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DATA REPORT FOR A TEST PROGRAM TO STUDY TRANSONIC FLOW FIELDS A--ETC(U)
JUL 77 S C PERKINS, S S STAHARA, M J HEMSCH F44620-75-C-0047

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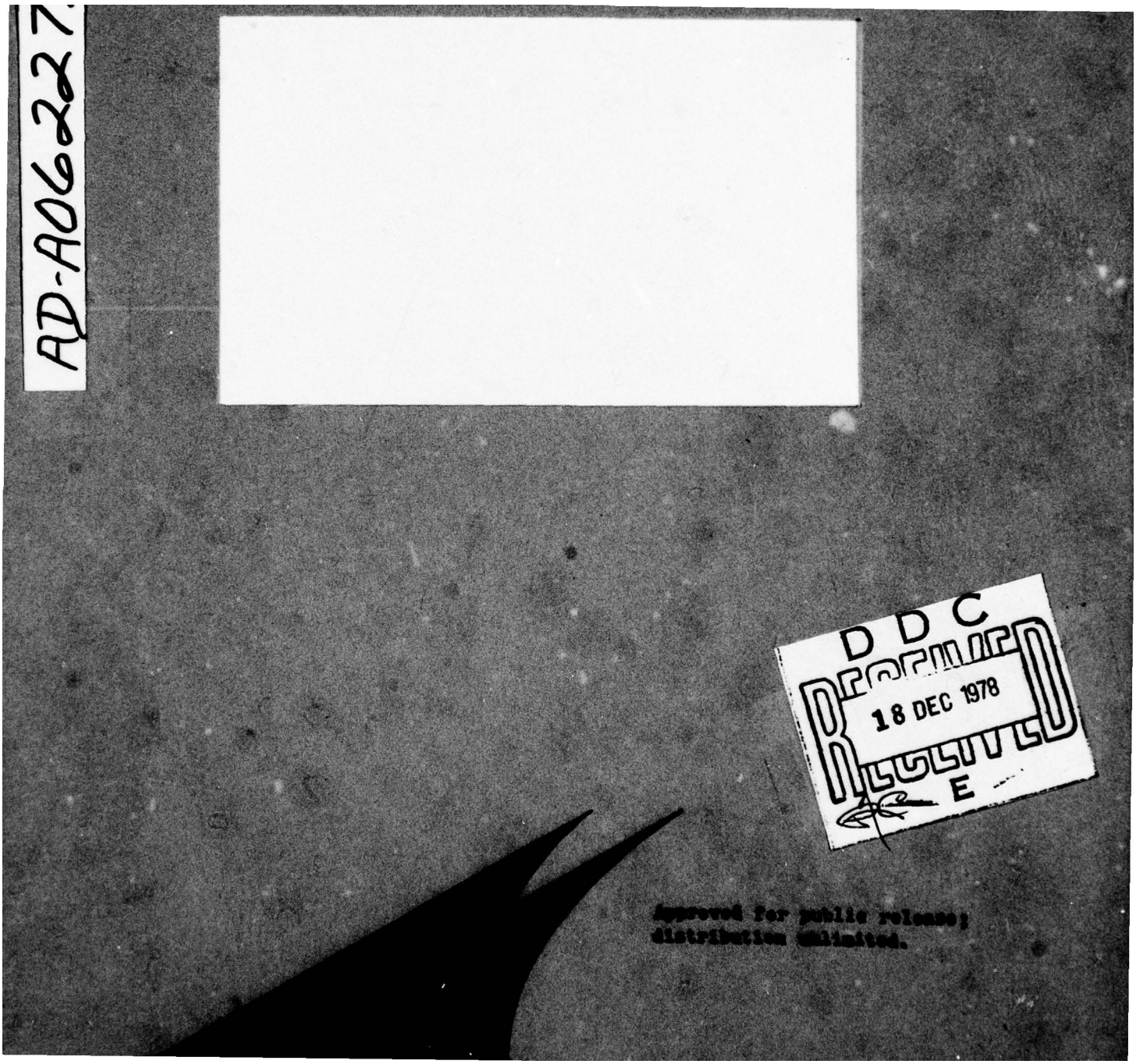

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

A test program was conducted to obtain measurements of flow velocities and static pressures in the vicinity of wing-body-store model (representative of a fighter-type aircraft) as well as surface pressures, forces, and moments on the model. Flow velocities and static pressures were also measured near the tunnel walls to provide outer flow field information. This report presents the data obtained during the test program conducted in the 4T and 16T Wind Tunnels at Arnold Engineering Development Center. The Flow-field data were obtained at Mach numbers 0.925, 0.975, and 1.025 and constitute the major part of the data. (cont)

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Volume I is a summary report which gives detailed information on the test program and presents uncertainties associated with the various types of data taken in the 4T Wind Tunnel. The volume also presents tunnel-empty and Mach-number surveys, as well as tabulated force and moment and pressure data for the Mach number range 0.80 to 1.15 and angles of attack -2^{o}, -5^{o}, 0^{o}, 2^{o}, and 5^{o}. Volumes II, III, and IV present the tabulated flowfield data for the 4-percent thick wing model at Mach numbers 0.925, 0.975 and 1.025, respectively. Volume V presents the tabulated flow-field data for the 6-percent thick wing model, and Volume VI presents data obtained for the 4-percent thick wing model in the 16T Wind Tunnel.

COPY NO. 3

DATA REPORT FOR A TEST PROGRAM TO STUDY TRANSONIC FLOW FIELDS ABOUT AIRCRAFT WITH APPLICATION TO EXTERNAL STORES

VOLUME VI.- 16T WIND TUNNEL TESTS

By Stanley C. Perkins, Jr.,
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TABLE OF CONTENTS

NOMENCLATURE

This section provides a list of symbols which identify various aerodynamic parameters, axis designations, subscripts, and tabulated data nomenclature.

SYMBOLS

A_W	planform area of both wings (does not include body), 0.4444 ft^2
AAL	local upwash angle, deg; $\tan^{-1}\left(\frac{WL/VM}{UL/VM}\right)$
b	wing span, 16 in.
$\bar{c}$	reference length for pitching moment, 5.3444 in.
C_A	axial force coefficient, axial force/$q_\infty A_W$
C_{LL}	rolling-moment coefficient, rolling moment/$q_\infty A_W b$
C_{LM}	pitching-moment coefficient, pitching moment/$q_\infty A_W \bar{c}$
C_{LN}	yawing-moment coefficient, yawing moment/$q_\infty A_W b$
C_N	normal-force coefficient, normal force/$q_\infty A_W$
C_p	local pressure coefficient, $(p_\ell - p)/q_\infty$
C_y	side-force coefficient, side force/$q_\infty A_W$
CPS	model surface pressure coefficient, (PS-P)/Q
M	Mach number
p,P	free-stream static pressure, psfa
PS	model local surface pressure, psfa
q	dynamic pressure, $\frac{1}{2}\rho V^2$, psfa
r	radius of the body, in.
Re/ft	free-stream Reynolds number per foot, ft^{-1}
SWL	local sidewash angle, deg; $\tan^{-1}\left(\frac{VL/VM}{UL/VM}\right)$
UL,VL,WL	local velocity components, positive along the positive X, Y, and Z directions; respectively, ft/sec
v	total velocity, ft/sec
VM	free-stream velocity, ft/sec

X,Y,Z	body-fixed Cartesian coordinates with origin coincident with the aircraft model nose at all angles of attack, see figure 5(a)
XT,YT,ZT	tunnel-fixed Cartesian coordinates with origin coincident with the aircraft model nose at zero angle of attack, see figure 5(b)
α	angle of attack of the model, deg; angle between body axis and tunnel axis, as defined in figure 5
α_{probe}	angle of attack of probe, angle between probe axis and tunnel axis
θ	azimuthal angle in the Y-Z plane, deg; measured from the positive Y axis as shown in figure 5
ρ	mass density, slugs/ft^3

Subscripts

∞	free-stream conditions
ℓ	local conditions

Force and Moment and Pressure Data Tabulations

A_b	area of model base, .038785 ft^2
A_W	planform area of both wings (does not include body), .4444 ft^2
ALFWM	model angle of attack, positive nose up as seen by the pilot (nose down in the tunnel), deg.
b	wing span, 16 in.
$\bar{c}$	reference length for pitching moment, 5.3444 in.
CA	axial-force coefficient measured by balance, in body coordinates, axial force/QA_W
CAB	base axial-force coefficient in body coordinates, $(P - \bar{P}_b)A_b/QA_W$
CAF	axial-force coefficient corrected for base effects, in body coordinates, CA-CAB

CLL	rolling-moment coefficient in unrolled body coordinates, rolling moment/$QA_W b$
CLM	pitching-moment coefficient in unrolled body coordinates, pitching moment/$QA_W \bar{c}$
CLN	yawing-moment coefficient in unrolled body coordinates, yawing moment/$QA_W b$
CN	normal-force coefficient in unrolled body coordinates, normal force/QA_W
CPS N (N = 1,25)	model surface-pressure coefficients at orifice number N, (PS - P)/Q
CY	side-force coefficient in unrolled body coordinates, side force/QA_W
M	free-stream Mach number
P	free-stream static pressure, psfa
$\bar{P}_b$	average base pressure, psfa
PART	test part number
PS	model local surface pressure, psfa
PT	free-stream total pressure, psfa
Q	free-stream dynamic pressure, psfa
REX10^{-6}	free-stream unit Reynolds number, 1/ft
RUN	run number
SURVEY	survey number
TT	stagnation chamber total temperature, ^{o}F
VM	free-stream velocity, ft/sec
WING	wing type

Tunnel Empty Survey Data Tabulations

AATL	local upwash angle in tunnel-axis coordinates, deg; $\tan^{-1}$ (WT/VT)
ALFBM	model angle of attack, deg
CPL	local pressure coefficient, (PS - P)/Q

GP	grid point number
M	free-stream Mach number
ML	local Mach number
P	tunnel free-stream static pressure, psfa
PART	test part number
POINT	part point number
PS	local static pressure, psfa
PT	stagnation tunnel chamber pressure, primary, psfa
PTL/PT	ratio of probe stagnation pressure to tunnel chamber stagnation pressure
Q	free-stream dynamic pressure, psfa
REX10^{-6}	free-stream unit Reynolds number, 1/ft
RUN	run number
SURVEY	survey number
SWTL	local sidewash angle in tunnel-axis coordinates, deg; $\tan^{-1}$ (VT/UT)
TEST	test number
TT	stagnation chamber total temperature, primary, ^{o}F
UT/VM	ratio of velocity component in the tunnel-axis X direction to tunnel free-stream velocity
VM	tunnel free-stream velocity, ft/sec
VT/VM	ratio of velocity component in the tunnel-axis Y direction to tunnel free-stream velocity
VTL/VM	ratio of local velocity vector in tunnel-axis system to free-stream velocity vector
WING	wing type
WT/VM	ratio of velocity component in the tunnel-axis Z direction to tunnel free-stream velocity
XT	location of the probe in the tunnel-axis X direction
YT	location of the probe in the tunnel-axis Y direction
ZT	location of the probe in the tunnel-axis Z direction

Flow-Field Survey Data Tabulations

AAL	local upwash angle in body-axis coordinates, deg; $\tan^{-1}$ (WL/UL)

NOMENCLATURE (Continued)

AATL	local upwash angle in tunnel-axis coordinates, deg; $\tan^{-1}$ (WT/UT)
ALFBM	model angle of attack, deg
CPL	local pressure coefficient, (PS - P)/Q
GP	grid point number
M	free-stream Mach number
ML	local Mach number
P	tunnel free-stream static pressure, psfa
PART	test part number
POINT	part point number
PS	local static pressure, psfa
PT	stagnation tunnel chamber pressure, primary, psfa
PTL/PT	ratio of probe stagnation pressure to tunnel chamber stagnation pressure
Q	free-stream dynamic pressure, psfa
REX10^{-6}	free-stream unit Reynolds number, 1/ft
RUN	run number
SURVEY	survey number
SWL	local sidewash angle in body-axis coordinates, deg; $\tan^{-1}$ (VL/UL)
SWTL	local sidewash angle in tunnel-axis coordinates, deg; $\tan^{-1}$ (VT/UT)
TEST	test number
TT	stagnation chamber total temperature, primary ^{o}F
UL/VM	ratio of probe X axis local velocity component to tunnel free-stream velocity
UT/VM	ratio of velocity component in the tunnel-axis X direction to tunnel free-stream velocity
VM	tunnel free-stream velocity, ft/sec
VML/VM	ratio of local velocity vector in the body-axis system to free-stream velocity vector
VL/VM	ratio of probe Y axis local velocity component to tunnel free-stream velocity

NOMENCLATURE (Concluded)

VT/VM	ratio of velocity component in the tunnel-axis Y direction to tunnel free-stream velocity
VTL/VM	ratio of local velocity vector in the tunnel-axis system to free-stream velocity vector
WING	wing type
WL/VM	ratio of velocity component in the tunnel-axis Z direction to tunnel free-stream velocity
WT/VM	ratio of probe Z axis local velocity component to tunnel free-stream velocity
X	location of the probe in the body-axis X direction
XT	location of the probe in the tunnel-axis X direction
Y	location of the probe in the body-axis Y direction
YT	location of the probe in the tunnel-axis Y direction
Z	location of the probe in the body-axis Z direction
ZT	location of the probe in the tunnel-axis Z direction

DATA REPORT FOR A TEST PROGRAM TO STUDY TRANSONIC FLOW FIELDS ABOUT AIRCRAFT WITH APPLICATION TO EXTERNAL STORES

VOLUME VI. - 16T WIND TUNNEL TESTS

1. INTRODUCTION

This volume of the data report presents the data obtained in the 16T Wind Tunnel at Arnold Engineering and Development Center. Tunnel-empty survey data and flow-field survey data are presented for M_∞ = 0.925, 0.975, and 1.025 and force and moment and pressure data are presented at M_∞ = 0.80, 0.85, 0.90, 0.925, 0.95, 0.975, 1.0, 1.025, 1.05, 1.10 and 1.15. All tests are for the 4-percent thick wing-body model and were performed at a nominal Reynolds number per foot of 3.0×10^6. These tests are outlined in Tables I through VI of this volume. The tabulated data are at the end of this volume beginning on page number 1.

2. DESCRIPTION OF TESTS

The details of the test hardware and coordinate systems, as well as an overview of the purpose and scope of the test program, are provided in Volume I of this data report. The purpose of the 16T tests is to study the effects of wall interference by comparing data obtained in the 4T and 16T tests. Figure 1 of this volume shows the entire grid layout used for the inner flow-field measurements. The general grid layout used for the outer flow-field measurements is shown in figure 2. Some layouts use only a portion of these patterns, depending on Mach number and angle of attack. The grid layout is designed to give outer flow-field data at a constant radial distance from the tunnel centerline for various values of θ, the aximuthal angle, as shown in figure 3. A sketch of the wing-body combination is shown in figure 4. Figure 5 shows the 4-percent wing-body combination in the 16T Tunnel with the conical flow-field probe supported on the captive trajectory system (CTS).

The 16T tests are summarized in Table I. Columns one through

three indicate the table number, the type of test data presented (tunnel-empty survey, force and moment and pressure or flow-field survey), and the page numbers, respectively, for each set of data.

2.1 Tunnel-Empty Surveys

Table II contains the test condition grids for the tunnel-empty surveys. Columns one and two of these tests indicate the page number and part number, respectively, of the tabulated data. Columns four through seven indicate the Mach number, the initial and final positions and the incremental change in the axial coordinate, the tunnel-axis X direction, of the probe static-pressure orifices. Columns nine and ten indicate the lateral and vertical positions, the tunnel-axis Y and Z directions, respectively, of the probe longitudinal centerline.

2.2 Force and Moment and Pressure Distribution Tests

Table III contains the test condition grids for the force and moment and pressure distribution tests. Columns one and two of these tests indicate the page number and part number, respectively, of the tabulated data. Columns four and six of the force and moment and pressure tests indicate the Mach number and type of data given on each page; F & M indicates force and moment data and P indicates pressure data.

2.3 Flow-Field Survey Tests

Tables IV through VI contain the test condition grids for the flow-field survey tests at M_∞ = 0.925, 0.975, and 1.025, respectively. Columns one and two of these tests indicate the page number and part number, respectively, of the tabulated data. Columns four through seven of the flow-field survey tests indicate the angle of attack, the initial and final positions and incremental change in the axial coordinate, the body-axis X

direction, of the probe static-pressure orifices. Columns nine and ten indicate the lateral and vertical coordinates, the body-axis Y and Z directions, respectively, of the probe longitudinal centerline. These coordinates indicate the various inner flow-field surveys. The outer flow-field surveys follow the inner flow-field surveys. Columns five, six and seven of these surveys indicate the initial and final positions and incremental change, respectively, of the axial coordinate, the tunnel-axis X direction, of the probe static-pressure orifices. Columns nine and ten indicate the lateral and vertical coordinates, the tunnel-axis Y and Z directions, respectively, of the probe longitudinal centerline.

3. DESCRIPTION OF DATA

This section presents a description of the tunnel-empty survey data, force and moment and pressure data, and flow-field survey data obtained in the 16T Wind Tunnel. These tests were conducted with the 4-percent thick wing-body model at a nominal Reynolds number per foot of 3.0×10^{6}.

3.1 Tunnel-Empty Surveys

The tunnel-empty survey data are presented in tabular form on pages 1 through 10 at the end of this volume. The heading on each page contains the test number, the part number, the Reynolds number per foot, the angle of attack of the model, the type of wing attached to the model (no wing for tunnel-empty surveys), and the Y and Z (or YT and ZT) coordinates at which the X (or XT) traverse is carried out. Also included are the run and survey numbers and the date on which data were recorded.

Below the heading information are the tunnel-empty survey data obtained during each test. Column one indicates the sequential indexing number for referencing data obtained during

one part (POINT). Column two indicates the grid point number and column three indicates the location of the probe static-pressure orifices in the tunnel-axis X direction (XT). Columns four through eight indicate wind tunnel free-stream quantities. These are Mach number (M), velocity (VM, ft/sec), total pressure (PT, psfa), dynamic pressure (Q, psfa), and total temperature (TT, ^{o}F). Columns nine through seventeen indicate local quantities which were either measured by the probe or calculated from probe measurements. Columns nine through twelve contain the local Mach number (ML), the ratio of local to free-stream velocity (VTL/VM), the ratio of local to free-stream total pressure (PTL/PT), and the local pressure coefficient (CPL). Columns thirteen through seventeen contain the ratio of local velocity components in the tunnel-axis X, Y, and Z directions, respectively, to the free-stream velocity (UT/VM, VT/VM, and WT/VM, respectively) and the local upwash and sidewash angles (AATL and SWTL, respectively) referenced to tunnel-axis coordinates.

3.2 Force and Moment and Pressure Distribution Data

The force and moment and pressure data are presented in tabular form on pages 11 through 32 at the end of this volume.

Each Mach number has two pages of data associated with it. The first page contains force and moment data and the second contains pressure data. The heading on both pages is identical and contains the test number, the part number, the free-stream Mach number (M), total pressure (PT, psfa), static pressure (P, psfa), Reynolds number per foot (REX10^{-6}, ft^{-1}), velocity (VM, ft/sec), dynamic pressure (Q, psfa), and stagnation chamber total temperature (TT, ^{o}F). Also included are wing type (4-percent thick for these tests), the run and survey numbers, and the date on which the data were recorded.

Below the heading on the first page of each Mach number section are the data obtained during each force and moment test.

The results for the force and moment tests include the model angle of attack (ALFWM), the normal-force coefficient (CN), side-force coefficient (CY), axial-force coefficient (CA), pitching-moment coefficient (CLM), yawing-moment coefficient (CLN), rolling-moment coefficient (CLL), axial-force coefficient corrected for base effects (CAF), and base axial-force coefficient (CAB). The positive sense of these forces and moments is shown in figure 6.

Below the heading on the second page of each Mach number section are the data obtained during each pressure test. Column one indicates the orifice at which the pressure coefficient was measured. Columns two through six indicate the pressure coefficient at $\alpha = -5^{o}$, -2^{o}, 0^{o}, 2^{o}, and 5^{o}, respectively, at each orifice location. The locations of the pressure orifices are shown in figure 4.

3.3 Flow-Field Survey Tests

The flow-field survey data at Mach numbers 0.925, 0.975 and 1.025 are presented in tabular form on pages 33 through 70 at the end of this volume. The heading on each page contains the test number, the part number, the Reynolds number per foot, the angle of attack of the model, the type of wing attached to the model (4-percent thick for this volume), and the Y and Z (or YT or ZT) coordinates at which the X (or XT) traverse is carried out. Also included are the run and survey numbers and the date on which data were recorded.

Below the heading information are the flow-field survey data obtained during each test. Columns one and two indicate the sequential indexing number for referencing data obtained during one part (POINT) and the grid point number, respectively. Column three indicates the location of the probe static-pressure orifices in the body-axis direction (X) for the inner flow-field surveys or in the tunnel-axis direction (XT) for the outer flow-field surveys. Columns four through eight indicate wind tunnel

free-stream quantities. These are Mach number (M), velocity (VM, ft/sec), total pressure (PT, psfa), dynamic pressure (Q, psfa), and total temperature (TT, ^{o}F). Columns nine through seventeen indicate local quantities which were either measured by the probe or calculated from probe measurements. Columns nine through twelve contain the local Mach number (ML), the ratio of local to free-stream velocity (VML/VM or VTL/VM), the ratio of local to free-stream total pressure (PTL/PT), and the local pressure coefficient (CPL). For the inner flow-field surveys, columns thirteen through seventeen contain the ratio of local velocity components in the body-axis X, Y, and Z directions, respectively, to the free-stream velocity (UL/VM, VL/VM, and WL/VM, respectively) and the local upwash and sidewash angles (AAL and SWL, respectively) referenced to body-axis coordinates. For the outer flow-field surveys, columns thirteen through seventeen contain these same local quantities as determined in the tunnel-axis system. The positive sense of the velocity components is along the positive X, Y, and Z directions. A positive local upwash angle indicates downward flow away from the wing-body combination, the positive Z or ZT direction, see figure 7. A positive local sidewash angle indicates flow along the positive Y or YT axis, see figure 7.

4. DATA UNCERTAINTIES

Uncertainties in the aerodynamic coefficients, local conditions, flow angles, and probe position for the 16T Wind Tunnel were provided by ARO and are presented in Table VII.

The uncertainties in probe positions were particularly difficult to obtain. The values given in Table VII are estimates only. An optical test for one probe position was conducted with the wind on and with the wind off. For these tests, a reflective band was painted on the model body aft of the trailing edge of the wing. The Z-position of the probe in the Y = 0 plane was

measured optically and compared with the nominal (requested) and computed (tabulated) values. For the wind-off cases, an additional check was made by hand using a ruler. Some typical results are given in Table VIII. For all the calibration tests made, the tabulated probe positions were more accurate for the $\alpha = -5^{o}$ cases than for the $\alpha = +5^{o}$ cases.

It is noted here that the center of rotation for pitch in the 16T tunnel was located a considerable distance behind the base of the model. Consequently, the wing-body combination at angle of attack was displaced from its tunnel position at $\alpha = 0^{o}$. At $\alpha = 0^{o}$, the nose was located at $X = 0$, $Z = 0$ and was 3.75 inches below the tunnel centerline. For $\alpha = -5^{o}$, the nose was at $X = .385$, $Z = -8.53$, while at $\alpha = +5^{o}$, the nose was located at $X = .513$, $Z = 11.52$. Such a change in model position with respect to the tunnel centerline for various angles of attack could have an effect on the results obtained for these angles of attack.

REFERENCES

1. Reichenau, D. E.: AFFDL Wing-Body Flow-Field Study Test. PWT 16T Facility Project Criteria, Project No. P41T-M4A, Test No. TF-445, Mar. 10, 1977.

TABLE I.- SUMMARY OF
TABULATED DATA IN VOLUME VI

$Re/ft = 3.0 \times 10^6$

Table (1)	Test (2)	Pages (3)
II	Tunnel-Empty Surveys	1 - 10
III	Force and Moment and Pressure Tests	1I - 32
IV	Flow-Field Surveys At $M_\infty = 0.925$	33 - 45
V	Flow-Field Surveys At $M_\infty = 0.975$	45 - 57
VI	Flow-Field Surveys At $M_\infty = 1.025$	58 - 70

TABLE II.- TUNNEL-EMPTY SURVEYS

	1	2	3	4	5	6	7	8	9	10
	Page No.	Part No.		Mach No.	Initial XT inches	Final XT inches	ΔXT inches		YT inches	ZT inches
	1	102		.925	-6.0	24.0	2.0		0.0	-14.2
	2	103		↓	-40.0	↓	↓		↓	0.0
	3	104		↓	-6.0	↓	↓		14.1	↓
	4	106		↓	↓	↓	↓		0.0	8.3
	5	97		.975	-6.0	24.0	2.0		0.0	-14.2
	6	96		↓	-42.0	↓	↓		0.0	0.0
	7	98		↓	-6.0	↓	↓		14.1	0.0
	8	101		1.025	-6.0	24.0	2.0		0.0	-14.2
	9	100		↓	-40.0	↓	↓		0.0	0.0
	10	99		↓	-6.0	↓	↓		14.1	0.0

TABLE III. - FORCE AND MOMENT AND PRESSURE TESTS

1	2	3	4	5	6	7	8	9	10
Page No.	Part No.		Mach No.		Type of Data				
11	9		.800		F & M				
12	↓		↓		P				
13	10		.850		F & M				
14	↓		↓		P				
15	11		.900		F & M				
16	↓		↓		P				
17	12		.923		F & M				
18	↓		↓		P				
19	13		.950		F & M				
20	↓		↓		P				
21	14		.974		F & M				
22	↓		↓		P				
23	15		1.001		F & M				
24	↓		↓		P				
25	16		1.025		F & M				
26	↓		↓		P				
27	17		1.051		F & M				
28	↓		↓		P				
29	18		1.100		F & M				
30	↓		↓		P				
31	19		1.151		F & M				
32	↓		↓		P				

C.F. 610

TABLE IV. - FLOW-FIELD SURVEYS AT $M_\infty = 0.925$

	1	2	3	4	5	6	7	8	9	10
	Page No.	Part No.		Angle of Attack, degrees	Initial X inches	Final X inches	ΔX inches		Y inches	Z inches
	33	59		0.0	10.0	19.0	.33		4.0	-1.0
	34	77		5.0	11.0	↓	↓		↓	-.9
	35	92		-5.1	↓	↓	↓		↓	-1.1
	36	62		0.0	↓	↓	1.33		-4.0	-1.0
							↓			
					Initial XT inches	Final XT inches	ΔXT inches		YT inches	ZT inches
	37, 38	44, 45		0.0	-5.8	24.0	.50		0.0	-14.2
	39, 40	57, 58		↓	-5.4	↓	↓		14.2	0.0
*	41, 42	72, 73		5.0	-5.0	↓	↓		0.0	-14.0
	43	78		↓	↓	↓	1.00		↓	-13.2
	44	84		↓	↓	↓	↓		14.2	0.0
	45	91		-5.0	-6.0	↓	↓		0.0	-14.1

* $\alpha_{probe} = 5^0$ for parts 72 and 73

TABLE V.- FLOW-FIELD SURVEYS AT $M_\infty = 0.975$

	1	2	3	4	5	6	7	8	9	10
	Page No.	Part No.		Angle of Attack, degrees	Initial X inches	Final X inches	ΔX inches		Y inches	Z inches
	46	60		0.0	11.0	19.0	.33		4.0	-1.0
	47	76		5.0	↓	↓	↓		↓	-.9
	48	87		-5.1	↓	↓	↓		↓	-1.1
	49	61		0.0	↓	↓	1.33		-4.0	-1.0
					Initial XT inches	Final XT inches	ΔXT inches		YT inches	ZT inches
	50, 51	46, 47		0.0	-5.8	24.0	.50		0.0	-14.2
	52	56		↓	-5.4	↓	↓		14.2	0.0
*	53, 54	74, 75		5.0	↓	↓	↓		0.0	-14.1
	55	79		↓	-5.0	↓	1.00		↓	-13.2
	56	83		↓	↓	↓	↓		14.2	0.0
	57	85		-5.1	↓	↓	↓		0.0	-14.1

* $\alpha_{probe} = 5^\circ$ for parts 74 and 75

TABLE VI.- FLOW-FIELD SURVEYS AT $M_\infty = 1.025$

1	2	3	4	5	6	7	8	9	10
Page No.	Part No.		Angle of Attack, degrees	Initial X inches	Final X inches	ΔX inches		Y inches	Z inches
58	25		0.0	10.5	19.0	.50		4.1	-1.0
59	27		5.0	↓	↓	↓		↓	↓
60	31		-5.0	11.0	↓	↓		↓	-1.1
61	63		0.0	10.0	↓	1.00		-4.0	-1.0
62	64		0.0	↓	↓	.33		2.0	↓
				Initial XT inches	Final XT inches	ΔXT inches		YT inches	ZT inches
63, 64	48, 49		0.0	-5.8	24.0	.50		0.0	-14.2
65, 66	50, 51		↓	-5.0	↓	↓		14.2	0.0
67	80		5.0	-5.5	↓	↓		0.0	-13.2
68	82		↓	↓	↓	↓		14.2	0.0
69	81		↓	19.5	↓	↓		↓	1.0
70	89		-5.0	-5.5	↓	↓		0.0	-14.1

TABLE VII.- UNCERTAINTIES FOR THE 16T WIND TUNNEL TESTS.

FORCE AND MOMENT DATA

Uncertainty (±), Absolute

C_N	C_Y	C_A	C_{LL}	C_{LM}	C_{LN}	CPS
.0041	.0015	.0026	.0004	.0051	.0001	.0091

WIND TUNNEL FREE-STREAM PARAMETERS

Uncertainty (±), Absolute

M	Q, psf	P, psf
.0033	2.243	2.566

PROBE POSITION

Uncertainty (±), Absolute

X, in.	Y, in.	Z, in.	α_{probe}, deg
0.150	0.150	0.250	0.25

FLOW AND MODEL ANGLES

Uncertainty (±), Absolute

AAL, deg	SWL, deg
0.229	0.229

LOCAL CONDITIONS

Uncertainty (±), Absolute

M_ℓ	C_P
0.018	0.030

TABLE VIII. - TYPICAL COMPARISON OF NOMINAL, TABULATED AND MEASURED Z-POSITIONS OF PROBE IN Y = 0 PLANE (ALL VALUES ARE IN INCHES).

WIND-OFF

α	Nominal	Tabulated	Measured Optically	Measured by Hand
+5°	1.000	0.829	0.870	0.880
-5°	1.000	1.178	1.08	1.07

WIND-ON

α	Nominal	Tabulated	Measured Optically
+5°	1.000	0.874	0.62
0°	1.000	1.000	0.784
-5°	1.000	1.06	0.94

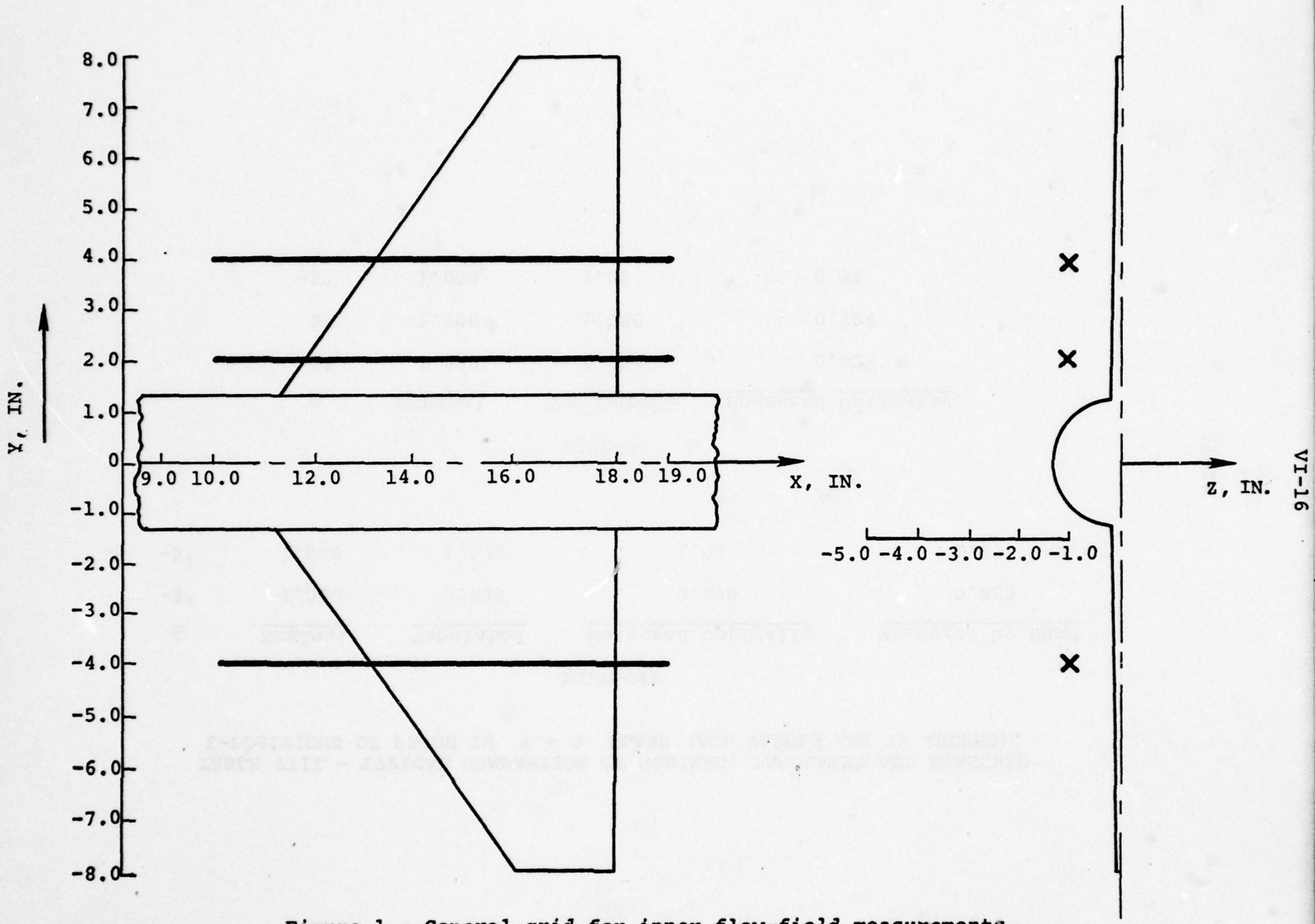
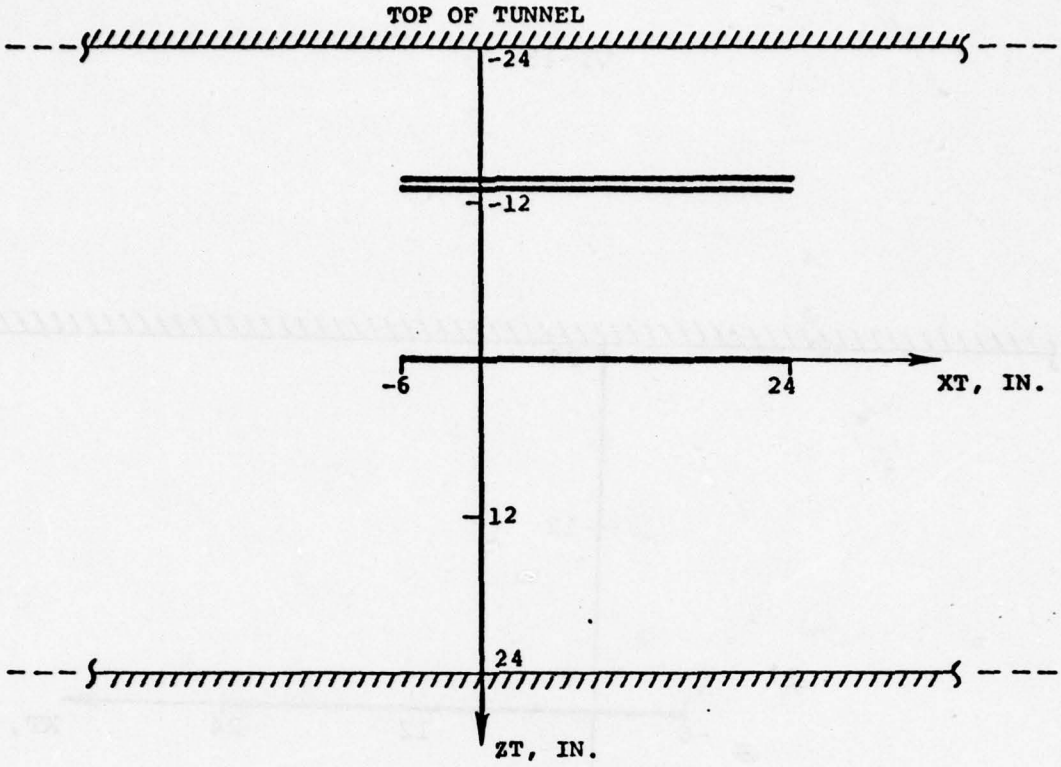
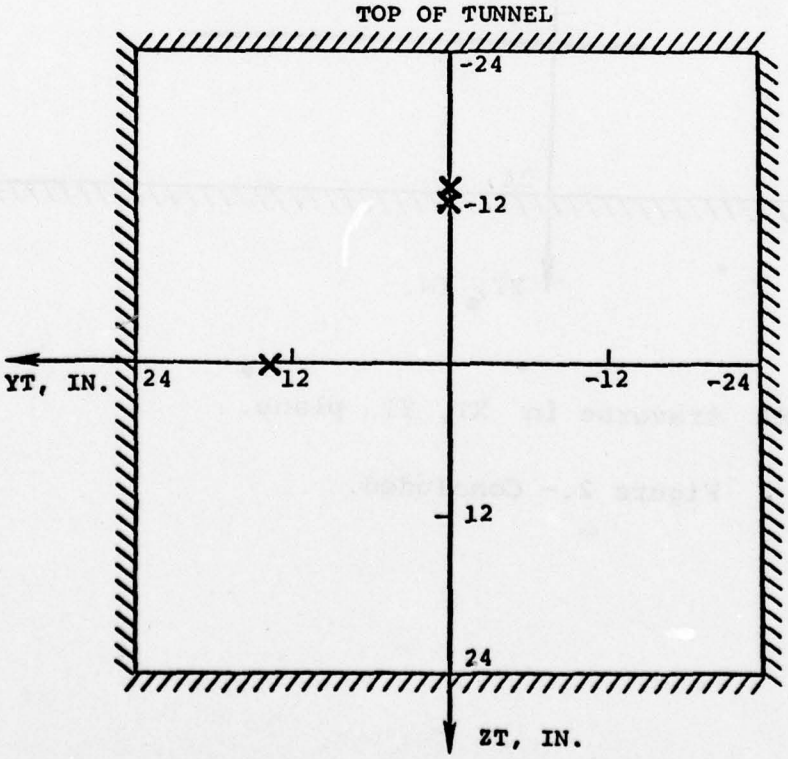


Figure 1.- General grid for inner flow-field measurements.

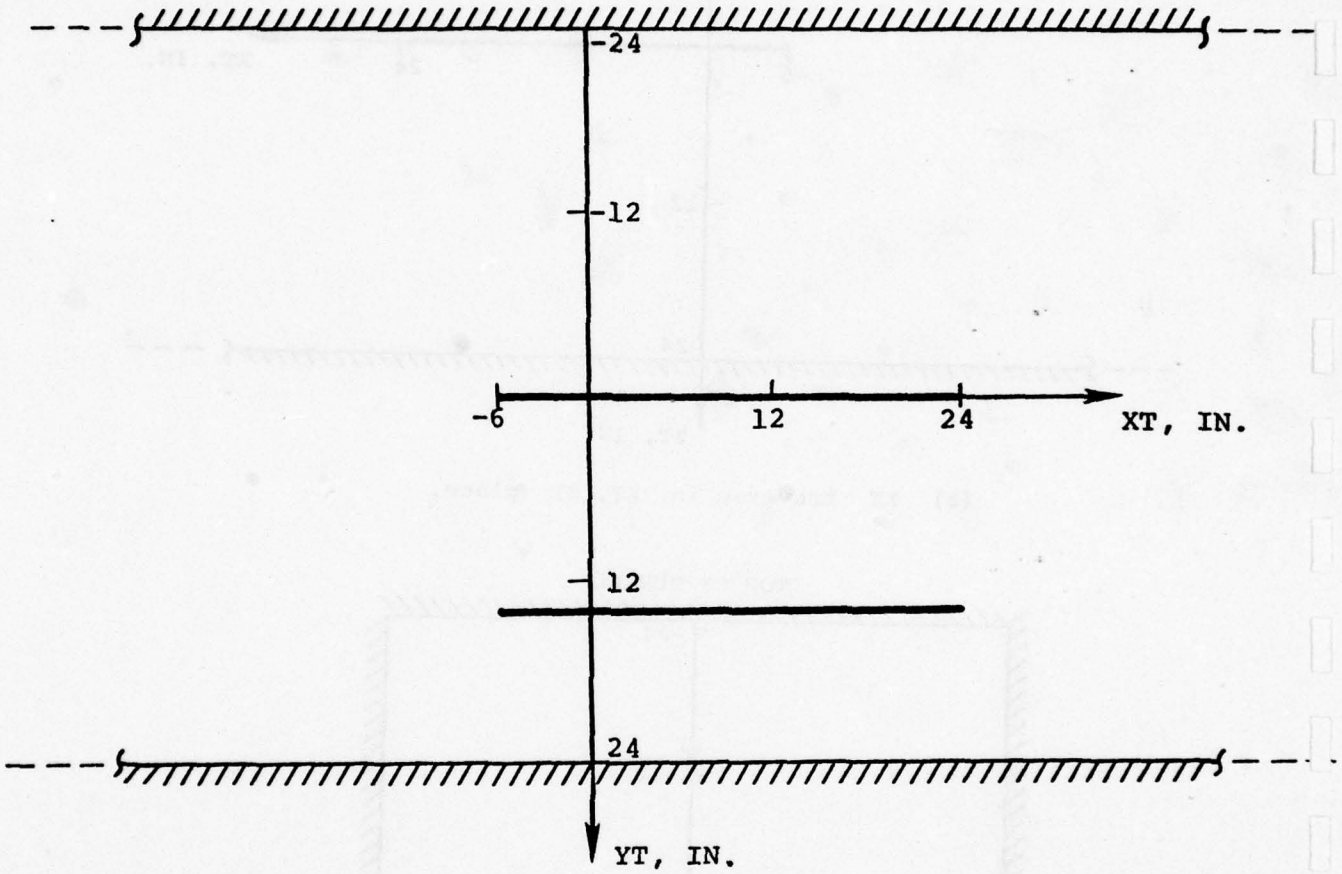


(a) XT traverse in XT, ZT plane.



