAW/HT(3) = 1.000 RE/FT = .98280 PO = 4058 0 TO = 3362.0 HO = 22.590

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1550 2 3510 3.5150 4.4590 5.1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|-------|-------|-------|-------|------|------|-------|
| 000 | 0760 | .5670 | 3300 | 0888 | 0870 | 0478 | 1697 |
| 30 000 | .1069 | .6904 | .6121 | .1543 | 0365 | 1134 | .2884 |

MACH (2) = 15.740 HAW/HT(1) = .850 RE/FT = .25440 PO = 2551.0 TO = 3510 0 HO = 23 780

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1.1550 2 3510 3.5150 4.4590 5 1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|-------|------|------|-------|------|-------|------|
| 000 | .0871 | 6207 | 3746 | .1078 | 0992 | .0578 | 1917 |
| 30.000 | 1181 | 7725 | 6260 | .1974 | 0459 | 1167 | 2858 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGA17)

MACH (2) = 15.740 HAW/HT(2) = .900 RE/FT = .25440 P0 = 2551.0 T0 = 3510.0 H0 = 23.780

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1.1550 2 2.3510 3 3.5150 4 4.4590 5 5.1640 6 6.5080 8 8.3220

PHI

| | | | | | | | |
|--------|-------|-------|------|-------|-------|-------|-------|
| .000 | .0815 | .5803 | 3502 | .1008 | .0927 | .0540 | .1792 |
| 30.000 | .1104 | .7221 | 5852 | .1845 | .0429 | .1091 | .2671 |

MACH (2) = 15.740 HAW/HT(3) = 1.000 RE/FT = .25440 P0 = 2551.0 T0 = 3510.0 H0 = 23.780

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y OR X 1 1.1550 2 2.3510 3 3.5150 4 4.4590 5 5.1640 6 6.5080 8 8.3220

PHI

| | | | | | | | |
|--------|-------|-------|------|-------|-------|-------|-------|
| .000 | .0721 | .5134 | 3098 | .0892 | .0820 | .0478 | .1585 |
| 30.000 | .0977 | .6389 | 5177 | .1633 | .0380 | .0965 | .2363 |

OH12/IH21 (CAL HST 173-100) 37 0 T-NP WING L.E

(RUGC04) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT. XMRP = .0000 IN
 LREF = 1290.3000 IN YMRP = 0000 IN.
 BREF = 1290 3000 IN. ZMRP = 0000 IN
 SCALE = 1000

ALPHA = 000 BETA = 000

MACH (1) = 18.360 HAW/HT (1) = 850 RE/FT = 12410-01 P0 = 360.50 T0 = 4449 0 H0 = 31' 530

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

- .048 .1773 .0000
 -.028 1552
 - .024 .4799
 000 .1417 .3542
 019 0000
 .023 3123
 041 1897
 045 2121
 056 0000
 057 2220
 077 0000
 090 1249
 093 0000
 113 .1052

MACH (1) = 18.360 HAW/HT (2) = 900 RE/FT = 12410-01 P0 = 360.50 T0 = 4449 0 H0 = 31.530

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

- .048 1663 0000
 - .028 .1455
 - .024 4499
 000 1328 .3320
 019 0000
 023 2928
 .041 .1779
 045 1988
 .056 0000
 .057 2081
 .077 0000
 .090 .1171
 .093 .0000
 .113 .0986

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 255

OH12/IH21 (CAL HST 173-100) 37 O T-NP HING L E.

(RUGCO4)

MACH (1) = 18.360 HAN/HT(3) = 1.000 RE/FT = .12410-01 P0 = 360.50 T0 = 4449 0 H0 = 31 530

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

| D | | |
|--------|-------|-------|
| - 048 | .1478 | .0000 |
| - 028 | .1293 | |
| - .024 | | .3998 |
| .000 | .1180 | .2951 |
| .019 | .0000 | |
| .023 | | .2602 |
| .041 | 1581 | |
| .045 | | .1767 |
| .056 | .0000 | |
| .057 | ft | .1850 |
| .077 | 0000 | |
| .090 | | .1040 |
| .093 | .0000 | |
| 113 | | 0877 |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 T WING L E

(RUGC05) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 50 FT XMRP = 0000 IN
 LREF = 1290 3000 IN YMRP = 0000 IN
 BREF = 1290 3000 IN ZMRP = 0000 IN
 SCALE = .1000

ALPHA = .000 BETA = 000

MACH (1) = 6 999 HAW/HT(1) = 950 RE/FT = .12050 P0 = 357.80 T0 = 5538.0 H0 = 41 770

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D
 - 048 .4037 0000
 - 028 .4780
 - 024 .6616
 000 5265 7713
 019 0000
 023 .5619
 041 3509
 045 3983
 056 0000
 057 3697
 077 0000
 .090 .1839
 093 0000
 113 1874

MACH (1) = 6 999 HAW/HT(2) = 900 RE/FT = .12050 P0 = 357.80 T0 = 5538 0 H0 = 41.770

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

D
 -.048 3792 .0000
 - 028 4490
 - 024 .6214
 .000 4945 .7245
 019 .0000
 .023 .5278
 041 3296
 045 3742
 056 0000
 .057 .3473
 .077 0000
 .090 .1727
 093 0000
 113 1760

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.E.

(RUGC05)

MACH (1) = 6.999 HAW/HT(3) = 1.000 RE/FT = 12050 PO = 357 80 TO = 5538.0 HO = 41 770

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | .3382 | 0000 |
| - 028 | .4004 | |
| - 024 | | 5542 |
| .000 | .4410 | .6460 |
| .019 | 0000 | |
| .023 | | 4707 |
| .041 | 2939 | |
| .045 | | 3337 |
| .056 | .0000 | |
| .057 | | 3097 |
| .077 | .0000 | |
| .090 | | .1540 |
| .093 | .0000 | |
| .113 | | 1570 |

MACH (2) = 7 616 HAW/HT(1) = .850 RE/FT = 1.2040 PO = 519.30 TO = 2007.0 HO = 12.750

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | .4474 | .0000 |
| - 028 | .6677 | |
| - 024 | | 7898 |
| .000 | .7553 | 9612 |
| .019 | .0000 | |
| .023 | | .7919 |
| .041 | 5254 | |
| .045 | | .4807 |
| .056 | .0000 | |
| .057 | | .4794 |
| .077 | .0000 | |
| .090 | | .2550 |
| .093 | .0000 | |
| .113 | | .2294 |

OH12/IH21 (CAL HST 173-100) 37 0 T WING L E.

(RUGC05)

MACH (2) = 7.616 HAW/HT(2) = .900 RE/FT = 1.2040 PO = 519.30 TO = 2007 0 HO = 12.750

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | .4130 | .0000 |
| - 028 | .6164 | |
| - 024 | " | .7291 |
| 000 | .6972 | .8873 |
| .019 | 0000 | |
| 023 | | 7310 |
| .041 | .4850 | |
| 045 | | 4438 |
| 056 | 0000 | |
| 057 | | 4425 |
| .077 | .0000 | |
| 090 | | 2354 |
| .093 | 0000 | |
| 113 | | .2118 |

MACH (2) = 7.616 HAW/HT(3) = 1.000 RE/FT = 1.2040 PO = 519.30 TO = 2007 0 HO = 12.750

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | .3580 | .0000 |
| - 028 | .5342 | |
| - 024 | | .6319 |
| .000 | .6043 | .7690 |
| 019 | 0000 | |
| 023 | | .6336 |
| .041 | .4204 | |
| .045 | | .3846 |
| .056 | 0000 | |
| 057 | | .3836 |
| 077 | 0000 | |
| .090 | | .2041 |
| 093 | 0000 | |
| 113 | | .1836 |

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.E.

(RUGC05)

MACH (3) = 18.330 HAW/HT(1) = 850 RE/FT = 12100-01 PO = 346.80 TO = 4436.0 HO = 31.410

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|--------|-------|-------|
| - .048 | .1386 | .0000 |
| - .028 | .1593 | |
| - .024 | | .3470 |
| .000 | 1797 | 3350 |
| .019 | 0000 | |
| .023 | | 2665 |
| .041 | 1300 | |
| .045 | | .1536 |
| .056 | .0000 | |
| .057 | | 1373 |
| .077 | .0000 | |
| .090 | | .0856 |
| .093 | 0000 | |
| .113 | | 1079 |

MACH (3) = 18.330 HAW/HT(2) = .900 RE/FT = .12100-01 PO = 346.80 TO = 4436.0 HO = 31.410

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|--------|-------|-------|
| - .048 | .1300 | 0000 |
| - .028 | 1494 | |
| - .024 | | .3253 |
| .000 | 1684 | .3140 |
| .019 | .0000 | |
| .023 | | 2498 |
| .041 | .1219 | |
| .045 | | .1440 |
| .056 | .0000 | |
| .057 | | .1287 |
| .077 | .0000 | |
| .090 | | .0802 |
| .093 | 0000 | |
| .113 | | .1011 |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 T WING L E

(RUGC05)

MACH (3) = 18 330 HAW/HT(3) = 1 000 RE/FT = .12100-01 P0 = 346 80 T0 = 4436 0 H0 = 31.410

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| -.048 | .1155 | .0000 |
| -.028 | .1327 | |
| -.024 | | .2891 |
| .000 | .1497 | .2791 |
| .019 | .0000 | |
| .023 | | .2220 |
| .041 | .1083 | |
| .045 | | .1280 |
| .056 | .0000 | |
| .057 | | .1144 |
| .077 | .0000 | |
| .090 | | .0713 |
| .093 | .0000 | |
| .113 | | .0899 |

MACH (4) = 19 200 HAW/HT(1) = .850 RE/FT = .43200-01 P0 = 1602 0 T0 = 4694.0 H0 = 33 500

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| -.048 | .2652 | .0000 |
| -.028 | .2866 | |
| -.024 | | .5358 |
| .000 | .3199 | .7057 |
| .019 | .0000 | |
| .023 | | .5078 |
| .041 | .2084 | |
| .045 | | .2994 |
| .056 | .0000 | |
| .057 | | .3332 |
| .077 | .0000 | |
| .090 | | .1885 |
| .093 | .0000 | |
| .113 | | .1702 |

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.E

(RUGG05)

MACH (4) = 19.200 HAW/HT (2) = .900 RE/FT = .43200-01 P0 = 1602 0 TO = 4694.0 HD = 33.500

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

D

| | | |
|-------|-------|-------|
| -.048 | .2487 | 0000 |
| -.028 | .2688 | |
| -.024 | | .5025 |
| .000 | .3001 | .6618 |
| .019 | .0000 | |
| .023 | | .4763 |
| .041 | .1955 | |
| .045 | | .2808 |
| .056 | .0000 | |
| .057 | | .3125 |
| .077 | .0000 | |
| .090 | | .1768 |
| .093 | 0000 | |
| .113 | | .1596 |

MACH (4) = 19.200 HAW/HT (3) = 1.000 RE/FT = .43200-01 P0 = 1602 0 TO = 4694 0 HD = 33.500

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | .2212 | .0000 |
| -.028 | .2391 | |
| -.024 | | .4470 |
| .000 | .2669 | .5887 |
| .019 | 0000 | |
| .023 | | .4237 |
| .041 | .1739 | |
| 045 | | .2498 |
| 056 | 0000 | |
| .057 | | .2780 |
| .077 | .0000 | |
| 090 | | 1572 |
| .093 | .0000 | |
| 113 | | 1420 |

OH12/IH21 (CAL HST 173-100) 37 0 T WING L E.

(RUGC06) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT XMRP = 0000 IN.
 LREF = 1290 3000 IN YMRP = 0000 IN
 BREF = 1290.3000 IN. ZMRP = 0000 IN
 SCALE = 1000

ALPHA = 5.000 BETA = 000

MACH (1) = 19.220 HAW/HT(1) = 850 RE/FT = 43430-01 PO = 1614.0 TO = 4695 0 HO = 33.500

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D
 - 048 3894 0000
 - 028 3896
 - 024 7960
 000 4474 8820
 019 .0000
 023 7211
 041 2830
 045 3752
 056 0000
 057 4182
 077 0000
 090 2958
 093 0000
 113 1965

MACH (1) = 19 220 HAW/HT(2) = .900 RE/FT = .43430-01 PO = 1614.0 TO = 4695 0 HO = 33.500

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D
 - 048 .3652 .0000
 - .028 3654
 - 024 .7466
 000 .4196 .8272
 019 .0000
 023 6763
 .041 .2654
 .045 .3519
 .056 .0000
 057 .3922
 077 0000
 090 2774
 .093 0000
 113 1843

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.E.

(RUGC06)

MACH (1) = 19.220 HAW/HT(3) = 1 000 RE/FT = .43430-01 P0 = 1614.0 T0 = 4695.0 H0 = 33 500

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

| | | |
|-------|------|-------|
| D | | |
| -.048 | 3248 | 0000 |
| -.028 | 3250 | |
| -.024 | | .6641 |
| .000 | 3732 | .7358 |
| 019 | 0000 | |
| .023 | | .6016 |
| 041 | 2361 | |
| 045 | | .3130 |
| 056 | 0000 | |
| 057 | | 3488 |
| 077 | 0000 | |
| 090 | | .2468 |
| 093 | 0000 | |
| .113 | | 1639 |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/1H21 (CAL HST 173-100) 37 0 WING L E

(RUGC07) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290 3000 IN YMRP = 0000 IN
 BREF = 1290 3000 IN ZMRP = .0000 IN
 SCALE = 1000

ALPHA = .000 BETA = 000

MACH (1) = 6 997 HAW/HT(1) = 850 RE/FT = .13020 P0 = 384 80 T0 = 5526 0 H0 = 41 700

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D
 -.048 .5030 3628
 -.028 .6258
 - 024 0000
 000 7438 3607
 019 6811
 023 .0000
 .041 .5628
 045 0000
 .056 3568
 .057 2551
 .077 2781
 090 .0000
 .093 0000
 .113 0000

MACH (1) = 6 997 HAW/HT(2) = .900 RC/FT = 13020 P0 = 384 80 T0 = 5526.0 H0 = 41.700

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D
 -.048 .4725 .3408
 - 028 5879
 - 024 .0000
 .000 .6987 .3388
 .019 6398
 .023 .0000
 .041 .5286
 .045 .0000
 .056 .3352
 057 2396
 077 2612
 090 .0000
 093 .0000
 .113 0000

OH12/IH21 (CAL HST 173-100) 37 0 WING L E. (RUGC07)

MACH (1) = 6.997 HAW/HT(3) = 1.000 RE/FT = 13020 PO = 384.80 TO = 5526.0 HD = 41 700

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|-------|-------|-------|
| - 048 | .4214 | .3039 |
| - 028 | 5242 | |
| - 024 | | .0000 |
| .000 | .6231 | 3021 |
| .019 | .5705 | |
| .023 | | .0000 |
| .041 | .4714 | |
| .045 | | .0000 |
| .056 | 2989 | |
| .057 | | .2137 |
| .077 | 2330 | |
| .090 | | .0000 |
| .093 | 0000 | |
| .113 | | .0000 |

MACH (2) = 7 614 HAW/HT(1) = .850 RE/FT = 1.2320 PO = 534 30 TO = 2015 0 HD = 12.800

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|-------|--------|-------|
| - 048 | .5894 | .5356 |
| - 028 | 7813 | |
| - 024 | | .6971 |
| .000 | .8711 | .8967 |
| .019 | 1.0882 | |
| .023 | | .7424 |
| .041 | .6384 | |
| .045 | | .4012 |
| .056 | 4094 | |
| .057 | | .3103 |
| .077 | .3278 | |
| .090 | | .1719 |
| .093 | .1477 | |
| .113 | | .2023 |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(RUGC07)

MACH (2) = 7.614 HAW/HT (2) = .900 RE/FT = 1 2320 P0 = 534.30 T0 = 2015.0 H0 = 12.800

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|--------|-------|
| -.048 | .5442 | .4946 |
| -.028 | .7215 | |
| -.024 | | .6437 |
| .000 | .8967 | .9204 |
| .019 | 1.0048 | |
| .023 | | .6855 |
| .041 | .5895 | |
| .045 | | .3785 |
| .056 | .3780 | |
| .057 | | .2866 |
| .077 | .3027 | |
| .090 | | .1587 |
| .093 | .1364 | |
| .113 | | .1868 |

MACH (2) = 7.614 HAW/HT (3) = 1 000 RE/FT = 1.2320 P0 = 534.30 T0 = 2015 0 H0 = 12.800

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

D

| | | |
|-------|-------|-------|
| -.048 | .4719 | .4289 |
| -.028 | .6256 | |
| -.024 | | .5582 |
| .000 | .7776 | .7981 |
| .019 | .8713 | |
| .023 | | .5944 |
| .041 | .5112 | |
| .045 | | .3213 |
| .056 | .3278 | |
| .057 | | .2485 |
| .077 | .2625 | |
| .090 | | .1376 |
| .093 | .1183 | |
| .113 | | .1620 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L E. (RUGC07)

MACH (3) = 16.060 HAW/HT(1) = 850 RE/FT = 44180-01 PD = 560.00 T0 = 3731.0 H0 = 25.530

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| -.048 | .0000 | .0000 |
| - 028 | 0000 | |
| -.024 | | 6029 |
| 000 | 0000 | 7300 |
| 019 | 0000 | |
| .023 | | .0000 |
| .041 | 0000 | |
| 045 | | .3498 |
| 056 | 0000 | |
| 057 | | 3059 |
| .077 | .0000 | |
| 090 | | 2727 |
| 093 | 0000 | |
| .113 | | 1584 |

MACH (3) = 16.060 HAW/HT(2) = .900 RE/FT = 44180-01 PD = 560.00 T0 = 3731.0 H0 = 25.530

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| -.048 | 0000 | 0000 |
| - 028 | 0000 | |
| -.024 | | .5640 |
| .000 | 0000 | .6829 |
| .019 | .0000 | |
| 023 | | .0000 |
| 041 | .0000 | |
| .045 | | .3272 |
| 056 | 0000 | |
| .057 | | 2862 |
| .077 | 0000 | |
| .090 | | .2551 |
| .093 | 0000 | |
| .113 | | .1482 |

OH12/IH21 (CAL HST 173-100) 37 0

WING L.E

(RUGC07)

MACH (3) = 16.060 HAW/HT(3) = 1.000 RE/FT = 44180-01 P0 = 560.00 TO = 3731.0 HO = 25.530

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | 0000 | .0000 |
| - 028 | 0000 | |
| - 024 | | 4996 |
| 000 | .0000 | 6049 |
| 019 | 0000 | |
| 023 | | .0000 |
| 041 | .0000 | |
| .045 | | .2898 |
| 056 | .0000 | |
| 057 | | 2535 |
| 077 | .0000 | |
| 090 | | .2259 |
| 093 | 0000 | |
| 113 | | 1313 |

MACH (4) = 18.310 HAW/HT(1) = .850 RE/FT = .12290-01 P0 = 348.20 TO = 4417.0 HO = 31.290

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | 0000 | 0000 |
| - 028 | .2872 | |
| - 024 | | .4111 |
| 000 | 4552 | .4201 |
| 019 | 3333 | |
| 023 | | .3140 |
| 041 | 2314 | |
| 045 | | .2126 |
| 056 | .0000 | |
| 057 | | 0000 |
| 077 | .0000 | |
| 090 | | .1759 |
| 093 | 0000 | |
| 113 | | .1495 |

OH12/IH21 (CAL HST 173-100) 37 0

WING L.E.

(RUGC07)

MACH (4) = 18.310 HAW/HT(2) = .900 RE/FT = .12290-01 P0 = 348.20 T0 = 4417.0 H0 = 31.290

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| -.048 | .0000 | 0000 |
| -.028 | .2692 | |
| -.024 | | .3854 |
| .000 | .4268 | .3939 |
| .019 | .3125 | |
| .023 | | .2944 |
| .041 | .2169 | |
| .045 | | .1993 |
| .056 | .0000 | |
| .057 | | .0000 |
| .077 | .0000 | |
| .090 | | .1649 |
| .093 | .0000 | |
| .113 | | .1401 |

MACH (4) = 18.310 HAW/HT(3) = 1.000 RE/FT = .12290-01 P0 = 348.20 T0 = 4417.0 H0 = 31.290

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| -.048 | .0000 | 0000 |
| -.028 | .2393 | |
| -.024 | | .3426 |
| .000 | .3793 | .3501 |
| .019 | .2777 | |
| .023 | | .2616 |
| .041 | .1928 | |
| .045 | | .1771 |
| .056 | .0000 | |
| .057 | | .0000 |
| .077 | .0000 | |
| .090 | | .1466 |
| .093 | .0000 | |
| .113 | | .1245 |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC07)

MACH (5) = 19.190 HAW/HT(1) = .850 RE/FT = .44400-01 P0 = 1603.0 T0 = 4644.0 H0 = 33.120

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|------|-------|
| - 048 | 0000 | .0000 |
| - 028 | 4301 | |
| - 024 | | 4483 |
| 000 | 6185 | .4744 |
| 019 | 2971 | |
| 023 | | .3620 |
| 041 | 3541 | |
| 045 | | 2221 |
| 056 | 4031 | |
| 057 | | .2240 |
| 077 | 1591 | |
| 090 | | 1263 |
| 093 | 0876 | |
| 113 | | .1249 |

MACH (5) = 19.190 HAW/HT(2) = .900 RE/FT = .44400-31 P0 = 1603.0 T0 = 4644.0 H0 = 33.120

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | 0000 | 0000 |
| - 028 | .4034 | |
| - 024 | | 4205 |
| 000 | 5801 | 4449 |
| 019 | .2787 | |
| 023 | | .3396 |
| 041 | .3321 | |
| 045 | | 2083 |
| 056 | 3781 | |
| 057 | | 2101 |
| .077 | 1492 | |
| 090 | | .1185 |
| 093 | .0822 | |
| .113 | | .1171 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E. (RUGC07)

MACH (5) = 19.190 HAW/HT (3) = 1.000 RE/FT = .44400-01 PO = 1603.0 TO = 4644 0 HO = 33.120

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

| D | | |
|--------|-------|-------|
| - .048 | .0000 | .0000 |
| -.028 | .3588 | |
| -.024 | | .3740 |
| .000 | .5160 | .3958 |
| .019 | 2479 | |
| .023 | | .3020 |
| .041 | 2954 | |
| .046 | | .1853 |
| 056 | 3363 | |
| 057 | | 1869 |
| .077 | .1327 | |
| .090 | | .1054 |
| .093 | 0731 | |
| .113 | | .1042 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L E

(RUGC08) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = .0000 IN. ALPHA = 5.000 BETA = .000
 LREF = 1290 3000 IN. YMRP = 0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

MACH (1) = 19.180 HAW/HT(1) = 850 RE/FT = .45790-01 PO = 1649 0 TO = 4641 0 HO = 33 120

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D
 - 048 7205 0000
 - 028 .6541
 - 024 .5907
 000 4393 4759
 019 3486
 023 .3444
 041 .2687
 045 2130
 056 .2300
 057 2050
 077 1109
 090 1416
 093 0000
 113 1214

MACH (1) = 19 180 HAW/HT(2) = .900 RE/FT = .45790-01 PO = 1649 0 TO = 4641.0 HO = 33 120

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D
 - 048 6757 0000
 - 028 6135
 - 024 5540
 .000 4120 4464
 .019 3270
 .023 .3230
 041 .2520
 .045 1998
 056 2157
 057 1922
 .077 1040
 .090 1328
 093 .0000
 .113 .1139

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 273

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC08)

MACH (1) = 19 180 HAW/HT(3) = 1 000 RE/FT = .45790-01 P0 = 1649.0 T0 = 4641.0 H0 = 33.120

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

| | | |
|-------|--------|--------|
| Y | 2.8130 | 4.0220 |
| 0 | | |
| -.048 | .6011 | .0000 |
| -.028 | .5457 | |
| -.024 | | .4928 |
| .000 | .3665 | .3971 |
| .019 | .2909 | |
| .023 | | .2873 |
| .041 | .2241 | |
| .045 | | .1777 |
| .056 | .1919 | |
| .057 | | .1710 |
| .077 | .0925 | |
| .090 | | .1181 |
| .093 | .0000 | |
| .113 | | .1013 |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 HING L.E.

(RUGC09) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = 0000 IN.
 LREF = 1290 3000 IN. YMRP = 0000 IN.
 BREF = 1290 3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 10 000 BETA = .000

MACH (1) = 18.360 HAW/HT (1) = 850 RE/FT = 12480-01 P0 = 347.10 T0 = 4373.0 H0 = 30.890

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

D
 - 048 .0000 .0000
 - 028 3444
 - 024 .2604
 .000 .7336 4121
 019 3931
 023 .3579
 .041 .4787
 045 .2862
 056 2798
 057 2596
 077 .3265
 .090 2396
 .093 .1831
 113 1597

MACH (1) = 18.360 HAW/HT (2) = 900 RE/FT = .12480-01 P0 = 347.10 T0 = 4373.0 H0 = 30.890

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

D
 - 048 0000 0000
 - 028 3228
 - 024 2628
 000 6876 .3862
 019 .3665
 .023 3355
 .041 4487
 045 2682
 056 2623
 057 2433
 077 3060
 090 2245
 093 .1716
 113 .1497

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 275

OH12/IH21 (CAL HST 173-100) 37 0 WING L E (RUGC09)

MACH (1) = 18.380 MAW/HT (3) = 1.000 RE/FT = .12480-01 PD = 347.10 TD = 4373.0 HD = 30.890

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | 0000 | 0000 |
| - 028 | .2868 | |
| - 024 | | .2335 |
| 000 | .6110 | .3432 |
| 019 | .3275 | |
| 023 | | 2991 |
| 041 | 3987 | |
| 045 | | 2383 |
| 056 | 2331 | |
| 057 | | .2162 |
| 077 | 2720 | |
| .090 | | 1995 |
| 093 | .1525 | |
| 113 | | .1330 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGG10) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290 3000 IN YMRP = .0000 IN.
 BREF = 1290 3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 25 000 BETA = .000

MACH (1) = 6.973 MAW/HT (1) = .850 RE/FT = 12370 PO = 373.20 TD = 5587.0 HO = 42 320

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE W/HREF

Y 2 8130 4.0220

D
 - 048 2067 1748
 - 028 2942
 - 024 2116
 .000 4447 0000
 .019 7959
 023 0000
 .041 4999
 .045 0000
 .056 4398
 .057 4472
 .077 4261
 .090 3680
 093 3686
 113 3073

MACH (1) = 6.973 MAW/HT (2) = .900 RE/FT = 12370 PO = 373.20 TD = 5587.0 HO = 42 320

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE W/HREF

Y 2 8130 4.0220

D
 - 048 1942 1642
 - 028 2763
 - 024 1988
 .000 4177 0000
 .019 7477
 023 0000
 .041 4696
 .045 0000
 056 4132
 057 4201
 077 4003
 .090 3457
 .093 3462
 .113 2886

OH12/IH21 (CAL HST 173-100) 37 0 WING L E. (RUGC10)

MACH (1) = 8.973 HAW/HT(3) = 1.000 RE/FT = .12370 PO = 373.20 TO = 5587.0 HQ = 42.320

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

| D | | |
|-------|-------|-------|
| -.048 | .1732 | .1464 |
| -.028 | .2465 | |
| -.024 | | .1773 |
| .000 | .3726 | .0000 |
| .019 | .6669 | |
| .023 | | .0000 |
| .041 | .4188 | |
| .045 | | .0000 |
| .056 | .3685 | |
| .057 | | .3747 |
| .077 | .3570 | |
| .090 | | .3083 |
| .093 | .3088 | |
| .113 | | .2574 |

MACH (2) = 7.921 HAW/HT(1) = .850 RE/FT = 7.3310 PO = 2181.0 TO = 1560.0 HQ = 9.9040

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

| D | | |
|-------|--------|--------|
| -.048 | .3722 | .0000 |
| -.028 | .6190 | |
| -.024 | | .4148 |
| .000 | .8107 | .9044 |
| .019 | .0000 | |
| .023 | | 1.1129 |
| .041 | 1.1514 | |
| .045 | | .8431 |
| .056 | .0000 | |
| .057 | | 1.0262 |
| .077 | .0000 | |
| .090 | | .8792 |
| .093 | .0000 | |
| .113 | | .5232 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L E

(RUGC10)

MACH (2) = 7.921 HAW/HT(2) = 900 RE/FT = 7 3310 P0 = 2181 0 T0 = 1560 0 H0 = 9.9040

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

| D | | |
|--------|--------|--------|
| - .048 | 3400 | 0000 |
| - .028 | 5656 | |
| - .024 | | 3790 |
| .000 | 7407 | 8264 |
| .019 | 0000 | |
| .023 | | 1 0168 |
| .041 | 1 0520 | |
| .045 | | 7703 |
| .056 | 0000 | |
| .057 | | 9376 |
| .077 | 0000 | |
| .090 | | 8033 |
| .093 | 0000 | |
| .113 | | 4781 |

MACH (2) = 7.921 HAW/HT(3) = 1 000 RE/FT = 7.3310 P0 = 2181.0 T0 = 1560.0 H0 = 9.9040

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

| D | | |
|--------|------|-------|
| - .048 | 2900 | 0000 |
| - .028 | 4823 | |
| - .024 | | 3232 |
| .000 | 6316 | .7047 |
| .019 | 0000 | |
| .023 | | .8671 |
| .041 | 8971 | |
| .045 | | .6569 |
| .056 | 0000 | |
| .057 | | 7996 |
| .077 | 0000 | |
| .090 | | 6850 |
| .093 | 0000 | |
| .113 | | 4077 |

DATE 16 OCT 75

TABLATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 279

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E

(RUGC10)

MACH (3) = 8 009 HAW/HT(1) = .850 RE/FT = .99780 PO = 900.90 T0 = 2772.0 H0 = 18.130

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

| | | |
|-------|------|-------|
| D | | |
| -.048 | 2408 | .0000 |
| - 028 | 3852 | |
| -.024 | | .2444 |
| .000 | 5453 | 7898 |
| .019 | 6646 | |
| .023 | | 8808 |
| 041 | 6396 | |
| .045 | | .6476 |
| .056 | 5761 | |
| 057 | | .8298 |
| .077 | 4669 | |
| 090 | | .4669 |
| .093 | 0000 | |
| .113 | | .3873 |

MACH (3) = 8 009 HAW/HT(2) = 900 RE/FT = .99780 PO = 900.90 T0 = 2772.0 H0 = 18.130

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

| | | |
|-------|-------|-------|
| D | | |
| - 048 | .2241 | .0000 |
| - 028 | 3586 | |
| -.024 | | .2275 |
| 000 | .5077 | 7353 |
| 019 | 6188 | |
| 023 | | 8200 |
| 041 | .5955 | |
| 045 | | 6029 |
| 056 | .5363 | |
| .057 | | 7725 |
| 077 | 4346 | |
| .090 | | .4346 |
| .093 | .0000 | |
| .113 | | .3419 |

OH12/IH21 (CAL HST 173-100) 37 0

WING L.E.

(RUGG10)

MACH (3) = 8 009 HAW/HT (3) = 1 000 RE/FT = .99780 P0 = 900 90 T0 = 2772 0 H0 = 18 130

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

D

| | | |
|--------|-------|-------|
| - 048 | .1970 | .0000 |
| - 028 | 3151 | |
| - .024 | | .1999 |
| 000 | .4461 | 6461 |
| 019 | 5437 | |
| 023 | | 7205 |
| 041 | 5232 | |
| 045 | | .5297 |
| .056 | 4713 | |
| 057 | | 6788 |
| 077 | 3819 | |
| 090 | | 3819 |
| 093 | .0000 | |
| 113 | | .3005 |

MACH (4) = 10 450 HAW/HT (1) = 850 RE/FT = 91170 P0 = 2714 0 T0 = 3466.0 H0 = 23.370

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | 5403 | 0000 |
| - 028 | 4755 | |
| - 024 | | 4076 |
| 000 | 7692 | 9072 |
| 019 | 6737 | |
| 023 | | 0000 |
| 041 | 5506 | |
| 045 | | .6642 |
| 056 | 5204 | |
| .057 | | 8945 |
| 077 | .3919 | |
| .090 | | 4509 |
| 093 | 0000 | |
| 113 | | 0000 |

DATE 15 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 281

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(RUGC10)

MACH (4) = 10.450 HAW/HT(2) = .900 RE/FT = .91170 P0 = 2714.0 T0 = 3466.0 H0 = 23.370

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|--------|-------|-------|
| - .048 | .5049 | .0000 |
| -.028 | .4444 | |
| -.024 | | 3809 |
| .000 | .7375 | 8478 |
| .019 | .6296 | |
| .023 | | 0000 |
| .041 | .5145 | |
| .045 | | .6207 |
| .056 | .4863 | |
| .057 | | 8359 |
| .077 | .3662 | |
| .090 | | 4213 |
| .093 | .0000 | |
| .113 | | .0000 |

MACH (4) = 10.450 HAW/HT(3) = 1.000 RE/FT = .91170 P0 = 2714.0 T0 = 3466.0 H0 = 23.370

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| -.048 | .4464 | 0000 |
| -.028 | .3929 | |
| -.024 | | 3367 |
| .000 | .6521 | .7496 |
| .019 | .5567 | |
| .023 | | .0000 |
| .041 | .4549 | |
| .045 | | .5488 |
| .056 | .4299 | |
| .057 | | .7391 |
| .077 | .3238 | |
| .090 | | .3725 |
| .093 | .0000 | |
| .113 | | 0000 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC10)

MACH (5) = 12 220 HAW/HT(1) = 850 RE/FT = 26170 PO = 1591 0 TO = 3838 0 HO = 26 430

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

| | | |
|-------|--------|--------|
| Y | 2.8130 | 4.0220 |
| ~ | | |
| D | | |
| -.048 | .3351 | .0000 |
| -.028 | .5772 | |
| -.024 | | .1789 |
| 000 | .6228 | 3493 |
| .019 | 6902 | |
| .023 | | .0000 |
| .041 | 5170 | |
| .045 | | 2953 |
| .056 | 5682 | |
| .057 | | .3545 |
| .077 | .3549 | |
| .090 | | .2076 |
| .093 | 0000 | |
| 113 | | 3988 |

MACH (5) = 12 220 HAW/HT(2) = 900 RE/FT = 26170 PO = 1591.0 TO = 3838 0 HO = 26 430

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

| | | |
|-------|--------|--------|
| Y | 2.8130 | 4.0220 |
| D | | |
| -.048 | .3137 | .0000 |
| -.028 | .5403 | |
| -.024 | | 1674 |
| 000 | 5830 | .3270 |
| .019 | 6460 | |
| .023 | | .0000 |
| .041 | 4839 | |
| .045 | | .2764 |
| .056 | .5318 | |
| .057 | | .3318 |
| .077 | .3322 | |
| .090 | | 1944 |
| .093 | 0000 | |
| 113 | | 3732 |

OH12/1H21 (CAL HST 173-100) 37 0 WING L.E. (RUGC10)

MACH (5) = 12.220 HAW/HT(3) = 1 000 RE/FT = 26170 PO = 1591.0 T0 = 3838 0 H0 = 26.430

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|--------|-------|-------|
| - .048 | 2781 | .0000 |
| - .028 | 4789 | |
| - .024 | | 1484 |
| 000 | 5168 | .2899 |
| 019 | .5726 | |
| 023 | | 0000 |
| 041 | .4289 | |
| 045 | | 2450 |
| 056 | 4714 | |
| 057 | | 2941 |
| 077 | 2945 | |
| 090 | | 1723 |
| 093 | 0000 | |
| 113 | | 3309 |

MACH (6) = 16.020 HAW/HT(1) = .850 RE/FT = .44700-01 PO = 565.60 T0 = 3735.0 H0 = 25 590

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|--------|-------|-------|
| - 048 | 2600 | .0000 |
| - .028 | .3997 | |
| - .024 | | 2424 |
| 000 | 5245 | .5753 |
| 019 | .4495 | |
| 023 | | .0000 |
| 041 | .4348 | |
| .045 | | 4948 |
| 056 | 4594 | |
| 057 | | 5736 |
| .077 | 4832 | |
| 090 | | .4348 |
| 093 | 0000 | |
| 113 | | .3374 |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L E. (RUGC10)

MACH (6) = 16.920 HAW/HT (2) * 900 RE/FT = 44700-01 PO = 565.60 TO = 3735 0 HO = 25 590

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|--------|-------|-------|
| - 048 | 2433 | 0000 |
| - 028 | .3739 | |
| - .024 | | 2268 |
| 000 | 4907 | .5382 |
| .019 | 4205 | |
| 023 | | 0000 |
| 041 | 4058 | |
| 045 | | 4629 |
| .056 | 4298 | |
| .057 | | 5366 |
| .077 | 4521 | |
| 090 | | 4068 |
| 093 | 0000 | |
| .113 | | 3157 |

MACH (6) = 16.020 HAW/HT (3) = 1.000 RE/FT = 44700-01 PO = 565.60 TO = 3735 0 HO = 25 590

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|-------|-------|-------|
| - 048 | 2155 | 0000 |
| - 028 | 3313 | |
| - 024 | | 2009 |
| 000 | .4347 | 4768 |
| 019 | 3725 | |
| 023 | | .0000 |
| 041 | 3604 | |
| 045 | | 4101 |
| 056 | 3807 | |
| .057 | | .4754 |
| 077 | 4005 | |
| 090 | | .3604 |
| 093 | .0000 | |
| 113 | | 2796 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC10)

MACH (7) = 19 180 HAW/HT(1) = 850 RE/FT = 44510-01 PO = 1618 0 TO = 4658 0 HO = 33.250

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|-------|-------|-------|
| - 048 | .0000 | 0000 |
| - 028 | .6406 | |
| - 024 | | 2210 |
| .000 | 3950 | .3755 |
| 019 | .4144 | |
| 023 | | 5052 |
| 041 | 3532 | |
| 045 | | 4465 |
| 056 | .3346 | |
| 057 | | 4688 |
| 077 | .0000 | |
| 090 | | .3980 |
| 093 | .3325 | |
| 113 | | .3085 |

MACH (7) = 19 180 HAW/HT(2) = .900 RE/FT = .44510-01 PO = 1618.0 TO = 4658 0 HO = 33 250

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|-------|-------|-------|
| -.048 | .0000 | 0000 |
| - 028 | .6008 | |
| -.024 | | .2073 |
| .000 | .3705 | 3522 |
| .019 | .3887 | |
| .023 | | .4738 |
| .041 | .3313 | |
| .045 | | .4188 |
| .056 | .3138 | |
| .057 | | .4397 |
| .077 | 0000 | |
| 090 | | .3733 |
| .093 | .3119 | |
| .113 | | 2893 |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 286

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC10)

MACH (7) = 19.180 HAW/HT(3) = 1 000 RE/FT = 44510-01 P0 = 1618.0 T0 = 4658.0 H0 = 33 250

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|-------|-------|-------|
| - 048 | 0000 | 0000 |
| - 028 | 5344 | |
| - 024 | | .1844 |
| 000 | .3296 | .3133 |
| 019 | 3457 | |
| 023 | | 4215 |
| .041 | .2947 | |
| 045 | | 3725 |
| .056 | 2791 | |
| 057 | | 3911 |
| .077 | 0000 | |
| 090 | | .3320 |
| .093 | 2774 | |
| .113 | | .2574 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC11) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290 3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 30 000 BETA = .000

MACH (1) = 7.011 MAW/HT (1) = 850 RE/FT = .13080 PO = 370.80 TO = 5426.0 HO = 40.760

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

D
 -.048 .0000 0000
 -.028 .2709
 -.024 .1710
 .000 4629 5509
 .019 .5256
 .023 6086
 .041 .6713
 .045 5033
 .056 .4095
 .057 6494
 .077 6317
 .090 3845
 .093 .3330
 .113 3042

MACH (1) = 7.011 MAW/HT (2) = .900 RE/FT = .13080 PO = 370.80 TO = 5426 0 HO = 40.760

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D
 -.048 0000 .0000
 -.028 .2544
 -.024 .1606
 .000 .4348 5174
 .019 .4936
 .023 .5716
 .041 .6305
 .045 .4727
 .056 .3846
 .057 .6099
 .077 .5933
 .090 .3611
 .093 .3128
 .113 .2857

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(RUGC11)

MACH (1) = 7 011 HAW/HT(3) = 1 000 RE/FT = .13080 P0 = 370 80 T0 = 5426 0 H0 = 40 760

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|-------|-------|-------|
| -.048 | 0000 | 0000 |
| -.028 | 2269 | |
| -.024 | | 1432 |
| .000 | .3876 | 4614 |
| .019 | 4401 | |
| .023 | | 5097 |
| .041 | 5621 | |
| .045 | | .4214 |
| .056 | 3429 | |
| .057 | | 6438 |
| .077 | 5290 | |
| .090 | | 3220 |
| .093 | 2789 | |
| .113 | | 2548 |

MACH (2) = 7 890 HAW/HT(1) = 850 RE/FT = 75740 P0 = 782 80 T0 = 3018 0 H0 = 19 990

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|-------|-------|-------|
| -.048 | 3025 | 0000 |
| -.028 | .3005 | |
| -.024 | | .1585 |
| .000 | 5427 | 6431 |
| .019 | 5698 | |
| .023 | | 7507 |
| .041 | .6515 | |
| .045 | | .5048 |
| .056 | .5854 | |
| .057 | | 6552 |
| .077 | 5957 | |
| .090 | | .5774 |
| .093 | .3950 | |
| .113 | | 3395 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC11)

MACH (2) = 7.890 HAW/HT (2) = .900 RE/FT = 75740 P0 = 782.80 T0 = 3018.0 H0 = 19.990

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

D

| | | |
|-------|-------|-------|
| - 048 | 2822 | 0000 |
| - 028 | 2803 | |
| - 024 | | .1478 |
| 000 | 5061 | .5997 |
| 019 | 5314 | |
| 023 | | 7001 |
| 041 | 6076 | |
| 045 | | 4708 |
| 056 | .5460 | |
| 057 | | 6111 |
| 077 | 5555 | |
| 090 | | 5385 |
| 093 | .3683 | |
| .113 | | .3167 |

MACH (2) = 7.890 HAW/HT (3) = 1.000 RE/FT = 75740 P0 = 782.80 T0 = 3018.0 H0 = 19.990

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

D

| | | |
|--------|-------|-------|
| - .048 | .2486 | 0000 |
| - 028 | 2470 | |
| - 024 | | 1302 |
| .000 | .4460 | .5285 |
| 019 | .4683 | |
| 023 | | .6169 |
| 041 | 5354 | |
| 045 | | .4149 |
| 056 | .4811 | |
| 057 | | 5385 |
| 077 | 4886 | |
| .090 | | .4745 |
| .093 | .3246 | |
| .113 | | 2790 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L E (RUGC11)

MACH (3) = 7.922 HAW/HT(1) = 850 RE/FT = 7.5500 P0 = 2310.0 T0 = 1591 0 H0 = 10 090

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

| D | | |
|-------|--------|--------|
| -.048 | 3165 | 0000 |
| -.028 | 7045 | |
| -.024 | | 2791 |
| .000 | 1 0631 | .7211 |
| .019 | 0000 | |
| .023 | | 1.0715 |
| .041 | 1 4900 | |
| .045 | | .9059 |
| .056 | 0000 | |
| .057 | | 1 6088 |
| .077 | 1 0141 | |
| .090 | | 1.3323 |
| .093 | 9892 | |
| .113 | | 1 0370 |

MACH (3) = 7.922 HAW/HT(2) = 850 RE/FT = 7.5500 P0 = 2310 0 T0 = 1591 0 H0 = 10 090

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

| D | | |
|-------|--------|--------|
| - 048 | .2895 | 0000 |
| -.028 | .6444 | |
| - 024 | | 2553 |
| 000 | 9724 | 6596 |
| .019 | 0000 | |
| 023 | | 9801 |
| .041 | 1 3629 | |
| 045 | | .8286 |
| 056 | .0000 | |
| 057 | | 1 4716 |
| 077 | .9276 | |
| 090 | | 1 2186 |
| .093 | 9048 | |
| 113 | | 9486 |

OH12/IH21 (CAL HST 173-100) 37 0 HING L.E.

