EFFECTIVE METHODS OF CONTROLLING A JUNCTION VORTEX SYSTEM IN AN INCOMPRESSIBLE, THREE-DIMENSIONAL, TURBULENT FLOW

by

Jaiwon Shin

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APPROVED:

F. J. Pierce, Chairman

C. L. Dancey

T. E. Diller

D. J. Nelson

G. W. Swift

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(ABSTRACT)

An experimental investigation was conducted to find effective methods of controlling a junction vortex system around and in the wake of a NACA 0020 body with a 1.5:1 elliptical nose mounted normal to the flat surface. Control of the junction vortex system was investigated using more slender noses and leading edge fillets. The study includes surface flow visualizations, and extensive mean flow measurements. The mean flow measurements consist of velocity, total pressure, and static pressure distributions.

The results of the mean flow measurements around and in the wake of a NACA 0020 body with a 1.5:1 elliptical nose show the presence of a large, dominant vortex, or a primary horseshoe vortex, in the junction between the body and the flat surface. A smaller, co-rotating vortex relative to the primary horseshoe vortex was observed at the 100 percent chord position, which is believed to be identified with the corner separation at the junction near the trailing edge.

Mean flow measurements of the flow field around and in the wake of a NACA 0020 body with more slender noses were acquired. The results indicate that the more slender nose generated a weaker primary horseshoe vortex. The results also suggests that the weak primary horseshoe vortex developed by the more slender nose was dissipated

alongside the body to the point where it had a very small effect on the flow field at the 100 percent chord position.

The results of the mean flow measurements around and in the wake of a NACA 0020 body with a 1.5:1 elliptical nose with leading edge fillets indicate that the leading edge fillets were very effective in reducing the strength and size of the primary horseshoe vortex. The results suggest that an effective fillet should be about one boundary layer thickness high and two body thicknesses long.

The vorticity identified with the corner separation vortex was observed in the wake for both leading edge shape changes and fillets. The results show that the corner separation vortex dominates the flow in the wake due to the weak effects of the primary horseshoe vortex. A trailing edge fillet was used to investigate its effects on the corner separation vortex in the wake of the NACA 0020 body with the 1.5:1 elliptical nose with a leading edge fillet. The results indicate a small decrease in the strength of the corner separation vortex at the 150 percent chord position, but the effects on the wake pattern were small.

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TABLE OF CONTENTS

Page

ABSTRACT

ACKNOWLEDGMENTS iv

LIST OF FIGURES viii

LIST OF TABLES xviii

LIST OF SYMBOLS xli

1. INTRODUCTION 1

1.1 Literature Review 4

1.1.1 Junction Flows 4

1.1.1.1 Experimental Work 5
1.1.1.2 Numerical Work 11
1.1.1.3 Experimental Studies at VPI & SU 13

1.1.2 Turbine Cascades 20
1.1.3 Streamwise Vortices Embedded in a Turbulent Boundary Layer... 21

1.2 Present Study 24

2. FACILITIES 29

2.1 Wind Tunnel 29
2.2 Five-Hole Probe and Data Acquisition System 31
2.3 Bodies and Fillets 37

2.3.1 Bodies 37
2.3.2 Fillets 38

2.4 Coordinate System 40

3. METHODS 46

3.1 Probe Calibration 46
3.2 Positioning of a Body and the Probe 51
3.3 Probe Nulling 52
3.4 Data Grid and Measurement Planes 54
3.5 Uncertainty Estimates 54
3.6 Flow Visualization 66

4. RESULTS AND DISCUSSIONS 67

4.1 Flow Visualization 67
4.2 Five-Hole Probe Measurements 88
4.3 1.5:1 Elliptical Nose Body 93

4.3.1 Transverse Plane at 9 Percent Chord 94
4.3.2 Orthogonal Plane at the Body Surface at 9 Percent Chord 104
4.3.3 Transverse Plane at Maximum Thickness or 18 Percent Chord 112
4.3.4 43 Percent Chord Plane 119
4.3.5 100 Percent Chord Plane 125
4.3.6 150 Percent Chord Plane 132
4.3.7 Comparisons with the Teardrop Body 139
4.3.8 Comparisons with Other Studies 146

4.4 Leading Edge Shape Effects 147

4.4.1 4:1 Elliptical Nose Body 150

4.4.1.1 Maximum Thickness Plane 150
4.4.1.2 100 Percent Chord Plane 158
4.4.1.3 150 Percent Chord Plane 164
4.4.1.4 Comparisons with the 1.5:1 Elliptical Nose Body 171

4.4.2 4:1 Wedge Elliptical Nose Body 172

4.4.2.1 Maximum Thickness Plane 173
4.4.2.2 100 Percent Chord Plane 179
4.4.2.3 Comparisons with the 4:1 Elliptical Nose Body 179

4.5 Fillet Effects 185

4.5.1 Fillet #1 188
4.5.2 Fillet #2 195

4.5.2.1 43 Percent Chord Plane 195
4.5.2.2 100 Percent Chord Plane 196

4.5.3 Fillet #3 207

4.5.3.1 43 Percent Chord Plane 207
4.5.3.2 63 and 83 Percent Chord Planes 216
4.5.3.3 100 Percent Chord Plane 230
4.5.3.4 125 Percent Chord Plane 236
4.5.3.5 150 Percent Chord Plane 242

4.5.4 Comparisons Among Leading Edge Fillets 242
4.5.5 Fillet #3 and a Trailing Edge Fillet 248

4.6 Circulation and Secondary Kinetic Energy 254

5. SUMMARY 269

REFERENCES 273

APPENDIX A x-z Coordinates of Bodies 286

APPENDIX B Five-Hole Probe Data 288

VITA 641

LIST OF FIGURES

Figure		Page
1.1	The Overall Junction Vortex Flow Field [46]	2
1.2	Four Vortex System of a Cube and a Cuboid [7]	6
1.3	Four Vortex System of a Cylinder [8]	7
1.4	Menna's Measurement Regions [16]	14
1.5	Harsh's Measurement Planes [15]	16
1.6	Tree's Measurement Region [16]	17
1.7	Complete Measurement Planes [53]	19
2.1	Open Circuit, Subsonic Wind Tunnel Used in the Experimental Investigation	30
2.2	Five-Hole Pressure Probe [15]	33
2.3	Block Diagram of the Data Acquisition System [90]	35
2.4	Bodies Used in the Experimental Investigation	39
2.5	Leading Edge Fillets Used in the Experimental Investigation	42
2.6	Leading Edge Fillet #3 and the Trailing Edge Fillet	43
2.7	Coordinate System	44
2.8	Typical Mean Velocity and Flow Angles	45
3.1	Open Circuit, Subsonic, Calibration Wind Tunnel [15]	47
3.2	Yaw Pressure Coefficient for the Five-Hole Probe [15]	53
3.3	Typical Data Collection Grid	55
3.4	Measurement Planes for the 1.5:1 Elliptical Nose Body	56
3.5	Measurement Planes for the 4:1 Elliptical Nose Body	57
3.6	Measurement Planes for the 4:1 Wedge Elliptical Nose Body	58
3.7	Measurement Planes for the 1.5:1 Elliptical Nose Body with Fillet #1	59

LIST OF FIGURES (continued)

Figure		Page
3.8	Measurement Planes for the 1.5:1 Elliptical Nose Body with Fillet #2	60
3.9	Measurement Planes for the 1.5:1 Elliptical Nose Body with Fillet #3	61
3.10	Measurement Plane for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet	62
4.1	Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 1.5:1 Elliptical Nose Body	69
4.2	Enlarged View of the Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 1.5:1 Elliptical Nose Body	70
4.3	Schematic Diagram of the Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 1.5:1 Elliptical Nose Body	71
4.4	Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the Teardrop Body [15]	72
4.5	Schematic Diagram of the Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the Teardrop Body [15]	73
4.6	Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 4:1 Elliptical Nose Body	77
4.7	Enlarged View of the Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 4:1 Elliptical Nose Body	78
4.8	Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 4:1 Wedge Elliptical Nose Body	80
4.9	Enlarged View of the Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 4:1 Wedge Elliptical Nose Body	81
4.10	Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 1.5:1 Elliptical Nose Body with Fillet #3	82
4.11	Enlarged View of the Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 1.5:1 Elliptical Nose Body with Fillet #3	83
4.12	Surface Flow Visualization on the Sides of the 1.5:1 Elliptical Nose Body	85
4.13	Schematic Diagram of the Surface Flow Visualization on the Sides of the 1.5:1 Elliptical Nose Body	86

LIST OF FIGURES (continued)

Figure		Page
4.14	Surface Flow Visualization on the Sides of the 4:1 Wedge Elliptical Nose Body	87
4.15	Finite Difference Grid for the Computation of the x-Component Vorticity for an Interior Node	91
4.16	Finite Difference Grid for the Computation of the x-Component Vorticity for a Boundary Node	92
4.17	Secondary Velocity Distribution at 9 Percent Chord for the 1.5:1 Elliptical Nose Body	98
4.18	Projections of Mean Velocity Vectors onto the y-z Plane and a Plane Normal to the Body Surface	99
4.19	x-Component Vorticity Distribution at 9 Percent Chord for the 1.5:1 Elliptical Nose Body	100
4.20	U velocity Distribution at 9 Percent Chord for the 1.5:1 Elliptical Nose Body	101
4.21	Total Pressure Coefficient Distribution at 9 Percent Chord for the 1.5:1 Elliptical Nose Body	102
4.22	Static Pressure Coefficient Distribution at 9 Percent Chord for the 1.5:1 Elliptical Nose Body	103
4.23	Transformation of the Coordinate System	106
4.24	Secondary Velocity Distribution in the Orthogonal Plane at 9 Percent Chord for the 1.5:1 Elliptical Nose Body	107
4.25	s-Component Vorticity Distribution in the Orthogonal Plane at 9 Percent Chord for the 1.5:1 Elliptical Nose Body	108
4.26	U' Velocity Distribution in the Orthogonal Plane at 9 Percent Chord for the 1.5:1 Elliptical Nose Body	109
4.27	Total Pressure Coefficient Distribution in the Orthogonal Plane at 9 Percent Chord for the 1.5:1 Elliptical Nose Body	110
4.28	Static Pressure Coefficient Distribution in the Orthogonal Plane at 9 Percent Chord for the 1.5:1 Elliptical Nose Body	111
4.29	Secondary Velocity Distribution at 18 Percent Chord for the 1.5:1 Elliptical Nose Body	114

LIST OF FIGURES (continued)

Figure		Page
4.30	x-Component Vorticity Distribution at 18 Percent Chord for the 1.5:1 Elliptical Nose Body	115
4.31	U velocity Distribution at 18 Percent Chord for the 1.5:1 Elliptical Nose Body	116
4.32	Total Pressure Coefficient Distribution at 18 Percent Chord for the 1.5:1 Elliptical Nose Body	117
4.33	Static Pressure Coefficient Distribution at 18 Percent Chord for the 1.5:1 Elliptical Nose Body	118
4.34	Secondary Velocity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body	120
4.35	x-Component Vorticity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body	121
4.36	U velocity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body	122
4.37	Total Pressure Coefficient Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body	123
4.38	Static Pressure Coefficient Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body	124
4.39	Secondary Velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body	127
4.40	x-Component Vorticity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body	128
4.41	U velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body	129
4.42	Total Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body	130
4.43	Static Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body	131
4.44	Secondary Velocity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body	134
4.45	x-Component Vorticity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body	135

LIST OF FIGURES (continued)

Figure		Page
4.46	U velocity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body	136
4.47	Total Pressure Coefficient Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body	137
4.48	Static Pressure Coefficient Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body	138
4.49	Secondary Velocity Distribution at 100 Percent Chord for the Teardrop Body	141
4.50	x-Component Vorticity Distribution at 100 Percent Chord for the Teardrop Body	142
4.51	U velocity Distribution at 100 Percent Chord for the Teardrop Body	143
4.52	Total Pressure Coefficient Distribution at 100 Percent Chord for the Teardrop Body	144
4.53	Static Pressure Coefficient Distribution at 100 Percent Chord for the Teardrop Body	145
4.54	Secondary Velocity Distribution at Maximum Thickness Position for the 4:1 Elliptical Nose Body	152
4.55	Enlarged View of the Secondary Velocity Distribution at Maximum Thickness Position for the 4:1 Elliptical Nose Body	153
4.56	x-Component Vorticity Distribution at Maximum Thickness Position for the 4:1 Elliptical Nose Body	154
4.57	U velocity Distribution at Maximum Thickness Position for the 4:1 Elliptical Nose Body	155
4.58	Total Pressure Coefficient Distribution at Maximum Thickness Position for the 4:1 Elliptical Nose Body	156
4.59	Static Pressure Coefficient Distribution at Maximum Thickness Position for the 4:1 Elliptical Nose Body	157
4.60	Secondary Velocity Distribution at 100 Percent Chord for the 4:1 Elliptical Nose Body	159
4.61	x-Component Vorticity Distribution at 100 Percent Chord for the 4:1 Elliptical Nose Body	160

LIST OF FIGURES (continued)

Figure		Page
4.62	U velocity Distribution at 100 Percent Chord for the 4:1 Elliptical Nose Body	161
4.63	Total Pressure Coefficient Distribution at 100 Percent Chord for the 4:1 Elliptical Nose Body	162
4.64	Static Pressure Coefficient Distribution at 100 Percent Chord for the 4:1 Elliptical Nose Body	163
4.65	Secondary Velocity Distribution at 150 Percent Chord for the 4:1 Elliptical Nose Body	166
4.66	x-Component Vorticity Distribution at 150 Percent Chord for the 4:1 Elliptical Nose Body	167
4.67	U velocity Distribution at 150 Percent Chord for the 4:1 Elliptical Nose Body	168
4.68	Total Pressure Coefficient Distribution at 150 Percent Chord for the 4:1 Elliptical Nose Body	169
4.69	Static Pressure Coefficient Distribution at 150 Percent Chord for the 4:1 Elliptical Nose Body	170
4.70	Secondary Velocity Distribution at Maximum Thickness Position for the 4:1 Wedge Elliptical Nose Body	174
4.71	x-Component Vorticity Distribution at Maximum Thickness Position for the 4:1 Wedge Elliptical Nose Body	175
4.72	U velocity Distribution at Maximum Thickness Position for the 4:1 Wedge Elliptical Nose Body	176
4.73	Total Pressure Coefficient Distribution at Maximum Thickness Position for the 4:1 Wedge Elliptical Nose Body	177
4.74	Static Pressure Coefficient Distribution at Maximum Thickness Position for the 4:1 Wedge Elliptical Nose Body	178
4.75	Secondary Velocity Distribution at 100 Percent Chord for the 4:1 Wedge Elliptical Nose Body	180
4.76	x-Component Vorticity Distribution at 100 Percent Chord for the 4:1 Wedge Elliptical Nose Body	181
4.77	U velocity Distribution at 100 Percent Chord for the 4:1 Wedge Elliptical Nose Body	182

LIST OF FIGURES (continued)

Figure		Page
4.78	Total Pressure Coefficient Distribution at 100 Percent Chord for the 4:1 Wedge Elliptical Nose Body	183
4.79	Static Pressure Coefficient Distribution at 100 Percent Chord for the 4:1 Wedge Elliptical Nose Body	184
4.80	Secondary Velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #1	190
4.81	x-Component Vorticity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #1	191
4.82	U velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #1	192
4.83	Total Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #1	193
4.84	Static Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #1	194
4.85	Secondary Velocity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2	197
4.86	x-Component Vorticity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2	198
4.87	U velocity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2	199
4.88	Total Pressure Coefficient Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2	200
4.89	Static Pressure Coefficient Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2	201
4.90	Secondary Velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2	202
4.91	x-Component Vorticity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2	203
4.92	U velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2	204
4.93	Total Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2	205

LIST OF FIGURES (continued)

Figure		Page
4.94	Static Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2	206
4.95	Secondary Velocity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	210
4.96	x-Component Vorticity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	211
4.97	x-Component Vorticity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 (without Floor Vorticity Values)	212
4.98	U velocity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	213
4.99	Total Pressure Coefficient Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	214
4.100	Static Pressure Coefficient Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	215
4.101	Secondary Velocity Distribution at 63 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	218
4.102	x-Component Vorticity Distribution at 63 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	219
4.103	x-Component Vorticity Distribution at 63 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 (without Floor Vorticity Values)	220
4.104	U velocity Distribution at 63 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	221
4.105	Total Pressure Coefficient Distribution at 63 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	222
4.106	Static Pressure Coefficient Distribution at 63 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	223
4.107	Secondary Velocity Distribution at 83 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	224
4.108	x-Component Vorticity Distribution at 83 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	225

LIST OF FIGURES (continued)

Figure		Page
4.109	x-Component Vorticity Distribution at 83 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 (without Floor Vorticity Values)	226
4.110	U velocity Distribution at 83 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	227
4.111	Total Pressure Coefficient Distribution at 83 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	228
4.112	Static Pressure Coefficient Distribution at 83 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	229
4.113	Secondary Velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	231
4.114	x-Component Vorticity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	232
4.115	U velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	233
4.116	Total Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	234
4.117	Static Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	235
4.118	Secondary Velocity Distribution at 125 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	237
4.119	x-Component Vorticity Distribution at 125 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	238
4.120	U velocity Distribution at 125 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	239
4.121	Total Pressure Coefficient Distribution at 125 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	240
4.122	Static Pressure Coefficient Distribution at 125 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	241
4.123	Secondary Velocity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	243

LIST OF FIGURES (continued)

Figure		Page
4.124	x-Component Vorticity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	244
4.125	U velocity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	245
4.126	Total Pressure Coefficient Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	246
4.127	Static Pressure Coefficient Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3	247
4.128	Secondary Velocity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet	249
4.129	x-Component Vorticity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet	250
4.130	U Velocity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet	251
4.131	Total Pressure Coefficient Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet	252
4.132	Static Pressure Coefficient Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet	253
4.133	Area of Integration for Calculations of Circulation and Secondary Kinetic Energy at the 100 Percent Chord Plane	257
4.134	V and W Velocity Gradients for the 1.5:1 Elliptical Nose Body with Fillet #1 and Fillet #3 at z = -51 mm	260
4.135	x-Component Vorticity for the 1.5:1 Elliptical Nose Body with Fillet #1 and Fillet #3 at z = -51 mm	261
4.136	Area of Integration for Calculations of Circulation and Secondary Kinetic Energy at the Maximum Thickness, 43, and 150 Percent Chord Planes	263
4.137	Area of Integration for Calculation of Circulation of the Primary Horseshoe Vortex for the 1.5:1 Elliptical Nose Body	266
4.138	Circulation of the Primary Horseshoe Vortex for the 1.5:1 Elliptical Nose Body	267

LIST OF TABLES

Table		Page
2.1	Nominal Laboratory and Wind Tunnel Conditions for the Experiment [15] ..	32
2.2	Manufacturer's Specifications for the Digital Manometers	36
4.1	Circulation and Secondary Kinetic Energy at the 100 Percent Chord Plane...	258
4.2	Circulation and Secondary Kinetic Energy at the Maximum Thickness, 43 Percent Chord, and 150 Percent Chord Planes	264
A.1	x-z Coordinates of the 1.5:1 Elliptical Nose, 4:1 Elliptical Nose, and 4:1 Wedge Elliptical Nose Bodies.....	287
B.1	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -203 mm)	289
B.2	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -178 mm)	290
B.3	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -152 mm)	291
B.4	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -127 mm)	292
B.5	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -114 mm)	293
B.6	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -108 mm)	294
B.7	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -102 mm)	295
B.8	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -95 mm).....	296
B.9	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -89 mm).....	297
B.10	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -83 mm).....	298
B.11	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -76 mm).....	299
B.12	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -70 mm).....	300

LIST OF TABLES (continued)

Table		Page
B.13	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -64 mm)	301
B.14	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -57 mm)	302
B.15	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -51 mm)	303
B.16	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (27 mm, -44 mm)	304
B.17	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (-27 mm, -174 mm)	305
B.18	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (-18 mm, -151 mm)	306
B.19	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (-9 mm, -127 mm)	307
B.20	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (-5 mm, -115 mm)	308
B.21	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (0 mm, -103 mm)	309
B.22	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (2 mm, -97 mm)	310
B.23	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (4 mm, -91 mm)	311
B.24	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (7 mm, -85 mm)	312
B.25	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (9 mm, -79 mm)	313
B.26	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (11 mm, -73 mm)	314
B.27	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (13 mm, -67 mm)	315
B.28	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (16 mm, -61 mm)	316

LIST OF TABLES (continued)

Table		Page
B.29	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (18 mm, -56 mm)	317
B.30	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (20 mm, -50 mm)	318
B.31	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (22 mm, -44 mm)	319
B.32	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -203 mm)	320
B.33	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -178 mm)	321
B.34	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -152 mm)	322
B.35	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -127 mm)	323
B.36	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -114 mm)	324
B.37	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -108 mm)	325
B.38	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -102 mm)	326
B.39	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -95 mm)	327
B.40	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -89 mm)	328
B.41	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -83 mm)	329
B.42	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -76 mm)	330
B.43	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -70 mm)	331
B.44	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -64 mm)	332

LIST OF TABLES (continued)

Table		Page
B.45	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -57 mm)	333
B.46	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -51 mm)	334
B.47	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (53 mm, -44 mm)	335
B.48	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -203 mm)	336
B.49	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -178 mm)	337
B.50	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -152 mm)	338
B.51	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -127 mm)	339
B.52	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -114 mm)	340
B.53	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -108 mm)	341
B.54	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -102 mm)	342
B.55	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -95 mm)	343
B.56	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -89 mm)	344
B.57	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -83 mm)	345
B.58	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -76 mm)	346
B.59	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -70 mm)	347
B.60	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -64 mm)	348

LIST OF TABLES (continued)

Table		Page
B.61	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -57 mm)	349
B.62	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -51 mm)	350
B.63	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (130 mm, -44 mm)	351
B.64	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -203 mm)	352
B.65	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -178 mm)	353
B.66	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -152 mm)	354
B.67	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -127 mm)	355
B.68	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -114 mm)	356
B.69	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -102 mm)	357
B.70	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -95 mm)	358
B.71	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -89 mm)	359
B.72	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -83 mm)	360
B.73	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -76 mm)	361
B.74	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -70 mm)	362
B.75	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -64 mm)	363
B.76	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -57 mm)	364

LIST OF TABLES (continued)

Table		Page
B.77	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -51 mm)	365
B.78	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -44 mm)	366
B.79	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -38 mm)	367
B.80	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -32 mm)	368
B.81	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -25 mm)	369
B.82	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (302 mm, -19 mm)	370
B.83	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -203 mm)	371
B.84	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -178 mm)	372
B.85	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -152 mm)	373
B.86	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -127 mm)	374
B.87	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -114 mm)	375
B.88	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -102 mm)	376
B.89	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -95 mm)	377
B.90	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -89 mm)	378
B.91	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -83 mm)	379
B.92	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -76 mm)	380

LIST OF TABLES (continued)

Table		Page
B.93	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -70 mm)	381
B.94	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -64 mm)	382
B.95	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -57 mm)	383
B.96	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -51 mm)	384
B.97	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -44 mm)	385
B.98	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -38 mm)	386
B.99	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -32 mm)	387
B.100	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -25 mm)	388
B.101	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, -13 mm)	389
B.102	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z) = (453 mm, 0 mm)	390
B.103	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -203 mm)	391
B.104	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -178 mm)	392
B.105	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -152 mm)	393
B.106	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -127 mm)	394
B.107	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -114 mm)	395
B.108	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -108 mm)	396

LIST OF TABLES (continued)

Table		Page
B.109	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -102 mm)	397
B.110	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -95 mm)	398
B.111	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -89 mm)	399
B.112	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -83 mm)	400
B.113	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -76 mm)	401
B.114	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -70 mm)	402
B.115	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -64 mm)	403
B.116	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -57 mm)	404
B.117	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -51 mm)	405
B.118	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (142 mm, -44 mm)	406
B.119	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -203 mm)	407
B.120	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -178 mm)	408
B.121	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -152 mm)	409
B.122	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -127 mm)	410
B.123	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -102 mm)	411
B.124	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -89 mm)	412

LIST OF TABLES (continued)

Table		Page
B.125	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -76 mm)	413
B.126	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -70 mm)	414
B.127	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -64 mm)	415
B.128	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -57 mm)	416
B.129	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -51 mm)	417
B.130	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -44 mm)	418
B.131	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -38 mm)	419
B.132	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -32 mm)	420
B.133	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -25 mm)	421
B.134	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -19 mm)	422
B.135	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (391 mm, -13 mm)	423
B.136	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -203 mm)	424
B.137	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -178 mm)	425
B.138	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -152 mm)	426
B.139	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -127 mm)	427
B.140	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -114 mm)	428

LIST OF TABLES (continued)

Table		Page
B.141	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -102 mm)	429
B.142	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -95 mm)	430
B.143	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -89 mm)	431
B.144	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -83 mm)	432
B.145	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -76 mm)	433
B.146	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -70 mm)	434
B.147	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -64 mm)	435
B.148	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -57 mm)	436
B.149	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -51 mm)	437
B.150	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -44 mm)	438
B.151	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -38 mm)	439
B.152	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -32 mm)	440
B.153	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -25 mm)	441
B.154	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -19 mm)	442
B.155	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, -13 mm)	443
B.156	Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z) = (587 mm, 0 mm)	444

LIST OF TABLES (continued)

Table		Page
B.157	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -203 mm)	445
B.158	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -178 mm)	446
B.159	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -152 mm)	447
B.160	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -127 mm)	448
B.161	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -114 mm)	449
B.162	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -108 mm)	450
B.163	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -102 mm)	451
B.164	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -95 mm)	452
B.165	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -89 mm)	453
B.166	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -83 mm)	454
B.167	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -76 mm)	455
B.168	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -70 mm)	456
B.169	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -64 mm)	457
B.170	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -57 mm)	458
B.171	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -51 mm)	459
B.172	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (142 mm, -44 mm)	460

LIST OF TABLES (continued)

Table		Page
B.173	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -203 mm)	461
B.174	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -178 mm)	462
B.175	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -152 mm)	463
B.176	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -127 mm)	464
B.177	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -102 mm)	465
B.178	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -89 mm)	466
B.179	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -76 mm)	467
B.180	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -70 mm)	468
B.181	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -64 mm)	469
B.182	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -57 mm)	470
B.183	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -51 mm)	471
B.184	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -44 mm)	472
B.185	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -38 mm)	473
B.186	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -32 mm)	474
B.187	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -25 mm)	475
B.188	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -19 mm)	476

LIST OF TABLES (continued)

Table		Page
B.189	Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z) = (391 mm, -13 mm)	477
B.190	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -203 mm)	478
B.191	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -178 mm)	479
B.192	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -152 mm)	480
B.193	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -127 mm)	481
B.194	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -102 mm)	482
B.195	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -89 mm)	483
B.196	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -76 mm)	484
B.197	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -70 mm)	485
B.198	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -64 mm)	486
B.199	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -57 mm)	487
B.200	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -51 mm)	488
B.201	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -44 mm)	489
B.202	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -38 mm)	490
B.203	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -32 mm)	491
B.204	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -25 mm)	492

LIST OF TABLES (continued)

Table		Page
B.205	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -19 mm)	493
B.206	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z) = (302 mm, -13 mm)	494
B.207	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (130 mm, -203 mm)	495
B.208	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (130 mm, -178 mm)	496
B.209	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (130 mm, -152 mm)	497
B.210	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (130 mm, -127 mm)	498
B.211	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (130 mm, -102 mm)	499
B.212	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (130 mm, -89 mm)	500
B.213	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (130 mm, -76 mm)	501
B.214	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (130 mm, -70 mm)	502
B.215	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (130 mm, -64 mm)	503
B.216	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (130 mm, -57 mm)	504
B.217	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (130 mm, -51 mm)	505
B.218	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (130 mm, -44 mm)	506
B.219	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (130 mm, -38 mm)	507
B.220	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -203 mm)	508

LIST OF TABLES (continued)

Table		Page
B.221	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -178 mm)	509
B.222	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -152 mm)	510
B.223	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -127 mm)	511
B.224	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -102 mm)	512
B.225	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -89 mm)	513
B.226	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -76 mm)	514
B.227	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -70 mm)	515
B.228	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -64 mm)	516
B.229	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -57 mm)	517
B.230	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -51 mm)	518
B.231	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -44 mm)	519
B.232	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -38 mm)	520
B.233	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -32 mm)	521
B.234	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -25 mm)	522
B.235	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -19 mm)	523
B.236	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z) = (302 mm, -13 mm)	524

LIST OF TABLES (continued)

Table		Page
B.237	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (130 mm, -203 mm)	525
B.238	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (130 mm, -178 mm)	526
B.239	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (130 mm, -152 mm)	527
B.240	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (130 mm, -127 mm)	528
B.241	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (130 mm, -102 mm)	529
B.242	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (130 mm, -89 mm)	530
B.243	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (130 mm, -76 mm)	531
B.244	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (130 mm, -70 mm)	532
B.245	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (130 mm, -64 mm)	533
B.246	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (130 mm, -57 mm)	534
B.247	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (130 mm, -51 mm)	535
B.248	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (130 mm, -44 mm)	536
B.249	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (130 mm, -38 mm)	537
B.250	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (190 mm, -203 mm)	538
B.251	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (190 mm, -178 mm)	539
B.252	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (190 mm, -152 mm)	540

LIST OF TABLES (continued)

Table		Page
B.253	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (190 mm, -127 mm)	541
B.254	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (190 mm, -102 mm)	542
B.255	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (190 mm, -89 mm)	543
B.256	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (190 mm, -76 mm)	544
B.257	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (190 mm, -70 mm)	545
B.258	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (190 mm, -64 mm)	546
B.259	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (190 mm, -57 mm)	547
B.260	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (190 mm, -51 mm)	548
B.261	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (190 mm, -44 mm)	549
B.262	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (190 mm, -38 mm)	550
B.263	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (190 mm, -32 mm)	551
B.264	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (190 mm, -29 mm)	552
B.265	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -203 mm)	553
B.266	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -178 mm)	554
B.267	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -152 mm)	555
B.268	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -127 mm)	556

LIST OF TABLES (continued)

Table		Page
B.269	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -102 mm)	557
B.270	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -89 mm)	558
B.271	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -76 mm)	559
B.272	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -70 mm)	560
B.273	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -64 mm)	561
B.274	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -57 mm)	562
B.275	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -51 mm)	563
B.276	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -44 mm)	564
B.277	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -38 mm)	565
B.278	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -32 mm)	566
B.279	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -25 mm)	567
B.280	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (251 mm, -19 mm)	568
B.281	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -203 mm)	569
B.282	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -178 mm)	570
B.283	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -152 mm)	571
B.284	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -127 mm)	572

LIST OF TABLES (continued)

Table		Page
B.285	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -102 mm)	573
B.286	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -89 mm)	574
B.287	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -76 mm)	575
B.288	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -70 mm)	576
B.289	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -64 mm)	577
B.290	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -57 mm)	578
B.291	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -51 mm)	579
B.292	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -44 mm)	580
B.293	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -38 mm)	581
B.294	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -32 mm)	582
B.295	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -25 mm)	583
B.296	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -19 mm)	584
B.297	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (302 mm, -13 mm)	585
B.298	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -203 mm)	586
B.299	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -178 mm)	587
B.300	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -152 mm)	588

LIST OF TABLES (continued)

Table		Page
B.301	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -127 mm)	589
B.302	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -102 mm)	590
B.303	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -89 mm)	591
B.304	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -76 mm)	592
B.305	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -70 mm)	593
B.306	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -64 mm)	594
B.307	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -57 mm)	595
B.308	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -51 mm)	596
B.309	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -44 mm)	597
B.310	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -38 mm)	598
B.311	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -32 mm)	599
B.312	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -25 mm)	600
B.313	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -19 mm)	601
B.314	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, -13 mm)	602
B.315	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (378 mm, 0 mm)	603
B.316	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -203 mm)	604

LIST OF TABLES (continued)

Table		Page
B.317	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -178 mm)	605
B.318	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -152 mm)	606
B.319	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -127 mm)	607
B.320	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -102 mm)	608
B.321	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -89 mm)	609
B.322	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -83 mm)	610
B.323	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -76 mm)	611
B.324	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -70 mm)	612
B.325	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -64 mm)	613
B.326	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -57 mm)	614
B.327	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -51 mm)	615
B.328	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -44 mm)	616
B.329	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -38 mm)	617
B.330	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -32 mm)	618
B.331	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -25 mm)	619
B.332	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -19 mm)	620

LIST OF TABLES (continued)

Table		Page
B.333	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -13 mm)	621
B.334	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, -6 mm)	622
B.335	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z) = (453 mm, 0 mm)	623
B.336	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -203 mm)	624
B.337	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -178 mm)	625
B.338	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -152 mm)	626
B.339	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -127 mm)	627
B.340	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -102 mm)	628
B.341	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -89 mm)	629
B.342	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -76 mm)	630
B.343	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -70 mm)	631
B.344	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -64 mm)	632
B.345	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -57 mm)	633
B.346	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -51 mm)	634
B.347	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -44 mm)	635
B.348	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -38 mm)	636

LIST OF TABLES (continued)

Table		Page
B.349	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -32 mm)	637
B.350	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -25 mm)	638
B.351	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, -13 mm)	639
B.352	Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z) = (453 mm, 0 mm)	640

LIST OF SYMBOLS

A	Area
$B_1, B_2, \ldots B_{10}$	Ten calibration coefficients estimated using the method of least squares
c	Chord length
C_P	Pressure coefficient
$C_{P,S}$	Static pressure coefficient
$C_{P,T}$	Total pressure coefficient
d	Maximum thickness of a body
D_P	Diameter of the probe
f_1	Pitch pressure coefficient for the five-hole probe, $(P_4 - P_5)/(P_1 - P_2)$
f_2	Dynamic pressure coefficient for the five-hole probe, $Q/(P_1 - P_2)$
f_3	Total pressure coefficient for the five-hole probe, $(P_1 - P_T)/Q$
i,j	Indices denoting the i th and j th elements in an ordered sequence
L	Length
n	(1) An index corresponding to the largest i, or (2) the total number of observations, or (3) the coordinate normal to the body surface
P_K	Pressure indicated by Kiel probe
P_S	Static pressure
P_T	Total pressure, $P_S + \rho \bar{V}^2/2$
$P_{T,*}$	Total pressure at the throat
P_∞	Barometric pressure
$P_1, P_2, \ldots P_5$	Pressures indicated at the various ports on five-hole pressure probe
Q	Dynamic pressure, $\rho \bar{V}^2/2$
Q_*	Dynamic pressure at the throat
R	(1) The gas constant for air, or (2) a general result calculated from k experimental observations

Re	Reynolds number, $\rho \bar{V} L / \mu$
Re_P	Reynolds number based on the probe diameter, $\rho \bar{V} D_P / \mu$
$r_{x_i x_j}$	Estimated correlation coefficient between the i th and j th observations
s	The streamwise coordinate
T_∞	Ambient temperature
U	Longitudinal component of the mean velocity vector
U'	s-component of the mean velocity vector
V	Vertical component of the mean velocity vector
v	Fluctuating component of V
$\bar{V}$	Speed
$\bar{V}_*$	Speed at the throat
W	Transverse component of the mean velocity vector
w	Fluctuating component of W
W'	n-component of the mean velocity vector
w	Uncertainty
w_R	Uncertainty in the result R
x	The longitudinal coordinate
X_i	A general experimental observation
y	The vertical coordinate
y_i	The i th vertical position
z	The transverse coordinate

Greek Symbols

α	Pitch angle
α_o	Pitch angle with respect to the five-hole probe at the null position
β	Yaw angle
β_o	Yaw angle relative to the traversing mechanism at the null position
β_o^*	Yaw angle relative to the traversing mechanism fed to the microcomputer at the initial y position as an estimate of the null position
$\beta_o(y_i)$	Yaw angle relative to the traversing mechanism at the null position and at the i th y location in a traverse
β_{Ref}	Reference Yaw angle indicated on the traversing mechanism
δ	Boundary layer thickness
Γ	Circulation
μ	Dynamic viscosity
ν	Kinematic viscosity, μ / ρ
ρ	Density
Ω	Mean vorticity
Ω_x	Longitudinal or x-component of the mean vorticity
Ω_y	Vertical or y-component of the mean vorticity
Ω_z	Transverse or z-component of the mean vorticity

1. INTRODUCTION

The objective of this experimental study was to investigate effective methods of influencing or controlling an incompressible, turbulent junction vortex. The turbulent junction vortex flow was generated by placing a wing-like body normal to a flat floor of a wind tunnel. When a boundary layer encounters such a body, a total pressure gradient is produced along the body leading edge. This pressure gradient causes a three dimensional separation (or multiple separations and reattachments) in a neighborhood upstream of the body. The separated boundary layer rolls up downstream of the separation line to form a system of vortices.

The more traditional model of this flow configuration for such lower speed flows, based mainly on surface flow visualizations, is a system of four separate vortices in the region just forward of the body. More recent extensive measurements usually show a single dominant vortex, with a significantly smaller vortex in the very corner of the floor-body junction. In the upstream region, other vortices have not been experimentally confirmed. Such experiments suggest the flow be described as a vortex flow with a junction, horseshoe, or necklace vortex, consistent with the presence of a single dominant vortex. Since, in the case of bodies with larger leading edge radii, there is experimental evidence of at least one additional vortex structure in the leading edge region, and often multiple vortices seen in the downstream flow, the flow is also described as a vortex system or system of vortices.

This system of vortices wraps around the base of body forming a horseshoe-shaped vortex in the corner between the body and the plate. The horseshoe vortex persists downstream and affects the body wake flow. A typical junction flow is illustrated in Figure 1.1. This type of flow is encountered in many areas of fluids engineering including

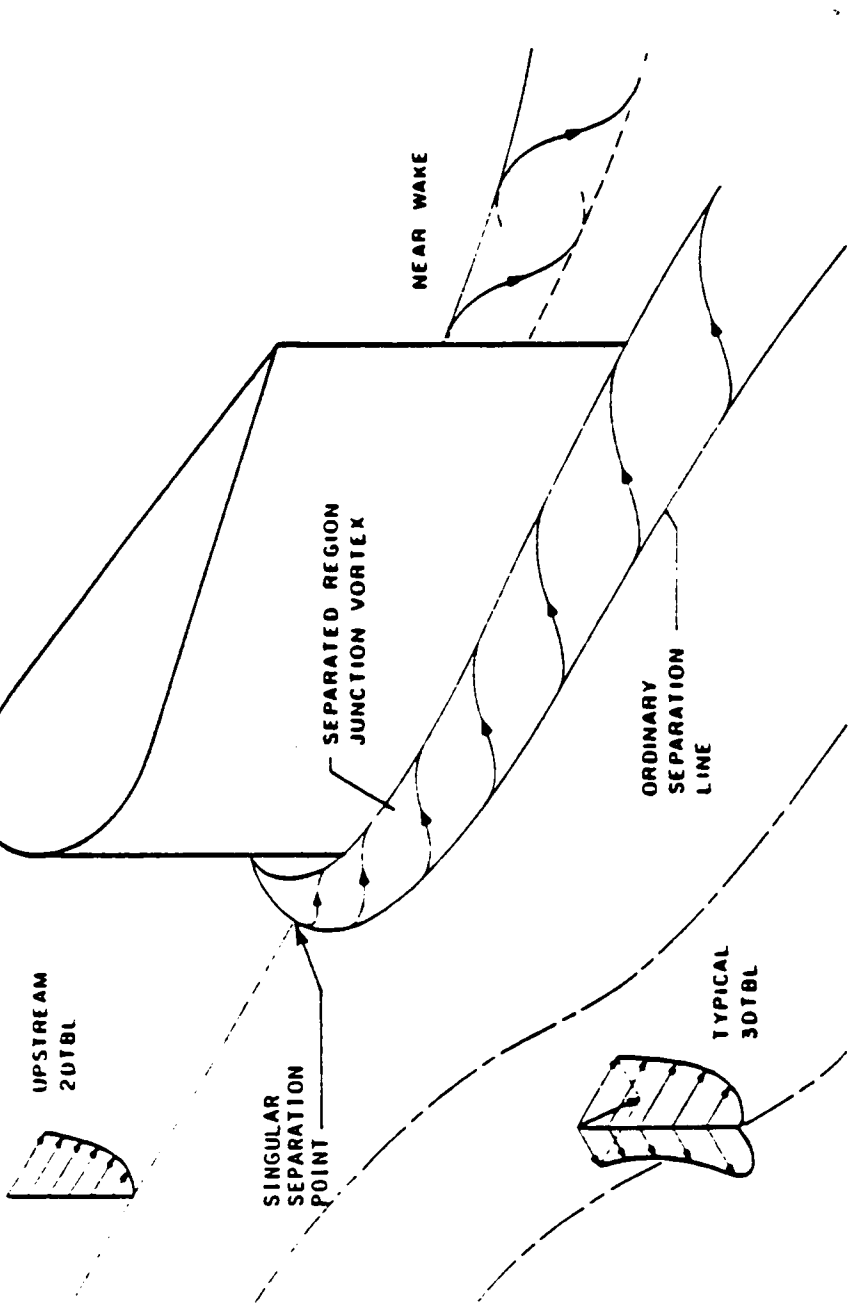


Fig. 1.1 The Overall Junction Vortex Flow Field [46]

the wing / fuselage junction of aircraft, the blade / endwall junction of turbomachinery, the bridge pier / river bed junction, the building / ground junction in the presence of the atmospheric boundary layer, and the sail / hull junction of submersibles.

The junction flow can also be characterized by the presence of streamwise vorticity, which is generated by the skewing of transverse vorticity originating in the upstream or approaching boundary layer. The junction flow is one of the flow configurations in which streamwise vorticity is a dominant feature.

Turbulent flows with streamwise vorticity have drawn much attention in recent years. The generation of skew-induced streamwise vorticity (Prandtl's first kind of secondary flow) is an essentially inviscid process, given an initial shear layer with transverse vorticity. Hence, the skew-induced streamwise vorticity can be found in both laminar and turbulent flows. In turbulent flows, streamwise vorticity can also be generated by the Reynolds stresses. This is Prandtl's second kind of secondary flow (referred to as stress-induced secondary flow) and can be found, for example, in straight rectangular ducts. Stress-induced streamwise vorticity is generally much weaker than skew-induced streamwise vorticity.

Since understanding the mechanisms involved in a junction flow is essential to investigating methods for controlling such a flow, a review of studies involving junction flows is given in the following section. Although the present study investigated a turbulent junction vortex flow, both laminar and turbulent flow studies are reviewed. Studies of secondary flows in turbomachinery and streamwise vorticity embedded in a turbulent boundary layer are also included to provide a broader review for flows with skew-induced streamwise vorticity.

1.1 Literature Review

1.1.1 Junction Flows

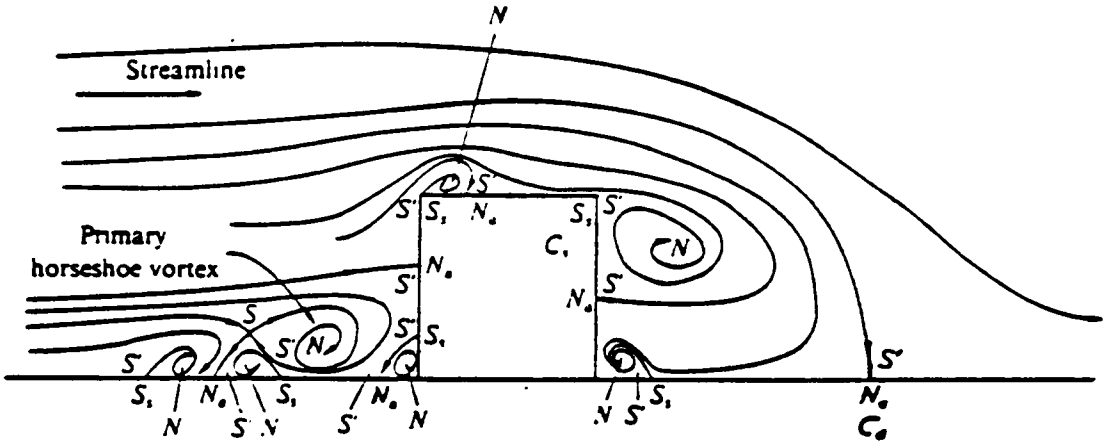
The junction flow which exists in a corner formed by an obstacle and a flat plate has drawn a special interest because the adverse pressure gradient upstream of the obstacle causes a three-dimensional separation which results in a very complicated flow field. A large number of experimental studies of the low-speed, three-dimensional junction flow has been reported. Some of the recent experimental studies are reviewed in Section 1.1.1.1. Numerical approaches to junction flows have been sparse in the past because the horseshoe vortex, which is the main feature of the junction flow, cannot be predicted by either potential theory or the boundary layer approximation. The only feasible approach is to use the Navier-Stokes equations. Navier-Stokes solutions of junction flows have not been attempted until recently due to insufficient computer memory capability. Some recent numerical studies are reviewed in Section 1.1.1.2.

A systematic and long term project to document the junction flow field around a thick streamlined cylinder was begun in the early 1980's at the Virginia Polytechnic Institute and State University. The objective of this work was to create a high quality, fully documented, unified, comprehensive and self-consistent data base for a low speed, turbulent, junction vortex flow that could be used both as a standard test case in evaluating the predictive capabilities of computer codes, and as a source of information on the behavior of such a flow for a better physical understanding of the overall and detailed flow processes involved to assist in the modelling of such flows. The work at the Virginia Polytechnic Institute and State University is summarized in Section 1.1.1.3.

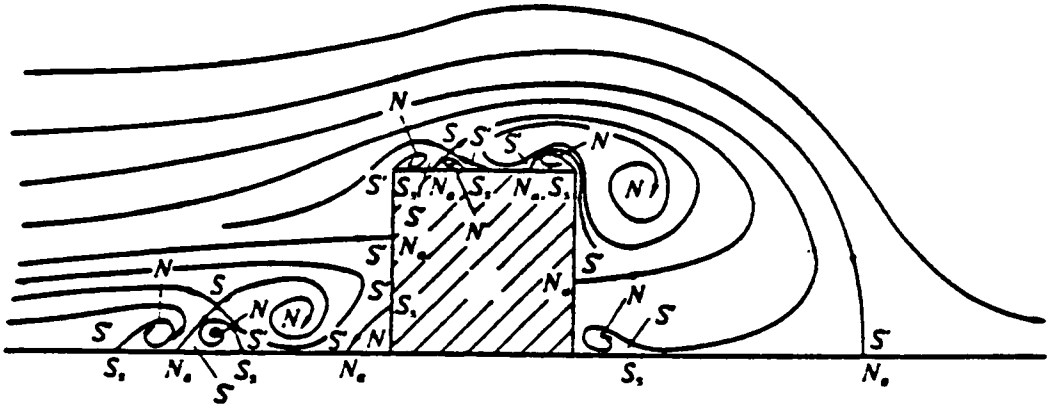
1.1.1.1 Experimental Work

The qualitative features of a junction flow were studied extensively, mostly through the use of flow visualization [1-6] in the 1960's. For both laminar and turbulent low speed flows, the studies show that the horseshoe vortex system is the dominating feature of this flow configuration.

The vortex structures in the plane of symmetry have been investigated by several groups. Hunt, et al. [7] have proposed a plane of symmetry flow field model for the turbulent junction vortex region as shown in Fig. 1.2. The model for the floor flow pattern was based on the application of kinematical principles and theorems in interpreting surface flow visualization results from surface mounted cubes and cuboids in a turbulent boundary layer. These same principles were also applied in constructing a model of the plane of symmetry velocity field. A similar flow model for the floor or surface flow for the plane of symmetry velocity field has been presented by Baker [8] as shown in Fig. 1.3. Baker performed oil-film visualization experiments of surface mounted cylinders for a wide range of Reynolds numbers ($4 \times 10^3 < Re_D < 9 \times 10^4$). The floor flow model and the symmetry plane velocity field model of Hunt, et al. [7] and Baker [8] are essentially identical. The floor flow model consists of a pair of separation lines and a pair of reattachment lines. The symmetry plane velocity field model is consistent with the floor flow model. A larger horseshoe vortex dominates the flow, with a pair of smaller counter-rotating vortices upstream of the larger primary vortex, and a smaller corner vortex at the body-floor junction. This four vortex system is also presented by Ishii and Honami [9] based on smoke wire visualization, and Abid and Schmitt [10] based on LDV measurements and oil flow visualization. Pierce, et al. [11] reported a single vortex pair, with a large dominant upstream vortex and a tightly wound counter-rotating corner vortex

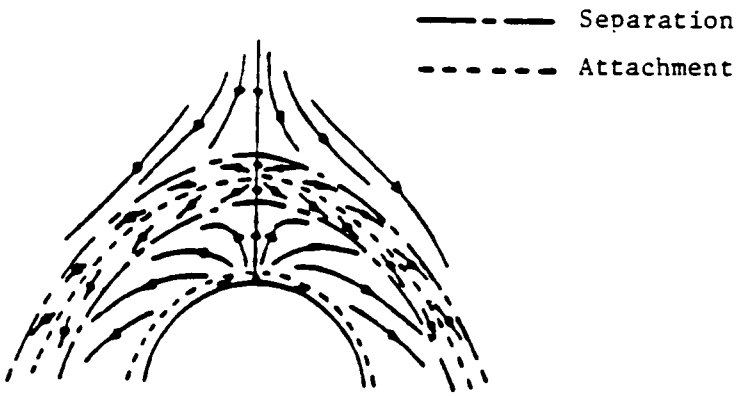


(a) Cube

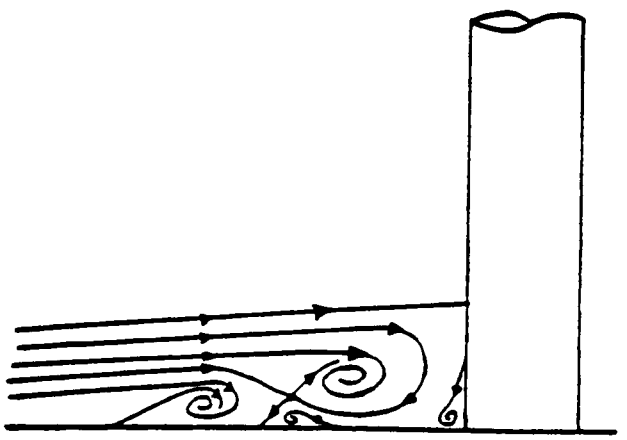


(b) Cuboid

Fig. 1.2 Four Vortex System of a Cube and a Cuboid [7]



(a) Surface Streamlines



(b) Flow Pattern Upstream of the Cylinder

Fig. 1.3 Four Vortex System of a Cylinder [8]

based on their extensive five-hole probe measurements around a streamlined cylinder and flow visualization. This single vortex pair structure was confirmed by Pierce and Tree [12] based on their LDV measurements. Eckerle and Langston [13] reported five-hole probe measurements for a larger circular cylinder and also report a single vortex pair. Pierce and Tree [12] surveyed the above mentioned studies of low speed turbulent junction vortex flows and found the number of vortex structures is body Reynolds number dependent, with the number of vortices increasing as the body Reynolds number increases.

Not many detailed flow measurements in the upstream symmetry plane were made until the late 1970's. One of the main reasons is the difficulty of making accurate measurements in a three-dimensional separation region upstream of an obstacle. Extensive work has been done at the Virginia Polytechnic Institute and State University by Menna [14] using hot-film anemometers, by Harsh [15] using a five-hole pressure probe, and by Tree [16] using a LDV in a three-dimensional separation region upstream of a streamlined cylinder, as well as in a three-dimensional turbulent boundary layer flow well upstream and around a streamlined cylinder. These studies will be reviewed in detail in Section 1.1.1.3.

Hasan, et al. [17] measured wall pressure fluctuations for their spectral content and the data indicated that the effect of the adverse pressure gradient was to increase the low frequency content of the wall pressure fluctuations and to decrease the high frequency content. Tree [16] made extensive LDV measurements in a region upstream of a streamlined cylinder and found bimodal probability density distributions (histograms) of velocity fluctuations. Devenport and Simpson [18] later confirmed the existence of these bimodal histograms.

Belik [19] investigated the position of the primary separation line upstream of the cylinder on a flat plate and concluded that for both laminar and turbulent flow the separation region could be characterized by a single similarity number, the Reynolds number based on

the boundary layer thickness. Speri [20], Chu and Young [21], and Young [22] studied a Joukowski profile wing on a flat plate. They made flow visualization studies at zero and 9.5 degrees of incidence and concluded that the patterns (indicating whether one or more vortices developed) were functions of Reynolds number.

Despite a large number of experimental studies involving the junction flow, comprehensive and detailed work in and around the junction vortex has been sparse. Moore and Forlini [23] and Hazarika, et al. [24] made mean velocity measurements for the horseshoe vortex around an obstacle. Moore and Forlini used a Rankine half-body to generate secondary flows and measurements were made in cross-sectional planes (referred to as transverse planes hereafter) at two streamwise stations using a five-hole probe. Hazarika, et al. surveyed the flow field around a NACA 65-015 profile wing at six streamwise stations. The static and total pressure measurements were made using a static and a total pressure probe, and the mean velocity measurements were made using a inclined single sensor hot-wire probe. They reported a horseshoe vortex and a counter-rotating corner vortex formed in the region between the corner and the horseshoe vortex, both originating at the leading edge. They also reported a co-rotating vortex with respect to the horseshoe vortex formed in the immediate vicinity of the corner near the trailing edge. They interpreted this co-rotating corner vortex as a vortex induced by Reynolds stresses.

Detailed mean velocity and turbulence measurements were made in transverse planes at a number of streamwise stations by Shabaka [25], (see also Shabaka and Bradshaw [26]), McMahon, et al. [27,28], Kubendran, et al. [29], Hsing and Teng [30], and Dickinson [31-33]. Shabaka and Bradshaw noted that mean velocity profiles taken throughout the vortex followed the universal law of the wall through the first 10-20% of the shear layer thickness. McMahon, et al. stated that the secondary flows transported the mean momentum and turbulence to cause profiles considerably different from those for a

two-dimensional boundary layer. Dickinson [32] made two-dimensional LDV mean velocity measurements in the separated region upstream of the leading edge of a NACA 0020 wing with a 1.5:1 elliptical nose. Time dependent oil-film and oil-dot visualizations were also made. Dickinson [33] made flow visualizations, pressure measurements on the flat plate, and three-dimensional mean and fluctuating velocity measurements around and in the wake of a NACA 0020 wing and a NACA 0020 wing with a 1.5:1 elliptical nose. He found a primary horseshoe vortex and a small counter-rotating vortex in the corner of the junction. He also reported that a blunter nose generated a stronger secondary flow.

Nakayama and Rahai [34] made mean velocity and turbulence measurements of turbulent flow behind a thin flat plate mounted normal to a larger flat plate. The essential difference between this flow and that behind a wing on a body is that, in the former, the horseshoe vortex is absent and the secondary flow is represented by a pair of weak counter-rotating vortices downstream of each corner, resulting in a total of four vortices. They noted that the general trend of the Reynolds stresses distributions was that they all decreased near the centerplane. Ozcan and Olcmen [35] reported measurements in the turbulent shear layer behind a wing that was mounted on a flat plate at 30 degrees of angle of attack. They made skin friction, wall static pressure, two mean velocity measurements, and flow visualizations on the flat plate. A tornado vortex, which rises vertically from the flat plate behind the wing and becomes a longitudinal vortex, and a tip vortex were found to be deflected as they move downstream causing irregular S-shaped streamwise velocity profiles in the wake.

1.1.1.2 Numerical work

Gorski, et al. [36] calculated turbulent flows in the corner region of a wing-body junction with a numerical technique developed for the solution of the steady Navier-Stokes equations using a space marching algorithm to investigate predictability with an eddy viscosity model and a κ-ε model. They also compared two different boundary conditions at a wall, the no-slip boundary condition and a law of the wall boundary condition. Since the calculations were started downstream of the wing leading edge to avoid complexities, they were not capable of predicting the development of any horseshoe vortex at the leading edge. Shabaka's experimental data [25] were used as the initial conditions. Since experimental measurements were not taken very near the wall, interpolation was required to define the secondary velocities on the initial plane of the computational grid.

Numerical simulations of the flow in the wing leading edge area, including the separated region, have been conducted by several investigators. Smith and Gajjar [37] applied triple-deck theory to linearize solutions in the three-dimensional laminar flow past a junction formed by a thin two- or three-dimensional wing protruding normally from a flat body surface with or without sweep. Qualitative comparisons with experimental data were made. Although experiments which examined bluff wing-body configurations were used for comparisons, the agreement was generally good qualitatively.

Kaul, et al. [38] solved the incompressible laminar flow around a cylinder-end wall junction by solving the incompressible Navier-Stokes equations in three dimensions. The equations were cast in generalized coordinates and the artificial compressibility concept was used to solve the system of equations as a hyperbolic system to yield a steady state solution by marching in time. The results show a saddle point of separation in front of the cylinder and a horseshoe vortex wrapping around the cylinder. The results also show another vortex

formed in the symmetry plane between the horseshoe vortex and the cylinder. This vortex wraps around the cylinder and spirals upward to form a pair of vortical flow filaments normal to the end wall behind the cylinder.

Briley and McDonald [39] solved the incompressible Navier-Stokes equations for a laminar horseshoe vortex flow created by the interaction of a boundary layer on a flat surface and an elliptical strut at low Mach number. The calculations were carried out on a coarse mesh, extending over a small region around the leading edge. Briley, et al. [40] continued their work on the numerical method for the three-dimensional Navier-Stokes equations for a steady laminar horseshoe vortex flow, using a time-iterative approach. No comparison with experimental measurements was made. Briley and McDonald [41] also computed turbulent flow cases for both unswept and 45 degree swept elliptical leading edges mounted normal to a flat plate.

Sung, et al. [42], Sung [43], and Sung and Yang [44] developed a computer code to solve for the steady-state solution of the three-dimensional incompressible Reynolds-averaged Navier-Stokes equations. The solution approach is based on the cell-center, central-difference, finite-volume formation, and an explicit one-step multistage Runge-Kutta time stepping scheme. The Baldwin-Lomax turbulence model was used. The numerical procedure was used to simulate the turbulent-horseshoe vortex flow around an airfoil / flat-plate junction. The computed results were compared with the experimental measurements of Dickinson [33] in the unseparated flow region, the separated flow region, and the wake, and the agreement was generally good qualitatively.

1.1.1.3 Experimental studies at VPI & SU

The need for a fully documented and self-consistent standard test case for evaluating the predictive capability of numerical codes for complex, turbulent flow fields was revealed in the 1981-82 Stanford Conference on Complex Turbulent Flows [45]. Pierce, et al. [46] started a well-structured experimental program in 1980 to provide a complete, detailed, self-consistent and coherent data set which could serve as a standard test case for a complex, separated, three-dimensional turbulent flow. The complex turbulent separated flow investigated was the three-dimensional separated turbulent flow centered about a junction or horseshoe vortex system. This flow was generated by placing a streamlined cylinder normal to a flat surface in a thick turbulent boundary layer (Fig. 1.1). This particular model was used for two reasons. Firstly, it is representative of a simplified wing-body junction, and secondly, the same model was used in earlier experimental studies [47-52], providing some earlier data to enhance and complement the proposed data set.

Menna [14] investigated a pressure-driven three-dimensional turbulent boundary layer flow upstream and around a junction vortex excluding the separated region using a single and three x-array, constant temperature, hot-film anemometers. The measurements include:

(1) mean velocities and normal Reynolds stresses in the initial condition plane well upstream of the junction vortex flow (see Fig.1.4).

(2) edge (freestream) velocities, mean velocities, normal Reynolds stresses, and wall shear stresses in the three-dimensional turbulent boundary layer region (see Fig. 1.4).

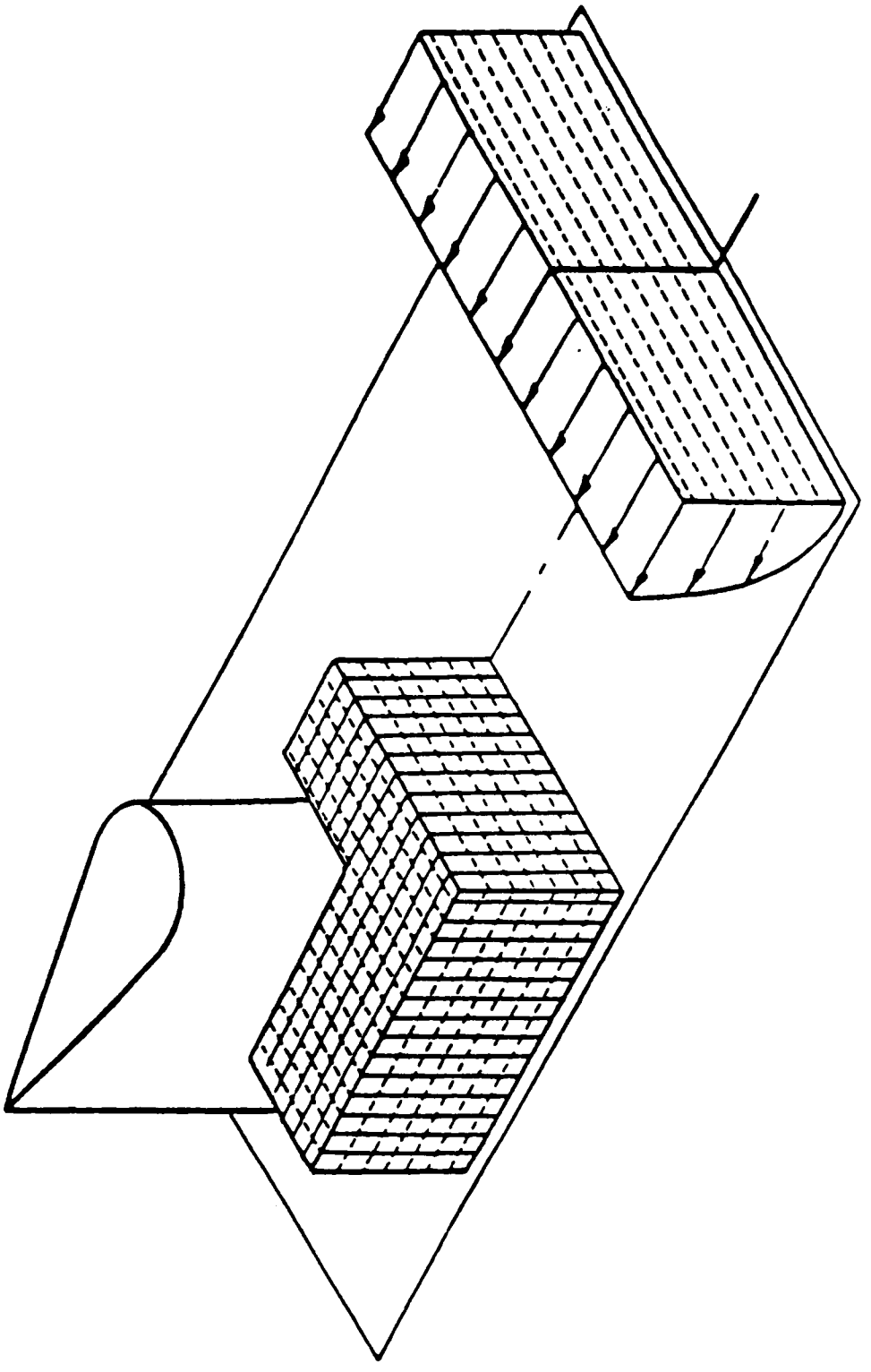


Fig. 1.4 Menna's Measurement Regions [16]

Harsh [15] extended Menna's work into the separated region. He documented the three-dimensional separated flow in the plane of symmetry upstream of the body and in two transverse planes around the body using a five-hole pressure probe. His measurement planes are shown in Fig. 1.5. Studies done by Harsh included:

(1) surface flow visualizations over the floor and on the sides of the body,
(2) surface pressure measurements over the floor and on the sides of the body, and
(3) total pressure field, static pressure field, and three-dimensional mean velocity field measurements on three planes.

Tree's investigation [16] was concentrated on the plane of symmetry flow in the vicinity of the separated region. The measurement region extends 127 mm in front of the body and 39 mm above the wind tunnel floor (Fig. 1.6). Although the mean velocity field was measured by Harsh [15], a small portion of the data he reported were reduced using extrapolated five-hole probe calibration data due to high pitch angles. For this reason, Harsh reported them only for their qualitative merit. To overcome the problem, Tree used a frequency-shifted LDV to survey the separated region of the plane of symmetry flow field. Tree's investigation can be divided into the following five parts:

(1) comparison between LDV results and pressure probe results in the two-dimensional turbulent boundary layer,
(2) detailed, mean velocity measurements on the plane of symmetry junction vortex flow field,

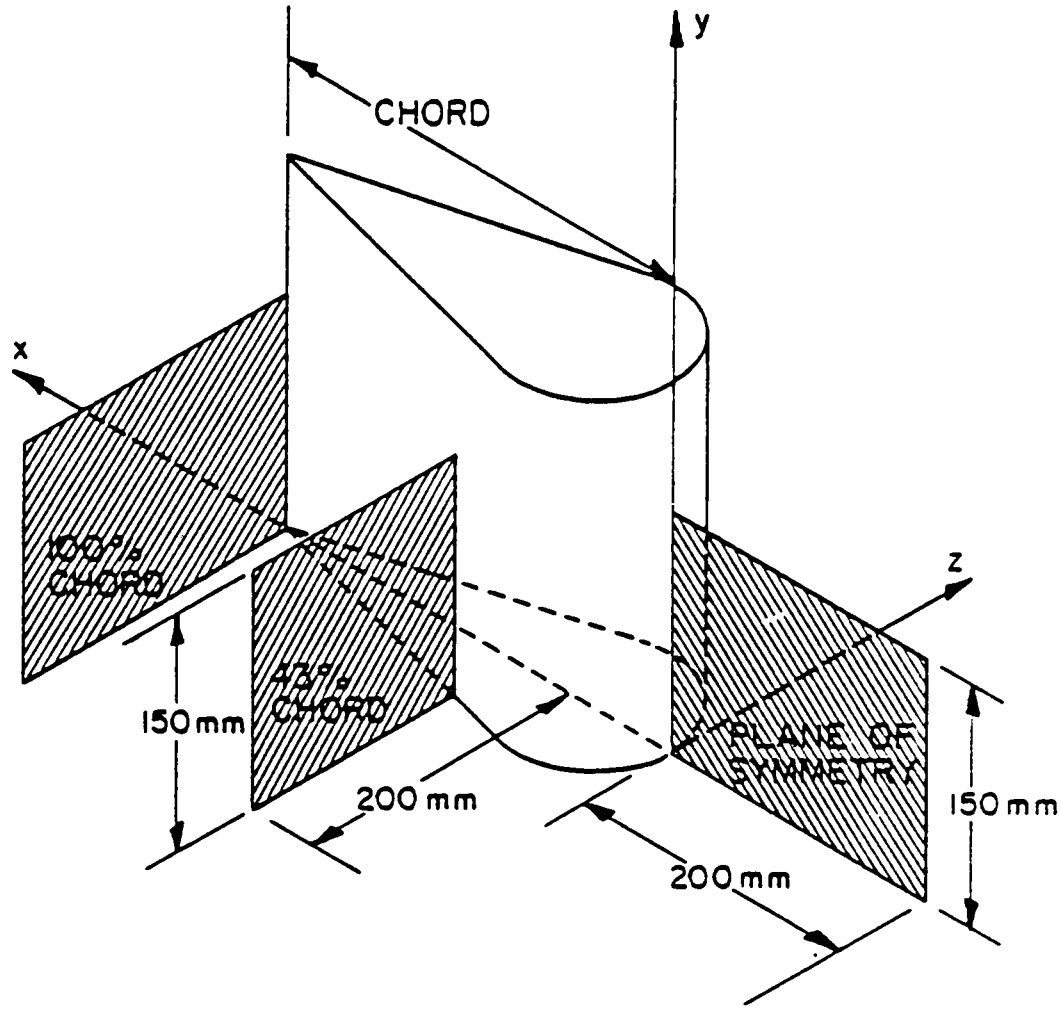


Fig. 1.5 Harsh's Measurement Planes [15]

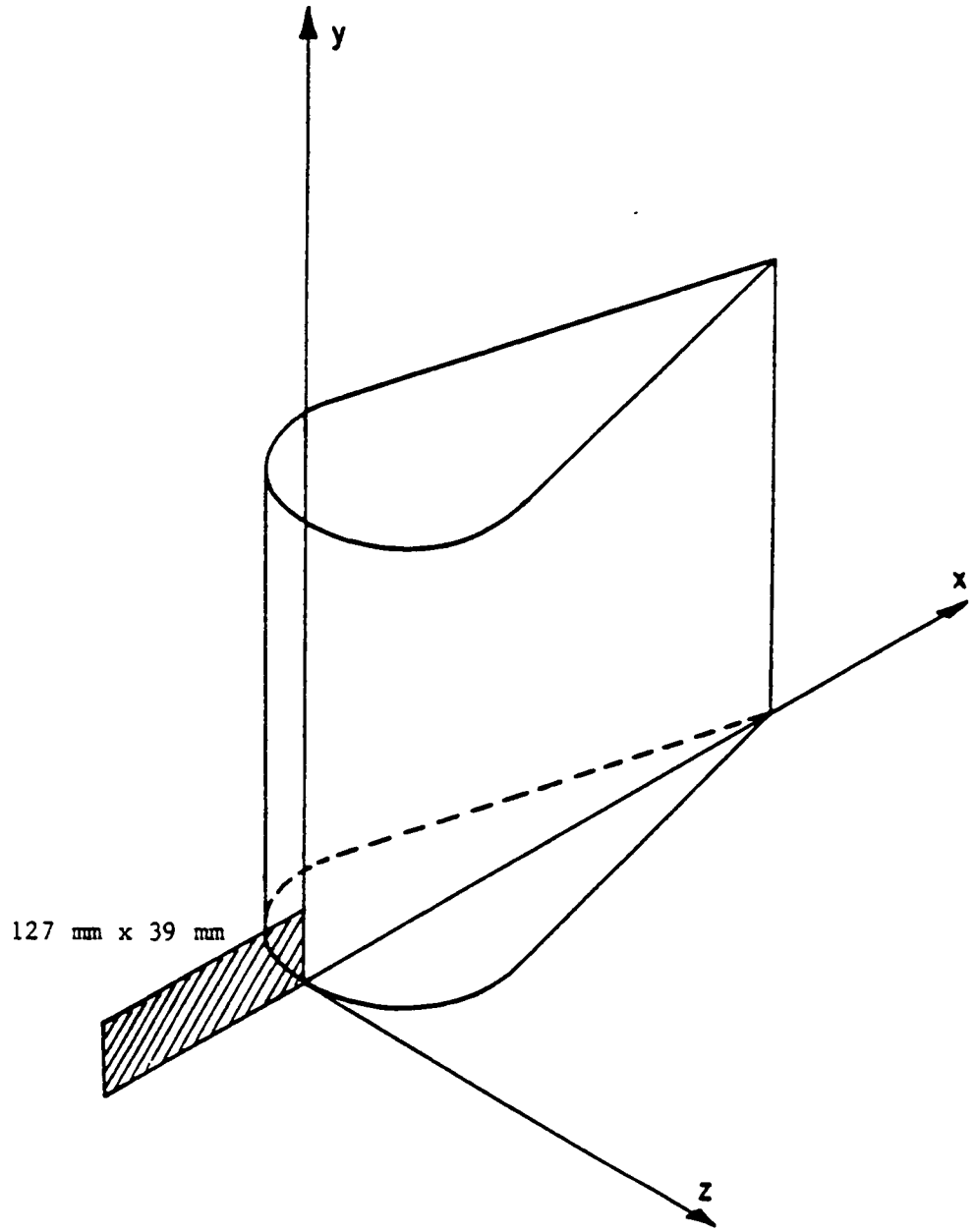


Fig. 1.6 Tree's Measurement Region [16]

(3) correlation of measured velocity field with surface pressure measurements and surface flow visualizations,

(4) comparison of LDV mean velocity data with hot film and five-hole probe results, and

(5) turbulence measurements using an LDV-minicomputer system.

Pierce, et al. [11,53,54] completed the measurements of the three-dimensional turbulent junction vortex flow by documenting the flow field upstream and around the body and in the near wake. The measurements planes extend the complete box-like boundary surrounding the junction vortex flow as shown in Fig. 1.7. These measurement planes consist of:

(1) an upstream symmetry plane,

(2) a downstream symmetry plane,

(3) a streamwise side plane at 38 percent chord length away from and parallel to the body centerline,

(4) a streamwise side plane at 67 percent chord length away from and parallel to the body centerline,

(5) a top plane parallel to the tunnel floor and at 55 percent body height, and

(6) five transverse planes at -67 percent, 43 percent, 100 percent, 150 percent, and 200 percent chord length.

The measurements include total pressure field, static pressure field, and three-dimensional mean velocity field. The results provide a high quality, fully documented, unified, comprehensive, and self-consistent database of the three-dimensional turbulent

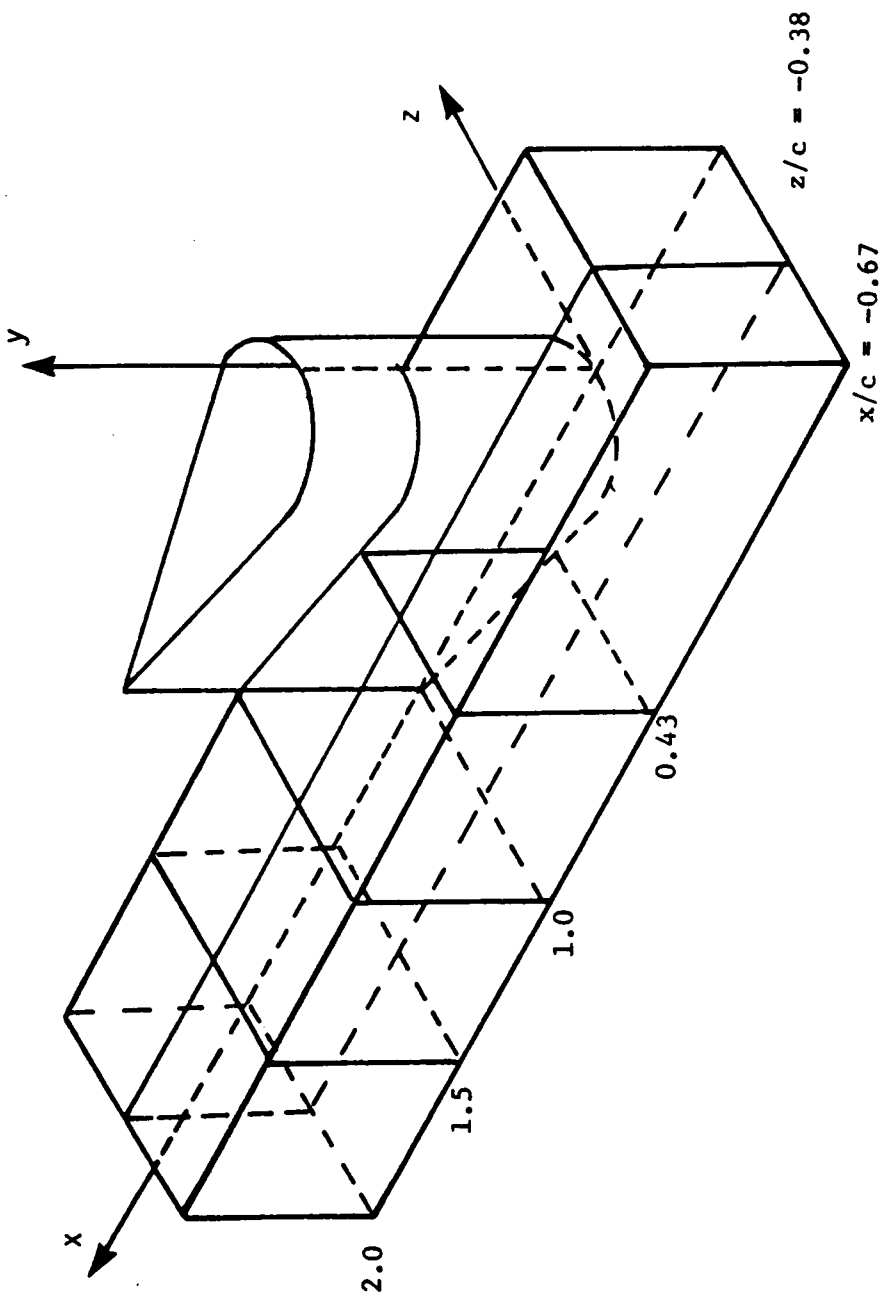


Fig. 1.7 Complete Measurement Planes [53]

junction flow, which should be valuable in assessing the predictive capabilities of computational codes.

1.1.2 Turbine Cascades

Since Hawthorne described the classical secondary flow vortex system in 1955 [55], experimental research on secondary flows in turbine cascades has resulted in a fairly detailed description of the complex endwall patterns. Langston [56] presented a model of the secondary flow which was based on the results of a detailed experimental study he conducted on the evolution of flow through a turbine cascade (Langston, et al. [57]). Gaugler and Russell [58] and Moore and Smith [59] contributed important information about the evolution of horseshoe and passage vortices through cascade passages with their flow visualization studies. Sieverding and Van den Bosch [60] used a colored smoke wire technique to visualize the evolution of entire stream surfaces through cascades. Based on these studies, the secondary flows in turbine blade passages can be described by the following three vortex structures:

(1) Horseshoe vortex: As the inlet boundary layer encounters the leading edge of an airfoil in a turbine cascade, it rolls up and forms a horseshoe vortex. The two legs of the vortex wrap around the airfoil, one extending onto the pressure side of the blade, and the other onto the suction side. The leg on the pressure surface will leave the airfoil and be swept toward the neighboring blade's suction surface.

(2) Passage vortex: The pressure and temperature gradients that exist between two neighboring airfoils induce a secondary flow. Low momentum fluid that passes

between the blades (such as the boundary layer) will tend to be deflected toward the suction surface. This cross- passage flow interacts with the pressure side leg of the horseshoe vortex to become a large spiraling flow known as a passage vortex.

(3) Corner vortex: A small vortex exists in the suction side/endwall corner, but its formation is not well understood. Langston [56] attributes it to the second leg of the horseshoe vortex that originally wrapped around the leading edge to the suction side of the blade. However, Sieverding [60] suggests the corner vortex is formed by the rolling up of the endwall boundary layer fluid as it impacts the suction surface.

Sieverding [61] gives an excellent review of recently conducted studies made to understand the basic aspects of the secondary flows in turbine blade passages.

1.1.3 Streamwise Vortices Embedded in a Turbulent Boundary Layer

Longitudinal vortices generated in or merging with boundary layers appear in two types. One is the "skew-induced" vorticity which is generated by the lateral skewing of a pre-existing shear layer (Prandtl's first kind of secondary flow). The second type is "stress-induced" vorticity which is generated by turbulent Reynolds stresses in a long, straight, non-circular duct (Prandtl's second kind of secondary flow). Since this study deals with a skew-induced vorticity, this review will only cover the works related to this type of vorticity. Skew-induced vorticity can be very strong, and, since it is generated by a basically inviscid process, can occur both in laminar and in turbulent flows. This kind of

vorticity can be found in a wing-fuselage junction where a horseshoe vortex wraps around the wing. Another example of a vortex-boundary layer interaction is in the use of vortex generators to prevent or delay boundary layer separation on airfoils.

Mehta, Shabaka, Shibl, and Bradshaw [62] (see also Shabaka, Mehta, and Bradshaw [63]) made detailed mean-flow and turbulence measurements in the case of a single vortex and of two counter-rotating vortices imbedded in initially two-dimensional boundary layers in nominally zero pressure gradients. In the case of a single vortex, the decay of the structure is very slow, consequently, the vortex influences the flow for a long distance downstream. In the vortex-pair configuration, the interaction phenomena are much stronger due to the presence of a strong secondary flow between the two vortices. The mean streamwise velocity contours, and the normal Reynolds stress terms were distorted by the secondary flow in a cross-sectional plane, of an initially two-dimensional boundary layer. The shear stresses and higher-order quantities were more distorted by the vortex.

As a continued study of the interaction between longitudinal vortices and a turbulent boundary layer, Cutler and Bradshaw [64,65] made mean flow and turbulence measurements on strong longitudinal vortices imbedded in a turbulent boundary layer. They found each vortex in the pair caused strong crossflows in the boundary layer beneath the vortex, and, as a consequence of the no-slip condition, longitudinal vorticity was generated which is opposite in sign to that in the vortex above. After passing under the vortex the boundary layer fluid breaks away from the surface at a separation point and subsequently tends to roll up into a weak secondary vortex before being entrained into the primary vortex. Significant levels of certain components of the Reynolds stresses are generated in the region of separation. The boundary layer outboard of the vortex pair appears to be relatively unaffected.

The mean streamwise development of pairs of longitudinal vortices and arrays of longitudinal vortices embedded in a turbulent boundary layer was also investigated by Pauley and Eaton [66]. They found that close proximity of counter-rotating vortices did not increase loss of vortex strength, but strongly affected the spreading of the vorticity. This means that the rate of circulation decrease (i.e., vortex strength decrease) is independent of vortex spacing, but spreading of vorticity is dependent on vortex spacing.

Westphal, et al. [67] investigated the effect of a moderate adverse pressure gradient on the interaction between a single longitudinal vortex and a turbulent boundary layer. They found that the adverse pressure gradient accelerated the growth of vertical and horizontal dimensions of the vortex center, and caused a stronger distortion of the vortex shape. Turbulence properties were found to be even more strongly disturbed by an adverse pressure gradient than by a zero pressure gradient. They also concluded that the elliptic shape of a vortex in a transverse plane after substantial downstream development was not a manifestation of meander, that is, a spanwise motion of the vortex center.

Westphal and Mehta [68] studied this vortex meander further. The vortex meander was simulated experimentally by forcing a periodic lateral translation of a half-delta wing vortex generator at a low frequency of 1 Hz and one-half amplitude of 0.5 cm. The results showed that the effect of meander was indeed to flatten the vorticity contours at a station where they were originally round. The effect of this forced meander was characterized by comparison of the measurements of the mean velocities and Reynolds stresses at two stations for cases with and without forcing.

1.2 Present Study

As reviewed in Section 1.1.1.3, a carefully organized, long-term project documenting an incompressible, three-dimensional, turbulent junction vortex flow has been completed at the Virginia Polytechnic Institute and State University. The results of this project provide a highly detailed, self-consistent data set which can be used as a standard test case to establish the predictive capabilities of numerical codes developed for junction vortex flows. The data base should also be useful in understanding the physics of a junction vortex flow.

The present study investigated effective methods of controlling the junction vortex system, with emphasis on diminishing the vortex system and its effects around and in the near wake of the body creating the system. Control of the junction vortex system was investigated using two different approaches. One approach was by changing the nose slenderness ratio, and the other approach was by the use of leading edge fillets. To establish a reference case, the flow field around and in the wake of a NACA 0020 body with a 1.5:1 elliptical nose was documented in detail. The objectives of the present study were:

(1) to obtain a better understanding of the junction vortex system in the turbulent junction flow,

(2) to investigate the effects of nose shapes on the strength and size of the junction vortex system, and

(3) to investigate the effects of leading edge fillets on the strength and size of the junction vortex system.

In some flow fields, cancellation or reduction of the streamwise vorticity is desirable. For example, the horseshoe vortex at the junction between the blade and the endwall in turbomachinery produces a unavoidable secondary flow and causes losses [69-71]. As the pressure side leg of the horseshoe vortex moves across the passage it entrains low momentum fluid particles from the newly formed passage endwall boundary layer and it grows to become the passage vortex which is the most dominant feature of the flow. This entrainment of the passage endwall boundary layer fluid significantly affects the development of the passage vortex and is a key mechanism in the generation of the secondary flows and endwall losses. Secondary losses form a significant part of total losses, and their reduction should offer a substantial potential to improve efficiency [72].

At the sail/hull junction of submersibles, the tails of the horseshoe vortex coming off the two sides of the sail mix with the wake from the boundary layers developed on the sail sides and the hull. Although the horseshoe vortex can have positive effects on wake relaxation and diffusion, it is speculated that the horseshoe vortex can reduce the effectiveness of downstream control surfaces and increase radiated noise, as well as adversely affect the propulsor disk flow.

Several studies have been reported in the area of the junction vortex control. McGinley and Beeler [73,74] and McGinley [75] placed vortex unwinders, which are rectangular flat-plate elements, in the path of the vortex in the wake to produce vorticity or circulation of the opposite sign relative to the original streamwise vorticity. Gupta [76] also used this concept of the vortex cancellation to control the horseshoe vortex. He generated counter-rotating vortices with respect to the horseshoe vortex by placing a delta wing upstream of the body. While the above mentioned studies showed that the vortex cancellation method seemed to be effective in cancelling or reducing the vorticity

in the junction flow, finding an effective shape and a location of the control device to generate the vorticity with the opposite sign required a large amount of time and effort. In the case of varying flow conditions, there would be the problem of moving and changing the angle of attack of such a vortex controller.

The approach used to control the horseshoe vortex in this study is different from the vortex cancellation method. Squire and Winter [77], Hawthorne [78,79] and Horlock and Lakshiminarayana [80] derived the equation to calculate the streamwise vorticity for an inviscid and incompressible fluid. More general equations for the streamwise vorticity which are valid for compressible and viscous flow were derived directly from the vector equation for vorticity using intrinsic coordinates by Lakshiminarayana and Horlock [81]. According to these, vortex lines are skewed through an angle equal and opposite to that through which the flow has turned. Since nose shape affects the turning angle of the flow, this suggests that nose shapes can affect the strength of the horseshoe vortex.

The effects of the leading edge shape on a horseshoe vortex have been investigated in earlier work. Dickinson [33], Mehta [82], Kornilov and Kharitonov [83], Rood [84] , and Moore and Ransmayr [85] reported that the strength of the vortex is weaker for a slender nose. Only Mehta [82] made actual measurements to compare results for various nose shapes. However, he only made measurements at one transverse plane, which did not provide details on the development of the horseshoe vortex. This study made an attempt to address the nose shape effects on the development of the horseshoe vortex by making measurements at several transverse planes around a body and in the wake for different nose shapes.

The strength of the vortex can also be affected by the inclination of the leading edge of a body since an inclined leading edge generates a lesser total pressure gradient

along the leading edge. Leading edge fillets were used to simulate sweep effects. Kubendran and Harvey [86] and Kubendran, et al. [87] made experimental investigations of junction flow control using leading edge fillets. Sung, et al. [88] investigated junction flow control using leading edge fillets numerically by solving the three-dimensional incompressible turbulent Reynolds averaged Navier-Stokes equations. Since Sung's main objective was to reduce the non-uniformity in the wake, the effects of fillets on the horseshoe vortex itself were not investigated in detail. The present study investigated the control of the junction vortex flow using leading edge fillets and the effects of fillets on the development of the horseshoe vortex.

The flow field was documented at transverse planes around the body and in the wake using a carefully calibrated Prandtl-type, biconic, five-hole pressure probe. The measurements yielded the three-components of mean velocity, static pressure, and total pressure. The experimental program was divided into the following five parts:

(1) Mean flow measurements of the flow field around and in the wake of the 1.5:1 elliptical nose body.

(2) Mean flow measurements of the flow field around and in the wake of the slender nose bodies (4:1 elliptical nose body and 4:1 wedge elliptical nose body).

(3) Mean flow measurements of the flow field around and in the wake of the 1.5:1 elliptical nose body with three leading edge fillets.

(4) Mean flow measurements of the flow field in the wake of the 1.5:1 elliptical nose body with a leading edge fillet and a trailing edge fillet.

(5) Flow visualizations of the surface flows on the flat floor of the wind tunnel and on the above mentioned bodies using an oil-film technique.

The following chapters describe this experimental study. Chapter 2 contains descriptions of the wind tunnel, the five-hole pressure probe, the data acquisition system, the bodies and fillets, and the coordinate system used to describe the measurements. Experimental methods are described in Chapter 3. Chapter 4 presents the experimental results and discussions of the results. Chapter 5 summarizes the study.

2. FACILITIES

2.1 Wind Tunnel

Experiments were conducted in the open circuit, subsonic wind tunnel shown in Fig. 2.1. The wind tunnel was originally designed by Tennant [89] and several changes were made by McAllister [52], Menna [14], Harsh [15], and Tree [16] for their research. This section describes the major features of the current wind tunnel.

Temperature-controlled laboratory air is drawn into the wind tunnel through a 3.66 m wide and 2.44 m high rectangular inlet section which consists of a 6 mm thick polyester filter cloth, a fiberglass screen with an open flow area ratio of 0.71, a matrix of 25 mm outside diameter cardboard tubes with a length-diameter ratio of 6.0, and three additional fiberglass screens identical to the aforementioned one. Menna [14] investigated several combinations of screens with and without the filter cloth and chose the current arrangement to minimize transverse flow nonuniformities downstream of the inlet.

The inlet is followed by a 16 to 1 area ratio contraction which is designed to produce a uniform flow with zero acceleration at the exit. Following the convention used by Harsh [15], the contraction exit is referred to as the tunnel throat. The boundary layer is tripped on all four sides of the tunnel at the throat with 2.8 mm diameter metal rods. Air speed is measured by a 1.6 mm diameter pitot tube positioned in the center of the throat.

Connected to the contraction at the throat is a straight, constant cross section channel 6.35 m long, 0.91 m wide, and 0.61 m high. The leading edge of a body is placed 5.0 m downstream of the throat and in the center of a 254 mm wide, removable test plate. A position 5.0 m downstream of the wind tunnel throat will be referred to as the test section. A 1.22 m long, 0.51 m wide section of the roof above a body is also removable

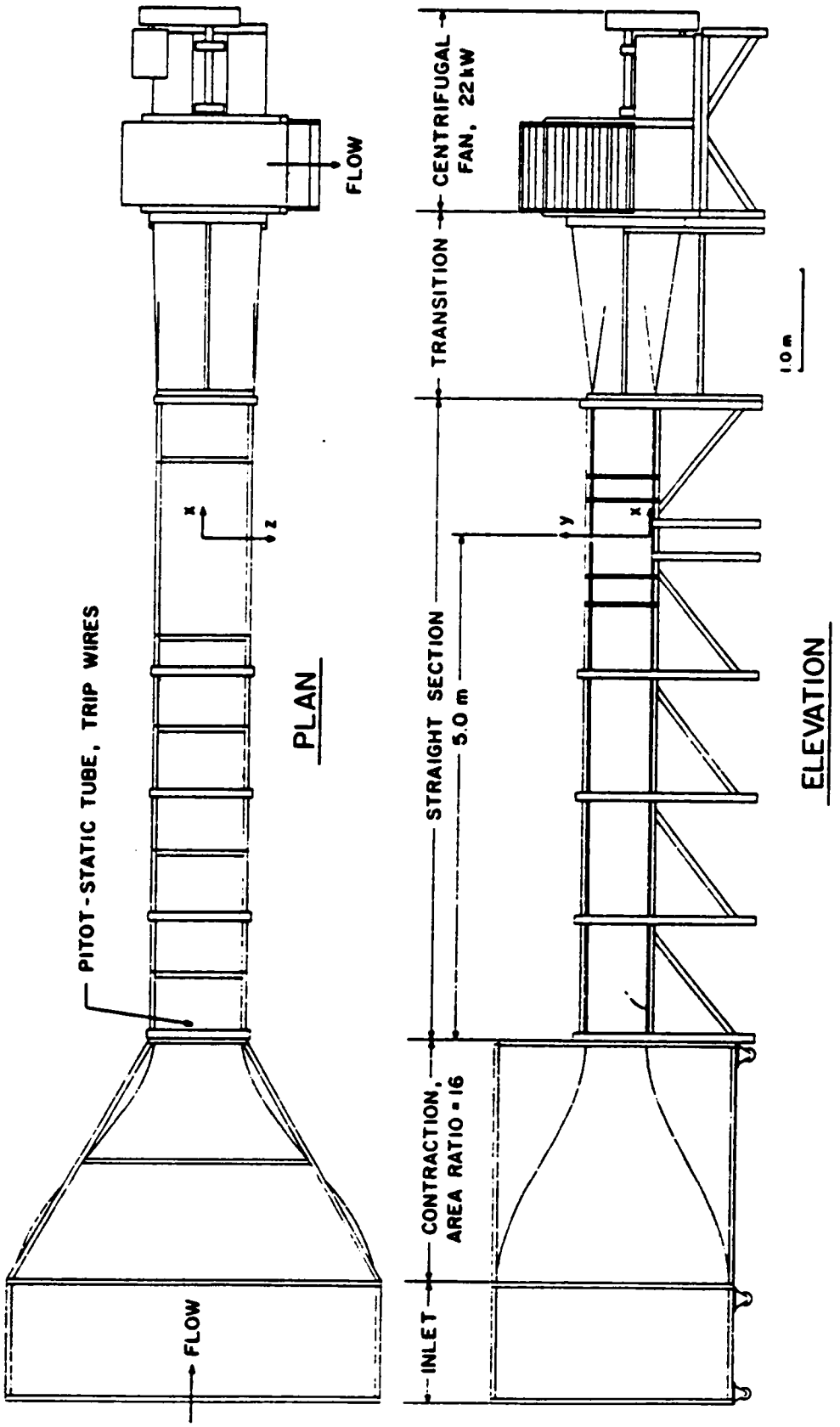


Fig. 2.1 Open Circuit, Subsonic Wind Tunnel Used in the Experimental Investigation

and can be replaced by various roof pieces configured to accommodate the five-hole probe and traversing equipment at different measurement locations. The freestream turbulence intensity at the test section was measured at about 0.5%.

A rectangular to circular transition couples the straight channel to a 30 HP centrifugal fan. Closely packed cardboard tubes located in the downstream end of the transition minimize any possible flow disturbances generated by the fan. The fan is isolated from the transition by a flexible foam seal and the flow rate is controlled by a set of louvers at the fan exit.

Since day to day variations in barometric pressure could not be controlled, dynamic similarity was maintained by holding the Reynolds number at the wind tunnel throat constant. The Reynolds number per unit length is given by

$$\frac{Re}{L} = \frac{\rho_\infty \bar{V}_*}{\mu_\infty} , \tag{2.1}$$

and was kept at 1,340,000 per meter throughout this study. Nominal laboratory and tunnel conditions have been summarized by Harsh [15] and are presented in Table 2.1.

2.2 Five-Hole Probe and Data Acquisition System

A 3.18 mm diameter, United Sensor Corporation made, type DC, five-hole pressure probe shown in Fig. 2.2 was used to measure distributions of three-dimensional mean velocity, total pressure, and static pressure. The probe was calibrated very carefully by Harsh [15] and the calibration method will be reviewed in Chapter 3.

Table 2.1 Nominal Laboratory and Wind Tunnel Conditions for the Experiment [15]

Ambient Temperature	25 C
Barometric Pressure	94.5 kPa
Dynamic Pressure at Wind Tunnel Throat	0.274 kPa
Reynolds Number at Throat[1]	9.80×10^5
Pressure Drop Through Inlet Section	45 Pa
Flow Parameters at Test Section[2]	
Freestream Turbulence Intensity	0.5% - 0.6%
Freestream Speed/Speed at Throat	1.077
Boundary Layer Thickness	81.6 mm
Displacement Thickness	10.5 mm
Momentum Thickness	8.09 mm
Skin Friction Coefficient	2.56×10^{-3}

[1]Based on the hydraulic diameter.

[2]"Test section" refers to a streamwise position 5.0 m downstream of the wind tunnel throat. These boundary layer parameters are an average of 9 observations made across the test section with no test article in the wind tunnel.

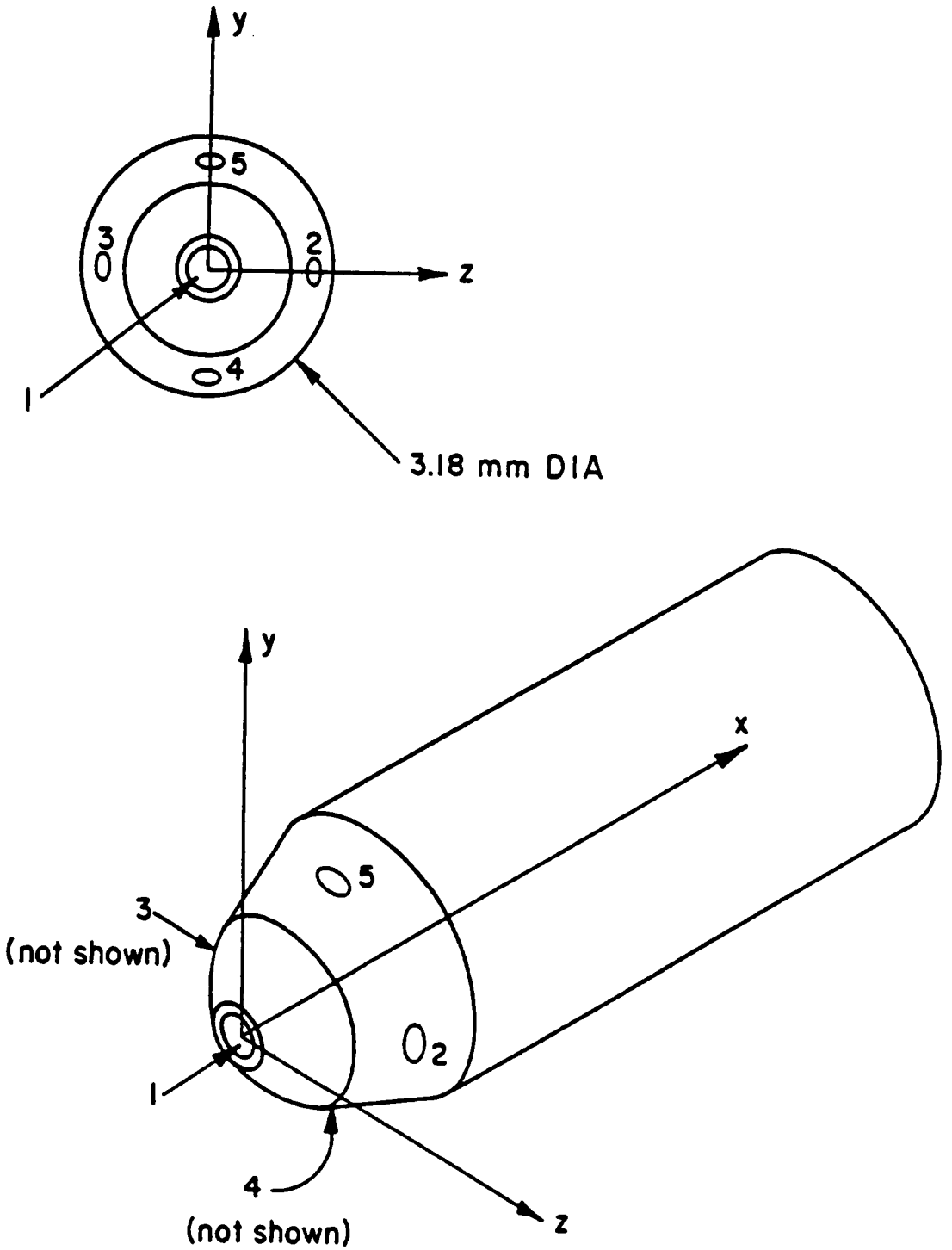


Fig. 2.2 Five-Hole Pressure Probe [15]

The five-hole probe data were acquired using an automated digital data acquisition system designed by Herwig [90]. A block diagram of the system is shown in Fig. 2.3. The heart of the system is the TRS-80, Model III microcomputer, based upon the z-80 microprocessor. It contains forty-eight thousand bytes of programmable memory and two floppy disk drives that accommodate five and a quarter inch floppy disks, each with a storage capacity of 184,000 bytes. The TRS-80 has an external input/output (I/O) bus that provides signals for external interfacing purposes. The system is capable of addressing 256 input/output ports.

The fifty-conductor cable is attached to this bus to extend these signals to the system interfaces through the DE-80 interface box. The DE-80 box houses power supplies and card edge connectors for interfacing cards. Five input/output ports were used, including four ports for digital input or output purposes and one port for traverse stepper motor control. In the data acquisition application, any digital instrument that is equipped with a Binary Coded Decimal (BCD) output capability is compatible with this system. Four Datametrics 1400 four and one-half digit manometers were used in this study and manufacturer's specifications are given in Table 2.2.

The two degree of freedom traversing mechanism was used in the automated system to define the vertical and yaw positions of the probe. The probe movement is controlled by two Bodine Electric Company type 23T1BEHH stepper motors. The computer commands that are used to step either motor are transferred to the motors through the I/O port in the DE-80 box and through the stepper motor interface box. The mechanical limitations on the vertical movement are a minimum vertical increment of 5 μm and a traverse range of 180 mm. The minimum angular increment is 0.036° with an arbitrary rotation range of 360°.

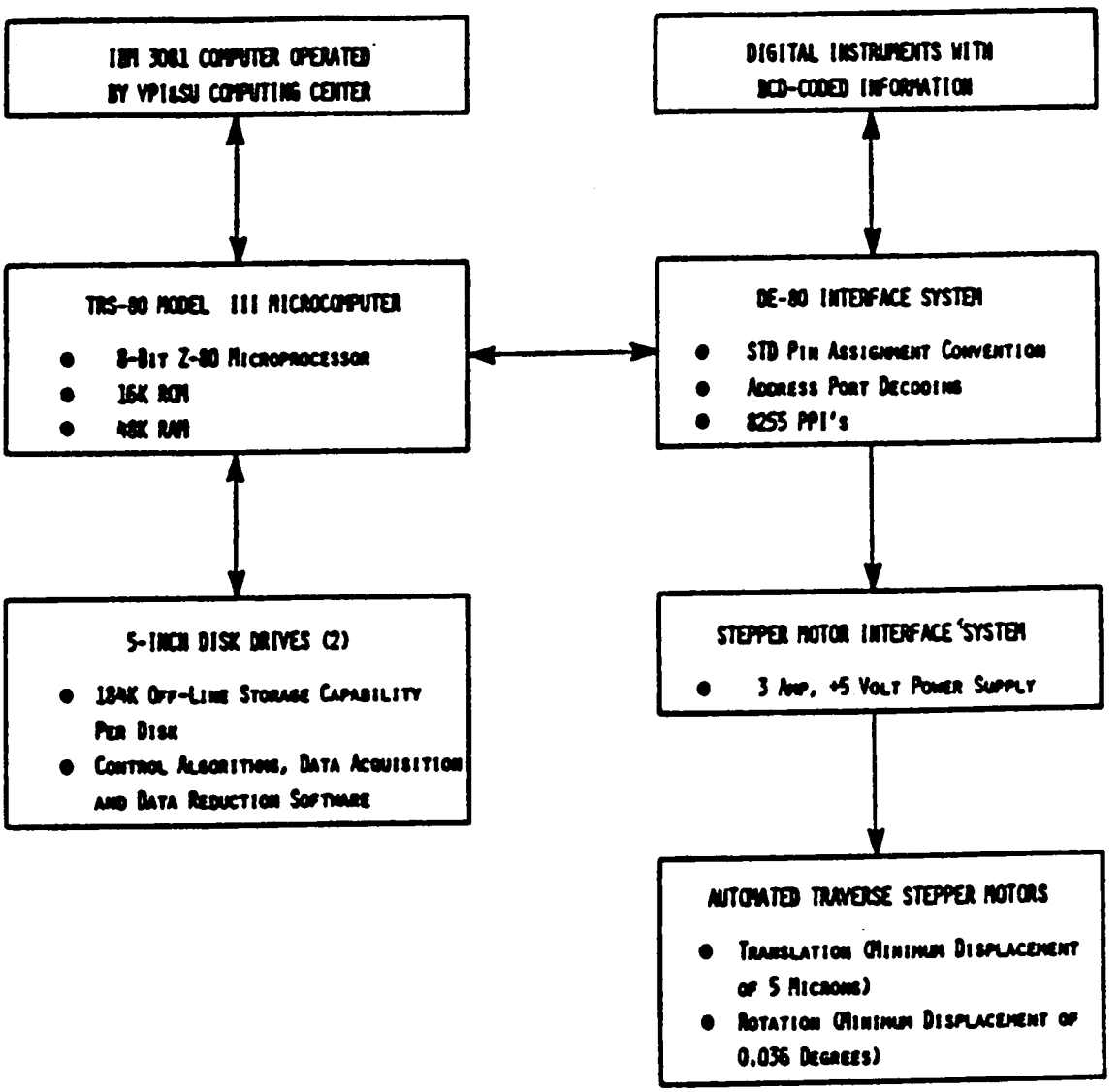


Fig. 2.3 Block Diagram of the Data Acquisition System [90]

Table 2.2 Manufacturer's Specifications for the Digital Manometers

Manufacturer	Datametrics Dresser Industries, Inc. 340 Fordham Road Willimgton, Massachusetts 01887
Specifications	
Model	1400-9AX (readout) 590D-10W-1P1-V1X-4D (pressure sensor)
Range	± 2.5 kPa
Accuracy	0.15% reading + 0.001% full scale

2.3 Bodies and Fillets

2.3.1 Bodies

A streamlined cylinder with a maximum thickness of 127 mm, an overall length (chord) of 298 mm, and a height of 229 mm was used by Harsh [15], and Tree [16] for their research on a turbulent junction flow. This body is referred to as the teardrop body hereafter. The teardrop body generates a strong secondary flow according to the study by Harsh [15]. Since the secondary flow in a junction flow is induced by skewing the oncoming boundary layer, a slender body produces a weaker secondary flow.

A body which has a 1.5:1 elliptical nose and a NACA 0020 tail joined at the maximum thickness location, with a maximum thickness of 71 mm (2.8 in.), was used to make comparisons with the teardrop body for the effects of body slenderness on the secondary flow. This body will be referred to as the 1.5:1 elliptical nose body. It has a chord of 302 mm (11.9 in.), and a height of 248 mm (9.75 in.). This body was chosen because it had been used by several investigators [18,33,42,43,44] and it generates an adequate secondary flow for study.

A 4:1 elliptical nose body and a 4:1 wedge elliptical nose body were made to investigate the effects of nose shapes on the structure of the horseshoe vortex. Each body has the same NACA 0020 tail joined at the maximum thickness location and has a chord of 391 mm (15.4 in.), and a height of 260 mm (10.25 in.). The nose shapes are based on the equation,

$$\left[\frac{x}{5.6}\right]^n + \left[\frac{z}{1.4}\right]^n = 1.0\,, \tag{2.2}$$

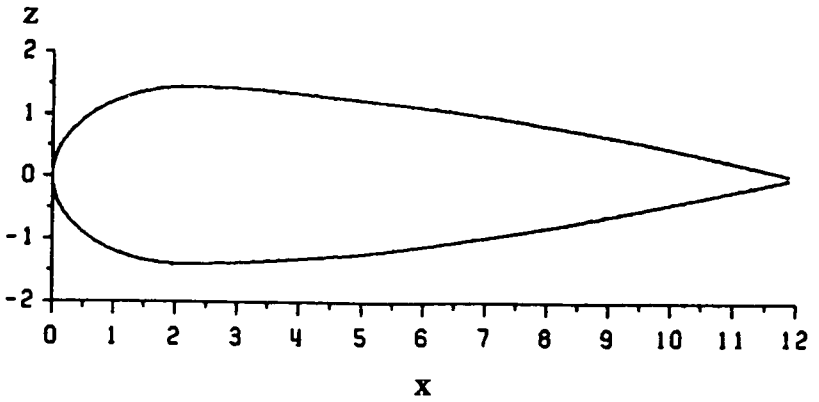
with n=1.5 (wedge elliptic), n=2.0 (elliptic). The thickness is the same for all three bodies to maintain a constant area blockage in the wind tunnel.

Since the three bodies have the same thickness but different chord lengths, a Reynolds number based on the maximum thickness is used throughout the present study unless otherwise noted. As mentioned in Section 2.1, dynamic similarity was maintained by holding the Reynolds number at the tunnel throat constant at 1,340,000 per meter. Body Reynolds number based on the maximum thickness corresponds to 102,460.

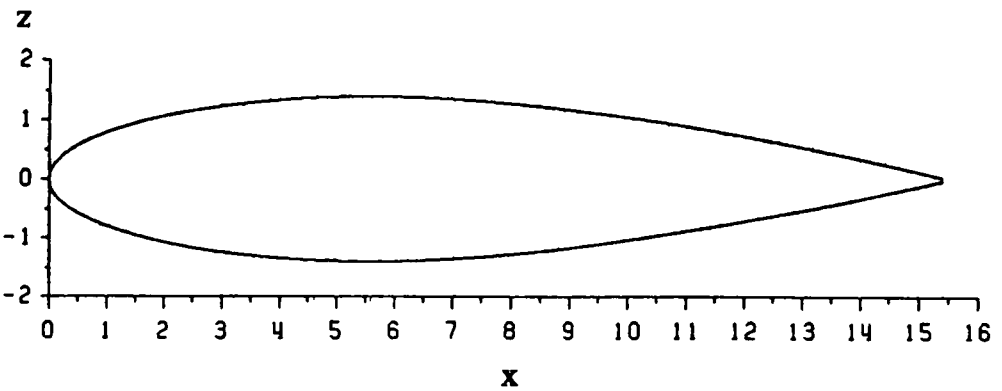
The 1.5:1 elliptical nose body is made out of aluminium and the other two bodies are made out of wood simply because wood was much easier to handle in the finishing process. A numerically-controlled milling machine was used to fabricate the bodies. The body boundary layers of all three bodies were tripped with 0.8 mm (0.031 in.) diameter wire at an x/c location of 0.05. The different nose shapes investigated are shown in Fig. 2.4 and x and z coordinates of three bodies can be found in Appendix A.

2.3.2 Fillets

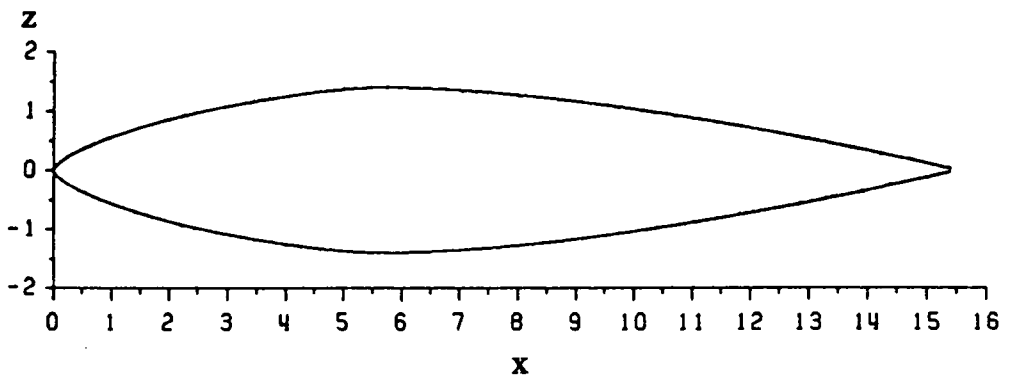
Three different leading edge fillets are used to investigate the effects of a slant leading edge on the secondary flow. In an attempt to simplify fabrication efforts and insure a shape easily duplicated, a simple flat sided pyramid with a triangular center plane projection was chosen over a contoured shape. The boundary layer thickness (81.6 mm) at the test section was taken as the length scale for the height of a fillet and the maximum thickness of the 1.5:1 elliptical nose body (71.1 mm) was taken as the length scale for the base length of a fillet. The fillet effects were investigated only with the 1.5:1 elliptical nose body.



NACA 0020 with a 1.5:1 Elliptical Nose (Chord = 11.9 in.)



NACA 0020 with a 4:1 Elliptical Nose (Chord = 15.4 in.)



NACA 0020 with a 4:1 Wedge Elliptical Nose (Chord = 15.4 in.)

Fig. 2.4 Bodies Used in the Experimental Investigation

Fillet #1 has a base length of two maximum thicknesses and a height of half the boundary layer thickness. Fillet #2 has a base length of one maximum thickness and the same height as fillet #1. Fillet #3 is geometrically similar to fillet #2 except its base length and the height are twice those of the fillet #2. The three fillets are shown in Fig. 2.5. The two side edges of the base plane of each fillet are tangent to the 1.5:1 elliptical nose body and the sides of each fillet were fabricated using several templets at different heights to make them flat plane surfaces.

A single trailing edge fillet was also used to study the effects on the near trailing edge region. This trailing edge fillet has a base length of one maximum thickness and a height of one boundary layer thickness. Figure 2.6 shows the 1.5:1 elliptical nose body with fillet #3 and the trailing edge fillet. All fillets were made out of plaster and a small amount of clay was applied to hold the fillets in place.

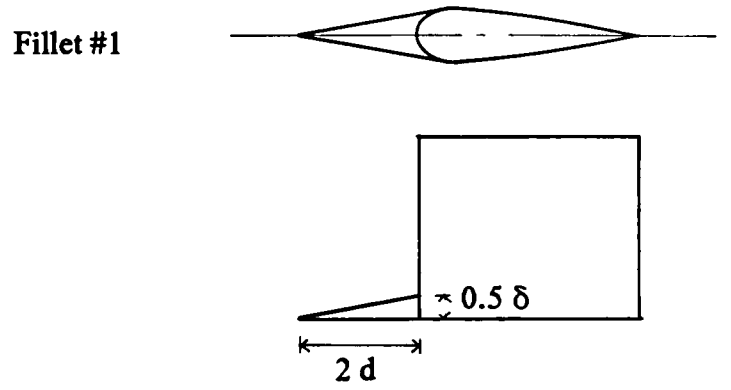
2.4 Coordinate System

The right-handed Cartesian coordinate system is used to describe the flow field as shown in Fig. 2.7 with the 1.5:1 elliptical nose body. The origin of the coordinate system is at the intersection of the tunnel floor centerline with the leading edge of the 1.5:1 elliptical nose body. The y axis ideally defines the stagnation line on the body, while the x-z plane defines the flat floor of the wind tunnel. For convenience, the z direction will be referred to as the spanwise or transverse direction. The mean velocity components U, V, and W represent the fluid velocities along the x, y, and z axes, respectively.

A typical mean velocity vector is shown in Fig. 2.8. Yaw and pitch angles are defined as angles of rotation about the y and z axes. In terms of the components of the mean velocity vector, these angles are given by:

$$\beta = \tan^{-1}\left[\frac{W}{U}\right], \tag{2.3}$$

$$\alpha = \tan^{-1}\left[\frac{V}{U}\right]. \tag{2.4}$$



where, δ = 81.6 mm, boundary layer thickness at the test section without the body, and
d = 71.1 mm, maximum thickness of the body.

Fig. 2.5 Leading Edge Fillets Used in the Experimental Investigation

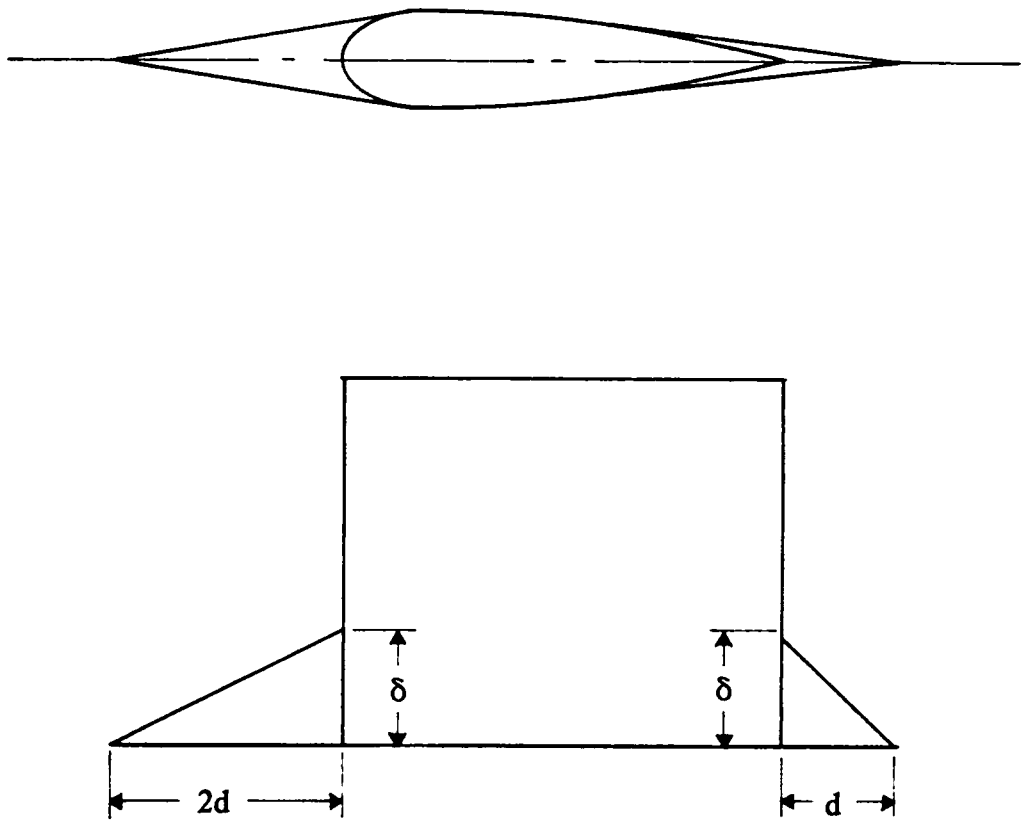


Fig. 2.6 Leading Edge Fillet #3 and the Trailing Edge Fillet

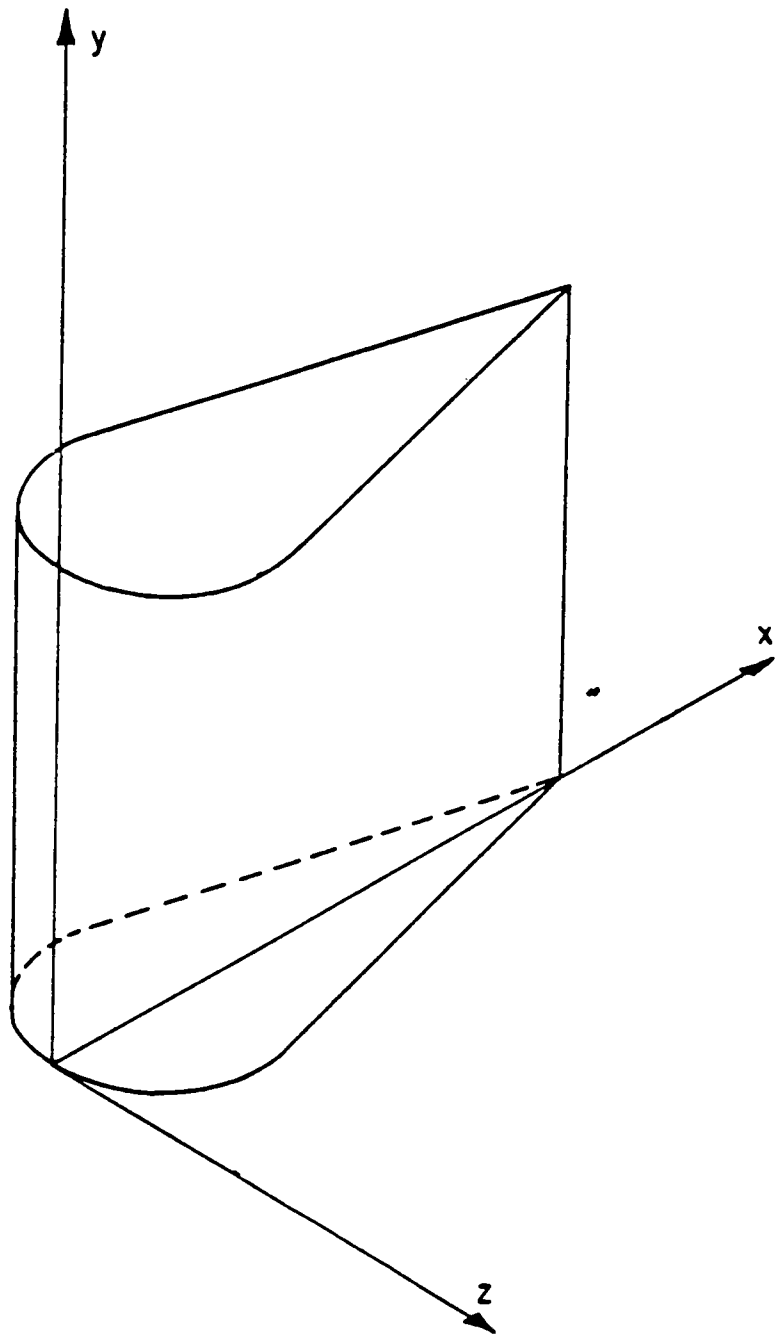


Fig. 2.7 Coordinate System

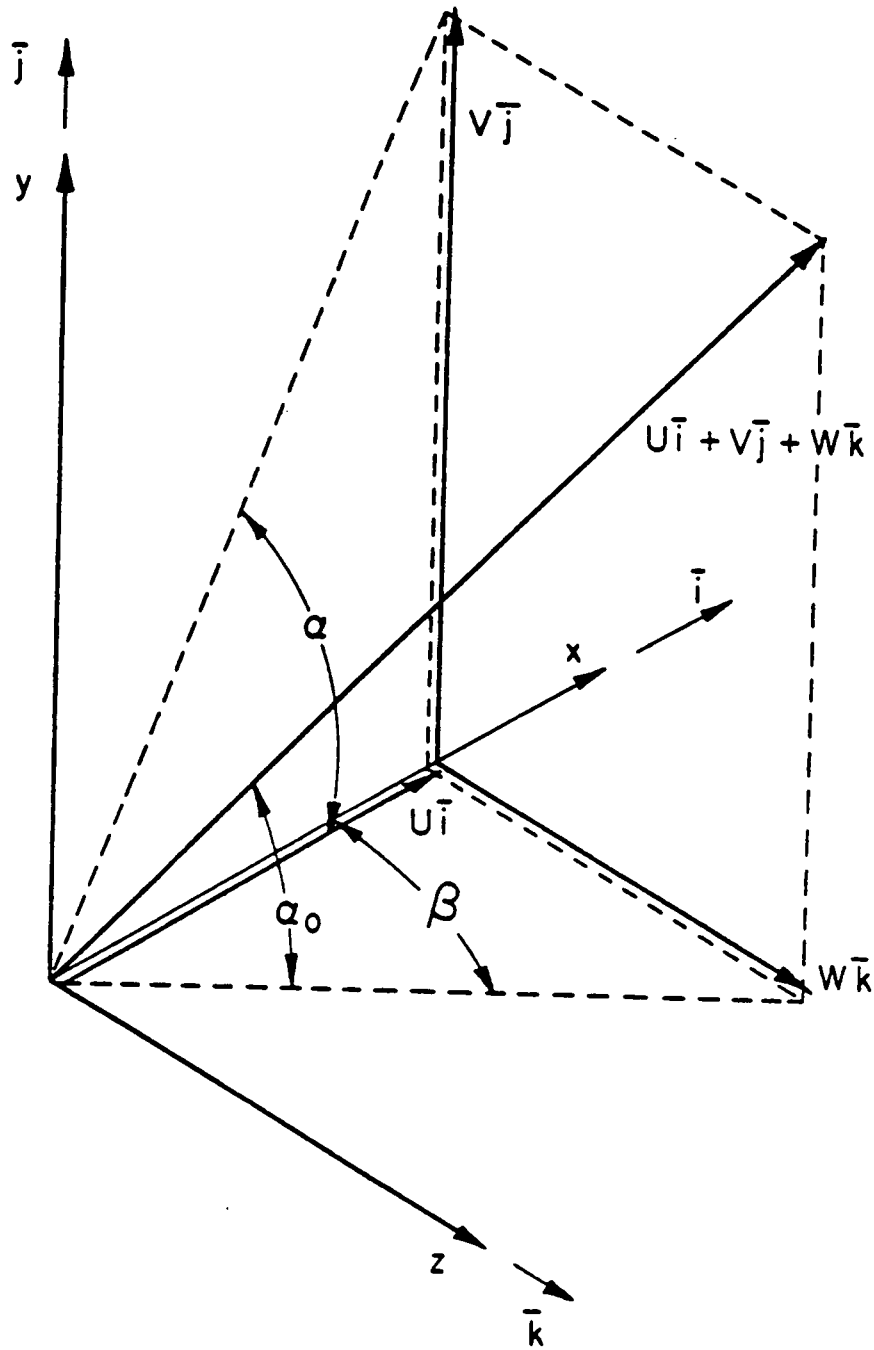


Fig. 2.8 Typical Mean Velocity and Flow Angles

3. METHODS

3.1 Probe Calibration

The five-hole probe shown in Fig. 2.2 had been calibrated for pitch angle in the free jet of the calibration tunnel by Harsh [15]. Details of the calibration methods and a detailed description of the calibration tunnel can be found in Harsh [15], with only a brief review given in this section.

The probe calibration was performed in the center of the large free jet leaving the straight section of duct of the open circuit, subsonic wind tunnel shown in Fig. 3.1. Air speeds in the core of this large jet ranging from 5 to 40 m/s at a turbulence intensity level less than 1 percent were possible by adjusting the louvers upstream of the centrifugal fan. The air speed for the probe calibrations was obtained by assuming that the dynamic pressure, Q, in the core of the jet was equal to the pressure difference:

$$Q = P_k - P_\infty , \tag{3.1}$$

where P_k is the total pressure indicated by a 3.18 mm diameter, United Sensor Corporation Kiel probe positioned near the probe to be calibrated. The Kiel probe used to measure the total pressure is also described in Harsh [15]. Thus the speed was given by:

$$\bar{V} = \sqrt{\frac{2RT_\infty Q}{P_\infty}} , \tag{3.2}$$

Three calibration functions were considered including a pitch pressure coefficient,

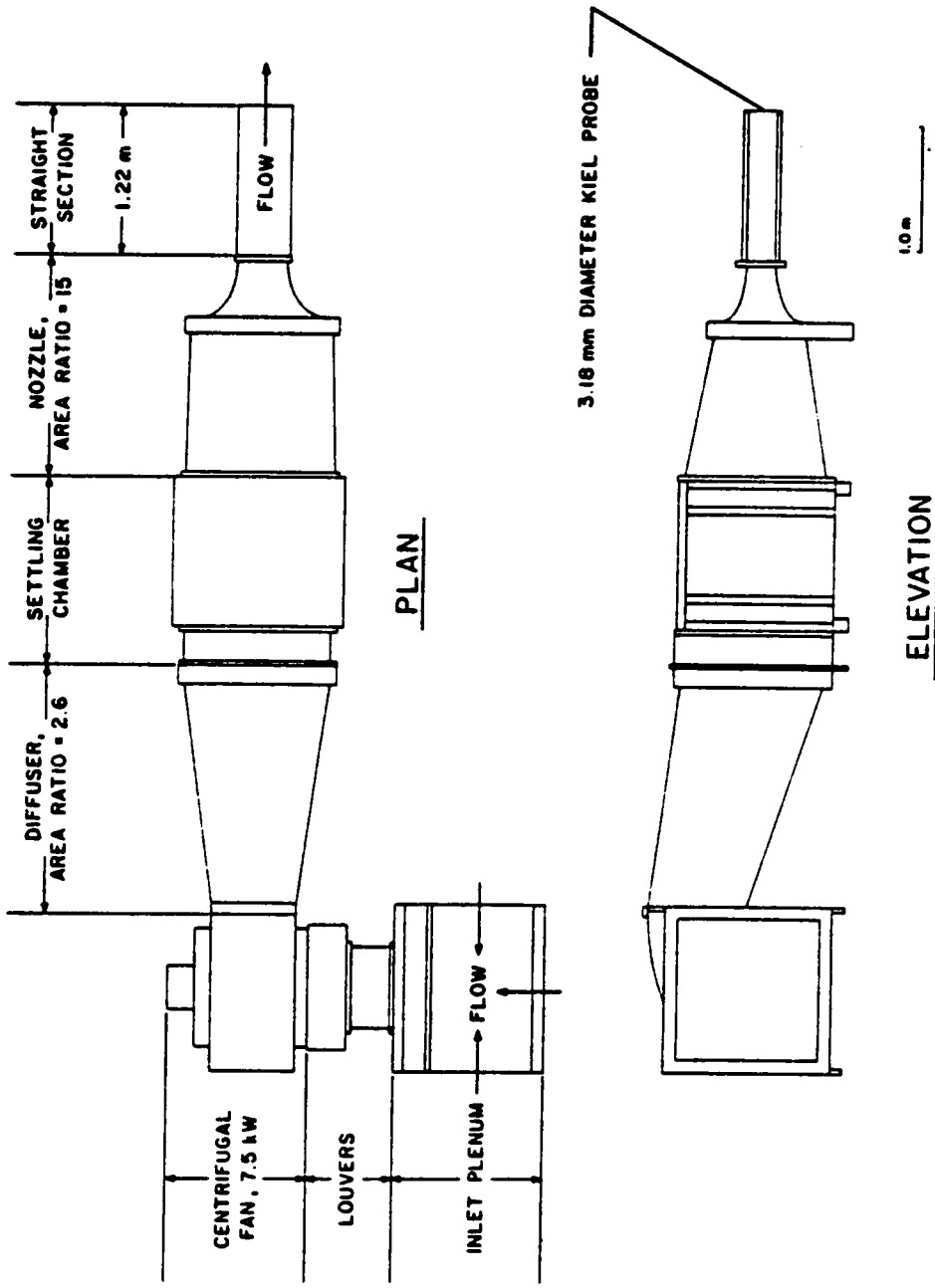


Fig. 3.1 Open Circuit, Subsonic, Calibration Wind Tunnel [15]

$$f_1(\alpha, Re_p) = \frac{P_4 - P_5}{P_1 - P_2} \quad , \tag{3.3}$$

a dynamic pressure coefficient,

$$f_2(\alpha, Re_p) = \frac{Q}{P_1 - P_2} \quad , \tag{3.4}$$

and a total pressure coefficient,

$$f_3(\alpha, Re_p) = \frac{P_1 - P_T}{Q} \quad , \tag{3.5}$$

where the probe Reynolds number is given by:

$$Re_p = \frac{\rho \bar{V} D_p}{\mu} \quad . \tag{3.6}$$

Data required to evaluate these functions was acquired over a large range of pitch angles ($\pm 15^o$) and a range of Reynolds number greater than those anticipated in the three-dimensional flow measurements.

As many as thirty-two different models were considered for each calibration function, including all polynomial models through fourth-degree in pitch and first-degree in probe Reynolds number. Coefficients in the model functions were evaluated using weighted least squares [91-94] with the weights equal to the inverse of the squared estimated uncertainties in the calibration data. Only the dynamic pressure coefficient was

found to have a significant Reynolds number dependency. The final choices for the calibration functions are given by:

$$f_1(\alpha) = B_1 + B_2\,\alpha \ , \qquad (3.7)$$
$$= -0.0139 + 0.0332\,\alpha \ ,$$

$$f_2(\alpha) = B_3 + B_4\,\alpha + B_5\,\alpha^2 + B_6\,Re_p \ , \qquad (3.8)$$
$$= 0.912 + 0.00131\,\alpha - 5.7\,(10^{-5})\,\alpha^2 - 1.9\,(10^{-6})\,Re_p \ ,$$

$$f_3(\alpha) = B_7 + B_8\,\alpha + B_9\,\alpha^2 + B_{10}\,\alpha^4 \ , \qquad (3.9)$$
$$= -0.0065 - 6.3\,(10^{-4})\,\alpha - 1.57\,(10^{-4})\,\alpha^2 - 7.2\,(10^{-7})\,\alpha^4 \ .$$

Three pressure differences, $P_4 - P_5$, $P_1 - P_2$, and $P_1 - P_{T,*}$, were recorded at each vertical position. Using these data and the aforementioned calibration functions, the pitch angle with respect to the probe was given by:

$$\alpha_0 = \frac{1}{B_2}\left[\frac{(P_4 - P_5)}{(P_1 - P_2)} - B_1\right] . \qquad (3.10)$$

Equation 3.8 was then used to determine the local dynamic pressure:

$$Q = (P_1 - P_2)\, f_2(\alpha_0, Re_p) \qquad (3.11)$$

which yielded the speed using the Bernoulli relation, Eq. 3.2. The total pressure coefficient,

$$C_{P,T} = \frac{P_T - P_{T,*}}{Q_*} \quad , \tag{3.12}$$

was given by:

$$C_{P,T} = \frac{(P_1 - P_{T,*}) - Q\, f_3\, (\alpha_0)}{Q_*} \quad , \tag{3.13}$$

and the static pressure coefficient,

$$C_{P,S} = \frac{P_S - P_{T,*}}{Q_*} \quad , \tag{3.14}$$

by:

$$C_{P,S} = C_{P,T} - \frac{Q}{Q_*} \quad . \tag{3.15}$$

The flow pitch angle given by Eq. 3.10 is relative to the local flow yaw angle, as shown in Fig. 2.8. The reported data is relative to the tunnel coordinate system, Thus:

$$\beta = \beta_0 - \beta_{ref} \quad , \tag{3.16}$$

$$\frac{U}{V_*} = \frac{\bar{V}}{V_*} \cos(\alpha_0) \cos(\beta) \quad , \tag{3.17}$$

$$\frac{V}{\bar{V}_*} = \frac{\bar{V}}{\bar{V}_*} \sin(\alpha_0) \ , \tag{3.18}$$

$$\frac{W}{\bar{V}_*} = - \frac{\bar{V}}{\bar{V}_*} \cos(\alpha_0) \sin(\beta) \ , \tag{3.19}$$

$$\alpha = \tan^{-1} \left[\frac{\tan(\alpha_0)}{\tan(\beta)} \right] \ . \tag{3.20}$$

3.2 Positioning of a Body and the Probe

The leading edge of each body was placed at 5 m downstream of the throat along the centerline of the wind tunnel. The relatively long flow distance upstream of the test section resulted in a well developed boundary layer which changed very slowly with streamwise distance within the test section.

Each body was attached to the tunnel floor by means of a threaded rod that is affixed to the bottom of the body and protrudes through a slot in the tunnel floor. The leading edge and trailing edge fillets were placed along the centerline of the wind tunnel and a small amount of clay was used to hold the fillets in place. This method of fixing the bodies and fillets required no mounting fixtures or protrusions which might have disturbed the flow field.

The five-hole probe was inserted into the wind tunnel through a slot in a removable tunnel roof piece. The probe and traverse system were moved manually in the x or z direction to a desired measurement location, then the probe movement in the y direction

was controlled by the microcomputer. A reference metal block and a cathetometer were used to position the probe at the initial y location of 3.7 mm (0.144 in.) above the tunnel floor. The metal block is a cube whose side is 15.8 mm (0.624 in.). The positioning of the probe was done with the tunnel in operation because of a small deflection of the tunnel roof and floor due to the slightly reduced pressure in the tunnel with air flow. The centerline of the probe hole #1, as shown in Fig. 2.2, was aligned with the top surface of the block using the cathetometer. The probe was then brought down to the initial y location by the traverse system.

3.3 Probe Nulling

At the first vertical position in each traverse, an approximate yaw orientation, $\beta_o^*(y_1)$, determined by observing the pressure difference, $P_2 - P_3$, was input manually to the microcomputer. The microcomputer observed $P_2 - P_3$ at three different yaw orientation, $\beta_o^*(y_1) - 3^o$, $\beta_o^*(y_1)$, and $\beta_o^*(y_1) + 3^o$ to determine the true null position. Simple linear regression [92,93,95] was then implemented by the microcomputer and the true null position, $\beta_o(y_1)$, predicted using the estimated regression coefficients. $\beta_o(y_1)$ becomes an approximate yaw orientation at the next vertical position and the microcomputer performs the same process to find the new null position at the second vertical position, $\beta_o(y_2)$. The increments of motion in the y direction were adjusted such that the change in the null position, $\beta_o(y_i) - \beta_o(y_{i-1})$, was never more than 3^o. This simple approach produced good results because of the linear behavior of the yaw pressure coefficient about the null point as shown in Fig. 3.2.

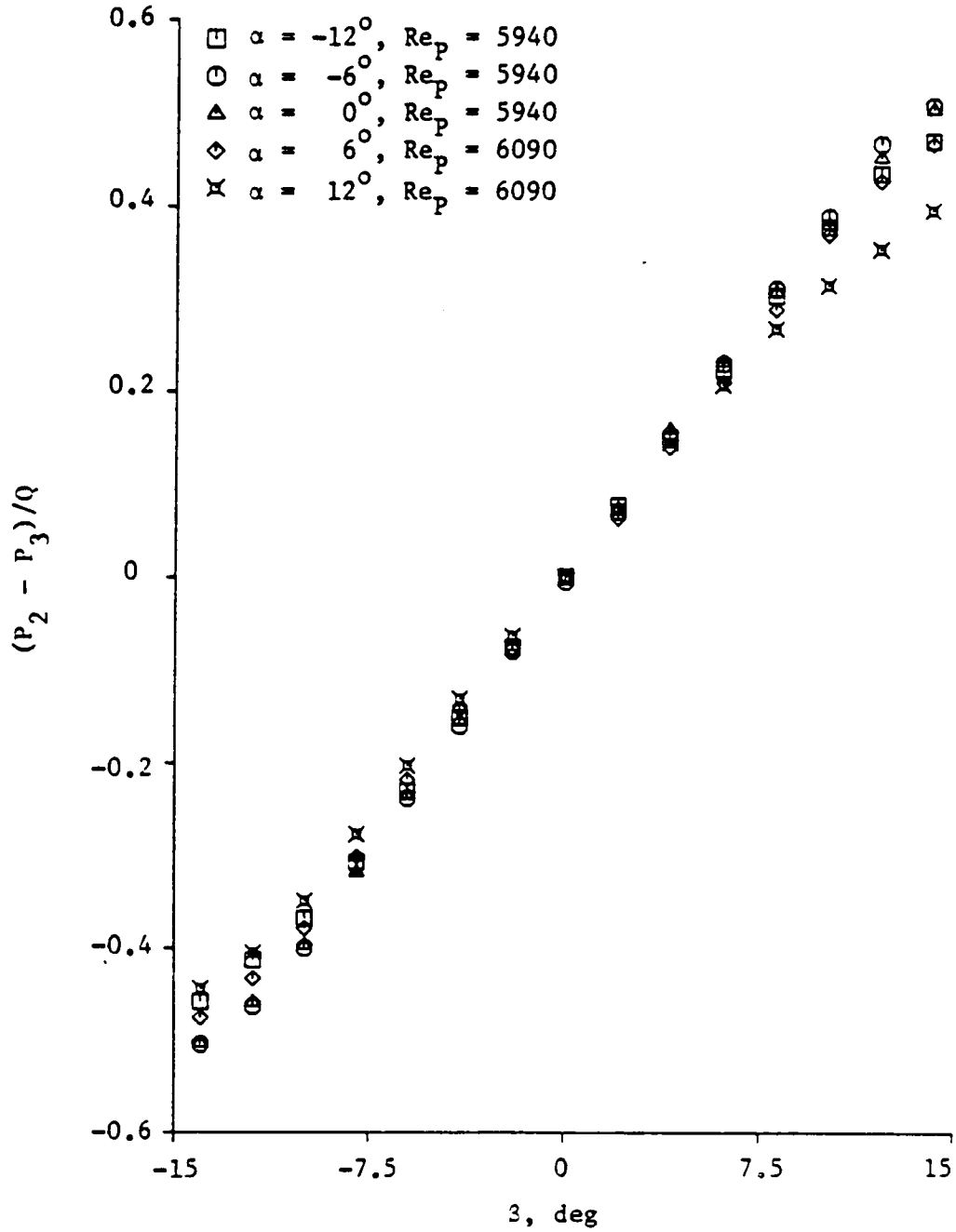


Fig. 3.2 Yaw Pressure Coefficient for the Five-Hole Probe [15]

3.4 Data Grid and Measurement Planes

Nonuniform transverse data stations were used because of the nature of the flow field. Transverse data stations were taken to be dense in the neighborhood of the center of the horseshoe vortex, so the number of transverse data stations varies depending on the location of the vortex center in each measurement plane. Data collection points in the y direction at each transverse station are also nonuniform, starting at y = 3.7 mm (0.144 in.) and ending at y = 140.8 mm (5.544 in.). In the turbulent boundary layers, small changes in position can produce large changes in the mean velocity. Thus, near the tunnel floor, y data points are dense, while out in the freestream they are relatively sparse. The y grid is fixed, so the data collection points in the y direction are identical for all transverse stations. A typical data collection grid is shown in Fig. 3.3.

Measurement planes for each body are shown in Figs. 3.4 through 3.10. All measurement planes are y-z planes (orthogonal to the x direction), except for a plane at the 9 percent chord position for the 1.5:1 elliptical nose body. Two planes were surveyed at the 9 percent chord for the 1.5:1 elliptical nose body, one orthogonal to the x direction and one orthogonal to the body surface. All y-z planes have a height of 150 mm (6 in.) and extend to 200 mm (8 in.) measured from the tunnel centerline. The 9 percent chord plane orthogonal to the body surface is 150 mm (6 in.) high, and extends out to 150 mm (6 in.) measured normal to the body.

3.5 Uncertainty Estimates

The method used to estimate uncertainties in the experimental results was the Kline and McClintock method for single-sample experiments [96-99]. This method is based on a

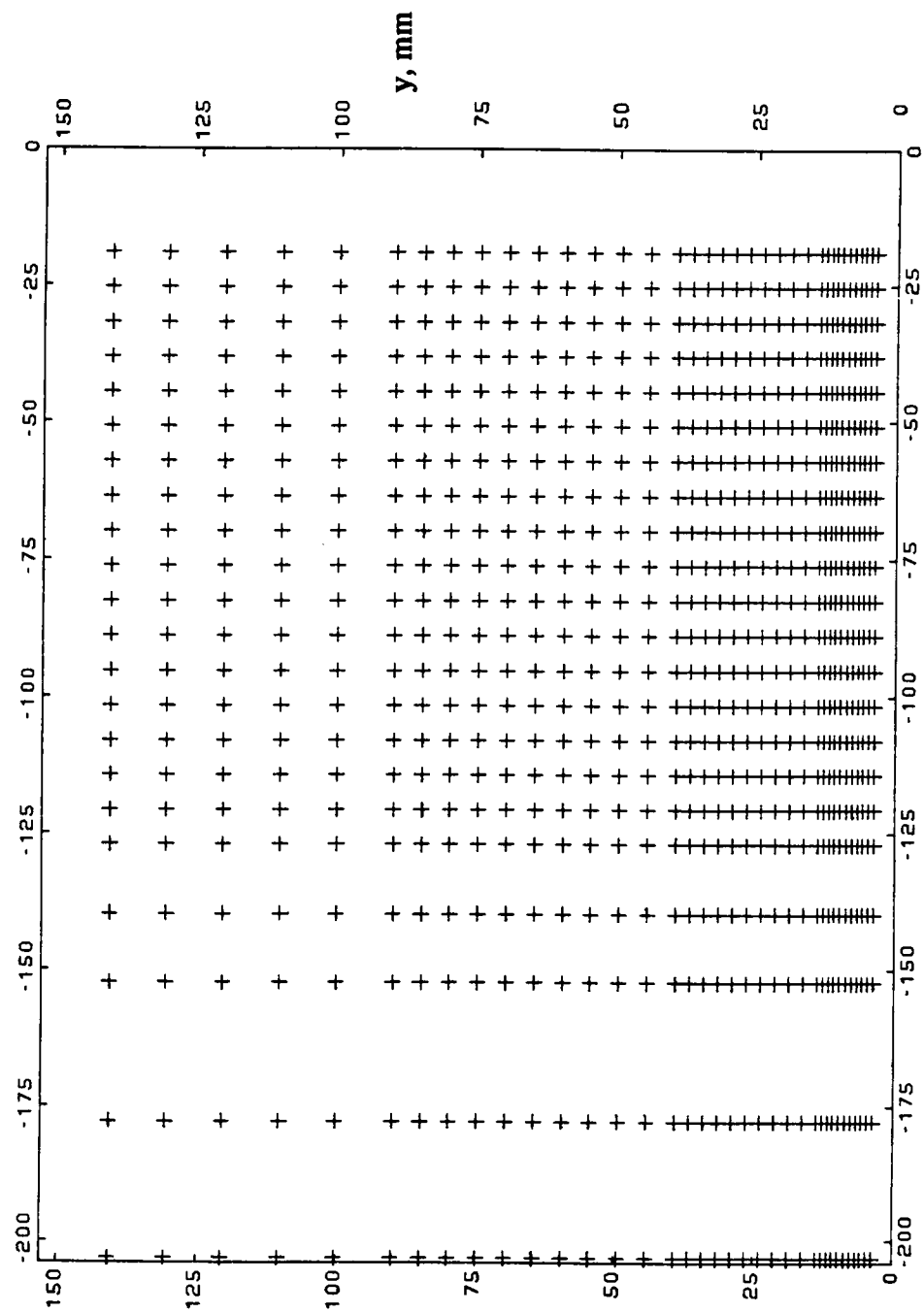


Fig. 3.3 Typical Data Collection Grid

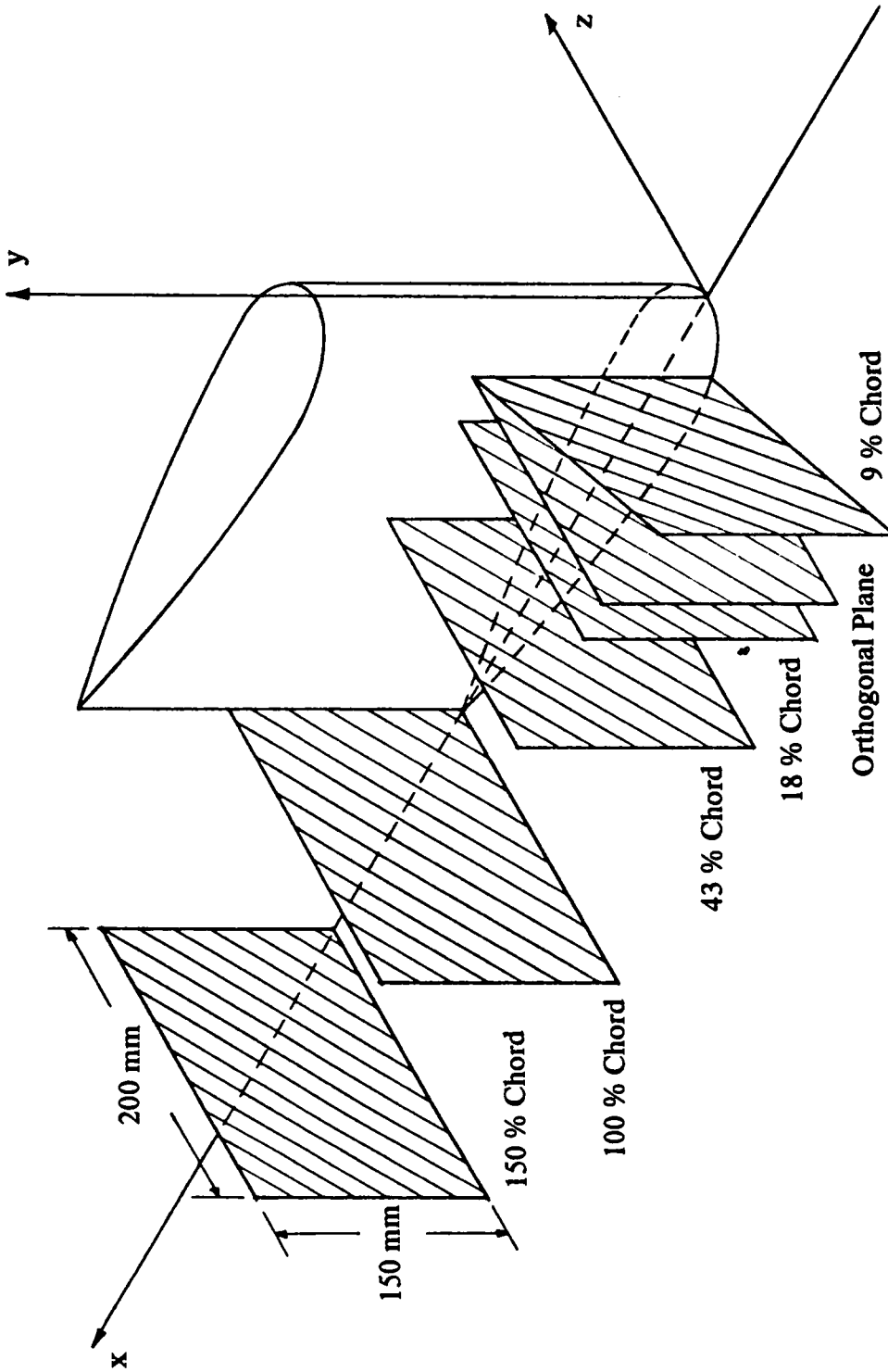


Fig. 3.4 Measurement Planes for the 1.5:1 Elliptical Nose Body

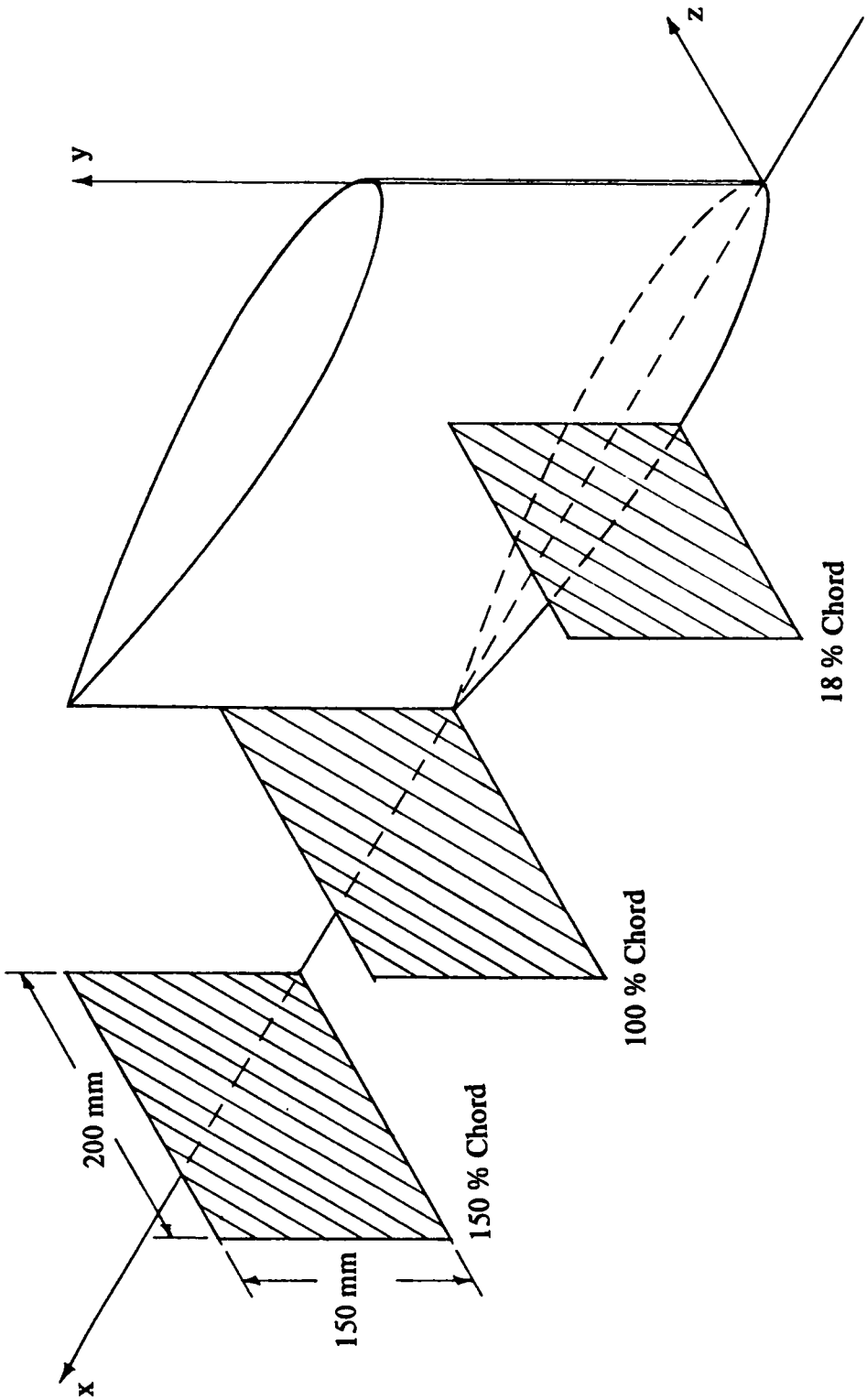


Fig. 3.5 Measurement Planes for the 4:1 Elliptical Nose Body

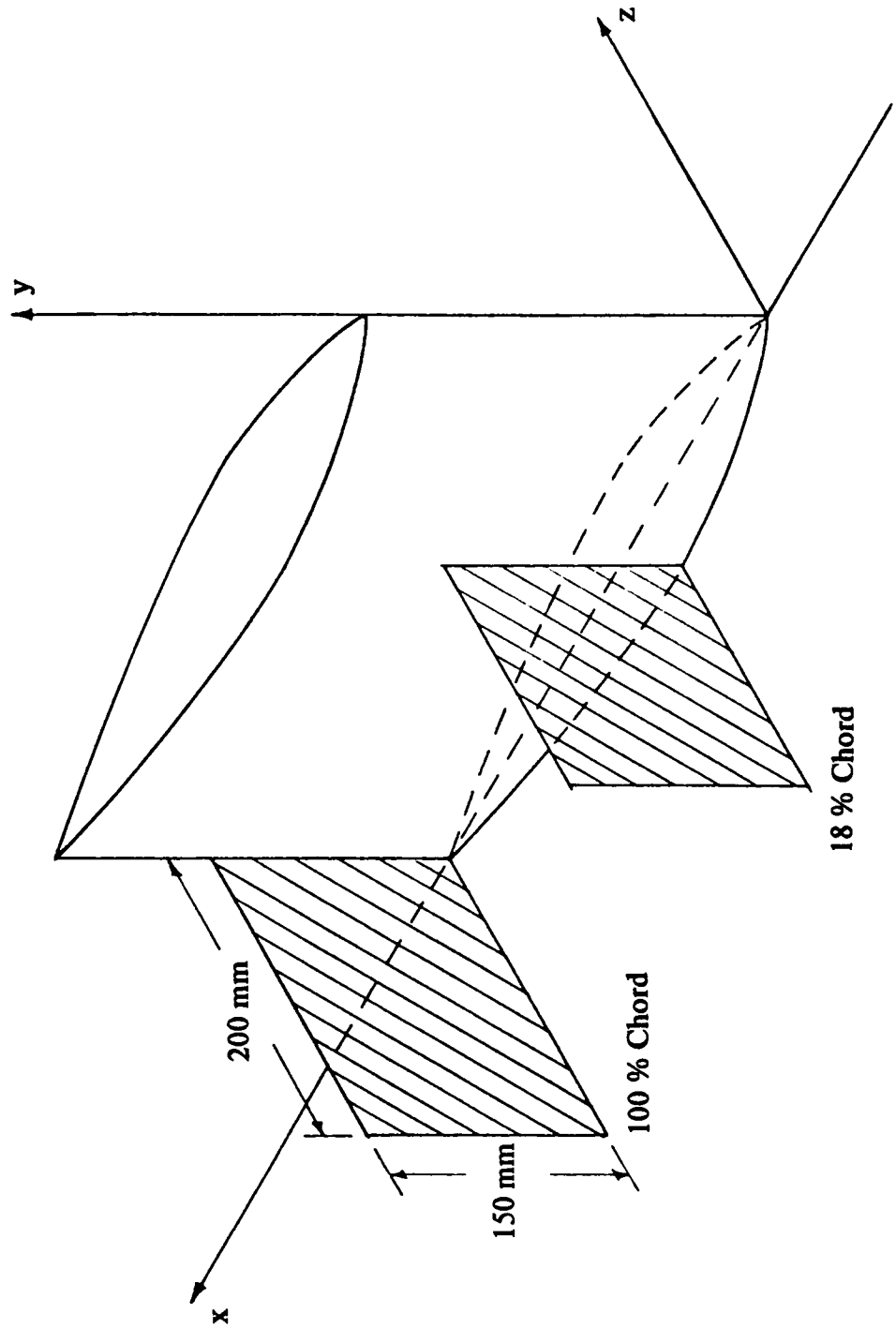


Fig. 3.6 Measurement Planes for the 4:1 Wedge Elliptical Nose Body

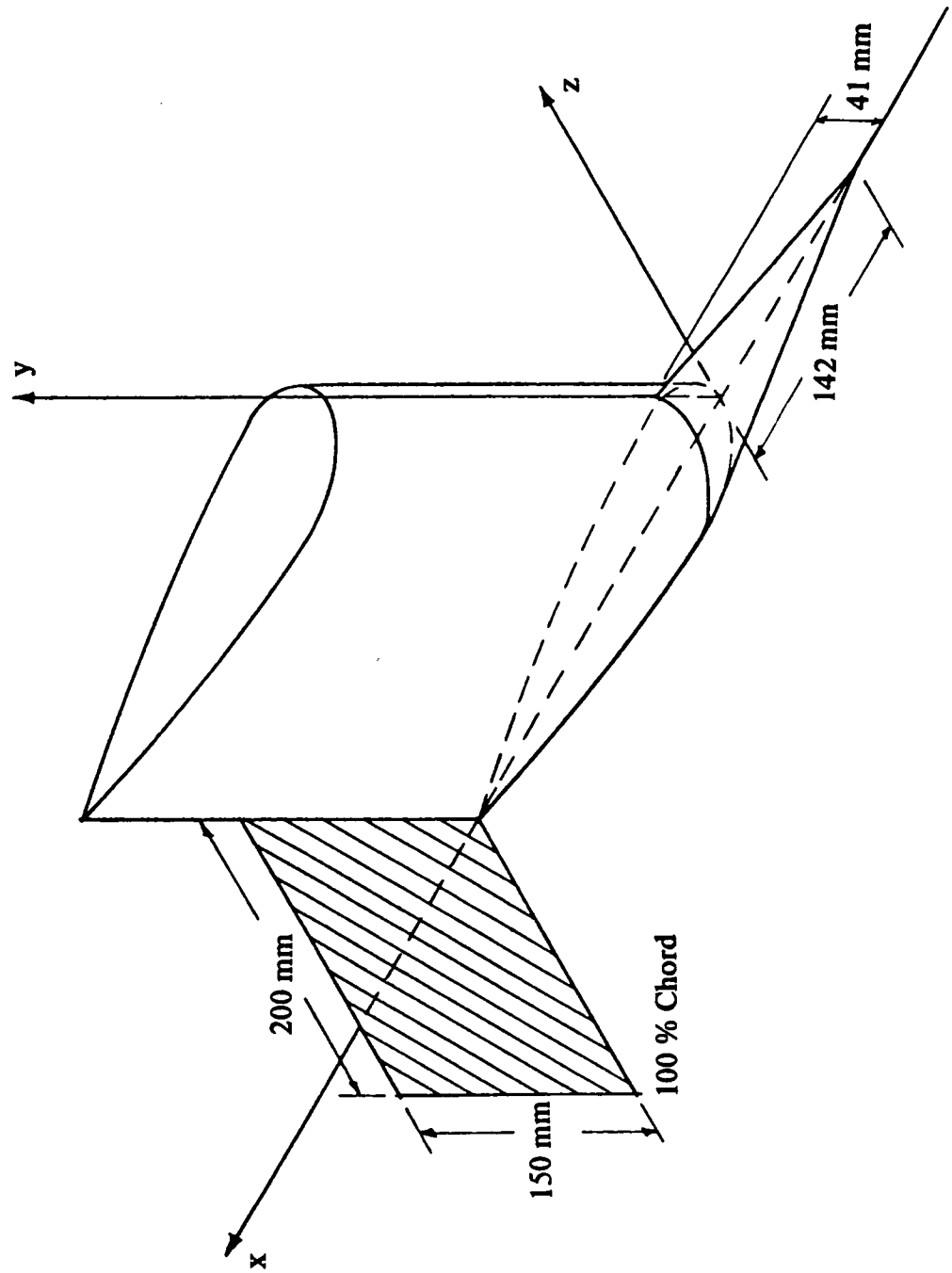


Fig. 3.7 Measurement Planes for the 1.5:1 Elliptical Nose Body with Fillet #1

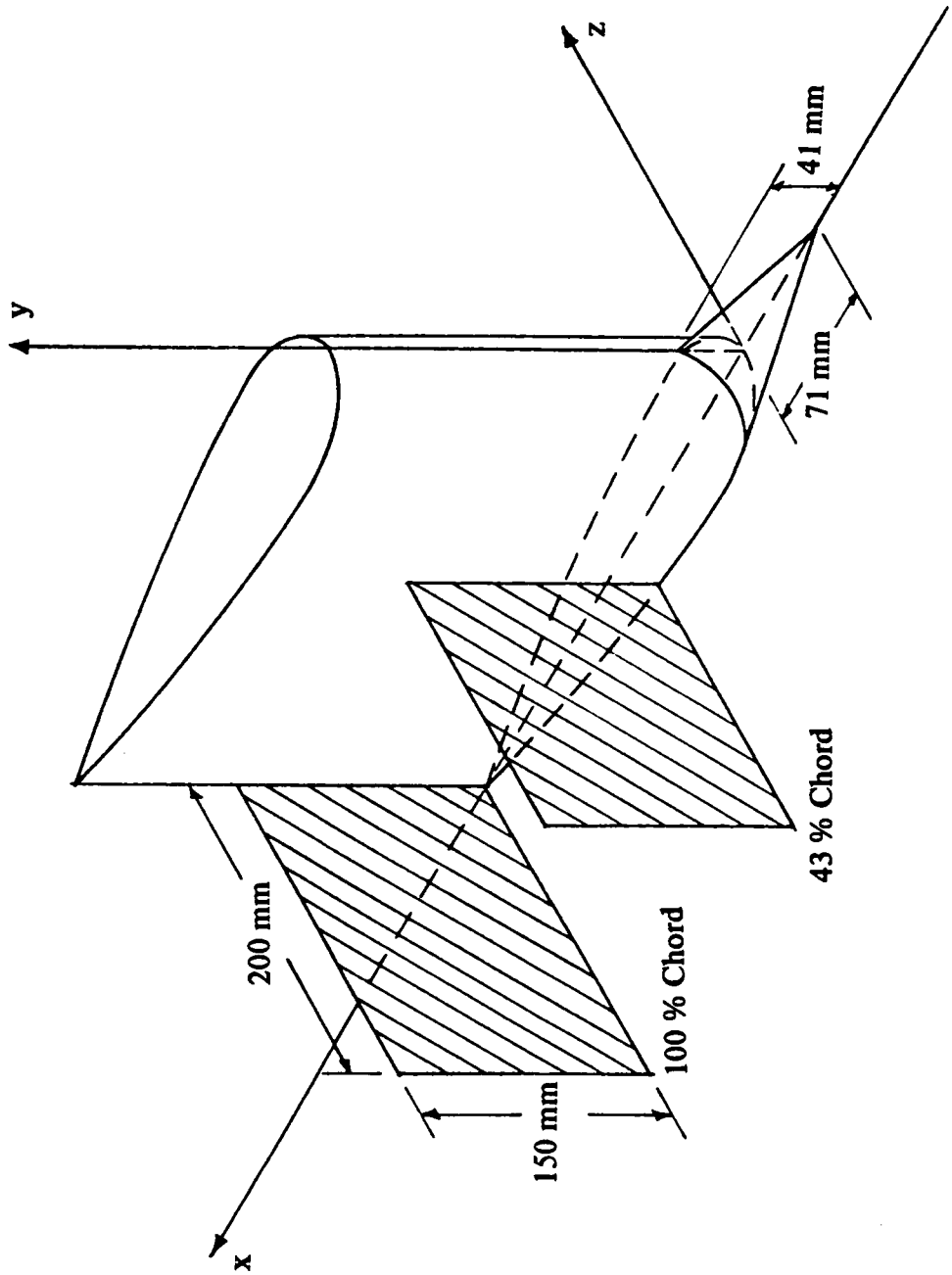


Fig. 3.8 Measurement Planes for the 1.5:1 Elliptical Nose Body with Fillet #2

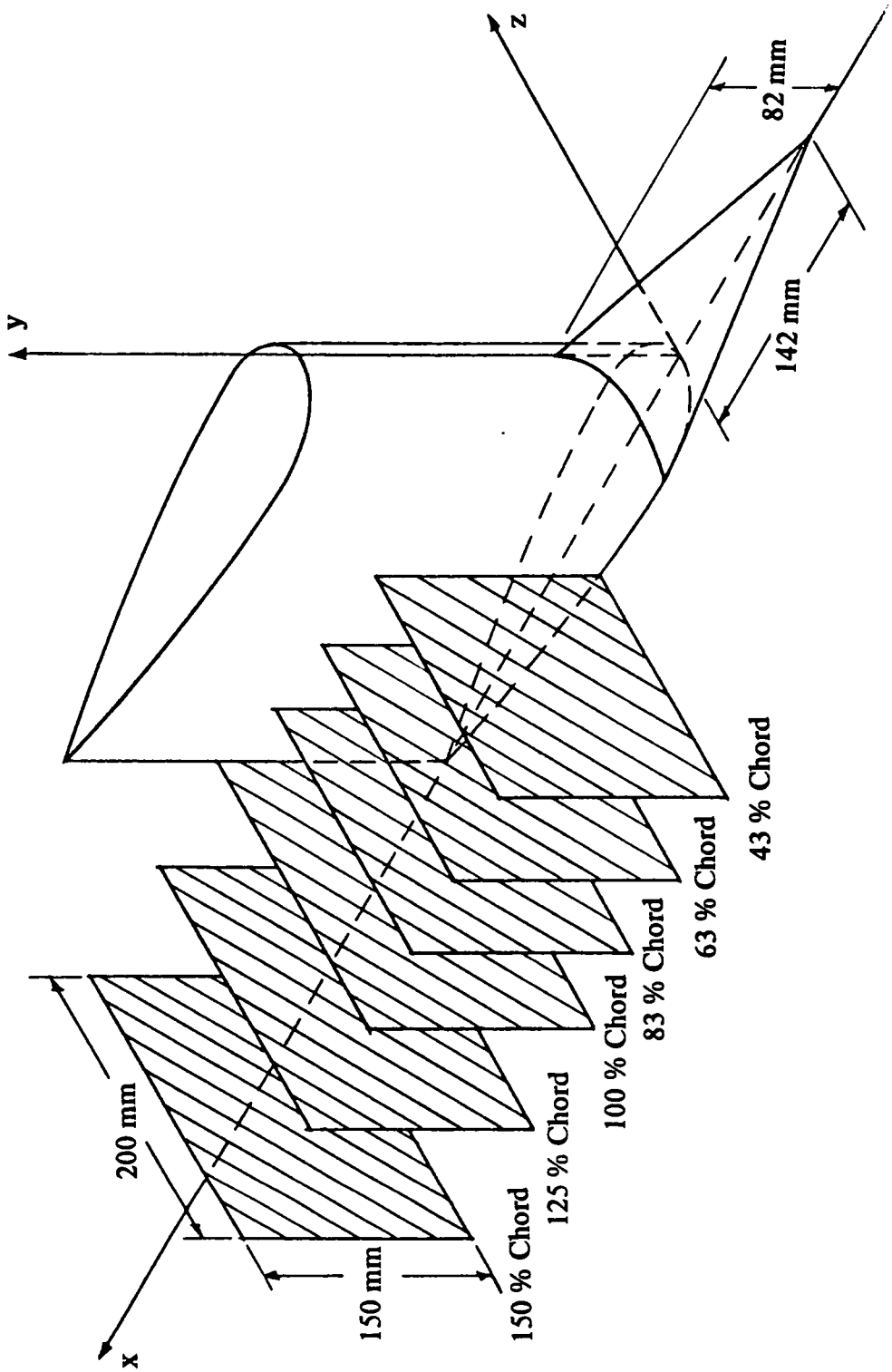


Fig. 3.9 Measurement Planes for the 1.5:1 Elliptical Nose Body with Fillet #3

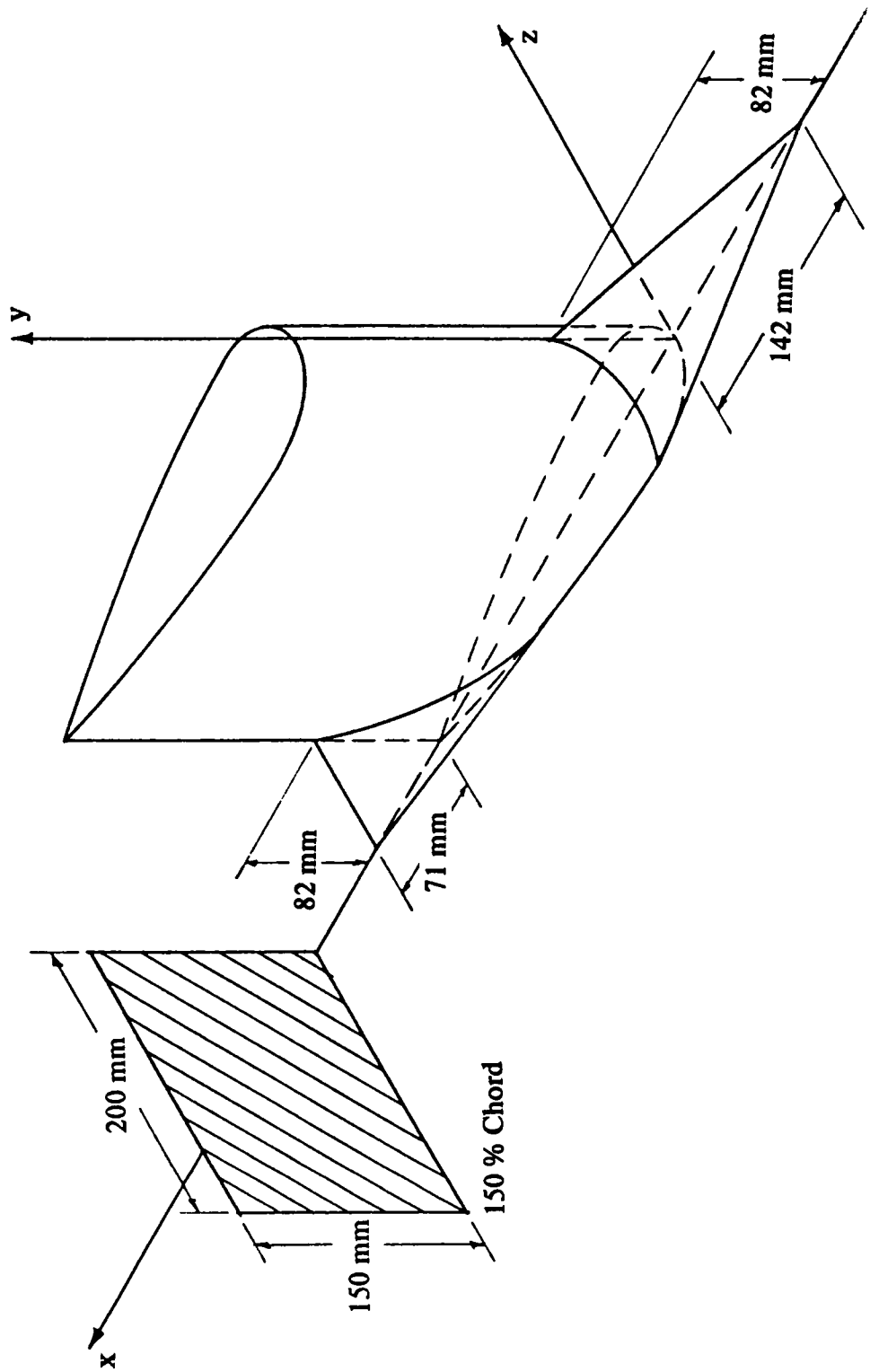


Fig. 3.10 Measurement Plane for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet

careful specification of the uncertainties in the various primary observations. For a result R as a given function of the measured variables $X_1, X_2, \ldots, X_n$, the uncertainty in the result is given by:

$$w_R = \left\{ \sum_{i=1}^{n} \sum_{j=1}^{n} \left[r_{x_i x_j} w_{x_i} w_{x_j} \frac{\partial R}{\partial X_i} \frac{\partial R}{\partial X_j} \right] \right\}^{\frac{1}{2}}, \tag{3.21}$$

where the uncertainty estimates, w_R and w_{x_i} for all i, are all given with the same odds. If the variables are independent, the estimated correlation coefficient, $r_{x_i x_j}$, is:

$$r_{x_i x_j} = \begin{cases} 0 \ , \ i \neq j \\ 1 \ , \ i = j \ , \end{cases} \tag{3.22}$$

and the estimated uncertainty becomes:

$$w_R = \left\{ \left[\frac{\partial R}{\partial X_1} w_1 \right]^2 + \left[\frac{\partial R}{\partial X_2} w_2 \right]^2 + \cdots\cdots + \left[\frac{\partial R}{\partial X_n} w_n \right]^2 \right\}^{\frac{1}{2}}. \tag{3.23}$$

For the general case described by Eq. 3.21, n(n+3)/2 pieces of information are required to estimate the uncertainty in the result. The required information includes n sensitivities (partial derivatives) of the result to the various observations, n estimated uncertainties in the observations, and n(n-1)/2 estimated correlation coefficients. The n sensitivities can be evaluated explicitly using the data reduction equations or approximated numerically with finite differences. Both approaches were used to obtain the reported

results. The n estimated uncertainties in the observations are based on 19 to 1 odds (95 percent confidence level).

For wind tunnel reference velocity measurements:

$$w_{T_\infty} = \pm 1^{\circ}C\,, \tag{3.24}$$

$$w_{P_\infty} = \pm 170\ Pa\,, \tag{3.25}$$

$$w_{Q_\infty} = \pm 1\ Pa\,, \tag{3.26}$$

and for the five-hole probe data:

$$w_{P_4 - P_5} = \pm \left[(0.5 + 0.0015 \left| P_4 - P_5 \right|)^2 + (2.5)^2 \right]^{\frac{1}{2}} Pa\,, \tag{3.27}$$

$$w_{P_1 - P_2} = \pm \left[(0.5 + 0.0015 \left| P_1 - P_2 \right|)^2 + (2.5)^2 \right]^{\frac{1}{2}} Pa\,, \tag{3.28}$$

$$w_{P_1 - P_{T,*}} = \pm \left[(0.5 + 0.0015 \left| P_1 - P_{T,*} \right|)^2 + (2.5)^2 \right]^{\frac{1}{2}} Pa, \tag{3.29}$$

$$w_{\beta_o} = \pm 0.2\ deg\,, \tag{3.30}$$

$$w_{\beta_{Ref}} = \pm 0.2\ deg\,, \tag{3.31}$$

$$w_{B_1} = \pm 2 \times 10^{-4}\,, \tag{3.32}$$

$$w_{B_2} = \pm 3 \times 10^{-4}\,\mathrm{deg}^{-1}, \tag{3.33}$$

$$w_{B_3} = \pm 4 \times 10^{-3}, \tag{3.34}$$

$$w_{B_4} = \pm 1.0 \times 10^{-4}\,\mathrm{deg}^{-1}, \tag{3.35}$$

$$w_{B_5} = \pm 1.3 \times 10^{-5}\,\mathrm{deg}^{-2}, \tag{3.36}$$

$$w_{B_6} = \pm 7.6 \times 10^{-7}, \tag{3.37}$$

$$w_{B_7} = \pm 6 \times 10^{-4}, \tag{3.38}$$

$$w_{B_8} = \pm 3 \times 10^{-5}\,\mathrm{deg}^{-1}, \tag{3.39}$$

$$w_{B_9} = \pm 2 \times 10^{-5}\,\mathrm{deg}^{-2}, \tag{3.40}$$

$$w_{B_{10}} = \pm 7 \times 10^{-8}\,\mathrm{deg}^{-4}. \tag{3.41}$$

The estimated uncertainties in the calibration coefficients were obtained from the least squares analysis of the calibration data [91-95]. Only the correlations between the calibration coefficients were recognized. The estimated correlation coefficients, from the least squares analysis, can be found in Harsh [15].

3.6 Flow Visualization

An oil film technique described by Squire, et al. [100] was used to visualize the surface flows on the flat floor of the wind tunnel and on the bodies. This technique requires the application of a thin film of oil containing an indicator to the surfaces of the wind tunnel floor and the bodies. The driving force causing the movement of oil film is the shear stresses of the air flow on the oil film. The shear stresses redistribute the oil film forming the flow patterns..

A mixture of 10.7 g of titanium dioxide (TiO_2), 30 ml of diesel fuel, and 2 drops of oleic acid was used for the oil film. The titanium dioxide was first sifted through a 60 mesh (250 μm square openings) screen to eliminate large agglomerations of particles. Diesel fuel was used for the vehicle because of its vapor pressure, viscosity, and ease of application and clean-up. Oleic acid is a dispersing agent. The mixture was sprayed onto the surfaces after all surfaces were uniformly wetted with a light coating of diesel fuel. Good patterns were obtained after approximately ten minutes of tunnel operation.

Both the flat floor of the wind tunnel and the bodies were covered with removable coatings to preserve the trace patterns. The tunnel floor was covered with a 0.91 m wide, 1.22 m long, 0.81 mm thick piece of tempered aluminium sheet metal. The leading edge of this thin sheet was hand finished into a knife edge to minimize the roughness effect on the boundary layer. Bodies were covered with a 50 μm thick acetate sheet. The aluminium and acetate sheet were held in place with double-sided tape and painted flat black to enhance the visibility of the white titanium dioxide particles. After a test was completed, these sheets were allowed to dry and were removed from the surfaces and painted with clear acrylic lacquer to preserve them for later consideration. All tests were video-taped to document the development of the flow patterns with time.

4. RESULTS AND DISCUSSIONS

4.1 Flow Visualization

The surface flows on the flat floor of the wind tunnel and on the vertical sides of the three bodies, and the surface flows on the flat floor of the wind tunnel for the 1.5:1 elliptical nose body with fillets were visualized using an oil-film technique. These studies included:

(1) the floor surface flow visualization of the 1.5:1 elliptical nose body,
(2) the floor surface flow visualization of the 4:1 elliptical nose body,
(3) the floor surface flow visualization of the 4:1 wedge elliptical nose body,
(4) the floor surface flow visualization of the 1.5:1 elliptical nose body with fillet #3,
(5) the floor surface flow visualization of the 1.5:1 elliptical nose body with fillet #3 and the trailing edge fillet,
(6) the surface flow visualization on the vertical sides of the 1.5:1 elliptical nose body,
(7) the surface flow visualization on the vertical sides of the 4:1 elliptical nose body,
(8) the surface flow visualization on the vertical sides of the 4:1 wedge elliptical nose body.

These studies were conducted at the standard test conditions described in Table 2.1. Based on the maximum thickness of the body (71 mm) and the freestream velocity at the test section without the body in place, standard conditions correspond to a body Reynolds number of 102,460. The flow visualization studies made by Harsh [15] with the teardrop body will be compared with the present studies. For this purpose, the test conditions of the

present studies were maintained identical to those of Harsh's studies. The test conditions for both studies correspond to a unit Reynolds number of 1,340,000 per meter at the tunnel throat.

The oil traces are material lines at the flat floor. Since the flow in this investigation was steady, these lines represent the floor streamlines. The real time smoke visualization [101] showed large fluctuations in the junction vortex flow, but instantaneous streamlines corresponding to these fluctuations cannot be shown by the oil-film technique. The traces seen in the flow visualizations of the present study must be regarded as the time mean streamlines. These flow visualizations reveal much useful information about the flow and are an important part of this investigation.

The floor surface flow visualizations for the 1.5:1 elliptical nose body are shown in Fig. 4.1 through 4.3 and, for comparison, the floor surface flow visualizations of the teardrop body taken from Harsh [15] are shown in Figs. 4.4-4.5. Qualitatively, the floor surface flow visualization of the 1.5:1 elliptical nose body appears to be symmetric about the tunnel centerline and shows similar major features as seen in the floor surface flow visualization of the teardrop body. Figure 4.3 is a schematic diagram of Fig. 4.1 emphasizing the major features of the floor surface flow. Point A, approximately 42 mm upstream of the leading edge, on the tunnel centerline, is a singular saddle point of separation. The incoming boundary layer separates at this point due to the pressure gradient existing in the neighborhood of the leading edge. The heavy accumulation of white titanium dioxide particles in the vicinity of the singular saddle point of separation indicates that the wall shear stresses are low in this area. Several studies [7-13] discuss the number of separation and attachment points upstream of such a body. Hunt, et al. [7] and Baker [8] reported a pair of separation and attachment lines which is modeled as a four vortex system as shown in Fig. 1.2 and Fig. 1.3. Sedney and Kitchens [102] found the

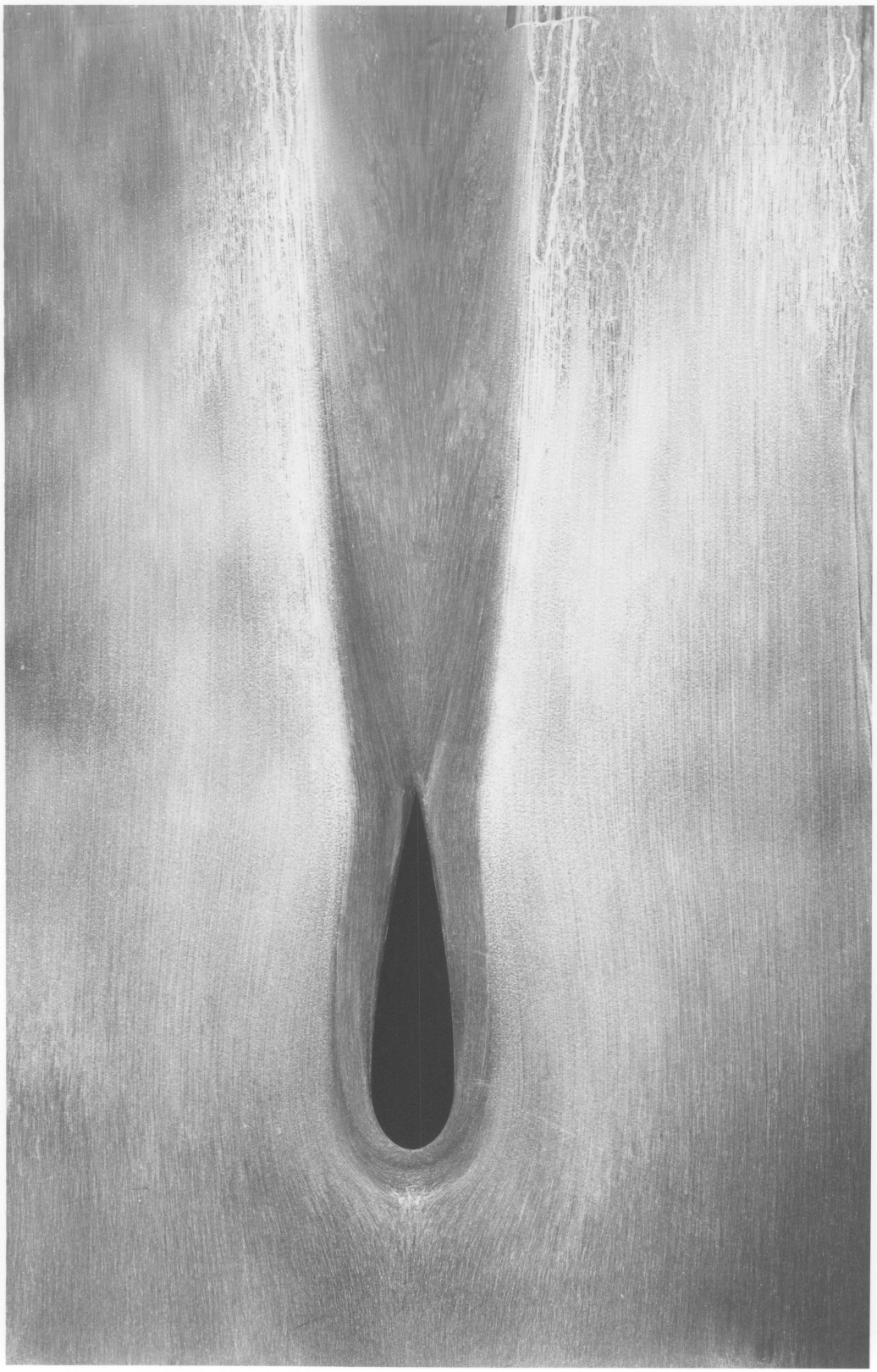


Fig. 4.1 Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 1.5:1 Elliptical Nose Body

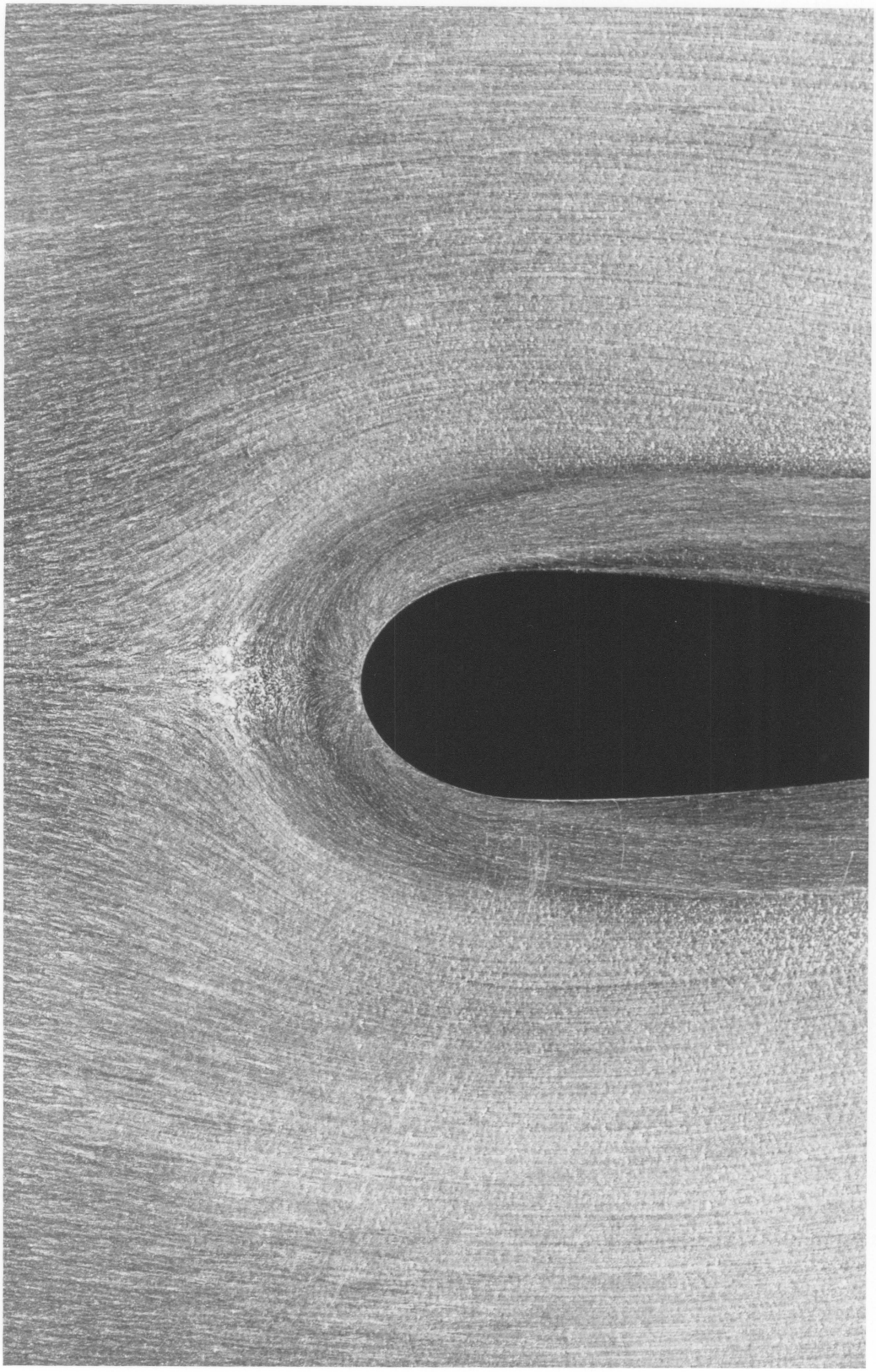


Fig. 4.2 Enlarged View of the Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 1.5:1 elliptical Nose Body

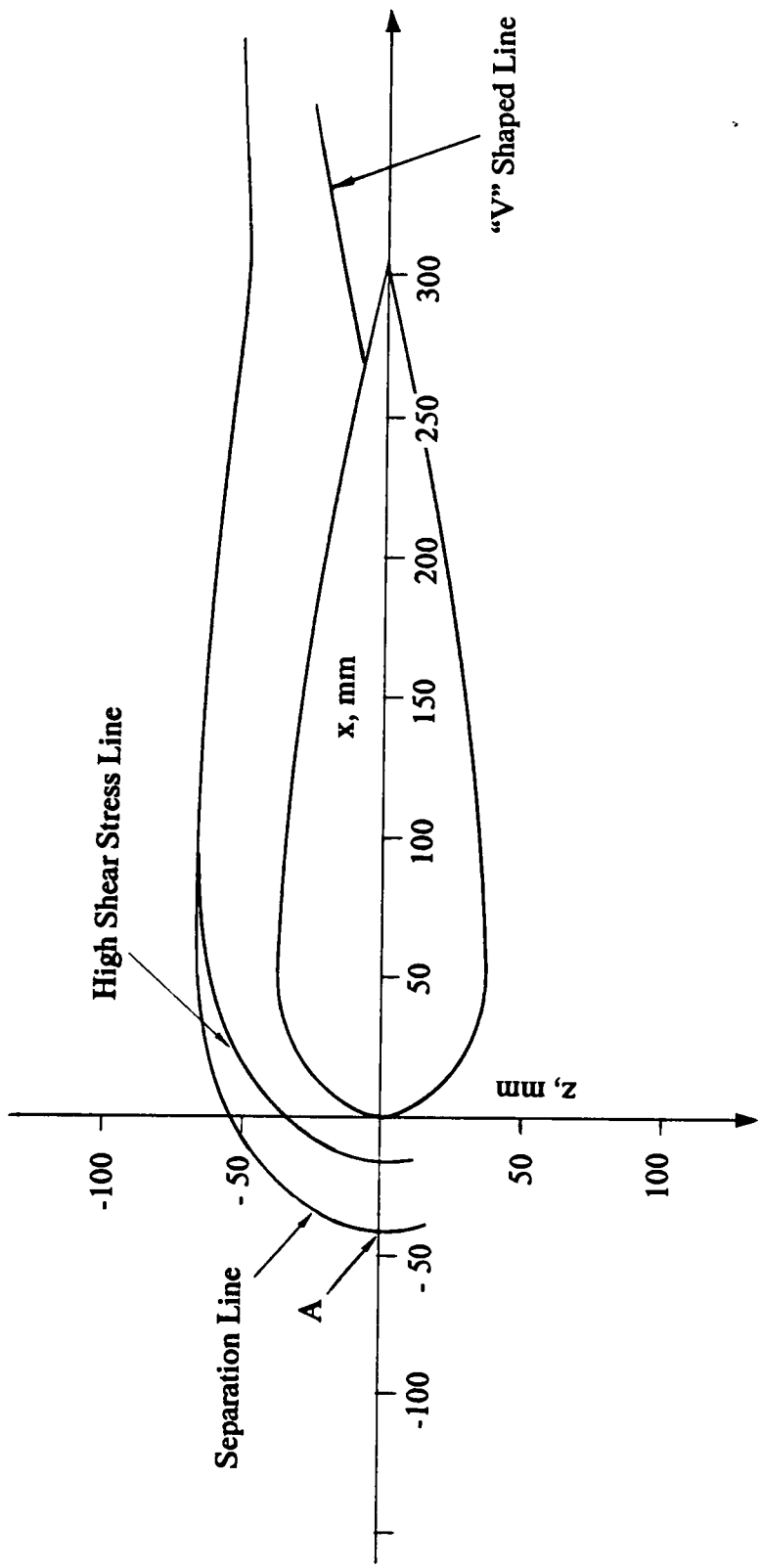


Fig. 4.3 Schematic Diagram of the Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 1.5:1 Elliptical Nose Body

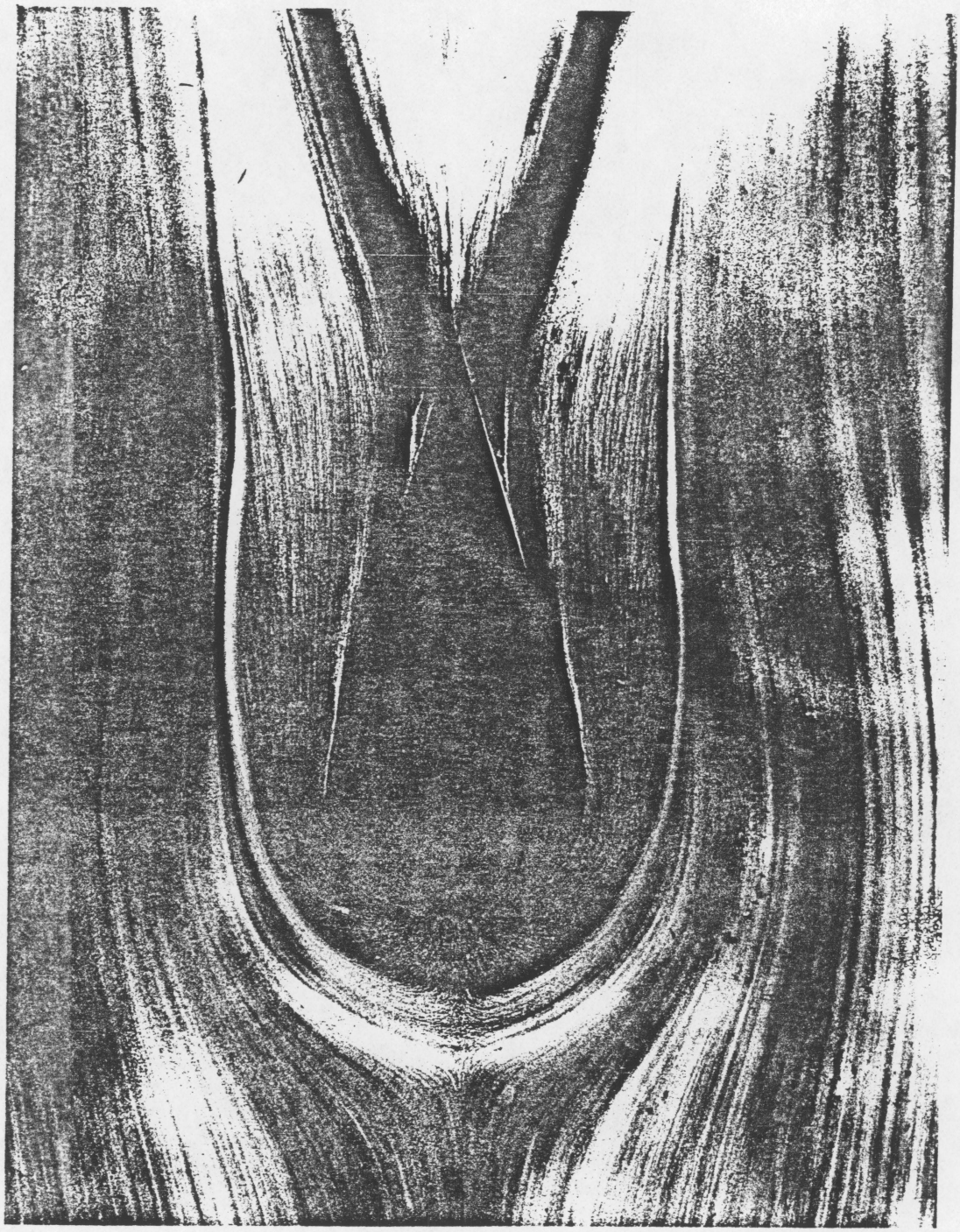


Fig. 4.4 Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the Teardrop Body [15]

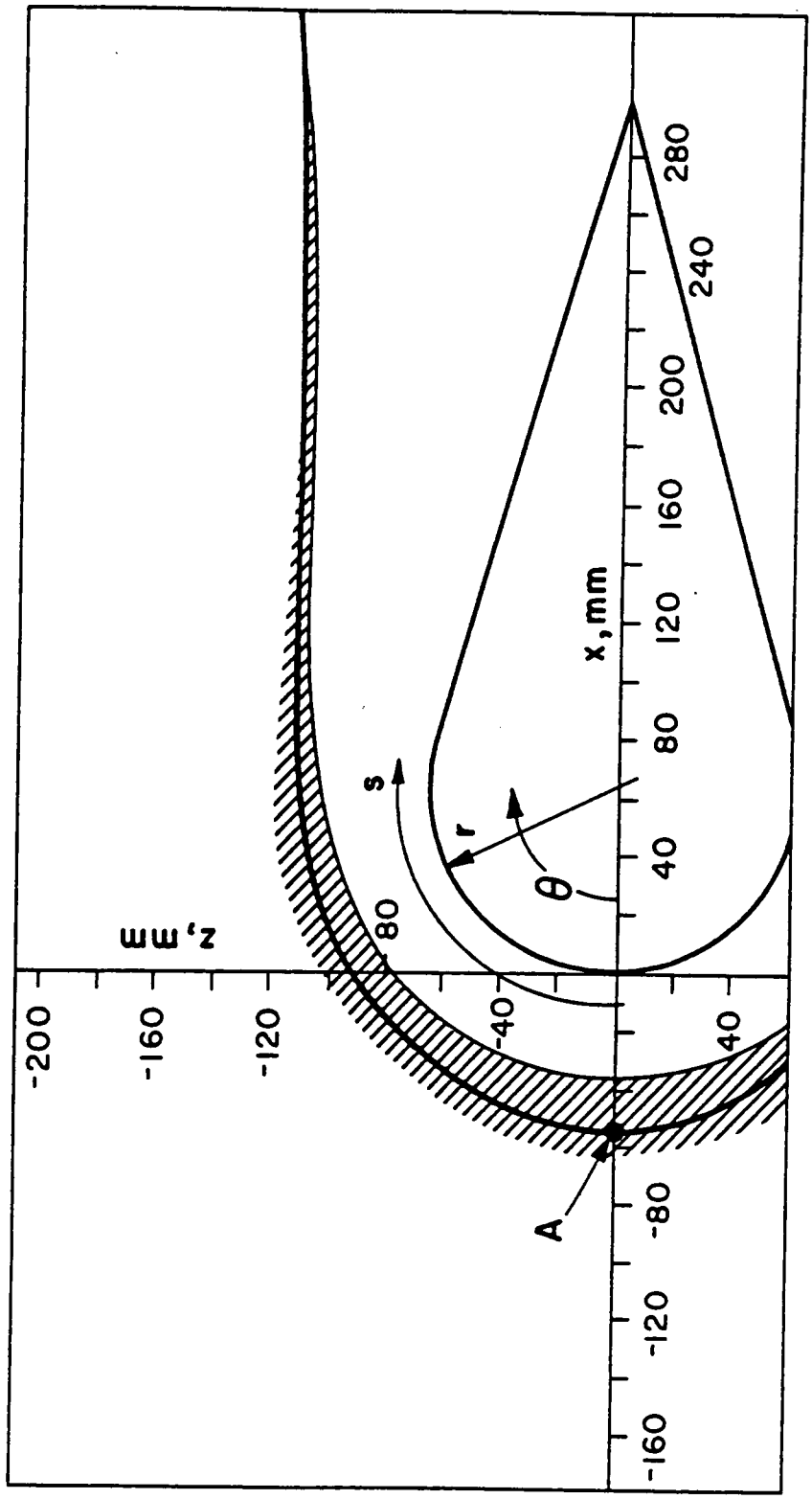


Fig. 4.5 Schematic Diagram of the Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the Teardrop Body [15]

number of vortex pairs and corresponding separation and attachment lines was Reynolds number dependent for their supersonic turbulent flows. Dickinson [33] reported the presence of a small vortex, which counter-rotates with respect to the primary vortex, in the extreme corner of the junction between the leading edge and the flat floor, based on the floor surface oil-dot flow visualization for a geometrically similar body. Sung and Yang [44] simulated the turbulent junction vortex flow for a geometrically similar body and a flat floor by solving the steady-state three-dimensional incompressible Reynolds-averaged Navier-Stokes equations. They also reported this counter-rotating corner vortex based on their numerical solution. However, it is difficult to find this counter-rotating corner vortex in the floor surface flow visualization shown in Fig. 4.1.

A three-dimensional separation surface intersects with the flat floor at a separation line. The line emanating from point A is the separation line which wraps around the body and trails off downstream. To the oil film on the floor, the separation line is the location of a convergence of floor streamlines which are unable to leave the floor, hence oil accumulates along this line. The accumulated oil eventually runs downstream along the separation line. This separation line divides the floor surface flow into two regions, an interior and an exterior region. Any floor traces originating upstream of the separation point cannot get across this separation line to the interior region.

Just downstream of point A, a distinct line is visible across the tunnel centerline. This line wraps around the body leading edge and merges with the separation line alongside the body. The floor surface flow visualization of the teardrop body also shows this distinct line (see Fig. 4.4). This line is not a separation line as the streamlines clearly pass through it. Harsh [15] found that this line corresponded to a relative minimum in the floor pressure distribution. During the flow visualization studies it was observed that the portion of the floor between this line and the body dried much more rapidly than the floor outside this

line. This suggests that this line marks the boundary between the higher wall shear regions near the body and the lower wall shear regions outside this line. This line will be referred to as the high shear stress line. One of the graphical results presented in later sections is the x-component vorticity distribution. For the 1.5:1 elliptical nose body, the x-component vorticity distribution at measurement planes around the body show the primary horseshoe vortex. The projection of the center of this primary horseshoe vortex onto the floor approximately corresponds with the high shear stress line. This suggests that the high shear stress line is believed to be the projection of the primary horseshoe vortex center onto the floor.

Another noticeable feature is the "V" shaped lines at the body trailing edge. These lines spring from near the trailing edge (approximately 30 mm upstream of the trailing edge) on each side of the body and trail into the wake. These "V" shaped lines at the trailing edge were also seen in the flow visualizations by Young [22] and Dickinson [33] in their junction flow studies. Young suggested that these lines have their origin in the counter-rotating corner vortex relative to the primary vortex at the leading edge. Dickinson also reported that these "V" shaped lines were caused by the counter-rotating corner vortex at the leading edge as it carries oil into the corner of the junction and leaves the body at the trailing edge. Dickinson suggested this because his x-component vorticity distribution at the planes alongside the body showed vorticity with opposite sign to the primary vorticity in the extreme corner of the junction, indicating the presence of the counter-rotating corner vortex. The x-component vorticity distribution of the present study at the 100 percent chord plane (see Section 4.3.5) shows a small corner vortex which corresponds to these "V" shaped lines. Also, the x-component vorticity distribution at the 150 percent chord plane shows a vortex whose center is consistent with the "V" shaped line. However, the small vortex seen in the x-component vorticity distributions in this study is co-rotating

relative to the primary horseshoe vortex. Hence the "V" shaped lines in the present study cannot be attributed to the small counter-rotating corner vortex originated at the body leading edge.

Sung and Yang [44] generated a floor oil-dot flow visualization using their numerical solution obtained by solving the Reynolds-averaged Navier-Stokes equations. In their flow visualization, a corner separation was seen a little upstream of the trailing edge. This corner separation induces a corner separation vortex. Based on their numerical solution, Sung and Yang reported that this corner separation vortex near the trailing edge co-rotates with respect to the primary horseshoe vortex. It is believed that the "V" shaped lines seen near the trailing edge in the present study are the projection of the centers of these corner separation vortices onto the floor. A strong scouring effect caused by the downwash of the wake of the body can be seen inside this "V" pattern.

The floor surface flow visualization of the 1.5:1 elliptical nose body shows essentially every major feature seen in the floor surface flow visualization of the teardrop body. This indicates that this body produces a fairly strong secondary flow despite of a reduction of almost 50 percent in the body thickness compared with the teardrop body.

The floor surface flow visualizations of the 4:1 elliptical nose body are shown in Figs. 4.6-4.7. Although the separation line and the high shear stress line can be seen near the leading edge, around the body they are not seen as clearly as those in Fig. 4.1. The singular saddle point of separation moved closer to the leading edge, about 20 mm upstream of the leading edge. Since a vortex is formed between the separation point and the body leading edge, the closer separation point suggests that a smaller vortex is formed. This is confirmed by experimental results (see Section 4.4.1) which show a smaller vorticity region at the maximum thickness plane for the 4:1 elliptical nose body than for the

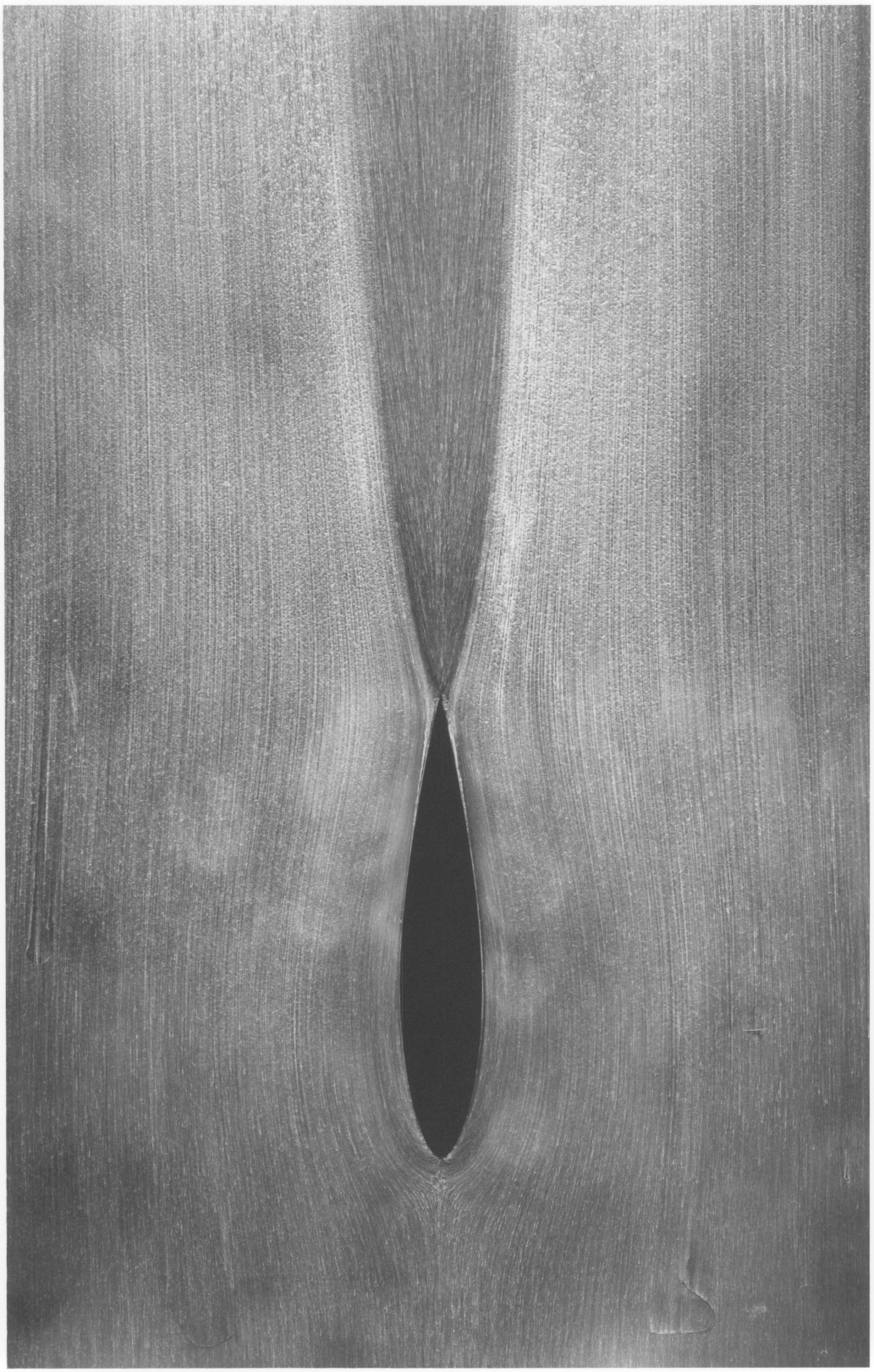


Fig. 4.6 Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 4:1 Elliptical Nose Body

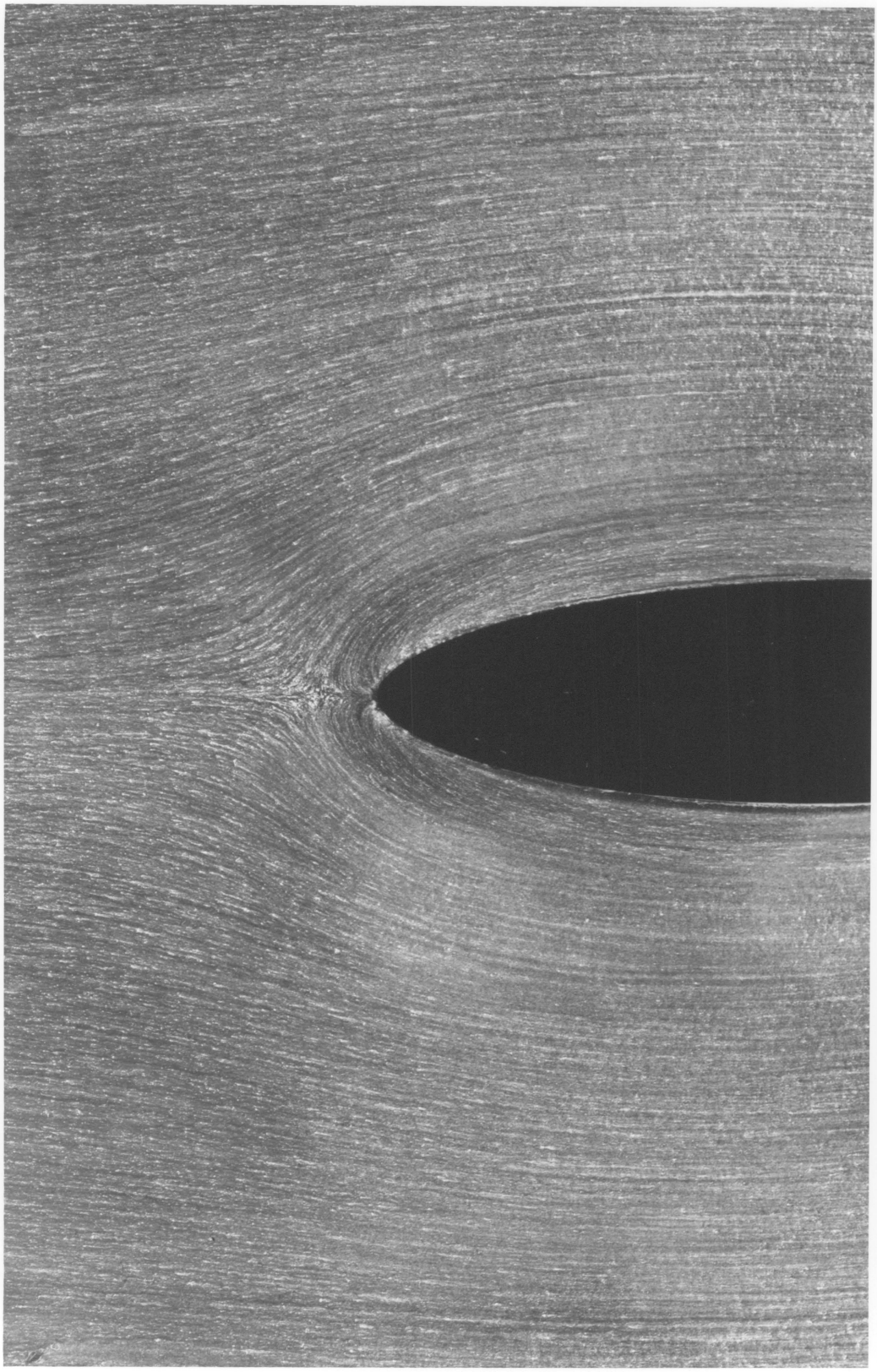


Fig. 4.7 Enlarged View of the Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 4:1 Elliptical Nose Body

1.5:1 elliptical nose body. The "V" shaped lines at the trailing edge are seen more clearly due to the absence of high shear region around the body.

Figures 4.8-4.9 show the floor surface flow visualizations of the 4:1 wedge elliptical nose body. There are no major differences between the floor surface flow visualization of the 4:1 wedge elliptical nose body and the floor surface flow visualization of the 4:1 elliptical nose body. The separation line moved even closer to the leading edge, approximately 10 mm upstream of the leading edge. Again, the separation line and the high shear stress line are not clearly seen around the body. Consequently, there is no clear distinction between a high wall shear and a low wall shear regions. The high shear stress line is not seen distinctly even near the leading edge, suggesting that the 4:1 wedge elliptical nose body generates an even weaker vorticity than the 4:1 elliptical nose body. This is confirmed by experimental results which will be discussed in Section 4.4.2.

The floor surface flows of the 1.5:1 elliptical nose body with fillet #3 are shown in Figs. 4.10-4.11. The leading edge flow separation seen upstream of the earlier bodies does not appear to be present. The fillet causes a downwash and this downwash wraps around the body as it meets the floor. This downwash is visualized as the arc-shaped traces around the maximum thickness location on both sides of the body. These traces closely follow the body contour from the maximum thickness location to near the trailing edge. The "V" shaped lines leave the body a little further upstream of the trailing edge (60 mm upstream of the trailing edge) than for the previous bodies. This is likely caused by the longer chord length at the floor due to the attachment of fillet #3 at the leading edge. Experimental results show that the primary horseshoe vortex is not seen alongside the body, and this is consistent with the absence of the high shear stress line around the body. The experimental results for fillet #3 are discussed in Section 4.5.3.

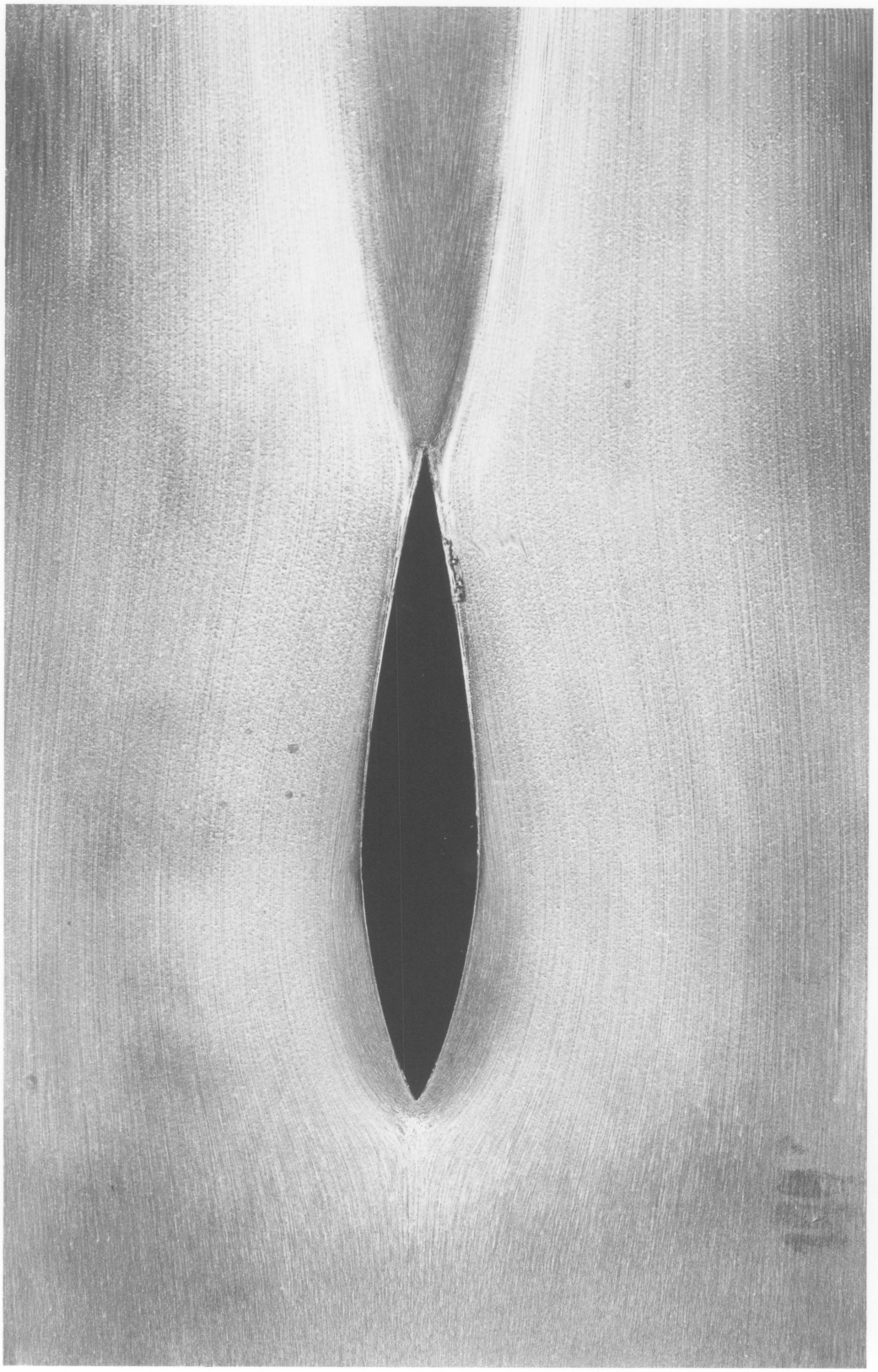


Fig. 4.8 Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 4:1 Wedge Elliptical Nose Body

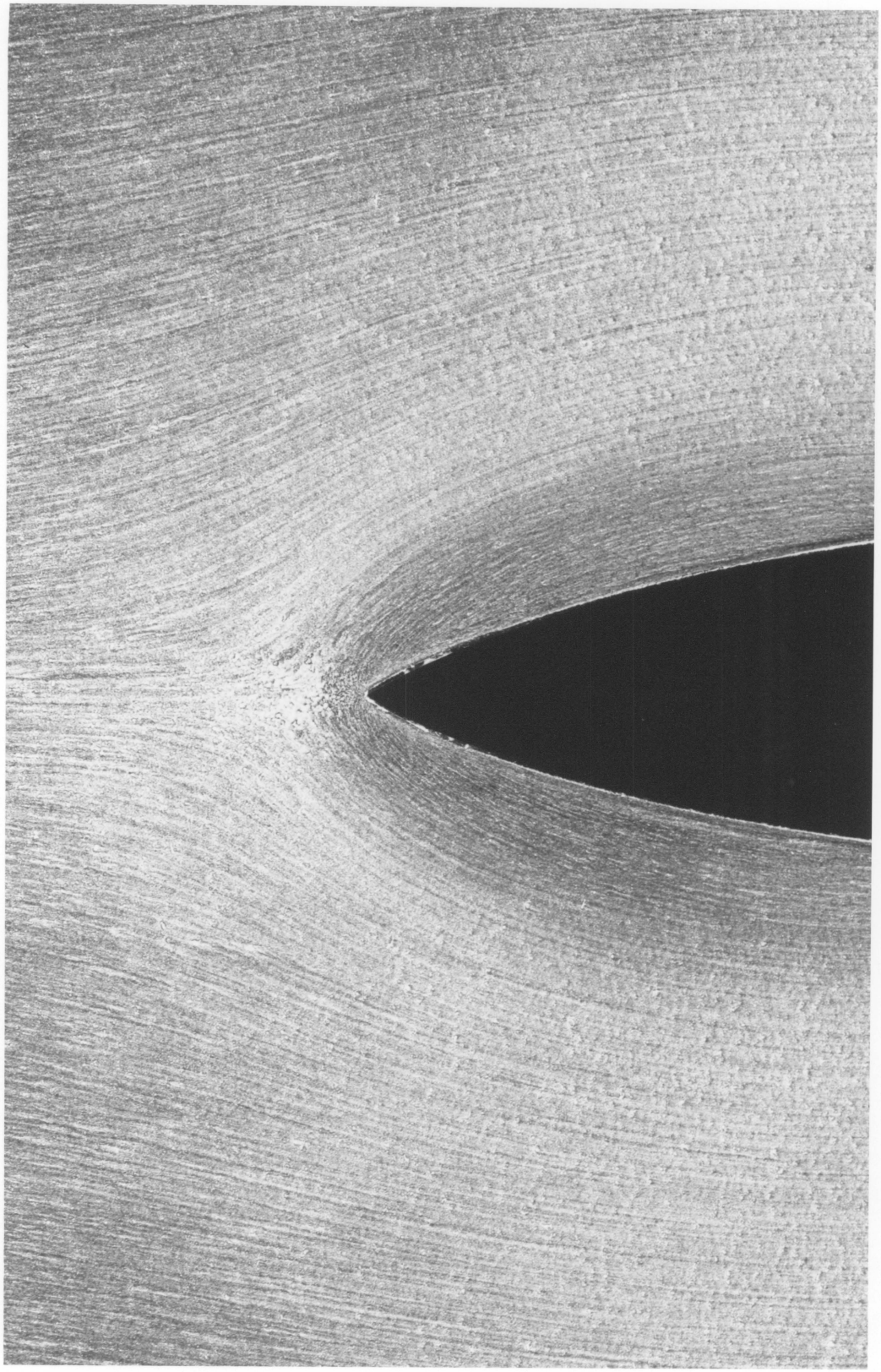


Fig. 4.9 Enlarged View of the Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 4:1 Wedge Elliptical Nose Body

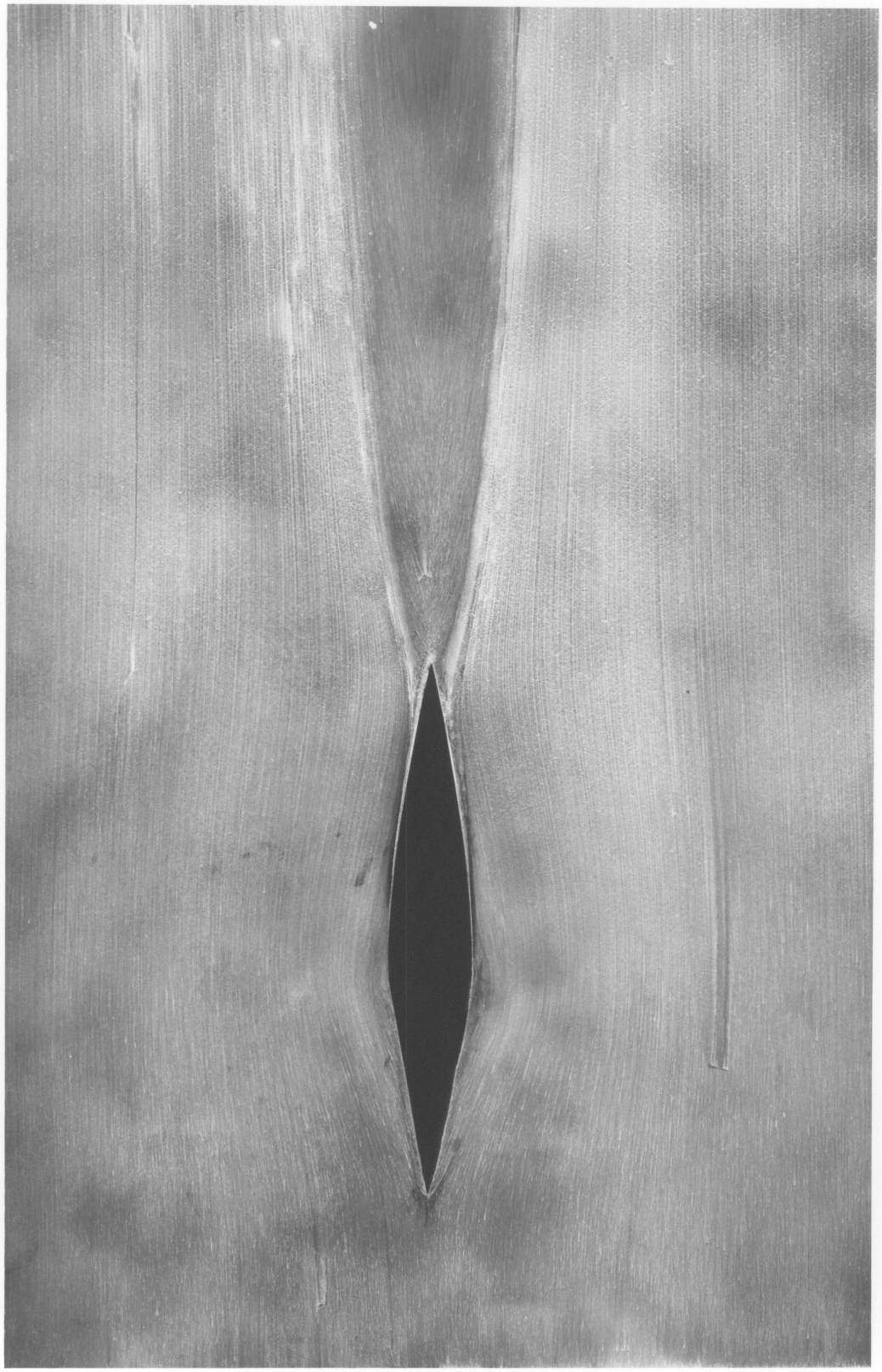


Fig. 4.10 Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 1.5:1 Elliptical Nose Body with Fillet #3

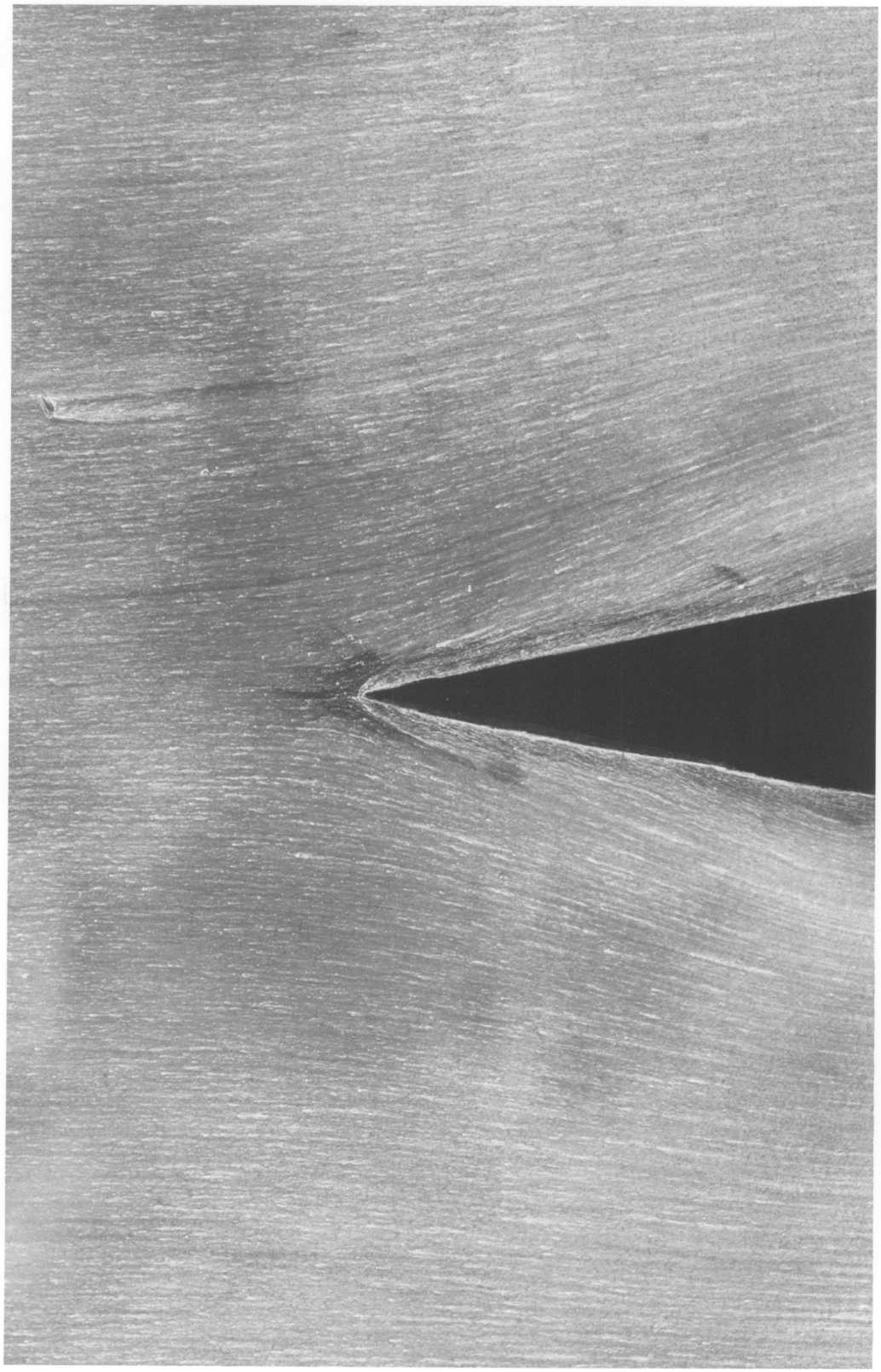


Fig. 4.11 Enlarged View of the Surface Flow Visualization on the Flat Floor of the Wind Tunnel for the 1.5:1 Elliptical Nose Body with Fillet #3

Experimental results show that the strength and the size of the primary horseshoe vortex is effectively reduced by the leading edge fillets. However, the leading edge fillets are not very effective in controlling the strength of the corner separation vortex originating near the trailing edge. As a result, a vortex still exists in the wake. A trailing edge fillet described in Section 2.3.2 and shown in Fig. 2.6 was added to the 1.5:1 elliptical nose body with fillet #3 to study its effect on the corner separation vortex. The floor surface flow visualization did not show any significant changes on the flow pattern near the trailing edge and in the wake, suggesting that the trailing edge fillet has little effect on the corner separation vortex. Since the floor surface flow visualization of the 1.5:1 elliptical nose body with fillet #3 and the trailing edge fillet shows a very similar wake pattern to that for fillet #3, the result is not shown here.

The results of surface flow visualizations on the vertical sides of the 1.5:1 elliptical nose body are shown in Fig. 4.12-4.13. Figure 4.13 is a schematic diagram of Fig. 4.12 emphasizing the major features of the body surface flow visualization. The body boundary layer was tripped with 0.8 mm diameter rods at an x/c location of 0.05 on the both sides of the body. The stagnation line can be seen in the center of the photograph in Fig. 4.12. Qualitatively, the surface flows on the two sides of the body are symmetric about the stagnation line. The downwash caused by the total pressure gradient near the leading edge meets with a small region of reversed flow at the singular separation point marked A in Fig. 4.13. This singular separation suggests the presence of the small counter-rotating corner vortex discussed previously, although it was difficult to see any indication of this small vortex in the floor surface flow visualization. Point A is seen very close to the floor, so that any counter-rotating vortex must be very small. It is likely that this counter-rotating vortex was not seen in the floor surface flow visualization because of its small size. The wires tripped the body boundary layer making it fully turbulent as seen in region B.

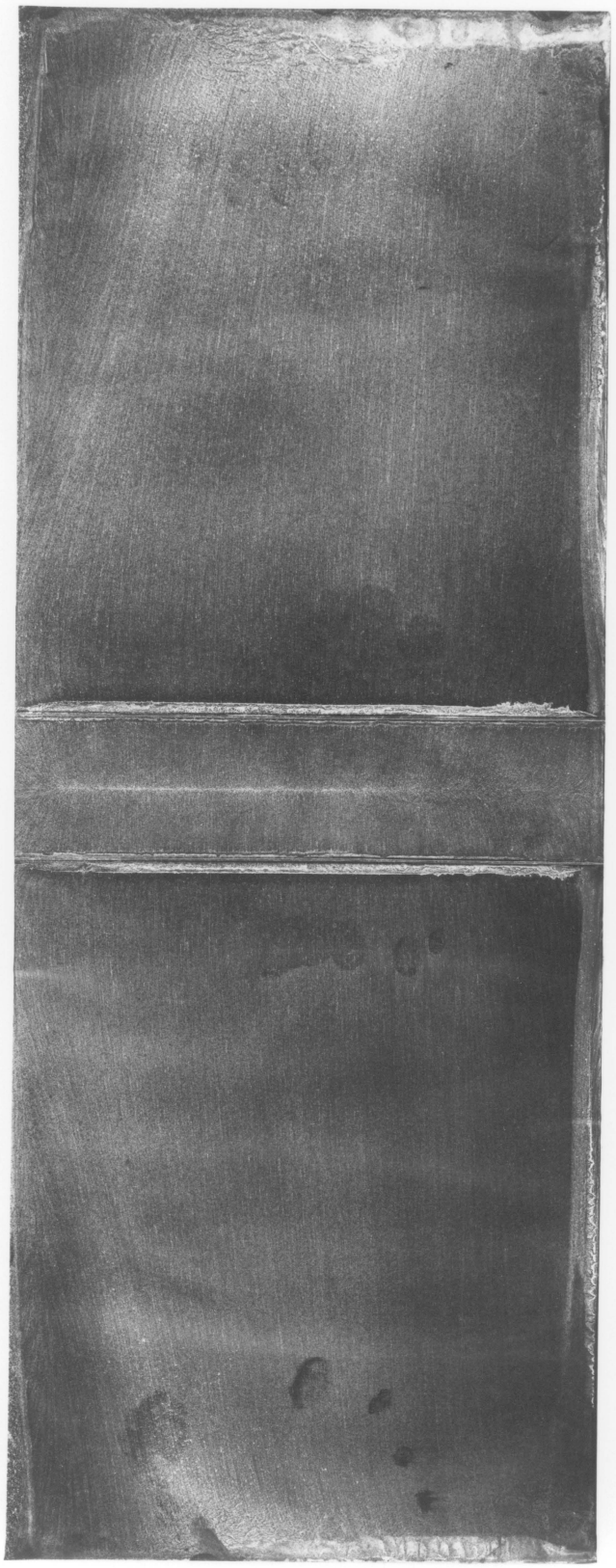


Fig. 4.12 Surface Flow Visualization on the Sides of the 1.5:1 Elliptical Nose Body

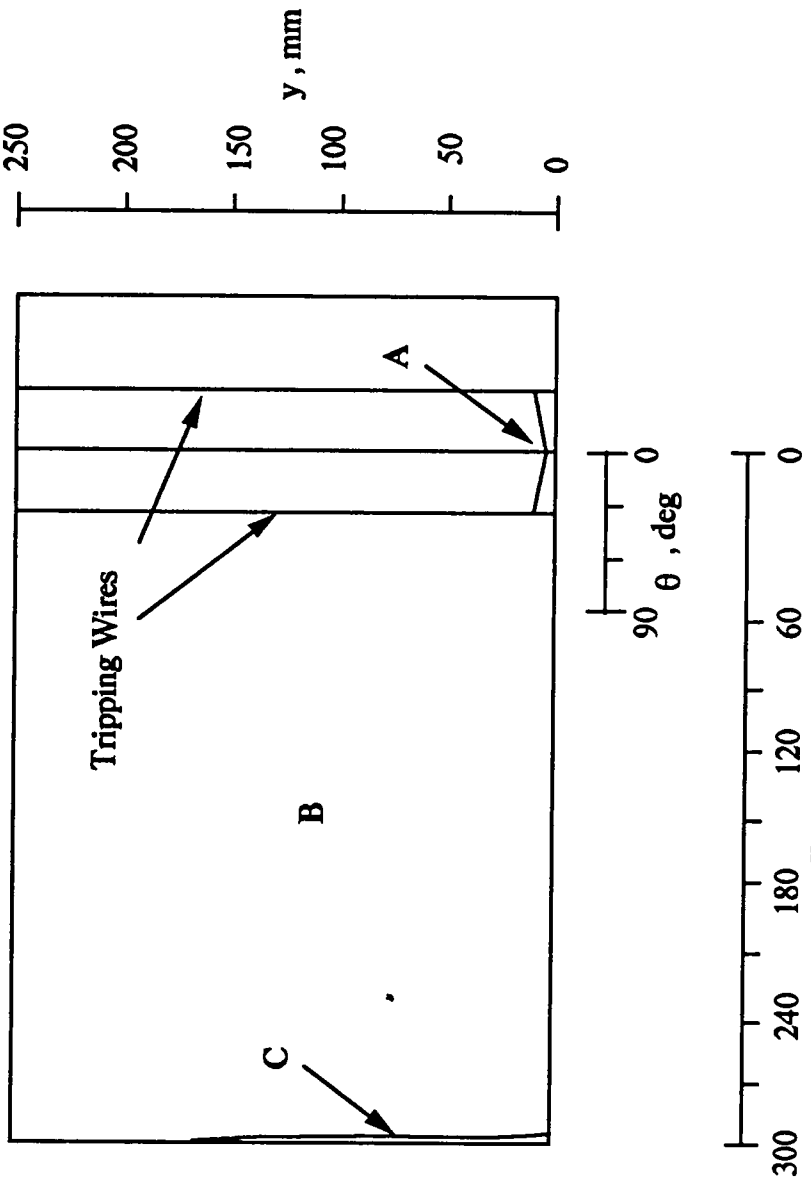


Fig. 4.13 Schematic Diagram of the Surface Flow Visualization on the Sides of the 1.5:1 Elliptical Nose Body



Fig. 4.14 Surface Flow Visualization on the Sides of the 4:1 Wedge Nose Body

The surface flow shows a markedly downflow. A very thin strip of the accumulation of the titanium dioxide-diesel fuel mixture is seen across the span of the body at the trailing edge, region C. This accumulation appears to be due to the excess mixture which flowed along the body side to the trailing edge, rather than due to a separation region.

The results of surface flow visualizations on the vertical sides of the 4:1 wedge elliptical nose body are shown in Fig. 4.14. Major features shown in Fig. 4.14 are very similar to those shown in Fig. 4.12. The body flow visualization results of the 4:1 elliptical nose body show essentially the same features as the 4:1 wedge elliptical nose body and hence results are not presented here.

4.2 Five-Hole Probe Measurements

Three-dimensional flow measurements were made for the various bodies using a five-hole pressure probe. The bodies investigated included:

(1) 1.5:1 elliptical nose body,
(2) 4:1 elliptical nose body,
(3) 4:1 wedge elliptical nose body,
(4) 1.5:1 elliptical nose body with fillet #1,
(5) 1.5:1 elliptical nose body with fillet #2,
(6) 1.5:1 elliptical nose body with fillet #3,
(7) 1.5:1 elliptical nose body with fillet #3 and a trailing edge fillet.

The measurement planes for each body are shown in Figs. 3.4 through 3.10. The five-hole probe yielded the three-dimensional mean velocity field, the total pressure field, and

the static pressure field in these planes. For summary and discussion purposes these results are presented in various plots including a secondary velocity vector plot, an x-component vorticity contour plot, a U velocity contour plot, a total pressure contour plot, and a static pressure contour plot. These contour plots were generated using the Surface II graphics package [103] and incorporate some of the estimation and smoothing capabilities of this software. The speed and the three components of the mean velocity were normalized by the speed at the tunnel throat, $\bar{V}_*$. The five-hole probe data are tabulated in Appendix B.