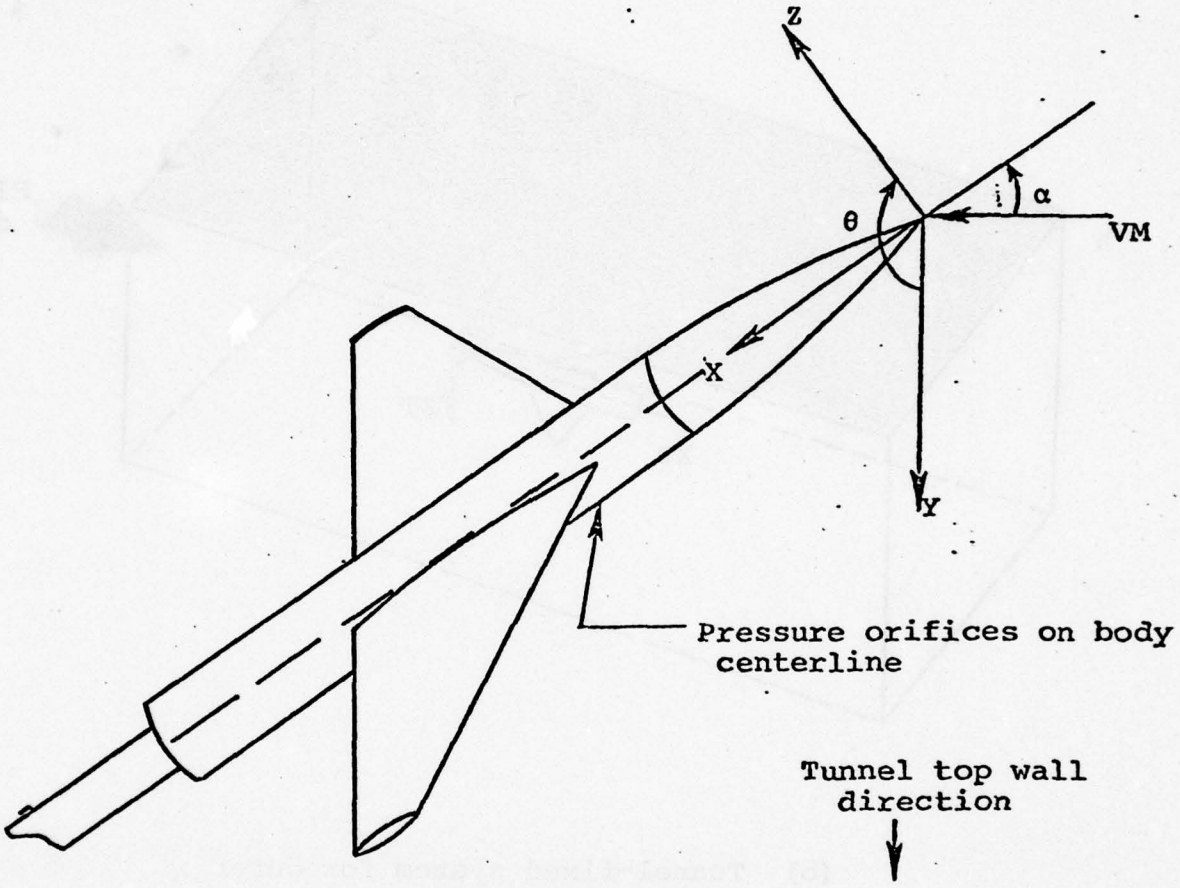
(b) XT traverse in YT, ZT plane.

Figure 2.- General grids for outer flow-field surveys.



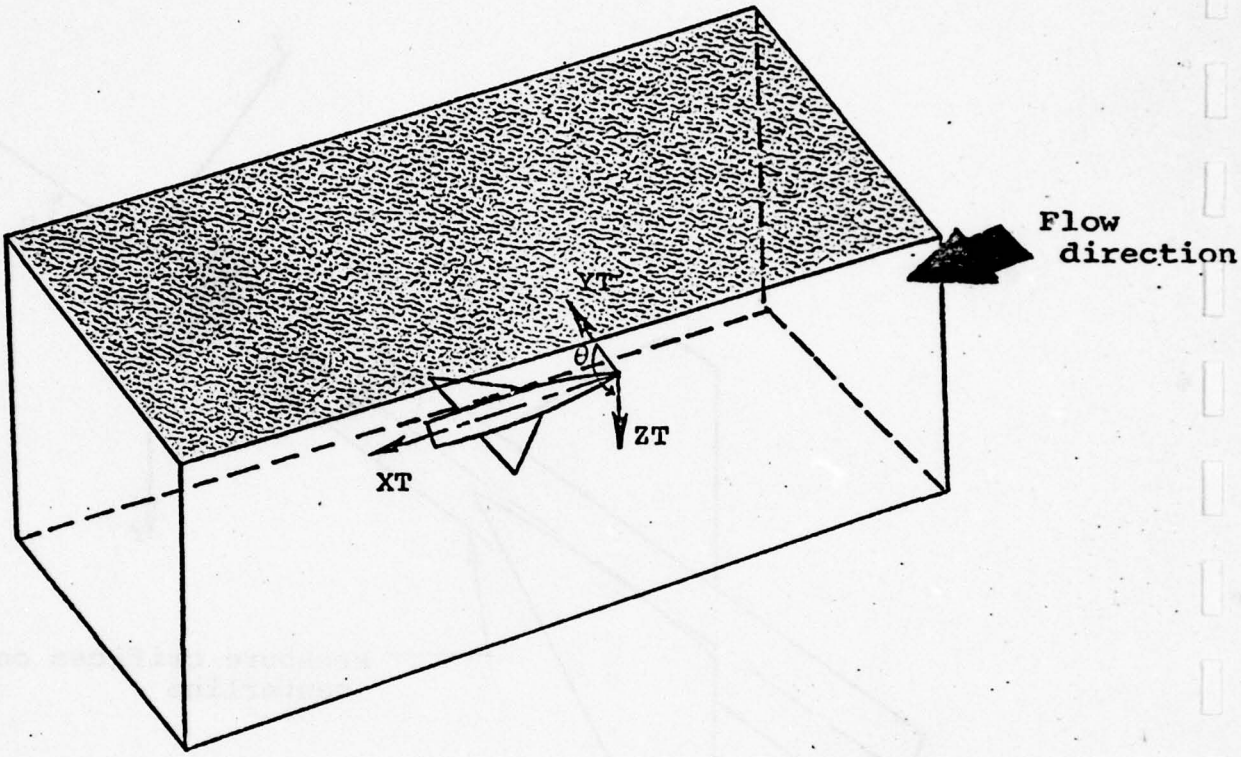
(c) XT traverse in XT, YT plane.

Figure 2.- Concluded.



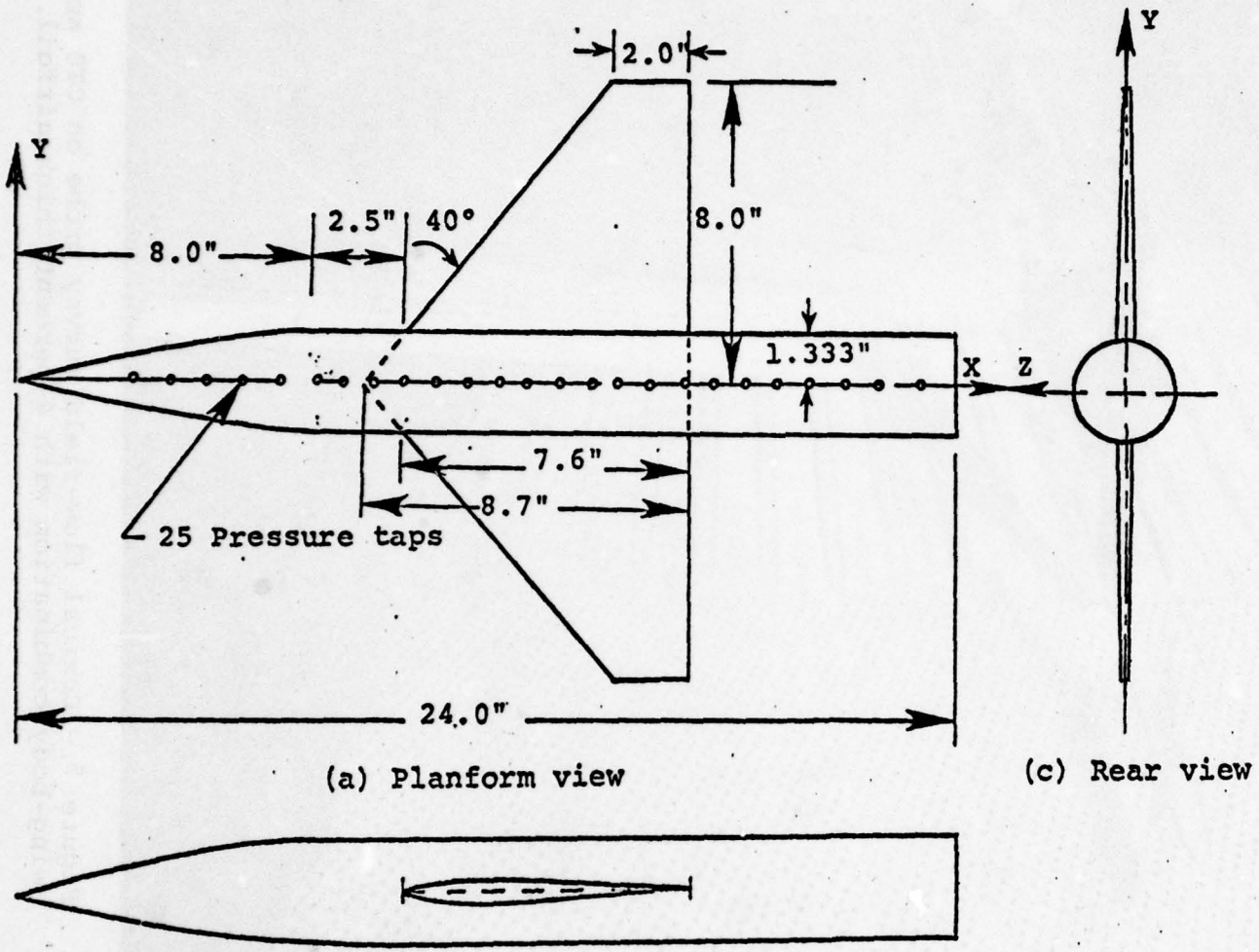
(a) Body-fixed system for inner flow field surveys.

Figure 3.-Coordinate systems.



(b) Tunnel-fixed system for outer flow field surveys.

Figure 3.- Concluded.



BODY COORDINATES

x, in.	r, in.
0	0
0.5	0.162
1.0	0.313
1.5	0.453
2.0	0.583
2.5	0.703
3.0	0.813
3.5	0.912
4.0	1.000
4.5	1.078
5.0	1.146
5.5	1.203
6.0	1.250
6.5	1.287
7.0	1.313
7.5	1.328
8.0	1.333
24.0	1.333

Figure 4.- Wing-body combination.

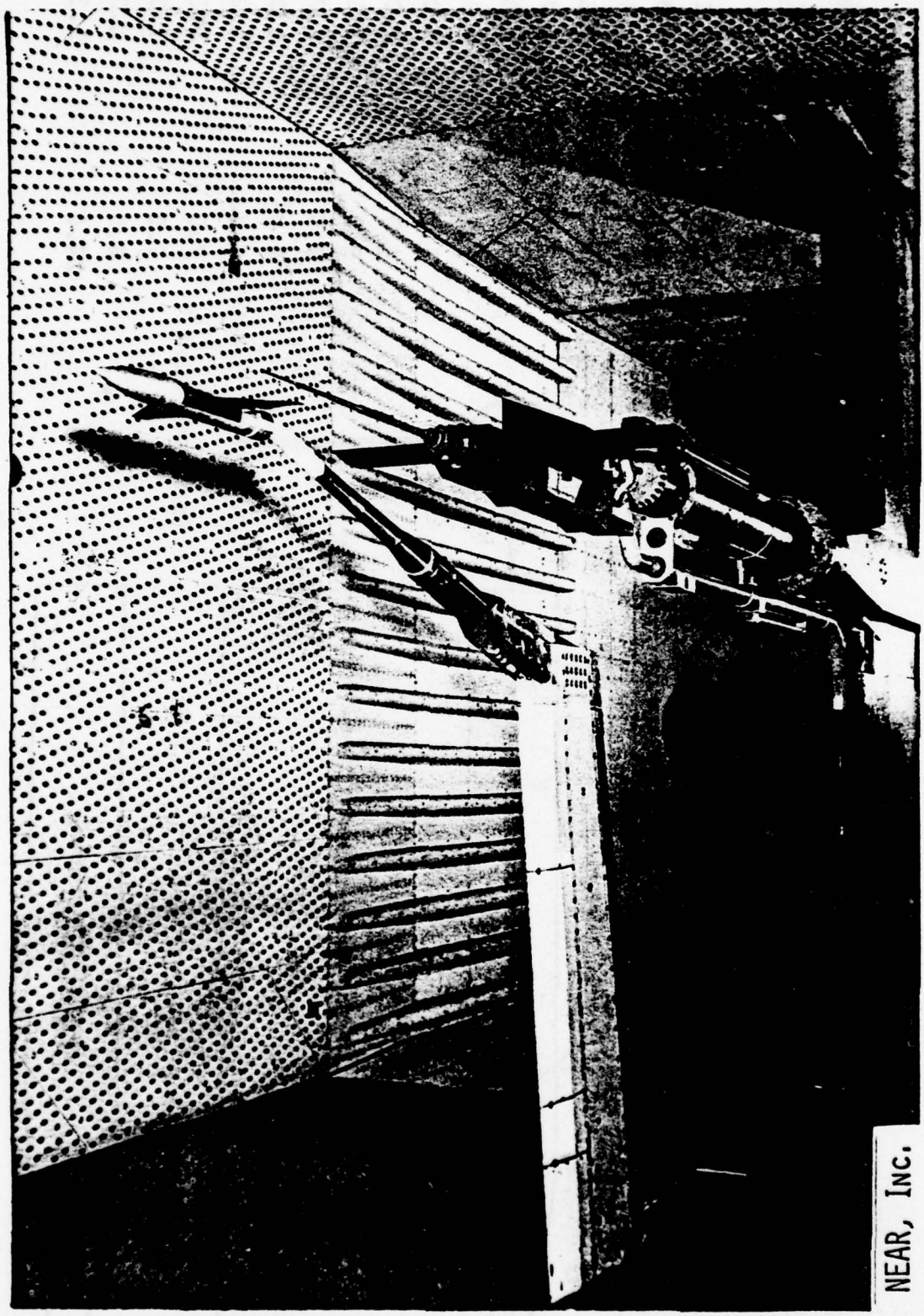


Figure 5.- Conical flow-field survey probe on CTS and wing-body combination with 4-percent thick airfoil.

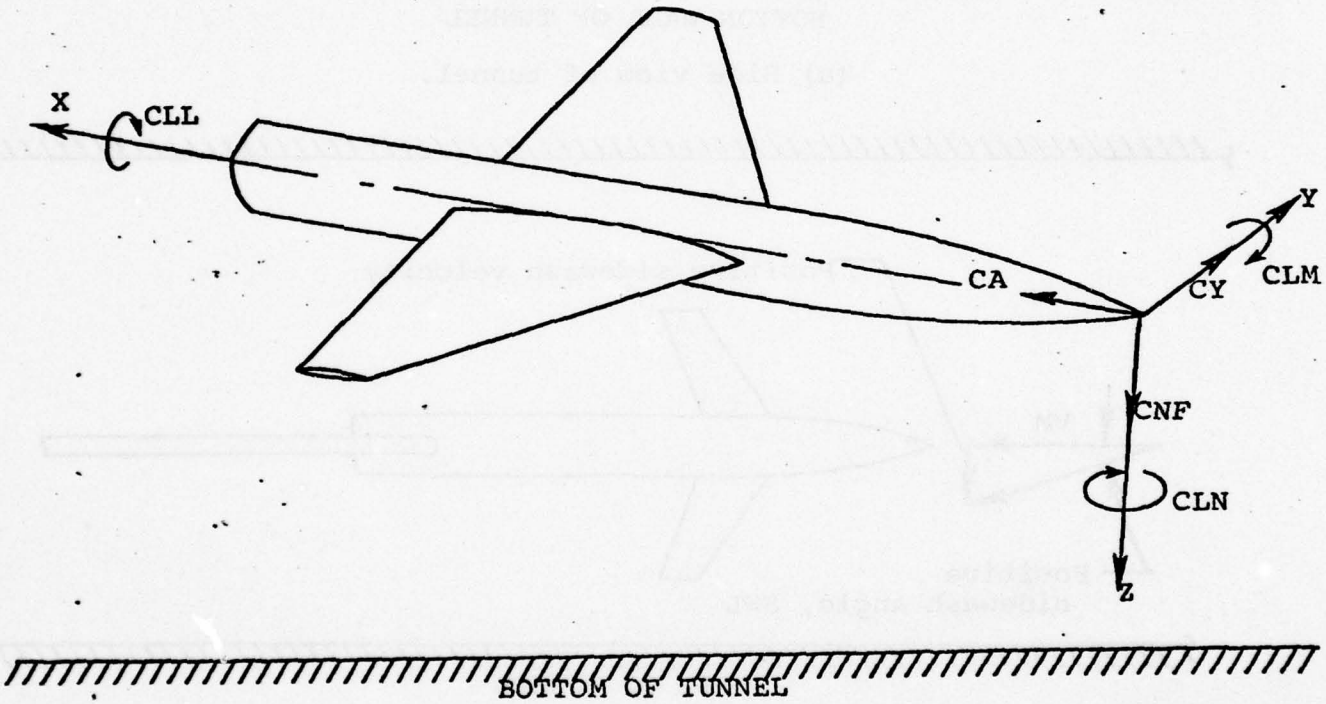
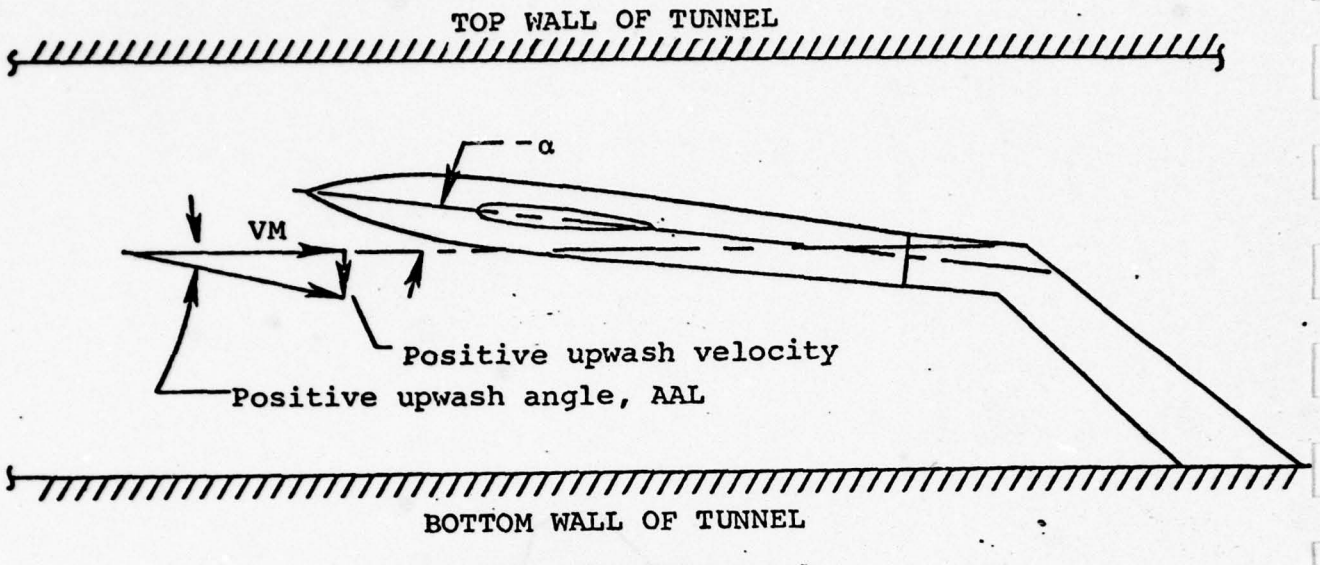
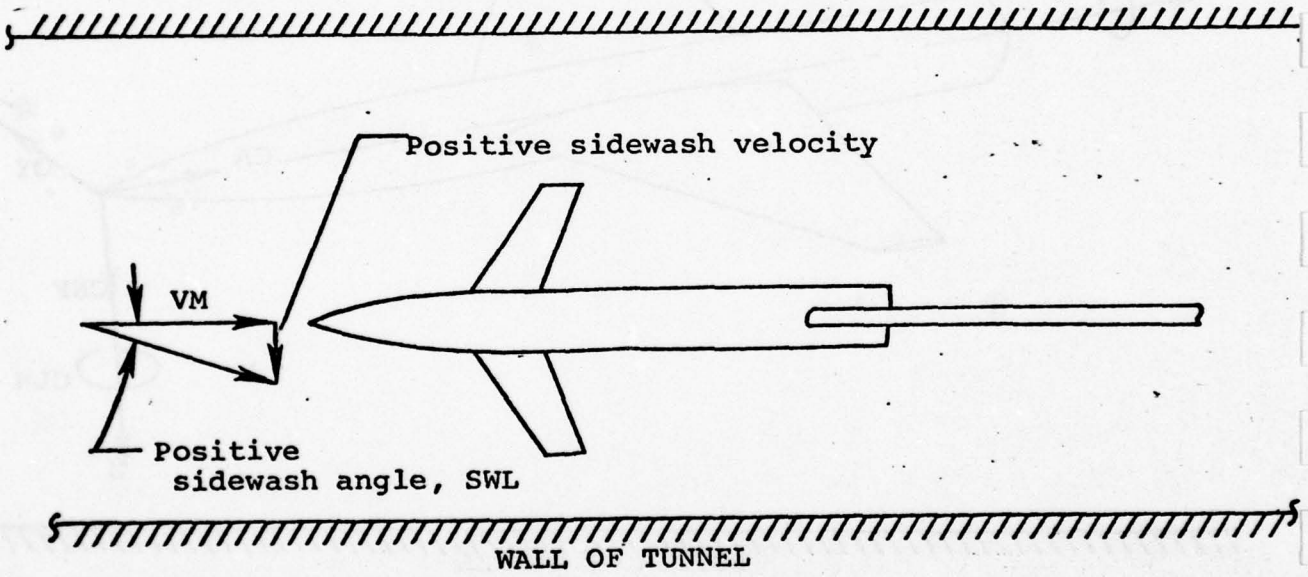


Figure 6.-Sketch of the wing-body configuration in the tunnel showing positive sense of forces and moments.



(a) Side view of tunnel.



(b) Plan view of tunnel from top.

Figure 7.-Pictorial sign convention for upwash and sidewash angles.

TEST	PART	REX10-6	ALPHA	WING	YT	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	102	3.011	0.00	NONE	0.01	-14.17	1	101	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XT	M	VM	PT	Q	TT	ML	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	25	24.016	0.926	982.07	1478.1	509.8	89.3	0.916	0.99	1.000	0.020	0.991	0.008	0.002	0.13	0.44
2	25	21.955	0.926	982.16	1480.0	510.5	89.4	0.919	0.99	1.000	0.014	0.993	0.007	0.003	0.17	0.42
3	25	20.037	0.925	981.50	1482.4	511.0	89.8	0.920	0.99	1.001	0.012	0.995	0.007	0.003	0.17	0.43
4	25	18.007	0.925	981.65	1483.9	511.5	89.4	0.921	1.00	1.001	0.009	0.996	0.007	0.003	0.18	0.42
5	25	16.022	0.925	981.48	1484.8	511.7	89.4	0.919	0.99	1.001	0.012	0.994	0.008	0.004	0.22	0.45
6	25	14.001	0.926	982.18	1484.5	512.0	89.4	0.919	0.99	1.000	0.013	0.993	0.008	0.004	0.25	0.45
7	25	11.983	0.926	982.07	1484.3	511.9	89.4	0.920	0.99	1.000	0.011	0.995	0.008	0.004	0.22	0.45
8	25	10.030	0.926	981.89	1483.8	511.6	89.4	0.920	0.99	0.999	0.008	0.995	0.008	-0.003	-0.19	0.46
9	25	7.994	0.926	982.06	1483.4	511.7	89.2	0.922	1.00	1.001	0.009	0.996	0.008	0.004	0.23	0.47
10	25	5.958	0.925	981.05	1482.6	510.9	89.1	0.919	0.99	1.000	0.013	0.994	0.008	0.004	0.23	0.47
11	25	3.953	0.926	981.59	1482.9	511.2	89.2	0.921	1.00	1.001	0.009	0.996	0.007	0.004	0.24	0.43
12	25	2.021	0.926	981.87	1482.7	511.4	89.1	0.924	1.00	1.001	0.005	0.998	0.005	0.004	0.24	0.30
13	25	0.032	0.926	981.95	1482.7	511.3	89.3	0.919	0.99	1.000	0.013	0.994	0.012	0.005	0.26	0.67
14	25	-1.998	0.926	982.28	1483.0	511.4	89.7	0.921	1.00	1.001	0.010	0.995	0.008	0.005	0.27	0.47
15	25	-3.971	0.926	982.53	1482.2	511.4	89.4	0.923	1.00	1.001	0.007	0.997	0.009	0.005	0.31	0.52
16	25	-5.956	0.926	981.85	1480.1	510.4	89.2	0.917	0.99	1.000	0.016	0.992	0.004	0.004	0.26	0.24

TEST	PART	REX10-6	ALPHA	WING	YT	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	103	3.007	0.00	NONE	0.01	-0.08	1	102	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	PW	PT	Q	TT	RL	VTL/VM	PTL/PT	CPL	UI/VM	VT/VM	WI/VM	AATL	SWTL
1	25	23.959	0.925	981.61	1480.6	510.2	89.6	0.917	0.99	1.000	0.016	0.992	0.012	0.003	0.16	0.67
2	25	21.950	0.926	982.13	1480.8	510.1	89.4	0.918	0.99	1.001	0.015	0.993	0.012	0.003	0.16	0.67
3	25	20.003	0.926	981.90	1481.1	510.6	89.5	0.918	0.99	1.000	0.015	0.993	0.012	0.003	0.18	0.70
4	25	18.000	0.926	982.47	1481.4	511.1	89.4	0.920	0.99	1.001	0.013	0.994	0.012	0.003	0.19	0.66
5	25	16.021	0.926	982.36	1481.4	511.0	89.6	0.922	1.00	1.001	0.008	0.996	0.011	-0.001	-0.07	0.66
6	25	14.011	0.926	982.38	1481.4	511.1	89.3	0.920	0.99	1.001	0.012	0.994	0.012	0.004	0.23	0.67
7	25	12.030	0.926	982.64	1481.7	511.3	89.4	0.934	1.01	1.007	-0.002	1.006	0.012	0.005	0.31	0.67
8	25	10.014	0.927	983.06	1482.3	511.7	89.6	0.922	1.00	1.001	0.011	0.995	0.012	0.004	0.23	0.66
9	25	8.013	0.927	983.67	1482.7	512.2	89.6	0.921	0.99	1.001	0.012	0.994	0.012	0.006	0.34	0.69
10	25	5.991	0.926	982.62	1482.7	511.7	89.4	0.921	0.99	1.000	0.011	0.995	0.012	0.004	0.22	0.68
11	25	3.989	0.926	981.61	1484.0	511.7	89.3	0.923	1.00	1.001	0.007	0.997	0.015	0.004	0.22	0.88
12	25	2.002	0.927	983.04	1485.1	512.7	89.6	0.920	0.99	1.000	0.012	0.994	0.012	0.006	0.37	0.70
13	25	-0.020	0.927	982.44	1484.8	512.2	89.6	0.921	0.99	1.001	0.011	0.995	0.011	0.004	0.24	0.65
14	25	-1.947	0.926	982.56	1485.0	512.4	89.4	0.922	1.00	1.001	0.009	0.996	0.012	0.004	0.25	0.70
15	25	-3.999	0.927	983.00	1484.4	512.5	89.4	0.923	1.00	1.001	0.009	0.996	0.012	0.004	0.23	0.71
16	25	-5.982	0.927	983.03	1483.8	512.2	89.6	0.922	1.00	1.000	0.010	0.995	0.012	0.004	0.25	0.71
17	25	-8.015	0.926	983.66	1483.7	512.6	89.5	0.922	1.00	1.001	0.010	0.995	0.010	0.005	0.28	0.55
18	25	-9.986	0.927	983.49	1482.7	512.2	89.4	0.922	1.00	1.000	0.010	0.995	0.012	0.005	0.26	0.70
19	25	-11.993	0.926	982.41	1482.0	511.3	89.5	0.919	0.99	1.000	0.013	0.994	0.014	0.005	0.26	0.84
20	25	-13.966	0.927	982.93	1481.7	511.5	89.4	0.923	1.00	1.001	0.009	0.996	0.013	0.007	0.40	0.72
21	25	-16.003	0.927	983.17	1481.3	511.4	89.6	0.923	1.00	1.001	0.008	0.996	0.013	0.005	0.31	0.72
22	25	-17.983	0.927	983.07	1481.1	511.3	89.5	0.920	0.99	1.001	0.014	0.993	0.017	0.005	0.30	0.98
23	25	-19.969	0.926	982.40	1481.1	511.0	89.3	0.922	1.00	1.000	0.009	0.996	0.012	0.005	0.30	0.70
24	25	-21.972	0.927	982.46	1481.0	511.1	89.1	0.922	1.00	1.000	0.010	0.995	0.012	0.005	0.30	0.70
25	25	-23.984	0.926	982.48	1481.1	510.9	89.6	0.923	1.00	1.001	0.008	0.997	0.012	0.005	0.29	0.70
26	25	-25.981	0.926	982.40	1480.8	510.7	89.7	0.921	1.00	1.000	0.009	0.996	0.012	0.005	0.31	0.68
27	25	-27.998	0.925	981.76	1481.0	510.6	89.4	0.921	1.00	1.000	0.008	0.996	0.012	0.005	0.30	0.69
28	25	-30.055	0.926	981.98	1480.7	510.5	89.4	0.922	1.00	1.000	0.007	0.997	0.012	0.006	0.32	0.69
29	25	-32.000	0.926	982.09	1480.4	510.5	89.5	0.922	1.00	1.001	0.007	0.997	0.012	0.006	0.32	0.71
30	25	-33.959	0.925	981.72	1479.9	510.2	89.4	0.921	1.00	1.001	0.008	0.996	0.012	0.006	0.33	0.68
32	25	-36.045	0.926	981.78	1479.5	510.1	89.4	0.922	1.00	1.001	0.008	0.996	0.012	0.007	0.41	0.69
33	25	-37.996	0.926	981.90	1479.2	510.0	89.4	0.923	1.00	1.001	0.007	0.997	0.012	0.006	0.32	0.70
34	25	-39.991	0.925	981.75	1479.1	509.9	89.4	0.922	1.00	1.001	0.008	0.997	0.012	0.006	0.33	0.69

TEST	PART	REX10-6	ALPHA	WIND	YI	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	104	3.014	0.00	NONE	14.12	-0.03	1	103	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XT	M	VM	PT	N	TT	RL	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	25	23.986	0.925	981.23	1473.7	509.5	89.4	0.918	0.99	1.001	0.014	0.994	0.016	0.003	0.19	0.90
2	25	22.028	0.925	981.10	1480.7	510.1	89.4	0.919	0.99	1.001	0.012	0.995	0.015	0.003	0.17	0.86
3	25	19.957	0.925	980.97	1482.7	510.6	89.5	0.919	0.99	1.001	0.012	0.995	0.016	0.004	0.23	0.90
4	25	14.010	0.925	981.11	1484.3	511.4	89.3	0.919	0.99	1.001	0.013	0.994	0.016	0.004	0.23	0.91
5	25	15.986	0.925	981.68	1484.8	511.6	89.4	0.918	0.99	1.001	0.015	0.993	0.015	0.004	0.21	0.88
6	25	13.983	0.926	982.33	1482.7	511.5	89.4	0.922	1.00	1.000	0.008	0.996	0.016	-0.002	-0.14	0.93
7	25	11.956	0.927	982.79	1481.1	511.3	89.3	0.921	0.99	1.001	0.014	0.994	0.016	0.005	0.27	0.94
8	25	10.058	0.927	983.13	1479.3	510.9	89.3	0.920	0.99	1.000	0.014	0.993	0.017	0.005	0.27	0.98
9	25	7.969	0.926	981.76	1477.9	509.6	89.3	0.919	0.99	1.000	0.013	0.994	0.016	0.004	0.24	0.95
10	25	6.004	0.925	981.55	1477.2	509.2	89.3	0.920	1.00	1.001	0.011	0.995	0.017	0.004	0.23	0.96
11	25	4.038	0.925	981.31	1477.1	509.1	89.2	0.919	0.99	1.000	0.011	0.995	0.016	0.004	0.23	0.95
12	25	1.981	0.925	981.06	1478.4	509.3	89.4	0.921	1.00	1.001	0.008	0.997	0.016	0.004	0.25	0.94
13	25	-0.013	0.925	980.83	1479.0	509.4	89.3	0.921	1.00	1.001	0.008	0.996	0.016	0.005	0.26	0.94
14	25	-1.951	0.925	981.13	1480.2	510.0	89.2	0.921	1.00	1.001	0.008	0.997	0.016	0.004	0.25	0.91
15	25	-3.979	0.925	981.29	1481.0	510.4	89.2	0.922	1.00	1.003	0.010	0.997	0.016	0.011	0.62	0.93
16	25	-5.981	0.925	981.62	1482.3	510.9	89.4	0.922	1.00	1.001	0.007	0.997	0.016	0.005	0.27	0.93

TEST	PART	MACH NO	ALPHA	WING	YI	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	106	3.014	0.00	NONE	0.00	8.10	1	110	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	VM	PT	Q	TT	PL	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	25	23.956	0.923	979.73	1478.8	508.5	89.5	0.915	0.99	1.000	0.014	0.993	0.016	0.002	0.11	0.93
2	25	22.050	0.923	979.86	1478.7	508.6	89.5	0.917	0.99	1.001	0.013	0.994	0.016	0.001	0.03	0.91
3	25	19.943	0.923	979.96	1477.4	507.8	89.1	0.916	0.99	1.000	0.013	0.994	0.016	-0.002	-0.14	0.90
4	25	17.937	0.923	980.07	1478.4	508.5	89.7	0.917	0.99	1.000	0.012	0.994	0.015	-0.006	-0.36	0.89
5	25	15.999	0.923	979.88	1478.2	508.5	89.4	0.918	1.00	1.001	0.011	0.995	0.015	-0.009	-0.51	0.89
6	25	13.989	0.924	980.21	1478.8	508.8	89.5	0.919	1.00	1.001	0.010	0.996	0.015	-0.008	-0.46	0.89
7	25	12.031	0.924	980.34	1479.4	509.0	89.7	0.916	0.99	1.000	0.014	0.993	0.015	-0.005	-0.26	0.88
8	25	10.010	0.924	980.77	1479.6	509.5	89.4	0.919	1.00	1.000	0.010	0.995	0.015	-0.007	-0.43	0.87
9	25	7.981	0.924	980.49	1479.5	509.4	89.3	0.920	1.00	1.000	0.009	0.996	0.016	-0.006	-0.35	0.92
10	25	5.998	0.925	981.27	1480.5	510.0	89.6	0.921	1.00	1.000	0.008	0.996	0.015	-0.005	-0.30	0.87
11	25	4.034	0.925	980.96	1480.6	510.0	89.3	0.921	1.00	1.000	0.008	0.996	0.015	-0.005	-0.30	0.84
13	25	0.000	0.924	980.65	1481.3	509.9	89.6	0.920	1.00	1.001	0.008	0.996	0.014	-0.005	-0.27	0.79
14	25	-2.124	0.924	980.78	1481.7	510.1	89.6	0.921	1.00	1.001	0.007	0.997	0.015	-0.005	-0.28	0.88
15	25	-4.002	0.924	980.08	1481.8	509.8	89.4	0.919	1.00	1.000	0.008	0.996	0.015	-0.005	-0.29	0.87
16	25	-6.003	0.924	980.10	1483.2	510.3	89.4	0.921	1.00	1.001	0.007	0.997	0.015	-0.005	-0.28	0.84

TEST	PART	REX10-6	ALPHA	WING	YT	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-465	97	2.597	0.00	NONE	-0.03	-14.18	1	101	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XT	M	VM	PT	Q	TT	ML	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	25	23.591	0.974	1025.15	1449.9	524.2	89.4	0.964	0.97	1.000	0.054	0.973	0.012	0.003	0.18	0.73
2	25	21.990	0.974	1025.08	1448.7	523.6	89.5	0.964	0.99	1.000	0.017	0.992	0.008	0.004	0.22	0.43
3	25	19.994	0.974	1025.03	1451.5	524.6	89.6	0.973	1.00	1.001	0.003	0.999	0.007	0.004	0.22	0.40
4	25	17.988	0.975	1026.00	1450.4	527.1	89.7	0.975	1.00	1.001	0.002	1.000	0.007	0.004	0.21	0.37
5	25	15.995	0.976	1027.38	1455.1	527.2	89.4	0.970	0.99	1.000	0.011	0.995	0.007	0.004	0.21	0.42
6	25	14.012	0.976	1026.91	1449.5	525.1	89.2	0.960	0.99	1.000	0.028	0.986	0.008	0.004	0.22	0.45
7	25	11.994	0.976	1026.85	1446.5	523.8	89.4	0.966	0.99	1.000	0.018	0.991	0.008	0.004	0.23	0.47
8	25	10.039	0.975	1025.99	1446.2	523.3	89.4	0.971	1.00	1.000	0.008	0.996	0.008	0.003	0.20	0.46
9	25	7.990	0.975	1025.69	1448.0	523.8	89.4	0.976	1.00	1.001	-0.000	1.001	0.007	0.004	0.25	0.40
10	25	6.029	0.974	1025.53	1452.6	525.3	89.5	0.978	1.00	1.001	-0.005	1.003	0.006	0.004	0.23	0.36
11	25	4.022	0.975	1026.33	1456.6	527.2	89.5	0.980	1.00	1.001	-0.006	1.004	0.006	0.004	0.23	0.35
12	25	2.025	0.976	1027.05	1457.4	527.9	89.5	0.977	1.00	1.001	-0.001	1.001	0.007	0.005	0.26	0.40
13	25	-0.010	0.975	1026.33	1453.7	526.2	89.4	0.970	1.00	1.000	0.010	0.995	0.008	0.004	0.25	0.45
14	25	-1.982	0.975	1026.49	1452.2	525.6	89.6	0.972	1.00	1.000	0.007	0.997	0.009	0.005	0.26	0.50
15	25	-4.007	0.975	1026.67	1450.9	525.2	89.6	0.973	1.00	1.000	0.004	0.998	0.008	0.004	0.24	0.48
16	25	-5.969	0.974	1025.29	1448.5	523.8	89.2	0.968	0.99	1.000	0.011	0.995	0.008	0.004	0.26	0.47