(RUGC11)

MACH (3) = 7 922 HAW/HT (3) = 1 000 RE/FT = 7.5500 PO = 2310.0 T0 = 1591.0 H0 = 10 090

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|--------|--------|--------|
| - .048 | 2473 | 0000 |
| - .028 | .5505 | |
| -.024 | | .2181 |
| 000 | 8307 | 5635 |
| 019 | 0000 | |
| 023 | | .8373 |
| .041 | 1.1643 | |
| .045 | | 7079 |
| .056 | .0000 | |
| .057 | | 1.2572 |
| 077 | .7924 | |
| 090 | | 1 0411 |
| 093 | 7730 | |
| 113 | | 8104 |

MACH (4) = 10 520 HAW/HT (1) = .850 RE/FT = 1.0520 PO = 2686.0 T0 = 3202.0 H0 = 21.360

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| -.048 | 3161 | .0000 |
| -.028 | 4008 | |
| -.024 | | .2470 |
| 000 | 0000 | .7044 |
| .019 | .0000 | |
| 023 | | .0000 |
| 041 | .5452 | |
| .045 | | .6770 |
| 056 | .5608 | |
| 057 | | .7944 |
| .077 | 0000 | |
| .090 | | .4737 |
| .093 | .0000 | |
| .113 | | .4463 |

OH12/IH21 (CAL HST 173-100) 37 0 KING L.E.

(RUOC11)

MACH (4) = 10 520 HAW/HT (2) = .900 RE/FT = 1.0520 P0 = 2686.0 T0 = 3202.0 H0 = 21.360

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | .2951 | .0000 |
| -.028 | 3742 | |
| -.024 | | 2306 |
| .000 | .0000 | .6576 |
| 019 | .0000 | |
| 023 | | 0000 |
| 041 | 5090 | |
| 045 | | 6320 |
| 056 | 5234 | |
| 057 | | .7417 |
| .077 | 0000 | |
| 090 | | 4422 |
| 093 | .0000 | |
| 113 | | .4167 |

MACH (4) = 10 520 HAW/HT (3) = 1 000 RE/FT = 1.0520 P0 = 2686.0 T0 = 3202 0 H0 = 21.360

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | 2605 | .0000 |
| -.028 | 3303 | |
| -.024 | | .2035 |
| .000 | 0000 | .5805 |
| 019 | 0000 | |
| 023 | | 0000 |
| .041 | 4493 | |
| 045 | | 5579 |
| 056 | 4620 | |
| 057 | | 6547 |
| 077 | .0000 | |
| 090 | | .3903 |
| .093 | 0000 | |
| 113 | | .3678 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC11)

MACH (5) = 12.200 HAW/HT(1) = .850 RE/FT = .25390 P0 = 1613.0 T0 = 3922.0 H0 = 27.090

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

| | | |
|-------|-------|-------|
| D | | |
| -.048 | 2702 | .0000 |
| -.028 | .4392 | |
| -.024 | | .2560 |
| .000 | 4931 | .6109 |
| .019 | .5911 | |
| .023 | | 0000 |
| .041 | .3938 | |
| .045 | | .5787 |
| .056 | .4958 | |
| .057 | | .6564 |
| .077 | .3467 | |
| .090 | | .4102 |
| .093 | .0000 | |
| .113 | | .3767 |

MACH (5) = 12.200 HAW/HT(2) = 900 RE/FT = .25390 P0 = 1613 0 T0 = 3922.0 H0 = 27 090

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

| | | |
|-------|-------|-------|
| D | | |
| -.048 | 2529 | 0000 |
| -.028 | 4112 | |
| -.024 | | 2397 |
| .000 | .4616 | .5719 |
| .019 | .5533 | |
| .023 | | .0000 |
| .041 | .3686 | |
| .045 | | 5418 |
| .056 | 4642 | |
| .057 | | 6144 |
| .077 | 3246 | |
| .090 | | .3840 |
| .093 | .0000 | |
| .113 | | .3526 |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L E

(RUGC11)

MACH (5) = 12 200 HAW/HT(3) = 1 000 RE/FT = 25390 P0 = 1613 0 T0 = 3922 0 H0 = 27 090

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | 2243 | 0000 |
| - 028 | .3646 | |
| - 024 | | .2125 |
| 000 | 4093 | .5071 |
| 019 | .4907 | |
| 023 | | .0000 |
| .041 | .3269 | |
| 045 | | 4804 |
| .056 | .4116 | |
| 057 | | .5449 |
| 077 | .2878 | |
| 090 | | 3405 |
| 093 | .0000 | |
| 113 | | 3127 |

MACH (6) = 16 070 HAW/HT(1) = .850 RE/FT = 45820-01 P0 = 560.60 T0 = 3667 0 H0 = 25.040

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | .2958 | .0000 |
| - 028 | .4229 | |
| - 024 | | .1957 |
| 000 | .4978 | .4584 |
| 019 | 5039 | |
| .023 | | 0000 |
| .041 | .0000 | |
| 045 | | 5298 |
| 056 | .0000 | |
| .057 | | 6498 |
| 077 | .5504 | |
| 090 | | 3874 |
| 093 | .0000 | |
| 113 | | .3782 |

OH12/1H21 (CAL HST 173-100) 37 0 WING L E.

(RUGC11)

MACH (6) = 16.070 HAW/HT(2) = 900 RE/FT = 45820-01 P0 = 560 60 T0 = 3667.0 HQ = 25 040

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|-------|------|-------|
| - 048 | 2767 | 0000 |
| - 028 | 3956 | |
| - 024 | | .1831 |
| 000 | 4657 | 4286 |
| 019 | 4713 | |
| 023 | | 0000 |
| .041 | 0000 | |
| 045 | | 4955 |
| 056 | 0000 | |
| 057 | | 6078 |
| .077 | 5148 | |
| 090 | | 3624 |
| 093 | 0000 | |
| 113 | | .3537 |

MACH (6) = 16.070 HAW/HT(3) = 1.000 RE/FT = 45820-01 P0 = 560 60 T0 = 3667.0 HQ = 25 040

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|--------|-------|-------|
| - 048 | .2450 | .0000 |
| - .028 | 3503 | |
| - 024 | | .1621 |
| 000 | .4124 | .3797 |
| 019 | 4174 | |
| 023 | | .0000 |
| 041 | .0000 | |
| 045 | | .4388 |
| 056 | .0000 | |
| 057 | | 5382 |
| 077 | .4559 | |
| 090 | | .3209 |
| .093 | .0000 | |
| 113 | | 3132 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(RUGC11)

MACH (7) = 19 150 HAW/HT(1) = 850 RE/FT = 43340-01 P0 = 1643 0 T0 = 4746 0 H0 = 33 960

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | .3745 | .0000 |
| - 028 | 4563 | |
| -.024 | | 1414 |
| .000 | 3116 | 3803 |
| .019 | .4618 | |
| .023 | | 4917 |
| .041 | 3565 | |
| .045 | | 4476 |
| .056 | .3605 | |
| .057 | | 5004 |
| .077 | 0000 | |
| .090 | | 3153 |
| .093 | .0000 | |
| .113 | | 2969 |

MACH (7) = 19 150 HAW/HT(2) = .900 RE/FT = .43340-01 P0 = 1643.0 T0 = 4746.0 H0 = 33.960

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|-------|-------|-------|
| - 048 | 3512 | 0000 |
| - 028 | 4280 | |
| - 024 | | 1326 |
| .000 | 2923 | 3568 |
| .019 | 4332 | |
| .023 | | .4612 |
| .041 | 3344 | |
| .045 | | .4199 |
| .056 | 3381 | |
| .057 | | .4694 |
| .077 | .0000 | |
| .090 | | .2957 |
| .093 | .0000 | |
| .113 | | 2785 |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 297

OH12/IH21 (CAL HST 173-100) 37 0 WING L E (RUGC11)

MACH (7) = 19.150 HAW/HT(3) = 1.000 RE/FT = 43340-01 P0 = 1643 0 T0 = 4746 0 H0 = 33 960

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

| D | | |
|-------|-------|-------|
| -.048 | .3125 | .0000 |
| -.028 | .3808 | |
| -.024 | | .1180 |
| .000 | .2600 | .3174 |
| .019 | .3854 | |
| .023 | | .4103 |
| .041 | .2976 | |
| .045 | | .3735 |
| .056 | .3008 | |
| .057 | | .4176 |
| .077 | .0000 | |
| .090 | | .2631 |
| .093 | .0000 | |
| .113 | | .2478 |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC12) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = 0000 IN.
 LREF = 1290 3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 35.000 BETA = 000

MACH (1) = 6.993 HAW/HT(1) = 850 RE/FT = .12520 P0 = 363 90 T0 = 5492.0 H0 = 41.400

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D
 - .048 .0000 0000
 - .028 .2648
 - .024 1268
 .000 .5612 6380
 .019 .5906
 .023 6537
 .041 9259
 .045 .5482
 .056 .6797
 .057 .6797
 .077 7149
 .090 .3759
 .093 .4859
 .113 .3535

MACH (1) = 6.993 HAW/HT(2) = .900 RE/FT = .12520 P0 = 363 90 T0 = 5492.0 H0 = 41.400

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D
 - .048 .0000 .0000
 - .028 2488
 - .024 1191
 .000 .5271 .5993
 .019 5548
 .023 6140
 .041 8697
 .045 .5149
 .056 6384
 .057 6384
 .077 6715
 .090 3531
 .093 4564
 .113 .3321

OH12/IH21 (CAL HST 173-100) 37 0 WING L E (RUGC12)

MACH (1) = 6.993 HAW/HT(3) = 1.000 RE/FT = .12520 P0 = 363.90 T0 = 5492.0 H0 = 41.400

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|--------|-------|-------|
| - .048 | .0000 | 0000 |
| - .028 | 2218 | |
| - .024 | | .1062 |
| .000 | 4701 | 5344 |
| .019 | .4947 | |
| .023 | | 5476 |
| .041 | 7755 | |
| .045 | | 4592 |
| .056 | .5693 | |
| .057 | | 5693 |
| .077 | .5988 | |
| .090 | | 3149 |
| .093 | 4070 | |
| .113 | | 2961 |

MACH (2) = 7.922 HAW/HT(1) = .850 RE/FT = 7.5700 P0 = 2199.0 T0 = 1538.0 H0 = 9.7660

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|--------|--------|--------|
| - .048 | 3438 | 0000 |
| - .028 | .4814 | |
| - .024 | | 1664 |
| .000 | 1.1330 | 5439 |
| .019 | 1.2743 | |
| .023 | | 1.1027 |
| .041 | 2.0068 | |
| .045 | | 1.2290 |
| .056 | 0000 | |
| .057 | | 1.5929 |
| .077 | 1.7086 | |
| .090 | | .0000 |
| .093 | 1.5737 | |
| .113 | | .9933 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E (RUGC12)

MACH (2) = 7.922 HAW/HT(2) = .900 RE/FT = 7 5700 P0 = 2199.0 T0 = 1538.0 H0 = 9.7660

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

D

| | | |
|-------|--------|--------|
| - 048 | 3140 | .0000 |
| - 028 | .4397 | |
| - 024 | | 1520 |
| 000 | 1.0348 | 4967 |
| 019 | 1 1639 | |
| 023 | | 1.0072 |
| 041 | 1 8329 | |
| 045 | | 1.1225 |
| .056 | .0000 | |
| 057 | | 1.4549 |
| 077 | 1 5606 | |
| 090 | | .0000 |
| 093 | 1 4373 | |
| .113 | | .9072 |

MACH (2) = 7.922 HAW/HT(3) = 1 000 RE/FT = 7.5700 P0 = 2199.0 T0 = 1538.0 H0 = 9.7660

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|--------|--------|--------|
| - 048 | 2676 | .0000 |
| - .028 | 3748 | |
| - .024 | | .1296 |
| 000 | .8820 | 4234 |
| .019 | 9921 | |
| .023 | | .8564 |
| 041 | 1 5622 | |
| 045 | | .9568 |
| 056 | 0000 | |
| 057 | | 1 2401 |
| 077 | 1.3301 | |
| 090 | | .0000 |
| 093 | 1.2251 | |
| 113 | | .7733 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC12)

MACH (3) = 8.058 HAW/HT (1) = 850 RE/FT = 1.1090 P0 = 894.80 T0 = 2594.0 H0 = 16.850

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

| | | |
|--------|--------|-------|
| D | | |
| - .048 | 2891 | .0000 |
| - .028 | 3208 | |
| - .024 | | .1811 |
| .000 | .7664 | .2505 |
| .019 | .6694 | |
| .023 | | 3488 |
| .041 | 1.0180 | |
| .045 | | .6995 |
| .056 | .0000 | |
| .057 | | 8251 |
| .077 | 8983 | |
| .090 | | .6591 |
| .093 | .5676 | |
| .113 | | 4430 |

MACH (3) = 8.058 HAW/HT (2) = .900 RE/FT = 1.1090 P0 = 894.80 T0 = 2594.0 H0 = 16.850

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

| | | |
|--------|-------|-------|
| D | | |
| - .048 | 2688 | .0000 |
| - .028 | 2983 | |
| - .024 | | 1684 |
| .000 | .7127 | .2330 |
| .019 | .6224 | |
| .023 | | 3244 |
| .041 | .9466 | |
| .045 | | .6504 |
| .056 | 0000 | |
| .057 | | .7672 |
| .077 | .8353 | |
| .090 | | 6129 |
| .093 | .5278 | |
| .113 | | .4119 |

ORIGINAL PAGE
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC12)

MACH (3) = 8.058 HAW/HT(3) = 1.000 RE/FT = 1.1090 P0 = 894.80 T0 = 2594 0 H0 = 16.850

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

D

| | | |
|-------|-------|-------|
| - 048 | 2357 | 0000 |
| - 028 | .2616 | |
| - 024 | | 1477 |
| 000 | 6250 | .2043 |
| 019 | .5458 | |
| .023 | | 2845 |
| 041 | .8302 | |
| 045 | | 5704 |
| 056 | .0000 | |
| 057 | | .6728 |
| 077 | .7325 | |
| 090 | | .5375 |
| 093 | 4628 | |
| 113 | | 3612 |

MACH (4) = 10.730 HAW/HT(1) = .850 RE/FT = 1.9260 P0 = 3618.0 T0 = 2727 0 H0 = 17.750

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

D

| | | |
|-------|-------|-------|
| - 048 | .3157 | 0000 |
| - 028 | 5678 | |
| - 024 | | .3386 |
| 000 | .6218 | .7214 |
| 019 | .7082 | |
| 023 | | 0000 |
| .041 | 5289 | |
| 045 | | 6259 |
| .056 | 5907 | |
| .057 | | 7986 |
| .077 | .4577 | |
| .090 | | 4818 |
| .093 | .0000 | |
| .113 | | .4272 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E (RUGC12)

MACH (4) = 10.730 HAW/HT(2) = .900 RE/FT = 1.9260 P0 = 3618.0 T0 = 2727.0 H0 = 17.750

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| -.048 | .2938 | 0000 |
| -.028 | .5285 | |
| -.024 | | .3151 |
| .000 | .5787 | 6715 |
| .019 | .6591 | |
| .023 | | .0000 |
| .041 | .4923 | |
| .045 | | .5826 |
| .056 | .5498 | |
| .057 | | 7433 |
| .077 | 4260 | |
| .090 | | 4484 |
| .093 | 0000 | |
| .113 | | 3976 |

MACH (4) = 10.730 HAW/HT(3) = 1.000 RE/FT = 1.9260 P0 = 3618.0 T0 = 2727.0 H0 = 17.750

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| -.048 | .2581 | .0000 |
| -.028 | .4642 | |
| -.024 | | .2768 |
| .000 | .5084 | .5898 |
| .019 | .5790 | |
| .023 | | 0000 |
| .041 | .4325 | |
| .045 | | .5118 |
| .056 | 4830 | |
| .057 | | 6530 |
| .077 | .3742 | |
| .090 | | .3939 |
| .093 | .0000 | |
| .113 | | .3493 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(RUGC12)

MACH (5) = 12.230 HAW/HT(1) = .850 RE/FT = .26590 PO = 1621 0 T0 = 3839 0 H0 = 26.440

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | 3676 | .0000 |
| - 028 | .4299 | |
| - 024 | | .1945 |
| .000 | .7477 | 4638 |
| .019 | .5695 | |
| .023 | | .0000 |
| .041 | 6514 | |
| .045 | | .5505 |
| .056 | .4981 | |
| .057 | | .7308 |
| .077 | .6138 | |
| .090 | | .4256 |
| .093 | 0000 | |
| .113 | | 3977 |

MACH (5) = 12.230 HAW/HT(2) = 900 RE/FT = 26590 PO = 1621 0 T0 = 3839 0 H0 = 26.440

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | 3441 | 0000 |
| - 028 | 4024 | |
| - 024 | | .1820 |
| .000 | 6999 | .4341 |
| .019 | 5330 | |
| .023 | | 0000 |
| .041 | .6097 | |
| .045 | | .5153 |
| .056 | .4662 | |
| .057 | | 6840 |
| .077 | .5745 | |
| .090 | | 3984 |
| .093 | 0000 | |
| .113 | | .3722 |

OH12/IH21 (CAL HST 173-100) 37 0

WING L E.

(RUGC12)

MACH (5) = 12.230 HAW/HT(3) = 1 000 RE/FT = 26590 P0 = 1621 0 T0 = 3839 0 H0 = 26 440

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

| | | |
|-------|-------|-------|
| D | | |
| - 048 | 3050 | 0000 |
| - 028 | .3567 | |
| - 024 | | .1614 |
| 000 | .6204 | 3648 |
| 019 | .4725 | |
| 023 | | 0000 |
| 041 | 5405 | |
| 045 | | .4568 |
| .056 | 4133 | |
| 057 | | .6063 |
| 077 | 5093 | |
| 090 | | .3531 |
| 093 | 0000 | |
| 113 | | 3299 |

MACH (6) = 15 960 HAW/HT(1) = 850 RE/FT = 43170-01 P0 = 536.10 T0 = 3720.0 H0 = 25,490

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

| | | |
|--------|-------|-------|
| D | | |
| - 048 | .3333 | 0000 |
| - 028 | .4910 | |
| - .024 | | 1744 |
| .000 | .6245 | 4109 |
| 019 | 5763 | |
| .023 | | 0000 |
| 041 | 6804 | |
| 045 | | 5606 |
| 056 | .5303 | |
| 057 | | 6153 |
| 077 | .7176 | |
| 090 | | 4471 |
| .093 | 0000 | |
| .113 | | .3820 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC12)

MACH (6) = 15.960 HAW/HT (2) = 900 RE/FT = .43170-01 PO = 536.10 TO = 3720.0 HO = 25.490

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

D

| | | |
|-------|-------|-------|
| - 048 | .3119 | 0000 |
| -.028 | .4593 | |
| - 024 | | 1632 |
| .000 | .7714 | 3844 |
| .019 | .5392 | |
| .023 | | 0000 |
| 041 | .6366 | |
| 045 | | 5245 |
| .056 | 4962 | |
| 057 | | 5756 |
| 077 | 6714 | |
| .090 | | .4183 |
| .093 | 0000 | |
| .113 | | 3574 |

MACH (6) = 15.960 HAW/HT (3) = 1.000 RE/FT = .43170-01 PO = 536.10 TO = 3720.0 HO = 25.490

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

D

| | | |
|-------|------|-------|
| - 048 | 2763 | 0000 |
| -.028 | 4069 | |
| - 024 | | .1446 |
| .000 | 6834 | .3405 |
| 019 | 4776 | |
| 023 | | 0000 |
| 041 | 5639 | |
| 045 | | .4646 |
| .056 | 4395 | |
| .057 | | .5100 |
| 077 | 5948 | |
| 090 | | 3706 |
| .093 | 0000 | |
| 113 | | .3166 |

OH12/IH21 (CAL HST 173-100) 37 0

WING L.E.

(RUGC12)

MACH (7) = 19.160 HAW/HT(1) = .850 RE/FT = .44730-01 PO = 1704.0 TO = 4753.0 HO = 34.030

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

D

| | | |
|-------|-------|-------|
| - 048 | 3280 | .0000 |
| - 028 | .5076 | |
| - 024 | | .1147 |
| .000 | .6094 | 3064 |
| 019 | .4371 | |
| .023 | | .3868 |
| .041 | 5479 | |
| 045 | | 4517 |
| 056 | 3863 | |
| 057 | | .5052 |
| 077 | .5807 | |
| 090 | | 4442 |
| 093 | 0000 | |
| .113 | | .3038 |

MACH (7) = 19.160 HAW/HT(2) = .900 RE/FT = .44730-01 PO = 1704.0 TO = 4753.0 HO = 34.030

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

D

| | | |
|-------|------|-------|
| -.048 | 3077 | .0000 |
| - 028 | 4761 | |
| - 024 | | .1076 |
| .000 | 5716 | 2874 |
| 019 | 4100 | |
| .023 | | .3628 |
| 041 | 5139 | |
| .045 | | .4237 |
| 056 | 3624 | |
| .057 | | .4739 |
| .077 | 5447 | |
| .090 | | .4167 |
| .093 | 0000 | |
| .113 | | .2850 |

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 308

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E. (RUGC12)

MACH (7) = 19.160 HAW/HT(3) = 1 000 RE/FT = .44730-01 P0 = 1704.0 T0 = 4753.0 H0 = 34 030

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D
- 048 2738 0000
- 028 .4236
- 024 0957
.000 .5086 2557
019 .3648
023 3228
.041 .4573
045 3770
056 3224
057 .4217
077 .4846
090 .3707
093 .0000
113 .2536

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 309

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(RUCC13) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = 0000 IN.
 LREF = 1290 3000 IN. YMRP = 0000 IN.
 BREF = 1290 3000 IN. ZMRP = 0000 IN.
 SCALE = 1000

ALPHA = 40 000 BETA = .000

MACH (1) = 7 921 HAW/HT(1) = 850 RE/FT = 7 4790 PO = 2300.0 TO = 1596 0 HO = 10 120

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D
 - 048 .2425 .0000
 - 028 .4094
 - 024 .1261
 .000 .7948 .4736
 .019 .0000
 .023 .8982
 041 1 4035
 045 1.1104
 056 .0000
 057 1 5537
 077 1 4696
 090 1.0778
 093 1 5169
 113 1.0946

MACH (1) = 7 921 HAW/HT(2) = 900 RE/FT = 7.4790 PO = 2300 0 TO = 1596.0 HO = 10.120

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

D
 -.048 2218 .0000
 - 028 3745
 -.024 .1153
 .000 7271 4332
 .019 0000
 .023 8216
 041 1 2839
 045 1 0157
 056 0000
 057 1 4213
 .077 1.3444
 090 9860
 093 1.3875
 113 1.0013

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 310

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC13)

MACH (1) = 7.921 HAW/HT(3) = 1 000 RE/FT = 7 4790 P0 = 2300 0 T0 = 1596 0 H0 = 10 120

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

D

| | | |
|-------|--------|--------|
| -.048 | .1895 | 0000 |
| -.028 | .3200 | |
| -.024 | | .0985 |
| 000 | .6212 | .3701 |
| 019 | .0000 | |
| .023 | | 7020 |
| 041 | 1.0969 | |
| 045 | | 8678 |
| 056 | .0000 | |
| .057 | | 1 2143 |
| 077 | 1 1486 | |
| .090 | | 8424 |
| 093 | 1 1856 | |
| .113 | | 8555 |

MACH (2) = 8 024 HAW/HT(1) = 850 RE/FT = 1.0600 P0 = 921.50 T0 = 2712.0 H0 = 17.700

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|-------|--------|--------|
| -.048 | 2064 | .0000 |
| -.028 | 3246 | |
| -.024 | | .0984 |
| 000 | 6445 | 5398 |
| 019 | 8954 | |
| .023 | | 1.1617 |
| .041 | 7897 | |
| .045 | | .8574 |
| .056 | 0000 | |
| .057 | | 1.0108 |
| 077 | 1.1105 | |
| 090 | | .6638 |
| .093 | .8846 | |
| .113 | | .6004 |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 311

OH12/IH21 (CAL HST 173-100) 37 0 WING L E

(RUGC13)

MACH (2) = 8.024 HAW/HT (2) = 900 RE/FT = 1.0600 P0 = 921.50 T0 = 2712.0 H0 = 17.700

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

| | | |
|--------|--------|--------|
| D | | |
| - .048 | 1921 | .0000 |
| - .028 | 3021 | |
| - .024 | | .0915 |
| .000 | 5998 | 5023 |
| .019 | 8333 | |
| .023 | | 1.0811 |
| .041 | 7349 | |
| .045 | | 7980 |
| .056 | 0000 | |
| .057 | | 9407 |
| .077 | 1 0335 | |
| .090 | | 6178 |
| .093 | 8233 | |
| .113 | | 5587 |

MACH (2) = 8.024 HAW/HT (3) = 1.000 RE/FT = 1.0600 P0 = 921.50 T0 = 2712.0 H0 = 17.700

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

| | | |
|--------|-------|-------|
| D | | |
| - .048 | 1687 | .0000 |
| - .028 | 2653 | |
| - .024 | | .0804 |
| .000 | 5268 | 4412 |
| .019 | 7318 | |
| .023 | | .9495 |
| .041 | .6454 | |
| .045 | | 7008 |
| .056 | .0000 | |
| .057 | | 8261 |
| .077 | .9077 | |
| .090 | | 5426 |
| .093 | .7230 | |
| .113 | | 4907 |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/1H21 (CAL HST 173-100) 37 0 T WING L E

(RUGC14) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT XMRP = 0000 IN
 LREF = 1290 3000 IN YMRP = .0000 IN
 BREF = 1290 3000 IN ZMRP = 0000 IN
 SCALE = .1000

ALPHA = 000 BETA = 000

MACH (1) = 16 050 HAW/HT(1) = 850 RE/FT = 46340-01 P0 = 577.10 T0 = 3699 0 H0 = 25 320

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D
 - 048 3852 0000
 - 028 6044
 - 024 6736
 .000 4877 9094
 019 2920
 023 0000
 .041 2826
 .045 .4278
 .056 .2479
 057 .3896
 077 .1939
 .090 .2445
 093 .0000
 .113 .1995

MACH (1) = 16 050 HAW/HT(2) = .900 RE/FT = .46340-01 P0 = 577 10 T0 = 3699.0 H0 = 25.320

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D
 - 048 .3603 .0000
 - 028 .5654
 - 024 6302
 000 .4563 8507
 .019 .2732
 023 .0000
 041 2644
 .045 4003
 056 .2319
 .057 .3645
 .077 .1814
 090 .2287
 093 0000
 113 .1867

OH12/IH21 (CAL HST 173-100) 37 O T WING L E

(RUGC14)

MACH (1) = 16.050 HAW/HT(3) = 1 000 RE/FT = 46340-01 P0 = 577 10 TO = 3699 0 HO = 25.320

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|-------|-------|-------|
| - 048 | 3192 | .0000 |
| -.028 | .5009 | . |
| - 024 | | .5582 |
| 000 | 4042 | .7536 |
| 019 | 2420 | |
| 023 | | .0000 |
| .041 | .2342 | |
| 045 | | 3545 |
| 056 | .2054 | |
| 057 | | 3229 |
| .077 | .1607 | |
| 090 | | .2026 |
| .093 | 0000 | |
| .113 | | .1653 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC15) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT XMRP = .0000 IN.
 LREF = 1290.3000 IN YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 25.000 BETA = .000

MACH (1) = 12.030 HAW/HT(1) = .850 RE/FT = .95540 PO = 4211.0 TO = 3477.0 HO = 23.460

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D
 - 048 .3436 .0000
 - 028 .5794
 - 024 .3112
 000 .6823 7684
 019 .8968
 .023 0000
 .041 .5319
 .045 .6696
 056 .5300
 .057 .8007
 077 .3737
 .090 .2799
 .093 0000
 .113 3829

MACH (1) = 12.030 HAW/HT(2) = .900 RE/FT = .95540 PO = 4211.0 TO = 3477.0 HO = 23.460

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D
 - 048 .3212 0000
 - 028 .5415
 - 024 .2909
 .000 .6377 .7182
 019 .8382
 .023 0000
 .041 4971
 .045 .6258
 .056 .4954
 .057 7483
 077 3492
 .090 2616
 093 .0000
 .113 .3578

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 315

OH12/IH21 (CAL HST 173-100) 37 0 WING L E (RUGC15)

MACH (1) = 12 030 HAW/HT (3) = 1.000 RE/FT = .95540 PO = 4211.0 TO = 3477 0 HO = 23.460

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

| | | |
|-------|-------|-------|
| D | | |
| - 048 | 2840 | 0000 |
| - 028 | 4789 | |
| - 024 | | .2573 |
| .000 | 5640 | 6352 |
| .019 | .7413 | |
| .023 | | .0000 |
| .041 | 4397 | |
| .045 | | 5535 |
| .056 | 4381 | |
| .057 | | 6618 |
| .077 | 3089 | |
| .090 | | 2314 |
| .093 | 0000 | |
| .113 | | 3165 |

MACH (2) = 15 720 HAW/HT (1) = 0.950 RE/FT = .23850 PO = 2417 0 TO = 3531.0 HO = 23.940

SECTION (1) LEADING EDGE DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

| | | |
|-------|-------|-------|
| D | | |
| - 048 | .3381 | .0000 |
| - 028 | 6322 | |
| - 024 | | .1647 |
| .000 | 6481 | .3213 |
| .019 | 6320 | |
| .023 | | 0000 |
| .041 | 5486 | |
| .045 | | 2970 |
| .056 | 5777 | |
| .057 | | .3249 |
| .077 | .4511 | |
| .090 | | .1589 |
| .093 | 0000 | |
| .113 | | .7505 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(RUGC15)

MACH (2) = 15.720 HAW/HT (2) = 900 RE/FT = 23850 PO = 2417.0 TD = 3531.0 HO = 23.940

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

| D | H/HREF | H/HREF |
|-------|--------|--------|
| -.048 | 3161 | .0000 |
| -.028 | 5910 | |
| -.024 | | .1539 |
| .000 | 6059 | 3004 |
| .019 | 5909 | |
| .023 | | 0000 |
| .041 | 5129 | |
| .045 | | .2777 |
| .056 | 5401 | |
| .057 | | .3038 |
| .077 | 4217 | |
| .090 | | .1485 |
| .093 | 0000 | |
| .113 | | .7016 |

MACH (2) = 15.720 HAW/HT (3) = 1.000 RE/FT = 23850 PO = 2417.0 TD = 3531.0 HO = 23.940

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

| D | H/HREF | H/HREF |
|-------|--------|--------|
| -.048 | 2797 | .0000 |
| -.028 | 5229 | |
| -.024 | | .1362 |
| .000 | 5361 | 2658 |
| .019 | 5228 | |
| .023 | | 0000 |
| .041 | 4538 | |
| .045 | | .2457 |
| .056 | 4779 | |
| .057 | | 2688 |
| .077 | 3731 | |
| .090 | | .1314 |
| .093 | 0000 | |
| .113 | | 6208 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC16) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 0000 IN.
 LREF = 1290 3000 IN YMRP = 0000 IN
 BREF = 1290 3000 IN ZMRP = 0000 IN
 SCALE = 1000

ALPHA = 30 000 BETA = .000

MACH (1) = 12 030 HAW/HT (1) = .850 RE/FT = .96300 P0 = 4246 0 T0 = 3477 0 H0 = 23 460

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D
 - 048 2230 0000
 -.028 4108
 - 024 1845
 000 4498 5908
 019 5112
 023 0000
 041 .3654
 .045 5458
 056 4804
 057 6823
 077 .3887
 090 3718
 093 .0000
 113 3931

MACH (1) = 12 030 HAW/HT (2) = .900 RE/FT = .96300 P0 = 4246.0 T0 = 3477.0 H0 = 23.460

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4 0220

D
 - 048 2084 0000
 -.028 .3840
 - 024 1725
 000 .4204 5522
 019 .4778
 023 0000
 041 3416
 045 5101
 056 .4490
 057 6377
 077 3633
 090 3475
 093 .0000
 .113 3674

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 HING L.E

(RUGC16)

MACH (1) = 12 030 HAW/HT(3) = 1.000 RE/FT = 96300 PO = 4246.0 TO = 3477 0 HO = 23 460

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|--------|-------|-------|
| - .048 | .1843 | .0000 |
| - 028 | 3396 | |
| - 024 | | .1525 |
| 000 | 3718 | .4884 |
| .019 | 4225 | |
| 023 | | 0000 |
| 041 | 3021 | |
| 045 | | .4512 |
| 056 | 3971 | |
| 057 | | 5640 |
| 077 | 3213 | |
| .090 | | .3073 |
| 093 | 0000 | |
| 113 | | .3250 |

MACH (2) = 15 720 HAW/HT(1) = 850 RE/FT = .24490 PO = 2491.0 TO = 3535.0 HO = 23 970

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | 2792 | 0000 |
| - 028 | 4743 | |
| - 024 | | 2628 |
| 000 | 5247 | .5802 |
| 019 | 5909 | |
| 023 | | 0000 |
| .041 | 4097 | |
| .045 | | 5979 |
| .056 | 5250 | |
| .057 | | 6960 |
| .077 | 4146 | |
| 090 | | 4263 |
| 093 | .0000 | |
| 113 | | 8443 |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 319

OH12/IH21 (CAL HST 173-100) 37 0 HINO L.E.