The x-component vorticity,

$$\Omega_x = \frac{\partial W}{\partial y} - \frac{\partial V}{\partial z}, \tag{4.1}$$

was calculated to quantify the horseshoe vortex using the V and W velocity data. Two Newton's finite divided difference methods were used to approximate the partial derivatives. For an interior node as shown in Fig. 4.15, the following method, which for uniform spacing is a central difference method, was used. Expand the Taylor series about the node (i,j),

$$V_{i+1\,j} = V_{i,j} + \Delta z^{+} \frac{\partial V}{\partial z} + \frac{(\Delta z^{+})^2}{2} \frac{\partial^2 V}{\partial z^2} + O(\Delta z^{+3}) + \cdots, \tag{4.2}$$

$$V_{i-1\,j} = V_{i,j} - \Delta z^{-} \frac{\partial V}{\partial z} + \frac{(\Delta z^{-})^2}{2} \frac{\partial^2 V}{\partial z^2} + O(\Delta z^{-3}) + \cdots. \tag{4.3}$$

Neglect the terms higher than the second order and eliminate the second order term for

$$\left[\frac{\partial V}{\partial z}\right]_{i,j} = \left[\frac{\Delta z^-}{\Delta z^+}(V_{i+1\,j} - V_{i,j}) + \frac{\Delta z^+}{\Delta z^-}(V_{i,j} - V_{i-1\,j})\right] / (\Delta z^+ + \Delta z^-). \qquad (4.4)$$

Similarly,

$$\left[\frac{\partial W}{\partial y}\right]_{i,j} = \left[\frac{\Delta y^-}{\Delta y^+}(W_{i,j+1} - W_{i,j}) + \frac{\Delta y^+}{\Delta y^-}(W_{i,j} - W_{i,j-1})\right] / (\Delta y^+ + \Delta y^-). \qquad (4.5)$$

Then the x-component of vorticity at the node (i,j) is calculated by:

$$[\,\Omega_x\,]_{i,j} = \left[\frac{\partial W}{\partial y}\right]_{i,j} - \left[\frac{\partial V}{\partial z}\right]_{i,j}. \qquad (4.6)$$

For a boundary node as shown in Fig. 4.16, the following 3-point method, which for uniform spacing is a 3-point forward or backward difference method, was used as appropriate.

$$V_{i+1\,j} = V_{i,j} + \Delta z_1 \frac{\partial V}{\partial z} + \frac{(\Delta z_1)^2}{2}\frac{\partial^2 V}{\partial z^2} + O(\Delta z_1^3) + \cdots, \qquad (4.7)$$

$$V_{i+2\,j} = V_{i,j} + \Delta z_2 \frac{\partial V}{\partial z} + \frac{(\Delta z_2)^2}{2}\frac{\partial^2 V}{\partial z^2} + O(\Delta z_2^3) + \cdots. \qquad (4.8)$$

Neglect the terms higher than the second order and eliminate the second order term for,

$$\left[\frac{\partial V}{\partial z}\right]_{i,j} = \left[\frac{\Delta z_2}{\Delta z_1}(V_{i+1\,j} - V_{i,j}) - \frac{\Delta z_1}{\Delta z_2}(V_{i+2\,j} - V_{i,j})\right] / (\Delta z_2 - \Delta z_1). \qquad (4.9)$$

Similarly,

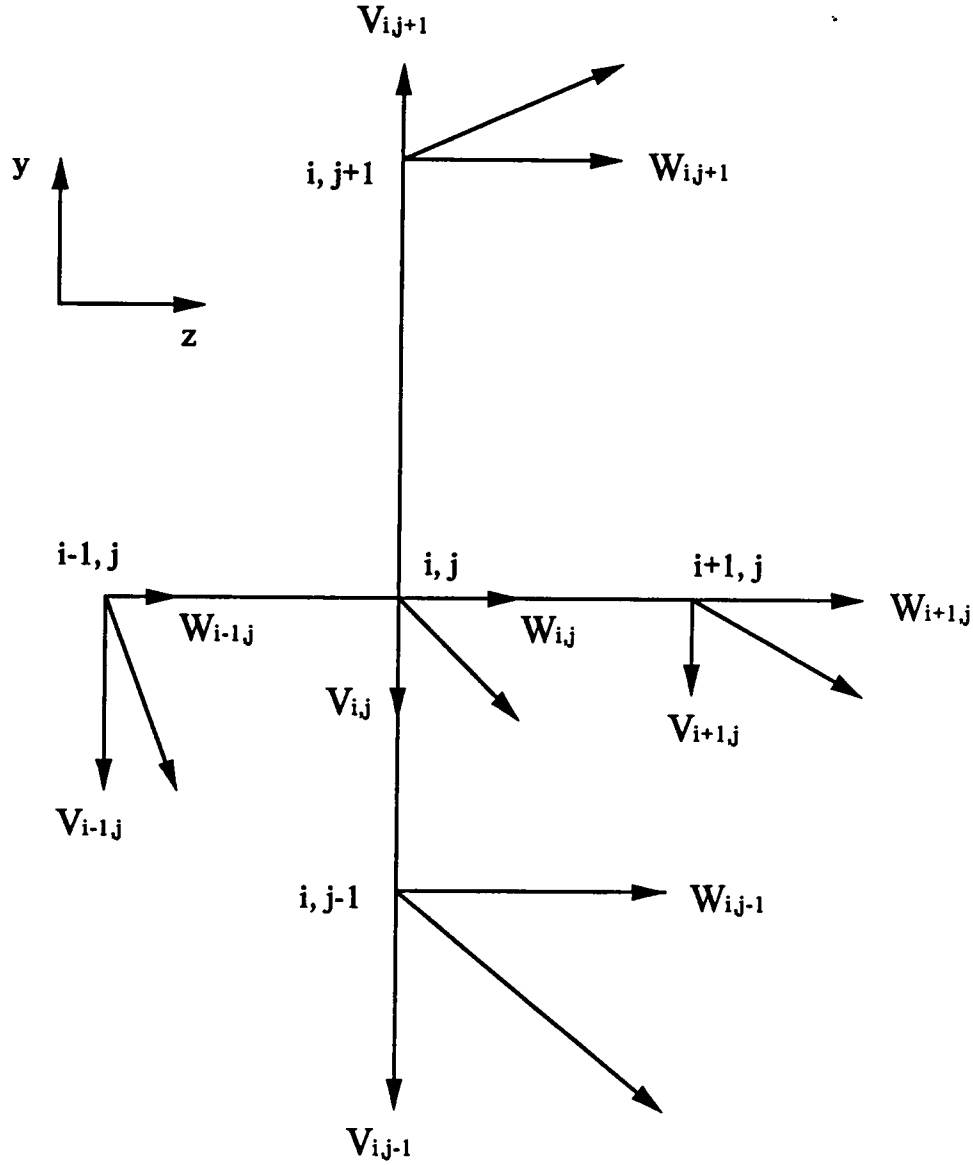


Fig. 4.15 Finite Difference Grid for the Computation of x-Component Vorticity for an Interior Node

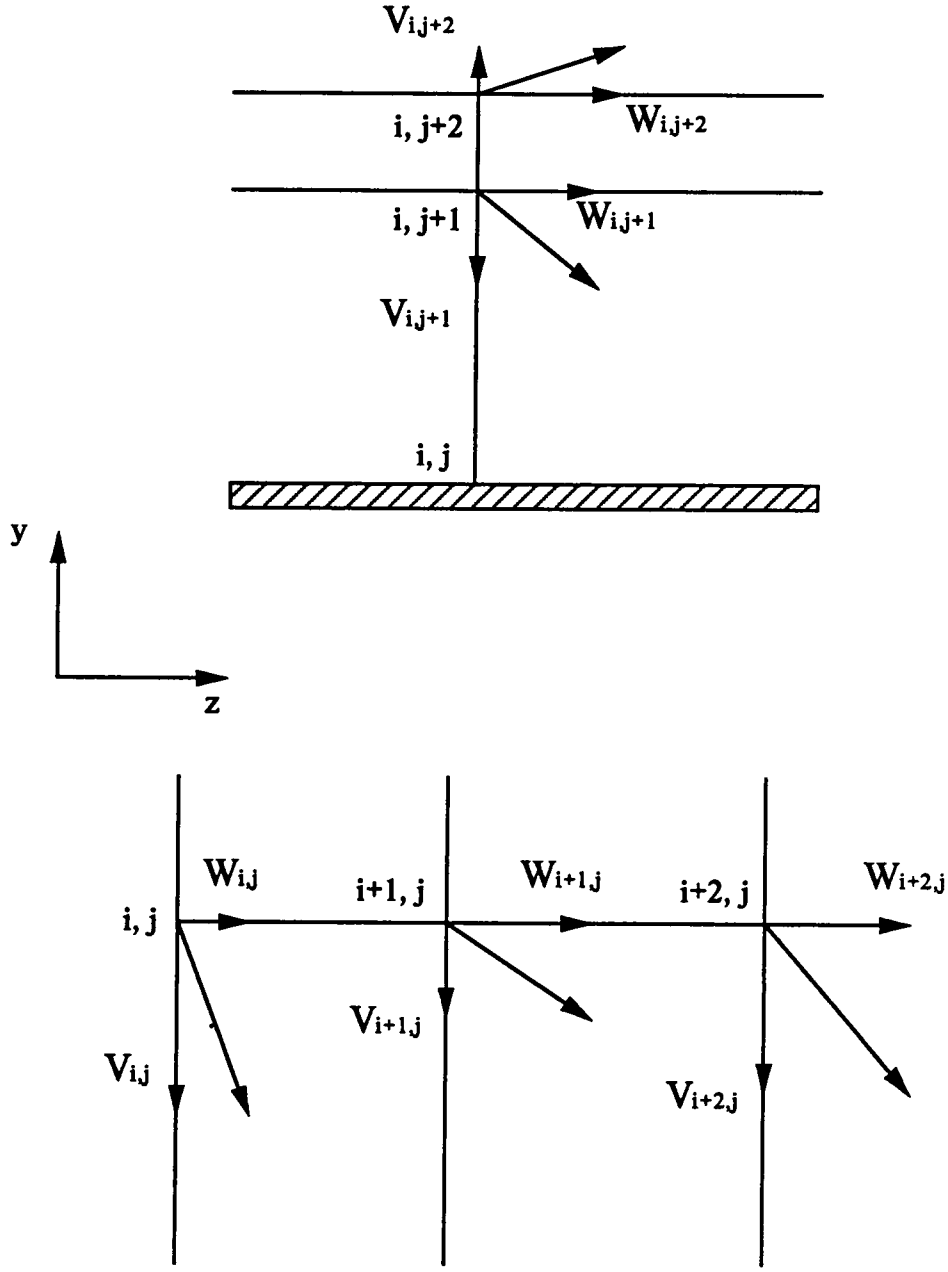


Fig. 4.16 Finite Difference Grid for the Computation of x-Component Vorticity for a Boundary Node

$$\left[\frac{\partial W}{\partial y}\right]_{i,j} = \left[\frac{\Delta y_2}{\Delta y_1}(W_{i,j+1} - W_{i,j}) - \frac{\Delta y_1}{\Delta y_2}(W_{i,j+2} - W_{i,j})\right] / (\Delta y_2 - \Delta y_1). \quad (4.10)$$

Then the x-component of vorticity at the node (i,j) is calculated by:

$$[\Omega_x]_{i,j} = \left[\frac{\partial W}{\partial y}\right]_{i,j} - \left[\frac{\partial V}{\partial z}\right]_{i,j}. \quad (4.11)$$

The calculation was performed using the normalized data and then dimensionalized at the nominal laboratory conditions described in Table 2.1. The zero velocity at the flat floor (no-slip condition) was taken as a part of the data for the vorticity calculations. The computed vorticity has dimensions of 1/sec.

4.3 1.5:1 Elliptical Nose Body

The main objective of documenting the flow field around the 1.5:1 elliptical nose body was to establish a reference case for the body slenderness effect and the fillet effect investigations. This body was chosen because this profile had been used by other investigators [18,33,42,43,44]. This body is more typical of streamlined geometries used in numerous applications and it still generated an adequate secondary flow for study. It was also desirable to make comparisons with the very large quantity of data available for the teardrop body. For this purpose, the 1.5:1 elliptical nose body was made with the same chord length as the teardrop body. The teardrop body was documented in planes forming a complete box-like boundary surrounding the junction vortex flow as shown in Fig. 1.7. The measurement planes for the 1.5:1 elliptical nose body consisted of five transverse planes, and one plane orthogonal to the body surface as shown in Fig. 3.4. The five

transverse planes are at the 9, 18, 43, 100, and 150 percent chord positions and the plane orthogonal to the body surface is at the 9 percent chord position. The three measurement planes at the 43, 100, and 150 percent chord positions were the same for both the 1.5:1 elliptical nose body and the teardrop body.

4.3.1 Transverse Plane at 9 Percent Chord

This measurement plane is located at x/c = 0.09 and is upstream of the maximum thickness location. The secondary velocity vector distribution is shown in Fig. 4.17. The distribution shows high outward W velocities in the junction region. The junction or the horseshoe vortex structure is not seen. A vortex structure should be seen in this plane according to the conventional physical model for the junction flow. The incoming boundary layer separates upstream of the body leading edge, due to a total pressure gradient along the leading edge, resulting in a system of vortices. This system of vortices wraps around the body to form a horseshoe shaped vortex system. The floor surface flow visualization for this body showed the clear high shear stress line wrapping around the body suggesting the presence of a horseshoe vortex. The absence of any apparent vortex structure in Fig. 4.17 is a good example of why one must use caution in interpreting a two-dimensional figure when it is used to describe a three-dimensional flow field.

The secondary velocity vectors shown in Fig. 4.17 can be interpreted as the projection of mean velocity vectors onto the y-z plane. In regions where the body curvature is large, a mean velocity vector projected onto the y-z plane could be quite different in both the magnitude and direction from a mean velocity vector projected onto a plane normal to the local body surface. A simplified illustration is shown in Fig. 4.18. To make this point clearer, the orthogonal plane and the transverse plane are brought

together such that they intersect at the point where the high shear stress line passes. For simplification, a three-dimensional mean velocity is projected onto the x-z plane as a thick arrow, and a thinner arrow represents the projection of this same mean velocity vector onto the transverse (or y-z) plane and the orthogonal plane. As illustrated in Fig. 4.18 (a), a mean velocity might be projected with zero velocity component onto the orthogonal plane, yet have a none zero projection onto the transverse plane. The opposite might also occur as shown in Fig. 4.18 (c). A mean velocity might also be projected onto the orthogonal and transverse planes with these projections in opposite directions as shown in Fig. 4.18 (b). This can occur if the mean velocity falls between the mean velocities shown in Fig. 4.18 (a) and Fig. 4.18 (c). The direction of the flow around the 9 percent chord position near the body is in the negative z direction, because the flow tends to follow the body curvature. Therefore, the directions of the mean velocities around the 9 percent chord position near the body are typically in the negative z direction as shown in either Fig. 4.18 (a) or Fig. 4.18 (b). This is why all the vectors are directed in the negative z direction in the secondary velocity vector distribution of Fig. 4.17.

It was observed in the floor surface flow visualization that the time mean streamlines were highly curved in the region between the leading edge and the maximum thickness location following the body curvature, becoming almost parallel to the x axis after the maximum thickness location. Although this is true only for the flow near the floor, the result of the flow visualization can be used to support the observation that the flow direction around the horseshoe vortex follows the body curvature, since the vortex structure is near the floor as seen in the x-component vorticity distribution in Fig. 4.19. Thus, at the 9 percent chord position, the measurements in the plane orthogonal to the local body surface are more easily interpreted to agree with a physical description of the flow. Measurements in the orthogonal plane were made and the results will be discussed in the

following section. Velocity vectors show the flow moving away from the body, which indicates the flow is following the body contour.

The x-component vorticity distribution is shown in Fig. 4.19. A large primary positive vorticity region is seen with its core at about y = 7 mm and z = -55 mm indicating the presence of the vortex structure. The high shear stress line in the floor surface flow visualization also corresponds to this z location. The x-component vorticity distribution shows that the core of the primary vorticity is very close to the floor. The peak vorticity in the core of the primary vorticity is something of the order of 1,360/sec. A loop of vorticity level of 100 is seen adjacent to the primary vorticity region. As mentioned in Section 4.2, contour plots in the present study were generated using the Surface II graphics package and utilizing smoothing and estimation capabilities of the Surface II. These processes of Surface II could have played a role in separating this loop of 100 level from the adjacent, larger 100 loop at its right. A three-dimensional topography of the x-component vorticity shows a small hill of vorticity where this separate loop of 100 level is seen, suggesting the presence of a local peak of weak vorticity. This vorticity appears to be induced by relatively large velocity gradients (mainly W velocity gradients) in several rows of measured secondary velocities near the floor in the region around -125 mm < z < -100 mm, where W velocities increase toward the floor, rather than by a real vortex structure. A strong negative vorticity region is seen beneath the primary vorticity region across the floor. When the x-component vorticity is calculated, the no-slip condition at the tunnel floor is imposed. As a result, large velocity gradients exist in the W velocity close to the floor. This velocity gradient simulates a boundary layer like velocity distribution resulting in negative or positive x-component vorticity, depending on the direction of the W velocity. For this particular measurement plane, the W velocities at the first row of profiles are directed away from the body resulting in negative x-component vorticity as seen in

vorticity distribution of Fig. 4.19. Thus, the strong negative vorticity seen below the primary positive vorticity region is not due to a real vortex structure as such, but rather due to the boundary layer like character of the secondary flow near the floor in the y direction.

Figure 4.20 shows the U velocity distribution. In this figure the measurement plane can be divided into three regions based on characteristics of the U velocity distribution. The U velocity distribution in a region far away from the floor ($y > 90$ mm for this plane) shows nearly constant U velocity along the y direction. This region is referred to as the body two-dimensional region. A two-dimensional boundary layer like flow on the body side is expected to be seen, but these velocity contours do not show the body boundary layer. It appears that the body boundary layer is sufficiently thin so as not to be seen in these velocity contours. An accelerated flow is seen close to the body, which drops off with increasing z in the negative direction. This is due to the body blockage with the freestream flow accelerating to go around and follow the body contour. The U velocity distribution shows a two-dimensional boundary layer type distribution in a region far away from the body ($z < -150$ mm for this plane). This region is referred to as the floor two-dimensional region. A two-dimensional boundary layer type distribution characterizes the floor two-dimensional region, and suggests little influence of the junction vortex away from the body. The remainder of the measurement plane emphasizes the corner flow in the junction region, and shows the distribution affected by the secondary flow. In the junction region, a uniform transition from the body flow to the flat floor flow is seen. Constant velocity lines become closer in the corner of the junction region. The velocity contours near $z = -55$ mm and close to the floor are curved toward the floor indicating that higher U velocity fluid is entrained toward the floor by the secondary flow of the primary horseshoe vortex. A small hill in the contours near $z = -115$ mm and close to the floor appears to correlate with the weak positive vorticity adjacent to the primary vorticity of Fig. 4.19.

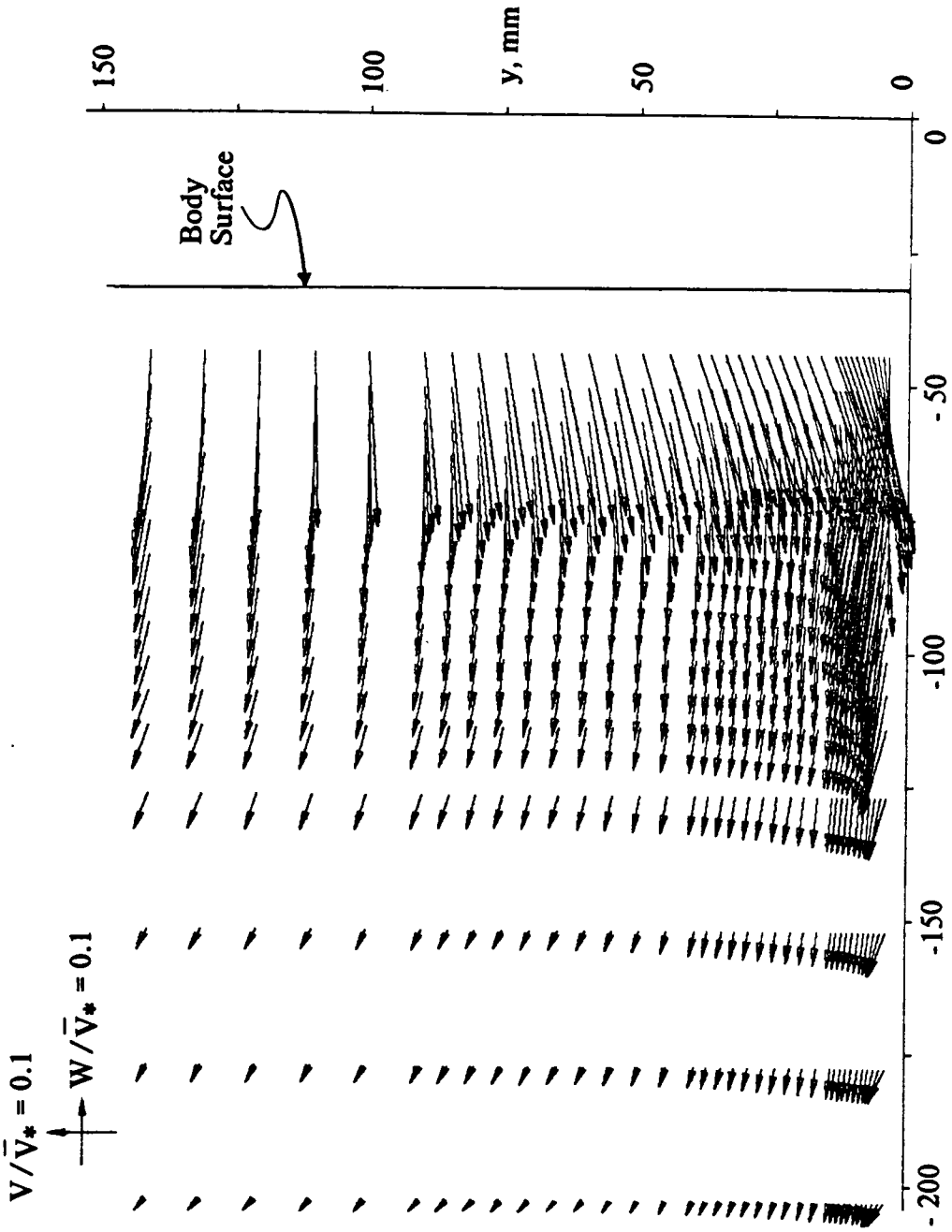


Fig. 4.17 Secondary Velocity Distribution at 9 Percent Chord for the 1.5:1 Elliptical Nose Body

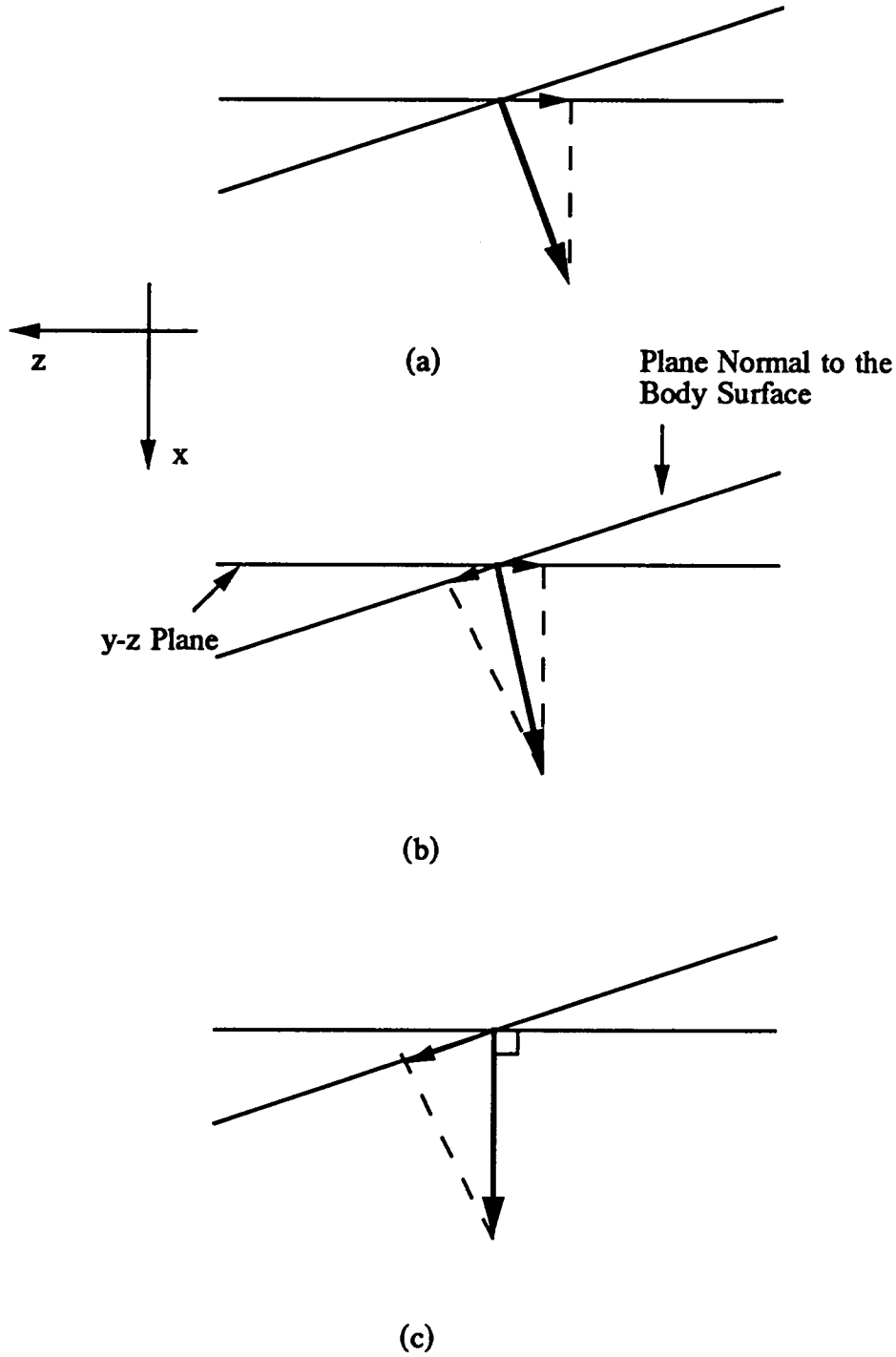


Fig. 4.18 Projections of Mean Velocity Vectors onto the y-z Plane and a Plane Normal to the Body Surface

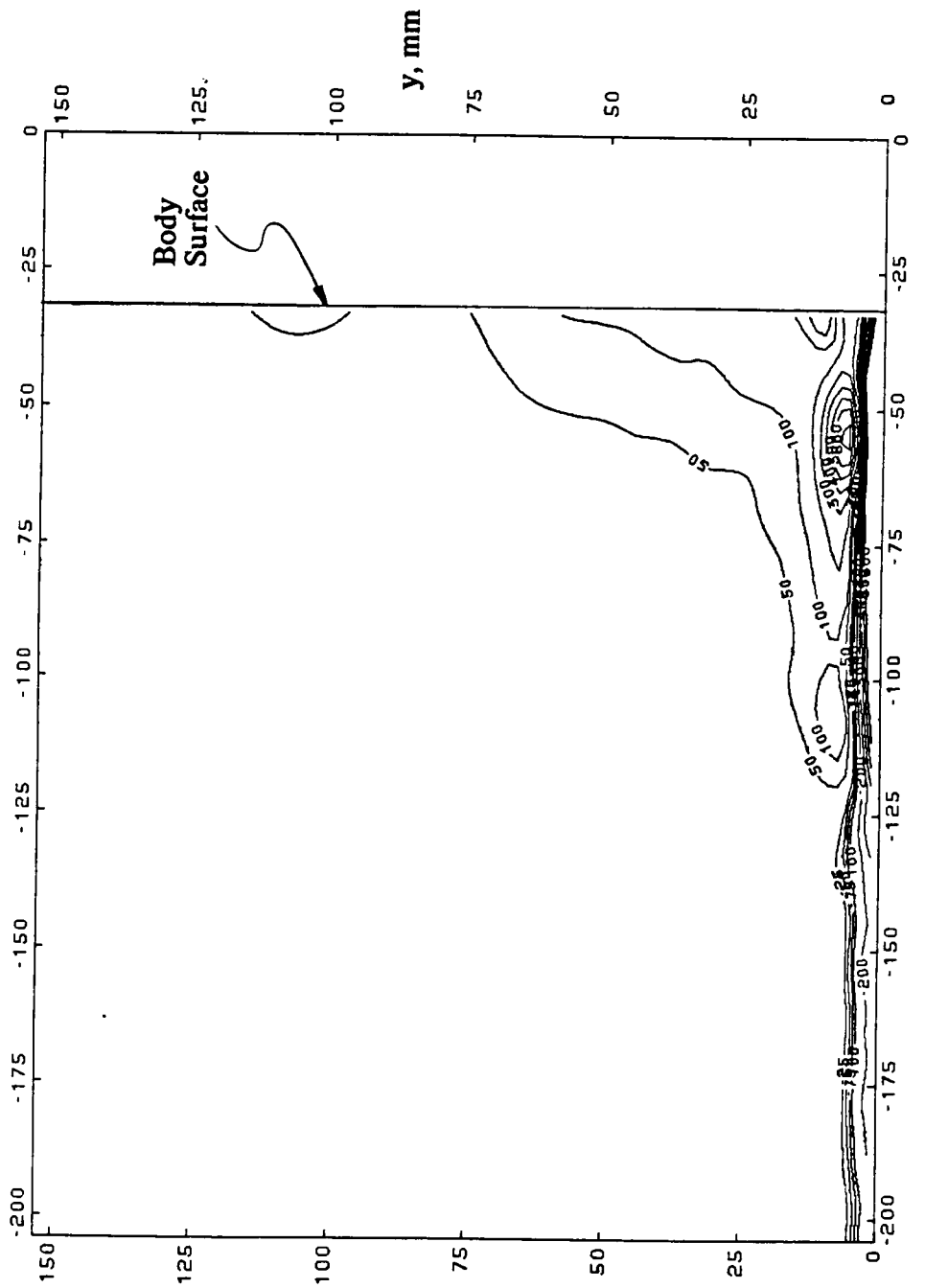


Fig. 4.19 x-Component Vorticity Distribution at 9 Percent Chord for the 1.5:1 Elliptical Nose Body

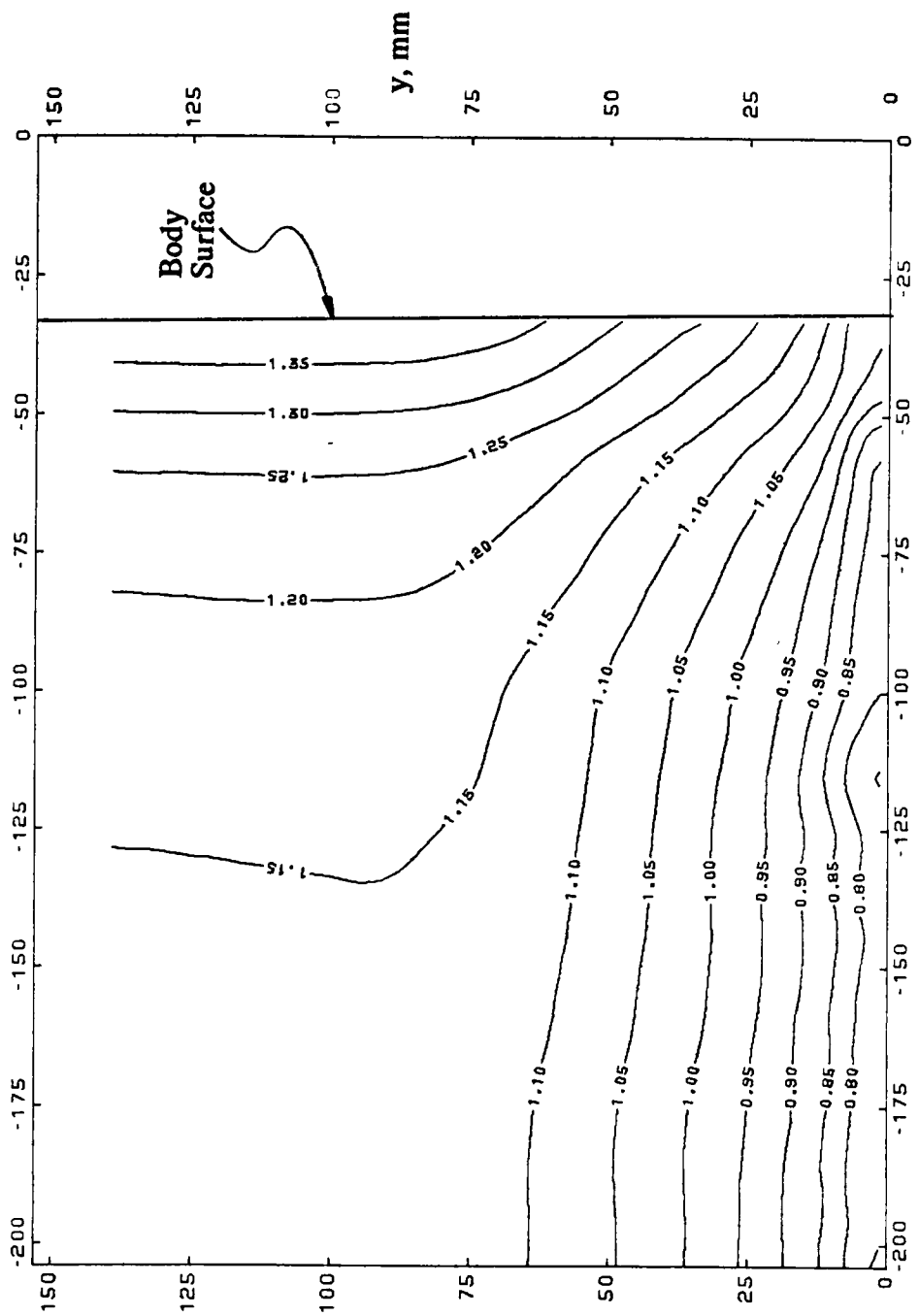


Fig. 4.20 U velocity Distribution at 9 Percent Chord for the 1.5:1 Elliptical Nose Body

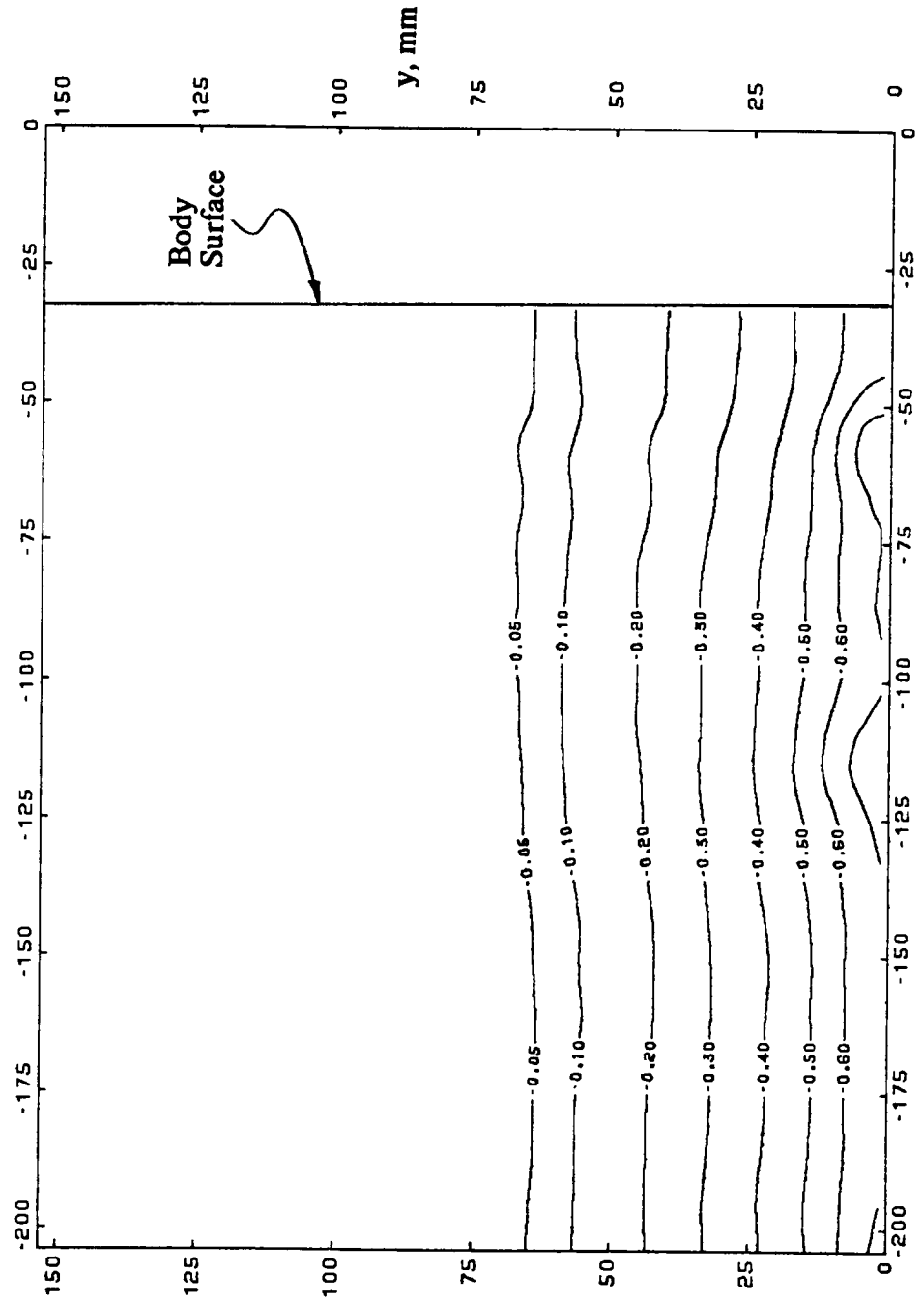


Fig. 4.21 Total Pressure Coefficient Distribution at 9 Percent Chord for the 1.5:1 Elliptical Nose Body

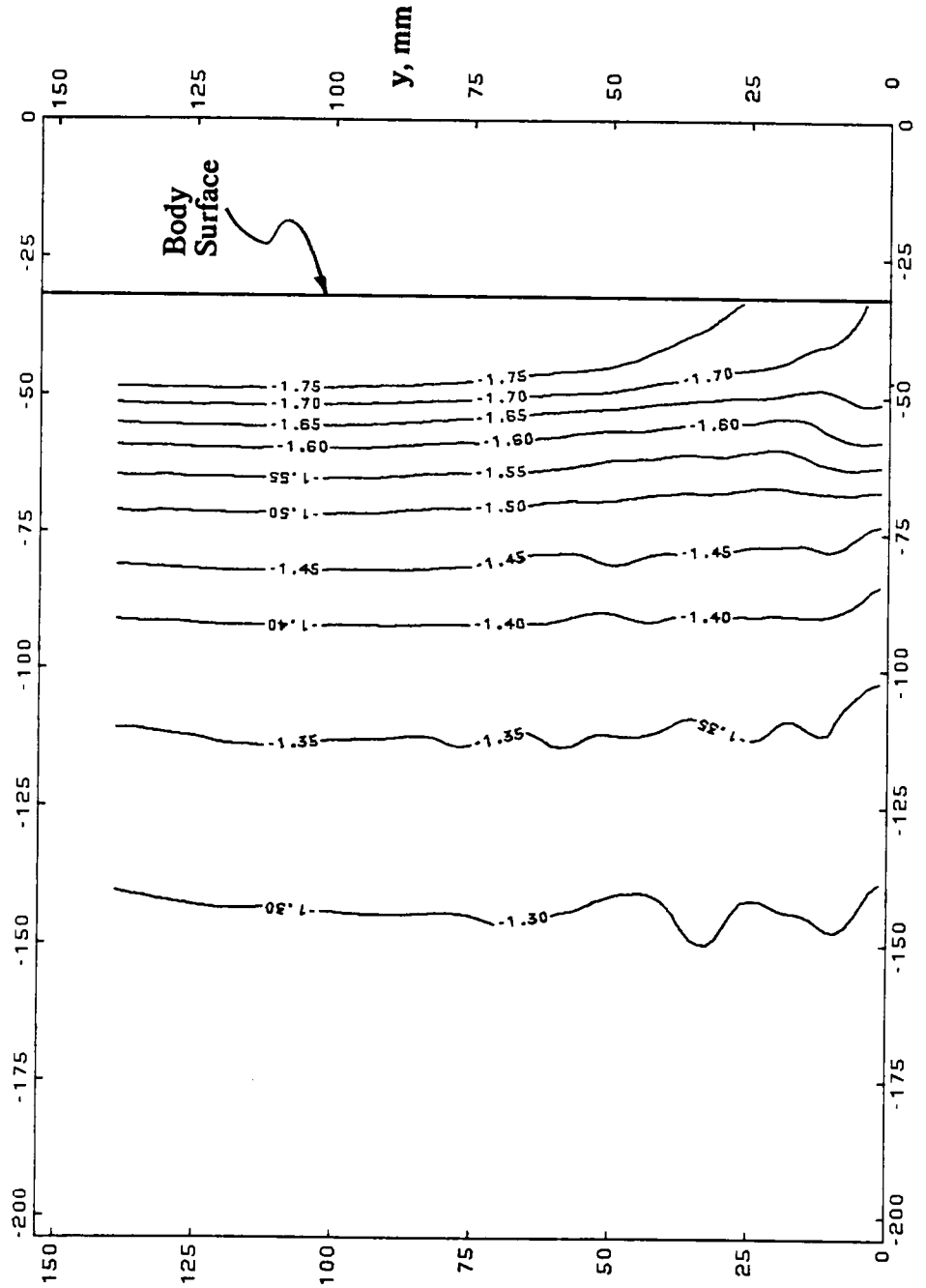


Fig. 4.22 Static Pressure Coefficient Distribution at 9 Percent Chord for the 1.5:1 Elliptical Nose Body

The total pressure distribution and the static pressure distribution are shown in Fig. 4.21 and Fig. 4.22. The presence of the horseshoe vortex results in a small hump near z = -55 mm in the total pressure distribution. A small hump near z = -115 mm correlates with the weak positive vorticity adjacent to the primary vorticity of Fig. 4.19. The static pressure distribution shows the nearly constant static pressure along the y direction, and higher static pressure with increasing z in the negative direction since the flow has curved streamlines and pressure rises in the increasing local radius direction.

4.3.2 Orthogonal Plane at the Body Surface at 9 Percent Chord

This plane was investigated to support the interpretation of the secondary velocity vector distribution in Section 4.3.1. This plane is orthogonal to the body surface at the 9 percent chord position. In the region close to the leading edge, the flow follows the body curvature closely since the body boundary layer is thin in this region. Since the 9 percent chord position is close to the leading edge, it is reasonable to consider that this plane is orthogonal to the gross flow direction in a region near the body. However, this plane cannot be considered to be orthogonal to this gross flow direction further away from the body, because the presence of the body is not felt as strongly away from the body as near the body. Hence the flow is mainly in the x direction away from the body.

Since an y-z plane defines a transverse plane, the coordinate system being used throughout this study as defined in Fig. 2.7 is not convenient to define an orthogonal plane to the body surface. A new coordinate system as shown in Fig. 4.23 is used at this plane, so that an y-n plane defines an orthogonal plane to the body surface. The s axis is perpendicular to the y-n plane. Thus this transformation of the coordinate system is a pure

rotation of the x and z axes about the y axis. The velocity in the direction of the n axis is given by:

$$W' = W \cos \gamma + U \sin \gamma , \tag{4.12}$$

where γ is the angle between the z axis and the n axis. This velocity will be referred to as the normal velocity. The velocity in the direction of the s axis is given by:

$$U' = U \cos \gamma - W \sin \gamma , \tag{4.13}$$

and will be referred to as the streamwise velocity.

The secondary velocity vector distribution in this plane is shown in Fig. 4.24. The vortex structure is clearly seen near n = -55 mm, close to the floor. Away from the body very high W' velocities can be seen because the flow is mainly in the direction of the x axis rather than in the direction of the s axis. Figure 4.25 shows the computed vorticity distribution using V and W' velocity data. The reader should note that this vorticity is the s-component of the vorticity, and not the x-component. The cross sectional area and shape of the primary positive vorticity region are similar to that at the 9 percent chord transverse plane. The peak vorticity value is higher (1,680/sec) because this plane is a little closer to the plane of symmetry than the transverse plane at the 9 percent chord location. The high positive vorticity region seen close to the floor and away from the body is due to the large W' velocity gradients seen in the V-W' velocity distribution. In this plane the secondary flow is into the body and the vorticity computed for this thin, boundary layer like shear layer is typically positive, with W' velocity gradients at the wall contributing most strongly.

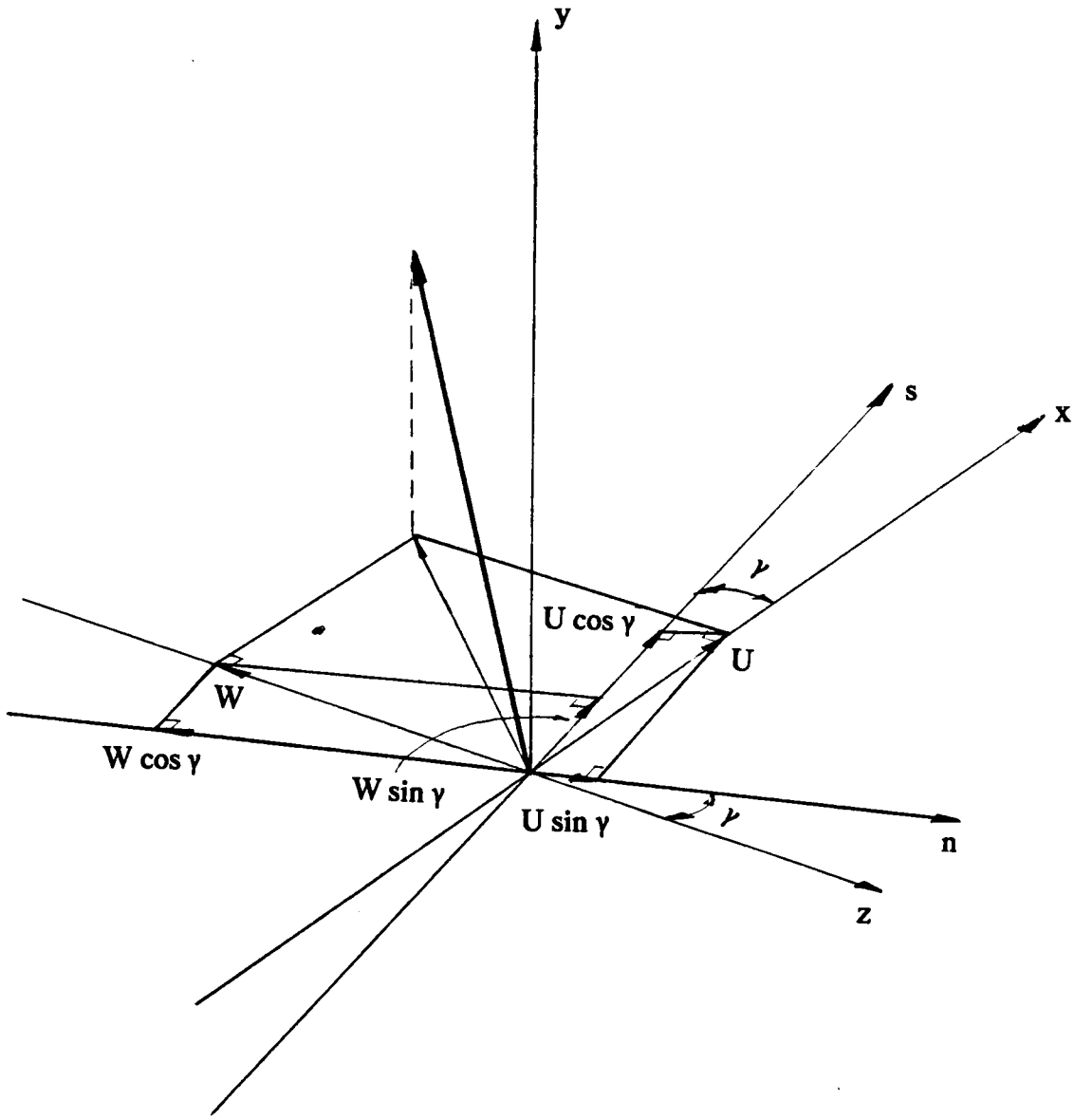


Fig. 4.23 Transformation of the Coordinate System

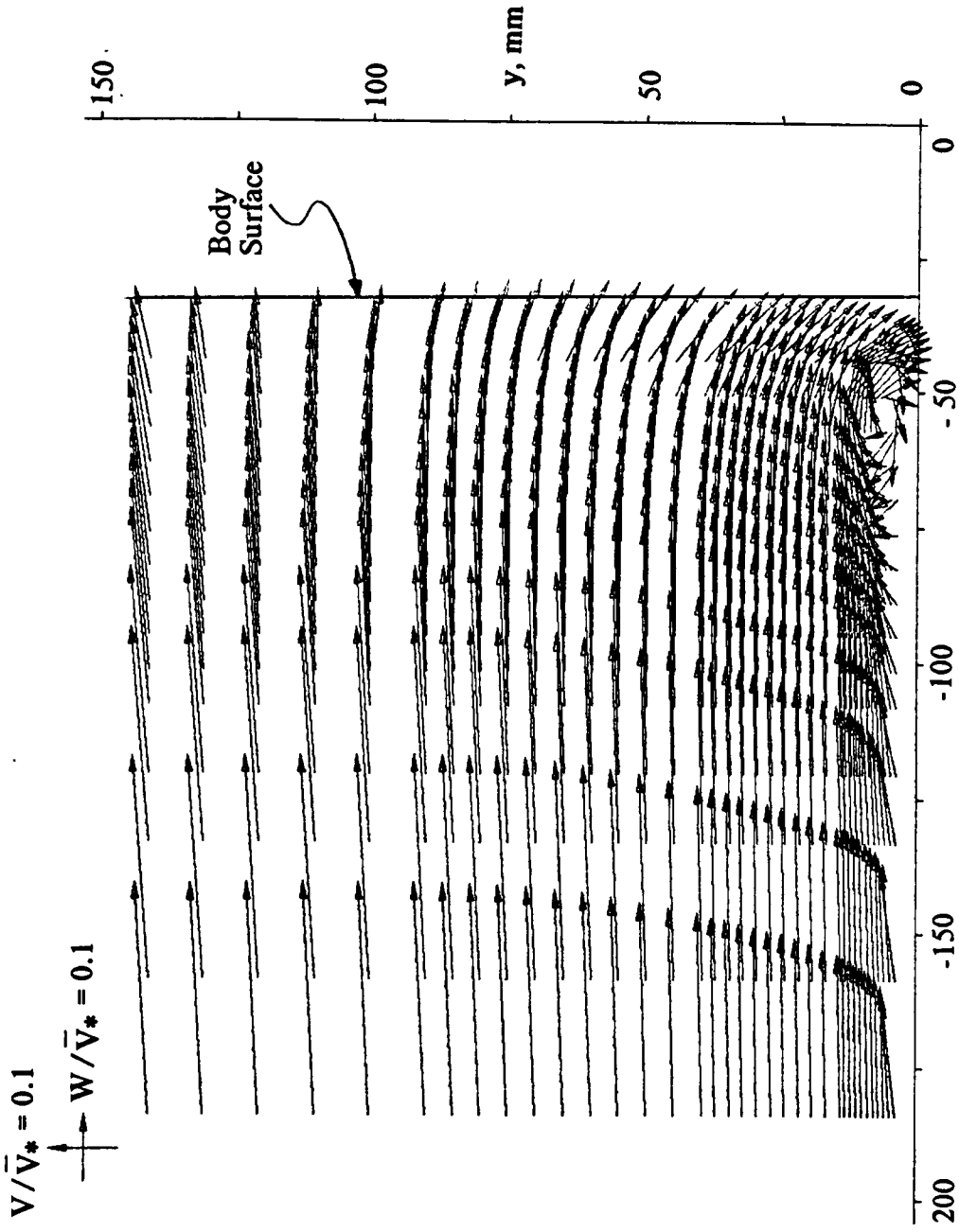


Fig. 4.24 Secondary Velocity Distribution in the Orthogonal Plane at 9 Percent Chord for the 1.5:1 Elliptical Nose Body

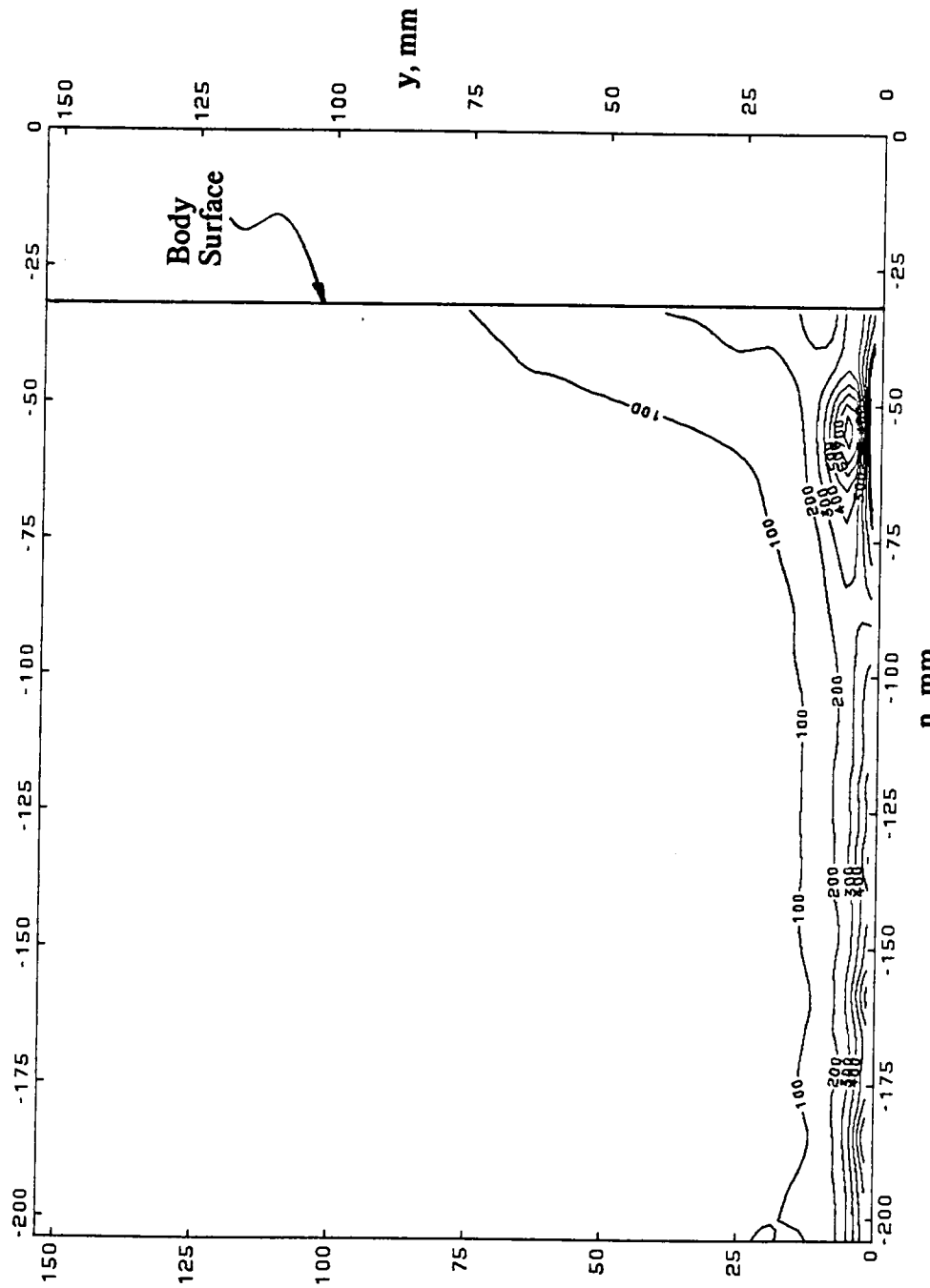


Fig. 4.25 s-Component Vorticity Distribution in the Orthogonal Plane at 9 Percent Chord for the 1.5:1 Elliptical Nose Body

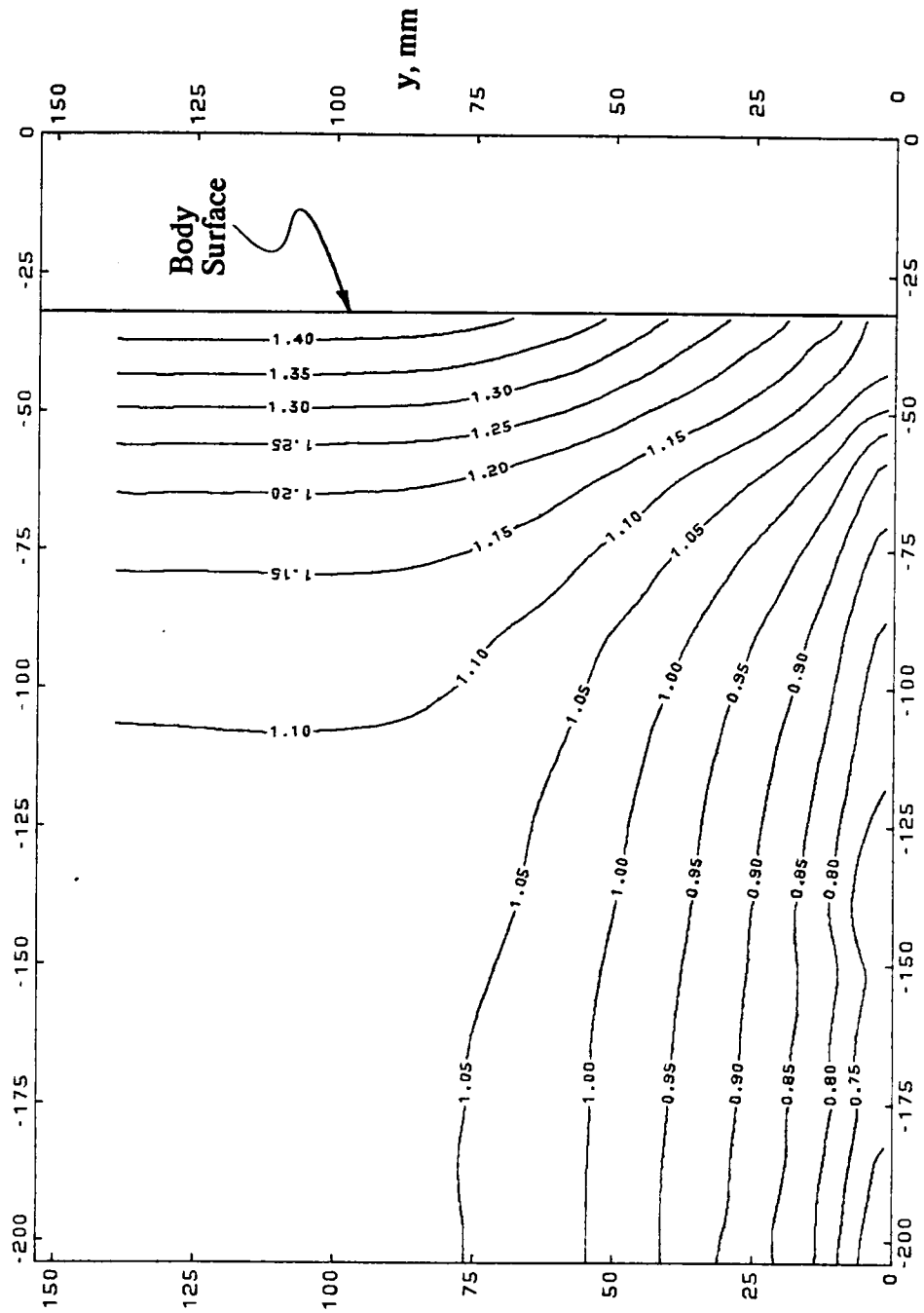


Fig. 4.26 U' Velocity Distribution in the Orthogonal Plane at 9 Percent Chord for the 1.5:1 Elliptical Nose Body

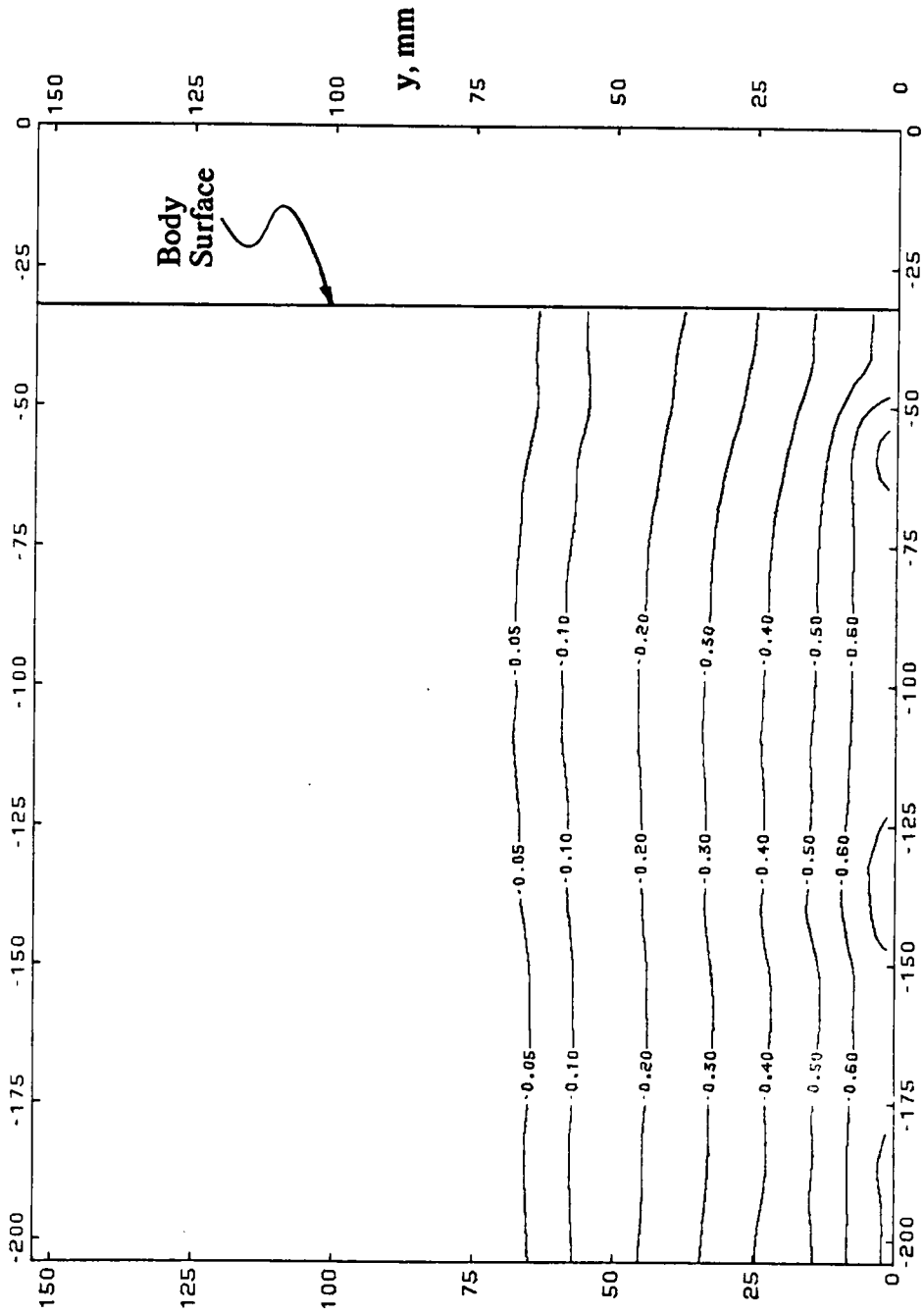


Fig. 4.27 Total Pressure Coefficient Distribution in the Orthogonal Plane at 9 Percent Chord for the 1.5:1 Elliptical Nose Body

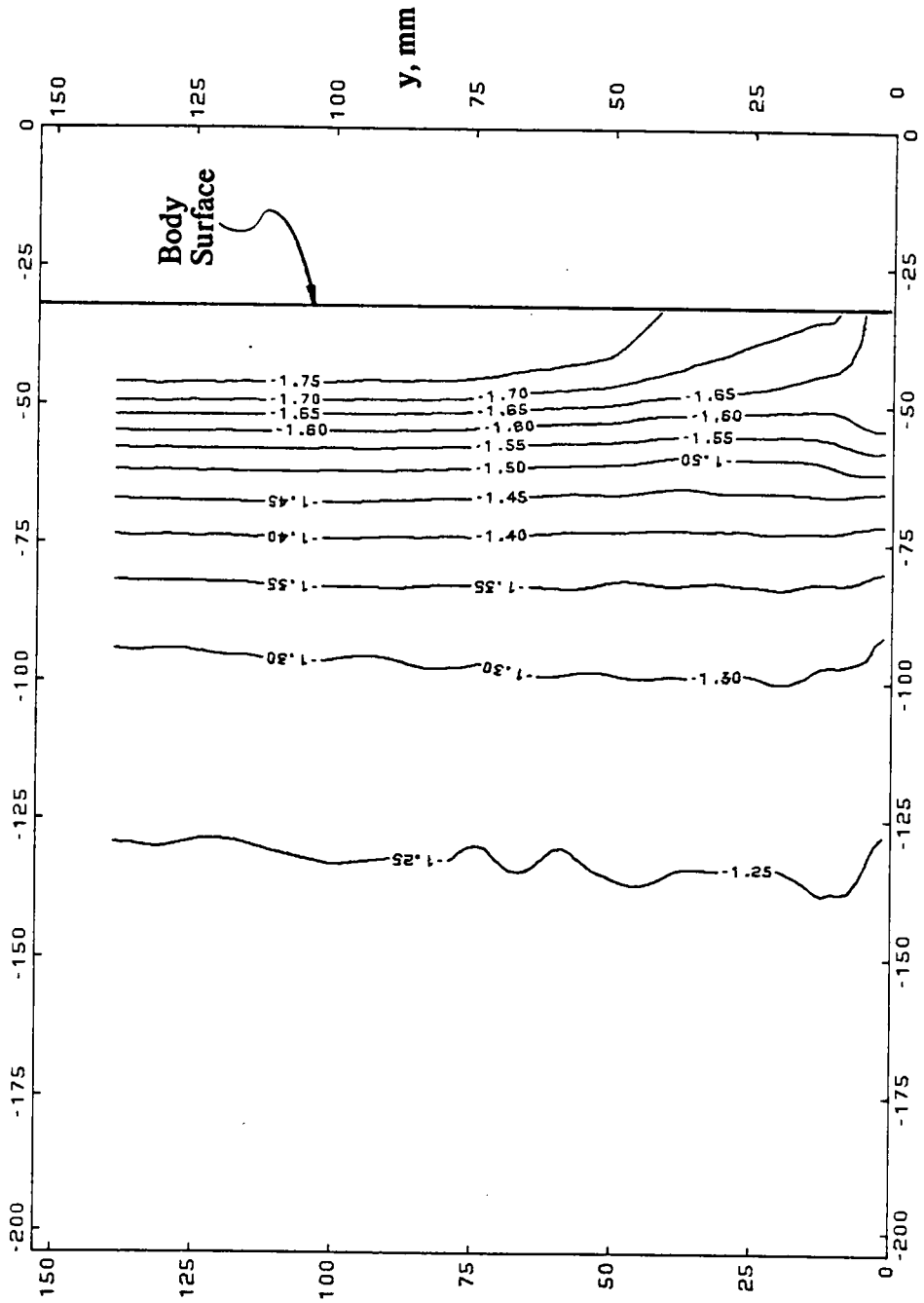


Fig. 4.28 Static Pressure Coefficient Distribution in the Orthogonal Plane at 9 Percent Chord for the 1.5:1 Elliptical Nose Body

The U' velocity distribution is shown in Fig. 4.26. The essential features are the same as those shown in Fig. 4.20. The slopes of the constant velocity contours near n = -55 mm and close to the floor are much steeper indicating a stronger effect of the primary horseshoe vortex in this y-n plane. High U' velocity fluids are swept toward the floor by the downflow seen on the right of the vortex center in the secondary velocity vector distribution of Fig. 4.24.

The total pressure distribution and the static pressure distribution are shown in Fig. 4.27 and Fig. 4.28. The total pressure distribution shows a boundary layer like distribution over the entire plane. The static pressure distribution shows similar features to those seen in the transverse plane at 9 percent chord.

4.3.3 Transverse Plane at Maximum Thickness or 18 Percent Chord

This measurement plane is located at the maximum thickness of the body, and corresponds to x/c = 0.18. Figure 4.29 shows the secondary velocity vector distribution. Most of the velocity vectors are directed away from the body with no indication of a horseshoe vortex structure in the junction region, similar to the 9 percent chord transverse plane. The absence of the horseshoe vortex structure can be explained by the same argument presented for the secondary velocity vector distribution in Section 4.3.1. The floor surface flow visualization shows that streamlines at the maximum thickness location diverge from the body in the region near the body. This is consistent with the hypothesis that the flow is generally not closely following the body contour, and generally directed away from the body. Dickinson [33] measured mean velocities using hot-films at this location for a geometrically similar but smaller body. His secondary velocity vector distribution agrees well with the results of this study.

The x-component vorticity distribution is shown in Fig. 4.30. A primary positive vorticity region is seen with its core centered near z = -65 mm and y = 6 mm. The cross sectional area of the primary vorticity region has increased compared with that in the 9 percent chord plane, and the peak vorticity value has decreased to something of the order of 1,023/sec. The vortex core has moved away from the body. The contours in the primary vorticity region show the vortex having an elliptic shape. A strong negative vorticity region seen below the primary vorticity region appears to be induced by large velocity gradients between the first row of measured secondary velocities and zero velocity assigned at the floor, and the sign is consistent with an outflow along the floor as seen in the secondary velocity distribution of Fig. 4.29.

Figure 4.31 shows the U velocity distribution. The distribution is similar to the distribution in the 9 percent chord plane. The slopes of the constant velocity contours near z = -65 mm and near the floor are much steeper compared to the slopes of the neighboring contours, due to the presence of the horseshoe vortex.

The total pressure distribution and the static pressure distribution are shown in Fig. 4.32 and Fig. 4.33 respectively. The total pressure distribution near z = - 65 mm and close to the floor shows more contours curved toward the floor compared to the 9 percent chord transverse plane. This result suggests that secondary flow affects a larger region, which is consistent with a larger vorticity region seen in the x-component vorticity distribution. The static pressure distribution shows almost constant static pressure along the y direction, except for the flow close to the body side.

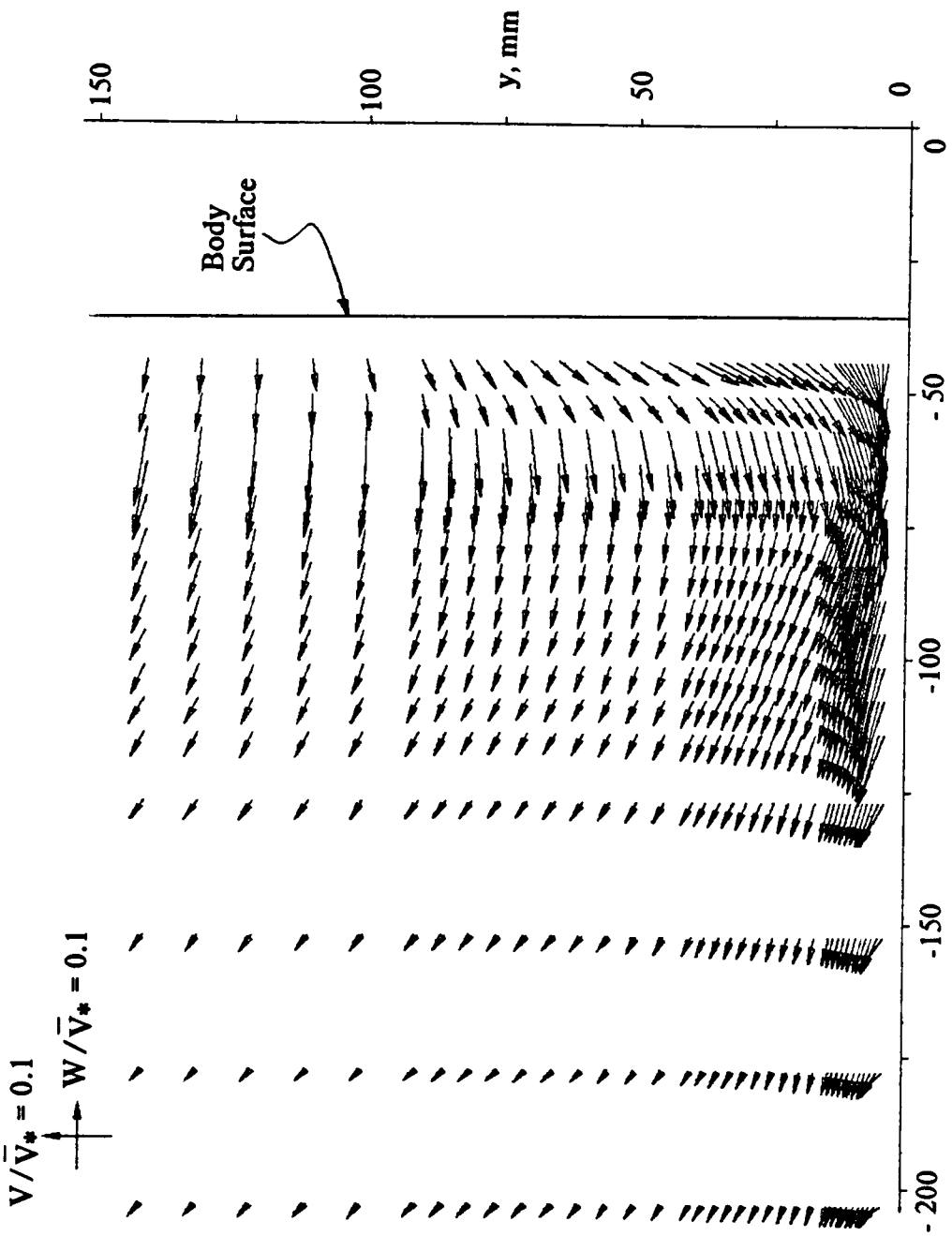


Fig. 4.29 Secondary Velocity Distribution at 18 Percent Chord for the 1.5:1 Elliptical Nose Body

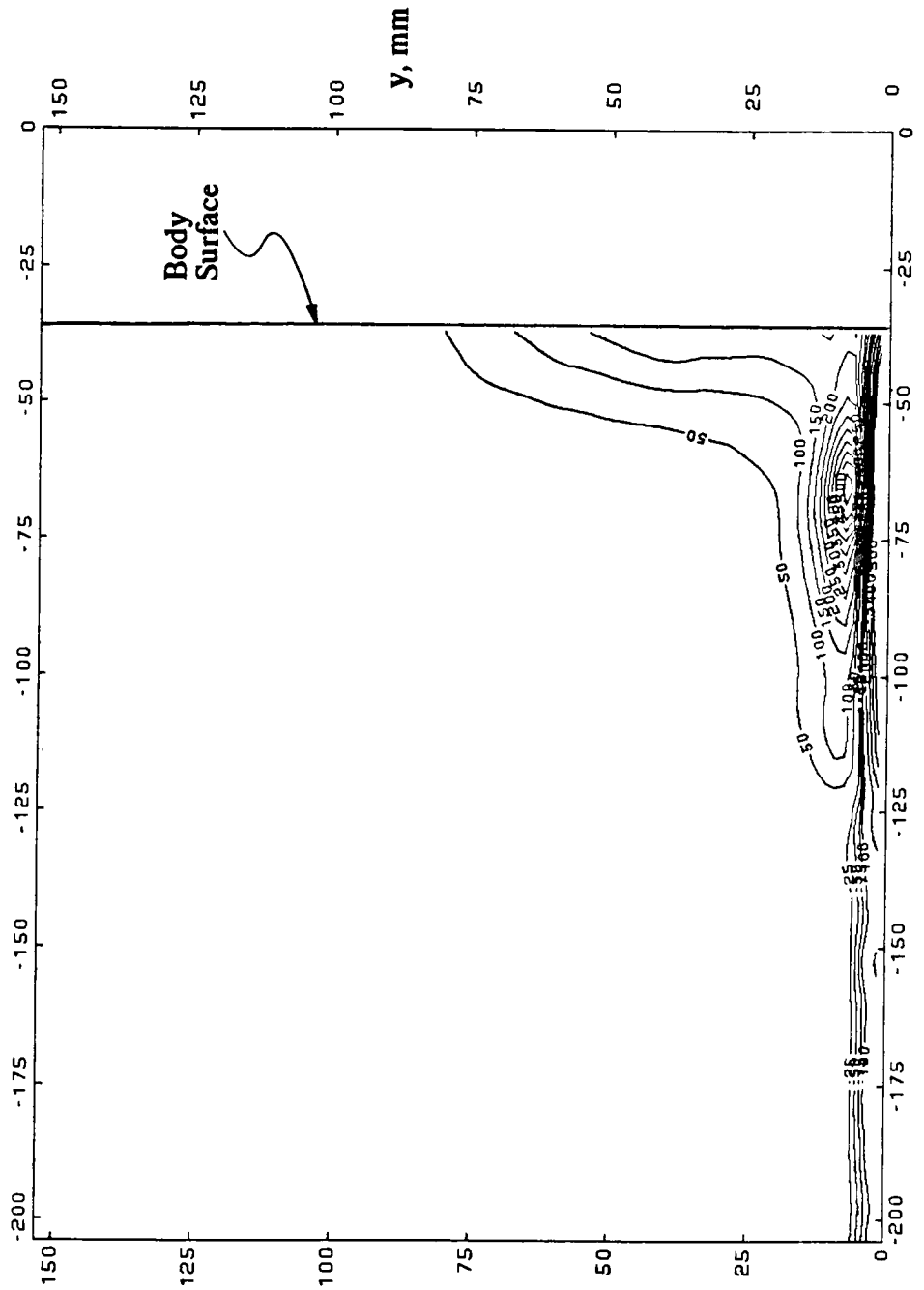


Fig. 4.30 x-Component Vorticity Distribution at 18 Percent Chord for the 1.5:1 Elliptical Nose Body

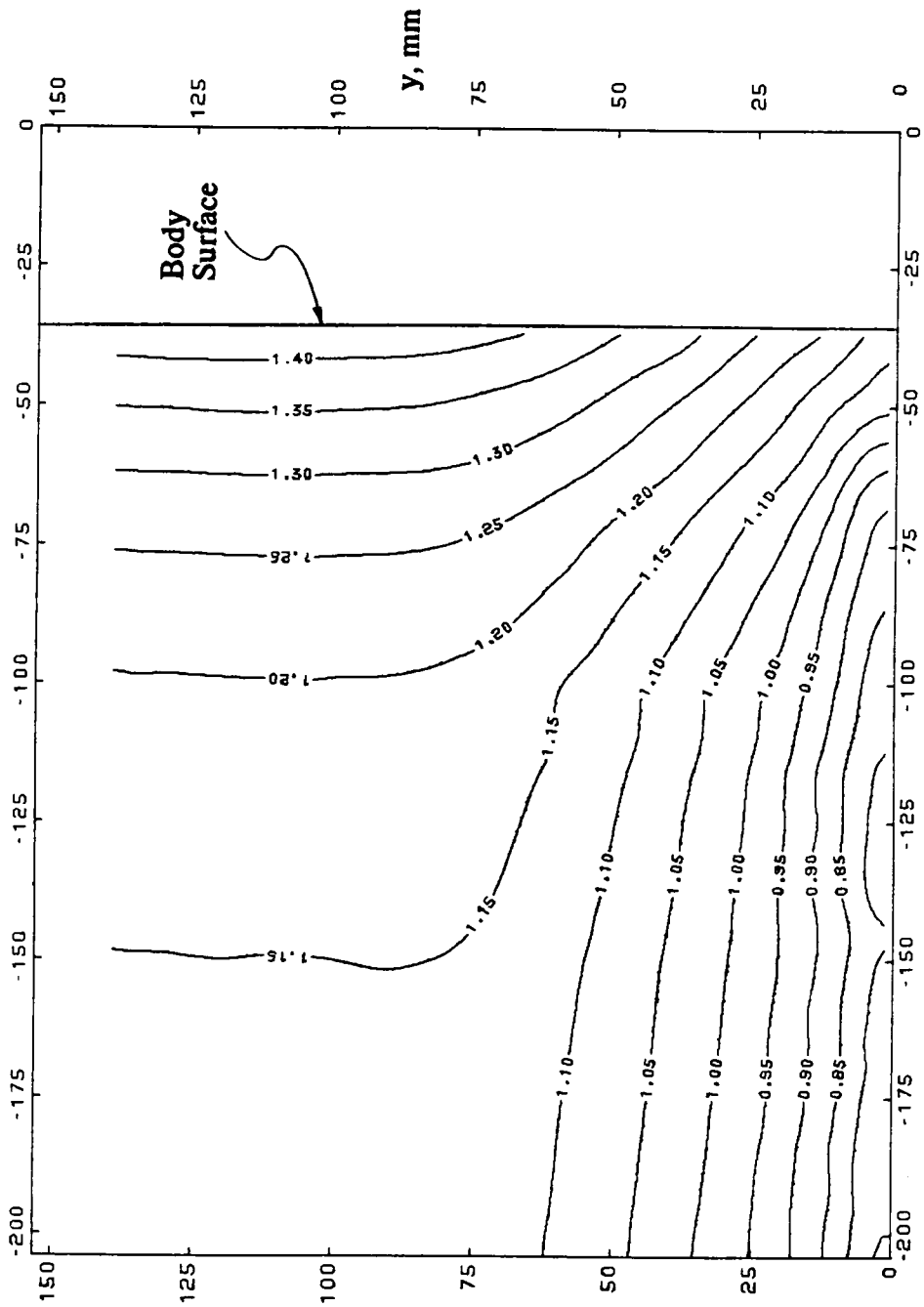


Fig. 4.31 U velocity Distribution at 18 Percent Chord for the 1.5:1 Elliptical Nose Body

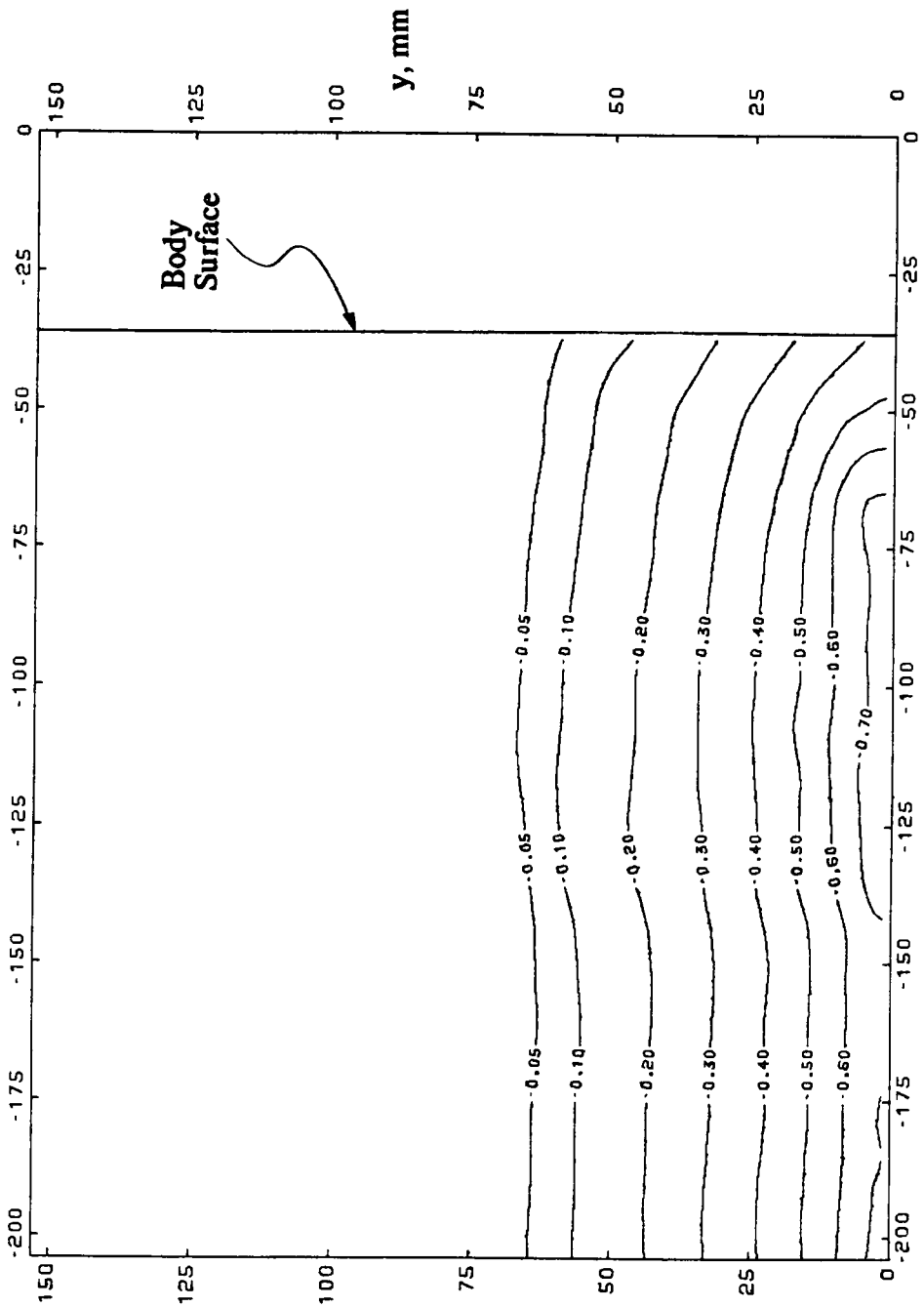


Fig. 4.32 Total Pressure Coefficient Distribution at 18 Percent Chord for the 1.5:1 Elliptical Nose Body

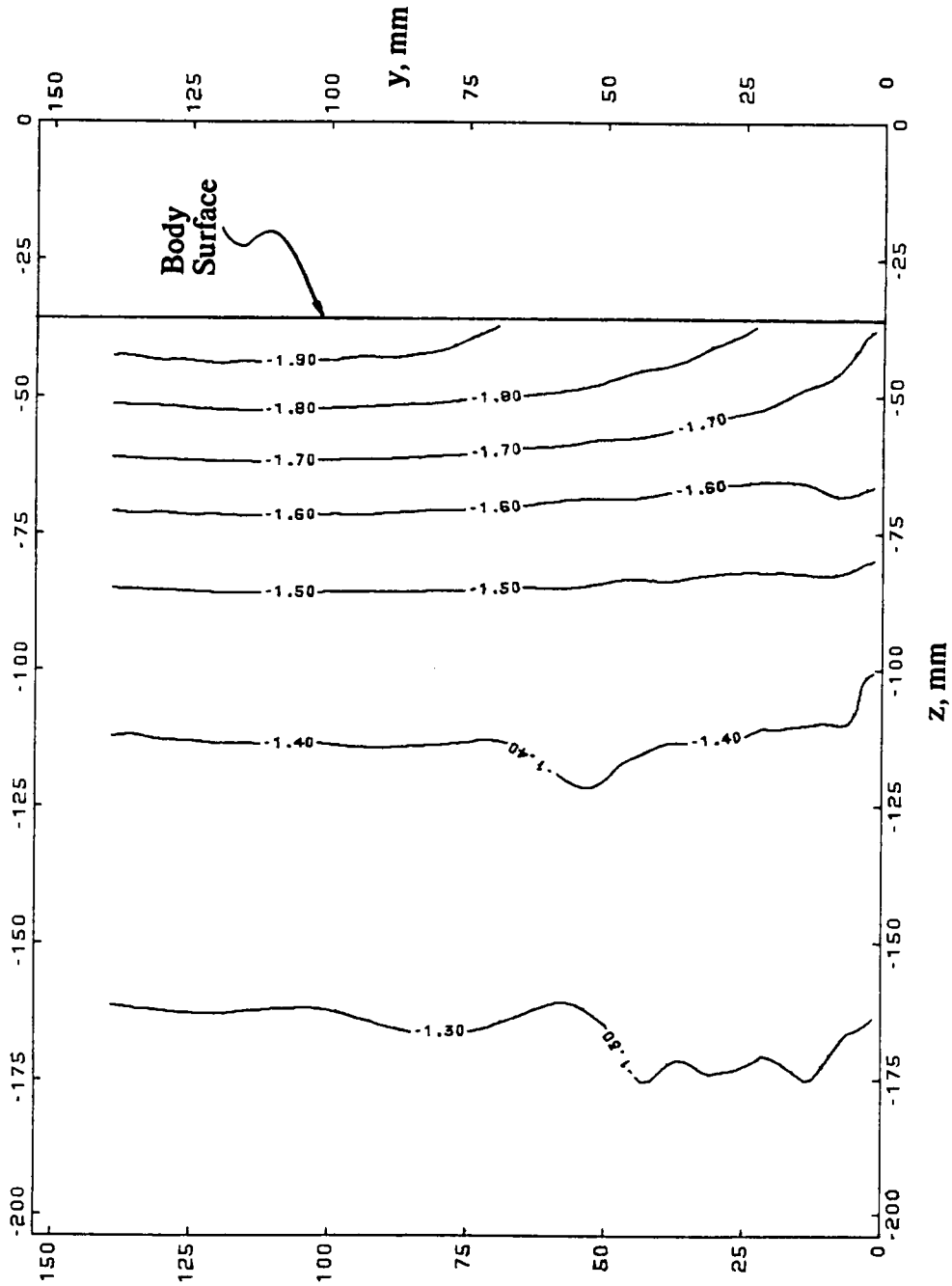


Fig. 4.33 Static Pressure Coefficient Distribution at 18 Percent Chord for the 1.5:1 Elliptical Nose Body

4.3.4 43 Percent Chord Plane

This location was chosen to compare with the corresponding measurement plane investigated by Harsh [15] for the teardrop body. The secondary velocity vector distribution is shown in Fig. 4.34. The velocity vectors show a flow toward the body tending to follow the body contour. This is expected due to the geometry of the body after the maximum thickness location. In the junction region, the vortex structure is seen centered around z = -75 mm and y = 10 mm and this z location corresponds to the high shear stress line in the floor surface flow visualization. The flow region away from the body shows very small secondary velocity vectors indicating a small influence of the primary horseshoe vortex.

The x-component vorticity distribution is shown in Fig. 4.35. The primary horseshoe vortex is seen with its core near z = -75 mm and y = 8 mm. The primary vorticity region has moved further away from the body. The cross sectional area of the primary vorticity region is about the same as that at the 18 percent chord plane, but the peak vorticity has decreased to something of the order of 490/sec. A relatively strong negative vorticity region below the primary positive vorticity region is believed to be caused by velocity gradients between the first row of measured secondary velocities and the zero velocity at the floor. The sign is consistent with the outflow near the floor as seen in the secondary velocity distribution of Fig. 4.34. It appears that a small positive vorticity region is seen in the corner and very close to the body. This is believed to be induced by the boundary layer like secondary velocity vector distribution seen along the transverse data station at z = -45 mm, because the U velocity distribution (Fig. 4.36) and the total pressure distribution (Fig. 4.37) do not show any effects of this small corner vorticity.

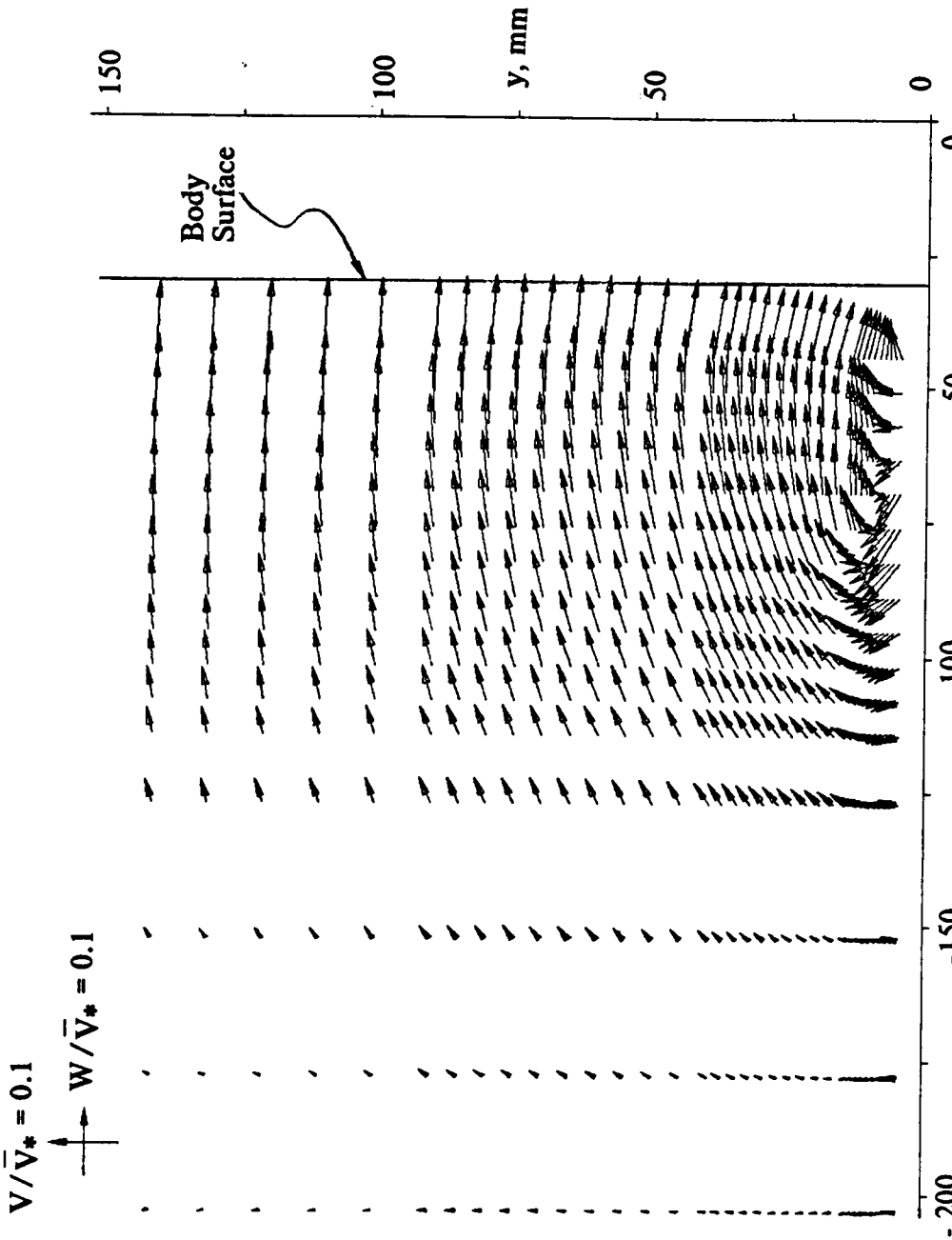


Fig. 4.34 Secondary Velocity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body

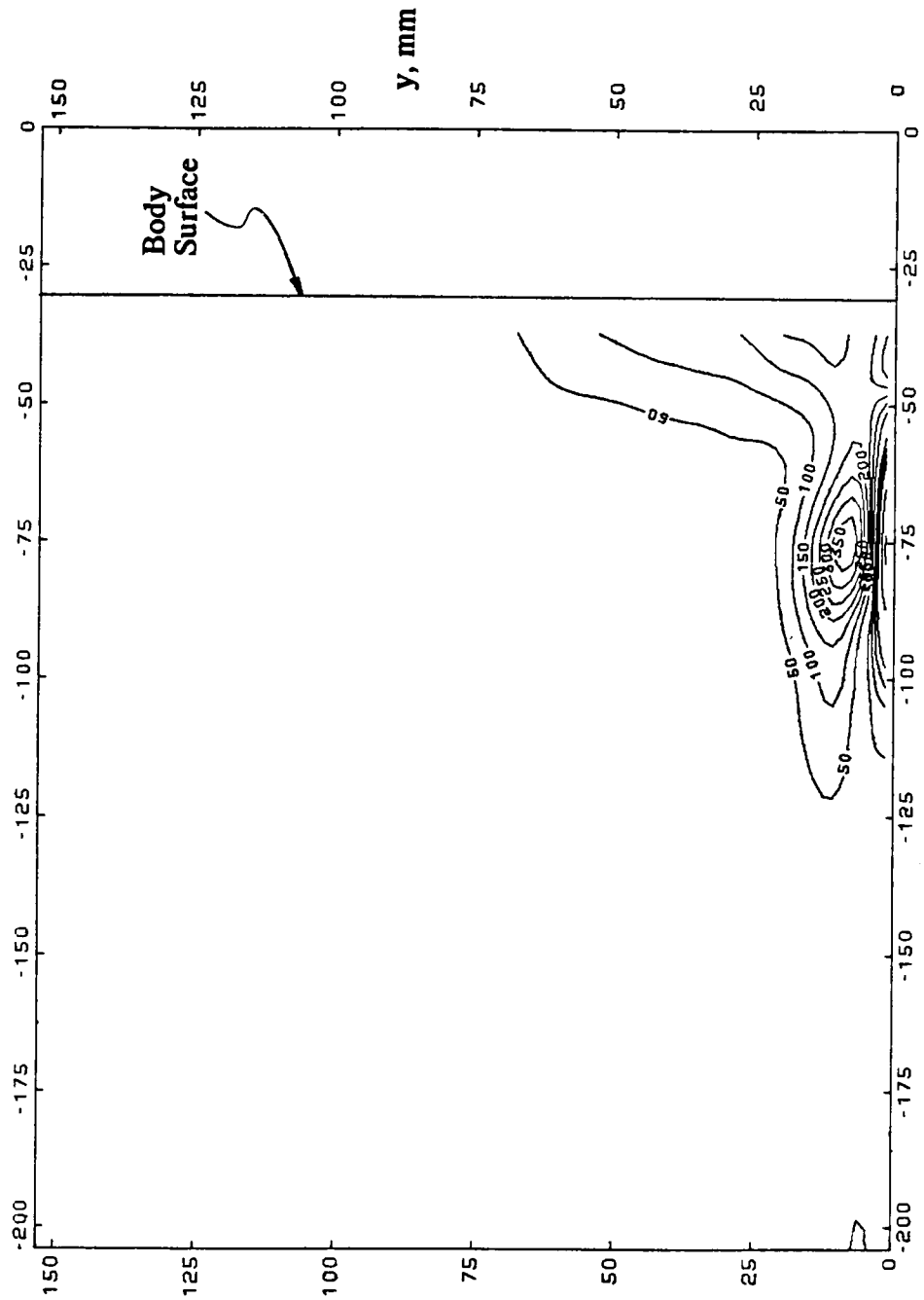


Fig. 4.35 x-Component Vorticity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body

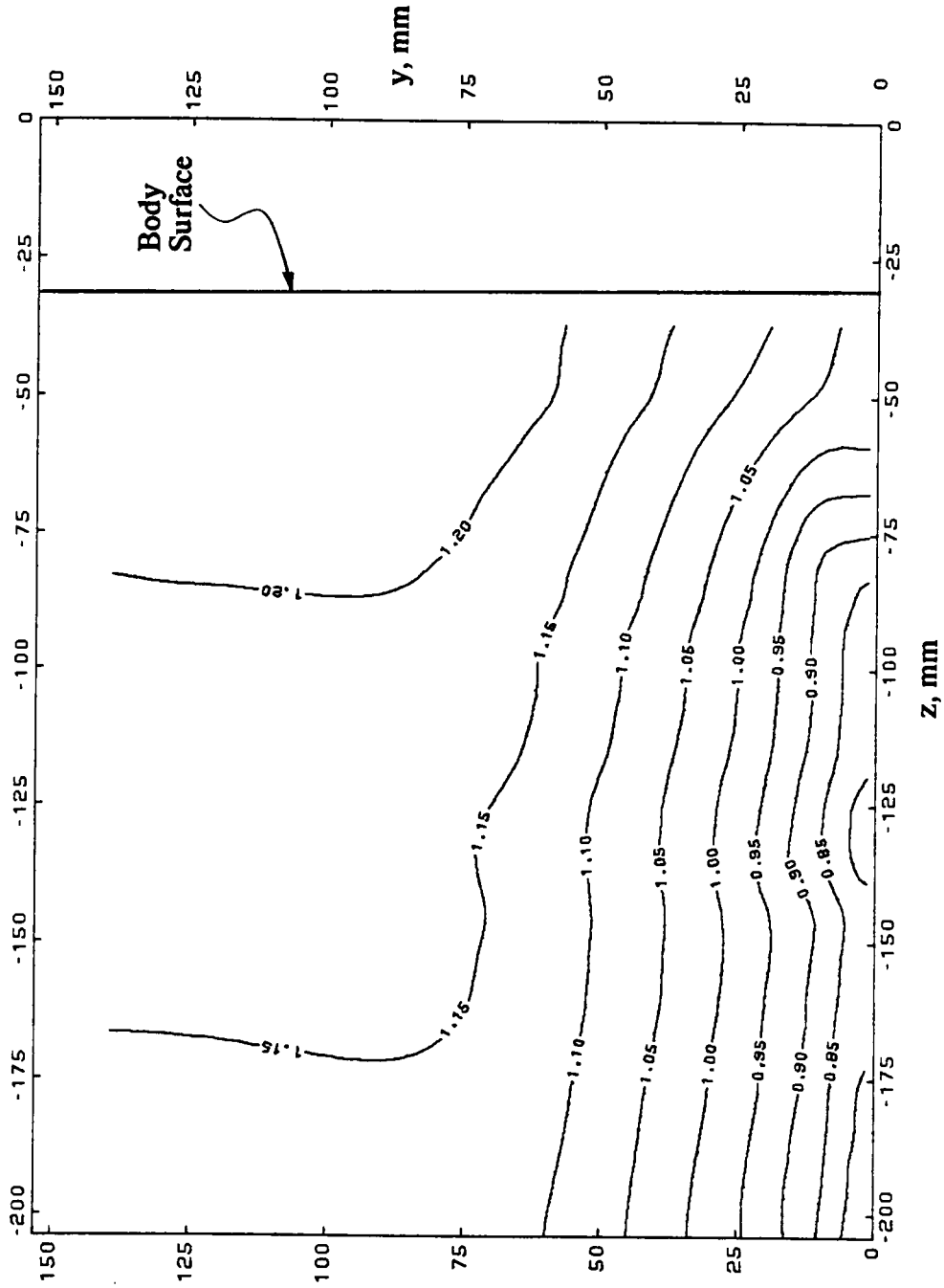


Fig. 4.36 U velocity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body

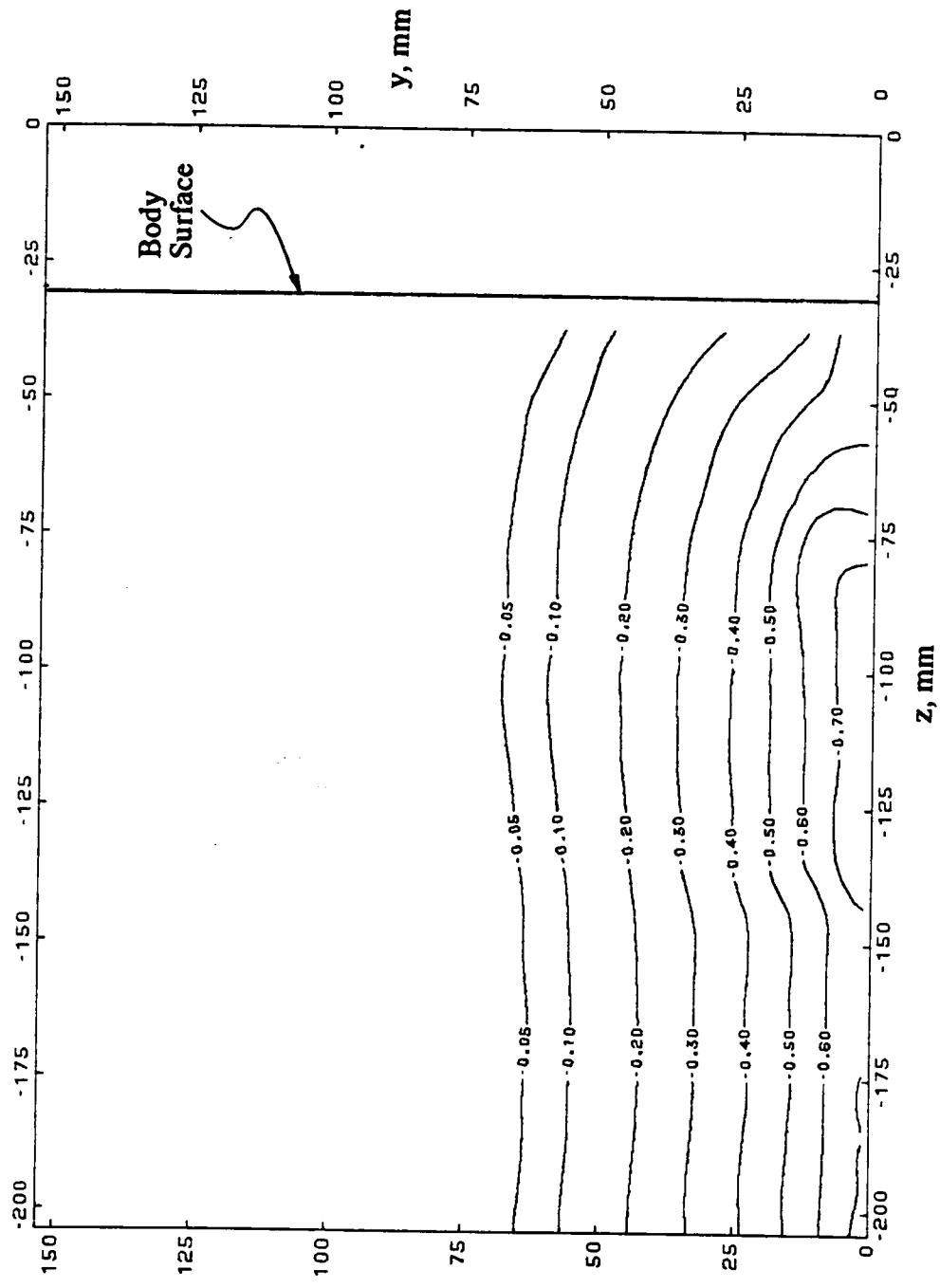


Fig. 4.37 Total Pressure Coefficient Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body

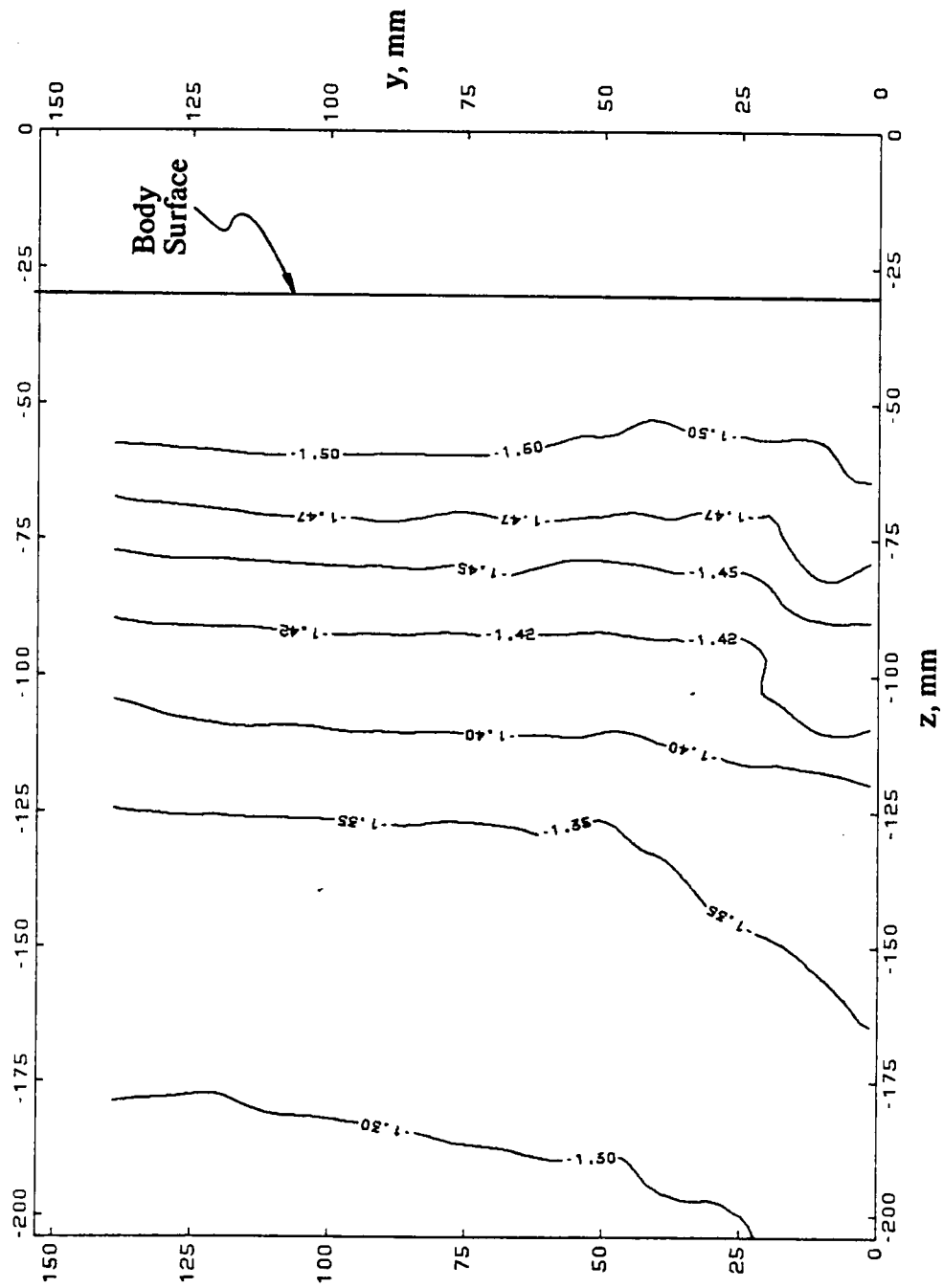


Fig. 4.38 Static Pressure Coefficient Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body

Figure 4.36 shows the U velocity distribution. The major features are similar to those seen in the maximum thickness plane. The accelerated flow seen close to the body in the region where y > 90 mm in the U velocity distribution at the maximum thickness plane seen in Fig. 4.31 has decayed due to growth of the body boundary layer. The area where the velocity contours are curved toward the floor near z = -75 mm has become larger indicating the junction vortex has affected a larger region of flow.

The total pressure distribution and the static pressure distribution are shown in Fig. 4.37 and Fig. 4.38. The total pressure appears to show the effects of the horseshoe vortex with a hump near z = -105 mm and close to the floor. The static pressure distribution shows nearly constant static pressure along the y direction except in the region near the floor.

4.3.5 100 Percent Chord Plane

This measurement plane is located at the trailing edge of the body. This plane is also coincident with the 100 percent chord plane investigated by Harsh [15] for the teardrop body. The secondary velocity vector distribution is shown in Fig. 4.39. The velocity vectors show a single vortex structure in the junction region, and their smaller magnitudes relative to the 43 percent chord location indicate a weaker vortex structure. The vortex center is seen near z = -60 mm and y = 10 mm. The z location corresponds to the high shear stress line in the floor surface flow visualization. The velocity vectors in the floor two-dimensional region show the inflow due to the tapering of the body approaching the trailing edge, with the flow tending to follow this body contour.

The x-component vorticity distribution is shown in Fig. 4.40. There appears to be four vorticity regions which are labeled as A, B, C, and D. The primary vorticity region

(region A) is seen with its core near z = -65 mm and y = 12 mm. The cross sectional area of the primary vorticity region has increased further, and the peak vorticity value has decreased to something of the order of 190/sec. The core has moved further away from the body and lifted further off the floor. A flat negative vorticity region (region B), seen right below the primary vorticity region, is believed to be due to the large velocity gradients between the first row of velocity vectors and the zero velocity at the tunnel floor. The W velocities at the first row of profiles in the region between - 75 mm < z < -30 mm are directed away from the body resulting in negative x-component vorticity. Likewise, a positive vorticity region (region C) away from the body is again due to velocity gradient between the first row of velocity data and the zero velocity at the tunnel floor. Here the W velocities near the floor are directed toward the body resulting in positive x-component vorticity.

A major difference from the x-component vorticity distribution at the 43 percent chord plane is the presence of a small region of positive vorticity (region D) in the extreme corner of the junction, which is taken as indicating the presence of a small co-rotating vortex. This vortex is stronger (peak vorticity value of 400/sec) than the primary horseshoe vortex and is tightly wound, suggesting its origin is located not far upstream of the trailing edge. As discussed in Section 4.1, this vortex is not the inner most counter-rotating vortex at the leading edge because this vortex is co-rotating with respect to the primary horseshoe vortex. This vortex is believed to be induced by a corner separation at the junction near the trailing edge, and the "V" shaped line seen near the trailing edge in the floor surface flow visualization is believed to be the projection of this corner separation vortex center. Sung and Yang [44] predicted a corner separation at the junction near the trailing edge in their numerical study of the junction flow around a geometrically similar

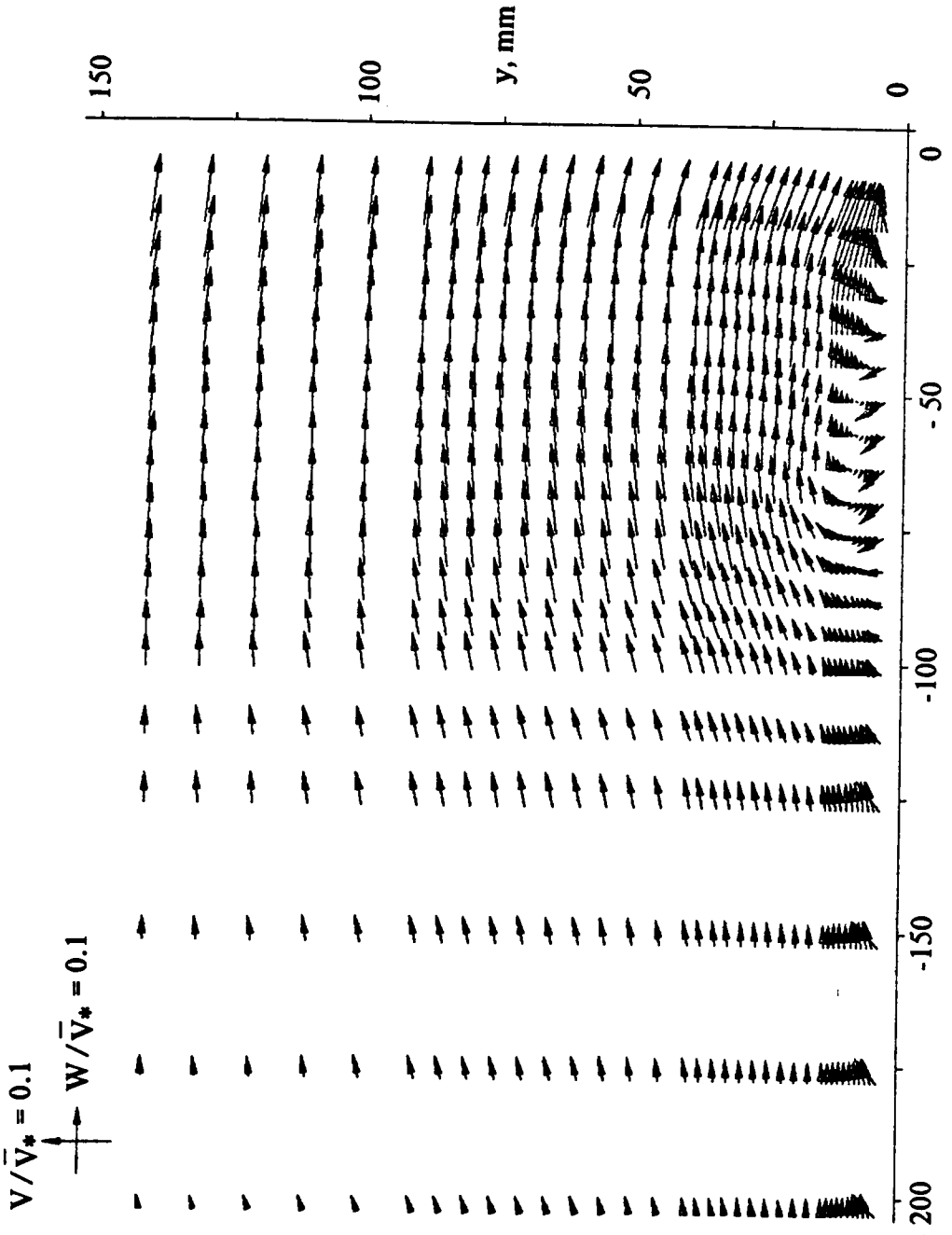


Fig. 4.39 Secondary Velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body

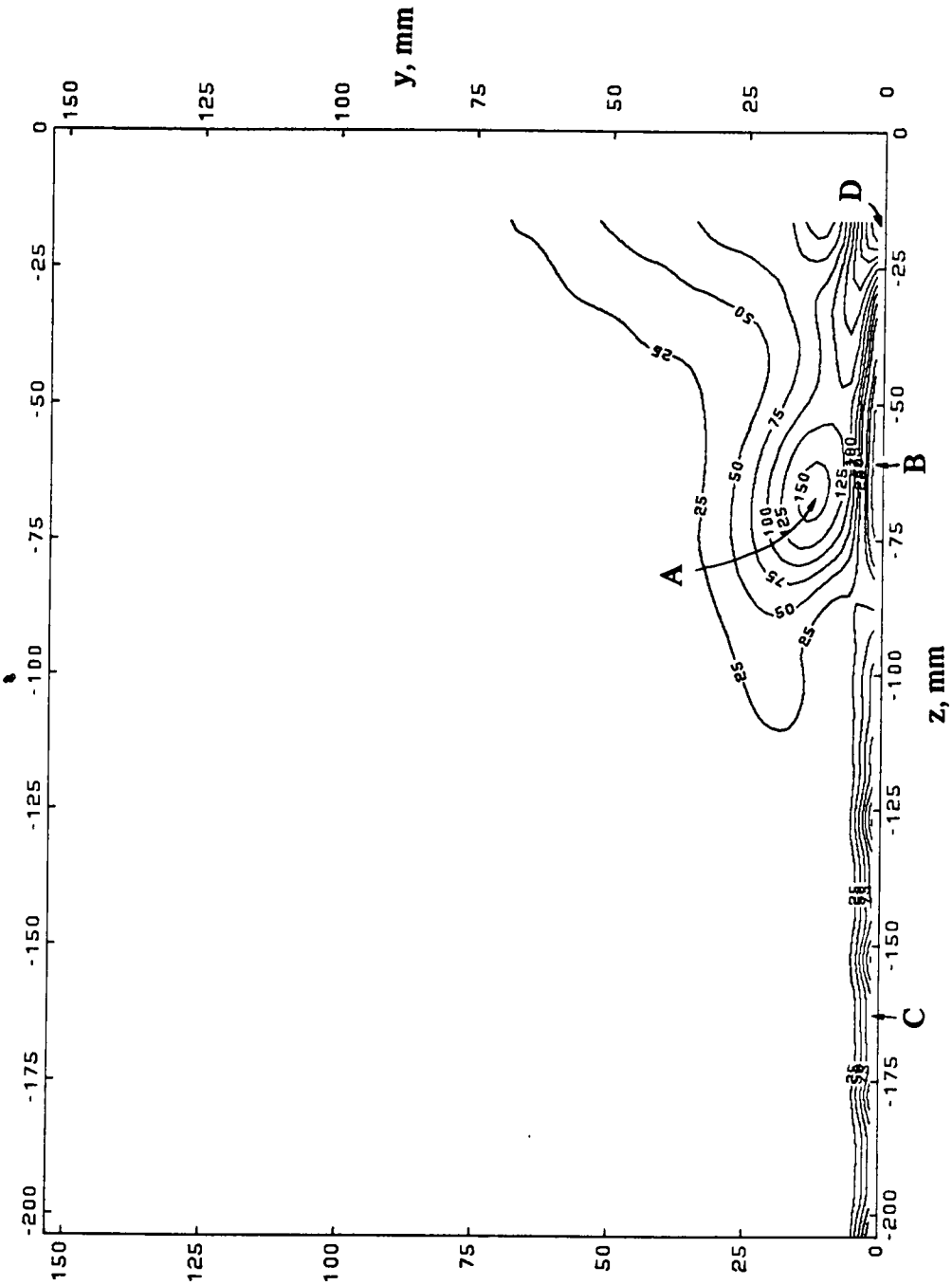


Fig. 4.40 x-Component Vorticity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body

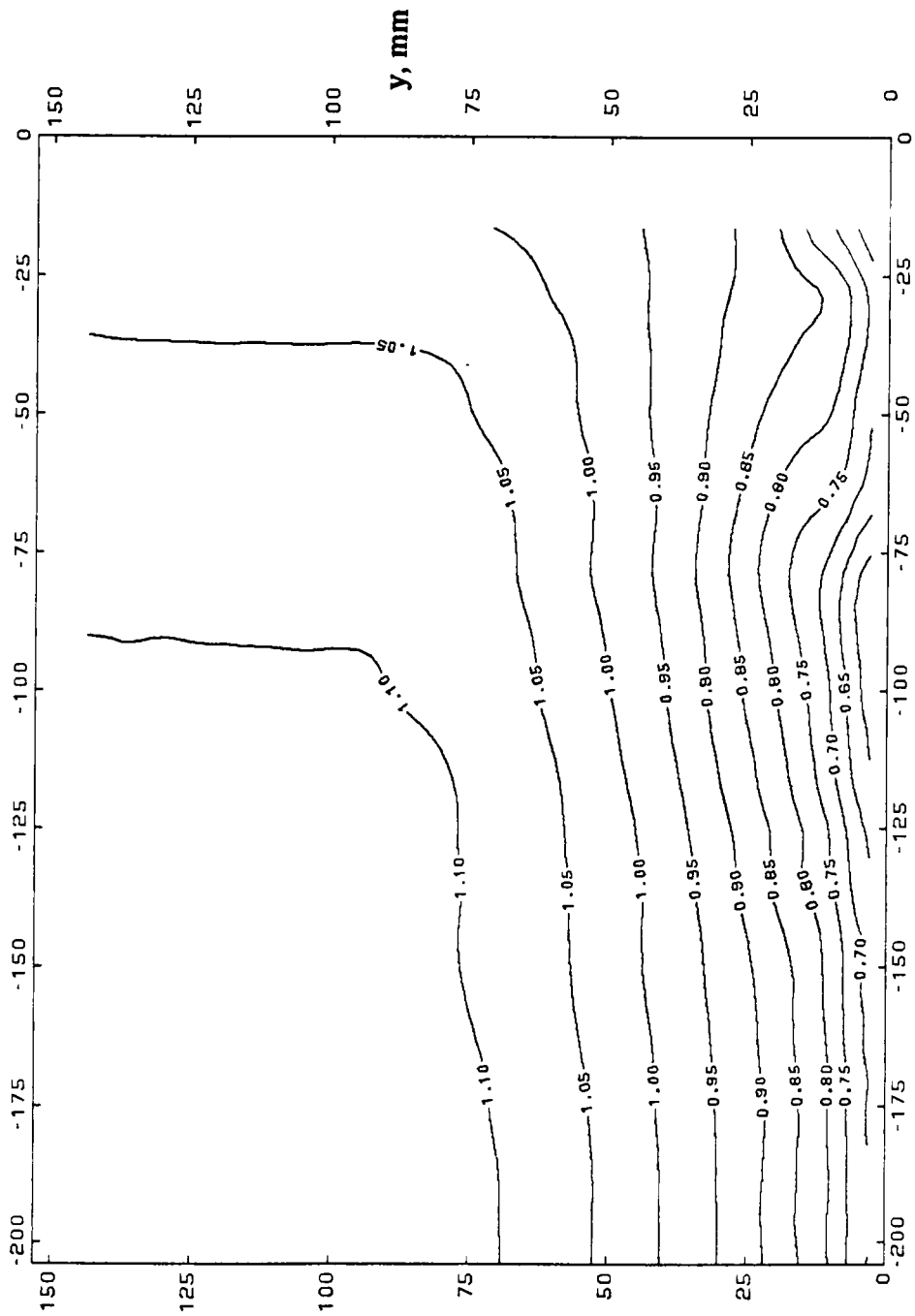


Fig. 4.41 U velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body

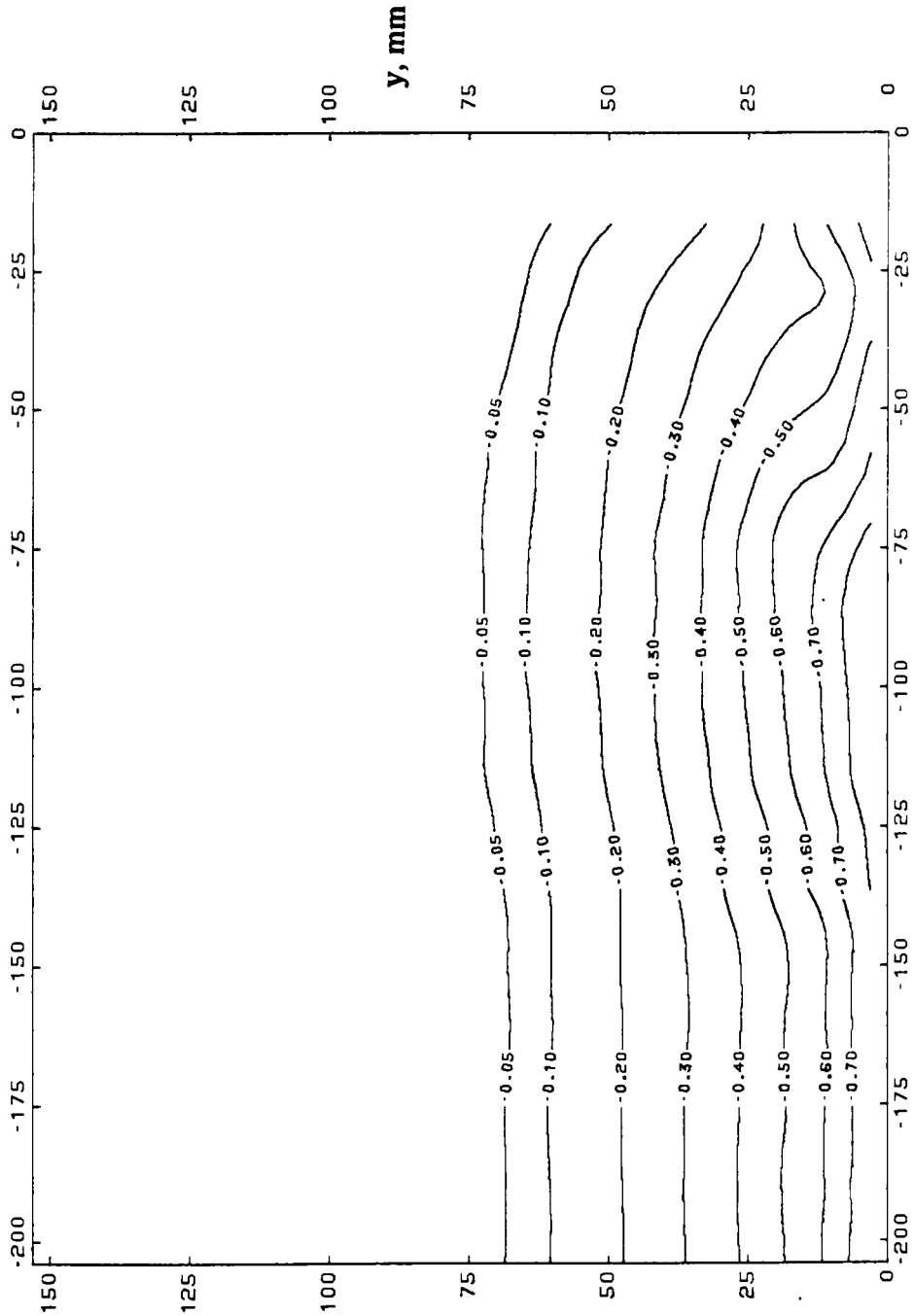


Fig. 4.42 Total Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body

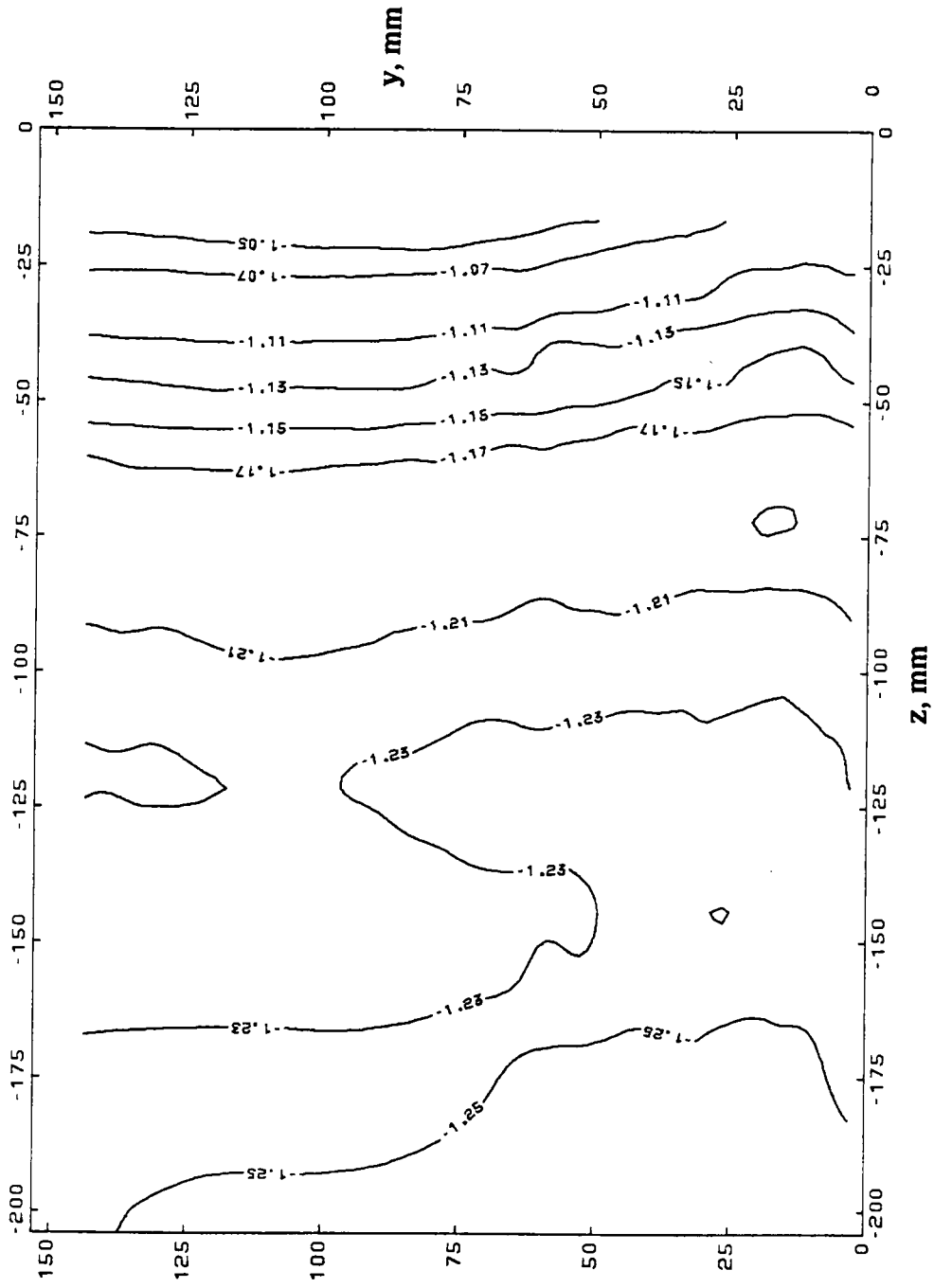


Fig. 4.43 Static Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body

body. They reported a co-rotating vortex due to the corner separation near the trailing edge, which is consistent with region D in Fig. 4.40.

Figure 4.41 shows the U velocity distribution. The accelerated flow seen close to the body at the maximum thickness plane has decayed significantly. The flow in the junction region looks significantly different from the contours at the 43 percent chord plane. Fluid with high U velocity flows into the corner of the junction. This inflow into the corner is believed to be caused by the downflow due to the primary horseshoe vortex as suggested in Fig. 4.39. In the corner of the junction, constant velocity contours are curved downward, then upward, forming a valley. This valley of contours indicates the effect of the corner separation vortex.

The total pressure distribution and the static pressure distribution are shown in Fig. 4.42 and Fig. 4.43. Low total pressure fluid is seen around z = -100 mm and close to the floor. Contours are curved downward near z = -60 mm, which shows higher total pressure fluid of the freestream flow swept toward the floor by the downflow caused by the primary horseshoe vortex. A valley of contours seen near z = -25 mm is consistent with the U velocity distribution. The static pressure distribution shows nearly constant static pressure along the y direction, except in the region where the primary horseshoe vortex was seen.

4.3.6 150 Percent Chord Plane

This measurement plane is located downstream of the body in the near wake. This location was chosen to document the near wake flow, and to provide comparison with the measurement plane investigated by Pierce, et al. [53,54] for the teardrop body. The secondary velocity vector distribution is shown in Fig. 4.44. In the regions away from the

floor and the tunnel centerline, there is essentially no secondary flow. A large single vortex structure is seen centered around z = -65 mm and y = 23 mm. It is noted that there is a very large difference in the magnitudes of the secondary velocity vectors above and below the vortex center. A small downflow is seen along the y axis. Since the y axis represents a tunnel centerline, the W velocity would ideally be zero along the y axis.

The x-component vorticity distribution is shown in Fig. 4.45. The small corner separation vortex originating near the trailing edge has moved closer to the primary horseshoe vortex and formed one large vorticity region. The z location of the primary horseshoe vortex corresponds well with the high shear stress line, and the z location of the corner separation vortex corresponds to the "V" shaped line on the floor surface flow visualization. The peak value of the primary vorticity seems to be stabilized at 190/sec but the peak value of the corner vorticity decreased to something of the order of 200/sec. A strong negative vorticity region underneath the primary positive vorticity region is again attributed to the velocity gradients between the first row of the velocity vectors and the zero velocity at the floor, and the sign is consistent with an outflow along the floor as seen in the secondary velocity field of Fig. 4.44.

Figure 4.46 shows the U velocity distribution. High U velocity fluid is seen around z = -50 mm, which is believed to be swept toward the floor by the downflow caused by the primary horseshoe vortex. The downflow on the right of the primary horseshoe vortex center and upflow on the left of the primary horseshoe vortex center cause the contours to form a raised distribution around z = -100 mm. The area covered by this raised region distribution has grown larger due to the larger scale of the vortex seen in the secondary velocity vector distribution compared to the 100 percent chord plane. A valley of contours formed to the right of the raised region is identified with the corner

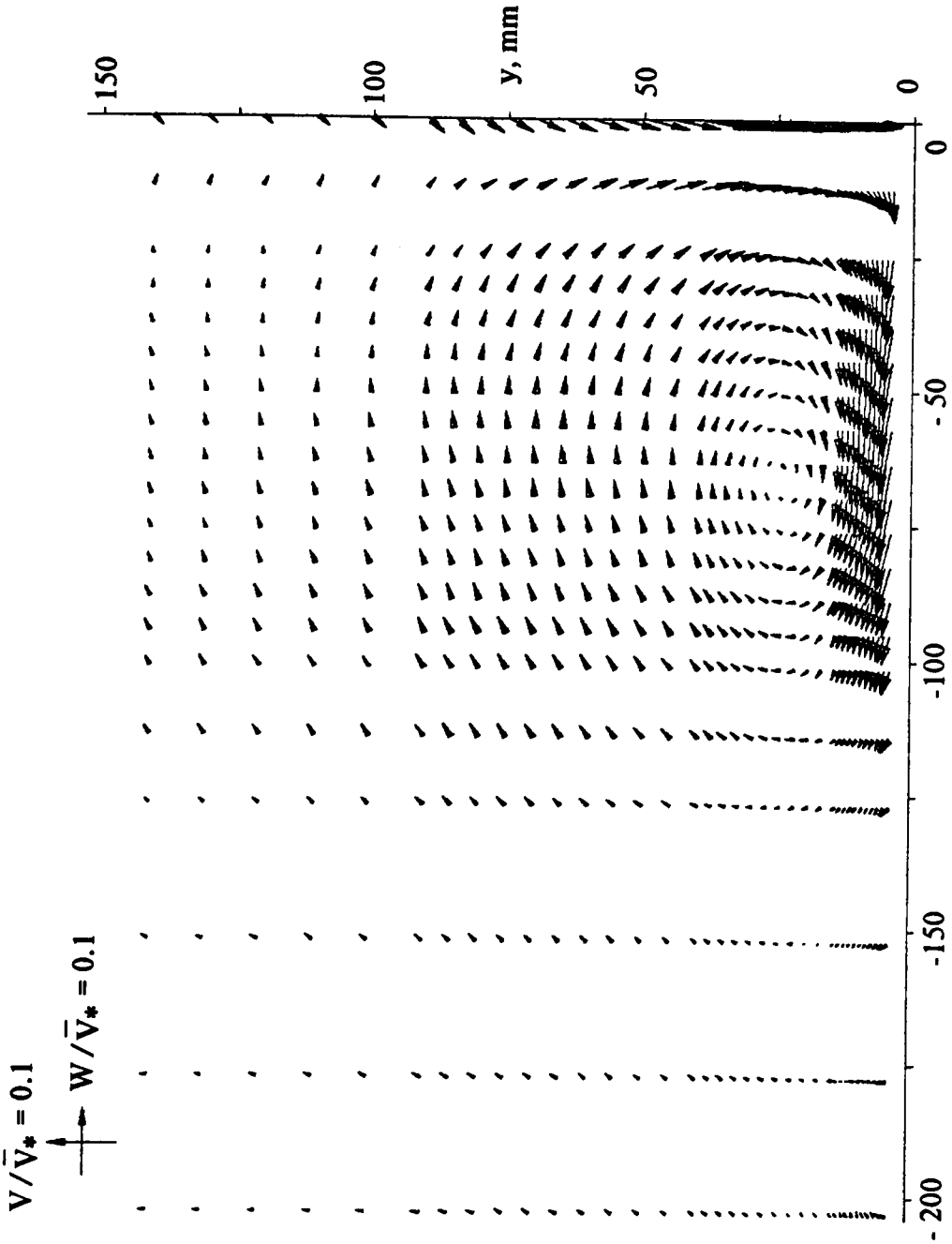


Fig. 4.44 Secondary Velocity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body

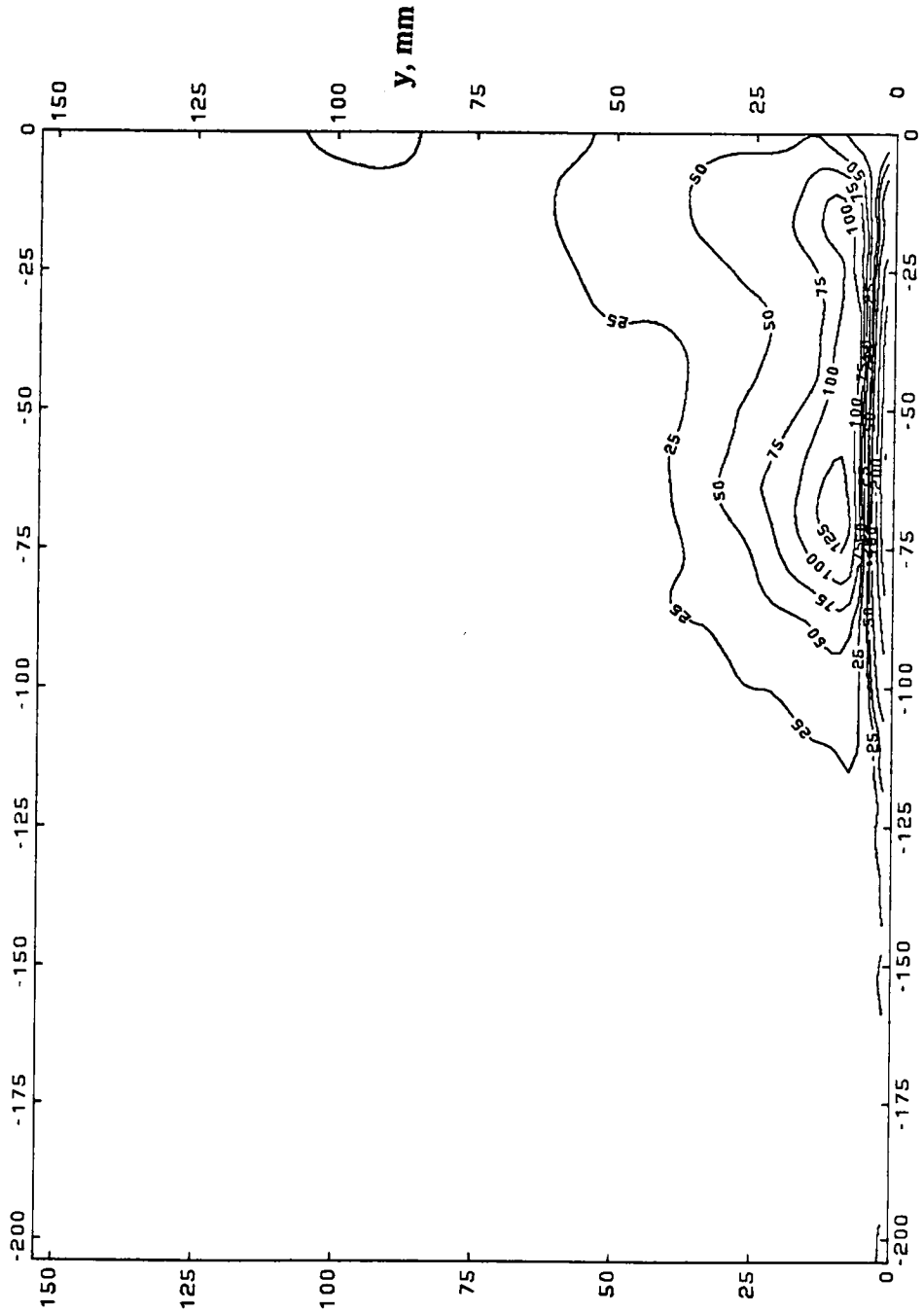


Fig. 4.45 x-Component Vorticity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body

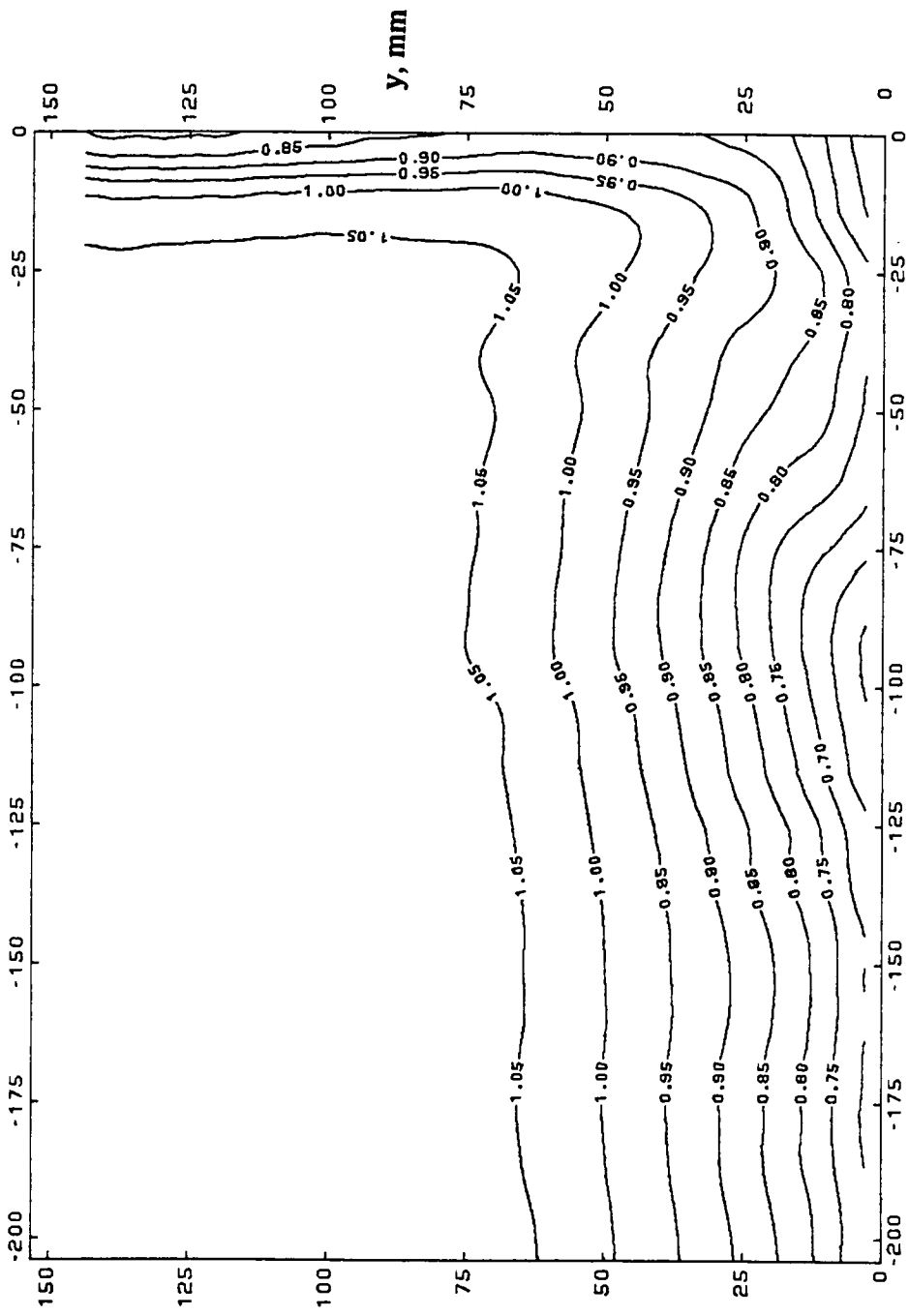


Fig. 4.46 U velocity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body

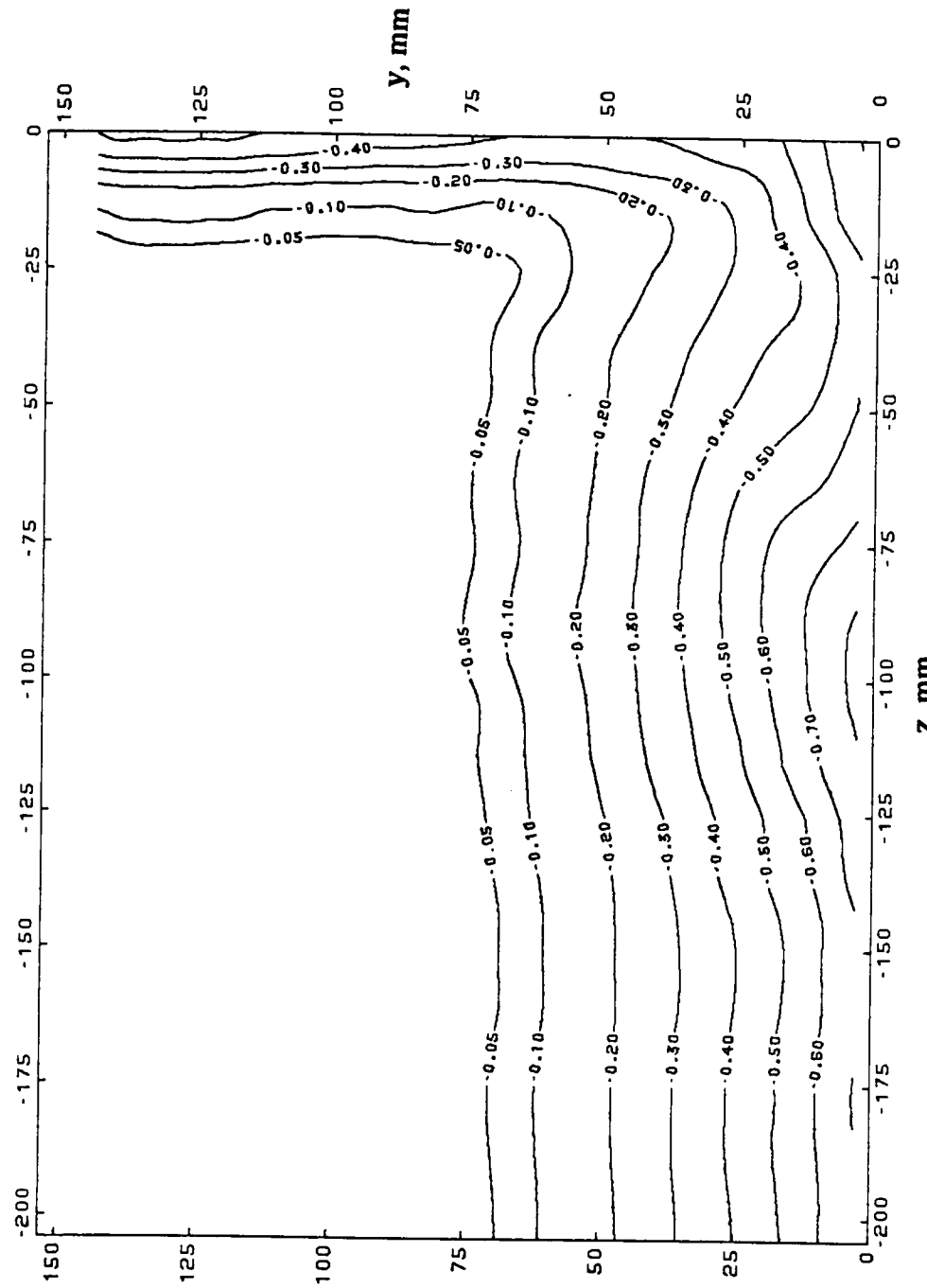


Fig. 4.47 Total Pressure Coefficient Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body

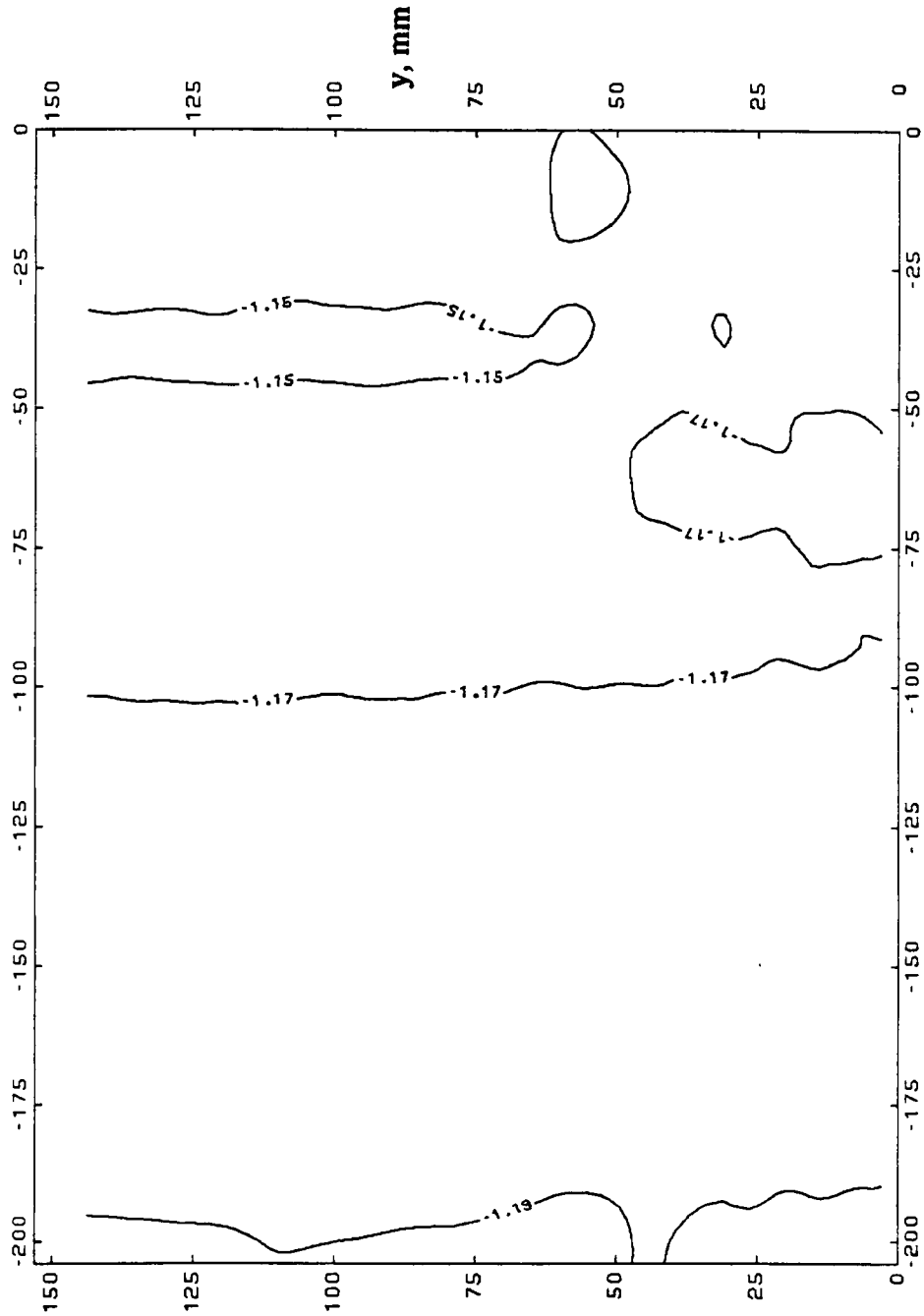


Fig. 4.48 Static Pressure Coefficient Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body

separation vortex. A wake like defect from the boundary layer on the body is seen clearly along the tunnel centerline.

The total pressure distribution and the static pressure distribution are shown in Fig. 4.47 and Fig. 4.48. The total pressure distribution is consistent with the U velocity distribution. The static pressure distribution shows the nearly constant static pressure across the region.

4.3.7 Comparisons with the Teardrop Body

Comparisons were made with the teardrop body and this 1.5:1 elliptical nose body at the 43, 100, and 150 percent chord planes to investigate the effects of the nearly 50 percent reduction of the body thickness on the secondary flow field. The essential features shown in the graphical results at each corresponding plane are similar between the two bodies, so the graphical results of the teardrop body are shown only at the 100 percent chord location in Figs. 4.49 through 4.53.

The secondary velocity vector distribution for the teardrop body in Fig. 4.49 shows a primary horseshoe vortex, centered around z = -105 mm and y = 18 mm, which is much larger and stronger than the primary horseshoe vortex seen at the 100 percent chord plane for the 1.5:1 elliptical nose body. There appears to be one more vortex structure close to the floor, centered around z = -45 mm and y = 9 mm. This vortex structure was not observed for the 1.5:1 elliptical nose body.

The x-component vorticity distribution is shown in Fig. 4.50. There appears to be four vorticity regions of interest which are labeled as A, B, C, and D. The positive vorticity region, A, is identified with the primary horseshoe vortex. The peak value is something of the order of 300/sec which is much larger than the peak value of the primary

vorticity (190/sec) for the 1.5:1 elliptical nose body. The negative vorticity region, B, is believed to be induced by velocity gradients (mainly W velocity gradients) between the first row of the velocity vectors and the zero velocity at the floor. The W velocities at the first row of profiles are directed away from the body resulting in negative x-component vorticity. The positive vorticity region, C, is believed to be identified with the corner separation vortex as for the 1.5:1 elliptical nose body. The floor surface flow visualization of the teardrop body also shows the "V" shaped lines near the trailing edge, suggesting that the corner separation occurs near the tailing edge. This vorticity is also consistent with the small vortex structure seen in the secondary velocity distribution of Fig. 4.49. The peak value of this vorticity (250/sec) is smaller than that (400/sec) for the 1.5:1 elliptical nose body, suggesting that the corner separation region is smaller for the teardrop body. The positive vorticity region, D, was not seen in the x-component vorticity distribution for the 1.5:1 elliptical nose body. This vorticity appears to be caused by W velocity gradients seen close to the floor and near the body.

The U velocity distribution for the teardrop body in Fig. 4.51 shows a large region of the distorted contours around z = -115 mm and y = 20 mm due to the stronger primary horseshoe vortex. The contours in the corner of the junction show the effect of the corner separation vortex.

The total pressure distribution shown in Fig. 4.52 is consistent with the U velocity distribution. The static pressure distribution in Fig. 4.53 shows almost constant static pressure along the y direction except in the region where the primary horseshoe vortex was seen indicating the effect of the primary horseshoe vortex. The total and static pressure distributions tend to show larger variations, consistent with a larger primary horseshoe vortex structure, than do these corresponding distributions for the smaller primary horseshoe vortex of the 1.5:1 elliptical nose body. The total and static pressure

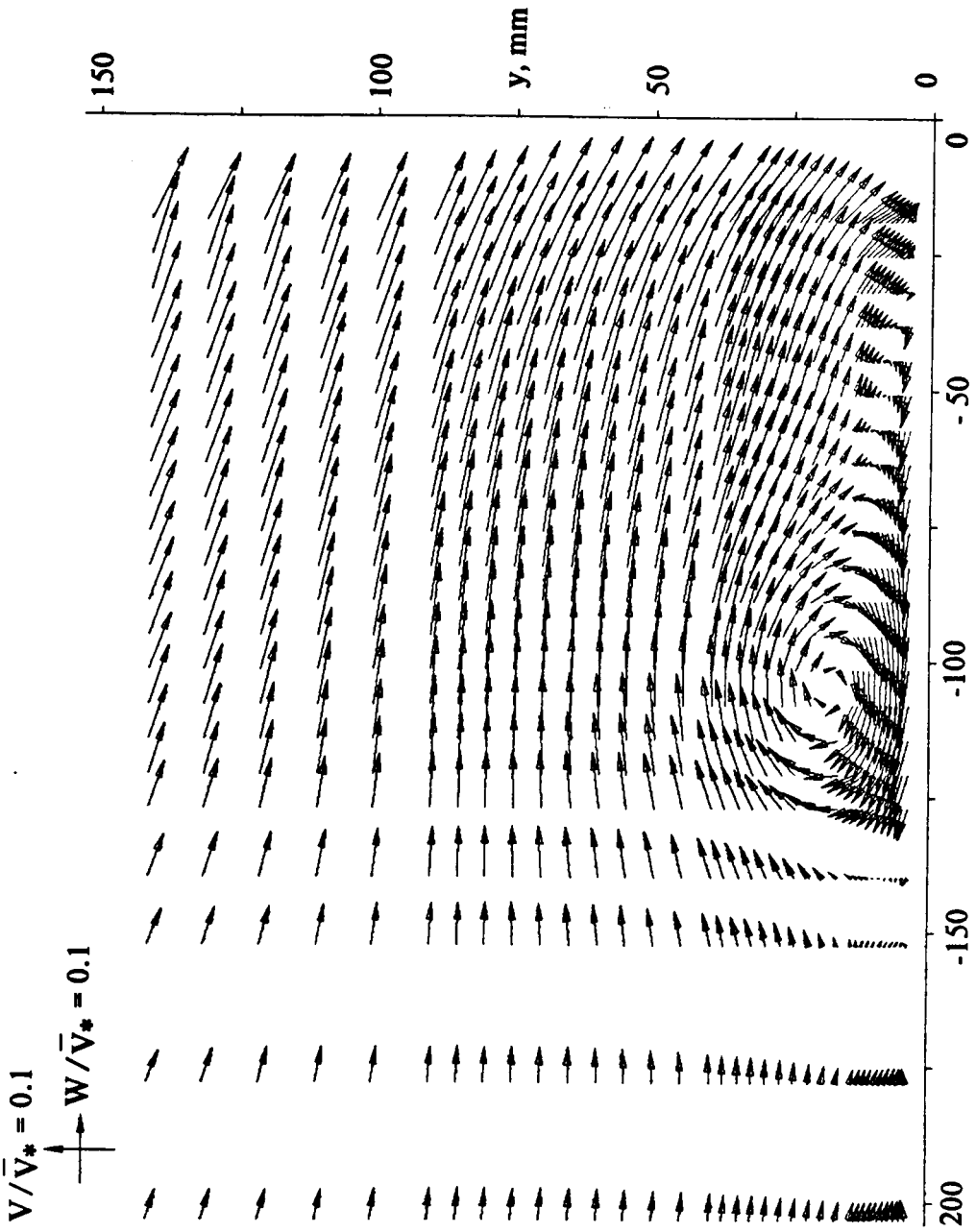


Fig. 4.49 Secondary Velocity Distribution at 100 Percent Chord for the Teardrop Body

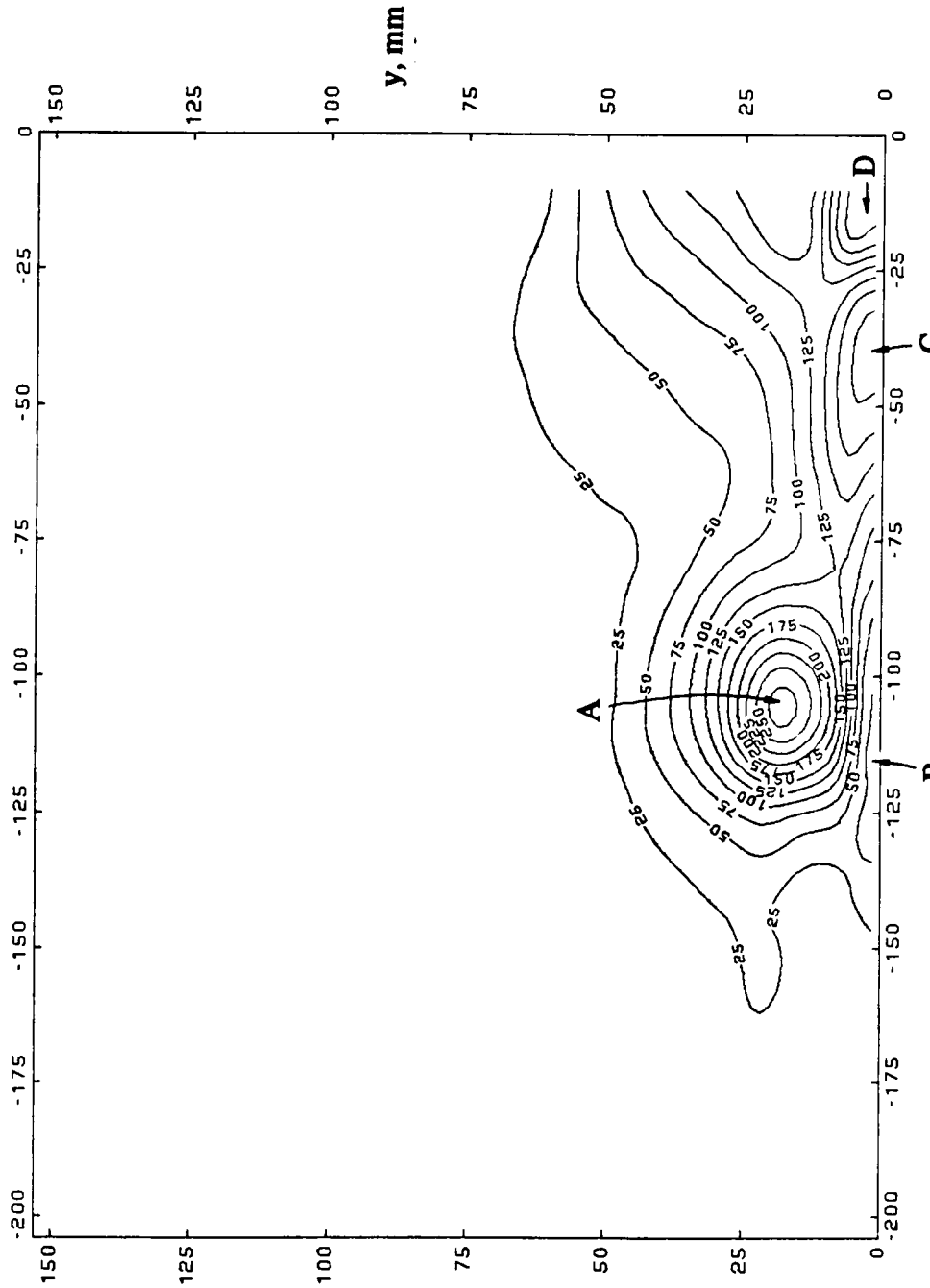


Fig. 4.50 x-Component Vorticity Distribution at 100 Percent Chord for the Teardrop Body

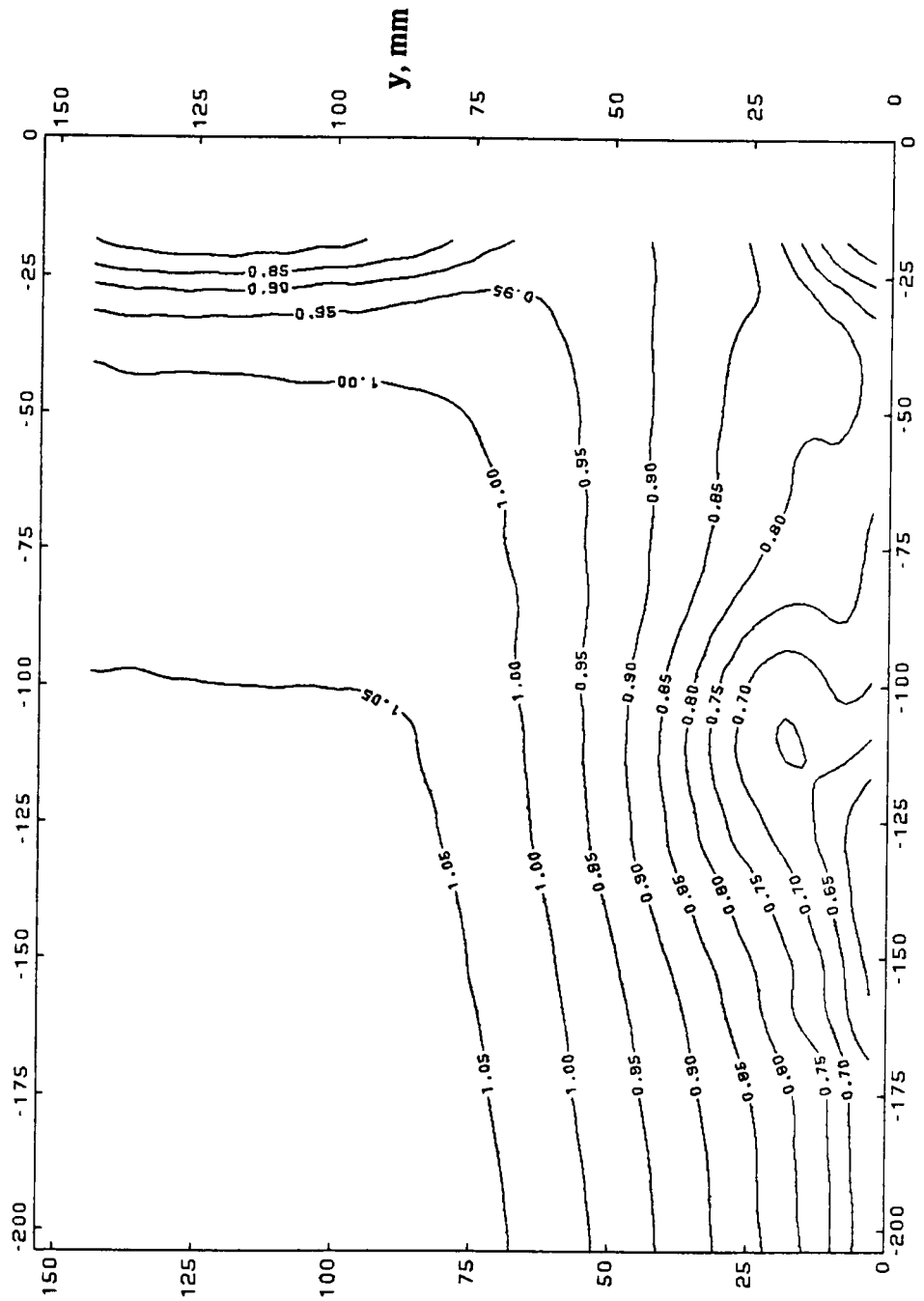


Fig. 4.51 U velocity Distribution at 100 Percent Chord for the Teardrop Body

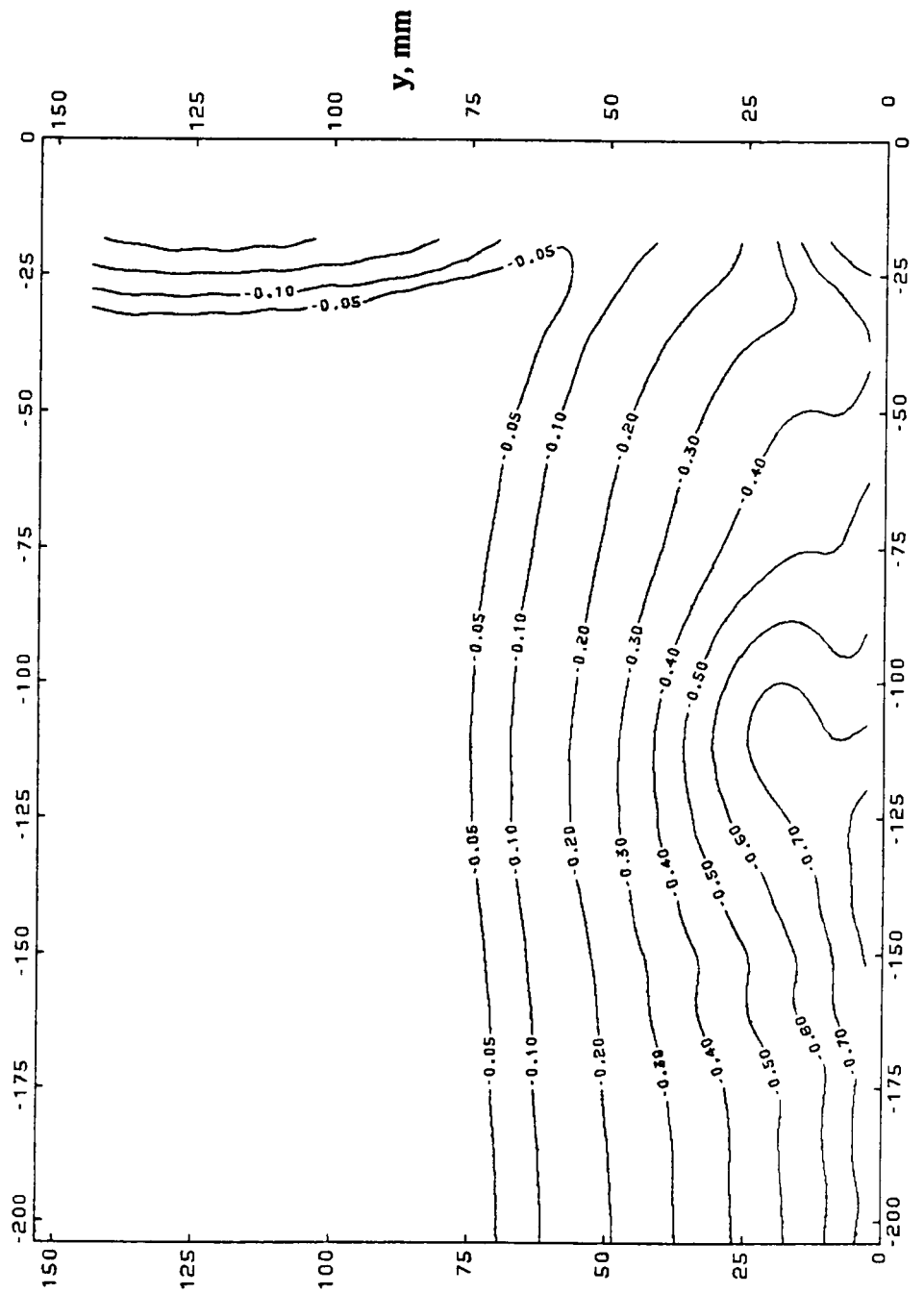


Fig. 4.52 Total Pressure Coefficient Distribution at 100 Percent Chord for the Teardrop Body

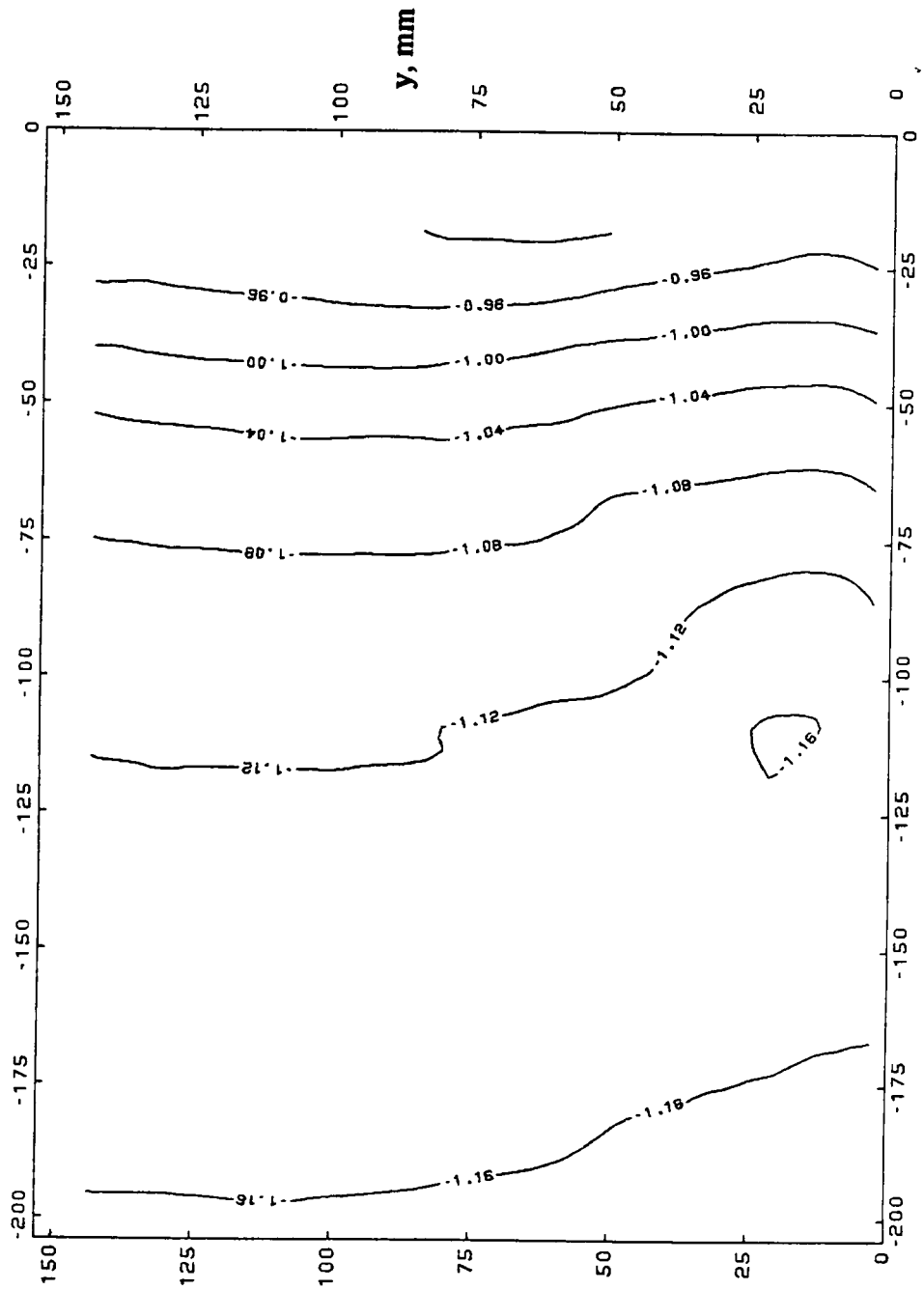


Fig. 4.53 Static Pressure Coefficient Distribution at 100 Percent Chord for the Teardrop Body

distributions show qualitatively similar features compared with those for the 1.5:1 elliptical nose body.

Based on the flow visualizations and experimental results, it is evident that the 1.5:1 elliptical nose body generated a weaker secondary flow and reduced the size and strength of the primary horseshoe vortex.

4.3.8 Comparisons with Other Studies

Dickinson [33] made oil-dot and oil-film floor flow visualizations, and three-dimensional mean and fluctuating velocity measurements using hot-films around and in the wake of a NACA 0020 body with a 1.5:1 elliptical nose. The body, with a chord of 259 mm (10.2 in.) and a thickness of 61 mm (2.4 in.), is geometrically similar to the 1.5:1 elliptical nose body used for the present study. The Reynolds number based on the body thickness was 1.2×10^5 which is very close to the Reynolds number of 1.0×10^5 for the present study.

Comparing Dickinson's results with the results of the present study, two major differences are observed. Dickinson reported a small counter-rotating vortex relative to the primary vortex in the extreme corner of the junction between the primary horseshoe vortex and the body based on the oil-dot flow visualization. He supported the presence of this small counter-rotating vortex with the fact that x-component vorticity distributions, computed from measured secondary velocities, in the measurement planes around the body show vorticity with the opposite sign relative to the primary vorticity in the corner of the junction. The present study did not show any evidence of the presence of the counter-rotating vortex around the body. It needs to be noted that Dickinson's conclusion was based on significantly fewer measured velocities than the present study.

According to Dickinson, this counter-rotating corner vortex, originating at the leading edge, wraps around the body and leaves the body near the trailing edge. Dickinson observed no corner separation near the trailing edge, and concluded that "V" shaped lines seen near the trailing edge on the oil-film floor flow visualizations were from the counter-rotating corner vortex at the leading edge. The present study also observed the "V" shaped line on the oil-film floor flow visualization, and a corner vortex which corresponds well with the "V" shaped line at the 100 and 150 percent chord planes. However, the corner vortex seen in the present study is a co-rotating vortex relative to the primary horseshoe vortex, suggesting that this corner vortex is different from the corner vortex originating at the leading edge.

Sung and Yang [44] developed a computer code to solve for the steady-state solution of the three-dimensional incompressible Reynolds-averaged Navier-Stokes equations. This numerical procedure was used to simulate Dickinson's experiment for the code validation. Sung and Yang [44] reported a counter-rotating corner vortex at the leading edge based on their numerical solutions, which agrees with the Dickinson's observation. They also reported a corner separation at the junction near the trailing edge and a co-rotating corner vortex formed due to this corner separation. Their results are consistent with the co-rotating vortex observed in the present study. Hence, it is believed that the co-rotating corner vortex seen at the 100 and 150 percent chord plane is identified with the corner separation at the junction near the trailing edge.

4.4 Leading Edge Shape Effects

The primary mechanism believed to generate the junction flow is not dominated by viscous or turbulent stresses and is therefore found in both laminar and turbulent flows.

The transport equation of x-component mean vorticity for a turbulent flow is given by:

$$U\frac{\partial \Omega_x}{\partial x} + V\frac{\partial \Omega_x}{\partial y} + W\frac{\partial \Omega_x}{\partial z} = \Omega_x\frac{\partial U}{\partial x} + \Omega_y\frac{\partial U}{\partial y} + \Omega_z\frac{\partial U}{\partial z}$$
$$+ \left[\frac{\partial^2}{\partial y^2} - \frac{\partial^2}{\partial z^2}\right](-\overline{vw}) + \frac{\partial^2}{\partial y \partial z}(\overline{v}^2 - \overline{w}^2) + \nu\nabla^2\Omega_x . \qquad (4.14)$$

For laminar flow, the qualitative effect of the body nose shape on the strength of the secondary flow can be explained. Let us consider an inviscid laminar flow and neglect terms representing the convection of the vorticity by V and W. Then Eq. 4.14 reduces to:

$$U\frac{\partial \Omega_x}{\partial x} = \Omega_x\frac{\partial U}{\partial x} + \Omega_y\frac{\partial U}{\partial y} + \Omega_z\frac{\partial U}{\partial z} . \qquad (4.15)$$

Assuming Ω_Y is negligible compared with Ω_X and Ω_Z, Eq. 4.15 can be written as:

$$U\frac{\partial \Omega_x}{\partial x} = \Omega_x\frac{\partial U}{\partial x} + \Omega_z\frac{\partial U}{\partial z} . \qquad (4.16)$$

But:

$$\frac{\partial}{\partial x}\left[\frac{\Omega_x}{U}\right] = \frac{1}{U^2}\left[U\frac{\partial \Omega_x}{\partial x} - \Omega_x\frac{\partial U}{\partial x}\right] . \qquad (4.17)$$

Substitute Eq. 4.17 into Eq. 4.16:

$$\frac{\partial}{\partial x}\left[\frac{\Omega_x}{U}\right] = \frac{\Omega_z}{U^2}\frac{\partial U}{\partial z} . \qquad (4.18)$$

Since $\Omega_y \left(\frac{\partial U}{\partial z} - \frac{\partial W}{\partial x}\right)$ is essentially zero in the two-dimensional like flow upstream of the body, $\frac{\partial U}{\partial z}$ is initially equal to $\frac{\partial W}{\partial x}$. Therefore, Eq. 4.18 can be written as:

$$\frac{\partial}{\partial x}\left[\frac{\Omega_x}{U}\right] = \frac{\Omega_z}{U^2}\frac{\partial W}{\partial x} . \tag{4.19}$$

Equation 4.19 indicates that the x-component vorticity increases in a region of low U velocity and high transverse gradient. This means that a blunter nose generates a stronger x-component vorticity. However, there are no satisfactory calculation methods for secondary flows associated with floor boundary layers, so the flow cannot be predicted in detail.

Several investigators [33,82-85] reported the effect of the leading edge shape on a junction flow. Consistent with the above analysis they found that bluntness increases the downstream x-component vorticity. The present study documents leading edge shape effects on the strength of the horseshoe vortex in greater detail and in a systematic way. The results provide a data base to compare the effectiveness of leading edge shape changes with that of fillets on controlling the x-component vorticity.

As described in Section 2.3.1, three different nose shapes were used. To keep the same maximum thickness as the 1.5:1 elliptical nose body, the chord lengths of the 4:1 elliptical nose body and the 4:1 wedge elliptical nose body had to be increased. Since the major factor in controlling the strength of the x-component vorticity is the nose shape, it was judged more desirable to have the same maximum thickness rather than the same chord length.

4.4.1 4:1 Elliptical Nose Body

This body has the same maximum thickness (71 mm) and the same profile, extending from the maximum thickness to the trailing edge, as the 1.5:1 elliptical nose body. As a result of the nose modification, this body has a longer chord length (391 mm). The flow field was documented at three measurement planes, including the maximum thickness plane, the 100 and the 150 percent chord planes.

4.4.1.1 Maximum Thickness Plane

The secondary velocity vector distribution is shown in Fig. 4.54. The secondary velocity field appears to be relatively weak, except for the flow region near the floor and at the corner. The boxed region in Fig. 4.54 is magnified and shown in Fig. 4.55 where a vortex structure appears to be seen. A weak vortex centered about z = -60 mm and y = 36 mm is seen in Fig. 4.55. Even though the magnitudes of the velocity vectors are very small, the velocity vectors are consistent in showing a vortex structure. As discussed in Section 4.3.1, a plane orthogonal to the local flow direction gives a representation of the secondary velocity distribution that is more easily interpreted to agree with a physical description of the flow than does a transverse plane. The floor surface flow visualization for the 4:1 elliptical nose body shows that the streamlines at the maximum thickness location follow the body contour very closely since a distinct separation line around the body was absent on the floor surface flow visualization. This suggests the transverse measurement plane at this location is more nearly orthogonal to the flow direction, at least near the floor. Thus this transverse measurement plane gives a good representation of the

secondary velocity distribution to show any vortex structure that might exist, and it does show a vortex structure.

The x-component vorticity distribution is shown in Fig. 4.56. A primary positive vorticity region is seen with its core centered about z = -64 mm and y = 7 mm. The location of the vorticity core is almost coincident with that for the 1.5:1 elliptical nose body but the peak vorticity value (300/sec) is only one third of the peak vorticity value of the 1.5:1 elliptical nose body. The cross sectional area of the primary positive vorticity region is also smaller indicating a weaker secondary flow. A negative vorticity region seen below the primary positive vorticity region is caused by velocity gradients (mainly W velocity gradients) between the first row of velocity vectors and the zero velocity at the floor. The sign is consistent with the outflow along the floor as seen in the secondary velocity distribution of Fig. 4.54.

Figure 4.57 shows the U velocity distribution. Accelerated flow near the body in the body two-dimensional region (y > 90 mm) has decayed compared with the 1.5:1 elliptical nose body. The velocity contours are curved toward the floor for small y values near z = -60 mm indicating the effect of the vortex. The slopes of these curved contours are not as steep as those for the 1.5:1 elliptical nose body suggesting a weaker vortex, which is consistent with the results discussed above.

The total pressure distribution and static pressure distribution are shown in Fig. 4.58 and Fig. 4.59. The total pressure distribution is well behaved and consistent with the U contours in Fig. 4.57. The static pressure distribution shows nearly constant static pressure along the y direction.

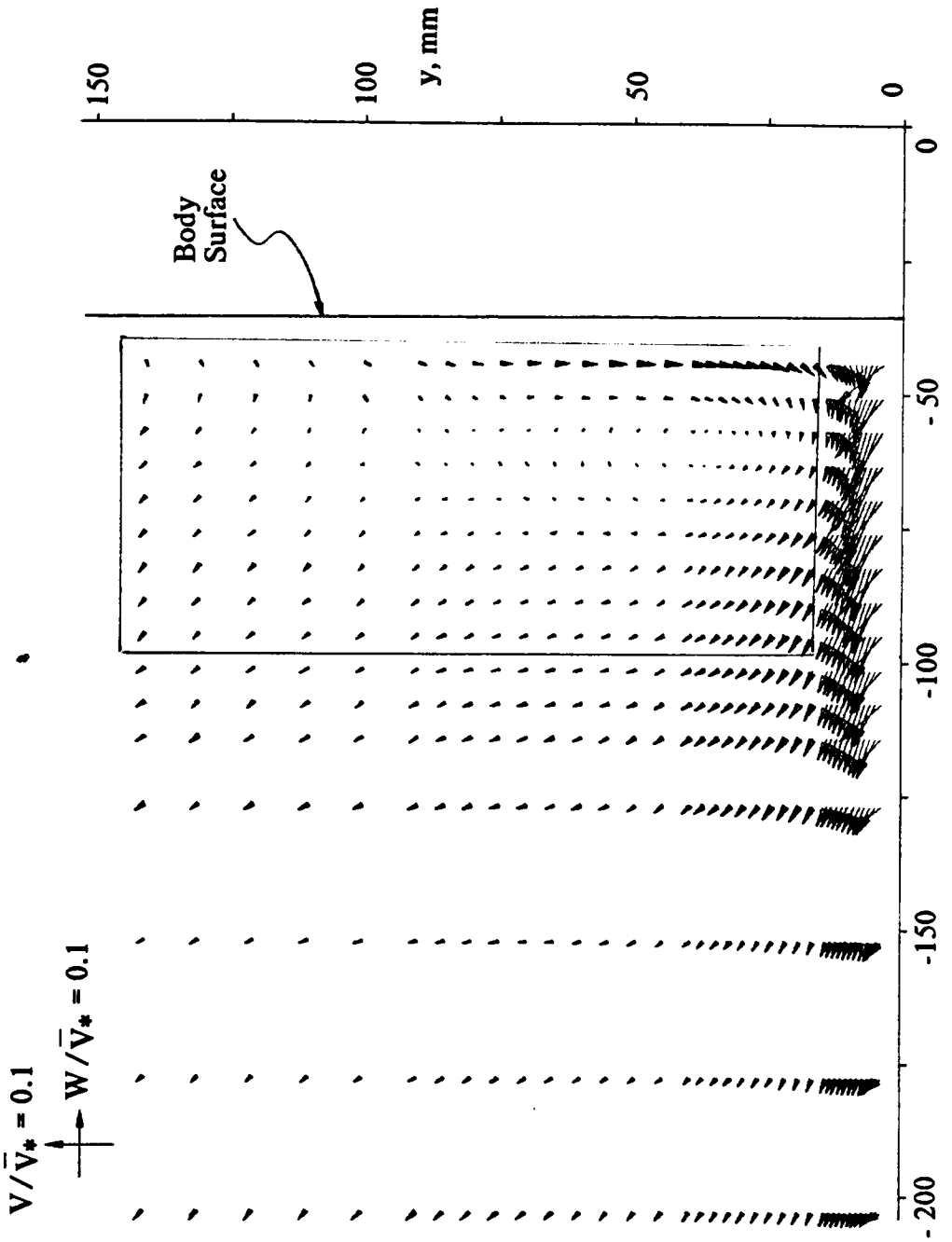


Fig. 4.54 Secondary Velocity Distribution at Maximum Thickness Position for the 4:1 Elliptical Nose Body

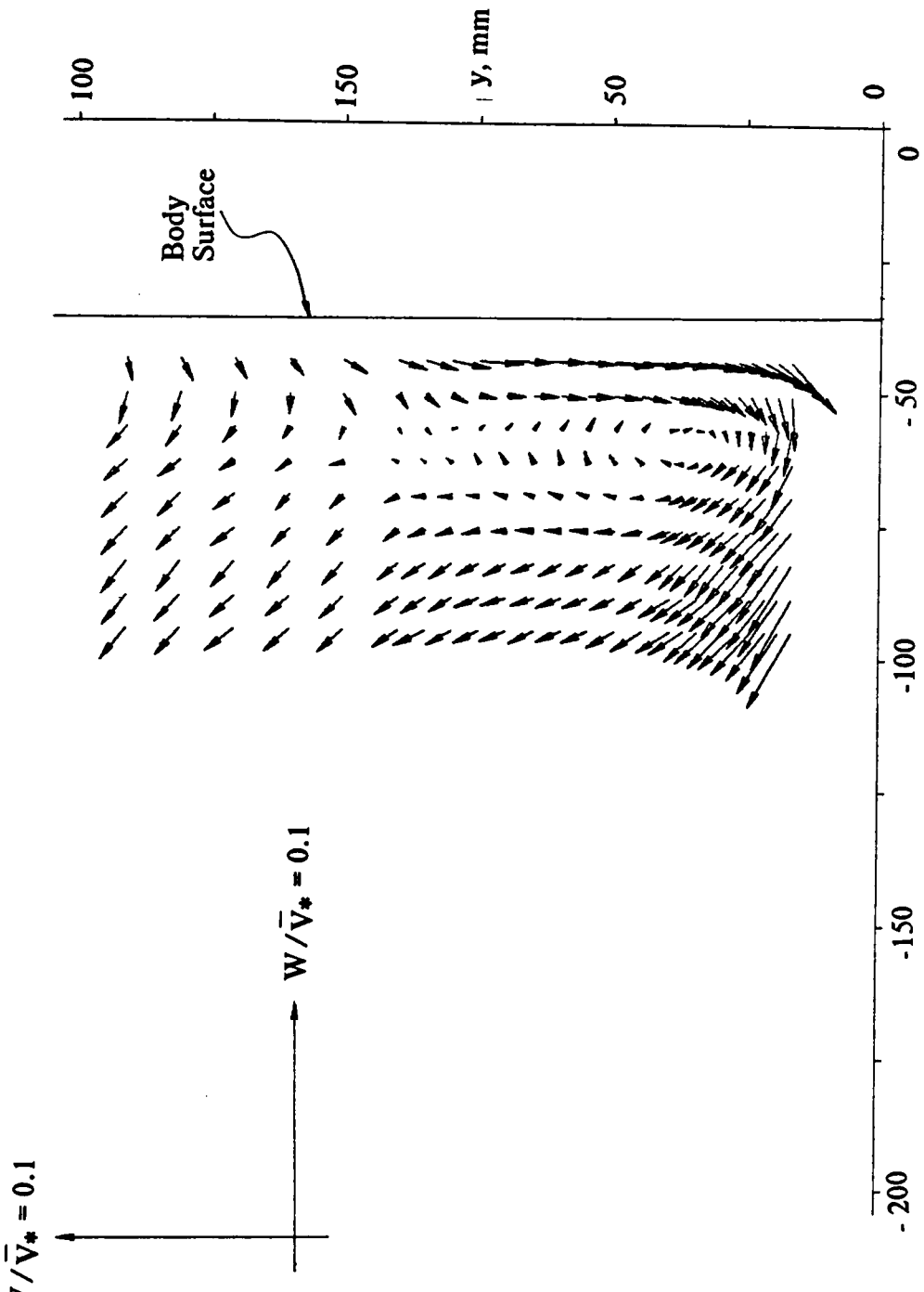


Fig. 4.55 Enlarged View of the Secondary Velocity Distribution at Maximum Thickness Position for the 4:1 Elliptical Nose Body

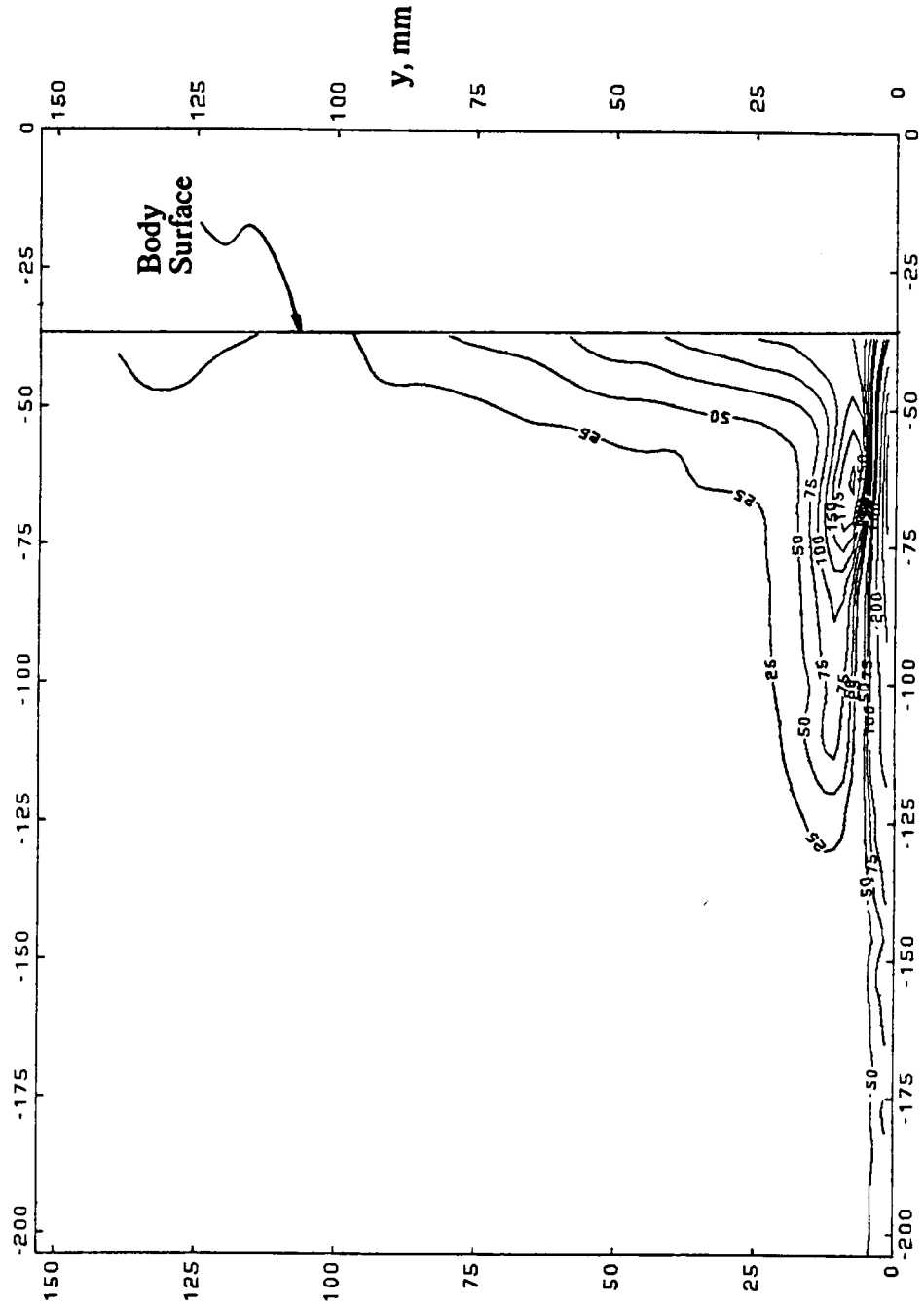


Fig. 4.56 x-Component Vorticity Distribution at Maximum Thickness Position for the 4:1 Elliptical Nose Body

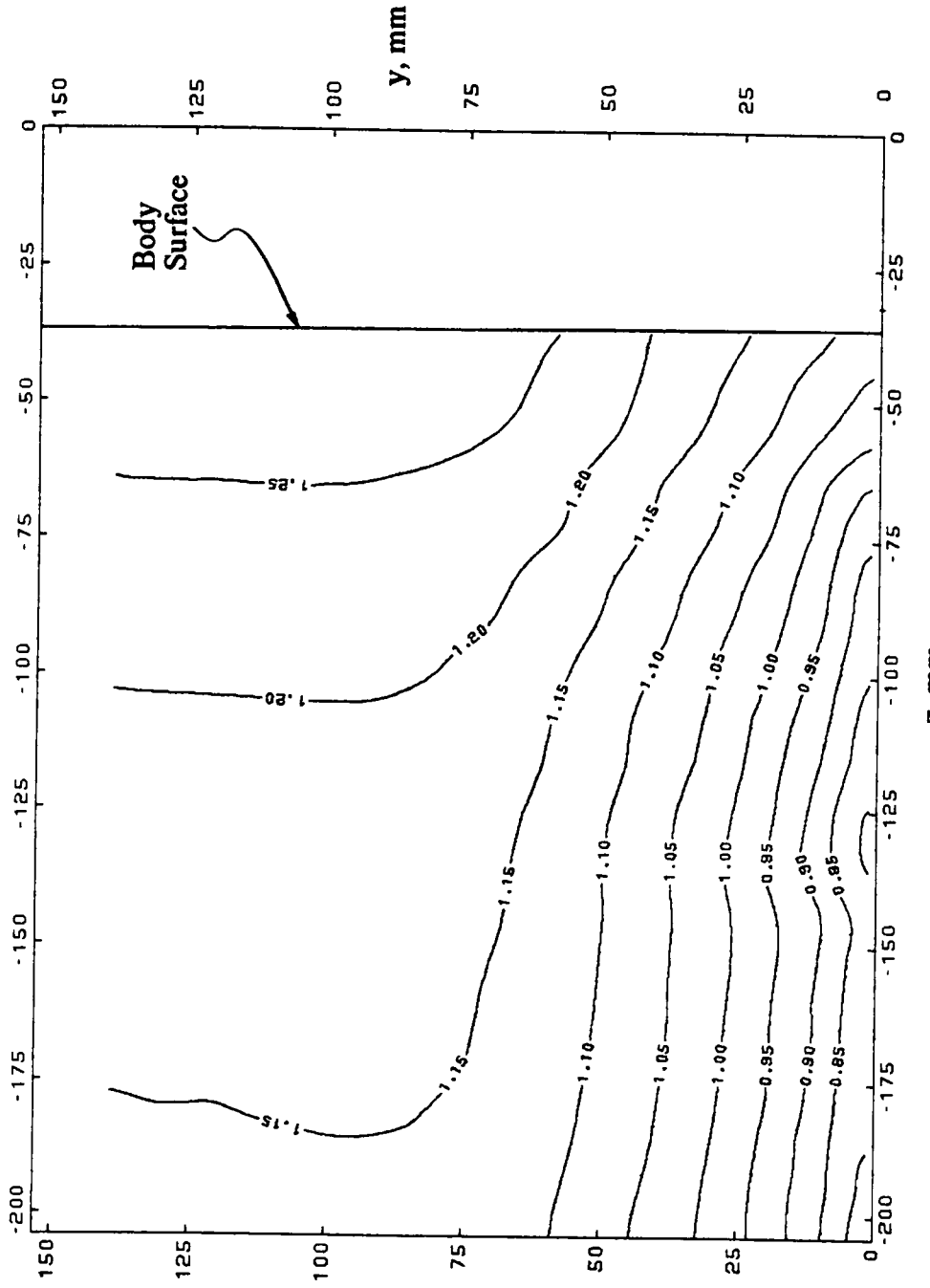


Fig. 4.57 U velocity Distribution at Maximum Thickness Position for the 4:1 Elliptical Nose Body

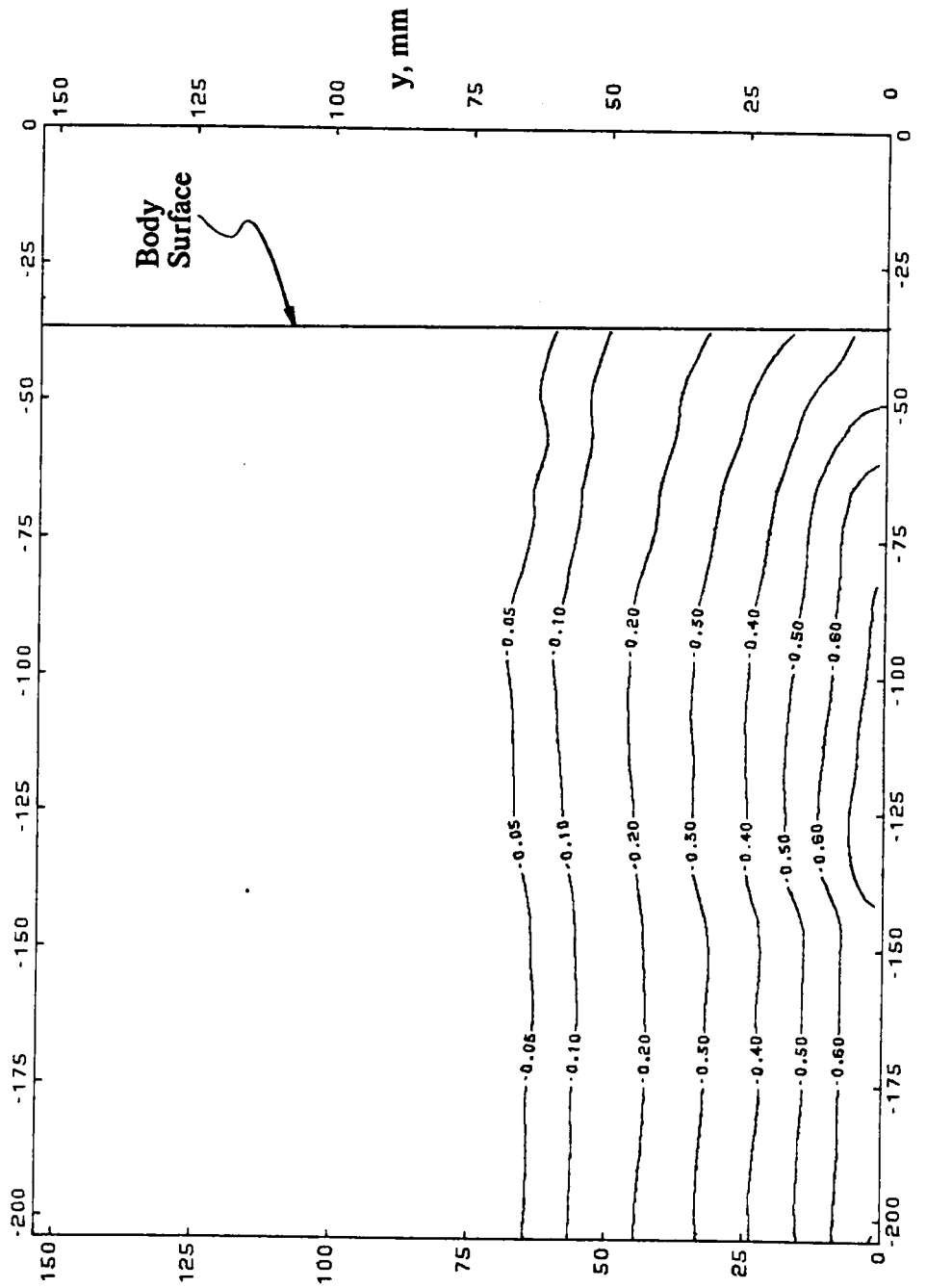


Fig. 4.58 Total Pressure Coefficient Distribution at Maximum Thickness Position for the 4:1 Elliptical Nose Body

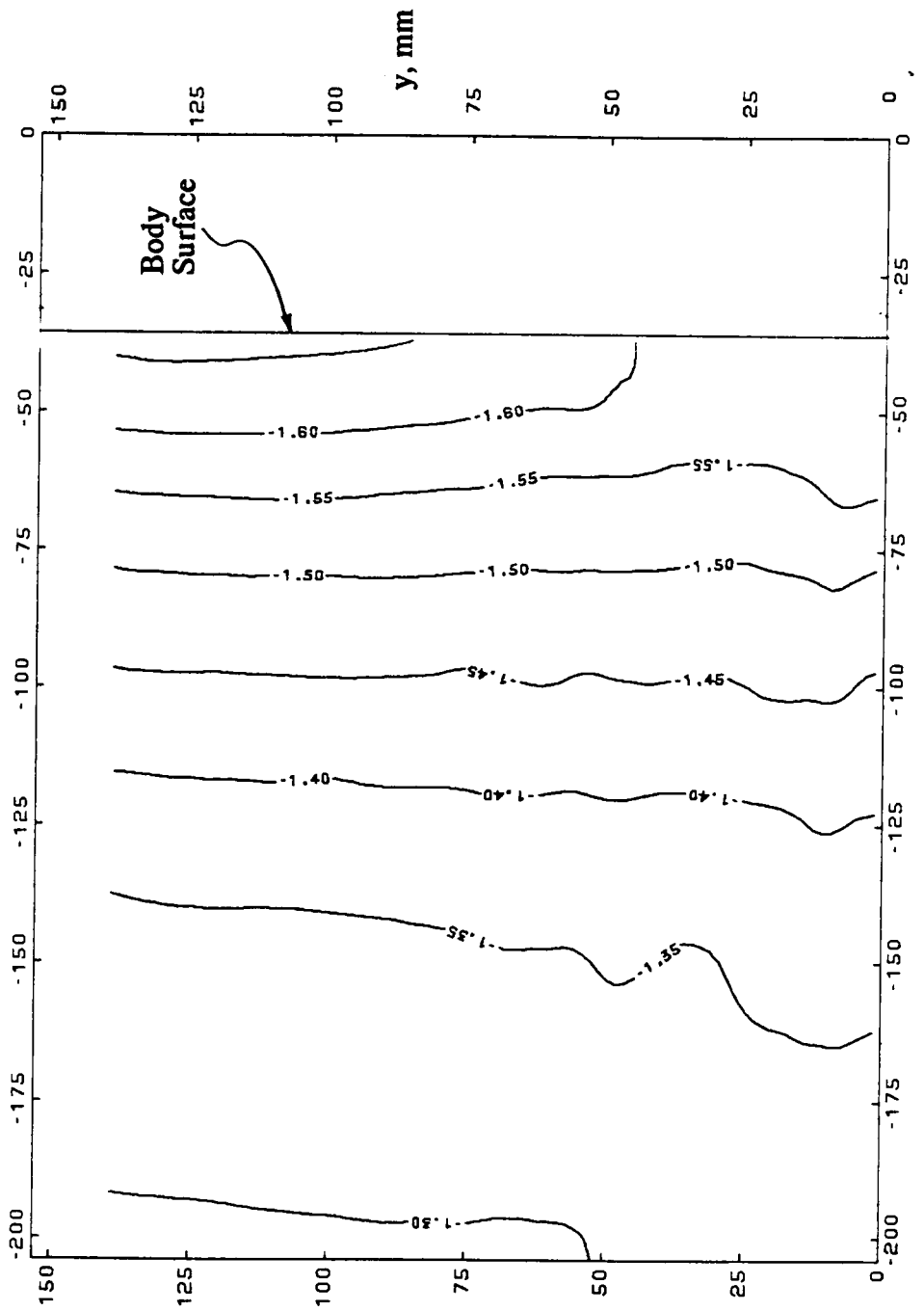


Fig. 4.59 Static Pressure Coefficient Distribution at Maximum Thickness Position for the 4:1 Elliptical Nose Body

4.4.1.2 100 Percent Chord Plane

The secondary velocity vector distribution is shown in Fig. 4.60. The primary horseshoe vortex is not seen. The secondary velocity distribution is very similar to that of the 1.5:1 elliptical nose body except in the region close to the floor and at the junction.

The x-component vorticity distribution is shown in Fig. 4.61. A strong corner vorticity region is seen in the corner of the junction. The primary positive vorticity identified with the primary horseshoe vortex is not seen, unlike the 1.5:1 elliptical nose body (see Fig. 4.40). It appears that the smaller primary horseshoe vortex has dissipated alongside the body, and only the corner separation vortex can be seen in the vorticity field at this plane. The peak value of the corner vorticity is something of the order of 320/sec. For the 1.5:1 elliptical nose body, the peak value of the primary vorticity was 190/sec and the peak value of the corner vorticity was 400/sec. This comparison of peak vorticity values also suggests that the vorticity seen at this plane is identified with the corner separation vortex. A positive vorticity region near the floor and extending to z = -200 mm is caused by velocity gradients (mainly W velocity gradients) between the first row of velocity vectors and the zero velocity at the floor. The sign is consistent with the outflow along the floor as seen in the secondary velocity distribution of Fig. 4.60.

The U velocity distribution is shown in Fig. 4.62. The raised regions of the contours seen in the U velocity distribution for the 1.5:1 elliptical nose body have leveled noticeably, indicating a lesser effect of the vortex structure.

The total pressure distribution is shown in Fig. 4.63. The distribution shows no large effect of the vorticity. The small dip of the -0.40 level line near z = -20 mm is consistent with the U velocity distribution. The static pressure distribution in Fig. 4.64

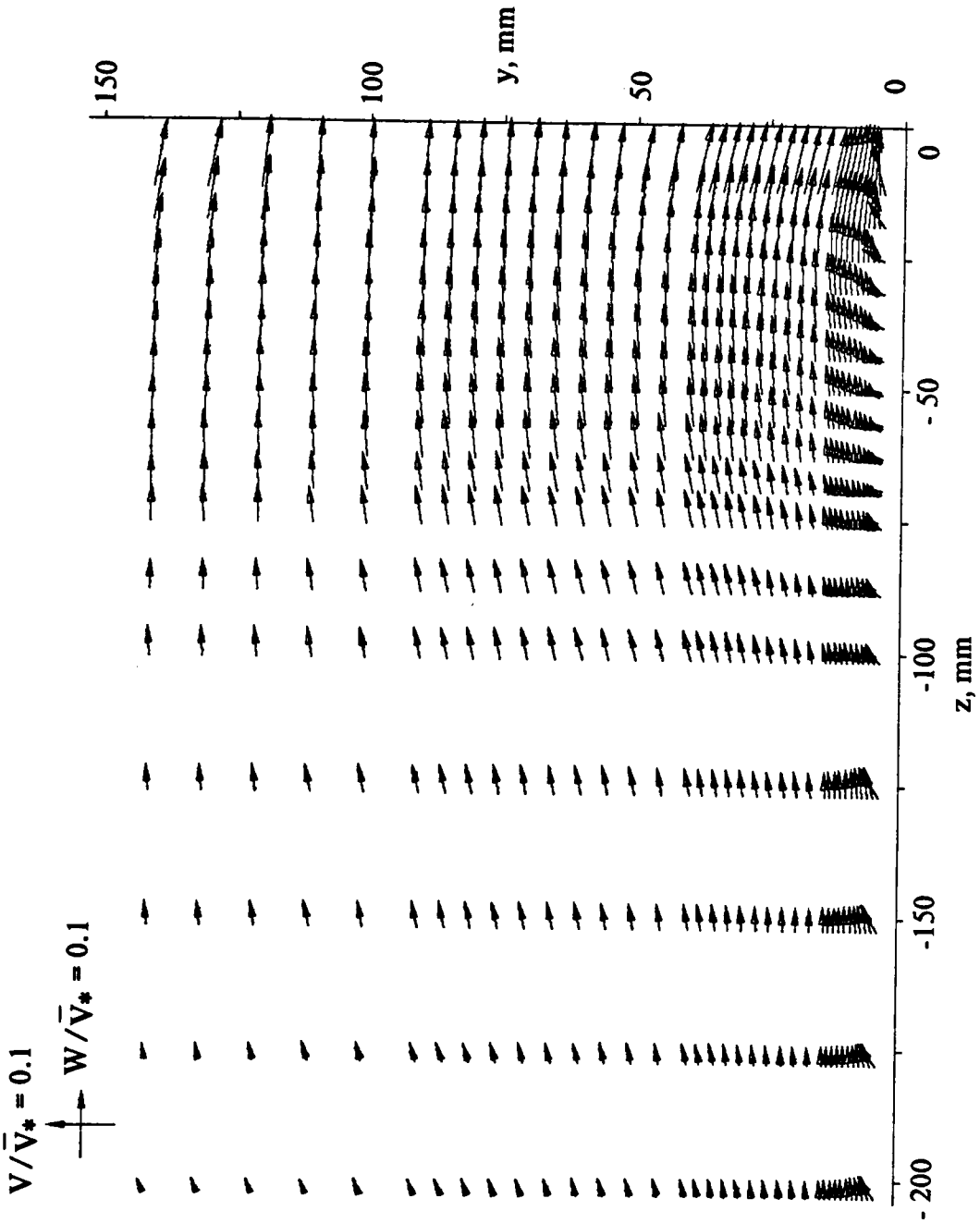


Fig. 4.60 Secondary Velocity Distribution at 100 Percent Chord for the 4:1 Elliptical Nose Body

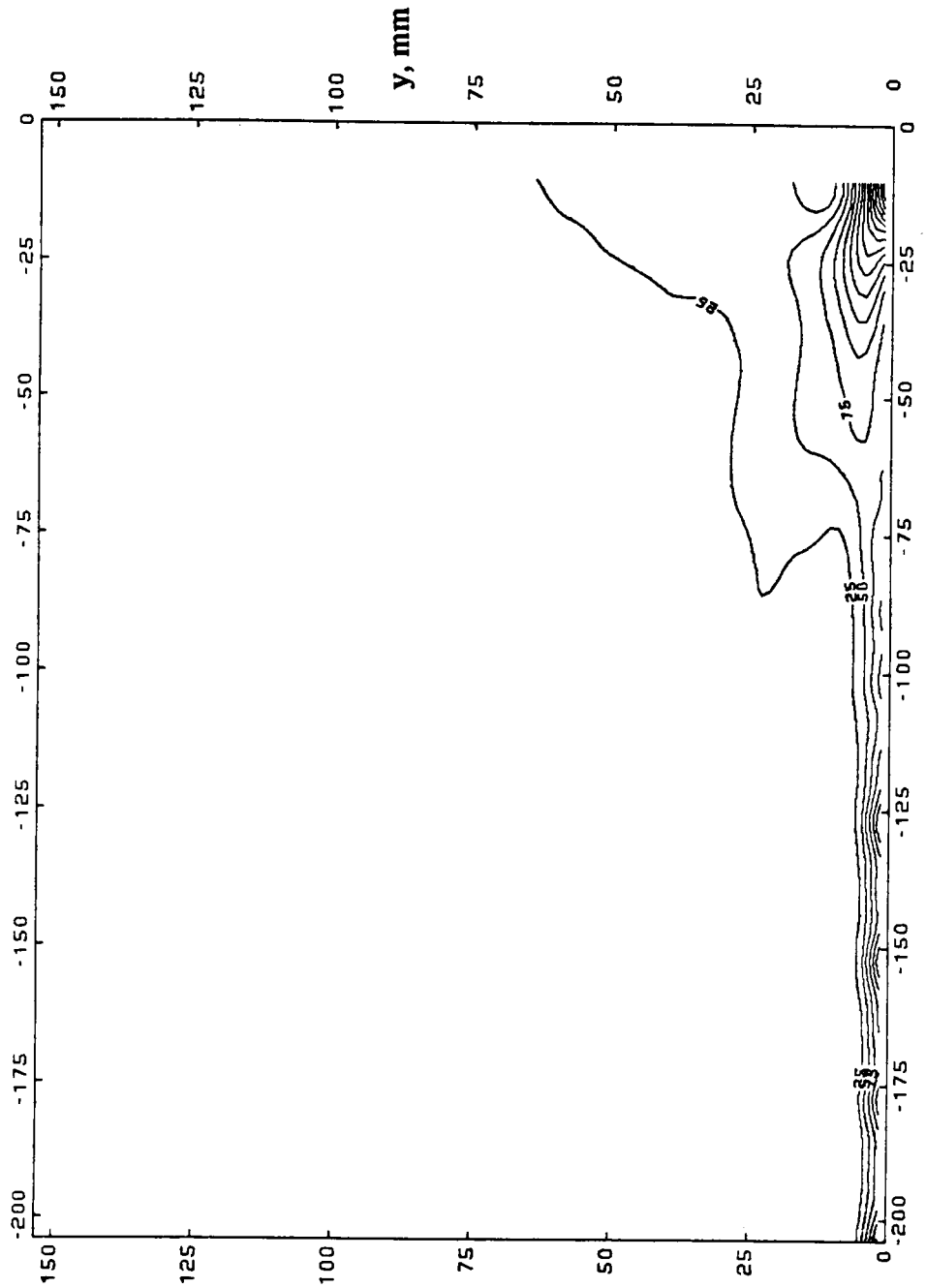


Fig. 4.61 x-Component Vorticity Distribution at 100 Percent Chord for the 4:1 Elliptical Nose Body

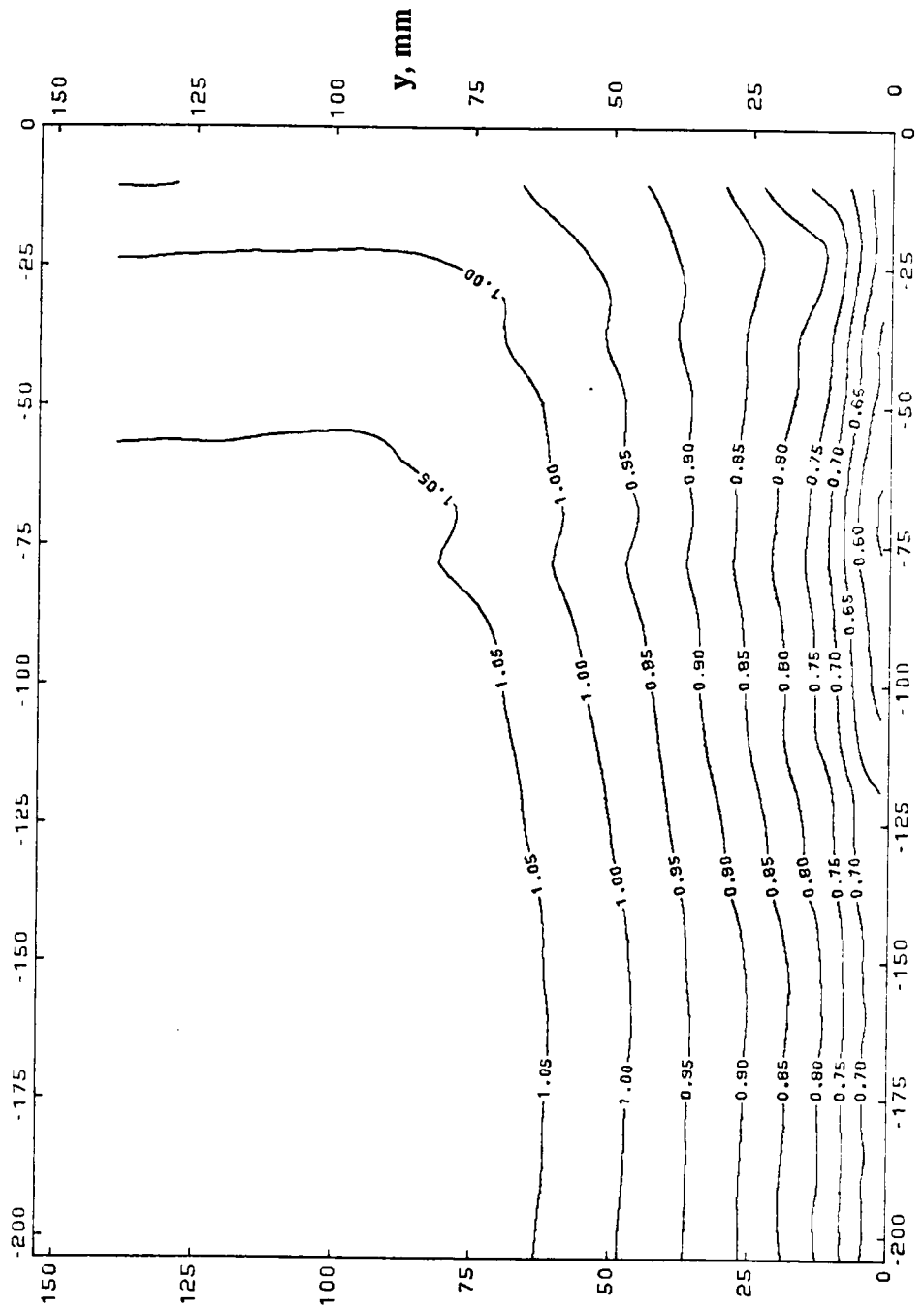


Fig. 4.62 U velocity Distribution at 100 Percent Chord for the 4:1 Elliptical Nose Body

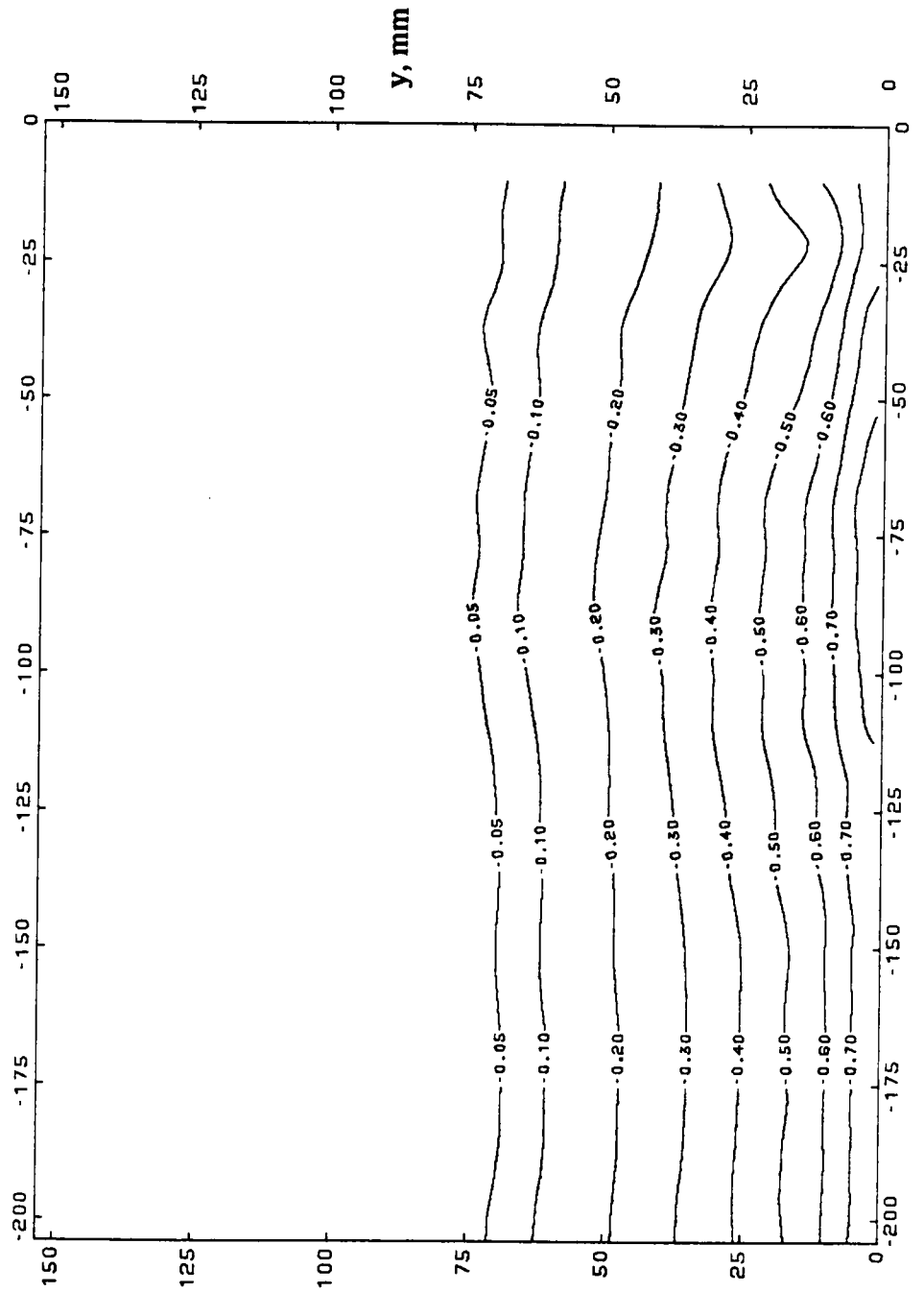


Fig. 4.63 Total Pressure Coefficient Distribution at 100 Percent Chord for the 4:1 Elliptical Nose Body

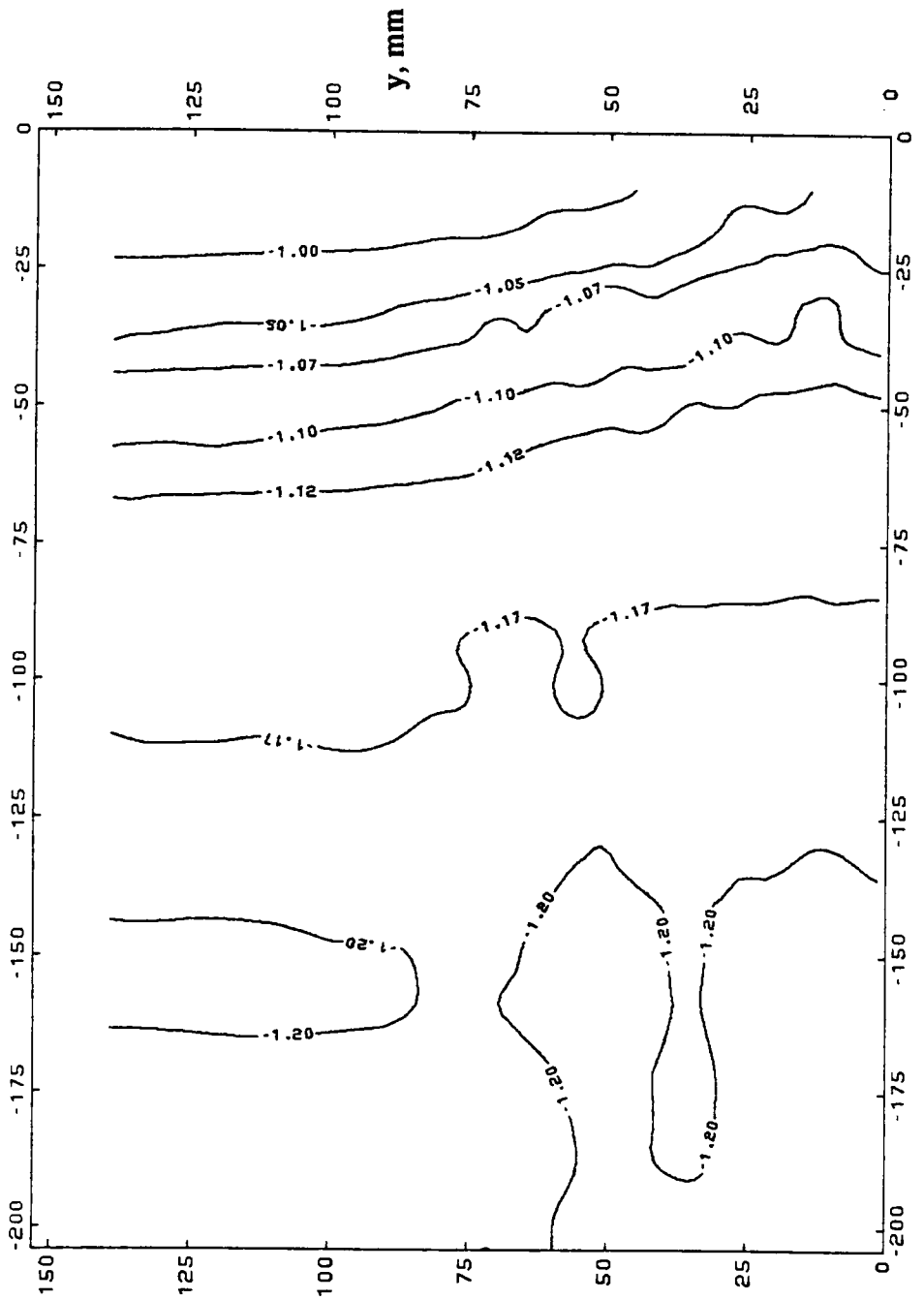


Fig. 4.64 Static Pressure Coefficient Distribution at 100 Percent Chord for the 4:1 Elliptical Nose Body

shows a nearly constant static pressure along the y direction near the body, and almost constant static pressure across the region away from the body.

4.4.1.3 150 Percent Chord Plane

The secondary velocity vector distribution is shown in Fig. 4.65. One large vortex structure is seen centered around z = -57 mm and y = 20 mm. The secondary velocity vector distribution at this corresponding plane for the 1.5:1 elliptical nose body (see Fig. 4.44) also showed a single large vortex structure centered around z = -65 mm and y = 23 mm. The vortex centers for two bodies almost coincide, despite of the nose shape difference between two bodies. A very large difference in the magnitudes of the secondary velocity vectors above and below the vortex center is also noted, as for the 1.5:1 elliptical nose body. A modest downflow is seen along the tunnel centerline, which was also seen in Fig. 4.44. The distribution is very similar to that for the 1.5:1 elliptical nose body at this corresponding plane.

Figure 4.66 shows the x-component vorticity distribution. Only one positive vorticity region is shown. It was observed that two positive vorticity regions from the primary horseshoe vortex and the corner separation vortex merged at this plane for the 1.5:1 elliptical nose body. The facts that there is one positive vorticity region seen here and that the primary positive vorticity region is absent at the 100 percent chord plane (see Fig. 4.61) suggest that this positive vorticity is identified with the corner separation vortex seen at the 100 percent chord position. It appears that the corner vorticity region has moved away from the body. It was observed that the "V" shaped line sprang from near the trailing edge on the floor surface flow visualization. The z location of this vortex corresponds well to the "V" shaped line, which suggests that the "V" shaped line is the

projection of the center of the corner separation vortex onto the floor. It was observed that the z location of the corner separation vortex at the 150 percent chord position for the 1.5:1 elliptical nose body was at about -20 mm, which corresponded well to the "V" shaped line on the floor surface flow visualization. Since the 4:1 elliptical nose body has a longer chord length, the 150 percent chord position corresponds to an x location further downstream, compared to the 1.5:1 elliptical nose body. Hence, the "V" shaped line diverges more, with the z location of the corner separation vortex center for the 4:1 elliptical nose body about -35 mm further away from the tunnel centerline. The peak vorticity has the same value (200/sec) as the peak value for the corner vorticity for the 1.5:1 elliptical nose body. A negative vorticity region seen below the primary positive vorticity region is caused by velocity gradients (mainly W velocity gradients) between the first row of velocity vectors and the zero velocity at the floor. The sign is consistent with the inflow along the floor as seen in the secondary velocity distribution of Fig. 4.65.

The U velocity distribution is shown in Fig. 4.67. The raised regions of the contours seen for the 1.5:1 elliptical nose body are significantly leveled, consistent with the weaker secondary flow. Contours of the total pressure distribution in Fig. 4.68 are consistent with a weak secondary flow field. There is a total pressure defect typical of two-dimensional boundary layer like flow near the floor, and a total pressure defect typical of a streamline body wake along the y axis and physically due to the body boundary layers. The static pressure distribution in Figure 4.69 shows a nearly constant static pressure across the region.