TEST	PART	REX10-6	ALFDI	PHIDG	YI	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	96	2.996	0.00	NONE	-0.02	-0.08	1	102	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	VM	PT	Q	TT	ML	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	25	23.972	0.974	1025.25	1450.6	524.4	89.1	0.964	0.99	1.000	0.017	0.991	0.011	0.004	0.23	0.61
5	25	23.976	0.975	1026.08	1453.6	526.0	89.4	0.967	0.99	1.001	0.015	0.993	0.011	0.003	0.20	0.62
6	25	21.954	0.975	1025.96	1452.3	525.5	89.4	0.962	0.99	1.001	0.023	0.989	0.011	0.003	0.20	0.61
7	25	19.974	0.976	1026.05	1451.4	525.5	89.4	0.970	1.00	1.001	0.010	0.995	0.011	0.005	0.31	0.61
8	25	17.990	0.975	1026.46	1451.6	525.4	89.6	0.975	1.00	1.001	0.002	1.000	0.011	0.004	0.21	0.64
9	25	16.025	0.976	1026.48	1452.0	525.9	89.4	0.972	1.00	1.001	0.008	0.997	0.011	0.006	0.34	0.64
10	25	13.996	0.976	1026.94	1453.2	526.3	89.4	0.972	1.00	1.001	0.008	0.996	0.011	0.004	0.22	0.65
11	25	12.022	0.976	1026.84	1454.1	526.6	89.4	0.977	1.00	1.001	-0.001	1.001	0.011	0.002	0.13	0.63
12	25	10.015	0.976	1026.73	1453.9	526.5	89.4	0.968	1.01	1.004	-0.016	1.010	0.011	0.004	0.22	0.60
13	25	7.993	0.975	1025.47	1453.9	525.9	89.2	0.970	1.00	1.001	0.009	0.996	0.011	0.004	0.22	0.65
14	25	6.024	0.975	1025.39	1452.9	525.6	89.5	0.971	1.00	1.000	0.007	0.996	0.012	0.004	0.25	0.66
15	25	4.017	0.974	1025.69	1452.0	525.1	89.6	0.966	0.99	1.000	0.015	0.992	0.011	0.004	0.24	0.63
16	25	1.993	0.974	1025.67	1451.4	524.9	89.5	0.969	1.00	1.000	0.010	0.995	0.011	0.004	0.23	0.64
17	25	-0.016	0.974	1025.29	1449.8	524.2	89.5	0.969	1.00	1.000	0.009	0.996	0.011	0.004	0.25	0.63
18	25	-2.024	0.974	1025.53	1450.6	524.6	89.4	0.975	1.00	1.001	0.001	1.000	0.011	0.005	0.26	0.64
19	25	-3.951	0.974	1024.65	1452.2	524.9	89.1	0.971	1.00	1.001	0.006	0.997	0.011	0.005	0.26	0.65
20	25	-5.964	0.975	1025.65	1454.8	526.2	89.4	0.973	1.00	1.001	0.003	0.999	0.010	0.004	0.24	0.60
21	25	-7.950	0.975	1026.40	1456.0	527.0	89.4	0.973	1.00	1.000	0.004	0.998	0.011	0.005	0.26	0.63
22	25	-10.007	0.975	1026.31	1456.2	527.0	89.5	0.971	1.00	1.001	0.008	0.997	0.012	0.005	0.27	0.67
23	25	-11.994	0.976	1026.76	1455.4	527.0	89.4	0.974	1.00	1.001	0.003	0.999	0.012	0.006	0.32	0.66
24	25	-13.995	0.976	1026.62	1454.4	526.6	89.3	0.972	1.00	1.000	0.007	0.997	0.011	0.005	0.27	0.63
25	25	-15.976	0.976	1026.69	1452.0	525.7	89.4	0.963	0.99	1.000	0.022	0.989	0.008	0.005	0.29	0.48
26	25	-18.003	0.976	1026.51	1450.4	525.1	89.4	0.944	0.97	1.002	0.058	0.972	0.011	0.019	1.13	0.67
27	25	-19.977	0.975	1025.66	1448.1	523.9	89.2	0.971	1.00	1.000	0.008	0.996	0.012	0.005	0.29	0.68
28	25	-21.973	0.974	1024.93	1448.4	523.6	89.3	0.974	1.00	1.000	0.000	1.000	0.009	0.005	0.30	0.53
29	25	-24.017	0.974	1025.21	1450.0	524.2	89.4	0.977	1.00	1.001	-0.004	1.003	0.011	0.005	0.26	0.63
30	25	-25.952	0.974	1025.12	1451.1	524.6	89.4	0.969	1.00	1.000	0.009	0.996	0.011	0.005	0.30	0.64
31	25	-27.950	0.974	1025.07	1452.4	524.9	89.5	0.974	1.00	1.001	0.000	1.000	0.010	0.005	0.31	0.55
32	25	-29.968	0.974	1025.62	1453.3	525.6	89.5	0.969	1.00	1.001	0.010	0.996	0.012	0.005	0.30	0.70
33	25	-32.042	0.974	1024.91	1453.6	525.4	89.3	0.976	1.00	1.000	-0.004	1.002	0.008	0.006	0.33	0.45
34	25	-33.960	0.974	1025.39	1453.6	525.6	89.4	0.973	1.00	1.000	0.002	0.999	0.011	0.006	0.34	0.63
35	25	-35.964	0.974	1025.37	1450.3	524.4	89.4	0.972	1.00	1.001	0.005	0.998	0.012	0.006	0.33	0.69
36	25	-38.011	0.974	1025.40	1451.1	524.6	89.6	0.943	0.97	0.997	0.049	0.973	0.011	0.003	0.18	0.65
37	25	-40.030	0.974	1024.92	1452.0	524.8	89.3	0.974	1.00	1.001	0.001	1.000	0.011	0.006	0.35	0.63
38	25	-42.021	0.974	1024.56	1453.5	525.2	89.2	0.974	1.00	1.001	0.000	1.000	0.010	0.006	0.33	0.59
39	25	-17.989	0.975	1025.93	1452.6	525.6	89.4	0.974	1.00	1.000	0.002	0.999	0.011	0.007	0.42	0.65
40	25	-17.986	0.975	1025.88	1448.7	524.1	89.4	0.966	0.99	1.000	0.015	0.992	0.011	0.005	0.30	0.65

TEST	PART	REX10-6	ALPHA	WING	YI	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	9A	3.004	0.00	NONE	14.13	-0.05	1	103	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	VM	PT	Q	TT	AL	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	A&TL	S*TL
1	25	23.972	0.974	1025.25	1454.6	525.7	89.4	0.964	1.01	1.004	-0.012	1.008	0.014	0.003	0.19	0.82
2	25	22.009	0.976	1026.60	1454.2	526.5	89.4	0.965	0.99	1.000	0.019	0.990	0.016	0.004	0.21	0.90
3	25	20.034	0.977	1026.01	1452.8	526.8	89.2	0.964	0.99	1.000	0.024	0.988	0.015	0.002	0.13	0.87
4	25	18.004	0.977	1027.42	1449.9	525.4	89.3	0.944	0.97	1.000	0.058	0.971	0.021	0.004	0.22	1.22
5	25	15.988	0.976	1027.41	1447.9	524.6	89.5	0.970	0.99	1.001	0.012	0.994	0.015	0.004	0.21	0.85
6	25	14.001	0.977	1027.42	1447.0	524.3	89.4	0.972	1.00	1.001	0.010	0.996	0.015	0.004	0.22	0.87
7	25	12.020	0.976	1026.43	1446.8	523.8	89.3	0.970	0.99	1.001	0.011	0.995	0.015	0.004	0.24	0.87
8	25	10.029	0.975	1026.26	1449.6	524.6	89.5	0.972	1.00	1.001	0.007	0.997	0.014	0.004	0.21	0.83
9	25	7.984	0.976	1026.83	1452.1	525.8	89.5	0.975	1.00	0.999	0.001	0.999	0.014	0.000	0.02	0.82
10	25	6.029	0.976	1027.15	1452.5	526.1	89.5	0.972	1.00	1.001	0.008	0.997	0.015	0.005	0.26	0.86
11	25	3.970	0.977	1027.67	1453.1	526.6	89.5	0.974	1.00	1.000	0.006	0.997	0.015	0.004	0.22	0.84
12	25	2.027	0.976	1027.21	1451.7	525.9	89.5	0.974	1.00	1.001	0.005	0.998	0.015	0.004	0.23	0.88
13	25	0.001	0.976	1027.16	1450.9	525.5	89.7	0.972	1.00	1.001	0.008	0.996	0.015	0.003	0.18	0.89
14	25	-1.984	0.976	1026.56	1450.5	525.1	89.4	0.975	1.00	1.001	0.001	1.000	0.015	0.005	0.26	0.87
15	25	-4.006	0.975	1025.70	1451.8	525.2	89.3	0.979	1.00	1.001	-0.007	1.004	0.015	0.007	0.40	0.84
16	25	-5.984	0.974	1025.42	1453.3	525.5	89.5	0.974	1.00	1.001	0.001	1.000	0.014	0.005	0.30	0.82

TEST	PART	REX10-6	ALPHA	WING	YI	ZI	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	101	3.002	0.00	NONE	0.01	-14.17	1	101	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	V4	PT	Q	TT	ML	VTL/VM	PTL/PT	CPL	UI/VM	VT/VM	WT/VM	AATL	SWTL
1	25	23.970	1.025	1070.71	1433.5	541.1	90.0	1.006	0.98	1.001	0.032	0.984	0.006	0.004	0.21	0.33
2	25	21.964	1.025	1069.91	1433.4	540.7	89.7	1.002	0.98	1.000	0.038	0.981	0.006	0.004	0.25	0.34
3	25	19.992	1.024	1068.77	1432.7	540.0	89.4	0.987	0.97	1.000	0.061	0.970	0.012	0.004	0.24	0.69
4	25	18.020	1.025	1070.12	1434.2	541.1	89.7	0.992	0.97	0.999	0.052	0.973	0.005	0.004	0.22	0.28
5	25	16.008	1.025	1069.98	1434.3	541.0	89.8	1.005	0.98	1.000	0.033	0.984	0.006	0.004	0.22	0.35
6	25	14.004	1.026	1070.72	1434.4	541.4	89.8	1.005	0.98	1.000	0.034	0.983	0.006	0.004	0.22	0.36
7	25	11.989	1.027	1071.37	1435.1	542.1	89.7	1.000	0.98	1.000	0.043	0.979	0.004	0.004	0.26	0.24
8	25	9.978	1.027	1072.08	1435.7	542.5	89.9	1.002	0.98	1.001	0.042	0.980	0.005	0.005	0.28	0.31
9	25	7.994	1.026	1072.02	1435.4	542.6	89.5	1.006	0.98	1.001	0.036	0.983	0.006	0.004	0.24	0.35
10	25	5.994	1.026	1070.79	1435.3	541.8	89.7	1.003	0.98	1.001	0.039	0.981	0.005	0.004	0.26	0.31
11	25	3.997	1.026	1071.14	1435.6	542.2	89.6	1.003	0.98	1.001	0.039	0.981	0.004	0.004	0.22	0.50
12	25	1.998	1.026	1070.80	1435.9	542.1	89.6	1.004	0.98	1.001	0.036	0.982	0.005	0.004	0.22	0.31
13	25	0.005	1.026	1071.21	1436.7	542.5	89.8	1.011	0.99	1.001	0.026	0.988	-0.000	0.004	0.25	-0.00
14	25	-1.977	1.026	1070.99	1435.5	542.1	89.5	1.000	0.98	1.001	0.043	0.979	0.005	0.005	0.28	0.30
15	25	-4.015	1.027	1071.66	1434.5	542.0	89.7	1.002	0.98	1.000	0.040	0.980	0.006	0.005	0.29	0.36
16	25	-5.989	1.027	1071.93	1433.3	541.5	89.9	1.007	0.98	1.000	0.033	0.984	0.007	0.004	0.25	0.42

TEST	PART	MACH NO	ALPHA	WING	YI	ZI	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	100	3.002	0.00	NONE	0.00	-0.10	1	102	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	VM	PI	Q	TT	RL	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	25	23.990	1.025	1070.65	1433.5	541.2	89.8	1.007	0.99	1.000	0.030	0.985	0.013	0.003	0.20	0.79
2	25	22.041	1.026	1071.37	1432.2	540.9	89.8	1.006	0.98	1.001	0.035	0.983	0.009	0.003	0.20	0.52
3	25	19.983	1.026	1071.39	1430.9	540.4	89.9	1.003	0.98	1.001	0.039	0.981	0.009	0.003	0.16	0.50
4	25	18.004	1.027	1071.48	1430.5	540.3	89.8	1.005	0.98	1.001	0.036	0.983	0.008	0.003	0.20	0.49
5	25	15.983	1.026	1072.28	1431.1	541.0	89.6	1.002	0.98	1.001	0.042	0.979	0.011	0.004	0.21	0.62
6	25	14.029	1.027	1072.17	1432.8	541.6	89.7	1.005	0.98	1.000	0.038	0.981	0.010	0.004	0.21	0.57
7	25	11.992	1.026	1071.20	1433.8	541.4	89.8	1.007	0.98	1.001	0.032	0.985	0.010	0.004	0.23	0.58
8	25	10.046	1.025	1069.90	1435.3	541.3	90.0	1.003	0.98	1.001	0.036	0.982	0.009	0.004	0.25	0.54
9	25	7.980	1.024	1069.18	1436.2	541.4	89.8	1.005	0.98	1.001	0.032	0.984	0.010	0.004	0.23	0.56
10	25	6.031	1.024	1069.79	1436.0	541.3	89.4	1.001	0.98	1.000	0.037	0.981	0.010	0.004	0.22	0.59
11	25	4.053	1.024	1069.05	1435.0	541.0	89.6	1.000	0.98	1.000	0.040	0.980	0.010	0.004	0.26	0.61
12	25	2.014	1.024	1069.42	1433.6	540.5	89.9	1.002	0.98	1.000	0.036	0.982	0.010	0.004	0.22	0.59
13	25	0.017	1.025	1070.04	1432.7	540.3	90.1	0.999	0.98	1.000	0.042	0.979	0.009	0.005	0.27	0.53
14	25	-1.988	1.024	1069.72	1431.7	539.9	89.9	0.998	0.98	1.000	0.044	0.978	0.009	0.005	0.27	0.55
15	25	-3.972	1.025	1069.70	1430.3	539.5	89.5	0.999	0.98	1.001	0.042	0.979	0.010	0.004	0.23	0.57
16	25	-6.019	1.025	1069.81	1430.7	539.7	89.4	1.000	0.98	1.000	0.040	0.980	0.010	0.005	0.28	0.56
17	25	-7.956	1.025	1069.68	1431.4	539.9	89.5	1.002	0.98	1.001	0.038	0.981	0.009	0.005	0.30	0.55
18	25	-9.975	1.025	1070.27	1432.2	540.3	89.9	1.004	0.98	1.000	0.034	0.983	0.010	0.005	0.32	0.59
19	25	-11.972	1.025	1069.54	1432.3	540.3	89.7	1.005	0.98	1.001	0.034	0.984	0.010	0.004	0.23	0.58
20	25	-13.996	1.025	1069.55	1432.3	540.3	89.4	1.010	0.99	1.000	0.024	0.988	0.014	0.005	0.30	0.81
21	25	-15.992	1.025	1069.41	1433.0	540.4	89.5	1.006	0.98	1.000	0.031	0.985	0.011	0.005	0.30	0.63
22	25	-17.983	1.025	1069.96	1433.1	540.6	89.7	1.011	0.99	1.001	0.023	0.989	0.010	0.005	0.27	0.60
23	25	-20.022	1.025	1069.96	1433.3	540.7	89.7	1.012	0.99	1.001	0.022	0.989	0.010	0.005	0.31	0.57
24	25	-22.029	1.025	1069.81	1433.4	540.8	89.5	1.017	0.99	1.000	0.013	0.993	0.016	0.005	0.32	0.90
25	25	-23.981	1.025	1069.85	1432.9	540.4	89.8	1.002	0.98	1.000	0.037	0.982	0.006	0.006	0.34	0.36
26	25	-26.025	1.025	1070.25	1433.1	540.7	89.9	1.012	0.99	1.001	0.023	0.989	0.009	0.004	0.23	0.53
27	25	-27.987	1.025	1070.04	1432.3	540.4	89.7	1.008	0.99	1.000	0.028	0.986	0.009	0.008	0.45	0.53
28	25	-30.007	1.025	1069.98	1432.0	540.2	89.7	0.998	0.98	1.000	0.044	0.978	0.006	0.006	0.35	0.34
29	25	-31.990	1.025	1069.83	1431.9	540.2	89.5	0.996	0.98	1.000	0.048	0.976	0.005	0.006	0.34	0.27
30	25	-34.026	1.025	1069.74	1432.3	540.2	89.8	1.003	0.98	1.001	0.037	0.982	0.009	0.006	0.32	0.54
32	25	-35.987	1.024	1069.11	1432.6	540.1	89.5	0.998	0.98	1.000	0.043	0.978	0.008	0.006	0.32	0.49
33	25	-37.937	1.024	1069.66	1433.1	540.4	89.8	1.002	0.98	1.001	0.038	0.982	0.010	0.006	0.33	0.56
34	25	-39.991	1.024	1069.57	1433.5	540.6	89.7	1.001	0.98	1.001	0.038	0.981	0.010	0.006	0.33	0.56

TEST	PART	REX10-6	ALPHA	WING	YT	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	99	3.002	0.00	NONE	14.13	-0.05	1	103	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XT	M	VM	PT	Q	TT	PL	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	25	24.022	1.024	1069.13	1436.1	541.5	89.5	0.996	0.98	1.000	0.046	0.977	0.014	0.003	0.17	0.81
2	25	21.944	1.024	1069.24	1443.2	544.2	89.4	1.014	0.99	1.001	0.018	0.992	0.013	0.003	0.18	0.72
3	25	20.044	1.025	1072.59	1444.8	546.5	89.3	1.017	0.99	1.001	0.019	0.991	0.013	0.003	0.17	0.73
4	25	18.014	1.024	1068.59	1426.8	537.7	89.4	0.986	0.97	1.000	0.061	0.969	0.016	0.003	0.20	0.94
5	25	16.002	1.026	1070.71	1431.5	540.4	89.6	1.005	0.98	1.001	0.035	0.983	0.010	0.003	0.20	0.56
6	25	14.001	1.026	1070.94	1435.6	542.0	89.8	1.001	0.98	1.001	0.041	0.980	0.011	0.003	0.20	0.67
7	25	12.027	1.026	1070.93	1435.2	541.9	89.6	1.003	0.98	1.000	0.039	0.961	0.014	0.004	0.25	0.82
8	25	10.000	1.026	1070.83	1435.0	541.9	89.5	1.007	0.98	1.000	0.031	0.985	0.014	0.004	0.25	0.80
9	25	8.001	1.026	1070.77	1434.3	541.7	89.3	1.006	0.98	1.001	0.034	0.983	0.013	0.004	0.23	0.77
10	25	5.981	1.023	1068.42	1432.6	539.8	89.4	1.004	0.98	1.001	0.033	0.984	0.014	0.003	0.20	0.81
11	25	3.988	1.026	1070.43	1432.3	540.6	89.5	1.002	0.98	1.001	0.039	0.981	0.013	0.004	0.23	0.78
12	25	1.974	1.025	1070.18	1432.0	540.3	89.8	1.002	0.98	1.001	0.038	0.981	0.013	0.004	0.24	0.77
13	25	-0.000	1.025	1069.93	1431.9	540.2	89.6	1.002	0.98	1.001	0.039	0.981	0.013	0.004	0.24	0.78
14	25	-1.965	1.025	1069.58	1431.8	540.0	89.5	1.001	0.98	1.001	0.039	0.981	0.013	0.005	0.27	0.76
15	25	-3.985	1.024	1069.00	1432.0	539.9	89.4	0.997	0.98	1.001	0.046	0.978	0.012	0.004	0.25	0.69
16	25	-5.974	1.025	1069.66	1433.3	540.6	89.7	0.998	0.98	1.000	0.043	0.978	0.012	0.005	0.28	0.71

TEST	PART	M	PT	P	REX10-6	VM	Q	TT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	4	0.800	1573.0	1032.4	3.005	864.2	461.97	89.20	4 PCT	7	701	4-12-77	TRANSONIC 16T

ALFWM	CN	CY	CA	CLM	CLN	CLL	CAF	CAB
5.42	0.5150	0.0018	0.0175	0.0428	0.0005	0.0019	0.0072	0.0103
2.13	0.2024	0.0006	0.0238	0.0193	0.0003	0.0025	0.0143	0.0095
-0.06	0.0106	-0.0000	0.0275	0.0020	0.0000	0.0027	0.0184	0.0091
-2.25	-0.1772	-0.0006	0.0259	-0.0156	-0.0001	0.0033	0.0170	0.0090
-5.57	-0.4942	-0.0020	0.0209	-0.0388	-0.0006	0.0037	0.0120	0.0089

TEST	PART	M	PT	P	REALD-6	V1	W	TT	WIND	RUN SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TR-445	9	0.800	1573.0	1042.4	3.005	864.2	461.97	89.20	4 PCT	7.701	4-12-77	TRANSONIC 16T

		PRESSURE COEFFICIENTS		CPS=(PS-P1)/Q		
ORIFICE		ALF WM= 5.42	ALF WM= 2.13	ALF WM=-0.06	ALF WM=-2.25	ALF WM=-5.57
1	CPS 1=	-0.0413	-0.0055	0.0272	0.0576	0.1132
2	CPS 2=	-0.0916	-0.0634	-0.0359	-0.0088	0.0398
3	CPS 3=	-0.1297	-0.1101	-0.0887	-0.0668	-0.0243
4	CPS 4=	-0.1460	-0.1362	-0.1219	-0.1122	-0.0710
5	CPS 5=	-0.1321	-0.1311	-0.1214	-0.1127	-0.0832
6	CPS 6=	-0.0627	-0.0634	-0.0565	-0.0500	-0.0247
7	CPS 7=	-0.0660	-0.0648	-0.0588	-0.0519	-0.0257
8	CPS 8=	-0.0476	-0.0316	-0.0181	-0.0051	0.0323
9	CPS 9=	-0.0762	-0.0344	-0.0088	0.0146	0.0650
10	CPS10=	-0.1232	-0.0452	0.0005	0.0314	0.1015
11	CPS11=	-0.1614	-0.0624	-0.0093	0.0347	0.1109
12	CPS12=	-0.1824	-0.0769	-0.0243	0.0253	0.1024
13	CPS13=	-0.1856	-0.0919	-0.0382	0.0061	0.0823
14	CPS14=	-0.1665	-0.0877	-0.0396	0.0024	0.0735
15	CPS15=	-0.1544	-0.0914	-0.0499	-0.0140	0.0482
16	CPS16=	-0.1293	-0.0811	-0.0490	-0.0196	0.0337
17	CPS17=	-0.0995	-0.0652	-0.0415	-0.0205	0.0225
18	CPS18=	-0.0616	-0.0396	-0.0238	-0.0098	0.0225
19	CPS19=	-0.0231	-0.0102	0.0005	0.0094	0.0323
20	CPS20=	-0.0036	0.0038	0.0103	0.0164	0.0304
21	CPS21=	0.0039	0.0085	0.0127	0.0169	0.0262
22	CPS22=	0.0029	0.0048	0.0071	0.0103	0.0183
23	CPS23=	0.0043	0.0048	0.0066	0.0089	0.0164
24	CPS24=	-0.0003	-0.0018	0.0019	0.0033	0.0108
25	CPS25=	-0.0329	-0.0321	-0.0303	-0.0289	-0.0257

TEST	PART	M	PT	P	REX10-6	VM	Q	TT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	10	0.850	1530.1	954.2	3.002	912.5	482.37	90.00	4 PCT	0	0	5-24-77	TRANSONIC 16T

ALFWM	CN	CY	CA	CLM	CLN	CLL	CAF	CAB
-5.61	-0.5153	-0.0017	0.0211	-0.0376	-0.0005	0.0036	0.0124	0.0087
-2.29	-0.1862	-0.0005	0.0251	-0.0154	-0.0001	0.0035	0.0162	0.0088
-0.08	0.0084	0.0002	0.0272	0.0012	0.0001	0.0030	0.0183	0.0089
2.15	0.2103	0.0008	0.0236	0.0184	0.0004	0.0025	0.0144	0.0092
5.49	0.5342	0.0020	0.0180	0.0402	0.0005	0.0018	0.0080	0.0100

TEST	PART	M	PT	P	REX10-6	VM	Q	TT	WIND	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	10	0.850	1530.1	954.2	3.002	912.5	482.37	90.00	4 PCT	0	0	5-24-77	TRANSONIC 16T

PRESSURE COEFFICIENTS CPS=(PS-P)/Q

ORIFICE		ALFWM=-5.61	ALFWM=-2.29	ALFWM=-0.08	ALFWM= 2.15	ALFWM= 5.49
1	CPS 1=	0.1275	0.0699	0.0368	0.0060	-0.0348
2	CPS 2=	0.0445	-0.0061	-0.0355	-0.0604	-0.0921
3	CPS 3=	-0.0237	-0.0682	-0.0936	-0.1124	-0.1284
4	CPS 4=	-0.0713	-0.1094	-0.1294	-0.1407	-0.1521
5	CPS 5=	-0.0861	-0.1174	-0.1307	-0.1349	-0.1355
6	CPS 6=	-0.0219	-0.0486	-0.0583	-0.0604	-0.0581
7	CPS 7=	-0.0241	-0.0401	-0.0619	-0.0613	-0.0563
8	CPS 8=	0.0392	0.0020	-0.0141	-0.0236	-0.0334
9	CPS 9=	0.0741	0.0239	-0.0025	-0.0250	-0.0607
10	CPS10=	0.1091	0.0435	0.0024	-0.0375	-0.1167
11	CPS11=	0.1249	0.0525	-0.0007	-0.0564	-0.1669
12	CPS12=	0.1123	0.0355	-0.0186	-0.0788	-0.1996
13	CPS13=	0.0939	0.0167	-0.0364	-0.0945	-0.2067
14	CPS14=	0.0822	0.0100	-0.0405	-0.0936	-0.1866
15	CPS15=	0.0526	-0.0119	-0.0583	-0.1026	-0.1736
16	CPS16=	0.0355	-0.0195	-0.0570	-0.0914	-0.1431
17	CPS17=	0.0212	-0.0226	-0.0503	-0.0730	-0.1087
18	CPS18=	0.0203	-0.0092	-0.0280	-0.0416	-0.0634
19	CPS19=	0.0337	0.0149	0.0029	-0.0053	-0.0173
20	CPS20=	0.0342	0.0221	0.0149	0.0113	0.0046
21	CPS21=	0.0311	0.0230	0.0181	0.0163	0.0127
22	CPS22=	0.0221	0.0156	0.0127	0.0122	0.0104
23	CPS23=	0.0203	0.0127	0.0114	0.0104	0.0104
24	CPS24=	0.0158	0.0069	0.0047	0.0046	0.0055
25	CPS25=	-0.0219	-0.0267	-0.0271	-0.0268	-0.0276

TEST	PART	M	PT	P	REX10-6	VM	Q	TT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
IF-445	11	0.900	1494.6	883.7	3.001	959.3	501.03	90.30	4 PCT	0	0	5-24-77	TRANSONIC 16I

ALFWM	CN	CY	CA	CLM	CLN	CLL	CAF	CAB
5.53	0.5627	0.0023	0.0185	0.0353	0.0005	0.0023	0.0087	0.0098
2.17	0.2216	0.0010	0.0240	0.0174	0.0003	0.0029	0.0151	0.0090
-0.08	0.0059	0.0006	0.0279	0.0011	0.0001	0.0029	0.0191	0.0088
-2.29	-0.1991	-0.0003	0.0260	-0.0145	-0.0001	0.0035	0.0174	0.0086
-5.12	-0.4944	-0.0012	0.0215	-0.0291	-0.0003	0.0038	0.0128	0.0087

TEST	PART	M	PT	P	REX10-6	VM	Q	TT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	11	0.900	1494.6	883.7	3.001	959.3	501.03	90.30	4 PCT	0	0	5-24-77	TRANSONIC 16T

PRESSURE COEFFICIENTS CPS=(PS-P)/Q

ORIFICE		ALFWM= 5.93	ALFWM= 2.17	ALFWM=-0.08	ALFWM=-2.29	ALFWM=-5.12
1	CPS 1=	-0.0337	0.0057	0.0359	0.0704	0.1221
2	CPS 2=	-0.0942	-0.0496	-0.0433	-0.0063	0.0376
3	CPS 3=	-0.1435	-0.1230	-0.1023	-0.0779	-0.0378
4	CPS 4=	-0.1643	-0.1580	-0.1458	-0.1279	-0.0947
5	CPS 5=	-0.1427	-0.1494	-0.1470	-0.1370	-0.1128
6	CPS 6=	-0.0501	-0.0604	-0.0592	-0.0542	-0.0357
7	CPS 7=	-0.0397	-0.0539	-0.0571	-0.0512	-0.0309
8	CPS 8=	-0.0133	-0.0150	-0.0089	0.0049	0.0350
9	CPS 9=	-0.0367	-0.0142	0.0058	0.0307	0.0734
10	CPS10=	-0.1003	-0.0319	0.0161	0.0544	0.1174
11	CPS11=	-0.1638	-0.0569	0.0023	0.0553	0.1247
12	CPS12=	-0.2136	-0.0837	-0.0166	0.0406	0.1126
13	CPS13=	-0.2469	-0.1105	-0.0403	0.0178	0.0894
14	CPS14=	-0.2564	-0.1183	-0.0498	0.0062	0.0760
15	CPS15=	-0.2612	-0.1299	-0.0700	-0.0188	0.0437
16	CPS16=	-0.1764	-0.1222	-0.0756	-0.0326	0.0230
17	CPS17=	-0.1202	-0.0949	-0.0683	-0.0382	0.0044
18	CPS18=	-0.0631	-0.0466	-0.0356	-0.0184	0.0079
19	CPS19=	-0.0099	0.0001	0.0053	0.0143	0.0290
20	CPS20=	0.0165	0.0225	0.0247	0.0286	0.0355
21	CPS21=	0.0247	0.0269	0.0281	0.0316	0.0355
22	CPS22=	0.0208	0.0212	0.0213	0.0238	0.0264
23	CPS23=	0.0187	0.0174	0.0174	0.0200	0.0234
24	CPS24=	0.0126	0.0109	0.0105	0.0122	0.0178
25	CPS25=	-0.0220	-0.0215	-0.0218	-0.0210	-0.0184

TEST	PART	M	PT	P	REX10-6	VM	Q	TT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	12	0.923	1477.3	851.5	2.995	980.6	508.11	90.30	4 PCT	0	0	5-24-77	TRANSONIC 16T

ALEVM	CN	CY	CA	CLM	CLN	CLL	CAF	CAB
-5.16	-0.5302	-0.0011	0.0206	-0.0152	-0.0004	0.0042	0.0118	0.0088
-2.30	-0.2081	-0.0000	0.0255	-0.0119	-0.0000	0.0033	0.0168	0.0088
-0.08	0.0078	0.0006	0.0275	0.0021	0.0001	0.0029	0.0187	0.0088
2.18	0.2320	0.0011	0.0236	0.0162	0.0004	0.0026	0.0146	0.0090
4.89	0.5356	0.0013	0.0174	0.0211	0.0010	0.0047	0.0079	0.0095

TEST	PART	M	PT	P	REX10-6	VM	Q	TT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	12	0.923	1477.3	851.5	2.995	980.6	508.11	90.30	4 PCT	0	0	5-24-77	TRANSONIC 16T

PRESSURE COEFFICIENTS CPS=(PS-P)/Q

ORIFICE		ALFWM=-5.16	ALFWM=-2.30	ALFWM=-0.08	ALFWM= 2.18	ALFWM= 4.89
1	CpS 1=	0.1277	0.0824	0.0465	0.0143	-0.0227
2	CpS 2=	0.0405	-0.0035	-0.0336	-0.0607	-0.0878
3	CpS 3=	-0.0411	-0.0797	-0.1052	-0.1276	-0.1464
4	CpS 4=	-0.1004	-0.1338	-0.1514	-0.1674	-0.1758
5	CpS 5=	-0.1228	-0.1487	-0.1590	-0.1628	-0.1524
6	CpS 6=	-0.0361	-0.0560	-0.0607	-0.0598	-0.0499
7	CpS 7=	-0.0301	-0.0517	-0.0548	-0.0514	-0.0355
8	CpS 8=	0.0401	0.0075	-0.0039	-0.0086	-0.0027
9	CpS 9=	0.0820	0.0308	0.0130	-0.0014	-0.0214
10	CpS_{10}=	0.1171	0.0685	0.0262	-0.0171	-0.0699
11	CpS_{11}=	0.1344	0.0651	0.0130	-0.0463	-0.1277
12	CpS_{12}=	0.1222	0.0477	-0.0094	-0.0789	-0.1766
13	CpS_{13}=	0.0972	0.0240	-0.0353	-0.1064	-0.2106
14	CpS_{14}=	0.0799	0.0113	-0.0484	-0.1213	-0.2255
15	CpS_{15}=	0.0460	-0.0208	-0.0772	-0.1488	-0.2553
16	CpS_{16}=	0.0215	-0.0395	-0.0904	-0.1560	-0.2752
17	CpS_{17}=	-0.0014	-0.0505	-0.0874	-0.1251	-0.2544
18	CpS_{18}=	0.0029	-0.0268	-0.0433	-0.0501	-0.0593
19	CpS_{19}=	0.0308	0.0143	0.0079	0.0075	0.0147
20	CpS_{20}=	0.0431	0.0329	0.0304	0.0316	0.0406
21	CpS_{21}=	0.0443	0.0350	0.0346	0.0346	0.0453
22	CpS_{22}=	0.0350	0.0266	0.0262	0.0291	0.0355
23	CpS_{23}=	0.0291	0.0219	0.0206	0.0223	0.0279
24	CpS_{24}=	0.0211	0.0147	0.0139	0.0139	0.0185
25	CpS_{25}=	-0.0162	-0.0196	-0.0192	-0.0192	-0.0163

TEST	PART	M	PT	P	REX10-6	VM	Q	TT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	13	0.950	1470.5	822.2	3.010	1005.2	519.98	90.40	4 PCT	7	701	4-12-77	TRANSONIC IAT

ALFBM	CN	CY	CA	CLM	CLN	CLL	CAF	CAB
5.02	0.5710	0.0027	0.0222	0.0028	0.0004	0.0024	0.0127	0.0095
2.18	0.2430	0.0013	0.0270	0.0072	0.0004	0.0023	0.0180	0.0090
-0.07	0.0083	0.0008	0.0300	0.0019	0.0002	0.0025	0.0211	0.0089
-2.31	-0.2160	0.0000	0.0290	-0.0041	-0.0001	0.0037	0.0202	0.0089
-5.15	-0.5428	-0.0010	0.0262	0.0017	-0.0002	0.0031	0.0175	0.0087

TEST	PART	M	PT	P	REALO-6	VM	Q	TT	WIND	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	13	0.950	1470.5	822.2	3.010	1005.2	519.98	90.40	4 PCT	7	701	4-12-77	TRANSONIC 16T

PRESSURE COEFFICIENTS CPS=(PS-P)/Q

ORIFICE		ALFWM= 5.02	ALFWM= 2.18	ALFWM=-0.07	ALFWM=-2.31	ALFWM=-5.15
1	CPS 1=	-0.0152	0.0154	0.0471	0.0811	0.1314
2	CPS 2=	-0.0547	-0.0579	-0.0329	-0.0016	0.0445
3	CPS 3=	-0.1534	-0.1345	-0.1134	-0.0858	-0.0456
4	CPS 4=	-0.1682	-0.1411	-0.1677	-0.1477	-0.1129
5	CPS 5=	-0.1980	-0.2244	-0.2244	-0.2070	-0.1698
6	CPS 6=	-0.0336	-0.0412	-0.0463	-0.0414	-0.0323
7	CPS 7=	-0.0189	-0.0366	-0.0450	-0.0335	-0.0240
8	CPS 8=	0.0150	0.0038	0.0033	0.0163	0.0466
9	CPS 9=	0.0033	0.0086	0.0196	0.0458	0.0894
10	CPS10=	-0.0420	-0.0104	0.0355	0.0782	0.1297
11	CPS11=	-0.1094	-0.0366	0.0175	0.0748	0.1422
12	CPS12=	-0.1622	-0.0687	-0.0046	0.0557	0.1297
13	CPS13=	-0.1991	-0.1024	-0.0350	0.0279	0.1015
14	CPS14=	-0.2167	-0.1199	-0.0513	0.0113	0.0832
15	CPS15=	-0.2477	-0.1507	-0.0809	-0.0223	0.0458
16	CPS16=	-0.2707	-0.1765	-0.1080	-0.0509	0.0105
17	CPS17=	-0.2958	-0.2053	-0.1418	-0.0896	-0.0319
18	CPS18=	-0.3164	-0.1894	-0.1064	-0.0783	-0.0473
19	CPS19=	-0.0671	-0.0012	0.0058	0.0034	-0.0011
20	CPS20=	0.0506	0.0471	0.0346	0.0383	0.0308
21	CPS21=	0.0640	0.0529	0.0451	0.0458	0.0437
22	CPS22=	0.0607	0.0421	0.0359	0.0366	0.0408
23	CPS23=	0.0464	0.0313	0.0284	0.0292	0.0371
24	CPS24=	0.0309	0.0200	0.0188	0.0209	0.0288
25	CPS25=	-0.0076	-0.0150	-0.0163	-0.0148	-0.0099

TEST	PART	M	PT	P	REALG-6	VT	Q	TT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	14	0.974	1451.1	740.0	2.994	1026.0	524.58	90.30	4 PCT	7	701	4-12-77	TRANSONIC 16T

ALFWN	CN	CY	CA	CLM	CLN	CLL	CAF	CAB
-5.15	-0.5558	-0.0009	0.0330	0.0235	-0.0004	0.0037	0.0252	0.0078
-2.32	-0.2225	0.0002	0.0367	0.0031	-0.0000	0.0032	0.0279	0.0089
-0.07	0.0101	0.0007	0.0379	0.0016	0.0001	0.0024	0.0289	0.0089
2.19	0.2486	0.0015	0.0350	0.0002	0.0004	0.0020	0.0260	0.0090
5.03	0.5889	0.0026	0.0292	-0.0214	0.0004	0.0022	0.0201	0.0091

TEST	PART	M	PT	P	REX10-6	VK	Q	TT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-465	14	0.474	1451.1	790.0	2.994	1026.6	524.5R	90.30	4 PCT	7	701	4-12-77	TRANSONIC 16T

PRESSURE COEFFICIENTS CPS=(PS-P)/Q

ORIFICE		ALFWM=-5.15	ALFWM=-2.32	ALFWM=-0.07	ALFWM= 2.19	ALFWM= 5.03
1	CPS 1=	0.1474	0.1007	0.0678	0.0355	0.0025
2	CPS 2=	0.0544	0.0116	-0.0170	-0.0472	-0.0745
3	CPS 3=	-0.0361	-0.0742	-0.0960	-0.1150	-0.1412
4	CPS 4=	-0.1065	-0.1452	-0.1640	-0.1832	-0.1963
5	CPS 5=	-0.1731	-0.2015	-0.2160	-0.2268	-0.2375
6	CPS 6=	-0.2249	-0.2470	-0.2503	-0.2461	-0.1502
7	CPS 7=	0.0005	-0.1013	-0.1242	-0.0447	0.0227
8	CPS 8=	0.0507	0.0507	0.0416	0.0416	0.0515
9	CPS 9=	0.1165	0.0773	0.0587	0.0433	0.0363
10	CPS10=	0.1535	0.1028	0.0604	0.0203	-0.0131
11	CPS11=	0.1050	0.0662	0.0542	-0.0061	-0.0761
12	CPS12=	0.1498	0.0749	0.0199	-0.0418	-0.1300
13	CPS13=	0.1210	0.0478	-0.0109	-0.0743	-0.1683
14	CPS14=	0.1017	0.0297	-0.0285	-0.0953	-0.1881
15	CPS15=	0.0616	-0.0064	-0.0645	-0.1282	-0.2206
16	CPS16=	0.0285	-0.0364	-0.0882	-0.1549	-0.2437
17	CPS17=	-0.0201	-0.0756	-0.1247	-0.1845	-0.2700
18	CPS18=	-0.0723	-0.1226	-0.1689	-0.2227	-0.3013
19	CPS19=	-0.1134	-0.1571	-0.1926	-0.2470	-0.3355
20	CPS20=	-0.1196	-0.0228	-0.0137	-0.0344	-0.2499
21	CPS21=	-0.0122	0.0429	0.0526	0.0552	0.0133
22	CPS22=	0.0178	0.0478	0.0555	0.0634	0.0598
23	CPS23=	0.0355	0.0445	0.0469	0.0536	0.0664
24	CPS24=	0.0371	0.0334	0.0334	0.0371	0.0548
25	CPS25=	0.0042	-0.0048	-0.0051	-0.0015	0.0133

TEST	PART	M	PT	P	REALU=6	VA	U	TT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	15	1.001	1444.1	762.3	3.001	1049.6	534.31	90.50	4 PCT	7	701	4-12-77	TRANSONIC 1ST

ALPHA	CN	CY	CA	CLM	CLN	CLL	CAF	CAB
5.04	0.5906	0.0026	0.0382	-0.0252	0.0004	0.0022	0.0235	0.0147
2.19	0.2528	0.0015	0.0416	-0.0059	0.0003	0.0022	0.0298	0.0118
-0.06	0.0110	0.0008	0.0451	0.0013	0.0001	0.0024	0.0331	0.0119
-2.32	-0.2286	0.0001	0.0462	0.0090	-0.0000	0.0031	0.0332	0.0130
-5.15	-0.5552	-0.0007	0.0429	0.0270	-0.0003	0.0038	0.0282	0.0147

TEST	PART	P	PI	P	REALG-6	VM	Q	TT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	15	1.001	1444.1	762.3	3.001	1049.6	534.31	90.50	4 PCT	7	701	4-12-77	TRANSONIC 16T