(RUOC16)

MACH (2) = 15 720 HAW/HT(2) = 900 RE/FT = 24490 PD = 2491.0 T0 = 3535.0 H0 = 23 970

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

| D | | |
|------|-------|-------|
| .048 | 2810 | .0000 |
| .028 | .4434 | |
| .024 | | .2487 |
| .000 | .4905 | .8425 |
| .019 | .5524 | |
| .023 | | .0000 |
| .041 | 3831 | |
| .045 | | .5590 |
| .056 | 4908 | |
| .057 | | 6507 |
| .077 | 3876 | |
| .090 | | .3985 |
| .093 | .0000 | |
| .113 | | .7893 |

MACH (2) = 15 720 HAW/HT(3) = 1.000 RE/FT = .24490 PD = 2491 0 T0 = 3535 0 H0 = 23.970

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4.0220

| D | | |
|------|-------|-------|
| .048 | 2309 | .0000 |
| .028 | .3923 | |
| .024 | | .2174 |
| .000 | .4340 | 4800 |
| .019 | .4888 | |
| .023 | | .0000 |
| .041 | .3390 | |
| .045 | | 4946 |
| .056 | 4343 | |
| .057 | | 5757 |
| .077 | 3430 | |
| .090 | | 3526 |
| .093 | .0000 | |
| .113 | | 6984 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(RUGC17) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = .0000 IN.
 LREF = 1290 3000 IN YMRP = .0000 IN.
 BREF = 1290 3000 IN ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 35 000 BETA = .000

MACH (1) = 12.060 HAW/HT(1) = .850 RE/FT = 98280 P0 = 4058.0 T0 = 3362.0 H0 = 22.590

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

-.048 4453 0000
 -.028 4703
 -.024 1909
 .000 .8338 6286
 .019 6607
 .023 0000
 .041 7672
 .045 6324
 .056 6031
 .057 8113
 .077 6331
 .090 .4383
 .093 0000
 .113 4723

MACH (1) = 12.060 HAW/HT(2) = .900 RE/FT = 98280 P0 = 4058.0 T0 = 3362.0 H0 = 22.590

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

-.048 4161 0000
 -.028 4394
 -.024 1784
 .000 7790 5873
 .019 .6172
 .023 .0000
 .041 .7167
 .045 5909
 .056 .5635
 .057 7580
 .077 5915
 .090 4095
 .093 0000
 .113 .4412

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(RUGC17)

MACH (1) = 12 060 HAW/HT(3) = 1 000 RE/FT = 98280 P0 = 4058 0 T0 = 3362 0 H0 = 22 590

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|-------|------|-------|
| - 048 | 3677 | 0000 |
| - 028 | 3884 | |
| - 024 | | 1577 |
| .000 | 6885 | 5191 |
| .019 | 5456 | |
| .023 | | 0000 |
| .041 | 6335 | |
| .045 | | 5222 |
| .056 | 4980 | |
| .057 | | .6700 |
| .077 | 5228 | |
| .090 | | 3619 |
| .093 | 0000 | |
| .113 | | .3900 |

MACH (2) = 15 740 HAW/HT(1) = .850 RE/FT = 25440 P0 = 2551.0 T0 = 3510.0 H0 = 23.780

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2 8130 4 0220

D

| | | |
|-------|-------|-------|
| - 048 | 4039 | 0000 |
| - 028 | 4368 | |
| - 024 | | 1673 |
| .000 | 7586 | 4977 |
| .019 | 5917 | |
| .023 | | .0000 |
| .041 | 7089 | |
| .045 | | 5573 |
| .056 | 5683 | |
| .057 | | .6787 |
| .077 | 7028 | |
| .090 | | 4501 |
| .093 | .0000 | |
| .113 | | .4083 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(RUGC17)

MACH (2) = 15.740 HAW/HT(2) = .900 RE/FT = .25440 PO = 2551.0 TO = 3510.0 HO = 23.780

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| - 048 | 3776 | 0000 |
| - 028 | 4083 | |
| - 024 | | 1564 |
| .000 | 7092 | .4652 |
| .019 | 5532 | |
| .023 | | 0000 |
| .041 | .6627 | |
| .045 | | 5210 |
| .056 | .5313 | |
| .057 | | .6345 |
| .077 | 6570 | |
| .090 | | 4208 |
| .093 | .0000 | |
| .113 | | .3817 |

MACH (2) = 15.740 HAW/HT(3) = 1.000 RE/FT = .25440 PO = 2551.0 TO = 3510.0 HO = 23.780

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE H/HREF

Y 2.8130 4.0220

D

| | | |
|-------|-------|-------|
| -.048 | 3341 | 0000 |
| -.028 | 3613 | |
| - 024 | | 1384 |
| .000 | .6274 | .4116 |
| .019 | 4894 | |
| .023 | | .0000 |
| .041 | .5863 | |
| .045 | | .4610 |
| .056 | .4700 | |
| .057 | | .5613 |
| .077 | .5813 | |
| .090 | | .3723 |
| .093 | 0000 | |
| .113 | | .3377 |

OH12/IH21 (CAL HST 173-100) 37 T TANK

(RUGT01)

MACH (1) = 6.993 HAW/HT (3) = 1.000

SECTION (1) TANK DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0040 | .0100 | .0400 | .0410 | .0800 | .1500 | .2000 | .2010 | .2110 | .2510 | .3440 | .3510 | .3760 | .4000 |
| PHI | | | | | | | | | | | | 0073 | | | |
| 225 000 | | | | | | | | | | | | | | | |
| 241 000 | .7565 | | | | | | | | | | | | | | |
| 247.500 | .7565 | | | | | | | | | | | | | | |
| 270 000 | .7565 | | | | | | | 0110 | | | | | | | .0052 |
| 315 000 | .7565 | | | | | | | | | | | | | | |
| X/L | .4010 | .4070 | .4260 | .4410 | .4510 | .4760 | .5000 | .5010 | .5510 | .6000 | .6010 | .6510 | .7000 | .7010 | .8000 |
| PHI | | | | | | | | | | | | | | | |
| 000 | | | | | | | | | | .0041 | | | | | .0034 |
| 167 000 | | 0069 | | | | | | | | | | | | | |
| 180.000 | .0023 | | .0020 | | .0278 | .0320 | | .0155 | 0196 | | .0158 | 0145 | | | 0114 |
| 193 000 | | 0112 | | | | | | | | | | | | | |
| 199 000 | | | | .0021 | | .0017 | .0017 | | | | | | | | |
| 221 500 | | | | | | | | .0055 | | | .0026 | | | | .0015 |
| 270 000 | | | | | | | .0045 | | | .0045 | | | .0049 | | .0049 |
| 315 000 | | | | | | | | | | 0051 | | | | | 0042 |
| X/L | .8010 | .8250 | .8510 | .8760 | .9000 | .9010 | .9020 | .9260 | .9360 | .9600 | | | | | |
| PHI | | | | | | | | | | | | | | | |
| 180 000 | .0097 | | | | | | | .0045 | | .0016 | | | | | |
| 199 000 | | | | | .0006 | | | | | | | | | | |
| 221 500 | .0001 | | .0011 | | | | .0001 | | | | | | | | |
| 241 000 | | .0013 | .0009 | .0001 | | .0024 | | .0066 | | .0051 | | | | | |
| 247 500 | | | .0013 | | .0034 | | | | | | | | | | |
| 270 000 | | | | | | .0041 | | | | | | | | | |

MACH (2) = 7.618 HAW/HT (1) = 850 RE/FT = 1.2330 P0 = 521.60 TO = 1984.0 H0 = 12.600

SECTION (1) TANK DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | 0000 | 0040 | .0100 | .0400 | .0410 | .0800 | .1500 | .2000 | .2010 | .2110 | .2510 | .3440 | .3510 | .3760 | .4000 |
| PHI | | | | | | | | | | | | | | | |
| .000 | 1.1791 | | | .1890 | | .1065 | .0379 | | | | | | | | .0121 |
| 180 000 | 1.1791 | | | | .2734 | 1367 | 0449 | | .0191 | .0134 | .0102 | | .0068 | .0042 | |
| 199 000 | 1.1791 | | .8805 | | | | | | | | | | | | |
| 220 000 | | 6574 | | | | | | | | | | | | | |
| 221 500 | 1.1791 | | | | | | | | | | | | | | .0322 |
| 225 000 | | | | | | | | | | | .0261 | | | | |
| 241 000 | 1.1791 | | | | | | | | | | | | | | |
| 247 500 | 1.1791 | | | | | | | | | | | | | | |
| 270 000 | 1.1791 | | | | | | | .0159 | | | | | | | .0086 |
| 315.000 | 1.1791 | | | | | | | | | | | | | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 T TANK

(RUGT01)

MACH (2) = 7.618 HAW/HT (2) = .900

| SECTION (1)TANK | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | | |
|-------------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| X/L | 4010 | 4070 | .4260 | .4410 | 4510 | .4760 | 5000 | .5010 | .5510 | .6000 | .6010 | 6510 | .7000 | 7010 | .8000 |
| PHI | | | | | | | | | | | | | | | |
| 221 500 | | | | | | | | 0133 | | | 0163 | | | 0172 | |
| 270 000 | | | | | | | 0065 | | | 0082 | | | .0084 | | 0058 |
| 315 000 | | | | | | | | | | 0120 | | | | | 0055 |
| X/L | 8010 | .8250 | 8510 | .8760 | .9000 | 9010 | .9020 | .9260 | .9360 | 9600 | | | | | |
| PHI | | | | | | | | | | | | | | | |
| 180 000 | 0268 | | | | | | | 0157 | | .0344 | | | | | |
| 199 000 | | | | | | 0098 | | | | | | | | | |
| 221 500 | .0236 | | .0120 | | | | | 0005 | | | | | | | |
| 241 000 | | 0085 | 0055 | .0023 | | | 0144 | | | 0293 | | .0067 | | | |
| 247 500 | | | .0110 | | .0150 | | | | | | | | | | |
| 270 000 | | | | | | .0052 | | | | | | | | | |

MACH (2) = 7.618 HAW/HT (3) = 1.000 RE/FT = 1.2330 P0 = 521.60 T0 = 1984.0 H0 = 12.600

| SECTION (1)TANK | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | | |
|-------------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | 0000 | .0040 | .0100 | .0400 | 0410 | .0800 | 1500 | 2000 | 2010 | .2110 | 2510 | 3440 | .3510 | 3760 | .4000 |
| PHI | | | | | | | | | | | | | | | |
| 000 | .9429 | | | 1512 | | .0851 | 0303 | | | | | | | | 0096 |
| 180 000 | 9429 | | | | 2186 | .1109 | 0359 | | 0153 | .0107 | 0082 | | .0054 | 0033 | |
| 199 000 | 9429 | | .7042 | | | | | | | | | | | | |
| 220 000 | | .5257 | | | | | | | | | | | | | |
| 221 500 | 9429 | | | | | | | | | | | | | | 0257 |
| 225 000 | | | | | | | | | | | | .0209 | | | |
| 241 000 | .9429 | | | | | | | | | | | | | | |
| 247 500 | .9429 | | | | | | | | | | | | | | |
| 270 000 | .9429 | | | | | | | | .0128 | | | | | | .0069 |
| 315 000 | 9429 | | | | | | | | | | | | | | |
| X/L | 4010 | 4070 | .4260 | .4410 | .4510 | .4760 | .5000 | .5010 | .5510 | .6000 | .6010 | .6510 | .7000 | .7010 | 8000 |
| PHI | | | | | | | | | | | | | | | |
| 000 | | | | | | | | | | | 0062 | | | | .0038 |
| 167 000 | | 0539 | | | | | | | | | | | | | |
| 180 000 | 0048 | | .0193 | | .0000 | 0000 | | 0229 | .0322 | | .0317 | .0296 | | .0258 | |
| 193 000 | | 0258 | | | | | | | | | | | | | |
| 199 000 | | | | .0068 | | .0189 | .0151 | | | | | | | | |
| 221 500 | | | | | | | | .0115 | | | .0141 | | | 0149 | |
| 270 000 | | | | | | | .0056 | | | | | | .0073 | | .0050 |
| 315.000 | | | | | | | | | | .0071 | | | | | .0048 |
| | | | | | | | | | | .0104 | | | | | |

OH12/IH21 (CAL HST 173-100) 37 T TANK (RUGT01)

MACH (2) = 7.618 HAW/HT(3) = 1.000

| SECTION (1)TANK | DEPENDENT VARIABLE H/HREF | | | | | | | | | |
|-------------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .8010 | .8250 | .8510 | .8760 | .9000 | .9010 | .9020 | .9260 | .9360 | .9600 |
| PHI | | | | | | | | | | |
| 180.000 | .0232 | | | | | | .0136 | | .0298 | |
| 199.000 | | | | | .0085 | | | | | |
| 221.500 | .0204 | | .0104 | | | | .0005 | | | |
| 241.000 | | .0074 | .0048 | .0020 | | .0125 | | .0254 | | .0058 |
| 247.500 | | | .0096 | | .0130 | | | | | |
| 270.000 | | | | | | .0045 | | | | |

MACH (3) = 15.990 HAW/HT(1) = .850 RE/FT = 44410-01 P0 = 559.80 TO = 3736.0 HO = 25.620

| SECTION (1)TANK | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | | |
|-------------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0040 | .0100 | .0400 | .0410 | .0800 | .1500 | .2000 | .2010 | .2110 | .2510 | .3440 | .3510 | .3760 | .4000 |
| PHI | | | | | | | | | | | | | | | |
| 000 | .9782 | | | .2027 | | .1082 | .0414 | | | | | | | | .0093 |
| 180.000 | .9782 | | | | .1389 | .1114 | .0459 | | .0221 | .0203 | .0131 | | .0101 | .0086 | |
| 199.000 | .9782 | | .1795 | | | | | | | | | | | | |
| 220.000 | | 4849 | | | | | | | | | | | | | |
| 221.500 | .9782 | | | | | | | | | | | | | | .0038 |
| 225.000 | | | | | | | | | | | .0120 | | | | |
| 241.000 | .9782 | | | | | | | | | | | | | | |
| 247.500 | .9782 | | | | | | | | | | | | | | |
| 270.000 | .9782 | | | | | | | | .0237 | | | | | | .0077 |
| 315.000 | .9782 | | | | | | | | | | | | | | |
| X/L | .4010 | .4070 | .4260 | .4410 | .4510 | .4760 | .5000 | .5010 | .5510 | .6000 | .6010 | .6510 | .7000 | .7010 | .8000 |
| PHI | | | | | | | | | | | | | | | |
| 000 | | | | | | | | | | | .0087 | | | | .0058 |
| 167.000 | | .0094 | | | | | | | | | | | | | |
| 180.000 | .0095 | | .0099 | | .0082 | .0068 | | .0059 | .0061 | | .0067 | .0078 | | .0064 | |
| 193.000 | | .0115 | | | | | | | | | | | | | |
| 199.000 | | | | .0039 | | .0025 | .0023 | | | | | | | | |
| 221.500 | | | | | | | | .0020 | | | .0026 | | | .0026 | |
| 270.000 | | | | | | | | .0098 | | | .0067 | | .0054 | | .0059 |
| 315.000 | | | | | | | | | | .0097 | | | | | .0057 |

| | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .8010 | .8250 | .8510 | .8760 | .9000 | .9010 | .9020 | .9260 | .9360 | .9600 |
| PHI | | | | | | | | | | |
| 180.000 | .0064 | | | | | | .0063 | | .0013 | |
| 199.000 | | | | | .0018 | | | | | |
| 221.500 | .0013 | | .0012 | | | | .0013 | | | |
| 241.000 | | .0000 | .0044 | .0064 | | .0057 | | .0047 | | .0031 |
| 247.500 | | | .0054 | | .0071 | | | | | |

OH12/IH21 (CAL HST 173-100) 37 T TANK

(RUGT01)

MACH (3) = 15 990 HAW/HT(1) = 850

SECTION (1)TANK DEPENDENT VARIABLE H/HREF

X/L .8010 .8250 .8510 .8760 .9000 9010 9020 .9260 .9360 9600

PHI
270 000 0054

MACH (3) = 15 990 HAW/HT(2) = 900 RE/FT = .44410-01 P0 = 559.80 T0 = 3736 0 H0 = 25.620

SECTION (1)TANK DEPENDENT VARIABLE H/HREF

X/L .0000 .0040 0100 0400 0410 0800 1500 2000 .2010 .2110 .2510 3440 3510 3760 .4000

PHI
000 9153 .1896 .1012 .0387 0087
180 000 .9153 .1300 .1043 0429 .0207 0190 .0123 .0094 0081
199 000 9153 1679
220 000 .4537
221 500 .9153 0035
225 000 .0112
241.000 9153
247 500 .9153
270 000 9153 .0222 .0072
315 000 9153

X/L .4010 .4070 .4260 .4410 .4510 4760 .5000 .5010 .5510 .6000 6010 6510 .7000 .7010 .8000

PHI
000 .0082 0054
167.000 .0088
180 000 0089 0092 .0076 0084 .0055 .0057 0063 .0073 .0060
193.000 .0107
199.000 .0036 .0024 .0021
221.500 .0018 .0024 .0024
270.000 .0091 .0082 .0051 .0055
315.000 .0091 .0053

X/L .8010 .8250 .8510 .8760 .9000 9010 .9020 .9260 .9360 .9600

PHI
180 000 .0060 0059 .0012
199.000 .0017
221 500 .0012 .0012 .0012
241 000 .0000 .0042 .0060 .0053 .0044 .0029
247.500 .0050 .0066
270 000 .0050

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 T TANK (RUGT01)
 MACH (3) = 15.890 HAW/HT(3) = 1.000 RE/FT = .44410-01 PG = 559.80 TO = 3736.0 HO = 25.620

SECTION (1)TANK DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0040 | .0100 | .0400 | .0410 | .0800 | .1500 | .2000 | .2010 | .2110 | .2510 | .3440 | .3510 | .3760 | .4000 |
| PHI | | | | | | | | | | | | | | | |
| .000 | .8109 | | | .1680 | | .0897 | .0343 | | | | | | | | .0077 |
| 180.000 | .8109 | | | | .1152 | .0924 | .0380 | | .0183 | .0168 | .0109 | | .0083 | .0071 | |
| 199.000 | .8109 | | .1488 | | | | | | | | | | | | |
| 220.000 | | .4019 | | | | | | | | | | | | | |
| 221.500 | .8109 | | | | | | | | | | | | | | .0031 |
| 225.000 | | | | | | | | | | | .0099 | | | | |
| 241.000 | .8109 | | | | | | | | | | | | | | |
| 247.500 | .8109 | | | | | | | | | | | | | | |
| 270.000 | .8109 | | | | | | | .0197 | | | | | | | .0064 |
| 315.000 | .8109 | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .4010 | .4070 | .4260 | .4410 | .4510 | .4760 | .5000 | .5010 | .5510 | .6000 | .6010 | .6510 | .7000 | .7010 | .8000 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | | | | | | | | .0072 | | | | | .0048 |
| 167.000 | | .0078 | | | | | | | | | | | | | |
| 180.000 | .0079 | | .0082 | | .0068 | .0057 | | .0049 | .0050 | | .0056 | .0064 | | .0053 | |
| 193.000 | | .0095 | | | | | | | | | | | | | |
| 199.000 | | | | .0032 | | .0021 | .0019 | | | | | | | | |
| 221.500 | | | | | | | .0016 | | | .0022 | | | | .0022 | |
| 270.000 | | | | | | | .0081 | | | .0055 | | | .0045 | | .0049 |
| 315.000 | | | | | | | | | | .0080 | | | | | .0047 |

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|
| X/L | .8010 | .8250 | .8510 | .8760 | .9000 | .9010 | .9020 | .9260 | .9360 | .9600 | | | | | |
| PHI | | | | | | | | | | | | | | | |
| 180.000 | .0053 | | | | | .0053 | | | .0010 | | | | | | |
| 199.000 | | | | | .0015 | | | | | | | | | | |
| 221.500 | .0011 | | .0010 | | | .0011 | | | | | | | | | |
| 241.000 | | .0000 | .0037 | .0053 | | .0047 | | .0039 | | .0026 | | | | | |
| 247.500 | | | .0045 | | .0059 | | | | | | | | | | |
| 270.000 | | | | | | .0044 | | | | | | | | | |

MACH (4) = 18.370 HAW/HT(1) = 850 RE/FT = .12620-01 PG = 383.50 TO = 4524.0 HO = 32.180

SECTION (1)TANK DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0040 | .0100 | .0400 | .0410 | .0800 | .1500 | .2000 | .2010 | .2110 | .2510 | .3440 | .3510 | .3760 | .4000 |
| PHI | | | | | | | | | | | | | | | |
| .000 | .8895 | | | .1644 | | .0950 | .0344 | | | | | | | | .0084 |
| 180.000 | .8895 | | | | .1391 | .0848 | .0376 | | .0150 | .0163 | .0115 | | .0094 | .0083 | |
| 199.000 | .8895 | | .1519 | | | | | | | | | | | | |
| 220.000 | | .4885 | | | | | | | | | | | | | |
| 221.500 | .8895 | | | | | | | | | | | | | | |

215

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 333

OH12/IH21 (CAL HST 173-100) 37 T

TANK

(RUGT01)

MACH (4) = 18 370 MAW/HT(3) = 1 000

SECTION (1) TANK

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| X/L | 4010 | 4070 | .4260 | .4410 | .4510 | .4760 | 5000 | 5010 | 5510 | .6000 | .6010 | .6510 | .7000 | .7010 | .8000 |
| PHI | | | | | | | | 0023 | | | .0027 | | | .0020 | |
| 221 500 | | | | | | | 0061 | | | 0077 | | | .0067 | | 0081 |
| 270 000 | | | | | | | | | | .0059 | | | | | 0083 |
| 315 000 | | | | | | | | | | | | | | | |
| X/L | .8010 | 8250 | .8510 | .8760 | .9000 | 9010 | .9020 | 9260 | .9360 | .9600 | | | | | |
| PHI | | | | | | | | | .0045 | .0008 | | | | | |
| 180 000 | 0039 | | | | | | | | | | | | | | |
| 199 000 | | | | | 0011 | | | | | | | | | | |
| 221 500 | 0017 | | 0028 | | | | 0115 | | | | | | | | |
| 241 000 | | 0000 | .0029 | 0025 | | 0022 | | 0031 | | 0066 | | | | | |
| 247 500 | | | .0080 | | .0069 | | | | | | | | | | |
| 270 000 | | | | | .0059 | | | | | | | | | | |

MACH (5) = 19 130 MAW/HT(1) = 850 RE/FT = .44700-01 P0 = 1716 0 T0 = 4774 0 H0 = 34.240

SECTION (11) TANK

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | 0000 | 0040 | .0100 | .0400 | 0410 | .0800 | .1500 | 2000 | .2010 | 2110 | .2510 | 3440 | .3510 | .3760 | 4000 |
| PHI | | | | | | | | | | | | | | | |
| 000 | .9558 | | | .1714 | | 0965 | 0386 | | | | | | | | 0058 |
| 180 000 | 9558 | | | | 1312 | 0000 | .0373 | | .0194 | .0159 | 0124 | | 0080 | .0079 | |
| 199 000 | 9558 | | .1557 | | | | | | | | | | | | |
| 220 000 | | 4849 | | | | | | | | | | | | | |
| 221 500 | 9558 | | | | | | | | | | | | | | .0026 |
| 225 000 | | | | | | | | | | | .0084 | | | | |
| 241 000 | 9558 | | | | | | | | | | | | | | |
| 247 500 | 9558 | | | | | | | | | | | | | | |
| 270 000 | 9558 | | | | | | | .0189 | | | | | | | .0065 |
| 315.000 | 9558 | | | | | | | | | | | | | | |
| X/L | 4010 | 4070 | .4260 | .4410 | .4510 | .4760 | .5000 | .5010 | .5510 | .6000 | .6010 | .6510 | .7000 | .7010 | 8000 |
| PHI | | | | | | | | | | | | | | | |
| 000 | | | | | | | | | | 0000 | | | | | 0037 |
| 167.000 | | 0026 | | | | | | | | | | | | | |
| 180.000 | 0097 | | .0095 | | .0091 | .0080 | | .0079 | .0070 | | .0057 | .0055 | | .0040 | |
| 193 000 | | .0082 | | | | | | | | | | | | | |
| 199 000 | | | | .0035 | | .0031 | .0032 | | | | | | | | |
| 221 500 | | | | | | | | .0016 | | .0028 | | | | .0019 | |
| 270 000 | | | | | | | .0048 | | | .0055 | | .0064 | | | 0048 |
| 315 000 | | | | | | | | | | .0044 | | | | | 0055 |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 T TANK

(ROOT01)

MACH (5) = 19.130 HAW/HT(1) = 850

SECTION (1) TANK

DEPENDENT VARIABLE H/HREF

| X/L | .8010 | .8250 | .8510 | .8760 | .9000 | .9010 | 9020 | .9260 | .9360 | 9600 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PHI | | | | | | | | | | |
| 180 000 | .0048 | | | | | | .0040 | | .0013 | |
| 199.000 | | | | | .0029 | | | | | |
| 221.500 | .0017 | | .0024 | | | | .0025 | | | |
| 241.000 | | .0000 | .0036 | .0063 | | .0043 | | .0034 | | .0013 |
| 247 500 | | | .0067 | | .0049 | | | | | |
| 270 000 | | | | | | .0042 | | | | |

MACH (5) = 19 130 HAW/HT(2) = .900 RE/FT = .44700-01 P0 = 1716.0 T0 = 4774.0 H0 = 34 240

SECTION (1) TANK

DEPENDENT VARIABLE H/HREF

| X/L | .0000 | .0040 | 0100 | .0400 | .0410 | .0800 | 1500 | .2000 | .2010 | .2110 | .2510 | .3440 | .3510 | .3760 | .4000 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PHI | | | | | | | | | | | | | | | |
| 000 | .8967 | | | .1608 | | .0905 | .0362 | | | | | | | | .0064 |
| 180 000 | .8967 | | | | .1231 | .0000 | .0350 | | .0182 | .0149 | .0116 | | .0075 | .0074 | |
| 199.000 | .8967 | | .1461 | | | | | | | | | | | | |
| 220 000 | | .4549 | | | | | | | | | | | | | |
| 221 500 | .8967 | | | | | | | | | | | | | | .0025 |
| 225 000 | | | | | | | | | | | | .0078 | | | |
| 241 000 | .8967 | | | | | | | | | | | | | | |
| 247 500 | .8967 | | | | | | | | | | | | | | |
| 270 000 | .8967 | | | | | | | .0178 | | | | | | | .0061 |
| 315.000 | .8967 | | | | | | | | | | | | | | |

| X/L | .4010 | .4070 | .4260 | .4410 | .4510 | .4760 | .5000 | 5010 | .5510 | .6000 | .6010 | .6510 | .7000 | .7010 | 8000 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PHI | | | | | | | | | | | | | | | |
| .000 | | | | | | | | | | | .0000 | | | | .0035 |
| 167-000 | | .0024 | | | | | | | | | | | | | |
| 180 000 | .0091 | | .0089 | | .0085 | .0075 | | .0074 | .0065 | | .0053 | .0052 | | .0038 | |
| 193 000 | | .0077 | | | | | | | | | | | | | |
| 199-000 | | | | .0033 | | .0029 | .0030 | | | | | | | | |
| 221 500 | | | | | | | | .0015 | | | .0026 | | | .0018 | |
| 270.000 | | | | | | | .0045 | | | .0052 | | | .0060 | | .0045 |
| 315.000 | | | | | | | | | .0041 | | | | | | .0051 |

| X/L | .8010 | .8250 | .8510 | .8760 | .9000 | .9010 | 9020 | .9260 | .9360 | 9600 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PHI | | | | | | | | | | |
| 180.000 | .0045 | | | | | | .0038 | | .0013 | |
| 199 000 | | | | | .0027 | | | | | |
| 221.500 | .0015 | | .0023 | | | | .0024 | | | |
| 241.000 | | .0000 | .0033 | .0059 | | .0040 | | .0032 | | .0012 |
| 247.500 | | | .0063 | | .0048 | | | | | |

OH12/IH21 (CAL HST 173-100) 37 T TANK

(RU0T01)

MACH (5) = 19.130 HAW/HT(2) = .900

SECTION (1) TANK DEPENDENT VARIABLE H/HREF

X/L .8010 .8250 .8510 .8760 9000 9010 .9020 .9260 .9360 .9600

PHI
270 000 .0039

MACH (5) = 19.130 HAW/HT(3) = 1.000 RE/FT = .44700-01 P0 = 1716.0 T0 = 4774.0 H0 = 34.240

SECTION (1) TANK DEPENDENT VARIABLE H/HREF

X/L .0000 .0040 0100 0400 0410 .0800 .1500 2000 .2010 .2110 2510 3440 .3510 .3760 4000

PHI
000 .7979 1431 0806 .0323 0057
180 000 7979 .1095 .0000 .0312 .0162 .0133 0104 0067 0066
199.000 .7979 .1300
220 000 .4048 .0022
221 500 .7979 0070
225 000
241 000 .7979
247 500 .7979
270 000 .7979 .0158 .0054
315 000 .7979

X/L .4010 4070 .4260 4410 4510 .4760 .5000 5010 5510 6000 .6010 .6510 .7000 .7010 8000

PHI
.000 .0000 0031
167 000 0022
180 000 .0081 0078 .0076 .0066 .0066 .0058 .0047 .0046 .0034
193.000 0069
199.000 .0030 .0025 .0027
221.500 .0013 .0023 .0016
270.000 .0040 .0046 .0053 .0040
315.000 .0037 .0046

X/L .8010 .8250 .8510 .8760 9000 .9010 .9020 .9260 .9360 9600

PHI
180 000 .0040 .0034 .0011
199.000 .0024
221 500 .0014 0020 .0021
241 000 .0000 .0030 .0053 0036 .0028 .0011
247 500 .0056 .0041
270 000 .0035

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 343

OH12/IH21 (CAL HST 173-100) 37 0 T-NP TANK

(RUGT04)

MACH (1) = 17.920 HAW/HT (2) = .900 RE/FT = 12570-01 P0 = 332 10 T0 = 4409.0 H0 = 31 180

SECTION (1) TANK

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | 0040 | .0100 | .0400 | .0410 | .0800 | .1500 | 2000 | 2010 | .2110 | 2510 | .3440 | .3510 | .3760 | 4000 |
| PHI | | | | | | | | | | | | | | | |
| 000 | 7322 | | | 1368 | | 0755 | 0269 | | | | | | | | .0066 |
| 180 000 | 7322 | | | | .1533 | .0843 | .0355 | | 0156 | .0129 | .0122 | | .0106 | .0103 | |
| 199 000 | 7322 | | 2865 | | | | | | | | | | | | |
| 220 000 | | 3695 | | | | | | | | | | | | | |
| 221 500 | .7322 | | | | | | | | | | | | | | .0124 |
| 225 000 | | | | | | | | | | | | 0066 | | | |
| 241 000 | .7322 | | | | | | | | | | | | | | |
| 247 500 | .7322 | | | | | | | | | | | | | | |
| 270 000 | 7322 | | | | | | | 0180 | | | | | | | .0070 |
| 315 000 | .7322 | | | | | | | | | | | | | | |

X/L .4010 .4070 4260 .4410 .4510 4750 .5000 5010 .5510 6000 6010 .6510 .7000 .7010 .8000

PHI

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|-------|
| 000 | | | | | | | | | | .0066 | | | | | .0051 |
| 167 000 | | .0254 | | | | | | | | | | | | | |
| 180 000 | .0274 | | .0303 | | .0188 | .0119 | | .0070 | .0052 | | .0037 | .0026 | | .0011 | |
| 193 000 | | .0000 | | | | | | | | | | | | | |
| 199 000 | | | | .0219 | | .0170 | .0107 | | | | | | | | |
| 221 500 | | | | | | | | .0086 | | | .0061 | | | .0041 | |
| 270 000 | | | | | | | 0066 | | | 0051 | | .0042 | | | .0050 |
| 315 000 | | | | | | | | | | 0077 | | | | | .0068 |

X/L 8010 .8250 8510 .8760 9000 .9010 9020 .9260 .9360 9600

PHI

| | | | | | | | | | | | | | | | |
|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|
| 180 000 | 0000 | | | | | | .0010 | | .0014 | | | | | | |
| 199 000 | | | | | .0018 | | | | | | | | | | |
| 221 500 | 0029 | | 0029 | | | | .0017 | | | | | | | | |
| 241 000 | | .0000 | .0061 | .0038 | | .0028 | | .0016 | | .0023 | | | | | |
| 247 500 | | | 0066 | | .0020 | | | | | | | | | | |
| 270 000 | | | | | | 0051 | | | | | | | | | |

MACH (1) = 17 920 HAW/HT (3) = 1.000 RE/FT = 12570-01 P0 = 332.10 T0 = 4409.0 H0 = 31.180

SECTION (1) TANK

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0040 | .0100 | .0400 | .0410 | .0800 | .1500 | .2000 | .2010 | .2110 | .2510 | .3440 | .3510 | .3760 | .4000 |
| PHI | | | | | | | | | | | | | | | |
| 000 | 6507 | | | .1216 | | .0671 | .0239 | | | | | | | | .0059 |
| 180 000 | 6507 | | | | .1362 | .0750 | .0316 | | .0139 | .0115 | .0108 | | .0094 | .0092 | |
| 199 000 | .6507 | | 2546 | | | | | | | | | | | | |
| 220 000 | | .3283 | | | | | | | | | | | | | |
| 221 500 | 6507 | | | | | | | | | | | | | | .0111 |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/1H21 (CAL HST 173-100) 37 0 T TANK (RUGT05)

MACH (1) = 7.010 HAW/HT(2) = .900 RE/FT = .12810 P0 = 372.20 T0 = 5483.0 H0 = 41.260

SECTION (1) TANK DEPENDENT VARIABLE H/HREF

X/L .0000 .0040 .0100 .0400 .0410 .0800 .1500 .2000 .2010 .2110 .2510 .3440 .3510 .3760 .4000

PHI
 .000 .8054 .1628 .0839 .0316 .0083
 180.000 .8054 .1877 .1084 .0363 .0150 .0114 .0084 .0035 .0115
 199.000 .8054 .5047
 220.000 .2078
 221.500 .8054 .0038
 225.000 .0061
 241.000 .8054
 247.500 .8054
 270.000 .8054 .0141 .0056
 315.000 .8054

X/L .4010 .4070 .4260 .4410 .4510 .4760 .5000 .5010 .5510 .6000 .6010 .6510 .7000 .7010 .8000

PHI
 .000 .0049 .0026
 167.000 .0117
 180.000 .0088 .0312 .1582 .0378 .0359 .0307 .0276 .0216 .0115
 193.000 .0166
 199.000 .0733 .0326 .0062
 221.500 .0263 .0921 .0547
 270.000 .0028 .0098 .0231 .0054
 315.000 .0053 .0042

X/L .8010 .8250 .8510 .8760 .9000 .9010 .9020 .9260 .9360 .9600

PHI
 180.000 .0081 .0098 .0153
 199.000 .0039
 221.500 .0300 .0105 .0327
 241.000 .0018 .0004 .0031 .0152 .0107 .0026
 247.500 .0032 .0038
 270.000 .0198

MACH (1) = 7.010 HAW/HT(3) = 1.000 RE/FT = .12810 P0 = 372.20 T0 = 5483.0 H0 = 41.260

SECTION (1) TANK DEPENDENT VARIABLE H/HREF

X/L .0000 .0040 .0100 .0400 .0410 .0800 .1500 .2000 .2010 .2110 .2510 .3440 .3510 .3760 .4000

PHI
 .000 .7182 .1452 .0748 .0281 .0074
 180.000 .7182 .1674 .0967 .0323 .0134 .0101 .0075 .0031 .0102
 199.000 .7182 .4500
 220.000 .1851
 221.500 .7182

OH12/IH21 (CAL HST 173-100) 37 O T TANK

(RUGT05)

MACH (2) = 7.617 HAW/HT (2) = .900

SECTION (1) TANK DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|-------|
| X/L | .4010 | 4070 | 4260 | 4410 | .4510 | 4760 | 5000 | .5010 | 5510 | 6000 | 6010 | .6510 | 7000 | 7010 | .8000 |
| PHI | | | | | | | | | | | | | | | |
| 221 500 | | | | | | | | 0577 | | | .0935 | | | 0683 | |
| 270 000 | | | | | | | .0039 | | | 0113 | | | .0404 | | 0199 |
| 315 000 | | | | | | | | | | 0025 | | | | | .0071 |
| X/L | .8010 | 8250 | .8510 | .8760 | .9000 | 9010 | .9020 | .9260 | 9360 | .9500 | | | | | |
| PHI | | | | | | | | | | | | | | | |
| 180 000 | 0337 | | | | | | .0513 | | 2522 | | | | | | |
| 199 000 | | | | | 0190 | | | | | | | | | | |
| 221 500 | .0491 | | .0129 | | | | 0000 | | | | | | | | |
| 241.000 | | .0165 | .0050 | 0044 | | .0160 | | 0275 | | .0080 | | | | | |
| 247 500 | | | .0144 | | 0158 | | | | | | | | | | |
| 270.000 | | | | | | .0000 | | | | | | | | | |

MACH (2) = 7.617 HAW/HT (3) = 1.000 RE/FT = 1.2240 P0 = 524.50 T0 = 2000.0 H0 = 12.700

SECTION (1) TANK DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0040 | .0100 | .0400 | .0410 | .0800 | 1500 | .2000 | .2010 | .2110 | .2510 | .3440 | 3510 | 3760 | .4000 |
| PHI | | | | | | | | | | | | | | | |
| .000 | .9599 | | | 1585 | | 0866 | 0305 | | | | | | | | 0086 |
| 180 000 | 9599 | | | .2506 | .1163 | .0324 | | 0144 | 0117 | 0073 | | .0075 | .0133 | | |
| 199 000 | 9599 | | .6849 | | | | | | | | | | | | |
| 220 000 | | 4855 | | | | | | | | | | | | | |
| 221 500 | 9599 | | | | | | | | | | | | | | .0124 |
| 225.000 | | | | | | | | | | | .0282 | | | | |
| 241 000 | 9599 | | | | | | | | | | | | | | |
| 247 500 | 9599 | | | | | | | | | | | | | | |
| 270.000 | .9599 | | | | | | | 0137 | | | | | | | .0070 |
| 315 000 | 9599 | | | | | | | | | | | | | | |
| X/L | .4010 | .4070 | .4260 | .4410 | .4510 | .4760 | .5000 | .5010 | .5510 | .6000 | .6010 | .6510 | .7000 | .7010 | 8000 |
| PHI | | | | | | | | | | | | | | | |
| 000 | | | | | | | | | | .0066 | | | | | .0045 |
| 167 000 | | .1414 | | | | | | | | | | | | | |
| 180.000 | .0203 | | .0567 | | 3040 | .1071 | | 0403 | .0479 | | .0464 | .0342 | | .0298 | |
| 193 000 | | 0821 | | | | | | | | | | | | | |
| 199 000 | | | | .0000 | | .1453 | .0509 | | | | | | | | |
| 221 500 | | | | | | | | .0500 | | | .0810 | | | .0592 | |
| 270 000 | | | | | | | .0034 | | | .0098 | | | .0350 | | .0172 |
| 315 000 | | | | | | | | | | 0022 | | | | | .0062 |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 T TANK

