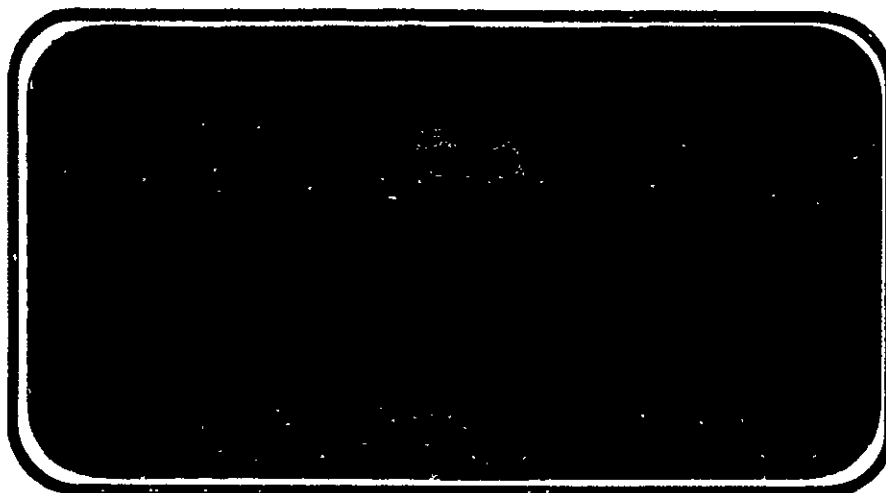




NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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:

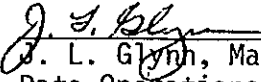
M. Kotch
Rockwell International
Space Division
12214 Lakewood Blvd.
Downey, California 90241


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

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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.

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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 $\frac{778 q_w}{\rho_\infty U_\infty (rH_o - H_w)}$
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.

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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.

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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:			

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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	R/N/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

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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

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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

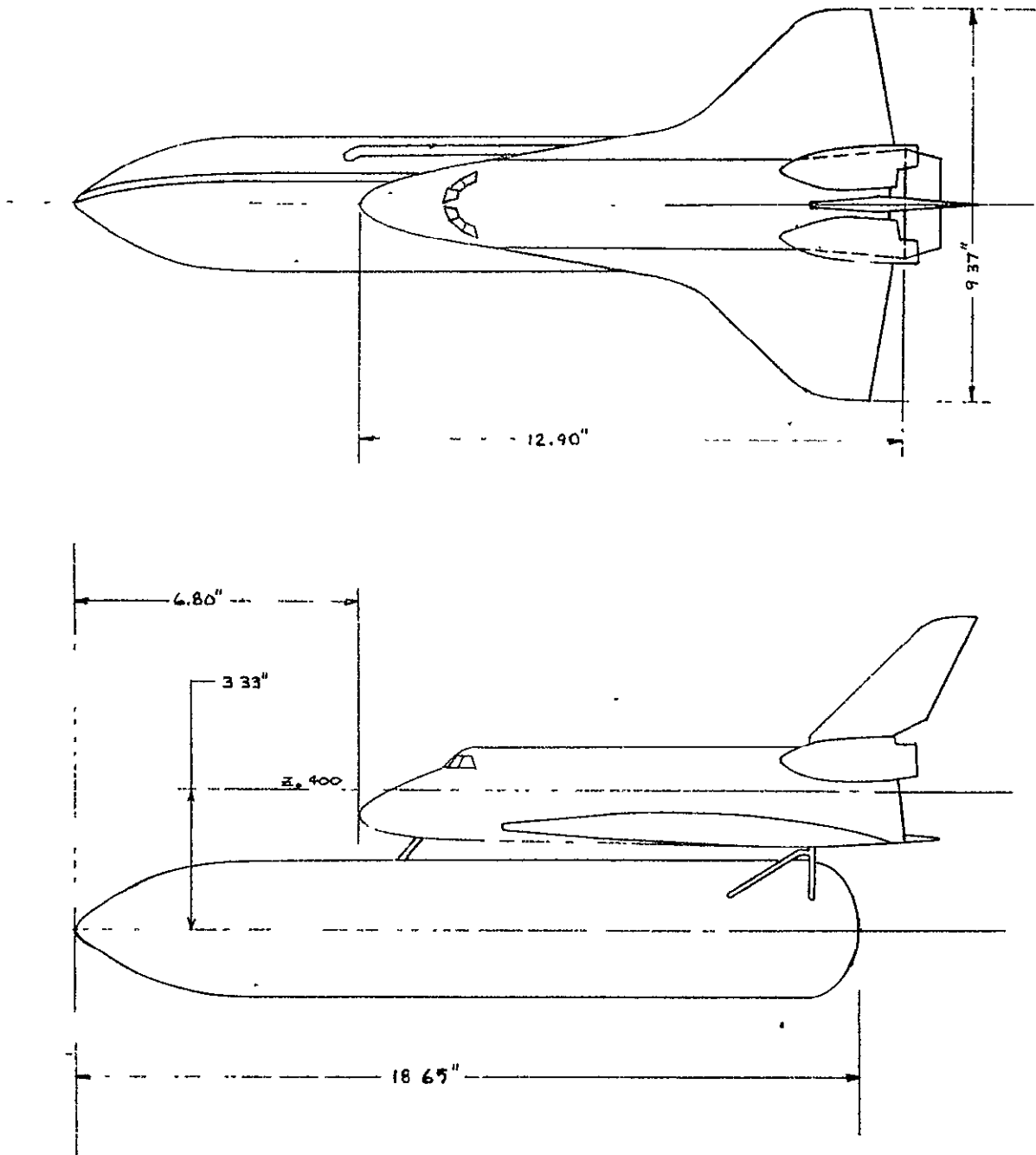
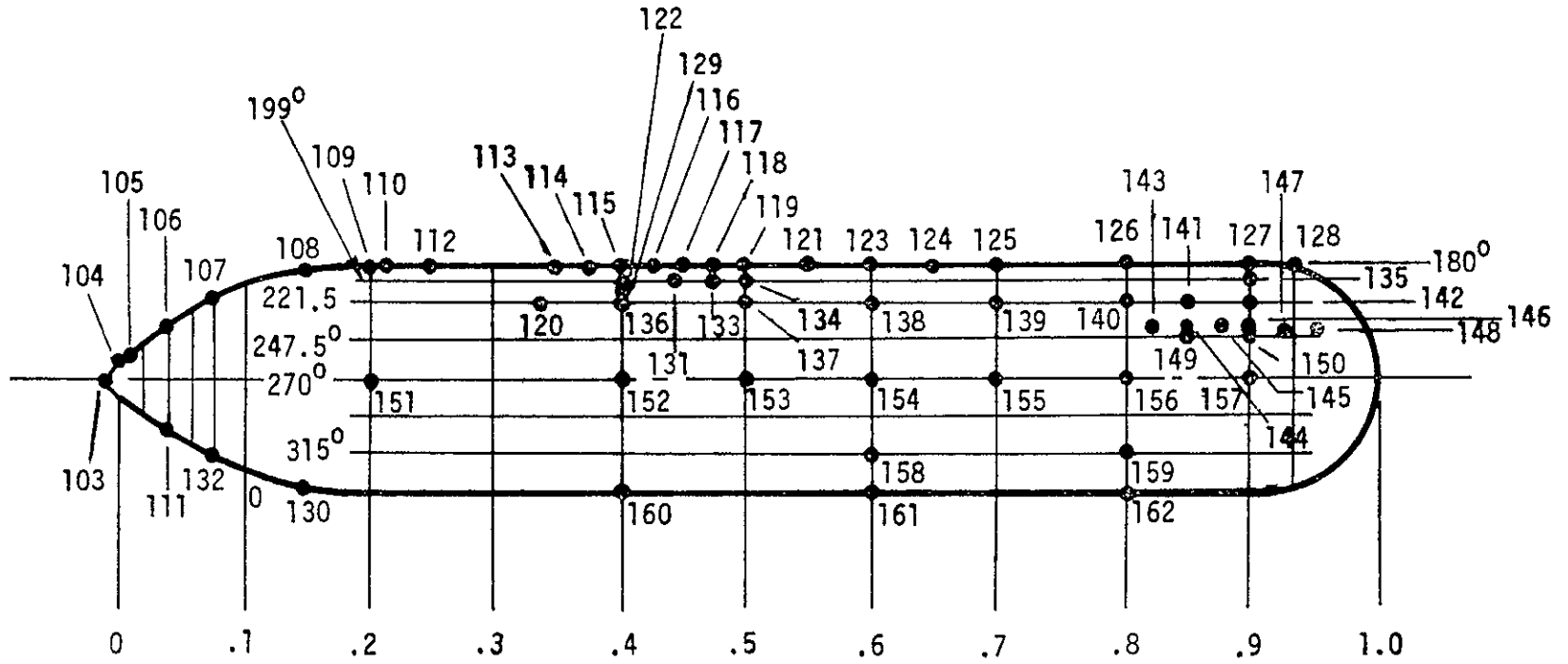
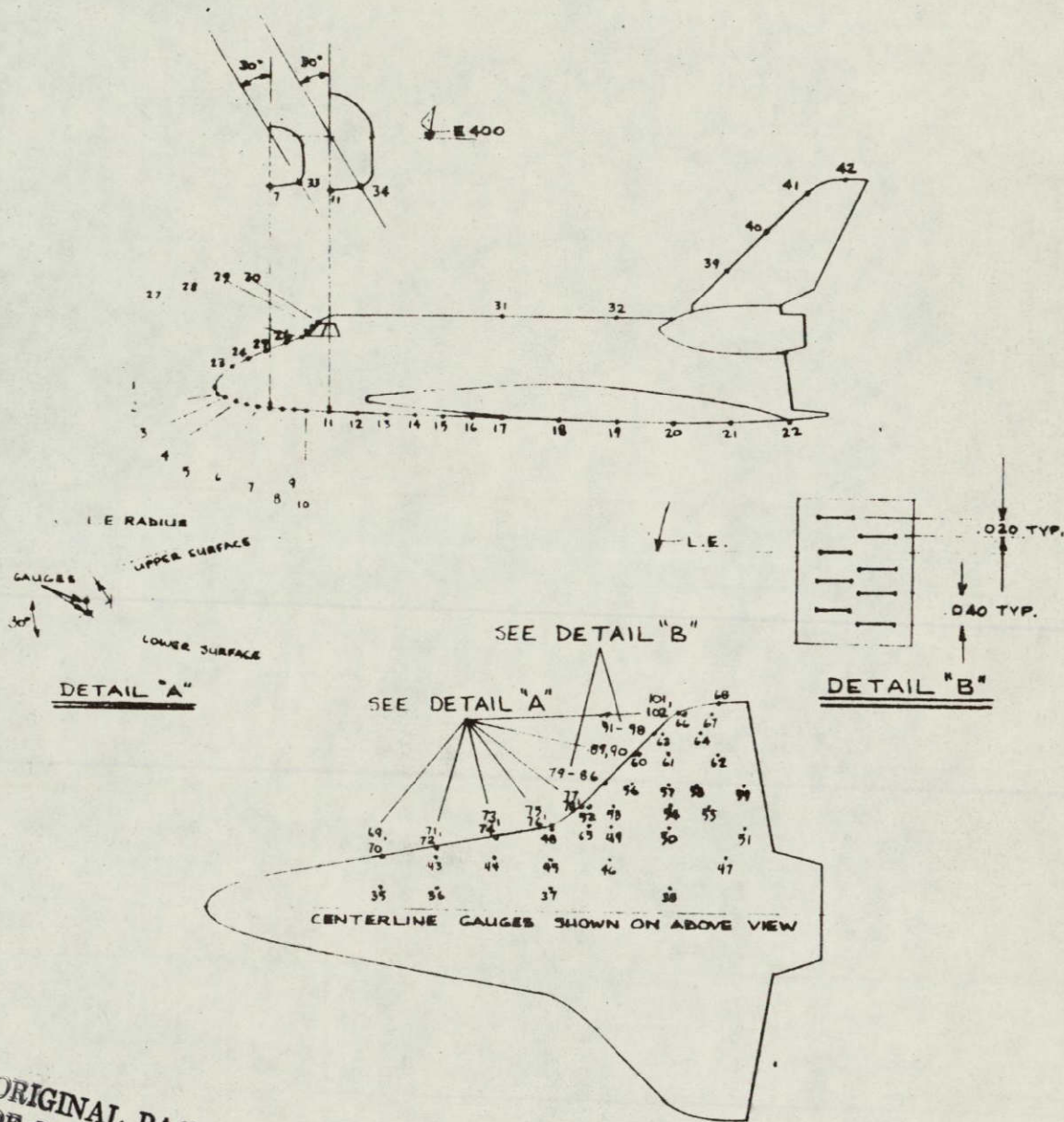