PRESSURE COEFFICIENTS CPS=(PS-P)/Q

ORIFICE		ALFWM= 5.04	ALFWM= 2.19	ALFWM=-0.06	ALFWM=-2.32	ALFWM=-5.15
1	CPS 1=	0.0281	0.0546	0.0857	0.1220	0.1665
2	CPS 2=	-0.0443	-0.0176	-0.0050	0.0395	0.0788
3	CPS 3=	-0.1134	-0.0914	-0.0686	-0.0450	-0.0082
4	CPS 4=	-0.1690	-0.1578	-0.1407	-0.1227	-0.0906
5	CPS 5=	-0.2112	-0.2061	-0.1945	-0.1773	-0.1557
6	CPS 6=	-0.2185	-0.2296	-0.2322	-0.2234	-0.2119
7	CPS 7=	-0.1792	-0.2016	-0.2079	-0.2096	-0.2042
8	CPS 8=	-0.0838	-0.1226	-0.1378	-0.1360	-0.1323
9	CPS 9=	0.0517	-0.0249	-0.0536	-0.0248	0.1131
10	CPS10=	0.0192	-0.0177	0.0367	0.0909	0.1738
11	CPS11=	-0.0417	-0.0022	0.0440	0.1038	0.1919
12	CPS12=	-0.0923	-0.0293	0.0270	0.0917	0.1798
13	CPS13=	-0.1309	-0.0614	-0.0005	0.0666	0.1523
14	CPS14=	-0.1598	-0.0776	-0.0167	0.0501	0.1329
15	CPS15=	-0.1808	-0.1047	-0.0453	0.0189	0.0961
16	CPS16=	-0.2055	-0.1323	-0.0718	-0.0094	0.0622
17	CPS17=	-0.2315	-0.1615	-0.1026	-0.0486	0.0157
18	CPS18=	-0.2519	-0.1931	-0.1407	-0.0899	-0.0352
19	CPS19=	-0.2956	-0.2296	-0.1795	-0.1311	-0.0773
20	CPS20=	-0.3244	-0.2456	-0.1925	-0.1570	-0.1100
21	CPS21=	-0.1540	-0.0962	-0.0779	-0.0814	-0.0745
22	CPS22=	-0.0296	-0.0156	-0.0232	-0.0414	-0.0591
23	CPS23=	-0.0010	0.0003	-0.0054	-0.0143	-0.0357
24	CPS24=	-0.0023	-0.0014	-0.0038	-0.0106	-0.0219
25	CPS25=	-0.0311	-0.0261	-0.0257	-0.0296	-0.0369

TEST	PART	M	PT	P	REALD-6 VM	Q	TT	WING	RUN SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	16	1.024	1433.9	736.2	2.594	1070.6 540.65	90.90	4 PCT	7 701	4-12-77	TRANSONIC 16T

ALPHA	CN	CY	CA	CLM	CLN	CLL	CAF	CAB
-5.15	-0.5500	-0.0004	0.0456	0.0294	-0.0003	0.0038	0.0296	0.0160
-2.33	-0.2266	0.0001	0.0485	0.0104	0.0001	0.0027	0.0333	0.0155
-0.07	0.0108	0.0008	0.0500	0.0017	0.0001	0.0027	0.0344	0.0156
2.19	0.2510	0.0016	0.0477	-0.0068	0.0004	0.0017	0.0316	0.0160
5.06	0.5867	0.0024	0.0427	-0.0273	0.0005	0.0018	0.0251	0.0176

TEST	PART	P	PT	P	MACH NO	VA	Q	TT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	16	1.024	1433.9	736.2	2.994	1070.6	540.65	90.90	4 PC1	7	701	4-12-77	TRANSONIC 16T

PRESSURE COEFFICIENTS CPS=(PS-P)/Q

ORIFICE		ALFAM=-5.15	ALFAM=-2.33	ALFWM=-0.07	ALFWM= 2.19	ALFWM= 5.06
1	CPS 1=	0.1984	0.1537	0.1229	0.0916	0.0535
2	CPS 2=	0.1054	0.0663	0.0391	0.0143	-0.0152
3	CPS 3=	0.0196	-0.0128	-0.0347	-0.0570	-0.0843
4	CPS 4=	-0.0569	-0.0866	-0.1045	-0.1199	-0.1406
5	CPS 5=	-0.1215	-0.1449	-0.1592	-0.1753	-0.1838
6	CPS 6=	-0.1804	-0.1940	-0.1999	-0.1996	-0.1998
7	CPS 7=	-0.1792	-0.1844	-0.1835	-0.1741	-0.1662
8	CPS 8=	-0.1203	-0.1221	-0.1189	-0.1080	-0.0811
9	CPS 9=	0.0677	-0.0658	-0.0710	-0.0510	0.0176
10	CPS10=	0.1763	0.0934	0.0431	0.0231	0.0276
11	CPS11=	0.2096	0.1214	0.0666	0.0211	-0.0244
12	CPS12=	0.1988	0.1126	0.0499	-0.0060	-0.0735
13	CPS13=	0.1763	0.0926	0.0307	-0.0299	-0.1059
14	CPS14=	0.1587	0.0787	0.0164	-0.0442	-0.1235
15	CPS15=	0.1414	0.0471	-0.0164	-0.0757	-0.1542
16	CPS16=	0.0898	0.0208	-0.0399	-0.0984	-0.1750
17	CPS17=	0.0461	-0.0147	-0.0674	-0.1251	-0.1998
18	CPS18=	-0.0044	-0.0563	-0.1073	-0.1586	-0.2293
19	CPS19=	-0.0457	-0.0954	-0.1448	-0.1944	-0.2589
20	CPS20=	-0.0810	-0.1249	-0.1632	-0.2144	-0.2881
21	CPS21=	-0.0565	-0.0602	-0.0650	-0.0928	-0.1410
22	CPS22=	-0.0425	-0.0239	-0.0112	-0.0108	-0.0196
23	CPS23=	-0.0213	0.0072	0.0148	0.0143	0.0156
24	CPS24=	-0.0096	0.0104	0.0152	0.0135	0.0136
25	CPS25=	-0.0209	-0.0096	-0.0064	-0.0104	-0.0128

TEST	PART	M	PT	P	REX10-6	VM	Q	TT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	17	1.051	1425.1	710.3	3.000	1093.3	549.06	90.80	4 PCT	7	701	4-12-77	TRANSONIC 16T

ALFWM	CN	CY	CA	CLB	CLN	CLL	CAF	CAB
5.06	0.5775	0.0024	0.0445	-0.0284	0.0005	0.0019	0.0261	0.0184
2.21	0.2564	0.0013	0.0492	-0.0087	0.0004	0.0021	0.0318	0.0174
-0.07	0.0115	0.0006	0.0520	0.0005	0.0002	0.0023	0.0350	0.0170
-2.31	-0.2214	-0.0002	0.0502	0.0128	0.0001	0.0031	0.0339	0.0163
-5.16	-0.5454	-0.0010	0.0474	0.0340	-0.0002	0.0039	0.0310	0.0164

TEST	PART	M	PT	P	RE*10-6	VM	Q	TT	WIND	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	17	1.051	1420.1	710.3	3.000	1043.3	549.66	90.80	4 PCT	7	701	4-12-77	TRANSONIC 16T

PRESSURE COEFFICIENTS CPS=(PS-P)/Q

ORIFICE		ALFWM= 5.06	ALFWM= 2.21	ALFWM=-0.07	ALFWM=-2.31	ALFWM=-5.16
1	CPS 1=	0.0525	0.0861	0.1182	0.1528	0.1999
2	CPS 2=	-0.0055	0.0202	0.0402	0.0743	0.1169
3	CPS 3=	-0.0670	-0.0497	-0.0279	-0.0027	0.0312
4	CPS 4=	-0.1231	-0.1144	-0.0975	-0.0789	-0.0495
5	CPS 5=	-0.1649	-0.1609	-0.1487	-0.1353	-0.1120
6	CPS 6=	-0.1795	-0.1897	-0.1845	-0.1819	-0.1671
7	CPS 7=	-0.1534	-0.1645	-0.1684	-0.1705	-0.1687
8	CPS 8=	-0.0903	-0.1053	-0.1089	-0.1128	-0.1105
9	CPS 9=	-0.0363	-0.0702	-0.0786	-0.0876	-0.0865
10	CPS10=	0.0040	-0.0134	-0.0046	0.0356	0.1511
11	CPS11=	-0.0296	0.0004	0.0461	0.0995	0.1956
12	CPS12=	-0.0741	-0.0173	0.0426	0.1047	0.1991
13	CPS13=	-0.1049	-0.0422	0.0201	0.0865	0.1771
14	CPS14=	-0.1191	-0.0560	0.0064	0.0747	0.1622
15	CPS15=	-0.1412	-0.0777	-0.0168	0.0502	0.1327
16	CPS16=	-0.1574	-0.1009	-0.0416	0.0301	0.1035
17	CPS17=	-0.1791	-0.1230	-0.0680	-0.0007	0.0642
18	CPS18=	-0.2043	-0.1447	-0.0967	-0.0374	0.0209
19	CPS19=	-0.2327	-0.1751	-0.1286	-0.0730	-0.0192
20	CPS20=	-0.2655	-0.1984	-0.1511	-0.1073	-0.0597
21	CPS21=	-0.1613	-0.0970	-0.0700	-0.0619	-0.0491
22	CPS22=	-0.0410	-0.0169	-0.0157	-0.0355	-0.0385
23	CPS23=	0.0142	0.0150	0.0131	-0.0074	-0.0184
24	CPS24=	0.0162	0.0131	0.0139	-0.0031	-0.0129
25	CPS25=	-0.0106	-0.0082	-0.0074	-0.0193	-0.0223

TEST	PART	M	PT	P	REX10-6	VM	N	TT	WING	RUN	SURVEY	DATE
TF-465	18	1.100	1413.5	661.7	3.005	1133.2	560.84	89.20	4 PCT	7	701	4-12-77

AEDC PROPULSION WIND TUNNEL
TRANSONIC 16T

ALFWM	CN	CY	CA	CLM	CLN	CLL	CAF	CAH
-5.16	-0.5387	-0.0010	0.0475	0.0429	-0.0008	0.0039	0.0315	0.0160
-2.33	-0.2296	0.0004	0.0500	0.0177	-0.0007	0.0033	0.0341	0.0159
-0.08	0.0046	0.0009	0.0510	0.0014	-0.0006	0.0027	0.0347	0.0163
2.19	0.2471	0.0013	0.0499	-0.0146	-0.0003	0.0022	0.0327	0.0172
5.02	0.5569	0.0025	0.0462	-0.0373	-0.0003	0.0012	0.0281	0.0182

TEST	PART	M	PT	P	RE/10-6	VM	Q	TT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	18	1.100	1413.5	661.7	3.005	1133.2	560.84	89.20	4 PCT	7	701	4-12-77	TRANSONIC 16T

PRESSURE COEFFICIENTS CPS=(PS-P)/Q

ORIFICE		ALPWM=-5.16	ALPWM=-2.33	ALPWM=-0.08	ALPWM= 2.19	ALPWM= 5.02
1	CPS 1=	0.2151	0.1770	0.1174	0.0797	0.0529
2	CPS 2=	0.1367	0.1011	0.0609	0.0407	0.0117
3	CPS 3=	0.0594	0.0321	0.0017	-0.0191	-0.0426
4	CPS 4=	-0.0190	-0.0449	-0.0639	-0.0790	-0.0957
5	CPS 5=	-0.0428	-0.0676	-0.1160	-0.1276	-0.1362
6	CPS 6=	-0.1484	-0.1512	-0.1573	-0.1624	-0.1601
7	CPS 7=	-0.1466	-0.1523	-0.1472	-0.1481	-0.1369
8	CPS 8=	-0.1035	-0.1042	-0.0975	-0.0971	-0.0842
9	CPS 9=	-0.0967	-0.0857	-0.0801	-0.0728	-0.0561
10	CPS10=	-0.0560	-0.0414	-0.0431	-0.0369	-0.0241
11	CPS11=	0.1816	0.0826	0.0225	-0.0076	-0.0372
12	CPS12=	0.2016	0.1057	0.0349	-0.0130	-0.0715
13	CPS13=	0.1915	0.1076	0.0330	-0.0257	-0.0934
14	CPS14=	0.1835	0.1069	0.0341	-0.0323	-0.1042
15	CPS15=	0.1586	0.0791	0.0110	-0.0570	-0.1285
16	CPS16=	0.1317	0.0572	-0.0110	-0.0755	-0.1416
17	CPS17=	0.0975	0.0314	-0.0373	-0.0987	-0.1608
18	CPS18=	0.0571	-0.0079	-0.0701	-0.1269	-0.1866
19	CPS19=	0.0183	-0.0449	-0.1032	-0.1547	-0.2097
20	CPS20=	-0.0244	-0.0842	-0.1387	-0.1871	-0.2425
21	CPS21=	-0.0374	-0.0722	-0.1052	-0.1381	-0.1916
22	CPS22=	-0.0344	-0.0368	-0.0415	-0.0458	-0.0676
23	CPS23=	-0.0374	-0.0268	-0.0091	0.0144	0.0133
24	CPS24=	-0.0194	-0.0006	0.0129	0.0260	0.0287
25	CPS25=	-0.0244	-0.0102	0.0032	0.0060	0.0067

TEST	PART	M	P1	P	MEAIO-6	V4	Q	IT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-665	19	1.151	1408.9	618.6	3.007	1175.5	574.03	89.70	6 PCT	7	701	4-12-77	TRANSONIC 16T

ALFBM	CN	CY	CA	CLM	CLN	CLL	CAP	CAB
5.01	0.5395	0.0032	0.0466	-0.0425	0.0003	0.0021	0.0289	0.0179
2.20	0.2396	0.0025	0.0492	-0.0153	0.0003	0.0025	0.0325	0.0166
-0.08	0.0077	0.0016	0.0514	0.0029	0.0003	0.0029	0.0345	0.0169
-2.31	-0.2142	0.0011	0.0499	0.0222	0.0001	0.0032	0.0335	0.0163
-5.12	-0.5064	0.0004	0.0474	0.0481	-0.0002	0.0033	0.0314	0.0160

TEST	PART	M	PT	P	REX10-6	VM	Q	TT	WING	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-465	19	1.151	1480.9	614.6	3.007	1175.5	574.03	89.70	4 PCT	7	701	4-12-77	TRANSONIC 16T

PRESSURE COEFFICIENTS CPS=(PS-P)/Q

ORIFICE		ALFWM= 5.01	ALFWM= 2.20	ALFWM=-0.08	ALFWM=-2.31	ALFWM=-5.12
1	CPS 1=	0.0841	0.0901	0.1135	0.1378	0.1794
2	CPS 2=	0.0191	0.0406	0.0693	0.1009	0.1456
3	CPS 3=	-0.0343	-0.0190	0.0044	0.0323	0.0707
4	CPS 4=	-0.0913	-0.0813	-0.0638	-0.0446	-0.0114
5	CPS 5=	-0.1334	-0.1228	-0.1136	-0.1000	-0.0637
6	CPS 6=	-0.1486	-0.1549	-0.1529	-0.1452	-0.1284
7	CPS 7=	-0.1280	-0.1417	-0.1408	-0.1384	-0.1340
8	CPS 8=	-0.0780	-0.0960	-0.0951	-0.0947	-0.0934
9	CPS 9=	-0.0557	-0.0741.	-0.0789	-0.0804	-0.0825
10	CPS10=	-0.0323	-0.0382	-0.0484	-0.0664	-0.0629
11	CPS11=	-0.0364	-0.0137	0.0104	0.0334	0.0906
12	CPS12=	-0.0067	-0.0156	0.0346	0.0843	0.1783
13	CPS13=	-0.0926	-0.0371	0.0274	0.0794	0.1783
14	CPS14=	-0.1000	-0.0466	0.0225	0.0805	0.1734
15	CPS15=	-0.1155	-0.0590	0.0053	0.0689	0.1520
16	CPS16=	-0.1234	-0.0737	-0.0103	0.0512	0.1328
17	CPS17=	-0.1374	-0.0903	-0.0288	0.0293	0.1109
18	CPS18=	-0.1537	-0.1047	-0.0461	0.0112	0.0842
19	CPS19=	-0.1730	-0.1251	-0.0695	-0.0171	0.0515
20	CPS20=	-0.2044	-0.1553	-0.1031	-0.0547	0.0127
21	CPS21=	-0.1722	-0.1288	-0.0914	-0.0562	-0.0027
22	CPS22=	-0.0512	-0.0413	-0.0239	-0.0118	0.0026
23	CPS23=	0.0222	0.0101	0.0078	0.0018	-0.0087
24	CPS24=	0.0433	0.0448	0.0339	0.0169	-0.0016
25	CPS25=	0.0191	0.0331	0.0271	0.0142	-0.0095

TEST	PART	REYNO-6	ALPHA	WIND	Y	Z	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	59	3.006	-0.01	4 PCT	4.00	-1.02	4	20R	4-13-77	TRANSONIC 16T

INNER FLOWFIELD SURVEY SUMMARY

POINT	GP	X	M	VP	PT	Q	TT	HL	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	60	18.953	0.926	991.61	1515.4	522.5	100.4	0.894	0.97	1.000	0.058	0.971	0.008	0.012	0.72	0.49
2	60	18.668	0.925	991.38	1515.5	522.4	100.3	0.889	0.97	1.001	0.068	0.966	0.008	0.015	0.91	0.48
3	60	18.341	0.925	991.41	1515.9	522.5	100.4	0.888	0.97	1.001	0.070	0.965	0.008	0.020	1.17	0.46
4	60	18.000	0.926	991.84	1515.5	522.5	100.6	0.894	0.97	1.000	0.059	0.970	0.005	0.028	1.62	0.31
5	60	17.654	0.926	991.72	1513.9	522.0	100.5	0.916	0.99	1.001	0.018	0.991	0.011	0.037	2.16	0.64
6	60	17.331	0.925	991.18	1513.1	521.4	100.5	0.939	1.01	1.000	-0.026	1.012	0.009	0.042	2.37	0.49
7	60	16.990	0.925	991.31	1512.8	521.4	100.4	1.004	1.07	1.000	-0.142	1.071	0.004	0.038	2.03	0.23
8	60	16.644	0.926	991.61	1513.0	521.6	100.4	1.008	1.07	0.999	-0.150	1.074	0.001	0.025	1.31	0.04
9	60	16.344	0.925	990.52	1512.9	521.1	100.1	1.006	1.07	1.002	-0.146	1.074	-0.000	0.014	0.76	-0.01
10	60	16.002	0.925	991.41	1513.7	521.7	100.6	0.988	1.06	1.000	-0.114	1.057	-0.001	0.006	0.30	-0.05
11	60	15.665	0.925	991.40	1514.0	521.9	100.4	0.964	1.05	1.000	-0.107	1.053	-0.004	-0.003	-0.15	-0.23
12	60	15.337	0.925	990.83	1513.8	521.6	100.1	0.969	1.04	1.001	-0.080	1.040	-0.002	-0.008	-0.45	-0.09
13	60	14.995	0.925	991.37	1514.3	521.9	100.5	0.965	1.04	1.001	-0.070	1.036	-0.001	-0.014	-0.79	-0.05
14	60	14.671	0.925	991.15	1514.6	521.9	100.5	0.940	1.01	1.000	-0.028	1.014	0.001	-0.020	-1.15	0.06
15	60	14.315	0.925	990.89	1514.8	521.8	100.4	0.935	1.01	0.998	-0.022	1.009	0.004	-0.031	-1.74	0.20
16	60	14.001	0.924	990.20	1514.2	521.4	100.3	0.933	1.01	1.000	-0.015	1.007	0.005	-0.030	-1.70	0.31
17	60	13.654	0.925	991.31	1515.9	522.5	100.4	0.927	1.00	1.001	-0.002	1.001	0.011	-0.035	-2.03	0.62
18	60	13.340	0.925	991.00	1515.2	521.9	100.6	0.917	0.99	1.000	0.015	0.992	0.016	-0.037	-2.16	0.95
20	60	13.002	0.925	991.16	1514.6	521.9	100.4	0.912	0.99	1.001	0.025	0.987	0.022	-0.036	-2.09	1.30
21	60	12.663	0.926	991.72	1513.9	522.0	100.5	0.906	0.98	1.000	0.036	0.981	0.030	-0.030	-1.74	1.72
22	60	12.337	0.925	991.27	1512.9	521.4	100.4	0.903	0.98	1.001	0.042	0.979	0.032	-0.023	-1.37	1.85
23	60	12.006	0.925	991.51	1513.0	521.6	100.4	0.902	0.98	0.999	0.042	0.978	0.031	-0.018	-1.03	1.82
24	60	11.648	0.925	991.15	1512.0	521.0	100.4	0.903	0.98	1.000	0.041	0.979	0.028	-0.010	-0.58	1.64
25	60	11.341	0.925	990.74	1513.3	521.4	100.1	0.905	0.98	1.001	0.038	0.981	0.025	-0.008	-0.48	1.46
26	60	11.004	0.925	990.89	1517.7	522.9	100.3	0.907	0.98	1.001	0.034	0.983	0.022	-0.005	-0.32	1.25
27	60	10.648	0.925	991.05	1518.7	523.4	100.1	0.909	0.98	1.000	0.032	0.984	0.019	-0.004	-0.20	1.09
28	60	10.337	0.926	991.75	1514.2	523.6	100.2	0.910	0.99	1.000	0.029	0.985	0.018	-0.002	-0.09	1.02
29	60	9.972	0.926	991.91	1516.8	523.1	100.4	0.914	0.99	1.000	0.023	0.989	0.016	-0.000	-0.00	0.94

TEST	PART	REX10-6	ALFHN	PHIHN	Y	Z	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	77	2.990	5.05 4 PCT		4.00	-0.86	4	208	4-14-77	TRANSONIC 16T

INNER FLOWFIELD SURVEY SUMMARY

POINT	GP	X	R	VR	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
5	1	19.019	0.927	983.58	1487.1	513.2	90.4	0.901	0.98	1.001	0.049	0.974	0.060	0.035	2.03	3.50
7	2	18.649	0.926	982.69	1469.1	513.5	90.2	0.891	0.97	1.001	0.065	0.965	0.060	0.038	2.25	3.56
9	3	18.347	0.925	982.28	1491.1	513.9	90.4	0.890	0.97	1.001	0.067	0.964	0.066	0.042	2.52	3.93
11	4	18.014	0.926	907.85	1483.1	511.8	90.0	0.888	0.96	0.999	0.071	0.961	0.060	0.049	2.92	3.58
13	5	17.688	0.925	982.30	1470.9	507.0	90.1	0.905	0.98	0.999	0.035	0.978	0.060	0.058	3.37	3.54
15	6	17.356	0.924	991.08	1460.7	502.9	90.0	0.934	1.01	0.993	-0.019	1.005	0.057	0.062	3.52	3.27
17	7	17.022	0.924	980.74	1454.3	500.5	90.0	0.973	1.04	1.000	-0.040	1.042	0.051	0.055	3.02	2.80
19	8	16.687	0.924	1118.07	1452.6	500.1	254.1	0.970	1.04	1.000	-0.043	1.040	0.045	0.041	2.27	2.47
21	9	16.353	0.925	982.20	1455.5	501.6	90.3	0.938	1.01	1.001	-0.022	1.010	0.044	0.027	1.52	2.51
23	10	16.028	0.925	982.24	1457.8	502.4	90.3	0.927	1.00	1.001	-0.003	1.001	0.045	0.020	1.12	2.59
25	11	15.679	0.924	980.88	1466.2	504.5	90.2	0.922	1.00	1.001	0.006	0.997	0.047	0.013	0.77	2.71
27	12	15.345	0.926	982.57	1474.5	508.3	90.3	0.912	0.99	1.001	0.027	0.986	0.051	0.009	0.53	2.94
29	13	15.018	0.925	982.37	1478.6	509.6	90.3	0.901	0.98	1.001	0.046	0.976	0.054	0.007	0.38	3.16
31	14	14.689	0.926	983.17	1484.3	512.1	90.3	0.889	0.97	1.001	0.070	0.964	0.060	0.000	0.02	3.55
33	15	14.358	0.925	982.43	1484.9	511.7	90.5	0.877	0.95	1.000	0.091	0.952	0.065	0.002	0.14	3.92
35	16	14.027	0.925	982.30	1483.1	511.1	90.3	0.860	0.94	1.000	0.122	0.936	0.071	0.002	0.11	4.33
37	17	13.674	0.925	981.80	1481.7	510.4	90.3	0.838	0.92	1.000	0.162	0.915	0.081	0.001	0.08	5.07
39	18	13.350	0.925	982.00	1480.7	510.1	90.4	0.823	0.90	1.001	0.191	0.899	0.094	0.013	0.83	5.97
41	19	13.020	0.925	982.24	1479.6	509.8	90.5	0.811	0.89	1.000	0.213	0.885	0.107	0.032	2.06	6.92
43	20	12.686	0.925	981.98	1478.1	509.2	90.4	0.809	0.89	1.000	0.218	0.879	0.122	0.062	4.04	7.87
45	21	12.352	0.925	981.98	1477.4	509.0	90.3	0.828	0.91	1.000	0.180	0.898	0.109	0.091	5.77	6.94
47	22	12.029	0.925	981.88	1476.9	508.7	90.4	0.848	0.93	0.999	0.142	0.917	0.091	0.108	6.75	5.67
49	23	11.693	0.925	982.15	1476.0	508.5	90.4	0.868	0.95	1.000	0.105	0.937	0.077	0.113	6.88	4.73
51	24	11.365	0.925	982.28	1475.0	508.4	90.2	0.871	0.95	0.996	0.095	0.941	0.060	0.112	6.81	3.68
53	25	11.013	0.925	982.30	1474.2	508.0	90.4	0.887	0.96	1.000	0.070	0.957	0.049	0.113	6.73	2.96

TEST	PART	RE/10-6	ALPHA	WING	Y	Z	MACH	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-465	92	3.005	-5.07 & PCT		4.00	-1.11	4	20A	4-14-77	TRANSONIC 16T

INNER FLOWFIELD SURVEY SUMMARY

POINT	GP	X	H	Y	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
5	1	19.011	0.924	981.96	1479.8	509.3	90.7	0.889	0.97	0.996	0.059	0.966	-0.036	0.005	0.30	-2.16
7	2	18.685	0.924	981.92	1480.1	509.4	90.9	0.882	0.96	0.996	0.071	0.960	-0.037	0.009	0.54	-2.23
9	3	18.344	0.924	982.26	1480.4	509.4	91.1	0.882	0.96	0.996	0.072	0.959	-0.037	0.014	0.84	-2.22
11	4	18.002	0.925	982.32	1480.7	510.3	91.1	0.893	0.97	0.996	0.053	0.969	-0.038	0.021	1.26	-2.22
13	5	17.676	0.924	981.86	1480.2	509.5	91.0	0.907	0.98	0.996	0.026	0.953	-0.037	0.029	1.68	-2.17
15	6	17.350	0.924	981.94	1480.0	509.5	91.0	0.925	1.00	0.997	-0.006	0.999	-0.040	0.031	1.80	-2.31
17	7	17.012	0.924	981.98	1480.4	509.6	91.0	0.936	1.01	0.996	-0.028	1.010	-0.035	0.025	1.43	-2.00
19	8	16.665	0.924	982.19	1480.1	509.7	91.0	1.074	1.13	0.997	-0.271	1.133	-0.033	0.007	0.35	-1.65
21	9	16.348	0.924	982.06	1479.5	509.4	90.9	1.125	1.18	0.997	-0.358	1.176	-0.037	0.001	0.04	-1.82
23	10	16.021	0.924	982.08	1479.9	509.5	91.0	1.114	1.17	0.998	-0.339	1.167	-0.044	-0.006	-0.32	-2.16
25	11	15.687	0.924	982.31	1480.0	509.6	91.2	1.110	1.16	0.998	-0.331	1.162	-0.048	-0.013	-0.63	-2.37
27	12	15.335	0.925	982.64	1480.4	509.9	91.2	1.103	1.16	0.999	-0.318	1.156	-0.052	-0.021	-1.05	-2.59
29	13	15.020	0.925	982.49	1479.9	509.9	90.8	1.095	1.15	0.999	-0.303	1.149	-0.055	-0.028	-1.40	-2.74
31	14	14.682	0.924	981.63	1479.4	509.2	90.7	1.089	1.15	0.998	-0.297	1.145	-0.061	-0.034	-1.70	-3.03
33	15	14.350	0.924	981.76	1480.0	509.4	90.9	1.088	1.15	0.998	-0.295	1.143	-0.066	-0.041	-2.05	-3.42
35	16	14.002	0.924	982.36	1479.9	509.6	91.2	1.078	1.14	0.998	-0.277	1.133	-0.073	-0.052	-2.60	-3.67
37	17	13.685	0.925	982.55	1479.7	509.7	91.0	1.070	1.13	0.996	-0.265	1.125	-0.083	-0.063	-3.21	-4.22
39	18	13.344	0.924	982.01	1479.6	509.4	91.0	1.083	1.14	0.995	-0.291	1.134	-0.099	-0.088	-4.45	-5.00
41	19	13.022	0.924	981.46	1478.8	508.8	91.0	1.118	1.17	0.998	-0.346	1.159	-0.099	-0.136	-6.69	-4.88
43	20	12.670	0.924	981.27	1478.1	508.5	90.8	1.067	1.13	0.999	-0.259	1.114	-0.072	-0.166	-8.50	-3.68
45	21	12.359	0.924	981.67	1478.5	508.8	91.0	0.989	1.06	0.999	-0.120	1.045	-0.036	-0.170	-9.26	-1.99
47	22	12.026	0.924	982.00	1479.6	509.3	91.1	0.932	1.01	1.000	-0.015	0.995	-0.005	-0.158	-9.01	-0.26
49	23	11.685	0.924	981.98	1481.6	510.1	91.0	0.918	0.99	1.000	0.011	0.984	0.012	-0.142	-8.23	0.67
51	24	11.352	0.924	982.07	1483.0	510.5	91.2	0.913	0.99	1.000	0.021	0.981	0.014	-0.130	-7.54	0.83
53	25	10.998	0.925	982.41	1484.6	511.3	91.1	0.914	0.99	1.000	0.021	0.982	0.016	-0.121	-7.03	0.96

TEST	PART	REX10-6	ALFHM	WING	Y	Z	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	62	3.007	-0.01	4 PCT	-4.00	-0.99	4	212	4-13-77	TRANSONIC 16T

INNER FLOWFIELD SURVEY SUMMARY

POINT	GP	X	Y	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPI.	UL/VM	VL/VM	WL/VM	AAL	SWL
1	0	10.995	0.926	992.10	1517.5	523.4	100.6	0.908	0.98	1.000	0.034	0.983	-0.003	-0.003	-0.19	-0.15
2	0	12.351	0.925	991.22	1514.5	522.0	100.2	0.899	0.98	1.000	0.050	0.975	-0.012	-0.017	-0.98	-0.68
3	0	13.655	0.925	990.64	1514.0	521.5	100.3	0.914	0.99	1.000	0.021	0.990	0.007	-0.021	-1.20	0.41
4	0	14.982	0.925	990.70	1517.3	522.8	99.9	0.938	1.01	1.000	-0.025	1.012	0.022	-0.012	-0.68	1.26
5	0	16.312	0.925	990.68	1512.2	520.8	100.4	0.993	1.06	1.000	-0.125	1.062	0.025	0.012	0.64	1.35
6	0	17.323	0.926	990.10	1514.7	521.6	99.9	0.977	1.05	1.001	-0.094	1.047	0.020	0.022	1.18	1.09
7	0	19.005	0.926	992.04	1516.5	523.2	100.2	0.900	0.98	1.001	0.049	0.976	0.014	0.001	0.03	0.84

TEST	PART	REX10-6	ALPHA	WING	YI	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	46	2.993	-0.00 & PCT		-0.02	-14.18	5	401	4-13-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	VM	PT	Q	TT	AL	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
4	1	24.034	0.924	978.60	1471.5	506.7	87.0	0.915	0.99	1.000	0.017	0.991	0.006	0.005	0.28	0.33
6	2	23.533	0.926	979.97	1474.1	508.2	86.2	0.916	0.99	1.001	0.014	0.993	0.007	0.005	0.27	0.38
8	3	23.036	0.924	979.79	1462.6	510.2	84.9	0.921	1.00	1.002	0.007	0.998	0.007	0.005	0.29	0.41
10	4	22.541	0.924	981.49	1470.7	506.4	90.2	0.910	0.99	0.999	0.025	0.987	0.006	0.005	0.30	0.36
12	5	22.041	0.924	981.34	1471.2	506.3	90.7	0.919	1.00	1.001	0.010	0.995	0.006	0.005	0.31	0.37
14	6	21.535	0.926	983.15	1478.7	509.8	90.9	0.922	1.00	1.001	0.009	0.996	0.007	0.005	0.29	0.38
16	7	21.046	0.925	982.50	1477.9	509.1	91.0	0.917	0.99	1.000	0.014	0.993	0.007	0.005	0.28	0.38
18	8	20.542	0.924	981.93	1472.3	506.7	91.2	0.915	0.99	1.000	0.015	0.992	0.006	0.005	0.28	0.36
20	9	20.047	0.925	981.72	1470.1	506.3	90.3	0.918	0.99	1.001	0.014	0.994	0.006	0.003	0.20	0.35
22	10	19.546	0.925	981.74	1470.9	506.6	90.3	0.920	1.00	1.000	0.010	0.996	0.006	0.005	0.29	0.37
24	11	19.045	0.924	981.59	1472.1	506.9	90.4	0.920	1.00	1.001	0.009	0.996	0.007	0.005	0.28	0.40
26	12	18.535	0.925	982.39	1475.4	508.5	90.4	0.919	0.99	1.000	0.011	0.994	0.006	0.004	0.26	0.36
28	13	18.039	0.925	982.44	1477.2	509.1	90.4	0.921	1.00	1.001	0.009	0.996	0.006	0.005	0.28	0.36
30	14	17.545	0.926	982.72	1478.0	509.7	90.1	0.922	1.00	1.000	0.008	0.996	0.006	0.005	0.28	0.36
32	15	17.034	0.926	982.48	1476.9	509.2	90.2	0.923	1.00	1.001	0.006	0.998	0.006	0.004	0.22	0.35
34	16	16.532	0.925	982.25	1476.0	508.7	90.3	0.922	1.00	1.000	0.007	0.997	0.006	0.005	0.29	0.35
36	17	16.043	0.925	981.89	1475.0	508.2	90.2	0.922	1.00	1.000	0.006	0.997	0.007	0.004	0.21	0.38
38	18	15.540	0.925	982.21	1473.5	507.4	90.2	0.923	1.00	1.001	0.006	0.998	0.006	0.003	0.18	0.35
40	19	15.037	0.925	981.46	1473.0	507.4	89.9	0.921	1.00	1.000	0.007	0.997	0.006	0.003	0.16	0.35
42	20	14.539	0.925	981.89	1473.3	507.5	90.3	0.923	1.00	1.000	0.005	0.998	0.006	0.003	0.16	0.34
44	21	14.045	0.925	981.60	1473.1	507.4	90.0	0.923	1.00	1.000	0.003	0.999	0.006	-0.000	-0.01	0.35
46	22	13.536	0.925	981.80	1473.3	507.5	90.2	0.921	1.00	1.000	0.006	0.997	0.006	0.002	0.12	0.34
48	23	13.041	0.926	981.53	1473.0	507.3	90.2	0.921	1.00	1.001	0.007	0.997	0.006	0.002	0.10	0.37
50	24	12.538	0.925	981.78	1473.1	507.4	90.2	0.920	1.00	1.000	0.008	0.996	0.006	0.002	0.10	0.36
52	25	12.041	0.925	981.95	1473.2	507.6	90.1	0.921	1.00	1.000	0.008	0.996	0.006	0.001	0.06	0.34
54	26	11.539	0.925	981.66	1473.4	507.5	90.2	0.920	1.00	1.001	0.009	0.996	0.007	0.003	0.19	0.38
56	27	11.047	0.925	981.45	1473.4	507.5	90.3	0.921	1.00	1.000	0.008	0.996	0.006	0.001	0.09	0.33
58	28	10.538	0.925	981.82	1474.2	507.8	90.2	0.924	1.00	1.001	0.004	0.999	0.006	0.001	0.05	0.35
60	29	10.042	0.925	982.21	1474.9	508.3	90.3	0.921	1.00	1.000	0.007	0.997	0.006	0.001	0.04	0.35
62	30	9.541	0.925	982.07	1475.0	508.2	90.3	0.920	1.00	1.000	0.009	0.996	0.006	0.001	0.09	0.36
64	31	9.046	0.925	981.96	1475.8	508.5	90.1	0.916	0.99	0.999	0.014	0.991	0.007	0.001	0.04	0.38
66	32	8.540	0.926	982.71	1476.4	509.0	90.4	0.922	1.00	1.001	0.007	0.997	0.007	0.000	0.03	0.39
68	33	8.036	0.925	982.35	1475.5	508.5	90.4	0.921	1.00	1.000	0.008	0.996	0.006	0.000	0.03	0.35
70	34	7.539	0.925	982.08	1474.8	508.3	90.0	0.920	1.00	1.000	0.010	0.995	0.006	0.001	0.04	0.36
72	35	7.041	0.925	982.10	1474.7	508.1	90.3	0.920	1.00	1.000	0.010	0.995	0.006	-0.000	-0.01	0.37
74	36	6.540	0.925	981.84	1474.9	508.1	90.1	0.921	1.00	1.000	0.008	0.996	0.006	0.001	0.07	0.36
76	37	6.034	0.926	982.52	1475.6	508.7	90.2	0.922	1.00	1.000	0.008	0.996	0.006	-0.000	-0.03	0.35
78	38	5.543	0.925	982.04	1476.0	508.4	90.5	0.919	0.99	1.001	0.011	0.995	0.007	-0.001	-0.04	0.43
80	39	5.038	0.925	982.46	1475.9	508.5	90.7	0.920	1.00	1.000	0.011	0.995	0.006	-0.001	-0.06	0.35
82	40	4.543	0.925	982.60	1475.6	508.7	90.4	0.921	1.00	1.001	0.010	0.996	0.006	-0.001	-0.07	0.35
84	41	4.044	0.925	981.89	1475.0	508.2	90.2	0.917	0.99	1.001	0.015	0.993	0.005	-0.001	-0.07	0.29
86	42	3.545	0.925	982.16	1475.0	508.2	90.4	0.917	0.99	1.000	0.015	0.993	0.007	-0.001	-0.05	0.38
88	43	3.043	0.925	982.09	1474.9	508.0	90.6	0.917	0.99	1.001	0.016	0.993	0.006	-0.001	-0.06	0.37
90	44	2.542	0.925	982.59	1475.4	508.6	90.4	0.917	0.99	1.000	0.016	0.992	0.007	-0.001	-0.06	0.39
92	45	2.052	0.925	982.07	1475.0	508.2	90.4	0.916	0.99	1.000	0.017	0.992	0.006	-0.000	-0.03	0.32
94	46	1.544	0.925	981.82	1474.9	508.0	90.4	0.914	0.99	1.000	0.020	0.990	0.006	-0.000	-0.03	0.36
96	47	1.046	0.925	982.65	1475.7	508.7	90.5	0.919	0.99	1.001	0.012	0.994	0.001	0.000	0.01	0.07

TEST	PART	REX10-6	ALPHA	WING	YT	ZT	MON	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	45	3.000	0.01 & PCT		-0.02	-14.19	5	401	4-13-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XT	M	VM	PT	Q	TT	AL	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
7	48	0.541	0.924	981.79	1474.7	507.8	90.5	0.915	0.99	1.001	0.019	0.991	0.006	0.000	0.01	0.36
9	49	0.044	0.925	982.46	1475.1	508.5	90.7	0.915	0.99	1.000	0.021	0.990	0.006	0.001	0.04	0.34
11	50	-0.452	0.924	981.43	1474.9	507.5	91.4	0.913	0.99	1.000	0.021	0.990	0.006	0.001	0.05	0.37
13	51	-0.950	0.925	981.48	1471.0	506.6	90.0	0.912	0.99	1.000	0.023	0.989	0.006	0.001	0.06	0.36
15	52	-1.450	0.925	981.81	1473.0	507.3	90.4	0.915	0.99	1.000	0.019	0.991	0.006	0.002	0.10	0.33
17	53	-1.954	0.925	982.34	1476.5	508.9	90.3	0.917	0.99	1.001	0.016	0.993	0.007	0.002	0.13	0.39
19	54	-2.445	0.926	982.76	1478.4	509.9	90.1	0.921	1.00	1.001	0.010	0.995	0.007	0.009	0.51	0.37
21	55	-2.949	0.926	983.16	1479.3	510.5	90.0	0.917	0.99	1.001	0.020	0.991	0.007	0.003	0.16	0.41
23	56	-3.458	0.927	984.14	1480.7	511.4	90.3	0.918	0.99	1.001	0.019	0.991	0.006	0.003	0.19	0.37
25	57	-3.954	0.928	984.26	1480.2	511.4	90.1	0.918	0.99	1.001	0.018	0.992	0.007	0.003	0.19	0.43
27	58	-4.456	0.927	984.01	1480.1	511.2	90.1	0.918	0.99	1.001	0.018	0.992	0.006	0.003	0.20	0.37
29	59	-4.957	0.927	983.76	1480.0	511.0	90.1	0.919	0.99	1.001	0.016	0.993	0.007	0.006	0.36	0.38
31	60	-5.465	0.926	983.03	1480.1	510.6	90.2	0.917	0.99	1.001	0.018	0.992	0.007	0.003	0.20	0.38
33	61	-5.760	0.925	981.56	1478.0	509.1	90.0	0.915	0.99	1.000	0.019	0.991	0.007	0.004	0.21	0.40

