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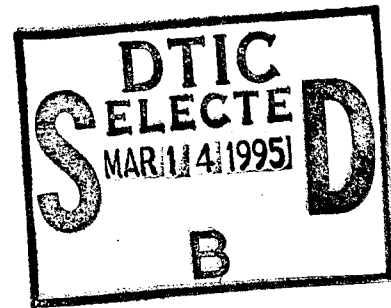


**COMPUTATIONAL FLUID DYNAMICS (CFD) ANALYSIS OF A C-135 AIRCRAFT
WITH A SIDE-MOUNTED SPLITTER PLATE (with comparison to wind tunnel data)**

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June 1994

Final Report for Period March 1993 - June 1993



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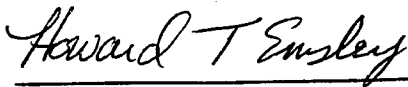
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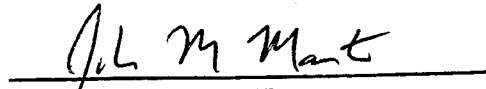
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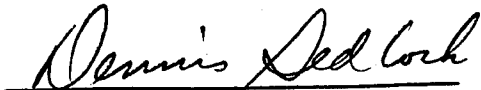
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1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE 27 June 94	3. REPORT TYPE AND DATES COVERED Final Report Mar 93 - Jun 93	
4. TITLE AND SUBTITLE Computational Fluid Dynamics (CFD) Analysis of a C-135 Aircraft with a Side-Mounted Splitter Plate (with comparison to wind tunnel data)			5. FUNDING NUMBERS PE: 62201F PR: 2404 TA: 10 WU: A1	
6. AUTHOR(S) Howard T. Emsley (513-255-4522)				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Flight Dynamics Directorate Wright Laboratory (WL/FIMC) Air Force Materiel Command Wright-Patterson AFB OH 45433-7562			8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) Flight Dynamics Directorate Wright Laboratory (WL/FIMC) Air Force Materiel Command Wright-Patterson AFB OH 45433-7562			10. SPONSORING / MONITORING AGENCY REPORT NUMBER WL-TR-94-3089	
11. SUPPLEMENTARY NOTES Support effort performed for 4950 Test Wing and Airborne Laser SPO				
12a. DISTRIBUTION / AVAILABILITY STATEMENT Approved for public release; distribution is unlimited			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) A Computational Fluid Dynamics (CFD) analysis was performed on a C-135 aircraft with a side-mounted splitter plate at the request of the Airborne Laser SPO at Kirtland AFB, and the 4950 Test Wing at Wright-Patterson AFB. The data collected from the analysis was provided to the Test Wing to augment wind tunnel tests and to provide loading and stability information on the modified aircraft. This work was a precursor to a planned flight test program in which a splitter plate will be tested on a Test Wing aircraft. Four flight conditions were analyzed with a modified and unmodified C-135 aerodynamic model, and incremental stability and aerodynamic derivatives were determined. Additionally, pressure coefficient data were tabulated for use in a structural analysis by the Test Wing.				
14. SUBJECT TERMS Euler Methods Computational Fluid Dynamics			15. NUMBER OF PAGES 102	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT UL	

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Foreword

The subject analysis was performed by Mr Howard Emsley and Mr Ken Wurtzler of the Flight Dynamics Directorate, Wright Laboratory (WL/FIMC) at the request of the Airborne Laser (ABL) SPO at Phillips Lab, Kirtland AFB. Capt John Wissler of the ABL SPO served as the directing authority for this support effort and Dr James Van Kuren provided direction as the resident consultant for the ABL SPO. This analysis was performed to support a planned ABL flight test in which a large splitter plate configuration will be mounted on the side of a C-135 aircraft.

Acknowledgements

This work was performed with the cooperation of personnel from the Airborne Laser (ABL) SPO at Kirtland AFB, the 4950TW at Wright-Patterson AFB, and Dr James Van Kuren who is serving as an ABL SPO consultant. A special thanks goes to members of Wright Laboratory (WL/FIMC) for their code developing efforts which provided the tools necessary to perform this analysis.

All wind tunnel data used in this report comes from tests conducted at the Trisonic Gasdynamics Facility, Wright Laboratory (WL/FIME) in April 1993. This data was made available by Dr Van Kuren, for comparison with the numerical results.

Nomenclature

Alpha	<i>Angle of Attack</i>
AOA	<i>Angle of Attack</i>
Beta	<i>Sideslip Angle</i>
CD	<i>Coefficient of Drag</i>
CFD	<i>Computational Fluid Dynamics</i>
CL	<i>Coefficient of Lift</i>
CMpitch	<i>Pitching Moment Coefficient</i>
CMyaw	<i>Yawing Moment Coefficient</i>
CMroll	<i>Rolling Moment Coefficient</i>
Cp	<i>Coefficient of Pressure</i>
CPU	<i>Central Processing Unit</i>
CY	<i>Coefficient of Yaw</i>
deg	<i>Degrees (angular)</i>
FIMC	<i>Computational Fluid Dynamics Branch, Aeromechanics Division, Flight Dynamics Directorate</i>
KEAS	<i>Knots Equivalent Air Speed</i>
mxx	<i>Moment about the X-Axis</i>
myy	<i>Moment about the Y-Axis</i>
mzz	<i>Moment about the Z-Axis</i>
px	<i>Pressure in the X Direction</i>
py	<i>Pressure in the Y Direction</i>
pz	<i>Pressure in the Z Direction</i>
q	<i>Dynamic Pressure</i>
Ve	<i>Velocity</i>
WL	<i>Wright Laboratory</i>

1. Introduction

The splitter plate/optical window configuration (see Figure 1) was designed to provide an environment where optical testing can be performed without the interference of the turbulent boundary layer created by the aircraft's fuselage. The pylon, which is mounted on the side of the aircraft, places the splitter plate at least 12 inches away from the fuselage and outside the fuselage boundary layer. By mounting the splitter plate in this fashion, the optical testing will only have to contend with a regenerated thin boundary layer that starts at the front of the plate.

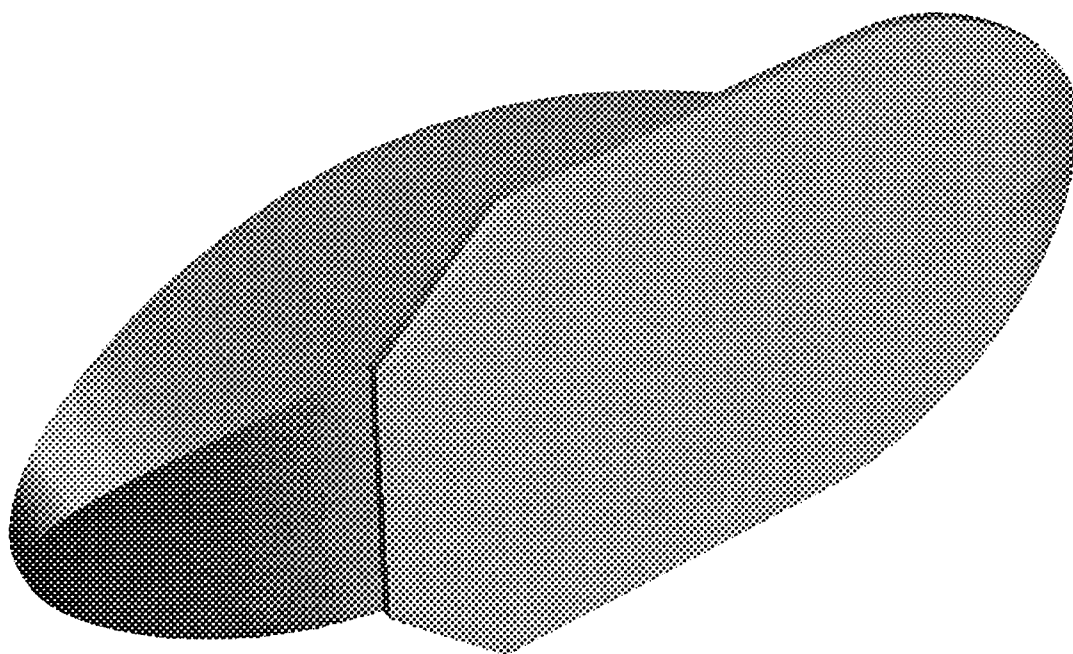


Figure 1: Splitter Plate and Pylon

Concern over the flight characteristics of the modified aircraft as well as concerns about structural loading prompted wind tunnel and Computational Fluid Dynamics (CFD) work to be performed by WL/FIME and WL/FIMC respectively. Structural analysis of the configuration is being performed by the 4950TW/AMDA with pressure data provided by the CFD analysis.

Some results from the wind tunnel testing will be presented in this report, however, complete results are found in Reference 1. For results from the structural analysis, the reader is directed to Mr Kelly Kennedy, 4950TW/AMDA.

The splitter plate/pylon design, geometric measurements of the splitter plate, and its mounting location on the aircraft were provided to WL/FIMC by Dr Jim Van Kuren and Capt Wissler. The test conditions for the CFD analysis (see Table 1) were provided to WL/FIMC by Mr C. E. Cook of 4950TW/AMDA on 1 March 1993 and were confirmed by the ABL SPO in early March.

Table 1: Flight Conditions

Test Pt.	Altitude (feet)	Airspeed (KEAS)	Mach No.	AOA (deg)	Sideslip (deg)	CL**
1	23,800	393	0.95	1.4	4.1	0.21
2	23,800	393	0.95	5.5	4.1	0.525
3	0	240	0.36	14.6	14.5	1.16
4	45,000	189	0.76	3.0	0.0	0.58

**Note: the CL values provided in this table are for a complete C-135 in trim. The analyses performed do not include nacelle/pylon contributions and do not include the effects of rudder, elevator, or flap deflections.

It was explained to WL/FIMC that concern over changes in the flight characteristics of the modified aircraft was the main reason a CFD analysis was requested. Therefore, it was proposed that the total aircraft be modeled (with and without the splitter plate) and analyzed at the four test

points. By proceeding in this fashion, incremental effects of adding the plate/pylon configuration could be determined. For this report the C-135 aircraft without the splitter plate is called the "clean" configuration, and the C-135 aircraft with the plate and pylon mounted on the right side of the fuselage is called the "dirty" configuration.

2. Geometric Issues

From previous work for the 4950TW, WL/FIMC had a suitable model of a C-135 wing/body/tail configuration without engine pylons and nacelles. For the dirty case, the plate/pylon geometry was created with a local CAD/CAM system and added to the existing C-135 geometry. A small support strut which is located under the front of the plate for structural strength was omitted from this analysis due to the increased geometric complications that it would introduce and the minor aerodynamic effects it would produce.

For the dirty configuration, the plate/pylon (location provided by Capt John Wissler) was added to the geometry with the front of the elliptical pylon located at fuselage station 405.35 inches. Based on the provided dimensions, the center of the test window is located at fuselage station 460 inches (see Figure 2). The location of the plate/pylon was driven by aircraft modification limitations.

For this analysis, the pylon was placed with zero angle of attack relative to the fuselage of the aircraft. The minimum distance between the plate and the fuselage was specified as 12 inches by Dr Van Kuren and occurs between the lower half of the plate and the fuselage approximately one quarter of the distance aft from the front of the pylon. The very front of the plate which is dipped towards the fuselage is just under 13 inches away from the fuselage.

For the calculation of the coefficients, the following reference areas, moment reference lengths, and moment reference points were provided by the 4950TW/AMDA:

Wing Reference Area = 700700 sq in

Moment	x = 1570.00 in	Moment	x = 846.64 in
Reference	y = 241.88 in	Reference	y = 0.00 in
Lengths	z = 1570.00 in	Point	z = 200.00 in

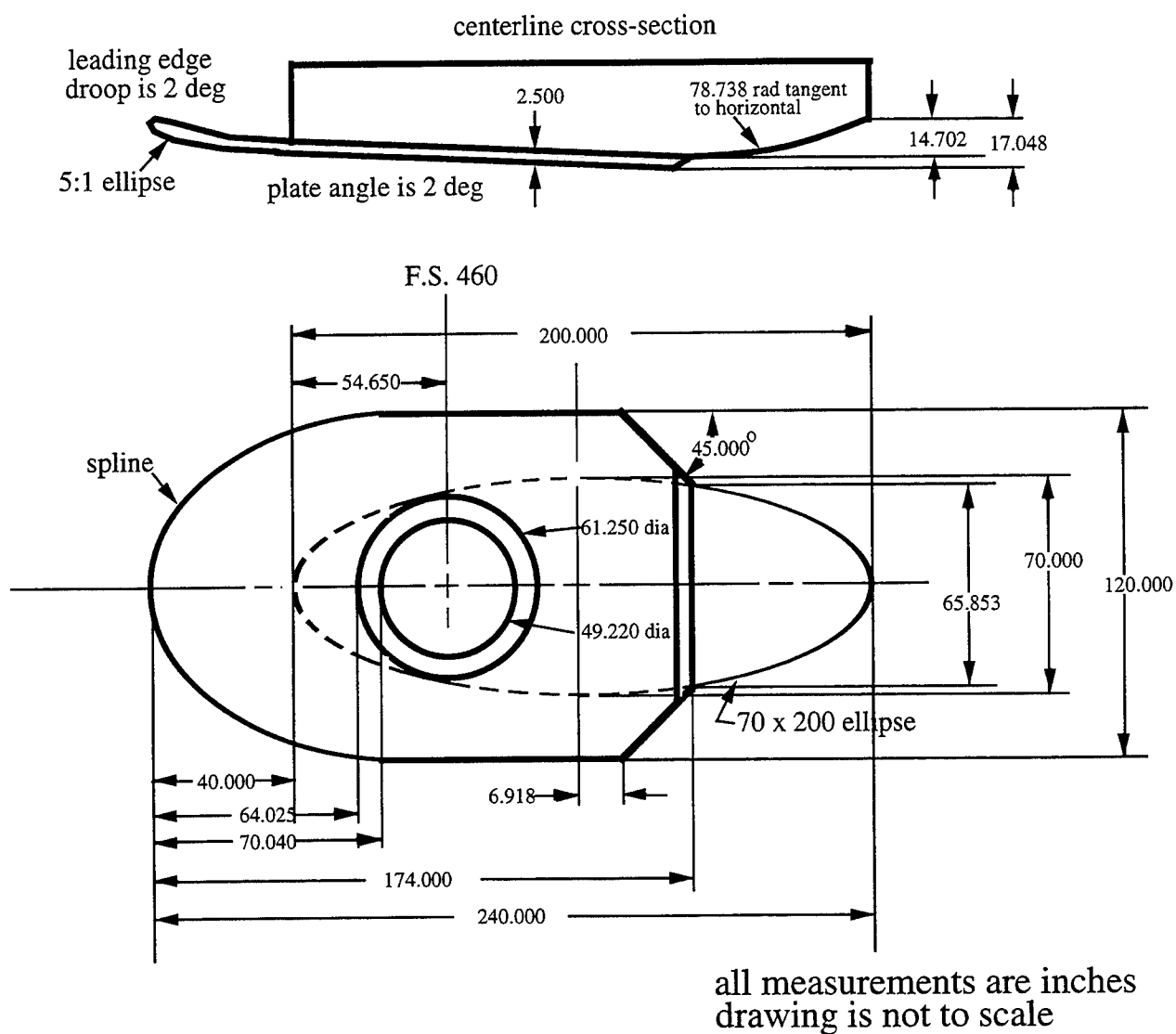


Figure 2: Splitter Plate and Pylon Dimensions

The coordinate system orientation and the positive moment directions are shown below in the figure below.

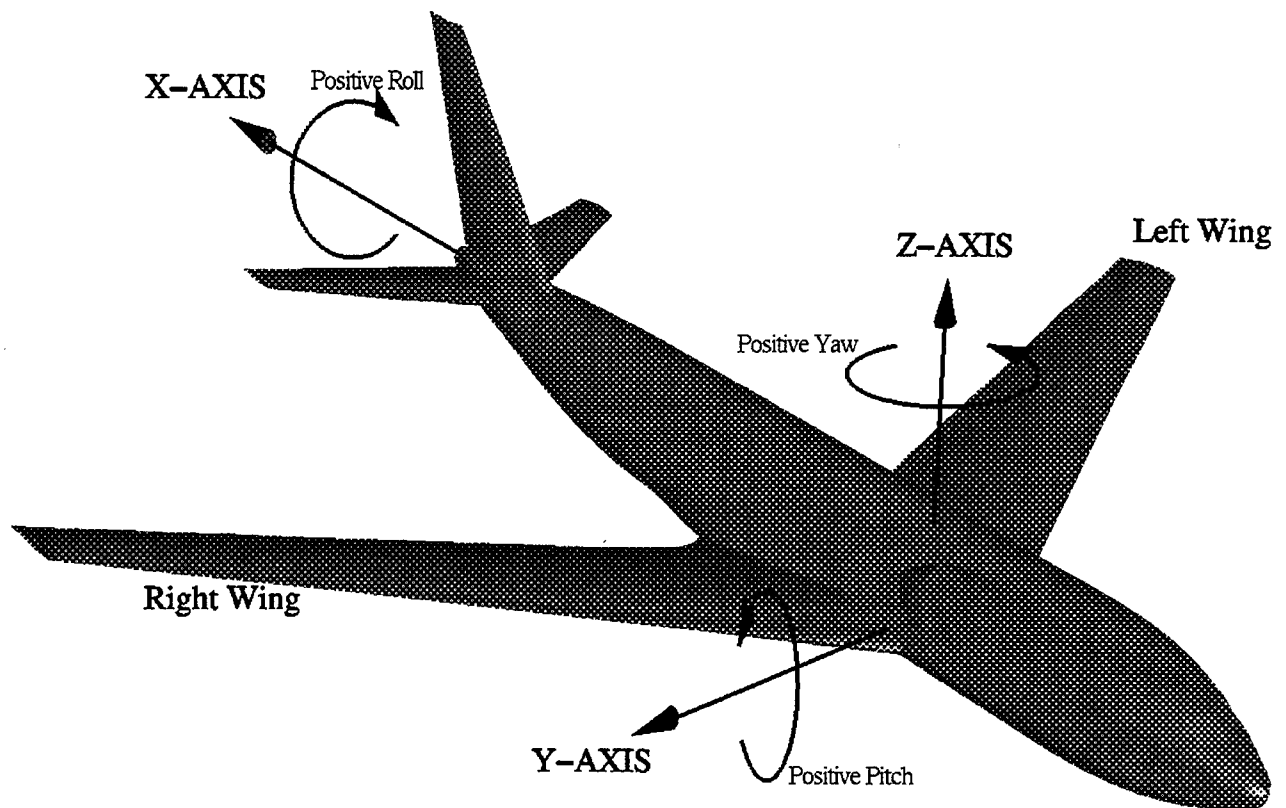


Figure 3: Coordinate System Orientation

3. Grid Generation

With the use of in-house grid generation tools (I3G/VIRGO and PLUTO) [2,3], separate computational grids were generated for each configuration (clean and dirty). The grid for the clean configuration consisted of 22 computational blocks with a total of 1,366,720 grid points and the dirty configuration consisted of 33 computational blocks with a total of 1,379,250 grid points. Differences in the size and the number of blocks in each grid is a direct result of geometric complications added by the plate and pylon.

4. Flow Solver

The flow solver used for this analysis, MERCURY, is an in-house Euler code that was developed by Mr William Strang of WL/FIMC [4]. Over the past six years, this code has proven to be very fast, robust, and accurate in calculating flows like those occurring in this analysis. MERCURY is an inviscid flow solver and therefore cannot model the boundary layer that is a concern for this program. It can, however, provide conservative loading information, capture shocks that may occur, and indicate the paths of particles and vortices. This is not a claim that an inviscid solver provides exact measurements in highly viscous regions. Yet, from past experience this solver has produced load information that has proven to be conservative in regions where viscous flows exist. With this in mind, the flight conditions provided for test point #3 contain an extreme beta condition that can produce significant separation on the leeward side of the aircraft. The results in this case should be viewed qualitatively, especially for the dirty configuration where significant separation is expected to occur on the outboard side of the plate. For additional information on the code specifics, the reader is directed to AFWAL-TM-88- 217, "MERCURY User's Manual."

Viscous solvers, such as the TEAM and GASP codes, were considered for this problem, but the time constraints and the computational resources available did not allow an analysis of this magnitude.

5. Flow Conditions and Computation Time

For this report, a total of nine flow solution "cases" (five clean cases and four dirty cases) have been run. The Kirtland Cray II was used to calculate the solutions with each case requiring approximately 35 MW of internal memory. On average, 6000 iterations per solution were needed to reach acceptable levels of solution convergence (density residual reduced by 4 orders of magnitude). Each clean case took 28 seconds per iteration while each dirty case took 29 seconds/iteration. This translates into 168,000 seconds per solution (46.67 CPU hours) for each clean case and 174,000 seconds per solution (48.33 CPU hours) for each dirty case. The flow conditions for each case are based on the conditions provided by the 4950TW with several modifications. For the clean cases the actual conditions used are found in Table 2, and for the dirty cases the conditions used are found in Table 3.

Table 2: Clean Case Test Conditions

Mach Number	Angle of Attack (Alpha)	Sideslip Angle (Beta)
0.95	5.5 deg	-4.1 deg
0.95	1.4 deg	-4.1 deg
0.87	1.4 deg	-4.1 deg
0.36	14.6 deg	-14.5 deg
0.76	3.0 deg	0.0 deg

Table 3: Dirty Case Test Conditions

Mach Number	Angle of Attack (Alpha)	Sideslip Angle (Beta)
0.95	5.5 deg	-4.1 deg
0.87	1.4 deg	-4.1 deg
0.36	14.6 deg	-14.5 deg
0.76	3.0 deg	0.0 deg

A negative sideslip angle was used as a direct result of the beta of most concern to the 4950TW. For the clean configuration, the direction the aircraft is sideslipped is not critical due to the symmetry of the aircraft, but for the dirty configuration this direction is crucial.

In the MERCURY flow solver, a negative beta implies that the nose of the aircraft yaws to the right (see Figure 3). Therefore, the decision to use negative beta conditions places the plate on the leeward side of the aircraft in yawed cases. This decision was made due to loading and aerodynamic concerns which were expected to be more significant than those for positive beta conditions. By changing signs of the results for the clean cases, it is possible to use the values for direct comparison with the dirty cases.

In addition to the change of beta, a change in Mach number from 0.95 to 0.87 was made for the dirty cases and led to an additional run of a clean case for direct comparison. This decision was made to add a flight condition clearly within the envelope as compared to those on the margin. With the plate and pylon mounted on the aircraft, it is unlikely that the aircraft will be flown at the outer limits of its Mach envelope. This change was made with the concurrence of Capt Wissler.

6. CFD Results

Results from this analysis are presented in a variety of forms in the following sections.

6.1 Tables of Coefficients

Coefficients of Lift (CL), Drag (CD), Yaw (CY), as well as Moment Coefficients for Pitch (CMpitch), Yaw (CMyaw), and Roll (CMroll) were created for the clean and dirty solutions (Tables 4 and 5). In addition, incremental coefficient changes (Table 6) were calculated for the three cases where a direct comparison of flow conditions was possible.

The tabulated results show that the presence of the plate/pylon reduces the CL for moderate angles of attack. Although the pylon produces some lift, its influence on the right wing creates a net loss. In turn, the reduced lift on the right wing of the aircraft and the increased lift on the pylon appears to add to the nose up pitching moment and increases the negative rolling moment. In addition, the changed flow on the right wing leads to an increased positive yawing moment. By changing the downwash from the right wing, the airflow on the right side of the vertical tail is accelerated and produces additional yaw.

Results from the Mach 0.36 case illustrate a more complex flow field, and should be viewed in a qualitative manner. The severe angles of attack and sideslip produce massive separation on the left wing and the right side of the vertical tail and produces a wake off of the plate which follows the trailing edge of the wing (see Figure 11). The tabulated data shows a small increase in CL while CD increases significantly. It is important to remember that optical data will not be taken at this flight condition. Therefore, interest in this condition is purely for control and structural purposes.

Table 4: Coefficients for the Clean C-135

MACH	ALPHA (deg)	BETA (deg)	CL	CD	CY	CMpitch	CMyaw	CMroll	AXIS
0.95	5.5	-4.1	0.4723	0.09357	0.02082	-0.25269	0.008940	0.020049	W
			0.4723	0.09184	0.02746	-0.25348	0.008940	0.001931	S
			0.4790	0.04615	0.02746	-0.25348	0.008714	0.002779	B
0.95	1.4	-4.1	0.2831	0.04953	0.02575	-0.17381	0.009773	-0.016108	W
			0.2831	0.04757	0.02922	-0.17451	0.009773	-0.003639	S
			0.2841	0.04064	0.02922	-0.17451	0.009681	-0.003877	B
0.87	1.4	-4.1	0.3168	0.03357	0.03083	-0.10977	0.011409	-0.016773	W
			0.3168	0.03128	0.03315	-0.11069	0.011409	-0.008882	S
			0.3175	0.02353	0.03315	-0.11069	0.011189	-0.009158	B
0.36	14.6	-14.5	0.5239	0.12461	0.01152	-0.20866	0.010332	0.071486	W
			0.5239	0.11776	0.04236	-0.21991	0.010332	0.016965	S
			0.5366	-0.01810	0.04236	-0.21991	0.005722	0.019022	B
0.76	3.0	0.0	0.3486	0.02182	0.00000	-0.10001	0.000000	0.000000	W
			0.3486	0.02182	0.00000	-0.10001	0.000000	0.000000	S
			0.3492	0.00355	0.00000	-0.10001	0.000000	0.000000	B

(Axis Systems: W = Wind, S = Stability, B = Body)

NOTE: For this analysis, a negative beta indicates the nose sideslips toward the right wing.

Table 5: Coefficients for the C-135 with Splitter Plate and Pylon

MACH	ALPHA	BETA	CL	CD	CY	CMpitch	CMyaw	CMroll	AXIS
	(deg)	(deg)							
0.87	5.5	-4.1	0.4856	0.07605	0.03039	-0.14908	0.014029	-0.020329	W
			0.4856	0.07368	0.03575	-0.15015	0.014029	-0.009618	S
			0.4904	0.02680	0.03575	-0.15015	0.013042	-0.010919	B
0.87	1.4	-4.1	0.3071	0.03356	0.03214	-0.10517	0.012059	-0.016904	W
			0.3071	0.03118	0.03446	-0.10611	0.012059	-0.009341	S
			0.3078	0.02367	0.03446	-0.10611	0.011827	-0.009633	B
0.36	14.6	-14.5	0.5246	0.13415	0.04090	-0.21835	0.024171	-0.072048	W
			0.5246	0.11964	0.07318	-0.22944	0.024171	-0.015082	S
			0.5378	-0.01647	0.07318	-0.22944	0.019588	-0.020688	B
0.76	3.0	0.0	0.3377	0.02318	0.00207	-0.08511	0.002170	-0.001423	W
			0.3377	0.02318	0.00207	-0.08511	0.002170	-0.001423	S
			0.3384	0.00548	0.00207	-0.08511	0.002093	-0.001534	B

(Axis Systems: W = Wind, S = Stability, B = Body)

NOTE: For this analysis, a negative beta indicates the nose sideslips toward the right wing. The plate is on the leeward side of the aircraft for all dirty cases.

Table 6: Incremental Coefficient Changes

INCREMENTAL COEFFICIENT CHANGES BETWEEN CLEAN AND DIRTY CONFIGURATIONS
DIRTY RESULTS MINUS CLEAN RESULTS (WIND-AXIS ONLY)

			(delta)	(delta)	(delta)	(delta)	(delta)	(delta)
MACH	ALPHA	BETA	CL	CD	CY	CMpitch	CMyaw	CMroll
	(deg)	(deg)						
0.87	1.4	-4.1	-0.0097	-0.00001	0.00131	0.00460	0.000650	-0.000131
0.36	14.6	-14.5	0.0007	0.00954	0.02938	-0.00969	0.013839	-0.000562
0.76	3.0	0.0	-0.0109	0.00136	0.00207	0.01490	0.002170	-0.001423

6.2 Particle Trace Plots for Clean Aircraft

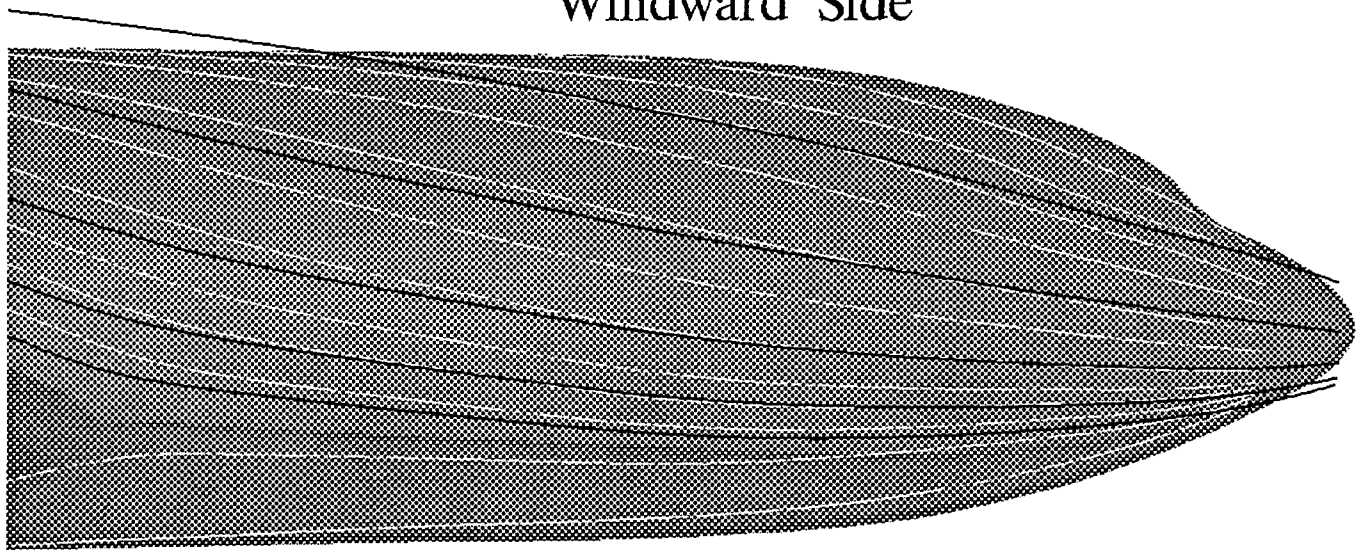
The particle trace plots for the clean cases are shown in Figures 4 - 8. The plots are provided to illustrate the angle of the air flow for a cross-section of the cases run.

The particle traces on the clean configuration shown in the following figures are plotted on and off the fuselage surface. The white streamlines are on the surface and the black streamlines are started approximately 1 foot off the surface (roughly the height of the pylon).

The plots show that the flow angularity is greater on the surface than off the surface in all cases. In general, the flow angle is approximately equal to the angle of attack (α) in the region where the plate will be attached, but it increases significantly as the flow approaches the wing.

These plots are only a sampling of the plots that were viewed by the investigators. The additional plots viewed were consistent with the trends demonstrated in those selected.

Windward Side



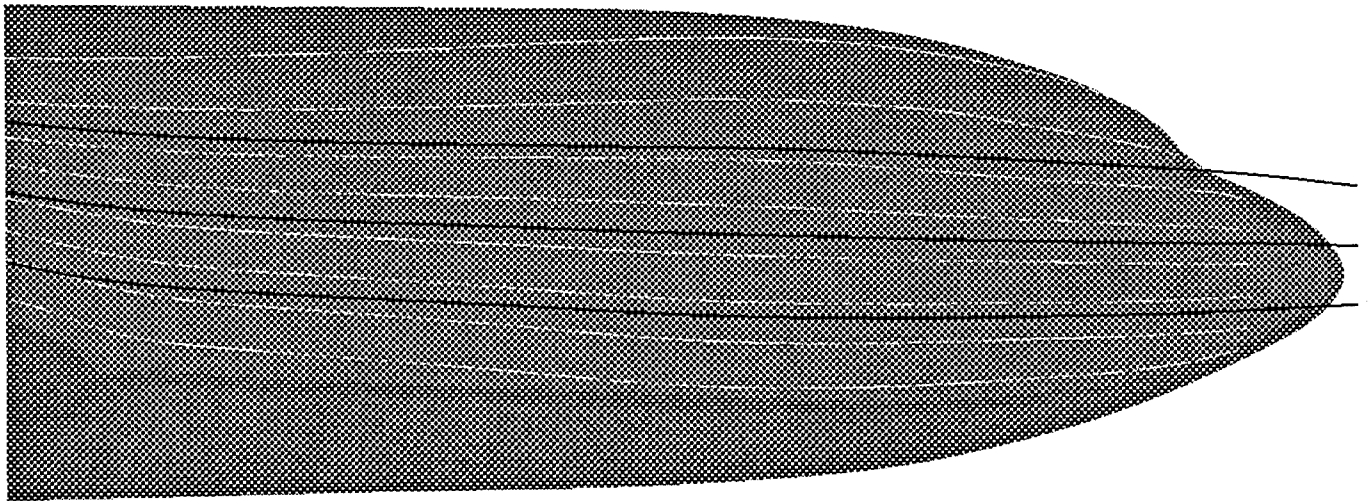
White Streamlines: on surface
Black Streamlines: above surface

Mach # = 0.95
Alpha = 5.1 deg
Beta = 4.1 deg

Figure 4: C-135 with Velocity Vectors on Surface (Windward Side)

(Mach=0.95, Alpha=5.5 deg, Beta=4.1 deg)

Leeward Side



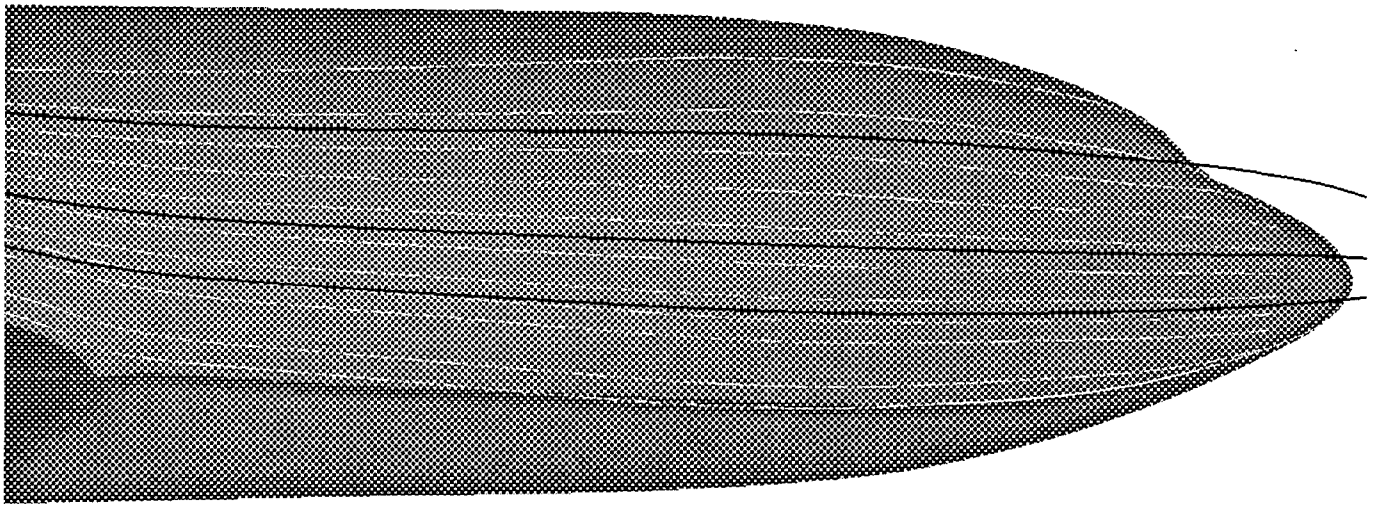
White Streamlines: on surface
Black Streamlines: above surface

Mach # = 0.95
Alpha = 1.4 deg
Beta = -4.1 deg

Figure 5: C-135 with Velocity Vectors on Surface (Leeward Side)

(Mach=0.95, Alpha=1.4 deg, Beta=-4.1 deg)

Leeward Side



White Streamlines: on surface
Black Streamlines: above surface

Mach # = 0.87
Alpha = 1.4 deg
Beta = -4.1 deg

Figure 6: C-135 with Velocity Vectors on Surface (Leeward Side)

(Mach=0.87, Alpha=1.4 deg, Beta=-4.1 deg)

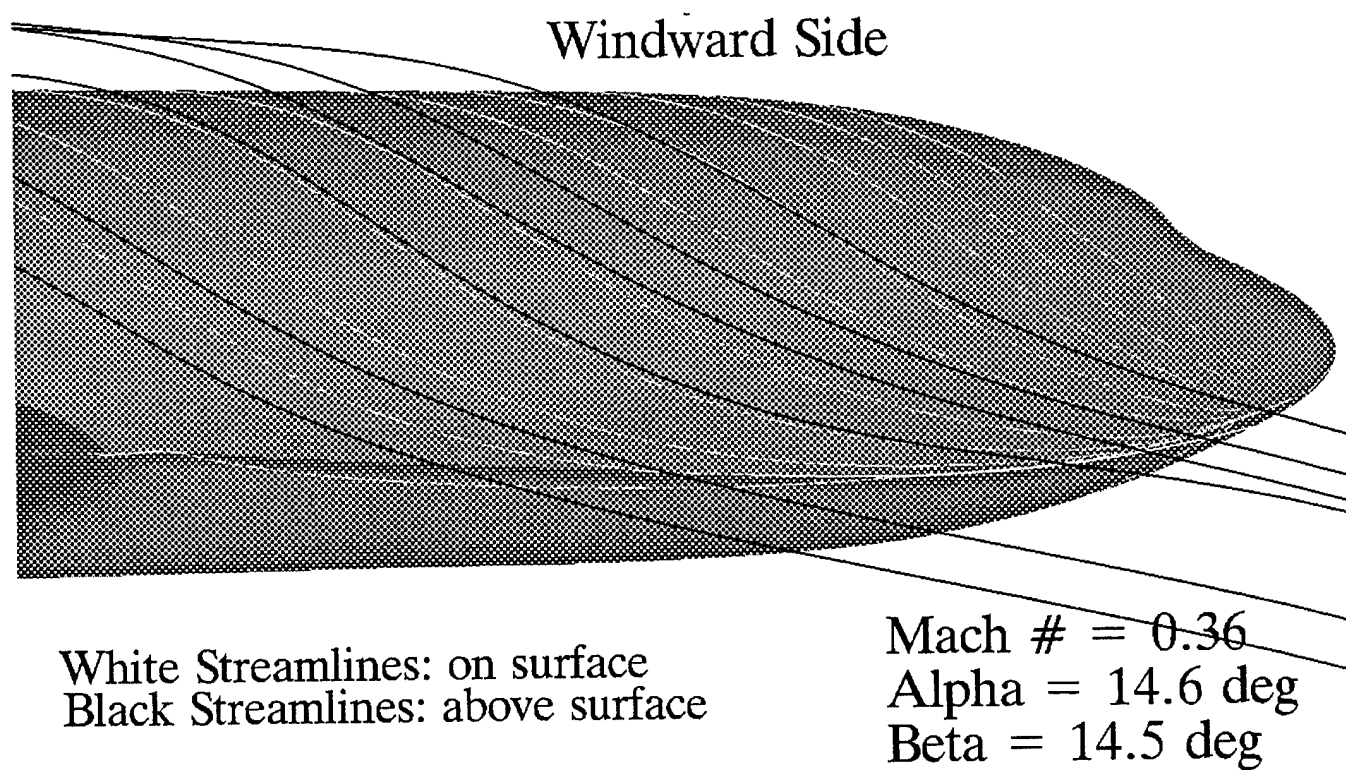
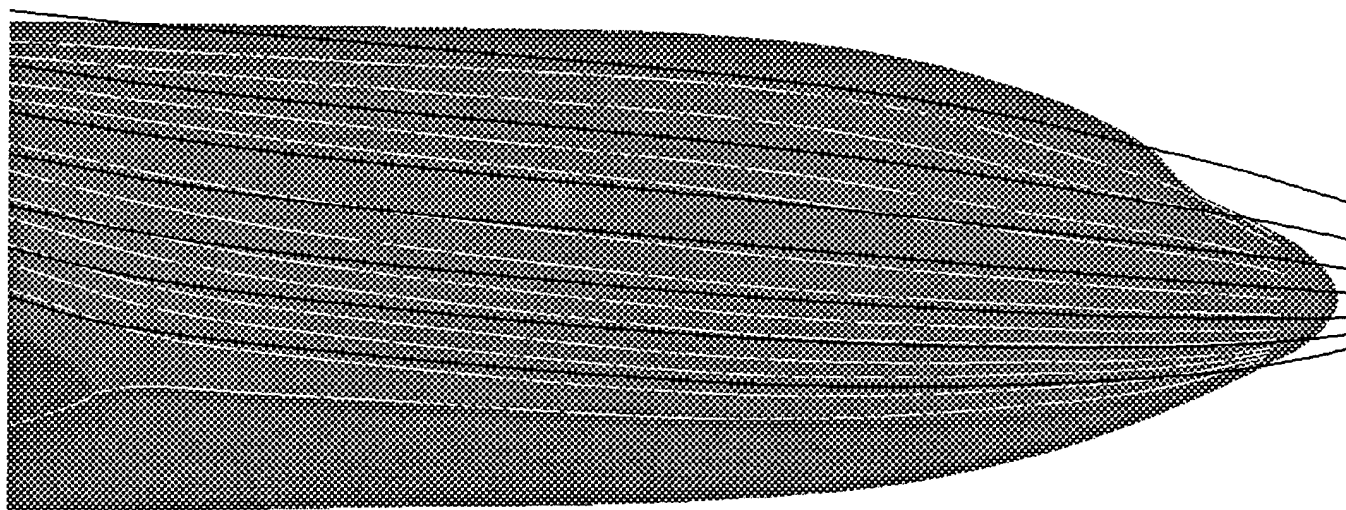


Figure 7: C-135 with Velocity Vectors on Surface (Leeward Side)

(Mach=0.36, Alpha=14.6 deg, Beta=14.5 deg)



White Streamlines: on surface
Black Streamlines: off surface

Mach = 0.76
Alpha = 3.0 deg
Beta = 0.0 deg

Figure 8: C-135 with Velocity Vectors on Surface

(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

6.3 Particle Trace Plots for Dirty Aircraft

The Particle trace plots shown over the dirty aircraft in Figures 9 - 12 illustrate how the plate/pylon affects the flow over the aircraft. These plots should be used in conjunction with the pictures described in Section 6.4 to gain a better understanding of the air flow.

The particle traces shown in the following figures are plotted on the dirty aircraft in the region around the plate/pylon. The particles were released just upstream of the plate/pylon at a variety of heights and locations in an attempt to view the flow disturbance produced by the modification. Figures 9,10 and 12 show that the dirty flow produced by the plate/pylon swirls a little as it goes around the pylon and then passes under the horizontal stabilizer due to the downwash produced by the wing.

Figure 11 shows the particle traces which occur at severe angles of attack and sideslip. It appears that the flow wraps around the nose and fuselage without severe separation occurring on the plate. A vortical wake is produced off the trailing edge of the plate which passes outboard of the horizontal tail. Part of this wake also follows along the trailing edge of the wing. The lack of separated flow on the plate was initially surprising due to the amount of separated flow which appears on the leeward side of the vertical tail (see Figure 20). Two possible reasons for this lack of separation are the flow angle in the plate's proximity is significantly straightened by the presence of the fuselage, and/or the Euler formulation of the code did not capture the viscous effects which may cause separation.

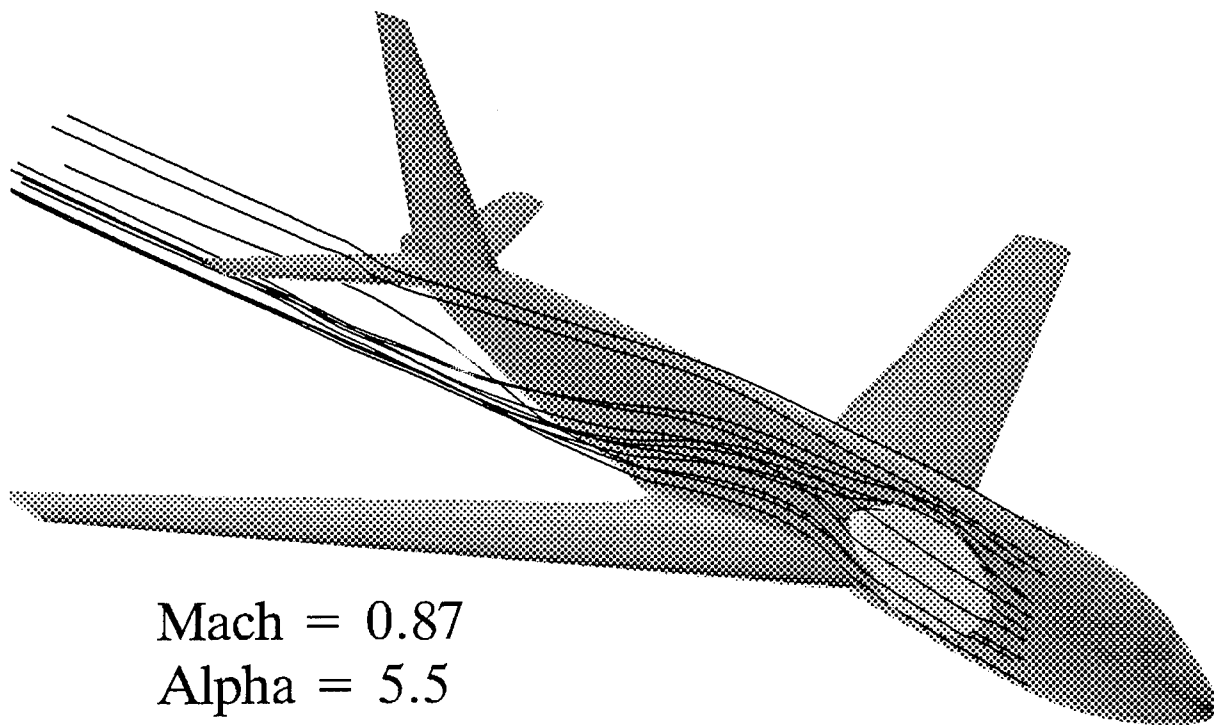
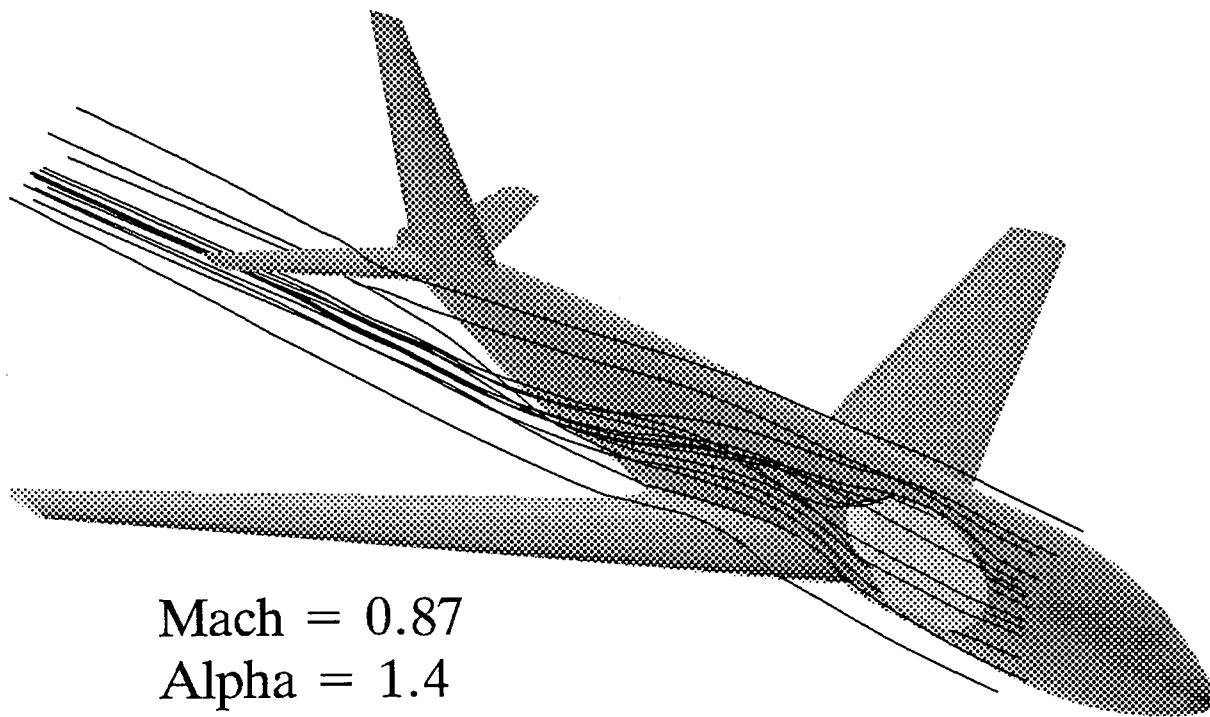
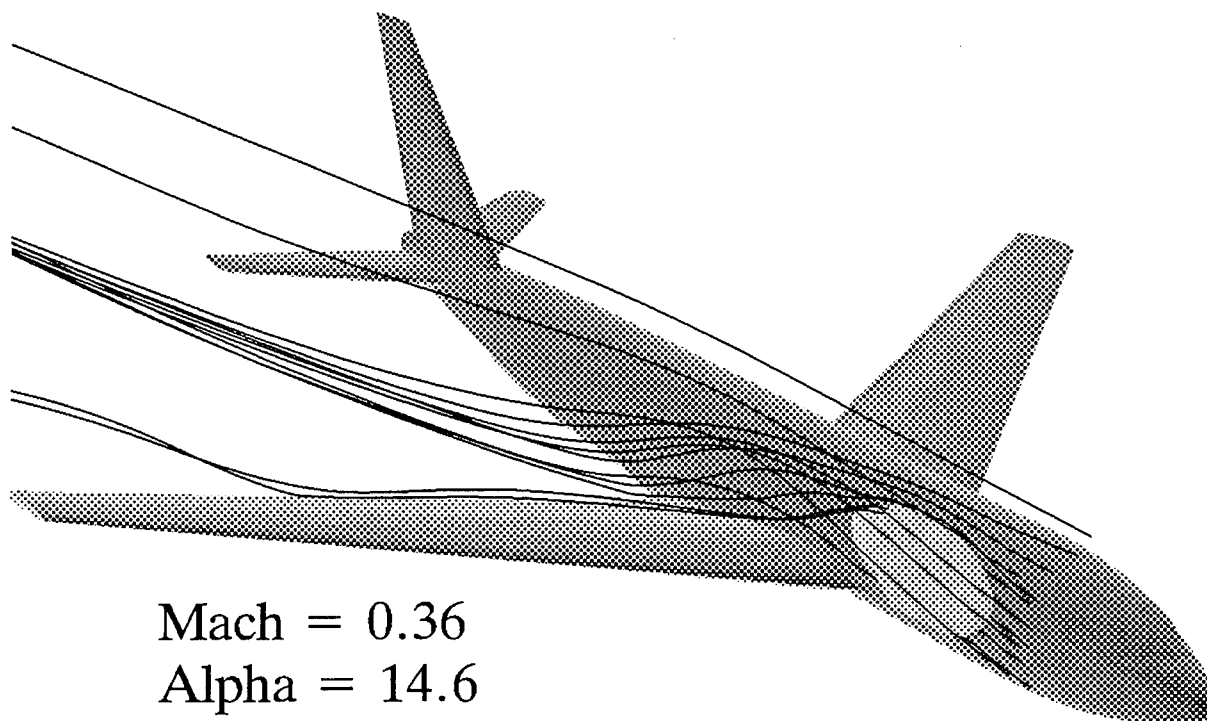


Figure 9: C-135 with Splitter Plate (Particle Traces)
(*Mach=0.87, Alpha=5.5 deg, Beta=-4.1 deg*)



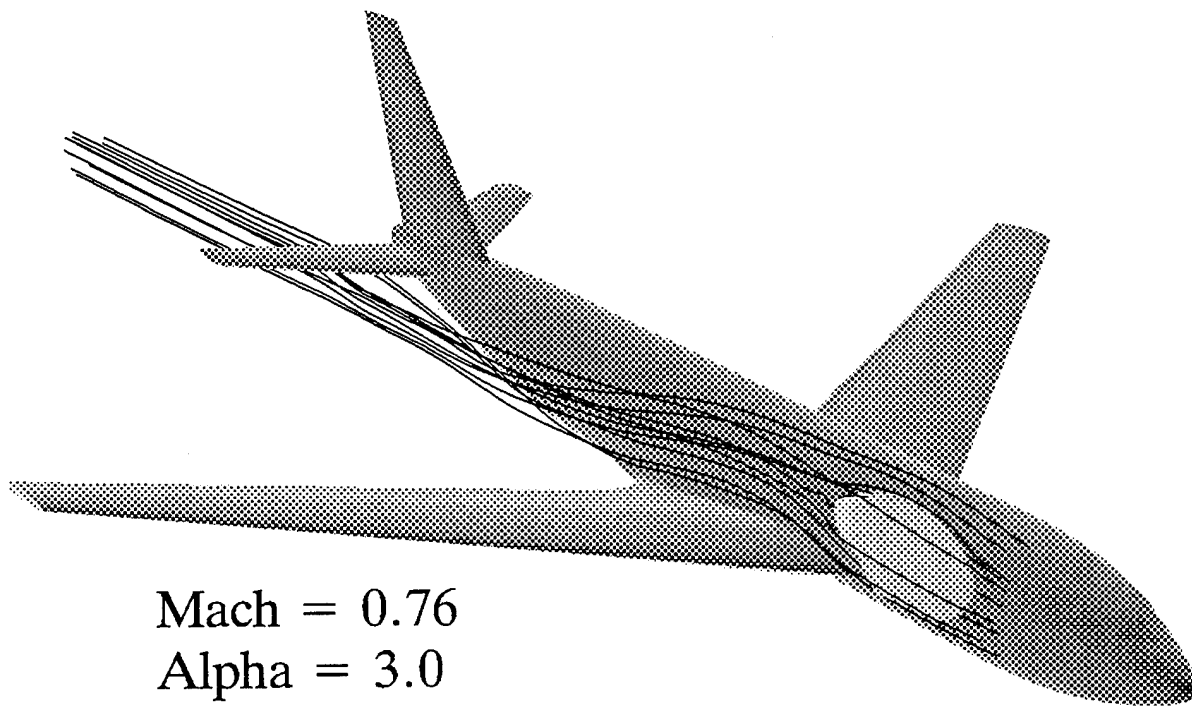
Mach = 0.87
Alpha = 1.4
Beta = -4.1

Figure 10: C-135 with Splitter Plate (Particle Traces)
(Mach=0.87, Alpha=1.4 deg, Beta=-4.1 deg)



Mach = 0.36
Alpha = 14.6
Beta = -14.5

Figure 11: C-135 with Splitter Plate (Particle Traces)
(*Mach=0.36, Alpha=14.6 deg, Beta=-14.5 deg*)



Mach = 0.76
Alpha = 3.0
Beta = 0.0

Figure 12: C-135 with Splitter Plate (Particle Traces)
(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

6.4 Mach Number Contour Plot on the Dirty Aircraft

The Mach number contour plots of the dirty configuration (Figures 13 - 23) illustrate the effects of mounting the plate/pylon. Note: the Mach number range differs on each plot to maximize the flow differentiation for each case.

The following plots contain two views of each dirty configuration run, and one view of the clean configuration where the flight conditions match. These plots should be used in conjunction with the previous particle trace plots to get a full picture of the flowfield. When viewing the contour plots the reader is reminded that for inviscid solutions of this type, peak Mach numbers tend to be higher with shocks occurring further aft.

6.4.1 Mach=0.87, Alpha=5.5 deg, Beta=-4.1 deg

The first pair of plots, Figures 13 and 14, show the Mach=0.87, Alpha=5.5 degrees, Beta=-4.1 degrees case. On these plots, one sees uneven shocks on the wings and the accelerated flow on the leeward side of the vertical tail. Both of these conditions are attributed to the presence of sideslip. Also visible is the acceleration that occurs on the plate where the front begins to droop and on the top of the elliptical pylon. The stagnation that occurs on the pylon just aft of the plate indicates a very thin layer of stagnant flow that is present due to the blunt trailing edge of the plate. The wing aft of the plate/pylon shows lower Mach numbers near the root which leads to the reduced lift and increased rolling moment that the aircraft experiences at these flight conditions.

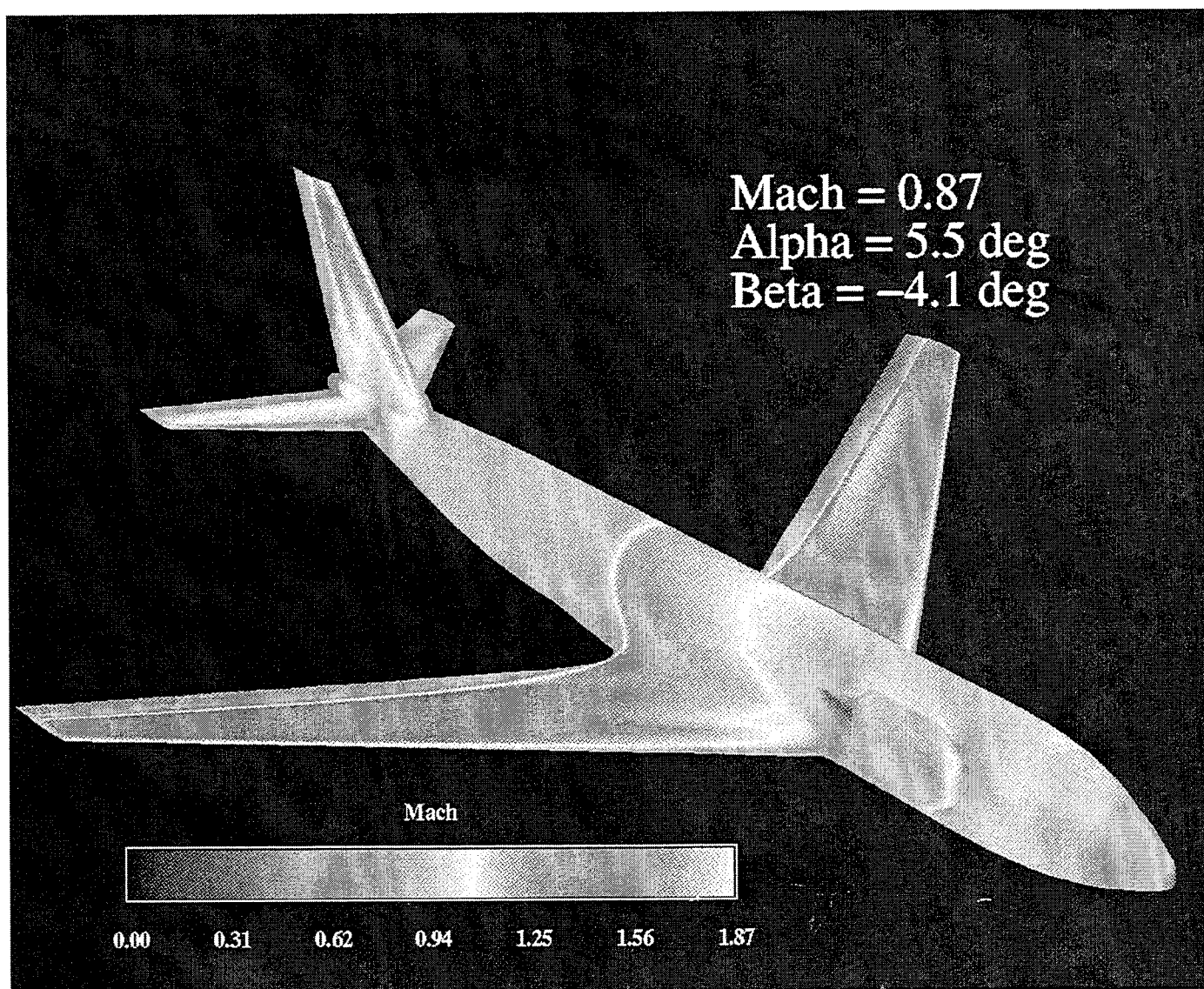


Figure 13: Dirty C-135 (Mach Contours)

(Mach=0.87, Alpha=5.5 deg, Beta=-4.1 deg)

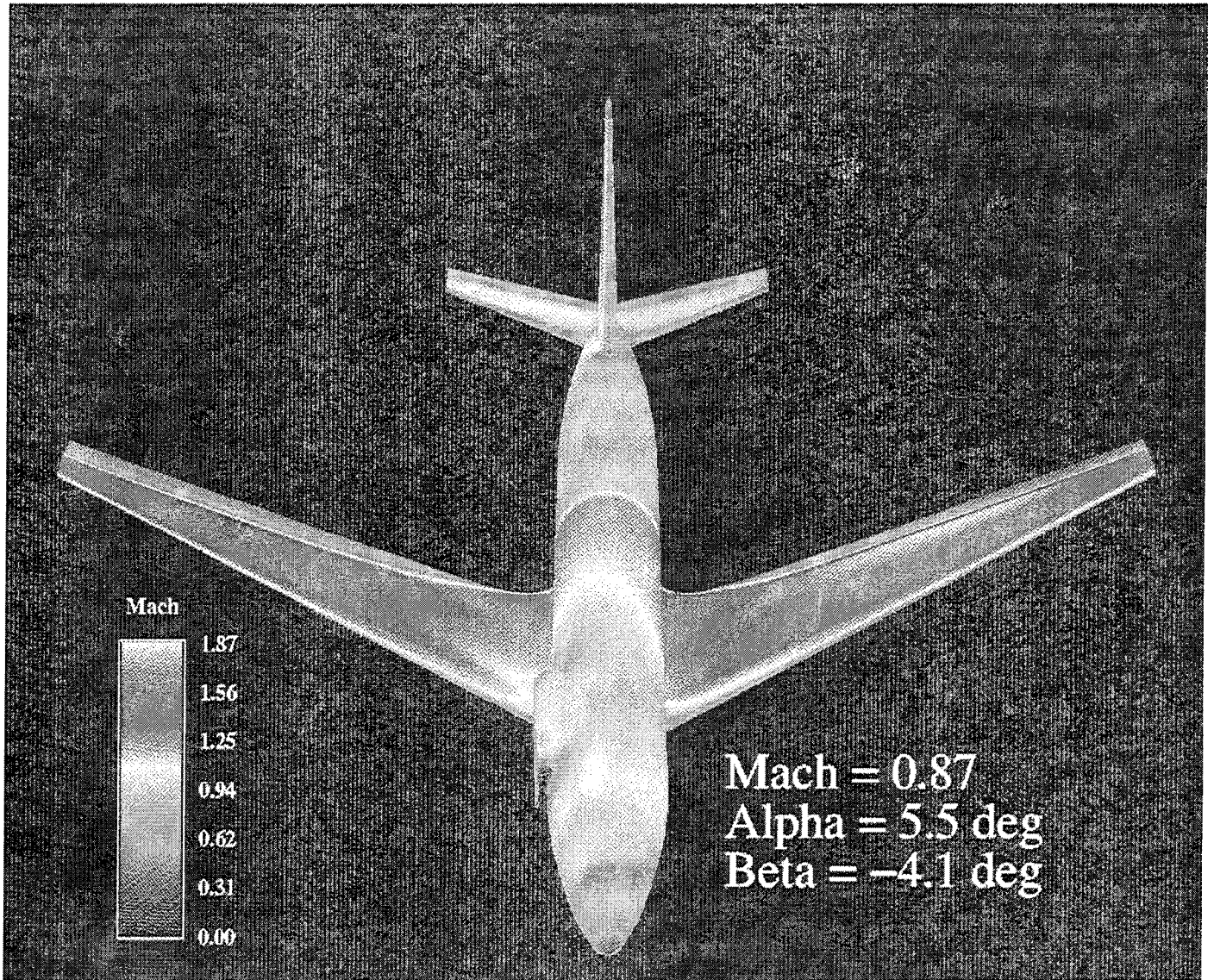


Figure 14: Dirty C-135 (Mach Contours, top view)
(*Mach*=0.87, *Alpha*=5.5 deg, *Beta*=-4.1 deg)

6.4.2 Mach=0.87, Alpha=1.4 deg, Beta=-4.1 deg

The next set of three plots, Figures 15-17, show the clean and dirty Mach=0.87, Alpha=1.4 degrees, Beta=-4.1 degrees cases. Comparison of Figures 15 and 16 illustrates the differences between the clean and dirty cases from a view above and forward of the aircraft.