(RUGT05)

MACH (2) = 7.617 HAW/HT(3) = 1.000

| SECTION (1)TANK | DEPENDENT VARIABLE H/HREF | | | | | | | | | |
|-------------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .8010 | .8250 | .8510 | .8760 | .9000 | .9010 | .9020 | .9260 | .9360 | .9600 |
| PHI | | | | | | | | | | |
| 180.000 | .0292 | | | | | | .0445 | | .2186 | |
| 199 000 | | | | | .0165 | | | | | |
| 221.500 | .0426 | | .0112 | | | | .0000 | | | |
| 241 000 | | .0143 | .0043 | .0038 | | .0139 | | .0239 | | .0070 |
| 247 500 | | | .0125 | | .0137 | | | | | |
| 270 000 | | | | | | .0000 | | | | |

MACH (3) = 18 170 HAW/HT(1) = 850 RE/FT = .14330-01 P0 = 353.40 T0 = 4228.0 H0 = 29 620

| SECTION (1)TANK | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | | |
|-------------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .0000 | .0040 | .0100 | .0400 | .0410 | .0800 | .1500 | .2000 | .2010 | .2110 | .2510 | .3440 | .3510 | .3760 | .4000 |
| PHI | | | | | | | | | | | | | | | |
| 000 | .8412 | | | .1595 | | .0784 | .0365 | | | | | | | | .0079 |
| 180.000 | .8412 | | | | .1615 | .0869 | .0386 | | .0187 | .0156 | .0139 | | .0111 | .0105 | |
| 199 000 | .8412 | | .1577 | | | | | | | | | | | | |
| 220 000 | | .5154 | | | | | | | | | | | | | |
| 221 500 | .8412 | | | | | | | | | | | | | | .0063 |
| 225 000 | | | | | | | | | | | .0123 | | | | |
| 241 000 | .8412 | | | | | | | | | | | | | | |
| 247 500 | .8412 | | | | | | | | | | | | | | |
| 270 000 | .8412 | | | | | | | .0127 | | | | | | | .0060 |
| 315 000 | .8412 | | | | | | | | | | | | | | |
| X/L | .4010 | .4070 | .4260 | .4410 | .4510 | .4760 | .5000 | .5010 | .5510 | .6000 | .6010 | .6510 | .7000 | .7010 | .8000 |
| PHI | | | | | | | | | | | | | | | |
| 000 | | | | | | | | | | .0070 | | | | | .0077 |
| 167.000 | | .0177 | | | | | | | | | | | | | |
| 180.000 | .0247 | | .0341 | | .0109 | .0083 | | .0046 | .0031 | | .0024 | .0009 | | .0014 | |
| 193 000 | | .0000 | | | | | | | | | | | | | |
| 199 000 | | | | .0064 | | .0048 | .0040 | | | | | | | | |
| 221.500 | | | | | | | | .0028 | | | .0038 | | | .0013 | |
| 270.000 | | | | | | | .0053 | | | .0075 | | .0083 | | | .0040 |
| 315.000 | | | | | | | | | | .0054 | | | | | .0040 |

| | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .8010 | .8250 | .8510 | .8760 | .9000 | .9010 | .9020 | .9260 | .9360 | .9600 |
| PHI | | | | | | | | | | |
| 180.000 | .0000 | | | | | | .0012 | | .0017 | |
| 199 000 | | | | | .0018 | | | | | |
| 221.500 | .0013 | | .0013 | | | | .0013 | | | |
| 241.000 | | .0041 | .0018 | .0013 | | .0013 | | .0018 | | .0043 |
| 247.500 | | | .0046 | | .0011 | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 T TANK

(RUGT05)

MACH (3) = 18.170 HAM/HT(1) = .850

SECTION (1) TANK DEPENDENT VARIABLE H/HREF

X/L 8010 8250 .8510 .8760 9000 .9010 .9020 .9260 .9360 .9600

PHI
270.000 .0000

MACH (3) = 18.170 HAM/HT(2) = .900 RE/FT = .14330-01 PO . = 353.40 TO = 4228.0 H0 = 29.680

SECTION (1) TANK DEPENDENT VARIABLE H/HREF

X/L .0000 0040 .0100 .0400 .0410 0800 1500 .2000 2010 .2110 .2510 .3440 .3510 3760 .4000

PHI
000 .7881 .1494 0734 .0342 0074
180 000 .7881 .1514 .0814 0361 .0175 .0146 .0130 0104 .0098
199 000 .7881 .1478
220 000 .4629
221.500 .7881
225 000 0116
241 000 .7881
247 500 .7881
270 000 .7881 0119 0056
315 000 7881

X/L 4010 .4070 .4260 .4410 .4510 4760 .5000 .5010 .5510 .6000 .6010 .6510 .7000 .7010 8000

PHI
000 .0066 .0072
167 000 .0166
180.000 .0231 .0320 .0103 .0078 0043 .0029 .0022 0009 .0013
193.000 .0000
199 000 .0060 0045 0037
221.500 .0027 .0035 .0012
270.000 0050 .0071 0078 .0038
315 000 0051 0038

X/L .8010 .8250 8510 .8760 .9000 .9010 .9020 .9260 .9360 .9600

PHI
180.000 .0000 0011 .0016
199 000 .0017
221 500 .0012 .0013 .0012
241 000 .0039 .0017 .0012 .0012 .0017 .0040
247 500 .0043 .0011
270 000 .0000

OH12/IH21 (CAL HST 173-100) 37 0 T TANK

(RUGT05)

MACH (4) = 18 950 HAW/HT(3) = 1 000

| SECTION (1) TANK | DEPENDENT VARIABLE H/HREF | | | | | | | | | | | | | | |
|--------------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | 4010 | 4070 | 4260 | .4410 | .4510 | .4760 | 5000 | .5010 | .5510 | .6000 | .6010 | .6510 | .7000 | .7010 | 8000 |
| PHI | | | | | | | | | | | | | | | |
| 221.500 | | | | | | | | .0094 | | | .0063 | | | | |
| 270.000 | | | | | | | .0055 | | | .0040 | | | .0052 | | .0025 |
| 315.000 | | | | | | | | | | .0058 | | | | | .0051 |
| X/L | 8010 | 8250 | 8510 | .8760 | 9000 | .9010 | 9020 | 9260 | .9360 | 9600 | | | | | |
| PHI | | | | | | | | | | | | | | | |
| 180.000 | .0020 | | | | | | | .0016 | | .0009 | | | | | |
| 199.000 | | | | | .0012 | | | | | | | | | | |
| 221.500 | .0017 | | .0008 | | | | .0007 | | | | | | | | |
| 241.000 | | .0029 | .0011 | .0036 | | .0009 | | .0010 | | .0010 | | | | | |
| 247.500 | | | .0033 | | .0012 | | | | | | | | | | |
| 270.000 | | | | | | .0049 | | | | | | | | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) - 37 0 T TANK

(RUGT14) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2590 0000 SQ FT XMRP = 0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BRP = 1290 3000 IN ZMRP = 0000 IN
 SCALE = 1000

ALPHA = 000 BETA = 000

MACH (1) = 15 700 HAW/HT (1) = .850 RE/FT = 33350 P0 = 4036 0 T0 = 3841.0 H0 = 26 420

SECTION (1) TANK

DEPENDENT VARIABLE H/HREF

| X/L | 0000 | 0040 | .0100 | 0400 | 0410 | .0800 | .1500 | 2000 | 2010 | 2110 | 2510 | 3440 | 3510 | .3760 | 4000 |
|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PHI | | | | 0000 | | .0000 | .0404 | | | | | | | | 0075 |
| 180.000 | 1 2228 | | | | 2239 | .1411 | .0483 | | 0215 | 0159 | .0118 | | 0057 | .0084 | |
| 199 000 | 1 2228 | | 5850 | | | | | | | | | | | | |
| 220.000 | | 3397 | | | | | | | | | | | | | |
| 221.500 | 1.2228 | | | | | | | | | | | | | | .0048 |
| 225.000 | | | | | | | | | | | .0054 | | | | |
| 241.000 | 1.2228 | | | | | | | | | | | | | | |
| 247 500 | 1 2228 | | | | | | | | | | | | | | |
| 270 000 | 1 2228 | | | | | | | .0163 | | | | | | | 0066 |
| 315 000 | 1 2228 | | | | | | | | | | | | | | |
| X/L | .4010 | 4070 | 4260 | .4410 | .4510 | .4760 | 5000 | .5010 | .5510 | 6000 | 6010 | .6510 | 7000 | 7010 | 8000 |
| PHI | | | | | | | | | | .0077 | | | | | 0035 |
| 167 000 | | .0048 | | | | | | | | | | | | | |
| 180.000 | .0095 | | 0600 | | .2279 | .0457 | | .0447 | .0253 | | .0265 | .0216 | | .0192 | |
| 193.000 | | .0048 | | | | | | | | | | | | | |
| 199 000 | | | | .0171 | | .0240 | .0106 | | | | | | | | |
| 221 500 | | | | | | | | .0361 | | | .0000 | | | .0443 | |
| 270.000 | | | | | | | .0054 | | | .0033 | | | .0065 | | .0117 |
| 315 000 | | | | | | | | | | .0051 | | | | | .0029 |
| X/L | .8010 | .8250 | .8510 | .8780 | .9000 | .9010 | .9020 | .9260 | .9380 | .9600 | | | | | |
| PHI | | | | | | | | | | | | | | | |
| 180 000 | 0152 | | | | | | .0099 | | .0104 | | | | | | |
| 199 000 | | | | | .0019 | | | | | | | | | | |
| 221 500 | .0212 | | .0166 | | | | .0223 | | | | | | | | |
| 241.000 | | .0000 | .0008 | .0037 | | .0062 | | .0053 | | .0021 | | | | | |
| 247 500 | | | .0024 | | .0049 | | | | | | | | | | |
| 270 000 | | | | | | .0087 | | | | | | | | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 T TANK

(RUGT14)

MACH (2) = 16 000 HAW/HT(2) = 900

SECTION (1)TANK

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|-------|------|-------|------|-------|------|------|-------|-------|------|
| X/L | 4010 | 4070 | 4260 | 4410 | 4510 | .4760 | 5000 | .5010 | 5510 | .6000 | 6010 | 6510 | .7000 | .7010 | 8000 |
| PHI | | | | | | | | .0243 | | | 0178 | | | .0083 | |
| 221 500 | | | | | | | 0081 | | | .0042 | | | .0045 | | 0093 |
| 270 000 | | | | | | | | | | .0091 | | | | | 0093 |
| 315.000 | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|-----|------|------|------|-------|------|-------|------|------|-------|-------|--|--|--|--|--|
| X/L | 8010 | 8260 | 8510 | .8760 | 9000 | .9010 | 9020 | 9260 | .9360 | .9600 | | | | | |
|-----|------|------|------|-------|------|-------|------|------|-------|-------|--|--|--|--|--|

| | | | | | | | | | | | | | | | |
|---------|-------|------|-------|-------|-------|-------|------|-------|-------|-------|--|--|--|--|--|
| PHI | | | | | | | | | | | | | | | |
| 180 000 | 0012 | | | | | | 0011 | | .0012 | | | | | | |
| 199 000 | | | | | .0012 | | | | | | | | | | |
| 221 500 | .0008 | | .0034 | | | | 0020 | | | | | | | | |
| 241.000 | | 0000 | .0013 | .0063 | | 0038 | | .0023 | | .0017 | | | | | |
| 247.500 | | | 0017 | | 0053 | | | | | | | | | | |
| 270.000 | | | | | | .0000 | | | | | | | | | |

MACH (2) = 16 000 HAW/HT(3) = 1.000 RE/FT = .44490-01 P0 = 552 60 T0 = 3710 0 H0 = 25 400

SECTION (1)TANK

DEPENDENT VARIABLE H/HREF

| | | | | | | | | | | | | | | | |
|---------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|
| X/L | .0000 | 0040 | .0100 | .0400 | .0410 | 0800 | .1500 | .2000 | .2010 | 2110 | .2510 | 3440 | 3510 | .3760 | .4000 |
| PHI | | | | | | | | | | | | | | | |
| 000 | .8534 | | | 0000 | | 0886 | .0339 | | | | | | | | .0097 |
| 180 000 | 8534 | | | | .1181 | .0963 | .0394 | | .0178 | 0151 | .0134 | | .0091 | .0103 | |
| 199 000 | 8534 | | .1472 | | | | | | | | | | | | |
| 220 000 | | 4330 | | | | | | | | | | | | | |
| 221 500 | 8534 | | | | | | | | | | | | | | .0037 |
| 225 000 | | | | | | | | | | | .0076 | | | | |
| 241 000 | .8534 | | | | | | | | | | | | | | |
| 247 500 | .8534 | | | | | | | | | | | | | | |
| 270 000 | .8534 | | | | | | | .0197 | | | | | | | .0052 |
| 315 000 | 8534 | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|---------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | 4010 | .4070 | .4260 | 4410 | .4510 | 4760 | .5000 | .5010 | .5510 | 6000 | .6010 | .6510 | .7000 | .7010 | 8000 |
| PHI | | | | | | | | | | | | | | | |
| 000 | | | | | | | | | | 0085 | | | | | .0073 |
| 167 000 | | .0088 | | | | | | | | | | | | | |
| 180 000 | 0130 | | .0560 | | 0823 | .0425 | | .0273 | .0166 | | .0115 | .0074 | | 0033 | |
| 193 000 | | 0104 | | | | | | | | | | | | | |
| 199 000 | | | | 0080 | | .0084 | .0065 | | | | | | | | |
| 221 500 | | | | | | | | .0215 | | | .0158 | | | .0073 | |
| 270 000 | | | | | | | .0072 | | | .0037 | | | .0040 | | .0082 |
| 315 000 | | | | | | | | | | .0081 | | | | | .0082 |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 364

OH12/IH21 (CAL HST 173-100) 37 0 T TANK

(RUCT14)

MACH (2) = 16.000 HAW/HT(3) = 1.000

| SECTION (1)TANK | DEPENDENT VARIABLE H/HREF | | | | | | | | | |
|-------------------|---------------------------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| X/L | 8010 | 8250 | .8510 | 8760 | 9000 | .9010 | 9020 | .9260 | 9360 | .9600 |
| PHI | | | | | | | | | | |
| 180 000 | .0011 | | | | | | .0009 | | .0011 | |
| 199.000 | | | | | .0011 | | | | | |
| 221.500 | 0007 | | 0030 | | | | .0018 | | | |
| 241.000 | | .0000 | .0012 | 0056 | | .0033 | | .0020 | | .0015 |
| 247 500 | | | .0015 | | 0047 | | | | | |
| 270 000 | | | | | | .0000 | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 T-NP FUSELAGE

(OUG804) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = .0000 IN.
 LREF = 1290.3000 IN YMRP = .0000 IN
 BREF = 1290 3000 IN ZMRP = 0000 IN.
 SCALE = 1000

ALPHA = .000 BETA = 000

MACH (1) = 18 360 ALPHA (1) = .083 RE/FT = 12410-01 P0 = 360 50 T0 = 4449 0 H0 = 31 530

SECTION (1) FUSELAGE

DEPENDENT VARIABLE QDOT

| | | | | | | | | | | | | | | | |
|---------|---------|--------|--------|--------|-------|--------|-------|-------|--------|-------|-------|-------|--------|-------|--------|
| X/L | .0000 | 0070 | 0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | 1260 | .1420 | 1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | 12 4900 | 5.3600 | 2 3160 | | 8712 | | 5146 | .0000 | | | .3430 | 4890 | | 0000 | |
| 30 000 | | | | | | | | | | .5659 | | | | | |
| 180.000 | | | | 3 8500 | | 3.0130 | | | 2 6110 | | | | 1 9690 | | 2 1650 |
| X/L | .1600 | 1610 | 1700 | .1810 | 2000 | 2010 | 2500 | .3000 | .3500 | .3990 | 4010 | .4490 | 5000 | .5010 | 5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | 4052 | | | 2605 | | .1945 | .1200 | 0494 | | 0498 | 0143 | .0236 | | 0256 |
| 25 000 | | | | | | | | .0799 | | .0617 | | | | | |
| 30 000 | | | | | | .3934 | | | | | | | | | |
| 180 000 | 3 7130 | | 5 2610 | 6.3600 | | | | | | | | | | | .1785 |
| X/L | .6000 | 6990 | .7000 | 8000 | .9000 | 1 0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | 0445 | .0322 | .0268 | .0298 | | | | | | | | | |
| 25 000 | .0520 | | | 0191 | | | | | | | | | | | |
| 180 000 | | .1780 | | | | | | | | | | | | | |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/1H21 (CAL HST 173-100) 37 0 T FUSELAGE

(QUQB05) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = 0000 IN
 LREF = 1290 3000 IN YMRP = 0000 IN
 BREF = 1290.3000 IN. ZMRP = 0000 IN
 SCALE = 1000

ALPHA = 000 BETA = .000

MACH (1) = 6.999 ALPHA (1) = 050 RE/FT = 12050 PO = 357 80 TO = 5538 0 HO = 41.770

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L 0000 0070 .0190 0300 0420 0600 0620 0810 0910 1000 .1030 1220 1260 .1420 .1500

PHI

000 174 3000 89.4700 39 1100 18 7200 0000 30 3200 15.4000 3 0430 0000
 30 000 5 8940
 180 000 44.8600 30 2200 25.0300 18 0000 8 7140

X/L .1600 .1610 1700 1810 2000 2010 2500 .3000 3500 .3990 4010 .4490 .5000 5010 .5970

PHI

000 5 3500 9 4420 5 9960 4.9460 3.6900 3.2690 3 7680 4 0590 4.1830
 25 000 5 6660 4 8590
 30 000 7.6060
 180.000 71.5700 107 1000103 0000 1.0580

X/L .6000 .6990 7000 8000 9000 1 0000

PHI

000 6 0580 6.4010 1.7550 4657
 25 000 2 6790 3 2150
 180 000 1.6760

MACH (2) = 7 616 ALPHA (1) = 050 RE/FT = 1.2040 PO = 519 30 TO = 2007 0 HO = 12.750

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L 0000 0070 .0190 .0300 0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI

000 74 7900 32 7600 13.4400 4.3840 9.7320 13.4600 0000 2 1190 .0000
 30 000 5.1860
 180 000 14 7800 9.9470 7.8710 5 8960 2.8310

X/L 1600 .1610 .1700 .1810 .2000 .2010 2500 .3000 .3500 .3990 .4010 4490 5000 .5010 .5970

PHI

000 3.1990 5.7670 3.4020 2.3520 1.5080 1.6000 1 7630 1 8460 1 9760
 25 000 .7628 2.0120
 30.000 3.8760
 180 000 88.8800 33.7200 33.2900 .4647

OH12/IH21 (CAL HST 173-100) 37 0 T FUSELAGE

(QUG805)

MACH (2) = 7.616 ALPHA (1) = .050

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

| | | | | | | |
|---------|--------|-------|--------|--------|--------|--------|
| X/L | .8000 | .6990 | .7000 | .8000 | .9000 | 1.0000 |
| PHI | | | | | | |
| .000 | | | 1.3280 | 4.7650 | 1.8400 | .5116 |
| 25.000 | 1.1690 | | | 5.2150 | | |
| 180.000 | | .9521 | | | | |

MACH (3) = 18.330 ALPHA (1) = .083 RE/FT = .12100-01 P0 = 346.80 T0 = 4436.0 H0 = 31.410

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

| | | | | | | | | | | | | | | | |
|---------|---------|--------|--------|--------|-------|--------|-------|-------|--------|-------|-------|-------|--------|-------|--------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | 11.7700 | 4.8950 | 2.2650 | | 8495 | | 5720 | .6256 | | | | .2387 | 2034 | | 0000 |
| 30.000 | | | | | | | | | | .5876 | | | | | |
| 180.000 | | | | 2.9960 | | 2.5360 | | | 2.0210 | | | | 1.5480 | | 1.7980 |

| | | | | | | | | | | | | | | | |
|---------|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .1630 | | | 1360 | | 0533 | .0594 | .0180 | | .0308 | .0096 | .0387 | | .0136 |
| 25.000 | | | | | | | | .0395 | | 0169 | | | | | |
| 30.000 | | | | | | 1806 | | | | | | | | | |
| 180.000 | 3.5170 | | 4.4530 | 5.2550 | | | | | | | | | | | 1247 |

MACH (4) = 19.200 ALPHA (1) = .083 RE/FT = .43200-01 P0 = 1602.0 T0 = 4694.0 H0 = 33.500

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

| | | | | | | | | | | | | | | | |
|---------|---------|---------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|-------|--------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | 31.3500 | 12.5500 | .0000 | | 2.7230 | | 1.7970 | 1.6940 | | | | .2385 | .3684 | | .0000 |
| 30.000 | | | | | | | | | | 1.9970 | | | | | |
| 180.000 | | | | 8.0150 | | 5.9930 | | | 5.3110 | | | | 3.6140 | | 3.2530 |

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .7364 | | | .6629 | | .4410 | .3345 | .2738 | | .1001 | .1079 | .0773 | | .0186 |

OH12/IH21 (CAL HST 173-100) 37 0 T FUSELAGE

(QUGB06) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = 0000 IN
 LREF = 1290 3000 IN YMRP = 0000 IN
 BREF = 1290.3000 IN ZMRP = 0000 IN
 SCALE = 1000

ALPHA = 5 000 BETA = .000

MACH (1) = 19 220 ALPHA (1) = -5.083 RE/FT = .43430-01 P0 = 1614.0 T0 = 4695 0 H0 = 33.500

SECTION (1) FUSELAGE

DEPENDENT VARIABLE QDOT

| X/L | 0000 | 0070 | .0190 | 0300 | 0420 | 0600 | 0620 | 0810 | 0910 | .1000 | 1030 | .1220 | .1260 | .1420 | 1500 |
|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|-------|-------|--------|-------|--------|
| PHI | | | | | | | | | | | | | | | |
| 000 | 40 6700 | 14.5900 | 8 7750 | | 3 4980 | | 2.3880 | 1.8660 | | | .3022 | .6638 | | .0000 | |
| 30 000 | | | | | | | | | | 2.3270 | | | | | |
| 180 000 | | | 13.5400 | | 5 3710 | | | | 3.5280 | | | | 2.8700 | | 3.2220 |
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | 2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| 000 | | .9205 | | 1 0650 | | .8381 | .7385 | 5692 | | .3789 | .3070 | .2011 | | | 0901 |
| 25 000 | | | | | | | .6799 | | .3602 | | | | | | |
| 30 000 | | | | | | .9170 | | | | | | | | | |
| 180 000 | 7.5310 | | 14.1500 | 13.5400 | | | | | | | | | | | .4567 |
| X/L | 6000 | .6990 | 7000 | .8000 | .9000 | 1 0000 | | | | | | | | | |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | .0916 | .0254 | .0303 | .0297 | | | | | | | | | |
| 25 000 | .0710 | | | .0395 | | | | | | | | | | | |
| 180.000 | | .4028 | | | | | | | | | | | | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE

(QUG807) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = 0000 IN ALPHA = .000 BETA = 000
 LREF = 1290 3000 IN. YMRP = 0000 IN.
 BREF = 1290 3000 IN ZMRP = .0000 IN.
 SCALE = 1000

MACH (1) = 6 997 ALPHA (1) = 050 RE/FT = 13020 P0 = 384.80 T0 = 5526 0 H0 = 41 700

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L .0000 0070 0190 .0300 .0420 .0600 0620 .0810 .0910 1000 .1030 .1220 .1260 .1420 1500
 PHI
 .000 328 7000 74.4600 .0000 20 4100 0000 8.5480 6.6790 5 1520 4 2890
 30 000 0000
 180 000 42.1700 30.1400 22.4300 17.7600 15.4200

X/L 1600 1610 .1700 .1810 2000 2010 2500 .3000 .3500 3990 4010 4490 5000 5010 5970
 PHI
 000 3 6940 2.6680 2 3060 1 6750 1.4090 1 0510 9977 9950 8294
 25 000 2 4730 2 0030
 30 000 .0000
 180.000 81.8500 105 0000 101.6000 2 3940

X/L .6000 .6990 7000 .8000 .9000 1 0000
 PHI
 000 6595 .4911 .4415 3630
 25 000 1.3080 1.2330
 180 000 3 5430

MACH (2) = 7 614 ALPHA (1) = .050 RE/FT = 1 2320 P0 = 534.30 T0 = 2015.0 H0 = 12 800

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L 0000 0070 .0190 .0300 0420 0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500
 PHI
 .000 107 5000 25 7000 13.5800 6 6750 0000 2.9250 2.0600 1 5540 1.4180
 30.000 4.5900
 180 000 13.3100 9 1980 7 0000 5 0590 2.7790

X/L .1600 1610 1700 .1810 .2000 2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 5970
 PHI
 000 1 2210 1.0040 .7676 6044 4736 .4284 4188 3907 .3269
 25 000 .8577 .7218
 30 000 1.8900
 180.000 30 5300 35.4500 29.6700 1.0790

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE

(OUGB07)

MACH (2) = 7.614 ALPHA (1) = 050

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

| | | | | | | |
|---------|------|--------|-------|-------|------|--------|
| X/L | 6000 | .6990 | .7000 | 8000 | 9000 | 1 0000 |
| PHI | | | | | | |
| .000 | | | .3682 | .4011 | 3630 | .3251 |
| 25 000 | 6181 | | | .7786 | | |
| 180 000 | | 1 1160 | | | | |

MACH (3) = 16.060 ALPHA (1) = .093 RE/FT = .44180-01 P0 = 560.00 T0 = 3731.0 H0 = 25.530

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

| | | | | | | | | | | | | | | | |
|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|-------|--------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | 0600 | .0620 | 0810 | .0910 | 1000 | 1030 | 1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | 25 3300 | 12 0700 | 5 4070 | | 2 5200 | | 1 7900 | 1.3670 | | | | .9458 | .8356 | | .0000 |
| 30 000 | | | | | | | | | | 1.7100 | | | | | |
| 180 000 | | | | 6.0380 | | 4 2210 | | | 2 9930 | | | 2 4550 | | 2.5550 | |

| | | | | | | | | | | | | | | | |
|---------|--------|-------|--------|---------|------|------|------|-------|-------|-------|-------|------|-------|-------|-------|
| X/L | 1600 | .1610 | .1700 | 1810 | 2000 | 2010 | 2500 | 3000 | .3500 | .3990 | 4010 | 4490 | 5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .6556 | | | 5134 | | 4000 | .3666 | .3210 | | .3016 | 2760 | .2497 | | .1648 |
| 25.000 | | | | | | | | .4620 | | .3100 | | | | | |
| 30 000 | | | | | | 7322 | | | | | | | | | |
| 180 000 | 5 0820 | | 8 8450 | 10.4700 | | | | | | | | | | 2701 | |

X/L .6000 6990 .7000 .8000 .9000 1 0000

| | | | | | | |
|---------|------|------|-------|-------|-------|------|
| PHI | | | | | | |
| .000 | | | .1885 | .1553 | .1382 | 1223 |
| 25.000 | 2157 | | | .1182 | | |
| 180.000 | | 2640 | | | | |

MACH (4) = 18.310 ALPHA (1) = .067 RE/FT = .12290-01 P0 = 348.20 T0 = 4417.0 H0 = 31.290

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

| | | | | | | | | | | | | | | | |
|---------|---------|---------|--------|--------|--------|--------|--------|-------|--------|-------|-------|--------|-------|--------|-------|
| X/L | 0000 | 0070 | .0190 | .0300 | .0420 | 0600 | 0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | 20.6500 | 10.9800 | 5.1040 | | 1.6330 | | 1 1150 | .7909 | | | .6312 | .5415 | | .0000 | |
| 30 000 | | | | | | | | | | .9989 | | | | | |
| 180.000 | | | | 3.6930 | | 2 5400 | | | 2.1250 | | | 1 5720 | | 1.9130 | |

| | | | | | | | | | | | | | | | |
|------|-------|-------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1610 | 1700 | .1810 | 2000 | 2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .4950 | | | .4195 | | .3004 | .3365 | .2890 | | 2718 | .1965 | .2024 | | .1709 |

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE (QUG807)

MACH (4) = 18.310 ALPHA (1) = .067

SECTION (1) FUSELAGE DEPENDENT VARIABLE QOOT

| | | | | | | | | | | | | | | | |
|---------|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1810 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | 5970 |
| PHI | | | | | | | | | | | | | | | |
| 25.000 | | | | | | | | .2848 | | .2185 | | | | | |
| 30.000 | | | | | | | .3290 | | | | | | | | |
| 180.000 | 3.3750 | | 4.7020 | 6.3500 | | | | | | | | | | | .1865 |

X/L .6000 .6990 .7000 .8000 9000 1.0000

PHI
 .000 .1821 .1495 .1446 .1352
 25.000 .1819 .1480
 180.000 .0874

MACH (5) = 19.190 ALPHA (1) = .067 RE/FT = .44400-01 P0 = 1603 0 T0 = 4644 0 H0 = 33.120

SECTION (1) FUSELAGE DEPENDENT VARIABLE QOOT

| | | | | | | | | | | | | | | | |
|---------|---------|---------|--------|-------|--------|-------|--------|--------|-------|--------|--------|--------|-------|--------|-------|
| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | | | | | | | | | | | | | | | |
| .000 | 33.1600 | 15.1600 | 6.9170 | | 3.2750 | | 2.2840 | 1.7090 | | | 1.1350 | 1.0170 | | | .0000 |
| 30.000 | | | | | | | | | | 2.0730 | | | | | |
| 180.000 | | | 7.6140 | | 5.5510 | | | 4.0210 | | | | 2.6450 | | 4.3800 | |

| | | | | | | | | | | | | | | | |
|---------|--------|-------|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | .1600 | .1810 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | 5970 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | .8557 | | | .7089 | | 5525 | .4831 | .4232 | | .4165 | .3390 | .3028 | | 3014 |
| 25.000 | | | | | | | | .4710 | | 3921 | | | | | |
| 30.000 | | | | | | 8292 | | | | | | | | | |
| 180.000 | 6.6100 | | 9.6490 | 16.3600 | | | | | | | | | | | .2954 |

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI
 .000 .2727 .1783 2093 1551
 25.000 2603 .1911
 180.000 .2737

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE

(OUGB10) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT. XMRP = .0000 IN
 LREF = 1290.3000 IN YMRP = .0000 IN.
 BREF = 1290.3000 IN ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 25.000 BETA = .000

MACH (1) = 6.973 ALPHA (1) = 25.070 RE/FT = 12370 PO = 373.20 T0 = 5587.0 H0 = 42.320

| SECTION (1) FUSELAGE | | DEPENDENT VARIABLE QDOT | | | | | | | | | | | | | | |
|------------------------|---------|-------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|---------|-------|
| X/L | | 0000 | 0070 | 0190 | 0300 | 0420 | 0600 | .0620 | .0810 | .0910 | .1000 | .1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | .000 | 0000172 | 8000101.4000 | | 60.4000 | | 45.6500 | 36.4300 | | | | 30.2600 | 26.7200 | | 25.5200 | |
| | 30.000 | | | | | | | | | | 40.8600 | | | | | |
| | 180.000 | | | 12.5200 | | 5.7880 | | | 3.6500 | | | | 2.1760 | | 1.3850 | |
| X/L | .1500 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | 3000 | .3500 | .3990 | .4010 | .4490 | .5000 | 5010 | .5970 | |
| PHI | .000 | 22.9200 | | 20.8600 | | 19.5100 | 18.0300 | 16.5900 | | 15.3300 | 15.0500 | 15.7700 | | | 15.2300 | |
| | 25.000 | | | | | | 19.4000 | | 17.2100 | | | | | | | |
| | 30.000 | | | | | 26.5800 | | | | | | | | | | |
| | 180.000 | 4.4600 | | 8.1990 | 9.1310 | | | | | | | | | | 1.1690 | |
| X/L | .6000 | .6990 | .7000 | .8000 | .9000 | 1.0000 | | | | | | | | | | |
| PHI | .000 | | 13.6400 | 12.6800 | 10.8700 | 7.9270 | | | | | | | | | | |
| | 25.000 | 15.0900 | | 13.5600 | | | | | | | | | | | | |
| | 180.000 | | 1.1750 | | | | | | | | | | | | | |

MACH (2) = 7.921 ALPHA (1) = 24.920 RE/FT = 7.3310 PO = 2181.0 T0 = 1560.0 H0 = 9.9040

| SECTION (1) FUSELAGE | | DEPENDENT VARIABLE QDOT | | | | | | | | | | | | | | |
|------------------------|---------|-------------------------|----------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|-------|---------|-------|
| X/L | | 0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | 1000 | 1030 | .1220 | .1260 | .1420 | .1500 |
| PHI | .000 | 101.0000 | 195.1000 | 69.3600 | | 25.6100 | | 19.9700 | 16.4700 | | | 13.8300 | 10.6500 | | .0000 | |
| | 30.000 | | | | | | | | | | 19.6200 | | | | | |
| | 180.000 | | | 4.6650 | | 1.9020 | | | 1.1550 | | | | 7257 | | 8956 | |
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | .4010 | .4490 | .5000 | .5010 | .5970 | |
| PHI | .000 | 22.6700 | | 23.1400 | | 23.7200 | 25.7100 | 23.5800 | | 26.5700 | 28.6700 | 26.5100 | | | 27.0400 | |
| | 25.000 | | | | | | 30.7700 | | 27.3600 | | | | | | | |
| | 30.000 | | | | | 20.3700 | | | | | | | | | | |
| | 180.000 | 5.3290 | | 5.2500 | 7.3510 | | | | | | | | | | 1.2270 | |

OH12/1H21 (CAL HST 173-100) 37 0 FUSELAGE (QJGB10)

MACH (2) = 7.921 ALPHA (1) = 24.920

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L 6000 .6990 7000 .8000 9000 1.0000

PHI
 000 26.9200 29.3200 21 7100 18 7600
 25 000 22 4200 27 2800
 180 000 6215

MACH (3) = 8 009 ALPHA (1) = 25 070 RE/FT = .99780 P0 = 900.90 T0 = 2772.0 H0 = 18.130

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L 0000 .0070 0190 .0300 0420 .0600 .0620 0810 .0910 .1000 1030 1220 .1260 .1420 .1500

PHI
 .000 0000 94.1900 57 3000 34 3200 25 8800 20.0600 17.3000 15.4500 14.1800
 30 000 23.1500
 180 000 6 8800 3 1560 1.7720 1.1300 6805

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 4010 .4490 .5000 .5010 .5970

PHI
 000 13 1500 12.2000 11.9500 10.7900 10.1800 9 0260 8 2270 8 0050 8.5930
 25 000 11 1600 9.2680
 30.000 16.6800
 180.000 3.6790 6 7060 7.3750 1.2200

X/L .6000 .6990 7000 .8000 9000 1.0000

PHI
 000 7.7360 6.3620 5 2690 3.2150
 25 000 7.7580 6 3320
 180 000 1 1160

MACH (4) = 10 450 ALPHA (1) = 25.030 RE/FT = .91170 P0 = 2714.0 T0 = 3466.0 H0 = 23 370

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L .0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI
 000 132.5000 124 6000 80.9100 42.4700 32.1700 26.1200 20.6500 17.0400 .0000
 30.000 32 6200
 180.000 7.7960 3.4620 2 0480 1.2940 .5574

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI
 .000 17.9800 19.4300 16.7600 15.7900 17 0100 12.6300 13.5800 13.9600 14

OH12/1H21 (CAL HST 173-100) 37 0 FUSELAGE

(QUGB10)

MACH (4) = 10.450 ALPHA (1) = 25 030

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 3500 3990 .4010 .4490 .5000 .5010 5970

PHI

25 000

30 000

180 000

15.3500 14.4000

21.9000

3 1190 8 0320 9 7850

1.0450

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI

000

25 000

180.000

12 7800 12.0500 8 7430 5.6870

14 0800 10.3500

.8744

MACH (5) = 12 220 ALPHA (1) = 25 030 RE/FT = .26170 PD = 1591.0 TD = 3838 0 HO = 26.430

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L .0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 1500

PHI

000

30 000

180 000

78 2000 73 8900 41 6700 24 7900 17.5600 13.2600 12 3200 10 5100 0000

17.9300

4 9200

2.6360

1.5310

.9471

.9637

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI

.000

25.000

30.000

180.000

10.2000 .0000 8.1250 8.2440 7.8360 8.5930 7.2780 8.1040 8.2380

8.1790

8.9230

12.1800

1.2480 2.2450 2 9120

.3195

X/L .6000 .6990 .7000 .8000 .9000 1.0000

PHI

.000

25.000

180.000

6.1930 5.9650 4.6010 2.7280

6.9820 5.7020

.4105

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/1H21 (CAL HST 173-100) 37 0 FUSELAGE (QUG811)

MACH (2) = 7 890 ALPHA (1) = 30 080

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L 6000 6990 7000 8000 9000 1 0000

PHI

000 10.1500 9 5010 7 3850 4 8490
25 000 10 2500 8 6170
180 000 .8511

MACH (3) = 7 922 ALPHA (1) = 30 000 RE/FT = 7.5500 P0 = 2310.0 T0 = 1591.0 H0 = 10 090

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L 0000 0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 1000 .1030 .1220 .1260 .1420 .1500

PHI

000 99 8700 115.7000 114.2000 57.2900 34 5400 34.4200 29.3200 30 3800 .0000
30.000 37 4000
180 000 3 8860 1 5760 1 0580 1.3750 1.3970

X/L 1600 .1610 .1700 .1810 2000 2010 2500 3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI

000 39.8300 36 6000 30 5900 37 6900 38.5700 36 2600 37 4700 39.8800 34.3700
25 000 41.1000 42.7100
30 000 36.6500
180 000 10 5200 7 5740 6.9260 1 2710

X/L 6000 6990 .7000 .8000 9000 1 0000

PHI

000 38.4700 40 9900 30.1100 28 6200
25 000 36 0600 37 7300
180 000 9908

MACH (4) = 10.520 ALPHA (1) = 30.100 RE/FT = 1.0520 P0 = 2686.0 T0 = 3202.0 H0 = 21.360

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L .0000 0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 1030 .1220 .1260 1420 1500

PHI

.000 113.1000 116.8000 74.2200 45.2700 31.8100 27.2000 22.7500 17.7800 .0000
30 000 33.5200
180 000 4.6400 2 5530 1.3580 .9519 1.0390

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 3000 .3500 .3990 .4010 .4490 .5000 5010 .5970

PHI

000 20.3500 21.7800 17.4700 17.5200 17.9300 14 8900 15 9200 .0000 13.