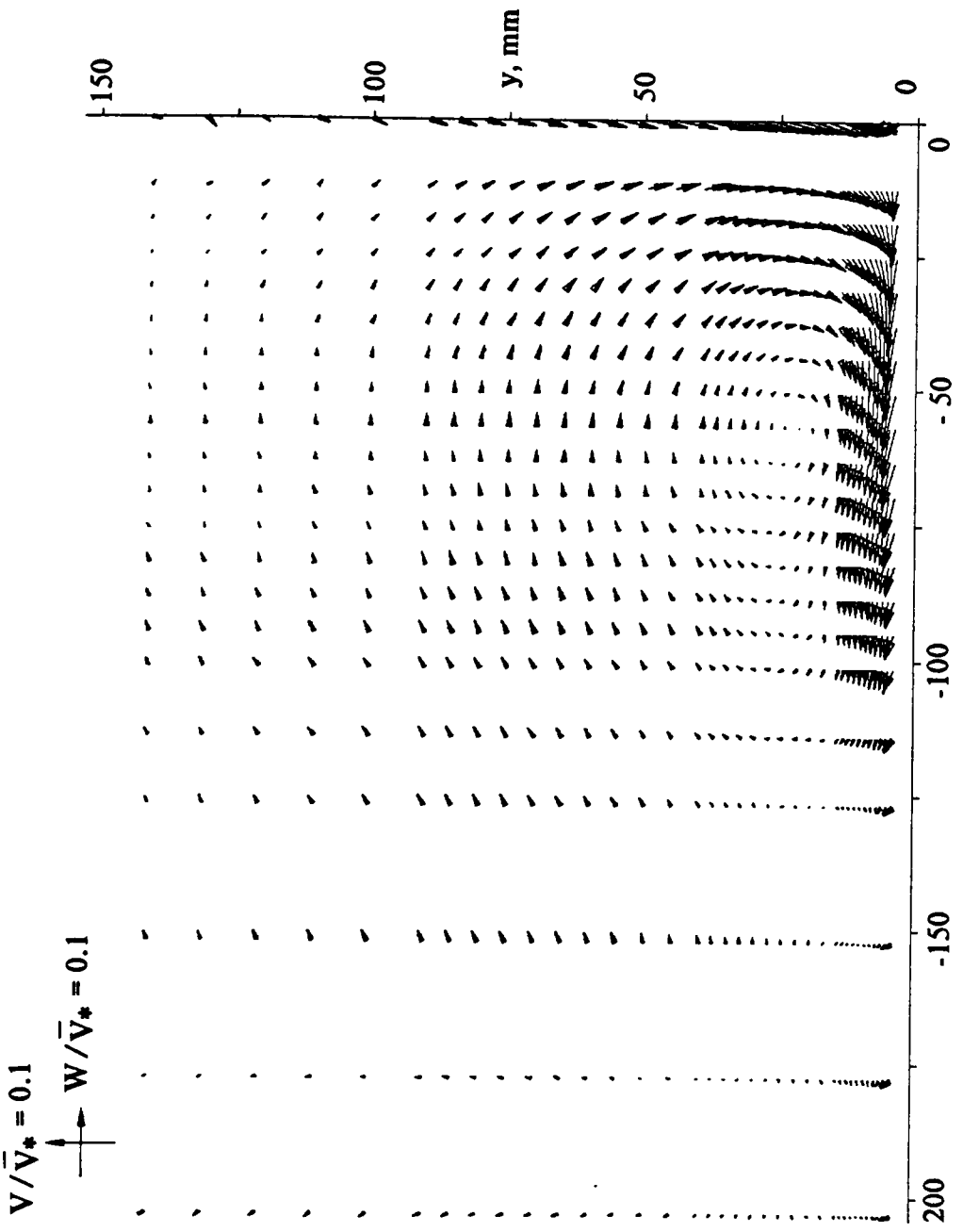


Fig. 4.65 Secondary Velocity Distribution at 150 Percent Chord for the 4:1 Elliptical Nose Body

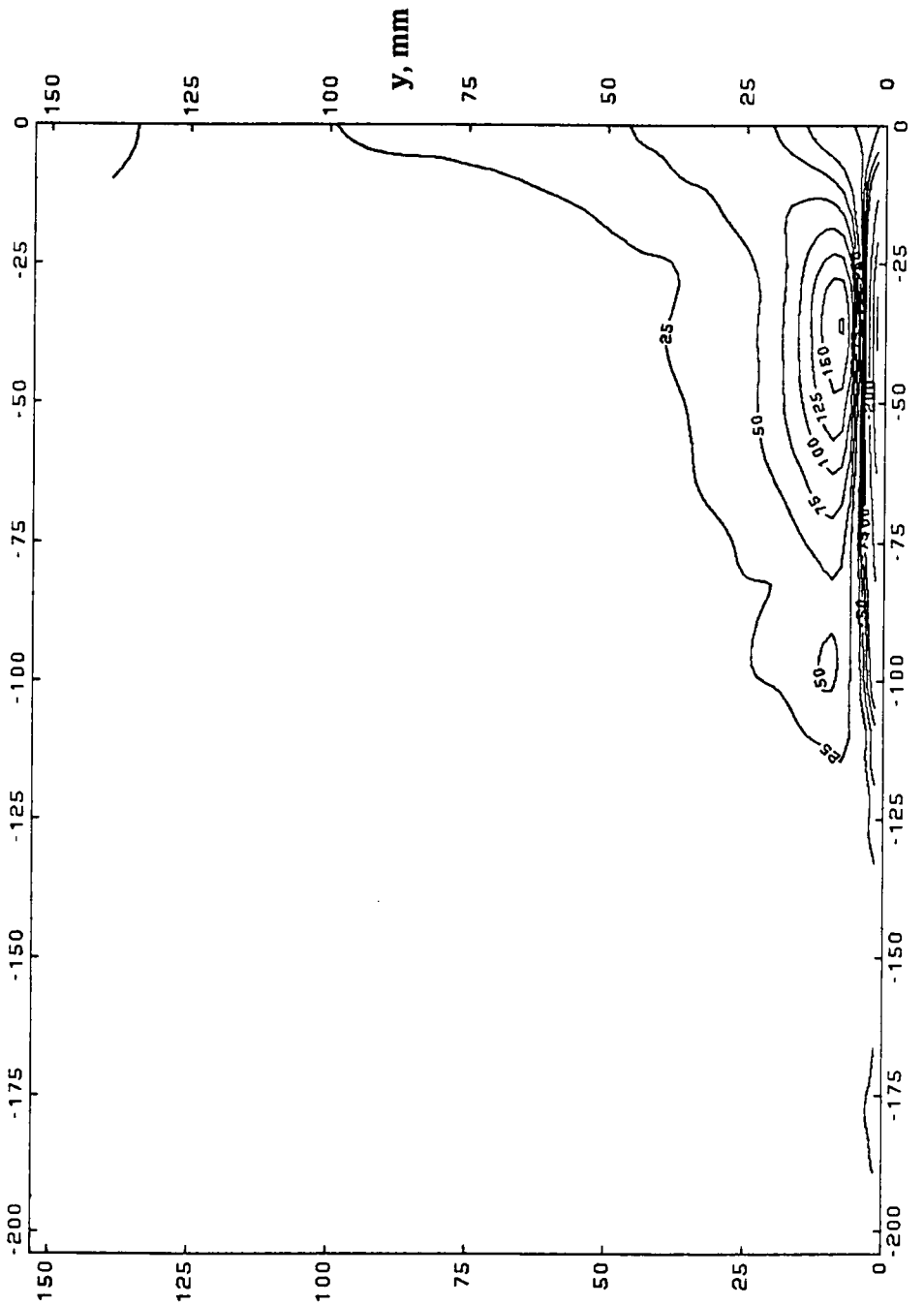


Fig. 4.66 x-Component Vorticity Distribution at 150 Percent Chord for the 4:1 Elliptical Nose Body

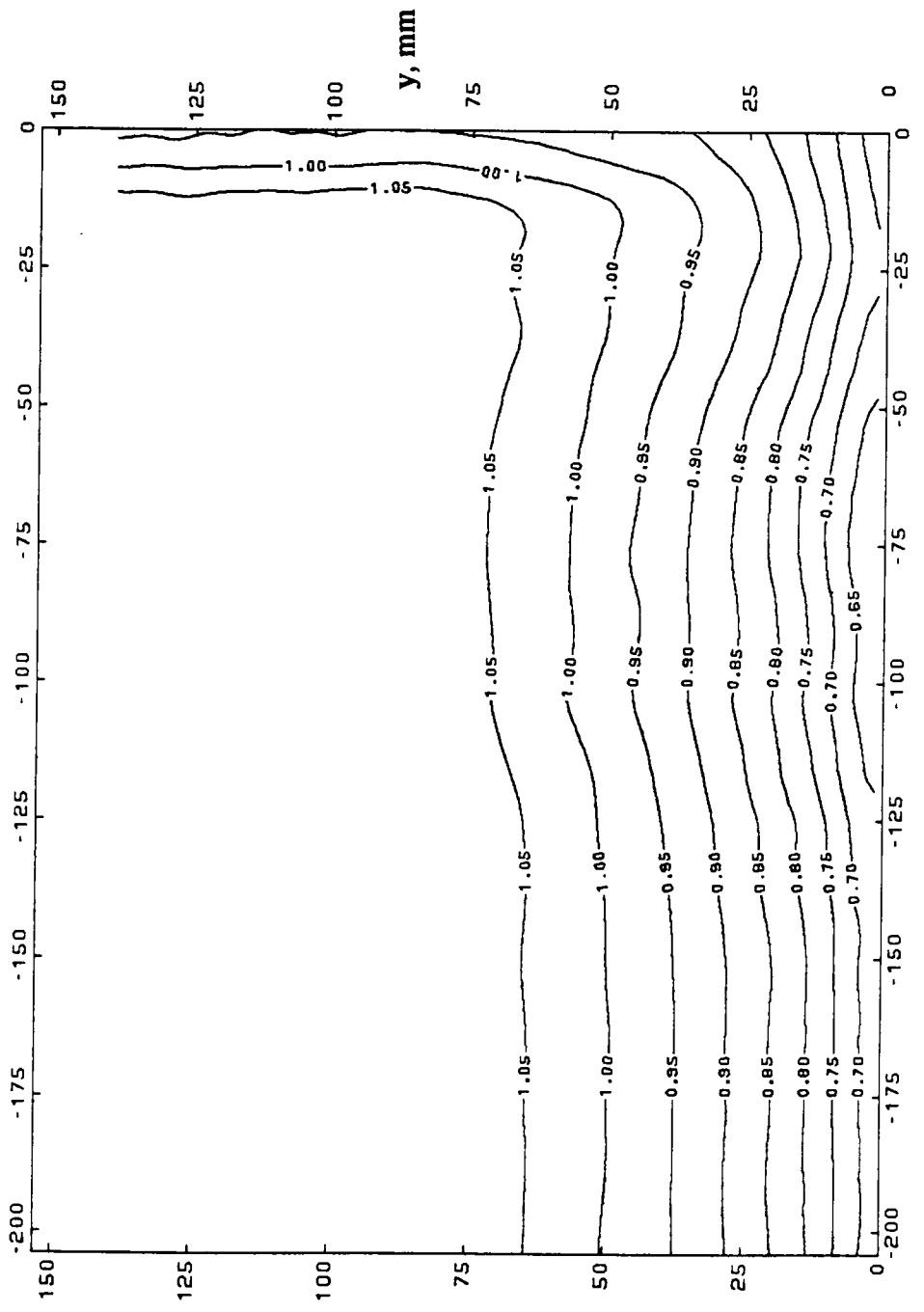


Fig. 4.67 U velocity Distribution at 150 Percent Chord for the 4:1 Elliptical Nose Body

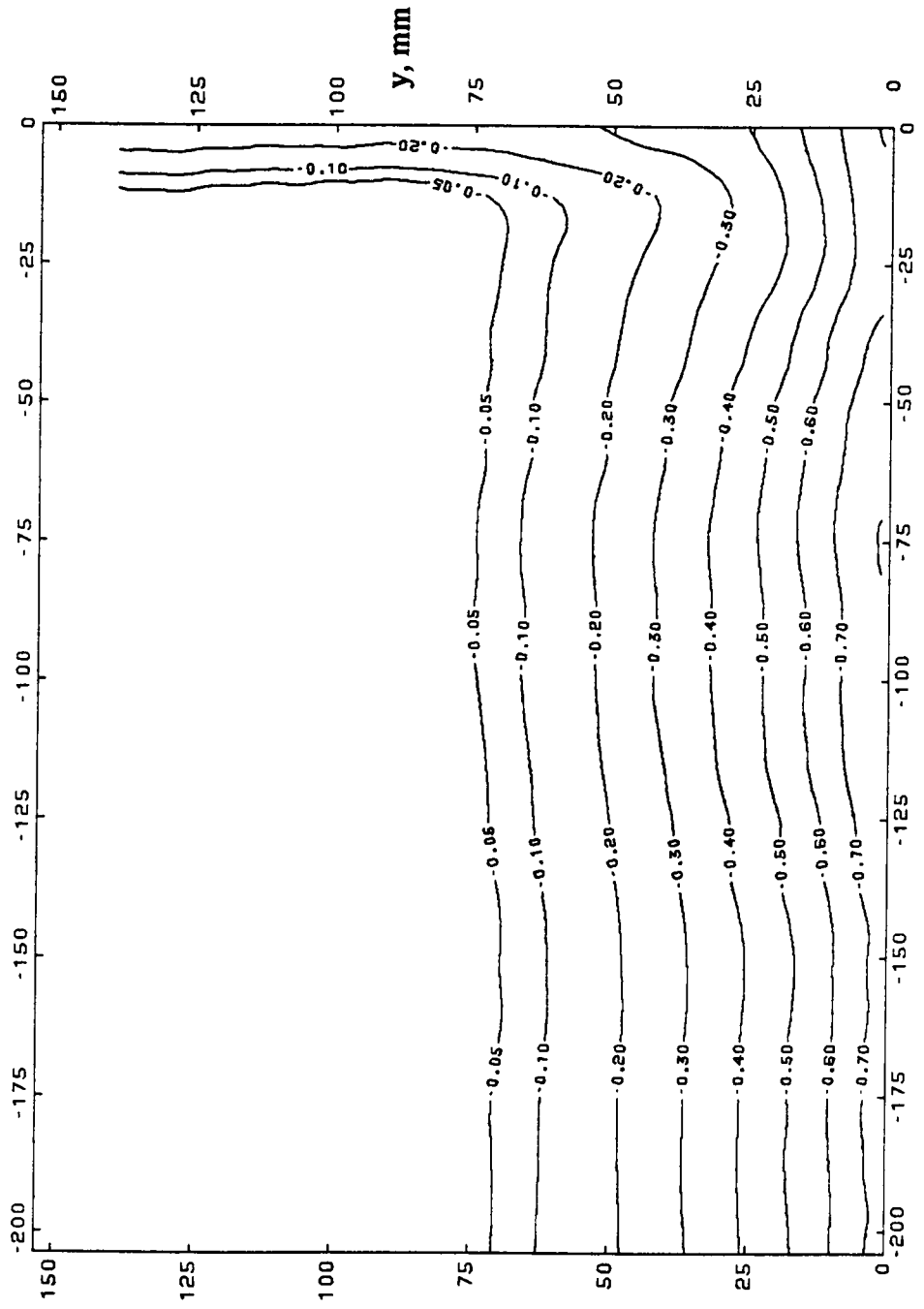


Fig. 4.68 Total Pressure Coefficient Distribution at 150 Percent Chord for the 4:1 Elliptical Nose Body

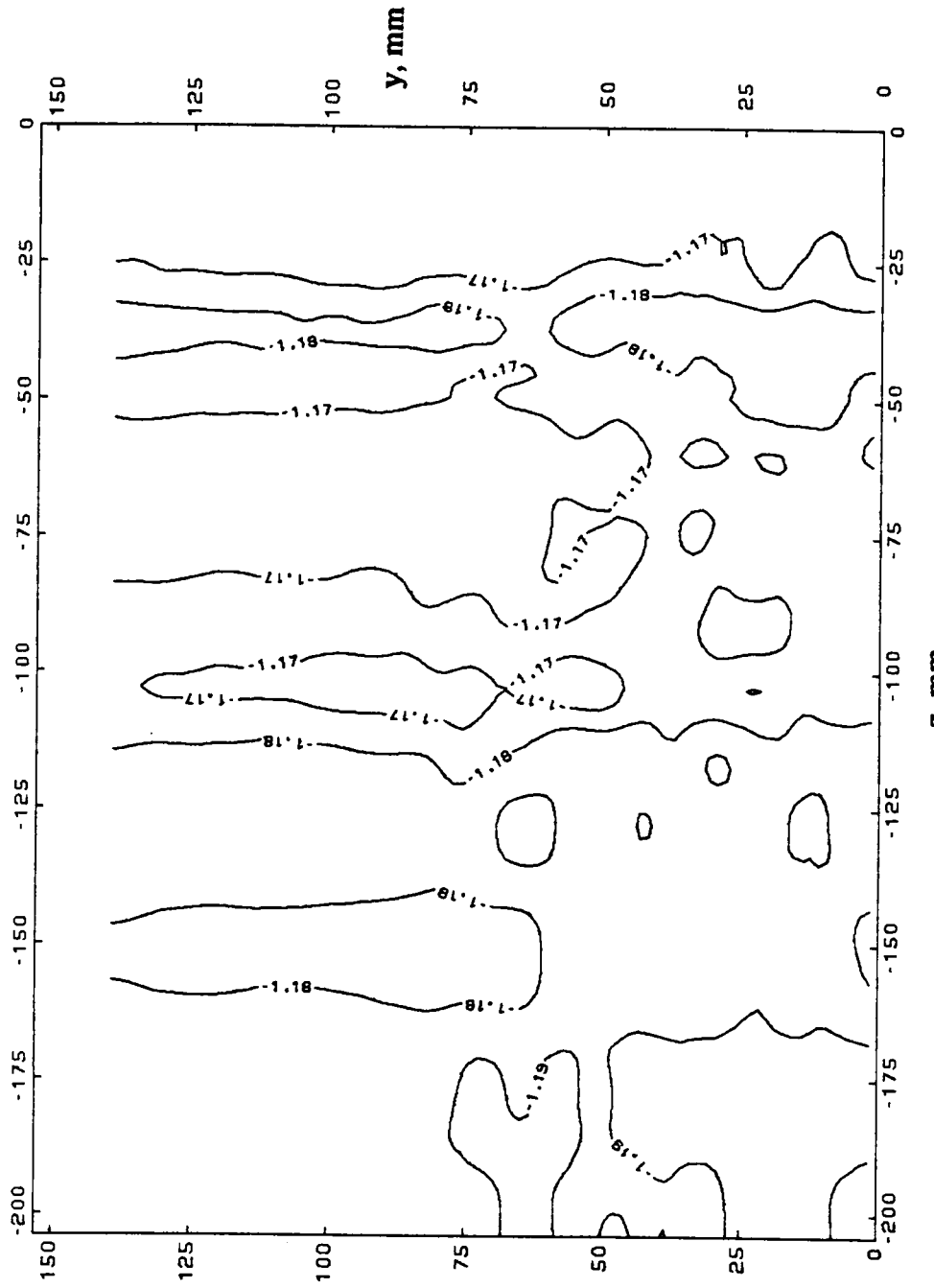


Fig. 4.69 Static Pressure Coefficient Distribution at 150 Percent Chord for the 4:1 Elliptical Nose Body

4.4.1.4 Comparison with the 1.5:1 Elliptical Nose Body

At the maximum thickness location, the x-component vorticity distribution for the 4:1 elliptical nose body showed a primary positive vorticity region indicating the presence of the primary horseshoe vortex, but the peak value of the vorticity was about one third of that for the 1.5:1 elliptical nose body. This indicates that the strength of the horseshoe vortex was much weaker than that for the 1.5:1 elliptical nose body at this maximum thickness location. The results are consistent with the floor surface flow visualizations. It was observed that the high shear stress line, which is believed to be the projection of the primary horseshoe vortex center onto the floor, was not clearly seen at the maximum thickness location. No conclusion on the presence of a weaker horseshoe vortex generated at the leading edge by the 4:1 elliptical nose body can be made, since measurements were not made at the plane of symmetry for either body. However, it is very unlikely to expect a stronger horseshoe vortex to be generated at the leading edge by the 4:1 elliptical nose body and dissipated so quickly that the peak vorticity value decreases to one third of that for the 1.5:1 elliptical nose body at the maximum thickness location. It appears that a weaker vortex is generated at the leading edge by the more slender nose of the 4:1 elliptical nose body. It was also observed in the floor surface flow visualization that the separation point is much closer to the body leading edge for the 4:1 elliptical nose. Since the vortex is formed between the separation point and the body leading edge, the scale of the vortex must be smaller. This is supported by the smaller vorticity region seen in the x-component vorticity distribution at the maximum thickness plane in Fig. 4.56.

The most noticeable difference in the results between the 4:1 elliptical nose body and the 1.5:1 elliptical nose body is that the primary horseshoe vortex was not seen at the 100 and 150 percent chord planes for the more slender body. The absence of the

horseshoe vortex at these two planes is supported by the floor surface flow visualization studies. It was observed that the high shear stress line was not clearly seen around the body and in the wake. It appears that the weak primary horseshoe vortex formed at the leading edge was reduced by dissipation alongside the body, so that evidence of this weaker primary horseshoe vortex was essentially absent by the time the flow reached the 100 percent chord location. The vortex seen at the 100 percent chord in Fig. 4.61 appears to be a corner separation vortex. Thus, the vorticity seen in the 150 percent chord plane is also essentially due to this corner separation vortex. This corner separation vortex leaves the body in a "V" shaped line as seen in the floor surface flow visualization, which is why the center of the vortex is seen away from the body at the 150 percent chord plane in Fig. 4.65.

It is evident that the strength and size of the primary horseshoe vortex has been reduced by the more slender nose of a 4:1 ellipse.

4.4.2 4:1 Wedge Elliptical Nose Body

This body has the same maximum thickness and the same chord length as the 4:1 elliptical nose body. The nose shape was defined by:

$$\left[\frac{x}{5.6}\right]^{1.5} + \left[\frac{z}{1.4}\right]^{1.5} = 1 \ , \tag{4.20}$$

which resulted in a sharper nose as shown in Fig. 2.4. The flow field was documented at the maximum thickness plane and the 100 percent chord plane.

4.4.2.1 Maximum Thickness Plane

The secondary velocity vector distribution is shown in Fig. 4.70. The floor surface flow visualization for the 4:1 wedge elliptical nose body shows that the streamlines at the maximum thickness location follow the body contour very closely, which suggests that this transverse plane is nearly orthogonal to the flow direction, at least near the floor. Thus this transverse measurement plane should give a good representation of secondary velocity distribution to show any vortex structure that might exist. No vortex structure is perceived, whereas a weak vortex structure was seen for the 4:1 elliptical nose body at this measurement position. Most of the secondary velocity vectors are directed away from the floor and the body as for the other bodies at this location. The effect of the secondary flow appears to be very weak except near the floor in the junction region.

Figure 4.71 shows the x-component vorticity distribution. No major changes are seen compared with the 4:1 elliptical nose body. However the peak vorticity value has decreased to something of the order of 240/sec. A negative vorticity region is seen below the the positive vorticity region and across the flow. This negative vorticity appears to be induced from large velocity gradients between the first row of vectors and the zero velocity at the floor. The sign is consistent with the inflow along the floor as seen in the secondary velocity distribution of Fig. 4.70.

The U velocity distribution is shown in Fig. 4.72. Contours between z = -50 mm and z = -75 mm near the floor are curved toward the floor in less steeper fashion compared to the corresponding distribution for the 4:1 elliptical nose body (see Fig. 4.57) suggesting a weaker secondary flow field.

The total pressure distribution in Fig. 4.73 shows a typical boundary layer like distribution, which is consistent with a weak secondary flow field. The static pressure

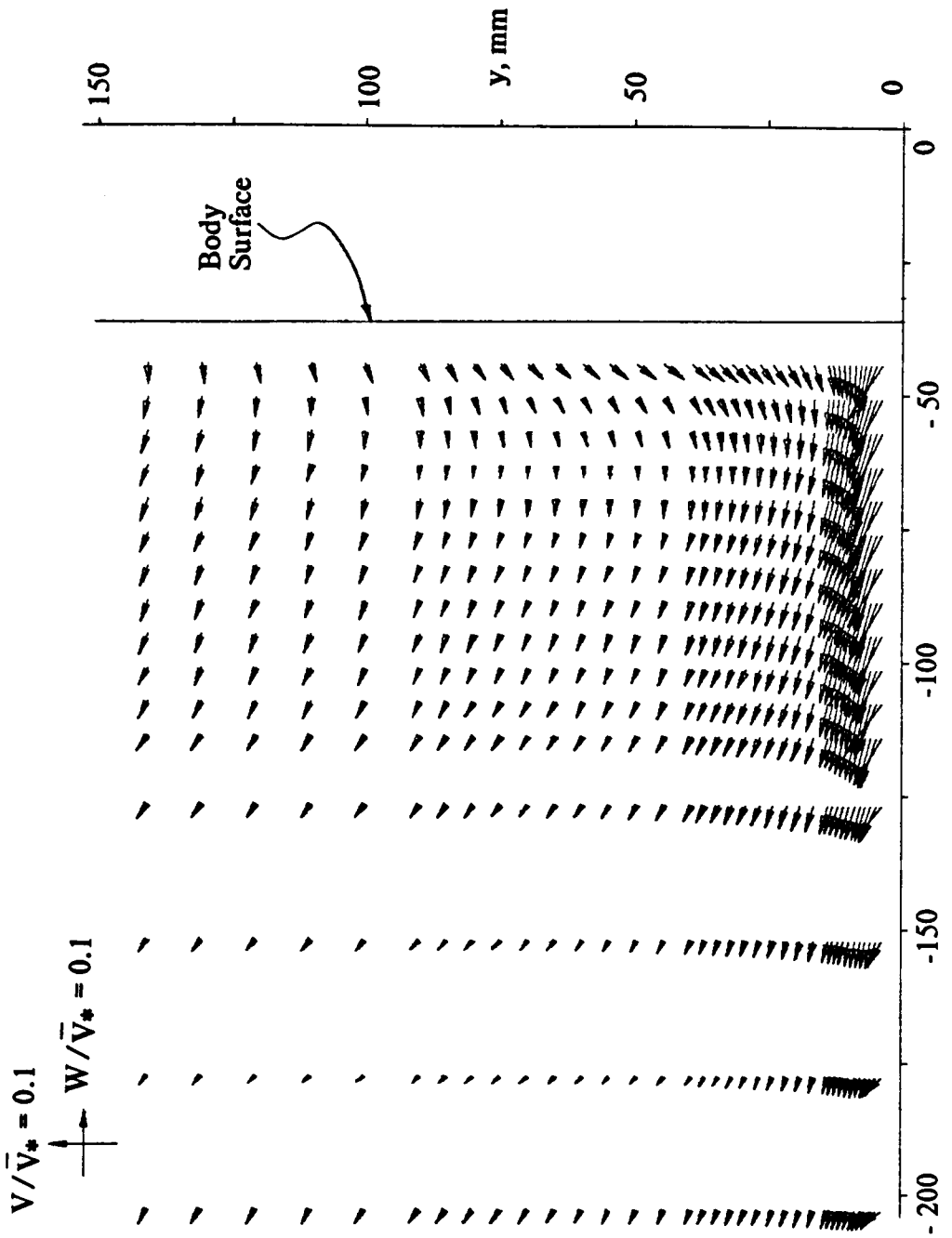


Fig. 4.70 Secondary Velocity Distribution at Maximum Thickness Position for the 4:1 Wedge Elliptical Nose Body

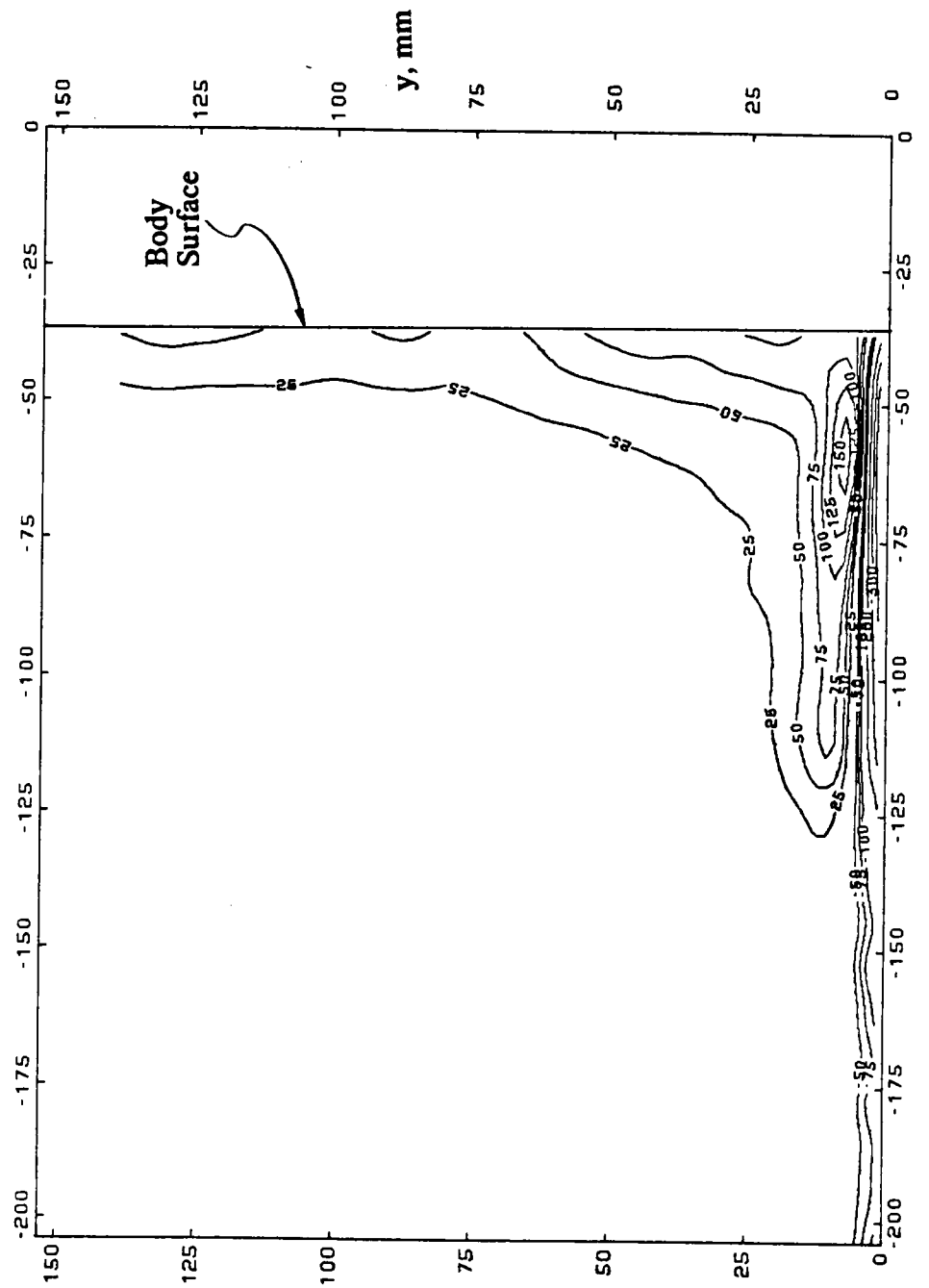


Fig. 4.71 x-Component Vorticity Distribution at Maximum Thickness Position for the 4:1 Wedge Elliptical Nose Body

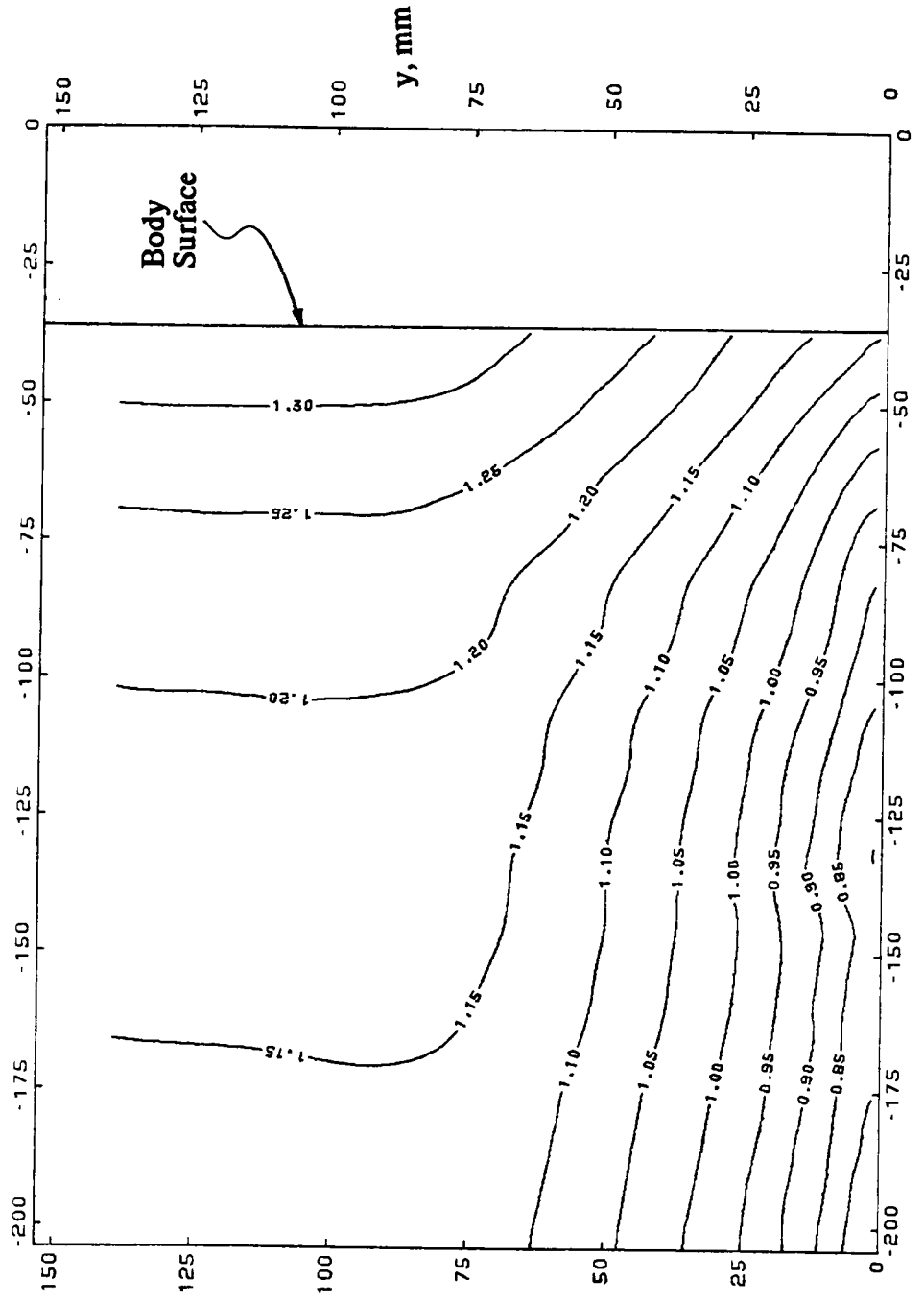


Fig. 4.72 U velocity Distribution at Maximum Thickness Position for the 4:1 Wedge Elliptical Nose Body

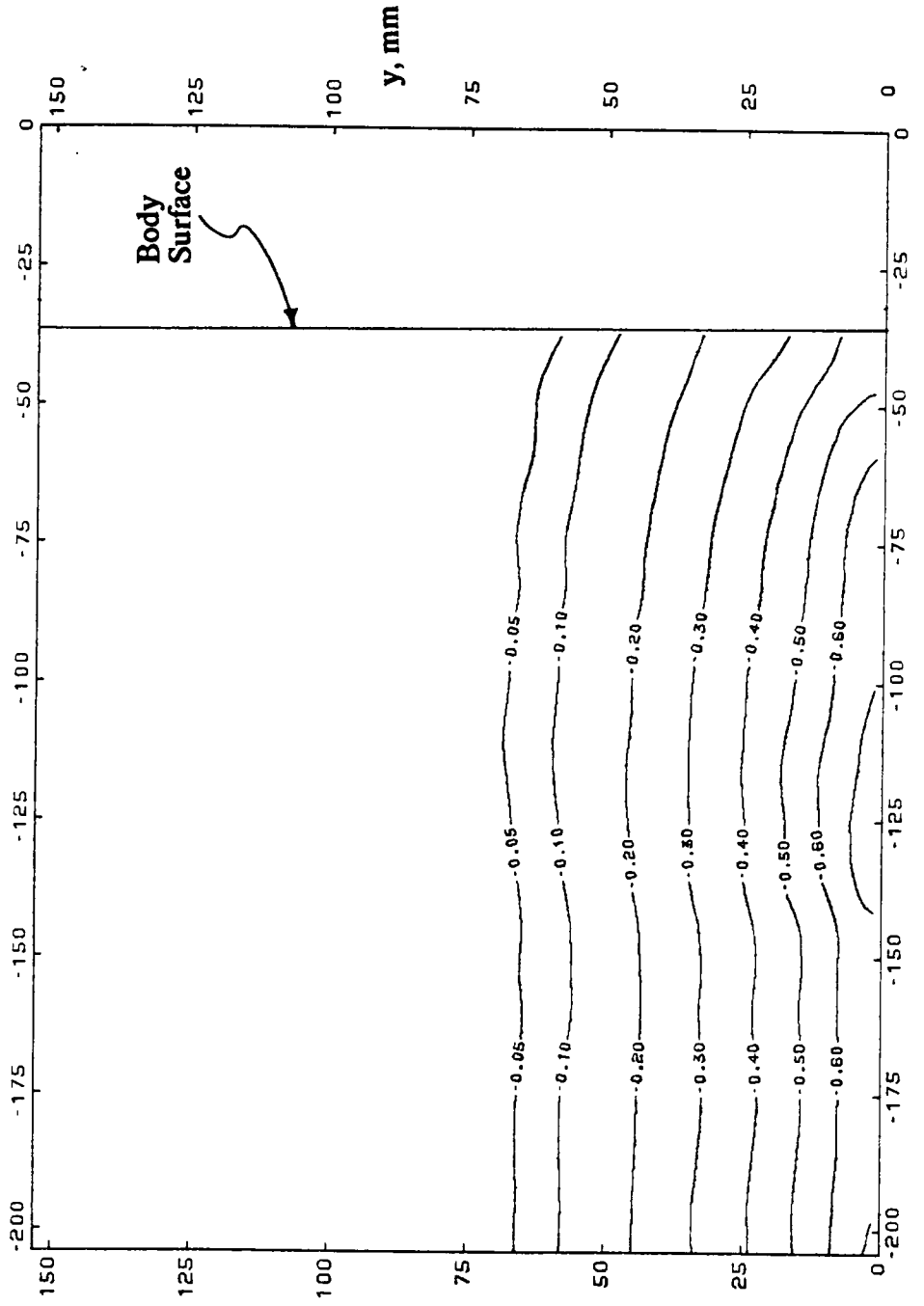


Fig. 4.73 Total Pressure Coefficient Distribution at Maximum Thickness Position for the 4:1 Wedge Elliptical Nose Body

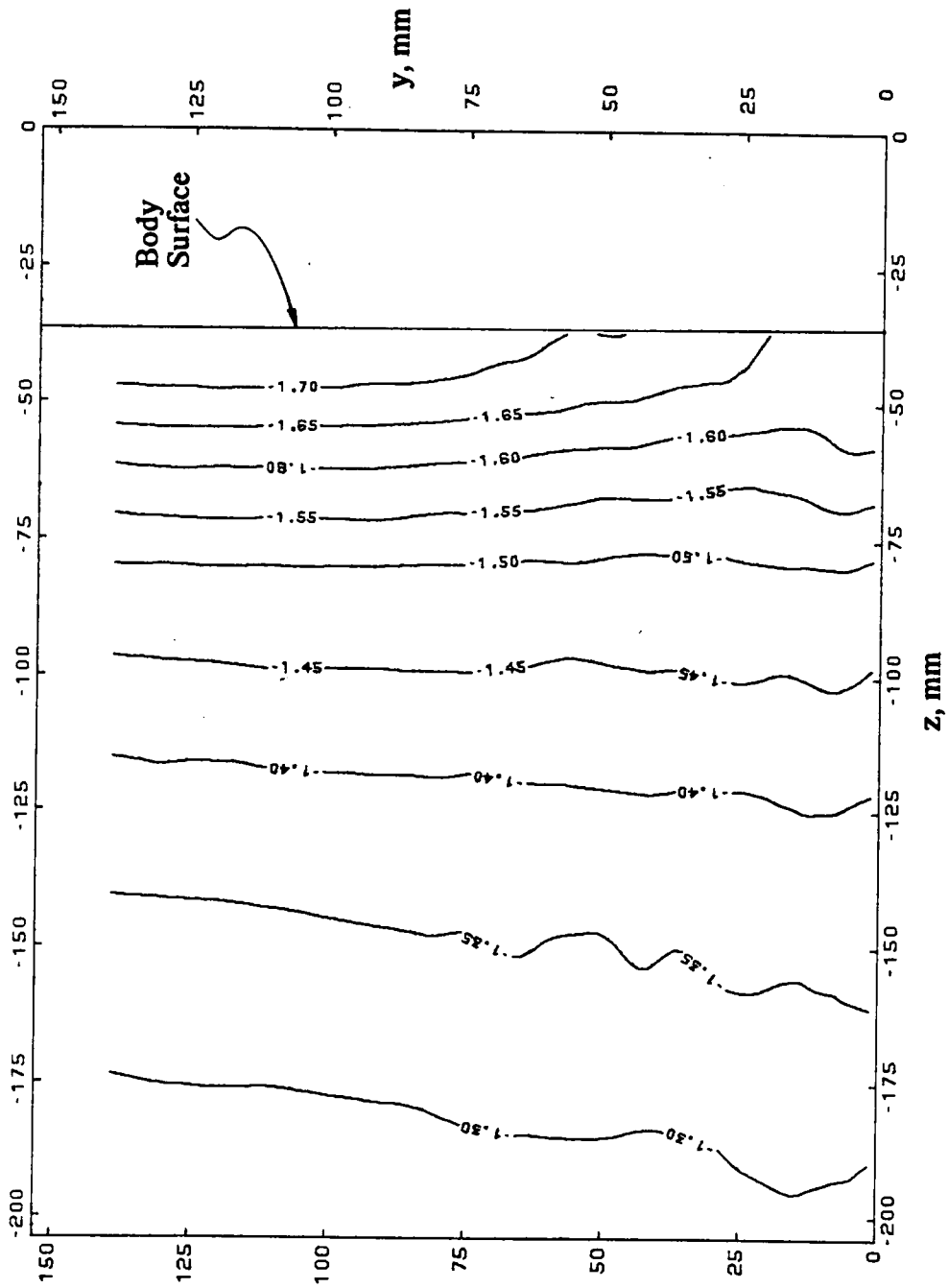


Fig. 4.74 Static Pressure Coefficient Distribution at Maximum Thickness Position for the 4:1 WedgeElliptical Nose Body

distribution is shown in Fig. 4.74. Static pressure is nearly constant along the y direction. The essential features of these two distributions are similar to those for the 4:1 elliptical nose body.

4.4.2.2 100 Percent Chord Plane

The graphical results at this location are shown in Figs. 4.75 through 4.79. The secondary velocity vector distribution is very similar to that for the 4:1 elliptical nose body. No apparent vortex structure is seen. The x-component vorticity distribution in Fig. 4.76 is also very similar to the corresponding distribution for the 4:1 elliptical nose body. The primary positive vorticity region is not seen and the peak value of the corner vorticity (320/sec) is the same as that of the 4:1 elliptical nose body. The U velocity distribution is shown in Fig. 4.77, which shows essentially same distribution as the U distribution for the 4:1 elliptical nose body. The total pressure and the static pressure distributions show no major differences compared to those for the 4:1 elliptical nose body.

4.4.2.3 Comparisons with the 4:1 Elliptical Nose Body

The peak vorticity value for the 4:1 wedge elliptical nose at the maximum thickness plane is lower than that for the 4:1 elliptical nose body, indicating that the primary horseshoe vortex is weaker for the 4:1 wedge elliptical nose at this plane. It appears that the 4:1 wedge elliptical nose reduced the strength of the primary horseshoe vortex at the leading edge further. This result is consistent with the analysis given at the beginning of Section 4.4.

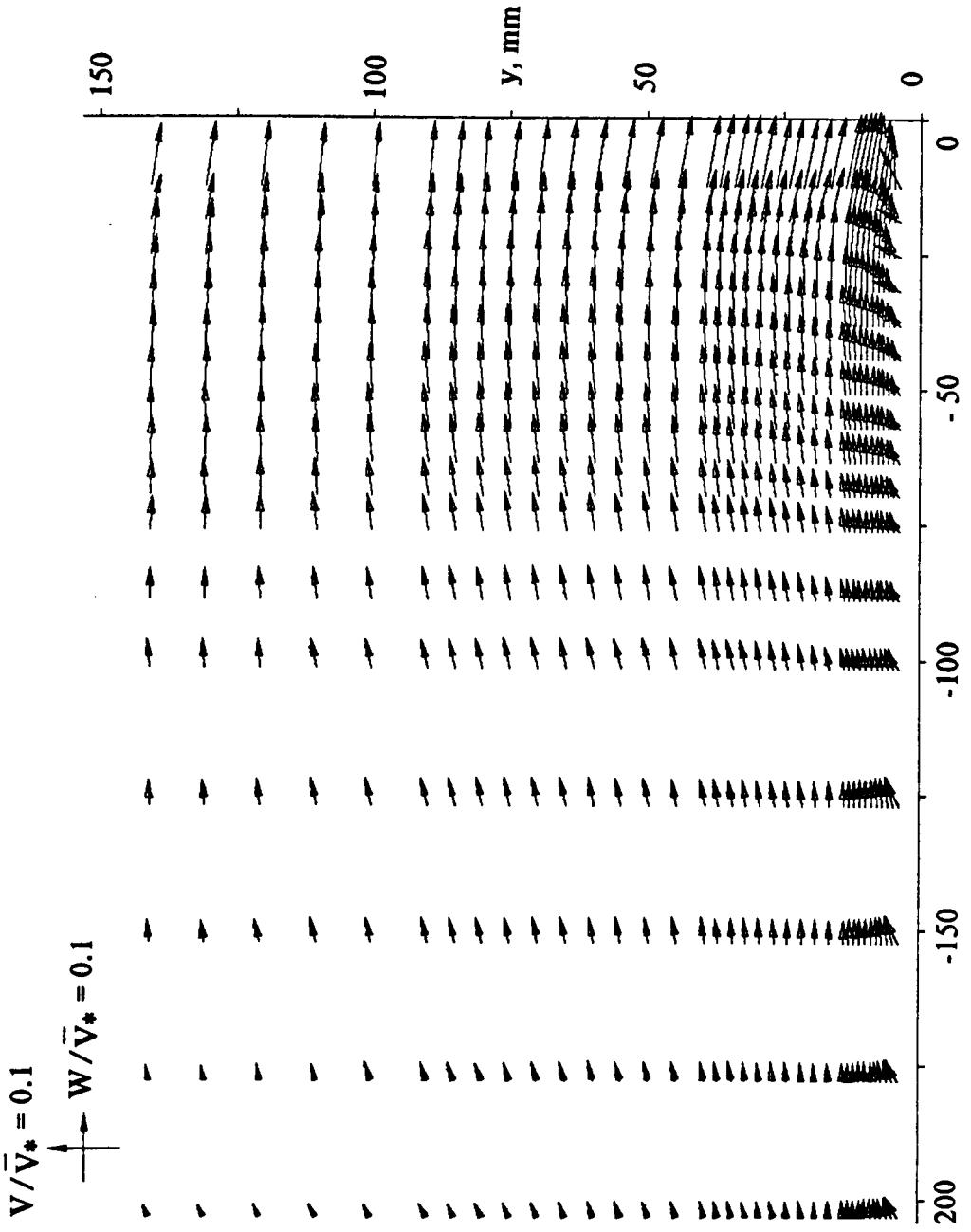


Fig. 4.75 Secondary Velocity Distribution at 100 Percent Chord for the 4:1 Wedge Elliptical Nose Body

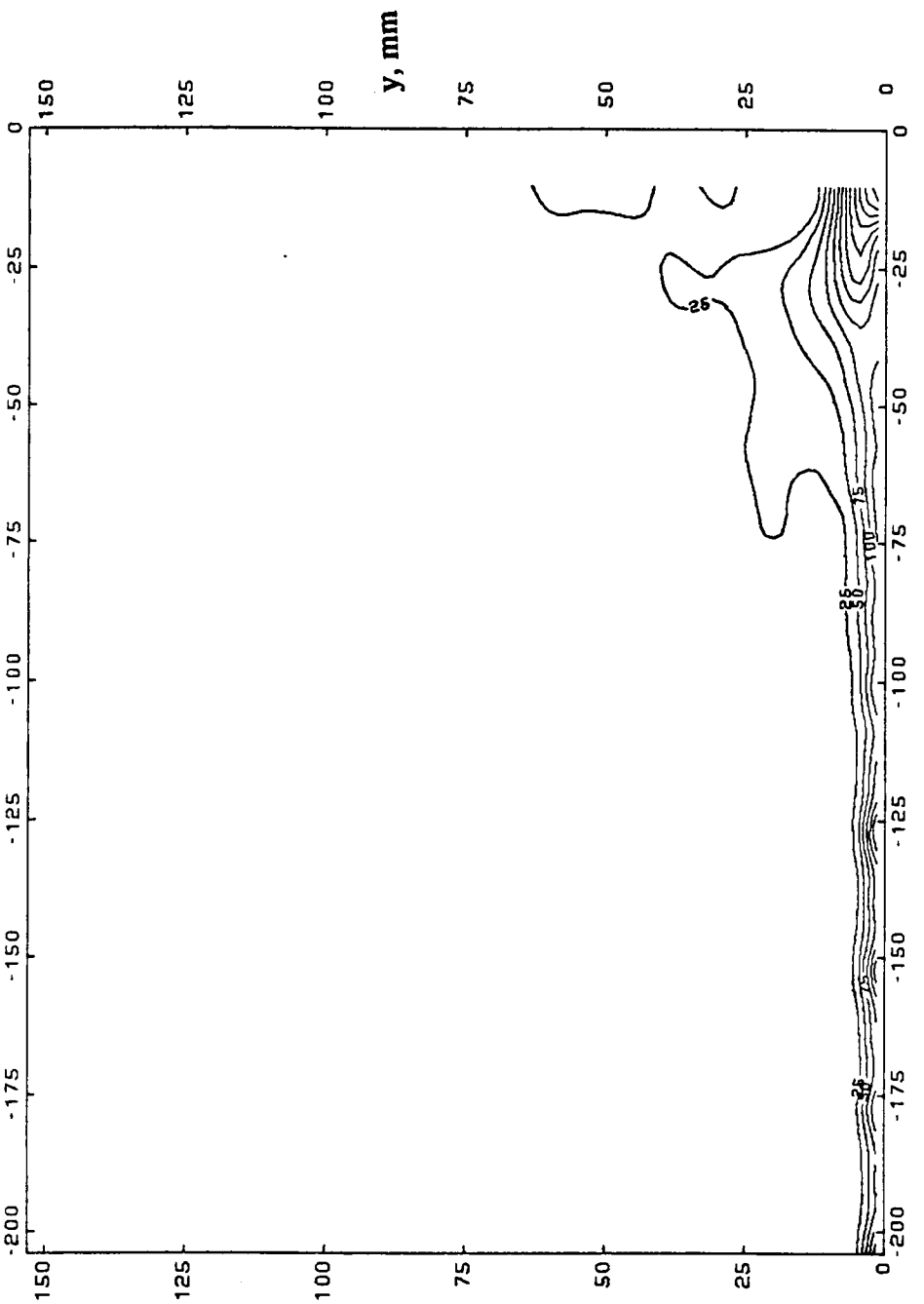


Fig. 4.76 x-Component Vorticity Distribution at 100 Percent Chord for the 4:1 Wedge Elliptical Nose Body

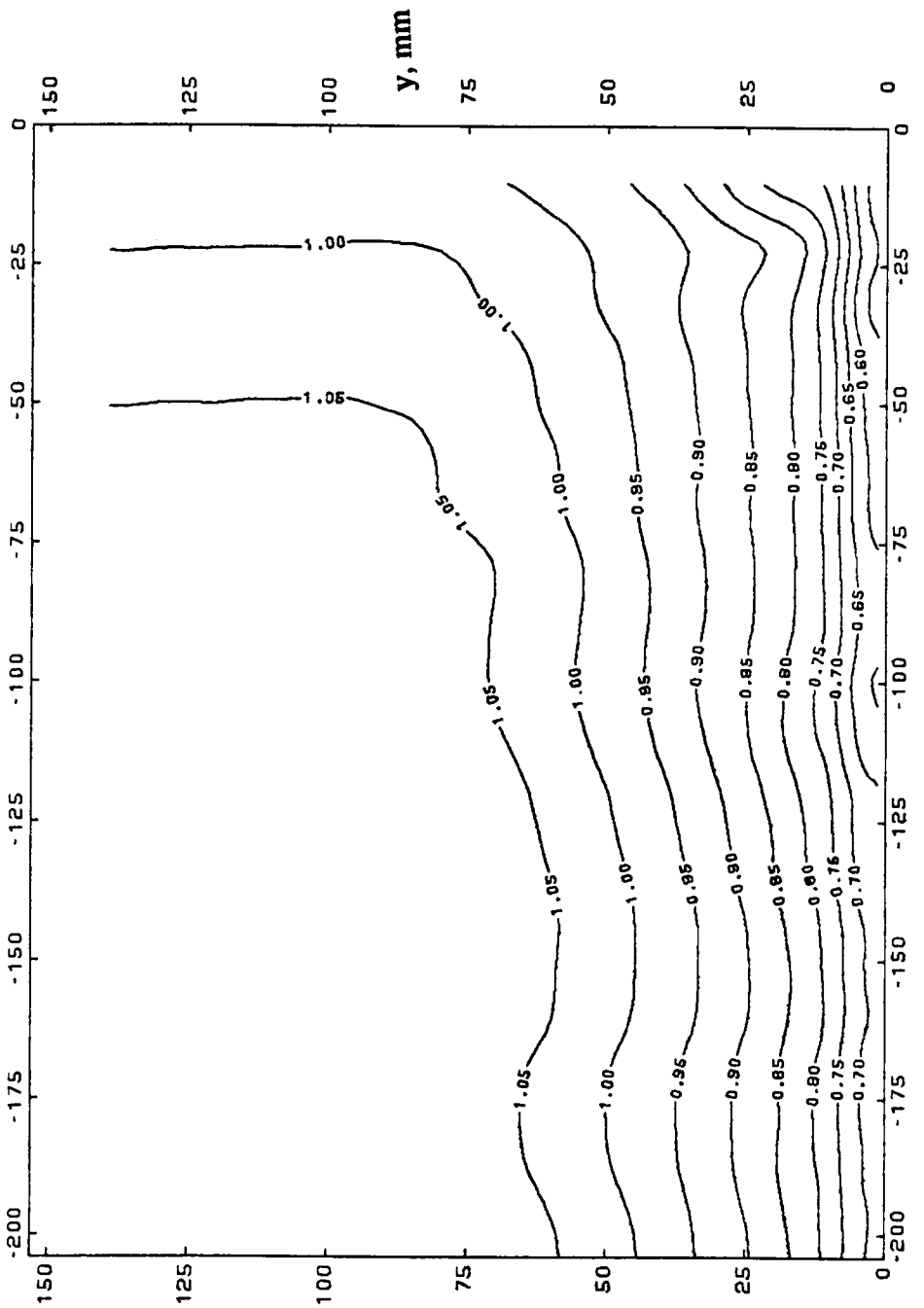


Fig. 4.77 U velocity Distribution at 100 Percent Chord for the 4:1 Wedge Elliptical Nose Body

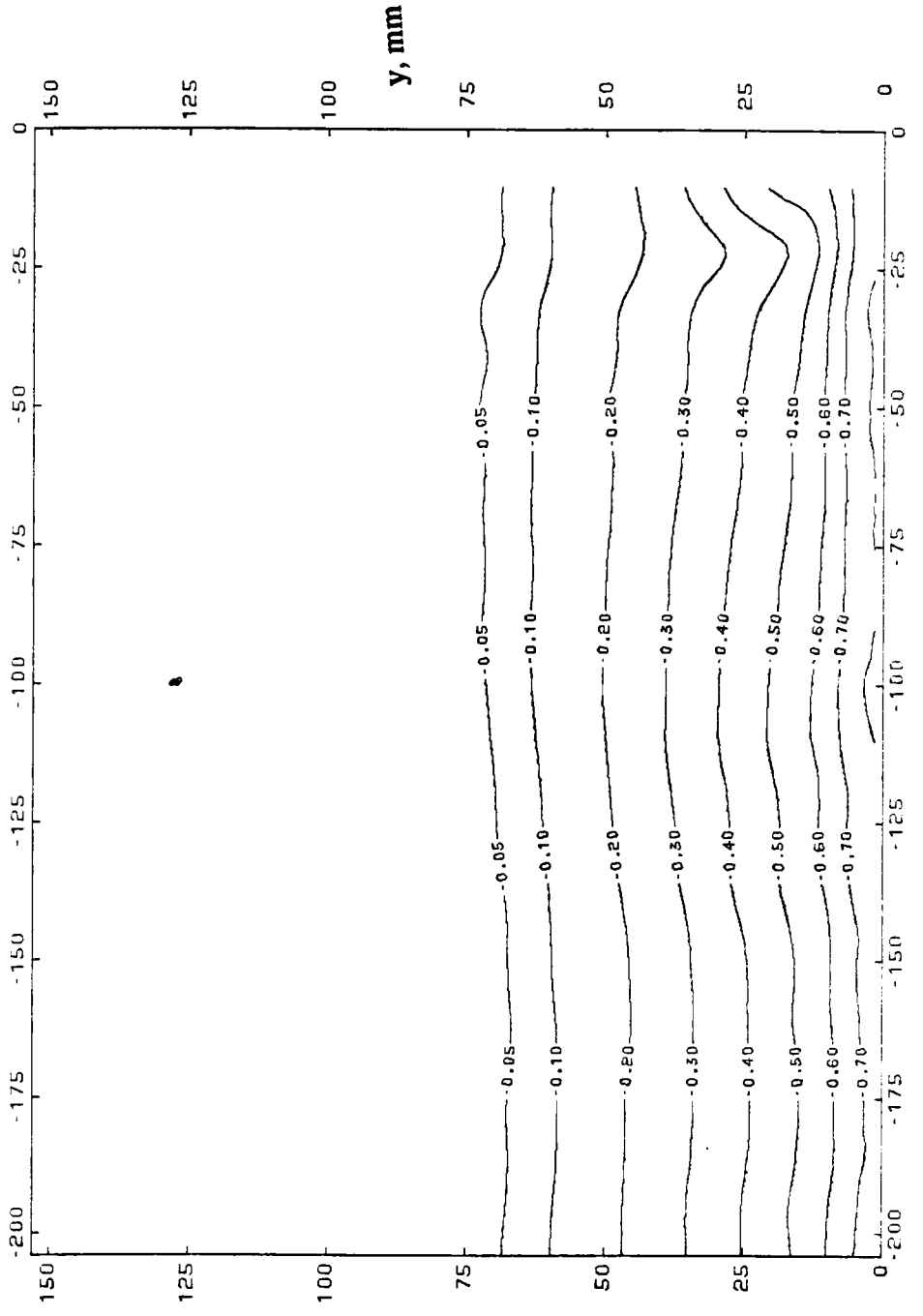


Fig. 4.78 Total Pressure Coefficient Distribution at 100 Percent Chord for the 4:1 Wedge Elliptical Nose Body

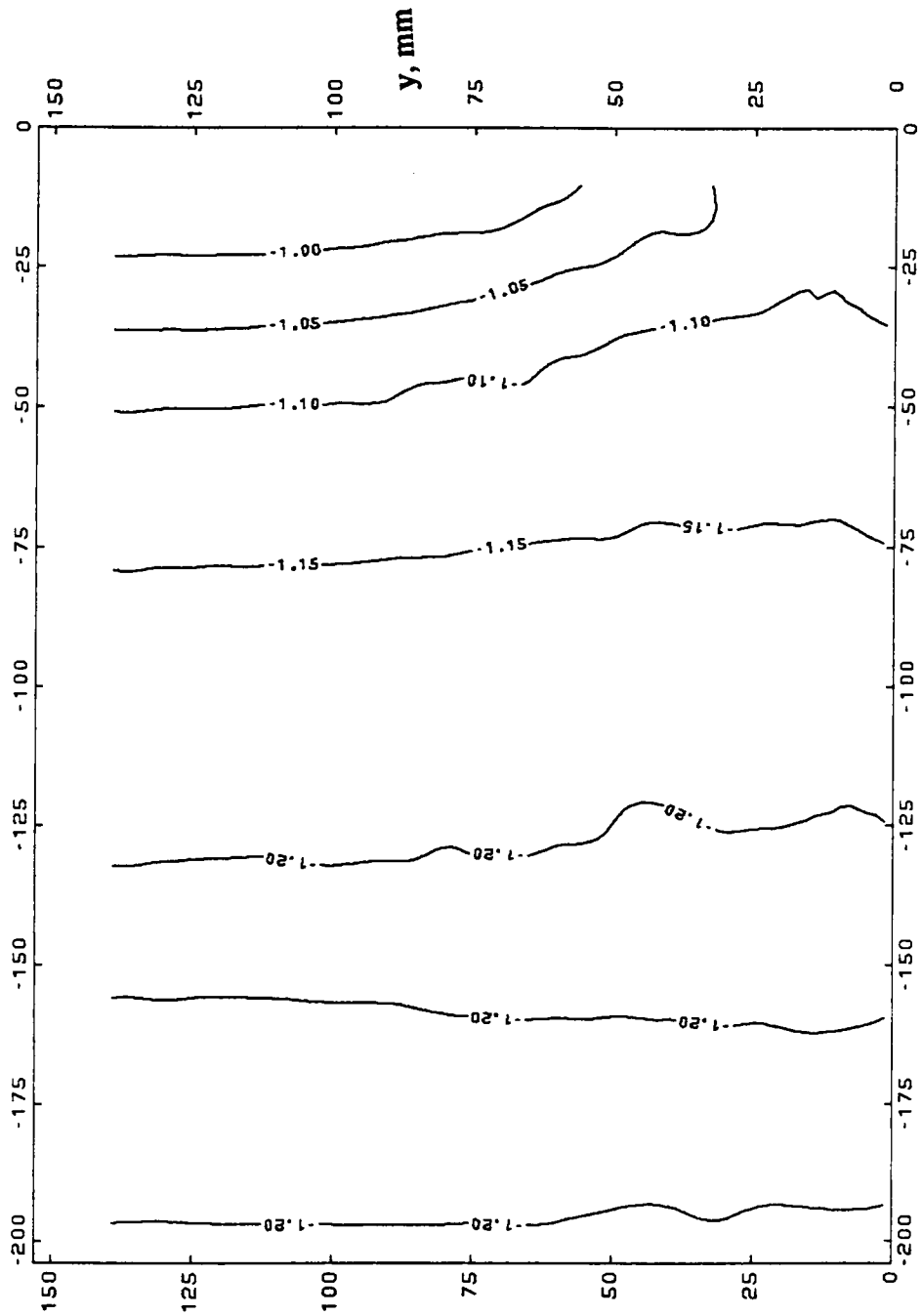


Fig. 4.79 Static Pressure Coefficient Distribution at 100 Percent Chord for the 4:1 Wedge Elliptical Nose Body

The results show that the flow fields at the 100 percent chord location for these two bodies are almost identical, indicating that the replacement of the nose with the 4:1 wedge elliptical nose did not have any significant effect on the flow field at the 100 percent chord location. This suggests that the primary horseshoe vortex originating at the leading edge dissipates alongside the body and appears to have almost no effects on the flow near the trailing edge for both bodies. This conjecture is supported by the floor surface flow visualization studies. It was observed that the floor surface flow visualizations for both bodies did not show a high shear stress line clearly around the body.

Even though the strength of the horseshoe vortex has been reduced effectively, a vortex still exists in the wake as seen at the 150 percent chord plane for the 4:1 elliptical nose body. This is assumed to be due to the corner separation vortex originating near the trailing edge. Since the origin of this vortex structure appears to be near the trailing edge, leading edge modifications are not likely to be effective to control this vortex directly.

4.5 Fillet Effects

In the junction flow the nominally two-dimensional upstream turbulent boundary layer on the flat floor experiences a large adverse pressure gradient as it approaches the body leading edge. This pressure gradient causes the boundary layer to separate ahead of the body leading edge, resulting in a vortex which rolls up and trails downstream in the junction. The physics of the flow described above suggests that the strength and the size of the vortex can be reduced by making the pressure gradient smaller. It was expected that a leading edge fillet could lower the adverse pressure gradient by filling in the sharp corner formed between the body leading edge and the floor.

Fillets have been extensively used in aircraft to reduce the drag due to the interference of the wing/fuselage junction. At present, the design of fillets is dominated by the trial-error approach. This is because the horseshoe vortex system, which is the main feature of junction flows, cannot be easily predicted by either potential flow theory or the boundary layer approximation. Although solving the Navier-Stokes equations seems to be a feasible approach, the Navier-Stokes solutions of junction flows require very large computer such as the CRAY 2.

Since analytical approaches have limitations due to the complex character of the flow, the fillets used in the present study were designed based on the information provided by previous studies [86-88,101,104]. Frangistas [101] used two round fillets with different radii and one elliptic fillet in the corner of the junction between the body and the floor, and measured the turbulent kinetic energy field in the plane of symmetry upstream of the body leading edge. He found that these small corner fillets did not have any significant effects on the turbulent kinetic energy field. He also made real time smoke flow visualizations on the plane of symmetry and these showed the vortex structure was of the same character, that is, with qualitatively the same kind of large time variations and same scales. His results suggest that the small corner fillets are not effective in reducing the strength of the vortex in the plane of symmetry. Scheiman and Kubendran [104] also used a constant radius corner fillet and found that it merely shifted the location of the horseshoe vortex without effecting the strength of the vortex. Hence, it was decided to restrict the modifications to the region from the leading edge to the maximum thickness location. The following criterion was also used in the design of the fillets. The thickness of the fillet should not exceed the maximum thickness of the body, since it was judged important not to significantly modify the junction potential flow away from the floor.

Three different leading edge fillets were used and the effects of fillets were investigated for the 1.5:1 elliptical nose body. Fillet #1 has a base length of two maximum thicknesses and a height of half the boundary layer thickness. The base length is the length from the front tip of the fillet to the body leading edge. Fillet #2 has a base length of one maximum thickness and the same height as fillet #1. Fillet #3 is geometrically similar to fillet #2, except its base length and the height are twice those of fillet #2. The three fillets are shown in Fig. 2.5.

Experiments were conducted as follows. First, measurements were made at the 100 percent chord plane for each leading edge fillet. Then the results were compared to determine the most effective fillet. The fillet which had the largest reduction in the strength of the horseshoe vortex system at the 100 percent chord plane was considered as the most effective fillet. Circulation and the mean secondary kinetic energy were used as measures for the strength of the horseshoe vortex system. Details of these calculations are discussed in Section 4.6. As a result of the comparisons, it was judged that fillet #3 was the most effective in reducing the strength of the horseshoe vortex system.

Additional measurements were made for fillet #3 to document its effects on the horseshoe vortex system around the body and in the wake. This allowed additional comparisons with the 1.5:1 elliptical nose body without a leading edge fillet. The additional measurement planes for fillet #3 include the 43, 63, 83, 125, and 150 percent chord planes.

Since fillet #2 and fillet #3 were geometrically similar, it was desired to compare the effects of fillet size on the horseshoe vortex system. In addition to the 100 percent chord plane, measurements were also made at the 43 percent chord plane for fillet #2 to investigate the size effects in the flow field around the body.

It was determined that the primary horseshoe vortex originating at the leading edge can be controlled by leading edge fillets. However, the leading edge fillets were not effective in controlling the corner separation vortex originating near the trailing edge. It was considered possible that the use of a trailing edge fillet might reduce the strength and the size of the corner separation vortex near the trailing edge. A single trailing edge fillet was used with fillet #3 at the body leading edge, to investigate the effect of the trailing edge fillet on the corner separation vortex near the trailing edge and in the wake. This trailing edge fillet had a base length of one maximum thickness and a height of one boundary layer thickness and is shown in Fig. 2.6. Measurements were made at the 150 percent chord plane with this trailing edge fillet.

The results are presented in the order of fillet #1, fillet #2, fillet #3, and the trailing edge fillet.

4.5.1 Fillet #1

Measurements were made at one transverse plane at the 100 percent chord position. The secondary velocity vector distribution is shown in Fig. 4.80. No clear vortex structure is seen. Most of the velocity vectors are directed toward the body as seen with the other bodies at this location. The x-component vorticity distribution is shown in Fig. 4.81. A strong positive vorticity region is seen in the corner of the junction. The peak value of this corner vorticity is something of the order of 230/sec. A positive vorticity region near the floor and extending to z = -200 mm is caused by velocity gradients (mainly W-velocity gradients) between the first row of velocity vectors and the zero velocity at the floor. The sign is consistent with the outflow along the floor as seen in the secondary velocity distribution of Fig. 4.80. Figure 4.82 shows the U velocity distribution. A small valley of

the contours seen near z = -20 mm indicates the effects of the corner vorticity. Contours on the left of this valley show a boundary layer like distribution indicating weak effects of the primary horseshoe vortex, which is consistent with the secondary velocity distribution. The total pressure distribution shown in Fig. 4.83 also shows a valley in the contours around z = -20 mm, consistent with the U velocity distribution. Figure 4.84 shows the static pressure distribution which shows the nearly constant static pressure along the y direction.

No apparent vortex structure is seen in the secondary velocity vector distribution, whereas a vortex structure was clearly seen at this plane for the 1.5:1 elliptical nose body. Positive vorticity identified with the primary horseshoe vortex is not seen. Only one small positive vorticity region is seen in the corner of the junction with its core location corresponding to that of corner vorticity for the 1.5:1 elliptical nose body. These results suggest that the primary horseshoe vortex has dissipated alongside the body and has very small effects on the flow field at the 100 percent chord plane. It is believed that weak effects of the primary horseshoe vortex on the vorticity field result in a single corner vorticity region rather than two distinct positive vorticity regions as seen for the 1.5:1 elliptical nose body in Fig. 4.40. It appears that most of the vorticity in the junction at this plane is identified with the corner separation vortex originating near the trailing edge.

The peak value of the primary vorticity was 190/sec and the peak value of the corner vorticity was 400/sec for the 1.5:1 elliptical nose body (see Section 4.3.5). Since the peak value of corner vorticity has decreased to 230/sec, it appears that the leading edge fillet #1 has some effects on the strength of the corner separation vortex.

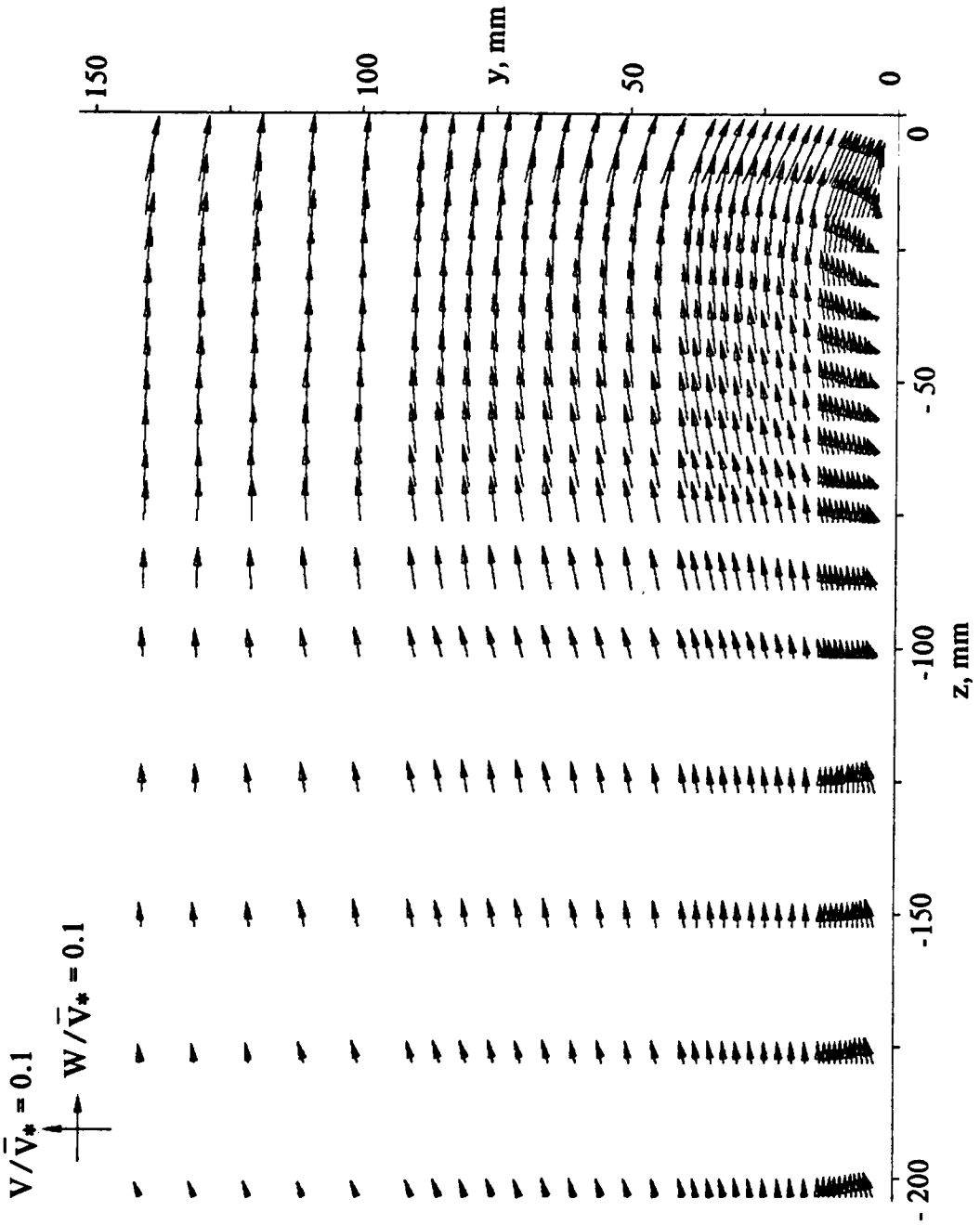


Fig. 4.80 Secondary Velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #1

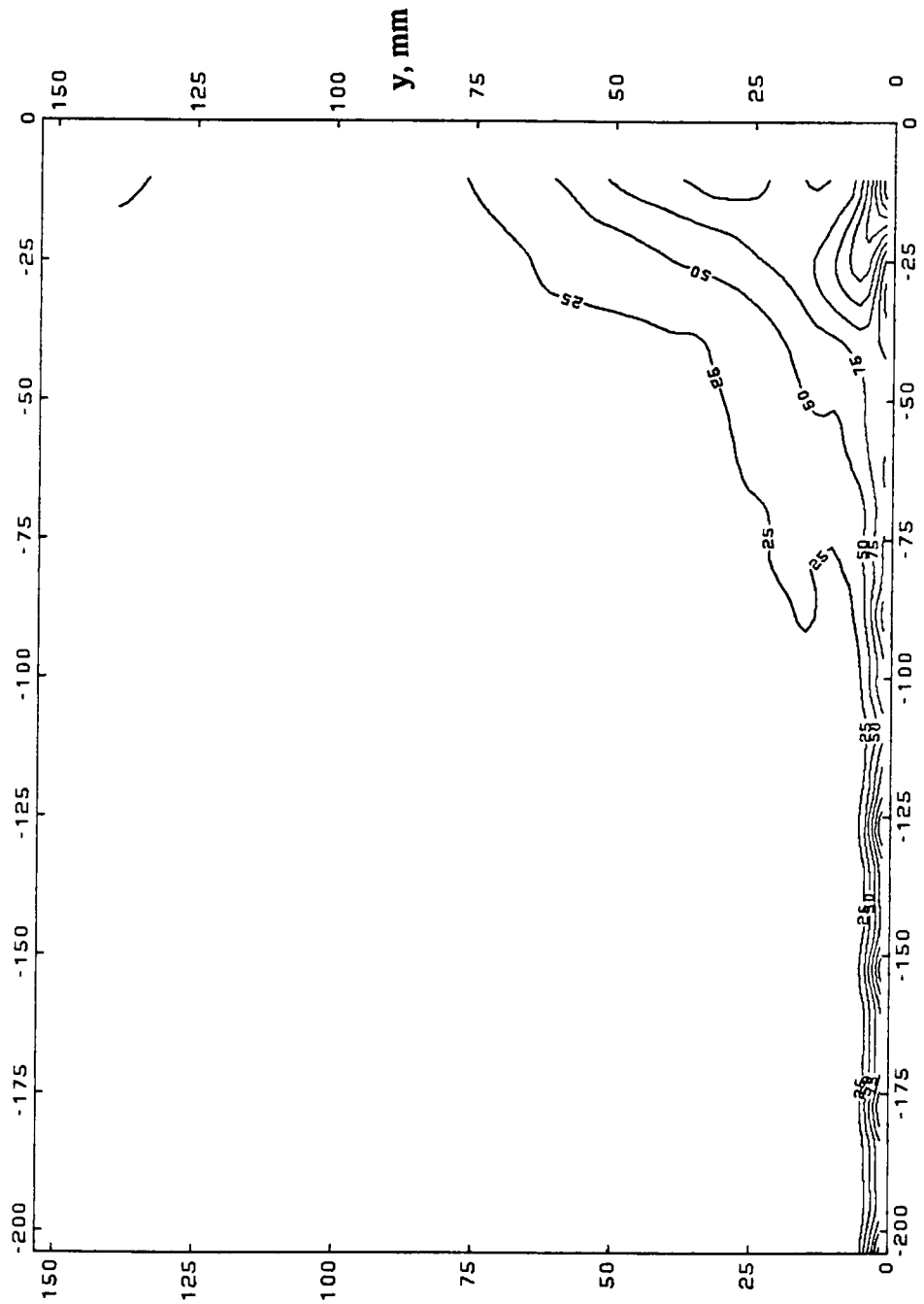


Fig. 4.81 x-Component Vorticity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #1

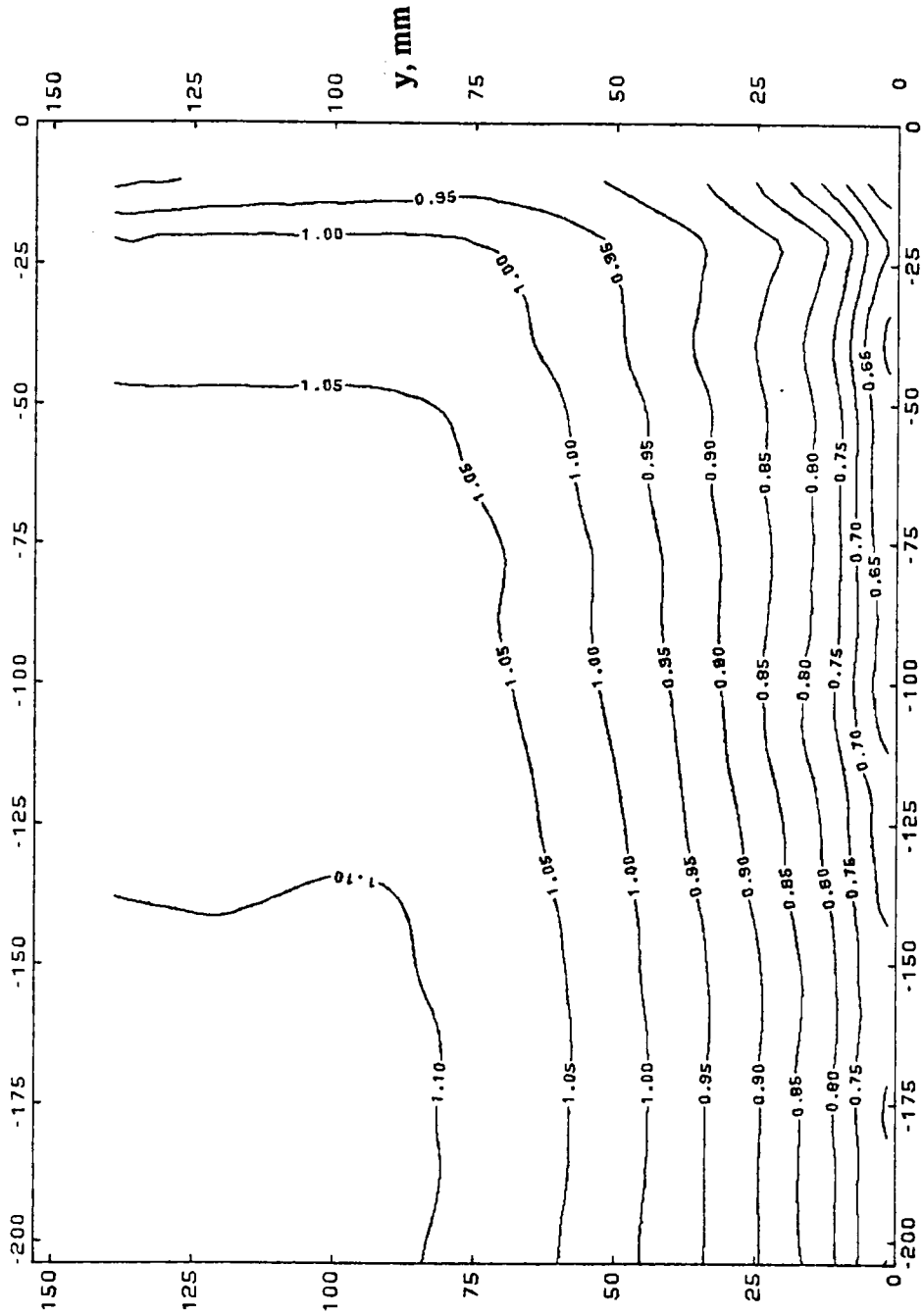


Fig. 4.82 U velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #1

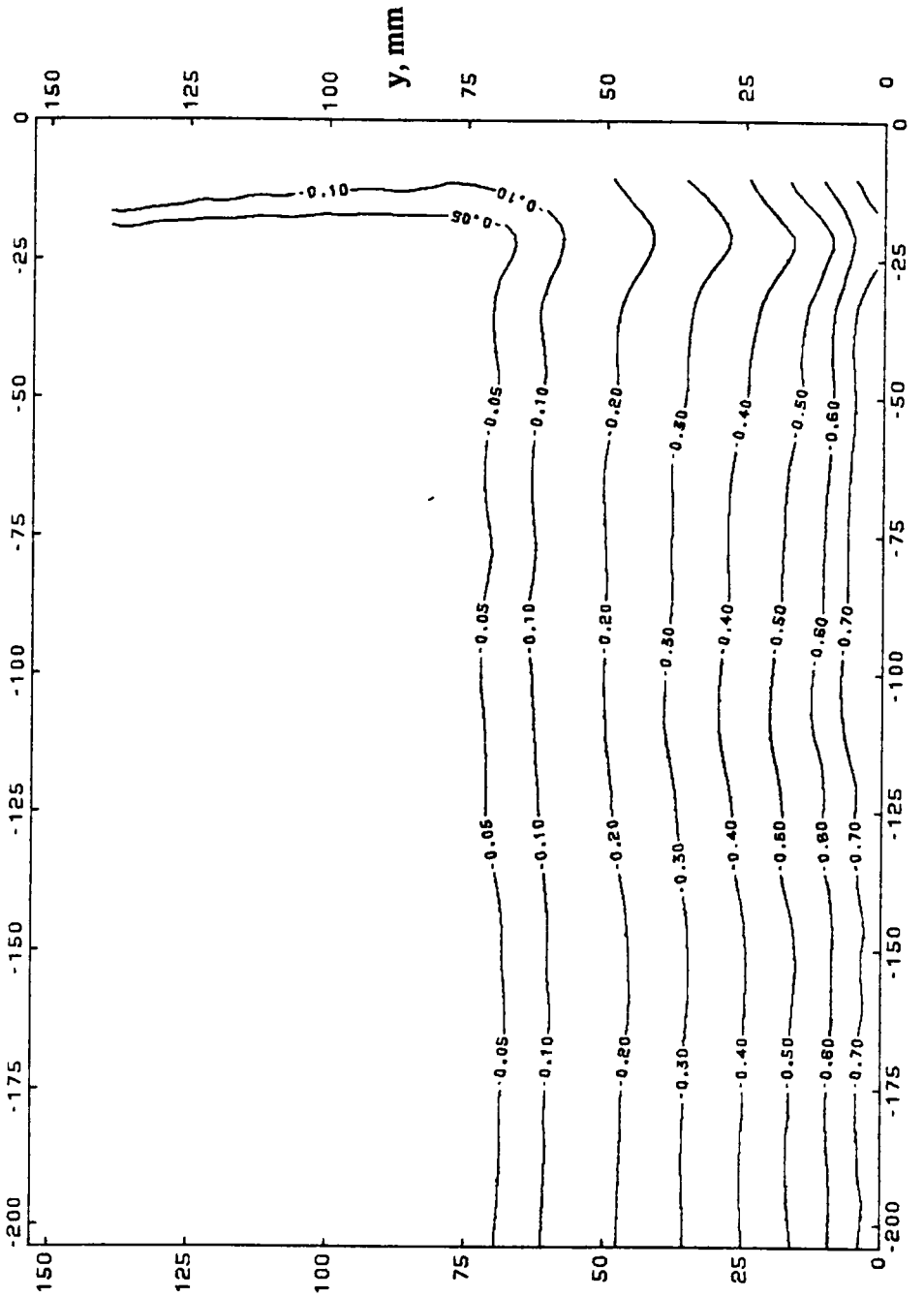


Fig. 4.83 Total Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #1

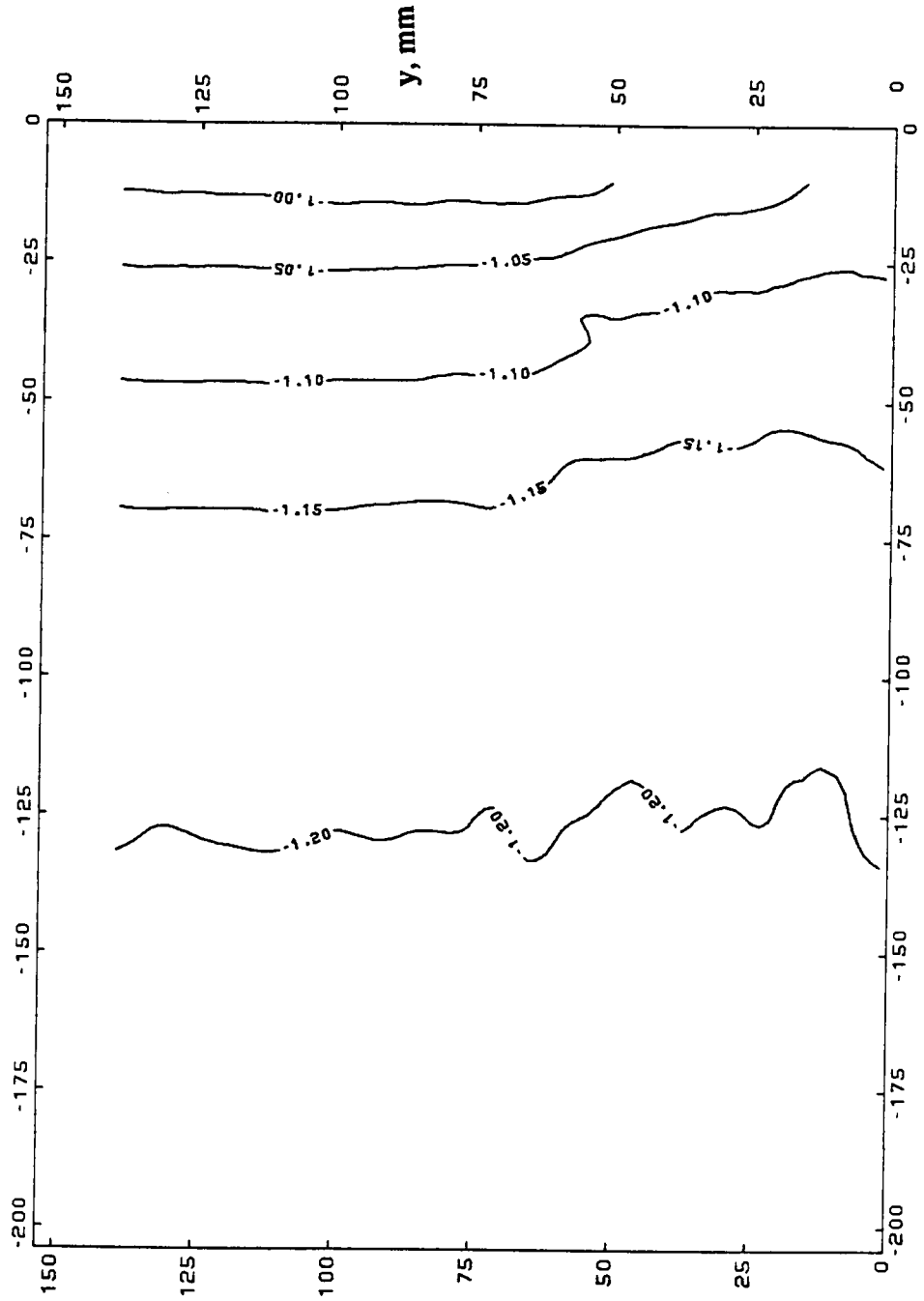


Fig. 4.84 Static Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #1

4.5.2 Fillet #2

This fillet has a base length of one maximum thickness and a height of half the boundary layer thickness. Measurements were made at the 43, and the 100 percent chord plane. This fillet has the same height but half of the base length compared to fillet #1, hence a comparison will be made with fillet #1 at the 100 percent chord plane to investigate the effect of the base length on the effectiveness of the leading edge fillet.

4.5.2.1 43 Percent Chord Plane

Measurements were made at this plane for two purposes. First, a comparison was to make with the results for the 1.5:1 elliptical nose body without any leading edge fillet. Additionally this permitted a comparison with fillet #3, since fillet #2 is geometrically similar to fillet #3. The comparison with fillet #3 will be given in Section 4.5.3.1.

The secondary velocity vector distribution is shown in Fig. 4.85. No obvious vortex structure is seen, however a vortex structure can be envisioned near the floor around z = -50 mm. Most of the velocity vectors are directed toward the body, with this inflow suggesting the mean flow is following the body contour.

The x-component vorticity distribution is shown in Fig. 4.86. A positive vorticity region identified with the primary horseshoe vortex appears to be centered around z = -70 mm and y = 8 mm. This positive vorticity region is not formed as a separate region as seen for the 1.5:1 elliptical nose body (see Fig. 4.35) suggesting the absence of well-defined vortex structure, which is consistent with the secondary velocity vector distribution. The peak vorticity value has reduced to 235/sec compared with 490/sec for the 1.5:1 elliptical nose body. A small positive vorticity region is seen in the corner of the junction. This

vorticity is believed to be induced by the shear layer like distribution of the secondary velocity vectors near z = -38 mm near the floor rather than a real vortex, because the U velocity and the total pressure distributions do not show any effects of this small positive vorticity.

The U velocity distribution is shown in Fig. 4.87. Higher U velocity fluid is seen in the corner of the junction. Compared to the U velocity distribution for the 1.5:1 elliptical nose body, velocity contours around z = -75 mm and near the floor are more smoothly curved toward the floor suggesting a weaker effect of any vortex structure. No effects of the small corner vorticity are seen, suggesting that the small corner vorticity region in the x-component vorticity distribution is not due to a real vortex.

The total pressure distribution and the static pressure distribution are shown in Fig. 4.88 and Fig. 4.89. The total pressure distribution also shows much smoother curved contours around z = -75 mm and near the floor, which is consistent with the U velocity distribution. The static pressure distribution shows nearly constant static pressure along the y direction.

The comparison with the 1.5:1 elliptical nose body without a leading edge fillet suggests that the strength of the primary horseshoe vortex has reduced by fillet #2.

4.5.2.2 100 Percent Chord Plane

The graphical results at the 100 percent chord plane are shown in Figs. 4.90 through 4.94. The secondary velocity vector distribution and the U velocity distribution are very similar to the corresponding distributions for fillet #1. The x-component vorticity distribution also shows a very similar distribution with the same order of the peak vorticity value (230/sec) as for fillet #1. The total pressure and the static pressure distributions show

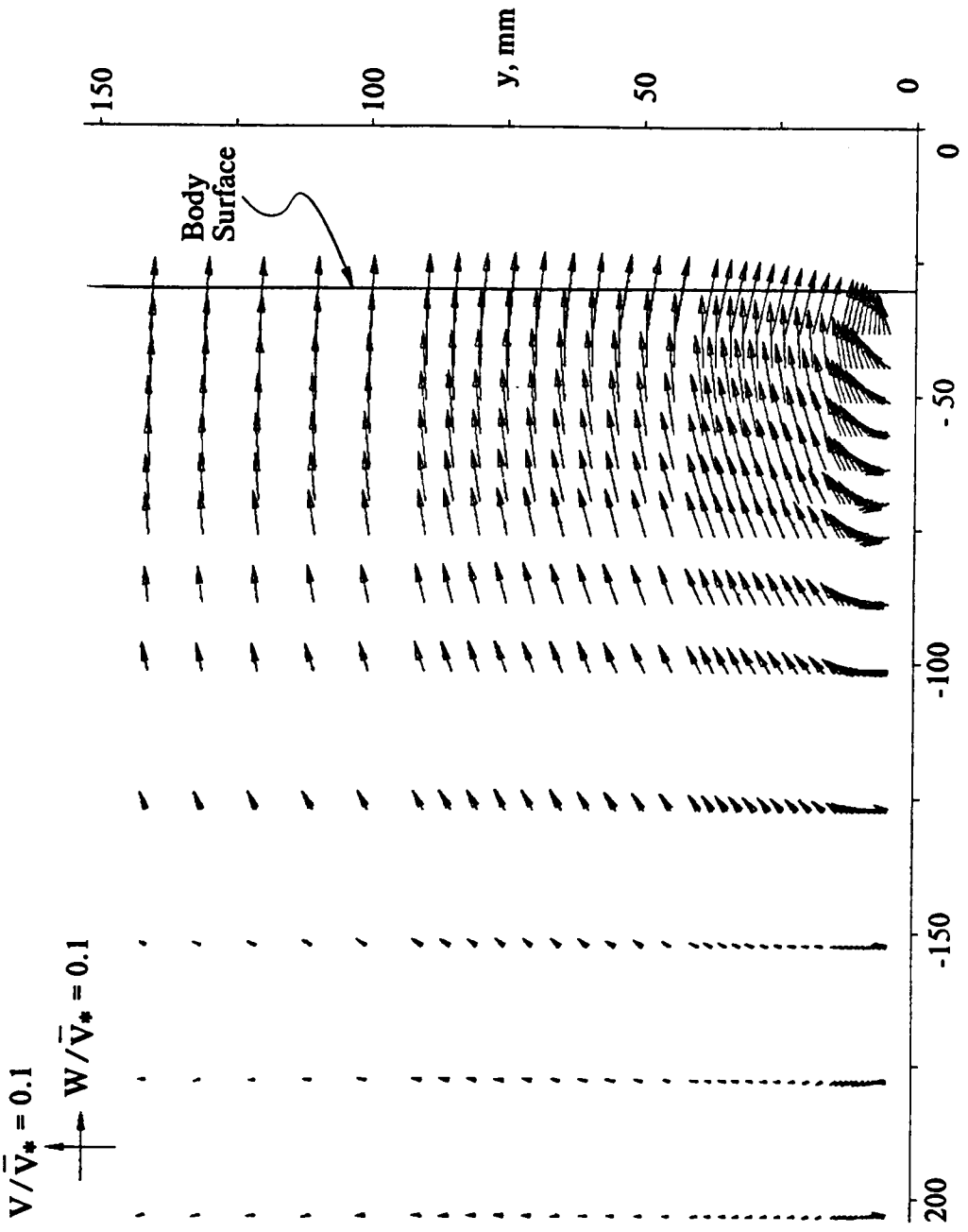


Fig. 4.85 Secondary Velocity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2

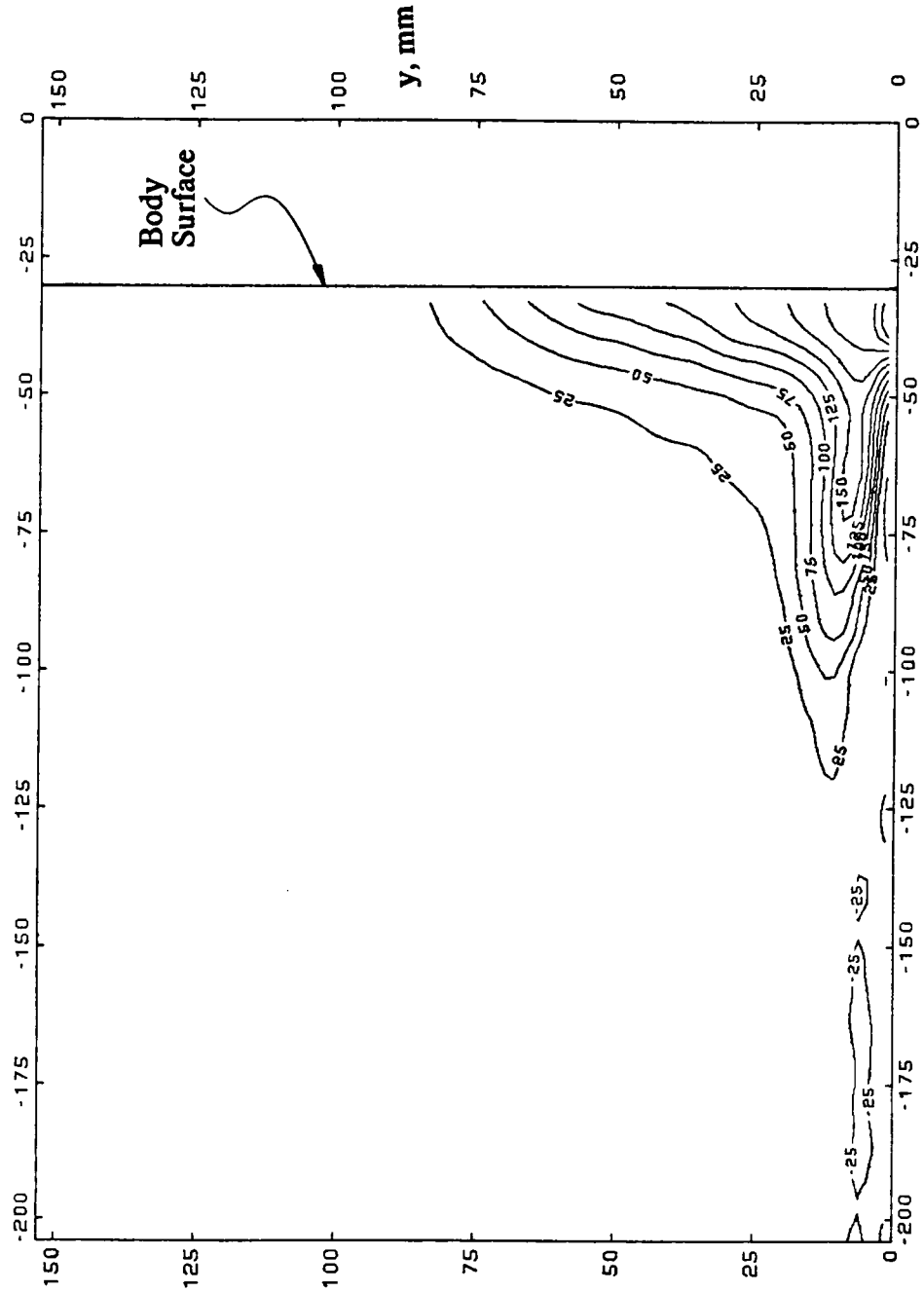


Fig. 4.86 x-Component Vorticity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2

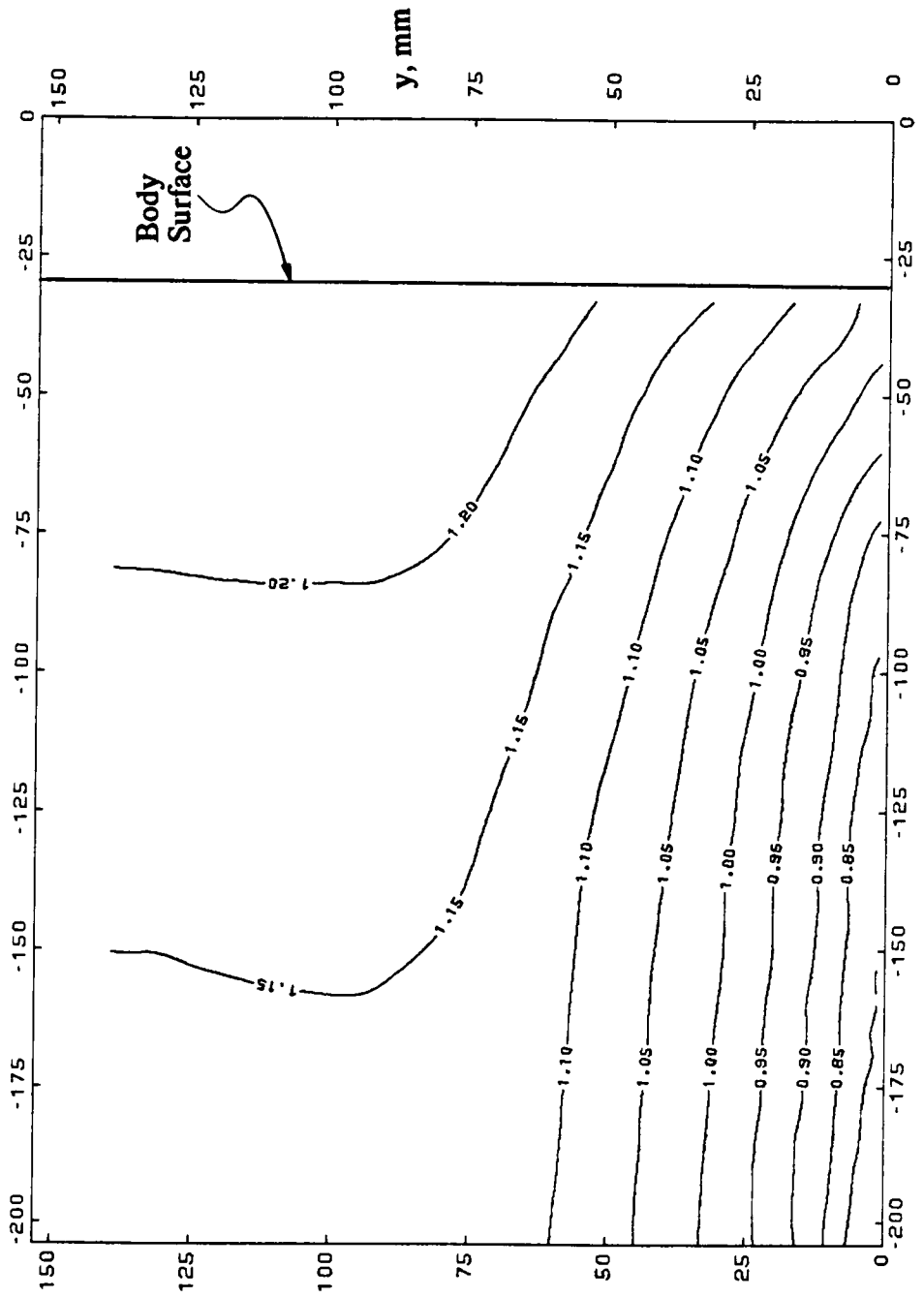


Fig. 4.87 U velocity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2

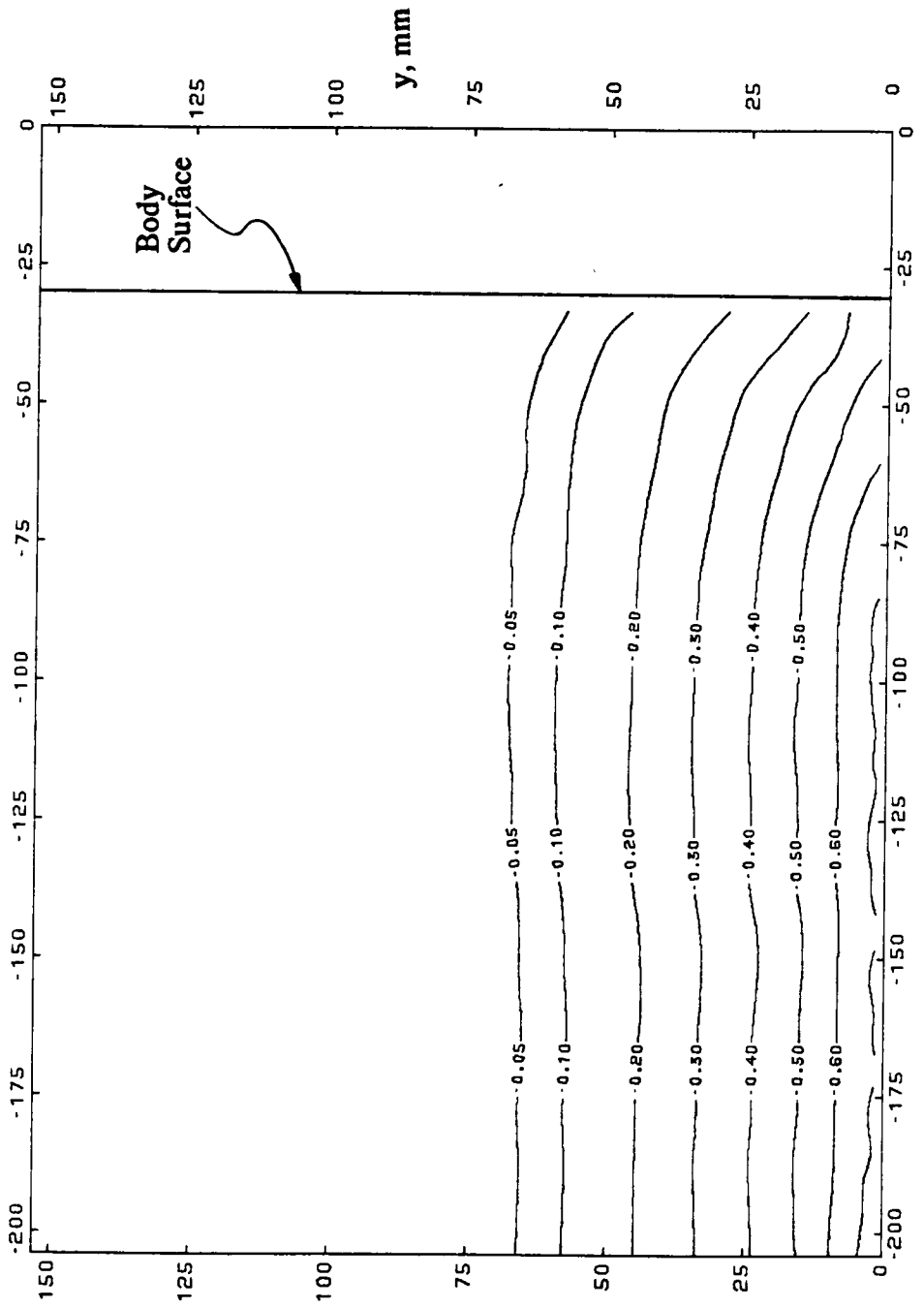


Fig. 4.88 Total Pressure Coefficient Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2

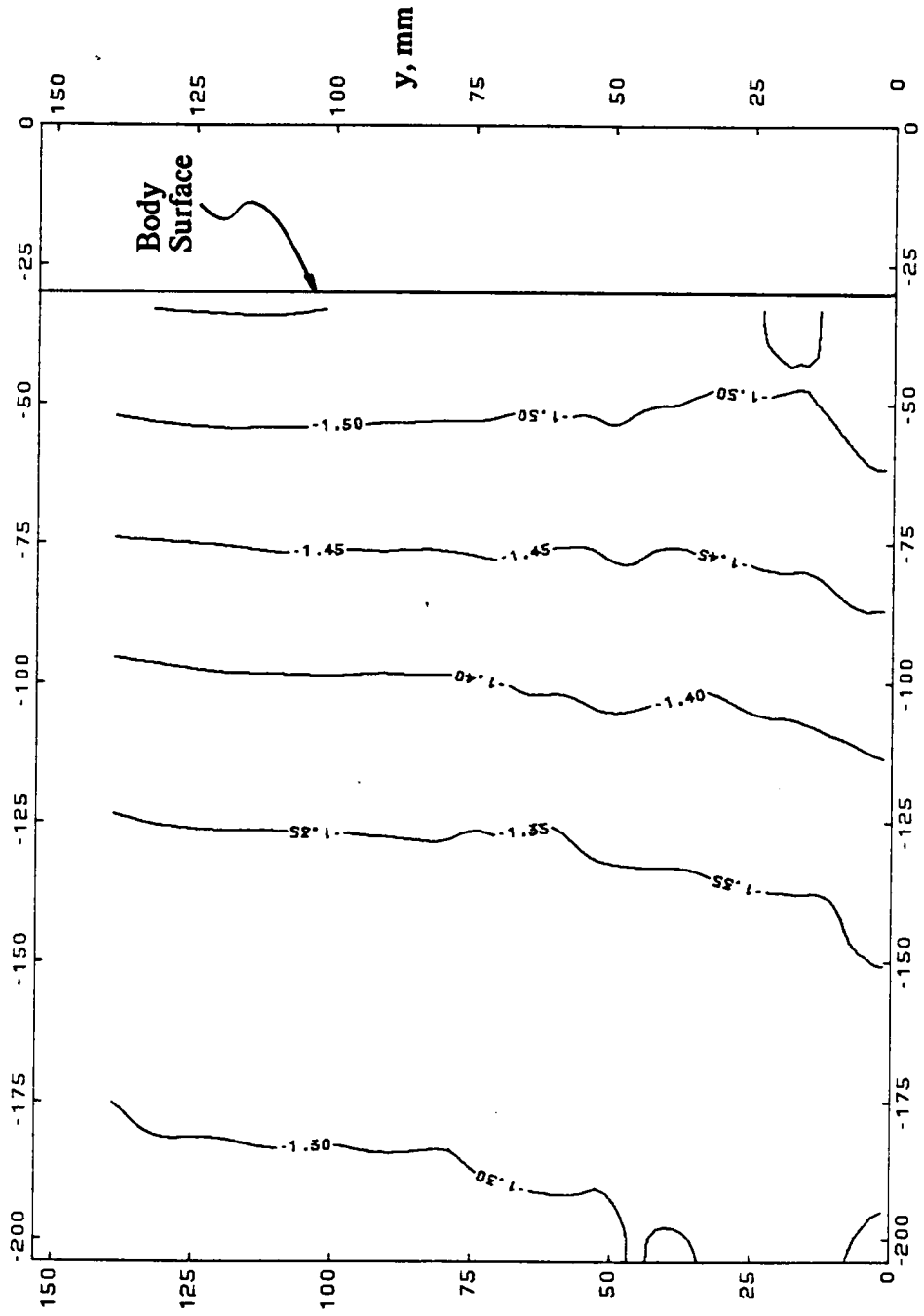


Fig. 4.89 Static Pressure Coefficient Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2

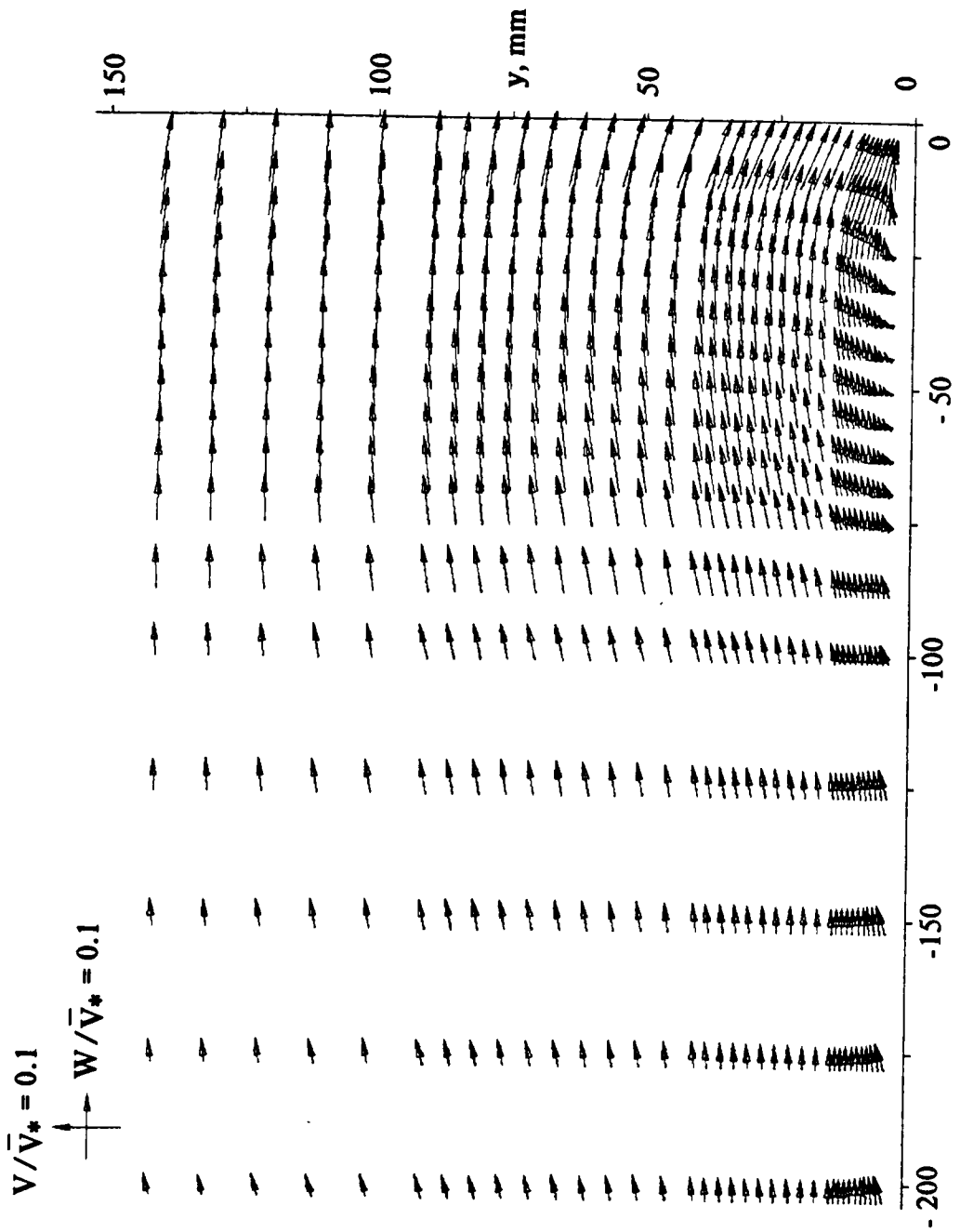


Fig. 4.90 Secondary Velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2

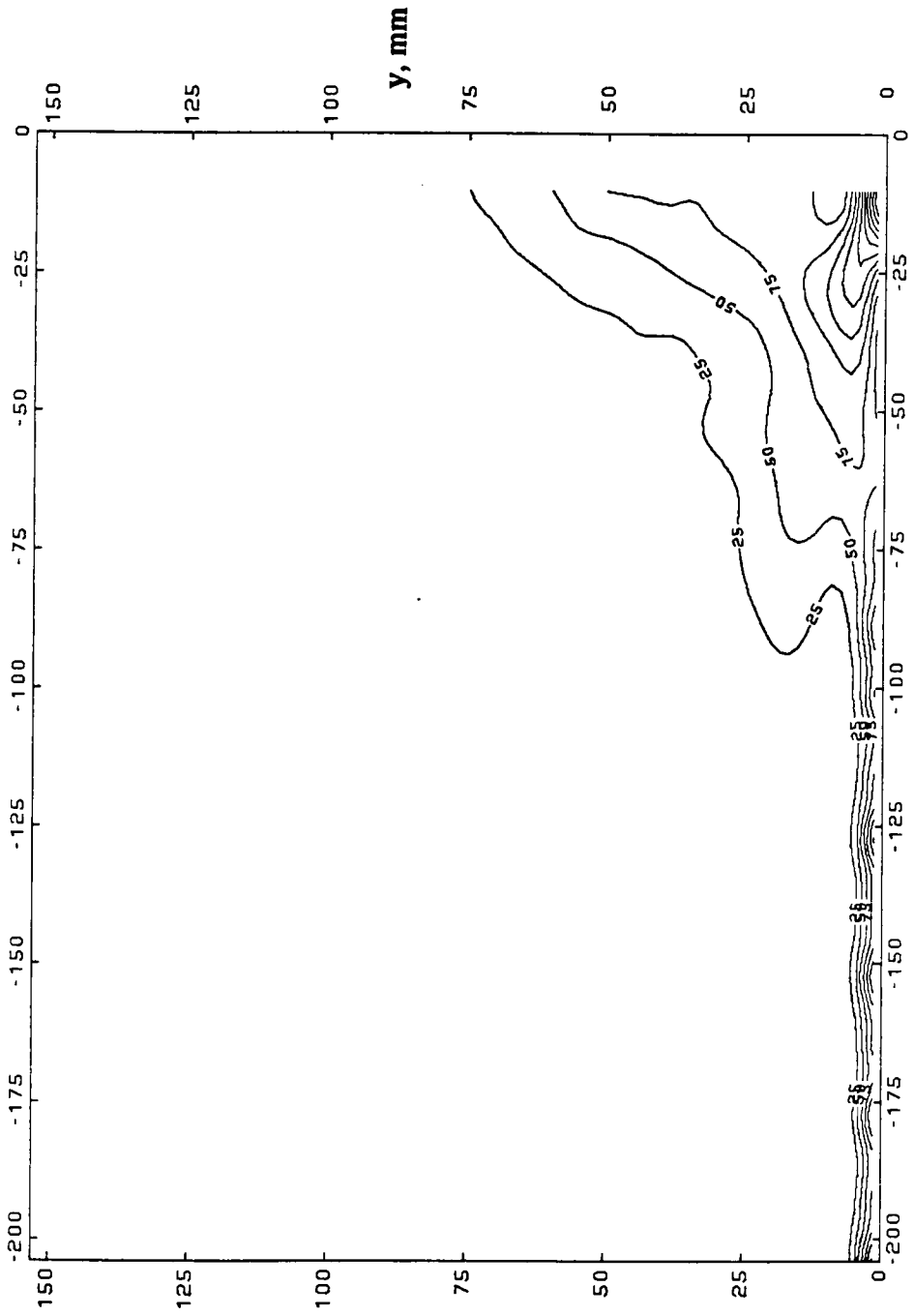


Fig. 4.91 x-Component Vorticity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2

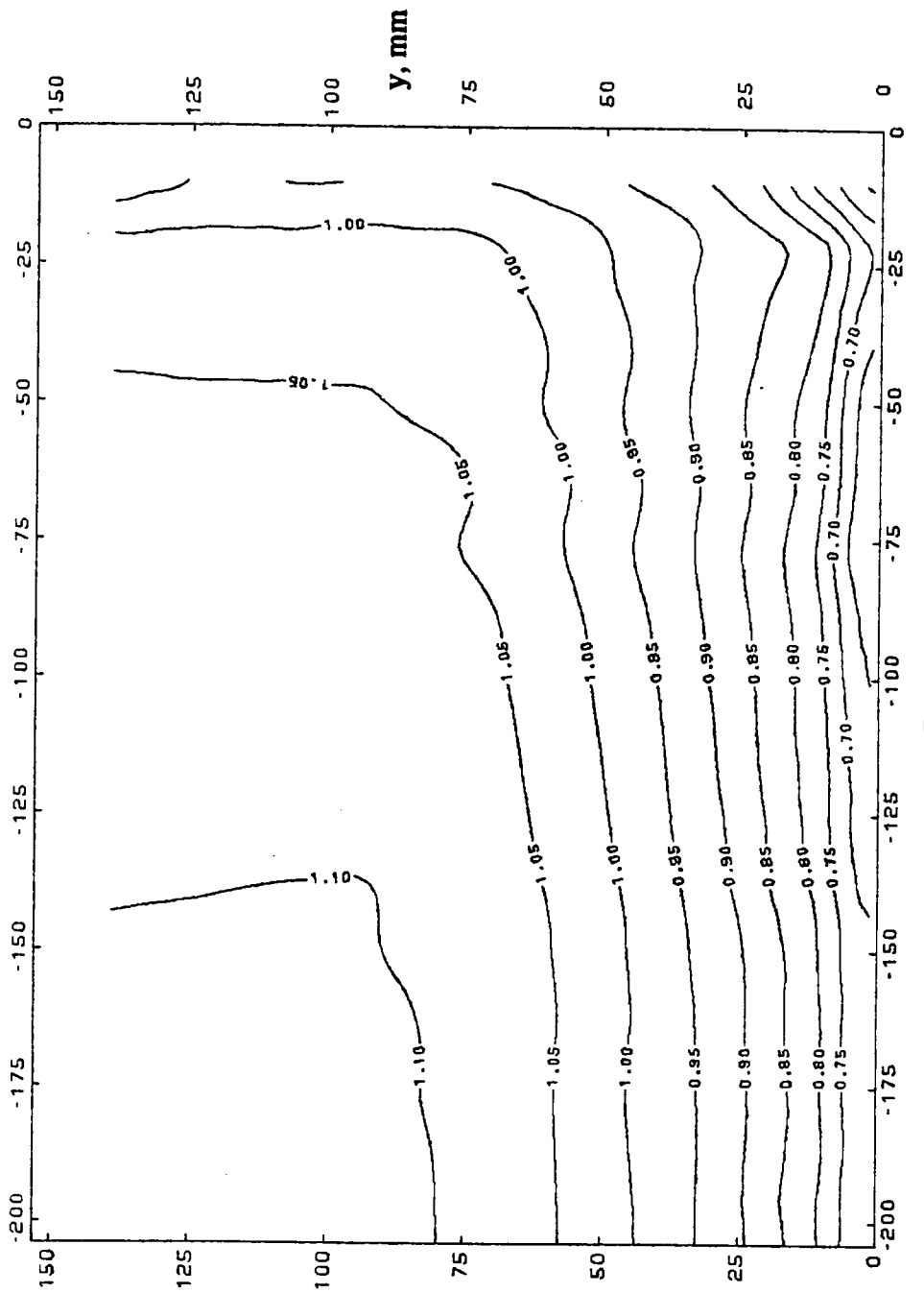


Fig. 4.92 U velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2

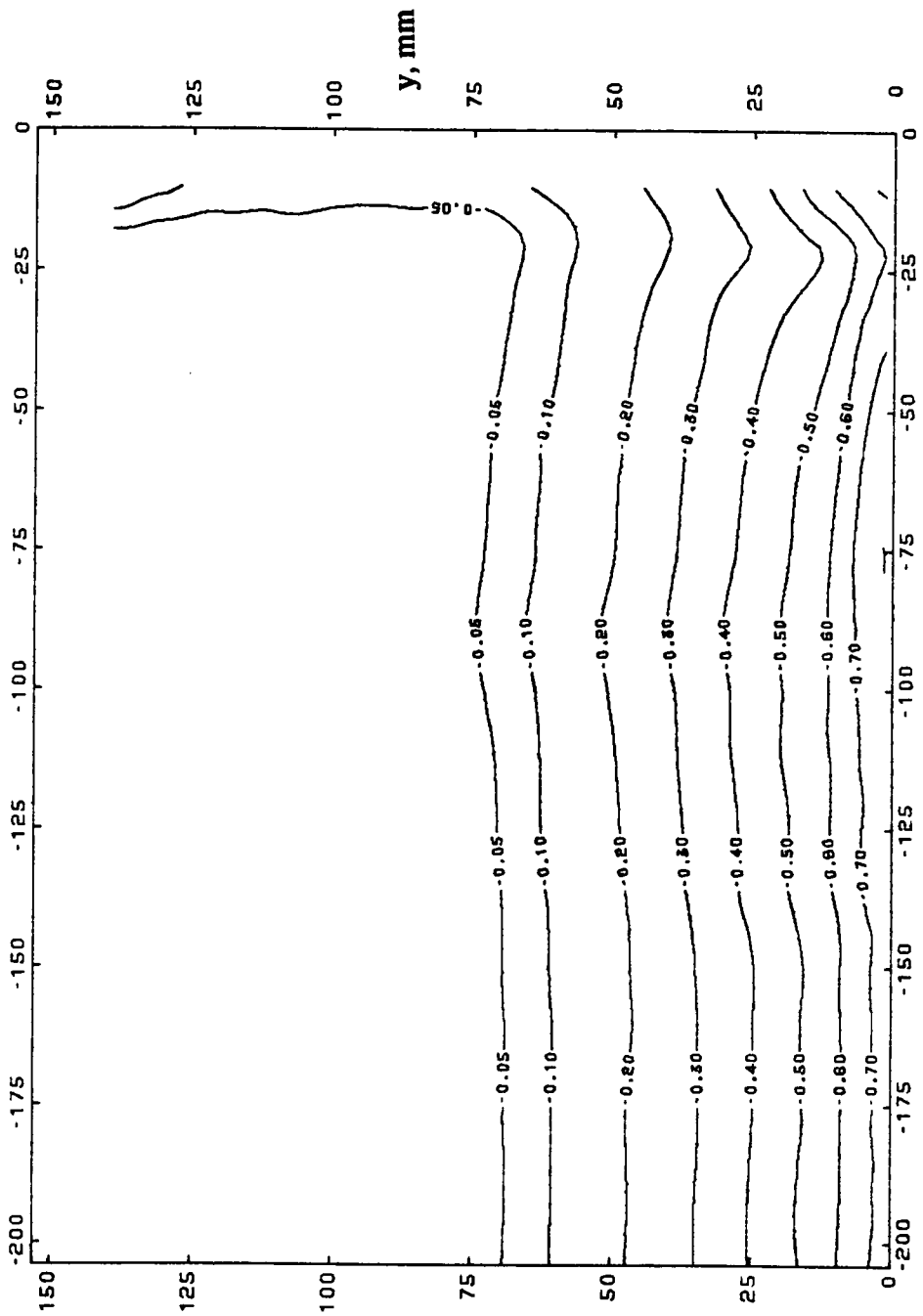


Fig. 4.93 Total Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2

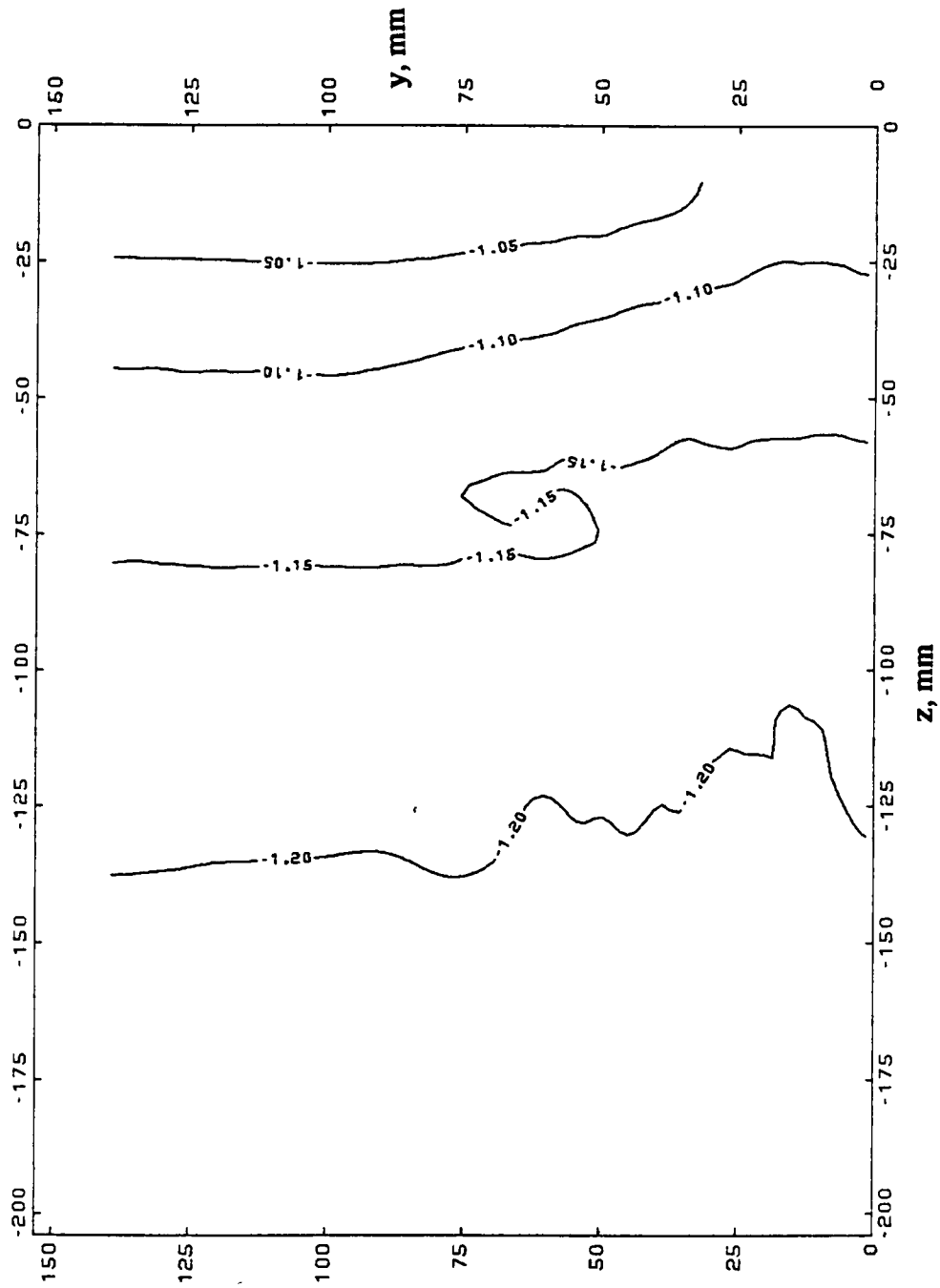


Fig. 4.94 Static Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #2

the same essential features. It appears that the base length of the fillet is not a major factor in the design of a fillet for a given height, since the flow field of fillet #2 at this plane did not show any significant differences compared to the flow field of fillet #1.

4.5.3 Fillet #3

This fillet has a base length of two maximum body thicknesses and a height of one boundary layer thickness. As discussed in Section 4.6, it was judged that fillet #3 was the most effective in reducing the strength of the horseshoe vortex system based on comparisons of circulation and mean secondary kinetic energy at the 100 percent chord plane. More measurements were made for fillet #3 to document the behavior of the horseshoe vortex system alongside the body and in the wake so that comparisons would be made with the results for the 1.5:1 elliptical nose body. The additional measurement planes include the 43 percent chord, 63 percent chord, 83 percent chord, 125 percent chord, and 150 percent chord planes.

The effects of the fillet height on the effectiveness of the leading edge fillet were investigated by making a comparison with fillet #1 at the 100 percent chord plane.

This fillet is geometrically similar to fillet #2, so the effects of the fillet size itself were also investigated at the 43 percent chord and the 100 percent chord planes.

4.5.3.1 43 Percent Chord Plane

Measurements were made at this plane to make comparisons with the 1.5:1 elliptical nose body without a leading edge fillet, and with fillet #2.

Figure 4.95 shows the secondary velocity vector distribution. This figure shows no clear vortex structure, while in Fig. 4.85, a vortex structure can be envisioned close to the floor for fillet #2. The vortex structure was clearly seen at this location without a fillet as shown in Fig. 4.34. A strong secondary flow is seen near the floor in the junction region.

The x-component vorticity distribution is shown in Fig. 4.96. A positive vorticity region along the body side appears to be induced by V velocity gradients seen in the secondary velocity vectors near the body in the region where $y < 75$ mm. Another positive vorticity region is seen with its core centered around $z = -70$ mm and $y = 10$ mm. This vorticity is believed to be identified with the primary horseshoe vortex. The peak vorticity value has decreased significantly from 235/sec for fillet #2 to 75/sec for fillet #3, indicating that the strength of the primary horseshoe vortex at this location is much weaker with fillet #3. Compared to the peak vorticity value for the 1.5:1 elliptical nose body, the reduction is even more significant, from 490/sec to 75/sec. These results are consistent with the floor surface flow visualizations, where it was observed that the high shear stress line was not clearly seen at this location for fillet #3. A strong positive vorticity region is seen near the floor in the junction region. This vorticity is believed to be induced by large velocity gradients between the first row of velocity vectors and zero velocity at the floor. As mentioned in Section 4.3.1, whether vorticity values at the floor are included or not makes important differences in the distribution near the floor for this case.

Figure 4.97 shows the x-component vorticity distribution without the floor values plotted. The vorticity field used to generate Fig. 4.97 is identical to that used to generate Fig. 4.96. The only difference is that the vorticity values at the floor were not fed into the Surface II software for Fig. 4.97. Since the effects of this omission of the floor values are confined to the immediate neighborhood of the floor, while the vorticity distribution is

changed markedly very near the floor, the essential features of Figs. 4.96 and 4.97 are very similar everywhere else. The omission of the floor values provides details in the corner of the junction at the three planes, 43, 63, and 83 percent chord planes, for fillet #3.[1] There appears to be a very small vorticity region in the extreme corner of the junction, which was not seen in Fig. 4.96 due to the dominance of the strong positive vorticity near the floor. This weak vorticity is believed to be identified with a real vortex since its effect is seen in the U velocity and the total pressure distributions. This vortex is co-rotating with respect to the primary horseshoe vortex, therefore this vortex does not appear to be the corner vortex originating at the body leading edge. This vortex appears to be formed by a corner separation which occurred a little upstream of the 43 percent chord position.

The U velocity distribution in Fig. 4.98 shows distribution similar to that of fillet #2, except in the region near the body side and the corner of the junction. Contours near the body side show the effect of the vorticity seen along the body side in the x-component vorticity distribution. In the corner of the junction, the effect of the corner separation vortex implied in the x-component vorticity distribution is seen. The total pressure distribution and the static pressure distribution are shown in Fig. 4.99 and Fig. 4.100. The total pressure distribution also shows a small effect due to the corner separation vortex in the corner of the junction.

Compared with the flow field of the 1.5:1 elliptical nose body, fillet #3 appears to be very effective in reducing the strength and the size of the primary horseshoe vortex. It appears that fillet #3 reduced the strength of the primary horseshoe vortex more effectively than fillet #2.

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[1] The x-component vorticity distributions were plotted with and without these floor values at all measurement planes for all bodies investigated. Except for these three planes, none showed any significantly different details in the corner.

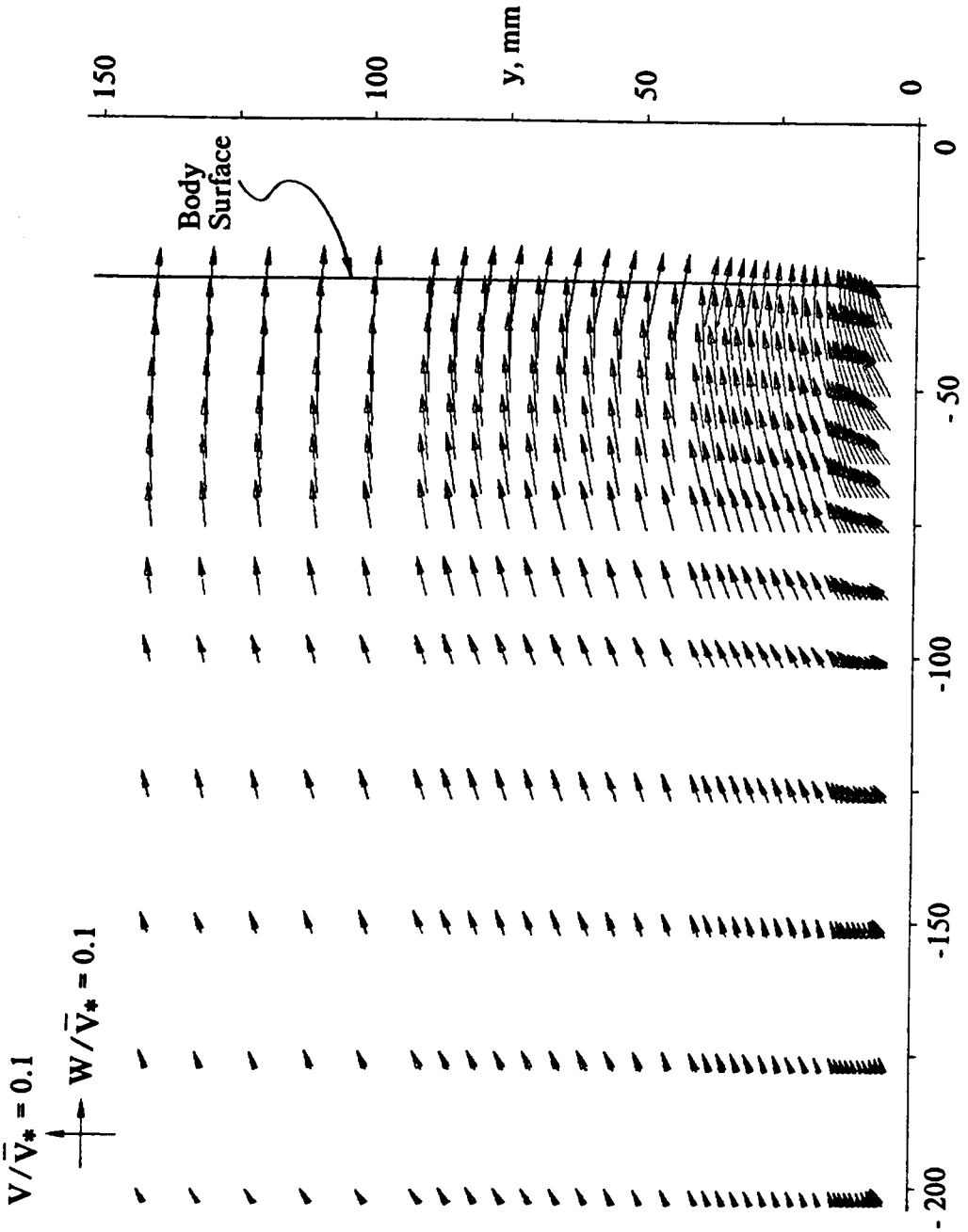


Fig. 4.95 Secondary Velocity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

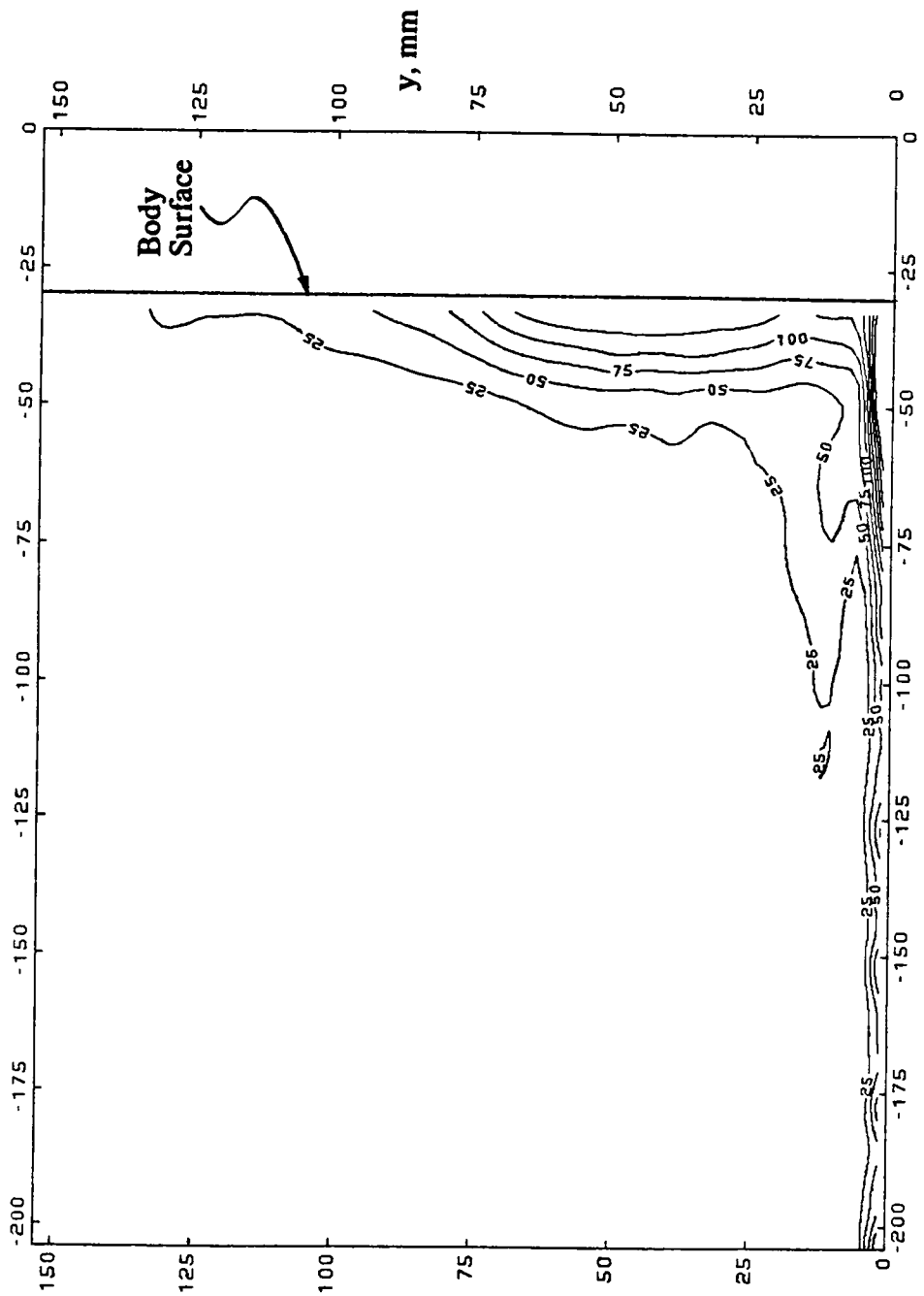


Fig. 4.96 x-Component Vorticity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

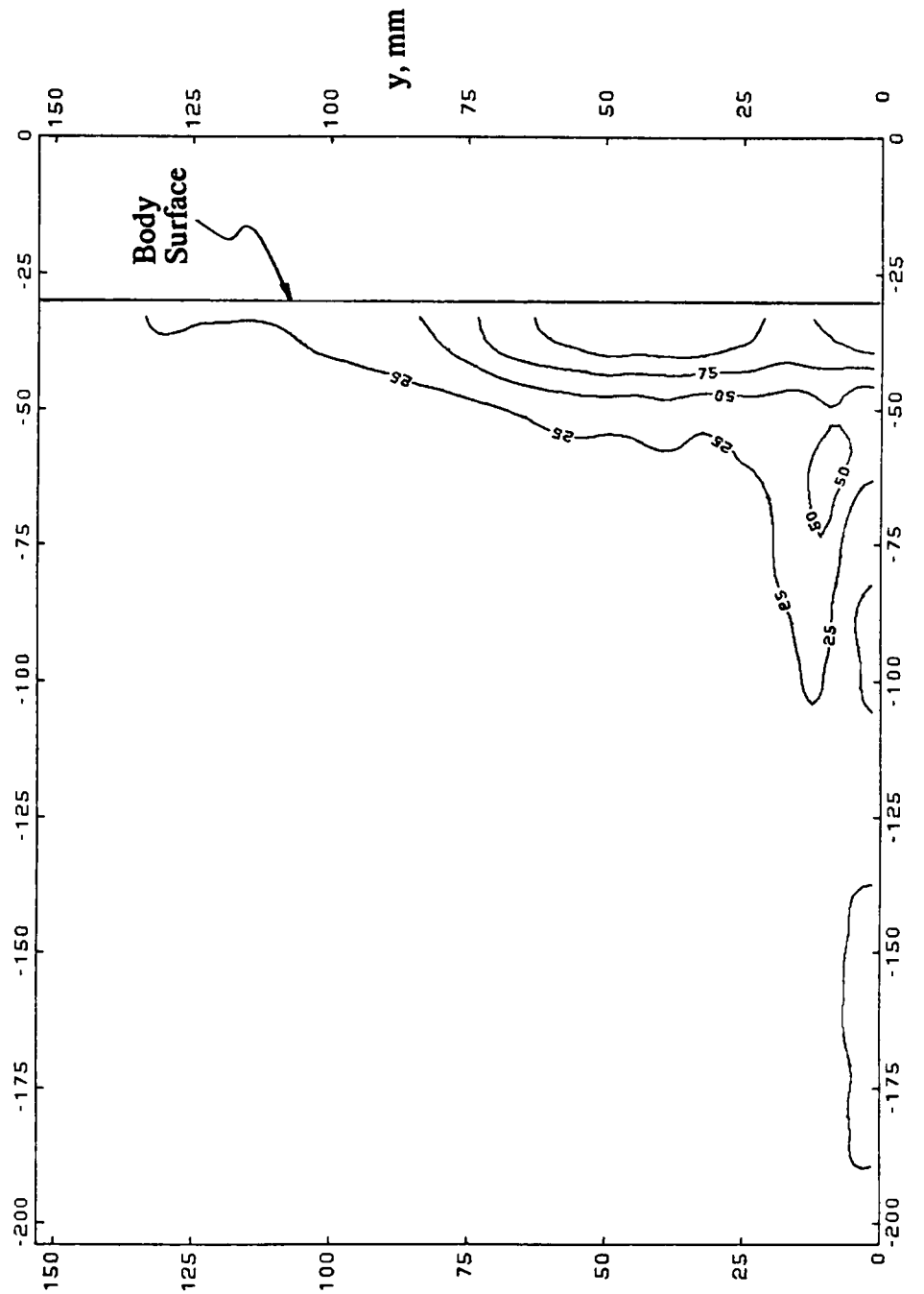


Fig. 4.97 x-Component Vorticity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 (without Floor Vorticity Values)

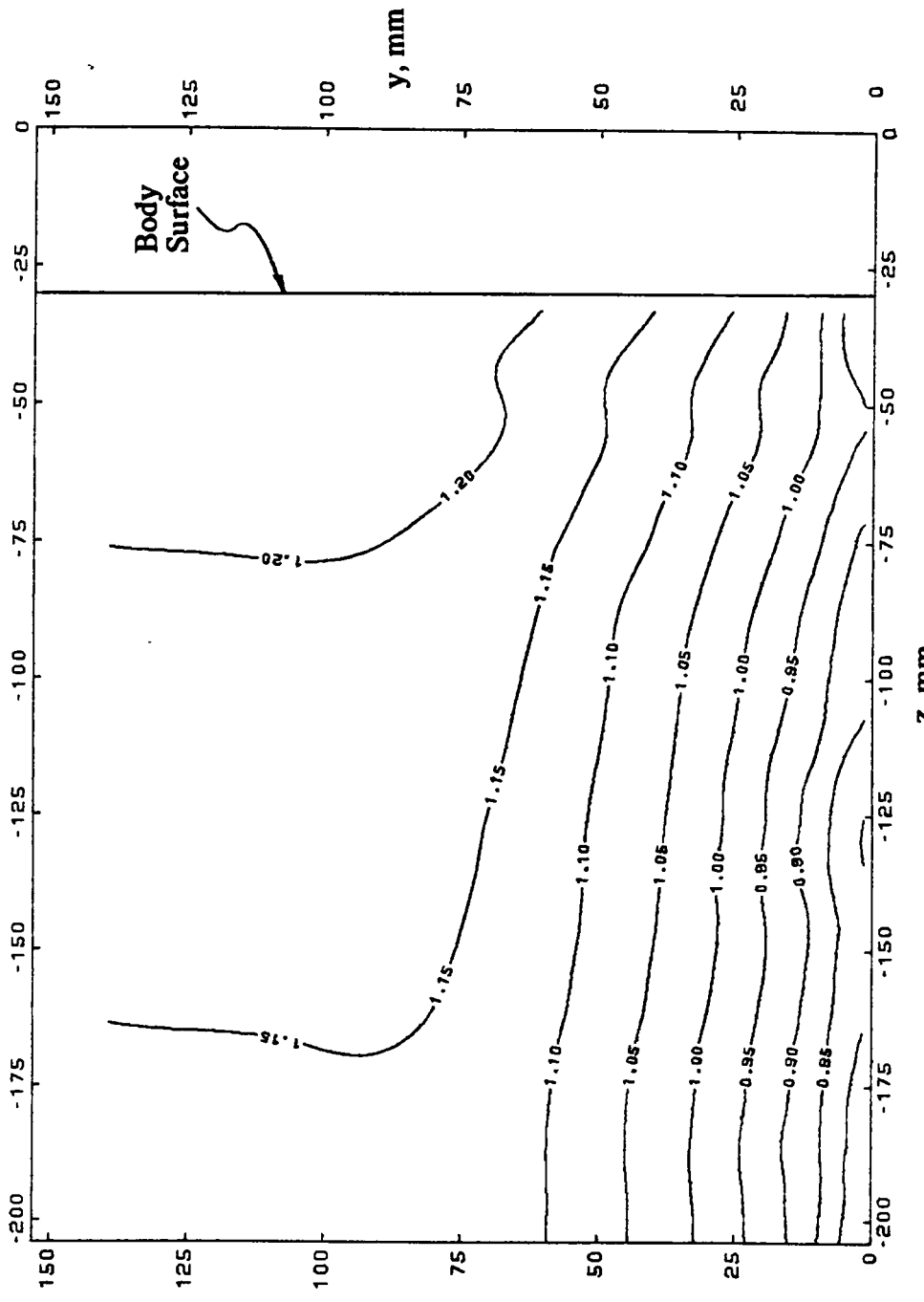


Fig. 4.98 U velocity Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

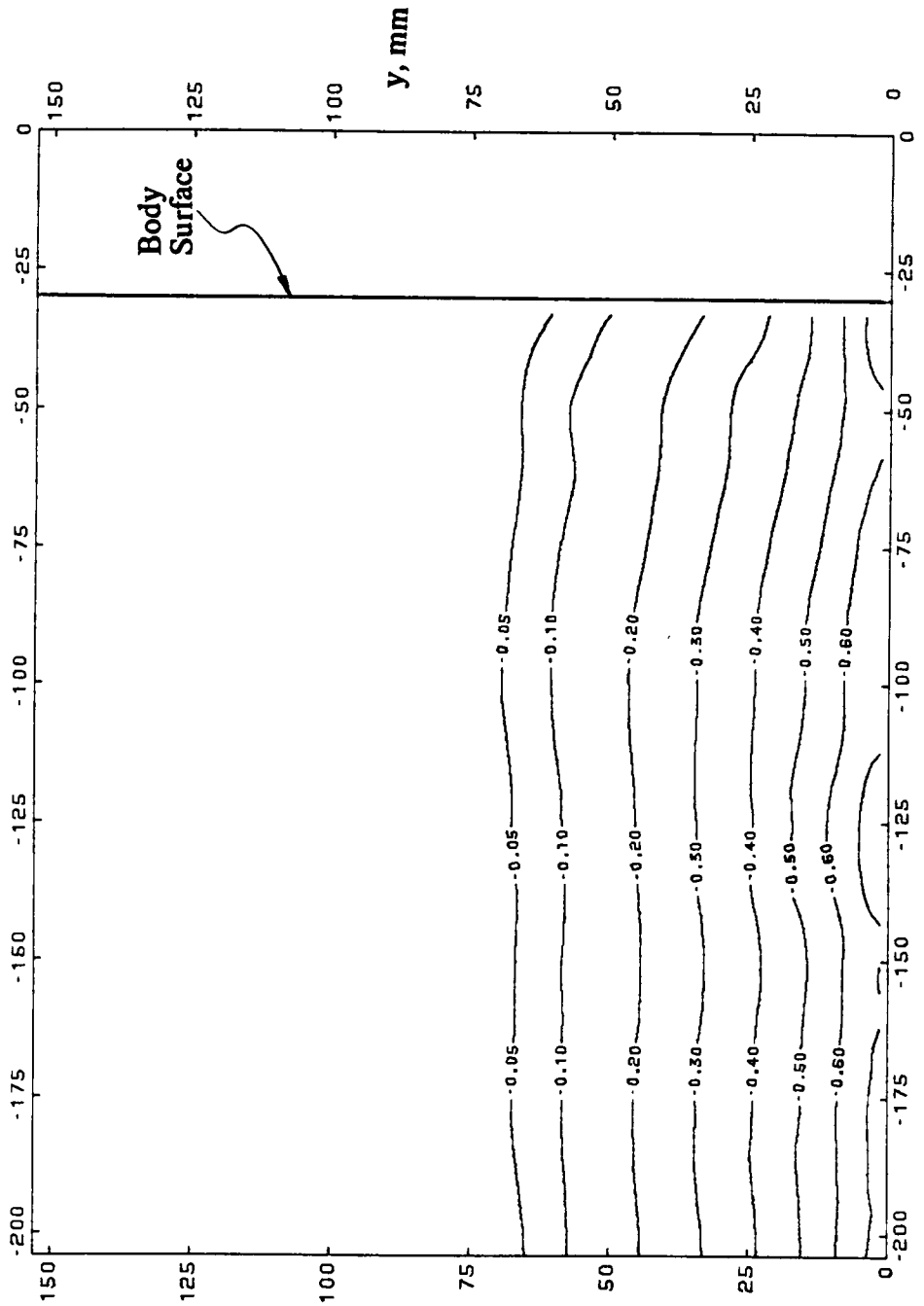


Fig. 4.99 Total Pressure Coefficient Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

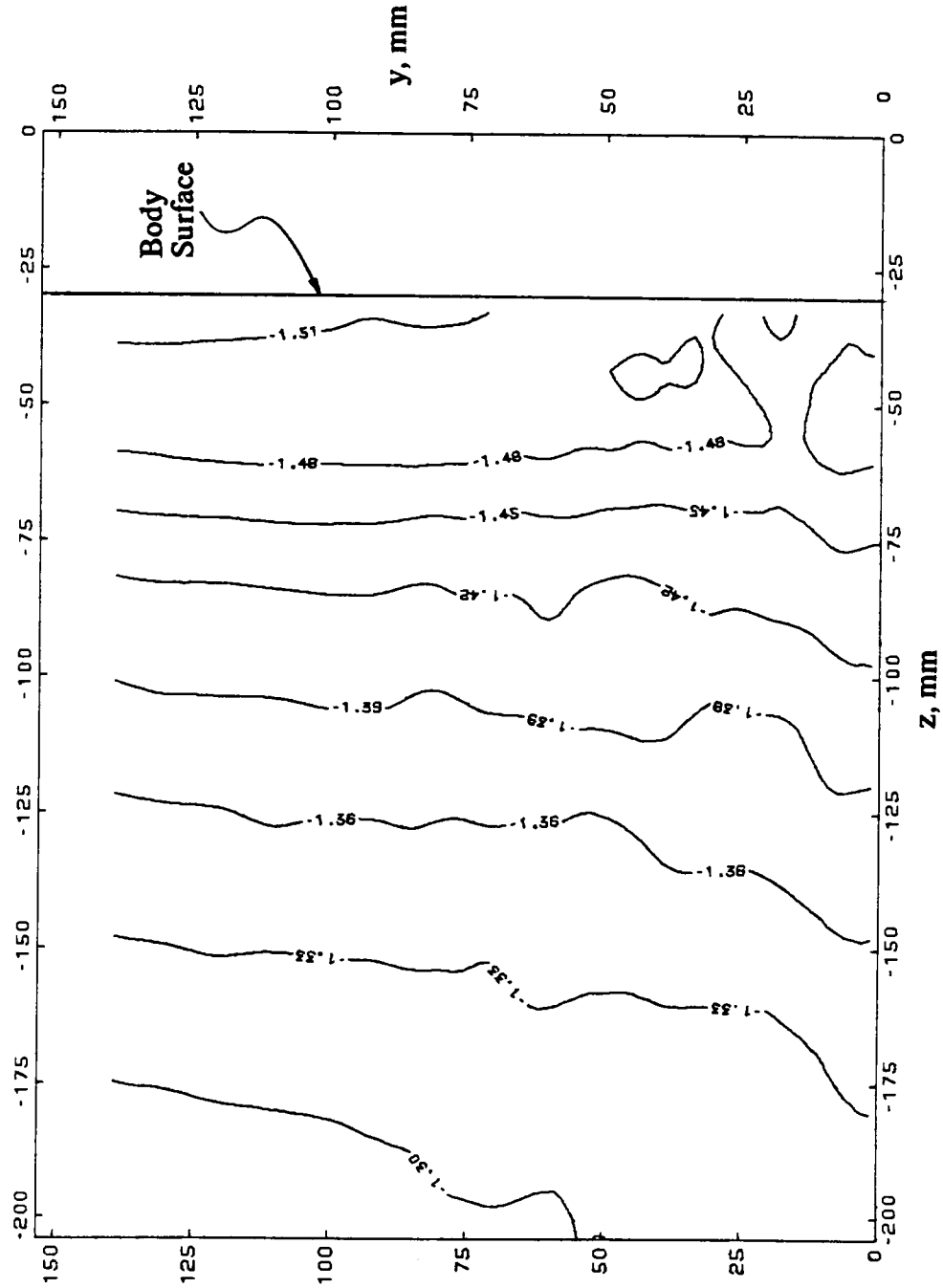


Fig. 4.100 Static Pressure Coefficient Distribution at 43 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

4.5.3.2 63 and 83 Percent Chord Planes

These two planes were surveyed to investigate the development of the corner separation vortex observed at the 43 percent chord position. It was observed that the "V" shaped line sprang from the body approximately 60 mm upstream of the trailing edge in the floor surface flow visualization. The 63 percent chord location corresponds to 110 mm upstream of the trailing edge and the 83 percent chord location corresponds to 50 mm upstream of the trailing edge.

The graphical results in the plane at 63 percent chord are shown in Figs. 4.101 through 4.106, and the graphical results of the plane at 83 percent chord are shown in Figs. 4.107 through 4.112. The secondary velocity vector distributions at both planes (see Fig. 4.101 and Fig. 4.107) show very similar features. No clear vortex structure is seen at either planes.

Figure 4.102 shows the x-component vorticity distribution with the floor values at the 63 percent chord plane. The positive vorticity region along the body side has decreased in its cross sectional area and strength compared to that at the 43 percent chord plane. The positive vorticity identified with the primary horseshoe vortex has weakened further. A strong positive vorticity region across and near the floor is again caused by velocity gradients between the velocity vectors at the first row and zero velocity at the floor. As for the 43 percent chord plane, Fig. 4.103 shows the x-component vorticity distribution without the floor values. A corner vortex is suggested, which was not revealed in Fig. 4.102 due to the strong positive vorticity across the floor. The corner vorticity region has increased in its cross sectional area and strength compared to that at the 43 percent chord position.

The U velocity distribution and the total pressure distribution at the 63 percent chord plane in Fig. 4.104 and Fig. 4.105 show boundary layer like distributions with very small effects of vorticity. The static pressure distribution in Fig. 4.106 shows the nearly constant static pressure.

The x-component vorticity distribution at the 83 percent chord plane with the floor value is seen in Fig. 4.108. The positive vorticity along the body side and the primary positive vorticity appear to weaken further. The strong positive vorticity region is again seen near and across the floor. A corner vortex is suggested in Fig. 4.109 which shows the x-component vorticity distribution without the floor values. The corner vorticity region has increased more in cross sectional area and strength.

The U velocity distribution and the total pressure distribution in Fig. 4.110 and Fig. 4.111 at the 83 percent chord plane show the effects of the corner separation vortex in the corner of the junction. The static pressure distribution in Fig. 4.112 shows the nearly constant static pressure along the y direction and the nearly constant static pressure across the region away from the body.

It was observed that the corner separation vortex exist at both the 63 percent and the 83 percent chord positions. It was also noted that the corner separation vortex grows as the flow proceeds downstream. A larger region of the corner vorticity in the x-component vorticity distribution is consistent with the floor surface flow visualization, which showed the "V" shaped line departed the body somewhere between the 63 and 83 percent chord position.

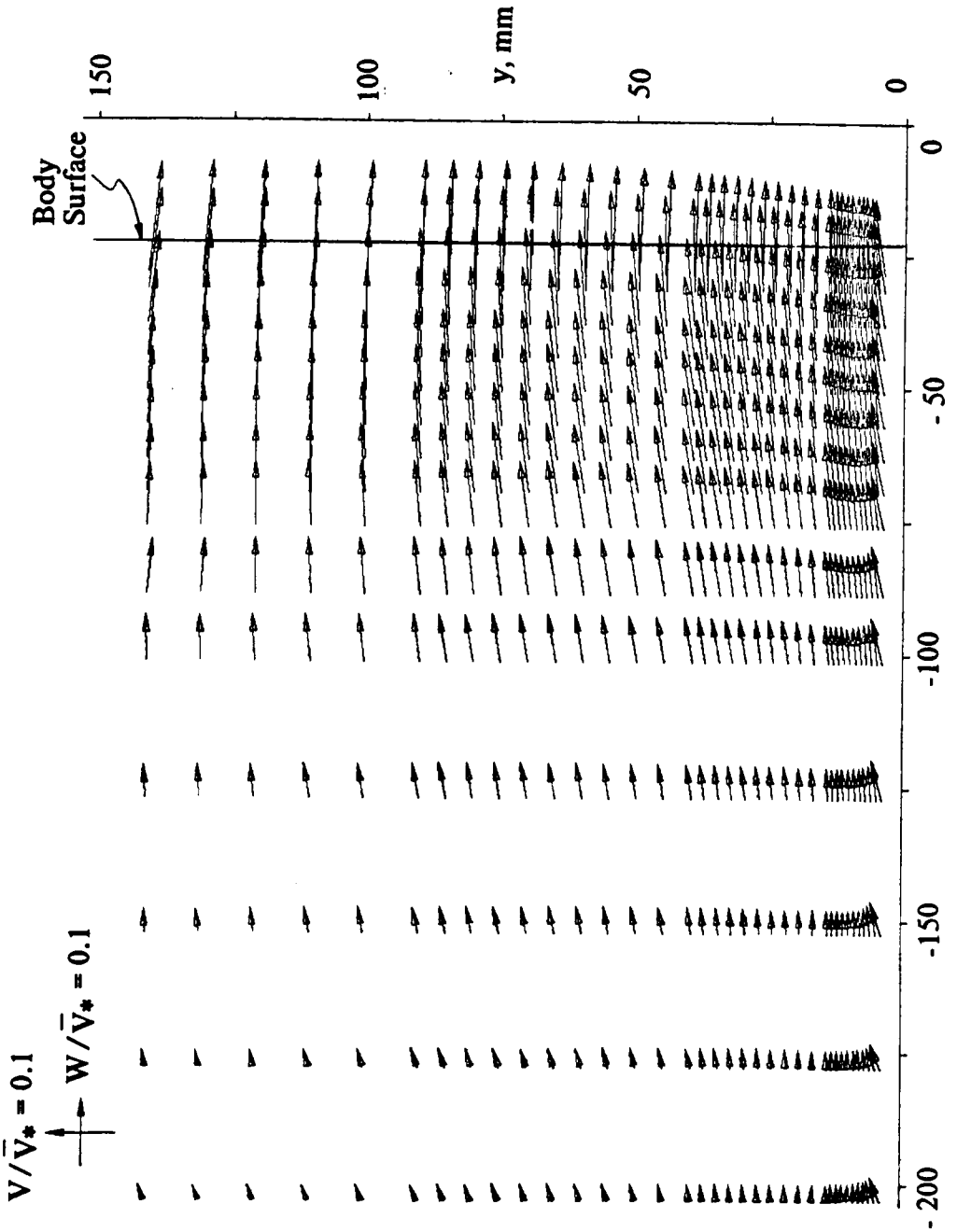


Fig. 4.101 Secondary Velocity Distribution at 63 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

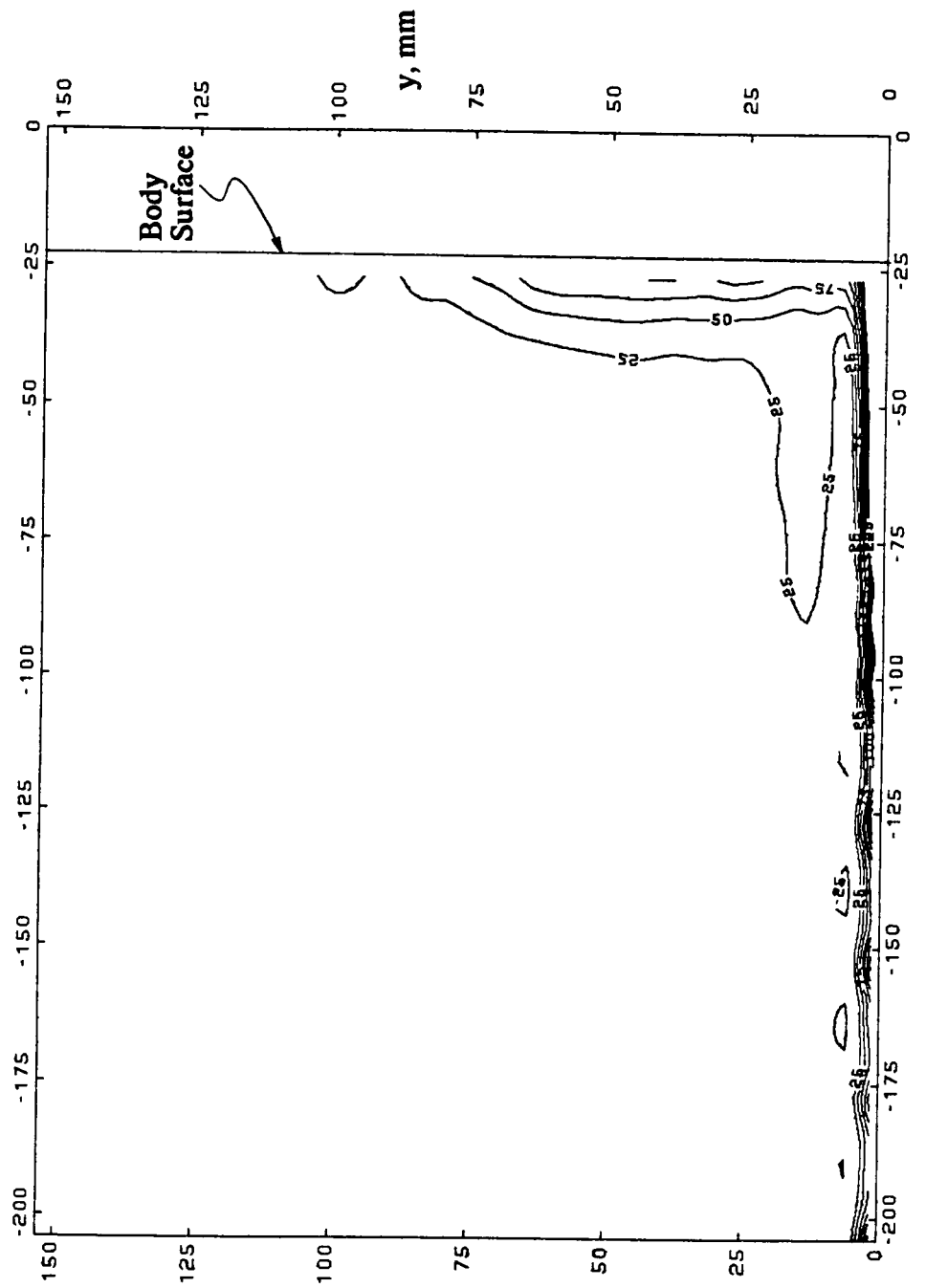


Fig. 4.102 x-Component Vorticity Distribution at 63 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

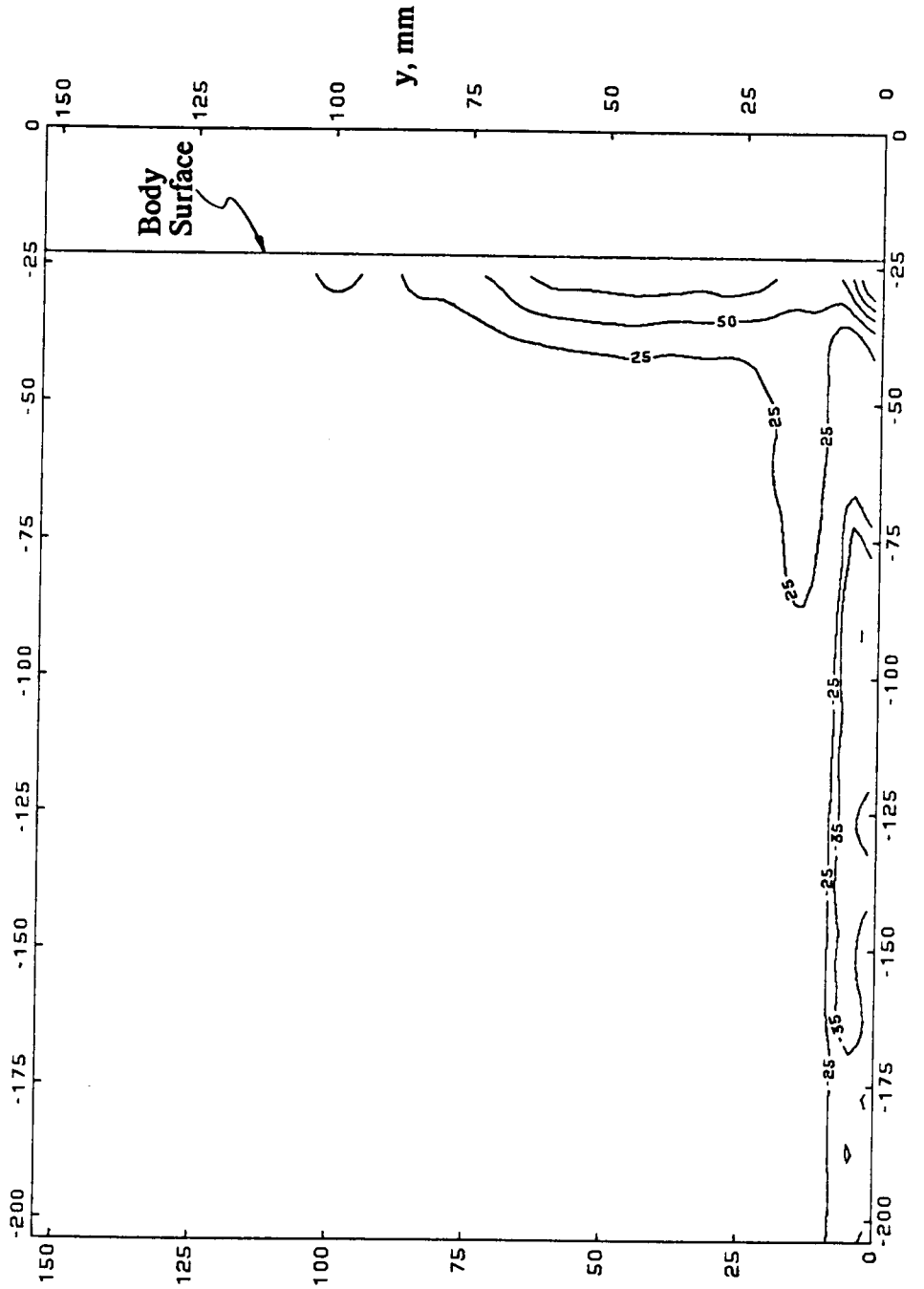


Fig. 4.103 x-Component Vorticity Distribution at 63 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 (without Floor Vorticity Values)

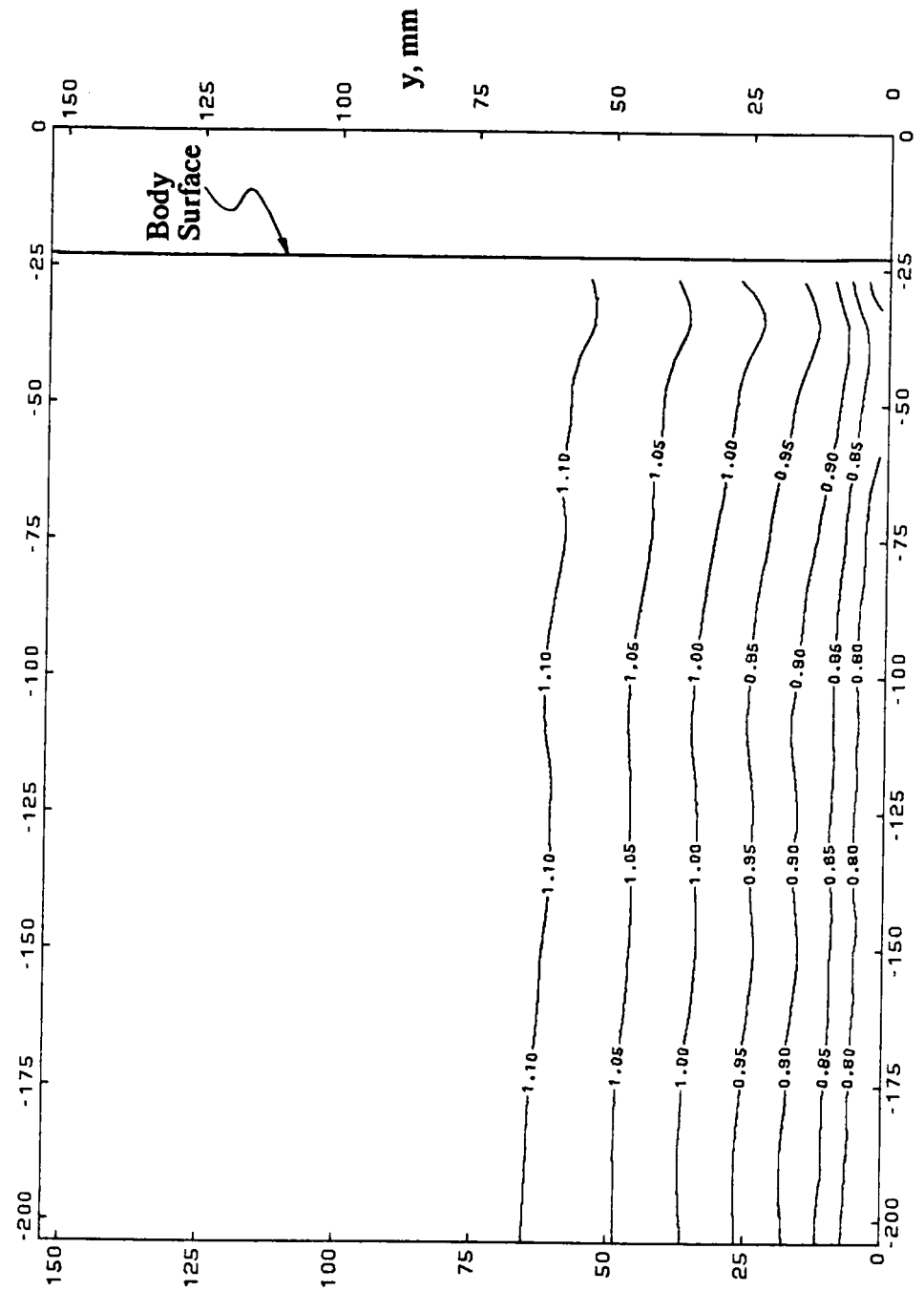


Fig. 4.104 U velocity Distribution at 63 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

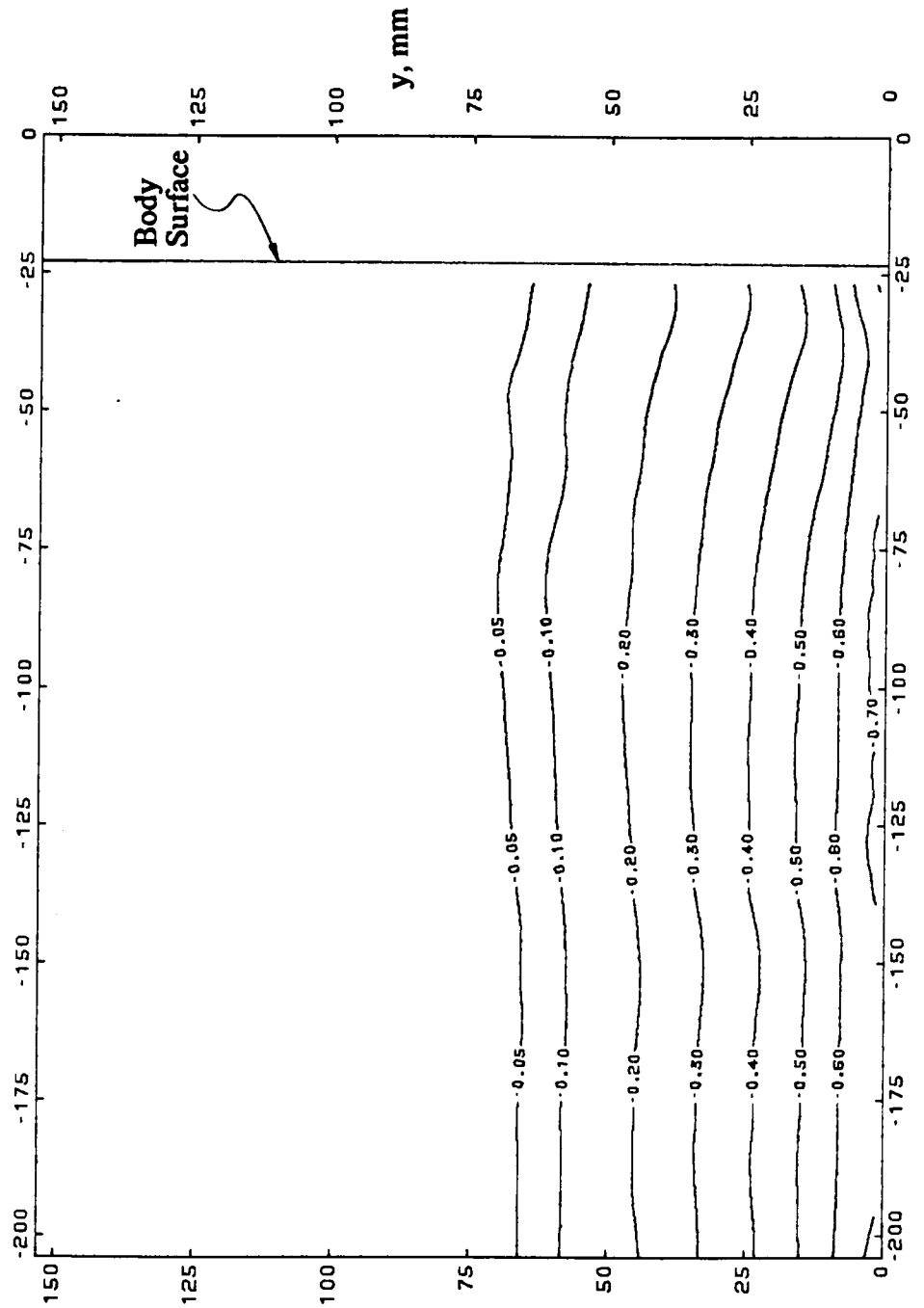


Fig. 4.105 Total Pressure Coefficient Distribution at 63 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

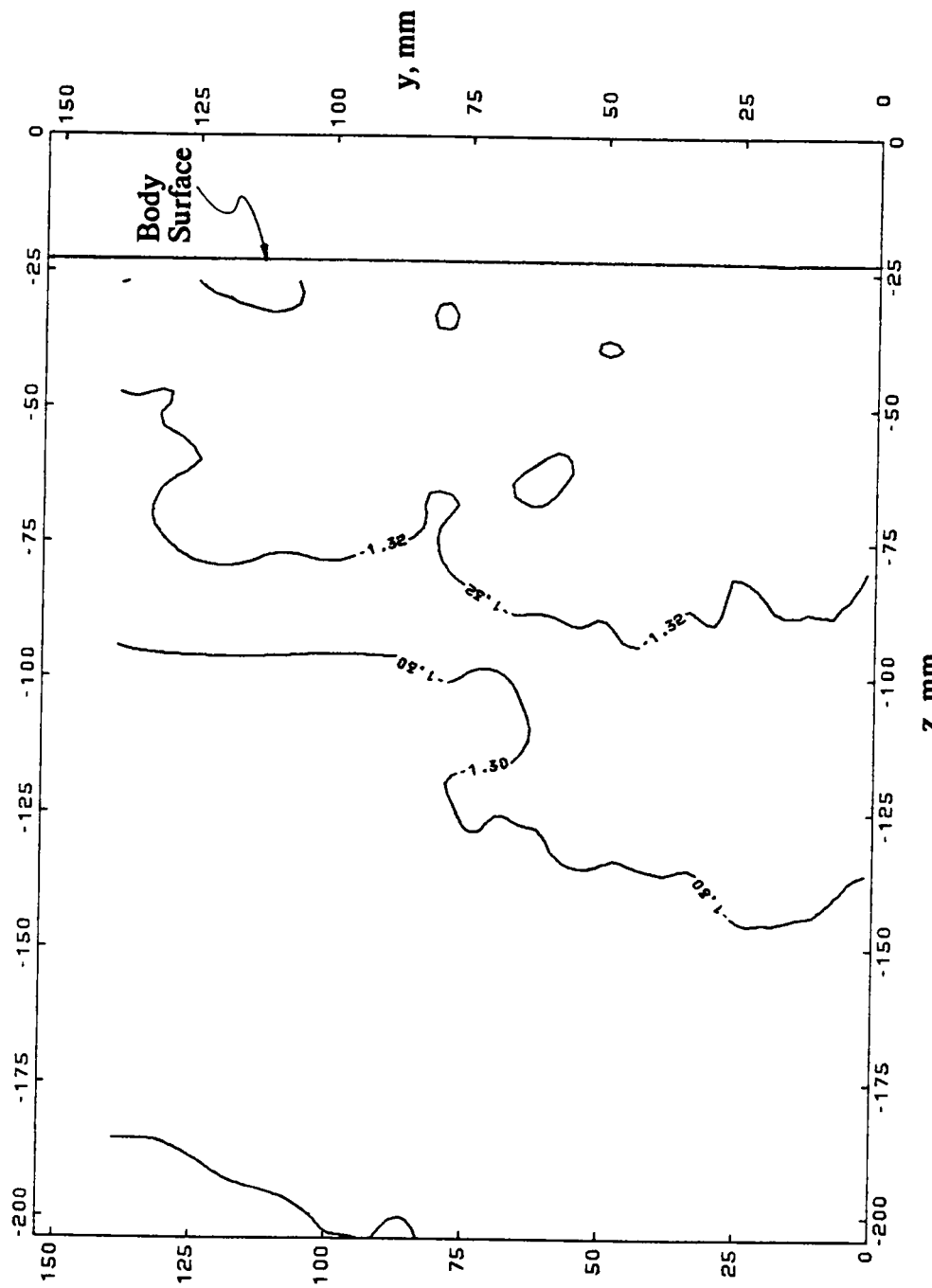


Fig. 4.106 Static Pressure Coefficient Distribution at 63 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

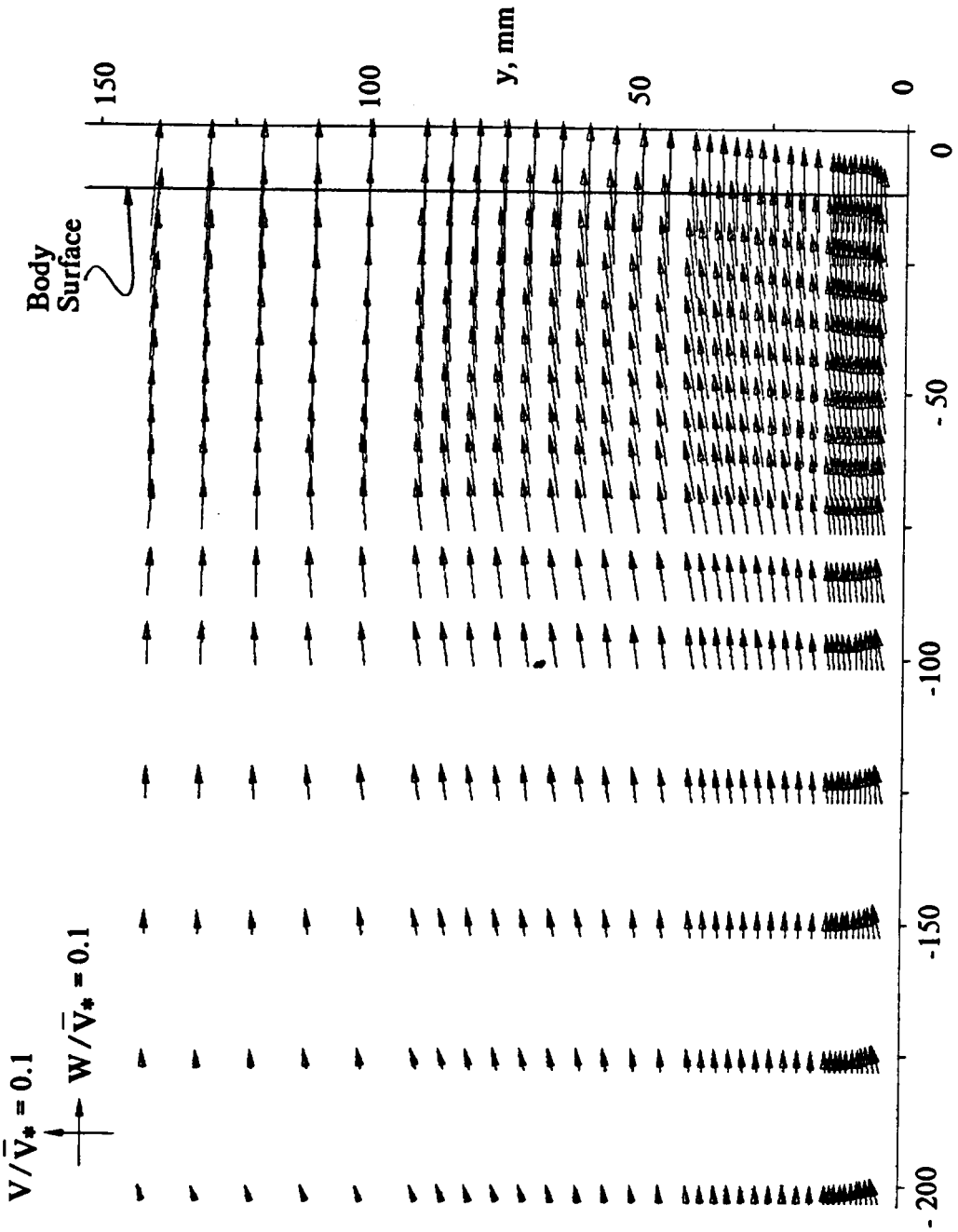


Fig. 4.107 Secondary Velocity Distribution at 83 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

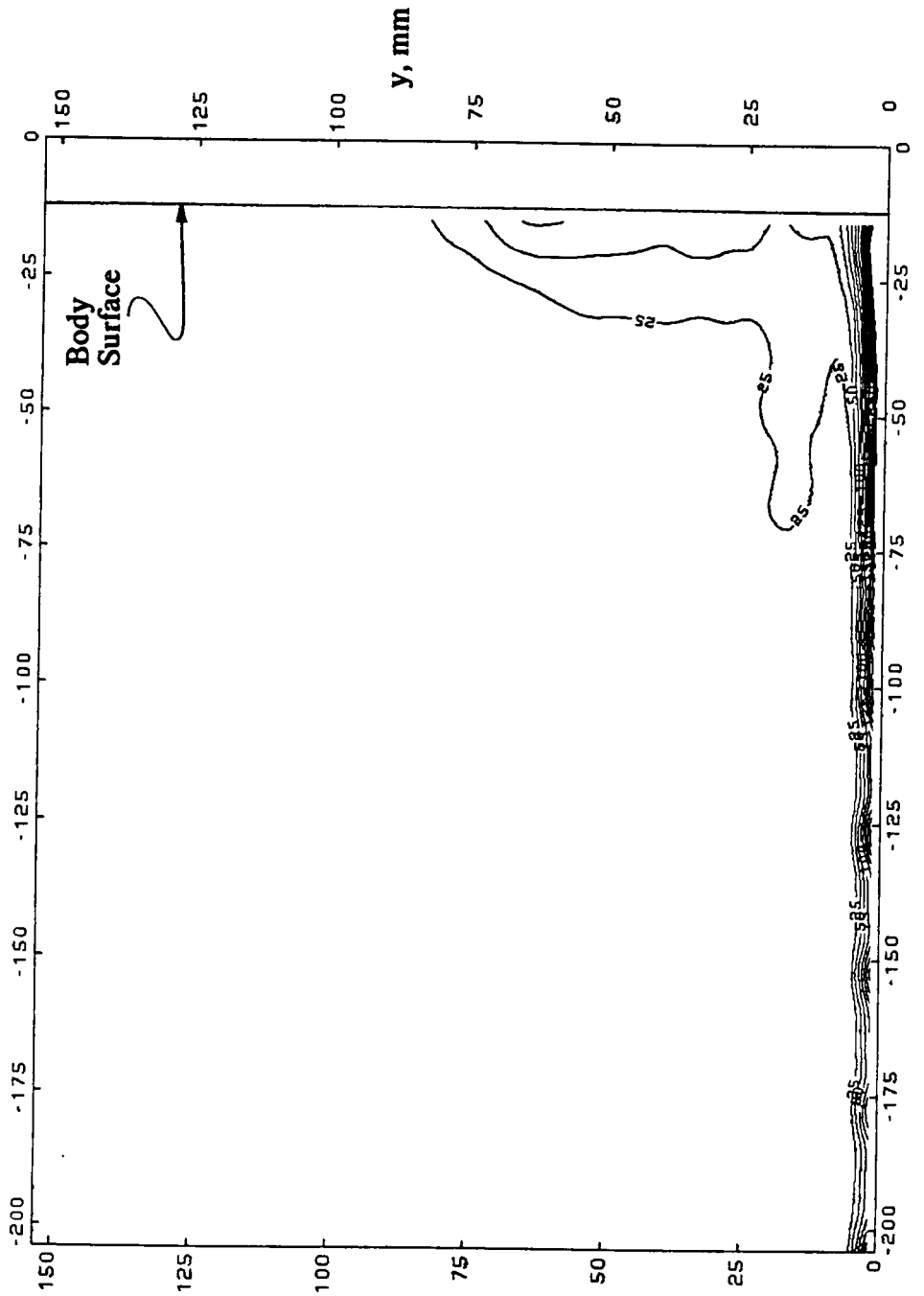


Fig. 4.108 x-Component Vorticity Distribution at 83 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

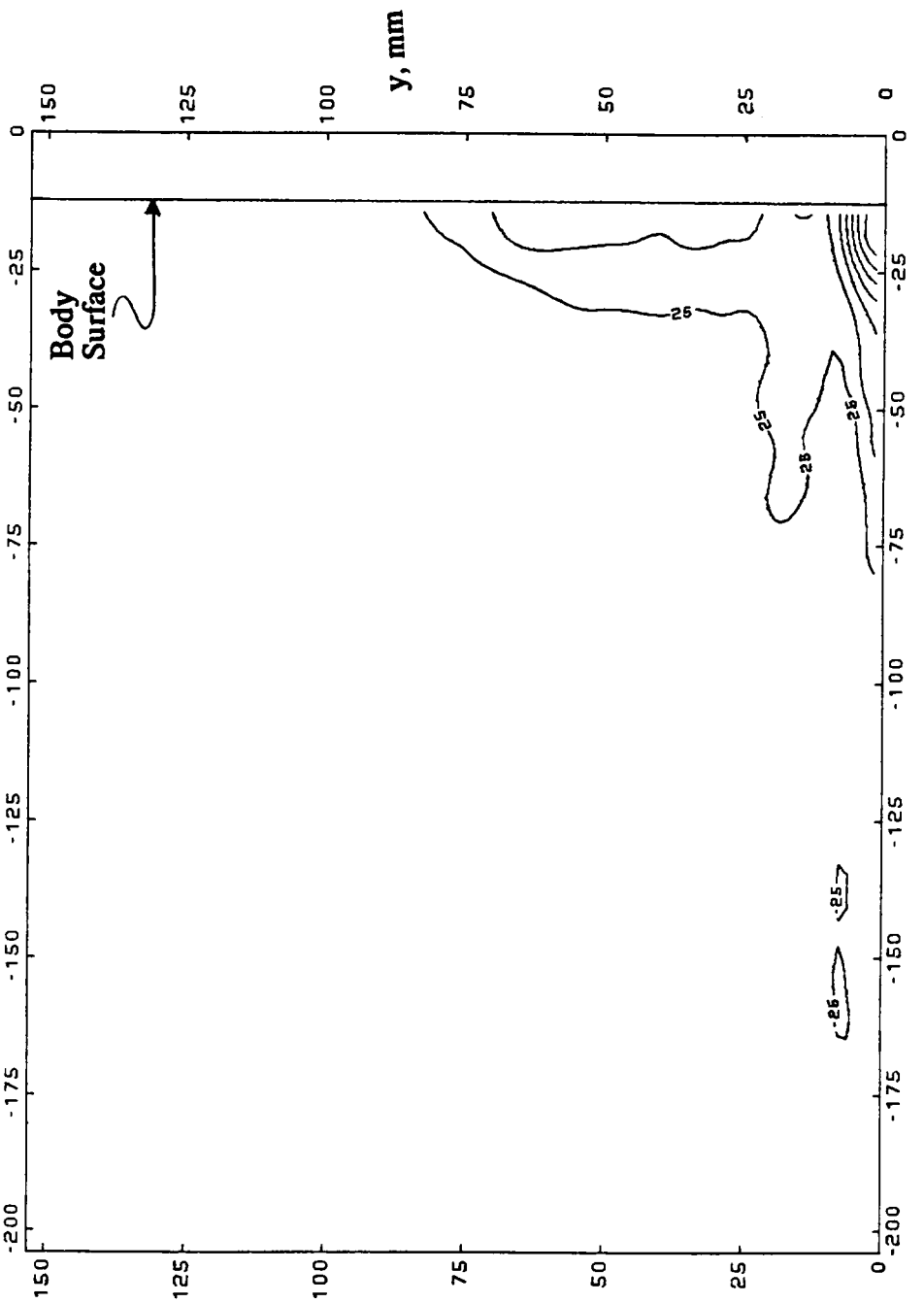


Fig. 4.109 x-Component Vorticity Distribution at 83 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 (without Floor Vorticity Values)

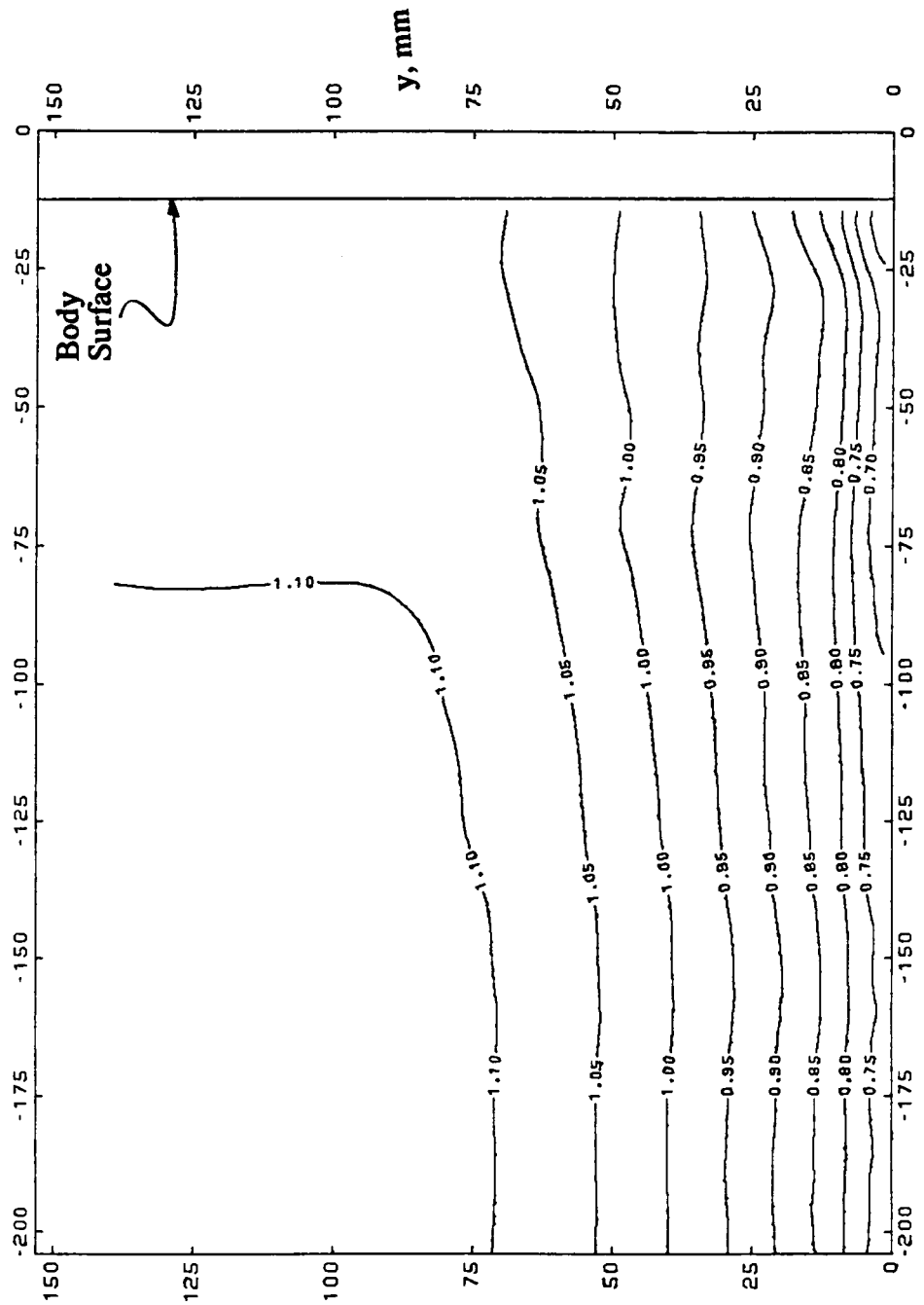


Fig. 4.110 U velocity Distribution at 83 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

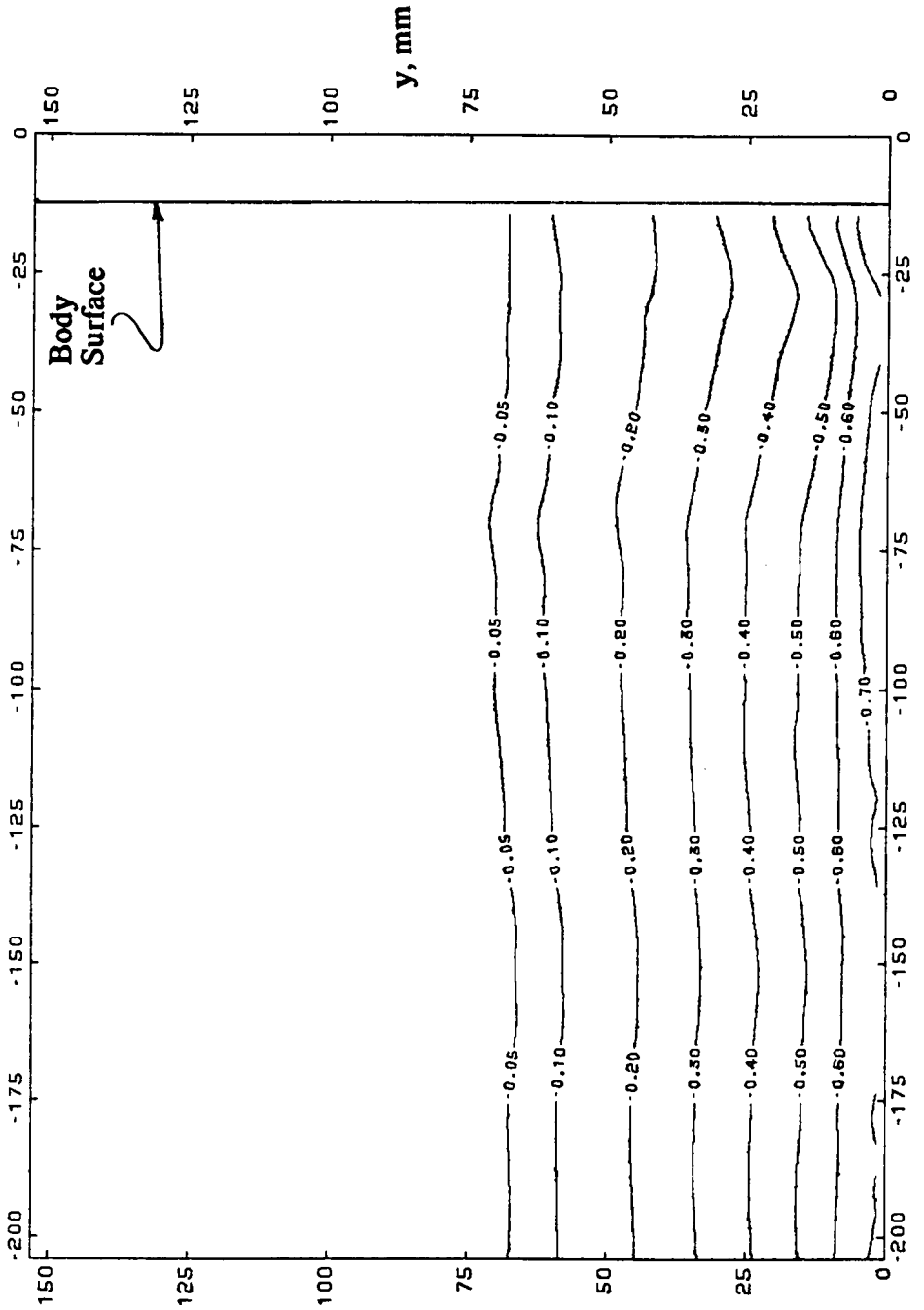


Fig. 4.111 Total Pressure Coefficient Distribution at 83 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

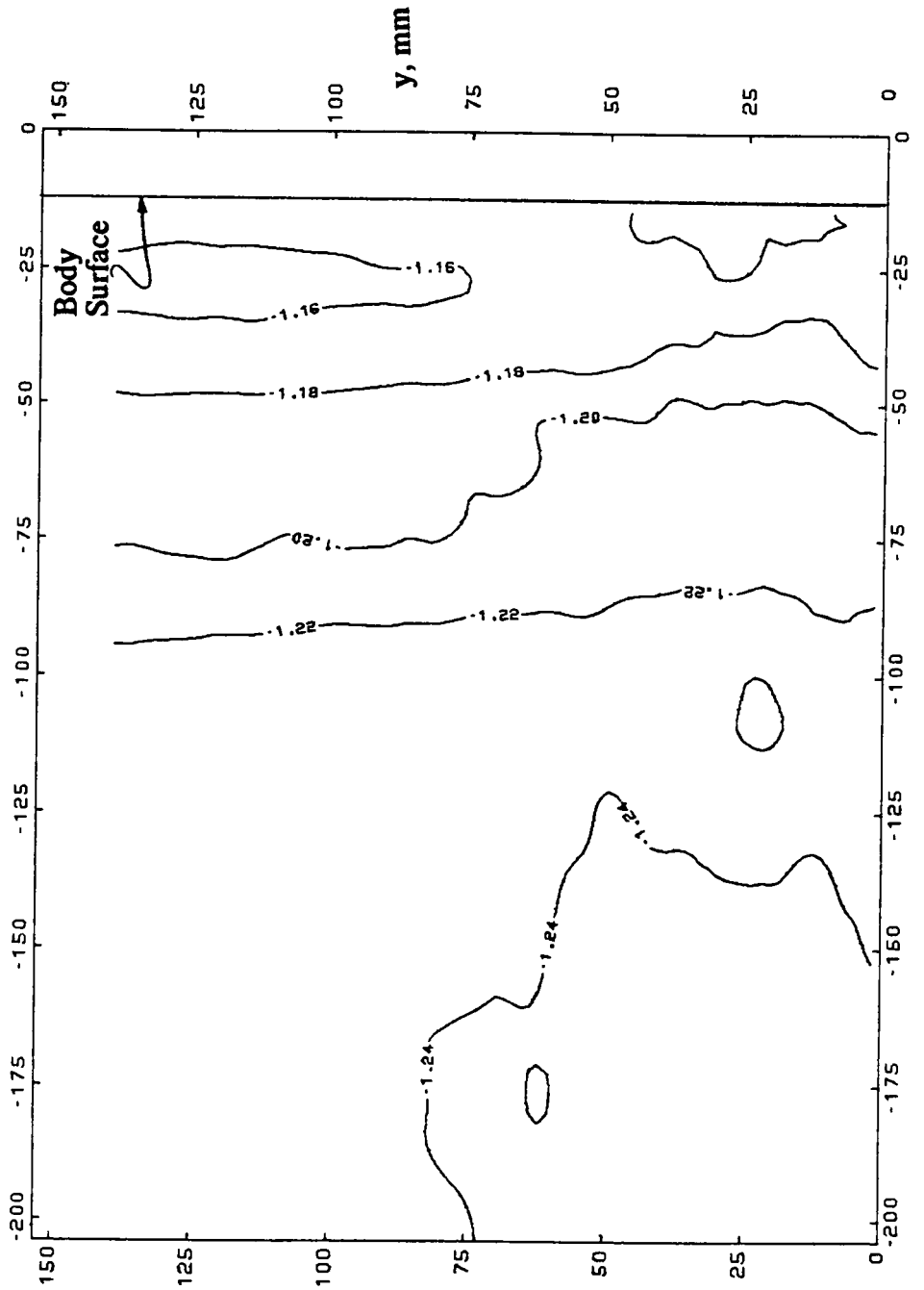


Fig. 4.112 Static Pressure Coefficient Distribution at 83 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

4.5.3.3 100 Percent Chord Plane

The effect of the fillet height on the effectiveness of the leading edge fillet was investigated by making a comparison with fillet #1. This fillet is geometrically similar to fillet #2, so the effect of the fillet size itself was also investigated.

The secondary velocity vector distribution is shown in Fig. 4.113. No apparent vortex structure is seen. Compared with the secondary velocity vector distribution for fillet #1, the magnitudes of W velocities near the floor and the body have grown, and smaller negative V velocities near the body in the junction region are seen. Except for these differences, the distribution away from the floor and the body are very similar to that for fillet #1.

Figure 4.114 shows the x-component vorticity distribution with floor values. The x-component vorticity distribution without the floor values was tried and it showed little difference in the corner details. The primary horseshoe vortex appears to have negligible effects on the vorticity field at this location, which is consistent with the secondary velocity distribution and the floor surface flow visualization. The corner vorticity region has grown larger. The peak value of this corner vorticity is something of the order of 330/sec, which is larger than for fillet #1 and fillet #2. The peak corner vorticity values for both fillet #1 and fillet #2 were observed to be about 230/sec. This larger peak vorticity can be attributed to an early development of the corner separation for fillet #3, as observed at the 43 percent chord plane. A positive vorticity region near and across the floor is induced by the velocity gradients between the velocity vectors at the first row and zero velocity at the floor.

The U velocity distribution is shown in Fig. 4.115. Small effects of the corner separation vortex are seen in the corner of the junction. The total pressure and the static

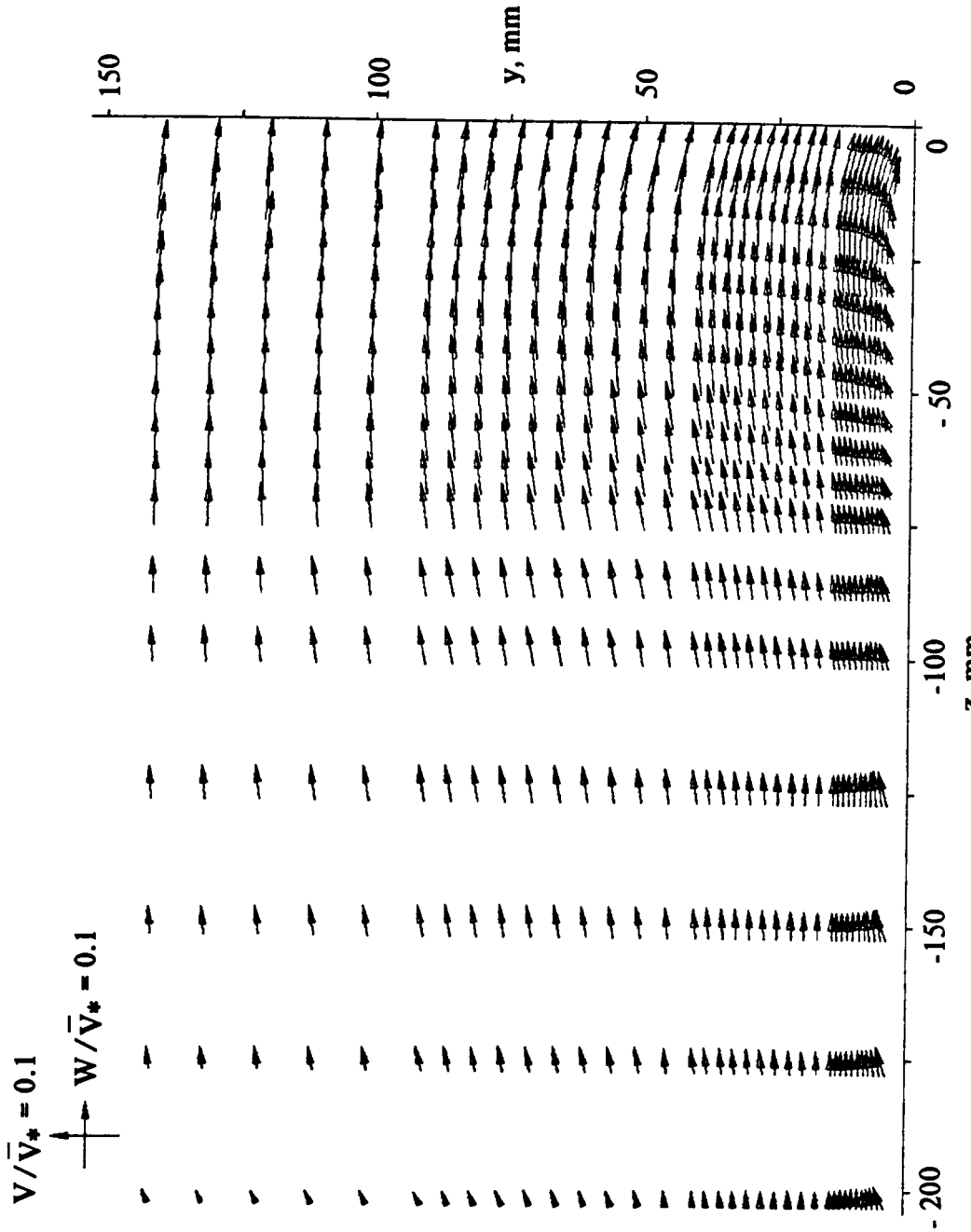


Fig. 4.113 Secondary Velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

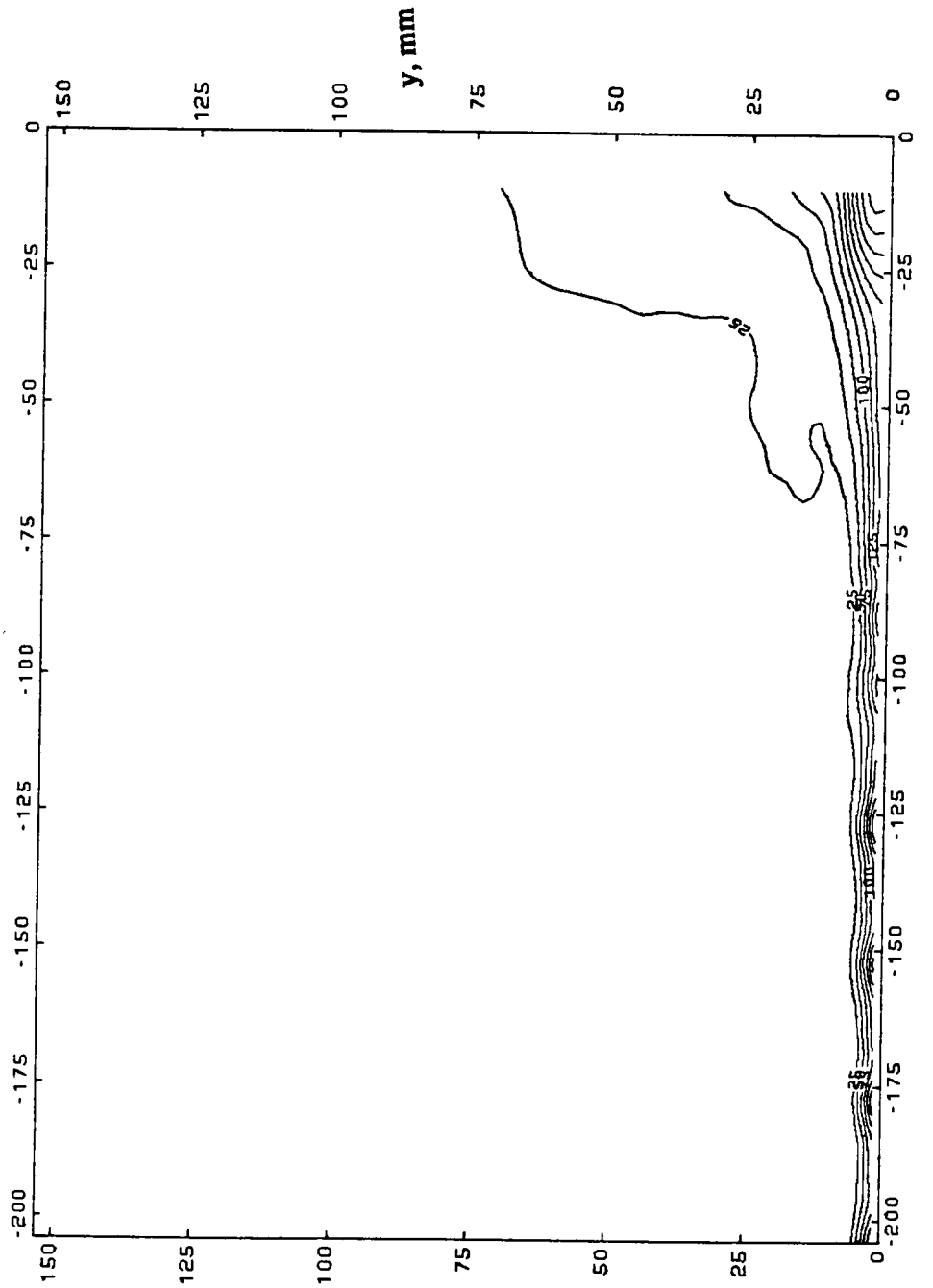


Fig. 4.114 x-Component Vorticity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

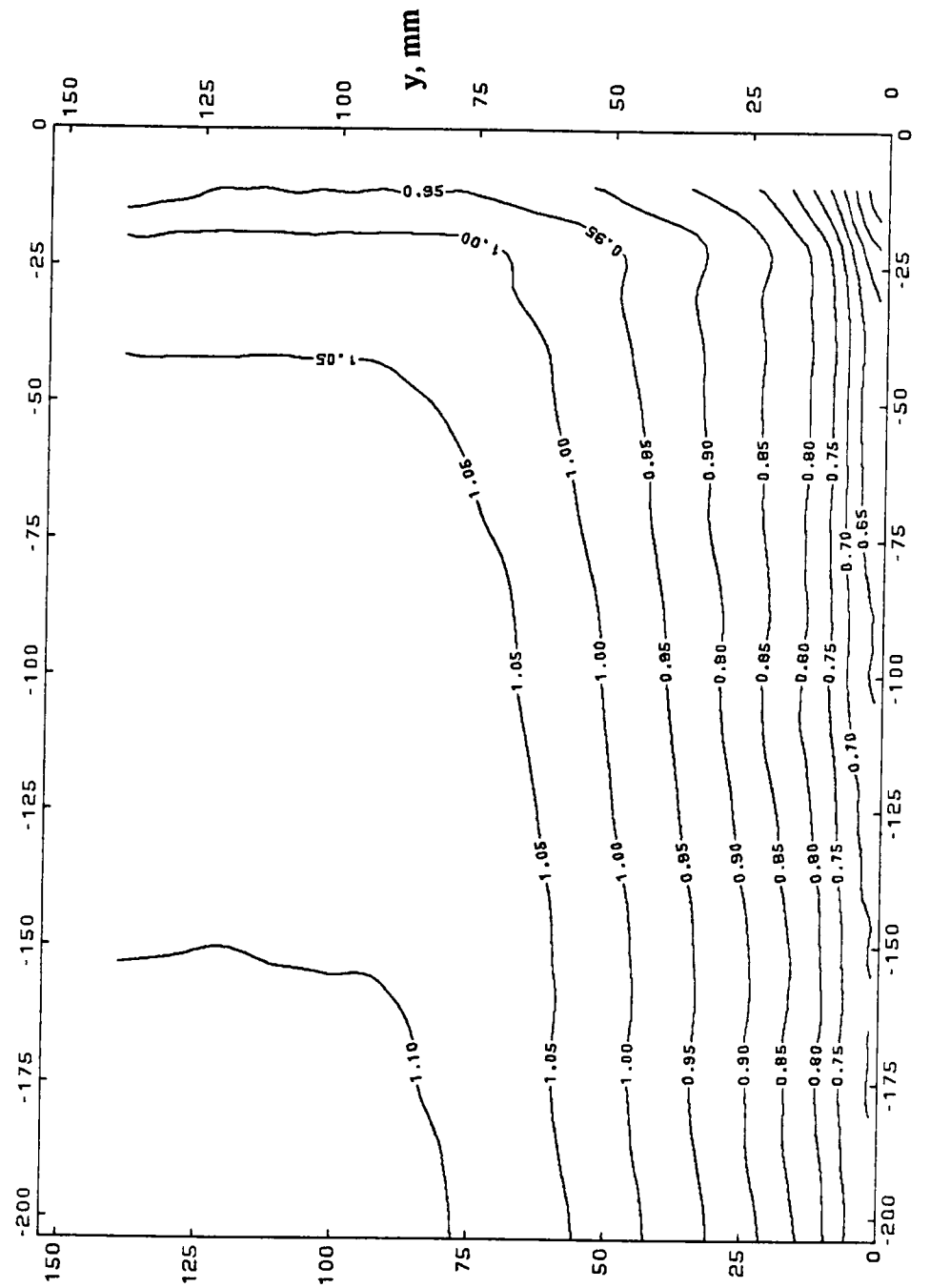


Fig. 4.115 U velocity Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

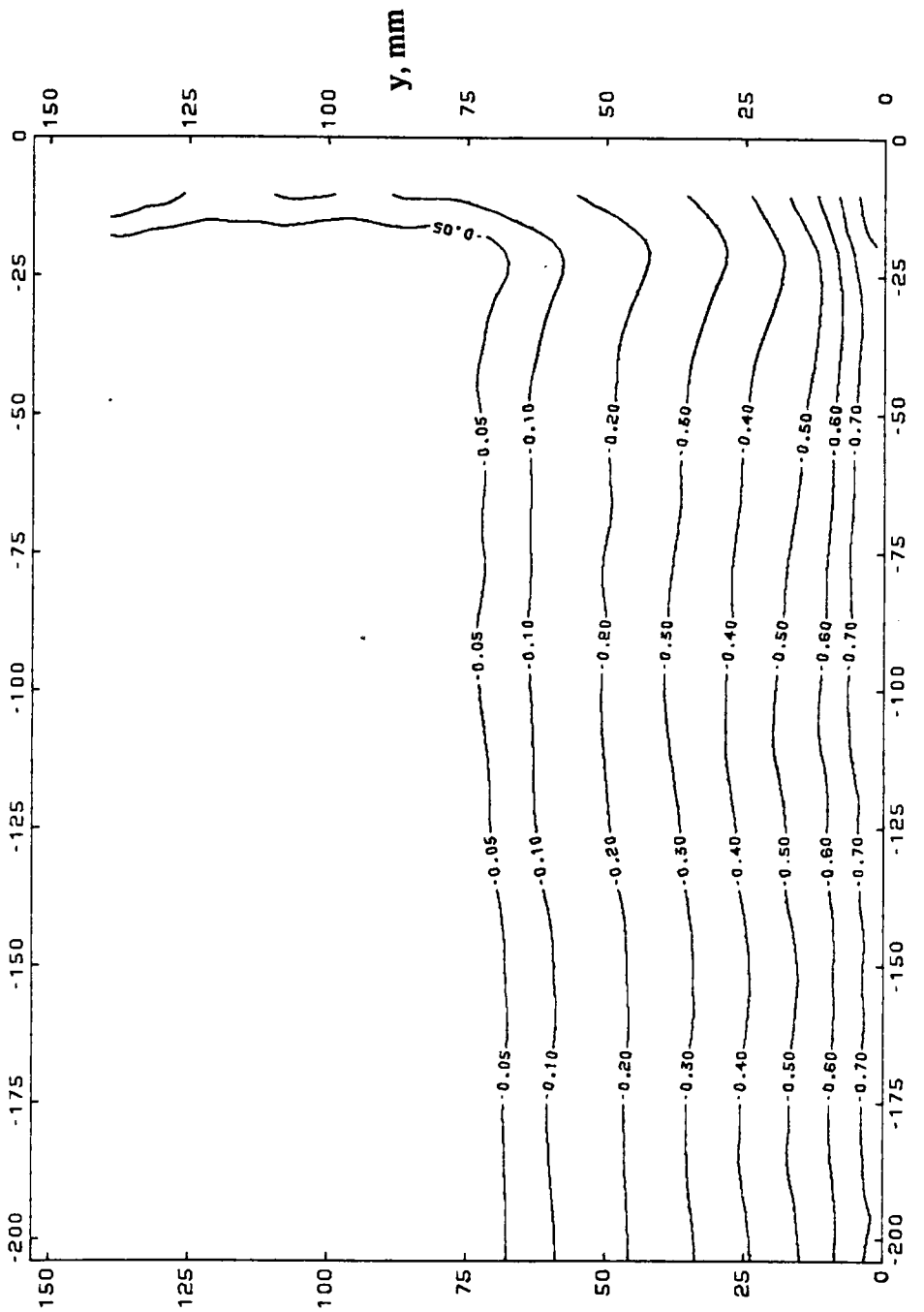


Fig. 4.116 Total Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

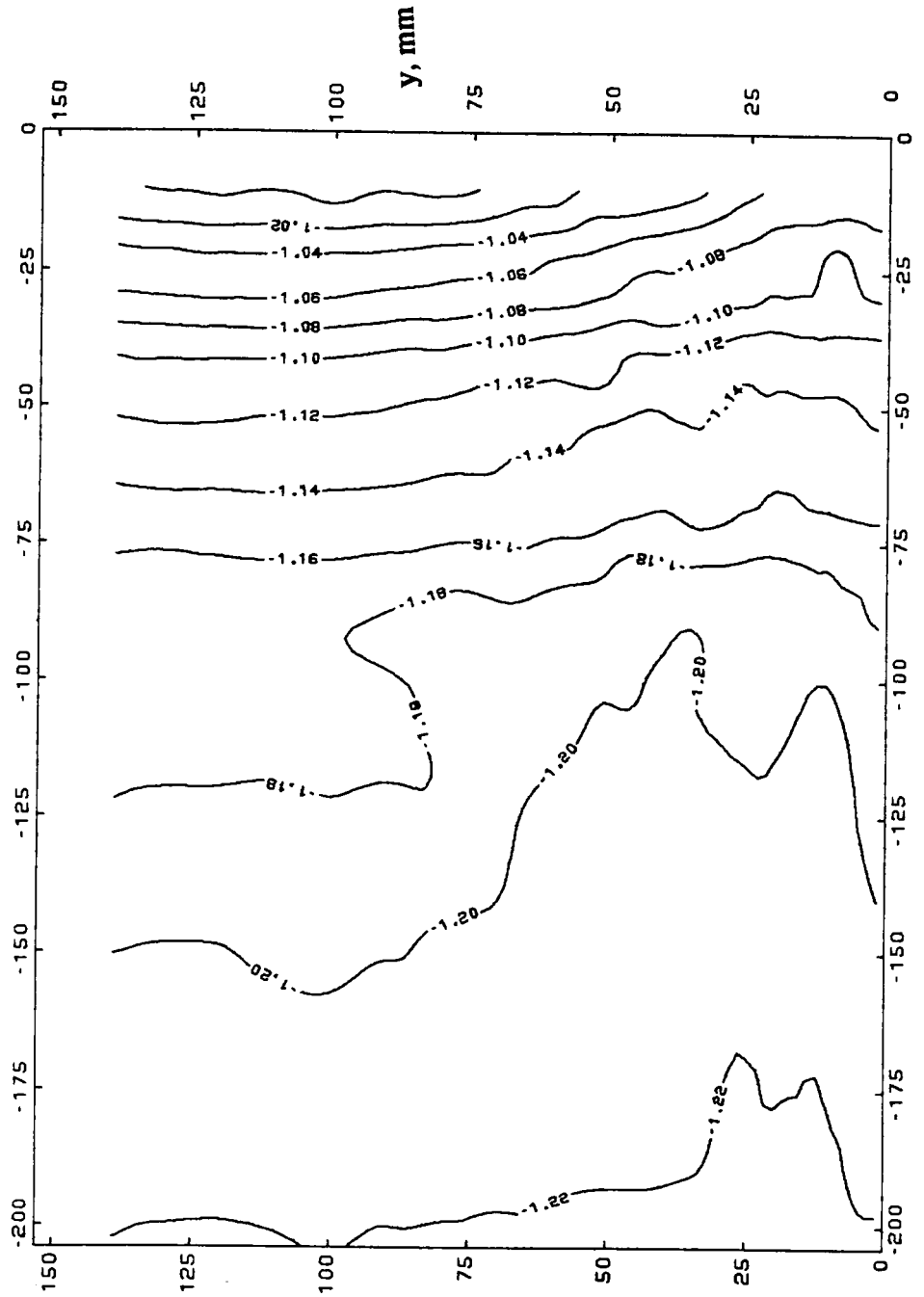


Fig. 4.117 Static Pressure Coefficient Distribution at 100 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

pressure distributions are shown in Fig. 4.116 and Fig. 4.117. The total pressure distribution also shows little effect of the corner vorticity in the corner of the junction, which is consistent with the x-component vorticity distribution and the U velocity distribution.

Comparing the results of fillet #2 and fillet #3 with fillet #1, it is apparent that the change of the fillet height had a greater effect on the vorticity field than did the base length change. This indicates that the height of the fillet is a more important factor than the base length in any fillet design, and a height of one boundary layer thickness is desired for an effective fillet.

4.5.3.4 125 Percent Chord Plane

Measurements were made at the 125 percent chord location to document the development of the corner separation vortex in the wake. The secondary velocity vector distribution is shown in Fig. 4.118. The distribution shows a vortex structure. The x-component vorticity distribution in Fig. 4.119 shows a positive vorticity region centered around z = -20 mm and y = 7 mm. This vortex appears to be the corner separation vortex seen at the 100 percent chord plane rather than the horseshoe vortex originating at the leading edge. The corner separation vortex center has moved away from the tunnel centerline and wall. The peak vorticity value is something of the order of 350/sec. A negative vorticity region seen underneath the positive vorticity region appears to be induced by the velocity gradients between the first row of vectors and the zero velocity at the floor. The sign is consistent with the outflow along the floor as seen in the secondary velocity distribution of Fig. 4.118. The U velocity distribution in Fig. 4.120 shows very small effects of any vortex. The total pressure and the static pressure distributions in this plane

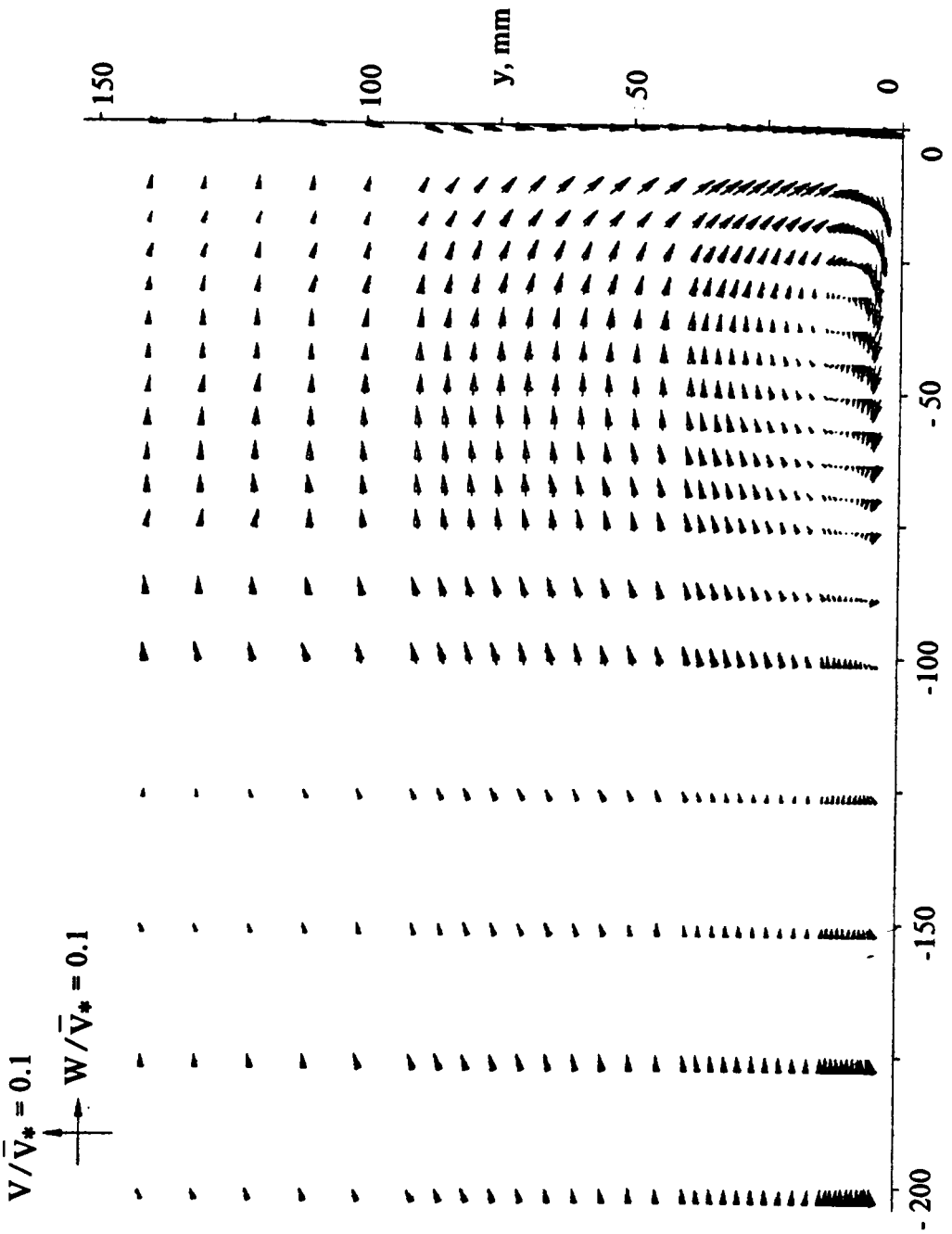


Fig. 4.118 Secondary Velocity Distribution at 125 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

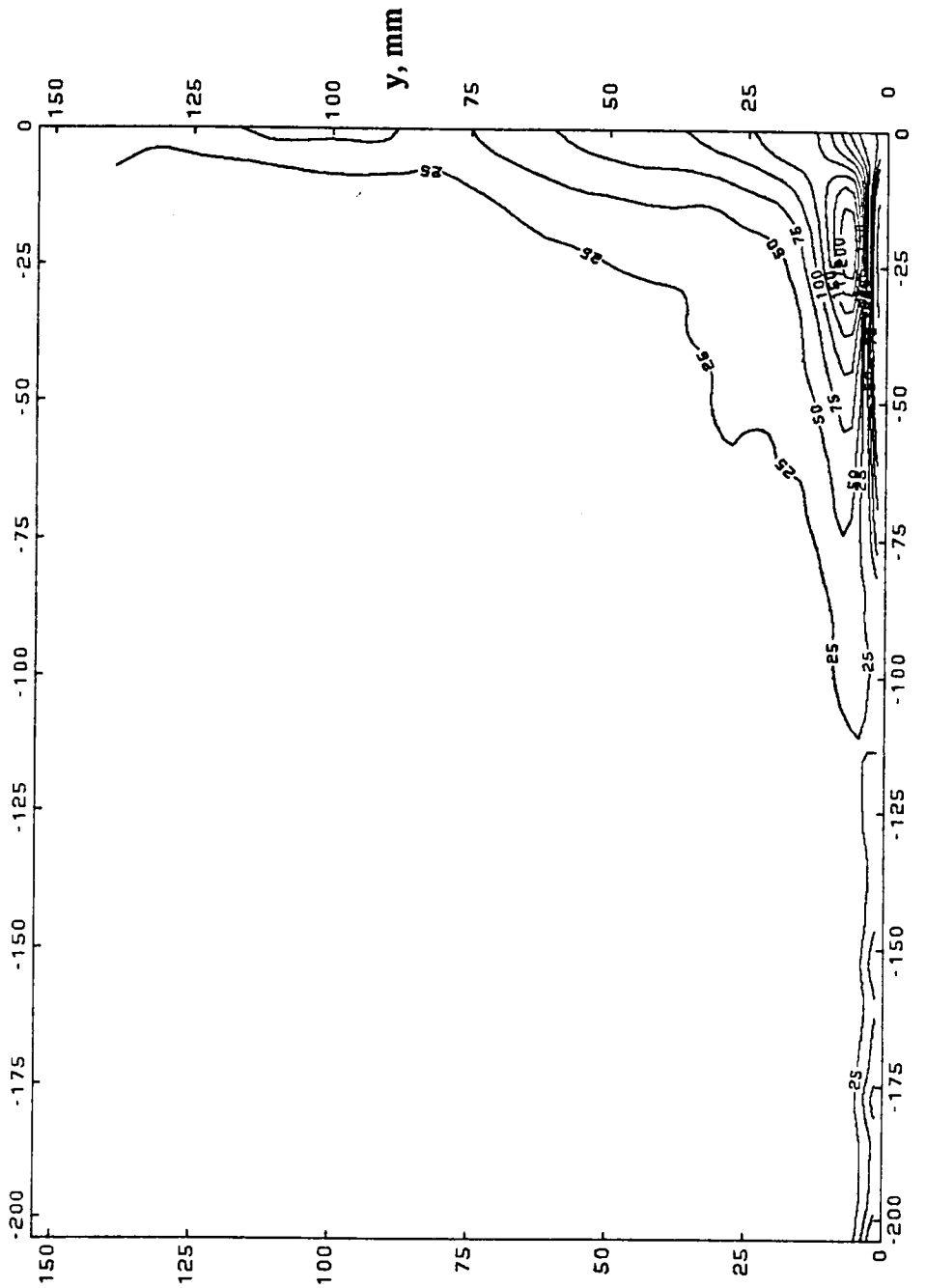


Fig. 4.119 x-Component Vorticity Distribution at 125 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

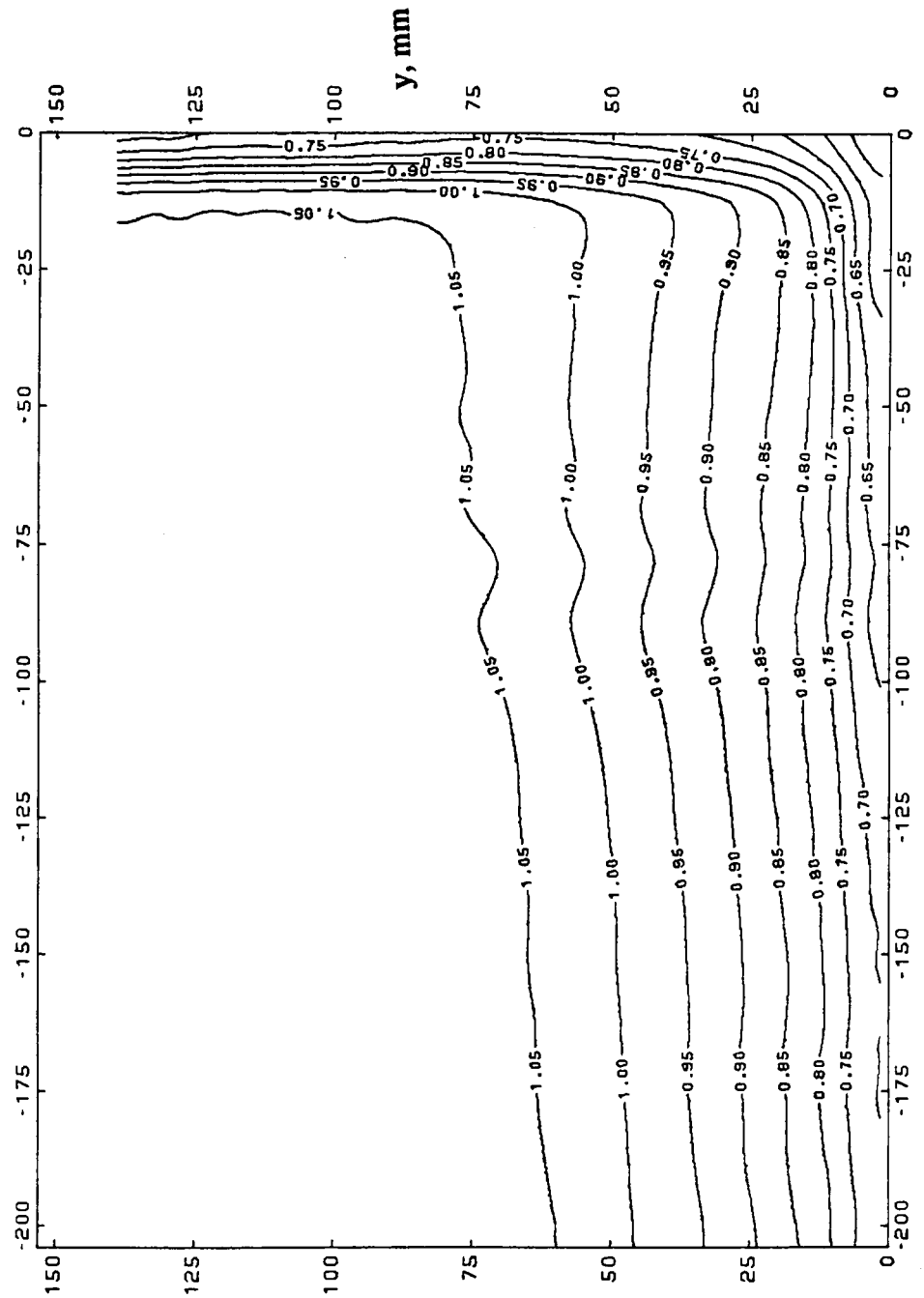


Fig. 4.120 U velocity Distribution at 125 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

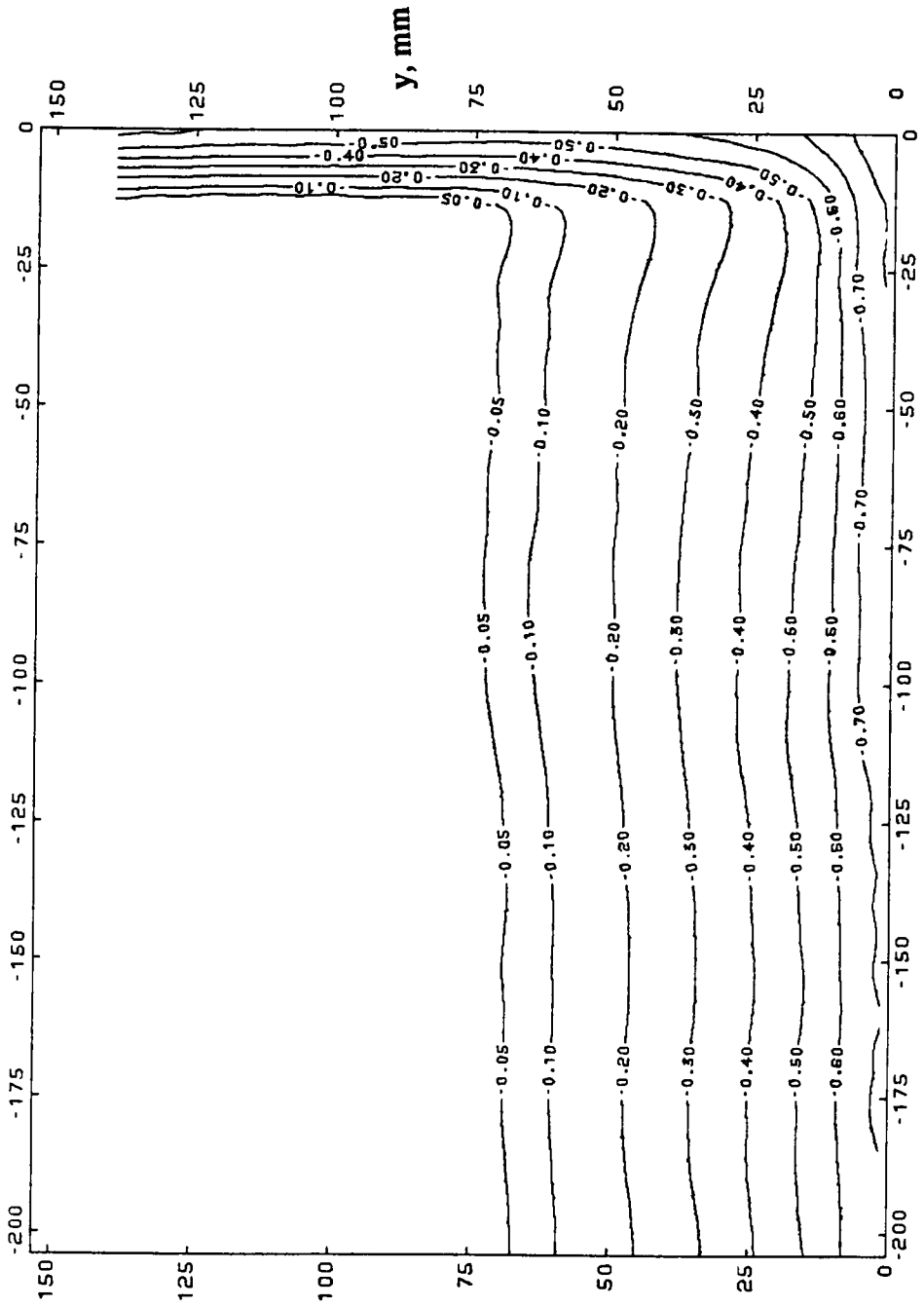


Fig. 4.121 Total Pressure Coefficient Distribution at 125 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

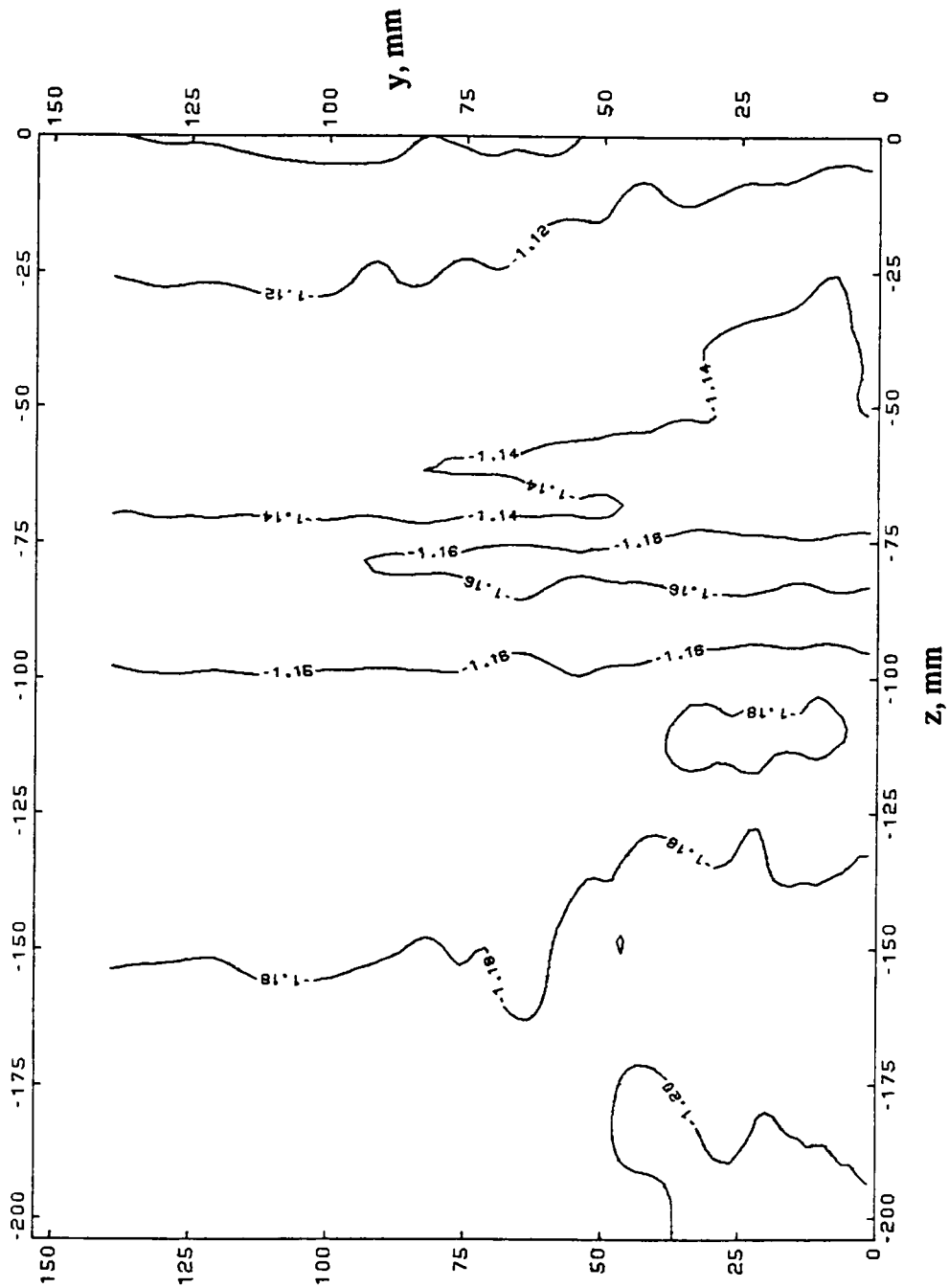


Fig. 4.122 Static Pressure Coefficient Distribution at 125 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

are shown in Figs. 4.121 and 4.122. The total pressure distribution also shows very small effects of any vortex. The static pressure distribution shows nearly constant static pressure, characterized by noise.