The windward side of the aircraft and regions aft of the trailing edges experience negligible differences between the clean and dirty cases. The effect of the pylon in the dirty case includes increased Mach numbers on the top of the fuselage and reduced Mach numbers at the root of the leeward wing.

Figure 17 shows the side view where the top of the plate is visible. This view shows that the flow over the optical window region has a uniform Mach number. Additionally a weak shock is seen where the plate droops and a stagnation region is located aft of the plate's trailing edge.

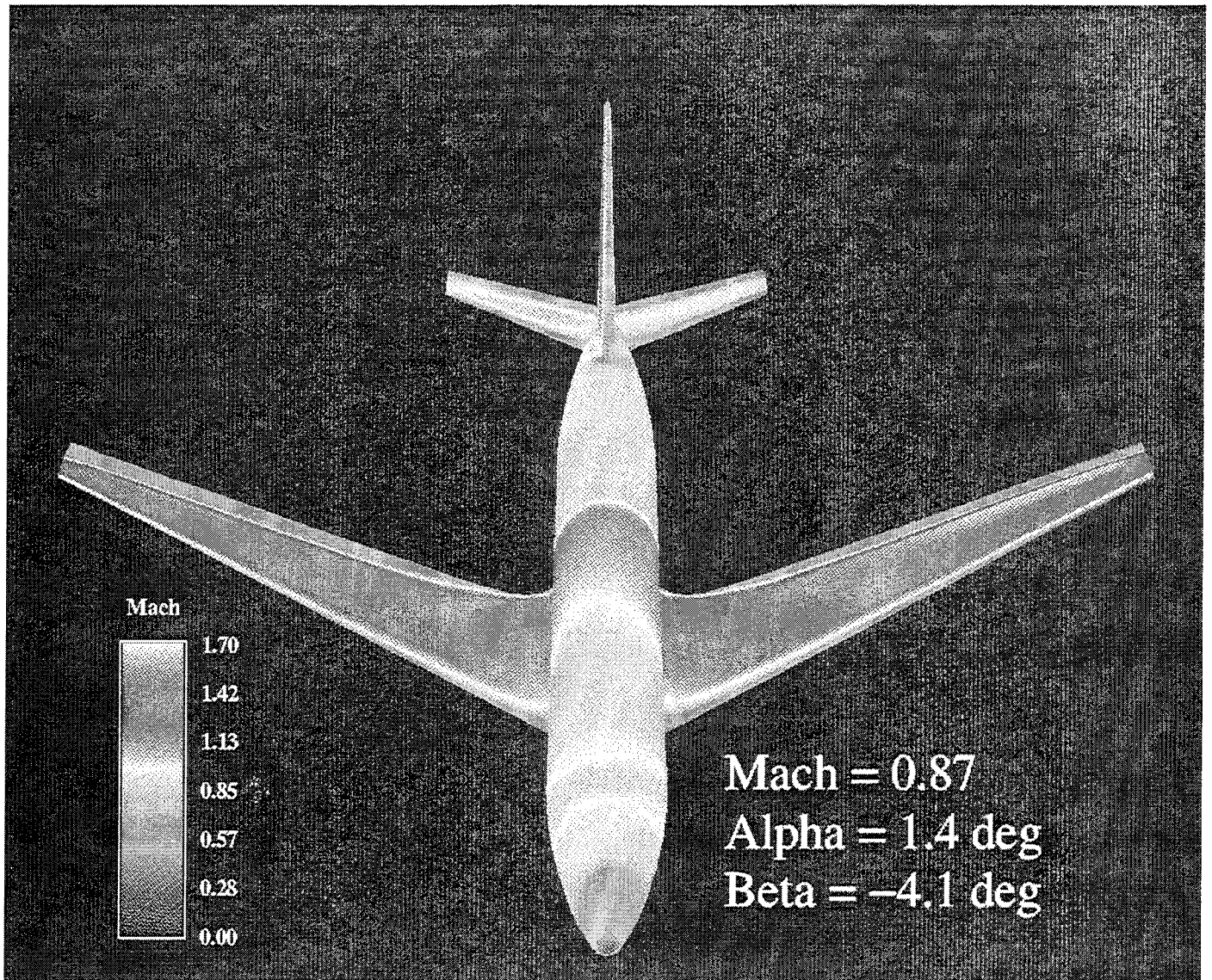


Figure 15: Clean C-135 (Mach Contours, top view)

(Mach=0.87, Alpha=1.4 deg, Beta=-4.1 deg)

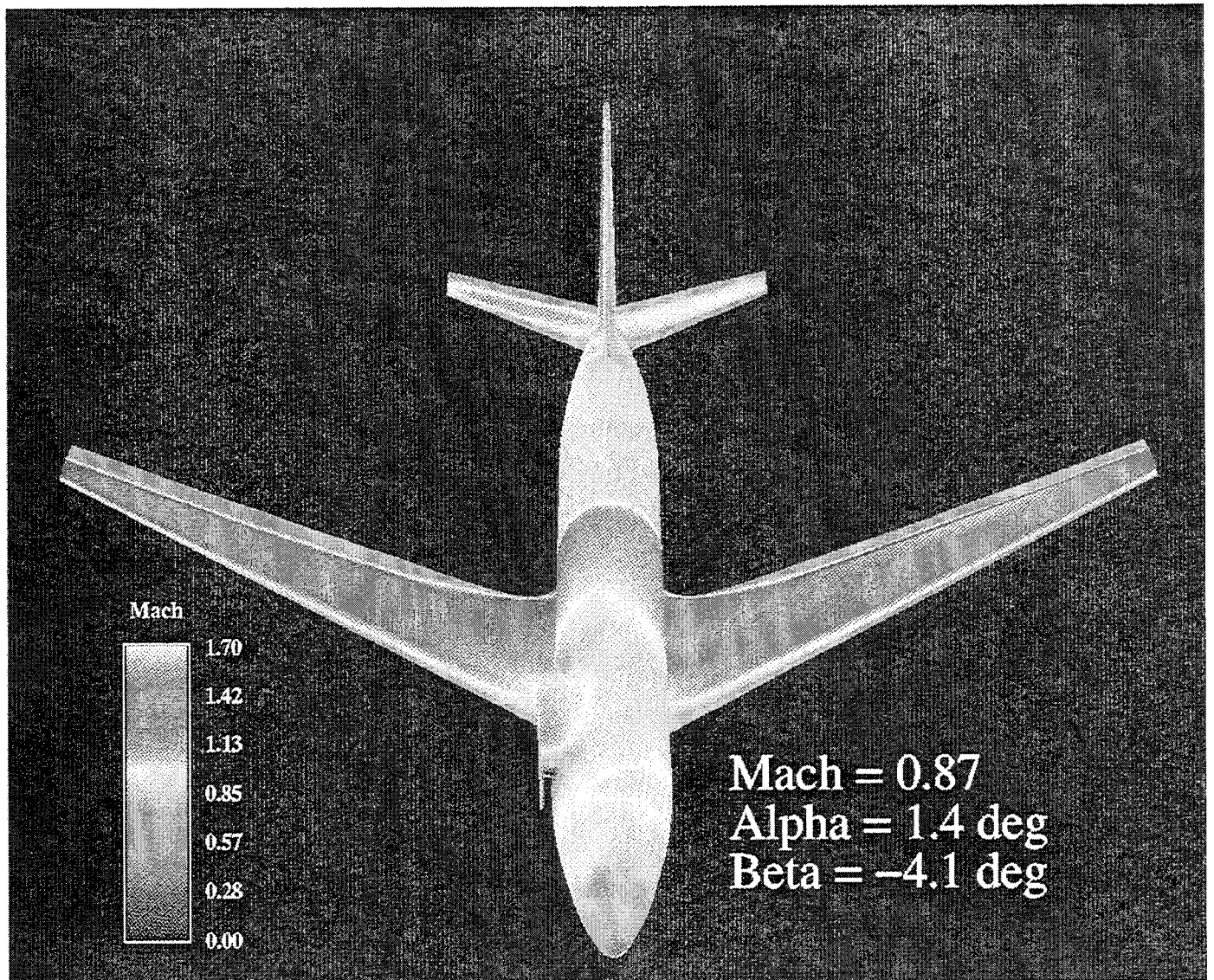


Figure 16: Dirty C-135 (Mach Contours, top view)
(Mach=0.87, Alpha=1.4 deg, Beta=-4.1 deg)

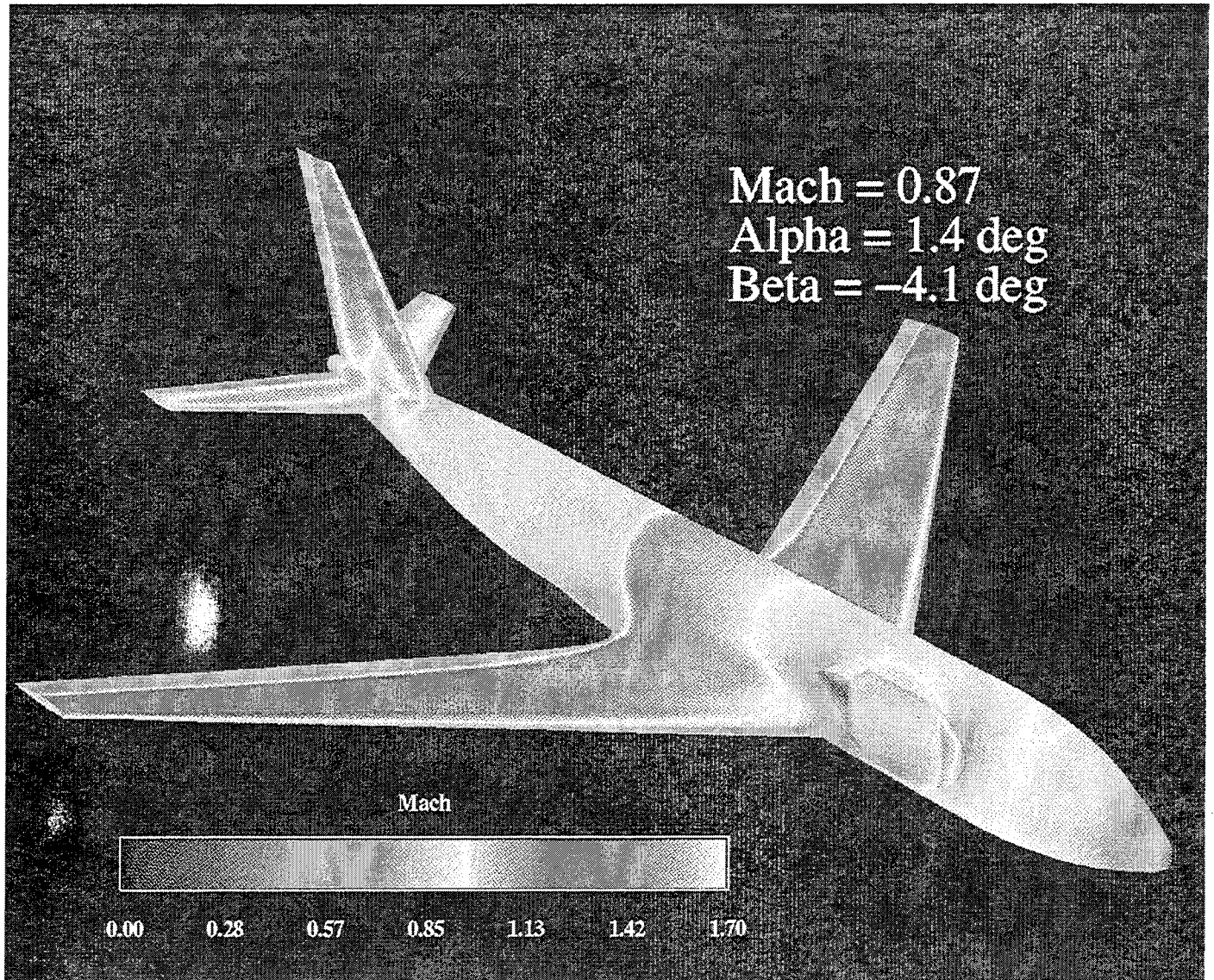


Figure 17: Dirty C-135 (Mach Contours)

(Mach=0.87, Alpha=1.4 deg, Beta=-4.1 deg)

6.4.3 Mach=0.36, Alpha=14.6 deg, Beta=-14.5 deg

In the next set of three plots, Figures 18-20, show the clean and dirty Mach=0.36, Alpha=14.6 degrees, Beta=-14.5 degrees cases. Comparisons of Figures 18 and 19 illustrate the differences between the clean and dirty cases from a view above and forward of the aircraft.

The windward side of the aircraft and regions aft of the trailing edges experience negligible differences between the clean and dirty cases. The effect of the pylon in the dirty case is somewhat localized in the fuselage region but extends out the leeward wing, as previously seen with the particle traces.

Figure 20 shows the side view where the top of the plate is visible. This view shows that the flow over the optical window region has a slightly nonuniform Mach number distribution. One must remember when viewing these data that optical measurements will not be taken during this severe flight condition.

Results from this flight condition should be viewed with a critical eye due to the severity of the flight conditions and the amount of separated flow that is produced.

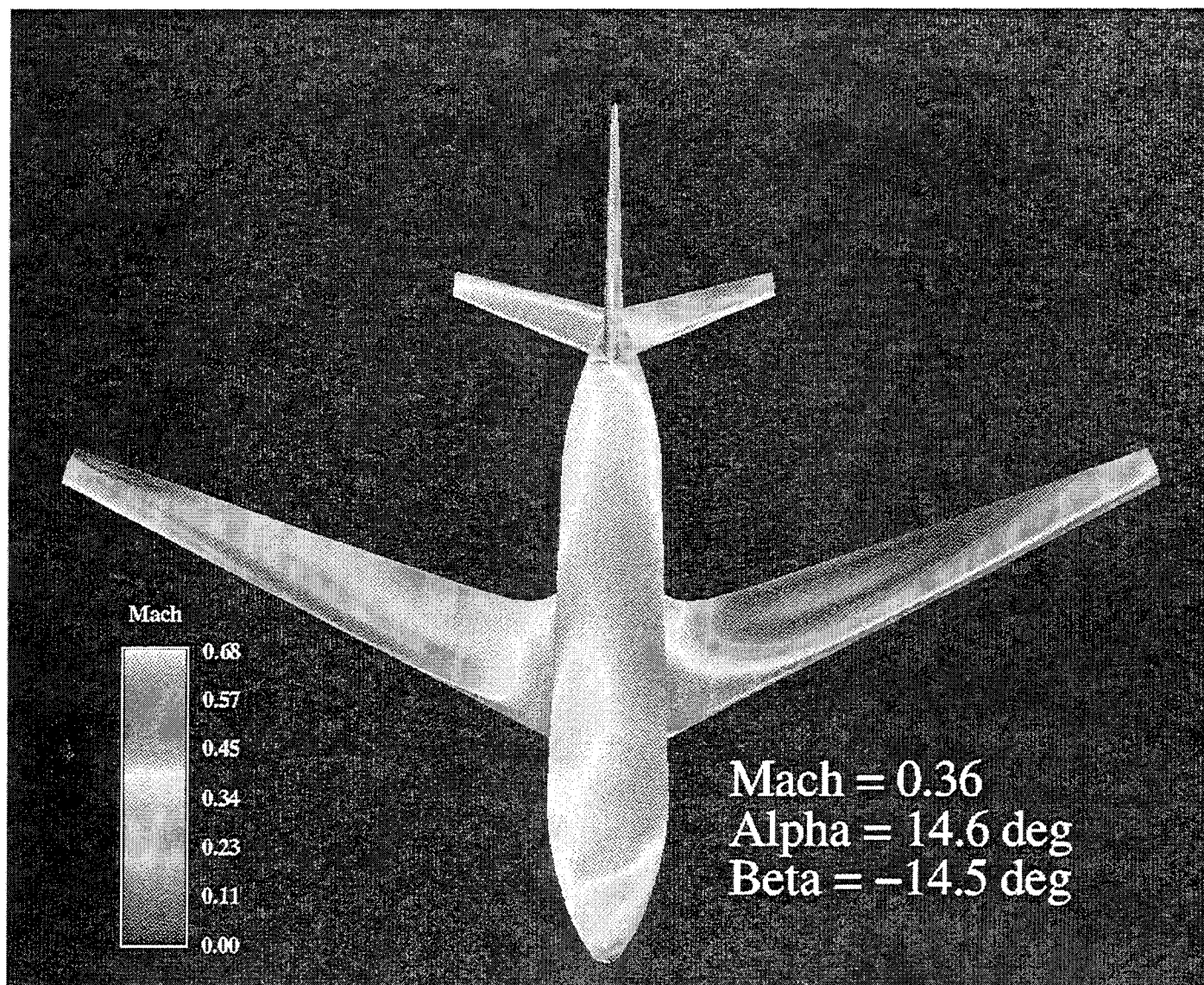


Figure 18: Clean C-135 (Mach Contours, top view)
(*Mach=0.36, Alpha=14.6 deg, Beta=-14.5 deg*)

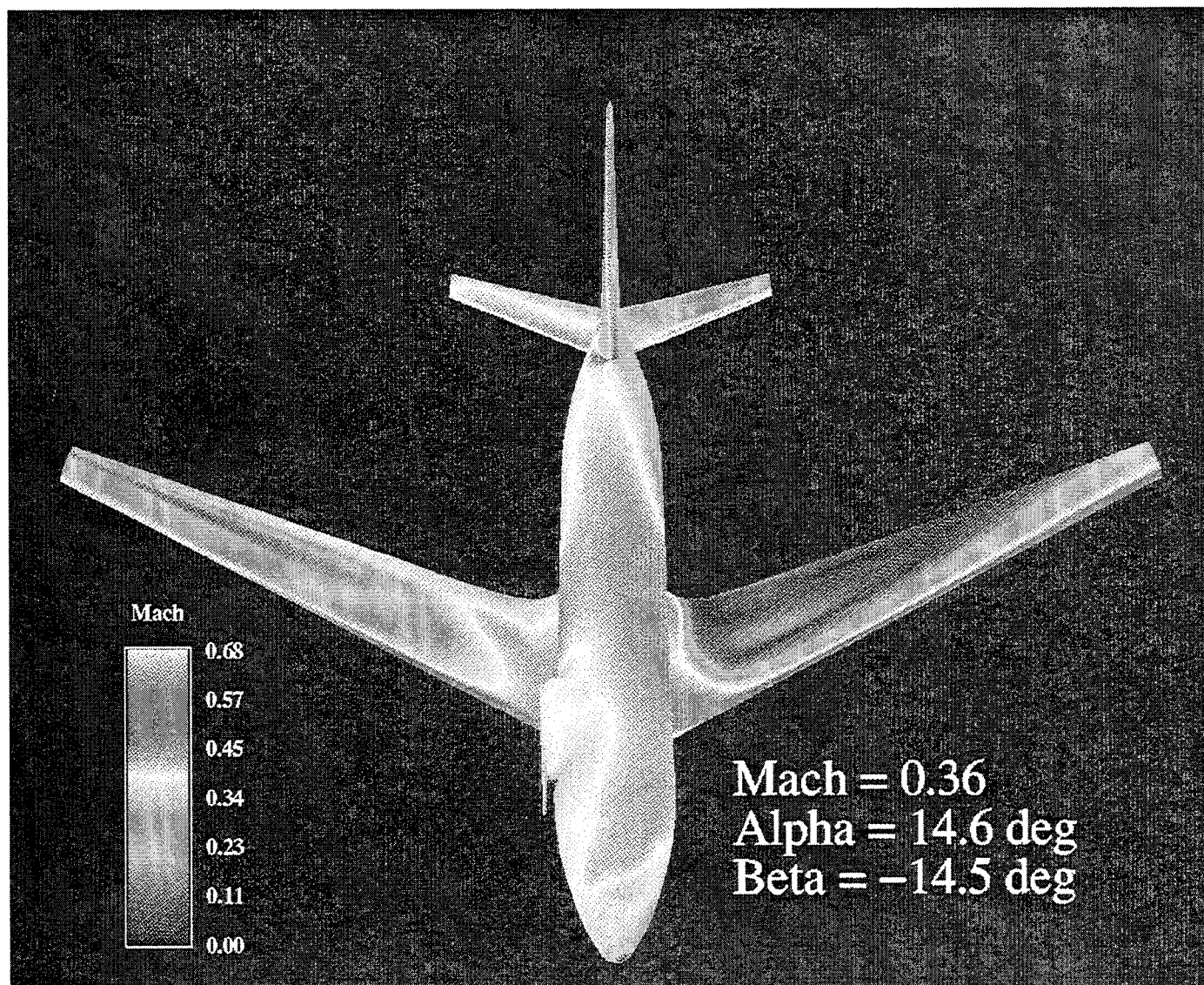


Figure 19: Dirty C-135 (Mach Contours, top view)
(Mach=0.36, Alpha=14.6 deg, Beta=-14.5 deg)

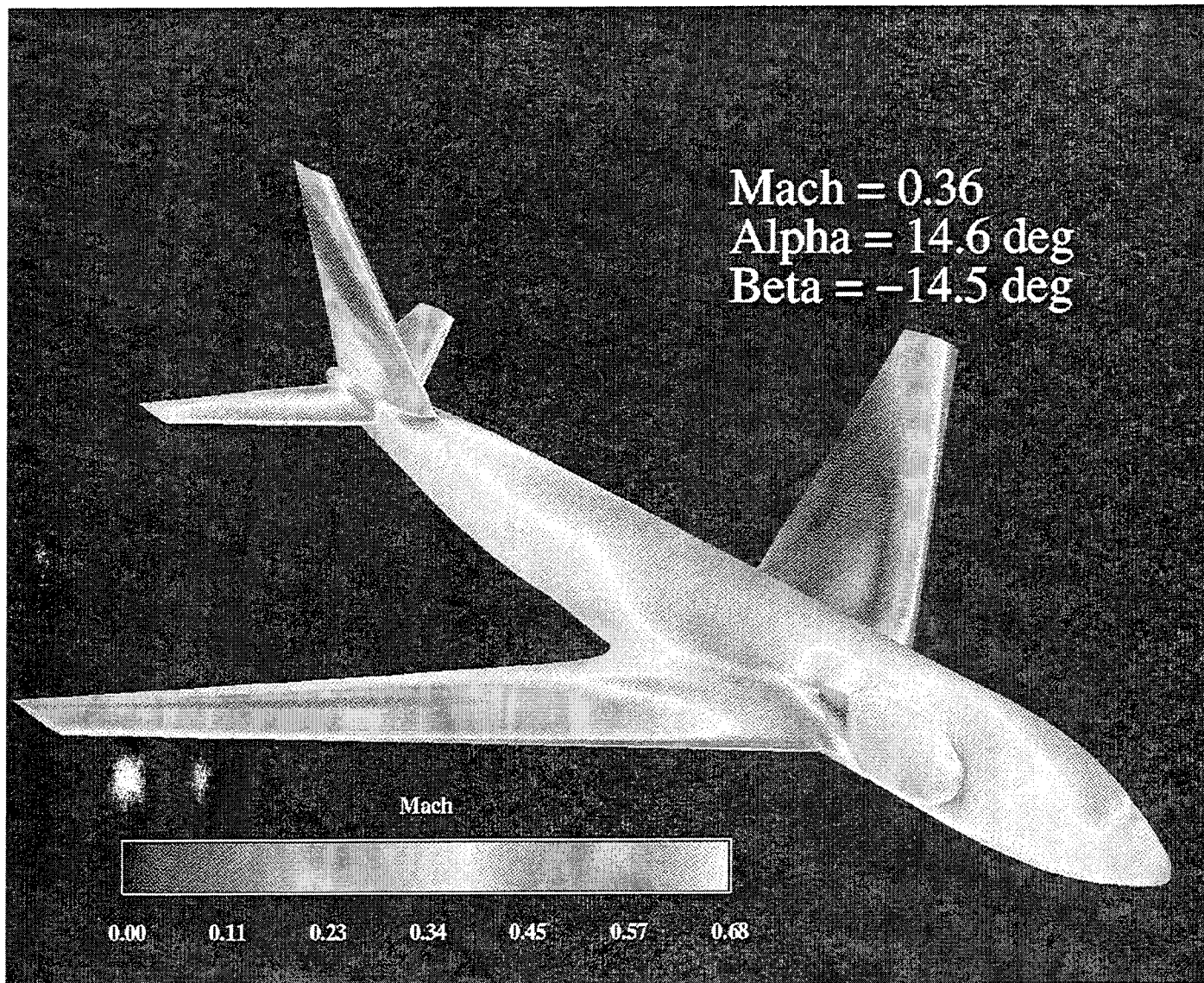


Figure 20: Dirty C-135 (Mach Contours)

(Mach=0.36, Alpha=14.6 deg, Beta=-14.5 deg)

6.4.4 Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg

In the next set of three plots, Figures 21-23, show the clean and dirty Mach=0.76, Alpha=3.0 degrees, Beta=0.0 degrees cases. Comparisons Figures 21 and 22 illustrate the differences between the clean and dirty cases from a view above and forward of the aircraft.

The windward side of the aircraft and regions aft of the trailing edges experience negligible differences between the clean and dirty cases. The effect of the pylon in the dirty case includes, increased Mach numbers on the top of the fuselage, reduced Mach numbers at the root of the wing (pylon side), and localized stagnations at the front and aft of the pylon.

Figure 23 shows the side view where the top of the plate is visible. Like previous plots, this view shows that the flow over the optical window region has a uniform Mach number distribution, the flow over the plate does not reach Mach 1, and that a stagnation aft of the plate is produced. (Figure 2 shows the position of the optical window in the plate.)

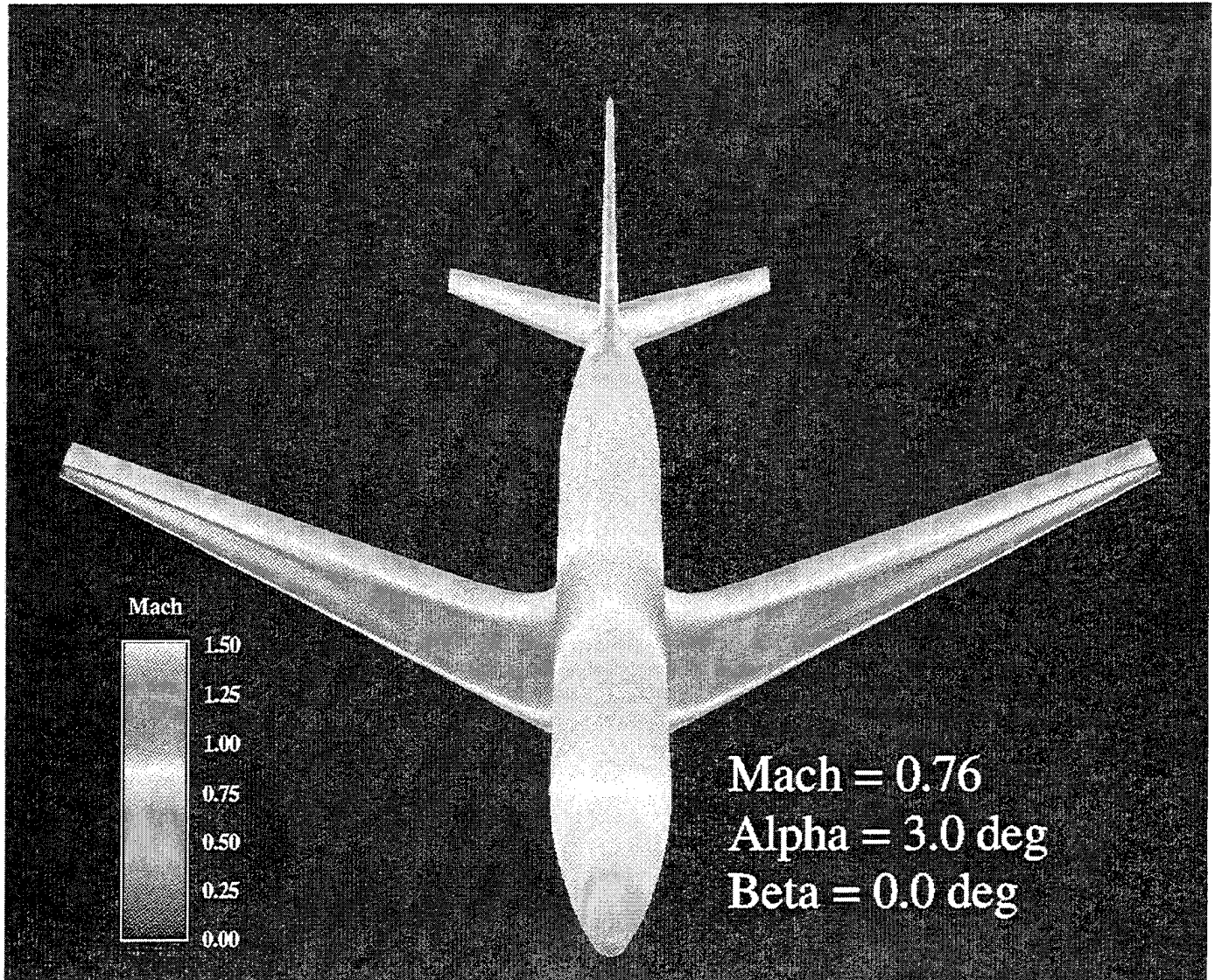


Figure 21: Clean C-135 (Mach Contours, top view)
(*Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg*)

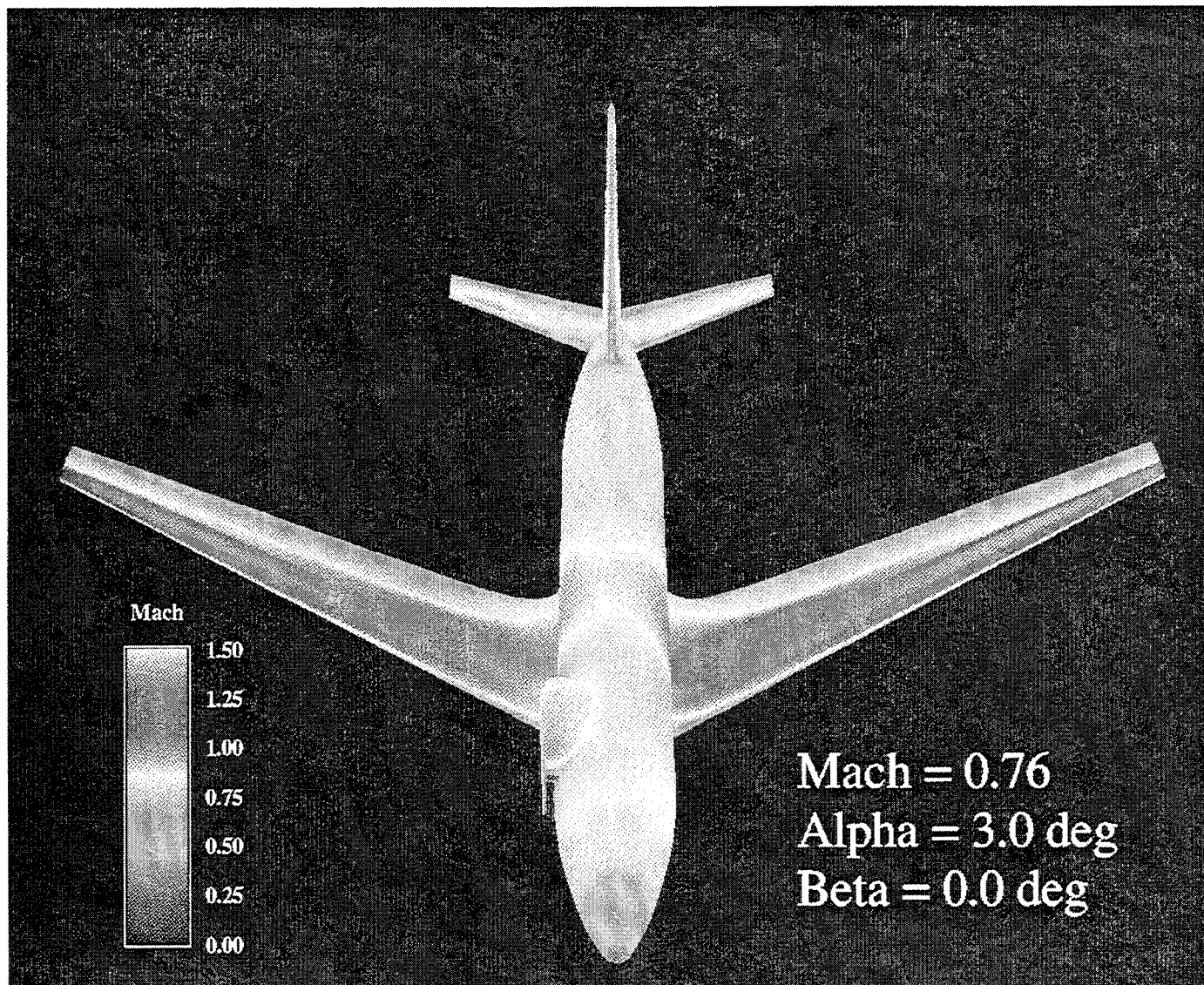


Figure 22: Dirty C-135 (Mach Contours, top view)
(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

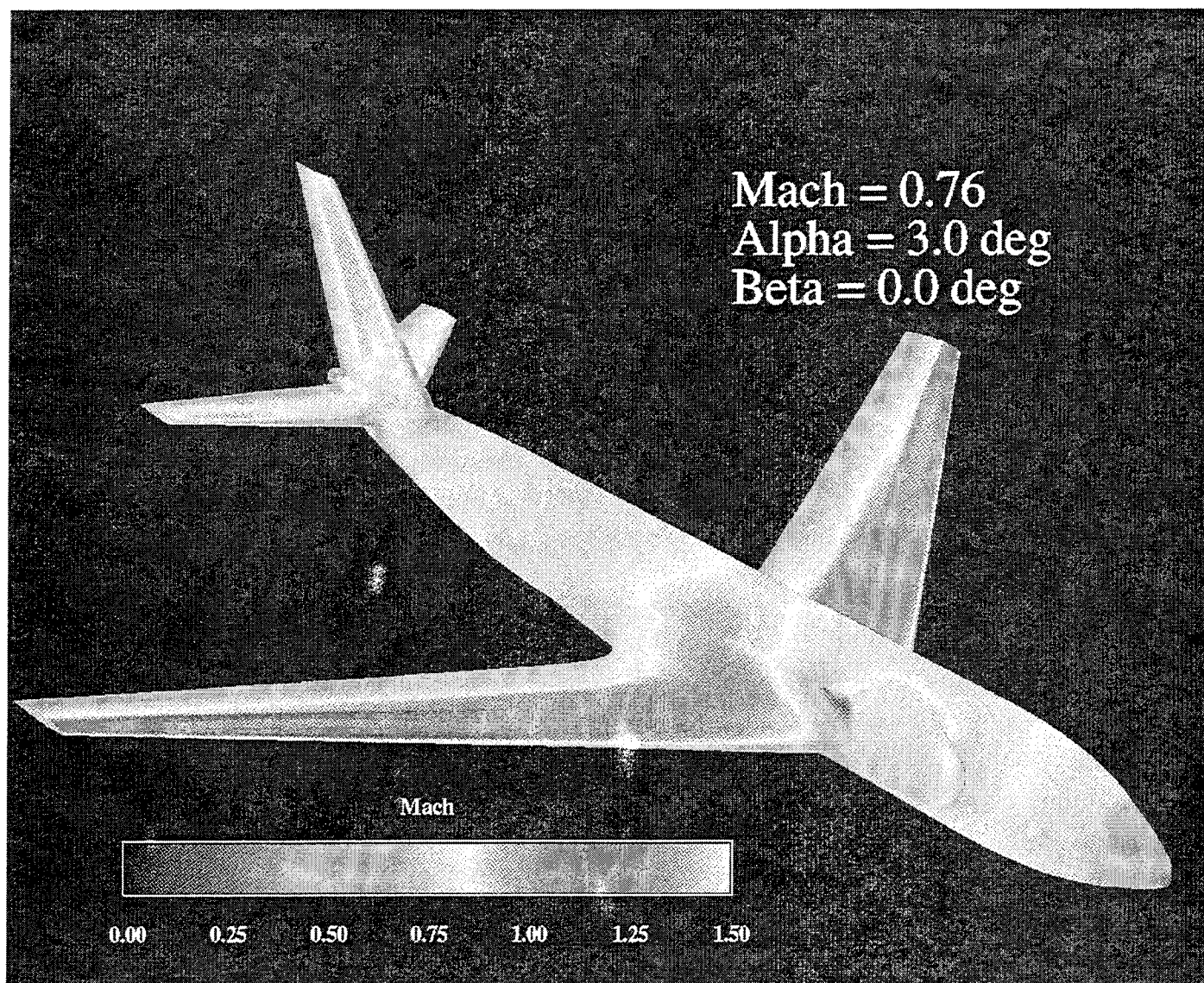


Figure 23: Dirty C-135 (Mach Contours)

(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

6.5 Pressure Coefficient Contour Plots on the Plate/Pylon

The pressure coefficient (C_p) contour plots on the plate/pylon shown in Figures 25 - 27 illustrate the aerodynamic loading. The plot for one case ($Mach=0.87$, $\alpha=1.4$, $\beta=-4.1$) was omitted due to its similarity to the other Mach 0.87 case. Small differences do occur, but the tabulated C_p values offer a better comparison tool than the visual plot. Note: the C_p range differs on each plot to maximize the flow differentiation for each case.

For each of the three C_p plots, the plate/pylon assembly is shown from four different view points without the aircraft. Figure 24 is included below to clarify the orientation of each view.

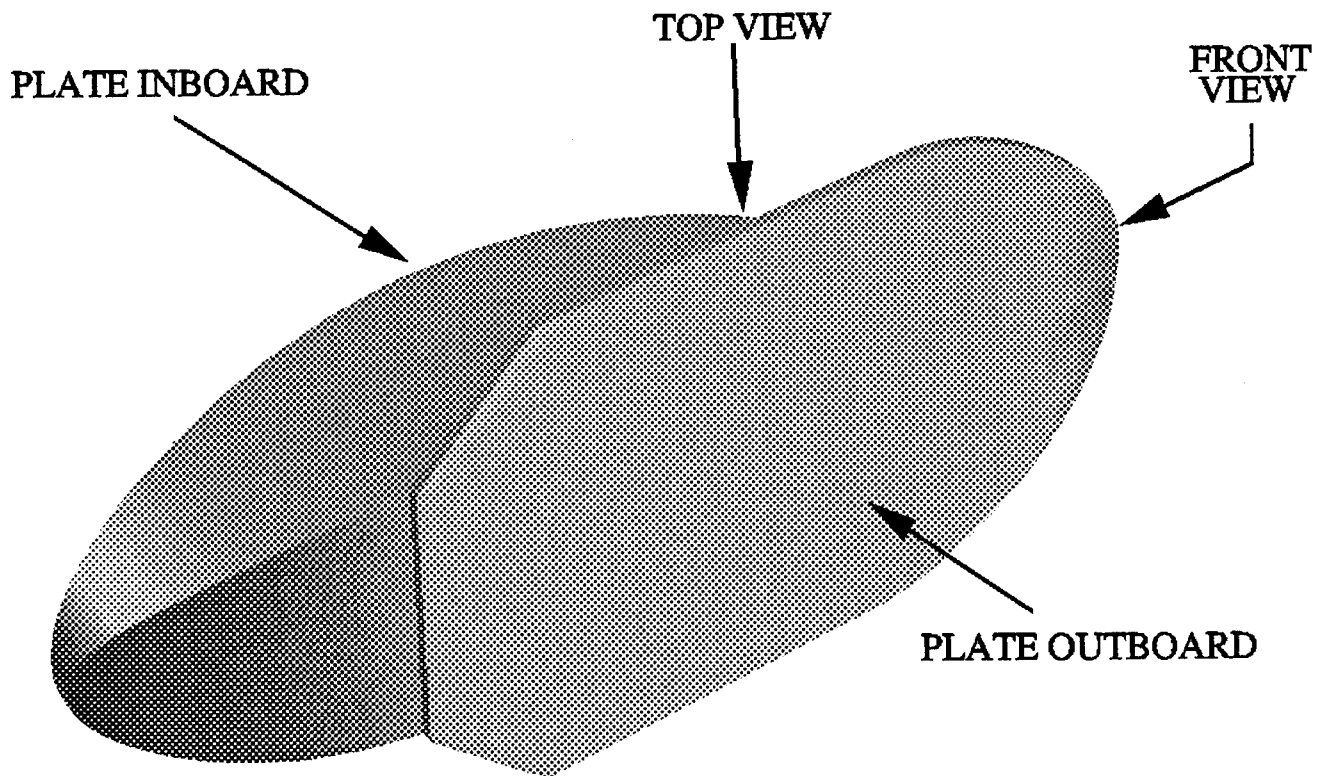


Figure 24: Splitter Plate and Pylon View Orientation

Figure 25 shows the splitter plate and pylon configuration for the Mach=0.87, Alpha=5.5 degrees, Beta=-4.1 degrees case. Flow stagnations are seen to occur on the leading edge of the plate and at the front and back of the elliptical pylon. Flow accelerations occur along the plate droop region and on the top and bottom of the pylon. These accelerated regions, indicated by the lower (more negative) C_p s, are low pressure regions producing lift. A side force is produced by the combined low pressure on the outboard side of the plate and the high pressure on the inboard side. Due to the droop of the plate leading edge, the forces acting on the plate provide loads in the positive y and negative x axis directions with respect to the geometric coordinate system. As expected with an elliptical wing at angle of attack, the pressure distribution on the pylon indicates that lift is produced.

Figure 26 shows the Mach=0.36, Alpha=14.6 degrees, Beta=-14.5 degrees case. With the severity of the flight conditions, an unusual stagnation region is produced on the inboard side of the plate creating a fairly strong side force in the positive y-direction. Surprisingly, the flow on the outboard side of the plate does not appear to be separated and the distribution is uniform in the region of interest. Like the previous case the pylon acts as a lifting body at these flow conditions. It is expected that some separation would occur at this flight condition but the inviscid flow solver was unable to predict it.

Figure 27 shows the Mach=0.76, Alpha=3.0 degrees, Beta=0.0 degrees case. The C_p distribution shown in Figure 26 is very similar to the distribution shown in Figure 24. The C_p ranges of the two cases are different, however, the previous discussion holds for this case as well.

Splitter Plate and Pylon

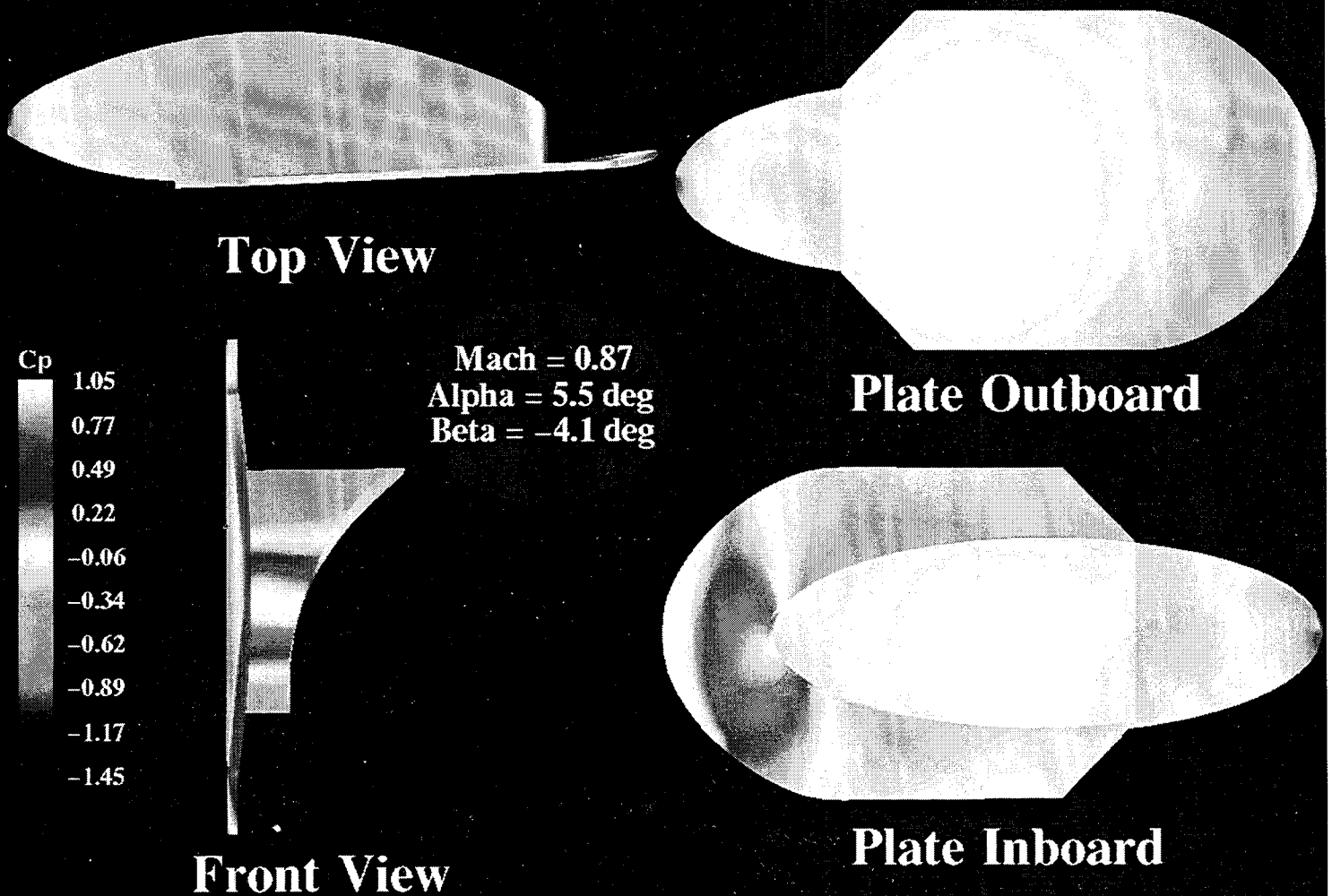


Figure 25: Splitter Plate and Pylon (Cp Contours)

(Mach=0.87, Alpha=5.5 deg, Beta=-4.1 deg)

Splitter Plate and Pylon

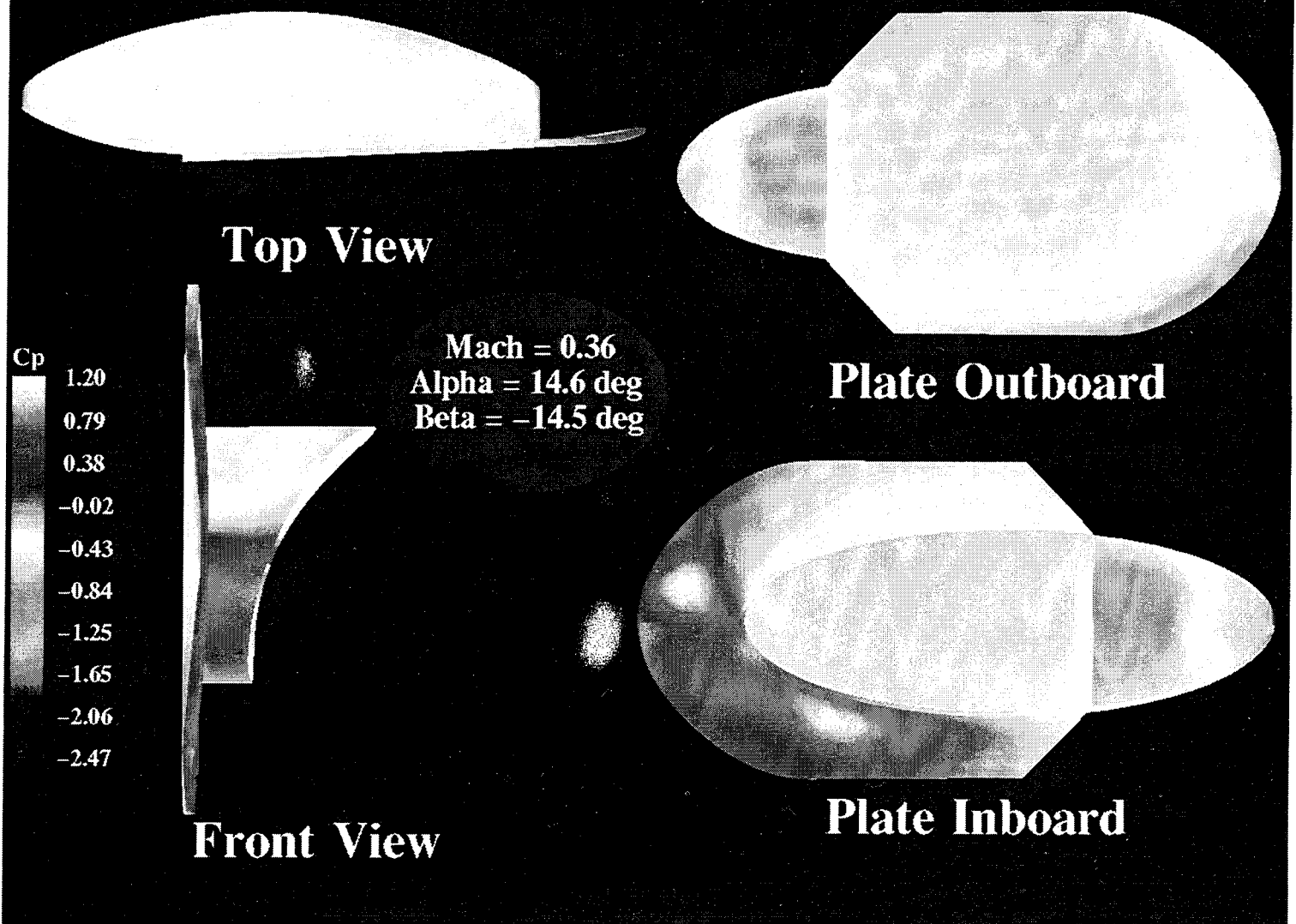


Figure 26: Splitter Plate and Pylon (Cp Contours)

(Mach=0.36, Alpha=14.6 deg, Beta=-14.5 deg)

Splitter Plate and Pylon

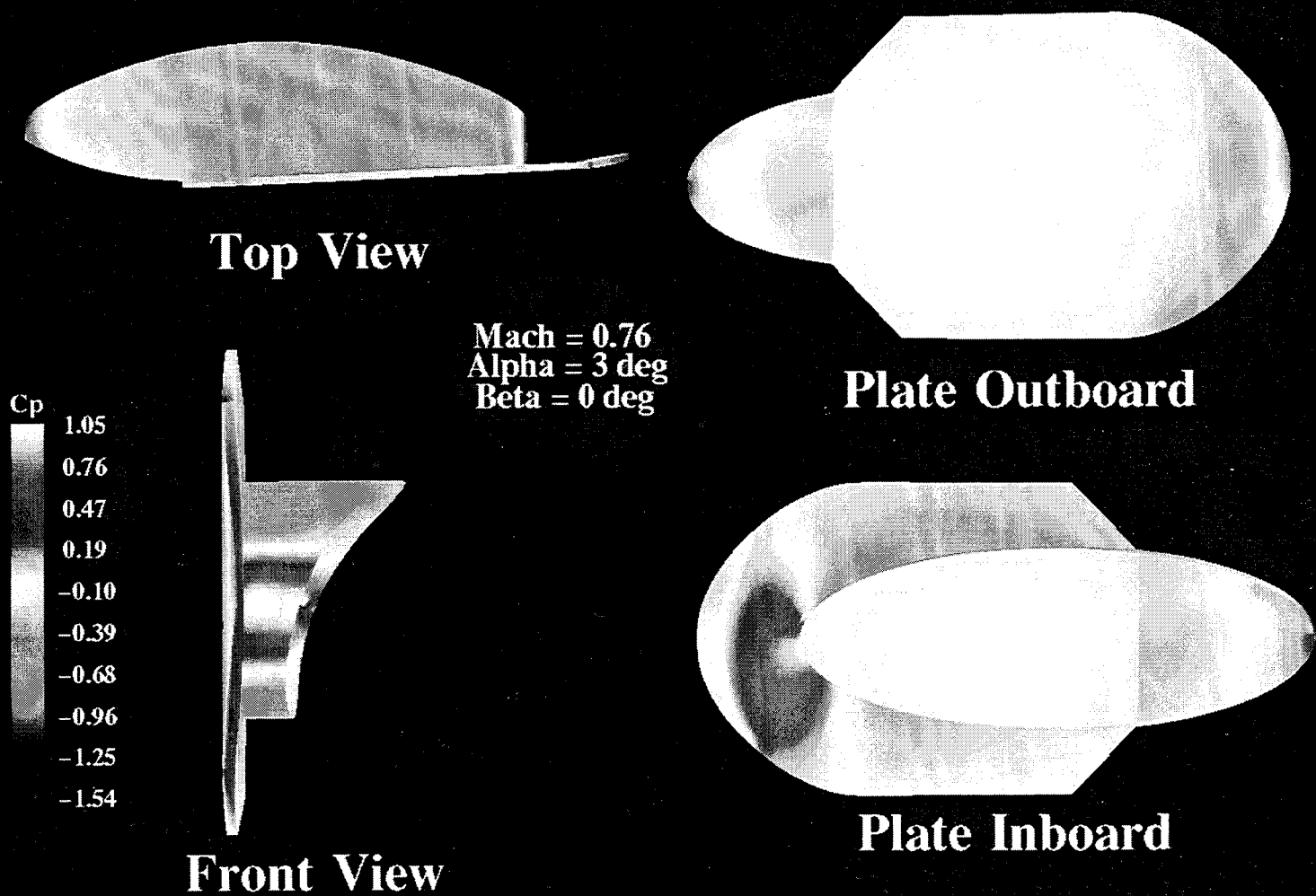


Figure 27: Splitter Plate and Pylon (C_p Contours)

(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

6.6 PLOT3D Solution Files

Solution files for all nine cases are available in PLOT3D format. These files can be used to extract additional information of interest. A picture only provides a snapshot of the results, while interactive viewing of the data provides a more complete insight into the results. (Interested parties should contact WL/FIMC for access to the solution files.)

6.7 Tabulated Cp Data on the Plate/Pylon

Tabulated Cp data on the plate/pylon for the four dirty cases is provided in the Appendix. This data was generated for conversion into loads data by the 4950TW. The table provides x, y, and z locations for each discrete panel center on the plate/pylon surfaces, the area of each panel, the unit normal components of each panel and the Cp at the centroid of each panel for the four dirty cases.

6.8 Cp Contour Plots on Symmetry Plane

Figures 28-29 illustrate two Cp contour plots on the symmetry plane of the clean aircraft. This data was generated for comparison with published data on the C-135 aircraft [5].

Figure 28 shows a side view of the flow at the aircraft symmetry plane for the Mach=0.76, Alpha=3.0 degree case. Visible are the stagnations at the nose, the canopy and the leading edge of the vertical tail. Also visible are the low pressure regions produced by the flow accelerating over the canopy and wing.

Figure 29 is a close-up of the nose region of the same case. The Cp range has changed to accentuate the flow features present. This plot was generated to answer some questions about positioning probes.

Cp on Symmetry Plane

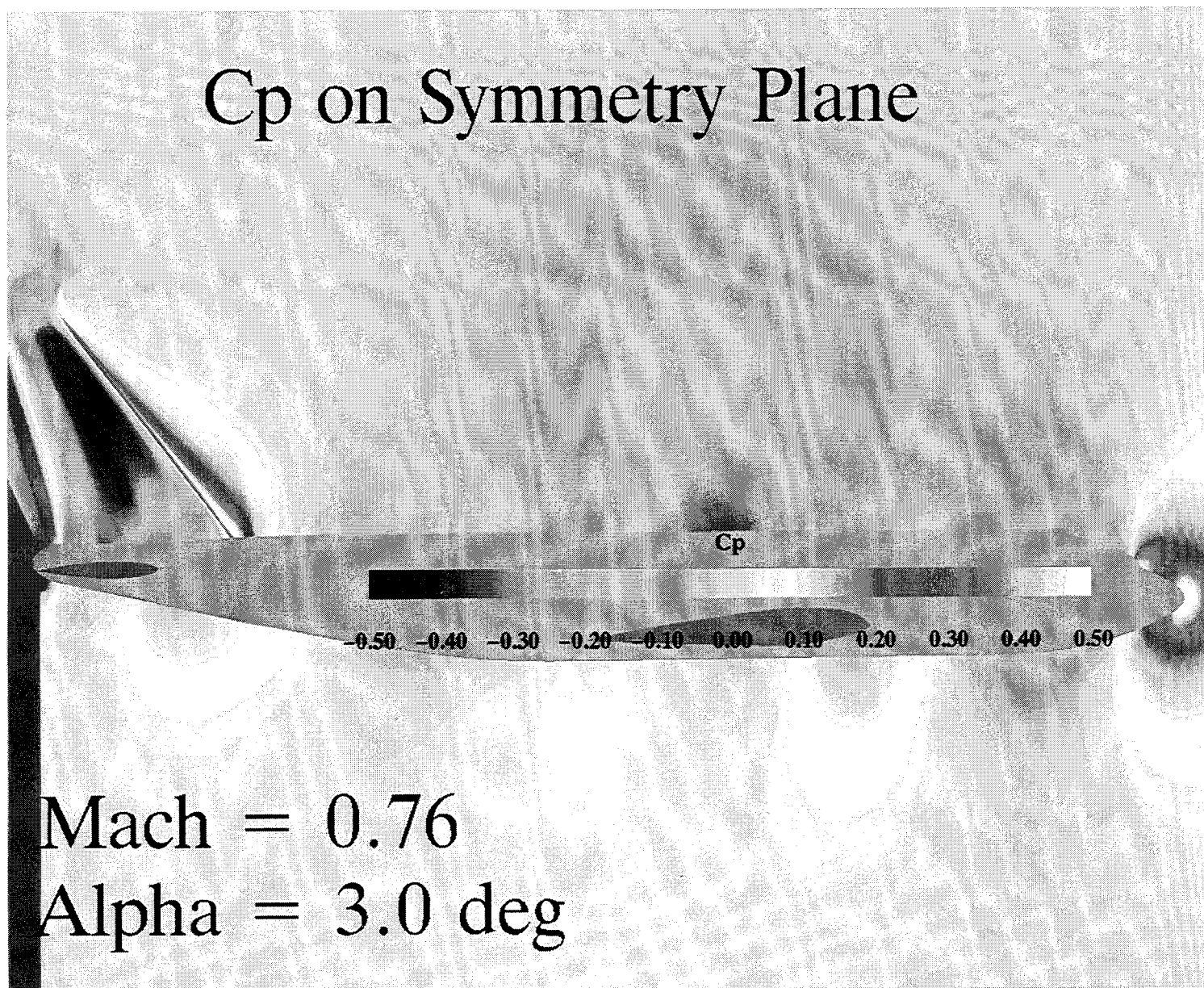


Figure 28: Cp on Symmetry Plane (Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

Cp on Symmetry Plane

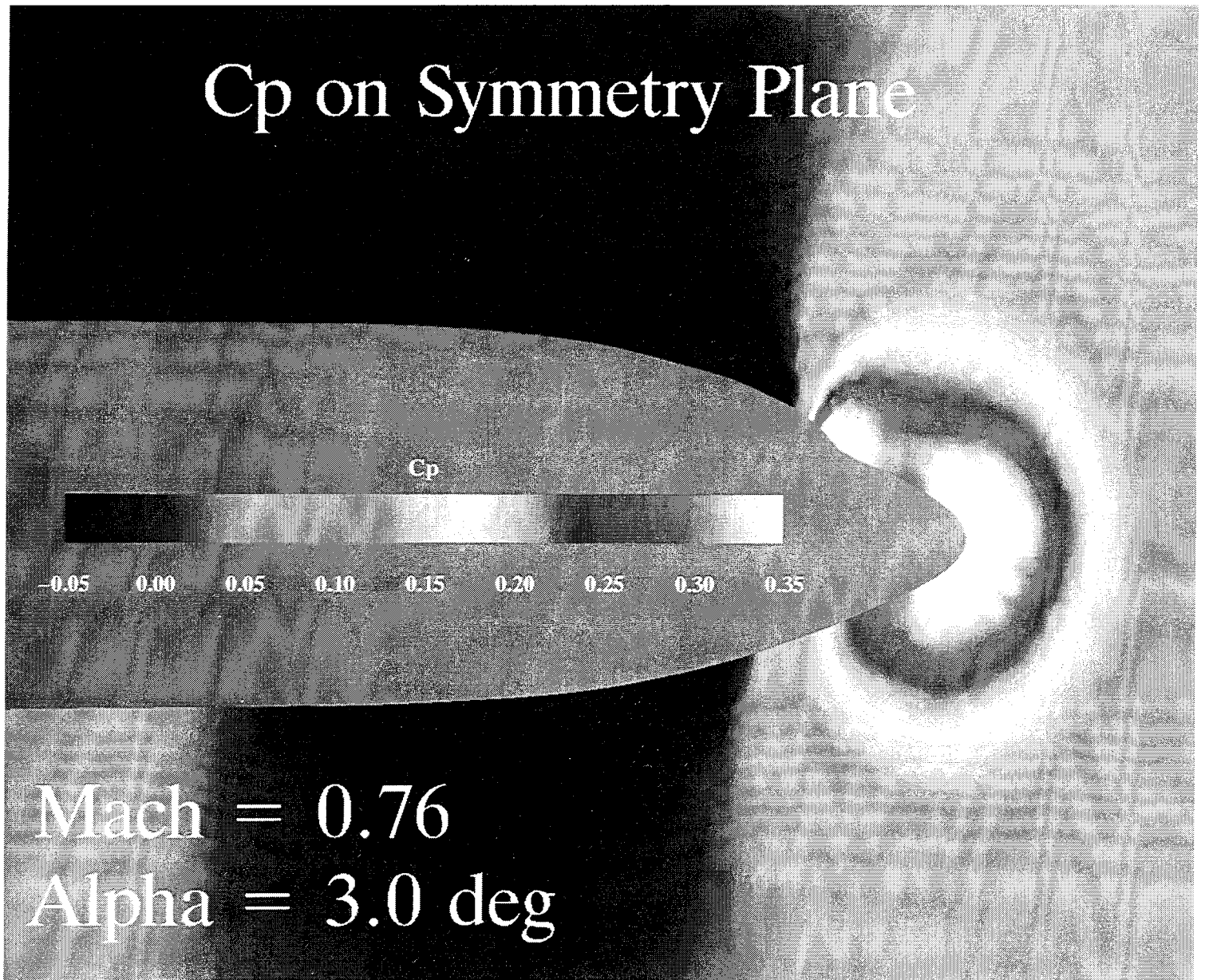


Figure 29: Cp on Symmetry Plane (Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

6.9 Fuselage X-station Plots

Plots of C_p vs. X-station and Mach number vs. X-station are provided along the clean configuration centerline in Figures 30 - 33. These plots provide data on both the top and bottom of the fuselage for the reader's convenience.