TEST	PART	RE*10-6	ALPHA	PINS	YT	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	57	3.001	-0.01	4 PCT	14.16	-0.01	5	403	4-13-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XT	M	VM	PT	Q	TT	PL	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SATL
1	60	23.956	0.926	982.62	1478.5	510.2	89.7	0.923	1.00	1.000	0.007	0.997	0.012	-0.007	-0.43	0.69
2	60	23.479	0.925	981.64	1477.7	509.4	89.3	0.921	1.00	1.000	0.010	0.995	0.012	-0.005	-0.29	0.71
3	60	23.002	0.926	981.63	1476.8	509.1	89.2	0.919	0.99	1.000	0.012	0.994	0.012	-0.004	-0.21	0.68
4	60	22.525	0.925	981.60	1478.3	509.5	89.3	0.921	1.00	1.000	0.009	0.996	0.013	-0.003	-0.19	0.74
5	60	21.974	0.925	981.39	1480.0	510.0	89.4	0.921	1.00	1.001	0.009	0.996	0.012	-0.003	-0.19	0.72
6	60	21.493	0.925	981.64	1481.3	510.6	89.4	0.921	1.00	1.001	0.009	0.996	0.012	-0.004	-0.21	0.70
7	60	21.047	0.926	982.51	1482.7	511.5	89.6	0.923	1.00	1.001	0.008	0.997	0.012	-0.004	-0.22	0.71
8	60	20.537	0.926	982.43	1482.7	511.6	89.4	0.923	1.00	1.000	0.008	0.997	0.012	-0.003	-0.19	0.70
9	60	20.041	0.926	982.23	1483.2	511.6	89.4	0.922	1.00	1.001	0.009	0.996	0.013	-0.003	-0.19	0.77
10	60	19.553	0.926	982.18	1483.1	511.7	89.2	0.922	1.00	1.001	0.008	0.996	0.012	-0.003	-0.18	0.70
11	60	19.001	0.926	982.00	1483.1	511.6	89.1	0.923	1.00	1.000	0.005	0.997	0.012	-0.003	-0.16	0.67
12	60	18.472	0.926	982.04	1482.9	511.7	89.4	0.924	1.00	1.000	0.004	0.998	0.012	-0.001	-0.08	0.67
13	60	18.011	0.926	982.34	1482.9	511.5	89.5	0.927	1.00	1.001	-0.001	1.001	0.012	0.003	0.19	0.71
14	60	17.456	0.926	991.99	1513.0	521.9	100.4	0.926	1.00	1.001	0.001	1.000	0.014	-0.001	-0.07	0.78
15	60	16.904	0.926	991.97	1513.3	522.0	100.4	0.926	1.00	1.000	0.001	1.000	0.013	-0.000	-0.02	0.76
16	60	16.452	0.926	992.05	1513.1	521.9	100.4	0.925	1.00	1.000	0.001	0.999	0.016	-0.000	-0.01	0.90
17	60	16.022	0.926	992.48	1513.2	522.2	100.5	0.930	1.00	1.001	-0.005	1.003	0.020	0.000	0.02	1.13
18	60	15.542	0.927	992.53	1513.6	522.5	100.3	0.928	1.00	1.001	-0.001	1.001	0.016	0.001	0.07	0.89
19	60	14.988	0.925	991.30	1513.3	521.6	100.3	0.926	1.00	1.000	-0.000	1.000	0.015	0.000	0.01	0.88
20	60	14.544	0.925	991.11	1512.8	521.3	100.4	0.923	1.00	0.999	0.003	0.998	0.016	-0.002	-0.11	0.94
21	60	14.017	0.926	991.44	1513.7	521.9	100.2	0.924	1.00	1.000	0.003	0.999	0.017	0.000	0.01	0.96
22	60	13.522	0.926	991.64	1513.4	521.8	100.4	0.924	1.00	1.001	0.003	0.999	0.017	0.000	0.02	0.96
23	60	13.004	0.925	991.29	1513.1	521.5	100.3	0.923	1.00	1.001	0.006	0.997	0.016	0.001	0.03	0.92
24	60	12.456	0.925	991.39	1513.3	521.6	100.4	0.924	1.00	1.001	0.004	0.999	0.017	-0.000	-0.00	0.97
25	60	11.990	0.926	991.56	1513.6	521.8	100.4	0.925	1.00	1.002	0.004	0.999	0.018	0.003	0.15	1.00
26	60	11.518	0.925	991.56	1513.1	521.6	100.5	0.924	1.00	1.001	0.004	0.999	0.017	0.001	0.03	0.99
27	60	10.925	0.926	991.57	1512.3	521.9	99.5	0.924	1.00	1.000	0.005	0.998	0.018	0.001	0.07	1.05
28	60	10.532	0.927	991.95	1512.5	522.0	99.8	0.924	1.00	1.001	0.005	0.998	0.017	0.001	0.06	0.99
29	60	10.011	0.926	991.20	1512.7	521.6	99.8	0.924	1.00	1.001	0.006	0.998	0.017	0.002	0.10	0.97
30	60	9.462	0.925	990.73	1512.9	521.3	99.9	0.923	1.00	1.001	0.006	0.998	0.017	0.001	0.05	0.98

TEST	PART	MACH NO	ALPHA	WING	PT	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	58	3.003	-0.00	PC1	14.16	-0.13	5	403	4-13-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	Y	YM	PT	Q	TT	ML	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	60	8.946	0.924	990.09	1514.0	521.3	100.0	0.922	1.00	1.000	0.005	0.998	0.018	0.002	0.10	1.01
2	60	8.463	0.925	990.67	1514.7	521.4	100.1	0.921	1.00	1.000	0.006	0.997	0.018	0.002	0.12	1.01
3	60	7.943	0.924	989.77	1514.1	521.2	99.9	0.922	1.00	1.001	0.004	0.998	0.018	0.001	0.05	1.02
4	60	7.449	0.924	989.96	1514.3	521.3	100.1	0.922	1.00	1.000	0.004	0.998	0.018	0.001	0.08	1.01
5	60	6.964	0.924	990.19	1514.7	521.5	100.1	0.923	1.00	1.000	0.002	0.999	0.018	0.001	0.08	1.06
6	60	6.448	0.924	989.87	1514.3	521.3	100.0	0.923	1.00	1.001	0.004	0.998	0.018	0.002	0.09	1.06
7	60	5.978	0.924	989.98	1514.7	521.3	100.3	0.919	1.00	0.999	0.008	0.995	0.018	0.002	0.13	1.06
8	60	5.476	0.926	991.53	1511.3	521.1	100.3	0.921	1.00	1.000	0.008	0.996	0.019	0.003	0.17	1.07
10	60	5.461	0.925	990.99	1511.4	520.7	100.5	0.920	1.00	1.001	0.009	0.996	0.019	0.003	0.15	1.10
11	60	5.001	0.925	991.06	1512.0	521.0	100.3	0.921	1.00	1.001	0.009	0.996	0.019	0.004	0.21	1.09
12	60	4.473	0.925	991.06	1512.7	521.2	100.4	0.921	1.00	1.000	0.008	0.996	0.019	0.002	0.09	1.12
13	60	3.930	0.925	991.07	1513.4	521.5	100.4	0.921	1.00	1.001	0.009	0.996	0.019	0.001	0.07	1.08
14	60	3.520	0.925	990.86	1513.9	521.4	100.5	0.921	1.00	1.001	0.009	0.996	0.020	-0.000	-0.03	1.13
15	60	3.521	0.925	990.89	1514.0	521.5	100.4	0.921	1.00	1.001	0.008	0.997	0.019	-0.000	-0.01	1.10
16	60	2.962	0.926	991.93	1511.0	521.1	100.4	0.918	0.99	1.000	0.015	0.992	0.019	0.001	0.08	1.12
17	60	2.547	0.925	991.23	1512.5	521.2	100.5	0.920	1.00	1.001	0.011	0.995	0.019	0.001	0.05	1.10
18	60	2.060	0.925	990.69	1515.1	521.9	100.2	0.924	1.00	1.002	0.005	0.999	0.019	-0.000	-0.03	1.10
19	60	1.504	0.925	991.19	1516.7	522.7	100.4	0.921	1.00	1.001	0.009	0.996	0.018	-0.002	-0.14	1.02
20	60	1.035	0.925	991.39	1516.9	522.9	100.4	0.920	1.00	1.000	0.010	0.995	0.019	-0.002	-0.14	1.07
21	60	0.475	0.926	991.84	1514.4	522.4	100.1	0.920	0.99	1.001	0.012	0.994	0.019	-0.002	-0.14	1.07
22	60	-0.019	0.926	991.93	1512.7	521.8	100.3	0.918	0.99	1.000	0.016	0.992	0.017	-0.000	-0.01	1.01
23	60	-0.529	0.926	991.59	1511.6	521.1	100.4	0.918	0.99	1.000	0.015	0.993	0.018	0.000	0.01	1.03
24	60	-1.029	0.925	990.39	1512.3	520.9	99.9	0.914	0.99	0.999	0.018	0.990	0.017	-0.000	-0.02	0.99
25	60	-1.542	0.925	991.43	1513.7	521.8	100.4	0.921	1.00	1.001	0.010	0.996	0.017	-0.002	-0.10	0.98
26	60	-2.063	0.925	991.43	1513.9	521.8	100.5	0.919	0.99	1.001	0.012	0.994	0.016	-0.001	-0.05	0.94
27	60	-2.592	0.925	991.08	1513.9	521.8	100.1	0.919	0.99	1.000	0.012	0.994	0.017	-0.001	-0.08	0.96
28	60	-3.060	0.925	991.31	1514.7	522.0	100.4	0.920	1.00	1.001	0.010	0.995	0.016	-0.001	-0.06	0.95
29	60	-3.491	0.926	991.85	1515.5	522.6	100.5	0.923	1.00	1.002	0.007	0.998	0.016	-0.001	-0.06	0.92
30	60	-4.067	0.925	990.87	1514.6	521.7	100.4	0.918	0.99	1.001	0.014	0.993	0.019	-0.001	-0.05	1.08
31	60	-4.480	0.926	991.85	1515.5	522.6	100.5	0.921	1.00	1.001	0.010	0.995	0.016	-0.001	-0.07	0.92
32	60	-4.984	0.925	991.23	1513.0	521.5	100.3	0.923	1.00	1.004	0.011	0.998	0.016	0.004	0.24	0.90
34	60	-4.985	0.925	991.42	1514.9	522.1	100.5	0.919	0.99	1.001	0.013	0.994	0.014	-0.002	-0.13	0.83
35	60	-5.348	0.925	991.50	1515.2	522.3	100.4	0.920	1.00	1.001	0.011	0.995	0.015	-0.003	-0.17	0.88

TEST	PART	PRESS-6	ALPHA	PLANE	YT	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	72	3.000	5.05	4 PLT	0.03	-14.00	5	401	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	VM	PI	W	TT	ML	VTL/VM	PTL/PT	CPL	UT/VM	VI/VM	WT/VM	AATL	SWTL
5	1	24.018	0.925	981.40	1483.5	511.3	89.5	0.919	0.99	1.000	0.012	0.991	0.008	0.083	4.79	0.47
7	2	23.544	0.925	981.18	1482.7	510.9	89.3	0.918	0.99	1.000	0.013	0.990	0.006	0.083	4.78	0.34
9	3	23.040	0.926	982.29	1482.5	511.2	89.7	0.921	1.00	1.000	0.009	0.992	0.006	0.083	4.80	0.35
11	4	22.537	0.926	981.56	1481.3	510.7	89.1	0.918	0.99	1.000	0.014	0.990	0.011	0.083	4.78	0.62
13	5	22.042	0.925	981.73	1480.8	510.4	89.4	0.920	0.99	1.000	0.011	0.991	0.008	0.083	4.76	0.46
15	6	21.540	0.925	981.57	1480.5	510.3	89.4	0.919	0.99	1.000	0.012	0.991	0.008	0.083	4.77	0.47
17	7	21.035	0.925	981.73	1480.1	510.2	89.4	0.920	0.99	1.001	0.011	0.991	0.008	0.083	4.76	0.49
19	8	20.524	0.925	981.18	1479.1	509.7	89.2	0.917	0.99	1.000	0.015	0.989	0.008	0.083	4.77	0.46
21	9	20.036	0.926	981.94	1479.9	510.0	89.3	0.919	0.99	1.000	0.014	0.990	0.008	0.083	4.78	0.46
23	10	19.538	0.925	981.75	1479.1	509.9	89.4	0.919	0.99	1.001	0.014	0.990	0.008	0.084	4.83	0.48
25	11	19.041	0.925	982.46	1480.8	510.5	90.2	0.919	0.99	1.001	0.012	0.991	0.009	0.083	4.79	0.50
27	12	18.531	0.925	981.82	1480.9	510.0	90.4	0.919	0.99	1.001	0.012	0.991	0.008	0.083	4.80	0.48
29	13	18.039	0.925	982.32	1481.1	510.4	90.4	0.918	0.99	1.001	0.014	0.990	0.008	0.082	4.76	0.48
31	14	17.515	0.925	982.11	1481.4	510.4	90.3	0.917	0.99	1.000	0.016	0.989	0.007	0.083	4.79	0.39
33	15	17.035	0.925	982.14	1481.7	510.5	90.7	0.917	0.99	1.000	0.015	0.989	0.008	0.083	4.80	0.49
35	16	16.531	0.925	982.49	1481.8	510.6	90.6	0.918	0.99	1.000	0.014	0.990	0.009	0.083	4.77	0.51
37	17	16.030	0.924	981.96	1481.7	510.2	90.7	0.915	0.99	1.000	0.019	0.987	0.008	0.082	4.77	0.48
39	18	15.530	0.925	982.09	1481.6	510.3	90.7	0.916	0.99	1.000	0.016	0.989	0.009	0.083	4.81	0.54
41	19	15.030	0.925	981.77	1481.5	510.2	90.4	0.914	0.99	1.000	0.020	0.987	0.008	0.084	4.86	0.47
43	20	14.530	0.925	982.54	1481.7	510.6	90.7	0.915	0.99	1.000	0.019	0.987	0.009	0.083	4.82	0.51
45	21	14.032	0.925	982.16	1481.7	510.4	90.6	0.914	0.99	1.000	0.020	0.987	0.008	0.085	4.91	0.48
47	22	13.545	0.925	982.14	1481.5	510.3	90.6	0.914	0.99	1.000	0.019	0.987	0.008	0.085	4.93	0.49
49	23	13.035	0.925	982.60	1482.0	510.7	90.8	0.920	1.00	0.999	0.008	0.992	0.009	0.076	4.39	0.54
51	24	12.534	0.924	981.96	1481.7	510.2	90.7	0.915	0.99	1.000	0.018	0.987	0.009	0.086	5.00	0.52
53	25	12.033	0.925	982.37	1481.4	510.4	90.7	0.915	0.99	1.000	0.018	0.987	0.009	0.086	5.00	0.52
55	26	11.536	0.925	982.29	1481.8	510.4	90.9	0.915	0.99	1.000	0.019	0.987	0.009	0.087	5.04	0.49
57	27	11.033	0.925	982.44	1481.9	510.5	90.9	0.914	0.99	1.000	0.020	0.987	0.005	0.087	5.05	0.29
59	28	10.543	0.925	982.25	1481.7	510.4	90.7	0.917	0.99	0.999	0.013	0.989	0.009	0.084	4.85	0.53
61	29	10.041	0.925	982.34	1481.7	510.5	90.7	0.917	0.99	1.000	0.015	0.989	0.009	0.087	5.05	0.49
63	30	9.536	0.925	982.23	1481.5	510.3	90.7	0.916	0.99	1.000	0.015	0.988	0.009	0.088	5.07	0.49
67	31	9.015	0.925	982.34	1481.7	510.5	90.7	0.918	0.99	1.000	0.012	0.990	0.009	0.089	5.14	0.52
69	32	8.535	0.925	982.01	1481.6	510.3	90.5	0.917	0.99	1.000	0.015	0.989	0.009	0.088	5.09	0.52
71	33	8.035	0.924	981.83	1481.5	509.9	90.9	0.917	0.99	1.000	0.013	0.990	0.009	0.088	5.10	0.52
73	34	7.530	0.924	981.58	1481.4	509.9	90.8	0.918	0.99	1.000	0.011	0.991	0.009	0.088	5.07	0.54
75	35	7.031	0.924	981.23	1481.1	509.6	90.7	0.918	0.99	1.000	0.012	0.990	0.009	0.088	5.08	0.52
77	36	6.538	0.927	984.06	1481.3	511.3	90.7	0.920	0.99	1.000	0.014	0.989	0.009	0.088	5.08	0.51
79	37	6.039	0.925	982.82	1481.7	510.7	90.8	0.919	0.99	1.000	0.013	0.990	0.009	0.089	5.13	0.52
81	38	5.533	0.925	982.29	1481.6	510.4	90.7	0.918	0.99	1.000	0.014	0.989	0.009	0.088	5.11	0.53
83	39	5.035	0.926	982.93	1481.7	510.8	90.7	0.919	0.99	1.000	0.012	0.990	0.009	0.089	5.11	0.52
85	40	4.537	0.924	981.77	1481.2	510.0	90.7	0.912	0.99	1.001	0.023	0.984	0.010	0.095	5.49	0.57
87	41	4.046	0.925	982.64	1482.1	510.6	91.1	0.919	0.99	1.001	0.011	0.990	0.009	0.093	5.37	0.54
89	42	3.533	0.925	982.34	1481.7	510.4	90.8	0.917	0.99	1.001	0.016	0.988	0.008	0.089	5.15	0.48
91	43	3.036	0.925	982.57	1481.6	510.5	90.8	0.915	0.99	1.000	0.019	0.986	0.008	0.090	5.19	0.44
93	44	2.535	0.925	982.76	1481.6	510.6	90.9	0.915	0.99	1.000	0.019	0.986	0.008	0.090	5.19	0.47
95	45	2.038	0.925	982.72	1481.9	510.5	91.1	0.915	0.99	1.000	0.019	0.987	0.009	0.090	5.20	0.54

TEST	PART	REX10-6	ALPHA	WING	YI	ZI	MON	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	73	3.002	5.05 4 PCT		0.0	-14.0	5	401	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	AI	P	VM	PI	Q	TT	ML	VTL/VM	PTL/PT	CPL	UT/VM	VI/VM	WI/VM	AATL	SWTL
1	46	1.579	0.924	981.83	1481.3	510.0	90.7	0.913	0.99	1.000	0.020	0.986	0.008	0.091	5.27	0.49
3	47	1.044	0.925	982.07	1481.8	510.5	91.0	0.913	0.99	1.000	0.023	0.984	0.004	0.091	5.27	0.25
5	48	0.537	0.924	981.88	1482.1	510.2	90.9	0.915	0.99	1.001	0.017	0.988	0.009	0.091	5.27	0.51
7	49	0.021	0.923	980.48	1481.0	509.0	90.9	0.913	0.99	1.000	0.018	0.987	0.010	0.092	5.31	0.55
9	50	-0.459	0.925	982.47	1481.6	510.4	90.9	0.915	0.99	1.000	0.018	0.986	0.009	0.092	5.34	0.53
11	51	-0.963	0.925	982.40	1481.5	510.3	91.0	0.915	0.99	1.000	0.018	0.987	0.008	0.093	5.38	0.49
13	52	-1.474	0.925	982.54	1481.2	510.4	90.6	0.914	0.99	1.000	0.020	0.986	0.009	0.093	5.38	0.50
15	53	-1.965	0.924	981.92	1481.3	510.1	90.7	0.914	0.99	1.000	0.019	0.986	0.009	0.093	5.41	0.51
17	54	-2.469	0.925	982.17	1481.2	510.2	90.6	0.915	0.99	1.000	0.017	0.987	0.009	0.094	5.43	0.51
19	55	-2.973	0.925	981.98	1481.2	510.2	90.5	0.916	0.99	1.000	0.015	0.988	0.009	0.093	5.39	0.51
21	56	-3.470	0.925	982.77	1481.8	510.7	90.9	0.915	0.99	1.000	0.019	0.986	0.012	0.095	5.49	0.67
23	57	-3.972	0.925	982.15	1481.7	510.4	90.7	0.914	0.99	1.000	0.011	0.990	0.009	0.096	5.53	0.54
25	58	-4.472	0.925	982.74	1481.7	510.8	90.6	0.917	0.99	1.000	0.015	0.988	0.010	0.094	5.46	0.58
26	58	-4.922	0.925	982.64	1481.9	510.6	90.9	0.918	0.99	1.000	0.013	0.989	0.009	0.094	5.44	0.52
28	59	-4.926	0.925	982.77	1481.8	510.7	90.9	0.922	1.00	1.004	0.012	0.992	0.009	0.098	5.62	0.50

TEST	PART	MEAN-6	ALPHA	ALPHA	YI	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	7A	2.485	5.05	4 PCI	0.01	-13.19	5	401	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	V4	PT	Q	TT	ML	VTL/VM	PTL/PT	CPL	UI/VM	VT/VM	WT/VM	AATL	SWTL
1	25	-4.987	0.925	982.51	1482.1	510.9	90.3	0.918	0.99	1.001	0.014	0.993	0.008	0.004	0.23	0.48
2	25	-4.009	0.926	982.73	1480.6	510.5	90.2	0.917	0.99	1.001	0.017	0.992	0.008	0.004	0.24	0.47
3	25	-3.018	0.926	983.46	1479.0	510.4	90.4	0.917	0.99	1.001	0.019	0.991	0.008	0.003	0.19	0.46
4	25	-1.996	0.926	983.24	1477.7	509.9	90.1	0.917	0.99	1.001	0.018	0.991	0.008	0.003	0.15	0.47
5	25	-0.329	0.926	981.02	1476.3	509.3	90.2	0.916	0.99	1.000	0.020	0.991	0.008	0.001	0.08	0.48
6	25	-0.060	0.926	981.22	1475.3	509.0	90.3	0.914	0.99	1.000	0.023	0.989	0.008	0.001	0.06	0.44
7	25	0.957	0.927	983.92	1473.5	508.8	90.4	0.917	0.99	1.000	0.019	0.991	0.008	0.000	0.03	0.45
8	25	2.019	0.926	983.03	1471.5	507.7	90.1	0.915	0.99	1.000	0.021	0.990	0.008	-0.000	-0.02	0.45
9	25	3.068	0.927	983.75	1470.4	507.6	90.4	0.917	0.99	1.001	0.019	0.991	0.008	-0.000	-0.03	0.44
10	25	4.007	0.927	983.95	1468.5	507.1	90.2	0.918	0.99	1.000	0.017	0.991	0.007	-0.001	-0.05	0.39
11	25	4.954	0.924	980.96	1466.5	504.7	90.1	0.915	0.99	1.000	0.018	0.992	0.011	-0.002	-0.09	0.63
12	25	6.105	0.925	981.69	1464.9	504.5	90.3	0.917	0.99	1.000	0.015	0.993	0.008	-0.001	-0.04	0.45
13	25	7.040	0.925	981.66	1464.2	504.3	90.3	0.916	0.99	1.000	0.016	0.992	0.008	-0.000	-0.02	0.44
14	25	8.032	0.925	981.47	1461.9	503.5	90.0	0.915	0.99	1.000	0.017	0.991	0.008	-0.001	-0.04	0.45
15	25	8.961	0.924	981.62	1462.4	503.6	90.4	0.916	0.99	1.001	0.016	0.993	0.008	-0.001	-0.09	0.45
16	25	10.042	0.924	981.36	1462.1	503.3	90.3	0.915	0.99	1.000	0.017	0.992	0.008	-0.001	-0.09	0.47
17	25	10.948	0.924	981.22	1462.0	503.3	90.1	0.914	0.99	1.000	0.019	0.990	0.007	-0.002	-0.12	0.42
18	25	12.030	0.924	981.17	1464.0	503.8	90.4	0.917	0.99	1.001	0.014	0.994	0.008	-0.005	-0.31	0.47
19	25	12.989	0.923	980.47	1464.6	503.9	90.1	0.915	0.99	1.001	0.018	0.992	0.009	-0.004	-0.21	0.50
20	25	13.981	0.923	980.62	1466.8	504.5	90.3	0.916	0.99	1.001	0.016	0.993	0.011	-0.005	-0.28	0.61
21	25	14.966	0.924	980.98	1468.3	505.1	90.4	0.921	1.00	1.003	0.011	0.997	0.008	-0.005	-0.31	0.48
22	25	15.959	0.925	981.80	1470.4	506.5	90.3	0.917	0.99	1.001	0.015	0.993	0.008	-0.005	-0.31	0.44
23	25	16.961	0.925	981.65	1471.3	506.8	90.0	0.919	0.99	1.001	0.013	0.994	0.009	-0.007	-0.39	0.50
24	25	17.944	0.925	982.08	1473.3	507.6	90.4	0.919	0.99	1.001	0.012	0.995	0.008	-0.006	-0.36	0.47
25	25	19.052	0.925	981.98	1473.1	507.6	90.2	0.918	0.99	1.001	0.014	0.993	0.008	-0.007	-0.39	0.43
26	25	19.962	0.925	982.31	1473.2	507.7	90.4	0.918	0.99	1.000	0.014	0.993	0.008	-0.007	-0.39	0.47
27	25	21.023	0.925	982.14	1472.2	507.3	90.3	0.915	0.99	1.000	0.020	0.990	0.002	-0.007	-0.40	0.12
28	25	22.001	0.925	982.12	1472.0	507.2	90.4	0.917	0.99	1.000	0.014	0.993	0.008	-0.007	-0.42	0.48
29	25	22.977	0.925	982.23	1471.3	507.1	90.1	0.921	1.00	1.001	0.008	0.996	0.012	-0.007	-0.39	0.68
30	25	24.047	0.925	982.42	1471.5	507.2	90.4	0.920	1.00	1.001	0.011	0.995	0.008	-0.006	-0.36	0.47

TEST	PART	REX10-6	ALPHA	WING	YI	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	44	2.973	5.01 4 PCT		14.16	0.0	5	403	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	VM	PI	Q	TI	ML	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	25	23.909	0.926	985.78	1477.6	511.2	90.7	0.935	1.01	1.003	-0.006	1.005	0.017	0.020	1.17	0.98
2	25	22.882	0.928	985.07	1480.9	511.5	90.7	0.928	1.00	1.002	0.002	1.000	0.013	0.021	1.18	0.76
3	25	21.771	0.928	985.34	1477.5	510.9	90.4	0.920	0.99	1.000	0.016	0.992	0.018	0.020	1.18	1.04
4	25	20.641	0.926	983.40	1473.9	505.6	90.3	0.920	0.99	1.000	0.012	0.994	0.020	0.020	1.18	1.13
5	25	19.856	0.926	983.21	1470.5	507.2	90.5	0.922	1.00	1.000	0.008	0.996	0.018	0.023	1.32	1.01
6	25	18.955	0.926	982.45	1467.0	505.8	90.5	0.920	0.99	1.000	0.011	0.995	0.014	0.020	1.15	0.79
7	25	18.048	0.926	983.13	1466.4	505.8	90.4	0.929	1.00	1.001	-0.005	1.003	0.019	0.019	1.10	1.08
8	25	16.950	0.926	983.18	1468.2	506.5	90.4	0.939	1.01	1.000	-0.022	1.011	0.020	0.007	0.41	1.11
9	25	16.045	0.926	983.45	1470.1	507.1	90.7	0.932	1.01	1.001	-0.009	1.005	0.021	0.016	0.91	1.22
10	25	14.890	0.925	982.42	1471.5	507.2	90.4	0.929	1.00	1.001	-0.006	1.003	0.026	0.013	0.74	1.47
11	25	13.841	0.925	982.09	1473.1	507.3	90.7	0.929	1.00	1.001	-0.006	1.004	0.020	0.012	0.68	1.12
12	25	13.002	0.924	981.33	1474.9	507.7	90.4	0.923	1.00	1.001	0.004	0.999	0.023	0.010	0.56	1.34
13	25	11.916	0.924	981.82	1479.4	509.4	90.7	0.925	1.00	1.001	0.001	1.000	0.023	0.010	0.55	1.32
14	25	10.678	0.923	980.89	1482.2	509.8	90.6	0.922	1.00	1.001	0.005	0.998	0.022	0.008	0.47	1.27
15	25	9.693	0.922	979.96	1482.6	509.5	90.5	0.919	1.00	1.001	0.008	0.997	0.022	0.006	0.35	1.26
17	25	8.978	0.924	981.71	1483.8	510.9	90.5	0.924	1.00	1.001	0.003	0.999	0.018	0.007	0.41	1.05
18	25	8.062	0.924	981.87	1483.6	510.8	90.7	0.921	1.00	1.001	0.007	0.997	0.022	0.007	0.40	1.29
19	25	6.846	0.924	981.92	1481.1	510.1	90.6	0.917	0.99	1.000	0.014	0.993	0.025	0.007	0.38	1.44
20	25	6.211	0.925	982.49	1479.7	510.0	90.5	0.921	1.00	1.000	0.009	0.995	0.022	0.006	0.36	1.28
21	25	4.856	0.925	982.45	1478.8	509.5	90.7	0.921	1.00	1.001	0.009	0.996	0.022	0.006	0.37	1.29
22	25	3.945	0.925	982.66	1477.3	509.3	90.7	0.920	1.00	1.001	0.010	0.995	0.023	0.006	0.32	1.31
23	25	2.865	0.925	982.51	1475.6	508.6	90.6	0.918	0.99	1.001	0.015	0.993	0.022	0.006	0.35	1.27
24	25	1.934	0.924	981.46	1473.8	507.5	90.6	0.914	0.99	1.000	0.019	0.990	0.022	0.004	0.21	1.25
25	25	1.025	0.925	982.19	1472.5	507.3	90.6	0.916	0.99	1.000	0.018	0.991	0.021	0.005	0.32	1.20
26	25	-0.083	0.925	982.13	1471.7	506.9	90.6	0.917	0.99	1.000	0.015	0.993	0.018	0.006	0.33	1.02
27	25	-1.179	0.924	981.68	1469.2	505.8	90.6	0.916	0.99	1.000	0.016	0.992	0.022	0.005	0.31	1.28
28	25	-2.077	0.925	982.46	1468.5	506.1	90.5	0.910	0.99	0.995	0.019	0.986	0.020	-0.003	-0.15	1.13
29	25	-2.872	0.924	981.96	1466.8	505.1	90.7	0.916	0.99	1.000	0.017	0.992	0.019	0.006	0.34	1.11
30	25	-4.092	0.925	982.23	1467.1	505.4	90.7	0.918	0.99	1.001	0.014	0.994	0.018	0.006	0.32	1.06
31	25	-4.940	0.924	981.66	1466.4	505.0	90.4	0.918	0.99	1.001	0.013	0.994	0.018	0.006	0.37	1.06

TEST	PART	RE X10-6	ALPHA	WING	YT	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	91	2.492	-5.02	4 PCT	-0.00	-14.14	5	501	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	AI	M	VM	PI	Q	TT	ML	VTL/VM	PIL/PI	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	1	24.004	0.926	982.04	1482.0	511.1	89.3	0.920	0.99	1.000	0.011	0.995	0.010	0.021	1.22	0.57
2	1	23.022	0.926	982.17	1482.8	511.3	89.7	0.923	1.00	1.001	0.006	0.997	0.010	0.021	1.20	0.55
3	1	21.983	0.925	981.92	1482.7	511.1	89.7	0.924	1.00	1.001	0.005	0.998	0.009	0.021	1.22	0.53
4	1	21.029	0.926	982.22	1482.9	511.3	89.8	0.926	1.00	1.001	0.001	1.000	0.010	0.022	1.25	0.55
5	1	20.052	0.925	981.64	1482.5	511.0	89.4	0.929	1.00	1.000	-0.006	1.003	0.014	0.022	1.24	0.81
6	1	19.029	0.926	982.42	1482.9	511.4	89.8	0.932	1.01	1.001	-0.011	1.006	0.009	0.022	1.24	0.49
7	1	18.024	0.926	981.95	1482.7	511.2	89.6	0.935	1.01	1.000	-0.016	1.008	0.011	0.021	1.22	0.61
8	1	17.031	0.926	982.66	1483.5	511.8	89.8	0.940	1.01	1.000	-0.026	1.013	0.011	0.019	1.09	0.62
9	1	16.005	0.925	981.55	1483.2	511.2	89.4	0.962	1.03	1.003	-0.061	1.033	0.010	0.018	0.99	0.58
10	1	14.969	0.926	981.99	1484.0	511.7	89.5	0.938	1.01	0.999	-0.025	1.012	0.010	0.010	0.59	0.56
11	1	13.991	0.925	991.98	1483.5	511.3	89.8	0.930	1.00	0.996	-0.014	1.004	0.009	0.008	0.43	0.54
12	1	12.970	0.926	982.07	1483.8	511.6	89.6	0.936	1.01	1.001	-0.017	1.009	0.010	0.005	0.29	0.55
13	1	12.023	0.926	982.51	1483.4	511.7	89.7	0.936	1.01	1.000	-0.017	1.009	0.007	0.004	0.23	0.39
14	1	11.011	0.926	982.25	1482.6	511.3	89.7	0.931	1.01	1.001	-0.010	1.005	0.010	0.002	0.12	0.55
15	1	10.033	0.926	981.97	1481.2	510.8	89.4	0.929	1.00	1.000	-0.006	1.003	0.010	0.002	0.09	0.56
16	1	9.030	0.926	982.39	1481.5	510.9	89.9	0.929	1.00	1.001	-0.006	1.003	0.007	0.001	0.08	0.38
17	1	7.997	0.927	983.48	1481.2	511.3	90.0	0.929	1.00	1.001	-0.003	1.002	0.010	0.001	0.05	0.56
18	1	7.031	0.924	981.31	1481.2	509.8	90.4	0.927	1.00	1.000	-0.004	1.002	0.009	-0.000	-0.01	0.54
19	1	6.003	0.923	981.04	1480.6	509.3	90.8	0.919	1.00	1.001	0.009	0.996	0.009	0.008	0.47	0.53
20	1	5.027	0.923	980.86	1479.6	508.9	90.7	0.922	1.00	1.000	0.003	0.999	0.009	-0.001	-0.06	0.51
21	1	4.008	0.923	981.15	1479.8	508.9	91.0	0.921	1.00	1.001	0.005	0.998	0.009	-0.001	-0.06	0.53
22	1	3.013	0.924	981.70	1479.2	509.2	90.8	0.920	1.00	1.001	0.009	0.996	0.009	-0.002	-0.11	0.54
23	1	2.036	0.924	981.44	1479.1	509.3	90.7	0.918	0.99	1.000	0.013	0.994	0.010	-0.000	-0.02	0.55
24	1	1.004	0.925	982.40	1478.9	509.4	90.9	0.916	0.99	1.000	0.016	0.992	0.009	-0.000	-0.01	0.53
25	1	0.042	0.924	982.02	1479.1	509.3	90.9	0.915	0.99	1.001	0.018	0.992	0.009	0.001	0.07	0.54
26	1	-0.976	0.925	982.19	1479.2	509.5	90.8	0.915	0.99	1.000	0.019	0.991	0.009	0.002	0.13	0.51
27	1	-1.976	0.924	981.61	1479.4	509.1	90.9	0.914	0.99	1.001	0.020	0.991	0.009	0.008	0.44	0.53
28	1	-2.960	0.925	982.38	1479.9	509.8	90.9	0.918	0.99	1.001	0.015	0.993	0.009	0.004	0.22	0.54
29	1	-3.997	0.924	981.77	1478.8	509.1	90.7	0.914	0.99	1.001	0.020	0.990	0.015	0.005	0.27	0.89
30	1	-4.994	0.924	982.08	1478.0	508.9	90.9	0.917	0.99	1.000	0.015	0.993	0.009	0.005	0.27	0.54
31	1	-5.941	0.924	981.99	1477.5	508.7	90.9	0.921	1.00	1.001	0.007	0.997	0.004	0.006	0.32	0.24

TEST	PART	RE/10-6	ALFAM	WIND	Y	Z	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	60	2.997	-0.00	PCT	4.00	-1.02	4	20A	4-13-77	TRANSONIC 16T

INNER FLOWFIELD SURVEY SUMMARY

POINT	GP	X	M	V/T	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	60	19.013	0.976	1037.65	1485.6	537.9	100.6	0.914	0.95	0.997	0.102	0.946	0.010	0.016	0.97	0.58
4	0	19.013	0.975	1036.65	1486.1	537.9	100.4	0.911	0.94	0.995	0.103	0.944	0.009	0.013	0.81	0.50
5	0	18.663	0.976	1037.91	1487.4	538.9	100.8	0.915	0.95	0.995	0.100	0.946	0.011	0.014	0.85	0.64
6	0	18.313	0.977	1038.05	1490.0	540.0	100.6	0.915	0.95	0.994	0.098	0.946	0.012	0.017	1.03	0.75
7	0	18.014	0.976	1037.63	1486.7	538.5	100.8	0.935	0.96	0.993	0.061	0.964	0.017	0.027	1.59	0.99
8	0	17.635	0.975	1036.09	1486.7	537.8	100.5	1.126	1.13	0.995	-0.256	1.124	0.017	0.057	2.88	0.86
9	0	17.336	0.975	1035.37	1488.1	537.7	100.9	1.175	1.17	0.997	-0.332	1.164	-0.002	0.065	3.21	-0.11
10	0	17.004	0.975	1036.10	1488.7	538.5	100.5	1.144	1.14	0.998	-0.281	1.139	-0.008	0.039	1.97	-0.38
11	0	16.644	0.974	1035.88	1488.5	538.2	100.8	1.093	1.10	0.999	-0.199	1.099	-0.009	0.018	0.92	-0.49
12	0	16.316	0.974	1035.26	1488.4	538.0	100.5	1.057	1.07	1.000	-0.141	1.070	-0.003	0.008	0.43	-0.18
13	0	15.997	0.973	1034.56	1489.1	537.7	100.8	1.034	1.05	1.001	-0.102	1.052	-0.005	0.001	0.08	-0.25
14	0	15.651	0.974	1035.76	1490.8	539.0	100.8	1.012	1.03	1.000	-0.064	1.032	-0.003	-0.006	-0.36	-0.17
15	0	15.337	0.974	1035.59	1489.4	538.4	100.7	1.002	1.02	1.000	-0.048	1.024	-0.001	-0.008	-0.44	-0.06
16	0	15.018	0.974	1036.21	1489.3	538.6	100.9	0.998	1.02	1.000	-0.040	1.020	-0.001	-0.015	-0.82	-0.04
17	0	14.653	0.974	1035.51	1487.8	537.8	100.7	0.983	1.01	1.000	-0.015	1.007	0.002	-0.022	-1.22	0.10
18	0	14.329	0.974	1035.32	1488.0	537.7	100.8	0.979	1.00	1.000	-0.009	1.004	0.004	-0.025	-1.44	0.23
19	0	14.324	0.973	1035.16	1487.7	537.5	100.8	0.973	1.00	1.000	0.000	0.999	0.004	-0.026	-1.48	0.23
20	0	14.010	0.974	1035.92	1488.4	538.1	100.9	0.966	0.99	1.000	0.011	0.994	0.007	-0.031	-1.78	0.39
21	0	13.654	0.974	1035.78	1488.5	538.1	100.8	0.942	0.97	1.000	0.056	0.971	0.011	-0.036	-2.10	0.65
22	0	13.328	0.974	1035.89	1488.7	538.3	100.8	0.936	0.97	1.000	0.066	0.966	0.018	-0.039	-2.29	1.06
23	0	13.021	0.974	1035.75	1488.5	538.3	100.6	0.932	0.96	1.000	0.074	0.962	0.024	-0.038	-2.27	1.43
24	0	12.668	0.974	1035.48	1488.1	537.9	100.7	0.929	0.96	1.001	0.080	0.960	0.032	-0.031	-1.85	1.88
25	0	12.348	0.974	1035.73	1488.2	538.1	100.6	0.925	0.96	1.000	0.086	0.956	0.036	-0.023	-1.37	2.16
26	0	11.978	0.974	1035.36	1488.4	538.1	100.4	0.928	0.96	1.001	0.082	0.959	0.031	-0.015	-0.91	1.87
27	0	11.682	0.974	1035.69	1487.8	537.9	100.9	0.928	0.96	1.000	0.081	0.959	0.028	-0.010	-0.62	1.65
28	0	11.338	0.974	1035.66	1487.7	537.9	100.6	0.929	0.96	1.000	0.080	0.960	0.024	-0.007	-0.40	1.42
29	0	10.997	0.974	1035.20	1488.1	537.8	100.5	0.930	0.96	1.000	0.077	0.961	0.020	-0.005	-0.27	1.19

TEST	PART	MERIDIAN ALPHA	WING	Y	Z	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
[illegible]	76	2.987 5.66	4 PCT	4.00	-0.91	4	208	4-14-77	TRANSONIC 16T