OH12/1H21 (CAL HST 173-100) 37 0 FUSELAGE

(QUG812) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = .0000 IN. ALPHA = 35.000 BETA = 000
 LREF = 1290 3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = 0000 IN.
 SCALE = .1000

MACH (1) = 6.993 ALPHA (1) = 35.050 RE/FT = .12520 PO = 363.90 TO = 5492.0 HO = 41.400

SECTION (1) FUSELAGE DEPENDENT VARIABLE CDOT

X/L .0000 .0070 .0190 .0300 .0420 .0600 .0820 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI

000 210 5000262.4000191.8000 117.9000 .0000 84.0500 0000 62 6400 51.7000

30 000

66 8100

180 000

6.3260

2 9520

2.0970

1.4940

1.7220

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI

000 49 5700 49 5600 43.6500 42 2100 38.8600 .0000 0000 37 4700 32 9600

25 000

.0000

53.4200

30 000

57 1600

180 000

5 0140

8 1240

9.1740

8248

X/L 6000 .6990 .7000 .8000 .9000 1 0000

PHI

000 .0000 .0000 0000 11 7300

25 000

32 4900

29.6000

180 000

1.2130

MACH (2) = 7.922 ALPHA (1) = 35.050 RE/FT = 7.5700 PO = 2199.0 TO = 1538.0 HO = 9.7660

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L 0000 .0070 .0190 .0300 .0420 .0600 .0820 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI

000 0000129 4000168.2000 47.9300 29.5300 29.5800 28 7400 31.2100 40.9800

30 000

37 0700

180 000

2.4730

1 0230

1.2400

1.9950

2.2590

X/L .1600 .1610 .1700 .1810 .2000 .2010 .2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI

000 42.3400 42.3000 33.1000 41.4300 44.5300 0000 40 7400 36.9600 47.1800

25 000

43 0400

43 1300

30 000

37 9500

180.000

9.6120

6.8210

5.7240

.6850

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE

(OUGB12)

MACH (2) = 7.922 ALPHA (1) = 35.050

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L 6000 .6990 .7000 8000 9000 1.0000

PHI
000 37.9900 40.9200 30.3600 27.0900
25.000 44.1400 36.6000
180.000 8805

MACH (3) = 8.058 ALPHA (1) = 35.050 RE/FT = 1.1090 P0 = 894.80 T0 = 2594.0 H0 = 16.850

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L 0000 .0070 .0190 .0300 .0420 .0500 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI
000 85.4500 .0000 0000 43.6600 0000 24.5100 0000 19.6100 24.3800
30.000 37.8500
180.000 2.5620 1.2860 .8554 .7523 1.4390

X/L 1600 .1610 .1700 .1810 2000 2010 2500 3000 .3500 3990 4010 4490 .5000 5010 5970

PHI
000 18.5800 22.8500 17.0900 19.3900 13.8800 17.8500 14.1700 12.9800 11.1100
25.000 21.6800 18.1200
30.000 20.9200
180.000 7.4290 9.0690 9.6720 1615

X/L .6000 .6990 .7000 .8000 9000 1.0000

PHI
000 9.0920 12.0700 7.4750 7.2250
25.000 10.5900 10.3100
180.000 .4454

MACH (4) = 10.730 ALPHA (1) = 30.100 RE/FT = 1.9260 P0 = 3618.0 T0 = 2727.0 H0 = 17.750

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L 0000 .0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 1420 .1500

PHI
000 104.4000 111.3000 77.6900 39.0700 32.0500 25.1900 20.7400 18.6400 .0000
30.000 32.3700
180.000 4.5800 2.1920 .9892 .9099 1.2820

X/L .1600 .1610 .1700 .1810 .2000 2010 2500 .3000 .3500 3990 4010 4490 5000 .5010 5970

PHI
000 19.0000 17.6000 15.2200 15.3700 14.1100 13.0500 14.6300 13.7900 12.8

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE

(QUGB12)

MACH (4) = 10 730 ALPHA (1) = 30 100

SECTION (1) FUSELAGE

DEPENDENT VARIABLE QDOT

X/L 1600 1610 .1700 .1810 2000 .2010 2500 .3000 .3500 .3990 .4010 4490 5000 .5010 .5970

PHI
 25 000 14.1800 12.5700
 30 000 21.7200
 180 000 5 5850 6 8350 7.7590 .6775

X/L 6000 6990 .7000 8000 .9000 1.0000

PHI
 000 10.3800 10 7900 8 9470 6.4920
 25 000 13 2500 9 2700
 180 000 7584

MACH (5) = 12 230 ALPHA (1) = 35 170 RE/FT = 26590 P0 = 1621 0 T0 = 3839 0 H0 = 26.440

SECTION (1) FUSELAGE

DEPENDENT VARIABLE QDOT

X/L 0000 0070 .0190 0300 .0420 0600 0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI
 000 64 4000 67 7200 52.0300 31 2400 22.2000 19.0900 16.2900 16.3500 .0000
 30 000 21.3700
 180 000 2.4730 1 2120 .9224 .6219 .6424

X/L 1600 .1610 .1700 .1810 2000 .2010 2500 .3000 .3500 .3990 4010 .4490 .5000 .5010 .5970

PHI
 000 14 1000 13.0000 11 4100 11.1900 10 5300 10.3200 9 1500 8.6960 8 0510
 25 000 12.0000 10.8000
 30 000 12 8300
 180 000 1.3320 2.0950 2.6780 2903

X/L .6000 6990 7000 .8000 .9000 1.0000

PHI
 000 8 2330 7.1150 6.0440 4.4070
 25 000 8.3020 7.5790
 180.000 .3840

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 388

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE

(00813)

MACH (2) = 8.024 ALPHA (1) = 40.000

SECTION (1) FUSELAGE

DEPENDENT VARIABLE QDOT

X/L 6000 6990 7000 8000 9000 1.0000

PHI

 .000 25.4700 32.6500 28.2300 15.7700
 25.000 20.5600 22.8900
 180.000 .4015

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 389

OH12/IH21 (CAL HST 173-100) 37 0 T FUSELAGE

(QU0814) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = 0000 IN
 LREF = 1290.3000 IN. YMRP = 0000 IN
 BREF = 1290 3000 IN ZMRP = 0000 IN.
 SCALE = .1000

ALPHA = 000 BETA = 000

MACH (1) = 16 050 ALPHA (1) = .083 RE/FT = .46340-01 PO = 577.10 TO = 3699 0 HO = 25 320

SECTION (1) FUSELAGE

DEPENDENT VARIABLE QDOT

| X/L | .0000 | .0070 | .0190 | .0300 | .0420 | .0600 | .0620 | .0810 | .0910 | .1000 | 1030 | .1220 | .1260 | .1420 | .1500 |
|---------|--------|---------|---------|---------|--------|--------|--------|-------|--------|--------|------|-------|--------|-------|--------|
| PHI | .000 | 25.8100 | 11.6100 | 5 6230 | 1 9550 | 1 5220 | 1.3310 | | | | 9372 | .2278 | | 0000 | |
| 30 000 | | | | | | | | | | 1 7680 | | | | | |
| 180 000 | | | | 6 5410 | | 4 8840 | | | 4 0000 | | | | 2 4510 | | 2 2610 |
| X/L | .1600 | .1610 | .1700 | .1810 | .2000 | .2010 | .2500 | .3000 | .3500 | .3990 | 4010 | 4490 | .5000 | 5010 | .5970 |
| PHI | .000 | .5489 | | | 6669 | | 5127 | .4641 | .2637 | | 1885 | 2099 | .0833 | | 0263 |
| 25.000 | | | | | | | | .3369 | | .2469 | | | | | |
| 30 000 | | | | | | 6431 | | | | | | | | | |
| 180 000 | 5 0270 | | 9 9880 | 13.5000 | | | | | | | | | | | 1948 |
| X/L | .6000 | .6990 | 7000 | 8000 | 9000 | 1 0000 | | | | | | | | | |
| PHI | .000 | | 0305 | 0397 | .0717 | .0775 | | | | | | | | | |
| 25 000 | .0275 | | | 0256 | | | | | | | | | | | |
| 180 000 | | .2465 | | | | | | | | | | | | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE (QUGB15) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = 0000 IN.
LREF = 1290.3000 IN YMRP = 0000 IN.
BREF = 1290 3000 IN. ZMRP = .0000 IN
SCALE = 1000

ALPHA = 25 000 BETA = .000

MACH (1) = 12 030 ALPHA (1) = 25.030 RE/FT = .95540 PO = 4211.0 TO = 3477 0 HO = 23.460

SECTION (1) FUSELAGE

DEPENDENT VARIABLE QDOT

X/L 0000 0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 1420 1500

PHI

.000 106 0000134 6000 61 5600 35.3800 25 8700 19 6400 17 8900 14.7900 .0000

30 000

28 5700

180 000

6.5360

3.8770

2.2650

1.1380

.7935

X/L 1600 1610 .1700 .1810 2000 .2010 .2500 3000 .3500 3990 4010 .4490 5000 .5010 5970

PHI

.000 15.2100 15.2400 16.2400 15.6200 12 5800 9.9150 11 9700 13 2400 10 7100

25 000

12 6300

12.6700

30 000

18 4300

180 000

1 7420

8 0520

10.4300

.7993

X/L 6000 6990 7000 .8000 .9000 1 0000

PHI

.000 9 6160 9 7700 6.9250 5.1550

25 000

8 8920

10 2600

180 000

1 0320

MACH (2) = 15.720 ALPHA (1) = 25 030 RE/FT = 23850 PO = 2417.0 TO = 3531.0 HO = 23.940

SECTION (1) FUSELAGE

DEPENDENT VARIABLE QDOT

X/L 0000 0070 .0190 .0300 .0420 .0600 .0620 .0810 .0910 .1000 .1030 .1220 .1260 .1420 1500

PHI

.000 45 6800 44 9100 26 5000 14 8000 9.5920 9 0280 7.4860 5 7410 .0000

30 000

11.6300

180 000

3.0590

1.5710

1.0070

.6090

.6760

X/L .1600 1610 1700 .1810 .2000 .2010 2500 .3000 .3500 .3990 .4010 .4490 .5000 .5010 .5970

PHI

.000 6 4190 5 2940 5 4260 5 5840 4.5860 4.4460 4.6420 4.4620 3.4070

25 000

4.9300

4.2730

30 000

7.3950

180 000

1 0560

1 4180

1.5510

.1944

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 391

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE

(QUGB15)

MACH (2) = 15.720 ALPHA (1) = 25.030

SECTION (1) FUSELAGE

DEPENDENT VARIABLE QDOT

X/L 6000 .6990 7000 8000 .9000 1.0000

PHI

.000 3.9140 3 7510 2 7760 1 8340

25 000 3 5460 3 2150

180.000 , 2137

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE (QUGB16) (16 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = .0000 IN ALPHA = 30 000 BETA = .000
 LREF = 1290 3000 IN YMRP = 0000 IN.
 BREF = 1290 3000 IN ZMRP = 0000 IN
 SCALE = 1000

MACH (1) = 12.030 ALPHA (1) = 30 100 RE/FT = 96300 P0 = 4246.0 T0 = 3477 0 H0 = 23 460

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L 0000 0070 0190 0300 0420 .0600 0620 .0810 0910 1000 .1030 .1220 1260 .1420 .1500

PHI

.000 91 3700 106.8000 59 4000 35 5000 28 7700 23.0800 19 8400 15 8300 .0000
 30 000 29 7300
 180 000 3.6610 1.9430 1 1240 8392 1.0930

X/L .1600 .1610 .1700 .1810 2000 2010 .2500 .3000 .3500 .3990 .4010 .4490 5000 .5010 .5970

PHI

.000 17 5800 18 6600 14 8600 14.2700 13 9200 10 3000 12 9500 10 8900 8.8040
 25 000 12.8300 13 5600
 30 000 20 1800
 180.000 3.2040 5 2610 5.6760 5109

X/L .6000 .6990 .7000 .8000 9000 1.0000

PHI

.000 10 7800 9.6190 7.0820 4 1210
 25 000 9 8910 12.0200
 180 000 .8761

MACH (2) = 15.720 ALPHA (1) = 30.100 RE/FT = .24490 P0 = 2491 0 T0 = 3535.0 H0 = 23 970

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L 0000 0070 .0190 0300 .0420 0600 .0620 0810 .0910 .1000 .1030 .1220 .1260 .1420 .1500

PHI

.000 46 6000 47.7600 31 1600 19.1200 14.5200 11 8600 9 6590 9.4770 0000
 30 000 12 2900
 180.000 2.4070 1 3610 .8246 5442 .5382

X/L .1600 .1610 1700 .1810 .2000 .2010 2500 .3000 .3500 .3990 4010 4490 .5000 .5010 5970

PHI

.000 8 6440 7.9170 6.2590 6.3020 6.0970 4 9570 5.4640 5.3510 4 3800
 25 000 6.2810 7.0480
 30 000 8.5940
 180.000 .6593 .8668 1.2290 .1711

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 393

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE

(QUGB16)

MACH (2) = 15.720 ALPHA (1) = 30 100

SECTION (1) FUSELAGE

DEPENDENT VARIABLE QOOT

| X/L | .6000 | .6990 | 7000 | .8000 | .9000 | 1.0000 |
|---------|--------|-------|--------|--------|--------|--------|
| PHI | | | | | | |
| .000 | | | 4 6560 | 4 6340 | 2.9540 | 2.4450 |
| 25.000 | 4 7640 | | | 4.0950 | | |
| 180 000 | | .2078 | | | | |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE (DUGB17) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN ALPHA = 35.000 BETA = 000
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN
 SCALE = .1000

MACH (1) = 12.060 ALPHA (1) = 35.170 RE/FT = .98280 PO = 4058.0 TO = 3362.0 HO = 22.590

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L .0000 0070 .0190 0300 0420 .0600 0620 0810 .0910 .1000 1030 1220 .1260 .1420 1500

PHI

000 98.3600 105.3000 73.8700 47.7900 33.4800 29.9200 22.1500 21.3500 0000

30.000 29.3700

180.000 4.4620 1.8840 1.3110 1.2530 1.6620

X/L 1600 .1610 1700 1810 2000 2010 .2500 .3000 .3500 3990 .4010 .4490 .5000 .5010 .5970

PHI

000 23.7900 23.6000 21.2600 19.7400 16.8300 16.4400 16.1500 16.2600 10.7300

25.000 18.8600 18.9900

30.000 26.9800

180.000 6.2230 9.1460 0000 .4910

X/L 6000 .6990 7000 .8000 .9000 1.0000

PHI

.000 13.0600 13.0300 9.3800 7.3120

25.000 14.1800 12.0000

180.000 6.613

MACH (2) = 15.740 ALPHA (1) = 35.170 RE/FT = 25440 PO = 2551.0 TO = 3510.0 HO = 23.780

SECTION (1) FUSELAGE DEPENDENT VARIABLE QDOT

X/L .0000 0070 .0190 .0300 .0420 0600 .0620 .0810 .0910 1000 1030 1220 .1260 .1420 .1500

PHI

000 40.4000 44.5100 30.5200 19.8700 13.1700 12.3900 11.0600 10.9500 0000

30.000 14.7100

180.000 1.8670 8426 .6452 .3667 .4310

X/L .1600 1610 .1700 .1810 2000 .2010 2500 .3000 .3500 3990 .4010 .4490 .5000 .5010 .5970

PHI

000 9.2420 8.0510 6.4140 7.6700 6.6220 6.3070 6.5890 5.5730 6.0040

25.000 7.3350 6.4810

30.000 13.8100

180.000 4.992 1.1920 1.2250 .1220

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 395

OH12/IH21 (CAL HST 173-100) 37 0 FUSELAGE

(QUG817)

MACH (2) = 15 740 ALPHA (1) = 35 170

SECTION (1) FUSELAGE

DEPENDENT VARIABLE QDOT

X/L 6000 6990 .7000 .8000 9000 1.0000

PHI

000 5.6010 4.9510 3.9800 2.9230

25 000 5 2760 4.4480

180.000 1442

OH12/1H21 (CAL HST 173-100) 37 0 T-NP WING L S.

(OUGW04) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT
 LREF = 1290 3000 IN.
 BREF = 1290 3000 IN
 SCALE = 1000

XMRP = 0000 IN.
 YMRP = 0000 IN.
 ZMRP = 0000 IN.

ALPHA = 000 BETA = 000

MACH (1) = 18 360 ALPHA (1) = 083 RE/FT = .12410-01 PO = 360 50 T0 = 4449.0 H0 = 31.530

SECTION (1) WING L S

DEPENDENT VARIABLE QDOT

X/C 0000 0380 0420 0670 1010 .1460 .1610 .1900 2020 2110 3040 .3130 .3160 .4400 4510

2Y/B

247 .0908
 248 .2292 0484
 396 .0000
 .399 .0962
 .412 2735
 .498 1852
 499 6820
 599 .3446 .2648
 738 1.7520
 .750 5382
 849 0000
 .948 2.1240
 1 000 6576

X/C 4970 .5160 .5360 .5680 5950 6120 .7110 .7160 .8840 9060 .9120

2Y/B

248 .0433
 249 .0281
 399 0505
 .400 .1025
 500 1862 .1252
 599 .1548
 .601 .2540
 749 .3394
 .848 6198
 950 .7841

OH12/IH21 (CAL HST 173-100) 37 0 T WING L S.

(OUGH05) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = 0000 IN
 LREF = 1290 3000 IN YMRP = 0000 IN
 BREF = 1290 3000 IN ZMRP = 0000 IN
 SCALE = 1000

ALPHA = 000 BETA = 000

MACH (1) = 6 999 ALPHA (1) = 050 RE/FT = 12050 PO = 357 80 TO = 5538 0 HO = 41 770

SECTION (1) WING L.S

DEPENDENT VARIABLE QDOT

X/C 0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 3040 .3130 3160 .4400 .4510

2Y/B

247 1 2100
 248 2 6760 1 0730
 396 5 9690
 399 4 3520
 412 17.2600
 498 .0000
 499 31.7800
 599 9.6210 6 7740
 738 43.8100
 750 10 9800
 849 .0000
 948 29.8800
 1.000 16.7000

X/C 4970 5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

248 1 5030
 249 1.8410
 .399 1.5760
 400 5465
 .500 5.3510 2.7300
 599 2.2590
 601 .0000
 749 5.7730
 .848 10 5800
 950 12 1000

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.S (OUGH05)

MACH (2) = 7 616 ALPHA (1) = 050 RE/FT = 1 2040 PO = 519.30 TO = 2007 0 HO = 12.750

SECTION (1) WING L S DEPENDENT VARIABLE QDOT

X/C 0000 .0380 .0420 .0670 1010 .1460 1610 .1900 .2020 2110 3040 3130 .3160 .4400 4510

2Y/B

247
 .248
 396
 399
 412
 498
 499 10 6800
 599
 738
 750
 849
 948
 1 000 5 2180

6371
 4970
 1 0990
 4554
 .0000
 3 1230
 1 7760
 2 9580
 .0000
 8.8480

X/C 4970 .5160 5360 5680 .5950 6120 .7110 7160 8840 .9060 9120

2Y/B

248
 249
 399
 400
 500 1 1960
 599
 601
 749
 848
 950

.8725
 1.3340
 2.1280
 .0000
 1 6580
 1.8090
 .5066

MACH (3) = 18 330 ALPHA (1) = .083 RE/FT = 12100-01 PO = 346.80 TO = 4436.0 HO = 31.410

SECTION (1) WING L S DEPENDENT VARIABLE QDOT

X/C 0000 .0380 .0420 .0670 1010 .1460 1610 1900 .2020 .2110 3040 .3130 3160 .4400 4510

2Y/B

247
 248
 396
 399
 .412
 .498
 499 5371
 599
 738
 .750

0556
 .1497
 .0000
 .1316
 .3018
 .2088
 .3703
 .2333
 1.4900
 .4617

OH12/IH21 (CAL HST 173-100) 37 0 T WING L S.

(QUGH05)

MACH (3) = 18.330 ALPHA (1) = .083

SECTION (1) WING L S

DEPENDENT VARIABLE QDOT

X/C .0000 0380 .0420 .0670 .1010 1460 .1610 1900 .2020 .2110 .3040 .3130 3160 4400 .4510

2Y/B

.849

.948

1.000

6588

0000

1 8600

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248

.249

.399

.400

.500

.599

.601

.749

.848

.950

1962

5384

8952

.0250

0755

.1160

.2352

.2555

.0233

0191

.1018

MACH (4) = 19.200 ALPHA (1) = .083 RE/FT = .43200-01 P0 = 1602 0 T0 = 4694.0 H0 = 33.500

SECTION (1) WING L S

DEPENDENT VARIABLE QDOT

X/C .0000 0380 0420 .0670 .1010 1460 1610 1900 .2020 .2110 .3040 .3130 3160 4400 .4510

2Y/B

.247

.248

.396

.399

.412

.498

.499

.599

.738

.750

.849

.948

1.000

1 8680

.0000

1.0270

.0000

3.3970

.4165

.8875

1.2280

.1463

.0000

.3993

.8636

1.7170

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 9120

2Y/B

.248

.249

.399

.0496

.0645

.1710

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.S

(OUGW06) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT XMRP = 0000 IN
 LREF = 1290.3000 IN YMRP = .0000 IN
 BREF = 1290.3000 IN ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 5 000 BETA = .000

MACH (1) = 19.220 ALPHA (1) = -5 083 RE/FT = .43430-01 PD = 1614.0 T0 = 4695 0 H0 = 33.500

SECTION (1) WING L.S.

DEPENDENT VARIABLE QDOT

| X/C | 0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|-------|-------|-------|--------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | 1928 | | | | 0519 |
| 248 | | | | | | | 5043 | | | | | | | | |
| 396 | | | | | | | | | | .0000 | | | | | |
| 399 | | | | | | | | | | | | .4024 | | | |
| 412 | | | | 1.2760 | | | | | | | | | | | |
| 498 | | | | | | | | 1 0820 | | | | | | | |
| 499 | | .0000 | | | | | | | | | | | | | |
| 599 | | | | | | | | | 1.3430 | | | | | | .9091 |
| 738 | | | .0000 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | 1.7510 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| 948 | | | | | | 4.8050 | | | | | | | | | |
| 1 000 | 2.7180 | | | | | | | | | | | | | | |
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| 248 | | | | | | | | | .0649 | | | | | | |
| .249 | | | | | .0571 | | | | | | | | | | |
| 399 | | | | | | | | | | .1055 | | | | | |
| .400 | | | | .3193 | | | | | | | | | | | |
| .500 | .7467 | | | | | | .3848 | | | | | | | | |
| 599 | | | | | | | | | | | .2815 | | | | |
| 601 | | | | | | .6622 | | | | | | | | | |
| .749 | | | | | | | | .9136 | | | | | | | |
| 848 | | 1 6440 | | | | | | | | | | | | | |
| .950 | | | 2.8710 | | | | | | | | | | | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L S.

(OUGH07) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT XMRP = 0000 IN.
 LREF = 1290 3000 IN YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 000 BETA = 000

MACH (1) = 6 997 ALPHA (1) = .050 RE/FT = .13020 PO = 384 80 TO = 5526.0 HO = 41 700

SECTION (1) WING L S.

DEPENDENT VARIABLE QDOT

X/C .0000 0380 .0420 0670 1010 .1460 .1610 .1900 2020 .2110 .3040 3130 .3160 .4400 4510

2Y/B

247 3 5040
 .248 5.9630 2 8430
 .396 4.9700
 .399 5.7350
 .412 26.9000
 .498 0000
 .499 47 3200
 .599 .0000 .0000
 738 42 6000
 .750 14.3000
 .849 33.7000
 948 26.7900
 1 000 19.3600

X/C .4970 .5160 5360 5680 5950 6120 7110 .7160 .8840 9060 .9120

2Y/B

248 1.7750
 249 2 7190
 399 1.9560
 400 5.8720
 500 .0000 .0000
 .599 2.3900
 601 5 8610
 .749 5.2070
 .848 8.6090
 950 9.5580

OH12/IH21 (CAL HST 173-100) 37 0 WING L S (OUGW07)
 MACH (2) = 7.614 ALPHA (1) = .050 RE/FT = 1.2320 PO = 534.30 TO = 2015.0 HO = 12.800

SECTION (1) WING L S. DEPENDENT VARIABLE QDOT

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247
 .248
 .396
 .399
 .412
 .498
 .499
 .599
 .738
 .750
 .849
 .948
 1.000
 1.247
 2.48
 3.96
 3.99
 4.12
 4.98
 4.99
 5.99
 7.38
 7.50
 8.49
 9.48
 10.00
 14.1000
 1.6660
 1.6730
 1.3370
 7750
 3.3230
 3.6410
 9.6160
 9.9900
 7.6140
 6.6730
 1.9001
 2.4120
 4.2810

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248
 .249
 .399
 .400
 .500
 .599
 .601
 .749
 .848
 .950
 2.3250
 9.114
 1.2620
 1.5340
 1.4090
 1.6800
 2.9070
 3.2380
 6.457
 .5660
 8705

MACH (3) = 16.060 ALPHA (1) = .083 RE/FT = .44180-01 PO = 560.00 TO = 3731.0 HO = 25.530

SECTION (1) WING L S. DEPENDENT VARIABLE QDOT

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247
 .248
 .396
 .399
 .412
 .498
 .499
 .599
 .738
 .750
 5.9600
 1.2390
 1.4080
 1.5290
 1.3710
 .0000
 .3906
 .6174
 .3075
 .9014
 2.0020

OH12/IH21 (CAL HST 173-100) 37 0 WING L S

(OUGW07)

MACH (3) = 16.060 ALPHA (1) = 083

SECTION (1) WING L S.

DEPENDENT VARIABLE QDOT

| X/C | .0000 | .0380 | .0420 | .0670 | 1010 | 1460 | .1610 | 1900 | .2020 | 2110 | .3040 | .3130 | 3160 | 4400 | 4510 |
|-----|-------|-------|-------|-------|------|------|-------|------|-------|------|-------|-------|------|------|------|
|-----|-------|-------|-------|-------|------|------|-------|------|-------|------|-------|-------|------|------|------|

2Y/B

.849

.948

000

1.7280

0000

2 3320

| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | 6120 | .7110 | .7160 | 8840 | .9060 | 9120 |
|-----|-------|-------|-------|-------|-------|------|-------|-------|------|-------|------|
|-----|-------|-------|-------|-------|-------|------|-------|-------|------|-------|------|

2Y/B

.248

.249

.399

400

500

.599

601

749

848

.950

1 0740

.8937

.3015

.4857

6230

8744

1 3370

.2235

.2066

.3902

MACH (4) = 18 310 ALPHA (1) = .067 RE/FT = .12290-01 P0 = 348.20 TO = 4417.0 HO = 31.290

SECTION (1) WING L S.

DEPENDENT VARIABLE QDOT

| X/C | .0000 | .0380 | .0420 | .0670 | 1010 | 1460 | .1610 | 1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-----|-------|-------|-------|-------|------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
|-----|-------|-------|-------|-------|------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

.247

.248

.396

.399

412

498

499

599

738

750

849

948

1 000

.6534

3.0170

.6207

8054

0000

1.5990

.4706

1.5930

.2178

.0000

.3447

.8786

1.1040

1795

| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

.248

.249

.399

.1666

1483

.0885

OH12/IH21 (CAL HST 173-100) 37 0 WING L S

(OUGH071)

MACH (4) = 18.310 ALPHA (1) = .067

SECTION (1) WING L S DEPENDENT VARIABLE QDOT

| | | | | | | | | | | | |
|------|------|-------|--------|-------|-------|------|------|-------|------|------|-------|
| X/C | 4970 | .5160 | .5360 | .5680 | .5950 | 6120 | 7110 | .7160 | 8840 | 9060 | .9120 |
| 2Y/B | | | | | | | | | | | |
| 400 | | | | .3295 | | | | | | | |
| 500 | 4131 | | | | | | 3420 | | | | |
| .599 | | | | | | | | | | | .1727 |
| .601 | | | | | | 7703 | | | | | |
| .749 | | | | | | | | 8817 | | | |
| .848 | | .7675 | | | | | | | | | |
| 950 | | | 1.1660 | | | | | | | | |

MACH (5) = 19.190 ALPHA (1) = .067 RE/FT = .44400-01 PO = 1603 0 TO = 4644 0 HO = 33 120

SECTION (1) WING L S DEPENDENT VARIABLE QDOT

| | | | | | | | | | | | | | | | |
|-------|--------|--------|--------|--------|------|--------|-------|--------|--------|------|-------|--------|-------|--------|-------|
| X/C | 0000 | 0380 | .0420 | .0670 | 1010 | .1460 | .1610 | .1900 | 2020 | 2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | |
| 247 | | | | | | | | | | | 3707 | | | | |
| 248 | | | | | | | .4263 | | | | | | | | 3200 |
| 396 | | | | | | | | | | 0000 | | | | | |
| 399 | | | | | | | | | | | | .7086 | | | |
| 412 | | | | 1.3430 | | | | | | | | | | | |
| 498 | | | | | | | | 1 3130 | | | | | | | |
| 499 | | 5 7260 | | | | | | | | | | | | | |
| 599 | | | | | | | | | 1.9460 | | | | | 1.3540 | |
| 738 | | | 5 5940 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | 1 6320 | | | |
| 849 | | | | | 0000 | | | | | | | | | | |
| .948 | | | | | | 3.9430 | | | | | | | | | |
| 1 000 | 1 6200 | | | | | | | | | | | | | | |

X/C .4970 .5160 .5360 .5680 5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

| | | | | | | | | | | | | | | | |
|-----|-------|--------|--------|-------|--|--------|------|-------|-------|--|-------|--|--|--|-------|
| 248 | | | | | | | | | .3033 | | | | | | |
| 249 | | | | | | | 3829 | | | | | | | | |
| 399 | | | | | | | | | | | .2391 | | | | |
| 400 | | | | .5031 | | | | | | | | | | | |
| 500 | .8293 | | | | | | | .5071 | | | | | | | .4566 |
| 599 | | | | | | | | | | | | | | | |
| 601 | | | | | | 1.0410 | | | | | | | | | |
| 749 | | | | | | | | | .8374 | | | | | | |
| 848 | | 1 3300 | | | | | | | | | | | | | |
| 950 | | | 1.4440 | | | | | | | | | | | | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(OUGH08) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 0000 IN
 LREF = 1290.3000 IN YMRP = .0000 IN
 BREF = 1290.3000 IN ZMRP = .0000 IN
 SCALE = .1000

ALPHA = 5 000 BETA = .000

MACH (1) = 19 180 ALPHA (1) = -5 050 RE/FT = 45790-01 PO = 1649 0 TO = 4641 0 HO = 33 120

SECTION (1) WING L S

DEPENDENT VARIABLE QDOT

X/C ' .0000 .0380 0420 .0670 1010 .1460 1610 1900 2020 .2110 .3040 3130 3160 4400 4510

2Y/B

247
 248
 396
 399
 412
 498
 499 3 3740
 599
 .738
 750
 849
 948
 1 000 2 0260

X/C 4970 .5160 5360 5680 .5950 6120 .7110 7160 .8840 9060 9120

2Y/B

248
 249
 399
 400
 500 4773
 599
 601 -
 749
 848
 950

OH12/IH21 (CAL HST 173-100) 37 0 WING L S

(OUGW10) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT XMRP = .0000 IN.
 LREF = 1290 3000 IN YMRP = .0000 IN
 BREF = 1290 3000 IN ZMRP = 0000 IN
 SCALE = 1000

ALPHA = 25.000 BETA = .000

MACH (1) = 6.973 ALPHA (1) = 25.070 RE/FT = .12370 PO = 373 20 TO = 5587.0 HO = 42.320

SECTION (1) WING L S.

DEPENDENT VARIABLE QDOT

X/C 0000 0380 0420 .0670 1010 .1460 1610 .1900 2020 .2110 .3040 .3130 .3160 .4400 4510

2Y/B

.247 20 0000
 .248 23 8400 17.1000
 396
 399 23 8700
 .412 61.5900 21 7700
 .498 46 1700
 499 123 6000
 599 37.5400 33.1600
 738 114 5000
 750 28.1500
 849 75.4700
 .948 58.2600
 1 000 7 6610

X/C .4970 .5160 .5360 5680 .5950 .6120 7110 .7160 8840 .9060 9120

2Y/B

248 11 8400
 249 16 6500
 .399 10.5300
 .400 19 2400
 .500 31 7600 26.8300
 599 12.6600
 .601 20.4400
 749 19.5100
 848 23 4500
 .950 35.8000

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S (OUGH10)

MACH (2) = 7.921 ALPHA (1) = 24.920 RE/FT = 7.3310 PO = 2181 0 TO = 1560 0 HO = 9.9040

SECTION (1) WING L.S. DEPENDENT VARIABLE QDOT

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247

.248

.396

.399

.412

.498

.499

.599

.738

.750

.849

.948

11.000

| | | | | | | | | | | | | | | |
|--|----------|--|---------|---------|---------|---------|-------|-------|---------|---------|---------|--|---------|---------|
| | | | | | | | | | | 27.4400 | | | | |
| | | | | | | 29.8200 | | | | | | | | 30.3700 |
| | | | | | | | | | 45.7000 | | | | | |
| | | | | 55.3600 | | | | | | | 38.5200 | | | |
| | | | | | | | .0000 | | | | | | | |
| | 108.0000 | | | | | | | | | | | | | |
| | | | 50.3800 | | | | | .0000 | | | | | | 51.5100 |
| | | | | | | | | | | | | | 42.8300 | |
| | | | | | .0000 | | | | | | | | | |
| | | | | | 36.9800 | | | | | | | | | |
| | 3.3080 | | | | | | | | | | | | | |

X/C 4970 .5160 .5360 .5680 .5950 6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248

.249

.399

.400

.500

.599

.601

.749

.848

.950

| | | | | | | | | | | | | | | |
|---------|---------|---------|---------|---------|--|---------|---------|---------|---------|---------|--|--|--|--|
| | | | | | | | | 25.7000 | | | | | | |
| | | | | 35.2600 | | | | | | | | | | |
| | | | | | | | | | 18.4500 | | | | | |
| | | | 43.0200 | | | | | | | | | | | |
| 58.2500 | | | | | | 39.6500 | | | | | | | | |
| | | | | | | | | | | 20.3900 | | | | |
| | | | | | | .0000 | | | | | | | | |
| | | | | | | | 30.9800 | | | | | | | |
| | 42.7700 | | | | | | | | | | | | | |
| | | 42.4800 | | | | | | | | | | | | |

MACH (3) = 8.009 ALPHA (1) = 25.070 RE/FT = .99780 PO = 900.90 TO = 2772.0 HO = 18.130

SECTION (1) WING L.S. DEPENDENT VARIABLE QDOT

X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247

.248

.396

.399

.412

.498

.499

.599

.738

.750

| | | | | | | | | | | | | | | |
|--|---------|--|---------|---------|--|---------|---------|---------|---------|---------|--|---------|---------|--------|
| | | | | | | | | | | 11.3500 | | | | |
| | | | | | | 15.6800 | | | | | | | | 9.1400 |
| | | | | | | | | | 11.9600 | | | | | |
| | | | | 35.9200 | | | | | | | | 13.6100 | | |
| | | | | | | | 28.3400 | | | | | | | |
| | 70.6700 | | | | | | | | | | | | | |
| | | | | | | | | 19.0000 | | | | | 18.6500 | |
| | | | 48.5600 | | | | | | | | | | | |
| | | | | | | | | | | | | | 13.4800 | |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (OUGH10)

MACH (3) = 8 009 ALPHA (1) = 25.070

SECTION (1) WING L.S DEPENDENT VARIABLE QDOT

X/C .0000 0380 .0420 .0670 .1010 .1460 1610 .1900 .2020 .2110 .3040 .3130 .3160 4400 4510

2Y/B

.849 42.3700
 .948 27 8600
 1.000 3 3830

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 7160 8840 .9060 .9120

2Y/B

.248 6 3070
 .249 8 1680
 .399 5 1500
 .400 10 9800
 .500 18 4900 17.4000
 .599 6.5980
 .601 13 0100
 .749 9.1690
 .848 20 0600
 .950 20.9100

MACH (4) = 10 450 ALPHA (1) = 25.030 RE/FT = 91170 P0 = 2714 0 T0 = 3466.0 H0 = 23.370

SECTION (1) WING L.S DEPENDENT VARIABLE QDOT

X/C 0000 0380 .0420 .0670 1010 1460 .1610 .1900 2020 2110 .3040 .3130 .3160 .4400 .4510

2Y/B

.247 20.1300
 .248 23.0200 15.5100
 .396 .0000
 .399 20.8500
 .412 45.9500
 .498 34.4200
 .499 113.6000
 .599 26 0400 24.7100
 .738 66 6600
 .750 27 7800
 .849 .0000
 .948 40.8900
 1 000 5.1740

X/C .4970 .5160 .5360 .5680 .5950 .6120 7110 .7160 .8840 .9060 .9120

2Y/B

.248 9.9510
 .249 14.9900
 .399 7.0710

OH12/1H21 (CAL HST 173-100) 37 0 WING L S

(OUGH10)

MACH (4) = 10.450 ALPHA (1) = 25.030

SECTION (1) WING L S DEPENDENT VARIABLE QDOT

X/C 4970 5160 5360 .5680 5950 6120 .7110 7160 .8840 9060 9120

2Y/B

400 16 0300
.500 29 8100 , 25.0000
599 9 2560
601 21 0500
749 15 9700
848 18.5900
.950 .0000

MACH (5) = 12.220 ALPHA (1) = 25 030 RE/FT = 26170 P0 = 1591 0 T0 = 3836 0 H0 = 26 430

SECTION (1) WING L.S DEPENDENT VARIABLE QDOT

X/C 0000 0380 .0420 0670 .1010 1460 1610 1900 2020 2110 3040 .3130 .3160 .4400 .4510

2Y/B

247 9.2590
.248 11 2400 7.8840
.396 .0000
.399 7.8280
.412 26 0100
.498 20 1600
499 55.5200
.599 13 6200 13 2900
738 42.0900 8.0340
.750
.849 .0000
.948 22 5700
1.000 3.2150

X/C .4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 9120

2Y/B

248 4 7480
249 7.3000
399 3.7790
.400 7 9050
500 15.1800 11.1700
599 5.7790
601 11.0600
749 7.6370
848 10.4000
950 12.8700

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (QUGH10)

MACH (6) = 16.020 ALPHA (1) = 25.030 RE/FT = 44700-01 PO = 565 60 TO = 3735 0 HO = 25.590

SECTION (1) WING L.S. DEPENDENT VARIABLE QDOT

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-------|-------|---------|---------|--------|-------|--------|--------|--------|--------|-------|--------|--------|--------|-------|--------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | 2 3660 | | | | |
| .248 | | | | | | | 2.8840 | | | | | | | | 2.1120 |
| .396 | | | | | | | | | | 0000 | | | | | |
| .399 | | | | | | | | | | | | 2 9720 | | | |
| .412 | | | | 5.5470 | | | | | | | | | | | |
| .498 | | | | | | | | 5.9940 | | | | | | | |
| .499 | | 17 0100 | | | | | | | | | | | | | |
| .599 | | | | | | | | | 4 3180 | | | | | | 3.9710 |
| .738 | | | 11 1500 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | 3.1900 | | |
| .849 | | | | | 0000 | | | | | | | | | | |
| .948 | | | | | | 5.7190 | | | | | | | | | |
| 1 000 | .9813 | | | | | | | | | | | | | | |

| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 2Y/B | | | | | | | | | | | |
| .248 | | | | | | | | | 1.3250 | | |
| .249 | | | | | 2.3220 | | | | | | |
| .399 | | | | | | | | | | 1.1040 | |
| .400 | | | | 2.6150 | | | | | | | |
| .500 | 3.9190 | | | | | | 2.5520 | | | | |
| .599 | | | | | | | | | | 1.4230 | |
| .601 | | | | | | 3.2010 | | | | | |
| .749 | | | | | | | | 2.0730 | | | |
| .848 | | 3 0380 | | | | | | | | | |
| .950 | | | 3 6060 | | | | | | | | |

MACH (7) = 19.180 ALPHA (1) = 25.000 RE/FT = 44510-01 PO = 1618.0 TO = 4658.0 HO = 33.250

SECTION (1) WING L.S. DEPENDENT VARIABLE QDOT

| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|------|-------|-------|---------|--------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|--------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | .0000 | | | | |
| .248 | | | | | | | .0000 | | | | | | | | 2.8020 |
| .396 | | | | | | | | | | | .0000 | | | | |
| .399 | | | | | | | | | | | | | .0000 | | |
| .412 | | | | 7.9180 | | | | | | | | | | | |
| .498 | | | | | | | | 4.1160 | | | | | | | |
| .499 | | .0000 | | | | | | | | | | | | | |
| .599 | | | | | | | | | .0000 | | | | | | .0000 |
| .738 | | | 13 7100 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | 4.8370 | | |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 413

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(QUGH10)

MACH (7) = 19.180 ALPHA (1) = 25.000

SECTION (1) WING L.S.