Cp vs. X-station (fuselage top centerline)

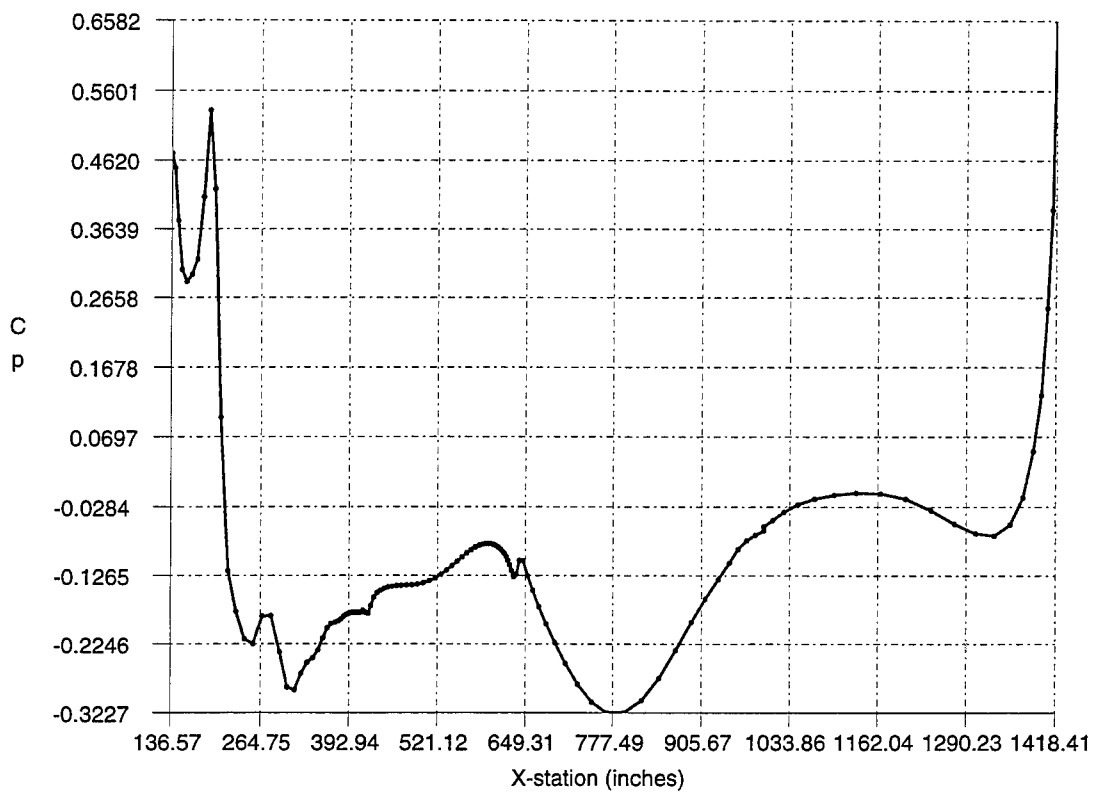


Figure 30: Cp vs. X-station (fuselage top centerline)
(*Mach*=0.76, *Alpha*=3.0 deg, *Beta*=0.0 deg)

Cp vs. X-station (fuselage bottom centerline)

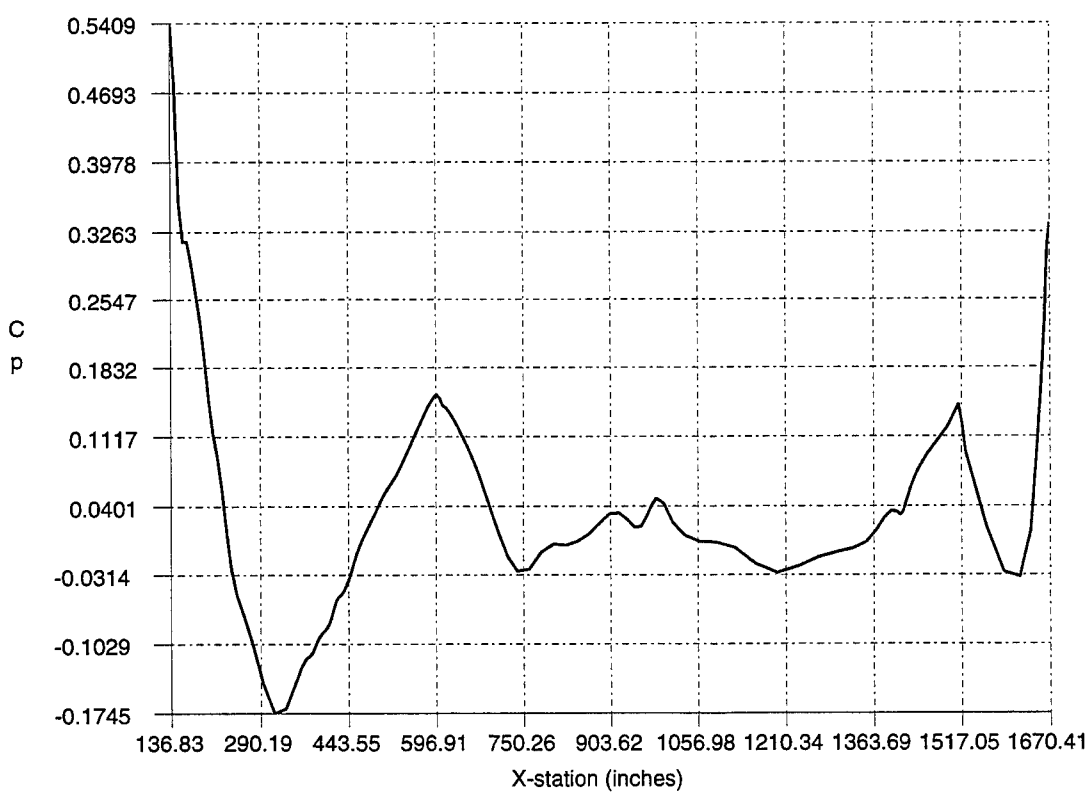


Figure 31: Cp vs. X-station (fuselage bottom centerline)

(*Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg*)

Mach Number vs. X-station (fuselage top centerline)

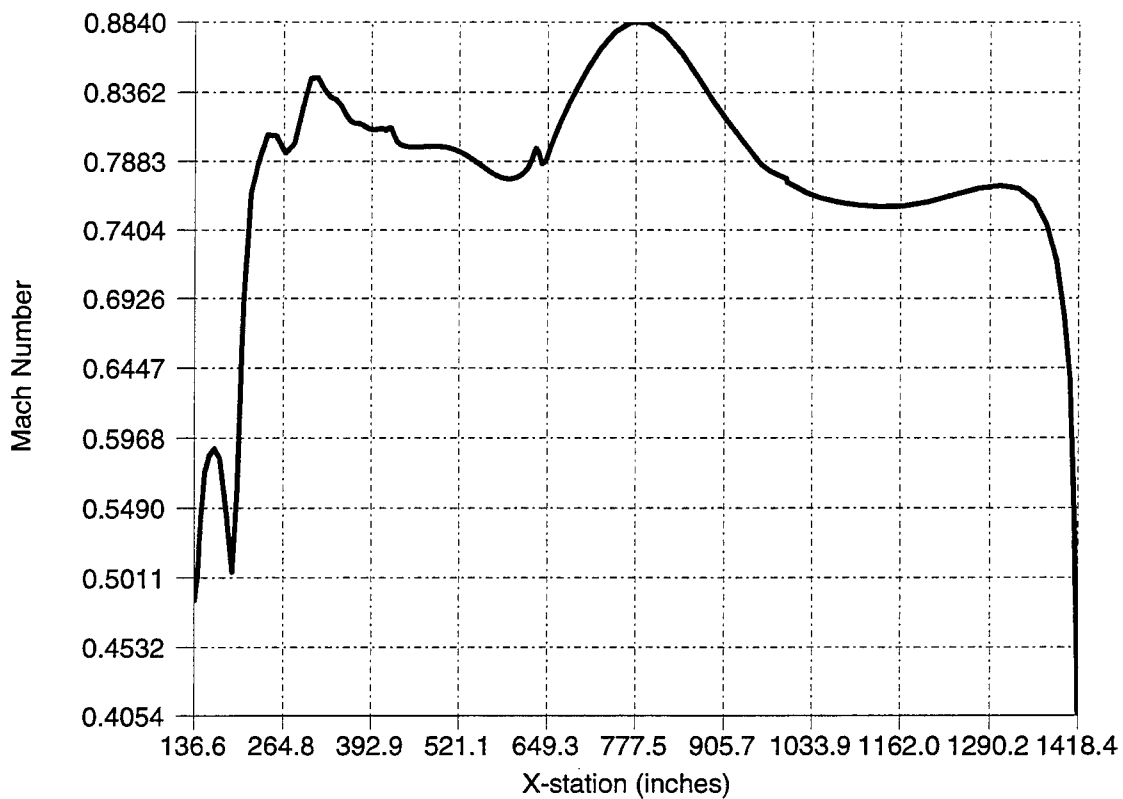


Figure 32: Mach Number vs. X-station (fuselage top centerline)

(*Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg*)

Mach Number vs. X-station (fuselage bottom centerline)

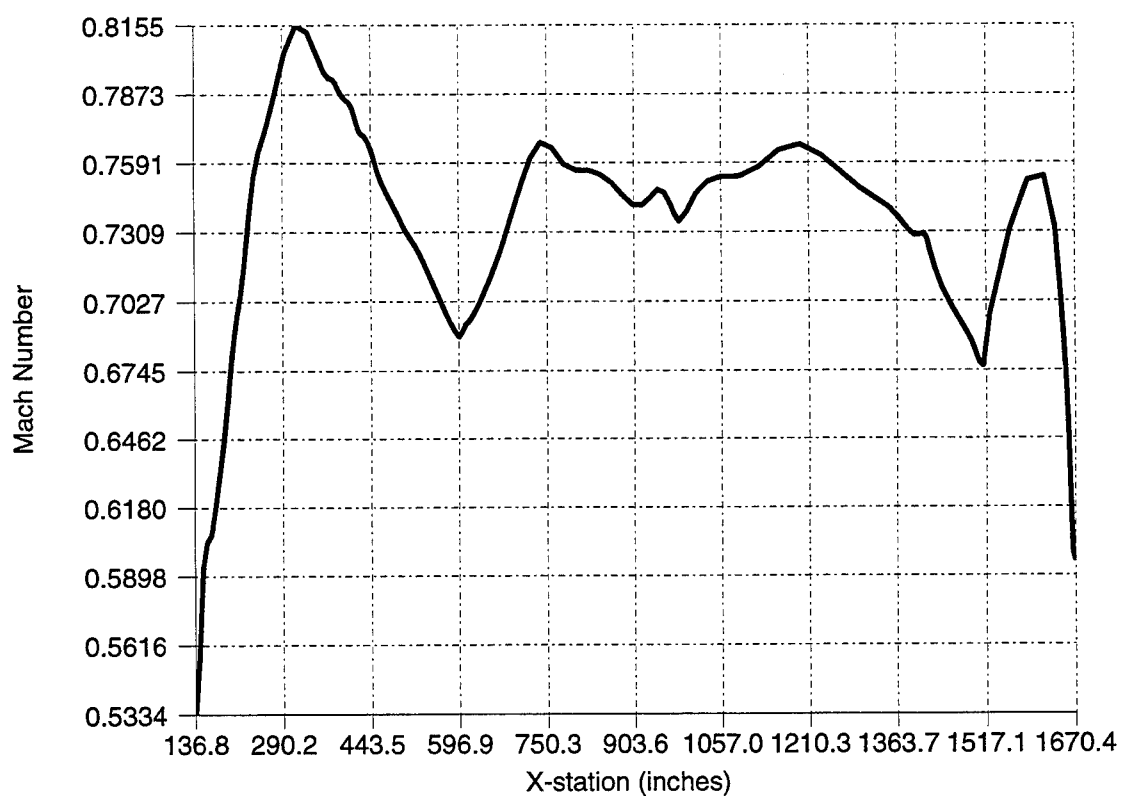


Figure 33: Mach Number vs. X-station (fuselage bottom centerline)

(*Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg*)

6.10 Plate X-station Plots

Plots of C_p vs. X-station and Mach number vs. X-station are provided along the centerline of the plate for the Mach = 0.76 case. Figures 34 and 35 show wind tunnel results and are provided for comparison.

Cp vs. X-station (plate top centerline)

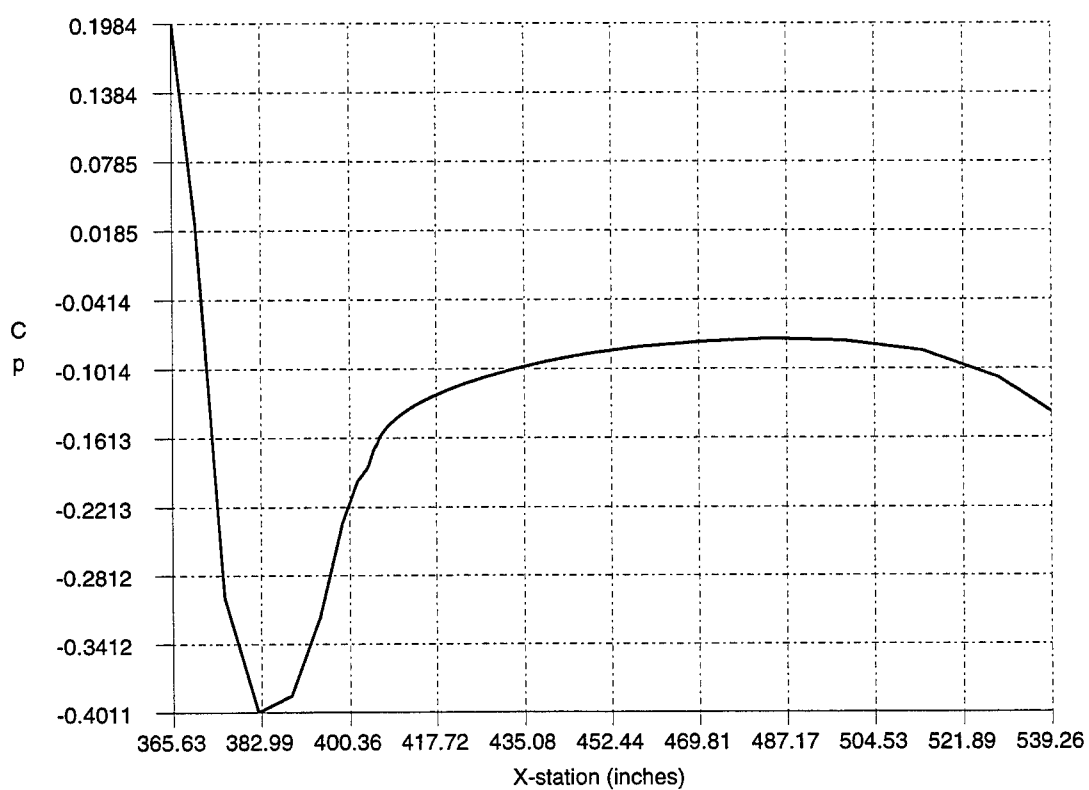


Figure 34: Cp vs. X-station (plate top centerline)

(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

Mach Number vs. X-station (plate top centerline)

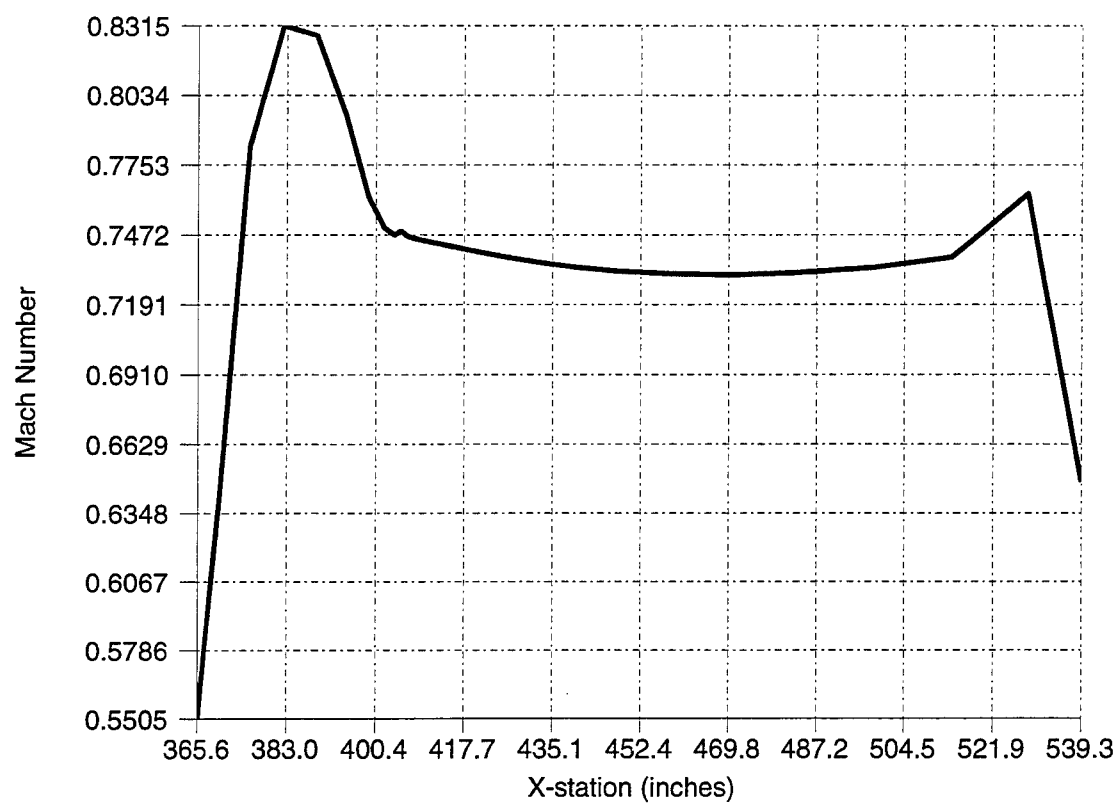


Figure 35: Mach Number vs. X-station (plate top centerline)
($Mach=0.76$, $Alpha=3.0$ deg, $Beta=0.0$ deg)

6.11 Particle Trace Plot

The streamlines for the Mach = 0.76 case are plotted to illustrate the particle paths near the nose of the C-135. The position listed on the plot in Figure 36 is of interest to the ABL SPO due to an instrument probe location.

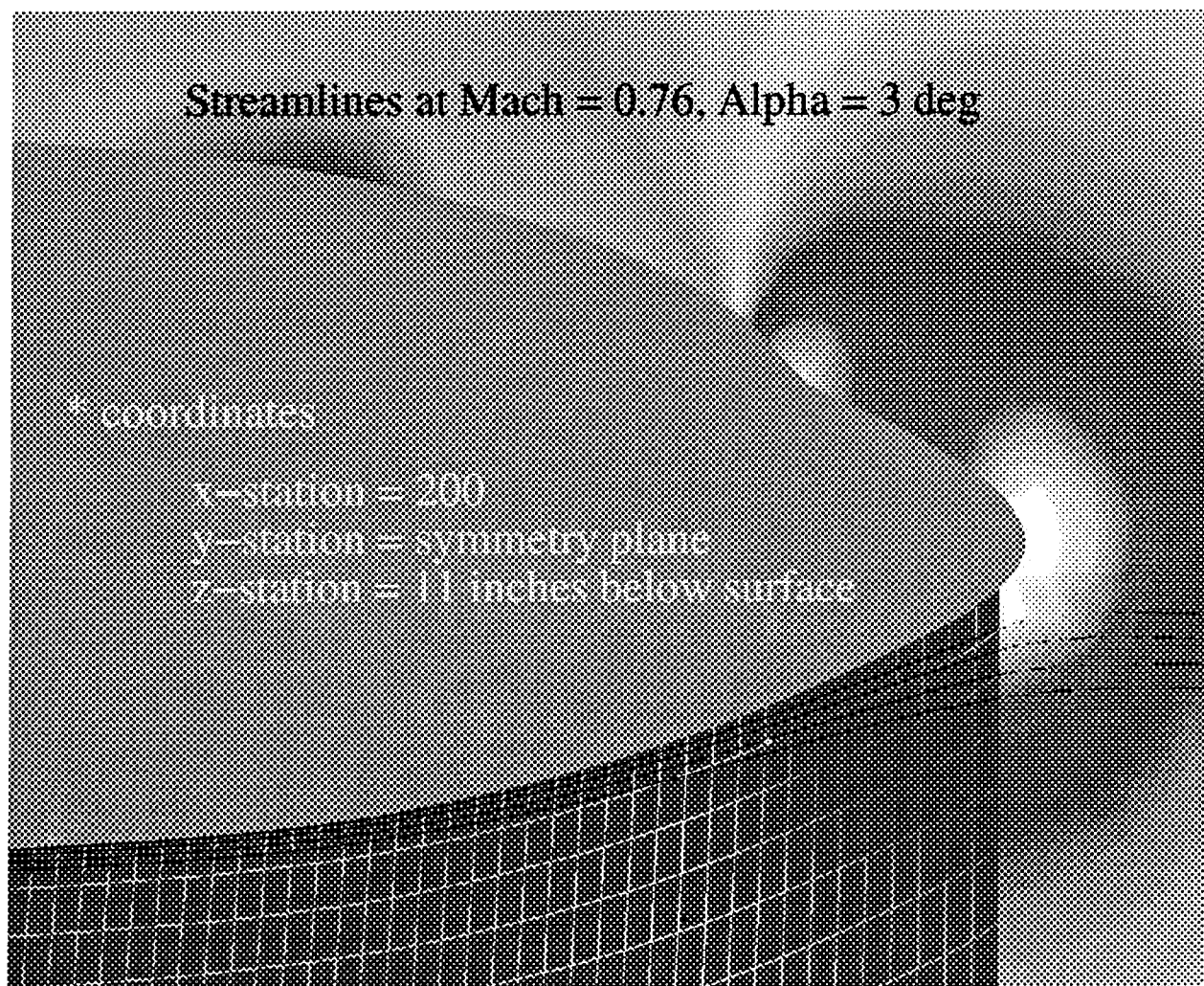


Figure 36: Streamlines under Aircraft Nose

(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

7. CFD Results Summary

The analysis provided here is very general in nature and is intended to bring several observations to light. More detailed analysis would require additional direction by the ABL SPO to focus on the specific requirements of the analysis. In general, gaining an understanding of specific areas of concern is best accomplished through discussion and interactive viewing of the data.

From the previously presented results, it is obvious that the plate/pylon have a significant effect on the air flow over the aircraft. The tabulated results show that the presence of the plate/pylon reduces the CL for moderate angles of attack. Although the pylon produces some lift, its influence on the right wing creates a net loss. In turn, the reduced lift on the right wing of the aircraft and the increased lift on the pylon appears to add to the nose up pitching moment, increases the negative rolling moment, and increases the positive yawing moment. The Mach number plots provided show reduced Mach number over the right wing and also shows that the right horizontal stabilizer is experiencing increased lift perhaps due to reduced downwash of the right wing. The flow over the plate and pylon can also be seen in the Mach number plots. These computations show that the pylon has significant transonic and low supersonic flow over most of its surface for cases where the freestream Mach number exceeds 0.76 and may experience mild shocks, especially at the 5.5 degree angle of attack case. The plate sees a local acceleration on the leading edge droop and of the plate and a weak shock forms for the higher freestream Mach number cases. This shock increases in strength as the Mach number increases but the location remains stationary. The flow over the pylon aft of the plate resembles a recirculation region. This flow region occurs only near the surface and may be due to the modelling of the plate thickness. The aft edge of the plate was purposefully left with a rearward facing step to fix the location of separation at the back of the plate.

Results from the Mach 0.36 case illustrate a more complex flow field, and should be viewed in a qualitative manner. The severe angles of attack and sideslip produce massive separation on the left wing and the right side of the vertical tail. This in turn produces a wake off of the plate which follows the trailing edge of the wing (see particle trace plot). Surprisingly, the flow on the outboard side of the plate does not appear to be separated. From the particle trace it appears that

the flow wraps around the nose and fuselage without separating. It is important to remember that optical data will not be taken at this flight condition. Therefore, interest in this condition is purely for control and structural purposes.

The C_p plots on the plate should be used in conjunction with the tabulated C_p data. The cases plotted all show a uniform C_p distribution in the region where the optical window is located. The tabulated C_p data was provided to the 4950 Test Wing to calculate loading on the plate and pylon. Results of their work are included in Section 9 of this report and in Reference 3.

8. Tunnel Test Comparison

In April 1993, a wind tunnel test was conducted on four plate/pylon configurations in the WL/FIME Trisonic Gasdynamics Facility. This facility is a closed circuit, variable density, continuous flow wind tunnel with an operating Mach number range of 0.23 to 3.0.

For the tests conducted, a freestream Mach number of 0.7 was used. The 0.1 scale plate/pylon models were mounted on the side wall of the 2-foot test section and were able to pivot to change the angle of attack (AoA). No sideslip cases (yaw angle not equal to zero) were possible due to the test setup. The main purpose of the wind tunnel test was to measure the boundary layer thickness in the optical window region. In addition to collecting boundary layer data, static pressure ports collected data on the splitter plate centerline, and tufts and oil flows were used for flow visualization. (For complete information on the wind tunnel test, the reader is directed to Reference 1.)

For purposes of comparison with the CFD analysis, the baseline plate tested in the tunnel is a scaled version of the geometry used for the CFD analysis. One must remember that the tunnel model is mounted on a flat wall while the CFD configuration has a plate/pylon mounted on a curved fuselage. An inspection of the CFD and tunnel pressure data shows consistently uniform flow in the optical window region, and similar trends in the data. Direct comparison of the pressure values is not included due to the differences in flight conditions and geometry. Inclusion of the wind tunnel data in this report is solely for a qualitative comparison of streamline data with the calculated results.

Courtesy of Dr. James Van Kuren, the following two pictures (Figures 37 and 38) are included for comparison with the CFD results. Figure 37 shows tufts attached to the outboard surface of the plate. These tufts show the uniformity of the flow on the plate. Figure 38 shows an oil flow at an angle of attack of 2.5 degrees. Of particular interest in this picture is the stalled region (indicated by the stationary oil) on the pylon aft of the plate. This region is caused by the bluntness of the plate's trailing edge, and is consistent with findings in the CFD results (see Figure 39).

Although the flow conditions are slightly different for Figures 38 and 39, the angles of the oil

flow on the plate are remarkably similar. The oil flow on the pylon in Figure 39 indicates that the flow is also stalled in the computational solution as mentioned above.

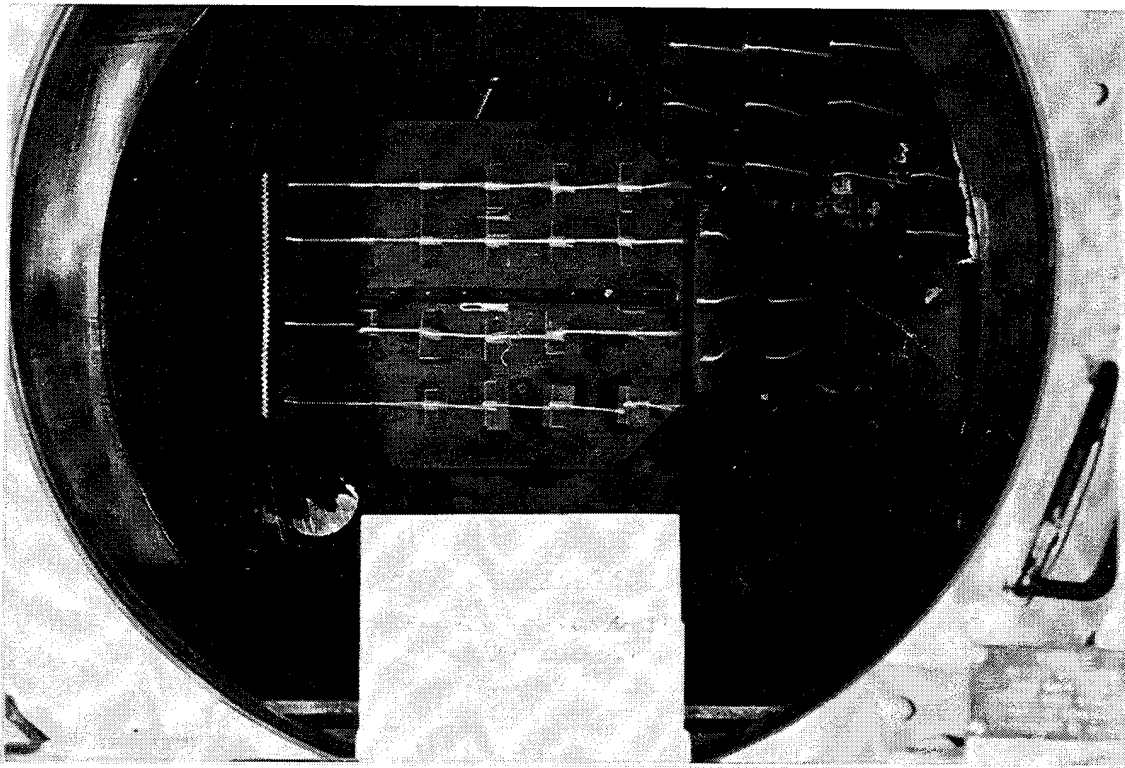


Figure 37: Tufted Splitter Plate in Tunnel

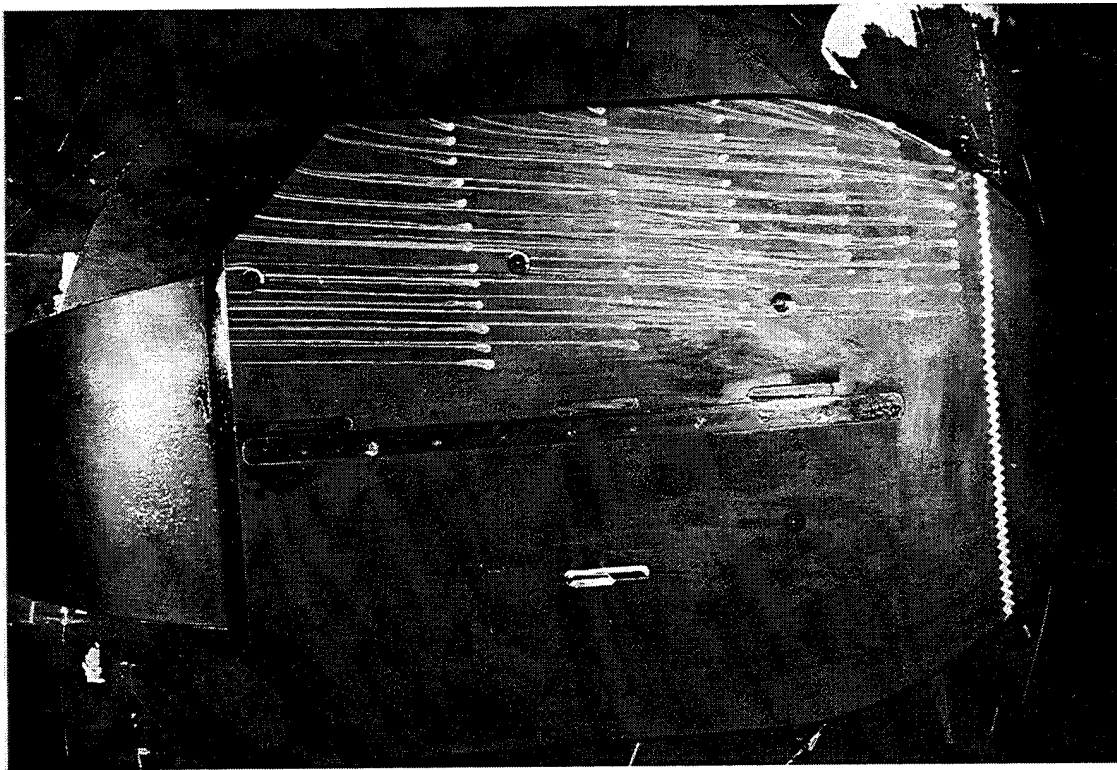
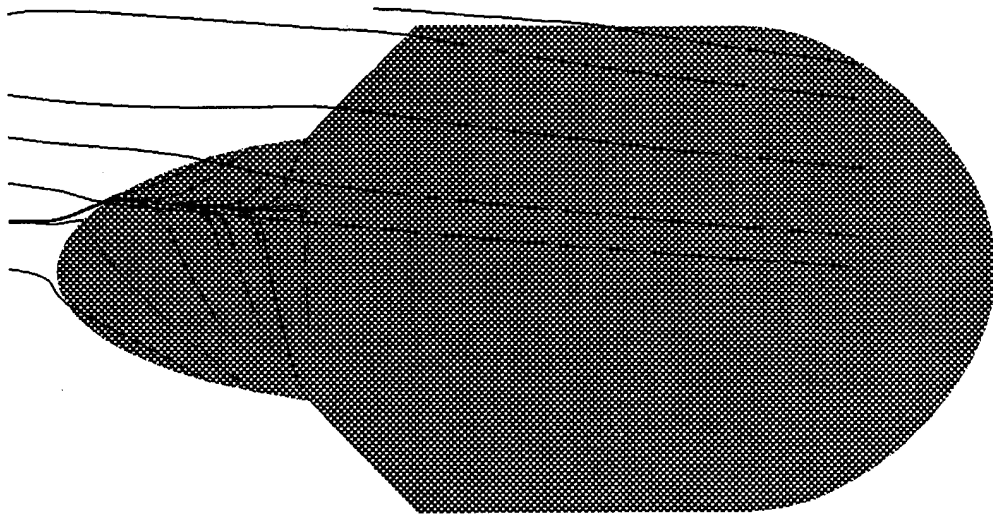


Figure 38: Splitter Plate Oil Flow in Tunnel ($Mach=0.7$, $\alpha=2.5$ deg)



$Mach = 0.76$
 $\alpha = 3.0$ deg

Figure 39: CFD Oil Flow on Splitter Plate

9. Plate and Pylon Loading

From the CFD analysis performed, pressure coefficient (C_p) data was extracted for use by the 4950 Test Wing. The Appendix contains the tabulated C_p data for the panels which make up the plate and pylon surfaces. This data was provided to the 4950 Test Wing where it was used to produce the loads and moments which act on the plate and pylon. From the C_p data, pressure loads (in lbs) were calculated on surface panels by using the definition of C_p , the area of the surface panel, and the unit normal. By summing the panels of interest, total loads and their directions were calculated. For the moment calculations, the loads were summarized around: fs 450, bl 84.5, and wl=256.

Courtesy of Mr Dave Bushroe of the 4950 Test Wing the following tables, seven through eleven, have been included to complete the results.

Table 7: Test Condition Summary

Condition	Altitude (feet)	Ve (KEAS)	Mach	Beta (deg)	Alpha (deg)	q (psf)	q (psi)
1	23800	360	0.87	-4.1	5.5	437.76	3.04
2	23800	360	0.87	-4.1	1.4	437.76	3.04
3	0	240	0.36	-14.5	14.6	191.98	1.33
4	45000	189	0.76	0.0	3.0	124.53	0.86

(KEAS = Knots Equivalent Airspeed, q = dynamic pressure)

In the following tables, eight through eleven, the first four surfaces represent the sides of the pylon, the next two represent the inboard plate surfaces, and the remaining surfaces represent the outboard plate surfaces and the top of the pylon.

Table 8: Pressures and Moments for Condition 1

Pressure and Moments on Plate and Pylon Surfaces

(Alt=23800 ft, Ve=360 keas, M=.87, Beta=-4.1 deg, Alpha=5.5 deg, q=3.04 psi)

Surface	Area	px	py	pz	mxx	myy	mzz
L A Py	751.0	10.6	0.6	-173.6	986.1	16122.5	-157.2
F Py B	2099.1	476.6	0.0	-918.3	4111.6	43926.9	4146.8
U A Py	2152.6	142.5	0.5	944.5	-18460.7	-85206.8	3061.0
F Py U	5923.6	-688.8	2.0	6469.4	-121879.8	-139361.0	-11769.4
Py Tot	10926.3	-59.1	3.1	6322.0	-135242.7	-164518.4	-4718.7
L Pl B	5231.6	-63.9	764.8	0.0	-21792.1	83.8	-160241.2
U Pl B	5224.2	48.1	-2402.5	0.0	129566.5	4002.9	-89673.2
Py T A Pl	3182.6	89.1	1020.4	0.0	-120.5	-131.7	89095.0
U Pl T	5228.7	-172.0	3110.2	-0.2	-99874.1	-4651.7	-132871.9
M Pl T	7749.1	-63.4	1814.6	0.0	-3276.5	-112.4	23616.6
L Pl T	5236.0	-207.7	3665.2	0.7	124729.6	5370.8	-176362.0
Pl Tot	31852.3	-389.8	7972.8	0.6	119293.8	4561.5	-426436.5
Totals		-448.9	7975.9	6322.6	-15948.8	-159956.9	-431155.3

(All table values have been rounded to the nearest decimal place for tabulation. For surface names the following abbreviations are used:

L=Lower, A=Aft, F=Forward, U=Upper, B=Bottom, T=Top, M=Middle, Py=Pylon, Pl=Plate)

Table 9: Pressures and Moments for Condition 2

Pressure and Moments on Plate and Pylon Surfaces

(Alt=23800 ft, Ve=360 keas, M=.87, Beta=-4.1 deg, Alpha=1.4 deg, q=3.04 psi)

Surface	Area	px	py	pz	mxx	myy	mzz
L A Py	751.0	-39.5	0.4	-57.7	150.7	4144.9	-664.5
F Py B	2099.1	140.4	0.1	1682.7	8894.7	26964.5	1983.6
U A Py	2152.6	138.0	0.5	881.8	-17411.1	-78935.8	2965.6
F Py U	5923.6	-174.7	1.7	5899.9	-114582.7	-160239.7	-5412.2
Py Tot	10926.3	84.1	2.6	5041.3	-122948.4	-206045.5	-1127.5
L Pl B	5231.6	-47.1	-888.0	0.0	-86105.8	-1666.8	-116937.4
U Pl B	5224.2	-5.9	-1313.4	0.1	99029.9	2574.7	-130833.4
Py T A Pl	3182.6	-54.6	161.8	0.0	-321.3	-28.3	3783.7
U Pl T	5228.7	-230.8	4006.2	-0.5	-129342.5	-8122.9	-181044.8
M Pl T	7749.1	-69.9	2000.9	0.0	-4021.1	-140.5	19696.6
L Pl T	5236.0	-239.7	4002.6	1.1	116673.1	5762.2	-203232.4
Pl Tot	31852.3	-648.2	7970.1	0.7	-2087.9	176.3	-608565.7
Totals		-584.1	7972.7	5041.9	-125036.3	-205867.1	-609693.2

(All table values have been rounded to the nearest decimal place for tabulation. For surface names the following abbreviations are used:

L=Lower, A=Aft, F=Forward, U=Upper, B=Bottom, T=Top, M=Middle, Py=Pylon, Pl=Plate)

Table 10: Pressures and Moments for Condition 3

Pressure and Moments on Plate and Pylon Surfaces

(Alt=0 ft, Ve=240 keas, M=.36, Beta=-14.5 deg, Alpha=14.6 deg, q=1.33 psi)

Surface	Area	px	py	pz	mxx	myy	mzz
L A Py	751.0	141.3	1.0	-438.8	2868.8	43175.3	1238.4
F Py B	2099.1	269.4	-0.2	-168.5	367.6	29746.9	1967.7
U A Py	2152.6	320.4	0.7	1026.0	-19259.9	-100850.3	6002.8
F Py U	5923.6	-397.6	0.9	2991.6	-56019.3	-74356.1	-5357.8
Py Tot	10926.3	333.4	3.4	3410.3	-72042.7	-102284.1	3851.1
L Pl B	5231.6	-114.6	2398.1	0.0	77212.4	3272.0	-97166.6
U Pl B	5224.2	-53.0	-622.0	0.0	47528.9	524.1	-70578.4
Py T A Pl	3182.6	501.4	2918.7	0.1	-3819.3	587.4	291952.4
U Pl T	5228.7	-101.5	1581.5	-0.1	-52008.6	-2576.5	-59949.4
M Pl T	7749.1	-75.0	2146.9	0.0	2237.3	78.0	47561.0
L Pl T	5236.0	-188.0	3392.0	-0.4	129446.1	5634.8	-95113.7
Pl Tot	31852.3	-30.7	11815.1	-0.3	200596.7	7519.8	16705.3
Totals		302.8	11817.5	3410.0	128554.0	-94764.3	20556.3

(All table values have been rounded to the nearest decimal place for tabulation. For surface names the following abbreviations are used:
L=Lower, A=Aft, F=Forward, U=Upper, B=Bottom, T=Top, M=Middle, Py=Pylon,
Pl=Plate)

Table 11: Pressures and Moments for Condition 4

Pressure and Moments on Plate and Pylon Surfaces

(Alt=45000 ft, Ve=189 keas, M=.76, Beta=0 deg, Alpha=3 deg, q=.865 psi)

Surface	Area	px	py	pz	mxx	myy	mzz
L A Py	751.0	9.3	0.3	-67.7	401.8	6416.9	9.6
F Py B	2099.1	107.6	0.0	-344.8	1667.3	12592.0	1004.9
U A Py	2152.6	72.7	0.2	372.4	-7079.2	-34332.9	1447.3
F Py U	5923.6	-222.0	0.7	2067.4	-39330.3	-46416.4	-3732.3
Py Tot	10926.3	-32.5	1.1	2027.3	-44340.5	-61740.4	-1270.5
L Pl B	5231.6	-6.8	-60.2	0.0	-14467.5	-376.0	-34105.1
U Pl B	5224.2	34.0	-956.7	0.0	45337.2	1640.6	-8762.0
Py T A Pl	3182.6	53.1	424.4	0.0	39.6	-16.7	39477.6
U Pl T	5228.7	-36.7	732.4	0.0	-25268.1	-1086.0	-22039.4
M Pl T	7749.1	-21.8	625.0	0.0	-1415.3	-49.4	12333.8
L Pl T	5236.0	-45.8	780.5	0.0	24342.9	1173.9	-35501.8
Pl Tot	31852.3	-24.0	1545.5	0.0	28568.7	1286.4	-48596.8
Totals		-56.5	1546.6	2027.3	-15771.8	-60454.0	-49867.3

(All table values have been rounded to the nearest decimal place for tabulation. For surface names the following abbreviations are used:

L=Lower, A=Aft, F=Forward, U=Upper, B=Bottom, T=Top, M=Middle, Py=Pylon, Pl=Plate)

10. References

- [1] Van Kuren, James T. "ABL AACT Splitter Plate, 0.1 Scale Wind Tunnel Test," April 1993
- [2] Emsley H. T. "I3G/VIRGO, Interactive Graphics for Geometry Generation and Visual Interactive Rapid Grid Generation, User's Manual," WL-TM-91- 316.
- [3] Emsley H. T. "PLUTO 3-D Grid Generator, User's Manual," WL-TM-91-312.
- [4] Strang W. Z. "Mercury User's Manual," AFWAL-TM-88-217.
- [5] Boeing Company "External Internal Loads for the C-135 Airplane," D6-7267, April 1961.

Appendix

(Cp data on plate and pylon surfaces)

THIS TABULATED DATA PROVIDES THE PRESSURE COEFFICIENT DATA OF ALL PANELS ON
THE PLATE AND PYLON SURFACES

X,Y,Z : THE CENTROID COORDINATE LOCATION OF THE PANEL
AREA : THE SURFACE AREA OF THE PANEL
EX,EY,EZ: THE UNIT NORMAL COMPONENTS
CP1 : PRESSURE COEFFICIENT AT (MACH = 0.76, ALPHA = 3.0, BETA = 0.0)
CP2 : PRESSURE COEFFICIENT AT (MACH = 0.87, ALPHA = 5.5, BETA = -4.1)
CP3 : PRESSURE COEFFICIENT AT (MACH = 0.36, ALPHA = 14.6, BETA = -14.5)
CP4 : PRESSURE COEFFICIENT AT (MACH = 0.87, ALPHA = 1.4, BETA = -4.1)

pylon aft lower

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
549.2980	73.2220	226.0274	35.7519	0.1701	0.0036	-0.9854	-0.13760	-0.11164	-0.47665	-0.07741
561.0918	73.0427	228.4106	25.9181	0.2308	0.0030	-0.9730	-0.11435	-0.08551	-0.51197	-0.03390
570.8676	72.8062	231.0316	17.4671	0.2929	0.0033	-0.9561	-0.13280	-0.10461	-0.58486	-0.02849
578.7389	72.5117	233.7019	11.2953	0.3560	0.0045	-0.9345	-0.14832	-0.12010	-0.61202	-0.02549
584.9449	72.1625	236.2983	7.1759	0.4232	0.0067	-0.9060	-0.17133	-0.14067	-0.68801	-0.04235
589.7532	71.7545	238.7618	4.8951	0.4971	0.0081	-0.8726	-0.20098	-0.15698	-0.75304	-0.06636
593.4294	70.3053	241.0666	2.9851	0.5773	0.0093	-0.8200	-0.16791	-0.11488	-0.82955	-0.04762
596.2608	70.4052	245.0032	2.0235	0.6138	-0.0080	-0.7894	-0.05632	-0.00424	-0.26954	0.03687
598.4449	69.9676	246.6871	1.4305	0.6887	-0.0020	-0.7250	-0.04044	0.02026	-0.31898	0.04391
600.1243	69.5443	248.2119	1.0589	0.7298	-0.0035	-0.6836	0.05471	0.10334	-0.19713	0.12073
601.4092	69.1348	249.6212	0.8243	0.8034	0.0054	-0.5954	0.07480	0.11855	-0.24210	0.14594
602.3622	68.7460	250.9017	0.6764	0.8566	0.0030	-0.5159	0.14987	0.18381	-0.20520	0.22408
603.0971	68.3764	252.0695	0.5839	0.8791	-0.0027	-0.4767	0.23886	0.25898	-0.10858	0.32611
603.6568	68.0232	253.1499	0.5164	0.9249	0.0035	-0.3802	0.24126	0.25747	-0.17681	0.36873
604.0432	67.6879	254.1459	0.4737	0.9584	-0.0020	-0.2854	0.31458	0.32013	-0.20988	0.47840
604.3008	67.3707	255.0598	0.4460	0.9776	-0.0002	-0.2106	0.42926	0.42241	-0.24118	0.63172
604.4716	67.0707	255.8982	0.4273	0.9880	-0.0014	-0.1544	0.52927	0.51235	-0.26345	0.75947
604.5837	66.7896	256.6613	0.4122	0.9939	-0.0017	-0.1099	0.65978	0.53291	-0.32021	0.87551
604.6553	66.5146	257.3669	0.3913	0.9971	-0.0020	-0.0763	0.80078	0.56992	-0.33589	0.91372
604.7166	66.2414	258.0188	3.43594	0.1873	0.0030	-0.9859	-0.14295	-0.11611	-0.47262	-0.08507
604.7649	65.9749	258.5488	24.9538	0.2285	0.0025	-0.9735	-0.11423	-0.08528	-0.50479	-0.03658
604.8098	65.7150	259.0388	16.8586	0.2909	0.0029	-0.9568	-0.12477	-0.09685	-0.56894	-0.02477
604.8498	65.4611	259.4974	10.9303	0.3542	0.0041	-0.9351	-0.13419	-0.10702	-0.59163	-0.01579
604.8898	65.2155	259.9285	8.9624	0.4212	0.0063	-0.9070	-0.15584	-0.12359	-0.66820	-0.02670
604.9298	64.9722	260.3307	4.4472	0.4940	0.0074	-0.8694	-0.17701	-0.13635	-0.50725	-0.04625
604.9698	64.7397	260.7088	2.9135	0.5675	0.0026	-0.8234	-0.15299	-0.10310	-0.41676	-0.03433
604.9998	64.5121	261.0397	1.9824	0.6108	-0.0088	-0.7917	-0.04815	0.00142	-0.25971	0.04474
605.0298	64.2898	261.3297	1.4073	0.6854	-0.0032	-0.7281	-0.02971	0.02889	-0.29970	0.05351
605.0598	64.0625	261.5893	1.0461	0.7276	-0.0044	-0.6859	0.06038	0.10857	-0.18485	0.12505
605.0898	63.8358	261.8198	0.8187	0.7986	0.0034	-0.6018	0.08209	0.12551	-0.21792	0.14928
605.1198	63.6083	262.0307	0.6757	0.8531	-0.0014	-0.5218	0.14616	0.18128	-0.19670	0.21571
605.1498	63.3808	262.2307	0.5857	0.8777	-0.0031	-0.4791	0.23886	0.26041	-0.09440	0.31871
605.1798	63.1533	262.4307	0.5201	0.9219	-0.0022	-0.3874	0.24877	0.26583	-0.13301	0.36821
605.2098	62.9258	262.6307	0.4792	0.9566	-0.0010	-0.2915	0.30662	0.31458	-0.15437	0.45079
605.2398	62.6983	262.8307	0.4524	0.9767	-0.0006	-0.2147	0.40862	0.40378	-0.28256	0.58982
605.2698	62.4708	263.0307	0.4341	0.9877	-0.0015	-0.1515	0.48297	0.48227	-0.30330	0.71628
605.2998	62.2433	263.2307	0.4191	0.9938	-0.0019	-0.1112	0.60857	0.58352	-0.34149	0.84093
605.3298	62.0158	263.4307	0.3983	0.9971	-0.0020	-0.0766	0.72823	0.70661	-0.08206	0.89922
605.3598	61.7883	263.6307	31.5272	0.1646	0.0023	-0.9864	-0.13357	-0.10722	-0.46163	-0.07537
605.3898	61.5608	263.8307	23.0916	0.2263	0.0021	-0.9741	-0.10650	-0.07826	-0.49834	-0.02875
605.4198	61.3333	264.0307	15.7337	0.2890	0.0026	-0.9573	-0.12187	-0.09395	-0.56417	-0.02185
605.4498	61.1058	264.2307	10.2819	0.3525	0.0038	-0.9358	-0.13004	-0.10287	-0.58278	-0.01211
605.4798	60.8783	264.4307	6.5965	0.4192	0.0059	-0.9079	-0.14857	-0.11679	-0.55868	-0.02067
605.5098	60.6508	264.6307	4.2424	0.4910	0.0067	-0.8711	-0.16738	-0.12767	-0.49884	-0.03837
605.5398	60.4233	264.8307	2.7967	0.5627	-0.0012	-0.8267	-0.14425	-0.09577	-0.41134	-0.02702
605.5698	60.1958	265.0307	1.9148	0.6079	-0.0098	-0.7940	-0.04514	0.00337	-0.26331	0.04751
605.5998	60.0027	265.2307	1.3682	0.6822	-0.0043	-0.7312	-0.02510	0.03206	-0.29813	0.05774
605.6298	59.8100	265.4307	1.0233	0.7255	-0.0051	-0.6882	0.06124	0.10871	-0.19063	0.12673
605.6598	59.6175	265.6307	0.8063	0.7939	-0.0014	-0.6080	0.08489	0.12752	-0.21658	0.15179
605.6898	59.4250	265.8307	0.6704	0.8495	-0.0003	-0.5275	0.14157	0.17665	-0.20129	0.21171
605.7198	59.2325	266.0307	0.5842	0.8764	-0.0038	-0.4816	0.23026	0.25268	-0.10139	0.30818
605.7498	59.0400	266.2307	0.5213	0.9190	-0.0002	-0.3943	0.24595	0.26390	-0.11727	0.35203
605.7798	58.8475	266.4307	0.4757	0.9547	-0.0002	-0.2974	0.29898	0.30866	-0.12157	0.43563
605.8098	58.6550	266.6307	0.4401	0.9873	-0.0015	-0.1586	0.39396	0.39191	-0.24329	0.56379
605.8398	58.4625	266.8307	0.4255	0.9937	-0.0017	-0.1124	0.46265	0.46265	-0.27559	0.68268
605.8698	58.2700	267.0307	0.4050	0.9970	-0.0019	-0.0769	0.56779	0.54623	-0.72559	0.80511
605.8998	58.0775	267.2307	27.7534	0.1623	0.0018	-0.9867	-0.66376	-0.64230	-0.42959	-0.88115
605.9298	57.8850	267.4307	20.6568	0.2244	0.0017	-0.9745	-0.15242	-0.12236	-0.48303	-0.09535
605.9598	57.6925	267.6307	14.2862	0.2872	0.0022	-0.9579	-0.08422	-0.09212	-0.50701	-0.03782
605.9898	57.5000	267.8307	9.4597	0.3509	0.0035	-0.9364	-0.12050	-0.09212	-0.55569	-0.02209
606.0198	57.3075	268.0307	6.1385	0.4173	0.0055	-0.9087	-0.12222	-0.09505	-0.56444	-0.00644
606.0498	57.1150	268.2307	3.9882	0.4881	0.0060	-0.8728	-0.13379	-0.10326	-0.53682	-0.00930
606.0798	56.9225	268.4307	2.6525	0.5581	0.0000	-0.8298	-0.14656	-0.10932	-0.47570	-0.02205
606.1098	56.7300	268.6307	1.8314	0.6050	-0.0106	-0.7962	-0.12504	-0.07982	-0.39207	-0.01188
606.1398	56.5375	268.8307	1.3193	0.6790	-0.0059	-0.7341	-0.03368	0.01205	-0.25197	0.06916
606.1698	56.3450	269.0307	0.9941	0.7393	-0.0004	-0.6904	0.04364	0.07140	-0.17308	0.13350
606.1998	56.1525	269.2307	0.7837	0.7893	-0.0004	-0.6104	0.07140	0.09724	-0.18815	0.15928
606.2298	55.9600	269.4307	0.6818	0.8461	-0.0018	-0.5330	0.09724	0.13841	-0.18048	0.21221
606.2598	55.7675	269.6307	0.6004	0.8750	-0.0045	-0.4840	0.14774	0.18250	-0.08236	0.30706
606.2898	55.5750	269.8307	0.5161	0.9161	-0.0005	-0.4009	0.23822	0.26081	-0.07164	0.35347
606.3198	55.3825	270.0307	0.4536	0.9530	-0.0006	-0.3030	0.26324	0.28092	-0.05611	0.42319
606.3498	55.1900	270.2307	0.4011	0.9870	-0.0015	-0.2224	0.30949	0.31993	-0.05161	0.53226
606.3798	55.0000	270.4307	0.3547	0.9750	-0.0018	-0.1607	0.39577	0.39504	-0.15011	0.63471
606.4098	54.8075	270.6307	0.3136	0.9870	-0.0020	-0.1136	0.46126	0.45444	-0.61187	0.74803
606.4398	54.6150	270.8307	0.2797	0.9935	-0.0020	-0.0772	0.53220	0.51361	-0.87248	0.84030
606.4698	54.4225	271.0307	0.2415	0.9970	-0.0012	-0.0297	0.58818	0.56394	-0.79807	0.97244
606.4998	54.2300	271.2307	23.5943	0.1603	0.0012	-0.9871	-0.13149	-0.10294	-0.44139	-0.02593
606.5298	54.0375	271.4307	18.0015	0.2227	0.0013	-0.9749	-0.10213	-0.07359	-0.49025	-0.01650
606.5598	53.8450	271.6307	12.7216	0.2856	0.0019	-0.9583	-0.11487	-0.08645	-0.54553	-0.01650