4.5.3.5 150 Percent Chord Plane

Measurements were made at the 150 percent chord plane to compare the wake flow field with the wake flow field of the 1.5:1 elliptical nose body. The graphical results at this location are shown in Figs. 4.123 through 4.127. The secondary velocity vector distribution clearly shows a vortex structure whose center has moved further away from the tunnel centerline and floor. The positive vorticity region in Fig 4.124 has grown and moved away from the tunnel centerline. The peak vorticity value has decreased from something of the order of 350/sec to 260/sec indicating the strength of the vortex has been reduced by dissipation. A negative vorticity region seen beneath the positive vorticity region appears to be induced by the velocity gradients between the first row of vectors and the zero velocity at the floor. The U velocity distribution in Fig. 4.125 and the total pressure distribution in Fig. 4.126 show very small effects of the vortex. The static pressure distribution in Fig. 4.127 shows nearly constant static pressure across the region, again characterized by noise.

4.5.4 Comparisons Among Leading Edge Fillets

It appears that fillet #3 reduced the strength and size of the primary horseshoe vortex most effectively among the three leading edge fillets investigated. However, it developed a corner separation further upstream compared to fillet #1 and fillet #2, resulting

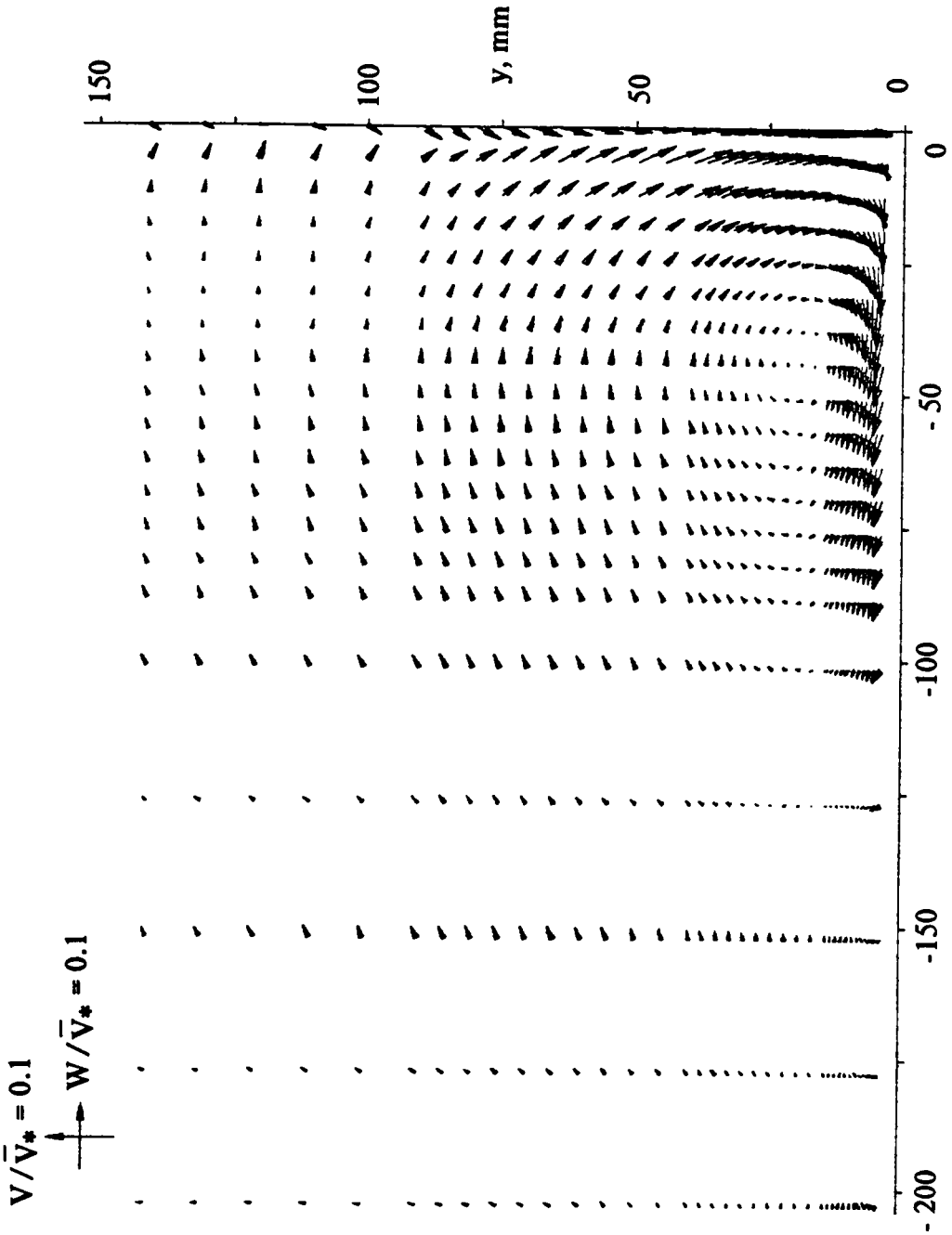


Fig. 4.123 Secondary Velocity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

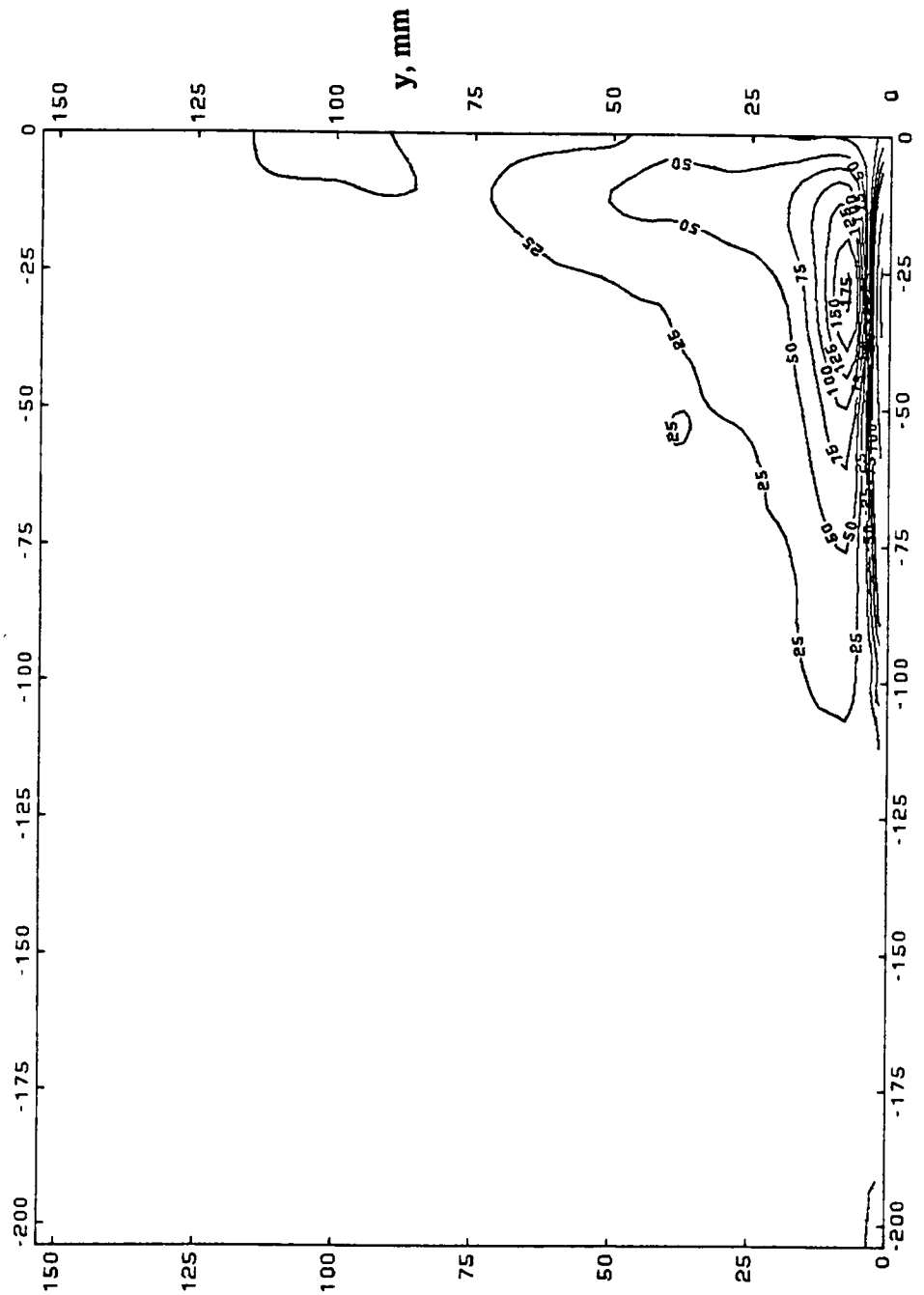


Fig. 4.124 x-Component Vorticity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

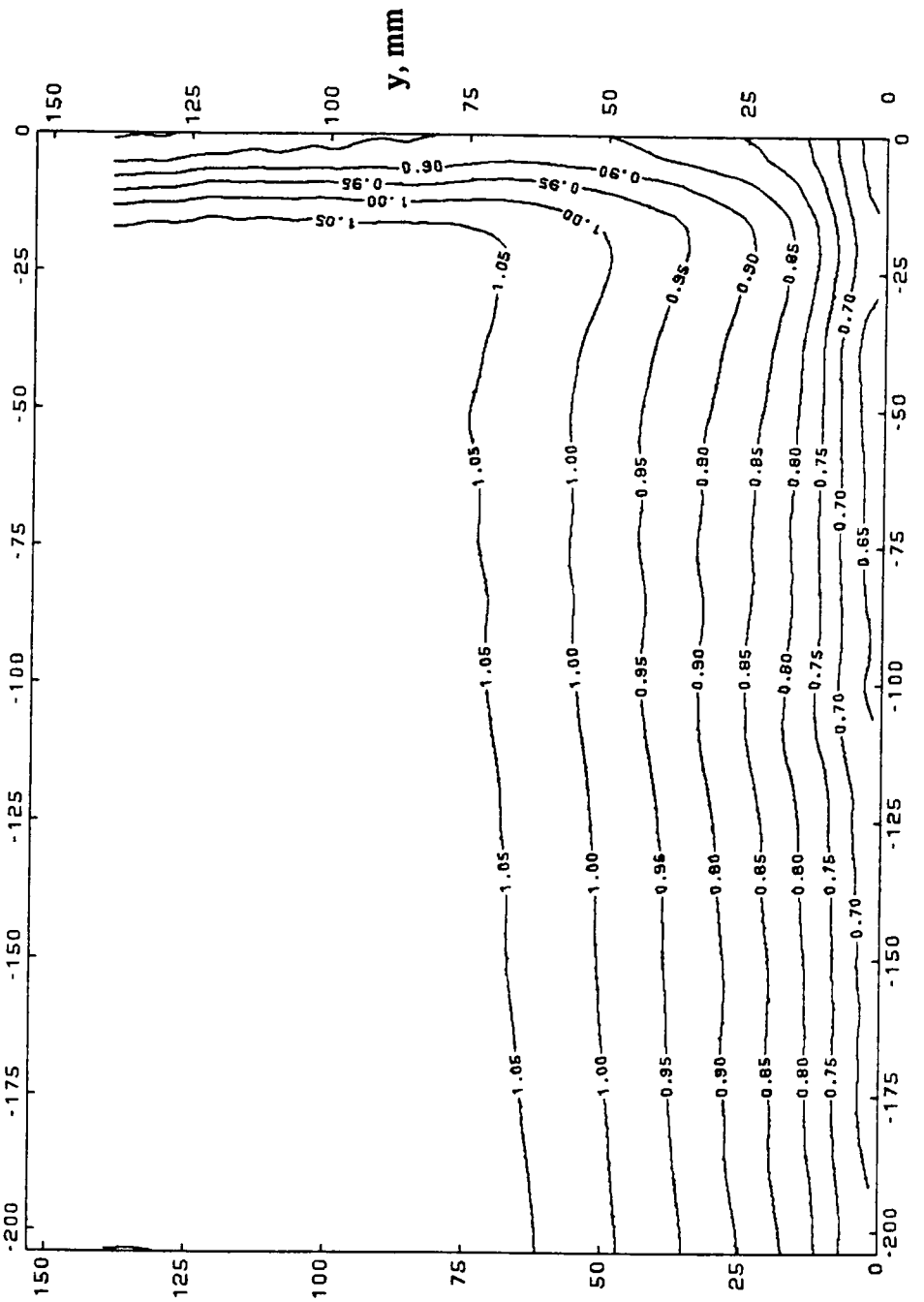


Fig. 4.125 U velocity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

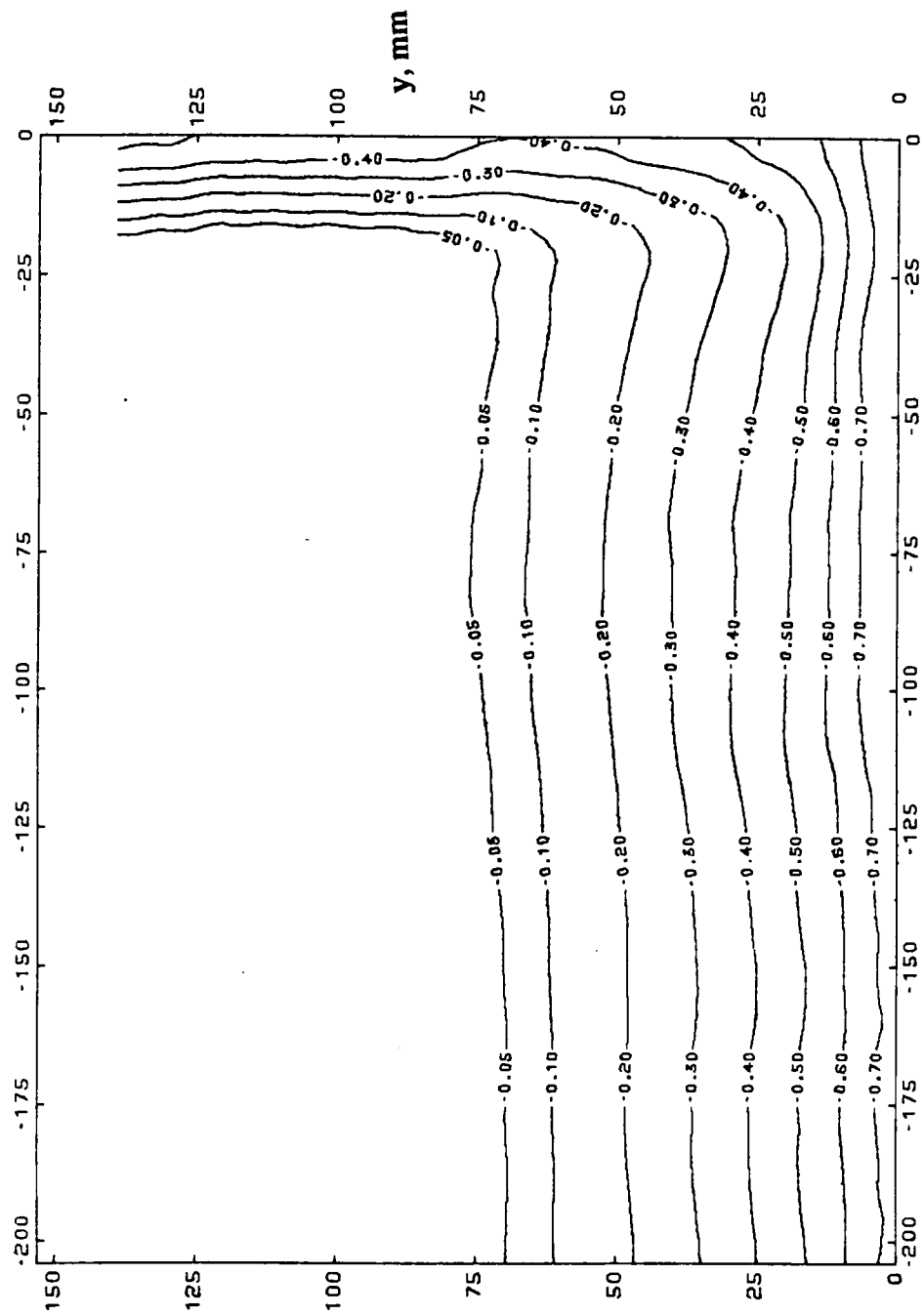


Fig. 4.126 Total Pressure Coefficient Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

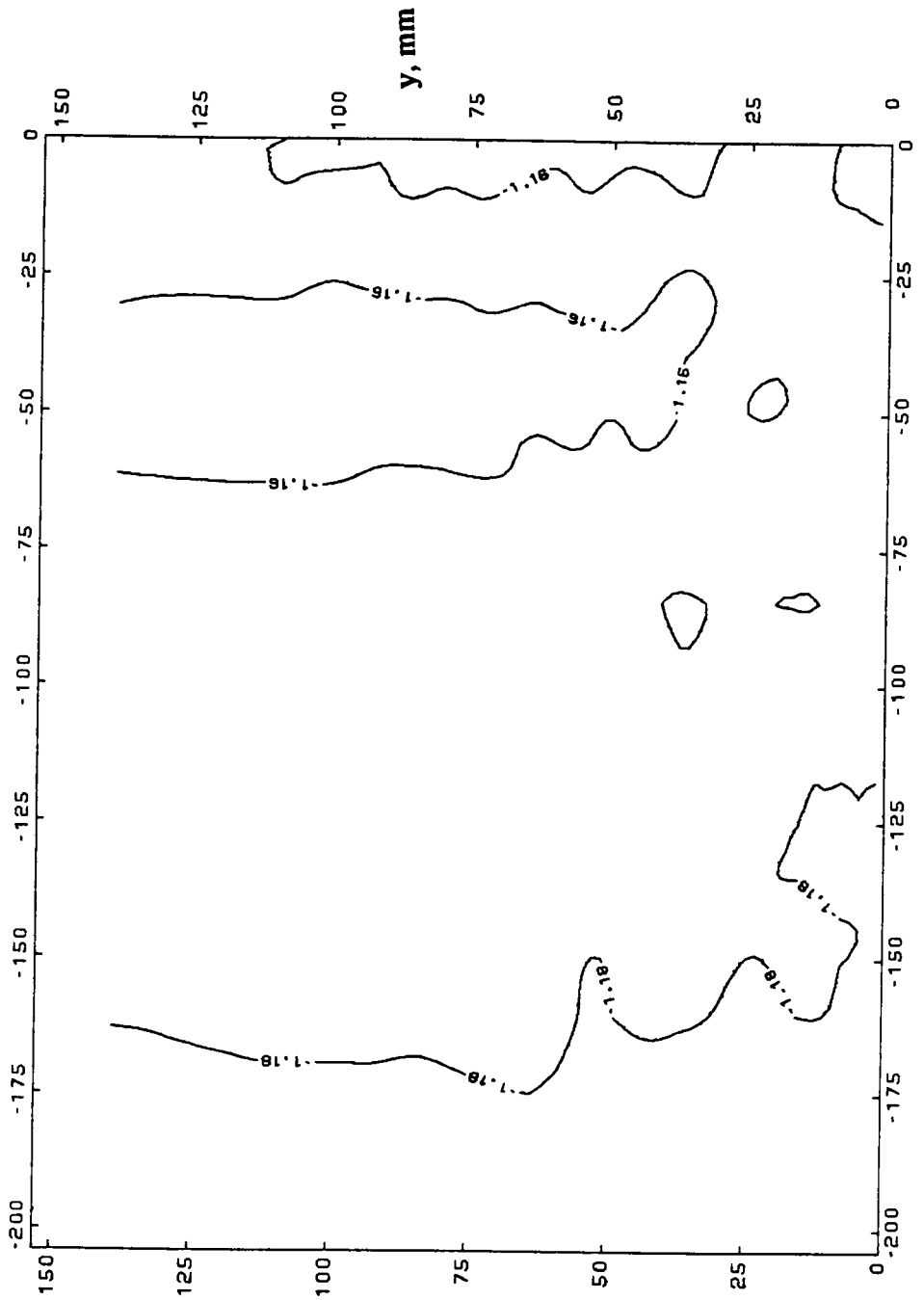


Fig. 4.127 Static Pressure Coefficient Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3

in a stronger corner separation vortex at the 100 percent chord position. From these results, it is difficult to determine which of the fillets is the most effective in the reduction of the strength and the size of the horseshoe vortex system. This raises the question of what should be the criterion for the definition of the effectiveness of a fillet in the reduction of the strength and size of the horseshoe vortex system. Several approaches including calculating the circulation and the mean secondary kinetic energy were considered and will be discussed in Section 4.6.

This study of the fillet effects indicates that the use of a leading edge fillet can effectively reduce the strength and size of the primary horseshoe vortex. It also suggests that the height of the fillet is an important factor in the design of a fillet, and the height should at least be of the order of one boundary layer thickness for an effective fillet.

4.5.5 Fillet #3 and a Trailing Edge Fillet

Although a leading edge fillet can reduce the strength and size of the primary horseshoe vortex (Fillet #3 appeared to generate a weaker primary horseshoe vortex which dissipated almost completely before it reached the 100 percent chord location), vorticity still remains in the wake, apparently due to other vortex structures such as a corner separation vortex.

A trailing edge fillet was used with fillet #3 at the leading edge to investigate the possibility of reducing the corner separation vortex. The trailing edge fillet was made similar to the leading edge fillets as described in Section 2.3.2. It had a height of one boundary layer thickness and a base length of one body maximum thickness. Measurements were made at the 150 percent chord location to measure the wake for comparison at this location with the results for fillet #3.

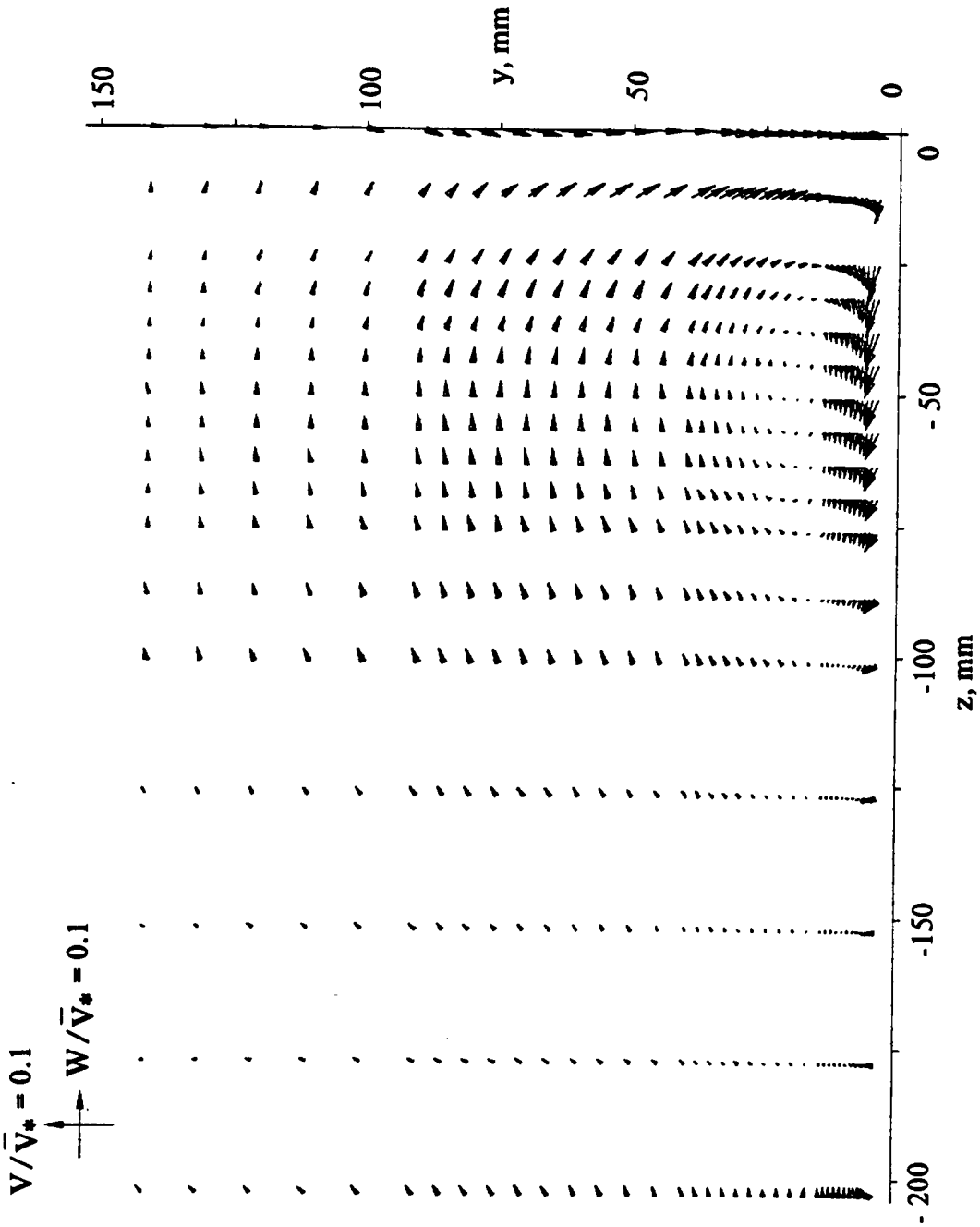


Fig. 4.128 Secondary Velocity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet

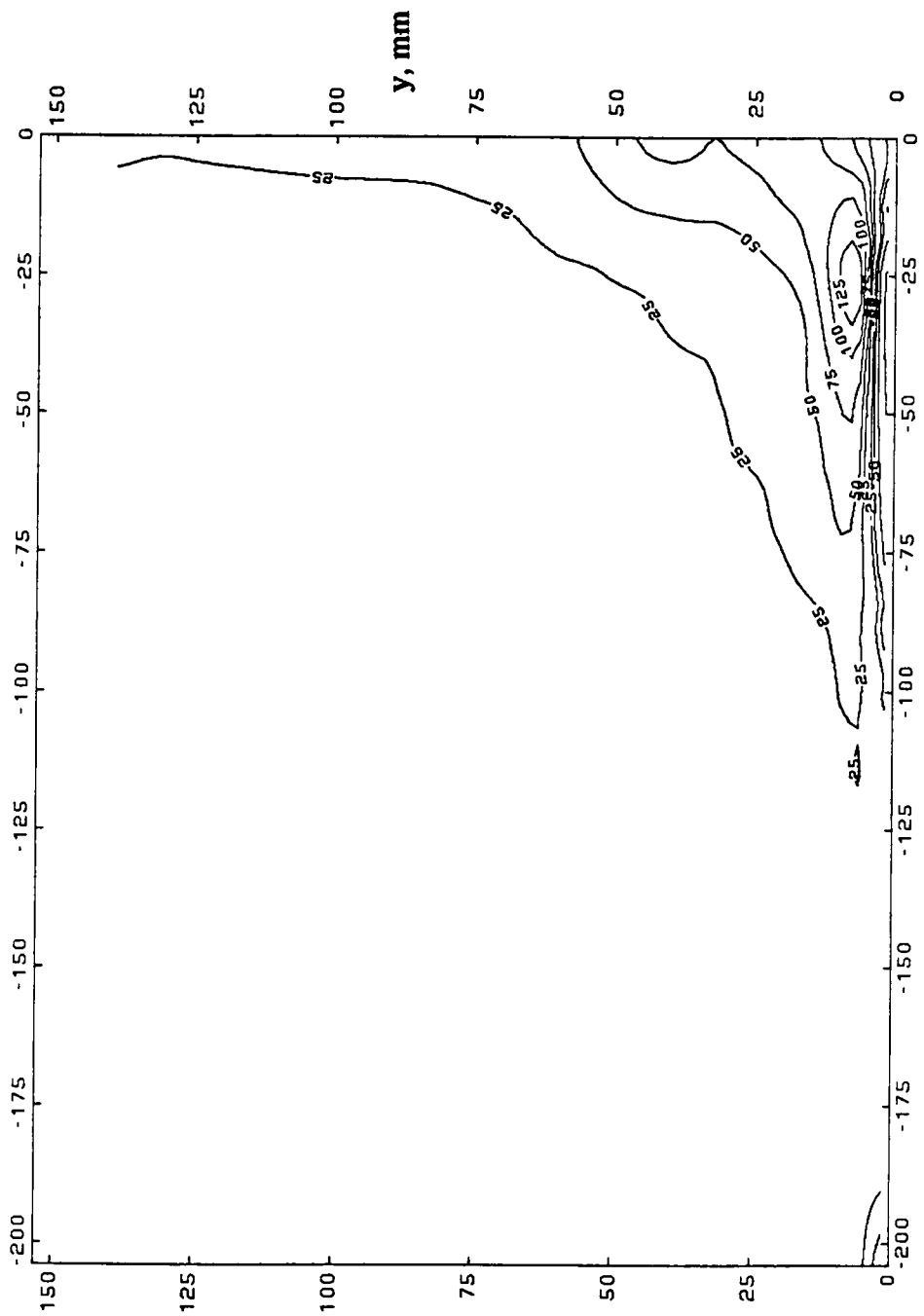


Fig. 4.129 x-Component Vorticity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet

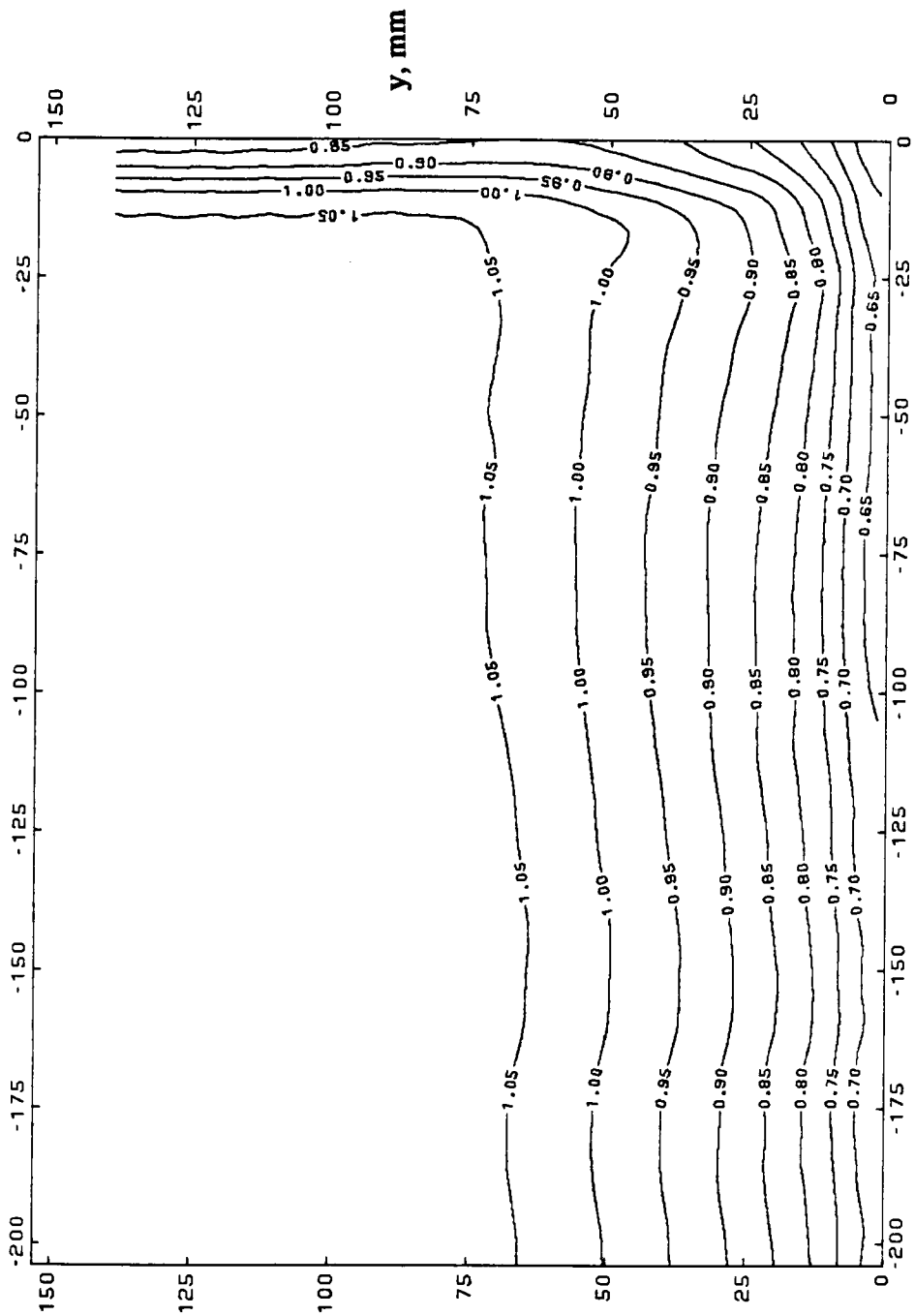


Fig. 4.130 U Velocity Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet

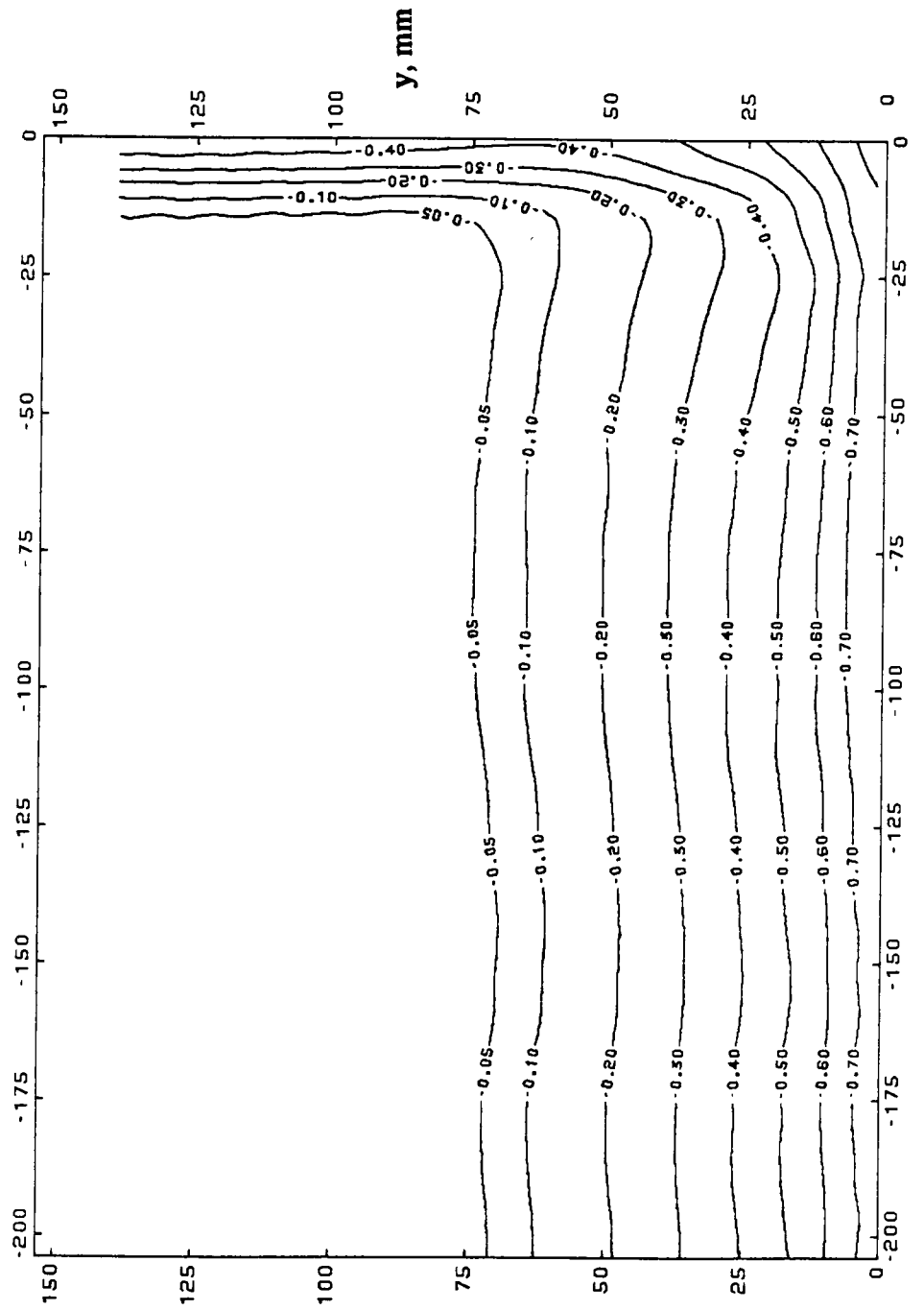


Fig. 4.131 Total Pressure Coefficient Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet

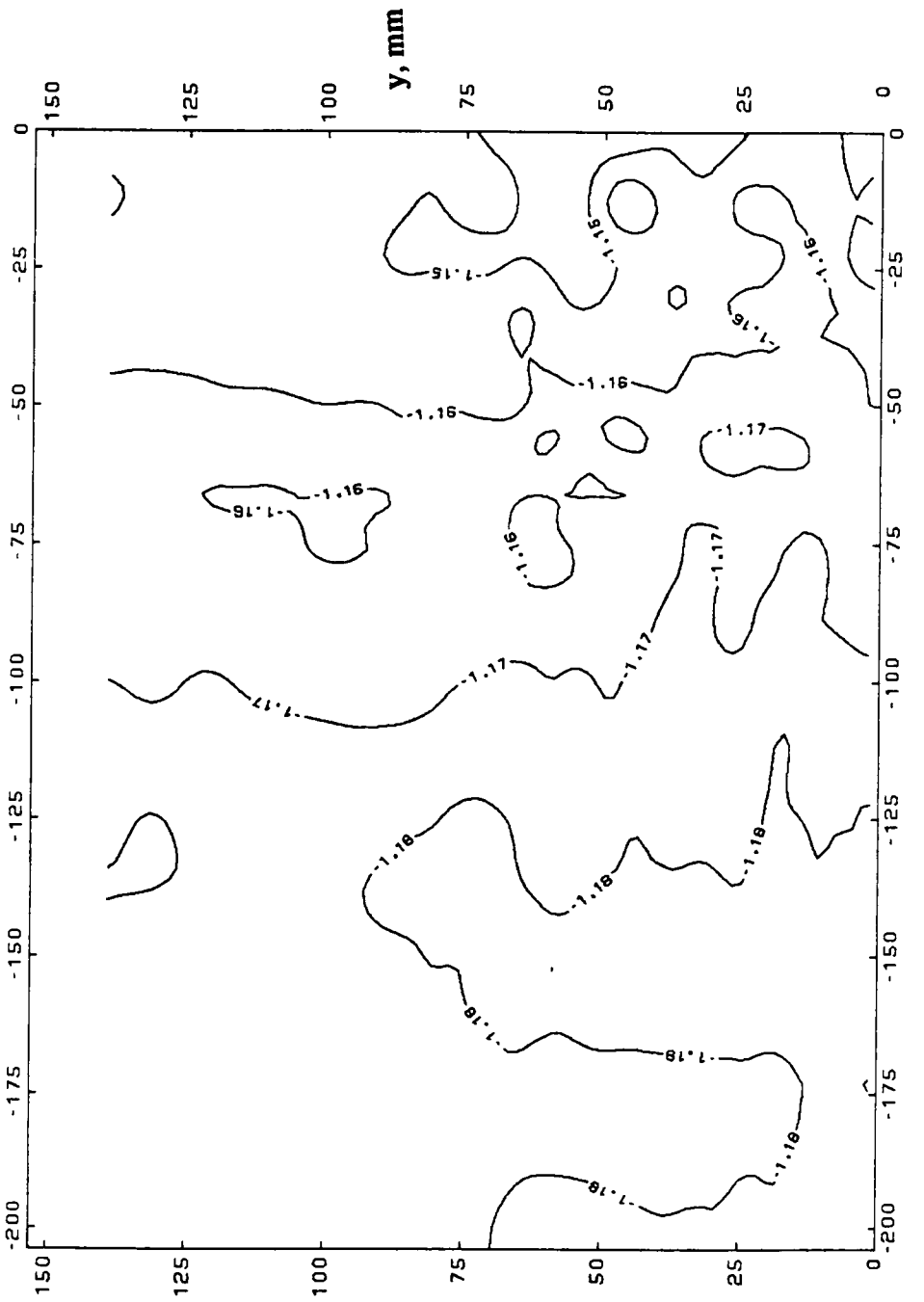


Fig. 4.132 Static Pressure Coefficient Distribution at 150 Percent Chord for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet

The secondary velocity vector distribution is shown in Fig. 4.128 and shows a distribution similar to that for fillet #3. The x-component vorticity distribution in Fig. 4.129, the U velocity distribution in Fig. 4.130, and the total pressure distribution in Fig. 4.131 are all largely similar to the corresponding distributions for fillet #3 with the exception that the peak vorticity value has reduced from 260/sec for fillet #3 to 190/sec for fillet #3 with the trailing edge fillet. This indicates that the trailing edge fillet did reduce the strength of the corner separation vortex. As mentioned in Section 4.1, the floor surface flow visualization for this case did not show any significant changes in the wake flow patterns compared to those of fillet #3. This consistent with the continued presence, though weakened, corner separation vortex with the trailing edge fillet.

4.6 Circulation and Secondary Kinetic Energy

It was desirable to define a criterion for the control of the junction vortex system to assess the effectiveness of the nose shape modifications and the fillets. The effectiveness of a nose shape or a fillet modification was judged in terms of the reduction in the strength of the junction vortex system. Hence a measure of quantifying the strength of junction vortex system was required.

A value of peak vorticity can be taken as a measure of vortex strength. For example, it was observed that, for the 1.5:1 elliptical nose body, the peak vorticity value of the primary horseshoe vortex decreased as the flow proceeded downstream. This suggests that the strength of the primary horseshoe vortex, as indicated by the peak vorticity value, weakens as the vortex wraps around the body. Since the measurements showed multiple vortices at some measurement planes (for example, the 100 percent chord plane for the 1.5:1 elliptical nose body), measures in addition to the peak vorticity value were defined to quantify the strength of the vortex system. Two additional measures for quantifying the

strength of the junction vortex system were used. These include circulation and secondary kinetic energy per unit mass.

Circulation, Γ, was defined as the integral of the x-component vorticity over a region in a measurement plane.

$$\Gamma = \int\int \Omega_x \, dy \, dz \, . \tag{4.21}$$

Circulation is given in m^2/sec.

Secondary kinetic energy per unit mass was defined as the following.

$$\text{Secondary K.E. per Unit Mass} = \frac{\int_A \left[\frac{V^2 + W^2}{2}\right] \rho \, U \, dA}{\int_A \rho \, U \, dA} \, . \tag{4.22}$$

The secondary kinetic energy per unit mass is given in m^2/sec^2.

The 100 percent chord plane is the common measurement plane for all bodies investigated, and values for circulation and secondary kinetic energy per unit mass were compared in this plane to assess the effectiveness of nose shape modifications and fillets. For the circulation calculation, the square region shown in Fig. 4.133 was used as the area of integration for all bodies at this plane. There is some difficulty in selecting the boundary over which integration is made. This is because of the presence of multiple vortex structure and because of the difficulty in defining the physical limits or size of any vortex structure. The area shown in Fig. 4.133 includes the primary horseshoe vortex and the corner separation vortex. Secondary kinetic energy per unit mass was calculated in the same area as shown in Fig. 4.133 for all bodies. Secondary kinetic energy per unit mass was

calculated over the whole measurement region for all bodies, but the results revealed the same trend as the results calculated in the area shown in Fig. 4.133. Although, the area for the circulation and secondary kinetic energy calculations was chosen in somewhat arbitrary fashion, it represents essential characteristics of the strength of the junction vortex system. The values of circulation and secondary kinetic energy per unit mass are given in Table 4.1.

All bodies with modified leading edges resulted in smaller values for circulation and secondary kinetic energy compared to the 1.5:1 elliptical nose body, which suggests that the leading edge modifications in fact reduced the strength of the junction vortex system. It can be seen that the 4:1 wedge elliptical nose body resulted in a smaller value for circulation than 4:1 elliptical nose body, and the 1.5:1 elliptical nose body with fillet #3 resulted in the smallest value for circulation among the fillets. Comparing the values for secondary kinetic energy, it can be seen that a body with a smaller circulation value resulted in a smaller value for secondary kinetic energy. A smaller value of circulation implies a weaker vortex system which suggests a weaker secondary flow field. By the definition of secondary kinetic energy given in Eq. 4.22, a weaker secondary flow field will result in a smaller value for secondary kinetic energy. Hence, a body with a smaller value of circulation at the 100 percent chord plane is generally expected to have a smaller value of secondary kinetic energy. However, there was one exception, where fillet #3 resulted in a larger value for secondary kinetic energy than fillet #1, despite of a smaller value for circulation.

Comparing the secondary velocity distributions for fillet #1 and fillet #3 in Fig. 4.80 and Fig. 4.113, larger W velocities are seen near the floor in the region -75 mm < z < -25 mm for fillet #3. These larger W velocities near the floor resulted in a larger value of secondary kinetic energy for fillet #3. Since the integration involved in the calculation for

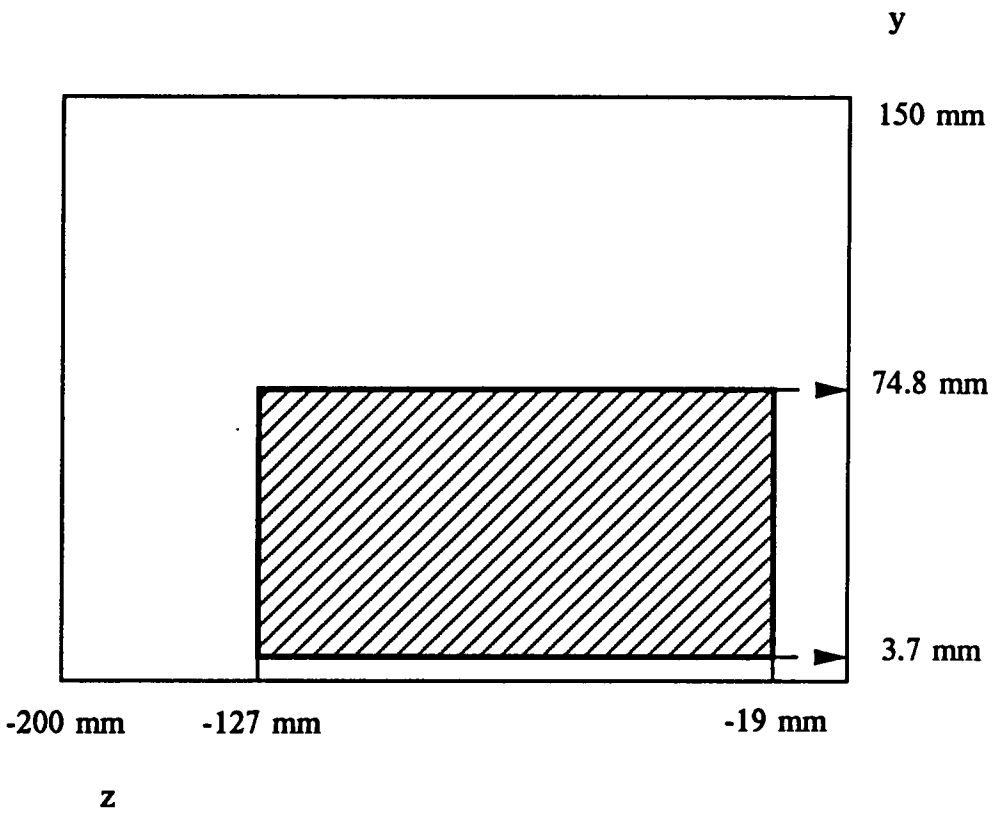


Fig. 4.133 Area of Integration for Calculations of Circulation and Secondary Kinetic Energy at the 100 Percent Chord Plane

Table 4.1 Circulation and Secondary Kinetic Energy at the 100 Percent Chord Plane

	1.5:1 Elliptical Nose Body	4:1 Elliptical Nose Body	4:1 Wedge Elliptical Nose Body	1.5:1 Elliptical Nose Body with Fillet #1	1.5:1 Elliptical Nose Body with Fillet #2	1.5:1 Elliptical Nose Body with Fillet #3
Circulation, $[m^2/sec]$	0.233	0.132	0.112	0.156	0.173	0.109
Secondary Kinetic Energy, $[m^2/sec^2]$	1.173	0.902	0.841	0.934	1.156	1.027

circulation as defined in Eq. 4.21 was performed numerically, x-component vorticity values at each data collection grid point were required for the calculation. The x-component vorticity was defined as

$$\Omega_x = \frac{\partial W}{\partial y} - \frac{\partial V}{\partial z}, \tag{4.1}$$

and $\frac{\partial W}{\partial y}$ and $\frac{\partial V}{\partial z}$ at each data grid point were calculated using a finite divided difference method. A comparison of $\frac{\partial W}{\partial y}$ and $\frac{\partial V}{\partial z}$ values for fillet #1 and fillet #3 for a data profile at z = -50.8 mm is shown in Fig. 4.134. It can be seen that $\frac{\partial W}{\partial y}$ values are much larger than $\frac{\partial V}{\partial z}$ values near the floor, and $\frac{\partial V}{\partial z}$ values are nearly zero close to the floor and are almost the same for fillet #1 and fillet #3. This indicates that the x-component vorticity values near the floor for this data profile are dominated by W velocity gradients. The comparison shows that $\frac{\partial W}{\partial y}$ values for fillet #3 are smaller than those for fillet #1 near the floor, resulting in smaller x-component values as shown in Fig. 4.135. Similar $\frac{\partial W}{\partial y}$ and $\frac{\partial V}{\partial z}$ distributions are seen near the floor for the data profiles in the region -75 mm < z < -25 mm. Hence these smaller $\frac{\partial W}{\partial y}$ values near the floor in the region -75 mm < z < -25 mm for fillet #3 resulted in a smaller value for circulation despite of the larger secondary kinetic energy due to larger W velocities near the floor, compared to fillet #1.

The comparisons of the circulation and the secondary kinetic energy for the 1.5:1 elliptical nose body, the 4:1 elliptical nose body, and the 4:1 wedge elliptical nose body clearly suggest that the strength of the junction vortex system depends on the slenderness of the nose shape. For the fillets, fillet #3 was judged to be the most effective in reducing the strength of the junction vortex system. Although, fillet #3 resulted in a larger value for

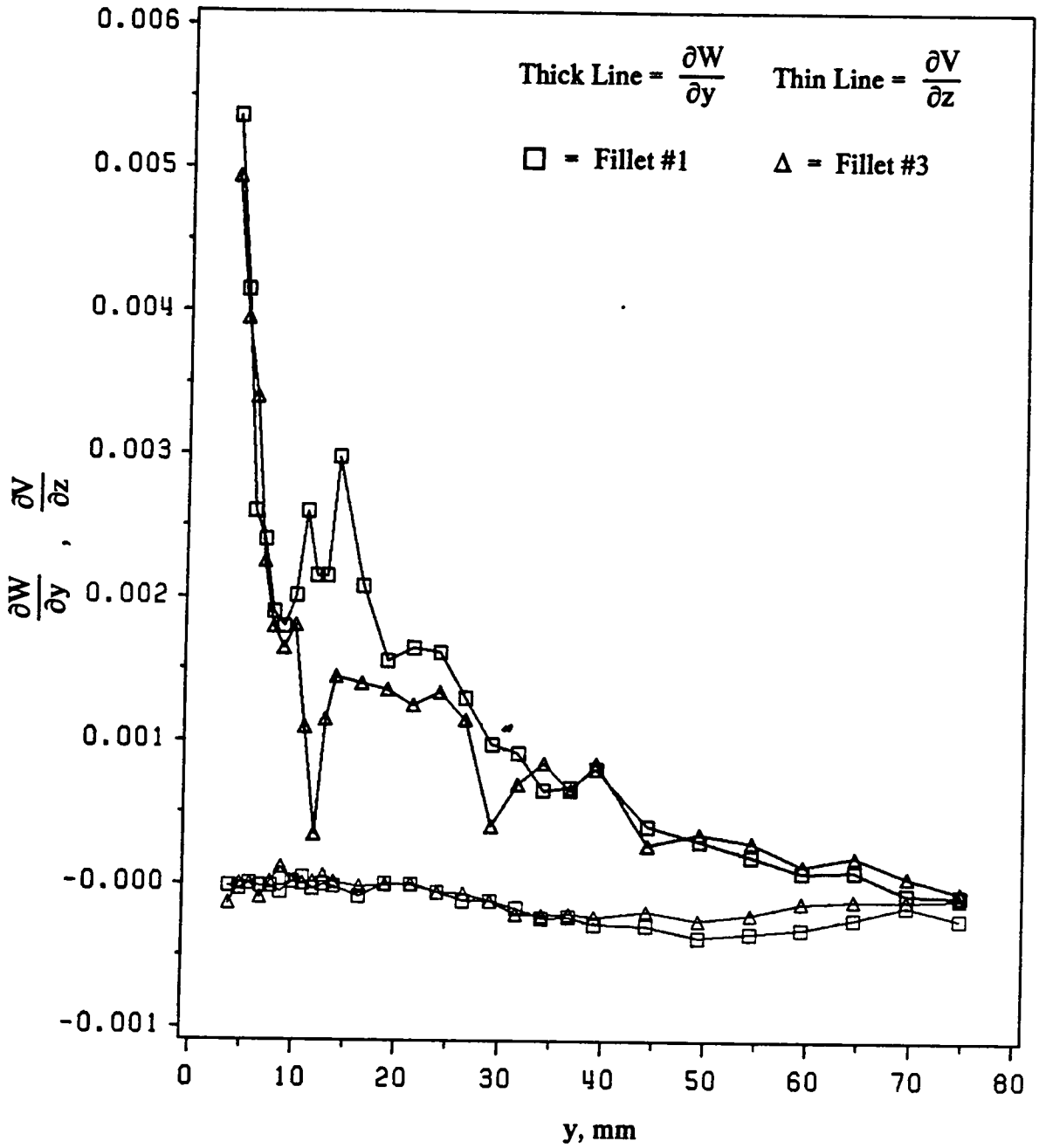


Fig. 4.134 V and W Velocity Gradients for the 1.5:1 Elliptical Nose Body with Fillet #1 and Fillet #3 at z = -51 mm

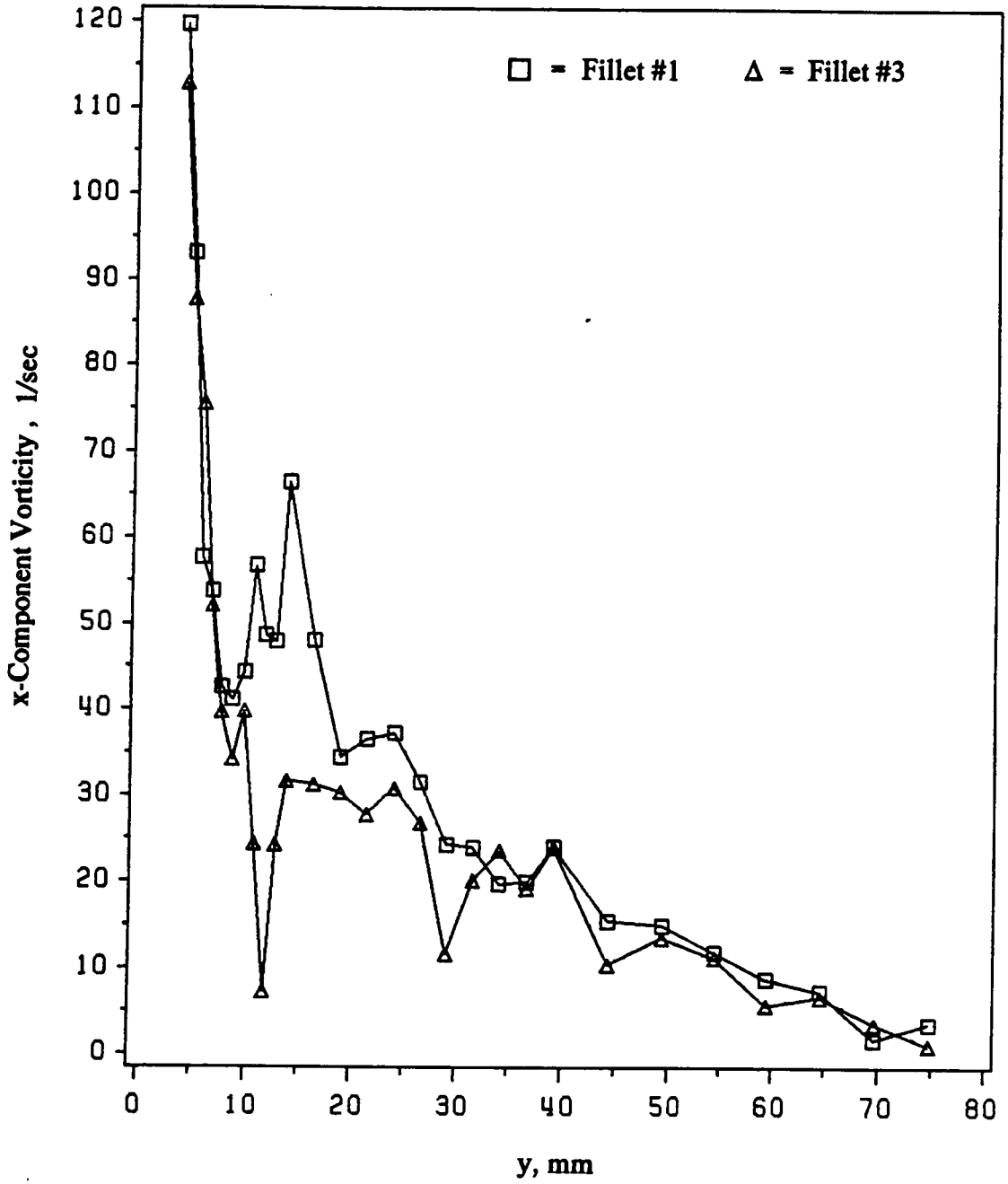


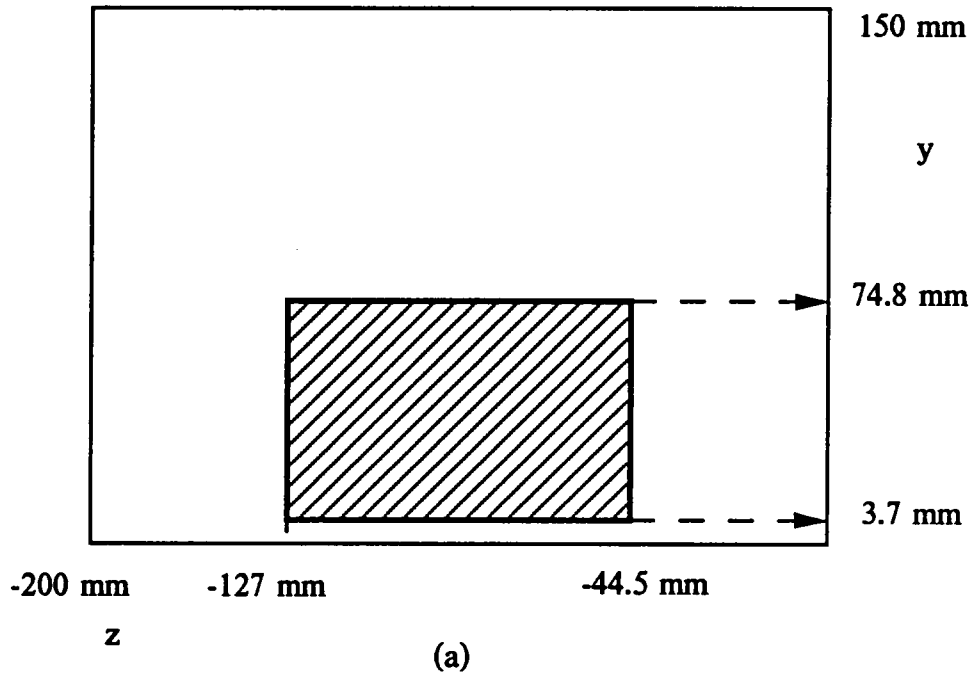
Fig. 4.135 x-Component Vorticity for the 1.5:1 Elliptical Nose Body with Fillet #1 and Fillet #3 at z = -51 mm

secondary kinetic energy than fillet #1, the increase is about 10 percent, whereas the decrease in the value for circulation is more substantial at almost 30 percent.

In addition to the 100 percent chord plane, circulation and secondary kinetic energy per unit mass were calculated at the maximum thickness plane, the 43 percent chord plane, and the 150 percent chord plane for various bodies for comparison purposes.

Circulation and secondary kinetic energy per unit mass were calculated at the maximum thickness plane for the 1.5:1 elliptical nose body, 4:1 elliptical nose body, and the 4:1 wedge elliptical nose body in the area shown in Fig. 4.136 (a). Values are given in Table 4.2 (a) for a comparison. Large decreases in values for both circulation and secondary kinetic energy are seen for the 4:1 elliptical nose body and the 4:1 wedge elliptical nose body, suggesting that the strength of the primary horseshoe vortex was reduced by these nose modifications. It should be recalled that there was no evidence of the presence of a corner separation vortex at this measurement plane for all three above mentioned bodies. The 4:1 wedge elliptical nose body resulted in a smaller value of circulation but a larger value of secondary kinetic energy than the 4:1 elliptical nose body. This can be explained by the same reason discussed earlier in the comparison at the 100 percent chord plane. The secondary velocity distribution for the 4:1 elliptical nose body also showed weaker secondary velocities in the region away from the floor compared to fillet #1. This resulted in a smaller value for secondary kinetic energy for the 4:1 elliptical nose body.

Circulation and secondary kinetic energy per unit mass were calculated at the 43 percent chord plane for the 1.5:1 elliptical nose body, 1.5:1 elliptical nose body with fillet #2, and 1.5:1 elliptical nose body with fillet #3 in the area shown in Fig. 4.136 (a). Values are given in Table 4.2 (b) for a comparison. Large decreases in values for both circulation and secondary kinetic energy are seen for fillet #2 and fillet #3, suggesting that the strength



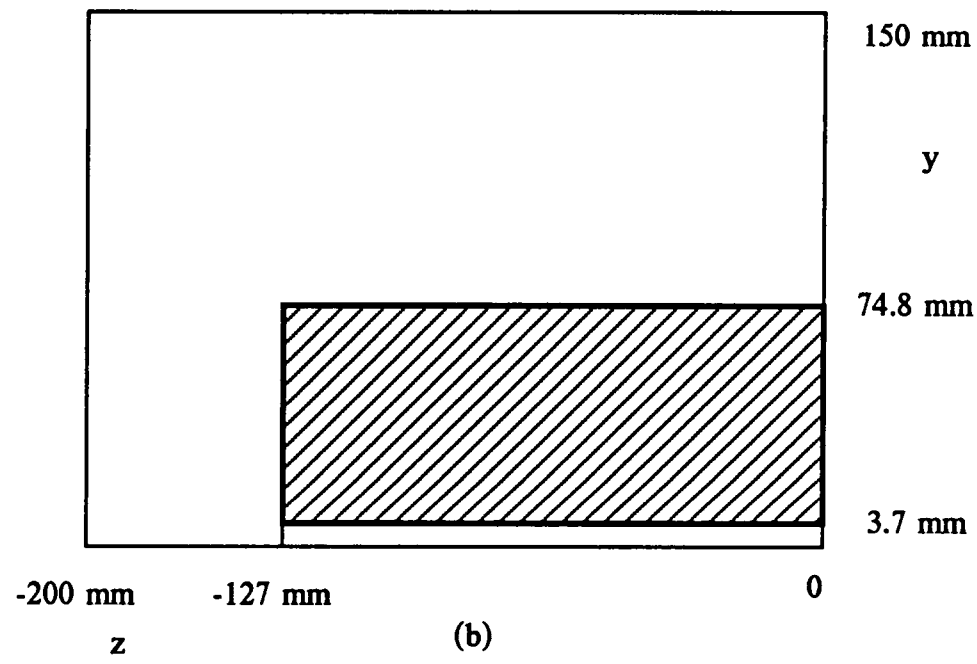


Fig. 4.136 Area of Integration for Calculations of Circulation and Secondary Kinetic Energy at the Maximum Thickness, 43, and 150 Percent Chord Planes

Table 4.2 Circulation and Secondary Kinetic Energy at the Maximum Thickness,43 Percent Chord, and 150 Percent Chord Planes

	1.5:1 Elliptical Nose Body	4:1 Elliptical Nose Body	4:1 Wedge Elliptical Nose Body
Circulation, [m^2/sec]	0.325	0.168	0.163
Secondary Kinetic Energy, [m^2/sec^2]	1.110	0.149	0.322

(a) at Maximum Thickness Position

	1.5:1 Elliptical Nose Body	1.5:1 Elliptical Nose Body with Fillet #2	1.5:1 Wedge Elliptical Nose Body with Fillet #3
Circulation, [m^2/sec]	0.237	0.133	0.075
Secondary Kinetic Energy, [m^2/sec^2]	1.323	0.971	1.134

(b) at 43 % Chord

	1.5:1 Elliptical Nose Body	4:1 Elliptical Nose Body	1.5:1 Wedge Elliptical Nose Body with Fillet #3
Circulation, [m^2/sec]	0.299	0.265	0.223
Secondary Kinetic Energy, [m^2/sec^2]	0.220	0.153	0.137

(c) at 150 % Chord

of the junction vortex was reduced by these leading edge fillets. The fillet #3 resulted in a smaller value of circulation but a larger value of secondary kinetic energy than the fillet #2. Again, this can be explained by the same reason discussed in the comparison at the 100 percent chord plane. The secondary velocity distribution for the fillet #2 showed very weak secondary velocities near the floor in the junction region, which resulted in a smaller value for secondary kinetic energy.

Circulation and secondary kinetic energy per unit mass were calculated at the 150 percent chord plane for the 1.5:1 elliptical nose body, 4:1 elliptical nose body, and 1.5:1 elliptical nose body with fillet #3 in the area shown in Fig. 4.136 (b). Values are given in Table 4.2 (c) for a comparison. Decreases in values for circulation and secondary kinetic energy are not as large as those seen at other planes. This suggests that the leading edge modifications have small effects on the vorticity field in the wake as discussed in the previous sections.

Circulation of the primary horseshoe vortex for the 1.5:1 elliptical nose body was calculated at four measurement planes, including the maximum thickness, 43 percent chord, 100 percent chord, and 150 percent chord plane, to document the development of the strength of the primary horseshoe vortex only. For this calculation, the same square region shown in Fig. 4.137 was used as the area of integration for all four measurement planes and was selected to include only the primary horseshoe vortex. Vorticity levels less than 20 percent of the peak value were taken as zero vorticity to ensure including only the primary horseshoe vortex in the integration area. The values of the circulation at the four measurement planes are shown in Fig. 4.138. The circulation decreased gradually to the 100 percent chord location, then increased slightly. The decrease of the circulation to the 100 percent chord percent plane indicates that the strength of the primary horseshoe vortex weakens as the vortex flow field develops. This is consistent with the decrease of the peak

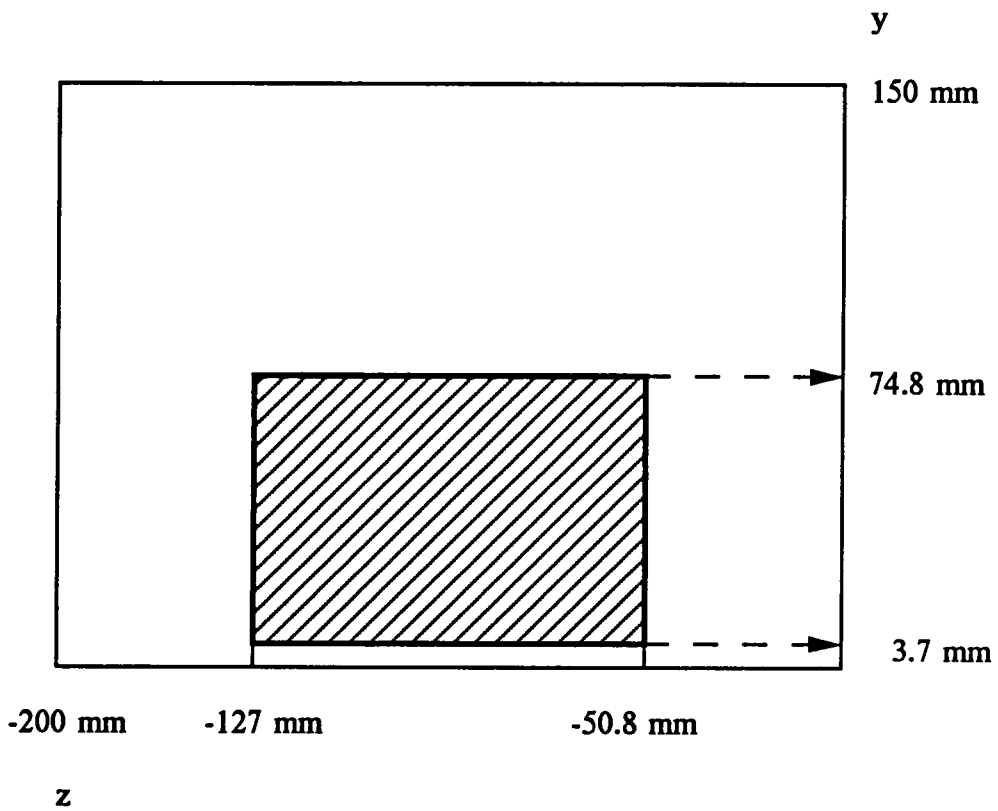


Fig.4.137 Area of Integration for Calculation of Circulation of the Primary Horseshoe Vortex for the 1.5:1 Elliptical Nose Body

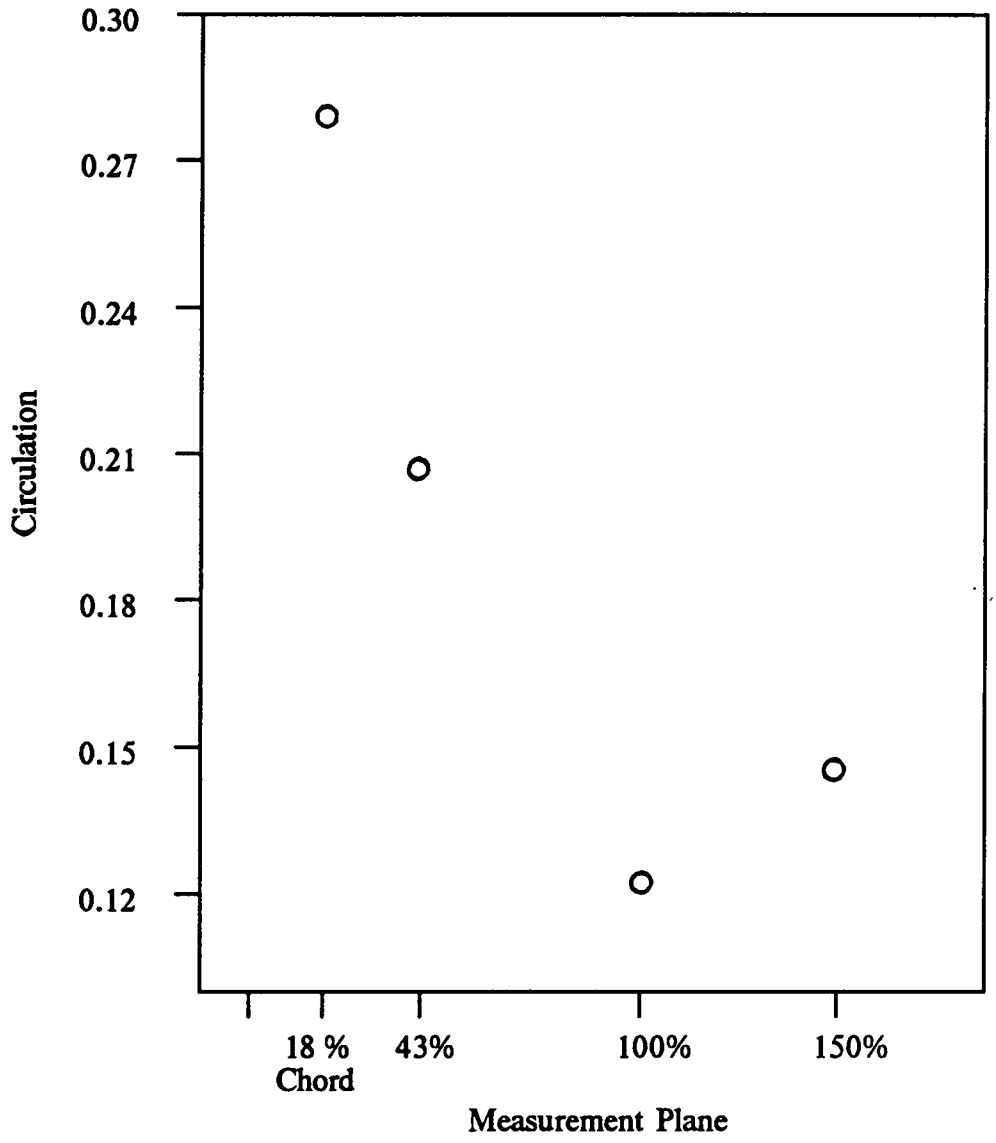


Fig. 4.138 Circulation of the Primary Horseshoe Vortex for the 1.5:1 Elliptical Nose Body

vorticity value of the primary horseshoe vortex described earlier except for the 150 percent chord plane. The small increase of the circulation after the 100 percent chord position is explained by the unavoidable inclusion of the co-rotating corner separation vortex very near the junction at the 150 percent chord plane observed previously.

5. SUMMARY

The effective methods of controlling the junction vortex system in the incompressible, three-dimensional, turbulent flow around and in the wake of a NACA 0020 body with a 1.5:1 elliptical nose were experimentally studied using a five-hole pressure probe and surface flow visualizations. Control of the junction vortex system was investigated using two different approaches. One approach was by changing the nose slenderness ratio, and the second approach was by the use of leading edge fillets. The experimental program consisted of five parts:

(1) Mean flow measurements of the flow field around and in the wake of the 1.5:1 elliptical nose body.

(2) Mean flow measurements of the flow field around and in the wake of the slender nose bodies (4:1 elliptical nose body and 4:1 wedge elliptical nose body).

(3) Mean flow measurements of the flow field around and in the wake of the 1.5:1 elliptical nose body with three leading edge fillets.

(4) Mean flow measurements of the flow field in the wake of the 1.5:1 elliptical nose body with a leading edge fillet and a trailing edge fillet.

(5) Flow visualizations of the surface flows on the flat floor of the wind tunnel and on the above mentioned bodies using an oil-film technique.

The objectives of documenting the mean flow field around and in the wake of the NACA 0020 body with the 1.5:1 elliptical nose were to obtain a better understanding of

the junction vortex system in the turbulent junction flow, and to establish a reference case for comparisons.

One dominant vortex structure was observed in the measurement planes around the body. This streamwise vortex, which is referred to as the primary horseshoe vortex, dominates the flow. The computed x-component vorticity field at the 100 percent chord position can be interpreted to show the primary horseshoe vortex and a smaller, co-rotating vortex relative to the primary horseshoe vortex in the corner of the junction. This smaller vortex is believed to be identified with the corner separation at the junction near the trailing edge. Circulation of the primary horseshoe vortex was observed to decrease to the 100 percent chord position, but the area affected by the vorticity was observed to increase as the vortex flow field developed. The strength of the corner separation vortex, as indicated by the peak value of the vorticity, also decreased in the wake as the flow proceeded downstream.

Mean flow measurements of the flow field around and in the wake of the 4:1 elliptical body and the 4:1 wedge elliptical nose body were made to investigate the effects of the nose shape on the strength and size of the junction vortex system. Comparisons of the experimental results with the experimental results for the 1.5:1 elliptical nose body indicated that the strength and size of the primary horseshoe vortex was reduced by these nose shape modifications. The more slender nose generated the weaker primary horseshoe vortex. The computed x-component vorticity field at the 100 percent chord position suggests very small traces of the primary horseshoe vortex. It appears that the weak primary horseshoe vortex developed by the more slender nose was dissipated alongside the body. Vorticity identified with a corner separation vortex was observed in the computed x-component vorticity field at the 100 percent chord position. It appears that the vorticity at the 150 percent chord position was mainly identified with the corner separation vortex.

Mean flow measurements of the flow field around and in the wake of the 1.5:1 elliptical body with three leading edge fillets were made to investigate the effects of the leading edge fillets on the strength and size of the junction vortex system. Comparisons of the results between leading edge fillets and the 1.5:1 elliptical nose body indicated that leading edge fillets were very effective in reducing the strength and size of the primary horseshoe vortex. The experimental results also suggest that the height of the fillet is an important factor in the design of the leading edge fillet. An effective fillet should at least be about one boundary layer thickness high and two body thicknesses long. The computed x-component vorticity field at the 100 percent chord position suggested very small traces of the primary horseshoe vortex. It appears that a very weak horseshoe vortex was generated at the leading edge and was dissipated alongside the body. The vorticity identified with the corner separation vortex was observed in the computed x-component vorticity field at the 100 percent chord position, and it appears that this corner separation vortex dominates the flow in the wake.

A trailing edge fillet of one boundary layer thickness high and one body thickness long was used to investigate its effects on the corner separation vortex in the wake of the 1.5:1 elliptical nose body with a leading edge fillet of one boundary layer thickness high and two body thicknesses long. The results indicated a small decrease in the strength of the corner separation vortex, as indicated by the peak value of vorticity, at the 150 percent chord position, but the effects on the wake pattern were small.

The oil-film surface flow visualizations were conducted to define the extent of the three-dimensional separation and to give some indication of flow direction. The prominent features of the floor surface visualization for the 1.5:1 elliptical nose body include a singular separation point on the floor centerline upstream of the body leading edge, a line of ordinary separation emanating from this point. The floor flow visualization also gave some

indication of high wall shear stress region between the body leading edge and the separation line. It was observed that the line delineates the high shear stress region from the lower shear stress region wrapped around the body and merged with the separation line alongside the body. This line corresponded well with the z position of the primary horseshoe vortex center projected onto the floor. Another prominent feature was the "V" shaped line sprung from near the trailing edge. This line persisted into the wake, and corresponded well with the z location of the corner separation vortex center projected onto the floor. The body surface visualizations showed a separation point on the stagnation line near the intersection between the leading edge and the floor centerline. The floor surface flow visualizations of other bodies showed similar features with the exceptions of a closer separation point to the body leading edge and the absence of any clear separation line around the body.

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EFFECTIVE METHODS OF CONTROLLING A JUNCTION VORTEX SYSTEM IN AN INCOMPRESSIBLE, THREE-DIMENSIONAL, TURBULENT FLOW

APPENDICES A & B

by

Jaiwon Shin

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APPROVED:

F. J. Pierce, Chairman

C. L. Dancey

T. E. Diller

D. J. Nelson

G. W. Swift

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Blacksburg, Virginia

APPENDIX A

x-z Coordinates of Bodies

Table A.1 x-z Coordinates of the 1.5:1 Elliptical Nose, 4:1 Elliptical Nose, and 4:1 Wedge Elliptical Nose Bodies

1.5:1 Elliptical Nose Body		4:1 Elliptical Nose Body		4:1 Wedge Elliptical Nose Body	
x (in.)	z (in.)	x (in.)	z (in.)	x (in.)	z (in.)
0.00	0.0000	0.00	0.0000	0.00	0.0000
0.21	0.6102	0.56	0.6102	0.56	0.0782
0.42	0.8400	1.12	0.8400	1.12	0.2124
0.84	1.1200	2.24	1.1200	2.24	0.5482
1.26	1.2831	3.36	1.2831	3.36	0.9039
1.68	1.3717	4.48	1.3717	4.48	1.2164
1.89	1.3930	5.04	1.3930	5.04	1.3341
2.10	1.4004	5.60	1.4004	5.60	1.4004
2.80	1.3880	6.30	1.3880	6.30	1.3880
3.50	1.3540	7.00	1.3540	7.00	1.3540
4.20	1.3022	7.70	1.3022	7.70	1.3022
4.90	1.2353	8.40	1.2353	8.40	1.2353
5.60	1.1556	9.10	1.1556	9.10	1.1556
6.30	1.0648	9.80	1.0648	9.80	1.0648
7.00	0.9642	10.50	0.9642	10.50	0.9642
7.70	0.8546	11.20	0.8546	11.20	0.8546
8.40	0.7374	11.90	0.7374	11.90	0.7374
9.10	0.6121	12.60	0.6121	12.60	0.6121
9.80	0.4789	13.30	0.4789	13.30	0.4789
10.50	0.3378	14.00	0.3378	14.00	0.3378
11.20	0.1882	14.70	0.1882	14.70	0.1882
11.90	0.0294	15.40	0.0294	15.40	0.0294

APPENDIX B

Five-Hole Probe Data

In this appendix:

BETA = β ,

ALPHA = α ,

CPT = $C_{P,T}$,

CPS = $C_{P,S}$,

SPEED = $\bar{V} / \bar{V}_*$,

and U, V, and W are normalized with the speed at the wind tunnel throat. The estimated uncertainties are at 5 percent significance level (95 percent confidence intervals or 19 to 1 odds).

Table B.1 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.4±0.3	1.9±0.5	-0.73±0.01	-1.26±0.02	0.730±0.007	0.729±0.007	0.024±0.006	-0.030±0.004
4.7	2.4±0.3	1.0±0.5	-0.70±0.01	-1.26±0.02	0.748±0.007	0.747±0.007	0.014±0.006	-0.031±0.004
5.7	2.4±0.3	0.8±0.4	-0.67±0.01	-1.27±0.02	0.776±0.007	0.776±0.007	0.010±0.006	-0.032±0.004
6.7	2.3±0.3	0.5±0.4	-0.64±0.01	-1.26±0.02	0.790±0.007	0.789±0.007	0.007±0.006	-0.031±0.004
7.7	2.0±0.3	0.5±0.4	-0.62±0.01	-1.27±0.02	0.805±0.007	0.804±0.007	0.007±0.005	-0.029±0.004
8.7	2.0±0.3	0.4±0.4	-0.59±0.01	-1.27±0.02	0.821±0.007	0.821±0.007	0.005±0.005	-0.029±0.005
9.8	1.9±0.3	0.4±0.4	-0.57±0.01	-1.25±0.02	0.828±0.007	0.827±0.007	0.005±0.005	-0.027±0.005
10.8	1.9±0.3	0.4±0.4	-0.55±0.01	-1.26±0.02	0.841±0.007	0.840±0.007	0.005±0.005	-0.028±0.005
11.8	1.8±0.3	0.4±0.3	-0.54±0.01	-1.27±0.02	0.853±0.007	0.853±0.007	0.005±0.005	-0.027±0.005
12.8	1.8±0.3	0.4±0.3	-0.52±0.01	-1.26±0.02	0.859±0.007	0.859±0.007	0.005±0.005	-0.027±0.005
13.8	1.7±0.3	0.4±0.3	-0.51±0.01	-1.27±0.02	0.873±0.007	0.873±0.007	0.006±0.005	-0.025±0.005
16.4	1.6±0.3	0.4±0.3	-0.47±0.01	-1.26±0.02	0.892±0.006	0.891±0.006	0.006±0.005	-0.025±0.005
18.9	1.5±0.3	0.4±0.3	-0.44±0.01	-1.26±0.02	0.904±0.006	0.903±0.006	0.006±0.005	-0.023±0.005
21.4	1.3±0.3	0.4±0.3	-0.41±0.01	-1.26±0.02	0.921±0.006	0.920±0.006	0.007±0.005	-0.022±0.005
24.0	1.3±0.3	0.4±0.3	-0.39±0.01	-1.27±0.02	0.935±0.006	0.935±0.006	0.007±0.005	-0.021±0.005
26.5	1.2±0.3	0.5±0.3	-0.37±0.01	-1.26±0.02	0.947±0.006	0.947±0.006	0.007±0.005	-0.020±0.005
29.1	1.1±0.3	0.4±0.3	-0.34±0.01	-1.27±0.02	0.965±0.006	0.965±0.006	0.007±0.005	-0.019±0.005
31.6	1.1±0.3	0.4±0.3	-0.31±0.01	-1.27±0.02	0.983±0.006	0.983±0.006	0.007±0.004	-0.019±0.005
34.1	1.0±0.3	0.4±0.3	-0.29±0.01	-1.26±0.02	0.987±0.006	0.987±0.006	0.008±0.004	-0.018±0.005
36.7	1.0±0.3	0.4±0.3	-0.27±0.01	-1.28±0.02	1.005±0.007	1.005±0.007	0.008±0.004	-0.018±0.006
39.2	1.0±0.3	0.4±0.2	-0.24±0.01	-1.26±0.02	1.011±0.007	1.010±0.007	0.008±0.004	-0.017±0.006
44.3	0.9±0.3	0.4±0.2	-0.19±0.01	-1.26±0.02	1.033±0.007	1.032±0.007	0.008±0.004	-0.017±0.006
49.4	0.8±0.3	0.5±0.2	-0.16±0.01	-1.27±0.02	1.054±0.007	1.054±0.007	0.009±0.004	-0.015±0.006
54.5	0.8±0.3	0.5±0.2	-0.11±0.01	-1.26±0.02	1.071±0.007	1.071±0.007	0.010±0.004	-0.014±0.006
59.5	0.7±0.3	0.6±0.2	-0.08±0.01	-1.26±0.02	1.087±0.007	1.087±0.007	0.012±0.004	-0.014±0.006
64.6	0.7±0.3	0.6±0.2	-0.05±0.01	-1.26±0.02	1.101±0.007	1.101±0.007	0.012±0.004	-0.013±0.006
69.7	0.7±0.3	0.6±0.2	-0.03±0.01	-1.27±0.02	1.110±0.007	1.110±0.007	0.012±0.004	-0.014±0.006
74.8	0.7±0.3	0.6±0.2	-0.01±0.01	-1.26±0.02	1.117±0.007	1.117±0.007	0.013±0.004	-0.014±0.006
79.9	0.7±0.3	0.7±0.2	0.00±0.01	-1.25±0.02	1.121±0.007	1.120±0.007	0.014±0.004	-0.014±0.006
84.9	0.7±0.3	0.8±0.2	0.01±0.01	-1.26±0.02	1.125±0.007	1.125±0.007	0.015±0.004	-0.014±0.006
90.0	0.7±0.3	0.7±0.2	0.01±0.01	-1.26±0.02	1.126±0.007	1.126±0.007	0.014±0.004	-0.014±0.006
100.2	0.8±0.3	0.7±0.2	0.01±0.01	-1.26±0.02	1.127±0.007	1.126±0.007	0.014±0.004	-0.016±0.006
110.3	0.8±0.3	0.7±0.2	0.01±0.01	-1.26±0.02	1.127±0.007	1.126±0.007	0.013±0.004	-0.016±0.006
120.5	0.8±0.3	0.7±0.2	0.01±0.01	-1.26±0.02	1.127±0.007	1.126±0.007	0.015±0.004	-0.016±0.006
130.7	0.8±0.3	0.7±0.2	0.01±0.01	-1.26±0.02	1.126±0.007	1.126±0.007	0.014±0.004	-0.016±0.006
140.8	0.8±0.3	0.7±0.2	0.01±0.01	-1.26±0.02	1.125±0.007	1.125±0.007	0.014±0.004	-0.016±0.006

Table B.2 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.7±0.3	1.8±0.5	-0.71±0.01	-1.26±0.02	0.738±0.007	0.736±0.007	0.023±0.006	-0.047±0.004
4.7	3.7±0.3	1.2±0.4	-0.68±0.01	-1.26±0.02	0.762±0.007	0.760±0.007	0.015±0.006	-0.049±0.004
5.7	3.6±0.3	0.8±0.4	-0.65±0.01	-1.26±0.02	0.782±0.007	0.781±0.007	0.011±0.006	-0.049±0.004
6.7	3.5±0.3	0.5±0.4	-0.62±0.01	-1.26±0.02	0.801±0.007	0.799±0.007	0.007±0.006	-0.048±0.004
7.7	3.3±0.3	0.5±0.4	-0.60±0.01	-1.27±0.02	0.820±0.007	0.818±0.007	0.006±0.005	-0.048±0.005
8.7	3.2±0.3	0.4±0.4	-0.57±0.01	-1.26±0.02	0.829±0.007	0.827±0.007	0.006±0.005	-0.047±0.005
9.8	3.1±0.3	0.4±0.4	-0.56±0.01	-1.27±0.02	0.845±0.007	0.844±0.007	0.006±0.005	-0.046±0.005
10.8	3.0±0.3	0.4±0.4	-0.54±0.01	-1.26±0.02	0.851±0.007	0.850±0.007	0.005±0.005	-0.044±0.005
11.8	2.9±0.3	0.3±0.3	-0.52±0.01	-1.28±0.02	0.869±0.007	0.868±0.007	0.005±0.005	-0.045±0.005
12.8	2.8±0.3	0.3±0.3	-0.51±0.01	-1.27±0.02	0.871±0.007	0.870±0.007	0.005±0.005	-0.043±0.005
13.8	2.7±0.3	0.3±0.3	-0.49±0.01	-1.27±0.02	0.881±0.007	0.880±0.007	0.005±0.005	-0.042±0.005
16.4	2.6±0.3	0.3±0.3	-0.46±0.01	-1.27±0.02	0.900±0.007	0.899±0.007	0.005±0.005	-0.041±0.005
18.9	2.4±0.3	0.3±0.3	-0.43±0.01	-1.27±0.02	0.915±0.007	0.915±0.006	0.005±0.005	-0.038±0.005
21.4	2.2±0.3	0.4±0.3	-0.40±0.01	-1.26±0.02	0.926±0.006	0.925±0.006	0.006±0.005	-0.036±0.005
24.0	2.2±0.3	0.4±0.3	-0.38±0.01	-1.27±0.02	0.945±0.006	0.944±0.006	0.006±0.005	-0.036±0.005
26.5	2.0±0.3	0.4±0.3	-0.35±0.01	-1.26±0.02	0.956±0.006	0.955±0.006	0.006±0.005	-0.034±0.005
29.1	1.9±0.3	0.4±0.3	-0.33±0.01	-1.27±0.02	0.970±0.007	0.970±0.006	0.007±0.005	-0.032±0.005
31.6	1.8±0.3	0.4±0.3	-0.30±0.01	-1.26±0.02	0.982±0.007	0.982±0.007	0.007±0.005	-0.031±0.005
34.1	1.7±0.3	0.4±0.3	-0.28±0.01	-1.27±0.02	0.991±0.007	0.990±0.007	0.007±0.004	-0.030±0.005
36.7	1.7±0.3	0.4±0.3	-0.26±0.01	-1.26±0.02	1.003±0.007	1.003±0.007	0.007±0.004	-0.030±0.006
39.2	1.6±0.3	0.4±0.2	-0.23±0.01	-1.26±0.02	1.014±0.007	1.013±0.007	0.008±0.004	-0.029±0.006
44.3	1.5±0.3	0.4±0.2	-0.20±0.01	-1.27±0.02	1.033±0.007	1.033±0.007	0.008±0.004	-0.026±0.006
49.4	1.4±0.3	0.4±0.2	-0.15±0.01	-1.26±0.02	1.053±0.007	1.053±0.007	0.008±0.004	-0.025±0.006
54.5	1.3±0.3	0.5±0.2	-0.11±0.01	-1.26±0.02	1.072±0.007	1.071±0.007	0.009±0.004	-0.025±0.006
59.5	1.3±0.3	0.6±0.2	-0.08±0.01	-1.26±0.02	1.088±0.007	1.088±0.007	0.012±0.004	-0.024±0.006
64.6	1.3±0.3	0.6±0.2	-0.05±0.01	-1.26±0.02	1.103±0.007	1.102±0.007	0.012±0.004	-0.024±0.006
69.7	1.3±0.3	0.6±0.2	-0.02±0.01	-1.26±0.02	1.113±0.007	1.112±0.007	0.013±0.004	-0.025±0.006
74.8	1.3±0.3	0.6±0.2	-0.01±0.01	-1.26±0.02	1.118±0.007	1.118±0.007	0.012±0.004	-0.025±0.006
79.9	1.3±0.3	0.6±0.2	0.00±0.01	-1.26±0.02	1.122±0.007	1.122±0.007	0.012±0.004	-0.025±0.006
84.9	1.2±0.3	0.6±0.2	0.01±0.01	-1.26±0.02	1.125±0.007	1.124±0.007	0.013±0.004	-0.024±0.006
90.0	1.2±0.3	0.6±0.2	0.01±0.01	-1.26±0.02	1.125±0.007	1.125±0.007	0.013±0.004	-0.024±0.006
100.2	1.2±0.3	0.7±0.2	0.01±0.01	-1.26±0.02	1.126±0.007	1.126±0.007	0.013±0.004	-0.024±0.006
110.3	1.2±0.3	0.6±0.2	0.01±0.01	-1.25±0.02	1.125±0.007	1.124±0.007	0.013±0.004	-0.024±0.006
120.5	1.3±0.3	0.6±0.2	0.01±0.01	-1.26±0.02	1.124±0.007	1.124±0.007	0.012±0.004	-0.025±0.006
130.7	1.3±0.3	0.6±0.2	0.01±0.01	-1.25±0.02	1.124±0.007	1.123±0.007	0.013±0.004	-0.025±0.006
140.8	1.3±0.3	0.7±0.2	0.01±0.01	-1.26±0.02	1.125±0.007	1.124±0.007	0.013±0.004	-0.025±0.006

Table B.3 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.7±0.3	1.8±0.4	-0.71±0.01	-1.29±0.02	0.761±0.007	0.758±0.007	0.024±0.006	-0.063±0.004
4.7	4.6±0.3	1.2±0.4	-0.67±0.01	-1.28±0.02	0.782±0.007	0.779±0.007	0.017±0.006	-0.063±0.004
5.7	4.4±0.3	0.8±0.4	-0.65±0.01	-1.29±0.02	0.804±0.007	0.801±0.007	0.012±0.006	-0.062±0.004
6.7	4.2±0.3	0.6±0.4	-0.62±0.01	-1.29±0.02	0.818±0.007	0.816±0.007	0.009±0.005	-0.060±0.005
7.7	4.0±0.3	0.4±0.4	-0.61±0.01	-1.29±0.02	0.829±0.007	0.827±0.007	0.006±0.005	-0.058±0.005
8.7	3.9±0.3	0.4±0.4	-0.58±0.01	-1.30±0.02	0.845±0.007	0.843±0.007	0.006±0.005	-0.057±0.005
9.8	3.6±0.3	0.4±0.3	-0.56±0.01	-1.30±0.02	0.859±0.007	0.857±0.007	0.006±0.005	-0.055±0.005
10.8	3.5±0.3	0.4±0.3	-0.54±0.01	-1.30±0.02	0.871±0.007	0.869±0.007	0.005±0.005	-0.053±0.005
11.8	3.4±0.3	0.4±0.3	-0.52±0.01	-1.29±0.02	0.878±0.007	0.876±0.007	0.006±0.005	-0.053±0.005
12.8	3.4±0.3	0.4±0.3	-0.51±0.01	-1.29±0.02	0.885±0.007	0.883±0.007	0.005±0.005	-0.052±0.005
13.8	3.3±0.3	0.4±0.3	-0.48±0.01	-1.29±0.02	0.896±0.007	0.895±0.006	0.006±0.005	-0.051±0.005
16.4	3.0±0.3	0.4±0.3	-0.45±0.01	-1.29±0.02	0.915±0.006	0.914±0.006	0.006±0.005	-0.048±0.005
18.9	2.9±0.3	0.4±0.3	-0.43±0.01	-1.30±0.02	0.931±0.006	0.930±0.006	0.006±0.005	-0.046±0.005
21.4	2.7±0.3	0.4±0.3	-0.39±0.01	-1.29±0.02	0.946±0.006	0.945±0.006	0.006±0.005	-0.045±0.005
24.0	2.6±0.3	0.4±0.3	-0.37±0.01	-1.29±0.02	0.959±0.006	0.958±0.006	0.006±0.005	-0.043±0.005
26.5	2.4±0.3	0.4±0.3	-0.34±0.01	-1.28±0.02	0.971±0.006	0.970±0.006	0.007±0.005	-0.041±0.005
29.1	2.3±0.3	0.4±0.3	-0.32±0.01	-1.29±0.02	0.986±0.007	0.985±0.006	0.007±0.004	-0.040±0.005
31.6	2.2±0.3	0.4±0.3	-0.30±0.01	-1.30±0.02	0.998±0.007	0.998±0.007	0.007±0.004	-0.038±0.006
34.1	2.1±0.3	0.4±0.2	-0.28±0.01	-1.30±0.02	1.011±0.007	1.010±0.007	0.007±0.004	-0.037±0.006
36.7	2.0±0.3	0.4±0.2	-0.25±0.01	-1.29±0.02	1.019±0.007	1.019±0.007	0.008±0.004	-0.036±0.006
39.2	2.0±0.3	0.4±0.2	-0.23±0.01	-1.29±0.02	1.032±0.007	1.031±0.007	0.008±0.004	-0.036±0.006
44.3	1.8±0.3	0.4±0.2	-0.18±0.01	-1.27±0.02	1.047±0.007	1.046±0.007	0.008±0.004	-0.032±0.006
49.4	1.7±0.3	0.5±0.2	-0.14±0.01	-1.28±0.02	1.071±0.007	1.070±0.007	0.009±0.004	-0.031±0.006
54.5	1.6±0.3	0.5±0.2	-0.11±0.01	-1.29±0.02	1.086±0.007	1.085±0.007	0.009±0.004	-0.029±0.006
59.5	1.5±0.3	0.6±0.2	-0.08±0.01	-1.29±0.02	1.101±0.007	1.101±0.007	0.012±0.004	-0.029±0.006
64.6	1.4±0.3	0.6±0.2	-0.05±0.01	-1.29±0.02	1.115±0.007	1.115±0.007	0.012±0.004	-0.028±0.006
69.7	1.4±0.3	0.6±0.2	-0.03±0.01	-1.30±0.02	1.127±0.007	1.127±0.007	0.013±0.004	-0.028±0.006
74.8	1.3±0.3	0.6±0.2	-0.01±0.01	-1.29±0.02	1.131±0.007	1.130±0.007	0.012±0.004	-0.026±0.006
79.9	1.3±0.3	0.6±0.2	0.00±0.01	-1.29±0.02	1.136±0.007	1.136±0.007	0.012±0.004	-0.026±0.006
84.9	1.4±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.139±0.007	1.138±0.007	0.013±0.004	-0.028±0.006
90.0	1.4±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.139±0.007	1.139±0.007	0.012±0.004	-0.029±0.006
100.2	1.4±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.140±0.007	1.139±0.007	0.012±0.004	-0.029±0.006
110.3	1.5±0.3	0.7±0.2	0.01±0.01	-1.29±0.02	1.139±0.007	1.139±0.007	0.015±0.004	-0.030±0.006
120.5	1.6±0.3	0.7±0.2	0.01±0.01	-1.29±0.02	1.140±0.007	1.139±0.007	0.015±0.004	-0.031±0.006
130.7	1.6±0.3	0.8±0.2	0.01±0.01	-1.29±0.02	1.139±0.007	1.138±0.007	0.016±0.004	-0.031±0.006
140.8	1.5±0.3	0.7±0.2	0.01±0.01	-1.29±0.02	1.138±0.007	1.138±0.007	0.014±0.004	-0.030±0.006

Table B.4 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.5±0.3	1.9±0.4	-0.72±0.01	-1.32±0.02	0.770±0.007	0.765±0.007	0.026±0.006	-0.087±0.004
4.7	6.4±0.3	1.2±0.4	-0.69±0.01	-1.33±0.02	0.797±0.007	0.792±0.007	0.017±0.006	-0.089±0.004
5.7	6.3±0.3	0.9±0.4	-0.67±0.01	-1.32±0.02	0.808±0.007	0.803±0.007	0.012±0.005	-0.088±0.004
6.7	6.0±0.3	0.5±0.4	-0.65±0.01	-1.33±0.02	0.829±0.007	0.824±0.007	0.007±0.005	-0.087±0.005
7.7	5.9±0.3	0.5±0.4	-0.62±0.01	-1.32±0.02	0.837±0.007	0.832±0.007	0.007±0.005	-0.086±0.005
8.7	5.7±0.3	0.5±0.4	-0.60±0.01	-1.32±0.02	0.853±0.007	0.848±0.007	0.007±0.005	-0.084±0.005
9.8	5.5±0.3	0.4±0.3	-0.58±0.01	-1.32±0.02	0.861±0.007	0.857±0.007	0.007±0.005	-0.083±0.005
10.8	5.4±0.3	0.4±0.3	-0.56±0.01	-1.33±0.02	0.875±0.007	0.871±0.007	0.007±0.005	-0.082±0.005
11.8	5.2±0.3	0.4±0.3	-0.54±0.01	-1.32±0.02	0.881±0.007	0.877±0.007	0.007±0.005	-0.080±0.005
12.8	5.1±0.3	0.4±0.3	-0.53±0.01	-1.33±0.02	0.891±0.007	0.887±0.006	0.007±0.005	-0.079±0.005
13.8	4.9±0.3	0.4±0.3	-0.51±0.01	-1.33±0.02	0.902±0.006	0.899±0.006	0.007±0.005	-0.077±0.005
16.4	4.5±0.3	0.5±0.3	-0.47±0.01	-1.32±0.02	0.920±0.006	0.917±0.006	0.007±0.005	-0.072±0.005
18.9	4.3±0.3	0.5±0.3	-0.44±0.01	-1.32±0.02	0.938±0.006	0.935±0.006	0.008±0.005	-0.070±0.005
21.4	4.0±0.3	0.6±0.3	-0.42±0.01	-1.33±0.02	0.952±0.006	0.949±0.006	0.010±0.005	-0.066±0.005
24.0	3.8±0.3	0.5±0.3	-0.39±0.01	-1.32±0.02	0.965±0.006	0.963±0.006	0.008±0.005	-0.064±0.005
26.5	3.6±0.3	0.6±0.3	-0.37±0.01	-1.32±0.02	0.976±0.006	0.974±0.006	0.010±0.005	-0.062±0.005
29.1	3.5±0.3	0.5±0.3	-0.34±0.01	-1.32±0.02	0.990±0.007	0.988±0.006	0.009±0.004	-0.061±0.005
31.6	3.4±0.3	0.6±0.3	-0.32±0.01	-1.32±0.02	1.000±0.007	0.999±0.007	0.010±0.004	-0.059±0.006
34.1	3.2±0.3	0.5±0.2	-0.29±0.01	-1.31±0.02	1.013±0.007	1.012±0.007	0.009±0.004	-0.057±0.006
36.7	3.1±0.3	0.5±0.2	-0.26±0.01	-1.32±0.02	1.026±0.007	1.024±0.007	0.009±0.004	-0.056±0.006
39.2	3.0±0.3	0.5±0.2	-0.24±0.01	-1.32±0.02	1.040±0.007	1.039±0.007	0.009±0.004	-0.055±0.006
44.3	2.9±0.3	0.5±0.2	-0.20±0.01	-1.32±0.02	1.057±0.007	1.056±0.007	0.010±0.004	-0.053±0.006
49.4	2.8±0.3	0.5±0.2	-0.16±0.01	-1.33±0.02	1.082±0.007	1.081±0.007	0.010±0.004	-0.052±0.006
54.5	2.6±0.3	0.5±0.2	-0.12±0.01	-1.32±0.02	1.097±0.007	1.095±0.007	0.010±0.004	-0.049±0.006
59.5	2.5±0.3	0.6±0.2	-0.10±0.01	-1.34±0.02	1.113±0.007	1.112±0.007	0.011±0.004	-0.049±0.006
64.6	2.4±0.3	0.6±0.2	-0.06±0.01	-1.32±0.02	1.124±0.007	1.123±0.007	0.012±0.004	-0.047±0.006
69.7	2.4±0.3	0.6±0.2	-0.03±0.01	-1.33±0.02	1.137±0.007	1.136±0.007	0.012±0.004	-0.048±0.006
74.8	2.4±0.3	0.6±0.2	-0.02±0.01	-1.32±0.02	1.143±0.007	1.142±0.007	0.013±0.004	-0.047±0.006
79.9	2.4±0.3	0.6±0.2	0.00±0.01	-1.32±0.02	1.149±0.007	1.148±0.007	0.013±0.004	-0.047±0.006
84.9	2.4±0.3	0.7±0.2	0.01±0.01	-1.32±0.02	1.152±0.007	1.151±0.007	0.015±0.004	-0.048±0.006
90.0	2.5±0.3	0.7±0.2	0.01±0.01	-1.33±0.02	1.154±0.007	1.153±0.007	0.015±0.004	-0.050±0.006
100.2	2.5±0.3	0.8±0.2	0.01±0.01	-1.32±0.02	1.155±0.007	1.153±0.007	0.016±0.004	-0.050±0.006
110.3	2.6±0.3	0.8±0.2	0.01±0.01	-1.32±0.02	1.154±0.007	1.153±0.007	0.016±0.004	-0.052±0.006
120.5	2.6±0.3	0.8±0.2	0.01±0.01	-1.32±0.02	1.153±0.007	1.152±0.007	0.017±0.004	-0.053±0.006
130.7	2.5±0.3	1.0±0.2	0.01±0.01	-1.32±0.02	1.152±0.007	1.151±0.007	0.020±0.004	-0.051±0.006
140.8	2.6±0.3	0.9±0.2	0.01±0.01	-1.32±0.02	1.152±0.007	1.151±0.007	0.019±0.004	-0.053±0.006

Table B.5 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-114 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	9.7±0.3	2.7±0.5	-0.78±0.01	-1.34±0.02	0.750±0.007	0.738±0.007	0.035±0.006	-0.126±0.004
4.7	9.1±0.3	2.1±0.4	-0.76±0.01	-1.34±0.02	0.763±0.007	0.753±0.007	0.028±0.006	-0.121±0.004
5.7	8.4±0.3	1.7±0.4	-0.74±0.01	-1.35±0.02	0.776±0.007	0.768±0.007	0.023±0.006	-0.113±0.004
6.7	7.6±0.3	1.5±0.4	-0.72±0.01	-1.34±0.02	0.787±0.007	0.779±0.007	0.021±0.006	-0.105±0.004
7.7	7.2±0.3	1.3±0.4	-0.71±0.01	-1.35±0.02	0.802±0.007	0.796±0.007	0.018±0.006	-0.100±0.004
8.7	6.7±0.3	1.3±0.4	-0.69±0.01	-1.35±0.02	0.815±0.007	0.809±0.007	0.018±0.005	-0.095±0.005
9.8	6.3±0.3	1.1±0.4	-0.65±0.01	-1.34±0.02	0.833±0.007	0.828±0.007	0.016±0.005	-0.092±0.005
10.8	6.1±0.3	1.0±0.4	-0.63±0.01	-1.35±0.02	0.851±0.007	0.846±0.007	0.015±0.005	-0.090±0.005
11.8	5.7±0.3	0.9±0.3	-0.61±0.01	-1.36±0.02	0.868±0.007	0.863±0.007	0.013±0.005	-0.087±0.005
12.8	5.6±0.3	0.9±0.3	-0.58±0.01	-1.35±0.02	0.875±0.007	0.871±0.007	0.014±0.005	-0.086±0.005
13.8	5.4±0.3	0.8±0.3	-0.56±0.01	-1.35±0.02	0.890±0.007	0.886±0.006	0.012±0.005	-0.084±0.005
16.4	5.1±0.3	0.8±0.3	-0.50±0.01	-1.34±0.02	0.913±0.006	0.909±0.006	0.012±0.005	-0.081±0.005
18.9	4.8±0.3	0.7±0.3	-0.46±0.01	-1.35±0.02	0.939±0.006	0.936±0.006	0.012±0.005	-0.079±0.005
21.4	4.6±0.3	0.6±0.3	-0.44±0.01	-1.35±0.02	0.955±0.006	0.952±0.006	0.010±0.005	-0.076±0.005
24.0	4.4±0.3	0.7±0.3	-0.40±0.01	-1.35±0.02	0.972±0.007	0.969±0.006	0.012±0.005	-0.075±0.005
26.5	4.3±0.3	0.6±0.3	-0.38±0.01	-1.34±0.02	0.983±0.007	0.980±0.007	0.011±0.005	-0.073±0.005
29.1	4.1±0.3	0.6±0.3	-0.35±0.01	-1.34±0.02	0.995±0.007	0.992±0.007	0.010±0.004	-0.071±0.005
31.6	3.9±0.3	0.5±0.2	-0.33±0.01	-1.35±0.02	1.011±0.007	1.009±0.007	0.009±0.004	-0.069±0.006
34.1	3.8±0.3	0.6±0.2	-0.30±0.01	-1.35±0.02	1.021±0.007	1.018±0.007	0.011±0.004	-0.067±0.006
36.7	3.7±0.3	0.5±0.2	-0.27±0.01	-1.34±0.02	1.035±0.007	1.032±0.007	0.009±0.004	-0.066±0.006
39.2	3.6±0.3	0.5±0.2	-0.25±0.01	-1.34±0.02	1.043±0.007	1.041±0.007	0.009±0.004	-0.065±0.006
44.3	3.4±0.3	0.5±0.2	-0.20±0.01	-1.34±0.02	1.068±0.007	1.066±0.007	0.009±0.004	-0.064±0.006
49.4	3.2±0.3	0.5±0.2	-0.16±0.01	-1.35±0.02	1.087±0.007	1.086±0.007	0.010±0.004	-0.062±0.006
54.5	3.1±0.3	0.5±0.2	-0.13±0.01	-1.35±0.02	1.103±0.007	1.101±0.007	0.009±0.004	-0.060±0.006
59.5	3.0±0.3	0.5±0.2	-0.10±0.01	-1.35±0.02	1.121±0.007	1.119±0.007	0.010±0.004	-0.058±0.006
64.6	2.9±0.3	0.5±0.2	-0.06±0.01	-1.34±0.02	1.132±0.007	1.130±0.007	0.011±0.004	-0.058±0.006
69.7	2.9±0.3	0.6±0.2	-0.03±0.01	-1.34±0.02	1.144±0.007	1.143±0.007	0.012±0.004	-0.058±0.006
74.8	2.9±0.3	0.6±0.2	-0.02±0.01	-1.35±0.02	1.155±0.007	1.154±0.007	0.013±0.004	-0.058±0.006
79.9	2.9±0.3	0.6±0.2	-0.01±0.01	-1.35±0.02	1.160±0.007	1.158±0.007	0.013±0.004	-0.059±0.006
84.9	2.9±0.3	0.7±0.2	0.00±0.01	-1.35±0.02	1.162±0.007	1.160±0.007	0.013±0.004	-0.059±0.006
90.0	3.0±0.3	0.8±0.2	0.01±0.01	-1.35±0.02	1.164±0.007	1.162±0.007	0.016±0.004	-0.061±0.006
100.2	3.0±0.3	0.8±0.2	0.01±0.01	-1.35±0.02	1.166±0.007	1.164±0.007	0.016±0.004	-0.062±0.006
110.3	3.2±0.3	0.9±0.2	0.01±0.01	-1.35±0.02	1.166±0.007	1.164±0.007	0.018±0.004	-0.065±0.006
120.5	3.2±0.3	1.0±0.2	0.01±0.01	-1.35±0.02	1.166±0.007	1.164±0.007	0.020±0.004	-0.065±0.006
130.7	3.2±0.3	1.0±0.2	0.01±0.01	-1.35±0.02	1.165±0.007	1.163±0.007	0.021±0.004	-0.065±0.006
140.8	3.1±0.3	1.1±0.2	0.01±0.01	-1.35±0.02	1.164±0.007	1.162±0.007	0.022±0.004	-0.064±0.006

Table B.6 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-108 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	11.0±0.3	2.1±0.4	-0.72±0.01	-1.33±0.02	0.784±0.007	0.769±0.007	0.029±0.006	-0.149±0.004
4.7	10.3±0.3	1.6±0.4	-0.71±0.01	-1.34±0.02	0.799±0.007	0.785±0.007	0.022±0.006	-0.143±0.004
5.7	9.6±0.3	1.2±0.4	-0.70±0.01	-1.35±0.02	0.805±0.007	0.794±0.007	0.017±0.006	-0.134±0.005
6.7	8.8±0.3	0.8±0.4	-0.68±0.01	-1.34±0.02	0.816±0.007	0.807±0.007	0.012±0.005	-0.125±0.005
7.7	8.1±0.3	0.7±0.4	-0.67±0.01	-1.35±0.02	0.827±0.007	0.818±0.007	0.011±0.005	-0.117±0.005
8.7	7.6±0.3	0.6±0.4	-0.65±0.01	-1.35±0.02	0.835±0.007	0.828±0.007	0.009±0.005	-0.111±0.005
9.8	7.1±0.3	0.6±0.4	-0.63±0.01	-1.35±0.02	0.846±0.007	0.840±0.007	0.008±0.005	-0.105±0.005
10.8	6.6±0.3	0.6±0.3	-0.61±0.01	-1.34±0.02	0.856±0.007	0.851±0.007	0.008±0.005	-0.098±0.005
11.8	6.3±0.3	0.5±0.3	-0.59±0.01	-1.36±0.02	0.878±0.007	0.873±0.007	0.007±0.005	-0.097±0.005
12.8	6.0±0.3	0.5±0.3	-0.56±0.01	-1.35±0.02	0.887±0.007	0.882±0.007	0.007±0.005	-0.093±0.005
13.8	5.8±0.3	0.6±0.3	-0.55±0.01	-1.36±0.02	0.902±0.007	0.897±0.007	0.009±0.005	-0.091±0.005
16.4	5.3±0.3	0.6±0.3	-0.50±0.01	-1.35±0.02	0.922±0.007	0.918±0.006	0.010±0.005	-0.085±0.005
18.9	5.1±0.3	0.5±0.3	-0.45±0.01	-1.34±0.02	0.942±0.007	0.939±0.006	0.009±0.005	-0.084±0.005
21.4	4.8±0.3	0.6±0.3	-0.43±0.01	-1.36±0.02	0.963±0.007	0.959±0.006	0.010±0.005	-0.081±0.005
24.0	4.7±0.3	0.6±0.3	-0.40±0.01	-1.36±0.02	0.981±0.007	0.978±0.007	0.010±0.005	-0.080±0.005
26.5	4.5±0.3	0.5±0.3	-0.38±0.01	-1.37±0.02	0.992±0.007	0.989±0.007	0.009±0.004	-0.077±0.005
29.1	4.3±0.3	0.5±0.3	-0.35±0.01	-1.36±0.02	1.007±0.007	1.005±0.007	0.009±0.004	-0.076±0.006
31.6	4.1±0.3	0.5±0.2	-0.32±0.01	-1.35±0.02	1.013±0.007	1.011±0.007	0.009±0.004	-0.073±0.006
34.1	4.0±0.3	0.5±0.2	-0.29±0.01	-1.34±0.02	1.026±0.007	1.024±0.007	0.008±0.004	-0.072±0.006
36.7	3.9±0.3	0.5±0.2	-0.27±0.01	-1.36±0.02	1.041±0.007	1.038±0.007	0.008±0.004	-0.070±0.006
39.2	3.8±0.3	0.5±0.2	-0.25±0.01	-1.35±0.02	1.050±0.007	1.048±0.007	0.008±0.004	-0.069±0.006
44.3	3.6±0.3	0.4±0.2	-0.22±0.01	-1.36±0.02	1.072±0.007	1.069±0.007	0.008±0.004	-0.067±0.006
49.4	3.5±0.3	0.4±0.2	-0.17±0.01	-1.35±0.02	1.089±0.007	1.087±0.007	0.008±0.004	-0.066±0.006
54.5	3.3±0.3	0.5±0.2	-0.13±0.01	-1.35±0.02	1.108±0.007	1.106±0.007	0.009±0.004	-0.064±0.006
59.5	3.2±0.3	0.4±0.2	-0.10±0.01	-1.36±0.02	1.123±0.007	1.121±0.007	0.009±0.004	-0.063±0.006
64.6	3.1±0.3	0.5±0.2	-0.06±0.01	-1.36±0.02	1.139±0.007	1.137±0.007	0.009±0.004	-0.062±0.006
69.7	3.2±0.3	0.6±0.2	-0.04±0.01	-1.36±0.02	1.149±0.007	1.147±0.007	0.011±0.004	-0.064±0.006
74.8	3.1±0.3	0.6±0.2	-0.02±0.01	-1.36±0.02	1.157±0.007	1.155±0.007	0.012±0.004	-0.063±0.006
79.9	3.2±0.3	0.6±0.2	0.00±0.01	-1.35±0.02	1.162±0.007	1.160±0.007	0.012±0.004	-0.064±0.006
84.9	3.2±0.3	0.6±0.2	0.00±0.01	-1.36±0.02	1.167±0.007	1.165±0.007	0.013±0.004	-0.065±0.006
90.0	3.2±0.3	0.6±0.2	0.01±0.01	-1.36±0.02	1.168±0.007	1.166±0.007	0.012±0.004	-0.066±0.006
100.2	3.3±0.3	0.7±0.2	0.01±0.01	-1.36±0.02	1.170±0.007	1.168±0.007	0.014±0.004	-0.068±0.006
110.3	3.4±0.3	0.8±0.2	0.01±0.01	-1.36±0.02	1.170±0.007	1.168±0.007	0.016±0.004	-0.070±0.006
120.5	3.5±0.3	0.8±0.2	0.01±0.01	-1.36±0.02	1.169±0.007	1.167±0.007	0.017±0.004	-0.071±0.006
130.7	3.4±0.3	1.0±0.2	0.01±0.01	-1.36±0.02	1.169±0.007	1.166±0.007	0.019±0.004	-0.070±0.006
140.8	3.4±0.3	1.2±0.2	0.01±0.01	-1.35±0.02	1.168±0.007	1.166±0.007	0.024±0.004	-0.069±0.006

Table B.7 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	11.5±0.3	2.0±0.4	-0.70±0.01	-1.36±0.02	0.814±0.007	0.797±0.007	0.028±0.006	-0.163±0.005
4.7	11.0±0.3	1.2±0.4	-0.67±0.01	-1.35±0.02	0.826±0.007	0.810±0.007	0.018±0.005	-0.158±0.005
5.7	10.4±0.3	0.8±0.4	-0.65±0.01	-1.35±0.02	0.840±0.007	0.826±0.007	0.012±0.005	-0.152±0.005
6.7	9.7±0.3	0.6±0.4	-0.64±0.01	-1.36±0.02	0.852±0.007	0.840±0.007	0.009±0.005	-0.144±0.005
7.7	9.1±0.3	0.4±0.3	-0.62±0.01	-1.36±0.02	0.861±0.007	0.850±0.007	0.007±0.005	-0.137±0.005
8.7	8.6±0.3	0.4±0.3	-0.60±0.01	-1.36±0.02	0.873±0.007	0.863±0.007	0.007±0.005	-0.130±0.005
9.8	8.1±0.3	0.4±0.3	-0.59±0.01	-1.36±0.02	0.880±0.007	0.871±0.007	0.005±0.005	-0.124±0.005
10.8	7.7±0.3	0.4±0.3	-0.57±0.01	-1.36±0.02	0.889±0.007	0.881±0.007	0.006±0.005	-0.119±0.005
11.8	7.2±0.3	0.4±0.3	-0.56±0.01	-1.37±0.02	0.900±0.007	0.893±0.007	0.006±0.005	-0.113±0.005
12.8	6.9±0.3	0.4±0.3	-0.54±0.01	-1.36±0.02	0.907±0.007	0.900±0.007	0.006±0.005	-0.109±0.005
13.8	6.7±0.3	0.4±0.3	-0.52±0.01	-1.36±0.02	0.915±0.007	0.909±0.007	0.006±0.005	-0.106±0.005
16.4	6.1±0.3	0.4±0.3	-0.49±0.01	-1.37±0.02	0.936±0.007	0.930±0.007	0.007±0.005	-0.100±0.005
18.9	5.7±0.3	0.5±0.3	-0.45±0.01	-1.37±0.02	0.956±0.007	0.952±0.007	0.007±0.005	-0.095±0.005
21.4	5.4±0.3	0.5±0.3	-0.42±0.01	-1.36±0.02	0.967±0.007	0.963±0.007	0.008±0.005	-0.090±0.005
24.0	5.2±0.3	0.5±0.3	-0.40±0.01	-1.37±0.02	0.985±0.007	0.981±0.007	0.008±0.005	-0.089±0.005
26.5	4.9±0.3	0.5±0.3	-0.37±0.01	-1.36±0.02	0.994±0.007	0.990±0.007	0.008±0.004	-0.085±0.005
29.1	4.8±0.3	0.5±0.3	-0.35±0.01	-1.36±0.02	1.007±0.007	1.003±0.007	0.009±0.004	-0.084±0.006
31.6	4.6±0.3	0.5±0.2	-0.32±0.01	-1.36±0.02	1.020±0.007	1.017±0.007	0.008±0.004	-0.082±0.006
34.1	4.5±0.3	0.5±0.2	-0.31±0.01	-1.36±0.02	1.026±0.007	1.022±0.007	0.008±0.004	-0.080±0.006
36.7	4.4±0.3	0.4±0.2	-0.28±0.01	-1.37±0.02	1.045±0.007	1.042±0.007	0.008±0.004	-0.080±0.006
39.2	4.2±0.3	0.4±0.2	-0.24±0.01	-1.35±0.02	1.054±0.007	1.051±0.007	0.008±0.004	-0.078±0.006
44.3	4.0±0.3	0.4±0.2	-0.21±0.01	-1.37±0.02	1.075±0.007	1.073±0.007	0.008±0.004	-0.075±0.006
49.4	3.9±0.3	0.4±0.2	-0.17±0.01	-1.37±0.02	1.094±0.007	1.092±0.007	0.008±0.004	-0.075±0.006
54.5	3.7±0.3	0.4±0.2	-0.13±0.01	-1.36±0.02	1.109±0.007	1.106±0.007	0.008±0.004	-0.071±0.006
59.5	3.7±0.3	0.4±0.2	-0.10±0.01	-1.37±0.02	1.127±0.007	1.124±0.007	0.008±0.004	-0.072±0.006
64.6	3.6±0.3	0.4±0.2	-0.06±0.01	-1.36±0.02	1.142±0.007	1.140±0.007	0.009±0.004	-0.072±0.006
69.7	3.6±0.3	0.4±0.2	-0.03±0.01	-1.36±0.02	1.153±0.007	1.151±0.007	0.008±0.004	-0.072±0.006
74.8	3.6±0.3	0.4±0.2	-0.02±0.01	-1.36±0.02	1.160±0.007	1.157±0.007	0.009±0.004	-0.073±0.006
79.9	3.6±0.3	0.5±0.2	-0.01±0.01	-1.37±0.02	1.168±0.007	1.165±0.007	0.010±0.004	-0.074±0.006
84.9	3.7±0.3	0.6±0.2	0.00±0.01	-1.37±0.02	1.171±0.007	1.168±0.007	0.011±0.004	-0.075±0.006
90.0	3.7±0.3	0.6±0.2	0.01±0.01	-1.37±0.02	1.173±0.007	1.170±0.007	0.012±0.004	-0.076±0.006
100.2	3.8±0.3	0.6±0.2	0.01±0.01	-1.37±0.02	1.174±0.007	1.172±0.007	0.013±0.004	-0.079±0.006
110.3	3.9±0.3	0.8±0.2	0.01±0.01	-1.37±0.02	1.175±0.007	1.172±0.007	0.016±0.004	-0.080±0.006
120.5	3.9±0.3	0.8±0.2	0.01±0.01	-1.37±0.02	1.174±0.007	1.171±0.007	0.017±0.004	-0.081±0.006
130.7	3.9±0.3	1.0±0.2	0.01±0.01	-1.37±0.02	1.173±0.007	1.170±0.007	0.019±0.004	-0.081±0.006
140.8	3.9±0.3	1.1±0.2	0.01±0.01	-1.36±0.02	1.172±0.007	1.169±0.007	0.022±0.004	-0.079±0.006

Table B.8 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-95 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	12.1±0.3	2.3±0.4	-0.70±0.01	-1.37±0.02	0.821±0.007	0.802±0.007	0.033±0.005	-0.171±0.005
4.7	11.4±0.3	1.5±0.4	-0.67±0.01	-1.37±0.02	0.837±0.007	0.820±0.006	0.022±0.005	-0.165±0.005
5.7	10.8±0.3	1.2±0.4	-0.64±0.01	-1.36±0.02	0.849±0.007	0.834±0.006	0.017±0.005	-0.159±0.005
6.7	10.0±0.3	0.9±0.3	-0.63±0.01	-1.38±0.02	0.863±0.007	0.850±0.006	0.014±0.005	-0.151±0.005
7.7	9.5±0.3	0.8±0.3	-0.61±0.01	-1.37±0.02	0.874±0.007	0.862±0.006	0.012±0.005	-0.144±0.005
8.7	9.0±0.3	0.8±0.3	-0.58±0.01	-1.37±0.02	0.887±0.006	0.876±0.006	0.012±0.005	-0.139±0.005
9.8	8.5±0.3	0.7±0.3	-0.57±0.01	-1.37±0.02	0.893±0.006	0.883±0.006	0.011±0.005	-0.132±0.005
10.8	8.2±0.3	0.5±0.3	-0.55±0.01	-1.37±0.02	0.906±0.006	0.897±0.006	0.008±0.005	-0.129±0.005
11.8	7.8±0.3	0.6±0.3	-0.53±0.01	-1.37±0.02	0.915±0.006	0.906±0.006	0.010±0.005	-0.125±0.005
12.8	7.5±0.3	0.5±0.3	-0.53±0.01	-1.38±0.02	0.924±0.006	0.916±0.006	0.008±0.005	-0.120±0.005
13.8	7.2±0.3	0.5±0.3	-0.51±0.01	-1.38±0.02	0.932±0.006	0.925±0.006	0.008±0.005	-0.117±0.005
16.4	6.7±0.3	0.5±0.3	-0.48±0.01	-1.38±0.02	0.947±0.006	0.941±0.006	0.008±0.005	-0.110±0.005
18.9	6.2±0.3	0.5±0.3	-0.45±0.01	-1.38±0.02	0.965±0.006	0.960±0.006	0.008±0.005	-0.104±0.005
21.4	5.8±0.3	0.5±0.3	-0.42±0.01	-1.38±0.02	0.981±0.006	0.976±0.006	0.008±0.004	-0.100±0.005
24.0	5.6±0.3	0.4±0.3	-0.39±0.01	-1.36±0.02	0.987±0.006	0.982±0.006	0.008±0.004	-0.096±0.005
26.5	5.3±0.3	0.4±0.3	-0.37±0.01	-1.38±0.02	1.005±0.007	1.000±0.006	0.008±0.004	-0.093±0.006
29.1	5.1±0.3	0.4±0.2	-0.34±0.01	-1.36±0.02	1.012±0.007	1.008±0.006	0.008±0.004	-0.090±0.006
31.6	5.0±0.3	0.4±0.2	-0.33±0.01	-1.39±0.02	1.029±0.007	1.025±0.007	0.008±0.004	-0.089±0.006
34.1	4.9±0.3	0.4±0.2	-0.29±0.01	-1.37±0.02	1.038±0.007	1.034±0.007	0.007±0.004	-0.088±0.006
36.7	4.7±0.3	0.4±0.2	-0.27±0.01	-1.37±0.02	1.047±0.007	1.043±0.007	0.007±0.004	-0.085±0.006
39.2	4.6±0.3	0.4±0.2	-0.25±0.01	-1.38±0.02	1.064±0.007	1.060±0.007	0.007±0.004	-0.085±0.006
44.3	4.4±0.3	0.4±0.2	-0.22±0.01	-1.38±0.02	1.080±0.007	1.077±0.007	0.007±0.004	-0.083±0.006
49.4	4.3±0.3	0.4±0.2	-0.16±0.01	-1.38±0.02	1.102±0.007	1.099±0.007	0.007±0.004	-0.082±0.006
54.5	4.1±0.3	0.3±0.2	-0.13±0.01	-1.38±0.02	1.116±0.007	1.113±0.007	0.007±0.004	-0.080±0.006
59.5	4.1±0.3	0.4±0.2	-0.10±0.01	-1.38±0.02	1.133±0.007	1.130±0.007	0.007±0.004	-0.080±0.006
64.6	4.0±0.3	0.4±0.2	-0.07±0.01	-1.39±0.02	1.148±0.007	1.146±0.007	0.007±0.004	-0.080±0.006
69.7	4.0±0.3	0.4±0.2	-0.04±0.01	-1.38±0.02	1.157±0.007	1.155±0.007	0.008±0.004	-0.080±0.006
74.8	4.0±0.3	0.4±0.2	-0.02±0.01	-1.38±0.02	1.167±0.007	1.164±0.007	0.008±0.004	-0.081±0.006
79.9	4.0±0.3	0.4±0.2	-0.01±0.01	-1.38±0.02	1.173±0.007	1.170±0.007	0.008±0.004	-0.082±0.006
84.9	4.0±0.3	0.4±0.2	0.00±0.01	-1.38±0.02	1.176±0.007	1.173±0.007	0.009±0.004	-0.083±0.006
90.0	4.1±0.3	0.4±0.2	0.01±0.01	-1.38±0.02	1.179±0.007	1.176±0.007	0.009±0.004	-0.085±0.007
100.2	4.2±0.3	0.6±0.2	0.01±0.01	-1.38±0.02	1.180±0.007	1.176±0.007	0.012±0.004	-0.087±0.007
110.3	4.3±0.3	0.7±0.2	0.01±0.01	-1.38±0.02	1.180±0.007	1.177±0.007	0.014±0.004	-0.089±0.007
120.5	4.3±0.3	0.7±0.2	0.01±0.01	-1.38±0.02	1.180±0.007	1.176±0.007	0.013±0.004	-0.089±0.007
130.7	4.3±0.3	0.8±0.2	0.01±0.01	-1.38±0.02	1.178±0.007	1.175±0.007	0.017±0.004	-0.089±0.007
140.8	4.4±0.3	1.0±0.2	0.01±0.01	-1.38±0.02	1.177±0.007	1.174±0.007	0.020±0.004	-0.090±0.006

Table B.9 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	13.3±0.3	2.7±0.4	-0.71±0.01	-1.39±0.02	0.824±0.007	0.801±0.007	0.038±0.005	-0.189±0.005
4.7	12.5±0.3	1.9±0.4	-0.69±0.01	-1.39±0.02	0.838±0.007	0.817±0.007	0.028±0.005	-0.181±0.005
5.7	11.6±0.3	1.6±0.4	-0.67±0.01	-1.39±0.02	0.851±0.007	0.833±0.006	0.024±0.005	-0.171±0.005
6.7	10.8±0.3	1.5±0.3	-0.65±0.01	-1.40±0.02	0.871±0.007	0.855±0.006	0.022±0.005	-0.164±0.005
7.7	10.2±0.3	1.3±0.3	-0.62±0.01	-1.40±0.02	0.882±0.007	0.868±0.006	0.020±0.005	-0.156±0.005
8.7	9.6±0.3	1.2±0.3	-0.61±0.01	-1.41±0.02	0.896±0.007	0.884±0.006	0.018±0.005	-0.149±0.005
9.8	9.0±0.3	1.1±0.3	-0.59±0.01	-1.40±0.02	0.903±0.007	0.892±0.006	0.017±0.005	-0.141±0.005
10.8	8.6±0.3	1.0±0.3	-0.57±0.01	-1.41±0.02	0.915±0.007	0.905±0.006	0.015±0.005	-0.137±0.005
11.8	8.2±0.3	0.9±0.3	-0.54±0.01	-1.41±0.02	0.930±0.007	0.921±0.006	0.015±0.005	-0.133±0.005
12.8	7.9±0.3	0.9±0.3	-0.53±0.01	-1.41±0.02	0.939±0.007	0.929±0.006	0.014±0.005	-0.130±0.005
13.8	7.6±0.3	0.8±0.3	-0.52±0.01	-1.41±0.02	0.947±0.007	0.938±0.006	0.013±0.005	-0.126±0.005
16.4	7.0±0.3	0.7±0.3	-0.49±0.01	-1.41±0.02	0.960±0.007	0.953±0.006	0.012±0.005	-0.118±0.005
18.9	6.6±0.3	0.6±0.3	-0.45±0.01	-1.40±0.02	0.973±0.007	0.966±0.006	0.011±0.005	-0.112±0.005
21.4	6.3±0.3	0.6±0.3	-0.43±0.01	-1.41±0.02	0.989±0.007	0.983±0.007	0.011±0.004	-0.108±0.005
24.0	6.0±0.3	0.5±0.3	-0.40±0.01	-1.41±0.02	1.004±0.007	0.998±0.007	0.009±0.004	-0.104±0.006
26.5	5.7±0.3	0.4±0.2	-0.38±0.01	-1.42±0.02	1.017±0.007	1.012±0.007	0.008±0.004	-0.100±0.006
29.1	5.6±0.3	0.4±0.2	-0.34±0.01	-1.41±0.02	1.030±0.007	1.025±0.007	0.007±0.004	-0.100±0.006
31.6	5.3±0.3	0.4±0.2	-0.33±0.01	-1.41±0.02	1.040±0.007	1.035±0.007	0.007±0.004	-0.096±0.006
34.1	5.3±0.3	0.4±0.2	-0.30±0.01	-1.41±0.02	1.050±0.007	1.046±0.007	0.007±0.004	-0.096±0.006
36.7	5.0±0.3	0.3±0.2	-0.28±0.01	-1.41±0.02	1.065±0.007	1.060±0.007	0.006±0.004	-0.094±0.006
39.2	4.9±0.3	0.3±0.2	-0.25±0.01	-1.41±0.02	1.076±0.007	1.072±0.007	0.005±0.004	-0.093±0.006
44.3	4.8±0.3	0.2±0.2	-0.21±0.01	-1.42±0.02	1.097±0.007	1.093±0.007	0.004±0.004	-0.091±0.006
49.4	4.6±0.3	0.2±0.2	-0.17±0.01	-1.40±0.02	1.110±0.007	1.106±0.007	0.005±0.004	-0.089±0.006
54.5	4.5±0.3	0.2±0.2	-0.13±0.01	-1.40±0.02	1.129±0.007	1.126±0.007	0.004±0.004	-0.090±0.006
59.5	4.4±0.3	0.2±0.2	-0.10±0.01	-1.42±0.02	1.147±0.007	1.143±0.007	0.004±0.004	-0.089±0.006
64.6	4.4±0.3	0.2±0.2	-0.07±0.01	-1.41±0.02	1.160±0.007	1.157±0.007	0.004±0.004	-0.089±0.006
69.7	4.4±0.3	0.3±0.2	-0.04±0.01	-1.41±0.02	1.173±0.007	1.169±0.007	0.005±0.004	-0.090±0.006
74.8	4.4±0.3	0.4±0.2	-0.02±0.01	-1.42±0.02	1.182±0.007	1.178±0.007	0.008±0.004	-0.090±0.007
79.9	4.4±0.3	0.4±0.2	0.00±0.01	-1.42±0.02	1.189±0.007	1.185±0.007	0.008±0.004	-0.091±0.007
84.9	4.5±0.3	0.4±0.2	0.00±0.01	-1.42±0.02	1.192±0.007	1.188±0.007	0.008±0.004	-0.094±0.007
90.0	4.6±0.3	0.4±0.2	0.01±0.01	-1.42±0.02	1.194±0.007	1.190±0.007	0.008±0.004	-0.095±0.007
100.2	4.7±0.3	0.5±0.2	0.01±0.01	-1.42±0.02	1.195±0.007	1.191±0.007	0.011±0.004	-0.098±0.007
110.3	4.8±0.3	0.6±0.2	0.01±0.01	-1.42±0.02	1.195±0.007	1.191±0.007	0.012±0.004	-0.099±0.007
120.5	4.8±0.3	0.7±0.2	0.01±0.01	-1.42±0.02	1.196±0.007	1.191±0.007	0.014±0.004	-0.101±0.007
130.7	4.8±0.3	0.8±0.2	0.01±0.01	-1.42±0.02	1.194±0.007	1.189±0.007	0.017±0.004	-0.101±0.007
140.8	4.9±0.3	1.0±0.2	0.01±0.01	-1.41±0.02	1.193±0.007	1.189±0.007	0.020±0.004	-0.102±0.007

Table B.10 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-83 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	15.1±0.3	2.7±0.4	-0.71±0.01	-1.41±0.02	0.842±0.007	0.812±0.006	0.038±0.005	-0.219±0.005
4.7	13.8±0.3	2.1±0.4	-0.69±0.01	-1.42±0.02	0.853±0.007	0.827±0.006	0.030±0.005	-0.204±0.005
5.7	12.8±0.3	1.8±0.3	-0.67±0.01	-1.42±0.02	0.868±0.007	0.846±0.006	0.027±0.005	-0.192±0.005
6.7	11.8±0.3	1.7±0.3	-0.66±0.01	-1.43±0.02	0.877±0.007	0.858±0.006	0.025±0.005	-0.180±0.005
7.7	10.9±0.3	1.4±0.3	-0.63±0.01	-1.43±0.02	0.892±0.007	0.876±0.006	0.022±0.005	-0.169±0.005
8.7	10.2±0.3	1.4±0.3	-0.61±0.01	-1.44±0.02	0.909±0.006	0.894±0.006	0.021±0.005	-0.162±0.005
9.8	9.7±0.3	1.2±0.3	-0.59±0.01	-1.42±0.02	0.912±0.006	0.899±0.006	0.019±0.005	-0.153±0.005
10.8	9.1±0.3	1.1±0.3	-0.58±0.01	-1.45±0.02	0.929±0.006	0.917±0.006	0.018±0.005	-0.147±0.005
11.8	8.7±0.3	1.1±0.3	-0.56±0.01	-1.43±0.02	0.935±0.006	0.924±0.006	0.017±0.005	-0.141±0.005
12.8	8.4±0.3	1.0±0.3	-0.54±0.01	-1.44±0.02	0.944±0.006	0.934±0.006	0.017±0.005	-0.137±0.005
13.8	8.1±0.3	1.0±0.3	-0.52±0.01	-1.43±0.02	0.953±0.006	0.943±0.006	0.016±0.005	-0.134±0.005
16.4	7.4±0.3	0.8±0.3	-0.48±0.01	-1.41±0.02	0.968±0.006	0.960±0.006	0.013±0.005	-0.125±0.005
18.9	7.0±0.3	0.7±0.3	-0.45±0.01	-1.44±0.02	0.992±0.007	0.985±0.006	0.011±0.004	-0.120±0.005
21.4	6.7±0.3	0.5±0.3	-0.42±0.01	-1.42±0.02	1.001±0.007	0.994±0.007	0.009±0.004	-0.116±0.006
24.0	6.4±0.3	0.4±0.2	-0.39±0.01	-1.42±0.02	1.015±0.007	1.008±0.007	0.008±0.004	-0.113±0.006
26.5	6.1±0.3	0.4±0.2	-0.37±0.01	-1.44±0.02	1.031±0.007	1.025±0.007	0.007±0.004	-0.110±0.006
29.1	5.9±0.3	0.3±0.2	-0.34±0.01	-1.44±0.02	1.045±0.007	1.039±0.007	0.006±0.004	-0.108±0.006
31.6	5.8±0.3	0.3±0.2	-0.32±0.01	-1.44±0.02	1.055±0.007	1.049±0.007	0.005±0.004	-0.106±0.006
34.1	5.6±0.3	0.2±0.2	-0.30±0.01	-1.44±0.02	1.065±0.007	1.059±0.007	0.004±0.004	-0.105±0.006
36.7	5.5±0.3	0.2±0.2	-0.27±0.01	-1.43±0.02	1.077±0.007	1.072±0.007	0.003±0.004	-0.103±0.006
39.2	5.4±0.3	0.1±0.2	-0.26±0.01	-1.43±0.02	1.084±0.007	1.079±0.007	0.002±0.004	-0.102±0.006
44.3	5.2±0.3	0.1±0.2	-0.21±0.01	-1.43±0.02	1.105±0.007	1.100±0.007	0.001±0.004	-0.100±0.006
49.4	5.1±0.3	0.0±0.2	-0.17±0.01	-1.45±0.02	1.129±0.007	1.125±0.007	0.001±0.004	-0.101±0.006
54.5	5.0±0.3	0.0±0.2	-0.13±0.01	-1.44±0.02	1.143±0.007	1.139±0.007	0.000±0.004	-0.100±0.006
59.5	4.9±0.3	0.0±0.2	-0.09±0.01	-1.42±0.02	1.153±0.007	1.149±0.007	0.000±0.004	-0.099±0.006
64.6	4.9±0.3	0.0±0.2	-0.06±0.01	-1.43±0.02	1.168±0.007	1.164±0.007	0.001±0.004	-0.100±0.006
69.7	4.9±0.3	0.1±0.2	-0.04±0.01	-1.44±0.02	1.184±0.007	1.179±0.007	0.002±0.004	-0.101±0.007
74.8	4.9±0.3	0.2±0.2	-0.02±0.01	-1.44±0.02	1.192±0.007	1.187±0.007	0.004±0.004	-0.101±0.007
79.9	4.9±0.3	0.2±0.2	-0.01±0.01	-1.44±0.02	1.199±0.007	1.194±0.007	0.004±0.004	-0.103±0.007
84.9	5.1±0.3	0.3±0.2	0.00±0.01	-1.45±0.02	1.203±0.007	1.198±0.007	0.005±0.004	-0.106±0.007
90.0	5.1±0.3	0.3±0.2	0.01±0.01	-1.45±0.02	1.205±0.007	1.200±0.007	0.007±0.004	-0.107±0.007
100.2	5.3±0.3	0.4±0.2	0.01±0.01	-1.45±0.02	1.207±0.007	1.201±0.007	0.009±0.004	-0.111±0.007
110.3	5.3±0.3	0.6±0.2	0.01±0.01	-1.45±0.02	1.208±0.007	1.202±0.007	0.012±0.004	-0.113±0.007
120.5	5.4±0.3	0.6±0.2	0.01±0.01	-1.45±0.02	1.207±0.007	1.202±0.007	0.014±0.004	-0.113±0.007
130.7	5.4±0.3	0.8±0.2	0.01±0.01	-1.44±0.02	1.205±0.007	1.200±0.007	0.018±0.004	-0.114±0.007
140.8	5.5±0.3	1.0±0.2	0.01±0.01	-1.44±0.02	1.205±0.007	1.199±0.007	0.020±0.004	-0.115±0.007

Table B.11 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	16.6±0.3	2.6±0.4	-0.70±0.01	-1.44±0.02	0.858±0.007	0.822±0.006	0.038±0.005	-0.245±0.005
4.7	15.3±0.3	2.1±0.4	-0.69±0.01	-1.44±0.02	0.869±0.007	0.838±0.006	0.031±0.005	-0.230±0.005
5.7	14.0±0.3	1.8±0.3	-0.67±0.01	-1.46±0.02	0.886±0.007	0.859±0.006	0.026±0.005	-0.214±0.005
6.7	12.8±0.3	1.6±0.3	-0.64±0.01	-1.44±0.02	0.893±0.007	0.871±0.006	0.024±0.005	-0.197±0.005
7.7	11.8±0.3	1.4±0.3	-0.63±0.01	-1.46±0.02	0.910±0.006	0.891±0.006	0.022±0.005	-0.186±0.005
8.7	10.9±0.3	1.3±0.3	-0.61±0.01	-1.46±0.02	0.925±0.006	0.908±0.006	0.020±0.005	-0.176±0.005
9.8	10.2±0.3	1.3±0.3	-0.59±0.01	-1.46±0.02	0.931±0.006	0.916±0.006	0.020±0.005	-0.165±0.005
10.8	9.6±0.3	1.1±0.3	-0.57±0.01	-1.47±0.02	0.947±0.006	0.934±0.006	0.019±0.005	-0.158±0.005
11.8	9.1±0.3	1.1±0.3	-0.56±0.01	-1.46±0.02	0.950±0.006	0.937±0.006	0.019±0.005	-0.151±0.005
12.8	8.7±0.3	1.0±0.3	-0.53±0.01	-1.45±0.02	0.958±0.006	0.946±0.006	0.017±0.005	-0.146±0.005
13.8	8.4±0.3	1.0±0.3	-0.51±0.01	-1.46±0.02	0.974±0.006	0.963±0.006	0.016±0.005	-0.143±0.005
16.4	7.7±0.3	0.7±0.3	-0.48±0.01	-1.46±0.02	0.987±0.007	0.978±0.006	0.012±0.004	-0.133±0.005
18.9	7.3±0.3	0.6±0.3	-0.45±0.01	-1.46±0.02	1.006±0.007	0.998±0.007	0.010±0.004	-0.129±0.006
21.4	6.9±0.3	0.4±0.2	-0.41±0.01	-1.45±0.02	1.020±0.007	1.012±0.007	0.008±0.004	-0.123±0.006
24.0	6.7±0.3	0.4±0.2	-0.40±0.01	-1.46±0.02	1.029±0.007	1.022±0.007	0.007±0.004	-0.121±0.006
26.5	6.5±0.3	0.2±0.2	-0.37±0.01	-1.46±0.02	1.044±0.007	1.038±0.007	0.004±0.004	-0.119±0.006
29.1	6.3±0.3	0.1±0.2	-0.34±0.01	-1.46±0.02	1.058±0.007	1.051±0.007	0.003±0.004	-0.116±0.006
31.6	6.2±0.3	0.0±0.2	-0.32±0.01	-1.46±0.02	1.069±0.007	1.062±0.007	0.000±0.004	-0.115±0.006
34.1	6.0±0.3	0.0±0.2	-0.29±0.01	-1.47±0.02	1.083±0.007	1.077±0.007	-0.001±0.004	-0.113±0.006
36.7	5.9±0.3	-0.1±0.2	-0.27±0.01	-1.46±0.02	1.088±0.007	1.082±0.007	-0.001±0.004	-0.111±0.006
39.2	5.8±0.3	-0.1±0.2	-0.24±0.01	-1.46±0.02	1.105±0.007	1.099±0.007	-0.003±0.004	-0.112±0.006
44.3	5.7±0.3	-0.2±0.2	-0.20±0.01	-1.46±0.02	1.121±0.007	1.116±0.007	-0.004±0.004	-0.112±0.006
49.4	5.5±0.3	-0.2±0.2	-0.18±0.01	-1.48±0.02	1.141±0.007	1.136±0.007	-0.004±0.004	-0.110±0.006
54.5	5.5±0.3	-0.2±0.2	-0.12±0.01	-1.46±0.02	1.156±0.007	1.150±0.007	-0.004±0.004	-0.110±0.006
59.5	5.4±0.3	-0.2±0.2	-0.09±0.01	-1.47±0.02	1.175±0.007	1.170±0.007	-0.003±0.004	-0.111±0.006
64.6	5.4±0.3	-0.2±0.2	-0.07±0.01	-1.47±0.02	1.184±0.007	1.178±0.007	-0.003±0.004	-0.112±0.007
69.7	5.4±0.3	-0.1±0.2	-0.04±0.01	-1.48±0.02	1.198±0.007	1.193±0.007	-0.002±0.004	-0.113±0.007
74.8	5.4±0.3	0.0±0.2	-0.02±0.01	-1.48±0.02	1.207±0.007	1.201±0.007	0.000±0.004	-0.114±0.007
79.9	5.5±0.3	0.0±0.2	-0.01±0.01	-1.47±0.02	1.211±0.007	1.206±0.007	0.001±0.004	-0.115±0.007
84.9	5.5±0.3	0.2±0.2	0.00±0.01	-1.48±0.02	1.217±0.007	1.211±0.007	0.004±0.004	-0.117±0.007
90.0	5.6±0.3	0.2±0.2	0.01±0.01	-1.48±0.02	1.219±0.007	1.213±0.007	0.005±0.004	-0.119±0.007
100.2	5.8±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.214±0.007	0.008±0.004	-0.123±0.007
110.3	5.9±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.220±0.007	1.214±0.007	0.009±0.004	-0.125±0.007
120.5	5.9±0.3	0.6±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.214±0.007	0.013±0.004	-0.126±0.007
130.7	6.0±0.3	0.8±0.2	0.01±0.01	-1.48±0.02	1.220±0.007	1.213±0.007	0.018±0.004	-0.127±0.007
140.8	6.1±0.3	1.0±0.2	0.01±0.01	-1.48±0.02	1.219±0.007	1.212±0.007	0.021±0.004	-0.129±0.007

Table B.12 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	18.4±0.3	2.9±0.4	-0.70±0.01	-1.47±0.02	0.878±0.007	0.832±0.006	0.042±0.005	-0.276±0.005
4.7	16.8±0.3	2.1±0.3	-0.68±0.01	-1.47±0.02	0.888±0.007	0.849±0.006	0.032±0.005	-0.257±0.005
5.7	15.4±0.3	1.9±0.3	-0.67±0.01	-1.48±0.02	0.900±0.007	0.867±0.006	0.029±0.005	-0.239±0.005
6.7	13.9±0.3	1.7±0.3	-0.64±0.01	-1.47±0.02	0.910±0.007	0.883±0.006	0.027±0.005	-0.219±0.005
7.7	12.6±0.3	1.6±0.3	-0.62±0.01	-1.47±0.02	0.926±0.007	0.904±0.006	0.025±0.005	-0.203±0.005
8.7	11.5±0.3	1.6±0.3	-0.60±0.01	-1.48±0.02	0.938±0.007	0.918±0.006	0.026±0.005	-0.187±0.005
9.8	10.7±0.3	1.5±0.3	-0.57±0.01	-1.48±0.02	0.949±0.007	0.932±0.006	0.024±0.005	-0.176±0.005
10.8	10.0±0.3	1.4±0.3	-0.55±0.01	-1.47±0.02	0.958±0.007	0.944±0.006	0.023±0.005	-0.166±0.005
11.8	9.5±0.3	1.2±0.3	-0.54±0.01	-1.48±0.02	0.970±0.007	0.957±0.006	0.020±0.005	-0.160±0.005
12.8	9.0±0.3	1.1±0.3	-0.52±0.01	-1.48±0.02	0.980±0.007	0.968±0.006	0.019±0.005	-0.153±0.005
13.8	8.6±0.3	1.0±0.3	-0.49±0.01	-1.47±0.02	0.988±0.007	0.977±0.006	0.017±0.005	-0.148±0.005
16.4	8.0±0.3	0.7±0.3	-0.46±0.01	-1.47±0.02	1.007±0.007	0.997±0.007	0.011±0.004	-0.140±0.006
18.9	7.6±0.3	0.4±0.2	-0.43±0.01	-1.48±0.02	1.024±0.007	1.015±0.007	0.007±0.004	-0.135±0.006
21.4	7.3±0.3	0.2±0.2	-0.40±0.01	-1.47±0.02	1.033±0.007	1.025±0.007	0.003±0.004	-0.131±0.006
24.0	7.0±0.3	0.0±0.2	-0.37±0.01	-1.47±0.02	1.048±0.007	1.040±0.007	-0.001±0.004	-0.128±0.006
26.5	6.9±0.3	-0.1±0.2	-0.35±0.01	-1.48±0.02	1.062±0.007	1.054±0.007	-0.001±0.004	-0.127±0.006
29.1	6.7±0.3	-0.3±0.2	-0.32±0.01	-1.48±0.02	1.074±0.007	1.066±0.007	-0.005±0.004	-0.126±0.006
31.6	6.6±0.3	-0.3±0.2	-0.30±0.01	-1.48±0.02	1.087±0.007	1.080±0.007	-0.005±0.004	-0.125±0.006
34.1	6.5±0.3	-0.4±0.2	-0.28±0.01	-1.48±0.02	1.094±0.007	1.087±0.007	-0.008±0.004	-0.123±0.006
36.7	6.4±0.3	-0.4±0.2	-0.25±0.01	-1.48±0.02	1.107±0.007	1.100±0.007	-0.008±0.004	-0.123±0.006
39.2	6.3±0.3	-0.4±0.2	-0.23±0.01	-1.48±0.02	1.118±0.007	1.111±0.007	-0.008±0.004	-0.123±0.006
44.3	6.2±0.3	-0.5±0.2	-0.20±0.01	-1.49±0.02	1.136±0.007	1.129±0.007	-0.010±0.004	-0.123±0.006
49.4	6.2±0.3	-0.5±0.2	-0.16±0.01	-1.49±0.02	1.154±0.007	1.147±0.007	-0.009±0.004	-0.124±0.006
54.5	6.0±0.3	-0.5±0.2	-0.12±0.01	-1.49±0.02	1.169±0.007	1.162±0.007	-0.010±0.004	-0.123±0.006
59.5	6.0±0.3	-0.4±0.2	-0.08±0.01	-1.48±0.02	1.184±0.007	1.177±0.007	-0.009±0.004	-0.125±0.007
64.6	6.0±0.3	-0.3±0.2	-0.06±0.01	-1.49±0.02	1.196±0.007	1.189±0.007	-0.007±0.004	-0.126±0.007
69.7	6.0±0.3	-0.3±0.2	-0.04±0.01	-1.50±0.02	1.210±0.007	1.203±0.007	-0.006±0.004	-0.127±0.007
74.8	6.0±0.3	-0.1±0.2	-0.02±0.01	-1.49±0.02	1.215±0.007	1.209±0.007	-0.003±0.004	-0.128±0.007
79.9	6.1±0.3	-0.1±0.2	0.00±0.01	-1.50±0.02	1.222±0.007	1.215±0.007	-0.002±0.004	-0.130±0.007
84.9	6.2±0.3	0.0±0.2	0.01±0.01	-1.50±0.02	1.226±0.007	1.218±0.007	0.000±0.004	-0.132±0.007
90.0	6.3±0.3	0.1±0.2	0.01±0.01	-1.50±0.02	1.227±0.007	1.220±0.007	0.002±0.004	-0.134±0.007
100.2	6.5±0.3	0.2±0.2	0.01±0.01	-1.50±0.02	1.230±0.007	1.222±0.007	0.005±0.004	-0.139±0.007
110.3	6.6±0.3	0.4±0.2	0.01±0.01	-1.50±0.02	1.229±0.007	1.221±0.007	0.009±0.004	-0.141±0.007
120.5	6.6±0.3	0.6±0.2	0.01±0.01	-1.50±0.02	1.229±0.007	1.221±0.007	0.013±0.004	-0.141±0.007
130.7	6.7±0.3	0.8±0.2	0.01±0.01	-1.50±0.02	1.227±0.007	1.219±0.007	0.017±0.004	-0.142±0.007
140.8	6.7±0.3	1.1±0.2	0.01±0.01	-1.49±0.02	1.226±0.007	1.218±0.007	0.023±0.004	-0.144±0.007

Table B.13 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	21.0±0.3	4.3±0.3	-0.73±0.01	-1.53±0.02	0.892±0.006	0.830±0.006	0.062±0.005	-0.319±0.005
4.7	19.1±0.3	3.6±0.3	-0.73±0.01	-1.54±0.02	0.901±0.006	0.850±0.006	0.053±0.005	-0.294±0.005
5.7	16.7±0.3	3.3±0.3	-0.71±0.01	-1.55±0.02	0.913±0.006	0.873±0.006	0.050±0.005	-0.262±0.005
6.7	14.5±0.3	2.9±0.3	-0.68±0.01	-1.54±0.02	0.930±0.006	0.899±0.006	0.046±0.005	-0.233±0.005
7.7	12.6±0.3	2.8±0.3	-0.64±0.01	-1.54±0.02	0.945±0.006	0.921±0.006	0.045±0.005	-0.206±0.005
8.7	11.2±0.3	2.3±0.3	-0.62±0.01	-1.54±0.02	0.961±0.006	0.942±0.006	0.037±0.005	-0.187±0.005
9.8	10.3±0.3	1.8±0.3	-0.59±0.01	-1.54±0.02	0.976±0.006	0.959±0.006	0.031±0.005	-0.174±0.005
10.8	9.6±0.3	1.5±0.3	-0.56±0.01	-1.54±0.02	0.987±0.006	0.973±0.006	0.025±0.005	-0.164±0.005
11.8	9.1±0.3	1.2±0.3	-0.55±0.01	-1.54±0.02	0.996±0.007	0.983±0.006	0.020±0.004	-0.157±0.006
12.8	8.7±0.3	0.9±0.3	-0.52±0.01	-1.53±0.02	1.005±0.007	0.993±0.006	0.015±0.004	-0.152±0.006
13.8	8.4±0.3	0.7±0.2	-0.50±0.01	-1.54±0.02	1.016±0.007	1.005±0.007	0.012±0.004	-0.149±0.006
16.4	8.0±0.3	0.2±0.2	-0.46±0.01	-1.53±0.02	1.033±0.007	1.023±0.007	0.003±0.004	-0.144±0.006
18.9	7.8±0.3	-0.1±0.2	-0.43±0.01	-1.52±0.02	1.047±0.007	1.037±0.007	-0.002±0.004	-0.142±0.006
21.4	7.6±0.3	-0.4±0.2	-0.40±0.01	-1.52±0.02	1.059±0.007	1.049±0.007	-0.008±0.004	-0.141±0.006
24.0	7.5±0.3	-0.5±0.2	-0.37±0.01	-1.52±0.02	1.071±0.007	1.062±0.007	-0.010±0.004	-0.140±0.006
26.5	7.4±0.3	-0.7±0.2	-0.35±0.01	-1.53±0.02	1.084±0.007	1.075±0.007	-0.012±0.004	-0.140±0.006
29.1	7.3±0.3	-0.7±0.2	-0.32±0.01	-1.53±0.02	1.101±0.007	1.092±0.007	-0.013±0.004	-0.140±0.006
31.6	7.2±0.3	-0.8±0.2	-0.30±0.01	-1.53±0.02	1.110±0.007	1.101±0.007	-0.016±0.004	-0.140±0.006
34.1	7.1±0.3	-0.9±0.2	-0.27±0.01	-1.52±0.02	1.119±0.007	1.110±0.007	-0.017±0.004	-0.139±0.006
36.7	7.1±0.3	-0.9±0.2	-0.25±0.01	-1.53±0.02	1.130±0.007	1.121±0.007	-0.018±0.004	-0.140±0.006
39.2	7.0±0.3	-0.9±0.2	-0.24±0.01	-1.53±0.02	1.139±0.007	1.130±0.007	-0.018±0.004	-0.139±0.006
44.3	7.0±0.3	-0.9±0.2	-0.19±0.01	-1.53±0.02	1.158±0.007	1.149±0.007	-0.019±0.004	-0.140±0.006
49.4	6.9±0.3	-0.9±0.2	-0.15±0.01	-1.53±0.02	1.175±0.007	1.166±0.007	-0.018±0.004	-0.141±0.006
54.5	6.8±0.3	-0.8±0.2	-0.12±0.01	-1.54±0.02	1.193±0.007	1.184±0.007	-0.017±0.004	-0.142±0.007
59.5	6.8±0.3	-0.8±0.2	-0.09±0.01	-1.55±0.02	1.207±0.007	1.198±0.007	-0.016±0.004	-0.143±0.007
64.6	6.8±0.3	-0.7±0.2	-0.06±0.01	-1.55±0.02	1.222±0.007	1.213±0.007	-0.014±0.004	-0.144±0.007
69.7	6.8±0.3	-0.6±0.2	-0.03±0.01	-1.55±0.02	1.233±0.007	1.224±0.007	-0.012±0.004	-0.146±0.007
74.8	6.9±0.3	-0.4±0.2	-0.02±0.01	-1.56±0.02	1.239±0.007	1.231±0.007	-0.009±0.004	-0.149±0.007
79.9	6.9±0.3	-0.4±0.2	0.00±0.01	-1.55±0.02	1.245±0.007	1.236±0.007	-0.008±0.004	-0.150±0.007
84.9	7.0±0.3	-0.2±0.2	0.00±0.01	-1.56±0.02	1.249±0.007	1.239±0.007	-0.005±0.004	-0.153±0.007
90.0	7.1±0.3	-0.1±0.2	0.01±0.01	-1.56±0.02	1.253±0.007	1.243±0.007	-0.002±0.004	-0.155±0.007
100.2	7.2±0.3	0.1±0.2	0.01±0.01	-1.56±0.02	1.254±0.007	1.244±0.007	0.002±0.004	-0.158±0.007
110.3	7.4±0.3	0.4±0.2	0.01±0.01	-1.56±0.02	1.254±0.007	1.244±0.007	0.009±0.004	-0.161±0.007
120.5	7.5±0.3	0.6±0.2	0.01±0.01	-1.56±0.02	1.254±0.007	1.243±0.007	0.013±0.004	-0.163±0.007
130.7	7.5±0.3	0.9±0.2	0.01±0.01	-1.56±0.02	1.253±0.007	1.242±0.007	0.018±0.004	-0.164±0.007
140.8	7.6±0.3	1.1±0.2	0.01±0.01	-1.56±0.02	1.252±0.007	1.241±0.007	0.024±0.004	-0.166±0.007

Table B.14 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	24.6±0.3	4.6±0.3	-0.76±0.01	-1.60±0.02	0.917±0.006	0.831±0.006	0.066±0.005	-0.381±0.005
4.7	21.3±0.3	3.3±0.3	-0.78±0.01	-1.63±0.02	0.922±0.006	0.858±0.006	0.050±0.005	-0.335±0.005
5.7	17.6±0.3	2.4±0.3	-0.78±0.01	-1.63±0.02	0.922±0.006	0.878±0.006	0.036±0.005	-0.278±0.005
6.7	14.2±0.3	1.3±0.3	-0.73±0.01	-1.63±0.02	0.945±0.006	0.916±0.006	0.021±0.005	-0.232±0.005
7.7	11.6±0.3	0.5±0.3	-0.70±0.01	-1.62±0.02	0.962±0.006	0.943±0.006	0.008±0.005	-0.194±0.005
8.7	10.2±0.3	0.1±0.3	-0.65±0.01	-1.62±0.02	0.987±0.006	0.971±0.006	0.002±0.004	-0.175±0.005
9.8	9.3±0.3	-0.2±0.3	-0.60±0.01	-1.60±0.02	1.000±0.006	0.987±0.006	-0.003±0.004	-0.161±0.006
10.8	8.9±0.3	-0.4±0.3	-0.57±0.01	-1.60±0.02	1.010±0.006	0.998±0.006	-0.006±0.004	-0.156±0.006
11.8	8.5±0.3	-0.6±0.2	-0.54±0.01	-1.57±0.02	1.016±0.006	1.004±0.006	-0.011±0.004	-0.150±0.006
12.8	8.5±0.3	-0.8±0.2	-0.52±0.01	-1.59±0.02	1.036±0.007	1.024±0.007	-0.013±0.004	-0.153±0.006
13.8	8.3±0.3	-0.7±0.2	-0.50±0.01	-1.59±0.02	1.042±0.007	1.030±0.007	-0.013±0.004	-0.151±0.006
16.4	8.3±0.3	-1.0±0.2	-0.45±0.01	-1.56±0.02	1.055±0.007	1.044±0.007	-0.019±0.004	-0.152±0.006
18.9	8.2±0.3	-1.2±0.2	-0.41±0.01	-1.55±0.02	1.069±0.007	1.058±0.007	-0.022±0.004	-0.153±0.006
21.4	8.2±0.3	-1.3±0.2	-0.38±0.01	-1.57±0.02	1.088±0.007	1.076±0.007	-0.025±0.004	-0.156±0.006
24.0	8.2±0.3	-1.4±0.2	-0.37±0.01	-1.57±0.02	1.094±0.007	1.083±0.007	-0.026±0.004	-0.156±0.006
26.5	8.1±0.3	-1.5±0.2	-0.34±0.01	-1.58±0.02	1.112±0.007	1.101±0.007	-0.028±0.004	-0.158±0.006
29.1	8.1±0.3	-1.5±0.2	-0.32±0.01	-1.57±0.02	1.122±0.007	1.110±0.007	-0.029±0.004	-0.158±0.006
31.6	8.1±0.3	-1.5±0.2	-0.30±0.01	-1.58±0.02	1.133±0.007	1.121±0.007	-0.030±0.004	-0.159±0.006
34.1	8.0±0.3	-1.5±0.2	-0.28±0.01	-1.58±0.02	1.138±0.007	1.127±0.007	-0.030±0.004	-0.159±0.006
36.7	7.9±0.3	-1.6±0.2	-0.24±0.01	-1.57±0.02	1.151±0.007	1.140±0.007	-0.031±0.004	-0.159±0.006
39.2	8.0±0.3	-1.6±0.2	-0.23±0.01	-1.57±0.02	1.156±0.007	1.144±0.007	-0.031±0.004	-0.161±0.006
44.3	7.9±0.3	-1.5±0.2	-0.21±0.01	-1.59±0.02	1.176±0.007	1.164±0.007	-0.030±0.004	-0.162±0.006
49.4	7.9±0.3	-1.4±0.2	-0.15±0.01	-1.58±0.02	1.195±0.007	1.184±0.007	-0.029±0.004	-0.163±0.007
54.5	7.9±0.3	-1.3±0.2	-0.12±0.01	-1.58±0.02	1.210±0.007	1.198±0.007	-0.028±0.004	-0.165±0.007
59.5	7.8±0.3	-1.2±0.2	-0.10±0.01	-1.60±0.02	1.226±0.007	1.214±0.007	-0.025±0.004	-0.166±0.007
64.6	7.8±0.3	-1.1±0.2	-0.06±0.01	-1.60±0.02	1.240±0.007	1.228±0.007	-0.023±0.004	-0.168±0.007
69.7	7.8±0.3	-0.9±0.2	-0.05±0.01	-1.62±0.02	1.252±0.007	1.240±0.007	-0.020±0.004	-0.170±0.007
74.8	7.8±0.3	-0.8±0.2	-0.02±0.01	-1.61±0.02	1.259±0.007	1.247±0.007	-0.018±0.003	-0.171±0.007
79.9	7.9±0.3	-0.7±0.2	0.00±0.01	-1.61±0.02	1.267±0.007	1.255±0.007	-0.015±0.003	-0.174±0.007
84.9	8.0±0.3	-0.6±0.2	0.00±0.01	-1.62±0.02	1.271±0.007	1.259±0.007	-0.012±0.003	-0.176±0.007
90.0	8.1±0.3	-0.4±0.2	0.01±0.01	-1.62±0.02	1.274±0.007	1.262±0.007	-0.009±0.003	-0.179±0.007
100.2	8.3±0.3	-0.1±0.2	0.01±0.01	-1.62±0.02	1.277±0.007	1.264±0.007	-0.003±0.003	-0.183±0.007
110.3	8.4±0.3	0.2±0.2	0.01±0.01	-1.62±0.02	1.278±0.007	1.264±0.007	0.004±0.003	-0.187±0.007
120.5	8.5±0.3	0.4±0.2	0.01±0.01	-1.62±0.02	1.278±0.007	1.264±0.007	0.009±0.003	-0.188±0.007
130.7	8.5±0.3	0.7±0.2	0.01±0.01	-1.62±0.02	1.277±0.007	1.263±0.007	0.016±0.003	-0.189±0.007
140.8	8.6±0.3	1.0±0.2	0.01±0.01	-1.61±0.02	1.274±0.007	1.260±0.007	0.023±0.003	-0.190±0.007

Table B.15 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	24.4±0.3	1.0±0.3	-0.68±0.01	-1.65±0.02	0.983±0.007	0.895±0.006	0.016±0.005	-0.406±0.006
4.7	21.4±0.3	-1.0±0.3	-0.71±0.01	-1.67±0.02	0.982±0.007	0.914±0.006	-0.015±0.005	-0.359±0.006
5.7	17.6±0.3	-2.3±0.3	-0.70±0.01	-1.67±0.02	0.985±0.007	0.939±0.006	-0.038±0.005	-0.297±0.006
6.7	15.0±0.3	-3.0±0.3	-0.65±0.01	-1.65±0.02	0.999±0.007	0.964±0.007	-0.050±0.004	-0.258±0.006
7.7	13.0±0.3	-3.3±0.3	-0.61±0.01	-1.65±0.02	1.019±0.007	0.991±0.007	-0.057±0.004	-0.228±0.006
8.7	11.7±0.3	-3.4±0.3	-0.57±0.01	-1.63±0.02	1.029±0.007	1.006±0.007	-0.060±0.004	-0.208±0.006
9.8	11.0±0.3	-3.3±0.2	-0.54±0.01	-1.64±0.02	1.046±0.007	1.025±0.007	-0.060±0.004	-0.199±0.006
10.8	10.5±0.3	-3.2±0.2	-0.51±0.01	-1.62±0.02	1.056±0.007	1.037±0.007	-0.059±0.004	-0.192±0.006
11.8	10.1±0.3	-3.1±0.2	-0.49±0.01	-1.63±0.02	1.067±0.007	1.049±0.007	-0.056±0.004	-0.188±0.006
12.8	10.0±0.3	-2.9±0.2	-0.48±0.01	-1.62±0.02	1.070±0.007	1.053±0.007	-0.054±0.004	-0.185±0.006
13.8	9.8±0.3	-2.9±0.2	-0.47±0.01	-1.63±0.02	1.078±0.007	1.061±0.007	-0.054±0.004	-0.184±0.006
16.4	9.5±0.3	-2.7±0.2	-0.43±0.01	-1.63±0.02	1.096±0.007	1.080±0.007	-0.050±0.004	-0.181±0.006
18.9	9.4±0.3	-2.6±0.2	-0.39±0.01	-1.62±0.02	1.111±0.007	1.095±0.007	-0.049±0.004	-0.181±0.006
21.4	9.3±0.3	-2.6±0.2	-0.37±0.01	-1.65±0.02	1.131±0.007	1.115±0.007	-0.050±0.004	-0.183±0.006
24.0	9.2±0.3	-2.6±0.2	-0.35±0.01	-1.64±0.02	1.134±0.007	1.118±0.007	-0.050±0.004	-0.182±0.006
26.5	9.2±0.3	-2.6±0.2	-0.32±0.01	-1.64±0.02	1.147±0.007	1.131±0.007	-0.051±0.004	-0.184±0.006
29.1	9.2±0.3	-2.5±0.2	-0.30±0.01	-1.64±0.02	1.158±0.007	1.142±0.007	-0.050±0.004	-0.184±0.006
31.6	9.2±0.3	-2.5±0.2	-0.27±0.01	-1.63±0.02	1.167±0.007	1.151±0.007	-0.051±0.004	-0.186±0.006
34.1	9.1±0.3	-2.5±0.2	-0.25±0.01	-1.65±0.02	1.184±0.007	1.168±0.007	-0.051±0.004	-0.188±0.007
36.7	9.1±0.3	-2.4±0.2	-0.24±0.01	-1.66±0.02	1.192±0.007	1.176±0.007	-0.049±0.004	-0.188±0.007
39.2	9.1±0.3	-2.4±0.2	-0.21±0.01	-1.65±0.02	1.201±0.007	1.185±0.007	-0.049±0.004	-0.189±0.007
44.3	9.0±0.3	-2.2±0.2	-0.18±0.01	-1.66±0.02	1.219±0.007	1.203±0.007	-0.047±0.004	-0.190±0.007
49.4	9.0±0.3	-2.1±0.2	-0.15±0.01	-1.68±0.02	1.237±0.007	1.221±0.007	-0.045±0.004	-0.193±0.007
54.5	9.0±0.3	-1.9±0.2	-0.11±0.01	-1.68±0.02	1.253±0.007	1.237±0.007	-0.041±0.004	-0.196±0.007
59.5	9.0±0.3	-1.7±0.2	-0.07±0.01	-1.67±0.02	1.266±0.007	1.250±0.007	-0.038±0.004	-0.197±0.007
64.6	8.9±0.3	-1.6±0.2	-0.05±0.01	-1.69±0.02	1.279±0.007	1.263±0.007	-0.034±0.004	-0.198±0.007
69.7	8.9±0.3	-1.4±0.2	-0.03±0.01	-1.68±0.02	1.286±0.007	1.270±0.007	-0.032±0.003	-0.199±0.007
74.8	9.0±0.3	-1.2±0.2	-0.01±0.01	-1.70±0.02	1.298±0.007	1.282±0.007	-0.028±0.003	-0.203±0.007
79.9	9.1±0.3	-1.1±0.2	0.00±0.01	-1.70±0.02	1.302±0.007	1.286±0.007	-0.024±0.003	-0.205±0.007
84.9	9.2±0.3	-0.9±0.2	0.01±0.01	-1.70±0.02	1.307±0.007	1.290±0.007	-0.019±0.003	-0.208±0.007
90.0	9.3±0.3	-0.6±0.2	0.01±0.01	-1.71±0.02	1.311±0.007	1.293±0.007	-0.015±0.003	-0.212±0.007
100.2	9.5±0.3	-0.2±0.2	0.01±0.01	-1.71±0.02	1.313±0.007	1.295±0.007	-0.005±0.003	-0.217±0.007
110.3	9.6±0.3	0.1±0.2	0.01±0.01	-1.72±0.02	1.314±0.007	1.296±0.007	0.002±0.003	-0.218±0.007
120.5	9.6±0.3	0.4±0.2	0.01±0.01	-1.72±0.02	1.314±0.007	1.296±0.007	0.008±0.003	-0.220±0.007
130.7	9.7±0.3	0.6±0.2	0.01±0.01	-1.72±0.02	1.313±0.007	1.295±0.007	0.013±0.003	-0.221±0.007
140.8	9.7±0.3	0.9±0.2	0.01±0.01	-1.71±0.02	1.312±0.007	1.293±0.007	0.020±0.003	-0.222±0.007

Table B.16 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(27 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	20.9±0.3	-0.1±0.2	-0.57±0.01	-1.68±0.02	1.053±0.007	0.984±0.007	-0.001±0.004	-0.376±0.006
4.7	18.9±0.3	-1.8±0.2	-0.56±0.01	-1.68±0.02	1.054±0.007	0.996±0.007	-0.031±0.004	-0.342±0.006
5.7	17.1±0.3	-2.8±0.2	-0.55±0.01	-1.67±0.02	1.060±0.007	1.012±0.007	-0.050±0.004	-0.311±0.006
6.7	15.6±0.3	-3.5±0.2	-0.54±0.01	-1.67±0.02	1.066±0.007	1.025±0.007	-0.063±0.004	-0.286±0.006
7.7	14.6±0.3	-3.8±0.2	-0.52±0.01	-1.70±0.02	1.083±0.007	1.046±0.007	-0.070±0.004	-0.272±0.006
8.7	13.7±0.3	-4.1±0.2	-0.51±0.01	-1.68±0.02	1.082±0.007	1.049±0.007	-0.076±0.004	-0.256±0.006
9.8	13.0±0.3	-4.2±0.2	-0.48±0.01	-1.67±0.02	1.091±0.007	1.060±0.007	-0.077±0.004	-0.245±0.006
10.8	12.6±0.3	-4.3±0.2	-0.47±0.01	-1.68±0.02	1.097±0.007	1.068±0.007	-0.080±0.004	-0.238±0.006
11.8	12.1±0.3	-4.3±0.2	-0.46±0.01	-1.70±0.02	1.110±0.007	1.082±0.007	-0.081±0.004	-0.233±0.006
12.8	11.8±0.3	-4.2±0.2	-0.45±0.01	-1.70±0.02	1.114±0.007	1.088±0.007	-0.081±0.004	-0.228±0.006
13.8	11.6±0.3	-4.3±0.2	-0.43±0.01	-1.68±0.02	1.117±0.007	1.092±0.007	-0.082±0.004	-0.224±0.006
16.4	11.2±0.3	-4.2±0.2	-0.41±0.01	-1.70±0.02	1.134±0.007	1.109±0.007	-0.081±0.004	-0.219±0.006
18.9	10.9±0.3	-4.1±0.2	-0.38±0.01	-1.70±0.02	1.152±0.007	1.128±0.007	-0.081±0.004	-0.217±0.006
21.4	10.8±0.3	-4.0±0.2	-0.36±0.01	-1.72±0.02	1.166±0.007	1.143±0.007	-0.080±0.004	-0.217±0.006
24.0	10.6±0.3	-4.0±0.2	-0.33±0.01	-1.72±0.02	1.177±0.007	1.154±0.007	-0.080±0.004	-0.217±0.006
26.5	10.6±0.3	-4.0±0.2	-0.32±0.01	-1.71±0.02	1.180±0.007	1.157±0.007	-0.082±0.004	-0.216±0.007
29.1	10.5±0.3	-3.8±0.2	-0.29±0.01	-1.73±0.02	1.201±0.007	1.178±0.007	-0.079±0.004	-0.219±0.007
31.6	10.5±0.3	-3.8±0.2	-0.27±0.01	-1.73±0.02	1.207±0.007	1.184±0.007	-0.078±0.004	-0.219±0.007
34.1	10.5±0.3	-3.7±0.2	-0.25±0.01	-1.74±0.02	1.220±0.007	1.197±0.007	-0.077±0.004	-0.223±0.007
36.7	10.5±0.3	-3.6±0.2	-0.23±0.01	-1.73±0.02	1.225±0.007	1.203±0.007	-0.076±0.004	-0.222±0.007
39.2	10.5±0.3	-3.5±0.2	-0.21±0.01	-1.74±0.02	1.236±0.007	1.213±0.007	-0.075±0.004	-0.225±0.007
44.3	10.5±0.3	-3.3±0.2	-0.17±0.01	-1.75±0.02	1.255±0.007	1.232±0.007	-0.071±0.004	-0.228±0.007
49.4	10.5±0.3	-3.0±0.2	-0.15±0.01	-1.77±0.02	1.272±0.007	1.249±0.007	-0.066±0.004	-0.231±0.007
54.5	10.5±0.3	-2.8±0.2	-0.12±0.01	-1.78±0.02	1.289±0.007	1.266±0.007	-0.062±0.004	-0.234±0.007
59.5	10.4±0.3	-2.5±0.2	-0.08±0.01	-1.78±0.02	1.304±0.007	1.282±0.007	-0.057±0.003	-0.235±0.007
64.6	10.4±0.3	-2.3±0.2	-0.05±0.01	-1.79±0.02	1.318±0.007	1.296±0.007	-0.051±0.003	-0.237±0.007
69.7	10.4±0.3	-2.0±0.1	-0.03±0.01	-1.80±0.02	1.331±0.007	1.308±0.007	-0.046±0.003	-0.240±0.007
74.8	10.4±0.3	-1.8±0.1	-0.01±0.01	-1.80±0.02	1.337±0.007	1.315±0.007	-0.040±0.003	-0.242±0.007
79.9	10.5±0.3	-1.5±0.1	-0.01±0.01	-1.81±0.02	1.344±0.007	1.321±0.007	-0.034±0.003	-0.245±0.007
84.9	10.6±0.3	-1.3±0.1	0.01±0.01	-1.82±0.02	1.350±0.007	1.326±0.007	-0.030±0.003	-0.248±0.007
90.0	10.7±0.3	-1.0±0.1	0.01±0.01	-1.82±0.02	1.352±0.007	1.328±0.007	-0.023±0.003	-0.251±0.007
100.2	10.9±0.3	-0.6±0.1	0.01±0.01	-1.83±0.02	1.356±0.007	1.331±0.007	-0.014±0.003	-0.256±0.007
110.3	11.0±0.3	-0.2±0.1	0.01±0.01	-1.83±0.02	1.357±0.007	1.333±0.007	-0.006±0.003	-0.258±0.007
120.5	11.0±0.3	0.1±0.1	0.01±0.01	-1.83±0.02	1.358±0.007	1.333±0.007	0.003±0.003	-0.260±0.007
130.7	11.1±0.3	0.4±0.1	0.01±0.01	-1.83±0.02	1.357±0.007	1.332±0.007	0.009±0.003	-0.262±0.007
140.8	11.1±0.3	0.6±0.1	0.01±0.01	-1.83±0.02	1.356±0.007	1.331±0.007	0.014±0.003	-0.260±0.007

Table B.17 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(-27 mm,-174 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.7±0.3	1.5±0.5	-0.73±0.01	-1.22±0.02	0.697±0.007	0.693±0.007	0.018±0.006	-0.069±0.004
4.7	5.3±0.3	0.9±0.5	-0.70±0.01	-1.22±0.02	0.724±0.007	0.721±0.007	0.012±0.006	-0.066±0.004
5.7	5.0±0.3	0.5±0.4	-0.66±0.01	-1.23±0.02	0.751±0.007	0.748±0.007	0.006±0.006	-0.066±0.004
6.7	4.7±0.3	0.4±0.4	-0.64±0.01	-1.24±0.02	0.775±0.007	0.772±0.007	0.006±0.006	-0.064±0.004
7.7	4.5±0.3	0.3±0.4	-0.60±0.01	-1.22±0.02	0.785±0.007	0.783±0.007	0.005±0.006	-0.062±0.004
8.7	4.4±0.3	0.3±0.4	-0.58±0.01	-1.23±0.02	0.804±0.007	0.802±0.007	0.005±0.005	-0.061±0.004
9.8	4.2±0.3	0.3±0.4	-0.56±0.01	-1.22±0.02	0.813±0.007	0.811±0.007	0.005±0.005	-0.060±0.005
10.8	4.1±0.3	0.3±0.4	-0.54±0.01	-1.22±0.02	0.823±0.007	0.821±0.007	0.005±0.005	-0.059±0.005
11.8	4.0±0.3	0.3±0.4	-0.53±0.01	-1.22±0.02	0.834±0.007	0.832±0.007	0.005±0.005	-0.058±0.005
12.8	3.9±0.3	0.3±0.4	-0.52±0.01	-1.24±0.02	0.846±0.007	0.844±0.007	0.004±0.005	-0.057±0.005
13.8	3.7±0.3	0.3±0.3	-0.50±0.01	-1.23±0.02	0.851±0.007	0.849±0.007	0.005±0.005	-0.055±0.005
16.4	3.5±0.3	0.4±0.3	-0.47±0.01	-1.22±0.02	0.871±0.006	0.870±0.006	0.005±0.005	-0.054±0.005
18.9	3.3±0.3	0.3±0.3	-0.44±0.01	-1.23±0.02	0.888±0.006	0.886±0.006	0.005±0.005	-0.051±0.005
21.4	3.1±0.3	0.4±0.3	-0.41±0.01	-1.22±0.02	0.903±0.006	0.902±0.006	0.006±0.005	-0.049±0.005
24.0	3.0±0.3	0.3±0.3	-0.38±0.01	-1.23±0.02	0.917±0.006	0.916±0.006	0.006±0.005	-0.047±0.005
26.5	2.9±0.3	0.4±0.3	-0.36±0.01	-1.22±0.02	0.930±0.006	0.929±0.006	0.006±0.005	-0.047±0.005
29.1	2.8±0.3	0.4±0.3	-0.33±0.01	-1.22±0.02	0.943±0.006	0.942±0.006	0.006±0.005	-0.046±0.005
31.6	2.7±0.3	0.4±0.3	-0.32±0.01	-1.23±0.02	0.954±0.006	0.953±0.006	0.007±0.005	-0.044±0.005
34.1	2.6±0.3	0.4±0.3	-0.29±0.01	-1.23±0.02	0.969±0.006	0.968±0.006	0.007±0.005	-0.043±0.005
36.7	2.5±0.3	0.4±0.3	-0.26±0.01	-1.22±0.02	0.977±0.006	0.976±0.006	0.007±0.005	-0.042±0.005
39.2	2.4±0.3	0.5±0.3	-0.24±0.01	-1.23±0.02	0.991±0.006	0.990±0.006	0.008±0.004	-0.041±0.005
44.3	2.3±0.3	0.5±0.2	-0.21±0.01	-1.22±0.02	1.008±0.006	1.008±0.006	0.008±0.004	-0.040±0.006
49.4	2.2±0.3	0.6±0.2	-0.16±0.01	-1.22±0.02	1.029±0.007	1.028±0.006	0.010±0.004	-0.039±0.006
54.5	2.1±0.3	0.6±0.2	-0.12±0.01	-1.23±0.02	1.050±0.007	1.050±0.007	0.011±0.004	-0.038±0.006
59.5	2.0±0.3	0.7±0.2	-0.09±0.01	-1.23±0.02	1.069±0.007	1.068±0.007	0.012±0.004	-0.038±0.006
64.6	2.0±0.3	0.6±0.2	-0.06±0.01	-1.22±0.02	1.080±0.007	1.080±0.007	0.012±0.004	-0.038±0.006
69.7	1.9±0.3	0.7±0.2	-0.03±0.01	-1.22±0.02	1.091±0.007	1.090±0.007	0.014±0.004	-0.037±0.006
74.8	1.9±0.3	0.8±0.2	-0.01±0.01	-1.22±0.02	1.100±0.007	1.100±0.007	0.015±0.004	-0.037±0.006
79.9	2.0±0.3	0.8±0.2	0.00±0.01	-1.22±0.02	1.105±0.007	1.104±0.007	0.015±0.004	-0.038±0.006
84.9	1.9±0.3	0.8±0.2	0.01±0.01	-1.22±0.02	1.108±0.007	1.107±0.007	0.016±0.004	-0.038±0.006
90.0	1.9±0.3	0.8±0.2	0.01±0.01	-1.22±0.02	1.110±0.007	1.109±0.007	0.016±0.004	-0.037±0.006
100.2	1.9±0.3	0.8±0.2	0.01±0.01	-1.22±0.02	1.110±0.007	1.110±0.007	0.016±0.004	-0.038±0.006
110.3	1.9±0.3	0.8±0.2	0.01±0.01	-1.22±0.02	1.110±0.007	1.109±0.007	0.016±0.004	-0.038±0.006
120.5	2.0±0.3	0.9±0.2	0.01±0.01	-1.22±0.02	1.110±0.007	1.110±0.007	0.018±0.004	-0.039±0.006
130.7	2.1±0.3	1.0±0.2	0.01±0.01	-1.22±0.02	1.110±0.007	1.109±0.007	0.020±0.004	-0.040±0.006
140.8	2.0±0.3	1.0±0.2	0.01±0.01	-1.22±0.02	1.110±0.007	1.109±0.007	0.020±0.004	-0.038±0.006

Table B.18 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(-18 mm,-151 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.9±0.3	1.8±0.5	-0.71±0.01	-1.22±0.02	0.720±0.007	0.714±0.007	0.023±0.006	-0.086±0.004
4.7	6.6±0.3	0.9±0.5	-0.67±0.01	-1.23±0.02	0.743±0.007	0.738±0.007	0.012±0.006	-0.085±0.004
5.7	6.3±0.3	0.7±0.4	-0.64±0.01	-1.22±0.02	0.763±0.007	0.758±0.007	0.010±0.006	-0.084±0.004
6.7	6.0±0.3	0.5±0.4	-0.61±0.01	-1.23±0.02	0.784±0.007	0.780±0.007	0.006±0.006	-0.082±0.004
7.7	5.8±0.3	0.4±0.4	-0.59±0.01	-1.23±0.02	0.800±0.007	0.796±0.007	0.006±0.006	-0.080±0.004
8.7	5.5±0.3	0.4±0.4	-0.57±0.01	-1.23±0.02	0.813±0.007	0.809±0.007	0.005±0.005	-0.079±0.005
9.8	5.3±0.3	0.4±0.4	-0.55±0.01	-1.23±0.02	0.827±0.007	0.824±0.007	0.005±0.005	-0.077±0.005
10.8	5.1±0.3	0.4±0.4	-0.53±0.01	-1.23±0.02	0.835±0.007	0.832±0.007	0.005±0.005	-0.075±0.005
11.8	5.0±0.3	0.4±0.4	-0.51±0.01	-1.22±0.02	0.845±0.007	0.842±0.007	0.005±0.005	-0.073±0.005
12.8	4.9±0.3	0.3±0.3	-0.50±0.01	-1.23±0.02	0.853±0.007	0.850±0.006	0.005±0.005	-0.072±0.005
13.8	4.8±0.3	0.4±0.3	-0.48±0.01	-1.23±0.02	0.861±0.006	0.858±0.006	0.005±0.005	-0.072±0.005
16.4	4.6±0.3	0.4±0.3	-0.45±0.01	-1.23±0.02	0.880±0.006	0.877±0.006	0.005±0.005	-0.070±0.005
18.9	4.3±0.3	0.4±0.3	-0.43±0.01	-1.23±0.02	0.893±0.006	0.890±0.006	0.006±0.005	-0.067±0.005
21.4	4.2±0.3	0.4±0.3	-0.40±0.01	-1.23±0.02	0.908±0.006	0.905±0.006	0.006±0.005	-0.067±0.005
24.0	4.0±0.3	0.4±0.3	-0.38±0.01	-1.22±0.02	0.921±0.006	0.919±0.006	0.006±0.005	-0.064±0.005
26.5	3.9±0.3	0.4±0.3	-0.35±0.01	-1.22±0.02	0.935±0.006	0.933±0.006	0.006±0.005	-0.063±0.005
29.1	3.7±0.3	0.4±0.3	-0.33±0.01	-1.22±0.02	0.946±0.006	0.944±0.006	0.006±0.005	-0.061±0.005
31.6	3.6±0.3	0.4±0.3	-0.30±0.01	-1.22±0.02	0.959±0.006	0.957±0.006	0.007±0.005	-0.060±0.005
34.1	3.5±0.3	0.4±0.3	-0.28±0.01	-1.23±0.02	0.972±0.006	0.970±0.006	0.007±0.005	-0.060±0.005
36.7	3.3±0.3	0.4±0.3	-0.26±0.01	-1.22±0.02	0.982±0.006	0.980±0.006	0.007±0.004	-0.057±0.005
39.2	3.3±0.3	0.5±0.3	-0.24±0.01	-1.22±0.02	0.993±0.006	0.991±0.006	0.008±0.004	-0.057±0.005
44.3	3.1±0.3	0.5±0.2	-0.20±0.01	-1.22±0.02	1.013±0.006	1.012±0.006	0.008±0.004	-0.055±0.006
49.4	2.9±0.3	0.6±0.2	-0.16±0.01	-1.22±0.02	1.031±0.007	1.030±0.007	0.011±0.004	-0.053±0.006
54.5	2.8±0.3	0.6±0.2	-0.12±0.01	-1.22±0.02	1.050±0.007	1.049±0.007	0.012±0.004	-0.052±0.006
59.5	2.7±0.3	0.7±0.2	-0.08±0.01	-1.22±0.02	1.066±0.007	1.064±0.007	0.012±0.004	-0.051±0.006
64.6	2.7±0.3	0.7±0.2	-0.05±0.01	-1.22±0.02	1.080±0.007	1.078±0.007	0.013±0.004	-0.050±0.006
69.7	2.6±0.3	0.8±0.2	-0.03±0.01	-1.22±0.02	1.093±0.007	1.092±0.007	0.015±0.004	-0.049±0.006
74.8	2.6±0.3	0.8±0.2	-0.01±0.01	-1.22±0.02	1.100±0.007	1.099±0.007	0.016±0.004	-0.050±0.006
79.9	2.6±0.3	0.8±0.2	0.00±0.01	-1.22±0.02	1.104±0.007	1.103±0.007	0.016±0.004	-0.050±0.006
84.9	2.6±0.3	0.8±0.2	0.01±0.01	-1.22±0.02	1.108±0.007	1.106±0.007	0.016±0.004	-0.050±0.006
90.0	2.6±0.3	0.9±0.2	0.01±0.01	-1.22±0.02	1.108±0.007	1.107±0.007	0.017±0.004	-0.050±0.006
100.2	2.7±0.3	1.0±0.2	0.01±0.01	-1.22±0.02	1.109±0.007	1.108±0.007	0.019±0.004	-0.051±0.006
110.3	2.7±0.3	1.1±0.2	0.01±0.01	-1.22±0.02	1.109±0.007	1.108±0.007	0.020±0.004	-0.053±0.006
120.5	2.7±0.3	1.1±0.2	0.01±0.01	-1.22±0.02	1.109±0.007	1.108±0.007	0.021±0.004	-0.053±0.006
130.7	2.7±0.3	1.2±0.2	0.01±0.01	-1.22±0.02	1.108±0.007	1.107±0.007	0.022±0.004	-0.053±0.006
140.8	2.7±0.3	1.2±0.2	0.01±0.01	-1.22±0.02	1.108±0.007	1.107±0.007	0.023±0.004	-0.053±0.006

Table B.19 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(-9 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	9.2±0.3	2.0±0.5	-0.75±0.01	-1.24±0.02	0.699±0.007	0.689±0.007	0.024±0.006	-0.112±0.004
4.7	8.7±0.3	1.4±0.5	-0.73±0.01	-1.25±0.02	0.724±0.007	0.715±0.007	0.018±0.006	-0.110±0.004
5.7	8.4±0.3	1.0±0.5	-0.70±0.01	-1.26±0.02	0.747±0.007	0.739±0.007	0.013±0.006	-0.109±0.004
6.7	8.0±0.3	0.9±0.4	-0.67±0.01	-1.25±0.02	0.763±0.007	0.756±0.007	0.011±0.006	-0.107±0.004
7.7	7.7±0.3	0.6±0.4	-0.63±0.01	-1.25±0.02	0.785±0.007	0.778±0.007	0.008±0.006	-0.105±0.004
8.7	7.3±0.3	0.6±0.4	-0.61±0.01	-1.25±0.02	0.800±0.007	0.793±0.007	0.008±0.006	-0.102±0.004
9.8	7.1±0.3	0.5±0.4	-0.59±0.01	-1.26±0.02	0.817±0.007	0.811±0.007	0.007±0.005	-0.101±0.005
10.8	6.9±0.3	0.5±0.4	-0.57±0.01	-1.26±0.02	0.831±0.007	0.825±0.007	0.006±0.005	-0.099±0.005
11.8	6.7±0.3	0.4±0.4	-0.55±0.01	-1.25±0.02	0.840±0.007	0.835±0.007	0.006±0.005	-0.098±0.005
12.8	6.5±0.3	0.5±0.3	-0.53±0.01	-1.26±0.02	0.853±0.007	0.848±0.006	0.007±0.005	-0.097±0.005
13.8	6.4±0.3	0.4±0.3	-0.51±0.01	-1.25±0.02	0.864±0.006	0.859±0.006	0.007±0.005	-0.096±0.005
16.4	6.0±0.3	0.4±0.3	-0.48±0.01	-1.25±0.02	0.877±0.006	0.873±0.006	0.007±0.005	-0.092±0.005
18.9	5.7±0.3	0.4±0.3	-0.45±0.01	-1.25±0.02	0.893±0.006	0.888±0.006	0.007±0.005	-0.089±0.005
21.4	5.5±0.3	0.4±0.3	-0.42±0.01	-1.25±0.02	0.914±0.006	0.910±0.006	0.007±0.005	-0.088±0.005
24.0	5.3±0.3	0.4±0.3	-0.39±0.01	-1.25±0.02	0.926±0.006	0.922±0.006	0.007±0.005	-0.085±0.005
26.5	5.1±0.3	0.4±0.3	-0.37±0.01	-1.25±0.02	0.940±0.006	0.936±0.006	0.007±0.005	-0.083±0.005
29.1	5.0±0.3	0.4±0.3	-0.34±0.01	-1.25±0.02	0.955±0.006	0.951±0.006	0.007±0.005	-0.083±0.005
31.6	4.8±0.3	0.4±0.3	-0.31±0.01	-1.25±0.02	0.966±0.006	0.963±0.006	0.008±0.005	-0.080±0.005
34.1	4.7±0.3	0.5±0.3	-0.29±0.01	-1.25±0.02	0.980±0.006	0.977±0.006	0.008±0.004	-0.080±0.005
36.7	4.5±0.3	0.4±0.3	-0.27±0.01	-1.25±0.02	0.990±0.006	0.987±0.006	0.008±0.004	-0.078±0.005
39.2	4.4±0.3	0.5±0.3	-0.25±0.01	-1.25±0.02	1.001±0.006	0.998±0.006	0.008±0.004	-0.077±0.006
44.3	4.2±0.3	0.5±0.2	-0.21±0.01	-1.26±0.02	1.025±0.006	1.022±0.006	0.008±0.004	-0.075±0.006
49.4	4.1±0.3	0.6±0.2	-0.17±0.01	-1.25±0.02	1.041±0.007	1.038±0.007	0.010±0.004	-0.074±0.006
54.5	3.9±0.3	0.6±0.2	-0.13±0.01	-1.25±0.02	1.060±0.007	1.057±0.007	0.011±0.004	-0.072±0.006
59.5	3.7±0.3	0.6±0.2	-0.09±0.01	-1.25±0.02	1.074±0.007	1.072±0.007	0.012±0.004	-0.070±0.006
64.6	3.7±0.3	0.6±0.2	-0.06±0.01	-1.25±0.02	1.090±0.007	1.088±0.007	0.012±0.004	-0.070±0.006
69.7	3.6±0.3	0.7±0.2	-0.04±0.01	-1.25±0.02	1.102±0.007	1.100±0.007	0.013±0.004	-0.070±0.006
74.8	3.6±0.3	0.8±0.2	-0.01±0.01	-1.24±0.02	1.110±0.007	1.107±0.007	0.016±0.004	-0.069±0.006
79.9	3.6±0.3	0.8±0.2	-0.01±0.01	-1.25±0.02	1.117±0.007	1.115±0.007	0.016±0.004	-0.070±0.006
84.9	3.6±0.3	0.8±0.2	0.01±0.01	-1.25±0.02	1.120±0.007	1.117±0.007	0.016±0.004	-0.070±0.006
90.0	3.6±0.3	0.9±0.2	0.01±0.01	-1.25±0.02	1.122±0.007	1.119±0.007	0.018±0.004	-0.070±0.006
100.2	3.7±0.3	1.0±0.2	0.01±0.01	-1.25±0.02	1.123±0.007	1.120±0.007	0.020±0.004	-0.072±0.006
110.3	3.7±0.3	1.1±0.2	0.01±0.01	-1.25±0.02	1.123±0.007	1.120±0.007	0.021±0.004	-0.073±0.006
120.5	3.8±0.3	1.2±0.2	0.01±0.01	-1.25±0.02	1.122±0.007	1.120±0.007	0.023±0.004	-0.074±0.006
130.7	3.7±0.3	1.2±0.2	0.01±0.01	-1.25±0.02	1.122±0.007	1.120±0.007	0.024±0.004	-0.073±0.006
140.8	3.7±0.3	1.3±0.2	0.01±0.01	-1.25±0.02	1.122±0.007	1.119±0.007	0.026±0.004	-0.073±0.006

Table B.20 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(-5 mm,-115 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	11.4±0.3	1.8±0.5	-0.71±0.01	-1.26±0.02	0.744±0.007	0.729±0.007	0.024±0.006	-0.146±0.004
4.7	10.8±0.3	1.0±0.4	-0.68±0.01	-1.26±0.02	0.764±0.007	0.750±0.007	0.013±0.006	-0.143±0.004
5.7	10.2±0.3	0.7±0.4	-0.65±0.01	-1.26±0.02	0.777±0.007	0.765±0.007	0.009±0.006	-0.138±0.004
6.7	9.7±0.3	0.5±0.4	-0.63±0.01	-1.27±0.02	0.796±0.007	0.785±0.007	0.006±0.006	-0.134±0.004
7.7	9.1±0.3	0.4±0.4	-0.62±0.01	-1.27±0.02	0.806±0.007	0.796±0.007	0.005±0.005	-0.127±0.005
8.7	8.6±0.3	0.3±0.4	-0.59±0.01	-1.26±0.02	0.818±0.007	0.808±0.007	0.005±0.005	-0.122±0.005
9.8	8.3±0.3	0.3±0.4	-0.57±0.01	-1.26±0.02	0.828±0.007	0.819±0.007	0.005±0.005	-0.119±0.005
10.8	7.9±0.3	0.4±0.4	-0.55±0.01	-1.25±0.02	0.842±0.007	0.834±0.007	0.005±0.005	-0.116±0.005
11.8	7.7±0.3	0.3±0.4	-0.54±0.01	-1.26±0.02	0.851±0.007	0.843±0.006	0.005±0.005	-0.114±0.005
12.8	7.4±0.3	0.4±0.3	-0.52±0.01	-1.26±0.02	0.860±0.007	0.852±0.006	0.005±0.005	-0.111±0.005
13.8	7.3±0.3	0.4±0.3	-0.51±0.01	-1.27±0.02	0.872±0.007	0.864±0.006	0.005±0.005	-0.111±0.005
16.4	6.8±0.3	0.4±0.3	-0.47±0.01	-1.26±0.02	0.887±0.006	0.880±0.006	0.006±0.005	-0.105±0.005
18.9	6.6±0.3	0.4±0.3	-0.44±0.01	-1.26±0.02	0.903±0.006	0.897±0.006	0.006±0.005	-0.103±0.005
21.4	6.2±0.3	0.4±0.3	-0.41±0.01	-1.26±0.02	0.919±0.006	0.914±0.006	0.007±0.005	-0.100±0.005
24.0	6.1±0.3	0.4±0.3	-0.39±0.01	-1.27±0.02	0.934±0.006	0.929±0.006	0.007±0.005	-0.099±0.005
26.5	5.8±0.3	0.5±0.3	-0.37±0.01	-1.26±0.02	0.945±0.006	0.940±0.006	0.007±0.005	-0.096±0.005
29.1	5.6±0.3	0.4±0.3	-0.34±0.01	-1.25±0.02	0.957±0.006	0.952±0.006	0.007±0.005	-0.094±0.005
31.6	5.5±0.3	0.4±0.3	-0.32±0.01	-1.26±0.02	0.970±0.006	0.966±0.006	0.007±0.005	-0.093±0.005
34.1	5.4±0.3	0.4±0.3	-0.29±0.01	-1.26±0.02	0.985±0.006	0.980±0.006	0.007±0.004	-0.092±0.005
36.7	5.2±0.3	0.5±0.3	-0.27±0.01	-1.26±0.02	0.994±0.006	0.990±0.006	0.008±0.004	-0.091±0.005
39.2	5.1±0.3	0.4±0.2	-0.25±0.01	-1.27±0.02	1.010±0.006	1.006±0.006	0.008±0.004	-0.090±0.006
44.3	4.8±0.3	0.4±0.2	-0.21±0.01	-1.26±0.02	1.027±0.007	1.024±0.007	0.008±0.004	-0.087±0.006
49.4	4.6±0.3	0.5±0.2	-0.17±0.01	-1.26±0.02	1.046±0.007	1.043±0.007	0.008±0.004	-0.084±0.006
54.5	4.5±0.3	0.5±0.2	-0.13±0.01	-1.26±0.02	1.063±0.007	1.060±0.007	0.010±0.004	-0.084±0.006
59.5	4.4±0.3	0.6±0.2	-0.09±0.01	-1.26±0.02	1.079±0.007	1.076±0.007	0.011±0.004	-0.083±0.006
64.6	4.3±0.3	0.6±0.2	-0.06±0.01	-1.26±0.02	1.093±0.007	1.090±0.007	0.012±0.004	-0.082±0.006
69.7	4.2±0.3	0.6±0.2	-0.04±0.01	-1.25±0.02	1.102±0.007	1.099±0.007	0.012±0.004	-0.081±0.006
74.8	4.2±0.3	0.7±0.2	-0.02±0.01	-1.26±0.02	1.113±0.007	1.110±0.007	0.014±0.004	-0.082±0.006
79.9	4.2±0.3	0.8±0.2	0.00±0.01	-1.26±0.02	1.120±0.007	1.116±0.007	0.016±0.004	-0.082±0.006
84.9	4.3±0.3	0.8±0.2	0.00±0.01	-1.26±0.02	1.123±0.007	1.120±0.007	0.016±0.004	-0.083±0.006
90.0	4.3±0.3	0.9±0.2	0.01±0.01	-1.26±0.02	1.125±0.007	1.122±0.007	0.017±0.004	-0.084±0.006
100.2	4.4±0.3	1.0±0.2	0.01±0.01	-1.26±0.02	1.127±0.007	1.123±0.007	0.020±0.004	-0.086±0.006
110.3	4.4±0.3	1.2±0.2	0.01±0.01	-1.26±0.02	1.126±0.007	1.122±0.007	0.023±0.004	-0.087±0.006
120.5	4.4±0.3	1.2±0.2	0.01±0.01	-1.25±0.02	1.126±0.007	1.122±0.007	0.024±0.004	-0.086±0.006
130.7	4.4±0.3	1.3±0.2	0.01±0.01	-1.26±0.02	1.126±0.007	1.122±0.007	0.026±0.004	-0.086±0.006
140.8	4.4±0.3	1.4±0.2	0.01±0.01	-1.25±0.02	1.125±0.007	1.121±0.007	0.028±0.004	-0.086±0.006

Table B.21 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(0 mm,-103 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	13.0±0.3	2.2±0.4	-0.69±0.01	-1.28±0.02	0.764±0.007	0.744±0.007	0.029±0.006	-0.171±0.004
4.7	12.3±0.3	1.3±0.4	-0.67±0.01	-1.28±0.02	0.782±0.007	0.764±0.007	0.018±0.006	-0.166±0.004
5.7	11.7±0.3	1.1±0.4	-0.64±0.01	-1.29±0.02	0.800±0.007	0.784±0.007	0.015±0.006	-0.163±0.005
6.7	11.0±0.3	0.8±0.4	-0.63±0.01	-1.29±0.02	0.813±0.007	0.797±0.007	0.012±0.005	-0.156±0.005
7.7	10.6±0.3	0.7±0.4	-0.60±0.01	-1.28±0.02	0.824±0.007	0.810±0.006	0.010±0.005	-0.152±0.005
8.7	10.2±0.3	0.6±0.4	-0.58±0.01	-1.29±0.02	0.837±0.007	0.824±0.006	0.009±0.005	-0.149±0.005
9.8	9.9±0.3	0.5±0.4	-0.57±0.01	-1.28±0.02	0.846±0.007	0.833±0.006	0.007±0.005	-0.146±0.005
10.8	9.5±0.3	0.5±0.3	-0.55±0.01	-1.28±0.02	0.855±0.007	0.843±0.006	0.007±0.005	-0.142±0.005
11.8	9.2±0.3	0.4±0.3	-0.54±0.01	-1.28±0.02	0.863±0.006	0.852±0.006	0.007±0.005	-0.138±0.005
12.8	9.0±0.3	0.4±0.3	-0.52±0.01	-1.29±0.02	0.875±0.006	0.864±0.006	0.007±0.005	-0.137±0.005
13.8	8.8±0.3	0.5±0.3	-0.51±0.01	-1.29±0.02	0.883±0.006	0.872±0.006	0.007±0.005	-0.135±0.005
16.4	8.3±0.3	0.4±0.3	-0.48±0.01	-1.29±0.02	0.898±0.006	0.889±0.006	0.007±0.005	-0.130±0.005
18.9	7.9±0.3	0.5±0.3	-0.46±0.01	-1.28±0.02	0.909±0.006	0.900±0.006	0.007±0.005	-0.125±0.005
21.4	7.6±0.3	0.4±0.3	-0.42±0.01	-1.28±0.02	0.927±0.006	0.919±0.006	0.007±0.005	-0.122±0.005
24.0	7.3±0.3	0.4±0.3	-0.40±0.01	-1.28±0.02	0.942±0.006	0.934±0.006	0.007±0.005	-0.119±0.005
26.5	7.0±0.3	0.4±0.3	-0.37±0.01	-1.28±0.02	0.955±0.006	0.947±0.006	0.007±0.005	-0.116±0.005
29.1	6.8±0.3	0.4±0.3	-0.35±0.01	-1.29±0.02	0.968±0.006	0.962±0.006	0.007±0.005	-0.114±0.005
31.6	6.6±0.3	0.4±0.3	-0.33±0.01	-1.29±0.02	0.980±0.006	0.974±0.006	0.007±0.004	-0.113±0.005
34.1	6.4±0.3	0.4±0.3	-0.30±0.01	-1.28±0.02	0.990±0.006	0.984±0.006	0.007±0.004	-0.110±0.005
36.7	6.3±0.3	0.4±0.3	-0.28±0.01	-1.28±0.02	1.001±0.006	0.995±0.006	0.007±0.004	-0.109±0.006
39.2	6.1±0.3	0.4±0.2	-0.26±0.01	-1.28±0.02	1.013±0.006	1.008±0.006	0.007±0.004	-0.108±0.006
44.3	5.9±0.3	0.4±0.2	-0.21±0.01	-1.28±0.02	1.033±0.007	1.028±0.006	0.007±0.004	-0.106±0.006
49.4	5.6±0.3	0.4±0.2	-0.17±0.01	-1.28±0.02	1.055±0.007	1.050±0.007	0.007±0.004	-0.104±0.006
54.5	5.5±0.3	0.4±0.2	-0.13±0.01	-1.28±0.02	1.073±0.007	1.068±0.007	0.008±0.004	-0.103±0.006
59.5	5.4±0.3	0.4±0.2	-0.10±0.01	-1.29±0.02	1.088±0.007	1.083±0.007	0.008±0.004	-0.101±0.006
64.6	5.3±0.3	0.4±0.2	-0.07±0.01	-1.28±0.02	1.103±0.007	1.098±0.007	0.008±0.004	-0.101±0.006
69.7	5.3±0.3	0.4±0.2	-0.04±0.01	-1.28±0.02	1.114±0.007	1.109±0.007	0.008±0.004	-0.102±0.006
74.8	5.3±0.3	0.5±0.2	-0.02±0.01	-1.28±0.02	1.122±0.007	1.117±0.007	0.011±0.004	-0.103±0.006
79.9	5.2±0.3	0.6±0.2	-0.01±0.01	-1.28±0.02	1.129±0.007	1.124±0.007	0.012±0.004	-0.103±0.006
84.9	5.3±0.3	0.6±0.2	0.00±0.01	-1.28±0.02	1.134±0.007	1.129±0.007	0.013±0.004	-0.105±0.006
90.0	5.3±0.3	0.7±0.2	0.01±0.01	-1.28±0.02	1.135±0.007	1.130±0.007	0.014±0.004	-0.104±0.006
100.2	5.4±0.3	0.8±0.2	0.01±0.01	-1.28±0.02	1.136±0.007	1.131±0.007	0.016±0.004	-0.107±0.006
110.3	5.5±0.3	1.0±0.2	0.01±0.01	-1.28±0.02	1.137±0.007	1.131±0.007	0.019±0.004	-0.109±0.006
120.5	5.5±0.3	1.1±0.2	0.01±0.01	-1.28±0.02	1.136±0.007	1.131±0.007	0.022±0.004	-0.109±0.006
130.7	5.5±0.3	1.2±0.2	0.01±0.01	-1.28±0.02	1.136±0.007	1.130±0.007	0.024±0.004	-0.108±0.006
140.8	5.4±0.3	1.4±0.2	0.01±0.01	-1.28±0.02	1.135±0.007	1.130±0.007	0.028±0.004	-0.107±0.006

Table B.22 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(2 mm,-97 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	13.9±0.3	2.2±0.4	-0.70±0.01	-1.29±0.02	0.774±0.007	0.750±0.007	0.029±0.006	-0.186±0.004
4.7	13.1±0.3	1.6±0.4	-0.67±0.01	-1.29±0.02	0.789±0.007	0.768±0.007	0.022±0.006	-0.179±0.004
5.7	12.5±0.3	1.2±0.4	-0.64±0.01	-1.29±0.02	0.807±0.007	0.788±0.006	0.017±0.005	-0.174±0.005
6.7	11.8±0.3	1.0±0.4	-0.62±0.01	-1.29±0.02	0.818±0.007	0.801±0.006	0.013±0.005	-0.168±0.005
7.7	11.3±0.3	0.8±0.4	-0.60±0.01	-1.30±0.02	0.835±0.007	0.818±0.006	0.012±0.005	-0.164±0.005
8.7	10.8±0.3	0.8±0.4	-0.58±0.01	-1.29±0.02	0.843±0.007	0.828±0.006	0.012±0.005	-0.159±0.005
9.8	10.5±0.3	0.7±0.4	-0.55±0.01	-1.28±0.02	0.852±0.006	0.838±0.006	0.010±0.005	-0.156±0.005
10.8	10.1±0.3	0.7±0.3	-0.54±0.01	-1.28±0.02	0.862±0.006	0.849±0.006	0.010±0.005	-0.152±0.005
11.8	9.8±0.3	0.6±0.3	-0.53±0.01	-1.29±0.02	0.874±0.006	0.861±0.006	0.009±0.005	-0.149±0.005
12.8	9.5±0.3	0.6±0.3	-0.52±0.01	-1.30±0.02	0.879±0.006	0.867±0.006	0.009±0.005	-0.146±0.005
13.8	9.3±0.3	0.5±0.3	-0.50±0.01	-1.29±0.02	0.887±0.006	0.875±0.006	0.008±0.005	-0.144±0.005
16.4	8.8±0.3	0.5±0.3	-0.47±0.01	-1.29±0.02	0.906±0.006	0.895±0.006	0.008±0.005	-0.139±0.005
18.9	8.4±0.3	0.5±0.3	-0.44±0.01	-1.30±0.02	0.925±0.006	0.915±0.006	0.007±0.005	-0.134±0.005
21.4	8.0±0.3	0.4±0.3	-0.42±0.01	-1.30±0.02	0.936±0.006	0.926±0.006	0.007±0.005	-0.131±0.005
24.0	7.7±0.3	0.4±0.3	-0.39±0.01	-1.29±0.02	0.948±0.006	0.939±0.006	0.007±0.005	-0.127±0.005
26.5	7.5±0.3	0.4±0.3	-0.37±0.01	-1.29±0.02	0.960±0.006	0.952±0.006	0.007±0.005	-0.125±0.005
29.1	7.2±0.3	0.4±0.3	-0.34±0.01	-1.28±0.02	0.972±0.006	0.964±0.006	0.007±0.005	-0.121±0.005
31.6	7.0±0.3	0.4±0.3	-0.33±0.01	-1.30±0.02	0.988±0.006	0.981±0.006	0.007±0.004	-0.121±0.005
34.1	6.8±0.3	0.4±0.3	-0.30±0.01	-1.29±0.02	0.998±0.006	0.991±0.006	0.007±0.004	-0.118±0.006
36.7	6.7±0.3	0.4±0.2	-0.27±0.01	-1.30±0.02	1.011±0.006	1.004±0.006	0.007±0.004	-0.118±0.006
39.2	6.5±0.3	0.4±0.2	-0.25±0.01	-1.29±0.02	1.022±0.006	1.015±0.006	0.007±0.004	-0.116±0.006
44.3	6.3±0.3	0.4±0.2	-0.21±0.01	-1.29±0.02	1.041±0.007	1.034±0.007	0.007±0.004	-0.113±0.006
49.4	6.1±0.3	0.4±0.2	-0.17±0.01	-1.29±0.02	1.059±0.007	1.053±0.007	0.007±0.004	-0.112±0.006
54.5	5.9±0.3	0.4±0.2	-0.13±0.01	-1.29±0.02	1.078±0.007	1.072±0.007	0.007±0.004	-0.111±0.006
59.5	5.8±0.3	0.4±0.2	-0.10±0.01	-1.29±0.02	1.094±0.007	1.088±0.007	0.007±0.004	-0.110±0.006
64.6	5.7±0.3	0.4±0.2	-0.06±0.01	-1.30±0.02	1.110±0.007	1.105±0.007	0.008±0.004	-0.111±0.006
69.7	5.7±0.3	0.4±0.2	-0.04±0.01	-1.29±0.02	1.119±0.007	1.114±0.007	0.008±0.004	-0.111±0.006
74.8	5.7±0.3	0.4±0.2	-0.02±0.01	-1.29±0.02	1.127±0.007	1.121±0.007	0.008±0.004	-0.111±0.006
79.9	5.7±0.3	0.6±0.2	-0.01±0.01	-1.29±0.02	1.133±0.007	1.127±0.007	0.012±0.004	-0.112±0.006
84.9	5.8±0.3	0.6±0.2	0.00±0.01	-1.29±0.02	1.138±0.007	1.132±0.007	0.012±0.004	-0.114±0.006
90.0	5.8±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.139±0.007	1.133±0.007	0.013±0.004	-0.114±0.006
100.2	5.8±0.3	0.8±0.2	0.01±0.01	-1.29±0.02	1.140±0.007	1.134±0.007	0.016±0.004	-0.116±0.006
110.3	6.0±0.3	1.0±0.2	0.01±0.01	-1.29±0.02	1.141±0.007	1.134±0.007	0.019±0.004	-0.119±0.006
120.5	5.9±0.3	1.0±0.2	0.01±0.01	-1.28±0.02	1.139±0.007	1.133±0.007	0.020±0.004	-0.118±0.006
130.7	6.0±0.3	1.2±0.2	0.01±0.01	-1.28±0.02	1.138±0.007	1.132±0.007	0.024±0.004	-0.119±0.006
140.8	6.0±0.3	1.4±0.2	0.01±0.01	-1.29±0.02	1.138±0.007	1.132±0.007	0.028±0.004	-0.118±0.006

Table B.23 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(4 mm,-91 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	15.2±0.3	2.5±0.4	-0.69±0.01	-1.30±0.02	0.782±0.007	0.753±0.007	0.033±0.006	-0.205±0.005
4.7	14.4±0.3	1.7±0.4	-0.66±0.01	-1.30±0.02	0.799±0.007	0.774±0.006	0.023±0.006	-0.198±0.005
5.7	13.6±0.3	1.4±0.4	-0.64±0.01	-1.31±0.02	0.817±0.007	0.793±0.006	0.020±0.005	-0.192±0.005
6.7	12.9±0.3	1.2±0.4	-0.62±0.01	-1.31±0.02	0.828±0.007	0.807±0.006	0.017±0.005	-0.184±0.005
7.7	12.4±0.3	1.0±0.4	-0.60±0.01	-1.31±0.02	0.840±0.007	0.820±0.006	0.015±0.005	-0.180±0.005
8.7	11.9±0.3	0.8±0.4	-0.58±0.01	-1.30±0.02	0.851±0.007	0.833±0.006	0.012±0.005	-0.175±0.005
9.8	11.4±0.3	0.8±0.3	-0.56±0.01	-1.30±0.02	0.860±0.006	0.843±0.006	0.012±0.005	-0.170±0.005
10.8	11.0±0.3	0.8±0.3	-0.54±0.01	-1.31±0.02	0.873±0.006	0.857±0.006	0.012±0.005	-0.166±0.005
11.8	10.7±0.3	0.8±0.3	-0.53±0.01	-1.31±0.02	0.883±0.006	0.868±0.006	0.012±0.005	-0.164±0.005
12.8	10.4±0.3	0.7±0.3	-0.52±0.01	-1.31±0.02	0.890±0.006	0.875±0.006	0.011±0.005	-0.161±0.005
13.8	10.1±0.3	0.7±0.3	-0.50±0.01	-1.30±0.02	0.897±0.006	0.883±0.006	0.010±0.005	-0.157±0.005
16.4	9.6±0.3	0.6±0.3	-0.48±0.01	-1.31±0.02	0.914±0.006	0.901±0.006	0.009±0.005	-0.153±0.005
18.9	9.1±0.3	0.5±0.3	-0.46±0.01	-1.32±0.02	0.929±0.006	0.917±0.006	0.008±0.005	-0.147±0.005
21.4	8.8±0.3	0.4±0.3	-0.42±0.01	-1.31±0.02	0.944±0.006	0.933±0.006	0.007±0.005	-0.145±0.005
24.0	8.4±0.3	0.4±0.3	-0.39±0.01	-1.31±0.02	0.959±0.006	0.948±0.006	0.007±0.005	-0.140±0.005
26.5	8.1±0.3	0.4±0.3	-0.37±0.01	-1.31±0.02	0.972±0.006	0.962±0.006	0.007±0.005	-0.137±0.005
29.1	7.9±0.3	0.4±0.3	-0.35±0.01	-1.32±0.02	0.985±0.006	0.976±0.006	0.007±0.004	-0.135±0.005
31.6	7.7±0.3	0.4±0.3	-0.32±0.01	-1.30±0.02	0.993±0.006	0.984±0.006	0.006±0.004	-0.132±0.005
34.1	7.5±0.3	0.3±0.2	-0.30±0.01	-1.31±0.02	1.008±0.006	0.999±0.006	0.006±0.004	-0.131±0.006
36.7	7.3±0.3	0.3±0.2	-0.28±0.01	-1.31±0.02	1.017±0.006	1.009±0.006	0.006±0.004	-0.130±0.006
39.2	7.2±0.3	0.3±0.2	-0.25±0.01	-1.30±0.02	1.025±0.006	1.017±0.006	0.004±0.004	-0.128±0.006
44.3	6.9±0.3	0.2±0.2	-0.21±0.01	-1.32±0.02	1.051±0.007	1.043±0.007	0.004±0.004	-0.126±0.006
49.4	6.7±0.3	0.2±0.2	-0.17±0.01	-1.31±0.02	1.068±0.007	1.060±0.007	0.004±0.004	-0.124±0.006
54.5	6.5±0.3	0.2±0.2	-0.13±0.01	-1.30±0.02	1.082±0.007	1.075±0.007	0.004±0.004	-0.123±0.006
59.5	6.5±0.3	0.2±0.2	-0.10±0.01	-1.31±0.02	1.099±0.007	1.092±0.007	0.004±0.004	-0.124±0.006
64.6	6.4±0.3	0.3±0.2	-0.07±0.01	-1.31±0.02	1.113±0.007	1.106±0.007	0.005±0.004	-0.123±0.006
69.7	6.3±0.3	0.3±0.2	-0.04±0.01	-1.30±0.02	1.124±0.007	1.117±0.007	0.007±0.004	-0.124±0.006
74.8	6.3±0.3	0.4±0.2	-0.02±0.01	-1.31±0.02	1.134±0.007	1.127±0.007	0.007±0.004	-0.124±0.006
79.9	6.3±0.3	0.4±0.2	-0.01±0.01	-1.31±0.02	1.141±0.007	1.134±0.007	0.008±0.004	-0.126±0.006
84.9	6.4±0.3	0.4±0.2	0.00±0.01	-1.31±0.02	1.143±0.007	1.136±0.007	0.009±0.004	-0.127±0.006
90.0	6.4±0.3	0.6±0.2	0.01±0.01	-1.30±0.02	1.146±0.007	1.138±0.007	0.012±0.004	-0.128±0.006
100.2	6.6±0.3	0.7±0.2	0.01±0.01	-1.30±0.02	1.147±0.007	1.140±0.007	0.015±0.004	-0.131±0.006
110.3	6.7±0.3	0.9±0.2	0.01±0.01	-1.31±0.02	1.147±0.007	1.140±0.007	0.017±0.004	-0.133±0.006
120.5	6.7±0.3	1.0±0.2	0.01±0.01	-1.30±0.02	1.147±0.007	1.139±0.007	0.020±0.004	-0.134±0.006
130.7	6.7±0.3	1.2±0.2	0.01±0.01	-1.30±0.02	1.146±0.007	1.138±0.007	0.024±0.004	-0.134±0.006
140.8	6.7±0.3	1.4±0.2	0.01±0.01	-1.30±0.02	1.145±0.007	1.137±0.007	0.027±0.004	-0.133±0.006

Table B.24 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(7 mm,-85 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	16.5±0.3	2.5±0.4	-0.68±0.01	-1.31±0.02	0.794±0.007	0.760±0.006	0.034±0.006	-0.226±0.005
4.7	15.4±0.3	1.9±0.4	-0.66±0.01	-1.31±0.02	0.810±0.007	0.781±0.006	0.026±0.005	-0.215±0.005
5.7	14.6±0.3	1.6±0.4	-0.64±0.01	-1.32±0.02	0.823±0.007	0.797±0.006	0.022±0.005	-0.207±0.005
6.7	13.7±0.3	1.2±0.4	-0.62±0.01	-1.32±0.02	0.836±0.007	0.812±0.006	0.018±0.005	-0.198±0.005
7.7	13.1±0.3	1.2±0.4	-0.59±0.01	-1.32±0.02	0.852±0.006	0.829±0.006	0.017±0.005	-0.193±0.005
8.7	12.5±0.3	1.1±0.3	-0.57±0.01	-1.32±0.02	0.862±0.006	0.841±0.006	0.016±0.005	-0.186±0.005
9.8	12.1±0.3	1.0±0.3	-0.56±0.01	-1.32±0.02	0.872±0.006	0.853±0.006	0.015±0.005	-0.182±0.005
10.8	11.7±0.3	0.8±0.3	-0.54±0.01	-1.31±0.02	0.881±0.006	0.863±0.006	0.012±0.005	-0.178±0.005
11.8	11.3±0.3	0.8±0.3	-0.53±0.01	-1.32±0.02	0.890±0.006	0.873±0.006	0.012±0.005	-0.174±0.005
12.8	10.9±0.3	0.8±0.3	-0.51±0.01	-1.31±0.02	0.896±0.006	0.880±0.006	0.012±0.005	-0.169±0.005
13.8	10.6±0.3	0.7±0.3	-0.49±0.01	-1.31±0.02	0.902±0.006	0.886±0.006	0.011±0.005	-0.166±0.005
16.4	10.0±0.3	0.7±0.3	-0.47±0.01	-1.33±0.02	0.927±0.006	0.913±0.006	0.010±0.005	-0.161±0.005
18.9	9.6±0.3	0.5±0.3	-0.44±0.01	-1.32±0.02	0.934±0.006	0.920±0.006	0.008±0.005	-0.156±0.005
21.4	9.2±0.3	0.4±0.3	-0.41±0.01	-1.32±0.02	0.955±0.006	0.943±0.006	0.007±0.005	-0.153±0.005
24.0	8.9±0.3	0.4±0.3	-0.38±0.01	-1.31±0.02	0.965±0.006	0.953±0.006	0.007±0.005	-0.149±0.005
26.5	8.6±0.3	0.4±0.3	-0.36±0.01	-1.32±0.02	0.979±0.006	0.968±0.006	0.007±0.004	-0.147±0.005
29.1	8.4±0.3	0.4±0.3	-0.34±0.01	-1.32±0.02	0.990±0.006	0.979±0.006	0.006±0.004	-0.144±0.005
31.6	8.1±0.3	0.3±0.3	-0.31±0.01	-1.32±0.02	1.005±0.006	0.995±0.006	0.005±0.004	-0.142±0.006
34.1	7.9±0.3	0.2±0.2	-0.29±0.01	-1.32±0.02	1.012±0.006	1.003±0.006	0.003±0.004	-0.139±0.006
36.7	7.8±0.3	0.2±0.2	-0.26±0.01	-1.32±0.02	1.028±0.006	1.018±0.006	0.003±0.004	-0.139±0.006
39.2	7.7±0.3	0.1±0.2	-0.24±0.01	-1.32±0.02	1.039±0.006	1.030±0.006	0.002±0.004	-0.139±0.006
44.3	7.4±0.3	0.2±0.2	-0.20±0.01	-1.32±0.02	1.056±0.007	1.047±0.007	0.003±0.004	-0.136±0.006
49.4	7.2±0.3	0.1±0.2	-0.17±0.01	-1.32±0.02	1.072±0.007	1.064±0.007	0.002±0.004	-0.134±0.006
54.5	7.1±0.3	0.1±0.2	-0.13±0.01	-1.31±0.02	1.088±0.007	1.079±0.007	0.002±0.004	-0.134±0.006
59.5	6.9±0.3	0.1±0.2	-0.09±0.01	-1.31±0.02	1.104±0.007	1.096±0.007	0.002±0.004	-0.133±0.006
64.6	6.9±0.3	0.2±0.2	-0.07±0.01	-1.32±0.02	1.120±0.007	1.112±0.007	0.003±0.004	-0.135±0.006
69.7	6.9±0.3	0.2±0.2	-0.04±0.01	-1.31±0.02	1.127±0.007	1.119±0.007	0.004±0.004	-0.135±0.006
74.8	6.8±0.3	0.3±0.2	-0.02±0.01	-1.31±0.02	1.137±0.007	1.128±0.007	0.006±0.004	-0.135±0.006
79.9	6.9±0.3	0.4±0.2	0.00±0.01	-1.31±0.02	1.142±0.007	1.134±0.007	0.008±0.004	-0.137±0.006
84.9	7.0±0.3	0.4±0.2	0.00±0.01	-1.31±0.02	1.148±0.007	1.139±0.007	0.008±0.004	-0.140±0.006
90.0	7.1±0.3	0.5±0.2	0.01±0.01	-1.32±0.02	1.150±0.007	1.142±0.007	0.009±0.004	-0.142±0.006
100.2	7.2±0.3	0.6±0.2	0.01±0.01	-1.32±0.02	1.152±0.007	1.143±0.007	0.013±0.004	-0.145±0.006
110.3	7.2±0.3	0.8±0.2	0.01±0.01	-1.31±0.02	1.151±0.007	1.142±0.007	0.016±0.004	-0.144±0.006
120.5	7.3±0.3	1.0±0.2	0.01±0.01	-1.31±0.02	1.151±0.007	1.142±0.007	0.020±0.004	-0.145±0.006
130.7	7.4±0.3	1.2±0.2	0.01±0.01	-1.31±0.02	1.149±0.007	1.139±0.007	0.024±0.004	-0.147±0.006
140.8	7.4±0.3	1.4±0.2	0.01±0.01	-1.31±0.02	1.149±0.007	1.139±0.007	0.027±0.004	-0.148±0.006

Table B.25 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(9 mm,-79 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	18.5±0.3	2.9±0.4	-0.69±0.01	-1.34±0.02	0.808±0.007	0.765±0.006	0.039±0.005	-0.256±0.005
4.7	17.3±0.3	2.1±0.4	-0.67±0.01	-1.35±0.02	0.827±0.007	0.789±0.006	0.028±0.005	-0.245±0.005
5.7	16.1±0.3	1.8±0.4	-0.64±0.01	-1.36±0.02	0.844±0.006	0.810±0.006	0.025±0.005	-0.234±0.005
6.7	15.2±0.3	1.5±0.4	-0.62±0.01	-1.35±0.02	0.853±0.006	0.824±0.006	0.022±0.005	-0.223±0.005
7.7	14.4±0.3	1.4±0.3	-0.60±0.01	-1.35±0.02	0.866±0.006	0.839±0.006	0.020±0.005	-0.215±0.005
8.7	13.7±0.3	1.2±0.3	-0.58±0.01	-1.36±0.02	0.881±0.006	0.856±0.006	0.017±0.005	-0.208±0.005
9.8	13.1±0.3	1.1±0.3	-0.57±0.01	-1.36±0.02	0.892±0.006	0.869±0.006	0.017±0.005	-0.202±0.005
10.8	12.6±0.3	1.1±0.3	-0.54±0.01	-1.35±0.02	0.899±0.006	0.877±0.006	0.016±0.005	-0.197±0.005
11.8	12.2±0.3	1.0±0.3	-0.53±0.01	-1.35±0.02	0.906±0.006	0.885±0.006	0.015±0.005	-0.191±0.005
12.8	11.9±0.3	0.9±0.3	-0.52±0.01	-1.35±0.02	0.914±0.006	0.894±0.006	0.014±0.005	-0.188±0.005
13.8	11.6±0.3	0.8±0.3	-0.50±0.01	-1.35±0.02	0.920±0.006	0.901±0.006	0.013±0.005	-0.185±0.005
16.4	10.9±0.3	0.7±0.3	-0.47±0.01	-1.36±0.02	0.942±0.006	0.925±0.006	0.011±0.005	-0.178±0.005
18.9	10.4±0.3	0.5±0.3	-0.44±0.01	-1.36±0.02	0.958±0.006	0.942±0.006	0.008±0.005	-0.174±0.005
21.4	10.1±0.3	0.4±0.3	-0.42±0.01	-1.36±0.02	0.970±0.006	0.955±0.006	0.007±0.005	-0.169±0.005
24.0	9.7±0.3	0.4±0.3	-0.39±0.01	-1.35±0.02	0.984±0.006	0.970±0.006	0.006±0.004	-0.165±0.005
26.5	9.4±0.3	0.3±0.3	-0.36±0.01	-1.35±0.02	0.996±0.006	0.983±0.006	0.005±0.004	-0.163±0.006
29.1	9.2±0.3	0.1±0.2	-0.34±0.01	-1.36±0.02	1.009±0.006	0.996±0.006	0.002±0.004	-0.161±0.006
31.6	9.0±0.3	0.1±0.2	-0.31±0.01	-1.35±0.02	1.021±0.006	1.009±0.006	0.001±0.004	-0.159±0.006
34.1	8.8±0.3	-0.1±0.2	-0.29±0.01	-1.34±0.02	1.028±0.006	1.016±0.006	-0.001±0.004	-0.156±0.006
36.7	8.6±0.3	-0.1±0.2	-0.27±0.01	-1.36±0.02	1.045±0.007	1.033±0.006	-0.001±0.004	-0.156±0.006
39.2	8.5±0.3	-0.1±0.2	-0.25±0.01	-1.35±0.02	1.050±0.007	1.039±0.007	-0.001±0.004	-0.155±0.006
44.3	8.3±0.3	-0.1±0.2	-0.20±0.01	-1.35±0.02	1.074±0.007	1.063±0.007	-0.002±0.004	-0.154±0.006
49.4	8.1±0.3	-0.2±0.2	-0.16±0.01	-1.35±0.02	1.092±0.007	1.081±0.007	-0.003±0.004	-0.154±0.006
54.5	8.0±0.3	-0.2±0.2	-0.13±0.01	-1.36±0.02	1.110±0.007	1.099±0.007	-0.004±0.004	-0.154±0.006
59.5	7.9±0.3	-0.1±0.2	-0.10±0.01	-1.36±0.02	1.125±0.007	1.115±0.007	-0.002±0.004	-0.154±0.006
64.6	7.8±0.3	0.0±0.2	-0.06±0.01	-1.35±0.02	1.137±0.007	1.126±0.007	-0.001±0.004	-0.154±0.006
69.7	7.7±0.3	0.0±0.2	-0.04±0.01	-1.36±0.02	1.146±0.007	1.136±0.007	0.000±0.004	-0.154±0.006
74.8	7.8±0.3	0.1±0.2	-0.02±0.01	-1.36±0.02	1.156±0.007	1.146±0.007	0.002±0.004	-0.157±0.006
79.9	7.8±0.3	0.2±0.2	0.00±0.01	-1.36±0.02	1.162±0.007	1.152±0.007	0.004±0.004	-0.157±0.006
84.9	7.9±0.3	0.3±0.2	0.00±0.01	-1.36±0.02	1.166±0.007	1.155±0.007	0.006±0.004	-0.159±0.006
90.0	8.0±0.3	0.4±0.2	0.01±0.01	-1.36±0.02	1.169±0.007	1.158±0.007	0.008±0.004	-0.163±0.006
100.2	8.1±0.3	0.5±0.2	0.01±0.01	-1.36±0.02	1.170±0.007	1.158±0.007	0.010±0.004	-0.165±0.006
110.3	8.2±0.3	0.8±0.2	0.01±0.01	-1.36±0.02	1.170±0.007	1.158±0.007	0.016±0.004	-0.167±0.006
120.5	8.2±0.3	1.0±0.2	0.01±0.01	-1.36±0.02	1.169±0.007	1.157±0.007	0.020±0.004	-0.167±0.006
130.7	8.3±0.3	1.2±0.2	0.01±0.01	-1.36±0.02	1.169±0.007	1.157±0.007	0.024±0.004	-0.168±0.006
140.8	8.4±0.3	1.4±0.2	0.01±0.01	-1.35±0.02	1.168±0.007	1.155±0.007	0.029±0.004	-0.170±0.006