DEPENDENT VARIABLE QDOT

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

.849

.948

1.000 1.1320

| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

.248

.249

.399

.400

.500

.599

.601

.749

.848

.950

0000

.0000

4.8110

2.7650

.0000

.0000

3.3050

2.8490

1.8610

1.5440

2.0270

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(OUGH11) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 0000 IN. ALPHA = 30 000 BETA = 000
 LREF = 1290.3000 IN YMRP = 0000 IN.
 BRFP = 1290 3000 IN ZMRP = 0000 IN.
 SCALE = 1000

MACH (1) = 7 011 ALPHA (1) = 30.080 RE/FT = 13080 PD = 370 80 TO = 5426 0 HO = 40 760

SECTION (1) WING L.S.

DEPENDENT VARIABLE QDOT

X/C 0000 0380 .0420 .0670 .1010 1460 1610 1900 2020 2110 3040 3130 3160 4400 4510

2Y/B

247 23 0800
 248 26 4700 19 8600
 396 29 5400
 399 21.9300
 412 57 7800
 498 49 4800
 499 121 2000
 599 48 1400 35 1400
 738 88.6700
 750 30 9000
 849 74.9500
 948 57 0600
 1 000 6.9850

X/C .4970 .5160 5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

248 11 3300
 249 18.5800
 399 9.9450
 .400 20.6900
 .500 31.0700 27.1300
 .599 14.4400
 601 26 7200
 749 21.6400
 848 29.8900
 950 39 3500

OH12/IH21 (CAL HST 173-100) 37 0 WING L S. (OUGH11)

MACH (2) = 7.890 ALPHA (1) = 30.080 RE/FT = 75740 PO = 782.80 TO = 3018 0 HO = 19 990

SECTION (1) WING L.S DEPENDENT VARIABLE QDOT

| X/C | 0000 | .0380 | .0420 | .0670 | 1010 | 1460 | 1610 | .1900 | .2020 | .2110 | 3040 | .3130 | 3160 | .4400 | .4510 |
|-------|----------|-------|---------|---------|---------|---------|---------|---------|---------|-------|---------|---------|------|---------|---------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | 17 7000 | | | | |
| .248 | | | | | | 19 2700 | | | | | | | | | 13.4500 |
| .396 | | | | | | | | | 27.9400 | | | | | | |
| .399 | | | | | | | | | | | | 17.5200 | | | |
| .412 | | | | 34.1600 | | | | | | | | | | | |
| .498 | | | | | | | 34.8000 | | | | | | | | |
| .499 | 119.2000 | | | | | | | | | | | | | | |
| .599 | | | | | | | | 34.2800 | | | | | | 20.8000 | |
| .738 | | | 72.5100 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | 17 7300 | | | |
| .849 | | | | | 47 1000 | | | | | | | | | | |
| .948 | | | | | | 30 5700 | | | | | | | | | |
| 1.000 | 2 3140 | | | | | | | | | | | | | | |

X/C .4970 .5160 .5360 .5680 5950 6120 .7110 .7160 .8840 9060 .9120

2Y/B

| | | | | | | | | | | | | | | | |
|------|---------|--|---------|---------|---------|---------|---------|---------|--------|--|--------|--|--|--|--|
| .248 | | | | | | | | | 9.1950 | | | | | | |
| .249 | | | | | 13.0200 | | | | | | | | | | |
| .399 | | | | | | | | | 7.8640 | | | | | | |
| .400 | | | | 12.7000 | | | | | | | | | | | |
| .500 | 17.6000 | | | | | | 18.2000 | | | | | | | | |
| .599 | | | | | | | | | | | 9 6680 | | | | |
| .601 | | | | | | 19.4800 | | | | | | | | | |
| .749 | | | | | | | | 13 9600 | | | | | | | |
| .848 | 21.5100 | | | | | | | | | | | | | | |
| .950 | | | 27.6900 | | | | | | | | | | | | |

MACH (3) = 7 922 ALPHA (1) = 30.000 RE/FT = 7.5500 PO = 2310.0 TO = 1591.0 HO = 10.090

SECTION (1) WING L.S DEPENDENT VARIABLE QDOT

| X/C | 0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | 3040 | .3130 | .3160 | .4400 | .4510 |
|------|----------|-------|---------|---------|-------|---------|-------|---------|---------|-------|---------|---------|-------|---------|---------|
| 2Y/B | | | | | | | | | | | | | | | |
| .247 | | | | | | | | | | | 35.7300 | | | | |
| .248 | | | | | | 38.6200 | | | | | | | | | 40 3100 |
| .396 | | | | | | | | | 73.5200 | | | | | | |
| .399 | | | | | | | | | | | | 48.2300 | | | |
| .412 | | | | 66.9100 | | | | | | | | | | | |
| .498 | | | | | | | | .0000 | | | | | | | |
| .499 | 116.2000 | | | | | | | | | | | | | | |
| .599 | | | | | | | | 71.3700 | | | | | | 60.0000 | |
| .738 | | | 87.7400 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | 47 3300 | | | |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (QUGH11)

MACH (3) = 7.922 ALPHA (1) = 30 000

| SECTION (1) WING L.S | | DEPENDENT VARIABLE QDOT | | | | | | | | | | | | | | |
|------------------------|-------|-------------------------|---------|-------|---------|-------|---------|---------|---------|---------|---------|---------|------|------|-------|------|
| X/C | | 0000 | 0380 | 0420 | 0670 | .1010 | 1460 | 1610 | .1900 | 2020 | .2110 | .3040 | 3130 | 3160 | .4400 | 4510 |
| 2Y/B | | | | | | | | | | | | | | | | |
| | 849 | | | | | 0000 | | | | | | | | | | |
| | 948 | | | | | | 48 6200 | | | | | | | | | |
| | 1 000 | 2.2740 | | | | | | | | | | | | | | |
| X/C | | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | | |
| | 248 | | | | | | | | | 33 9600 | | | | | | |
| | 249 | | | | 47 5100 | | | | | | | | | | | |
| | 399 | | | | | | | | | | 24.6300 | | | | | |
| | 400 | | | | 44 7700 | | | | | | | | | | | |
| | 500 | 60 4300 | | | | | | 45 2800 | | | | | | | | |
| | 599 | | | | | | | | | | | 29 7100 | | | | |
| | 601 | | | | | | 0000 | | | | | | | | | |
| | 749 | | | | | | | | 35.5700 | | | | | | | |
| | 848 | 58.9500 | | | | | | | | | | | | | | |
| | 950 | | 48 4500 | | | | | | | | | | | | | |

MACH (4) = 10 520 ALPHA (1) = 30 100 RE/FT = 1.0520 PO = 2686 0 TO = 3202 0 HO = 21 350

| SECTION (1) WING L.S | | DEPENDENT VARIABLE QDOT | | | | | | | | | | | | | | |
|------------------------|-------|-------------------------|-------|---------|---------|-------|---------|---------|-------|---------|--------|---------|---------|------|---------|---------|
| X/C | | 0000 | 0380 | 0420 | 0670 | 1010 | 1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | 3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | | |
| | 247 | | | | | | | | | | | 15 1900 | | | | |
| | 248 | | | | | | | 20.2400 | | | | | | | | 13.4500 |
| | 396 | | | | | | | | | | .0000 | | | | | |
| | 399 | | | | | | | | | | | | 16.0200 | | | |
| | .412 | | | | 39 5600 | | | | | | | | | | | |
| | 498 | | | | | | | | | 32.3700 | | | | | | |
| | 499 | 95 0500 | | | | | | | | | | | | | | |
| | 599 | | | | | | | | | 29.0000 | | | | | 22.0700 | |
| | 738 | | | 59 8200 | | | | | | | | | | | | |
| | .750 | | | | | | | | | | | | | | 27.5900 | |
| | .849 | | | | | .0000 | | | | | | | | | | |
| | 948 | | | | | | 39.4700 | | | | | | | | | |
| | 1 000 | 3.0470 | | | | | | | | | | | | | | |
| X/C | | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | 9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | | |
| | .248 | | | | | | | | | 8.5210 | | | | | | |
| | 249 | | | | 12.0000 | | | | | | | | | | | |
| | 399 | | | | | | | | | | 6.5600 | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L S.

(ROUGH11)

MACH (4) = 10 520 ALPHA (1) = 30.100

SECTION (1) WING L S.

DEPENDENT VARIABLE QDOT

X/C .4970 5160 5360 5680 5950 6120 7110 .7160 8840 9060 9120

2Y/B

400 13 9600
 - .500 20 4200 22 7800
 - .599 8.8400
 .601 15 8200
 749 22 0900
 848 21 8800
 950 22 8800

MACH (5) = 12 200 ALPHA (1) = 30 100 RE/FT = .25390 PO = 1613 0 TO = 3922.0 HO = 27.090

SECTION (1) WING L S

DEPENDENT VARIABLE QDOT

X/C .0000 0380 0420 .0670 1010 .1460 1610 .1900 2020 .2110 3040 .3130 3160 .4400 .4510

2Y/B

.247 10.8400
 .248 11 4200 8 6340
 396 0000
 399 10.1900
 412 24.1400
 498 18 6400
 .499 40 1700
 599 18.1200 15.2400
 .738 41 1300 14 4300
 750
 848 .0000
 948 21.6800
 1 000 2.3200

X/C .4970 5160 .5360 .5680 .5950 .6120 .7110 7160 .8840 .9060 .9120

2Y/B

.248 5 5580
 .249 8.0320
 .399 4.0560
 .400 8 2780
 .500 13.9900 12 6900
 .599 6.1780
 .601 11.7800
 .749 11.8300
 848 10 9800
 950 13 9400

OH12/1H21 (CAL HST 173-100) 37 0 WING L S. (OUGW11)

MACH (6) = 16.070 ALPHA (1) = 30.100 RE/FT = 45820-01 PO = 560 60 TO = 3667 0 HO = 25.040

SECTION (1) WING L S

DEPENDENT VARIABLE QDOT

| X/C | 0000 | .0380 | .0420 | 0670 | 1010 | 1460 | 1610 | 1900 | .2020 | 2110 | 3040 | 3130 | .3160 | 4400 | 4510 |
|-------|-------|---------|---------|--------|-------|--------|--------|--------|--------|-------|--------|--------|--------|------|--------|
| 2Y/B | | | | | | | | | | | 2 8780 | | | | |
| 247 | | | | | | | | | | | | | | | |
| 248 | | | | | | | 3.1800 | | | | | | | | 2 5250 |
| .396 | | | | | | | | | | .0000 | | | | | |
| 399 | | | | | | | | | | | | 3 0350 | | | |
| 412 | | | | 6 6160 | | | | | | | | | | | |
| 498 | | | | | | | | 5 7790 | | | | | | | |
| 499 | | 14 5300 | | | | | | | | | | | | | |
| 599 | | | | | | | | | 5 2110 | | | | | | 4 4730 |
| 738 | | | 10 8600 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | 3.8880 | | |
| 849 | | | | | .0000 | | | | | | | | | | |
| 948 | | | | | | 7.1220 | | | | | | | | | |
| 1 000 | .8699 | | | | | | | | | | | | | | |

X/C .4970 .5160 5360 5680 5950 .6120 7110 .7160 .8840 9060 9120

2Y/B

| | | | | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--|--------|--------|--------|--------|--|--|--|--|
| 248 | | | | | | | | | 1.5880 | | | | | | |
| 249 | | | | | 2 2630 | | | | | | | | | | |
| .399 | | | | | | | | | | 1 1990 | | | | | |
| 400 | | | | 2.5150 | | | | | | | | | | | |
| 500 | 4 0150 | | | | | | | 2 8490 | | | | | | | |
| 599 | | | | | | | | | | | 2 0380 | | | | |
| 601 | | | | | | 4.3530 | | | | | | | | | |
| .748 | | | | | | | | 3 1770 | | | | | | | |
| 848 | | 3 2850 | | | | | | | | | | | | | |
| 950 | | | 4.1540 | | | | | | | | | | | | |

MACH (7) = 19 150 ALPHA (1) = 30 020 RE/FT = .43340-01 PO = 1643 0 TO = 4746.0 HO = 33 960

SECTION (1) WING L S

DEPENDENT VARIABLE QDOT

| X/C | .0000 | .0380 | 0420 | .0670 | 1010 | .1460 | .1610 | .1900 | 2020 | .2110 | .3040 | 3130 | 3160 | .4400 | .4510 |
|------|-------|---------|---------|--------|------|-------|--------|--------|--------|-------|--------|--------|--------|-------|--------|
| 2Y/B | | | | | | | | | | | 3 8140 | | | | |
| 247 | | | | | | | | | | | | | | | |
| .248 | | | | | | | 4.0310 | | | | | | | | 2.7920 |
| .396 | | | | | | | | | | 0000 | | | | | |
| 399 | | | | | | | | | | | | 3.7650 | | | |
| .412 | | | | 7.7320 | | | | | | | | | | | |
| .498 | | | | | | | | 7.2630 | | | | | | | |
| 499 | | 19.8000 | | | | | | | | | | | | | |
| .599 | | | | | | | | | 6.7240 | | | | | | 5.7350 |
| .738 | | | 13.8800 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | | 5.1830 | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L S

(OUGH12) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN
 LREF = 1290.3000 IN. YMRP = .0000 IN
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 35.000 BETA = .000

MACH (1) = 6.993 ALPHA (1) = 35.050 RE/FT = 12520 P0 = 363.90 T0 = 5492.0 H0 = 41.400

SECTION (1) WING L S.

DEPENDENT VARIABLE QDOT

| | | | | | | | | | | | | | | | |
|-----|------|------|-------|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | 0000 | 0380 | .0420 | .0670 | 1010 | 1460 | 1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-----|------|------|-------|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

| | | | | | | | | | | | | | | | |
|-------|--------|----------|-------|---------|----------|---------|---------|--|---------|-------|---------|------|---------|--|---------|
| 247 | | | | | | | | | | | 44.8300 | | | | |
| 248 | | | | | | 49.9000 | | | | | | | | | 0000 |
| .396 | | | | | | | | | | .0000 | | | | | |
| 399 | | | | | | | | | | | | 0000 | | | |
| 412 | | | | 73.8500 | | | | | | | | | | | |
| 498 | | | | | | | 79.2900 | | | | | | | | |
| .499 | | 143.8000 | | | | | | | | | | | | | |
| 599 | | | | | | | | | 70.7000 | | | | | | 50.3400 |
| 738 | | | .0000 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | 50.0600 | | |
| 849 | | | | | 237.1000 | | | | | | | | | | |
| 948 | | | | | | 67.0900 | | | | | | | | | |
| 1 000 | 3 3660 | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-----|------|------|------|-------|------|------|-------|-------|------|-------|-------|
| X/C | 4970 | 5160 | 5360 | .5680 | 5950 | 6120 | .7110 | .7160 | 8840 | .9060 | .9120 |
|-----|------|------|------|-------|------|------|-------|-------|------|-------|-------|

2Y/B

| | | | | | | | | | | | |
|------|------|---------|---------|---------|---------|---------|--|------|---------|---------|--|
| 248 | | | | | | | | | 25.7700 | | |
| .249 | | | | | 36.6600 | | | | | | |
| .399 | | | | | | | | | | 15.8300 | |
| .400 | | | | 29.5300 | | | | | | | |
| 500 | 0000 | | | | | 31.5700 | | | | | |
| 599 | | | | | | | | | | 22.7900 | |
| 601 | | | | | | 45.0200 | | | | | |
| 749 | | | | | | | | 0000 | | | |
| 848 | | 43.5600 | | | | | | | | | |
| 950 | | | 70.6600 | | | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L S. (OUGH12)

MACH (2) = 7.922 ALPHA (1) = 35.050 RE/FT = 7.5700 PO = 2199.0 TO = 1538.0 HO = 9.7660

SECTION (1) WING L.S DEPENDENT VARIABLE QDOT

X/C 0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 2020 .2110 3040 3130 3160 4400 .4510

2Y/B

247 35.1200
 248 38.2000 39.3500
 396 59.4500
 399 55.0000
 412 59.6400
 498 .0000
 499 108.0000
 599 74.4300 64.3000
 738 91.6900
 750 55.6700
 849 0000
 948 46.9200
 1.000 1.6980

X/C 4970 .5160 .5360 5630 5950 6120 7110 7160 8840 9060 9120

2Y/B

248 35.6600
 249 46.9000
 399 26.3600
 400 33.6600
 500 61.5900 49.5800
 599 27.0100
 601 53.9400
 749 46.4600
 848 59.3000
 950 60.0400

MACH (3) = 8.058 ALPHA (1) = 35.050 RE/FT = 1.1090 PO = 894.80 TO = 2594.0 HO = 16.850

SECTION (1) WING L.S DEPENDENT VARIABLE QDOT

X/C 0000 .0380 .0420 .0670 .1010 .1460 .1610 1900 .2020 2110 3040 .3130 .3160 .4400 .4510

2Y/B

247 14.6300
 248 14.9800 11.4300
 396 36.6600
 399 16.9400
 412 33.4400
 498 .0000
 499 63.4200
 599 30.0400 24.7200
 738 56.5000
 750 21.2900

OH12/IH21 (CAL HST 173-100) 37 0 HING L.S. (OUGH12)

MACH (3) = 8.058 ALPHA (1) = 35 050

| SECTION (1) HING L.S. | | DEPENDENT VARIABLE QOOT | | | | | | | | | | | | | | |
|-------------------------|-------|-------------------------|---------|-------|---------|---------|---------|---------|---------|--------|--------|--------|-------|-------|-------|-------|
| X/C | | 0000 | 0380 | 0420 | 0670 | 1010 | .1460 | 1610 | 1900 | .2020 | .2110 | 3040 | .3130 | .3160 | .4400 | .4510 |
| 2Y/B | | | | | | | | | | | | | | | | |
| | 848 | | | | | 83.7400 | | | | | | | | | | |
| | 948 | | | | | | 33 6600 | | | | | | | | | |
| | 1 000 | 1 8270 | | | | | | | | | | | | | | |
| X/C | | .4970 | .6160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | 9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | | |
| | 248 | | | | | | | | | 8.7570 | | | | | | |
| | 249 | | | | | 17 2200 | | | | | | | | | | |
| | .399 | | | | | | | | | | 5.2360 | | | | | |
| | .400 | | | | 11.7000 | | | | | | | | | | | |
| | 500 | 19 6800 | | | | | | 16.4600 | | | | | | | | |
| | .599 | | | | | | | | | | | 6 1350 | | | | |
| | .601 | | | | | | 19 2100 | | | | | | | | | |
| | .749 | | | | | | | | 23.5700 | | | | | | | |
| | .848 | 18 3400 | | | | | | | | | | | | | | |
| | 950 | | 29 9100 | | | | | | | | | | | | | |

MACH (4) = 10.730 ALPHA (1) = 30 100 RE/FT = 1.9260 PO = 3618.0 TO = 2727 0 HO = 17.750

| SECTION (1) HING L.S. | | DEPENDENT VARIABLE QOOT | | | | | | | | | | | | | | |
|-------------------------|-------|-------------------------|-------|---------|---------|-------|---------|-------|---------|---------|-------|---------|---------|---------|---------|---------|
| X/C | | 0000 | .0380 | 0420 | .0670 | 1010 | .1460 | .1610 | 1900 | .2020 | .2110 | .3040 | .3130 | 3160 | 4400 | 4510 |
| 2Y/B | | | | | | | | | | | | | | | | |
| | 247 | | | | | | | | | | | 13 4200 | | | | |
| | 248 | | | | | | 16.1700 | | | | | | | | | 10.8100 |
| | 396 | | | | | | | | | | .0000 | | | | | |
| | .399 | | | | | | | | | | | | 15 7500 | | | |
| | 412 | | | | 35.1300 | | | | | | | | | | | |
| | 498 | | | | | | | | 27 6900 | | | | | | | |
| | 499 | 79 8600 | | | | | | | | | | | | | | |
| | 599 | | | | | | | | | 22 4800 | | | | | 20.2100 | |
| | 738 | | | 52 9200 | | | | | | | | | | | | |
| | 750 | | | | | | | | | | | | | 24 9300 | | |
| | .849 | | | | | .0000 | | | | | | | | | | |
| | 948 | | | | | | 36.6700 | | | | | | | | | |
| | 1 000 | 3.0430 | | | | | | | | | | | | | | |
| X/C | | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | | |
| | 248 | | | | | | | | 7.1010 | | | | | | | |
| | 249 | | | | 10.7000 | | | | | | | | | | | |
| | 399 | | | | | | | | | 5.7910 | | | | | | |

OH12/1H21 (CAL HST 173-100) 37 0 WING L.S. (OUGH12)
 MACH (6) = 15.960 ALPHA (1) = 35.170 RE/FT = .43170-01 P0 = 536.10 T0 = 3720.0 H0 = 25.490

SECTION (1) WING L.S. DEPENDENT VARIABLE QDOT
 X/C .0000 .0380 .0420 .0670 .1010 .1460 .1610 1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510
 2Y/B
 .247
 .248
 .396
 399
 412
 .498
 .499 14 2700
 .599
 738 11.4200
 750
 849 .0000
 948 7.3180
 1 000 .6348
 3.3700
 3.9260
 .0000
 3.5070
 6 2420
 6 0450
 6.1340
 4 6770
 .0000

X/C 4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120
 2Y/B
 248
 249
 399
 .400
 500 3.9390
 .599
 .601
 .749
 .848 3.8280
 950 4.1530
 1.9620
 3.1240
 1.6690
 3.3330
 2.1470
 4.4670
 .0000

MACH (7) = 19.160 ALPHA (1) = 35.030 RE/FT = .44730-01 P0 = 1704 0 T0 = 4753.0 H0 = 34.030

SECTION (1) WING L.S. DEPENDENT VARIABLE QDOT
 X/C 0000 .0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510
 2Y/B
 247
 248
 396
 399
 .412
 498
 499 19.6400
 599
 738 16.1500
 750
 4.4150
 5.3610
 .0000
 4.9370
 9.3330
 8.0670
 9.0380
 6 8410
 3 9000
 6.5390

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 425

OH12/IH21 (CAL HST 173-100) 37 0 WING L S

(OUGH12)

MACH (7) = 19 160 ALPHA (1) = 35.030

SECTION (1) WING L.S.

DEPENDENT VARIABLE QDOT

| X/C | 0000 | 0380 | .0420 | .0670 | .1010 | .1460 | .1610 | 1900 | .2020 | 2110 | 3040 | 3130 | 3160 | .4400 | .4510 |
|-------|-------|--------|--------|--------|--------|---------|-------|--------|--------|--------|--------|------|------|-------|-------|
| 2Y/B | | | | | | | | | | | | | | | |
| 849 | | | | | .0000 | | | | | | | | | | |
| 948 | | | | | | 10.0700 | | | | | | | | | |
| 1.000 | .6702 | | | | | | | | | | | | | | |
| X/C | .4970 | 5160 | 5360 | 5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 | | | | |
| 2Y/B | | | | | | | | | | | | | | | |
| 248 | | | | | | | | | 2.8710 | | | | | | |
| 249 | | | | | 4.4300 | | | | | | | | | | |
| 399 | | | | | | | | | | 2.2000 | | | | | |
| 400 | | | | 3.8770 | | | | | | | | | | | |
| 500 | 0000 | | | | | | .0000 | | | | | | | | |
| 599 | | | | | | | | | | | 2.4760 | | | | |
| 601 | | | | | | 5.7700 | | | | | | | | | |
| 749 | | | | | | | | 5.3800 | | | | | | | |
| 848 | | 4.7960 | | | | | | | | | | | | | |
| 950 | | | 5.6540 | | | | | | | | | | | | |

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/1H21 (CAL HST 173-100) 37 0 WING L S.

(OUGW13) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290 3000 IN. YMRP = .0000 IN.
 BREF = 1290 3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 40.000 BETA = .000

MACH (1) = 7.921 ALPHA (1) = 40.000 RE/FT = 7.4790 PO = 2300.0 TO = 1596.0 HO = 10.120

.SECTION (1) WING L S

DEPENDENT VARIABLE QDOT

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .0000 | .0380 | .0420 | .0570 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | .3160 | .4400 | .4510 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

| | | | | | | | | | | | | | | | |
|-------|--------|---------|----------|---------|------|---------|--|---------|---------|--|---------|---------|--|---------|---------|
| .247 | | | | | | | | | | | 48 4300 | | | | |
| .248 | | | | | | 46 2800 | | | | | | | | | 50 6500 |
| .396 | | | | | | | | | 78.2600 | | | | | | |
| .399 | | | | | | | | | | | 62.2600 | | | | |
| .412 | | | | 60.1800 | | | | | | | | | | | |
| .498 | | | | | | | | .0000 | | | | | | | |
| .499 | | 91.4700 | | | | | | | | | | | | | |
| .599 | | | | | | | | 79 9300 | | | | | | 71.5600 | |
| .738 | | | 104.2000 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | | 54.2200 | | | |
| .849 | | | | | 0000 | | | | | | | | | | |
| .948 | | | | | | 65.5300 | | | | | | | | | |
| 1 000 | 1 2540 | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | 7160 | .6840 | .9060 | .9120 |
|-----|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|

2Y/B

| | | | | | | | | | | | |
|------|---------|---------|---------|---------|---------|---------|---------|--|---------|--|--|
| .248 | | | | | | | | | 43 7500 | | |
| .249 | | | | | 55.4800 | | | | | | |
| .399 | | | | | | | | | 36.8200 | | |
| .400 | | | | 50.1300 | | | | | | | |
| .500 | 61.3500 | | | | | 56.7500 | | | | | |
| .599 | | | | | | | | | 34.0900 | | |
| .601 | | | | | | .0000 | | | | | |
| .749 | | | | | | | 45.8200 | | | | |
| .848 | | 70 6400 | | | | | | | | | |
| .950 | | | 63.8200 | | | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S (ROUGH13)
 MACH (2) = 8 024 ALPHA (1) = 40 000 RE/FT = 1 0600 PO = 921 50 TO = 2712 0 HO = 17.700

SECTION (WING L S DEPENDENT VARIABLE QOOT

X/C .0000 .0380 .0420 .0670 .1010 .1460 1610 .1900 .2020 2110 3040 .3130 .3160 .4400 .4510

2Y/B

247 30 6400 22.3000
 .248 27.1800
 .396 67.3700
 .399 40.0600
 412 50.1100
 498 0000
 499 91.1900
 .599 54.7500 37.6900
 .738 84.2900
 .750 30.1100
 849 .0000
 948 50.9100
 1 000 1.3000

X/C .4970 .5160 .5360 .5680 5950 6120 .7110 .7160 .8840 .9060 .9120

2Y/B

248 16 4300
 249 27.9800
 399 10.5800
 .400 23.8100
 500 29.2300 34.8600
 599 14.3200
 601 .0000
 749 38.3300
 848 25.2100
 950 56 3200

OH12/IH21 (CAL HST 173-100) 37 0 7 WING L S

(OUGH14) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290 3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = .000 BETA = .000

MACH (1) = 16 050 ALPHA (1) = 083 RE/FT = .46340-01 PO = 577.10 TO = 3699.0 HO = 25.320

SECTION (1) WING L S.

DEPENDENT VARIABLE QDOT

| | | | | | | | | | | | | | | | |
|-----|-------|------|------|-------|------|-------|-------|-------|------|-------|------|------|-------|-------|------|
| X/C | .0000 | 0380 | 0420 | .0670 | 1010 | .1460 | .1610 | .1900 | 2020 | .2110 | 3040 | 3130 | .3160 | .4400 | 4510 |
|-----|-------|------|------|-------|------|-------|-------|-------|------|-------|------|------|-------|-------|------|

2Y/B

| | | | | | | | | | | | | | | | |
|-------|--------|--------|--------|-------|-------|--------|-------|-------|--------|-------|-------|-------|--------|--|-------|
| .247 | | | | | | | | | | | .1093 | | | | |
| .248 | | | | | | | .4047 | | | | | | | | 0537 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | | .4411 | | | |
| .412 | | | | .9203 | | | | | | | | | | | |
| .498 | | | | | | | | .9098 | | | | | | | |
| .499 | | 3.0380 | | | | | | | | | | | | | |
| 599 | | | | | | | | | 1.2160 | | | | | | .8499 |
| 738 | | | 6.0300 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | 1.5810 | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | 3.8620 | | | | | | | | | |
| 1 000 | 2.2470 | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/C | .4970 | .5160 | .5360 | .5680 | .5950 | .6120 | .7110 | .7160 | .8840 | .9060 | .9120 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

2Y/B

| | | | | | | | | | | | |
|------|-------|--------|--------|-------|-------|-------|-------|--|-------|-------|--|
| .248 | | | | | | | | | .0579 | | |
| .249 | | | | | .0418 | | | | | | |
| .399 | | | | | | | | | .1586 | | |
| .400 | | | | .2818 | | | | | | | |
| .500 | .6046 | | | | | | .3988 | | | | |
| .599 | | | | | | | | | | .3627 | |
| .601 | | | | | | .6152 | | | | | |
| .749 | | | | | | | .7875 | | | | |
| .848 | | 1.6230 | | | | | | | | | |
| .950 | | | 1.8590 | | | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S.

(OUGH15) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = .0000 IN.
 LREF = 1290 3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 25.000 BETA = .000

MACH (1) = 12.030 ALPHA (1) = 25.030 RE/FT = .95540 PO = 4211.0 TO = 3477 0 HO = 23 460

SECTION (1) WING L S

DEPENDENT VARIABLE ODOT

X/C 0000 0380 .0420 0670 1010 .1460 .1610 .1900 .2020 .2110 3040 .3130 .3160 4400 4510

2Y/B

.247 15 0100
 .248 17.7200 12 2400
 .396 .0000
 .399 14.5400
 412 40.9900
 498 35 4900
 499 98.1100
 599 19.8400 20.0800
 738 59.7000
 750 18.1200
 849 .0000
 948 33.8400
 1 000 4 3320

X/C 4970 .5160 .5360 .5680 .5950 .6120 7110 .7160 .8840 .9060 .9120

2Y/B

.248 .0000
 .249 15.4900
 .399 6.6520
 400 12 8000
 .500 26.3700 20.9700
 .599 8.1860
 601 17.4200
 749 14.5900
 848 15.0500
 950 21.1100

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L S.

(OUGH16) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN
 LREF = 1290.3000 IN YMRP = .0000 IN
 BREF = 1290.3000 IN. ZMRP = .0000 IN
 SCALE = 1000

ALPHA = 30.000 BETA = .000

MACH (1) = 12.030 ALPHA (1) = 30.100 RE/FT = .96300 P0 = 4246.0 T0 = 3477.0 H0 = 23.460

SECTION (1) WING L S.

DEPENDENT VARIABLE QOOT

X/C 0000 0380 .0420 .0670 .1010 1460 1610 1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

247 13.1500
 248 15.4800 12.2900
 396 .0000
 399 12.3600
 412 35.2100
 .498 28.3900
 .499 81.1400
 599 20.4800 18.3700
 738 51.9900
 750 22.4000
 849 .0000
 948 32.3700
 1 000 3.1840

X/C .4970 .5180 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

248 10.0200
 .249 0000
 399 5.5120
 400 12.9800
 .500 23.4200 19.4000
 .599 7.6170
 601 16.3200
 749 19.7700
 848 16.2600
 950 21.5100

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (OUGH16)

MACH (2) = 15 720 ALPHA (1) = 30.100 RE/FT = 24490 PO = 2491.0 TO = 3535 0 HO = 23.970

SECTION (1) WING L.S. DEPENDENT VARIABLE QDOT

X/C .0000 .0380 0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

247 6.6900
 .248 7.4970 4.9270
 396 .0000
 .399 7.2020
 412 12.8100
 498 12.0500
 .499 33.5100
 .599 13.2600 9.1640
 738 25.2000
 .750 9.4090
 .849 .0000
 948 14.5500
 1 000 1.9690

X/C 4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120

2Y/B

.248 3.6680
 249 5.1110
 399 2.2950
 400 6.2460
 500 9.2590 7.8900
 .599 5.1210
 601 7.0040
 749 7.3830
 .848 6.1090
 .950 9.2430

OH12/IH21 (CAL HST 173-100) 37 0 WING L S

(OUGH17) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = .0000 IN.
 LREF = 1290.3000 IN YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN
 SCALE = .1000

ALPHA = 35 000 BETA = 000

MACH (1) = 12 060 ALPHA (1) = 35 170 RE/FT = 98280 P0 = 4058 0 T0 = 3362 0 H0 = 22.590

SECTION (1) WING L S

DEPENDENT VARIABLE QDOT

| | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| X/C | .0000 | .0380 | .0420 | .0670 | .1010 | .1460 | .1610 | .1900 | .2020 | .2110 | .3040 | .3130 | 3160 | 4400 | 4510 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|

2Y/B

| | | | | | | | | | | | | | | | |
|-------|--------|---------|---------|---------|-------|---------|---------|---------|--|-------|---------|--|--|---------|---------|
| .247 | | | | | | | | | | | 19.0900 | | | | |
| .248 | | | | | | 21.4400 | | | | | | | | | 16 8800 |
| .396 | | | | | | | | | | .0000 | | | | | |
| .399 | | | | | | | | | | | 21.4700 | | | | |
| .412 | | | | 41.6400 | | | | | | | | | | | |
| .499 | | | | | | | 33 1600 | | | | | | | | |
| .499 | | 82.7400 | | | | | | | | | | | | | |
| .599 | | | | | | | | 34 9000 | | | | | | 23 7900 | |
| .738 | | | 62 8300 | | | | | | | | | | | | |
| .750 | | | | | | | | | | | 25.0800 | | | | |
| .849 | | | | | .0000 | | | | | | | | | | |
| .948 | | | | | | 39 9000 | | | | | | | | | |
| 1 000 | 2.1140 | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-----|------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|
| X/C | 4970 | .5160 | .5360 | .5680 | 5950 | .6120 | 7110 | .7160 | .8840 | .9060 | .9120 |
|-----|------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|

2Y/B

| | | | | | | | | | | | |
|------|---------|---------|---------|---------|---------|---------|---------|--|---------|--|--|
| .248 | | | | | | | | | 11.8300 | | |
| .249 | | | | | 16.0700 | | | | | | |
| .399 | | | | | | | | | 8.4630 | | |
| .400 | | | | 14.9500 | | | | | | | |
| .500 | 24 0400 | | | | | 21 8700 | | | | | |
| .599 | | | | | | | | | 11.3500 | | |
| .601 | | | | | 20.6500 | | | | | | |
| .749 | | | | | | | 20.1000 | | | | |
| .848 | | 22.2900 | | | | | | | | | |
| .950 | | | 24.4700 | | | | | | | | |

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 435

OH12/IH21 (CAL HST 173-100) 37 0 T-NP VERTICAL

(QUGV04) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = 0000 IN.
 SCALE = 1000

ALPHA = .000 BETA = .000

MACH (1) = 18.360 ALPHA (1) = .023 RE/FT = .12410-01 PO = 360.50 TO = 4449.0 HO = 31.530

SECTION (1) VERTICAL

DEPENDENT VARIABLE QDOT

Z/BY .7470 .8540 .9540 1.0000

GAGENO

39 000 2 1080
 40 000 0000
 41 000 7.2240
 42.000 .3756

OH12/IH21 (CAL HST 173-100) 37 0 T VERTICAL

(000V05) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YHRP = .0000 IN.
 BREF = 1290 3000 IN. ZHRP = .0000 IN.
 SCALE = .1000

ALPHA = .000 BETA = .000

MACH (1) = 6.999 ALPHA (1) = .050 RE/FT = .12050 P0 = 357.80 T0 = 5538.0 H0 = 41.770

SECTION (1) VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 163.3000

40.000 133.4000

41.000 209.2000

42.000 11.4900

MACH (2) = 7.616 ALPHA (1) = .050 RE/FT = 1.2040 P0 = 519.30 T0 = 2007.0 H0 = 12.750

SECTION (1) VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 62.1800

40.000 46.5200

41.000 87.0100

42.000 2.4980

MACH (3) = 18.330 ALPHA (1) = .083 RE/FT = .12100-01 P0 = 346.80 T0 = 4436.0 H0 = 31.410

SECTION (1) VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 1.9020

40.000 .0000

41.000 6.3140

42.000 .3837

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 437

OH12/IH21 (CAL HST 173-100) 37 0 T VERTICAL

(QUGV05)

MACH (4) = 19 200 ALPHA (1) = .083 RE/FT = .43200-01 P0 = 1602.0 T0 = 4694.0 H0 = 33 500

SECTION (1) VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39 000 8.2960

40 000 .0000

41 000 18.7900

42.000 1 0360

OH12/IH21 (CAL HST 173-100) 37 0 T VERTICAL

(QUGV06) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 0000 IN
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN
 SCALE = .1000

ALPHA = 5.000 BETA = 000

MACH (1) = 19.220 ALPHA (1) = -5.083 RE/FT = .43430-01 P0 = 1614 0 T0 = 4695.0 H0 = 33.500

SECTION (1) VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 16.1200

40.000 .0000

41.000 54.8700

42.000 1.9930

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(OUGV07) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = 0000 IN.
 SCALE = 1000