577.8640	78.0073	233.3944	8.5783	0.3495	0.0032	-0.9369	-0.11442	-0.08741	-0.54858	0.00068
584.2168	76.5860	235.9908	5.6509	0.4156	0.0051	-0.9096	-0.12194	-0.09219	-0.52156	0.00079
589.1287	75.3429	238.4373	3.7187	0.4854	0.0053	-0.8743	-0.13244	-0.09664	-0.50595	-0.01037
592.8949	74.2745	240.7043	2.5001	0.5536	-0.0012	-0.8328	-0.11290	-0.06989	-0.38957	-0.00156
595.8005	73.3709	242.7566	1.7431	0.6022	-0.0115	-0.7983	-0.02998	0.01387	-0.26318	-0.06026
598.0450	72.6065	244.6171	1.2673	0.6759	-0.0066	-0.7369	-0.00809	0.04402	-0.28544	0.07238
599.7791	71.9536	246.3083	0.9628	0.7213	-0.0068	-0.6926	0.06722	0.11213	-0.19413	0.13145
601.1237	71.3933	247.8434	0.7714	0.7848	-0.0024	-0.6198	0.09251	0.13307	-0.20331	0.15656
602.1430	70.9136	249.2674	0.6521	0.8427	-0.0033	-0.5383	0.12978	0.16523	-0.20193	0.19832
602.9280	70.5013	250.5800	0.5755	0.8738	-0.0049	-0.4862	0.21088	0.23611	-0.10551	0.28452
603.5336	70.1399	251.7859	0.5196	0.9133	-0.0017	-0.4073	0.24370	0.26453	-0.06111	0.33605
603.9674	69.8278	252.9080	0.4871	0.9512	-0.0015	-0.3085	0.28876	0.30342	-0.00095	0.40071
604.2596	69.5641	253.9536	0.4654	0.9741	-0.0019	-0.2260	0.37214	0.37606	-0.04504	0.49853
604.4524	69.3371	254.9205	0.4505	0.9867	-0.0019	-0.1626	0.43472	0.43254	-0.49712	0.58429
604.5778	69.1366	255.8117	0.4375	0.9934	-0.0019	-0.1147	0.49885	0.48701	-0.79529	0.67910
604.6568	68.9576	256.6253	0.4180	0.9970	-0.0020	-0.0774	0.51296	0.49824	-0.98823	0.76211
604.7024	68.8024	257.3673	0.3990	0.9970	-0.0007	-0.0573	0.51305	0.49824	-0.98823	0.76211
604.7259	68.6755	258.0255	0.3755	0.9886	0.0009	-0.0007	0.51305	0.49824	-0.98823	0.76211
604.7462	68.5814	258.6539	0.3490	0.9744	0.0015	-0.0588	0.51305	0.49824	-0.98823	0.76211
604.7637	68.5136	259.2524	0.3234	0.9481	0.0029	-0.0374	0.51305	0.49824	-0.98823	0.76211
604.7787	68.4610	259.8224	0.2987	0.9139	0.0047	-0.0103	0.51305	0.49824	-0.98823	0.76211
604.7911	68.4244	260.3673	0.2755	0.8738	0.0046	-0.0046	0.51305	0.49824	-0.98823	0.76211
604.8011	68.3986	260.8248	0.2535	0.8295	-0.0024	-0.0356	0.51305	0.49824	-0.98823	0.76211
604.8091	68.3733	261.2981	0.2335	0.7829	-0.0124	-0.0803	0.51305	0.49824	-0.98823	0.76211
604.8151	68.3486	261.7871	0.2153	0.7349	-0.0076	-0.1389	0.51305	0.49824	-0.98823	0.76211
604.8201	68.3248	262.2922	0.1987	0.6867	-0.0075	-0.1947	0.51305	0.49824	-0.98823	0.76211
604.8241	68.3011	262.8133	0.1837	0.6385	-0.0042	-0.2533	0.51305	0.49824	-0.98823	0.76211
604.8281	68.2774	263.3504	0.1692	0.5903	-0.0046	-0.3119	0.51305	0.49824	-0.98823	0.76211
604.8321	68.2537	263.9035	0.1552	0.5421	-0.0054	-0.3705	0.51305	0.49824	-0.98823	0.76211
604.8361	68.2300	264.4726	0.1417	0.4939	-0.0029	-0.4291	0.51305	0.49824	-0.98823	0.76211
604.8401	68.2063	265.0577	0.1287	0.4457	-0.0022	-0.4877	0.51305	0.49824	-0.98823	0.76211
604.8441	68.1826	265.6588	0.1162	0.3975	-0.0022	-0.5463	0.51305	0.49824	-0.98823	0.76211
604.8481	68.1589	266.2759	0.1042	0.3493	-0.0021	-0.6049	0.51305	0.49824	-0.98823	0.76211
604.8521	68.1352	266.9090	0.0927	0.3011	-0.0021	-0.6635	0.51305	0.49824	-0.98823	0.76211
604.8561	68.1115	267.5581	0.0817	0.2529	-0.0020	-0.7221	0.51305	0.49824	-0.98823	0.76211
604.8601	68.0878	268.2232	0.0712	0.2047	-0.0020	-0.7807	0.51305	0.49824	-0.98823	0.76211
604.8641	68.0641	268.9043	0.0612	0.1565	-0.0020	-0.8393	0.51305	0.49824	-0.98823	0.76211
604.8681	68.0404	269.6014	0.0517	0.1083	-0.0020	-0.8979	0.51305	0.49824	-0.98823	0.76211
604.8721	68.0167	270.3145	0.0427	0.0601	-0.0020	-0.9565	0.51305	0.49824	-0.98823	0.76211
604.8761	67.9930	271.0436	0.0342	0.0119	-0.0020	-1.0151	0.51305	0.49824	-0.98823	0.76211
604.8801	67.9693	271.7887	0.0262	0.0000	-0.0020	-1.0737	0.51305	0.49824	-0.98823	0.76211
604.8841	67.9456	272.5498	0.0187	0.0000	-0.0020	-1.1323	0.51305	0.49824	-0.98823	0.76211
604.8881	67.9219	273.3269	0.0117	0.0000	-0.0020	-1.1909	0.51305	0.49824	-0.98823	0.76211
604.8921	67.8982	274.1190	0.0052	0.0000	-0.0020	-1.2495	0.51305	0.49824	-0.98823	0.76211
604.8961	67.8745	274.9271	0.0000	0.0000	-0.0020	-1.3081	0.51305	0.49824	-0.98823	0.76211
604.9001	67.8508	275.7512	0.0000	0.0000	-0.0020	-1.3667	0.51305	0.49824	-0.98823	0.76211
604.9041	67.8271	276.5913	0.0000	0.0000	-0.0020	-1.4253	0.51305	0.49824	-0.98823	0.76211
604.9081	67.8034	277.4474	0.0000	0.0000	-0.0020	-1.4839	0.51305	0.49824	-0.98823	0.76211
604.9121	67.7797	278.3205	0.0000	0.0000	-0.0020	-1.5425	0.51305	0.49824	-0.98823	0.76211
604.9161	67.7560	279.2106	0.0000	0.0000	-0.0020	-1.6011	0.51305	0.49824	-0.98823	0.76211
604.9201	67.7323	280.1177	0.0000	0.0000	-0.0020	-1.6597	0.51305	0.49824	-0.98823	0.76211
604.9241	67.7086	281.0428	0.0000	0.0000	-0.0020	-1.7183	0.51305	0.49824	-0.98823	0.76211
604.9281	67.6849	281.9859	0.0000	0.0000	-0.0020	-1.7769	0.51305	0.49824	-0.98823	0.76211
604.9321	67.6612	282.9470	0.0000	0.0000	-0.0020	-1.8355	0.51305	0.49824	-0.98823	0.76211
604.9361	67.6375	283.9261	0.0000	0.0000	-0.0020	-1.8941	0.51305	0.49824	-0.98823	0.76211
604.9401	67.6138	284.9232	0.0000	0.0000	-0.0020	-1.9527	0.51305	0.49824	-0.98823	0.76211
604.9441	67.5901	285.9383	0.0000	0.0000	-0.0020	-2.0113	0.51305	0.49824	-0.98823	0.76211
604.9481	67.5664	286.9714	0.0000	0.0000	-0.0020	-2.0699	0.51305	0.49824	-0.98823	0.76211
604.9521	67.5427	288.0235	0.0000	0.0000	-0.0020	-2.1285	0.51305	0.49824	-0.98823	0.76211
604.9561	67.5190	289.0946	0.0000	0.0000	-0.0020	-2.1871	0.51305	0.49824	-0.98823	0.76211
604.9601	67.4953	290.1847	0.0000	0.0000	-0.0020	-2.2457	0.51305	0.49824	-0.98823	0.76211
604.9641	67.4716	291.2938	0.0000	0.0000	-0.0020	-2.3043	0.51305	0.49824	-0.98823	0.76211
604.9681	67.4479	292.4219	0.0000	0.0000	-0.0020	-2.3629	0.51305	0.49824	-0.98823	0.76211
604.9721	67.4242	293.5690	0.0000	0.0000	-0.0020	-2.4215	0.51305	0.49824	-0.98823	0.76211
604.9761	67.4005	294.7351	0.0000	0.0000	-0.0020	-2.4801	0.51305	0.49824	-0.98823	0.76211
604.9801	67.3768	295.9202	0.0000	0.0000	-0.0020	-2.5387	0.51305	0.49824	-0.98823	0.76211
604.9841	67.3531	297.1253	0.0000	0.0000	-0.0020	-2.5973	0.51305	0.49824	-0.98823	0.76211
604.9881	67.3294	298.3504	0.0000	0.0000	-0.0020	-2.6559	0.51305	0.49824	-0.98823	0.76211
604.9921	67.3057	299.5955	0.0000	0.0000	-0.0020	-2.7145	0.51305	0.49824	-0.98823	0.76211
604.9961	67.2820	300.8606	0.0000	0.0000	-0.0020	-2.7731	0.51305	0.49824	-0.98823	0.76211
605.0001	67.2583	302.1457	0.0000	0.0000	-0.0020	-2.8317	0.51305	0.49824	-0.98823	0.76211
605.0041	67.2346	303.4508	0.0000	0.0000	-0.0020	-2.8903	0.51305	0.49824	-0.98823	0.76211
605.0081	67.2109	304.7759	0.0000	0.0000	-0.0020	-2.9489	0.51305	0.49824	-0.98823	0.76211
605.0121	67.1872	306.1210	0.0000	0.0000	-0.0020	-3.0075	0.51305	0.49824	-0.98823	0.76211
605.0161	67.1635	307.4861	0.0000	0.0000	-0.0020	-3.0661	0.51305	0.49824	-0.98823	0.76211
605.0201	67.1398	308.8712	0.0000	0.0000	-0.0020	-3.1247	0.51305	0.49824	-0.98823	0.76211
605.0241	67.1161	310.2763	0.0000	0.0000	-0.0020	-3.1833	0.51305	0.49824	-0.98823	0.76211
605.0281	67.0924	311.7014	0.0000	0.0000	-0.0020	-3.2419	0.51305	0.49824	-0.98823	0.76211
605.0321	67.0687	313.1465	0.0000	0.0000	-0.0020	-3.3005	0.51305	0.49824	-0.98823	0.76211
605.0361	67.0450	314.6116	0.0000	0.0000	-0.0020	-3.3591	0.51305	0.49824	-0.98823	0.76211
605.0401	67.0213	316.0967	0.0000	0.0000	-0.0020	-3.4177	0.51305	0.49824	-0.98823	0.76211
605.0441	66.9976	317.6018	0.0000	0.0000	-0.0020	-3.4763	0.51305	0.49824	-0.98823	0.76211
605.0481	66.9739	319.1269	0.0000	0.0000	-0.0020	-3.5349	0.51305	0.49824	-0.98823	0.76211
605.0521	66.9502	320.6720	0.0000	0.0000	-0.0020	-3.5935	0.51305	0.49824	-0.98823	0.76211
605.0561	66.9265	322.2371	0.0000	0.0000	-0.0020	-3.6521	0.51305	0.49824	-0.98823	0.76211
605.0601	66.9028	323.8222	0.0000	0.0000	-0.0020	-3.7107	0.51305	0.49824	-0.98823	0.76211
605.0641	66.8791	325.4273	0.0000	0.0000	-0.0020	-3.7693	0.51305	0.49824	-0.98823	0.76211
605.0681	66.8554	327.0524	0.0000	0.0000	-0.0020	-3.8279	0.51305	0.49824	-0.98823	0.76211
605.0721	66.8317	328.6975	0.0000	0.0000	-0.0020	-3.8865	0.51305	0.49824	-0.98823	0.76211
605.0761	66.8080	330.3626	0.0000	0.0000	-0.0020	-3.9451	0.51305	0.49824	-0.98823	0.76211
605.0801	66.7843	332.0477	0.0000	0.0000	-0.0020	-4.0037	0.51305	0.49824	-0.98823	0.76211
605.0841	66.7606	333.7528	0.0000	0.0000	-0.0020	-4.0623	0.51305	0.49824	-0.98823	0.76211
605.0881	66.7369									

pylon aft upper

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
550.1262	48.3762	287.8208	134.2319	0.1717	0.0014	0.9852	-0.30816	-0.25794	-0.43759	-0.25431
551.9843	50.4717	285.3651	92.8888	0.2388	0.0017	0.9711	-0.27718	-0.22041	-0.45447	-0.21134
552.6135	52.6135	283.9913	61.4416	0.2966	0.0010	0.9550	-0.22829	-0.16922	-0.42744	-0.15505
553.4788	54.7888	277.3716	39.9484	0.3658	0.0018	0.9307	-0.19732	-0.13692	-0.43130	-0.11874
554.2582	56.2582	274.9465	25.6020	0.4331	0.0016	0.9013	-0.13264	-0.07718	-0.39871	-0.05570
555.2199	57.8192	272.7315	16.5738	0.4939	0.0014	0.8695	-0.06057	-0.01227	-0.36090	-0.00958
556.1648	59.1648	270.7218	10.8728	0.5654	0.0029	0.8248	-0.01973	-0.02374	-0.37693	-0.04253
557.3196	60.3196	268.9070	7.3353	0.6243	0.0023	0.7812	0.05112	0.08589	-0.32422	-0.10090
558.6110	61.3148	267.2740	5.0504	0.6919	0.0036	0.7220	0.09611	0.12892	-0.32833	-0.13801
559.2133	62.1788	265.7932	3.5747	0.7372	0.0033	0.6757	0.16866	0.19697	-0.24312	-0.19862
560.4419	62.9275	264.4283	2.5984	0.8033	0.0049	0.5956	0.18386	0.21530	-0.24466	-0.20207
561.3665	63.5852	263.1778	1.9398	0.8525	0.0038	0.5227	0.22415	0.25664	-0.18414	-0.22293
562.0811	64.1591	262.0277	1.4914	0.8837	0.0027	0.4680	0.28305	0.31624	-0.08194	-0.25193
563.6299	64.6628	260.9594	1.1617	0.9209	0.0027	0.3899	0.32533	0.36132	-0.00659	-0.24847
564.0213	65.1140	259.9655	0.9255	0.9558	0.0022	0.2940	0.39728	0.43023	0.08741	-0.25811
564.2849	65.5210	259.0447	0.7513	0.9764	0.0010	0.2158	0.53097	0.54998	0.24199	-0.26294
564.4611	65.8870	258.1926	0.6206	0.9875	0.0000	0.1578	0.67211	0.67378	0.44402	-0.42280
564.5779	66.2162	257.4041	0.5193	0.9930	-0.0007	0.1114	0.82711	0.80740	0.60234	-0.65059
564.6533	66.5128	256.9753	0.4399	0.9970	-0.0012	0.0768	0.86056	0.84224	0.72148	-0.79777
549.1623	57.9387	287.9753	12.0834	0.1676	0.0010	0.9832	-0.27132	-0.22981	-0.40972	-0.26745
549.2583	58.2583	285.5306	8.1802	0.2341	0.0013	0.9722	-0.25405	-0.22981	-0.42294	-0.22039
551.1559	59.7499	283.8549	5.7849	0.2931	0.0007	0.9560	-0.24406	-0.17823	-0.40203	-0.16400
551.9596	60.5639	280.1478	3.7189	0.3318	0.0014	0.9333	-0.20676	-0.14238	-0.40751	-0.12453
552.2151	60.9932	277.0922	2.4399	0.4288	0.0011	0.9034	-0.14269	-0.08658	-0.38821	-0.06639
553.3539	61.1762	275.0922	1.5675	0.4907	0.0010	0.8713	-0.06667	-0.02097	-0.35593	-0.00141
553.5798	61.9198	272.8650	1.0359	0.5612	0.0024	0.8277	-0.01448	-0.02424	-0.36479	-0.04021
553.7320	62.6074	270.8525	0.70356	0.6200	0.0017	0.7846	0.06258	0.09311	-0.30740	-0.10511
553.8742	63.2368	269.0286	4.8777	0.6882	0.0031	0.7255	0.10620	0.13655	-0.31493	-0.14288
554.0052	63.8101	267.3842	3.4720	0.7342	0.0028	0.6790	0.17658	0.20344	-0.22719	-0.20251
554.1595	64.3261	265.8927	2.5388	0.7986	0.0042	0.6019	0.18872	0.21984	-0.22822	-0.20352
554.3069	64.7965	264.5167	1.9067	0.8496	0.0033	0.5275	0.23740	0.26948	-0.15071	-0.23267
554.3882	65.2187	263.2527	1.4731	0.8819	0.0023	0.4715	0.29732	0.33069	-0.04540	-0.26109
554.6010	65.5975	262.0896	1.1529	0.9184	0.0023	0.3955	0.33462	0.37112	0.02691	-0.24885
554.7043	65.9463	261.0084	0.9235	0.9543	0.0019	0.2988	0.40933	0.44180	0.11916	-0.25771
554.7622	66.2704	260.0010	0.7529	0.9757	0.0008	0.2191	0.55489	0.57051	0.27810	-0.34858
554.8457	66.5685	259.0673	0.6243	0.9872	-0.0001	0.1595	0.69443	0.69115	0.37500	-0.49454
554.8771	66.8410	258.2034	0.5240	0.9937	-0.0007	0.1124	0.82026	0.79806	0.57941	-0.67384
554.9539	67.0897	257.4052	0.4433	0.9970	-0.0012	0.0770	0.82505	0.80640	0.75275	-0.80798
548.3271	66.2302	288.1093	101.4025	0.1641	0.0006	0.9864	-0.33290	-0.26557	-0.41139	-0.25161
548.6194	66.2812	285.6755	72.1869	0.2300	0.0008	0.9732	-0.30378	-0.22661	-0.43299	-0.19166
549.6683	64.6583	283.0005	49.0474	0.2904	0.0004	0.9569	-0.26033	-0.18559	-0.43418	-0.17238
549.7872	64.2951	280.2898	32.6886	0.3581	0.0010	0.9337	-0.22290	-0.15403	-0.43197	-0.13554
549.9090	64.1891	277.6653	21.5009	0.4248	0.0007	0.9053	-0.16277	-0.10403	-0.42039	-0.08572
549.9706	64.2940	275.3282	14.5232	0.5777	0.0007	0.8730	-0.08859	-0.04330	-0.39329	-0.02634
549.9933	64.5048	272.9282	9.6530	0.6158	0.0012	0.8304	-0.03254	-0.00470	-0.39981	-0.01743
549.9998	64.7733	269.9762	6.5956	0.6847	0.0026	0.7879	0.04182	0.07265	-0.34527	-0.08150
549.9999	65.0707	267.4900	3.3025	0.7312	0.0024	0.6821	0.15217	0.18189	-0.26385	-0.18022
549.9999	65.3774	265.9890	2.4374	0.7939	0.0035	0.6080	0.16226	0.19725	-0.26156	-0.18139
549.9999	65.6780	264.6025	1.8469	0.8467	0.0028	0.5321	0.20382	0.24157	-0.18813	-0.20585
549.9999	65.9737	263.3258	1.4375	0.8801	0.0020	0.4749	0.25723	0.29823	-0.07948	-0.22998
549.9999	66.2535	262.1503	1.1330	0.9161	0.0018	0.4009	0.28599	0.33214	0.00484	-0.20894
549.9999	66.5144	261.0566	0.9143	0.9529	0.0016	0.3034	0.35240	0.39613	0.08131	-0.20497
549.9999	66.7661	260.0361	0.7501	0.9750	0.0007	0.2222	0.49909	0.52556	0.23559	-0.29256
549.9999	67.0113	259.0898	0.6255	0.9869	0.0000	0.1611	0.64087	0.64612	0.31791	-0.44194
549.9999	67.2446	258.2141	0.5274	0.9935	-0.0006	0.1135	0.76136	0.74563	0.45544	-0.63134
549.9999	67.4631	257.4063	0.4472	0.9970	-0.0012	0.0773	0.76213	0.74644	0.62156	-0.77847
549.9999	67.6657	256.9768	0.3538	0.9970	-0.0002	0.0969	0.82434	0.80553	0.77847	-0.87847
549.9999	67.8680	256.7950	0.2666	0.9970	-0.0004	0.0747	0.86869	0.84884	0.90594	-0.97493
549.9999	68.0680	256.6025	0.1879	0.9970	-0.0002	0.0574	0.89869	0.87884	0.95284	-0.99284
549.9999	68.2680	256.4100	0.1140	0.9970	-0.0002	0.0399	0.91869	0.89884	0.99284	-0.99284
549.9999	68.4680	256.2175	0.0472	0.9970	-0.0002	0.0224	0.93869	0.91884	0.99284	-0.99284
549.9999	68.6680	256.0250	0.0000	0.9970	-0.0002	0.0049	0.95869	0.93884	0.99284	-0.99284
549.9999	68.8680	255.8325	0.0000	0.9970	-0.0002	0.0000	0.97869	0.95884	0.99284	-0.99284
549.9999	69.0680	255.6400	0.0000	0.9970	-0.0002	0.0000	0.99869	0.97884	0.99284	-0.99284
549.9999	69.2680	255.4475	0.0000	0.9970	-0.0002	0.0000	1.01869	0.99884	0.99284	-0.99284
549.9999	69.4680	255.2550	0.0000	0.9970	-0.0002	0.0000	1.03869	1.01884	0.99284	-0.99284
549.9999	69.6680	255.0625	0.0000	0.9970	-0.0002	0.0000	1.05869	1.03884	0.99284	-0.99284
549.9999	69.8680	254.8700	0.0000	0.9970	-0.0002	0.0000	1.07869	1.05884	0.99284	-0.99284
549.9999	70.0680	254.6775	0.0000	0.9970	-0.0002	0.0000	1.09869	1.07884	0.99284	-0.99284
549.9999	70.2680	254.4850	0.0000	0.9970	-0.0002	0.0000	1.11869	1.09884	0.99284	-0.99284
549.9999	70.4680	254.2925	0.0000	0.9970	-0.0002	0.0000	1.13869	1.11884	0.99284	-0.99284
549.9999	70.6680	254.1000	0.0000	0.9970	-0.0002	0.0000	1.15869	1.13884	0.99284	-0.99284
549.9999	70.8680	253.9075	0.0000	0.9970	-0.0002	0.0000	1.17869	1.15884	0.99284	-0.99284
549.9999	71.0680	253.7150	0.0000	0.9970	-0.0002	0.0000	1.19869	1.17884	0.99284	-0.99284
549.9999	71.2680	253.5225	0.0000	0.9970	-0.0002	0.0000	1.21869	1.19884	0.99284	-0.99284
549.9999	71.4680	253.3300	0.0000	0.9970	-0.0002	0.0000	1.23869	1.21884	0.99284	-0.99284
549.9999	71.6680	253.1375	0.0000	0.9970	-0.0002	0.0000	1.25869	1.23884	0.99284	-0.99284
549.9999	71.8680	252.9450	0.0000	0.9970	-0.0002	0.0000	1.27869	1.25884	0.99284	-0.99284
549.9999	72.0680	252.7525	0.0000	0.9970	-0.0002	0.0000	1.29869	1.27884	0.99284	-0.99284
549.9999	72.2680	252.5600	0.0000	0.9970	-0.0002	0.0000	1.31869	1.29884	0.99284	-0.99284
549.9999	72.4680	252.3675	0.0000	0.9970	-0.0002	0.0000	1.33869	1.31884	0.99284	-0.99284
549.9999	72.6680	252.1750	0.0000	0.9970	-0.0002	0.0000	1.35869	1.33884	0.99284	-0.99284
549.9999	72.8680	251.9825	0.0000	0.9970	-0.0002	0.0000	1.37869	1.35884	0.99284	-0.99284
549.9999	73.0680	251.7900	0.0000	0.9970	-0.0002	0.0000	1.39869	1.37884	0.99284	-0.99284
549.9999	73.2680	251.5975	0.0000	0.9970	-0.0002	0.0000	1.41869	1.39884	0.99284	-0.99284
549.9999	73.4680	251.4050	0.0000	0.9970	-0.0002	0.0000	1.43869	1.41884	0.99284	-0.99284
549.9999	73.6680	251.2125	0.0000	0.9970	-0.0002	0.0000	1.45869	1.43884	0.99284	-0.99284
549.9999	73.8680	251.0200	0.0000	0.9970	-0.0002	0.0000	1.47869	1.45884	0.99284	-0.99284
549.9999	74.0680	250.8275	0.0000	0.9970	-0.0002	0.0000	1.49869	1.47884	0.99284	-0.99284
549.9999	74.2680	250.6350	0.0000	0.9970	-0.0002	0.0000	1.51869	1.49884	0.99284	-0.99284
549.9999	74.4680	250.4425	0.0000	0.9970	-0.					

592.8748	70.9744	273.3217	7.2008	0.5469	0.0007	0.8372	0.00993	0.02707	-0.36630	0.03551
595.7706	70.3497	271.2952	5.1892	0.6051	-0.0001	0.7961	0.07564	0.09572	-0.32655	0.10070
597.9999	69.9064	269.4506	3.7936	0.6754	0.0013	0.7375	0.10554	0.13371	-0.34351	0.13903
599.7219	69.5950	267.7747	2.8190	0.7233	0.0012	0.6906	0.16073	0.18952	-0.26884	0.19683
601.0620	69.3804	266.2526	2.1466	0.7812	0.0015	0.6243	0.15931	0.19236	-0.26168	0.19495
602.0882	69.2474	264.8413	1.6738	0.8386	0.0014	0.5447	0.15941	0.19767	-0.22284	0.18845
602.8784	69.1704	263.5319	1.3338	0.8750	0.0011	0.4842	0.15973	0.21133	-0.12728	0.18279
603.4916	69.1304	262.3234	1.0747	0.9094	0.0006	0.4160	0.10576	0.18003	-0.06798	0.11039
603.9395	69.1307	261.1956	0.8871	0.9487	0.0007	0.3161	0.03625	0.13074	-0.03365	-0.01241
604.2428	69.1699	260.1384	0.7416	0.9730	-0.0002	0.2310	0.09732	0.17418	-0.07968	-0.07324
604.4434	69.2327	259.1557	0.6288	0.9862	-0.0002	0.1657	0.26397	0.30005	-0.10384	-0.02210
604.5739	69.3074	258.2458	0.5377	0.9932	-0.0008	0.1161	0.45702	0.44976	-0.20089	0.27253
604.6563	69.3871	257.4094	0.4589	0.9970	-0.0013	0.0780	0.54024	0.52437	-0.01009	0.51253
546.5345	84.0649	288.3935	22.1805	0.1566	-0.0007	0.9877	-0.23252	-0.17356	-0.30015	-0.16367
559.1154	81.6340	286.0193	22.1202	0.2203	-0.0005	0.9754	-0.23484	-0.16851	-0.35774	-0.15822
569.4189	79.2155	283.3744	22.4747	0.2828	-0.0005	0.9592	-0.20636	-0.13454	-0.35939	-0.12151
577.6172	77.0638	280.6815	17.4008	0.3478	-0.0002	0.9376	-0.16313	-0.09632	-0.35148	-0.07825
584.0144	75.2836	278.0774	12.8931	0.4130	-0.0006	0.9107	-0.10907	-0.06348	-0.35022	-0.04258
588.9473	73.8805	275.6447	9.3463	0.4782	-0.0004	0.8783	-0.04134	-0.01938	-0.34463	-0.00257
592.7331	72.7951	273.4128	6.7435	0.5440	0.0003	0.8391	0.02162	0.03542	-0.34916	0.04400
595.6491	71.9678	271.3878	4.9216	0.6020	-0.0005	0.7985	0.08023	0.10122	-0.31694	0.10588
597.8978	71.3444	269.5417	3.6364	0.6726	0.0010	0.7400	0.10293	0.13672	-0.33967	0.14316
599.6372	70.8744	267.8611	2.7248	0.7208	0.0009	0.6931	0.14816	0.18612	-0.27686	0.19852
600.9949	70.5223	266.3340	2.0909	0.7772	0.0009	0.6293	0.13814	0.18271	-0.27284	0.19530
602.0380	70.2712	264.9160	1.6417	0.8361	0.0010	0.5486	0.10880	0.16369	-0.25473	0.17003
602.8411	70.0938	263.5972	1.3154	0.8734	0.0009	0.4871	0.07486	0.14194	-0.17477	0.13760
603.4657	69.9672	262.3787	1.0655	0.9072	0.0002	0.4207	-0.00760	0.08180	-0.12592	0.04883
603.9240	69.8943	261.2405	0.8843	0.9474	0.0004	0.3201	-0.14202	-0.02128	-0.11564	-0.10938
604.2347	69.8727	260.1717	0.7425	0.9723	0.0001	0.2337	-0.15302	-0.03289	-0.02085	-0.25292
604.4399	69.8849	259.1773	0.6321	0.9859	-0.0003	0.1672	0.02244	0.08442	-0.00680	-0.22162
604.5732	69.9166	258.2563	0.5421	0.9931	-0.0007	0.1170	0.30304	0.31046	-0.10387	0.07293
604.6569	69.9592	257.4103	0.4630	0.9969	-0.0011	0.0781	0.45546	0.43946	-0.06842	0.34802
546.3517	85.8970	288.4299	20.9376	0.1558	-0.0010	0.9878	-0.26366	-0.20255	-0.37532	-0.19103
558.9196	83.7727	286.0648	21.9951	0.2190	-0.0008	0.9757	-0.23467	-0.16911	-0.36962	-0.15780
569.2271	81.4541	283.4322	19.4687	0.2816	-0.0007	0.9595	-0.19054	-0.12184	-0.34350	-0.10728
577.4357	79.2631	280.7493	15.6793	0.3461	-0.0004	0.9382	-0.13733	-0.07705	-0.32438	-0.05633
583.8474	77.3568	278.1547	11.9240	0.4107	-0.0009	0.9118	-0.07295	-0.04244	-0.31724	-0.01928
588.7965	75.7830	275.7276	8.7957	0.4763	-0.0006	0.8793	0.00132	0.00532	-0.30965	0.02061
592.5991	74.5166	273.4990	6.4283	0.5412	0.0000	0.8409	0.06493	0.06871	-0.30908	0.07365
595.5330	73.5147	271.4764	4.7369	0.5990	-0.0009	0.8008	0.12096	0.13641	-0.27901	0.13961
597.7992	72.7309	269.6295	3.5287	0.6698	0.0006	0.7425	0.14745	0.17001	-0.29537	0.17818
599.5550	72.1165	267.9451	2.6604	0.7189	0.0006	0.6956	0.19943	0.21859	-0.23847	0.23209
600.9293	71.6369	266.4134	2.0536	0.7733	0.0003	0.6241	0.21523	0.23025	-0.23004	0.24255
601.9886	71.2752	264.9893	1.6212	0.8336	0.0006	0.5523	0.21150	0.22994	-0.21626	0.23568
602.8044	71.0027	263.6614	1.3045	0.8718	0.0006	0.4899	0.18298	0.22214	-0.14403	0.22354
603.4402	70.7937	262.4334	1.0610	0.9055	-0.0001	0.4252	0.08762	0.15896	-0.09999	0.15244
603.9086	70.6505	261.2849	0.8845	0.9461	0.0002	0.3240	-0.09681	0.01498	-0.10108	-0.01993
604.2268	70.5706	260.2048	0.7453	0.9717	-0.0001	0.2364	-0.23793	-0.13018	-0.02618	-0.24294
604.4364	70.5340	259.1988	0.6363	0.9857	-0.0004	0.1685	-0.11441	-0.07112	-0.02980	-0.30235
604.5724	70.5241	258.2667	0.5471	0.9930	-0.0007	0.1179	-0.21740	-0.20098	-0.06814	-0.03986
604.6575	70.5307	257.4113	0.4674	0.9969	-0.0013	0.0784	0.44653	0.41269	-0.09971	0.24429
546.2196	87.2258	288.4522	15.4503	0.1552	-0.0014	0.9879	-0.17763	-0.12794	-0.19899	-0.11723
558.7582	85.5378	286.1026	18.5862	0.2179	-0.0010	0.9760	-0.19736	-0.13565	-0.31686	-0.12354
569.0583	83.4242	283.4832	17.4718	0.2806	-0.0008	0.9598	-0.16963	-0.10033	-0.32043	-0.08595
577.2699	81.2720	280.8113	14.5355	0.3444	-0.0006	0.9388	-0.12492	-0.05931	-0.29836	-0.03972
583.6910	79.2957	278.2270	11.2797	0.4087	-0.0011	0.9127	-0.06926	-0.03066	-0.29132	-0.00761
588.6533	77.5908	275.8064	8.4283	0.4745	-0.0008	0.8803	-0.00371	0.00599	-0.29130	0.02365
592.4703	76.1708	273.5819	6.2176	0.5385	-0.0003	0.8426	0.05368	0.05911	-0.29771	0.06648
595.4205	75.0135	271.5622	4.6134	0.5960	-0.0013	0.8030	0.09545	0.12046	-0.28183	0.12244
597.7031	74.0826	269.7151	3.4573	0.6672	0.0002	0.7449	0.10855	0.15198	-0.31511	0.15960
599.4744	73.3332	268.0272	2.6180	0.7161	0.0003	0.6980	0.13093	0.18459	-0.28110	0.20581
600.8649	72.7330	266.4915	2.0302	0.7694	0.0002	0.6387	0.12186	0.17988	-0.28636	0.20410
601.9401	72.2657	265.0615	1.6093	0.8312	0.0003	0.5560	0.08030	0.14760	-0.31349	0.16473
602.7681	71.9018	263.7249	1.2991	0.8702	0.0004	0.4926	-0.00411	0.08804	-0.27274	0.09577
603.4148	71.6132	262.4876	1.0601	0.9030	-0.0005	0.4296	-0.14932	-0.02386	-0.23985	-0.03595
603.8933	71.4018	261.3291	0.8869	0.9448	-0.0001	0.3278	-0.33598	-0.18720	-0.27091	-0.26619
604.2188	71.2652	260.2377	0.7494	0.9710	-0.0001	0.2390	-0.39800	-0.27251	-0.21593	-0.43350
604.4330	71.1810	259.2202	0.6414	0.9855	-0.0004	0.1698	-0.15920	-0.09592	-0.21583	-0.34463
604.5715	71.1305	258.2771	0.5525	0.9929	-0.0008	0.1187	-0.17782	-0.18772	-0.06943	-0.03132
604.6582	71.1019	257.4124	0.4718	0.9969	-0.0012	0.0786	0.43318	0.40420	-0.27384	0.21585

pylon top aft of plate

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
545.9979	87.8095	228.2664	73.4441	0.0753	0.9972	-0.0026	-0.26528	-0.19788	-0.66882	-0.13638
558.2789	86.4119	230.1908	54.4840	0.1576	0.9876	-0.0006	-0.23629	-0.17182	-0.70698	-0.08755
568.4683	84.4716	232.4404	38.9483	0.2228	0.9749	-0.0004	-0.2157	-0.15467	-0.67384	-0.06002
576.6405	82.3940	234.7827	27.1004	0.2751	0.9614	-0.0011	-0.14344	-0.09670	-0.54344	-0.00526
583.0624	80.4205	237.0826	18.5943	0.3162	0.9484	-0.0015	-0.08408	-0.04268	-0.43312	-0.03709
588.0476	78.7255	239.2894	12.7105	0.3481	0.9375	-0.0018	-0.03802	-0.00003	-0.34925	-0.06552
591.9005	77.1862	241.2894	8.7405	0.3730	0.9278	-0.0018	-0.00900	-0.04285	-0.27943	-0.09571
594.8912	75.3527	243.1437	6.0903	0.3898	0.9209	-0.0014	0.05641	-0.08670	-0.22250	-0.12872
597.2170	74.3438	244.8518	4.2966	0.4051	0.9143	-0.0031	0.08931	-0.11800	-0.18981	-0.15168
599.0348	74.1188	246.4242	3.0634	0.4182	0.9083	-0.0034	0.12101	-0.14767	-0.15815	-0.17644
600.4702	73.4469	247.8631	2.2133	0.4255	0.9049	-0.0025	0.14792	-0.17312	-0.13955	-0.20061
601.5916	72.9131	249.2087	1.6092	0.4316	0.9021	-0.0008	0.16718	-0.19190	-0.13705	-0.22123
601.4689	72.4878	250.4760	1.1741	0.4416	0.8972	-0.0006	0.19321	-0.21704	-0.13511	-0.25106
603.1636	72.1424	251.6568	0.8459	0.4517	0.8922	-0.0006	0.22789	-0.24940	-0.14117	-0.29194
603.6888	71.8774	252.7670	0.5977	0.4548	0.8906	-0.0024	0.26839	-0.28599	-0.17880	-0.33870
604.0621	71.6891	253.8209	0.4037	0.4516	0.8922	-0.0004	0.31976	-0.33171	-0.19675	-0.39262
604.3241	71.5574	254.8129	0.2521	0.4456	0.8953	-0.0005	0.37753	-0.38036	-0.20974	-0.43808
604.5088	71.4644	255.7392	0.1324	0.4450	0.8956	-0.0016	0.42706	-0.42036	-0.15756	-0.46466
604.6383	71.3975	256.5922	0.0385	0.4478	0.8942	-0.0035	0.49223	-0.47758	-0.21655	-0.45160
545.7231	87.8423	233.8326	72.7780	0.0733	0.9973	-0.0018	-0.24038	-0.17874	-0.66652	-0.08518
557.5414	86.5338	235.0736	57.5789	0.1530	0.9882	-0.0016	-0.18139	-0.12717	-0.72149	-0.02421
567.4364	84.7054	236.6692	43.4304	0.2165	0.9763	-0.0010	-0.11772	-0.07921	-0.5841	-0.06607
575.4548	82.7274	238.4007	31.7903	0.2680	0.9634	-0.0003	-0.0668	-0.01943	-0.37282	-0.09067
581.8199	80.8269	240.1535	22.8516	0.3088	0.9511	-0.0002	0.01265	-0.03898	-0.32258	-0.09916
586.8115	79.1235	241.8580	16.2961	0.3409	0.9401	-0.0002	0.03112	-0.05801	-0.28256	-0.10857
590.7106	77.6575	243.4746	11.6446	0.3681	0.9299	-0.0001	0.05540	-0.08216	-0.24427	-0.12368
593.7658	76.4240	244.9818	8.3887	0.3896	0.9167	-0.0004	0.07656	-0.10424	-0.21622	-0.13715
596.1692	75.4013	246.3898	4.9286	0.4133	0.9106	-0.0008	0.10140	-0.12916	-0.18797	-0.15567
598.0745	74.5846	247.7040	3.3042	0.4228	0.9062	-0.0014	0.12982	-0.15699	-0.16820	-0.17952
599.5965	73.8539	248.9223	2.4550	0.4268	0.9043	-0.0020	0.15944	-0.18529	-0.15960	-0.20720
600.8097	72.8511	250.0708	1.8313	0.4355	0.9002	-0.0034	0.18939	-0.21354	-0.15403	-0.23843
601.7880	72.4355	252.1943	1.3408	0.4462	0.8950	-0.0015	0.22767	-0.24886	-0.14065	-0.28017
603.3049	72.1235	253.1704	0.9587	0.4512	0.8924	-0.0003	0.27401	-0.29051	-0.13138	-0.32988
603.6850	71.8795	254.1066	0.6566	0.4517	0.8922	-0.0026	0.32771	-0.33789	-0.12769	-0.38429
604.0583	71.6898	255.0006	0.4132	0.4471	0.8945	-0.0007	0.38879	-0.38987	-0.17801	-0.43346
604.3537	71.5417	255.8445	0.2171	0.4469	0.8946	-0.0004	0.44082	-0.43574	-0.15945	-0.47387
604.5879	71.4227	256.6259	0.0626	0.4504	0.8928	-0.0029	0.51302	-0.49133	-0.21140	-0.46858
545.5417	87.8642	239.5533	71.7991	0.0718	0.9974	-0.0012	-0.29398	-0.22397	-0.84950	-0.11001
556.9553	86.6322	240.3485	57.5742	0.1492	0.9888	-0.0016	-0.26390	-0.19664	-0.79007	-0.05413
566.4685	84.9225	241.4255	44.6205	0.2103	0.9776	-0.0013	-0.19870	-0.14633	-0.79007	-0.01581
574.2367	83.0645	242.6269	33.6146	0.2602	0.9656	-0.0010	-0.11470	-0.07255	-0.55805	-0.04719
580.4712	81.2608	243.8711	24.8300	0.3002	0.9539	-0.0010	-0.05367	-0.01488	-0.40693	-0.06660
585.4221	79.6222	245.1060	18.1495	0.3321	0.9432	-0.0013	0.01831	-0.01939	-0.37765	-0.08423
589.3423	78.1909	246.2996	13.2459	0.3572	0.9340	-0.0013	0.04024	-0.04632	-0.37739	-0.10209
592.4551	76.9658	247.4335	9.6972	0.3781	0.9258	-0.0011	0.05707	-0.07103	-0.34119	-0.12107
594.9413	75.9316	248.5083	7.1450	0.3921	0.9197	-0.0005	0.06461	-0.09653	-0.31122	-0.14052
596.9447	75.0620	249.5254	5.0339	0.4063	0.9134	-0.0007	0.09103	-0.12098	-0.28277	-0.16494
598.5692	74.3281	250.4824	3.3274	0.4182	0.9084	-0.0032	0.12102	-0.14881	-0.25468	-0.19541
599.8947	73.7170	251.3845	2.2272	0.4279	0.9038	-0.0034	0.15541	-0.18042	-0.22284	-0.22284
600.9905	73.2072	252.2393	1.5841	0.4389	0.8985	-0.0002	0.18330	-0.20649	-0.16703	-0.25504
601.8982	72.7729	253.0939	1.1217	0.4462	0.8949	-0.0027	0.21889	-0.23914	-0.15862	-0.30297
602.6474	72.4057	253.8846	0.7619	0.4505	0.8928	-0.0044	0.26326	-0.27893	-0.15332	-0.34934
603.2471	71.9886	254.6453	0.4749	0.4475	0.8943	-0.0001	0.31210	-0.32198	-0.16700	-0.39351
604.7155	71.6310	255.3741	0.2461	0.4485	0.8938	-0.0010	0.36919	-0.37075	-0.14768	-0.42764
604.5304	71.4517	256.0627	0.0695	0.4532	0.8914	-0.0016	0.41867	-0.41434	-0.17602	-0.40895
545.4229	87.8787	245.3448	70.8895	0.0708	0.9975	-0.0008	-0.31527	-0.24427	-0.97888	-0.10741
556.5295	86.7036	246.8236	56.5242	0.1464	0.9892	-0.0011	-0.30083	-0.22937	-0.91262	-0.05769
565.7042	85.0907	247.4877	44.2910	0.2052	0.9787	-0.0009	-0.22775	-0.17166	-0.90094	-0.03597
573.2260	83.3376	248.2398	33.8805	0.2535	0.9673	-0.0006	-0.13569	-0.08862	-0.59806	-0.02366
579.3151	81.6234	248.0298	25.4231	0.2925	0.9563	-0.0004	-0.06905	-0.02388	-0.40341	-0.05058
584.2049	80.0484	248.8256	18.8606	0.3240	0.9461	-0.0004	0.02947	-0.01516	-0.29308	-0.06955
588.1262	78.6536	249.6065	13.9390	0.3490	0.9378	-0.0003	0.04024	-0.02423	-0.25913	-0.08640
591.2818	77.4410	250.3601	10.3014	0.3707	0.9288	-0.0008	0.0362	-0.06356	-0.22740	-0.10427
593.8394	76.3996	251.0843	7.6347	0.3851	0.9205	-0.0003	0.04965	-0.08626	-0.20099	-0.12222
595.3919	75.5093	251.7783	5.6688	0.4126	0.9109	-0.0002	0.07514	-0.10868	-0.18161	-0.14519
597.5555	74.7449	252.4400	4.1588	0.4126	0.9109	-0.0002	0.10531	-0.13566	-0.16801	-0.17477
599.0881	74.0940	253.0750	2.8503	0.4158	0.9095	-0.0025	0.14147	-0.16801	-0.15945	-0.20251
600.2932	73.5387	253.6855	2.2850	0.4233	0.9060	-0.0008	0.17272	-0.19633	-0.15686	-0.23953
601.3090	73.0566	254.2716	1.6400	0.4340	0.9009	-0.0031	0.21284	-0.23227	-0.15006	-0.28370
602.1627	72.6387	254.8312	1.1408	0.4420	0.8970	-0.0048	0.26106	-0.27497	-0.14540	-0.33103
603.8845	72.2779	255.3681	0.7587	0.4478	0.8941	-0.0034	0.31363	-0.32104	-0.14062	-0.37727
604.4856	71.9681	255.8797	0.4618	0.4470	0.8945	-0.0016	0.37375	-0.37246	-0.15680	-0.41648
604.3344	71.7025	256.3588	0.2329	0.4497	0.8932	-0.0023	0.42410	-0.41719	-0.15118	-0.41200
545.3540	87.8871	251.1664	70.2674	0.0702	0.9975	-0.0004	-0.32312	-0.25679	-0.97178	-0.10373
556.2710	86.7466	251.3929	55.5680	0.1448	0.9895	-0.0006	-0.32690	-0.25617	-0.91262	-0.06507
565.2228	85.1944	251.7099	43.6841	0.2020	0.9794	-0.0004	-0.25527	-0.19870	-0.98950	-0.02616
572.5732	83.5096	252.0711	33.6549	0.2492	0.9685	-0.0002	-0.16168	-0.11103	-0.63426	-0.02619
578.5554	81.8554	252.4535	25.4619	0.2876	0.9578	-0.0000	-0.09117	-0.03941	-0.40586	-0.03577
583.3950	80.3245	252.8420	19.0434	0.3187	0.9479	-0.0001	0.04701	-0.03532	-0.24949	-0.05744
587.3100	78.9561	253.2269	14.1715	0.3437	0.9391	-0.0002	0.08620	-0.05704	-0.22160	-0.07528
590.4912	77.7544	253.6021	10.5280	0.3650	0.9310	-0.0001	0.03481	-0.07823	-0.20100	-0.09197
593.0964	76.7101	253.9663	7.8243	0.3894	0.9216	-0.0001	0.06205	-0.10049	-0.18521	-0.10933
595.2503	75.8055	254.3185	5.8094	0.4076	0.9132	-0.0005	0.09374	-0.12713	-0.17382	-0.13109
597.0450	75.0204	254.6573	4.2347	0.4138	0.9104	-0.0010	0.12918	-0.15746	-0.16554	-0.15750
598.5541	74.3413	254.9849	2.9446	0.4229	0.9062	-0.0017	0.16380	-0.18743	-0.16119	-0.18525
599.8361	73.7613	255.3044	2.6260	0.4322	0.9018	-0.0042	0.20663	-0.22448	-0.15632	-0.22100
600.9291	73.2815	255.5951	1.1135	0.4390	0.8985	-0.0035	0.25450	-0.26577	-0.15566	-0.26078
601.8622	72.8688	255.8729	0.7259	0.4442	0.8959	-0.0001	0.30561	-0.30945	-0.15428	-0.30184
603.6826	72.4030	256.1357	0.4319	0.4463	0.8949	-0.0033	0.36138	-0.35636	-0.16058	-0.34028
603.9536	71.7441	256.6791	0.2124	0.4503	0.8929	-0.0029	0.41381	-0.39968	-0.15240	-0.37163
604.4606	71.4873	256.8972	0.							

587.0250	79.0599	256.9989	14.2204	0.3420	0.9397	0.0000	-0.02192	0.03486	-0.25760	0.05459
590.2146	77.8627	256.9988	10.5821	0.3628	0.9319	0.0000	0.00111	0.05567	-0.23330	0.07226
592.8365	76.8177	256.9989	7.8709	0.3791	0.9253	0.0000	0.02549	0.07463	-0.21495	0.08673
595.0122	75.9080	256.9989	5.8430	0.3936	0.9193	0.0000	0.05295	0.09549	-0.19976	0.10200
596.8325	75.1158	256.9989	4.3124	0.4054	0.9141	0.0000	0.08433	0.12026	-0.18785	0.12086
598.3693	74.4264	256.9989	3.1615	0.4138	0.9104	0.0000	0.11920	0.14872	-0.17764	0.14425
599.6789	73.8231	256.9989	2.2893	0.4239	0.9057	0.0000	0.15598	0.17928	-0.17086	0.17082
600.7998	73.2926	256.9989	1.6142	0.4322	0.9018	0.0000	0.19860	0.21499	-0.16436	0.20259
601.7615	72.8284	256.9989	1.0987	0.4376	0.8992	0.0000	0.24514	0.25384	-0.16199	0.23642
602.5908	72.4227	256.9989	0.7105	0.4417	0.8972	-0.0001	0.29628	0.29612	-0.15713	0.27223
603.3087	72.0675	256.9989	0.4189	0.4455	0.8953	-0.0001	0.35611	0.34444	-0.15784	0.30895
603.9284	71.7573	256.9989	0.2039	0.4501	0.8930	0.0000	0.41470	0.39282	-0.14787	0.34405
604.4529	71.4912	256.9990	0.0539	0.4552	0.8904	0.0000	0.51747	0.46130	-0.17319	0.34935
545.3541	87.8877	262.8315	70.2679	0.0702	0.9975	0.0004	-0.27936	-0.22696	-1.15990	-0.05735
556.2711	86.7467	262.6050	55.5678	0.1448	0.9895	0.0005	-0.31189	-0.25391	-1.37832	-0.04355
555.2228	85.1944	262.2880	45.3339	0.2020	0.9794	0.0004	-0.25072	-0.19843	-1.07774	-0.04172
572.5732	83.5096	261.5443	35.6554	0.2492	0.9684	0.0002	-0.16397	-0.11821	-0.68844	-0.01971
576.3554	81.8553	261.1458	25.4620	0.2876	0.9584	0.0000	-0.09412	-0.04874	-0.44143	-0.00763
582.3500	80.3245	260.7709	19.0431	0.3186	0.9479	-0.0001	-0.04925	-0.00296	-0.32944	-0.03376
590.4912	77.7545	260.3956	14.1717	0.3437	0.9391	-0.0002	-0.02101	0.03674	-0.28283	-0.05641
593.0965	76.7101	260.0315	10.5287	0.3650	0.9310	-0.0001	-0.00005	0.05800	-0.25858	-0.07364
595.2503	75.8055	259.6793	7.8242	0.3807	0.9247	0.0004	0.02369	0.07625	-0.23987	-0.08710
597.0448	75.0204	259.3405	5.8094	0.3951	0.9186	0.0001	0.05065	0.09570	-0.22368	-0.10080
598.5540	74.3413	259.0132	4.2924	0.4076	0.9132	0.0005	0.08014	0.11783	-0.21002	-0.11689
599.8361	73.7513	258.6970	3.1549	0.4139	0.9103	0.0010	0.11307	0.14370	-0.19687	-0.13710
600.9291	73.2339	258.3934	2.2947	0.4229	0.9062	-0.0017	0.14640	0.17024	-0.18803	-0.15846
601.8621	72.7815	258.1028	1.6261	0.4322	0.9018	-0.0042	0.18292	0.19930	-0.17809	-0.18118
602.6632	72.3869	257.8250	1.1137	0.4389	0.8985	-0.0036	0.22377	0.23141	-0.17140	-0.20487
603.3556	72.0431	257.5623	0.7258	0.4441	0.8960	-0.0001	0.27308	0.26980	-0.16217	-0.23191
603.9535	71.7441	257.3188	0.4318	0.4465	0.8948	0.0034	0.33413	0.31763	-0.15711	-0.26422
604.4606	71.4873	257.1007	0.2124	0.4503	0.8929	0.0030	0.41014	0.37831	-0.15006	-0.30595
545.4229	87.8788	268.6531	0.0567	0.4554	0.8903	0.0011	0.49638	0.44826	-0.14933	-0.31090
556.5296	86.7038	268.1743	70.8902	0.0708	0.9975	0.0008	-0.22580	-0.19955	-1.11931	-0.06160
555.2228	85.1944	267.1402	56.5243	0.1464	0.9892	0.0011	-0.25899	-0.22332	-1.31574	-0.04701
572.5732	83.5096	266.7581	44.2912	0.2052	0.9787	0.0009	-0.20176	-0.14984	-1.03766	-0.02538
576.3554	81.8553	266.3806	33.8806	0.2535	0.9673	0.0006	-0.13338	-0.06048	-0.67634	-0.02509
582.3500	80.3245	265.9680	25.4233	0.2926	0.9562	0.0005	-0.08165	-0.00473	-0.44806	-0.06579
588.3546	78.7545	265.1722	18.8611	0.3240	0.9461	0.0004	-0.04429	0.02506	-0.34431	-0.07753
590.4912	77.7545	264.3913	13.9390	0.3490	0.9371	0.0004	-0.01828	0.04732	-0.29986	-0.07959
593.0965	76.7101	263.6378	10.3014	0.3707	0.9288	0.0000	-0.00168	0.06502	-0.27655	-0.08511
595.2503	75.8055	262.9136	7.6347	0.3852	0.9228	0.0008	0.02549	0.08176	-0.25721	-0.09430
597.0448	75.0204	262.2195	5.6687	0.3995	0.9167	0.0003	0.05217	0.09961	-0.23986	-0.10650
598.5540	74.3413	261.5578	4.1988	0.4126	0.9109	-0.0002	0.07972	0.11901	-0.22479	-0.12001
599.8361	73.7513	260.9229	2.7064	0.4233	0.9095	0.0008	0.10728	0.13991	-0.20630	-0.13491
600.9291	73.2339	260.3164	2.2832	0.4338	0.9060	0.0008	0.13226	0.15916	-0.19487	-0.14787
601.8621	72.7815	259.7164	1.6398	0.4340	0.9009	-0.0032	0.15832	0.17863	-0.18075	-0.15888
602.6632	72.3869	259.1668	1.1409	0.4419	0.8970	-0.0048	0.19024	0.20121	-0.16889	-0.16941
603.3556	72.0431	258.6298	0.7587	0.4477	0.8942	-0.0033	0.23549	0.23369	-0.15406	-0.18779
603.9535	71.7441	258.1182	0.4619	0.4472	0.8944	0.0015	0.30362	0.28416	-0.14709	-0.21802
604.4606	71.4873	257.6391	0.2330	0.4495	0.8933	0.0023	0.39125	0.35395	-0.13232	-0.27299
545.4229	87.8788	257.2039	0.0638	0.4547	0.8906	-0.0001	0.53572	0.46051	-0.18499	-0.32078
556.5296	86.7038	274.4446	71.8002	0.0718	0.9974	0.0013	-0.20806	-0.19779	-0.98034	-0.09507
555.2228	85.1944	273.6495	57.5730	0.1492	0.9888	0.0016	-0.22643	-0.20825	-1.13113	-0.07472
572.5732	83.5096	272.5725	44.6208	0.2103	0.9776	0.0013	-0.15118	-0.13599	-0.89846	-0.04707
576.3554	81.8553	271.3710	33.6151	0.2602	0.9656	0.0010	-0.07018	-0.03518	-0.60086	-0.00624
582.3500	80.3245	270.1268	24.8303	0.3002	0.9539	0.0010	-0.03577	0.04713	-0.41816	-0.07418
588.3546	78.7545	268.8919	18.1492	0.3321	0.9433	0.0010	-0.02076	0.08608	-0.33673	-0.12554
590.4912	77.7545	267.6982	13.2460	0.3572	0.9340	0.0013	-0.00349	0.09207	-0.30124	-0.13873
593.0965	76.7101	266.5644	9.6970	0.3781	0.9258	0.0005	-0.01732	0.09558	-0.28132	-0.13237
595.2503	75.8055	265.4896	7.1451	0.3922	0.9199	0.0011	0.04276	0.10576	-0.26359	-0.13068
597.0448	75.0204	264.4724	5.2939	0.4063	0.9138	0.0005	0.06921	0.12081	-0.24618	-0.13774
598.5540	74.3413	263.5155	3.9261	0.4182	0.9094	-0.0007	0.09320	0.13667	-0.22987	-0.14608
599.8361	73.7513	262.6050	2.7277	0.4287	0.9074	-0.0002	0.11442	0.15247	-0.20867	-0.15526
600.9291	73.2339	261.7334	1.762	0.4379	0.9038	0.0034	0.12443	0.15547	-0.19553	-0.15187
601.8621	72.7815	260.9040	1.1584	0.4428	0.8985	-0.0002	0.12886	0.15847	-0.17958	-0.14407
602.6632	72.3869	260.1133	0.7619	0.4462	0.8949	-0.0027	0.13786	0.15958	-0.16557	-0.12942
603.3556	72.0431	259.3527	0.4505	0.4505	0.8928	-0.0043	0.17216	0.17757	-0.14849	-0.12519
603.9535	71.7441	258.6239	0.2461	0.4477	0.8942	-0.0002	0.24700	0.23021	-0.14144	-0.15396
604.4606	71.4873	257.9352	0.0695	0.4486	0.8937	0.0011	0.36990	0.33350	-0.12847	-0.23682
545.4229	87.8788	257.3006	0.0695	0.4533	0.8914	-0.0014	0.49513	0.44609	-0.15016	-0.29900
556.5296	86.7038	280.1653	72.7779	0.0732	0.9973	0.0018	-0.21807	-0.18765	-0.74804	-0.10832
555.2228	85.1944	278.9243	57.5789	0.1530	0.9882	0.0017	-0.21656	-0.17714	-0.84038	-0.07358
572.5732	83.5096	277.3288	43.4312	0.2165	0.9763	0.0010	-0.14777	-0.12226	-0.66464	-0.04156
576.3554	81.8553	275.5973	31.7901	0.2680	0.9634	0.0005	-0.04775	-0.05391	-0.45226	-0.00625
582.3500	80.3245	273.8444	22.8523	0.3088	0.9511	0.0003	-0.01704	0.01978	-0.33305	-0.03073
588.3546	78.7545	272.1399	16.2962	0.3409	0.9401	0.0002	0.02646	0.09939	-0.28407	-0.09357
590.4912	77.7545	270.5233	11.6451	0.3661	0.9306	0.0004	0.02530	0.14037	-0.26432	-0.15876
593.0965	76.7101	269.0161	8.3856	0.3850	0.9229	0.0000	0.04004	0.14129	-0.25044	-0.18399
595.2503	75.8055	267.6081	6.0989	0.3996	0.9167	-0.0004	0.06706	0.13948	-0.24238	-0.17849
597.0448	75.0204	266.2939	4.4752	0.4133	0.9106	-0.0009	0.09469	0.14884	-0.22801	-0.17764
598.5540	74.3413	265.0757	3.3046	0.4228	0.9062	-0.0014	0.11643	0.16007	-0.21416	-0.17792
599.8361	73.7513	263.9272	2.4553	0.4268	0.9043	0.0020	0.12725	0.16623	-0.19872	-0.17790
600.9291	73.2339	262.8340	1.8313	0.4354	0.9002	0.0034	0.12352	0.16307	-0.18410	-0.16573
601.8621	72.7815	261.8037	1.3410	0.4461	0.8950	0.0014	0.10652	0.14818	-0.16404	-0.13891
602.6632	72.3869	260.8275	0.9587	0.4512	0.8924	0.0003	0.08909	0.12731	-0.14774	-0.09764
603.3556	72.0431	259.8913	0.6566	0.4517	0.8925	-0.0025	0.09799	0.12268	-0.12254	-0.07119
603.9535	71.7441	258.9974	0.4132	0.4471	0.8945	-0.0008	0.17491	0.18509	-0.11832	-0.08147
604.4606	71.4873	258.1534	0.2172	0.4467	0.8947	-0.0005	0.32966	0.28039	-0.08919	-0.18465
545.4229	87.8788	285.7315	0.0626	0.4502	0.8929	-0.0030	0.54125	0.45775	-0.20011	-0.30683
556.5296	86.7038	283.8071	73.4446	0.0753	0.9972	0.0027	-0.24104	-0.17859	-0.59843	-0.13985
555.2228	85.1944	281.5576	54.4843	0.1576	0.9875	0.0007	-0.21000	-0.14071	-0.62976	-0.08886
572.5732	83.5096	279.2153	38.9483	0.2228	0.9749	-0.0004	-0.16077	-0.08671	-0.52160	-0.0396