Table B.26 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(11 mm,-73 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	19.9±0.3	2.8±0.4	-0.68±0.01	-1.37±0.02	0.826±0.007	0.776±0.006	0.038±0.005	-0.281±0.005
4.7	18.5±0.3	2.3±0.4	-0.66±0.01	-1.36±0.02	0.839±0.007	0.795±0.006	0.032±0.005	-0.266±0.005
5.7	17.1±0.3	1.9±0.4	-0.64±0.01	-1.37±0.02	0.857±0.006	0.819±0.006	0.027±0.005	-0.251±0.005
6.7	16.0±0.3	1.7±0.3	-0.61±0.01	-1.37±0.02	0.868±0.006	0.834±0.006	0.024±0.005	-0.240±0.005
7.7	15.1±0.3	1.4±0.3	-0.59±0.01	-1.37±0.02	0.880±0.006	0.850±0.006	0.021±0.005	-0.229±0.005
8.7	14.3±0.3	1.3±0.3	-0.58±0.01	-1.37±0.02	0.892±0.006	0.864±0.006	0.019±0.005	-0.221±0.005
9.8	13.7±0.3	1.2±0.3	-0.56±0.01	-1.37±0.02	0.902±0.006	0.876±0.006	0.018±0.005	-0.214±0.005
10.8	13.2±0.3	1.0±0.3	-0.54±0.01	-1.38±0.02	0.913±0.006	0.889±0.006	0.016±0.005	-0.208±0.005
11.8	12.8±0.3	1.0±0.3	-0.52±0.01	-1.38±0.02	0.924±0.006	0.901±0.006	0.015±0.005	-0.204±0.005
12.8	12.5±0.3	0.8±0.3	-0.51±0.01	-1.38±0.02	0.933±0.006	0.910±0.006	0.013±0.005	-0.202±0.005
13.8	12.1±0.3	0.7±0.3	-0.49±0.01	-1.37±0.02	0.937±0.006	0.916±0.006	0.012±0.005	-0.197±0.005
16.4	11.4±0.3	0.5±0.3	-0.47±0.01	-1.37±0.02	0.952±0.006	0.933±0.006	0.008±0.005	-0.189±0.005
18.9	10.9±0.3	0.4±0.3	-0.43±0.01	-1.37±0.02	0.969±0.006	0.952±0.006	0.006±0.005	-0.184±0.005
21.4	10.5±0.3	0.3±0.3	-0.41±0.01	-1.38±0.02	0.984±0.006	0.967±0.006	0.005±0.004	-0.180±0.005
24.0	10.2±0.3	0.1±0.3	-0.38±0.01	-1.37±0.02	0.998±0.006	0.982±0.006	0.002±0.004	-0.177±0.006
26.5	10.0±0.3	0.0±0.2	-0.36±0.01	-1.38±0.02	1.011±0.006	0.995±0.006	0.000±0.004	-0.175±0.006
29.1	9.7±0.3	-0.1±0.2	-0.32±0.01	-1.36±0.02	1.020±0.006	1.005±0.006	-0.002±0.004	-0.171±0.006
31.6	9.6±0.3	-0.2±0.2	-0.31±0.01	-1.38±0.02	1.034±0.007	1.020±0.006	-0.003±0.004	-0.172±0.006
34.1	9.4±0.3	-0.2±0.2	-0.29±0.01	-1.37±0.02	1.042±0.007	1.028±0.006	-0.004±0.004	-0.170±0.006
36.7	9.2±0.3	-0.3±0.2	-0.26±0.01	-1.38±0.02	1.056±0.007	1.042±0.007	-0.006±0.004	-0.170±0.006
39.2	9.2±0.3	-0.3±0.2	-0.24±0.01	-1.37±0.02	1.064±0.007	1.050±0.007	-0.006±0.004	-0.170±0.006
44.3	8.9±0.3	-0.4±0.2	-0.20±0.01	-1.37±0.02	1.082±0.007	1.069±0.007	-0.007±0.004	-0.168±0.006
49.4	8.7±0.3	-0.4±0.2	-0.16±0.01	-1.37±0.02	1.100±0.007	1.087±0.007	-0.007±0.004	-0.167±0.006
54.5	8.7±0.3	-0.4±0.2	-0.12±0.01	-1.37±0.02	1.118±0.007	1.105±0.007	-0.007±0.004	-0.169±0.006
59.5	8.6±0.3	-0.3±0.2	-0.09±0.01	-1.37±0.02	1.131±0.007	1.119±0.007	-0.007±0.004	-0.168±0.006
64.6	8.5±0.3	-0.2±0.2	-0.06±0.01	-1.38±0.02	1.145±0.007	1.133±0.007	-0.004±0.004	-0.169±0.006
69.7	8.5±0.3	-0.2±0.2	-0.04±0.01	-1.37±0.02	1.156±0.007	1.143±0.007	-0.003±0.004	-0.170±0.006
74.8	8.6±0.3	0.0±0.2	-0.02±0.01	-1.38±0.02	1.167±0.007	1.154±0.007	0.000±0.004	-0.173±0.006
79.9	8.6±0.3	0.1±0.2	0.00±0.01	-1.37±0.02	1.171±0.007	1.158±0.007	0.002±0.004	-0.174±0.006
84.9	8.6±0.3	0.2±0.2	0.00±0.01	-1.38±0.02	1.176±0.007	1.163±0.007	0.004±0.004	-0.176±0.006
90.0	8.7±0.3	0.3±0.2	0.01±0.01	-1.38±0.02	1.177±0.007	1.163±0.007	0.007±0.004	-0.178±0.007
100.2	8.9±0.3	0.4±0.2	0.01±0.01	-1.38±0.02	1.179±0.007	1.165±0.007	0.009±0.004	-0.182±0.007
110.3	9.0±0.3	0.7±0.2	0.01±0.01	-1.38±0.02	1.178±0.007	1.163±0.007	0.014±0.004	-0.184±0.007
120.5	9.0±0.3	1.0±0.2	0.01±0.01	-1.37±0.02	1.177±0.007	1.163±0.007	0.020±0.004	-0.184±0.007
130.7	9.0±0.3	1.3±0.2	0.01±0.01	-1.37±0.02	1.177±0.007	1.162±0.007	0.026±0.004	-0.184±0.006
140.8	9.1±0.3	1.5±0.2	0.01±0.01	-1.37±0.02	1.177±0.007	1.161±0.007	0.031±0.004	-0.187±0.006

Table B.27 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(13 mm,-67 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	22.5±0.3	3.0±0.4	-0.69±0.01	-1.41±0.02	0.850±0.006	0.785±0.006	0.042±0.005	-0.324±0.005
4.7	20.6±0.3	2.3±0.4	-0.67±0.01	-1.42±0.02	0.865±0.006	0.809±0.006	0.032±0.005	-0.304±0.005
5.7	18.9±0.3	1.9±0.3	-0.64±0.01	-1.41±0.02	0.877±0.006	0.829±0.006	0.027±0.005	-0.284±0.005
6.7	17.4±0.3	1.7±0.3	-0.62±0.01	-1.42±0.02	0.893±0.006	0.852±0.006	0.025±0.005	-0.267±0.005
7.7	16.3±0.3	1.5±0.3	-0.60±0.01	-1.42±0.02	0.910±0.006	0.873±0.006	0.024±0.005	-0.255±0.005
8.7	15.3±0.3	1.4±0.3	-0.58±0.01	-1.42±0.02	0.918±0.006	0.886±0.006	0.021±0.005	-0.242±0.005
9.8	14.6±0.3	1.1±0.3	-0.56±0.01	-1.43±0.02	0.930±0.006	0.900±0.006	0.018±0.005	-0.234±0.005
10.8	13.9±0.3	1.1±0.3	-0.54±0.01	-1.42±0.02	0.939±0.006	0.911±0.006	0.017±0.005	-0.225±0.005
11.8	13.4±0.3	0.9±0.3	-0.52±0.01	-1.43±0.02	0.951±0.006	0.925±0.006	0.015±0.005	-0.221±0.005
12.8	13.0±0.3	0.8±0.3	-0.51±0.01	-1.42±0.02	0.958±0.006	0.933±0.006	0.013±0.005	-0.215±0.005
13.8	12.6±0.3	0.7±0.3	-0.50±0.01	-1.43±0.02	0.964±0.006	0.941±0.006	0.011±0.005	-0.211±0.005
16.4	12.0±0.3	0.4±0.3	-0.46±0.01	-1.42±0.02	0.981±0.006	0.960±0.006	0.007±0.004	-0.204±0.005
18.9	11.6±0.3	0.1±0.3	-0.43±0.01	-1.43±0.02	0.998±0.006	0.977±0.006	0.002±0.004	-0.200±0.006
21.4	11.2±0.3	-0.1±0.2	-0.40±0.01	-1.43±0.02	1.012±0.006	0.993±0.006	-0.002±0.004	-0.196±0.006
24.0	10.9±0.3	-0.3±0.2	-0.38±0.01	-1.42±0.02	1.023±0.006	1.005±0.006	-0.006±0.004	-0.194±0.006
26.5	10.7±0.3	-0.5±0.2	-0.35±0.01	-1.42±0.02	1.034±0.006	1.016±0.006	-0.009±0.004	-0.192±0.006
29.1	10.5±0.3	-0.6±0.2	-0.33±0.01	-1.42±0.02	1.045±0.006	1.028±0.006	-0.010±0.004	-0.190±0.006
31.6	10.4±0.3	-0.7±0.2	-0.31±0.01	-1.43±0.02	1.060±0.007	1.043±0.007	-0.012±0.004	-0.191±0.006
34.1	10.2±0.3	-0.7±0.2	-0.28±0.01	-1.42±0.02	1.068±0.007	1.051±0.007	-0.013±0.004	-0.189±0.006
36.7	10.1±0.3	-0.8±0.2	-0.26±0.01	-1.42±0.02	1.079±0.007	1.062±0.007	-0.015±0.004	-0.189±0.006
39.2	10.0±0.3	-0.8±0.2	-0.23±0.01	-1.42±0.02	1.090±0.007	1.073±0.007	-0.016±0.004	-0.189±0.006
44.3	9.9±0.3	-0.8±0.2	-0.20±0.01	-1.43±0.02	1.109±0.007	1.093±0.007	-0.016±0.004	-0.190±0.006
49.4	9.8±0.3	-0.8±0.2	-0.16±0.01	-1.43±0.02	1.128±0.007	1.112±0.007	-0.016±0.004	-0.191±0.006
54.5	9.6±0.3	-0.7±0.2	-0.12±0.01	-1.42±0.02	1.143±0.007	1.127±0.007	-0.015±0.004	-0.191±0.006
59.5	9.6±0.3	-0.7±0.2	-0.09±0.01	-1.42±0.02	1.157±0.007	1.141±0.007	-0.014±0.004	-0.192±0.006
64.6	9.5±0.3	-0.6±0.2	-0.06±0.01	-1.43±0.02	1.172±0.007	1.155±0.007	-0.011±0.004	-0.194±0.006
69.7	9.5±0.3	-0.5±0.2	-0.04±0.01	-1.42±0.02	1.177±0.007	1.161±0.007	-0.010±0.004	-0.194±0.007
74.8	9.5±0.3	-0.3±0.2	-0.02±0.01	-1.43±0.02	1.189±0.007	1.173±0.007	-0.006±0.004	-0.197±0.007
79.9	9.6±0.3	-0.2±0.2	-0.01±0.01	-1.43±0.02	1.194±0.007	1.177±0.007	-0.004±0.004	-0.198±0.007
84.9	9.7±0.3	-0.1±0.2	0.00±0.01	-1.43±0.02	1.199±0.007	1.182±0.007	-0.002±0.004	-0.201±0.007
90.0	9.7±0.3	0.0±0.2	0.01±0.01	-1.43±0.02	1.200±0.007	1.183±0.007	0.001±0.004	-0.202±0.007
100.2	9.9±0.3	0.4±0.2	0.01±0.01	-1.43±0.02	1.202±0.007	1.184±0.007	0.008±0.004	-0.207±0.007
110.3	10.0±0.3	0.6±0.2	0.01±0.01	-1.43±0.02	1.202±0.007	1.183±0.007	0.013±0.004	-0.209±0.007
120.5	10.1±0.3	0.9±0.2	0.01±0.01	-1.43±0.02	1.201±0.007	1.183±0.007	0.018±0.004	-0.210±0.007
130.7	10.1±0.3	1.2±0.2	0.01±0.01	-1.43±0.02	1.202±0.007	1.183±0.007	0.025±0.004	-0.212±0.007
140.8	10.2±0.3	1.5±0.2	0.01±0.01	-1.43±0.02	1.200±0.007	1.181±0.007	0.030±0.004	-0.212±0.007

Table B.28 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(16 mm,-61 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	24.3±0.3	3.4±0.4	-0.70±0.01	-1.47±0.02	0.874±0.006	0.796±0.006	0.047±0.005	-0.359±0.005
4.7	21.9±0.3	2.7±0.3	-0.68±0.01	-1.47±0.02	0.887±0.006	0.822±0.006	0.039±0.005	-0.331±0.005
5.7	19.6±0.3	2.2±0.3	-0.67±0.01	-1.48±0.02	0.900±0.006	0.847±0.006	0.033±0.005	-0.302±0.005
6.7	17.7±0.3	2.3±0.3	-0.63±0.01	-1.48±0.02	0.919±0.006	0.874±0.006	0.035±0.005	-0.280±0.005
7.7	16.3±0.3	2.0±0.3	-0.60±0.01	-1.47±0.02	0.932±0.006	0.894±0.006	0.031±0.005	-0.262±0.005
8.7	15.2±0.3	1.6±0.3	-0.58±0.01	-1.48±0.02	0.949±0.006	0.915±0.006	0.026±0.005	-0.249±0.005
9.8	14.5±0.3	1.3±0.3	-0.55±0.01	-1.47±0.02	0.958±0.006	0.927±0.006	0.021±0.005	-0.239±0.005
10.8	13.9±0.3	1.0±0.3	-0.53±0.01	-1.47±0.02	0.971±0.006	0.942±0.006	0.016±0.005	-0.232±0.005
11.8	13.5±0.3	0.7±0.3	-0.51±0.01	-1.47±0.02	0.975±0.006	0.948±0.006	0.012±0.005	-0.227±0.005
12.8	13.0±0.3	0.5±0.3	-0.50±0.01	-1.47±0.02	0.984±0.006	0.959±0.006	0.008±0.004	-0.222±0.005
13.8	12.7±0.3	0.4±0.3	-0.48±0.01	-1.47±0.02	0.993±0.006	0.968±0.006	0.006±0.004	-0.218±0.006
16.4	12.2±0.3	-0.2±0.3	-0.45±0.01	-1.47±0.02	1.009±0.006	0.987±0.006	-0.003±0.004	-0.213±0.006
18.9	11.9±0.3	-0.5±0.2	-0.41±0.01	-1.46±0.02	1.021±0.006	0.999±0.006	-0.010±0.004	-0.210±0.006
21.4	11.6±0.3	-0.8±0.2	-0.39±0.01	-1.46±0.02	1.037±0.007	1.016±0.006	-0.013±0.004	-0.209±0.006
24.0	11.4±0.3	-0.9±0.2	-0.36±0.01	-1.46±0.02	1.049±0.007	1.028±0.007	-0.017±0.004	-0.208±0.006
26.5	11.3±0.3	-1.1±0.2	-0.34±0.01	-1.46±0.02	1.059±0.007	1.038±0.007	-0.019±0.004	-0.207±0.006
29.1	11.2±0.3	-1.2±0.2	-0.31±0.01	-1.47±0.02	1.074±0.007	1.053±0.007	-0.021±0.004	-0.208±0.006
31.6	11.1±0.3	-1.2±0.2	-0.29±0.01	-1.46±0.02	1.082±0.007	1.061±0.007	-0.023±0.004	-0.208±0.006
34.1	10.9±0.3	-1.3±0.2	-0.27±0.01	-1.46±0.02	1.089±0.007	1.069±0.007	-0.024±0.004	-0.206±0.006
36.7	10.8±0.3	-1.3±0.2	-0.24±0.01	-1.44±0.02	1.098±0.007	1.078±0.007	-0.024±0.004	-0.205±0.006
39.2	10.7±0.3	-1.3±0.2	-0.23±0.01	-1.46±0.02	1.110±0.007	1.091±0.007	-0.025±0.004	-0.206±0.006
44.3	10.6±0.3	-1.3±0.2	-0.18±0.01	-1.45±0.02	1.127±0.007	1.108±0.007	-0.025±0.004	-0.207±0.006
49.4	10.5±0.3	-1.2±0.2	-0.15±0.01	-1.47±0.02	1.147±0.007	1.128±0.007	-0.024±0.004	-0.209±0.006
54.5	10.4±0.3	-1.1±0.2	-0.12±0.01	-1.47±0.02	1.161±0.007	1.142±0.007	-0.022±0.004	-0.209±0.006
59.5	10.4±0.3	-1.0±0.2	-0.08±0.01	-1.47±0.02	1.177±0.007	1.158±0.007	-0.021±0.004	-0.211±0.007
64.6	10.3±0.3	-0.9±0.2	-0.06±0.01	-1.47±0.02	1.186±0.007	1.167±0.007	-0.017±0.004	-0.212±0.007
69.7	10.3±0.3	-0.7±0.2	-0.04±0.01	-1.48±0.02	1.200±0.007	1.180±0.007	-0.014±0.004	-0.215±0.007
74.8	10.3±0.3	-0.6±0.2	-0.02±0.01	-1.47±0.02	1.205±0.007	1.186±0.007	-0.012±0.004	-0.216±0.007
79.9	10.4±0.3	-0.4±0.2	0.00±0.01	-1.47±0.02	1.212±0.007	1.192±0.007	-0.009±0.004	-0.218±0.007
84.9	10.4±0.3	-0.3±0.2	0.00±0.01	-1.47±0.02	1.216±0.007	1.196±0.007	-0.006±0.004	-0.220±0.007
90.0	10.5±0.3	-0.1±0.2	0.01±0.01	-1.48±0.02	1.218±0.007	1.198±0.007	-0.002±0.004	-0.223±0.007
100.2	10.8±0.3	0.2±0.2	0.01±0.01	-1.48±0.02	1.220±0.007	1.198±0.007	0.005±0.004	-0.228±0.007
110.3	10.9±0.3	0.6±0.2	0.01±0.01	-1.48±0.02	1.220±0.007	1.198±0.007	0.012±0.004	-0.230±0.007
120.5	11.0±0.3	0.9±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.198±0.007	0.019±0.004	-0.232±0.007
130.7	11.0±0.3	1.1±0.2	0.01±0.01	-1.47±0.02	1.219±0.007	1.196±0.007	0.024±0.004	-0.233±0.007
140.8	11.1±0.3	1.5±0.2	0.01±0.01	-1.47±0.02	1.218±0.007	1.195±0.007	0.031±0.004	-0.234±0.007

Table B.29 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(18 mm,-56 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	27.8±0.3	4.7±0.3	-0.74±0.01	-1.56±0.02	0.910±0.006	0.803±0.006	0.066±0.005	-0.424±0.005
4.7	23.9±0.3	3.2±0.3	-0.74±0.01	-1.58±0.02	0.920±0.006	0.839±0.006	0.047±0.005	-0.373±0.005
5.7	20.4±0.3	2.0±0.3	-0.71±0.01	-1.59±0.02	0.940±0.006	0.881±0.006	0.031±0.005	-0.327±0.005
6.7	17.6±0.3	1.1±0.3	-0.65±0.01	-1.57±0.02	0.957±0.006	0.912±0.006	0.017±0.005	-0.289±0.005
7.7	15.9±0.3	0.5±0.3	-0.61±0.01	-1.55±0.02	0.974±0.006	0.937±0.006	0.009±0.004	-0.266±0.005
8.7	14.9±0.3	0.1±0.3	-0.57±0.01	-1.54±0.02	0.986±0.006	0.952±0.006	0.001±0.004	-0.254±0.006
9.8	14.3±0.3	-0.4±0.3	-0.54±0.01	-1.54±0.02	0.997±0.006	0.966±0.006	-0.007±0.004	-0.245±0.006
10.8	13.8±0.3	-0.6±0.3	-0.52±0.01	-1.53±0.02	1.005±0.006	0.976±0.006	-0.011±0.004	-0.240±0.006
11.8	13.6±0.3	-0.8±0.2	-0.50±0.01	-1.54±0.02	1.017±0.006	0.988±0.006	-0.014±0.004	-0.239±0.006
12.8	13.3±0.3	-1.0±0.2	-0.48±0.01	-1.53±0.02	1.023±0.006	0.995±0.006	-0.017±0.004	-0.236±0.006
13.8	13.2±0.3	-1.2±0.2	-0.47±0.01	-1.52±0.02	1.029±0.006	1.001±0.006	-0.021±0.004	-0.235±0.006
16.4	13.0±0.3	-1.5±0.2	-0.43±0.01	-1.52±0.02	1.044±0.006	1.017±0.006	-0.026±0.004	-0.235±0.006
18.9	12.8±0.3	-1.7±0.2	-0.41±0.01	-1.53±0.02	1.059±0.007	1.033±0.006	-0.030±0.004	-0.234±0.006
21.4	12.7±0.3	-1.8±0.2	-0.37±0.01	-1.53±0.02	1.074±0.007	1.047±0.007	-0.034±0.004	-0.236±0.006
24.0	12.5±0.3	-1.9±0.2	-0.36±0.01	-1.53±0.02	1.084±0.007	1.058±0.007	-0.036±0.004	-0.235±0.006
26.5	12.4±0.3	-2.1±0.2	-0.32±0.01	-1.52±0.02	1.094±0.007	1.068±0.007	-0.038±0.004	-0.235±0.006
29.1	12.4±0.3	-2.1±0.2	-0.30±0.01	-1.52±0.02	1.104±0.007	1.077±0.007	-0.039±0.004	-0.236±0.006
31.6	12.2±0.3	-2.1±0.2	-0.28±0.01	-1.53±0.02	1.116±0.007	1.090±0.007	-0.040±0.004	-0.237±0.006
34.1	12.2±0.3	-2.1±0.2	-0.26±0.01	-1.53±0.02	1.125±0.007	1.099±0.007	-0.040±0.004	-0.237±0.006
36.7	12.1±0.3	-2.1±0.2	-0.24±0.01	-1.52±0.02	1.132±0.007	1.106±0.007	-0.040±0.004	-0.237±0.006
39.2	12.0±0.3	-2.1±0.2	-0.21±0.01	-1.52±0.02	1.142±0.007	1.117±0.007	-0.041±0.004	-0.238±0.006
44.3	12.0±0.3	-2.0±0.2	-0.19±0.01	-1.54±0.02	1.164±0.007	1.138±0.007	-0.039±0.004	-0.241±0.006
49.4	11.8±0.3	-1.8±0.2	-0.15±0.01	-1.54±0.02	1.180±0.007	1.155±0.007	-0.036±0.004	-0.241±0.007
54.5	11.8±0.3	-1.7±0.2	-0.11±0.01	-1.54±0.02	1.195±0.007	1.170±0.007	-0.034±0.004	-0.244±0.007
59.5	11.7±0.3	-1.5±0.2	-0.08±0.01	-1.54±0.02	1.209±0.007	1.184±0.007	-0.031±0.004	-0.244±0.007
64.6	11.7±0.3	-1.3±0.2	-0.05±0.01	-1.54±0.02	1.221±0.007	1.196±0.007	-0.027±0.004	-0.247±0.007
69.7	11.7±0.3	-1.1±0.2	-0.03±0.01	-1.54±0.02	1.231±0.007	1.205±0.007	-0.024±0.004	-0.249±0.007
74.8	11.7±0.3	-0.9±0.2	-0.02±0.01	-1.55±0.02	1.240±0.007	1.214±0.007	-0.020±0.004	-0.251±0.007
79.9	11.8±0.3	-0.7±0.2	-0.01±0.01	-1.56±0.02	1.245±0.007	1.219±0.007	-0.016±0.003	-0.254±0.007
84.9	11.8±0.3	-0.6±0.2	0.01±0.01	-1.56±0.02	1.249±0.007	1.223±0.007	-0.012±0.003	-0.256±0.007
90.0	12.0±0.3	-0.4±0.2	0.01±0.01	-1.56±0.02	1.251±0.007	1.223±0.007	-0.009±0.003	-0.261±0.007
100.2	12.2±0.3	0.0±0.2	0.01±0.01	-1.56±0.02	1.253±0.007	1.224±0.007	0.001±0.003	-0.266±0.007
110.3	12.4±0.3	0.4±0.2	0.01±0.01	-1.56±0.02	1.253±0.007	1.224±0.007	0.008±0.003	-0.269±0.007
120.5	12.5±0.3	0.7±0.2	0.01±0.01	-1.56±0.02	1.253±0.007	1.224±0.007	0.014±0.003	-0.270±0.007
130.7	12.5±0.3	1.1±0.2	0.01±0.01	-1.56±0.02	1.253±0.007	1.223±0.007	0.023±0.003	-0.271±0.007
140.8	12.5±0.3	1.4±0.2	0.01±0.01	-1.55±0.02	1.251±0.007	1.221±0.007	0.030±0.003	-0.271±0.007

Table B.30 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(20 mm,-50 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	27.3±0.3	0.5±0.3	-0.67±0.01	-1.64±0.02	0.987±0.006	0.878±0.006	0.008±0.004	-0.452±0.006
4.7	23.5±0.3	-1.3±0.3	-0.66±0.01	-1.64±0.02	0.987±0.006	0.905±0.006	-0.020±0.004	-0.394±0.006
5.7	20.4±0.3	-2.5±0.3	-0.62±0.01	-1.63±0.02	1.002±0.006	0.938±0.006	-0.041±0.004	-0.350±0.006
6.7	18.3±0.3	-3.3±0.3	-0.58±0.01	-1.62±0.02	1.017±0.006	0.964±0.006	-0.055±0.004	-0.318±0.006
7.7	16.8±0.3	-3.5±0.3	-0.55±0.01	-1.60±0.02	1.026±0.006	0.981±0.006	-0.060±0.004	-0.297±0.006
8.7	16.0±0.3	-3.6±0.2	-0.52±0.01	-1.60±0.02	1.041±0.006	0.999±0.006	-0.062±0.004	-0.287±0.006
9.8	15.5±0.3	-3.5±0.2	-0.50±0.01	-1.60±0.02	1.048±0.006	1.008±0.006	-0.062±0.004	-0.280±0.006
10.8	15.1±0.3	-3.3±0.2	-0.49±0.01	-1.60±0.02	1.055±0.007	1.017±0.006	-0.059±0.004	-0.274±0.006
11.8	14.9±0.3	-3.3±0.2	-0.47±0.01	-1.61±0.02	1.068±0.007	1.031±0.007	-0.060±0.004	-0.273±0.006
12.8	14.5±0.3	-3.3±0.2	-0.46±0.01	-1.61±0.02	1.075±0.007	1.039±0.007	-0.060±0.004	-0.269±0.006
13.8	14.5±0.3	-3.3±0.2	-0.45±0.01	-1.61±0.02	1.079±0.007	1.043±0.007	-0.060±0.004	-0.269±0.006
16.4	14.1±0.3	-3.3±0.2	-0.42±0.01	-1.61±0.02	1.091±0.007	1.056±0.007	-0.060±0.004	-0.266±0.006
18.9	13.9±0.3	-3.2±0.2	-0.38±0.01	-1.61±0.02	1.106±0.007	1.072±0.007	-0.060±0.004	-0.266±0.006
21.4	13.8±0.3	-3.3±0.2	-0.35±0.01	-1.60±0.02	1.116±0.007	1.082±0.007	-0.062±0.004	-0.265±0.006
24.0	13.6±0.3	-3.3±0.2	-0.33±0.01	-1.61±0.02	1.131±0.007	1.097±0.007	-0.063±0.004	-0.266±0.006
26.5	13.6±0.3	-3.2±0.2	-0.31±0.01	-1.62±0.02	1.146±0.007	1.112±0.007	-0.061±0.004	-0.269±0.006
29.1	13.5±0.3	-3.3±0.2	-0.29±0.01	-1.61±0.02	1.149±0.007	1.115±0.007	-0.064±0.004	-0.268±0.006
31.6	13.5±0.3	-3.1±0.2	-0.26±0.01	-1.60±0.02	1.160±0.007	1.126±0.007	-0.062±0.004	-0.270±0.006
34.1	13.5±0.3	-3.1±0.2	-0.25±0.01	-1.62±0.02	1.172±0.007	1.138±0.007	-0.062±0.004	-0.272±0.006
36.7	13.4±0.3	-3.0±0.2	-0.22±0.01	-1.62±0.02	1.182±0.007	1.149±0.007	-0.061±0.004	-0.273±0.007
39.2	13.3±0.3	-3.0±0.2	-0.21±0.01	-1.62±0.02	1.185±0.007	1.152±0.007	-0.060±0.004	-0.272±0.007
44.3	13.2±0.3	-2.8±0.2	-0.17±0.01	-1.61±0.02	1.200±0.007	1.167±0.007	-0.058±0.004	-0.274±0.007
49.4	13.1±0.3	-2.6±0.2	-0.14±0.01	-1.63±0.02	1.223±0.007	1.190±0.007	-0.054±0.004	-0.277±0.007
54.5	13.1±0.3	-2.3±0.2	-0.10±0.01	-1.64±0.02	1.240±0.007	1.207±0.007	-0.049±0.004	-0.281±0.007
59.5	13.0±0.3	-2.1±0.2	-0.07±0.01	-1.64±0.02	1.253±0.007	1.220±0.007	-0.045±0.003	-0.282±0.007
64.6	13.0±0.3	-1.8±0.2	-0.05±0.01	-1.65±0.02	1.264±0.007	1.232±0.007	-0.039±0.003	-0.284±0.007
69.7	13.0±0.3	-1.6±0.2	-0.02±0.01	-1.65±0.02	1.274±0.007	1.241±0.007	-0.035±0.003	-0.286±0.007
74.8	13.0±0.3	-1.3±0.2	-0.02±0.01	-1.66±0.02	1.283±0.007	1.249±0.007	-0.028±0.003	-0.289±0.007
79.9	13.1±0.3	-1.1±0.2	0.00±0.01	-1.66±0.02	1.290±0.007	1.256±0.007	-0.024±0.003	-0.293±0.007
84.9	13.3±0.3	-0.8±0.2	0.01±0.01	-1.67±0.02	1.293±0.007	1.258±0.007	-0.018±0.003	-0.297±0.007
90.0	13.4±0.3	-0.6±0.2	0.01±0.01	-1.67±0.02	1.295±0.007	1.260±0.007	-0.013±0.003	-0.299±0.007
100.2	13.6±0.3	-0.1±0.2	0.01±0.01	-1.67±0.02	1.296±0.007	1.260±0.007	-0.003±0.003	-0.305±0.007
110.3	13.7±0.3	0.3±0.2	0.01±0.01	-1.67±0.02	1.297±0.007	1.260±0.007	0.006±0.003	-0.308±0.007
120.5	13.8±0.3	0.6±0.2	0.01±0.01	-1.67±0.02	1.297±0.007	1.260±0.007	0.013±0.003	-0.309±0.007
130.7	13.8±0.3	1.0±0.2	0.01±0.01	-1.68±0.02	1.298±0.007	1.260±0.007	0.022±0.003	-0.310±0.007
140.8	13.8±0.3	1.3±0.2	0.01±0.01	-1.67±0.02	1.296±0.007	1.259±0.007	0.029±0.003	-0.309±0.007

Table B.31 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(22 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	23.8±0.3	-0.4±0.2	-0.51±0.01	-1.62±0.02	1.054±0.007	0.964±0.006	-0.007±0.004	-0.426±0.006
4.7	22.0±0.3	-2.1±0.2	-0.51±0.01	-1.63±0.02	1.058±0.007	0.981±0.006	-0.036±0.004	-0.396±0.006
5.7	20.6±0.3	-3.3±0.2	-0.49±0.01	-1.63±0.02	1.065±0.007	0.995±0.006	-0.057±0.004	-0.374±0.006
6.7	19.5±0.3	-3.9±0.2	-0.50±0.01	-1.65±0.02	1.072±0.007	1.009±0.007	-0.069±0.004	-0.357±0.006
7.7	18.6±0.3	-4.4±0.2	-0.48±0.01	-1.64±0.02	1.076±0.007	1.017±0.007	-0.079±0.004	-0.343±0.006
8.7	18.0±0.3	-4.6±0.2	-0.47±0.01	-1.65±0.02	1.087±0.007	1.031±0.007	-0.084±0.004	-0.334±0.006
9.8	17.5±0.3	-4.9±0.2	-0.45±0.01	-1.64±0.02	1.091±0.007	1.037±0.007	-0.088±0.004	-0.326±0.006
10.8	17.0±0.3	-4.9±0.2	-0.44±0.01	-1.65±0.02	1.101±0.007	1.049±0.007	-0.091±0.004	-0.321±0.006
11.8	16.7±0.3	-5.1±0.2	-0.44±0.01	-1.65±0.02	1.100±0.007	1.050±0.007	-0.094±0.004	-0.314±0.006
12.8	16.5±0.3	-5.2±0.2	-0.43±0.01	-1.64±0.02	1.103±0.007	1.054±0.007	-0.095±0.004	-0.311±0.006
13.8	16.2±0.3	-5.1±0.2	-0.41±0.01	-1.66±0.02	1.118±0.007	1.070±0.007	-0.095±0.004	-0.311±0.006
16.4	15.8±0.3	-5.2±0.2	-0.38±0.01	-1.65±0.02	1.125±0.007	1.079±0.007	-0.098±0.004	-0.305±0.006
18.9	15.5±0.3	-5.1±0.2	-0.36±0.01	-1.68±0.02	1.147±0.007	1.100±0.007	-0.099±0.004	-0.306±0.006
21.4	15.4±0.3	-5.1±0.2	-0.34±0.01	-1.67±0.02	1.154±0.007	1.108±0.007	-0.098±0.004	-0.305±0.006
24.0	15.3±0.3	-5.1±0.2	-0.32±0.01	-1.68±0.02	1.167±0.007	1.121±0.007	-0.101±0.004	-0.307±0.006
26.5	15.2±0.3	-5.1±0.2	-0.30±0.01	-1.68±0.02	1.175±0.007	1.130±0.007	-0.101±0.004	-0.307±0.006
29.1	15.2±0.3	-5.0±0.2	-0.28±0.01	-1.69±0.02	1.188±0.007	1.142±0.007	-0.100±0.004	-0.310±0.007
31.6	15.2±0.3	-4.8±0.2	-0.26±0.01	-1.69±0.02	1.199±0.007	1.153±0.007	-0.097±0.004	-0.312±0.007
34.1	15.1±0.3	-4.7±0.2	-0.24±0.01	-1.69±0.02	1.206±0.007	1.160±0.007	-0.095±0.004	-0.313±0.007
36.7	15.1±0.3	-4.5±0.2	-0.22±0.01	-1.70±0.02	1.217±0.007	1.172±0.007	-0.092±0.004	-0.316±0.007
39.2	15.0±0.3	-4.4±0.2	-0.21±0.01	-1.71±0.02	1.227±0.007	1.181±0.007	-0.091±0.004	-0.317±0.007
44.3	14.9±0.3	-4.1±0.2	-0.17±0.01	-1.73±0.02	1.247±0.007	1.202±0.007	-0.086±0.004	-0.320±0.007
49.4	14.9±0.3	-3.8±0.2	-0.15±0.01	-1.74±0.02	1.264±0.007	1.219±0.007	-0.080±0.004	-0.323±0.007
54.5	14.8±0.3	-3.4±0.2	-0.10±0.01	-1.75±0.02	1.283±0.007	1.239±0.007	-0.074±0.003	-0.328±0.007
59.5	14.7±0.3	-3.0±0.2	-0.07±0.01	-1.76±0.02	1.297±0.007	1.253±0.007	-0.066±0.003	-0.330±0.007
64.6	14.7±0.3	-2.8±0.2	-0.05±0.01	-1.76±0.02	1.307±0.007	1.263±0.007	-0.061±0.003	-0.331±0.007
69.7	14.7±0.3	-2.3±0.2	-0.03±0.01	-1.77±0.02	1.321±0.007	1.277±0.007	-0.051±0.003	-0.334±0.007
74.8	14.7±0.3	-2.0±0.1	-0.02±0.01	-1.78±0.02	1.328±0.007	1.284±0.007	-0.044±0.003	-0.336±0.007
79.9	14.7±0.3	-1.7±0.1	0.00±0.01	-1.79±0.02	1.336±0.007	1.291±0.007	-0.038±0.003	-0.340±0.007
84.9	14.9±0.3	-1.4±0.1	0.01±0.01	-1.79±0.02	1.339±0.007	1.294±0.007	-0.032±0.003	-0.343±0.007
90.0	15.0±0.3	-1.0±0.1	0.01±0.01	-1.79±0.02	1.342±0.007	1.296±0.007	-0.024±0.003	-0.347±0.007
100.2	15.3±0.3	-0.6±0.1	0.01±0.01	-1.80±0.02	1.345±0.007	1.298±0.007	-0.013±0.003	-0.354±0.007
110.3	15.4±0.3	0.0±0.1	0.01±0.01	-1.80±0.02	1.347±0.007	1.299±0.007	0.000±0.003	-0.358±0.007
120.5	15.4±0.3	0.4±0.1	0.01±0.01	-1.80±0.02	1.347±0.007	1.298±0.007	0.009±0.003	-0.358±0.007
130.7	15.4±0.3	0.7±0.1	0.01±0.01	-1.80±0.02	1.347±0.007	1.299±0.007	0.016±0.003	-0.358±0.007
140.8	15.4±0.3	1.0±0.1	0.01±0.01	-1.80±0.02	1.346±0.007	1.298±0.007	0.023±0.003	-0.357±0.007

Table B.32 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.0±0.3	2.7±0.5	-0.74±0.01	-1.27±0.02	0.723±0.007	0.722±0.007	0.034±0.006	-0.025±0.004
4.7	2.2±0.3	1.6±0.4	-0.71±0.01	-1.28±0.02	0.752±0.007	0.751±0.007	0.021±0.006	-0.029±0.004
5.7	2.1±0.3	1.1±0.4	-0.68±0.01	-1.28±0.02	0.774±0.007	0.774±0.007	0.015±0.006	-0.029±0.004
6.7	2.2±0.3	0.9±0.4	-0.65±0.01	-1.28±0.02	0.790±0.007	0.789±0.007	0.012±0.006	-0.030±0.004
7.7	2.1±0.3	0.8±0.4	-0.63±0.01	-1.27±0.02	0.802±0.007	0.801±0.007	0.011±0.005	-0.030±0.004
8.7	2.0±0.3	0.7±0.4	-0.61±0.01	-1.28±0.02	0.821±0.007	0.820±0.007	0.010±0.005	-0.029±0.005
9.8	2.0±0.3	0.7±0.4	-0.59±0.01	-1.28±0.02	0.830±0.007	0.829±0.007	0.011±0.005	-0.029±0.005
10.8	1.9±0.3	0.4±0.4	-0.56±0.01	-1.28±0.02	0.844±0.007	0.843±0.007	0.006±0.005	-0.028±0.005
11.8	1.8±0.3	0.5±0.3	-0.54±0.01	-1.27±0.02	0.851±0.007	0.850±0.006	0.008±0.005	-0.027±0.005
12.8	1.8±0.3	0.6±0.3	-0.53±0.01	-1.28±0.02	0.862±0.006	0.861±0.006	0.009±0.005	-0.028±0.005
13.8	1.8±0.3	0.5±0.3	-0.51±0.01	-1.27±0.02	0.870±0.006	0.869±0.006	0.008±0.005	-0.027±0.005
16.4	1.6±0.3	0.6±0.3	-0.48±0.01	-1.27±0.02	0.889±0.006	0.889±0.006	0.009±0.005	-0.025±0.005
18.9	1.5±0.3	0.7±0.3	-0.46±0.01	-1.29±0.02	0.911±0.006	0.910±0.006	0.010±0.005	-0.024±0.005
21.4	1.5±0.3	0.7±0.3	-0.42±0.01	-1.28±0.02	0.927±0.006	0.926±0.006	0.011±0.005	-0.024±0.005
24.0	1.3±0.3	0.6±0.3	-0.39±0.01	-1.28±0.02	0.941±0.006	0.941±0.006	0.010±0.005	-0.022±0.005
26.5	1.4±0.3	0.7±0.3	-0.37±0.01	-1.28±0.02	0.956±0.006	0.955±0.006	0.011±0.005	-0.023±0.005
29.1	1.3±0.3	0.7±0.3	-0.34±0.01	-1.28±0.02	0.970±0.006	0.969±0.006	0.012±0.005	-0.021±0.005
31.6	1.2±0.3	0.7±0.3	-0.32±0.01	-1.29±0.02	0.983±0.006	0.983±0.006	0.011±0.004	-0.021±0.005
34.1	1.2±0.3	0.6±0.3	-0.29±0.01	-1.28±0.02	0.995±0.006	0.995±0.006	0.011±0.004	-0.021±0.005
36.7	1.1±0.3	0.7±0.2	-0.26±0.01	-1.27±0.02	1.004±0.006	1.004±0.006	0.012±0.004	-0.020±0.006
39.2	1.1±0.3	0.7±0.2	-0.24±0.01	-1.27±0.02	1.014±0.006	1.014±0.006	0.012±0.004	-0.020±0.006
44.3	1.1±0.3	0.7±0.2	-0.19±0.01	-1.27±0.02	1.039±0.007	1.039±0.007	0.012±0.004	-0.020±0.006
49.4	1.0±0.3	0.7±0.2	-0.16±0.01	-1.28±0.02	1.062±0.007	1.062±0.007	0.012±0.004	-0.019±0.006
54.5	1.0±0.3	0.7±0.2	-0.11±0.01	-1.28±0.02	1.078±0.007	1.078±0.007	0.012±0.004	-0.018±0.006
59.5	1.0±0.3	0.8±0.2	-0.08±0.01	-1.28±0.02	1.095±0.007	1.095±0.007	0.015±0.004	-0.019±0.006
64.6	0.9±0.3	0.8±0.2	-0.05±0.01	-1.27±0.02	1.104±0.007	1.104±0.007	0.016±0.004	-0.017±0.006
69.7	0.9±0.3	0.8±0.2	-0.03±0.01	-1.27±0.02	1.117±0.007	1.117±0.007	0.016±0.004	-0.018±0.006
74.8	0.9±0.3	0.8±0.2	-0.01±0.01	-1.27±0.02	1.122±0.007	1.122±0.007	0.016±0.004	-0.018±0.006
79.9	0.9±0.3	0.8±0.2	0.00±0.01	-1.27±0.02	1.128±0.007	1.128±0.007	0.016±0.004	-0.019±0.006
84.9	1.0±0.3	0.8±0.2	0.01±0.01	-1.27±0.02	1.131±0.007	1.130±0.007	0.016±0.004	-0.019±0.006
90.0	1.0±0.3	0.8±0.2	0.01±0.01	-1.27±0.02	1.132±0.007	1.132±0.007	0.016±0.004	-0.019±0.006
100.2	1.1±0.3	0.8±0.2	0.01±0.01	-1.27±0.02	1.133±0.007	1.133±0.007	0.016±0.004	-0.021±0.006
110.3	1.0±0.3	0.8±0.2	0.01±0.01	-1.27±0.02	1.132±0.007	1.131±0.007	0.016±0.004	-0.021±0.006
120.5	1.0±0.3	0.8±0.2	0.01±0.01	-1.27±0.02	1.132±0.007	1.132±0.007	0.016±0.004	-0.021±0.006
130.7	1.0±0.3	0.8±0.2	0.01±0.01	-1.27±0.02	1.131±0.007	1.130±0.007	0.016±0.004	-0.021±0.006
140.8	1.0±0.3	0.8±0.2	0.01±0.01	-1.27±0.02	1.131±0.007	1.131±0.007	0.016±0.004	-0.020±0.006

Table B.33 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.7±0.3	2.7±0.5	-0.73±0.01	-1.29±0.02	0.747±0.007	0.745±0.007	0.035±0.006	-0.035±0.004
4.7	2.7±0.3	1.6±0.4	-0.69±0.01	-1.29±0.02	0.774±0.007	0.773±0.007	0.021±0.006	-0.036±0.004
5.7	2.7±0.3	1.2±0.4	-0.66±0.01	-1.29±0.02	0.793±0.007	0.792±0.007	0.016±0.006	-0.038±0.004
6.7	2.7±0.3	0.8±0.4	-0.63±0.01	-1.29±0.02	0.813±0.007	0.812±0.007	0.012±0.005	-0.038±0.004
7.7	2.6±0.3	0.8±0.4	-0.61±0.01	-1.29±0.02	0.829±0.007	0.828±0.007	0.011±0.005	-0.038±0.005
8.7	2.5±0.3	0.7±0.4	-0.59±0.01	-1.28±0.02	0.833±0.007	0.832±0.007	0.010±0.005	-0.037±0.005
9.8	2.4±0.3	0.5±0.3	-0.57±0.01	-1.30±0.02	0.858±0.006	0.857±0.006	0.007±0.005	-0.036±0.005
10.8	2.3±0.3	0.5±0.3	-0.55±0.01	-1.30±0.02	0.864±0.006	0.863±0.006	0.007±0.005	-0.035±0.005
11.8	2.2±0.3	0.5±0.3	-0.54±0.01	-1.29±0.02	0.871±0.006	0.870±0.006	0.007±0.005	-0.034±0.005
12.8	2.1±0.3	0.4±0.3	-0.52±0.01	-1.29±0.02	0.881±0.006	0.880±0.006	0.007±0.005	-0.033±0.005
13.8	2.1±0.3	0.4±0.3	-0.51±0.01	-1.31±0.02	0.893±0.006	0.892±0.006	0.007±0.005	-0.033±0.005
16.4	1.9±0.3	0.5±0.3	-0.46±0.01	-1.29±0.02	0.911±0.006	0.911±0.006	0.007±0.005	-0.030±0.005
18.9	1.8±0.3	0.5±0.3	-0.43±0.01	-1.29±0.02	0.926±0.006	0.926±0.006	0.007±0.005	-0.029±0.005
21.4	1.6±0.3	0.5±0.3	-0.40±0.01	-1.30±0.02	0.944±0.006	0.944±0.006	0.008±0.005	-0.027±0.005
24.0	1.4±0.3	0.5±0.3	-0.38±0.01	-1.30±0.02	0.960±0.006	0.959±0.006	0.008±0.005	-0.024±0.005
26.5	1.4±0.3	0.5±0.3	-0.35±0.01	-1.29±0.02	0.968±0.006	0.968±0.006	0.008±0.005	-0.023±0.005
29.1	1.3±0.3	0.6±0.3	-0.33±0.01	-1.30±0.02	0.986±0.006	0.986±0.006	0.011±0.004	-0.023±0.005
31.6	1.3±0.3	0.6±0.3	-0.30±0.01	-1.30±0.02	0.996±0.006	0.996±0.006	0.011±0.004	-0.022±0.005
34.1	1.2±0.3	0.6±0.2	-0.27±0.01	-1.30±0.02	1.010±0.006	1.010±0.006	0.011±0.004	-0.021±0.006
36.7	1.1±0.3	0.7±0.2	-0.26±0.01	-1.29±0.02	1.016±0.006	1.016±0.006	0.012±0.004	-0.019±0.006
39.2	1.0±0.3	0.6±0.2	-0.24±0.01	-1.30±0.02	1.030±0.007	1.029±0.007	0.011±0.004	-0.018±0.006
44.3	1.0±0.3	0.7±0.2	-0.19±0.01	-1.30±0.02	1.052±0.007	1.052±0.007	0.012±0.004	-0.018±0.006
49.4	0.9±0.3	0.6±0.2	-0.15±0.01	-1.29±0.02	1.068±0.007	1.068±0.007	0.012±0.004	-0.017±0.006
54.5	0.9±0.3	0.7±0.2	-0.11±0.01	-1.29±0.02	1.087±0.007	1.087±0.007	0.013±0.004	-0.017±0.006
59.5	0.8±0.3	0.7±0.2	-0.08±0.01	-1.29±0.02	1.100±0.007	1.100±0.007	0.014±0.004	-0.016±0.006
64.6	0.8±0.3	0.8±0.2	-0.05±0.01	-1.29±0.02	1.115±0.007	1.114±0.007	0.015±0.004	-0.016±0.006
69.7	0.8±0.3	0.8±0.2	-0.02±0.01	-1.29±0.02	1.126±0.007	1.126±0.007	0.016±0.004	-0.016±0.006
74.8	0.8±0.3	0.8±0.2	-0.01±0.01	-1.29±0.02	1.133±0.007	1.132±0.007	0.016±0.004	-0.015±0.006
79.9	0.8±0.3	0.8±0.2	0.00±0.01	-1.29±0.02	1.138±0.007	1.137±0.007	0.016±0.004	-0.016±0.006
84.9	0.8±0.3	0.8±0.2	0.01±0.01	-1.29±0.02	1.139±0.007	1.139±0.007	0.016±0.004	-0.016±0.006
90.0	0.7±0.3	0.8±0.2	0.01±0.01	-1.29±0.02	1.140±0.007	1.139±0.007	0.016±0.004	-0.014±0.006
100.2	0.8±0.3	0.8±0.2	0.01±0.01	-1.29±0.02	1.140±0.007	1.139±0.007	0.016±0.004	-0.016±0.006
110.3	0.8±0.3	0.8±0.2	0.01±0.01	-1.29±0.02	1.139±0.007	1.139±0.007	0.016±0.004	-0.016±0.006
120.5	0.9±0.3	0.8±0.2	0.01±0.01	-1.29±0.02	1.139±0.007	1.139±0.007	0.016±0.004	-0.017±0.006
130.7	1.0±0.3	0.8±0.2	0.01±0.01	-1.29±0.02	1.139±0.007	1.138±0.007	0.016±0.004	-0.019±0.006
140.8	0.9±0.3	0.8±0.2	0.01±0.01	-1.29±0.02	1.138±0.007	1.137±0.007	0.016±0.004	-0.018±0.006

Table B.34 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.6±0.3	2.5±0.4	-0.71±0.01	-1.32±0.02	0.776±0.007	0.773±0.007	0.034±0.006	-0.049±0.004
4.7	3.7±0.3	1.6±0.4	-0.68±0.01	-1.31±0.02	0.798±0.007	0.796±0.007	0.022±0.006	-0.052±0.004
5.7	3.5±0.3	1.2±0.4	-0.65±0.01	-1.32±0.02	0.818±0.007	0.817±0.007	0.017±0.005	-0.050±0.005
6.7	3.5±0.3	1.0±0.4	-0.63±0.01	-1.33±0.02	0.836±0.007	0.834±0.007	0.015±0.005	-0.051±0.005
7.7	3.3±0.3	0.8±0.4	-0.60±0.01	-1.32±0.02	0.847±0.007	0.846±0.007	0.012±0.005	-0.049±0.005
8.7	3.2±0.3	0.8±0.3	-0.58±0.01	-1.31±0.02	0.857±0.007	0.856±0.007	0.012±0.005	-0.048±0.005
9.8	3.1±0.3	0.7±0.3	-0.56±0.01	-1.31±0.02	0.868±0.007	0.866±0.007	0.010±0.005	-0.046±0.005
10.8	2.9±0.3	0.6±0.3	-0.54±0.01	-1.32±0.02	0.881±0.006	0.880±0.006	0.009±0.005	-0.045±0.005
11.8	2.8±0.3	0.6±0.3	-0.53±0.01	-1.32±0.02	0.890±0.006	0.889±0.006	0.010±0.005	-0.044±0.005
12.8	2.7±0.3	0.6±0.3	-0.52±0.01	-1.32±0.02	0.895±0.006	0.894±0.006	0.009±0.005	-0.042±0.005
13.8	2.6±0.3	0.5±0.3	-0.50±0.01	-1.33±0.02	0.909±0.006	0.908±0.006	0.008±0.005	-0.041±0.005
16.4	2.4±0.3	0.5±0.3	-0.46±0.01	-1.32±0.02	0.925±0.006	0.924±0.006	0.009±0.005	-0.039±0.005
18.9	2.3±0.3	0.6±0.3	-0.43±0.01	-1.31±0.02	0.942±0.006	0.941±0.006	0.010±0.005	-0.037±0.005
21.4	2.1±0.3	0.6±0.3	-0.40±0.01	-1.32±0.02	0.955±0.006	0.955±0.006	0.010±0.005	-0.035±0.005
24.0	2.0±0.3	0.6±0.3	-0.37±0.01	-1.31±0.02	0.971±0.006	0.970±0.006	0.009±0.005	-0.034±0.005
26.5	1.9±0.3	0.6±0.3	-0.35±0.01	-1.32±0.02	0.984±0.006	0.984±0.006	0.011±0.004	-0.033±0.005
29.1	1.8±0.3	0.7±0.3	-0.32±0.01	-1.31±0.02	0.997±0.006	0.996±0.006	0.012±0.004	-0.031±0.006
31.6	1.8±0.3	0.7±0.2	-0.29±0.01	-1.31±0.02	1.010±0.007	1.009±0.007	0.012±0.004	-0.031±0.006
34.1	1.7±0.3	0.7±0.2	-0.27±0.01	-1.31±0.02	1.021±0.007	1.020±0.007	0.012±0.004	-0.030±0.006
36.7	1.6±0.3	0.7±0.2	-0.25±0.01	-1.32±0.02	1.032±0.007	1.032±0.007	0.012±0.004	-0.028±0.006
39.2	1.5±0.3	0.7±0.2	-0.23±0.01	-1.30±0.02	1.038±0.007	1.037±0.007	0.012±0.004	-0.027±0.006
44.3	1.4±0.3	0.7±0.2	-0.19±0.01	-1.31±0.02	1.062±0.007	1.062±0.007	0.013±0.004	-0.026±0.006
49.4	1.3±0.3	0.7±0.2	-0.15±0.01	-1.33±0.02	1.083±0.007	1.082±0.007	0.014±0.004	-0.024±0.006
54.5	1.1±0.3	0.8±0.2	-0.11±0.01	-1.31±0.02	1.095±0.007	1.095±0.007	0.016±0.004	-0.022±0.006
59.5	1.1±0.3	0.8±0.2	-0.07±0.01	-1.31±0.02	1.112±0.007	1.112±0.007	0.016±0.004	-0.022±0.006
64.6	1.0±0.3	0.8±0.2	-0.04±0.01	-1.32±0.02	1.128±0.007	1.128±0.007	0.016±0.004	-0.020±0.006
69.7	1.0±0.3	0.8±0.2	-0.02±0.01	-1.32±0.02	1.138±0.007	1.138±0.007	0.017±0.004	-0.021±0.006
74.8	1.1±0.3	0.8±0.2	0.00±0.01	-1.31±0.02	1.144±0.007	1.143±0.007	0.016±0.004	-0.021±0.006
79.9	1.0±0.3	0.8±0.2	0.00±0.01	-1.31±0.02	1.147±0.007	1.147±0.007	0.016±0.004	-0.020±0.006
84.9	1.1±0.3	0.8±0.2	0.01±0.01	-1.31±0.02	1.149±0.007	1.148±0.007	0.016±0.004	-0.021±0.006
90.0	1.1±0.3	0.8±0.2	0.01±0.01	-1.31±0.02	1.150±0.007	1.149±0.007	0.016±0.004	-0.021±0.006
100.2	1.1±0.3	0.8±0.2	0.01±0.01	-1.31±0.02	1.149±0.007	1.148±0.007	0.016±0.004	-0.022±0.006
110.3	1.1±0.3	0.8±0.2	0.01±0.01	-1.31±0.02	1.148±0.007	1.148±0.007	0.016±0.004	-0.022±0.006
120.5	1.2±0.3	0.9±0.2	0.01±0.01	-1.31±0.02	1.149±0.007	1.149±0.007	0.018±0.004	-0.024±0.006
130.7	1.3±0.3	0.8±0.2	0.01±0.01	-1.31±0.02	1.148±0.007	1.147±0.007	0.016±0.004	-0.025±0.006
140.8	1.2±0.3	0.8±0.2	0.01±0.01	-1.31±0.02	1.148±0.007	1.147±0.007	0.016±0.004	-0.024±0.006

Table B.35 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.6±0.3	2.5±0.4	-0.76±0.01	-1.36±0.02	0.771±0.007	0.768±0.007	0.034±0.006	-0.061±0.004
4.7	4.5±0.3	1.9±0.4	-0.73±0.01	-1.35±0.02	0.788±0.007	0.785±0.007	0.026±0.006	-0.062±0.004
5.7	4.5±0.3	1.5±0.4	-0.71±0.01	-1.35±0.02	0.804±0.007	0.801±0.007	0.022±0.005	-0.063±0.004
6.7	4.3±0.3	1.3±0.4	-0.69±0.01	-1.37±0.02	0.822±0.007	0.820±0.007	0.018±0.005	-0.062±0.005
7.7	4.1±0.3	1.2±0.4	-0.67±0.01	-1.36±0.02	0.835±0.007	0.833±0.007	0.017±0.005	-0.060±0.005
8.7	4.0±0.3	1.1±0.3	-0.64±0.01	-1.37±0.02	0.852±0.007	0.850±0.006	0.017±0.005	-0.059±0.005
9.8	3.9±0.3	1.0±0.3	-0.61±0.01	-1.36±0.02	0.865±0.006	0.863±0.006	0.016±0.005	-0.059±0.005
10.8	3.8±0.3	1.0±0.3	-0.59±0.01	-1.36±0.02	0.874±0.006	0.872±0.006	0.016±0.005	-0.057±0.005
11.8	3.6±0.3	0.9±0.3	-0.58±0.01	-1.37±0.02	0.890±0.006	0.888±0.006	0.015±0.005	-0.055±0.005
12.8	3.5±0.3	0.9±0.3	-0.55±0.01	-1.35±0.02	0.898±0.006	0.896±0.006	0.013±0.005	-0.055±0.005
13.8	3.4±0.3	0.9±0.3	-0.53±0.01	-1.37±0.02	0.913±0.006	0.911±0.006	0.014±0.005	-0.054±0.005
16.4	3.1±0.3	1.0±0.3	-0.50±0.01	-1.36±0.02	0.933±0.006	0.931±0.006	0.016±0.005	-0.050±0.005
18.9	2.9±0.3	0.9±0.3	-0.46±0.01	-1.36±0.02	0.952±0.006	0.951±0.006	0.015±0.005	-0.047±0.005
21.4	2.6±0.3	1.0±0.3	-0.43±0.01	-1.36±0.02	0.966±0.006	0.965±0.006	0.016±0.005	-0.044±0.005
24.0	2.4±0.3	0.9±0.3	-0.40±0.01	-1.37±0.02	0.987±0.006	0.986±0.006	0.016±0.004	-0.042±0.005
26.5	2.3±0.3	0.9±0.3	-0.37±0.01	-1.36±0.02	0.998±0.006	0.997±0.006	0.016±0.004	-0.040±0.006
29.1	2.2±0.3	0.9±0.2	-0.35±0.01	-1.37±0.02	1.011±0.006	1.011±0.006	0.016±0.004	-0.038±0.006
31.6	2.0±0.3	0.9±0.2	-0.32±0.01	-1.36±0.02	1.021±0.007	1.020±0.006	0.016±0.004	-0.036±0.006
34.1	1.9±0.3	0.9±0.2	-0.29±0.01	-1.36±0.02	1.033±0.007	1.033±0.007	0.016±0.004	-0.034±0.006
36.7	1.8±0.3	0.9±0.2	-0.27±0.01	-1.36±0.02	1.047±0.007	1.046±0.007	0.016±0.004	-0.033±0.006
39.2	1.8±0.3	0.9±0.2	-0.24±0.01	-1.36±0.02	1.056±0.007	1.055±0.007	0.016±0.004	-0.033±0.006
44.3	1.6±0.3	0.9±0.2	-0.22±0.01	-1.39±0.02	1.079±0.007	1.079±0.007	0.016±0.004	-0.030±0.006
49.4	1.5±0.3	0.8±0.2	-0.18±0.01	-1.39±0.02	1.098±0.007	1.097±0.007	0.016±0.004	-0.029±0.006
54.5	1.4±0.3	0.8±0.2	-0.14±0.01	-1.39±0.02	1.116±0.007	1.116±0.007	0.016±0.004	-0.027±0.006
59.5	1.3±0.3	0.8±0.2	-0.10±0.01	-1.38±0.02	1.132±0.007	1.131±0.007	0.016±0.004	-0.026±0.006
64.6	1.3±0.3	0.8±0.2	-0.06±0.01	-1.37±0.02	1.145±0.007	1.145±0.007	0.016±0.004	-0.025±0.006
69.7	1.2±0.3	0.8±0.2	-0.02±0.01	-1.35±0.02	1.154±0.007	1.154±0.007	0.016±0.004	-0.024±0.006
74.8	1.2±0.3	0.8±0.2	0.01±0.01	-1.35±0.02	1.163±0.007	1.163±0.007	0.016±0.004	-0.024±0.006
79.9	1.2±0.3	0.8±0.2	0.02±0.01	-1.35±0.02	1.169±0.007	1.169±0.007	0.017±0.004	-0.025±0.006
84.9	1.2±0.3	0.8±0.2	0.03±0.01	-1.34±0.02	1.170±0.007	1.170±0.007	0.017±0.004	-0.025±0.006
90.0	1.3±0.3	0.9±0.2	0.04±0.01	-1.34±0.02	1.172±0.007	1.172±0.007	0.018±0.004	-0.027±0.006
100.2	1.3±0.3	0.9±0.2	0.04±0.01	-1.34±0.02	1.173±0.007	1.172±0.007	0.018±0.004	-0.027±0.006
110.3	1.4±0.3	1.0±0.2	0.04±0.01	-1.33±0.02	1.171±0.007	1.171±0.007	0.020±0.004	-0.029±0.006
120.5	1.4±0.3	1.0±0.2	0.04±0.01	-1.33±0.02	1.171±0.007	1.170±0.007	0.020±0.004	-0.029±0.006
130.7	1.4±0.3	1.0±0.2	0.04±0.01	-1.33±0.02	1.171±0.007	1.170±0.007	0.020±0.004	-0.029±0.006
140.8	1.4±0.3	0.9±0.2	0.04±0.01	-1.33±0.02	1.170±0.007	1.169±0.007	0.019±0.004	-0.029±0.006

Table B.36 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-114 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	7.5±0.3	2.8±0.4	-0.75±0.01	-1.38±0.02	0.794±0.007	0.786±0.007	0.039±0.006	-0.104±0.004
4.7	7.2±0.3	2.0±0.4	-0.73±0.01	-1.39±0.02	0.809±0.007	0.802±0.007	0.028±0.005	-0.102±0.005
5.7	6.8±0.3	1.7±0.4	-0.72±0.01	-1.39±0.02	0.821±0.007	0.815±0.007	0.025±0.005	-0.097±0.005
6.7	6.2±0.3	1.5±0.4	-0.69±0.01	-1.39±0.02	0.831±0.007	0.826±0.007	0.022±0.005	-0.090±0.005
7.7	5.7±0.3	1.5±0.4	-0.68±0.01	-1.39±0.02	0.840±0.007	0.836±0.006	0.022±0.005	-0.083±0.005
8.7	5.2±0.3	1.4±0.3	-0.67±0.01	-1.40±0.02	0.851±0.007	0.847±0.006	0.021±0.005	-0.076±0.005
9.8	4.8±0.3	1.2±0.3	-0.66±0.01	-1.40±0.02	0.863±0.006	0.860±0.006	0.019±0.005	-0.072±0.005
10.8	4.4±0.3	1.2±0.3	-0.60±0.01	-1.37±0.02	0.873±0.006	0.871±0.006	0.019±0.005	-0.068±0.005
11.8	4.2±0.3	1.2±0.3	-0.57±0.01	-1.36±0.02	0.888±0.006	0.886±0.006	0.019±0.005	-0.064±0.005
12.8	3.9±0.3	1.2±0.3	-0.54±0.01	-1.35±0.02	0.899±0.006	0.896±0.006	0.018±0.005	-0.062±0.005
13.8	3.8±0.3	1.1±0.3	-0.52±0.01	-1.35±0.02	0.911±0.006	0.909±0.006	0.017±0.005	-0.060±0.005
16.4	3.3±0.3	1.2±0.3	-0.49±0.01	-1.36±0.02	0.933±0.006	0.931±0.006	0.019±0.005	-0.054±0.005
18.9	3.0±0.3	1.2±0.3	-0.46±0.01	-1.37±0.02	0.956±0.006	0.955±0.006	0.019±0.005	-0.051±0.005
21.4	2.9±0.3	1.1±0.3	-0.43±0.01	-1.38±0.02	0.972±0.006	0.971±0.006	0.019±0.005	-0.048±0.005
24.0	2.7±0.3	1.0±0.3	-0.40±0.01	-1.38±0.02	0.991±0.006	0.990±0.006	0.018±0.004	-0.048±0.005
26.5	2.5±0.3	1.0±0.2	-0.39±0.01	-1.40±0.02	1.006±0.006	1.005±0.006	0.018±0.004	-0.044±0.006
29.1	2.4±0.3	1.0±0.2	-0.35±0.01	-1.39±0.02	1.019±0.006	1.018±0.006	0.018±0.004	-0.043±0.006
31.6	2.3±0.3	1.0±0.2	-0.33±0.01	-1.40±0.02	1.033±0.007	1.032±0.007	0.017±0.004	-0.041±0.006
34.1	2.2±0.3	0.9±0.2	-0.31±0.01	-1.40±0.02	1.047±0.007	1.046±0.007	0.017±0.004	-0.040±0.006
36.7	2.1±0.3	0.9±0.2	-0.28±0.01	-1.39±0.02	1.055±0.007	1.054±0.007	0.017±0.004	-0.039±0.006
39.2	2.0±0.3	0.9±0.2	-0.26±0.01	-1.40±0.02	1.065±0.007	1.064±0.007	0.016±0.004	-0.038±0.006
44.3	1.9±0.3	0.9±0.2	-0.22±0.01	-1.40±0.02	1.089±0.007	1.088±0.007	0.016±0.004	-0.036±0.006
49.4	1.8±0.3	0.8±0.2	-0.18±0.01	-1.40±0.02	1.108±0.007	1.107±0.007	0.016±0.004	-0.034±0.006
54.5	1.7±0.3	0.8±0.2	-0.14±0.01	-1.42±0.02	1.129±0.007	1.129±0.007	0.016±0.004	-0.033±0.006
59.5	1.6±0.3	0.8±0.2	-0.11±0.01	-1.41±0.02	1.142±0.007	1.141±0.007	0.016±0.004	-0.031±0.006
64.6	1.5±0.3	0.8±0.2	-0.06±0.01	-1.40±0.02	1.155±0.007	1.155±0.007	0.016±0.004	-0.030±0.006
69.7	1.5±0.3	0.8±0.2	-0.04±0.01	-1.39±0.02	1.163±0.007	1.163±0.007	0.016±0.004	-0.030±0.006
74.8	1.5±0.3	0.8±0.2	-0.01±0.01	-1.39±0.02	1.174±0.007	1.174±0.007	0.016±0.004	-0.030±0.006
79.9	1.5±0.3	0.8±0.2	0.00±0.01	-1.40±0.02	1.181±0.007	1.180±0.007	0.016±0.004	-0.031±0.007
84.9	1.6±0.3	0.8±0.2	0.00±0.01	-1.40±0.02	1.184±0.007	1.183±0.007	0.017±0.004	-0.033±0.007
90.0	1.7±0.3	0.9±0.2	0.01±0.01	-1.40±0.02	1.186±0.007	1.186±0.007	0.018±0.004	-0.034±0.007
100.2	1.7±0.3	0.9±0.2	0.01±0.01	-1.40±0.02	1.187±0.007	1.186±0.007	0.019±0.004	-0.035±0.007
110.3	1.8±0.3	1.0±0.2	0.01±0.01	-1.40±0.02	1.187±0.007	1.186±0.007	0.020±0.004	-0.037±0.007
120.5	1.8±0.3	0.9±0.2	0.01±0.01	-1.40±0.02	1.186±0.007	1.186±0.007	0.019±0.004	-0.037±0.007
130.7	1.7±0.3	0.9±0.2	0.01±0.01	-1.39±0.02	1.185±0.007	1.185±0.007	0.020±0.004	-0.036±0.007
140.8	1.8±0.3	1.0±0.2	0.01±0.01	-1.39±0.02	1.185±0.007	1.184±0.007	0.020±0.004	-0.037±0.007

Table B.37 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-108 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	8.1±0.3	2.6±0.4	-0.73±0.01	-1.40±0.02	0.818±0.007	0.809±0.006	0.037±0.005	-0.115±0.005
4.7	7.7±0.3	1.9±0.4	-0.71±0.01	-1.41±0.02	0.837±0.006	0.829±0.006	0.027±0.005	-0.113±0.005
5.7	7.2±0.3	1.5±0.4	-0.69±0.01	-1.41±0.02	0.847±0.006	0.840±0.006	0.022±0.005	-0.107±0.005
6.7	6.7±0.3	1.4±0.3	-0.67±0.01	-1.41±0.02	0.859±0.006	0.853±0.006	0.020±0.005	-0.100±0.005
7.7	6.1±0.3	1.2±0.3	-0.66±0.01	-1.40±0.02	0.864±0.006	0.859±0.006	0.018±0.005	-0.092±0.005
8.7	5.6±0.3	1.1±0.3	-0.64±0.01	-1.41±0.02	0.877±0.006	0.872±0.006	0.017±0.005	-0.086±0.005
9.8	5.1±0.3	1.1±0.3	-0.62±0.01	-1.40±0.02	0.882±0.006	0.878±0.006	0.016±0.005	-0.079±0.005
10.8	4.7±0.3	1.0±0.3	-0.61±0.01	-1.41±0.02	0.897±0.006	0.894±0.006	0.016±0.005	-0.074±0.005
11.8	4.4±0.3	1.1±0.3	-0.59±0.01	-1.41±0.02	0.905±0.006	0.902±0.006	0.017±0.005	-0.069±0.005
12.8	4.0±0.3	1.0±0.3	-0.58±0.01	-1.43±0.02	0.919±0.006	0.917±0.006	0.017±0.005	-0.065±0.005
13.8	3.8±0.3	1.0±0.3	-0.56±0.01	-1.42±0.02	0.927±0.006	0.924±0.006	0.017±0.005	-0.062±0.005
16.4	3.3±0.3	1.0±0.3	-0.56±0.01	-1.46±0.02	0.951±0.006	0.949±0.006	0.017±0.005	-0.055±0.005
18.9	3.0±0.3	1.1±0.3	-0.47±0.01	-1.41±0.02	0.970±0.006	0.968±0.006	0.019±0.004	-0.051±0.005
21.4	2.8±0.3	1.1±0.3	-0.44±0.01	-1.41±0.02	0.989±0.006	0.987±0.006	0.019±0.004	-0.049±0.005
24.0	2.6±0.3	1.1±0.2	-0.42±0.01	-1.42±0.02	1.002±0.006	1.001±0.006	0.019±0.004	-0.046±0.006
26.5	2.5±0.3	1.1±0.2	-0.39±0.01	-1.42±0.02	1.019±0.006	1.018±0.006	0.019±0.004	-0.045±0.006
29.1	2.3±0.3	1.1±0.2	-0.36±0.01	-1.42±0.02	1.029±0.006	1.028±0.006	0.020±0.004	-0.042±0.006
31.6	2.2±0.3	1.0±0.2	-0.33±0.01	-1.42±0.02	1.044±0.006	1.043±0.006	0.018±0.004	-0.040±0.006
34.1	2.1±0.3	1.0±0.2	-0.30±0.01	-1.41±0.02	1.053±0.007	1.052±0.007	0.018±0.004	-0.038±0.006
36.7	2.0±0.3	0.9±0.2	-0.28±0.01	-1.41±0.02	1.065±0.007	1.064±0.007	0.017±0.004	-0.037±0.006
39.2	2.0±0.3	0.9±0.2	-0.25±0.01	-1.41±0.02	1.078±0.007	1.077±0.007	0.016±0.004	-0.038±0.006
44.3	1.8±0.3	0.8±0.2	-0.21±0.01	-1.42±0.02	1.099±0.007	1.099±0.007	0.016±0.004	-0.035±0.006
49.4	1.7±0.3	0.8±0.2	-0.17±0.01	-1.42±0.02	1.118±0.007	1.117±0.007	0.016±0.004	-0.034±0.006
54.5	1.6±0.3	0.8±0.2	-0.13±0.01	-1.42±0.02	1.136±0.007	1.136±0.007	0.016±0.004	-0.033±0.006
59.5	1.5±0.3	0.7±0.2	-0.10±0.01	-1.42±0.02	1.149±0.007	1.149±0.007	0.015±0.004	-0.031±0.006
64.6	1.5±0.3	0.8±0.2	-0.06±0.01	-1.43±0.02	1.168±0.007	1.168±0.007	0.016±0.004	-0.031±0.006
69.7	1.5±0.3	0.8±0.2	-0.03±0.01	-1.42±0.02	1.176±0.007	1.175±0.007	0.016±0.004	-0.031±0.006
74.8	1.5±0.3	0.8±0.2	-0.01±0.01	-1.42±0.02	1.186±0.007	1.186±0.007	0.016±0.004	-0.032±0.007
79.9	1.5±0.3	0.8±0.2	0.00±0.01	-1.42±0.02	1.191±0.007	1.191±0.007	0.016±0.004	-0.032±0.007
84.9	1.6±0.3	0.8±0.2	0.00±0.01	-1.42±0.02	1.194±0.007	1.193±0.007	0.016±0.004	-0.034±0.007
90.0	1.7±0.3	0.8±0.2	0.01±0.01	-1.43±0.02	1.197±0.007	1.197±0.007	0.016±0.004	-0.035±0.007
100.2	1.8±0.3	0.8±0.2	0.01±0.01	-1.42±0.02	1.198±0.007	1.197±0.007	0.017±0.004	-0.037±0.007
110.3	1.8±0.3	0.8±0.2	0.01±0.01	-1.42±0.02	1.197±0.007	1.196±0.007	0.017±0.004	-0.038±0.007
120.5	1.8±0.3	0.9±0.2	0.01±0.01	-1.42±0.02	1.197±0.007	1.196±0.007	0.018±0.004	-0.038±0.007
130.7	1.9±0.3	0.9±0.2	0.01±0.01	-1.42±0.02	1.197±0.007	1.196±0.007	0.020±0.004	-0.039±0.007
140.8	1.8±0.3	1.0±0.2	0.01±0.01	-1.42±0.02	1.196±0.007	1.195±0.007	0.022±0.004	-0.038±0.007

Table B.38 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	9.0±0.3	2.7±0.4	-0.72±0.01	-1.40±0.02	0.820±0.007	0.809±0.006	0.038±0.005	-0.128±0.005
4.7	8.6±0.3	2.0±0.4	-0.70±0.01	-1.41±0.02	0.839±0.007	0.829±0.006	0.029±0.005	-0.125±0.005
5.7	8.0±0.3	1.7±0.4	-0.68±0.01	-1.40±0.02	0.847±0.006	0.839±0.006	0.025±0.005	-0.118±0.005
6.7	7.4±0.3	1.4±0.3	-0.67±0.01	-1.41±0.02	0.863±0.006	0.856±0.006	0.022±0.005	-0.111±0.005
7.7	6.8±0.3	1.4±0.3	-0.66±0.01	-1.42±0.02	0.875±0.006	0.868±0.006	0.021±0.005	-0.103±0.005
8.7	6.3±0.3	1.3±0.3	-0.62±0.01	-1.41±0.02	0.887±0.006	0.881±0.006	0.020±0.005	-0.097±0.005
9.8	5.8±0.3	1.2±0.3	-0.61±0.01	-1.42±0.02	0.896±0.006	0.891±0.006	0.018±0.005	-0.090±0.005
10.8	5.4±0.3	1.2±0.3	-0.59±0.01	-1.42±0.02	0.909±0.006	0.905±0.006	0.019±0.005	-0.085±0.005
11.8	5.0±0.3	1.1±0.3	-0.56±0.01	-1.41±0.02	0.918±0.006	0.915±0.006	0.017±0.005	-0.081±0.005
12.8	4.6±0.3	1.1±0.3	-0.55±0.01	-1.41±0.02	0.928±0.006	0.925±0.006	0.018±0.005	-0.075±0.005
13.8	4.4±0.3	1.1±0.3	-0.54±0.01	-1.42±0.02	0.938±0.006	0.935±0.006	0.017±0.005	-0.072±0.005
16.4	3.9±0.3	1.1±0.3	-0.50±0.01	-1.41±0.02	0.952±0.006	0.950±0.006	0.018±0.005	-0.064±0.005
18.9	3.5±0.3	1.1±0.3	-0.46±0.01	-1.41±0.02	0.973±0.006	0.971±0.006	0.018±0.004	-0.059±0.005
21.4	3.2±0.3	1.0±0.3	-0.44±0.01	-1.41±0.02	0.986±0.006	0.984±0.006	0.018±0.004	-0.055±0.005
24.0	3.0±0.3	1.0±0.2	-0.41±0.01	-1.41±0.02	1.003±0.006	1.002±0.006	0.017±0.004	-0.052±0.006
26.5	2.8±0.3	1.0±0.2	-0.38±0.01	-1.40±0.02	1.013±0.006	1.012±0.006	0.017±0.004	-0.050±0.006
29.1	2.7±0.3	1.0±0.2	-0.35±0.01	-1.40±0.02	1.027±0.006	1.026±0.006	0.017±0.004	-0.048±0.006
31.6	2.6±0.3	0.9±0.2	-0.32±0.01	-1.41±0.02	1.042±0.007	1.041±0.007	0.017±0.004	-0.046±0.006
34.1	2.4±0.3	0.9±0.2	-0.31±0.01	-1.41±0.02	1.047±0.007	1.046±0.007	0.016±0.004	-0.044±0.006
36.7	2.3±0.3	0.9±0.2	-0.28±0.01	-1.41±0.02	1.062±0.007	1.061±0.007	0.016±0.004	-0.043±0.006
39.2	2.3±0.3	0.8±0.2	-0.26±0.01	-1.42±0.02	1.076±0.007	1.075±0.007	0.015±0.004	-0.042±0.006
44.3	2.1±0.3	0.8±0.2	-0.21±0.01	-1.41±0.02	1.095±0.007	1.094±0.007	0.015±0.004	-0.041±0.006
49.4	2.0±0.3	0.7±0.2	-0.18±0.01	-1.42±0.02	1.114±0.007	1.113±0.007	0.014±0.004	-0.039±0.006
54.5	1.9±0.3	0.6±0.2	-0.13±0.01	-1.41±0.02	1.131±0.007	1.130±0.007	0.013±0.004	-0.038±0.006
59.5	1.9±0.3	0.6±0.2	-0.10±0.01	-1.40±0.02	1.144±0.007	1.143±0.007	0.013±0.004	-0.037±0.006
64.6	1.9±0.3	0.6±0.2	-0.06±0.01	-1.41±0.02	1.162±0.007	1.161±0.007	0.013±0.004	-0.038±0.006
69.7	1.9±0.3	0.6±0.2	-0.03±0.01	-1.41±0.02	1.173±0.007	1.173±0.007	0.013±0.004	-0.038±0.006
74.8	1.8±0.3	0.6±0.2	-0.02±0.01	-1.41±0.02	1.179±0.007	1.179±0.007	0.013±0.004	-0.038±0.007
79.9	1.9±0.3	0.6±0.2	0.00±0.01	-1.41±0.02	1.187±0.007	1.187±0.007	0.013±0.004	-0.039±0.007
84.9	2.0±0.3	0.6±0.2	0.01±0.01	-1.41±0.02	1.191±0.007	1.191±0.007	0.013±0.004	-0.041±0.007
90.0	2.0±0.3	0.7±0.2	0.02±0.01	-1.40±0.02	1.193±0.007	1.192±0.007	0.014±0.004	-0.041±0.007
100.2	2.1±0.3	0.8±0.2	0.02±0.01	-1.41±0.02	1.194±0.007	1.193±0.007	0.016±0.004	-0.043±0.007
110.3	2.2±0.3	0.8±0.2	0.02±0.01	-1.40±0.02	1.195±0.007	1.194±0.007	0.016±0.004	-0.045±0.007
120.5	2.2±0.3	0.8±0.2	0.02±0.01	-1.40±0.02	1.193±0.007	1.193±0.007	0.016±0.004	-0.045±0.007
130.7	2.2±0.3	0.8±0.2	0.02±0.01	-1.40±0.02	1.192±0.007	1.191±0.007	0.017±0.004	-0.046±0.007
140.8	2.2±0.3	1.0±0.2	0.02±0.01	-1.40±0.02	1.191±0.007	1.190±0.007	0.020±0.004	-0.046±0.007

Table B.39 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-95 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	9.8±0.3	2.8±0.4	-0.73±0.01	-1.43±0.02	0.838±0.006	0.824±0.006	0.041±0.005	-0.142±0.005
4.7	9.3±0.3	2.1±0.3	-0.71±0.01	-1.44±0.02	0.855±0.006	0.843±0.006	0.032±0.005	-0.137±0.005
5.7	8.4±0.3	2.0±0.3	-0.69±0.01	-1.44±0.02	0.866±0.006	0.856±0.006	0.029±0.005	-0.127±0.005
6.7	7.6±0.3	1.8±0.3	-0.67±0.01	-1.44±0.02	0.877±0.006	0.869±0.006	0.028±0.005	-0.116±0.005
7.7	6.8±0.3	1.7±0.3	-0.66±0.01	-1.44±0.02	0.887±0.006	0.880±0.006	0.026±0.005	-0.106±0.005
8.7	6.2±0.3	1.7±0.3	-0.64±0.01	-1.44±0.02	0.899±0.006	0.893±0.006	0.026±0.005	-0.097±0.005
9.8	5.6±0.3	1.6±0.3	-0.62±0.01	-1.45±0.02	0.912±0.006	0.907±0.006	0.025±0.005	-0.089±0.005
10.8	5.2±0.3	1.5±0.3	-0.60±0.01	-1.45±0.02	0.922±0.006	0.918±0.006	0.025±0.005	-0.083±0.005
11.8	4.8±0.3	1.4±0.3	-0.57±0.01	-1.45±0.02	0.936±0.006	0.933±0.006	0.024±0.005	-0.078±0.005
12.8	4.4±0.3	1.4±0.3	-0.55±0.01	-1.44±0.02	0.943±0.006	0.940±0.006	0.023±0.005	-0.073±0.005
13.8	4.1±0.3	1.3±0.3	-0.53±0.01	-1.44±0.02	0.956±0.006	0.953±0.006	0.022±0.005	-0.069±0.005
16.4	3.6±0.3	1.3±0.3	-0.50±0.01	-1.45±0.02	0.975±0.006	0.973±0.006	0.022±0.004	-0.062±0.005
18.9	3.2±0.3	1.2±0.3	-0.47±0.01	-1.45±0.02	0.992±0.006	0.990±0.006	0.021±0.004	-0.056±0.005
21.4	3.0±0.3	1.2±0.2	-0.44±0.01	-1.45±0.02	1.007±0.006	1.006±0.006	0.021±0.004	-0.052±0.006
24.0	2.7±0.3	1.1±0.2	-0.40±0.01	-1.44±0.02	1.019±0.006	1.018±0.006	0.019±0.004	-0.048±0.006
26.5	2.6±0.3	1.0±0.2	-0.38±0.01	-1.44±0.02	1.031±0.006	1.030±0.006	0.018±0.004	-0.047±0.006
29.1	2.4±0.3	0.9±0.2	-0.35±0.01	-1.44±0.02	1.046±0.006	1.045±0.006	0.017±0.004	-0.043±0.006
31.6	2.3±0.3	0.9±0.2	-0.33±0.01	-1.45±0.02	1.058±0.007	1.057±0.007	0.017±0.004	-0.042±0.006
34.1	2.2±0.3	0.9±0.2	-0.30±0.01	-1.44±0.02	1.066±0.007	1.065±0.007	0.016±0.004	-0.040±0.006
36.7	2.1±0.3	0.8±0.2	-0.28±0.01	-1.44±0.02	1.081±0.007	1.080±0.007	0.015±0.004	-0.039±0.006
39.2	2.0±0.3	0.8±0.2	-0.25±0.01	-1.45±0.02	1.092±0.007	1.091±0.007	0.015±0.004	-0.038±0.006
44.3	1.9±0.3	0.7±0.2	-0.21±0.01	-1.46±0.02	1.116±0.007	1.115±0.007	0.014±0.004	-0.037±0.006
49.4	1.8±0.3	0.6±0.2	-0.17±0.01	-1.45±0.02	1.135±0.007	1.134±0.007	0.012±0.004	-0.036±0.006
54.5	1.7±0.3	0.6±0.2	-0.13±0.01	-1.45±0.02	1.150±0.007	1.149±0.007	0.012±0.004	-0.035±0.006
59.5	1.6±0.3	0.6±0.2	-0.10±0.01	-1.46±0.02	1.167±0.007	1.166±0.007	0.012±0.004	-0.034±0.006
64.6	1.7±0.3	0.6±0.2	-0.06±0.01	-1.45±0.02	1.180±0.007	1.180±0.007	0.012±0.004	-0.035±0.007
69.7	1.7±0.3	0.6±0.2	-0.03±0.01	-1.45±0.02	1.190±0.007	1.190±0.007	0.012±0.004	-0.035±0.007
74.8	1.7±0.3	0.6±0.2	-0.01±0.01	-1.45±0.02	1.200±0.007	1.199±0.007	0.012±0.004	-0.036±0.007
79.9	1.8±0.3	0.6±0.2	0.00±0.01	-1.45±0.02	1.205±0.007	1.204±0.007	0.013±0.004	-0.037±0.007
84.9	1.8±0.3	0.6±0.2	0.01±0.01	-1.45±0.02	1.208±0.007	1.208±0.007	0.013±0.004	-0.039±0.007
90.0	1.9±0.3	0.6±0.2	0.01±0.01	-1.45±0.02	1.210±0.007	1.209±0.007	0.012±0.004	-0.041±0.007
100.2	2.0±0.3	0.7±0.2	0.02±0.01	-1.45±0.02	1.210±0.007	1.209±0.007	0.014±0.004	-0.042±0.007
110.3	2.1±0.3	0.7±0.2	0.02±0.01	-1.45±0.02	1.210±0.007	1.209±0.007	0.016±0.004	-0.043±0.007
120.5	2.1±0.3	0.8±0.2	0.01±0.01	-1.45±0.02	1.210±0.007	1.209±0.007	0.016±0.004	-0.045±0.007
130.7	2.2±0.3	0.8±0.2	0.02±0.01	-1.45±0.02	1.209±0.007	1.208±0.007	0.016±0.004	-0.046±0.007
140.8	2.2±0.3	1.0±0.2	0.01±0.01	-1.44±0.02	1.207±0.007	1.206±0.007	0.020±0.004	-0.045±0.007

Table B.40 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	11.3±0.3	3.0±0.4	-0.72±0.01	-1.45±0.02	0.855±0.006	0.837±0.006	0.043±0.005	-0.167±0.005
4.7	10.7±0.3	2.4±0.3	-0.70±0.01	-1.46±0.02	0.869±0.006	0.853±0.006	0.036±0.005	-0.161±0.005
5.7	9.7±0.3	2.2±0.3	-0.70±0.01	-1.47±0.02	0.882±0.006	0.868±0.006	0.034±0.005	-0.149±0.005
6.7	8.6±0.3	2.0±0.3	-0.68±0.01	-1.46±0.02	0.885±0.006	0.874±0.006	0.031±0.005	-0.132±0.005
7.7	7.6±0.3	2.0±0.3	-0.67±0.01	-1.47±0.02	0.896±0.006	0.887±0.006	0.031±0.005	-0.119±0.005
8.7	6.7±0.3	1.9±0.3	-0.64±0.01	-1.47±0.02	0.910±0.006	0.904±0.006	0.030±0.005	-0.107±0.005
9.8	6.1±0.3	1.9±0.3	-0.62±0.01	-1.46±0.02	0.918±0.006	0.912±0.006	0.030±0.005	-0.097±0.005
10.8	5.4±0.3	1.8±0.3	-0.60±0.01	-1.48±0.02	0.934±0.006	0.929±0.006	0.029±0.005	-0.088±0.005
11.8	5.0±0.3	1.6±0.3	-0.58±0.01	-1.48±0.02	0.946±0.006	0.942±0.006	0.027±0.005	-0.083±0.005
12.8	4.6±0.3	1.6±0.3	-0.56±0.01	-1.47±0.02	0.956±0.006	0.952±0.006	0.027±0.005	-0.077±0.005
13.8	4.3±0.3	1.5±0.3	-0.53±0.01	-1.47±0.02	0.967±0.006	0.964±0.006	0.025±0.005	-0.072±0.005
16.4	3.8±0.3	1.4±0.3	-0.50±0.01	-1.47±0.02	0.983±0.006	0.981±0.006	0.023±0.004	-0.065±0.005
18.9	3.4±0.3	1.3±0.2	-0.46±0.01	-1.47±0.02	1.003±0.006	1.001±0.006	0.023±0.004	-0.060±0.006
21.4	3.1±0.3	1.2±0.2	-0.43±0.01	-1.47±0.02	1.021±0.006	1.019±0.006	0.020±0.004	-0.056±0.006
24.0	3.0±0.3	1.1±0.2	-0.39±0.01	-1.46±0.02	1.034±0.006	1.032±0.006	0.019±0.004	-0.054±0.006
26.5	2.8±0.3	0.9±0.2	-0.38±0.01	-1.48±0.02	1.049±0.006	1.048±0.006	0.017±0.004	-0.051±0.006
29.1	2.7±0.3	0.9±0.2	-0.34±0.01	-1.46±0.02	1.061±0.007	1.059±0.007	0.016±0.004	-0.049±0.006
31.6	2.6±0.3	0.8±0.2	-0.31±0.01	-1.47±0.02	1.074±0.007	1.073±0.007	0.016±0.004	-0.048±0.006
34.1	2.5±0.3	0.7±0.2	-0.29±0.01	-1.48±0.02	1.088±0.007	1.086±0.007	0.014±0.004	-0.047±0.006
36.7	2.4±0.3	0.7±0.2	-0.27±0.01	-1.48±0.02	1.098±0.007	1.097±0.007	0.013±0.004	-0.046±0.006
39.2	2.3±0.3	0.6±0.2	-0.25±0.01	-1.47±0.02	1.107±0.007	1.106±0.007	0.012±0.004	-0.045±0.006
44.3	2.3±0.3	0.6±0.2	-0.20±0.01	-1.48±0.02	1.129±0.007	1.128±0.007	0.011±0.004	-0.045±0.006
49.4	2.2±0.3	0.5±0.2	-0.17±0.01	-1.47±0.02	1.144±0.007	1.143±0.007	0.010±0.004	-0.043±0.006
54.5	2.1±0.3	0.4±0.2	-0.12±0.01	-1.48±0.02	1.164±0.007	1.164±0.007	0.009±0.004	-0.042±0.006
59.5	2.1±0.3	0.4±0.2	-0.09±0.01	-1.49±0.02	1.182±0.007	1.181±0.007	0.009±0.004	-0.044±0.007
64.6	2.1±0.3	0.4±0.2	-0.05±0.01	-1.48±0.02	1.194±0.007	1.193±0.007	0.009±0.004	-0.044±0.007
69.7	2.1±0.3	0.4±0.2	-0.03±0.01	-1.48±0.02	1.204±0.007	1.203±0.007	0.009±0.004	-0.044±0.007
74.8	2.1±0.3	0.4±0.2	-0.01±0.01	-1.48±0.02	1.212±0.007	1.211±0.007	0.009±0.004	-0.045±0.007
79.9	2.2±0.3	0.5±0.2	0.00±0.01	-1.48±0.02	1.217±0.007	1.216±0.007	0.010±0.004	-0.047±0.007
84.9	2.3±0.3	0.5±0.2	0.01±0.01	-1.48±0.02	1.220±0.007	1.219±0.007	0.011±0.004	-0.048±0.007
90.0	2.3±0.3	0.6±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.220±0.007	0.012±0.004	-0.049±0.007
100.2	2.4±0.3	0.6±0.2	0.01±0.01	-1.48±0.02	1.223±0.007	1.222±0.007	0.013±0.004	-0.051±0.007
110.3	2.5±0.3	0.6±0.2	0.01±0.01	-1.48±0.02	1.223±0.007	1.222±0.007	0.014±0.004	-0.053±0.007
120.5	2.5±0.3	0.7±0.2	0.01±0.01	-1.48±0.02	1.223±0.007	1.222±0.007	0.015±0.004	-0.054±0.007
130.7	2.6±0.3	0.8±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.220±0.007	0.016±0.004	-0.056±0.007
140.8	2.6±0.3	0.9±0.2	0.01±0.01	-1.48±0.02	1.220±0.007	1.218±0.007	0.020±0.004	-0.056±0.007

Table B.41 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-83 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	12.5±0.3	3.1±0.3	-0.71±0.01	-1.49±0.02	0.879±0.006	0.857±0.006	0.046±0.005	-0.190±0.005
4.7	11.8±0.3	2.5±0.3	-0.70±0.01	-1.49±0.02	0.892±0.006	0.873±0.006	0.038±0.005	-0.182±0.005
5.7	10.6±0.3	2.2±0.3	-0.69±0.01	-1.49±0.02	0.897±0.006	0.881±0.006	0.034±0.005	-0.164±0.005
6.7	9.3±0.3	2.1±0.3	-0.68±0.01	-1.50±0.02	0.906±0.006	0.894±0.006	0.033±0.005	-0.147±0.005
7.7	8.1±0.3	2.0±0.3	-0.66±0.01	-1.50±0.02	0.915±0.006	0.905±0.006	0.032±0.005	-0.129±0.005
8.7	7.0±0.3	1.9±0.3	-0.64±0.01	-1.50±0.02	0.923±0.006	0.916±0.006	0.031±0.005	-0.113±0.005
9.8	6.1±0.3	1.8±0.3	-0.63±0.01	-1.50±0.02	0.936±0.006	0.930±0.006	0.029±0.005	-0.100±0.005
10.8	5.4±0.3	1.8±0.3	-0.60±0.01	-1.50±0.02	0.946±0.006	0.942±0.006	0.029±0.005	-0.089±0.005
11.8	4.9±0.3	1.6±0.3	-0.58±0.01	-1.50±0.02	0.958±0.006	0.954±0.006	0.027±0.005	-0.081±0.005
12.8	4.4±0.3	1.6±0.3	-0.56±0.01	-1.50±0.02	0.970±0.006	0.967±0.006	0.026±0.004	-0.074±0.005
13.8	4.0±0.3	1.5±0.3	-0.54±0.01	-1.50±0.02	0.977±0.006	0.974±0.006	0.026±0.004	-0.068±0.005
16.4	3.5±0.3	1.4±0.2	-0.49±0.01	-1.49±0.02	1.002±0.006	1.000±0.006	0.024±0.004	-0.060±0.006
18.9	3.1±0.3	1.2±0.2	-0.45±0.01	-1.50±0.02	1.023±0.006	1.021±0.006	0.021±0.004	-0.055±0.006
21.4	2.9±0.3	1.0±0.2	-0.42±0.01	-1.49±0.02	1.035±0.006	1.033±0.006	0.019±0.004	-0.053±0.006
24.0	2.8±0.3	0.9±0.2	-0.40±0.01	-1.50±0.02	1.051±0.007	1.050±0.006	0.016±0.004	-0.051±0.006
26.5	2.7±0.3	0.8±0.2	-0.36±0.01	-1.49±0.02	1.061±0.007	1.060±0.007	0.015±0.004	-0.049±0.006
29.1	2.5±0.3	0.7±0.2	-0.33±0.01	-1.50±0.02	1.080±0.007	1.079±0.007	0.013±0.004	-0.047±0.006
31.6	2.4±0.3	0.6±0.2	-0.31±0.01	-1.50±0.02	1.091±0.007	1.090±0.007	0.012±0.004	-0.046±0.006
34.1	2.4±0.3	0.5±0.2	-0.28±0.01	-1.49±0.02	1.102±0.007	1.101±0.007	0.010±0.004	-0.046±0.006
36.7	2.3±0.3	0.5±0.2	-0.26±0.01	-1.50±0.02	1.113±0.007	1.112±0.007	0.010±0.004	-0.045±0.006
39.2	2.3±0.3	0.4±0.2	-0.25±0.01	-1.51±0.02	1.126±0.007	1.125±0.007	0.009±0.004	-0.044±0.006
44.3	2.2±0.3	0.4±0.2	-0.19±0.01	-1.50±0.02	1.142±0.007	1.142±0.007	0.008±0.004	-0.044±0.006
49.4	2.1±0.3	0.4±0.2	-0.15±0.01	-1.51±0.02	1.163±0.007	1.162±0.007	0.008±0.004	-0.042±0.006
54.5	2.1±0.3	0.4±0.2	-0.12±0.01	-1.51±0.02	1.180±0.007	1.179±0.007	0.008±0.004	-0.043±0.007
59.5	2.0±0.3	0.4±0.2	-0.08±0.01	-1.51±0.02	1.194±0.007	1.194±0.007	0.008±0.004	-0.043±0.007
64.6	2.0±0.3	0.4±0.2	-0.06±0.01	-1.51±0.02	1.207±0.007	1.206±0.007	0.008±0.004	-0.042±0.007
69.7	2.0±0.3	0.4±0.2	-0.03±0.01	-1.51±0.02	1.217±0.007	1.217±0.007	0.008±0.004	-0.043±0.007
74.8	2.1±0.3	0.4±0.2	-0.01±0.01	-1.52±0.02	1.226±0.007	1.226±0.007	0.008±0.004	-0.045±0.007
79.9	2.1±0.3	0.4±0.2	0.00±0.01	-1.52±0.02	1.232±0.007	1.231±0.007	0.009±0.004	-0.046±0.007
84.9	2.3±0.3	0.4±0.2	0.01±0.01	-1.52±0.02	1.235±0.007	1.234±0.007	0.009±0.004	-0.049±0.007
90.0	2.3±0.3	0.4±0.2	0.01±0.01	-1.52±0.02	1.236±0.007	1.234±0.007	0.009±0.004	-0.050±0.007
100.2	2.5±0.3	0.5±0.2	0.01±0.01	-1.52±0.02	1.237±0.007	1.236±0.007	0.011±0.004	-0.054±0.007
110.3	2.5±0.3	0.6±0.2	0.01±0.01	-1.52±0.02	1.237±0.007	1.235±0.007	0.013±0.004	-0.054±0.007
120.5	2.5±0.3	0.7±0.2	0.01±0.01	-1.52±0.02	1.237±0.007	1.235±0.007	0.016±0.004	-0.054±0.007
130.7	2.7±0.3	0.8±0.2	0.01±0.01	-1.52±0.02	1.236±0.007	1.235±0.007	0.017±0.004	-0.057±0.007
140.8	2.7±0.3	0.9±0.2	0.01±0.01	-1.52±0.02	1.235±0.007	1.233±0.007	0.020±0.004	-0.058±0.007

Table B.42 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	13.9±0.3	3.6±0.3	-0.71±0.01	-1.53±0.02	0.906±0.006	0.878±0.006	0.055±0.005	-0.218±0.005
4.7	12.9±0.3	3.0±0.3	-0.70±0.01	-1.53±0.02	0.912±0.006	0.888±0.006	0.046±0.005	-0.204±0.005
5.7	11.4±0.3	2.7±0.3	-0.70±0.01	-1.54±0.02	0.920±0.006	0.901±0.006	0.042±0.005	-0.182±0.005
6.7	9.8±0.3	2.5±0.3	-0.68±0.01	-1.55±0.02	0.929±0.006	0.914±0.006	0.039±0.005	-0.158±0.005
7.7	8.2±0.3	2.3±0.3	-0.67±0.01	-1.55±0.02	0.935±0.006	0.925±0.006	0.037±0.005	-0.134±0.005
8.7	7.0±0.3	2.1±0.3	-0.65±0.01	-1.55±0.02	0.948±0.006	0.940±0.006	0.035±0.005	-0.115±0.005
9.8	5.9±0.3	1.9±0.3	-0.63±0.01	-1.55±0.02	0.959±0.006	0.953±0.006	0.032±0.005	-0.099±0.005
10.8	5.1±0.3	1.8±0.3	-0.60±0.01	-1.54±0.02	0.968±0.006	0.964±0.006	0.030±0.005	-0.086±0.005
11.8	4.5±0.3	1.7±0.3	-0.58±0.01	-1.54±0.02	0.981±0.006	0.977±0.006	0.028±0.004	-0.076±0.005
12.8	4.0±0.3	1.4±0.3	-0.55±0.01	-1.54±0.02	0.993±0.006	0.991±0.006	0.025±0.004	-0.070±0.005
13.8	3.7±0.3	1.3±0.3	-0.53±0.01	-1.54±0.02	1.001±0.006	0.999±0.006	0.022±0.004	-0.065±0.006
16.4	3.1±0.3	1.1±0.2	-0.49±0.01	-1.53±0.02	1.024±0.006	1.022±0.006	0.019±0.004	-0.056±0.006
18.9	2.8±0.3	0.8±0.2	-0.45±0.01	-1.53±0.02	1.043±0.007	1.041±0.006	0.015±0.004	-0.051±0.006
21.4	2.7±0.3	0.7±0.2	-0.42±0.01	-1.55±0.02	1.060±0.007	1.059±0.007	0.012±0.004	-0.050±0.006
24.0	2.6±0.3	0.6±0.2	-0.39±0.01	-1.54±0.02	1.072±0.007	1.071±0.007	0.011±0.004	-0.048±0.006
26.5	2.5±0.3	0.5±0.2	-0.36±0.01	-1.53±0.02	1.083±0.007	1.082±0.007	0.009±0.004	-0.048±0.006
29.1	2.5±0.3	0.4±0.2	-0.33±0.01	-1.54±0.02	1.098±0.007	1.096±0.007	0.008±0.004	-0.047±0.006
31.6	2.4±0.3	0.4±0.2	-0.30±0.01	-1.53±0.02	1.110±0.007	1.109±0.007	0.008±0.004	-0.047±0.006
34.1	2.3±0.3	0.4±0.2	-0.28±0.01	-1.54±0.02	1.123±0.007	1.122±0.007	0.007±0.004	-0.046±0.006
36.7	2.3±0.3	0.3±0.2	-0.25±0.01	-1.53±0.02	1.131±0.007	1.130±0.007	0.006±0.004	-0.045±0.006
39.2	2.3±0.3	0.2±0.2	-0.23±0.01	-1.54±0.02	1.144±0.007	1.143±0.007	0.004±0.004	-0.045±0.006
44.3	2.2±0.3	0.2±0.2	-0.19±0.01	-1.54±0.02	1.163±0.007	1.163±0.007	0.004±0.004	-0.044±0.006
49.4	2.2±0.3	0.2±0.2	-0.16±0.01	-1.55±0.02	1.181±0.007	1.181±0.007	0.004±0.004	-0.045±0.007
54.5	2.2±0.3	0.2±0.2	-0.11±0.01	-1.55±0.02	1.198±0.007	1.197±0.007	0.004±0.004	-0.045±0.007
59.5	2.1±0.3	0.2±0.2	-0.08±0.01	-1.55±0.02	1.213±0.007	1.212±0.007	0.005±0.004	-0.045±0.007
64.6	2.2±0.3	0.2±0.2	-0.05±0.01	-1.56±0.02	1.226±0.007	1.225±0.007	0.005±0.004	-0.046±0.007
69.7	2.2±0.3	0.2±0.2	-0.03±0.01	-1.56±0.02	1.236±0.007	1.235±0.007	0.005±0.004	-0.047±0.007
74.8	2.2±0.3	0.2±0.2	-0.01±0.01	-1.55±0.02	1.243±0.007	1.242±0.007	0.005±0.003	-0.048±0.007
79.9	2.3±0.3	0.3±0.2	0.00±0.01	-1.56±0.02	1.248±0.007	1.247±0.007	0.007±0.003	-0.049±0.007
84.9	2.3±0.3	0.4±0.2	0.01±0.01	-1.56±0.02	1.251±0.007	1.250±0.007	0.008±0.003	-0.051±0.007
90.0	2.4±0.3	0.4±0.2	0.01±0.01	-1.56±0.02	1.253±0.007	1.252±0.007	0.008±0.003	-0.053±0.007
100.2	2.6±0.3	0.4±0.2	0.01±0.01	-1.56±0.02	1.255±0.007	1.253±0.007	0.010±0.003	-0.057±0.007
110.3	2.7±0.3	0.5±0.2	0.01±0.01	-1.57±0.02	1.256±0.007	1.254±0.007	0.012±0.003	-0.060±0.007
120.5	2.7±0.3	0.6±0.2	0.01±0.01	-1.56±0.02	1.254±0.007	1.253±0.007	0.013±0.003	-0.059±0.007
130.7	2.8±0.3	0.8±0.2	0.01±0.01	-1.56±0.02	1.253±0.007	1.252±0.007	0.016±0.003	-0.061±0.007
140.8	2.8±0.3	0.9±0.2	0.01±0.01	-1.55±0.02	1.251±0.007	1.250±0.007	0.020±0.003	-0.062±0.007

Table B.43 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	15.6±0.3	4.3±0.3	-0.72±0.01	-1.57±0.02	0.924±0.006	0.887±0.006	0.066±0.005	-0.248±0.005
4.7	14.0±0.3	3.6±0.3	-0.73±0.01	-1.59±0.02	0.927±0.006	0.897±0.006	0.056±0.005	-0.223±0.005
5.7	11.9±0.3	3.0±0.3	-0.72±0.01	-1.59±0.02	0.933±0.006	0.911±0.006	0.049±0.005	-0.191±0.005
6.7	9.6±0.3	2.7±0.3	-0.71±0.01	-1.60±0.02	0.940±0.006	0.926±0.006	0.043±0.005	-0.156±0.005
7.7	7.6±0.3	2.2±0.3	-0.69±0.01	-1.59±0.02	0.949±0.006	0.940±0.006	0.037±0.005	-0.125±0.005
8.7	6.0±0.3	1.8±0.3	-0.66±0.01	-1.59±0.02	0.966±0.006	0.960±0.006	0.029±0.005	-0.101±0.005
9.8	4.9±0.3	1.3±0.3	-0.63±0.01	-1.58±0.02	0.977±0.006	0.973±0.006	0.023±0.004	-0.084±0.005
10.8	4.1±0.3	1.1±0.3	-0.60±0.01	-1.58±0.02	0.990±0.006	0.987±0.006	0.018±0.004	-0.071±0.005
11.8	3.6±0.3	0.9±0.2	-0.58±0.01	-1.58±0.02	1.004±0.006	1.002±0.006	0.016±0.004	-0.063±0.006
12.8	3.3±0.3	0.8±0.2	-0.55±0.01	-1.57±0.02	1.012±0.006	1.011±0.006	0.014±0.004	-0.058±0.006
13.8	3.0±0.3	0.6±0.2	-0.52±0.01	-1.56±0.02	1.022±0.006	1.020±0.006	0.010±0.004	-0.053±0.006
16.4	2.6±0.3	0.4±0.2	-0.47±0.01	-1.57±0.02	1.046±0.007	1.045±0.007	0.008±0.004	-0.048±0.006
18.9	2.6±0.3	0.3±0.2	-0.43±0.01	-1.56±0.02	1.063±0.007	1.061±0.007	0.006±0.004	-0.048±0.006
21.4	2.5±0.3	0.3±0.2	-0.41±0.01	-1.56±0.02	1.076±0.007	1.075±0.007	0.005±0.004	-0.047±0.006
24.0	2.5±0.3	0.2±0.2	-0.38±0.01	-1.57±0.02	1.091±0.007	1.090±0.007	0.003±0.004	-0.047±0.006
26.5	2.5±0.3	0.2±0.2	-0.34±0.01	-1.56±0.02	1.103±0.007	1.102±0.007	0.003±0.004	-0.047±0.006
29.1	2.4±0.3	0.1±0.2	-0.32±0.01	-1.57±0.02	1.116±0.007	1.115±0.007	0.001±0.004	-0.046±0.006
31.6	2.4±0.3	0.0±0.2	-0.30±0.01	-1.57±0.02	1.130±0.007	1.129±0.007	0.000±0.004	-0.047±0.006
34.1	2.3±0.3	0.0±0.2	-0.26±0.01	-1.57±0.02	1.140±0.007	1.139±0.007	0.000±0.004	-0.047±0.006
36.7	2.3±0.3	0.0±0.2	-0.25±0.01	-1.57±0.02	1.150±0.007	1.149±0.007	0.000±0.004	-0.046±0.006
39.2	2.3±0.3	0.0±0.2	-0.23±0.01	-1.57±0.02	1.161±0.007	1.160±0.007	0.000±0.004	-0.046±0.006
44.3	2.2±0.3	-0.1±0.2	-0.19±0.01	-1.59±0.02	1.181±0.007	1.180±0.007	-0.002±0.004	-0.045±0.007
49.4	2.2±0.3	-0.1±0.2	-0.14±0.01	-1.58±0.02	1.198±0.007	1.197±0.007	-0.001±0.004	-0.046±0.007
54.5	2.2±0.3	-0.1±0.2	-0.11±0.01	-1.58±0.02	1.211±0.007	1.211±0.007	-0.002±0.004	-0.047±0.007
59.5	2.2±0.3	-0.1±0.2	-0.08±0.01	-1.59±0.02	1.229±0.007	1.228±0.007	-0.001±0.004	-0.047±0.007
64.6	2.2±0.3	0.0±0.2	-0.05±0.01	-1.59±0.02	1.242±0.007	1.241±0.007	0.001±0.004	-0.048±0.007
69.7	2.2±0.3	0.1±0.2	-0.03±0.01	-1.60±0.02	1.252±0.007	1.251±0.007	0.002±0.003	-0.049±0.007
74.8	2.3±0.3	0.1±0.2	-0.01±0.01	-1.60±0.02	1.261±0.007	1.260±0.007	0.002±0.003	-0.051±0.007
79.9	2.3±0.3	0.1±0.2	0.00±0.01	-1.60±0.02	1.265±0.007	1.264±0.007	0.003±0.003	-0.052±0.007
84.9	2.5±0.3	0.2±0.2	0.01±0.01	-1.60±0.02	1.268±0.007	1.267±0.007	0.004±0.003	-0.054±0.007
90.0	2.5±0.3	0.2±0.2	0.01±0.01	-1.61±0.02	1.271±0.007	1.270±0.007	0.005±0.003	-0.056±0.007
100.2	2.7±0.3	0.4±0.2	0.01±0.01	-1.60±0.02	1.272±0.007	1.270±0.007	0.009±0.003	-0.060±0.007
110.3	2.8±0.3	0.4±0.2	0.01±0.01	-1.61±0.02	1.272±0.007	1.271±0.007	0.010±0.003	-0.062±0.007
120.5	2.8±0.3	0.6±0.2	0.01±0.01	-1.61±0.02	1.271±0.007	1.270±0.007	0.013±0.003	-0.063±0.007
130.7	2.9±0.3	0.7±0.2	0.01±0.01	-1.60±0.02	1.270±0.007	1.269±0.007	0.016±0.003	-0.065±0.007
140.8	3.0±0.3	0.9±0.2	0.01±0.01	-1.60±0.02	1.269±0.007	1.267±0.007	0.020±0.003	-0.067±0.007

Table B.44 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	16.6±0.3	2.7±0.3	-0.68±0.01	-1.61±0.02	0.964±0.006	0.923±0.006	0.044±0.005	-0.275±0.005
4.7	15.4±0.3	1.6±0.3	-0.70±0.01	-1.64±0.02	0.967±0.006	0.932±0.006	0.026±0.005	-0.256±0.005
5.7	12.7±0.3	0.8±0.3	-0.71±0.01	-1.64±0.02	0.964±0.006	0.940±0.006	0.014±0.005	-0.212±0.005
6.7	10.4±0.3	0.1±0.3	-0.69±0.01	-1.63±0.02	0.969±0.006	0.953±0.006	0.002±0.005	-0.174±0.005
7.7	8.4±0.3	-0.5±0.3	-0.67±0.01	-1.64±0.02	0.986±0.006	0.975±0.006	-0.008±0.004	-0.144±0.005
8.7	6.9±0.3	-0.6±0.3	-0.63±0.01	-1.63±0.02	0.999±0.006	0.991±0.006	-0.011±0.004	-0.120±0.006
9.8	5.9±0.3	-0.9±0.2	-0.60±0.01	-1.62±0.02	1.011±0.006	1.006±0.006	-0.015±0.004	-0.105±0.006
10.8	5.3±0.3	-0.9±0.2	-0.57±0.01	-1.62±0.02	1.024±0.007	1.020±0.007	-0.017±0.004	-0.094±0.006
11.8	4.9±0.3	-0.9±0.2	-0.55±0.01	-1.62±0.02	1.037±0.007	1.033±0.007	-0.017±0.004	-0.088±0.006
12.8	4.6±0.3	-0.8±0.2	-0.52±0.01	-1.62±0.02	1.048±0.007	1.044±0.007	-0.015±0.004	-0.084±0.006
13.8	4.4±0.3	-0.8±0.2	-0.50±0.01	-1.62±0.02	1.057±0.007	1.054±0.007	-0.014±0.004	-0.081±0.006
16.4	4.2±0.3	-0.7±0.2	-0.45±0.01	-1.62±0.02	1.080±0.007	1.077±0.007	-0.013±0.004	-0.079±0.006
18.9	4.1±0.3	-0.5±0.2	-0.42±0.01	-1.61±0.02	1.093±0.007	1.090±0.007	-0.010±0.004	-0.078±0.006
21.4	4.0±0.3	-0.5±0.2	-0.39±0.01	-1.62±0.02	1.107±0.007	1.104±0.007	-0.009±0.004	-0.078±0.006
24.0	4.0±0.3	-0.5±0.2	-0.36±0.01	-1.62±0.02	1.120±0.007	1.117±0.007	-0.009±0.004	-0.077±0.006
26.5	3.9±0.3	-0.4±0.2	-0.34±0.01	-1.62±0.02	1.134±0.007	1.132±0.007	-0.009±0.004	-0.078±0.006
29.1	3.9±0.3	-0.5±0.2	-0.31±0.01	-1.62±0.02	1.147±0.007	1.145±0.007	-0.010±0.004	-0.078±0.006
31.6	3.8±0.3	-0.5±0.2	-0.28±0.01	-1.62±0.02	1.156±0.007	1.153±0.007	-0.009±0.004	-0.077±0.006
34.1	3.8±0.3	-0.5±0.2	-0.26±0.01	-1.63±0.02	1.170±0.007	1.167±0.007	-0.009±0.004	-0.078±0.006
36.7	3.8±0.3	-0.5±0.2	-0.24±0.01	-1.63±0.02	1.180±0.007	1.177±0.007	-0.010±0.004	-0.078±0.007
39.2	3.7±0.3	-0.5±0.2	-0.22±0.01	-1.63±0.02	1.190±0.007	1.187±0.007	-0.010±0.004	-0.078±0.007
44.3	3.7±0.3	-0.4±0.2	-0.18±0.01	-1.65±0.02	1.210±0.007	1.208±0.007	-0.009±0.004	-0.077±0.007
49.4	3.7±0.3	-0.4±0.2	-0.14±0.01	-1.65±0.02	1.226±0.007	1.224±0.007	-0.008±0.004	-0.079±0.007
54.5	3.7±0.3	-0.3±0.2	-0.10±0.01	-1.66±0.02	1.246±0.007	1.244±0.007	-0.007±0.004	-0.080±0.007
59.5	3.7±0.3	-0.4±0.2	-0.07±0.01	-1.65±0.02	1.255±0.007	1.252±0.007	-0.008±0.003	-0.082±0.007
64.6	3.7±0.3	-0.2±0.2	-0.05±0.01	-1.66±0.02	1.271±0.007	1.268±0.007	-0.005±0.003	-0.083±0.007
69.7	3.8±0.3	-0.2±0.2	-0.03±0.01	-1.67±0.02	1.282±0.007	1.279±0.007	-0.005±0.003	-0.085±0.007
74.8	3.9±0.3	-0.2±0.2	-0.01±0.01	-1.67±0.02	1.288±0.007	1.285±0.007	-0.004±0.003	-0.087±0.007
79.9	4.0±0.3	0.0±0.1	0.00±0.01	-1.67±0.02	1.294±0.007	1.291±0.007	-0.001±0.003	-0.089±0.007
84.9	4.1±0.3	0.0±0.1	0.01±0.01	-1.67±0.02	1.297±0.007	1.294±0.007	-0.001±0.003	-0.092±0.007
90.0	4.1±0.3	0.1±0.1	0.01±0.01	-1.68±0.02	1.299±0.007	1.295±0.007	0.002±0.003	-0.094±0.007
100.2	4.3±0.3	0.2±0.1	0.01±0.01	-1.68±0.02	1.300±0.007	1.296±0.007	0.005±0.003	-0.097±0.007
110.3	4.4±0.3	0.4±0.1	0.01±0.01	-1.68±0.02	1.301±0.007	1.297±0.007	0.009±0.003	-0.100±0.007
120.5	4.5±0.3	0.6±0.1	0.01±0.01	-1.68±0.02	1.300±0.007	1.296±0.007	0.012±0.003	-0.101±0.007
130.7	4.5±0.3	0.7±0.1	0.01±0.01	-1.68±0.02	1.299±0.007	1.295±0.007	0.016±0.003	-0.103±0.007
140.8	4.6±0.3	0.9±0.1	0.01±0.01	-1.67±0.02	1.298±0.007	1.293±0.007	0.020±0.003	-0.105±0.007

Table B.45 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	14.2±0.3	1.3±0.3	-0.60±0.01	-1.64±0.02	1.017±0.006	0.986±0.006	0.022±0.004	-0.249±0.006
4.7	13.4±0.3	0.0±0.2	-0.61±0.01	-1.67±0.02	1.030±0.007	1.001±0.006	0.000±0.004	-0.239±0.006
5.7	11.5±0.3	-0.8±0.2	-0.61±0.01	-1.67±0.02	1.030±0.007	1.009±0.006	-0.014±0.004	-0.205±0.006
6.7	9.9±0.3	-1.4±0.2	-0.59±0.01	-1.66±0.02	1.035±0.007	1.019±0.007	-0.025±0.004	-0.178±0.006
7.7	8.5±0.3	-1.8±0.2	-0.57±0.01	-1.66±0.02	1.043±0.007	1.031±0.007	-0.033±0.004	-0.154±0.006
8.7	7.5±0.3	-1.9±0.2	-0.55±0.01	-1.66±0.02	1.051±0.007	1.042±0.007	-0.035±0.004	-0.138±0.006
9.8	6.8±0.3	-2.0±0.2	-0.53±0.01	-1.66±0.02	1.064±0.007	1.056±0.007	-0.037±0.004	-0.126±0.006
10.8	6.2±0.3	-2.0±0.2	-0.50±0.01	-1.66±0.02	1.074±0.007	1.067±0.007	-0.036±0.004	-0.117±0.006
11.8	5.8±0.3	-1.9±0.2	-0.49±0.01	-1.66±0.02	1.081±0.007	1.075±0.007	-0.036±0.004	-0.110±0.006
12.8	5.5±0.3	-1.8±0.2	-0.47±0.01	-1.66±0.02	1.090±0.007	1.085±0.007	-0.034±0.004	-0.105±0.006
13.8	5.3±0.3	-1.7±0.2	-0.46±0.01	-1.66±0.02	1.097±0.007	1.092±0.007	-0.033±0.004	-0.101±0.006
16.4	4.9±0.3	-1.5±0.2	-0.42±0.01	-1.67±0.02	1.115±0.007	1.111±0.007	-0.029±0.004	-0.095±0.006
18.9	4.7±0.3	-1.3±0.2	-0.39±0.01	-1.67±0.02	1.130±0.007	1.126±0.007	-0.026±0.004	-0.092±0.006
21.4	4.5±0.3	-1.3±0.2	-0.37±0.01	-1.67±0.02	1.142±0.007	1.138±0.007	-0.025±0.004	-0.090±0.006
24.0	4.4±0.3	-1.2±0.2	-0.34±0.01	-1.67±0.02	1.154±0.007	1.150±0.007	-0.024±0.004	-0.089±0.006
26.5	4.3±0.3	-1.2±0.2	-0.32±0.01	-1.67±0.02	1.164±0.007	1.160±0.007	-0.024±0.004	-0.087±0.006
29.1	4.3±0.3	-1.1±0.2	-0.30±0.01	-1.68±0.02	1.178±0.007	1.174±0.007	-0.023±0.004	-0.087±0.006
31.6	4.2±0.3	-1.0±0.2	-0.27±0.01	-1.68±0.02	1.187±0.007	1.184±0.007	-0.021±0.004	-0.086±0.007
34.1	4.1±0.3	-1.0±0.2	-0.25±0.01	-1.68±0.02	1.198±0.007	1.195±0.007	-0.022±0.004	-0.086±0.007
36.7	4.1±0.3	-1.0±0.2	-0.23±0.01	-1.69±0.02	1.209±0.007	1.206±0.007	-0.021±0.004	-0.086±0.007
39.2	4.0±0.3	-1.0±0.2	-0.20±0.01	-1.69±0.02	1.221±0.007	1.218±0.007	-0.020±0.004	-0.086±0.007
44.3	4.0±0.3	-0.9±0.2	-0.17±0.01	-1.71±0.02	1.240±0.007	1.237±0.007	-0.019±0.004	-0.086±0.007
49.4	4.0±0.3	-0.9±0.2	-0.13±0.01	-1.71±0.02	1.256±0.007	1.252±0.007	-0.019±0.003	-0.088±0.007
54.5	4.0±0.3	-0.8±0.2	-0.10±0.01	-1.71±0.02	1.269±0.007	1.266±0.007	-0.018±0.003	-0.089±0.007
59.5	4.1±0.3	-0.7±0.2	-0.07±0.01	-1.73±0.02	1.289±0.007	1.286±0.007	-0.015±0.003	-0.092±0.007
64.6	4.1±0.3	-0.6±0.1	-0.04±0.01	-1.72±0.02	1.298±0.007	1.294±0.007	-0.014±0.003	-0.092±0.007
69.7	4.1±0.3	-0.5±0.1	-0.02±0.01	-1.72±0.02	1.306±0.007	1.303±0.007	-0.012±0.003	-0.095±0.007
74.8	4.3±0.3	-0.5±0.1	-0.01±0.01	-1.74±0.02	1.316±0.007	1.312±0.007	-0.011±0.003	-0.098±0.007
79.9	4.3±0.3	-0.3±0.1	0.00±0.01	-1.74±0.02	1.320±0.007	1.316±0.007	-0.007±0.003	-0.100±0.007
84.9	4.4±0.3	-0.3±0.1	0.01±0.01	-1.74±0.02	1.323±0.007	1.319±0.007	-0.006±0.003	-0.101±0.007
90.0	4.5±0.3	-0.2±0.1	0.01±0.01	-1.74±0.02	1.324±0.007	1.320±0.007	-0.004±0.003	-0.104±0.007
100.2	4.7±0.3	0.1±0.1	0.01±0.01	-1.75±0.02	1.326±0.007	1.322±0.007	0.002±0.003	-0.108±0.007
110.3	4.8±0.3	0.2±0.1	0.01±0.01	-1.75±0.02	1.329±0.007	1.324±0.007	0.006±0.003	-0.112±0.007
120.5	4.9±0.3	0.4±0.1	0.01±0.01	-1.75±0.02	1.327±0.007	1.323±0.007	0.010±0.003	-0.113±0.007
130.7	5.0±0.3	0.6±0.1	0.01±0.01	-1.75±0.02	1.326±0.007	1.321±0.007	0.013±0.003	-0.115±0.007
140.8	5.0±0.3	0.8±0.1	0.01±0.01	-1.74±0.02	1.325±0.007	1.320±0.007	0.019±0.003	-0.116±0.007

Table B.46 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	9.6±0.3	1.2±0.2	-0.51±0.01	-1.68±0.02	1.082±0.007	1.067±0.007	0.023±0.004	-0.180±0.006
4.7	8.5±0.3	0.2±0.2	-0.51±0.01	-1.68±0.02	1.081±0.007	1.069±0.007	0.003±0.004	-0.160±0.006
5.7	7.2±0.3	-0.6±0.2	-0.51±0.01	-1.68±0.02	1.081±0.007	1.073±0.007	-0.012±0.004	-0.135±0.006
6.7	6.2±0.3	-1.2±0.2	-0.50±0.01	-1.68±0.02	1.086±0.007	1.080±0.007	-0.023±0.004	-0.117±0.006
7.7	5.9±0.3	-1.6±0.2	-0.50±0.01	-1.68±0.02	1.085±0.007	1.079±0.007	-0.030±0.004	-0.111±0.006
8.7	5.3±0.3	-1.8±0.2	-0.49±0.01	-1.68±0.02	1.091±0.007	1.086±0.007	-0.034±0.004	-0.100±0.006
9.8	4.7±0.3	-1.9±0.2	-0.48±0.01	-1.68±0.02	1.096±0.007	1.092±0.007	-0.036±0.004	-0.091±0.006
10.8	4.2±0.3	-2.0±0.2	-0.47±0.01	-1.68±0.02	1.102±0.007	1.098±0.007	-0.039±0.004	-0.080±0.006
11.8	3.8±0.3	-2.0±0.2	-0.45±0.01	-1.67±0.02	1.106±0.007	1.103±0.007	-0.038±0.004	-0.074±0.006
12.8	3.6±0.3	-2.0±0.2	-0.44±0.01	-1.68±0.02	1.114±0.007	1.111±0.007	-0.039±0.004	-0.069±0.006
13.8	3.3±0.3	-2.0±0.2	-0.43±0.01	-1.68±0.02	1.118±0.007	1.115±0.007	-0.039±0.004	-0.064±0.006
16.4	2.8±0.3	-1.9±0.2	-0.40±0.01	-1.69±0.02	1.136±0.007	1.134±0.007	-0.038±0.004	-0.055±0.006
18.9	2.4±0.3	-1.8±0.2	-0.38±0.01	-1.70±0.02	1.151±0.007	1.149±0.007	-0.037±0.004	-0.049±0.006
21.4	2.2±0.3	-1.8±0.2	-0.35±0.01	-1.71±0.02	1.164±0.007	1.162±0.007	-0.037±0.004	-0.045±0.006
24.0	2.1±0.3	-1.8±0.2	-0.33±0.01	-1.71±0.02	1.176±0.007	1.175±0.007	-0.036±0.004	-0.043±0.006
26.5	1.9±0.3	-1.7±0.2	-0.31±0.01	-1.72±0.02	1.188±0.007	1.187±0.007	-0.035±0.004	-0.040±0.007
29.1	1.8±0.3	-1.6±0.2	-0.28±0.01	-1.72±0.02	1.200±0.007	1.199±0.007	-0.034±0.004	-0.038±0.007
31.6	1.8±0.3	-1.6±0.2	-0.26±0.01	-1.73±0.02	1.209±0.007	1.208±0.007	-0.035±0.004	-0.038±0.007
34.1	1.8±0.3	-1.6±0.2	-0.24±0.01	-1.72±0.02	1.220±0.007	1.219±0.007	-0.034±0.004	-0.037±0.007
36.7	1.7±0.3	-1.6±0.2	-0.22±0.01	-1.73±0.02	1.229±0.007	1.228±0.007	-0.034±0.004	-0.036±0.007
39.2	1.7±0.3	-1.5±0.2	-0.21±0.01	-1.75±0.02	1.241±0.007	1.240±0.007	-0.033±0.004	-0.036±0.007
44.3	1.6±0.3	-1.4±0.2	-0.16±0.01	-1.75±0.02	1.260±0.007	1.259±0.007	-0.031±0.003	-0.036±0.007
49.4	1.6±0.3	-1.3±0.2	-0.13±0.01	-1.76±0.02	1.278±0.007	1.277±0.007	-0.030±0.003	-0.036±0.007
54.5	1.6±0.3	-1.2±0.2	-0.09±0.01	-1.77±0.02	1.295±0.007	1.294±0.007	-0.028±0.003	-0.035±0.007
59.5	1.6±0.3	-1.1±0.1	-0.06±0.01	-1.77±0.02	1.308±0.007	1.307±0.007	-0.025±0.003	-0.037±0.007
64.6	1.6±0.3	-1.0±0.1	-0.04±0.01	-1.78±0.02	1.318±0.007	1.318±0.007	-0.024±0.003	-0.038±0.007
69.7	1.7±0.3	-0.9±0.1	-0.02±0.01	-1.79±0.02	1.329±0.007	1.328±0.007	-0.021±0.003	-0.040±0.007
74.8	1.8±0.3	-0.8±0.1	0.00±0.01	-1.78±0.02	1.334±0.007	1.333±0.007	-0.018±0.003	-0.041±0.007
79.9	1.9±0.3	-0.7±0.1	0.01±0.01	-1.80±0.02	1.343±0.007	1.343±0.007	-0.017±0.003	-0.044±0.007
84.9	2.0±0.3	-0.6±0.1	0.01±0.01	-1.80±0.02	1.347±0.007	1.346±0.007	-0.013±0.003	-0.046±0.007
90.0	2.0±0.3	-0.4±0.1	0.01±0.01	-1.80±0.02	1.348±0.007	1.347±0.007	-0.010±0.003	-0.048±0.007
100.2	2.2±0.3	-0.2±0.1	0.01±0.01	-1.81±0.02	1.351±0.007	1.350±0.007	-0.004±0.003	-0.051±0.007
110.3	2.3±0.3	0.0±0.1	0.01±0.01	-1.81±0.02	1.352±0.007	1.351±0.007	0.000±0.003	-0.053±0.007
120.5	2.4±0.3	0.1±0.1	0.02±0.01	-1.81±0.02	1.352±0.007	1.351±0.007	0.003±0.003	-0.056±0.007
130.7	2.4±0.3	0.4±0.1	0.02±0.01	-1.80±0.02	1.347±0.007	1.346±0.007	0.009±0.003	-0.056±0.007
140.8	2.4±0.3	0.5±0.1	0.01±0.01	-1.80±0.02	1.345±0.007	1.344±0.007	0.012±0.003	-0.057±0.007

Table B.47 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(53 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	8.0±0.3	1.3±0.2	-0.46±0.01	-1.69±0.02	1.107±0.007	1.096±0.007	0.024±0.004	-0.154±0.006
4.7	7.1±0.3	0.1±0.2	-0.46±0.01	-1.69±0.02	1.109±0.007	1.100±0.007	0.002±0.004	-0.137±0.006
5.7	6.2±0.3	-0.7±0.2	-0.45±0.01	-1.69±0.02	1.113±0.007	1.106±0.007	-0.013±0.004	-0.121±0.006
6.7	5.6±0.3	-1.3±0.2	-0.45±0.01	-1.70±0.02	1.120±0.007	1.114±0.007	-0.025±0.004	-0.109±0.006
7.7	5.1±0.3	-1.7±0.2	-0.44±0.01	-1.70±0.02	1.125±0.007	1.120±0.007	-0.033±0.004	-0.099±0.006
8.7	4.6±0.3	-2.0±0.2	-0.43±0.01	-1.71±0.02	1.131±0.007	1.127±0.007	-0.039±0.004	-0.090±0.006
9.8	4.2±0.3	-2.1±0.2	-0.42±0.01	-1.71±0.02	1.135±0.007	1.131±0.007	-0.042±0.004	-0.084±0.006
10.8	3.8±0.3	-2.4±0.2	-0.41±0.01	-1.71±0.02	1.141±0.007	1.138±0.007	-0.047±0.004	-0.076±0.006
11.8	3.6±0.3	-2.5±0.2	-0.40±0.01	-1.73±0.02	1.152±0.007	1.149±0.007	-0.050±0.004	-0.072±0.006
12.8	3.3±0.3	-2.5±0.2	-0.40±0.01	-1.73±0.02	1.152±0.007	1.149±0.007	-0.051±0.004	-0.067±0.006
13.8	3.1±0.3	-2.6±0.2	-0.38±0.01	-1.73±0.02	1.159±0.007	1.156±0.007	-0.053±0.004	-0.062±0.006
16.4	2.6±0.3	-2.8±0.2	-0.36±0.01	-1.73±0.02	1.172±0.007	1.169±0.007	-0.057±0.004	-0.053±0.006
18.9	2.3±0.3	-2.8±0.2	-0.34±0.01	-1.74±0.02	1.183±0.007	1.181±0.007	-0.059±0.004	-0.046±0.007
21.4	2.0±0.3	-2.9±0.2	-0.32±0.01	-1.74±0.02	1.195±0.007	1.193±0.007	-0.060±0.004	-0.042±0.007
24.0	1.9±0.3	-2.8±0.2	-0.29±0.01	-1.75±0.02	1.209±0.007	1.207±0.007	-0.059±0.004	-0.039±0.007
26.5	1.7±0.3	-2.9±0.2	-0.27±0.01	-1.77±0.02	1.222±0.007	1.220±0.007	-0.061±0.004	-0.036±0.007
29.1	1.7±0.3	-2.8±0.2	-0.26±0.01	-1.77±0.02	1.230±0.007	1.228±0.007	-0.060±0.004	-0.036±0.007
31.6	1.5±0.3	-2.8±0.2	-0.23±0.01	-1.78±0.02	1.245±0.007	1.243±0.007	-0.061±0.004	-0.033±0.007
34.1	1.5±0.3	-2.7±0.2	-0.21±0.01	-1.79±0.02	1.256±0.007	1.254±0.007	-0.060±0.004	-0.033±0.007
36.7	1.5±0.3	-2.8±0.2	-0.20±0.01	-1.81±0.02	1.270±0.007	1.268±0.007	-0.062±0.004	-0.032±0.007
39.2	1.4±0.3	-2.7±0.2	-0.17±0.01	-1.81±0.02	1.278±0.007	1.277±0.007	-0.060±0.003	-0.031±0.007
44.3	1.4±0.3	-2.6±0.2	-0.14±0.01	-1.81±0.02	1.295±0.007	1.293±0.007	-0.058±0.003	-0.031±0.007
49.4	1.4±0.3	-2.4±0.1	-0.11±0.01	-1.83±0.02	1.310±0.007	1.309±0.007	-0.054±0.003	-0.032±0.007
54.5	1.3±0.3	-2.2±0.1	-0.09±0.01	-1.85±0.02	1.328±0.007	1.326±0.007	-0.050±0.003	-0.031±0.007
59.5	1.3±0.3	-2.0±0.1	-0.06±0.01	-1.86±0.02	1.341±0.007	1.340±0.007	-0.047±0.003	-0.032±0.007
64.6	1.3±0.3	-1.8±0.1	-0.03±0.01	-1.87±0.02	1.356±0.007	1.355±0.007	-0.042±0.003	-0.032±0.007
69.7	1.5±0.3	-1.6±0.1	-0.02±0.01	-1.88±0.02	1.363±0.007	1.362±0.007	-0.038±0.003	-0.035±0.008
74.8	1.5±0.3	-1.4±0.1	-0.01±0.01	-1.89±0.02	1.371±0.007	1.370±0.007	-0.033±0.003	-0.037±0.008
79.9	1.6±0.3	-1.2±0.1	0.00±0.01	-1.90±0.02	1.378±0.007	1.377±0.007	-0.028±0.003	-0.039±0.008
84.9	1.7±0.3	-0.9±0.1	0.01±0.01	-1.90±0.02	1.381±0.007	1.381±0.007	-0.023±0.003	-0.042±0.008
90.0	1.8±0.3	-0.8±0.1	0.01±0.01	-1.91±0.02	1.385±0.007	1.384±0.007	-0.019±0.003	-0.044±0.008
100.2	1.9±0.3	-0.5±0.1	0.01±0.01	-1.91±0.02	1.386±0.007	1.386±0.007	-0.012±0.003	-0.046±0.008
110.3	1.9±0.3	-0.3±0.1	0.01±0.01	-1.92±0.02	1.389±0.007	1.388±0.007	-0.006±0.003	-0.047±0.008
120.5	2.0±0.3	0.0±0.1	0.01±0.01	-1.92±0.02	1.389±0.007	1.388±0.007	-0.001±0.003	-0.048±0.008
130.7	2.1±0.3	0.2±0.1	0.01±0.01	-1.91±0.02	1.387±0.007	1.387±0.007	0.004±0.003	-0.050±0.008
140.8	2.1±0.3	0.3±0.1	0.01±0.01	-1.91±0.02	1.385±0.007	1.384±0.007	0.007±0.003	-0.050±0.008

Table B.48 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.3±0.3	2.2±0.4	-0.74±0.01	-1.31±0.02	0.755±0.007	0.755±0.007	0.029±0.006	0.003±0.004
4.7	-0.2±0.3	1.3±0.4	-0.70±0.01	-1.30±0.02	0.773±0.007	0.772±0.007	0.017±0.006	0.003±0.004
5.7	0.0±0.3	0.8±0.4	-0.66±0.01	-1.29±0.02	0.792±0.007	0.792±0.007	0.012±0.006	0.000±0.004
6.7	0.1±0.3	0.8±0.4	-0.64±0.01	-1.30±0.02	0.813±0.007	0.813±0.007	0.012±0.005	-0.001±0.004
7.7	0.2±0.3	0.8±0.4	-0.62±0.01	-1.30±0.02	0.822±0.007	0.822±0.007	0.011±0.005	-0.004±0.005
8.7	0.2±0.3	0.6±0.4	-0.60±0.01	-1.31±0.02	0.838±0.007	0.838±0.007	0.009±0.005	-0.003±0.005
9.8	0.2±0.3	0.6±0.3	-0.58±0.01	-1.30±0.02	0.850±0.007	0.850±0.007	0.009±0.005	-0.004±0.005
10.8	0.2±0.3	0.6±0.3	-0.56±0.01	-1.30±0.02	0.857±0.007	0.857±0.007	0.009±0.005	-0.004±0.005
11.8	0.2±0.3	0.5±0.3	-0.55±0.01	-1.29±0.02	0.863±0.007	0.863±0.007	0.008±0.005	-0.003±0.005
12.8	0.2±0.3	0.6±0.3	-0.54±0.01	-1.31±0.02	0.878±0.006	0.878±0.006	0.009±0.005	-0.003±0.005
13.8	0.2±0.3	0.5±0.3	-0.52±0.01	-1.30±0.02	0.885±0.006	0.885±0.006	0.008±0.005	-0.003±0.005
16.4	0.1±0.3	0.6±0.3	-0.49±0.01	-1.29±0.02	0.898±0.006	0.898±0.006	0.009±0.005	-0.002±0.005
18.9	0.1±0.3	0.6±0.3	-0.46±0.01	-1.30±0.02	0.921±0.006	0.921±0.006	0.010±0.005	-0.002±0.005
21.4	0.1±0.3	0.5±0.3	-0.42±0.01	-1.30±0.02	0.937±0.006	0.937±0.006	0.009±0.005	-0.001±0.005
24.0	0.1±0.3	0.5±0.3	-0.39±0.01	-1.30±0.02	0.953±0.006	0.953±0.006	0.009±0.005	-0.001±0.005
26.5	0.1±0.3	0.6±0.3	-0.36±0.01	-1.29±0.02	0.964±0.006	0.964±0.006	0.009±0.005	-0.001±0.005
29.1	-0.1±0.3	0.5±0.3	-0.35±0.01	-1.30±0.02	0.977±0.006	0.977±0.006	0.009±0.005	0.001±0.005
31.6	0.0±0.3	0.6±0.3	-0.32±0.01	-1.29±0.02	0.985±0.006	0.985±0.006	0.010±0.004	0.000±0.005
34.1	-0.1±0.3	0.6±0.3	-0.30±0.01	-1.30±0.02	1.001±0.006	1.001±0.006	0.010±0.004	0.001±0.006
36.7	-0.1±0.3	0.6±0.2	-0.26±0.01	-1.29±0.02	1.016±0.007	1.016±0.007	0.011±0.004	0.001±0.006
39.2	-0.1±0.3	0.5±0.2	-0.25±0.01	-1.29±0.02	1.021±0.007	1.021±0.007	0.009±0.004	0.001±0.006
44.3	-0.1±0.3	0.6±0.2	-0.20±0.01	-1.30±0.02	1.048±0.007	1.048±0.007	0.010±0.004	0.001±0.006
49.4	-0.1±0.3	0.6±0.2	-0.16±0.01	-1.29±0.02	1.065±0.007	1.065±0.007	0.011±0.004	0.001±0.006
54.5	-0.1±0.3	0.6±0.2	-0.12±0.01	-1.29±0.02	1.081±0.007	1.081±0.007	0.011±0.004	0.002±0.006
59.5	-0.1±0.3	0.6±0.2	-0.08±0.01	-1.28±0.02	1.098±0.007	1.098±0.007	0.012±0.004	0.001±0.006
64.6	-0.1±0.3	0.6±0.2	-0.06±0.01	-1.29±0.02	1.113±0.007	1.113±0.007	0.012±0.004	0.001±0.006
69.7	-0.1±0.3	0.6±0.2	-0.03±0.01	-1.28±0.02	1.121±0.007	1.121±0.007	0.012±0.004	0.001±0.006
74.8	0.0±0.3	0.6±0.2	-0.01±0.01	-1.29±0.02	1.130±0.007	1.130±0.007	0.012±0.004	0.000±0.006
79.9	0.0±0.3	0.6±0.2	0.00±0.01	-1.29±0.02	1.134±0.007	1.134±0.007	0.013±0.004	0.000±0.006
84.9	0.0±0.3	0.6±0.2	0.01±0.01	-1.28±0.02	1.136±0.007	1.136±0.007	0.012±0.004	0.000±0.006
90.0	0.0±0.3	0.6±0.2	0.01±0.01	-1.28±0.02	1.136±0.007	1.136±0.007	0.012±0.004	0.000±0.006
100.2	0.1±0.3	0.5±0.2	0.01±0.01	-1.28±0.02	1.136±0.007	1.136±0.007	0.010±0.004	-0.001±0.006
110.3	0.1±0.3	0.4±0.2	0.01±0.01	-1.28±0.02	1.135±0.007	1.135±0.007	0.008±0.004	-0.001±0.006
120.5	0.1±0.3	0.4±0.2	0.01±0.01	-1.28±0.02	1.136±0.007	1.135±0.007	0.009±0.004	-0.002±0.006
130.7	0.1±0.3	0.4±0.2	0.01±0.01	-1.28±0.02	1.134±0.007	1.134±0.007	0.009±0.004	-0.003±0.006
140.8	0.1±0.3	0.4±0.2	0.01±0.01	-1.28±0.02	1.134±0.007	1.134±0.007	0.008±0.004	-0.003±0.006

Table B.49 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.5±0.3	2.5±0.4	-0.73±0.01	-1.33±0.02	0.771±0.007	0.770±0.007	0.033±0.006	0.007±0.004
4.7	-0.1±0.3	1.6±0.4	-0.69±0.01	-1.33±0.02	0.800±0.007	0.800±0.007	0.022±0.006	0.002±0.004
5.7	0.0±0.3	1.2±0.4	-0.66±0.01	-1.33±0.02	0.821±0.007	0.821±0.007	0.017±0.005	0.000±0.005
6.7	0.1±0.3	0.9±0.4	-0.63±0.01	-1.32±0.02	0.833±0.007	0.833±0.007	0.014±0.005	-0.002±0.005
7.7	0.2±0.3	0.8±0.4	-0.61±0.01	-1.33±0.02	0.850±0.007	0.850±0.007	0.012±0.005	-0.003±0.005
8.7	0.2±0.3	0.8±0.3	-0.58±0.01	-1.32±0.02	0.859±0.007	0.859±0.007	0.011±0.005	-0.003±0.005
9.8	0.2±0.3	0.7±0.3	-0.57±0.01	-1.33±0.02	0.872±0.007	0.872±0.007	0.010±0.005	-0.003±0.005
10.8	0.1±0.3	0.7±0.3	-0.55±0.01	-1.32±0.02	0.880±0.007	0.880±0.007	0.010±0.005	-0.002±0.005
11.8	0.1±0.3	0.7±0.3	-0.53±0.01	-1.33±0.02	0.891±0.006	0.891±0.006	0.010±0.005	-0.002±0.005
12.8	0.1±0.3	0.5±0.3	-0.52±0.01	-1.32±0.02	0.896±0.006	0.896±0.006	0.008±0.005	-0.001±0.005
13.8	0.1±0.3	0.5±0.3	-0.50±0.01	-1.32±0.02	0.906±0.006	0.906±0.006	0.008±0.005	-0.002±0.005
16.4	0.0±0.3	0.6±0.3	-0.47±0.01	-1.32±0.02	0.922±0.006	0.922±0.006	0.009±0.005	0.000±0.005
18.9	-0.1±0.3	0.5±0.3	-0.44±0.01	-1.32±0.02	0.941±0.006	0.940±0.006	0.008±0.005	0.002±0.005
21.4	-0.1±0.3	0.6±0.3	-0.40±0.01	-1.31±0.02	0.956±0.006	0.956±0.006	0.010±0.005	0.002±0.005
24.0	-0.2±0.3	0.5±0.3	-0.38±0.01	-1.32±0.02	0.969±0.006	0.969±0.006	0.008±0.005	0.003±0.005
26.5	-0.3±0.3	0.5±0.3	-0.36±0.01	-1.32±0.02	0.980±0.006	0.980±0.006	0.008±0.005	0.004±0.005
29.1	-0.3±0.3	0.6±0.3	-0.33±0.01	-1.32±0.02	0.993±0.006	0.993±0.006	0.010±0.004	0.005±0.005
31.6	-0.3±0.3	0.5±0.3	-0.30±0.01	-1.31±0.02	1.005±0.007	1.005±0.007	0.010±0.004	0.006±0.006
34.1	-0.3±0.3	0.5±0.2	-0.28±0.01	-1.32±0.02	1.018±0.007	1.018±0.007	0.010±0.004	0.006±0.006
36.7	-0.4±0.3	0.6±0.2	-0.26±0.01	-1.32±0.02	1.029±0.007	1.029±0.007	0.010±0.004	0.007±0.006
39.2	-0.4±0.3	0.6±0.2	-0.23±0.01	-1.31±0.02	1.037±0.007	1.037±0.007	0.011±0.004	0.007±0.006
44.3	-0.4±0.3	0.6±0.2	-0.18±0.01	-1.31±0.02	1.060±0.007	1.060±0.007	0.011±0.004	0.007±0.006
49.4	-0.4±0.3	0.6±0.2	-0.15±0.01	-1.31±0.02	1.077±0.007	1.077±0.007	0.012±0.004	0.008±0.006
54.5	-0.4±0.3	0.6±0.2	-0.11±0.01	-1.31±0.02	1.098±0.007	1.098±0.007	0.012±0.004	0.008±0.006
59.5	-0.4±0.3	0.6±0.2	-0.08±0.01	-1.31±0.02	1.112±0.007	1.112±0.007	0.012±0.004	0.008±0.006
64.6	-0.4±0.3	0.6±0.2	-0.05±0.01	-1.31±0.02	1.124±0.007	1.123±0.007	0.012±0.004	0.008±0.006
69.7	-0.4±0.3	0.6±0.2	-0.02±0.01	-1.31±0.02	1.134±0.007	1.134±0.007	0.012±0.004	0.008±0.006
74.8	-0.4±0.3	0.6±0.2	-0.01±0.01	-1.31±0.02	1.140±0.007	1.140±0.007	0.012±0.004	0.007±0.006
79.9	-0.4±0.3	0.6±0.2	0.00±0.01	-1.31±0.02	1.144±0.007	1.144±0.007	0.012±0.004	0.007±0.006
84.9	-0.4±0.3	0.6±0.2	0.01±0.01	-1.31±0.02	1.146±0.007	1.146±0.007	0.012±0.004	0.007±0.006
90.0	-0.4±0.3	0.6±0.2	0.01±0.01	-1.31±0.02	1.146±0.007	1.146±0.007	0.012±0.004	0.009±0.006
100.2	-0.3±0.3	0.5±0.2	0.01±0.01	-1.30±0.02	1.146±0.007	1.146±0.007	0.009±0.004	0.007±0.006
110.3	-0.3±0.3	0.4±0.2	0.01±0.01	-1.30±0.02	1.146±0.007	1.146±0.007	0.009±0.004	0.006±0.006
120.5	-0.2±0.3	0.4±0.2	0.01±0.01	-1.30±0.02	1.145±0.007	1.145±0.007	0.008±0.004	0.004±0.006
130.7	-0.1±0.3	0.4±0.2	0.01±0.01	-1.30±0.02	1.145±0.007	1.145±0.007	0.008±0.004	0.003±0.006
140.8	-0.2±0.3	0.4±0.2	0.01±0.01	-1.30±0.02	1.145±0.007	1.145±0.007	0.007±0.004	0.004±0.006

Table B.50 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.8±0.3	2.4±0.4	-0.72±0.01	-1.36±0.02	0.800±0.007	0.799±0.007	0.034±0.006	0.012±0.004
4.7	-0.4±0.3	1.5±0.4	-0.68±0.01	-1.36±0.02	0.825±0.007	0.825±0.007	0.022±0.005	0.006±0.005
5.7	-0.3±0.3	1.2±0.4	-0.65±0.01	-1.36±0.02	0.844±0.007	0.844±0.007	0.017±0.005	0.004±0.005
6.7	-0.2±0.3	1.1±0.3	-0.62±0.01	-1.36±0.02	0.857±0.007	0.857±0.007	0.017±0.005	0.003±0.005
7.7	-0.1±0.3	1.0±0.3	-0.59±0.01	-1.35±0.02	0.871±0.007	0.871±0.007	0.016±0.005	0.002±0.005
8.7	-0.1±0.3	0.9±0.3	-0.58±0.01	-1.35±0.02	0.880±0.007	0.880±0.007	0.013±0.005	0.002±0.005
9.8	-0.1±0.3	0.8±0.3	-0.56±0.01	-1.35±0.02	0.892±0.006	0.892±0.006	0.012±0.005	0.002±0.005
10.8	-0.2±0.3	0.8±0.3	-0.55±0.01	-1.35±0.02	0.898±0.006	0.897±0.006	0.012±0.005	0.003±0.005
11.8	-0.2±0.3	0.8±0.3	-0.53±0.01	-1.35±0.02	0.906±0.006	0.906±0.006	0.012±0.005	0.003±0.005
12.8	-0.3±0.3	0.7±0.3	-0.52±0.01	-1.36±0.02	0.915±0.006	0.915±0.006	0.011±0.005	0.004±0.005
13.8	-0.3±0.3	0.7±0.3	-0.50±0.01	-1.35±0.02	0.920±0.006	0.920±0.006	0.011±0.005	0.005±0.005
16.4	-0.4±0.3	0.7±0.3	-0.47±0.01	-1.35±0.02	0.937±0.006	0.937±0.006	0.012±0.005	0.006±0.005
18.9	-0.4±0.3	0.7±0.3	-0.44±0.01	-1.35±0.02	0.955±0.006	0.955±0.006	0.011±0.005	0.007±0.005
21.4	-0.5±0.3	0.7±0.3	-0.41±0.01	-1.35±0.02	0.969±0.006	0.969±0.006	0.011±0.005	0.008±0.005
24.0	-0.5±0.3	0.7±0.3	-0.38±0.01	-1.34±0.02	0.979±0.006	0.979±0.006	0.012±0.005	0.009±0.005
26.5	-0.5±0.3	0.7±0.3	-0.36±0.01	-1.35±0.02	0.997±0.007	0.997±0.007	0.012±0.004	0.009±0.006
29.1	-0.6±0.3	0.7±0.3	-0.33±0.01	-1.34±0.02	1.006±0.007	1.006±0.007	0.012±0.004	0.011±0.006
31.6	-0.6±0.3	0.7±0.2	-0.30±0.01	-1.34±0.02	1.021±0.007	1.021±0.007	0.012±0.004	0.011±0.006
34.1	-0.7±0.3	0.7±0.2	-0.28±0.01	-1.34±0.02	1.033±0.007	1.033±0.007	0.012±0.004	0.012±0.006
36.7	-0.7±0.3	0.7±0.2	-0.25±0.01	-1.33±0.02	1.042±0.007	1.042±0.007	0.012±0.004	0.013±0.006
39.2	-0.7±0.3	0.7±0.2	-0.24±0.01	-1.34±0.02	1.053±0.007	1.053±0.007	0.012±0.004	0.013±0.006
44.3	-0.8±0.3	0.7±0.2	-0.19±0.01	-1.33±0.02	1.070±0.007	1.069±0.007	0.013±0.004	0.014±0.006
49.4	-0.8±0.3	0.7±0.2	-0.15±0.01	-1.34±0.02	1.091±0.007	1.091±0.007	0.014±0.004	0.014±0.006
54.5	-0.8±0.3	0.7±0.2	-0.11±0.01	-1.33±0.02	1.109±0.007	1.108±0.007	0.013±0.004	0.016±0.006
59.5	-0.8±0.3	0.7±0.2	-0.08±0.01	-1.34±0.02	1.124±0.007	1.124±0.007	0.014±0.004	0.016±0.006
64.6	-0.9±0.3	0.7±0.2	-0.05±0.01	-1.34±0.02	1.135±0.007	1.135±0.007	0.013±0.004	0.017±0.006
69.7	-0.8±0.3	0.7±0.2	-0.02±0.01	-1.34±0.02	1.146±0.007	1.146±0.007	0.013±0.004	0.017±0.006
74.8	-0.9±0.3	0.6±0.2	-0.01±0.01	-1.34±0.02	1.153±0.007	1.153±0.007	0.012±0.004	0.018±0.006
79.9	-0.8±0.3	0.6±0.2	0.00±0.01	-1.34±0.02	1.157±0.007	1.157±0.007	0.013±0.004	0.017±0.006
84.9	-0.8±0.3	0.6±0.2	0.01±0.01	-1.33±0.02	1.158±0.007	1.158±0.007	0.013±0.004	0.017±0.006
90.0	-0.8±0.3	0.6±0.2	0.01±0.01	-1.33±0.02	1.158±0.007	1.158±0.007	0.012±0.004	0.017±0.006
100.2	-0.8±0.3	0.5±0.2	0.01±0.01	-1.33±0.02	1.158±0.007	1.158±0.007	0.011±0.004	0.015±0.006
110.3	-0.7±0.3	0.5±0.2	0.01±0.01	-1.33±0.02	1.158±0.007	1.158±0.007	0.011±0.004	0.014±0.006
120.5	-0.6±0.3	0.4±0.2	0.01±0.01	-1.33±0.02	1.158±0.007	1.158±0.007	0.009±0.004	0.013±0.006
130.7	-0.6±0.3	0.4±0.2	0.01±0.01	-1.33±0.02	1.157±0.007	1.157±0.007	0.008±0.004	0.013±0.006
140.8	-0.6±0.3	0.4±0.2	0.01±0.01	-1.33±0.02	1.156±0.007	1.156±0.007	0.008±0.004	0.013±0.006

Table B.51 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.1±0.3	3.0±0.4	-0.80±0.01	-1.39±0.02	0.765±0.007	0.764±0.007	0.041±0.006	0.015±0.004
4.7	-0.6±0.3	2.1±0.4	-0.76±0.01	-1.39±0.02	0.791±0.007	0.791±0.007	0.028±0.006	0.008±0.004
5.7	-0.4±0.3	1.9±0.4	-0.72±0.01	-1.38±0.02	0.809±0.007	0.808±0.007	0.027±0.006	0.005±0.004
6.7	-0.2±0.3	1.8±0.4	-0.70±0.01	-1.38±0.02	0.826±0.007	0.825±0.007	0.026±0.005	0.003±0.005
7.7	-0.2±0.3	1.8±0.4	-0.68±0.01	-1.38±0.02	0.835±0.007	0.835±0.007	0.026±0.005	0.003±0.005
8.7	-0.3±0.3	1.8±0.4	-0.67±0.01	-1.38±0.02	0.845±0.007	0.844±0.007	0.026±0.005	0.005±0.005
9.8	-0.5±0.3	1.7±0.4	-0.65±0.01	-1.37±0.02	0.852±0.007	0.852±0.007	0.025±0.005	0.007±0.005
10.8	-0.6±0.3	1.7±0.3	-0.63±0.01	-1.37±0.02	0.860±0.007	0.860±0.007	0.026±0.005	0.009±0.005
11.8	-0.7±0.3	1.7±0.3	-0.61±0.01	-1.37±0.02	0.874±0.007	0.873±0.007	0.025±0.005	0.011±0.005
12.8	-0.9±0.3	1.7±0.3	-0.59±0.01	-1.37±0.02	0.883±0.007	0.883±0.007	0.025±0.005	0.014±0.005
13.8	-1.0±0.3	1.6±0.3	-0.57±0.01	-1.37±0.02	0.895±0.007	0.894±0.007	0.025±0.005	0.015±0.005
16.4	-1.1±0.3	1.4±0.3	-0.53±0.01	-1.38±0.02	0.918±0.007	0.917±0.007	0.023±0.005	0.018±0.005
18.9	-1.3±0.3	1.4±0.3	-0.49±0.01	-1.37±0.02	0.937±0.006	0.937±0.006	0.022±0.005	0.021±0.005
21.4	-1.4±0.3	1.4±0.3	-0.45±0.01	-1.37±0.02	0.956±0.007	0.955±0.006	0.023±0.005	0.023±0.005
24.0	-1.4±0.3	1.3±0.3	-0.42±0.01	-1.36±0.02	0.974±0.007	0.974±0.007	0.022±0.005	0.024±0.005
26.5	-1.5±0.3	1.3±0.3	-0.39±0.01	-1.37±0.02	0.990±0.007	0.990±0.007	0.022±0.005	0.026±0.005
29.1	-1.5±0.3	1.2±0.3	-0.35±0.01	-1.35±0.02	1.000±0.007	1.000±0.007	0.021±0.004	0.026±0.006
31.6	-1.6±0.3	1.2±0.2	-0.34±0.01	-1.37±0.02	1.017±0.007	1.016±0.007	0.021±0.004	0.029±0.006
34.1	-1.7±0.3	1.1±0.2	-0.31±0.01	-1.37±0.02	1.029±0.007	1.028±0.007	0.021±0.004	0.030±0.006
36.7	-1.7±0.3	1.1±0.2	-0.27±0.01	-1.35±0.02	1.041±0.007	1.040±0.007	0.020±0.004	0.031±0.006
39.2	-1.7±0.3	1.1±0.2	-0.26±0.01	-1.36±0.02	1.050±0.007	1.050±0.007	0.020±0.004	0.031±0.006
44.3	-1.8±0.3	1.0±0.2	-0.21±0.01	-1.36±0.02	1.074±0.007	1.073±0.007	0.019±0.004	0.033±0.006
49.4	-1.8±0.3	1.0±0.2	-0.16±0.01	-1.34±0.02	1.088±0.007	1.088±0.007	0.019±0.004	0.034±0.006
54.5	-1.8±0.3	0.9±0.2	-0.12±0.01	-1.35±0.02	1.108±0.007	1.108±0.007	0.017±0.004	0.035±0.006
59.5	-1.8±0.3	0.9±0.2	-0.09±0.01	-1.36±0.02	1.126±0.007	1.125±0.007	0.017±0.004	0.036±0.006
64.6	-1.8±0.3	0.8±0.2	-0.06±0.01	-1.35±0.02	1.137±0.007	1.137±0.007	0.016±0.004	0.036±0.006
69.7	-1.9±0.3	0.8±0.2	-0.03±0.01	-1.35±0.02	1.149±0.007	1.148±0.007	0.016±0.004	0.037±0.006
74.8	-1.8±0.3	0.8±0.2	-0.02±0.01	-1.35±0.02	1.154±0.007	1.153±0.007	0.017±0.004	0.036±0.006
79.9	-1.8±0.3	0.8±0.2	0.00±0.01	-1.35±0.02	1.161±0.007	1.160±0.007	0.016±0.004	0.035±0.006
84.9	-1.8±0.3	0.8±0.2	0.00±0.01	-1.35±0.02	1.164±0.007	1.164±0.007	0.016±0.004	0.036±0.006
90.0	-1.8±0.3	0.8±0.2	0.01±0.01	-1.35±0.02	1.165±0.007	1.165±0.007	0.016±0.004	0.036±0.006
100.2	-1.7±0.3	0.6±0.2	0.01±0.01	-1.35±0.02	1.165±0.007	1.164±0.007	0.013±0.004	0.035±0.006
110.3	-1.6±0.3	0.6±0.2	0.01±0.01	-1.35±0.02	1.165±0.007	1.164±0.007	0.013±0.004	0.033±0.006
120.5	-1.6±0.3	0.6±0.2	0.01±0.01	-1.35±0.02	1.164±0.007	1.164±0.007	0.012±0.004	0.033±0.006
130.7	-1.6±0.3	0.4±0.2	0.01±0.01	-1.35±0.02	1.164±0.007	1.163±0.007	0.009±0.004	0.033±0.006
140.8	-1.6±0.3	0.4±0.2	0.01±0.01	-1.34±0.02	1.162±0.007	1.162±0.007	0.008±0.004	0.032±0.006

Table B.52 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-114 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.2±0.3	3.1±0.4	-0.78±0.01	-1.41±0.02	0.797±0.007	0.796±0.007	0.043±0.006	-0.002±0.004
4.7	0.6±0.3	1.9±0.4	-0.74±0.01	-1.41±0.02	0.823±0.007	0.822±0.007	0.028±0.005	-0.008±0.005
5.7	0.8±0.3	1.6±0.4	-0.70±0.01	-1.41±0.02	0.840±0.007	0.840±0.007	0.023±0.005	-0.011±0.005
6.7	0.7±0.3	1.5±0.3	-0.68±0.01	-1.41±0.02	0.856±0.007	0.856±0.007	0.022±0.005	-0.010±0.005
7.7	0.6±0.3	1.4±0.3	-0.66±0.01	-1.40±0.02	0.864±0.007	0.863±0.007	0.022±0.005	-0.008±0.005
8.7	0.3±0.3	1.5±0.3	-0.65±0.01	-1.41±0.02	0.875±0.007	0.874±0.007	0.023±0.005	-0.004±0.005
9.8	0.1±0.3	1.4±0.3	-0.63±0.01	-1.40±0.02	0.879±0.007	0.879±0.007	0.022±0.005	-0.001±0.005
10.8	-0.3±0.3	1.5±0.3	-0.63±0.01	-1.41±0.02	0.887±0.007	0.887±0.007	0.023±0.005	0.005±0.005
11.8	-0.6±0.3	1.5±0.3	-0.61±0.01	-1.41±0.02	0.896±0.006	0.896±0.006	0.023±0.005	0.009±0.005
12.8	-0.8±0.3	1.6±0.3	-0.59±0.01	-1.40±0.02	0.903±0.006	0.903±0.006	0.025±0.005	0.013±0.005
13.8	-1.0±0.3	1.6±0.3	-0.58±0.01	-1.42±0.02	0.913±0.006	0.912±0.006	0.025±0.005	0.015±0.005
16.4	-1.4±0.3	1.6±0.3	-0.53±0.01	-1.40±0.02	0.931±0.006	0.931±0.006	0.025±0.005	0.023±0.005
18.9	-1.6±0.3	1.6±0.3	-0.50±0.01	-1.40±0.02	0.952±0.006	0.951±0.006	0.026±0.005	0.027±0.005
21.4	-1.7±0.3	1.5±0.3	-0.46±0.01	-1.41±0.02	0.973±0.006	0.972±0.006	0.025±0.005	0.030±0.005
24.0	-1.9±0.3	1.4±0.3	-0.43±0.01	-1.41±0.02	0.992±0.006	0.991±0.006	0.025±0.004	0.033±0.005
26.5	-1.9±0.3	1.4±0.3	-0.40±0.01	-1.40±0.02	1.003±0.007	1.002±0.007	0.025±0.004	0.034±0.006
29.1	-2.0±0.3	1.4±0.2	-0.37±0.01	-1.40±0.02	1.014±0.007	1.013±0.007	0.025±0.004	0.035±0.006
31.6	-2.0±0.3	1.4±0.2	-0.34±0.01	-1.41±0.02	1.032±0.007	1.031±0.007	0.025±0.004	0.037±0.006
34.1	-2.1±0.3	1.4±0.2	-0.31±0.01	-1.39±0.02	1.037±0.007	1.036±0.007	0.025±0.004	0.038±0.006
36.7	-2.1±0.3	1.3±0.2	-0.29±0.01	-1.40±0.02	1.053±0.007	1.052±0.007	0.024±0.004	0.039±0.006
39.2	-2.1±0.3	1.2±0.2	-0.27±0.01	-1.40±0.02	1.064±0.007	1.063±0.007	0.023±0.004	0.039±0.006
44.3	-2.1±0.3	1.2±0.2	-0.22±0.01	-1.40±0.02	1.087±0.007	1.086±0.007	0.023±0.004	0.041±0.006
49.4	-2.1±0.3	1.1±0.2	-0.17±0.01	-1.39±0.02	1.104±0.007	1.103±0.007	0.020±0.004	0.041±0.006
54.5	-2.1±0.3	1.0±0.2	-0.14±0.01	-1.39±0.02	1.121±0.007	1.120±0.007	0.020±0.004	0.042±0.006
59.5	-2.1±0.3	1.0±0.2	-0.09±0.01	-1.39±0.02	1.138±0.007	1.137±0.007	0.019±0.004	0.043±0.006
64.6	-2.1±0.3	0.9±0.2	-0.07±0.01	-1.39±0.02	1.152±0.007	1.151±0.007	0.018±0.004	0.043±0.006
69.7	-2.1±0.3	0.8±0.2	-0.04±0.01	-1.39±0.02	1.164±0.007	1.163±0.007	0.016±0.004	0.043±0.006
74.8	-2.1±0.3	0.8±0.2	-0.02±0.01	-1.39±0.02	1.172±0.007	1.172±0.007	0.016±0.004	0.043±0.006
79.9	-2.1±0.3	0.8±0.2	0.00±0.01	-1.39±0.02	1.177±0.007	1.176±0.007	0.016±0.004	0.043±0.006
84.9	-2.0±0.3	0.8±0.2	0.00±0.01	-1.39±0.02	1.181±0.007	1.181±0.007	0.016±0.004	0.041±0.007
90.0	-2.0±0.3	0.7±0.2	0.01±0.01	-1.39±0.02	1.183±0.007	1.182±0.007	0.015±0.004	0.041±0.007
100.2	-2.0±0.3	0.6±0.2	0.01±0.01	-1.39±0.02	1.183±0.007	1.182±0.007	0.013±0.004	0.041±0.007
110.3	-1.8±0.3	0.5±0.2	0.01±0.01	-1.39±0.02	1.183±0.007	1.183±0.007	0.010±0.004	0.038±0.007
120.5	-1.9±0.3	0.5±0.2	0.01±0.01	-1.39±0.02	1.182±0.007	1.181±0.007	0.010±0.004	0.038±0.007
130.7	-1.9±0.3	0.4±0.2	0.01±0.01	-1.39±0.02	1.181±0.007	1.180±0.007	0.008±0.004	0.038±0.007
140.8	-1.8±0.3	0.4±0.2	0.01±0.01	-1.38±0.02	1.180±0.007	1.180±0.007	0.008±0.004	0.037±0.007

Table B.53 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-108 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.1±0.3	2.8±0.4	-0.78±0.01	-1.42±0.02	0.802±0.007	0.801±0.007	0.039±0.006	-0.002±0.004
4.7	0.6±0.3	1.9±0.4	-0.74±0.01	-1.43±0.02	0.829±0.007	0.829±0.007	0.028±0.005	-0.009±0.005
5.7	0.9±0.3	1.6±0.4	-0.71±0.01	-1.42±0.02	0.848±0.007	0.847±0.007	0.023±0.005	-0.013±0.005
6.7	0.8±0.3	1.5±0.3	-0.68±0.01	-1.43±0.02	0.865±0.007	0.864±0.007	0.023±0.005	-0.013±0.005
7.7	0.5±0.3	1.6±0.3	-0.67±0.01	-1.44±0.02	0.874±0.007	0.874±0.007	0.024±0.005	-0.008±0.005
8.7	0.2±0.3	1.7±0.3	-0.65±0.01	-1.42±0.02	0.877±0.007	0.877±0.007	0.026±0.005	-0.003±0.005
9.8	-0.1±0.3	1.7±0.3	-0.64±0.01	-1.42±0.02	0.887±0.006	0.886±0.006	0.027±0.005	0.001±0.005
10.8	-0.5±0.3	1.7±0.3	-0.62±0.01	-1.42±0.02	0.894±0.006	0.894±0.006	0.027±0.005	0.007±0.005
11.8	-0.8±0.3	1.7±0.3	-0.61±0.01	-1.43±0.02	0.903±0.006	0.902±0.006	0.027±0.005	0.012±0.005
12.8	-1.1±0.3	1.7±0.3	-0.59±0.01	-1.42±0.02	0.913±0.006	0.912±0.006	0.027±0.005	0.017±0.005
13.8	-1.3±0.3	1.7±0.3	-0.58±0.01	-1.42±0.02	0.917±0.006	0.917±0.006	0.028±0.005	0.021±0.005
16.4	-1.7±0.3	1.6±0.3	-0.54±0.01	-1.42±0.02	0.939±0.006	0.938±0.006	0.027±0.005	0.028±0.005
18.9	-2.1±0.3	1.6±0.3	-0.49±0.01	-1.41±0.02	0.958±0.006	0.957±0.006	0.027±0.005	0.035±0.005
21.4	-2.2±0.3	1.7±0.3	-0.46±0.01	-1.41±0.02	0.976±0.006	0.975±0.006	0.028±0.005	0.038±0.005
24.0	-2.4±0.3	1.6±0.3	-0.43±0.01	-1.42±0.02	0.994±0.006	0.992±0.006	0.028±0.004	0.041±0.005
26.5	-2.4±0.3	1.5±0.2	-0.39±0.01	-1.41±0.02	1.011±0.007	1.010±0.007	0.027±0.004	0.043±0.006
29.1	-2.4±0.3	1.5±0.2	-0.37±0.01	-1.42±0.02	1.023±0.007	1.022±0.007	0.026±0.004	0.044±0.006
31.6	-2.5±0.3	1.4±0.2	-0.34±0.01	-1.41±0.02	1.032±0.007	1.031±0.007	0.025±0.004	0.045±0.006
34.1	-2.5±0.3	1.4±0.2	-0.32±0.01	-1.41±0.02	1.046±0.007	1.044±0.007	0.026±0.004	0.046±0.006
36.7	-2.6±0.3	1.3±0.2	-0.29±0.01	-1.42±0.02	1.061±0.007	1.060±0.007	0.024±0.004	0.048±0.006
39.2	-2.6±0.3	1.3±0.2	-0.26±0.01	-1.40±0.02	1.068±0.007	1.066±0.007	0.024±0.004	0.048±0.006
44.3	-2.6±0.3	1.2±0.2	-0.22±0.01	-1.40±0.02	1.089±0.007	1.087±0.007	0.023±0.004	0.049±0.006
49.4	-2.6±0.3	1.1±0.2	-0.17±0.01	-1.40±0.02	1.108±0.007	1.107±0.007	0.021±0.004	0.049±0.006
54.5	-2.6±0.3	1.0±0.2	-0.14±0.01	-1.41±0.02	1.127±0.007	1.126±0.007	0.020±0.004	0.050±0.006
59.5	-2.6±0.3	1.0±0.2	-0.10±0.01	-1.41±0.02	1.143±0.007	1.142±0.007	0.020±0.004	0.052±0.006
64.6	-2.6±0.3	0.9±0.2	-0.07±0.01	-1.40±0.02	1.156±0.007	1.154±0.007	0.019±0.004	0.052±0.006
69.7	-2.5±0.3	0.8±0.2	-0.04±0.01	-1.41±0.02	1.169±0.007	1.168±0.007	0.017±0.004	0.051±0.006
74.8	-2.5±0.3	0.8±0.2	-0.02±0.01	-1.40±0.02	1.176±0.007	1.175±0.007	0.016±0.004	0.051±0.006
79.9	-2.4±0.3	0.8±0.2	-0.01±0.01	-1.40±0.02	1.183±0.007	1.181±0.007	0.016±0.004	0.051±0.007
84.9	-2.4±0.3	0.8±0.2	0.00±0.01	-1.40±0.02	1.186±0.007	1.185±0.007	0.016±0.004	0.049±0.007
90.0	-2.4±0.3	0.6±0.2	0.01±0.01	-1.40±0.02	1.187±0.007	1.186±0.007	0.013±0.004	0.049±0.007
100.2	-2.3±0.3	0.6±0.2	0.01±0.01	-1.40±0.02	1.188±0.007	1.187±0.007	0.012±0.004	0.048±0.007
110.3	-2.2±0.3	0.5±0.2	0.01±0.01	-1.40±0.02	1.187±0.007	1.186±0.007	0.009±0.004	0.046±0.007
120.5	-2.2±0.3	0.4±0.2	0.01±0.01	-1.40±0.02	1.187±0.007	1.186±0.007	0.008±0.004	0.046±0.007
130.7	-2.2±0.3	0.4±0.2	0.01±0.01	-1.40±0.02	1.185±0.007	1.184±0.007	0.008±0.004	0.046±0.007
140.8	-2.2±0.3	0.4±0.2	0.01±0.01	-1.39±0.02	1.184±0.007	1.183±0.007	0.008±0.004	0.045±0.007

Table B.54 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.8±0.3	2.7±0.4	-0.79±0.01	-1.44±0.02	0.807±0.007	0.806±0.007	0.039±0.006	-0.011±0.004
4.7	1.3±0.3	2.1±0.4	-0.74±0.01	-1.44±0.02	0.833±0.007	0.833±0.007	0.030±0.005	-0.019±0.005
5.7	1.5±0.3	1.8±0.4	-0.72±0.01	-1.44±0.02	0.852±0.007	0.851±0.007	0.027±0.005	-0.022±0.005
6.7	1.2±0.3	1.8±0.3	-0.70±0.01	-1.44±0.02	0.862±0.007	0.862±0.007	0.028±0.005	-0.019±0.005
7.7	0.9±0.3	1.8±0.3	-0.68±0.01	-1.44±0.02	0.872±0.007	0.871±0.007	0.028±0.005	-0.013±0.005
8.7	0.4±0.3	2.0±0.3	-0.66±0.01	-1.44±0.02	0.882±0.006	0.882±0.006	0.030±0.005	-0.007±0.005
9.8	0.0±0.3	2.0±0.3	-0.65±0.01	-1.44±0.02	0.885±0.006	0.884±0.006	0.031±0.005	0.000±0.005
10.8	-0.4±0.3	2.0±0.3	-0.64±0.01	-1.44±0.02	0.895±0.006	0.894±0.006	0.031±0.005	0.007±0.005
11.8	-0.8±0.3	2.0±0.3	-0.62±0.01	-1.43±0.02	0.903±0.006	0.903±0.006	0.031±0.005	0.013±0.005
12.8	-1.2±0.3	2.0±0.3	-0.60±0.01	-1.43±0.02	0.910±0.006	0.909±0.006	0.032±0.005	0.020±0.005
13.8	-1.5±0.3	1.9±0.3	-0.58±0.01	-1.43±0.02	0.920±0.006	0.919±0.006	0.031±0.005	0.025±0.005
16.4	-2.1±0.3	1.9±0.3	-0.54±0.01	-1.42±0.02	0.940±0.006	0.939±0.006	0.031±0.005	0.034±0.005
18.9	-2.4±0.3	1.8±0.3	-0.50±0.01	-1.43±0.02	0.963±0.006	0.962±0.006	0.030±0.005	0.040±0.005
21.4	-2.5±0.3	1.7±0.3	-0.46±0.01	-1.43±0.02	0.983±0.006	0.981±0.006	0.030±0.005	0.044±0.005
24.0	-2.7±0.3	1.7±0.3	-0.43±0.01	-1.42±0.02	0.998±0.006	0.996±0.006	0.029±0.004	0.047±0.006
26.5	-2.8±0.3	1.6±0.2	-0.39±0.01	-1.41±0.02	1.010±0.007	1.008±0.007	0.028±0.004	0.049±0.006
29.1	-2.8±0.3	1.6±0.2	-0.37±0.01	-1.41±0.02	1.023±0.007	1.021±0.007	0.029±0.004	0.051±0.006
31.6	-2.8±0.3	1.5±0.2	-0.35±0.01	-1.43±0.02	1.038±0.007	1.037±0.007	0.026±0.004	0.051±0.006
34.1	-2.8±0.3	1.4±0.2	-0.32±0.01	-1.43±0.02	1.051±0.007	1.050±0.007	0.026±0.004	0.052±0.006
36.7	-2.9±0.3	1.3±0.2	-0.29±0.01	-1.41±0.02	1.061±0.007	1.060±0.007	0.025±0.004	0.053±0.006
39.2	-2.9±0.3	1.3±0.2	-0.26±0.01	-1.42±0.02	1.075±0.007	1.073±0.007	0.025±0.004	0.054±0.006
44.3	-2.9±0.3	1.2±0.2	-0.22±0.01	-1.42±0.02	1.094±0.007	1.093±0.007	0.023±0.004	0.055±0.006
49.4	-2.9±0.3	1.1±0.2	-0.18±0.01	-1.42±0.02	1.115±0.007	1.114±0.007	0.021±0.004	0.056±0.006
54.5	-2.8±0.3	1.0±0.2	-0.14±0.01	-1.42±0.02	1.131±0.007	1.129±0.007	0.020±0.004	0.056±0.006
59.5	-2.8±0.3	1.0±0.2	-0.10±0.01	-1.42±0.02	1.146±0.007	1.145±0.007	0.020±0.004	0.057±0.006
64.6	-2.8±0.3	0.9±0.2	-0.07±0.01	-1.42±0.02	1.161±0.007	1.160±0.007	0.019±0.004	0.057±0.006
69.7	-2.8±0.3	0.8±0.2	-0.04±0.01	-1.42±0.02	1.172±0.007	1.170±0.007	0.016±0.004	0.056±0.006
74.8	-2.7±0.3	0.8±0.2	-0.02±0.01	-1.42±0.02	1.183±0.007	1.181±0.007	0.016±0.004	0.056±0.007
79.9	-2.7±0.3	0.8±0.2	-0.01±0.01	-1.42±0.02	1.188±0.007	1.186±0.007	0.016±0.004	0.055±0.007
84.9	-2.6±0.3	0.6±0.2	0.00±0.01	-1.42±0.02	1.191±0.007	1.190±0.007	0.013±0.004	0.054±0.007
90.0	-2.6±0.3	0.6±0.2	0.01±0.01	-1.42±0.02	1.193±0.007	1.192±0.007	0.013±0.004	0.054±0.007
100.2	-2.5±0.3	0.6±0.2	0.01±0.01	-1.42±0.02	1.193±0.007	1.192±0.007	0.012±0.004	0.052±0.007
110.3	-2.5±0.3	0.4±0.2	0.01±0.01	-1.41±0.02	1.192±0.007	1.191±0.007	0.009±0.004	0.052±0.007
120.5	-2.4±0.3	0.3±0.2	0.01±0.01	-1.41±0.02	1.193±0.007	1.192±0.007	0.007±0.004	0.051±0.007
130.7	-2.4±0.3	0.3±0.2	0.01±0.01	-1.41±0.02	1.191±0.007	1.190±0.007	0.005±0.004	0.049±0.007
140.8	-2.3±0.3	0.2±0.2	0.01±0.01	-1.41±0.02	1.190±0.007	1.189±0.007	0.004±0.004	0.048±0.007

Table B.55 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-95 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	1.4±0.3	3.5±0.4	-0.78±0.01	-1.43±0.02	0.807±0.007	0.805±0.007	0.049±0.006	-0.019±0.004
4.7	1.8±0.3	2.6±0.4	-0.74±0.01	-1.44±0.02	0.834±0.007	0.832±0.007	0.037±0.005	-0.026±0.005
5.7	2.0±0.3	2.3±0.4	-0.71±0.01	-1.43±0.02	0.849±0.007	0.848±0.007	0.035±0.005	-0.029±0.005
6.7	1.8±0.3	2.4±0.3	-0.69±0.01	-1.43±0.02	0.862±0.007	0.861±0.007	0.036±0.005	-0.027±0.005
7.7	1.4±0.3	2.3±0.3	-0.67±0.01	-1.42±0.02	0.867±0.007	0.866±0.007	0.035±0.005	-0.021±0.005
8.7	0.8±0.3	2.4±0.3	-0.66±0.01	-1.43±0.02	0.875±0.007	0.874±0.007	0.036±0.005	-0.013±0.005
9.8	0.2±0.3	2.3±0.3	-0.65±0.01	-1.43±0.02	0.884±0.007	0.883±0.007	0.035±0.005	-0.004±0.005
10.8	-0.3±0.3	2.4±0.3	-0.63±0.01	-1.42±0.02	0.886±0.007	0.886±0.007	0.037±0.005	0.004±0.005
11.8	-0.7±0.3	2.3±0.3	-0.62±0.01	-1.43±0.02	0.897±0.006	0.896±0.006	0.036±0.005	0.012±0.005
12.8	-1.3±0.3	2.3±0.3	-0.60±0.01	-1.42±0.02	0.907±0.006	0.906±0.006	0.036±0.005	0.020±0.005
13.8	-1.6±0.3	2.2±0.3	-0.59±0.01	-1.42±0.02	0.915±0.006	0.914±0.006	0.035±0.005	0.026±0.005
16.4	-2.3±0.3	2.1±0.3	-0.54±0.01	-1.42±0.02	0.936±0.006	0.935±0.006	0.035±0.005	0.038±0.005
18.9	-2.7±0.3	1.9±0.3	-0.50±0.01	-1.42±0.02	0.964±0.006	0.962±0.006	0.033±0.005	0.045±0.005
21.4	-2.8±0.3	1.8±0.3	-0.46±0.01	-1.41±0.02	0.979±0.006	0.977±0.006	0.031±0.005	0.048±0.005
24.0	-3.0±0.3	1.8±0.3	-0.41±0.01	-1.40±0.02	0.996±0.007	0.994±0.006	0.030±0.004	0.052±0.005
26.5	-3.0±0.3	1.7±0.3	-0.39±0.01	-1.41±0.02	1.007±0.007	1.006±0.007	0.029±0.004	0.053±0.006
29.1	-3.0±0.3	1.6±0.2	-0.36±0.01	-1.41±0.02	1.023±0.007	1.021±0.007	0.029±0.004	0.054±0.006
31.6	-3.1±0.3	1.4±0.2	-0.33±0.01	-1.42±0.02	1.040±0.007	1.038±0.007	0.026±0.004	0.055±0.006
34.1	-3.1±0.3	1.4±0.2	-0.32±0.01	-1.41±0.02	1.046±0.007	1.044±0.007	0.025±0.004	0.056±0.006
36.7	-3.1±0.3	1.3±0.2	-0.28±0.01	-1.41±0.02	1.062±0.007	1.060±0.007	0.024±0.004	0.057±0.006
39.2	-3.1±0.3	1.3±0.2	-0.25±0.01	-1.40±0.02	1.073±0.007	1.071±0.007	0.024±0.004	0.058±0.006
44.3	-3.1±0.3	1.1±0.2	-0.22±0.01	-1.41±0.02	1.093±0.007	1.091±0.007	0.021±0.004	0.058±0.006
49.4	-3.0±0.3	1.0±0.2	-0.17±0.01	-1.40±0.02	1.111±0.007	1.109±0.007	0.020±0.004	0.059±0.006
54.5	-3.0±0.3	1.0±0.2	-0.13±0.01	-1.41±0.02	1.128±0.007	1.127±0.007	0.020±0.004	0.059±0.006
59.5	-2.9±0.3	0.9±0.2	-0.10±0.01	-1.41±0.02	1.145±0.007	1.143±0.007	0.018±0.004	0.058±0.006
64.6	-2.9±0.3	0.8±0.2	-0.06±0.01	-1.40±0.02	1.158±0.007	1.156±0.007	0.017±0.004	0.059±0.006
69.7	-2.9±0.3	0.8±0.2	-0.04±0.01	-1.41±0.02	1.169±0.007	1.168±0.007	0.016±0.004	0.059±0.006
74.8	-2.8±0.3	0.8±0.2	-0.02±0.01	-1.40±0.02	1.177±0.007	1.175±0.007	0.015±0.004	0.057±0.006
79.9	-2.8±0.3	0.7±0.2	-0.01±0.01	-1.40±0.02	1.182±0.007	1.181±0.007	0.014±0.004	0.057±0.007
84.9	-2.7±0.3	0.6±0.2	0.00±0.01	-1.41±0.02	1.187±0.007	1.186±0.007	0.012±0.004	0.056±0.007
90.0	-2.7±0.3	0.6±0.2	0.01±0.01	-1.40±0.02	1.188±0.007	1.186±0.007	0.013±0.004	0.056±0.007
100.2	-2.6±0.3	0.4±0.2	0.01±0.01	-1.41±0.02	1.189±0.007	1.188±0.007	0.009±0.004	0.054±0.007
110.3	-2.6±0.3	0.4±0.2	0.01±0.01	-1.40±0.02	1.188±0.007	1.187±0.007	0.009±0.004	0.053±0.007
120.5	-2.6±0.3	0.3±0.2	0.01±0.01	-1.40±0.02	1.187±0.007	1.186±0.007	0.006±0.004	0.053±0.007
130.7	-2.4±0.3	0.2±0.2	0.01±0.01	-1.40±0.02	1.187±0.007	1.186±0.007	0.005±0.004	0.050±0.007
140.8	-2.4±0.3	0.2±0.2	0.01±0.01	-1.40±0.02	1.185±0.007	1.184±0.007	0.004±0.004	0.049±0.007

Table B.56 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.4±0.3	3.4±0.4	-0.77±0.01	-1.45±0.02	0.827±0.007	0.825±0.007	0.049±0.005	-0.034±0.005
4.7	2.5±0.3	2.9±0.4	-0.74±0.01	-1.46±0.02	0.851±0.007	0.850±0.007	0.043±0.005	-0.037±0.005
5.7	2.4±0.3	2.8±0.3	-0.71±0.01	-1.46±0.02	0.865±0.006	0.863±0.007	0.042±0.005	-0.037±0.005
6.7	2.1±0.3	2.9±0.3	-0.70±0.01	-1.46±0.02	0.869±0.006	0.868±0.006	0.043±0.005	-0.032±0.005
7.7	1.5±0.3	3.0±0.3	-0.69±0.01	-1.45±0.02	0.876±0.006	0.874±0.006	0.046±0.005	-0.023±0.005
8.7	0.9±0.3	3.0±0.3	-0.68±0.01	-1.46±0.02	0.886±0.006	0.884±0.006	0.046±0.005	-0.013±0.005
9.8	0.1±0.3	2.8±0.3	-0.67±0.01	-1.46±0.02	0.890±0.006	0.889±0.006	0.044±0.005	-0.002±0.005
10.8	-0.6±0.3	2.8±0.3	-0.66±0.01	-1.46±0.02	0.896±0.006	0.895±0.006	0.044±0.005	0.010±0.005
11.8	-1.3±0.3	2.8±0.3	-0.64±0.01	-1.46±0.02	0.904±0.006	0.903±0.006	0.044±0.005	0.020±0.005
12.8	-1.8±0.3	2.5±0.3	-0.62±0.01	-1.46±0.02	0.914±0.006	0.912±0.006	0.040±0.005	0.029±0.005
13.8	-2.3±0.3	2.5±0.3	-0.60±0.01	-1.45±0.02	0.923±0.006	0.921±0.006	0.041±0.005	0.038±0.005
16.4	-3.0±0.3	2.2±0.3	-0.56±0.01	-1.45±0.02	0.946±0.006	0.944±0.006	0.037±0.005	0.050±0.005
18.9	-3.4±0.3	2.0±0.3	-0.50±0.01	-1.45±0.02	0.974±0.006	0.971±0.006	0.034±0.005	0.058±0.005
21.4	-3.6±0.3	1.9±0.3	-0.46±0.01	-1.44±0.02	0.990±0.006	0.988±0.006	0.033±0.004	0.062±0.005
24.0	-3.6±0.3	1.7±0.2	-0.42±0.01	-1.44±0.02	1.011±0.006	1.008±0.006	0.030±0.004	0.064±0.006
26.5	-3.6±0.3	1.6±0.2	-0.39±0.01	-1.44±0.02	1.026±0.007	1.024±0.007	0.029±0.004	0.064±0.006
29.1	-3.6±0.3	1.5±0.2	-0.35±0.01	-1.43±0.02	1.039±0.007	1.037±0.007	0.028±0.004	0.065±0.006
31.6	-3.5±0.3	1.3±0.2	-0.33±0.01	-1.44±0.02	1.052±0.007	1.049±0.007	0.025±0.004	0.065±0.006
34.1	-3.6±0.3	1.3±0.2	-0.31±0.01	-1.43±0.02	1.059±0.007	1.057±0.007	0.024±0.004	0.066±0.006
36.7	-3.5±0.3	1.3±0.2	-0.29±0.01	-1.45±0.02	1.076±0.007	1.074±0.007	0.024±0.004	0.066±0.006
39.2	-3.5±0.3	1.2±0.2	-0.26±0.01	-1.44±0.02	1.088±0.007	1.086±0.007	0.023±0.004	0.066±0.006
44.3	-3.4±0.3	1.1±0.2	-0.21±0.01	-1.44±0.02	1.107±0.007	1.104±0.007	0.022±0.004	0.066±0.006
49.4	-3.4±0.3	1.0±0.2	-0.17±0.01	-1.44±0.02	1.124±0.007	1.122±0.007	0.020±0.004	0.067±0.006
54.5	-3.4±0.3	1.0±0.2	-0.13±0.01	-1.44±0.02	1.144±0.007	1.142±0.007	0.019±0.004	0.068±0.006
59.5	-3.3±0.3	0.9±0.2	-0.10±0.01	-1.44±0.02	1.159±0.007	1.157±0.007	0.018±0.004	0.067±0.006
64.6	-3.3±0.3	0.8±0.2	-0.06±0.01	-1.44±0.02	1.172±0.007	1.170±0.007	0.016±0.004	0.066±0.006
69.7	-3.3±0.3	0.8±0.2	-0.04±0.01	-1.43±0.02	1.182±0.007	1.180±0.007	0.016±0.004	0.067±0.007
74.8	-3.2±0.3	0.7±0.2	-0.02±0.01	-1.44±0.02	1.192±0.007	1.190±0.007	0.015±0.004	0.067±0.007
79.9	-3.1±0.3	0.6±0.2	-0.01±0.01	-1.44±0.02	1.196±0.007	1.194±0.007	0.013±0.004	0.066±0.007
84.9	-3.1±0.3	0.6±0.2	0.00±0.01	-1.44±0.02	1.200±0.007	1.198±0.007	0.013±0.004	0.064±0.007
90.0	-3.0±0.3	0.6±0.2	0.01±0.01	-1.44±0.02	1.202±0.007	1.200±0.007	0.012±0.004	0.062±0.007
100.2	-2.9±0.3	0.4±0.2	0.01±0.01	-1.44±0.02	1.202±0.007	1.201±0.007	0.009±0.004	0.061±0.007
110.3	-2.9±0.3	0.4±0.2	0.01±0.01	-1.44±0.02	1.202±0.007	1.200±0.007	0.008±0.004	0.061±0.007
120.5	-2.9±0.3	0.4±0.2	0.01±0.01	-1.43±0.02	1.201±0.007	1.199±0.007	0.008±0.004	0.060±0.007
130.7	-2.8±0.3	0.2±0.2	0.01±0.01	-1.43±0.02	1.200±0.007	1.199±0.007	0.004±0.004	0.058±0.007
140.8	-2.7±0.3	0.2±0.2	0.01±0.01	-1.43±0.02	1.198±0.007	1.196±0.007	0.004±0.004	0.056±0.007

Table B.57 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-83 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.1±0.3	4.0±0.4	-0.74±0.01	-1.46±0.02	0.849±0.007	0.845±0.007	0.059±0.005	-0.061±0.005
4.7	4.0±0.3	3.3±0.3	-0.71±0.01	-1.46±0.02	0.867±0.007	0.864±0.007	0.049±0.005	-0.061±0.005
5.7	3.5±0.3	3.2±0.3	-0.71±0.01	-1.47±0.02	0.873±0.007	0.870±0.007	0.048±0.005	-0.053±0.005
6.7	2.8±0.3	3.3±0.3	-0.70±0.01	-1.47±0.02	0.881±0.006	0.878±0.007	0.050±0.005	-0.043±0.005
7.7	1.8±0.3	3.2±0.3	-0.69±0.01	-1.47±0.02	0.878±0.007	0.877±0.007	0.049±0.005	-0.028±0.005
8.7	0.8±0.3	3.2±0.3	-0.69±0.01	-1.47±0.02	0.883±0.006	0.881±0.007	0.050±0.005	-0.013±0.005
9.8	-0.3±0.3	2.9±0.3	-0.68±0.01	-1.46±0.02	0.889±0.006	0.887±0.007	0.045±0.005	0.004±0.005
10.8	-1.3±0.3	2.7±0.3	-0.67±0.01	-1.47±0.02	0.894±0.006	0.893±0.006	0.043±0.005	0.020±0.005
11.8	-2.1±0.3	2.6±0.3	-0.66±0.01	-1.47±0.02	0.901±0.006	0.899±0.006	0.041±0.005	0.032±0.005
12.8	-2.7±0.3	2.4±0.3	-0.63±0.01	-1.46±0.02	0.908±0.006	0.906±0.006	0.038±0.005	0.043±0.005
13.8	-3.2±0.3	2.2±0.3	-0.62±0.01	-1.47±0.02	0.923±0.006	0.921±0.006	0.035±0.005	0.051±0.005
16.4	-3.9±0.3	1.9±0.3	-0.55±0.01	-1.45±0.02	0.950±0.006	0.948±0.006	0.031±0.005	0.064±0.005
18.9	-4.1±0.3	1.7±0.3	-0.50±0.01	-1.45±0.02	0.975±0.006	0.972±0.006	0.029±0.005	0.070±0.005
21.4	-4.2±0.3	1.6±0.3	-0.45±0.01	-1.45±0.02	0.997±0.006	0.994±0.006	0.028±0.004	0.073±0.006
24.0	-4.1±0.3	1.5±0.2	-0.41±0.01	-1.44±0.02	1.013±0.007	1.010±0.007	0.026±0.004	0.073±0.006
26.5	-4.1±0.3	1.4±0.2	-0.38±0.01	-1.44±0.02	1.030±0.007	1.027±0.007	0.025±0.004	0.073±0.006
29.1	-4.0±0.3	1.4±0.2	-0.36±0.01	-1.45±0.02	1.044±0.007	1.041±0.007	0.025±0.004	0.073±0.006
31.6	-4.0±0.3	1.3±0.2	-0.33±0.01	-1.45±0.02	1.058±0.007	1.055±0.007	0.024±0.004	0.073±0.006
34.1	-3.9±0.3	1.3±0.2	-0.31±0.01	-1.44±0.02	1.067±0.007	1.064±0.007	0.024±0.004	0.073±0.006
36.7	-3.9±0.3	1.2±0.2	-0.28±0.01	-1.44±0.02	1.078±0.007	1.075±0.007	0.023±0.004	0.073±0.006
39.2	-3.9±0.3	1.2±0.2	-0.25±0.01	-1.44±0.02	1.090±0.007	1.087±0.007	0.022±0.004	0.073±0.006
44.3	-3.8±0.3	1.1±0.2	-0.21±0.01	-1.44±0.02	1.109±0.007	1.107±0.007	0.020±0.004	0.074±0.006
49.4	-3.8±0.3	1.0±0.2	-0.17±0.01	-1.44±0.02	1.129±0.007	1.127±0.007	0.020±0.004	0.074±0.006
54.5	-3.7±0.3	1.0±0.2	-0.12±0.01	-1.43±0.02	1.145±0.007	1.143±0.007	0.019±0.004	0.074±0.006
59.5	-3.6±0.3	0.8±0.2	-0.09±0.01	-1.44±0.02	1.160±0.007	1.158±0.007	0.017±0.004	0.074±0.006
64.6	-3.6±0.3	0.8±0.2	-0.06±0.01	-1.44±0.02	1.174±0.007	1.171±0.007	0.016±0.004	0.074±0.006
69.7	-3.5±0.3	0.8±0.2	-0.04±0.01	-1.45±0.02	1.187±0.007	1.185±0.007	0.016±0.004	0.072±0.007
74.8	-3.5±0.3	0.6±0.2	-0.02±0.01	-1.44±0.02	1.193±0.007	1.191±0.007	0.013±0.004	0.072±0.007
79.9	-3.4±0.3	0.6±0.2	-0.01±0.01	-1.44±0.02	1.198±0.007	1.196±0.007	0.013±0.004	0.071±0.007
84.9	-3.4±0.3	0.6±0.2	0.00±0.01	-1.44±0.02	1.202±0.007	1.200±0.007	0.012±0.004	0.070±0.007
90.0	-3.3±0.3	0.5±0.2	0.01±0.01	-1.44±0.02	1.202±0.007	1.200±0.007	0.011±0.004	0.069±0.007
100.2	-3.2±0.3	0.4±0.2	0.01±0.01	-1.44±0.02	1.203±0.007	1.201±0.007	0.009±0.004	0.067±0.007
110.3	-3.1±0.3	0.4±0.2	0.01±0.01	-1.44±0.02	1.203±0.007	1.201±0.007	0.008±0.004	0.066±0.007
120.5	-3.2±0.3	0.3±0.2	0.01±0.01	-1.44±0.02	1.202±0.007	1.200±0.007	0.006±0.004	0.066±0.007
130.7	-3.1±0.3	0.2±0.2	0.01±0.01	-1.44±0.02	1.201±0.007	1.200±0.007	0.005±0.004	0.064±0.007
140.8	-2.9±0.3	0.2±0.2	0.01±0.01	-1.43±0.02	1.200±0.007	1.199±0.007	0.004±0.004	0.061±0.007

Table B.58 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.3±0.3	3.9±0.3	-0.66±0.01	-1.47±0.02	0.900±0.006	0.894±0.007	0.060±0.005	-0.084±0.005
4.7	4.8±0.3	2.9±0.3	-0.67±0.01	-1.49±0.02	0.906±0.006	0.902±0.006	0.046±0.005	-0.075±0.005
5.7	3.9±0.3	2.6±0.3	-0.67±0.01	-1.49±0.02	0.905±0.006	0.902±0.006	0.041±0.005	-0.062±0.005
6.7	2.8±0.3	2.4±0.3	-0.68±0.01	-1.49±0.02	0.896±0.006	0.894±0.006	0.038±0.005	-0.043±0.005
7.7	1.5±0.3	2.1±0.3	-0.69±0.01	-1.49±0.02	0.897±0.006	0.896±0.006	0.033±0.005	-0.024±0.005
8.7	0.3±0.3	1.9±0.3	-0.69±0.01	-1.49±0.02	0.896±0.006	0.895±0.007	0.029±0.005	-0.004±0.005
9.8	-0.9±0.3	1.6±0.3	-0.67±0.01	-1.49±0.02	0.900±0.006	0.900±0.006	0.025±0.005	0.014±0.005
10.8	-2.0±0.3	1.4±0.3	-0.67±0.01	-1.49±0.02	0.906±0.006	0.905±0.006	0.021±0.005	0.031±0.005
11.8	-2.8±0.3	1.2±0.3	-0.65±0.01	-1.48±0.02	0.916±0.006	0.915±0.006	0.020±0.005	0.044±0.005
12.8	-3.4±0.3	1.1±0.3	-0.62±0.01	-1.48±0.02	0.925±0.006	0.924±0.006	0.017±0.005	0.055±0.005
13.8	-3.9±0.3	1.0±0.3	-0.59±0.01	-1.48±0.02	0.940±0.006	0.938±0.006	0.016±0.005	0.063±0.005
16.4	-4.5±0.3	0.9±0.3	-0.53±0.01	-1.47±0.02	0.967±0.006	0.964±0.006	0.016±0.005	0.076±0.005
18.9	-4.6±0.3	1.0±0.3	-0.49±0.01	-1.47±0.02	0.992±0.007	0.989±0.006	0.017±0.004	0.080±0.005
21.4	-4.6±0.3	1.1±0.2	-0.44±0.01	-1.47±0.02	1.012±0.007	1.008±0.007	0.019±0.004	0.082±0.006
24.0	-4.6±0.3	1.1±0.2	-0.41±0.01	-1.47±0.02	1.031±0.007	1.027±0.007	0.020±0.004	0.082±0.006
26.5	-4.5±0.3	1.1±0.2	-0.38±0.01	-1.46±0.02	1.041±0.007	1.038±0.007	0.020±0.004	0.082±0.006
29.1	-4.4±0.3	1.1±0.2	-0.34±0.01	-1.46±0.02	1.056±0.007	1.053±0.007	0.020±0.004	0.082±0.006
31.6	-4.4±0.3	1.1±0.2	-0.32±0.01	-1.46±0.02	1.066±0.007	1.063±0.007	0.021±0.004	0.082±0.006
34.1	-4.4±0.3	1.1±0.2	-0.30±0.01	-1.47±0.02	1.082±0.007	1.079±0.007	0.020±0.004	0.083±0.006
36.7	-4.3±0.3	1.1±0.2	-0.27±0.01	-1.46±0.02	1.090±0.007	1.086±0.007	0.020±0.004	0.082±0.006
39.2	-4.3±0.3	1.0±0.2	-0.25±0.01	-1.46±0.02	1.102±0.007	1.099±0.007	0.019±0.004	0.083±0.006
44.3	-4.3±0.3	1.0±0.2	-0.20±0.01	-1.46±0.02	1.120±0.007	1.117±0.007	0.019±0.004	0.083±0.006
49.4	-4.2±0.3	1.0±0.2	-0.16±0.01	-1.46±0.02	1.139±0.007	1.136±0.007	0.019±0.004	0.084±0.006
54.5	-4.2±0.3	0.8±0.2	-0.13±0.01	-1.46±0.02	1.156±0.007	1.153±0.007	0.017±0.004	0.084±0.006
59.5	-4.1±0.3	0.8±0.2	-0.09±0.01	-1.46±0.02	1.170±0.007	1.167±0.007	0.016±0.004	0.084±0.006
64.6	-4.1±0.3	0.8±0.2	-0.06±0.01	-1.47±0.02	1.185±0.007	1.182±0.007	0.016±0.004	0.084±0.007
69.7	-4.0±0.3	0.7±0.2	-0.04±0.01	-1.47±0.02	1.195±0.007	1.192±0.007	0.015±0.004	0.083±0.007
74.8	-3.9±0.3	0.6±0.2	-0.02±0.01	-1.46±0.02	1.202±0.007	1.199±0.007	0.013±0.004	0.083±0.007
79.9	-3.9±0.3	0.6±0.2	-0.01±0.01	-1.46±0.02	1.207±0.007	1.204±0.007	0.013±0.004	0.081±0.007
84.9	-3.8±0.3	0.6±0.2	0.00±0.01	-1.47±0.02	1.212±0.007	1.209±0.007	0.012±0.004	0.079±0.007
90.0	-3.8±0.3	0.5±0.2	0.01±0.01	-1.46±0.02	1.213±0.007	1.210±0.007	0.010±0.004	0.080±0.007
100.2	-3.6±0.3	0.4±0.2	0.01±0.01	-1.46±0.02	1.213±0.007	1.211±0.007	0.009±0.004	0.077±0.007
110.3	-3.6±0.3	0.3±0.2	0.01±0.01	-1.46±0.02	1.213±0.007	1.211±0.007	0.006±0.004	0.076±0.007
120.5	-3.6±0.3	0.2±0.2	0.01±0.01	-1.46±0.02	1.212±0.007	1.209±0.007	0.005±0.004	0.075±0.007
130.7	-3.4±0.3	0.2±0.2	0.01±0.01	-1.46±0.02	1.212±0.007	1.210±0.007	0.005±0.004	0.073±0.007
140.8	-3.3±0.3	0.1±0.2	0.01±0.01	-1.46±0.02	1.210±0.007	1.208±0.007	0.003±0.004	0.070±0.007

Table B.59 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.5±0.3	3.2±0.3	-0.59±0.01	-1.49±0.02	0.948±0.006	0.944±0.006	0.053±0.005	-0.074±0.005
4.7	3.8±0.3	2.3±0.3	-0.60±0.01	-1.49±0.02	0.943±0.006	0.940±0.006	0.037±0.005	-0.063±0.005
5.7	2.8±0.3	1.7±0.3	-0.61±0.01	-1.49±0.02	0.939±0.006	0.938±0.006	0.028±0.005	-0.046±0.005
6.7	1.7±0.3	1.3±0.3	-0.62±0.01	-1.49±0.02	0.933±0.006	0.932±0.006	0.021±0.005	-0.028±0.005
7.7	0.6±0.3	0.9±0.3	-0.63±0.01	-1.49±0.02	0.932±0.006	0.932±0.006	0.014±0.005	-0.010±0.005
8.7	-0.5±0.3	0.6±0.3	-0.62±0.01	-1.49±0.02	0.935±0.006	0.935±0.006	0.009±0.005	0.007±0.005
9.8	-1.4±0.3	0.4±0.3	-0.61±0.01	-1.48±0.02	0.933±0.006	0.932±0.006	0.006±0.005	0.023±0.005
10.8	-2.2±0.3	0.3±0.3	-0.60±0.01	-1.49±0.02	0.942±0.006	0.942±0.006	0.005±0.005	0.036±0.005
11.8	-2.9±0.3	0.1±0.3	-0.58±0.01	-1.48±0.02	0.952±0.006	0.951±0.006	0.002±0.005	0.048±0.005
12.8	-3.4±0.3	0.1±0.3	-0.56±0.01	-1.48±0.02	0.960±0.006	0.958±0.006	0.002±0.005	0.057±0.005
13.8	-3.8±0.3	0.1±0.3	-0.53±0.01	-1.48±0.02	0.970±0.006	0.968±0.006	0.002±0.005	0.064±0.005
16.4	-4.3±0.3	0.3±0.3	-0.48±0.01	-1.47±0.02	0.994±0.006	0.991±0.006	0.006±0.004	0.075±0.005
18.9	-4.5±0.3	0.4±0.2	-0.44±0.01	-1.47±0.02	1.013±0.007	1.010±0.007	0.007±0.004	0.080±0.006
21.4	-4.6±0.3	0.6±0.2	-0.41±0.01	-1.47±0.02	1.029±0.007	1.026±0.007	0.010±0.004	0.083±0.006
24.0	-4.6±0.3	0.7±0.2	-0.38±0.01	-1.47±0.02	1.044±0.007	1.040±0.007	0.012±0.004	0.084±0.006
26.5	-4.6±0.3	0.7±0.2	-0.36±0.01	-1.47±0.02	1.053±0.007	1.049±0.007	0.012±0.004	0.085±0.006
29.1	-4.6±0.3	0.8±0.2	-0.33±0.01	-1.47±0.02	1.066±0.007	1.063±0.007	0.014±0.004	0.086±0.006
31.6	-4.6±0.3	0.8±0.2	-0.31±0.01	-1.47±0.02	1.078±0.007	1.074±0.007	0.016±0.004	0.086±0.006
34.1	-4.6±0.3	0.9±0.2	-0.28±0.01	-1.47±0.02	1.089±0.007	1.085±0.007	0.016±0.004	0.088±0.006
36.7	-4.6±0.3	0.8±0.2	-0.26±0.01	-1.47±0.02	1.099±0.007	1.095±0.007	0.016±0.004	0.089±0.006
39.2	-4.6±0.3	0.8±0.2	-0.24±0.01	-1.47±0.02	1.109±0.007	1.105±0.007	0.016±0.004	0.089±0.006
44.3	-4.6±0.3	0.8±0.2	-0.20±0.01	-1.47±0.02	1.128±0.007	1.124±0.007	0.016±0.004	0.090±0.006
49.4	-4.6±0.3	0.8±0.2	-0.16±0.01	-1.47±0.02	1.147±0.007	1.143±0.007	0.016±0.004	0.091±0.006
54.5	-4.5±0.3	0.7±0.2	-0.12±0.01	-1.47±0.02	1.163±0.007	1.159±0.007	0.014±0.004	0.091±0.006
59.5	-4.5±0.3	0.6±0.2	-0.09±0.01	-1.47±0.02	1.176±0.007	1.173±0.007	0.013±0.004	0.091±0.006
64.6	-4.4±0.3	0.6±0.2	-0.06±0.01	-1.47±0.02	1.187±0.007	1.184±0.007	0.013±0.004	0.090±0.007
69.7	-4.3±0.3	0.6±0.2	-0.03±0.01	-1.47±0.02	1.197±0.007	1.194±0.007	0.013±0.004	0.090±0.007
74.8	-4.2±0.3	0.5±0.2	-0.02±0.01	-1.47±0.02	1.205±0.007	1.202±0.007	0.012±0.004	0.089±0.007
79.9	-4.2±0.3	0.4±0.2	0.00±0.01	-1.47±0.02	1.210±0.007	1.207±0.007	0.009±0.004	0.088±0.007
84.9	-4.1±0.3	0.4±0.2	0.00±0.01	-1.47±0.02	1.213±0.007	1.210±0.007	0.009±0.004	0.087±0.007
90.0	-4.1±0.3	0.4±0.2	0.01±0.01	-1.47±0.02	1.216±0.007	1.213±0.007	0.008±0.004	0.086±0.007
100.2	-3.9±0.3	0.3±0.2	0.01±0.01	-1.47±0.02	1.215±0.007	1.212±0.007	0.007±0.004	0.084±0.007
110.3	-3.8±0.3	0.2±0.2	0.01±0.01	-1.47±0.02	1.217±0.007	1.214±0.007	0.004±0.004	0.081±0.007
120.5	-3.8±0.3	0.1±0.2	0.01±0.01	-1.47±0.02	1.215±0.007	1.212±0.007	0.002±0.004	0.081±0.007
130.7	-3.7±0.3	0.1±0.2	0.01±0.01	-1.46±0.02	1.214±0.007	1.211±0.007	0.002±0.004	0.079±0.007
140.8	-3.6±0.3	0.1±0.2	0.01±0.01	-1.46±0.02	1.212±0.007	1.210±0.007	0.001±0.004	0.077±0.007

Table B.60 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.9±0.3	3.2±0.3	-0.54±0.01	-1.50±0.02	0.979±0.006	0.976±0.007	0.054±0.005	-0.049±0.005
4.7	2.2±0.3	2.2±0.3	-0.54±0.01	-1.51±0.02	0.982±0.007	0.981±0.007	0.038±0.005	-0.037±0.005
5.7	1.4±0.3	1.7±0.3	-0.55±0.01	-1.50±0.02	0.975±0.006	0.974±0.006	0.029±0.005	-0.023±0.005
6.7	0.4±0.3	1.2±0.3	-0.55±0.01	-1.50±0.02	0.975±0.006	0.975±0.006	0.021±0.005	-0.007±0.005
7.7	-0.4±0.3	0.9±0.3	-0.55±0.01	-1.50±0.02	0.974±0.006	0.974±0.006	0.015±0.005	0.007±0.005
8.7	-1.2±0.3	0.6±0.3	-0.54±0.01	-1.49±0.02	0.975±0.007	0.974±0.006	0.010±0.005	0.020±0.005
9.8	-1.9±0.3	0.4±0.3	-0.53±0.01	-1.49±0.02	0.979±0.007	0.979±0.007	0.007±0.005	0.032±0.005
10.8	-2.5±0.3	0.3±0.3	-0.52±0.01	-1.49±0.02	0.983±0.007	0.982±0.007	0.006±0.005	0.043±0.005
11.8	-2.9±0.3	0.2±0.3	-0.50±0.01	-1.48±0.02	0.988±0.007	0.986±0.007	0.003±0.004	0.051±0.005
12.8	-3.3±0.3	0.1±0.3	-0.49±0.01	-1.49±0.02	0.997±0.007	0.995±0.007	0.002±0.004	0.057±0.006
13.8	-3.6±0.3	0.2±0.3	-0.47±0.01	-1.48±0.02	1.004±0.007	1.002±0.007	0.003±0.004	0.063±0.006
16.4	-4.1±0.3	0.2±0.2	-0.44±0.01	-1.48±0.02	1.018±0.007	1.015±0.007	0.004±0.004	0.073±0.006
18.9	-4.4±0.3	0.4±0.2	-0.41±0.01	-1.48±0.02	1.035±0.007	1.032±0.007	0.007±0.004	0.080±0.006
21.4	-4.6±0.3	0.4±0.2	-0.38±0.01	-1.47±0.02	1.045±0.007	1.042±0.007	0.007±0.004	0.083±0.006
24.0	-4.7±0.3	0.4±0.2	-0.37±0.01	-1.48±0.02	1.056±0.007	1.053±0.007	0.008±0.004	0.086±0.006
26.5	-4.7±0.3	0.5±0.2	-0.34±0.01	-1.49±0.02	1.070±0.007	1.066±0.007	0.009±0.004	0.088±0.006
29.1	-4.8±0.3	0.6±0.2	-0.31±0.01	-1.48±0.02	1.079±0.007	1.075±0.007	0.011±0.004	0.091±0.006
31.6	-4.9±0.3	0.6±0.2	-0.29±0.01	-1.48±0.02	1.091±0.007	1.087±0.007	0.012±0.004	0.093±0.006
34.1	-4.9±0.3	0.6±0.2	-0.27±0.01	-1.48±0.02	1.102±0.007	1.098±0.007	0.012±0.004	0.094±0.006
36.7	-4.9±0.3	0.6±0.2	-0.25±0.01	-1.48±0.02	1.111±0.007	1.107±0.007	0.012±0.004	0.095±0.006
39.2	-4.9±0.3	0.6±0.2	-0.23±0.01	-1.48±0.02	1.120±0.007	1.116±0.007	0.012±0.004	0.095±0.006
44.3	-4.9±0.3	0.6±0.2	-0.18±0.01	-1.48±0.02	1.141±0.007	1.136±0.007	0.012±0.004	0.097±0.006
49.4	-4.8±0.3	0.6±0.2	-0.15±0.01	-1.48±0.02	1.155±0.007	1.151±0.007	0.012±0.004	0.097±0.006
54.5	-4.8±0.3	0.6±0.2	-0.11±0.01	-1.48±0.02	1.170±0.007	1.166±0.007	0.012±0.004	0.099±0.006
59.5	-4.8±0.3	0.6±0.2	-0.08±0.01	-1.48±0.02	1.183±0.007	1.179±0.007	0.011±0.004	0.098±0.007
64.6	-4.8±0.3	0.5±0.2	-0.06±0.01	-1.49±0.02	1.196±0.007	1.192±0.007	0.010±0.004	0.099±0.007
69.7	-4.7±0.3	0.4±0.2	-0.03±0.01	-1.49±0.02	1.206±0.007	1.202±0.007	0.009±0.004	0.098±0.007
74.8	-4.6±0.3	0.4±0.2	-0.01±0.01	-1.48±0.02	1.214±0.007	1.210±0.007	0.009±0.004	0.097±0.007
79.9	-4.5±0.3	0.4±0.2	0.00±0.01	-1.49±0.02	1.219±0.007	1.215±0.007	0.008±0.004	0.095±0.007
84.9	-4.4±0.3	0.3±0.2	0.00±0.01	-1.49±0.02	1.221±0.007	1.218±0.007	0.007±0.004	0.095±0.007
90.0	-4.4±0.3	0.3±0.2	0.01±0.01	-1.49±0.02	1.222±0.007	1.219±0.007	0.006±0.004	0.093±0.007
100.2	-4.3±0.3	0.2±0.2	0.01±0.01	-1.49±0.02	1.223±0.007	1.219±0.007	0.004±0.004	0.092±0.007
110.3	-4.1±0.3	0.1±0.2	0.01±0.01	-1.49±0.02	1.223±0.007	1.220±0.007	0.003±0.004	0.088±0.007
120.5	-4.1±0.3	0.1±0.2	0.01±0.01	-1.49±0.02	1.222±0.007	1.219±0.007	0.003±0.004	0.088±0.007
130.7	-4.0±0.3	0.0±0.2	0.01±0.01	-1.48±0.02	1.222±0.007	1.219±0.007	0.001±0.004	0.086±0.007
140.8	-3.9±0.3	0.1±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.218±0.007	0.001±0.004	0.083±0.007

Table B.61 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	1.1±0.3	3.1±0.3	-0.50±0.01	-1.51±0.02	1.008±0.006	1.007±0.006	0.055±0.004	-0.019±0.006
4.7	0.4±0.3	2.4±0.3	-0.49±0.01	-1.51±0.02	1.010±0.006	1.009±0.006	0.042±0.004	-0.007±0.006
5.7	-0.2±0.3	1.9±0.2	-0.50±0.01	-1.52±0.02	1.009±0.006	1.009±0.006	0.033±0.004	0.004±0.006
6.7	-0.9±0.3	1.5±0.3	-0.49±0.01	-1.50±0.02	1.004±0.006	1.003±0.006	0.026±0.004	0.016±0.006
7.7	-1.5±0.3	1.2±0.2	-0.49±0.01	-1.50±0.02	1.007±0.006	1.007±0.006	0.021±0.004	0.027±0.006
8.7	-2.0±0.3	0.9±0.2	-0.48±0.01	-1.49±0.02	1.008±0.006	1.007±0.006	0.016±0.004	0.036±0.006
9.8	-2.5±0.3	0.7±0.2	-0.47±0.01	-1.50±0.02	1.011±0.007	1.010±0.006	0.012±0.004	0.044±0.006
10.8	-2.9±0.3	0.5±0.2	-0.47±0.01	-1.50±0.02	1.014±0.007	1.013±0.007	0.009±0.004	0.051±0.006
11.8	-3.3±0.3	0.4±0.2	-0.46±0.01	-1.50±0.02	1.018±0.007	1.017±0.007	0.008±0.004	0.058±0.006
12.8	-3.5±0.3	0.4±0.2	-0.44±0.01	-1.49±0.02	1.023±0.007	1.021±0.007	0.007±0.004	0.063±0.006
13.8	-3.8±0.3	0.4±0.2	-0.44±0.01	-1.50±0.02	1.029±0.007	1.026±0.007	0.007±0.004	0.068±0.006
16.4	-4.2±0.3	0.3±0.2	-0.42±0.01	-1.50±0.02	1.041±0.007	1.038±0.007	0.005±0.004	0.077±0.006
18.9	-4.6±0.3	0.3±0.2	-0.39±0.01	-1.50±0.02	1.051±0.007	1.048±0.007	0.005±0.004	0.084±0.006
21.4	-4.7±0.3	0.3±0.2	-0.37±0.01	-1.50±0.02	1.062±0.007	1.058±0.007	0.005±0.004	0.088±0.006
24.0	-4.9±0.3	0.3±0.2	-0.34±0.01	-1.50±0.02	1.075±0.007	1.071±0.007	0.006±0.004	0.092±0.006
26.5	-5.0±0.3	0.4±0.2	-0.32±0.01	-1.49±0.02	1.080±0.007	1.076±0.007	0.007±0.004	0.095±0.006
29.1	-5.1±0.3	0.4±0.2	-0.30±0.01	-1.49±0.02	1.094±0.007	1.089±0.007	0.007±0.004	0.097±0.006
31.6	-5.2±0.3	0.4±0.2	-0.28±0.01	-1.50±0.02	1.103±0.007	1.099±0.007	0.007±0.004	0.100±0.006
34.1	-5.3±0.3	0.4±0.2	-0.26±0.01	-1.50±0.02	1.112±0.007	1.108±0.007	0.008±0.004	0.102±0.006
36.7	-5.3±0.3	0.4±0.2	-0.23±0.01	-1.49±0.02	1.122±0.007	1.117±0.007	0.008±0.004	0.103±0.006
39.2	-5.3±0.3	0.4±0.2	-0.21±0.01	-1.48±0.02	1.129±0.007	1.124±0.007	0.008±0.004	0.104±0.006
44.3	-5.3±0.3	0.4±0.2	-0.18±0.01	-1.49±0.02	1.147±0.007	1.142±0.007	0.008±0.004	0.106±0.006
49.4	-5.3±0.3	0.4±0.2	-0.14±0.01	-1.50±0.02	1.165±0.007	1.160±0.007	0.008±0.004	0.107±0.006
54.5	-5.3±0.3	0.4±0.2	-0.11±0.01	-1.49±0.02	1.178±0.007	1.173±0.007	0.008±0.004	0.108±0.007
59.5	-5.3±0.3	0.4±0.2	-0.08±0.01	-1.50±0.02	1.192±0.007	1.187±0.007	0.008±0.004	0.109±0.007
64.6	-5.2±0.3	0.4±0.2	-0.05±0.01	-1.50±0.02	1.204±0.007	1.199±0.007	0.008±0.004	0.109±0.007
69.7	-5.1±0.3	0.3±0.2	-0.03±0.01	-1.51±0.02	1.217±0.007	1.212±0.007	0.007±0.004	0.108±0.007
74.8	-5.0±0.3	0.2±0.2	-0.02±0.01	-1.51±0.02	1.221±0.007	1.216±0.007	0.005±0.004	0.107±0.007
79.9	-5.0±0.3	0.2±0.2	0.00±0.01	-1.51±0.02	1.226±0.007	1.221±0.007	0.005±0.004	0.106±0.007
84.9	-4.9±0.3	0.2±0.2	0.00±0.01	-1.51±0.02	1.228±0.007	1.224±0.007	0.003±0.004	0.105±0.007
90.0	-4.8±0.3	0.2±0.2	0.01±0.01	-1.50±0.02	1.230±0.007	1.225±0.007	0.004±0.004	0.103±0.007
100.2	-4.6±0.3	0.1±0.2	0.01±0.01	-1.51±0.02	1.231±0.007	1.227±0.007	0.001±0.004	0.100±0.007
110.3	-4.5±0.3	0.0±0.2	0.01±0.01	-1.51±0.02	1.231±0.007	1.228±0.007	0.001±0.004	0.097±0.007
120.5	-4.5±0.3	0.0±0.2	0.01±0.01	-1.50±0.02	1.230±0.007	1.227±0.007	0.000±0.004	0.097±0.007
130.7	-4.5±0.3	-0.1±0.2	0.01±0.01	-1.50±0.02	1.228±0.007	1.225±0.007	-0.002±0.004	0.096±0.007
140.8	-4.3±0.3	-0.1±0.2	0.01±0.01	-1.50±0.02	1.228±0.007	1.224±0.007	-0.002±0.004	0.092±0.007

Table B.62 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.4±0.3	2.8±0.2	-0.47±0.01	-1.53±0.02	1.029±0.007	1.028±0.007	0.050±0.004	-0.008±0.006
4.7	0.0±0.3	2.2±0.2	-0.46±0.01	-1.53±0.02	1.036±0.007	1.035±0.007	0.039±0.004	0.001±0.006
5.7	-0.5±0.3	1.8±0.2	-0.45±0.01	-1.52±0.02	1.036±0.007	1.035±0.007	0.032±0.004	0.009±0.006
6.7	-1.0±0.3	1.4±0.2	-0.45±0.01	-1.52±0.02	1.037±0.007	1.037±0.007	0.025±0.004	0.018±0.006
7.7	-1.4±0.3	1.1±0.2	-0.44±0.01	-1.52±0.02	1.039±0.007	1.038±0.007	0.020±0.004	0.026±0.006
8.7	-1.9±0.3	0.8±0.2	-0.43±0.01	-1.51±0.02	1.037±0.007	1.036±0.007	0.015±0.004	0.034±0.006
9.8	-2.2±0.3	0.7±0.2	-0.44±0.01	-1.53±0.02	1.045±0.007	1.044±0.007	0.012±0.004	0.040±0.006
10.8	-2.5±0.3	0.4±0.2	-0.42±0.01	-1.52±0.02	1.048±0.007	1.047±0.007	0.008±0.004	0.045±0.006
11.8	-2.7±0.3	0.4±0.2	-0.42±0.01	-1.52±0.02	1.048±0.007	1.047±0.007	0.007±0.004	0.049±0.006
12.8	-2.9±0.3	0.3±0.2	-0.41±0.01	-1.52±0.02	1.053±0.007	1.051±0.007	0.005±0.004	0.053±0.006
13.8	-3.1±0.3	0.2±0.2	-0.40±0.01	-1.52±0.02	1.057±0.007	1.056±0.007	0.003±0.004	0.057±0.006
16.4	-3.4±0.3	0.0±0.2	-0.37±0.01	-1.50±0.02	1.063±0.007	1.061±0.007	-0.001±0.004	0.063±0.006
18.9	-3.7±0.3	0.0±0.2	-0.36±0.01	-1.51±0.02	1.075±0.007	1.073±0.007	0.001±0.004	0.070±0.006
21.4	-3.9±0.3	0.0±0.2	-0.34±0.01	-1.52±0.02	1.086±0.007	1.083±0.007	-0.001±0.004	0.074±0.006
24.0	-4.1±0.3	0.0±0.2	-0.32±0.01	-1.52±0.02	1.093±0.007	1.090±0.007	0.000±0.004	0.078±0.006
26.5	-4.2±0.3	-0.1±0.2	-0.29±0.01	-1.51±0.02	1.103±0.007	1.100±0.007	-0.002±0.004	0.081±0.006
29.1	-4.4±0.3	-0.1±0.2	-0.28±0.01	-1.52±0.02	1.114±0.007	1.111±0.007	-0.001±0.004	0.085±0.006
31.6	-4.4±0.3	-0.1±0.2	-0.25±0.01	-1.51±0.02	1.121±0.007	1.117±0.007	-0.002±0.004	0.087±0.006
34.1	-4.5±0.3	0.0±0.2	-0.23±0.01	-1.51±0.02	1.129±0.007	1.126±0.007	-0.001±0.004	0.088±0.006
36.7	-4.5±0.3	0.0±0.2	-0.21±0.01	-1.51±0.02	1.139±0.007	1.135±0.007	0.000±0.004	0.090±0.006
39.2	-4.6±0.3	0.0±0.2	-0.19±0.01	-1.51±0.02	1.149±0.007	1.145±0.007	0.000±0.004	0.092±0.006
44.3	-4.6±0.3	0.0±0.2	-0.15±0.01	-1.51±0.02	1.163±0.007	1.159±0.007	0.000±0.004	0.094±0.006
49.4	-4.6±0.3	0.0±0.2	-0.12±0.01	-1.51±0.02	1.177±0.007	1.174±0.007	0.000±0.004	0.095±0.007
54.5	-4.6±0.3	0.0±0.2	-0.09±0.01	-1.51±0.02	1.191±0.007	1.188±0.007	0.001±0.004	0.095±0.007
59.5	-4.6±0.3	0.0±0.2	-0.07±0.01	-1.53±0.02	1.206±0.007	1.202±0.007	0.001±0.004	0.096±0.007
64.6	-4.5±0.3	0.0±0.2	-0.05±0.01	-1.53±0.02	1.217±0.007	1.214±0.007	0.001±0.004	0.096±0.007
69.7	-4.5±0.3	-0.1±0.2	-0.03±0.01	-1.53±0.02	1.226±0.007	1.223±0.007	-0.001±0.004	0.096±0.007
74.8	-4.4±0.3	-0.1±0.2	-0.01±0.01	-1.53±0.02	1.233±0.007	1.229±0.007	-0.001±0.004	0.095±0.007
79.9	-4.4±0.3	-0.1±0.2	0.00±0.01	-1.53±0.02	1.235±0.007	1.232±0.007	-0.002±0.004	0.094±0.007
84.9	-4.3±0.3	-0.1±0.2	0.00±0.01	-1.53±0.02	1.239±0.007	1.235±0.007	-0.001±0.004	0.092±0.007
90.0	-4.1±0.3	-0.1±0.2	0.01±0.01	-1.53±0.02	1.240±0.007	1.236±0.007	-0.002±0.004	0.090±0.007
100.2	-4.0±0.3	-0.1±0.2	0.01±0.01	-1.53±0.02	1.241±0.007	1.238±0.007	-0.002±0.004	0.087±0.007
110.3	-4.0±0.3	-0.1±0.2	0.01±0.01	-1.53±0.02	1.241±0.007	1.238±0.007	-0.003±0.004	0.086±0.007
120.5	-3.9±0.3	-0.2±0.2	0.01±0.01	-1.53±0.02	1.241±0.007	1.238±0.007	-0.004±0.004	0.084±0.007
130.7	-3.8±0.3	-0.2±0.2	0.01±0.01	-1.53±0.02	1.239±0.007	1.236±0.007	-0.004±0.004	0.082±0.007
140.8	-3.7±0.3	-0.2±0.2	0.01±0.01	-1.53±0.02	1.239±0.007	1.236±0.007	-0.005±0.004	0.080±0.007

Table B.63 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(130 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.9±0.3	2.1±0.3	-0.49±0.01	-1.51±0.02	1.013±0.007	1.011±0.007	0.037±0.004	0.051±0.006
4.7	-3.0±0.3	1.2±0.2	-0.46±0.01	-1.51±0.02	1.024±0.007	1.022±0.007	0.021±0.004	0.053±0.006
5.7	-3.0±0.3	0.6±0.2	-0.44±0.01	-1.51±0.02	1.034±0.007	1.032±0.007	0.011±0.004	0.055±0.006
6.7	-3.1±0.3	0.1±0.2	-0.42±0.01	-1.51±0.02	1.043±0.007	1.042±0.007	0.002±0.004	0.056±0.006
7.7	-3.2±0.3	-0.3±0.2	-0.40±0.01	-1.50±0.02	1.046±0.007	1.044±0.007	-0.005±0.004	0.059±0.006
8.7	-3.4±0.3	-0.6±0.2	-0.39±0.01	-1.50±0.02	1.054±0.007	1.052±0.007	-0.010±0.004	0.062±0.006
9.8	-3.5±0.3	-0.8±0.2	-0.38±0.01	-1.50±0.02	1.059±0.007	1.057±0.007	-0.014±0.004	0.065±0.006
10.8	-3.7±0.3	-0.9±0.2	-0.37±0.01	-1.50±0.02	1.064±0.007	1.061±0.007	-0.016±0.004	0.069±0.006
11.8	-3.9±0.3	-0.9±0.2	-0.36±0.01	-1.50±0.02	1.068±0.007	1.065±0.007	-0.018±0.004	0.073±0.006
12.8	-4.1±0.3	-1.0±0.2	-0.36±0.01	-1.50±0.02	1.066±0.007	1.063±0.007	-0.019±0.004	0.075±0.006
13.8	-4.1±0.3	-1.1±0.2	-0.34±0.01	-1.48±0.02	1.069±0.007	1.066±0.007	-0.020±0.004	0.077±0.006
16.4	-4.5±0.3	-1.1±0.2	-0.33±0.01	-1.49±0.02	1.078±0.007	1.074±0.007	-0.020±0.004	0.085±0.006
18.9	-4.7±0.3	-1.1±0.2	-0.30±0.01	-1.49±0.02	1.088±0.007	1.084±0.007	-0.022±0.004	0.090±0.006
21.4	-5.0±0.3	-1.1±0.2	-0.29±0.01	-1.50±0.02	1.099±0.007	1.094±0.007	-0.021±0.004	0.096±0.006
24.0	-5.2±0.3	-1.1±0.2	-0.28±0.01	-1.50±0.02	1.109±0.007	1.104±0.007	-0.021±0.004	0.100±0.006
26.5	-5.3±0.3	-1.1±0.2	-0.25±0.01	-1.49±0.02	1.113±0.007	1.108±0.007	-0.020±0.004	0.103±0.006
29.1	-5.4±0.3	-1.1±0.2	-0.24±0.01	-1.50±0.02	1.121±0.007	1.116±0.007	-0.020±0.004	0.105±0.006
31.6	-5.5±0.3	-1.0±0.2	-0.22±0.01	-1.50±0.02	1.131±0.007	1.126±0.007	-0.020±0.004	0.108±0.006
34.1	-5.6±0.3	-1.0±0.2	-0.20±0.01	-1.50±0.02	1.140±0.007	1.135±0.007	-0.019±0.004	0.111±0.006
36.7	-5.6±0.3	-0.9±0.2	-0.19±0.01	-1.50±0.02	1.147±0.007	1.141±0.007	-0.019±0.004	0.112±0.006
39.2	-5.6±0.3	-0.9±0.2	-0.16±0.01	-1.49±0.02	1.152±0.007	1.146±0.007	-0.018±0.004	0.113±0.006
44.3	-5.7±0.3	-0.8±0.2	-0.14±0.01	-1.51±0.02	1.169±0.007	1.163±0.007	-0.017±0.004	0.116±0.006
49.4	-5.7±0.3	-0.7±0.2	-0.12±0.01	-1.52±0.02	1.185±0.007	1.179±0.007	-0.014±0.004	0.118±0.007
54.5	-5.8±0.3	-0.6±0.2	-0.08±0.01	-1.51±0.02	1.196±0.007	1.189±0.007	-0.013±0.004	0.120±0.007
59.5	-5.8±0.3	-0.6±0.2	-0.05±0.01	-1.52±0.02	1.209±0.007	1.203±0.007	-0.013±0.004	0.122±0.007
64.6	-5.8±0.3	-0.5±0.2	-0.04±0.01	-1.52±0.02	1.219±0.007	1.213±0.007	-0.010±0.004	0.122±0.007
69.7	-5.7±0.3	-0.5±0.2	-0.02±0.01	-1.52±0.02	1.224±0.007	1.217±0.007	-0.010±0.004	0.122±0.007
74.8	-5.7±0.3	-0.4±0.2	-0.01±0.01	-1.52±0.02	1.231±0.007	1.225±0.007	-0.009±0.004	0.122±0.007
79.9	-5.6±0.3	-0.4±0.2	0.00±0.01	-1.53±0.02	1.236±0.007	1.230±0.007	-0.009±0.004	0.120±0.007
84.9	-5.5±0.3	-0.3±0.2	0.00±0.01	-1.53±0.02	1.238±0.007	1.232±0.007	-0.006±0.004	0.118±0.007
90.0	-5.4±0.3	-0.2±0.2	0.01±0.01	-1.53±0.02	1.240±0.007	1.234±0.007	-0.005±0.004	0.116±0.007
100.2	-5.3±0.3	-0.2±0.2	0.01±0.01	-1.53±0.02	1.241±0.007	1.235±0.007	-0.005±0.004	0.114±0.007
110.3	-5.2±0.3	-0.3±0.2	0.01±0.01	-1.53±0.02	1.241±0.007	1.236±0.007	-0.006±0.004	0.113±0.007
120.5	-5.2±0.3	-0.3±0.2	0.01±0.01	-1.53±0.02	1.241±0.007	1.236±0.007	-0.006±0.004	0.112±0.007
130.7	-5.1±0.3	-0.3±0.2	0.01±0.01	-1.53±0.02	1.241±0.007	1.236±0.007	-0.006±0.004	0.110±0.007
140.8	-5.1±0.3	-0.3±0.2	0.01±0.01	-1.53±0.02	1.239±0.007	1.234±0.007	-0.006±0.004	0.109±0.007

Table B.64 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.9±0.3	2.7±0.6	-0.82±0.01	-1.26±0.02	0.664±0.007	0.662±0.007	0.032±0.007	0.034±0.004
4.7	-2.8±0.3	1.0±0.5	-0.77±0.01	-1.26±0.02	0.700±0.007	0.699±0.007	0.012±0.006	0.034±0.004
5.7	-2.5±0.3	0.5±0.5	-0.74±0.01	-1.28±0.02	0.733±0.007	0.732±0.007	0.006±0.006	0.032±0.004
6.7	-2.4±0.3	0.3±0.5	-0.71±0.01	-1.27±0.02	0.752±0.007	0.751±0.007	0.004±0.006	0.031±0.004
7.7	-2.1±0.3	0.1±0.4	-0.67±0.01	-1.27±0.02	0.774±0.007	0.773±0.007	0.001±0.006	0.029±0.004
8.7	-2.1±0.3	-0.1±0.4	-0.65±0.01	-1.27±0.02	0.790±0.007	0.790±0.007	-0.001±0.006	0.029±0.004
9.8	-2.0±0.3	0.0±0.4	-0.64±0.01	-1.28±0.02	0.804±0.007	0.803±0.007	0.000±0.006	0.029±0.004
10.8	-2.0±0.3	0.0±0.4	-0.61±0.01	-1.27±0.02	0.814±0.007	0.814±0.007	0.000±0.005	0.028±0.004
11.8	-1.9±0.3	0.0±0.4	-0.59±0.01	-1.26±0.02	0.820±0.007	0.820±0.007	-0.001±0.005	0.027±0.005
12.8	-1.9±0.3	0.0±0.4	-0.57±0.01	-1.27±0.02	0.839±0.007	0.838±0.007	0.000±0.005	0.027±0.005
13.8	-1.7±0.3	0.0±0.4	-0.56±0.01	-1.28±0.02	0.845±0.007	0.845±0.007	0.000±0.005	0.025±0.005
16.4	-1.7±0.3	0.0±0.3	-0.52±0.01	-1.26±0.02	0.863±0.007	0.863±0.007	0.000±0.005	0.025±0.005
18.9	-1.6±0.3	0.0±0.3	-0.49±0.01	-1.26±0.02	0.878±0.007	0.877±0.007	0.001±0.005	0.025±0.005
21.4	-1.5±0.3	0.1±0.3	-0.46±0.01	-1.26±0.02	0.896±0.007	0.896±0.007	0.002±0.005	0.023±0.005
24.0	-1.5±0.3	0.1±0.3	-0.42±0.01	-1.26±0.02	0.917±0.006	0.916±0.006	0.002±0.005	0.024±0.005
26.5	-1.5±0.3	0.2±0.3	-0.40±0.01	-1.27±0.02	0.932±0.006	0.931±0.006	0.003±0.005	0.024±0.005
29.1	-1.5±0.3	0.1±0.3	-0.37±0.01	-1.26±0.02	0.946±0.006	0.946±0.006	0.002±0.005	0.025±0.005
31.6	-1.5±0.3	0.3±0.3	-0.34±0.01	-1.26±0.02	0.956±0.006	0.956±0.006	0.004±0.005	0.025±0.005
34.1	-1.4±0.3	0.2±0.3	-0.32±0.01	-1.26±0.02	0.970±0.006	0.970±0.006	0.003±0.005	0.024±0.005
36.7	-1.4±0.3	0.2±0.3	-0.30±0.01	-1.26±0.02	0.981±0.007	0.981±0.007	0.004±0.005	0.024±0.005
39.2	-1.4±0.3	0.2±0.3	-0.28±0.01	-1.27±0.02	0.994±0.007	0.994±0.007	0.004±0.004	0.024±0.005
44.3	-1.4±0.3	0.3±0.2	-0.22±0.01	-1.26±0.02	1.019±0.007	1.019±0.007	0.005±0.004	0.024±0.006
49.4	-1.4±0.3	0.3±0.2	-0.18±0.01	-1.26±0.02	1.038±0.007	1.037±0.007	0.005±0.004	0.025±0.006
54.5	-1.3±0.3	0.3±0.2	-0.14±0.01	-1.26±0.02	1.058±0.007	1.058±0.007	0.005±0.004	0.024±0.006
59.5	-1.3±0.3	0.4±0.2	-0.11±0.01	-1.26±0.02	1.074±0.007	1.074±0.007	0.007±0.004	0.024±0.006
64.6	-1.3±0.3	0.4±0.2	-0.07±0.01	-1.26±0.02	1.088±0.007	1.088±0.007	0.007±0.004	0.024±0.006
69.7	-1.2±0.3	0.4±0.2	-0.04±0.01	-1.26±0.02	1.103±0.007	1.103±0.007	0.007±0.004	0.024±0.006
74.8	-1.2±0.3	0.4±0.2	-0.02±0.01	-1.25±0.02	1.108±0.007	1.108±0.007	0.007±0.004	0.024±0.006
79.9	-1.2±0.3	0.4±0.2	-0.01±0.01	-1.26±0.02	1.118±0.007	1.117±0.007	0.007±0.004	0.024±0.006
84.9	-1.1±0.3	0.4±0.2	0.00±0.01	-1.25±0.02	1.120±0.007	1.120±0.007	0.008±0.004	0.022±0.006
90.0	-1.1±0.3	0.4±0.2	0.00±0.01	-1.26±0.02	1.122±0.007	1.122±0.007	0.008±0.004	0.022±0.006
100.2	-1.1±0.3	0.4±0.2	0.01±0.01	-1.25±0.02	1.123±0.007	1.123±0.007	0.007±0.004	0.021±0.006
110.3	-1.1±0.3	0.3±0.2	0.01±0.01	-1.25±0.02	1.123±0.007	1.122±0.007	0.007±0.004	0.022±0.006
120.5	-1.0±0.3	0.3±0.2	0.01±0.01	-1.25±0.02	1.123±0.007	1.123±0.007	0.005±0.004	0.020±0.006
130.7	-1.0±0.3	0.2±0.2	0.01±0.01	-1.25±0.02	1.123±0.007	1.123±0.007	0.005±0.004	0.019±0.006
140.8	-1.0±0.3	0.2±0.2	0.01±0.01	-1.25±0.02	1.122±0.007	1.121±0.007	0.004±0.004	0.019±0.006