Figure 1. Configuration 3 Orbiter/ET



a. Model 37-T Instrumentation Locations

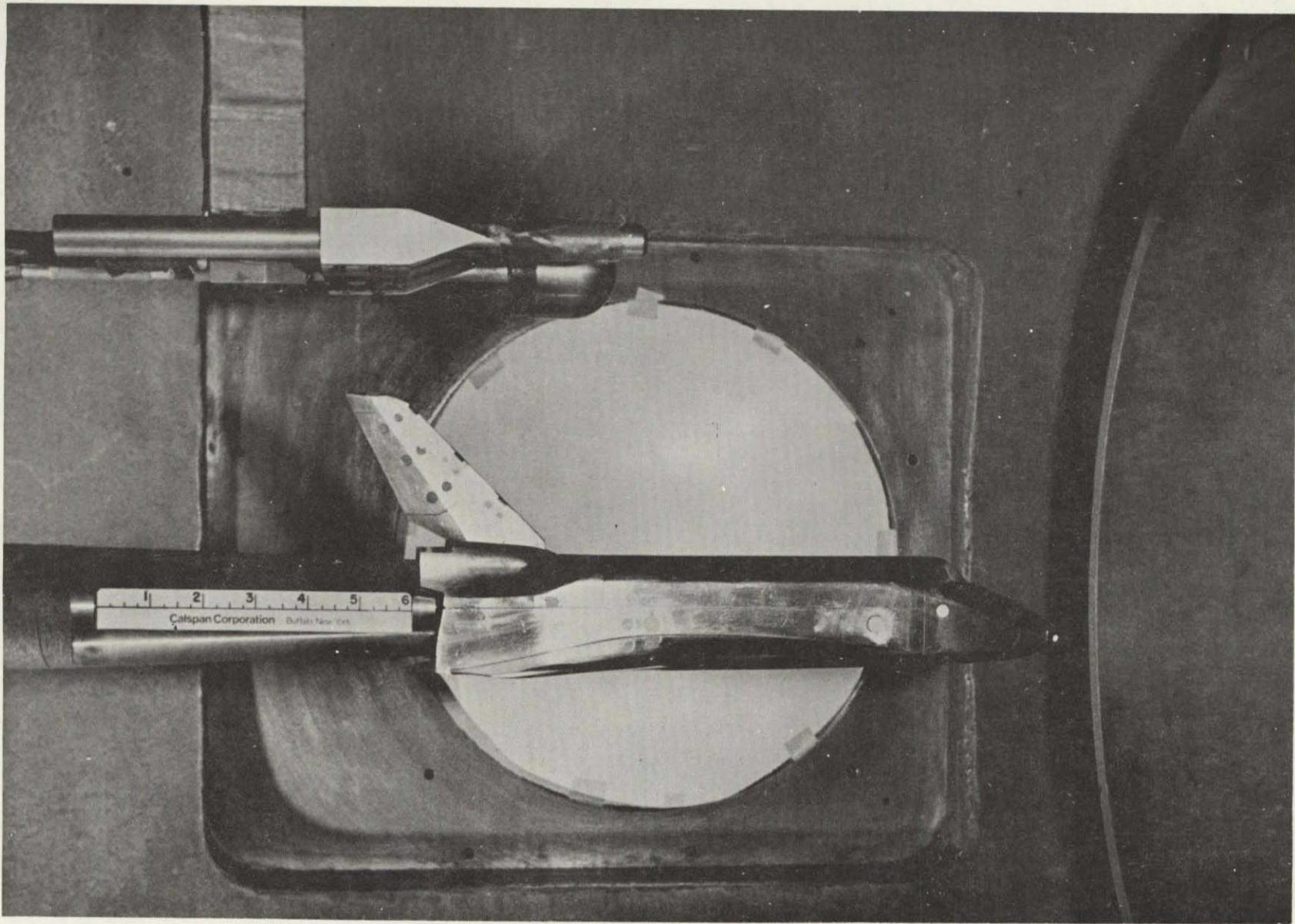
Figure 2. - Model instrumentation.



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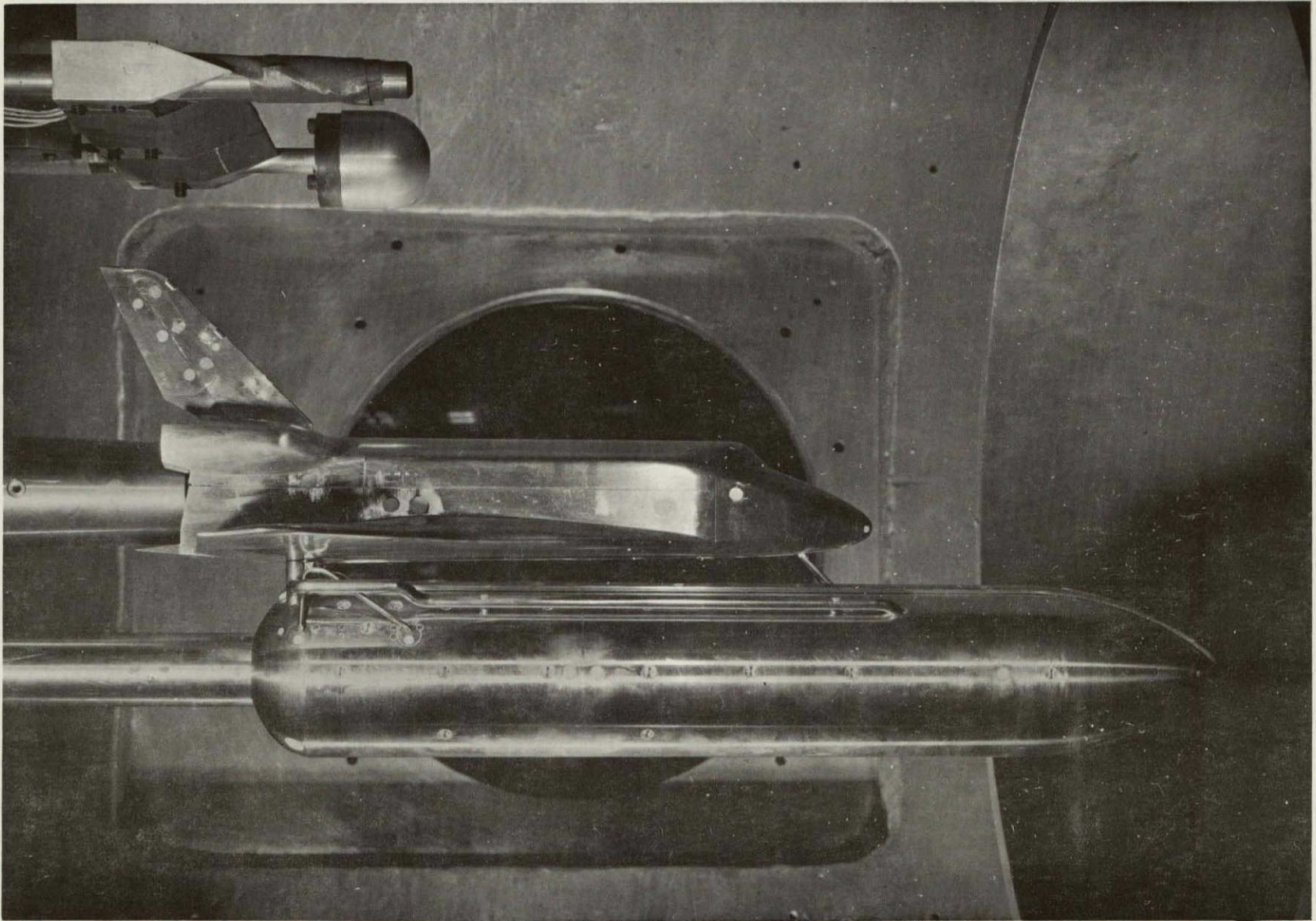
b. 37-0 Instrumentation Locations

Figure 2. - Concluded.



a. Installation of model 37-0 - Orbiter Alone

Figure 3.- Model photographs.

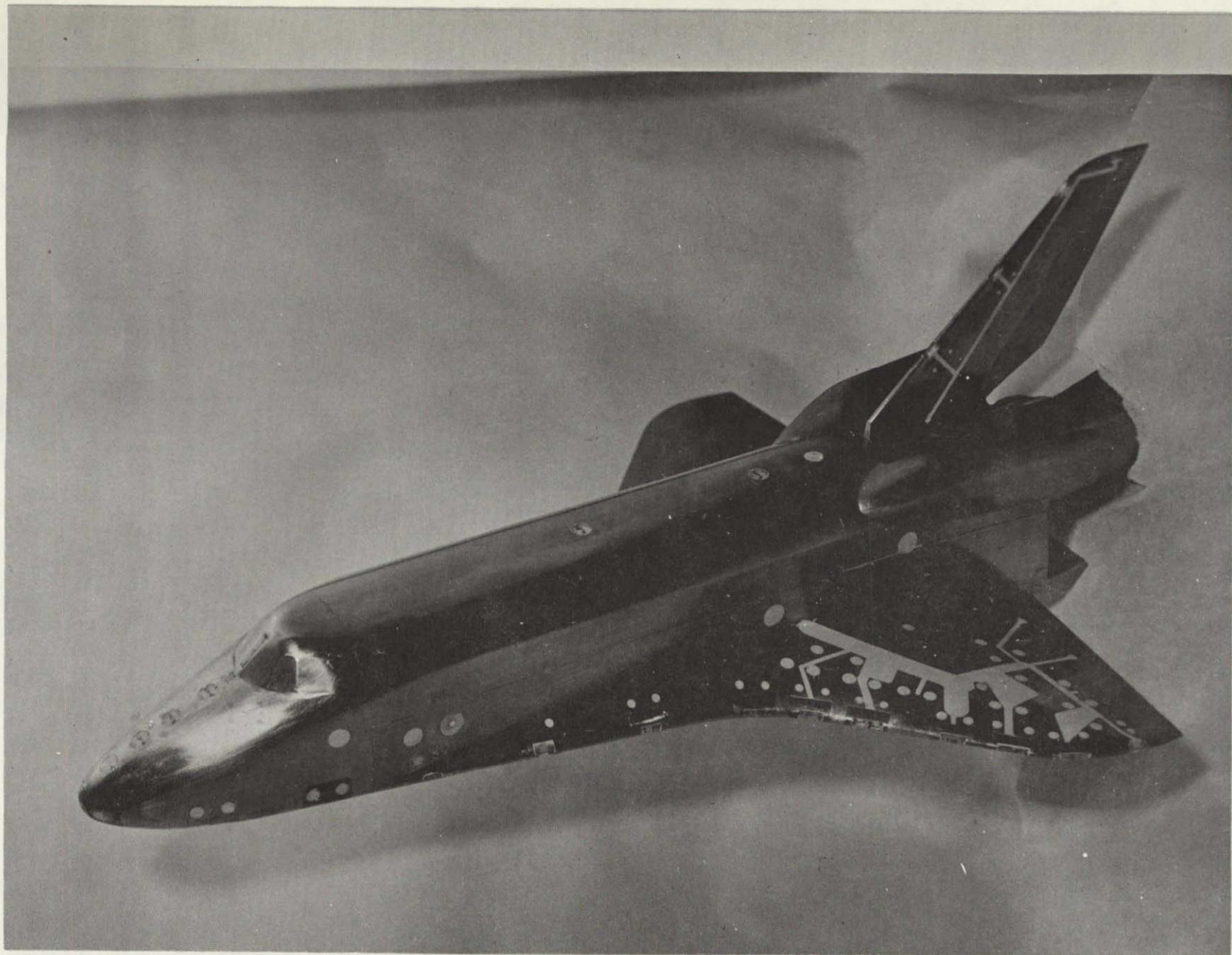


b. Installation of Model 37-0T - Orbiter/Tank

Figure 3. - Continued.