604.5088	71.4644	258.2587	0.1324	0.4448	0.8956	-0.0016	0.33302	0.30751	-0.08635	0.18491
604.6383	71.3975	257.4057	0.0385	0.4478	0.8941	-0.0035	0.48977	0.45239	-0.14052	0.31434

plate bottom lower

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
385.9609	82.4126	217.8186	8.3283	0.1564	-0.9877	0.0000	-0.19801	-0.11300	0.45957	0.06584
387.8985	82.7258	217.3028	9.6736	0.1647	-0.9863	0.0043	0.10807	0.16179	0.38586	0.24539
389.7552	83.0078	216.1161	8.9212	0.1340	-0.9910	-0.0021	0.18839	0.28446	0.48730	0.30984
392.1973	83.1760	214.1534	16.4212	0.0338	-0.9994	0.0021	0.24539	0.32738	0.61137	0.33978
394.8946	83.2657	211.9948	10.9266	0.0349	-0.9994	0.0000	0.13424	0.23005	0.51811	0.19752
396.8249	83.3331	210.5386	7.6188	0.0349	-0.9994	0.0000	0.12478	0.21978	0.55995	0.16887
398.2550	83.3831	209.5458	5.5178	0.0349	-0.9994	0.0000	0.12264	0.22102	0.56050	0.15701
399.3325	83.4207	208.8768	4.1605	0.0349	-0.9994	0.0000	0.11506	0.21687	0.56409	0.14241
400.1663	83.4498	208.4454	3.3097	0.0349	-0.9994	0.0000	0.11020	0.21332	0.56134	0.13001
400.8302	83.4730	208.1575	2.7637	0.0349	-0.9994	0.0000	0.10743	0.21185	0.56076	0.12379
401.4498	83.4947	207.8707	3.1957	0.0349	-0.9994	0.0000	0.10490	0.21071	0.55991	0.11918
402.1217	83.5181	207.5155	3.5321	0.0349	-0.9994	0.0000	0.10030	0.20765	0.55792	0.11149
402.8454	83.5434	207.1102	3.8404	0.0349	-0.9994	0.0000	0.09521	0.20375	0.55587	0.10208
403.6298	83.5708	206.6657	4.1635	0.0349	-0.9994	0.0000	0.08943	0.19892	0.55251	0.09118
404.4898	83.6003	206.1857	4.5456	0.0349	-0.9994	0.0000	0.08302	0.19390	0.54846	0.07836
405.4442	83.6341	205.6687	5.0018	0.0349	-0.9994	0.0000	0.07571	0.18591	0.54306	0.06407
406.5224	83.6715	205.1069	5.6274	0.0349	-0.9994	0.0000	0.06695	0.17671	0.53537	0.04801
407.7053	83.7151	204.4904	6.3884	0.0349	-0.9994	0.0000	0.05706	0.16612	0.52712	0.03021
409.2034	83.7655	203.8071	7.4159	0.0349	-0.9994	0.0000	0.04514	0.15276	0.51739	0.00918
410.9237	83.8254	203.0439	8.7364	0.0349	-0.9994	0.0000	0.03317	0.13821	0.51145	-0.01393
412.9940	83.8978	202.2028	10.3693	0.0349	-0.9994	0.0000	0.02021	0.11921	0.49754	-0.04251
415.5306	83.9863	201.3058	12.5099	0.0349	-0.9994	0.0000	0.00961	0.09915	0.48265	-0.07244
418.7141	84.0975	200.4059	15.3644	0.0349	-0.9994	0.0000	-0.00993	0.06772	0.43506	-0.11586
422.7459	84.2383	199.5855	18.7911	0.0349	-0.9994	0.0000	-0.03499	0.02965	0.40836	-0.16819
427.8429	84.4163	199.0494	22.6468	0.0349	-0.9994	0.0000	-0.08256	0.04460	0.36558	-0.24758
434.2447	84.6399	198.8538	27.0593	0.0349	-0.9994	0.0000	-0.12426	0.11907	0.35219	-0.30184
442.1165	84.9148	198.7779	31.5179	0.0349	-0.9994	0.0000	-0.14025	0.15359	0.36242	-0.29656
451.5075	85.2427	198.7051	35.5711	0.0349	-0.9994	0.0000	-0.14034	0.14833	0.34748	-0.25939
462.3198	85.6203	198.6361	38.6274	0.0349	-0.9994	0.0000	-0.13078	0.11951	0.30268	-0.20125
474.2533	86.0370	198.5741	40.1719	0.0349	-0.9994	0.0000	-0.11756	0.08354	0.24738	-0.13857
486.8060	86.4753	198.5225	39.8988	0.0349	-0.9994	0.0000	-0.10959	0.05709	0.18403	-0.10051
499.3655	86.9140	198.4739	37.7373	0.0349	-0.9994	0.0000	-0.11989	0.05751	0.07942	-0.09953
509.6034	87.2715	198.3242	22.5367	0.0349	-0.9994	0.0000	-0.12302	0.08501	0.11701	-0.11114
533.0700	87.9547	198.8530	14.2120	0.1564	-0.9877	0.0000	-0.16946	0.08549	0.36657	0.05729
569.0531	88.4338	222.0912	11.4913	0.1603	-0.9871	-0.0005	0.20583	0.25629	0.33540	0.33193
588.9658	88.8897	220.9321	9.4873	0.1492	-0.9888	0.0029	0.37012	0.47807	0.35580	0.42697
592.1607	83.1614	218.7207	14.7776	0.0337	-0.9994	-0.0080	0.37389	0.46796	0.47738	0.42176
595.2326	83.2777	216.3162	10.1835	0.0348	-0.9994	0.0001	0.23192	0.33681	0.32828	0.24879
597.2764	83.3489	214.7159	7.3683	0.0349	-0.9994	0.0000	0.19352	0.29594	0.34360	0.18573
598.7501	83.4004	213.6865	5.5579	0.0349	-0.9994	0.0000	0.18455	0.28799	0.34014	0.16723
599.8658	83.4394	212.0636	4.4147	0.0349	-0.9994	0.0000	0.16733	0.27290	0.33448	0.14449
600.7645	83.4707	212.7465	3.8052	0.0349	-0.9994	0.0000	0.15853	0.26384	0.32965	0.12928
601.5232	83.4972	212.5950	3.3171	0.0349	-0.9994	0.0000	0.15311	0.25904	0.32115	0.11829
602.2730	83.5234	212.0262	3.3666	0.0349	-0.9994	0.0000	0.14694	0.25294	0.31468	0.10640
603.1094	83.5526	212.0875	4.3650	0.0349	-0.9994	0.0000	0.13619	0.24231	0.30755	0.09022
604.0038	83.5838	211.5543	4.6813	0.0348	-0.9994	0.0000	0.12396	0.22973	0.30047	0.07180
604.9477	83.6168	211.0129	4.9544	0.0349	-0.9994	0.0000	0.11061	0.21580	0.29247	0.05213
605.9469	83.6517	210.4280	5.2511	0.0349	-0.9994	0.0000	0.09667	0.20096	0.28407	0.03164
607.0182	83.6891	209.8113	5.6098	0.0349	-0.9994	0.0000	0.08184	0.18499	0.27394	0.00989
608.1889	83.7300	209.1625	6.1102	0.0349	-0.9994	0.0000	0.06602	0.16748	0.26157	-0.01377
609.4938	83.7755	208.4753	6.7464	0.0349	-0.9994	0.0000	0.04919	0.14831	0.24820	-0.03922
610.9776	83.8273	207.7406	7.6112	0.0349	-0.9994	0.0000	0.03030	0.12599	0.23313	-0.06780
612.7001	83.8875	206.9487	8.7321	0.0349	-0.9994	0.0000	0.00962	0.10086	0.21774	-0.09888
614.7340	83.9585	206.1007	10.1414	0.0349	-0.9994	0.0000	-0.01523	0.07047	0.19066	-0.13481
617.1840	84.0441	205.2122	11.9872	0.0349	-0.9994	0.0000	-0.04323	0.03621	0.15050	-0.17392
620.2157	84.1500	204.3197	14.4519	0.0349	-0.9994	0.0000	-0.07843	0.00820	0.09340	-0.22354
624.0309	84.2832	203.4874	17.4160	0.0349	-0.9994	0.0000	-0.11596	0.05961	0.06420	-0.27920
628.8910	84.4529	202.8636	20.8025	0.0349	-0.9994	0.0000	-0.15979	0.12470	0.07546	-0.34555
635.1098	84.6701	202.4929	24.6095	0.0349	-0.9994	0.0000	-0.19471	0.18927	0.12735	-0.39609
642.8990	84.9421	202.2226	28.2012	0.0349	-0.9994	0.0000	-0.20775	0.22697	0.16963	-0.38575
652.3069	85.2706	201.9665	31.1573	0.0349	-0.9994	0.0000	-0.19699	0.22175	0.15678	-0.31793
663.2139	85.6515	201.7299	33.0769	0.0349	-0.9994	0.0000	-0.16998	0.18090	0.09395	-0.21448
675.2861	86.0731	201.5259	33.7154	0.0349	-0.9994	0.0000	-0.14209	0.13167	0.01014	-0.12998
687.9909	86.5138	201.3643	33.0434	0.0349	-0.9994	0.0000	-0.12442	0.09370	0.01558	-0.09261
500.6825	86.9600	201.2218	33.0446	0.0349	-0.9994	0.0000	-0.10405	0.06875	0.01830	-0.09431
511.5203	87.3368	201.0948	13.3330	0.0349	-0.9994	0.0000	-0.13330	0.12647	0.13009	-0.11536
520.7122	87.7320	200.9197	13.7610	0.1564	-0.9877	0.0000	-0.23749	0.13449	0.27280	0.01118
530.4152	88.1572	200.6551	14.7492	0.1566	-0.9877	-0.0001	0.12559	0.18421	0.31624	0.27883
537.2622	88.6316	200.3249	11.9813	0.1648	-0.9863	0.0032	0.35818	0.45836	0.33938	0.43344
591.0410	83.0608	223.3514	16.2525	0.0674	-0.9977	-0.0089	0.41099	0.50842	0.47438	0.46993
594.5096	83.2577	221.0667	11.2105	0.0318	-0.9995	0.0014	0.35550	0.46249	0.42001	0.37448
596.7637	83.3310	219.4771	8.1637	0.0349	-0.9994	0.0000	0.26390	0.37152	0.36852	0.25962
598.3391	83.3860	218.4762	6.1972	0.0349	-0.9994	0.0000	0.26374	0.37058	0.38342	0.24464
599.5063	83.4268	217.9135	4.9788	0.0349	-0.9994	0.0000	0.24184	0.35144	0.36961	0.21604
600.4364	83.4592	217.6817	4.3919	0.0349	-0.9994	0.0000	0.23306	0.34257	0.36916	0.19964
601.2424	83.4874	217.6201	4.0355	0.0348	-0.9994	0.0000	0.22799	0.33853	0.36673	0.18886
602.1047	83.5175	217.4620	4.9673	0.0349	-0.9994	0.0000	0.22074	0.33172	0.36544	0.17546
603.1271	83.5532	217.0738	5.5463	0.0349	-0.9994	0.0000	0.20577	0.31767	0.35978	0.15366
604.2484	83.5923	216.4995	5.8787	0.0349	-0.9994	0.0000	0.18717	0.29944	0.35292	0.12724
605.4297	83.6336	215.8065	6.0768	0.0349	-0.9994	0.0000	0.16628	0.27868	0.34474	0.09872
606.6568	83.6764	215.0508	6.2440	0.0349	-0.9994	0.0000	0.14450	0.25664	0.33624	0.06947
607.9351	83.7211	214.2654	6.4489	0.0349	-0.9994	0.0000	0.12215	0.23370	0.32702	0.03972
609.2861	83.7683	213.4624	6.7721	0.0349	-0.9994	0.0000	0.09928	0.20978	0.31687	0.00931
610.7422	83.8191	212.6416	7.2283	0.0349	-0.9994	0.0000	0.07561	0.18460	0.30660	-0.02206
612.3462	83.8751	211.7963	7.8936	0.0349	-0.9994	0.0000	0.05072	0.15706	0.29537	-0.05772
614.1550	83.9363	210.9183	8.7581	0.0349	-0.9994	0.0000	0.02332	0.12743	0.28256	-0.09474
616.2398	84.0111	210.0059	9.9587	0.0349	-0.9994	0.0000	-0.00607	0.09419	0.26000	-0.13174
618.6997	84.0970	209.0671	11.5198	0.0349	-0.9994	0.0000	-0.03701	0.05759	0.22984	-0.17573
621.6871	84.2013	208.1248	13.6167	0.0349	-0.9994	0.0000	-0.07140	0.01330	0.20489	-0.22848
625.4032	84.3311	207.2226	16.2213	0.0349	-0.9994	0.0000	-0.10854	-0.03943	0.22663	-0.28912
630.1257	84.4960	206.4576	19.3373	0						

385.5902	82.3632	229.6515	14.8949	0.1614	-0.9869	0.0006	0.37210	0.45786	0.37530	0.45912
389.6640	82.9309	228.1110	18.7449	0.1225	-0.9924	0.0090	0.42104	0.51911	0.41647	0.49844
393.3024	83.2272	226.2423	13.1682	0.0226	-0.9997	-0.0006	0.48593	0.58725	0.53575	0.51752
395.6973	83.2937	224.8613	9.6690	0.0349	-0.9994	0.0000	0.35421	0.45952	0.41051	0.36054
397.3603	83.3518	223.9723	7.3544	0.0349	-0.9994	0.0000	0.36663	0.47253	0.44833	0.35330
398.5795	83.3944	223.4805	5.8991	0.0349	-0.9994	0.0000	0.34115	0.45054	0.43375	0.32127
399.5417	83.4280	223.3015	5.1906	0.0349	-0.9994	0.0000	0.33423	0.44391	0.43664	0.30508
400.3827	83.4574	223.2751	4.8427	0.0348	-0.9994	0.0000	0.32980	0.44123	0.43754	0.29519
401.3207	83.4901	223.1109	6.0514	0.0349	-0.9994	0.0000	0.32166	0.43430	0.43796	0.28074
402.4777	83.5305	222.6472	6.7527	0.0349	-0.9994	0.0000	0.30255	0.41777	0.43204	0.25272
403.7821	83.5761	221.9214	7.0903	0.0349	-0.9994	0.0000	0.27648	0.39410	0.42407	0.21652
405.1778	83.6248	221.0213	7.2185	0.0349	-0.9994	0.0000	0.24555	0.36540	0.41203	0.17617
406.6318	83.6756	220.0328	7.2676	0.0349	-0.9994	0.0000	0.21236	0.33376	0.39764	0.13321
408.1336	83.7280	219.0149	7.3277	0.0349	-0.9994	0.0000	0.17868	0.30085	0.38227	0.08988
409.6932	83.7825	217.9963	7.4826	0.0349	-0.9994	0.0000	0.14499	0.26716	0.36538	0.04650
411.3360	83.8399	216.9844	7.7644	0.0349	-0.9994	0.0000	0.11119	0.23255	0.34782	0.00281
413.1008	83.9015	215.9844	8.2378	0.0349	-0.9994	0.0000	0.07644	0.19596	0.32837	-0.04250
415.0421	83.9693	214.9588	8.9382	0.0349	-0.9994	0.0000	0.04057	0.15708	0.30770	-0.08992
417.2299	84.0457	213.9294	9.9128	0.0349	-0.9994	0.0000	0.00244	0.11407	0.28447	-0.14130
419.7618	84.1341	212.8866	11.2544	0.0349	-0.9994	0.0000	-0.03825	0.06613	0.26830	-0.19723
422.7829	84.2396	211.8408	13.0926	0.0349	-0.9994	0.0000	-0.08349	0.00991	0.27847	-0.26268
426.4944	84.3692	210.8172	15.4664	0.0349	-0.9994	0.0000	-0.13252	-0.05722	0.34257	-0.33767
431.1820	84.5329	209.8767	18.4316	0.0349	-0.9994	0.0000	-0.18444	-0.13512	0.45060	-0.41852
437.2232	84.7439	209.0437	21.9338	0.0349	-0.9994	0.0000	-0.22974	-0.21320	0.54866	-0.48490
444.9551	85.0139	208.2680	25.3588	0.0349	-0.9994	0.0000	-0.25013	-0.26266	0.57056	-0.47716
454.5130	85.3477	207.5326	29.9867	0.0349	-0.9994	0.0000	-0.23577	-0.25522	0.49519	-0.38349
465.7595	85.7404	206.8743	35.4011	0.0349	-0.9994	0.0000	-0.20063	-0.20033	0.35201	-0.24026
478.2911	86.1781	205.3404	42.6103	0.0349	-0.9994	0.0000	-0.16792	-0.14948	0.18989	-0.14217
491.4942	86.6393	203.9577	50.8266	0.0349	-0.9994	0.0000	-0.14941	-0.10738	0.03890	-0.10851
504.5626	87.0955	202.7089	59.1215	0.0349	-0.9994	0.0000	-0.14698	-0.12359	-0.11218	-0.13777
515.9861	87.4944	201.6392	68.1215	0.0349	-0.9994	0.0000	-0.29537	-0.17017	-0.19806	-0.12674
529.2444	88.0153	200.4693	77.9140	0.0349	-0.9994	0.0000	-0.40829	-0.23044	-0.33325	-0.06632
545.8568	88.6458	199.2697	89.6977	0.0349	-0.9994	0.0000	-0.48327	-0.38327	-0.46097	-0.22865
565.2517	89.4122	198.0442	104.0097	0.0349	-0.9994	0.0000	-0.45323	-0.45478	-0.43132	-0.27864
592.1601	90.3180	196.7738	121.0697	0.0349	-0.9997	-0.0065	-0.57628	-0.66786	-0.59829	-0.62168
629.5709	91.4844	195.1164	141.2019	0.0349	-0.9994	0.0000	-0.46488	-0.56064	-0.47175	-0.48290
679.2503	93.0133	193.1164	168.5500	0.0349	-0.9994	0.0000	-0.48307	-0.58064	-0.51107	-0.47839
741.4996	95.3567	190.7446	201.8243	0.0349	-0.9994	0.0000	-0.46300	-0.56447	-0.50119	-0.45115
818.4887	98.9111	187.6119	241.9307	0.0349	-0.9994	0.0000	-0.45963	-0.56177	-0.50543	-0.43714
921.3502	104.213	182.5729	291.4445	0.0349	-0.9994	0.0000	-0.45624	-0.56050	-0.50826	-0.42763
1050.3164	111.4551	175.3378	351.7172	0.0349	-0.9994	0.0000	-0.44818	-0.55415	-0.50921	-0.41135
1205.5162	120.4969	166.7391	434.9394	0.0349	-0.9994	0.0000	-0.42675	-0.53667	-0.50567	-0.37951
1389.8927	132.5450	155.8122	544.9664	0.0349	-0.9994	0.0000	-0.39513	-0.50941	-0.49555	-0.33581
1604.3991	149.5976	138.6605	671.9187	0.0349	-0.9994	0.0000	-0.35482	-0.47386	-0.48075	-0.28316
1859.0004	173.6535	125.3923	831.9566	0.0349	-0.9994	0.0000	-0.30916	-0.43249	-0.46123	-0.22519
2154.6757	198.7120	109.0909	1041.9835	0.0349	-0.9994	0.0000	-0.26090	-0.38761	-0.43988	-0.16498
2504.4212	229.7730	88.8026	1311.0719	0.0349	-0.9994	0.0000	-0.21183	-0.34077	-0.41617	-0.04421
2914.2499	266.8368	66.5448	1611.2629	0.0349	-0.9994	0.0000	-0.16312	-0.29300	-0.36652	0.01591
3389.1911	304.9047	44.3173	1961.8185	0.0349	-0.9994	0.0000	-0.11706	-0.24395	-0.34491	-0.07691
3914.2927	349.9781	21.1102	2351.8187	0.0349	-0.9994	0.0000	-0.06588	-0.19317	-0.33417	-0.14079
4504.6216	401.0594	-1.9125	2791.9125	0.0349	-0.9994	0.0000	-0.01569	-0.13875	-0.35235	-0.20849
5174.2741	458.1520	-11.7157	3291.7157	0.0349	-0.9994	0.0000	-0.03649	-0.07971	-0.31259	-0.28473
5924.3928	519.2609	-21.5182	3841.5182	0.0349	-0.9994	0.0000	-0.09242	-0.12599	-0.41609	-0.37096
6774.1816	584.3932	-31.3186	4441.3186	0.0349	-0.9994	0.0000	-0.15100	-0.23408	-0.53254	-0.51752
7744.9335	654.5925	-41.1045	5091.1045	0.0349	-0.9994	0.0000	-0.20975	-0.34080	-0.67117	-0.45955
8844.0430	729.725	-51.0463	5791.0463	0.0349	-0.9994	0.0000	-0.25911	-0.45252	-0.76605	-0.53282
10094.8840	809.8444	-61.0639	6491.0639	0.0349	-0.9994	0.0000	-0.27937	-0.56522	-0.75893	-0.52446
11494.6244	889.9665	-71.0885	7191.0885	0.0349	-0.9994	0.0000	-0.25901	-0.67256	-0.64147	-0.41377
12994.2622	969.9887	-81.1178	7891.1178	0.0349	-0.9994	0.0000	-0.21670	-0.78083	-0.45902	-0.24812
14594.9671	1049.9911	-91.1441	8591.1441	0.0349	-0.9994	0.0000	-0.18007	-0.88911	-0.26797	-0.14694
16294.5025	1129.9935	-101.1699	9291.1699	0.0349	-0.9994	0.0000	-0.16099	-0.99740	-0.09459	-0.11772
18094.8487	1209.9959	-111.1941	9991.1941	0.0349	-0.9994	0.0000	-0.15790	-1.10571	-0.07293	-0.12396
20094.5025	1289.9983	-121.2183	10691.2183	0.0349	-0.9994	0.0000	-0.15126	-1.21402	-0.18128	-0.13030
22294.2653	1369.9999	-131.2425	11391.2425	0.0349	-0.9994	0.0000	-0.29956	-1.69882	-0.08568	-0.06902
24694.5386	1449.9999	-141.2667	12091.2667	0.0349	-0.9994	0.0000	-0.03267	-1.15277	-0.29012	-0.21723
27294.3236	1529.9999	-151.2909	12791.2909	0.0349	-0.9994	0.0000	-0.39818	-1.47384	-0.42491	-0.50100
30094.0150	1609.9999	-161.3151	13491.3151	0.0349	-0.9994	0.0000	-0.49468	-1.81533	-0.46591	-0.58865
33094.5948	1689.9999	-171.3393	14191.3393	0.0349	-0.9994	0.0000	-0.63907	-2.15685	-0.69171	-0.80356
36294.9546	1769.9999	-181.3635	14891.3635	0.0349	-0.9994	0.0000	-0.84552	-2.49837	-0.92804	-0.96324
39794.9979	1849.9999	-191.3877	15591.3877	0.0349	-0.9994	0.0000	-1.11758	-2.84000	-1.16420	-0.58913
43594.8140	1929.9999	-201.4119	16291.4119	0.0349	-0.9994	0.0000	-1.50703	-3.18171	-1.50420	-0.58033
47694.7956	2009.9999	-211.4361	16991.4361	0.0349	-0.9994	0.0000	-1.90648	-3.52342	-1.84591	-0.57267
52094.6613	2089.9999	-221.4603	17691.4603	0.0349	-0.9994	0.0000	-2.30593	-3.86513	-2.18762	-0.56344
56794.5928	2169.9999	-231.4845	18391.4845	0.0349	-0.9994	0.0000	-2.70538	-4.20684	-2.52833	-0.55355
61794.5038	2249.9999	-241.5087	19091.5087	0.0349	-0.9994	0.0000	-3.10483	-4.54855	-2.86904	-0.47639
67094.4148	2329.9999	-251.5329	19791.5329	0.0349	-0.9994	0.0000	-3.50428	-4.89026	-3.21075	-0.41698
72694.3258	2409.9999	-261.5571	20491.5571	0.0349	-0.9994	0.0000	-3.90373	-5.23197	-3.55246	-0.34867
78594.2368	2489.9999	-271.5813	21191.5813	0.0349	-0.9994	0.0000	-4.30318	-5.57368	-3.89418	-0.27480
84794.1478	2569.9999	-281.6055	21891.6055	0.0349	-0.9994	0.0000	-4.70263	-5.91539	-4.23589	-0.19717
91294.0588	2649.9999	-291.6297	22591.6297	0.0349	-0.9994	0.0000	-5.10208	-6.25710	-4.57760	-0.11822
98094.9698	2729.9999	-301.6539	23291.6539	0.0349	-0.9994	0.0000	-5.50153	-6.59881	-4.91931	-0.03867
106194.8808	2809.9999	-311.6781	23991.6781	0.0349	-0.9994	0.0000	-5.90098	-6.94052	-5.26102	-0.04091
114694.7918	2889.9999	-321.7023	24691.7023	0.0349	-0.9994	0.0000	-6.30043	-7.28223	-5.60273	-0.12155
123594.7028	2969.9999	-331.7265	25391.7265	0.0349	-0.9994	0.0000	-6.70000	-7.62394	-5.94444	-0.20445
132894.6138	3049.9999	-341.7507	26091.7507	0.0349	-0.9994	0.0000	-7.10000	-7.96565	-6.28615	-0.28735
142594.5248	3129.9999	-351.7749	26791.7749	0.0349	-0.9994	0.0000	-7.50000	-8.30736	-6.62786	-0.37025
152694.4358	3209.9999	-361.7991	27491.7991	0.0349	-0.9994	0.0000	-7.90000	-8.64907	-6.96957	-0.45315
163194.3468	3289.9999	-371.8233	28191.8233	0.0349	-0.9994	0.0000	-8.30000	-8.99078	-7.31128	-0.53605
174094.2578	3369.9999	-381.8475	28891.8475	0.0349	-0.9994	0.0000	-8.70000	-9.33249	-7.652	

398.8369	83.4034	242.4130	4.6503	0.0349	-0.9994	0.0000	0.71669	0.79210	0.64544	0.71791
399.6459	83.4317	241.9051	5.2312	0.0349	-0.9994	0.0000	0.70947	0.78852	0.64922	0.70060
400.5559	83.4634	241.0083	5.6586	0.0348	-0.9994	0.0000	0.69289	0.77776	0.65790	0.67030
401.5938	83.4997	239.7636	6.0485	0.0349	-0.9994	0.0000	0.66194	0.75373	0.65235	0.62330
402.7950	83.5416	238.2589	6.4351	0.0349	-0.9994	0.0000	0.62042	0.72047	0.64628	0.56399
404.1803	83.5900	236.5929	6.8318	0.0349	-0.9994	0.0000	0.56468	0.67394	0.62588	0.49082
405.7537	83.6449	234.8514	7.2423	0.0349	-0.9994	0.0000	0.50126	0.61980	0.60408	0.41048
407.5127	83.7063	233.0928	7.6863	0.0349	-0.9994	0.0000	0.42767	0.55555	0.57180	0.32091
409.4572	83.7742	231.3488	8.1786	0.0349	-0.9994	0.0000	0.34974	0.48558	0.53976	0.22644
411.5981	83.8490	229.6342	8.7657	0.0349	-0.9994	0.0000	0.26638	0.40892	0.50544	0.12748
413.9633	83.9316	227.9497	9.4932	0.0349	-0.9994	0.0000	0.17994	0.32697	0.48216	0.02520
416.6028	84.0238	226.2891	10.4294	0.0349	-0.9994	0.0000	0.09119	0.23973	0.48505	-0.07967
419.5994	84.1284	224.6419	11.6758	0.0349	-0.9994	0.0000	0.00200	0.14773	0.53972	-0.18616
423.0863	84.2502	222.9961	13.3761	0.0349	-0.9994	0.0000	-0.08870	0.04781	0.65684	-0.29708
427.2677	84.3962	221.3435	15.6668	0.0349	-0.9994	0.0000	-0.17901	-0.06240	0.82242	-0.41814
432.4435	84.5770	219.6920	18.6503	0.0349	-0.9994	0.0000	-0.26304	-0.17894	0.98626	-0.53426
439.0137	84.8064	218.0547	22.7106	0.0349	-0.9994	0.0000	-0.32691	-0.28510	1.07138	-0.62697
447.3705	85.0982	216.4474	28.7320	0.0349	-0.9994	0.0000	-0.34566	-0.34701	1.01004	-0.62438
457.7020	85.4590	214.8319	38.4002	0.0349	-0.9994	0.0000	-0.30835	-0.32288	0.80813	-0.47323
469.8790	85.8843	213.2215	50.8598	0.0349	-0.9994	0.0000	-0.24754	-0.23589	0.54179	-0.25792
483.4807	86.3595	212.6340	70.2925	0.0349	-0.9994	0.0000	-0.20174	-0.16080	0.29193	-0.15422
497.8355	86.8608	212.0524	90.0091	0.0349	-0.9994	0.0000	-0.18147	-0.13239	0.08119	-0.13373
511.9276	87.3528	211.9759	116.4611	0.0349	-0.9994	0.0000	-0.17622	-0.13584	-0.10609	-0.14200
523.5802	87.7596	212.6062	159.9658	0.0349	-0.9994	0.0000	-0.15613	-0.13454	-0.25017	-0.13555
530.7352	88.0010	245.7328	22.4208	0.1564	-0.9877	0.0000	-0.28878	-0.15366	-0.01613	-0.05238
537.4753	81.0686	246.6593	20.9134	0.1564	-0.9877	0.0000	0.04407	0.13713	0.25302	0.24140
543.8991	82.0991	247.0115	19.8335	0.1605	-0.9870	0.0007	0.45847	0.53243	0.38936	0.58492
549.2495	82.9006	247.1974	16.0984	0.1319	-0.9912	-0.0086	0.60984	0.68038	0.50815	0.72272
556.0228	83.2287	247.4047	11.0185	0.0149	-0.9998	0.0103	0.74216	0.80502	0.61334	0.83606
563.4758	83.2860	247.6232	7.7602	0.0349	-0.9994	0.0000	0.72836	0.78808	0.58052	0.78998
571.1274	83.3437	247.7875	5.6492	0.0349	-0.9994	0.0000	0.78200	0.84253	0.62724	0.83566
579.3028	83.3848	247.8588	4.4396	0.0349	-0.9994	0.0000	0.79074	0.85555	0.64501	0.84221
587.2362	83.4173	247.8058	4.0799	0.0349	-0.9994	0.0000	0.80252	0.87148	0.65634	0.84857
595.9817	83.4434	247.5140	3.4795	0.0349	-0.9994	0.0000	0.80960	0.88344	0.68484	0.84968
604.5929	83.4648	246.8933	3.6310	0.0349	-0.9994	0.0000	0.80107	0.87811	0.68636	0.82845
613.2086	83.4862	245.9546	3.8883	0.0349	-0.9994	0.0000	0.79274	0.87499	0.70885	0.80372
621.9040	83.5105	244.7267	4.2633	0.0349	-0.9994	0.0000	0.76573	0.85378	0.70616	0.75690
630.7499	83.5401	243.2640	4.7252	0.0349	-0.9994	0.0000	0.73503	0.83079	0.71554	0.70523
639.7958	83.5765	241.6315	5.2551	0.0349	-0.9994	0.0000	0.68391	0.78918	0.70131	0.63195
649.0685	83.6210	239.8921	6.8385	0.0349	-0.9994	0.0000	0.62686	0.74226	0.69037	0.55363
658.5819	83.6738	238.0926	9.4845	0.0349	-0.9994	0.0000	0.55254	0.67962	0.66230	0.45968
668.3470	83.7355	236.2602	12.2041	0.0349	-0.9994	0.0000	0.46955	0.60770	0.63274	0.35684
678.3623	83.8065	234.4106	16.0451	0.0349	-0.9994	0.0000	0.37504	0.52375	0.59706	0.24494
688.6823	83.8882	232.5484	20.0448	0.0349	-0.9994	0.0000	0.27239	0.42377	0.56987	0.12505
699.2918	84.0818	230.6723	25.884	0.0349	-0.9994	0.0000	0.16203	0.32527	0.56536	-0.00207
710.7210	84.3918	228.7780	34.7889	0.0349	-0.9994	0.0000	0.04870	0.21281	0.60821	-0.13351
722.5511	84.7212	226.8596	47.7551	0.0349	-0.9994	0.0000	-0.06609	0.09063	0.60621	-0.26814
734.7251	85.0773	224.9149	65.7851	0.0349	-0.9994	0.0000	-0.17803	0.04198	0.86270	-0.41154
747.2462	85.4570	222.9546	91.4743	0.0349	-0.9994	0.0000	-0.27937	-0.17965	1.01532	-0.54951
760.9145	85.8617	221.0004	123.0434	0.0349	-0.9994	0.0000	-0.35309	-0.30226	1.08961	-0.65781
774.9378	86.2924	219.0878	165.626	0.0349	-0.9994	0.0000	-0.37086	-0.37135	1.01865	-0.66243
789.5664	86.7492	217.3037	229.2702	0.0349	-0.9994	0.0000	-0.32447	-0.34133	0.80506	-0.49425
804.2336	87.2316	215.7861	308.762	0.0349	-0.9994	0.0000	-0.25498	-0.24459	0.52830	-0.25579
819.2665	87.7429	214.6763	411.5631	0.0349	-0.9994	0.0000	-0.20619	-0.16486	0.27371	-0.15471
834.0874	88.2895	214.0827	543.5543	0.0349	-0.9994	0.0000	-0.18630	-0.13865	0.06008	-0.13865
849.6383	88.8647	214.1358	719.7891	0.0349	-0.9994	0.0000	-0.18058	-0.14364	-0.13112	-0.14800
864.2754	89.4757	214.9826	954.5542	0.0349	-0.9994	0.0000	-0.15802	-0.13854	-0.29059	-0.13742
879.3355	90.1278	214.9043	1215.5719	0.1564	-0.9877	0.0000	-0.29150	-0.15404	-0.07711	-0.05208
894.6099	90.8199	214.6555	1492.4250	0.1564	-0.9877	0.0000	0.06038	0.15423	0.22158	0.26495
909.6704	91.5527	214.0941	1785.0705	0.1611	-0.9869	-0.0009	0.49267	0.56560	0.34778	0.63002
924.4680	92.3247	213.4591	2092.8515	0.0961	-0.9953	-0.0085	0.66897	0.73178	0.52633	0.78885
939.4137	93.1414	212.8528	2407.0221	0.0208	-0.9998	-0.0013	0.76806	0.82697	0.58171	0.70765
954.4055	94.0009	212.2356	2733.0009	0.0349	-0.9994	0.0000	0.78273	0.84059	0.58617	0.87318
969.3267	94.9131	211.6336	3081.1336	0.0349	-0.9994	0.0000	0.82683	0.89205	0.62051	0.92584
984.2032	95.8782	211.0561	3443.1330	0.0348	-0.9994	0.0000	0.84055	0.91379	0.65091	0.94944
999.0399	96.8963	210.5062	3819.1330	0.0349	-0.9994	0.0000	0.85108	0.92554	0.64666	0.95737
1013.8433	97.9676	210.0000	4209.1330	0.0349	-0.9994	0.0000	0.87191	0.94916	0.69717	0.96733
1028.6096	99.0927	209.5822	4623.2920	0.0349	-0.9994	0.0000	0.86131	0.93887	0.68963	0.93740
1043.3477	100.2777	209.2423	5071.4423	0.0350	-0.9994	0.0000	0.86586	0.94777	0.72187	0.92487
1058.0587	101.5277	208.8809	5557.7557	0.0348	-0.9994	0.0000	0.84061	0.92635	0.72789	0.87147
1072.7487	102.8414	208.5597	6097.2097	0.0349	-0.9994	0.0000	0.82339	0.91584	0.75373	0.83259
1087.4094	104.2243	208.2436	6699.7517	0.0348	-0.9994	0.0000	0.77835	0.88007	0.74710	0.75986
1102.0418	105.6617	207.9244	7342.3742	0.0349	-0.9994	0.0000	0.73115	0.84294	0.74913	0.68647
1116.6459	107.1543	207.6050	8026.0875	0.0349	-0.9994	0.0000	0.66312	0.78715	0.73155	0.59331
1131.2236	108.6989	207.2867	8751.9051	0.0349	-0.9994	0.0000	0.58277	0.71943	0.71037	0.48682
1145.7867	110.3037	206.9687	9519.8926	0.0349	-0.9994	0.0000	0.48516	0.63486	0.67927	0.36533
1160.3355	111.9749	206.6519	10331.9962	0.0349	-0.9994	0.0000	0.37359	0.53511	0.65109	0.23082
1174.8799	113.7099	206.3367	11197.5949	0.0349	-0.9994	0.0000	0.24484	0.41608	0.63494	0.07932
1189.4207	115.5015	206.0228	12107.8517	0.0349	-0.9994	0.0000	0.10646	0.28253	0.65247	-0.08287
1203.9587	117.3515	205.7100	13062.8313	0.0349	-0.9994	0.0000	-0.03839	0.13335	0.71291	-0.25138
1218.4947	119.2615	205.4025	14067.7382	0.0349	-0.9994	0.0000	-0.17927	-0.02798	0.81507	-0.42368
1233.0307	121.2347	205.1000	15122.6825	0.0349	-0.9994	0.0000	-0.30304	-0.19119	0.91963	-0.58359
1247.5667	123.2677	204.8025	16227.5858	0.0349	-0.9994	0.0000	-0.39018	-0.33244	0.96097	-0.70472
1262.1027	125.3625	204.5100	17382.4681	0.0349	-0.9994	0.0000	-0.40737	-0.40894	0.87961	-0.71414
1276.6387	127.5171	204.2175	18587.3599	0.0349	-0.9994	0.0000	-0.35094	-0.37162	0.67884	-0.52858
1291.1747	129.7321	203.9250	19842.2472	0.0349	-0.9994	0.0000	-0.27152	-0.26180	0.43120	-0.26531
1305.7107	132.0071	203.6325	21147.1347	0.0349	-0.9994	0.0000	-0.21994	-0.17770	0.20317	-0.16740
1320.2467	134.3421	203.3400	22492.0222	0.0349	-0.9994	0.0001	-0.20099	-0.14468	0.00536	-0.15494
1334.7827	136.7371	203.0475	23886.9097	0.0349	-0.9994	0.0000	-0.19388	-0.15935	-0.17931	-0.16271
1349.3187	139.1921	202.7550	25331.8072	0.0349	-0.9994	0.0000	-0.16273	-0.14400	-0.33139	-0.13986
1363.8547	141.7071	202.4625	26826.7047	0.1564	-0.9877	0.0000	-0.29			

406.3749	83.6667	245.8997	4.0060	0.0349	-0.9994	0.0000	0.78481	0.88084	0.81033	0.70515
407.5995	83.7094	244.2810	4.7976	0.0349	-0.9994	0.0000	0.70953	0.81773	0.79509	0.59947
409.1558	83.7637	242.5149	5.7875	0.0349	-0.9994	0.0000	0.61339	0.73483	0.76509	0.47469
411.1142	83.8321	240.6509	7.0296	0.0349	-0.9994	0.0000	0.49998	0.63479	0.73149	0.33604
413.5692	83.9178	238.6577	8.6272	0.0349	-0.9994	0.0000	0.36040	0.50903	0.69616	0.17491
416.6490	84.0254	236.5254	10.6771	0.0349	-0.9994	0.0000	0.20337	0.36348	0.67698	-0.00310
420.5248	84.1608	234.2492	13.3147	0.0349	-0.9994	0.0000	0.03093	0.19493	0.67625	-0.19548
425.4139	84.3315	231.8416	16.5777	0.0349	-0.9994	0.0000	-0.14196	0.00919	0.69882	-0.39594
431.5755	84.5466	229.3379	20.4040	0.0349	-0.9994	0.0000	-0.29477	-0.17953	0.72115	-0.58253
439.2998	84.8164	226.8047	24.5555	0.0349	-0.9994	0.0000	-0.40144	-0.34116	0.70041	-0.72166
448.8494	85.1499	224.3394	28.6267	0.0349	-0.9994	0.0000	-0.42240	-0.42628	0.60733	-0.73868
460.3550	85.5517	222.0891	32.2041	0.0349	-0.9994	0.0000	-0.36013	-0.38389	0.44944	-0.54212
473.7172	86.0183	220.2404	35.0139	0.0349	-0.9994	0.0000	-0.27467	-0.26536	0.26776	-0.26203
488.5658	86.5372	218.9774	36.9828	0.0349	-0.9994	0.0000	-0.22206	-0.17944	0.09642	-0.16759
504.2470	87.0848	218.4515	37.8988	0.0349	-0.9994	0.0000	-0.20426	-0.15917	-0.06273	-0.15891
519.7457	87.6257	218.7878	35.9939	0.0349	-0.9994	0.0000	-0.19778	-0.16487	-0.22373	-0.16692
531.5228	88.0369	219.9117	18.0849	0.0349	-0.9994	0.0000	-0.16653	-0.14808	-0.37070	-0.14106
537.3735	79.9438	225.3568	26.1707	0.1564	-0.9877	0.0000	-0.29294	-0.14978	-0.12844	-0.04080
378.2714	81.1947	255.5113	23.6541	0.1564	-0.9877	-0.0038	0.53249	0.60618	0.30821	0.68972
386.1498	82.4473	255.6473	21.2585	0.1577	-0.9892	-0.0084	0.71181	0.77174	0.52175	0.87017
392.4562	83.1691	255.7696	17.4712	0.0347	-0.9994	-0.0002	0.75940	0.82510	0.49310	0.90743
396.5454	83.3236	255.8924	7.3267	0.0349	-0.9994	0.0000	0.80060	0.87067	0.54174	0.98142
399.4844	83.4260	256.0743	4.5923	0.0349	-0.9994	0.0000	0.83434	0.89500	0.52594	1.03543
401.5941	83.4997	256.1390	2.8813	0.0349	-0.9994	0.0000	0.86991	0.90271	0.51291	1.08671
403.1022	83.5524	256.2051	1.9338	0.0349	-0.9994	0.0000	0.86901	0.88143	0.42703	1.08409
404.1912	83.5904	256.1905	1.5701	0.0349	-0.9994	0.0000	0.90177	0.91598	0.49206	1.13500
404.7181	83.6088	255.8041	1.1344	0.0349	-0.9994	0.0000	0.92552	0.93483	0.50969	1.07463
404.8356	83.6129	255.0402	1.1218	0.0349	-0.9994	0.0000	0.95986	0.97334	0.59417	1.08936
404.9584	83.6171	254.1696	1.2874	0.0349	-0.9994	0.0000	0.97332	0.99003	0.64699	1.02874
405.1364	83.6234	253.1975	1.5852	0.0349	-0.9994	0.0000	0.98322	1.00570	0.71679	0.99194
405.4240	83.6334	252.1281	1.9685	0.0349	-0.9994	0.0000	0.96744	0.99794	0.76119	0.92180
405.8482	83.6482	250.9567	2.4169	0.0349	-0.9994	0.0000	0.93412	0.97517	0.80380	0.83681
406.4479	83.6692	249.6858	2.9340	0.0349	-0.9994	0.0000	0.87649	0.93104	0.82096	0.73974
407.2655	83.6978	248.3124	3.5494	0.0349	-0.9994	0.0000	0.79772	0.86835	0.82430	0.62451
408.3381	83.7352	246.8237	4.2505	0.0349	-0.9994	0.0000	0.68684	0.77776	0.80174	0.48182
409.7264	83.7837	245.2126	5.1470	0.0349	-0.9994	0.0000	0.58990	0.67046	0.76564	0.33100
411.5150	83.8461	243.4601	6.2898	0.0349	-0.9994	0.0000	0.39581	0.53039	0.70615	0.15187
413.8136	83.9264	241.5491	7.7822	0.0349	-0.9994	0.0000	0.21648	0.37126	0.64296	-0.03869
416.7685	84.0295	239.4647	9.7351	0.0349	-0.9994	0.0000	0.01811	0.18464	0.56713	-0.24512
420.5710	84.1624	237.1967	12.3032	0.0349	-0.9994	0.0000	-0.17579	-0.01724	0.49322	-0.45333
425.4594	84.3331	234.7552	15.5846	0.0349	-0.9994	0.0000	-0.34265	-0.21794	0.41608	-0.64373
431.7017	84.5511	232.1763	19.6126	0.0349	-0.9994	0.0000	-0.45770	-0.38851	0.32264	-0.78263
439.5765	84.8261	229.5379	24.3025	0.0349	-0.9994	0.0000	-0.47359	-0.47624	0.21939	-0.79896
449.3180	85.1663	226.9615	29.4123	0.0349	-0.9994	0.0000	-0.40066	-0.42584	0.11219	-0.58764
461.0361	85.5754	224.6210	34.5763	0.0349	-0.9994	0.0000	-0.30388	-0.29326	0.01305	-0.28543
474.6249	86.0500	222.7258	39.3070	0.0349	-0.9994	0.0000	-0.24823	-0.20329	-0.08195	-0.19585
489.7047	86.5771	221.4779	43.0955	0.0350	-0.9994	0.0001	-0.23138	-0.18673	-0.18741	-0.18743
505.6160	87.1327	221.0390	45.2897	0.0348	-0.9994	0.0000	-0.22361	-0.19128	-0.31398	-0.19207
521.4549	87.6854	221.4953	44.2675	0.0349	-0.9994	0.0000	-0.19123	-0.17061	-0.43991	-0.15688
533.6894	88.1126	222.5692	22.2800	0.0349	-0.9994	0.0000				

pylon for lower

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
405.3627	68.3502	256.6330	2.0040	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
405.4151	68.6229	255.8682	1.784	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
405.5196	68.9078	255.0304	1.5421	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
405.7002	69.2071	254.1197	1.313	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
405.9826	69.5202	253.1314	1.0166	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
406.3811	69.8480	252.0550	0.7258	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
406.9232	70.1897	249.8836	0.4462	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
407.6604	70.5430	248.6075	0.2305	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
408.6321	70.9074	246.6731	0.8775	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
409.9026	71.2810	244.9804	1.7142	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
411.5677	71.6579	243.1127	2.7887	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
413.7437	72.0315	241.0548	4.1897	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
416.5834	72.3918	238.7950	8.1897	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
420.2834	72.7203	236.3467	10.0340	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
425.0878	73.0332	233.7420	12.3812	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
431.2674	73.3093	231.0654	15.3780	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
439.1040	73.4744	228.4477	19.1986	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
448.8271	73.4844	226.0655	23.9767	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
460.5381	73.3740	224.1383	29.5519	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
474.1279	73.2362	222.8721	35.3008	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
489.2098	73.1399	222.4322	40.2924	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
505.1216	73.1260	222.8836	43.4589	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
521.0338	73.1841	224.1265	44.2437	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
535.8879	73.2614	224.0836	41.0368	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
545.3636	71.0516	224.1265	1.9527	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
545.4171	71.2776	224.1265	2.1177	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
545.5241	71.5141	224.1265	2.2752	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
545.7089	71.7631	224.1265	2.4569	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
545.9969	72.0242	224.1265	2.6688	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
546.4022	72.2982	224.1265	2.9222	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
546.9530	72.5847	224.1265	3.2180	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
547.6997	72.8822	224.1265	3.5477	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
548.6813	73.1904	224.1265	3.9038	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
549.9626	73.5084	224.1265	4.2938	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
551.6384	73.8318	224.1265	4.7184	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
553.8741	74.1661	224.1265	5.1784	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
556.6711	74.5111	224.1265	5.6734	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
560.0333	74.7771	224.1265	6.2034	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
563.9651	75.0652	224.1265	6.7684	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
568.3071	75.3381	224.1265	7.3684	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
573.0591	75.5322	224.1265	7.9934	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
578.2311	75.6137	224.1265	8.6434	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
583.8231	75.6125	224.1265	9.3184	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
589.8351	75.6044	224.1265	10.0184	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
596.2671	75.6435	224.1265	10.7434	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
603.1291	75.7577	224.1265	11.4934	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
610.3411	75.9320	224.1265	12.2684	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
617.9031	76.0985	224.1265	13.0684	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
625.8251	76.2599	224.1265	13.8934	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
634.1071	76.4199	224.1265	14.7434	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
642.7491	76.5799	224.1265	15.6184	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
651.7511	76.7399	224.1265	16.5184	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
661.1131	76.8999	224.1265	17.4434	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
670.8351	77.0599	224.1265	18.3934	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
680.9171	77.2199	224.1265	19.3684	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
691.3591	77.3799	224.1265	20.3684	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
702.1611	77.5399	224.1265	21.3934	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
713.3231	77.6999	224.1265	22.4434	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
724.8451	77.8599	224.1265	23.5184	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
736.7271	78.0199	224.1265	24.6184	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
748.9691	78.1799	224.1265	25.7434	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
761.5811	78.3399	224.1265	26.8934	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
774.5631	78.4999	224.1265	28.0684	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
787.9151	78.6599	224.1265	29.2684	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
801.6371	78.8199	224.1265	30.4934	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
815.7291	78.9799	224.1265	31.7434	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
830.1911	79.1399	224.1265	33.0184	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
845.0231	79.2999	224.1265	34.3184	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
860.2251	79.4599	224.1265	35.6434	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
875.7871	79.6199	224.1265	37.0934	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
891.7091	79.7799	224.1265	38.5684	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
907.9911	79.9399	224.1265	40.0684	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
924.6331	80.0999	224.1265	41.5934	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
941.6351	80.2599	224.1265	43.1434	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
958.9971	80.4199	224.1265	44.7184	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
976.7291	80.5799	224.1265	46.3184	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
994.8411	80.7399	224.1265	47.9434	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1013.3231	80.8999	224.1265	49.5934	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1032.1651	81.0599	224.1265	51.2684	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1051.3671	81.2199	224.1265	52.9684	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1070.9291	81.3799	224.1265	54.6934	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1090.8511	81.5399	224.1265	56.4434	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1111.1331	81.6999	224.1265	58.2184	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1131.7751	81.8599	224.1265	60.0184	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1152.7771	82.0199	224.1265	61.8434	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1174.1391	82.1799	224.1265	63.6934	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1195.8611	82.3399	224.1265	65.5684	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1217.9431	82.4999	224.1265	67.4684	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1240.3851	82.6599	224.1265	69.3934	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1263.1871	82.8199	224.1265	71.3434	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1286.3491	82.9799	224.1265	73.3184	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1309.8711	83.1399	224.1265	75.3184	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.3275	1.0357
1333.7531	83.2999	224.1265	77.3434	-0.9399	0.0003	-0.0427	0.8782	0.8162	0.	

406.4557	78.5394	251.8802	2.1188	-0.9216	0.0001	-0.3881	1.04054	1.05856	0.72928	0.95370
407.0287	78.6832	250.6866	2.3252	-0.8818	0.0000	-0.4716	0.99914	1.03421	0.78058	0.86850
407.7996	78.8359	249.3931	2.6063	-0.8376	-0.0001	-0.5462	0.92986	0.98501	0.80387	0.76864
408.8067	78.9984	247.9817	2.9297	-0.7924	0.0000	-0.6101	0.84171	0.91840	0.81214	0.65350
410.1154	79.1715	246.4411	3.3603	-0.7351	-0.0001	-0.6780	0.71181	0.82014	0.79073	0.50602
411.8181	79.3552	244.7492	3.9162	-0.6785	0.0000	-0.7346	0.58059	0.70626	0.75007	0.35198
414.0303	79.5498	242.8880	4.6300	-0.6141	-0.0002	-0.7892	0.40827	0.55820	0.67655	0.16834
416.9042	79.7554	240.8414	5.5579	-0.5516	-0.0001	-0.8341	0.22344	0.39269	0.58824	-0.02534
420.6365	79.9698	238.5980	6.7746	-0.4852	-0.0001	-0.8744	0.02004	0.20000	0.47361	-0.23526
425.4717	80.2052	236.1682	8.3233	-0.4194	-0.0002	-0.9078	-0.17743	-0.00655	0.35129	-0.44695
431.6824	80.4606	233.5856	10.2771	-0.3549	0.0001	-0.9349	-0.34831	-0.21288	0.22755	-0.64282
439.5497	80.7163	230.9318	12.7465	-0.2906	0.0002	-0.9569	-0.46712	-0.38990	0.10472	-0.78919
449.3046	80.9632	228.3355	15.8016	-0.2293	0.0000	-0.9734	-0.48265	-0.48072	0.00613	-0.91933
461.0512	81.2182	225.9777	19.3213	-0.1689	0.0000	-0.9856	-0.40764	-0.43023	-0.06640	-0.99537
474.6799	81.5135	224.0772	22.8769	-0.1107	0.0000	-0.9939	-0.30901	-0.29813	-0.11831	-0.29056
489.8027	81.8655	222.8427	25.8631	-0.0541	0.0002	-1.0000	-0.23527	-0.18881	-0.24384	-0.18928
505.7554	82.2712	222.4388	27.6204	0.0023	0.0006	-0.9982	-0.22641	-0.19358	-0.35104	-0.19426
521.7064	82.7053	222.9294	27.8405	0.0593	-0.0026	-0.9938	-0.18946	-0.16923	-0.44302	-0.15417
535.0624	83.0630	224.0091	20.0492	0.1103	0.0003	-0.9843	0.94115	0.95188	0.45526	0.15994
545.3655	79.6736	256.8134	1.3121	-0.9990	0.0002	-0.9955	0.94675	0.96504	0.48017	0.10250
405.4238	79.7481	255.8071	1.3121	-0.9990	0.0002	-0.9955	0.94675	0.96504	0.48017	0.10250
405.5385	79.8272	254.9300	1.4080	-0.9870	0.0002	-0.1609	1.00172	0.01695	0.56127	0.11515
405.7368	79.9129	253.9305	1.5136	-0.9698	0.0002	-0.2441	1.01244	0.03568	0.62152	0.05881
406.0427	80.0049	252.9576	1.6380	-0.9461	0.0001	-0.3238	1.02771	0.05623	0.69900	0.02234
406.2692	80.1041	251.8487	1.7868	-0.9208	0.0001	-0.3900	1.00886	0.04849	0.74997	0.95399
407.0477	80.2111	250.6512	1.9589	-0.8805	-0.0001	-0.4741	0.97025	0.02357	0.80021	0.86697
407.8246	80.3265	249.3546	2.1933	-0.8365	-0.0001	-0.5479	0.90493	0.07435	0.82214	0.76633
408.8381	80.4513	247.9410	2.4628	-0.7908	-0.0001	-0.6120	0.81983	0.09076	0.82809	0.64972
410.1536	80.5869	246.3995	2.8214	-0.7337	-0.0002	-0.6795	0.70052	0.08049	0.80327	0.50233
411.8630	80.7341	244.7078	3.2838	-0.6771	-0.0001	-0.7359	0.56738	0.06951	0.75811	0.34840
414.0816	80.8945	242.8478	3.8774	-0.6128	-0.0003	-0.7902	0.39955	0.05506	0.67771	0.16567
416.9615	81.0698	240.8033	4.6478	-0.5504	-0.0002	-0.8349	0.21812	0.03866	0.57910	-0.02726
420.6993	81.2608	238.5629	5.6564	-0.4841	-0.0002	-0.8750	0.01743	0.01952	0.45018	-0.23652
425.5398	81.4786	236.1364	6.9384	-0.4186	-0.0002	-0.9082	-0.17834	-0.00968	0.30915	-0.44778
431.7559	81.7256	233.5580	8.5493	-0.3541	0.0001	-0.9352	-0.34732	-0.21421	0.16433	-0.62298
439.6282	81.9916	230.9083	10.5775	-0.2901	0.0002	-0.9570	-0.46443	-0.38833	0.02739	-0.76638
449.3882	82.2730	228.3158	13.0748	-0.2288	0.0000	-0.9735	-0.48043	-0.42963	-0.06808	-0.80675
461.1404	82.5829	225.9624	15.9341	-0.1685	0.0000	-0.9837	-0.40668	-0.42963	-0.12026	-0.59376
474.7752	82.9428	224.0666	18.7850	-0.1103	0.0000	-0.9939	-0.30880	-0.29645	-0.14749	-0.28963
489.9042	83.3598	222.8376	21.8598	-0.0537	0.0003	-0.9986	-0.25232	-0.20577	-0.18191	-0.19793
505.8629	83.8238	222.9371	22.1578	0.0031	0.0005	-1.0000	-0.23502	-0.18893	-0.24696	-0.18898
521.8196	84.3078	224.0371	22.5755	0.0598	0.0006	-0.9982	-0.22572	-0.19343	-0.35111	-0.19370
534.9253	84.7001	225.9896	15.4537	-0.1103	-0.0026	-0.9939	-0.19226	-0.17102	-0.44884	-0.15685
545.3669	81.1123	256.8109	1.0074	-0.9990	0.0003	-0.9955	0.94675	0.96504	0.48017	0.10250
405.4248	81.1608	255.7993	1.0831	-0.9954	0.0002	-0.0960	0.98978	0.93921	0.49550	0.09786
405.5409	81.2132	254.9172	1.1597	-0.9868	0.0002	-0.1618	0.94659	0.98677	0.57926	0.10990
405.7415	81.2705	253.9639	1.2477	-0.9694	0.0001	-0.2456	0.96016	0.10064	0.63931	0.05354
406.0503	81.3334	252.9355	1.3492	-0.9457	0.0000	-0.3251	0.97548	0.10267	0.71709	0.01630
406.4803	81.4025	251.8226	1.4706	-0.9201	0.0000	-0.3916	0.96096	0.10201	0.76792	0.94716
407.0634	81.4785	250.6218	1.6109	-0.8794	-0.0001	-0.4761	0.92751	0.09639	0.81729	0.85908
407.8454	81.5625	249.3226	1.8018	-0.8356	-0.0002	-0.5493	0.86880	0.09499	0.83814	0.75829
408.8641	81.6555	247.9073	2.0212	-0.7896	-0.0001	-0.6136	0.78983	0.08434	0.84211	0.64089
410.1852	81.7592	246.3650	2.3129	-0.7325	-0.0003	-0.6808	0.67819	0.07899	0.81390	0.49425
411.9001	81.8755	244.6735	2.6887	-0.6759	-0.0001	-0.7370	0.55135	0.06801	0.76285	0.34102
414.1240	82.0068	242.8146	3.1707	-0.6118	-0.0003	-0.7910	0.38987	0.05373	0.67211	0.15966
417.0089	82.1560	240.7956	3.7956	-0.5494	-0.0003	-0.8355	0.21241	0.03715	0.55647	0.03217
420.7512	82.3264	238.5339	4.6120	-0.4833	-0.0003	-0.8784	0.01483	0.01893	0.43377	-0.24052
425.5960	82.5281	236.1103	5.6487	-0.4180	-0.0002	-0.9101	-0.14001	-0.10407	0.23695	-0.45074
431.8163	82.7664	233.5352	6.9447	-0.3527	0.0001	-0.9354	-0.34761	-0.21680	0.07387	-0.64354
439.6927	83.0383	230.8890	8.5704	-0.2897	0.0002	-0.9571	-0.46366	-0.38974	-0.06511	-0.78516
449.4566	83.3449	228.3449	10.5617	-0.2284	0.0000	-0.9736	-0.47930	-0.47906	-0.14829	-0.80388
461.2133	83.6822	225.9499	12.8260	-0.1681	0.0000	-0.9858	-0.40557	-0.42897	-0.18262	-0.59143
474.7923	84.0422	224.0581	15.0675	-0.1100	0.0000	-0.9939	-0.30770	-0.29572	-0.19369	-0.28781
489.9853	84.5687	222.8335	16.8864	-0.0534	0.0002	-0.9986	-0.25134	-0.20517	-0.21538	-0.19701
505.9496	85.0741	222.4408	17.8674	0.0034	0.0005	-1.0000	-0.23423	-0.18849	-0.27000	-0.18835
521.9103	85.5922	222.9432	17.8409	0.0602	0.0005	-0.9982	-0.22610	-0.19328	-0.36475	-0.19356
534.9162	86.0075	222.9741	11.6973	-0.1099	-0.0026	-0.9939	-0.19072	-0.17013	-0.45030	-0.15555
405.3673	82.2825	256.6089	0.8156	-0.9990	0.0002	-0.0440	0.98666	0.90761	0.48469	0.14525
405.4258	82.3096	255.7930	0.8759	-0.9953	0.0003	-0.0964	0.99019	0.92587	0.50427	0.09140
405.5429	82.3397	254.9069	0.9374	-0.9867	0.0002	-0.1626	0.93086	0.96772	0.58960	0.10355
405.7453	82.3739	253.9497	1.0079	-0.9690	0.0001	-0.2469	0.94727	0.98659	0.64945	0.04797
406.0565	82.4129	252.9176	1.0892	-0.9453	0.0000	-0.3261	0.96106	0.10054	0.77806	0.94197
406.4894	82.4571	251.8014	1.1864	-0.9196	0.0000	-0.3929	0.94881	0.09181	0.82691	0.85401
407.0762	82.5077	250.5979	1.2985	-0.8785	-0.0002	-0.4738	0.91981	0.07735	0.87269	0.75399
407.8622	82.5657	249.2967	1.4511	-0.8349	-0.0002	-0.5404	0.86487	0.06487	0.84722	0.63684
408.8852	82.6324	247.8799	1.6264	-0.7886	-0.0003	-0.6143	0.78872	0.07199	0.85077	0.49118
410.2108	82.7098	246.3371	1.8590	-0.7315	-0.0002	-0.7379	0.67889	0.07127	0.82306	0.33865
411.9302	82.8004	244.6458	2.1430	-0.6749	-0.0004	-0.7917	0.55166	0.07440	0.77455	0.15809
414.1583	82.9073	242.7877	2.5430	-0.6110	-0.0003	-0.8360	0.38815	0.05347	0.69006	-0.03343
417.0471	83.0346	240.7464	3.0403	-0.5487	-0.0003	-0.8758	0.20884	0.03742	0.58648	-0.24151
420.7931	83.2873	238.5105	3.6887	-0.4826	-0.0003	-0.9087	0.01000	0.01862	0.45250	-0.45142
425.6413	83.5747	236.0892	4.5101	-0.4175	-0.0003	-0.9507	-0.18382	-0.01699	0.30843	-0.64351
431.8649	83.8042	233.5169	5.5337	-0.3530	0.0000	-0.9856	-0.35012	-0.21895	0.16474	-0.78406
439.5444	83.8790	230.8735	6.8117	-0.2893	0.0001	-0.9572	-0.46486	-0.39073	-0.03395	-0.80222
449.5114	84.2034	228.2869	8.3687	-0.2281	-0.0001	-0.9736	-0.47980	-0.42927	-0.05541	-0.59072
461.2714	84.5845	225.9400	10.1261	-0.1679	-0.0001	-0.9858	-0.40593	-0.29597	-0.10528	-0.28732
474.9142	85.0272	224.0512	11.8458	-0.1098	0.0000	-0.9940	-0.30789	-0.29597	-0.13415	-0.19681
490.0513	85.5250	222.8303	13.2131	-0.0531	0.0002	-0.9986	-0.25145	-0.20536	-0.17220	-0.18818
506.0178	86.0583	222.4414	13.9096	0.0037	0.0004	-1.0000	-0.23423	-0.18870	-0.24026	-0.15767
521.9814	86.5981	222.9481	8.8160	-0.0604	-0.0005	-0.9982	-0.22557	-0.19323	-0.34526	-0.12327
534.7313	87.0274	223.9620	8.7401	-0.1096	-0.0026	-0.9940	-0.19332	-0.17195	-0.45079	-0.14281
405.3676	83.2179	256.6073								