ALPHA = 000 BETA = 000

MACH (1) = 6.997 ALPHA (1) = .050 RE/FT = .13020 P0 = 384.80 TO = 5526.0 HO = 41.700

SECTION (1) VERTICAL DEPENDENT VARIABLE QDOT

Z/BV 7470 .6540 .9640 1.0000

GAGENO
 39 000 104.1000
 40 000 152.5000
 41 000 225.8000
 42 000 11.5700

MACH (2) = 7.614 ALPHA (1) = .050 RE/FT = 1.2320 P0 = 534.30 TO = 2015.0 HO = 12.800

SECTION (1) VERTICAL DEPENDENT VARIABLE QDOT

Z/BV .7470 .6540 .9640 1.0000

GAGENO
 39 000 68.1600
 40.000 56.4500
 41 000 80.8400
 42 000 3.5430

MACH (3) = 16.060 ALPHA (1) = .083 RE/FT = .44180-01 P0 = 560.00 TO = 3731.0 HO = 25.530

SECTION (1) VERTICAL DEPENDENT VARIABLE QDOT

Z/BV 7470 .6540 .9640 1.0000

GAGENO
 39 000 10.8100
 40 000 .0000
 41 000 26.5100
 42 000 1.4690

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL (OUGV07)

MACH (4) = 18.310 ALPHA (1) = .067 RE/FT = .12290-01 P0 = 348 20 T0 = 4417.0 H0 = 31.290

SECTION (1)VERTICAL DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 1.8090

40 000 4 9260

41 000 9.9140

42.000 .3236

MACH (5) = 19 190 ALPHA (1) = .067 RE/FT = .44400-01 P0 = 1603.0 T0 = 4644 0 H0 = 33.120

SECTION (1)VERTICAL DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 8.1850

40 000 13 5900

41 000 25.5400

42.000 1.2660

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 441

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(QUGV08) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT XMRP = .0000 IN
 LREF = 1290 3000 IN. YMRP = 0000 IN.
 BREF = 1290.3000 IN ZMRP = 0000 IN.
 SCALE = .1000

ALPHA = 5.000 BETA = 000

MACH (1) = 19.180 ALPHA (1) = -5.050 RE/FT = 45790-01 P0 = 1649 0 T0 = 4641.0 H0 = 33 120

SECTION (1)VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 8540 .9640 1 0000

GAGENO

39 000 13.5100

40 000 30 9500

41.000 28.6800

42 000 1.6880

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + 1H21 (CAL HST 173-100)

PAGE 442

OH12/1H21 (CAL HST 173-100) 37 0 VERTICAL

(QUGV09) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290 3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 10.000 BETA = 000

MACH (1) = 18 360 ALPHA (1) = 10.120 RE/FT = .12480-01 P0 = 347.10 T0 = 4373.0 H0 = 30.890

SECTION (1) VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV 7470 8540 .9640 1.0000

GAGENO

39.000 .2612

40.000 1.9270

41.000 2.2550

42.000 .0745

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(GUGV10) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290 3000 IN ZMRP = 0000 IN
 SCALE = 1000

ALPHA = 25.000 BETA = .000

MACH (1) = 6.973 ALPHA (1) = 25.070 RE/FT = .12370 P0 = 373.20 T0 = 5587 0 H0 = 42.320

SECTION (1)VERTICAL DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 9640 1.0000

GAGENO
 39.000 25.3600
 40.000 31.9500
 41.000 40.1600
 42.000 3.8620

MACH (2) = 7.921 ALPHA (1) = 24.920 RE/FT = 7.3310 P0 = 2181.0 T0 = 1560 0 H0 = 9.9040

SECTION (1)VERTICAL DEPENDENT VARIABLE QDOT

Z/BV 7470 8540 9640 1.0000

GAGENO
 39.000 23.1700
 40.000 19.8000
 41.000 29.9100
 42.000 2.1610

MACH (3) = 8.009 ALPHA (1) = 25.070 RE/FT = .99780 P0 = 900.90 T0 = 2772.0 H0 = 18.130

SECTION (1)VERTICAL DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO
 39.000 12.4300
 40.000 24.6900
 41.000 44.3600
 42.000 2.0220

ORIGINAL PAGE(S)
OF POOR QUALITY

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 444

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(QUGV10)

MACH (4) = 10.450 ALPHA (1) = 25.030 RE/FT = .91170 P0 = 2714.0 T0 = 3466.0 H0 = 23.370

SECTION (1)VERTICAL DEPENDENT VARIABLE QDOT

Z/BV 7470 8540 .9640 1.0000

GAGENO

39 000 22.9000

40 000 25.2500

41 000 26.8900

42 000 2.4750

MACH (5) = 12.220 ALPHA (1) = 25.030 RE/FT = .26170 P0 = 1591.0 T0 = 3838.0 H0 = 26.430

SECTION (1)VERTICAL DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39 000 5.8380

40 000 6.6220

41 000 9.6040

42 000 1.0050

MACH (6) = 16.020 ALPHA (1) = 25.030 RE/FT = .44700-01 P0 = 565.60 T0 = 3735.0 H0 = 25.590

SECTION (1)VERTICAL DEPENDENT VARIABLE QDOT

Z/BV 7470 8540 .9640 1.0000

GAGENO

39.000 .4391

40 000 .8791

41 000 1.1130

42 000 .0842

MACH (7) = 19.180 ALPHA (1) = 25.000 RE/FT = .44510-01 P0 = 1618.0 T0 = 4658.0 H0 = 33.250

SECTION (1)VERTICAL DEPENDENT VARIABLE QDOT

Z/BV 7470 8540 .9640 1.0000

GAGENO

39 000 2745

40 000 1995

41 000 .4752

42.000 .0280

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(GUGV11) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT. XMRP = 0000 IN
 LREF = 1290.3000 IN. YMRP = .0000 IN
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 30.000 BETA = .000

MACH (1) = 7.011 ALPHA (1) = 30.080 RE/FT = .13060 P0 = 370.60 T0 = 5426.0 H0 = 40.760

SECTION (1) VERTICAL DEPENDENT VARIABLE QDOT

Z/BV 7470 .8540 .9640 1.0000

GAGENO
 39 000 0000
 40 000 19.6400
 41 000 21.4800
 42 000 2.6990

MACH (2) = 7.890 ALPHA (1) = 30.080 RE/FT = .75740 P0 = 782.60 T0 = 3018.0 H0 = 19.990

SECTION (1) VERTICAL DEPENDENT VARIABLE QDOT

Z/BV 7470 .8540 .9640 1.0000

GAGENO
 39 000 8.4000
 40 000 7.9930
 41 000 7.9800
 42 000 .7217

MACH (3) = 7.922 ALPHA (1) = 30.000 RE/FT = 7.5500 P0 = 2310.0 T0 = 1591.0 H0 = 10.090

SECTION (1) VERTICAL DEPENDENT VARIABLE QDOT

Z/BV 7470 .8540 .9640 1.0000

GAGENO
 39 000 8.3220
 40 000 14.9600
 41 000 23.7900
 42.000 2.4590

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(OUGV11)

MACH (4) = 10.520 ALPHA (1) = 30.100 RE/FT = 1.0520 P0 = 2686.0 T0 = 3202.0 H0 = 21.360

SECTION (1)VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .0000

40.000 7.4050

41.000 10.5500

42.000 .9805

MACH (5) = 12.200 ALPHA (1) = 30.100 RE/FT = 1.25390 P0 = 1613.0 T0 = 3922.0 H0 = 27.090

SECTION (1)VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 3.9760

40.000 4.8730

41.000 5.5300

42.000 .8180

MACH (6) = 16.070 ALPHA (1) = 30.100 RE/FT = 4.5920-01 P0 = 560.60 T0 = 3667.0 H0 = 25.040

SECTION (1)VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .3730

40.000 .5606

41.000 6.067

42.000 .0392

MACH (7) = 19.150 ALPHA (1) = 30.020 RE/FT = .43340-01 P0 = 1643.0 T0 = 4746.0 H0 = 33.960

SECTION (1)VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .3707

40.000 .5269

41.000 7.029

42.000 .0562

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(QUGV12) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN YMRP = .0000 IN.
 BREF = 1290 3000 IN ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 35.000 BETA = .000

MACH (1) = 6.993 ALPHA (1) = 35.050 RE/FT = .12520 P0 = 363.90 T0 = 5492.0 H0 = 41.400

SECTION (1)VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 8540 .9640 1.0000

GAGENO

39.000 14.2500

40.000 16.3300

41.000 16.2200

42.000 2.1660

MACH (2) = 7.922 ALPHA (1) = 35.050 RE/FT = 7.5700 P0 = 2199.0 T0 = 1538.0 H0 = 9.7660

SECTION (1)VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 8540 .9640 1.0000

GAGENO

39.000 8.7740

40.000 12.6200

41.000 14.4400

42.000 2.3030

MACH (3) = 8.058 ALPHA (1) = 35.050 RE/FT = 1.1090 P0 = 894.80 T0 = 2594.0 H0 = 16.850

SECTION (1)VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 8540 .9640 1.0000

GAGENO

39.000 10.2800

40.000 10.8700

41.000 9.0490

42.000 .5993

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL (OUGV12)

MACH (4) = 10.730 ALPHA (1) = 30.100 RE/FT = 1.9260 P0 = 3618.0 T0 = 2727.0 H0 = 17.750

SECTION (1)VERTICAL DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 11.8900

40.000 7.5220

41.000 7.5830

42.000 .9765

MACH (5) = 12.230 ALPHA (1) = 35.170 RE/FT = .26590 P0 = 1621.0 T0 = 3839.0 H0 = 26.440

SECTION (1)VERTICAL DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 3.2960

40.000 4.3700

41.000 4.5360

42.000 .6716

MACH (6) = 15.960 ALPHA (1) = 35.170 RE/FT = .43170-01 P0 = 536.10 T0 = 3720.0 H0 = 25.490

SECTION (1)VERTICAL DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 .3060

40.000 .4186

41.000 .5206

42.000 .0399

MACH (7) = 19.160 ALPHA (1) = 35.030 RE/FT = .44730-01 P0 = 1704.0 T0 = 4753.0 H0 = 34.030

SECTION (1)VERTICAL DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 4.469

40.000 .5865

41.000 .6854

42.000 .0337

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(OUGV13) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 0000 IN.
LREF = 1290.3000 IN YMRP = 0000 IN
BREF = 1290.3000 IN ZMRP = 0000 IN.
SCALE = 1000

ALPHA = 40.000 BETA = 000

MACH (1) = 7.921 ALPHA (1) = 40.000 RE/FT = 7.4790 P0 = 2300.0 T0 = 1596.0 H0 = 10.120

SECTION (1) VERTICAL - DEPENDENT VARIABLE QDOT

Z/BV .7470 8540 9640 1.0000

GAGENO
39.000 10.0400
40.000 14.2800
41.000 14.9300
42.000 2.6680

MACH (2) = 8.024 ALPHA (1) = 40.000 RE/FT = 1.0600 P0 = 921.50 T0 = 2712.0 H0 = 17.700

SECTION (1) VERTICAL DEPENDENT VARIABLE QDOT

Z/BV 7470 8540 9640 1.0000

GAGENO
39.000 9.7210
40.000 14.0100
41.000 15.8500
42.000 1.2280

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 450

OH12/IH21 (CAL HST 173-100) 37 0 T VERTICAL

(OUGV14) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN
 LREF = 1290.3000 IN. YMRP = .0000 IN
 BREF = 1290.3000 IN. ZMRP = 0000 IN.
 SCALE = .1000

ALPHA = .000 BETA = 000

MACH (1) = 16.050 ALPHA (1) = 083 RE/FT = .46340-01 P0 = 577.10 T0 = 3699 0 H0 = 25.320

SECTION (1) VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV 7470 8540 9640 1.0000

GAGENO
 39 000 12 0800
 40 000 15 3200
 41.000 22 5200
 42 000 1 5170

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + 1H21 (CAL HST 173-100)

PAGE 451

OH12/1H21 (CAL HST 173-100) 37 0 . VERTICAL

(000V15) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290 3000 IN YMRP = .0000 IN.
 BREF = 1290 3000 IN ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 25 000 BETA = 000

MACH (1) = 12.030 ALPHA (1) = 25.030 RE/FT = .95540 PO = 4211.0 TO = 3477 0 HO = 23 460

SECTION (1) VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 8540 9640 1.0000

GAGENO

39 000 17.7000

40 000 19 8300

41 000 22 5300

42.000 1.7240

MACH (2) = 15 720 ALPHA (1) = 25.030 RE/FT = 23850 PO = 2417 0 TO = 3531 0 HO = 23 940

SECTION (1) VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV 7470 8540 9640 1.0000

GAGENO

39 000 2 2020

40 000 2 9190

41 000 3 6640

42 000 .4366

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(OUGV16) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290 3000 IN. YMRP = .0000 IN.
 BREF = 1290 3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = 30.000 BETA = .000

MACH (1) = 12.030 ALPHA (1) = 30.100 RE/FT = 96300 P0 = 4246.0 T0 = 3477.0 H0 = 23.460

SECTION (1) VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 11.9600
 40.000 10.3000
 41.000 9.3980
 42.000 1.0450

MACH (2) = 15.720 ALPHA (1) = 30.100 RE/FT = .24490 P0 = 2491.0 T0 = 3535.0 H0 = 23.970

SECTION (1) VERTICAL

DEPENDENT VARIABLE QDOT

Z/BV .7470 .8540 .9640 1.0000

GAGENO

39.000 1.6470
 40.000 2.0680
 41.000 2.3440
 42.000 .3445

OH12/IH21 (CAL HST 173-100) 37 0 VERTICAL

(OUGV17) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = 0000 IN.
 LREF = 1290 3000 IN. YMRP = .0000 IN.
 BREF = 1290 3000 IN ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 35 000 BETA = .000

MACH (1) = 12 060 ALPHA (1) = 35 170 RE/FT = .98280 P0 = 4058.0 T0 = 3362.0 H0 = 22.590

SECTION (1)VERTICAL DEPENDENT VARIABLE QDOT

Z/BV 7470 .8540 .9640 1.0000

GAGENO
 39 000 10 8300
 40 000 10 5700
 41 000 9 8030
 42 000 1 2710

MACH (2) = 15 740 ALPHA (1) = 35.170 RE/FT = .25440 P0 = 2551.0 T0 = 3510 0 H0 = 23.790

SECTION (1)VERTICAL DEPENDENT VARIABLE QDOT

Z/BV 7470 .8540 .9640 1.0000

GAGENO
 39.000 1.5140
 40 000 1 8960
 41 000 2.1970
 42 000 .2981

OH12/IH21 (CAL HST 173-100) 37 0 T-NP WING L.E

(OUGA04) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = 0000 IN
 LREF = 1290 3000 IN YMRP = 0000 IN.
 BREF = 1290 3000 IN ZMRP = 0000 IN
 SCALE = 1000

ALPHA = .000 BETA = .000

MACH (1) = 18 380 ALPHA (1) = 083 RE/FT = 12410-01 PO = 360.50 TD = 4449.0 HO = 31.530

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2 3510 3 5150 4 44590 5 1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|------|--------|--------|--------|-------|-------|-------|
| 000 | 5661 | 1 9780 | 4 3740 | 4 4680 | .3360 | .5277 | 7700 |
| 30.000 | 5947 | 0000 | 4 0070 | 4 0250 | 4443 | .2676 | .8200 |

OH12/IH21 (CAL HST 173-100) 37 0 T HING L.E.

(QUQA05) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290 3000 IN YMRP = .0000 IN
 BREF = 1290 3000 IN ZMRP = 0000 IN.
 SCALE = .1000

ALPHA = .000 BETA = 000

MACH (1) = 6.999 ALPHA (1) = .050 RE/FT = .12050 P0 = 357.80 T0 = 5538 0 H0 = 41 770

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2 3510 3.5150 4.4590 5 1640 6.5080 8 3220

PHI

000 10 8400123 4000183.3000 72 3000 13 1800 13.0200 56 5600
 30 000 9 2860 0000184 5000 50.0700 14.3600 11 7500 46 2200

MACH (2) = 7 616 ALPHA (1) = .050 RE/FT = 1 2040 P0 = 519.30 T0 = 2007.0 H0 = 12.750

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

000 2.5400 62.1000 61.4100 26 7200 3.7580 4.3420 20 4400
 30 000 2 1850 0000 61.4500 29.2100 4.8800 3.7720 17 2500

MACH (3) = 18.330 ALPHA (1) = .083 RE/FT = 12100-01 P0 = 346.80 T0 = 4436.0 H0 = 31.410

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2 3510 3 5150 4.4590 5.1640 6.5080 8 3220

PHI

.000 .4409 2 0080 4 2570 3.6330 .3832 .3675 .2387
 30 000 .3896 .0000 4.0070 4.1710 4644 .3375 5966

MACH (4) = 19 200 ALPHA (1) = .083 RE/FT = .43200-01 P0 = 1602 0 T0 = 4694.0 H0 = 33.500

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2 3510 3.5150 4.4590 5.1640 6.5080 8 3220

PHI

000 1.2330 .0000 19 1200 9.3840 1 0440 1.0460 2.5650
 30 000 .8672 .0000 19 1900 9 2920 1.1280 .9335 2.2170

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 T WING L E.

(OUGA06) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = .0000 IN.
 LREF = 1290 3000 IN YMRP = .0000 IN
 BREF = 1290 3000 IN. ZMRP = 0000 IN.
 SCALE = .1000

ALPHA = 5.000 BETA = .000

MACH (1) = 19.220 ALPHA (1) = -5 083 RE/FT = 43430-01 PO = 1614.0 TO = 4695.0 HO = 33 500

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

000 1 4140 14.7200 22 3600 13 1900 1 3370 1.3000 3.6450
 30.000 1 2540 0000 22.0100 12 7500 1.3850 1.1800 3.5410

OH12/IH21 (CAL HST 173-100) 37 0 WING L E

(OUGA07) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = .0000 IN
 LREF = 1290 3000 IN YMRP = 0000 IN.
 BREF = 1290 3000 IN. ZMRP = 0000 IN.
 SCALE = .1000

ALPHA = 000 BETA = .000

MACH (1) = 6 997 ALPHA (1) = 050 RE/FT = 13020 PO = 384.80 TO = 5526 0 HO = 41 700

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

000 17 6800175 0000186.4000 41 7300 20.5800 18 9800 86.7100
 30.000 15 5000109.0000107.9000 58.6800 22.1600 19 4900 78 9500

MACH (2) = 7 614 ALPHA (1) = 050 RE/FT = 1 2320 PO = 534.30 TO = 2015 0 HO = 12 800

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2.3510 3 5150 4.4590 5.1640 6 5080 8.3220

PHI

000 5.5650 39.6100 42.3300 40.0800 7.7010 0000 30 4800
 30 000 4.8200 39 7700 40 5200 16.4600 8 1730 0000 25 5700

MACH (3) = 16 060 ALPHA (1) = 083 RE/FT = .44180-01 PO = 560.00 TO = 3731 0 HO = 25 530

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2.3510 3.5150 4.4590 5 1640 6.5080 8.3220

PHI

.000 1 2800 9.1950 16 8500 8.0390 .6001 1 3190 3.1370
 30 000 1.1580 9 7370 15.3400 7 8170 1.4370 1.2000 3 1070

MACH (4) = 18 310 ALPHA (1) = .067 RE/FT = 12290-01 PO = 348.20 TO = 4417.0 HO = 31.290

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

000 .5930 4.4080 7.3580 4.7150 .4673 .6181 1.4340
 30.000 .5776 3 2710 6.7640 .0000 .6162 8066 1.5350

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 458

OH12/IH21 (CAL HST 173-100) 37 0 WING L E

(QUGA07)

MACH (5) = 19.190 ALPHA (1) = .067 RE/FT = .44400-01 PO = 1603 0 TD = 4644 0 HO = 33 120

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2 3510 3.5150 4.4590 5 1640 6.5080 8.3220

PHI

000 1.3400 .0000 19 1900 8 3980 1 0930 1 2910 3 9770

30 000 1.3630 0000 16 8200 8 4060 1.4110 1.3240 3.3150

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 459

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E

(OUGA08) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = 0000 IN
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290 3000 IN ZMRP = 0000 IN
 SCALE = 1000

ALPHA = 5 000 BETA = 000

MACH (1) = 19 180 ALPHA (1) = -5 050 RE/FT = .45790-01 P0 = 1649 0 T0 = 4641 0 H0 = 33 120

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2 3510 3.5150 4.4590 5 1640 6 5080 8.3220

PHI

.000 1 3200 16 4200 17.0800 8 5860 1 1890 2 3180 3.6970
 30.000 1 0260 .0000 13.0100 6 8930 1.6500 1.8940 2.8950

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 460

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(QUGA09) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 0000 IN
 LREF = 1290.3000 IN. YMRP = .0000 IN
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 10.000 BETA = .000

MACH (1) = 18.360 ALPHA (1) = 10.120 RE/FT = 12480-01 PO = 347.10 TO = 4373 0 H0 = 30.890

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2 3510 3 5150 4,4590 5 1640 6 5080 8 3220

PHI

| | | | | | | | |
|--------|-------|--------|--------|--------|-------|-------|--------|
| 000 | 9422 | 9 4660 | 7.1650 | 3.0470 | 6974 | 7293 | 1 4650 |
| 30.000 | .9946 | 6.3740 | 8.3230 | 2.7280 | .6646 | .8339 | 1 8000 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L E

(OUGA10) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT. XMRP = .0000 IN
 LREF = 1290 3000 IN YMRP = 0000 IN
 BREF = 1290.3000 IN. ZMRP = .0000 IN
 SCALE = .1000

ALPHA = 25.000 BETA = .000

MACH (1) = 6 973 ALPHA (1) = 25.070 RE/FT = .12370 P0 = 373.20 T0 = 5587.0 H0 = 42.320

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

000 .0000144 9000128 5000 45.2500 .0000 13 0900 33 7200
 30 000 22 6800179 1000177 5000 84.5000 9 7020 24 9700 77.3500

MACH (2) = 7 921 ALPHA (1) = 24 920 RE/FT = 7.3310 P0 = 2181.0 T0 = 1560.0 H0 = 9.9040

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2 3510 3 5150 4 4590 5.1640 6 5080 8 3220

PHI

000 9 4780131 4000 56 7000 21.9200 18.6300 7 8890 29.5800
 30 000 15.2800 0000 99 1300 40 9300 12.7400 18 1100 49 9400

MACH (3) = 8.009 ALPHA (1) = 25 070 RE/FT = .99780 P0 = 900.90 T0 = 2772.0 H0 = 18 130

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2 3510 3.5150 4.4590 5.1640 6.5080 8 3220

PHI

000 11 3400109.2000 64 8900 28.7600 14 1800 7 7790 0000
 30 000 12.8700 88 1400 98 0500 36.4300 5 4030 15 6900 0000

MACH (4) = 10 450 ALPHA (1) = 25.030 RE/FT = 91170 P0 = 2714 0 T0 = 3466.0 H0 = 23.370

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2.3510 3.5150 4 4590 5.1640 6 5080 8.3220

PHI

000 0000143 6000 87 1300 34.0500 .0000 9 8700 47.9700
 30 000 18 1900178 2000 0000 43.9000 6 5380 19 8200 67.9500

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(OUGA10)

MACH (5) = 12.220 ALPHA (1) = 25.030 RE/FT = .26170 PO = 1591.0 TO = 3838.0 HO = 26.430

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 6 1490 82.5900 48.8300 19.1500 8 3600 5.9000 22.5400
30.000 7 4670 86 9700 76 9700 26.1500 4.4510 11.1000 34 0200

MACH (6) = 16.020 ALPHA (1) = 25.030 RE/FT = 44700-01 PO = 565.60 TO = 3735.0 HO = 25.590

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6.5080 8.3220

PHI

.000 1 9670 22 6200 12 7700 4 2880 1.7070 1.6010 5.8240
30.000 2 3330 22 5900 20 5200 6.7580 1.0380 2.8730 7.7470

MACH (7) = 19.180 ALPHA (1) = 25.000 RE/FT = 44510-01 PO = 1618.0 TO = 4658.0 HO = 33.250

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2 3510 3.5150 4 4590 5.1640 6.5080 8.3220

PHI

.000 2.5880 28 6100 15.1300 5.4850 2.8720 1.9760 6 8530
30.000 3.0890 .0000 22.4700 9.9880 1.3820 3.6400 8.1770

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(QUGA11) (18 JUN 75)

REFERENCE DATA

SREF = 2690 0000 SQ FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN
 SCALE = .1000

PARAMETRIC DATA

ALPHA = 30 000 BETA = .000

MACH (1) = 7 011 ALPHA (1) = 30 080 RE/FT = .13080 P0 = 370.80 T0 = 5426 0 H0 = 40 760

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

.000 16.2100156 4000101.8000 27.0900 21.4600 11 5200 0000
 30 000 22 4700153 3000160 7000 41 9400 8 3170 23 1700 0000

MACH (2) = 7 890 ALPHA (1) = 30 080 RE/FT = 75740 P0 = 782.80 T0 = 3018.0 H0 = 19.990

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2 3510 3 5150 4.4590 5 1640 6.5080 8.3220

PHI

000 8.0770 91 0400 63.2500 11.4600 14 0600 6.5600 28 6100
 30 000 13.7500 76 5300 96.5700 27 0100 4 6240 14 2400 45 6900

MACH (3) = 7 922 ALPHA (1) = 30.000 RE/FT = 7.5500 P0 = 2310.0 T0 = 1591.0 H0 = 10 090

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2 3510 3.5150 4 4590 5 1640 6 5080 8 3220

PHI

000 14.1900109.6000 49.4600 13.5200 17.3500 8 0950 26 6900
 30.000 16 4400 0000110 0000 36.6200 5.3660 19 6400 48 5700

MACH (4) = 10 520 ALPHA (1) = 30.100 RE/FT = 1.0520 P0 = 2686.0 T0 = 3202.0 H0 = 21.360

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2 3510 3 5150 4.4590 5.1640 6 5080 8 3220

PHI

.000 11 7500108 9000 67 8800 22.2600 13 9300 6.8270 33.2200
 30.000 16 6600127 0000114.9000 33.3400 5 7950 16 8900 53 0100

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(QUGA11)

MACH (5) = 12.200 ALPHA (1) = 30.100 RE/FT = .25390 P0 = 1613.0 T0 = 3922.0 H0 = 27.090

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 7.4060 64.0400 42.4600 15.5900 7.8040 5.0260 19.5600
30.000 9.7060 73.4000 70.0500 20.8600 3.8570 10.1600 28.7400

MACH (6) = 16.070 ALPHA (1) = 30.100 RE/FT = .45820-01 P0 = 560.60 T0 = 3667.0 H0 = 25.040

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 2.0680 19.3000 8.9510 3.6340 2.3940 1.5820 4.8550
30.000 2.6470 21.6100 19.1500 4.8670 1.3530 3.0280 7.0820

MACH (7) = 19.150 ALPHA (1) = 30.020 RE/FT = .43340-01 P0 = 1643.0 T0 = 4746.0 H0 = 33.960

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 2.5290 22.2800 12.7600 4.8230 2.8190 2.0110 5.8470
30.000 3.7440 26.4900 20.5900 11.0100 1.6640 3.7920 8.4840

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 465

OH12/IH21 (CAL HST 173-100) 37 0 WING L E

(OUGA12) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = .0000 IN.
 LREF = 1290 3000 IN. YMRP = .0000 IN.
 BREF = 1290 3000 IN ZMRP = .0000 IN
 SCALE = 1000

ALPHA = 35 000 BETA = 000

MACH (1) = 6 993 ALPHA (1) = 35 050 RE/FT = .12520 PO = 363.90 TO = 5492 0 HO = 41 400

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2.3510 3 5150 4 4590 5 1640 6.5080 8 3220

PHI

.000 17 7300 128.5000 72.6000 16.6300 21 6100 11.7700 38 6800
 30 000 23.3400 161 6000 154.2000 53.6000 8 5040 25 0400 65.8500

MACH (2) = 7 922 ALPHA (1) = 35 050 RE/FT = 7.5700 PO = 2199 0 TO = 1538 0 HO = 9 7660

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2.3510 3.5150 4 4590 5.1640 6 5080 8 3220

PHI

.000 10 5900 80.7000 42.7300 9 1200 0000 7 3310 20.1500
 30.000 16 6300 63 6700 97 0200 27.3300 4 4250 18 2400 42.1200

MACH (3) = 8.058 ALPHA (1) = 35.050 RE/FT = 1 1090 PO = 894.80 TO = 2594 0 HO = 16.850

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2 3510 3 5150 4.4590 5 1640 6.5080 8 3220

PHI

.000 8.5250 66 1900 39.2700 9 9040 12 3400 5 6010 20.7500
 30 000 12 8700 68 3200 80 3200 27.6200 4 1790 12.9300 33.5000

MACH (4) = 10 730 ALPHA (1) = 30.100 RE/FT = 1.9260 PO = 3818.0 TO = 2727.0 HO = 17.750

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2 3510 3.5150 4 4590 5.1640 6.5080 8 3220

PHI

.000 11 0400 100.0000 64 6600 17.9400 12 4200 6.9950 30 2600
 30 000 15.7800 103.3000 104.3000 28.2100 5 2680 15.5700 45.7500

OH12/IH21 (CAL HST 173-100) 37 0 HING L.E.

(OUGA12)

MACH (5) = 12.230 ALPHA (1) = 35.170 RE/FT = 26590 P0 = 1621.0 T0 = 3839.0 H0 = 26.440

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 7.4060 56.3900 34.7000 9.7580 8.3120 4.4050 16.9200

30.000 10.6900 69.2800 62.1500 16.9400 3.6650 10.8300 28.7300

MACH (6) = 15.960 ALPHA (1) = 35.170 RE/FT = 43170-01 P0 = 536.10 T0 = 3720.0 H0 = 25.490

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 2.3160 15.9800 8.8870 2.4140 2.1940 1.2360 4.3130

30.000 2.8480 21.6300 15.8500 3.7440 8.283 3.1110 6.7580

MACH (7) = 19.160 ALPHA (1) = 35.030 RE/FT = .44730-01 P0 = 1704.0 T0 = 4753.0 H0 = 34.030

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2.3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 2.7870 18.4600 12.2900 3.3330 2.7280 1.9570 5.1790

30.000 3.6610 23.4200 19.9800 8.4460 1.3020 3.8720 8.4230

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 467

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(QUGA13) (18 JUN 75)

REFERENCE DATA

SREF = 2690 0000 SQ FT XMRP = 0000 IN.
 LREF = 1290 3000 IN. YMRP = .0000 IN.
 BREF = 1290 3000 IN. ZMRP = 0000 IN.
 SCALE = 1000

PARAMETRIC DATA

ALPHA = 40 000 BETA = 000

MACH (1) = 7.921 ALPHA (1) = 40.000 RE/FT = 7.4790 P0 = 2300.0 T0 = 1596 0 H0 = 10.120

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QOOT

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

.000 11 4200 60 3700 .0000 .0000 17 9700 7 4950 18.2100
 30 000 18 0500 0000 83.2400 20.2400 4 2810 19.8500 33.8500

MACH (2) = 8 024 ALPHA (1) = 40 000 RE/FT = 1 0600 P0 = 921 50 T0 = 2712 0 H0 = 17.700

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QOOT

Y OR X 1 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

PHI

.000 7 7560 67 9600 31 8100 5 3010 14 4300 5 5820 19 8400
 30 000 14 4400 133 6000 69 5500 17 4000 4 3660 14 0800 39.8500

ORIGINAL PAGE IS
 OF POOR QUALITY

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 468

OH12/IH21 (CAL HST 173-100) 37 0 T HING L.E.

(QUGA14) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN
 LREF = 1290 3000 IN. YMRP = .0000 IN
 BREF = 1290 3000 IN. ZMRP = .0000 IN.
 SCALE = 1000

ALPHA = .000 BETA = .000

MACH (1) = 16 050 ALPHA (1) = .083 RE/FT = .46340-01 PO = 577.10 T0 = 3699 0 H0 = 25.320

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

| Y OR X | 1 | 1550 | 2.3510 | 3.5150 | 4.4590 | 5.1640 | 6.5080 | 8.3220 |
|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| PHI | .000 | 1.0240 | 9.7430 | 19.6300 | 8.8050 | 5783 | .8059 | 2 5410 |
| | 30.000 | .9834 | 7.0070 | 18 7400 | 7.1560 | 1.0400 | .9217 | 2 1990 |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 469

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(QUOTA15) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = .0000 IN.
 LREF = 1290 3000 IN YMRP = .0000 IN
 BREF = 1290 3000 IN ZMRP = .0000 IN
 SCALE = 1000

ALPHA = 25 000 BETA = 000

MACH (1) = 12 030 ALPHA (1) = 25.030 RE/FT = .95540 P0 = 4211.0 T0 = 3477 0 H0 = 23 460

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1.1550 2.3510 3 5150 4.4590 5.1640 6 5080 8.3220

PHI

000 11 4000132 7000 68 4200 29.5400 13 6200 8 0640 29.7500
 30 000 9.3500110 5000106.3000 36 6200 5 9600 16 8600 45.7400

MACH (2) = 15 720 ALPHA (1) = 25 030 RE/FT = .23850 P0 = 2417.0 T0 = 3531.0 H0 = 23.940

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2 3510 3 5150 4.4590 5 1640 6 5080 8 3220

PHI

000 4.6220 50 1700 27 6200 23 1100 4 4440 3 9090 15 7200
 30 000 6 0220 48 5100 44.2900 30 9900 2.8840 6 8640 20 9600

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(QUGA16) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT XMRP = .0000 IN
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 30.000 BETA = .000

MACH (1) = 12.030 ALPHA (1) = 30.100 RE/FT = .96300 P0 = 4246.0 T0 = 3477.0 H0 = 23.460

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2 3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 10 5200 94 1000 57.7000 20.4600 11 1700 7.5980 30 4300
30 000 14 4100107 1000 94 7200 29.7400 5 2690 15.4800 45 9200

MACH (2) = 15.720 ALPHA (1) = 30.100 RE/FT = 24490 P0 = 2491.0 T0 = 3535.0 H0 = 23.970

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2 3510 3.5150 4.4590 5.1640 6.5080 8.3220

PHI

000 5 0430 36.3600 47 0100 17.8200 5 8190 3 4830 12.5700
30 000 6 6870 53 3500 89 9500 25 5900 2.9330 7 6130 18.9800

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(QUGA17) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT XMRP = .0000 IN.
 LREF = 1290 3000 IN YMRP = .0000 IN.
 BREF = 1290 3000 IN ZMRP = .0000 IN
 SCALE = .1000

ALPHA = 35.000 BETA = .000

MACH (1) = 12.060 ALPHA (1) = 35.170 RE/FT = .98280 PO = 4058.0 TO = 3362.0 HO = 22.590

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2 3510 3 5150 4.4590 5.1640 6.5080 8.3220

PHI

.000 12 3000 91 7400 53 4000 14.3600 14 0700 7.7410 27 4500
 30.000 17 2900 111 7000 99 0400 24 9600 5.9050 18 3500 46.6600

MACH (2) = 15.740 ALPHA (1) = 35.170 RE/FT = 25440 PO = 2551.0 TO = 3510.0 HO = 23.780

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y OR X 1 1550 2 3510 3 5150 4.4590 5.1640 6 5080 8 3220

PHI

.000 5 1690 36 8200 22 2200 6.3950 5 8840 3.4280 11.3700
 30 000 7 0060 45 8200 37 1300 11.7100 2 7230 6 9230 16.9500

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 472

OH12/IH21 (CAL HST 173-100) 37 0 T-NP WING L.E.

(QUQC04) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = .000 BETA = .000

MACH (1) = 18.360 ALPHA (1) = .083 RE/FT = .12410-01 PO = 360.50 TO = 4449 0 HO = 31.530

SECTION (1) LEADING EDGE , DEPENDENT VARIABLE QDOT

Y 2.8130 4.0220

D

- 048 3 9100 0000
 - 028 3 4220
 - 024 10.5800
 000 3.1230 7 8090
 019 0000
 .023 6 8850
 041 4 1830
 045 4 6760
 056 0000
 .057 4 8940
 .077 0000
 .090 2 7530
 093 0000
 .113 2.3200

OH12/IH21 (CAL HST 173-100) 37 O T WING L.E.

(OUGC05) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XHRP = .0000 IN.
 LREF = 1290 3000 IN YNRP = .0000 IN.
 BREF = 1290 3000 IN. ZHRP = .0000 IN.
 SCALE = 1000

ALPHA = 000 BETA = 000

MACH (1) = 6 999 ALPHA (1) = .050 RE/FT = .12050 P0 = 357.80 T0 = 5538.0 H0 = 41 770

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y 2.8130 4.0220

D
 - .048 104 9000 .0000
 -.028 124.2000
 -.024 171 9000
 .000 136.8000 200.4000
 .019 0000
 .023 146.0000
 .041 91.1700
 .045 103 5000
 .056 .0000
 .057 96.0600
 .077 .0000
 .090 47.7800
 .093 .0000
 .113 48 6900

MACH (2) = 7 616 ALPHA (1) = .050 RE/FT = 1.2040 P0 = 519 30 T0 = 2007.0 H0 = 12 750

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y 2.8130 4.0220

D
 -.048 30.0500 .0000
 -.028 44.8500
 -.024 53.0500
 .000 50 7300 64.5600
 .019 0000
 .023 53.1900
 .041 35 2900
 .045 32 2900
 .056 .0000
 .057 32.2000
 .077 0000
 .090 17 1300
 .093 .0000
 .113 15 4100

OH12/IH21 (CAL HST 173-100) 37 0 T WING L.E.