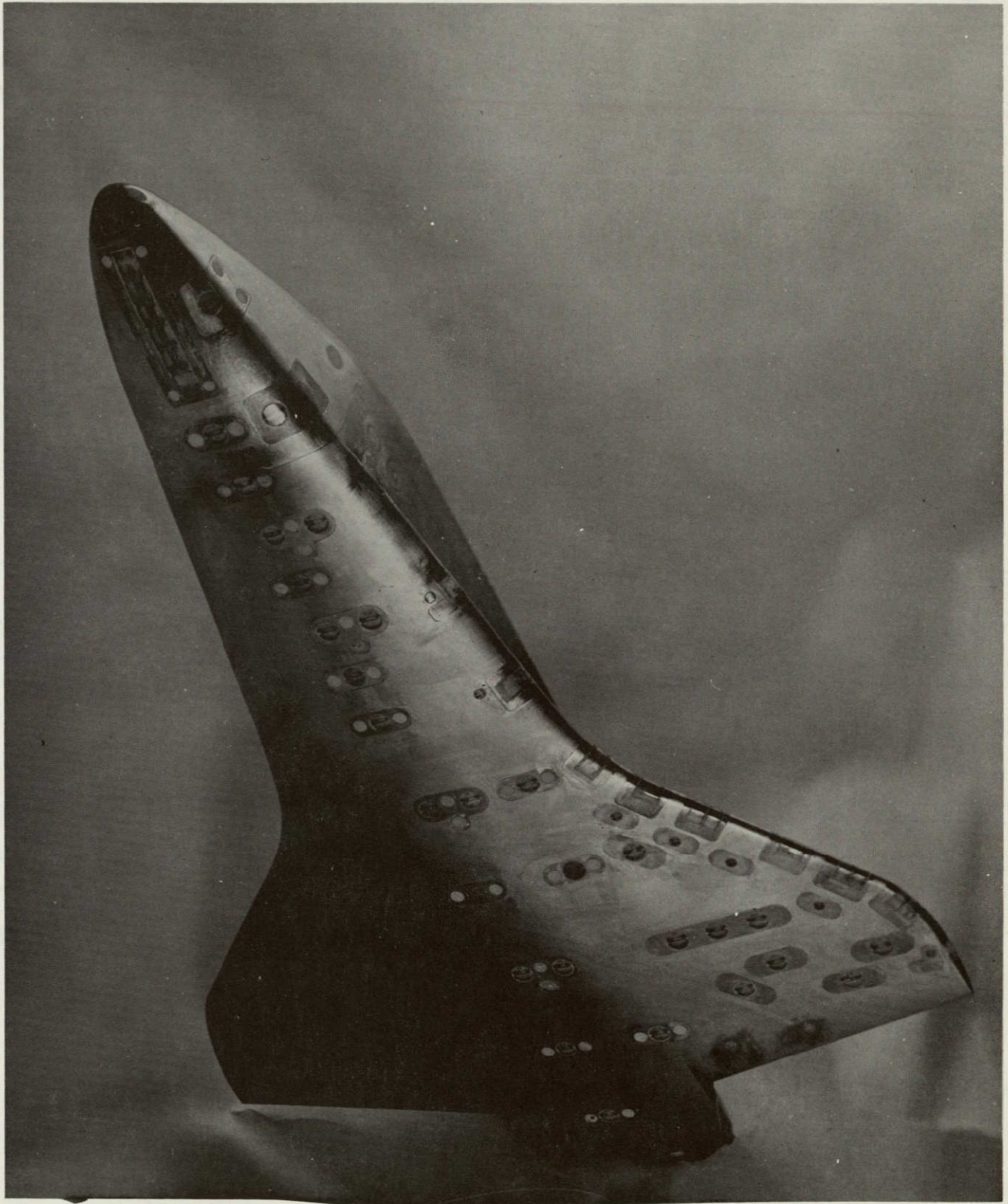
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c. Instrumentation - Orbiter Top View

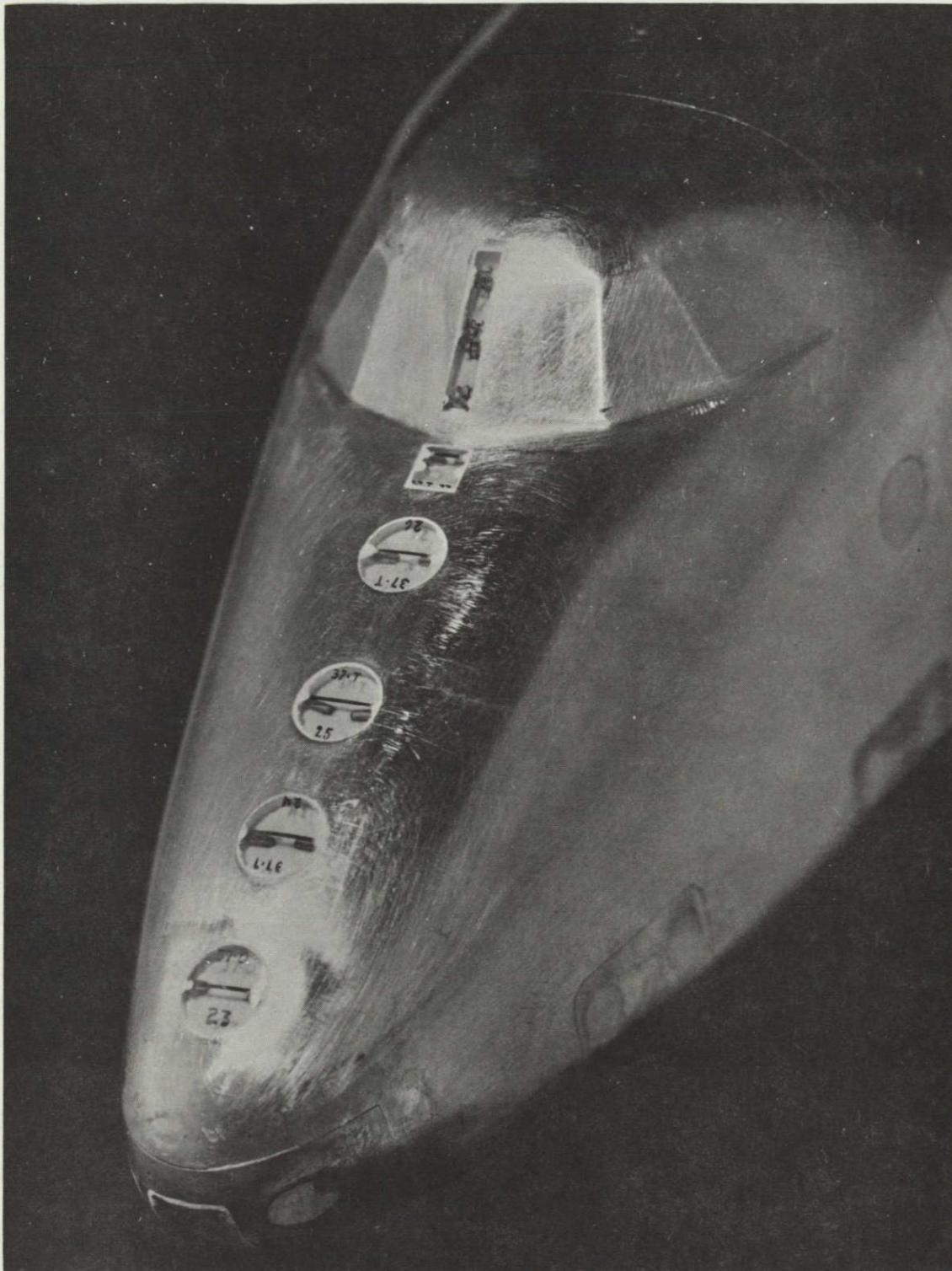
Figure 3. - Continued.



d. Instrumentation - Orbiter Bottom Surface

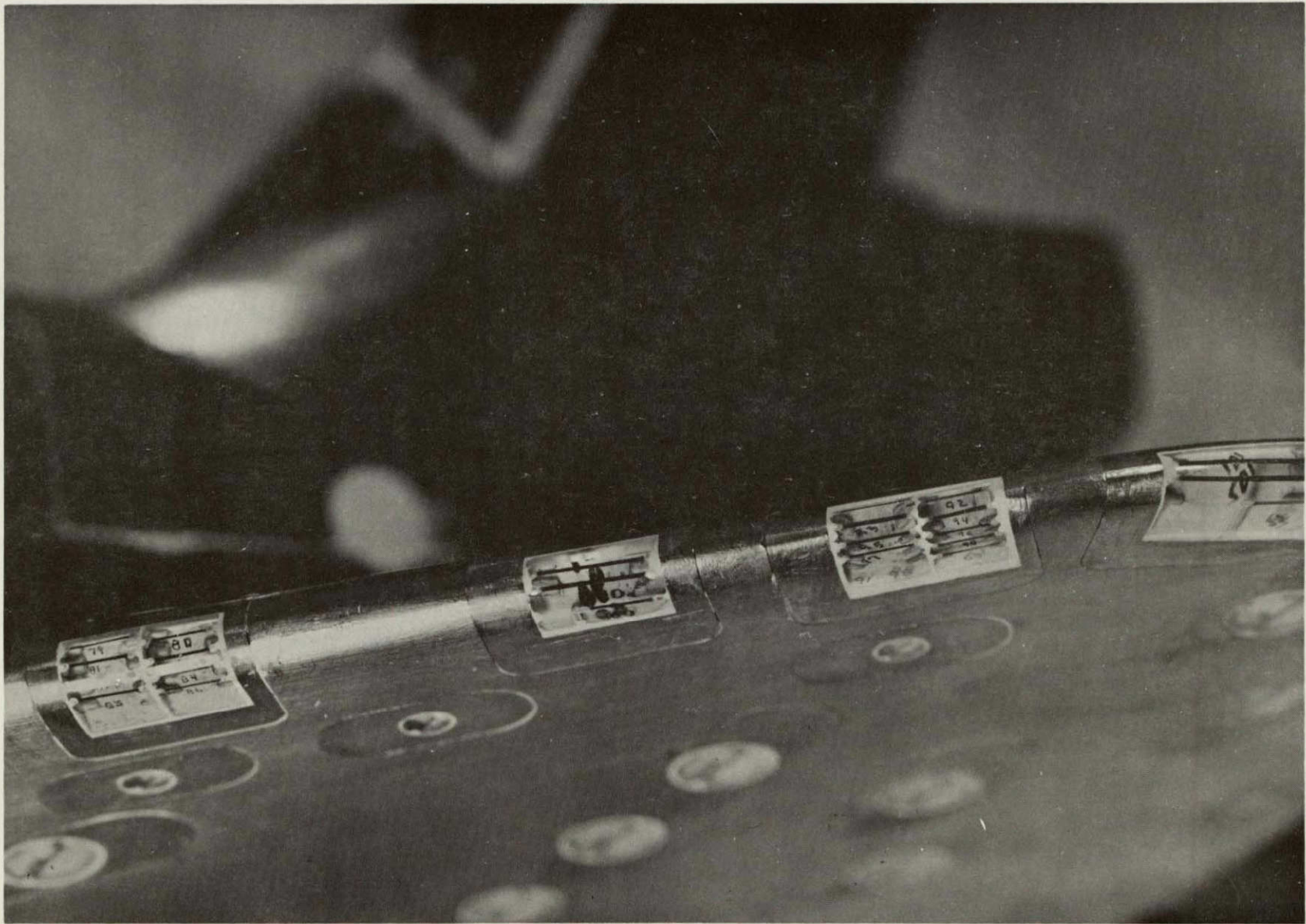
Figure 3. - Continued.

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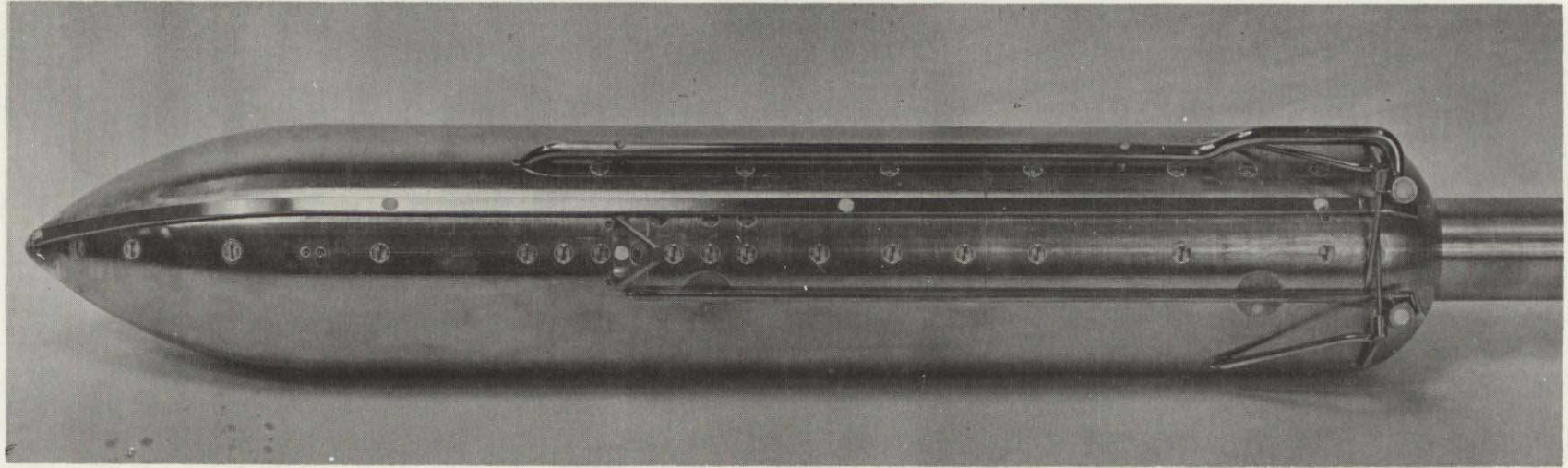
e. Instrumentation - Orbiter Nose and Canopy

Figure 3. - Continued.



f. Instrumentation - Orbiter Wing Leading Edge

Figure 3. - Continued.