431.9033	84.2672	233.5024	4.3425	-0.3526	0.0000	-0.9358	-0.35402	-0.22230	0.41800	-0.64469
439.7852	84.5426	230.8612	5.3322	-0.2891	0.0001	-0.9573	-0.46614	-0.39203	0.31698	-0.78338
449.5545	84.8790	228.2767	6.5311	-0.2279	-0.0001	-0.9737	-0.47950	-0.47906	0.20889	-0.79956
461.3170	85.2812	225.9322	7.8740	-0.1676	-0.0001	-0.9858	-0.40507	-0.42808	0.10150	-0.58769
474.9622	85.7480	224.0459	9.1723	-0.1096	-0.0001	-0.9940	-0.30703	-0.29480	0.00584	-0.28540
490.1018	86.2683	222.8277	10.1818	-0.0529	0.0002	-0.9986	-0.25077	-0.20459	-0.08472	-0.19587
506.0705	86.8192	222.4420	10.6623	0.0039	0.0004	-1.0000	-0.23358	-0.18813	-0.18706	-0.18752
522.0361	87.3718	222.9518	10.5329	0.0606	0.0005	-0.9982	-0.22520	-0.19229	-0.31280	-0.19211
534.6664	87.8086	223.9528	6.4714	0.1093	-0.0027	-0.9940	-0.19222	-0.17107	-0.43914	-0.15685

plate bottom upper

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
370.3788	79.9446	258.6369	26.2572	0.1564	-0.9877	0.0000	-0.30520	-0.15687	0.06282	-0.07510
378.2921	81.1979	258.4824	23.8983	0.1564	-0.9877	0.0000	-0.08385	0.18416	0.49717	-0.25270
386.1921	82.4532	258.3524	21.7328	0.1575	-0.9875	0.0031	-0.51112	0.58354	0.54744	-0.63609
392.6181	83.1738	258.2360	11.9621	0.0387	-0.9992	-0.0085	-0.67953	0.74315	0.7681	-0.83918
396.6186	83.3261	258.1220	7.8148	0.0349	-0.9994	-0.0001	-0.70982	0.7431	0.49206	-0.89116
399.5562	83.4285	258.0050	4.9728	0.0349	-0.9994	0.0000	-0.73665	0.80721	0.45772	-0.97937
401.6530	83.5017	257.9000	3.1265	0.0349	-0.9994	0.0000	-0.74486	0.81308	0.38099	-1.03469
403.1474	83.5518	257.8371	2.0772	0.0349	-0.9994	0.0000	-0.7496	0.82256	0.39160	-1.09544
404.2322	83.5918	257.8494	1.6496	0.0349	-0.9994	0.0000	-0.76222	0.78890	0.29166	-1.08625
404.7611	83.6103	258.2400	1.1051	0.0348	-0.9994	-0.0001	-0.76663	0.79886	0.38200	-1.14364
404.8882	83.6147	259.0109	1.0756	0.0349	-0.9994	0.0000	-0.72351	0.73032	0.19648	-1.03508
405.0267	83.6195	259.8840	1.2097	0.0349	-0.9994	0.0000	-0.68069	0.69162	0.17039	-1.02916
405.2771	83.6265	260.8597	1.4635	0.0350	-0.9994	0.0000	-0.58854	0.59822	-0.01642	-0.92934
405.5302	83.6372	261.9288	1.7939	0.0349	-0.9994	0.0000	-0.49265	0.50961	-0.07882	-0.86271
405.9623	83.6522	263.0940	2.1898	0.0349	-0.9994	0.0000	-0.38046	0.40698	-0.17294	-0.76325
406.5604	83.6731	264.3529	2.6726	0.0349	-0.9994	0.0000	-0.24391	0.28079	-0.27855	-0.64715
407.3672	83.7013	265.7117	3.2742	0.0349	-0.9994	0.0000	-0.11783	0.16483	-0.34419	-0.53492
408.4217	83.7381	267.1867	3.9875	0.0349	-0.9994	0.0000	-0.01000	0.04813	-0.40515	-0.41512
409.7872	83.7858	268.7877	4.9205	0.0349	-0.9994	0.0000	-0.15499	-0.08644	-0.48371	-0.27213
411.5511	83.8474	270.5357	6.1239	0.0349	-0.9994	0.0000	-0.27875	-0.20304	-0.51892	-0.15592
413.8273	83.9269	272.4473	7.6964	0.0349	-0.9994	0.0000	-0.40358	-0.32567	-0.55206	-0.01204
416.7662	84.0295	274.5327	9.7459	0.0349	-0.9994	0.0000	-0.49883	-0.42931	-0.58477	-0.14646
420.5589	84.1619	276.8019	12.4027	0.0349	-0.9994	0.0000	-0.56748	-0.51397	-0.53956	-0.27087
425.4418	84.3324	279.2469	15.7571	0.0349	-0.9994	0.0000	-0.60281	-0.58381	-0.51447	-0.38077
431.6842	84.5505	281.8277	19.8312	0.0349	-0.9994	0.0000	-0.60653	-0.62880	-0.49565	-0.47295
439.5629	84.8256	284.4669	24.6382	0.0349	-0.9994	0.0000	-0.57523	-0.61647	-0.47049	-0.52837
449.3100	85.1659	287.0401	30.3387	0.0349	-0.9994	0.0000	-0.52815	-0.54303	-0.45360	-0.53034
461.0318	85.5753	289.3764	36.7690	0.0349	-0.9994	0.0000	-0.48476	-0.45111	-0.43752	-0.48541
474.6213	86.0738	291.5710	43.357	0.0349	-0.9994	0.0000	-0.46014	-0.40119	-0.43114	-0.43279
489.7010	86.5770	292.5130	45.1401	0.0350	-0.9994	0.0000	-0.44423	-0.38671	-0.42633	-0.40023
505.6117	87.1376	292.9528	45.2829	0.0348	-0.9994	-0.0001	-0.42345	-0.37279	-0.41578	-0.37637
521.4533	87.6852	292.5078	44.3098	0.0349	-0.9994	0.0000	-0.38967	-0.34117	-0.41301	-0.34132
533.7013	88.1129	291.4426	42.5567	0.0349	-0.9994	0.0000	-0.32350	-0.26965	-0.39683	-0.26187
570.2947	79.9313	261.8956	25.1921	0.1564	-0.9877	0.0000	-0.32978	-0.17428	-0.21007	-0.11134
378.0292	81.1563	261.4395	22.9102	0.1564	-0.9877	0.0000	-0.04988	-0.15644	-0.73738	-0.19113
385.6907	82.3822	261.1198	21.3040	0.1597	-0.9872	-0.0038	0.46263	0.54934	0.76460	0.56707
391.8969	83.1230	260.8530	12.9990	0.0528	-0.9986	-0.0092	0.61339	0.68652	0.77055	0.77324
395.9824	83.3070	260.5770	8.4458	0.0330	-0.9995	-0.0017	0.65524	0.74392	0.43060	0.91148
398.7785	83.4014	260.2861	5.4105	0.0349	-0.9994	0.0000	0.68524	0.74677	0.33374	0.94888
400.6836	83.4679	260.0328	3.9899	0.0349	-0.9994	0.0000	0.66478	0.75501	0.32955	0.99227
401.9912	83.5136	259.8790	2.4546	0.0349	-0.9994	0.0000	0.64428	0.75501	0.32955	0.98138
402.9528	83.5472	259.8802	1.2188	0.0349	-0.9994	0.0000	0.62428	0.72725	0.24542	0.90101
403.5399	83.5676	260.3240	1.5002	0.0348	-0.9994	-0.0001	0.66707	0.71806	0.24964	0.91013
404.8190	83.5774	260.3240	1.3369	0.0349	-0.9994	0.0000	0.59239	0.63849	0.12529	0.92356
404.3488	83.5854	261.7829	1.3763	0.0348	-0.9994	0.0000	0.55236	0.60316	0.12713	0.92078
404.6643	83.5945	262.8027	1.5389	0.0349	-0.9994	0.0000	0.46232	0.51649	0.02235	0.82323
405.1554	83.6240	265.2319	1.7961	0.0349	-0.9994	0.0000	0.39181	0.45208	-0.01543	0.78362
405.8233	83.6474	266.6146	2.1557	0.0349	-0.9994	0.0000	0.30254	0.36859	-0.08491	0.69615
406.7079	83.6782	268.1023	2.6354	0.0349	-0.9994	0.0000	0.21261	0.28218	-0.13184	0.61111
407.8524	83.7182	269.7047	3.2641	0.0349	-0.9994	0.0000	0.12557	0.19883	-0.17209	0.51942
409.3173	83.7694	271.4278	4.0598	0.0349	-0.9994	0.0000	0.02787	0.10553	-0.22285	0.41631
411.1846	83.8346	273.2846	5.1096	0.0350	-0.9994	0.0000	-0.07558	0.00428	-0.22285	0.41631
413.5609	83.9176	275.2846	6.4680	0.0349	-0.9994	0.0000	-0.17381	0.09330	-0.37369	0.19411
416.5827	84.0231	277.4302	8.2306	0.0349	-0.9994	0.0000	-0.27452	0.20248	-0.35490	0.07216
420.4243	84.1573	279.7217	10.4761	0.0349	-0.9994	0.0000	-0.36633	0.26668	-0.39265	-0.17060
425.3031	84.3276	282.1450	12.2931	0.0349	-0.9994	0.0000	-0.45512	0.39605	-0.39770	-0.28553
431.4759	84.5432	284.6603	16.6977	0.0349	-0.9994	0.0000	-0.50615	0.53455	-0.40087	-0.38572
439.2249	84.8138	287.2011	20.5965	0.0349	-0.9994	0.0000	-0.49564	0.53867	-0.39681	-0.45245
448.8016	85.1482	289.6670	24.7512	0.0349	-0.9994	0.0000	-0.46752	0.48322	-0.39441	-0.46847
460.3268	85.5507	293.2806	28.7766	0.0349	-0.9994	0.0000	-0.43757	0.40761	-0.38971	-0.43690
473.6997	86.0177	295.7584	34.9959	0.0349	-0.9994	0.0000	-0.41960	0.36436	-0.38963	-0.39394
488.5546	86.5369	298.0114	36.8700	0.0349	-0.9994	0.0000	-0.40801	0.35231	-0.38922	-0.36538
503.7484	87.1846	299.5349	37.7665	0.0349	-0.9994	0.0000	-0.39116	0.34222	-0.38345	-0.34530
519.7484	87.6257	299.2125	35.9847	0.0349	-0.9994	0.0000	-0.36183	0.31562	-0.38353	-0.31470
531.5580	88.0381	294.1147	18.4052	0.0349	-0.9994	0.0000	-0.31160	0.26260	-0.37322	-0.25357
370.3755	79.9441	265.0971	23.8542	0.1564	-0.9877	0.0000	-0.35011	-0.18856	-0.35447	-0.13512
377.7758	81.1162	264.3755	22.0770	0.1564	-0.9877	0.0000	-0.01806	-0.13024	-0.95721	-0.14383
385.0231	82.2814	264.0130	21.1326	0.1612	-0.9869	-0.0015	0.40655	0.50291	0.98201	0.50793
391.0076	83.0506	263.7682	15.1103	0.0784	-0.9963	-0.0004	0.52531	0.61225	0.68605	0.69930
395.0878	83.2865	263.4986	10.1869	0.0264	-0.9996	0.0023	0.58946	0.66823	0.58273	0.80527
397.7849	83.3666	263.2031	6.8703	0.0349	-0.9994	0.0000	0.57487	0.64693	0.46856	0.84095
399.5834	83.4295	262.9491	4.6889	0.0349	-0.9994	0.0000	0.55581	0.65047	0.42823	0.87075
400.8225	83.4727	262.7912	3.4446	0.0349	-0.9994	0.0000	0.53079	0.61762	0.37301	0.87333
401.7738	83.5060	262.7671	2.0279	0.0349	-0.9994	0.0000	0.51065	0.59650	0.35447	0.87869
402.4557	83.5298	263.0490	1.1338	0.0349	-0.9994	0.0000	0.45392	0.53902	0.08959	0.82680
402.8989	83.5452	263.5317	1.8571	0.0349	-0.9994	0.0000	0.41700	0.50218	0.06697	0.80182
403.7854	83.5583	264.5317	1.9881	0.0349	-0.9994	0.0000	0.34274	0.42975	-0.00229	0.72163
404.2087	83.5733	266.8610	2.2584	0.0349	-0.9994	0.0000	0.28287	0.37140	-0.03753	0.67508
404.8523	83.6135	268.2632	2.6581	0.0349	-0.9994	0.0000	0.19942	0.29138	-0.10337	0.58918
405.6730	83.6421	269.7839	3.1986	0.0349	-0.9994	0.0000	0.11958	0.21285	-0.14136	0.51213
406.7097	83.6783	271.4080	3.9034	0.0349	-0.9994	0.0000	0.03134	0.12720	-0.18591	0.41947
408.0063	83.7236	273.1324	4.7923	0.0349	-0.9994	0.0000	-0.06231	0.03425	-0.22827	0.32209
409.6182	83.7799	274.9542	5.9245	0.0349	-0.9994	0.0000	-0.15756	0.06362	-0.26838	0.17882
411.6174	83.8497	276.8752	7.3408	0.0349	-0.9994	0.0000	-0.24717	0.15863	-0.30067	0.00786
414.0939	83.9362	278.8938	9.0995	0.0349	-0.9994	0.0000	-0.33353	0.25388	-0.34796	-0.10076
417.1615	84.0433	281.0040	11.2486	0.0349	-0.9994	0.0000	-0.40587	0.33965	-0.36342	-0.20494
420.9686	84.1763	283.1981	13.8526	0.0349	-0.9994	0.0000	-0.45716	0.48258	-0.37077	-0.30086
425.7111	84.3419	285.4614	16.9382	0.0349	-0.9994	0.0000	-0.49868	0.52553	-0.37774	-0.38483
431.6437	84.5491	287.7633	20.4651	0.0349	-0.9994	0.0000	-0.48596	0.52451	-0.37777	-0.44208
439.0784	84.8087	290.0595	24.7260	0.0349	-0.9994	0.0000	-0.45896	0.47199	-0.37880	-0.45609
448.3116	85.1311	292.2834	27.7569							

384.4502	82.1902	267.1095	20.9296	0.1615	-0.9869	0.0001	0.34454	0.45324	1.18789	0.44045
390.1426	82.9794	267.0819	17.4981	0.1055	-0.9944	0.0047	0.43011	0.53498	0.98560	0.61964
394.2237	83.2701	267.0464	12.3871	0.0176	-0.9998	-0.0004	0.51219	0.60206	0.65806	0.75740
396.9063	83.3360	266.9582	8.9097	0.0349	-0.9994	0.0000	0.45924	0.54099	0.27114	0.74803
398.7204	83.3993	266.8633	6.5005	0.0349	-0.9994	0.0000	0.45312	0.53759	0.15886	0.76463
400.0063	83.4442	266.7997	4.9802	0.0349	-0.9994	0.0000	0.42695	0.51697	0.11622	0.74978
401.0117	83.4793	266.7921	4.2733	0.0348	-0.9994	0.0000	0.39576	0.48910	0.09897	0.72939
401.7784	83.5061	267.0050	2.9754	0.0350	-0.9994	0.0000	0.36768	0.46382	0.07933	0.71828
402.3564	83.5263	267.5515	2.6455	0.0349	-0.9994	0.0000	0.32444	0.42216	0.03745	0.68295
402.9028	83.5454	268.3893	2.6151	0.0349	-0.9994	0.0000	0.28194	0.38027	0.00332	0.64597
403.4895	83.5659	269.4961	2.7820	0.0349	-0.9994	0.0000	0.22014	0.32028	-0.03759	0.58297
404.1716	83.5897	270.8233	3.1037	0.0349	-0.9994	0.0000	0.16205	0.26273	-0.06629	0.52848
404.9925	83.6184	272.3172	3.5733	0.0349	-0.9994	0.0000	0.08966	0.19220	-0.10821	0.45518
405.9889	83.6532	273.9304	4.1891	0.0349	-0.9994	0.0000	0.02775	0.12486	-0.13197	0.38820
407.1961	83.6953	275.6313	4.9606	0.0349	-0.9994	0.0000	-0.04842	0.05348	-0.15998	0.30960
408.6528	83.7462	277.4025	5.9322	0.0349	-0.9994	0.0000	-0.11654	-0.01815	-0.18019	0.23267
410.4046	83.8074	279.2311	7.0110	0.0349	-0.9994	0.0000	-0.18045	-0.08773	-0.20250	0.15522
412.5083	83.8808	281.1095	8.3359	0.0349	-0.9994	0.0000	-0.23905	-0.15478	-0.22418	0.07629
415.0343	83.9690	283.0300	9.8982	0.0349	-0.9994	0.0000	-0.29222	-0.22108	-0.24680	-0.00596
418.0747	84.0752	284.9847	11.7448	0.0349	-0.9994	0.0000	-0.33678	-0.28571	-0.26479	-0.08763
421.7583	84.2038	286.9684	13.9653	0.0349	-0.9994	0.0000	-0.37638	-0.34944	-0.28455	-0.16996
426.2718	84.3614	288.9741	16.6519	0.0349	-0.9994	0.0000	-0.40884	-0.41000	-0.30122	-0.25335
431.8821	84.5574	290.9839	19.8530	0.0349	-0.9994	0.0000	-0.42933	-0.45598	-0.31853	-0.33285
438.9382	84.8038	292.9725	23.4156	0.0349	-0.9994	0.0000	-0.43077	-0.46543	-0.33064	-0.39304
447.7798	85.1125	294.9018	26.7970	0.0349	-0.9994	0.0000	-0.41823	-0.42895	-0.34222	-0.41635
458.5676	85.4893	296.6882	29.3530	0.0349	-0.9994	0.0000	-0.40069	-0.37236	-0.34962	-0.39798
471.1855	85.9299	298.1993	30.8378	0.0349	-0.9994	0.0000	-0.38913	-0.36642	-0.35722	-0.36561
485.2446	86.4211	299.2945	31.4418	0.0349	-0.9994	0.0000	-0.38208	-0.36220	-0.36230	-0.34170
500.0850	86.9394	299.8801	31.4084	0.0349	-0.9994	0.0000	-0.37054	-0.32065	-0.36064	-0.32582
514.6524	87.4479	299.8415	29.6958	0.0349	-0.9994	0.0000	-0.34804	-0.30182	-0.36234	-0.30216
526.3234	87.9554	299.0333	18.6625	0.0349	-0.9994	0.0000	-0.31039	-0.26803	-0.35330	-0.25837
537.1645	88.4641	297.0116	12.3113	0.0349	-0.9994	0.0000	-0.26931	-0.21706	-0.33918	-0.17270
548.0562	88.9724	294.0104	6.8856	0.0349	-0.9877	0.0000	-0.02671	0.09429	1.25925	0.08584
559.9483	89.4808	291.0104	2.3113	0.0349	-0.9869	-0.0005	0.27927	0.40066	1.32281	0.38684
571.8408	89.9893	288.0104	2.3113	0.0349	-0.9923	0.0020	0.33142	0.45665	1.07834	0.54589
583.7330	90.4978	285.0104	16.7775	0.0349	-0.9959	-0.0016	0.41023	0.52026	0.68584	0.69540
595.6255	91.0063	282.0104	12.1987	0.0349	-0.9994	0.0000	0.32745	0.42388	0.18449	0.64412
607.5180	91.5148	279.0104	9.0027	0.0349	-0.9994	0.0000	0.32081	0.41643	0.07091	0.64335
619.4105	92.0233	276.0104	6.8598	0.0349	-0.9994	0.0000	0.28350	0.38063	0.02544	0.59933
631.3030	92.5318	273.0104	5.6081	0.0348	-0.9994	0.0000	0.25666	0.35410	0.03324	0.56991
643.1955	93.0403	270.0104	3.9389	0.0350	-0.9994	0.0000	0.22805	0.32727	0.01915	0.54982
655.0880	93.5488	267.0104	3.6974	0.0348	-0.9994	0.0000	0.19651	0.29642	-0.00298	0.52490
666.9805	94.0573	264.0104	3.7133	0.0349	-0.9994	0.0000	0.15585	0.25704	-0.03415	0.48989
678.8730	94.5658	261.0104	3.9208	0.0349	-0.9994	0.0000	0.10831	0.21024	-0.05679	0.44206
690.7655	95.0743	258.0104	4.2810	0.0349	-0.9994	0.0000	0.05906	0.16086	-0.07755	0.39271
702.6580	95.5828	255.0104	4.7779	0.0349	-0.9994	0.0000	0.00525	0.10648	-0.09950	0.33654
714.5505	96.0913	252.0104	5.3955	0.0349	-0.9994	0.0000	-0.04499	0.05377	-0.11605	0.28124
726.4430	96.6000	249.0104	6.1309	0.0349	-0.9994	0.0000	-0.09716	-0.00122	-0.13601	0.21935
738.3355	97.1085	246.0104	6.9737	0.0349	-0.9994	0.0000	-0.14630	-0.05585	-0.15183	0.15918
750.2280	97.6170	243.0104	7.9385	0.0349	-0.9994	0.0000	-0.19442	-0.11078	-0.17087	0.09738
762.1205	98.1255	240.0104	9.0413	0.0349	-0.9994	0.0000	-0.24124	-0.16725	-0.19058	0.03310
774.0130	98.6340	237.0104	10.3203	0.0349	-0.9994	0.0000	-0.28765	-0.22780	-0.21381	-0.03519
785.9055	99.1425	234.0104	11.8512	0.0349	-0.9994	0.0000	-0.33406	-0.28702	-0.23981	-0.10632
797.7980	99.6510	231.0104	13.7656	0.0349	-0.9994	0.0000	-0.37116	-0.35100	-0.25709	-0.18060
809.6905	100.1595	228.0104	15.7156	0.0349	-0.9994	0.0000	-0.39965	-0.40425	-0.27402	-0.25423
821.5830	100.6680	225.0104	17.6844	0.0349	-0.9994	0.0000	-0.41424	-0.43853	-0.29036	-0.32118
833.4755	101.1765	222.0104	19.6621	0.0349	-0.9994	0.0000	-0.41291	-0.44191	-0.30295	-0.37064
845.3680	101.6850	219.0104	21.6495	0.0349	-0.9994	0.0000	-0.40059	-0.40797	-0.31608	-0.39040
857.2605	102.1935	216.0104	23.6370	0.0349	-0.9994	0.0000	-0.38523	-0.35727	-0.32682	-0.37567
869.1530	102.7020	213.0104	25.6245	0.0349	-0.9994	0.0000	-0.37598	-0.32459	-0.33794	-0.34857
881.0455	103.2105	210.0104	27.6120	0.0349	-0.9994	0.0000	-0.37136	-0.31591	-0.34643	-0.32871
892.9380	103.7190	207.0104	29.6006	0.0349	-0.9994	0.0000	-0.36301	-0.31280	-0.34785	-0.31602
904.8305	104.2275	204.0104	31.5893	0.0349	-0.9994	0.0000	-0.34377	-0.29670	-0.34939	-0.29588
916.7230	104.7360	201.0104	33.5780	0.0349	-0.9994	0.0000	-0.30814	-0.26663	-0.34494	-0.25833
928.6155	105.2445	198.0104	35.5667	0.0349	-0.9994	0.0000	-0.40911	-0.23339	-0.41851	-0.17048
940.5080	105.7530	195.0104	37.5554	0.0349	-0.9994	0.0000	-0.03850	-0.08553	1.06227	0.10380
952.4005	106.2615	192.0104	39.5441	0.0349	-0.9994	0.0000	-0.00720	-0.20407	0.34064	0.36156
964.2930	106.7700	189.0104	41.5328	0.0349	-0.9994	0.0000	0.02407	0.37110	0.12470	0.36156
976.1855	107.2785	186.0104	43.5215	0.0349	-0.9994	0.0000	0.04920	0.41210	0.38440	0.48488
988.0780	107.7870	183.0104	45.5102	0.0349	-0.9994	0.0000	0.07339	0.40625	0.08994	0.50575
1000.0000	108.2955	180.0104	47.5000	0.0349	-0.9994	0.0000	0.09758	0.29738	0.00279	0.51205
1011.8925	108.8040	177.0104	49.4900	0.0349	-0.9994	0.0000	0.14542	0.25560	-0.00280	0.45476
1023.7850	109.3125	174.0104	51.4800	0.0349	-0.9994	0.0000	0.12767	0.23388	-0.00109	0.42349
1035.6775	109.8210	171.0104	53.4700	0.0349	-0.9994	0.0000	0.10399	0.20980	-0.00746	0.40275
1047.5700	110.3295	168.0104	55.4600	0.0349	-0.9994	0.0000	0.08429	0.18827	-0.01866	0.38606
1059.4625	110.8380	165.0104	57.4500	0.0349	-0.9994	0.0000	0.05194	0.15587	-0.04476	0.35762
1071.3550	111.3465	162.0104	59.4400	0.0349	-0.9994	0.0000	0.01850	0.12107	-0.05956	0.32236
1083.2475	111.8550	159.0104	61.4300	0.0349	-0.9994	0.0000	-0.01867	0.08280	-0.07601	0.28337
1095.1400	112.3635	156.0104	63.4200	0.0349	-0.9994	0.0000	-0.05636	0.04253	-0.08864	0.24145
1107.0325	112.8720	153.0104	65.4100	0.0349	-0.9994	0.0000	-0.09465	0.00177	-0.10125	0.19751
1118.9250	113.3805	150.0104	67.4000	0.0349	-0.9994	0.0000	-0.13321	-0.04078	-0.11589	0.15007
1130.8175	113.8890	147.0104	69.3900	0.0349	-0.9994	0.0000	-0.17063	-0.08420	-0.13065	0.10284
1142.7100	114.3975	144.0104	71.3800	0.0349	-0.9994	0.0000	-0.20824	-0.12943	-0.14647	0.05391
1154.6025	114.9060	141.0104	73.3700	0.0349	-0.9994	0.0000	-0.24497	-0.17694	-0.16118	0.00254
1166.4950	115.4145	138.0104	75.3600	0.0349	-0.9994	0.0000	-0.28157	-0.22642	-0.17903	-0.05274
1178.3875	115.9230	135.0104	77.3500	0.0349	-0.9994	0.0000	-0.31137	-0.27541	-0.19800	-0.11107
1190.2800	116.4315	132.0104	79.3400	0.0349	-0.9994	0.0000	-0.33720	-0.32189	-0.21898	-0.17217
1202.1725	116.9400	129.0104	81.3300	0.0349	-0.9994	0.0000	-0.35708	-0.36309	-0.23878	-0.23479
1214.0650	117.4485	126.0104	83.3200	0.0349	-0.9994	0.0000	-0.37227	-0.39523	-0.26008	-0.29700
1225.9575	117.9570	123.0104	85.3100	0.0349	-0.9994	0.0000	-0.37919	-0.40575	-0.27987	-0.34903
1237.8500	118.4655	120.0104	87.3000	0.0349	-0.9994	0.0000</				

401.9304	83.5114	284.8720	4.7747	0.0349	-0.9994	0.0000	0.00312	0.12193	-0.01163	0.29404
402.7007	83.5383	285.1927	5.0881	0.0348	-0.9994	0.0000	-0.00804	0.10715	-0.01932	0.28283
403.5421	83.5677	285.7928	5.3484	0.0350	-0.9994	0.0000	-0.03205	0.08177	-0.04207	0.26057
404.4627	83.5999	286.6255	5.6154	0.0349	-0.9994	0.0000	-0.05515	0.05571	-0.05467	0.23422
405.4763	83.6353	287.6243	5.9144	0.0349	-0.9994	0.0000	-0.08218	0.02657	-0.06924	0.20458
406.5985	83.6744	288.7270	6.2602	0.0349	-0.9994	0.0000	-0.10937	0.00399	-0.07815	0.17308
407.8457	83.7180	289.8857	6.6590	0.0349	-0.9994	0.0000	-0.13710	0.03583	-0.08787	0.13883
409.2372	83.7666	291.0703	7.1281	0.0349	-0.9994	0.0000	-0.16506	0.06918	-0.09893	0.10204
410.7959	83.8210	292.2653	7.6737	0.0349	-0.9994	0.0000	-0.19261	0.10368	-0.11195	0.06464
412.5518	83.8823	293.4653	8.3360	0.0349	-0.9994	0.0000	-0.21999	0.13872	-0.12483	0.02642
414.5465	83.9520	294.6720	9.1554	0.0349	-0.9994	0.0000	-0.24822	0.17679	-0.13630	-0.01320
416.8376	84.0320	295.8888	10.1905	0.0349	-0.9994	0.0000	-0.27115	0.21458	-0.15012	-0.05581
419.5102	84.1253	297.1174	11.5407	0.0349	-0.9994	0.0000	-0.29399	0.25217	-0.16615	-0.10124
422.6958	84.2366	298.3541	13.3338	0.0349	-0.9994	0.0000	-0.31500	0.28969	-0.18498	-0.14996
426.5873	84.3723	299.5831	15.6573	0.0349	-0.9994	0.0000	-0.33372	0.32631	-0.20330	-0.20220
431.4663	84.5429	300.7613	18.5741	0.0349	-0.9994	0.0000	-0.34746	0.35637	-0.22255	-0.25608
437.7104	84.7609	301.8649	21.9982	0.0349	-0.9994	0.0000	-0.35170	0.36743	-0.24050	-0.30267
445.6725	85.0390	302.9149	25.3263	0.0349	-0.9994	0.0000	-0.34822	0.35010	-0.25976	-0.32917
455.5007	85.3822	303.9025	27.8128	0.0349	-0.9994	0.0000	-0.34197	0.31601	-0.27830	-0.32679
467.0554	85.7857	304.7697	29.0953	0.0349	-0.9994	0.0000	-0.33902	0.29130	-0.29643	-0.31077
479.9289	86.2354	305.4485	29.2710	0.0349	-0.9994	0.0000	-0.33938	0.28507	-0.31139	-0.29785
493.4896	86.7090	305.9074	28.5897	0.0349	-0.9994	0.0000	-0.33714	0.28615	-0.31824	-0.29039
506.8554	87.1756	306.1461	27.1555	0.0349	-0.9994	0.0000	-0.32494	0.27582	-0.32274	-0.27552
518.4446	87.5802	306.0227	22.3965	0.0349	-0.9994	0.0000	-0.29735	0.26144	-0.33014	-0.25669
537.6157	88.0908	284.4999	20.1327	0.1564	-0.9877	0.0000	-0.21221	0.07806	-0.09689	-0.19978
581.8855	81.7671	283.6749	18.8661	0.1564	-0.9877	0.0000	-0.00825	0.11559	0.44178	0.19978
586.2026	82.4666	284.2249	16.5799	0.1644	-0.9864	-0.0019	0.09834	0.25881	0.42603	0.35567
590.6537	83.0143	285.8334	21.2190	0.0859	-0.9963	0.0013	0.08750	0.25869	0.46114	0.41474
594.6153	83.2670	287.7813	15.1211	0.0287	-0.9966	-0.0016	0.05638	0.22280	0.23687	0.40732
597.2058	83.3465	289.2299	11.1228	0.0349	-0.9994	0.0000	-0.01843	0.13098	-0.00418	0.31740
598.9975	83.4090	290.1853	8.3587	0.0349	-0.9994	0.0000	-0.02275	0.12211	-0.02103	0.25155
600.3027	83.4545	290.7427	6.4984	0.0349	-0.9994	0.0000	-0.05401	0.08673	-0.02508	0.23432
601.3155	83.4899	290.9936	5.3672	0.0349	-0.9994	0.0000	-0.05898	0.07873	-0.02633	0.22204
602.1348	83.5185	291.1198	4.3437	0.0349	-0.9994	0.0000	-0.07256	0.07381	-0.01283	0.21458
602.9127	83.5457	291.3783	4.7989	0.0349	-0.9994	0.0000	-0.07831	0.05111	-0.03165	0.19742
603.7732	83.5758	291.8648	1.1868	0.0349	-0.9994	0.0000	-0.09567	0.03228	-0.03165	0.17691
604.7083	83.6084	292.5319	0.3895	0.0349	-0.9994	0.0000	-0.11060	0.01377	-0.04357	0.15425
605.7211	83.6438	293.3217	0.6153	0.0349	-0.9994	0.0000	-0.12858	0.00828	-0.05765	0.13015
606.8219	83.6822	294.1861	0.9686	0.0349	-0.9994	0.0000	-0.14629	0.03124	-0.06614	0.10342
608.0253	83.7243	294.0826	6.3277	0.0349	-0.9994	0.0000	-0.16468	0.05571	-0.07502	0.07369
609.3517	83.7706	296.0238	6.7731	0.0349	-0.9994	0.0000	-0.18329	0.08184	-0.08619	0.04249
610.8859	83.8221	296.9741	7.3147	0.0349	-0.9994	0.0000	-0.20210	0.10958	-0.10066	0.01000
612.4552	83.8800	297.9448	8.0054	0.0349	-0.9994	0.0000	-0.22135	0.13942	-0.11486	-0.02473
614.0733	83.9460	298.9415	8.8838	0.0349	-0.9994	0.0000	-0.24080	0.17127	-0.12732	-0.06417
616.5534	84.0221	299.9674	10.0030	0.0349	-0.9994	0.0000	-0.26085	0.20585	-0.14124	-0.10920
619.1158	84.1116	301.0193	11.4636	0.0349	-0.9994	0.0000	-0.28120	0.24304	-0.15809	-0.16031
622.1986	84.2193	302.0834	13.3968	0.0349	-0.9994	0.0000	-0.30175	0.28270	-0.17889	-0.21466
625.9966	84.3519	303.1293	15.8371	0.0349	-0.9994	0.0000	-0.32076	0.31993	-0.20047	-0.26835
630.7882	84.5192	304.0891	18.8245	0.0349	-0.9994	0.0000	-0.33664	0.34878	-0.22439	-0.31285
636.9399	84.7340	304.9331	22.2757	0.0349	-0.9994	0.0000	-0.34449	0.35868	-0.24694	-0.33058
644.7720	85.0075	305.7108	25.5767	0.0349	-0.9994	0.0000	-0.34373	0.34225	-0.26787	-0.30588
654.4028	85.3439	306.4413	28.0696	0.0349	-0.9994	0.0000	-0.33871	0.30988	-0.28489	-0.31273
665.6927	85.7381	307.0891	29.4008	0.0349	-0.9994	0.0000	-0.33528	0.28764	-0.31116	-0.29698
678.2496	86.1767	307.6078	29.5940	0.0349	-0.9994	0.0000	-0.33036	0.27510	-0.31531	-0.28662
691.4718	86.6385	307.9769	28.2333	0.0349	-0.9994	0.0000	-0.32356	0.26556	-0.31826	-0.27155
704.5568	87.0953	308.2249	23.2569	0.0349	-0.9994	0.0000	-0.31799	0.25515	-0.32626	-0.25874
718.0041	87.5018	308.3133	17.7088	0.1564	-0.9877	0.0000	-0.31809	0.14537	-0.01872	-0.01910
732.0131	87.9696	289.7360	15.5885	0.1570	-0.9876	0.0003	-0.02976	0.15964	-0.27714	-0.25657
746.6894	88.4996	288.5774	13.2766	0.1642	-0.9864	-0.0048	0.06389	0.24024	-0.24512	-0.36000
761.5178	89.127	290.5990	18.2422	0.0485	-0.9988	0.0109	0.07172	0.24870	-0.30500	-0.40637
777.6504	89.7827	292.9324	12.6102	0.0339	-0.9994	-0.0007	-0.00198	0.16109	-0.12024	-0.31702
794.7735	90.4605	294.5705	9.1066	0.0349	-0.9994	0.0000	-0.04919	0.09581	-0.01394	-0.25241
812.4264	91.1886	296.2584	6.8032	0.0349	-0.9994	0.0000	-0.05937	0.08130	-0.01374	-0.23517
830.7419	91.9338	296.5621	5.3224	0.0349	-0.9994	0.0000	-0.08346	0.05258	-0.02537	-0.20050
849.2973	92.6938	296.7092	4.4802	0.0349	-0.9994	0.0000	-0.09066	0.04049	-0.01017	-0.18192
869.0611	93.4752	296.9388	3.7081	0.0350	-0.9994	0.0000	-0.10244	0.02797	-0.01409	-0.17193
889.2962	94.2762	297.3441	4.1510	0.0349	-0.9994	0.0000	-0.10699	0.02010	-0.01793	-0.16618
909.6678	95.0970	297.8807	4.4692	0.0348	-0.9994	0.0000	-0.11863	0.00548	-0.03104	-0.15532
930.1134	95.9400	298.5030	4.7412	0.0349	-0.9994	0.0000	-0.12789	0.00898	-0.03054	-0.14353
950.6325	96.7556	299.1788	5.0170	0.0349	-0.9994	0.0000	-0.13894	0.02457	-0.05122	-0.11830
971.1414	97.5717	299.8895	5.3347	0.0349	-0.9994	0.0000	-0.14992	0.04108	-0.05693	-0.10126
992.6535	98.3949	300.6292	5.6083	0.0349	-0.9994	0.0000	-0.16151	0.05815	-0.06121	-0.08295
1014.3335	99.2115	301.3996	5.8191	0.0349	-0.9994	0.0000	-0.17350	0.07617	-0.06765	-0.06222
1036.8848	100.0351	302.2070	6.134	0.0349	-0.9994	0.0000	-0.18595	0.09522	-0.07799	-0.04017
1060.1664	100.8591	303.0593	6.4264	0.0349	-0.9994	0.0000	-0.19879	0.11540	-0.08732	-0.01813
1084.1871	101.6844	303.9574	6.6764	0.0349	-0.9994	0.0000	-0.21193	0.13692	-0.09327	-0.00469
1108.9559	102.5115	304.8921	6.9013	0.0349	-0.9994	0.0000	-0.22549	0.16049	-0.09893	-0.03060
1134.2797	103.341	305.8380	7.1289	0.0349	-0.9994	0.0000	-0.23896	0.18613	-0.10745	-0.06152
1160.0559	104.1771	306.7483	7.3941	0.0349	-0.9994	0.0000	-0.25261	0.21509	-0.12110	-0.09869
1186.7960	105.0193	307.5201	7.6289	0.0349	-0.9994	0.0000	-0.26634	0.24657	-0.13796	-0.14268
1214.5425	105.8629	308.2299	7.8289	0.0349	-0.9994	0.0000	-0.28031	0.27809	-0.15905	-0.19321
1243.2973	106.7092	308.8978	8.0336	0.0349	-0.9994	0.0000	-0.29003	0.29778	-0.18078	-0.24105
1273.0611	107.5573	309.5430	8.2415	0.0349	-0.9994	0.0000	-0.29495	0.29383	-0.20442	-0.27189
1303.8355	108.4099	310.1110	8.4440	0.0349	-0.9994	0.0000	-0.29674	0.27372	-0.22868	-0.27707
1335.6176	109.2629	310.6219	8.6410	0.0349	-0.9994	0.0000	-0.29914	0.25703	-0.25216	-0.27102
1368.4011	110.1162	311.1621	8.8315	0.0349	-0.9994	0.0000	-0.30413	0.23537	-0.27290	-0.26484
1402.1876	110.9703	311.7373	9.0170	0.0349	-0.9994	0.0000	-0.30810	0.20848	-0.29641	-0.25350
1437.0722	111.8253	312.3504	9.2007	0.0349	-0.9994	0.0000	-0.30378	0.18151	-0.30022	-0.23521
1473.0563	112.6813	313.0029	9.3815	0.0349	-0.9994	0.0000	-0.27771	0.15357	-0.31587	-0.21552
1510.1406	113.5383	313.6953	9.5588	0.1564	-0.9877	0.0000	-0.21173	0.05539	-0.01354	-0.06286
1548.3253	114.3963	291.1014	12.2676	0.1615	-0.9869	0.0012	0.08045	0.18545	0.10937	0.271

408.0050	83.7236	304.9075	5.6927	0.0349	-0.9994	0.0000	-0.15447	-0.09865	-0.10860	0.01819
409.2743	83.7679	305.5648	6.3924	0.0349	-0.9994	0.0000	-0.16698	-0.11687	-0.12418	-0.00306
410.7380	83.8190	306.2753	7.3136	0.0349	-0.9994	0.0000	-0.18074	-0.13698	-0.14036	-0.02577
412.4542	83.8789	307.0487	8.4884	0.0349	-0.9994	0.0000	-0.19552	-0.15916	-0.15289	-0.05018
414.4936	83.9502	307.8840	9.9489	0.0349	-0.9994	0.0000	-0.21174	-0.18460	-0.16393	-0.07878
416.9590	84.0363	308.7653	11.8421	0.0349	-0.9994	0.0000	-0.22824	-0.21261	-0.17599	-0.11251
420.0141	84.1429	309.6542	14.3502	0.0349	-0.9994	0.0000	-0.24659	-0.24431	-0.19301	-0.15343
423.8593	84.2772	310.4856	17.3487	0.0349	-0.9994	0.0000	-0.26327	-0.27373	-0.20920	-0.19730
428.7528	84.4481	311.1080	20.7631	0.0349	-0.9994	0.0000	-0.28257	-0.29884	-0.22808	-0.24278
435.0060	84.6665	311.4751	24.5586	0.0349	-0.9994	0.0000	-0.29447	-0.30819	-0.24232	-0.27988
442.8264	84.9395	311.7399	28.1045	0.0349	-0.9994	0.0000	-0.29829	-0.29604	-0.25406	-0.29677
452.2562	85.2683	311.9893	31.0166	0.0349	-0.9994	0.0000	-0.29866	-0.27173	-0.26553	-0.29334
463.1743	85.6501	312.2179	33.2921	0.0349	-0.9994	0.0000	-0.29887	-0.25176	-0.27573	-0.28040
475.2502	86.0719	312.4177	35.2902	0.0349	-0.9994	0.0000	-0.30007	-0.24338	-0.28436	-0.26797
487.9561	86.5156	312.5852	37.0708	0.0349	-0.9994	0.0000	-0.29956	-0.24332	-0.28854	-0.25975
500.6508	86.9589	312.7026	38.9959	0.0349	-0.9994	0.0000	-0.29120	-0.23744	-0.29630	-0.24934
511.5132	87.3382	313.0117	40.4665	0.0349	-0.9994	0.0000	-0.27736	-0.23930	-0.30692	-0.25340
385.9655	82.4135	296.1500	8.4680	0.1564	-0.9877	0.0000	-0.22796	0.01383	0.13410	0.13801
387.9320	82.7324	296.6582	10.0197	0.1661	-0.9861	-0.0050	0.08601	0.22259	0.21298	0.31653
389.8223	83.0154	297.8507	9.2521	0.1278	-0.9918	0.0024	0.01665	0.22966	0.30060	0.37754
392.2881	83.1798	299.8198	16.9568	0.0337	-0.9994	-0.0025	0.10211	0.26934	0.38355	0.41404
394.9988	83.2694	301.9815	11.2560	0.0349	-0.9994	0.0000	-0.02464	0.13835	0.19839	0.28002
396.9332	83.3369	303.4428	7.8190	0.0349	-0.9994	0.0000	-0.02571	0.11209	0.22764	0.25565
398.3651	83.3869	304.4456	5.6307	0.0349	-0.9994	0.0000	-0.04452	0.09092	0.18875	0.23218
399.4440	83.4246	305.1297	4.2101	0.0349	-0.9994	0.0000	-0.06007	0.07009	0.18642	0.20711
400.2782	83.4537	305.5811	3.3042	0.0349	-0.9994	0.0000	-0.07022	0.05538	0.17809	0.18828
400.9356	83.4767	305.8898	2.6826	0.0349	-0.9994	0.0000	-0.07896	0.04667	0.17708	0.17875
401.5358	83.4976	306.1864	3.0095	0.0349	-0.9994	0.0000	-0.08403	0.04007	0.17370	0.17378
402.1797	83.5201	306.5380	3.2989	0.0349	-0.9994	0.0000	-0.09046	0.03207	0.16892	0.16617
402.8749	83.5444	306.9325	3.5910	0.0349	-0.9994	0.0000	-0.09563	0.02420	0.16257	0.15717
403.6340	83.5709	307.3633	3.9153	0.0350	-0.9994	0.0000	-0.10062	0.01619	0.15440	0.14813
404.4729	83.6002	307.8295	4.3041	0.0349	-0.9994	0.0000	-0.10510	0.00804	0.14707	0.13987
405.4109	83.6330	308.3337	4.7703	0.0349	-0.9994	0.0000	-0.10949	-0.00090	0.13927	0.13057
406.4773	83.6702	308.8841	5.4023	0.0349	-0.9994	0.0000	-0.11396	-0.01090	0.12829	0.11888
407.7077	83.7132	309.4906	6.1696	0.0349	-0.9994	0.0000	-0.11848	-0.02216	0.11267	0.10433
409.1489	83.7635	310.1649	7.1978	0.0349	-0.9994	0.0000	-0.12369	-0.03537	0.09500	0.08757
410.8666	83.8235	310.9203	8.5164	0.0349	-0.9994	0.0000	-0.12938	-0.05116	0.07823	0.06795
412.9391	83.8958	311.7547	10.1446	0.0349	-0.9994	0.0000	-0.13675	-0.07160	0.05927	0.04258
415.4802	83.9846	312.6460	12.2762	0.0349	-0.9994	0.0000	-0.14408	-0.09660	0.03647	0.00996
418.6697	84.0960	313.5405	15.1145	0.0349	-0.9994	0.0000	-0.15403	-0.13057	0.00286	-0.03496
422.7081	84.2370	314.3561	18.5183	0.0349	-0.9994	0.0000	-0.16276	-0.17017	-0.03359	-0.08864
427.8113	84.4152	314.8884	22.3591	0.0349	-0.9994	0.0000	-0.17536	-0.21228	-0.07962	-0.15401
434.2185	84.6390	315.0812	26.7434	0.0349	-0.9994	0.0000	-0.18815	-0.23227	-0.11447	-0.20587
442.0945	84.9140	315.1545	31.1679	0.0349	-0.9994	0.0000	-0.20045	-0.23911	-0.14353	-0.22618
451.4866	85.2420	315.2244	35.2051	0.0349	-0.9994	0.0000	-0.21328	-0.21872	-0.17491	-0.22823
462.2968	85.6195	315.2503	38.2765	0.0349	-0.9994	0.0000	-0.22622	-0.21195	-0.20500	-0.22548
474.2256	86.0360	315.3488	39.8755	0.0349	-0.9994	0.0000	-0.24174	-0.21465	-0.23181	-0.22486
486.7727	86.4742	315.3969	39.6844	0.0349	-0.9994	0.0000	-0.25849	-0.22633	-0.25168	-0.22911
499.3278	86.9127	315.4430	37.5988	0.0349	-0.9994	0.0000	-0.26936	-0.23002	-0.28340	-0.22795
509.5863	87.2709	315.5940	22.5629	0.0349	-0.9994	0.0000	-0.25944	-0.25999	-0.30338	-0.26843

pylon for upper

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
405.3636	68.0848	257.3818	2.1302	-0.9991	0.0003	0.0436	0.83153	0.75812	0.28509	1.02763
405.4189	67.7939	258.1700	2.3591	-0.9955	0.0003	0.0946	0.71578	0.66488	0.16700	0.95166
405.5279	67.4705	259.0208	2.6295	-0.9876	0.0003	0.1569	0.67323	0.61661	0.13805	0.94321
405.7138	67.1111	259.8382	2.9576	-0.9716	0.0004	0.2367	0.57055	0.52576	0.05666	0.87171
406.0002	66.7111	260.9263	3.3562	-0.9487	0.0004	0.3162	0.48464	0.44689	0.01759	0.80926
406.3986	66.2623	263.1477	3.8548	-0.9252	0.0005	0.3796	0.38450	0.35829	-0.03440	0.72240
406.9357	65.7580	265.7641	4.4786	-0.8882	0.0006	0.4595	0.26458	0.25246	-0.10384	0.62301
407.6607	65.1888	268.3982	5.3459	-0.8434	0.0006	0.5373	0.15229	0.15672	-0.15717	0.52213
408.6078	64.5382	265.7641	6.4252	-0.8014	0.0009	0.5981	0.05086	0.07025	-0.17603	0.42207
409.8381	63.7863	267.2582	7.9340	-0.7451	0.0008	0.6669	-0.07786	-0.04198	-0.23647	0.29286
411.4410	62.9047	268.9042	10.0196	-0.6910	0.0010	0.7228	-0.16526	-0.11932	-0.23433	0.19046
413.5298	61.8637	270.7238	12.9469	-0.6272	0.0009	0.7789	-0.25870	-0.20357	-0.25566	0.07660
416.2596	60.6291	272.7237	17.1001	-0.5637	0.0009	0.8260	-0.33748	-0.28185	-0.25111	-0.03100
419.8252	59.1547	274.9507	23.0552	-0.4982	0.0009	0.8671	-0.38913	-0.34301	-0.24556	-0.12583
424.4854	57.4409	277.3850	31.6675	-0.4339	0.0013	0.9010	-0.41085	-0.38086	-0.21971	-0.20188
430.5391	55.4768	279.9862	43.5830	-0.3624	0.0008	0.9320	-0.43587	-0.42475	-0.23216	-0.27577
438.2630	53.1964	282.6677	59.8393	-0.2995	0.0003	0.9541	-0.41572	-0.41105	-0.23388	-0.32574
447.9002	50.6262	285.3239	81.4309	-0.2375	0.0004	0.9714	-0.37701	-0.35059	-0.20735	-0.36958
459.6024	47.9262	287.7880	108.0938	-0.1790	0.0011	0.9839	-0.34484	-0.28955	-0.24430	-0.39264
473.3315	45.4708	289.8006	137.4689	-0.1148	0.0011	0.9934	-0.34480	-0.27727	-0.28597	-0.29310
488.7430	43.7873	291.1021	163.6295	-0.0558	0.0004	0.9984	-0.34041	-0.29268	-0.33042	-0.29672
505.1122	43.2819	291.5533	179.1431	-0.0001	0.0001	1.0000	-0.33662	-0.29496	-0.37807	-0.29744
521.4813	44.1483	291.0950	179.2331	0.0567	0.0003	0.9999	-0.33213	-0.28776	-0.43053	-0.28808
536.5912	46.1623	289.7937	158.7496	0.1187	-0.0006	0.9926	-0.33213	-0.28776	-0.43053	-0.28808
405.3644	70.3356	257.3840	2.0608	-0.9990	0.0002	0.0436	0.86981	0.80852	0.29110	1.06150
405.4205	70.6031	258.1783	2.2824	-0.9954	0.0003	0.0946	0.74592	0.70615	0.14270	0.97156
405.5313	70.3451	259.0362	2.6437	-0.9874	0.0003	0.1582	0.69535	0.65338	0.08140	0.96195
405.7207	70.0591	259.8362	3.0437	-0.9710	0.0004	0.2390	0.57398	0.54803	-0.03236	0.87824
406.0122	69.7416	260.9582	3.4440	-0.9480	0.0004	0.3182	0.47517	0.45890	-0.09454	0.80928
406.4124	69.3362	262.0353	3.7240	-0.9240	0.0005	0.3823	0.36491	0.36281	-0.16318	0.71546
406.7643	68.9883	263.1986	4.3221	-0.8861	0.0005	0.4635	0.22874	0.24299	-0.25596	0.60900
407.7014	68.5409	264.4587	5.1521	-0.8415	0.0005	0.5403	0.10450	0.13587	-0.31939	0.50336
408.6640	68.0315	265.8341	6.1847	-0.7987	0.0008	0.6017	-0.00711	-0.04021	-0.34920	0.39790
409.9132	67.4454	267.3375	7.6241	-0.7423	0.0007	0.6701	-0.14504	-0.08097	-0.41423	0.26297
411.5389	66.7616	268.9923	9.6105	-0.6879	0.0009	0.7258	-0.25000	-0.17519	-0.42523	0.14675
413.6548	65.9591	270.8199	12.3879	-0.6241	0.0007	0.7814	-0.35714	-0.27420	-0.45533	0.02081
416.4166	65.0145	272.8360	16.3159	-0.5605	0.0008	0.8282	-0.43818	-0.35648	-0.44939	-0.07189
420.0193	63.8966	275.0570	21.9268	-0.4951	0.0008	0.8688	-0.49811	-0.42938	-0.44335	-0.17189
424.7190	62.6145	277.4901	29.9770	-0.4307	0.0011	0.9025	-0.52932	-0.48375	-0.42144	-0.29005
430.8106	61.1707	280.0870	41.0749	-0.3604	0.0007	0.9328	-0.54632	-0.51731	-0.40446	-0.37893
438.5722	59.5266	282.7625	56.1405	-0.2974	0.0002	0.9548	-0.52932	-0.48721	-0.39803	-0.43035
448.2448	57.7200	285.4055	75.9701	-0.2354	0.0003	0.9843	-0.48721	-0.47747	-0.39419	-0.44404
459.9700	55.8941	287.8458	100.2050	-0.1766	0.0003	0.9935	-0.48721	-0.47747	-0.39419	-0.44404
473.6928	54.3511	289.8329	126.5143	-0.1137	0.0010	0.9935	-0.48721	-0.47747	-0.39419	-0.44404
489.0552	53.4931	291.1157	149.5345	-0.0550	0.0004	0.9935	-0.48721	-0.47747	-0.39419	-0.44404
505.3416	53.5991	291.0839	162.7450	0.0006	0.0001	1.0000	-0.48721	-0.47747	-0.39419	-0.44404
521.6207	54.7638	289.7800	162.1622	0.0577	0.0003	0.9933	-0.48721	-0.47747	-0.39419	-0.44404
536.0919	56.7131	289.8600	131.2804	0.1171	-0.0007	0.9931	-0.48721	-0.47747	-0.39419	-0.44404
405.3652	73.4287	257.3860	2.1917	-0.9990	0.0003	0.0440	0.91027	0.85572	0.29927	1.11078
405.4221	73.7248	258.1862	2.4220	-0.9954	0.0003	0.0959	0.79020	0.75381	0.16064	1.01767
405.5326	73.0504	259.0507	2.8367	-0.9872	0.0003	0.1596	0.70934	0.70934	0.10827	1.01290
405.7272	72.8313	259.8835	3.2655	-0.9705	0.0004	0.2411	0.62059	0.59895	0.00450	0.91991
406.0234	72.5890	260.9882	3.6555	-0.9474	0.0004	0.3202	0.52054	0.50878	-0.07107	0.85164
406.4349	72.3189	262.0742	4.0508	-0.9230	0.0004	0.3849	0.40492	0.40823	-0.14916	0.75687
406.9911	72.0177	263.2464	4.3985	-0.8842	0.0005	0.4671	0.26191	0.28251	-0.24684	0.65004
407.7397	71.6808	264.5154	4.7569	-0.8397	0.0004	0.5430	0.13062	0.16840	-0.31081	0.54036
408.7165	71.2994	265.8997	5.6991	-0.7962	0.0006	0.6051	0.00987	0.06405	-0.34761	0.42761
409.9832	70.8632	267.4115	7.0077	-0.7397	0.0006	0.6730	-0.13547	-0.06481	-0.42378	0.28768
411.6301	70.3579	269.0745	8.8084	-0.6850	0.0007	0.7286	-0.25084	-0.17696	-0.47999	0.13324
413.7712	69.7697	270.9092	11.3124	-0.6212	0.0006	0.7837	-0.36864	-0.28063	-0.46184	0.07798
416.5624	69.0846	272.9310	14.8360	-0.5575	0.0006	0.8302	-0.46896	-0.37165	-0.46151	0.09367
420.1988	68.2840	275.1554	19.8379	-0.4922	0.0006	0.8705	-0.53238	-0.45375	-0.46091	0.21048
424.9342	67.3834	277.5870	26.6455	-0.4270	0.0009	0.9039	-0.55823	-0.51605	-0.44156	0.31301
431.0598	66.3954	280.1796	36.9370	-0.3586	0.0006	0.9335	-0.57278	-0.56698	-0.43489	0.40780
438.8543	65.3037	282.8489	46.8902	-0.2955	0.0001	0.9553	-0.54671	-0.56245	-0.40904	0.46462
448.5572	64.1530	285.4786	66.5955	-0.2334	0.0001	0.9724	-0.50560	-0.50199	-0.40000	0.47567
459.3014	62.8841	287.8980	86.8742	-0.1745	0.0009	0.9847	-0.46736	-0.42446	-0.39238	0.44588
474.0774	62.0930	289.8619	108.3243	-0.1127	0.0010	0.9936	-0.45005	-0.38627	-0.40321	0.41179
489.0321	62.6673	291.1278	126.4203	-0.0543	0.0003	0.9985	-0.43484	-0.37412	-0.40783	0.38713
505.2434	62.0930	291.5517	135.9858	0.0013	0.0001	1.0000	-0.41870	-0.36662	-0.41123	0.37162
521.7425	64.0233	291.0741	134.1585	0.0584	0.0003	0.9983	-0.40286	-0.35246	-0.42713	0.35502
536.6623	65.8410	289.9171	99.3102	0.1155	-0.0008	0.9933	-0.38210	-0.32465	-0.43756	0.32340
405.3659	75.7816	257.3879	1.7187	-0.9990	0.0003	0.0442	0.95619	0.90819	0.31047	1.15685
405.4235	75.6488	258.1933	1.9015	-0.9953	0.0003	0.0963	0.82946	0.79977	0.16972	1.05992
405.5375	75.5022	259.0639	2.1166	-0.9870	0.0003	0.1607	0.78889	0.75794	0.12989	1.05051
405.7332	75.3411	260.0033	2.3755	-0.9700	0.0004	0.2429	0.65390	0.64006	0.01454	0.94733
406.0335	75.1639	261.0153	2.6885	-0.9468	0.0003	0.3219	0.55075	0.54699	-0.06621	0.88007
406.4509	74.9674	262.1093	3.0791	-0.9220	0.0004	0.3871	0.43015	0.43015	-0.15834	0.78739
407.0153	74.7496	263.2894	3.5613	-0.8825	0.0004	0.4703	0.28107	0.30564	-0.26045	0.67850
407.7742	74.5078	264.5664	4.2271	-0.8382	0.0004	0.5454	0.14401	0.18929	-0.32581	0.56240
408.7636	74.2361	265.9586	5.0525	-0.7939	0.0005	0.6080	0.01543	0.07690	-0.37171	0.44167
410.0461	73.9280	267.4779	6.1944	-0.7374	0.0005	0.6750	-0.13613	-0.05833	-0.44099	0.29665
411.7117	73.5744	269.1479	7.7602	-0.6824	0.0005	0.7310	-0.25902	-0.17114	-0.45972	0.16658
413.8750	73.1674	270.9889	9.9243	-0.6186	0.0005	0.7857	-0.38397	-0.29063	-0.49399	0.02470
416.6918	72.7002	273.0133	13.9505	-0.5549	0.0005	0.8319	-0.47853	-0.38969	-0.49537	-0.10428
420.3576	72.1640	275.2425	17.2134	-0.4897	0.0005	0.8719	-0.54902	-0.47743	-0.49612	-0.22739
425.1235	71.5773	277.5723	23.1878	-0.4252	0.0008	0.9051	-0.58670	-0.54566	-0.47865	-0.33665
431.2774	70.9589	280.2604	31.2687	-0.3570	0.0005	0.9341	-0.59798	-0.59793	-0.46810	-0.43402
439.0988	70.3080	282.9239	41.9726	-0.2939	0.0000	0.9558	-0.56920	-0.59332	-0.44093	-0.49354
448.8752	69.6710	285.5432	55.5596	-0.2318	0.0000	0.9728	-0.52547	-0.53064	-0.42848	-0.50496
460.5820	69.1516</									