(QUGC05)

MACH (3) = 18.330 ALPHA (1) = .083 RE/FT = .12100-01 P0 = 346.80 T0 = 4436 0 H0 = 31.410

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2.8130 4.0220

D

| | | |
|-------|--------|--------|
| - 048 | 3 0020 | 0000 |
| - 028 | 3.4500 | |
| -.024 | | 7.5140 |
| 000 | 3 8910 | 7.2540 |
| .019 | .0000 | |
| .023 | | 5 7700 |
| .041 | 2.8160 | |
| .045 | | 3.3260 |
| .056 | .0000 | |
| .057 | | 2.9720 |
| 077 | .0000 | |
| .090 | | 1 8530 |
| .093 | .0000 | |
| .113 | | 2.3360 |

MACH (4) = 19 200 ALPHA (1) = .083 RE/FT = .43200-01 P0 = 1602.0 T0 = 4694.0 H0 = 33.500

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2.8130 4.0220

D

| | | |
|-------|---------|---------|
| -.048 | 11 7700 | 0000 |
| - 028 | 12 7200 | |
| -.024 | | 23 7800 |
| .000 | 14 2000 | 31 3200 |
| 019 | 0000 | |
| 023 | | 22.5400 |
| .041 | 9.2510 | |
| .045 | | 13 2900 |
| 056 | .0000 | |
| 057 | | 14.7900 |
| 077 | .0000 | |
| .090 | | 8.3650 |
| 093 | .0000 | |
| 113 | | 7 5540 |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 475

OH12/IH21 (CAL HST 173-100) 37 0 T WING L E

(QUGC06) (16 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT XMRP = .0000 IN
 LREF = 1290.3000 IN YMRP = .0000 IN.
 BREF = 1290.3000 IN ZMRP = .0000 IN
 SCALE = 1000

ALPHA = 5 000 BETA = 000

MACH (1) = 19 220 ALPHA (1) = -5 083 RE/FT = 43430-01 P0 = 1614.0 T0 = 4695 0 H0 = 33 500

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2 8130 4 0220

D
 - 048 17 3100 0000
 - 028 17 3200
 -.024 35.3900
 000 19.6900 39 2100
 019 0000
 023 32 0600
 041 12 5800
 045 16 6800
 056 0000
 057 18 5900
 077 0000
 090 13 1500
 .093 0000
 .113 8 7350

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E

(QUGC07) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = 0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = .000 BETA = 000

MACH (1) = 6.997 ALPHA (1) = 050 RE/FT = 13020 P0 = 384.80 T0 = 5526.0 H0 = 41.700

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT
 Y 2.8130 4 0220

D
 -.048 135 6000 97 8000
 -.028 168.7000
 -.024 .0000
 000 200 5000 97 2200
 .019 183.6000
 .023 .0000
 041 151.7000
 045 .0000
 .056 96 1900
 .057 68 7600
 .077 74.9700
 090 0000
 .093 .0000
 .113 .0000

MACH (2) = 7.614 ALPHA (1) = .050 RE/FT = 1.2320 P0 = 534.30 T0 = 2015.0 H0 = 12.800

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT
 Y 2 8130 4 0220

D
 -.048 40 5300 36.8300
 -.028 53 7300
 -.024 47 9400
 000 66 7600 68 5400
 019 74 8300
 023 51 0500
 .041 43.9000
 .045 27.5900
 .056 28.1500
 .057 21.3400
 077 22.5400
 090 11 8200
 .093 10 1600
 .113 13 9100

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 477

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(OUGC07)

MACH (3) = 18 060 ALPHA (1) = 083 RE/FT = .44180-01 P0 = 560 00 TO = 3731 0 HO = 25 530

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2.8130 4 0220

D

| | | |
|-------|-------|---------|
| -.048 | 0000 | 0000 |
| -.028 | 0000 | |
| -.024 | | 17 4600 |
| .000 | .0000 | 21 1400 |
| .019 | 0000 | |
| .023 | | 0000 |
| .041 | 0000 | |
| .045 | | 10.1300 |
| .056 | 0000 | |
| .057 | | 8 8590 |
| .077 | 0000 | |
| .090 | | 7 8960 |
| .093 | .0000 | |
| .113 | | 4 5880 |

MACH (4) = 18 310 ALPHA (1) = .067 RE/FT = .12290-01 P0 = 348 20 TO = 4417 0 HO = 31.290

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2 8130 4 0220

D

| | | |
|-------|--------|--------|
| -.048 | .0000 | 0000 |
| -.028 | 6 2290 | |
| -.024 | | 8 9170 |
| .000 | 9 8730 | 9 1120 |
| .019 | 7 2290 | |
| .023 | | 6 8100 |
| .041 | 5.0190 | |
| .045 | | 4 6100 |
| .056 | 0000 | |
| .057 | | 0000 |
| .077 | 0000 | |
| .090 | | 3 8150 |
| .093 | 0000 | |
| .113 | | 3 2420 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E

(QUGCC07)

MACH (5) = 19.190 ALPHA (1) = .067 RE/FT = 44400-01 P0 = 1603 0 TO = 4644.0 HO = 33.120

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2 8130 4.0220

D

| | | |
|-------|---------|---------|
| -.048 | 0000 | .0000 |
| -.028 | 18.9500 | |
| -.024 | | 19.7500 |
| .000 | 27.2500 | 20.9000 |
| .019 | 13.0900 | |
| .023 | | 15.9500 |
| .041 | 15.6000 | |
| .045 | | 9.7860 |
| .056 | 17.7600 | |
| .057 | | 9.8700 |
| .077 | 7.0090 | |
| .090 | | 5.5640 |
| .093 | 3.8600 | |
| .113 | | 5.5020 |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 479

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(QUGC08) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ.FT XMRP = .0000 IN.
 LREF = 1290.3000 IN YMRP = 0000 IN
 BREF = 1290 3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 5 000 BETA = 000

MACH (1) = 19 180 ALPHA (1) = -5.050 RE/FT = .45790-01 PO = 1649.0 T0 = 4641.0 HD = 33 120

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QOOT

Y 2 8130 4.0220

D

- 048 32.2600 0000
 - 028 29.2900
 - 024 26 4500
 .000 19.6700 21 3100
 019 15.6100
 023 15 4200
 .041 12.0300
 045 9 5370
 .056 10 3000
 .057 9.1780
 .077 4 9660
 .090 6 3400
 .093 .0000
 .113 5 4360

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 480

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(OUGC09) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = 0000 IN
 SCALE = 1000

ALPHA = 10.000 BETA = .000

MACH (1) = 18.360 ALPHA (1) = 10 120 RE/FT = .12480-01 P0 = 347.10 T0 = 4373.0 H0 = 30 890

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2 8130 4 0220

D

-.048 .0000 .0000
 -.028 7.3230
 -.024 5.9620
 .000 15.6000 8 7620
 .019 8.3600
 .023 7 6110
 .041 10 1800
 .045 6 0850
 .056 5 9500
 .057 5 5190
 .077 6 9430
 .090 5 0940
 .093 3.8930
 .113 3 3950

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH2: (CAL HST 173-100)

PAGE 481

OH12/IH2: (CAL HST 173-100) 37 0 WING L E

(QUGC10) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XHRP = 0000 IN
 LREF = 1290 3000 IN YHRP = 0000 IN
 BREF = 1290 3000 IN ZHRP = 0000 IN
 SCALE = .1000

ALPHA = 25 000 BETA = 000

MACH (1) = 6 973 ALPHA (1) = 25 070 RE/FT = 12370 P0 = 373.20 T0 = 5587.0 H0 = 42.320

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2 8130 4 0220

D
 - 048 55 7800 47 1700
 - 028 79 3900
 - 024 57 1100
 000 120 0000 0000
 019 214 8000
 023 0000
 041 134 9000
 045 0000
 056 118 7000
 057 120 7000
 077 115 0000
 090 99 3100
 093 99 4700
 113 82.9200

MACH (2) = 7 921 ALPHA (1) = 24.920 RE/FT = 7.3310 P0 = 2181.0 T0 = 1560.0 H0 = 9.9040

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2,8130 4 0220

D
 -.048 33 2600 0000
 -.028 55 3200
 - 024 37.0700
 000 72 4500 80.8300
 019 0000
 023 99 4600
 .041 102 9000
 .045 75 3500
 .056 0000
 057 91.7100
 077 0000
 090 78 5700
 093 0000
 113 46 7600

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E. (QU6C10)

MACH (3) = 8.009 ALPHA (1) = 25.070 RE/FT = .99780 PD = 900.90 TO = 2772.0 HO = 18.130

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y 2.8130 4.0220

D

| | | |
|-------|---------|----------|
| -.048 | 29.7400 | .0000 |
| -.028 | 47.5800 | |
| -.024 | | 30 1900 |
| .000 | 67 3600 | 97 5600 |
| .019 | 82 1000 | |
| .023 | | 108 8000 |
| .041 | 79 0100 | |
| .045 | | 79.9900 |
| .056 | 71 1600 | |
| .057 | | 102.5000 |
| .077 | 57 6700 | |
| .090 | | 57 6700 |
| .093 | .0000 | |
| .113 | | 45 3700 |

MACH (4) = 10.450 ALPHA (1) = 25.030 RE/FT = .91170 PD = 2714.0 TO = 3466.0 HO = 23.370

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y 2.8130 4.0220

D

| | | |
|-------|----------|----------|
| - 048 | 84 6800 | 0000 |
| -.028 | 74 5300 | |
| -.024 | | 63.8800 |
| .000 | 123.7000 | 142.2000 |
| .019 | 105.6000 | |
| .023 | | .0000 |
| .041 | 86.3000 | |
| .045 | | 104 1000 |
| .056 | 81 5600 | |
| .057 | | 140.2000 |
| .077 | 61.4200 | |
| .090 | | 70.6700 |
| .093 | 0000 | |
| .113 | | .0000 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E

(OUGC10)

MACH (5) = 12.220 ALPHA (1) = 25.030 RE/FT = 26170 PD = 1591.0 TD = 3938.0 HD = 26.430

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y 2 8130 4 0220

D

| | | |
|--------|---------|---------|
| -.048 | 31.8100 | 0000 |
| - .028 | 54 7900 | |
| - .024 | | 16 9800 |
| .000 | 59 1200 | 33 1600 |
| .019 | 65.5100 | |
| .023 | | 0000 |
| .041 | 49 0700 | |
| .045 | | 28 0300 |
| .056 | 53 9300 | |
| .057 | | 33 6500 |
| .077 | 33 6900 | |
| .090 | | 19 7100 |
| .093 | .0000 | |
| .113 | | 37 6500 |

MACH (6) = 16.020 ALPHA (1) = 25.030 RE/FT = .44700-01 PD = 565.60 TD = 3735.0 HD = 25.590

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y 2 8130 4 0220

D

| | | |
|--------|---------|---------|
| -.048 | 7 6250 | 0000 |
| - .028 | 11 7200 | |
| - .024 | | 7 1080 |
| .000 | 15 3800 | 16 8700 |
| .019 | 13.1800 | |
| .023 | | 0000 |
| .041 | 12.7500 | |
| .045 | | 14 5100 |
| .056 | 13 4700 | |
| .057 | | 16 8200 |
| .077 | 14 1700 | |
| .090 | | 12 7500 |
| .093 | 0000 | |
| .113 | | 9.8940 |

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 484

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(QUGC10)

MACH (7) = 19.180 ALPHA (1) = 25.000 RE/FT = .44510-01 P0 = 1618 0 T0 = 4658.0 H0 = 33 250

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2.8130 4.0220

D

| | | |
|-------|---------|---------|
| -.048 | .0000 | 0000 |
| - 028 | 28.4900 | |
| - 024 | | 9 8290 |
| 000 | 17 5700 | 16.7000 |
| .019 | 18 4300 | |
| 023 | | 22.4700 |
| .041 | 15 7100 | |
| 045 | | 19 8600 |
| 056 | 14.8800 | |
| .057 | | 20 8500 |
| .077 | 0000 | |
| .090 | | 17.7000 |
| .093 | 14 7900 | |
| .113 | | 13 7200 |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 485

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(QUCC11) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = 0000 IN.
 LREF = 1290 3000 IN YMRP = .0000 IN
 BREF = 1290 3000 IN ZMRP = .0000 IN
 SCALE = .1000

ALPHA = 30 000 BETA = .000

MACH (1) = 7 011 ALPHA (1) = 30 080 RE/FT = .13080 P0 = 370 80 T0 = 5426 0 H0 = 40 760

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2 8130 4 0220

D
 - 048 0000 .0000
 - .028 70 4600
 - .024 44 4700
 .000 120.4000143 3000
 .019 136 7000
 .023 158.3000
 041 174.6000
 045 130.9000
 .056 106 5000
 057 168 9000
 077 164.3000
 090 100.0000
 .093 86 6200
 .113 79 1300

MACH (2) = 7 890 ALPHA (1) = 30.080 RE/FT = .75740 P0 = 782 80 T0 = 3018.0 H0 = 19.990

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2 8130 4.0220

D
 - 048 40.2300 .0000
 - .028 39 9600
 - .024 21 0700
 .000 72 1600 85.5100
 019 75 7700
 023 99.8200
 041 .86 6300
 045 67 1300
 .056 77 8500
 .057 87 1300
 .077 79 2100
 .090 76.7800
 093 52.5200
 .113 45 1500

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(OUGC11)

MACH (3) = 7.922 ALPHA (1) = 30 000 RE/FT = 7 5500 P0 = 2310.0 T0 = 1591.0 H0 = 10.090

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2.8130 4.0220

D

| | | |
|-------|----------|----------|
| - 048 | 30 1000 | .0000 |
| -.028 | 67 0000 | |
| - 024 | | 26 5400 |
| .000 | 101.1000 | 68.5800 |
| 019 | .0000 | |
| .023 | | 101 9000 |
| 041 | 141 7000 | |
| .045 | | 86 1500 |
| 056 | .0000 | |
| 057 | | 153 0000 |
| 077 | 96.4400 | |
| 090 | | 126.7000 |
| 093 | 94 0700 | |
| .113 | | 98.6200 |

MACH (4) = 10 520 ALPHA (1) = 30 100 RE/FT = 1.0520 P0 = 2686 0 T0 = 3202 0 H0 = 21.360

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2 8130 4.0220

D

| | | |
|-------|---------|----------|
| - 048 | 44 2100 | .0000 |
| -.028 | 56 0500 | |
| - 024 | | 34.5400 |
| .000 | .0000 | 98 5100 |
| 019 | .0000 | |
| 023 | | 0000 |
| .041 | 76.2400 | |
| .045 | | 94 6700 |
| 056 | 78.4000 | |
| .057 | | 111 1000 |
| 077 | 0000 | |
| 090 | | 66.2400 |
| .093 | .0000 | |
| 113 | | 62.4200 |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 487

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(QUQC111)

MACH (5) = 12 200 ALPHA (1) = 30 100 RE/FT = .25390 P0 = 1613.0 T0 = 3922.0 H0 = 27.090

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y 2.8130 4 0220

D

| | | |
|-------|---------|---------|
| - 048 | 26.6900 | .0000 |
| - 028 | 43 3900 | |
| - 024 | 25 2900 | |
| 000 | 48 7100 | 60 3500 |
| 019 | 58 3900 | |
| 023 | | 0000 |
| 041 | 38 9000 | |
| 045 | | 57 1700 |
| 056 | 48 9800 | |
| 057 | | 64 8400 |
| 077 | 34 2500 | |
| .090 | | 40.5200 |
| 093 | 0000 | |
| 113 | | 37 2100 |

MACH (6) = 16 070 ALPHA (1) = 30 100 RE/FT = .45820-01 P0 = 560.60 T0 = 3667 0 H0 = 25 040

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y 2.8130 4 0220

D

| | | |
|-------|---------|---------|
| -.048 | 8 3310 | 0000 |
| - 028 | 11 9100 | |
| - 024 | 5 5120 | |
| .000 | 14 0200 | 12 9100 |
| .019 | 14.1900 | |
| .023 | | 0000 |
| .041 | .0000 | |
| .045 | | 14 9200 |
| 056 | 0000 | |
| 057 | | 18 3000 |
| 077 | 15.5000 | |
| .090 | | 10 9100 |
| .093 | .0000 | |
| .113 | | 10 6500 |

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 488

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E. (OUGC11)

MACH (7) = 19 150 ALPHA (1) = 30.020 RE/FT = .43340-01 PO = 1643 0 TO = 4746 0 HO = 33 960

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2 8130 4.0220

D

| | | |
|-------|---------|---------|
| - 048 | 17.1500 | .0000 |
| -.028 | 20 9000 | |
| -.024 | | 6 4740 |
| .000 | 14 2700 | 17 4200 |
| .019 | 21 1500 | |
| .023 | | 22.5200 |
| .041 | 16 3300 | |
| .045 | | 20.5000 |
| .056 | 16 5100 | |
| .057 | | 22 9200 |
| .077 | 0000 | |
| .090 | | 14 4400 |
| .093 | .0000 | |
| .113 | | 13 6000 |

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(OUGC12) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = 0000 IN
 LREF = 1290 3000 IN YMRP = 0000 IN
 BREF = 1290 3000 IN. ZMRP = .0000 IN
 SCALE = 1000

ALPHA = 35 000 BETA = 000

MACH (1) = 6 993 ALPHA (1) = 35 050 RE/FT = 12520 PO = 363.90 TO = 5492 0 HO = 41 400

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2.8130 4.0220

D

-.048 .0000 .0000
 -.028 69 2800
 -.024 33 1800
 .000 146.8000 166.9000
 .019 154.5000
 .023 171.0000
 .041 242 2000
 .045 143.4000
 .056 177.8000
 .057 177.8000
 .077 187 0000
 .090 98.3400
 .093 127.1000
 113 92.4800

MACH (2) = 7 922 ALPHA (1) = 35.050 RE/FT = 7.5700 PO = 2199 0 TO = 1538.0 HO = 9.7660

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2.8130 4.0220

D

-.048 30 3200 .0000
 -.028 42 4600
 -.024 14.6800
 .000 99.9300 47.9700
 .019 112.4000
 .023 97.2600
 .041 177.0000
 .045 108.4000
 .056 .0000
 .057 140.5000
 .077 150 7000
 .090 .0000
 .093 138.8000
 113 87.6100

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E. (OUGC12)

MACH (3) = 8.058 ALPHA (1) = 35.050 RE/FT = 1.1090 PO = 894.80 T0 = 2594.0 H0 = 16.850

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2.8130 4.0220

D

| | | |
|--------|----------|---------|
| -.048 | 32.3400 | .0000 |
| - .028 | 35.8900 | |
| -.024 | | 20.2600 |
| .000 | 85.7500 | 28.0300 |
| .019 | 74.8900 | |
| .023 | | 39.0300 |
| .041 | 113.9000 | |
| .045 | | 78.2600 |
| .056 | 0000 | |
| .057 | | 92.3100 |
| .077 | 100.5000 | |
| .090 | | 73.7400 |
| .093 | 63.5000 | |
| .113 | | 49.5600 |

MACH (4) = 10.730 ALPHA (1) = 30.100 RE/FT = 1.9260 PO = 3618.0 T0 = 2727.0 H0 = 17.750

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2.8130 4.0220

D

| | | |
|--------|---------|----------|
| -.048 | 40.1600 | .0000 |
| - .028 | 72.2300 | |
| -.024 | | 43.0700 |
| .000 | 79.1000 | 91.7800 |
| .019 | 90.0900 | |
| .023 | | .0000 |
| .041 | 67.2900 | |
| .045 | | 79.6300 |
| .056 | 75.1500 | |
| .057 | | 101.6000 |
| .077 | 58.2300 | |
| .090 | | 61.2900 |
| .093 | 0000 | |
| .113 | | 54.3500 |

DATE 18 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 491

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E (OUGC12)

MACH (5) = 12 230 ALPHA (1) = 35.170 RE/FT = .26590 PO = 1621 0 TO = 3839 0 HO = 26 440

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y 2 8130 4 0220

D

| | | |
|--------|---------|---------|
| - .048 | 35 1400 | .0000 |
| -.028 | 41 0900 | |
| -.024 | 18.5900 | |
| .000 | 71.4700 | 44.3300 |
| .019 | 54.4300 | |
| .023 | | .0000 |
| .041 | 62.2600 | |
| .045 | 52 6200 | |
| .056 | 47 6100 | |
| .057 | 69 8500 | |
| .077 | 58.6700 | |
| .090 | 40.6800 | |
| .093 | 0000 | |
| .113 | 38.0100 | |

MACH (6) = 15 960 ALPHA (1) = 35 170 RE/FT = .43170-01 PO = 538 10 TO = 3720.0 HO = 25.490

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y 2 8130 4 0220

D

| | | |
|-------|---------|---------|
| -.048 | 9 5730 | .0000 |
| -.028 | 14 1000 | |
| -.024 | 5.0090 | |
| .000 | 23.6800 | 11 8000 |
| .019 | 16 5500 | |
| .023 | | 0000 |
| .041 | 19.5400 | |
| .045 | 16 1000 | |
| .056 | 15 2300 | |
| .057 | 17.6700 | |
| .077 | 20.6100 | |
| .090 | 12.8400 | |
| .093 | .0000 | |
| .113 | 10 9700 | |

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 492

\ OH12/IH21 (CAL HST 173-100) 37 0 WING L.E. (QU6C12)
MACH (7) = 19.160 ALPHA (1) = 35.030 RE/FT = .44730-01 P0 = 1704.0 T0 = 4753.0 H0 = 34 030

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y 2 8130 4.0220

D

- 048 15.3100 .0000
-.028 23 6900
-.024 5 3540
.000 28.4400 14 3000
019 20.4000
.023 18.0500
041 25 5700
045 21.0800
.056 18.0300
.057 23 5800
077 27.1000
090 20 7300
093 .0000
.113 14 1800

OH12/1H21 (CAL HST 173-100) 37 0 WING L.E.

(OUGC13) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = 40.000 BETA = .000

MACH (1) = 7.921 ALPHA (1) = 40 000 RE/FT = 7.4790 PO = 2300.0 TO = 1596.0 HQ = 10.120

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2 8130 4.0220

D
 - .048 23.0800 .0000
 - .028 38 9700
 - .024 12.0000
 .000 75.6600 45 0800
 .019 .0000
 .023 85.5000
 .041 133.6000
 .045 105 7000
 .056 0000
 .057 147 9000
 .077 139.9000
 .090 102 6000
 .093 144 4000
 .113 104 2000

MACH (2) = 8 024 ALPHA (1) = 40.000 RE/FT = 1.0600 PO = 921.50 TO = 2712.0 HQ = 17.700

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2 8130 4.0220

D
 - .048 25.0400 .0000
 - .028 39.3700
 - .024 11.9300
 .000 78.1700 65 4700
 .019 108.6000
 .023 140.9000
 .041 95.7800
 .045 104.0000
 .056 .0000
 .057 122.6000
 .077 134.7000
 .090 80.5200
 .093 107.3000
 .113 72.8200

ORIGINAL PAGE IS
OF POOR QUALITY

OH12/IH21 (CAL HST 173-100) 37 0 T WING L E.

(QUGC14) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN YMRP = .0000 IN
 BREF = 1290.3000 IN. ZMRP = .0000 IN
 SCALE = 1000

ALPHA = .000 BETA = .000

MACH (1) = 16.050 ALPHA (1) = .083 RE/FT = 46340-01 PO = 577.10 T0 = 3699.0 H0 = 25.320

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2 8130 4.0220

D

- 048 11 1900 0000
 - 028 17 5600
 - 024 19 5700
 .000 14 1700 26 4200
 019 8 4840
 023 .0000
 041 8 2100
 045 12.4300
 056 7 2030
 057 11.3200
 077 5.6330
 090 7.1030
 093 .0000
 113 5 7970

OH12/IH21 (CAL HST 173-100) 37 0 WING L E.

(QUQC15) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT. XMRP = 0000 IN.
 LREF = 1290 3000 IN. YMRP = 0000 IN.
 BREF = 1290 3000 IN. ZMRP = 0000 IN.
 SCALE = .1000

ALPHA = 25 000 BETA = 000

MACH (1) = 12.030 ALPHA (1) = 25 030 RE/FT = .95540 PD = 4211 0 TO = 3477 0 HO = 23 460

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y 2 8130 4 0220

D

-.048 48 9700 0000
 -.028 82 5700
 -.024 44 3500
 .000 97 2300109 5000
 .019 127 8000
 .023 0000
 .041 75 8000
 .045 95 4200
 .056 75.5300
 .057 114 1000
 .077 53.2500
 .090 39 8900
 .093 0000
 .113 54 5600

MACH (2) = 15.720 ALPHA (1) = 25.030 RE/FT = .23850 PD = 2417.0 TO = 3531.0 HO = 23.940

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y 2.8130 4.0220

D

-.048 19.7500 .0000
 -.028 36.9300
 -.024 9 6190
 .000 37.8600 18 7700
 .019 36 9200
 .023 0000
 .041 32 0500
 .045 17 3500
 .056 33 7500
 .057 18.9800
 .077 26 3500
 .090 9 2820
 .093 0000
 .113 43 8400

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E

(QUGC16) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT XMRP = 0000 IN,
 LREF = 1290.3000 IN YMRP = .0000 IN,
 BREF = 1290 3000 IN ZMRP = .0000 IN
 SCALE = 1000

ALPHA = 30 000 BETA = .000

MACH (1) = 12 030 ALPHA (1) = 30 100 RE/FT = 96300 PO = 4246 0 TO = 3477 0 HO = 23.460

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2.8130 4 0220

D

- 048 31 8900 0000
 - 028 58 7500
 - 024 26 3900
 000 64 3200 84 4900
 019 73 1000
 023 .0000
 041 52 2600
 045 78 0500
 056 68 7000
 057 97 5700
 .077 55 5800
 090 53 1700
 093 0000
 113 56 2200

MACH (2) = 15 720 ALPHA (1) = 30.100 RE/FT = .24490 PO = 2491.0 TO = 3535 0 HO = 23.970

SECTION (1) LEADING EDGE

DEPENDENT VARIABLE QDOT

Y 2 8130 4 0220

D

- 048 16 5700 .0000
 - 028 28 1500
 - 024 15 6000
 .000 31.1400 34.4400
 019 35 0700
 .023 0000
 041 24 3200
 .045 35 4900
 056 31 1600
 057 41 3100
 077 24.6100
 090 25 3000
 093 0000
 113 50.1100

DATE 16 OCT 75

TABULATED SOURCE DATA , OH12 + IH21 (CAL HST 173-100)

PAGE 497

OH12/IH21 (CAL HST 173-100) 37 0 WING L.E.

(QUGC17) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF * 2690.0000 SQ FT XMRP * 0000 IN.
 LREF * 1290 3000 IN. YMRP * .0000 IN
 BREF * 1290 3000 IN ZMRP * 0000 IN
 SCALE * 1000

ALPHA = 35 000 BETA = 000

MACH (1) = 12 060 ALPHA (1) = 35 170 RE/FT = 98280 P0 = 4058 0 T0 = 3362 0 H0 = 22 590

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y 2 8130 4 0220

D
 - 048 59 5000 0000
 - 028 62 8400
 - 024 25 5100
 000 111.4000 83 9900
 .019 88 2700
 023 0000
 041 102 5000
 045 84 5000
 056 80 5800
 .057 108 4000
 077 84.5900
 090 58 5600
 .093 0000
 113 63 1000

MACH (2) = 15 740 ALPHA (1) = 35.170 RE/FT = 25440 P0 = 2551 0 T0 = 3510.0 H0 = 23 780

SECTION (1) LEADING EDGE DEPENDENT VARIABLE QDOT

Y 2 8130 4 0220

D
 - 048 23 9600 0000
 -.028 25 9100
 - 024 9 9240
 000 45.0000 29 5200
 019 35.1000
 .023 0000
 041 42 0500
 045 33 0600
 056 33 7100
 057 40 2600
 077 41.6900
 090 26 7000
 .093 0000
 .113 24 2200

OH12/IH21 (CAL HST 173-100) 37 T TANK (OUGT01)

MACH (2) = 7.618 ALPHA (1) = .050 RE/FT = 1.2330 PO = 521.60 T0 = 1984.0 H0 = 12 600

SECTION (1) TANK DEPENDENT VARIABLE QDOT

| | | | | | | | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|------|--------|------|------|-------|--------|
| X/L | .0000 | .0040 | .0100 | .0400 | .0410 | .0800 | .1500 | 2000 | 2010 | 2110 | 2510 | 3440 | 3510 | .3760 | .4000 |
| PHI | | | | | | | | | | | | | | | |
| .000 | 78 2900 | | | 12.5500 | | 7.0690 | 2.5140 | | | | | | | | .8008 |
| 180 000 | 78 2900 | | | | 18.1500 | 9.2090 | 2 9820 | | 1.2710 | 8899 | 6770 | | 4491 | .2759 | |
| 199 000 | 78 2900 | | 58 4700 | | | | | | | | | | | | |
| 220 000 | | 43 6500 | | | | | | | | | | | | | |
| 221 500 | 78.2900 | | | | | | | | | | | | | | 2.1380 |
| 225 000 | | | | | | | | | | | 1 7320 | | | | |
| 241 000 | 78 2900 | | | | | | | | | | | | | | |
| 247 500 | 78 2900 | | | | | | | | | | | | | | |
| 270 000 | 78 2900 | | | | | | | 1 0590 | | | | | | | .5711 |
| 315 000 | 78 2900 | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|---------|-------|--------|--------|-------|-------|--------|--------|--------|--------|-------|--------|--------|-------|--------|-------|
| X/L | .4010 | 4070 | 4260 | .4410 | 4510 | .4760 | 5000 | .5010 | .5510 | .6000 | 6010 | .6510 | .7000 | .7010 | .8000 |
| PHI | | | | | | | | | | | | | | | |
| .000 | | | | | | | | | | .5164 | | | | | .3184 |
| 167 000 | | 4 4740 | | | | | | | | | | | | | |
| 180 000 | 3973 | | 1.6010 | | .0000 | .0000 | | 1.9040 | 2.6770 | | 2.6300 | 2 4580 | | 2.1460 | |
| 193 000 | | 2.1460 | | | | | | | | | | | | | |
| 199 000 | | | | .5667 | | 1.5680 | 1 2520 | | | | | | | | |
| 221 500 | | | | | | | | 9560 | | | 1.1720 | | | 1.2340 | |
| 270 000 | | | | | | | .4645 | | | .5916 | | | .6070 | | .4165 |
| 315 000 | | | | | | | | | | .8606 | | | | | 3957 |

| | | | | | | | | | | | | | | | |
|---------|--------|-------|-------|-------|--------|--------|--------|--------|--------|-------|--|--|--|--|--|
| X/L | 8010 | 8250 | 8510 | .8760 | .9000 | .9010 | .9020 | .9260 | .9360 | .9600 | | | | | |
| PHI | | | | | | | | | | | | | | | |
| 180 000 | 1 9250 | | | | | | 1 1290 | | 2.4750 | | | | | | |
| 199 000 | | | | .7073 | | | | | | | | | | | |
| 221 500 | 1.8950 | | .8637 | | | .0381 | | | | | | | | | |
| 241 000 | | .6128 | .3945 | .1653 | | 1 0350 | | 2.1110 | | .4789 | | | | | |
| 247 500 | | | .7935 | | 1 0810 | | | | | | | | | | |
| 270 000 | | | | | | .3729 | | | | | | | | | |

MACH (3) = 15.990 ALPHA (1) = .083 RE/FT = .44410-01 PO = 559.80 T0 = 3736.0 H0 = 25.620

SECTION (1) TANK DEPENDENT VARIABLE QDOT

| | | | | | | | | | | | | | | | |
|---------|---------|---------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| X/L | 0000 | .0040 | .0100 | 0400 | .0410 | 0800 | .1500 | .2000 | .2010 | .2110 | .2510 | .3440 | .3510 | .3760 | .4000 |
| PHI | | | | | | | | | | | | | | | |
| .000 | 28 7300 | | | 5.9530 | | 3 1770 | 1 2160 | | | | | | | | .2729 |
| 180 000 | 28.7300 | | | | 4 0800 | 3 2730 | 1 3480 | | .6488 | .5954 | .3848 | | .2954 | .2531 | |
| 199 000 | 28.7300 | | 5.2710 | | | | | | | | | | | | |
| 220 000 | | 14.2400 | | | | | | | | | | | | | |
| 221.500 | 28.7300 | | | | | | | | | | | | | | 1111 |

ORIGINAL PAGE IS OF POOR QUALITY

OH12/1H21 (CAL HST 173-100) 37 T TANK (OUGT01)

MACH (3) = 15.990 ALPHA (1) = .083

| SECTION (1)TANK | DEPENDENT VARIABLE QDOT | | | | | | | | | | | | | | | | | |
|-------------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| X/L | .0000 | .0040 | .0100 | .0400 | .0410 | .0800 | .1500 | .2000 | .2010 | .2110 | .2510 | .3440 | .3510 | .3760 | .4000 | | | |
| PHI | | | | | | | | | | | | | | | | | | |
| 225.000 | | | | | | | | | | | | 3525 | | | | | | |
| 241.000 | 28.7300 | | | | | | | | | | | | | | | | | |
| 247.500 | 28.7300 | | | | | | | | | | | | | | | | | |
| 270.000 | 28.7300 | | | | | | | | | | | | .6964 | | | .2275 | | |
| 315.000 | 28.7300 | | | | | | | | | | | | | | | | | |
| X/L | .4010 | .4070 | .4260 | .4410 | .4510 | .4760 | .5000 | .5010 | .5510 | .6000 | .6010 | .6510 | .7000 | .7010 | .8000 | | | |
| PHI | | | | | | | | | | | | | | | | | | |
| .000 | | | | | | | | | | .2565 | | | | | | .1709 | | |
| 167.000 | | | .2764 | | | | | | | | | | | | | | | |
| 180.000 | .2785 | | | .2894 | .2400 | .2002 | | | .1728 | .1787 | | | 1967 | .2279 | | | .1881 | |
| 193.000 | | | | .3370 | | | | | | | | | | | | | | |
| 199.000 | | | | | | 1139 | .0743 | .0666 | | | | | | | | | | |
| 221.500 | | | | | | | | | | .0579 | | | .0765 | | | .0763 | | |
| 270.000 | | | | | | | .2866 | | | | 1957 | | | .1599 | | | .1726 | |
| 315.000 | | | | | | | | | | | 2849 | | | | | .1670 | | |
| X/L | .8010 | .8250 | .8510 | .8760 | .9000 | .9010 | .9020 | .9260 | .9360 | .9600 | | | | | | | | |
| PHI | | | | | | | | | | | | | | | | | | |
| 180.000 | .1878 | | | | | | | .1863 | | | | | .0370 | | | | | |
| 199.000 | | | | | | | .0543 | | | | | | | | | | | |
| 221.500 | .0389 | | | .0362 | | | | .0381 | | | | | | | | | | |
| 241.000 | | | .0000 | .1305 | .1888 | | | .1672 | | | .1370 | | | | .0909 | | | |
| 247.500 | | | | .1581 | | | .2074 | | | | | | | | | | | |
| 270.000 | | | | | | | | | .1572 | | | | | | | | | |

MACH (4) = 18.370 ALPHA (1) = -.050 RE/FT = .12620-01 ,P0 = 383.50 T0 = 4524.0 H0 = 32.180

| SECTION (1)TANK | DEPENDENT VARIABLE QDOT | | | | | | | | | | | | | | | | |
|-------------------|-------------------------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|---------|-------|-------|-------|
| X/L | .0000 | .0040 | .0100 | .0400 | .0410 | .0800 | .1500 | .2000 | .2010 | .2110 | .2510 | .3440 | .3510 | .3760 | .4000 | | |
| PHI | | | | | | | | | | | | | | | | | |
| 000 | 20.5400 | | | | 3.7970 | | | 2.1940 | .7943 | | | | | | | .1950 | |
| 180.000 | 20.5400 | | | | | 3.2120 | 1.9590 | .8679 | | | .3474 | .3758 | .2649 | | | 2167 | .1923 |
| 199.000 | 20.5400 | | | 3.5080 | | | | | | | | | | | | | |
| 220.000 | | | | | | | | | | | | | | 11.2800 | | | |
| 221.500 | 20.5400 | | | | | | | | | | | | | | | | |
| 225.000 | | | | | | | | | | | | 2490 | | | | 0630 | |
| 241.000 | 20.5400 | | | | | | | | | | | | | | | | |
| 247.500 | 20.5400 | | | | | | | | | | | | | | | | |
| 270.000 | 20.5400 | | | | | | | | | | | | .3673 | | | .1 | |
| 315.000 | 20.5400 | | | | | | | | | | | | | | | | |

OH12/IH21 (CAL HST 173-100) 37 0 T TANK

(OUGT05) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690 0000 SQ FT, XMRP = .0000 IN.
 LREF = 1290.3000 IN. YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = .000 BETA = .000

MACH (1) = 7.010 ALPHA (1) = .050 RE/FT = .12810 PO = 372.20 TO = 5483.0 HO = 41.260

SECTION (1) TANK

DEPENDENT VARIABLE QDOT

X/L .0000 .0040 .0100 .0400 .0410 .0800 .1500 .2000 .2010 .2110 .2510 .3440 .3510 .3760 .4000

PHI

.000 225.0000 45.4900 23.4300 8.8170 2.3180
 180.000 225.0000 52.4500 30.2900 10.1300 4.2030 3.1710 2.3560 .9730 3.2050
 199 000 225.0000 141.0000
 220 000 58.0000
 221 500 225 0000
 225 000 1 6970 1.0040
 241 000 225.0000
 247 500 225 0000
 270 000 225 0000 3.9290 1.5560
 315 000 225 0000

X/L .4010 .4070 .4260 .4410 .4510 .4760 .5000 .5010 .5510 .6000 6010 .6510 .7000 .7010 .8000

PHI

.000 1.3820 .7144
 167 000 3.2600
 180 000 2 4500 8.7030 44.1900 10 5600 10.0400 8.5660 7 7150 6 0310 3 2030
 193 000 4.6510
 199 000 20.4700 9.1000 1.7390
 221 500 7.3430 25 7300 15.2700
 270 000 .7765 2.7480 6.4510 1.5170
 315 000 1.4920 1 1840

X/L .8010 .8250 .8510 .8760 .9000 9010 9020 .9260 .9360 .9600

PHI

180 000 2 2620 2 7410 4.2720
 199 000 1.0850
 221 500 8 3860 2.9250 9 1460
 241 000 .5168 .1158 .8710 4 2530 2.9950 .7136
 247 500 .8852 1.0660
 270 000 5.5370

OH12/IH21 (CAL HST 173-100) 37 0 T TANK

(QUOT14) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.
 LREF = 1290.3000 IN YMRP = 0000 IN
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

ALPHA = .000 BETA = .000

MACH (1) = 15 700 ALPHA (1) = .083 RE/FT = 33350 P0 = 4036.0 TO = 3841 0 H0 = 26.420

SECTION (1) TANK DEPENDENT VARIABLE QDOT

X/L 0000 .0040 .0100 .0400 .0410 .0600 .1500 2000 2010 .2110 .2510 3440 .3510 .3760 .4000

PHI

.000 104.2000 .0000 .0000 3.4450 .8384
 180.000 104.2000 19.0800 12.0200 4.1160 1.8380 1.3580 1.0050 .4820 .7138
 199.000 104.2000 49.8500
 220 000 28.9500
 221.500 104.2000 .4090
 225.000 4588
 241 000 104 2000
 247.500 104 2000
 270 000 104 2000 1.3860 .5604
 315.000 104 2000

X/L .4010 .4070 .4260 .4410 .4510 .4760 .5000 .5010 .5510 .6000 .6010 6510 .7000 .7010 .8000

PHI

.000 .6566 2967
 167.000 .4059
 180 000 6089 5 1140 19.4200 3.6930 3.8060 2.1520 2.2580 1.8370 1.6340
 193 000 .4126
 199 000 1.4560 2.0420 .9057
 221 500 3.0770 .0000 3.7710
 270 000 .4576 .2826 .5537 .9930
 315.000 .4382 .2504

X/L .8010 .8250 .8510 .8760 .9000 .9010 9020 .9260 .9360 9600

PHI

180 000 1 2940 8440 .8894
 199 000 .1609
 221.500 1 8100 1.4180 1 8980
 241.000 0000 .0711 .3143 5317 .4527 .1822
 247.500 .2017 .4201
 270 000 .7403