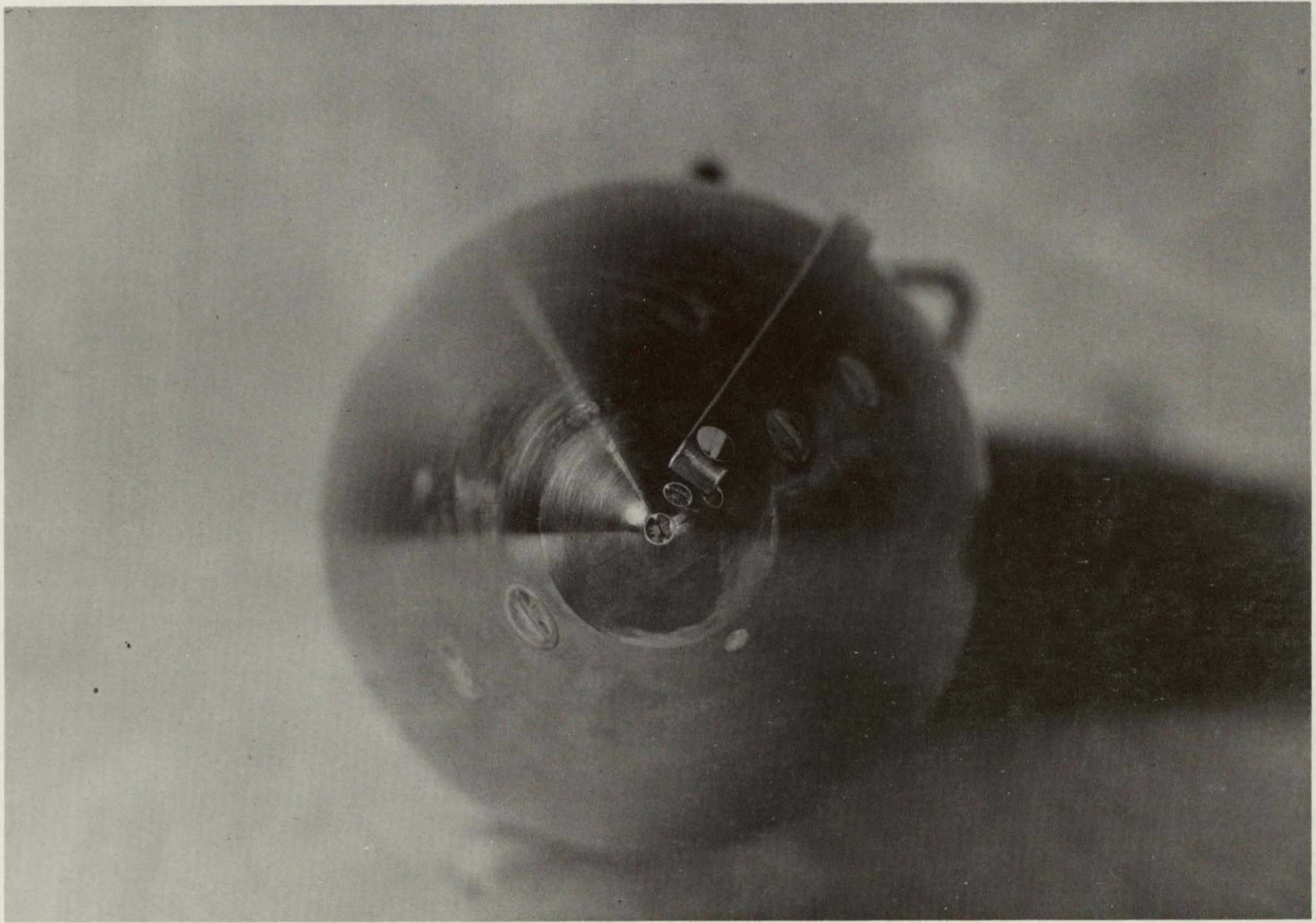


g. Instrumentation - Tank Top View

Figure 3. - Continued.

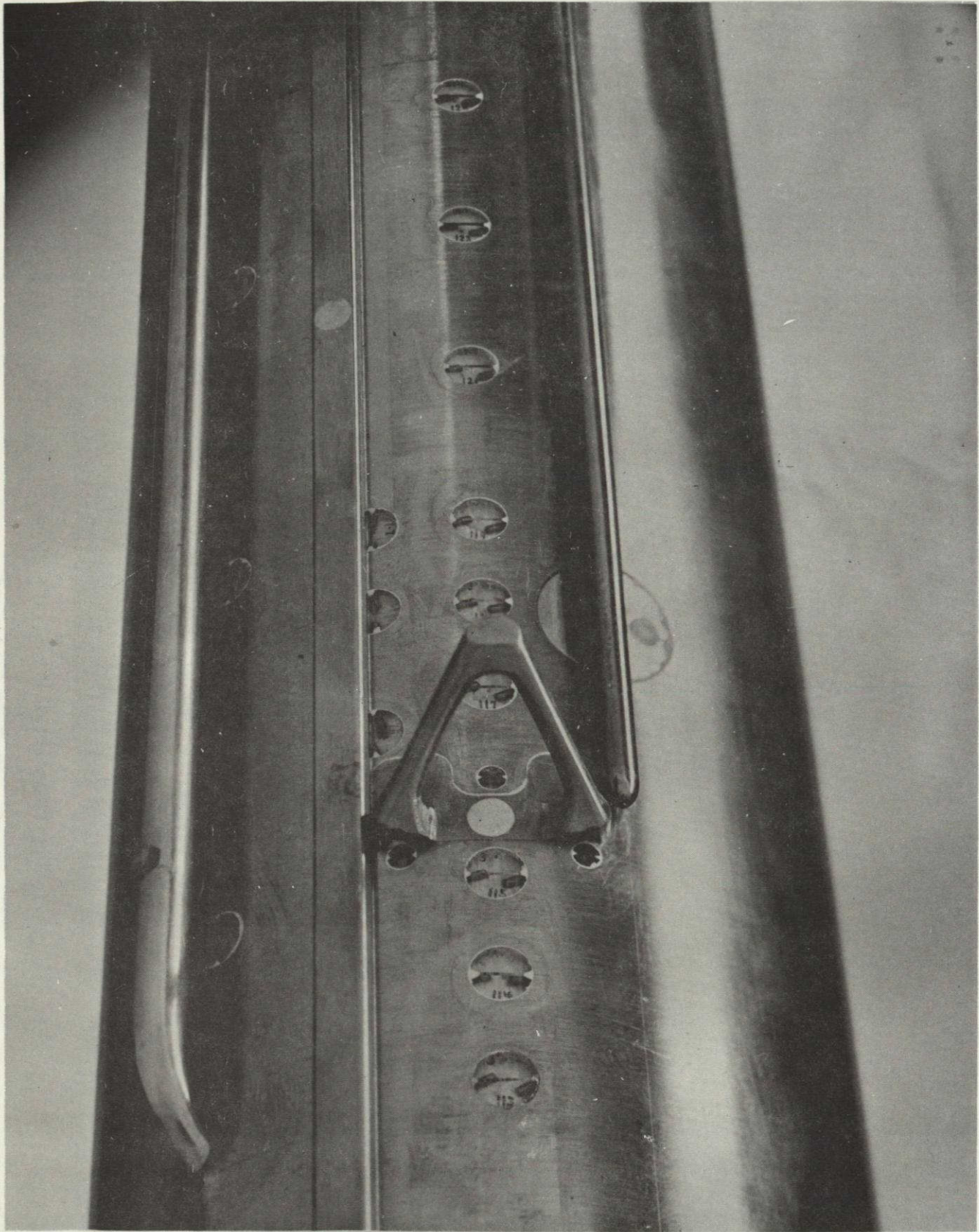
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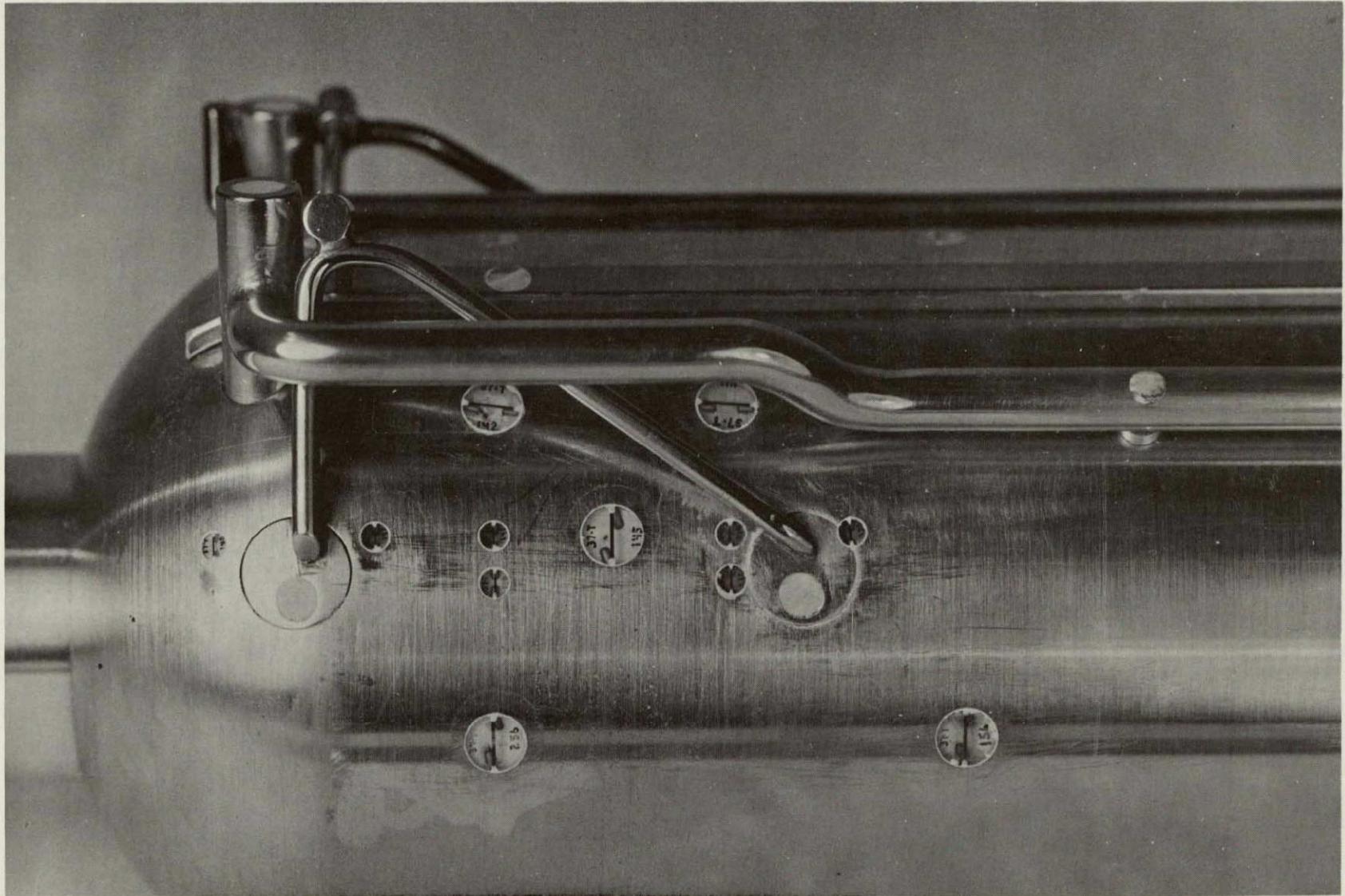


h. Instrumentation - Tank Nose

Figure 3. - Continued.