406.4647	77.2786	262.1399	2.6583	-0.9212	0.0004	0.3891	0.43123	0.45670	-0.16386	0.80769
407.0364	77.1298	263.3269	3.0691	-0.8810	0.0004	0.4730	0.28006	0.32127	-0.26869	0.69346
407.8042	76.9664	264.6108	3.6346	-0.8368	0.0003	0.5475	0.14240	0.19825	-0.33323	0.57187
408.8045	76.7848	266.0098	4.3342	-0.7920	0.0005	0.6106	0.01115	0.08152	-0.38264	0.44699
410.1005	76.5813	267.5354	5.2982	-0.7354	0.0004	0.6777	-0.14218	-0.05744	-0.45335	0.30068
411.7821	76.3510	269.2114	6.6152	-0.6802	0.0005	0.7330	-0.26804	-0.17445	-0.47716	0.16735
413.9643	76.0904	271.0574	8.4244	-0.6164	0.0004	0.7874	-0.39540	-0.29732	-0.51391	0.02073
416.8026	75.7976	273.0876	10.9375	-0.5527	0.0003	0.8334	-0.49176	-0.40148	-0.51444	-0.11263
420.4928	75.4704	275.3166	14.4492	-0.4876	0.0004	0.8731	-0.56281	-0.49117	-0.51133	-0.23890
425.2838	75.1282	277.7445	19.3067	-0.4230	0.0007	0.9061	-0.60020	-0.56167	-0.49211	-0.35114
431.4602	74.7919	280.3284	25.7950	-0.3587	0.0004	0.9346	-0.60853	-0.61333	-0.47880	-0.44910
439.3020	74.4697	282.9863	34.2144	-0.2925	-0.0001	0.9563	-0.57838	-0.60703	-0.45266	-0.50952
449.0454	74.2049	285.5954	44.7195	-0.2304	0.0000	0.9731	-0.53257	-0.53923	-0.42921	-0.58332
460.8095	74.0797	287.9783	56.0679	-0.1712	0.0007	0.9838	-0.48556	-0.45087	-0.42711	-0.47987
474.5019	74.2216	289.9056	68.4482	-0.1122	0.0009	0.9898	-0.46598	-0.40293	-0.42697	-0.43232
489.7407	74.7611	291.1457	79.0980	-0.0533	0.0003	0.9986	-0.44940	-0.38812	-0.42455	-0.40106
505.8351	75.7387	291.5508	88.1858	0.0023	0.0000	1.0000	-0.43048	-0.37653	-0.41959	-0.38023
521.9149	77.0872	291.0605	97.6698	0.0594	0.0003	0.9982	-0.40766	-0.35438	-0.43011	-0.35486
535.0737	78.4790	289.9954	107.2578	0.1127	-0.0009	0.9936	-0.36561	-0.30819	-0.41467	-0.30272
405.3670	79.6087	257.3910	1.2578	-0.9990	0.0003	0.0445	0.93644	0.92789	0.35374	1.19443
405.4257	79.5455	258.2049	1.3899	-0.9953	0.0003	0.0972	0.80845	0.81792	0.20058	1.08895
405.5424	79.4769	259.0852	1.5446	-0.9867	0.0003	0.1625	0.76091	0.77246	0.18659	1.06317
405.7427	79.4029	260.0354	1.7302	-0.9693	0.0003	0.2459	0.62479	0.65157	0.04915	0.96085
406.0499	79.3234	261.0592	1.9535	-0.9459	0.0003	0.3246	0.51923	0.55411	-0.05927	0.90293
406.4765	79.2369	262.1658	2.2315	-0.9205	0.0003	0.3907	0.40048	0.44681	-0.16468	0.81196
407.0543	79.1434	263.3587	2.5722	-0.8798	0.0003	0.4753	0.25379	0.31191	-0.27223	0.69047
407.8296	79.0427	264.6483	3.0399	-0.8357	0.0003	0.5492	0.12142	0.19011	-0.33897	0.56628
408.8390	78.9328	266.0529	3.6174	-0.7903	0.0004	0.6127	-0.00723	0.07265	-0.39163	0.44132
410.1462	78.8123	267.5837	4.4103	-0.7337	0.0003	0.6795	-0.15686	-0.06604	-0.46275	0.29616
411.8411	78.6791	269.2645	5.4896	-0.6784	0.0004	0.7347	-0.28101	-0.18384	-0.49103	0.16156
414.0389	78.5329	271.1147	6.9640	-0.6146	0.0003	0.7888	-0.40705	-0.30814	-0.53269	0.01298
416.8948	78.3749	273.1477	8.9994	-0.5509	0.0002	0.8346	-0.50267	-0.41303	-0.53534	-0.12244
420.6047	78.2074	275.3780	11.8213	-0.4859	0.0003	0.8740	-0.57254	-0.50344	-0.52892	-0.24955
425.4156	78.0483	277.8038	15.6761	-0.4212	0.0006	0.9070	-0.60905	-0.57328	-0.50674	-0.36265
431.6092	77.9179	280.3838	20.7600	-0.3546	0.0003	0.9350	-0.61513	-0.62336	-0.49029	-0.45990
439.4661	77.8289	283.0367	27.2684	-0.2914	-0.0001	0.9566	-0.58398	-0.61533	-0.46416	-0.51977
449.2209	77.8176	285.6371	35.1255	-0.2393	0.0001	0.9734	-0.53691	-0.54544	-0.44357	-0.51655
460.9881	77.9285	288.0207	45.6904	-0.1790	0.0006	0.9844	-0.49281	-0.45504	-0.43357	-0.48534
474.6982	78.2986	289.9056	58.5545	-0.1107	0.0009	0.9939	-0.46574	-0.40519	-0.43008	-0.43512
489.8763	78.9544	291.1457	70.0529	-0.0529	0.0003	0.9986	-0.45059	-0.38983	-0.42601	-0.40268
505.9788	79.9211	291.5505	80.0026	0.0026	0.0000	1.0000	-0.43003	-0.37667	-0.41887	-0.38005
521.9684	81.1277	291.0562	92.8183	0.0597	0.0002	0.9982	-0.40329	-0.35140	-0.42711	-0.35144
535.8994	82.2757	290.0185	107.4507	0.1117	-0.0009	0.9937	-0.35241	-0.29652	-0.40904	-0.28971
405.3674	81.0713	257.3921	1.0356	-0.9990	0.0003	0.0445	0.83282	0.86925	0.37814	1.18451
405.4265	81.0328	258.2093	1.1438	-0.9952	0.0003	0.0976	0.73135	0.77433	0.21981	1.07991
405.5442	80.9918	259.0933	1.2703	-0.9866	0.0003	0.1632	0.68535	0.73007	0.20520	1.05357
405.7463	80.9485	260.0476	1.4217	-0.9690	0.0003	0.2471	0.56818	0.62024	0.05408	0.95538
406.0562	80.9033	261.0758	1.6037	-0.9455	0.0003	0.3256	0.46950	0.52585	-0.05900	0.89622
406.4862	80.8555	262.1872	1.8300	-0.9199	0.0003	0.3921	0.35792	0.42163	-0.16138	0.80140
407.0690	80.8055	263.3849	2.1064	-0.8788	0.0003	0.4772	0.22009	0.29088	-0.27125	0.67593
407.8505	80.7539	264.6791	2.4852	-0.8347	0.0003	0.5506	0.09598	0.17269	-0.34140	0.55286
408.8674	80.6999	266.0883	2.9519	-0.7890	0.0003	0.6144	-0.02808	0.05645	-0.39974	0.42920
410.1837	80.6437	267.5234	3.5908	-0.7324	0.0002	0.6809	-0.17141	-0.07939	-0.47309	0.28508
411.8895	80.5855	269.3081	4.4578	-0.6769	0.0003	0.7361	-0.29264	-0.19616	-0.50256	0.14983
414.0997	80.5267	271.1614	5.6362	-0.6131	0.0002	0.7900	-0.41666	-0.32009	-0.54359	0.00133
416.9698	80.4708	273.1966	7.5740	-0.5494	0.0002	0.8356	-0.51112	-0.42479	-0.54514	-0.13422
420.6953	80.4225	275.4277	9.4812	-0.4844	0.0002	0.8748	-0.57916	-0.51401	-0.53636	-0.26069
425.5215	80.3973	277.8516	12.4895	-0.4197	0.0005	0.9077	-0.61373	-0.58217	-0.51337	-0.37274
431.7281	80.4131	280.4280	16.4094	-0.3537	0.0003	0.9354	-0.61720	-0.62954	-0.49544	-0.46788
439.5957	80.4835	283.0766	21.3434	-0.2905	0.0002	0.9569	-0.58478	-0.61909	-0.46916	-0.52588
449.3579	80.6369	285.6697	28.1469	-0.2388	0.0006	0.9736	-0.53693	-0.54503	-0.44357	-0.51655
460.9881	80.9185	288.0294	38.5749	-0.1792	0.0006	0.9846	-0.49476	-0.45504	-0.43357	-0.48534
474.7336	80.9706	289.9320	50.4200	-0.1103	0.0008	0.9939	-0.46594	-0.40423	-0.43070	-0.43486
489.9763	82.0444	291.1562	61.1738	-0.0527	0.0003	0.9986	-0.44875	-0.38907	-0.42639	-0.40215
505.9963	82.9234	291.5503	70.4106	0.0028	0.0000	1.0000	-0.42761	-0.37535	-0.41789	-0.37879
521.0060	83.9451	291.0533	80.2775	0.0600	0.0002	0.9982	-0.39791	-0.34729	-0.42287	-0.34742
534.7821	84.8592	290.0341	92.4351	0.1110	-0.0009	0.9938	-0.33677	-0.28256	-0.39739	-0.27530
405.3678	82.2607	257.3931	0.8359	-0.9990	0.0003	0.0446	0.74956	0.81108	0.39910	1.16997
405.4272	82.2415	258.2129	0.9228	-0.9952	0.0003	0.0978	0.68514	0.73549	0.23365	1.06961
405.5457	82.2219	259.0999	1.0244	-0.9865	0.0003	0.1638	0.64390	0.69482	0.21016	1.04782
405.7493	82.2026	260.0575	1.1457	-0.9688	0.0003	0.2480	0.54891	0.59711	0.05234	0.95023
406.0612	82.1841	261.0893	1.2914	-0.9452	0.0003	0.3264	0.45802	0.50727	-0.05852	0.88513
406.4940	82.1663	262.2046	1.4723	-0.9195	0.0003	0.3932	0.35146	0.40560	-0.15786	0.78685
407.0809	82.1500	263.4060	1.6927	-0.8780	0.0002	0.4787	0.21994	0.27940	-0.26957	0.66257
407.8674	82.1362	264.7041	1.9943	-0.8340	0.0002	0.5518	0.09686	0.16463	-0.34006	0.54338
408.8903	82.1252	266.1169	2.3653	-0.7879	0.0003	0.6157	-0.02852	0.04903	-0.40137	0.42146
410.2139	82.1183	267.5553	2.8718	-0.7313	0.0002	0.6821	-0.17360	-0.08663	-0.47850	0.27804
411.9283	82.1171	269.3430	3.5574	-0.6757	0.0003	0.7372	-0.29604	-0.20392	-0.51030	0.14272
414.1485	82.1243	271.1989	4.4852	-0.6119	0.0001	0.7909	-0.42083	-0.32811	-0.54983	-0.00544
417.0297	82.1447	273.2357	5.7532	-0.5482	0.0001	0.8364	-0.51477	-0.43220	-0.54817	-0.14101
420.7673	82.1842	275.4674	7.4878	-0.4833	0.0001	0.8754	-0.58178	-0.52028	-0.53672	-0.26690
425.6053	82.2566	277.8894	9.8087	-0.4186	0.0004	0.9082	-0.61498	-0.58702	-0.51387	-0.37809
431.8216	82.3735	280.4628	12.7992	-0.3530	0.0002	0.9356	-0.61695	-0.63273	-0.49608	-0.47185
439.6967	82.5005	283.1076	16.5052	-0.2899	0.0002	0.9571	-0.58382	-0.62097	-0.47064	-0.52880
449.4633	82.8066	285.6949	20.7574	-0.2278	0.0005	0.9737	-0.53503	-0.54767	-0.45347	-0.53208
461.2294	83.1665	288.0450	25.0437	-0.1685	0.0005	0.9857	-0.48998	-0.45488	-0.43718	-0.48765
474.8871	83.6563	289.9405	33.4123	-0.1100	0.0008	0.9939	-0.46408	-0.40387	-0.43116	-0.43486
490.0492	84.2898	291.1595	39.7433	-0.0525	0.0003	0.9986	-0.44719	-0.38866	-0.42669	-0.40193
506.0442	85.0456	291.5502	48.3681	0.0030	0.0000	1.0000	-0.42597	-0.37449	-0.41725	-0.37802
522.0318	85.8731	291.0513	58.6134	0.0601	0.0002	0.9982	-0.39453	-0.34491	-0.41915	-0.34509
534.7053	86.5766	290.0443	69.1733	0.1105	-0.0009	0.9939	-0.33310	-0.27869	-0.40248	-0.27124
405.3680	83.2113	257.3938	0.6640	-0.9990	0.0002	0.0447	0.74225	0.79531	0.41320</	

431.8942	83.8956	280.4897	9.8846	-0.3525	0.0002	0.9358	-0.61572	-0.63418	-0.49572	-0.47530
439.7744	84.1431	283.1315	12.6537	-0.2893	-0.0003	0.9572	-0.58158	-0.62035	-0.47060	-0.53034
449.5437	84.4612	285.7140	15.7588	-0.2273	-0.0002	0.9738	-0.53251	-0.54587	-0.45379	-0.53198
461.3077	84.8603	288.0574	18.7684	-0.1680	0.0005	0.9858	-0.48781	-0.45307	-0.43780	-0.46673
474.9562	85.3456	289.9468	20.9315	-0.1097	0.0008	0.9940	-0.46236	-0.40264	-0.43151	-0.43384
490.1019	85.9121	291.1619	21.4295	-0.0524	0.0002	0.9986	-0.44556	-0.38792	-0.42680	-0.40117
506.0779	86.5355	291.5502	19.8611	0.0031	0.0000	1.0000	-0.42486	-0.37375	-0.41632	-0.37717
522.0494	87.1796	291.0500	16.6147	0.0602	0.0002	0.9982	-0.39074	-0.34188	-0.41364	-0.34195
534.6558	87.7018	290.0508	8.4641	0.1101	-0.0009	0.9939	-0.32369	-0.26964	-0.39696	-0.26182

plate top upper

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
367.7747	81.6282	258.1519	10.6251	-0.3599	0.9330	0.0066	0.26706	0.19875	-0.16975	0.06042
372.7270	83.1636	258.1020	12.8551	-0.2462	0.9690	0.0199	0.19891	0.20210	-0.44141	0.28731
378.7510	84.3787	258.0790	14.1873	-0.1521	0.9881	0.0232	0.35561	0.46843	-0.48680	0.22222
385.2077	85.1825	258.0709	14.1207	-0.0948	0.9954	0.0099	0.40519	0.56264	-0.46881	0.21922
391.2388	85.6149	258.0555	11.9824	-0.0443	0.9990	0.0019	0.37079	0.60984	-0.42736	0.68962
396.1743	85.8128	258.0101	8.8096	-0.0345	0.9994	-0.0006	0.26902	0.47687	-0.34375	0.64037
399.8291	85.9396	257.9290	5.6277	-0.0349	0.9994	0.0000	0.20384	0.23657	-0.29670	0.44987
402.3386	86.0272	257.8508	3.3810	-0.0349	0.9994	0.0000	0.13350	0.14333	-0.21032	0.30556
403.9727	86.0843	257.8497	2.2433	-0.0349	0.9994	0.0000	0.15003	0.17526	-0.20731	0.27731
404.6738	86.1088	258.2402	1.1049	-0.0349	0.9994	0.0000	0.17226	0.20372	-0.27436	0.26261
404.8010	86.1132	259.0110	1.0756	-0.0349	0.9994	0.0000	0.16860	0.19847	-0.27017	0.25597
404.9394	86.1180	259.8841	1.2095	-0.0349	0.9994	0.0000	0.16533	0.19321	-0.26484	0.25019
405.1398	86.1250	260.8598	1.4635	-0.0349	0.9994	0.0000	0.16176	0.18745	-0.25964	0.24315
405.4429	86.1356	261.9289	1.7939	-0.0349	0.9994	0.0000	0.15791	0.18110	-0.25396	0.23468
405.8750	86.1507	263.0941	2.1898	-0.0349	0.9994	0.0000	0.15373	0.17418	-0.24798	0.22475
406.4730	86.1716	264.3530	2.6728	-0.0349	0.9994	0.0000	0.14927	0.16687	-0.24177	0.21354
407.2799	86.1997	265.7118	3.2742	-0.0349	0.9994	0.0000	0.14453	0.15932	-0.23510	0.20145
408.3344	86.2366	267.1868	3.9875	-0.0349	0.9994	0.0000	0.13970	0.15189	-0.22836	0.18903
409.6998	86.2843	268.7878	4.9205	-0.0349	0.9994	0.0000	0.13465	0.14469	-0.22103	0.17682
411.4638	86.3455	270.5358	6.1241	-0.0349	0.9994	0.0000	0.12954	0.13787	-0.21324	0.16505
413.7399	86.4253	272.4474	7.6964	-0.0349	0.9994	0.0000	0.12434	0.13151	-0.20503	0.15455
416.6789	86.5280	274.5328	9.7457	-0.0349	0.9994	0.0000	0.11914	0.12542	-0.19603	0.14575
420.7116	86.6604	276.8019	12.4026	-0.0349	0.9994	0.0000	0.11396	0.11892	-0.18697	0.13791
425.3545	86.8310	279.2470	15.7571	-0.0349	0.9994	0.0000	0.10907	0.11157	-0.17757	0.13042
431.5969	87.0489	281.8278	19.8315	-0.0349	0.9994	0.0000	0.10430	0.10301	-0.16857	0.12235
439.4756	87.3241	284.4670	24.5388	-0.0349	0.9994	0.0000	0.10152	0.09417	-0.15524	0.11375
449.2227	87.6644	287.0402	29.6387	-0.0349	0.9994	0.0000	0.09990	0.08594	-0.14859	0.10482
460.9445	88.0738	289.3765	34.7690	-0.0349	0.9994	0.0000	0.10113	0.08047	-0.14782	0.09707
474.5340	88.5483	291.2712	39.4357	-0.0349	0.9994	0.0000	0.10463	0.07740	-0.15048	0.08963
489.6136	89.0755	292.5131	43.1401	-0.0348	0.9994	0.0001	0.11680	0.08299	-0.16826	0.08979
505.5244	89.6311	292.9530	45.2830	-0.0348	0.9994	0.0000	0.13725	0.09620	-0.19301	0.09384
521.3661	90.1837	292.5079	44.3097	-0.0349	0.9994	0.0000	0.16634	0.12059	-0.17454	0.11705
533.6139	90.6114	291.4427	22.5553	-0.0356	0.9969	0.0069	0.28197	0.20875	-0.15328	0.06368
567.7035	81.5846	260.4351	1.9192	-0.2482	0.9685	0.0215	0.17865	0.18244	-0.42996	0.28123
372.4400	83.0503	260.2607	11.3185	-0.1610	0.9866	0.0243	0.38213	0.44916	-0.48535	0.50219
378.1596	84.2337	260.2116	13.9163	-0.1080	0.9941	0.0107	0.40310	0.54836	-0.44071	0.60531
384.3895	85.0766	260.2398	12.4075	-0.0523	0.9986	0.0020	0.38864	0.62404	-0.43697	0.69090
390.2843	85.5643	260.2706	9.7033	-0.0336	0.9994	-0.0003	0.29732	0.53454	-0.36178	0.68419
395.0775	85.7763	260.0662	6.7099	-0.0349	0.9994	0.0000	0.22172	0.33458	-0.31722	0.54344
398.6238	85.8827	259.8939	4.4299	-0.0349	0.9994	0.0000	0.20457	0.26111	-0.30179	0.38066
401.0654	85.9361	259.8759	3.0613	-0.0349	0.9994	0.0000	0.19083	0.23429	-0.28743	0.29419
402.6655	86.0386	260.2327	1.5001	-0.0348	0.9994	0.0000	0.18304	0.22159	-0.28032	0.28652
403.4515	86.0661	260.9240	1.3370	-0.0349	0.9994	0.0000	0.18000	0.21619	-0.26859	0.27700
403.9612	86.0759	261.7830	1.3763	-0.0348	0.9994	0.0000	0.17529	0.20900	-0.26338	0.26821
404.2225	86.0930	262.8028	1.5389	-0.0348	0.9994	0.0000	0.17100	0.20197	-0.25607	0.25816
404.5770	86.1054	263.9570	1.7961	-0.0349	0.9994	0.0000	0.16640	0.19443	-0.24653	0.24671
405.0680	86.1225	265.2320	2.1554	-0.0348	0.9994	0.0000	0.16148	0.18630	-0.23600	0.23394
405.7359	86.1458	266.6147	2.6357	-0.0349	0.9994	0.0000	0.15631	0.17778	-0.22634	0.22018
406.6206	86.1767	268.1024	3.2641	-0.0349	0.9994	0.0000	0.15098	0.16913	-0.21679	0.20607
407.7651	86.2167	269.7048	4.0598	-0.0349	0.9994	0.0000	0.14559	0.16067	-0.20758	0.19215
409.2299	86.2679	271.4279	5.0928	-0.0349	0.9994	0.0000	0.14021	0.15267	-0.22280	0.17898
411.0973	86.3331	273.2847	6.4681	-0.0349	0.9994	0.0000	0.13484	0.14527	-0.21564	0.16715
413.4736	86.4161	275.2846	8.0973	-0.0349	0.9994	0.0000	0.12956	0.13861	-0.20829	0.15691
416.4954	86.5216	277.4303	10.0923	-0.0349	0.9994	0.0000	0.12433	0.13252	-0.20033	0.14813
420.3370	86.6557	282.1451	13.2933	-0.0349	0.9994	0.0000	0.11918	0.12660	-0.19171	0.14012
425.2158	86.8261	287.1451	16.6973	-0.0349	0.9994	0.0000	0.11413	0.12014	-0.18217	0.13218
431.3886	87.0417	292.6604	20.5965	-0.0349	0.9994	0.0000	0.10940	0.11272	-0.17218	0.12351
439.1375	87.3123	297.2012	24.7512	-0.0349	0.9994	0.0000	0.10510	0.10406	-0.16201	0.11411
448.0433	87.6467	299.6671	28.7766	-0.0349	0.9994	0.0000	0.10187	0.09496	-0.15310	0.10335
460.2335	88.0492	291.9137	32.2809	-0.0349	0.9994	0.0000	0.09990	0.08611	-0.14671	0.09359
473.6124	88.5162	293.7584	34.9959	-0.0349	0.9994	0.0000	0.10090	0.08004	-0.14628	0.08504
488.4673	89.0354	295.0115	36.8699	-0.0349	0.9994	0.0000	0.10405	0.07648	-0.16729	0.08643
504.1526	89.5831	295.5350	37.7666	-0.0349	0.9994	0.0000	0.11473	0.08777	-0.19613	0.09088
519.6611	90.1243	295.2125	35.9847	-0.0349	0.9994	0.0000	0.12363	0.09557	-0.19696	0.12297
531.4707	90.5366	294.1148	18.4046	-0.0349	0.9994	-0.0000	0.0211	0.29004	-0.14641	0.04791
367.7996	81.6354	262.6673	10.4573	-0.2404	0.9695	0.0060	0.16645	0.17316	-0.41675	0.27504
372.3199	82.9897	262.3447	10.8422	-0.1669	0.9858	0.0191	0.36598	0.43451	-0.47570	0.48552
377.7306	84.1168	262.3086	12.4241	-0.1195	0.9928	0.0112	0.39130	0.53206	-0.43370	0.58662
383.7225	84.9765	262.4728	13.5597	-0.0623	0.9981	0.0111	0.39220	0.62615	-0.43789	0.68214
389.4694	85.5145	262.6961	11.5959	-0.0328	0.9995	0.0001	0.31101	0.56273	-0.37199	0.69805
394.1119	85.7445	262.8361	8.8647	-0.0348	0.9994	0.0000	0.22948	0.36207	-0.31537	0.58080
397.5500	85.8601	262.8232	6.3061	-0.0349	0.9994	0.0000	0.20942	0.27170	-0.30461	0.42590
399.9296	85.9431	262.7492	4.2982	-0.0349	0.9994	0.0000	0.19651	0.24341	-0.29090	0.33350
401.5031	85.9981	262.6041	2.1336	-0.0349	0.9994	0.0000	0.18836	0.22858	-0.28347	0.31033
402.3684	86.0283	263.0492	1.8572	-0.0349	0.9994	0.0000	0.18366	0.22096	-0.27757	0.29907
402.8116	86.0437	263.6747	1.8422	-0.0349	0.9994	0.0000	0.17774	0.21160	-0.27045	0.28544
403.1992	86.0573	264.5318	1.9881	-0.0348	0.9994	0.0000	0.17224	0.20244	-0.26398	0.27259
403.6150	86.0718	265.6063	2.2584	-0.0349	0.9994	0.0000	0.16648	0.19311	-0.25685	0.25905
404.1214	86.0895	266.8612	2.6578	-0.0349	0.9994	0.0000	0.16068	0.18371	-0.24982	0.24470
404.7650	86.1120	268.2632	3.1987	-0.0348	0.9994	0.0000	0.15486	0.17446	-0.24264	0.22985
405.5857	86.1406	269.7840	3.9034	-0.0350	0.9994	0.0000	0.14903	0.16555	-0.23531	0.21492
406.6225	86.1768	271.4081	4.9245	-0.0350	0.9994	0.0000	0.14347	0.15742	-0.22811	0.20071
407.9190	86.2221	273.1324	6.3245	-0.0349	0.9994	0.0000	0.13802	0.15006	-0.22075	0.18752
409.5310	86.2784	274.9543	8.0408	-0.0349	0.9994	0.0000	0.13282	0.14357	-0.21324	0.17581
411.5301	86.3482	276.8753	9.9995	-0.0349	0.9994	0.0000	0.12789	0.13791	-0.20558	0.16583
414.0066	86.4347	278.8939	11.2486	-0.0349	0.9994	0.0000	0.12318	0.13267	-0.19747	0.15735
417.0742	86.5418	281.0041	13.8526	-0.0349	0.9994	0.0000	0.11872	0.12737	-0.18888	0.14989
420.8813	86.6748	283.1982	16.9382	-0.0349	0.9994	0.0000	0.11448	0.12132	-0.17954	0.14263
425.6238	86.8403	285.5614	20.4651	-0.0349	0.9994	0.0000	0.11062	0.11431	-0.16987	0.13503
431.5564	87.0476	287.7634	24.2256	-0.0349	0.9994	0.0000	0.10716	0.10617	-0.16005	0.12676
438.3911	87.3072	290.0595	27.7581</							

377.6770	84.0897	264.5025	12.4948	-0.1648	0.9863	-0.0022	-0.36258	-0.43111	-0.47357	-0.47970
383.4584	84.9291	264.8999	15.8195	-0.1250	0.9922	-0.0020	-0.38793	-0.52412	-0.43282	-0.57635
389.0767	85.4883	265.4726	15.3180	-0.0677	0.9977	0.0000	-0.39890	-0.63107	-0.44229	-0.67835
393.5693	85.7255	266.0119	13.6903	-0.0331	0.9995	0.0006	-0.42330	-0.58833	-0.37979	-0.71182
396.8929	85.8374	266.3977	11.1838	-0.0346	0.9994	0.0000	-0.42359	-0.38394	-0.31734	-0.62880
399.2100	85.9179	266.6228	8.3745	-0.0349	0.9994	0.0000	-0.42176	-0.27101	-0.30442	-0.47794
400.7655	85.9722	266.7545	5.7523	-0.0349	0.9994	0.0000	-0.41985	-0.24271	-0.28981	-0.31704
401.6912	86.0046	267.0051	2.9751	-0.0350	0.9994	0.0000	-0.41901	-0.21794	-0.28204	-0.25483
402.2691	86.0248	267.5516	2.6455	-0.0349	0.9994	0.0000	-0.41843	-0.21835	-0.27487	-0.30375
402.8155	86.0439	268.3894	2.6150	-0.0349	0.9994	0.0000	-0.41775	-0.21863	-0.26689	-0.28674
403.4021	86.0644	269.4962	2.7822	-0.0348	0.9994	0.0000	-0.41706	-0.19843	-0.25931	-0.27027
404.0843	86.0882	270.8234	3.1036	-0.0350	0.9994	0.0000	-0.41646	-0.18831	-0.25106	-0.25413
404.9052	86.1169	272.3173	3.5733	-0.0349	0.9994	0.0000	-0.41586	-0.17858	-0.24318	-0.23806
405.9016	86.1516	273.9305	4.1890	-0.0349	0.9994	0.0000	-0.41522	-0.16946	-0.23519	-0.22253
407.1088	86.1938	275.6314	4.9610	-0.0349	0.9994	0.0000	-0.41454	-0.16116	-0.22742	-0.20806
408.5655	86.2447	277.4076	5.9210	-0.0349	0.9994	0.0000	-0.41382	-0.15400	-0.21995	-0.19522
410.3173	86.3059	279.2313	7.0110	-0.0349	0.9994	0.0000	-0.41307	-0.14785	-0.21259	-0.18408
412.4210	86.3793	281.1097	8.3359	-0.0349	0.9994	0.0000	-0.41229	-0.14257	-0.20530	-0.17461
414.9470	86.4655	283.0301	9.9892	-0.0349	0.9994	0.0000	-0.41149	-0.13791	-0.19805	-0.16662
417.9874	86.5737	284.9848	11.7448	-0.0349	0.9994	0.0000	-0.41067	-0.13330	-0.19056	-0.15947
421.6710	86.7024	286.9684	13.9653	-0.0349	0.9994	0.0000	-0.40983	-0.12830	-0.18283	-0.15254
423.7948	86.8599	288.9742	16.6516	-0.0349	0.9994	0.0000	-0.40897	-0.12240	-0.17442	-0.14520
426.8145	87.0559	290.9840	19.8527	-0.0349	0.9994	0.0000	-0.40809	-0.11547	-0.16554	-0.13712
431.8509	87.3023	292.9726	23.4155	-0.0349	0.9994	0.0000	-0.40719	-0.10827	-0.15621	-0.12815
437.6925	87.6110	294.9018	26.7970	-0.0349	0.9994	0.0000	-0.40627	-0.10082	-0.14761	-0.11768
443.4803	87.9877	296.6883	29.3524	-0.0349	0.9994	0.0000	-0.40533	-0.09347	-0.14154	-0.10578
447.0982	88.4284	298.1993	30.8372	-0.0349	0.9994	0.0000	-0.40437	-0.08637	-0.14130	-0.09622
451.5733	88.9196	299.2946	31.4418	-0.0349	0.9994	0.0000	-0.40339	-0.08050	-0.14339	-0.08859
455.9977	89.4379	299.8802	31.4083	-0.0349	0.9994	0.0001	-0.40239	-0.07606	-0.14537	-0.08383
460.5651	89.9464	299.8416	29.6958	-0.0349	0.9994	0.0000	-0.40137	-0.07297	-0.14733	-0.07970
464.2360	90.3538	299.0334	18.6625	-0.0349	0.9994	0.0000	-0.40033	-0.07008	-0.14926	-0.07619
467.1620	90.7294	298.2904	20.2904	-0.0349	0.9994	0.0000	-0.39927	-0.06737	-0.15114	-0.07323
469.3981	91.0717	297.5144	22.4741	-0.0349	0.9994	0.0000	-0.39819	-0.06483	-0.15297	-0.07081
471.9829	91.4895	296.6961	24.3333	-0.0349	0.9994	0.0000	-0.39709	-0.06245	-0.15474	-0.06893
474.9470	91.9717	295.8477	25.9713	-0.0349	0.9994	0.0000	-0.39597	-0.06023	-0.15646	-0.06759
477.3120	92.5234	294.9710	27.4229	-0.0349	0.9994	0.0000	-0.39483	-0.05816	-0.15812	-0.06685
479.7948	93.1000	294.0334	28.7133	-0.0349	0.9994	0.0000	-0.39367	-0.05623	-0.15973	-0.06659
482.3120	93.7486	293.0444	29.7556	-0.0349	0.9994	0.0000	-0.39249	-0.05444	-0.16129	-0.06681
484.8896	94.4640	292.0044	30.5597	-0.0349	0.9994	0.0000	-0.39129	-0.05279	-0.16280	-0.06751
487.5120	95.2484	290.9177	31.1277	-0.0349	0.9994	0.0000	-0.39007	-0.05127	-0.16426	-0.06874
490.1896	96.0977	289.7844	31.5733	-0.0349	0.9994	0.0000	-0.38883	-0.04987	-0.16567	-0.07049
492.9220	96.9977	288.6044	31.8222	-0.0349	0.9994	0.0000	-0.38757	-0.04857	-0.16703	-0.07279
495.7044	97.9464	287.3777	31.8777	-0.0349	0.9994	0.0000	-0.38629	-0.04737	-0.16834	-0.07564
498.5368	98.9464	286.1044	31.7556	-0.0349	0.9994	0.0000	-0.38499	-0.04627	-0.16960	-0.07904
501.4196	99.9977	284.7844	31.4889	-0.0349	0.9994	0.0000	-0.38367	-0.04527	-0.17081	-0.08304
504.3520	101.1000	283.4177	31.0777	-0.0349	0.9994	0.0000	-0.38233	-0.04437	-0.17197	-0.08764
507.3344	102.2556	281.9961	30.5222	-0.0349	0.9994	0.0000	-0.38097	-0.04357	-0.17309	-0.09284
510.3668	103.4640	280.5244	29.8222	-0.0349	0.9994	0.0000	-0.37959	-0.04287	-0.17417	-0.09864
513.4492	104.7222	278.9961	28.9777	-0.0349	0.9994	0.0000	-0.37819	-0.04227	-0.17521	-0.10504
516.5816	106.0333	277.4177	27.9556	-0.0349	0.9994	0.0000	-0.37677	-0.04177	-0.17621	-0.11204
519.7640	107.3977	275.7844	26.7777	-0.0349	0.9994	0.0000	-0.37533	-0.04137	-0.17717	-0.11964
522.9964	108.8196	274.1044	25.4444	-0.0349	0.9994	0.0000	-0.37387	-0.04107	-0.17809	-0.12784
526.2788	110.2977	272.3777	23.9777	-0.0349	0.9994	0.0000	-0.37239	-0.04087	-0.17897	-0.13664
529.6112	111.8399	270.6044	22.3777	-0.0349	0.9994	0.0000	-0.37089	-0.04077	-0.17981	-0.14604
532.9936	113.4444	268.7844	20.6222	-0.0349	0.9994	0.0000	-0.36937	-0.04077	-0.18061	-0.15604
536.4260	115.1000	266.9177	18.7222	-0.0349	0.9994	0.0000	-0.36783	-0.04087	-0.18137	-0.16664
539.9084	116.8111	265.0044	16.6777	-0.0349	0.9994	0.0000	-0.36627	-0.04107	-0.18209	-0.17784
543.4408	118.5777	263.0444	14.3889	-0.0349	0.9994	0.0000	-0.36469	-0.04137	-0.18277	-0.18964
547.0232	120.4000	261.0444	11.8777	-0.0349	0.9994	0.0000	-0.36309	-0.04177	-0.18341	-0.20204
550.6556	122.2777	259.0044	9.1556	-0.0349	0.9994	0.0000	-0.36147	-0.04227	-0.18401	-0.21504
554.3380	124.2111	256.9244	6.2222	-0.0349	0.9994	0.0000	-0.35983	-0.04287	-0.18457	-0.22864
558.0704	126.2000	254.7961	3.0777	-0.0349	0.9994	0.0000	-0.35817	-0.04357	-0.18509	-0.24284
561.8528	128.2444	252.6244	0.7222	-0.0349	0.9994	0.0000	-0.35649	-0.04437	-0.18567	-0.25764
565.6852	130.3444	250.4177	-2.1222	-0.0349	0.9994	0.0000	-0.35479	-0.04527	-0.18621	-0.27304
569.5676	132.5000	248.1777	-5.1556	-0.0349	0.9994	0.0000	-0.35307	-0.04627	-0.18671	-0.28904
573.5000	134.7111	245.9044	-8.3556	-0.0349	0.9994	0.0000	-0.35133	-0.04737	-0.18717	-0.30564
577.4824	136.9777	243.5961	-11.7222	-0.0349	0.9994	0.0000	-0.34957	-0.04857	-0.18759	-0.32284
581.5148	139.2977	241.2544	-15.2556	-0.0349	0.9994	0.0000	-0.34779	-0.04987	-0.18797	-0.34064
585.5972	141.6777	238.8777	-18.9556	-0.0349	0.9994	0.0000	-0.34599	-0.05127	-0.18831	-0.35904
589.7396	144.1111	236.4644	-22.8222	-0.0349	0.9994	0.0000	-0.34417	-0.05279	-0.18861	-0.37804
593.9420	146.6000	234.0177	-26.8556	-0.0349	0.9994	0.0000	-0.34233	-0.05444	-0.18887	-0.39764
598.1944	149.1444	231.5444	-31.0556	-0.0349	0.9994	0.0000	-0.34047	-0.05623	-0.18909	-0.41784
602.5068	151.7444	229.0444	-35.4222	-0.0349	0.9994	0.0000	-0.33859	-0.05816	-0.18927	-0.43864
606.8792	154.4000	226.5177	-40.0556	-0.0349	0.9994	0.0000	-0.33669	-0.06023	-0.18941	-0.46004
611.3116	157.1111	223.9544	-44.9556	-0.0349	0.9994	0.0000	-0.33477	-0.06245	-0.18951	-0.48204
615.8040	159.8777	221.3644	-50.1222	-0.0349	0.9994	0.0000	-0.33283	-0.06483	-0.18957	-0.50464
620.3564	162.6977	218.7444	-55.5777	-0.0349	0.9994	0.0000	-0.33087	-0.06737	-0.18959	-0.52784
624.9688	165.5777	216.0961	-61.3222	-0.0349	0.9994	0.0000	-0.32889	-0.07008	-0.18957	-0.55164
629.6412	168.5111	213.4244	-67.3556	-0.0349	0.9994	0.0000	-0.32689	-0.07297	-0.18951	-0.57604
634.3736	171.5000	210.7244	-73.6777	-0.0349	0.9994	0.0000	-0.32487	-0.07606	-0.18941	-0.60104
639.1660	174.5444	208.0044	-80.2889	-0.0349	0.9994	0.0000	-0.32283	-0.07937	-0.18927	-0.62664
644.0184	177.6444	205.2544	-87.1889	-0.0349	0.9994	0.0000	-0.32077	-0.08287	-0.18909	-0.65284
648.9308	180.8000	202.4844	-94.3777	-0.0349	0.9994	0.0000	-0.31869	-0.08657	-0.18887	-0.67964
653.9032	184.0111	199.6961	-101.8556	-0.0349	0.9994	0.0000	-0.31659	-0.09057	-0.18861	-0.70704
658.9356	187.2777	196.8844	-109.6222	-0.0349	0.9994	0.0000	-0.31447	-0.09487	-0.18831	-0.73504
664.0280	190.6000	194.0444	-117.6777	-0.0349	0.9994	0.0000	-0.31233	-0.09937	-0.18787	-0.76364
669.1804	194.0777	191.1777	-126.0222	-0.0349	0.9994	0.0000	-0.31017	-0.10407	-0.18737	-0.79284
674.3928	197.6000	188.2844	-134.6556	-0.0349	0.9994	0.0000	-0.30799	-0.10897	-0.18681	-0.82264
679.6652	201.1777	185.3644	-143.5777	-0.0349	0.9994	0.0000	-0.30579	-0.11407	-0.18621	-0.85304
685.0076	204.8000	182.4177	-152.7889	-0.0349	0.9994	0.0000	-0.30357	-0.11937	-0.18557	-0.88404
690.4100	208.4777	179.4444	-162.2889	-0.0349	0.9994					

401.8430	86.0099	284.8721	4.7747	-0.0348	0.9994	0.0000	-0.17842	-0.22072	-0.25725	-0.35731
402.6134	86.0368	285.1928	5.0881	-0.0349	0.9994	0.0000	-0.17062	-0.21053	-0.24931	-0.31867
403.4548	86.0662	285.7930	5.3484	-0.0350	0.9994	0.0000	-0.16300	-0.19879	-0.24077	-0.29313
404.3754	86.0984	286.6256	5.6154	-0.0349	0.9994	0.0000	-0.15613	-0.18862	-0.23333	-0.27247
405.3890	86.1338	287.6244	5.9145	-0.0349	0.9994	0.0000	-0.14997	-0.18035	-0.22588	-0.25561
406.5112	86.1729	288.7270	6.2603	-0.0349	0.9994	0.0000	-0.14459	-0.17372	-0.21937	-0.24196
407.7584	86.2165	289.8857	6.6590	-0.0349	0.9994	0.0000	-0.13998	-0.16827	-0.21317	-0.23079
409.1499	86.2651	291.0704	7.1281	-0.0349	0.9994	0.0000	-0.13615	-0.16374	-0.20774	-0.22146
410.7086	86.3195	292.2654	7.6737	-0.0349	0.9994	0.0000	-0.13288	-0.15970	-0.20260	-0.21297
412.4645	86.3809	293.4654	8.3360	-0.0349	0.9994	0.0000	-0.13006	-0.15577	-0.19779	-0.20483
414.4592	86.4505	294.6721	9.1555	-0.0349	0.9994	0.0000	-0.12756	-0.15169	-0.19300	-0.19689
416.7503	86.5305	295.8888	10.1505	-0.0349	0.9994	0.0000	-0.12529	-0.14725	-0.18808	-0.18880
419.4229	86.6233	297.1175	11.5407	-0.0349	0.9994	0.0000	-0.12309	-0.14237	-0.18271	-0.18047
422.6084	86.7351	298.3542	13.3357	-0.0349	0.9994	0.0000	-0.12110	-0.13722	-0.17692	-0.17206
425.5000	86.8710	299.5832	15.6574	-0.0349	0.9994	0.0000	-0.11906	-0.13181	-0.17019	-0.16390
431.3790	87.0413	300.7614	18.5738	-0.0349	0.9994	0.0000	-0.11699	-0.12597	-0.16274	-0.15724
437.6231	87.2594	301.8650	21.9979	-0.0349	0.9994	0.0000	-0.11452	-0.11914	-0.15449	-0.15096
445.5853	87.5375	302.9150	25.3263	-0.0349	0.9994	0.0000	-0.11209	-0.11103	-0.14598	-0.14522
455.4134	87.8807	303.9026	27.8127	-0.0349	0.9994	0.0000	-0.11002	-0.10366	-0.13751	-0.13495
466.9681	88.2841	304.7698	29.0955	-0.0349	0.9994	0.0000	-0.11030	-0.09937	-0.13236	-0.12240
479.8416	88.7338	305.4486	29.2710	-0.0349	0.9994	0.0000	-0.11075	-0.08548	-0.12854	-0.10811
493.4023	89.2074	305.9075	28.5897	-0.0349	0.9994	0.0000	-0.11951	-0.08664	-0.12937	-0.10172
506.7681	89.6741	306.1462	27.1555	-0.0349	0.9994	0.0000	-0.13315	-0.09329	-0.15846	-0.09968
518.3573	90.0787	306.0228	22.3965	-0.0349	0.9994	0.0000	-0.16674	-0.11771	-0.10475	-0.11027
375.6508	83.9426	282.5457	17.2255	-0.0349	0.9752	-0.0191	-0.14669	-0.24713	-0.56236	-0.36876
378.9165	84.5457	281.7774	16.5077	-0.0349	0.9898	-0.0101	-0.29309	-0.37378	-0.37010	-0.45196
382.5759	84.9936	282.0323	15.9038	-0.0349	0.9949	-0.0123	-0.32456	-0.47988	-0.48923	-0.55140
387.2053	85.3814	283.5159	23.6447	-0.0689	0.9976	-0.0043	-0.32701	-0.50649	-0.41577	-0.57601
391.9248	85.6560	285.8144	18.2029	-0.0400	0.9992	-0.0006	-0.31838	-0.55343	-0.39768	-0.63467
395.3233	85.7838	287.8926	14.6130	-0.0337	0.9994	-0.0001	-0.25978	-0.50344	-0.33552	-0.65177
397.8106	85.8691	289.4548	11.4526	-0.0350	0.9994	0.0000	-0.22490	-0.37641	-0.31332	-0.63429
399.6617	85.9338	290.4652	9.1678	-0.0348	0.9994	0.0000	-0.21463	-0.30181	-0.29286	-0.59941
401.0715	85.9830	290.9408	7.1986	-0.0349	0.9994	0.0000	-0.20329	-0.28532	-0.27679	-0.53483
402.0475	86.0140	291.1199	4.3435	-0.0349	0.9994	0.0000	-0.19489	-0.27910	-0.26352	-0.47202
402.8255	86.0472	291.3785	4.7989	-0.0349	0.9994	0.0000	-0.18579	-0.26503	-0.25232	-0.41937
403.6859	86.0743	291.8649	5.1186	-0.0349	0.9994	0.0000	-0.17657	-0.24904	-0.24366	-0.39650
404.6210	86.1069	292.5320	5.3895	-0.0349	0.9994	0.0000	-0.16802	-0.23386	-0.22490	-0.36737
405.6338	86.1427	293.3218	5.6615	-0.0349	0.9994	0.0000	-0.16012	-0.20811	-0.21838	-0.31915
406.7346	86.1807	294.3868	5.9368	-0.0349	0.9994	0.0000	-0.15292	-0.19873	-0.21235	-0.29650
407.9380	86.2232	295.0926	6.2218	-0.0349	0.9994	0.0000	-0.14656	-0.18702	-0.20711	-0.27518
409.2434	86.2691	296.0240	6.5171	-0.0349	0.9994	0.0000	-0.14103	-0.17776	-0.20202	-0.25593
410.7378	86.3206	297.9742	7.3147	-0.0349	0.9994	0.0000	-0.13637	-0.16956	-0.19692	-0.23873
412.3978	86.3785	299.9448	8.0051	-0.0349	0.9994	0.0000	-0.12945	-0.16236	-0.19134	-0.22377
414.2859	86.4444	298.9416	8.8839	-0.0349	0.9994	0.0000	-0.12704	-0.15578	-0.18505	-0.21064
416.4661	86.5206	299.9675	10.0027	-0.0349	0.9994	0.0000	-0.12508	-0.14931	-0.17780	-0.19855
419.0285	86.6100	301.0194	11.4637	-0.0349	0.9994	0.0000	-0.12353	-0.14213	-0.16928	-0.18539
422.1113	86.7177	302.0835	13.3968	-0.0349	0.9994	0.0000	-0.12204	-0.13382	-0.15945	-0.17040
425.9093	86.8504	303.1294	15.8370	-0.0349	0.9994	0.0000	-0.12066	-0.12449	-0.14870	-0.15288
430.7009	87.0176	304.0892	18.8247	-0.0349	0.9994	0.0000	-0.11945	-0.11450	-0.13806	-0.13654
436.8526	87.2325	304.9332	22.2761	-0.0349	0.9994	0.0000	-0.11876	-0.10627	-0.13149	-0.12356
444.6847	87.5060	305.7109	25.5767	-0.0349	0.9994	0.0000	-0.11910	-0.10037	-0.12966	-0.11585
454.3155	87.8423	306.4414	28.0695	-0.0349	0.9994	0.0000	-0.12191	-0.09732	-0.13292	-0.11142
465.6054	88.2366	307.0892	29.4009	-0.0349	0.9994	0.0000	-0.12548	-0.09514	-0.13804	-0.10625
476.1623	88.6751	307.6079	29.5940	-0.0349	0.9994	0.0000	-0.13724	-0.10142	-0.14592	-0.10872
491.3845	89.1369	307.9770	28.8233	-0.0349	0.9994	0.0000	-0.15283	-0.13651	-0.13307	-0.11922
504.4695	89.5938	308.2251	27.2559	-0.0349	0.9994	0.0000	-0.18560	-0.17397	-0.14556	-0.08633
515.9199	89.9935	308.3160	23.1434	-0.0349	0.9994	0.0000	-0.25252	-0.24701	-0.39451	-0.50863
378.6060	84.4609	286.8519	15.9442	-0.0349	0.9817	-0.0252	-0.26188	-0.50137	-0.55636	-0.59206
381.5224	84.9206	286.1645	15.7947	-0.0349	0.9870	-0.0104	-0.32107	-0.52059	-0.46155	-0.61502
384.7188	85.2346	286.6092	15.7238	-0.0349	0.9932	0.0004	-0.32480	-0.53751	-0.43568	-0.65474
388.0428	85.5993	288.4181	19.8177	-0.0526	0.9886	0.0001	-0.26259	-0.48923	-0.39435	-0.58588
393.0424	85.7001	291.0376	14.9729	-0.0378	0.9993	0.0004	-0.30304	-0.41631	-0.37214	-0.63823
396.0241	85.8077	293.2645	11.7904	-0.0341	0.9994	0.0001	-0.26259	-0.41631	-0.37214	-0.61202
398.2182	85.8833	294.9059	9.2132	-0.0350	0.9994	0.0000	-0.24357	-0.37930	-0.34860	-0.58076
399.8861	85.9416	295.9733	7.4329	-0.0348	0.9994	0.0000	-0.23511	-0.35277	-0.30975	-0.55795
401.1944	85.9872	296.5047	5.9741	-0.0349	0.9994	0.0000	-0.22538	-0.32547	-0.29340	-0.54165
402.1253	86.0197	296.7093	3.7083	-0.0350	0.9994	0.0000	-0.21869	-0.31023	-0.26676	-0.49780
402.8753	86.0460	296.9389	4.1510	-0.0349	0.9994	0.0000	-0.21117	-0.29524	-0.25588	-0.47364
403.6976	86.0747	297.3442	4.4692	-0.0348	0.9994	0.0000	-0.20275	-0.27979	-0.24697	-0.44812
404.5806	86.1055	297.8808	4.7412	-0.0349	0.9994	0.0000	-0.19430	-0.26366	-0.23876	-0.42005
405.5261	86.1385	298.5031	5.0170	-0.0349	0.9994	0.0000	-0.18590	-0.24660	-0.22500	-0.38981
406.5452	86.1741	299.1789	5.3347	-0.0349	0.9994	0.0000	-0.17741	-0.22896	-0.21904	-0.35817
407.6545	86.2129	299.8896	5.7155	-0.0349	0.9994	0.0000	-0.16919	-0.21217	-0.21305	-0.32535
408.8782	86.2556	300.6293	6.2083	-0.0349	0.9994	0.0000	-0.16106	-0.19680	-0.20734	-0.29479
410.2462	86.3034	301.3997	6.8191	-0.0349	0.9994	0.0000	-0.15332	-0.18385	-0.20063	-0.26742
411.7975	86.3575	302.2071	7.6131	-0.0349	0.9994	0.0000	-0.14623	-0.17322	-0.19345	-0.24520
413.5843	86.4199	303.0593	8.6267	-0.0349	0.9994	0.0000	-0.13995	-0.16543	-0.18348	-0.22907
415.6733	86.4929	303.9575	9.9012	-0.0349	0.9994	0.0000	-0.13486	-0.15807	-0.17438	-0.21598
418.1598	86.5797	304.8921	11.5528	-0.0349	0.9994	0.0000	-0.13082	-0.15118	-0.16716	-0.20592
421.1924	86.6856	305.8381	13.7291	-0.0349	0.9994	0.0000	-0.12809	-0.14450	-0.16038	-0.19447
424.9686	86.8175	306.7483	16.3941	-0.0349	0.9994	0.0000	-0.12571	-0.13843	-0.15456	-0.18492
429.7618	86.9848	307.5202	19.5421	-0.0348	0.9994	0.0000	-0.12318	-0.13254	-0.14868	-0.17697
435.9188	87.1938	308.1167	23.0933	-0.0349	0.9994	0.0000	-0.12032	-0.12692	-0.14269	-0.16977
443.7100	87.4719	308.6300	26.4140	-0.0349	0.9994	0.0000	-0.11580	-0.12032	-0.13546	-0.16169
453.2882	87.8037	309.1111	28.9863	-0.0349	0.9994	0.0000	-0.11341	-0.11374	-0.12864	-0.14905
464.5138	88.1905	309.5431	30.4696	-0.0349	0.9994	0.0000	-0.11374	-0.10537	-0.12044	-0.13133
476.5780	88.6198	309.8979	30.7875	-0.0349	0.9994	0.0000	-0.11309	-0.09566	-0.11475	-0.11306
489.5138	89.0716	310.1622	30.0206	-0.0349	0.9994	0.0000	-0.11069	-0.08610	-0.11176	-0.10315
502.3777	89.5208	310.3740	28.2416	-0.0349	0.9994	0.0000	-0.10858	-0.07929	-0.11222	-0.10119
513.5960	89.9124	310.6270	23.5306	-0.0349	0.9994	0.0000	-0.10741	-0.07296	-0.10877	-0.10104
381.8565	84.9105	291.0110	14.0480	-0.1535	0.9877	0.0284	-0.32725	-0.50980	-0.72183	-0.66841
384.3531	85.2310	290.5580	10.8134	-0.0900	0.9959	-0.0015	-0.21093	-0.38172		

407.9177	86.2221	304.9076	5.6929	-0.0349	0.9994	0.0000	-0.18817	-0.31903	-0.27344	-0.50420
409.1870	86.2664	305.5649	6.3924	-0.0349	0.9994	0.0000	-0.18017	-0.30066	-0.25563	-0.48121
410.8607	86.3175	306.2754	7.3136	-0.0349	0.9994	0.0000	-0.17156	-0.27833	-0.23718	-0.45275
412.8669	86.3774	307.0488	8.4884	-0.0349	0.9994	0.0000	-0.16268	-0.25303	-0.21851	-0.41684
414.4063	86.4487	307.8841	9.9490	-0.0349	0.9994	0.0000	-0.15417	-0.22495	-0.19984	-0.37353
416.8717	86.5347	308.7653	11.8421	-0.0349	0.9994	0.0000	-0.14650	-0.19649	-0.18146	-0.32343
419.9268	86.6414	309.6544	14.3504	-0.0349	0.9994	0.0000	-0.14087	-0.16938	-0.16268	-0.26510
423.7720	86.7757	310.4857	17.3487	-0.0349	0.9994	0.0000	-0.13749	-0.14936	-0.14560	-0.21115
428.6655	86.9466	311.1081	20.7633	-0.0349	0.9994	0.0000	-0.13670	-0.13658	-0.13125	-0.17281
434.9187	87.1649	311.4752	24.5590	-0.0349	0.9994	0.0000	-0.13636	-0.12844	-0.12204	-0.15397
442.7391	87.4381	311.7400	28.1045	-0.0349	0.9994	0.0000	-0.13543	-0.12238	-0.11980	-0.14308
452.1689	87.7673	311.9893	31.0166	-0.0349	0.9994	0.0000	-0.13602	-0.11694	-0.12272	-0.13597
463.0870	88.1486	312.2180	32.9226	-0.0349	0.9994	0.0000	-0.13976	-0.11377	-0.12897	-0.12598
475.1629	88.5703	312.4127	33.5908	-0.0349	0.9994	0.0000	-0.14396	-0.11112	-0.13649	-0.12598
487.8688	89.0141	312.5654	32.9708	-0.0349	0.9994	0.0000	-0.15413	-0.11532	-0.14255	-0.12596
500.5635	89.4573	312.7027	30.9953	-0.0349	0.9994	0.0000	-0.16775	-0.12293	-0.16859	-0.12795
511.4259	89.8366	313.0118	23.4662	-0.0349	0.9994	0.0000	-0.21061	-0.15125	-0.13938	-0.14349
385.2148	85.2499	295.5185	8.5807	-0.0349	0.9994	0.0288	-0.31619	-0.61363	-0.74241	-0.76623
387.0143	85.4250	295.9680	9.6244	-0.0349	0.9994	0.0106	-0.20494	-0.43686	-0.51675	-0.56487
388.8358	85.5355	297.0030	10.1765	-0.0349	0.9994	0.0016	-0.33963	-0.60033	-0.74085	-0.73603
391.3987	85.6412	298.9865	12.5371	-0.0349	0.9994	-0.0012	-0.26359	-0.54081	-0.58897	-0.69900
394.2754	85.7454	301.3495	13.9872	-0.0349	0.9994	-0.0001	-0.25693	-0.51821	-0.61026	-0.69160
396.4081	85.8202	303.0471	9.0412	-0.0349	0.9994	0.0000	-0.23927	-0.48608	-0.55661	-0.68343
398.0108	85.8761	304.2322	6.4805	-0.0349	0.9994	0.0000	-0.23664	-0.47151	-0.56438	-0.67790
399.2262	85.9185	305.0426	4.7884	-0.0349	0.9994	0.0000	-0.23017	-0.46292	-0.53788	-0.67022
400.1549	85.9509	305.5621	3.6355	-0.0349	0.9994	0.0000	-0.22882	-0.45472	-0.53591	-0.66141
401.8483	85.9752	305.8838	2.6824	-0.0349	0.9994	0.0000	-0.22659	-0.45044	-0.51920	-0.65733
402.4484	85.9961	306.1865	3.0096	-0.0349	0.9994	0.0000	-0.22810	-0.45287	-0.51890	-0.66439
402.0923	86.0186	306.5381	3.2988	-0.0349	0.9994	0.0000	-0.22667	-0.45121	-0.50833	-0.66372
402.7876	86.0429	306.9326	3.5912	-0.0349	0.9994	0.0000	-0.22615	-0.44998	-0.50449	-0.66298
403.5467	86.0694	307.3634	3.9153	-0.0349	0.9994	0.0000	-0.22381	-0.44581	-0.49472	-0.65986
404.3855	86.0987	307.8296	4.3040	-0.0349	0.9994	0.0000	-0.22110	-0.43990	-0.48723	-0.65408
405.3235	86.1315	308.3338	4.7703	-0.0349	0.9994	0.0000	-0.21705	-0.43152	-0.47575	-0.64696
406.3900	86.1687	308.8842	5.4024	-0.0349	0.9994	0.0000	-0.21220	-0.42103	-0.46468	-0.63825
407.6204	86.2117	309.4906	6.1696	-0.0349	0.9994	0.0000	-0.20609	-0.40790	-0.44968	-0.62806
409.0616	86.2620	310.1650	7.1978	-0.0349	0.9994	0.0000	-0.19911	-0.39225	-0.43402	-0.61506
410.7794	86.3220	310.9204	8.5164	-0.0349	0.9994	0.0000	-0.19082	-0.37316	-0.41325	-0.59749
412.8518	86.3944	311.7547	10.1444	-0.0349	0.9994	0.0000	-0.18132	-0.34918	-0.38919	-0.57097
415.3929	86.4831	312.6460	12.2762	-0.0349	0.9994	0.0000	-0.16993	-0.31863	-0.35682	-0.53149
418.5824	86.5944	313.5406	15.1145	-0.0349	0.9994	0.0000	-0.15681	-0.27968	-0.31744	-0.47115
422.6208	86.7355	314.5885	18.5184	-0.0349	0.9994	0.0000	-0.14272	-0.23530	-0.26739	-0.39357
427.7240	86.9137	315.8885	22.3591	-0.0349	0.9994	0.0000	-0.13160	-0.18722	-0.21194	-0.30240
434.1312	87.1375	317.0813	26.7434	-0.0349	0.9994	0.0000	-0.12343	-0.14734	-0.15852	-0.22921
442.0072	87.4125	318.1546	31.1679	-0.0349	0.9994	0.0000	-0.11931	-0.12192	-0.12611	-0.18608
451.3993	87.7405	319.2245	35.2051	-0.0349	0.9994	0.0000	-0.11822	-0.10512	-0.10789	-0.15627
462.2095	88.1180	319.2905	38.2765	-0.0349	0.9994	0.0000	-0.12026	-0.09473	-0.09731	-0.13307
474.1382	88.5345	319.3489	39.8753	-0.0349	0.9994	0.0000	-0.12111	-0.08548	-0.09026	-0.11163
486.6853	88.9727	319.3970	39.6845	-0.0349	0.9994	0.0000	-0.12955	-0.08574	-0.08594	-0.10012
499.2406	89.4111	319.4431	37.5994	-0.0349	0.9994	0.0000	-0.14388	-0.09249	-0.11573	-0.09704
509.4989	89.7694	319.5941	22.5632	-0.0349	0.9994	0.0000	-0.20774	-0.13478	-0.04790	-0.11200

plate top middle

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
405.3226	86.1315	256.6226	0.0673	-0.0350	0.9994	0.0000	-0.17610	-0.20100	-0.29206	-0.24007
405.4666	86.1365	256.8381	0.2452	-0.0352	0.9994	0.0000	-0.17260	-0.20386	-0.28334	-0.24986
405.6702	86.1437	256.9938	0.4183	-0.0354	0.9994	0.0001	-0.16949	-0.20415	-0.27920	-0.25278
405.9571	86.1537	256.0916	0.6557	-0.0354	0.9994	0.0002	-0.16728	-0.20331	-0.27800	-0.25160
406.3498	86.1675	255.1275	0.9521	-0.0353	0.9994	0.0001	-0.16504	-0.20194	-0.27672	-0.24897
406.8607	86.1853	252.0926	1.3240	-0.0352	0.9994	0.0002	-0.16258	-0.19991	-0.27586	-0.24501
407.5187	86.2083	250.9866	1.7937	-0.0352	0.9994	0.0002	-0.15983	-0.19698	-0.27493	-0.23951
408.3685	86.2380	249.7983	2.4386	-0.0352	0.9994	0.0002	-0.15655	-0.19283	-0.27379	-0.23222
409.4488	86.2758	248.5099	3.2743	-0.0351	0.9994	0.0002	-0.15277	-0.18765	-0.27252	-0.22349
410.8227	86.3238	247.1126	4.4444	-0.0351	0.9994	0.0002	-0.14837	-0.18118	-0.27084	-0.21312
412.5809	86.3852	245.5851	6.0869	-0.0350	0.9994	0.0002	-0.14323	-0.17336	-0.26881	-0.20120
414.8376	86.4640	243.9096	8.4081	-0.0350	0.9994	0.0002	-0.13720	-0.16401	-0.26610	-0.18773
417.7434	86.5654	242.0702	11.7110	-0.0350	0.9994	0.0002	-0.13024	-0.15314	-0.26267	-0.17310
421.4933	86.6963	240.0563	16.4138	-0.0350	0.9994	0.0001	-0.12204	-0.14059	-0.25805	-0.15756
426.3295	86.8652	237.8755	22.9986	-0.0349	0.9994	0.0001	-0.11255	-0.12634	-0.25220	-0.14154
432.5228	87.0815	235.5584	31.9279	-0.0349	0.9994	0.0001	-0.10177	-0.11066	-0.24465	-0.12541
440.3501	87.3548	233.1766	43.4965	-0.0349	0.9994	0.0001	-0.09047	-0.09464	-0.23718	-0.10977
450.0399	87.6931	230.8453	57.4448	-0.0349	0.9994	0.0001	-0.08024	-0.08039	-0.23145	-0.09576
461.6959	88.1001	228.7302	72.6354	-0.0349	0.9994	0.0000	-0.07195	-0.06866	-0.23037	-0.08248
475.2090	88.5720	227.0286	86.8159	-0.0349	0.9994	0.0000	-0.06614	-0.05906	-0.23495	-0.06937
490.1963	89.0958	225.9299	97.0728	-0.0350	0.9994	0.0000	-0.06163	-0.05024	-0.24111	-0.05573
506.0024	89.6478	225.5831	100.6889	-0.0348	0.9994	0.0000	-0.06590	-0.04888	-0.25232	-0.05034
521.8241	90.1998	226.0465	99.9680	-0.0349	0.9994	0.0000	-0.07812	-0.05343	-0.28506	-0.04936
534.4461	90.6406	226.3516	58.0071	-0.0349	0.9994	0.0000	-0.13388	-0.10273	-0.31196	-0.08827
405.3966	86.1341	226.6768	0.0617	-0.0357	0.9994	0.0002	-0.17387	-0.20274	-0.27989	-0.24594
405.6893	86.1444	226.0072	0.2081	-0.0357	0.9994	0.0001	-0.16934	-0.20217	-0.27211	-0.24071
406.0723	86.1569	225.2830	0.3923	-0.0355	0.9994	0.0000	-0.16384	-0.19949	-0.27051	-0.23828
406.4721	86.1721	224.5386	0.6292	-0.0353	0.9994	0.0001	-0.16047	-0.19687	-0.26900	-0.23618
407.0016	86.1908	223.7400	0.9048	-0.0353	0.9994	0.0002	-0.15752	-0.19015	-0.26678	-0.23218
407.6424	86.2130	222.8922	1.2610	-0.0353	0.9994	0.0002	-0.15447	-0.18611	-0.26579	-0.22533
408.4175	86.2402	221.9944	1.7146	-0.0352	0.9994	0.0002	-0.15098	-0.18114	-0.26464	-0.21696
409.3712	86.2726	221.0377	2.3480	-0.0351	0.9994	0.0002	-0.14710	-0.17540	-0.26326	-0.20764
410.5444	86.3146	220.0057	3.1598	-0.0351	0.9994	0.0002	-0.14279	-0.16875	-0.26151	-0.19726
411.9960	86.3653	218.8924	4.3025	-0.0351	0.9994	0.0002	-0.13791	-0.16110	-0.25937	-0.18555
413.8160	86.4288	217.6797	5.9087	-0.0350	0.9994	0.0002	-0.13231	-0.15231	-0.25646	-0.17342
416.1173	86.5092	216.3026	8.1801	-0.0349	0.9994	0.0002	-0.12593	-0.14236	-0.25279	-0.16032
419.0483	86.6115	214.8960	11.4145	-0.0349	0.9994	0.0001	-0.11857	-0.13122	-0.24798	-0.14683
422.8006	86.7425	213.3026	16.0152	-0.0349	0.9994	0.0001	-0.11022	-0.11894	-0.24217	-0.13335
427.6116	86.9104	211.5780	22.4636	-0.0349	0.9994	0.0001	-0.10094	-0.10579	-0.23510	-0.12016
433.7472	87.1246	209.7457	31.2085	-0.0349	0.9994	0.0001	-0.09132	-0.09255	-0.22829	-0.10751
441.4781	87.3945	207.8625	42.5505	-0.0349	0.9994	0.0000	-0.08264	-0.08073	-0.22286	-0.09592
451.0276	87.7279	206.0195	56.2382	-0.0349	0.9994	0.0000	-0.07536	-0.07055	-0.22070	-0.08415
462.4952	88.1282	204.3484	71.1714	-0.0349	0.9994	0.0000	-0.07050	-0.06201	-0.22393	-0.07221
475.7737	88.5919	203.0052	85.1400	-0.0349	0.9994	0.0000	-0.06629	-0.05334	-0.22931	-0.05897
490.4893	89.1060	202.1379	95.2637	-0.0349	0.9994	0.0000	-0.07215	-0.05313	-0.24326	-0.05424
506.0052	89.6478	201.8648	98.8480	-0.0349	0.9994	0.0000	-0.08172	-0.05516	-0.26879	-0.05169
521.5672	90.1909	202.2335	95.4925	-0.0349	0.9994	0.0000	-0.14192	-0.10711	-0.29291	-0.09130
534.2612	90.6341	202.9587	60.1690	-0.0349	0.9994	0.0000	-0.13743	-0.10751	-0.28393	-0.08655
405.4551	86.1362	202.7557	0.0573	-0.0356	0.9994	0.0001	-0.16743	-0.19981	-0.28345	-0.24800
405.8654	86.1507	202.0086	0.3523	-0.0354	0.9994	0.0001	-0.16262	-0.19323	-0.26913	-0.23945
406.3333	86.1672	201.2833	0.6292	-0.0354	0.9994	0.0001	-0.15949	-0.18929	-0.26665	-0.23316
406.8738	86.1863	200.5379	0.9048	-0.0353	0.9994	0.0002	-0.15629	-0.18534	-0.26420	-0.22697
407.5070	86.2086	200.5349	0.8448	-0.0353	0.9994	0.0003	-0.15306	-0.18101	-0.26229	-0.22002
408.2466	86.2346	200.8938	1.1817	-0.0352	0.9994	0.0002	-0.14980	-0.17638	-0.26037	-0.21246
409.1122	86.2650	200.2166	1.6131	-0.0352	0.9994	0.0003	-0.14626	-0.17111	-0.25844	-0.20403
410.1471	86.3012	200.4961	2.2216	-0.0351	0.9994	0.0003	-0.14245	-0.16532	-0.25636	-0.19488
411.3936	86.3448	200.7198	3.0058	-0.0351	0.9994	0.0002	-0.13826	-0.15884	-0.25393	-0.18497
412.9083	86.3978	200.8836	4.1149	-0.0350	0.9994	0.0002	-0.13362	-0.15162	-0.25118	-0.17433
414.7802	86.4631	200.9737	5.6827	-0.0350	0.9994	0.0002	-0.12831	-0.14347	-0.24762	-0.16296
417.1206	86.5448	200.9786	7.9091	-0.0349	0.9994	0.0002	-0.12236	-0.13447	-0.24344	-0.15121
420.0753	86.6479	200.8873	11.0929	-0.0349	0.9994	0.0001	-0.11553	-0.12449	-0.23805	-0.13928
423.8329	86.7790	200.6936	15.6316	-0.0349	0.9994	0.0001	-0.10780	-0.11359	-0.23167	-0.12747
428.6264	86.9462	200.4028	22.0090	-0.0349	0.9994	0.0001	-0.09929	-0.10197	-0.22411	-0.11604
434.7179	87.1588	200.0318	30.6691	-0.0349	0.9994	0.0000	-0.09042	-0.09008	-0.21653	-0.10487
442.3738	87.4260	200.6235	41.9075	-0.0349	0.9994	0.0000	-0.08233	-0.07906	-0.21017	-0.09420
451.8139	87.7555	201.2459	55.4584	-0.0349	0.9994	0.0000	-0.07534	-0.06898	-0.20646	-0.08282
463.1360	88.1508	201.9979	70.2095	-0.0349	0.9994	0.0000	-0.07096	-0.06056	-0.20807	-0.07143
476.2342	88.6082	202.9665	83.9694	-0.0349	0.9994	0.0000	-0.06704	-0.05190	-0.21223	-0.05661
490.7407	89.1148	203.3500	92.9061	-0.0349	0.9994	0.0000	-0.07397	-0.05270	-0.22373	-0.04456
506.0405	89.6490	203.8147	94.3264	-0.0349	0.9994	0.0000	-0.08445	-0.05260	-0.23710	-0.03276
521.4061	90.1853	204.4234	94.2772	-0.0349	0.9994	0.0000	-0.14485	-0.10512	-0.26738	-0.08907
534.1352	90.6297	204.9670	61.6493	-0.0352	0.9994	0.0003	-0.17131	-0.19593	-0.27633	-0.23539
405.5012	86.1378	205.8372	0.0516	-0.0352	0.9994	0.0003	-0.16496	-0.19373	-0.26712	-0.23960
406.0033	86.1556	205.4998	0.1732	-0.0353	0.9994	0.0001	-0.15997	-0.18854	-0.26355	-0.23401
406.5608	86.1753	205.1392	0.3245	-0.0355	0.9994	0.0002	-0.15651	-0.18354	-0.26085	-0.22607
407.1866	86.1975	205.7586	0.5158	-0.0355	0.9994	0.0002	-0.15304	-0.17882	-0.25829	-0.21882
407.8996	86.2227	205.3566	0.7635	-0.0352	0.9994	0.0002	-0.14957	-0.17382	-0.25611	-0.21102
408.7145	86.2514	205.9292	1.0734	-0.0352	0.9994	0.0002	-0.14612	-0.16866	-0.25385	-0.20282
409.6497	86.2842	205.4776	1.4745	-0.0351	0.9994	0.0002	-0.14254	-0.16317	-0.25163	-0.19418
410.7474	86.3227	205.9969	2.0441	-0.0350	0.9994	0.0002	-0.13874	-0.15730	-0.24920	-0.18504
412.0509	86.3683	205.4791	2.7871	-0.0350	0.9994	0.0002	-0.13467	-0.15098	-0.24647	-0.17545
413.6158	86.4230	205.9215	3.8448	-0.0349	0.9994	0.0002	-0.13025	-0.14416	-0.24343	-0.16543
415.5297	86.4899	205.3151	5.3501	-0.0349	0.9994	0.0002	-0.12526	-0.13663	-0.23960	-0.15495
417.9022	86.5726	205.6520	7.5025	-0.0349	0.9994	0.0001	-0.11970	-0.12845	-0.23511	-0.14433
420.8770	86.6764	205.9243	10.5987	-0.0349	0.9994	0.0001	-0.11340	-0.11952	-0.22952	-0.13374
424.6399	86.8076	205.1283	15.0346	-0.0349	0.9994	0.0001	-0.10633	-0.10983	-0.22300	-0.12341
429.4201	86.9743	204.2681	21.2994	-0.0349	0.9994	0.0001	-0.09866	-0.09957	-0.21554	-0.11356
435.4765	87.1856	204.3541	29.8480	-0.0349	0.9994	0.0001	-0.09070	-0.08893	-0.20802	-0.10380
443.0729	87.4506	204.4152	40.9873	-0.0349	0.9994	0.0000	-0.08347	-0.07886	-0.20183	-0.09417
452.4373	87.7771	204.4963	54.4629	-0.0349	0.9994	0.0000	-0.07716	-0.07334	-0.19777	-0.08344
463.6373	88.1684	204.6837	72.							