INNER FLOWFIELD SURVEY SUMMARY

POINT	[illegible]	X	[illegible]	VT	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
5	1	19.021	0.976	1027.91	1452.2	525.8	90.8	0.945	0.97	0.999	0.052	0.970	0.055	0.051	2.99	3.23
7	2	18.684	0.976	1027.79	1453.4	526.3	90.5	0.993	1.01	1.000	-0.030	1.011	0.057	0.054	3.07	3.21
9	3	18.342	0.976	1028.05	1454.8	526.8	90.7	1.010	1.03	0.998	-0.061	1.025	0.057	0.064	3.56	3.19
11	4	18.026	0.976	1028.24	1455.9	527.2	90.9	1.067	1.08	0.998	-0.156	1.072	0.058	0.074	3.97	3.08
13	5	17.688	0.977	1028.82	1455.7	527.5	90.8	1.079	1.09	0.998	-0.173	1.082	0.049	0.070	3.71	2.58
15	6	17.366	0.974	1026.09	1454.0	525.8	90.6	1.066	1.08	0.999	-0.158	1.075	0.042	0.064	3.41	2.24
17	7	17.026	0.975	1027.12	1455.1	526.4	90.9	1.055	1.07	1.000	-0.136	1.066	0.037	0.052	2.80	2.01
19	8	16.694	0.975	1027.11	1454.7	526.3	90.7	1.026	1.04	1.000	-0.086	1.042	0.035	0.035	1.94	1.94
21	9	16.345	0.975	1026.90	1454.3	526.1	90.5	0.992	1.01	1.000	-0.030	1.014	0.037	0.025	1.39	2.10
23	10	16.022	0.975	1026.94	1454.4	526.1	90.8	0.939	0.97	1.001	0.062	0.968	0.040	0.021	1.25	2.35
25	11	15.683	0.975	1027.12	1454.0	526.0	90.8	0.936	0.97	1.000	0.068	0.965	0.042	0.010	0.60	2.52
27	12	15.346	0.975	1026.90	1453.6	525.8	90.7	0.927	0.96	1.000	0.083	0.958	0.046	0.005	0.28	2.76
29	13	15.019	0.974	1026.53	1452.7	525.4	90.4	0.919	0.95	1.000	0.096	0.950	0.049	0.002	0.14	2.97
31	14	14.694	0.975	1027.36	1453.2	525.8	90.9	0.912	0.94	1.000	0.111	0.943	0.054	-0.001	-0.06	3.31
33	15	14.355	0.975	1027.61	1453.1	525.9	90.8	0.899	0.93	1.000	0.134	0.931	0.062	-0.005	-0.29	3.82
35	16	14.023	0.975	1027.09	1452.3	525.5	90.5	0.889	0.92	1.000	0.151	0.922	0.067	-0.002	-0.13	4.16
37	17	13.684	0.975	1027.35	1452.6	525.7	90.6	0.871	0.91	1.000	0.183	0.904	0.081	0.001	0.07	5.12
39	18	13.354	0.975	1027.37	1452.1	525.5	90.7	0.853	0.89	1.000	0.216	0.886	0.092	0.009	0.59	5.95
41	19	13.016	0.974	1026.71	1451.6	525.0	90.6	0.841	0.88	1.000	0.236	0.875	0.106	0.029	1.88	6.88
43	20	12.689	0.974	1026.53	1451.1	524.7	90.6	0.840	0.88	1.000	0.236	0.871	0.117	0.059	3.88	7.67
45	21	12.360	0.975	1026.92	1450.9	524.9	90.5	0.858	0.90	0.999	0.204	0.886	0.106	0.089	5.75	6.85
47	22	12.026	0.975	1027.17	1451.2	525.0	90.8	0.880	0.92	1.000	0.167	0.906	0.086	0.102	6.41	5.45
49	23	11.691	0.975	1027.33	1450.4	524.9	90.7	0.894	0.93	1.000	0.141	0.920	0.066	0.107	6.66	4.09
51	24	11.353	0.974	1026.52	1449.3	524.3	90.5	0.903	0.94	0.999	0.124	0.929	0.056	0.107	6.57	3.47
53	25	11.024	0.974	1026.95	1449.9	524.4	90.9	0.909	0.94	1.000	0.113	0.936	0.043	0.106	6.47	2.65

TEST	PART	MEXIO-6	ALFMM	WIND	Y	Z	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	87	2.992	-5.11 4	PCT	4.00	-1.09	4	20A	4-14-77	TRANSONIC 16T

INNER FLOWFIELD SURVEY. SUMMARY

POINT	GP	X	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
5	1	19.019	0.975	1026.49	1452.4	525.5	89.9	0.928	0.96	0.991	0.067	0.958	-0.030	-0.024	-1.43	-1.82
7	2	18.679	0.975	1026.65	1453.4	525.0	90.1	0.929	0.96	0.990	0.063	0.959	-0.028	-0.027	-1.64	-1.64
9	3	18.354	0.975	1026.39	1454.4	526.2	90.0	0.936	0.97	0.993	0.040	0.966	-0.023	-0.026	-1.56	-1.37
11	4	19.014	0.974	1025.92	1455.5	526.4	89.4	1.158	1.15	0.981	-0.323	1.151	-0.010	-0.016	-0.79	-0.49
13	5	17.660	0.975	1026.37	1455.4	526.6	89.5	1.256	1.23	0.986	-0.461	1.224	-0.018	0.068	3.19	-0.84
15	6	17.361	0.975	1026.61	1455.5	526.8	89.7	1.248	1.22	0.988	-0.445	1.217	-0.040	0.056	2.61	-1.89
17	7	17.004	0.976	1027.67	1455.3	527.2	89.9	1.235	1.21	0.991	-0.422	1.207	-0.044	0.031	1.49	-2.08
19	8	16.687	0.976	1027.78	1453.7	526.6	90.0	1.219	1.20	0.993	-0.397	1.195	-0.044	0.022	1.07	-2.09
21	9	16.335	0.976	1027.50	1451.9	525.9	89.9	1.201	1.18	0.993	-0.370	1.182	-0.043	0.004	0.17	-2.09
23	10	15.990	0.976	1027.04	1450.5	525.2	89.8	1.193	1.18	0.994	-0.358	1.176	-0.043	-0.004	-0.21	-2.10
25	11	15.685	0.976	1026.98	1449.3	524.8	89.7	1.183	1.17	0.995	-0.343	1.169	-0.046	-0.012	-0.57	-2.25
27	12	15.351	0.975	1026.46	1448.7	524.3	89.7	1.169	1.16	0.996	-0.322	1.158	-0.047	-0.023	-1.15	-2.31
29	13	15.014	0.975	1026.45	1450.1	524.9	89.9	1.155	1.15	0.996	-0.300	1.147	-0.051	-0.033	-1.64	-2.54
31	14	14.669	0.975	1026.46	1452.9	525.6	90.1	1.156	1.15	0.996	-0.302	1.148	-0.053	-0.038	-1.87	-2.63
33	15	14.347	0.974	1026.20	1454.5	526.1	90.1	1.153	1.15	0.997	-0.297	1.145	-0.057	-0.044	-2.21	-2.87
35	16	14.006	0.975	1026.76	1454.9	526.6	89.9	1.143	1.14	0.996	-0.290	1.135	-0.062	-0.053	-2.67	-3.10
37	17	13.681	0.975	1026.37	1453.6	526.1	89.6	1.131	1.13	0.986	-0.276	1.126	-0.065	-0.057	-2.91	-3.29
39	18	13.330	0.975	1026.53	1453.2	526.1	89.8	1.205	1.19	0.993	-0.378	1.182	-0.089	-0.054	-2.63	-4.28
41	19	13.015	0.976	1027.18	1452.6	525.9	90.0	1.194	1.18	0.998	-0.356	1.166	-0.116	-0.121	-5.95	-5.67
43	20	12.692	0.976	1027.78	1451.9	525.9	90.1	1.130	1.13	0.999	-0.256	1.113	-0.080	-0.165	-8.46	-4.13
45	21	12.355	0.975	1026.45	1450.9	525.2	89.9	1.032	1.05	0.999	-0.098	1.035	-0.030	-0.164	-8.98	-1.67
47	22	12.015	0.975	1026.28	1449.8	524.7	89.5	0.965	0.99	1.000	0.016	0.981	0.003	-0.146	-8.45	0.15
49	23	11.669	0.975	1026.77	1450.0	524.9	89.7	0.939	0.97	1.000	0.064	0.959	0.013	-0.130	-7.70	0.81
51	24	11.358	0.976	1026.98	1449.5	524.8	89.9	0.934	0.96	1.000	0.071	0.957	0.019	-0.119	-7.11	1.11
53	25	11.016	0.975	1026.75	1448.9	524.4	90.0	0.932	0.96	1.000	0.075	0.956	0.019	-0.113	-6.72	1.13

TEST	PART	REX10-6	ALFHM	WING	Y	Z	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	61	2.993	-0.01	4 PCT	-4.00	-1.00	4	212	4-13-77	TRANSONIC 16T

INNER FLOWFIELD SURVEY SUMMARY

POINT	GP	X	M	V1	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
4	0	11.025	0.974	1035.43	1487.7	537.8	101.0	0.928	0.96	1.000	0.079	0.960	-0.003	-0.000	-0.01	-0.17
5	0	12.351	0.974	1035.39	1487.4	537.6	100.7	0.923	0.96	1.000	0.089	0.956	-0.015	-0.012	-0.69	-0.88
6	0	13.650	0.974	1035.58	1491.0	539.0	100.7	0.931	0.96	0.998	0.073	0.962	0.002	-0.028	-1.69	0.12
7	0	15.027	0.973	1035.28	1492.8	539.4	100.9	0.978	1.00	1.000	-0.009	1.004	0.018	-0.016	-0.93	1.03
8	0	16.321	0.974	1036.11	1492.0	539.6	100.7	1.046	1.06	0.999	-0.121	1.060	0.027	0.009	0.49	1.48
9	0	17.645	0.974	1035.54	1488.6	538.0	100.9	1.118	1.12	0.995	-0.246	1.119	0.019	0.041	2.12	0.98
10	0	19.018	0.974	1035.98	1486.5	537.6	100.7	0.925	0.96	0.995	0.077	0.957	0.011	-0.005	-0.29	0.63

TEST	PART	REX10-6	ALPHA	PHI	YI	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	46	2.979	-0.01	0 DEG	-0.02	-14.15	5	401	4-13-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	AI	M	V	PI	Q	T	ML	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
4	1	24.045	0.974	1026.11	1451.2	524.7	90.3	0.960	0.99	1.000	0.024	0.988	0.006	0.006	0.37	0.34
6	2	23.538	0.974	1026.19	1450.8	524.6	90.3	0.963	0.99	1.000	0.019	0.991	0.006	0.007	0.38	0.35
8	3	23.039	0.974	1026.15	1450.2	524.4	90.3	0.966	0.99	1.001	0.016	0.993	0.006	0.006	0.35	0.33
10	4	22.548	0.974	1025.79	1450.4	524.4	90.3	0.963	0.99	1.001	0.020	0.990	0.006	0.006	0.37	0.33
12	5	22.048	0.975	1026.55	1452.0	525.3	90.2	0.966	0.99	1.001	0.017	0.992	0.006	0.006	0.35	0.33
14	6	21.544	0.975	1026.79	1453.0	525.7	90.4	0.963	0.99	1.000	0.020	0.990	0.006	0.007	0.39	0.36
16	7	21.053	0.975	1170.04	1452.9	525.8	254.1	0.964	0.99	1.001	0.021	0.990	0.005	0.007	0.40	0.30
18	8	20.543	0.975	1026.83	1452.7	525.5	90.3	0.960	0.99	1.000	0.026	0.987	0.005	0.008	0.47	0.28
20	9	20.049	0.975	1027.22	1453.6	526.2	90.2	0.970	0.99	1.000	0.011	0.995	0.007	0.008	0.48	0.42
22	10	19.543	0.976	1027.62	1454.0	526.5	90.4	0.975	1.00	1.001	0.003	0.999	0.007	0.008	0.47	0.39
24	11	19.038	0.976	1028.09	1453.6	526.6	90.4	0.988	1.01	1.002	-0.017	1.010	0.007	0.009	0.50	0.39
26	12	18.537	0.976	1027.89	1453.4	526.5	90.3	0.985	1.01	1.000	-0.014	1.007	0.008	0.008	0.47	0.45
28	13	18.031	0.976	1027.52	1453.8	526.3	90.4	0.987	1.01	1.001	-0.019	1.010	0.006	0.005	0.29	0.34
30	14	17.530	0.976	1027.81	1454.7	526.8	90.4	0.978	1.00	1.000	-0.003	1.002	0.006	0.000	0.01	0.34
32	15	17.037	0.975	1027.05	1454.4	526.3	90.4	0.980	1.00	1.001	-0.008	1.004	0.006	0.003	0.15	0.33
34	16	16.527	0.975	1026.70	1453.2	525.7	90.4	0.976	1.00	1.000	-0.002	1.001	0.006	0.002	0.10	0.33
36	17	16.033	0.975	1026.79	1452.1	525.3	90.4	0.974	1.00	1.000	0.002	0.999	0.006	0.001	0.03	0.34
38	18	15.535	0.975	1026.62	1451.6	525.1	90.4	0.976	1.00	1.001	-0.002	1.001	0.006	0.001	0.08	0.32
40	19	15.028	0.974	1026.19	1450.8	524.6	90.3	0.974	1.00	1.001	0.001	1.000	0.005	0.001	0.06	0.30
42	20	14.524	0.974	1026.41	1450.5	524.6	90.4	0.981	1.01	1.001	-0.011	1.006	0.005	0.006	0.35	0.29
44	21	14.034	0.975	1026.55	1451.3	524.9	90.4	0.981	1.01	1.001	-0.011	1.006	0.005	-0.005	-0.28	0.30
46	22	13.526	0.975	1026.70	1452.3	525.4	90.4	0.988	0.99	1.001	0.013	0.994	0.005	0.000	0.02	0.30
48	23	13.026	0.975	1026.94	1452.9	525.9	90.1	0.987	0.99	1.000	0.015	0.993	0.005	0.000	0.02	0.29
50	24	12.537	0.975	1027.45	1453.3	526.1	90.3	0.987	0.99	1.000	0.014	0.993	0.005	0.001	0.08	0.31
52	25	12.033	0.975	1026.96	1453.5	525.9	90.4	0.980	0.99	1.000	0.025	0.987	0.006	0.002	0.09	0.34
54	26	11.531	0.974	1026.32	1452.5	525.2	90.4	0.971	1.00	1.001	0.006	0.997	0.006	0.005	0.31	0.32
56	27	11.042	0.975	1026.35	1450.9	524.9	90.0	0.962	0.99	1.000	0.021	0.989	0.005	0.002	0.09	0.30
58	28	10.535	0.974	1025.99	1450.6	524.5	90.1	0.961	0.99	1.000	0.023	0.989	0.004	0.002	0.09	0.22
60	29	10.029	0.974	1026.25	1450.9	524.6	90.1	0.971	1.00	1.001	0.008	0.997	0.005	0.002	0.13	0.31
62	30	9.537	0.975	1026.69	1451.7	525.3	90.1	0.972	1.00	1.001	0.006	0.998	0.005	0.002	0.13	0.30
64	31	9.032	0.975	1026.56	1452.2	525.5	90.1	0.976	1.00	1.001	-0.000	1.001	0.006	0.002	0.09	0.34
66	32	8.535	0.975	1026.56	1452.2	525.4	90.1	0.975	1.00	1.000	0.000	1.000	0.006	0.002	0.12	0.32
68	33	8.041	0.975	1026.64	1452.9	525.7	90.2	0.976	1.00	1.000	-0.002	1.001	0.006	0.003	0.14	0.32
70	34	7.534	0.975	1026.91	1452.3	525.6	90.1	0.973	1.00	1.000	0.003	0.998	0.006	-0.000	-0.01	0.32
72	35	7.049	0.975	1026.35	1451.8	525.1	90.1	0.972	1.00	1.000	0.004	0.998	0.005	-0.001	-0.05	0.28
74	36	6.545	0.975	1026.62	1451.4	525.1	90.1	0.944	0.97	0.997	0.050	0.973	0.005	-0.001	-0.03	0.31
76	37	6.043	0.975	1026.73	1452.0	525.3	90.4	0.972	1.00	1.000	0.004	0.998	0.006	-0.002	-0.13	0.33
78	38	5.545	0.975	1026.56	1451.3	525.0	90.3	0.971	1.00	1.001	0.007	0.997	0.006	-0.002	-0.13	0.32
80	39	5.040	0.974	1025.97	1451.1	524.7	90.1	0.967	0.99	1.000	0.014	0.993	0.006	-0.003	-0.18	0.32
82	40	4.544	0.974	1165.99	1450.7	524.3	251.1	0.964	0.99	1.000	0.017	0.992	0.005	-0.003	-0.17	0.30
84	41	4.049	0.974	1025.25	1451.6	524.6	90.2	0.963	0.99	1.000	0.020	0.990	0.006	-0.003	-0.19	0.34
86	42	3.543	0.975	1026.60	1451.0	524.9	90.2	0.963	0.99	1.000	0.021	0.990	0.006	-0.003	-0.15	0.35
88	43	3.047	0.975	1026.41	1452.1	525.2	90.2	0.943	0.97	1.000	0.055	0.972	0.004	-0.003	-0.15	0.24
90	44	2.546	0.975	1026.46	1452.4	525.4	90.1	0.944	0.97	1.001	0.055	0.973	0.005	-0.001	-0.08	0.31
92	45	2.051	0.975	1027.09	1452.8	525.9	90.1	0.944	0.97	1.000	0.055	0.973	0.006	-0.002	-0.10	0.34
94	46	1.544	0.975	1026.99	1452.8	525.8	90.1	0.942	0.97	1.000	0.058	0.971	0.005	-0.002	-0.10	0.31
96	47	1.044	0.975	1027.05	1453.3	526.0	90.3	0.972	1.00	1.003	0.011	0.997	0.006	-0.001	-0.07	0.34
98	48	0.551	0.975	1027.31	1453.8	526.2	90.5	0.942	0.97	1.000	0.058	0.971	0.006	0.001	0.04	0.33

TEST	PART	MEXICO ALPHA	WING	YI	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
IF-445	47	2.997	0.01 4 PCT	-0.02	-14.17	5	401	4-13-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	VM	PT	M	TT	ML	VTL/VM	PIL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
5	49	0.047	0.976	1027.47	1453.9	526.4	90.4	0.943	0.97	1.001	0.057	0.972	0.005	0.000	0.03	0.32
7	50	-0.462	0.976	1027.42	1453.8	526.4	90.1	0.943	0.97	1.000	0.057	0.972	0.005	0.002	0.11	0.32
9	51	-0.957	0.976	1027.36	1453.7	526.2	90.1	0.944	0.97	1.000	0.056	0.972	0.005	0.002	0.09	0.32
11	52	-1.454	0.976	1027.29	1453.6	526.0	90.2	0.942	0.97	1.000	0.058	0.971	0.005	0.002	0.12	0.31
13	53	-1.960	0.976	1027.44	1453.8	526.1	90.4	0.943	0.97	1.001	0.057	0.972	0.006	0.005	0.31	0.32
15	54	-2.453	0.976	1027.30	1453.6	526.1	90.2	0.958	0.99	1.001	0.031	0.985	0.006	0.003	0.15	0.34
17	55	-2.956	0.975	1027.08	1452.8	525.8	90.2	0.944	0.97	1.000	0.055	0.972	0.004	0.003	0.20	0.26
19	56	-3.471	0.975	1026.97	1452.6	525.7	90.2	0.944	0.97	1.000	0.055	0.973	0.006	0.004	0.23	0.35
21	57	-3.962	0.975	1026.93	1452.9	525.8	90.3	0.962	0.99	1.001	0.023	0.989	0.004	0.004	0.20	0.21
23	58	-4.469	0.975	1026.97	1452.4	525.7	90.1	0.959	0.99	1.001	0.028	0.986	0.006	0.004	0.23	0.32
25	59	-4.964	0.975	1026.95	1452.2	525.5	90.2	0.961	0.99	1.000	0.026	0.987	0.006	0.004	0.25	0.33
27	60	-5.469	0.975	1026.81	1452.5	525.5	90.3	0.961	0.99	1.000	0.025	0.988	0.006	0.004	0.25	0.33
29	61	-5.766	0.975	1026.86	1452.6	525.6	90.4	0.961	0.99	1.000	0.025	0.988	0.006	0.004	0.25	0.37

TEST	PART	HEX10-6	ALFDM	WINU	YT	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-665	56	3.000	-0.01 4 PCT		14.16	-0.04	5	403	4-13-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XT	M	VM	PT	U	TT	ML	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	60	24.047	0.975	1026.10	1456.9	526.5	89.4	0.963	0.99	1.001	0.022	0.989	0.011	0.003	0.18	0.63
2	60	23.506	0.975	1026.31	1453.5	526.0	89.6	0.959	0.99	1.000	0.029	0.986	0.009	0.004	0.25	0.51
3	60	23.006	0.975	1026.71	1453.3	525.9	89.4	0.961	0.99	1.001	0.026	0.987	0.011	0.005	0.27	0.62
4	60	22.506	0.976	1026.72	1453.7	526.4	89.4	0.960	0.99	1.001	0.028	0.986	0.011	0.004	0.24	0.61
5	60	22.034	0.976	1026.77	1453.8	526.3	89.6	0.958	0.99	1.001	0.031	0.985	0.011	0.004	0.26	0.61
6	60	21.542	0.976	1026.75	1453.2	526.2	89.4	0.958	0.99	1.000	0.013	0.993	0.010	0.012	0.70	0.59
7	60	20.978	0.976	1027.21	1453.7	526.6	89.5	0.959	0.99	1.001	0.031	0.985	0.010	0.005	0.27	0.58
8	60	20.477	0.976	1027.24	1453.4	526.5	89.5	0.944	0.97	1.001	0.057	0.972	0.009	0.005	0.27	0.54
9	60	20.016	0.976	1026.83	1453.0	526.1	89.5	0.944	0.97	1.000	0.056	0.972	0.009	0.005	0.27	0.51
10	60	19.538	0.976	1026.88	1452.9	526.2	89.4	0.961	0.99	1.000	0.026	0.987	0.008	0.005	0.28	0.45
11	60	19.038	0.976	1027.10	1453.3	526.4	89.4	0.972	1.00	1.001	0.009	0.996	0.006	0.007	0.40	0.36
12	60	18.504	0.976	1026.76	1452.4	526.2	89.1	0.985	1.01	1.000	-0.015	1.008	0.006	0.010	0.58	0.36
13	60	18.038	0.976	1027.26	1453.4	526.5	89.6	0.995	1.02	1.001	-0.032	1.016	0.010	0.010	0.58	0.55
14	60	17.490	0.976	1026.74	1453.0	526.1	89.4	0.988	1.01	1.000	-0.020	1.010	0.012	0.009	0.50	0.67
15	60	16.932	0.975	1025.99	1452.9	525.7	89.4	0.972	1.00	1.000	0.006	0.997	0.018	0.008	0.44	1.04
16	60	16.452	0.976	1026.73	1452.8	526.1	89.4	0.979	1.00	1.001	-0.005	1.003	0.017	0.007	0.38	0.95
17	60	15.973	0.975	1026.55	1452.5	525.7	89.7	0.970	1.00	1.001	0.010	0.995	0.019	0.007	0.38	1.11
18	60	15.551	0.975	1026.37	1452.7	525.8	89.5	0.973	1.00	1.001	0.005	0.998	0.018	0.005	0.30	1.04
19	60	15.052	0.976	1026.56	1452.3	525.8	89.3	0.974	1.00	1.001	0.005	0.998	0.018	0.005	0.30	1.04
20	60	14.557	0.976	1027.00	1452.4	526.1	89.4	0.970	0.99	1.000	0.010	0.995	0.019	0.005	0.29	1.08
21	60	13.531	0.975	1026.56	1452.3	525.7	89.6	0.944	0.97	0.999	0.054	0.972	0.017	0.005	0.29	1.00
22	60	12.990	0.976	1027.14	1452.5	526.1	89.6	0.969	0.99	1.002	0.015	0.993	0.017	0.006	0.34	1.00
23	60	12.461	0.977	1027.66	1452.9	526.5	89.5	0.967	0.99	1.001	0.018	0.992	0.017	0.005	0.27	0.97
24	60	12.052	0.975	1026.64	1452.3	525.7	89.6	0.965	0.99	1.001	0.019	0.991	0.017	0.005	0.28	0.97
25	60	11.458	0.976	1027.06	1452.7	526.1	89.6	0.941	0.97	0.998	0.057	0.970	0.016	0.007	0.43	0.93
26	60	10.943	0.976	1026.96	1452.5	526.1	89.3	0.967	0.99	1.001	0.018	0.992	0.016	0.005	0.27	0.91
27	60	10.497	0.976	1026.24	1451.7	525.6	89.1	0.961	0.99	1.000	0.025	0.988	0.015	0.006	0.35	0.88
28	60	9.991	0.976	1026.70	1452.0	525.9	89.1	0.969	0.99	1.000	0.012	0.994	0.015	0.006	0.36	0.89
29	60	9.559	0.976	1026.99	1452.0	526.0	89.3	0.971	1.00	1.000	0.010	0.995	0.015	0.006	0.34	0.87
30	60	9.073	0.976	1026.92	1451.5	525.8	89.2	0.973	1.00	1.001	0.005	0.998	0.016	0.006	0.37	0.91
31	60	8.559	0.976	1026.53	1451.9	525.6	89.4	0.973	1.00	1.001	0.005	0.998	0.015	0.007	0.42	0.86
32	60	7.990	0.976	1027.31	1452.6	526.3	89.4	0.978	1.00	1.000	-0.003	1.001	0.017	0.007	0.42	0.95
33	60	7.547	0.975	1026.19	1451.6	525.5	89.1	0.972	1.00	1.000	0.007	0.997	0.017	0.007	0.40	0.97
34	60	6.985	0.976	1026.96	1452.5	526.1	89.4	0.978	1.00	1.001	-0.002	1.001	0.017	0.006	0.36	0.97
35	60	6.526	0.976	1027.10	1452.4	526.1	89.4	0.975	1.00	1.001	0.003	0.999	0.019	0.006	0.37	1.09
36	60	6.034	0.976	1027.04	1452.3	526.0	89.4	0.971	1.00	1.000	0.009	0.996	0.019	0.006	0.33	1.11
37	60	5.527	0.976	1027.25	1452.5	526.2	89.4	0.971	1.00	1.000	0.010	0.995	0.020	0.006	0.35	1.16
38	60	4.935	0.976	1026.70	1452.2	525.9	89.3	0.970	0.99	1.001	0.012	0.994	0.020	0.005	0.30	1.16
39	60	4.449	0.976	1027.01	1452.8	526.1	89.6	0.971	1.00	1.001	0.009	0.996	0.020	0.007	0.41	1.15
40	60	3.942	0.976	1027.16	1452.5	526.2	89.3	0.966	0.99	1.001	0.020	0.990	0.020	0.005	0.30	1.13
41	60	3.449	0.976	1027.30	1452.6	526.2	89.5	0.966	0.99	1.001	0.019	0.991	0.020	0.005	0.30	1.13
42	60	2.939	0.976	1026.90	1452.6	526.0	89.6	0.965	0.99	1.001	0.019	0.991	0.020	0.001	0.08	1.13
43	60	2.449	0.976	1027.55	1452.7	526.4	89.6	0.962	0.99	1.001	0.026	0.987	0.019	0.005	0.28	1.11
44	60	2.038	0.976	1027.37	1452.4	526.4	89.4	0.969	0.99	1.001	0.013	0.994	0.019	0.012	0.67	1.09
45	60	1.643	0.976	1026.41	1452.0	525.7	89.1	0.940	0.97	0.999	0.059	0.969	0.018	0.004	0.24	1.09
46	60	1.212	0.976	1027.34	1452.5	526.1	89.7	0.942	0.97	1.001	0.061	0.970	0.018	0.001	0.09	1.05
47	60	0.731	0.976	1027.05	1452.5	526.1	89.5	0.944	0.97	1.001	0.056	0.972	0.017	0.005	0.30	1.02
48	60	0.008	0.976	1026.75	1452.3	525.9	89.3	0.944	0.97	1.001	0.057	0.972	0.017	0.005	0.29	1.01
49	60	-0.506	0.975	1025.50	1452.4	525.7	89.6	0.943	0.97	1.001	0.057	0.972	0.017	0.005	0.30	0.99
50	60	-1.052	0.975	1026.29	1451.8	525.6	89.2	0.943	0.97	1.000	0.058	0.971	0.016	0.006	0.34	0.94
51	60	-1.449	0.976	1026.76	1452.5	525.9	89.5	0.944	0.97	1.000	0.055	0.973	0.014	0.006	0.34	0.83
52	60	-1.978	0.975	1026.30	1452.2	525.6	89.5	0.944	0.97	1.001	0.055	0.973	0.015	0.006	0.35	0.89
53	60	-2.449	0.975	1026.15	1452.1	525.4	89.5	0.944	0.97	1.001	0.055	0.973	0.015	0.006	0.36	0.90
54	60	-3.044	0.975	1026.23	1451.9	525.4	89.6	0.944	0.97	1.000	0.054	0.973	0.015	0.008	0.46	0.89
55	60	-3.505	0.975	1026.08	1452.0	525.3	89.7	0.943	0.97	1.002	0.058	0.972	0.014	0.011	0.63	0.84
56	60	-4.062	0.975	1025.68	1451.6	525.1	89.4	0.944	0.97	1.001	0.054	0.973	0.015	0.006	0.37	0.87
57	60	-4.548	0.975	1026.17	1452.0	525.2	89.9	0.979	1.00	1.004	-0.001	1.003	0.014	0.007	0.39	0.82
58	60	-5.059	0.976	1025.97	1452.6	524.9	90.0	0.944	0.97	1.000	0.053	0.974	0.014	0.006	0.35	0.85
59	60	-5.412	0.974	1025.66	1451.4	524.8	89.5	0.959	0.99	1.001	0.026	0.987	0.014	0.006	0.37	0.83

TEST	PART	REYNO-6	ALPHA	WING	YI	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	74	2.991	5.07 6 PCT		0.02	-14.05	5	401	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	VM	PT	Q	TT	RL	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
5	1	24.000	0.975	1027.43	1454.2	526.3	90.6	0.972	1.00	1.000	0.006	0.993	0.005	0.085	4.91	0.31
7	2	23.531	0.975	1027.34	1455.3	526.6	90.7	0.975	1.00	1.000	0.001	0.996	0.006	0.085	4.88	0.36
9	3	23.045	0.976	1028.07	1456.7	527.4	90.7	0.975	1.00	1.000	0.001	0.996	0.004	0.085	4.87	0.25
11	4	22.540	0.975	1026.98	1456.1	525.7	90.7	0.971	1.00	1.000	0.005	0.993	0.007	0.086	4.93	0.38
13	5	22.039	0.975	1025.85	1455.3	526.4	90.6	0.981	1.01	1.000	-0.011	1.002	0.010	0.086	4.88	0.58
15	6	21.536	0.975	1027.33	1455.3	526.6	90.7	0.978	1.00	1.000	-0.004	0.998	0.007	0.086	4.94	0.42
17	7	21.036	0.975	1027.59	1455.4	526.8	90.7	0.983	1.01	1.000	-0.013	1.003	0.007	0.086	4.93	0.41
19	8	20.545	0.975	1027.87	1455.4	526.8	91.0	1.008	1.03	1.003	-0.051	1.024	0.007	0.086	4.82	0.41
21	9	20.033	0.975	1027.21	1454.7	526.4	90.7	0.986	1.01	1.000	-0.021	1.007	0.007	0.084	4.74	0.39
23	10	19.530	0.975	1027.00	1454.4	526.2	90.4	0.987	1.01	1.000	-0.020	1.007	0.007	0.084	4.79	0.39
25	11	19.026	0.975	1027.14	1454.6	526.2	90.8	0.985	1.01	1.000	-0.018	1.006	0.007	0.083	4.72	0.40
27	12	18.542	0.975	1027.44	1454.8	526.4	90.8	0.980	1.00	1.000	-0.007	1.001	0.004	0.082	4.67	0.25
29	13	18.036	0.975	1027.22	1453.8	526.1	90.5	0.977	1.00	1.000	-0.003	0.998	0.005	0.081	4.63	0.31
31	14	17.521	0.975	1027.61	1454.0	526.3	90.8	0.976	1.00	1.000	-0.002	0.998	0.008	0.081	4.62	0.45
33	15	17.045	0.976	1028.09	1454.0	526.5	90.9	0.973	1.00	1.000	0.005	0.994	0.007	0.080	4.63	0.39
35	16	16.541	0.976	1028.06	1454.1	526.6	90.6	0.964	0.99	1.001	0.021	0.987	0.012	0.081	4.67	0.68
37	17	16.023	0.976	1028.26	1453.6	526.5	90.7	0.960	0.99	1.000	0.014	0.990	0.007	0.080	4.64	0.41
39	18	15.528	0.976	1028.21	1453.3	526.3	90.9	0.963	0.99	1.000	0.022	0.986	0.007	0.081	4.71	0.43
41	19	15.031	0.976	1027.96	1453.4	526.2	90.9	0.944	0.97	1.000	0.054	0.970	0.005	0.081	4.80	0.28
43	20	14.536	0.976	1028.21	1453.3	526.3	90.9	0.972	1.00	1.001	0.008	0.993	0.007	0.080	4.61	0.42
45	21	14.022	0.976	1027.80	1452.7	526.0	90.6	0.958	0.99	1.000	0.030	0.982	0.007	0.083	4.84	0.40
47	22	13.538	0.976	1027.68	1452.7	525.9	90.8	0.942	0.97	1.000	0.058	0.967	0.008	0.083	4.92	0.50
49	23	13.033	0.975	1027.79	1452.9	525.9	90.9	0.944	0.97	1.000	0.055	0.969	0.007	0.085	4.99	0.39
51	24	12.543	0.976	1028.02	1452.4	526.0	90.7	0.945	0.97	1.000	0.055	0.969	0.007	0.085	5.02	0.42
53	25	12.034	0.976	1027.67	1452.1	525.7	90.6	0.958	0.99	1.000	0.030	0.981	0.007	0.086	5.02	0.42
55	26	11.532	0.976	1027.94	1452.8	526.0	90.8	0.959	0.99	1.000	0.028	0.982	0.008	0.086	5.03	0.44
57	27	11.033	0.975	1027.57	1452.5	525.7	90.9	0.961	0.99	1.000	0.024	0.984	0.008	0.089	5.14	0.44
59	28	10.531	0.976	1028.65	1452.3	526.2	90.8	0.967	0.99	0.999	0.016	0.988	0.008	0.087	5.05	0.45
61	29	10.029	0.977	1028.69	1452.7	526.6	90.4	0.971	0.99	1.000	0.010	0.991	0.007	0.089	5.12	0.41
63	30	9.529	0.974	1026.37	1452.1	524.9	90.9	0.970	1.00	1.000	0.007	0.993	0.007	0.089	5.11	0.43

TEST	PART	HEAIO-6	ALPHA	WING	YT	ZT	RUN	SURVEY	DATE
TF-445	75	2.990	5.07	4 PCT	0.03	-14.04	5	401	4-14-77

AEDC PROPULSION WIND TUNNEL
TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XT	H	VM	PT	Q	TT	ML	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	31	9.034	0.976	1026.15	1452.1	525.9	90.7	0.980	1.00	1.000	-0.007	1.000	0.005	0.089	5.07	0.28
3	32	8.525	0.975	1027.19	1451.4	525.3	90.5	0.973	1.00	1.000	0.004	0.994	0.007	0.088	5.08	0.42
5	33	8.044	0.974	1026.61	1451.6	525.0	90.7	0.975	1.00	1.000	-0.001	0.997	0.008	0.088	5.05	0.47
7	34	7.533	0.975	1027.46	1451.9	525.5	90.7	0.980	1.00	1.000	-0.007	1.000	0.008	0.087	4.99	0.44
9	35	7.030	0.975	1026.69	1451.0	524.9	90.3	0.973	1.00	1.000	0.002	0.995	0.008	0.086	4.97	0.45
11	36	6.535	0.975	1026.85	1451.7	525.1	90.7	0.967	0.99	1.000	0.014	0.989	0.006	0.086	4.97	0.35
13	37	6.028	0.975	1027.54	1451.7	525.4	90.7	0.966	0.99	1.000	0.016	0.988	0.008	0.088	5.07	0.45
15	38	5.537	0.975	1027.22	1451.1	525.1	90.7	0.965	0.99	1.000	0.018	0.987	0.007	0.086	4.96	0.43
17	39	5.037	0.975	1027.53	1451.5	525.4	90.7	0.967	0.99	1.000	0.014	0.989	0.008	0.085	4.93	0.47
19	40	4.537	0.975	1027.39	1451.4	525.3	90.6	0.962	0.99	1.000	0.023	0.985	0.007	0.086	4.99	0.43
21	41	4.039	0.976	1027.48	1451.2	525.4	90.4	0.961	0.99	1.000	0.025	0.984	0.008	0.086	4.99	0.46
23	42	3.529	0.975	1027.25	1450.8	525.0	90.7	0.960	0.99	1.000	0.027	0.983	0.006	0.087	5.05	0.35
25	43	3.035	0.975	1027.37	1451.2	525.2	90.7	0.960	0.99	1.000	0.026	0.983	0.008	0.087	5.05	0.47
27	44	2.543	0.975	1027.23	1451.3	525.2	90.6	0.981	1.00	1.004	-0.003	1.001	0.008	0.089	5.07	0.45
29	45	2.046	0.975	1027.31	1451.1	525.1	90.8	0.958	0.99	1.000	0.029	0.982	0.008	0.088	5.14	0.48
31	46	1.528	0.975	1027.20	1450.7	525.0	90.6	0.959	0.99	1.000	0.029	0.982	0.008	0.089	5.18	0.44
33	47	1.048	0.975	1027.43	1451.3	525.2	90.7	0.944	0.97	1.000	0.054	0.969	0.008	0.089	5.27	0.46
35	48	0.545	0.975	1027.35	1451.0	525.0	90.8	0.958	0.99	1.000	0.029	0.981	0.007	0.090	5.24	0.41
37	49	0.032	0.975	1027.65	1450.8	525.2	90.7	0.958	0.99	1.000	0.030	0.981	0.007	0.091	5.27	0.43
39	50	-0.454	0.975	1026.90	1450.7	524.7	90.7	0.959	0.99	1.000	0.027	0.982	0.008	0.091	5.29	0.48
41	51	-0.958	0.975	1027.34	1450.8	525.0	90.8	0.962	0.99	1.000	0.023	0.984	0.008	0.092	5.34	0.45
43	52	-1.486	0.975	1027.46	1451.0	525.1	90.7	0.970	1.00	1.001	0.010	0.991	0.004	0.092	5.32	0.25
45	53	-1.969	0.975	1027.45	1450.8	525.1	90.7	0.966	0.99	1.000	0.017	0.987	0.008	0.093	5.36	0.48
47	54	-2.466	0.975	1027.59	1450.7	525.1	90.7	0.963	0.99	1.000	0.020	0.985	0.008	0.093	5.39	0.47
49	55	-2.963	0.975	1027.35	1451.0	525.0	90.8	0.972	1.00	1.000	0.006	0.993	0.005	0.093	5.36	0.28
51	56	-3.473	0.975	1026.75	1450.4	524.7	90.5	0.967	0.99	1.000	0.014	0.989	0.008	0.093	5.39	0.48
53	57	-3.972	0.975	1026.90	1450.7	524.7	90.7	0.991	1.01	1.005	-0.021	1.010	0.008	0.094	5.34	0.46
55	58	-4.466	0.974	1026.68	1450.3	524.5	90.7	0.966	0.99	1.000	0.014	0.988	0.008	0.094	5.42	0.48
57	59	-4.925	0.974	1026.78	1450.3	524.5	90.7	0.970	1.00	1.000	0.009	0.991	0.008	0.093	5.36	0.49
59	60	-5.429	0.974	1026.53	1450.0	524.4	90.5	0.968	0.99	1.000	0.011	0.990	0.009	0.093	5.39	0.50