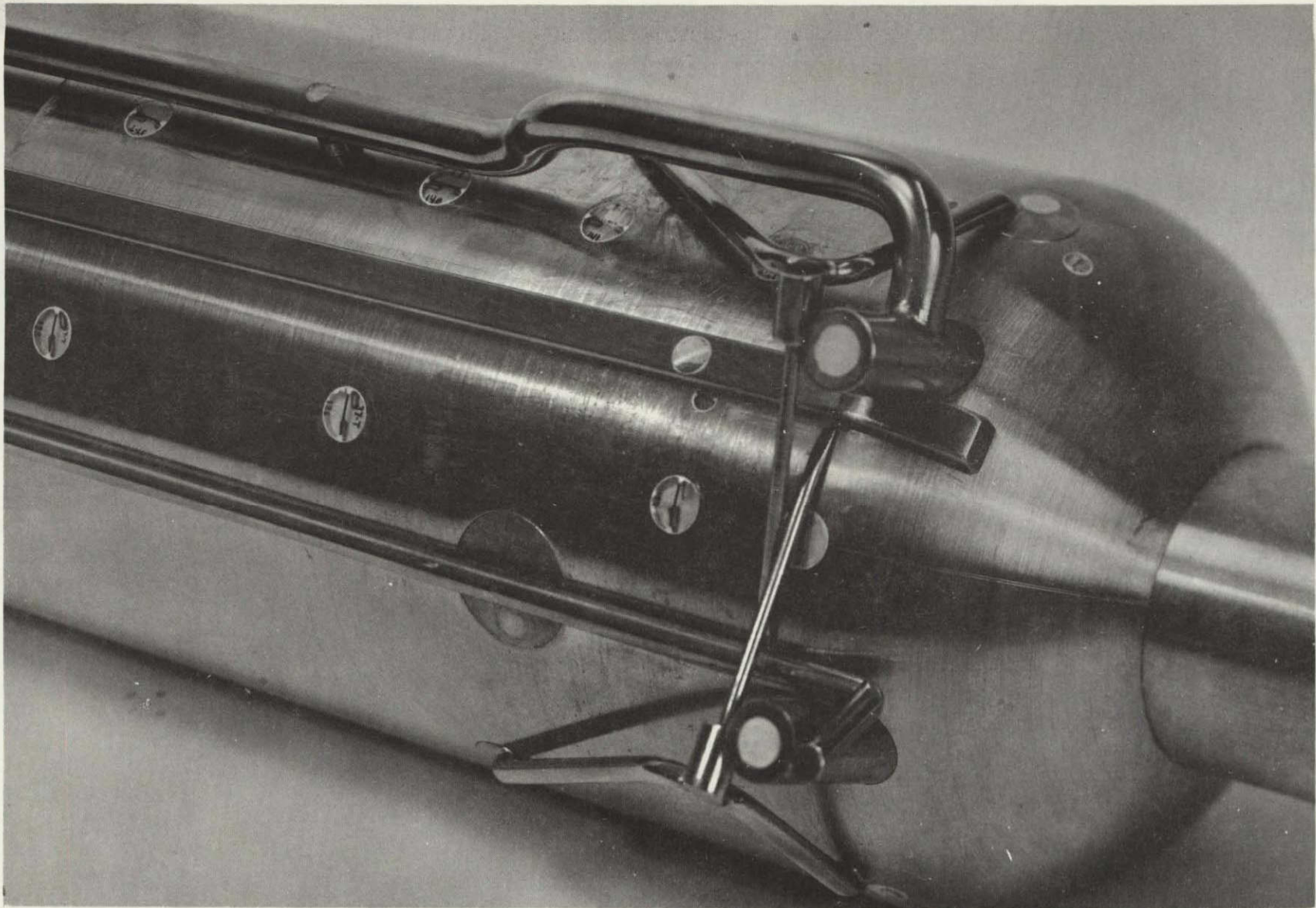


i. Instrumentation - Tank Forward Attachment Strut
Figure 3. - Continued.



j. Instrumentation - Tank Aft Attachment Struts - Side View

Figure 3. - Continued.

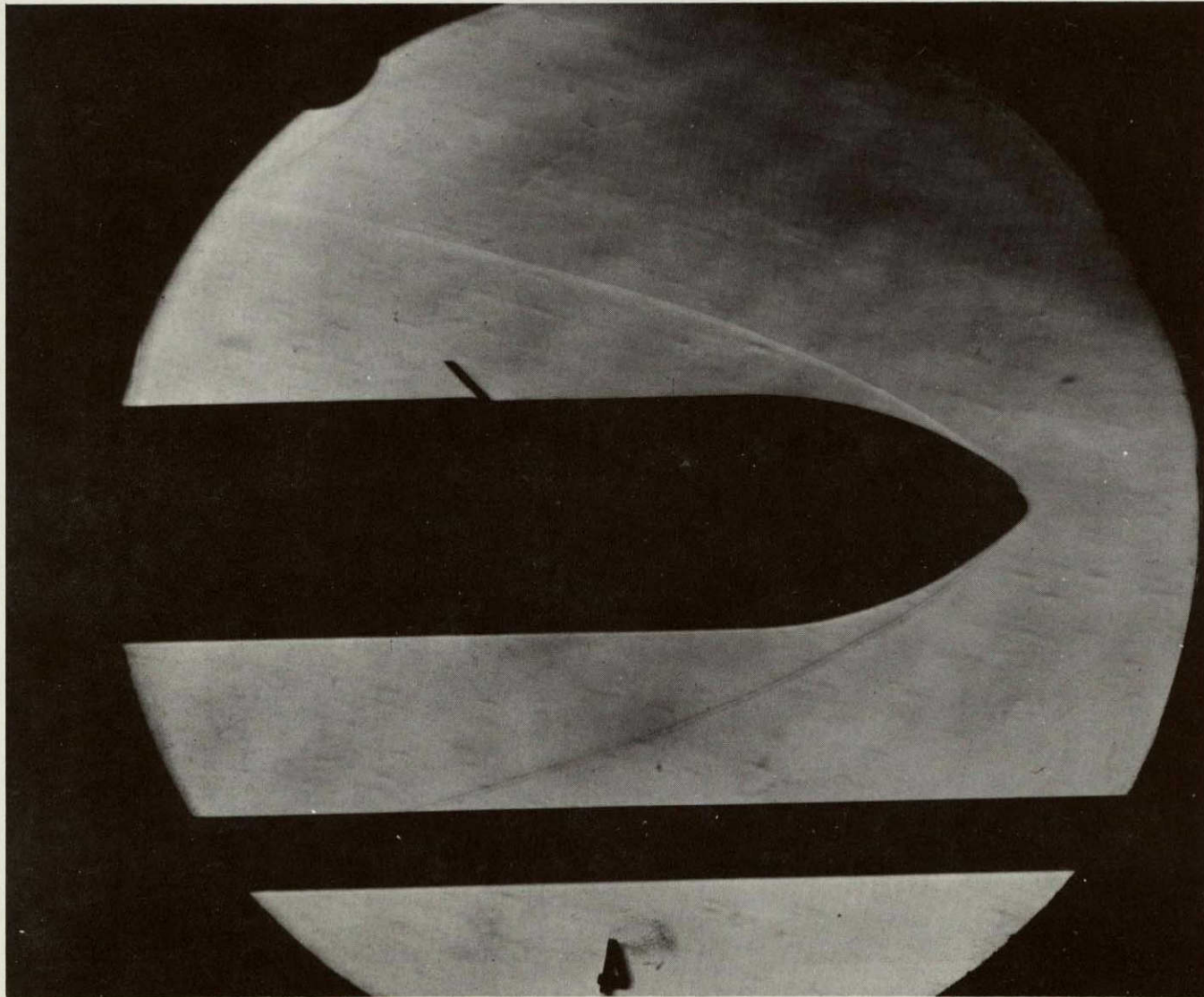


k. Instrumentation - Tank Aft Attachment Struts - Top View

Figure 3. - Continued.

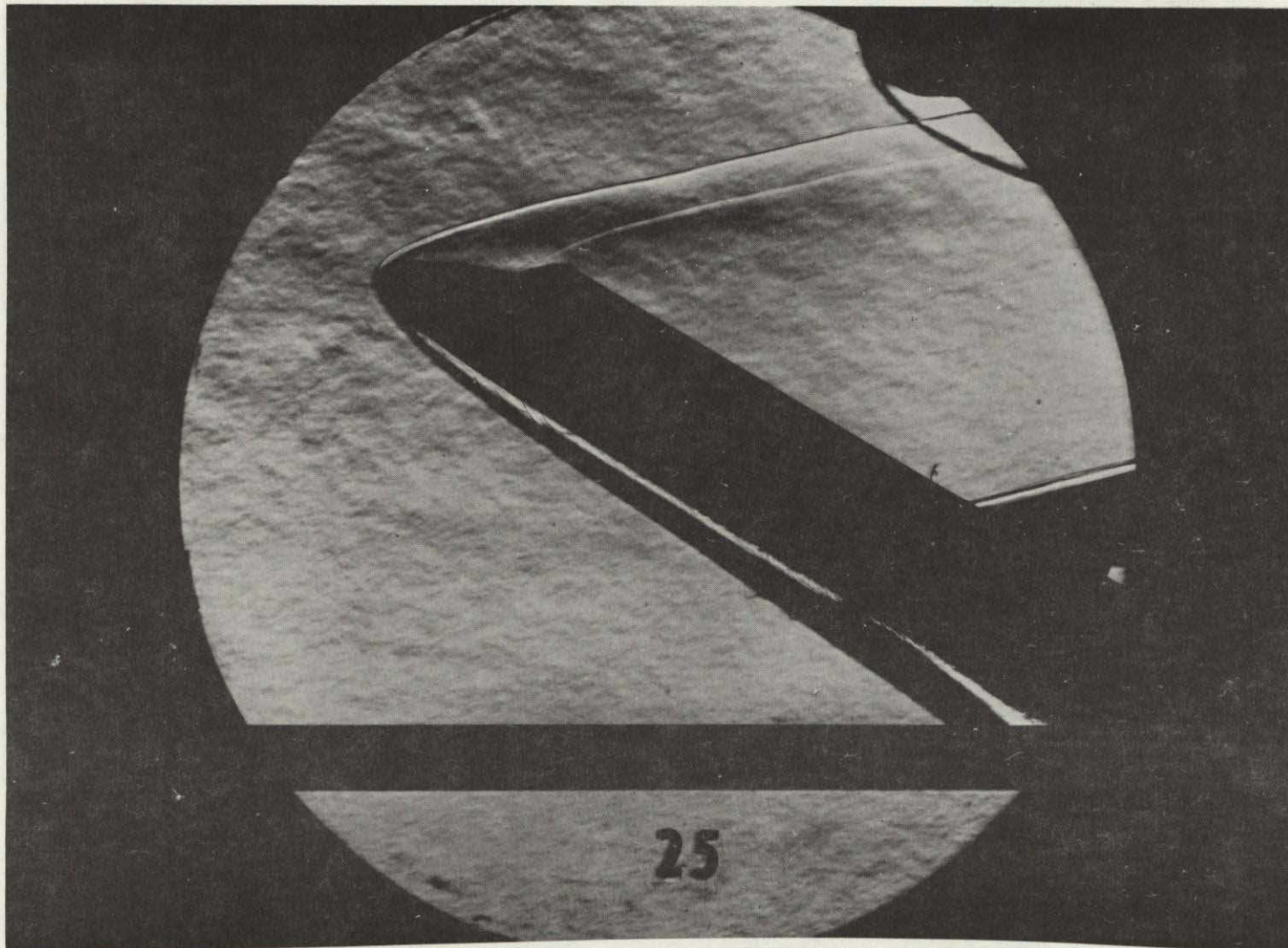
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1. Sample Schlieren, Tank Alone, Run 4, $\alpha = 0^\circ$, $M_\infty = 6.99$, $R_e/ft = 0.12 \times 10^6$

Figure 3. - Continued.