Table B.65 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.1±0.3	2.7±0.6	-0.80±0.01	-1.24±0.02	0.660±0.007	0.659±0.007	0.031±0.007	0.036±0.004
4.7	-3.0±0.3	1.0±0.5	-0.76±0.01	-1.24±0.02	0.691±0.007	0.690±0.007	0.012±0.006	0.036±0.004
5.7	-2.7±0.3	0.4±0.5	-0.73±0.01	-1.25±0.02	0.724±0.007	0.723±0.007	0.005±0.006	0.035±0.004
6.7	-2.5±0.3	0.3±0.5	-0.69±0.01	-1.26±0.02	0.749±0.007	0.749±0.007	0.004±0.006	0.033±0.004
7.7	-2.4±0.3	0.0±0.4	-0.66±0.01	-1.26±0.02	0.770±0.007	0.770±0.007	0.000±0.006	0.033±0.004
8.7	-2.3±0.3	0.0±0.4	-0.64±0.01	-1.26±0.02	0.789±0.007	0.788±0.007	0.000±0.006	0.031±0.004
9.8	-2.2±0.3	0.0±0.4	-0.62±0.01	-1.26±0.02	0.800±0.007	0.799±0.007	0.000±0.006	0.031±0.004
10.8	-2.1±0.3	0.0±0.4	-0.60±0.01	-1.26±0.02	0.815±0.007	0.814±0.007	0.000±0.005	0.030±0.004
11.8	-2.1±0.3	0.0±0.4	-0.58±0.01	-1.26±0.02	0.824±0.007	0.823±0.007	0.000±0.005	0.030±0.005
12.8	-2.0±0.3	0.0±0.4	-0.56±0.01	-1.26±0.02	0.839±0.007	0.838±0.007	0.000±0.005	0.029±0.005
13.8	-2.0±0.3	0.0±0.4	-0.55±0.01	-1.26±0.02	0.842±0.007	0.841±0.007	0.000±0.005	0.029±0.005
16.4	-1.9±0.3	0.0±0.3	-0.51±0.01	-1.26±0.02	0.864±0.007	0.863±0.007	0.000±0.005	0.028±0.005
18.9	-1.8±0.3	0.0±0.3	-0.49±0.01	-1.27±0.02	0.885±0.006	0.885±0.006	0.001±0.005	0.029±0.005
21.4	-1.9±0.3	0.1±0.3	-0.46±0.01	-1.27±0.02	0.901±0.006	0.901±0.006	0.001±0.005	0.030±0.005
24.0	-1.9±0.3	0.1±0.3	-0.43±0.01	-1.27±0.02	0.919±0.006	0.918±0.006	0.002±0.005	0.031±0.005
26.5	-1.9±0.3	0.1±0.3	-0.40±0.01	-1.27±0.02	0.931±0.006	0.930±0.006	0.002±0.005	0.031±0.005
29.1	-1.9±0.3	0.1±0.3	-0.37±0.01	-1.27±0.02	0.945±0.006	0.945±0.006	0.002±0.005	0.031±0.005
31.6	-1.9±0.3	0.1±0.3	-0.34±0.01	-1.24±0.02	0.952±0.006	0.952±0.006	0.002±0.005	0.031±0.005
34.1	-1.9±0.3	0.1±0.3	-0.32±0.01	-1.26±0.02	0.969±0.006	0.968±0.006	0.002±0.005	0.032±0.005
36.7	-1.9±0.3	0.2±0.3	-0.30±0.01	-1.26±0.02	0.979±0.006	0.978±0.006	0.003±0.005	0.032±0.005
39.2	-1.9±0.3	0.2±0.3	-0.28±0.01	-1.27±0.02	0.993±0.006	0.993±0.006	0.004±0.004	0.033±0.005
44.3	-1.8±0.3	0.3±0.2	-0.23±0.01	-1.26±0.02	1.013±0.007	1.013±0.007	0.005±0.004	0.032±0.006
49.4	-1.8±0.3	0.3±0.2	-0.18±0.01	-1.26±0.02	1.035±0.007	1.035±0.007	0.006±0.004	0.033±0.006
54.5	-1.8±0.3	0.4±0.2	-0.14±0.01	-1.25±0.02	1.055±0.007	1.055±0.007	0.007±0.004	0.033±0.006
59.5	-1.8±0.3	0.4±0.2	-0.11±0.01	-1.26±0.02	1.071±0.007	1.070±0.007	0.007±0.004	0.033±0.006
64.6	-1.7±0.3	0.4±0.2	-0.07±0.01	-1.25±0.02	1.086±0.007	1.086±0.007	0.007±0.004	0.032±0.006
69.7	-1.7±0.3	0.4±0.2	-0.04±0.01	-1.25±0.02	1.097±0.007	1.097±0.007	0.007±0.004	0.032±0.006
74.8	-1.6±0.3	0.4±0.2	-0.02±0.01	-1.24±0.02	1.107±0.007	1.107±0.007	0.007±0.004	0.032±0.006
79.9	-1.6±0.3	0.4±0.2	-0.01±0.01	-1.25±0.02	1.114±0.007	1.113±0.007	0.007±0.004	0.032±0.006
84.9	-1.6±0.3	0.4±0.2	0.00±0.01	-1.24±0.02	1.117±0.007	1.116±0.007	0.007±0.004	0.032±0.006
90.0	-1.7±0.3	0.4±0.2	0.01±0.01	-1.24±0.02	1.119±0.007	1.118±0.007	0.007±0.004	0.033±0.006
100.2	-1.6±0.3	0.4±0.2	0.01±0.01	-1.24±0.02	1.119±0.007	1.119±0.007	0.007±0.004	0.032±0.006
110.3	-1.6±0.3	0.2±0.2	0.01±0.01	-1.24±0.02	1.119±0.007	1.119±0.007	0.004±0.004	0.030±0.006
120.5	-1.5±0.3	0.2±0.2	0.01±0.01	-1.24±0.02	1.119±0.007	1.119±0.007	0.003±0.004	0.029±0.006
130.7	-1.4±0.3	0.1±0.2	0.01±0.01	-1.24±0.02	1.119±0.007	1.119±0.007	0.003±0.004	0.027±0.006
140.8	-1.4±0.3	0.1±0.2	0.01±0.01	-1.24±0.02	1.119±0.007	1.118±0.007	0.001±0.004	0.028±0.006

Table B.66 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.4±0.3	3.5±0.6	-0.82±0.01	-1.23±0.02	0.643±0.007	0.641±0.007	0.039±0.007	0.038±0.004
4.7	-3.2±0.3	1.0±0.6	-0.77±0.01	-1.23±0.02	0.679±0.007	0.678±0.007	0.012±0.007	0.037±0.004
5.7	-3.0±0.3	0.5±0.5	-0.73±0.01	-1.24±0.02	0.717±0.007	0.716±0.007	0.006±0.006	0.037±0.004
6.7	-2.8±0.3	0.3±0.5	-0.69±0.01	-1.24±0.02	0.739±0.007	0.738±0.007	0.004±0.006	0.037±0.004
7.7	-2.6±0.3	0.1±0.4	-0.66±0.01	-1.23±0.02	0.757±0.007	0.756±0.007	0.002±0.006	0.035±0.004
8.7	-2.5±0.3	0.0±0.4	-0.64±0.01	-1.24±0.02	0.774±0.007	0.773±0.007	0.000±0.006	0.034±0.004
9.8	-2.4±0.3	-0.1±0.4	-0.61±0.01	-1.24±0.02	0.794±0.007	0.793±0.007	-0.001±0.006	0.033±0.004
10.8	-2.4±0.3	0.0±0.4	-0.60±0.01	-1.24±0.02	0.803±0.007	0.803±0.007	0.000±0.006	0.033±0.004
11.8	-2.3±0.3	0.0±0.4	-0.58±0.01	-1.25±0.02	0.819±0.007	0.819±0.007	0.000±0.005	0.033±0.005
12.8	-2.1±0.3	0.0±0.4	-0.56±0.01	-1.23±0.02	0.823±0.007	0.823±0.007	0.000±0.005	0.031±0.005
13.8	-2.1±0.3	0.0±0.4	-0.54±0.01	-1.23±0.02	0.833±0.007	0.833±0.007	0.000±0.005	0.031±0.005
16.4	-2.0±0.3	0.1±0.3	-0.51±0.01	-1.24±0.02	0.858±0.007	0.857±0.007	0.001±0.005	0.031±0.005
18.9	-2.0±0.3	0.1±0.3	-0.48±0.01	-1.24±0.02	0.874±0.007	0.873±0.007	0.002±0.005	0.031±0.005
21.4	-2.0±0.3	0.1±0.3	-0.45±0.01	-1.24±0.02	0.886±0.007	0.886±0.007	0.002±0.005	0.032±0.005
24.0	-2.1±0.3	0.2±0.3	-0.42±0.01	-1.23±0.02	0.902±0.007	0.902±0.007	0.003±0.005	0.033±0.005
26.5	-2.1±0.3	0.1±0.3	-0.39±0.01	-1.23±0.02	0.917±0.007	0.917±0.007	0.002±0.005	0.033±0.005
29.1	-2.1±0.3	0.1±0.3	-0.37±0.01	-1.23±0.02	0.930±0.007	0.929±0.007	0.002±0.005	0.034±0.005
31.6	-2.1±0.3	0.3±0.3	-0.34±0.01	-1.24±0.02	0.946±0.007	0.946±0.007	0.005±0.005	0.034±0.005
34.1	-2.0±0.3	0.2±0.3	-0.31±0.01	-1.23±0.02	0.958±0.007	0.957±0.007	0.004±0.005	0.034±0.005
36.7	-2.0±0.3	0.3±0.3	-0.29±0.01	-1.23±0.02	0.973±0.007	0.972±0.007	0.006±0.005	0.034±0.005
39.2	-2.0±0.3	0.4±0.3	-0.28±0.01	-1.25±0.02	0.985±0.007	0.984±0.007	0.006±0.005	0.035±0.005
44.3	-2.0±0.3	0.4±0.3	-0.23±0.01	-1.24±0.02	1.002±0.007	1.002±0.007	0.006±0.004	0.035±0.006
49.4	-2.0±0.3	0.4±0.2	-0.19±0.01	-1.23±0.02	1.021±0.007	1.021±0.007	0.007±0.004	0.036±0.006
54.5	-2.0±0.3	0.4±0.2	-0.14±0.01	-1.23±0.02	1.044±0.007	1.043±0.007	0.007±0.004	0.037±0.006
59.5	-2.0±0.3	0.4±0.2	-0.11±0.01	-1.24±0.02	1.062±0.007	1.061±0.007	0.007±0.004	0.037±0.006
64.6	-2.0±0.3	0.4±0.2	-0.07±0.01	-1.22±0.02	1.074±0.007	1.073±0.007	0.008±0.004	0.037±0.006
69.7	-2.0±0.3	0.4±0.2	-0.04±0.01	-1.23±0.02	1.088±0.007	1.087±0.007	0.008±0.004	0.038±0.006
74.8	-1.9±0.3	0.4±0.2	-0.02±0.01	-1.23±0.02	1.099±0.007	1.098±0.007	0.008±0.004	0.037±0.006
79.9	-2.0±0.3	0.4±0.2	0.00±0.01	-1.22±0.02	1.104±0.007	1.103±0.007	0.008±0.004	0.038±0.006
84.9	-1.9±0.3	0.4±0.2	0.00±0.01	-1.22±0.02	1.106±0.007	1.105±0.007	0.007±0.004	0.037±0.006
90.0	-1.9±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.108±0.007	1.107±0.007	0.007±0.004	0.037±0.006
100.2	-1.8±0.3	0.3±0.2	0.01±0.01	-1.22±0.02	1.108±0.007	1.108±0.007	0.006±0.004	0.035±0.006
110.3	-1.8±0.3	0.2±0.2	0.01±0.01	-1.22±0.02	1.109±0.007	1.108±0.007	0.004±0.004	0.035±0.006
120.5	-1.7±0.3	0.2±0.2	0.01±0.01	-1.22±0.02	1.108±0.007	1.107±0.007	0.004±0.004	0.033±0.006
130.7	-1.7±0.3	0.2±0.2	0.01±0.01	-1.22±0.02	1.108±0.007	1.108±0.007	0.003±0.004	0.032±0.006
140.8	-1.7±0.3	0.0±0.2	0.01±0.01	-1.22±0.02	1.108±0.007	1.107±0.007	0.000±0.004	0.032±0.006

Table B.67 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-4.0±0.3	3.1±0.7	-0.86±0.01	-1.23±0.02	0.613±0.008	0.611±0.008	0.033±0.007	0.043±0.003
4.7	-3.8±0.3	1.1±0.6	-0.81±0.01	-1.22±0.02	0.642±0.007	0.640±0.007	0.012±0.007	0.043±0.004
5.7	-3.6±0.3	0.4±0.6	-0.78±0.01	-1.24±0.02	0.677±0.007	0.676±0.007	0.005±0.007	0.043±0.004
6.7	-3.5±0.3	0.3±0.5	-0.74±0.01	-1.23±0.02	0.700±0.007	0.698±0.007	0.003±0.006	0.043±0.004
7.7	-3.2±0.3	0.3±0.5	-0.71±0.01	-1.23±0.02	0.721±0.007	0.720±0.007	0.004±0.006	0.041±0.004
8.7	-3.1±0.3	0.2±0.5	-0.69±0.01	-1.23±0.02	0.734±0.007	0.733±0.007	0.003±0.006	0.040±0.004
9.8	-2.9±0.3	0.1±0.5	-0.67±0.01	-1.24±0.02	0.752±0.007	0.751±0.007	0.001±0.006	0.038±0.004
10.8	-2.8±0.3	0.3±0.4	-0.65±0.01	-1.24±0.02	0.769±0.007	0.768±0.007	0.004±0.006	0.038±0.004
11.8	-2.7±0.3	0.3±0.4	-0.64±0.01	-1.24±0.02	0.776±0.007	0.775±0.007	0.004±0.006	0.037±0.004
12.8	-2.6±0.3	0.3±0.4	-0.61±0.01	-1.23±0.02	0.785±0.007	0.784±0.007	0.004±0.006	0.036±0.004
13.8	-2.6±0.3	0.3±0.4	-0.60±0.01	-1.24±0.02	0.796±0.007	0.795±0.007	0.005±0.006	0.036±0.004
16.4	-2.4±0.3	0.3±0.4	-0.56±0.01	-1.23±0.02	0.820±0.007	0.819±0.007	0.005±0.005	0.035±0.005
18.9	-2.4±0.3	0.4±0.4	-0.53±0.01	-1.24±0.02	0.841±0.007	0.840±0.007	0.006±0.005	0.035±0.005
21.4	-2.5±0.3	0.4±0.3	-0.50±0.01	-1.23±0.02	0.859±0.007	0.858±0.007	0.006±0.005	0.037±0.005
24.0	-2.5±0.3	0.4±0.3	-0.46±0.01	-1.23±0.02	0.878±0.007	0.877±0.007	0.007±0.005	0.039±0.005
26.5	-2.6±0.3	0.4±0.3	-0.43±0.01	-1.24±0.02	0.899±0.007	0.899±0.007	0.007±0.005	0.040±0.005
29.1	-2.5±0.3	0.5±0.3	-0.40±0.01	-1.23±0.02	0.912±0.007	0.912±0.007	0.007±0.005	0.040±0.005
31.6	-2.6±0.3	0.4±0.3	-0.37±0.01	-1.24±0.02	0.928±0.007	0.927±0.006	0.007±0.005	0.041±0.005
34.1	-2.5±0.3	0.5±0.3	-0.35±0.01	-1.24±0.02	0.944±0.006	0.943±0.006	0.008±0.005	0.042±0.005
36.7	-2.6±0.3	0.5±0.3	-0.32±0.01	-1.24±0.02	0.959±0.007	0.958±0.006	0.008±0.005	0.044±0.005
39.2	-2.6±0.3	0.5±0.3	-0.29±0.01	-1.24±0.02	0.975±0.007	0.974±0.007	0.008±0.005	0.044±0.005
44.3	-2.6±0.3	0.6±0.3	-0.24±0.01	-1.24±0.02	0.999±0.007	0.998±0.007	0.010±0.004	0.046±0.006
49.4	-2.6±0.3	0.5±0.2	-0.20±0.01	-1.24±0.02	1.020±0.007	1.019±0.007	0.009±0.004	0.047±0.006
54.5	-2.6±0.3	0.5±0.2	-0.15±0.01	-1.23±0.02	1.037±0.007	1.036±0.007	0.009±0.004	0.048±0.006
59.5	-2.6±0.3	0.6±0.2	-0.12±0.01	-1.24±0.02	1.058±0.007	1.057±0.007	0.011±0.004	0.049±0.006
64.6	-2.6±0.3	0.5±0.2	-0.08±0.01	-1.23±0.02	1.073±0.007	1.072±0.007	0.010±0.004	0.049±0.006
69.7	-2.6±0.3	0.5±0.2	-0.05±0.01	-1.24±0.02	1.087±0.007	1.086±0.007	0.009±0.004	0.050±0.006
74.8	-2.6±0.3	0.4±0.2	-0.03±0.01	-1.23±0.02	1.098±0.007	1.096±0.007	0.008±0.004	0.050±0.006
79.9	-2.6±0.3	0.4±0.2	-0.01±0.01	-1.23±0.02	1.104±0.007	1.103±0.007	0.008±0.004	0.049±0.006
84.9	-2.5±0.3	0.4±0.2	0.00±0.01	-1.23±0.02	1.108±0.007	1.107±0.007	0.009±0.004	0.048±0.006
90.0	-2.5±0.3	0.4±0.2	0.00±0.01	-1.23±0.02	1.109±0.007	1.108±0.007	0.008±0.004	0.048±0.006
100.2	-2.4±0.3	0.4±0.2	0.01±0.01	-1.23±0.02	1.111±0.007	1.110±0.007	0.008±0.004	0.047±0.006
110.3	-2.3±0.3	0.3±0.2	0.01±0.01	-1.23±0.02	1.111±0.007	1.110±0.007	0.006±0.004	0.045±0.006
120.5	-2.3±0.3	0.2±0.2	0.01±0.01	-1.23±0.02	1.111±0.007	1.110±0.007	0.003±0.004	0.045±0.006
130.7	-2.3±0.3	0.1±0.2	0.01±0.01	-1.23±0.02	1.111±0.007	1.110±0.007	0.002±0.004	0.044±0.006
140.8	-2.2±0.3	0.0±0.2	0.01±0.01	-1.23±0.02	1.111±0.007	1.110±0.007	-0.001±0.004	0.043±0.006

Table B.68 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-114 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.6±0.3	2.8±0.8	-0.90±0.01	-1.23±0.02	0.570±0.008	0.569±0.008	0.028±0.008	0.025±0.003
4.7	-2.6±0.3	1.2±0.7	-0.87±0.01	-1.23±0.02	0.603±0.008	0.603±0.008	0.013±0.007	0.027±0.003
5.7	-2.4±0.3	0.4±0.6	-0.83±0.01	-1.23±0.02	0.630±0.007	0.630±0.007	0.005±0.007	0.027±0.003
6.7	-2.2±0.3	0.5±0.6	-0.80±0.01	-1.23±0.02	0.660±0.007	0.659±0.007	0.005±0.007	0.025±0.004
7.7	-2.2±0.3	0.4±0.6	-0.77±0.01	-1.23±0.02	0.680±0.007	0.680±0.007	0.004±0.007	0.026±0.004
8.7	-2.1±0.3	0.4±0.5	-0.75±0.01	-1.24±0.02	0.701±0.007	0.701±0.007	0.005±0.006	0.025±0.004
9.8	-1.8±0.3	0.4±0.5	-0.72±0.01	-1.23±0.02	0.715±0.007	0.714±0.007	0.005±0.006	0.023±0.004
10.8	-1.9±0.3	0.4±0.5	-0.70±0.01	-1.23±0.02	0.729±0.007	0.729±0.007	0.005±0.006	0.024±0.004
11.8	-1.9±0.3	0.4±0.5	-0.68±0.01	-1.23±0.02	0.742±0.007	0.742±0.007	0.006±0.006	0.024±0.004
12.8	-1.8±0.3	0.5±0.4	-0.67±0.01	-1.24±0.02	0.758±0.007	0.758±0.007	0.006±0.006	0.024±0.004
13.8	-1.8±0.3	0.5±0.4	-0.65±0.01	-1.24±0.02	0.768±0.007	0.768±0.007	0.007±0.006	0.025±0.004
16.4	-2.0±0.3	0.7±0.4	-0.61±0.01	-1.24±0.02	0.794±0.007	0.793±0.007	0.010±0.006	0.027±0.004
18.9	-2.1±0.3	0.7±0.4	-0.57±0.01	-1.23±0.02	0.814±0.007	0.813±0.007	0.011±0.005	0.030±0.004
21.4	-2.2±0.3	0.8±0.4	-0.55±0.01	-1.24±0.02	0.834±0.007	0.834±0.007	0.012±0.005	0.032±0.005
24.0	-2.3±0.3	0.8±0.3	-0.51±0.01	-1.25±0.02	0.858±0.007	0.857±0.007	0.012±0.005	0.035±0.005
26.5	-2.4±0.3	0.8±0.3	-0.47±0.01	-1.23±0.02	0.874±0.007	0.873±0.007	0.012±0.005	0.036±0.005
29.1	-2.5±0.3	0.8±0.3	-0.43±0.01	-1.23±0.02	0.895±0.007	0.894±0.007	0.012±0.005	0.038±0.005
31.6	-2.5±0.3	0.8±0.3	-0.40±0.01	-1.23±0.02	0.914±0.007	0.913±0.006	0.012±0.005	0.039±0.005
34.1	-2.5±0.3	0.8±0.3	-0.37±0.01	-1.23±0.02	0.928±0.006	0.927±0.006	0.013±0.005	0.040±0.005
36.7	-2.5±0.3	0.7±0.3	-0.34±0.01	-1.24±0.02	0.948±0.006	0.947±0.006	0.012±0.005	0.041±0.005
39.2	-2.5±0.3	0.7±0.3	-0.31±0.01	-1.23±0.02	0.960±0.006	0.959±0.006	0.012±0.005	0.041±0.005
44.3	-2.5±0.3	0.7±0.3	-0.27±0.01	-1.24±0.02	0.987±0.007	0.986±0.007	0.012±0.005	0.043±0.005
49.4	-2.5±0.3	0.7±0.3	-0.22±0.01	-1.24±0.02	1.010±0.007	1.009±0.007	0.012±0.004	0.043±0.006
54.5	-2.5±0.3	0.7±0.2	-0.17±0.01	-1.24±0.02	1.034±0.007	1.033±0.007	0.012±0.004	0.044±0.006
59.5	-2.4±0.3	0.7±0.2	-0.12±0.01	-1.23±0.02	1.052±0.007	1.051±0.007	0.012±0.004	0.044±0.006
64.6	-2.4±0.3	0.6±0.2	-0.10±0.01	-1.24±0.02	1.068±0.007	1.067±0.007	0.012±0.004	0.045±0.006
69.7	-2.5±0.3	0.6±0.2	-0.07±0.01	-1.24±0.02	1.084±0.007	1.083±0.007	0.012±0.004	0.047±0.006
74.8	-2.4±0.3	0.6±0.2	-0.03±0.01	-1.23±0.02	1.095±0.007	1.094±0.007	0.012±0.004	0.045±0.006
79.9	-2.3±0.3	0.6±0.2	-0.02±0.01	-1.23±0.02	1.103±0.007	1.102±0.007	0.011±0.004	0.044±0.006
84.9	-2.3±0.3	0.5±0.2	0.00±0.01	-1.23±0.02	1.107±0.007	1.106±0.007	0.010±0.004	0.045±0.006
90.0	-2.2±0.3	0.5±0.2	0.00±0.01	-1.23±0.02	1.110±0.007	1.109±0.007	0.011±0.004	0.043±0.006
100.2	-2.2±0.3	0.4±0.2	0.01±0.01	-1.23±0.02	1.111±0.007	1.110±0.007	0.009±0.004	0.043±0.006
110.3	-2.1±0.3	0.4±0.2	0.01±0.01	-1.23±0.02	1.111±0.007	1.110±0.007	0.007±0.004	0.041±0.006
120.5	-2.1±0.3	0.3±0.2	0.01±0.01	-1.23±0.02	1.111±0.007	1.110±0.007	0.006±0.004	0.041±0.006
130.7	-2.1±0.3	0.2±0.2	0.00±0.01	-1.23±0.02	1.112±0.007	1.111±0.007	0.004±0.004	0.040±0.006
140.8	-2.0±0.3	0.0±0.2	0.01±0.01	-1.23±0.02	1.112±0.007	1.111±0.007	0.000±0.004	0.039±0.006

Table B.69 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.0±0.3	3.2±0.9	-0.91±0.01	-1.21±0.02	0.549±0.008	0.547±0.008	0.031±0.008	0.019±0.003
4.7	-2.0±0.3	1.2±0.7	-0.87±0.01	-1.21±0.02	0.586±0.008	0.586±0.008	0.012±0.008	0.021±0.003
5.7	-2.0±0.3	0.5±0.7	-0.84±0.01	-1.21±0.02	0.613±0.008	0.613±0.008	0.006±0.007	0.021±0.003
6.7	-1.8±0.3	0.3±0.6	-0.81±0.01	-1.22±0.02	0.643±0.007	0.642±0.007	0.003±0.007	0.020±0.004
7.7	-1.8±0.3	0.3±0.6	-0.78±0.01	-1.22±0.02	0.665±0.007	0.665±0.007	0.004±0.007	0.021±0.004
8.7	-1.8±0.3	0.3±0.5	-0.75±0.01	-1.23±0.02	0.687±0.007	0.687±0.007	0.004±0.006	0.021±0.004
9.8	-1.7±0.3	0.3±0.5	-0.73±0.01	-1.22±0.02	0.700±0.007	0.700±0.007	0.004±0.006	0.021±0.004
10.8	-1.8±0.3	0.3±0.5	-0.70±0.01	-1.22±0.02	0.716±0.007	0.716±0.007	0.004±0.006	0.022±0.004
11.8	-1.7±0.3	0.4±0.5	-0.70±0.01	-1.23±0.02	0.731±0.007	0.730±0.007	0.005±0.006	0.022±0.004
12.8	-1.7±0.3	0.4±0.5	-0.67±0.01	-1.22±0.02	0.742±0.007	0.742±0.007	0.005±0.006	0.022±0.004
13.8	-1.9±0.3	0.4±0.4	-0.66±0.01	-1.23±0.02	0.754±0.007	0.754±0.007	0.006±0.006	0.024±0.004
16.4	-2.0±0.3	0.5±0.4	-0.63±0.01	-1.23±0.02	0.777±0.007	0.776±0.007	0.007±0.006	0.027±0.004
18.9	-2.3±0.3	0.8±0.4	-0.59±0.01	-1.23±0.02	0.796±0.007	0.795±0.007	0.011±0.006	0.031±0.004
21.4	-2.6±0.3	0.8±0.4	-0.55±0.01	-1.22±0.02	0.818±0.007	0.817±0.007	0.012±0.005	0.037±0.005
24.0	-2.8±0.3	0.8±0.4	-0.53±0.01	-1.23±0.02	0.837±0.007	0.836±0.007	0.012±0.005	0.041±0.005
26.5	-2.9±0.3	0.9±0.3	-0.48±0.01	-1.22±0.02	0.857±0.007	0.856±0.007	0.013±0.005	0.044±0.005
29.1	-3.1±0.3	0.9±0.3	-0.45±0.01	-1.22±0.02	0.878±0.007	0.876±0.007	0.014±0.005	0.047±0.005
31.6	-3.1±0.3	1.0±0.3	-0.42±0.01	-1.23±0.02	0.901±0.007	0.900±0.007	0.016±0.005	0.049±0.005
34.1	-3.2±0.3	1.0±0.3	-0.39±0.01	-1.23±0.02	0.919±0.007	0.917±0.006	0.016±0.005	0.051±0.005
36.7	-3.2±0.3	1.0±0.3	-0.35±0.01	-1.22±0.02	0.935±0.006	0.933±0.006	0.016±0.005	0.052±0.005
39.2	-3.2±0.3	1.0±0.3	-0.32±0.01	-1.22±0.02	0.949±0.006	0.947±0.006	0.016±0.005	0.052±0.005
44.3	-3.2±0.3	0.9±0.3	-0.27±0.01	-1.23±0.02	0.977±0.007	0.976±0.007	0.015±0.005	0.054±0.005
49.4	-3.1±0.3	0.8±0.3	-0.22±0.01	-1.22±0.02	1.001±0.007	0.999±0.007	0.013±0.004	0.054±0.006
54.5	-3.1±0.3	0.7±0.2	-0.18±0.01	-1.23±0.02	1.024±0.007	1.022±0.007	0.013±0.004	0.054±0.006
59.5	-3.1±0.3	0.7±0.2	-0.13±0.01	-1.22±0.02	1.040±0.007	1.038±0.007	0.012±0.004	0.055±0.006
64.6	-3.0±0.3	0.7±0.2	-0.10±0.01	-1.22±0.02	1.059±0.007	1.057±0.007	0.012±0.004	0.056±0.006
69.7	-3.0±0.3	0.7±0.2	-0.06±0.01	-1.21±0.02	1.074±0.007	1.072±0.007	0.012±0.004	0.056±0.006
74.8	-2.9±0.3	0.6±0.2	-0.04±0.01	-1.22±0.02	1.086±0.007	1.085±0.007	0.012±0.004	0.056±0.006
79.9	-2.8±0.3	0.6±0.2	-0.02±0.01	-1.21±0.02	1.094±0.007	1.093±0.007	0.011±0.004	0.054±0.006
84.9	-2.8±0.3	0.5±0.2	-0.01±0.01	-1.21±0.02	1.097±0.007	1.096±0.007	0.010±0.004	0.054±0.006
90.0	-2.7±0.3	0.5±0.2	0.00±0.01	-1.21±0.02	1.102±0.007	1.100±0.007	0.009±0.004	0.052±0.006
100.2	-2.7±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.103±0.007	1.102±0.007	0.008±0.004	0.052±0.006
110.3	-2.6±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.102±0.007	1.101±0.007	0.007±0.004	0.050±0.006
120.5	-2.6±0.3	0.2±0.2	0.01±0.01	-1.21±0.02	1.103±0.007	1.102±0.007	0.003±0.004	0.050±0.006
130.7	-2.6±0.3	0.1±0.2	0.00±0.01	-1.21±0.02	1.103±0.007	1.102±0.007	0.002±0.004	0.050±0.006
140.8	-2.5±0.3	0.0±0.2	0.00±0.01	-1.21±0.02	1.103±0.007	1.102±0.007	-0.001±0.004	0.048±0.006

Table B.70 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-95 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.4±0.3	3.0±0.8	-0.91±0.01	-1.22±0.02	0.551±0.008	0.550±0.008	0.029±0.008	0.013±0.003
4.7	-1.4±0.3	1.2±0.8	-0.88±0.01	-1.21±0.02	0.579±0.008	0.579±0.008	0.012±0.008	0.015±0.003
5.7	-1.4±0.3	0.5±0.7	-0.85±0.01	-1.22±0.02	0.612±0.008	0.612±0.008	0.005±0.007	0.015±0.003
6.7	-1.3±0.3	0.4±0.6	-0.82±0.01	-1.23±0.02	0.638±0.007	0.638±0.007	0.005±0.007	0.014±0.004
7.7	-1.3±0.3	0.3±0.6	-0.79±0.01	-1.23±0.02	0.658±0.007	0.658±0.007	0.004±0.007	0.015±0.004
8.7	-1.3±0.3	0.3±0.6	-0.77±0.01	-1.22±0.02	0.673±0.007	0.673±0.007	0.004±0.007	0.015±0.004
9.8	-1.2±0.3	0.4±0.5	-0.75±0.01	-1.23±0.02	0.696±0.007	0.695±0.007	0.005±0.006	0.015±0.004
10.8	-1.3±0.3	0.4±0.5	-0.72±0.01	-1.22±0.02	0.707±0.007	0.707±0.007	0.006±0.006	0.016±0.004
11.8	-1.3±0.3	0.5±0.5	-0.71±0.01	-1.23±0.02	0.720±0.007	0.720±0.007	0.006±0.006	0.016±0.004
12.8	-1.3±0.3	0.4±0.5	-0.69±0.01	-1.22±0.02	0.728±0.007	0.728±0.007	0.006±0.006	0.017±0.004
13.8	-1.4±0.3	0.6±0.5	-0.68±0.01	-1.23±0.02	0.742±0.007	0.742±0.007	0.007±0.006	0.018±0.004
16.4	-1.7±0.3	0.8±0.4	-0.63±0.01	-1.22±0.02	0.766±0.007	0.766±0.007	0.010±0.006	0.023±0.004
18.9	-2.0±0.3	0.9±0.4	-0.61±0.01	-1.23±0.02	0.787±0.007	0.786±0.007	0.012±0.006	0.028±0.004
21.4	-2.4±0.3	1.0±0.4	-0.56±0.01	-1.22±0.02	0.811±0.007	0.811±0.007	0.014±0.005	0.034±0.004
24.0	-2.6±0.3	1.0±0.4	-0.53±0.01	-1.22±0.02	0.828±0.007	0.827±0.007	0.014±0.005	0.038±0.005
26.5	-2.9±0.3	1.0±0.3	-0.49±0.01	-1.23±0.02	0.858±0.007	0.857±0.007	0.015±0.005	0.043±0.005
29.1	-3.0±0.3	1.0±0.3	-0.45±0.01	-1.22±0.02	0.877±0.007	0.876±0.007	0.016±0.005	0.046±0.005
31.6	-3.1±0.3	1.1±0.3	-0.42±0.01	-1.22±0.02	0.895±0.007	0.894±0.007	0.017±0.005	0.049±0.005
34.1	-3.1±0.3	1.1±0.3	-0.39±0.01	-1.22±0.02	0.914±0.006	0.912±0.006	0.017±0.005	0.049±0.005
36.7	-3.1±0.3	1.0±0.3	-0.35±0.01	-1.22±0.02	0.931±0.006	0.929±0.006	0.016±0.005	0.051±0.005
39.2	-3.2±0.3	1.0±0.3	-0.33±0.01	-1.23±0.02	0.948±0.006	0.946±0.006	0.016±0.005	0.053±0.005
44.3	-3.1±0.3	1.0±0.3	-0.27±0.01	-1.22±0.02	0.973±0.006	0.972±0.006	0.017±0.005	0.053±0.005
49.4	-3.0±0.3	0.9±0.3	-0.23±0.01	-1.22±0.02	0.997±0.007	0.995±0.007	0.016±0.004	0.053±0.006
54.5	-3.0±0.3	0.7±0.2	-0.18±0.01	-1.22±0.02	1.019±0.007	1.018±0.007	0.012±0.004	0.053±0.006
59.5	-3.0±0.3	0.7±0.2	-0.14±0.01	-1.22±0.02	1.038±0.007	1.037±0.007	0.012±0.004	0.054±0.006
64.6	-2.9±0.3	0.7±0.2	-0.11±0.01	-1.22±0.02	1.057±0.007	1.056±0.007	0.012±0.004	0.053±0.006
69.7	-2.8±0.3	0.6±0.2	-0.07±0.01	-1.21±0.02	1.071±0.007	1.070±0.007	0.012±0.004	0.053±0.006
74.8	-2.8±0.3	0.6±0.2	-0.04±0.01	-1.21±0.02	1.084±0.007	1.082±0.007	0.012±0.004	0.052±0.006
79.9	-2.8±0.3	0.6±0.2	-0.02±0.01	-1.21±0.02	1.092±0.007	1.090±0.007	0.011±0.004	0.052±0.006
84.9	-2.6±0.3	0.5±0.2	-0.01±0.01	-1.21±0.02	1.098±0.007	1.097±0.007	0.009±0.004	0.051±0.006
90.0	-2.6±0.3	0.4±0.2	0.00±0.01	-1.21±0.02	1.100±0.007	1.099±0.007	0.008±0.004	0.050±0.006
100.2	-2.5±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.102±0.007	1.101±0.007	0.007±0.004	0.049±0.006
110.3	-2.5±0.3	0.3±0.2	0.01±0.01	-1.21±0.02	1.102±0.007	1.101±0.007	0.006±0.004	0.047±0.006
120.5	-2.4±0.3	0.1±0.2	0.01±0.01	-1.21±0.02	1.103±0.007	1.102±0.007	0.002±0.004	0.047±0.006
130.7	-2.4±0.3	0.0±0.2	0.00±0.01	-1.21±0.02	1.103±0.007	1.102±0.007	-0.001±0.004	0.046±0.006
140.8	-2.3±0.3	0.0±0.2	0.00±0.01	-1.21±0.02	1.102±0.007	1.101±0.007	-0.001±0.004	0.045±0.006

Table B.71 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.8±0.3	3.0±0.9	-0.92±0.01	-1.21±0.02	0.538±0.008	0.537±0.008	0.029±0.008	0.008±0.003
4.7	-1.1±0.3	1.3±0.8	-0.89±0.01	-1.21±0.02	0.569±0.008	0.569±0.008	0.013±0.008	0.011±0.003
5.7	-1.2±0.3	0.6±0.7	-0.86±0.01	-1.21±0.02	0.594±0.008	0.594±0.008	0.006±0.007	0.012±0.003
6.7	-1.1±0.3	0.5±0.7	-0.83±0.01	-1.22±0.02	0.623±0.007	0.622±0.007	0.005±0.007	0.011±0.003
7.7	-1.1±0.3	0.5±0.6	-0.81±0.01	-1.22±0.02	0.643±0.007	0.643±0.007	0.005±0.007	0.012±0.004
8.7	-1.2±0.3	0.5±0.6	-0.78±0.01	-1.22±0.02	0.663±0.007	0.662±0.007	0.005±0.007	0.014±0.004
9.8	-1.3±0.3	0.6±0.6	-0.76±0.01	-1.21±0.02	0.673±0.007	0.673±0.007	0.007±0.007	0.015±0.004
10.8	-1.3±0.3	0.8±0.5	-0.75±0.01	-1.22±0.02	0.691±0.007	0.691±0.007	0.009±0.006	0.016±0.004
11.8	-1.5±0.3	0.8±0.5	-0.73±0.01	-1.22±0.02	0.701±0.007	0.701±0.007	0.010±0.006	0.019±0.004
12.8	-1.6±0.3	0.9±0.5	-0.71±0.01	-1.22±0.02	0.717±0.007	0.717±0.007	0.012±0.006	0.019±0.004
13.8	-1.7±0.3	0.9±0.5	-0.69±0.01	-1.22±0.02	0.727±0.007	0.726±0.007	0.012±0.006	0.022±0.004
16.4	-2.3±0.3	1.0±0.4	-0.66±0.01	-1.22±0.02	0.753±0.007	0.753±0.007	0.014±0.006	0.030±0.004
18.9	-2.7±0.3	1.1±0.4	-0.62±0.01	-1.22±0.02	0.776±0.007	0.775±0.007	0.015±0.006	0.036±0.004
21.4	-3.0±0.3	1.2±0.4	-0.58±0.01	-1.22±0.02	0.801±0.007	0.799±0.007	0.017±0.006	0.042±0.004
24.0	-3.4±0.3	1.1±0.4	-0.54±0.01	-1.22±0.02	0.825±0.007	0.824±0.007	0.016±0.005	0.049±0.005
26.5	-3.6±0.3	1.1±0.4	-0.50±0.01	-1.22±0.02	0.845±0.007	0.843±0.007	0.017±0.005	0.053±0.005
29.1	-3.8±0.3	1.1±0.3	-0.46±0.01	-1.23±0.02	0.873±0.006	0.871±0.006	0.016±0.005	0.057±0.005
31.6	-3.8±0.3	1.0±0.3	-0.43±0.01	-1.23±0.02	0.892±0.006	0.890±0.006	0.016±0.005	0.060±0.005
34.1	-3.8±0.3	1.1±0.3	-0.39±0.01	-1.22±0.02	0.913±0.006	0.911±0.006	0.017±0.005	0.061±0.005
36.7	-3.9±0.3	1.0±0.3	-0.36±0.01	-1.22±0.02	0.930±0.006	0.927±0.006	0.016±0.005	0.063±0.005
39.2	-3.9±0.3	1.0±0.3	-0.33±0.01	-1.22±0.02	0.944±0.006	0.942±0.006	0.016±0.005	0.064±0.005
44.3	-3.8±0.3	0.9±0.3	-0.26±0.01	-1.20±0.02	0.970±0.006	0.967±0.006	0.016±0.005	0.064±0.005
49.4	-3.7±0.3	0.8±0.3	-0.23±0.01	-1.22±0.02	0.996±0.006	0.994±0.006	0.014±0.004	0.064±0.006
54.5	-3.7±0.3	0.7±0.2	-0.18±0.01	-1.21±0.02	1.015±0.007	1.013±0.006	0.013±0.004	0.065±0.006
59.5	-3.6±0.3	0.7±0.2	-0.14±0.01	-1.22±0.02	1.038±0.007	1.036±0.007	0.012±0.004	0.065±0.006
64.6	-3.5±0.3	0.6±0.2	-0.10±0.01	-1.21±0.02	1.054±0.007	1.052±0.007	0.011±0.004	0.064±0.006
69.7	-3.4±0.3	0.6±0.2	-0.06±0.01	-1.21±0.02	1.070±0.007	1.068±0.007	0.011±0.004	0.064±0.006
74.8	-3.4±0.3	0.5±0.2	-0.04±0.01	-1.21±0.02	1.082±0.007	1.080±0.007	0.010±0.004	0.064±0.006
79.9	-3.3±0.3	0.5±0.2	-0.02±0.01	-1.21±0.02	1.091±0.007	1.089±0.007	0.009±0.004	0.063±0.006
84.9	-3.3±0.3	0.4±0.2	-0.01±0.01	-1.21±0.02	1.096±0.007	1.094±0.007	0.009±0.004	0.062±0.006
90.0	-3.2±0.3	0.4±0.2	0.00±0.01	-1.21±0.02	1.099±0.007	1.097±0.007	0.008±0.004	0.061±0.006
100.2	-3.1±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.100±0.007	1.099±0.007	0.007±0.004	0.060±0.006
110.3	-3.1±0.3	0.2±0.2	0.01±0.01	-1.21±0.02	1.101±0.007	1.099±0.007	0.004±0.004	0.059±0.006
120.5	-3.0±0.3	0.0±0.2	0.01±0.01	-1.21±0.02	1.101±0.007	1.099±0.007	0.000±0.004	0.058±0.006
130.7	-2.9±0.3	-0.1±0.2	0.01±0.01	-1.21±0.02	1.102±0.007	1.100±0.007	-0.002±0.004	0.056±0.006
140.8	-2.9±0.3	-0.2±0.2	0.00±0.01	-1.21±0.02	1.102±0.007	1.101±0.007	-0.003±0.004	0.055±0.006

Table B.72 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-83 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.2±0.3	3.6±0.9	-0.92±0.01	-1.20±0.02	0.530±0.008	0.529±0.008	0.033±0.008	-0.002±0.003
4.7	-0.1±0.3	1.5±0.8	-0.88±0.01	-1.20±0.02	0.565±0.008	0.565±0.008	0.015±0.008	0.001±0.003
5.7	-0.2±0.3	1.1±0.7	-0.85±0.01	-1.20±0.02	0.597±0.008	0.596±0.008	0.012±0.007	0.002±0.003
6.7	-0.4±0.3	1.0±0.7	-0.82±0.01	-1.20±0.02	0.618±0.008	0.617±0.008	0.010±0.007	0.005±0.003
7.7	-0.6±0.3	1.0±0.6	-0.79±0.01	-1.20±0.02	0.638±0.007	0.638±0.007	0.011±0.007	0.006±0.004
8.7	-0.7±0.3	1.0±0.6	-0.77±0.01	-1.21±0.02	0.659±0.007	0.659±0.007	0.012±0.007	0.008±0.004
9.8	-0.9±0.3	1.0±0.6	-0.76±0.01	-1.21±0.02	0.672±0.007	0.671±0.007	0.012±0.007	0.010±0.004
10.8	-1.1±0.3	1.0±0.5	-0.74±0.01	-1.20±0.02	0.684±0.007	0.684±0.007	0.013±0.006	0.013±0.004
11.8	-1.3±0.3	1.3±0.5	-0.72±0.01	-1.20±0.02	0.697±0.007	0.696±0.007	0.016±0.006	0.015±0.004
12.8	-1.6±0.3	1.3±0.5	-0.70±0.01	-1.20±0.02	0.705±0.007	0.704±0.007	0.016±0.006	0.020±0.004
13.8	-1.8±0.3	1.3±0.5	-0.69±0.01	-1.21±0.02	0.719±0.007	0.718±0.007	0.017±0.006	0.023±0.004
16.4	-2.6±0.3	1.4±0.5	-0.65±0.01	-1.20±0.02	0.741±0.007	0.740±0.007	0.018±0.006	0.033±0.004
18.9	-3.2±0.3	1.3±0.4	-0.62±0.01	-1.20±0.02	0.762±0.007	0.760±0.007	0.017±0.006	0.042±0.004
21.4	-3.7±0.3	1.2±0.4	-0.59±0.01	-1.21±0.02	0.788±0.007	0.786±0.007	0.017±0.006	0.050±0.004
24.0	-4.0±0.3	1.2±0.4	-0.54±0.01	-1.20±0.02	0.814±0.007	0.811±0.007	0.016±0.005	0.057±0.005
26.5	-4.2±0.3	1.0±0.4	-0.49±0.01	-1.20±0.02	0.840±0.007	0.837±0.007	0.015±0.005	0.062±0.005
29.1	-4.4±0.3	1.0±0.3	-0.46±0.01	-1.21±0.02	0.864±0.007	0.862±0.007	0.015±0.005	0.066±0.005
31.6	-4.5±0.3	1.0±0.3	-0.42±0.01	-1.20±0.02	0.883±0.007	0.880±0.006	0.016±0.005	0.069±0.005
34.1	-4.4±0.3	1.0±0.3	-0.38±0.01	-1.20±0.02	0.906±0.006	0.903±0.006	0.016±0.005	0.069±0.005
36.7	-4.4±0.3	1.0±0.3	-0.35±0.01	-1.20±0.02	0.920±0.006	0.917±0.006	0.015±0.005	0.070±0.005
39.2	-4.4±0.3	0.9±0.3	-0.32±0.01	-1.19±0.02	0.937±0.006	0.934±0.006	0.015±0.005	0.071±0.005
44.3	-4.3±0.3	0.7±0.3	-0.26±0.01	-1.20±0.02	0.966±0.006	0.963±0.006	0.013±0.005	0.072±0.005
49.4	-4.2±0.3	0.7±0.3	-0.21±0.01	-1.19±0.02	0.989±0.006	0.986±0.006	0.012±0.004	0.073±0.005
54.5	-4.1±0.3	0.7±0.2	-0.17±0.01	-1.19±0.02	1.009±0.007	1.006±0.007	0.012±0.004	0.073±0.006
59.5	-4.0±0.3	0.7±0.2	-0.14±0.01	-1.20±0.02	1.029±0.007	1.026±0.007	0.012±0.004	0.072±0.006
64.6	-4.0±0.3	0.6±0.2	-0.10±0.01	-1.19±0.02	1.047±0.007	1.045±0.007	0.011±0.004	0.073±0.006
69.7	-3.9±0.3	0.5±0.2	-0.06±0.01	-1.19±0.02	1.062±0.007	1.060±0.007	0.009±0.004	0.072±0.006
74.8	-3.8±0.3	0.4±0.2	-0.04±0.01	-1.19±0.02	1.074±0.007	1.072±0.007	0.008±0.004	0.071±0.006
79.9	-3.7±0.3	0.4±0.2	-0.02±0.01	-1.19±0.02	1.082±0.007	1.080±0.007	0.008±0.004	0.071±0.006
84.9	-3.6±0.3	0.4±0.2	-0.01±0.01	-1.19±0.02	1.087±0.007	1.085±0.007	0.007±0.004	0.069±0.006
90.0	-3.6±0.3	0.4±0.2	0.00±0.01	-1.19±0.02	1.089±0.007	1.087±0.007	0.007±0.004	0.068±0.006
100.2	-3.5±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.089±0.007	0.005±0.004	0.067±0.006
110.3	-3.6±0.3	0.2±0.2	0.00±0.01	-1.18±0.02	1.090±0.007	1.088±0.007	0.003±0.004	0.068±0.006
120.5	-3.5±0.3	0.0±0.2	0.01±0.01	-1.19±0.02	1.092±0.007	1.090±0.007	-0.001±0.004	0.066±0.006
130.7	-3.3±0.3	-0.2±0.2	0.00±0.01	-1.19±0.02	1.091±0.007	1.089±0.007	-0.004±0.004	0.063±0.006
140.8	-3.2±0.3	-0.2±0.2	0.00±0.01	-1.19±0.02	1.092±0.007	1.090±0.007	-0.004±0.004	0.062±0.006

Table B.73 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.1±0.3	3.6±0.8	-0.88±0.01	-1.20±0.02	0.567±0.008	0.565±0.008	0.036±0.008	-0.021±0.003
4.7	1.6±0.3	1.8±0.7	-0.84±0.01	-1.20±0.02	0.599±0.008	0.598±0.008	0.019±0.007	-0.017±0.003
5.7	1.4±0.3	1.1±0.6	-0.81±0.01	-1.20±0.02	0.630±0.007	0.629±0.007	0.012±0.007	-0.015±0.003
6.7	0.9±0.3	1.1±0.6	-0.78±0.01	-1.20±0.02	0.652±0.007	0.652±0.007	0.012±0.007	-0.011±0.004
7.7	0.7±0.3	1.0±0.6	-0.76±0.01	-1.21±0.02	0.670±0.007	0.670±0.007	0.012±0.007	-0.008±0.004
8.7	0.2±0.3	1.1±0.6	-0.74±0.01	-1.21±0.02	0.682±0.007	0.682±0.007	0.013±0.007	-0.003±0.004
9.8	0.0±0.3	1.2±0.5	-0.73±0.01	-1.21±0.02	0.693±0.007	0.693±0.007	0.014±0.006	0.000±0.004
10.8	-0.5±0.3	1.3±0.5	-0.71±0.01	-1.21±0.02	0.702±0.007	0.702±0.007	0.016±0.006	0.006±0.004
11.8	-0.9±0.3	1.4±0.5	-0.70±0.01	-1.21±0.02	0.713±0.007	0.713±0.007	0.017±0.006	0.012±0.004
12.8	-1.2±0.3	1.4±0.5	-0.69±0.01	-1.21±0.02	0.717±0.007	0.717±0.007	0.018±0.006	0.015±0.004
13.8	-1.7±0.3	1.4±0.5	-0.68±0.01	-1.21±0.02	0.724±0.007	0.723±0.007	0.018±0.006	0.022±0.004
16.4	-2.7±0.3	1.4±0.5	-0.66±0.01	-1.21±0.02	0.740±0.007	0.739±0.007	0.018±0.006	0.035±0.004
18.9	-3.5±0.3	1.2±0.4	-0.63±0.01	-1.21±0.02	0.759±0.007	0.757±0.007	0.016±0.006	0.047±0.004
21.4	-4.1±0.3	0.9±0.4	-0.60±0.01	-1.21±0.02	0.782±0.007	0.780±0.007	0.012±0.006	0.056±0.004
24.0	-4.5±0.3	0.8±0.4	-0.56±0.01	-1.20±0.02	0.802±0.007	0.800±0.007	0.012±0.006	0.063±0.004
26.5	-4.7±0.3	0.8±0.4	-0.52±0.01	-1.21±0.02	0.832±0.007	0.829±0.007	0.012±0.005	0.068±0.005
29.1	-4.8±0.3	0.8±0.3	-0.47±0.01	-1.21±0.02	0.857±0.007	0.854±0.007	0.012±0.005	0.072±0.005
31.6	-4.9±0.3	0.8±0.3	-0.42±0.01	-1.19±0.02	0.879±0.007	0.876±0.007	0.012±0.005	0.075±0.005
34.1	-4.9±0.3	0.8±0.3	-0.38±0.01	-1.20±0.02	0.903±0.007	0.900±0.006	0.012±0.005	0.077±0.005
36.7	-4.8±0.3	0.8±0.3	-0.35±0.01	-1.20±0.02	0.920±0.007	0.917±0.006	0.012±0.005	0.077±0.005
39.2	-4.8±0.3	0.7±0.3	-0.33±0.01	-1.21±0.02	0.935±0.006	0.932±0.006	0.012±0.005	0.077±0.005
44.3	-4.7±0.3	0.7±0.3	-0.27±0.01	-1.20±0.02	0.964±0.007	0.960±0.006	0.012±0.005	0.079±0.005
49.4	-4.5±0.3	0.7±0.3	-0.22±0.01	-1.19±0.02	0.987±0.007	0.983±0.007	0.012±0.005	0.077±0.005
54.5	-4.4±0.3	0.7±0.3	-0.18±0.01	-1.19±0.02	1.006±0.007	1.003±0.007	0.012±0.004	0.077±0.006
59.5	-4.3±0.3	0.7±0.2	-0.14±0.01	-1.20±0.02	1.029±0.007	1.026±0.007	0.012±0.004	0.077±0.006
64.6	-4.3±0.3	0.5±0.2	-0.10±0.01	-1.19±0.02	1.046±0.007	1.043±0.007	0.010±0.004	0.078±0.006
69.7	-4.1±0.3	0.4±0.2	-0.06±0.01	-1.19±0.02	1.062±0.007	1.059±0.007	0.008±0.004	0.077±0.006
74.8	-4.0±0.3	0.4±0.2	-0.04±0.01	-1.19±0.02	1.073±0.007	1.071±0.007	0.008±0.004	0.075±0.006
79.9	-4.0±0.3	0.4±0.2	-0.02±0.01	-1.19±0.02	1.081±0.007	1.079±0.007	0.008±0.004	0.075±0.006
84.9	-3.9±0.3	0.4±0.2	0.00±0.01	-1.18±0.02	1.086±0.007	1.083±0.007	0.008±0.004	0.074±0.006
90.0	-3.9±0.3	0.4±0.2	0.00±0.01	-1.19±0.02	1.089±0.007	1.086±0.007	0.007±0.004	0.073±0.006
100.2	-3.7±0.3	0.2±0.2	0.00±0.01	-1.18±0.02	1.091±0.007	1.088±0.007	0.005±0.004	0.071±0.006
110.3	-3.7±0.3	0.1±0.2	0.00±0.01	-1.18±0.02	1.090±0.007	1.088±0.007	0.003±0.004	0.071±0.006
120.5	-3.6±0.3	0.0±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.088±0.007	0.000±0.004	0.069±0.006
130.7	-3.6±0.3	-0.2±0.2	0.00±0.01	-1.18±0.02	1.089±0.007	1.087±0.007	-0.004±0.004	0.068±0.006
140.8	-3.4±0.3	-0.3±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.088±0.007	-0.006±0.004	0.065±0.006

Table B.74 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.7±0.3	3.2±0.7	-0.82±0.01	-1.19±0.02	0.613±0.008	0.611±0.008	0.035±0.007	-0.029±0.003
4.7	2.2±0.3	1.6±0.6	-0.78±0.01	-1.20±0.02	0.649±0.007	0.648±0.007	0.019±0.007	-0.025±0.004
5.7	1.9±0.3	1.0±0.6	-0.74±0.01	-1.20±0.02	0.677±0.007	0.677±0.007	0.012±0.007	-0.022±0.004
6.7	1.3±0.3	1.0±0.5	-0.72±0.01	-1.20±0.02	0.692±0.007	0.692±0.007	0.012±0.006	-0.016±0.004
7.7	0.9±0.3	0.9±0.5	-0.70±0.01	-1.20±0.02	0.708±0.007	0.708±0.007	0.012±0.006	-0.011±0.004
8.7	0.5±0.3	0.9±0.5	-0.68±0.01	-1.20±0.02	0.720±0.007	0.720±0.007	0.011±0.006	-0.006±0.004
9.8	0.0±0.3	0.9±0.5	-0.68±0.01	-1.20±0.02	0.726±0.007	0.726±0.007	0.012±0.006	0.000±0.004
10.8	-0.5±0.3	0.9±0.5	-0.68±0.01	-1.21±0.02	0.733±0.007	0.733±0.007	0.012±0.006	0.006±0.004
11.8	-1.0±0.3	0.9±0.5	-0.66±0.01	-1.21±0.02	0.738±0.007	0.737±0.007	0.012±0.006	0.012±0.004
12.8	-1.4±0.3	0.9±0.5	-0.66±0.01	-1.22±0.02	0.743±0.007	0.743±0.007	0.011±0.006	0.019±0.004
13.8	-1.9±0.3	0.8±0.5	-0.66±0.01	-1.21±0.02	0.743±0.007	0.742±0.007	0.010±0.006	0.025±0.004
16.4	-2.9±0.3	0.7±0.4	-0.64±0.01	-1.21±0.02	0.756±0.007	0.755±0.007	0.009±0.006	0.038±0.004
18.9	-3.8±0.3	0.5±0.4	-0.62±0.01	-1.21±0.02	0.772±0.007	0.770±0.007	0.006±0.006	0.052±0.004
21.4	-4.4±0.3	0.5±0.4	-0.58±0.01	-1.22±0.02	0.796±0.007	0.793±0.007	0.006±0.006	0.061±0.004
24.0	-4.7±0.3	0.4±0.4	-0.53±0.01	-1.21±0.02	0.820±0.007	0.817±0.007	0.006±0.005	0.068±0.005
26.5	-5.0±0.3	0.4±0.4	-0.49±0.01	-1.20±0.02	0.842±0.007	0.838±0.007	0.006±0.005	0.073±0.005
29.1	-5.1±0.3	0.4±0.3	-0.45±0.01	-1.20±0.02	0.867±0.007	0.864±0.006	0.007±0.005	0.077±0.005
31.6	-5.1±0.3	0.5±0.3	-0.41±0.01	-1.20±0.02	0.886±0.006	0.883±0.006	0.007±0.005	0.079±0.005
34.1	-5.1±0.3	0.5±0.3	-0.38±0.01	-1.20±0.02	0.907±0.006	0.903±0.006	0.008±0.005	0.081±0.005
36.7	-5.0±0.3	0.6±0.3	-0.34±0.01	-1.20±0.02	0.926±0.006	0.922±0.006	0.009±0.005	0.081±0.005
39.2	-5.0±0.3	0.6±0.3	-0.32±0.01	-1.21±0.02	0.943±0.006	0.940±0.006	0.009±0.005	0.082±0.005
44.3	-4.9±0.3	0.6±0.3	-0.26±0.01	-1.19±0.02	0.963±0.006	0.960±0.006	0.010±0.005	0.082±0.005
49.4	-4.8±0.3	0.6±0.3	-0.21±0.01	-1.20±0.02	0.990±0.006	0.987±0.006	0.010±0.004	0.083±0.005
54.5	-4.6±0.3	0.6±0.2	-0.17±0.01	-1.19±0.02	1.009±0.006	1.006±0.006	0.010±0.004	0.082±0.006
59.5	-4.5±0.3	0.5±0.2	-0.13±0.01	-1.18±0.02	1.029±0.007	1.026±0.007	0.009±0.004	0.081±0.006
64.6	-4.5±0.3	0.4±0.2	-0.10±0.01	-1.19±0.02	1.044±0.007	1.041±0.007	0.008±0.004	0.081±0.006
69.7	-4.4±0.3	0.4±0.2	-0.07±0.01	-1.19±0.02	1.061±0.007	1.058±0.007	0.008±0.004	0.082±0.006
74.8	-4.3±0.3	0.4±0.2	-0.04±0.01	-1.19±0.02	1.074±0.007	1.071±0.007	0.008±0.004	0.081±0.006
79.9	-4.2±0.3	0.4±0.2	-0.02±0.01	-1.19±0.02	1.081±0.007	1.078±0.007	0.007±0.004	0.080±0.006
84.9	-4.1±0.3	0.4±0.2	0.00±0.01	-1.18±0.02	1.085±0.007	1.083±0.007	0.007±0.004	0.078±0.006
90.0	-4.1±0.3	0.2±0.2	0.00±0.01	-1.18±0.02	1.088±0.007	1.085±0.007	0.005±0.004	0.077±0.006
100.2	-4.0±0.3	0.2±0.2	0.00±0.01	-1.18±0.02	1.090±0.007	1.087±0.007	0.003±0.004	0.075±0.006
110.3	-3.9±0.3	0.0±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.087±0.007	0.000±0.004	0.074±0.006
120.5	-3.9±0.3	0.0±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.087±0.007	-0.001±0.004	0.075±0.006
130.7	-3.8±0.3	-0.2±0.2	0.00±0.01	-1.18±0.02	1.089±0.007	1.086±0.007	-0.004±0.004	0.072±0.006
140.8	-3.6±0.3	-0.3±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.088±0.007	-0.005±0.004	0.069±0.006

Table B.75 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.8±0.3	3.2±0.6	-0.76±0.01	-1.18±0.02	0.650±0.007	0.648±0.007	0.037±0.007	-0.031±0.004
4.7	2.2±0.3	1.4±0.5	-0.72±0.01	-1.20±0.02	0.693±0.007	0.692±0.007	0.017±0.006	-0.026±0.004
5.7	1.8±0.3	0.9±0.5	-0.68±0.01	-1.20±0.02	0.721±0.007	0.721±0.007	0.011±0.006	-0.023±0.004
6.7	1.4±0.3	0.5±0.5	-0.64±0.01	-1.19±0.02	0.742±0.007	0.742±0.007	0.006±0.006	-0.018±0.004
7.7	0.8±0.3	0.5±0.5	-0.63±0.01	-1.19±0.02	0.748±0.007	0.748±0.007	0.006±0.006	-0.011±0.004
8.7	0.4±0.3	0.4±0.4	-0.63±0.01	-1.20±0.02	0.755±0.007	0.755±0.007	0.005±0.006	-0.005±0.004
9.8	-0.2±0.3	0.4±0.4	-0.62±0.01	-1.19±0.02	0.761±0.007	0.761±0.007	0.005±0.006	0.003±0.004
10.8	-0.6±0.3	0.3±0.4	-0.62±0.01	-1.20±0.02	0.761±0.007	0.761±0.007	0.005±0.006	0.008±0.004
11.8	-1.1±0.3	0.3±0.4	-0.62±0.01	-1.21±0.02	0.765±0.007	0.765±0.007	0.004±0.006	0.015±0.004
12.8	-1.5±0.3	0.3±0.4	-0.61±0.01	-1.20±0.02	0.764±0.007	0.764±0.007	0.003±0.006	0.020±0.004
13.8	-2.0±0.3	0.3±0.4	-0.61±0.01	-1.20±0.02	0.770±0.007	0.770±0.007	0.004±0.006	0.027±0.004
16.4	-3.1±0.3	0.0±0.4	-0.60±0.01	-1.20±0.02	0.777±0.007	0.776±0.007	0.000±0.006	0.042±0.004
18.9	-3.8±0.3	-0.1±0.4	-0.57±0.01	-1.20±0.02	0.790±0.007	0.789±0.007	-0.001±0.006	0.053±0.004
21.4	-4.4±0.3	-0.1±0.4	-0.54±0.01	-1.19±0.02	0.810±0.007	0.807±0.007	-0.002±0.005	0.063±0.004
24.0	-4.8±0.3	0.0±0.4	-0.50±0.01	-1.19±0.02	0.830±0.007	0.827±0.007	0.000±0.005	0.070±0.005
26.5	-5.0±0.3	0.0±0.3	-0.46±0.01	-1.19±0.02	0.857±0.007	0.853±0.006	0.000±0.005	0.074±0.005
29.1	-5.2±0.3	0.1±0.3	-0.43±0.01	-1.19±0.02	0.876±0.006	0.873±0.006	0.002±0.005	0.079±0.005
31.6	-5.2±0.3	0.2±0.3	-0.39±0.01	-1.19±0.02	0.892±0.006	0.889±0.006	0.004±0.005	0.081±0.005
34.1	-5.2±0.3	0.4±0.3	-0.36±0.01	-1.20±0.02	0.914±0.006	0.910±0.006	0.006±0.005	0.082±0.005
36.7	-5.2±0.3	0.4±0.3	-0.33±0.01	-1.18±0.02	0.927±0.006	0.923±0.006	0.006±0.005	0.084±0.005
39.2	-5.1±0.3	0.4±0.3	-0.31±0.01	-1.19±0.02	0.942±0.006	0.938±0.006	0.007±0.005	0.084±0.005
44.3	-5.0±0.3	0.4±0.3	-0.25±0.01	-1.19±0.02	0.967±0.006	0.963±0.006	0.007±0.005	0.085±0.005
49.4	-4.9±0.3	0.4±0.3	-0.21±0.01	-1.19±0.02	0.987±0.006	0.984±0.006	0.008±0.004	0.085±0.005
54.5	-4.8±0.3	0.4±0.2	-0.16±0.01	-1.18±0.02	1.010±0.006	1.006±0.006	0.008±0.004	0.085±0.006
59.5	-4.8±0.3	0.4±0.2	-0.12±0.01	-1.18±0.02	1.027±0.007	1.024±0.007	0.008±0.004	0.086±0.006
64.6	-4.7±0.3	0.4±0.2	-0.09±0.01	-1.18±0.02	1.044±0.007	1.041±0.007	0.008±0.004	0.085±0.006
69.7	-4.5±0.3	0.4±0.2	-0.06±0.01	-1.18±0.02	1.057±0.007	1.054±0.007	0.007±0.004	0.083±0.006
74.8	-4.4±0.3	0.4±0.2	-0.03±0.01	-1.18±0.02	1.069±0.007	1.065±0.007	0.007±0.004	0.083±0.006
79.9	-4.4±0.3	0.4±0.2	-0.01±0.01	-1.17±0.02	1.076±0.007	1.073±0.007	0.007±0.004	0.083±0.006
84.9	-4.3±0.3	0.3±0.2	-0.01±0.01	-1.18±0.02	1.082±0.007	1.079±0.007	0.007±0.004	0.082±0.006
90.0	-4.2±0.3	0.2±0.2	0.00±0.01	-1.17±0.02	1.084±0.007	1.081±0.007	0.004±0.004	0.080±0.006
100.2	-4.1±0.3	0.2±0.2	0.00±0.01	-1.17±0.02	1.084±0.007	1.082±0.007	0.003±0.004	0.077±0.006
110.3	-4.1±0.3	0.0±0.2	0.00±0.01	-1.17±0.02	1.084±0.007	1.081±0.007	-0.001±0.004	0.077±0.006
120.5	-4.1±0.3	-0.1±0.2	0.00±0.01	-1.17±0.02	1.084±0.007	1.081±0.007	-0.002±0.004	0.077±0.006
130.7	-3.9±0.3	-0.2±0.2	0.00±0.01	-1.17±0.02	1.084±0.007	1.082±0.007	-0.004±0.004	0.074±0.006
140.8	-3.8±0.3	-0.4±0.2	0.00±0.01	-1.18±0.02	1.086±0.007	1.083±0.007	-0.008±0.004	0.071±0.006

Table B.76 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.3±0.3	3.1±0.6	-0.73±0.01	-1.17±0.02	0.666±0.007	0.664±0.007	0.035±0.007	-0.027±0.004
4.7	1.6±0.3	1.1±0.5	-0.67±0.01	-1.18±0.02	0.711±0.007	0.710±0.007	0.014±0.006	-0.020±0.004
5.7	1.3±0.3	0.4±0.5	-0.64±0.01	-1.19±0.02	0.742±0.007	0.741±0.007	0.006±0.006	-0.017±0.004
6.7	0.8±0.3	0.3±0.4	-0.61±0.01	-1.19±0.02	0.763±0.007	0.763±0.007	0.004±0.006	-0.011±0.004
7.7	0.4±0.3	0.3±0.4	-0.59±0.01	-1.19±0.02	0.776±0.007	0.776±0.007	0.005±0.006	-0.006±0.004
8.7	-0.1±0.3	0.2±0.4	-0.58±0.01	-1.19±0.02	0.785±0.007	0.785±0.007	0.003±0.006	0.002±0.004
9.8	-0.5±0.3	0.1±0.4	-0.57±0.01	-1.19±0.02	0.787±0.007	0.787±0.007	0.001±0.006	0.007±0.004
10.8	-1.0±0.3	0.0±0.4	-0.57±0.01	-1.19±0.02	0.784±0.007	0.784±0.007	-0.001±0.006	0.014±0.004
11.8	-1.4±0.3	-0.1±0.4	-0.57±0.01	-1.19±0.02	0.788±0.007	0.787±0.007	-0.001±0.006	0.020±0.004
12.8	-1.7±0.3	-0.1±0.4	-0.57±0.01	-1.19±0.02	0.789±0.007	0.789±0.007	-0.001±0.006	0.024±0.004
13.8	-2.3±0.3	-0.1±0.4	-0.56±0.01	-1.18±0.02	0.787±0.007	0.787±0.007	-0.002±0.006	0.031±0.004
16.4	-3.1±0.3	-0.4±0.4	-0.55±0.01	-1.19±0.02	0.798±0.007	0.797±0.007	-0.006±0.006	0.043±0.004
18.9	-3.9±0.3	-0.4±0.4	-0.53±0.01	-1.19±0.02	0.808±0.007	0.807±0.007	-0.006±0.005	0.055±0.004
21.4	-4.4±0.3	-0.4±0.4	-0.50±0.01	-1.19±0.02	0.832±0.007	0.829±0.007	-0.005±0.005	0.064±0.005
24.0	-4.8±0.3	-0.3±0.4	-0.48±0.01	-1.19±0.02	0.845±0.007	0.842±0.007	-0.005±0.005	0.071±0.005
26.5	-5.0±0.3	-0.1±0.3	-0.44±0.01	-1.19±0.02	0.864±0.006	0.861±0.006	-0.002±0.005	0.075±0.005
29.1	-5.2±0.3	0.0±0.3	-0.40±0.01	-1.17±0.02	0.881±0.006	0.877±0.006	0.000±0.005	0.079±0.005
31.6	-5.2±0.3	0.1±0.3	-0.37±0.01	-1.18±0.02	0.898±0.006	0.894±0.006	0.001±0.005	0.082±0.005
34.1	-5.2±0.3	0.1±0.3	-0.35±0.01	-1.18±0.02	0.913±0.006	0.910±0.006	0.002±0.005	0.083±0.005
36.7	-5.3±0.3	0.3±0.3	-0.33±0.01	-1.17±0.02	0.919±0.006	0.915±0.006	0.004±0.005	0.085±0.005
39.2	-5.2±0.3	0.3±0.3	-0.30±0.01	-1.18±0.02	0.938±0.006	0.934±0.006	0.006±0.005	0.086±0.005
44.3	-5.2±0.3	0.4±0.3	-0.25±0.01	-1.19±0.02	0.966±0.006	0.962±0.006	0.007±0.005	0.087±0.005
49.4	-5.1±0.3	0.4±0.3	-0.20±0.01	-1.17±0.02	0.984±0.006	0.980±0.006	0.007±0.004	0.088±0.005
54.5	-5.0±0.3	0.4±0.2	-0.16±0.01	-1.18±0.02	1.008±0.006	1.004±0.006	0.007±0.004	0.088±0.006
59.5	-5.0±0.3	0.4±0.2	-0.12±0.01	-1.17±0.02	1.021±0.007	1.018±0.006	0.007±0.004	0.088±0.006
64.6	-4.9±0.3	0.4±0.2	-0.10±0.01	-1.18±0.02	1.039±0.007	1.036±0.007	0.007±0.004	0.088±0.006
69.7	-4.8±0.3	0.4±0.2	-0.06±0.01	-1.17±0.02	1.052±0.007	1.048±0.007	0.007±0.004	0.088±0.006
74.8	-4.7±0.3	0.4±0.2	-0.03±0.01	-1.16±0.02	1.063±0.007	1.059±0.007	0.007±0.004	0.087±0.006
79.9	-4.6±0.3	0.3±0.2	-0.02±0.01	-1.16±0.02	1.071±0.007	1.067±0.007	0.006±0.004	0.086±0.006
84.9	-4.5±0.3	0.4±0.2	-0.01±0.01	-1.17±0.02	1.077±0.007	1.074±0.007	0.007±0.004	0.085±0.006
90.0	-4.4±0.3	0.2±0.2	0.00±0.01	-1.16±0.02	1.078±0.007	1.074±0.007	0.003±0.004	0.083±0.006
100.2	-4.3±0.3	0.0±0.2	0.00±0.01	-1.16±0.02	1.079±0.007	1.076±0.007	0.000±0.004	0.082±0.006
110.3	-4.2±0.3	-0.1±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.076±0.007	-0.001±0.004	0.079±0.006
120.5	-4.2±0.3	-0.2±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.076±0.007	-0.003±0.004	0.079±0.006
130.7	-4.1±0.3	-0.3±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.076±0.007	-0.005±0.004	0.077±0.006
140.8	-4.0±0.3	-0.4±0.2	0.00±0.01	-1.16±0.02	1.079±0.007	1.077±0.007	-0.007±0.004	0.075±0.006

Table B.77 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.3±0.3	3.6±0.6	-0.71±0.01	-1.16±0.02	0.666±0.007	0.664±0.007	0.042±0.007	-0.027±0.004
4.7	1.7±0.3	1.3±0.5	-0.65±0.01	-1.16±0.02	0.713±0.007	0.712±0.007	0.016±0.006	-0.022±0.004
5.7	1.2±0.3	0.4±0.5	-0.61±0.01	-1.17±0.02	0.751±0.007	0.750±0.007	0.006±0.006	-0.016±0.004
6.7	0.8±0.3	0.3±0.4	-0.57±0.01	-1.16±0.02	0.768±0.007	0.768±0.007	0.004±0.006	-0.011±0.004
7.7	0.3±0.3	0.3±0.4	-0.54±0.01	-1.16±0.02	0.785±0.007	0.785±0.007	0.004±0.006	-0.005±0.004
8.7	-0.1±0.3	0.1±0.4	-0.53±0.01	-1.17±0.02	0.796±0.007	0.796±0.007	0.002±0.006	0.002±0.004
9.8	-0.4±0.3	0.0±0.4	-0.52±0.01	-1.15±0.02	0.797±0.007	0.797±0.007	0.000±0.006	0.006±0.004
10.8	-0.9±0.3	-0.1±0.4	-0.52±0.01	-1.18±0.02	0.806±0.007	0.806±0.007	-0.001±0.006	0.013±0.004
11.8	-1.1±0.3	-0.1±0.4	-0.52±0.01	-1.16±0.02	0.805±0.007	0.805±0.007	-0.001±0.006	0.016±0.004
12.8	-1.5±0.3	-0.1±0.4	-0.51±0.01	-1.16±0.02	0.808±0.007	0.808±0.007	-0.001±0.006	0.022±0.004
13.8	-1.9±0.3	-0.3±0.4	-0.51±0.01	-1.16±0.02	0.809±0.007	0.809±0.007	-0.004±0.006	0.027±0.004
16.4	-2.7±0.3	-0.4±0.4	-0.50±0.01	-1.16±0.02	0.816±0.007	0.815±0.007	-0.006±0.005	0.038±0.005
18.9	-3.2±0.3	-0.4±0.4	-0.47±0.01	-1.16±0.02	0.830±0.007	0.829±0.007	-0.006±0.005	0.047±0.005
21.4	-3.7±0.3	-0.4±0.4	-0.45±0.01	-1.16±0.02	0.843±0.007	0.841±0.007	-0.005±0.005	0.055±0.005
24.0	-4.1±0.3	-0.3±0.3	-0.42±0.01	-1.15±0.02	0.856±0.007	0.854±0.007	-0.005±0.005	0.061±0.005
26.5	-4.3±0.3	-0.3±0.3	-0.40±0.01	-1.16±0.02	0.871±0.007	0.869±0.007	-0.005±0.005	0.065±0.005
29.1	-4.5±0.3	-0.2±0.3	-0.37±0.01	-1.15±0.02	0.883±0.007	0.880±0.007	-0.003±0.005	0.069±0.005
31.6	-4.5±0.3	-0.1±0.3	-0.34±0.01	-1.15±0.02	0.899±0.007	0.896±0.007	-0.001±0.005	0.071±0.005
34.1	-4.6±0.3	0.0±0.3	-0.33±0.01	-1.16±0.02	0.912±0.007	0.909±0.006	0.001±0.005	0.074±0.005
36.7	-4.6±0.3	0.0±0.3	-0.30±0.01	-1.16±0.02	0.924±0.007	0.921±0.006	0.001±0.005	0.075±0.005
39.2	-4.6±0.3	0.1±0.3	-0.28±0.01	-1.16±0.02	0.936±0.006	0.933±0.006	0.001±0.005	0.076±0.005
44.3	-4.7±0.3	0.2±0.3	-0.24±0.01	-1.16±0.02	0.959±0.007	0.956±0.006	0.004±0.005	0.078±0.005
49.4	-4.6±0.3	0.2±0.3	-0.19±0.01	-1.14±0.02	0.976±0.007	0.973±0.006	0.004±0.005	0.078±0.005
54.5	-4.5±0.3	0.3±0.3	-0.15±0.01	-1.14±0.02	0.999±0.007	0.996±0.007	0.005±0.004	0.079±0.006
59.5	-4.5±0.3	0.2±0.2	-0.12±0.01	-1.15±0.02	1.014±0.007	1.011±0.007	0.004±0.004	0.079±0.006
64.6	-4.4±0.3	0.2±0.2	-0.08±0.01	-1.14±0.02	1.030±0.007	1.027±0.007	0.004±0.004	0.079±0.006
69.7	-4.4±0.3	0.2±0.2	-0.06±0.01	-1.14±0.02	1.043±0.007	1.040±0.007	0.004±0.004	0.080±0.006
74.8	-4.3±0.3	0.2±0.2	-0.03±0.01	-1.14±0.02	1.052±0.007	1.049±0.007	0.003±0.004	0.079±0.006
79.9	-4.2±0.3	0.1±0.2	-0.01±0.01	-1.13±0.02	1.059±0.007	1.056±0.007	0.003±0.004	0.077±0.006
84.9	-4.1±0.3	0.1±0.2	0.00±0.01	-1.13±0.02	1.063±0.007	1.060±0.007	0.002±0.004	0.077±0.006
90.0	-4.0±0.3	0.1±0.2	0.00±0.01	-1.13±0.02	1.065±0.007	1.063±0.007	0.001±0.004	0.075±0.006
100.2	-3.9±0.3	-0.1±0.2	0.00±0.01	-1.13±0.02	1.066±0.007	1.064±0.007	-0.001±0.004	0.072±0.006
110.3	-3.8±0.3	-0.2±0.2	0.00±0.01	-1.13±0.02	1.066±0.007	1.064±0.007	-0.004±0.004	0.071±0.006
120.5	-3.7±0.3	-0.3±0.2	0.00±0.01	-1.13±0.02	1.066±0.007	1.063±0.007	-0.005±0.004	0.070±0.006
130.7	-3.6±0.3	-0.3±0.2	0.00±0.01	-1.13±0.02	1.067±0.007	1.065±0.007	-0.006±0.004	0.068±0.006
140.8	-3.6±0.3	-0.4±0.2	0.00±0.01	-1.13±0.02	1.067±0.007	1.065±0.007	-0.008±0.004	0.066±0.006

Table B.78 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	1.4±0.3	3.2±0.6	-0.69±0.01	-1.15±0.02	0.674±0.007	0.673±0.007	0.038±0.007	-0.017±0.004
4.7	0.7±0.3	1.1±0.5	-0.63±0.01	-1.14±0.02	0.718±0.007	0.718±0.007	0.014±0.006	-0.009±0.004
5.7	0.1±0.3	0.4±0.4	-0.58±0.01	-1.15±0.02	0.760±0.007	0.760±0.007	0.006±0.006	-0.001±0.004
6.7	-0.4±0.3	0.3±0.4	-0.53±0.01	-1.14±0.02	0.780±0.007	0.780±0.007	0.005±0.006	0.005±0.004
7.7	-0.8±0.3	0.4±0.4	-0.52±0.01	-1.16±0.02	0.801±0.007	0.801±0.007	0.005±0.005	0.011±0.004
8.7	-1.2±0.3	0.3±0.4	-0.49±0.01	-1.16±0.02	0.819±0.007	0.819±0.007	0.005±0.005	0.017±0.005
9.8	-1.6±0.3	0.1±0.4	-0.49±0.01	-1.16±0.02	0.817±0.007	0.817±0.007	0.002±0.005	0.023±0.005
10.8	-1.9±0.3	0.0±0.4	-0.48±0.01	-1.16±0.02	0.823±0.007	0.823±0.007	0.000±0.005	0.027±0.005
11.8	-2.2±0.3	0.0±0.4	-0.47±0.01	-1.16±0.02	0.826±0.007	0.825±0.007	0.000±0.005	0.032±0.005
12.8	-2.5±0.3	0.0±0.4	-0.48±0.01	-1.16±0.02	0.829±0.007	0.828±0.007	0.000±0.005	0.037±0.005
13.8	-2.8±0.3	-0.1±0.4	-0.47±0.01	-1.16±0.02	0.831±0.007	0.830±0.007	-0.001±0.005	0.041±0.005
16.4	-3.5±0.3	-0.3±0.4	-0.45±0.01	-1.16±0.02	0.838±0.007	0.836±0.007	-0.004±0.005	0.051±0.005
18.9	-3.9±0.3	-0.4±0.4	-0.44±0.01	-1.15±0.02	0.842±0.007	0.840±0.007	-0.005±0.005	0.058±0.005
21.4	-4.3±0.3	-0.3±0.3	-0.42±0.01	-1.16±0.02	0.859±0.006	0.857±0.006	-0.005±0.005	0.065±0.005
24.0	-4.6±0.3	-0.3±0.3	-0.40±0.01	-1.15±0.02	0.866±0.006	0.863±0.006	-0.005±0.005	0.069±0.005
26.5	-4.8±0.3	-0.3±0.3	-0.37±0.01	-1.15±0.02	0.881±0.006	0.878±0.006	-0.004±0.005	0.073±0.005
29.1	-5.0±0.3	-0.3±0.3	-0.35±0.01	-1.15±0.02	0.891±0.006	0.888±0.006	-0.004±0.005	0.077±0.005
31.6	-5.1±0.3	-0.2±0.3	-0.33±0.01	-1.15±0.02	0.906±0.006	0.902±0.006	-0.003±0.005	0.081±0.005
34.1	-5.2±0.3	-0.1±0.3	-0.31±0.01	-1.15±0.02	0.917±0.006	0.913±0.006	-0.002±0.005	0.083±0.005
36.7	-5.2±0.3	0.0±0.3	-0.28±0.01	-1.15±0.02	0.931±0.006	0.927±0.006	0.000±0.005	0.085±0.005
39.2	-5.2±0.3	0.0±0.3	-0.26±0.01	-1.15±0.02	0.940±0.006	0.936±0.006	0.000±0.005	0.086±0.005
44.3	-5.3±0.3	0.1±0.3	-0.22±0.01	-1.14±0.02	0.960±0.006	0.956±0.006	0.002±0.005	0.088±0.005
49.4	-5.3±0.3	0.1±0.3	-0.18±0.01	-1.14±0.02	0.980±0.006	0.976±0.006	0.002±0.004	0.090±0.005
54.5	-5.2±0.3	0.1±0.3	-0.14±0.01	-1.15±0.02	1.001±0.006	0.997±0.006	0.002±0.004	0.091±0.006
59.5	-5.2±0.3	0.1±0.2	-0.11±0.01	-1.13±0.02	1.013±0.006	1.008±0.006	0.002±0.004	0.091±0.006
64.6	-5.2±0.3	0.0±0.2	-0.07±0.01	-1.13±0.02	1.028±0.007	1.024±0.007	0.001±0.004	0.093±0.006
69.7	-5.1±0.3	0.1±0.2	-0.05±0.01	-1.13±0.02	1.041±0.007	1.037±0.007	0.001±0.004	0.092±0.006
74.8	-5.0±0.3	0.1±0.2	-0.03±0.01	-1.14±0.02	1.053±0.007	1.050±0.007	0.002±0.004	0.091±0.006
79.9	-4.9±0.3	0.0±0.2	-0.01±0.01	-1.13±0.02	1.058±0.007	1.054±0.007	-0.001±0.004	0.090±0.006
84.9	-4.8±0.3	-0.1±0.2	0.00±0.01	-1.13±0.02	1.061±0.007	1.057±0.007	-0.001±0.004	0.090±0.006
90.0	-4.7±0.3	-0.1±0.2	0.00±0.01	-1.13±0.02	1.063±0.007	1.059±0.007	-0.001±0.004	0.088±0.006
100.2	-4.6±0.3	-0.1±0.2	0.00±0.01	-1.13±0.02	1.063±0.007	1.060±0.007	-0.002±0.004	0.085±0.006
110.3	-4.5±0.3	-0.3±0.2	0.01±0.01	-1.13±0.02	1.063±0.007	1.060±0.007	-0.005±0.004	0.083±0.006
120.5	-4.4±0.3	-0.3±0.2	0.01±0.01	-1.13±0.02	1.064±0.007	1.060±0.007	-0.005±0.004	0.082±0.006
130.7	-4.3±0.3	-0.4±0.2	0.00±0.01	-1.13±0.02	1.064±0.007	1.061±0.007	-0.007±0.004	0.081±0.006
140.8	-4.2±0.3	-0.5±0.2	0.00±0.01	-1.13±0.02	1.065±0.007	1.062±0.007	-0.009±0.004	0.079±0.006

Table B.79 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-38 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.7±0.3	2.5±0.5	-0.65±0.01	-1.14±0.02	0.699±0.007	0.698±0.007	0.030±0.006	-0.009±0.004
4.7	0.1±0.3	0.9±0.4	-0.58±0.01	-1.14±0.02	0.747±0.007	0.746±0.007	0.012±0.006	-0.001±0.004
5.7	-0.5±0.3	0.4±0.4	-0.53±0.01	-1.14±0.02	0.780±0.007	0.780±0.007	0.006±0.006	0.007±0.004
6.7	-1.1±0.3	0.3±0.4	-0.49±0.01	-1.14±0.02	0.809±0.007	0.809±0.007	0.004±0.005	0.016±0.004
7.7	-1.6±0.3	0.3±0.4	-0.47±0.01	-1.14±0.02	0.820±0.007	0.820±0.007	0.005±0.005	0.023±0.005
8.7	-1.8±0.3	0.2±0.4	-0.45±0.01	-1.14±0.02	0.833±0.006	0.833±0.006	0.003±0.005	0.026±0.005
9.8	-2.2±0.3	0.1±0.4	-0.45±0.01	-1.16±0.02	0.839±0.006	0.838±0.006	0.001±0.005	0.033±0.005
10.8	-2.5±0.3	0.0±0.4	-0.44±0.01	-1.15±0.02	0.838±0.006	0.837±0.006	0.000±0.005	0.036±0.005
11.8	-2.8±0.3	0.0±0.4	-0.44±0.01	-1.15±0.02	0.839±0.006	0.838±0.006	0.000±0.005	0.041±0.005
12.8	-3.1±0.3	0.0±0.4	-0.44±0.01	-1.15±0.02	0.840±0.006	0.839±0.006	0.000±0.005	0.045±0.005
13.8	-3.3±0.3	-0.1±0.4	-0.44±0.01	-1.15±0.02	0.842±0.006	0.841±0.006	-0.001±0.005	0.048±0.005
16.4	-3.8±0.3	-0.3±0.3	-0.43±0.01	-1.15±0.02	0.848±0.006	0.847±0.006	-0.004±0.005	0.056±0.005
18.9	-4.2±0.3	-0.3±0.3	-0.41±0.01	-1.14±0.02	0.858±0.006	0.855±0.006	-0.005±0.005	0.062±0.005
21.4	-4.5±0.3	-0.4±0.3	-0.39±0.01	-1.14±0.02	0.869±0.006	0.867±0.006	-0.005±0.005	0.069±0.005
24.0	-4.7±0.3	-0.3±0.3	-0.38±0.01	-1.15±0.02	0.878±0.006	0.875±0.006	-0.005±0.005	0.072±0.005
26.5	-5.0±0.3	-0.3±0.3	-0.35±0.01	-1.14±0.02	0.887±0.006	0.884±0.006	-0.005±0.005	0.077±0.005
29.1	-5.1±0.3	-0.3±0.3	-0.33±0.01	-1.14±0.02	0.897±0.006	0.894±0.006	-0.004±0.005	0.079±0.005
31.6	-5.2±0.3	-0.2±0.3	-0.32±0.01	-1.15±0.02	0.912±0.006	0.908±0.006	-0.004±0.005	0.083±0.005
34.1	-5.3±0.3	-0.2±0.3	-0.29±0.01	-1.14±0.02	0.918±0.006	0.915±0.006	-0.004±0.005	0.084±0.005
36.7	-5.4±0.3	-0.2±0.3	-0.27±0.01	-1.13±0.02	0.929±0.006	0.925±0.006	-0.003±0.005	0.087±0.005
39.2	-5.4±0.3	-0.2±0.3	-0.26±0.01	-1.14±0.02	0.941±0.006	0.937±0.006	-0.003±0.005	0.089±0.005
44.3	-5.5±0.3	-0.2±0.3	-0.21±0.01	-1.13±0.02	0.959±0.006	0.954±0.006	-0.003±0.005	0.092±0.005
49.4	-5.5±0.3	-0.2±0.3	-0.17±0.01	-1.13±0.02	0.980±0.006	0.976±0.006	-0.003±0.004	0.094±0.005
54.5	-5.4±0.3	-0.1±0.3	-0.13±0.01	-1.13±0.02	0.997±0.006	0.993±0.006	-0.002±0.004	0.094±0.006
59.5	-5.4±0.3	-0.1±0.2	-0.11±0.01	-1.14±0.02	1.016±0.006	1.011±0.006	-0.002±0.004	0.096±0.006
64.6	-5.3±0.3	-0.1±0.2	-0.06±0.01	-1.12±0.02	1.029±0.006	1.025±0.006	-0.001±0.004	0.095±0.006
69.7	-5.3±0.3	-0.2±0.2	-0.04±0.01	-1.12±0.02	1.041±0.006	1.037±0.006	-0.003±0.004	0.095±0.006
74.8	-5.1±0.3	-0.1±0.2	-0.02±0.01	-1.11±0.02	1.046±0.007	1.042±0.006	-0.003±0.004	0.094±0.006
79.9	-5.1±0.3	-0.2±0.2	-0.01±0.01	-1.11±0.02	1.052±0.007	1.047±0.007	-0.004±0.004	0.094±0.006
84.9	-5.0±0.3	-0.2±0.2	0.00±0.01	-1.11±0.02	1.054±0.007	1.050±0.007	-0.004±0.004	0.092±0.006
90.0	-4.9±0.3	-0.3±0.2	0.00±0.01	-1.11±0.02	1.055±0.007	1.051±0.007	-0.005±0.004	0.091±0.006
100.2	-4.8±0.3	-0.3±0.2	0.00±0.01	-1.11±0.02	1.056±0.007	1.052±0.007	-0.005±0.004	0.088±0.006
110.3	-4.6±0.3	-0.4±0.2	0.00±0.01	-1.11±0.02	1.056±0.007	1.053±0.007	-0.008±0.004	0.085±0.006
120.5	-4.6±0.3	-0.4±0.2	0.01±0.01	-1.11±0.02	1.056±0.007	1.052±0.007	-0.008±0.004	0.084±0.006
130.7	-4.5±0.3	-0.5±0.2	0.00±0.01	-1.11±0.02	1.056±0.007	1.053±0.007	-0.009±0.004	0.083±0.006
140.8	-4.4±0.3	-0.6±0.2	0.00±0.01	-1.11±0.02	1.057±0.007	1.054±0.007	-0.010±0.004	0.081±0.006

Table B.80 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-32 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.0±0.3	2.5±0.5	-0.61±0.01	-1.11±0.02	0.702±0.007	0.702±0.007	0.030±0.006	0.000±0.004
4.7	-0.8±0.3	0.9±0.4	-0.55±0.01	-1.12±0.02	0.757±0.007	0.757±0.007	0.012±0.006	0.011±0.004
5.7	-1.4±0.3	0.3±0.4	-0.50±0.01	-1.13±0.02	0.796±0.007	0.796±0.007	0.005±0.005	0.019±0.004
6.7	-1.9±0.3	0.0±0.4	-0.45±0.01	-1.12±0.02	0.818±0.007	0.818±0.007	0.001±0.005	0.027±0.005
7.7	-2.3±0.3	0.0±0.4	-0.43±0.01	-1.12±0.02	0.833±0.006	0.832±0.006	0.000±0.005	0.033±0.005
8.7	-2.5±0.3	-0.1±0.4	-0.42±0.01	-1.13±0.02	0.843±0.006	0.842±0.006	-0.001±0.005	0.037±0.005
9.8	-2.9±0.3	-0.3±0.4	-0.41±0.01	-1.12±0.02	0.844±0.006	0.843±0.006	-0.004±0.005	0.042±0.005
10.8	-3.1±0.3	-0.3±0.3	-0.40±0.01	-1.13±0.02	0.850±0.006	0.849±0.006	-0.005±0.005	0.045±0.005
11.8	-3.3±0.3	-0.3±0.3	-0.40±0.01	-1.12±0.02	0.848±0.006	0.846±0.006	-0.005±0.005	0.049±0.005
12.8	-3.6±0.3	-0.3±0.3	-0.40±0.01	-1.12±0.02	0.849±0.006	0.847±0.006	-0.005±0.005	0.053±0.005
13.8	-3.7±0.3	-0.4±0.3	-0.40±0.01	-1.13±0.02	0.854±0.006	0.852±0.006	-0.006±0.005	0.056±0.005
16.4	-4.1±0.3	-0.6±0.3	-0.39±0.01	-1.12±0.02	0.858±0.006	0.855±0.006	-0.009±0.005	0.062±0.005
18.9	-4.5±0.3	-0.6±0.3	-0.37±0.01	-1.12±0.02	0.866±0.006	0.864±0.006	-0.010±0.005	0.067±0.005
21.4	-4.8±0.3	-0.6±0.3	-0.36±0.01	-1.13±0.02	0.875±0.006	0.872±0.006	-0.009±0.005	0.073±0.005
24.0	-5.0±0.3	-0.6±0.3	-0.34±0.01	-1.12±0.02	0.882±0.006	0.878±0.006	-0.009±0.005	0.076±0.005
26.5	-5.1±0.3	-0.6±0.3	-0.32±0.01	-1.12±0.02	0.893±0.006	0.890±0.006	-0.009±0.005	0.079±0.005
29.1	-5.3±0.3	-0.6±0.3	-0.30±0.01	-1.11±0.02	0.901±0.006	0.897±0.006	-0.009±0.005	0.083±0.005
31.6	-5.4±0.3	-0.6±0.3	-0.28±0.01	-1.11±0.02	0.909±0.006	0.905±0.006	-0.009±0.005	0.086±0.005
34.1	-5.5±0.3	-0.5±0.3	-0.27±0.01	-1.11±0.02	0.918±0.006	0.914±0.006	-0.008±0.005	0.088±0.005
36.7	-5.5±0.3	-0.5±0.3	-0.25±0.01	-1.12±0.02	0.932±0.006	0.927±0.006	-0.008±0.005	0.090±0.005
39.2	-5.6±0.3	-0.5±0.3	-0.22±0.01	-1.11±0.02	0.941±0.006	0.936±0.006	-0.008±0.005	0.092±0.005
44.3	-5.7±0.3	-0.4±0.3	-0.20±0.01	-1.11±0.02	0.956±0.006	0.951±0.006	-0.007±0.005	0.095±0.005
49.4	-5.7±0.3	-0.4±0.3	-0.15±0.01	-1.10±0.02	0.974±0.006	0.970±0.006	-0.007±0.004	0.097±0.005
54.5	-5.6±0.3	-0.4±0.3	-0.12±0.01	-1.10±0.02	0.993±0.006	0.988±0.006	-0.007±0.004	0.097±0.005
59.5	-5.6±0.3	-0.4±0.2	-0.09±0.01	-1.10±0.02	1.005±0.006	1.000±0.006	-0.008±0.004	0.098±0.006
64.6	-5.5±0.3	-0.4±0.2	-0.05±0.01	-1.08±0.02	1.013±0.006	1.009±0.006	-0.007±0.004	0.097±0.006
69.7	-5.5±0.3	-0.4±0.2	-0.03±0.01	-1.09±0.02	1.030±0.006	1.025±0.006	-0.007±0.004	0.098±0.006
74.8	-5.4±0.3	-0.4±0.2	-0.02±0.01	-1.09±0.02	1.035±0.006	1.031±0.006	-0.006±0.004	0.097±0.006
79.9	-5.3±0.3	-0.5±0.2	-0.01±0.01	-1.09±0.02	1.040±0.006	1.035±0.006	-0.008±0.004	0.096±0.006
84.9	-5.2±0.3	-0.4±0.2	0.00±0.01	-1.09±0.02	1.042±0.006	1.037±0.006	-0.008±0.004	0.094±0.006
90.0	-5.1±0.3	-0.4±0.2	0.00±0.01	-1.08±0.02	1.043±0.006	1.039±0.006	-0.008±0.004	0.093±0.006
100.2	-5.0±0.3	-0.5±0.2	0.00±0.01	-1.08±0.02	1.043±0.006	1.039±0.006	-0.008±0.004	0.090±0.006
110.3	-4.9±0.3	-0.5±0.2	0.00±0.01	-1.08±0.02	1.042±0.006	1.039±0.006	-0.010±0.004	0.089±0.006
120.5	-4.8±0.3	-0.5±0.2	0.00±0.01	-1.08±0.02	1.043±0.006	1.039±0.006	-0.009±0.004	0.087±0.006
130.7	-4.7±0.3	-0.5±0.2	0.00±0.01	-1.09±0.02	1.044±0.006	1.040±0.006	-0.010±0.004	0.085±0.006
140.8	-4.6±0.3	-0.7±0.2	0.00±0.01	-1.09±0.02	1.044±0.006	1.041±0.006	-0.013±0.004	0.084±0.006

Table B.81 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-25 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.5±0.3	2.0±0.5	-0.63±0.01	-1.11±0.02	0.696±0.007	0.695±0.007	0.024±0.006	0.019±0.004
4.7	-2.5±0.3	0.4±0.4	-0.55±0.01	-1.11±0.02	0.747±0.007	0.747±0.007	0.005±0.006	0.033±0.004
5.7	-3.0±0.3	-0.1±0.4	-0.49±0.01	-1.12±0.02	0.790±0.007	0.789±0.007	-0.001±0.006	0.042±0.004
6.7	-3.3±0.3	-0.4±0.4	-0.46±0.01	-1.11±0.02	0.805±0.007	0.803±0.007	-0.006±0.005	0.047±0.004
7.7	-3.6±0.3	-0.7±0.4	-0.42±0.01	-1.10±0.02	0.824±0.007	0.823±0.007	-0.011±0.005	0.052±0.005
8.7	-3.8±0.3	-0.8±0.4	-0.42±0.01	-1.12±0.02	0.833±0.007	0.831±0.007	-0.012±0.005	0.055±0.005
9.8	-3.8±0.3	-1.0±0.4	-0.41±0.01	-1.12±0.02	0.844±0.006	0.842±0.006	-0.015±0.005	0.056±0.005
10.8	-3.9±0.3	-1.0±0.3	-0.40±0.01	-1.12±0.02	0.849±0.006	0.846±0.006	-0.015±0.005	0.058±0.005
11.8	-4.1±0.3	-1.2±0.3	-0.39±0.01	-1.12±0.02	0.853±0.006	0.851±0.006	-0.018±0.005	0.060±0.005
12.8	-4.2±0.3	-1.3±0.3	-0.38±0.01	-1.12±0.02	0.858±0.006	0.855±0.006	-0.019±0.005	0.062±0.005
13.8	-4.3±0.3	-1.3±0.3	-0.37±0.01	-1.12±0.02	0.862±0.006	0.860±0.006	-0.019±0.005	0.065±0.005
16.4	-4.6±0.3	-1.3±0.3	-0.36±0.01	-1.11±0.02	0.869±0.006	0.866±0.006	-0.019±0.005	0.069±0.005
18.9	-4.7±0.3	-1.2±0.3	-0.35±0.01	-1.12±0.02	0.877±0.006	0.874±0.006	-0.019±0.005	0.072±0.005
21.4	-5.0±0.3	-1.2±0.3	-0.34±0.01	-1.12±0.02	0.881±0.006	0.877±0.006	-0.019±0.005	0.077±0.005
24.0	-5.2±0.3	-1.2±0.3	-0.32±0.01	-1.12±0.02	0.893±0.006	0.889±0.006	-0.019±0.005	0.080±0.005
26.5	-5.3±0.3	-1.2±0.3	-0.30±0.01	-1.11±0.02	0.902±0.006	0.898±0.006	-0.018±0.005	0.084±0.005
29.1	-5.4±0.3	-1.1±0.3	-0.28±0.01	-1.10±0.02	0.910±0.006	0.905±0.006	-0.018±0.005	0.086±0.005
31.6	-5.5±0.3	-1.1±0.3	-0.26±0.01	-1.10±0.02	0.914±0.006	0.909±0.006	-0.018±0.005	0.088±0.005
34.1	-5.6±0.3	-1.1±0.3	-0.24±0.01	-1.09±0.02	0.924±0.006	0.919±0.006	-0.017±0.005	0.090±0.005
36.7	-5.7±0.3	-1.0±0.3	-0.22±0.01	-1.10±0.02	0.935±0.006	0.930±0.006	-0.017±0.005	0.093±0.005
39.2	-5.7±0.3	-1.0±0.3	-0.20±0.01	-1.09±0.02	0.943±0.006	0.938±0.006	-0.017±0.005	0.093±0.005
44.3	-5.8±0.3	-0.9±0.3	-0.18±0.01	-1.10±0.02	0.959±0.006	0.954±0.006	-0.016±0.005	0.097±0.005
49.4	-5.7±0.3	-0.9±0.3	-0.14±0.01	-1.09±0.02	0.976±0.006	0.971±0.006	-0.015±0.004	0.097±0.005
54.5	-5.8±0.3	-0.8±0.3	-0.11±0.01	-1.08±0.02	0.985±0.006	0.980±0.006	-0.014±0.004	0.099±0.005
59.5	-5.7±0.3	-0.8±0.3	-0.08±0.01	-1.07±0.02	0.999±0.006	0.994±0.006	-0.014±0.004	0.099±0.006
64.6	-5.6±0.3	-0.7±0.2	-0.05±0.01	-1.07±0.02	1.010±0.006	1.005±0.006	-0.012±0.004	0.099±0.006
69.7	-5.5±0.3	-0.6±0.2	-0.03±0.01	-1.08±0.02	1.023±0.006	1.018±0.006	-0.011±0.004	0.099±0.006
74.8	-5.5±0.3	-0.7±0.2	-0.01±0.01	-1.07±0.02	1.028±0.006	1.023±0.006	-0.013±0.004	0.099±0.006
79.9	-5.4±0.3	-0.6±0.2	0.00±0.01	-1.07±0.02	1.031±0.006	1.026±0.006	-0.010±0.004	0.096±0.006
84.9	-5.3±0.3	-0.5±0.2	0.00±0.01	-1.07±0.02	1.033±0.006	1.029±0.006	-0.010±0.004	0.095±0.006
90.0	-5.2±0.3	-0.5±0.2	0.00±0.01	-1.07±0.02	1.035±0.006	1.030±0.006	-0.010±0.004	0.094±0.006
100.2	-5.0±0.3	-0.5±0.2	0.00±0.01	-1.07±0.02	1.035±0.006	1.030±0.006	-0.010±0.004	0.091±0.006
110.3	-5.0±0.3	-0.5±0.2	0.00±0.01	-1.07±0.02	1.035±0.006	1.031±0.006	-0.010±0.004	0.091±0.006
120.5	-4.9±0.3	-0.6±0.2	0.00±0.01	-1.07±0.02	1.036±0.006	1.032±0.006	-0.010±0.004	0.089±0.006
130.7	-4.9±0.3	-0.7±0.2	0.00±0.01	-1.07±0.02	1.036±0.006	1.032±0.006	-0.013±0.004	0.088±0.006
140.8	-4.9±0.3	-0.8±0.2	0.00±0.01	-1.07±0.02	1.036±0.006	1.032±0.006	-0.014±0.004	0.088±0.006

Table B.82 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(302 mm,-19 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-4.5±0.3	1.1±0.6	-0.68±0.01	-1.09±0.02	0.639±0.007	0.637±0.007	0.012±0.007	0.050±0.004
4.7	-5.2±0.3	-0.2±0.5	-0.63±0.01	-1.10±0.02	0.684±0.007	0.682±0.007	-0.002±0.006	0.062±0.004
5.7	-5.4±0.3	-0.7±0.5	-0.59±0.01	-1.10±0.02	0.712±0.007	0.709±0.007	-0.008±0.006	0.066±0.004
6.7	-5.6±0.3	-1.0±0.5	-0.56±0.01	-1.09±0.02	0.726±0.007	0.722±0.007	-0.013±0.006	0.071±0.004
7.7	-5.5±0.3	-1.5±0.5	-0.54±0.01	-1.08±0.02	0.735±0.007	0.731±0.007	-0.019±0.006	0.071±0.004
8.7	-5.5±0.3	-1.5±0.4	-0.53±0.01	-1.09±0.02	0.753±0.007	0.749±0.007	-0.020±0.006	0.072±0.004
9.8	-5.4±0.3	-1.8±0.4	-0.52±0.01	-1.10±0.02	0.759±0.007	0.755±0.007	-0.024±0.006	0.071±0.004
10.8	-5.5±0.3	-1.8±0.4	-0.51±0.01	-1.10±0.02	0.766±0.007	0.762±0.007	-0.023±0.006	0.073±0.004
11.8	-5.4±0.3	-2.0±0.4	-0.48±0.01	-1.09±0.02	0.779±0.007	0.775±0.007	-0.027±0.006	0.073±0.004
12.8	-5.4±0.3	-2.1±0.4	-0.47±0.01	-1.08±0.02	0.783±0.007	0.779±0.007	-0.028±0.006	0.074±0.004
13.8	-5.4±0.3	-2.0±0.4	-0.46±0.01	-1.09±0.02	0.794±0.007	0.790±0.007	-0.028±0.005	0.075±0.004
16.4	-5.5±0.3	-2.2±0.4	-0.41±0.01	-1.07±0.02	0.816±0.007	0.812±0.007	-0.031±0.005	0.079±0.005
18.9	-5.7±0.3	-2.2±0.3	-0.34±0.01	-1.08±0.02	0.861±0.006	0.856±0.006	-0.033±0.005	0.085±0.005
21.4	-5.7±0.3	-2.2±0.3	-0.31±0.01	-1.09±0.02	0.881±0.006	0.876±0.006	-0.033±0.005	0.088±0.005
24.0	-5.9±0.3	-2.1±0.3	-0.28±0.01	-1.08±0.02	0.893±0.006	0.888±0.006	-0.033±0.005	0.091±0.005
26.5	-5.9±0.3	-2.2±0.3	-0.26±0.01	-1.06±0.02	0.899±0.006	0.894±0.006	-0.034±0.005	0.092±0.005
29.1	-5.9±0.3	-2.2±0.3	-0.25±0.01	-1.08±0.02	0.910±0.006	0.904±0.006	-0.034±0.005	0.094±0.005
31.6	-6.0±0.3	-2.1±0.3	-0.22±0.01	-1.06±0.02	0.915±0.006	0.910±0.006	-0.034±0.005	0.095±0.005
34.1	-6.0±0.3	-1.9±0.3	-0.20±0.01	-1.07±0.02	0.933±0.006	0.927±0.006	-0.031±0.005	0.097±0.005
36.7	-6.0±0.3	-1.9±0.3	-0.19±0.01	-1.06±0.02	0.934±0.006	0.929±0.006	-0.031±0.005	0.098±0.005
39.2	-6.0±0.3	-1.8±0.3	-0.17±0.01	-1.06±0.02	0.943±0.006	0.937±0.006	-0.030±0.005	0.099±0.005
44.3	-6.0±0.3	-1.7±0.3	-0.14±0.01	-1.06±0.02	0.956±0.006	0.950±0.006	-0.029±0.005	0.100±0.005
49.4	-6.1±0.3	-1.6±0.3	-0.11±0.01	-1.05±0.02	0.969±0.006	0.964±0.006	-0.026±0.004	0.102±0.005
54.5	-6.1±0.3	-1.4±0.3	-0.09±0.01	-1.05±0.02	0.981±0.006	0.975±0.006	-0.024±0.004	0.103±0.005
59.5	-6.0±0.3	-1.3±0.3	-0.06±0.01	-1.05±0.02	0.994±0.006	0.988±0.006	-0.022±0.004	0.104±0.005
64.6	-6.0±0.3	-1.1±0.2	-0.04±0.01	-1.04±0.02	1.001±0.006	0.996±0.006	-0.019±0.004	0.104±0.006
69.7	-5.9±0.3	-1.0±0.2	-0.02±0.01	-1.04±0.02	1.008±0.006	1.002±0.006	-0.018±0.004	0.104±0.006
74.8	-5.8±0.3	-1.0±0.2	-0.01±0.01	-1.04±0.02	1.013±0.006	1.007±0.006	-0.017±0.004	0.102±0.006
79.9	-5.7±0.3	-0.8±0.2	0.00±0.01	-1.03±0.02	1.015±0.006	1.010±0.006	-0.015±0.004	0.101±0.006
84.9	-5.7±0.3	-0.8±0.2	0.00±0.01	-1.03±0.02	1.016±0.006	1.011±0.006	-0.014±0.004	0.100±0.006
90.0	-5.6±0.3	-0.6±0.2	0.00±0.01	-1.03±0.02	1.017±0.006	1.012±0.006	-0.010±0.004	0.099±0.006
100.2	-5.6±0.3	-0.6±0.2	0.00±0.01	-1.03±0.02	1.018±0.006	1.013±0.006	-0.010±0.004	0.099±0.006
110.3	-5.6±0.3	-0.6±0.2	0.00±0.01	-1.04±0.02	1.019±0.006	1.014±0.006	-0.010±0.004	0.099±0.006
120.5	-5.5±0.3	-0.6±0.2	0.00±0.01	-1.04±0.02	1.021±0.006	1.016±0.006	-0.010±0.004	0.098±0.006
130.7	-5.5±0.3	-0.6±0.2	0.00±0.01	-1.04±0.02	1.020±0.006	1.016±0.006	-0.010±0.004	0.097±0.006
140.8	-5.5±0.3	-0.7±0.2	0.00±0.01	-1.04±0.02	1.022±0.006	1.017±0.006	-0.013±0.004	0.097±0.006

Table B.83 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.4±0.3	1.0±0.5	-0.72±0.01	-1.19±0.02	0.688±0.007	0.688±0.007	0.012±0.006	0.005±0.004
4.7	-0.5±0.3	0.5±0.5	-0.70±0.01	-1.21±0.02	0.714±0.007	0.714±0.007	0.006±0.006	0.006±0.004
5.7	-0.5±0.3	0.3±0.5	-0.67±0.01	-1.20±0.02	0.728±0.007	0.728±0.007	0.004±0.006	0.006±0.004
6.7	-0.4±0.3	0.3±0.5	-0.65±0.01	-1.20±0.02	0.745±0.007	0.745±0.007	0.004±0.006	0.005±0.004
7.7	-0.4±0.3	0.3±0.4	-0.62±0.01	-1.19±0.02	0.760±0.007	0.760±0.007	0.004±0.006	0.005±0.004
8.7	-0.5±0.3	0.1±0.4	-0.60±0.01	-1.20±0.02	0.773±0.007	0.773±0.007	0.001±0.006	0.006±0.004
9.8	-0.4±0.3	0.1±0.4	-0.59±0.01	-1.20±0.02	0.782±0.007	0.782±0.007	0.002±0.006	0.006±0.004
10.8	-0.4±0.3	0.2±0.4	-0.57±0.01	-1.20±0.02	0.796±0.007	0.796±0.007	0.003±0.006	0.006±0.004
11.8	-0.4±0.3	0.0±0.4	-0.55±0.01	-1.20±0.02	0.803±0.007	0.803±0.007	0.000±0.006	0.005±0.004
12.8	-0.3±0.3	0.1±0.4	-0.54±0.01	-1.20±0.02	0.809±0.007	0.809±0.007	0.002±0.005	0.004±0.004
13.8	-0.2±0.3	0.1±0.4	-0.53±0.01	-1.20±0.02	0.817±0.007	0.817±0.007	0.002±0.005	0.003±0.005
16.4	-0.2±0.3	0.2±0.4	-0.49±0.01	-1.19±0.02	0.837±0.007	0.837±0.007	0.002±0.005	0.004±0.005
18.9	-0.2±0.3	0.1±0.3	-0.47±0.01	-1.21±0.02	0.860±0.007	0.860±0.007	0.002±0.005	0.004±0.005
21.4	-0.2±0.3	0.2±0.3	-0.44±0.01	-1.21±0.02	0.874±0.007	0.874±0.007	0.003±0.005	0.003±0.005
24.0	-0.2±0.3	0.2±0.3	-0.41±0.01	-1.19±0.02	0.885±0.006	0.885±0.006	0.003±0.005	0.004±0.005
26.5	-0.2±0.3	0.3±0.3	-0.38±0.01	-1.19±0.02	0.901±0.006	0.901±0.006	0.005±0.005	0.003±0.005
29.1	-0.2±0.3	0.3±0.3	-0.35±0.01	-1.19±0.02	0.915±0.006	0.915±0.006	0.005±0.005	0.003±0.005
31.6	-0.2±0.3	0.3±0.3	-0.34±0.01	-1.20±0.02	0.929±0.006	0.929±0.006	0.006±0.005	0.003±0.005
34.1	-0.3±0.3	0.4±0.3	-0.31±0.01	-1.20±0.02	0.944±0.006	0.944±0.006	0.006±0.005	0.004±0.005
36.7	-0.3±0.3	0.4±0.3	-0.29±0.01	-1.19±0.02	0.951±0.006	0.951±0.006	0.006±0.005	0.004±0.005
39.2	-0.3±0.3	0.4±0.3	-0.26±0.01	-1.19±0.02	0.963±0.006	0.963±0.006	0.006±0.005	0.004±0.005
44.3	-0.3±0.3	0.4±0.3	-0.22±0.01	-1.19±0.02	0.986±0.006	0.985±0.006	0.006±0.004	0.004±0.005
49.4	-0.3±0.3	0.4±0.2	-0.18±0.01	-1.19±0.02	1.006±0.007	1.006±0.006	0.007±0.004	0.005±0.006
54.5	-0.3±0.3	0.4±0.2	-0.15±0.01	-1.21±0.02	1.028±0.007	1.028±0.007	0.007±0.004	0.005±0.006
59.5	-0.2±0.3	0.4±0.2	-0.11±0.01	-1.20±0.02	1.044±0.007	1.044±0.007	0.008±0.004	0.004±0.006
64.6	-0.3±0.3	0.4±0.2	-0.07±0.01	-1.19±0.02	1.057±0.007	1.057±0.007	0.008±0.004	0.005±0.006
69.7	-0.3±0.3	0.4±0.2	-0.04±0.01	-1.20±0.02	1.073±0.007	1.073±0.007	0.008±0.004	0.005±0.006
74.8	-0.3±0.3	0.4±0.2	-0.03±0.01	-1.20±0.02	1.081±0.007	1.081±0.007	0.008±0.004	0.005±0.006
79.9	-0.2±0.3	0.5±0.2	-0.01±0.01	-1.19±0.02	1.089±0.007	1.089±0.007	0.009±0.004	0.003±0.006
84.9	-0.2±0.3	0.5±0.2	0.00±0.01	-1.20±0.02	1.093±0.007	1.093±0.007	0.010±0.004	0.003±0.006
90.0	-0.1±0.3	0.6±0.2	0.01±0.01	-1.19±0.02	1.096±0.007	1.096±0.007	0.011±0.004	0.002±0.006
100.2	-0.1±0.3	0.5±0.2	0.01±0.01	-1.19±0.02	1.096±0.007	1.096±0.007	0.010±0.004	0.001±0.006
110.3	-0.1±0.3	0.4±0.2	0.01±0.01	-1.19±0.02	1.096±0.007	1.096±0.007	0.008±0.004	0.001±0.006
120.5	0.0±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.098±0.007	0.008±0.004	0.001±0.006
130.7	0.0±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.097±0.007	1.097±0.007	0.008±0.004	0.000±0.006
140.8	0.0±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.098±0.007	0.008±0.004	0.001±0.006

Table B.84 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.2±0.3	1.0±0.6	-0.73±0.01	-1.18±0.02	0.674±0.007	0.673±0.007	0.012±0.007	-0.002±0.004
4.7	0.2±0.3	0.5±0.5	-0.70±0.01	-1.18±0.02	0.693±0.007	0.693±0.007	0.005±0.006	-0.002±0.004
5.7	0.1±0.3	0.4±0.5	-0.68±0.01	-1.19±0.02	0.714±0.007	0.714±0.007	0.006±0.006	-0.002±0.004
6.7	0.0±0.3	0.3±0.5	-0.66±0.01	-1.18±0.02	0.723±0.007	0.723±0.007	0.004±0.006	0.000±0.004
7.7	-0.1±0.3	0.3±0.5	-0.64±0.01	-1.18±0.02	0.737±0.007	0.737±0.007	0.004±0.006	0.001±0.004
8.7	0.0±0.3	0.3±0.5	-0.62±0.01	-1.18±0.02	0.748±0.007	0.748±0.007	0.004±0.006	0.001±0.004
9.8	0.0±0.3	0.3±0.4	-0.60±0.01	-1.18±0.02	0.763±0.007	0.763±0.007	0.004±0.006	0.001±0.004
10.8	0.0±0.3	0.3±0.4	-0.59±0.01	-1.18±0.02	0.774±0.007	0.774±0.007	0.003±0.006	0.001±0.004
11.8	0.0±0.3	0.3±0.4	-0.57±0.01	-1.18±0.02	0.784±0.007	0.784±0.007	0.004±0.006	0.001±0.004
12.8	0.0±0.3	0.3±0.4	-0.56±0.01	-1.18±0.02	0.791±0.007	0.791±0.007	0.004±0.006	0.001±0.004
13.8	0.0±0.3	0.3±0.4	-0.54±0.01	-1.18±0.02	0.800±0.007	0.800±0.007	0.005±0.006	0.001±0.004
16.4	-0.1±0.3	0.3±0.4	-0.51±0.01	-1.19±0.02	0.824±0.007	0.824±0.007	0.004±0.005	0.001±0.005
18.9	0.0±0.3	0.3±0.4	-0.47±0.01	-1.18±0.02	0.842±0.007	0.842±0.007	0.005±0.005	0.001±0.005
21.4	-0.1±0.3	0.3±0.3	-0.45±0.01	-1.17±0.02	0.852±0.007	0.852±0.007	0.005±0.005	0.002±0.005
24.0	-0.2±0.3	0.4±0.3	-0.42±0.01	-1.18±0.02	0.873±0.007	0.873±0.007	0.006±0.005	0.002±0.005
26.5	-0.2±0.3	0.4±0.3	-0.40±0.01	-1.18±0.02	0.886±0.007	0.886±0.007	0.006±0.005	0.003±0.005
29.1	-0.2±0.3	0.4±0.3	-0.37±0.01	-1.18±0.02	0.900±0.006	0.900±0.006	0.006±0.005	0.003±0.005
31.6	-0.3±0.3	0.4±0.3	-0.34±0.01	-1.18±0.02	0.913±0.006	0.913±0.006	0.006±0.005	0.004±0.005
34.1	-0.3±0.3	0.4±0.3	-0.32±0.01	-1.18±0.02	0.926±0.006	0.926±0.006	0.006±0.005	0.005±0.005
36.7	-0.3±0.3	0.4±0.3	-0.30±0.01	-1.18±0.02	0.940±0.006	0.940±0.006	0.006±0.005	0.004±0.005
39.2	-0.3±0.3	0.4±0.3	-0.28±0.01	-1.18±0.02	0.950±0.006	0.950±0.006	0.007±0.005	0.005±0.005
44.3	-0.3±0.3	0.4±0.3	-0.22±0.01	-1.18±0.02	0.979±0.006	0.979±0.006	0.007±0.005	0.006±0.005
49.4	-0.3±0.3	0.4±0.3	-0.19±0.01	-1.18±0.02	0.997±0.007	0.997±0.007	0.007±0.004	0.006±0.006
54.5	-0.4±0.3	0.4±0.2	-0.15±0.01	-1.17±0.02	1.012±0.007	1.012±0.007	0.008±0.004	0.007±0.006
59.5	-0.4±0.3	0.4±0.2	-0.12±0.01	-1.18±0.02	1.031±0.007	1.031±0.007	0.008±0.004	0.007±0.006
64.6	-0.3±0.3	0.4±0.2	-0.08±0.01	-1.18±0.02	1.047±0.007	1.047±0.007	0.008±0.004	0.005±0.006
69.7	-0.3±0.3	0.4±0.2	-0.06±0.01	-1.18±0.02	1.061±0.007	1.060±0.007	0.008±0.004	0.006±0.006
74.8	-0.3±0.3	0.4±0.2	-0.03±0.01	-1.18±0.02	1.071±0.007	1.071±0.007	0.008±0.004	0.005±0.006
79.9	-0.3±0.3	0.5±0.2	-0.01±0.01	-1.18±0.02	1.078±0.007	1.078±0.007	0.009±0.004	0.005±0.006
84.9	-0.3±0.3	0.6±0.2	0.00±0.01	-1.18±0.02	1.084±0.007	1.084±0.007	0.010±0.004	0.005±0.006
90.0	-0.3±0.3	0.6±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	0.011±0.004	0.005±0.006
100.2	-0.3±0.3	0.5±0.2	0.01±0.01	-1.17±0.02	1.088±0.007	1.088±0.007	0.009±0.004	0.005±0.006
110.3	-0.2±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.008±0.004	0.004±0.006
120.5	-0.2±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.008±0.004	0.003±0.006
130.7	-0.1±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.007±0.004	0.001±0.006
140.8	0.0±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.007±0.004	0.000±0.006

Table B.85 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.5±0.3	1.0±0.6	-0.72±0.01	-1.18±0.02	0.677±0.007	0.677±0.007	0.011±0.007	-0.006±0.004
4.7	0.5±0.3	0.5±0.5	-0.69±0.01	-1.18±0.02	0.698±0.007	0.698±0.007	0.006±0.006	-0.006±0.004
5.7	0.5±0.3	0.3±0.5	-0.66±0.01	-1.18±0.02	0.719±0.007	0.718±0.007	0.004±0.006	-0.006±0.004
6.7	0.3±0.3	0.3±0.5	-0.64±0.01	-1.18±0.02	0.734±0.007	0.734±0.007	0.004±0.006	-0.004±0.004
7.7	0.3±0.3	0.3±0.4	-0.62±0.01	-1.19±0.02	0.751±0.007	0.751±0.007	0.003±0.006	-0.004±0.004
8.7	0.3±0.3	0.1±0.4	-0.60±0.01	-1.18±0.02	0.761±0.007	0.761±0.007	0.002±0.006	-0.003±0.004
9.8	0.3±0.3	0.1±0.4	-0.58±0.01	-1.18±0.02	0.771±0.007	0.771±0.007	0.002±0.006	-0.003±0.004
10.8	0.2±0.3	0.1±0.4	-0.57±0.01	-1.18±0.02	0.787±0.007	0.787±0.007	0.001±0.006	-0.003±0.004
11.8	0.2±0.3	0.0±0.4	-0.54±0.01	-1.18±0.02	0.796±0.007	0.796±0.007	0.000±0.006	-0.003±0.004
12.8	0.1±0.3	0.1±0.4	-0.54±0.01	-1.19±0.02	0.809±0.007	0.809±0.007	0.001±0.005	-0.002±0.004
13.8	0.2±0.3	0.2±0.4	-0.52±0.01	-1.18±0.02	0.814±0.007	0.814±0.007	0.003±0.005	-0.003±0.004
16.4	0.1±0.3	0.1±0.4	-0.49±0.01	-1.19±0.02	0.836±0.007	0.836±0.007	0.001±0.005	-0.001±0.005
18.9	0.0±0.3	0.1±0.3	-0.46±0.01	-1.19±0.02	0.852±0.007	0.852±0.007	0.002±0.005	-0.001±0.005
21.4	0.0±0.3	0.3±0.3	-0.43±0.01	-1.18±0.02	0.869±0.007	0.869±0.007	0.004±0.005	0.000±0.005
24.0	0.0±0.3	0.3±0.3	-0.40±0.01	-1.19±0.02	0.883±0.006	0.883±0.006	0.004±0.005	0.001±0.005
26.5	-0.1±0.3	0.3±0.3	-0.38±0.01	-1.19±0.02	0.897±0.006	0.897±0.006	0.004±0.005	0.001±0.005
29.1	-0.2±0.3	0.3±0.3	-0.35±0.01	-1.18±0.02	0.909±0.006	0.909±0.006	0.005±0.005	0.002±0.005
31.6	-0.2±0.3	0.3±0.3	-0.33±0.01	-1.18±0.02	0.923±0.006	0.923±0.006	0.005±0.005	0.002±0.005
34.1	-0.2±0.3	0.4±0.3	-0.31±0.01	-1.18±0.02	0.933±0.006	0.933±0.006	0.006±0.005	0.004±0.005
36.7	-0.2±0.3	0.4±0.3	-0.29±0.01	-1.18±0.02	0.942±0.006	0.942±0.006	0.006±0.005	0.004±0.005
39.2	-0.3±0.3	0.4±0.3	-0.27±0.01	-1.18±0.02	0.956±0.006	0.956±0.006	0.006±0.005	0.006±0.005
44.3	-0.4±0.3	0.4±0.3	-0.22±0.01	-1.18±0.02	0.979±0.006	0.979±0.006	0.007±0.005	0.006±0.005
49.4	-0.4±0.3	0.4±0.3	-0.19±0.01	-1.18±0.02	0.997±0.006	0.997±0.006	0.007±0.004	0.007±0.006
54.5	-0.4±0.3	0.4±0.2	-0.14±0.01	-1.18±0.02	1.018±0.007	1.018±0.007	0.008±0.004	0.008±0.006
59.5	-0.4±0.3	0.4±0.2	-0.11±0.01	-1.18±0.02	1.034±0.007	1.034±0.007	0.008±0.004	0.008±0.006
64.6	-0.5±0.3	0.4±0.2	-0.07±0.01	-1.18±0.02	1.050±0.007	1.050±0.007	0.008±0.004	0.009±0.006
69.7	-0.4±0.3	0.4±0.2	-0.04±0.01	-1.17±0.02	1.064±0.007	1.063±0.007	0.008±0.004	0.008±0.006
74.8	-0.4±0.3	0.5±0.2	-0.02±0.01	-1.18±0.02	1.074±0.007	1.074±0.007	0.009±0.004	0.008±0.006
79.9	-0.5±0.3	0.5±0.2	-0.01±0.01	-1.18±0.02	1.081±0.007	1.081±0.007	0.009±0.004	0.009±0.006
84.9	-0.4±0.3	0.5±0.2	0.00±0.01	-1.18±0.02	1.085±0.007	1.085±0.007	0.009±0.004	0.008±0.006
90.0	-0.4±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.088±0.007	0.008±0.004	0.008±0.006
100.2	-0.4±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.008±0.004	0.007±0.006
110.3	-0.3±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.008±0.004	0.006±0.006
120.5	-0.2±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.008±0.004	0.004±0.006
130.7	-0.2±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.007±0.004	0.003±0.006
140.8	-0.2±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.090±0.007	0.007±0.004	0.004±0.006

Table B.86 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.9±0.3	1.0±0.6	-0.76±0.01	-1.18±0.02	0.644±0.007	0.644±0.007	0.011±0.007	-0.011±0.004
4.7	0.8±0.3	0.5±0.6	-0.73±0.01	-1.17±0.02	0.669±0.007	0.669±0.007	0.006±0.007	-0.009±0.004
5.7	0.7±0.3	0.4±0.5	-0.71±0.01	-1.19±0.02	0.689±0.007	0.689±0.007	0.004±0.006	-0.008±0.004
6.7	0.5±0.3	0.3±0.5	-0.68±0.01	-1.18±0.02	0.703±0.007	0.703±0.007	0.004±0.006	-0.007±0.004
7.7	0.5±0.3	0.3±0.5	-0.66±0.01	-1.18±0.02	0.716±0.007	0.716±0.007	0.004±0.006	-0.006±0.004
8.7	0.5±0.3	0.3±0.5	-0.65±0.01	-1.18±0.02	0.728±0.007	0.728±0.007	0.004±0.006	-0.006±0.004
9.8	0.4±0.3	0.3±0.5	-0.63±0.01	-1.19±0.02	0.747±0.007	0.747±0.007	0.004±0.006	-0.006±0.004
10.8	0.4±0.3	0.3±0.4	-0.61±0.01	-1.18±0.02	0.754±0.007	0.754±0.007	0.004±0.006	-0.005±0.004
11.8	0.4±0.3	0.3±0.4	-0.60±0.01	-1.18±0.02	0.758±0.007	0.758±0.007	0.004±0.006	-0.005±0.004
12.8	0.4±0.3	0.3±0.4	-0.58±0.01	-1.19±0.02	0.779±0.007	0.779±0.007	0.004±0.006	-0.005±0.004
13.8	0.2±0.3	0.3±0.4	-0.57±0.01	-1.18±0.02	0.780±0.007	0.780±0.007	0.005±0.006	-0.003±0.004
16.4	0.3±0.3	0.4±0.4	-0.54±0.01	-1.19±0.02	0.805±0.007	0.805±0.007	0.005±0.006	-0.004±0.004
18.9	0.2±0.3	0.4±0.4	-0.51±0.01	-1.19±0.02	0.825±0.007	0.825±0.007	0.005±0.005	-0.003±0.005
21.4	0.2±0.3	0.4±0.4	-0.48±0.01	-1.17±0.02	0.831±0.007	0.831±0.007	0.006±0.005	-0.003±0.005
24.0	0.1±0.3	0.4±0.3	-0.45±0.01	-1.18±0.02	0.853±0.007	0.853±0.007	0.006±0.005	-0.002±0.005
26.5	0.1±0.3	0.4±0.3	-0.43±0.01	-1.19±0.02	0.874±0.007	0.874±0.007	0.006±0.005	-0.001±0.005
29.1	0.0±0.3	0.4±0.3	-0.39±0.01	-1.18±0.02	0.886±0.007	0.886±0.007	0.007±0.005	0.000±0.005
31.6	-0.1±0.3	0.4±0.3	-0.36±0.01	-1.17±0.02	0.904±0.007	0.904±0.007	0.007±0.005	0.001±0.005
34.1	-0.2±0.3	0.5±0.3	-0.34±0.01	-1.18±0.02	0.917±0.007	0.917±0.007	0.007±0.005	0.003±0.005
36.7	-0.2±0.3	0.5±0.3	-0.32±0.01	-1.18±0.02	0.928±0.007	0.928±0.007	0.007±0.005	0.003±0.005
39.2	-0.3±0.3	0.5±0.3	-0.28±0.01	-1.17±0.02	0.943±0.007	0.943±0.006	0.009±0.005	0.004±0.005
44.3	-0.4±0.3	0.6±0.3	-0.24±0.01	-1.18±0.02	0.968±0.007	0.968±0.007	0.009±0.005	0.006±0.005
49.4	-0.4±0.3	0.6±0.3	-0.20±0.01	-1.17±0.02	0.988±0.007	0.988±0.007	0.011±0.005	0.007±0.005
54.5	-0.4±0.3	0.6±0.3	-0.16±0.01	-1.17±0.02	1.008±0.007	1.007±0.007	0.011±0.004	0.008±0.006
59.5	-0.6±0.3	0.6±0.2	-0.12±0.01	-1.18±0.02	1.027±0.007	1.027±0.007	0.010±0.004	0.010±0.006
64.6	-0.5±0.3	0.5±0.2	-0.09±0.01	-1.19±0.02	1.045±0.007	1.045±0.007	0.009±0.004	0.009±0.006
69.7	-0.6±0.3	0.5±0.2	-0.06±0.01	-1.18±0.02	1.059±0.007	1.059±0.007	0.009±0.004	0.010±0.006
74.8	-0.6±0.3	0.6±0.2	-0.03±0.01	-1.18±0.02	1.072±0.007	1.072±0.007	0.011±0.004	0.010±0.006
79.9	-0.6±0.3	0.5±0.2	-0.01±0.01	-1.18±0.02	1.078±0.007	1.078±0.007	0.009±0.004	0.010±0.006
84.9	-0.6±0.3	0.6±0.2	0.00±0.01	-1.18±0.02	1.083±0.007	1.083±0.007	0.011±0.004	0.010±0.006
90.0	-0.5±0.3	0.5±0.2	0.00±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.010±0.004	0.009±0.006
100.2	-0.4±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.008±0.004	0.008±0.006
110.3	-0.3±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.088±0.007	0.008±0.004	0.006±0.006
120.5	-0.3±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.088±0.007	1.087±0.007	0.007±0.004	0.006±0.006
130.7	-0.3±0.3	0.3±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.088±0.007	0.006±0.004	0.005±0.006
140.8	-0.2±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.004±0.004	0.004±0.006

Table B.87 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-114 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	1.6±0.3	1.2±0.7	-0.81±0.01	-1.17±0.02	0.603±0.008	0.603±0.008	0.012±0.007	-0.017±0.003
4.7	1.5±0.3	0.6±0.6	-0.79±0.01	-1.18±0.02	0.626±0.007	0.626±0.007	0.007±0.007	-0.016±0.003
5.7	1.3±0.3	0.4±0.6	-0.77±0.01	-1.18±0.02	0.640±0.007	0.640±0.007	0.005±0.007	-0.014±0.004
6.7	1.0±0.3	0.5±0.6	-0.75±0.01	-1.18±0.02	0.658±0.007	0.658±0.007	0.005±0.007	-0.012±0.004
7.7	0.9±0.3	0.5±0.6	-0.73±0.01	-1.18±0.02	0.672±0.007	0.672±0.007	0.006±0.007	-0.010±0.004
8.7	0.8±0.3	0.4±0.5	-0.71±0.01	-1.18±0.02	0.682±0.007	0.682±0.007	0.005±0.006	-0.010±0.004
9.8	0.6±0.3	0.5±0.5	-0.70±0.01	-1.18±0.02	0.697±0.007	0.697±0.007	0.006±0.006	-0.008±0.004
10.8	0.6±0.3	0.4±0.5	-0.68±0.01	-1.18±0.02	0.709±0.007	0.709±0.007	0.005±0.006	-0.007±0.004
11.8	0.5±0.3	0.5±0.5	-0.67±0.01	-1.18±0.02	0.717±0.007	0.717±0.007	0.006±0.006	-0.007±0.004
12.8	0.5±0.3	0.5±0.5	-0.65±0.01	-1.18±0.02	0.730±0.007	0.730±0.007	0.006±0.006	-0.007±0.004
13.8	0.3±0.3	0.5±0.5	-0.64±0.01	-1.19±0.02	0.742±0.007	0.742±0.007	0.006±0.006	-0.004±0.004
16.4	0.2±0.3	0.5±0.4	-0.60±0.01	-1.18±0.02	0.762±0.007	0.762±0.007	0.007±0.006	-0.003±0.004
18.9	0.1±0.3	0.7±0.4	-0.56±0.01	-1.18±0.02	0.784±0.007	0.784±0.007	0.009±0.006	-0.001±0.004
21.4	0.0±0.3	0.8±0.4	-0.53±0.01	-1.17±0.02	0.801±0.007	0.801±0.007	0.011±0.006	0.000±0.004
24.0	-0.1±0.3	0.7±0.4	-0.50±0.01	-1.18±0.02	0.822±0.007	0.822±0.007	0.009±0.005	0.002±0.005
26.5	-0.3±0.3	0.7±0.4	-0.47±0.01	-1.18±0.02	0.842±0.007	0.842±0.007	0.011±0.005	0.004±0.005
29.1	-0.3±0.3	0.7±0.3	-0.44±0.01	-1.18±0.02	0.859±0.007	0.859±0.007	0.011±0.005	0.005±0.005
31.6	-0.5±0.3	0.8±0.3	-0.41±0.01	-1.18±0.02	0.879±0.007	0.878±0.007	0.012±0.005	0.008±0.005
34.1	-0.5±0.3	0.7±0.3	-0.38±0.01	-1.18±0.02	0.893±0.006	0.893±0.006	0.012±0.005	0.008±0.005
36.7	-0.7±0.3	0.7±0.3	-0.35±0.01	-1.18±0.02	0.912±0.006	0.912±0.006	0.011±0.005	0.011±0.005
39.2	-0.7±0.3	0.7±0.3	-0.33±0.01	-1.18±0.02	0.926±0.006	0.926±0.006	0.012±0.005	0.011±0.005
44.3	-0.7±0.3	0.7±0.3	-0.27±0.01	-1.18±0.02	0.955±0.006	0.955±0.006	0.012±0.005	0.012±0.005
49.4	-0.8±0.3	0.7±0.3	-0.22±0.01	-1.18±0.02	0.981±0.006	0.980±0.006	0.012±0.005	0.013±0.005
54.5	-0.9±0.3	0.7±0.3	-0.18±0.01	-1.17±0.02	0.999±0.006	0.998±0.006	0.012±0.004	0.015±0.006
59.5	-0.9±0.3	0.7±0.2	-0.14±0.01	-1.18±0.02	1.020±0.007	1.020±0.007	0.012±0.004	0.016±0.006
64.6	-1.0±0.3	0.6±0.2	-0.09±0.01	-1.17±0.02	1.037±0.007	1.036±0.007	0.012±0.004	0.018±0.006
69.7	-1.0±0.3	0.6±0.2	-0.07±0.01	-1.18±0.02	1.055±0.007	1.054±0.007	0.012±0.004	0.017±0.006
74.8	-0.9±0.3	0.6±0.2	-0.04±0.01	-1.18±0.02	1.067±0.007	1.067±0.007	0.012±0.004	0.017±0.006
79.9	-0.9±0.3	0.6±0.2	-0.02±0.01	-1.18±0.02	1.076±0.007	1.076±0.007	0.011±0.004	0.017±0.006
84.9	-0.9±0.3	0.6±0.2	0.00±0.01	-1.17±0.02	1.080±0.007	1.080±0.007	0.011±0.004	0.017±0.006
90.0	-0.8±0.3	0.6±0.2	0.00±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.011±0.004	0.015±0.006
100.2	-0.8±0.3	0.5±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.010±0.004	0.015±0.006
110.3	-0.7±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.008±0.004	0.013±0.006
120.5	-0.6±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.008±0.004	0.012±0.006
130.7	-0.6±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.088±0.007	1.088±0.007	0.008±0.004	0.012±0.006
140.8	-0.6±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.008±0.004	0.011±0.006

Table B.88 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.2±0.3	1.1±0.7	-0.83±0.01	-1.18±0.02	0.588±0.008	0.587±0.008	0.012±0.008	-0.033±0.003
4.7	2.9±0.3	0.5±0.7	-0.81±0.01	-1.18±0.02	0.603±0.008	0.602±0.008	0.005±0.007	-0.031±0.003
5.7	2.6±0.3	0.5±0.7	-0.79±0.01	-1.18±0.02	0.621±0.008	0.620±0.008	0.005±0.007	-0.028±0.003
6.7	2.4±0.3	0.4±0.6	-0.78±0.01	-1.18±0.02	0.634±0.007	0.633±0.007	0.005±0.007	-0.026±0.004
7.7	2.1±0.3	0.4±0.6	-0.77±0.01	-1.18±0.02	0.646±0.007	0.646±0.007	0.005±0.007	-0.024±0.004
8.7	1.9±0.3	0.4±0.6	-0.75±0.01	-1.19±0.02	0.663±0.007	0.663±0.007	0.005±0.007	-0.022±0.004
9.8	1.6±0.3	0.4±0.6	-0.73±0.01	-1.19±0.02	0.676±0.007	0.675±0.007	0.005±0.007	-0.019±0.004
10.8	1.5±0.3	0.4±0.5	-0.72±0.01	-1.19±0.02	0.683±0.007	0.683±0.007	0.005±0.007	-0.017±0.004
11.8	1.3±0.3	0.5±0.5	-0.70±0.01	-1.18±0.02	0.693±0.007	0.693±0.007	0.006±0.006	-0.016±0.004
12.8	1.2±0.3	0.5±0.5	-0.69±0.01	-1.18±0.02	0.704±0.007	0.704±0.007	0.006±0.006	-0.014±0.004
13.8	1.0±0.3	0.4±0.5	-0.67±0.01	-1.19±0.02	0.716±0.007	0.716±0.007	0.006±0.006	-0.012±0.004
16.4	0.7±0.3	0.6±0.5	-0.63±0.01	-1.18±0.02	0.744±0.007	0.744±0.007	0.007±0.006	-0.010±0.004
18.9	0.5±0.3	0.7±0.4	-0.60±0.01	-1.18±0.02	0.765±0.007	0.765±0.007	0.009±0.006	-0.006±0.004
21.4	0.2±0.3	0.7±0.4	-0.56±0.01	-1.18±0.02	0.786±0.007	0.786±0.007	0.009±0.006	-0.002±0.004
24.0	0.0±0.3	0.8±0.4	-0.53±0.01	-1.19±0.02	0.808±0.007	0.808±0.007	0.011±0.006	0.000±0.004
26.5	-0.2±0.3	0.8±0.4	-0.50±0.01	-1.19±0.02	0.827±0.007	0.826±0.007	0.012±0.005	0.003±0.005
29.1	-0.4±0.3	0.8±0.4	-0.46±0.01	-1.18±0.02	0.849±0.007	0.849±0.007	0.012±0.005	0.006±0.005
31.6	-0.5±0.3	0.8±0.3	-0.44±0.01	-1.18±0.02	0.863±0.007	0.863±0.007	0.012±0.005	0.008±0.005
34.1	-0.7±0.3	0.8±0.3	-0.40±0.01	-1.18±0.02	0.882±0.007	0.881±0.007	0.012±0.005	0.010±0.005
36.7	-0.7±0.3	0.7±0.3	-0.37±0.01	-1.18±0.02	0.902±0.007	0.902±0.007	0.012±0.005	0.012±0.005
39.2	-0.8±0.3	0.8±0.3	-0.34±0.01	-1.17±0.02	0.913±0.007	0.913±0.007	0.012±0.005	0.013±0.005
44.3	-0.9±0.3	0.7±0.3	-0.28±0.01	-1.18±0.02	0.947±0.007	0.947±0.007	0.012±0.005	0.015±0.005
49.4	-1.0±0.3	0.7±0.3	-0.24±0.01	-1.18±0.02	0.972±0.007	0.972±0.007	0.012±0.005	0.017±0.005
54.5	-1.0±0.3	0.7±0.3	-0.18±0.01	-1.17±0.02	0.994±0.007	0.994±0.007	0.012±0.004	0.018±0.005
59.5	-1.0±0.3	0.7±0.2	-0.14±0.01	-1.18±0.02	1.016±0.007	1.016±0.007	0.012±0.004	0.018±0.006
64.6	-1.0±0.3	0.6±0.2	-0.10±0.01	-1.18±0.02	1.037±0.007	1.037±0.007	0.011±0.004	0.019±0.006
69.7	-1.0±0.3	0.6±0.2	-0.07±0.01	-1.17±0.02	1.050±0.007	1.050±0.007	0.011±0.004	0.019±0.006
74.8	-1.0±0.3	0.6±0.2	-0.04±0.01	-1.17±0.02	1.063±0.007	1.063±0.007	0.012±0.004	0.018±0.006
79.9	-1.0±0.3	0.6±0.2	-0.02±0.01	-1.18±0.02	1.075±0.007	1.075±0.007	0.011±0.004	0.018±0.006
84.9	-0.9±0.3	0.5±0.2	0.00±0.01	-1.17±0.02	1.080±0.007	1.080±0.007	0.010±0.004	0.017±0.006
90.0	-0.9±0.3	0.6±0.2	0.00±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.011±0.004	0.017±0.006
100.2	-0.7±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.088±0.007	0.008±0.004	0.014±0.006
110.3	-0.7±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.008±0.004	0.013±0.006
120.5	-0.6±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.008±0.004	0.012±0.006
130.7	-0.7±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	0.007±0.004	0.013±0.006
140.8	-0.6±0.3	0.3±0.2	0.01±0.01	-1.17±0.02	1.088±0.007	1.087±0.007	0.007±0.004	0.011±0.006

Table B.89 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-95 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.9±0.3	1.2±0.7	-0.83±0.01	-1.17±0.02	0.581±0.008	0.580±0.008	0.012±0.008	-0.040±0.003
4.7	3.6±0.3	0.9±0.7	-0.81±0.01	-1.17±0.02	0.600±0.008	0.599±0.008	0.010±0.007	-0.037±0.003
5.7	3.3±0.3	0.5±0.7	-0.80±0.01	-1.17±0.02	0.614±0.008	0.613±0.008	0.005±0.007	-0.035±0.003
6.7	3.0±0.3	0.5±0.7	-0.78±0.01	-1.16±0.02	0.620±0.007	0.620±0.007	0.005±0.007	-0.032±0.003
7.7	2.6±0.3	0.5±0.6	-0.76±0.01	-1.17±0.02	0.639±0.007	0.639±0.007	0.005±0.007	-0.029±0.004
8.7	2.4±0.3	0.5±0.6	-0.75±0.01	-1.17±0.02	0.647±0.007	0.646±0.007	0.005±0.007	-0.027±0.004
9.8	2.1±0.3	0.5±0.6	-0.74±0.01	-1.17±0.02	0.658±0.007	0.658±0.007	0.005±0.007	-0.024±0.004
10.8	1.8±0.3	0.4±0.6	-0.72±0.01	-1.16±0.02	0.661±0.007	0.660±0.007	0.005±0.007	-0.021±0.004
11.8	1.6±0.3	0.5±0.5	-0.70±0.01	-1.17±0.02	0.679±0.007	0.679±0.007	0.006±0.006	-0.019±0.004
12.8	1.4±0.3	0.5±0.5	-0.69±0.01	-1.16±0.02	0.684±0.007	0.684±0.007	0.006±0.006	-0.017±0.004
13.8	1.2±0.3	0.5±0.5	-0.68±0.01	-1.16±0.02	0.692±0.007	0.692±0.007	0.006±0.006	-0.014±0.004
16.4	0.8±0.3	0.7±0.5	-0.64±0.01	-1.16±0.02	0.720±0.007	0.720±0.007	0.008±0.006	-0.010±0.004
18.9	0.4±0.3	0.8±0.5	-0.62±0.01	-1.17±0.02	0.743±0.007	0.743±0.007	0.010±0.006	-0.006±0.004
21.4	0.1±0.3	0.8±0.4	-0.58±0.01	-1.17±0.02	0.765±0.007	0.765±0.007	0.011±0.006	-0.001±0.004
24.0	-0.1±0.3	0.9±0.4	-0.55±0.01	-1.17±0.02	0.787±0.007	0.787±0.007	0.012±0.006	0.001±0.004
26.5	-0.4±0.3	0.8±0.4	-0.51±0.01	-1.16±0.02	0.807±0.007	0.807±0.007	0.012±0.005	0.006±0.004
29.1	-0.7±0.3	0.8±0.4	-0.47±0.01	-1.15±0.02	0.825±0.007	0.825±0.007	0.012±0.005	0.009±0.005
31.6	-0.7±0.3	0.8±0.4	-0.46±0.01	-1.17±0.02	0.843±0.007	0.843±0.007	0.012±0.005	0.011±0.005
34.1	-0.9±0.3	0.8±0.3	-0.40±0.01	-1.14±0.02	0.859±0.006	0.858±0.006	0.012±0.005	0.013±0.005
36.7	-1.0±0.3	0.8±0.3	-0.39±0.01	-1.17±0.02	0.885±0.006	0.885±0.006	0.012±0.005	0.015±0.005
39.2	-1.1±0.3	0.7±0.3	-0.35±0.01	-1.16±0.02	0.898±0.006	0.898±0.006	0.012±0.005	0.017±0.005
44.3	-1.2±0.3	0.7±0.3	-0.29±0.01	-1.15±0.02	0.927±0.006	0.927±0.006	0.012±0.005	0.019±0.005
49.4	-1.2±0.3	0.7±0.3	-0.25±0.01	-1.16±0.02	0.955±0.006	0.955±0.006	0.012±0.005	0.021±0.005
54.5	-1.3±0.3	0.7±0.3	-0.20±0.01	-1.16±0.02	0.976±0.006	0.976±0.006	0.012±0.005	0.022±0.005
59.5	-1.3±0.3	0.7±0.3	-0.16±0.01	-1.16±0.02	0.998±0.006	0.998±0.006	0.011±0.004	0.023±0.006
64.6	-1.3±0.3	0.7±0.2	-0.12±0.01	-1.16±0.02	1.019±0.006	1.018±0.006	0.012±0.004	0.022±0.006
69.7	-1.3±0.3	0.6±0.2	-0.09±0.01	-1.16±0.02	1.034±0.006	1.034±0.006	0.011±0.004	0.023±0.006
74.8	-1.3±0.3	0.6±0.2	-0.06±0.01	-1.16±0.02	1.048±0.007	1.047±0.007	0.011±0.004	0.023±0.006
79.9	-1.2±0.3	0.6±0.2	-0.03±0.01	-1.16±0.02	1.062±0.007	1.061±0.007	0.012±0.004	0.023±0.006
84.9	-1.2±0.3	0.6±0.2	-0.01±0.01	-1.16±0.02	1.068±0.007	1.068±0.007	0.011±0.004	0.021±0.006
90.0	-1.1±0.3	0.4±0.2	0.00±0.01	-1.15±0.02	1.072±0.007	1.072±0.007	0.008±0.004	0.021±0.006
100.2	-1.0±0.3	0.4±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	0.008±0.004	0.019±0.006
110.3	-0.9±0.3	0.4±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	0.008±0.004	0.018±0.006
120.5	-0.9±0.3	0.4±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	0.008±0.004	0.016±0.006
130.7	-0.9±0.3	0.4±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	0.007±0.004	0.016±0.006
140.8	-0.8±0.3	0.4±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	0.007±0.004	0.016±0.006

Table B.90 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.8±0.3	1.3±0.7	-0.82±0.01	-1.17±0.02	0.588±0.008	0.586±0.008	0.013±0.007	-0.049±0.003
4.7	4.4±0.3	1.2±0.7	-0.81±0.01	-1.17±0.02	0.601±0.008	0.599±0.008	0.012±0.007	-0.046±0.003
5.7	4.0±0.3	1.0±0.7	-0.79±0.01	-1.17±0.02	0.615±0.007	0.614±0.007	0.011±0.007	-0.043±0.003
6.7	3.7±0.3	1.0±0.6	-0.77±0.01	-1.17±0.02	0.628±0.007	0.627±0.007	0.011±0.007	-0.041±0.003
7.7	3.3±0.3	0.9±0.6	-0.76±0.01	-1.17±0.02	0.641±0.007	0.640±0.007	0.010±0.007	-0.037±0.004
8.7	3.0±0.3	0.9±0.6	-0.75±0.01	-1.17±0.02	0.651±0.007	0.650±0.007	0.011±0.007	-0.034±0.004
9.8	2.6±0.3	1.0±0.6	-0.74±0.01	-1.18±0.02	0.657±0.007	0.657±0.007	0.011±0.007	-0.030±0.004
10.8	2.3±0.3	0.8±0.6	-0.73±0.01	-1.17±0.02	0.665±0.007	0.665±0.007	0.010±0.007	-0.027±0.004
11.8	2.1±0.3	0.9±0.6	-0.72±0.01	-1.17±0.02	0.671±0.007	0.671±0.007	0.011±0.007	-0.024±0.004
12.8	1.5±0.3	1.0±0.5	-0.70±0.01	-1.17±0.02	0.685±0.007	0.684±0.007	0.012±0.006	-0.018±0.004
13.8	1.4±0.3	1.0±0.5	-0.69±0.01	-1.17±0.02	0.692±0.007	0.692±0.007	0.012±0.006	-0.017±0.004
16.4	1.0±0.3	0.9±0.5	-0.65±0.01	-1.16±0.02	0.716±0.007	0.716±0.007	0.012±0.006	-0.012±0.004
18.9	0.4±0.3	0.9±0.5	-0.62±0.01	-1.17±0.02	0.739±0.007	0.739±0.007	0.012±0.006	-0.005±0.004
21.4	0.1±0.3	0.9±0.4	-0.59±0.01	-1.17±0.02	0.761±0.007	0.761±0.007	0.012±0.006	-0.002±0.004
24.0	-0.2±0.3	0.8±0.4	-0.56±0.01	-1.17±0.02	0.781±0.007	0.781±0.007	0.011±0.006	0.002±0.004
26.5	-0.4±0.3	0.8±0.4	-0.52±0.01	-1.17±0.02	0.805±0.007	0.804±0.007	0.012±0.005	0.005±0.004
29.1	-0.7±0.3	0.8±0.4	-0.49±0.01	-1.16±0.02	0.822±0.007	0.822±0.007	0.011±0.005	0.009±0.005
31.6	-0.9±0.3	0.8±0.4	-0.46±0.01	-1.16±0.02	0.840±0.006	0.840±0.006	0.012±0.005	0.013±0.005
34.1	-0.9±0.3	0.8±0.3	-0.43±0.01	-1.17±0.02	0.865±0.006	0.864±0.006	0.012±0.005	0.014±0.005
36.7	-1.1±0.3	0.8±0.3	-0.39±0.01	-1.17±0.02	0.880±0.006	0.880±0.006	0.012±0.005	0.016±0.005
39.2	-1.2±0.3	0.7±0.3	-0.36±0.01	-1.16±0.02	0.896±0.006	0.895±0.006	0.012±0.005	0.018±0.005
44.3	-1.3±0.3	0.7±0.3	-0.29±0.01	-1.16±0.02	0.928±0.006	0.927±0.006	0.011±0.005	0.021±0.005
49.4	-1.3±0.3	0.7±0.3	-0.25±0.01	-1.17±0.02	0.958±0.006	0.957±0.006	0.011±0.005	0.022±0.005
54.5	-1.3±0.3	0.6±0.3	-0.21±0.01	-1.17±0.02	0.982±0.006	0.982±0.006	0.010±0.004	0.023±0.005
59.5	-1.3±0.3	0.6±0.2	-0.16±0.01	-1.17±0.02	1.005±0.006	1.005±0.006	0.010±0.004	0.023±0.006
64.6	-1.3±0.3	0.5±0.2	-0.12±0.01	-1.16±0.02	1.021±0.006	1.021±0.006	0.009±0.004	0.023±0.006
69.7	-1.3±0.3	0.5±0.2	-0.08±0.01	-1.16±0.02	1.038±0.006	1.038±0.006	0.008±0.004	0.023±0.006
74.8	-1.3±0.3	0.4±0.2	-0.05±0.01	-1.16±0.02	1.051±0.006	1.051±0.006	0.008±0.004	0.023±0.006
79.9	-1.2±0.3	0.4±0.2	-0.03±0.01	-1.16±0.02	1.063±0.007	1.062±0.007	0.008±0.004	0.022±0.006
84.9	-1.2±0.3	0.4±0.2	-0.01±0.01	-1.16±0.02	1.070±0.007	1.070±0.007	0.008±0.004	0.022±0.006
90.0	-1.1±0.3	0.4±0.2	0.00±0.01	-1.15±0.02	1.075±0.007	1.074±0.007	0.008±0.004	0.020±0.006
100.2	-1.0±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.079±0.007	0.008±0.004	0.018±0.006
110.3	-0.9±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.008±0.004	0.017±0.006
120.5	-0.8±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.007±0.004	0.016±0.006
130.7	-0.8±0.3	0.3±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.007±0.004	0.015±0.006
140.8	-0.7±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.007±0.004	0.014±0.006

Table B.91 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-83 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.1±0.3	1.7±0.7	-0.78±0.01	-1.17±0.02	0.618±0.007	0.614±0.007	0.019±0.007	-0.066±0.003
4.7	5.7±0.3	1.3±0.6	-0.77±0.01	-1.16±0.02	0.630±0.007	0.626±0.007	0.014±0.007	-0.063±0.004
5.7	5.2±0.3	1.1±0.6	-0.76±0.01	-1.17±0.02	0.641±0.007	0.638±0.007	0.012±0.007	-0.058±0.004
6.7	4.7±0.3	1.1±0.6	-0.74±0.01	-1.16±0.02	0.648±0.007	0.646±0.007	0.012±0.007	-0.053±0.004
7.7	4.2±0.3	1.1±0.6	-0.74±0.01	-1.17±0.02	0.658±0.007	0.656±0.007	0.012±0.007	-0.048±0.004
8.7	3.8±0.3	1.0±0.6	-0.72±0.01	-1.16±0.02	0.663±0.007	0.662±0.007	0.012±0.007	-0.044±0.004
9.8	3.3±0.3	1.0±0.6	-0.71±0.01	-1.17±0.02	0.673±0.007	0.672±0.007	0.012±0.006	-0.039±0.004
10.8	2.9±0.3	1.0±0.5	-0.71±0.01	-1.17±0.02	0.678±0.007	0.677±0.007	0.012±0.006	-0.035±0.004
11.8	2.5±0.3	1.0±0.5	-0.70±0.01	-1.17±0.02	0.684±0.007	0.683±0.007	0.012±0.006	-0.030±0.004
12.8	2.3±0.3	1.0±0.5	-0.69±0.01	-1.17±0.02	0.690±0.007	0.689±0.007	0.012±0.006	-0.027±0.004
13.8	2.0±0.3	1.0±0.5	-0.68±0.01	-1.17±0.02	0.697±0.007	0.696±0.007	0.012±0.006	-0.024±0.004
16.4	1.3±0.3	0.9±0.5	-0.66±0.01	-1.17±0.02	0.716±0.007	0.716±0.007	0.012±0.006	-0.016±0.004
18.9	0.7±0.3	0.9±0.5	-0.62±0.01	-1.17±0.02	0.739±0.007	0.739±0.007	0.012±0.006	-0.009±0.004
21.4	0.2±0.3	0.8±0.4	-0.59±0.01	-1.16±0.02	0.754±0.007	0.754±0.007	0.011±0.006	-0.003±0.004
24.0	-0.3±0.3	0.8±0.4	-0.56±0.01	-1.16±0.02	0.777±0.007	0.777±0.007	0.011±0.006	0.004±0.004
26.5	-0.5±0.3	0.7±0.4	-0.53±0.01	-1.17±0.02	0.800±0.007	0.800±0.007	0.009±0.005	0.006±0.004
29.1	-0.6±0.3	0.5±0.4	-0.48±0.01	-1.15±0.02	0.819±0.007	0.819±0.007	0.007±0.005	0.009±0.005
31.6	-0.8±0.3	0.6±0.4	-0.46±0.01	-1.17±0.02	0.844±0.006	0.844±0.006	0.008±0.005	0.011±0.005
34.1	-0.9±0.3	0.6±0.3	-0.43±0.01	-1.17±0.02	0.860±0.006	0.860±0.006	0.008±0.005	0.014±0.005
36.7	-1.1±0.3	0.5±0.3	-0.40±0.01	-1.17±0.02	0.878±0.006	0.878±0.006	0.008±0.005	0.016±0.005
39.2	-1.2±0.3	0.5±0.3	-0.35±0.01	-1.15±0.02	0.893±0.006	0.893±0.006	0.008±0.005	0.019±0.005
44.3	-1.3±0.3	0.5±0.3	-0.30±0.01	-1.16±0.02	0.926±0.006	0.926±0.006	0.007±0.005	0.021±0.005
49.4	-1.4±0.3	0.4±0.3	-0.25±0.01	-1.16±0.02	0.956±0.006	0.955±0.006	0.007±0.005	0.023±0.005
54.5	-1.3±0.3	0.4±0.3	-0.19±0.01	-1.15±0.02	0.982±0.006	0.982±0.006	0.008±0.004	0.022±0.005
59.5	-1.3±0.3	0.4±0.2	-0.16±0.01	-1.16±0.02	1.000±0.006	1.000±0.006	0.008±0.004	0.023±0.006
64.6	-1.3±0.3	0.4±0.2	-0.12±0.01	-1.15±0.02	1.015±0.006	1.015±0.006	0.008±0.004	0.023±0.006
69.7	-1.3±0.3	0.4±0.2	-0.07±0.01	-1.14±0.02	1.035±0.006	1.035±0.006	0.008±0.004	0.023±0.006
74.8	-1.2±0.3	0.4±0.2	-0.05±0.01	-1.16±0.02	1.051±0.006	1.050±0.006	0.008±0.004	0.022±0.006
79.9	-1.2±0.3	0.4±0.2	-0.03±0.01	-1.16±0.02	1.064±0.006	1.063±0.006	0.007±0.004	0.022±0.006
84.9	-1.1±0.3	0.4±0.2	-0.01±0.01	-1.16±0.02	1.070±0.007	1.070±0.007	0.008±0.004	0.021±0.006
90.0	-1.1±0.3	0.4±0.2	0.00±0.01	-1.15±0.02	1.074±0.007	1.074±0.007	0.008±0.004	0.020±0.006
100.2	-1.0±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.079±0.007	0.007±0.004	0.018±0.006
110.3	-0.9±0.3	0.4±0.2	0.01±0.01	-1.15±0.02	1.079±0.007	1.079±0.007	0.007±0.004	0.016±0.006
120.5	-0.8±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.079±0.007	0.004±0.004	0.015±0.006
130.7	-0.7±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.079±0.007	0.004±0.004	0.013±0.006
140.8	-0.7±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.079±0.007	0.004±0.004	0.013±0.006

Table B.92 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.9±0.3	1.7±0.6	-0.74±0.01	-1.17±0.02	0.652±0.007	0.647±0.007	0.019±0.007	-0.079±0.004
4.7	6.5±0.3	1.3±0.6	-0.73±0.01	-1.17±0.02	0.664±0.007	0.659±0.007	0.015±0.007	-0.076±0.004
5.7	6.0±0.3	1.0±0.6	-0.71±0.01	-1.17±0.02	0.673±0.007	0.670±0.007	0.012±0.007	-0.070±0.004
6.7	5.4±0.3	1.0±0.5	-0.71±0.01	-1.17±0.02	0.684±0.007	0.681±0.007	0.012±0.007	-0.065±0.004
7.7	4.9±0.3	1.0±0.5	-0.70±0.01	-1.17±0.02	0.685±0.007	0.682±0.007	0.012±0.007	-0.058±0.004
8.7	4.3±0.3	1.0±0.5	-0.69±0.01	-1.17±0.02	0.694±0.007	0.692±0.007	0.012±0.006	-0.052±0.004
9.8	4.0±0.3	1.0±0.5	-0.68±0.01	-1.17±0.02	0.694±0.007	0.693±0.007	0.012±0.006	-0.048±0.004
10.8	3.3±0.3	1.0±0.5	-0.68±0.01	-1.17±0.02	0.701±0.007	0.700±0.007	0.012±0.006	-0.041±0.004
11.8	3.0±0.3	1.0±0.5	-0.67±0.01	-1.17±0.02	0.705±0.007	0.704±0.007	0.012±0.006	-0.037±0.004
12.8	2.6±0.3	0.9±0.5	-0.67±0.01	-1.18±0.02	0.713±0.007	0.712±0.007	0.012±0.006	-0.033±0.004
13.8	2.2±0.3	0.9±0.5	-0.66±0.01	-1.17±0.02	0.715±0.007	0.715±0.007	0.012±0.006	-0.028±0.004
16.4	1.4±0.3	0.7±0.5	-0.64±0.01	-1.17±0.02	0.726±0.007	0.726±0.007	0.009±0.006	-0.017±0.004
18.9	0.8±0.3	0.7±0.5	-0.62±0.01	-1.17±0.02	0.742±0.007	0.742±0.007	0.009±0.006	-0.010±0.004
21.4	0.2±0.3	0.5±0.4	-0.58±0.01	-1.17±0.02	0.764±0.007	0.764±0.007	0.007±0.006	-0.002±0.004
24.0	-0.3±0.3	0.4±0.4	-0.55±0.01	-1.16±0.02	0.780±0.007	0.780±0.007	0.006±0.006	0.004±0.004
26.5	-0.5±0.3	0.5±0.4	-0.52±0.01	-1.16±0.02	0.802±0.007	0.802±0.007	0.006±0.006	0.007±0.004
29.1	-0.8±0.3	0.4±0.4	-0.49±0.01	-1.17±0.02	0.826±0.007	0.826±0.007	0.006±0.005	0.012±0.005
31.6	-1.0±0.3	0.4±0.4	-0.45±0.01	-1.16±0.02	0.844±0.007	0.844±0.007	0.006±0.005	0.014±0.005
34.1	-1.1±0.3	0.4±0.3	-0.41±0.01	-1.17±0.02	0.869±0.007	0.868±0.007	0.006±0.005	0.017±0.005
36.7	-1.2±0.3	0.4±0.3	-0.38±0.01	-1.16±0.02	0.882±0.007	0.882±0.007	0.006±0.005	0.019±0.005
39.2	-1.3±0.3	0.4±0.3	-0.35±0.01	-1.16±0.02	0.905±0.007	0.905±0.007	0.006±0.005	0.020±0.005
44.3	-1.4±0.3	0.4±0.3	-0.28±0.01	-1.15±0.02	0.935±0.007	0.935±0.007	0.006±0.005	0.022±0.005
49.4	-1.4±0.3	0.4±0.3	-0.24±0.01	-1.17±0.02	0.964±0.007	0.963±0.007	0.006±0.005	0.023±0.005
54.5	-1.3±0.3	0.4±0.3	-0.18±0.01	-1.15±0.02	0.984±0.007	0.984±0.007	0.006±0.005	0.023±0.005
59.5	-1.3±0.3	0.4±0.2	-0.15±0.01	-1.17±0.02	1.010±0.007	1.010±0.007	0.006±0.004	0.023±0.006
64.6	-1.3±0.3	0.4±0.2	-0.10±0.01	-1.16±0.02	1.028±0.007	1.027±0.007	0.007±0.004	0.023±0.006
69.7	-1.2±0.3	0.4±0.2	-0.07±0.01	-1.16±0.02	1.045±0.007	1.045±0.007	0.007±0.004	0.022±0.006
74.8	-1.2±0.3	0.4±0.2	-0.04±0.01	-1.15±0.02	1.051±0.007	1.051±0.007	0.007±0.004	0.021±0.006
79.9	-1.1±0.3	0.4±0.2	-0.02±0.01	-1.16±0.02	1.065±0.007	1.064±0.007	0.007±0.004	0.021±0.006
84.9	-1.1±0.3	0.4±0.2	-0.01±0.01	-1.16±0.02	1.071±0.007	1.071±0.007	0.007±0.004	0.020±0.006
90.0	-1.0±0.3	0.4±0.2	0.00±0.01	-1.15±0.02	1.074±0.007	1.074±0.007	0.007±0.004	0.018±0.006
100.2	-0.9±0.3	0.4±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	0.007±0.004	0.016±0.006
110.3	-0.8±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	0.004±0.004	0.015±0.006
120.5	-0.8±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	0.005±0.004	0.014±0.006
130.7	-0.6±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	0.003±0.004	0.012±0.006
140.8	-0.6±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	0.003±0.004	0.010±0.006

Table B.93 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	7.4±0.3	1.5±0.5	-0.71±0.01	-1.18±0.02	0.684±0.007	0.678±0.007	0.018±0.006	-0.088±0.004
4.7	6.8±0.3	1.0±0.5	-0.68±0.01	-1.18±0.02	0.703±0.007	0.698±0.007	0.012±0.006	-0.083±0.004
5.7	6.3±0.3	0.9±0.5	-0.67±0.01	-1.18±0.02	0.713±0.007	0.709±0.007	0.011±0.006	-0.078±0.004
6.7	5.8±0.3	0.7±0.5	-0.66±0.01	-1.17±0.02	0.717±0.007	0.714±0.007	0.009±0.006	-0.072±0.004
7.7	5.1±0.3	0.5±0.5	-0.66±0.01	-1.18±0.02	0.722±0.007	0.719±0.007	0.007±0.006	-0.064±0.004
8.7	4.6±0.3	0.5±0.5	-0.65±0.01	-1.17±0.02	0.725±0.007	0.723±0.007	0.006±0.006	-0.059±0.004
9.8	4.2±0.3	0.5±0.5	-0.65±0.01	-1.18±0.02	0.732±0.007	0.730±0.007	0.006±0.006	-0.054±0.004
10.8	3.7±0.3	0.5±0.5	-0.64±0.01	-1.18±0.02	0.732±0.007	0.730±0.007	0.006±0.006	-0.048±0.004
11.8	3.3±0.3	0.5±0.5	-0.63±0.01	-1.18±0.02	0.738±0.007	0.737±0.007	0.006±0.006	-0.042±0.004
12.8	2.9±0.3	0.5±0.5	-0.62±0.01	-1.17±0.02	0.741±0.007	0.740±0.007	0.006±0.006	-0.038±0.004
13.8	2.5±0.3	0.5±0.5	-0.62±0.01	-1.18±0.02	0.744±0.007	0.744±0.007	0.006±0.006	-0.032±0.004
16.4	1.6±0.3	0.4±0.4	-0.61±0.01	-1.18±0.02	0.756±0.007	0.756±0.007	0.006±0.006	-0.022±0.004
18.9	0.9±0.3	0.4±0.4	-0.59±0.01	-1.17±0.02	0.763±0.007	0.763±0.007	0.005±0.006	-0.011±0.004
21.4	0.3±0.3	0.3±0.4	-0.56±0.01	-1.17±0.02	0.779±0.007	0.779±0.007	0.004±0.006	-0.004±0.004
24.0	-0.2±0.3	0.2±0.4	-0.54±0.01	-1.17±0.02	0.797±0.007	0.797±0.007	0.003±0.005	0.002±0.004
26.5	-0.5±0.3	0.2±0.4	-0.51±0.01	-1.18±0.02	0.816±0.007	0.816±0.007	0.003±0.005	0.007±0.005
29.1	-0.8±0.3	0.2±0.4	-0.47±0.01	-1.17±0.02	0.839±0.006	0.839±0.006	0.003±0.005	0.011±0.005
31.6	-0.9±0.3	0.1±0.3	-0.44±0.01	-1.17±0.02	0.858±0.006	0.858±0.006	0.001±0.005	0.013±0.005
34.1	-1.1±0.3	0.2±0.3	-0.41±0.01	-1.18±0.02	0.874±0.006	0.874±0.006	0.003±0.005	0.017±0.005
36.7	-1.3±0.3	0.1±0.3	-0.37±0.01	-1.18±0.02	0.896±0.006	0.896±0.006	0.002±0.005	0.020±0.005
39.2	-1.3±0.3	0.2±0.3	-0.34±0.01	-1.17±0.02	0.911±0.006	0.911±0.006	0.003±0.005	0.021±0.005
44.3	-1.5±0.3	0.2±0.3	-0.29±0.01	-1.17±0.02	0.939±0.006	0.939±0.006	0.003±0.005	0.024±0.005
49.4	-1.5±0.3	0.2±0.3	-0.24±0.01	-1.17±0.02	0.962±0.006	0.962±0.006	0.004±0.005	0.025±0.005
54.5	-1.4±0.3	0.3±0.3	-0.18±0.01	-1.15±0.02	0.984±0.006	0.984±0.006	0.004±0.004	0.024±0.005
59.5	-1.4±0.3	0.3±0.2	-0.14±0.01	-1.16±0.02	1.008±0.006	1.008±0.006	0.005±0.004	0.025±0.006
64.6	-1.4±0.3	0.2±0.2	-0.11±0.01	-1.16±0.02	1.024±0.006	1.023±0.006	0.004±0.004	0.025±0.006
69.7	-1.4±0.3	0.2±0.2	-0.08±0.01	-1.17±0.02	1.044±0.006	1.044±0.006	0.004±0.004	0.025±0.006
74.8	-1.4±0.3	0.3±0.2	-0.05±0.01	-1.16±0.02	1.053±0.007	1.052±0.007	0.005±0.004	0.025±0.006
79.9	-1.3±0.3	0.3±0.2	-0.03±0.01	-1.16±0.02	1.066±0.007	1.066±0.007	0.006±0.004	0.024±0.006
84.9	-1.2±0.3	0.3±0.2	-0.01±0.01	-1.16±0.02	1.073±0.007	1.073±0.007	0.006±0.004	0.022±0.006
90.0	-1.1±0.3	0.3±0.2	0.00±0.01	-1.16±0.02	1.078±0.007	1.077±0.007	0.005±0.004	0.021±0.006
100.2	-1.1±0.3	0.3±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.006±0.004	0.020±0.006
110.3	-0.9±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.005±0.004	0.017±0.006
120.5	-0.9±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.004±0.004	0.017±0.006
130.7	-0.8±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.004±0.004	0.015±0.006
140.8	-0.7±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.003±0.004	0.014±0.006

Table B.94 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	7.3±0.3	1.3±0.5	-0.66±0.01	-1.16±0.02	0.706±0.007	0.700±0.007	0.016±0.006	-0.090±0.004
4.7	7.0±0.3	0.9±0.5	-0.65±0.01	-1.19±0.02	0.740±0.007	0.734±0.007	0.011±0.006	-0.090±0.004
5.7	6.3±0.3	0.5±0.5	-0.64±0.01	-1.17±0.02	0.727±0.007	0.723±0.007	0.006±0.006	-0.079±0.004
6.7	5.7±0.3	0.5±0.4	-0.63±0.01	-1.19±0.02	0.752±0.007	0.748±0.007	0.006±0.006	-0.075±0.004
7.7	5.4±0.3	0.4±0.4	-0.61±0.01	-1.19±0.02	0.758±0.007	0.755±0.007	0.005±0.006	-0.071±0.004
8.7	4.7±0.3	0.3±0.4	-0.61±0.01	-1.17±0.02	0.749±0.007	0.746±0.007	0.004±0.006	-0.062±0.004
9.8	4.3±0.3	0.3±0.4	-0.60±0.01	-1.18±0.02	0.761±0.007	0.758±0.007	0.004±0.006	-0.057±0.004
10.8	4.0±0.3	0.3±0.4	-0.57±0.01	-1.18±0.02	0.779±0.007	0.777±0.007	0.004±0.006	-0.054±0.004
11.8	3.5±0.3	0.2±0.4	-0.59±0.01	-1.18±0.02	0.766±0.007	0.765±0.007	0.003±0.006	-0.046±0.004
12.8	2.9±0.3	0.2±0.4	-0.58±0.01	-1.17±0.02	0.766±0.007	0.765±0.007	0.003±0.006	-0.039±0.004
13.8	2.6±0.3	0.1±0.4	-0.58±0.01	-1.18±0.02	0.773±0.007	0.773±0.007	0.001±0.006	-0.035±0.004
16.4	1.8±0.3	0.0±0.4	-0.56±0.01	-1.17±0.02	0.780±0.007	0.780±0.007	0.001±0.006	-0.024±0.004
18.9	1.2±0.3	-0.1±0.4	-0.54±0.01	-1.16±0.02	0.788±0.007	0.788±0.007	-0.002±0.006	-0.016±0.004
21.4	0.6±0.3	-0.1±0.4	-0.53±0.01	-1.19±0.02	0.817±0.007	0.817±0.007	-0.001±0.005	-0.009±0.005
24.0	0.3±0.3	-0.3±0.4	-0.52±0.01	-1.19±0.02	0.820±0.007	0.820±0.007	-0.005±0.005	-0.004±0.005
26.5	-0.3±0.3	-0.3±0.4	-0.48±0.01	-1.17±0.02	0.830±0.007	0.830±0.007	-0.004±0.005	0.004±0.005
29.1	-0.6±0.3	-0.3±0.3	-0.45±0.01	-1.20±0.02	0.871±0.006	0.871±0.006	-0.004±0.005	0.009±0.005
31.6	-0.8±0.3	-0.3±0.3	-0.42±0.01	-1.18±0.02	0.873±0.006	0.873±0.006	-0.004±0.005	0.012±0.005
34.1	-1.0±0.3	-0.3±0.3	-0.38±0.01	-1.17±0.02	0.890±0.006	0.890±0.006	-0.004±0.005	0.016±0.005
36.7	-1.2±0.3	-0.2±0.3	-0.37±0.01	-1.20±0.02	0.910±0.006	0.909±0.006	-0.003±0.005	0.018±0.005
39.2	-1.2±0.3	-0.1±0.3	-0.33±0.01	-1.17±0.02	0.914±0.006	0.914±0.006	-0.001±0.005	0.019±0.005
44.3	-1.3±0.3	0.0±0.3	-0.28±0.01	-1.18±0.02	0.949±0.006	0.949±0.006	0.000±0.005	0.022±0.005
49.4	-1.4±0.3	0.1±0.3	-0.21±0.01	-1.16±0.02	0.974±0.006	0.973±0.006	0.002±0.004	0.024±0.005
54.5	-1.4±0.3	0.1±0.3	-0.18±0.01	-1.16±0.02	0.991±0.006	0.991±0.006	0.002±0.004	0.025±0.005
59.5	-1.3±0.3	0.1±0.2	-0.14±0.01	-1.16±0.02	1.010±0.006	1.010±0.006	0.002±0.004	0.023±0.006
64.6	-1.4±0.3	0.1±0.2	-0.11±0.01	-1.17±0.02	1.028±0.006	1.028±0.006	0.003±0.004	0.025±0.006
69.7	-1.3±0.3	0.1±0.2	-0.08±0.01	-1.17±0.02	1.044±0.007	1.043±0.007	0.003±0.004	0.024±0.006
74.8	-1.3±0.3	0.1±0.2	-0.04±0.01	-1.15±0.02	1.054±0.007	1.053±0.007	0.002±0.004	0.023±0.006
79.9	-1.2±0.3	0.2±0.2	-0.03±0.01	-1.16±0.02	1.065±0.007	1.064±0.007	0.004±0.004	0.023±0.006
84.9	-1.2±0.3	0.3±0.2	-0.02±0.01	-1.18±0.02	1.076±0.007	1.076±0.007	0.005±0.004	0.022±0.006
90.0	-1.2±0.3	0.3±0.2	0.00±0.01	-1.16±0.02	1.078±0.007	1.078±0.007	0.005±0.004	0.022±0.006
100.2	-1.0±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.004±0.004	0.018±0.006
110.3	-0.9±0.3	0.3±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	0.005±0.004	0.017±0.006
120.5	-0.9±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.083±0.007	1.083±0.007	0.004±0.004	0.016±0.006
130.7	-0.8±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	0.004±0.004	0.015±0.006
140.8	-0.7±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.083±0.007	1.083±0.007	0.003±0.004	0.014±0.006

Table B.95 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	7.2±0.3	1.3±0.5	-0.65±0.01	-1.16±0.02	0.717±0.007	0.711±0.007	0.016±0.006	-0.089±0.004
4.7	6.8±0.3	0.9±0.5	-0.64±0.01	-1.19±0.02	0.739±0.007	0.734±0.007	0.011±0.006	-0.087±0.004
5.7	5.9±0.3	0.4±0.5	-0.62±0.01	-1.18±0.02	0.748±0.007	0.744±0.007	0.006±0.006	-0.077±0.004
6.7	5.5±0.3	0.4±0.4	-0.61±0.01	-1.20±0.02	0.769±0.007	0.765±0.007	0.005±0.006	-0.074±0.004
7.7	5.0±0.3	0.3±0.4	-0.58±0.01	-1.17±0.02	0.770±0.007	0.767±0.007	0.004±0.006	-0.067±0.004
8.7	4.6±0.3	0.3±0.4	-0.57±0.01	-1.18±0.02	0.777±0.007	0.775±0.007	0.004±0.006	-0.063±0.004
9.8	4.2±0.3	0.1±0.4	-0.55±0.01	-1.18±0.02	0.791±0.007	0.789±0.007	0.001±0.006	-0.058±0.004
10.8	3.6±0.3	0.0±0.4	-0.55±0.01	-1.18±0.02	0.790±0.007	0.789±0.007	0.000±0.006	-0.050±0.004
11.8	3.2±0.3	0.0±0.4	-0.55±0.01	-1.19±0.02	0.804±0.007	0.803±0.007	-0.001±0.005	-0.046±0.004
12.8	3.1±0.3	-0.1±0.4	-0.53±0.01	-1.17±0.02	0.795±0.007	0.794±0.007	-0.001±0.006	-0.043±0.004
13.8	2.7±0.3	-0.2±0.4	-0.53±0.01	-1.18±0.02	0.802±0.007	0.801±0.007	-0.003±0.005	-0.037±0.004
16.4	1.8±0.3	-0.4±0.4	-0.53±0.01	-1.18±0.02	0.807±0.007	0.807±0.007	-0.005±0.005	-0.026±0.004
18.9	1.3±0.3	-0.5±0.4	-0.50±0.01	-1.17±0.02	0.817±0.007	0.817±0.007	-0.008±0.005	-0.018±0.005
21.4	0.7±0.3	-0.5±0.4	-0.48±0.01	-1.16±0.02	0.825±0.007	0.824±0.007	-0.008±0.005	-0.009±0.005
24.0	0.2±0.3	-0.7±0.4	-0.46±0.01	-1.16±0.02	0.838±0.007	0.838±0.007	-0.010±0.005	-0.003±0.005
26.5	-0.1±0.3	-0.5±0.3	-0.45±0.01	-1.17±0.02	0.852±0.007	0.852±0.007	-0.008±0.005	0.002±0.005
29.1	-0.4±0.3	-0.6±0.3	-0.42±0.01	-1.17±0.02	0.868±0.006	0.868±0.006	-0.009±0.005	0.007±0.005
31.6	-0.8±0.3	-0.6±0.3	-0.39±0.01	-1.17±0.02	0.883±0.006	0.883±0.006	-0.009±0.005	0.012±0.005
34.1	-0.9±0.3	-0.5±0.3	-0.36±0.01	-1.18±0.02	0.901±0.006	0.901±0.006	-0.007±0.005	0.014±0.005
36.7	-1.1±0.3	-0.4±0.3	-0.34±0.01	-1.18±0.02	0.914±0.006	0.913±0.006	-0.006±0.005	0.018±0.005
39.2	-1.2±0.3	-0.4±0.3	-0.32±0.01	-1.18±0.02	0.928±0.006	0.928±0.006	-0.006±0.005	0.019±0.005
44.3	-1.3±0.3	-0.2±0.3	-0.26±0.01	-1.17±0.02	0.953±0.006	0.953±0.006	-0.003±0.005	0.022±0.005
49.4	-1.4±0.3	-0.2±0.3	-0.22±0.01	-1.17±0.02	0.975±0.006	0.975±0.006	-0.003±0.005	0.024±0.005
54.5	-1.4±0.3	-0.1±0.3	-0.18±0.01	-1.17±0.02	0.992±0.006	0.992±0.006	-0.003±0.004	0.025±0.005
59.5	-1.4±0.3	-0.1±0.2	-0.14±0.01	-1.16±0.02	1.014±0.006	1.013±0.006	-0.002±0.004	0.025±0.006
64.6	-1.4±0.3	-0.1±0.2	-0.11±0.01	-1.17±0.02	1.030±0.007	1.029±0.007	-0.001±0.004	0.025±0.006
69.7	-1.4±0.3	0.0±0.2	-0.07±0.01	-1.17±0.02	1.046±0.007	1.045±0.007	0.000±0.004	0.025±0.006
74.8	-1.3±0.3	0.1±0.2	-0.05±0.01	-1.17±0.02	1.059±0.007	1.058±0.007	0.003±0.004	0.024±0.006
79.9	-1.3±0.3	0.1±0.2	-0.02±0.01	-1.16±0.02	1.067±0.007	1.066±0.007	0.002±0.004	0.023±0.006
84.9	-1.3±0.3	0.1±0.2	-0.01±0.01	-1.16±0.02	1.074±0.007	1.074±0.007	0.003±0.004	0.024±0.006
90.0	-1.2±0.3	0.2±0.2	0.00±0.01	-1.16±0.02	1.078±0.007	1.078±0.007	0.003±0.004	0.022±0.006
100.2	-1.0±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.003±0.004	0.018±0.006
110.3	-0.9±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.081±0.007	0.003±0.004	0.016±0.006
120.5	-0.9±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.003±0.004	0.016±0.006
130.7	-0.8±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.003±0.004	0.015±0.006
140.8	-0.7±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.003±0.004	0.013±0.006

Table B.96 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.5±0.3	1.2±0.5	-0.62±0.01	-1.16±0.02	0.735±0.007	0.730±0.007	0.015±0.006	-0.083±0.004
4.7	6.0±0.3	0.7±0.4	-0.60±0.01	-1.18±0.02	0.760±0.007	0.756±0.007	0.010±0.006	-0.080±0.004
5.7	5.4±0.3	0.5±0.4	-0.57±0.01	-1.17±0.02	0.774±0.007	0.770±0.007	0.006±0.006	-0.073±0.004
6.7	4.8±0.3	0.4±0.4	-0.55±0.01	-1.17±0.02	0.785±0.007	0.782±0.007	0.005±0.006	-0.065±0.004
7.7	4.3±0.3	0.4±0.4	-0.54±0.01	-1.18±0.02	0.800±0.007	0.798±0.007	0.005±0.006	-0.060±0.004
8.7	4.0±0.3	0.1±0.4	-0.52±0.01	-1.18±0.02	0.807±0.007	0.805±0.007	0.002±0.006	-0.056±0.004
9.8	3.6±0.3	0.0±0.4	-0.51±0.01	-1.17±0.02	0.812±0.007	0.810±0.007	0.000±0.006	-0.050±0.004
10.8	3.2±0.3	0.0±0.4	-0.50±0.01	-1.17±0.02	0.816±0.007	0.814±0.007	-0.001±0.005	-0.045±0.005
11.8	2.8±0.3	-0.1±0.4	-0.51±0.01	-1.17±0.02	0.817±0.007	0.816±0.007	-0.002±0.005	-0.039±0.005
12.8	2.5±0.3	-0.2±0.4	-0.49±0.01	-1.17±0.02	0.819±0.007	0.818±0.007	-0.003±0.005	-0.035±0.005
13.8	2.2±0.3	-0.3±0.4	-0.50±0.01	-1.18±0.02	0.824±0.007	0.824±0.007	-0.005±0.005	-0.031±0.005
16.4	1.5±0.3	-0.4±0.4	-0.48±0.01	-1.17±0.02	0.831±0.007	0.830±0.007	-0.006±0.005	-0.022±0.005
18.9	1.0±0.3	-0.6±0.4	-0.47±0.01	-1.17±0.02	0.842±0.007	0.842±0.007	-0.008±0.005	-0.014±0.005
21.4	0.5±0.3	-0.7±0.4	-0.45±0.01	-1.17±0.02	0.851±0.007	0.850±0.007	-0.010±0.005	-0.007±0.005
24.0	0.1±0.3	-0.7±0.3	-0.43±0.01	-1.16±0.02	0.858±0.007	0.858±0.007	-0.010±0.005	-0.002±0.005
26.5	-0.3±0.3	-0.6±0.3	-0.41±0.01	-1.17±0.02	0.875±0.007	0.875±0.007	-0.010±0.005	0.004±0.005
29.1	-0.7±0.3	-0.7±0.3	-0.38±0.01	-1.16±0.02	0.884±0.007	0.884±0.007	-0.010±0.005	0.010±0.005
31.6	-0.9±0.3	-0.6±0.3	-0.36±0.01	-1.17±0.02	0.900±0.007	0.900±0.007	-0.010±0.005	0.014±0.005
34.1	-1.0±0.3	-0.6±0.3	-0.33±0.01	-1.16±0.02	0.912±0.007	0.912±0.007	-0.010±0.005	0.016±0.005
36.7	-1.3±0.3	-0.6±0.3	-0.32±0.01	-1.18±0.02	0.926±0.007	0.925±0.007	-0.010±0.005	0.021±0.005
39.2	-1.3±0.3	-0.5±0.3	-0.29±0.01	-1.17±0.02	0.941±0.007	0.940±0.007	-0.008±0.005	0.021±0.005
44.3	-1.4±0.3	-0.4±0.3	-0.24±0.01	-1.16±0.02	0.960±0.007	0.959±0.007	-0.007±0.005	0.023±0.005
49.4	-1.4±0.3	-0.3±0.3	-0.20±0.01	-1.17±0.02	0.983±0.007	0.983±0.007	-0.006±0.005	0.024±0.005
54.5	-1.5±0.3	-0.3±0.3	-0.16±0.01	-1.17±0.02	1.003±0.007	1.003±0.007	-0.005±0.004	0.025±0.006
59.5	-1.5±0.3	-0.2±0.2	-0.12±0.01	-1.16±0.02	1.020±0.007	1.020±0.007	-0.004±0.004	0.026±0.006
64.6	-1.5±0.3	-0.2±0.2	-0.09±0.01	-1.17±0.02	1.036±0.007	1.036±0.007	-0.004±0.004	0.027±0.006
69.7	-1.4±0.3	-0.1±0.2	-0.06±0.01	-1.16±0.02	1.053±0.007	1.052±0.007	-0.001±0.004	0.026±0.006
74.8	-1.4±0.3	-0.1±0.2	-0.03±0.01	-1.16±0.02	1.063±0.007	1.062±0.007	-0.002±0.004	0.025±0.006
79.9	-1.3±0.3	-0.1±0.2	-0.01±0.01	-1.15±0.02	1.068±0.007	1.068±0.007	-0.001±0.004	0.024±0.006
84.9	-1.2±0.3	0.0±0.2	0.00±0.01	-1.16±0.02	1.075±0.007	1.075±0.007	0.001±0.004	0.023±0.006
90.0	-1.2±0.3	0.0±0.2	0.00±0.01	-1.16±0.02	1.078±0.007	1.078±0.007	0.000±0.004	0.022±0.006
100.2	-1.0±0.3	0.1±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.079±0.007	0.002±0.004	0.019±0.006
110.3	-0.9±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.000±0.004	0.017±0.006
120.5	-0.9±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.003±0.004	0.016±0.006
130.7	-0.7±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.003±0.004	0.014±0.006
140.8	-0.7±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.003±0.004	0.013±0.006

Table B.97 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.4±0.3	1.0±0.5	-0.62±0.01	-1.16±0.02	0.738±0.007	0.733±0.007	0.013±0.006	-0.083±0.004
4.7	5.8±0.3	0.5±0.5	-0.58±0.01	-1.14±0.02	0.749±0.007	0.745±0.007	0.006±0.006	-0.076±0.004
5.7	5.3±0.3	0.3±0.4	-0.57±0.01	-1.16±0.02	0.773±0.007	0.770±0.007	0.005±0.006	-0.071±0.004
6.7	4.7±0.3	0.4±0.4	-0.54±0.01	-1.17±0.02	0.793±0.007	0.790±0.007	0.005±0.006	-0.065±0.004
7.7	4.3±0.3	0.1±0.4	-0.52±0.01	-1.17±0.02	0.804±0.007	0.801±0.007	0.001±0.005	-0.060±0.004
8.7	3.8±0.3	0.0±0.4	-0.51±0.01	-1.16±0.02	0.806±0.007	0.804±0.007	0.000±0.005	-0.053±0.004
9.8	3.4±0.3	-0.1±0.4	-0.49±0.01	-1.15±0.02	0.814±0.007	0.813±0.007	-0.001±0.005	-0.048±0.005
10.8	3.0±0.3	-0.2±0.4	-0.49±0.01	-1.17±0.02	0.825±0.007	0.824±0.007	-0.002±0.005	-0.043±0.005
11.8	2.7±0.3	-0.3±0.4	-0.48±0.01	-1.16±0.02	0.824±0.007	0.823±0.007	-0.005±0.005	-0.039±0.005
12.8	2.3±0.3	-0.3±0.4	-0.47±0.01	-1.16±0.02	0.830±0.007	0.830±0.007	-0.005±0.005	-0.034±0.005
13.8	2.2±0.3	-0.4±0.4	-0.47±0.01	-1.16±0.02	0.832±0.007	0.832±0.007	-0.005±0.005	-0.033±0.005
16.4	1.6±0.3	-0.6±0.4	-0.45±0.01	-1.16±0.02	0.845±0.006	0.844±0.007	-0.009±0.005	-0.023±0.005
18.9	1.1±0.3	-0.7±0.3	-0.44±0.01	-1.16±0.02	0.851±0.006	0.851±0.006	-0.010±0.005	-0.017±0.005
21.4	0.6±0.3	-0.7±0.3	-0.42±0.01	-1.16±0.02	0.863±0.006	0.863±0.006	-0.010±0.005	-0.009±0.005
24.0	0.3±0.3	-0.8±0.3	-0.39±0.01	-1.15±0.02	0.875±0.006	0.875±0.006	-0.012±0.005	-0.004±0.005
26.5	-0.1±0.3	-0.9±0.3	-0.37±0.01	-1.16±0.02	0.884±0.006	0.884±0.006	-0.014±0.005	0.001±0.005
29.1	-0.4±0.3	-0.9±0.3	-0.35±0.01	-1.15±0.02	0.894±0.006	0.894±0.006	-0.014±0.005	0.006±0.005
31.6	-0.6±0.3	-0.8±0.3	-0.34±0.01	-1.16±0.02	0.906±0.006	0.906±0.006	-0.013±0.005	0.009±0.005
34.1	-0.8±0.3	-0.8±0.3	-0.32±0.01	-1.16±0.02	0.918±0.006	0.917±0.006	-0.013±0.005	0.012±0.005
36.7	-0.9±0.3	-0.8±0.3	-0.29±0.01	-1.16±0.02	0.933±0.006	0.933±0.006	-0.013±0.005	0.015±0.005
39.2	-1.0±0.3	-0.7±0.3	-0.28±0.01	-1.15±0.02	0.936±0.006	0.936±0.006	-0.012±0.005	0.017±0.005
44.3	-1.2±0.3	-0.6±0.3	-0.24±0.01	-1.15±0.02	0.954±0.006	0.954±0.006	-0.010±0.005	0.019±0.005
49.4	-1.3±0.3	-0.5±0.3	-0.20±0.01	-1.15±0.02	0.977±0.006	0.977±0.006	-0.008±0.004	0.021±0.005
54.5	-1.3±0.3	-0.4±0.3	-0.16±0.01	-1.16±0.02	1.000±0.006	1.000±0.006	-0.007±0.004	0.023±0.006
59.5	-1.3±0.3	-0.4±0.2	-0.13±0.01	-1.15±0.02	1.012±0.006	1.012±0.006	-0.006±0.004	0.022±0.006
64.6	-1.3±0.3	-0.3±0.2	-0.09±0.01	-1.16±0.02	1.033±0.006	1.033±0.006	-0.006±0.004	0.023±0.006
69.7	-1.3±0.3	-0.3±0.2	-0.06±0.01	-1.14±0.02	1.044±0.007	1.043±0.007	-0.006±0.004	0.023±0.006
74.8	-1.2±0.3	-0.3±0.2	-0.04±0.01	-1.15±0.02	1.055±0.007	1.055±0.007	-0.005±0.004	0.022±0.006
79.9	-1.2±0.3	-0.2±0.2	-0.02±0.01	-1.15±0.02	1.063±0.007	1.063±0.007	-0.003±0.004	0.021±0.006
84.9	-1.1±0.3	-0.1±0.2	-0.01±0.01	-1.15±0.02	1.069±0.007	1.069±0.007	-0.003±0.004	0.020±0.006
90.0	-1.0±0.3	-0.1±0.2	0.00±0.01	-1.15±0.02	1.071±0.007	1.071±0.007	-0.001±0.004	0.019±0.006
100.2	-0.9±0.3	-0.1±0.2	0.01±0.01	-1.15±0.02	1.074±0.007	1.074±0.007	-0.001±0.004	0.016±0.006
110.3	-0.8±0.3	0.0±0.2	0.01±0.01	-1.15±0.02	1.075±0.007	1.075±0.007	0.000±0.004	0.014±0.006
120.5	-0.7±0.3	0.1±0.2	0.01±0.01	-1.14±0.02	1.074±0.007	1.074±0.007	0.002±0.004	0.013±0.006
130.7	-0.7±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.075±0.007	1.075±0.007	0.003±0.004	0.012±0.006
140.8	-0.6±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.074±0.007	1.074±0.007	0.003±0.004	0.011±0.006

Table B.98 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-38 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.3±0.3	0.9±0.4	-0.59±0.01	-1.16±0.02	0.750±0.007	0.746±0.007	0.012±0.006	-0.082±0.004
4.7	5.5±0.3	0.5±0.4	-0.57±0.01	-1.16±0.02	0.770±0.007	0.767±0.007	0.006±0.006	-0.073±0.004
5.7	4.8±0.3	0.3±0.4	-0.53±0.01	-1.15±0.02	0.784±0.007	0.781±0.007	0.004±0.006	-0.065±0.004
6.7	4.3±0.3	0.0±0.4	-0.52±0.01	-1.15±0.02	0.798±0.007	0.796±0.007	0.000±0.005	-0.060±0.004
7.7	3.7±0.3	-0.1±0.4	-0.50±0.01	-1.16±0.02	0.813±0.007	0.811±0.007	-0.001±0.005	-0.053±0.004
8.7	3.5±0.3	-0.1±0.4	-0.48±0.01	-1.16±0.02	0.820±0.007	0.819±0.006	-0.002±0.005	-0.049±0.005
9.8	3.0±0.3	-0.2±0.4	-0.46±0.01	-1.17±0.02	0.841±0.006	0.840±0.006	-0.002±0.005	-0.044±0.005
10.8	2.7±0.3	-0.4±0.4	-0.45±0.01	-1.16±0.02	0.838±0.006	0.837±0.006	-0.005±0.005	-0.039±0.005
11.8	2.3±0.3	-0.4±0.4	-0.43±0.01	-1.13±0.02	0.839±0.006	0.839±0.006	-0.005±0.005	-0.034±0.005
12.8	2.1±0.3	-0.3±0.4	-0.45±0.01	-1.16±0.02	0.844±0.006	0.843±0.006	-0.005±0.005	-0.031±0.005
13.8	1.9±0.3	-0.4±0.3	-0.43±0.01	-1.15±0.02	0.850±0.006	0.850±0.006	-0.005±0.005	-0.028±0.005
16.4	1.4±0.3	-0.6±0.3	-0.42±0.01	-1.16±0.02	0.857±0.006	0.857±0.006	-0.009±0.005	-0.021±0.005
18.9	1.0±0.3	-0.6±0.3	-0.41±0.01	-1.16±0.02	0.865±0.006	0.865±0.006	-0.009±0.005	-0.015±0.005
21.4	0.6±0.3	-0.8±0.3	-0.39±0.01	-1.16±0.02	0.875±0.006	0.875±0.006	-0.013±0.005	-0.009±0.005
24.0	0.3±0.3	-0.9±0.3	-0.38±0.01	-1.16±0.02	0.882±0.006	0.882±0.006	-0.014±0.005	-0.004±0.005
26.5	-0.1±0.3	-0.9±0.3	-0.36±0.01	-1.16±0.02	0.893±0.006	0.893±0.006	-0.013±0.005	0.001±0.005
29.1	-0.3±0.3	-0.8±0.3	-0.33±0.01	-1.14±0.02	0.899±0.006	0.899±0.006	-0.013±0.005	0.005±0.005
31.6	-0.5±0.3	-0.8±0.3	-0.32±0.01	-1.15±0.02	0.912±0.006	0.912±0.006	-0.013±0.005	0.008±0.005
34.1	-0.7±0.3	-0.8±0.3	-0.30±0.01	-1.15±0.02	0.921±0.006	0.920±0.006	-0.013±0.005	0.010±0.005
36.7	-0.8±0.3	-0.8±0.3	-0.28±0.01	-1.16±0.02	0.936±0.006	0.936±0.006	-0.013±0.005	0.013±0.005
39.2	-0.9±0.3	-0.8±0.3	-0.26±0.01	-1.15±0.02	0.940±0.006	0.939±0.006	-0.013±0.005	0.015±0.005
44.3	-1.1±0.3	-0.7±0.3	-0.23±0.01	-1.15±0.02	0.960±0.006	0.960±0.006	-0.012±0.005	0.018±0.005
49.4	-1.1±0.3	-0.7±0.3	-0.20±0.01	-1.16±0.02	0.980±0.006	0.980±0.006	-0.011±0.004	0.019±0.005
54.5	-1.2±0.3	-0.6±0.3	-0.15±0.01	-1.15±0.02	0.997±0.006	0.997±0.006	-0.011±0.004	0.021±0.006
59.5	-1.2±0.3	-0.6±0.2	-0.12±0.01	-1.14±0.02	1.011±0.006	1.011±0.006	-0.011±0.004	0.021±0.006
64.6	-1.2±0.3	-0.6±0.2	-0.10±0.01	-1.15±0.02	1.025±0.006	1.025±0.006	-0.010±0.004	0.022±0.006
69.7	-1.2±0.3	-0.5±0.2	-0.05±0.01	-1.14±0.02	1.042±0.006	1.042±0.006	-0.009±0.004	0.022±0.006
74.8	-1.2±0.3	-0.5±0.2	-0.03±0.01	-1.15±0.02	1.055±0.006	1.055±0.006	-0.008±0.004	0.021±0.006
79.9	-1.1±0.3	-0.3±0.2	-0.02±0.01	-1.14±0.02	1.061±0.006	1.061±0.006	-0.006±0.004	0.021±0.006
84.9	-1.1±0.3	-0.3±0.2	0.00±0.01	-1.14±0.02	1.067±0.007	1.066±0.007	-0.005±0.004	0.020±0.006
90.0	-0.9±0.3	-0.3±0.2	0.00±0.01	-1.14±0.02	1.070±0.007	1.070±0.007	-0.005±0.004	0.018±0.006
100.2	-0.9±0.3	-0.1±0.2	0.01±0.01	-1.14±0.02	1.072±0.007	1.072±0.007	-0.002±0.004	0.016±0.006
110.3	-0.8±0.3	-0.1±0.2	0.01±0.01	-1.14±0.02	1.073±0.007	1.073±0.007	-0.001±0.004	0.014±0.006
120.5	-0.7±0.3	-0.1±0.2	0.01±0.01	-1.14±0.02	1.073±0.007	1.073±0.007	-0.001±0.004	0.012±0.006
130.7	-0.6±0.3	0.0±0.2	0.01±0.01	-1.14±0.02	1.073±0.007	1.073±0.007	0.000±0.004	0.012±0.006
140.8	-0.6±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.074±0.007	1.074±0.007	0.003±0.004	0.010±0.006

Table B.99 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-32 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.4±0.3	0.6±0.4	-0.60±0.01	-1.17±0.02	0.753±0.007	0.750±0.007	0.008±0.006	-0.071±0.004
4.7	4.6±0.3	0.3±0.4	-0.56±0.01	-1.18±0.02	0.785±0.007	0.782±0.007	0.005±0.006	-0.064±0.004
5.7	4.0±0.3	0.0±0.4	-0.53±0.01	-1.16±0.02	0.796±0.007	0.794±0.007	-0.001±0.005	-0.056±0.004
6.7	3.5±0.3	-0.1±0.4	-0.49±0.01	-1.16±0.02	0.821±0.007	0.819±0.007	-0.001±0.005	-0.051±0.005
7.7	3.2±0.3	-0.3±0.4	-0.47±0.01	-1.15±0.02	0.822±0.007	0.821±0.007	-0.004±0.005	-0.046±0.005
8.7	2.7±0.3	-0.3±0.4	-0.45±0.01	-1.16±0.02	0.841±0.006	0.840±0.006	-0.005±0.005	-0.040±0.005
9.8	2.4±0.3	-0.3±0.3	-0.43±0.01	-1.15±0.02	0.847±0.006	0.847±0.006	-0.005±0.005	-0.035±0.005
10.8	2.2±0.3	-0.4±0.3	-0.44±0.01	-1.17±0.02	0.857±0.006	0.856±0.006	-0.006±0.005	-0.032±0.005
11.8	2.0±0.3	-0.5±0.3	-0.41±0.01	-1.14±0.02	0.851±0.006	0.851±0.006	-0.008±0.005	-0.029±0.005
12.8	1.7±0.3	-0.6±0.3	-0.40±0.01	-1.15±0.02	0.864±0.006	0.864±0.006	-0.009±0.005	-0.026±0.005
13.8	1.6±0.3	-0.6±0.3	-0.41±0.01	-1.17±0.02	0.872±0.006	0.871±0.006	-0.009±0.005	-0.024±0.005
16.4	1.0±0.3	-0.6±0.3	-0.39±0.01	-1.16±0.02	0.876±0.006	0.876±0.006	-0.010±0.005	-0.016±0.005
18.9	0.7±0.3	-0.7±0.3	-0.38±0.01	-1.17±0.02	0.887±0.006	0.887±0.006	-0.011±0.005	-0.011±0.005
21.4	0.3±0.3	-0.9±0.3	-0.36±0.01	-1.17±0.02	0.896±0.006	0.896±0.006	-0.014±0.005	-0.005±0.005
24.0	0.0±0.3	-0.9±0.3	-0.35±0.01	-1.17±0.02	0.906±0.006	0.906±0.006	-0.014±0.005	-0.001±0.005
26.5	-0.2±0.3	-1.0±0.3	-0.34±0.01	-1.17±0.02	0.915±0.006	0.915±0.006	-0.015±0.005	0.003±0.005
29.1	-0.5±0.3	-1.1±0.3	-0.30±0.01	-1.14±0.02	0.915±0.006	0.914±0.006	-0.017±0.005	0.008±0.005
31.6	-0.6±0.3	-1.1±0.3	-0.29±0.01	-1.14±0.02	0.922±0.006	0.922±0.006	-0.017±0.005	0.009±0.005
34.1	-0.8±0.3	-1.0±0.3	-0.27±0.01	-1.16±0.02	0.940±0.006	0.940±0.006	-0.017±0.005	0.012±0.005
36.7	-0.9±0.3	-1.1±0.3	-0.25±0.01	-1.15±0.02	0.947±0.006	0.946±0.006	-0.018±0.005	0.014±0.005
39.2	-1.0±0.3	-1.0±0.3	-0.24±0.01	-1.17±0.02	0.960±0.006	0.960±0.006	-0.016±0.005	0.016±0.005
44.3	-1.1±0.3	-0.9±0.3	-0.20±0.01	-1.16±0.02	0.978±0.006	0.978±0.006	-0.016±0.004	0.018±0.005
49.4	-1.2±0.3	-1.0±0.3	-0.16±0.01	-1.16±0.02	0.998±0.006	0.998±0.006	-0.017±0.004	0.020±0.006
54.5	-1.3±0.3	-0.9±0.2	-0.12±0.01	-1.15±0.02	1.012±0.006	1.012±0.006	-0.016±0.004	0.022±0.006
59.5	-1.3±0.3	-0.8±0.2	-0.10±0.01	-1.15±0.02	1.026±0.006	1.026±0.006	-0.014±0.004	0.023±0.006
64.6	-1.3±0.3	-0.8±0.2	-0.07±0.01	-1.16±0.02	1.042±0.006	1.041±0.006	-0.014±0.004	0.023±0.006
69.7	-1.2±0.3	-0.7±0.2	-0.05±0.01	-1.17±0.02	1.058±0.007	1.058±0.007	-0.013±0.004	0.023±0.006
74.8	-1.2±0.3	-0.6±0.2	-0.03±0.01	-1.15±0.02	1.060±0.007	1.060±0.007	-0.012±0.004	0.023±0.006
79.9	-1.1±0.3	-0.5±0.2	-0.01±0.01	-1.15±0.02	1.070±0.007	1.070±0.007	-0.009±0.004	0.020±0.006
84.9	-1.0±0.3	-0.5±0.2	0.00±0.01	-1.15±0.02	1.073±0.007	1.073±0.007	-0.009±0.004	0.019±0.006
90.0	-1.0±0.3	-0.4±0.2	0.00±0.01	-1.15±0.02	1.075±0.007	1.075±0.007	-0.007±0.004	0.018±0.006
100.2	-0.8±0.3	-0.2±0.2	0.01±0.01	-1.15±0.02	1.076±0.007	1.076±0.007	-0.005±0.004	0.016±0.006
110.3	-0.7±0.3	-0.2±0.2	0.01±0.01	-1.15±0.02	1.076±0.007	1.076±0.007	-0.003±0.004	0.014±0.006
120.5	-0.7±0.3	-0.1±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.077±0.007	-0.002±0.004	0.012±0.006
130.7	-0.6±0.3	-0.1±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	-0.001±0.004	0.011±0.006
140.8	-0.6±0.3	0.0±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	0.000±0.004	0.011±0.006

Table B.100 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-25 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.6±0.3	0.6±0.5	-0.61±0.01	-1.15±0.02	0.739±0.007	0.736±0.007	0.008±0.006	-0.060±0.004
4.7	4.1±0.3	0.3±0.4	-0.58±0.01	-1.17±0.02	0.768±0.007	0.766±0.007	0.004±0.006	-0.055±0.004
5.7	3.6±0.3	-0.1±0.4	-0.54±0.01	-1.15±0.02	0.786±0.007	0.784±0.007	-0.001±0.006	-0.049±0.004
6.7	3.1±0.3	-0.3±0.4	-0.52±0.01	-1.16±0.02	0.803±0.007	0.801±0.007	-0.004±0.006	-0.044±0.004
7.7	2.6±0.3	-0.4±0.4	-0.49±0.01	-1.16±0.02	0.815±0.007	0.814±0.007	-0.006±0.005	-0.037±0.005
8.7	2.5±0.3	-0.5±0.4	-0.47±0.01	-1.17±0.02	0.836±0.007	0.835±0.007	-0.007±0.005	-0.036±0.005
9.8	2.1±0.3	-0.6±0.4	-0.45±0.01	-1.17±0.02	0.847±0.007	0.847±0.007	-0.009±0.005	-0.031±0.005
10.8	1.9±0.3	-0.7±0.4	-0.44±0.01	-1.17±0.02	0.852±0.007	0.852±0.007	-0.010±0.005	-0.028±0.005
11.8	1.6±0.3	-0.6±0.3	-0.42±0.01	-1.17±0.02	0.863±0.007	0.863±0.007	-0.010±0.005	-0.024±0.005
12.8	1.4±0.3	-0.7±0.3	-0.40±0.01	-1.16±0.02	0.871±0.007	0.871±0.007	-0.010±0.005	-0.021±0.005
13.8	1.3±0.3	-0.8±0.3	-0.40±0.01	-1.17±0.02	0.876±0.007	0.876±0.007	-0.013±0.005	-0.020±0.005
16.4	0.9±0.3	-0.9±0.3	-0.37±0.01	-1.16±0.02	0.887±0.007	0.887±0.007	-0.014±0.005	-0.013±0.005
18.9	0.5±0.3	-1.0±0.3	-0.35±0.01	-1.16±0.02	0.898±0.007	0.898±0.007	-0.015±0.005	-0.009±0.005
21.4	0.3±0.3	-1.1±0.3	-0.34±0.01	-1.17±0.02	0.912±0.007	0.912±0.007	-0.018±0.005	-0.005±0.005
24.0	0.1±0.3	-1.1±0.3	-0.32±0.01	-1.17±0.02	0.920±0.006	0.920±0.007	-0.018±0.005	-0.001±0.005
26.5	-0.2±0.3	-1.2±0.3	-0.30±0.01	-1.16±0.02	0.926±0.006	0.926±0.007	-0.019±0.005	0.003±0.005
29.1	-0.4±0.3	-1.3±0.3	-0.29±0.01	-1.17±0.02	0.937±0.006	0.937±0.007	-0.021±0.005	0.006±0.005
31.6	-0.5±0.3	-1.3±0.3	-0.27±0.01	-1.16±0.02	0.944±0.006	0.943±0.007	-0.022±0.005	0.008±0.005
34.1	-0.7±0.3	-1.3±0.3	-0.26±0.01	-1.16±0.02	0.950±0.006	0.950±0.007	-0.021±0.005	0.011±0.005
36.7	-0.7±0.3	-1.3±0.3	-0.23±0.01	-1.16±0.02	0.965±0.007	0.964±0.007	-0.021±0.005	0.012±0.005
39.2	-0.8±0.3	-1.2±0.3	-0.22±0.01	-1.17±0.02	0.974±0.007	0.974±0.007	-0.021±0.005	0.013±0.005
44.3	-0.9±0.3	-1.3±0.3	-0.18±0.01	-1.17±0.02	0.990±0.007	0.990±0.007	-0.022±0.004	0.016±0.005
49.4	-1.0±0.3	-1.3±0.3	-0.15±0.01	-1.16±0.02	1.008±0.007	1.008±0.007	-0.023±0.004	0.018±0.006
54.5	-1.0±0.3	-1.2±0.2	-0.11±0.01	-1.16±0.02	1.023±0.007	1.023±0.007	-0.022±0.004	0.019±0.006
59.5	-1.1±0.3	-1.1±0.2	-0.08±0.01	-1.15±0.02	1.036±0.007	1.035±0.007	-0.020±0.004	0.020±0.006
64.6	-1.0±0.3	-1.0±0.2	-0.05±0.01	-1.15±0.02	1.049±0.007	1.049±0.007	-0.018±0.004	0.018±0.006
69.7	-1.0±0.3	-1.0±0.2	-0.03±0.01	-1.16±0.02	1.059±0.007	1.059±0.007	-0.018±0.004	0.019±0.006
74.8	-1.0±0.3	-0.8±0.2	-0.02±0.01	-1.15±0.02	1.067±0.007	1.067±0.007	-0.015±0.004	0.018±0.006
79.9	-0.9±0.3	-0.7±0.2	0.00±0.01	-1.15±0.02	1.072±0.007	1.072±0.007	-0.013±0.004	0.016±0.006
84.9	-0.8±0.3	-0.5±0.2	0.00±0.01	-1.16±0.02	1.075±0.007	1.075±0.007	-0.009±0.004	0.015±0.006
90.0	-0.7±0.3	-0.4±0.2	0.00±0.01	-1.16±0.02	1.077±0.007	1.077±0.007	-0.008±0.004	0.013±0.006
100.2	-0.7±0.3	-0.3±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	-0.005±0.004	0.012±0.006
110.3	-0.6±0.3	-0.2±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	-0.003±0.004	0.011±0.006
120.5	-0.5±0.3	-0.1±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.079±0.007	-0.001±0.004	0.009±0.006
130.7	-0.5±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.079±0.007	-0.001±0.004	0.009±0.006
140.8	-0.4±0.3	0.1±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.079±0.007	0.001±0.004	0.008±0.006

Table B.101 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm,-13 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.8±0.3	-0.1±0.5	-0.68±0.01	-1.15±0.02	0.683±0.007	0.682±0.007	-0.001±0.006	-0.046±0.004
4.7	3.5±0.3	-0.7±0.5	-0.67±0.01	-1.16±0.02	0.702±0.007	0.700±0.007	-0.008±0.006	-0.042±0.004
5.7	3.2±0.3	-1.1±0.5	-0.65±0.01	-1.15±0.02	0.711±0.007	0.710±0.007	-0.014±0.006	-0.039±0.004
6.7	2.7±0.3	-1.6±0.5	-0.62±0.01	-1.14±0.02	0.720±0.007	0.719±0.007	-0.020±0.006	-0.034±0.004
7.7	2.3±0.3	-1.9±0.5	-0.60±0.01	-1.15±0.02	0.741±0.007	0.740±0.007	-0.025±0.006	-0.030±0.004
8.7	2.1±0.3	-2.1±0.4	-0.58±0.01	-1.15±0.02	0.755±0.007	0.754±0.007	-0.028±0.006	-0.028±0.004
9.8	1.8±0.3	-2.1±0.4	-0.56±0.01	-1.16±0.02	0.775±0.007	0.774±0.007	-0.029±0.006	-0.025±0.004
10.8	1.6±0.3	-2.4±0.4	-0.55±0.01	-1.17±0.02	0.785±0.007	0.784±0.007	-0.033±0.006	-0.021±0.004
11.8	1.3±0.3	-2.5±0.4	-0.52±0.01	-1.15±0.02	0.794±0.007	0.793±0.007	-0.035±0.005	-0.018±0.004
12.8	0.9±0.3	-2.6±0.4	-0.51±0.01	-1.16±0.02	0.810±0.007	0.809±0.007	-0.037±0.005	-0.013±0.004
13.8	0.8±0.3	-2.7±0.4	-0.48±0.01	-1.15±0.02	0.818±0.007	0.817±0.007	-0.038±0.005	-0.012±0.005
16.4	0.5±0.3	-2.8±0.3	-0.45±0.01	-1.17±0.02	0.848±0.006	0.847±0.007	-0.042±0.005	-0.007±0.005
18.9	0.3±0.3	-2.9±0.3	-0.41±0.01	-1.17±0.02	0.872±0.006	0.870±0.006	-0.044±0.005	-0.005±0.005
21.4	0.0±0.3	-3.0±0.3	-0.37±0.01	-1.15±0.02	0.882±0.006	0.880±0.006	-0.046±0.005	-0.001±0.005
24.0	0.0±0.3	-2.9±0.3	-0.33±0.01	-1.16±0.02	0.909±0.006	0.908±0.006	-0.046±0.005	0.000±0.005
26.5	-0.2±0.3	-2.8±0.3	-0.31±0.01	-1.16±0.02	0.925±0.006	0.924±0.006	-0.046±0.005	0.003±0.005
29.1	-0.3±0.3	-2.9±0.3	-0.29±0.01	-1.16±0.02	0.936±0.006	0.935±0.006	-0.048±0.005	0.005±0.005
31.6	-0.4±0.3	-2.9±0.3	-0.26±0.01	-1.16±0.02	0.945±0.006	0.943±0.006	-0.048±0.005	0.006±0.005
34.1	-0.4±0.3	-2.8±0.3	-0.25±0.01	-1.15±0.02	0.951±0.006	0.950±0.006	-0.047±0.005	0.007±0.005
36.7	-0.6±0.3	-2.8±0.3	-0.21±0.01	-1.15±0.02	0.969±0.006	0.968±0.006	-0.047±0.005	0.010±0.005
39.2	-0.6±0.3	-2.7±0.3	-0.21±0.01	-1.16±0.02	0.977±0.006	0.976±0.006	-0.046±0.004	0.010±0.005
44.3	-0.6±0.3	-2.6±0.3	-0.18±0.01	-1.16±0.02	0.986±0.006	0.985±0.006	-0.045±0.004	0.010±0.005
49.4	-0.7±0.3	-2.3±0.3	-0.14±0.01	-1.15±0.02	1.004±0.006	1.003±0.006	-0.041±0.004	0.011±0.006
54.5	-0.7±0.3	-2.3±0.2	-0.12±0.01	-1.14±0.02	1.011±0.006	1.010±0.006	-0.040±0.004	0.013±0.006
59.5	-0.8±0.3	-2.0±0.2	-0.10±0.01	-1.14±0.02	1.019±0.006	1.018±0.006	-0.036±0.004	0.013±0.006
64.6	-0.7±0.3	-1.7±0.2	-0.09±0.01	-1.16±0.02	1.034±0.006	1.033±0.006	-0.030±0.004	0.013±0.006
69.7	-0.7±0.3	-1.5±0.2	-0.08±0.01	-1.16±0.02	1.036±0.006	1.036±0.006	-0.026±0.004	0.012±0.006
74.8	-0.7±0.3	-1.3±0.2	-0.09±0.01	-1.16±0.02	1.034±0.006	1.034±0.006	-0.024±0.004	0.012±0.006
79.9	-0.6±0.3	-1.1±0.2	-0.10±0.01	-1.16±0.02	1.027±0.006	1.027±0.006	-0.020±0.004	0.010±0.006
84.9	-0.6±0.3	-0.8±0.2	-0.11±0.01	-1.17±0.02	1.029±0.006	1.029±0.006	-0.014±0.004	0.011±0.006
90.0	-0.7±0.3	-0.5±0.2	-0.09±0.01	-1.15±0.02	1.028±0.006	1.028±0.006	-0.010±0.004	0.012±0.006
100.2	-0.8±0.3	-0.4±0.2	-0.09±0.01	-1.16±0.02	1.036±0.006	1.036±0.006	-0.007±0.004	0.014±0.006
110.3	-0.7±0.3	-0.3±0.2	-0.10±0.01	-1.16±0.02	1.029±0.006	1.029±0.006	-0.006±0.004	0.013±0.006
120.5	-0.6±0.3	-0.3±0.2	-0.12±0.01	-1.16±0.02	1.020±0.006	1.020±0.006	-0.006±0.004	0.011±0.006
130.7	-0.7±0.3	-0.3±0.2	-0.12±0.01	-1.16±0.02	1.018±0.006	1.018±0.006	-0.006±0.004	0.012±0.006
140.8	-0.7±0.3	-0.3±0.2	-0.12±0.01	-1.15±0.02	1.016±0.006	1.016±0.006	-0.005±0.004	0.012±0.006

Table B.102 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body at (x,z)=(453 mm, 0 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.1±0.3	-0.4±0.6	-0.72±0.01	-1.15±0.02	0.661±0.007	0.661±0.007	-0.005±0.007	-0.001±0.004
4.7	0.3±0.3	-1.4±0.6	-0.70±0.01	-1.15±0.02	0.677±0.007	0.677±0.007	-0.017±0.007	-0.004±0.004
5.7	0.3±0.3	-2.3±0.5	-0.68±0.01	-1.15±0.02	0.690±0.007	0.689±0.007	-0.027±0.006	-0.004±0.004
6.7	0.5±0.3	-2.7±0.5	-0.66±0.01	-1.16±0.02	0.708±0.007	0.707±0.007	-0.033±0.006	-0.006±0.004
7.7	0.5±0.3	-3.2±0.5	-0.64±0.01	-1.16±0.02	0.720±0.007	0.719±0.007	-0.040±0.006	-0.006±0.004
8.7	0.6±0.3	-3.6±0.5	-0.62±0.01	-1.16±0.02	0.731±0.007	0.730±0.007	-0.046±0.006	-0.007±0.004
9.8	0.7±0.3	-3.8±0.5	-0.60±0.01	-1.15±0.02	0.743±0.007	0.742±0.007	-0.050±0.006	-0.009±0.004
10.8	0.7±0.3	-4.0±0.5	-0.59±0.01	-1.16±0.02	0.756±0.007	0.754±0.007	-0.053±0.006	-0.009±0.004
11.8	0.7±0.3	-4.4±0.4	-0.58±0.01	-1.16±0.02	0.763±0.007	0.760±0.007	-0.058±0.006	-0.010±0.004
12.8	0.8±0.3	-4.4±0.4	-0.56±0.01	-1.16±0.02	0.776±0.007	0.773±0.007	-0.060±0.006	-0.010±0.004
13.8	0.7±0.3	-4.6±0.4	-0.55±0.01	-1.16±0.02	0.781±0.007	0.778±0.007	-0.063±0.006	-0.009±0.004
16.4	0.8±0.3	-4.8±0.4	-0.52±0.01	-1.16±0.02	0.798±0.007	0.795±0.007	-0.066±0.006	-0.011±0.004
18.9	0.7±0.3	-4.9±0.4	-0.50±0.01	-1.15±0.02	0.811±0.007	0.808±0.007	-0.070±0.005	-0.010±0.004
21.4	0.8±0.3	-5.1±0.4	-0.48±0.01	-1.15±0.02	0.819±0.007	0.816±0.007	-0.073±0.005	-0.012±0.005
24.0	0.8±0.3	-5.0±0.4	-0.46±0.01	-1.15±0.02	0.828±0.007	0.825±0.007	-0.073±0.005	-0.012±0.005
26.5	0.9±0.3	-5.0±0.4	-0.45±0.01	-1.16±0.02	0.839±0.007	0.836±0.007	-0.072±0.005	-0.013±0.005
29.1	0.8±0.3	-4.9±0.4	-0.44±0.01	-1.16±0.02	0.845±0.007	0.842±0.007	-0.072±0.005	-0.012±0.005
31.6	0.8±0.3	-4.9±0.4	-0.44±0.01	-1.16±0.02	0.850±0.007	0.846±0.007	-0.073±0.005	-0.012±0.005
34.1	0.8±0.3	-4.8±0.4	-0.43±0.01	-1.16±0.02	0.854±0.007	0.851±0.007	-0.071±0.005	-0.012±0.005
36.7	0.8±0.3	-4.7±0.4	-0.42±0.01	-1.15±0.02	0.857±0.007	0.854±0.007	-0.070±0.005	-0.012±0.005
39.2	0.8±0.3	-4.7±0.3	-0.41±0.01	-1.15±0.02	0.862±0.007	0.859±0.007	-0.070±0.005	-0.012±0.005
44.3	0.8±0.3	-4.3±0.3	-0.41±0.01	-1.16±0.02	0.865±0.007	0.863±0.007	-0.065±0.005	-0.012±0.005
49.4	0.8±0.3	-4.0±0.3	-0.40±0.01	-1.16±0.02	0.868±0.007	0.866±0.007	-0.060±0.005	-0.013±0.005
54.5	0.9±0.3	-3.8±0.3	-0.40±0.01	-1.15±0.02	0.866±0.007	0.864±0.007	-0.057±0.005	-0.014±0.005
59.5	1.0±0.3	-3.3±0.3	-0.41±0.01	-1.15±0.02	0.863±0.007	0.862±0.007	-0.050±0.005	-0.015±0.005
64.6	1.1±0.3	-3.0±0.3	-0.41±0.01	-1.15±0.02	0.862±0.007	0.861±0.007	-0.045±0.005	-0.017±0.005
69.7	1.2±0.3	-2.5±0.3	-0.42±0.01	-1.15±0.02	0.857±0.007	0.856±0.007	-0.038±0.005	-0.018±0.005
74.8	1.2±0.3	-2.3±0.4	-0.43±0.01	-1.15±0.02	0.848±0.007	0.847±0.007	-0.033±0.005	-0.018±0.005
79.9	1.4±0.3	-2.1±0.4	-0.45±0.01	-1.15±0.02	0.839±0.007	0.838±0.007	-0.030±0.005	-0.021±0.005
84.9	1.6±0.3	-1.8±0.4	-0.46±0.01	-1.16±0.02	0.831±0.007	0.830±0.007	-0.026±0.005	-0.023±0.005
90.0	1.5±0.3	-1.5±0.4	-0.48±0.01	-1.15±0.02	0.820±0.007	0.819±0.007	-0.022±0.005	-0.021±0.005
100.2	1.0±0.3	-1.2±0.4	-0.51±0.01	-1.16±0.02	0.801±0.007	0.801±0.007	-0.017±0.006	-0.014±0.004
110.3	0.8±0.3	-1.0±0.4	-0.53±0.01	-1.15±0.02	0.785±0.007	0.785±0.007	-0.013±0.006	-0.012±0.004
120.5	0.8±0.3	-0.9±0.4	-0.57±0.01	-1.16±0.02	0.766±0.007	0.766±0.007	-0.012±0.006	-0.010±0.004
130.7	0.8±0.3	-0.9±0.4	-0.57±0.01	-1.16±0.02	0.763±0.007	0.763±0.007	-0.012±0.006	-0.011±0.004
140.8	1.0±0.3	-0.9±0.4	-0.57±0.01	-1.16±0.02	0.764±0.007	0.764±0.007	-0.013±0.006	-0.013±0.004

Table B.103 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.8±0.3	1.9±0.4	-0.72±0.01	-1.31±0.02	0.764±0.007	0.763±0.007	0.026±0.006	-0.011±0.004
4.7	1.2±0.3	1.3±0.4	-0.68±0.01	-1.31±0.02	0.791±0.007	0.791±0.007	0.017±0.006	-0.016±0.004
5.7	1.2±0.3	0.8±0.4	-0.66±0.01	-1.29±0.02	0.799±0.007	0.799±0.007	0.012±0.006	-0.017±0.004
6.7	1.2±0.3	0.8±0.4	-0.64±0.01	-1.31±0.02	0.817±0.007	0.817±0.007	0.012±0.005	-0.017±0.005
7.7	1.3±0.3	0.7±0.4	-0.62±0.01	-1.32±0.02	0.835±0.007	0.834±0.007	0.010±0.005	-0.019±0.005
8.7	1.2±0.3	0.5±0.4	-0.59±0.01	-1.31±0.02	0.845±0.007	0.845±0.007	0.007±0.005	-0.018±0.005
9.8	1.2±0.3	0.5±0.3	-0.58±0.01	-1.30±0.02	0.851±0.007	0.851±0.007	0.007±0.005	-0.018±0.005
10.8	1.2±0.3	0.4±0.3	-0.56±0.01	-1.31±0.02	0.868±0.007	0.868±0.007	0.007±0.005	-0.018±0.005
11.8	1.2±0.3	0.5±0.3	-0.54±0.01	-1.30±0.02	0.871±0.007	0.870±0.007	0.007±0.005	-0.019±0.005
12.8	1.2±0.3	0.4±0.3	-0.54±0.01	-1.31±0.02	0.881±0.006	0.881±0.006	0.007±0.005	-0.018±0.005
13.8	1.1±0.3	0.4±0.3	-0.51±0.01	-1.31±0.02	0.892±0.006	0.892±0.006	0.007±0.005	-0.018±0.005
16.4	1.0±0.3	0.4±0.3	-0.47±0.01	-1.29±0.02	0.907±0.006	0.907±0.006	0.007±0.005	-0.016±0.005
18.9	0.9±0.3	0.5±0.3	-0.45±0.01	-1.31±0.02	0.925±0.006	0.925±0.006	0.007±0.005	-0.015±0.005
21.4	0.9±0.3	0.5±0.3	-0.43±0.01	-1.31±0.02	0.943±0.006	0.942±0.006	0.008±0.005	-0.015±0.005
24.0	0.8±0.3	0.4±0.3	-0.39±0.01	-1.31±0.02	0.959±0.006	0.959±0.006	0.007±0.005	-0.013±0.005
26.5	0.8±0.3	0.4±0.3	-0.37±0.01	-1.31±0.02	0.971±0.006	0.970±0.006	0.007±0.005	-0.013±0.005
29.1	0.8±0.3	0.4±0.3	-0.34±0.01	-1.30±0.02	0.983±0.006	0.983±0.006	0.008±0.004	-0.013±0.005
31.6	0.7±0.3	0.4±0.3	-0.32±0.01	-1.30±0.02	0.995±0.006	0.995±0.006	0.008±0.004	-0.012±0.005
34.1	0.7±0.3	0.4±0.2	-0.29±0.01	-1.31±0.02	1.011±0.007	1.011±0.007	0.008±0.004	-0.012±0.006
36.7	0.7±0.3	0.5±0.2	-0.27±0.01	-1.30±0.02	1.015±0.007	1.014±0.007	0.008±0.004	-0.012±0.006
39.2	0.7±0.3	0.4±0.2	-0.25±0.01	-1.32±0.02	1.032±0.007	1.031±0.007	0.008±0.004	-0.012±0.006
44.3	0.6±0.3	0.4±0.2	-0.20±0.01	-1.30±0.02	1.047±0.007	1.047±0.007	0.008±0.004	-0.011±0.006
49.4	0.6±0.3	0.4±0.2	-0.16±0.01	-1.31±0.02	1.072±0.007	1.072±0.007	0.008±0.004	-0.011±0.006
54.5	0.5±0.3	0.4±0.2	-0.11±0.01	-1.29±0.02	1.083±0.007	1.083±0.007	0.008±0.004	-0.010±0.006
59.5	0.5±0.3	0.4±0.2	-0.08±0.01	-1.29±0.02	1.102±0.007	1.102±0.007	0.008±0.004	-0.010±0.006
64.6	0.5±0.3	0.5±0.2	-0.05±0.01	-1.29±0.02	1.115±0.007	1.115±0.007	0.010±0.004	-0.010±0.006
69.7	0.5±0.3	0.6±0.2	-0.03±0.01	-1.29±0.02	1.123±0.007	1.123±0.007	0.011±0.004	-0.010±0.006
74.8	0.5±0.3	0.6±0.2	-0.01±0.01	-1.30±0.02	1.132±0.007	1.132±0.007	0.012±0.004	-0.010±0.006
79.9	0.5±0.3	0.6±0.2	0.00±0.01	-1.29±0.02	1.137±0.007	1.137±0.007	0.012±0.004	-0.010±0.006
84.9	0.5±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.140±0.007	1.139±0.007	0.012±0.004	-0.010±0.006
90.0	0.6±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.141±0.007	1.141±0.007	0.012±0.004	-0.012±0.006
100.2	0.6±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.141±0.007	1.141±0.007	0.012±0.004	-0.012±0.006
110.3	0.6±0.3	0.5±0.2	0.01±0.01	-1.29±0.02	1.140±0.007	1.140±0.007	0.010±0.004	-0.012±0.006
120.5	0.7±0.3	0.5±0.2	0.01±0.01	-1.29±0.02	1.140±0.007	1.140±0.007	0.010±0.004	-0.013±0.006
130.7	0.7±0.3	0.5±0.2	0.01±0.01	-1.29±0.02	1.139±0.007	1.139±0.007	0.009±0.004	-0.014±0.006
140.8	0.7±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.138±0.007	1.138±0.007	0.011±0.004	-0.013±0.006

Table B.104 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	1.2±0.3	1.7±0.4	-0.71±0.01	-1.33±0.02	0.788±0.007	0.787±0.007	0.023±0.006	-0.017±0.004
4.7	1.4±0.3	1.0±0.4	-0.67±0.01	-1.33±0.02	0.813±0.007	0.812±0.007	0.014±0.005	-0.020±0.004
5.7	1.5±0.3	0.7±0.4	-0.64±0.01	-1.34±0.02	0.833±0.007	0.833±0.007	0.011±0.005	-0.021±0.005
6.7	1.5±0.3	0.5±0.4	-0.62±0.01	-1.33±0.02	0.846±0.007	0.846±0.007	0.008±0.005	-0.023±0.005
7.7	1.5±0.3	0.5±0.3	-0.60±0.01	-1.33±0.02	0.858±0.007	0.858±0.007	0.007±0.005	-0.022±0.005
8.7	1.4±0.3	0.4±0.3	-0.58±0.01	-1.34±0.02	0.869±0.007	0.869±0.007	0.007±0.005	-0.021±0.005
9.8	1.3±0.3	0.4±0.3	-0.56±0.01	-1.34±0.02	0.882±0.007	0.882±0.007	0.007±0.005	-0.021±0.005
10.8	1.3±0.3	0.4±0.3	-0.54±0.01	-1.32±0.02	0.887±0.007	0.886±0.007	0.006±0.005	-0.020±0.005
11.8	1.2±0.3	0.4±0.3	-0.53±0.01	-1.34±0.02	0.900±0.006	0.900±0.006	0.006±0.005	-0.019±0.005
12.8	1.2±0.3	0.4±0.3	-0.52±0.01	-1.33±0.02	0.899±0.006	0.899±0.006	0.006±0.005	-0.019±0.005
13.8	1.1±0.3	0.4±0.3	-0.50±0.01	-1.34±0.02	0.914±0.006	0.914±0.006	0.007±0.005	-0.018±0.005
16.4	1.1±0.3	0.4±0.3	-0.47±0.01	-1.33±0.02	0.931±0.006	0.931±0.006	0.007±0.005	-0.017±0.005
18.9	0.9±0.3	0.4±0.3	-0.44±0.01	-1.34±0.02	0.953±0.006	0.953±0.006	0.006±0.005	-0.015±0.005
21.4	0.9±0.3	0.4±0.3	-0.40±0.01	-1.32±0.02	0.960±0.006	0.959±0.006	0.007±0.005	-0.015±0.005
24.0	0.7±0.3	0.4±0.3	-0.37±0.01	-1.33±0.02	0.977±0.006	0.977±0.006	0.007±0.005	-0.011±0.005
26.5	0.7±0.3	0.4±0.3	-0.35±0.01	-1.33±0.02	0.990±0.007	0.990±0.006	0.007±0.004	-0.011±0.005
29.1	0.6±0.3	0.4±0.3	-0.33±0.01	-1.33±0.02	1.000±0.007	1.000±0.007	0.008±0.004	-0.010±0.006
31.6	0.5±0.3	0.4±0.2	-0.31±0.01	-1.34±0.02	1.015±0.007	1.015±0.007	0.008±0.004	-0.010±0.006
34.1	0.5±0.3	0.4±0.2	-0.28±0.01	-1.33±0.02	1.025±0.007	1.025±0.007	0.008±0.004	-0.009±0.006
36.7	0.4±0.3	0.5±0.2	-0.26±0.01	-1.34±0.02	1.039±0.007	1.039±0.007	0.009±0.004	-0.008±0.006
39.2	0.4±0.3	0.4±0.2	-0.23±0.01	-1.33±0.02	1.050±0.007	1.050±0.007	0.008±0.004	-0.008±0.006
44.3	0.4±0.3	0.4±0.2	-0.19±0.01	-1.33±0.02	1.066±0.007	1.066±0.007	0.008±0.004	-0.007±0.006
49.4	0.4±0.3	0.4±0.2	-0.14±0.01	-1.32±0.02	1.084±0.007	1.084±0.007	0.008±0.004	-0.007±0.006
54.5	0.3±0.3	0.4±0.2	-0.12±0.01	-1.34±0.02	1.106±0.007	1.106±0.007	0.008±0.004	-0.006±0.006
59.5	0.3±0.3	0.5±0.2	-0.07±0.01	-1.32±0.02	1.115±0.007	1.115±0.007	0.009±0.004	-0.005±0.006
64.6	0.3±0.3	0.5±0.2	-0.05±0.01	-1.32±0.02	1.127±0.007	1.127±0.007	0.009±0.004	-0.006±0.006
69.7	0.3±0.3	0.5±0.2	-0.02±0.01	-1.32±0.02	1.140±0.007	1.140±0.007	0.010±0.004	-0.006±0.006
74.8	0.3±0.3	0.5±0.2	-0.01±0.01	-1.32±0.02	1.147±0.007	1.147±0.007	0.010±0.004	-0.007±0.006
79.9	0.3±0.3	0.5±0.2	0.00±0.01	-1.32±0.02	1.149±0.007	1.149±0.007	0.010±0.004	-0.006±0.006
84.9	0.3±0.3	0.5±0.2	0.01±0.01	-1.32±0.02	1.152±0.007	1.152±0.007	0.010±0.004	-0.006±0.006
90.0	0.3±0.3	0.5±0.2	0.01±0.01	-1.32±0.02	1.151±0.007	1.151±0.007	0.010±0.004	-0.005±0.006
100.2	0.3±0.3	0.5±0.2	0.01±0.01	-1.32±0.02	1.153±0.007	1.153±0.007	0.010±0.004	-0.007±0.006
110.3	0.4±0.3	0.4±0.2	0.01±0.01	-1.32±0.02	1.152±0.007	1.152±0.007	0.009±0.004	-0.008±0.006
120.5	0.4±0.3	0.4±0.2	0.01±0.01	-1.31±0.02	1.150±0.007	1.150±0.007	0.009±0.004	-0.008±0.006
130.7	0.5±0.3	0.4±0.2	0.01±0.01	-1.32±0.02	1.151±0.007	1.151±0.007	0.009±0.004	-0.010±0.006
140.8	0.4±0.3	0.4±0.2	0.01±0.01	-1.31±0.02	1.150±0.007	1.150±0.007	0.009±0.004	-0.008±0.006