409.0180	86.2622	255.9647	0.9952	-0.0352	0.9994	-0.0002	-0.14712	-0.16873	-0.25156	-0.20460
409.9984	86.2967	255.7387	1.3758	-0.0352	0.9994	-0.0002	-0.14351	-0.16317	-0.24873	-0.19601
411.1370	86.3367	255.4979	1.9182	-0.0350	0.9994	-0.0002	-0.13990	-0.15750	-0.24604	-0.18726
412.4778	86.3836	255.2385	2.6333	-0.0350	0.9994	-0.0002	-0.13609	-0.15156	-0.24300	-0.17815
414.0763	86.4396	254.9595	3.6560	-0.0350	0.9994	-0.0002	-0.13215	-0.14541	-0.24000	-0.16933
416.0186	86.5074	254.6565	5.1176	-0.0349	0.9994	-0.0001	-0.12787	-0.13884	-0.23231	-0.15933
418.4132	86.5909	254.3256	7.2174	-0.0349	0.9994	-0.0001	-0.12312	-0.13187	-0.22748	-0.14958
421.4023	86.6951	253.9614	10.2516	-0.0349	0.9994	-0.0001	-0.11790	-0.12436	-0.22164	-0.13986
425.1696	86.8264	253.5631	14.6173	-0.0348	0.9994	-0.0001	-0.11206	-0.11631	-0.21482	-0.13036
429.9418	86.9928	253.1334	20.8040	-0.0348	0.9994	-0.0001	-0.10549	-0.10757	-0.20722	-0.12117
435.9754	87.2033	252.6766	29.2771	-0.0349	0.9994	0.0000	-0.09846	-0.09832	-0.19946	-0.11249
443.5326	87.4669	252.2072	40.3514	-0.0349	0.9994	0.0000	-0.09113	-0.08850	-0.19311	-0.10363
452.8309	87.7913	251.7469	53.7846	-0.0349	0.9994	0.0000	-0.08447	-0.07897	-0.18864	-0.09455
463.9688	88.1801	251.3299	68.4836	-0.0349	0.9994	0.0000	-0.07858	-0.06963	-0.18550	-0.08410
476.8465	88.6297	250.9985	83.2567	-0.0349	0.9994	0.0000	-0.07551	-0.06198	-0.18242	-0.07374
491.1096	89.1277	250.7798	99.2670	-0.0349	0.9994	0.0000	-0.07251	-0.05537	-0.17924	-0.06195
506.1695	89.5535	250.7132	96.0989	-0.0349	0.9994	0.0000	-0.07954	-0.05494	-0.20985	-0.05709
521.3112	90.1821	250.8086	92.9359	-0.0349	0.9994	0.0000	-0.09005	-0.05865	-0.23240	-0.05487
534.0330	90.6262	250.9896	62.8406	-0.0349	0.9994	0.0000	-0.13491	-0.08998	-0.24710	-0.06971
405.5421	86.1393	256.0003	0.0455	-0.0355	0.9994	0.0000	-0.17010	-0.19390	-0.27359	-0.23192
406.1252	86.1500	256.0008	0.1525	-0.0355	0.9994	0.0000	-0.16269	-0.18985	-0.26354	-0.23433
406.7615	86.1825	256.0004	0.2861	-0.0354	0.9994	0.0000	-0.15710	-0.18296	-0.25887	-0.22660
407.4618	86.2074	256.0001	0.4572	-0.0354	0.9994	0.0000	-0.15318	-0.17670	-0.25506	-0.21716
408.2442	86.2350	256.9999	0.6809	-0.0353	0.9994	0.0000	-0.14931	-0.17097	-0.25144	-0.20887
409.1243	86.2661	256.9999	0.9649	-0.0352	0.9994	0.0000	-0.14559	-0.16517	-0.24492	-0.20026
410.1203	86.3011	256.9994	1.3374	-0.0352	0.9994	0.0000	-0.14193	-0.15941	-0.24492	-0.19154
411.2731	86.3416	256.9985	1.8697	-0.0350	0.9994	0.0000	-0.13832	-0.15368	-0.24187	-0.18280
412.6273	86.3890	256.9976	2.5748	-0.0350	0.9994	0.0000	-0.13452	-0.14775	-0.23847	-0.17378
414.2380	86.4454	256.9972	3.5846	-0.0349	0.9994	0.0000	-0.13069	-0.14179	-0.23505	-0.16480
416.1908	86.5135	256.9976	5.0298	-0.0349	0.9994	0.0000	-0.12650	-0.13551	-0.23112	-0.15560
418.5933	86.5974	256.9988	7.1080	-0.0349	0.9994	0.0000	-0.12198	-0.12894	-0.22698	-0.14680
421.5874	86.7017	256.9982	10.1195	-0.0348	0.9994	0.0000	-0.11703	-0.12203	-0.22153	-0.13738
425.3568	86.8331	256.9985	14.4607	-0.0348	0.9994	0.0000	-0.11151	-0.11464	-0.21545	-0.12869
430.1265	86.9994	256.9989	20.6167	-0.0348	0.9994	0.0000	-0.10556	-0.10685	-0.20841	-0.12038
436.1521	87.2095	256.9989	29.0622	-0.0349	0.9994	0.0000	-0.09885	-0.09812	-0.20072	-0.11254
443.6952	87.4726	256.9989	40.1124	-0.0349	0.9994	0.0000	-0.09207	-0.08888	-0.19283	-0.10434
452.9735	87.7964	256.9973	53.3336	-0.0349	0.9994	0.0000	-0.08599	-0.07973	-0.18644	-0.09570
464.0864	88.1842	256.9958	68.5335	-0.0349	0.9994	0.0000	-0.08068	-0.07061	-0.18182	-0.08555
476.9347	88.6328	256.9936	83.0127	-0.0349	0.9994	0.0000	-0.07578	-0.06323	-0.18275	-0.07559
491.1667	89.1284	256.9933	99.0008	-0.0349	0.9994	0.0000	-0.07206	-0.05575	-0.18544	-0.06441
506.1961	89.5544	256.9963	92.7448	-0.0349	0.9994	0.0000	-0.08206	-0.05602	-0.20287	-0.05836
521.3067	90.1819	257.0015	62.9548	-0.0349	0.9994	0.0000	-0.09212	-0.05961	-0.22370	-0.05527
534.0232	90.6258	257.0012	62.9548	-0.0349	0.9994	0.0000	-0.12167	-0.07357	-0.23328	-0.04797
405.5314	86.1389	257.0819	0.0473	-0.0355	0.9994	0.0005	-0.16977	-0.19338	-0.27136	-0.23206
406.0934	86.1588	257.2512	0.1583	-0.0356	0.9994	0.0004	-0.16246	-0.18920	-0.26103	-0.23441
406.7092	86.1807	257.4308	0.2968	-0.0355	0.9994	0.0001	-0.15686	-0.18214	-0.25605	-0.21728
407.3902	86.2048	257.6205	0.4735	-0.0354	0.9994	0.0001	-0.15287	-0.17569	-0.25209	-0.21264
408.1545	86.2318	257.8212	0.7036	-0.0353	0.9994	0.0001	-0.14891	-0.16963	-0.24783	-0.20836
409.0174	86.2622	258.0348	0.9943	-0.0352	0.9994	0.0002	-0.14512	-0.16369	-0.24478	-0.19979
409.9974	86.2967	258.2598	1.3742	-0.0352	0.9994	0.0002	-0.14143	-0.15774	-0.24179	-0.19083
411.1358	86.3367	258.4987	1.9169	-0.0350	0.9994	0.0002	-0.13779	-0.15183	-0.23790	-0.18190
412.4770	86.3836	258.7563	2.6327	-0.0350	0.9994	0.0002	-0.13401	-0.14510	-0.23423	-0.17275
414.0762	86.4396	259.0345	3.6561	-0.0349	0.9994	0.0002	-0.13019	-0.14010	-0.23053	-0.16370
416.0191	86.5074	259.3385	5.1177	-0.0349	0.9994	0.0001	-0.12609	-0.13401	-0.22630	-0.15457
418.4133	86.5909	259.6717	7.2182	-0.0348	0.9994	0.0001	-0.12170	-0.12777	-0.22156	-0.14560
421.4019	86.6951	260.0346	10.2528	-0.0348	0.9994	0.0001	-0.11693	-0.12126	-0.21613	-0.13690
425.1699	86.8265	260.4317	14.6184	-0.0348	0.9994	0.0001	-0.11164	-0.11437	-0.20977	-0.12866
429.9425	86.9929	260.8634	20.8002	-0.0348	0.9994	0.0001	-0.10582	-0.10692	-0.20243	-0.12091
435.9759	87.2033	261.3209	29.2722	-0.0349	0.9994	0.0000	-0.09971	-0.09888	-0.19451	-0.11360
443.5326	87.4669	261.7905	40.3431	-0.0349	0.9994	0.0000	-0.09335	-0.08997	-0.18632	-0.10581
452.8327	87.7914	262.2476	53.7811	-0.0349	0.9994	0.0000	-0.08773	-0.08104	-0.17969	-0.09741
463.9692	88.1802	262.6618	68.4833	-0.0349	0.9994	0.0000	-0.08287	-0.07200	-0.17487	-0.08742
476.8466	88.6297	262.9967	83.2465	-0.0349	0.9994	0.0000	-0.08078	-0.06478	-0.17595	-0.07769
491.1094	89.1277	263.2098	99.2697	-0.0349	0.9994	0.0000	-0.07889	-0.05776	-0.17867	-0.06694
506.1701	89.5535	263.2792	96.1037	-0.0349	0.9994	0.0000	-0.08384	-0.05677	-0.19681	-0.05958
521.3108	90.1820	263.1944	92.9212	-0.0349	0.9994	0.0000	-0.09312	-0.05982	-0.21893	-0.05558
534.0322	90.6261	263.0128	62.8496	-0.0349	0.9994	0.0000	-0.09929	-0.05042	-0.23141	-0.05297
405.5012	86.1378	257.1634	0.0517	-0.0352	0.9994	-0.0003	-0.17018	-0.19420	-0.27184	-0.23597
406.0034	86.1556	257.5017	0.1730	-0.0353	0.9994	-0.0001	-0.16390	-0.18606	-0.26377	-0.23552
406.5610	86.1754	257.8612	0.3240	-0.0354	0.9994	-0.0002	-0.15776	-0.17755	-0.25703	-0.22825
407.1868	86.1975	258.2410	0.5152	-0.0354	0.9994	-0.0002	-0.15376	-0.17245	-0.25213	-0.21501
407.8996	86.2227	258.6429	0.7623	-0.0354	0.9994	-0.0002	-0.14976	-0.17030	-0.24784	-0.21041
408.7139	86.2513	259.0695	1.0715	-0.0352	0.9994	-0.0002	-0.14591	-0.16414	-0.24392	-0.20151
409.6486	86.2842	259.5200	1.4720	-0.0351	0.9994	-0.0002	-0.14215	-0.15808	-0.23998	-0.19249
410.7462	86.3227	259.9987	1.9420	-0.0350	0.9994	-0.0002	-0.13843	-0.15211	-0.23620	-0.18338
412.0503	86.3683	260.5148	2.3761	-0.0350	0.9994	-0.0002	-0.13459	-0.14607	-0.23211	-0.17407
413.6164	86.4231	261.0716	3.8449	-0.0350	0.9994	-0.0002	-0.13071	-0.14011	-0.22800	-0.16482
415.5311	86.4900	261.6791	5.3496	-0.0349	0.9994	-0.0002	-0.12660	-0.13407	-0.22338	-0.15558
417.9029	86.5727	262.3443	7.4949	-0.0349	0.9994	-0.0002	-0.12223	-0.12797	-0.21829	-0.14659
420.8771	86.6764	263.0708	10.5934	-0.0349	0.9994	-0.0001	-0.11753	-0.12171	-0.21249	-0.13798
424.6411	86.8077	263.8656	15.0360	-0.0349	0.9994	-0.0001	-0.11240	-0.11518	-0.20580	-0.12998
429.4218	86.9744	264.7280	21.2935	-0.0349	0.9994	-0.0001	-0.10678	-0.10810	-0.19810	-0.12254
435.4778	87.1857	265.6427	29.8397	-0.0349	0.9994	-0.0001	-0.10098	-0.10038	-0.18993	-0.11556
443.0734	87.4507	266.5818	40.9752	-0.0349	0.9994	0.0000	-0.09501	-0.09167	-0.18143	-0.10800
452.4275	87.7771	267.4977	54.4570	-0.0349	0.9994	0.0000	-0.08985	-0.08282	-0.17447	-0.09973
463.6386	88.1685	268.3276	69.1760	-0.0349	0.9994	0.0000	-0.08554	-0.07384	-0.16942	-0.08988
476.6013	88.6211	268.9967	82.9180	-0.0349	0.9994	0.0000	-0.08399	-0.06690	-0.16394	-0.08054
490.9555	89.1223	269.4247	92.8824	-0.0349	0.9994	0.0000	-0.08294	-0.06061	-0.17302	-0.07049
506.1069	89.6513	269.5623	96.6657	-0.0349	0.9994	0.0000	-0.08704	-0.05911	-0.19197	-0.06368
521.3337	90.1828	269.3873	62.4429	-0.0349	0.9994	0.0000	-0.08615	-0.04019	-0.21567	-0.06135
534.0642	90.6273	269.0244	62.4779	-0.0349	0.9994	0.0001	-0.17029	-0.19421	-0.27066	-0.23437
405.4552										

434.7197	87.1589	269.9642	30.6616	-0.0349	0.9994	0.0001	-0.10255	-0.10244	-0.18472	-0.11832
442.3747	87.4260	271.3729	41.8966	-0.0349	0.9994	0.0001	-0.09692	-0.09387	-0.17585	-0.11085
451.8145	87.7555	272.7477	55.4547	-0.0349	0.9994	0.0000	-0.09218	-0.08507	-0.16857	-0.10261
463.1374	88.1509	273.9931	70.2128	-0.0349	0.9994	0.0000	-0.08831	-0.07614	-0.16340	-0.09278
476.2347	88.6082	274.9964	83.9550	-0.0349	0.9994	0.0000	-0.08721	-0.06941	-0.16445	-0.08350
490.7405	89.1148	275.6395	93.9094	-0.0349	0.9994	0.0000	-0.08689	-0.06352	-0.16724	-0.07344
506.0407	89.6490	275.8452	97.5373	-0.0349	0.9994	0.0000	-0.09149	-0.06298	-0.18719	-0.06806
521.4035	90.1852	275.5797	94.2896	-0.0349	0.9994	0.0000	-0.10275	-0.06970	-0.21322	-0.06773
534.1325	90.6296	275.0354	61.6825	-0.0349	0.9994	0.0000	-0.08491	-0.05694	-0.23955	-0.05382
405.3967	86.1341	257.3239	0.0618	-0.0357	0.9994	0.0002	-0.17147	-0.19734	-0.27438	-0.24167
405.6904	86.1445	257.9944	0.2079	-0.0356	0.9994	0.0001	-0.16615	-0.19375	-0.26584	-0.24270
406.0431	86.1569	258.7074	0.3890	-0.0354	0.9994	0.0001	-0.16130	-0.18740	-0.26080	-0.23645
406.4735	86.1720	259.4609	0.6161	-0.0354	0.9994	0.0002	-0.15744	-0.18108	-0.25575	-0.22837
407.0026	86.1907	260.2578	0.9046	-0.0354	0.9994	0.0002	-0.15356	-0.17497	-0.25078	-0.22028
407.6427	86.2131	261.1060	1.2603	-0.0352	0.9994	0.0002	-0.14970	-0.16872	-0.24593	-0.21158
408.4174	86.2402	262.0025	1.7139	-0.0352	0.9994	0.0002	-0.14585	-0.16244	-0.24099	-0.20243
409.3716	86.2747	262.9573	2.3489	-0.0352	0.9994	0.0002	-0.14192	-0.15609	-0.23610	-0.19274
410.5461	86.3147	263.9877	3.1629	-0.0351	0.9994	0.0002	-0.13786	-0.14970	-0.23086	-0.18270
411.9991	86.3655	265.1003	4.3075	-0.0350	0.9994	0.0002	-0.13376	-0.14345	-0.22564	-0.17261
413.8197	86.4290	266.3142	5.9139	-0.0350	0.9994	0.0002	-0.12938	-0.13717	-0.21978	-0.16249
416.1196	86.5093	267.6436	8.1797	-0.0349	0.9994	0.0002	-0.12491	-0.13112	-0.21366	-0.15287
419.0502	86.6116	269.0988	11.1937	-0.0349	0.9994	0.0002	-0.12016	-0.12510	-0.20677	-0.14389
422.8038	86.7428	270.6908	16.0274	-0.0349	0.9994	0.0001	-0.11513	-0.11899	-0.19907	-0.13585
427.6148	86.9105	272.4176	22.4702	-0.0349	0.9994	0.0001	-0.10979	-0.11236	-0.19038	-0.12856
433.7496	87.1246	274.2507	31.2146	-0.0349	0.9994	0.0001	-0.10448	-0.10499	-0.18130	-0.12170
441.4796	87.3945	276.1342	42.5548	-0.0349	0.9994	0.0001	-0.09926	-0.09644	-0.17191	-0.11417
451.0289	87.7279	277.9744	56.2458	-0.0349	0.9994	0.0000	-0.09506	-0.08761	-0.16408	-0.10588
462.4972	88.1283	279.6429	71.1795	-0.0349	0.9994	0.0000	-0.09187	-0.07885	-0.15851	-0.09629
475.7744	88.5920	280.9878	85.1289	-0.0349	0.9994	0.0000	-0.09155	-0.07263	-0.15910	-0.08776
490.4889	89.1060	281.8517	95.2640	-0.0349	0.9994	0.0000	-0.09230	-0.06759	-0.16165	-0.07877
506.0044	89.6478	282.1277	98.8436	-0.0349	0.9994	0.0000	-0.09921	-0.06923	-0.18150	-0.07592
521.5632	90.1907	281.7696	95.4577	-0.0349	0.9994	0.0000	-0.11381	-0.07818	-0.20778	-0.07708
534.2579	90.6340	281.0444	60.2108	-0.0349	0.9994	0.0000	-0.11710	-0.08647	-0.23176	-0.08295
405.3229	86.1315	257.3783	0.0675	-0.0351	0.9994	0.0001	-0.17275	-0.19643	-0.27278	-0.23668
405.4676	86.1365	258.1643	0.2248	-0.0354	0.9994	0.0000	-0.16809	-0.19516	-0.26418	-0.24174
405.6719	86.1437	259.0080	0.4176	-0.0354	0.9994	0.0001	-0.16378	-0.19076	-0.25861	-0.23994
405.9593	86.1538	259.9097	0.6548	-0.0353	0.9994	0.0001	-0.16011	-0.18522	-0.25391	-0.23433
406.3521	86.1676	260.8734	0.9509	-0.0353	0.9994	0.0001	-0.15633	-0.17929	-0.24888	-0.22740
406.8627	86.1854	261.9077	1.3219	-0.0352	0.9994	0.0002	-0.15243	-0.17305	-0.24402	-0.21941
407.5208	86.2084	263.0128	1.7915	-0.0352	0.9994	0.0002	-0.14851	-0.16660	-0.23907	-0.21049
408.3716	86.2382	264.1997	2.4367	-0.0352	0.9994	0.0002	-0.14442	-0.15993	-0.23404	-0.20058
409.4536	86.2760	265.4866	3.2730	-0.0352	0.9994	0.0002	-0.14017	-0.15318	-0.22863	-0.19008
410.8288	86.3240	266.8829	4.4431	-0.0351	0.9994	0.0002	-0.13591	-0.14662	-0.22322	-0.17937
412.5870	86.3854	268.4110	6.0860	-0.0350	0.9994	0.0003	-0.13138	-0.14011	-0.21713	-0.16858
414.8422	86.4641	270.0881	8.4033	-0.0350	0.9994	0.0003	-0.12675	-0.13392	-0.21072	-0.15830
417.7480	86.5656	271.9263	11.7087	-0.0350	0.9994	0.0002	-0.12192	-0.12795	-0.20350	-0.14887
421.4990	86.6966	273.9388	16.4135	-0.0349	0.9994	0.0001	-0.11691	-0.12204	-0.19647	-0.14058
426.3346	86.8654	276.1213	22.9944	-0.0349	0.9994	0.0001	-0.11166	-0.11563	-0.18638	-0.13311
432.5270	87.0816	278.4391	31.9220	-0.0349	0.9994	0.0001	-0.10651	-0.10839	-0.17680	-0.12598
440.3537	87.3549	280.8211	43.4906	-0.0349	0.9994	0.0001	-0.10160	-0.09985	-0.16693	-0.11810
450.0435	87.6932	283.1493	57.4384	-0.0349	0.9994	0.0001	-0.09774	-0.09092	-0.15854	-0.10944
461.5994	88.1002	285.2615	72.6288	-0.0349	0.9994	0.0001	-0.09496	-0.08205	-0.15261	-0.09938
475.2107	88.5721	286.9646	86.8003	-0.0349	0.9994	0.0000	-0.09520	-0.07580	-0.15290	-0.09009
490.1962	89.0959	288.0598	97.0632	-0.0350	0.9994	0.0000	-0.09685	-0.07114	-0.15610	-0.08066
506.0009	89.6477	288.4095	100.6786	-0.0348	0.9994	0.0000	-0.10701	-0.07533	-0.17641	-0.07994
521.8204	90.1996	287.9566	96.9473	-0.0349	0.9994	0.0000	-0.12356	-0.08520	-0.20405	-0.08225
534.4435	90.6404	287.0508	58.0400	-0.0349	0.9994	0.0000	-0.14943	-0.10901	-0.22896	-0.10347

plate top lower

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
385.4524	85.2660	218.4233	10.8484	-0.1120	0.9935	-0.0214	-0.67068	-0.64131	-1.33783	-0.71599
387.9487	85.4748	217.5253	14.5773	-0.0654	0.9978	-0.0077	-0.65509	-0.70792	-1.39553	-0.77086
390.5687	85.6124	215.6262	14.1114	-0.0437	0.9990	-0.0005	-0.64399	-0.77962	-1.13912	-0.84031
392.9273	85.7020	213.6277	12.1756	-0.0314	0.9994	0.0000	-0.63296	-0.81824	-1.06810	-0.88140
395.0069	85.7712	211.9167	9.7669	-0.0349	0.9994	0.0000	-0.61930	-0.81711	-1.04931	-0.88294
396.7636	85.8325	210.5567	7.5156	-0.0349	0.9994	0.0000	-0.60183	-0.79112	-1.03422	-0.87722
398.1743	85.8813	209.5564	5.6264	-0.0349	0.9994	0.0000	-0.58520	-0.77104	-1.01742	-0.85495
399.2605	85.9197	208.8713	4.1966	-0.0349	0.9994	0.0000	-0.56950	-0.75281	-1.00000	-0.80080
400.0878	85.9486	208.4507	3.2316	-0.0349	0.9994	0.0000	-0.55979	-0.74272	-1.01627	-0.78709
400.7429	85.9715	207.8708	2.7637	-0.0349	0.9994	0.0000	-0.55312	-0.73921	-1.01431	-0.78183
401.3625	85.9931	207.5156	2.1957	-0.0349	0.9994	0.0000	-0.54557	-0.73340	-1.01482	-0.77363
402.0344	86.0166	207.1102	1.6355	-0.0349	0.9994	0.0000	-0.53828	-0.72809	-1.01467	-0.76459
402.7381	86.0419	206.6658	1.1635	-0.0349	0.9994	0.0000	-0.53091	-0.72386	-1.01456	-0.75573
403.5425	86.0693	206.1859	0.8404	-0.0349	0.9994	0.0000	-0.52287	-0.72024	-1.01447	-0.74634
404.4025	86.0993	205.6688	0.5456	-0.0349	0.9994	0.0000	-0.51424	-0.71722	-1.01443	-0.73648
405.3569	86.1326	205.1070	0.30018	-0.0349	0.9994	0.0000	-0.50403	-0.71343	-1.01443	-0.72500
406.4351	86.1702	204.4905	0.16270	-0.0349	0.9994	0.0000	-0.49224	-0.70890	-1.01443	-0.71170
407.6730	86.2135	203.8072	0.08484	-0.0349	0.9994	0.0000	-0.47723	-0.70126	-1.01443	-0.69494
409.1180	86.2640	203.0440	0.04161	-0.0349	0.9994	0.0000	-0.45881	-0.69221	-1.01443	-0.67430
410.8364	86.3239	202.2029	0.02364	-0.0349	0.9994	0.0000	-0.43781	-0.68266	-1.01443	-0.64186
412.9066	86.3962	201.3059	0.01369	-0.0349	0.9994	0.0000	-0.41379	-0.67238	-1.01443	-0.59853
415.4433	86.4849	200.4060	0.00730	-0.0349	0.9994	0.0000	-0.38739	-0.66138	-1.01443	-0.53171
418.6268	86.5960	199.5855	0.00408	-0.0349	0.9994	0.0000	-0.35958	-0.64984	-1.01443	-0.45408
422.6586	86.7368	198.7908	0.00253	-0.0349	0.9994	0.0000	-0.33011	-0.63701	-1.01443	-0.34886
427.7556	86.9148	198.0495	0.00153	-0.0349	0.9994	0.0000	-0.29958	-0.62301	-1.01443	-0.24633
434.1573	87.1384	198.2539	0.00093	-0.0349	0.9994	0.0000	-0.26773	-0.60828	-1.01443	-0.18131
442.0292	87.4133	198.7780	0.00057	-0.0349	0.9994	0.0000	-0.23501	-0.59284	-1.01443	-0.10893
451.4201	87.7412	199.5252	0.00036	-0.0349	0.9994	0.0000	-0.20123	-0.57652	-1.01443	-0.03659
462.2226	88.1188	198.7052	0.00023	-0.0349	0.9994	0.0000	-0.16841	-0.55979	-1.01443	-0.07760
474.1660	88.5355	198.5742	0.00015	-0.0349	0.9994	0.0000	-0.13641	-0.54285	-1.01443	-0.05837
486.1186	89.0038	198.5226	0.00009	-0.0349	0.9994	0.0000	-0.10523	-0.52557	-1.01443	-0.05274
499.2782	89.5244	198.4740	0.00005	-0.0349	0.9994	0.0000	-0.07500	-0.50799	-1.01443	-0.05943
509.5161	89.7699	198.3243	0.00003	-0.0349	0.9994	0.0000	-0.04621	-0.49057	-1.01443	-0.05953
382.1948	84.9457	222.9766	17.0009	-0.1442	0.9893	-0.0241	-0.53909	-0.54757	-1.31473	-0.59955
385.7672	85.3333	222.9098	15.0442	-0.0716	0.9974	-0.0055	-0.46764	-0.62855	-1.09147	-0.69956
389.5832	85.5641	220.9878	12.9914	-0.0432	0.9991	-0.0028	-0.49466	-0.71077	-1.04246	-0.75956
392.7303	85.6921	218.5794	11.3881	-0.0348	0.9994	-0.0001	-0.46602	-0.73993	-1.06549	-0.79407
395.2001	85.7781	216.4664	9.3685	-0.0347	0.9994	-0.0001	-0.43388	-0.73993	-1.06549	-0.79407
397.1268	85.8452	213.7552	7.3759	-0.0349	0.9994	0.0000	-0.41023	-0.72434	-1.06549	-0.76639
398.6124	85.8971	213.0847	5.7198	-0.0349	0.9994	0.0000	-0.38739	-0.70828	-1.06549	-0.71742
399.7561	85.9370	212.7497	4.5204	-0.0349	0.9994	0.0000	-0.36344	-0.69190	-1.06549	-0.67500
400.6717	85.9690	212.7497	3.8576	-0.0349	0.9994	0.0000	-0.33935	-0.67500	-1.06549	-0.64870
401.4359	85.9957	212.7497	3.3759	-0.0349	0.9994	0.0000	-0.31523	-0.65858	-1.06549	-0.62344
402.1857	86.0219	212.7497	3.0112	-0.0349	0.9994	0.0000	-0.29111	-0.64216	-1.06549	-0.60066
403.0221	86.0484	212.7497	2.7497	-0.0349	0.9994	0.0000	-0.26773	-0.62579	-1.06549	-0.58123
403.9221	86.0752	212.7497	2.5111	-0.0349	0.9994	0.0000	-0.24423	-0.60938	-1.06549	-0.56399
404.8802	86.1023	212.7497	2.2884	-0.0349	0.9994	0.0000	-0.22071	-0.59296	-1.06549	-0.54844
405.8595	86.1298	212.7497	2.0740	-0.0349	0.9994	0.0000	-0.19719	-0.57652	-1.06549	-0.53448
406.9309	86.1576	212.7497	1.8766	-0.0349	0.9994	0.0000	-0.17367	-0.56009	-1.06549	-0.52148
408.1016	86.1857	212.7497	1.6966	-0.0349	0.9994	0.0000	-0.15015	-0.54367	-1.06549	-0.50949
409.4065	86.2140	212.7497	1.5325	-0.0349	0.9994	0.0000	-0.12663	-0.52724	-1.06549	-0.49849
410.8903	86.2428	212.7497	1.3840	-0.0349	0.9994	0.0000	-0.10311	-0.51082	-1.06549	-0.48849
412.6128	86.2720	212.7497	1.2500	-0.0349	0.9994	0.0000	-0.07959	-0.49439	-1.06549	-0.47949
414.6466	86.3016	212.7497	1.1300	-0.0349	0.9994	0.0000	-0.05607	-0.47796	-1.06549	-0.47149
417.0967	86.3316	212.7497	1.0200	-0.0349	0.9994	0.0000	-0.03255	-0.46153	-1.06549	-0.46449
420.1284	86.3620	212.7497	0.9200	-0.0349	0.9994	0.0000	-0.00903	-0.44509	-1.06549	-0.45849
423.9436	86.3928	212.7497	0.8300	-0.0349	0.9994	0.0000	0.01449	-0.42865	-1.06549	-0.45349
428.8037	86.4240	212.7497	0.7500	-0.0349	0.9994	0.0000	0.03895	-0.41221	-1.06549	-0.44849
435.0225	86.4556	212.7497	0.6800	-0.0349	0.9994	0.0000	0.06341	-0.39577	-1.06549	-0.44349
442.8146	86.4876	212.7497	0.6200	-0.0349	0.9994	0.0000	0.08787	-0.37933	-1.06549	-0.43849
452.2195	86.5200	212.7497	0.5700	-0.0349	0.9994	0.0000	0.11233	-0.36289	-1.06549	-0.43349
463.1266	86.5528	212.7497	0.5300	-0.0349	0.9994	0.0000	0.13679	-0.34645	-1.06549	-0.42849
475.1988	86.5860	212.7497	0.5000	-0.0349	0.9994	0.0000	0.16125	-0.33001	-1.06549	-0.42349
487.9035	86.6196	212.7497	0.4700	-0.0349	0.9994	0.0000	0.18571	-0.31357	-1.06549	-0.41849
500.5951	86.6536	212.7497	0.4400	-0.0349	0.9994	0.0000	0.21017	-0.29713	-1.06549	-0.41349
511.4330	86.6880	212.7497	0.4100	-0.0349	0.9994	0.0000	0.23463	-0.28069	-1.06549	-0.40849
378.8824	84.4989	227.1407	10.1413	-0.1811	0.9832	-0.0218	-0.48136	-0.47229	-1.32233	-0.58391
382.7973	85.0461	227.4615	11.9872	-0.1002	0.9949	-0.0083	-0.44157	-0.53932	-1.06549	-0.52391
387.2809	85.4196	226.0123	15.9850	-0.0601	0.9982	-0.0065	-0.44972	-0.61932	-1.06549	-0.67118
391.1893	85.6284	223.7241	13.3709	-0.0394	0.9992	-0.0020	-0.41932	-0.64494	-1.06549	-0.71068
394.2184	85.7441	221.4917	10.7784	-0.0346	0.9994	-0.0001	-0.38784	-0.61770	-1.06549	-0.70618
396.4708	85.8223	219.7497	8.4187	-0.0348	0.9994	0.0000	-0.35723	-0.55943	-1.06549	-0.65214
398.1251	85.8801	218.6001	6.5180	-0.0349	0.9994	0.0000	-0.32658	-0.51438	-1.06549	-0.57862
399.3574	85.9231	217.9530	5.1801	-0.0349	0.9994	0.0000	-0.29593	-0.46933	-1.06549	-0.53817
400.3309	85.9571	217.6202	4.2740	-0.0349	0.9994	0.0000	-0.26528	-0.42428	-1.06549	-0.51465
401.1551	85.9859	217.4621	3.6202	-0.0349	0.9994	0.0000	-0.23463	-0.37923	-1.06549	-0.49183
402.0174	86.0150	217.2739	3.0112	-0.0349	0.9994	0.0000	-0.20398	-0.33418	-1.06549	-0.47130
403.0398	86.0457	217.0739	2.5111	-0.0349	0.9994	0.0000	-0.17333	-0.28913	-1.06549	-0.45313
404.3424	86.0770	216.8666	2.1100	-0.0349	0.9994	0.0000	-0.14268	-0.24408	-1.06549	-0.43706
406.5695	86.1100	216.6500	1.7100	-0.0349	0.9994	0.0000	-0.11203	-0.19903	-1.06549	-0.42224
407.8478	86.1436	216.4336	1.4000	-0.0349	0.9994	0.0000	-0.08138	-0.15398	-1.06549	-0.40774
409.1988	86.1776	216.2176	1.1840	-0.0349	0.9994	0.0000	-0.05073	-0.10893	-1.06549	-0.39313
410.6549	86.2116	216.0016	1.0184	-0.0349	0.9994	0.0000	-0.02008	-0.06388	-1.06549	-0.37853
412.2589	86.2456	215.7856	0.8880	-0.0349	0.9994	0.0000	0.01058	-0.01883	-1.06549	-0.36393
414.0678	86.2800	215.5696	0.7880	-0.0349	0.9994	0.0000	0.03104	0.02573	-1.06549	-0.34933
416.1523	86.3146	215.3536	0.7080	-0.0349	0.9994	0.0000	0.05150	0.04118	-1.06549	-0.33473
418.6123	86.3496	215.1376	0.6480	-0.0349	0.9994	0.0000	0.07196	0.05583	-1.06549	-0.32013
421.5998	86.3850	214.9216	0.5980	-0.0349	0.9994	0.0000	0.09242	0.07016	-1.06549	-0.30553
425.3159	86.4206	214.7056	0.5580	-0.0349	0.9994	0.0000	0.11288	0.08439	-1.06549	-0.29093
430.0384	86.4566	214.4896	0.5180	-0.0349	0.9994	0.0000	0.13334	0.09862	-1.06549	-0.27633
436.1207	86.4926	214.2736	0.4780	-0.0349						

384.8201	85.2022	230.9397	19.5916	-0.0789	0.9968	0.0125	-0.43514	-0.56227	-0.72367	-0.61994
389.1773	85.5158	229.0251	16.7678	-0.0556	0.9984	0.0042	-0.40120	-0.58368	-0.55442	-0.65520
392.6346	85.6861	226.9718	13.5107	-0.0376	0.9993	0.0002	-0.37008	-0.57579	-0.60168	-0.67215
395.1932	85.7786	225.2881	10.4788	-0.0341	0.9994	-0.0001	-0.33090	-0.52196	-0.55687	-0.63400
397.0351	85.8420	224.1615	8.0385	-0.0349	0.9994	0.0000	-0.30719	-0.46395	-0.55870	-0.55649
398.3769	85.8889	223.5408	6.3652	-0.0348	0.9994	0.0000	-0.29559	-0.43845	-0.53834	-0.50480
399.4200	85.9253	223.3119	5.5828	-0.0349	0.9994	0.0000	-0.28119	-0.41936	-0.52320	-0.47700
400.2954	85.9558	223.2752	4.8430	-0.0349	0.9994	0.0000	-0.26937	-0.40203	-0.50026	-0.45466
401.2334	85.9886	223.1111	4.0514	-0.0349	0.9994	0.0000	-0.25905	-0.38760	-0.48471	-0.43624
402.3904	86.0290	222.6473	3.7527	-0.0349	0.9994	0.0000	-0.24894	-0.37297	-0.47224	-0.41610
403.6948	86.0746	221.9215	3.0903	-0.0349	0.9994	0.0000	-0.24035	-0.36045	-0.46544	-0.39829
405.0905	86.1233	221.0214	2.7185	-0.0349	0.9994	0.0000	-0.23264	-0.34953	-0.46088	-0.38288
406.5445	86.1741	220.0329	2.2576	-0.0349	0.9994	0.0000	-0.22547	-0.34013	-0.45782	-0.36889
408.0463	86.2265	219.0150	1.7327	-0.0349	0.9994	0.0000	-0.21847	-0.33093	-0.45522	-0.35590
409.6059	86.2810	217.9864	1.2523	-0.0349	0.9994	0.0000	-0.21113	-0.32193	-0.45174	-0.34287
411.2486	86.3384	216.9845	0.7646	-0.0349	0.9994	0.0000	-0.20324	-0.31128	-0.44821	-0.32950
413.0135	86.3980	215.9751	0.2371	-0.0349	0.9994	0.0000	-0.19419	-0.29964	-0.44257	-0.31484
414.9548	86.4678	214.9589	0.9383	-0.0349	0.9994	0.0000	-0.18411	-0.28685	-0.43716	-0.29866
417.1426	86.5442	213.9294	0.9128	-0.0349	0.9994	0.0000	-0.17244	-0.27083	-0.42850	-0.27922
419.6745	86.6326	212.8867	11.2542	-0.0349	0.9994	0.0000	-0.15950	-0.25166	-0.42017	-0.25667
422.6956	86.7381	211.8409	13.0924	-0.0349	0.9994	0.0000	-0.14427	-0.22678	-0.40545	-0.22888
426.4070	86.8677	210.8173	15.4660	-0.0349	0.9994	0.0000	-0.12791	-0.19706	-0.39055	-0.19839
431.0947	87.0314	209.8768	18.4318	-0.0349	0.9994	0.0000	-0.10974	-0.16217	-0.36726	-0.16445
437.1359	87.2423	209.0438	21.9338	-0.0349	0.9994	0.0000	-0.09308	-0.12668	-0.34455	-0.13478
444.8678	87.5124	208.2681	25.3588	-0.0349	0.9994	0.0000	-0.08126	-0.10130	-0.33656	-0.11331
454.4257	87.8461	207.5327	27.9873	-0.0349	0.9994	0.0000	-0.07397	-0.08674	-0.34320	-0.09637
465.6722	88.2389	206.8744	29.4017	-0.0349	0.9994	0.0000	-0.06828	-0.07559	-0.35373	-0.08042
478.2038	88.6766	206.3405	29.6110	-0.0349	0.9994	0.0000	-0.06367	-0.06610	-0.36162	-0.06505
491.4069	89.1377	205.9578	28.8272	-0.0349	0.9994	0.0000	-0.05933	-0.05829	-0.35309	-0.05263
504.4754	89.5940	205.7090	27.2753	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
515.8988	89.9928	205.6393	23.1208	-0.0349	0.9994	0.0000	-0.07553	-0.06611	-0.36162	-0.06108
523.3293	83.4485	235.9664	21.0304	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
537.6905	84.3130	236.5582	23.3436	-0.0349	0.9994	0.0000	-0.07553	-0.06611	-0.36162	-0.06108
552.6907	84.9714	235.8944	25.8517	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
569.3743	85.3743	235.7405	20.7002	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
587.0403	85.7315	232.7810	15.0058	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
595.8043	85.7955	230.3840	8.8880	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
595.7889	85.8487	229.8333	7.7052	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
597.2777	85.8877	229.6277	6.6265	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
598.3430	85.9198	229.5730	5.4445	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
599.2629	85.9535	229.3379	6.7172	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
600.2291	85.9954	228.7392	7.4394	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
601.4289	86.0435	227.8127	7.7863	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
602.8054	86.0961	226.6605	7.9187	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
604.3118	86.1520	225.3924	7.9566	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
605.9131	86.2105	224.0910	7.9835	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
607.5884	86.2715	222.8027	8.0717	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
609.3339	86.3354	221.5449	8.2632	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
611.1626	86.4031	220.3174	8.4556	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
613.1038	86.4765	219.1103	8.6185	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
615.2054	86.5579	217.9125	8.7524	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
617.3343	86.6475	216.7153	8.8569	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
619.4868	86.7454	215.5183	8.9324	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
621.6655	86.8517	214.3297	9.0300	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
623.8655	86.9676	213.1857	9.1554	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
626.0943	87.0576	212.1046	9.2913	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
628.3466	87.1448	211.0640	9.4386	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
630.6177	87.2210	209.9749	9.5977	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
632.9089	87.2867	208.8302	9.7684	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
635.2191	87.3522	208.5028	9.9509	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
637.5493	87.4152	208.0302	10.1455	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
639.8995	87.4759	207.4949	10.3524	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
642.2697	87.5339	206.9063	10.5717	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
644.6599	87.5894	206.2657	10.8034	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
647.0691	87.6426	205.5773	11.0475	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
649.4973	87.6937	204.8373	11.3040	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
651.9445	87.7426	204.0507	11.5729	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
654.4107	87.7894	203.2130	11.8542	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
656.8959	87.8342	202.3310	12.1480	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
659.3991	87.8772	201.4020	12.4543	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
661.9203	87.9184	200.4237	12.7731	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
664.4595	87.9578	199.3937	13.1044	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
667.0167	87.9954	198.3100	13.4481	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
669.5919	88.0312	197.1709	13.8043	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
672.1851	88.0652	196.0000	14.1731	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
674.7963	88.0974	194.7857	14.5544	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
677.4255	88.1288	193.5344	14.9481	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
679.9727	88.1594	192.2437	15.3543	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
682.5379	88.1892	190.9120	15.7731	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
685.1201	88.2182	189.5379	16.2044	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
687.7193	88.2464	188.1190	16.6481	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
690.3355	88.2738	186.6540	17.1043	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
692.9687	88.3004	185.1523	17.5731	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
695.6189	88.3262	183.6120	18.0544	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
698.2851	88.3512	182.0327	18.5481	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
700.9673	88.3754	180.4130	19.0544	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
703.6655	88.3988	178.7527	19.5731	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
706.3797	88.4214	177.0500	20.1044	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
709.1099	88.4432	175.3057	20.6481	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
711.8561	88.4642	173.5180	21.2044	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
714.6183	88.4844	171.6867	21.7731	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
717.3965	88.5038	169.8100	22.3544	-0.0349	0.9994	0.0000	-0.07190	-0.06444		

398	7496	85	9019	242	4131	4	6507	-0.0349	0.9994	0.0000	-0.23937	-0	35493	-0	36206	-0	45084
399	5586	86	9302	241	9051	5	2308	-0.0349	0.9994	0.0000	-0.23122	-0	34058	-0	35198	-0	42870
400	5685	87	9619	241	0084	6	6587	-0.0349	0.9994	0.0000	-0.22186	-0	32399	-0	34908	-0	40319
401	5065	88	9982	239	7638	7	0485	-0.0349	0.9994	0.0000	-0.21344	-0	30908	-0	34460	-0	37920
402	7077	89	0401	238	2590	8	4351	-0.0349	0.9994	0.0000	-0.20505	-0	29479	-0	34301	-0	35624
403	0929	90	0885	236	5930	9	8313	-0.0349	0.9994	0.0000	-0.19672	-0	28070	-0	33977	-0	33383
404	6664	91	1434	234	8515	10	2427	-0.0349	0.9994	0.0000	-0.18867	-0	26711	-0	33623	-0	31235
405	4253	92	2048	233	0928	11	6864	-0.0349	0.9994	0.0000	-0.18067	-0	25380	-0	33332	-0	29257
406	3699	93	2727	231	3489	12	1786	-0.0349	0.9994	0.0000	-0.17292	-0	24094	-0	33040	-0	27340
407	5108	94	3475	229	6343	13	7657	-0.0349	0.9994	0.0000	-0.16526	-0	22823	-0	32749	-0	25595
408	8760	95	4301	227	9498	14	4932	-0.0349	0.9994	0.0000	-0.15760	-0	21573	-0	32458	-0	23933
409	5155	96	5222	226	2892	15	4293	-0.0349	0.9994	0.0000	-0.14962	-0	20271	-0	32167	-0	22312
410	5120	97	6269	224	6420	16	6755	-0.0349	0.9994	0.0000	-0.14121	-0	18902	-0	31876	-0	20697
411	9989	98	7187	222	9962	17	3762	-0.0349	0.9994	0.0000	-0.13195	-0	17390	-0	31585	-0	18995
412	1804	99	8947	221	3436	18	6666	-0.0349	0.9994	0.0000	-0.12180	-0	15725	-0	31294	-0	17199
413	3562	00	0754	219	6921	19	5504	-0.0349	0.9994	0.0000	-0.11056	-0	13944	-0	30970	-0	15312
414	9264	01	3049	218	0548	20	2106	-0.0349	0.9994	0.0000	-0.09884	-0	12172	-0	30646	-0	13410
415	2832	02	5967	216	4475	21	7305	-0.0349	0.9994	0.0000	-0.08773	-0	10592	-0	30314	-0	11591
416	6146	03	9975	214	9320	22	4475	-0.0349	0.9994	0.0000	-0.07839	-0	09201	-0	30023	-0	09836
417	7917	04	3828	213	6316	23	8599	-0.0349	0.9994	0.0000	-0.07065	-0	07895	-0	30000	-0	08089
418	3934	05	8580	212	0525	24	2917	-0.0349	0.9994	0.0000	-0.06463	-0	06719	-0	30000	-0	06438
419	7481	06	8580	211	0525	25	0083	-0.0349	0.9994	0.0000	-0.06002	-0	05772	-0	30000	-0	05185
420	8402	07	8580	210	9760	26	4610	-0.0349	0.9994	0.0000	-0.07047	-0	06107	-0	30000	-0	05229
421	4554	08	2581	212	6063	27	9658	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
422	5554	09	564	212	6063	28	1412	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
423	5554	10	3126	212	6063	29	9262	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
424	4886	11	3126	212	6063	30	9262	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
425	2232	12	1071	212	6063	31	6801	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
426	0774	13	5289	212	6063	32	1740	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
427	6950	14	7269	212	6063	33	7907	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
428	1698	15	8118	212	6063	34	0842	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
429	8287	16	8698	212	6063	35	2018	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
430	0415	17	9121	212	6063	36	0888	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
431	8944	18	9419	212	6063	37	1833	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
432	5056	19	9632	212	6063	38	4797	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
433	1213	20	9847	212	6063	39	8885	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
434	8167	21	0090	212	6063	40	2633	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
435	6626	22	0386	212	6063	41	7249	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
436	7084	23	0751	212	6063	42	2551	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
437	9812	24	1195	212	6063	43	8389	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
438	4946	25	1723	212	6063	44	4846	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
439	2597	26	2339	212	6063	45	2039	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
440	2950	27	3050	212	6063	46	0450	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
441	6337	28	3687	212	6063	47	0448	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
442	3289	29	4808	212	6063	48	2684	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
443	4638	30	5803	212	6063	49	7988	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
444	6578	31	7197	212	6063	50	7651	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
445	3777	32	8758	212	6063	51	2820	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
446	1589	33	0685	212	6063	52	4245	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
447	1072	34	3112	212	6063	53	0434	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
448	8505	35	6165	212	6063	54	5626	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
449	5691	36	9908	212	6063	55	2697	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
450	1462	37	4301	212	6063	56	8756	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
451	1791	38	9204	212	6063	57	5638	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
452	0001	39	4380	212	6063	58	5551	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
453	5510	40	9459	212	6063	59	7891	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
454	1881	41	3522	212	6063	60	5540	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
455	1234	42	7307	212	6063	61	9079	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
456	2854	43	2203	212	6063	62	1617	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
457	2591	44	1387	212	6063	63	9493	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
458	3098	45	5684	212	6063	64	3944	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
459	6352	46	7638	212	6063	65	5228	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
460	7626	47	9288	212	6063	66	5556	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
461	6406	48	9288	212	6063	67	5076	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
462	5188	49	9733	212	6063	68	7694	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
463	5009	50	0001	212	6063	69	3792	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
464	9623	51	0141	212	6063	70	2920	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
465	3087	52	0262	212	6063	71	4422	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
466	7014	53	0399	212	6063	72	7654	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
467	2221	54	0581	212	6063	73	2097	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
468	9308	55	0828	212	6063	74	7517	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
469	8696	56	1156	212	6063	75	3740	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
470	0676	57	1574	212	6063	76	0876	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
471	5509	58	2092	212	6063	77	9052	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
472	3543	59	2722	212	6063	78	8928	-0.0349	0.9994	0.0000	-0.05725	-0	04952	-0	30000	-0	04489
473	5292	60	3481	212	6063	7											

406.2876	86.1651	245.8997	4.0062	-0.0349	0.9994	0.0000	-0.17118	-0.22528	-0.29174	-0.27429
407.5122	86.2079	244.2611	4.7974	-0.0349	0.9994	0.0000	-0.16610	-0.21768	-0.29057	-0.26136
409.0685	86.2622	242.5150	5.7875	-0.0349	0.9994	0.0000	-0.16021	-0.20843	-0.28879	-0.24649
411.0269	86.3306	240.6510	7.0295	-0.0349	0.9994	0.0000	-0.15353	-0.19765	-0.28670	-0.23003
413.4819	86.4163	238.6578	8.6272	-0.0349	0.9994	0.0000	-0.14600	-0.18534	-0.28388	-0.21230
416.5617	86.5239	236.5255	10.6771	-0.0349	0.9994	0.0000	-0.13754	-0.17151	-0.28038	-0.19371
420.4374	86.6592	234.2493	13.3146	-0.0349	0.9994	0.0000	-0.12786	-0.15602	-0.27603	-0.17449
425.3265	86.8300	231.8417	16.5780	-0.0349	0.9994	0.0000	-0.11687	-0.13873	-0.27003	-0.15487
431.4881	87.0451	229.3380	20.4040	-0.0349	0.9994	0.0000	-0.10457	-0.11995	-0.26254	-0.13506
439.2125	87.3149	226.8047	24.5559	-0.0349	0.9994	0.0000	-0.09184	-0.10088	-0.25585	-0.11590
448.7622	87.6484	224.3394	29.6277	-0.0349	0.9994	0.0000	-0.08044	-0.08409	-0.25120	-0.09903
460.2676	88.0502	222.0891	35.2047	-0.0349	0.9994	0.0000	-0.07160	-0.07117	-0.25260	-0.08411
473.6295	88.5168	220.2405	42.0137	-0.0349	0.9994	0.0000	-0.06530	-0.06114	-0.26002	-0.06992
488.4785	89.0357	218.9775	50.9829	-0.0349	0.9994	0.0000	-0.06073	-0.05252	-0.26690	-0.05610
504.1596	89.5833	218.4517	62.8988	-0.0349	0.9994	0.0000	-0.06138	-0.04838	-0.27018	-0.04817
519.6584	90.1242	218.7879	77.9941	-0.0349	0.9994	0.0000	-0.07420	-0.05431	-0.29419	-0.04924
531.4355	90.5554	219.9119	95.0849	-0.0349	0.9994	0.0000	-0.09403	-0.07289	-0.25359	-0.06360
567.8432	81.6496	255.8415	10.9461	-0.3560	0.9337	-0.0108	0.23515	0.17114	-0.20576	0.03744
572.9255	83.2187	255.8890	13.0605	-0.2433	0.9697	-0.0211	0.21291	0.21537	-0.43800	-0.30910
579.0689	84.4315	255.9123	14.2609	-0.1487	0.9887	-0.0200	0.39880	-0.47124	-0.49619	-0.52875
585.5711	85.2161	255.9283	13.7163	-0.0901	0.9959	-0.0113	0.40696	-0.56589	-0.45078	-0.62692
591.5752	85.6286	255.9595	11.3328	-0.0433	0.9991	-0.0033	0.36439	-0.60050	-0.42398	-0.68670
596.4664	85.8225	256.0278	7.9745	-0.0347	0.9994	0.0004	0.26563	-0.46181	-0.34393	-0.62723
600.0421	85.9470	256.1273	4.8951	-0.0349	0.9994	0.0000	0.20331	-0.26961	-0.30566	-0.42718
602.4377	86.0307	256.2031	2.8861	-0.0349	0.9994	0.0000	0.19428	-0.24307	-0.29662	-0.29402
603.9690	86.0842	256.1925	2.0029	-0.0349	0.9994	0.0000	0.18051	-0.21790	-0.28225	-0.28351
604.6308	86.1073	255.8042	1.1344	-0.0349	0.9994	0.0000	0.17752	-0.21497	-0.28287	-0.26704
604.7483	86.1114	255.0403	1.1218	-0.0349	0.9994	0.0000	0.17596	-0.21577	-0.27711	-0.27235
604.8681	86.1156	254.1696	1.2874	-0.0349	0.9994	0.0000	0.17423	-0.21565	-0.27775	-0.27189
605.0491	86.1219	253.1976	1.5852	-0.0348	0.9994	0.0000	0.17309	-0.21612	-0.27705	-0.27167
605.3367	86.1319	252.1282	1.9685	-0.0349	0.9994	0.0000	0.17158	-0.21589	-0.27753	-0.27016
605.7609	86.1467	250.9567	2.4169	-0.0349	0.9994	0.0000	0.16973	-0.21486	-0.27803	-0.26699
606.3605	86.1677	249.6859	2.9339	-0.0349	0.9994	0.0000	0.16725	-0.21248	-0.27846	-0.26166
607.1782	86.1962	248.3125	3.5493	-0.0349	0.9994	0.0000	0.16403	-0.20852	-0.27858	-0.25400
608.2507	86.2337	246.8238	4.2505	-0.0349	0.9994	0.0000	0.16017	-0.20319	-0.27855	-0.24443
609.6390	86.2822	245.2127	5.1471	-0.0349	0.9994	0.0000	0.15556	-0.19628	-0.27804	-0.23288
611.4276	86.3446	243.4601	6.2897	-0.0349	0.9994	0.0000	0.15022	-0.18788	-0.27726	-0.21960
613.7262	86.4248	241.5493	7.7822	-0.0349	0.9994	0.0000	0.14397	-0.17780	-0.27581	-0.20463
616.6812	86.5280	239.4648	9.7351	-0.0349	0.9994	0.0000	0.13674	-0.16604	-0.27356	-0.18337
620.4837	86.6608	237.1968	12.3032	-0.0349	0.9994	0.0000	0.12828	-0.15247	-0.27044	-0.17113
625.3721	86.8316	234.7553	15.5846	-0.0349	0.9994	0.0000	0.11840	-0.13694	-0.26596	-0.15327
631.6144	87.0435	232.1764	19.6123	-0.0349	0.9994	0.0000	0.10704	-0.11975	-0.26009	-0.13513
639.4891	87.3245	229.5380	24.3025	-0.0349	0.9994	0.0000	0.09505	-0.10218	-0.25540	-0.11755
649.2307	87.6647	226.9615	29.4123	-0.0349	0.9994	0.0000	0.08415	-0.08690	-0.25318	-0.10198
660.9488	88.0739	224.6212	34.5760	-0.0349	0.9994	0.0000	0.07545	-0.07510	-0.25649	-0.08763
674.5375	88.5485	222.7259	39.3070	-0.0349	0.9994	0.0000	0.06907	-0.06551	-0.26533	-0.07322
689.6174	89.0756	221.4780	43.0957	-0.0350	0.9994	0.0000	0.06397	-0.05633	-0.27269	-0.05867
705.5287	89.6312	221.0391	45.2895	-0.0348	0.9994	0.0000	0.06390	-0.05117	-0.27587	-0.04958
721.3676	90.1838	221.4954	44.2677	-0.0349	0.9994	0.0000	0.07528	-0.05601	-0.29127	-0.04967
733.6021	90.6110	222.5693	22.2800	-0.0349	0.9994	0.0000	0.06424	-0.05007	-0.23223	-0.03942