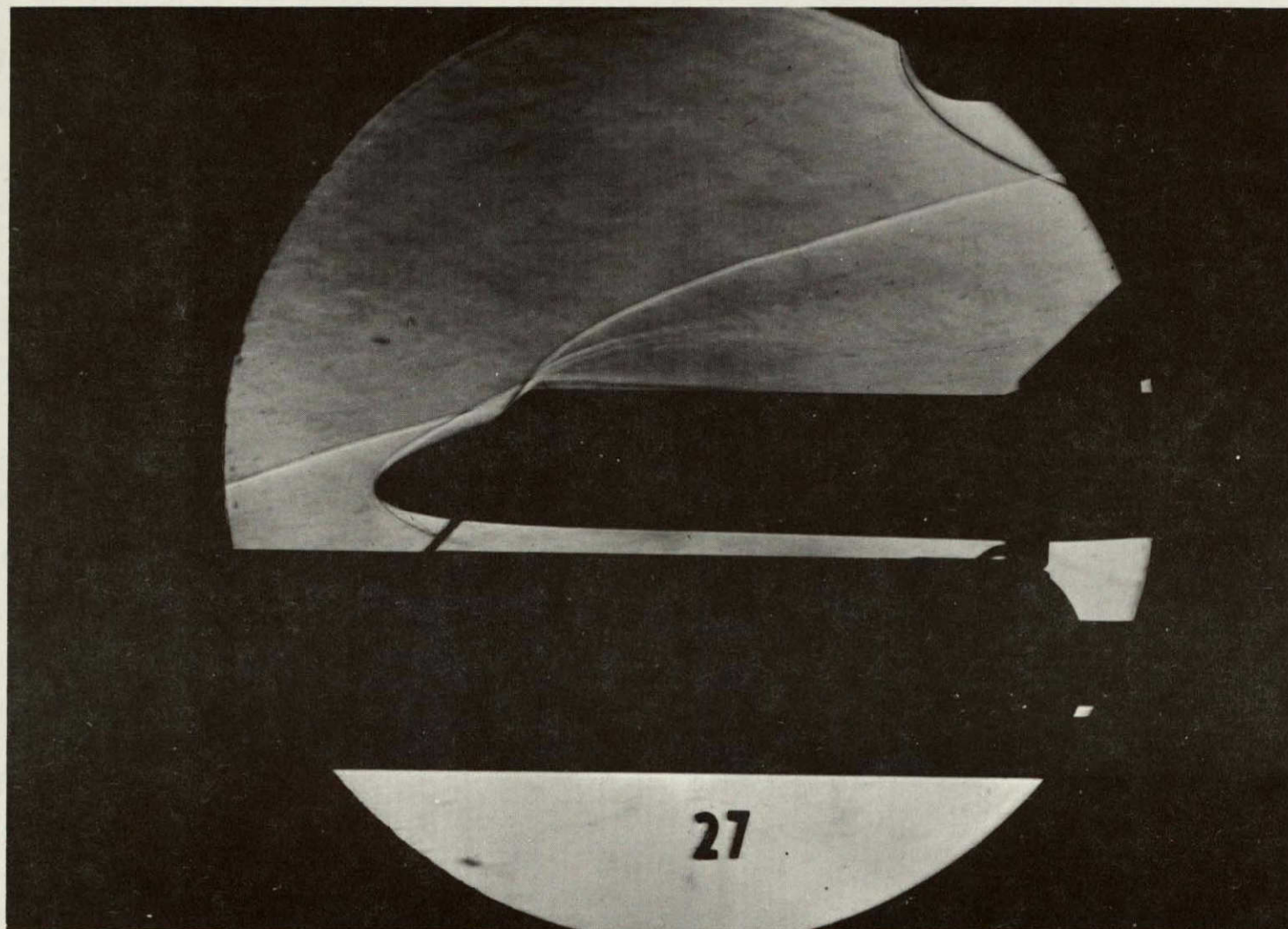


m. Sample Schlieren, Orbiter Alone, Run 25, $\alpha = 30^\circ$, $M_\infty = 7.92$, $R_e/ft = 7.55 \times 10^6$

Figure 3. - Continued.

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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
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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

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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/IH21 (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													

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		OH12/IH21 (CAL HST 173-100) 37 0 T FUSELAGE										(RUG805)			
MACH (2) =	7 616	HAW/HT(3) =	1.000	RE/FT =	1 2040	PO =	519.30	TO =	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	.6909	.3902	.1601		.0522		.1159	.1603			.0000	.0252		.0000	
30 000										.0618					
180 000				.1761		.1185			.0938				.0702		.0337
X/L	.1600	.1610	.1700	.1810	.2000	.2010	.2500	.3000	.3500	.3990	.4010	.4490	.5000	.5010	.5970
PHI															
000		.0381			.0687		.0405	.0280	.0180		.0191	.0210	.0220		.0235
25 000								.0091		.0240					
30 000						.0462									
180 000	.7967		.4017	.3965											.0055
X/L	.6000	.6990	.7000	.8000	.9000	1.0000									
PHI															
000			.0158	.0568	.0219	.0061									
25 000	.0139			.0521											
180 000		.0113													
MACH (3) =	18 330	HAW/HT(1) =	.850	RE/FT =	.12100-01	PO =	346 80	TO =	4436.0	H0 =	31 410				
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	.5436	.2261	.1046		.0392		.0264	.0289			.0110	.0094		.0000	
30 000										.0271					
180 000				.1384		.1172			.0933				.0715		.0830
X/L	.1600	.1610	.1700	.1810	.2000	.2010	.2500	.3000	.3500	.3990	.4010	.4490	.5000	.5010	.5970
PHI															
000		.0075			.0063		.0025	.0027	.0008		.0014	.0004	.0018		.0006
25 000								.0018		.0008					
30 000						.0083									
180 000	.1624		.2056	.2427											.0058
X/L	.6000	.6990	.7000	.8000	.9000	1.0000									
PHI															
000			.0011	.0008	.0008	.0014									
25 000	.0009			.0014											
180 000		.0077													

		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													

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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

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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					
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					
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													

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

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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															.0932
180 000				.1621		.1182			.0856				.0563		
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															.0829
180.000				.1442		.1051			.0761				.0501		
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													

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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)

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 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	.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 T0 = 1560.0 H0 = 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													

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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

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		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													

		OH12/1H21 (CAL HST 173-100) 37 0 FUSELAGE (RUGB111)													
MACH (4) =	10 520	HAW/HT(1) =	.850	RE/FT =	1 0520	PO =	2685.0	T0 =	3202.0	H0 =	21 360				
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	.8087	8352	.5307	.3237		2275	.1945			.1627	.1271		.0000	
	30 000									.2397					
	180 000			.0332		.0183			0097				0068		0074
X/L	1600	.1610	1700	.1810	.2000	2010	.2500	.3000	.3500	.3990	.4010	.4490	.5000	.5010	.5970
PHI	000	.1455			1557		.1249	1253	.1282		.1065	.1138	.0000		0940
	25 000							1123		1133					
	30 000					.1715									
	180 000	0303		0485	.0525										.0045
X/L	6000	6990	7000	.8000	9000	1.0000									
PHI	.000		.0915	0819	.0638	0412									
	25 000	0912		0789											
	180 000	.0054													
MACH (4) =	10 520	HAW/HT(2) =	900	RE/FT =	1.0520	PO =	2685 0	T0 =	3202 0	H0 =	21.360				
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	7550	7797	.4955		3022		2124	.1816			.1519	.1187		.0000
	30 000									2238					
	180 000			.0310		.0170			0091				0064		.0069
X/L	.1600	1610	.1700	.1810	.2000	.2010	.2500	.3000	.3500	.3990	.4010	.4490	.5000	.5010	5970
PHI	.000		1358		1454		1168	.1170	1197		.0994	1063	.0000		.0878
	25 000							1049		.1057					
	30 000					.1601									
	180 000	.0283		.0452	.0490										0042
X/L	6000	6990	.7000	8000	.9000	1 0000									
PHI	.000		.0854	.0765	.0595	.0385									
	25 000	0852		.0737											
	180 000	.0050													

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													

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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 .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								4880	4890							
30.000								.4303								
180.000	.1090	0773		.0649											0100	
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								3839								
180.000				.0256		.0106		.0128		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								4457		4466						
30.000								.3930								
180.000	0995	0706		0593											.0092	
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 (RUG8121)								
MACH (2) =	7.922	HAW/HT (3) =	1.000	RE/FT =	7.5700	PO =	2199.0	TO =	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	1.1421	1.4846			.4230			.2606	.2611			.2537	.2755	.3617		
30.000																	
180.000					.0218					.0109			.0176				
X/L	.1600	.1610	.1700	.1810	.2000	.2010	.2500	.3000	.3500	.3990	.4010	.4490	.5000	.5010	.5970		
PHI																	
.000			.3737			.3733			.2921	.3657	.3930			.0000	.3596	.3262	.4164
25.000																	
30.000																	
180.000	.0848			.0602	.0505					.3350					.0078		
X/L	6000	6990	.7000	.8000	.9000	1.0000											
PHI																	
.000			3353	3612	2680	2391											
25.000	3896																
180.000			.0078														
MACH (3) =	8.058	HAW/HT (1) =	850	RE/FT =	1.1090	PO =	894 80	TO =	2594.0	H0 =	16.850						
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	.7637	.0000	0000			.3902			.0000	.2191			0000	.1753	.2179		
30.000																	
180.000					.0229					.0115			.0076			.0067	.0129
X/L	.1600	.1610	.1700	.1810	.2000	.2010	.2500	.3000	.3500	.3990	.4010	.4490	.5000	.5010	.5970		
PHI																	
.000			.1661			.2042			.1527	.1733	.1241			.1595	.1267	.1160	.0993
25.000																	
30.000																	
180.000	.0664			.0811	.0864					.1870					.0014		
X/L	6000	.6990	.7000	.8000	9000	1.0000											
PHI																	
.000			.0813	.1079	0658	.0646											
25.000	.0947																
180.000			.0040														

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 (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	.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 (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	.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													

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		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
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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									
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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

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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

180.000 .2251 .1681 .1377 .0609 .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

30 000 .0221 .0116 .0085

180 000 1730 .3438 .4647 .0067

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

PHI

.000 .0011 .0014 .0025 .0027

25.000

180.000 .0009 .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

180 000 .2106 .1573 .1288 .0569 .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

30 000 .0207 .0108 .0080

180 000 .1619 .3216 .4347 .0063

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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 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

OH12/1H21 (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

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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

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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

.0084 .0201 .0207 .2328 .1237 .1093

.0021

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

PHI

.000

25.000

180.000

.0944 .0835 .0671 .0493 .0889 .0750

.0024

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

.6367 .7015 .4810 .3132 .2078 .1953 .1743 .1726 .0000

.0294 .0133 .0102 .0058 .0068

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

.1457 .1269 .1011 .1209 .1044 .0994 .1038 .0878 .0946

.2176 .1021

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

PHI

.000

25.000

180.000

.0883 .0780 .0627 .0461 .0831 .0701

.0023

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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

.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 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
 248 .0103
 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											.0044				.0039	
.247																
.248						.0097										
.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											.0039				.0035	
.247																
.248							.0086									
.396										.0192						
.399												.0140				
.412				.0556												
.498								.0000								
.499		.1025														
.599									.0310						.0218	
.738			.1412													
.750													.0354			

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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 .5560 .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		

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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

.0078

.0167

.0231

.0000

.0027

.0075

.0162

.0323

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

2Y/B

.248

.249

.399

.0009

.0012

.0032

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

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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								

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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	.0390	.0420	.0670	.1010	.1460	.1610	.1900	.2020	.2110	.3040	.3130	.3160	.4400	.4510
-----	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

2Y/B

.247											.0130				.0105
.248						.0221									
.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								

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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			

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

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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 HAW/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 HAW/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		

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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

.0000

399

.0199

412

.0494

498

.0400

499

.1922

.0455

599

.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												

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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 .0100
 248 .0164 0083
 .396 0000
 .399 0159
 .412 .0266
 498 .0217
 .499 .0371
 .599 .0735 .0405
 738 1391
 .750 .0509
 849 0000
 948 .0737
 1 000 0301

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

2Y/B

248 .0068
 .249 .0077
 399 .0041
 .400 .0152
 500 0190 .0158
 599 .0080
 601 .0355
 749 .0407
 .848 .0354
 950 .0538

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 .0094
 248 .0154 .0078
 .396 .0000
 399 0149
 .412 .0268
 498 .0203
 499 .0348
 599 .0689 .0380
 738 1304
 750 .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					

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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													
.599									.0414					.0288	
.738			.1191												
.750													.0347		
.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													
.599									.0368					.0256	
.738			.1059												
.750													.0309		

DATE 16 OCT 75

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

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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												
750													.0301		
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

.0251

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								.0178
.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) (18 JUN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN. ALPHA = 25.000 BETA = .000
 LREF = 1290 3000 IN YMRP = .0000 IN.
 BREF = 1290.3000 IN. ZMRP = .0000 IN.
 SCALE = .1000

MACH (1) = 6.973 HAW/HT(1) = .850 RE/FT = .12370 P0 = 373.20 T0 = 5587 0 H0 = 42 320

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
 248
 .396
 .399
 .412
 498
 499
 .599
 .738
 750
 .849
 948
 1 000