TEST	PART	RE X10-6	ALPHA	WING	YI	ZI	ROW	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	79	3.001	5.07 & PCT		0.00	-13.19	5	401	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	AI	M	PI	PT	Q	TT	RL	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	25	24.051	0.973	1025.30	1455.5	525.4	90.3	0.969	1.00	1.001	0.008	0.997	0.007	-0.005	-0.28	0.40
2	25	23.028	0.973	1025.16	1454.1	526.8	90.1	0.969	1.01	1.004	-0.022	1.014	0.007	-0.005	-0.29	0.41
3	25	21.914	0.975	1027.26	1460.2	528.5	90.4	0.976	1.00	1.001	0.001	1.000	0.007	-0.006	-0.32	0.42
4	25	21.143	0.973	1025.04	1460.3	527.6	90.5	0.970	1.00	1.001	0.006	0.997	0.007	-0.003	-0.19	0.40
5	25	19.939	0.974	1026.02	1459.9	527.7	90.4	0.982	1.01	1.000	-0.013	1.007	0.005	-0.004	-0.23	0.28
6	25	19.052	0.974	1025.40	1459.1	527.3	90.1	0.984	1.01	1.000	-0.017	1.009	0.007	-0.005	-0.30	0.42
7	25	17.970	0.974	1026.29	1460.6	528.1	90.5	0.992	1.02	1.001	-0.029	1.015	0.006	-0.007	-0.39	0.31
8	25	17.052	0.974	1026.22	1461.0	528.3	90.4	0.979	1.00	1.001	-0.007	1.004	0.007	-0.008	-0.47	0.42
9	25	15.949	0.975	1026.35	1460.3	528.2	90.1	0.969	1.00	1.001	0.010	0.995	0.007	-0.009	-0.51	0.41
10	25	14.933	0.974	1026.09	1460.4	527.9	90.5	0.962	0.99	1.001	0.021	0.990	0.007	-0.008	-0.44	0.42
11	25	13.978	0.974	1025.97	1460.9	527.8	90.4	0.944	0.97	1.001	0.053	0.974	0.007	-0.007	-0.41	0.41
12	25	13.049	0.974	1026.00	1460.4	527.9	90.4	0.943	0.97	1.000	0.054	0.973	0.007	-0.006	-0.35	0.38
13	25	11.921	0.974	1025.76	1460.5	527.8	90.4	0.944	0.97	1.001	0.053	0.974	0.007	-0.004	-0.22	0.43
14	25	11.064	0.975	1027.06	1460.9	528.6	90.1	0.969	0.99	1.001	0.012	0.994	0.012	-0.003	-0.17	0.69
15	25	9.924	0.976	1027.53	1461.8	529.2	90.5	0.965	0.99	1.001	0.020	0.991	0.007	-0.001	-0.06	0.41
16	25	8.942	0.976	1027.35	1462.0	529.3	90.3	0.969	0.99	1.001	0.013	0.994	0.008	-0.001	-0.03	0.45
17	25	7.963	0.976	1027.81	1463.4	529.9	90.4	0.977	1.00	1.001	-0.001	1.001	0.007	-0.001	-0.06	0.39
18	25	6.897	0.976	1027.76	1463.3	529.9	90.4	0.972	1.00	1.001	0.008	0.996	0.010	-0.002	-0.10	0.58
20	25	5.985	0.972	1024.38	1458.2	523.4	90.4	0.940	0.97	0.999	0.054	0.972	0.008	-0.003	-0.16	0.45
21	25	4.999	0.974	1025.56	1461.8	524.7	90.2	0.968	1.00	1.000	0.009	0.995	0.007	-0.002	-0.14	0.40
22	25	3.991	0.974	1025.99	1462.8	525.2	90.4	0.984	0.99	1.001	0.018	0.992	0.007	-0.002	-0.13	0.38
23	25	3.085	0.973	1024.93	1462.8	524.7	90.1	0.959	0.99	1.001	0.025	0.988	0.007	-0.002	-0.12	0.41
24	25	1.918	0.974	1026.03	1456.3	526.5	90.3	0.968	0.99	1.001	0.013	0.995	0.007	-0.001	-0.08	0.41
25	25	0.984	0.975	1027.07	1460.4	528.5	90.4	0.969	0.99	1.001	0.014	0.994	0.007	-0.000	-0.00	0.39
26	25	0.069	0.974	1026.25	1461.6	528.5	90.4	0.963	0.99	1.001	0.021	0.990	0.007	-0.000	-0.02	0.38
27	25	-0.990	0.974	1026.45	1464.5	529.6	90.5	0.960	0.99	1.001	0.025	0.988	0.007	0.002	0.13	0.39
28	25	-1.938	0.975	1026.47	1462.9	529.1	90.3	0.944	0.97	1.000	0.054	0.973	0.007	0.003	0.16	0.41
29	25	-3.028	0.974	1026.45	1459.6	527.9	90.4	0.959	0.99	1.000	0.026	0.987	0.004	0.003	0.19	0.25
30	25	-3.940	0.973	1025.16	1456.7	526.3	90.1	0.944	0.97	1.000	0.051	0.974	0.007	0.003	0.19	0.44
31	25	-5.034	0.973	1025.04	1455.2	525.6	90.3	0.964	0.99	1.000	0.015	0.993	0.008	0.007	0.40	0.46

TEST	PART	REX10-6	ALPHA	WING	YI	ZI	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	83	2.966	5.05 4 PCI		14.16	0.0	5	403	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	VM	PI	Q	TT	ML	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	25	-4.968	0.976	1027.48	1446.3	523.6	90.4	0.962	0.99	1.000	0.024	0.988	0.017	0.006	0.32	1.00
2	25	-3.956	0.974	1026.78	1444.5	522.4	90.7	0.960	0.99	1.000	0.025	0.988	0.017	0.006	0.32	0.99
3	25	-2.959	0.974	1025.79	1445.2	522.3	90.5	0.968	1.00	1.001	0.011	0.995	0.017	0.006	0.32	0.97
4	25	-2.078	0.975	1027.10	1446.9	523.5	90.7	0.966	0.99	1.001	0.016	0.992	0.017	0.005	0.31	1.00
5	25	-0.988	0.976	1027.80	1448.7	524.7	90.3	0.968	0.99	1.001	0.016	0.993	0.019	0.005	0.31	1.09
6	25	0.052	0.976	1027.12	1450.4	525.1	90.7	0.962	0.99	1.001	0.025	0.988	0.020	0.005	0.30	1.14
7	25	1.149	0.976	1027.54	1452.2	525.8	90.4	0.971	1.00	1.001	0.009	0.996	0.021	0.007	0.39	1.19
8	25	1.948	0.977	1029.06	1452.5	526.6	90.7	0.963	0.99	1.001	0.026	0.988	0.021	0.005	0.28	1.20
9	25	3.033	0.975	1026.98	1449.0	524.4	90.3	0.943	0.97	1.000	0.056	0.972	0.023	0.005	0.30	1.33
10	25	3.985	0.975	1027.48	1447.0	523.8	90.5	0.959	0.99	1.000	0.028	0.986	0.022	0.005	0.30	1.30
11	25	4.856	0.976	1027.62	1445.1	523.2	90.4	0.965	0.99	1.000	0.019	0.990	0.023	0.004	0.25	1.34
12	25	6.165	0.975	1027.17	1442.5	522.0	90.6	0.970	1.00	1.000	0.009	0.995	0.023	0.006	0.36	1.33
13	25	7.037	0.975	1026.80	1440.5	521.1	90.2	0.974	1.00	1.002	0.004	0.999	0.022	0.010	0.58	1.25
14	25	8.046	0.975	1027.59	1439.1	520.9	90.7	0.982	1.01	1.001	-0.011	1.006	0.019	0.006	0.35	1.10
15	25	9.029	0.975	1026.65	1437.4	519.9	90.7	0.973	1.00	1.001	0.004	0.998	0.018	0.006	0.36	1.04
16	25	10.024	0.975	1027.38	1435.8	519.7	90.5	0.976	1.00	1.001	0.000	1.000	0.020	0.008	0.48	1.16
17	25	10.966	0.974	1026.85	1435.6	519.2	90.8	0.969	1.00	1.001	0.011	0.995	0.021	0.006	0.36	1.22
18	25	11.996	0.975	1026.66	1435.2	519.2	90.4	0.965	0.99	1.001	0.017	0.992	0.022	0.007	0.41	1.29
19	25	13.041	0.975	1027.16	1435.6	519.5	90.6	0.964	0.99	1.001	0.021	0.990	0.023	0.006	0.35	1.34
20	25	14.017	0.975	1027.13	1439.9	521.0	90.7	0.980	1.00	1.001	-0.006	1.004	0.026	0.009	0.51	1.46
21	25	15.066	0.975	1027.39	1442.2	521.9	90.8	0.982	1.01	1.001	-0.009	1.005	0.027	0.010	0.55	1.52
22	25	15.995	0.975	1027.30	1442.9	522.3	90.4	0.981	1.00	1.001	-0.008	1.004	0.027	0.011	0.63	1.55
23	25	17.146	0.975	1027.53	1444.8	522.9	90.7	0.992	1.01	1.001	-0.027	1.014	0.026	0.014	0.79	1.46
24	25	17.919	0.975	1027.51	1445.3	523.1	90.7	1.011	1.03	1.001	-0.060	1.030	0.022	0.016	0.90	1.22
25	25	19.041	0.976	1028.20	1444.2	523.1	90.6	1.039	1.05	1.001	-0.105	1.053	0.014	0.020	1.08	0.76
26	25	19.783	0.976	1028.15	1443.2	522.7	90.6	1.060	1.07	1.000	-0.141	1.070	0.006	0.023	1.24	0.34
27	25	21.042	0.975	1027.18	1440.9	521.3	90.7	0.939	0.97	1.000	0.062	0.968	0.009	0.027	1.59	0.55
28	25	21.964	0.974	1026.35	1440.1	520.7	90.6	0.967	0.99	1.003	0.017	0.993	0.013	0.026	1.48	0.74
29	25	22.937	0.975	1026.72	1439.3	520.6	90.5	0.971	1.00	1.000	0.007	0.996	0.007	0.025	1.42	0.43
30	25	23.845	0.974	1026.75	1439.4	520.5	90.8	0.963	0.99	1.000	0.020	0.990	0.015	0.024	1.38	0.85

TEST	PART	REX10-6	ALFBM	WING	YT	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	85	2.997	-5.12	4 PCT	0.00	-14.14	5	501	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XT	M	VM	PT	Q	TI	ML	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
0	25	-5.047	0.975	1027.18	1463.9	529.6	90.8	0.966	0.99	1.001	0.017	0.992	0.007	0.006	0.33	0.43
1	25	-4.104	0.975	1027.12	1460.4	521.2	90.5	0.972	1.00	1.001	0.007	0.997	0.008	0.006	0.33	0.46
2	25	-3.024	0.976	1025.12	1452.5	524.4	90.8	0.986	1.01	1.003	-0.020	1.012	0.008	0.005	0.29	0.46
4	25	-1.975	0.974	1026.14	1452.0	524.9	90.5	0.941	0.97	1.000	0.057	0.971	0.008	0.004	0.25	0.48
5	25	-1.056	0.974	1026.01	1452.3	524.9	90.6	0.965	0.99	1.001	0.016	0.992	0.010	0.004	0.22	0.58
6	25	-0.033	0.977	1028.74	1454.8	527.3	90.6	0.962	0.99	1.001	0.027	0.987	0.008	0.002	0.12	0.45
7	25	1.017	0.976	1028.53	1450.8	525.7	90.7	0.941	0.97	1.000	0.061	0.969	0.007	0.000	0.01	0.44
8	25	2.031	0.973	1025.31	1451.2	524.1	90.6	0.958	0.99	1.001	0.027	0.987	0.008	-0.000	-0.01	0.44
9	25	3.040	0.975	1027.67	1454.3	526.4	90.8	0.967	0.99	1.001	0.017	0.993	0.007	-0.002	-0.12	0.38
10	25	4.044	0.977	1029.78	1452.7	526.5	90.7	0.968	0.99	1.000	0.015	0.992	0.007	-0.003	-0.16	0.42
11	25	4.977	0.977	1028.60	1451.3	526.0	90.7	0.971	1.00	1.000	0.010	0.995	0.008	-0.003	-0.17	0.45
12	25	4.385	0.976	1028.12	1450.4	525.3	90.7	0.977	1.00	1.000	-0.001	1.001	0.007	-0.003	-0.14	0.43
14	25	6.989	0.975	1027.09	1452.3	525.5	90.6	0.992	1.01	1.001	-0.028	1.014	0.012	0.000	0.02	0.68
15	25	7.984	0.975	1027.14	1452.4	525.5	90.6	0.992	1.01	1.000	-0.029	1.015	0.005	0.002	0.11	0.26
16	25	8.979	0.976	1027.46	1451.7	525.6	90.4	0.985	1.01	1.000	-0.016	1.008	0.008	0.005	0.27	0.44
17	25	10.017	0.976	1027.84	1451.1	525.7	90.1	0.981	1.00	1.001	-0.007	1.004	0.008	0.002	0.14	0.45
18	25	10.983	0.975	1026.50	1453.6	524.9	89.8	0.968	0.99	1.000	0.013	0.994	0.007	0.002	0.12	0.41
19	25	11.982	0.974	1026.25	1450.9	524.8	90.1	0.977	1.00	1.001	-0.003	1.002	0.008	0.003	0.16	0.45
20	25	13.007	0.975	1026.36	1452.0	525.2	90.1	0.982	1.01	1.000	-0.013	1.007	0.008	0.002	0.13	0.43
21	25	13.991	0.975	1026.54	1452.7	525.6	90.1	0.992	1.01	1.001	-0.028	1.014	0.006	0.003	0.19	0.34
22	25	14.978	0.974	1025.66	1452.3	525.2	89.7	0.996	1.02	1.001	-0.036	1.018	0.008	0.006	0.32	0.47
23	25	15.973	0.975	1026.28	1453.3	525.6	90.1	1.002	1.02	1.001	-0.046	1.023	0.008	0.009	0.51	0.47
24	25	17.036	0.974	1025.72	1453.7	525.5	90.0	1.010	1.03	1.001	-0.060	1.030	0.009	0.014	0.80	0.49
25	25	17.940	0.974	1025.83	1454.1	525.7	90.1	1.018	1.04	1.000	-0.075	1.037	0.009	0.018	1.00	0.48
26	25	19.023	0.974	1025.52	1454.6	525.8	90.0	1.037	1.05	1.001	-0.107	1.054	0.009	0.024	1.31	0.48
27	25	20.019	0.974	1025.08	1454.5	525.6	89.7	1.048	1.06	1.000	-0.125	1.062	0.009	0.029	1.57	0.49
28	25	20.996	0.973	1024.92	1453.5	525.0	90.0	0.981	1.01	1.000	-0.014	1.006	0.007	0.032	1.84	0.43
29	25	22.024	0.973	1025.01	1453.5	525.0	90.1	0.937	0.97	1.000	0.062	0.968	0.008	0.028	1.65	0.45
30	25	22.975	0.974	1025.52	1452.6	525.1	89.9	0.938	0.97	1.000	0.061	0.969	0.007	0.025	1.49	0.43
31	25	24.063	0.973	1024.97	1451.4	524.4	89.8	0.941	0.97	1.000	0.057	0.971	0.008	0.024	1.40	0.45

TEST	PART	PRESSURE	ALPHA	WING	Y	Z	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	25	3.008	0.01	4 PCT	4.07	-1.00	4	30R	4-12-77	TRANSONIC 16T

INNER FLOWFIELD SURVEY SUMMARY

POINT	GP	X	M	PW	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
4	1	18.457	1.026	1070.[illegible]	1433.5	541.1	89.9	1.010	0.99	0.998	0.022	0.988	0.011	0.002	0.11	0.64
6	2	18.483	1.025	1069.95	1433.1	540.6	89.8	0.994	0.97	0.997	0.047	0.974	0.015	0.010	0.60	0.86
8	3	18.040	1.026	1070.84	1435.0	542.0	89.7	1.139	1.09	0.994	-0.183	1.088	0.015	0.029	1.54	0.78
10	4	17.538	1.026	1072.43	1433.7	542.0	89.7	1.210	1.14	0.993	-0.283	1.137	-0.008	0.070	3.51	-0.39
12	5	17.038	1.023	1069.64	1433.0	540.2	89.7	1.168	1.11	0.994	-0.229	1.111	-0.005	0.044	2.25	-0.26
14	6	16.527	1.026	1071.01	1431.9	540.7	89.7	1.093	1.05	0.998	-0.107	1.053	-0.002	0.012	0.68	-0.13
16	7	16.034	1.026	1070.75	1433.5	541.2	89.6	1.046	1.02	0.999	-0.034	1.016	-0.002	-0.001	-0.03	-0.09
18	8	15.535	1.026	1071.21	1434.2	541.7	89.6	1.017	0.99	0.999	0.014	0.992	-0.001	-0.009	-0.51	-0.05
20	9	15.036	1.027	1071.84	1433.9	542.9	89.4	1.000	0.98	1.000	0.043	0.978	0.001	-0.020	-1.16	0.05
22	10	14.537	1.025	1070.20	1433.2	540.8	89.6	0.988	0.97	0.999	0.060	0.969	0.005	-0.027	-1.60	0.30
24	11	14.037	1.024	1069.58	1431.8	539.9	89.8	0.977	0.96	0.999	0.077	0.960	0.011	-0.034	-2.04	0.63
26	12	13.538	1.025	1070.56	1431.8	540.3	89.9	0.941	0.93	0.999	0.137	0.930	0.019	-0.040	-2.44	1.14
28	13	13.030	1.025	1070.54	1432.9	540.7	90.0	0.936	0.93	1.000	0.147	0.925	0.030	-0.038	-2.35	1.85
30	14	12.537	1.025	1069.50	1432.6	540.3	89.5	0.932	0.92	0.999	0.152	0.922	0.038	-0.026	-1.61	2.33
32	15	12.041	1.025	1070.31	1433.5	541.1	89.7	0.942	0.93	0.999	0.136	0.931	0.029	-0.014	-0.87	1.78
34	16	11.544	1.026	1070.87	1434.7	541.7	89.7	0.942	0.93	0.999	0.136	0.930	0.029	-0.008	-0.48	1.81
36	17	11.041	1.026	1071.33	1435.6	542.2	89.8	0.965	0.95	0.999	0.099	0.950	0.022	-0.005	-0.28	1.35
38	18	10.537	1.026	1070.66	1436.4	542.2	89.8	0.994	0.97	0.999	0.049	0.974	0.015	-0.002	-0.12	0.86

TEST	PART	REX10-6	ALPHA	WING	Y	Z	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	27	3.009	5.00	4 PCT	4.08	-0.96	4	308	4-12-77	TRANSONIC 16T

INNER FLOWFIELD SURVEY SUMMARY

POINT	GP	X	M	V	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
7	1	19.027	1.025	1070.14	1432.5	540.4	89.8	1.034	1.01	0.998	-0.016	1.005	0.052	0.045	2.58	2.94
9	2	18.532	1.025	1070.06	1433.3	540.6	89.6	1.030	1.00	0.997	-0.011	1.001	0.053	0.052	2.96	3.01
11	3	18.029	1.027	1071.55	1428.9	539.9	89.5	1.120	1.07	0.999	-0.148	1.070	0.050	0.070	3.76	2.68
13	4	17.536	1.025	1070.20	1430.7	539.8	89.8	1.085	1.05	0.997	-0.100	1.045	0.040	0.058	3.20	2.19
15	5	17.026	1.025	1069.74	1436.9	542.0	89.5	1.061	1.03	0.999	-0.058	1.027	0.033	0.044	2.45	1.86
17	6	16.517	1.025	1070.36	1440.6	543.5	89.9	1.006	0.98	1.000	0.030	0.984	0.035	0.023	1.34	2.05
19	7	16.024	1.026	1071.08	1430.7	540.1	90.0	0.971	0.95	1.003	0.094	0.954	0.039	0.010	0.60	2.33
21	8	15.532	1.025	1069.82	1426.7	538.3	89.4	0.940	0.93	1.002	0.144	0.928	0.044	0.005	0.30	2.70
23	9	15.025	1.025	1070.00	1430.7	539.7	89.7	0.922	0.92	1.000	0.169	0.914	0.049	-0.002	-0.12	3.06
25	10	14.519	1.026	1070.75	1431.2	540.2	89.8	0.906	0.90	1.000	0.198	0.899	0.060	-0.007	-0.44	3.84
27	11	14.031	1.025	1070.10	1432.8	540.6	89.6	0.899	0.90	1.002	0.212	0.893	0.068	-0.000	-0.03	4.38
29	12	13.524	1.026	1070.58	1434.9	541.6	89.7	0.876	0.87	1.002	0.252	0.871	0.084	0.005	0.34	5.50
31	13	13.032	1.026	1071.29	1433.4	541.3	89.9	0.857	0.86	1.002	0.286	0.851	0.104	0.028	1.87	7.00
33	14	12.527	1.026	1070.87	1430.1	539.8	90.0	0.873	0.87	1.001	0.256	0.863	0.101	0.072	4.74	6.65
35	15	12.017	1.026	1071.01	1432.1	540.7	89.9	0.904	0.90	1.001	0.203	0.891	0.076	0.093	5.94	4.86
37	16	11.530	1.026	1070.46	1436.0	542.0	89.7	0.922	0.91	1.002	0.173	0.908	0.056	0.096	6.06	3.50
39	17	11.033	1.026	1071.18	1437.8	542.9	89.8	0.933	0.92	1.001	0.155	0.918	0.042	0.094	5.86	2.64
41	18	10.519	1.026	1070.82	1436.7	542.3	89.8	0.934	0.92	0.995	0.145	0.919	0.033	0.093	5.79	2.03

TEST	PART	REx10-6	ALFHM	WING	Y	Z	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	31	3.004	-5.07	4 PCT	4.07	-1.12	4	30R	4-12-77	TRANSONIC 16T

INNER FLOWFIELD SURVEY SUMMARY

POINT	GP	X	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
11	1	19.159	1.026	1071.05	1436.2	542.2	90.0	1.017	0.99	0.995	0.008	0.992	-0.029	-0.033	-1.68	-1.68
13	2	18.508	1.026	1071.63	1435.8	542.3	90.1	0.976	0.96	0.978	0.051	0.958	-0.022	-0.029	-1.75	-1.32
36	2	17.971	1.025	1069.86	1433.1	540.7	89.5	1.289	1.20	0.979	-0.409	1.196	-0.035	0.075	3.61	-1.68
43	2	17.971	1.025	1070.20	1433.0	540.7	89.8	1.291	1.20	0.979	-0.411	1.197	-0.038	0.075	3.59	-1.82
47	2	17.971	1.025	1070.30	1433.4	540.8	89.9	1.290	1.20	0.979	-0.410	1.196	-0.034	0.075	3.61	-1.63
49	3	17.975	1.024	1069.24	1432.1	539.9	89.6	1.289	1.20	0.979	-0.410	1.196	-0.034	0.075	3.60	-1.63
51	4	17.521	1.025	1070.28	1432.6	540.4	90.1	1.273	1.19	0.982	-0.386	1.185	-0.037	0.062	3.01	-1.81
53	5	16.993	1.025	1069.49	1432.2	540.1	89.6	1.234	1.16	0.992	-0.324	1.159	-0.032	0.023	1.14	-1.60
55	6	16.524	1.025	1069.94	1432.5	540.2	90.0	1.220	1.15	0.994	-0.302	1.149	-0.038	0.008	0.38	-1.90
57	7	16.019	1.025	1070.44	1432.7	540.7	89.8	1.208	1.14	0.994	-0.285	1.140	-0.036	-0.005	-0.27	-1.81
59	8	15.506	1.026	1070.83	1432.9	540.9	89.9	1.201	1.14	0.996	-0.271	1.134	-0.046	-0.017	-0.85	-2.32
61	9	15.027	1.026	1071.29	1433.4	541.2	90.1	1.187	1.12	0.996	-0.251	1.123	-0.048	-0.030	-1.54	-2.46
63	10	14.521	1.025	1070.35	1433.1	540.8	89.7	1.182	1.12	0.996	-0.245	1.119	-0.054	-0.038	-1.95	-2.75
65	11	13.995	1.025	1070.79	1433.4	540.9	90.1	1.175	1.12	0.995	-0.236	1.114	-0.060	-0.050	-2.55	-3.10
67	12	13.521	1.025	1070.40	1433.2	540.9	89.7	1.226	1.15	0.988	-0.315	1.149	-0.085	-0.037	-1.86	-4.22
69	13	13.019	1.026	1071.29	1433.6	541.3	90.0	1.206	1.14	0.999	-0.273	1.123	-0.124	-0.139	-7.04	-6.29
71	14	12.512	1.026	1070.81	1433.8	541.4	89.5	1.065	1.03	1.000	-0.061	1.018	-0.029	-0.160	-8.94	-1.65
73	15	12.029	1.025	1070.51	1433.6	541.0	89.8	0.978	0.96	1.001	0.079	0.951	0.011	-0.140	-8.37	0.65
75	16	11.520	1.027	1071.90	1434.4	541.9	89.9	0.943	0.93	1.001	0.140	0.923	0.023	-0.120	-7.42	1.41
77	17	10.997	1.027	1071.66	1434.9	542.0	90.0	0.961	0.95	1.002	0.109	0.940	0.019	-0.109	-6.60	1.16

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DATA REPORT FOR A TEST PROGRAM TO STUDY TRANSONIC FLOW FIELDS A--ETC(U)
JUL 77 S C PERKINS, S S STAHARA, M J HEMSCH F44620-75-C-0047
UNCLASSIFIED NEAR-TR-138-VOL-6 AFOSR-TR-78-1490 NL

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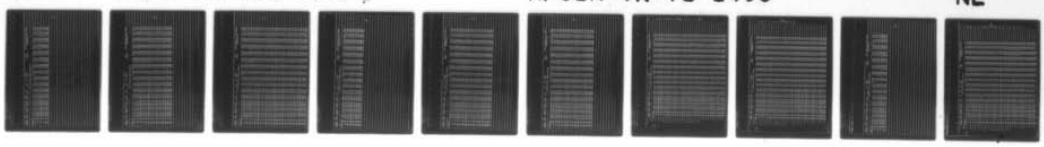

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TEST	PART	REX10-6	ALPHA	WING	Y	Z	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	63	3.012	-0.01	PCT	-4.00	-1.00	4	312	4-13-77	TRANSONIC 16T

INNER FLOWFIELD SURVEY SUMMARY

POINT	GP	X	M	V	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	0	10.002	1.026	1081.16	1466.1	554.1	100.6	1.018	0.99	1.000	0.012	0.993	0.010	0.028	1.60	0.57
3	0	10.002	1.024	1078.46	1471.6	554.6	100.1	1.034	1.01	1.000	-0.017	1.008	0.010	0.023	1.29	0.58
4	0	10.981	1.024	1080.37	1472.5	555.2	101.0	0.976	0.96	1.000	0.079	0.961	-0.003	0.002	0.12	-0.17
5	0	12.005	1.024	1080.20	1471.0	554.6	101.0	0.939	0.93	1.000	0.141	0.930	-0.016	-0.008	-0.47	-0.98
6	0	13.019	1.023	1079.36	1470.3	553.9	101.0	0.930	0.92	1.000	0.155	0.922	-0.014	-0.024	-1.51	-0.86
7	0	13.987	1.024	1079.69	1470.2	554.1	101.1	0.944	0.93	1.000	0.130	0.935	0.007	-0.021	-1.31	0.40
8	0	15.041	1.023	1079.45	1470.1	553.8	101.1	0.992	0.97	1.000	0.051	0.974	0.018	-0.013	-0.78	1.05
9	0	16.035	1.022	1077.76	1469.1	552.9	100.6	1.036	1.01	1.000	-0.023	1.011	0.021	0.002	0.13	1.20
10	0	17.036	1.021	1077.42	1472.2	553.9	100.6	1.156	1.11	0.998	-0.211	1.104	0.028	0.053	2.73	1.47
11	0	17.986	1.025	1080.17	1474.2	556.1	100.2	1.122	1.08	0.993	-0.161	1.076	0.009	0.034	1.82	0.48
12	0	19.009	1.026	1081.63	1474.8	556.9	100.6	1.034	1.01	0.999	-0.014	1.006	0.007	-0.004	-0.20	0.38

TEST	PART	MEXIU-A	ALFHA	WING	Y	Z	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	64	3.006	-0.00	4 PCT	1.99	-0.96	4	307	4-13-77	TRANSONIC 16T

INNER FLOWFIELD SURVEY SUMMARY

POINT	GP	X	M	VEL	PT	Q	TT	RL	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
2	0	19.000	1.021	1077.21	1471.6	553.6	100.5	1.056	1.03	1.000	-0.055	1.028	0.013	0.012	0.67	0.73
3	0	18.641	1.026	1081.41	1473.6	556.2	100.8	1.060	1.03	1.000	-0.055	1.027	0.018	0.015	0.85	1.01
4	0	18.333	1.027	1082.12	1472.7	556.3	100.7	1.051	1.02	0.998	-0.042	1.019	0.024	0.022	1.21	1.35
5	0	18.010	1.027	1082.79	1472.3	556.5	100.7	1.067	1.03	0.996	-0.069	1.031	0.034	0.033	1.84	1.91
6	0	17.650	1.027	1082.98	1471.4	555.9	100.8	1.069	1.05	0.996	-0.104	1.048	0.039	0.043	2.35	2.14
7	0	17.314	1.027	1082.08	1470.5	555.6	100.3	1.096	1.05	0.997	-0.112	1.053	0.035	0.041	2.25	1.93
8	0	16.986	1.027	1082.37	1470.5	555.6	100.6	1.094	1.05	0.998	-0.108	1.052	0.029	0.037	2.03	1.56
9	0	16.645	1.026	1081.82	1469.6	555.0	100.7	1.086	1.05	1.000	-0.096	1.047	0.021	0.029	1.60	1.17
10	0	16.336	1.026	1081.60	1468.6	554.5	100.7	1.075	1.04	1.000	-0.079	1.039	0.016	0.021	1.13	0.88
11	0	16.031	1.026	1081.51	1469.0	554.8	100.6	1.065	1.03	1.000	-0.061	1.031	0.012	0.013	0.70	0.67
12	0	15.657	1.027	1082.25	1469.5	555.1	100.7	1.046	1.02	1.000	-0.029	1.015	0.009	-0.000	-0.00	0.49
13	0	15.356	1.026	1081.47	1469.3	554.8	100.5	1.042	1.01	1.001	-0.024	1.012	0.009	-0.001	-0.08	0.49
14	0	15.042	1.027	1082.72	1471.2	556.1	100.6	1.023	1.00	1.000	0.008	0.996	0.005	-0.012	-0.69	0.31
15	0	14.663	1.025	1080.25	1471.1	554.8	100.6	1.017	0.99	1.000	0.013	0.994	0.003	-0.012	-0.71	0.20
16	0	14.303	1.025	1080.02	1471.6	555.1	100.2	1.012	0.99	1.001	0.021	0.990	0.002	-0.017	-1.00	0.13
17	0	14.012	1.025	1080.08	1472.1	555.3	100.3	1.006	0.98	1.001	0.032	0.985	0.002	-0.021	-1.19	0.09
18	0	13.637	1.025	1080.38	1472.5	555.6	100.1	0.996	0.98	1.000	0.048	0.976	0.001	-0.024	-1.44	0.03
19	0	13.325	1.025	1080.29	1472.9	555.7	100.2	0.983	0.97	1.001	0.070	0.965	-0.001	-0.031	-1.83	-0.03
20	0	13.004	1.026	1081.52	1474.0	556.6	100.4	0.985	0.97	1.001	0.067	0.966	-0.001	-0.032	-1.89	-0.08
21	0	12.636	1.026	1081.18	1474.1	556.5	100.4	0.975	0.96	1.001	0.083	0.958	-0.000	-0.036	-2.13	-0.01
22	0	12.327	1.026	1081.51	1473.4	556.4	100.4	0.965	0.95	1.001	0.101	0.949	0.002	-0.040	-2.34	0.11
23	0	12.007	1.026	1081.62	1473.6	556.4	100.4	0.959	0.95	1.000	0.110	0.944	0.004	-0.042	-2.57	0.21
24	0	11.672	1.026	1081.79	1473.2	556.4	100.6	0.941	0.93	1.000	0.141	0.929	0.006	-0.045	-2.75	0.37
25	0	11.317	1.027	1082.42	1473.1	556.7	100.4	0.940	0.93	1.000	0.143	0.927	0.013	-0.044	-2.71	0.77
26	0	10.975	1.027	1082.31	1472.5	556.4	100.6	0.939	0.93	1.000	0.146	0.926	0.018	-0.038	-2.35	1.09
27	0	10.649	1.027	1082.39	1471.7	556.2	100.3	0.970	0.95	1.000	0.094	0.953	0.021	-0.025	-1.49	1.29
28	0	10.324	1.026	1083.07	1471.5	556.4	100.5	1.003	0.98	1.000	0.041	0.979	0.021	-0.011	-0.62	1.25
29	0	9.994	1.027	1081.83	1470.2	555.5	100.1	1.020	0.99	1.000	0.011	0.994	0.019	-0.003	-0.15	1.07

TEST	PART	REX10-6	ALPHA	WING	YI	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	4R	3.007	-0.01	4 PCT	-0.02	-14.15	5	401	4-13-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	MI	M	VI	PT	Q	TT	RL	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
4	1	24.017	1.027	1071.52	1427.9	539.3	89.9	0.997	0.98	1.000	0.049	0.976	0.004	0.003	0.16	0.26
6	2	23.540	1.025	1069.91	1435.5	541.5	89.8	1.004	0.98	1.000	0.034	0.983	0.005	0.007	0.41	0.30
8	3	23.030	1.025	1070.09	1432.4	540.6	89.4	1.045	1.05	0.999	-0.094	1.047	0.007	0.021	1.14	0.39
10	4	22.534	1.025	1069.71	1428.4	538.9	89.4	1.080	1.04	0.999	-0.089	1.044	0.006	0.020	1.11	0.35
12	5	22.034	1.025	1069.73	1429.4	539.2	89.5	1.073	1.04	1.000	-0.077	1.038	0.006	0.017	0.95	0.33
14	6	21.539	1.025	1070.04	1430.4	539.6	89.8	1.061	1.03	1.000	-0.057	1.029	0.005	0.014	0.79	0.29
16	7	21.043	1.025	1069.96	1431.0	539.9	89.6	1.052	1.02	1.000	-0.043	1.022	0.007	0.011	0.64	0.41
18	8	20.548	1.025	1069.63	1431.7	540.0	89.6	1.038	1.01	1.000	-0.021	1.011	0.005	0.011	0.61	0.29
20	9	20.039	1.025	1069.98	1432.2	540.2	89.9	1.030	1.00	1.000	-0.008	1.004	0.003	0.008	0.44	0.17
22	10	19.543	1.025	1070.34	1432.7	540.6	89.8	1.020	1.00	1.000	0.009	0.996	0.005	0.006	0.33	0.29
24	11	19.036	1.025	1069.69	1432.0	540.2	89.5	1.016	0.99	1.000	0.014	0.993	0.001	0.005	0.27	0.03
26	12	18.532	1.025	1069.78	1431.6	540.1	89.5	1.007	0.99	1.000	0.030	0.985	0.004	0.003	0.18	0.24
28	13	18.044	1.025	1069.92	1431.3	540.1	89.4	1.001	0.98	1.000	0.039	0.980	0.004	0.002	0.13	0.24
30	14	17.543	1.025	1069.81	1430.7	539.8	89.4	0.999	0.98	1.000	0.043	0.978	0.004	0.001	0.06	0.23
32	15	17.033	1.025	1070.13	1429.8	539.6	89.5	0.998	0.98	1.000	0.045	0.978	0.006	0.000	0.00	0.37
34	16	16.530	1.026	1070.62	1430.0	539.9	89.7	0.996	0.98	1.000	0.049	0.976	0.003	-0.000	-0.03	0.20
36	17	16.047	1.026	1071.25	1431.4	540.6	89.8	0.995	0.97	1.001	0.052	0.975	0.004	0.002	0.10	0.22
38	18	15.534	1.026	1071.18	1432.8	541.1	89.7	0.995	0.97	1.001	0.052	0.975	0.004	-0.002	-0.14	0.25
40	19	15.040	1.026	1071.11	1434.2	541.5	89.8	0.992	0.97	1.000	0.056	0.972	0.004	-0.002	-0.13	0.24
42	20	14.533	1.025	1069.71	1433.0	540.5	89.7	0.980	0.96	1.000	0.072	0.964	0.004	-0.004	-0.24	0.25
44	21	14.035	1.025	1069.67	1429.1	539.1	89.4	0.983	0.97	1.000	0.069	0.966	0.004	-0.002	-0.09	0.25
46	22	13.531	1.025	1069.47	1426.2	538.0	89.2	0.978	0.96	1.000	0.077	0.962	0.004	-0.001	-0.04	0.23
48	23	13.031	1.026	1070.21	1426.5	538.4	89.4	1.013	0.99	1.001	0.022	0.990	0.006	0.004	0.23	0.33
50	24	12.531	1.025	1070.35	1426.2	538.3	89.6	1.043	1.01	1.000	-0.028	1.014	0.006	0.010	0.54	0.35
52	25	12.032	1.026	1070.79	1425.7	538.2	89.7	1.045	1.01	1.000	-0.030	1.015	0.006	0.009	0.49	0.32
54	26	11.530	1.026	1070.52	1429.8	539.6	89.7	1.042	1.01	1.001	-0.026	1.013	0.005	0.007	0.42	0.29
56	27	11.040	1.025	1070.27	1433.9	541.0	89.8	1.013	0.99	0.996	0.014	0.991	0.005	0.006	0.36	0.28
58	28	10.534	1.026	1070.74	1435.6	541.8	89.9	1.030	1.00	1.000	-0.007	1.004	0.005	0.004	0.24	0.31
60	29	10.037	1.026	1070.61	1436.3	542.1	89.8	1.024	1.00	1.000	0.002	0.999	0.004	0.007	0.38	0.25
62	30	9.531	1.025	1069.78	1436.6	542.0	89.5	1.012	0.99	1.000	0.022	0.989	0.004	0.001	0.07	0.26
64	31	9.040	1.025	1069.74	1436.7	542.0	89.5	1.009	0.99	1.000	0.027	0.987	0.004	0.000	0.00	0.25
66	32	8.535	1.025	1070.11	1435.7	541.8	89.5	1.019	0.99	1.003	0.015	0.995	0.004	-0.002	-0.10	0.26
68	33	8.037	1.026	1070.33	1432.3	540.6	89.5	1.003	0.98	1.000	0.037	0.982	0.003	-0.002	-0.13	0.20
70	34	7.528	1.025	1070.12	1429.2	539.3	89.6	0.982	0.96	1.000	0.071	0.964	0.004	-0.009	-0.56	0.26
72	35	7.032	1.025	1070.41	1426.9	538.5	89.7	0.980	0.96	1.000	0.074	0.963	0.004	-0.010	-0.58	0.26
74	36	6.535	1.026	1071.00	1426.7	538.6	89.9	0.996	0.98	1.001	0.049	0.976	0.004	-0.004	-0.25	0.25
76	37	6.034	1.025	1070.11	1429.0	539.1	89.8	0.991	0.97	1.001	0.058	0.972	0.005	-0.005	-0.32	0.28
78	38	5.535	1.025	1070.42	1432.1	540.4	89.9	0.985	0.97	1.001	0.066	0.968	0.004	-0.005	-0.29	0.24
80	39	5.037	1.026	1070.88	1435.1	541.7	90.0	0.985	0.97	1.001	0.068	0.967	0.004	-0.005	-0.31	0.25
82	40	4.547	1.026	1070.75	1435.8	541.9	90.0	0.981	0.96	1.001	0.073	0.964	0.004	-0.004	-0.25	0.25
84	41	4.038	1.026	1070.75	1436.0	542.0	89.9	0.977	0.96	1.000	0.080	0.960	0.004	-0.005	-0.29	0.26
86	42	3.536	1.025	1069.95	1435.4	541.5	89.7	0.977	0.96	1.000	0.079	0.961	0.004	-0.005	-0.28	0.23
88	43	3.038	1.026	1070.55	1435.6	541.8	89.7	0.979	0.96	1.000	0.076	0.962	0.004	-0.004	-0.25	0.26
90	44	2.540	1.025	1070.05	1435.2	541.6	89.5	0.974	0.96	1.000	0.084	0.958	0.004	-0.004	-0.25	0.22
92	45	2.038	1.025	1070.40	1435.5	541.7	89.7	0.978	0.96	1.001	0.078	0.961	0.004	-0.003	-0.18	0.24
94	46	1.536	1.026	1070.51	1436.3	542.1	89.7	0.978	0.96	1.000	0.079	0.961	0.004	-0.003	-0.18	0.23
96	47	1.038	1.025	1070.46	1436.4	542.0	89.9	0.976	0.96	1.000	0.082	0.959	0.004	-0.001	-0.07	0.22

TEST	PART	MEA10=A	ALFAM	WING	YI	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	49	3.006	-0.01 & PCT		-0.01	-14.16	5	401	4-13-77	TRANSONIC 1AT

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	VM	PT	U	TT	RL	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
2	48	0.542	1.025	1069.36	1435.0	541.2	89.4	0.974	0.96	1.000	0.043	0.959	0.004	-0.001	-0.04	0.23
4	49	0.036	1.024	1069.42	1435.5	541.3	89.6	0.977	0.96	1.001	0.039	0.961	0.004	0.000	0.03	0.24
6	50	-0.459	1.025	1070.50	1435.7	541.4	89.8	0.979	0.96	1.000	0.034	0.962	0.005	0.002	0.11	0.27
8	51	-0.961	1.025	1069.98	1435.6	541.6	89.6	0.984	0.97	1.000	0.033	0.967	0.004	0.003	0.19	0.22
10	52	-1.456	1.025	1070.20	1435.7	541.7	89.8	0.984	0.97	1.001	0.034	0.966	0.004	0.003	0.18	0.22
12	53	-1.960	1.025	1070.40	1435.5	541.6	89.9	0.992	0.97	1.001	0.055	0.973	0.004	0.004	0.25	0.26
14	54	-2.453	1.025	1070.19	1435.1	541.4	89.8	0.998	0.98	1.001	0.046	0.978	0.004	0.006	0.33	0.25
16	55	-2.960	1.025	1070.49	1435.3	541.7	89.8	1.001	0.99	1.000	0.040	0.980	0.004	0.003	0.16	0.24
18	56	-3.466	1.025	1070.09	1434.9	541.3	89.9	0.990	0.97	1.000	0.057	0.972	0.004	0.004	0.23	0.23
20	57	-3.962	1.025	1070.05	1435.2	541.6	89.5	1.001	0.98	1.001	0.041	0.980	0.004	0.005	0.30	0.26
22	58	-4.464	1.025	1069.35	1434.4	541.0	89.3	0.994	0.98	1.001	0.050	0.975	0.004	0.005	0.27	0.25
24	59	-4.969	1.025	1069.69	1434.9	541.3	89.6	0.995	0.98	1.000	0.049	0.976	0.004	0.005	0.27	0.26
26	60	-5.470	1.025	1070.44	1435.2	541.6	89.7	0.997	0.98	1.000	0.045	0.977	0.005	0.006	0.33	0.28
28	61	-5.769	1.025	1069.99	1434.9	541.4	89.6	0.998	0.98	1.000	0.044	0.978	0.004	0.005	0.27	0.26