Table B.105 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	1.5±0.3	1.3±0.4	-0.71±0.01	-1.36±0.02	0.808±0.007	0.807±0.007	0.019±0.006	-0.021±0.004
4.7	1.6±0.3	0.8±0.4	-0.66±0.01	-1.36±0.02	0.836±0.007	0.836±0.007	0.012±0.005	-0.024±0.005
5.7	1.7±0.3	0.5±0.4	-0.64±0.01	-1.37±0.02	0.853±0.007	0.852±0.007	0.008±0.005	-0.025±0.005
6.7	1.7±0.3	0.5±0.3	-0.62±0.01	-1.36±0.02	0.865±0.007	0.865±0.007	0.007±0.005	-0.025±0.005
7.7	1.6±0.3	0.5±0.3	-0.59±0.01	-1.36±0.02	0.876±0.007	0.876±0.007	0.007±0.005	-0.024±0.005
8.7	1.5±0.3	0.5±0.3	-0.58±0.01	-1.36±0.02	0.886±0.007	0.886±0.007	0.007±0.005	-0.023±0.005
9.8	1.5±0.3	0.4±0.3	-0.56±0.01	-1.36±0.02	0.898±0.007	0.897±0.007	0.007±0.005	-0.023±0.005
10.8	1.3±0.3	0.4±0.3	-0.55±0.01	-1.37±0.02	0.907±0.007	0.907±0.007	0.007±0.005	-0.021±0.005
11.8	1.3±0.3	0.4±0.3	-0.52±0.01	-1.37±0.02	0.917±0.007	0.917±0.007	0.007±0.005	-0.022±0.005
12.8	1.3±0.3	0.4±0.3	-0.51±0.01	-1.36±0.02	0.920±0.007	0.919±0.007	0.007±0.005	-0.020±0.005
13.8	1.2±0.3	0.4±0.3	-0.50±0.01	-1.37±0.02	0.930±0.007	0.930±0.007	0.007±0.005	-0.019±0.005
16.4	1.0±0.3	0.4±0.3	-0.47±0.01	-1.36±0.02	0.943±0.007	0.943±0.007	0.007±0.005	-0.016±0.005
18.9	0.9±0.3	0.4±0.3	-0.43±0.01	-1.35±0.02	0.960±0.007	0.960±0.007	0.007±0.005	-0.015±0.005
21.4	0.8±0.3	0.4±0.3	-0.41±0.01	-1.37±0.02	0.978±0.007	0.978±0.007	0.007±0.005	-0.014±0.005
24.0	0.7±0.3	0.4±0.3	-0.38±0.01	-1.36±0.02	0.993±0.007	0.993±0.007	0.008±0.004	-0.013±0.005
26.5	0.7±0.3	0.4±0.3	-0.35±0.01	-1.35±0.02	0.998±0.007	0.998±0.007	0.008±0.004	-0.011±0.006
29.1	0.6±0.3	0.4±0.2	-0.32±0.01	-1.35±0.02	1.013±0.007	1.012±0.007	0.008±0.004	-0.010±0.006
31.6	0.5±0.3	0.4±0.2	-0.29±0.01	-1.34±0.02	1.026±0.007	1.026±0.007	0.008±0.004	-0.009±0.006
34.1	0.5±0.3	0.5±0.2	-0.27±0.01	-1.34±0.02	1.037±0.007	1.037±0.007	0.008±0.004	-0.009±0.006
36.7	0.5±0.3	0.4±0.2	-0.25±0.01	-1.34±0.02	1.045±0.007	1.045±0.007	0.008±0.004	-0.009±0.006
39.2	0.4±0.3	0.5±0.2	-0.23±0.01	-1.35±0.02	1.058±0.007	1.057±0.007	0.008±0.004	-0.007±0.006
44.3	0.3±0.3	0.5±0.2	-0.19±0.01	-1.35±0.02	1.075±0.007	1.075±0.007	0.009±0.004	-0.006±0.006
49.4	0.3±0.3	0.5±0.2	-0.15±0.01	-1.36±0.02	1.099±0.007	1.099±0.007	0.009±0.004	-0.006±0.006
54.5	0.2±0.3	0.5±0.2	-0.10±0.01	-1.34±0.02	1.111±0.007	1.111±0.007	0.010±0.004	-0.004±0.006
59.5	0.1±0.3	0.5±0.2	-0.08±0.01	-1.35±0.02	1.126±0.007	1.126±0.007	0.011±0.004	-0.002±0.006
64.6	0.1±0.3	0.5±0.2	-0.04±0.01	-1.34±0.02	1.141±0.007	1.141±0.007	0.011±0.004	-0.002±0.006
69.7	0.1±0.3	0.5±0.2	-0.03±0.01	-1.35±0.02	1.150±0.007	1.150±0.007	0.010±0.004	-0.002±0.006
74.8	0.1±0.3	0.6±0.2	-0.01±0.01	-1.34±0.02	1.153±0.007	1.153±0.007	0.012±0.004	-0.002±0.006
79.9	0.1±0.3	0.5±0.2	0.00±0.01	-1.34±0.02	1.159±0.007	1.159±0.007	0.011±0.004	-0.002±0.006
84.9	0.1±0.3	0.6±0.2	0.01±0.01	-1.34±0.02	1.160±0.007	1.160±0.007	0.012±0.004	-0.002±0.006
90.0	0.2±0.3	0.5±0.2	0.01±0.01	-1.34±0.02	1.161±0.007	1.161±0.007	0.010±0.004	-0.003±0.006
100.2	0.2±0.3	0.5±0.2	0.01±0.01	-1.34±0.02	1.161±0.007	1.161±0.007	0.011±0.004	-0.004±0.006
110.3	0.2±0.3	0.5±0.2	0.01±0.01	-1.33±0.02	1.159±0.007	1.159±0.007	0.011±0.004	-0.004±0.006
120.5	0.3±0.3	0.5±0.2	0.01±0.01	-1.34±0.02	1.160±0.007	1.160±0.007	0.010±0.004	-0.005±0.006
130.7	0.3±0.3	0.6±0.2	0.01±0.01	-1.33±0.02	1.159±0.007	1.159±0.007	0.011±0.004	-0.006±0.006
140.8	0.3±0.3	0.4±0.2	0.01±0.01	-1.33±0.02	1.157±0.007	1.157±0.007	0.009±0.004	-0.005±0.006

Table B.106 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.3±0.3	3.3±0.4	-0.78±0.01	-1.38±0.02	0.774±0.007	0.772±0.007	0.045±0.006	-0.032±0.004
4.7	2.6±0.3	1.9±0.4	-0.74±0.01	-1.40±0.02	0.809±0.007	0.808±0.007	0.026±0.006	-0.037±0.004
5.7	2.7±0.3	1.4±0.4	-0.72±0.01	-1.39±0.02	0.823±0.007	0.822±0.007	0.020±0.005	-0.038±0.005
6.7	2.6±0.3	1.1±0.4	-0.69±0.01	-1.40±0.02	0.840±0.007	0.839±0.007	0.017±0.005	-0.039±0.005
7.7	2.5±0.3	1.1±0.4	-0.67±0.01	-1.39±0.02	0.849±0.007	0.848±0.007	0.017±0.005	-0.037±0.005
8.7	2.3±0.3	1.1±0.3	-0.66±0.01	-1.40±0.02	0.861±0.007	0.860±0.007	0.017±0.005	-0.034±0.005
9.8	2.1±0.3	1.0±0.3	-0.64±0.01	-1.41±0.02	0.875±0.007	0.874±0.007	0.016±0.005	-0.033±0.005
10.8	2.0±0.3	1.0±0.3	-0.62±0.01	-1.40±0.02	0.885±0.007	0.884±0.007	0.015±0.005	-0.030±0.005
11.8	1.8±0.3	0.9±0.3	-0.60±0.01	-1.39±0.02	0.890±0.007	0.889±0.006	0.014±0.005	-0.029±0.005
12.8	1.7±0.3	0.9±0.3	-0.58±0.01	-1.40±0.02	0.905±0.006	0.905±0.006	0.015±0.005	-0.027±0.005
13.8	1.6±0.3	0.9±0.3	-0.56±0.01	-1.40±0.02	0.915±0.006	0.915±0.006	0.014±0.005	-0.026±0.005
16.4	1.4±0.3	0.8±0.3	-0.51±0.01	-1.38±0.02	0.935±0.006	0.935±0.006	0.013±0.005	-0.024±0.005
18.9	1.3±0.3	0.8±0.3	-0.48±0.01	-1.39±0.02	0.953±0.006	0.953±0.006	0.014±0.005	-0.021±0.005
21.4	1.1±0.3	0.7±0.3	-0.44±0.01	-1.39±0.02	0.974±0.006	0.974±0.006	0.012±0.005	-0.019±0.005
24.0	1.1±0.3	0.7±0.3	-0.40±0.01	-1.38±0.02	0.993±0.007	0.992±0.006	0.012±0.004	-0.018±0.005
26.5	0.9±0.3	0.7±0.3	-0.38±0.01	-1.38±0.02	1.000±0.007	1.000±0.007	0.013±0.004	-0.016±0.006
29.1	0.8±0.3	0.7±0.2	-0.35±0.01	-1.37±0.02	1.013±0.007	1.012±0.007	0.012±0.004	-0.015±0.006
31.6	0.7±0.3	0.7±0.2	-0.34±0.01	-1.39±0.02	1.028±0.007	1.028±0.007	0.013±0.004	-0.013±0.006
34.1	0.6±0.3	0.7±0.2	-0.30±0.01	-1.37±0.02	1.037±0.007	1.037±0.007	0.012±0.004	-0.012±0.006
36.7	0.6±0.3	0.7±0.2	-0.27±0.01	-1.37±0.02	1.049±0.007	1.049±0.007	0.012±0.004	-0.011±0.006
39.2	0.6±0.3	0.6±0.2	-0.25±0.01	-1.38±0.02	1.061±0.007	1.061±0.007	0.012±0.004	-0.011±0.006
44.3	0.5±0.3	0.6±0.2	-0.21±0.01	-1.38±0.02	1.083±0.007	1.083±0.007	0.012±0.004	-0.009±0.006
49.4	0.4±0.3	0.6±0.2	-0.16±0.01	-1.38±0.02	1.101±0.007	1.101±0.007	0.011±0.004	-0.008±0.006
54.5	0.3±0.3	0.6±0.2	-0.12±0.01	-1.38±0.02	1.120±0.007	1.120±0.007	0.012±0.004	-0.006±0.006
59.5	0.3±0.3	0.6±0.2	-0.09±0.01	-1.38±0.02	1.135±0.007	1.135±0.007	0.012±0.004	-0.005±0.006
64.6	0.2±0.3	0.6±0.2	-0.06±0.01	-1.38±0.02	1.149±0.007	1.149±0.007	0.012±0.004	-0.004±0.006
69.7	0.2±0.3	0.6±0.2	-0.04±0.01	-1.39±0.02	1.161±0.007	1.160±0.007	0.012±0.004	-0.004±0.006
74.8	0.2±0.3	0.6±0.2	-0.01±0.01	-1.38±0.02	1.168±0.007	1.168±0.007	0.013±0.004	-0.004±0.006
79.9	0.3±0.3	0.6±0.2	-0.01±0.01	-1.38±0.02	1.173±0.007	1.173±0.007	0.013±0.004	-0.005±0.006
84.9	0.3±0.3	0.6±0.2	0.01±0.01	-1.38±0.02	1.175±0.007	1.175±0.007	0.013±0.004	-0.006±0.006
90.0	0.3±0.3	0.6±0.2	0.01±0.01	-1.38±0.02	1.177±0.007	1.177±0.007	0.013±0.004	-0.006±0.006
100.2	0.3±0.3	0.6±0.2	0.01±0.01	-1.37±0.02	1.177±0.007	1.177±0.007	0.013±0.004	-0.007±0.006
110.3	0.4±0.3	0.6±0.2	0.01±0.01	-1.37±0.02	1.177±0.007	1.177±0.007	0.012±0.004	-0.007±0.006
120.5	0.4±0.3	0.6±0.2	0.01±0.01	-1.38±0.02	1.177±0.007	1.177±0.007	0.013±0.004	-0.008±0.006
130.7	0.4±0.3	0.5±0.2	0.01±0.01	-1.37±0.02	1.176±0.007	1.176±0.007	0.011±0.004	-0.008±0.006
140.8	0.5±0.3	0.6±0.2	0.01±0.01	-1.37±0.02	1.175±0.007	1.174±0.007	0.012±0.004	-0.010±0.006

Table B.107 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-114 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.4±0.3	3.1±0.4	-0.76±0.01	-1.42±0.02	0.813±0.007	0.810±0.007	0.044±0.006	-0.048±0.004
4.7	3.7±0.3	1.8±0.4	-0.72±0.01	-1.43±0.02	0.846±0.007	0.844±0.007	0.027±0.005	-0.055±0.005
5.7	3.7±0.3	1.3±0.3	-0.68±0.01	-1.43±0.02	0.863±0.007	0.861±0.007	0.019±0.005	-0.056±0.005
6.7	3.6±0.3	1.1±0.3	-0.66±0.01	-1.43±0.02	0.876±0.007	0.874±0.007	0.017±0.005	-0.054±0.005
7.7	3.4±0.3	1.0±0.3	-0.65±0.01	-1.43±0.02	0.882±0.007	0.881±0.007	0.016±0.005	-0.052±0.005
8.7	3.0±0.3	0.9±0.3	-0.63±0.01	-1.43±0.02	0.894±0.007	0.893±0.007	0.015±0.005	-0.047±0.005
9.8	2.7±0.3	0.9±0.3	-0.62±0.01	-1.43±0.02	0.900±0.007	0.899±0.007	0.014±0.005	-0.043±0.005
10.8	2.5±0.3	0.9±0.3	-0.60±0.01	-1.43±0.02	0.911±0.007	0.910±0.007	0.014±0.005	-0.039±0.005
11.8	2.2±0.3	0.8±0.3	-0.60±0.01	-1.44±0.02	0.917±0.007	0.917±0.006	0.013±0.005	-0.035±0.005
12.8	1.9±0.3	0.8±0.3	-0.57±0.01	-1.42±0.02	0.920±0.007	0.920±0.006	0.012±0.005	-0.031±0.005
13.8	1.8±0.3	0.8±0.3	-0.55±0.01	-1.42±0.02	0.930±0.006	0.930±0.006	0.013±0.005	-0.029±0.005
16.4	1.5±0.3	0.7±0.3	-0.52±0.01	-1.42±0.02	0.948±0.006	0.948±0.006	0.012±0.005	-0.024±0.005
18.9	1.2±0.3	0.7±0.3	-0.48±0.01	-1.42±0.02	0.968±0.007	0.967±0.007	0.013±0.005	-0.020±0.005
21.4	1.0±0.3	0.8±0.3	-0.45±0.01	-1.42±0.02	0.988±0.007	0.988±0.007	0.014±0.005	-0.018±0.005
24.0	0.9±0.3	0.8±0.3	-0.41±0.01	-1.42±0.02	1.003±0.007	1.003±0.007	0.014±0.004	-0.015±0.006
26.5	0.8±0.3	0.7±0.2	-0.38±0.01	-1.42±0.02	1.021±0.007	1.021±0.007	0.013±0.004	-0.015±0.006
29.1	0.7±0.3	0.7±0.2	-0.35±0.01	-1.41±0.02	1.032±0.007	1.032±0.007	0.013±0.004	-0.013±0.006
31.6	0.7±0.3	0.7±0.2	-0.32±0.01	-1.40±0.02	1.041±0.007	1.041±0.007	0.012±0.004	-0.012±0.006
34.1	0.6±0.3	0.7±0.2	-0.30±0.01	-1.42±0.02	1.060±0.007	1.060±0.007	0.012±0.004	-0.011±0.006
36.7	0.5±0.3	0.7±0.2	-0.28±0.01	-1.42±0.02	1.066±0.007	1.065±0.007	0.012±0.004	-0.010±0.006
39.2	0.5±0.3	0.7±0.2	-0.25±0.01	-1.41±0.02	1.078±0.007	1.078±0.007	0.012±0.004	-0.010±0.006
44.3	0.4±0.3	0.6±0.2	-0.22±0.01	-1.42±0.02	1.095±0.007	1.095±0.007	0.012±0.004	-0.008±0.006
49.4	0.4±0.3	0.6±0.2	-0.17±0.01	-1.43±0.02	1.119±0.007	1.119±0.007	0.012±0.004	-0.008±0.006
54.5	0.3±0.3	0.6±0.2	-0.13±0.01	-1.41±0.02	1.132±0.007	1.131±0.007	0.012±0.004	-0.006±0.006
59.5	0.3±0.3	0.6±0.2	-0.10±0.01	-1.41±0.02	1.148±0.007	1.148±0.007	0.011±0.004	-0.005±0.006
64.6	0.3±0.3	0.6±0.2	-0.06±0.01	-1.41±0.02	1.162±0.007	1.162±0.007	0.012±0.004	-0.005±0.006
69.7	0.3±0.3	0.6±0.2	-0.04±0.01	-1.41±0.02	1.173±0.007	1.173±0.007	0.012±0.004	-0.005±0.006
74.8	0.3±0.3	0.6±0.2	-0.02±0.01	-1.41±0.02	1.181±0.007	1.181±0.007	0.012±0.004	-0.005±0.007
79.9	0.3±0.3	0.6±0.2	0.00±0.01	-1.41±0.02	1.186±0.007	1.185±0.007	0.012±0.004	-0.006±0.007
84.9	0.3±0.3	0.6±0.2	0.00±0.01	-1.41±0.02	1.189±0.007	1.189±0.007	0.012±0.004	-0.006±0.007
90.0	0.4±0.3	0.6±0.2	0.01±0.01	-1.41±0.02	1.191±0.007	1.191±0.007	0.012±0.004	-0.007±0.007
100.2	0.3±0.3	0.5±0.2	0.01±0.01	-1.41±0.02	1.190±0.007	1.190±0.007	0.011±0.004	-0.007±0.007
110.3	0.4±0.3	0.6±0.2	0.01±0.01	-1.41±0.02	1.191±0.007	1.191±0.007	0.012±0.004	-0.008±0.007
120.5	0.4±0.3	0.6±0.2	0.01±0.01	-1.41±0.02	1.190±0.007	1.190±0.007	0.012±0.004	-0.008±0.007
130.7	0.4±0.3	0.6±0.2	0.01±0.01	-1.41±0.02	1.190±0.007	1.190±0.007	0.012±0.004	-0.009±0.007
140.8	0.4±0.3	0.5±0.2	0.01±0.01	-1.40±0.02	1.189±0.007	1.189±0.007	0.011±0.004	-0.008±0.007

Table B.108 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-108 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.7±0.3	4.2±0.4	-0.75±0.01	-1.43±0.02	0.826±0.007	0.822±0.007	0.060±0.005	-0.053±0.005
4.7	3.9±0.3	2.2±0.4	-0.70±0.01	-1.44±0.02	0.857±0.007	0.855±0.007	0.032±0.005	-0.058±0.005
5.7	3.9±0.3	1.5±0.3	-0.68±0.01	-1.45±0.02	0.878±0.007	0.875±0.007	0.023±0.005	-0.059±0.005
6.7	3.8±0.3	1.2±0.3	-0.65±0.01	-1.44±0.02	0.887±0.007	0.885±0.007	0.019±0.005	-0.058±0.005
7.7	3.4±0.3	1.1±0.3	-0.64±0.01	-1.44±0.02	0.895±0.007	0.893±0.007	0.017±0.005	-0.053±0.005
8.7	3.1±0.3	1.0±0.3	-0.62±0.01	-1.44±0.02	0.905±0.007	0.903±0.007	0.016±0.005	-0.049±0.005
9.8	2.8±0.3	1.0±0.3	-0.60±0.01	-1.43±0.02	0.910±0.007	0.908±0.007	0.015±0.005	-0.045±0.005
10.8	2.5±0.3	0.9±0.3	-0.59±0.01	-1.44±0.02	0.921±0.007	0.920±0.007	0.015±0.005	-0.041±0.005
11.8	2.2±0.3	0.8±0.3	-0.58±0.01	-1.44±0.02	0.928±0.007	0.927±0.007	0.012±0.005	-0.036±0.005
12.8	2.1±0.3	0.8±0.3	-0.56±0.01	-1.43±0.02	0.930±0.007	0.930±0.007	0.013±0.005	-0.033±0.005
13.8	1.7±0.3	0.7±0.3	-0.54±0.01	-1.43±0.02	0.942±0.007	0.941±0.007	0.012±0.005	-0.028±0.005
16.4	1.4±0.3	0.7±0.3	-0.51±0.01	-1.43±0.02	0.959±0.007	0.959±0.007	0.012±0.005	-0.023±0.005
18.9	1.1±0.3	0.8±0.3	-0.48±0.01	-1.43±0.02	0.975±0.007	0.975±0.007	0.013±0.005	-0.019±0.005
21.4	1.0±0.3	0.8±0.3	-0.45±0.01	-1.43±0.02	0.989±0.007	0.988±0.007	0.013±0.005	-0.017±0.005
24.0	0.8±0.3	0.7±0.3	-0.41±0.01	-1.42±0.02	1.007±0.007	1.007±0.007	0.013±0.004	-0.014±0.006
26.5	0.7±0.3	0.8±0.2	-0.38±0.01	-1.42±0.02	1.021±0.007	1.020±0.007	0.014±0.004	-0.013±0.006
29.1	0.6±0.3	0.7±0.2	-0.36±0.01	-1.44±0.02	1.039±0.007	1.039±0.007	0.014±0.004	-0.011±0.006
31.6	0.6±0.3	0.7±0.2	-0.34±0.01	-1.44±0.02	1.049±0.007	1.049±0.007	0.013±0.004	-0.011±0.006
34.1	0.5±0.3	0.7±0.2	-0.30±0.01	-1.42±0.02	1.059±0.007	1.058±0.007	0.013±0.004	-0.010±0.006
36.7	0.5±0.3	0.7±0.2	-0.28±0.01	-1.43±0.02	1.070±0.007	1.070±0.007	0.012±0.004	-0.009±0.006
39.2	0.4±0.3	0.7±0.2	-0.26±0.01	-1.43±0.02	1.081±0.007	1.081±0.007	0.012±0.004	-0.008±0.006
44.3	0.4±0.3	0.6±0.2	-0.22±0.01	-1.42±0.02	1.097±0.007	1.097±0.007	0.012±0.004	-0.007±0.006
49.4	0.3±0.3	0.6±0.2	-0.17±0.01	-1.41±0.02	1.113±0.007	1.113±0.007	0.012±0.004	-0.005±0.006
54.5	0.2±0.3	0.6±0.2	-0.13±0.01	-1.42±0.02	1.135±0.007	1.135±0.007	0.011±0.004	-0.004±0.006
59.5	0.2±0.3	0.6±0.2	-0.10±0.01	-1.42±0.02	1.150±0.007	1.150±0.007	0.011±0.004	-0.004±0.006
64.6	0.2±0.3	0.6±0.2	-0.07±0.01	-1.42±0.02	1.164±0.007	1.164±0.007	0.012±0.004	-0.004±0.006
69.7	0.2±0.3	0.6±0.2	-0.04±0.01	-1.42±0.02	1.178±0.007	1.178±0.007	0.012±0.004	-0.004±0.006
74.8	0.2±0.3	0.6±0.2	-0.02±0.01	-1.42±0.02	1.183±0.007	1.183±0.007	0.013±0.004	-0.004±0.007
79.9	0.2±0.3	0.6±0.2	-0.01±0.01	-1.42±0.02	1.189±0.007	1.189±0.007	0.013±0.004	-0.004±0.007
84.9	0.3±0.3	0.5±0.2	0.00±0.01	-1.42±0.02	1.193±0.007	1.193±0.007	0.010±0.004	-0.005±0.007
90.0	0.3±0.3	0.6±0.2	0.01±0.01	-1.42±0.02	1.196±0.007	1.196±0.007	0.012±0.004	-0.007±0.007
100.2	0.4±0.3	0.4±0.2	0.01±0.01	-1.42±0.02	1.196±0.007	1.196±0.007	0.009±0.004	-0.008±0.007
110.3	0.4±0.3	0.5±0.2	0.01±0.01	-1.42±0.02	1.196±0.007	1.196±0.007	0.010±0.004	-0.008±0.007
120.5	0.4±0.3	0.4±0.2	0.01±0.01	-1.42±0.02	1.195±0.007	1.195±0.007	0.009±0.004	-0.009±0.007
130.7	0.4±0.3	0.4±0.2	0.01±0.01	-1.42±0.02	1.194±0.007	1.194±0.007	0.009±0.004	-0.009±0.007
140.8	0.4±0.3	0.5±0.2	0.01±0.01	-1.41±0.02	1.193±0.007	1.193±0.007	0.011±0.004	-0.008±0.007

Table B.109 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.6±0.3	3.3±0.4	-0.74±0.01	-1.44±0.02	0.838±0.007	0.835±0.007	0.048±0.005	-0.052±0.005
4.7	3.9±0.3	2.1±0.3	-0.69±0.01	-1.44±0.02	0.869±0.007	0.867±0.007	0.032±0.005	-0.059±0.005
5.7	3.9±0.3	1.5±0.3	-0.66±0.01	-1.44±0.02	0.881±0.007	0.879±0.007	0.023±0.005	-0.060±0.005
6.7	3.8±0.3	1.3±0.3	-0.64±0.01	-1.45±0.02	0.901±0.007	0.899±0.007	0.021±0.005	-0.060±0.005
7.7	3.5±0.3	1.1±0.3	-0.62±0.01	-1.45±0.02	0.910±0.007	0.908±0.006	0.017±0.005	-0.055±0.005
8.7	3.2±0.3	1.0±0.3	-0.61±0.01	-1.46±0.02	0.924±0.006	0.922±0.006	0.016±0.005	-0.052±0.005
9.8	2.8±0.3	1.0±0.3	-0.60±0.01	-1.45±0.02	0.925±0.006	0.924±0.006	0.016±0.005	-0.045±0.005
10.8	2.6±0.3	1.0±0.3	-0.58±0.01	-1.46±0.02	0.934±0.006	0.933±0.006	0.016±0.005	-0.042±0.005
11.8	2.2±0.3	0.9±0.3	-0.57±0.01	-1.45±0.02	0.942±0.006	0.941±0.006	0.015±0.005	-0.036±0.005
12.8	2.0±0.3	0.8±0.3	-0.55±0.01	-1.45±0.02	0.945±0.006	0.944±0.006	0.013±0.005	-0.033±0.005
13.8	1.8±0.3	0.8±0.3	-0.53±0.01	-1.45±0.02	0.961±0.006	0.961±0.006	0.013±0.005	-0.031±0.005
16.4	1.5±0.3	0.8±0.3	-0.50±0.01	-1.45±0.02	0.973±0.007	0.973±0.007	0.013±0.005	-0.026±0.005
18.9	1.2±0.3	0.8±0.3	-0.47±0.01	-1.46±0.02	0.995±0.007	0.995±0.007	0.013±0.004	-0.021±0.005
21.4	1.0±0.3	0.7±0.3	-0.43±0.01	-1.45±0.02	1.007±0.007	1.007±0.007	0.013±0.004	-0.017±0.006
24.0	0.9±0.3	0.7±0.2	-0.41±0.01	-1.45±0.02	1.020±0.007	1.020±0.007	0.013±0.004	-0.016±0.006
26.5	0.6±0.3	0.8±0.2	-0.38±0.01	-1.45±0.02	1.032±0.007	1.032±0.007	0.014±0.004	-0.012±0.006
29.1	0.6±0.3	0.7±0.2	-0.36±0.01	-1.46±0.02	1.048±0.007	1.048±0.007	0.012±0.004	-0.011±0.006
31.6	0.5±0.3	0.7±0.2	-0.33±0.01	-1.45±0.02	1.056±0.007	1.056±0.007	0.013±0.004	-0.009±0.006
34.1	0.5±0.3	0.7±0.2	-0.31±0.01	-1.45±0.02	1.069±0.007	1.069±0.007	0.013±0.004	-0.009±0.006
36.7	0.4±0.3	0.6±0.2	-0.27±0.01	-1.43±0.02	1.078±0.007	1.078±0.007	0.012±0.004	-0.007±0.006
39.2	0.4±0.3	0.7±0.2	-0.26±0.01	-1.45±0.02	1.088±0.007	1.088±0.007	0.012±0.004	-0.007±0.006
44.3	0.3±0.3	0.6±0.2	-0.22±0.01	-1.45±0.02	1.109±0.007	1.109±0.007	0.012±0.004	-0.006±0.006
49.4	0.2±0.3	0.6±0.2	-0.17±0.01	-1.44±0.02	1.126±0.007	1.126±0.007	0.012±0.004	-0.004±0.006
54.5	0.1±0.3	0.5±0.2	-0.13±0.01	-1.43±0.02	1.141±0.007	1.141±0.007	0.011±0.004	-0.003±0.006
59.5	0.1±0.3	0.5±0.2	-0.10±0.01	-1.44±0.02	1.159±0.007	1.159±0.007	0.011±0.004	-0.003±0.006
64.6	0.1±0.3	0.5±0.2	-0.07±0.01	-1.44±0.02	1.173±0.007	1.173±0.007	0.011±0.004	-0.002±0.006
69.7	0.1±0.3	0.5±0.2	-0.04±0.01	-1.44±0.02	1.183±0.007	1.183±0.007	0.011±0.004	-0.002±0.007
74.8	0.1±0.3	0.5±0.2	-0.02±0.01	-1.44±0.02	1.193±0.007	1.192±0.007	0.011±0.004	-0.003±0.007
79.9	0.1±0.3	0.5±0.2	-0.01±0.01	-1.45±0.02	1.199±0.007	1.199±0.007	0.011±0.004	-0.003±0.007
84.9	0.2±0.3	0.5±0.2	0.00±0.01	-1.44±0.02	1.202±0.007	1.202±0.007	0.011±0.004	-0.004±0.007
90.0	0.3±0.3	0.4±0.2	0.01±0.01	-1.44±0.02	1.204±0.007	1.204±0.007	0.009±0.004	-0.005±0.007
100.2	0.3±0.3	0.5±0.2	0.01±0.01	-1.44±0.02	1.205±0.007	1.205±0.007	0.010±0.004	-0.006±0.007
110.3	0.3±0.3	0.5±0.2	0.01±0.01	-1.44±0.02	1.205±0.007	1.205±0.007	0.011±0.004	-0.007±0.007
120.5	0.3±0.3	0.5±0.2	0.01±0.01	-1.44±0.02	1.204±0.007	1.204±0.007	0.010±0.004	-0.007±0.007
130.7	0.4±0.3	0.5±0.2	0.01±0.01	-1.44±0.02	1.204±0.007	1.203±0.007	0.009±0.004	-0.008±0.007
140.8	0.4±0.3	0.5±0.2	0.01±0.01	-1.44±0.02	1.203±0.007	1.203±0.007	0.011±0.004	-0.008±0.007

Table B.110 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-95 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.0±0.3	3.5±0.4	-0.73±0.01	-1.46±0.02	0.858±0.007	0.854±0.007	0.053±0.005	-0.060±0.005
4.7	4.3±0.3	2.0±0.3	-0.68±0.01	-1.46±0.02	0.885±0.007	0.882±0.007	0.031±0.005	-0.066±0.005
5.7	4.2±0.3	1.4±0.3	-0.65±0.01	-1.47±0.02	0.903±0.007	0.901±0.006	0.022±0.005	-0.066±0.005
6.7	4.1±0.3	1.3±0.3	-0.63±0.01	-1.47±0.02	0.915±0.006	0.913±0.006	0.021±0.005	-0.065±0.005
7.7	3.7±0.3	1.1±0.3	-0.62±0.01	-1.47±0.02	0.924±0.006	0.922±0.006	0.018±0.005	-0.060±0.005
8.7	3.3±0.3	1.0±0.3	-0.60±0.01	-1.47±0.02	0.935±0.006	0.934±0.006	0.017±0.005	-0.054±0.005
9.8	3.0±0.3	1.0±0.3	-0.58±0.01	-1.47±0.02	0.940±0.006	0.938±0.006	0.017±0.005	-0.049±0.005
10.8	2.7±0.3	1.0±0.3	-0.57±0.01	-1.47±0.02	0.948±0.006	0.947±0.006	0.016±0.005	-0.044±0.005
11.8	2.4±0.3	1.0±0.3	-0.56±0.01	-1.47±0.02	0.955±0.006	0.954±0.006	0.016±0.005	-0.039±0.005
12.8	2.2±0.3	0.9±0.3	-0.54±0.01	-1.46±0.02	0.960±0.006	0.960±0.006	0.015±0.005	-0.036±0.005
13.8	1.9±0.3	0.9±0.3	-0.52±0.01	-1.46±0.02	0.969±0.006	0.968±0.006	0.015±0.005	-0.032±0.005
16.4	1.6±0.3	0.9±0.3	-0.50±0.01	-1.47±0.02	0.987±0.007	0.987±0.007	0.016±0.005	-0.027±0.005
18.9	1.3±0.3	0.8±0.3	-0.47±0.01	-1.47±0.02	0.998±0.007	0.997±0.007	0.015±0.004	-0.022±0.006
21.4	1.0±0.3	0.8±0.2	-0.43±0.01	-1.46±0.02	1.017±0.007	1.017±0.007	0.014±0.004	-0.017±0.006
24.0	0.9±0.3	0.8±0.2	-0.40±0.01	-1.47±0.02	1.031±0.007	1.031±0.007	0.014±0.004	-0.015±0.006
26.5	0.7±0.3	0.8±0.2	-0.37±0.01	-1.45±0.02	1.037±0.007	1.037±0.007	0.014±0.004	-0.013±0.006
29.1	0.7±0.3	0.7±0.2	-0.35±0.01	-1.44±0.02	1.045±0.007	1.045±0.007	0.013±0.004	-0.013±0.006
31.6	0.6±0.3	0.7±0.2	-0.33±0.01	-1.46±0.02	1.062±0.007	1.062±0.007	0.012±0.004	-0.011±0.006
34.1	0.6±0.3	0.6±0.2	-0.30±0.01	-1.46±0.02	1.076±0.007	1.076±0.007	0.012±0.004	-0.011±0.006
36.7	0.4±0.3	0.6±0.2	-0.28±0.01	-1.46±0.02	1.086±0.007	1.086±0.007	0.012±0.004	-0.008±0.006
39.2	0.4±0.3	0.6±0.2	-0.25±0.01	-1.46±0.02	1.099±0.007	1.099±0.007	0.012±0.004	-0.007±0.006
44.3	0.3±0.3	0.6±0.2	-0.21±0.01	-1.45±0.02	1.116±0.007	1.116±0.007	0.011±0.004	-0.007±0.006
49.4	0.3±0.3	0.5±0.2	-0.18±0.01	-1.46±0.02	1.134±0.007	1.133±0.007	0.010±0.004	-0.006±0.006
54.5	0.2±0.3	0.5±0.2	-0.13±0.01	-1.45±0.02	1.148±0.007	1.148±0.007	0.009±0.004	-0.004±0.006
59.5	0.2±0.3	0.4±0.2	-0.11±0.01	-1.47±0.02	1.168±0.007	1.167±0.007	0.009±0.004	-0.003±0.006
64.6	0.2±0.3	0.4±0.2	-0.07±0.01	-1.46±0.02	1.178±0.007	1.178±0.007	0.009±0.004	-0.004±0.006
69.7	0.2±0.3	0.5±0.2	-0.04±0.01	-1.46±0.02	1.190±0.007	1.190±0.007	0.009±0.004	-0.004±0.007
74.8	0.2±0.3	0.4±0.2	-0.02±0.01	-1.44±0.02	1.194±0.007	1.194±0.007	0.009±0.004	-0.004±0.007
79.9	0.2±0.3	0.4±0.2	-0.01±0.01	-1.45±0.02	1.203±0.007	1.203±0.007	0.009±0.004	-0.005±0.007
84.9	0.2±0.3	0.5±0.2	0.00±0.01	-1.45±0.02	1.207±0.007	1.207±0.007	0.011±0.004	-0.005±0.007
90.0	0.3±0.3	0.4±0.2	0.01±0.01	-1.46±0.02	1.209±0.007	1.209±0.007	0.009±0.004	-0.006±0.007
100.2	0.4±0.3	0.4±0.2	0.01±0.01	-1.46±0.02	1.211±0.007	1.211±0.007	0.009±0.004	-0.008±0.007
110.3	0.4±0.3	0.4±0.2	0.01±0.01	-1.45±0.02	1.210±0.007	1.210±0.007	0.009±0.004	-0.008±0.007
120.5	0.4±0.3	0.5±0.2	0.01±0.01	-1.45±0.02	1.209±0.007	1.209±0.007	0.010±0.004	-0.008±0.007
130.7	0.5±0.3	0.4±0.2	0.01±0.01	-1.45±0.02	1.210±0.007	1.210±0.007	0.009±0.004	-0.010±0.007
140.8	0.5±0.3	0.4±0.2	0.01±0.01	-1.45±0.02	1.208±0.007	1.208±0.007	0.009±0.004	-0.011±0.007

Table B.111 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.2±0.3	3.8±0.3	-0.73±0.01	-1.48±0.02	0.865±0.007	0.861±0.007	0.057±0.005	-0.064±0.005
4.7	4.6±0.3	2.2±0.3	-0.68±0.01	-1.49±0.02	0.900±0.006	0.896±0.006	0.035±0.005	-0.071±0.005
5.7	4.5±0.3	1.6±0.3	-0.65±0.01	-1.50±0.02	0.921±0.006	0.918±0.006	0.026±0.005	-0.072±0.005
6.7	4.2±0.3	1.3±0.3	-0.63±0.01	-1.50±0.02	0.929±0.006	0.927±0.006	0.021±0.005	-0.069±0.005
7.7	3.9±0.3	1.2±0.3	-0.62±0.01	-1.50±0.02	0.939±0.006	0.937±0.006	0.020±0.005	-0.063±0.005
8.7	3.5±0.3	1.1±0.3	-0.60±0.01	-1.50±0.02	0.949±0.006	0.947±0.006	0.017±0.005	-0.058±0.005
9.8	3.1±0.3	1.0±0.3	-0.58±0.01	-1.49±0.02	0.955±0.006	0.953±0.006	0.017±0.005	-0.051±0.005
10.8	2.7±0.3	1.0±0.3	-0.57±0.01	-1.50±0.02	0.965±0.006	0.964±0.006	0.017±0.005	-0.046±0.005
11.8	2.4±0.3	1.0±0.3	-0.55±0.01	-1.50±0.02	0.972±0.006	0.971±0.006	0.016±0.005	-0.041±0.005
12.8	2.1±0.3	1.0±0.3	-0.54±0.01	-1.50±0.02	0.977±0.006	0.976±0.006	0.016±0.005	-0.036±0.005
13.8	1.9±0.3	0.9±0.3	-0.53±0.01	-1.50±0.02	0.988±0.006	0.988±0.006	0.015±0.004	-0.033±0.005
16.4	1.5±0.3	0.8±0.3	-0.49±0.01	-1.49±0.02	1.000±0.007	1.000±0.007	0.014±0.004	-0.025±0.006
18.9	1.2±0.3	0.8±0.2	-0.45±0.01	-1.47±0.02	1.013±0.007	1.013±0.007	0.014±0.004	-0.021±0.006
21.4	1.0±0.3	0.8±0.2	-0.43±0.01	-1.49±0.02	1.031±0.007	1.031±0.007	0.014±0.004	-0.018±0.006
24.0	0.8±0.3	0.7±0.2	-0.41±0.01	-1.49±0.02	1.041±0.007	1.040±0.007	0.012±0.004	-0.015±0.006
26.5	0.7±0.3	0.7±0.2	-0.37±0.01	-1.48±0.02	1.053±0.007	1.053±0.007	0.013±0.004	-0.014±0.006
29.1	0.6±0.3	0.7±0.2	-0.35±0.01	-1.48±0.02	1.064±0.007	1.064±0.007	0.012±0.004	-0.012±0.006
31.6	0.5±0.3	0.6±0.2	-0.33±0.01	-1.49±0.02	1.078±0.007	1.078±0.007	0.011±0.004	-0.010±0.006
34.1	0.4±0.3	0.6±0.2	-0.30±0.01	-1.48±0.02	1.089±0.007	1.089±0.007	0.011±0.004	-0.009±0.006
36.7	0.4±0.3	0.6±0.2	-0.28±0.01	-1.48±0.02	1.097±0.007	1.097±0.007	0.011±0.004	-0.008±0.006
39.2	0.3±0.3	0.6±0.2	-0.25±0.01	-1.49±0.02	1.113±0.007	1.113±0.007	0.011±0.004	-0.007±0.006
44.3	0.3±0.3	0.4±0.2	-0.21±0.01	-1.49±0.02	1.129±0.007	1.129±0.007	0.009±0.004	-0.005±0.006
49.4	0.2±0.3	0.4±0.2	-0.17±0.01	-1.48±0.02	1.147±0.007	1.147±0.007	0.009±0.004	-0.004±0.006
54.5	0.2±0.3	0.4±0.2	-0.13±0.01	-1.49±0.02	1.166±0.007	1.166±0.007	0.009±0.004	-0.003±0.006
59.5	0.2±0.3	0.4±0.2	-0.09±0.01	-1.48±0.02	1.176±0.007	1.176±0.007	0.009±0.004	-0.003±0.006
64.6	0.1±0.3	0.4±0.2	-0.07±0.01	-1.49±0.02	1.190±0.007	1.190±0.007	0.008±0.004	-0.002±0.007
69.7	0.1±0.3	0.4±0.2	-0.04±0.01	-1.49±0.02	1.202±0.007	1.202±0.007	0.009±0.004	-0.003±0.007
74.8	0.2±0.3	0.4±0.2	-0.02±0.01	-1.49±0.02	1.212±0.007	1.212±0.007	0.009±0.004	-0.003±0.007
79.9	0.2±0.3	0.4±0.2	0.00±0.01	-1.49±0.02	1.218±0.007	1.218±0.007	0.008±0.004	-0.005±0.007
84.9	0.3±0.3	0.4±0.2	0.00±0.01	-1.49±0.02	1.221±0.007	1.221±0.007	0.009±0.004	-0.006±0.007
90.0	0.3±0.3	0.4±0.2	0.01±0.01	-1.49±0.02	1.223±0.007	1.223±0.007	0.008±0.004	-0.006±0.007
100.2	0.4±0.3	0.4±0.2	0.01±0.01	-1.49±0.02	1.224±0.007	1.224±0.007	0.008±0.004	-0.008±0.007
110.3	0.3±0.3	0.4±0.2	0.01±0.01	-1.49±0.02	1.223±0.007	1.223±0.007	0.008±0.004	-0.007±0.007
120.5	0.4±0.3	0.4±0.2	0.01±0.01	-1.49±0.02	1.224±0.007	1.224±0.007	0.009±0.004	-0.008±0.007
130.7	0.4±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.223±0.007	1.223±0.007	0.009±0.004	-0.010±0.007
140.8	0.5±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.221±0.007	0.009±0.004	-0.011±0.007

Table B.112 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-83 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.5±0.3	4.1±0.3	-0.72±0.01	-1.48±0.02	0.872±0.007	0.867±0.007	0.062±0.005	-0.068±0.005
4.7	4.7±0.3	2.3±0.3	-0.67±0.01	-1.48±0.02	0.902±0.006	0.898±0.006	0.036±0.005	-0.074±0.005
5.7	4.7±0.3	1.6±0.3	-0.64±0.01	-1.49±0.02	0.922±0.006	0.918±0.006	0.026±0.005	-0.076±0.005
6.7	4.4±0.3	1.4±0.3	-0.62±0.01	-1.49±0.02	0.934±0.006	0.931±0.006	0.024±0.005	-0.072±0.005
7.7	4.1±0.3	1.3±0.3	-0.60±0.01	-1.49±0.02	0.943±0.006	0.940±0.006	0.022±0.005	-0.067±0.005
8.7	3.5±0.3	1.2±0.3	-0.58±0.01	-1.49±0.02	0.954±0.006	0.952±0.006	0.020±0.005	-0.059±0.005
9.8	3.2±0.3	1.2±0.3	-0.57±0.01	-1.49±0.02	0.960±0.006	0.958±0.006	0.020±0.005	-0.053±0.005
10.8	2.7±0.3	1.0±0.3	-0.55±0.01	-1.49±0.02	0.969±0.006	0.968±0.006	0.018±0.005	-0.046±0.005
11.8	2.4±0.3	1.1±0.3	-0.54±0.01	-1.49±0.02	0.975±0.006	0.974±0.006	0.018±0.005	-0.041±0.005
12.8	2.2±0.3	1.0±0.3	-0.52±0.01	-1.49±0.02	0.983±0.007	0.982±0.006	0.016±0.005	-0.037±0.005
13.8	1.9±0.3	0.9±0.3	-0.50±0.01	-1.48±0.02	0.990±0.007	0.989±0.007	0.016±0.004	-0.033±0.005
16.4	1.5±0.3	0.9±0.3	-0.47±0.01	-1.48±0.02	1.007±0.007	1.007±0.007	0.016±0.004	-0.026±0.006
18.9	1.2±0.3	0.8±0.2	-0.43±0.01	-1.48±0.02	1.024±0.007	1.023±0.007	0.015±0.004	-0.021±0.006
21.4	1.0±0.3	0.7±0.2	-0.41±0.01	-1.48±0.02	1.035±0.007	1.035±0.007	0.013±0.004	-0.017±0.006
24.0	0.8±0.3	0.7±0.2	-0.38±0.01	-1.47±0.02	1.047±0.007	1.047±0.007	0.012±0.004	-0.015±0.006
26.5	0.7±0.3	0.6±0.2	-0.36±0.01	-1.47±0.02	1.058±0.007	1.058±0.007	0.011±0.004	-0.014±0.006
29.1	0.6±0.3	0.5±0.2	-0.34±0.01	-1.49±0.02	1.072±0.007	1.071±0.007	0.010±0.004	-0.012±0.006
31.6	0.6±0.3	0.5±0.2	-0.31±0.01	-1.49±0.02	1.087±0.007	1.087±0.007	0.009±0.004	-0.011±0.006
34.1	0.5±0.3	0.5±0.2	-0.29±0.01	-1.48±0.02	1.092±0.007	1.092±0.007	0.010±0.004	-0.009±0.006
36.7	0.4±0.3	0.4±0.2	-0.25±0.01	-1.48±0.02	1.106±0.007	1.106±0.007	0.009±0.004	-0.009±0.006
39.2	0.3±0.3	0.4±0.2	-0.25±0.01	-1.49±0.02	1.116±0.007	1.116±0.007	0.008±0.004	-0.007±0.006
44.3	0.3±0.3	0.4±0.2	-0.21±0.01	-1.49±0.02	1.135±0.007	1.135±0.007	0.008±0.004	-0.006±0.006
49.4	0.2±0.3	0.4±0.2	-0.16±0.01	-1.48±0.02	1.150±0.007	1.150±0.007	0.008±0.004	-0.005±0.006
54.5	0.2±0.3	0.4±0.2	-0.12±0.01	-1.48±0.02	1.165±0.007	1.165±0.007	0.008±0.004	-0.004±0.006
59.5	0.2±0.3	0.4±0.2	-0.09±0.01	-1.48±0.02	1.180±0.007	1.180±0.007	0.008±0.004	-0.004±0.007
64.6	0.2±0.3	0.4±0.2	-0.06±0.01	-1.48±0.02	1.194±0.007	1.194±0.007	0.008±0.004	-0.003±0.007
69.7	0.2±0.3	0.4±0.2	-0.04±0.01	-1.49±0.02	1.205±0.007	1.205±0.007	0.008±0.004	-0.004±0.007
74.8	0.2±0.3	0.4±0.2	-0.01±0.01	-1.48±0.02	1.209±0.007	1.209±0.007	0.008±0.004	-0.004±0.007
79.9	0.3±0.3	0.4±0.2	-0.01±0.01	-1.49±0.02	1.217±0.007	1.217±0.007	0.008±0.004	-0.006±0.007
84.9	0.3±0.3	0.4±0.2	0.00±0.01	-1.48±0.02	1.219±0.007	1.219±0.007	0.008±0.004	-0.006±0.007
90.0	0.3±0.3	0.3±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.221±0.007	0.007±0.004	-0.006±0.007
100.2	0.4±0.3	0.3±0.2	0.01±0.01	-1.48±0.02	1.222±0.007	1.222±0.007	0.007±0.004	-0.008±0.007
110.3	0.4±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.223±0.007	1.222±0.007	0.008±0.004	-0.010±0.007
120.5	0.4±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.222±0.007	1.222±0.007	0.008±0.004	-0.010±0.007
130.7	0.5±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.221±0.007	0.008±0.004	-0.011±0.007
140.8	0.6±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.220±0.007	1.220±0.007	0.009±0.004	-0.012±0.007

Table B.113 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.1±0.3	4.2±0.3	-0.71±0.01	-1.51±0.02	0.896±0.006	0.890±0.006	0.065±0.005	-0.080±0.005
4.7	5.2±0.3	2.5±0.3	-0.67±0.01	-1.52±0.02	0.924±0.006	0.920±0.006	0.040±0.005	-0.084±0.005
5.7	5.0±0.3	2.0±0.3	-0.64±0.01	-1.52±0.02	0.941±0.006	0.937±0.006	0.032±0.005	-0.082±0.005
6.7	4.5±0.3	1.7±0.3	-0.62±0.01	-1.53±0.02	0.954±0.006	0.951±0.006	0.029±0.005	-0.075±0.005
7.7	4.0±0.3	1.5±0.3	-0.60±0.01	-1.52±0.02	0.958±0.006	0.955±0.006	0.025±0.005	-0.066±0.005
8.7	3.4±0.3	1.5±0.3	-0.59±0.01	-1.53±0.02	0.966±0.006	0.964±0.006	0.025±0.005	-0.057±0.005
9.8	2.9±0.3	1.3±0.3	-0.57±0.01	-1.52±0.02	0.975±0.006	0.974±0.006	0.022±0.004	-0.049±0.005
10.8	2.4±0.3	1.2±0.3	-0.55±0.01	-1.53±0.02	0.985±0.006	0.984±0.006	0.021±0.004	-0.041±0.005
11.8	2.0±0.3	1.2±0.3	-0.54±0.01	-1.52±0.02	0.990±0.006	0.989±0.006	0.020±0.004	-0.035±0.005
12.8	1.7±0.3	1.1±0.3	-0.52±0.01	-1.52±0.02	0.997±0.006	0.997±0.006	0.019±0.004	-0.030±0.006
13.8	1.5±0.3	0.9±0.2	-0.50±0.01	-1.52±0.02	1.009±0.006	1.008±0.006	0.017±0.004	-0.026±0.006
16.4	1.1±0.3	0.9±0.2	-0.47±0.01	-1.52±0.02	1.026±0.006	1.026±0.006	0.016±0.004	-0.019±0.006
18.9	0.9±0.3	0.8±0.2	-0.44±0.01	-1.52±0.02	1.042±0.006	1.041±0.006	0.014±0.004	-0.016±0.006
21.4	0.7±0.3	0.7±0.2	-0.40±0.01	-1.50±0.02	1.051±0.007	1.051±0.007	0.013±0.004	-0.013±0.006
24.0	0.6±0.3	0.6±0.2	-0.37±0.01	-1.51±0.02	1.067±0.007	1.067±0.007	0.011±0.004	-0.011±0.006
26.5	0.5±0.3	0.5±0.2	-0.34±0.01	-1.50±0.02	1.077±0.007	1.077±0.007	0.010±0.004	-0.009±0.006
29.1	0.4±0.3	0.4±0.2	-0.32±0.01	-1.50±0.02	1.087±0.007	1.087±0.007	0.008±0.004	-0.007±0.006
31.6	0.3±0.3	0.4±0.2	-0.30±0.01	-1.51±0.02	1.100±0.007	1.100±0.007	0.008±0.004	-0.006±0.006
34.1	0.2±0.3	0.4±0.2	-0.27±0.01	-1.51±0.02	1.111±0.007	1.111±0.007	0.008±0.004	-0.005±0.006
36.7	0.2±0.3	0.4±0.2	-0.25±0.01	-1.51±0.02	1.121±0.007	1.121±0.007	0.008±0.004	-0.004±0.006
39.2	0.1±0.3	0.4±0.2	-0.23±0.01	-1.51±0.02	1.132±0.007	1.132±0.007	0.008±0.004	-0.003±0.006
44.3	0.1±0.3	0.4±0.2	-0.18±0.01	-1.50±0.02	1.148±0.007	1.148±0.007	0.008±0.004	-0.001±0.006
49.4	0.0±0.3	0.4±0.2	-0.15±0.01	-1.52±0.02	1.170±0.007	1.170±0.007	0.007±0.004	0.000±0.006
54.5	0.0±0.3	0.3±0.2	-0.11±0.01	-1.51±0.02	1.181±0.007	1.181±0.007	0.006±0.004	0.000±0.007
59.5	0.0±0.3	0.3±0.2	-0.08±0.01	-1.52±0.02	1.199±0.007	1.199±0.007	0.006±0.004	0.000±0.007
64.6	0.0±0.3	0.3±0.2	-0.05±0.01	-1.50±0.02	1.206±0.007	1.206±0.007	0.006±0.004	0.000±0.007
69.7	0.0±0.3	0.3±0.2	-0.03±0.01	-1.51±0.02	1.219±0.007	1.219±0.007	0.006±0.004	0.000±0.007
74.8	0.1±0.3	0.3±0.2	-0.01±0.01	-1.52±0.02	1.226±0.007	1.226±0.007	0.006±0.004	-0.001±0.007
79.9	0.1±0.3	0.3±0.2	0.00±0.01	-1.52±0.02	1.231±0.007	1.231±0.007	0.006±0.004	-0.002±0.007
84.9	0.1±0.3	0.3±0.2	0.00±0.01	-1.52±0.02	1.234±0.007	1.234±0.007	0.006±0.004	-0.003±0.007
90.0	0.2±0.3	0.2±0.2	0.01±0.01	-1.52±0.02	1.236±0.007	1.236±0.007	0.005±0.004	-0.004±0.007
100.2	0.3±0.3	0.3±0.2	0.01±0.01	-1.52±0.02	1.237±0.007	1.237±0.007	0.006±0.004	-0.006±0.007
110.3	0.3±0.3	0.3±0.2	0.01±0.01	-1.52±0.02	1.237±0.007	1.237±0.007	0.006±0.004	-0.007±0.007
120.5	0.3±0.3	0.4±0.2	0.01±0.01	-1.52±0.02	1.236±0.007	1.236±0.007	0.009±0.004	-0.007±0.007
130.7	0.4±0.3	0.4±0.2	0.01±0.01	-1.52±0.02	1.235±0.007	1.235±0.007	0.008±0.004	-0.008±0.007
140.8	0.5±0.3	0.4±0.2	0.01±0.01	-1.51±0.02	1.234±0.007	1.234±0.007	0.009±0.004	-0.010±0.007

Table B.114 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.8±0.3	4.5±0.3	-0.67±0.01	-1.53±0.02	0.926±0.006	0.918±0.006	0.072±0.005	-0.093±0.005
4.7	5.7±0.3	2.6±0.3	-0.64±0.01	-1.54±0.02	0.951±0.006	0.945±0.006	0.044±0.005	-0.094±0.005
5.7	5.2±0.3	2.1±0.3	-0.62±0.01	-1.55±0.02	0.960±0.006	0.956±0.006	0.034±0.005	-0.087±0.005
6.7	4.6±0.3	1.8±0.3	-0.61±0.01	-1.55±0.02	0.966±0.006	0.963±0.006	0.030±0.005	-0.077±0.005
7.7	3.8±0.3	1.5±0.3	-0.60±0.01	-1.55±0.02	0.973±0.006	0.970±0.006	0.026±0.005	-0.064±0.005
8.7	3.1±0.3	1.2±0.3	-0.59±0.01	-1.55±0.02	0.984±0.006	0.982±0.006	0.021±0.004	-0.053±0.005
9.8	2.5±0.3	1.1±0.3	-0.56±0.01	-1.54±0.02	0.988±0.006	0.987±0.006	0.020±0.004	-0.043±0.005
10.8	2.0±0.3	1.0±0.3	-0.55±0.01	-1.54±0.02	0.996±0.006	0.995±0.006	0.017±0.004	-0.035±0.005
11.8	1.7±0.3	0.9±0.2	-0.53±0.01	-1.54±0.02	1.008±0.006	1.007±0.006	0.016±0.004	-0.030±0.006
12.8	1.4±0.3	0.8±0.2	-0.51±0.01	-1.54±0.02	1.015±0.006	1.015±0.006	0.015±0.004	-0.025±0.006
13.8	1.2±0.3	0.8±0.2	-0.49±0.01	-1.53±0.02	1.021±0.006	1.021±0.006	0.013±0.004	-0.022±0.006
16.4	0.8±0.3	0.6±0.2	-0.45±0.01	-1.54±0.02	1.041±0.007	1.041±0.007	0.012±0.004	-0.015±0.006
18.9	0.7±0.3	0.5±0.2	-0.41±0.01	-1.53±0.02	1.057±0.007	1.057±0.007	0.009±0.004	-0.013±0.006
21.4	0.6±0.3	0.5±0.2	-0.39±0.01	-1.53±0.02	1.068±0.007	1.068±0.007	0.009±0.004	-0.010±0.006
24.0	0.5±0.3	0.4±0.2	-0.36±0.01	-1.52±0.02	1.078±0.007	1.078±0.007	0.008±0.004	-0.009±0.006
26.5	0.3±0.3	0.4±0.2	-0.33±0.01	-1.52±0.02	1.089±0.007	1.089±0.007	0.008±0.004	-0.006±0.006
29.1	0.3±0.3	0.4±0.2	-0.31±0.01	-1.53±0.02	1.105±0.007	1.105±0.007	0.008±0.004	-0.005±0.006
31.6	0.2±0.3	0.4±0.2	-0.29±0.01	-1.53±0.02	1.114±0.007	1.114±0.007	0.007±0.004	-0.004±0.006
34.1	0.2±0.3	0.3±0.2	-0.26±0.01	-1.52±0.02	1.124±0.007	1.124±0.007	0.007±0.004	-0.003±0.006
36.7	0.1±0.3	0.3±0.2	-0.24±0.01	-1.52±0.02	1.133±0.007	1.133±0.007	0.005±0.004	-0.002±0.006
39.2	0.0±0.3	0.3±0.2	-0.21±0.01	-1.53±0.02	1.145±0.007	1.145±0.007	0.005±0.004	-0.001±0.006
44.3	0.0±0.3	0.2±0.2	-0.18±0.01	-1.53±0.02	1.162±0.007	1.162±0.007	0.004±0.004	0.000±0.006
49.4	-0.1±0.3	0.2±0.2	-0.14±0.01	-1.53±0.02	1.178±0.007	1.178±0.007	0.004±0.004	0.001±0.007
54.5	-0.1±0.3	0.2±0.2	-0.10±0.01	-1.53±0.02	1.195±0.007	1.195±0.007	0.004±0.004	0.002±0.007
59.5	-0.1±0.3	0.2±0.2	-0.07±0.01	-1.54±0.02	1.210±0.007	1.210±0.007	0.005±0.004	0.002±0.007
64.6	-0.1±0.3	0.2±0.2	-0.04±0.01	-1.53±0.02	1.220±0.007	1.220±0.007	0.004±0.004	0.001±0.007
69.7	-0.1±0.3	0.2±0.2	-0.03±0.01	-1.53±0.02	1.228±0.007	1.228±0.007	0.005±0.004	0.001±0.007
74.8	0.0±0.3	0.2±0.2	-0.01±0.01	-1.54±0.02	1.235±0.007	1.235±0.007	0.004±0.004	0.000±0.007
79.9	0.0±0.3	0.2±0.2	0.00±0.01	-1.53±0.02	1.239±0.007	1.239±0.007	0.005±0.004	0.000±0.007
84.9	0.0±0.3	0.2±0.2	0.00±0.01	-1.54±0.02	1.242±0.007	1.242±0.007	0.005±0.004	0.000±0.007
90.0	0.1±0.3	0.2±0.2	0.01±0.01	-1.54±0.02	1.245±0.007	1.245±0.007	0.005±0.004	-0.003±0.007
100.2	0.2±0.3	0.2±0.2	0.01±0.01	-1.54±0.02	1.246±0.007	1.246±0.007	0.005±0.003	-0.005±0.007
110.3	0.3±0.3	0.2±0.2	0.01±0.01	-1.54±0.02	1.246±0.007	1.246±0.007	0.005±0.003	-0.006±0.007
120.5	0.3±0.3	0.4±0.2	0.01±0.01	-1.54±0.02	1.245±0.007	1.245±0.007	0.008±0.004	-0.006±0.007
130.7	0.4±0.3	0.4±0.2	0.01±0.01	-1.54±0.02	1.245±0.007	1.245±0.007	0.008±0.004	-0.008±0.007
140.8	0.4±0.3	0.4±0.2	0.01±0.01	-1.53±0.02	1.243±0.007	1.243±0.007	0.009±0.004	-0.009±0.007

Table B.115 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.9±0.3	4.8±0.3	-0.63±0.01	-1.55±0.02	0.962±0.006	0.954±0.006	0.079±0.005	-0.098±0.005
4.7	5.6±0.3	2.4±0.3	-0.60±0.01	-1.55±0.02	0.975±0.006	0.969±0.006	0.041±0.005	-0.095±0.005
5.7	4.9±0.3	1.7±0.3	-0.60±0.01	-1.57±0.02	0.984±0.006	0.980±0.006	0.029±0.004	-0.084±0.005
6.7	4.2±0.3	1.4±0.3	-0.59±0.01	-1.56±0.02	0.986±0.006	0.983±0.006	0.024±0.004	-0.072±0.005
7.7	3.4±0.3	1.1±0.3	-0.58±0.01	-1.56±0.02	0.991±0.006	0.989±0.006	0.020±0.004	-0.059±0.005
8.7	2.8±0.3	0.9±0.3	-0.56±0.01	-1.56±0.02	0.996±0.006	0.995±0.006	0.016±0.004	-0.049±0.005
9.8	2.3±0.3	0.7±0.3	-0.54±0.01	-1.55±0.02	1.002±0.006	1.001±0.006	0.013±0.004	-0.039±0.006
10.8	1.9±0.3	0.7±0.2	-0.53±0.01	-1.55±0.02	1.012±0.007	1.011±0.007	0.011±0.004	-0.033±0.006
11.8	1.5±0.3	0.5±0.2	-0.50±0.01	-1.54±0.02	1.016±0.007	1.016±0.007	0.009±0.004	-0.027±0.006
12.8	1.3±0.3	0.5±0.2	-0.49±0.01	-1.54±0.02	1.027±0.007	1.027±0.007	0.008±0.004	-0.022±0.006
13.8	1.1±0.3	0.4±0.2	-0.48±0.01	-1.55±0.02	1.036±0.007	1.036±0.007	0.008±0.004	-0.020±0.006
16.4	0.8±0.3	0.4±0.2	-0.43±0.01	-1.53±0.02	1.049±0.007	1.049±0.007	0.007±0.004	-0.015±0.006
18.9	0.6±0.3	0.4±0.2	-0.40±0.01	-1.54±0.02	1.065±0.007	1.065±0.007	0.008±0.004	-0.011±0.006
21.4	0.5±0.3	0.4±0.2	-0.37±0.01	-1.53±0.02	1.077±0.007	1.077±0.007	0.007±0.004	-0.009±0.006
24.0	0.4±0.3	0.3±0.2	-0.35±0.01	-1.54±0.02	1.089±0.007	1.089±0.007	0.006±0.004	-0.007±0.006
26.5	0.3±0.3	0.3±0.2	-0.32±0.01	-1.53±0.02	1.099±0.007	1.099±0.007	0.006±0.004	-0.005±0.006
29.1	0.2±0.3	0.2±0.2	-0.30±0.01	-1.53±0.02	1.108±0.007	1.108±0.007	0.005±0.004	-0.004±0.006
31.6	0.1±0.3	0.2±0.2	-0.28±0.01	-1.53±0.02	1.120±0.007	1.120±0.007	0.004±0.004	-0.003±0.006
34.1	0.1±0.3	0.2±0.2	-0.25±0.01	-1.53±0.02	1.130±0.007	1.130±0.007	0.004±0.004	-0.001±0.006
36.7	0.0±0.3	0.2±0.2	-0.23±0.01	-1.53±0.02	1.139±0.007	1.139±0.007	0.003±0.004	0.000±0.006
39.2	-0.1±0.3	0.2±0.2	-0.21±0.01	-1.53±0.02	1.147±0.007	1.147±0.007	0.003±0.004	0.002±0.006
44.3	-0.1±0.3	0.1±0.2	-0.18±0.01	-1.53±0.02	1.165±0.007	1.165±0.007	0.002±0.004	0.002±0.006
49.4	-0.2±0.3	0.1±0.2	-0.14±0.01	-1.54±0.02	1.183±0.007	1.183±0.007	0.002±0.004	0.003±0.007
54.5	-0.2±0.3	0.1±0.2	-0.11±0.01	-1.54±0.02	1.197±0.007	1.197±0.007	0.001±0.004	0.005±0.007
59.5	-0.2±0.3	0.1±0.2	-0.07±0.01	-1.53±0.02	1.211±0.007	1.211±0.007	0.001±0.004	0.005±0.007
64.6	-0.2±0.3	0.1±0.2	-0.05±0.01	-1.55±0.02	1.223±0.007	1.223±0.007	0.002±0.004	0.004±0.007
69.7	-0.2±0.3	0.1±0.2	-0.03±0.01	-1.54±0.02	1.231±0.007	1.231±0.007	0.003±0.004	0.004±0.007
74.8	-0.2±0.3	0.1±0.2	-0.02±0.01	-1.55±0.02	1.238±0.007	1.238±0.007	0.002±0.004	0.003±0.007
79.9	-0.1±0.3	0.1±0.2	0.00±0.01	-1.55±0.02	1.244±0.007	1.244±0.007	0.002±0.004	0.002±0.007
84.9	-0.1±0.3	0.1±0.2	0.00±0.01	-1.55±0.02	1.247±0.007	1.247±0.007	0.001±0.004	0.001±0.007
90.0	-0.1±0.3	0.1±0.2	0.01±0.01	-1.55±0.02	1.249±0.007	1.249±0.007	0.002±0.004	0.001±0.007
100.2	0.1±0.3	0.2±0.2	0.01±0.01	-1.55±0.02	1.250±0.007	1.250±0.007	0.005±0.004	-0.001±0.007
110.3	0.2±0.3	0.2±0.2	0.01±0.01	-1.55±0.02	1.251±0.007	1.251±0.007	0.005±0.004	-0.004±0.007
120.5	0.2±0.3	0.3±0.2	0.01±0.01	-1.55±0.02	1.250±0.007	1.250±0.007	0.006±0.004	-0.004±0.007
130.7	0.3±0.3	0.4±0.2	0.01±0.01	-1.55±0.02	1.250±0.007	1.250±0.007	0.008±0.004	-0.006±0.007
140.8	0.3±0.3	0.4±0.2	0.01±0.01	-1.55±0.02	1.248±0.007	1.248±0.007	0.008±0.004	-0.008±0.007

Table B.116 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.5±0.3	3.4±0.2	-0.55±0.01	-1.59±0.02	1.022±0.006	1.015±0.006	0.060±0.004	-0.098±0.006
4.7	5.0±0.3	2.1±0.2	-0.54±0.01	-1.59±0.02	1.025±0.006	1.020±0.006	0.037±0.004	-0.088±0.006
5.7	4.2±0.3	1.4±0.2	-0.54±0.01	-1.60±0.02	1.030±0.006	1.027±0.006	0.024±0.004	-0.075±0.006
6.7	3.5±0.3	1.0±0.2	-0.53±0.01	-1.60±0.02	1.033±0.006	1.031±0.006	0.018±0.004	-0.063±0.006
7.7	2.9±0.3	0.7±0.2	-0.51±0.01	-1.58±0.02	1.035±0.006	1.034±0.006	0.012±0.004	-0.052±0.006
8.7	2.4±0.3	0.5±0.2	-0.50±0.01	-1.57±0.02	1.038±0.006	1.037±0.006	0.009±0.004	-0.044±0.006
9.8	2.0±0.3	0.4±0.2	-0.49±0.01	-1.57±0.02	1.042±0.006	1.042±0.006	0.007±0.004	-0.036±0.006
10.8	1.7±0.3	0.4±0.2	-0.47±0.01	-1.58±0.02	1.051±0.006	1.051±0.006	0.007±0.004	-0.031±0.006
11.8	1.5±0.3	0.2±0.2	-0.45±0.01	-1.57±0.02	1.056±0.006	1.056±0.006	0.004±0.004	-0.027±0.006
12.8	1.2±0.3	0.2±0.2	-0.44±0.01	-1.57±0.02	1.062±0.006	1.062±0.006	0.003±0.004	-0.022±0.006
13.8	1.1±0.3	0.2±0.2	-0.44±0.01	-1.57±0.02	1.067±0.007	1.066±0.007	0.003±0.004	-0.020±0.006
16.4	0.8±0.3	0.2±0.2	-0.40±0.01	-1.57±0.02	1.080±0.007	1.080±0.007	0.003±0.004	-0.016±0.006
18.9	0.6±0.3	0.1±0.2	-0.36±0.01	-1.56±0.02	1.093±0.007	1.092±0.007	0.002±0.004	-0.012±0.006
21.4	0.4±0.3	0.0±0.2	-0.35±0.01	-1.56±0.02	1.102±0.007	1.102±0.007	0.000±0.004	-0.008±0.006
24.0	0.3±0.3	0.0±0.2	-0.32±0.01	-1.55±0.02	1.113±0.007	1.113±0.007	0.000±0.004	-0.007±0.006
26.5	0.3±0.3	0.0±0.2	-0.30±0.01	-1.56±0.02	1.124±0.007	1.124±0.007	0.000±0.004	-0.005±0.006
29.1	0.2±0.3	-0.1±0.2	-0.28±0.01	-1.56±0.02	1.135±0.007	1.135±0.007	-0.001±0.004	-0.004±0.006
31.6	0.1±0.3	-0.1±0.2	-0.25±0.01	-1.56±0.02	1.142±0.007	1.142±0.007	-0.002±0.004	-0.002±0.006
34.1	0.0±0.3	-0.1±0.2	-0.23±0.01	-1.57±0.02	1.154±0.007	1.154±0.007	-0.003±0.004	0.000±0.006
36.7	-0.1±0.3	-0.1±0.2	-0.21±0.01	-1.55±0.02	1.159±0.007	1.159±0.007	-0.003±0.004	0.001±0.006
39.2	0.0±0.3	-0.2±0.2	-0.19±0.01	-1.57±0.02	1.173±0.007	1.173±0.007	-0.003±0.004	0.000±0.006
44.3	-0.1±0.3	-0.1±0.2	-0.16±0.01	-1.58±0.02	1.190±0.007	1.190±0.007	-0.003±0.004	0.003±0.007
49.4	-0.2±0.3	-0.1±0.2	-0.12±0.01	-1.57±0.02	1.203±0.007	1.203±0.007	-0.003±0.004	0.003±0.007
54.5	-0.2±0.3	-0.1±0.2	-0.09±0.01	-1.57±0.02	1.218±0.007	1.218±0.007	-0.002±0.004	0.004±0.007
59.5	-0.2±0.3	-0.1±0.2	-0.05±0.01	-1.57±0.02	1.232±0.007	1.232±0.007	-0.002±0.004	0.003±0.007
64.6	-0.1±0.3	-0.1±0.2	-0.03±0.01	-1.56±0.02	1.238±0.007	1.238±0.007	-0.002±0.003	0.003±0.007
69.7	-0.1±0.3	-0.1±0.2	-0.02±0.01	-1.57±0.02	1.248±0.007	1.248±0.007	-0.002±0.003	0.002±0.007
74.8	-0.1±0.3	-0.1±0.2	0.00±0.01	-1.58±0.02	1.255±0.007	1.255±0.007	-0.002±0.003	0.001±0.007
79.9	0.0±0.3	-0.1±0.2	0.00±0.01	-1.58±0.02	1.258±0.007	1.258±0.007	-0.002±0.003	0.000±0.007
84.9	0.1±0.3	-0.1±0.2	0.01±0.01	-1.58±0.02	1.261±0.007	1.261±0.007	-0.002±0.003	-0.002±0.007
90.0	0.1±0.3	-0.1±0.2	0.01±0.01	-1.58±0.02	1.263±0.007	1.263±0.007	-0.001±0.003	-0.002±0.007
100.2	0.2±0.3	0.1±0.2	0.01±0.01	-1.59±0.02	1.264±0.007	1.264±0.007	0.002±0.003	-0.004±0.007
110.3	0.2±0.3	0.1±0.2	0.01±0.01	-1.59±0.02	1.265±0.007	1.265±0.007	0.003±0.003	-0.004±0.007
120.5	0.3±0.3	0.2±0.2	0.01±0.01	-1.59±0.02	1.265±0.007	1.265±0.007	0.004±0.003	-0.006±0.007
130.7	0.3±0.3	0.2±0.2	0.01±0.01	-1.59±0.02	1.265±0.007	1.265±0.007	0.005±0.003	-0.008±0.007
140.8	0.4±0.3	0.3±0.2	0.01±0.01	-1.59±0.02	1.264±0.007	1.264±0.007	0.007±0.003	-0.008±0.007

Table B.117 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.7±0.3	3.9±0.2	-0.50±0.01	-1.58±0.02	1.039±0.007	1.033±0.007	0.070±0.004	-0.086±0.006
4.7	4.3±0.3	2.2±0.2	-0.50±0.01	-1.59±0.02	1.046±0.007	1.042±0.007	0.041±0.004	-0.078±0.006
5.7	3.6±0.3	1.6±0.2	-0.50±0.01	-1.60±0.02	1.048±0.007	1.046±0.007	0.028±0.004	-0.066±0.006
6.7	3.1±0.3	1.1±0.2	-0.50±0.01	-1.60±0.02	1.051±0.007	1.049±0.007	0.020±0.004	-0.056±0.006
7.7	2.6±0.3	0.7±0.2	-0.48±0.01	-1.59±0.02	1.057±0.007	1.055±0.007	0.014±0.004	-0.048±0.006
8.7	2.2±0.3	0.5±0.2	-0.46±0.01	-1.58±0.02	1.058±0.007	1.057±0.007	0.009±0.004	-0.041±0.006
9.8	2.0±0.3	0.4±0.2	-0.46±0.01	-1.59±0.02	1.064±0.007	1.064±0.007	0.007±0.004	-0.036±0.006
10.8	1.7±0.3	0.3±0.2	-0.44±0.01	-1.58±0.02	1.068±0.007	1.068±0.007	0.007±0.004	-0.033±0.006
11.8	1.5±0.3	0.2±0.2	-0.44±0.01	-1.59±0.02	1.074±0.007	1.074±0.007	0.003±0.004	-0.029±0.006
12.8	1.4±0.3	0.2±0.2	-0.42±0.01	-1.57±0.02	1.073±0.007	1.073±0.007	0.003±0.004	-0.026±0.006
13.8	1.2±0.3	0.0±0.2	-0.41±0.01	-1.58±0.02	1.081±0.007	1.081±0.007	0.001±0.004	-0.023±0.006
16.4	1.0±0.3	-0.1±0.2	-0.38±0.01	-1.57±0.02	1.092±0.007	1.092±0.007	-0.001±0.004	-0.019±0.006
18.9	0.8±0.3	-0.2±0.2	-0.36±0.01	-1.58±0.02	1.106±0.007	1.106±0.007	-0.004±0.004	-0.015±0.006
21.4	0.6±0.3	-0.2±0.2	-0.34±0.01	-1.58±0.02	1.116±0.007	1.116±0.007	-0.004±0.004	-0.012±0.006
24.0	0.5±0.3	-0.3±0.2	-0.31±0.01	-1.57±0.02	1.125±0.007	1.125±0.007	-0.005±0.004	-0.010±0.006
26.5	0.4±0.3	-0.4±0.2	-0.29±0.01	-1.57±0.02	1.134±0.007	1.134±0.007	-0.008±0.004	-0.008±0.006
29.1	0.3±0.3	-0.4±0.2	-0.27±0.01	-1.58±0.02	1.144±0.007	1.144±0.007	-0.008±0.004	-0.007±0.006
31.6	0.3±0.3	-0.4±0.2	-0.24±0.01	-1.57±0.02	1.153±0.007	1.153±0.007	-0.008±0.004	-0.005±0.006
34.1	0.2±0.3	-0.5±0.2	-0.22±0.01	-1.57±0.02	1.161±0.007	1.161±0.007	-0.010±0.004	-0.005±0.006
36.7	0.2±0.3	-0.4±0.2	-0.22±0.01	-1.59±0.02	1.171±0.007	1.171±0.007	-0.009±0.004	-0.003±0.006
39.2	0.1±0.3	-0.5±0.2	-0.18±0.01	-1.58±0.02	1.182±0.007	1.182±0.007	-0.010±0.004	-0.002±0.007
44.3	0.1±0.3	-0.5±0.2	-0.16±0.01	-1.59±0.02	1.195±0.007	1.195±0.007	-0.010±0.004	-0.002±0.007
49.4	0.0±0.3	-0.5±0.2	-0.13±0.01	-1.60±0.02	1.210±0.007	1.210±0.007	-0.010±0.004	-0.001±0.007
54.5	0.0±0.3	-0.4±0.2	-0.10±0.01	-1.60±0.02	1.226±0.007	1.226±0.007	-0.009±0.004	0.000±0.007
59.5	0.0±0.3	-0.4±0.2	-0.07±0.01	-1.60±0.02	1.236±0.007	1.236±0.007	-0.009±0.004	-0.001±0.007
64.6	0.0±0.3	-0.4±0.2	-0.04±0.01	-1.60±0.02	1.248±0.007	1.248±0.007	-0.009±0.004	0.000±0.007
69.7	0.0±0.3	-0.3±0.2	-0.02±0.01	-1.60±0.02	1.258±0.007	1.258±0.007	-0.007±0.003	0.000±0.007
74.8	0.0±0.3	-0.3±0.2	-0.01±0.01	-1.60±0.02	1.262±0.007	1.262±0.007	-0.006±0.003	-0.001±0.007
79.9	0.1±0.3	-0.2±0.2	0.00±0.01	-1.60±0.02	1.268±0.007	1.268±0.007	-0.005±0.003	-0.003±0.007
84.9	0.2±0.3	-0.2±0.2	0.01±0.01	-1.61±0.02	1.270±0.007	1.270±0.007	-0.005±0.003	-0.004±0.007
90.0	0.2±0.3	-0.1±0.2	0.01±0.01	-1.61±0.02	1.272±0.007	1.272±0.007	-0.003±0.003	-0.005±0.007
100.2	0.3±0.3	-0.2±0.2	0.01±0.01	-1.61±0.02	1.274±0.007	1.274±0.007	-0.004±0.003	-0.008±0.007
110.3	0.3±0.3	0.0±0.2	0.01±0.01	-1.61±0.02	1.274±0.007	1.274±0.007	0.000±0.003	-0.008±0.007
120.5	0.4±0.3	0.1±0.2	0.01±0.01	-1.61±0.02	1.274±0.007	1.274±0.007	0.001±0.003	-0.009±0.007
130.7	0.5±0.3	0.2±0.2	0.01±0.01	-1.61±0.02	1.274±0.007	1.274±0.007	0.003±0.003	-0.011±0.007
140.8	0.5±0.3	0.1±0.2	0.01±0.01	-1.61±0.02	1.273±0.007	1.273±0.007	0.003±0.003	-0.012±0.007

Table B.118 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(142 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.1±0.3	3.8±0.2	-0.44±0.01	-1.57±0.02	1.062±0.007	1.058±0.007	0.070±0.004	-0.057±0.006
4.7	2.9±0.3	1.8±0.2	-0.43±0.01	-1.55±0.02	1.060±0.007	1.058±0.007	0.033±0.004	-0.053±0.006
5.7	2.6±0.3	0.9±0.2	-0.43±0.01	-1.58±0.02	1.070±0.007	1.068±0.007	0.016±0.004	-0.048±0.006
6.7	2.3±0.3	0.4±0.2	-0.44±0.01	-1.59±0.02	1.075±0.007	1.074±0.007	0.007±0.004	-0.043±0.006
7.7	2.1±0.3	0.1±0.2	-0.42±0.01	-1.58±0.02	1.079±0.007	1.078±0.007	0.002±0.004	-0.040±0.006
8.7	1.9±0.3	-0.2±0.2	-0.42±0.01	-1.58±0.02	1.080±0.007	1.079±0.007	-0.004±0.004	-0.036±0.006
9.8	1.7±0.3	-0.3±0.2	-0.41±0.01	-1.58±0.02	1.082±0.007	1.082±0.007	-0.006±0.004	-0.033±0.006
10.8	1.6±0.3	-0.4±0.2	-0.40±0.01	-1.58±0.02	1.089±0.007	1.089±0.007	-0.008±0.004	-0.030±0.006
11.8	1.5±0.3	-0.5±0.2	-0.38±0.01	-1.56±0.02	1.086±0.007	1.085±0.007	-0.010±0.004	-0.028±0.006
12.8	1.3±0.3	-0.6±0.2	-0.38±0.01	-1.58±0.02	1.096±0.007	1.096±0.007	-0.012±0.004	-0.024±0.006
13.8	1.2±0.3	-0.7±0.2	-0.37±0.01	-1.57±0.02	1.098±0.007	1.097±0.007	-0.013±0.004	-0.022±0.006
16.4	0.9±0.3	-0.8±0.2	-0.35±0.01	-1.58±0.02	1.107±0.007	1.106±0.007	-0.016±0.004	-0.018±0.006
18.9	0.7±0.3	-0.9±0.2	-0.32±0.01	-1.57±0.02	1.115±0.007	1.114±0.007	-0.018±0.004	-0.014±0.006
21.4	0.6±0.3	-1.0±0.2	-0.31±0.01	-1.58±0.02	1.128±0.007	1.128±0.007	-0.020±0.004	-0.011±0.006
24.0	0.5±0.3	-1.1±0.2	-0.29±0.01	-1.58±0.02	1.137±0.007	1.136±0.007	-0.021±0.004	-0.010±0.006
26.5	0.3±0.3	-1.1±0.2	-0.27±0.01	-1.59±0.02	1.149±0.007	1.148±0.007	-0.023±0.004	-0.007±0.006
29.1	0.3±0.3	-1.2±0.2	-0.25±0.01	-1.58±0.02	1.151±0.007	1.151±0.007	-0.024±0.004	-0.005±0.006
31.6	0.2±0.3	-1.2±0.2	-0.22±0.01	-1.57±0.02	1.161±0.007	1.161±0.007	-0.025±0.004	-0.004±0.006
34.1	0.1±0.3	-1.2±0.2	-0.21±0.01	-1.59±0.02	1.173±0.007	1.172±0.007	-0.025±0.004	-0.003±0.006
36.7	0.1±0.3	-1.2±0.2	-0.19±0.01	-1.57±0.02	1.176±0.007	1.176±0.007	-0.025±0.004	-0.002±0.006
39.2	0.1±0.3	-1.3±0.2	-0.18±0.01	-1.57±0.02	1.179±0.007	1.179±0.007	-0.026±0.004	-0.002±0.007
44.3	0.1±0.3	-1.2±0.2	-0.15±0.01	-1.61±0.02	1.206±0.007	1.206±0.007	-0.024±0.004	-0.002±0.007
49.4	0.1±0.3	-1.2±0.2	-0.12±0.01	-1.59±0.02	1.214±0.007	1.214±0.007	-0.024±0.004	-0.002±0.007
54.5	0.1±0.3	-1.1±0.2	-0.09±0.01	-1.61±0.02	1.235±0.007	1.234±0.007	-0.023±0.004	-0.002±0.007
59.5	0.0±0.3	-0.9±0.2	-0.06±0.01	-1.60±0.02	1.242±0.007	1.241±0.007	-0.020±0.004	-0.001±0.007
64.6	0.0±0.3	-0.9±0.2	-0.04±0.01	-1.61±0.02	1.253±0.007	1.253±0.007	-0.019±0.004	0.000±0.007
69.7	0.0±0.3	-0.7±0.2	-0.02±0.01	-1.61±0.02	1.261±0.007	1.261±0.007	-0.016±0.004	0.000±0.007
74.8	0.0±0.3	-0.7±0.2	-0.01±0.01	-1.62±0.02	1.270±0.007	1.270±0.007	-0.015±0.003	-0.001±0.007
79.9	0.1±0.3	-0.6±0.2	0.00±0.01	-1.62±0.02	1.274±0.007	1.274±0.007	-0.014±0.003	-0.003±0.007
84.9	0.1±0.3	-0.5±0.2	0.00±0.01	-1.63±0.02	1.277±0.007	1.277±0.007	-0.012±0.003	-0.003±0.007
90.0	0.1±0.3	-0.5±0.2	0.01±0.01	-1.63±0.02	1.280±0.007	1.280±0.007	-0.010±0.003	-0.003±0.007
100.2	0.2±0.3	-0.4±0.2	0.01±0.01	-1.63±0.02	1.282±0.007	1.282±0.007	-0.008±0.003	-0.005±0.007
110.3	0.3±0.3	-0.2±0.2	0.01±0.01	-1.63±0.02	1.283±0.007	1.283±0.007	-0.005±0.003	-0.006±0.007
120.5	0.3±0.3	-0.2±0.2	0.01±0.01	-1.64±0.02	1.284±0.007	1.284±0.007	-0.004±0.003	-0.007±0.007
130.7	0.4±0.3	-0.2±0.2	0.01±0.01	-1.64±0.02	1.284±0.007	1.284±0.007	-0.004±0.003	-0.008±0.007
140.8	0.4±0.3	-0.1±0.2	0.01±0.01	-1.63±0.02	1.282±0.007	1.282±0.007	-0.002±0.003	-0.008±0.007

Table B.119 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.0±0.3	2.1±0.6	-0.77±0.01	-1.20±0.02	0.654±0.007	0.653±0.007	0.023±0.007	0.034±0.004
4.7	-2.9±0.3	0.9±0.5	-0.74±0.01	-1.21±0.02	0.686±0.007	0.685±0.007	0.011±0.006	0.034±0.004
5.7	-2.8±0.3	0.4±0.5	-0.71±0.01	-1.22±0.02	0.710±0.007	0.710±0.007	0.006±0.006	0.035±0.004
6.7	-2.6±0.3	0.3±0.5	-0.67±0.01	-1.20±0.02	0.732±0.007	0.732±0.007	0.004±0.006	0.033±0.004
7.7	-2.5±0.3	0.3±0.4	-0.65±0.01	-1.22±0.02	0.755±0.007	0.754±0.007	0.004±0.006	0.033±0.004
8.7	-2.3±0.3	0.1±0.4	-0.62±0.01	-1.21±0.02	0.766±0.007	0.765±0.007	0.001±0.006	0.030±0.004
9.8	-2.2±0.3	0.0±0.4	-0.61±0.01	-1.21±0.02	0.776±0.007	0.775±0.007	0.000±0.006	0.029±0.004
10.8	-2.1±0.3	0.1±0.4	-0.59±0.01	-1.21±0.02	0.790±0.007	0.790±0.007	0.001±0.005	0.029±0.004
11.8	-2.0±0.3	0.0±0.4	-0.56±0.01	-1.20±0.02	0.799±0.007	0.798±0.007	0.000±0.005	0.028±0.004
12.8	-2.0±0.3	0.1±0.4	-0.55±0.01	-1.21±0.02	0.811±0.006	0.811±0.006	0.001±0.005	0.028±0.004
13.8	-2.0±0.3	0.2±0.4	-0.53±0.01	-1.20±0.02	0.817±0.006	0.816±0.006	0.003±0.005	0.028±0.005
16.4	-1.8±0.3	0.1±0.4	-0.51±0.01	-1.21±0.02	0.835±0.006	0.835±0.006	0.002±0.005	0.026±0.005
18.9	-1.8±0.3	0.2±0.3	-0.47±0.01	-1.20±0.02	0.853±0.006	0.853±0.006	0.003±0.005	0.026±0.005
21.4	-1.7±0.3	0.3±0.3	-0.45±0.01	-1.21±0.02	0.868±0.006	0.867±0.006	0.004±0.005	0.026±0.005
24.0	-1.7±0.3	0.2±0.3	-0.41±0.01	-1.20±0.02	0.887±0.006	0.887±0.006	0.004±0.005	0.026±0.005
26.5	-1.6±0.3	0.3±0.3	-0.39±0.01	-1.20±0.02	0.899±0.006	0.899±0.006	0.004±0.005	0.026±0.005
29.1	-1.6±0.3	0.3±0.3	-0.37±0.01	-1.21±0.02	0.914±0.006	0.914±0.006	0.006±0.005	0.026±0.005
31.6	-1.7±0.3	0.3±0.3	-0.34±0.01	-1.20±0.02	0.926±0.006	0.926±0.006	0.005±0.005	0.027±0.005
34.1	-1.6±0.3	0.3±0.3	-0.32±0.01	-1.21±0.02	0.939±0.006	0.939±0.006	0.005±0.005	0.027±0.005
36.7	-1.6±0.3	0.3±0.3	-0.30±0.01	-1.21±0.02	0.950±0.006	0.950±0.006	0.006±0.005	0.027±0.005
39.2	-1.6±0.3	0.4±0.3	-0.28±0.01	-1.21±0.02	0.964±0.006	0.964±0.006	0.006±0.004	0.026±0.005
44.3	-1.6±0.3	0.3±0.3	-0.23±0.01	-1.20±0.02	0.982±0.006	0.982±0.006	0.006±0.004	0.027±0.005
49.4	-1.5±0.3	0.4±0.2	-0.20±0.01	-1.20±0.02	1.004±0.006	1.004±0.006	0.006±0.004	0.026±0.006
54.5	-1.5±0.3	0.4±0.2	-0.16±0.01	-1.21±0.02	1.025±0.006	1.025±0.006	0.007±0.004	0.026±0.006
59.5	-1.5±0.3	0.4±0.2	-0.12±0.01	-1.20±0.02	1.037±0.006	1.037±0.006	0.007±0.004	0.026±0.006
64.6	-1.4±0.3	0.4±0.2	-0.09±0.01	-1.20±0.02	1.054±0.006	1.054±0.006	0.007±0.004	0.026±0.006
69.7	-1.3±0.3	0.4±0.2	-0.06±0.01	-1.20±0.02	1.069±0.006	1.069±0.006	0.008±0.004	0.024±0.006
74.8	-1.3±0.3	0.4±0.2	-0.03±0.01	-1.20±0.02	1.080±0.007	1.079±0.007	0.008±0.004	0.024±0.006
79.9	-1.3±0.3	0.4±0.2	-0.02±0.01	-1.20±0.02	1.087±0.007	1.086±0.007	0.008±0.004	0.024±0.006
84.9	-1.2±0.3	0.4±0.2	0.00±0.01	-1.20±0.02	1.093±0.007	1.093±0.007	0.008±0.004	0.023±0.006
90.0	-1.2±0.3	0.4±0.2	0.01±0.01	-1.19±0.02	1.095±0.007	1.095±0.007	0.008±0.004	0.023±0.006
100.2	-1.2±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.098±0.007	0.008±0.004	0.022±0.006
110.3	-1.1±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.099±0.007	1.098±0.007	0.007±0.004	0.020±0.006
120.5	-1.1±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.098±0.007	0.007±0.004	0.020±0.006
130.7	-1.1±0.3	0.4±0.2	0.01±0.01	-1.19±0.02	1.097±0.007	1.097±0.007	0.007±0.004	0.020±0.006
140.8	-1.0±0.3	0.4±0.2	0.01±0.01	-1.19±0.02	1.098±0.007	1.097±0.007	0.007±0.004	0.019±0.006

Table B.120 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.0±0.3	2.2±0.6	-0.78±0.01	-1.21±0.02	0.654±0.007	0.652±0.007	0.026±0.007	0.035±0.004
4.7	-2.9±0.3	1.0±0.5	-0.74±0.01	-1.20±0.02	0.679±0.007	0.678±0.007	0.012±0.006	0.035±0.004
5.7	-2.8±0.3	0.5±0.5	-0.70±0.01	-1.20±0.02	0.711±0.007	0.711±0.007	0.006±0.006	0.034±0.004
6.7	-2.6±0.3	0.3±0.5	-0.67±0.01	-1.21±0.02	0.734±0.007	0.733±0.007	0.004±0.006	0.033±0.004
7.7	-2.5±0.3	0.2±0.4	-0.64±0.01	-1.20±0.02	0.746±0.007	0.745±0.007	0.003±0.006	0.033±0.004
8.7	-2.3±0.3	0.1±0.4	-0.62±0.01	-1.20±0.02	0.766±0.007	0.765±0.007	0.001±0.006	0.031±0.004
9.8	-2.2±0.3	0.0±0.4	-0.59±0.01	-1.20±0.02	0.782±0.007	0.781±0.007	0.000±0.006	0.030±0.004
10.8	-2.2±0.3	0.0±0.4	-0.57±0.01	-1.20±0.02	0.793±0.007	0.793±0.007	0.000±0.005	0.031±0.004
11.8	-2.1±0.3	0.0±0.4	-0.56±0.01	-1.20±0.02	0.804±0.007	0.804±0.007	0.000±0.005	0.029±0.004
12.8	-2.0±0.3	0.0±0.4	-0.54±0.01	-1.20±0.02	0.812±0.007	0.812±0.007	0.001±0.005	0.029±0.004
13.8	-2.0±0.3	0.0±0.4	-0.53±0.01	-1.20±0.02	0.821±0.007	0.821±0.007	0.001±0.005	0.029±0.005
16.4	-1.9±0.3	0.1±0.4	-0.49±0.01	-1.20±0.02	0.842±0.006	0.842±0.006	0.001±0.005	0.028±0.005
18.9	-1.9±0.3	0.2±0.3	-0.46±0.01	-1.20±0.02	0.859±0.006	0.859±0.006	0.003±0.005	0.028±0.005
21.4	-1.8±0.3	0.1±0.3	-0.44±0.01	-1.20±0.02	0.874±0.006	0.873±0.006	0.001±0.005	0.028±0.005
24.0	-1.9±0.3	0.2±0.3	-0.42±0.01	-1.21±0.02	0.889±0.006	0.888±0.006	0.003±0.005	0.029±0.005
26.5	-1.9±0.3	0.2±0.3	-0.39±0.01	-1.21±0.02	0.906±0.006	0.906±0.006	0.003±0.005	0.029±0.005
29.1	-1.8±0.3	0.3±0.3	-0.36±0.01	-1.20±0.02	0.915±0.006	0.914±0.006	0.004±0.005	0.029±0.005
31.6	-1.9±0.3	0.3±0.3	-0.33±0.01	-1.20±0.02	0.932±0.006	0.931±0.006	0.005±0.005	0.030±0.005
34.1	-1.9±0.3	0.4±0.3	-0.31±0.01	-1.19±0.02	0.938±0.006	0.937±0.006	0.006±0.005	0.030±0.005
36.7	-1.8±0.3	0.3±0.3	-0.28±0.01	-1.20±0.02	0.956±0.006	0.955±0.006	0.005±0.005	0.030±0.005
39.2	-1.8±0.3	0.3±0.3	-0.26±0.01	-1.20±0.02	0.966±0.006	0.965±0.006	0.005±0.004	0.030±0.005
44.3	-1.8±0.3	0.4±0.3	-0.23±0.01	-1.21±0.02	0.987±0.006	0.986±0.006	0.006±0.004	0.031±0.005
49.4	-1.7±0.3	0.4±0.2	-0.18±0.01	-1.20±0.02	1.012±0.006	1.012±0.006	0.006±0.004	0.030±0.006
54.5	-1.7±0.3	0.4±0.2	-0.15±0.01	-1.20±0.02	1.026±0.006	1.026±0.006	0.007±0.004	0.031±0.006
59.5	-1.6±0.3	0.4±0.2	-0.11±0.01	-1.20±0.02	1.043±0.006	1.043±0.006	0.007±0.004	0.030±0.006
64.6	-1.6±0.3	0.4±0.2	-0.07±0.01	-1.19±0.02	1.059±0.007	1.059±0.007	0.007±0.004	0.030±0.006
69.7	-1.6±0.3	0.4±0.2	-0.04±0.01	-1.19±0.02	1.070±0.007	1.070±0.007	0.008±0.004	0.029±0.006
74.8	-1.5±0.3	0.4±0.2	-0.03±0.01	-1.20±0.02	1.083±0.007	1.083±0.007	0.008±0.004	0.029±0.006
79.9	-1.5±0.3	0.4±0.2	-0.01±0.01	-1.19±0.02	1.087±0.007	1.087±0.007	0.008±0.004	0.028±0.006
84.9	-1.5±0.3	0.4±0.2	0.00±0.01	-1.19±0.02	1.092±0.007	1.092±0.007	0.008±0.004	0.029±0.006
90.0	-1.5±0.3	0.4±0.2	0.00±0.01	-1.19±0.02	1.094±0.007	1.094±0.007	0.008±0.004	0.029±0.006
100.2	-1.5±0.3	0.4±0.2	0.01±0.01	-1.19±0.02	1.096±0.007	1.096±0.007	0.007±0.004	0.028±0.006
110.3	-1.5±0.3	0.4±0.2	0.01±0.01	-1.19±0.02	1.097±0.007	1.096±0.007	0.007±0.004	0.028±0.006
120.5	-1.4±0.3	0.3±0.2	0.01±0.01	-1.19±0.02	1.096±0.007	1.096±0.007	0.006±0.004	0.026±0.006
130.7	-1.2±0.3	0.2±0.2	0.01±0.01	-1.19±0.02	1.096±0.007	1.096±0.007	0.005±0.004	0.024±0.006
140.8	-1.2±0.3	0.2±0.2	0.01±0.01	-1.19±0.02	1.095±0.007	1.095±0.007	0.004±0.004	0.023±0.006

Table B.121 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.6±0.3	2.2±0.6	-0.78±0.01	-1.20±0.02	0.650±0.007	0.648±0.007	0.025±0.007	0.041±0.004
4.7	-3.3±0.3	1.0±0.5	-0.73±0.01	-1.21±0.02	0.687±0.007	0.685±0.007	0.012±0.006	0.040±0.004
5.7	-3.3±0.3	0.4±0.5	-0.70±0.01	-1.21±0.02	0.714±0.007	0.712±0.007	0.006±0.006	0.042±0.004
6.7	-3.2±0.3	0.3±0.5	-0.67±0.01	-1.20±0.02	0.733±0.007	0.732±0.007	0.004±0.006	0.040±0.004
7.7	-3.0±0.3	0.2±0.4	-0.64±0.01	-1.21±0.02	0.754±0.007	0.753±0.007	0.003±0.006	0.040±0.004
8.7	-2.9±0.3	0.0±0.4	-0.61±0.01	-1.21±0.02	0.769±0.007	0.768±0.007	0.001±0.006	0.038±0.004
9.8	-2.8±0.3	0.0±0.4	-0.59±0.01	-1.21±0.02	0.786±0.007	0.785±0.007	0.000±0.006	0.038±0.004
10.8	-2.7±0.3	0.0±0.4	-0.58±0.01	-1.21±0.02	0.793±0.007	0.792±0.007	0.000±0.005	0.037±0.004
11.8	-2.6±0.3	0.0±0.4	-0.56±0.01	-1.22±0.02	0.812±0.007	0.811±0.007	0.000±0.005	0.037±0.004
12.8	-2.5±0.3	0.0±0.4	-0.55±0.01	-1.21±0.02	0.817±0.007	0.816±0.007	0.000±0.005	0.036±0.005
13.8	-2.5±0.3	0.0±0.4	-0.53±0.01	-1.22±0.02	0.829±0.006	0.828±0.006	0.000±0.005	0.037±0.005
16.4	-2.4±0.3	0.0±0.3	-0.49±0.01	-1.21±0.02	0.848±0.006	0.848±0.006	0.001±0.005	0.036±0.005
18.9	-2.4±0.3	0.0±0.3	-0.47±0.01	-1.21±0.02	0.863±0.006	0.863±0.006	0.000±0.005	0.036±0.005
21.4	-2.3±0.3	0.1±0.3	-0.43±0.01	-1.20±0.02	0.879±0.006	0.878±0.006	0.001±0.005	0.036±0.005
24.0	-2.3±0.3	0.1±0.3	-0.41±0.01	-1.21±0.02	0.895±0.006	0.894±0.006	0.002±0.005	0.036±0.005
26.5	-2.4±0.3	0.1±0.3	-0.39±0.01	-1.21±0.02	0.905±0.006	0.905±0.006	0.001±0.005	0.037±0.005
29.1	-2.3±0.3	0.2±0.3	-0.36±0.01	-1.21±0.02	0.919±0.006	0.918±0.006	0.003±0.005	0.037±0.005
31.6	-2.3±0.3	0.2±0.3	-0.34±0.01	-1.20±0.02	0.931±0.006	0.930±0.006	0.003±0.005	0.038±0.005
34.1	-2.3±0.3	0.3±0.3	-0.31±0.01	-1.20±0.02	0.943±0.006	0.942±0.006	0.004±0.005	0.038±0.005
36.7	-2.3±0.3	0.3±0.3	-0.29±0.01	-1.20±0.02	0.952±0.006	0.951±0.006	0.005±0.005	0.038±0.005
39.2	-2.3±0.3	0.4±0.3	-0.26±0.01	-1.20±0.02	0.967±0.006	0.966±0.006	0.006±0.004	0.039±0.005
44.3	-2.3±0.3	0.4±0.3	-0.23±0.01	-1.22±0.02	0.993±0.006	0.992±0.006	0.006±0.004	0.039±0.005
49.4	-2.2±0.3	0.4±0.2	-0.19±0.01	-1.22±0.02	1.014±0.006	1.013±0.006	0.007±0.004	0.039±0.006
54.5	-2.2±0.3	0.4±0.2	-0.15±0.01	-1.21±0.02	1.030±0.006	1.029±0.006	0.007±0.004	0.039±0.006
59.5	-2.2±0.3	0.4±0.2	-0.12±0.01	-1.21±0.02	1.045±0.006	1.044±0.006	0.008±0.004	0.040±0.006
64.6	-2.1±0.3	0.4±0.2	-0.08±0.01	-1.20±0.02	1.057±0.007	1.056±0.007	0.008±0.004	0.040±0.006
69.7	-2.1±0.3	0.4±0.2	-0.05±0.01	-1.20±0.02	1.073±0.007	1.072±0.007	0.008±0.004	0.040±0.006
74.8	-2.1±0.3	0.4±0.2	-0.03±0.01	-1.20±0.02	1.081±0.007	1.080±0.007	0.008±0.004	0.039±0.006
79.9	-2.1±0.3	0.4±0.2	-0.01±0.01	-1.19±0.02	1.090±0.007	1.089±0.007	0.008±0.004	0.040±0.006
84.9	-2.1±0.3	0.4±0.2	0.00±0.01	-1.20±0.02	1.096±0.007	1.095±0.007	0.008±0.004	0.040±0.006
90.0	-2.1±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.098±0.007	0.008±0.004	0.040±0.006
100.2	-2.0±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.100±0.007	1.099±0.007	0.007±0.004	0.039±0.006
110.3	-2.0±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.100±0.007	1.100±0.007	0.007±0.004	0.039±0.006
120.5	-1.9±0.3	0.3±0.2	0.01±0.01	-1.20±0.02	1.100±0.007	1.100±0.007	0.006±0.004	0.037±0.006
130.7	-1.9±0.3	0.2±0.2	0.01±0.01	-1.20±0.02	1.100±0.007	1.100±0.007	0.004±0.004	0.036±0.006
140.8	-1.9±0.3	0.1±0.2	0.01±0.01	-1.20±0.02	1.101±0.007	1.100±0.007	0.002±0.004	0.036±0.006

Table B.122 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.9±0.3	2.3±0.6	-0.80±0.01	-1.19±0.02	0.627±0.007	0.625±0.007	0.025±0.007	0.043±0.003
4.7	-3.9±0.3	1.0±0.6	-0.76±0.01	-1.19±0.02	0.657±0.007	0.655±0.007	0.012±0.007	0.045±0.004
5.7	-3.7±0.3	0.4±0.5	-0.72±0.01	-1.20±0.02	0.691±0.007	0.690±0.007	0.005±0.006	0.045±0.004
6.7	-3.6±0.3	0.3±0.5	-0.69±0.01	-1.20±0.02	0.714±0.007	0.712±0.007	0.004±0.006	0.045±0.004
7.7	-3.5±0.3	0.3±0.5	-0.67±0.01	-1.20±0.02	0.730±0.007	0.729±0.007	0.004±0.006	0.044±0.004
8.7	-3.2±0.3	0.1±0.4	-0.64±0.01	-1.20±0.02	0.747±0.007	0.746±0.007	0.001±0.006	0.042±0.004
9.8	-3.1±0.3	0.0±0.4	-0.62±0.01	-1.20±0.02	0.762±0.007	0.761±0.007	0.000±0.006	0.042±0.004
10.8	-3.0±0.3	0.2±0.4	-0.60±0.01	-1.20±0.02	0.773±0.007	0.772±0.007	0.002±0.006	0.040±0.004
11.8	-2.8±0.3	0.1±0.4	-0.59±0.01	-1.20±0.02	0.778±0.007	0.777±0.007	0.001±0.006	0.039±0.004
12.8	-2.8±0.3	0.2±0.4	-0.57±0.01	-1.19±0.02	0.782±0.007	0.781±0.007	0.003±0.006	0.039±0.004
13.8	-2.7±0.3	0.1±0.4	-0.57±0.01	-1.21±0.02	0.798±0.007	0.797±0.007	0.001±0.005	0.038±0.004
16.4	-2.6±0.3	0.3±0.4	-0.53±0.01	-1.20±0.02	0.814±0.007	0.813±0.006	0.004±0.005	0.036±0.004
18.9	-2.5±0.3	0.4±0.4	-0.49±0.01	-1.19±0.02	0.835±0.006	0.834±0.006	0.005±0.005	0.037±0.005
21.4	-2.4±0.3	0.3±0.3	-0.46±0.01	-1.19±0.02	0.853±0.006	0.852±0.006	0.005±0.005	0.036±0.005
24.0	-2.4±0.3	0.4±0.3	-0.45±0.01	-1.20±0.02	0.868±0.006	0.867±0.006	0.005±0.005	0.037±0.005
26.5	-2.4±0.3	0.3±0.3	-0.42±0.01	-1.20±0.02	0.882±0.006	0.882±0.006	0.005±0.005	0.037±0.005
29.1	-2.4±0.3	0.4±0.3	-0.38±0.01	-1.18±0.02	0.897±0.006	0.896±0.006	0.006±0.005	0.038±0.005
31.6	-2.4±0.3	0.4±0.3	-0.36±0.01	-1.20±0.02	0.913±0.006	0.912±0.006	0.006±0.005	0.039±0.005
34.1	-2.4±0.3	0.4±0.3	-0.33±0.01	-1.19±0.02	0.930±0.006	0.929±0.006	0.007±0.005	0.039±0.005
36.7	-2.4±0.3	0.4±0.3	-0.32±0.01	-1.20±0.02	0.936±0.006	0.935±0.006	0.007±0.005	0.039±0.005
39.2	-2.4±0.3	0.4±0.3	-0.28±0.01	-1.18±0.02	0.952±0.006	0.951±0.006	0.007±0.005	0.040±0.005
44.3	-2.3±0.3	0.4±0.3	-0.23±0.01	-1.18±0.02	0.973±0.006	0.972±0.006	0.007±0.004	0.040±0.005
49.4	-2.3±0.3	0.4±0.2	-0.21±0.01	-1.20±0.02	0.999±0.006	0.998±0.006	0.008±0.004	0.041±0.006
54.5	-2.4±0.3	0.4±0.2	-0.15±0.01	-1.19±0.02	1.021±0.006	1.020±0.006	0.008±0.004	0.042±0.006
59.5	-2.3±0.3	0.5±0.2	-0.12±0.01	-1.20±0.02	1.036±0.006	1.035±0.006	0.008±0.004	0.042±0.006
64.6	-2.3±0.3	0.4±0.2	-0.08±0.01	-1.17±0.02	1.048±0.006	1.047±0.006	0.008±0.004	0.043±0.006
69.7	-2.3±0.3	0.4±0.2	-0.05±0.01	-1.18±0.02	1.062±0.007	1.061±0.006	0.008±0.004	0.043±0.006
74.8	-2.3±0.3	0.4±0.2	-0.04±0.01	-1.19±0.02	1.075±0.007	1.075±0.007	0.008±0.004	0.043±0.006
79.9	-2.3±0.3	0.5±0.2	-0.02±0.01	-1.19±0.02	1.082±0.007	1.081±0.007	0.009±0.004	0.043±0.006
84.9	-2.3±0.3	0.5±0.2	0.00±0.01	-1.18±0.02	1.088±0.007	1.087±0.007	0.009±0.004	0.043±0.006
90.0	-2.2±0.3	0.5±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.088±0.007	0.009±0.004	0.042±0.006
100.2	-2.2±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.090±0.007	0.008±0.004	0.041±0.006
110.3	-2.1±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.007±0.004	0.041±0.006
120.5	-2.1±0.3	0.3±0.2	0.01±0.01	-1.19±0.02	1.092±0.007	1.092±0.007	0.005±0.004	0.040±0.006
130.7	-2.1±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.090±0.007	0.003±0.004	0.039±0.006
140.8	-2.0±0.3	0.1±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.090±0.007	0.002±0.004	0.038±0.006

Table B.123 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.6±0.3	2.6±0.8	-0.85±0.01	-1.17±0.02	0.565±0.008	0.564±0.008	0.026±0.008	0.025±0.003
4.7	-2.7±0.3	1.0±0.7	-0.81±0.01	-1.17±0.02	0.599±0.008	0.598±0.008	0.011±0.007	0.028±0.003
5.7	-2.6±0.3	0.4±0.6	-0.78±0.01	-1.18±0.02	0.637±0.007	0.636±0.007	0.005±0.007	0.029±0.004
6.7	-2.5±0.3	0.3±0.6	-0.75±0.01	-1.18±0.02	0.656±0.007	0.656±0.007	0.003±0.007	0.028±0.004
7.7	-2.5±0.3	0.3±0.5	-0.71±0.01	-1.18±0.02	0.679±0.007	0.678±0.007	0.003±0.006	0.030±0.004
8.7	-2.5±0.3	0.3±0.5	-0.70±0.01	-1.17±0.02	0.692±0.007	0.691±0.007	0.003±0.006	0.030±0.004
9.8	-2.4±0.3	0.3±0.5	-0.67±0.01	-1.19±0.02	0.720±0.007	0.719±0.007	0.004±0.006	0.030±0.004
10.8	-2.3±0.3	0.3±0.5	-0.64±0.01	-1.18±0.02	0.729±0.007	0.729±0.007	0.004±0.006	0.029±0.004
11.8	-2.3±0.3	0.3±0.4	-0.62±0.01	-1.18±0.02	0.749±0.007	0.748±0.007	0.004±0.006	0.030±0.004
12.8	-2.3±0.3	0.4±0.4	-0.62±0.01	-1.18±0.02	0.754±0.007	0.753±0.007	0.005±0.006	0.030±0.004
13.8	-2.2±0.3	0.4±0.4	-0.60±0.01	-1.18±0.02	0.761±0.007	0.760±0.007	0.005±0.006	0.030±0.004
16.4	-2.3±0.3	0.4±0.4	-0.55±0.01	-1.17±0.02	0.788±0.007	0.787±0.007	0.005±0.005	0.032±0.004
18.9	-2.4±0.3	0.4±0.4	-0.52±0.01	-1.18±0.02	0.807±0.006	0.807±0.006	0.006±0.005	0.034±0.004
21.4	-2.4±0.3	0.5±0.4	-0.51±0.01	-1.19±0.02	0.828±0.006	0.827±0.006	0.008±0.005	0.035±0.005
24.0	-2.6±0.3	0.5±0.4	-0.46±0.01	-1.17±0.02	0.839±0.006	0.839±0.006	0.007±0.005	0.038±0.005
26.5	-2.7±0.3	0.5±0.3	-0.45±0.01	-1.18±0.02	0.855±0.006	0.854±0.006	0.007±0.005	0.040±0.005
29.1	-2.7±0.3	0.6±0.3	-0.42±0.01	-1.18±0.02	0.870±0.006	0.869±0.006	0.009±0.005	0.041±0.005
31.6	-2.7±0.3	0.5±0.3	-0.39±0.01	-1.18±0.02	0.890±0.006	0.889±0.006	0.008±0.005	0.042±0.005
34.1	-2.8±0.3	0.6±0.3	-0.36±0.01	-1.16±0.02	0.895±0.006	0.894±0.006	0.010±0.005	0.043±0.005
36.7	-2.8±0.3	0.7±0.3	-0.33±0.01	-1.17±0.02	0.918±0.006	0.917±0.006	0.010±0.005	0.044±0.005
39.2	-2.8±0.3	0.7±0.3	-0.30±0.01	-1.18±0.02	0.937±0.006	0.936±0.006	0.011±0.005	0.045±0.005
44.3	-2.7±0.3	0.7±0.3	-0.25±0.01	-1.17±0.02	0.958±0.006	0.957±0.006	0.012±0.004	0.045±0.005
49.4	-2.6±0.3	0.6±0.3	-0.21±0.01	-1.17±0.02	0.981±0.006	0.980±0.006	0.011±0.004	0.045±0.005
54.5	-2.7±0.3	0.6±0.2	-0.16±0.01	-1.16±0.02	1.001±0.006	1.000±0.006	0.011±0.004	0.047±0.006
59.5	-2.6±0.3	0.6±0.2	-0.13±0.01	-1.17±0.02	1.019±0.006	1.018±0.006	0.011±0.004	0.047±0.006
64.6	-2.6±0.3	0.6±0.2	-0.10±0.01	-1.17±0.02	1.035±0.006	1.034±0.006	0.010±0.004	0.047±0.006
69.7	-2.6±0.3	0.5±0.2	-0.07±0.01	-1.18±0.02	1.053±0.006	1.052±0.006	0.010±0.004	0.047±0.006
74.8	-2.5±0.3	0.5±0.2	-0.04±0.01	-1.16±0.02	1.062±0.006	1.061±0.006	0.009±0.004	0.046±0.006
79.9	-2.5±0.3	0.5±0.2	-0.02±0.01	-1.17±0.02	1.071±0.006	1.070±0.006	0.010±0.004	0.047±0.006
84.9	-2.4±0.3	0.4±0.2	-0.01±0.01	-1.17±0.02	1.077±0.006	1.076±0.006	0.008±0.004	0.046±0.006
90.0	-2.4±0.3	0.4±0.2	0.00±0.01	-1.16±0.02	1.080±0.007	1.079±0.007	0.008±0.004	0.046±0.006
100.2	-2.3±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.081±0.007	0.008±0.004	0.044±0.006
110.3	-2.3±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.082±0.007	0.007±0.004	0.044±0.006
120.5	-2.3±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.080±0.007	0.004±0.004	0.044±0.006
130.7	-2.3±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.081±0.007	0.003±0.004	0.044±0.006
140.8	-2.3±0.3	0.1±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.081±0.007	0.002±0.004	0.044±0.006

Table B.124 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.3±0.3	3.0±0.8	-0.87±0.01	-1.18±0.02	0.555±0.008	0.554±0.008	0.029±0.008	0.022±0.003
4.7	-2.4±0.3	1.1±0.7	-0.83±0.01	-1.19±0.02	0.596±0.008	0.596±0.008	0.011±0.007	0.025±0.003
5.7	-2.5±0.3	0.4±0.6	-0.80±0.01	-1.18±0.02	0.621±0.007	0.620±0.007	0.005±0.007	0.027±0.003
6.7	-2.4±0.3	0.3±0.6	-0.76±0.01	-1.18±0.02	0.646±0.007	0.646±0.007	0.003±0.007	0.027±0.004
7.7	-2.4±0.3	0.3±0.6	-0.73±0.01	-1.17±0.02	0.666±0.007	0.666±0.007	0.003±0.006	0.028±0.004
8.7	-2.3±0.3	0.3±0.5	-0.71±0.01	-1.18±0.02	0.688±0.007	0.688±0.007	0.003±0.006	0.028±0.004
9.8	-2.2±0.3	0.2±0.5	-0.68±0.01	-1.17±0.02	0.706±0.007	0.706±0.007	0.002±0.006	0.027±0.004
10.8	-2.2±0.3	0.2±0.5	-0.66±0.01	-1.18±0.02	0.718±0.007	0.718±0.007	0.003±0.006	0.027±0.004
11.8	-2.0±0.3	0.3±0.5	-0.64±0.01	-1.18±0.02	0.736±0.007	0.735±0.007	0.004±0.006	0.026±0.004
12.8	-2.1±0.3	0.4±0.4	-0.62±0.01	-1.18±0.02	0.747±0.007	0.747±0.007	0.005±0.006	0.027±0.004
13.8	-2.1±0.3	0.3±0.4	-0.61±0.01	-1.19±0.02	0.766±0.007	0.765±0.007	0.004±0.006	0.028±0.004
16.4	-2.2±0.3	0.4±0.4	-0.57±0.01	-1.19±0.02	0.788±0.007	0.788±0.007	0.005±0.005	0.030±0.004
18.9	-2.3±0.3	0.5±0.4	-0.54±0.01	-1.18±0.02	0.799±0.006	0.798±0.006	0.006±0.005	0.032±0.004
21.4	-2.4±0.3	0.5±0.4	-0.51±0.01	-1.18±0.02	0.820±0.006	0.819±0.006	0.007±0.005	0.034±0.005
24.0	-2.5±0.3	0.5±0.4	-0.48±0.01	-1.18±0.02	0.834±0.006	0.833±0.006	0.008±0.005	0.037±0.005
26.5	-2.7±0.3	0.7±0.3	-0.46±0.01	-1.18±0.02	0.849±0.006	0.848±0.006	0.010±0.005	0.040±0.005
29.1	-2.8±0.3	0.7±0.3	-0.42±0.01	-1.18±0.02	0.873±0.006	0.872±0.006	0.010±0.005	0.043±0.005
31.6	-2.8±0.3	0.7±0.3	-0.40±0.01	-1.18±0.02	0.886±0.006	0.885±0.006	0.011±0.005	0.043±0.005
34.1	-2.9±0.3	0.7±0.3	-0.36±0.01	-1.17±0.02	0.900±0.006	0.899±0.006	0.011±0.005	0.045±0.005
36.7	-2.9±0.3	0.7±0.3	-0.35±0.01	-1.18±0.02	0.915±0.006	0.914±0.006	0.012±0.005	0.046±0.005
39.2	-2.9±0.3	0.7±0.3	-0.33±0.01	-1.19±0.02	0.926±0.006	0.925±0.006	0.011±0.005	0.047±0.005
44.3	-2.8±0.3	0.7±0.3	-0.27±0.01	-1.17±0.02	0.949±0.006	0.948±0.006	0.012±0.005	0.047±0.005
49.4	-2.8±0.3	0.7±0.3	-0.23±0.01	-1.18±0.02	0.975±0.006	0.974±0.006	0.012±0.004	0.048±0.005
54.5	-2.8±0.3	0.7±0.2	-0.18±0.01	-1.17±0.02	0.991±0.006	0.990±0.006	0.012±0.004	0.049±0.005
59.5	-2.7±0.3	0.7±0.2	-0.14±0.01	-1.17±0.02	1.012±0.006	1.011±0.006	0.012±0.004	0.048±0.006
64.6	-2.7±0.3	0.7±0.2	-0.11±0.01	-1.18±0.02	1.031±0.006	1.030±0.006	0.012±0.004	0.049±0.006
69.7	-2.7±0.3	0.6±0.2	-0.08±0.01	-1.17±0.02	1.045±0.006	1.043±0.006	0.012±0.004	0.050±0.006
74.8	-2.6±0.3	0.6±0.2	-0.05±0.01	-1.17±0.02	1.058±0.006	1.057±0.006	0.011±0.004	0.049±0.006
79.9	-2.6±0.3	0.6±0.2	-0.03±0.01	-1.16±0.02	1.067±0.006	1.065±0.006	0.010±0.004	0.048±0.006
84.9	-2.5±0.3	0.5±0.2	-0.01±0.01	-1.16±0.02	1.073±0.007	1.072±0.006	0.010±0.004	0.048±0.006
90.0	-2.5±0.3	0.4±0.2	0.00±0.01	-1.16±0.02	1.078±0.007	1.077±0.007	0.008±0.004	0.047±0.006
100.2	-2.4±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.080±0.007	0.008±0.004	0.045±0.006
110.3	-2.4±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.080±0.007	0.007±0.004	0.045±0.006
120.5	-2.4±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.003±0.004	0.045±0.006
130.7	-2.3±0.3	0.1±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.081±0.007	0.002±0.004	0.043±0.006
140.8	-2.2±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.080±0.007	-0.001±0.004	0.042±0.006

Table B.125 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.1±0.3	3.1±0.9	-0.86±0.01	-1.14±0.02	0.528±0.008	0.527±0.008	0.029±0.008	0.019±0.003
4.7	-2.4±0.3	1.2±0.8	-0.82±0.01	-1.14±0.02	0.567±0.008	0.566±0.008	0.012±0.008	0.023±0.003
5.7	-2.3±0.3	0.5±0.7	-0.79±0.01	-1.15±0.02	0.597±0.008	0.596±0.008	0.005±0.007	0.024±0.003
6.7	-2.4±0.3	0.3±0.6	-0.76±0.01	-1.15±0.02	0.625±0.007	0.625±0.007	0.003±0.007	0.027±0.003
7.7	-2.3±0.3	0.3±0.6	-0.72±0.01	-1.14±0.02	0.645±0.007	0.645±0.007	0.003±0.007	0.026±0.004
8.7	-2.3±0.3	0.3±0.6	-0.70±0.01	-1.14±0.02	0.667±0.007	0.666±0.007	0.004±0.007	0.027±0.004
9.8	-2.3±0.3	0.3±0.5	-0.68±0.01	-1.15±0.02	0.688±0.007	0.687±0.007	0.003±0.006	0.027±0.004
10.8	-2.3±0.3	0.3±0.5	-0.65±0.01	-1.15±0.02	0.704±0.007	0.704±0.007	0.004±0.006	0.029±0.004
11.8	-2.3±0.3	0.3±0.5	-0.63±0.01	-1.15±0.02	0.716±0.007	0.716±0.007	0.004±0.006	0.029±0.004
12.8	-2.4±0.3	0.4±0.5	-0.61±0.01	-1.14±0.02	0.728±0.007	0.728±0.007	0.005±0.006	0.031±0.004
13.8	-2.4±0.3	0.4±0.5	-0.60±0.01	-1.15±0.02	0.743±0.007	0.743±0.007	0.006±0.006	0.032±0.004
16.4	-2.7±0.3	0.5±0.4	-0.55±0.01	-1.14±0.02	0.763±0.007	0.762±0.007	0.006±0.006	0.035±0.004
18.9	-2.7±0.3	0.5±0.4	-0.53±0.01	-1.14±0.02	0.782±0.007	0.781±0.007	0.006±0.006	0.037±0.004
21.4	-3.0±0.3	0.6±0.4	-0.50±0.01	-1.14±0.02	0.799±0.007	0.798±0.007	0.008±0.005	0.042±0.004
24.0	-3.2±0.3	0.6±0.4	-0.46±0.01	-1.14±0.02	0.825±0.006	0.824±0.006	0.009±0.005	0.045±0.005
26.5	-3.3±0.3	0.6±0.4	-0.42±0.01	-1.13±0.02	0.841±0.006	0.840±0.006	0.008±0.005	0.049±0.005
29.1	-3.3±0.3	0.7±0.3	-0.40±0.01	-1.13±0.02	0.855±0.006	0.854±0.006	0.010±0.005	0.049±0.005
31.6	-3.4±0.3	0.6±0.3	-0.38±0.01	-1.15±0.02	0.876±0.006	0.874±0.006	0.010±0.005	0.052±0.005
34.1	-3.4±0.3	0.7±0.3	-0.35±0.01	-1.14±0.02	0.889±0.006	0.887±0.006	0.011±0.005	0.053±0.005
36.7	-3.4±0.3	0.7±0.3	-0.32±0.01	-1.12±0.02	0.894±0.006	0.892±0.006	0.011±0.005	0.053±0.005
39.2	-3.4±0.3	0.7±0.3	-0.30±0.01	-1.14±0.02	0.918±0.006	0.916±0.006	0.011±0.005	0.055±0.005
44.3	-3.4±0.3	0.7±0.3	-0.24±0.01	-1.12±0.02	0.935±0.006	0.933±0.006	0.011±0.005	0.056±0.005
49.4	-3.4±0.3	0.7±0.3	-0.22±0.01	-1.14±0.02	0.958±0.006	0.956±0.006	0.012±0.005	0.058±0.005
54.5	-3.4±0.3	0.7±0.3	-0.18±0.01	-1.15±0.02	0.981±0.006	0.979±0.006	0.012±0.004	0.058±0.005
59.5	-3.3±0.3	0.6±0.3	-0.15±0.01	-1.13±0.02	0.994±0.006	0.992±0.006	0.011±0.004	0.058±0.005
64.6	-3.3±0.3	0.6±0.2	-0.11±0.01	-1.13±0.02	1.013±0.006	1.011±0.006	0.011±0.004	0.058±0.006
69.7	-3.2±0.3	0.6±0.2	-0.07±0.01	-1.13±0.02	1.029±0.006	1.027±0.006	0.011±0.004	0.058±0.006
74.8	-3.2±0.3	0.6±0.2	-0.04±0.01	-1.12±0.02	1.038±0.006	1.037±0.006	0.011±0.004	0.057±0.006
79.9	-3.2±0.3	0.6±0.2	-0.03±0.01	-1.12±0.02	1.046±0.006	1.045±0.006	0.010±0.004	0.058±0.006
84.9	-3.1±0.3	0.5±0.2	-0.01±0.01	-1.12±0.02	1.053±0.006	1.051±0.006	0.009±0.004	0.057±0.006
90.0	-3.0±0.3	0.4±0.2	0.00±0.01	-1.12±0.02	1.057±0.006	1.056±0.006	0.008±0.004	0.056±0.006
100.2	-3.0±0.3	0.4±0.2	0.01±0.01	-1.12±0.02	1.061±0.006	1.059±0.006	0.008±0.004	0.055±0.006
110.3	-2.9±0.3	0.4±0.2	0.01±0.01	-1.12±0.02	1.061±0.006	1.060±0.006	0.007±0.004	0.054±0.006
120.5	-2.9±0.3	0.1±0.2	0.01±0.01	-1.12±0.02	1.060±0.006	1.059±0.006	0.002±0.004	0.055±0.006
130.7	-2.9±0.3	0.1±0.2	0.01±0.01	-1.11±0.02	1.059±0.006	1.058±0.006	0.003±0.004	0.054±0.006
140.8	-2.9±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.060±0.006	1.058±0.006	-0.002±0.004	0.053±0.006

Table B.126 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.3±0.3	2.8±0.9	-0.87±0.01	-1.15±0.02	0.520±0.008	0.519±0.008	0.025±0.008	0.012±0.003
4.7	-1.5±0.3	0.8±0.8	-0.84±0.01	-1.16±0.02	0.565±0.008	0.565±0.008	0.008±0.008	0.015±0.003
5.7	-1.7±0.3	0.5±0.7	-0.81±0.01	-1.16±0.02	0.595±0.007	0.594±0.007	0.005±0.007	0.018±0.003
6.7	-1.8±0.3	0.3±0.6	-0.78±0.01	-1.16±0.02	0.621±0.007	0.621±0.007	0.003±0.007	0.019±0.003
7.7	-1.8±0.3	0.3±0.6	-0.75±0.01	-1.16±0.02	0.643±0.007	0.643±0.007	0.003±0.007	0.020±0.004
8.7	-1.9±0.3	0.3±0.6	-0.72±0.01	-1.16±0.02	0.666±0.007	0.666±0.007	0.004±0.006	0.022±0.004
9.8	-1.9±0.3	0.3±0.5	-0.69±0.01	-1.15±0.02	0.684±0.007	0.683±0.007	0.004±0.006	0.023±0.004
10.8	-2.1±0.3	0.3±0.5	-0.67±0.01	-1.17±0.02	0.704±0.007	0.704±0.007	0.004±0.006	0.025±0.004
11.8	-2.0±0.3	0.4±0.5	-0.64±0.01	-1.16±0.02	0.717±0.007	0.716±0.007	0.004±0.006	0.025±0.004
12.8	-2.1±0.3	0.4±0.5	-0.62±0.01	-1.17±0.02	0.736±0.007	0.736±0.007	0.005±0.006	0.027±0.004
13.8	-2.2±0.3	0.4±0.4	-0.61±0.01	-1.16±0.02	0.745±0.007	0.745±0.007	0.006±0.006	0.029±0.004
16.4	-2.5±0.3	0.5±0.4	-0.57±0.01	-1.17±0.02	0.773±0.007	0.773±0.007	0.006±0.006	0.034±0.004
18.9	-2.8±0.3	0.6±0.4	-0.54±0.01	-1.17±0.02	0.794±0.006	0.793±0.006	0.008±0.005	0.039±0.004
21.4	-3.0±0.3	0.5±0.4	-0.51±0.01	-1.17±0.02	0.809±0.006	0.808±0.006	0.008±0.005	0.043±0.004
24.0	-3.2±0.3	0.6±0.4	-0.48±0.01	-1.17±0.02	0.831±0.006	0.829±0.006	0.008±0.005	0.046±0.005
26.5	-3.4±0.3	0.7±0.3	-0.45±0.01	-1.16±0.02	0.844±0.006	0.842±0.006	0.010±0.005	0.050±0.005
29.1	-3.5±0.3	0.6±0.3	-0.42±0.01	-1.17±0.02	0.866±0.006	0.864±0.006	0.009±0.005	0.052±0.005
31.6	-3.5±0.3	0.7±0.3	-0.39±0.01	-1.16±0.02	0.880±0.006	0.879±0.006	0.010±0.005	0.053±0.005
34.1	-3.5±0.3	0.7±0.3	-0.36±0.01	-1.16±0.02	0.896±0.006	0.894±0.006	0.011±0.005	0.055±0.005
36.7	-3.5±0.3	0.6±0.3	-0.34±0.01	-1.17±0.02	0.914±0.006	0.912±0.006	0.010±0.005	0.057±0.005
39.2	-3.6±0.3	0.7±0.3	-0.31±0.01	-1.17±0.02	0.928±0.006	0.927±0.006	0.011±0.005	0.058±0.005
44.3	-3.5±0.3	0.6±0.3	-0.25±0.01	-1.16±0.02	0.951±0.006	0.950±0.006	0.011±0.004	0.058±0.005
49.4	-3.4±0.3	0.6±0.3	-0.21±0.01	-1.16±0.02	0.976±0.006	0.974±0.006	0.011±0.004	0.059±0.005
54.5	-3.4±0.3	0.7±0.3	-0.18±0.01	-1.15±0.02	0.989±0.006	0.987±0.006	0.011±0.004	0.058±0.005
59.5	-3.3±0.3	0.6±0.2	-0.13±0.01	-1.15±0.02	1.009±0.006	1.007±0.006	0.011±0.004	0.058±0.006
64.6	-3.3±0.3	0.6±0.2	-0.11±0.01	-1.16±0.02	1.025±0.006	1.023±0.006	0.011±0.004	0.058±0.006
69.7	-3.3±0.3	0.5±0.2	-0.07±0.01	-1.16±0.02	1.041±0.006	1.040±0.006	0.009±0.004	0.059±0.006
74.8	-3.2±0.3	0.5±0.2	-0.05±0.01	-1.15±0.02	1.050±0.006	1.048±0.006	0.009±0.004	0.058±0.006
79.9	-3.1±0.3	0.5±0.2	-0.02±0.01	-1.14±0.02	1.059±0.006	1.058±0.006	0.009±0.004	0.058±0.006
84.9	-3.1±0.3	0.4±0.2	-0.01±0.01	-1.15±0.02	1.067±0.006	1.066±0.006	0.008±0.004	0.057±0.006
90.0	-3.0±0.3	0.4±0.2	0.00±0.01	-1.14±0.02	1.070±0.006	1.069±0.006	0.008±0.004	0.056±0.006
100.2	-2.9±0.3	0.3±0.2	0.01±0.01	-1.14±0.02	1.072±0.006	1.070±0.006	0.006±0.004	0.055±0.006
110.3	-2.9±0.3	0.2±0.2	0.01±0.01	-1.14±0.02	1.071±0.006	1.070±0.006	0.003±0.004	0.055±0.006
120.5	-2.9±0.3	0.2±0.2	0.01±0.01	-1.14±0.02	1.071±0.006	1.070±0.006	0.003±0.004	0.055±0.006
130.7	-2.9±0.3	0.1±0.2	0.01±0.01	-1.14±0.02	1.071±0.006	1.070±0.006	0.002±0.004	0.053±0.006
140.8	-2.7±0.3	0.0±0.2	0.01±0.01	-1.14±0.02	1.071±0.006	1.070±0.006	-0.001±0.004	0.051±0.006

Table B.127 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.5±0.3	2.3±0.9	-0.85±0.01	-1.13±0.02	0.530±0.008	0.530±0.008	0.022±0.008	0.013±0.003
4.7	-1.5±0.3	0.7±0.8	-0.81±0.01	-1.14±0.02	0.570±0.008	0.570±0.008	0.007±0.008	0.015±0.003
5.7	-1.8±0.3	0.4±0.7	-0.77±0.01	-1.13±0.02	0.599±0.007	0.599±0.007	0.004±0.007	0.019±0.003
6.7	-2.0±0.3	0.3±0.6	-0.74±0.01	-1.14±0.02	0.633±0.007	0.633±0.007	0.004±0.007	0.022±0.003
7.7	-2.2±0.3	0.3±0.6	-0.71±0.01	-1.13±0.02	0.654±0.007	0.653±0.007	0.004±0.007	0.025±0.004
8.7	-2.2±0.3	0.3±0.5	-0.68±0.01	-1.14±0.02	0.677±0.007	0.676±0.007	0.004±0.006	0.027±0.004
9.8	-2.4±0.3	0.3±0.5	-0.65±0.01	-1.14±0.02	0.696±0.007	0.696±0.007	0.004±0.006	0.029±0.004
10.8	-2.4±0.3	0.3±0.5	-0.64±0.01	-1.14±0.02	0.712±0.007	0.711±0.007	0.004±0.006	0.030±0.004
11.8	-2.6±0.3	0.3±0.5	-0.61±0.01	-1.14±0.02	0.727±0.007	0.726±0.007	0.004±0.006	0.033±0.004
12.8	-2.7±0.3	0.3±0.4	-0.60±0.01	-1.15±0.02	0.741±0.007	0.740±0.007	0.004±0.006	0.035±0.004
13.8	-2.7±0.3	0.4±0.4	-0.58±0.01	-1.14±0.02	0.749±0.007	0.748±0.007	0.005±0.006	0.036±0.004
16.4	-3.2±0.3	0.4±0.4	-0.54±0.01	-1.14±0.02	0.772±0.007	0.771±0.007	0.006±0.006	0.043±0.004
18.9	-3.5±0.3	0.5±0.4	-0.51±0.01	-1.14±0.02	0.794±0.006	0.792±0.006	0.006±0.005	0.048±0.004
21.4	-3.6±0.3	0.5±0.4	-0.49±0.01	-1.14±0.02	0.809±0.006	0.807±0.006	0.006±0.005	0.051±0.004
24.0	-4.0±0.3	0.5±0.4	-0.46±0.01	-1.14±0.02	0.825±0.006	0.823±0.006	0.007±0.005	0.057±0.005
26.5	-4.1±0.3	0.5±0.3	-0.43±0.01	-1.13±0.02	0.839±0.006	0.837±0.006	0.007±0.005	0.060±0.005
29.1	-4.2±0.3	0.5±0.3	-0.40±0.01	-1.14±0.02	0.860±0.006	0.858±0.006	0.007±0.005	0.062±0.005
31.6	-4.2±0.3	0.5±0.3	-0.38±0.01	-1.14±0.02	0.873±0.006	0.871±0.006	0.007±0.005	0.064±0.005
34.1	-4.2±0.3	0.5±0.3	-0.34±0.01	-1.13±0.02	0.888±0.006	0.886±0.006	0.008±0.005	0.065±0.005
36.7	-4.3±0.3	0.5±0.3	-0.32±0.01	-1.14±0.02	0.904±0.006	0.901±0.006	0.008±0.005	0.068±0.005
39.2	-4.3±0.3	0.6±0.3	-0.29±0.01	-1.13±0.02	0.917±0.006	0.914±0.006	0.010±0.005	0.068±0.005
44.3	-4.2±0.3	0.7±0.3	-0.25±0.01	-1.13±0.02	0.938±0.006	0.936±0.006	0.011±0.005	0.069±0.005
49.4	-4.2±0.3	0.6±0.3	-0.20±0.01	-1.13±0.02	0.962±0.006	0.959±0.006	0.010±0.004	0.070±0.005
54.5	-4.1±0.3	0.5±0.3	-0.17±0.01	-1.12±0.02	0.977±0.006	0.975±0.006	0.008±0.004	0.070±0.005
59.5	-4.0±0.3	0.5±0.2	-0.14±0.01	-1.13±0.02	0.997±0.006	0.994±0.006	0.009±0.004	0.070±0.006
64.6	-4.0±0.3	0.5±0.2	-0.10±0.01	-1.13±0.02	1.014±0.006	1.011±0.006	0.009±0.004	0.071±0.006
69.7	-3.9±0.3	0.5±0.2	-0.08±0.01	-1.13±0.02	1.027±0.006	1.024±0.006	0.008±0.004	0.071±0.006
74.8	-3.9±0.3	0.4±0.2	-0.04±0.01	-1.11±0.02	1.037±0.006	1.035±0.006	0.008±0.004	0.071±0.006
79.9	-3.8±0.3	0.4±0.2	-0.02±0.01	-1.12±0.02	1.048±0.006	1.045±0.006	0.008±0.004	0.070±0.006
84.9	-3.8±0.3	0.5±0.2	-0.01±0.01	-1.11±0.02	1.051±0.006	1.049±0.006	0.008±0.004	0.069±0.006
90.0	-3.7±0.3	0.4±0.2	0.00±0.01	-1.11±0.02	1.056±0.006	1.053±0.006	0.007±0.004	0.068±0.006
100.2	-3.6±0.3	0.3±0.2	0.01±0.01	-1.11±0.02	1.057±0.006	1.054±0.006	0.006±0.004	0.067±0.006
110.3	-3.6±0.3	0.2±0.2	0.01±0.01	-1.11±0.02	1.056±0.006	1.054±0.006	0.003±0.004	0.066±0.006
120.5	-3.6±0.3	0.2±0.2	0.01±0.01	-1.11±0.02	1.056±0.006	1.054±0.006	0.003±0.004	0.066±0.006
130.7	-3.5±0.3	0.0±0.2	0.01±0.01	-1.10±0.02	1.055±0.006	1.053±0.006	0.000±0.004	0.065±0.006
140.8	-3.5±0.3	-0.1±0.2	0.01±0.01	-1.10±0.02	1.055±0.006	1.053±0.006	-0.001±0.004	0.064±0.006

Table B.128 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.9±0.3	2.7±0.8	-0.83±0.01	-1.14±0.02	0.550±0.008	0.550±0.008	0.026±0.008	0.008±0.003
4.7	-1.1±0.3	0.8±0.7	-0.79±0.01	-1.14±0.02	0.591±0.008	0.591±0.008	0.009±0.007	0.012±0.003
5.7	-1.7±0.3	0.3±0.6	-0.75±0.01	-1.13±0.02	0.616±0.007	0.616±0.007	0.003±0.007	0.018±0.003
6.7	-1.9±0.3	0.3±0.6	-0.72±0.01	-1.14±0.02	0.647±0.007	0.647±0.007	0.004±0.007	0.021±0.004
7.7	-2.0±0.3	0.2±0.5	-0.68±0.01	-1.14±0.02	0.675±0.007	0.675±0.007	0.002±0.006	0.024±0.004
8.7	-2.2±0.3	0.1±0.5	-0.66±0.01	-1.14±0.02	0.697±0.007	0.696±0.007	0.001±0.006	0.027±0.004
9.8	-2.3±0.3	0.3±0.5	-0.63±0.01	-1.14±0.02	0.717±0.007	0.717±0.007	0.004±0.006	0.029±0.004
10.8	-2.5±0.3	0.3±0.5	-0.60±0.01	-1.13±0.02	0.730±0.007	0.729±0.007	0.004±0.006	0.032±0.004
11.8	-2.7±0.3	0.3±0.4	-0.59±0.01	-1.14±0.02	0.742±0.007	0.742±0.007	0.004±0.006	0.035±0.004
12.8	-2.8±0.3	0.3±0.4	-0.57±0.01	-1.14±0.02	0.753±0.007	0.752±0.007	0.004±0.006	0.037±0.004
13.8	-3.0±0.3	0.4±0.4	-0.56±0.01	-1.14±0.02	0.766±0.007	0.765±0.007	0.005±0.006	0.040±0.004
16.4	-3.4±0.3	0.4±0.4	-0.52±0.01	-1.14±0.02	0.784±0.007	0.783±0.007	0.006±0.005	0.047±0.004
18.9	-3.7±0.3	0.5±0.4	-0.49±0.01	-1.13±0.02	0.797±0.006	0.795±0.006	0.006±0.005	0.051±0.004
21.4	-3.9±0.3	0.4±0.4	-0.48±0.01	-1.14±0.02	0.816±0.006	0.814±0.006	0.006±0.005	0.056±0.005
24.0	-4.1±0.3	0.4±0.4	-0.44±0.01	-1.14±0.02	0.832±0.006	0.830±0.006	0.006±0.005	0.060±0.005
26.5	-4.3±0.3	0.5±0.3	-0.42±0.01	-1.14±0.02	0.849±0.006	0.846±0.006	0.007±0.005	0.064±0.005
29.1	-4.4±0.3	0.4±0.3	-0.39±0.01	-1.13±0.02	0.865±0.006	0.862±0.006	0.007±0.005	0.066±0.005
31.6	-4.5±0.3	0.5±0.3	-0.36±0.01	-1.13±0.02	0.877±0.006	0.874±0.006	0.007±0.005	0.069±0.005
34.1	-4.5±0.3	0.5±0.3	-0.34±0.01	-1.13±0.02	0.891±0.006	0.888±0.006	0.007±0.005	0.070±0.005
36.7	-4.5±0.3	0.4±0.3	-0.31±0.01	-1.13±0.02	0.905±0.006	0.902±0.006	0.007±0.005	0.071±0.005
39.2	-4.6±0.3	0.5±0.3	-0.29±0.01	-1.13±0.02	0.917±0.006	0.915±0.006	0.007±0.005	0.073±0.005
44.3	-4.5±0.3	0.5±0.3	-0.24±0.01	-1.12±0.02	0.938±0.006	0.935±0.006	0.008±0.005	0.073±0.005
49.4	-4.4±0.3	0.5±0.3	-0.21±0.01	-1.13±0.02	0.958±0.006	0.955±0.006	0.008±0.004	0.074±0.005
54.5	-4.4±0.3	0.4±0.3	-0.16±0.01	-1.13±0.02	0.982±0.006	0.979±0.006	0.008±0.004	0.075±0.005
59.5	-4.3±0.3	0.4±0.2	-0.13±0.01	-1.12±0.02	0.997±0.006	0.994±0.006	0.008±0.004	0.075±0.006
64.6	-4.3±0.3	0.4±0.2	-0.10±0.01	-1.12±0.02	1.013±0.006	1.010±0.006	0.008±0.004	0.075±0.006
69.7	-4.2±0.3	0.4±0.2	-0.06±0.01	-1.12±0.02	1.027±0.006	1.024±0.006	0.008±0.004	0.076±0.006
74.8	-4.2±0.3	0.4±0.2	-0.04±0.01	-1.11±0.02	1.036±0.006	1.033±0.006	0.008±0.004	0.075±0.006
79.9	-4.0±0.3	0.4±0.2	-0.02±0.01	-1.11±0.02	1.042±0.006	1.040±0.006	0.008±0.004	0.074±0.006
84.9	-4.0±0.3	0.4±0.2	-0.01±0.01	-1.11±0.02	1.049±0.006	1.047±0.006	0.008±0.004	0.074±0.006
90.0	-4.0±0.3	0.4±0.2	0.00±0.01	-1.11±0.02	1.053±0.006	1.050±0.006	0.007±0.004	0.074±0.006
100.2	-3.9±0.3	0.3±0.2	0.01±0.01	-1.10±0.02	1.054±0.006	1.052±0.006	0.006±0.004	0.073±0.006
110.3	-3.9±0.3	0.2±0.2	0.01±0.01	-1.10±0.02	1.054±0.006	1.051±0.006	0.003±0.004	0.071±0.006
120.5	-3.9±0.3	0.1±0.2	0.01±0.01	-1.10±0.02	1.053±0.006	1.050±0.006	0.002±0.004	0.071±0.006
130.7	-3.8±0.3	-0.1±0.2	0.01±0.01	-1.10±0.02	1.053±0.006	1.051±0.006	-0.001±0.004	0.070±0.006
140.8	-3.7±0.3	-0.1±0.2	0.01±0.01	-1.10±0.02	1.052±0.006	1.050±0.006	-0.002±0.004	0.068±0.006

Table B.129 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.9±0.3	2.9±0.8	-0.81±0.01	-1.12±0.02	0.559±0.008	0.558±0.008	0.028±0.008	0.009±0.003
4.7	-1.3±0.3	1.0±0.7	-0.76±0.01	-1.13±0.02	0.606±0.008	0.605±0.008	0.011±0.007	0.014±0.003
5.7	-1.7±0.3	0.3±0.6	-0.73±0.01	-1.12±0.02	0.631±0.007	0.631±0.007	0.004±0.007	0.018±0.003
6.7	-2.0±0.3	0.3±0.6	-0.69±0.01	-1.13±0.02	0.665±0.007	0.665±0.007	0.004±0.007	0.023±0.004
7.7	-2.2±0.3	0.3±0.5	-0.65±0.01	-1.12±0.02	0.687±0.007	0.687±0.007	0.004±0.006	0.027±0.004
8.7	-2.4±0.3	0.1±0.5	-0.62±0.01	-1.13±0.02	0.715±0.007	0.714±0.007	0.002±0.006	0.030±0.004
9.8	-2.5±0.3	0.2±0.5	-0.59±0.01	-1.12±0.02	0.726±0.007	0.726±0.007	0.003±0.006	0.032±0.004
10.8	-2.7±0.3	0.3±0.4	-0.58±0.01	-1.14±0.02	0.748±0.007	0.747±0.007	0.004±0.006	0.035±0.004
11.8	-2.9±0.3	0.3±0.4	-0.56±0.01	-1.13±0.02	0.759±0.007	0.758±0.007	0.004±0.006	0.038±0.004
12.8	-3.0±0.3	0.3±0.4	-0.54±0.01	-1.13±0.02	0.770±0.007	0.769±0.007	0.004±0.006	0.041±0.004
13.8	-3.2±0.3	0.3±0.4	-0.52±0.01	-1.12±0.02	0.775±0.007	0.774±0.007	0.004±0.006	0.044±0.004
16.4	-3.5±0.3	0.4±0.4	-0.50±0.01	-1.12±0.02	0.791±0.007	0.789±0.007	0.005±0.005	0.049±0.004
18.9	-3.9±0.3	0.4±0.4	-0.47±0.01	-1.13±0.02	0.811±0.007	0.809±0.007	0.005±0.005	0.055±0.004
21.4	-4.1±0.3	0.4±0.4	-0.45±0.01	-1.13±0.02	0.826±0.006	0.824±0.006	0.006±0.005	0.059±0.005
24.0	-4.3±0.3	0.3±0.4	-0.42±0.01	-1.12±0.02	0.838±0.006	0.836±0.006	0.005±0.005	0.063±0.005
26.5	-4.5±0.3	0.4±0.3	-0.40±0.01	-1.13±0.02	0.854±0.006	0.852±0.006	0.006±0.005	0.067±0.005
29.1	-4.6±0.3	0.4±0.3	-0.36±0.01	-1.11±0.02	0.864±0.006	0.861±0.006	0.006±0.005	0.069±0.005
31.6	-4.6±0.3	0.4±0.3	-0.34±0.01	-1.12±0.02	0.882±0.006	0.879±0.006	0.007±0.005	0.071±0.005
34.1	-4.6±0.3	0.4±0.3	-0.33±0.01	-1.13±0.02	0.897±0.006	0.894±0.006	0.007±0.005	0.072±0.005
36.7	-4.7±0.3	0.4±0.3	-0.30±0.01	-1.12±0.02	0.906±0.006	0.903±0.006	0.007±0.005	0.074±0.005
39.2	-4.7±0.3	0.4±0.3	-0.27±0.01	-1.12±0.02	0.917±0.006	0.914±0.006	0.007±0.005	0.075±0.005
44.3	-4.7±0.3	0.4±0.3	-0.23±0.01	-1.11±0.02	0.941±0.006	0.938±0.006	0.007±0.005	0.077±0.005
49.4	-4.6±0.3	0.5±0.3	-0.20±0.01	-1.12±0.02	0.959±0.006	0.956±0.006	0.008±0.005	0.077±0.005
54.5	-4.6±0.3	0.4±0.3	-0.16±0.01	-1.11±0.02	0.977±0.006	0.974±0.006	0.007±0.004	0.078±0.005
59.5	-4.5±0.3	0.4±0.3	-0.12±0.01	-1.11±0.02	0.994±0.006	0.991±0.006	0.008±0.004	0.078±0.005
64.6	-4.4±0.3	0.4±0.2	-0.09±0.01	-1.10±0.02	1.008±0.006	1.005±0.006	0.008±0.004	0.078±0.006
69.7	-4.4±0.3	0.4±0.2	-0.05±0.01	-1.10±0.02	1.021±0.006	1.018±0.006	0.008±0.004	0.079±0.006
74.8	-4.3±0.3	0.4±0.2	-0.04±0.01	-1.11±0.02	1.034±0.006	1.031±0.006	0.008±0.004	0.078±0.006
79.9	-4.3±0.3	0.4±0.2	-0.02±0.01	-1.10±0.02	1.043±0.006	1.040±0.006	0.007±0.004	0.078±0.006
84.9	-4.3±0.3	0.4±0.2	0.00±0.01	-1.10±0.02	1.046±0.006	1.043±0.006	0.007±0.004	0.078±0.006
90.0	-4.3±0.3	0.4±0.2	0.00±0.01	-1.10±0.02	1.048±0.006	1.045±0.006	0.007±0.004	0.078±0.006
100.2	-4.2±0.3	0.3±0.2	0.01±0.01	-1.10±0.02	1.050±0.006	1.047±0.006	0.006±0.004	0.076±0.006
110.3	-4.1±0.3	0.1±0.2	0.01±0.01	-1.09±0.02	1.049±0.006	1.047±0.006	0.003±0.004	0.076±0.006
120.5	-4.1±0.3	0.1±0.2	0.01±0.01	-1.09±0.02	1.048±0.006	1.045±0.006	0.001±0.004	0.075±0.006
130.7	-4.0±0.3	-0.1±0.2	0.01±0.01	-1.09±0.02	1.048±0.006	1.046±0.006	-0.001±0.004	0.074±0.006
140.8	-3.9±0.3	-0.1±0.2	0.01±0.01	-1.09±0.02	1.048±0.006	1.046±0.006	-0.003±0.004	0.072±0.006

Table B.130 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.9±0.3	2.7±0.7	-0.78±0.01	-1.12±0.02	0.582±0.008	0.582±0.008	0.027±0.007	0.010±0.003
4.7	-1.5±0.3	1.0±0.6	-0.73±0.01	-1.11±0.02	0.624±0.007	0.623±0.007	0.011±0.007	0.016±0.003
5.7	-1.7±0.3	0.4±0.6	-0.68±0.01	-1.11±0.02	0.656±0.007	0.655±0.007	0.004±0.007	0.019±0.004
6.7	-1.9±0.3	0.3±0.5	-0.65±0.01	-1.13±0.02	0.694±0.007	0.693±0.007	0.004±0.006	0.024±0.004
7.7	-2.4±0.3	0.3±0.5	-0.61±0.01	-1.12±0.02	0.709±0.007	0.708±0.007	0.004±0.006	0.029±0.004
8.7	-2.6±0.3	0.3±0.5	-0.59±0.01	-1.12±0.02	0.730±0.007	0.729±0.007	0.003±0.006	0.033±0.004
9.8	-2.8±0.3	0.2±0.4	-0.56±0.01	-1.12±0.02	0.749±0.007	0.748±0.007	0.003±0.006	0.037±0.004
10.8	-3.0±0.3	0.3±0.4	-0.54±0.01	-1.12±0.02	0.763±0.007	0.762±0.007	0.004±0.006	0.039±0.004
11.8	-3.1±0.3	0.3±0.4	-0.52±0.01	-1.11±0.02	0.770±0.007	0.769±0.007	0.004±0.006	0.042±0.004
12.8	-3.3±0.3	0.3±0.4	-0.51±0.01	-1.13±0.02	0.785±0.007	0.784±0.007	0.004±0.005	0.045±0.004
13.8	-3.5±0.3	0.3±0.4	-0.50±0.01	-1.11±0.02	0.785±0.007	0.784±0.007	0.005±0.005	0.047±0.004
16.4	-3.9±0.3	0.3±0.4	-0.47±0.01	-1.12±0.02	0.805±0.006	0.803±0.006	0.005±0.005	0.055±0.004
18.9	-4.2±0.3	0.3±0.4	-0.45±0.01	-1.12±0.02	0.820±0.006	0.817±0.006	0.005±0.005	0.060±0.005
21.4	-4.5±0.3	0.3±0.4	-0.43±0.01	-1.11±0.02	0.827±0.006	0.825±0.006	0.005±0.005	0.064±0.005
24.0	-4.6±0.3	0.3±0.3	-0.40±0.01	-1.11±0.02	0.843±0.006	0.840±0.006	0.005±0.005	0.067±0.005
26.5	-4.7±0.3	0.3±0.3	-0.38±0.01	-1.12±0.02	0.859±0.006	0.856±0.006	0.005±0.005	0.070±0.005
29.1	-4.8±0.3	0.4±0.3	-0.36±0.01	-1.11±0.02	0.868±0.006	0.865±0.006	0.005±0.005	0.073±0.005
31.6	-4.9±0.3	0.4±0.3	-0.34±0.01	-1.12±0.02	0.882±0.006	0.879±0.006	0.006±0.005	0.075±0.005
34.1	-4.9±0.3	0.4±0.3	-0.31±0.01	-1.11±0.02	0.893±0.006	0.890±0.006	0.006±0.005	0.076±0.005
36.7	-4.9±0.3	0.4±0.3	-0.29±0.01	-1.11±0.02	0.906±0.006	0.903±0.006	0.006±0.005	0.077±0.005
39.2	-4.9±0.3	0.4±0.3	-0.27±0.01	-1.11±0.02	0.917±0.006	0.914±0.006	0.006±0.005	0.079±0.005
44.3	-4.9±0.3	0.4±0.3	-0.22±0.01	-1.10±0.02	0.938±0.006	0.935±0.006	0.006±0.005	0.081±0.005
49.4	-4.9±0.3	0.4±0.3	-0.19±0.01	-1.11±0.02	0.958±0.006	0.954±0.006	0.007±0.004	0.081±0.005
54.5	-4.8±0.3	0.4±0.3	-0.15±0.01	-1.09±0.02	0.969±0.006	0.965±0.006	0.007±0.004	0.082±0.005
59.5	-4.8±0.3	0.4±0.2	-0.12±0.01	-1.11±0.02	0.995±0.006	0.991±0.006	0.007±0.004	0.083±0.005
64.6	-4.7±0.3	0.4±0.2	-0.09±0.01	-1.10±0.02	1.001±0.006	0.997±0.006	0.007±0.004	0.082±0.006
69.7	-4.6±0.3	0.4±0.2	-0.06±0.01	-1.10±0.02	1.018±0.006	1.015±0.006	0.007±0.004	0.082±0.006
74.8	-4.6±0.3	0.4±0.2	-0.03±0.01	-1.09±0.02	1.029±0.006	1.026±0.006	0.007±0.004	0.082±0.006
79.9	-4.5±0.3	0.4±0.2	-0.02±0.01	-1.09±0.02	1.035±0.006	1.032±0.006	0.007±0.004	0.081±0.006
84.9	-4.5±0.3	0.4±0.2	0.00±0.01	-1.08±0.02	1.039±0.006	1.036±0.006	0.007±0.004	0.081±0.006
90.0	-4.5±0.3	0.2±0.2	0.00±0.01	-1.08±0.02	1.042±0.006	1.039±0.006	0.004±0.004	0.081±0.006
100.2	-4.3±0.3	0.2±0.2	0.01±0.01	-1.08±0.02	1.043±0.006	1.040±0.006	0.003±0.004	0.079±0.006
110.3	-4.3±0.3	0.1±0.2	0.01±0.01	-1.08±0.02	1.042±0.006	1.039±0.006	0.003±0.004	0.079±0.006
120.5	-4.3±0.3	-0.1±0.2	0.01±0.01	-1.07±0.02	1.041±0.006	1.038±0.006	-0.001±0.004	0.078±0.006
130.7	-4.3±0.3	-0.2±0.2	0.01±0.01	-1.07±0.02	1.040±0.006	1.037±0.006	-0.004±0.004	0.078±0.006
140.8	-4.1±0.3	-0.3±0.2	0.01±0.01	-1.07±0.02	1.039±0.006	1.036±0.006	-0.005±0.004	0.075±0.006

Table B.131 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-38 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.0±0.3	3.4±0.8	-0.78±0.01	-1.10±0.02	0.565±0.008	0.564±0.008	0.034±0.008	0.010±0.003
4.7	-1.5±0.3	1.2±0.7	-0.71±0.01	-1.09±0.02	0.609±0.007	0.609±0.007	0.013±0.007	0.016±0.003
5.7	-2.1±0.3	0.5±0.6	-0.68±0.01	-1.10±0.02	0.647±0.007	0.646±0.007	0.005±0.007	0.024±0.004
6.7	-2.4±0.3	0.3±0.5	-0.63±0.01	-1.09±0.02	0.679±0.007	0.678±0.007	0.004±0.006	0.028±0.004
7.7	-2.7±0.3	0.3±0.5	-0.60±0.01	-1.11±0.02	0.710±0.007	0.709±0.007	0.004±0.006	0.034±0.004
8.7	-3.0±0.3	0.3±0.5	-0.56±0.01	-1.09±0.02	0.724±0.007	0.723±0.007	0.004±0.006	0.037±0.004
9.8	-3.1±0.3	0.3±0.4	-0.54±0.01	-1.09±0.02	0.744±0.007	0.743±0.007	0.004±0.006	0.041±0.004
10.8	-3.4±0.3	0.3±0.4	-0.52±0.01	-1.10±0.02	0.760±0.007	0.758±0.007	0.004±0.006	0.045±0.004
11.8	-3.5±0.3	0.3±0.4	-0.52±0.01	-1.10±0.02	0.767±0.007	0.766±0.007	0.004±0.006	0.047±0.004
12.8	-3.8±0.3	0.3±0.4	-0.50±0.01	-1.10±0.02	0.774±0.007	0.773±0.007	0.004±0.006	0.051±0.004
13.8	-3.9±0.3	0.3±0.4	-0.49±0.01	-1.11±0.02	0.788±0.007	0.786±0.007	0.004±0.005	0.054±0.004
16.4	-4.3±0.3	0.4±0.4	-0.45±0.01	-1.09±0.02	0.802±0.007	0.799±0.006	0.005±0.005	0.060±0.004
18.9	-4.4±0.3	0.4±0.4	-0.44±0.01	-1.10±0.02	0.810±0.006	0.807±0.006	0.005±0.005	0.063±0.004
21.4	-4.8±0.3	0.3±0.4	-0.43±0.01	-1.10±0.02	0.822±0.006	0.819±0.006	0.005±0.005	0.068±0.005
24.0	-4.8±0.3	0.2±0.4	-0.39±0.01	-1.09±0.02	0.838±0.006	0.835±0.006	0.003±0.005	0.071±0.005
26.5	-4.9±0.3	0.3±0.3	-0.37±0.01	-1.10±0.02	0.856±0.006	0.853±0.006	0.004±0.005	0.073±0.005
29.1	-5.0±0.3	0.3±0.3	-0.36±0.01	-1.11±0.02	0.867±0.006	0.863±0.006	0.005±0.005	0.075±0.005
31.6	-5.1±0.3	0.4±0.3	-0.33±0.01	-1.09±0.02	0.869±0.006	0.865±0.006	0.005±0.005	0.077±0.005
34.1	-5.0±0.3	0.3±0.3	-0.30±0.01	-1.09±0.02	0.888±0.006	0.884±0.006	0.005±0.005	0.077±0.005
36.7	-5.1±0.3	0.4±0.3	-0.27±0.01	-1.08±0.02	0.897±0.006	0.894±0.006	0.006±0.005	0.080±0.005
39.2	-5.0±0.3	0.4±0.3	-0.26±0.01	-1.07±0.02	0.900±0.006	0.897±0.006	0.006±0.005	0.079±0.005
44.3	-5.1±0.3	0.4±0.3	-0.23±0.01	-1.09±0.02	0.929±0.006	0.925±0.006	0.006±0.005	0.082±0.005
49.4	-5.1±0.3	0.4±0.3	-0.20±0.01	-1.09±0.02	0.946±0.006	0.943±0.006	0.006±0.005	0.083±0.005
54.5	-5.1±0.3	0.4±0.3	-0.14±0.01	-1.06±0.02	0.956±0.006	0.952±0.006	0.006±0.004	0.084±0.005
59.5	-4.9±0.3	0.4±0.3	-0.13±0.01	-1.08±0.02	0.977±0.006	0.973±0.006	0.006±0.004	0.084±0.005
64.6	-5.0±0.3	0.4±0.3	-0.09±0.01	-1.05±0.02	0.981±0.006	0.978±0.006	0.006±0.004	0.085±0.005
69.7	-4.9±0.3	0.4±0.2	-0.07±0.01	-1.08±0.02	1.002±0.006	0.998±0.006	0.006±0.004	0.086±0.006
74.8	-4.8±0.3	0.3±0.2	-0.04±0.01	-1.06±0.02	1.009±0.006	1.006±0.006	0.006±0.004	0.085±0.006
79.9	-4.7±0.3	0.3±0.2	-0.02±0.01	-1.06±0.02	1.018±0.006	1.015±0.006	0.006±0.004	0.084±0.006
84.9	-4.7±0.3	0.3±0.2	-0.01±0.01	-1.06±0.02	1.025±0.006	1.021±0.006	0.005±0.004	0.084±0.006
90.0	-4.7±0.3	0.2±0.2	0.00±0.01	-1.05±0.02	1.027±0.006	1.023±0.006	0.003±0.004	0.083±0.006
100.2	-4.6±0.3	0.1±0.2	0.01±0.01	-1.05±0.02	1.027±0.006	1.024±0.006	0.002±0.004	0.083±0.006
110.3	-4.5±0.3	0.1±0.2	0.01±0.01	-1.05±0.02	1.027±0.006	1.024±0.006	0.001±0.004	0.081±0.006
120.5	-4.5±0.3	-0.1±0.2	0.01±0.01	-1.05±0.02	1.026±0.006	1.023±0.006	-0.002±0.004	0.081±0.006
130.7	-4.5±0.3	-0.3±0.2	0.01±0.01	-1.04±0.02	1.026±0.006	1.022±0.006	-0.005±0.004	0.080±0.006
140.8	-4.4±0.3	-0.3±0.2	0.01±0.01	-1.04±0.02	1.025±0.006	1.022±0.006	-0.006±0.004	0.079±0.006

Table B.132 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-32 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.1±0.3	3.4±0.7	-0.74±0.01	-1.09±0.02	0.585±0.008	0.584±0.008	0.035±0.008	0.011±0.003
4.7	-1.8±0.3	1.1±0.6	-0.69±0.01	-1.10±0.02	0.641±0.007	0.640±0.007	0.012±0.007	0.020±0.004
5.7	-2.4±0.3	0.4±0.6	-0.64±0.01	-1.09±0.02	0.665±0.007	0.664±0.007	0.005±0.007	0.027±0.004
6.7	-2.9±0.3	0.3±0.5	-0.60±0.01	-1.10±0.02	0.707±0.007	0.706±0.007	0.004±0.006	0.035±0.004
7.7	-3.1±0.3	0.3±0.5	-0.55±0.01	-1.10±0.02	0.742±0.007	0.741±0.007	0.004±0.006	0.041±0.004
8.7	-3.4±0.3	0.3±0.4	-0.54±0.01	-1.11±0.02	0.753±0.007	0.752±0.007	0.004±0.006	0.045±0.004
9.8	-3.6±0.3	0.4±0.4	-0.50±0.01	-1.11±0.02	0.777±0.007	0.775±0.007	0.005±0.006	0.049±0.004
10.8	-3.8±0.3	0.3±0.4	-0.49±0.01	-1.10±0.02	0.783±0.007	0.781±0.007	0.005±0.006	0.052±0.004
11.8	-4.0±0.3	0.3±0.4	-0.49±0.01	-1.12±0.02	0.795±0.007	0.793±0.007	0.005±0.006	0.056±0.004
12.8	-4.3±0.3	0.3±0.4	-0.47±0.01	-1.11±0.02	0.801±0.007	0.799±0.007	0.005±0.005	0.060±0.004
13.8	-4.4±0.3	0.3±0.4	-0.46±0.01	-1.11±0.02	0.805±0.007	0.803±0.007	0.005±0.005	0.061±0.004
16.4	-4.8±0.3	0.3±0.4	-0.43±0.01	-1.10±0.02	0.817±0.007	0.814±0.007	0.004±0.005	0.068±0.005
18.9	-4.8±0.3	0.1±0.4	-0.41±0.01	-1.10±0.02	0.828±0.007	0.825±0.007	0.001±0.005	0.070±0.005
21.4	-5.1±0.3	0.0±0.4	-0.40±0.01	-1.09±0.02	0.833±0.007	0.830±0.007	0.001±0.005	0.073±0.005
24.0	-5.2±0.3	0.1±0.3	-0.37±0.01	-1.10±0.02	0.854±0.006	0.851±0.006	0.001±0.005	0.077±0.005
26.5	-5.2±0.3	0.0±0.3	-0.35±0.01	-1.10±0.02	0.865±0.006	0.861±0.006	0.000±0.005	0.078±0.005
29.1	-5.2±0.3	0.0±0.3	-0.33±0.01	-1.09±0.02	0.874±0.006	0.871±0.006	0.001±0.005	0.080±0.005
31.6	-5.3±0.3	0.0±0.3	-0.32±0.01	-1.10±0.02	0.883±0.006	0.879±0.006	0.001±0.005	0.081±0.005
34.1	-5.3±0.3	0.1±0.3	-0.29±0.01	-1.09±0.02	0.894±0.006	0.890±0.006	0.001±0.005	0.083±0.005
36.7	-5.3±0.3	0.1±0.3	-0.27±0.01	-1.09±0.02	0.902±0.006	0.898±0.006	0.001±0.005	0.083±0.005
39.2	-5.3±0.3	0.1±0.3	-0.25±0.01	-1.08±0.02	0.912±0.006	0.908±0.006	0.002±0.005	0.085±0.005
44.3	-5.2±0.3	0.1±0.3	-0.21±0.01	-1.08±0.02	0.930±0.006	0.927±0.006	0.002±0.005	0.085±0.005
49.4	-5.2±0.3	0.2±0.3	-0.18±0.01	-1.09±0.02	0.954±0.006	0.950±0.006	0.003±0.005	0.087±0.005
54.5	-5.2±0.3	0.2±0.3	-0.16±0.01	-1.09±0.02	0.967±0.006	0.963±0.006	0.004±0.005	0.088±0.005
59.5	-5.2±0.3	0.3±0.3	-0.11±0.01	-1.08±0.02	0.984±0.006	0.980±0.006	0.005±0.004	0.089±0.005
64.6	-5.1±0.3	0.3±0.3	-0.08±0.01	-1.08±0.02	0.998±0.006	0.994±0.006	0.005±0.004	0.089±0.006
69.7	-5.1±0.3	0.3±0.2	-0.06±0.01	-1.08±0.02	1.008±0.006	1.004±0.006	0.005±0.004	0.090±0.006
74.8	-5.1±0.3	0.2±0.2	-0.04±0.01	-1.07±0.02	1.017±0.006	1.013±0.006	0.004±0.004	0.090±0.006
79.9	-5.0±0.3	0.2±0.2	-0.02±0.01	-1.06±0.02	1.022±0.006	1.018±0.006	0.003±0.004	0.089±0.006
84.9	-4.9±0.3	0.1±0.2	-0.01±0.01	-1.06±0.02	1.027±0.006	1.024±0.006	0.003±0.004	0.089±0.006
90.0	-4.9±0.3	0.1±0.2	0.00±0.01	-1.05±0.02	1.027±0.006	1.024±0.006	0.002±0.004	0.089±0.006
100.2	-4.8±0.3	0.1±0.2	0.01±0.01	-1.05±0.02	1.029±0.006	1.025±0.006	0.002±0.004	0.087±0.006
110.3	-4.8±0.3	-0.1±0.2	0.01±0.01	-1.05±0.02	1.028±0.006	1.025±0.006	-0.001±0.004	0.086±0.006
120.5	-4.8±0.3	-0.2±0.2	0.00±0.01	-1.05±0.02	1.027±0.006	1.024±0.006	-0.003±0.004	0.087±0.006
130.7	-4.7±0.3	-0.3±0.2	0.00±0.01	-1.05±0.02	1.027±0.006	1.024±0.006	-0.006±0.004	0.083±0.006
140.8	-4.6±0.3	-0.5±0.2	0.01±0.01	-1.05±0.02	1.027±0.006	1.023±0.006	-0.009±0.004	0.083±0.006

Table B.133 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-25 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.7±0.3	3.2±0.7	-0.70±0.01	-1.07±0.02	0.606±0.008	0.605±0.008	0.034±0.007	0.018±0.003
4.7	-2.5±0.3	1.0±0.6	-0.64±0.01	-1.07±0.02	0.660±0.007	0.659±0.007	0.012±0.007	0.029±0.004
5.7	-3.2±0.3	0.4±0.5	-0.59±0.01	-1.08±0.02	0.700±0.007	0.699±0.007	0.005±0.006	0.039±0.004
6.7	-3.8±0.3	0.2±0.5	-0.56±0.01	-1.09±0.02	0.730±0.007	0.729±0.007	0.003±0.006	0.048±0.004
7.7	-3.9±0.3	-0.1±0.4	-0.52±0.01	-1.09±0.02	0.755±0.007	0.753±0.007	-0.001±0.006	0.052±0.004
8.7	-4.3±0.3	-0.1±0.4	-0.49±0.01	-1.11±0.02	0.785±0.007	0.783±0.007	-0.001±0.006	0.058±0.004
9.8	-4.4±0.3	0.0±0.4	-0.47±0.01	-1.10±0.02	0.797±0.007	0.794±0.007	-0.001±0.005	0.062±0.004
10.8	-4.6±0.3	0.0±0.4	-0.44±0.01	-1.08±0.02	0.796±0.007	0.793±0.007	-0.001±0.005	0.064±0.004
11.8	-4.8±0.3	0.0±0.4	-0.43±0.01	-1.09±0.02	0.808±0.007	0.806±0.007	0.000±0.005	0.068±0.004
12.8	-4.9±0.3	-0.1±0.4	-0.42±0.01	-1.08±0.02	0.812±0.007	0.809±0.007	-0.001±0.005	0.070±0.005
13.8	-5.0±0.3	-0.1±0.4	-0.42±0.01	-1.08±0.02	0.816±0.007	0.813±0.006	-0.001±0.005	0.071±0.005
16.4	-5.2±0.3	-0.3±0.4	-0.41±0.01	-1.09±0.02	0.824±0.006	0.820±0.006	-0.004±0.005	0.075±0.005
18.9	-5.3±0.3	-0.3±0.4	-0.39±0.01	-1.09±0.02	0.840±0.006	0.837±0.006	-0.004±0.005	0.078±0.005
21.4	-5.5±0.3	-0.4±0.4	-0.36±0.01	-1.07±0.02	0.843±0.006	0.839±0.006	-0.005±0.005	0.080±0.005
24.0	-5.5±0.3	-0.3±0.3	-0.34±0.01	-1.08±0.02	0.859±0.006	0.855±0.006	-0.005±0.005	0.082±0.005
26.5	-5.5±0.3	-0.3±0.3	-0.32±0.01	-1.06±0.02	0.860±0.006	0.856±0.006	-0.005±0.005	0.082±0.005
29.1	-5.6±0.3	-0.3±0.3	-0.30±0.01	-1.08±0.02	0.878±0.006	0.874±0.006	-0.004±0.005	0.086±0.005
31.6	-5.6±0.3	-0.2±0.3	-0.29±0.01	-1.07±0.02	0.886±0.006	0.882±0.006	-0.004±0.005	0.086±0.005
34.1	-5.6±0.3	-0.3±0.3	-0.26±0.01	-1.06±0.02	0.892±0.006	0.888±0.006	-0.004±0.005	0.087±0.005
36.7	-5.5±0.3	-0.2±0.3	-0.25±0.01	-1.06±0.02	0.901±0.006	0.896±0.006	-0.004±0.005	0.087±0.005
39.2	-5.5±0.3	-0.2±0.3	-0.23±0.01	-1.06±0.02	0.909±0.006	0.905±0.006	-0.003±0.005	0.088±0.005
44.3	-5.5±0.3	-0.2±0.3	-0.20±0.01	-1.05±0.02	0.925±0.006	0.921±0.006	-0.003±0.005	0.088±0.005
49.4	-5.5±0.3	-0.1±0.3	-0.17±0.01	-1.06±0.02	0.945±0.006	0.941±0.006	-0.001±0.005	0.090±0.005
54.5	-5.4±0.3	0.0±0.3	-0.13±0.01	-1.05±0.02	0.959±0.006	0.954±0.006	-0.001±0.005	0.091±0.005
59.5	-5.5±0.3	0.0±0.3	-0.10±0.01	-1.05±0.02	0.973±0.006	0.969±0.006	0.000±0.004	0.093±0.005
64.6	-5.4±0.3	0.1±0.3	-0.07±0.01	-1.03±0.02	0.983±0.006	0.979±0.006	0.001±0.004	0.092±0.005
69.7	-5.4±0.3	0.1±0.3	-0.05±0.01	-1.04±0.02	0.993±0.006	0.989±0.006	0.002±0.004	0.093±0.005
74.8	-5.3±0.3	0.1±0.2	-0.02±0.01	-1.02±0.02	1.001±0.006	0.997±0.006	0.001±0.004	0.092±0.006
79.9	-5.2±0.3	0.1±0.2	-0.01±0.01	-1.02±0.02	1.006±0.006	1.002±0.006	0.001±0.004	0.091±0.006
84.9	-5.1±0.3	0.0±0.2	0.00±0.01	-1.03±0.02	1.012±0.006	1.008±0.006	0.000±0.004	0.090±0.006
90.0	-5.1±0.3	0.0±0.2	0.00±0.01	-1.02±0.02	1.013±0.006	1.009±0.006	0.000±0.004	0.091±0.006
100.2	-5.1±0.3	-0.1±0.2	0.01±0.01	-1.02±0.02	1.013±0.006	1.009±0.006	-0.002±0.004	0.090±0.006
110.3	-5.1±0.3	-0.1±0.2	0.01±0.01	-1.02±0.02	1.012±0.006	1.008±0.006	-0.003±0.004	0.091±0.006
120.5	-5.1±0.3	-0.3±0.2	0.00±0.01	-1.02±0.02	1.011±0.006	1.007±0.006	-0.006±0.004	0.089±0.006
130.7	-5.0±0.3	-0.6±0.2	0.01±0.01	-1.01±0.02	1.010±0.006	1.006±0.006	-0.010±0.004	0.088±0.006
140.8	-4.9±0.3	-0.6±0.2	0.01±0.01	-1.01±0.02	1.009±0.006	1.006±0.006	-0.011±0.004	0.087±0.006

Table B.134 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-19 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.7±0.3	2.4±0.7	-0.67±0.01	-1.05±0.02	0.615±0.007	0.613±0.007	0.026±0.007	0.039±0.003
4.7	-4.4±0.3	0.5±0.6	-0.61±0.01	-1.06±0.02	0.671±0.007	0.669±0.007	0.006±0.006	0.052±0.004
5.7	-5.0±0.3	-0.2±0.5	-0.55±0.01	-1.06±0.02	0.714±0.007	0.711±0.007	-0.002±0.006	0.062±0.004
6.7	-5.4±0.3	-0.5±0.4	-0.51±0.01	-1.06±0.02	0.748±0.007	0.744±0.007	-0.006±0.006	0.070±0.004
7.7	-5.6±0.3	-0.5±0.4	-0.48±0.01	-1.07±0.02	0.763±0.007	0.759±0.007	-0.007±0.006	0.075±0.004
8.7	-5.8±0.3	-0.7±0.4	-0.45±0.01	-1.06±0.02	0.782±0.007	0.778±0.007	-0.010±0.006	0.079±0.004
9.8	-5.8±0.3	-0.8±0.4	-0.43±0.01	-1.07±0.02	0.801±0.007	0.797±0.007	-0.011±0.005	0.082±0.004
10.8	-5.9±0.3	-0.8±0.4	-0.41±0.01	-1.06±0.02	0.806±0.007	0.801±0.006	-0.011±0.005	0.082±0.004
11.8	-6.0±0.3	-0.9±0.4	-0.42±0.01	-1.06±0.02	0.803±0.007	0.798±0.006	-0.012±0.005	0.084±0.004
12.8	-6.0±0.3	-0.9±0.4	-0.39±0.01	-1.06±0.02	0.815±0.006	0.810±0.006	-0.012±0.005	0.085±0.005
13.8	-6.0±0.3	-1.0±0.4	-0.39±0.01	-1.07±0.02	0.825±0.006	0.820±0.006	-0.014±0.005	0.086±0.005
16.4	-6.0±0.3	-1.1±0.4	-0.38±0.01	-1.06±0.02	0.826±0.006	0.821±0.006	-0.015±0.005	0.086±0.005
18.9	-6.0±0.3	-1.0±0.4	-0.35±0.01	-1.05±0.02	0.838±0.006	0.834±0.006	-0.015±0.005	0.088±0.005
21.4	-6.0±0.3	-1.0±0.3	-0.34±0.01	-1.06±0.02	0.849±0.006	0.844±0.006	-0.015±0.005	0.088±0.005
24.0	-6.0±0.3	-1.0±0.3	-0.34±0.01	-1.07±0.02	0.856±0.006	0.851±0.006	-0.014±0.005	0.090±0.005
26.5	-6.1±0.3	-0.9±0.3	-0.30±0.01	-1.05±0.02	0.865±0.006	0.860±0.006	-0.014±0.005	0.091±0.005
29.1	-5.9±0.3	-0.9±0.3	-0.29±0.01	-1.06±0.02	0.878±0.006	0.873±0.006	-0.013±0.005	0.091±0.005
31.6	-6.0±0.3	-0.9±0.3	-0.27±0.01	-1.05±0.02	0.883±0.006	0.878±0.006	-0.014±0.005	0.092±0.005
34.1	-5.9±0.3	-0.8±0.3	-0.25±0.01	-1.04±0.02	0.888±0.006	0.883±0.006	-0.013±0.005	0.092±0.005
36.7	-5.9±0.3	-0.8±0.3	-0.24±0.01	-1.04±0.02	0.895±0.006	0.890±0.006	-0.012±0.005	0.092±0.005
39.2	-5.8±0.3	-0.7±0.3	-0.22±0.01	-1.04±0.02	0.903±0.006	0.898±0.006	-0.010±0.005	0.092±0.005
44.3	-5.9±0.3	-0.6±0.3	-0.18±0.01	-1.02±0.02	0.917±0.006	0.912±0.006	-0.010±0.005	0.094±0.005
49.4	-5.8±0.3	-0.5±0.3	-0.16±0.01	-1.03±0.02	0.933±0.006	0.928±0.006	-0.008±0.005	0.094±0.005
54.5	-5.7±0.3	-0.4±0.3	-0.12±0.01	-1.02±0.02	0.945±0.006	0.941±0.006	-0.007±0.005	0.095±0.005
59.5	-5.7±0.3	-0.3±0.3	-0.11±0.01	-1.03±0.02	0.960±0.006	0.955±0.006	-0.005±0.004	0.095±0.005
64.6	-5.7±0.3	-0.2±0.3	-0.07±0.01	-1.00±0.02	0.968±0.006	0.963±0.006	-0.003±0.004	0.097±0.005
69.7	-5.8±0.3	-0.1±0.3	-0.06±0.01	-1.00±0.02	0.970±0.006	0.965±0.006	-0.002±0.004	0.097±0.005
74.8	-5.7±0.3	-0.2±0.3	-0.03±0.01	-0.99±0.02	0.982±0.006	0.978±0.006	-0.004±0.004	0.098±0.005
79.9	-5.6±0.3	-0.2±0.3	-0.02±0.01	-1.00±0.02	0.989±0.006	0.984±0.006	-0.003±0.004	0.096±0.005
84.9	-5.5±0.3	-0.2±0.3	0.00±0.01	-0.99±0.02	0.994±0.006	0.989±0.006	-0.003±0.004	0.096±0.005
90.0	-5.5±0.3	-0.2±0.3	0.00±0.01	-0.98±0.02	0.994±0.006	0.989±0.006	-0.003±0.004	0.096±0.005
100.2	-5.5±0.3	-0.3±0.3	0.01±0.01	-0.98±0.02	0.994±0.006	0.990±0.006	-0.004±0.004	0.095±0.005
110.3	-5.6±0.3	-0.4±0.3	0.01±0.01	-0.98±0.02	0.993±0.006	0.988±0.006	-0.006±0.004	0.096±0.005
120.5	-5.6±0.3	-0.6±0.3	0.01±0.01	-0.98±0.02	0.992±0.006	0.987±0.006	-0.010±0.004	0.096±0.005
130.7	-5.4±0.3	-0.8±0.3	0.01±0.01	-0.97±0.02	0.990±0.006	0.986±0.006	-0.014±0.004	0.093±0.005
140.8	-5.2±0.3	-0.9±0.3	0.01±0.01	-0.97±0.02	0.989±0.006	0.985±0.006	-0.015±0.004	0.090±0.005

Table B.135 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(391 mm,-13 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-7.4±0.3	2.0±0.7	-0.69±0.01	-1.06±0.02	0.610±0.008	0.604±0.007	0.021±0.007	0.079±0.003
4.7	-7.9±0.3	0.3±0.6	-0.64±0.01	-1.07±0.02	0.658±0.007	0.651±0.007	0.004±0.007	0.091±0.004
5.7	-8.1±0.3	-0.6±0.5	-0.58±0.01	-1.05±0.02	0.687±0.007	0.680±0.007	-0.008±0.006	0.097±0.004
6.7	-8.3±0.3	-0.9±0.5	-0.55±0.01	-1.07±0.02	0.717±0.007	0.709±0.007	-0.012±0.006	0.103±0.004
7.7	-8.2±0.3	-1.1±0.5	-0.53±0.01	-1.06±0.02	0.730±0.007	0.722±0.007	-0.014±0.006	0.104±0.004
8.7	-8.1±0.3	-1.2±0.5	-0.52±0.01	-1.06±0.02	0.740±0.007	0.732±0.007	-0.016±0.006	0.105±0.004
9.8	-8.1±0.3	-1.4±0.5	-0.51±0.01	-1.06±0.02	0.742±0.007	0.734±0.007	-0.018±0.006	0.104±0.004
10.8	-7.9±0.3	-1.4±0.5	-0.50±0.01	-1.06±0.02	0.745±0.007	0.738±0.007	-0.019±0.006	0.103±0.004
11.8	-7.8±0.3	-1.4±0.5	-0.50±0.01	-1.05±0.02	0.746±0.007	0.739±0.007	-0.019±0.006	0.101±0.004
12.8	-7.7±0.3	-1.5±0.5	-0.49±0.01	-1.05±0.02	0.748±0.007	0.741±0.007	-0.020±0.006	0.100±0.004
13.8	-7.5±0.3	-1.6±0.4	-0.49±0.01	-1.06±0.02	0.755±0.007	0.748±0.007	-0.021±0.006	0.099±0.004
16.4	-7.5±0.3	-1.7±0.4	-0.46±0.01	-1.05±0.02	0.767±0.007	0.760±0.007	-0.023±0.006	0.099±0.004
18.9	-7.3±0.3	-1.7±0.4	-0.42±0.01	-1.04±0.02	0.786±0.007	0.779±0.007	-0.023±0.006	0.100±0.004
21.4	-7.3±0.3	-1.7±0.4	-0.40±0.01	-1.05±0.02	0.806±0.007	0.799±0.007	-0.024±0.005	0.102±0.004
24.0	-7.2±0.3	-1.8±0.4	-0.37±0.01	-1.04±0.02	0.823±0.007	0.816±0.007	-0.025±0.005	0.103±0.005
26.5	-7.1±0.3	-1.7±0.4	-0.34±0.01	-1.05±0.02	0.845±0.006	0.838±0.006	-0.025±0.005	0.104±0.005
29.1	-7.0±0.3	-1.6±0.3	-0.31±0.01	-1.05±0.02	0.862±0.006	0.855±0.006	-0.024±0.005	0.105±0.005
31.6	-6.8±0.3	-1.6±0.3	-0.29±0.01	-1.05±0.02	0.870±0.006	0.863±0.006	-0.024±0.005	0.104±0.005
34.1	-6.8±0.3	-1.5±0.3	-0.26±0.01	-1.03±0.02	0.880±0.006	0.873±0.006	-0.023±0.005	0.104±0.005
36.7	-6.6±0.3	-1.5±0.3	-0.24±0.01	-1.03±0.02	0.891±0.006	0.885±0.006	-0.023±0.005	0.103±0.005
39.2	-6.6±0.3	-1.5±0.3	-0.22±0.01	-1.03±0.02	0.900±0.006	0.893±0.006	-0.023±0.005	0.103±0.005
44.3	-6.4±0.3	-1.3±0.3	-0.17±0.01	-1.00±0.02	0.910±0.006	0.904±0.006	-0.020±0.005	0.101±0.005
49.4	-6.2±0.3	-1.1±0.3	-0.15±0.01	-0.99±0.02	0.918±0.006	0.913±0.006	-0.018±0.005	0.100±0.005
54.5	-6.2±0.3	-0.8±0.3	-0.12±0.01	-0.99±0.02	0.930±0.006	0.925±0.006	-0.013±0.005	0.101±0.005
59.5	-6.2±0.3	-0.6±0.3	-0.10±0.01	-0.99±0.02	0.945±0.006	0.939±0.006	-0.010±0.005	0.102±0.005
64.6	-6.3±0.3	-0.4±0.3	-0.08±0.01	-0.99±0.02	0.956±0.006	0.950±0.006	-0.007±0.005	0.104±0.005
69.7	-6.3±0.3	-0.4±0.3	-0.05±0.01	-0.98±0.02	0.966±0.006	0.960±0.006	-0.007±0.005	0.106±0.005
74.8	-6.3±0.3	-0.4±0.3	-0.03±0.01	-0.98±0.02	0.973±0.006	0.967±0.006	-0.007±0.004	0.106±0.005
79.9	-6.2±0.3	-0.4±0.3	-0.02±0.01	-0.97±0.02	0.977±0.006	0.972±0.006	-0.007±0.004	0.105±0.005
84.9	-6.0±0.3	-0.4±0.3	-0.01±0.01	-0.97±0.02	0.979±0.006	0.974±0.006	-0.007±0.004	0.103±0.005
90.0	-6.0±0.3	-0.3±0.3	0.00±0.01	-0.96±0.02	0.980±0.006	0.975±0.006	-0.005±0.004	0.102±0.005
100.2	-6.0±0.3	-0.2±0.3	0.00±0.01	-0.96±0.02	0.980±0.006	0.974±0.006	-0.004±0.004	0.103±0.005
110.3	-6.2±0.3	-0.4±0.3	0.00±0.01	-0.96±0.02	0.976±0.006	0.970±0.006	-0.007±0.004	0.105±0.005
120.5	-6.2±0.3	-0.7±0.3	-0.01±0.01	-0.95±0.02	0.974±0.006	0.968±0.006	-0.012±0.004	0.105±0.005
130.7	-5.8±0.3	-1.1±0.3	-0.03±0.01	-0.95±0.02	0.961±0.006	0.956±0.006	-0.019±0.005	0.098±0.005
140.8	-5.8±0.3	-1.0±0.3	-0.02±0.01	-0.95±0.02	0.961±0.006	0.956±0.006	-0.017±0.005	0.097±0.005

Table B.136 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.3±0.3	1.0±0.6	-0.74±0.01	-1.19±0.02	0.674±0.007	0.674±0.007	0.012±0.007	-0.004±0.004
4.7	0.3±0.3	0.4±0.5	-0.70±0.01	-1.17±0.02	0.689±0.007	0.689±0.007	0.005±0.006	-0.004±0.004
5.7	0.2±0.3	0.3±0.5	-0.67±0.01	-1.19±0.02	0.720±0.007	0.720±0.007	0.004±0.006	-0.003±0.004
6.7	0.2±0.3	-0.1±0.5	-0.65±0.01	-1.20±0.02	0.738±0.007	0.738±0.007	-0.001±0.006	-0.002±0.004
7.7	0.2±0.3	0.0±0.4	-0.63±0.01	-1.20±0.02	0.752±0.007	0.752±0.007	0.000±0.006	-0.003±0.004
8.7	0.1±0.3	-0.1±0.4	-0.62±0.01	-1.19±0.02	0.754±0.007	0.754±0.007	-0.001±0.006	-0.002±0.004
9.8	0.0±0.3	-0.1±0.4	-0.59±0.01	-1.19±0.02	0.770±0.007	0.770±0.007	-0.001±0.006	0.000±0.004
10.8	0.1±0.3	-0.1±0.4	-0.58±0.01	-1.19±0.02	0.780±0.007	0.780±0.007	-0.001±0.006	-0.002±0.004
11.8	0.2±0.3	-0.1±0.4	-0.57±0.01	-1.20±0.02	0.795±0.007	0.795±0.007	-0.001±0.006	-0.002±0.004
12.8	0.1±0.3	-0.1±0.4	-0.54±0.01	-1.18±0.02	0.799±0.007	0.799±0.007	-0.001±0.006	-0.002±0.004
13.8	0.2±0.3	-0.1±0.4	-0.54±0.01	-1.20±0.02	0.810±0.007	0.810±0.007	-0.001±0.005	-0.003±0.004
16.4	0.2±0.3	-0.1±0.4	-0.51±0.01	-1.20±0.02	0.830±0.007	0.830±0.007	-0.001±0.005	-0.003±0.005
18.9	0.1±0.3	-0.1±0.4	-0.47±0.01	-1.18±0.02	0.842±0.007	0.842±0.007	-0.002±0.005	-0.002±0.005
21.4	0.2±0.3	-0.1±0.3	-0.45±0.01	-1.20±0.02	0.865±0.007	0.865±0.007	-0.001±0.005	-0.003±0.005
24.0	0.2±0.3	0.0±0.3	-0.41±0.01	-1.20±0.02	0.890±0.007	0.890±0.007	0.001±0.005	-0.002±0.005
26.5	0.1±0.3	0.1±0.3	-0.40±0.01	-1.19±0.02	0.890±0.007	0.890±0.007	0.001±0.005	-0.002±0.005
29.1	0.2±0.3	0.1±0.3	-0.37±0.01	-1.18±0.02	0.904±0.006	0.904±0.006	0.001±0.005	-0.004±0.005
31.6	0.1±0.3	0.1±0.3	-0.33±0.01	-1.18±0.02	0.920±0.006	0.920±0.006	0.001±0.005	-0.002±0.005
34.1	0.2±0.3	0.1±0.3	-0.31±0.01	-1.18±0.02	0.933±0.006	0.933±0.006	0.002±0.005	-0.003±0.005
36.7	0.1±0.3	0.1±0.3	-0.30±0.01	-1.18±0.02	0.941±0.006	0.941±0.006	0.002±0.005	-0.002±0.005
39.2	0.1±0.3	0.1±0.3	-0.27±0.01	-1.20±0.02	0.965±0.006	0.965±0.006	0.002±0.005	-0.002±0.005
44.3	0.1±0.3	0.3±0.3	-0.22±0.01	-1.17±0.02	0.975±0.006	0.975±0.006	0.004±0.005	-0.002±0.005
49.4	0.1±0.3	0.2±0.3	-0.19±0.01	-1.18±0.02	0.994±0.007	0.994±0.007	0.004±0.004	-0.002±0.005
54.5	0.1±0.3	0.3±0.2	-0.15±0.01	-1.19±0.02	1.016±0.007	1.016±0.007	0.006±0.004	-0.002±0.006
59.5	0.1±0.3	0.3±0.2	-0.12±0.01	-1.19±0.02	1.033±0.007	1.033±0.007	0.005±0.004	-0.002±0.006
64.6	0.1±0.3	0.4±0.2	-0.09±0.01	-1.19±0.02	1.052±0.007	1.052±0.007	0.007±0.004	-0.002±0.006
69.7	0.1±0.3	0.4±0.2	-0.06±0.01	-1.19±0.02	1.063±0.007	1.063±0.007	0.007±0.004	-0.003±0.006
74.8	0.1±0.3	0.4±0.2	-0.02±0.01	-1.18±0.02	1.074±0.007	1.074±0.007	0.007±0.004	-0.003±0.006
79.9	0.1±0.3	0.4±0.2	-0.01±0.01	-1.18±0.02	1.082±0.007	1.082±0.007	0.007±0.004	-0.002±0.006
84.9	0.2±0.3	0.4±0.2	0.00±0.01	-1.19±0.02	1.089±0.007	1.089±0.007	0.007±0.004	-0.003±0.006
90.0	0.2±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.090±0.007	0.008±0.004	-0.004±0.006
100.2	0.3±0.3	0.4±0.2	0.01±0.01	-1.19±0.02	1.093±0.007	1.093±0.007	0.007±0.004	-0.006±0.006
110.3	0.3±0.3	0.4±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.094±0.007	0.007±0.004	-0.006±0.006
120.5	0.3±0.3	0.4±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.094±0.007	0.008±0.004	-0.005±0.006
130.7	0.4±0.3	0.4±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.094±0.007	0.007±0.004	-0.007±0.006
140.8	0.3±0.3	0.4±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.094±0.007	0.007±0.004	-0.005±0.006

Table B.137 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.7±0.3	1.0±0.6	-0.74±0.01	-1.19±0.02	0.671±0.007	0.671±0.007	0.012±0.007	-0.009±0.004
4.7	0.6±0.3	0.4±0.5	-0.71±0.01	-1.19±0.02	0.693±0.007	0.693±0.007	0.005±0.006	-0.007±0.004
5.7	0.6±0.3	0.3±0.5	-0.69±0.01	-1.20±0.02	0.714±0.007	0.713±0.007	0.004±0.006	-0.007±0.004
6.7	0.6±0.3	0.0±0.5	-0.67±0.01	-1.20±0.02	0.730±0.007	0.730±0.007	0.000±0.006	-0.007±0.004
7.7	0.5±0.3	-0.1±0.5	-0.65±0.01	-1.19±0.02	0.739±0.007	0.739±0.007	-0.001±0.006	-0.007±0.004
8.7	0.4±0.3	-0.1±0.4	-0.62±0.01	-1.20±0.02	0.758±0.007	0.758±0.007	-0.001±0.006	-0.006±0.004
9.8	0.3±0.3	-0.1±0.4	-0.60±0.01	-1.19±0.02	0.768±0.007	0.768±0.007	-0.001±0.006	-0.005±0.004
10.8	0.3±0.3	-0.1±0.4	-0.59±0.01	-1.19±0.02	0.780±0.007	0.780±0.007	-0.001±0.006	-0.005±0.004
11.8	0.3±0.3	-0.1±0.4	-0.57±0.01	-1.20±0.02	0.792±0.007	0.792±0.007	-0.002±0.006	-0.004±0.004
12.8	0.3±0.3	-0.1±0.4	-0.56±0.01	-1.20±0.02	0.797±0.007	0.797±0.007	-0.001±0.006	-0.004±0.004
13.8	0.1±0.3	-0.1±0.4	-0.54±0.01	-1.18±0.02	0.802±0.007	0.802±0.007	-0.001±0.006	-0.002±0.004
16.4	0.3±0.3	-0.2±0.4	-0.51±0.01	-1.20±0.02	0.830±0.007	0.830±0.007	-0.002±0.005	-0.004±0.005
18.9	0.2±0.3	0.0±0.4	-0.48±0.01	-1.19±0.02	0.846±0.007	0.846±0.007	0.000±0.005	-0.003±0.005
21.4	0.1±0.3	0.0±0.3	-0.45±0.01	-1.20±0.02	0.867±0.007	0.867±0.007	0.000±0.005	-0.002±0.005
24.0	0.1±0.3	0.0±0.3	-0.42±0.01	-1.19±0.02	0.879±0.007	0.879±0.007	0.000±0.005	-0.002±0.005
26.5	0.1±0.3	0.0±0.3	-0.40±0.01	-1.19±0.02	0.894±0.007	0.894±0.007	0.001±0.005	-0.001±0.005
29.1	0.1±0.3	0.0±0.3	-0.37±0.01	-1.19±0.02	0.909±0.007	0.909±0.007	0.001±0.005	-0.001±0.005
31.6	0.1±0.3	0.1±0.3	-0.34±0.01	-1.19±0.02	0.921±0.007	0.921±0.007	0.001±0.005	-0.001±0.005
34.1	0.0±0.3	0.1±0.3	-0.32±0.01	-1.19±0.02	0.934±0.006	0.934±0.006	0.001±0.005	0.000±0.005
36.7	0.0±0.3	0.1±0.3	-0.30±0.01	-1.19±0.02	0.946±0.006	0.946±0.006	0.002±0.005	0.000±0.005
39.2	0.0±0.3	0.1±0.3	-0.27±0.01	-1.19±0.02	0.958±0.006	0.958±0.006	0.002±0.005	0.000±0.005
44.3	-0.1±0.3	0.2±0.3	-0.24±0.01	-1.20±0.02	0.982±0.007	0.982±0.007	0.003±0.005	0.001±0.005
49.4	-0.1±0.3	0.2±0.3	-0.19±0.01	-1.18±0.02	0.997±0.007	0.997±0.007	0.003±0.004	0.001±0.006
54.5	-0.1±0.3	0.2±0.2	-0.15±0.01	-1.19±0.02	1.020±0.007	1.020±0.007	0.004±0.004	0.001±0.006
59.5	-0.1±0.3	0.3±0.2	-0.12±0.01	-1.20±0.02	1.037±0.007	1.037±0.007	0.005±0.004	0.002±0.006
64.6	-0.1±0.3	0.3±0.2	-0.08±0.01	-1.18±0.02	1.048±0.007	1.048±0.007	0.006±0.004	0.002±0.006
69.7	-0.1±0.3	0.4±0.2	-0.06±0.01	-1.20±0.02	1.066±0.007	1.066±0.007	0.007±0.004	0.002±0.006
74.8	-0.1±0.3	0.4±0.2	-0.03±0.01	-1.19±0.02	1.077±0.007	1.077±0.007	0.007±0.004	0.001±0.006
79.9	-0.1±0.3	0.4±0.2	-0.01±0.01	-1.19±0.02	1.084±0.007	1.084±0.007	0.007±0.004	0.001±0.006
84.9	-0.1±0.3	0.4±0.2	0.00±0.01	-1.19±0.02	1.089±0.007	1.089±0.007	0.007±0.004	0.001±0.006
90.0	0.0±0.3	0.4±0.2	0.00±0.01	-1.19±0.02	1.092±0.007	1.092±0.007	0.007±0.004	0.000±0.006
100.2	0.0±0.3	0.3±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.094±0.007	0.006±0.004	0.000±0.006
110.3	0.1±0.3	0.3±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.094±0.007	0.006±0.004	-0.001±0.006
120.5	0.1±0.3	0.2±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.094±0.007	0.005±0.004	-0.002±0.006
130.7	0.2±0.3	0.2±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.094±0.007	0.004±0.004	-0.003±0.006
140.8	0.1±0.3	0.2±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.094±0.007	0.004±0.004	-0.002±0.006

Table B.138 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.4±0.3	1.1±0.6	-0.73±0.01	-1.18±0.02	0.667±0.007	0.667±0.007	0.012±0.007	-0.005±0.004
4.7	0.4±0.3	0.4±0.5	-0.70±0.01	-1.18±0.02	0.692±0.007	0.692±0.007	0.005±0.006	-0.005±0.004
5.7	0.2±0.3	0.3±0.5	-0.68±0.01	-1.18±0.02	0.708±0.007	0.708±0.007	0.004±0.006	-0.003±0.004
6.7	0.2±0.3	0.0±0.5	-0.65±0.01	-1.18±0.02	0.730±0.007	0.730±0.007	0.000±0.006	-0.002±0.004
7.7	0.1±0.3	-0.1±0.5	-0.63±0.01	-1.18±0.02	0.742±0.007	0.742±0.007	-0.001±0.006	-0.001±0.004
8.7	0.1±0.3	-0.1±0.4	-0.62±0.01	-1.19±0.02	0.756±0.007	0.756±0.007	-0.001±0.006	-0.001±0.004
9.8	0.0±0.3	-0.1±0.4	-0.59±0.01	-1.18±0.02	0.769±0.007	0.769±0.007	-0.001±0.006	0.000±0.004
10.8	-0.1±0.3	-0.1±0.4	-0.58±0.01	-1.19±0.02	0.780±0.007	0.780±0.007	-0.002±0.006	0.001±0.004
11.8	-0.1±0.3	-0.1±0.4	-0.56±0.01	-1.20±0.02	0.795±0.007	0.795±0.007	-0.001±0.006	0.002±0.004
12.8	-0.2±0.3	-0.2±0.4	-0.54±0.01	-1.18±0.02	0.800±0.007	0.800±0.007	-0.002±0.006	0.002±0.004
13.8	-0.2±0.3	-0.2±0.4	-0.52±0.01	-1.17±0.02	0.807±0.007	0.807±0.007	-0.002±0.006	0.003±0.004
16.4	-0.2±0.3	-0.1±0.4	-0.50±0.01	-1.18±0.02	0.828±0.007	0.828±0.007	-0.002±0.005	0.003±0.005
18.9	-0.3±0.3	-0.1±0.4	-0.46±0.01	-1.19±0.02	0.850±0.007	0.850±0.007	-0.001±0.005	0.005±0.005
21.4	-0.3±0.3	-0.1±0.3	-0.45±0.01	-1.19±0.02	0.865±0.007	0.865±0.007	-0.001±0.005	0.005±0.005
24.0	-0.4±0.3	0.0±0.3	-0.41±0.01	-1.19±0.02	0.883±0.007	0.882±0.007	0.000±0.005	0.006±0.005
26.5	-0.4±0.3	0.0±0.3	-0.39±0.01	-1.18±0.02	0.891±0.007	0.891±0.007	0.000±0.005	0.006±0.005
29.1	-0.5±0.3	0.0±0.3	-0.36±0.01	-1.19±0.02	0.909±0.007	0.909±0.007	0.001±0.005	0.008±0.005
31.6	-0.5±0.3	0.1±0.3	-0.34±0.01	-1.18±0.02	0.919±0.007	0.919±0.007	0.001±0.005	0.008±0.005
34.1	-0.5±0.3	0.1±0.3	-0.31±0.01	-1.18±0.02	0.933±0.007	0.933±0.007	0.001±0.005	0.009±0.005
36.7	-0.6±0.3	0.1±0.3	-0.29±0.01	-1.18±0.02	0.947±0.007	0.947±0.007	0.002±0.005	0.010±0.005
39.2	-0.6±0.3	0.1±0.3	-0.27±0.01	-1.19±0.02	0.957±0.007	0.957±0.007	0.002±0.005	0.011±0.005
44.3	-0.6±0.3	0.1±0.3	-0.22±0.01	-1.19±0.02	0.981±0.007	0.981±0.007	0.002±0.005	0.011±0.005
49.4	-0.7±0.3	0.1±0.3	-0.19±0.01	-1.18±0.02	0.997±0.007	0.997±0.007	0.002±0.004	0.013±0.006
54.5	-0.7±0.3	0.3±0.2	-0.15±0.01	-1.19±0.02	1.018±0.007	1.018±0.007	0.005±0.004	0.013±0.006
59.5	-0.8±0.3	0.3±0.2	-0.11±0.01	-1.19±0.02	1.036±0.007	1.035±0.007	0.005±0.004	0.014±0.006
64.6	-0.8±0.3	0.4±0.2	-0.07±0.01	-1.17±0.02	1.047±0.007	1.047±0.007	0.006±0.004	0.015±0.006
69.7	-0.8±0.3	0.3±0.2	-0.05±0.01	-1.18±0.02	1.062±0.007	1.062±0.007	0.006±0.004	0.014±0.006
74.8	-0.8±0.3	0.4±0.2	-0.02±0.01	-1.18±0.02	1.074±0.007	1.074±0.007	0.007±0.004	0.015±0.006
79.9	-0.8±0.3	0.4±0.2	-0.01±0.01	-1.18±0.02	1.081±0.007	1.081±0.007	0.007±0.004	0.015±0.006
84.9	-0.8±0.3	0.3±0.2	0.00±0.01	-1.18±0.02	1.085±0.007	1.085±0.007	0.006±0.004	0.015±0.006
90.0	-0.8±0.3	0.3±0.2	0.00±0.01	-1.18±0.02	1.088±0.007	1.088±0.007	0.007±0.004	0.015±0.006
100.2	-0.8±0.3	0.3±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.006±0.004	0.015±0.006
110.3	-0.7±0.3	0.3±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.090±0.007	0.006±0.004	0.013±0.006
120.5	-0.6±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.004±0.004	0.012±0.006
130.7	-0.6±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.089±0.007	0.005±0.004	0.011±0.006
140.8	-0.6±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.090±0.007	0.003±0.004	0.011±0.006

Table B.139 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	1.0±0.3	1.1±0.6	-0.76±0.01	-1.18±0.02	0.647±0.007	0.647±0.007	0.012±0.007	-0.011±0.004
4.7	0.7±0.3	0.5±0.6	-0.73±0.01	-1.18±0.02	0.672±0.007	0.672±0.007	0.006±0.007	-0.008±0.004
5.7	0.6±0.3	0.3±0.5	-0.71±0.01	-1.19±0.02	0.697±0.007	0.697±0.007	0.004±0.006	-0.007±0.004
6.7	0.5±0.3	0.0±0.5	-0.68±0.01	-1.19±0.02	0.715±0.007	0.715±0.007	0.000±0.006	-0.006±0.004
7.7	0.4±0.3	-0.1±0.5	-0.67±0.01	-1.19±0.02	0.726±0.007	0.726±0.007	-0.001±0.006	-0.005±0.004
8.7	0.3±0.3	-0.1±0.5	-0.65±0.01	-1.20±0.02	0.742±0.007	0.742±0.007	-0.001±0.006	-0.004±0.004
9.8	0.2±0.3	-0.1±0.5	-0.62±0.01	-1.18±0.02	0.746±0.007	0.746±0.007	-0.002±0.006	-0.003±0.004
10.8	0.2±0.3	-0.1±0.4	-0.61±0.01	-1.19±0.02	0.760±0.007	0.760±0.007	-0.001±0.006	-0.003±0.004
11.8	0.2±0.3	-0.1±0.4	-0.60±0.01	-1.20±0.02	0.771±0.007	0.771±0.007	-0.001±0.006	-0.002±0.004
12.8	0.1±0.3	-0.1±0.4	-0.57±0.01	-1.18±0.02	0.779±0.007	0.779±0.007	-0.001±0.006	-0.001±0.004
13.8	0.1±0.3	-0.1±0.4	-0.57±0.01	-1.20±0.02	0.791±0.007	0.791±0.007	-0.001±0.006	-0.002±0.004
16.4	0.0±0.3	-0.1±0.4	-0.53±0.01	-1.19±0.02	0.814±0.007	0.814±0.007	-0.001±0.005	0.000±0.004
18.9	-0.1±0.3	0.0±0.4	-0.50±0.01	-1.19±0.02	0.828±0.007	0.828±0.007	0.000±0.005	0.001±0.005
21.4	-0.1±0.3	0.0±0.4	-0.47±0.01	-1.19±0.02	0.847±0.007	0.847±0.007	0.000±0.005	0.002±0.005
24.0	-0.1±0.3	0.0±0.3	-0.44±0.01	-1.19±0.02	0.864±0.007	0.864±0.007	0.000±0.005	0.002±0.005
26.5	-0.2±0.3	0.1±0.3	-0.42±0.01	-1.19±0.02	0.880±0.007	0.880±0.007	0.001±0.005	0.003±0.005
29.1	-0.2±0.3	0.1±0.3	-0.39±0.01	-1.18±0.02	0.890±0.007	0.890±0.007	0.002±0.005	0.004±0.005
31.6	-0.2±0.3	0.1±0.3	-0.36±0.01	-1.19±0.02	0.908±0.007	0.908±0.007	0.002±0.005	0.004±0.005
34.1	-0.3±0.3	0.2±0.3	-0.33±0.01	-1.19±0.02	0.923±0.006	0.923±0.006	0.003±0.005	0.004±0.005
36.7	-0.3±0.3	0.2±0.3	-0.31±0.01	-1.19±0.02	0.935±0.006	0.935±0.006	0.003±0.005	0.006±0.005
39.2	-0.4±0.3	0.3±0.3	-0.29±0.01	-1.19±0.02	0.947±0.006	0.947±0.006	0.004±0.005	0.007±0.005
44.3	-0.5±0.3	0.3±0.3	-0.25±0.01	-1.19±0.02	0.969±0.007	0.969±0.007	0.005±0.005	0.008±0.005
49.4	-0.6±0.3	0.4±0.3	-0.20±0.01	-1.19±0.02	0.991±0.007	0.991±0.007	0.006±0.004	0.010±0.005
54.5	-0.6±0.3	0.4±0.2	-0.16±0.01	-1.18±0.02	1.012±0.007	1.012±0.007	0.006±0.004	0.011±0.006
59.5	-0.7±0.3	0.4±0.2	-0.13±0.01	-1.19±0.02	1.030±0.007	1.030±0.007	0.007±0.004	0.012±0.006
64.6	-0.7±0.3	0.4±0.2	-0.09±0.01	-1.20±0.02	1.051±0.007	1.050±0.007	0.007±0.004	0.012±0.006
69.7	-0.7±0.3	0.4±0.2	-0.06±0.01	-1.19±0.02	1.063±0.007	1.063±0.007	0.007±0.004	0.013±0.006
74.8	-0.8±0.3	0.4±0.2	-0.04±0.01	-1.18±0.02	1.071±0.007	1.071±0.007	0.007±0.004	0.015±0.006
79.9	-0.7±0.3	0.4±0.2	-0.01±0.01	-1.18±0.02	1.080±0.007	1.080±0.007	0.007±0.004	0.014±0.006
84.9	-0.7±0.3	0.4±0.2	-0.01±0.01	-1.19±0.02	1.087±0.007	1.087±0.007	0.007±0.004	0.013±0.006
90.0	-0.7±0.3	0.4±0.2	0.00±0.01	-1.18±0.02	1.090±0.007	1.090±0.007	0.007±0.004	0.013±0.006
100.2	-0.6±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.092±0.007	1.092±0.007	0.007±0.004	0.012±0.006
110.3	-0.5±0.3	0.4±0.2	0.01±0.01	-1.19±0.02	1.093±0.007	1.093±0.007	0.007±0.004	0.010±0.006
120.5	-0.5±0.3	0.2±0.2	0.01±0.01	-1.19±0.02	1.092±0.007	1.092±0.007	0.005±0.004	0.009±0.006
130.7	-0.5±0.3	0.2±0.2	0.01±0.01	-1.19±0.02	1.093±0.007	1.093±0.007	0.004±0.004	0.009±0.006
140.8	-0.4±0.3	0.2±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.094±0.007	0.004±0.004	0.008±0.006

Table B.140 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-114 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	1.7±0.3	1.1±0.6	-0.79±0.01	-1.19±0.02	0.631±0.007	0.631±0.007	0.012±0.007	-0.018±0.003
4.7	1.4±0.3	0.5±0.6	-0.76±0.01	-1.18±0.02	0.649±0.007	0.649±0.007	0.005±0.007	-0.016±0.004
5.7	1.2±0.3	0.4±0.6	-0.75±0.01	-1.19±0.02	0.663±0.007	0.663±0.007	0.004±0.007	-0.014±0.004
6.7	1.2±0.3	0.3±0.5	-0.72±0.01	-1.18±0.02	0.683±0.007	0.683±0.007	0.004±0.007	-0.014±0.004
7.7	0.9±0.3	0.3±0.5	-0.70±0.01	-1.18±0.02	0.693±0.007	0.693±0.007	0.004±0.006	-0.011±0.004
8.7	0.7±0.3	0.3±0.5	-0.68±0.01	-1.19±0.02	0.710±0.007	0.710±0.007	0.004±0.006	-0.009±0.004
9.8	0.7±0.3	0.2±0.5	-0.67±0.01	-1.19±0.02	0.720±0.007	0.720±0.007	0.003±0.006	-0.009±0.004
10.8	0.6±0.3	0.3±0.5	-0.64±0.01	-1.19±0.02	0.737±0.007	0.737±0.007	0.004±0.006	-0.008±0.004
11.8	0.5±0.3	0.3±0.5	-0.63±0.01	-1.18±0.02	0.741±0.007	0.741±0.007	0.004±0.006	-0.007±0.004
12.8	0.4±0.3	0.3±0.4	-0.62±0.01	-1.20±0.02	0.758±0.007	0.758±0.007	0.004±0.006	-0.006±0.004
13.8	0.4±0.3	0.2±0.4	-0.60±0.01	-1.18±0.02	0.764±0.007	0.764±0.007	0.003±0.006	-0.005±0.004
16.4	0.2±0.3	0.3±0.4	-0.57±0.01	-1.19±0.02	0.785±0.007	0.785±0.007	0.004±0.006	-0.003±0.004
18.9	0.1±0.3	0.3±0.4	-0.53±0.01	-1.17±0.02	0.800±0.007	0.800±0.007	0.004±0.006	-0.001±0.004
21.4	0.0±0.3	0.3±0.4	-0.51±0.01	-1.18±0.02	0.823±0.007	0.823±0.007	0.004±0.005	-0.001±0.005
24.0	0.0±0.3	0.4±0.4	-0.48±0.01	-1.19±0.02	0.847±0.007	0.847±0.007	0.005±0.005	0.001±0.005
26.5	0.0±0.3	0.3±0.3	-0.45±0.01	-1.18±0.02	0.859±0.007	0.859±0.007	0.005±0.005	0.001±0.005
29.1	-0.2±0.3	0.4±0.3	-0.42±0.01	-1.19±0.02	0.879±0.007	0.879±0.007	0.006±0.005	0.003±0.005
31.6	-0.2±0.3	0.3±0.3	-0.40±0.01	-1.20±0.02	0.896±0.007	0.896±0.007	0.005±0.005	0.003±0.005
34.1	-0.3±0.3	0.4±0.3	-0.36±0.01	-1.18±0.02	0.907±0.007	0.907±0.007	0.006±0.005	0.005±0.005
36.7	-0.3±0.3	0.4±0.3	-0.33±0.01	-1.18±0.02	0.921±0.006	0.921±0.006	0.006±0.005	0.005±0.005
39.2	-0.4±0.3	0.4±0.3	-0.31±0.01	-1.18±0.02	0.931±0.006	0.931±0.006	0.006±0.005	0.007±0.005
44.3	-0.5±0.3	0.4±0.3	-0.26±0.01	-1.19±0.02	0.964±0.006	0.964±0.006	0.006±0.005	0.008±0.005
49.4	-0.5±0.3	0.4±0.3	-0.21±0.01	-1.18±0.02	0.985±0.007	0.985±0.007	0.006±0.005	0.009±0.005
54.5	-0.6±0.3	0.4±0.3	-0.18±0.01	-1.19±0.02	1.005±0.007	1.005±0.007	0.007±0.004	0.010±0.006
59.5	-0.7±0.3	0.4±0.2	-0.14±0.01	-1.19±0.02	1.024±0.007	1.024±0.007	0.007±0.004	0.012±0.006
64.6	-0.7±0.3	0.4±0.2	-0.10±0.01	-1.18±0.02	1.039±0.007	1.039±0.007	0.007±0.004	0.012±0.006
69.7	-0.7±0.3	0.4±0.2	-0.07±0.01	-1.18±0.02	1.055±0.007	1.055±0.007	0.008±0.004	0.013±0.006
74.8	-0.7±0.3	0.4±0.2	-0.03±0.01	-1.17±0.02	1.065±0.007	1.065±0.007	0.007±0.004	0.013±0.006
79.9	-0.7±0.3	0.4±0.2	-0.02±0.01	-1.18±0.02	1.077±0.007	1.076±0.007	0.007±0.004	0.013±0.006
84.9	-0.7±0.3	0.4±0.2	-0.01±0.01	-1.18±0.02	1.083±0.007	1.083±0.007	0.008±0.004	0.013±0.006
90.0	-0.7±0.3	0.4±0.2	0.00±0.01	-1.18±0.02	1.086±0.007	1.086±0.007	0.008±0.004	0.013±0.006
100.2	-0.6±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.090±0.007	0.008±0.004	0.012±0.006
110.3	-0.5±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.007±0.004	0.010±0.006
120.5	-0.5±0.3	0.3±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.006±0.004	0.010±0.006
130.7	-0.4±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.004±0.004	0.008±0.006
140.8	-0.4±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.090±0.007	0.004±0.004	0.008±0.006

Table B.141 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.9±0.3	1.4±0.7	-0.80±0.01	-1.17±0.02	0.610±0.008	0.609±0.008	0.014±0.007	-0.031±0.003
4.7	2.9±0.3	0.5±0.6	-0.77±0.01	-1.17±0.02	0.630±0.008	0.629±0.008	0.006±0.007	-0.032±0.003
5.7	2.4±0.3	0.4±0.6	-0.75±0.01	-1.18±0.02	0.650±0.007	0.650±0.007	0.004±0.007	-0.027±0.004
6.7	2.2±0.3	0.3±0.6	-0.73±0.01	-1.17±0.02	0.663±0.007	0.662±0.007	0.003±0.007	-0.026±0.004
7.7	2.2±0.3	0.3±0.6	-0.71±0.01	-1.17±0.02	0.676±0.007	0.676±0.007	0.003±0.007	-0.025±0.004
8.7	1.8±0.3	0.2±0.5	-0.70±0.01	-1.17±0.02	0.689±0.007	0.688±0.007	0.002±0.006	-0.022±0.004
9.8	1.6±0.3	0.2±0.5	-0.68±0.01	-1.17±0.02	0.701±0.007	0.701±0.007	0.002±0.006	-0.020±0.004
10.8	1.4±0.3	0.1±0.5	-0.67±0.01	-1.17±0.02	0.710±0.007	0.710±0.007	0.002±0.006	-0.017±0.004
11.8	1.2±0.3	0.1±0.5	-0.66±0.01	-1.18±0.02	0.724±0.007	0.724±0.007	0.001±0.006	-0.015±0.004
12.8	1.0±0.3	0.3±0.5	-0.63±0.01	-1.17±0.02	0.737±0.007	0.737±0.007	0.004±0.006	-0.013±0.004
13.8	0.9±0.3	0.3±0.5	-0.61±0.01	-1.17±0.02	0.748±0.007	0.748±0.007	0.004±0.006	-0.012±0.004
16.4	0.7±0.3	0.3±0.4	-0.59±0.01	-1.18±0.02	0.770±0.007	0.770±0.007	0.004±0.006	-0.009±0.004
18.9	0.5±0.3	0.3±0.4	-0.55±0.01	-1.17±0.02	0.789±0.007	0.789±0.007	0.005±0.006	-0.007±0.004
21.4	0.3±0.3	0.3±0.4	-0.51±0.01	-1.16±0.02	0.807±0.007	0.807±0.007	0.005±0.006	-0.004±0.004
24.0	0.1±0.3	0.4±0.4	-0.48±0.01	-1.17±0.02	0.832±0.007	0.832±0.007	0.005±0.005	-0.002±0.005
26.5	-0.1±0.3	0.4±0.4	-0.46±0.01	-1.17±0.02	0.842±0.007	0.842±0.007	0.006±0.005	0.001±0.005
29.1	-0.1±0.3	0.4±0.3	-0.43±0.01	-1.17±0.02	0.860±0.007	0.860±0.007	0.006±0.005	0.002±0.005
31.6	-0.2±0.3	0.4±0.3	-0.40±0.01	-1.17±0.02	0.879±0.007	0.879±0.007	0.006±0.005	0.003±0.005
34.1	-0.3±0.3	0.4±0.3	-0.37±0.01	-1.17±0.02	0.895±0.007	0.895±0.007	0.006±0.005	0.005±0.005
36.7	-0.4±0.3	0.4±0.3	-0.35±0.01	-1.17±0.02	0.906±0.007	0.906±0.007	0.006±0.005	0.006±0.005
39.2	-0.5±0.3	0.4±0.3	-0.33±0.01	-1.18±0.02	0.925±0.007	0.925±0.007	0.006±0.005	0.008±0.005
44.3	-0.6±0.3	0.4±0.3	-0.28±0.01	-1.17±0.02	0.943±0.007	0.943±0.007	0.006±0.005	0.009±0.005
49.4	-0.6±0.3	0.4±0.3	-0.23±0.01	-1.16±0.02	0.963±0.007	0.963±0.007	0.006±0.005	0.011±0.005
54.5	-0.7±0.3	0.4±0.3	-0.18±0.01	-1.16±0.02	0.989±0.007	0.989±0.007	0.007±0.005	0.011±0.005
59.5	-0.7±0.3	0.4±0.3	-0.15±0.01	-1.16±0.02	1.005±0.007	1.005±0.007	0.007±0.004	0.012±0.006
64.6	-0.8±0.3	0.4±0.2	-0.11±0.01	-1.17±0.02	1.027±0.007	1.027±0.007	0.007±0.004	0.014±0.006
69.7	-0.8±0.3	0.4±0.2	-0.08±0.01	-1.17±0.02	1.047±0.007	1.047±0.007	0.007±0.004	0.014±0.006
74.8	-0.8±0.3	0.4±0.2	-0.04±0.01	-1.16±0.02	1.056±0.007	1.056±0.007	0.007±0.004	0.014±0.006
79.9	-0.7±0.3	0.4±0.2	-0.03±0.01	-1.17±0.02	1.068±0.007	1.068±0.007	0.007±0.004	0.013±0.006
84.9	-0.7±0.3	0.4±0.2	-0.01±0.01	-1.16±0.02	1.072±0.007	1.072±0.007	0.007±0.004	0.013±0.006
90.0	-0.7±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.079±0.007	1.079±0.007	0.007±0.004	0.013±0.006
100.2	-0.6±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.007±0.004	0.011±0.006
110.3	-0.6±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.083±0.007	1.083±0.007	0.007±0.004	0.011±0.006
120.5	-0.5±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.007±0.004	0.010±0.006
130.7	-0.6±0.3	0.3±0.2	0.01±0.01	-1.17±0.02	1.083±0.007	1.083±0.007	0.006±0.004	0.011±0.006
140.8	-0.5±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.004±0.004	0.010±0.006

Table B.142 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-95 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.0±0.3	1.1±0.7	-0.79±0.01	-1.18±0.02	0.623±0.008	0.622±0.008	0.012±0.007	-0.032±0.003
4.7	2.7±0.3	0.5±0.6	-0.76±0.01	-1.17±0.02	0.639±0.007	0.638±0.007	0.006±0.007	-0.031±0.004
5.7	2.5±0.3	0.3±0.6	-0.74±0.01	-1.18±0.02	0.660±0.007	0.659±0.007	0.003±0.007	-0.029±0.004
6.7	2.3±0.3	0.3±0.6	-0.73±0.01	-1.20±0.02	0.679±0.007	0.679±0.007	0.004±0.007	-0.027±0.004
7.7	2.1±0.3	0.1±0.5	-0.71±0.01	-1.18±0.02	0.688±0.007	0.687±0.007	0.002±0.006	-0.025±0.004
8.7	1.8±0.3	0.0±0.5	-0.69±0.01	-1.18±0.02	0.701±0.007	0.700±0.007	0.000±0.006	-0.022±0.004
9.8	1.6±0.3	-0.1±0.5	-0.68±0.01	-1.19±0.02	0.715±0.007	0.714±0.007	-0.002±0.006	-0.020±0.004
10.8	1.4±0.3	-0.1±0.5	-0.65±0.01	-1.17±0.02	0.718±0.007	0.718±0.007	-0.001±0.006	-0.018±0.004
11.8	1.2±0.3	0.0±0.5	-0.65±0.01	-1.18±0.02	0.730±0.007	0.729±0.007	0.000±0.006	-0.015±0.004
12.8	1.0±0.3	0.0±0.5	-0.62±0.01	-1.17±0.02	0.747±0.007	0.747±0.007	0.000±0.006	-0.013±0.004
13.8	0.9±0.3	0.0±0.4	-0.61±0.01	-1.18±0.02	0.757±0.007	0.757±0.007	0.000±0.006	-0.012±0.004
16.4	0.6±0.3	0.0±0.4	-0.57±0.01	-1.17±0.02	0.777±0.007	0.777±0.007	0.000±0.006	-0.009±0.004
18.9	0.4±0.3	0.3±0.4	-0.54±0.01	-1.19±0.02	0.802±0.007	0.802±0.007	0.004±0.006	-0.006±0.004
21.4	0.2±0.3	0.3±0.4	-0.52±0.01	-1.19±0.02	0.819±0.007	0.819±0.007	0.004±0.005	-0.003±0.005
24.0	-0.1±0.3	0.3±0.4	-0.48±0.01	-1.18±0.02	0.835±0.007	0.835±0.007	0.005±0.005	0.002±0.005
26.5	-0.3±0.3	0.3±0.3	-0.45±0.01	-1.18±0.02	0.854±0.007	0.854±0.007	0.005±0.005	0.004±0.005
29.1	-0.3±0.3	0.4±0.3	-0.44±0.01	-1.19±0.02	0.870±0.007	0.870±0.007	0.005±0.005	0.004±0.005
31.6	-0.4±0.3	0.4±0.3	-0.41±0.01	-1.19±0.02	0.881±0.007	0.881±0.007	0.006±0.005	0.006±0.005
34.1	-0.5±0.3	0.4±0.3	-0.38±0.01	-1.17±0.02	0.892±0.007	0.892±0.007	0.006±0.005	0.008±0.005
36.7	-0.7±0.3	0.4±0.3	-0.35±0.01	-1.17±0.02	0.909±0.006	0.909±0.006	0.006±0.005	0.010±0.005
39.2	-0.7±0.3	0.4±0.3	-0.34±0.01	-1.18±0.02	0.921±0.006	0.921±0.006	0.006±0.005	0.011±0.005
44.3	-0.8±0.3	0.4±0.3	-0.27±0.01	-1.17±0.02	0.948±0.006	0.948±0.006	0.006±0.005	0.013±0.005
49.4	-0.8±0.3	0.4±0.3	-0.23±0.01	-1.19±0.02	0.977±0.006	0.977±0.006	0.007±0.005	0.014±0.005
54.5	-0.9±0.3	0.4±0.3	-0.19±0.01	-1.18±0.02	0.994±0.007	0.994±0.007	0.006±0.004	0.015±0.005
59.5	-0.9±0.3	0.4±0.2	-0.15±0.01	-1.18±0.02	1.014±0.007	1.014±0.007	0.007±0.004	0.016±0.006
64.6	-0.9±0.3	0.4±0.2	-0.11±0.01	-1.18±0.02	1.035±0.007	1.035±0.007	0.007±0.004	0.017±0.006
69.7	-1.0±0.3	0.4±0.2	-0.08±0.01	-1.17±0.02	1.048±0.007	1.048±0.007	0.007±0.004	0.019±0.006
74.8	-0.9±0.3	0.4±0.2	-0.05±0.01	-1.18±0.02	1.063±0.007	1.063±0.007	0.007±0.004	0.017±0.006
79.9	-0.9±0.3	0.4±0.2	-0.03±0.01	-1.18±0.02	1.073±0.007	1.072±0.007	0.007±0.004	0.017±0.006
84.9	-0.9±0.3	0.4±0.2	-0.01±0.01	-1.17±0.02	1.079±0.007	1.079±0.007	0.007±0.004	0.016±0.006
90.0	-0.8±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.083±0.007	1.083±0.007	0.007±0.004	0.016±0.006
100.2	-0.8±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.007±0.004	0.014±0.006
110.3	-0.7±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.088±0.007	0.007±0.004	0.013±0.006
120.5	-0.7±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.088±0.007	0.004±0.004	0.012±0.006
130.7	-0.7±0.3	0.3±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.088±0.007	0.005±0.004	0.012±0.006
140.8	-0.6±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.088±0.007	0.004±0.004	0.012±0.006

Table B.143 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.4±0.3	1.1±0.7	-0.80±0.01	-1.18±0.02	0.619±0.008	0.617±0.008	0.012±0.007	-0.037±0.003
4.7	3.2±0.3	0.5±0.6	-0.77±0.01	-1.17±0.02	0.639±0.007	0.638±0.007	0.006±0.007	-0.035±0.004
5.7	2.9±0.3	0.3±0.6	-0.73±0.01	-1.17±0.02	0.657±0.007	0.656±0.007	0.003±0.007	-0.033±0.004
6.7	2.6±0.3	0.3±0.6	-0.73±0.01	-1.19±0.02	0.674±0.007	0.674±0.007	0.004±0.007	-0.030±0.004
7.7	2.4±0.3	0.1±0.5	-0.70±0.01	-1.17±0.02	0.686±0.007	0.686±0.007	0.001±0.006	-0.028±0.004
8.7	2.1±0.3	-0.1±0.5	-0.69±0.01	-1.18±0.02	0.696±0.007	0.696±0.007	-0.002±0.006	-0.025±0.004
9.8	1.8±0.3	-0.2±0.5	-0.68±0.01	-1.18±0.02	0.708±0.007	0.707±0.007	-0.002±0.006	-0.022±0.004
10.8	1.7±0.3	-0.1±0.5	-0.66±0.01	-1.18±0.02	0.726±0.007	0.726±0.007	-0.001±0.006	-0.021±0.004
11.8	1.4±0.3	-0.1±0.5	-0.64±0.01	-1.18±0.02	0.733±0.007	0.733±0.007	-0.001±0.006	-0.018±0.004
12.8	1.3±0.3	-0.1±0.5	-0.63±0.01	-1.18±0.02	0.742±0.007	0.741±0.007	-0.001±0.006	-0.017±0.004
13.8	1.2±0.3	-0.1±0.4	-0.61±0.01	-1.18±0.02	0.756±0.007	0.755±0.007	-0.001±0.006	-0.015±0.004
16.4	0.8±0.3	0.0±0.4	-0.58±0.01	-1.18±0.02	0.777±0.007	0.777±0.007	0.000±0.006	-0.011±0.004
18.9	0.5±0.3	0.1±0.4	-0.54±0.01	-1.18±0.02	0.800±0.007	0.800±0.007	0.002±0.006	-0.008±0.004
21.4	0.3±0.3	0.3±0.4	-0.51±0.01	-1.19±0.02	0.824±0.007	0.824±0.007	0.004±0.005	-0.005±0.005
24.0	0.1±0.3	0.3±0.4	-0.48±0.01	-1.18±0.02	0.834±0.007	0.834±0.007	0.004±0.005	-0.002±0.005
26.5	0.0±0.3	0.3±0.3	-0.45±0.01	-1.18±0.02	0.854±0.007	0.854±0.007	0.005±0.005	0.000±0.005
29.1	-0.2±0.3	0.4±0.3	-0.42±0.01	-1.18±0.02	0.871±0.007	0.871±0.007	0.006±0.005	0.003±0.005
31.6	-0.3±0.3	0.4±0.3	-0.41±0.01	-1.20±0.02	0.886±0.007	0.886±0.007	0.006±0.005	0.004±0.005
34.1	-0.5±0.3	0.4±0.3	-0.37±0.01	-1.17±0.02	0.894±0.007	0.894±0.007	0.006±0.005	0.007±0.005
36.7	-0.5±0.3	0.4±0.3	-0.34±0.01	-1.16±0.02	0.907±0.006	0.907±0.006	0.006±0.005	0.009±0.005
39.2	-0.6±0.3	0.3±0.3	-0.33±0.01	-1.18±0.02	0.924±0.006	0.924±0.006	0.006±0.005	0.009±0.005
44.3	-0.6±0.3	0.3±0.3	-0.27±0.01	-1.18±0.02	0.952±0.006	0.952±0.006	0.005±0.005	0.010±0.005
49.4	-0.8±0.3	0.4±0.3	-0.23±0.01	-1.18±0.02	0.974±0.006	0.974±0.006	0.006±0.005	0.014±0.005
54.5	-0.9±0.3	0.3±0.3	-0.18±0.01	-1.17±0.02	0.993±0.007	0.993±0.007	0.006±0.004	0.016±0.005
59.5	-0.9±0.3	0.4±0.2	-0.14±0.01	-1.17±0.02	1.013±0.007	1.013±0.007	0.007±0.004	0.016±0.006
64.6	-1.0±0.3	0.4±0.2	-0.10±0.01	-1.16±0.02	1.028±0.007	1.028±0.007	0.007±0.004	0.018±0.006
69.7	-0.9±0.3	0.3±0.2	-0.07±0.01	-1.16±0.02	1.045±0.007	1.045±0.007	0.006±0.004	0.017±0.006
74.8	-0.9±0.3	0.4±0.2	-0.06±0.01	-1.18±0.02	1.060±0.007	1.060±0.007	0.007±0.004	0.016±0.006
79.9	-0.9±0.3	0.4±0.2	-0.03±0.01	-1.17±0.02	1.068±0.007	1.068±0.007	0.007±0.004	0.016±0.006
84.9	-0.8±0.3	0.3±0.2	-0.01±0.01	-1.17±0.02	1.077±0.007	1.077±0.007	0.005±0.004	0.016±0.006
90.0	-0.8±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.084±0.007	1.083±0.007	0.007±0.004	0.014±0.006
100.2	-0.7±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.004±0.004	0.012±0.006
110.3	-0.6±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.005±0.004	0.011±0.006
120.5	-0.5±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.087±0.007	1.087±0.007	0.004±0.004	0.010±0.006
130.7	-0.5±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.088±0.007	1.088±0.007	0.003±0.004	0.010±0.006
140.8	-0.5±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.088±0.007	1.088±0.007	0.004±0.004	0.010±0.006

Table B.144 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-83 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.8±0.3	1.2±0.7	-0.80±0.01	-1.18±0.02	0.614±0.008	0.613±0.008	0.012±0.007	-0.040±0.003
4.7	3.4±0.3	0.5±0.6	-0.77±0.01	-1.17±0.02	0.636±0.007	0.635±0.007	0.005±0.007	-0.037±0.004
5.7	3.2±0.3	0.3±0.6	-0.75±0.01	-1.18±0.02	0.650±0.007	0.649±0.007	0.004±0.007	-0.037±0.004
6.7	2.8±0.3	0.3±0.6	-0.73±0.01	-1.17±0.02	0.661±0.007	0.661±0.007	0.004±0.007	-0.033±0.004
7.7	2.5±0.3	0.2±0.6	-0.72±0.01	-1.17±0.02	0.674±0.007	0.673±0.007	0.003±0.007	-0.030±0.004
8.7	2.3±0.3	0.1±0.5	-0.70±0.01	-1.18±0.02	0.692±0.007	0.691±0.007	0.001±0.006	-0.028±0.004
9.8	2.1±0.3	0.1±0.5	-0.68±0.01	-1.18±0.02	0.706±0.007	0.706±0.007	0.002±0.006	-0.026±0.004
10.8	1.9±0.3	0.1±0.5	-0.67±0.01	-1.17±0.02	0.705±0.007	0.705±0.007	0.001±0.006	-0.023±0.004
11.8	1.5±0.3	0.0±0.5	-0.65±0.01	-1.17±0.02	0.723±0.007	0.723±0.007	0.000±0.006	-0.019±0.004
12.8	1.4±0.3	0.1±0.5	-0.64±0.01	-1.18±0.02	0.736±0.007	0.735±0.007	0.001±0.006	-0.018±0.004
13.8	1.3±0.3	0.0±0.5	-0.62±0.01	-1.17±0.02	0.745±0.007	0.745±0.007	0.000±0.006	-0.016±0.004
16.4	0.9±0.3	0.1±0.4	-0.59±0.01	-1.18±0.02	0.771±0.007	0.771±0.007	0.001±0.006	-0.012±0.004
18.9	0.6±0.3	0.2±0.4	-0.55±0.01	-1.18±0.02	0.792±0.007	0.792±0.007	0.003±0.006	-0.008±0.004
21.4	0.4±0.3	0.2±0.4	-0.51±0.01	-1.17±0.02	0.813±0.007	0.813±0.007	0.003±0.005	-0.006±0.004
24.0	0.1±0.3	0.3±0.4	-0.49±0.01	-1.18±0.02	0.829±0.007	0.829±0.007	0.004±0.005	-0.002±0.005
26.5	0.0±0.3	0.3±0.4	-0.46±0.01	-1.18±0.02	0.848±0.007	0.848±0.007	0.005±0.005	0.001±0.005
29.1	-0.3±0.3	0.3±0.3	-0.43±0.01	-1.18±0.02	0.867±0.007	0.867±0.007	0.005±0.005	0.004±0.005
31.6	-0.4±0.3	0.4±0.3	-0.40±0.01	-1.18±0.02	0.883±0.007	0.883±0.007	0.005±0.005	0.006±0.005
34.1	-0.5±0.3	0.4±0.3	-0.38±0.01	-1.16±0.02	0.884±0.007	0.884±0.007	0.006±0.005	0.008±0.005
36.7	-0.6±0.3	0.3±0.3	-0.35±0.01	-1.17±0.02	0.907±0.006	0.907±0.006	0.006±0.005	0.009±0.005
39.2	-0.7±0.3	0.4±0.3	-0.33±0.01	-1.18±0.02	0.924±0.006	0.924±0.006	0.006±0.005	0.011±0.005
44.3	-0.8±0.3	0.4±0.3	-0.28±0.01	-1.18±0.02	0.951±0.006	0.951±0.006	0.006±0.005	0.013±0.005
49.4	-0.9±0.3	0.3±0.3	-0.23±0.01	-1.15±0.02	0.962±0.006	0.961±0.006	0.005±0.005	0.015±0.005
54.5	-0.9±0.3	0.3±0.3	-0.19±0.01	-1.17±0.02	0.989±0.007	0.989±0.006	0.005±0.004	0.016±0.005
59.5	-1.0±0.3	0.3±0.2	-0.15±0.01	-1.18±0.02	1.012±0.007	1.012±0.007	0.006±0.004	0.017±0.006
64.6	-1.0±0.3	0.3±0.2	-0.11±0.01	-1.17±0.02	1.030±0.007	1.030±0.007	0.006±0.004	0.018±0.006
69.7	-0.9±0.3	0.2±0.2	-0.08±0.01	-1.17±0.02	1.045±0.007	1.045±0.007	0.003±0.004	0.017±0.006
74.8	-0.9±0.3	0.3±0.2	-0.04±0.01	-1.16±0.02	1.059±0.007	1.058±0.007	0.005±0.004	0.017±0.006
79.9	-0.9±0.3	0.3±0.2	-0.03±0.01	-1.17±0.02	1.069±0.007	1.068±0.007	0.006±0.004	0.016±0.006
84.9	-0.9±0.3	0.2±0.2	-0.01±0.01	-1.17±0.02	1.075±0.007	1.075±0.007	0.004±0.004	0.017±0.006
90.0	-0.8±0.3	0.2±0.2	0.00±0.01	-1.17±0.02	1.081±0.007	1.081±0.007	0.004±0.004	0.016±0.006
100.2	-0.7±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.004±0.004	0.013±0.006
110.3	-0.7±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.004±0.004	0.012±0.006
120.5	-0.6±0.3	0.1±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.002±0.004	0.012±0.006
130.7	-0.6±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.004±0.004	0.011±0.006
140.8	-0.6±0.3	0.1±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.084±0.007	0.003±0.004	0.011±0.006