.0284

.4580

.4243

.2282

.2797

.2159

.0883

.0884

.0741

.0807

.1711

.1391

.1043

.0634

1229

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

2Y/B

248
 249
 .399
 .400
 500
 .599
 .601
 .748
 .848
 .950

.1177

.0713

.0994

.0757

.0723

.0439

.0390

.0469

.0869

.1327

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		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					

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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										.3964					
.399												.3358			
.412				.4627											
.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 = 10.130

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					.3430										
.948						2255									
1 000	.0274														
X/C	.4970	.5160	5360	5680	5950	6120	7110	.7160	8840	.9060	.9120				
2Y/B															
248									0511						
249					.0661										
399										.0417					
400				.0889											
.500	.1497					.1409									
.599											.0534				
601						.1053									
749								.0742							
848		.1624													
950			.1693												

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											.0855				
248							.1182								.0689
396										.0901					
399											.1026				
.412				.2707											
.498								.2136							
499		.5326													
599									.1432					.1255	
738			3660												
.750												.1016			
.849					.3193										
948						.2100									
1 000	.0255														
X/C	.4970	.5160	5360	.5680	.5950	.6120	.7110	.7160	8840	9060	.9120				
2Y/B															
248									0475						
249					.0616										
399										.0388					

DATE 18 OCT 75

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

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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 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 .0752
.248 .1038 .0605
.396 .0792
.399 .0901
412 .2379
.498 .1877
.499 .4680
599 .1258 .1103
.738 .3216 .0893
.750
.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

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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
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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 (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

.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				
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2Y/B

.248

.249

.399

.0373

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

0415

.0330

.0505

.0909

1125

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. (ROUGH10)

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							.0920								.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 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											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 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											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 .0000
 .948 .0000
 1.000 .0255

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

2Y/B

.248 .0418
 .249 .0000
 399 .0347
 400 .0622
 500 .0000 .0743
 .599 .0456
 .601 .0000
 .749 .0641
 .848 .0000
 .950 .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 .0000
 .248 .0000 .0591
 .396 .0000
 .399 .0000
 .412 .1670
 .498 .0868
 .499 .0000
 .599 .0000 .0000
 738 .2891 .0000
 750 .1020
 .849 .0000
 .948 .0000
 1 000 .0239

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

2Y/B

.248 .0392
 .249 .0000
 399 .0326

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											.0887				
.248						.1018									.0764
.396										.1136					
.399												.0843			
.412				.2221											
.498								.1902							
.499		4660													
.599									.1851					.1351	
.738			.3409												
.750												.1188			
.849					.2682										
.948						.2194									
1.000	.0269														

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

2Y/B

.248									.0436		
.249					.0714						
.399									.0382		
.400				.0795							
.500	.1195						.1043				
.599									.0555		
.601						.1027					
.749								.0832			
.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		

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										.0591					

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							.4081								.4239
.396									.7731						
.399												.5071			
.412				.7036											
.498								.0000							
.499		1.2218													
.599									.7505						.6309
.738			.9226												
.750													.4977		

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OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (RUGH11)

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 P0 = 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 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												.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 .0000
 .399 .1146
 412 .2829
 .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 .0000
 .399 .1069
 412 .2641
 .498 .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 .1709 .1301

.738 .3525 .1626

.750 .1626

.849 .0000

.948 .2326

1.000 .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
 .248
 .396
 .399
 .412
 .498
 .499
 .599
 .738
 .750
 .849
 948
 1 000

.0220

.3807

.3898

.2288

.1082

.1766

.1717

.1027

.0000

.0966

.1444

.1367

.2054

.0818

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

.1326

.0761

.0784

.1203

.1116

.1121

.0527

.0384

.0585

.1041

.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
 .248
 .396
 .399
 .412
 .498
 .499
 .599
 .738
 .750

.0220

.3376

.3456

.2029

.0960

.1566

.1523

.0911

.0000

.0856

.1281

.0726

.1213

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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					.0000										
.948						.1822									
1.000	.0195														
X/C	.4970	.5160	.5360	.5680	.5950	.6120	.7110	.7160	.8840	.9060	.9120				
2Y/B															
248									.0467						
.249					.0675										
399										.0341					
400				.0696											
500	.1176						.1066								
599											.0519				
601						.0990									
749								.0994							
848		.0923													
.950			.1171												

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											.1022				
248							.1129								.0897
396										.0000					
399												.1078			
.412				.2349											
498								.2052							
499		.5159													
599									.1850						.1588
738			.3856												
750															.1381
849					.0000										
948						.2529									
1 000	.0309														
X/C	.4970	.5160	.5360	.5680	.5950	.6120	.7110	.7160	.8840	.9060	.9120				
2Y/B															
248									.0564						
.249					.0804										
.399										.0426					

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								

OH12/IH21 (CAL HST 173-100) 37 0 WING L.S. (RUGH11)

MACH (6) = 16 070 HAW/HT(3) = 1 000 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 4274
 599
 738
 .750
 .849
 948
 1 000 0256

.0935
 .1946
 .1700
 .1533
 .0000
 .2095

0846
 0000
 0893
 .1316
 .1144

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

2Y/B

248
 249
 .399
 400
 500 1181
 .599
 601
 749
 848
 950

.0666
 .0740
 .0838
 .1280
 .0934

.0467
 .0353
 .0599

.0966
 .1222

MACH (7) = 19.150 HAW/HT(1) = .850 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
 248
 396
 399
 412
 498
 .499 .4323
 .599
 .738
 .750

.1688
 .1586
 .1466

.0833
 0000
 .0822
 .1252
 .1132

0.3

DATE 16 OCT 75

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

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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					

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

(ROUGH!!)

MACH (7) = 19.150 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			.0474							
	.500	.0997					.0656				
	.599										.0453
	.601					.0999					
	.749							.0000			
	.848	0866									
	.950		1082								

MACH (7) = 19.150 HAW/HT(3) = 1.000 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											.0695				
	.247														.0509
	.248						0735								
	.396									.0000					
	.399											.0686			
	.412			.1409											
	.498							1323							
	.499	3608													
	.599								.1225						1045
	.738		.2493												
	.750											.0944			
	.849				.0000										
	.948					1720									
	1.000	.0180													

X/C	.4970	.5160	.5360	.5680	.5950	.6120	.7110	.7160	.8840	.9060	.9120
2Y/B									.0406		
	.248										
	.249				.0638						
	.399									.0335	
	.400			.0421							
	.500	.0887					.0583				.0403
	.599										
	.601					.0889					
	.749							.0000			
	.848	0770									
	.950		0963								

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

.1714

.1908

.0000

.0000

.2823

.3031

5497

.2703

.1924

.0000

.1914

.9064

.2565

.0129

.0985

.1401

.0605

.1129

.1207

.0000

.0871

.1721

.0000

.1665

.2701

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 (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		

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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								.0447
.599															
.601						.1400									
.749								.1718							
.848		.1337													
.950			.2180												

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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 1354 .1095 .0946
 .396 0000
 .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
 .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 HO = 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					

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

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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												

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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		

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

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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															
.247											4654				
.248							.4447								4867
.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															
.248									.4204						
.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															
.247											3976				
.248							.3800								.4158
.396										.6425					
.399												.5112			
.412				.4941											
.498								.0000							
.499		.7510													
.599									.6562					.5875	
.738			.8555												
.750													.4452		

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

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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	.0670	.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	.5660	.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								.1639
.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	.5660	.5950	.6120	.7110	.7160	.8840	.9060	.9120				
2Y/B									.1355						
.248									.1355						
.249					.2307										
.399										.0872					

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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 WING L S. (RUGH13)

MACH (2) = 8.024 HAW/HT(3) = 1.000 RE/FT = 1 0600 P0 = 921.50 T0 = 2712.0 H0 = 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
 .248
 .396
 399
 412
 498
 499
 599
 .738
 .750
 .849
 948
 1.000

.0088

.2065
 .1832
 .4540
 2699
 .0000
 .3689
 .2540
 .0000
 .3431

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

.1970
 .1699
 3795

.1885
 .1504
 .2349
 .0000
 .2583
 .1107
 .0713
 .0965

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								

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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(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				.0800							
500	.1593					1137					
599											.0551
601						.1205					
749								0997			
848		1064									
950			1614								

MACH (2) = 15.720 HAW/HT(2) = .900 RE/FT = 23850 P0 = 2417.0 T0 = 3531.0 H0 = 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											.0769				
248							.1015								0611
396										.0000					
399												.0890			
412				.2381											
498								.1912							
499		5397													
599									1318					.1320	
.738			.3988												
750													.0947		
849					.0000										
948						2111									
1 000	0415														

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
248										
249						.0698				
.399										
.400				.0748						
500	.1489						.1063			
599										.0515
601						.1126				
.749								.0932		
848		.0995								
950			.1509							

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												

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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 .0701
 249 .0000
 .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		

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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													.1585		
849					.0000										
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					.3117										
.412								.2482							
.498		.6193													
.499									.2612						.1781
.599			.4702												
.738													.1877		
.750															
.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 HO = 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												

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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 .0370

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

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

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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

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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

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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	PO = 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	PO = 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	PO = 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	PO = 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									

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

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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

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

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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

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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

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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

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

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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

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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)

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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

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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 P0 = 2551.0 T0 = 3510.0 H0 = 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 P0 = 2551.0 T0 = 3510.0 H0 = 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 P0 = 2551.0 T0 = 3510.0 H0 = 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 PO = 360.50 TO = 4449.0 HO = 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 PO = 360.50 TO = 4449.0 HO = 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 .0188 .0114 .0349

MACH (1) = 18.360 HAW/HT (3) = 1.000 RE/FT = .12410-01 PO = 360.50 TO = 4449.0 HO = 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

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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
 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) 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 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

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 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

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 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

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 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

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 1550 2 3510 3 5150 4 4590 5 1640 6 5080 8 3220

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)

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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

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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

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

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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

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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	.8840	.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 .0796 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

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

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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

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

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

(RUGA11)

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 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 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 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 P0 = 2310 0 T0 = 1591 0 H0 = 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 P0 = 2310 0 T0 = 1591 0 H0 = 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 P0 = 2310 0 T0 = 1591.0 H0 = 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				

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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)

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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	P0 =	1621.0	T0 =	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	P0 =	536.10	T0 =	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	P0 =	536.10	T0 =	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	P0 =	536.10	T0 =	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	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 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

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		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 0333 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

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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)

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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

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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) = 650 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)

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

(RUGC04)

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 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

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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

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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

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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

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

(RUGC07)

MACH (2) = 7.614 HAW/HT(2) = .900 RE/FT = 1 2320 PO = 534.30 TO = 2015.0 HO = 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 PO = 534.30 TO = 2015 0 HO = 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

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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

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

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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 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	.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

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

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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

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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

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

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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

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

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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

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

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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		

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OH12/IH21 (CAL HST 173-100) 37 D 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 4068
 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

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

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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

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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

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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)

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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

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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

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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

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

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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

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

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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 H0 = 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 H0 = 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

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

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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

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

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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

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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.
 BRER = 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

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

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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	Y
-.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	Y
-.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

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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

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

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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		.2457
.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 HD = 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														

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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

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 .0058
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

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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														

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DATE 16 OCT 75

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

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

(RUGT01)

MACH (4) = 18 370 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								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 HAW/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

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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

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
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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
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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

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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

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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 HO = 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 .0059
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								.0094			.0063			.0025	
221.500							.0055			.0040			.0052		.0055
270.000										.0058					.0051
315.000															
X/L	8010	8250	8510	.8760	9000	.9010	9020	9260	.9360	9600					
PHI							.0016		.0009						
180.000	.0020														
199.000					.0012										
221.500	.0017		.0008				.0007								
241.000		.0029	.0011	.0036		.0009		.0010		.0010					
247.500			.0033		.0012										
270.000						.0049									

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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.
 BREF = 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									

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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

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

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

(RUOT14)

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 TO = 4449 0 HO = 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													

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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					1.7980
180.000				2.9960		2.5360			2.0210				1.5480		

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

X/L	.6000	.6990	.7000	.8000	.9000	1.0000
PHI						
.000			.0240	.0180	.0173	.0310
25.000	.0195			.0313		
180.000		1663				

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													

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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

(QUGB10) (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

12.1800

8.1790

8.9230

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

5.7020

6.9820

.4105

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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/IH21 (CAL HST 173-100) 37 0 FUSELAGE (QUGB111)
 MACH (6) = 16.070 ALPHA (1) = 30 100 RE/FT = 45820-01 P0 = 560.60 T0 = 3667.0 H0 = 25 040

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	19 7000	20.9700	13 4400		7.8640		6.1150	5 4260			4 5440	3.9990		.0000
	30.000									5.6710					
	180 000			1 2070		.5911				4962			3418		3758