TEST	PART	REX10-6	ALPHA	WING	YI	ZI	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	50	3.002	-0.01 + PCT		14.16	0.03	5	403	4-13-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	AI	M	V+	PT	N	TT	ML	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
4	1	24.046	1.025	1070.22	1434.0	541.1	89.6	0.999	0.98	1.000	0.043	0.978	0.010	0.005	0.28	0.59
6	2	23.546	1.024	1069.09	1433.9	540.6	89.4	0.996	0.98	1.000	0.046	0.977	0.010	0.004	0.21	0.61
8	3	23.042	1.025	1069.41	1435.4	541.6	89.4	1.003	0.98	1.000	0.036	0.982	0.010	0.004	0.23	0.59
10	4	22.546	1.026	1070.30	1435.5	541.8	89.4	1.008	0.99	1.000	0.029	0.985	0.009	0.004	0.21	0.54
12	5	22.046	1.026	1070.50	1435.7	541.9	89.7	1.013	0.99	1.001	0.021	0.990	0.009	0.005	0.26	0.51
14	6	21.542	1.026	1070.57	1436.0	542.2	89.8	1.011	0.99	0.999	0.023	0.988	0.006	0.005	0.30	0.37
16	7	21.041	1.025	1070.72	1436.9	542.3	90.0	1.052	1.02	1.000	-0.044	1.021	0.000	0.014	0.78	0.01
18	8	20.541	1.026	1070.62	1436.9	542.3	89.8	1.070	1.04	0.999	-0.072	1.036	-0.004	0.018	0.97	-0.22
20	9	20.044	1.025	1070.33	1437.1	542.3	89.9	1.068	1.03	1.002	-0.065	1.034	-0.001	0.017	0.93	-0.07
22	10	19.529	1.026	1070.78	1437.4	542.5	90.0	1.056	1.02	1.000	-0.048	1.024	0.003	0.011	0.59	0.15
24	11	19.032	1.026	1070.58	1437.0	542.3	89.8	1.043	1.01	1.000	-0.027	1.014	0.006	0.008	0.46	0.32
26	12	18.544	1.025	1070.08	1436.6	542.1	89.5	1.033	1.01	1.000	-0.013	1.007	0.010	0.006	0.33	0.56
28	13	18.037	1.025	1070.32	1436.7	542.2	89.7	1.024	1.00	1.000	0.002	0.999	0.011	0.004	0.23	0.63
30	14	17.540	1.026	1070.82	1437.1	542.5	89.9	1.016	0.99	1.000	0.016	0.992	0.014	0.002	0.11	0.80
32	15	17.037	1.026	1070.80	1436.1	542.1	89.9	1.009	0.99	1.001	0.029	0.986	0.016	0.001	0.05	0.96
34	16	16.538	1.026	1070.93	1435.0	541.7	89.9	0.998	0.98	1.001	0.046	0.977	0.018	0.002	0.09	1.05
36	17	16.035	1.026	1071.41	1434.4	541.7	90.0	0.994	0.97	1.000	0.054	0.973	0.018	0.001	0.03	1.03
38	18	15.536	1.027	1071.74	1433.9	541.6	90.0	0.994	0.97	1.001	0.053	0.974	0.018	0.000	0.02	1.04
40	19	15.042	1.027	1071.56	1432.4	541.0	89.9	1.008	0.98	1.004	0.035	0.985	0.019	0.000	0.01	1.04
42	20	14.538	1.027	1071.26	1432.0	540.9	89.8	0.990	0.97	1.001	0.060	0.970	0.018	0.001	0.08	1.05
44	21	14.043	1.025	1070.44	1430.8	539.9	89.9	0.987	0.97	1.000	0.063	0.969	0.017	0.002	0.09	1.03
46	22	13.535	1.025	1070.07	1429.5	539.3	89.8	0.983	0.97	1.000	0.069	0.965	0.017	0.002	0.13	0.99
48	23	13.056	1.025	1070.32	1429.4	539.3	90.0	0.995	0.98	1.000	0.049	0.976	0.011	0.004	0.22	0.66
50	24	12.529	1.025	1070.36	1429.1	539.1	90.1	1.018	0.99	1.000	0.012	0.994	0.010	0.009	0.54	0.57
52	25	12.034	1.026	1070.92	1432.3	540.6	90.1	1.035	1.01	1.001	-0.014	1.008	0.008	0.010	0.58	0.43
54	26	11.531	1.025	1070.04	1430.4	539.6	89.8	1.022	1.00	1.000	0.005	0.997	0.009	0.008	0.48	0.53
56	27	11.020	1.025	1070.25	1426.2	538.2	89.7	1.011	0.99	1.000	0.022	0.989	0.011	0.010	0.58	0.61
58	28	10.538	1.025	1070.18	1427.6	538.6	89.8	1.018	0.99	1.000	0.012	0.994	0.011	0.007	0.43	0.64
60	29	10.037	1.025	1069.87	1431.4	540.0	89.6	1.018	0.99	1.000	0.012	0.994	0.013	0.006	0.36	0.77
62	30	9.525	1.025	1070.35	1433.3	540.8	89.8	1.012	0.99	1.000	0.022	0.989	0.015	0.004	0.22	0.87

TEST	PART	REX10-6	ALPHA	WING	YI	ZI	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-445	51	2.995	-0.01	4 PCT	14.16	0.02	5	403	4-13-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	VM	PI	Q	TT	ML	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	31	9.028	1.025	1069.91	1431.1	539.8	89.8	1.006	0.98	1.000	0.032	0.984	0.016	0.005	0.29	0.93
3	32	8.542	1.025	1069.95	1430.6	539.7	89.7	1.000	0.98	1.000	0.041	0.979	0.017	0.004	0.23	0.99
5	33	8.038	1.025	1070.17	1431.4	540.1	89.6	0.995	0.97	0.998	0.063	0.967	0.018	0.003	0.20	1.04
7	34	7.541	1.025	1070.62	1432.3	540.5	89.9	1.019	0.99	1.003	0.014	0.995	0.019	-0.000	-0.00	1.07
9	35	7.041	1.025	1070.74	1433.1	540.8	90.1	0.997	0.98	1.000	0.046	0.977	0.019	0.002	0.10	1.13
11	36	6.534	1.025	1070.69	1433.2	540.9	90.0	0.997	0.98	1.001	0.047	0.977	0.020	0.000	0.00	1.19
13	37	6.044	1.026	1070.94	1433.5	541.1	90.1	0.997	0.98	1.000	0.048	0.976	0.021	0.001	0.03	1.22
15	38	5.531	1.025	1070.86	1434.1	541.2	90.2	0.996	0.98	1.001	0.049	0.976	0.020	-0.000	-0.01	1.20
17	39	5.041	1.025	1070.86	1433.3	540.8	90.1	0.988	0.97	1.001	0.061	0.970	0.023	-0.000	-0.01	1.36
19	40	4.540	1.025	1070.48	1432.6	540.5	90.0	0.995	0.98	1.000	0.049	0.976	0.017	0.000	0.00	0.99
21	41	4.038	1.026	1070.73	1432.5	540.7	89.9	0.986	0.97	1.000	0.065	0.968	0.020	-0.001	-0.03	1.21
23	42	3.554	1.025	1070.32	1431.9	540.3	89.8	0.981	0.96	1.000	0.071	0.964	0.020	0.000	0.00	1.19
25	43	3.056	1.025	1070.20	1430.9	540.0	89.6	0.983	0.97	1.000	0.069	0.965	0.019	0.001	0.05	1.15
27	44	2.525	1.025	1070.40	1431.1	540.1	89.7	0.987	0.97	1.001	0.064	0.968	0.019	0.000	0.01	1.13
29	45	2.039	1.025	1070.29	1430.7	539.8	89.9	0.982	0.96	1.000	0.071	0.965	0.018	0.000	0.01	1.09
31	46	1.537	1.026	1071.18	1430.9	540.2	90.1	0.988	0.97	1.001	0.063	0.969	0.017	0.000	0.02	1.02
33	47	1.036	1.026	1070.79	1431.1	540.1	90.0	0.989	0.97	1.001	0.060	0.971	0.017	0.000	0.01	0.98
35	48	0.537	1.025	1070.46	1431.4	540.0	90.1	0.987	0.97	1.001	0.063	0.969	0.015	-0.000	-0.01	0.92
37	49	0.036	1.025	1070.71	1431.7	540.3	90.1	0.989	0.97	1.000	0.060	0.970	0.015	-0.000	-0.02	0.89
39	50	-0.460	1.025	1070.82	1432.5	540.6	90.1	0.991	0.97	1.000	0.057	0.971	0.014	-0.000	-0.01	0.85
41	51	-0.961	1.025	1069.98	1432.2	540.2	89.8	0.989	0.97	1.000	0.059	0.971	0.014	-0.000	-0.01	0.80
43	52	-1.469	1.025	1069.79	1432.2	540.2	89.8	0.996	0.98	1.001	0.047	0.977	0.014	0.000	0.01	0.80
45	53	-1.965	1.025	1070.24	1432.7	540.6	89.8	0.999	0.98	1.000	0.043	0.979	0.012	0.001	0.07	0.69
47	54	-2.471	1.025	1069.99	1432.2	540.3	89.6	1.010	0.99	1.003	0.028	0.988	0.012	0.002	0.12	0.67
49	55	-2.968	1.025	1069.78	1431.8	540.0	89.8	1.000	0.98	1.001	0.041	0.980	0.011	0.002	0.10	0.67
51	56	-3.473	1.025	1070.02	1431.9	540.1	89.9	1.001	0.98	1.000	0.039	0.981	0.011	0.002	0.10	0.66
53	57	-3.979	1.025	1069.92	1431.5	539.9	90.0	1.001	0.98	1.001	0.039	0.981	0.011	0.002	0.09	0.63
55	58	-4.469	1.025	1070.25	1431.0	539.8	90.1	1.001	0.98	1.000	0.039	0.980	0.013	0.002	0.12	0.77
57	59	-4.976	1.024	1069.90	1430.9	539.6	90.1	0.998	0.98	1.000	0.044	0.978	0.011	0.001	0.05	0.66
59	60	-4.976	1.025	1070.51	1431.7	540.1	90.2	1.004	0.98	1.001	0.035	0.983	0.011	0.002	0.11	0.66

TEST	PART	RE*10-6	ALPHA	WING	YT	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-465	80	2.995	5.07 + PCT	-0.00	-13.19	5	401		4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	AI	M	VM	PT	Q	TT	ML	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	25	-5.476	1.023	1069.42	1420.6	535.3	90.5	1.007	0.99	1.000	0.027	0.987	0.006	0.005	0.29	0.35
2	25	-5.002	1.027	1071.93	1426.4	538.8	90.3	1.021	1.00	1.002	0.012	0.995	0.007	0.005	0.29	0.38
3	25	-4.581	1.027	1072.66	1433.2	541.6	90.5	1.025	1.00	1.002	0.006	0.999	0.006	0.005	0.28	0.36
4	25	-3.951	1.026	1069.73	1430.3	541.5	90.2	1.004	0.98	1.001	0.034	0.984	0.005	0.006	0.32	0.31
5	25	-3.566	1.026	1069.83	1438.8	542.3	90.5	1.000	0.98	1.001	0.040	0.980	0.005	0.004	0.24	0.31
6	25	-3.093	1.023	1069.05	1439.4	542.1	90.6	0.995	0.98	1.001	0.046	0.977	0.006	0.005	0.29	0.34
7	25	-2.563	1.026	1069.39	1438.9	542.3	90.1	0.998	0.98	1.001	0.043	0.979	0.006	0.009	0.55	0.35
8	25	-1.997	1.025	1070.44	1439.9	543.0	90.6	0.990	0.97	1.000	0.051	0.972	0.006	0.008	0.49	0.34
9	25	-1.536	1.026	1069.65	1439.8	542.7	90.3	0.999	0.98	1.000	0.041	0.980	0.008	0.004	0.24	0.47
10	25	-0.979	1.028	1072.94	1440.1	544.6	90.4	1.007	0.98	1.001	0.034	0.983	0.005	0.003	0.18	0.31
11	25	-0.540	1.026	1070.19	1439.4	542.9	90.6	0.995	0.97	1.001	0.045	0.968	0.006	0.003	0.16	0.36
12	25	-0.047	1.025	1070.36	1439.5	542.9	90.6	0.989	0.97	1.001	0.059	0.971	0.005	0.001	0.08	0.32
13	25	0.521	1.025	1070.72	1439.6	543.0	90.6	0.978	0.96	1.001	0.077	0.962	0.002	0.001	0.04	0.11
14	25	0.989	1.026	1071.47	1440.1	543.5	90.7	0.986	0.97	1.001	0.048	0.966	0.005	0.000	0.02	0.30
15	25	1.411	1.025	1070.97	1439.5	543.2	90.4	0.985	0.97	1.001	0.067	0.947	0.007	-0.001	-0.06	0.40
16	25	1.955	1.026	1071.47	1440.1	543.6	90.5	0.987	0.97	1.001	0.064	0.968	0.006	-0.002	-0.12	0.33
17	25	2.445	1.026	1071.72	1440.6	543.8	90.6	0.987	0.97	1.001	0.064	0.969	0.005	-0.004	-0.23	0.32
18	25	2.929	1.026	1071.41	1439.6	543.6	90.6	0.993	0.97	1.001	0.071	0.965	0.005	-0.004	-0.23	0.30
19	25	3.467	1.026	1071.62	1440.6	543.9	90.6	0.990	0.96	1.001	0.076	0.963	0.005	-0.007	-0.39	0.33
20	25	3.977	1.026	1070.80	1439.9	542.9	90.4	0.994	0.98	0.999	0.047	0.976	0.006	-0.017	-1.01	0.35
21	25	4.514	1.026	1069.79	1439.5	542.6	90.5	0.985	0.97	1.000	0.064	0.964	0.006	-0.009	-0.50	0.37
22	25	4.951	1.023	1069.08	1439.1	542.2	90.2	0.986	0.97	1.001	0.062	0.970	0.005	-0.005	-0.32	0.28
23	25	5.546	1.026	1069.79	1439.5	542.6	90.5	0.990	0.97	1.001	0.056	0.973	0.007	-0.005	-0.28	0.41
24	25	5.976	1.026	1069.39	1439.1	542.4	90.2	0.990	0.97	1.000	0.055	0.973	0.006	-0.006	-0.33	0.37
25	25	6.476	1.025	1070.68	1439.9	543.1	90.6	0.991	0.97	1.001	0.055	0.973	0.006	-0.005	-0.30	0.36
26	25	6.993	1.026	1070.13	1439.6	542.8	90.3	0.992	0.97	1.001	0.056	0.973	0.006	-0.004	-0.24	0.36
27	25	7.510	1.025	1070.78	1439.7	543.1	90.6	0.994	0.97	1.000	0.051	0.975	0.006	-0.004	-0.24	0.37
28	25	7.996	1.025	1070.73	1439.6	543.1	90.4	0.996	0.98	1.001	0.047	0.977	0.006	-0.004	-0.24	0.35
29	25	8.476	1.026	1070.03	1439.2	542.5	90.6	1.001	0.98	1.001	0.038	0.981	0.006	-0.003	-0.18	0.32
30	25	9.008	1.026	1069.48	1438.9	542.1	90.3	1.004	0.98	1.000	0.033	0.984	0.007	-0.002	-0.14	0.40
32	25	9.520	1.025	1070.42	1439.2	542.8	90.4	1.006	0.99	1.000	0.030	0.985	0.006	-0.001	-0.06	0.35
33	25	9.935	1.025	1070.68	1439.5	542.9	90.6	1.017	0.99	1.001	0.014	0.994	0.006	-0.000	-0.01	0.34
34	25	10.403	1.026	1069.62	1438.2	542.1	90.2	1.015	0.99	1.000	0.014	0.993	0.006	0.002	0.11	0.36
35	25	10.976	1.025	1070.97	1439.3	543.1	90.5	1.027	1.00	1.001	-0.002	1.001	0.007	0.002	0.13	0.39
36	25	11.491	1.025	1070.86	1439.1	543.0	90.4	1.031	1.00	1.000	-0.006	1.004	0.009	0.003	0.18	0.50
37	25	12.055	1.025	1071.06	1439.3	543.1	90.5	1.008	0.99	1.000	0.029	0.986	0.006	0.001	0.05	0.35
38	25	12.453	1.025	1070.92	1439.6	543.1	90.4	0.998	0.97	1.000	0.041	0.970	0.005	-0.003	-0.18	0.30
41	25	13.051	1.026	1071.56	1439.1	543.6	90.5	0.980	0.96	1.001	0.075	0.963	0.006	-0.006	-0.33	0.37
42	25	13.593	1.026	1069.60	1439.3	542.5	90.4	0.975	0.96	1.000	0.090	0.960	0.006	-0.007	-0.43	0.35
43	25	13.962	1.026	1070.22	1438.8	542.8	90.5	0.981	0.96	1.001	0.072	0.965	0.006	-0.008	-0.47	0.38
45	25	14.566	1.025	1070.87	1439.3	543.2	90.2	0.979	0.96	1.000	0.077	0.962	0.006	-0.009	-0.54	0.34
46	25	15.020	1.025	1070.32	1439.0	542.7	90.4	0.980	0.96	1.001	0.074	0.963	0.006	-0.010	-0.58	0.37
47	25	15.510	1.025	1071.08	1439.9	543.3	90.6	0.986	0.97	1.000	0.068	0.966	0.007	-0.011	-0.66	0.40
48	25	16.041	1.026	1069.73	1438.8	542.6	90.3	0.980	0.96	1.001	0.072	0.964	0.007	-0.011	-0.64	0.39
49	25	16.479	1.026	1069.63	1438.8	542.6	90.4	0.981	0.97	1.001	0.071	0.965	0.007	-0.011	-0.64	0.41
50	25	17.041	1.025	1070.51	1439.0	542.7	90.6	0.986	0.97	1.001	0.064	0.968	0.006	-0.011	-0.65	0.36
51	25	17.448	1.025	1071.41	1439.5	543.3	90.7	0.985	0.97	1.001	0.067	0.967	0.010	-0.011	-0.66	0.61
53	25	17.947	1.025	1070.57	1438.9	542.7	90.6	0.986	0.98	1.000	0.067	0.977	0.006	-0.008	-0.46	0.38
54	25	18.453	1.025	1070.82	1439.2	542.9	90.6	0.997	0.98	1.000	0.067	0.977	0.007	-0.010	-0.61	0.42
55	25	19.056	1.024	1070.12	1438.4	542.3	90.5	1.000	0.98	1.001	0.060	0.980	0.007	-0.010	-0.57	0.41
56	25	19.474	1.025	1070.66	1438.1	542.5	90.5	1.006	0.98	1.000	0.052	0.984	0.007	-0.009	-0.50	0.41
57	25	20.031	1.024	1070.09	1437.8	542.1	90.3	1.011	0.99	1.000	0.022	0.989	0.006	-0.007	-0.40	0.38
58	25	20.447	1.024	1069.69	1437.6	541.8	90.4	1.018	1.00	1.001	0.010	0.995	0.009	-0.005	-0.30	0.49
59	25	20.947	1.024	1070.21	1438.9	542.8	90.5	1.031	1.01	1.000	-0.011	1.006	0.007	-0.004	-0.23	0.40
60	25	21.454	1.024	1069.71	1438.9	542.3	90.3	1.040	1.01	1.000	-0.025	1.013	0.007	-0.003	-0.16	0.37
61	25	21.940	1.024	1069.80	1438.1	542.4	90.5	1.056	1.03	1.000	-0.051	1.025	0.007	-0.004	-0.25	0.40
62	25	22.500	1.023	1069.09	1438.1	542.3	90.2	1.060	1.03	1.000	-0.058	1.029	0.007	0.004	0.23	0.38
63	25	23.009	1.026	1071.54	1438.9	543.3	90.6	1.069	1.03	1.000	-0.068	1.034	0.007	0.005	0.27	0.40
64	25	23.495	1.024	1070.10	1438.0	542.3	90.4	1.032	1.01	1.000	-0.017	1.006	0.009	0.000	0.01	0.52
65	25	23.976	1.024	1070.34	1438.3	542.5	90.6	1.023	1.00	1.000	0.003	0.994	0.007	-0.004	-0.22	0.38

TEST	PART	REYNOLDS	ALFNM	MACH	PT	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-465	82	3.01M	5.07 &	PCT	16.16	0.0	5	403	4-14-77	TRANSONIC IAT

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	AI		V	PT	Q	TT	ML	VTL/VM	PTL/PT	CPL	UI/VM	VI/VM	WI/VM	AATL	SWTL
1	25	24.015	1.026	1069.59	1441.6	543.5	90.4	1.011	0.99	1.001	0.023	0.989	0.011	0.024	1.40	0.65
2	25	23.648	1.025	1071.09	1443.0	544.4	90.8	1.022	1.00	1.001	0.005	0.997	0.015	0.025	1.41	0.87
3	25	22.913	1.026	1071.54	1443.1	544.7	90.7	1.025	1.00	1.001	0.001	0.999	0.014	0.025	1.42	0.78
4	25	22.501	1.026	1071.43	1443.5	545.1	90.5	1.000	0.98	0.995	0.035	0.978	0.013	0.022	1.31	0.78
5	25	22.006	1.027	1072.02	1442.7	544.9	90.4	1.017	0.99	0.998	0.013	0.992	0.011	0.024	1.39	0.63
6	25	21.519	1.026	1073.24	1443.0	545.5	90.7	1.041	1.05	0.999	-0.101	1.049	0.005	0.025	1.38	0.25
7	25	21.065	1.025	1070.92	1439.6	543.2	90.4	1.118	1.07	0.999	-0.148	1.073	-0.008	0.026	1.40	-0.42
8	25	20.695	1.026	1071.53	1438.1	542.8	90.7	1.116	1.07	0.999	-0.144	1.071	-0.004	0.026	1.40	-0.20
9	25	19.978	1.025	1071.04	1439.8	543.8	90.5	1.096	1.06	0.999	-0.113	1.056	0.002	0.023	1.24	0.09
10	25	19.624	1.025	1070.68	1439.9	543.3	90.5	1.065	1.05	1.000	-0.095	1.047	0.006	0.021	1.13	0.32
11	25	18.983	1.025	1070.52	1439.6	543.1	90.5	1.065	1.03	1.000	-0.063	1.032	0.012	0.019	1.07	0.68
12	25	18.636	1.026	1071.01	1439.9	543.9	90.7	1.051	1.02	1.001	-0.039	1.020	0.015	0.018	1.01	0.87
13	25	17.956	1.025	1070.67	1436.7	541.3	90.3	1.020	1.00	1.000	0.009	0.996	0.017	0.016	0.90	0.97
14	25	17.545	1.026	1070.95	1439.0	543.5	90.7	1.013	0.99	1.000	0.018	0.991	0.024	0.015	0.86	1.39
15	25	17.029	1.023	1069.59	1437.0	543.5	90.6	1.004	0.98	1.001	0.032	0.984	0.026	0.013	0.79	1.52
16	25	16.512	1.025	1070.85	1439.4	542.4	90.7	1.001	0.98	1.001	0.040	0.980	0.027	0.013	0.75	1.59
17	25	16.066	1.025	1071.28	1440.1	543.6	90.7	1.005	0.98	1.004	0.038	0.983	0.027	0.013	0.78	1.59
18	25	15.528	1.025	1070.96	1441.2	543.8	90.6	0.990	0.97	1.001	0.059	0.971	0.026	0.011	0.64	1.55
19	25	15.025	1.026	1072.27	1443.2	545.0	90.8	0.989	0.97	1.001	0.062	0.969	0.025	0.010	0.57	1.50
20	25	14.535	1.026	1071.44	1443.5	544.9	90.6	0.987	0.97	1.001	0.065	0.968	0.025	0.009	0.54	1.48
21	25	14.065	1.027	1072.42	1445.0	546.1	90.7	0.989	0.97	1.001	0.063	0.969	0.025	0.009	0.53	1.47
22	25	13.511	1.025	1070.96	1445.6	545.2	90.5	0.989	0.97	1.000	0.059	0.970	0.019	0.009	0.51	1.13
23	25	12.965	1.025	1071.36	1444.3	545.1	90.7	0.972	0.96	1.000	0.088	0.956	0.026	0.008	0.49	1.53
24	25	12.487	1.026	1070.29	1442.2	543.7	90.7	0.976	0.96	0.999	0.078	0.960	0.020	0.007	0.45	1.16
26	25	11.471	1.025	1070.77	1437.1	542.9	90.4	1.029	1.00	1.000	-0.006	1.003	0.014	0.006	0.32	0.82
27	25	11.121	1.025	1071.37	1437.6	542.5	90.7	1.025	1.00	1.000	0.001	0.999	0.017	0.006	0.32	0.97
28	25	10.855	1.026	1071.60	1438.4	542.3	90.8	1.012	0.99	0.999	0.019	0.989	0.015	0.006	0.33	0.88
29	25	9.991	1.025	1071.13	1438.4	541.7	90.4	1.018	0.99	1.000	0.012	0.994	0.018	0.005	0.31	1.02
30	25	9.552	1.026	1071.45	1439.1	541.4	90.7	1.018	0.99	1.001	0.014	0.993	0.018	0.005	0.31	1.02
31	25	9.038	1.026	1071.59	1438.3	541.4	90.7	1.007	0.99	1.000	0.030	0.985	0.020	0.005	0.29	1.14
32	25	8.671	1.025	1070.98	1433.4	540.8	90.7	1.018	0.99	1.001	0.012	0.994	0.028	0.005	0.31	1.62
33	25	8.023	1.025	1070.42	1432.5	540.4	90.6	1.003	0.98	1.001	0.036	0.982	0.022	0.006	0.33	1.26
34	25	7.476	1.025	1071.47	1432.8	540.7	90.8	0.996	0.98	1.000	0.048	0.976	0.022	0.005	0.31	1.27
35	25	7.016	1.025	1070.32	1432.1	540.1	90.4	0.994	0.98	1.001	0.051	0.975	0.022	0.005	0.30	1.30
36	25	6.675	1.025	1070.93	1433.1	540.6	90.7	0.994	0.97	1.001	0.052	0.975	0.023	0.004	0.25	1.34
37	25	6.032	1.025	1070.64	1433.4	540.6	90.7	0.994	0.97	1.001	0.051	0.975	0.023	0.004	0.26	1.38
38	25	5.526	1.024	1070.15	1433.1	540.4	90.6	0.992	0.97	1.001	0.054	0.973	0.024	0.005	0.28	1.39
39	25	4.982	1.025	1070.71	1434.2	540.9	90.8	0.988	0.97	1.001	0.061	0.970	0.023	0.005	0.30	1.38
40	25	4.422	1.024	1070.28	1434.9	540.9	90.8	0.976	0.96	0.998	0.080	0.958	0.023	0.004	0.25	1.40
41	25	4.015	1.023	1069.32	1434.0	540.2	90.7	0.983	0.97	1.001	0.066	0.967	0.023	0.004	0.23	1.38
42	25	3.527	1.024	1069.83	1434.6	540.8	90.5	0.987	0.97	1.001	0.061	0.970	0.023	0.004	0.22	1.34
43	25	2.970	1.023	1069.56	1435.0	540.6	90.8	0.986	0.97	1.001	0.062	0.969	0.022	0.005	0.30	1.32
44	25	2.415	1.025	1071.02	1436.8	541.3	90.7	0.985	0.97	1.001	0.067	0.967	0.021	0.004	0.26	1.27
45	25	1.928	1.025	1070.92	1435.2	541.4	90.7	0.980	0.96	1.000	0.075	0.963	0.020	0.005	0.30	1.16
46	25	1.475	1.025	1071.23	1435.8	541.8	90.7	0.987	0.97	1.001	0.063	0.969	0.020	0.005	0.30	1.16
47	25	0.954	1.025	1070.79	1435.5	541.6	90.4	0.989	0.97	1.001	0.060	0.970	0.017	0.005	0.28	1.00
48	25	0.520	1.024	1070.76	1435.4	541.5	90.5	0.990	0.97	1.001	0.058	0.971	0.017	0.005	0.30	0.98
49	25	-0.032	1.024	1069.75	1435.4	541.1	90.4	0.987	0.97	1.000	0.062	0.969	0.017	0.005	0.28	1.03
50	25	-0.523	1.023	1069.63	1436.5	541.3	90.7	0.987	0.97	1.000	0.061	0.970	0.016	0.006	0.36	0.96
51	25	-0.971	1.023	1069.87	1438.3	542.0	90.7	0.995	0.98	1.000	0.046	0.977	0.016	0.005	0.31	0.92
52	25	-1.457	1.024	1070.09	1439.9	542.8	90.7	1.003	0.98	1.001	0.036	0.983	0.015	0.005	0.30	0.85
53	25	-1.995	1.024	1070.31	1440.7	543.2	90.7	1.004	0.98	1.001	0.034	0.984	0.014	0.005	0.31	0.79
54	25	-2.440	1.024	1070.56	1441.2	543.5	90.7	1.003	0.98	1.001	0.036	0.982	0.014	0.005	0.31	0.81
55	25	-2.980	1.024	1070.23	1441.3	543.3	90.8	0.995	0.98	1.001	0.049	0.976	0.009	0.006	0.33	0.51
56	25	-3.402	1.024	1070.08	1441.6	543.3	90.7	1.000	0.98	1.000	0.040	0.980	0.014	0.005	0.31	0.83
57	25	-3.840	1.024	1069.65	1441.9	543.4	90.6	1.002	0.98	1.001	0.036	0.983	0.014	0.005	0.32	0.83
58	25	-4.276	1.024	1070.05	1442.7	543.8	90.8	1.007	0.99	1.001	0.028	0.986	0.018	0.005	0.30	1.03
59	25	-4.860	1.024	1070.00	1442.2	543.4	90.3	0.999	0.98	1.001	0.042	0.979	0.014	0.005	0.32	0.80
60	25	-5.[illegible]	1.025	1071.46	1444.3	545.1	90.8	1.006	0.98	1.001	0.033	0.984	0.013	0.005	0.29	0.78

TEST	PART	REXIO-6 ALFHM	WING	YI	ZI	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
IF-445	81	3.011 5.07 4 PCT		14.16	1.00	5	403	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	XI	M	VM	PT	Q	TT	ML	VTL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
1	25	24.036	1.025	1070.88	1442.2	544.2	90.4	1.015	0.99	1.001	0.017	0.992	0.011	0.025	1.42	0.64
2	25	23.499	1.026	1072.14	1441.7	544.5	90.7	1.021	1.00	1.001	0.009	0.996	0.011	0.024	1.39	0.62
3	25	22.967	1.027	1072.49	1439.2	543.8	90.4	1.021	1.00	1.000	0.009	0.995	0.010	0.024	1.38	0.57
4	25	22.531	1.026	1071.80	1436.9	542.4	90.6	1.025	1.00	1.000	0.002	0.999	0.014	0.024	1.38	0.81
5	25	22.036	1.025	1070.96	1434.5	541.3	90.5	1.020	1.00	0.999	0.007	0.996	0.009	0.023	1.32	0.52
6	25	21.426	1.025	1070.98	1433.2	540.8	90.4	1.091	1.05	0.998	-0.106	1.052	-0.000	0.023	1.28	-0.00
7	25	21.013	1.025	1070.78	1435.5	541.5	90.7	1.128	1.08	0.999	-0.162	1.080	-0.006	0.023	1.24	-0.33
8	25	20.503	1.024	1070.02	1436.3	541.6	90.2	1.124	1.08	0.999	-0.156	1.078	-0.008	0.023	1.22	-0.43
9	25	20.030	1.026	1071.73	1438.5	543.0	90.7	1.113	1.07	1.000	-0.137	1.069	-0.004	0.021	1.13	-0.21
10	25	19.482	1.026	1071.75	1439.3	543.5	90.4	1.095	1.05	1.000	-0.108	1.054	0.002	0.019	1.02	0.11

TEST	PAMT	REA10-6	ALFHM	PINF	YI	ZT	RUN	SURVEY	DATE	AEDC PROPULSION WIND TUNNEL
TF-465	80	3.005	-5.11	PCT	-0.01	-14.14	5	531	4-14-77	TRANSONIC 16T

OUTER FLOWFIELD SURVEY SUMMARY

POINT	GP	AI°	M	VI	PI	Q	TT	PL	PTL/PM	PTL/PT	CPL	UI/VM	VT/VM	WT/VM	AATL	SWTL
1	1	23.947	1.023	1068.36	1432.3	539.6	89.7	1.144	1.09	0.998	-0.191	1.093	0.008	0.051	2.69	0.41
2	1	23.476	1.024	1069.02	1433.4	540.5	90.2	1.140	1.09	0.999	-0.142	1.090	0.007	0.048	2.51	0.35
3	1	22.990	1.024	1069.08	1433.5	540.2	90.0	1.129	1.08	0.999	-0.147	1.082	0.006	0.042	2.25	0.34
4	1	22.508	1.024	1069.03	1433.4	540.1	89.9	1.120	1.08	0.998	-0.153	1.075	0.006	0.041	2.20	0.33
5	1	22.008	1.024	1069.17	1433.5	540.2	90.1	1.113	1.07	0.999	-0.142	1.070	0.006	0.038	2.02	0.33
6	1	21.478	1.024	1069.07	1433.4	540.4	90.3	1.106	1.07	1.000	-0.131	1.065	0.006	0.034	1.83	0.32
7	1	21.015	1.024	1069.59	1434.1	540.7	90.0	1.096	1.06	1.000	-0.114	1.056	0.007	0.031	1.68	0.36
8	1	20.524	1.024	1069.30	1434.5	540.6	90.2	1.086	1.05	1.000	-0.099	1.049	0.006	0.028	1.51	0.31
9	1	19.991	1.023	1068.70	1436.1	540.6	89.7	1.076	1.04	1.000	-0.084	1.042	0.005	0.025	1.36	0.30
10	1	19.495	1.024	1069.58	1434.3	540.7	90.2	1.065	1.03	1.000	-0.069	1.035	0.004	0.022	1.19	0.23
11	1	18.976	1.025	1070.56	1435.2	541.0	90.0	1.067	1.03	1.000	-0.046	1.033	0.006	0.016	0.76	0.34
12	1	18.539	1.026	1070.92	1434.4	541.5	89.8	1.048	1.02	1.000	-0.036	1.018	0.006	0.017	0.97	0.33
13	1	18.026	1.026	1071.41	1434.8	541.7	90.1	1.045	1.02	1.000	-0.030	1.015	0.006	0.015	0.87	0.33
14	1	17.496	1.026	1071.30	1433.6	541.4	90.1	1.034	1.01	1.000	-0.012	1.006	0.006	0.012	0.67	0.36
15	1	16.996	1.026	1070.89	1433.2	541.1	89.8	1.030	1.00	1.001	-0.005	1.003	0.005	0.012	0.67	0.31
16	1	16.547	1.024	1069.95	1432.9	540.4	90.1	1.016	0.99	1.000	0.013	0.993	0.006	0.009	0.51	0.33
17	1	16.041	1.024	1069.85	1432.7	540.2	90.1	1.012	0.99	1.000	0.021	0.990	0.005	0.007	0.41	0.30
18	1	15.522	1.024	1069.49	1432.6	539.9	89.8	0.999	0.98	1.000	0.041	0.980	0.009	0.005	0.29	0.55
19	1	15.023	1.025	1069.74	1432.1	540.1	89.8	1.004	0.98	1.000	0.034	0.983	0.004	0.003	0.18	0.22
20	1	14.467	1.025	1070.22	1431.7	540.0	90.2	0.999	0.98	1.000	0.043	0.979	0.005	0.002	0.13	0.32
21	1	14.020	1.024	1069.08	1431.8	539.2	89.9	0.988	0.97	1.000	0.058	0.971	0.006	0.000	0.02	0.35
22	1	13.512	1.023	1068.77	1431.8	539.1	89.8	0.985	0.97	1.000	0.063	0.969	0.006	0.000	0.02	0.33
23	1	13.039	1.024	1069.22	1432.8	540.1	89.7	0.988	0.97	1.000	0.063	0.969	0.006	0.001	0.07	0.33
24	1	12.541	1.024	1069.29	1433.9	540.6	89.6	1.004	0.99	1.000	0.026	0.987	0.007	0.006	0.35	0.42
25	1	12.028	1.025	1070.36	1435.6	541.5	90.1	1.052	1.02	1.000	-0.043	1.022	0.009	0.011	0.63	0.50
26	1	11.509	1.025	1070.23	1434.7	541.4	90.2	1.053	1.02	1.000	-0.045	1.023	0.008	0.011	0.62	0.43
27	1	11.029	1.026	1070.49	1434.2	542.9	90.0	1.053	1.02	1.000	-0.044	1.022	0.006	0.010	0.56	0.35
28	1	10.531	1.027	1071.73	1434.3	543.3	90.0	1.044	1.01	1.000	-0.027	1.014	0.006	0.008	0.45	0.36
29	1	10.026	1.027	1072.15	1436.4	543.0	89.9	1.033	1.00	1.000	-0.008	1.004	0.006	0.006	0.36	0.37
30	1	9.519	1.026	1071.65	1434.1	541.5	90.1	1.023	1.00	1.000	0.006	0.997	0.006	0.004	0.24	0.36
31	1	8.965	1.026	1071.02	1432.3	540.7	89.9	1.019	0.99	1.000	0.012	0.994	0.009	0.003	0.15	0.51
32	1	8.522	1.024	1069.03	1429.9	539.6	89.7	1.006	0.98	1.000	0.032	0.984	0.002	0.001	0.06	0.11
33	1	8.020	1.023	1068.93	1429.8	539.3	90.1	1.012	0.99	1.001	0.019	0.991	0.007	0.000	0.01	0.39
34	1	7.518	1.025	1070.72	1429.8	539.6	90.1	1.015	0.99	1.001	0.018	0.991	0.004	-0.001	-0.07	0.20
35	1	6.996	1.026	1070.84	1430.3	540.0	89.9	1.008	0.99	1.001	0.031	0.985	0.006	-0.002	-0.12	0.36
36	1	6.503	1.025	1070.50	1431.4	540.0	89.9	1.001	0.98	1.003	0.044	0.980	0.006	0.003	0.20	0.37
37	1	6.006	1.026	1071.27	1432.6	540.9	90.1	1.003	0.98	1.001	0.038	0.982	0.006	-0.004	-0.24	0.35
38	1	5.496	1.026	1070.71	1433.0	541.1	89.6	0.991	0.97	1.000	0.057	0.972	0.006	-0.003	-0.21	0.36
39	1	5.041	1.027	1071.78	1434.7	541.9	90.1	0.992	0.97	1.001	0.057	0.972	0.006	-0.006	-0.35	0.35
40	1	4.547	1.026	1071.98	1435.5	542.2	89.9	1.003	0.98	1.004	0.040	0.983	0.006	-0.005	-0.28	0.32
41	1	4.016	1.027	1071.74	1436.2	542.5	90.1	0.988	0.45	0.997	0.031	0.952	0.005	-0.006	-0.35	0.33
42	1	3.525	1.027	1071.44	1436.2	542.6	90.0	1.000	0.98	1.003	0.048	0.978	0.006	-0.004	-0.24	0.37
43	1	3.018	1.026	1070.83	1435.3	541.8	89.9	0.979	0.96	1.000	0.076	0.962	0.006	-0.003	-0.18	0.35
44	1	2.483	1.025	1070.68	1434.7	541.3	90.1	0.985	0.97	1.001	0.067	0.967	0.009	-0.003	-0.16	0.56
45	1	2.037	1.025	1070.67	1433.7	540.9	89.9	0.979	0.96	1.001	0.076	0.962	0.006	-0.002	-0.13	0.36
46	1	1.525	1.025	1069.98	1433.3	540.7	89.7	0.978	0.95	1.000	0.078	0.961	0.004	-0.001	-0.06	0.37
47	1	0.974	1.025	1070.74	1433.1	540.8	90.1	0.982	0.96	1.001	0.071	0.965	0.007	-0.001	-0.04	0.39
48	1	0.477	1.025	1070.69	1433.0	540.8	90.0	0.983	0.97	1.001	0.070	0.965	0.006	0.001	0.07	0.36
49	1	0.019	1.026	1070.78	1432.6	541.7	89.8	0.988	0.97	1.000	0.065	0.968	0.004	0.002	0.12	0.37
50	1	-0.505	1.026	1071.02	1432.5	540.8	89.9	0.986	0.97	1.000	0.066	0.967	0.006	0.004	0.22	0.35
51	1	-0.968	1.025	1070.42	1431.7	540.3	89.8	0.989	0.97	1.001	0.059	0.971	0.006	0.005	0.30	0.35
52	1	-1.507	1.026	1070.42	1432.1	540.5	90.0	0.993	0.97	1.000	0.053	0.974	0.006	0.006	0.37	0.36
53	1	-1.935	1.025	1070.07	1432.0	540.4	90.1	0.998	0.98	1.000	0.044	0.978	0.006	0.006	0.35	0.36
54	1	-2.475	1.026	1071.09	1433.2	541.0	90.1	1.004	0.98	1.001	0.036	0.982	0.006	0.007	0.41	0.34
55	1	-2.967	1.026	1070.85	1432.9	540.9	89.8	1.004	0.98	1.000	0.035	0.983	0.006	0.007	0.42	0.34
56	1	-3.480	1.025	1070.36	1433.9	541.0	90.0	1.001	0.98	1.001	0.040	0.981	0.008	0.007	0.41	0.48
57	1	-3.987	1.025	1070.77	1434.3	541.3	90.1	1.006	0.98	1.000	0.033	0.984	0.006	0.007	0.42	0.37
58	1	-4.507	1.026	1071.14	1435.0	542.0	90.1	1.009	0.99	1.001	0.029	0.986	0.007	0.007	0.41	0.38
59	1	-4.[illegible]	1.027	1071.87	1435.5	542.3	90.0	1.005	0.98	1.000	0.030	0.982	0.006	0.007	0.41	0.37
60	1	-5.[illegible]	1.026	1070.66	1434.9	541.6	90.1	1.003	0.98	1.001	0.034	0.983	0.007	0.008	0.44	0.44