X/L	1600	.1610	.1700	.1810	2000	.2010	.2500	.3000	.3500	.3990	.4010	.4490	.5000	5010	5970
PHI	000		3.7530		3 4190		2 8920	2 7330	2.6000			2 5880	2.6550	2.3310	2.1580
	25 000							2.6850		2 6750					
	30 000						3.5540								
	180.000	.4158		5012	.4871										0633

X/L	.6000	.6990	.7000	8000	.9000	1.0000
PHI	000		2.0100	1 9150	1.6380	1.1390
	25 000	2 2850		1.8540		
	180 000	.1499				

MACH (7) = 19.150 ALPHA (1) = 30 020 RE/FT = .43340-01 P0 = 1643.0 T0 = 4746 0 H0 = 33.960

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	26 8700	29.6100	36 1000		10 8000		6 7830	7.1550			6.0040	5.3370		0000
	30.000									7 9950					
	180 000			1.3460		.6916				.6014			.4375		.4683

X/L	.1600	1610	.1700	.1810	.2000	2010	.2500	.3000	.3500	.3990	4010	.4490	.5000	.5010	.5970
PHI	000		4.8030		4.5490		3.9080	3.9040	3.6190		3.2240	3 9540	3 2690		2.9180
	25 000							3.7790		3 8330					
	30 000					4.8150									
	180.000	.7148		.6581	.7362										.0883

X/L	6000	.6990	7000	.8000	.9000	1.0000
PHI	000		3 3400	2.6710	2 0270	1.5410
	25 000	3 1910		2 4950		
	180.000	.1123				

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 CDOOT

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 CDOOT

X/L 0000 0070 .0190 .0300 .0420 .0600 0620 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

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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

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

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

(QUGB13) (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 PQ = 2300.0 T0 = 1596.0 H0 = 10.120

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 79.9600 137.8000 131.9000 63.5200 44.6800 52.4400 47.0000 47.2800 52.3200

30.000

180.000

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

PHI

.000 55.8200 49.5700 42.7500 51.0200 57.9900 50.3800 48.5200 49.8500 50.0300

25.000

30.000

180.000 13.5700 12.2000 12.2800 49.0100 58.3100 57.7100 6976

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

PHI

.000 44.7300 48.6800 43.4300 40.7000

25.000

180.000

MACH (2) = 8.024 ALPHA (1) = 40.000 RE/FT = 1.0500 PQ = 921.50 T0 = 2712.0 H0 = 17.700

SECTION (1) FUSELAGE

DEPENDENT VARIABLE QDOT

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

PHI

.0000 211.1000 108.8000 67.8600 61.4600 44.1000 41.2300 23.1900 33.3500

30.000

180.000 2.1190 .9914 1.6960 59.1200 1.9450 2.9290

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

PHI

.000 28.8300 40.2100 39.4300 36.8500 31.8500 .0000 36.7500 26.4900 26.7700

25.000

30.000

180.000 11.1800 12.9100 12.6300 35.7200 43.5700 46.1300 .3737

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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)

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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		6.669		5.127	.4641	.2637		1885	2099	.0833		0263
25.000								.3369		.2469					
30 000						6.431									
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													

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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.
 BRREF = 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

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

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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

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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				

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

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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/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 ALPHA = 000 BETA = 000
 LREF = 1290 3000 IN YMRP = 0000 IN
 BREF = 1290 3000 IN ZMRP = 0000 IN
 SCALE = 1000

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

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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

6 4490
 .0000
 3 1230
 1 7760
 2 9580
 8.8480

.6610
 4970
 1 0990
 4554
 .0000
 1 7760
 2 9580

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 0030
 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

.1497
 .3018
 .2088
 .3703

0556
 .0000
 .1316
 .2333
 .4617

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

(OUGH05)

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

.0664

.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.

(QUGH05)

MACH (4) = 19 200 ALPHA (1) = 083

SECTION (1) WING L S

DEPENDENT VARIABLE QDOT

X/C	.4970	.5160	.5360	5680	5950	6120	7110	7160	8840	9060	9120
2Y/B											
400				.2789							
500	5997						3981				
599											.2630
601						.5727					
749								.7842			
848		1.6310									
950				2 3000							

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
 248 5043 1928 0519
 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 .2815
 599 .6622
 601 .9136
 .749 1 6440
 848 2.8710
 .950

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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 14 1000
 599
 .738 9 6160
 .750
 849
 948
 1 000 6.6730
 .247 1.3370
 248 1 8660 .9001
 396 1.6730
 .399 7750
 .412 8.7970
 .498 3 3230
 499 3 6410 2.4120
 599
 .738 9 6160
 .750 4.2810
 849 9 9900
 948 7 6140
 1 000 6.6730

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

2Y/B

248
 249
 399
 400
 .500 2 3250
 599
 601
 749
 848
 .950
 248 6457
 249 9114
 399 .5660
 400 1 2620
 .500 1.5340
 599 8705
 601 1 4090
 749 1 6800
 848 2.9070
 .950 3.2380

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 5.9600
 .599
 .738 5 1610
 .750
 .247 .3906
 248 .3710 .3075
 .396 .0000
 .399 .6174
 412 1.5290
 498 1.2390
 499 5.9600
 .599 1 4080 .9014
 .738 5 1610
 .750 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

0000

.948

2 3320

000

1.7280

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

2Y/B

.248

.2235

.249

.3015

.399

.2066

400

.4857

500

.7476

6230

.599

.3902

601

8744

749

1 3370

848

1 0740

.950

.8937

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

.2178

.248

.3552

1795

.396

.0000

.399

.3447

412

.6207

498

.4706

499

8054

1.5930

.8786

599

3.0170

738

1.1040

750

849

0000

948

1.5990

1 000

.6534

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

2Y/B

.248

1483

.249

.1666

.399

.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							
599												.4566			
601						1.0410									
749									.8374						
848		1 3300													
950			1.4440												

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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										23 8700					
399												21 7700			
.412				61.5900											
.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								

DATE 16 OCT 75

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

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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

.0000: 0380 .0420 .0670 .1010 .1460 .1610 .1900 .2020 .2110 .3040 .3130 .3160 .4400 .4510
27.4400
29.8200
30.3700
45.7000
38.5200
55.3600
.0000
108.0000
.0000
51.5100
50.3800
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
13.6100
35.9200
28.3400
70.6700
19.0000
18.6500
48.5600
13.4800

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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		

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

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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

.0000

.948

.0000

1.000 1.1320

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

2Y/B

.248

1.8610

.249

.0000

.399

1.5440

.400

2.7650

.500

.0000

3.3050

.599

2.0270

.601

.0000

.749

2.8490

.848

.0000

.950

4.8110

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

ZY/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

ZY/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			

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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															
247											2 8780				
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															
247											3 8140				
.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 0100 0460 0610 .0900 .2020 .2110 .3040 .3130 .3160 .4400 .4510

2Y/B

247
 248
 .396
 399
 412
 498
 .499
 599
 738
 750
 849
 948
 1 000

3 3660

73.8500

143.8000

.0000

237.1000

67.0900

49.9000

79.2900

70.7000

44.8300

.0000

0000

50.3400

50.0600

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

29.5300

36.6600

43.5600

70.6600

31.5700

45.0200

25.7700

15.8300

22.7900

0000

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 74.4300 64.3000
.599
.738 91.6900 55.6700
750
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 30.0400 24.7200
599 56.5000
.738 21.2900
750

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/IH21 (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 3.9260 3.3700 2.7350
 .396 .0000
 399 3.5070
 412 6.2420
 .498 6.0450
 .499 14.2700
 .599 6.1340 4.6770
 738 11.4200
 750 .0000
 849 .0000
 948 7.3180
 1 000 .6348

X/C 4970 .5160 .5360 .5680 .5950 .6120 .7110 .7160 .8840 .9060 .9120
 2Y/B
 248 1.9620
 249 3.1240
 399 1.6690
 .400 2.9100
 500 3.9390 3.3330
 .599 2.1470
 .601 4.4670
 .749 .0000
 .848 3.8280
 950 4.1530

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 4.4150 3.9000
 248 5.3610
 396 .0000
 399 4.9370
 .412 9.3330
 498 6.0670
 499 19.6400
 599 9.0380 6.8410
 738 16.1500
 750 6.5390

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

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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												

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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				12 2400
.248							17.7200					.0000			
.396													14.5400		
.399															
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								

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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
-----	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	------	------	------

ZY/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
-----	------	-------	-------	-------	------	-------	------	-------	-------	-------	-------

ZY/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								

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

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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

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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

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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 = 26.590

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 .4185

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

DATE 16 OCT 75

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

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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

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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

(QUGA04) (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

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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

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

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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

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

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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) (19 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

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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

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

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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.

(00GA12)

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

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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

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

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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 6.3220

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

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

(OUGA16) (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

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

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

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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

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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 PO = 384.80 TO = 5526.0 HO = 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 PO = 534.30 TO = 2015.0 HO = 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

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

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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

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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

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

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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

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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

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

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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

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

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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

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

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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

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

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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

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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 TO = 2594.0 HO = 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 TO = 2727.0 HO = 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

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

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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	

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

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\ 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/IH21 (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

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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

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

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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) (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) = 6.993 ALPHA (1) = .050 RE/FT = 12060 P0 = 363.80 T0 = 5578.0 H0 = 42.140

SECTION (1) TANK

DEPENDENT VARIABLE QDOT

X/L	0000	0040	0100	.0400	.0410	0800	.1500	.2000	.2010	.2110	2510	.3440	.3510	.3760	.4000
-----	------	------	------	-------	-------	------	-------	-------	-------	-------	------	-------	-------	-------	-------

PHI	000 238 3000			39 8500		21 0000	0000								1.5110
180.000	238 3000				53 2100	29 3700	9 4960		3 9040	3 2170	2.1860		1.4450	1.2400	
199 000	238.3000		138 2000												
220 000		55 5300													2.1000
221 500	238 3000											2 2840			
225.000															
241 000	238.3000														
247.500	238 3000							3 4600							1 6480
270.000	238.3000														
315 000	238 3000														

X/L	.4010	.4070	.4260	.4410	.4510	.4760	5000	5010	5510	.6000	.6010	.6510	.7000	.7010	8000
-----	-------	-------	-------	-------	-------	-------	------	------	------	-------	-------	-------	-------	-------	------

PHI	.000									1 2990					1.0750
167 000		2.1820													
180 000	.7156		.6157		8.7680	10 0800		4.8670	6.1620		4.9720	4.5790		3.5780	
193 000		3 5310													
199 000				.6731		5261	.5376								
221 500								1.7470			.8055			.4721	
270.000							1.4160			1.4170			1.5530		1.5500
315 000										1.6000					1 3150

X/L	.8010	.8250	.8510	.8760	.9000	.9010	.9020	.9260	.9360	.9600
-----	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI										
180 000	3.0580						1.4130		.5145	
199 000				.1853						
221 500	.0386		.3498				0265			
241 000		.4107	.2837	.0246		7703		2.0760		1.5930
247.500			.3961		1.0820					
270.000						1 2850				

OH12/IH21 (CAL HST 173-100) 37 T TANK (OUGT01)

MACH (2) = 7.618 ALPHA (1) = .050 RE/FT = 1.2330 P0 = 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 P0 = 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

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

(QUOT02) (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) = 19.170 ALPHA (1) = -5.050 RE/FT = .43500-01 P0 = 1640.0 T0 = 4730.0 H0 = 33 830

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 35 8100 5.9890 2.7800 1.1450 1937
 180 000 35 8100 7 3840 5 6900 2 2430 1 0700 8681 6799 .4844 .4402
 199 000 35 8100 2 0200
 220 000 20 6400
 221.500 35 8100 .1122
 225 000 .4918
 241.000 35 8100
 247 500 35 8100
 270 000 35 8100 8273 .3319
 315 000 35 8100

X/L 4010 .4070 .4260 .4410 .4510 .4760 .5000 .5010 .5510 .6000 .6010 .6510 .7000 .7010 .8000

PHI
 000 .1812 .1335
 167 000 2819
 180 000 4572 .4739 .4910 .4592 .2932 .2874 .3045 .2945 .2297
 193 000 4504
 199.000 1406 .1215 .1428
 221 500 .0825 .1149 .0809
 270 000 .2504 2578 .2475 .2191
 315 000 1 8070 .1010

X/L 8010 .8250 8510 .8760 .9000 .9010 .9020 .9260 .9360 .9600

PHI
 180.000 .2257 2331 .0367
 199 000 .1665
 221 500 .0904 0828 .0817
 241.000 0000 .0388 2540 .2515 .1276 0969
 247 500 .2135 1109
 270 000 .2379

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

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

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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