Table B.145 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.6±0.3	1.5±0.7	-0.81±0.01	-1.17±0.02	0.602±0.008	0.600±0.008	0.015±0.007	-0.049±0.003
4.7	4.3±0.3	0.9±0.7	-0.79±0.01	-1.18±0.02	0.623±0.008	0.621±0.008	0.009±0.007	-0.047±0.003
5.7	4.0±0.3	0.5±0.6	-0.77±0.01	-1.17±0.02	0.636±0.007	0.634±0.007	0.005±0.007	-0.045±0.004
6.7	3.6±0.3	0.4±0.6	-0.76±0.01	-1.18±0.02	0.652±0.007	0.650±0.007	0.005±0.007	-0.041±0.004
7.7	3.4±0.3	0.3±0.6	-0.74±0.01	-1.18±0.02	0.664±0.007	0.663±0.007	0.004±0.007	-0.039±0.004
8.7	3.0±0.3	0.3±0.6	-0.72±0.01	-1.17±0.02	0.675±0.007	0.674±0.007	0.004±0.007	-0.035±0.004
9.8	2.6±0.3	0.3±0.5	-0.71±0.01	-1.18±0.02	0.689±0.007	0.689±0.007	0.003±0.007	-0.031±0.004
10.8	2.3±0.3	0.3±0.5	-0.69±0.01	-1.17±0.02	0.695±0.007	0.695±0.007	0.004±0.006	-0.028±0.004
11.8	2.1±0.3	0.3±0.5	-0.67±0.01	-1.17±0.02	0.709±0.007	0.709±0.007	0.004±0.006	-0.025±0.004
12.8	1.8±0.3	0.3±0.5	-0.65±0.01	-1.17±0.02	0.719±0.007	0.719±0.007	0.004±0.006	-0.023±0.004
13.8	1.6±0.3	0.3±0.5	-0.65±0.01	-1.18±0.02	0.732±0.007	0.732±0.007	0.004±0.006	-0.020±0.004
16.4	1.1±0.3	0.3±0.4	-0.60±0.01	-1.18±0.02	0.757±0.007	0.757±0.007	0.004±0.006	-0.015±0.004
18.9	0.8±0.3	0.3±0.4	-0.57±0.01	-1.18±0.02	0.782±0.007	0.782±0.007	0.004±0.006	-0.011±0.004
21.4	0.5±0.3	0.3±0.4	-0.53±0.01	-1.17±0.02	0.799±0.007	0.799±0.007	0.004±0.006	-0.008±0.004
24.0	0.3±0.3	0.4±0.4	-0.49±0.01	-1.17±0.02	0.824±0.007	0.824±0.007	0.005±0.005	-0.004±0.005
26.5	0.1±0.3	0.3±0.4	-0.47±0.01	-1.17±0.02	0.839±0.007	0.839±0.007	0.005±0.005	-0.001±0.005
29.1	-0.1±0.3	0.4±0.3	-0.43±0.01	-1.16±0.02	0.859±0.007	0.859±0.007	0.005±0.005	0.002±0.005
31.6	-0.3±0.3	0.3±0.3	-0.42±0.01	-1.19±0.02	0.877±0.007	0.877±0.007	0.005±0.005	0.004±0.005
34.1	-0.4±0.3	0.3±0.3	-0.39±0.01	-1.19±0.02	0.893±0.007	0.893±0.007	0.005±0.005	0.006±0.005
36.7	-0.4±0.3	0.4±0.3	-0.36±0.01	-1.18±0.02	0.907±0.007	0.907±0.007	0.006±0.005	0.007±0.005
39.2	-0.6±0.3	0.4±0.3	-0.33±0.01	-1.17±0.02	0.917±0.007	0.917±0.007	0.006±0.005	0.009±0.005
44.3	-0.7±0.3	0.4±0.3	-0.28±0.01	-1.16±0.02	0.936±0.007	0.936±0.007	0.006±0.005	0.011±0.005
49.4	-0.8±0.3	0.3±0.3	-0.23±0.01	-1.17±0.02	0.966±0.007	0.966±0.007	0.005±0.005	0.013±0.005
54.5	-0.8±0.3	0.2±0.3	-0.19±0.01	-1.17±0.02	0.989±0.007	0.989±0.007	0.004±0.005	0.013±0.005
59.5	-0.8±0.3	0.2±0.3	-0.15±0.01	-1.18±0.02	1.012±0.007	1.012±0.007	0.004±0.004	0.014±0.006
64.6	-0.8±0.3	0.2±0.2	-0.11±0.01	-1.15±0.02	1.022±0.007	1.022±0.007	0.004±0.004	0.014±0.006
69.7	-0.8±0.3	0.2±0.2	-0.09±0.01	-1.18±0.02	1.044±0.007	1.044±0.007	0.004±0.004	0.015±0.006
74.8	-0.8±0.3	0.2±0.2	-0.04±0.01	-1.16±0.02	1.058±0.007	1.057±0.007	0.003±0.004	0.015±0.006
79.9	-0.7±0.3	0.2±0.2	-0.03±0.01	-1.17±0.02	1.067±0.007	1.067±0.007	0.003±0.004	0.013±0.006
84.9	-0.6±0.3	0.2±0.2	-0.01±0.01	-1.17±0.02	1.076±0.007	1.076±0.007	0.004±0.004	0.012±0.006
90.0	-0.6±0.3	0.2±0.2	0.00±0.01	-1.17±0.02	1.079±0.007	1.079±0.007	0.003±0.004	0.011±0.006
100.2	-0.5±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.004±0.004	0.009±0.006
110.3	-0.4±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.003±0.004	0.008±0.006
120.5	-0.4±0.3	0.1±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.002±0.004	0.007±0.006
130.7	-0.3±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	0.001±0.004	0.005±0.006
140.8	-0.2±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.003±0.004	0.004±0.006

Table B.146 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.1±0.3	1.3±0.7	-0.80±0.01	-1.17±0.02	0.607±0.008	0.605±0.008	0.014±0.007	-0.054±0.003
4.7	4.9±0.3	0.9±0.6	-0.78±0.01	-1.18±0.02	0.630±0.007	0.627±0.007	0.009±0.007	-0.053±0.004
5.7	4.5±0.3	0.5±0.6	-0.76±0.01	-1.18±0.02	0.644±0.007	0.642±0.007	0.005±0.007	-0.050±0.004
6.7	3.9±0.3	0.5±0.6	-0.74±0.01	-1.17±0.02	0.655±0.007	0.654±0.007	0.005±0.007	-0.044±0.004
7.7	3.5±0.3	0.4±0.6	-0.74±0.01	-1.18±0.02	0.667±0.007	0.666±0.007	0.005±0.007	-0.041±0.004
8.7	3.1±0.3	0.4±0.5	-0.72±0.01	-1.18±0.02	0.680±0.007	0.679±0.007	0.004±0.007	-0.037±0.004
9.8	2.7±0.3	0.3±0.5	-0.70±0.01	-1.18±0.02	0.691±0.007	0.690±0.007	0.004±0.006	-0.032±0.004
10.8	2.4±0.3	0.3±0.5	-0.69±0.01	-1.19±0.02	0.706±0.007	0.705±0.007	0.004±0.006	-0.030±0.004
11.8	2.1±0.3	0.3±0.5	-0.68±0.01	-1.19±0.02	0.712±0.007	0.712±0.007	0.004±0.006	-0.027±0.004
12.8	1.8±0.3	0.4±0.5	-0.66±0.01	-1.19±0.02	0.728±0.007	0.727±0.007	0.005±0.006	-0.023±0.004
13.8	1.5±0.3	0.3±0.5	-0.64±0.01	-1.18±0.02	0.734±0.007	0.733±0.007	0.004±0.006	-0.020±0.004
16.4	1.0±0.3	0.3±0.4	-0.60±0.01	-1.18±0.02	0.759±0.007	0.759±0.007	0.004±0.006	-0.013±0.004
18.9	0.7±0.3	0.3±0.4	-0.57±0.01	-1.19±0.02	0.786±0.007	0.786±0.007	0.004±0.006	-0.009±0.004
21.4	0.4±0.3	0.3±0.4	-0.53±0.01	-1.17±0.02	0.803±0.007	0.803±0.007	0.004±0.006	-0.005±0.004
24.0	0.0±0.3	0.3±0.4	-0.50±0.01	-1.19±0.02	0.827±0.007	0.827±0.007	0.005±0.005	0.000±0.005
26.5	-0.1±0.3	0.3±0.4	-0.46±0.01	-1.17±0.02	0.843±0.007	0.843±0.007	0.005±0.005	0.001±0.005
29.1	-0.3±0.3	0.3±0.3	-0.44±0.01	-1.19±0.02	0.866±0.007	0.866±0.007	0.005±0.005	0.004±0.005
31.6	-0.4±0.3	0.3±0.3	-0.41±0.01	-1.18±0.02	0.882±0.007	0.882±0.006	0.005±0.005	0.007±0.005
34.1	-0.5±0.3	0.2±0.3	-0.38±0.01	-1.17±0.02	0.893±0.006	0.893±0.006	0.003±0.005	0.008±0.005
36.7	-0.6±0.3	0.2±0.3	-0.36±0.01	-1.19±0.02	0.911±0.006	0.910±0.006	0.004±0.005	0.010±0.005
39.2	-0.7±0.3	0.1±0.3	-0.32±0.01	-1.17±0.02	0.922±0.006	0.922±0.006	0.002±0.005	0.011±0.005
44.3	-0.8±0.3	0.2±0.3	-0.28±0.01	-1.18±0.02	0.947±0.006	0.947±0.006	0.003±0.005	0.013±0.005
49.4	-0.9±0.3	0.1±0.3	-0.23±0.01	-1.17±0.02	0.972±0.006	0.972±0.006	0.002±0.005	0.015±0.005
54.5	-0.9±0.3	0.2±0.3	-0.19±0.01	-1.17±0.02	0.989±0.006	0.989±0.006	0.003±0.004	0.015±0.005
59.5	-1.0±0.3	0.1±0.2	-0.14±0.01	-1.17±0.02	1.013±0.007	1.012±0.007	0.002±0.004	0.017±0.006
64.6	-1.0±0.3	0.1±0.2	-0.11±0.01	-1.17±0.02	1.029±0.007	1.029±0.007	0.003±0.004	0.017±0.006
69.7	-0.9±0.3	0.1±0.2	-0.08±0.01	-1.17±0.02	1.045±0.007	1.044±0.007	0.003±0.004	0.017±0.006
74.8	-0.9±0.3	0.2±0.2	-0.05±0.01	-1.17±0.02	1.058±0.007	1.058±0.007	0.003±0.004	0.016±0.006
79.9	-0.9±0.3	0.2±0.2	-0.02±0.01	-1.17±0.02	1.069±0.007	1.069±0.007	0.003±0.004	0.016±0.006
84.9	-0.8±0.3	0.2±0.2	-0.01±0.01	-1.17±0.02	1.076±0.007	1.076±0.007	0.003±0.004	0.015±0.006
90.0	-0.7±0.3	0.2±0.2	0.00±0.01	-1.17±0.02	1.081±0.007	1.081±0.007	0.003±0.004	0.014±0.006
100.2	-0.6±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.003±0.004	0.011±0.006
110.3	-0.6±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.003±0.004	0.011±0.006
120.5	-0.5±0.3	0.1±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.085±0.007	0.001±0.004	0.010±0.006
130.7	-0.4±0.3	0.1±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	0.002±0.004	0.008±0.006
140.8	-0.4±0.3	0.1±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	0.001±0.004	0.007±0.006

Table B.147 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.0±0.3	1.7±0.7	-0.79±0.01	-1.17±0.02	0.620±0.007	0.616±0.007	0.018±0.007	-0.065±0.003
4.7	5.7±0.3	1.0±0.6	-0.77±0.01	-1.17±0.02	0.635±0.007	0.632±0.007	0.011±0.007	-0.063±0.004
5.7	5.0±0.3	0.5±0.6	-0.75±0.01	-1.17±0.02	0.650±0.007	0.647±0.007	0.005±0.007	-0.056±0.004
6.7	4.6±0.3	0.5±0.6	-0.73±0.01	-1.17±0.02	0.668±0.007	0.665±0.007	0.006±0.007	-0.054±0.004
7.7	4.1±0.3	0.4±0.6	-0.72±0.01	-1.17±0.02	0.675±0.007	0.673±0.007	0.005±0.007	-0.048±0.004
8.7	3.6±0.3	0.4±0.5	-0.71±0.01	-1.18±0.02	0.689±0.007	0.687±0.007	0.005±0.006	-0.044±0.004
9.8	3.0±0.3	0.4±0.5	-0.69±0.01	-1.17±0.02	0.691±0.007	0.690±0.007	0.004±0.006	-0.036±0.004
10.8	2.8±0.3	0.3±0.5	-0.68±0.01	-1.17±0.02	0.702±0.007	0.701±0.007	0.004±0.006	-0.034±0.004
11.8	2.4±0.3	0.3±0.5	-0.66±0.01	-1.18±0.02	0.719±0.007	0.718±0.007	0.004±0.006	-0.031±0.004
12.8	2.0±0.3	0.3±0.5	-0.64±0.01	-1.16±0.02	0.723±0.007	0.722±0.007	0.004±0.006	-0.026±0.004
13.8	1.8±0.3	0.3±0.5	-0.63±0.01	-1.17±0.02	0.736±0.007	0.736±0.007	0.004±0.006	-0.023±0.004
16.4	1.1±0.3	0.3±0.4	-0.59±0.01	-1.17±0.02	0.759±0.007	0.759±0.007	0.004±0.006	-0.015±0.004
18.9	0.7±0.3	0.3±0.4	-0.55±0.01	-1.16±0.02	0.783±0.007	0.783±0.007	0.004±0.006	-0.009±0.004
21.4	0.3±0.3	0.2±0.4	-0.52±0.01	-1.17±0.02	0.807±0.007	0.807±0.007	0.003±0.005	-0.005±0.004
24.0	0.1±0.3	0.2±0.4	-0.49±0.01	-1.17±0.02	0.829±0.007	0.829±0.007	0.003±0.005	-0.001±0.005
26.5	-0.1±0.3	0.1±0.3	-0.45±0.01	-1.17±0.02	0.850±0.007	0.850±0.007	0.002±0.005	0.002±0.005
29.1	-0.2±0.3	0.1±0.3	-0.42±0.01	-1.17±0.02	0.865±0.006	0.865±0.006	0.001±0.005	0.003±0.005
31.6	-0.4±0.3	0.1±0.3	-0.40±0.01	-1.17±0.02	0.880±0.006	0.880±0.006	0.002±0.005	0.007±0.005
34.1	-0.5±0.3	0.1±0.3	-0.37±0.01	-1.18±0.02	0.899±0.006	0.899±0.006	0.001±0.005	0.009±0.005
36.7	-0.6±0.3	0.1±0.3	-0.33±0.01	-1.17±0.02	0.912±0.006	0.912±0.006	0.001±0.005	0.010±0.005
39.2	-0.7±0.3	0.1±0.3	-0.31±0.01	-1.17±0.02	0.926±0.006	0.926±0.006	0.001±0.005	0.011±0.005
44.3	-0.8±0.3	0.1±0.3	-0.27±0.01	-1.17±0.02	0.951±0.006	0.951±0.006	0.001±0.005	0.013±0.005
49.4	-0.8±0.3	0.1±0.3	-0.22±0.01	-1.16±0.02	0.968±0.006	0.968±0.006	0.002±0.005	0.014±0.005
54.5	-0.9±0.3	0.1±0.3	-0.18±0.01	-1.16±0.02	0.991±0.006	0.991±0.006	0.001±0.004	0.016±0.005
59.5	-0.9±0.3	0.0±0.2	-0.14±0.01	-1.17±0.02	1.014±0.006	1.014±0.006	0.000±0.004	0.016±0.006
64.6	-0.9±0.3	0.0±0.2	-0.11±0.01	-1.17±0.02	1.028±0.007	1.028±0.007	0.000±0.004	0.016±0.006
69.7	-0.9±0.3	0.0±0.2	-0.07±0.01	-1.16±0.02	1.045±0.007	1.045±0.007	0.000±0.004	0.017±0.006
74.8	-0.8±0.3	0.0±0.2	-0.04±0.01	-1.16±0.02	1.059±0.007	1.059±0.007	0.001±0.004	0.015±0.006
79.9	-0.8±0.3	0.1±0.2	-0.03±0.01	-1.17±0.02	1.068±0.007	1.068±0.007	0.001±0.004	0.014±0.006
84.9	-0.7±0.3	0.1±0.2	-0.01±0.01	-1.16±0.02	1.073±0.007	1.073±0.007	0.002±0.004	0.014±0.006
90.0	-0.7±0.3	0.1±0.2	0.00±0.01	-1.16±0.02	1.078±0.007	1.078±0.007	0.002±0.004	0.012±0.006
100.2	-0.5±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.000±0.004	0.010±0.006
110.3	-0.5±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.001±0.004	0.009±0.006
120.5	-0.4±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.003±0.004	0.008±0.006
130.7	-0.4±0.3	0.1±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.002±0.004	0.007±0.006
140.8	-0.3±0.3	0.1±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.002±0.004	0.005±0.006

Table B.148 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.5±0.3	1.6±0.6	-0.77±0.01	-1.17±0.02	0.630±0.007	0.626±0.007	0.017±0.007	-0.072±0.004
4.7	6.0±0.3	0.9±0.6	-0.75±0.01	-1.17±0.02	0.648±0.007	0.644±0.007	0.010±0.007	-0.067±0.004
5.7	5.4±0.3	0.5±0.6	-0.73±0.01	-1.17±0.02	0.663±0.007	0.660±0.007	0.005±0.007	-0.063±0.004
6.7	4.8±0.3	0.4±0.5	-0.72±0.01	-1.18±0.02	0.678±0.007	0.676±0.007	0.005±0.006	-0.057±0.004
7.7	4.2±0.3	0.4±0.5	-0.70±0.01	-1.18±0.02	0.688±0.007	0.686±0.007	0.004±0.006	-0.050±0.004
8.7	3.6±0.3	0.3±0.5	-0.69±0.01	-1.18±0.02	0.698±0.007	0.696±0.007	0.004±0.006	-0.044±0.004
9.8	3.2±0.3	0.3±0.5	-0.67±0.01	-1.17±0.02	0.706±0.007	0.705±0.007	0.004±0.006	-0.039±0.004
10.8	2.7±0.3	0.2±0.5	-0.66±0.01	-1.18±0.02	0.719±0.007	0.718±0.007	0.003±0.006	-0.034±0.004
11.8	2.2±0.3	0.2±0.5	-0.64±0.01	-1.16±0.02	0.726±0.007	0.725±0.007	0.003±0.006	-0.028±0.004
12.8	1.9±0.3	0.2±0.5	-0.62±0.01	-1.17±0.02	0.739±0.007	0.738±0.007	0.002±0.006	-0.025±0.004
13.8	1.6±0.3	0.0±0.4	-0.62±0.01	-1.17±0.02	0.748±0.007	0.747±0.007	0.000±0.006	-0.021±0.004
16.4	0.9±0.3	-0.1±0.4	-0.58±0.01	-1.17±0.02	0.771±0.007	0.771±0.007	-0.001±0.006	-0.012±0.004
18.9	0.4±0.3	0.0±0.4	-0.55±0.01	-1.17±0.02	0.793±0.007	0.793±0.007	0.000±0.005	-0.006±0.004
21.4	0.0±0.3	0.0±0.4	-0.51±0.01	-1.17±0.02	0.813±0.007	0.813±0.007	0.000±0.005	0.000±0.004
24.0	-0.2±0.3	0.0±0.4	-0.47±0.01	-1.17±0.02	0.836±0.007	0.836±0.007	0.000±0.005	0.003±0.005
26.5	-0.4±0.3	0.0±0.3	-0.44±0.01	-1.18±0.02	0.856±0.006	0.856±0.006	0.000±0.005	0.006±0.005
29.1	-0.6±0.3	0.0±0.3	-0.41±0.01	-1.17±0.02	0.872±0.006	0.872±0.006	-0.001±0.005	0.009±0.005
31.6	-0.7±0.3	-0.1±0.3	-0.38±0.01	-1.16±0.02	0.884±0.006	0.884±0.006	-0.001±0.005	0.011±0.005
34.1	-0.9±0.3	-0.1±0.3	-0.36±0.01	-1.17±0.02	0.900±0.006	0.899±0.006	-0.002±0.005	0.013±0.005
36.7	-0.9±0.3	-0.2±0.3	-0.33±0.01	-1.17±0.02	0.915±0.006	0.915±0.006	-0.003±0.005	0.014±0.005
39.2	-1.0±0.3	-0.1±0.3	-0.31±0.01	-1.17±0.02	0.930±0.006	0.930±0.006	-0.002±0.005	0.017±0.005
44.3	-1.1±0.3	-0.2±0.3	-0.26±0.01	-1.17±0.02	0.952±0.006	0.952±0.006	-0.003±0.005	0.018±0.005
49.4	-1.1±0.3	-0.1±0.3	-0.20±0.01	-1.15±0.02	0.974±0.006	0.974±0.006	-0.003±0.004	0.019±0.005
54.5	-1.2±0.3	-0.1±0.2	-0.17±0.01	-1.17±0.02	0.999±0.006	0.999±0.006	-0.002±0.004	0.021±0.006
59.5	-1.2±0.3	-0.1±0.2	-0.13±0.01	-1.15±0.02	1.014±0.006	1.014±0.006	-0.002±0.004	0.021±0.006
64.6	-1.1±0.3	-0.1±0.2	-0.09±0.01	-1.15±0.02	1.030±0.006	1.029±0.006	-0.002±0.004	0.021±0.006
69.7	-1.1±0.3	-0.1±0.2	-0.06±0.01	-1.16±0.02	1.045±0.007	1.045±0.007	-0.001±0.004	0.021±0.006
74.8	-1.1±0.3	-0.1±0.2	-0.04±0.01	-1.16±0.02	1.058±0.007	1.058±0.007	-0.001±0.004	0.020±0.006
79.9	-1.0±0.3	-0.1±0.2	-0.02±0.01	-1.16±0.02	1.065±0.007	1.065±0.007	-0.001±0.004	0.019±0.006
84.9	-1.0±0.3	-0.1±0.2	-0.01±0.01	-1.16±0.02	1.073±0.007	1.073±0.007	-0.001±0.004	0.019±0.006
90.0	-0.9±0.3	0.0±0.2	0.00±0.01	-1.16±0.02	1.076±0.007	1.076±0.007	0.000±0.004	0.017±0.006
100.2	-0.8±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.000±0.004	0.015±0.006
110.3	-0.7±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.000±0.004	0.013±0.006
120.5	-0.7±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.001±0.004	0.014±0.006
130.7	-0.6±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.000±0.004	0.011±0.006
140.8	-0.5±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.000±0.004	0.009±0.006

Table B.149 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	7.4±0.3	1.7±0.6	-0.77±0.01	-1.18±0.02	0.640±0.007	0.635±0.007	0.018±0.007	-0.082±0.004
4.7	6.9±0.3	1.0±0.6	-0.74±0.01	-1.17±0.02	0.656±0.007	0.651±0.007	0.011±0.007	-0.079±0.004
5.7	6.2±0.3	0.5±0.6	-0.73±0.01	-1.18±0.02	0.669±0.007	0.665±0.007	0.006±0.007	-0.072±0.004
6.7	5.4±0.3	0.4±0.5	-0.72±0.01	-1.19±0.02	0.686±0.007	0.683±0.007	0.004±0.007	-0.064±0.004
7.7	4.8±0.3	0.3±0.5	-0.70±0.01	-1.19±0.02	0.696±0.007	0.693±0.007	0.004±0.006	-0.058±0.004
8.7	4.1±0.3	0.1±0.5	-0.69±0.01	-1.19±0.02	0.703±0.007	0.701±0.007	0.001±0.006	-0.050±0.004
9.8	3.5±0.3	0.0±0.5	-0.67±0.01	-1.18±0.02	0.714±0.007	0.713±0.007	0.000±0.006	-0.043±0.004
10.8	3.0±0.3	-0.1±0.5	-0.67±0.01	-1.20±0.02	0.728±0.007	0.727±0.007	-0.002±0.006	-0.038±0.004
11.8	2.6±0.3	-0.1±0.5	-0.64±0.01	-1.19±0.02	0.739±0.007	0.738±0.007	-0.002±0.006	-0.033±0.004
12.8	2.1±0.3	-0.1±0.5	-0.63±0.01	-1.19±0.02	0.751±0.007	0.750±0.007	-0.002±0.006	-0.028±0.004
13.8	1.7±0.3	-0.1±0.4	-0.62±0.01	-1.19±0.02	0.757±0.007	0.756±0.007	-0.002±0.006	-0.023±0.004
16.4	1.1±0.3	-0.3±0.4	-0.57±0.01	-1.19±0.02	0.783±0.007	0.783±0.007	-0.004±0.006	-0.015±0.004
18.9	0.5±0.3	-0.3±0.4	-0.54±0.01	-1.19±0.02	0.805±0.007	0.805±0.007	-0.005±0.006	-0.008±0.004
21.4	0.2±0.3	-0.4±0.4	-0.51±0.01	-1.19±0.02	0.822±0.007	0.822±0.007	-0.006±0.005	-0.002±0.005
24.0	-0.1±0.3	-0.3±0.4	-0.47±0.01	-1.19±0.02	0.846±0.007	0.846±0.007	-0.005±0.005	0.002±0.005
26.5	-0.3±0.3	-0.3±0.3	-0.45±0.01	-1.19±0.02	0.863±0.007	0.863±0.007	-0.005±0.005	0.004±0.005
29.1	-0.5±0.3	-0.3±0.3	-0.41±0.01	-1.18±0.02	0.874±0.007	0.874±0.007	-0.005±0.005	0.007±0.005
31.6	-0.6±0.3	-0.3±0.3	-0.38±0.01	-1.18±0.02	0.897±0.007	0.897±0.007	-0.004±0.005	0.009±0.005
34.1	-0.7±0.3	-0.2±0.3	-0.35±0.01	-1.18±0.02	0.911±0.007	0.911±0.007	-0.004±0.005	0.011±0.005
36.7	-0.8±0.3	-0.3±0.3	-0.33±0.01	-1.18±0.02	0.924±0.007	0.924±0.007	-0.004±0.005	0.012±0.005
39.2	-0.8±0.3	-0.3±0.3	-0.31±0.01	-1.18±0.02	0.931±0.007	0.931±0.007	-0.004±0.005	0.013±0.005
44.3	-0.9±0.3	-0.3±0.3	-0.26±0.01	-1.18±0.02	0.959±0.007	0.959±0.007	-0.005±0.005	0.016±0.005
49.4	-1.0±0.3	-0.2±0.3	-0.21±0.01	-1.18±0.02	0.983±0.007	0.982±0.007	-0.003±0.005	0.017±0.005
54.5	-1.0±0.3	-0.3±0.3	-0.18±0.01	-1.19±0.02	1.004±0.007	1.004±0.007	-0.005±0.004	0.018±0.006
59.5	-1.0±0.3	-0.2±0.2	-0.15±0.01	-1.18±0.02	1.018±0.007	1.017±0.007	-0.004±0.004	0.017±0.006
64.6	-1.0±0.3	-0.2±0.2	-0.11±0.01	-1.18±0.02	1.038±0.007	1.038±0.007	-0.003±0.004	0.017±0.006
69.7	-1.0±0.3	-0.1±0.2	-0.07±0.01	-1.18±0.02	1.052±0.007	1.051±0.007	-0.002±0.004	0.018±0.006
74.8	-0.9±0.3	-0.1±0.2	-0.05±0.01	-1.17±0.02	1.060±0.007	1.060±0.007	-0.001±0.004	0.017±0.006
79.9	-0.9±0.3	-0.1±0.2	-0.02±0.01	-1.18±0.02	1.073±0.007	1.072±0.007	-0.001±0.004	0.016±0.006
84.9	-0.8±0.3	-0.1±0.2	-0.01±0.01	-1.17±0.02	1.079±0.007	1.079±0.007	-0.001±0.004	0.016±0.006
90.0	-0.8±0.3	0.0±0.2	0.00±0.01	-1.18±0.02	1.084±0.007	1.084±0.007	-0.001±0.004	0.014±0.006
100.2	-0.6±0.3	0.0±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.088±0.007	-0.001±0.004	0.012±0.006
110.3	-0.5±0.3	0.0±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.088±0.007	-0.001±0.004	0.010±0.006
120.5	-0.5±0.3	0.0±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.000±0.004	0.009±0.006
130.7	-0.4±0.3	0.0±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.001±0.004	0.008±0.006
140.8	-0.4±0.3	0.1±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.002±0.004	0.007±0.006

Table B.150 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	7.6±0.3	1.5±0.6	-0.73±0.01	-1.18±0.02	0.665±0.007	0.659±0.007	0.018±0.007	-0.088±0.004
4.7	6.9±0.3	0.7±0.5	-0.71±0.01	-1.18±0.02	0.684±0.007	0.679±0.007	0.008±0.006	-0.082±0.004
5.7	5.9±0.3	0.4±0.5	-0.69±0.01	-1.17±0.02	0.693±0.007	0.689±0.007	0.004±0.006	-0.072±0.004
6.7	5.3±0.3	0.3±0.5	-0.67±0.01	-1.18±0.02	0.712±0.007	0.709±0.007	0.003±0.006	-0.066±0.004
7.7	4.5±0.3	-0.1±0.5	-0.66±0.01	-1.18±0.02	0.717±0.007	0.715±0.007	-0.001±0.006	-0.056±0.004
8.7	4.0±0.3	-0.1±0.5	-0.65±0.01	-1.19±0.02	0.735±0.007	0.733±0.007	-0.002±0.006	-0.051±0.004
9.8	3.3±0.3	-0.2±0.5	-0.62±0.01	-1.17±0.02	0.744±0.007	0.742±0.007	-0.003±0.006	-0.043±0.004
10.8	2.7±0.3	-0.4±0.4	-0.61±0.01	-1.19±0.02	0.758±0.007	0.757±0.007	-0.005±0.006	-0.036±0.004
11.8	2.4±0.3	-0.5±0.4	-0.60±0.01	-1.19±0.02	0.769±0.007	0.768±0.007	-0.006±0.006	-0.032±0.004
12.8	2.0±0.3	-0.5±0.4	-0.57±0.01	-1.18±0.02	0.777±0.007	0.776±0.007	-0.006±0.006	-0.027±0.004
13.8	1.6±0.3	-0.5±0.4	-0.55±0.01	-1.17±0.02	0.784±0.007	0.784±0.007	-0.006±0.006	-0.022±0.004
16.4	0.9±0.3	-0.5±0.4	-0.53±0.01	-1.18±0.02	0.807±0.007	0.807±0.007	-0.007±0.005	-0.013±0.004
18.9	0.4±0.3	-0.6±0.4	-0.49±0.01	-1.18±0.02	0.832±0.006	0.832±0.006	-0.009±0.005	-0.006±0.005
21.4	0.0±0.3	-0.7±0.3	-0.46±0.01	-1.18±0.02	0.848±0.006	0.848±0.006	-0.010±0.005	0.000±0.005
24.0	-0.2±0.3	-0.6±0.3	-0.42±0.01	-1.17±0.02	0.865±0.006	0.865±0.006	-0.009±0.005	0.002±0.005
26.5	-0.4±0.3	-0.6±0.3	-0.40±0.01	-1.17±0.02	0.879±0.006	0.879±0.006	-0.009±0.005	0.006±0.005
29.1	-0.5±0.3	-0.6±0.3	-0.38±0.01	-1.18±0.02	0.897±0.006	0.897±0.006	-0.009±0.005	0.008±0.005
31.6	-0.7±0.3	-0.5±0.3	-0.35±0.01	-1.17±0.02	0.908±0.006	0.908±0.006	-0.009±0.005	0.011±0.005
34.1	-0.8±0.3	-0.6±0.3	-0.33±0.01	-1.17±0.02	0.920±0.006	0.920±0.006	-0.010±0.005	0.012±0.005
36.7	-0.8±0.3	-0.5±0.3	-0.31±0.01	-1.18±0.02	0.934±0.006	0.934±0.006	-0.009±0.005	0.014±0.005
39.2	-0.9±0.3	-0.5±0.3	-0.28±0.01	-1.18±0.02	0.946±0.006	0.945±0.006	-0.009±0.005	0.015±0.005
44.3	-1.0±0.3	-0.6±0.3	-0.23±0.01	-1.17±0.02	0.965±0.006	0.965±0.006	-0.010±0.004	0.017±0.005
49.4	-1.1±0.3	-0.4±0.3	-0.21±0.01	-1.17±0.02	0.983±0.006	0.982±0.006	-0.007±0.004	0.018±0.005
54.5	-1.1±0.3	-0.5±0.2	-0.16±0.01	-1.17±0.02	1.005±0.006	1.005±0.006	-0.009±0.004	0.019±0.006
59.5	-1.1±0.3	-0.4±0.2	-0.12±0.01	-1.17±0.02	1.021±0.006	1.021±0.006	-0.008±0.004	0.020±0.006
64.6	-1.1±0.3	-0.4±0.2	-0.08±0.01	-1.16±0.02	1.039±0.006	1.039±0.006	-0.007±0.004	0.019±0.006
69.7	-1.0±0.3	-0.3±0.2	-0.06±0.01	-1.16±0.02	1.052±0.007	1.052±0.007	-0.005±0.004	0.019±0.006
74.8	-1.0±0.3	-0.3±0.2	-0.03±0.01	-1.16±0.02	1.063±0.007	1.063±0.007	-0.005±0.004	0.018±0.006
79.9	-1.0±0.3	-0.2±0.2	-0.02±0.01	-1.17±0.02	1.071±0.007	1.071±0.007	-0.004±0.004	0.018±0.006
84.9	-0.8±0.3	-0.2±0.2	-0.01±0.01	-1.17±0.02	1.079±0.007	1.079±0.007	-0.004±0.004	0.016±0.006
90.0	-0.8±0.3	-0.2±0.2	0.00±0.01	-1.17±0.02	1.082±0.007	1.082±0.007	-0.004±0.004	0.015±0.006
100.2	-0.7±0.3	-0.1±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	-0.002±0.004	0.013±0.006
110.3	-0.6±0.3	-0.1±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	-0.001±0.004	0.011±0.006
120.5	-0.5±0.3	0.0±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	-0.001±0.004	0.010±0.006
130.7	-0.5±0.3	0.0±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.085±0.007	0.000±0.004	0.009±0.006
140.8	-0.3±0.3	0.1±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	0.001±0.004	0.006±0.006

Table B.151 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-38 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	7.8±0.3	1.2±0.5	-0.72±0.01	-1.19±0.02	0.687±0.007	0.681±0.007	0.015±0.006	-0.094±0.004
4.7	7.1±0.3	0.4±0.5	-0.70±0.01	-1.18±0.02	0.695±0.007	0.689±0.007	0.005±0.006	-0.086±0.004
5.7	6.1±0.3	0.3±0.5	-0.68±0.01	-1.19±0.02	0.716±0.007	0.712±0.007	0.003±0.006	-0.076±0.004
6.7	5.5±0.3	-0.2±0.5	-0.68±0.01	-1.20±0.02	0.721±0.007	0.718±0.007	-0.002±0.006	-0.069±0.004
7.7	4.7±0.3	-0.4±0.5	-0.66±0.01	-1.19±0.02	0.727±0.007	0.725±0.007	-0.005±0.006	-0.060±0.004
8.7	4.0±0.3	-0.5±0.4	-0.65±0.01	-1.21±0.02	0.751±0.007	0.749±0.007	-0.007±0.006	-0.052±0.004
9.8	3.3±0.3	-0.7±0.4	-0.62±0.01	-1.18±0.02	0.749±0.007	0.748±0.007	-0.009±0.006	-0.043±0.004
10.8	2.9±0.3	-0.8±0.4	-0.62±0.01	-1.21±0.02	0.770±0.007	0.769±0.007	-0.010±0.006	-0.038±0.004
11.8	2.3±0.3	-0.9±0.4	-0.59±0.01	-1.18±0.02	0.764±0.007	0.763±0.007	-0.012±0.006	-0.031±0.004
12.8	1.9±0.3	-0.9±0.4	-0.58±0.01	-1.19±0.02	0.783±0.007	0.783±0.007	-0.012±0.006	-0.026±0.004
13.8	1.6±0.3	-0.9±0.4	-0.57±0.01	-1.20±0.02	0.799±0.007	0.799±0.007	-0.013±0.005	-0.022±0.004
16.4	0.9±0.3	-1.1±0.4	-0.51±0.01	-1.19±0.02	0.821±0.007	0.820±0.007	-0.015±0.005	-0.013±0.005
18.9	0.4±0.3	-1.0±0.4	-0.49±0.01	-1.21±0.02	0.845±0.006	0.845±0.007	-0.015±0.005	-0.007±0.005
21.4	0.1±0.3	-1.0±0.3	-0.45±0.01	-1.20±0.02	0.866±0.006	0.865±0.006	-0.014±0.005	-0.001±0.005
24.0	-0.2±0.3	-0.9±0.3	-0.41±0.01	-1.20±0.02	0.884±0.006	0.884±0.006	-0.014±0.005	0.003±0.005
26.5	-0.4±0.3	-0.8±0.3	-0.39±0.01	-1.19±0.02	0.897±0.006	0.897±0.006	-0.013±0.005	0.006±0.005
29.1	-0.5±0.3	-0.8±0.3	-0.36±0.01	-1.19±0.02	0.907±0.006	0.907±0.006	-0.013±0.005	0.008±0.005
31.6	-0.6±0.3	-0.8±0.3	-0.34±0.01	-1.18±0.02	0.920±0.006	0.920±0.006	-0.013±0.005	0.010±0.005
34.1	-0.7±0.3	-0.9±0.3	-0.31±0.01	-1.18±0.02	0.931±0.006	0.930±0.006	-0.014±0.005	0.012±0.005
36.7	-0.8±0.3	-0.8±0.3	-0.30±0.01	-1.19±0.02	0.945±0.006	0.945±0.006	-0.013±0.005	0.013±0.005
39.2	-0.9±0.3	-0.7±0.3	-0.28±0.01	-1.20±0.02	0.961±0.006	0.961±0.006	-0.012±0.005	0.015±0.005
44.3	-1.0±0.3	-0.7±0.3	-0.23±0.01	-1.18±0.02	0.974±0.006	0.974±0.006	-0.012±0.004	0.016±0.005
49.4	-1.0±0.3	-0.7±0.3	-0.19±0.01	-1.19±0.02	0.996±0.006	0.996±0.006	-0.012±0.004	0.017±0.005
54.5	-1.0±0.3	-0.6±0.2	-0.16±0.01	-1.19±0.02	1.015±0.006	1.015±0.006	-0.011±0.004	0.018±0.006
59.5	-1.0±0.3	-0.5±0.2	-0.12±0.01	-1.19±0.02	1.033±0.007	1.033±0.007	-0.010±0.004	0.017±0.006
64.6	-1.0±0.3	-0.5±0.2	-0.08±0.01	-1.18±0.02	1.048±0.007	1.048±0.007	-0.010±0.004	0.018±0.006
69.7	-0.9±0.3	-0.5±0.2	-0.07±0.01	-1.19±0.02	1.061±0.007	1.061±0.007	-0.009±0.004	0.017±0.006
74.8	-0.9±0.3	-0.5±0.2	-0.04±0.01	-1.19±0.02	1.073±0.007	1.072±0.007	-0.009±0.004	0.016±0.006
79.9	-0.9±0.3	-0.4±0.2	-0.02±0.01	-1.19±0.02	1.082±0.007	1.082±0.007	-0.007±0.004	0.016±0.006
84.9	-0.8±0.3	-0.3±0.2	-0.01±0.01	-1.19±0.02	1.087±0.007	1.087±0.007	-0.006±0.004	0.015±0.006
90.0	-0.7±0.3	-0.2±0.2	0.00±0.01	-1.19±0.02	1.091±0.007	1.091±0.007	-0.004±0.004	0.013±0.006
100.2	-0.6±0.3	-0.2±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.093±0.007	-0.004±0.004	0.011±0.006
110.3	-0.5±0.3	-0.1±0.2	0.01±0.01	-1.19±0.02	1.093±0.007	1.093±0.007	-0.003±0.004	0.010±0.006
120.5	-0.5±0.3	0.0±0.2	0.01±0.01	-1.19±0.02	1.093±0.007	1.093±0.007	-0.001±0.004	0.009±0.006
130.7	-0.4±0.3	0.0±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.094±0.007	-0.001±0.004	0.007±0.006
140.8	-0.3±0.3	0.0±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.094±0.007	0.000±0.004	0.006±0.006

Table B.152 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-32 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	7.5±0.3	1.1±0.5	-0.69±0.01	-1.18±0.02	0.700±0.007	0.694±0.007	0.013±0.006	-0.092±0.004
4.7	6.8±0.3	0.3±0.5	-0.67±0.01	-1.18±0.02	0.713±0.007	0.708±0.007	0.004±0.006	-0.085±0.004
5.7	6.0±0.3	-0.1±0.5	-0.65±0.01	-1.17±0.02	0.723±0.007	0.719±0.007	-0.002±0.006	-0.076±0.004
6.7	5.3±0.3	-0.6±0.5	-0.63±0.01	-1.17±0.02	0.733±0.007	0.730±0.007	-0.008±0.006	-0.068±0.004
7.7	4.6±0.3	-0.8±0.5	-0.62±0.01	-1.18±0.02	0.746±0.007	0.744±0.007	-0.010±0.006	-0.060±0.004
8.7	3.9±0.3	-0.9±0.4	-0.60±0.01	-1.17±0.02	0.759±0.007	0.758±0.007	-0.012±0.006	-0.052±0.004
9.8	3.4±0.3	-1.1±0.4	-0.58±0.01	-1.18±0.02	0.774±0.007	0.772±0.007	-0.015±0.006	-0.046±0.004
10.8	2.8±0.3	-1.3±0.4	-0.57±0.01	-1.17±0.02	0.775±0.007	0.774±0.007	-0.018±0.006	-0.038±0.004
11.8	2.3±0.3	-1.3±0.4	-0.55±0.01	-1.17±0.02	0.790±0.007	0.789±0.007	-0.018±0.006	-0.032±0.004
12.8	1.9±0.3	-1.3±0.4	-0.54±0.01	-1.19±0.02	0.806±0.007	0.806±0.007	-0.019±0.005	-0.027±0.004
13.8	1.6±0.3	-1.4±0.4	-0.52±0.01	-1.18±0.02	0.812±0.007	0.811±0.007	-0.020±0.005	-0.023±0.004
16.4	0.9±0.3	-1.3±0.4	-0.48±0.01	-1.18±0.02	0.840±0.007	0.839±0.007	-0.020±0.005	-0.013±0.005
18.9	0.4±0.3	-1.4±0.3	-0.44±0.01	-1.16±0.02	0.851±0.007	0.851±0.007	-0.020±0.005	-0.007±0.005
21.4	0.1±0.3	-1.3±0.3	-0.41±0.01	-1.17±0.02	0.875±0.007	0.875±0.007	-0.019±0.005	-0.001±0.005
24.0	-0.1±0.3	-1.2±0.3	-0.38±0.01	-1.17±0.02	0.887±0.006	0.886±0.006	-0.019±0.005	0.001±0.005
26.5	-0.3±0.3	-1.2±0.3	-0.37±0.01	-1.18±0.02	0.902±0.006	0.902±0.006	-0.020±0.005	0.005±0.005
29.1	-0.4±0.3	-1.1±0.3	-0.34±0.01	-1.18±0.02	0.917±0.006	0.917±0.006	-0.018±0.005	0.006±0.005
31.6	-0.5±0.3	-1.1±0.3	-0.32±0.01	-1.18±0.02	0.927±0.006	0.927±0.006	-0.018±0.005	0.009±0.005
34.1	-0.6±0.3	-1.1±0.3	-0.31±0.01	-1.19±0.02	0.939±0.006	0.939±0.006	-0.018±0.005	0.010±0.005
36.7	-0.7±0.3	-1.1±0.3	-0.28±0.01	-1.18±0.02	0.949±0.006	0.949±0.006	-0.018±0.005	0.012±0.005
39.2	-0.8±0.3	-1.0±0.3	-0.27±0.01	-1.19±0.02	0.958±0.006	0.957±0.006	-0.017±0.005	0.013±0.005
44.3	-0.9±0.3	-0.9±0.3	-0.22±0.01	-1.18±0.02	0.980±0.006	0.979±0.006	-0.016±0.004	0.015±0.005
49.4	-0.9±0.3	-0.9±0.3	-0.19±0.01	-1.19±0.02	0.997±0.006	0.997±0.007	-0.016±0.004	0.015±0.006
54.5	-1.0±0.3	-0.8±0.2	-0.15±0.01	-1.18±0.02	1.014±0.007	1.014±0.007	-0.015±0.004	0.017±0.006
59.5	-1.0±0.3	-0.8±0.2	-0.12±0.01	-1.17±0.02	1.027±0.007	1.027±0.007	-0.014±0.004	0.017±0.006
64.6	-0.9±0.3	-0.8±0.2	-0.08±0.01	-1.17±0.02	1.043±0.007	1.043±0.007	-0.014±0.004	0.016±0.006
69.7	-0.9±0.3	-0.7±0.2	-0.05±0.01	-1.17±0.02	1.057±0.007	1.056±0.007	-0.013±0.004	0.016±0.006
74.8	-0.9±0.3	-0.6±0.2	-0.03±0.01	-1.17±0.02	1.068±0.007	1.068±0.007	-0.010±0.004	0.016±0.006
79.9	-0.8±0.3	-0.5±0.2	-0.02±0.01	-1.18±0.02	1.076±0.007	1.076±0.007	-0.009±0.004	0.015±0.006
84.9	-0.7±0.3	-0.5±0.2	-0.01±0.01	-1.17±0.02	1.080±0.007	1.080±0.007	-0.009±0.004	0.014±0.006
90.0	-0.7±0.3	-0.5±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	-0.009±0.004	0.013±0.006
100.2	-0.6±0.3	-0.3±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	-0.005±0.004	0.011±0.006
110.3	-0.5±0.3	-0.3±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	-0.005±0.004	0.009±0.006
120.5	-0.4±0.3	-0.2±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.088±0.007	-0.004±0.004	0.008±0.006
130.7	-0.3±0.3	-0.1±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	-0.001±0.004	0.007±0.006
140.8	-0.3±0.3	-0.1±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.088±0.007	-0.001±0.004	0.005±0.006

Table B.153 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-25 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.5±0.3	0.9±0.5	-0.66±0.01	-1.16±0.02	0.707±0.007	0.703±0.007	0.011±0.006	-0.080±0.004
4.7	5.8±0.3	0.0±0.5	-0.63±0.01	-1.16±0.02	0.727±0.007	0.724±0.007	0.000±0.006	-0.074±0.004
5.7	5.2±0.3	-0.5±0.5	-0.62±0.01	-1.18±0.02	0.745±0.007	0.742±0.007	-0.007±0.006	-0.068±0.004
6.7	4.7±0.3	-1.0±0.4	-0.60±0.01	-1.18±0.02	0.759±0.007	0.756±0.007	-0.013±0.006	-0.062±0.004
7.7	4.1±0.3	-1.2±0.4	-0.57±0.01	-1.16±0.02	0.767±0.007	0.765±0.007	-0.016±0.006	-0.055±0.004
8.7	3.6±0.3	-1.3±0.4	-0.56±0.01	-1.19±0.02	0.789±0.007	0.787±0.007	-0.018±0.006	-0.050±0.004
9.8	3.2±0.3	-1.6±0.4	-0.54±0.01	-1.17±0.02	0.796±0.007	0.795±0.007	-0.022±0.006	-0.044±0.004
10.8	2.7±0.3	-1.6±0.4	-0.53±0.01	-1.18±0.02	0.810±0.007	0.808±0.007	-0.022±0.005	-0.038±0.004
11.8	2.4±0.3	-1.6±0.4	-0.51±0.01	-1.18±0.02	0.819±0.007	0.818±0.007	-0.023±0.005	-0.034±0.005
12.8	2.0±0.3	-1.7±0.4	-0.50±0.01	-1.18±0.02	0.830±0.007	0.829±0.007	-0.024±0.005	-0.029±0.005
13.8	1.7±0.3	-1.8±0.4	-0.47±0.01	-1.17±0.02	0.833±0.007	0.832±0.007	-0.026±0.005	-0.024±0.005
16.4	1.2±0.3	-1.7±0.4	-0.44±0.01	-1.16±0.02	0.852±0.007	0.852±0.007	-0.025±0.005	-0.017±0.005
18.9	0.7±0.3	-1.6±0.3	-0.40±0.01	-1.16±0.02	0.873±0.007	0.873±0.007	-0.025±0.005	-0.011±0.005
21.4	0.4±0.3	-1.5±0.3	-0.37±0.01	-1.16±0.02	0.892±0.007	0.891±0.007	-0.024±0.005	-0.006±0.005
24.0	0.1±0.3	-1.5±0.3	-0.36±0.01	-1.18±0.02	0.904±0.007	0.904±0.007	-0.023±0.005	-0.002±0.005
26.5	0.0±0.3	-1.4±0.3	-0.33±0.01	-1.16±0.02	0.909±0.007	0.908±0.007	-0.023±0.005	0.000±0.005
29.1	-0.2±0.3	-1.4±0.3	-0.32±0.01	-1.17±0.02	0.920±0.007	0.920±0.007	-0.023±0.005	0.004±0.005
31.6	-0.3±0.3	-1.4±0.3	-0.30±0.01	-1.16±0.02	0.931±0.007	0.931±0.007	-0.022±0.005	0.006±0.005
34.1	-0.5±0.3	-1.3±0.3	-0.29±0.01	-1.18±0.02	0.946±0.007	0.946±0.007	-0.022±0.005	0.008±0.005
36.7	-0.5±0.3	-1.3±0.3	-0.26±0.01	-1.16±0.02	0.951±0.007	0.950±0.007	-0.022±0.005	0.008±0.005
39.2	-0.5±0.3	-1.3±0.3	-0.24±0.01	-1.17±0.02	0.961±0.007	0.961±0.007	-0.021±0.005	0.009±0.005
44.3	-0.6±0.3	-1.2±0.3	-0.21±0.01	-1.17±0.02	0.977±0.007	0.977±0.007	-0.020±0.005	0.010±0.005
49.4	-0.7±0.3	-1.1±0.3	-0.18±0.01	-1.18±0.02	1.000±0.007	1.000±0.007	-0.020±0.004	0.012±0.006
54.5	-0.7±0.3	-1.1±0.2	-0.14±0.01	-1.17±0.02	1.016±0.007	1.016±0.007	-0.019±0.004	0.012±0.006
59.5	-0.7±0.3	-1.0±0.2	-0.11±0.01	-1.17±0.02	1.028±0.007	1.027±0.007	-0.018±0.004	0.012±0.006
64.6	-0.7±0.3	-0.9±0.2	-0.09±0.01	-1.17±0.02	1.041±0.007	1.041±0.007	-0.016±0.004	0.013±0.006
69.7	-0.7±0.3	-0.8±0.2	-0.05±0.01	-1.16±0.02	1.055±0.007	1.054±0.007	-0.014±0.004	0.013±0.006
74.8	-0.6±0.3	-0.7±0.2	-0.03±0.01	-1.17±0.02	1.066±0.007	1.066±0.007	-0.014±0.004	0.011±0.006
79.9	-0.6±0.3	-0.6±0.2	-0.01±0.01	-1.16±0.02	1.073±0.007	1.073±0.007	-0.011±0.004	0.011±0.006
84.9	-0.5±0.3	-0.5±0.2	-0.01±0.01	-1.17±0.02	1.077±0.007	1.077±0.007	-0.009±0.004	0.010±0.006
90.0	-0.5±0.3	-0.5±0.2	0.00±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	-0.009±0.004	0.009±0.006
100.2	-0.4±0.3	-0.3±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	-0.006±0.004	0.007±0.006
110.3	-0.3±0.3	-0.3±0.2	0.01±0.01	-1.17±0.02	1.083±0.007	1.083±0.007	-0.006±0.004	0.005±0.006
120.5	-0.2±0.3	-0.3±0.2	0.01±0.01	-1.17±0.02	1.083±0.007	1.083±0.007	-0.005±0.004	0.004±0.006
130.7	-0.2±0.3	-0.2±0.2	0.01±0.01	-1.17±0.02	1.083±0.007	1.083±0.007	-0.003±0.004	0.003±0.006
140.8	-0.1±0.3	-0.1±0.2	0.01±0.01	-1.17±0.02	1.083±0.007	1.083±0.007	-0.001±0.004	0.003±0.006

Table B.154 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-19 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.9±0.3	0.8±0.5	-0.67±0.01	-1.16±0.02	0.698±0.007	0.695±0.007	0.009±0.006	-0.060±0.004
4.7	4.6±0.3	-0.2±0.5	-0.64±0.01	-1.17±0.02	0.722±0.007	0.720±0.007	-0.002±0.006	-0.058±0.004
5.7	4.1±0.3	-0.7±0.5	-0.62±0.01	-1.17±0.02	0.740±0.007	0.738±0.007	-0.009±0.006	-0.053±0.004
6.7	3.8±0.3	-1.2±0.4	-0.60±0.01	-1.17±0.02	0.757±0.007	0.755±0.007	-0.015±0.006	-0.050±0.004
7.7	3.4±0.3	-1.4±0.4	-0.58±0.01	-1.17±0.02	0.769±0.007	0.767±0.007	-0.019±0.006	-0.045±0.004
8.7	3.0±0.3	-1.7±0.4	-0.56±0.01	-1.18±0.02	0.784±0.007	0.782±0.007	-0.023±0.006	-0.041±0.004
9.8	2.6±0.3	-1.9±0.4	-0.54±0.01	-1.17±0.02	0.797±0.007	0.796±0.007	-0.026±0.006	-0.037±0.004
10.8	2.3±0.3	-2.0±0.4	-0.52±0.01	-1.17±0.02	0.809±0.007	0.808±0.007	-0.028±0.006	-0.032±0.004
11.8	1.9±0.3	-1.9±0.4	-0.50±0.01	-1.18±0.02	0.822±0.007	0.821±0.007	-0.027±0.005	-0.028±0.005
12.8	1.8±0.3	-2.1±0.4	-0.48±0.01	-1.17±0.02	0.830±0.007	0.829±0.007	-0.030±0.005	-0.026±0.005
13.8	1.5±0.3	-2.1±0.4	-0.46±0.01	-1.16±0.02	0.839±0.007	0.838±0.007	-0.031±0.005	-0.022±0.005
16.4	1.0±0.3	-2.0±0.3	-0.42±0.01	-1.16±0.02	0.859±0.007	0.859±0.007	-0.030±0.005	-0.015±0.005
18.9	0.5±0.3	-2.0±0.3	-0.39±0.01	-1.17±0.02	0.880±0.007	0.879±0.007	-0.030±0.005	-0.008±0.005
21.4	0.3±0.3	-1.9±0.3	-0.37±0.01	-1.17±0.02	0.894±0.007	0.893±0.007	-0.030±0.005	-0.004±0.005
24.0	0.1±0.3	-1.8±0.3	-0.34±0.01	-1.17±0.02	0.913±0.007	0.913±0.007	-0.029±0.005	-0.002±0.005
26.5	-0.1±0.3	-1.8±0.3	-0.32±0.01	-1.17±0.02	0.920±0.007	0.920±0.007	-0.029±0.005	0.002±0.005
29.1	-0.3±0.3	-1.7±0.3	-0.30±0.01	-1.17±0.02	0.933±0.007	0.933±0.007	-0.028±0.005	0.004±0.005
31.6	-0.4±0.3	-1.8±0.3	-0.29±0.01	-1.17±0.02	0.942±0.007	0.941±0.007	-0.029±0.005	0.006±0.005
34.1	-0.4±0.3	-1.6±0.3	-0.27±0.01	-1.17±0.02	0.952±0.007	0.952±0.007	-0.027±0.005	0.007±0.005
36.7	-0.6±0.3	-1.6±0.3	-0.24±0.01	-1.17±0.02	0.961±0.007	0.961±0.007	-0.027±0.005	0.010±0.005
39.2	-0.6±0.3	-1.6±0.3	-0.23±0.01	-1.17±0.02	0.968±0.007	0.968±0.007	-0.027±0.005	0.010±0.005
44.3	-0.7±0.3	-1.5±0.3	-0.19±0.01	-1.17±0.02	0.987±0.007	0.986±0.007	-0.026±0.005	0.012±0.005
49.4	-0.7±0.3	-1.4±0.3	-0.16±0.01	-1.16±0.02	0.999±0.007	0.999±0.007	-0.024±0.004	0.012±0.006
54.5	-0.8±0.3	-1.3±0.2	-0.13±0.01	-1.16±0.02	1.017±0.007	1.017±0.007	-0.023±0.004	0.013±0.006
59.5	-0.8±0.3	-1.2±0.2	-0.10±0.01	-1.17±0.02	1.032±0.007	1.032±0.007	-0.022±0.004	0.014±0.006
64.6	-0.8±0.3	-1.1±0.2	-0.07±0.01	-1.17±0.02	1.049±0.007	1.049±0.007	-0.019±0.004	0.014±0.006
69.7	-0.8±0.3	-1.0±0.2	-0.05±0.01	-1.16±0.02	1.056±0.007	1.056±0.007	-0.018±0.004	0.014±0.006
74.8	-0.7±0.3	-0.9±0.2	-0.03±0.01	-1.17±0.02	1.067±0.007	1.067±0.007	-0.017±0.004	0.013±0.006
79.9	-0.7±0.3	-0.7±0.2	-0.01±0.01	-1.16±0.02	1.072±0.007	1.072±0.007	-0.013±0.004	0.013±0.006
84.9	-0.6±0.3	-0.7±0.2	0.00±0.01	-1.16±0.02	1.077±0.007	1.077±0.007	-0.013±0.004	0.012±0.006
90.0	-0.6±0.3	-0.5±0.2	0.00±0.01	-1.17±0.02	1.080±0.007	1.080±0.007	-0.010±0.004	0.012±0.006
100.2	-0.5±0.3	-0.4±0.2	0.01±0.01	-1.17±0.02	1.083±0.007	1.083±0.007	-0.008±0.004	0.009±0.006
110.3	-0.4±0.3	-0.3±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	-0.006±0.004	0.008±0.006
120.5	-0.4±0.3	-0.3±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	-0.005±0.004	0.007±0.006
130.7	-0.2±0.3	-0.2±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	-0.004±0.004	0.004±0.006
140.8	-0.2±0.3	-0.1±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	-0.002±0.004	0.004±0.006

Table B.155 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm,-13 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.5±0.3	0.6±0.5	-0.69±0.01	-1.16±0.02	0.687±0.007	0.685±0.007	0.007±0.006	-0.042±0.004
4.7	3.4±0.3	-0.2±0.5	-0.66±0.01	-1.15±0.02	0.705±0.007	0.703±0.007	-0.003±0.006	-0.041±0.004
5.7	3.1±0.3	-1.0±0.5	-0.63±0.01	-1.16±0.02	0.724±0.007	0.723±0.007	-0.012±0.006	-0.039±0.004
6.7	3.0±0.3	-1.4±0.5	-0.61±0.01	-1.16±0.02	0.745±0.007	0.743±0.007	-0.018±0.006	-0.038±0.004
7.7	2.7±0.3	-1.8±0.4	-0.58±0.01	-1.16±0.02	0.762±0.007	0.761±0.007	-0.024±0.006	-0.036±0.004
8.7	2.5±0.3	-2.0±0.4	-0.57±0.01	-1.16±0.02	0.766±0.007	0.765±0.007	-0.027±0.006	-0.033±0.004
9.8	2.3±0.3	-2.1±0.4	-0.56±0.01	-1.17±0.02	0.784±0.007	0.783±0.007	-0.029±0.006	-0.031±0.004
10.8	2.0±0.3	-2.4±0.4	-0.55±0.01	-1.17±0.02	0.789±0.007	0.788±0.007	-0.032±0.006	-0.027±0.004
11.8	1.8±0.3	-2.4±0.4	-0.52±0.01	-1.16±0.02	0.802±0.007	0.801±0.007	-0.033±0.006	-0.026±0.004
12.8	1.6±0.3	-2.6±0.4	-0.49±0.01	-1.15±0.02	0.808±0.007	0.807±0.007	-0.037±0.005	-0.023±0.004
13.8	1.4±0.3	-2.6±0.4	-0.48±0.01	-1.16±0.02	0.822±0.007	0.821±0.007	-0.037±0.005	-0.021±0.005
16.4	1.0±0.3	-2.6±0.4	-0.44±0.01	-1.16±0.02	0.849±0.007	0.848±0.007	-0.039±0.005	-0.014±0.005
18.9	0.7±0.3	-2.7±0.3	-0.40±0.01	-1.14±0.02	0.858±0.007	0.857±0.007	-0.040±0.005	-0.011±0.005
21.4	0.4±0.3	-2.5±0.3	-0.38±0.01	-1.17±0.02	0.889±0.007	0.888±0.007	-0.039±0.005	-0.006±0.005
24.0	0.1±0.3	-2.5±0.3	-0.35±0.01	-1.16±0.02	0.900±0.007	0.899±0.007	-0.039±0.005	-0.002±0.005
26.5	0.0±0.3	-2.4±0.3	-0.33±0.01	-1.17±0.02	0.915±0.007	0.914±0.007	-0.039±0.005	-0.001±0.005
29.1	-0.1±0.3	-2.4±0.3	-0.29±0.01	-1.15±0.02	0.931±0.007	0.930±0.007	-0.040±0.005	0.002±0.005
31.6	-0.2±0.3	-2.4±0.3	-0.27±0.01	-1.15±0.02	0.939±0.007	0.938±0.007	-0.039±0.005	0.004±0.005
34.1	-0.3±0.3	-2.2±0.3	-0.26±0.01	-1.17±0.02	0.951±0.007	0.950±0.007	-0.036±0.005	0.004±0.005
36.7	-0.4±0.3	-2.2±0.3	-0.25±0.01	-1.16±0.02	0.956±0.007	0.955±0.007	-0.037±0.005	0.006±0.005
39.2	-0.4±0.3	-2.2±0.3	-0.21±0.01	-1.15±0.02	0.971±0.007	0.971±0.007	-0.037±0.005	0.007±0.005
44.3	-0.4±0.3	-1.9±0.3	-0.18±0.01	-1.16±0.02	0.988±0.007	0.988±0.007	-0.033±0.004	0.008±0.005
49.4	-0.5±0.3	-1.9±0.3	-0.15±0.01	-1.16±0.02	1.006±0.007	1.005±0.007	-0.032±0.004	0.008±0.006
54.5	-0.5±0.3	-1.6±0.2	-0.12±0.01	-1.16±0.02	1.016±0.007	1.016±0.007	-0.029±0.004	0.010±0.006
59.5	-0.5±0.3	-1.5±0.2	-0.10±0.01	-1.16±0.02	1.031±0.007	1.030±0.007	-0.027±0.004	0.010±0.006
64.6	-0.6±0.3	-1.4±0.2	-0.07±0.01	-1.15±0.02	1.041±0.007	1.040±0.007	-0.025±0.004	0.010±0.006
69.7	-0.5±0.3	-1.2±0.2	-0.05±0.01	-1.16±0.02	1.053±0.007	1.053±0.007	-0.022±0.004	0.009±0.006
74.8	-0.5±0.3	-1.0±0.2	-0.04±0.01	-1.17±0.02	1.060±0.007	1.060±0.007	-0.018±0.004	0.009±0.006
79.9	-0.5±0.3	-0.8±0.2	-0.02±0.01	-1.16±0.02	1.065±0.007	1.065±0.007	-0.016±0.004	0.009±0.006
84.9	-0.4±0.3	-0.7±0.2	-0.01±0.01	-1.16±0.02	1.070±0.007	1.070±0.007	-0.014±0.004	0.007±0.006
90.0	-0.4±0.3	-0.6±0.2	-0.01±0.01	-1.15±0.02	1.071±0.007	1.071±0.007	-0.012±0.004	0.007±0.006
100.2	-0.4±0.3	-0.5±0.2	-0.01±0.01	-1.16±0.02	1.073±0.007	1.073±0.007	-0.009±0.004	0.007±0.006
110.3	-0.4±0.3	-0.3±0.2	-0.01±0.01	-1.16±0.02	1.071±0.007	1.071±0.007	-0.006±0.004	0.007±0.006
120.5	-0.3±0.3	-0.5±0.2	-0.02±0.01	-1.16±0.02	1.070±0.007	1.070±0.007	-0.009±0.004	0.006±0.006
130.7	-0.1±0.3	-0.3±0.2	-0.04±0.01	-1.16±0.02	1.060±0.007	1.060±0.007	-0.006±0.004	0.003±0.006
140.8	-0.3±0.3	-0.2±0.2	-0.02±0.01	-1.16±0.02	1.068±0.007	1.068±0.007	-0.004±0.004	0.005±0.006

Table B.156 Five-Hole Probe Data for the 4:1 Elliptical Nose Body at (x,z)=(587 mm, 0 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.6±0.3	0.5±0.6	-0.71±0.01	-1.16±0.02	0.672±0.007	0.672±0.007	0.006±0.007	-0.008±0.004
4.7	0.8±0.3	-0.2±0.5	-0.69±0.01	-1.17±0.02	0.690±0.007	0.690±0.007	-0.002±0.006	-0.009±0.004
5.7	0.9±0.3	-1.1±0.5	-0.67±0.01	-1.17±0.02	0.705±0.007	0.705±0.007	-0.014±0.006	-0.011±0.004
6.7	1.1±0.3	-1.6±0.5	-0.64±0.01	-1.16±0.02	0.718±0.007	0.718±0.007	-0.021±0.006	-0.014±0.004
7.7	1.1±0.3	-2.0±0.5	-0.63±0.01	-1.17±0.02	0.732±0.007	0.732±0.007	-0.026±0.006	-0.014±0.004
8.7	1.0±0.3	-2.4±0.5	-0.61±0.01	-1.16±0.02	0.743±0.007	0.742±0.007	-0.031±0.006	-0.014±0.004
9.8	1.2±0.3	-2.7±0.4	-0.59±0.01	-1.17±0.02	0.758±0.007	0.757±0.007	-0.036±0.006	-0.015±0.004
10.8	1.2±0.3	-3.0±0.4	-0.58±0.01	-1.17±0.02	0.767±0.007	0.766±0.007	-0.041±0.006	-0.015±0.004
11.8	1.3±0.3	-3.3±0.4	-0.56±0.01	-1.16±0.02	0.776±0.007	0.775±0.007	-0.045±0.006	-0.018±0.004
12.8	1.3±0.3	-3.4±0.4	-0.55±0.01	-1.16±0.02	0.786±0.007	0.785±0.007	-0.047±0.006	-0.018±0.004
13.8	1.3±0.3	-3.6±0.4	-0.53±0.01	-1.17±0.02	0.797±0.007	0.795±0.007	-0.050±0.006	-0.018±0.004
16.4	1.3±0.3	-3.9±0.4	-0.50±0.01	-1.16±0.02	0.816±0.007	0.814±0.007	-0.055±0.005	-0.018±0.004
18.9	1.3±0.3	-4.1±0.4	-0.48±0.01	-1.17±0.02	0.831±0.007	0.828±0.007	-0.059±0.005	-0.018±0.005
21.4	1.1±0.3	-4.2±0.4	-0.45±0.01	-1.16±0.02	0.842±0.007	0.840±0.007	-0.062±0.005	-0.016±0.005
24.0	1.1±0.3	-4.3±0.4	-0.42±0.01	-1.15±0.02	0.852±0.007	0.849±0.007	-0.064±0.005	-0.017±0.005
26.5	1.1±0.3	-4.3±0.3	-0.42±0.01	-1.17±0.02	0.866±0.007	0.863±0.007	-0.065±0.005	-0.016±0.005
29.1	0.9±0.3	-4.2±0.3	-0.39±0.01	-1.16±0.02	0.877±0.007	0.875±0.007	-0.064±0.005	-0.014±0.005
31.6	0.9±0.3	-4.2±0.3	-0.38±0.01	-1.15±0.02	0.879±0.007	0.877±0.007	-0.064±0.005	-0.013±0.005
34.1	0.8±0.3	-4.1±0.3	-0.37±0.01	-1.17±0.02	0.890±0.007	0.888±0.007	-0.063±0.005	-0.013±0.005
36.7	0.8±0.3	-4.0±0.3	-0.36±0.01	-1.16±0.02	0.895±0.007	0.893±0.007	-0.063±0.005	-0.012±0.005
39.2	0.8±0.3	-3.9±0.3	-0.35±0.01	-1.16±0.02	0.899±0.007	0.897±0.007	-0.061±0.005	-0.012±0.005
44.3	0.6±0.3	-3.6±0.3	-0.34±0.01	-1.16±0.02	0.908±0.007	0.906±0.007	-0.057±0.005	-0.010±0.005
49.4	0.6±0.3	-3.4±0.3	-0.31±0.01	-1.16±0.02	0.921±0.007	0.919±0.007	-0.054±0.005	-0.010±0.005
54.5	0.6±0.3	-3.1±0.3	-0.30±0.01	-1.16±0.02	0.927±0.007	0.926±0.007	-0.051±0.005	-0.010±0.005
59.5	0.6±0.3	-2.8±0.3	-0.28±0.01	-1.16±0.02	0.938±0.007	0.936±0.007	-0.045±0.005	-0.009±0.005
64.6	0.5±0.3	-2.6±0.3	-0.28±0.01	-1.16±0.02	0.941±0.007	0.940±0.007	-0.042±0.005	-0.009±0.005
69.7	0.5±0.3	-2.4±0.3	-0.27±0.01	-1.16±0.02	0.943±0.007	0.943±0.007	-0.040±0.005	-0.009±0.005
74.8	0.5±0.3	-2.2±0.3	-0.27±0.01	-1.16±0.02	0.944±0.007	0.943±0.007	-0.036±0.005	-0.008±0.005
79.9	0.5±0.3	-1.9±0.3	-0.27±0.01	-1.16±0.02	0.945±0.007	0.944±0.007	-0.031±0.005	-0.008±0.005
84.9	0.5±0.3	-1.8±0.3	-0.27±0.01	-1.16±0.02	0.943±0.007	0.942±0.007	-0.029±0.005	-0.009±0.005
90.0	0.5±0.3	-1.6±0.3	-0.28±0.01	-1.16±0.02	0.940±0.007	0.940±0.007	-0.026±0.005	-0.009±0.005
100.2	0.5±0.3	-1.1±0.3	-0.28±0.01	-1.16±0.02	0.939±0.007	0.939±0.007	-0.018±0.005	-0.009±0.005
110.3	0.4±0.3	-0.9±0.3	-0.27±0.01	-1.16±0.02	0.943±0.007	0.943±0.007	-0.015±0.005	-0.007±0.005
120.5	0.4±0.3	-0.5±0.3	-0.28±0.01	-1.17±0.02	0.940±0.007	0.940±0.007	-0.008±0.005	-0.007±0.005
130.7	0.9±0.3	-0.7±0.3	-0.30±0.01	-1.17±0.02	0.931±0.007	0.931±0.007	-0.012±0.005	-0.015±0.005
140.8	0.3±0.3	-0.7±0.3	-0.29±0.01	-1.16±0.02	0.934±0.007	0.934±0.007	-0.012±0.005	-0.005±0.005

Table B.157 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	1.5±0.3	2.3±0.5	-0.73±0.01	-1.28±0.02	0.744±0.007	0.743±0.007	0.030±0.006	-0.020±0.004
4.7	1.7±0.3	1.3±0.4	-0.70±0.01	-1.29±0.02	0.771±0.007	0.770±0.007	0.017±0.006	-0.023±0.004
5.7	1.8±0.3	0.9±0.4	-0.66±0.01	-1.29±0.02	0.788±0.007	0.787±0.007	0.012±0.006	-0.025±0.004
6.7	1.8±0.3	0.8±0.4	-0.64±0.01	-1.29±0.02	0.804±0.007	0.803±0.007	0.012±0.006	-0.025±0.004
7.7	1.9±0.3	0.7±0.4	-0.62±0.01	-1.29±0.02	0.817±0.007	0.816±0.007	0.010±0.005	-0.027±0.005
8.7	1.8±0.3	0.6±0.4	-0.59±0.01	-1.28±0.02	0.830±0.007	0.830±0.007	0.008±0.005	-0.027±0.005
9.8	1.7±0.3	0.5±0.4	-0.58±0.01	-1.29±0.02	0.839±0.007	0.839±0.007	0.007±0.005	-0.025±0.005
10.8	1.7±0.3	0.5±0.4	-0.57±0.01	-1.29±0.02	0.849±0.007	0.848±0.007	0.007±0.005	-0.026±0.005
11.8	1.7±0.3	0.5±0.3	-0.55±0.01	-1.29±0.02	0.862±0.007	0.862±0.007	0.007±0.005	-0.026±0.005
12.8	1.6±0.3	0.5±0.3	-0.54±0.01	-1.29±0.02	0.867±0.007	0.867±0.007	0.007±0.005	-0.024±0.005
13.8	1.5±0.3	0.5±0.3	-0.52±0.01	-1.29±0.02	0.876±0.007	0.876±0.007	0.007±0.005	-0.024±0.005
16.4	1.5±0.3	0.5±0.3	-0.48±0.01	-1.29±0.02	0.897±0.006	0.897±0.006	0.007±0.005	-0.023±0.005
18.9	1.4±0.3	0.4±0.3	-0.46±0.01	-1.29±0.02	0.913±0.006	0.913±0.006	0.007±0.005	-0.023±0.005
21.4	1.3±0.3	0.4±0.3	-0.42±0.01	-1.28±0.02	0.928±0.006	0.927±0.006	0.007±0.005	-0.022±0.005
24.0	1.3±0.3	0.4±0.3	-0.40±0.01	-1.29±0.02	0.945±0.006	0.944±0.006	0.007±0.005	-0.021±0.005
26.5	1.2±0.3	0.5±0.3	-0.37±0.01	-1.28±0.02	0.955±0.006	0.955±0.006	0.008±0.005	-0.020±0.005
29.1	1.2±0.3	0.4±0.3	-0.34±0.01	-1.28±0.02	0.970±0.006	0.970±0.006	0.008±0.005	-0.020±0.005
31.6	1.1±0.3	0.4±0.3	-0.32±0.01	-1.29±0.02	0.983±0.006	0.983±0.006	0.008±0.004	-0.020±0.005
34.1	1.1±0.3	0.4±0.3	-0.30±0.01	-1.28±0.02	0.993±0.006	0.992±0.006	0.008±0.004	-0.019±0.005
36.7	1.1±0.3	0.5±0.3	-0.27±0.01	-1.28±0.02	1.005±0.007	1.005±0.007	0.008±0.004	-0.019±0.006
39.2	1.0±0.3	0.4±0.2	-0.25±0.01	-1.28±0.02	1.015±0.007	1.014±0.007	0.008±0.004	-0.018±0.006
44.3	1.0±0.3	0.4±0.2	-0.21±0.01	-1.28±0.02	1.035±0.007	1.035±0.007	0.008±0.004	-0.018±0.006
49.4	1.0±0.3	0.4±0.2	-0.16±0.01	-1.28±0.02	1.059±0.007	1.059±0.007	0.008±0.004	-0.018±0.006
54.5	1.0±0.3	0.4±0.2	-0.12±0.01	-1.27±0.02	1.073±0.007	1.073±0.007	0.008±0.004	-0.018±0.006
59.5	0.9±0.3	0.5±0.2	-0.09±0.01	-1.28±0.02	1.089±0.007	1.089±0.007	0.009±0.004	-0.017±0.006
64.6	0.9±0.3	0.5±0.2	-0.06±0.01	-1.27±0.02	1.103±0.007	1.103±0.007	0.010±0.004	-0.017±0.006
69.7	0.9±0.3	0.6±0.2	-0.03±0.01	-1.27±0.02	1.114±0.007	1.114±0.007	0.012±0.004	-0.018±0.006
74.8	0.9±0.3	0.6±0.2	-0.01±0.01	-1.27±0.02	1.122±0.007	1.122±0.007	0.012±0.004	-0.018±0.006
79.9	0.9±0.3	0.6±0.2	0.00±0.01	-1.27±0.02	1.127±0.007	1.126±0.007	0.013±0.004	-0.018±0.006
84.9	1.0±0.3	0.6±0.2	0.00±0.01	-1.27±0.02	1.130±0.007	1.130±0.007	0.013±0.004	-0.019±0.006
90.0	1.0±0.3	0.6±0.2	0.01±0.01	-1.27±0.02	1.131±0.007	1.131±0.007	0.013±0.004	-0.019±0.006
100.2	1.0±0.3	0.6±0.2	0.01±0.01	-1.27±0.02	1.130±0.007	1.130±0.007	0.012±0.004	-0.020±0.006
110.3	1.1±0.3	0.5±0.2	0.01±0.01	-1.27±0.02	1.131±0.007	1.130±0.007	0.011±0.004	-0.021±0.006
120.5	1.1±0.3	0.6±0.2	0.01±0.01	-1.27±0.02	1.130±0.007	1.130±0.007	0.011±0.004	-0.021±0.006
130.7	1.1±0.3	0.6±0.2	0.01±0.01	-1.27±0.02	1.129±0.007	1.129±0.007	0.012±0.004	-0.021±0.006
140.8	1.1±0.3	0.5±0.2	0.01±0.01	-1.26±0.02	1.129±0.007	1.128±0.007	0.010±0.004	-0.021±0.006

Table B.158 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	1.7±0.3	1.7±0.4	-0.71±0.01	-1.31±0.02	0.778±0.007	0.778±0.007	0.023±0.006	-0.023±0.004
4.7	1.8±0.3	1.1±0.4	-0.67±0.01	-1.32±0.02	0.804±0.007	0.804±0.007	0.015±0.005	-0.026±0.004
5.7	1.8±0.3	0.8±0.4	-0.65±0.01	-1.33±0.02	0.825±0.007	0.824±0.007	0.011±0.005	-0.026±0.005
6.7	1.9±0.3	0.5±0.4	-0.62±0.01	-1.32±0.02	0.836±0.007	0.836±0.007	0.007±0.005	-0.028±0.005
7.7	1.8±0.3	0.4±0.3	-0.60±0.01	-1.32±0.02	0.850±0.007	0.850±0.006	0.006±0.005	-0.027±0.005
8.7	1.8±0.3	0.4±0.3	-0.58±0.01	-1.32±0.02	0.861±0.006	0.861±0.006	0.006±0.005	-0.027±0.005
9.8	1.7±0.3	0.4±0.3	-0.56±0.01	-1.32±0.02	0.873±0.006	0.872±0.006	0.006±0.005	-0.026±0.005
10.8	1.6±0.3	0.4±0.3	-0.54±0.01	-1.31±0.02	0.879±0.006	0.879±0.006	0.006±0.005	-0.025±0.005
11.8	1.6±0.3	0.4±0.3	-0.53±0.01	-1.32±0.02	0.888±0.006	0.888±0.006	0.006±0.005	-0.024±0.005
12.8	1.5±0.3	0.4±0.3	-0.52±0.01	-1.33±0.02	0.900±0.006	0.900±0.006	0.006±0.005	-0.024±0.005
13.8	1.5±0.3	0.3±0.3	-0.51±0.01	-1.33±0.02	0.908±0.006	0.908±0.006	0.005±0.005	-0.023±0.005
16.4	1.3±0.3	0.4±0.3	-0.47±0.01	-1.32±0.02	0.922±0.006	0.921±0.006	0.006±0.005	-0.021±0.005
18.9	1.2±0.3	0.4±0.3	-0.44±0.01	-1.32±0.02	0.938±0.006	0.937±0.006	0.006±0.005	-0.019±0.005
21.4	1.1±0.3	0.3±0.3	-0.40±0.01	-1.32±0.02	0.955±0.006	0.955±0.006	0.006±0.005	-0.018±0.005
24.0	1.0±0.3	0.4±0.3	-0.38±0.01	-1.32±0.02	0.972±0.006	0.971±0.006	0.006±0.005	-0.018±0.005
26.5	0.9±0.3	0.4±0.3	-0.35±0.01	-1.31±0.02	0.980±0.006	0.980±0.006	0.006±0.004	-0.016±0.005
29.1	0.8±0.3	0.4±0.3	-0.32±0.01	-1.30±0.02	0.991±0.006	0.991±0.006	0.006±0.004	-0.014±0.005
31.6	0.8±0.3	0.4±0.2	-0.31±0.01	-1.32±0.02	1.005±0.006	1.005±0.006	0.007±0.004	-0.014±0.006
34.1	0.7±0.3	0.4±0.2	-0.28±0.01	-1.31±0.02	1.013±0.006	1.013±0.006	0.007±0.004	-0.013±0.006
36.7	0.7±0.3	0.4±0.2	-0.27±0.01	-1.31±0.02	1.023±0.006	1.022±0.006	0.008±0.004	-0.013±0.006
39.2	0.6±0.3	0.4±0.2	-0.24±0.01	-1.30±0.02	1.033±0.007	1.033±0.007	0.008±0.004	-0.011±0.006
44.3	0.6±0.3	0.4±0.2	-0.20±0.01	-1.31±0.02	1.053±0.007	1.052±0.007	0.008±0.004	-0.010±0.006
49.4	0.5±0.3	0.4±0.2	-0.16±0.01	-1.31±0.02	1.074±0.007	1.074±0.007	0.008±0.004	-0.010±0.006
54.5	0.5±0.3	0.4±0.2	-0.13±0.01	-1.31±0.02	1.087±0.007	1.087±0.007	0.008±0.004	-0.009±0.006
59.5	0.5±0.3	0.5±0.2	-0.09±0.01	-1.31±0.02	1.105±0.007	1.105±0.007	0.009±0.004	-0.009±0.006
64.6	0.5±0.3	0.5±0.2	-0.06±0.01	-1.31±0.02	1.118±0.007	1.118±0.007	0.009±0.004	-0.009±0.006
69.7	0.5±0.3	0.6±0.2	-0.04±0.01	-1.31±0.02	1.131±0.007	1.130±0.007	0.011±0.004	-0.009±0.006
74.8	0.5±0.3	0.6±0.2	-0.01±0.01	-1.31±0.02	1.137±0.007	1.137±0.007	0.011±0.004	-0.009±0.006
79.9	0.5±0.3	0.5±0.2	0.00±0.01	-1.30±0.02	1.141±0.007	1.141±0.007	0.011±0.004	-0.009±0.006
84.9	0.5±0.3	0.5±0.2	0.01±0.01	-1.30±0.02	1.143±0.007	1.143±0.007	0.010±0.004	-0.009±0.006
90.0	0.5±0.3	0.5±0.2	0.01±0.01	-1.30±0.02	1.144±0.007	1.144±0.007	0.009±0.004	-0.009±0.006
100.2	0.4±0.3	0.5±0.2	0.01±0.01	-1.30±0.02	1.145±0.007	1.145±0.007	0.011±0.004	-0.008±0.006
110.3	0.5±0.3	0.5±0.2	0.01±0.01	-1.30±0.02	1.144±0.007	1.143±0.007	0.011±0.004	-0.009±0.006
120.5	0.5±0.3	0.5±0.2	0.01±0.01	-1.30±0.02	1.143±0.007	1.143±0.007	0.010±0.004	-0.011±0.006
130.7	0.7±0.3	0.6±0.2	0.01±0.01	-1.30±0.02	1.143±0.007	1.143±0.007	0.011±0.004	-0.013±0.006
140.8	0.6±0.3	0.5±0.2	0.01±0.01	-1.29±0.02	1.142±0.007	1.141±0.007	0.011±0.004	-0.013±0.006

Table B.159 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.3±0.3	1.2±0.4	-0.71±0.01	-1.37±0.02	0.807±0.007	0.806±0.007	0.017±0.005	-0.032±0.004
4.7	2.5±0.3	0.8±0.4	-0.67±0.01	-1.36±0.02	0.830±0.007	0.829±0.007	0.011±0.005	-0.036±0.005
5.7	2.5±0.3	0.5±0.4	-0.64±0.01	-1.36±0.02	0.846±0.007	0.845±0.007	0.007±0.005	-0.037±0.005
6.7	2.5±0.3	0.4±0.3	-0.62±0.01	-1.36±0.02	0.859±0.007	0.858±0.007	0.007±0.005	-0.037±0.005
7.7	2.4±0.3	0.4±0.3	-0.60±0.01	-1.36±0.02	0.870±0.007	0.869±0.007	0.006±0.005	-0.036±0.005
8.7	2.3±0.3	0.4±0.3	-0.58±0.01	-1.37±0.02	0.886±0.006	0.885±0.006	0.006±0.005	-0.036±0.005
9.8	2.2±0.3	0.4±0.3	-0.56±0.01	-1.36±0.02	0.892±0.006	0.892±0.006	0.006±0.005	-0.034±0.005
10.8	2.1±0.3	0.4±0.3	-0.55±0.01	-1.36±0.02	0.900±0.006	0.900±0.006	0.006±0.005	-0.032±0.005
11.8	1.9±0.3	0.4±0.3	-0.53±0.01	-1.35±0.02	0.907±0.006	0.906±0.006	0.006±0.005	-0.031±0.005
12.8	1.9±0.3	0.4±0.3	-0.52±0.01	-1.36±0.02	0.919±0.006	0.918±0.006	0.006±0.005	-0.031±0.005
13.8	1.8±0.3	0.4±0.3	-0.50±0.01	-1.36±0.02	0.927±0.006	0.926±0.006	0.007±0.005	-0.030±0.005
16.4	1.7±0.3	0.4±0.3	-0.47±0.01	-1.35±0.02	0.939±0.006	0.938±0.006	0.007±0.005	-0.028±0.005
18.9	1.6±0.3	0.4±0.3	-0.44±0.01	-1.36±0.02	0.959±0.006	0.959±0.006	0.007±0.005	-0.027±0.005
21.4	1.5±0.3	0.4±0.3	-0.42±0.01	-1.36±0.02	0.972±0.006	0.972±0.006	0.007±0.005	-0.025±0.005
24.0	1.4±0.3	0.4±0.3	-0.39±0.01	-1.36±0.02	0.987±0.006	0.986±0.006	0.007±0.004	-0.024±0.005
26.5	1.3±0.3	0.4±0.3	-0.35±0.01	-1.35±0.02	1.002±0.006	1.002±0.006	0.007±0.004	-0.023±0.006
29.1	1.2±0.3	0.4±0.2	-0.33±0.01	-1.36±0.02	1.013±0.007	1.013±0.007	0.008±0.004	-0.022±0.006
31.6	1.2±0.3	0.4±0.2	-0.31±0.01	-1.36±0.02	1.026±0.007	1.026±0.007	0.007±0.004	-0.021±0.006
34.1	1.1±0.3	0.4±0.2	-0.28±0.01	-1.34±0.02	1.031±0.007	1.030±0.007	0.008±0.004	-0.020±0.006
36.7	1.0±0.3	0.4±0.2	-0.26±0.01	-1.34±0.02	1.041±0.007	1.041±0.007	0.008±0.004	-0.019±0.006
39.2	1.0±0.3	0.5±0.2	-0.24±0.01	-1.35±0.02	1.057±0.007	1.057±0.007	0.008±0.004	-0.019±0.006
44.3	0.9±0.3	0.4±0.2	-0.20±0.01	-1.36±0.02	1.079±0.007	1.078±0.007	0.008±0.004	-0.017±0.006
49.4	0.8±0.3	0.4±0.2	-0.15±0.01	-1.34±0.02	1.090±0.007	1.090±0.007	0.008±0.004	-0.016±0.006
54.5	0.8±0.3	0.5±0.2	-0.11±0.01	-1.34±0.02	1.111±0.007	1.111±0.007	0.009±0.004	-0.015±0.006
59.5	0.7±0.3	0.5±0.2	-0.08±0.01	-1.34±0.02	1.124±0.007	1.124±0.007	0.009±0.004	-0.013±0.006
64.6	0.7±0.3	0.5±0.2	-0.06±0.01	-1.36±0.02	1.138±0.007	1.138±0.007	0.011±0.004	-0.014±0.006
69.7	0.7±0.3	0.5±0.2	-0.03±0.01	-1.34±0.02	1.148±0.007	1.148±0.007	0.010±0.004	-0.014±0.006
74.8	0.6±0.3	0.6±0.2	-0.01±0.01	-1.34±0.02	1.154±0.007	1.154±0.007	0.011±0.004	-0.012±0.006
79.9	0.7±0.3	0.6±0.2	0.00±0.01	-1.35±0.02	1.159±0.007	1.159±0.007	0.012±0.004	-0.014±0.006
84.9	0.7±0.3	0.6±0.2	0.01±0.01	-1.34±0.02	1.161±0.007	1.161±0.007	0.011±0.004	-0.014±0.006
90.0	0.7±0.3	0.6±0.2	0.01±0.01	-1.34±0.02	1.162±0.007	1.162±0.007	0.013±0.004	-0.014±0.006
100.2	0.8±0.3	0.6±0.2	0.01±0.01	-1.34±0.02	1.162±0.007	1.162±0.007	0.012±0.004	-0.015±0.006
110.3	0.8±0.3	0.6±0.2	0.01±0.01	-1.34±0.02	1.161±0.007	1.161±0.007	0.013±0.004	-0.016±0.006
120.5	0.8±0.3	0.6±0.2	0.01±0.01	-1.34±0.02	1.160±0.007	1.160±0.007	0.012±0.004	-0.016±0.006
130.7	0.9±0.3	0.6±0.2	0.01±0.01	-1.34±0.02	1.161±0.007	1.160±0.007	0.012±0.004	-0.017±0.006
140.8	0.9±0.3	0.5±0.2	0.01±0.01	-1.34±0.02	1.160±0.007	1.160±0.007	0.011±0.004	-0.017±0.006

Table B.160 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.3±0.3	2.8±0.4	-0.77±0.01	-1.39±0.02	0.786±0.007	0.783±0.007	0.038±0.006	-0.045±0.004
4.7	3.4±0.3	1.6±0.4	-0.73±0.01	-1.39±0.02	0.813±0.007	0.811±0.007	0.023±0.005	-0.049±0.004
5.7	3.5±0.3	1.2±0.4	-0.71±0.01	-1.40±0.02	0.828±0.007	0.826±0.007	0.017±0.005	-0.051±0.005
6.7	3.4±0.3	1.1±0.4	-0.69±0.01	-1.40±0.02	0.842±0.007	0.841±0.007	0.016±0.005	-0.050±0.005
7.7	3.2±0.3	0.9±0.4	-0.66±0.01	-1.39±0.02	0.853±0.007	0.852±0.007	0.013±0.005	-0.048±0.005
8.7	3.1±0.3	0.9±0.3	-0.64±0.01	-1.40±0.02	0.867±0.007	0.866±0.007	0.014±0.005	-0.047±0.005
9.8	2.9±0.3	0.8±0.3	-0.63±0.01	-1.40±0.02	0.878±0.007	0.877±0.007	0.012±0.005	-0.045±0.005
10.8	2.8±0.3	0.8±0.3	-0.61±0.01	-1.40±0.02	0.891±0.007	0.889±0.007	0.012±0.005	-0.043±0.005
11.8	2.6±0.3	0.8±0.3	-0.59±0.01	-1.40±0.02	0.898±0.007	0.897±0.007	0.012±0.005	-0.040±0.005
12.8	2.5±0.3	0.8±0.3	-0.57±0.01	-1.39±0.02	0.906±0.007	0.905±0.006	0.012±0.005	-0.039±0.005
13.8	2.4±0.3	0.7±0.3	-0.56±0.01	-1.40±0.02	0.916±0.006	0.916±0.006	0.012±0.005	-0.038±0.005
16.4	2.2±0.3	0.7±0.3	-0.51±0.01	-1.40±0.02	0.941±0.006	0.940±0.006	0.012±0.005	-0.036±0.005
18.9	2.0±0.3	0.7±0.3	-0.47±0.01	-1.38±0.02	0.958±0.006	0.957±0.006	0.012±0.005	-0.034±0.005
21.4	1.9±0.3	0.7±0.3	-0.44±0.01	-1.38±0.02	0.973±0.006	0.972±0.006	0.012±0.005	-0.032±0.005
24.0	1.8±0.3	0.7±0.3	-0.40±0.01	-1.38±0.02	0.988±0.007	0.987±0.007	0.011±0.004	-0.030±0.005
26.5	1.6±0.3	0.7±0.3	-0.38±0.01	-1.39±0.02	1.004±0.007	1.003±0.007	0.012±0.004	-0.028±0.006
29.1	1.5±0.3	0.7±0.2	-0.36±0.01	-1.39±0.02	1.017±0.007	1.016±0.007	0.012±0.004	-0.027±0.006
31.6	1.5±0.3	0.6±0.2	-0.32±0.01	-1.38±0.02	1.029±0.007	1.028±0.007	0.011±0.004	-0.026±0.006
34.1	1.3±0.3	0.7±0.2	-0.31±0.01	-1.39±0.02	1.040±0.007	1.039±0.007	0.012±0.004	-0.024±0.006
36.7	1.3±0.3	0.6±0.2	-0.27±0.01	-1.38±0.02	1.050±0.007	1.050±0.007	0.012±0.004	-0.023±0.006
39.2	1.2±0.3	0.6±0.2	-0.26±0.01	-1.39±0.02	1.066±0.007	1.066±0.007	0.012±0.004	-0.023±0.006
44.3	1.1±0.3	0.6±0.2	-0.21±0.01	-1.39±0.02	1.083±0.007	1.083±0.007	0.012±0.004	-0.021±0.006
49.4	1.0±0.3	0.6±0.2	-0.17±0.01	-1.38±0.02	1.098±0.007	1.098±0.007	0.011±0.004	-0.020±0.006
54.5	1.0±0.3	0.6±0.2	-0.13±0.01	-1.38±0.02	1.118±0.007	1.118±0.007	0.011±0.004	-0.019±0.006
59.5	0.9±0.3	0.6±0.2	-0.09±0.01	-1.38±0.02	1.136±0.007	1.136±0.007	0.011±0.004	-0.017±0.006
64.6	0.8±0.3	0.6±0.2	-0.07±0.01	-1.38±0.02	1.147±0.007	1.147±0.007	0.011±0.004	-0.017±0.006
69.7	0.8±0.3	0.6±0.2	-0.03±0.01	-1.37±0.02	1.158±0.007	1.158±0.007	0.012±0.004	-0.016±0.006
74.8	0.8±0.3	0.6±0.2	-0.02±0.01	-1.37±0.02	1.164±0.007	1.164±0.007	0.012±0.004	-0.016±0.006
79.9	0.9±0.3	0.6±0.2	-0.01±0.01	-1.38±0.02	1.173±0.007	1.173±0.007	0.013±0.004	-0.018±0.006
84.9	0.9±0.3	0.6±0.2	0.00±0.01	-1.38±0.02	1.175±0.007	1.174±0.007	0.013±0.004	-0.018±0.006
90.0	0.9±0.3	0.6±0.2	0.01±0.01	-1.37±0.02	1.176±0.007	1.176±0.007	0.013±0.004	-0.019±0.006
100.2	0.9±0.3	0.7±0.2	0.01±0.01	-1.38±0.02	1.177±0.007	1.176±0.007	0.013±0.004	-0.019±0.006
110.3	1.0±0.3	0.6±0.2	0.01±0.01	-1.38±0.02	1.177±0.007	1.177±0.007	0.013±0.004	-0.020±0.006
120.5	1.0±0.3	0.6±0.2	0.01±0.01	-1.37±0.02	1.175±0.007	1.175±0.007	0.013±0.004	-0.020±0.006
130.7	1.0±0.3	0.7±0.2	0.01±0.01	-1.37±0.02	1.175±0.007	1.175±0.007	0.014±0.004	-0.020±0.006
140.8	1.0±0.3	0.7±0.2	0.01±0.01	-1.37±0.02	1.175±0.007	1.174±0.007	0.013±0.004	-0.021±0.006

Table B.161 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-114 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.6±0.3	2.7±0.4	-0.74±0.01	-1.41±0.02	0.820±0.007	0.817±0.007	0.039±0.005	-0.066±0.005
4.7	4.7±0.3	1.6±0.4	-0.70±0.01	-1.42±0.02	0.848±0.007	0.845±0.007	0.023±0.005	-0.070±0.005
5.7	4.7±0.3	1.2±0.3	-0.69±0.01	-1.43±0.02	0.864±0.007	0.861±0.007	0.019±0.005	-0.070±0.005
6.7	4.4±0.3	1.1±0.3	-0.67±0.01	-1.43±0.02	0.872±0.007	0.869±0.007	0.016±0.005	-0.067±0.005
7.7	4.0±0.3	1.0±0.3	-0.66±0.01	-1.43±0.02	0.882±0.007	0.880±0.007	0.016±0.005	-0.062±0.005
8.7	3.8±0.3	0.9±0.3	-0.64±0.01	-1.42±0.02	0.886±0.007	0.884±0.007	0.014±0.005	-0.059±0.005
9.8	3.5±0.3	0.9±0.3	-0.62±0.01	-1.43±0.02	0.899±0.007	0.897±0.007	0.014±0.005	-0.054±0.005
10.8	3.2±0.3	0.8±0.3	-0.61±0.01	-1.43±0.02	0.901±0.007	0.900±0.007	0.013±0.005	-0.050±0.005
11.8	3.0±0.3	0.8±0.3	-0.60±0.01	-1.43±0.02	0.909±0.007	0.908±0.007	0.013±0.005	-0.047±0.005
12.8	2.7±0.3	0.7±0.3	-0.58±0.01	-1.43±0.02	0.920±0.007	0.919±0.007	0.012±0.005	-0.043±0.005
13.8	2.5±0.3	0.7±0.3	-0.56±0.01	-1.42±0.02	0.926±0.007	0.925±0.007	0.012±0.005	-0.041±0.005
16.4	2.2±0.3	0.8±0.3	-0.53±0.01	-1.43±0.02	0.948±0.007	0.947±0.007	0.012±0.005	-0.037±0.005
18.9	1.9±0.3	0.7±0.3	-0.50±0.01	-1.43±0.02	0.965±0.007	0.964±0.007	0.012±0.005	-0.032±0.005
21.4	1.7±0.3	0.7±0.3	-0.45±0.01	-1.43±0.02	0.988±0.007	0.987±0.007	0.012±0.005	-0.030±0.005
24.0	1.6±0.3	0.7±0.3	-0.42±0.01	-1.42±0.02	1.000±0.007	1.000±0.007	0.012±0.004	-0.029±0.006
26.5	1.5±0.3	0.7±0.2	-0.38±0.01	-1.41±0.02	1.014±0.007	1.013±0.007	0.012±0.004	-0.027±0.006
29.1	1.5±0.3	0.7±0.2	-0.35±0.01	-1.42±0.02	1.033±0.007	1.032±0.007	0.012±0.004	-0.027±0.006
31.6	1.4±0.3	0.7±0.2	-0.33±0.01	-1.42±0.02	1.041±0.007	1.041±0.007	0.012±0.004	-0.025±0.006
34.1	1.3±0.3	0.7±0.2	-0.30±0.01	-1.40±0.02	1.049±0.007	1.049±0.007	0.012±0.004	-0.025±0.006
36.7	1.3±0.3	0.6±0.2	-0.29±0.01	-1.42±0.02	1.066±0.007	1.066±0.007	0.012±0.004	-0.024±0.006
39.2	1.2±0.3	0.6±0.2	-0.26±0.01	-1.42±0.02	1.077±0.007	1.077±0.007	0.012±0.004	-0.023±0.006
44.3	1.1±0.3	0.6±0.2	-0.22±0.01	-1.42±0.02	1.095±0.007	1.095±0.007	0.011±0.004	-0.022±0.006
49.4	1.0±0.3	0.6±0.2	-0.18±0.01	-1.42±0.02	1.115±0.007	1.115±0.007	0.011±0.004	-0.020±0.006
54.5	0.9±0.3	0.5±0.2	-0.13±0.01	-1.41±0.02	1.131±0.007	1.131±0.007	0.011±0.004	-0.019±0.006
59.5	0.9±0.3	0.6±0.2	-0.10±0.01	-1.41±0.02	1.145±0.007	1.145±0.007	0.011±0.004	-0.018±0.006
64.6	0.8±0.3	0.5±0.2	-0.07±0.01	-1.42±0.02	1.160±0.007	1.159±0.007	0.011±0.004	-0.017±0.006
69.7	0.8±0.3	0.6±0.2	-0.04±0.01	-1.41±0.02	1.170±0.007	1.170±0.007	0.011±0.004	-0.017±0.006
74.8	0.9±0.3	0.6±0.2	-0.02±0.01	-1.41±0.02	1.179±0.007	1.178±0.007	0.012±0.004	-0.018±0.007
79.9	0.9±0.3	0.6±0.2	-0.01±0.01	-1.41±0.02	1.185±0.007	1.185±0.007	0.013±0.004	-0.018±0.007
84.9	0.9±0.3	0.6±0.2	0.00±0.01	-1.41±0.02	1.188±0.007	1.188±0.007	0.012±0.004	-0.018±0.007
90.0	0.9±0.3	0.6±0.2	0.01±0.01	-1.41±0.02	1.192±0.007	1.192±0.007	0.013±0.004	-0.020±0.007
100.2	1.0±0.3	0.6±0.2	0.01±0.01	-1.41±0.02	1.192±0.007	1.192±0.007	0.013±0.004	-0.020±0.007
110.3	1.0±0.3	0.6±0.2	0.01±0.01	-1.41±0.02	1.191±0.007	1.191±0.007	0.013±0.004	-0.021±0.007
120.5	1.1±0.3	0.6±0.2	0.01±0.01	-1.41±0.02	1.191±0.007	1.191±0.007	0.013±0.004	-0.022±0.007
130.7	1.0±0.3	0.7±0.2	0.01±0.01	-1.41±0.02	1.191±0.007	1.191±0.007	0.015±0.004	-0.021±0.007
140.8	1.0±0.3	0.7±0.2	0.01±0.01	-1.40±0.02	1.190±0.007	1.189±0.007	0.015±0.004	-0.021±0.007

Table B.162 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-108 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.0±0.3	3.7±0.4	-0.73±0.01	-1.42±0.02	0.834±0.007	0.829±0.007	0.053±0.005	-0.073±0.005
4.7	5.1±0.3	2.1±0.3	-0.69±0.01	-1.43±0.02	0.860±0.007	0.856±0.007	0.031±0.005	-0.077±0.005
5.7	5.0±0.3	1.4±0.3	-0.67±0.01	-1.43±0.02	0.874±0.007	0.870±0.007	0.022±0.005	-0.076±0.005
6.7	4.8±0.3	1.1±0.3	-0.64±0.01	-1.43±0.02	0.889±0.007	0.886±0.007	0.017±0.005	-0.074±0.005
7.7	4.4±0.3	0.9±0.3	-0.62±0.01	-1.43±0.02	0.895±0.007	0.893±0.007	0.015±0.005	-0.069±0.005
8.7	4.1±0.3	0.9±0.3	-0.61±0.01	-1.44±0.02	0.906±0.007	0.904±0.007	0.014±0.005	-0.064±0.005
9.8	3.8±0.3	0.8±0.3	-0.60±0.01	-1.43±0.02	0.911±0.007	0.909±0.007	0.012±0.005	-0.061±0.005
10.8	3.5±0.3	0.7±0.3	-0.59±0.01	-1.44±0.02	0.922±0.007	0.920±0.007	0.012±0.005	-0.056±0.005
11.8	3.2±0.3	0.7±0.3	-0.57±0.01	-1.43±0.02	0.928±0.007	0.926±0.007	0.011±0.005	-0.052±0.005
12.8	3.1±0.3	0.7±0.3	-0.55±0.01	-1.43±0.02	0.936±0.007	0.934±0.007	0.012±0.005	-0.050±0.005
13.8	2.8±0.3	0.7±0.3	-0.54±0.01	-1.43±0.02	0.942±0.007	0.941±0.007	0.011±0.005	-0.046±0.005
16.4	2.4±0.3	0.7±0.3	-0.52±0.01	-1.43±0.02	0.956±0.007	0.955±0.007	0.011±0.005	-0.040±0.005
18.9	2.1±0.3	0.7±0.3	-0.47±0.01	-1.42±0.02	0.975±0.007	0.974±0.007	0.012±0.005	-0.036±0.005
21.4	1.9±0.3	0.6±0.3	-0.43±0.01	-1.41±0.02	0.990±0.007	0.989±0.007	0.011±0.005	-0.034±0.005
24.0	1.8±0.3	0.7±0.3	-0.41±0.01	-1.43±0.02	1.006±0.007	1.006±0.007	0.012±0.004	-0.032±0.006
26.5	1.7±0.3	0.7±0.2	-0.38±0.01	-1.41±0.02	1.017±0.007	1.016±0.007	0.012±0.004	-0.030±0.006
29.1	1.6±0.3	0.7±0.2	-0.36±0.01	-1.43±0.02	1.033±0.007	1.033±0.007	0.012±0.004	-0.029±0.006
31.6	1.5±0.3	0.7±0.2	-0.33±0.01	-1.42±0.02	1.040±0.007	1.039±0.007	0.012±0.004	-0.027±0.006
34.1	1.4±0.3	0.6±0.2	-0.30±0.01	-1.41±0.02	1.054±0.007	1.054±0.007	0.011±0.004	-0.026±0.006
36.7	1.4±0.3	0.6±0.2	-0.28±0.01	-1.43±0.02	1.069±0.007	1.069±0.007	0.011±0.004	-0.025±0.006
39.2	1.3±0.3	0.6±0.2	-0.26±0.01	-1.41±0.02	1.075±0.007	1.075±0.007	0.010±0.004	-0.024±0.006
44.3	1.2±0.3	0.5±0.2	-0.21±0.01	-1.41±0.02	1.095±0.007	1.095±0.007	0.010±0.004	-0.023±0.006
49.4	1.1±0.3	0.5±0.2	-0.17±0.01	-1.41±0.02	1.112±0.007	1.112±0.007	0.009±0.004	-0.022±0.006
54.5	1.0±0.3	0.5±0.2	-0.13±0.01	-1.41±0.02	1.131±0.007	1.131±0.007	0.009±0.004	-0.021±0.006
59.5	1.0±0.3	0.5±0.2	-0.10±0.01	-1.42±0.02	1.147±0.007	1.147±0.007	0.009±0.004	-0.021±0.006
64.6	1.0±0.3	0.5±0.2	-0.07±0.01	-1.41±0.02	1.158±0.007	1.158±0.007	0.011±0.004	-0.020±0.006
69.7	1.0±0.3	0.5±0.2	-0.05±0.01	-1.42±0.02	1.170±0.007	1.170±0.007	0.011±0.004	-0.020±0.006
74.8	1.0±0.3	0.5±0.2	-0.02±0.01	-1.41±0.02	1.178±0.007	1.178±0.007	0.010±0.004	-0.020±0.007
79.9	1.0±0.3	0.6±0.2	-0.01±0.01	-1.41±0.02	1.185±0.007	1.185±0.007	0.012±0.004	-0.021±0.007
84.9	1.1±0.3	0.5±0.2	0.00±0.01	-1.42±0.02	1.191±0.007	1.191±0.007	0.011±0.004	-0.022±0.007
90.0	1.1±0.3	0.5±0.2	0.01±0.01	-1.41±0.02	1.192±0.007	1.192±0.007	0.010±0.004	-0.022±0.007
100.2	1.1±0.3	0.6±0.2	0.01±0.01	-1.41±0.02	1.193±0.007	1.193±0.007	0.012±0.004	-0.023±0.007
110.3	1.2±0.3	0.6±0.2	0.01±0.01	-1.41±0.02	1.193±0.007	1.193±0.007	0.012±0.004	-0.025±0.007
120.5	1.2±0.3	0.6±0.2	0.01±0.01	-1.41±0.02	1.193±0.007	1.192±0.007	0.012±0.004	-0.025±0.007
130.7	1.2±0.3	0.6±0.2	0.01±0.01	-1.41±0.02	1.192±0.007	1.191±0.007	0.013±0.004	-0.025±0.007
140.8	1.2±0.3	0.6±0.2	0.01±0.01	-1.41±0.02	1.191±0.007	1.190±0.007	0.012±0.004	-0.025±0.007

Table B.163 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.0±0.3	2.8±0.4	-0.71±0.01	-1.44±0.02	0.856±0.007	0.851±0.007	0.042±0.005	-0.074±0.005
4.7	5.1±0.3	1.8±0.3	-0.67±0.01	-1.44±0.02	0.876±0.007	0.872±0.007	0.028±0.005	-0.077±0.005
5.7	5.0±0.3	1.4±0.3	-0.66±0.01	-1.46±0.02	0.896±0.007	0.892±0.006	0.022±0.005	-0.077±0.005
6.7	4.7±0.3	1.1±0.3	-0.64±0.01	-1.46±0.02	0.908±0.006	0.905±0.006	0.018±0.005	-0.075±0.005
7.7	4.3±0.3	1.0±0.3	-0.62±0.01	-1.46±0.02	0.916±0.006	0.914±0.006	0.017±0.005	-0.069±0.005
8.7	4.0±0.3	1.0±0.3	-0.60±0.01	-1.45±0.02	0.924±0.006	0.921±0.006	0.016±0.005	-0.065±0.005
9.8	3.7±0.3	0.7±0.3	-0.58±0.01	-1.44±0.02	0.928±0.006	0.926±0.006	0.012±0.005	-0.060±0.005
10.8	3.4±0.3	0.7±0.3	-0.57±0.01	-1.46±0.02	0.940±0.006	0.938±0.006	0.012±0.005	-0.057±0.005
11.8	3.2±0.3	0.7±0.3	-0.56±0.01	-1.44±0.02	0.942±0.006	0.941±0.006	0.012±0.005	-0.053±0.005
12.8	3.0±0.3	0.7±0.3	-0.55±0.01	-1.45±0.02	0.951±0.006	0.950±0.006	0.012±0.005	-0.050±0.005
13.8	2.8±0.3	0.7±0.3	-0.52±0.01	-1.44±0.02	0.957±0.006	0.956±0.006	0.011±0.005	-0.046±0.005
16.4	2.4±0.3	0.7±0.3	-0.49±0.01	-1.44±0.02	0.975±0.006	0.974±0.006	0.011±0.005	-0.042±0.005
18.9	2.1±0.3	0.6±0.3	-0.46±0.01	-1.44±0.02	0.993±0.007	0.992±0.007	0.010±0.004	-0.037±0.005
21.4	2.0±0.3	0.6±0.3	-0.44±0.01	-1.45±0.02	1.007±0.007	1.007±0.007	0.011±0.004	-0.035±0.006
24.0	1.8±0.3	0.7±0.2	-0.41±0.01	-1.45±0.02	1.022±0.007	1.022±0.007	0.012±0.004	-0.031±0.006
26.5	1.7±0.3	0.5±0.2	-0.38±0.01	-1.45±0.02	1.033±0.007	1.033±0.007	0.009±0.004	-0.030±0.006
29.1	1.5±0.3	0.6±0.2	-0.36±0.01	-1.45±0.02	1.042±0.007	1.041±0.007	0.012±0.004	-0.027±0.006
31.6	1.4±0.3	0.6±0.2	-0.33±0.01	-1.45±0.02	1.055±0.007	1.055±0.007	0.010±0.004	-0.026±0.006
34.1	1.4±0.3	0.6±0.2	-0.30±0.01	-1.44±0.02	1.067±0.007	1.066±0.007	0.012±0.004	-0.026±0.006
36.7	1.3±0.3	0.5±0.2	-0.27±0.01	-1.43±0.02	1.077±0.007	1.076±0.007	0.010±0.004	-0.025±0.006
39.2	1.3±0.3	0.5±0.2	-0.26±0.01	-1.45±0.02	1.088±0.007	1.088±0.007	0.010±0.004	-0.024±0.006
44.3	1.2±0.3	0.5±0.2	-0.21±0.01	-1.44±0.02	1.109±0.007	1.109±0.007	0.009±0.004	-0.023±0.006
49.4	1.1±0.3	0.4±0.2	-0.16±0.01	-1.43±0.02	1.125±0.007	1.124±0.007	0.009±0.004	-0.022±0.006
54.5	1.1±0.3	0.4±0.2	-0.12±0.01	-1.42±0.02	1.141±0.007	1.141±0.007	0.009±0.004	-0.021±0.006
59.5	1.0±0.3	0.4±0.2	-0.10±0.01	-1.43±0.02	1.155±0.007	1.154±0.007	0.009±0.004	-0.020±0.006
64.6	1.0±0.3	0.4±0.2	-0.07±0.01	-1.44±0.02	1.171±0.007	1.171±0.007	0.009±0.004	-0.020±0.006
69.7	1.0±0.3	0.4±0.2	-0.03±0.01	-1.44±0.02	1.184±0.007	1.184±0.007	0.009±0.004	-0.021±0.007
74.8	1.0±0.3	0.4±0.2	-0.02±0.01	-1.44±0.02	1.190±0.007	1.190±0.007	0.009±0.004	-0.021±0.007
79.9	1.0±0.3	0.4±0.2	-0.01±0.01	-1.44±0.02	1.196±0.007	1.196±0.007	0.009±0.004	-0.022±0.007
84.9	1.1±0.3	0.4±0.2	0.00±0.01	-1.44±0.02	1.201±0.007	1.201±0.007	0.009±0.004	-0.022±0.007
90.0	1.1±0.3	0.4±0.2	0.01±0.01	-1.44±0.02	1.202±0.007	1.202±0.007	0.009±0.004	-0.023±0.007
100.2	1.2±0.3	0.5±0.2	0.01±0.01	-1.44±0.02	1.204±0.007	1.204±0.007	0.010±0.004	-0.025±0.007
110.3	1.2±0.3	0.5±0.2	0.01±0.01	-1.44±0.02	1.205±0.007	1.204±0.007	0.011±0.004	-0.025±0.007
120.5	1.2±0.3	0.5±0.2	0.01±0.01	-1.44±0.02	1.203±0.007	1.203±0.007	0.010±0.004	-0.025±0.007
130.7	1.3±0.3	0.5±0.2	0.01±0.01	-1.44±0.02	1.203±0.007	1.203±0.007	0.010±0.004	-0.026±0.007
140.8	1.2±0.3	0.6±0.2	0.01±0.01	-1.43±0.02	1.201±0.007	1.200±0.007	0.013±0.004	-0.025±0.007

Table B.164 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-95 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.4±0.3	2.8±0.3	-0.70±0.01	-1.46±0.02	0.870±0.007	0.866±0.007	0.043±0.005	-0.082±0.005
4.7	5.4±0.3	1.7±0.3	-0.66±0.01	-1.47±0.02	0.897±0.006	0.892±0.006	0.027±0.005	-0.085±0.005
5.7	5.3±0.3	1.4±0.3	-0.65±0.01	-1.48±0.02	0.913±0.006	0.909±0.006	0.021±0.005	-0.084±0.005
6.7	4.9±0.3	1.2±0.3	-0.62±0.01	-1.47±0.02	0.919±0.006	0.916±0.006	0.019±0.005	-0.079±0.005
7.7	4.6±0.3	1.0±0.3	-0.61±0.01	-1.47±0.02	0.927±0.006	0.924±0.006	0.017±0.005	-0.074±0.005
8.7	4.2±0.3	1.0±0.3	-0.60±0.01	-1.48±0.02	0.937±0.006	0.935±0.006	0.016±0.005	-0.069±0.005
9.8	3.9±0.3	0.9±0.3	-0.58±0.01	-1.47±0.02	0.944±0.006	0.942±0.006	0.015±0.005	-0.064±0.005
10.8	3.6±0.3	0.8±0.3	-0.57±0.01	-1.48±0.02	0.954±0.006	0.952±0.006	0.013±0.005	-0.060±0.005
11.8	3.4±0.3	0.8±0.3	-0.56±0.01	-1.48±0.02	0.961±0.006	0.959±0.006	0.013±0.005	-0.056±0.005
12.8	3.1±0.3	0.7±0.3	-0.54±0.01	-1.47±0.02	0.965±0.006	0.963±0.006	0.012±0.005	-0.052±0.005
13.8	3.0±0.3	0.7±0.3	-0.53±0.01	-1.48±0.02	0.975±0.006	0.974±0.006	0.013±0.005	-0.050±0.005
16.4	2.6±0.3	0.7±0.3	-0.48±0.01	-1.46±0.02	0.989±0.007	0.988±0.006	0.012±0.004	-0.045±0.005
18.9	2.3±0.3	0.7±0.3	-0.46±0.01	-1.45±0.02	0.999±0.007	0.999±0.007	0.012±0.004	-0.040±0.006
21.4	2.1±0.3	0.7±0.2	-0.43±0.01	-1.46±0.02	1.018±0.007	1.017±0.007	0.012±0.004	-0.037±0.006
24.0	2.0±0.3	0.6±0.2	-0.40±0.01	-1.47±0.02	1.031±0.007	1.030±0.007	0.011±0.004	-0.035±0.006
26.5	1.8±0.3	0.6±0.2	-0.38±0.01	-1.48±0.02	1.046±0.007	1.046±0.007	0.011±0.004	-0.034±0.006
29.1	1.7±0.3	0.6±0.2	-0.35±0.01	-1.46±0.02	1.055±0.007	1.055±0.007	0.010±0.004	-0.031±0.006
31.6	1.6±0.3	0.6±0.2	-0.31±0.01	-1.46±0.02	1.070±0.007	1.069±0.007	0.011±0.004	-0.030±0.006
34.1	1.5±0.3	0.5±0.2	-0.30±0.01	-1.47±0.02	1.080±0.007	1.079±0.007	0.009±0.004	-0.029±0.006
36.7	1.4±0.3	0.5±0.2	-0.27±0.01	-1.46±0.02	1.088±0.007	1.088±0.007	0.009±0.004	-0.028±0.006
39.2	1.4±0.3	0.4±0.2	-0.26±0.01	-1.47±0.02	1.100±0.007	1.099±0.007	0.009±0.004	-0.027±0.006
44.3	1.3±0.3	0.4±0.2	-0.21±0.01	-1.46±0.02	1.118±0.007	1.118±0.007	0.009±0.004	-0.025±0.006
49.4	1.2±0.3	0.4±0.2	-0.18±0.01	-1.47±0.02	1.138±0.007	1.138±0.007	0.009±0.004	-0.024±0.006
54.5	1.2±0.3	0.4±0.2	-0.13±0.01	-1.45±0.02	1.151±0.007	1.150±0.007	0.009±0.004	-0.023±0.006
59.5	1.1±0.3	0.4±0.2	-0.09±0.01	-1.46±0.02	1.167±0.007	1.167±0.007	0.009±0.004	-0.023±0.006
64.6	1.1±0.3	0.4±0.2	-0.06±0.01	-1.46±0.02	1.182±0.007	1.182±0.007	0.009±0.004	-0.022±0.007
69.7	1.1±0.3	0.4±0.2	-0.04±0.01	-1.46±0.02	1.192±0.007	1.192±0.007	0.009±0.004	-0.023±0.007
74.8	1.1±0.3	0.4±0.2	-0.02±0.01	-1.47±0.02	1.203±0.007	1.203±0.007	0.009±0.004	-0.023±0.007
79.9	1.2±0.3	0.4±0.2	-0.01±0.01	-1.47±0.02	1.208±0.007	1.208±0.007	0.009±0.004	-0.024±0.007
84.9	1.2±0.3	0.4±0.2	0.00±0.01	-1.46±0.02	1.211±0.007	1.211±0.007	0.009±0.004	-0.025±0.007
90.0	1.2±0.3	0.4±0.2	0.01±0.01	-1.46±0.02	1.213±0.007	1.213±0.007	0.009±0.004	-0.025±0.007
100.2	1.2±0.3	0.4±0.2	0.01±0.01	-1.46±0.02	1.214±0.007	1.213±0.007	0.009±0.004	-0.026±0.007
110.3	1.3±0.3	0.4±0.2	0.01±0.01	-1.46±0.02	1.214±0.007	1.214±0.007	0.010±0.004	-0.028±0.007
120.5	1.3±0.3	0.5±0.2	0.01±0.01	-1.46±0.02	1.212±0.007	1.212±0.007	0.010±0.004	-0.028±0.007
130.7	1.3±0.3	0.4±0.2	0.01±0.01	-1.46±0.02	1.211±0.007	1.211±0.007	0.009±0.004	-0.028±0.007
140.8	1.4±0.3	0.6±0.2	0.01±0.01	-1.46±0.02	1.211±0.007	1.210±0.007	0.012±0.004	-0.030±0.007

Table B.165 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.4±0.3	3.0±0.3	-0.69±0.01	-1.48±0.02	0.888±0.007	0.883±0.006	0.046±0.005	-0.084±0.005
4.7	5.5±0.3	1.9±0.3	-0.66±0.01	-1.49±0.02	0.913±0.006	0.908±0.006	0.030±0.005	-0.087±0.005
5.7	5.3±0.3	1.4±0.3	-0.63±0.01	-1.49±0.02	0.926±0.006	0.922±0.006	0.023±0.005	-0.085±0.005
6.7	4.9±0.3	1.3±0.3	-0.61±0.01	-1.49±0.02	0.934±0.006	0.930±0.006	0.021±0.005	-0.080±0.005
7.7	4.5±0.3	1.0±0.3	-0.60±0.01	-1.49±0.02	0.942±0.006	0.939±0.006	0.017±0.005	-0.074±0.005
8.7	4.2±0.3	1.0±0.3	-0.58±0.01	-1.48±0.02	0.950±0.006	0.948±0.006	0.017±0.005	-0.070±0.005
9.8	3.9±0.3	0.9±0.3	-0.57±0.01	-1.49±0.02	0.958±0.006	0.956±0.006	0.016±0.005	-0.065±0.005
10.8	3.5±0.3	0.8±0.3	-0.56±0.01	-1.49±0.02	0.965±0.006	0.963±0.006	0.014±0.005	-0.060±0.005
11.8	3.3±0.3	0.8±0.3	-0.54±0.01	-1.48±0.02	0.970±0.006	0.969±0.006	0.013±0.005	-0.055±0.005
12.8	3.0±0.3	0.8±0.3	-0.52±0.01	-1.48±0.02	0.983±0.006	0.981±0.006	0.013±0.005	-0.052±0.005
13.8	2.9±0.3	0.7±0.3	-0.51±0.01	-1.49±0.02	0.988±0.007	0.987±0.006	0.013±0.004	-0.049±0.005
16.4	2.5±0.3	0.7±0.3	-0.48±0.01	-1.49±0.02	1.004±0.007	1.003±0.007	0.012±0.004	-0.043±0.006
18.9	2.1±0.3	0.7±0.2	-0.45±0.01	-1.48±0.02	1.017±0.007	1.016±0.007	0.012±0.004	-0.038±0.006
21.4	2.0±0.3	0.6±0.2	-0.41±0.01	-1.47±0.02	1.031±0.007	1.030±0.007	0.012±0.004	-0.036±0.006
24.0	1.9±0.3	0.6±0.2	-0.39±0.01	-1.48±0.02	1.043±0.007	1.043±0.007	0.011±0.004	-0.034±0.006
26.5	1.7±0.3	0.6±0.2	-0.36±0.01	-1.48±0.02	1.055±0.007	1.054±0.007	0.011±0.004	-0.031±0.006
29.1	1.6±0.3	0.6±0.2	-0.33±0.01	-1.47±0.02	1.064±0.007	1.063±0.007	0.010±0.004	-0.030±0.006
31.6	1.5±0.3	0.5±0.2	-0.31±0.01	-1.47±0.02	1.078±0.007	1.077±0.007	0.009±0.004	-0.029±0.006
34.1	1.4±0.3	0.5±0.2	-0.28±0.01	-1.47±0.02	1.090±0.007	1.089±0.007	0.009±0.004	-0.027±0.006
36.7	1.4±0.3	0.5±0.2	-0.27±0.01	-1.47±0.02	1.099±0.007	1.098±0.007	0.009±0.004	-0.026±0.006
39.2	1.3±0.3	0.4±0.2	-0.24±0.01	-1.47±0.02	1.109±0.007	1.109±0.007	0.008±0.004	-0.025±0.006
44.3	1.1±0.3	0.4±0.2	-0.20±0.01	-1.47±0.02	1.125±0.007	1.125±0.007	0.008±0.004	-0.022±0.006
49.4	1.1±0.3	0.4±0.2	-0.16±0.01	-1.48±0.02	1.148±0.007	1.147±0.007	0.008±0.004	-0.022±0.006
54.5	1.0±0.3	0.4±0.2	-0.12±0.01	-1.48±0.02	1.164±0.007	1.164±0.007	0.008±0.004	-0.021±0.006
59.5	1.0±0.3	0.4±0.2	-0.10±0.01	-1.49±0.02	1.179±0.007	1.179±0.007	0.008±0.004	-0.020±0.007
64.6	0.9±0.3	0.4±0.2	-0.07±0.01	-1.48±0.02	1.189±0.007	1.189±0.007	0.008±0.004	-0.020±0.007
69.7	1.0±0.3	0.4±0.2	-0.03±0.01	-1.47±0.02	1.200±0.007	1.200±0.007	0.008±0.004	-0.021±0.007
74.8	1.0±0.3	0.4±0.2	-0.02±0.01	-1.48±0.02	1.211±0.007	1.211±0.007	0.009±0.004	-0.021±0.007
79.9	1.1±0.3	0.4±0.2	-0.01±0.01	-1.48±0.02	1.216±0.007	1.216±0.007	0.008±0.004	-0.022±0.007
84.9	1.0±0.3	0.4±0.2	0.00±0.01	-1.48±0.02	1.219±0.007	1.219±0.007	0.009±0.004	-0.022±0.007
90.0	1.1±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.221±0.007	0.009±0.004	-0.023±0.007
100.2	1.2±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.222±0.007	1.222±0.007	0.008±0.004	-0.026±0.007
110.3	1.2±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.222±0.007	1.222±0.007	0.009±0.004	-0.026±0.007
120.5	1.2±0.3	0.5±0.2	0.01±0.01	-1.48±0.02	1.222±0.007	1.221±0.007	0.010±0.004	-0.026±0.007
130.7	1.3±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.221±0.007	0.009±0.004	-0.028±0.007
140.8	1.4±0.3	0.5±0.2	0.01±0.01	-1.48±0.02	1.220±0.007	1.220±0.007	0.010±0.004	-0.030±0.007

Table B.166 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-83 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.5±0.3	3.2±0.3	-0.68±0.01	-1.48±0.02	0.890±0.007	0.885±0.007	0.050±0.005	-0.086±0.005
4.7	5.6±0.3	2.0±0.3	-0.65±0.01	-1.49±0.02	0.916±0.007	0.911±0.006	0.031±0.005	-0.090±0.005
5.7	5.4±0.3	1.6±0.3	-0.62±0.01	-1.48±0.02	0.930±0.007	0.925±0.006	0.026±0.005	-0.087±0.005
6.7	5.0±0.3	1.3±0.3	-0.60±0.01	-1.49±0.02	0.943±0.007	0.939±0.006	0.021±0.005	-0.082±0.005
7.7	4.6±0.3	1.2±0.3	-0.59±0.01	-1.49±0.02	0.952±0.007	0.948±0.006	0.020±0.005	-0.076±0.005
8.7	4.2±0.3	1.1±0.3	-0.57±0.01	-1.49±0.02	0.955±0.007	0.952±0.006	0.018±0.005	-0.069±0.005
9.8	3.8±0.3	1.0±0.3	-0.55±0.01	-1.48±0.02	0.965±0.007	0.962±0.007	0.017±0.005	-0.065±0.005
10.8	3.5±0.3	1.0±0.3	-0.53±0.01	-1.48±0.02	0.974±0.007	0.972±0.007	0.016±0.005	-0.060±0.005
11.8	3.3±0.3	0.9±0.3	-0.52±0.01	-1.48±0.02	0.979±0.007	0.977±0.007	0.015±0.005	-0.056±0.005
12.8	3.0±0.3	0.8±0.3	-0.51±0.01	-1.48±0.02	0.985±0.007	0.983±0.007	0.014±0.005	-0.051±0.005
13.8	2.8±0.3	0.8±0.3	-0.49±0.01	-1.48±0.02	0.994±0.007	0.993±0.007	0.014±0.004	-0.049±0.005
16.4	2.4±0.3	0.7±0.3	-0.47±0.01	-1.49±0.02	1.010±0.007	1.009±0.007	0.012±0.004	-0.043±0.006
18.9	2.2±0.3	0.7±0.2	-0.43±0.01	-1.47±0.02	1.022±0.007	1.021±0.007	0.012±0.004	-0.038±0.006
21.4	2.0±0.3	0.6±0.2	-0.41±0.01	-1.48±0.02	1.036±0.007	1.035±0.007	0.010±0.004	-0.036±0.006
24.0	1.8±0.3	0.6±0.2	-0.37±0.01	-1.47±0.02	1.048±0.007	1.047±0.007	0.010±0.004	-0.033±0.006
26.5	1.6±0.3	0.5±0.2	-0.35±0.01	-1.47±0.02	1.058±0.007	1.058±0.007	0.010±0.004	-0.030±0.006
29.1	1.5±0.3	0.4±0.2	-0.33±0.01	-1.48±0.02	1.073±0.007	1.072±0.007	0.008±0.004	-0.029±0.006
31.6	1.4±0.3	0.4±0.2	-0.31±0.01	-1.48±0.02	1.082±0.007	1.081±0.007	0.008±0.004	-0.027±0.006
34.1	1.3±0.3	0.4±0.2	-0.27±0.01	-1.46±0.02	1.090±0.007	1.090±0.007	0.008±0.004	-0.025±0.006
36.7	1.3±0.3	0.4±0.2	-0.25±0.01	-1.47±0.02	1.103±0.007	1.102±0.007	0.008±0.004	-0.025±0.006
39.2	1.3±0.3	0.4±0.2	-0.23±0.01	-1.47±0.02	1.112±0.007	1.111±0.007	0.008±0.004	-0.024±0.006
44.3	1.1±0.3	0.4±0.2	-0.19±0.01	-1.47±0.02	1.130±0.007	1.130±0.007	0.007±0.004	-0.022±0.006
49.4	1.0±0.3	0.4±0.2	-0.15±0.01	-1.47±0.02	1.147±0.007	1.146±0.007	0.007±0.004	-0.021±0.006
54.5	1.0±0.3	0.4±0.2	-0.12±0.01	-1.47±0.02	1.163±0.007	1.163±0.007	0.008±0.004	-0.019±0.006
59.5	1.0±0.3	0.4±0.2	-0.08±0.01	-1.47±0.02	1.178±0.007	1.178±0.007	0.008±0.004	-0.021±0.007
64.6	1.0±0.3	0.4±0.2	-0.05±0.01	-1.47±0.02	1.191±0.007	1.190±0.007	0.008±0.004	-0.020±0.007
69.7	1.0±0.3	0.4±0.2	-0.03±0.01	-1.47±0.02	1.203±0.007	1.203±0.007	0.008±0.004	-0.020±0.007
74.8	1.0±0.3	0.4±0.2	-0.02±0.01	-1.48±0.02	1.207±0.007	1.207±0.007	0.008±0.004	-0.021±0.007
79.9	1.0±0.3	0.4±0.2	0.00±0.01	-1.47±0.02	1.213±0.007	1.212±0.007	0.008±0.004	-0.021±0.007
84.9	1.0±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.217±0.007	1.217±0.007	0.008±0.004	-0.022±0.007
90.0	1.1±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.220±0.007	1.220±0.007	0.008±0.004	-0.023±0.007
100.2	1.2±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.221±0.007	0.008±0.004	-0.025±0.007
110.3	1.2±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.220±0.007	0.008±0.004	-0.025±0.007
120.5	1.2±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.221±0.007	0.009±0.004	-0.026±0.007
130.7	1.3±0.3	0.5±0.2	0.01±0.01	-1.48±0.02	1.220±0.007	1.219±0.007	0.010±0.004	-0.027±0.007
140.8	1.4±0.3	0.5±0.2	0.01±0.01	-1.48±0.02	1.219±0.007	1.219±0.007	0.011±0.004	-0.029±0.007

Table B.167 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.1±0.3	3.2±0.3	-0.67±0.01	-1.51±0.02	0.913±0.006	0.907±0.006	0.050±0.005	-0.096±0.005
4.7	6.0±0.3	2.1±0.3	-0.65±0.01	-1.53±0.02	0.939±0.006	0.933±0.006	0.034±0.005	-0.097±0.005
5.7	5.6±0.3	1.7±0.3	-0.62±0.01	-1.52±0.02	0.946±0.006	0.942±0.006	0.028±0.005	-0.092±0.005
6.7	5.1±0.3	1.4±0.3	-0.61±0.01	-1.53±0.02	0.959±0.006	0.955±0.006	0.024±0.005	-0.085±0.005
7.7	4.5±0.3	1.3±0.3	-0.60±0.01	-1.53±0.02	0.967±0.006	0.963±0.006	0.021±0.005	-0.076±0.005
8.7	4.1±0.3	1.2±0.3	-0.58±0.01	-1.52±0.02	0.971±0.006	0.969±0.006	0.020±0.005	-0.069±0.005
9.8	3.7±0.3	1.0±0.3	-0.56±0.01	-1.52±0.02	0.982±0.006	0.980±0.006	0.018±0.005	-0.063±0.005
10.8	3.3±0.3	1.0±0.3	-0.54±0.01	-1.51±0.02	0.987±0.006	0.985±0.006	0.016±0.004	-0.057±0.005
11.8	3.1±0.3	0.9±0.3	-0.53±0.01	-1.52±0.02	0.996±0.006	0.994±0.006	0.016±0.004	-0.053±0.005
12.8	2.9±0.3	0.8±0.3	-0.50±0.01	-1.51±0.02	1.002±0.006	1.001±0.006	0.014±0.004	-0.051±0.006
13.8	2.7±0.3	0.8±0.2	-0.50±0.01	-1.53±0.02	1.012±0.007	1.011±0.006	0.014±0.004	-0.048±0.006
16.4	2.4±0.3	0.7±0.2	-0.46±0.01	-1.52±0.02	1.027±0.007	1.026±0.007	0.012±0.004	-0.042±0.006
18.9	2.1±0.3	0.6±0.2	-0.43±0.01	-1.53±0.02	1.046±0.007	1.046±0.007	0.011±0.004	-0.038±0.006
21.4	1.9±0.3	0.5±0.2	-0.40±0.01	-1.51±0.02	1.054±0.007	1.054±0.007	0.008±0.004	-0.035±0.006
24.0	1.7±0.3	0.4±0.2	-0.38±0.01	-1.52±0.02	1.067±0.007	1.067±0.007	0.008±0.004	-0.032±0.006
26.5	1.6±0.3	0.4±0.2	-0.36±0.01	-1.52±0.02	1.078±0.007	1.078±0.007	0.008±0.004	-0.030±0.006
29.1	1.5±0.3	0.4±0.2	-0.32±0.01	-1.50±0.02	1.090±0.007	1.089±0.007	0.008±0.004	-0.029±0.006
31.6	1.4±0.3	0.4±0.2	-0.29±0.01	-1.50±0.02	1.100±0.007	1.099±0.007	0.007±0.004	-0.027±0.006
34.1	1.3±0.3	0.4±0.2	-0.28±0.01	-1.51±0.02	1.111±0.007	1.111±0.007	0.008±0.004	-0.025±0.006
36.7	1.2±0.3	0.4±0.2	-0.26±0.01	-1.52±0.02	1.122±0.007	1.122±0.007	0.007±0.004	-0.024±0.006
39.2	1.2±0.3	0.4±0.2	-0.24±0.01	-1.50±0.02	1.126±0.007	1.126±0.007	0.007±0.004	-0.024±0.006
44.3	1.1±0.3	0.2±0.2	-0.19±0.01	-1.51±0.02	1.149±0.007	1.148±0.007	0.005±0.004	-0.022±0.006
49.4	1.0±0.3	0.2±0.2	-0.15±0.01	-1.52±0.02	1.167±0.007	1.167±0.007	0.005±0.004	-0.020±0.006
54.5	1.0±0.3	0.2±0.2	-0.12±0.01	-1.52±0.02	1.184±0.007	1.184±0.007	0.005±0.004	-0.020±0.007
59.5	0.9±0.3	0.2±0.2	-0.09±0.01	-1.52±0.02	1.196±0.007	1.196±0.007	0.004±0.004	-0.020±0.007
64.6	0.9±0.3	0.2±0.2	-0.06±0.01	-1.52±0.02	1.207±0.007	1.207±0.007	0.005±0.004	-0.019±0.007
69.7	0.9±0.3	0.3±0.2	-0.04±0.01	-1.52±0.02	1.219±0.007	1.219±0.007	0.006±0.004	-0.020±0.007
74.8	0.9±0.3	0.3±0.2	-0.01±0.01	-1.52±0.02	1.229±0.007	1.229±0.007	0.006±0.004	-0.020±0.007
79.9	1.0±0.3	0.3±0.2	0.00±0.01	-1.53±0.02	1.233±0.007	1.233±0.007	0.007±0.004	-0.022±0.007
84.9	1.0±0.3	0.3±0.2	0.00±0.01	-1.53±0.02	1.236±0.007	1.236±0.007	0.007±0.004	-0.022±0.007
90.0	1.1±0.3	0.4±0.2	0.01±0.01	-1.53±0.02	1.239±0.007	1.239±0.007	0.009±0.004	-0.024±0.007
100.2	1.2±0.3	0.4±0.2	0.01±0.01	-1.53±0.02	1.240±0.007	1.240±0.007	0.008±0.004	-0.025±0.007
110.3	1.2±0.3	0.3±0.2	0.01±0.01	-1.53±0.02	1.240±0.007	1.240±0.007	0.007±0.004	-0.026±0.007
120.5	1.2±0.3	0.4±0.2	0.01±0.01	-1.53±0.02	1.241±0.007	1.240±0.007	0.009±0.004	-0.027±0.007
130.7	1.3±0.3	0.5±0.2	0.01±0.01	-1.53±0.02	1.240±0.007	1.239±0.007	0.010±0.004	-0.028±0.007
140.8	1.3±0.3	0.6±0.2	0.01±0.01	-1.52±0.02	1.237±0.007	1.237±0.007	0.012±0.004	-0.029±0.007

Table B.168 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.4±0.3	3.5±0.3	-0.66±0.01	-1.54±0.02	0.940±0.006	0.933±0.006	0.056±0.005	-0.105±0.005
4.7	6.3±0.3	2.3±0.3	-0.63±0.01	-1.54±0.02	0.957±0.006	0.951±0.006	0.038±0.005	-0.104±0.005
5.7	5.7±0.3	1.8±0.3	-0.61±0.01	-1.54±0.02	0.969±0.006	0.963±0.006	0.030±0.005	-0.096±0.005
6.7	5.2±0.3	1.5±0.3	-0.59±0.01	-1.55±0.02	0.979±0.006	0.974±0.006	0.025±0.005	-0.089±0.005
7.7	4.6±0.3	1.2±0.3	-0.58±0.01	-1.55±0.02	0.984±0.006	0.981±0.006	0.021±0.004	-0.079±0.005
8.7	4.1±0.3	1.1±0.3	-0.57±0.01	-1.55±0.02	0.991±0.006	0.988±0.006	0.019±0.004	-0.071±0.005
9.8	3.8±0.3	1.0±0.3	-0.55±0.01	-1.55±0.02	1.002±0.006	1.000±0.006	0.017±0.004	-0.066±0.006
10.8	3.4±0.3	0.9±0.3	-0.53±0.01	-1.54±0.02	1.003±0.006	1.002±0.006	0.016±0.004	-0.059±0.006
11.8	3.1±0.3	0.8±0.2	-0.51±0.01	-1.54±0.02	1.019±0.007	1.018±0.007	0.014±0.004	-0.056±0.006
12.8	2.9±0.3	0.7±0.2	-0.49±0.01	-1.54±0.02	1.021±0.007	1.020±0.007	0.013±0.004	-0.053±0.006
13.8	2.8±0.3	0.7±0.2	-0.48±0.01	-1.54±0.02	1.030±0.007	1.029±0.007	0.012±0.004	-0.050±0.006
16.4	2.4±0.3	0.5±0.2	-0.44±0.01	-1.53±0.02	1.042±0.007	1.041±0.007	0.010±0.004	-0.044±0.006
18.9	2.2±0.3	0.4±0.2	-0.42±0.01	-1.53±0.02	1.055±0.007	1.054±0.007	0.008±0.004	-0.040±0.006
21.4	2.0±0.3	0.4±0.2	-0.39±0.01	-1.53±0.02	1.071±0.007	1.071±0.007	0.007±0.004	-0.038±0.006
24.0	1.9±0.3	0.4±0.2	-0.36±0.01	-1.54±0.02	1.083±0.007	1.083±0.007	0.007±0.004	-0.036±0.006
26.5	1.8±0.3	0.3±0.2	-0.33±0.01	-1.52±0.02	1.090±0.007	1.090±0.007	0.006±0.004	-0.033±0.006
29.1	1.6±0.3	0.3±0.2	-0.32±0.01	-1.54±0.02	1.104±0.007	1.104±0.007	0.006±0.004	-0.032±0.006
31.6	1.5±0.3	0.2±0.2	-0.28±0.01	-1.53±0.02	1.117±0.007	1.116±0.007	0.005±0.004	-0.030±0.006
34.1	1.5±0.3	0.2±0.2	-0.27±0.01	-1.54±0.02	1.128±0.007	1.127±0.007	0.004±0.004	-0.030±0.006
36.7	1.4±0.3	0.2±0.2	-0.25±0.01	-1.54±0.02	1.138±0.007	1.137±0.007	0.003±0.004	-0.028±0.006
39.2	1.4±0.3	0.2±0.2	-0.22±0.01	-1.55±0.02	1.149±0.007	1.149±0.007	0.003±0.004	-0.028±0.006
44.3	1.3±0.3	0.1±0.2	-0.18±0.01	-1.54±0.02	1.165±0.007	1.165±0.007	0.002±0.004	-0.026±0.006
49.4	1.2±0.3	0.1±0.2	-0.15±0.01	-1.53±0.02	1.177±0.007	1.177±0.007	0.003±0.004	-0.025±0.006
54.5	1.1±0.3	0.1±0.2	-0.11±0.01	-1.54±0.02	1.196±0.007	1.196±0.007	0.002±0.004	-0.024±0.007
59.5	1.1±0.3	0.1±0.2	-0.09±0.01	-1.55±0.02	1.209±0.007	1.209±0.007	0.002±0.004	-0.024±0.007
64.6	1.1±0.3	0.1±0.2	-0.06±0.01	-1.55±0.02	1.222±0.007	1.222±0.007	0.002±0.004	-0.024±0.007
69.7	1.1±0.3	0.1±0.2	-0.03±0.01	-1.55±0.02	1.233±0.007	1.232±0.007	0.002±0.004	-0.025±0.007
74.8	1.2±0.3	0.2±0.2	-0.02±0.01	-1.55±0.02	1.239±0.007	1.239±0.007	0.004±0.004	-0.026±0.007
79.9	1.2±0.3	0.2±0.2	0.00±0.01	-1.55±0.02	1.244±0.007	1.243±0.007	0.004±0.004	-0.026±0.007
84.9	1.3±0.3	0.2±0.2	0.00±0.01	-1.56±0.02	1.248±0.007	1.248±0.007	0.004±0.004	-0.027±0.007
90.0	1.3±0.3	0.2±0.2	0.01±0.01	-1.56±0.02	1.251±0.007	1.251±0.007	0.005±0.004	-0.029±0.007
100.2	1.4±0.3	0.2±0.2	0.01±0.01	-1.56±0.02	1.251±0.007	1.251±0.007	0.005±0.004	-0.030±0.007
110.3	1.4±0.3	0.3±0.2	0.01±0.01	-1.56±0.02	1.251±0.007	1.251±0.007	0.006±0.004	-0.031±0.007
120.5	1.5±0.3	0.4±0.2	0.01±0.01	-1.56±0.02	1.252±0.007	1.252±0.007	0.009±0.004	-0.032±0.007
130.7	1.5±0.3	0.4±0.2	0.01±0.01	-1.55±0.02	1.251±0.007	1.250±0.007	0.009±0.004	-0.033±0.007
140.8	1.6±0.3	0.5±0.2	0.01±0.01	-1.55±0.02	1.250±0.007	1.249±0.007	0.011±0.004	-0.034±0.007

Table B.169 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.4±0.3	3.0±0.3	-0.62±0.01	-1.58±0.02	0.975±0.006	0.968±0.006	0.051±0.005	-0.108±0.005
4.7	6.0±0.3	2.0±0.3	-0.61±0.01	-1.58±0.02	0.988±0.006	0.982±0.006	0.033±0.004	-0.102±0.005
5.7	5.3±0.3	1.5±0.3	-0.59±0.01	-1.58±0.02	0.996±0.006	0.992±0.006	0.026±0.004	-0.092±0.006
6.7	4.7±0.3	1.3±0.3	-0.58±0.01	-1.59±0.02	1.002±0.006	0.999±0.006	0.022±0.004	-0.082±0.006
7.7	4.2±0.3	1.1±0.2	-0.56±0.01	-1.57±0.02	1.008±0.006	1.005±0.006	0.019±0.004	-0.073±0.006
8.7	3.6±0.3	0.9±0.2	-0.55±0.01	-1.59±0.02	1.019±0.007	1.017±0.006	0.016±0.004	-0.064±0.006
9.8	3.2±0.3	0.7±0.2	-0.52±0.01	-1.57±0.02	1.022±0.007	1.020±0.007	0.013±0.004	-0.057±0.006
10.8	2.9±0.3	0.7±0.2	-0.51±0.01	-1.57±0.02	1.027±0.007	1.026±0.007	0.012±0.004	-0.053±0.006
11.8	2.7±0.3	0.6±0.2	-0.49±0.01	-1.56±0.02	1.035±0.007	1.034±0.007	0.011±0.004	-0.049±0.006
12.8	2.5±0.3	0.5±0.2	-0.48±0.01	-1.57±0.02	1.043±0.007	1.042±0.007	0.009±0.004	-0.046±0.006
13.8	2.4±0.3	0.5±0.2	-0.47±0.01	-1.56±0.02	1.047±0.007	1.047±0.007	0.008±0.004	-0.043±0.006
16.4	2.1±0.3	0.4±0.2	-0.43±0.01	-1.57±0.02	1.065±0.007	1.065±0.007	0.008±0.004	-0.039±0.006
18.9	1.9±0.3	0.4±0.2	-0.40±0.01	-1.56±0.02	1.077±0.007	1.076±0.007	0.007±0.004	-0.035±0.006
21.4	1.7±0.3	0.3±0.2	-0.38±0.01	-1.56±0.02	1.087±0.007	1.087±0.007	0.005±0.004	-0.032±0.006
24.0	1.5±0.3	0.2±0.2	-0.34±0.01	-1.55±0.02	1.100±0.007	1.100±0.007	0.004±0.004	-0.029±0.006
26.5	1.4±0.3	0.2±0.2	-0.32±0.01	-1.55±0.02	1.109±0.007	1.109±0.007	0.003±0.004	-0.027±0.006
29.1	1.3±0.3	0.1±0.2	-0.30±0.01	-1.57±0.02	1.126±0.007	1.126±0.007	0.003±0.004	-0.026±0.006
31.6	1.2±0.3	0.0±0.2	-0.28±0.01	-1.56±0.02	1.134±0.007	1.134±0.007	0.001±0.004	-0.024±0.006
34.1	1.1±0.3	0.0±0.2	-0.26±0.01	-1.56±0.02	1.139±0.007	1.139±0.007	0.000±0.004	-0.022±0.006
36.7	1.1±0.3	0.0±0.2	-0.23±0.01	-1.56±0.02	1.152±0.007	1.151±0.007	0.000±0.004	-0.021±0.006
39.2	1.0±0.3	0.0±0.2	-0.21±0.01	-1.56±0.02	1.160±0.007	1.160±0.007	0.000±0.004	-0.021±0.006
44.3	0.9±0.3	0.0±0.2	-0.18±0.01	-1.57±0.02	1.179±0.007	1.179±0.007	-0.001±0.004	-0.020±0.007
49.4	0.9±0.3	0.0±0.2	-0.15±0.01	-1.57±0.02	1.192±0.007	1.192±0.007	-0.001±0.004	-0.018±0.007
54.5	0.8±0.3	0.0±0.2	-0.11±0.01	-1.57±0.02	1.208±0.007	1.208±0.007	0.000±0.004	-0.017±0.007
59.5	0.8±0.3	0.0±0.2	-0.07±0.01	-1.57±0.02	1.224±0.007	1.224±0.007	0.000±0.004	-0.016±0.007
64.6	0.8±0.3	0.0±0.2	-0.05±0.01	-1.58±0.02	1.237±0.007	1.237±0.007	-0.001±0.004	-0.017±0.007
69.7	0.8±0.3	0.1±0.2	-0.03±0.01	-1.59±0.02	1.245±0.007	1.245±0.007	0.001±0.004	-0.017±0.007
74.8	0.8±0.3	0.1±0.2	-0.01±0.01	-1.59±0.02	1.254±0.007	1.254±0.007	0.001±0.004	-0.018±0.007
79.9	0.8±0.3	0.1±0.2	0.00±0.01	-1.58±0.02	1.257±0.007	1.257±0.007	0.001±0.003	-0.018±0.007
84.9	0.9±0.3	0.1±0.2	0.01±0.01	-1.59±0.02	1.262±0.007	1.261±0.007	0.002±0.003	-0.019±0.007
90.0	0.9±0.3	0.1±0.2	0.01±0.01	-1.59±0.02	1.264±0.007	1.264±0.007	0.002±0.003	-0.020±0.007
100.2	1.0±0.3	0.2±0.2	0.01±0.01	-1.59±0.02	1.265±0.007	1.265±0.007	0.005±0.003	-0.023±0.007
110.3	1.1±0.3	0.3±0.2	0.01±0.01	-1.59±0.02	1.264±0.007	1.263±0.007	0.006±0.003	-0.024±0.007
120.5	1.2±0.3	0.4±0.2	0.01±0.01	-1.59±0.02	1.265±0.007	1.264±0.007	0.008±0.003	-0.027±0.007
130.7	1.4±0.3	0.4±0.2	0.01±0.01	-1.59±0.02	1.265±0.007	1.264±0.007	0.008±0.003	-0.030±0.007
140.8	1.4±0.3	0.5±0.2	0.01±0.01	-1.59±0.02	1.263±0.007	1.263±0.007	0.011±0.003	-0.031±0.007

Table B.170 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.3±0.3	3.1±0.3	-0.58±0.01	-1.60±0.02	1.009±0.006	1.001±0.006	0.055±0.004	-0.111±0.006
4.7	5.8±0.3	2.0±0.2	-0.57±0.01	-1.61±0.02	1.018±0.007	1.012±0.007	0.035±0.004	-0.102±0.006
5.7	5.2±0.3	1.5±0.2	-0.56±0.01	-1.60±0.02	1.023±0.007	1.018±0.007	0.027±0.004	-0.092±0.006
6.7	4.5±0.3	1.1±0.2	-0.55±0.01	-1.61±0.02	1.027±0.007	1.024±0.007	0.021±0.004	-0.081±0.006
7.7	3.9±0.3	0.9±0.2	-0.53±0.01	-1.61±0.02	1.037±0.007	1.034±0.007	0.016±0.004	-0.071±0.006
8.7	3.5±0.3	0.7±0.2	-0.52±0.01	-1.60±0.02	1.040±0.007	1.038±0.007	0.013±0.004	-0.064±0.006
9.8	3.2±0.3	0.6±0.2	-0.50±0.01	-1.59±0.02	1.044±0.007	1.043±0.007	0.011±0.004	-0.058±0.006
10.8	2.9±0.3	0.5±0.2	-0.48±0.01	-1.60±0.02	1.055±0.007	1.054±0.007	0.010±0.004	-0.054±0.006
11.8	2.7±0.3	0.4±0.2	-0.47±0.01	-1.59±0.02	1.060±0.007	1.058±0.007	0.007±0.004	-0.050±0.006
12.8	2.6±0.3	0.4±0.2	-0.45±0.01	-1.58±0.02	1.061±0.007	1.060±0.007	0.007±0.004	-0.048±0.006
13.8	2.5±0.3	0.4±0.2	-0.43±0.01	-1.58±0.02	1.072±0.007	1.071±0.007	0.007±0.004	-0.046±0.006
16.4	2.1±0.3	0.2±0.2	-0.41±0.01	-1.58±0.02	1.082±0.007	1.081±0.007	0.004±0.004	-0.040±0.006
18.9	1.9±0.3	0.2±0.2	-0.38±0.01	-1.59±0.02	1.098±0.007	1.097±0.007	0.003±0.004	-0.037±0.006
21.4	1.8±0.3	0.1±0.2	-0.35±0.01	-1.58±0.02	1.109±0.007	1.108±0.007	0.001±0.004	-0.034±0.006
24.0	1.6±0.3	0.0±0.2	-0.33±0.01	-1.59±0.02	1.122±0.007	1.121±0.007	0.000±0.004	-0.032±0.006
26.5	1.5±0.3	0.0±0.2	-0.30±0.01	-1.59±0.02	1.133±0.007	1.132±0.007	0.000±0.004	-0.029±0.006
29.1	1.4±0.3	-0.1±0.2	-0.28±0.01	-1.59±0.02	1.144±0.007	1.143±0.007	-0.003±0.004	-0.028±0.006
31.6	1.3±0.3	-0.2±0.2	-0.27±0.01	-1.60±0.02	1.153±0.007	1.153±0.007	-0.003±0.004	-0.027±0.006
34.1	1.2±0.3	-0.2±0.2	-0.23±0.01	-1.59±0.02	1.162±0.007	1.162±0.007	-0.004±0.004	-0.025±0.006
36.7	1.2±0.3	-0.2±0.2	-0.23±0.01	-1.60±0.02	1.171±0.007	1.171±0.007	-0.004±0.004	-0.024±0.006
39.2	1.1±0.3	-0.3±0.2	-0.20±0.01	-1.59±0.02	1.177±0.007	1.177±0.007	-0.006±0.004	-0.022±0.006
44.3	1.0±0.3	-0.3±0.2	-0.17±0.01	-1.60±0.02	1.197±0.007	1.197±0.007	-0.006±0.004	-0.021±0.007
49.4	0.9±0.3	-0.3±0.2	-0.13±0.01	-1.60±0.02	1.212±0.007	1.212±0.007	-0.006±0.004	-0.020±0.007
54.5	0.9±0.3	-0.3±0.2	-0.11±0.01	-1.60±0.02	1.224±0.007	1.224±0.007	-0.006±0.004	-0.019±0.007
59.5	0.9±0.3	-0.2±0.2	-0.07±0.01	-1.61±0.02	1.240±0.007	1.240±0.007	-0.005±0.004	-0.020±0.007
64.6	0.9±0.3	-0.2±0.2	-0.04±0.01	-1.61±0.02	1.252±0.007	1.252±0.007	-0.005±0.004	-0.020±0.007
69.7	0.9±0.3	-0.2±0.2	-0.03±0.01	-1.61±0.02	1.259±0.007	1.259±0.007	-0.004±0.003	-0.021±0.007
74.8	0.9±0.3	-0.2±0.2	-0.01±0.01	-1.61±0.02	1.267±0.007	1.267±0.007	-0.003±0.003	-0.021±0.007
79.9	1.0±0.3	-0.1±0.2	0.00±0.01	-1.62±0.02	1.274±0.007	1.273±0.007	-0.002±0.003	-0.023±0.007
84.9	1.0±0.3	-0.1±0.2	0.01±0.01	-1.62±0.02	1.275±0.007	1.275±0.007	-0.001±0.003	-0.023±0.007
90.0	1.1±0.3	0.0±0.2	0.01±0.01	-1.63±0.02	1.278±0.007	1.278±0.007	-0.001±0.003	-0.024±0.007
100.2	1.2±0.3	0.1±0.2	0.01±0.01	-1.63±0.02	1.280±0.007	1.280±0.007	0.002±0.003	-0.027±0.007
110.3	1.3±0.3	0.2±0.2	0.01±0.01	-1.63±0.02	1.280±0.007	1.280±0.007	0.005±0.003	-0.028±0.007
120.5	1.3±0.3	0.2±0.2	0.01±0.01	-1.63±0.02	1.280±0.007	1.280±0.007	0.004±0.003	-0.028±0.007
130.7	1.4±0.3	0.4±0.2	0.01±0.01	-1.63±0.02	1.280±0.007	1.280±0.007	0.008±0.003	-0.031±0.007
140.8	1.4±0.3	0.4±0.2	0.01±0.01	-1.63±0.02	1.279±0.007	1.278±0.007	0.010±0.003	-0.032±0.007

Table B.171 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.6±0.3	3.0±0.2	-0.53±0.01	-1.62±0.02	1.045±0.007	1.039±0.007	0.054±0.004	-0.101±0.006
4.7	5.0±0.3	1.8±0.2	-0.53±0.01	-1.64±0.02	1.052±0.007	1.048±0.007	0.034±0.004	-0.091±0.006
5.7	4.4±0.3	1.4±0.2	-0.53±0.01	-1.63±0.02	1.051±0.007	1.047±0.007	0.025±0.004	-0.081±0.006
6.7	3.9±0.3	1.0±0.2	-0.51±0.01	-1.62±0.02	1.056±0.007	1.053±0.007	0.018±0.004	-0.072±0.006
7.7	3.5±0.3	0.7±0.2	-0.48±0.01	-1.62±0.02	1.065±0.007	1.063±0.007	0.012±0.004	-0.065±0.006
8.7	3.2±0.3	0.5±0.2	-0.48±0.01	-1.63±0.02	1.072±0.007	1.070±0.007	0.009±0.004	-0.060±0.006
9.8	3.0±0.3	0.4±0.2	-0.46±0.01	-1.62±0.02	1.077±0.007	1.075±0.007	0.007±0.004	-0.056±0.006
10.8	2.7±0.3	0.4±0.2	-0.45±0.01	-1.62±0.02	1.081±0.007	1.080±0.007	0.007±0.004	-0.051±0.006
11.8	2.5±0.3	0.2±0.2	-0.43±0.01	-1.62±0.02	1.090±0.007	1.089±0.007	0.004±0.004	-0.048±0.006
12.8	2.4±0.3	0.2±0.2	-0.43±0.01	-1.62±0.02	1.092±0.007	1.091±0.007	0.003±0.004	-0.046±0.006
13.8	2.3±0.3	0.1±0.2	-0.41±0.01	-1.62±0.02	1.098±0.007	1.097±0.007	0.002±0.004	-0.045±0.006
16.4	2.0±0.3	0.0±0.2	-0.38±0.01	-1.61±0.02	1.107±0.007	1.106±0.007	-0.001±0.004	-0.039±0.006
18.9	1.8±0.3	-0.1±0.2	-0.37±0.01	-1.63±0.02	1.122±0.007	1.121±0.007	-0.003±0.004	-0.036±0.006
21.4	1.6±0.3	-0.2±0.2	-0.33±0.01	-1.61±0.02	1.131±0.007	1.131±0.007	-0.004±0.004	-0.032±0.006
24.0	1.5±0.3	-0.4±0.2	-0.31±0.01	-1.63±0.02	1.146±0.007	1.146±0.007	-0.007±0.004	-0.031±0.006
26.5	1.4±0.3	-0.4±0.2	-0.29±0.01	-1.62±0.02	1.154±0.007	1.154±0.007	-0.008±0.004	-0.029±0.006
29.1	1.3±0.3	-0.4±0.2	-0.27±0.01	-1.63±0.02	1.168±0.007	1.167±0.007	-0.009±0.004	-0.026±0.006
31.6	1.2±0.3	-0.5±0.2	-0.25±0.01	-1.63±0.02	1.172±0.007	1.172±0.007	-0.011±0.004	-0.025±0.006
34.1	1.2±0.3	-0.6±0.2	-0.23±0.01	-1.64±0.02	1.187±0.007	1.187±0.007	-0.012±0.004	-0.024±0.007
36.7	1.1±0.3	-0.6±0.2	-0.21±0.01	-1.63±0.02	1.190±0.007	1.190±0.007	-0.012±0.004	-0.023±0.007
39.2	1.0±0.3	-0.6±0.2	-0.19±0.01	-1.64±0.02	1.201±0.007	1.201±0.007	-0.013±0.004	-0.021±0.007
44.3	0.9±0.3	-0.6±0.2	-0.16±0.01	-1.65±0.02	1.220±0.007	1.220±0.007	-0.013±0.004	-0.020±0.007
49.4	0.9±0.3	-0.6±0.2	-0.13±0.01	-1.65±0.02	1.232±0.007	1.232±0.007	-0.013±0.004	-0.020±0.007
54.5	0.9±0.3	-0.6±0.2	-0.09±0.01	-1.65±0.02	1.247±0.007	1.247±0.007	-0.012±0.004	-0.020±0.007
59.5	0.9±0.3	-0.5±0.2	-0.07±0.01	-1.67±0.02	1.264±0.007	1.264±0.007	-0.011±0.003	-0.019±0.007
64.6	0.9±0.3	-0.5±0.2	-0.04±0.01	-1.66±0.02	1.272±0.007	1.272±0.007	-0.012±0.003	-0.020±0.007
69.7	0.9±0.3	-0.5±0.2	-0.02±0.01	-1.67±0.02	1.283±0.007	1.282±0.007	-0.010±0.003	-0.021±0.007
74.8	0.9±0.3	-0.4±0.2	-0.01±0.01	-1.67±0.02	1.289±0.007	1.289±0.007	-0.008±0.003	-0.021±0.007
79.9	1.0±0.3	-0.3±0.2	0.00±0.01	-1.67±0.02	1.294±0.007	1.294±0.007	-0.008±0.003	-0.022±0.007
84.9	1.0±0.3	-0.2±0.1	0.01±0.01	-1.68±0.02	1.297±0.007	1.297±0.007	-0.004±0.003	-0.023±0.007
90.0	1.1±0.3	-0.2±0.1	0.01±0.01	-1.68±0.02	1.300±0.007	1.299±0.007	-0.005±0.003	-0.025±0.007
100.2	1.1±0.3	-0.1±0.1	0.01±0.01	-1.68±0.02	1.300±0.007	1.300±0.007	-0.003±0.003	-0.026±0.007
110.3	1.2±0.3	0.0±0.1	0.01±0.01	-1.69±0.02	1.302±0.007	1.302±0.007	0.001±0.003	-0.027±0.007
120.5	1.3±0.3	0.1±0.1	0.01±0.01	-1.69±0.02	1.303±0.007	1.302±0.007	0.002±0.003	-0.029±0.007
130.7	1.3±0.3	0.2±0.1	0.01±0.01	-1.68±0.02	1.302±0.007	1.302±0.007	0.006±0.003	-0.031±0.007
140.8	1.4±0.3	0.3±0.1	0.01±0.01	-1.68±0.02	1.301±0.007	1.301±0.007	0.006±0.003	-0.032±0.007

Table B.172 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(142 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.3±0.3	2.7±0.2	-0.46±0.01	-1.62±0.02	1.076±0.007	1.072±0.007	0.050±0.004	-0.080±0.006
4.7	3.9±0.3	1.6±0.2	-0.45±0.01	-1.62±0.02	1.079±0.007	1.076±0.007	0.029±0.004	-0.073±0.006
5.7	3.6±0.3	0.9±0.2	-0.47±0.01	-1.65±0.02	1.086±0.007	1.084±0.007	0.018±0.004	-0.068±0.006
6.7	3.3±0.3	0.5±0.2	-0.43±0.01	-1.62±0.02	1.090±0.007	1.089±0.007	0.010±0.004	-0.063±0.006
7.7	3.1±0.3	0.3±0.2	-0.42±0.01	-1.63±0.02	1.099±0.007	1.098±0.007	0.006±0.004	-0.059±0.006
8.7	2.8±0.3	0.1±0.2	-0.43±0.01	-1.64±0.02	1.101±0.007	1.099±0.007	0.003±0.004	-0.055±0.006
9.8	2.7±0.3	0.0±0.2	-0.41±0.01	-1.62±0.02	1.100±0.007	1.099±0.007	-0.001±0.004	-0.051±0.006
10.8	2.5±0.3	-0.2±0.2	-0.39±0.01	-1.63±0.02	1.113±0.007	1.112±0.007	-0.004±0.004	-0.049±0.006
11.8	2.4±0.3	-0.3±0.2	-0.39±0.01	-1.64±0.02	1.116±0.007	1.115±0.007	-0.005±0.004	-0.046±0.006
12.8	2.2±0.3	-0.4±0.2	-0.38±0.01	-1.63±0.02	1.118±0.007	1.118±0.007	-0.007±0.004	-0.044±0.006
13.8	2.2±0.3	-0.4±0.2	-0.38±0.01	-1.63±0.02	1.118±0.007	1.117±0.007	-0.009±0.004	-0.042±0.006
16.4	1.9±0.3	-0.6±0.2	-0.34±0.01	-1.63±0.02	1.134±0.007	1.134±0.007	-0.012±0.004	-0.038±0.006
18.9	1.7±0.3	-0.8±0.2	-0.33±0.01	-1.63±0.02	1.139±0.007	1.139±0.007	-0.016±0.004	-0.034±0.006
21.4	1.6±0.3	-0.9±0.2	-0.30±0.01	-1.63±0.02	1.153±0.007	1.153±0.007	-0.019±0.004	-0.032±0.006
24.0	1.5±0.3	-1.0±0.2	-0.28±0.01	-1.64±0.02	1.168±0.007	1.167±0.007	-0.021±0.004	-0.031±0.006
26.5	1.4±0.3	-1.0±0.2	-0.29±0.01	-1.66±0.02	1.171±0.007	1.171±0.007	-0.021±0.004	-0.028±0.006
29.1	1.3±0.3	-1.2±0.2	-0.25±0.01	-1.64±0.02	1.178±0.007	1.177±0.007	-0.024±0.004	-0.027±0.006
31.6	1.3±0.3	-1.2±0.2	-0.24±0.01	-1.67±0.02	1.197±0.007	1.197±0.007	-0.025±0.004	-0.026±0.007
34.1	1.2±0.3	-1.2±0.2	-0.21±0.01	-1.65±0.02	1.200±0.007	1.200±0.007	-0.025±0.004	-0.025±0.007
36.7	1.1±0.3	-1.2±0.2	-0.19±0.01	-1.66±0.02	1.211±0.007	1.210±0.007	-0.026±0.004	-0.024±0.007
39.2	1.1±0.3	-1.2±0.2	-0.17±0.01	-1.66±0.02	1.223±0.007	1.222±0.007	-0.026±0.004	-0.023±0.007
44.3	1.0±0.3	-1.3±0.2	-0.15±0.01	-1.67±0.02	1.232±0.007	1.232±0.007	-0.027±0.004	-0.021±0.007
49.4	1.0±0.3	-1.2±0.2	-0.11±0.01	-1.68±0.02	1.253±0.007	1.252±0.007	-0.026±0.004	-0.021±0.007
54.5	0.9±0.3	-1.1±0.2	-0.09±0.01	-1.67±0.02	1.258±0.007	1.258±0.007	-0.025±0.003	-0.020±0.007
59.5	0.9±0.3	-1.0±0.2	-0.06±0.01	-1.68±0.02	1.272±0.007	1.272±0.007	-0.023±0.003	-0.021±0.007
64.6	0.9±0.3	-1.0±0.2	-0.04±0.01	-1.69±0.02	1.285±0.007	1.285±0.007	-0.021±0.003	-0.020±0.007
69.7	0.9±0.3	-0.9±0.2	-0.02±0.01	-1.69±0.02	1.293±0.007	1.292±0.007	-0.019±0.003	-0.021±0.007
74.8	1.0±0.3	-0.8±0.1	-0.01±0.01	-1.70±0.02	1.302±0.007	1.301±0.007	-0.017±0.003	-0.022±0.007
79.9	1.0±0.3	-0.7±0.1	0.00±0.01	-1.71±0.02	1.307±0.007	1.307±0.007	-0.016±0.003	-0.023±0.007
84.9	1.1±0.3	-0.6±0.1	0.00±0.01	-1.72±0.02	1.311±0.007	1.310±0.007	-0.014±0.003	-0.025±0.007
90.0	1.1±0.3	-0.6±0.1	0.01±0.01	-1.71±0.02	1.313±0.007	1.312±0.007	-0.013±0.003	-0.025±0.007
100.2	1.2±0.3	-0.4±0.1	0.01±0.01	-1.72±0.02	1.316±0.007	1.315±0.007	-0.010±0.003	-0.027±0.007
110.3	1.1±0.3	-0.3±0.1	0.01±0.01	-1.72±0.02	1.316±0.007	1.316±0.007	-0.007±0.003	-0.026±0.007
120.5	1.3±0.3	-0.3±0.1	0.01±0.01	-1.72±0.02	1.316±0.007	1.315±0.007	-0.006±0.003	-0.029±0.007
130.7	1.3±0.3	-0.1±0.1	0.01±0.01	-1.72±0.02	1.315±0.007	1.315±0.007	-0.003±0.003	-0.031±0.007
140.8	1.3±0.3	0.0±0.1	0.01±0.01	-1.72±0.02	1.315±0.007	1.314±0.007	-0.001±0.003	-0.031±0.007

Table B.173 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.7±0.3	1.6±0.6	-0.77±0.01	-1.22±0.02	0.670±0.007	0.669±0.007	0.018±0.007	0.031±0.004
4.7	-2.5±0.3	0.8±0.5	-0.73±0.01	-1.22±0.02	0.701±0.007	0.700±0.007	0.010±0.006	0.031±0.004
5.7	-2.3±0.3	0.4±0.5	-0.69±0.01	-1.21±0.02	0.722±0.007	0.722±0.007	0.005±0.006	0.029±0.004
6.7	-2.2±0.3	0.3±0.5	-0.66±0.01	-1.21±0.02	0.744±0.007	0.743±0.007	0.004±0.006	0.029±0.004
7.7	-2.2±0.3	0.2±0.4	-0.64±0.01	-1.21±0.02	0.758±0.007	0.757±0.007	0.002±0.006	0.029±0.004
8.7	-2.1±0.3	0.1±0.4	-0.63±0.01	-1.23±0.02	0.777±0.007	0.777±0.007	0.001±0.006	0.028±0.004
9.8	-2.0±0.3	0.0±0.4	-0.59±0.01	-1.22±0.02	0.793±0.007	0.792±0.007	0.000±0.006	0.027±0.004
10.8	-1.8±0.3	0.0±0.4	-0.58±0.01	-1.22±0.02	0.797±0.007	0.797±0.007	-0.001±0.006	0.026±0.004
11.8	-1.8±0.3	0.0±0.4	-0.56±0.01	-1.21±0.02	0.809±0.007	0.808±0.007	0.000±0.005	0.025±0.004
12.8	-1.7±0.3	0.0±0.4	-0.54±0.01	-1.22±0.02	0.824±0.007	0.824±0.007	0.000±0.005	0.025±0.005
13.8	-1.7±0.3	0.1±0.4	-0.54±0.01	-1.23±0.02	0.834±0.007	0.834±0.007	0.001±0.005	0.025±0.005
16.4	-1.6±0.3	0.0±0.3	-0.49±0.01	-1.21±0.02	0.854±0.007	0.854±0.007	0.001±0.005	0.024±0.005
18.9	-1.5±0.3	0.0±0.3	-0.47±0.01	-1.22±0.02	0.867±0.007	0.867±0.007	0.001±0.005	0.023±0.005
21.4	-1.5±0.3	0.2±0.3	-0.45±0.01	-1.23±0.02	0.887±0.006	0.886±0.006	0.003±0.005	0.023±0.005
24.0	-1.4±0.3	0.1±0.3	-0.42±0.01	-1.23±0.02	0.901±0.006	0.901±0.006	0.002±0.005	0.023±0.005
26.5	-1.4±0.3	0.3±0.3	-0.39±0.01	-1.22±0.02	0.914±0.006	0.914±0.006	0.004±0.005	0.023±0.005
29.1	-1.4±0.3	0.2±0.3	-0.35±0.01	-1.21±0.02	0.926±0.006	0.926±0.006	0.003±0.005	0.023±0.005
31.6	-1.3±0.3	0.2±0.3	-0.33±0.01	-1.22±0.02	0.944±0.006	0.943±0.006	0.004±0.005	0.022±0.005
34.1	-1.3±0.3	0.3±0.3	-0.30±0.01	-1.20±0.02	0.949±0.006	0.948±0.006	0.005±0.005	0.022±0.005
36.7	-1.4±0.3	0.3±0.3	-0.29±0.01	-1.22±0.02	0.964±0.006	0.963±0.006	0.004±0.005	0.023±0.005
39.2	-1.3±0.3	0.3±0.3	-0.27±0.01	-1.23±0.02	0.981±0.006	0.981±0.006	0.005±0.004	0.023±0.005
44.3	-1.3±0.3	0.4±0.3	-0.23±0.01	-1.23±0.02	1.001±0.006	1.000±0.006	0.006±0.004	0.023±0.006
49.4	-1.2±0.3	0.4±0.2	-0.17±0.01	-1.22±0.02	1.022±0.007	1.021±0.007	0.007±0.004	0.022±0.006
54.5	-1.2±0.3	0.4±0.2	-0.15±0.01	-1.22±0.02	1.038±0.007	1.038±0.007	0.007±0.004	0.022±0.006
59.5	-1.2±0.3	0.4±0.2	-0.10±0.01	-1.21±0.02	1.056±0.007	1.056±0.007	0.007±0.004	0.022±0.006
64.6	-1.1±0.3	0.4±0.2	-0.07±0.01	-1.21±0.02	1.067±0.007	1.067±0.007	0.007±0.004	0.021±0.006
69.7	-1.1±0.3	0.4±0.2	-0.04±0.01	-1.22±0.02	1.084±0.007	1.084±0.007	0.007±0.004	0.021±0.006
74.8	-1.0±0.3	0.4±0.2	-0.02±0.01	-1.21±0.02	1.092±0.007	1.092±0.007	0.008±0.004	0.020±0.006
79.9	-1.0±0.3	0.4±0.2	-0.01±0.01	-1.21±0.02	1.098±0.007	1.098±0.007	0.008±0.004	0.020±0.006
84.9	-1.0±0.3	0.4±0.2	0.00±0.01	-1.21±0.02	1.102±0.007	1.102±0.007	0.008±0.004	0.019±0.006
90.0	-1.0±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.105±0.007	1.105±0.007	0.009±0.004	0.019±0.006
100.2	-0.9±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.107±0.007	1.107±0.007	0.008±0.004	0.017±0.006
110.3	-0.9±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.107±0.007	1.107±0.007	0.007±0.004	0.017±0.006
120.5	-0.9±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.107±0.007	1.107±0.007	0.007±0.004	0.017±0.006
130.7	-0.8±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.107±0.007	1.107±0.007	0.007±0.004	0.015±0.006
140.8	-0.8±0.3	0.3±0.2	0.01±0.01	-1.22±0.02	1.107±0.007	1.106±0.007	0.006±0.004	0.016±0.006

Table B.174 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.7±0.3	1.6±0.6	-0.74±0.01	-1.17±0.02	0.652±0.007	0.651±0.007	0.018±0.007	0.031±0.004
4.7	-2.6±0.3	0.7±0.5	-0.70±0.01	-1.17±0.02	0.685±0.007	0.684±0.007	0.008±0.006	0.031±0.004
5.7	-2.5±0.3	0.4±0.5	-0.67±0.01	-1.17±0.02	0.708±0.007	0.707±0.007	0.005±0.006	0.030±0.004
6.7	-2.3±0.3	0.3±0.5	-0.64±0.01	-1.17±0.02	0.730±0.007	0.729±0.007	0.004±0.006	0.029±0.004
7.7	-2.2±0.3	0.1±0.4	-0.61±0.01	-1.18±0.02	0.751±0.007	0.751±0.007	0.002±0.006	0.028±0.004
8.7	-2.0±0.3	0.0±0.4	-0.59±0.01	-1.16±0.02	0.759±0.007	0.758±0.007	0.000±0.006	0.027±0.004
9.8	-2.0±0.3	0.0±0.4	-0.57±0.01	-1.18±0.02	0.779±0.007	0.779±0.007	0.000±0.005	0.028±0.004
10.8	-2.0±0.3	0.0±0.4	-0.56±0.01	-1.18±0.02	0.789±0.007	0.788±0.007	0.000±0.005	0.027±0.004
11.8	-1.9±0.3	0.0±0.4	-0.53±0.01	-1.17±0.02	0.797±0.006	0.796±0.006	0.000±0.005	0.026±0.004
12.8	-1.8±0.3	0.0±0.4	-0.52±0.01	-1.17±0.02	0.810±0.006	0.810±0.006	0.000±0.005	0.026±0.004
13.8	-1.8±0.3	0.1±0.4	-0.51±0.01	-1.17±0.02	0.817±0.006	0.817±0.006	0.001±0.005	0.026±0.005
16.4	-1.7±0.3	0.1±0.3	-0.48±0.01	-1.18±0.02	0.837±0.006	0.836±0.006	0.002±0.005	0.025±0.005
18.9	-1.7±0.3	0.1±0.3	-0.44±0.01	-1.17±0.02	0.852±0.006	0.851±0.006	0.002±0.005	0.025±0.005
21.4	-1.6±0.3	0.1±0.3	-0.42±0.01	-1.18±0.02	0.868±0.006	0.868±0.006	0.001±0.005	0.025±0.005
24.0	-1.7±0.3	0.2±0.3	-0.39±0.01	-1.17±0.02	0.883±0.006	0.882±0.006	0.003±0.005	0.027±0.005
26.5	-1.7±0.3	0.2±0.3	-0.37±0.01	-1.17±0.02	0.895±0.006	0.894±0.006	0.003±0.005	0.026±0.005
29.1	-1.6±0.3	0.1±0.3	-0.33±0.01	-1.16±0.02	0.911±0.006	0.910±0.006	0.002±0.005	0.026±0.005
31.6	-1.7±0.3	0.2±0.3	-0.32±0.01	-1.17±0.02	0.921±0.006	0.920±0.006	0.004±0.005	0.027±0.005
34.1	-1.7±0.3	0.3±0.3	-0.31±0.01	-1.17±0.02	0.932±0.006	0.932±0.006	0.004±0.005	0.028±0.005
36.7	-1.6±0.3	0.3±0.3	-0.27±0.01	-1.17±0.02	0.947±0.006	0.947±0.006	0.005±0.004	0.026±0.005
39.2	-1.6±0.3	0.3±0.3	-0.26±0.01	-1.18±0.02	0.961±0.006	0.961±0.006	0.005±0.004	0.027±0.005
44.3	-1.6±0.3	0.4±0.3	-0.22±0.01	-1.17±0.02	0.978±0.006	0.977±0.006	0.006±0.004	0.027±0.005
49.4	-1.6±0.3	0.4±0.2	-0.17±0.01	-1.17±0.02	0.997±0.006	0.997±0.006	0.006±0.004	0.027±0.006
54.5	-1.5±0.3	0.4±0.2	-0.13±0.01	-1.17±0.02	1.018±0.006	1.017±0.006	0.007±0.004	0.027±0.006
59.5	-1.5±0.3	0.4±0.2	-0.09±0.01	-1.16±0.02	1.035±0.006	1.034±0.006	0.007±0.004	0.028±0.006
64.6	-1.4±0.3	0.4±0.2	-0.06±0.01	-1.16±0.02	1.048±0.006	1.047±0.006	0.007±0.004	0.026±0.006
69.7	-1.4±0.3	0.4±0.2	-0.05±0.01	-1.17±0.02	1.060±0.006	1.060±0.006	0.007±0.004	0.026±0.006
74.8	-1.3±0.3	0.4±0.2	-0.02±0.01	-1.17±0.02	1.071±0.006	1.071±0.006	0.007±0.004	0.025±0.006
79.9	-1.3±0.3	0.4±0.2	-0.01±0.01	-1.17±0.02	1.077±0.007	1.077±0.007	0.008±0.004	0.025±0.006
84.9	-1.3±0.3	0.4±0.2	0.00±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.008±0.004	0.025±0.006
90.0	-1.3±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.007±0.004	0.025±0.006
100.2	-1.3±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.007±0.004	0.025±0.006
110.3	-1.2±0.3	0.3±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.005±0.004	0.023±0.006
120.5	-1.2±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.083±0.007	1.083±0.007	0.003±0.004	0.022±0.006
130.7	-1.1±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	0.003±0.004	0.021±0.006
140.8	-1.1±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	0.003±0.004	0.021±0.006

Table B.175 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.4±0.3	1.7±0.6	-0.77±0.01	-1.20±0.02	0.656±0.007	0.655±0.007	0.020±0.007	0.039±0.004
4.7	-3.3±0.3	0.8±0.5	-0.72±0.01	-1.21±0.02	0.695±0.007	0.694±0.007	0.010±0.006	0.040±0.004
5.7	-3.2±0.3	0.3±0.5	-0.69±0.01	-1.21±0.02	0.722±0.007	0.721±0.007	0.004±0.006	0.040±0.004
6.7	-3.0±0.3	0.3±0.5	-0.66±0.01	-1.22±0.02	0.748±0.007	0.747±0.007	0.004±0.006	0.039±0.004
7.7	-2.9±0.3	0.1±0.4	-0.63±0.01	-1.20±0.02	0.757±0.007	0.756±0.007	0.001±0.006	0.038±0.004
8.7	-2.7±0.3	0.0±0.4	-0.61±0.01	-1.21±0.02	0.776±0.007	0.775±0.007	0.000±0.006	0.037±0.004
9.8	-2.6±0.3	0.0±0.4	-0.59±0.01	-1.21±0.02	0.790±0.007	0.789±0.007	0.000±0.006	0.036±0.004
10.8	-2.5±0.3	0.0±0.4	-0.56±0.01	-1.21±0.02	0.805±0.007	0.804±0.007	0.000±0.005	0.035±0.004
11.8	-2.5±0.3	0.0±0.4	-0.55±0.01	-1.21±0.02	0.816±0.007	0.815±0.007	0.000±0.005	0.035±0.005
12.8	-2.5±0.3	0.0±0.4	-0.53±0.01	-1.22±0.02	0.827±0.007	0.826±0.007	0.000±0.005	0.035±0.005
13.8	-2.3±0.3	0.0±0.4	-0.52±0.01	-1.21±0.02	0.834±0.007	0.834±0.007	0.000±0.005	0.034±0.005
16.4	-2.3±0.3	0.0±0.3	-0.49±0.01	-1.21±0.02	0.851±0.007	0.850±0.007	0.000±0.005	0.034±0.005
18.9	-2.2±0.3	0.0±0.3	-0.45±0.01	-1.21±0.02	0.871±0.006	0.870±0.006	0.001±0.005	0.034±0.005
21.4	-2.3±0.3	0.1±0.3	-0.43±0.01	-1.21±0.02	0.885±0.006	0.884±0.006	0.001±0.005	0.035±0.005
24.0	-2.2±0.3	0.1±0.3	-0.40±0.01	-1.21±0.02	0.899±0.006	0.899±0.006	0.001±0.005	0.035±0.005
26.5	-2.2±0.3	0.1±0.3	-0.37±0.01	-1.21±0.02	0.913±0.006	0.912±0.006	0.001±0.005	0.035±0.005
29.1	-2.2±0.3	0.2±0.3	-0.35±0.01	-1.21±0.02	0.927±0.006	0.926±0.006	0.002±0.005	0.036±0.005
31.6	-2.2±0.3	0.2±0.3	-0.33±0.01	-1.22±0.02	0.944±0.006	0.943±0.006	0.003±0.005	0.036±0.005
34.1	-2.2±0.3	0.1±0.3	-0.30±0.01	-1.21±0.02	0.953±0.006	0.952±0.006	0.002±0.005	0.036±0.005
36.7	-2.1±0.3	0.2±0.3	-0.28±0.01	-1.21±0.02	0.964±0.006	0.964±0.006	0.004±0.005	0.035±0.005
39.2	-2.2±0.3	0.3±0.3	-0.26±0.01	-1.20±0.02	0.972±0.006	0.971±0.006	0.005±0.005	0.037±0.005
44.3	-2.1±0.3	0.4±0.3	-0.21±0.01	-1.21±0.02	1.002±0.006	1.001±0.006	0.006±0.004	0.037±0.006
49.4	-2.1±0.3	0.3±0.2	-0.17±0.01	-1.20±0.02	1.015±0.007	1.015±0.007	0.006±0.004	0.036±0.006
54.5	-2.1±0.3	0.4±0.2	-0.14±0.01	-1.21±0.02	1.035±0.007	1.035±0.007	0.007±0.004	0.037±0.006
59.5	-2.0±0.3	0.4±0.2	-0.10±0.01	-1.20±0.02	1.051±0.007	1.050±0.007	0.007±0.004	0.036±0.006
64.6	-2.0±0.3	0.4±0.2	-0.07±0.01	-1.21±0.02	1.071±0.007	1.070±0.007	0.007±0.004	0.037±0.006
69.7	-1.9±0.3	0.4±0.2	-0.04±0.01	-1.20±0.02	1.080±0.007	1.080±0.007	0.007±0.004	0.037±0.006
74.8	-1.9±0.3	0.4±0.2	-0.02±0.01	-1.21±0.02	1.090±0.007	1.089±0.007	0.007±0.004	0.036±0.006
79.9	-1.9±0.3	0.4±0.2	-0.01±0.01	-1.21±0.02	1.096±0.007	1.095±0.007	0.008±0.004	0.036±0.006
84.9	-1.9±0.3	0.4±0.2	0.00±0.01	-1.21±0.02	1.099±0.007	1.099±0.007	0.007±0.004	0.036±0.006
90.0	-1.8±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.101±0.007	1.100±0.007	0.007±0.004	0.036±0.006
100.2	-1.8±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.102±0.007	1.101±0.007	0.007±0.004	0.035±0.006
110.3	-1.8±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.101±0.007	1.100±0.007	0.007±0.004	0.034±0.006
120.5	-1.7±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.101±0.007	1.101±0.007	0.007±0.004	0.032±0.006
130.7	-1.6±0.3	0.2±0.2	0.01±0.01	-1.20±0.02	1.101±0.007	1.100±0.007	0.004±0.004	0.031±0.006
140.8	-1.7±0.3	0.1±0.2	0.01±0.01	-1.20±0.02	1.101±0.007	1.100±0.007	0.002±0.004	0.032±0.006

Table B.176 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.9±0.3	1.8±0.6	-0.80±0.01	-1.19±0.02	0.628±0.007	0.627±0.007	0.020±0.007	0.043±0.003
4.7	-3.6±0.3	0.8±0.6	-0.76±0.01	-1.21±0.02	0.670±0.007	0.668±0.007	0.010±0.007	0.042±0.004
5.7	-3.6±0.3	0.4±0.5	-0.73±0.01	-1.20±0.02	0.691±0.007	0.689±0.007	0.004±0.006	0.043±0.004
6.7	-3.4±0.3	0.3±0.5	-0.70±0.01	-1.21±0.02	0.717±0.007	0.716±0.007	0.004±0.006	0.042±0.004
7.7	-3.3±0.3	0.2±0.5	-0.67±0.01	-1.20±0.02	0.730±0.007	0.728±0.007	0.002±0.006	0.042±0.004
8.7	-3.1±0.3	0.0±0.5	-0.64±0.01	-1.20±0.02	0.749±0.007	0.748±0.007	0.001±0.006	0.040±0.004
9.8	-3.0±0.3	0.0±0.4	-0.62±0.01	-1.21±0.02	0.763±0.007	0.762±0.007	0.000±0.006	0.039±0.004
10.8	-2.9±0.3	0.0±0.4	-0.60±0.01	-1.21±0.02	0.777±0.007	0.776±0.007	0.000±0.006	0.040±0.004
11.8	-2.8±0.3	0.0±0.4	-0.59±0.01	-1.20±0.02	0.785±0.007	0.784±0.007	0.000±0.006	0.038±0.004
12.8	-2.7±0.3	0.0±0.4	-0.57±0.01	-1.20±0.02	0.790±0.007	0.789±0.007	0.000±0.006	0.037±0.004
13.8	-2.6±0.3	0.1±0.4	-0.55±0.01	-1.21±0.02	0.809±0.007	0.808±0.007	0.001±0.005	0.037±0.004
16.4	-2.5±0.3	0.1±0.4	-0.52±0.01	-1.20±0.02	0.825±0.007	0.824±0.007	0.002±0.005	0.036±0.005
18.9	-2.4±0.3	0.2±0.4	-0.49±0.01	-1.20±0.02	0.842±0.007	0.841±0.007	0.003±0.005	0.035±0.005
21.4	-2.4±0.3	0.3±0.3	-0.46±0.01	-1.20±0.02	0.860±0.007	0.859±0.007	0.004±0.005	0.036±0.005
24.0	-2.3±0.3	0.3±0.3	-0.43±0.01	-1.20±0.02	0.877±0.006	0.876±0.006	0.005±0.005	0.036±0.005
26.5	-2.4±0.3	0.4±0.3	-0.41±0.01	-1.20±0.02	0.889±0.006	0.888±0.006	0.005±0.005	0.037±0.005
29.1	-2.4±0.3	0.3±0.3	-0.38±0.01	-1.20±0.02	0.906±0.006	0.906±0.006	0.006±0.005	0.038±0.005
31.6	-2.4±0.3	0.3±0.3	-0.35±0.01	-1.20±0.02	0.921±0.006	0.920±0.006	0.005±0.005	0.038±0.005
34.1	-2.3±0.3	0.4±0.3	-0.32±0.01	-1.20±0.02	0.935±0.006	0.935±0.006	0.006±0.005	0.038±0.005
36.7	-2.3±0.3	0.4±0.3	-0.31±0.01	-1.21±0.02	0.950±0.006	0.949±0.006	0.006±0.005	0.038±0.005
39.2	-2.3±0.3	0.4±0.3	-0.28±0.01	-1.20±0.02	0.960±0.006	0.959±0.006	0.007±0.005	0.039±0.005
44.3	-2.3±0.3	0.4±0.3	-0.24±0.01	-1.21±0.02	0.987±0.006	0.986±0.006	0.007±0.004	0.039±0.005
49.4	-2.3±0.3	0.4±0.3	-0.19±0.01	-1.20±0.02	1.005±0.006	1.004±0.006	0.008±0.004	0.040±0.006
54.5	-2.2±0.3	0.4±0.2	-0.15±0.01	-1.20±0.02	1.021±0.007	1.020±0.007	0.008±0.004	0.040±0.006
59.5	-2.3±0.3	0.4±0.2	-0.11±0.01	-1.20±0.02	1.044±0.007	1.043±0.007	0.008±0.004	0.041±0.006
64.6	-2.3±0.3	0.4±0.2	-0.08±0.01	-1.20±0.02	1.057±0.007	1.056±0.007	0.008±0.004	0.042±0.006
69.7	-2.2±0.3	0.4±0.2	-0.05±0.01	-1.20±0.02	1.071±0.007	1.070±0.007	0.008±0.004	0.041±0.006
74.8	-2.2±0.3	0.4±0.2	-0.03±0.01	-1.20±0.02	1.081±0.007	1.080±0.007	0.008±0.004	0.041±0.006
79.9	-2.2±0.3	0.4±0.2	-0.02±0.01	-1.20±0.02	1.089±0.007	1.088±0.007	0.008±0.004	0.041±0.006
84.9	-2.1±0.3	0.4±0.2	0.00±0.01	-1.19±0.02	1.093±0.007	1.092±0.007	0.008±0.004	0.040±0.006
90.0	-2.1±0.3	0.4±0.2	0.00±0.01	-1.20±0.02	1.095±0.007	1.095±0.007	0.008±0.004	0.040±0.006
100.2	-2.1±0.3	0.4±0.2	0.01±0.01	-1.19±0.02	1.096±0.007	1.095±0.007	0.008±0.004	0.040±0.006
110.3	-2.0±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.097±0.007	1.097±0.007	0.007±0.004	0.038±0.006
120.5	-1.9±0.3	0.2±0.2	0.01±0.01	-1.20±0.02	1.097±0.007	1.096±0.007	0.005±0.004	0.037±0.006
130.7	-1.9±0.3	0.2±0.2	0.01±0.01	-1.20±0.02	1.097±0.007	1.096±0.007	0.003±0.004	0.037±0.006
140.8	-1.9±0.3	0.1±0.2	0.01±0.01	-1.19±0.02	1.097±0.007	1.096±0.007	0.001±0.004	0.036±0.006

Table B.177 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.9±0.3	2.0±0.8	-0.84±0.01	-1.16±0.02	0.568±0.008	0.567±0.008	0.020±0.008	0.029±0.003
4.7	-2.9±0.3	0.7±0.7	-0.80±0.01	-1.17±0.02	0.604±0.008	0.603±0.008	0.007±0.007	0.030±0.003
5.7	-2.8±0.3	0.4±0.6	-0.77±0.01	-1.17±0.02	0.634±0.007	0.633±0.007	0.005±0.007	0.030±0.004
6.7	-2.6±0.3	0.3±0.6	-0.74±0.01	-1.17±0.02	0.658±0.007	0.658±0.007	0.003±0.007	0.030±0.004
7.7	-2.5±0.3	0.3±0.5	-0.71±0.01	-1.18±0.02	0.685±0.007	0.684±0.007	0.004±0.006	0.030±0.004
8.7	-2.5±0.3	0.3±0.5	-0.68±0.01	-1.18±0.02	0.707±0.007	0.706±0.007	0.004±0.006	0.031±0.004
9.8	-2.4±0.3	0.3±0.5	-0.66±0.01	-1.18±0.02	0.722±0.007	0.722±0.007	0.004±0.006	0.031±0.004
10.8	-2.3±0.3	0.3±0.5	-0.63±0.01	-1.17±0.02	0.738±0.007	0.738±0.007	0.004±0.006	0.030±0.004
11.8	-2.2±0.3	0.3±0.5	-0.60±0.01	-1.16±0.02	0.749±0.007	0.749±0.007	0.004±0.006	0.029±0.004
12.8	-2.3±0.3	0.3±0.4	-0.59±0.01	-1.16±0.02	0.758±0.007	0.757±0.007	0.004±0.006	0.030±0.004
13.8	-2.3±0.3	0.3±0.4	-0.58±0.01	-1.17±0.02	0.771±0.007	0.770±0.007	0.005±0.006	0.031±0.004
16.4	-2.4±0.3	0.4±0.4	-0.54±0.01	-1.17±0.02	0.793±0.007	0.792±0.007	0.006±0.006	0.033±0.004
18.9	-2.4±0.3	0.4±0.4	-0.52±0.01	-1.17±0.02	0.808±0.007	0.808±0.007	0.006±0.005	0.034±0.004
21.4	-2.5±0.3	0.5±0.4	-0.49±0.01	-1.18±0.02	0.825±0.007	0.824±0.007	0.007±0.005	0.035±0.005
24.0	-2.6±0.3	0.5±0.4	-0.47±0.01	-1.17±0.02	0.842±0.007	0.841±0.007	0.008±0.005	0.038±0.005
26.5	-2.6±0.3	0.5±0.3	-0.43±0.01	-1.17±0.02	0.862±0.007	0.861±0.007	0.007±0.005	0.040±0.005
29.1	-2.6±0.3	0.5±0.3	-0.41±0.01	-1.17±0.02	0.874±0.007	0.873±0.006	0.007±0.005	0.040±0.005
31.6	-2.6±0.3	0.6±0.3	-0.37±0.01	-1.16±0.02	0.888±0.006	0.887±0.006	0.010±0.005	0.041±0.005
34.1	-2.6±0.3	0.5±0.3	-0.36±0.01	-1.17±0.02	0.901±0.006	0.900±0.006	0.008±0.005	0.042±0.005
36.7	-2.6±0.3	0.5±0.3	-0.32±0.01	-1.15±0.02	0.913±0.006	0.912±0.006	0.008±0.005	0.042±0.005
39.2	-2.6±0.3	0.6±0.3	-0.29±0.01	-1.15±0.02	0.930±0.006	0.929±0.006	0.009±0.005	0.042±0.005
44.3	-2.6±0.3	0.6±0.3	-0.25±0.01	-1.17±0.02	0.959±0.006	0.958±0.006	0.010±0.005	0.044±0.005
49.4	-2.6±0.3	0.6±0.3	-0.22±0.01	-1.17±0.02	0.977±0.006	0.976±0.006	0.010±0.005	0.044±0.005
54.5	-2.5±0.3	0.6±0.3	-0.16±0.01	-1.15±0.02	0.994±0.006	0.993±0.006	0.011±0.004	0.043±0.005
59.5	-2.5±0.3	0.6±0.2	-0.13±0.01	-1.16±0.02	1.018±0.007	1.017±0.007	0.010±0.004	0.045±0.006
64.6	-2.4±0.3	0.5±0.2	-0.09±0.01	-1.16±0.02	1.033±0.007	1.032±0.007	0.009±0.004	0.044±0.006
69.7	-2.4±0.3	0.5±0.2	-0.06±0.01	-1.16±0.02	1.048±0.007	1.047±0.007	0.009±0.004	0.044±0.006
74.8	-2.4±0.3	0.5±0.2	-0.04±0.01	-1.16±0.02	1.058±0.007	1.057±0.007	0.009±0.004	0.044±0.006
79.9	-2.3±0.3	0.5±0.2	-0.02±0.01	-1.16±0.02	1.065±0.007	1.064±0.007	0.009±0.004	0.043±0.006
84.9	-2.2±0.3	0.4±0.2	0.00±0.01	-1.15±0.02	1.072±0.007	1.071±0.007	0.008±0.004	0.042±0.006
90.0	-2.2±0.3	0.4±0.2	0.00±0.01	-1.15±0.02	1.075±0.007	1.074±0.007	0.008±0.004	0.042±0.006
100.2	-2.2±0.3	0.4±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	0.008±0.004	0.041±0.006
110.3	-2.2±0.3	0.4±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.076±0.007	0.007±0.004	0.041±0.006
120.5	-2.2±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.076±0.007	0.004±0.004	0.041±0.006
130.7	-2.2±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.076±0.007	0.003±0.004	0.041±0.006
140.8	-2.2±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.076±0.007	0.003±0.004	0.041±0.006

Table B.178 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.4±0.3	1.9±0.7	-0.82±0.01	-1.17±0.02	0.590±0.008	0.589±0.008	0.019±0.007	0.025±0.003
4.7	-2.6±0.3	0.4±0.6	-0.78±0.01	-1.17±0.02	0.622±0.007	0.621±0.007	0.005±0.007	0.028±0.003
5.7	-2.5±0.3	0.3±0.6	-0.75±0.01	-1.18±0.02	0.656±0.007	0.655±0.007	0.003±0.007	0.029±0.004
6.7	-2.4±0.3	0.2±0.5	-0.71±0.01	-1.19±0.02	0.693±0.007	0.693±0.007	0.003±0.006	0.030±0.004
7.7	-2.4±0.3	0.0±0.5	-0.67±0.01	-1.16±0.02	0.704±0.007	0.703±0.007	0.000±0.006	0.030±0.004
8.7	-2.4±0.3	0.1±0.5	-0.65±0.01	-1.18±0.02	0.727±0.007	0.727±0.007	0.001±0.006	0.030±0.004
9.8	-2.3±0.3	0.0±0.5	-0.63±0.01	-1.18±0.02	0.741±0.007	0.740±0.007	0.000±0.006	0.030±0.004
10.8	-2.3±0.3	0.2±0.4	-0.60±0.01	-1.17±0.02	0.753±0.007	0.753±0.007	0.003±0.006	0.030±0.004
11.8	-2.3±0.3	0.2±0.4	-0.59±0.01	-1.18±0.02	0.771±0.007	0.771±0.007	0.002±0.006	0.031±0.004
12.8	-2.3±0.3	0.3±0.4	-0.56±0.01	-1.17±0.02	0.781±0.007	0.780±0.007	0.004±0.006	0.031±0.004
13.8	-2.4±0.3	0.3±0.4	-0.55±0.01	-1.17±0.02	0.786±0.007	0.785±0.007	0.005±0.006	0.033±0.004
16.4	-2.5±0.3	0.4±0.4	-0.52±0.01	-1.18±0.02	0.807±0.007	0.806±0.007	0.006±0.005	0.035±0.004
18.9	-2.6±0.3	0.5±0.4	-0.50±0.01	-1.17±0.02	0.818±0.007	0.817±0.007	0.007±0.005	0.036±0.005
21.4	-2.7±0.3	0.4±0.4	-0.47±0.01	-1.17±0.02	0.838±0.006	0.837±0.006	0.006±0.005	0.040±0.005
24.0	-2.8±0.3	0.4±0.3	-0.45±0.01	-1.18±0.02	0.852±0.006	0.851±0.006	0.007±0.005	0.041±0.005
26.5	-2.8±0.3	0.5±0.3	-0.42±0.01	-1.17±0.02	0.866±0.006	0.864±0.006	0.007±0.005	0.043±0.005
29.1	-2.9±0.3	0.4±0.3	-0.40±0.01	-1.18±0.02	0.887±0.006	0.886±0.006	0.007±0.005	0.045±0.005
31.6	-2.9±0.3	0.5±0.3	-0.37±0.01	-1.17±0.02	0.893±0.006	0.892±0.006	0.008±0.005	0.045±0.005
34.1	-2.9±0.3	0.5±0.3	-0.35±0.01	-1.18±0.02	0.912±0.006	0.911±0.006	0.008±0.005	0.046±0.005
36.7	-2.9±0.3	0.5±0.3	-0.31±0.01	-1.16±0.02	0.920±0.006	0.919±0.006	0.008±0.005	0.047±0.005
39.2	-2.9±0.3	0.6±0.3	-0.30±0.01	-1.17±0.02	0.935±0.006	0.934±0.006	0.009±0.005	0.048±0.005
44.3	-2.8±0.3	0.6±0.3	-0.25±0.01	-1.17±0.02	0.960±0.006	0.959±0.006	0.011±0.005	0.048±0.005
49.4	-2.8±0.3	0.5±0.3	-0.21±0.01	-1.17±0.02	0.982±0.006	0.981±0.006	0.009±0.004	0.049±0.005
54.5	-2.8±0.3	0.5±0.2	-0.16±0.01	-1.16±0.02	0.999±0.006	0.998±0.006	0.010±0.004	0.049±0.006
59.5	-2.8±0.3	0.5±0.2	-0.13±0.01	-1.17±0.02	1.019±0.006	1.018±0.006	0.009±0.004	0.049±0.006
64.6	-2.7±0.3	0.5±0.2	-0.09±0.01	-1.16±0.02	1.036±0.006	1.035±0.006	0.009±0.004	0.049±0.006
69.7	-2.7±0.3	0.5±0.2	-0.07±0.01	-1.16±0.02	1.046±0.006	1.045±0.006	0.009±0.004	0.049±0.006
74.8	-2.6±0.3	0.4±0.2	-0.04±0.01	-1.17±0.02	1.063±0.007	1.062±0.007	0.008±0.004	0.049±0.006
79.9	-2.5±0.3	0.4±0.2	-0.02±0.01	-1.16±0.02	1.071±0.007	1.070±0.007	0.008±0.004	0.047±0.006
84.9	-2.6±0.3	0.4±0.2	-0.01±0.01	-1.16±0.02	1.076±0.007	1.075±0.007	0.008±0.004	0.048±0.006
90.0	-2.5±0.3	0.4±0.2	0.00±0.01	-1.16±0.02	1.078±0.007	1.077±0.007	0.008±0.004	0.047±0.006
100.2	-2.4±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.080±0.007	0.007±0.004	0.046±0.006
110.3	-2.4±0.3	0.3±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.080±0.007	0.005±0.004	0.046±0.006
120.5	-2.4±0.3	0.1±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.079±0.007	0.003±0.004	0.046±0.006
130.7	-2.3±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.079±0.007	0.000±0.004	0.044±0.006
140.8	-2.3±0.3	-0.1±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	-0.001±0.004	0.044±0.006

Table B.179 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.5±0.3	1.9±0.7	-0.82±0.01	-1.16±0.02	0.584±0.008	0.583±0.008	0.019±0.008	0.026±0.003
4.7	-2.7±0.3	0.5±0.7	-0.77±0.01	-1.16±0.02	0.619±0.007	0.619±0.007	0.006±0.007	0.029±0.003
5.7	-2.6±0.3	0.3±0.6	-0.74±0.01	-1.17±0.02	0.655±0.007	0.654±0.007	0.003±0.007	0.030±0.004
6.7	-2.6±0.3	0.3±0.5	-0.71±0.01	-1.17±0.02	0.678±0.007	0.677±0.007	0.003±0.006	0.031±0.004
7.7	-2.6±0.3	0.1±0.5	-0.67±0.01	-1.16±0.02	0.700±0.007	0.700±0.007	0.001±0.006	0.032±0.004
8.7	-2.5±0.3	0.1±0.5	-0.65±0.01	-1.17±0.02	0.720±0.007	0.720±0.007	0.001±0.006	0.031±0.004
9.8	-2.4±0.3	0.1±0.5	-0.62±0.01	-1.16±0.02	0.736±0.007	0.735±0.007	0.001±0.006	0.031±0.004
10.8	-2.5±0.3	0.3±0.4	-0.60±0.01	-1.17±0.02	0.753±0.007	0.752±0.007	0.004±0.006	0.033±0.004
11.8	-2.5±0.3	0.3±0.4	-0.58±0.01	-1.17±0.02	0.769±0.007	0.768±0.007	0.004±0.006	0.033±0.004
12.8	-2.4±0.3	0.3±0.4	-0.56±0.01	-1.16±0.02	0.778±0.007	0.777±0.007	0.004±0.006	0.033±0.004
13.8	-2.5±0.3	0.3±0.4	-0.55±0.01	-1.17±0.02	0.790±0.007	0.789±0.007	0.005±0.006	0.034±0.004
16.4	-2.7±0.3	0.4±0.4	-0.52±0.01	-1.17±0.02	0.808±0.007	0.807±0.007	0.005±0.005	0.037±0.004
18.9	-2.7±0.3	0.4±0.4	-0.48±0.01	-1.16±0.02	0.824±0.007	0.823±0.007	0.006±0.005	0.039±0.005
21.4	-2.9±0.3	0.4±0.4	-0.47±0.01	-1.17±0.02	0.839±0.006	0.838±0.006	0.006±0.005	0.042±0.005
24.0	-3.0±0.3	0.4±0.3	-0.44±0.01	-1.16±0.02	0.849±0.006	0.847±0.006	0.006±0.005	0.044±0.005
26.5	-3.2±0.3	0.5±0.3	-0.41±0.01	-1.16±0.02	0.868±0.006	0.866±0.006	0.007±0.005	0.048±0.005
29.1	-3.2±0.3	0.5±0.3	-0.37±0.01	-1.16±0.02	0.888±0.006	0.886±0.006	0.007±0.005	0.050±0.005
31.6	-3.2±0.3	0.5±0.3	-0.37±0.01	-1.17±0.02	0.893±0.006	0.891±0.006	0.007±0.005	0.050±0.005
34.1	-3.3±0.3	0.5±0.3	-0.33±0.01	-1.16±0.02	0.908±0.006	0.907±0.006	0.008±0.005	0.052±0.005
36.7	-3.2±0.3	0.5±0.3	-0.31±0.01	-1.17±0.02	0.926±0.006	0.925±0.006	0.008±0.005	0.052±0.005
39.2	-3.2±0.3	0.5±0.3	-0.29±0.01	-1.17±0.02	0.933±0.006	0.932±0.006	0.008±0.005	0.053±0.005
44.3	-3.2±0.3	0.5±0.3	-0.25±0.01	-1.17±0.02	0.958±0.006	0.956±0.006	0.008±0.005	0.054±0.005
49.4	-3.3±0.3	0.6±0.3	-0.20±0.01	-1.16±0.02	0.978±0.006	0.976±0.006	0.010±0.004	0.056±0.005
54.5	-3.1±0.3	0.5±0.2	-0.16±0.01	-1.16±0.02	1.001±0.006	0.999±0.006	0.009±0.004	0.054±0.006
59.5	-3.1±0.3	0.4±0.2	-0.12±0.01	-1.16±0.02	1.020±0.006	1.019±0.006	0.008±0.004	0.054±0.006
64.6	-3.1±0.3	0.4±0.2	-0.09±0.01	-1.16±0.02	1.032±0.006	1.031±0.006	0.008±0.004	0.055±0.006
69.7	-3.0±0.3	0.4±0.2	-0.06±0.01	-1.16±0.02	1.050±0.006	1.048±0.006	0.008±0.004	0.055±0.006
74.8	-3.0±0.3	0.4±0.2	-0.04±0.01	-1.16±0.02	1.057±0.007	1.056±0.007	0.008±0.004	0.056±0.006
79.9	-2.9±0.3	0.4±0.2	-0.02±0.01	-1.15±0.02	1.065±0.007	1.063±0.007	0.008±0.004	0.053±0.006
84.9	-2.8±0.3	0.4±0.2	-0.01±0.01	-1.15±0.02	1.071±0.007	1.070±0.007	0.008±0.004	0.053±0.006
90.0	-2.8±0.3	0.4±0.2	0.00±0.01	-1.15±0.02	1.074±0.007	1.073±0.007	0.007±0.004	0.053±0.006
100.2	-2.8±0.3	0.3±0.2	0.01±0.01	-1.15±0.02	1.075±0.007	1.074±0.007	0.006±0.004	0.052±0.006
110.3	-2.8±0.3	0.3±0.2	0.01±0.01	-1.15±0.02	1.075±0.007	1.074±0.007	0.005±0.004	0.053±0.006
120.5	-2.8±0.3	0.1±0.2	0.01±0.01	-1.15±0.02	1.075±0.007	1.074±0.007	0.002±0.004	0.052±0.006
130.7	-2.6±0.3	0.0±0.2	0.01±0.01	-1.15±0.02	1.075±0.007	1.074±0.007	-0.001±0.004	0.049±0.006
140.8	-2.6±0.3	-0.2±0.2	0.01±0.01	-1.15±0.02	1.075±0.007	1.074±0.007	-0.003±0.004	0.049±0.006

Table B.180 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.6±0.3	2.2±0.8	-0.82±0.01	-1.14±0.02	0.561±0.008	0.560±0.008	0.021±0.008	0.026±0.003
4.7	-2.7±0.3	0.6±0.7	-0.77±0.01	-1.13±0.02	0.599±0.008	0.599±0.008	0.006±0.007	0.029±0.003
5.7	-2.8±0.3	0.3±0.6	-0.74±0.01	-1.14±0.02	0.638±0.007	0.637±0.007	0.003±0.007	0.031±0.004
6.7	-2.7±0.3	0.3±0.6	-0.70±0.01	-1.15±0.02	0.669±0.007	0.668±0.007	0.004±0.007	0.032±0.004
7.7	-2.6±0.3	0.2±0.5	-0.67±0.01	-1.15±0.02	0.690±0.007	0.689±0.007	0.003±0.006	0.032±0.004
8.7	-2.5±0.3	0.1±0.5	-0.64±0.01	-1.15±0.02	0.713±0.007	0.712±0.007	0.001±0.006	0.031±0.004
9.8	-2.6±0.3	0.1±0.5	-0.62±0.01	-1.15±0.02	0.729±0.007	0.728±0.007	0.002±0.006	0.033±0.004
10.8	-2.6±0.3	0.2±0.5	-0.59±0.01	-1.14±0.02	0.742±0.007	0.741±0.007	0.003±0.006	0.034±0.004
11.8	-2.6±0.3	0.3±0.4	-0.57±0.01	-1.15±0.02	0.760±0.007	0.759±0.007	0.004±0.006	0.035±0.004
12.8	-2.6±0.3	0.3±0.4	-0.55±0.01	-1.15±0.02	0.771±0.007	0.771±0.007	0.005±0.006	0.035±0.004
13.8	-2.6±0.3	0.3±0.4	-0.53±0.01	-1.14±0.02	0.781±0.007	0.780±0.007	0.004±0.006	0.035±0.004
16.4	-2.7±0.3	0.4±0.4	-0.50±0.01	-1.14±0.02	0.800±0.007	0.799±0.007	0.005±0.005	0.037±0.004
18.9	-2.9±0.3	0.4±0.4	-0.47±0.01	-1.14±0.02	0.816±0.007	0.815±0.007	0.006±0.005	0.041±0.005
21.4	-3.0±0.3	0.5±0.4	-0.45±0.01	-1.15±0.02	0.832±0.007	0.831±0.007	0.007±0.005	0.044±0.005
24.0	-3.2±0.3	0.4±0.3	-0.43±0.01	-1.15±0.02	0.851±0.007	0.849±0.007	0.007±0.005	0.048±0.005
26.5	-3.3±0.3	0.4±0.3	-0.40±0.01	-1.14±0.02	0.861±0.007	0.859±0.006	0.007±0.005	0.049±0.005
29.1	-3.3±0.3	0.5±0.3	-0.38±0.01	-1.14±0.02	0.876±0.006	0.874±0.006	0.007±0.005	0.051±0.005
31.6	-3.4±0.3	0.4±0.3	-0.36±0.01	-1.15±0.02	0.889±0.006	0.887±0.006	0.007±0.005	0.052±0.005
34.1	-3.4±0.3	0.5±0.3	-0.33±0.01	-1.14±0.02	0.903±0.006	0.901±0.006	0.007±0.005	0.053±0.005
36.7	-3.4±0.3	0.5±0.3	-0.31±0.01	-1.15±0.02	0.914±0.006	0.913±0.006	0.007±0.005	0.054±0.005
39.2	-3.4±0.3	0.5±0.3	-0.28±0.01	-1.14±0.02	0.927±0.006	0.925±0.006	0.007±0.005	0.055±0.005
44.3	-3.4±0.3	0.5±0.3	-0.25±0.01	-1.15±0.02	0.948±0.006	0.946±0.006	0.008±0.005	0.056±0.005
49.4	-3.3±0.3	0.5±0.3	-0.19±0.01	-1.14±0.02	0.973±0.006	0.972±0.006	0.008±0.005	0.057±0.005
54.5	-3.3±0.3	0.5±0.3	-0.16±0.01	-1.14±0.02	0.989±0.006	0.987±0.006	0.008±0.004	0.057±0.005
59.5	-3.3±0.3	0.5±0.2	-0.13±0.01	-1.14±0.02	1.005±0.006	1.004±0.006	0.008±0.004	0.057±0.006
64.6	-3.2±0.3	0.5±0.2	-0.10±0.01	-1.13±0.02	1.019±0.007	1.017±0.006	0.008±0.004	0.057±0.006
69.7	-3.2±0.3	0.4±0.2	-0.06±0.01	-1.13±0.02	1.032±0.007	1.030±0.007	0.008±0.004	0.058±0.006
74.8	-3.1±0.3	0.4±0.2	-0.04±0.01	-1.13±0.02	1.045±0.007	1.044±0.007	0.008±0.004	0.057±0.006
79.9	-3.0±0.3	0.4±0.2	-0.02±0.01	-1.12±0.02	1.052±0.007	1.050±0.007	0.008±0.004	0.056±0.006
84.9	-3.0±0.3	0.4±0.2	-0.01±0.01	-1.12±0.02	1.057±0.007	1.055±0.007	0.008±0.004	0.056±0.006
90.0	-3.0±0.3	0.4±0.2	0.00±0.01	-1.12±0.02	1.060±0.007	1.059±0.007	0.007±0.004	0.055±0.006
100.2	-2.9±0.3	0.4±0.2	0.01±0.01	-1.12±0.02	1.061±0.007	1.060±0.007	0.007±0.004	0.054±0.006
110.3	-2.9±0.3	0.2±0.2	0.01±0.01	-1.12±0.02	1.061±0.007	1.059±0.007	0.003±0.004	0.054±0.006
120.5	-3.0±0.3	0.1±0.2	0.01±0.01	-1.12±0.02	1.061±0.007	1.059±0.007	0.002±0.004	0.055±0.006
130.7	-2.8±0.3	0.0±0.2	0.01±0.01	-1.12±0.02	1.060±0.007	1.059±0.007	0.000±0.004	0.052±0.006
140.8	-2.7±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.060±0.007	1.059±0.007	-0.002±0.004	0.050±0.006

Table B.181 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.8±0.3	2.0±0.8	-0.82±0.01	-1.15±0.02	0.574±0.008	0.573±0.008	0.020±0.008	0.028±0.003
4.7	-3.1±0.3	0.5±0.7	-0.76±0.01	-1.14±0.02	0.614±0.007	0.613±0.007	0.005±0.007	0.033±0.003
5.7	-3.1±0.3	0.3±0.6	-0.73±0.01	-1.15±0.02	0.645±0.007	0.644±0.007	0.003±0.007	0.035±0.004
6.7	-3.2±0.3	0.3±0.6	-0.69±0.01	-1.14±0.02	0.669±0.007	0.668±0.007	0.003±0.006	0.037±0.004
7.7	-3.1±0.3	0.0±0.5	-0.66±0.01	-1.15±0.02	0.699±0.007	0.698±0.007	0.000±0.006	0.038±0.004
8.7	-3.2±0.3	0.0±0.5	-0.63±0.01	-1.14±0.02	0.717±0.007	0.716±0.007	0.000±0.006	0.040±0.004
9.8	-3.2±0.3	0.2±0.5	-0.60±0.01	-1.15±0.02	0.739±0.007	0.738±0.007	0.002±0.006	0.041±0.004
10.8	-3.2±0.3	0.2±0.4	-0.58±0.01	-1.14±0.02	0.751±0.007	0.749±0.007	0.002±0.006	0.042±0.004
11.8	-3.2±0.3	0.3±0.4	-0.56±0.01	-1.15±0.02	0.764±0.007	0.763±0.007	0.004±0.006	0.043±0.004
12.8	-3.3±0.3	0.3±0.4	-0.55±0.01	-1.14±0.02	0.774±0.007	0.772±0.007	0.004±0.006	0.045±0.004
13.8	-3.3±0.3	0.3±0.4	-0.53±0.01	-1.15±0.02	0.784±0.007	0.783±0.007	0.005±0.006	0.045±0.004
16.4	-3.5±0.3	0.4±0.4	-0.50±0.01	-1.15±0.02	0.808±0.007	0.806±0.006	0.005±0.005	0.049±0.004
18.9	-3.6±0.3	0.4±0.4	-0.47±0.01	-1.15±0.02	0.824±0.006	0.822±0.006	0.006±0.005	0.052±0.005
21.4	-3.7±0.3	0.4±0.4	-0.44±0.01	-1.14±0.02	0.838±0.006	0.836±0.006	0.006±0.005	0.055±0.005
24.0	-3.9±0.3	0.4±0.3	-0.42±0.01	-1.14±0.02	0.851±0.006	0.849±0.006	0.006±0.005	0.058±0.005
26.5	-4.0±0.3	0.4±0.3	-0.39±0.01	-1.14±0.02	0.864±0.006	0.862±0.006	0.006±0.005	0.061±0.005
29.1	-4.1±0.3	0.5±0.3	-0.37±0.01	-1.14±0.02	0.876±0.006	0.874±0.006	0.007±0.005	0.062±0.005
31.6	-4.1±0.3	0.4±0.3	-0.34±0.01	-1.14±0.02	0.890±0.006	0.888±0.006	0.007±0.005	0.064±0.005
34.1	-4.1±0.3	0.4±0.3	-0.32±0.01	-1.14±0.02	0.904±0.006	0.902±0.006	0.007±0.005	0.065±0.005
36.7	-4.1±0.3	0.4±0.3	-0.30±0.01	-1.14±0.02	0.917±0.006	0.914±0.006	0.007±0.005	0.066±0.005
39.2	-4.1±0.3	0.5±0.3	-0.28±0.01	-1.15±0.02	0.930±0.006	0.927±0.006	0.007±0.005	0.067±0.005
44.3	-4.1±0.3	0.5±0.3	-0.24±0.01	-1.15±0.02	0.953±0.006	0.950±0.006	0.007±0.005	0.068±0.005
49.4	-4.1±0.3	0.5±0.3	-0.20±0.01	-1.14±0.02	0.969±0.006	0.967±0.006	0.008±0.004	0.069±0.005
54.5	-4.0±0.3	0.4±0.3	-0.16±0.01	-1.13±0.02	0.987±0.006	0.984±0.006	0.008±0.004	0.069±0.005
59.5	-4.0±0.3	0.4±0.2	-0.12±0.01	-1.13±0.02	1.004±0.006	1.002±0.006	0.008±0.004	0.071±0.006
64.6	-4.0±0.3	0.5±0.2	-0.09±0.01	-1.13±0.02	1.020±0.006	1.017±0.006	0.008±0.004	0.070±0.006
69.7	-3.9±0.3	0.4±0.2	-0.06±0.01	-1.13±0.02	1.033±0.006	1.030±0.006	0.008±0.004	0.070±0.006
74.8	-3.8±0.3	0.4±0.2	-0.04±0.01	-1.12±0.02	1.042±0.006	1.040±0.006	0.008±0.004	0.070±0.006
79.9	-3.8±0.3	0.4±0.2	-0.02±0.01	-1.12±0.02	1.052±0.006	1.050±0.006	0.007±0.004	0.070±0.006
84.9	-3.8±0.3	0.4±0.2	-0.01±0.01	-1.12±0.02	1.057±0.006	1.055±0.006	0.007±0.004	0.070±0.006
90.0	-3.7±0.3	0.4±0.2	0.00±0.01	-1.12±0.02	1.061±0.006	1.059±0.006	0.007±0.004	0.069±0.006
100.2	-3.7±0.3	0.3±0.2	0.01±0.01	-1.12±0.02	1.062±0.006	1.060±0.006	0.006±0.004	0.068±0.006
110.3	-3.6±0.3	0.2±0.2	0.01±0.01	-1.12±0.02	1.062±0.006	1.060±0.006	0.003±0.004	0.067±0.006
120.5	-3.7±0.3	0.1±0.2	0.01±0.01	-1.11±0.02	1.060±0.006	1.058±0.006	0.002±0.004	0.068±0.006
130.7	-3.6±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.061±0.006	1.059±0.006	-0.001±0.004	0.067±0.006
140.8	-3.5±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.060±0.006	1.058±0.006	-0.002±0.004	0.065±0.006

Table B.182 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.2±0.3	2.0±0.8	-0.82±0.01	-1.13±0.02	0.561±0.008	0.560±0.008	0.020±0.008	0.022±0.003
4.7	-2.5±0.3	0.5±0.7	-0.78±0.01	-1.14±0.02	0.600±0.008	0.600±0.008	0.005±0.007	0.026±0.003
5.7	-2.7±0.3	0.3±0.6	-0.74±0.01	-1.14±0.02	0.631±0.007	0.631±0.007	0.003±0.007	0.030±0.003
6.7	-2.8±0.3	0.3±0.6	-0.70±0.01	-1.14±0.02	0.664±0.007	0.663±0.007	0.003±0.007	0.032±0.004
7.7	-2.8±0.3	0.1±0.5	-0.67±0.01	-1.15±0.02	0.689±0.007	0.689±0.007	0.001±0.006	0.034±0.004
8.7	-2.9±0.3	0.0±0.5	-0.64±0.01	-1.15±0.02	0.710±0.007	0.709±0.007	0.000±0.006	0.035±0.004
9.8	-2.9±0.3	0.1±0.5	-0.61±0.01	-1.14±0.02	0.734±0.007	0.733±0.007	0.001±0.006	0.037±0.004
10.8	-2.9±0.3	0.3±0.4	-0.58±0.01	-1.14±0.02	0.747±0.007	0.746±0.007	0.003±0.006	0.038±0.004
11.8	-2.9±0.3	0.3±0.4	-0.58±0.01	-1.15±0.02	0.758±0.007	0.757±0.007	0.004±0.006	0.038±0.004
12.8	-2.9±0.3	0.3±0.4	-0.54±0.01	-1.14±0.02	0.772±0.007	0.771±0.007	0.004±0.006	0.039±0.004
13.8	-3.0±0.3	0.3±0.4	-0.52±0.01	-1.14±0.02	0.785±0.007	0.784±0.007	0.005±0.006	0.041±0.004
16.4	-3.2±0.3	0.3±0.4	-0.50±0.01	-1.14±0.02	0.804±0.007	0.803±0.007	0.005±0.005	0.045±0.004
18.9	-3.3±0.3	0.4±0.4	-0.47±0.01	-1.15±0.02	0.824±0.007	0.822±0.007	0.006±0.005	0.048±0.005
21.4	-3.5±0.3	0.4±0.4	-0.44±0.01	-1.14±0.02	0.837±0.007	0.835±0.006	0.006±0.005	0.051±0.005
24.0	-3.6±0.3	0.4±0.3	-0.42±0.01	-1.15±0.02	0.854±0.006	0.852±0.006	0.006±0.005	0.053±0.005
26.5	-3.8±0.3	0.4±0.3	-0.39±0.01	-1.14±0.02	0.866±0.006	0.864±0.006	0.006±0.005	0.057±0.005
29.1	-3.8±0.3	0.4±0.3	-0.36±0.01	-1.14±0.02	0.879±0.006	0.877±0.006	0.007±0.005	0.059±0.005
31.6	-3.9±0.3	0.4±0.3	-0.34±0.01	-1.14±0.02	0.894±0.006	0.892±0.006	0.007±0.005	0.060±0.005
34.1	-3.9±0.3	0.4±0.3	-0.32±0.01	-1.15±0.02	0.907±0.006	0.904±0.006	0.007±0.005	0.061±0.005
36.7	-3.9±0.3	0.4±0.3	-0.29±0.01	-1.14±0.02	0.919±0.006	0.917±0.006	0.007±0.005	0.062±0.005
39.2	-3.9±0.3	0.4±0.3	-0.27±0.01	-1.13±0.02	0.928±0.006	0.926±0.006	0.007±0.005	0.063±0.005
44.3	-3.9±0.3	0.4±0.3	-0.23±0.01	-1.13±0.02	0.950±0.006	0.947±0.006	0.007±0.005	0.065±0.005
49.4	-3.8±0.3	0.4±0.3	-0.19±0.01	-1.13±0.02	0.968±0.006	0.966±0.006	0.007±0.005	0.065±0.005
54.5	-3.8±0.3	0.4±0.3	-0.16±0.01	-1.13±0.02	0.988±0.006	0.986±0.006	0.008±0.004	0.065±0.005
59.5	-3.8±0.3	0.4±0.2	-0.12±0.01	-1.14±0.02	1.005±0.006	1.003±0.006	0.008±0.004	0.066±0.006
64.6	-3.7±0.3	0.4±0.2	-0.09±0.01	-1.13±0.02	1.018±0.006	1.015±0.006	0.008±0.004	0.066±0.006
69.7	-3.6±0.3	0.4±0.2	-0.06±0.01	-1.13±0.02	1.032±0.006	1.030±0.006	0.008±0.004	0.066±0.006
74.8	-3.6±0.3	0.4±0.2	-0.04±0.01	-1.13±0.02	1.044±0.007	1.042±0.007	0.007±0.004	0.065±0.006
79.9	-3.6±0.3	0.4±0.2	-0.01±0.01	-1.12±0.02	1.049±0.007	1.047±0.007	0.007±0.004	0.065±0.006
84.9	-3.5±0.3	0.4±0.2	-0.01±0.01	-1.12±0.02	1.055±0.007	1.053±0.007	0.007±0.004	0.065±0.006
90.0	-3.4±0.3	0.4±0.2	0.00±0.01	-1.12±0.02	1.058±0.007	1.056±0.007	0.007±0.004	0.063±0.006
100.2	-3.4±0.3	0.4±0.2	0.01±0.01	-1.12±0.02	1.059±0.007	1.057±0.007	0.007±0.004	0.063±0.006
110.3	-3.3±0.3	0.3±0.2	0.01±0.01	-1.12±0.02	1.060±0.007	1.058±0.007	0.005±0.004	0.062±0.006
120.5	-3.3±0.3	0.0±0.2	0.01±0.01	-1.12±0.02	1.059±0.007	1.057±0.007	0.001±0.004	0.061±0.006
130.7	-3.3±0.3	0.1±0.2	0.01±0.01	-1.11±0.02	1.058±0.007	1.057±0.007	0.001±0.004	0.061±0.006
140.8	-3.2±0.3	-0.1±0.2	0.01±0.01	-1.11±0.02	1.058±0.007	1.056±0.007	-0.001±0.004	0.060±0.006

Table B.183 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.8±0.3	2.0±0.8	-0.83±0.01	-1.14±0.02	0.559±0.008	0.558±0.008	0.020±0.008	0.027±0.003
4.7	-2.9±0.3	0.4±0.7	-0.79±0.01	-1.15±0.02	0.596±0.008	0.595±0.008	0.005±0.007	0.030±0.003
5.7	-3.1±0.3	0.3±0.7	-0.75±0.01	-1.13±0.02	0.620±0.007	0.619±0.007	0.003±0.007	0.033±0.003
6.7	-3.2±0.3	0.1±0.6	-0.70±0.01	-1.13±0.02	0.657±0.007	0.656±0.007	0.001±0.007	0.037±0.004
7.7	-3.3±0.3	-0.1±0.5	-0.67±0.01	-1.14±0.02	0.685±0.007	0.684±0.007	-0.001±0.006	0.039±0.004
8.7	-3.4±0.3	-0.1±0.5	-0.65±0.01	-1.14±0.02	0.702±0.007	0.700±0.007	-0.001±0.006	0.042±0.004
9.8	-3.5±0.3	0.0±0.5	-0.61±0.01	-1.13±0.02	0.720±0.007	0.719±0.007	0.001±0.006	0.044±0.004
10.8	-3.5±0.3	0.1±0.4	-0.59±0.01	-1.15±0.02	0.746±0.007	0.744±0.007	0.002±0.006	0.045±0.004
11.8	-3.4±0.3	0.1±0.4	-0.56±0.01	-1.14±0.02	0.756±0.007	0.754±0.007	0.002±0.006	0.045±0.004
12.8	-3.6±0.3	0.3±0.4	-0.54±0.01	-1.14±0.02	0.771±0.007	0.769±0.007	0.004±0.006	0.048±0.004
13.8	-3.6±0.3	0.3±0.4	-0.53±0.01	-1.14±0.02	0.779±0.007	0.777±0.007	0.005±0.006	0.049±0.004
16.4	-3.8±0.3	0.3±0.4	-0.50±0.01	-1.14±0.02	0.801±0.007	0.800±0.007	0.005±0.005	0.053±0.004
18.9	-3.8±0.3	0.4±0.4	-0.47±0.01	-1.14±0.02	0.817±0.007	0.816±0.007	0.005±0.005	0.055±0.005
21.4	-4.1±0.3	0.3±0.4	-0.44±0.01	-1.14±0.02	0.833±0.007	0.831±0.006	0.005±0.005	0.059±0.005
24.0	-4.2±0.3	0.4±0.3	-0.42±0.01	-1.14±0.02	0.851±0.006	0.848±0.006	0.005±0.005	0.063±0.005
26.5	-4.3±0.3	0.4±0.3	-0.39±0.01	-1.13±0.02	0.860±0.006	0.858±0.006	0.006±0.005	0.064±0.005
29.1	-4.3±0.3	0.4±0.3	-0.37±0.01	-1.14±0.02	0.880±0.006	0.877±0.006	0.006±0.005	0.067±0.005
31.6	-4.4±0.3	0.4±0.3	-0.34±0.01	-1.14±0.02	0.892±0.006	0.889±0.006	0.006±0.005	0.068±0.005
34.1	-4.4±0.3	0.4±0.3	-0.31±0.01	-1.13±0.02	0.902±0.006	0.899±0.006	0.006±0.005	0.069±0.005
36.7	-4.4±0.3	0.4±0.3	-0.30±0.01	-1.13±0.02	0.912±0.006	0.909±0.006	0.007±0.005	0.070±0.005
39.2	-4.4±0.3	0.4±0.3	-0.28±0.01	-1.14±0.02	0.928±0.006	0.925±0.006	0.006±0.005	0.071±0.005
44.3	-4.4±0.3	0.4±0.3	-0.24±0.01	-1.14±0.02	0.947±0.006	0.944±0.006	0.007±0.005	0.073±0.005
49.4	-4.4±0.3	0.4±0.3	-0.21±0.01	-1.13±0.02	0.963±0.006	0.961±0.006	0.007±0.005	0.074±0.005
54.5	-4.3±0.3	0.4±0.3	-0.17±0.01	-1.12±0.02	0.978±0.006	0.976±0.006	0.007±0.004	0.073±0.005
59.5	-4.3±0.3	0.4±0.3	-0.13±0.01	-1.11±0.02	0.990±0.006	0.987±0.006	0.007±0.004	0.074±0.005
64.6	-4.3±0.3	0.4±0.2	-0.08±0.01	-1.10±0.02	1.009±0.006	1.007±0.006	0.008±0.004	0.075±0.006
69.7	-4.2±0.3	0.4±0.2	-0.06±0.01	-1.11±0.02	1.023±0.006	1.020±0.006	0.007±0.004	0.074±0.006
74.8	-4.1±0.3	0.4±0.2	-0.05±0.01	-1.13±0.02	1.038±0.006	1.035±0.006	0.007±0.004	0.074±0.006
79.9	-4.0±0.3	0.4±0.2	-0.02±0.01	-1.12±0.02	1.046±0.007	1.044±0.007	0.007±0.004	0.074±0.006
84.9	-4.0±0.3	0.4±0.2	-0.01±0.01	-1.12±0.02	1.051±0.007	1.048±0.007	0.007±0.004	0.073±0.006
90.0	-4.0±0.3	0.3±0.2	0.00±0.01	-1.10±0.02	1.051±0.007	1.048±0.007	0.006±0.004	0.074±0.006
100.2	-3.9±0.3	0.2±0.2	0.01±0.01	-1.11±0.02	1.054±0.007	1.052±0.007	0.004±0.004	0.071±0.006
110.3	-3.8±0.3	0.2±0.2	0.01±0.01	-1.10±0.02	1.054±0.007	1.052±0.007	0.003±0.004	0.070±0.006
120.5	-3.8±0.3	0.1±0.2	0.01±0.01	-1.10±0.02	1.053±0.007	1.051±0.007	0.001±0.004	0.070±0.006
130.7	-3.8±0.3	-0.1±0.2	0.01±0.01	-1.10±0.02	1.053±0.007	1.051±0.007	-0.001±0.004	0.070±0.006
140.8	-3.7±0.3	-0.1±0.2	0.01±0.01	-1.10±0.02	1.053±0.007	1.050±0.007	-0.001±0.004	0.069±0.006

Table B.184 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.4±0.3	2.2±0.8	-0.82±0.01	-1.12±0.02	0.545±0.008	0.544±0.008	0.021±0.008	0.023±0.003
4.7	-3.0±0.3	0.4±0.7	-0.78±0.01	-1.13±0.02	0.589±0.008	0.588±0.008	0.004±0.007	0.031±0.003
5.7	-3.2±0.3	0.3±0.6	-0.74±0.01	-1.13±0.02	0.624±0.007	0.623±0.007	0.003±0.007	0.035±0.003
6.7	-3.4±0.3	0.2±0.6	-0.71±0.01	-1.13±0.02	0.649±0.007	0.648±0.007	0.002±0.007	0.039±0.004
7.7	-3.5±0.3	0.0±0.5	-0.67±0.01	-1.14±0.02	0.685±0.007	0.683±0.007	0.000±0.006	0.042±0.004
8.7	-3.6±0.3	0.1±0.5	-0.64±0.01	-1.14±0.02	0.708±0.007	0.706±0.007	0.001±0.006	0.044±0.004
9.8	-3.7±0.3	0.1±0.5	-0.60±0.01	-1.12±0.02	0.724±0.007	0.722±0.007	0.001±0.006	0.046±0.004
10.8	-3.8±0.3	0.1±0.4	-0.57±0.01	-1.13±0.02	0.748±0.007	0.747±0.007	0.002±0.006	0.049±0.004
11.8	-3.9±0.3	0.2±0.4	-0.56±0.01	-1.14±0.02	0.765±0.007	0.763±0.007	0.003±0.006	0.051±0.004
12.8	-4.0±0.3	0.3±0.4	-0.54±0.01	-1.14±0.02	0.773±0.007	0.771±0.007	0.004±0.006	0.053±0.004
13.8	-4.1±0.3	0.3±0.4	-0.52±0.01	-1.13±0.02	0.780±0.007	0.778±0.007	0.005±0.006	0.056±0.004
16.4	-4.2±0.3	0.3±0.4	-0.47±0.01	-1.12±0.02	0.805±0.007	0.802±0.007	0.005±0.005	0.059±0.004
18.9	-4.4±0.3	0.4±0.4	-0.46±0.01	-1.13±0.02	0.820±0.007	0.817±0.007	0.005±0.005	0.062±0.005
21.4	-4.5±0.3	0.4±0.4	-0.43±0.01	-1.13±0.02	0.837±0.006	0.835±0.006	0.005±0.005	0.066±0.005
24.0	-4.6±0.3	0.4±0.4	-0.41±0.01	-1.12±0.02	0.845±0.006	0.842±0.006	0.005±0.005	0.068±0.005
26.5	-4.7±0.3	0.3±0.3	-0.39±0.01	-1.12±0.02	0.859±0.006	0.856±0.006	0.005±0.005	0.070±0.005
29.1	-4.8±0.3	0.4±0.3	-0.36±0.01	-1.12±0.02	0.870±0.006	0.867±0.006	0.005±0.005	0.073±0.005
31.6	-4.8±0.3	0.4±0.3	-0.33±0.01	-1.12±0.02	0.889±0.006	0.886±0.006	0.006±0.005	0.074±0.005
34.1	-4.7±0.3	0.4±0.3	-0.31±0.01	-1.13±0.02	0.904±0.006	0.901±0.006	0.006±0.005	0.074±0.005
36.7	-4.8±0.3	0.4±0.3	-0.28±0.01	-1.12±0.02	0.914±0.006	0.910±0.006	0.006±0.005	0.076±0.005
39.2	-4.8±0.3	0.4±0.3	-0.27±0.01	-1.11±0.02	0.921±0.006	0.917±0.006	0.006±0.005	0.077±0.005
44.3	-4.7±0.3	0.4±0.3	-0.23±0.01	-1.11±0.02	0.940±0.006	0.937±0.006	0.006±0.005	0.077±0.005
49.4	-4.6±0.3	0.4±0.3	-0.19±0.01	-1.12±0.02	0.964±0.006	0.961±0.006	0.006±0.005	0.078±0.005
54.5	-4.6±0.3	0.4±0.3	-0.15±0.01	-1.11±0.02	0.981±0.006	0.978±0.006	0.006±0.004	0.079±0.005
59.5	-4.6±0.3	0.4±0.3	-0.12±0.01	-1.11±0.02	0.996±0.006	0.993±0.006	0.006±0.004	0.080±0.006
64.6	-4.5±0.3	0.4±0.2	-0.09±0.01	-1.10±0.02	1.006±0.006	1.003±0.006	0.006±0.004	0.080±0.006
69.7	-4.5±0.3	0.4±0.2	-0.06±0.01	-1.10±0.02	1.019±0.006	1.016±0.006	0.007±0.004	0.079±0.006
74.8	-4.4±0.3	0.3±0.2	-0.03±0.01	-1.10±0.02	1.031±0.006	1.028±0.006	0.006±0.004	0.080±0.006
79.9	-4.3±0.3	0.3±0.2	-0.02±0.01	-1.09±0.02	1.036±0.006	1.033±0.006	0.006±0.004	0.078±0.006
84.9	-4.3±0.3	0.3±0.2	-0.01±0.01	-1.10±0.02	1.044±0.007	1.041±0.006	0.005±0.004	0.078±0.006
90.0	-4.2±0.3	0.2±0.2	0.01±0.01	-1.09±0.02	1.045±0.007	1.042±0.006	0.004±0.004	0.077±0.006
100.2	-4.2±0.3	0.1±0.2	0.01±0.01	-1.08±0.02	1.046±0.007	1.043±0.007	0.003±0.004	0.076±0.006
110.3	-4.1±0.3	0.0±0.2	0.01±0.01	-1.08±0.02	1.045±0.007	1.042±0.006	-0.001±0.004	0.076±0.006
120.5	-4.1±0.3	-0.1±0.2	0.01±0.01	-1.08±0.02	1.044±0.007	1.041±0.006	-0.001±0.004	0.076±0.006
130.7	-4.0±0.3	-0.1±0.2	0.01±0.01	-1.08±0.02	1.045±0.007	1.042±0.007	-0.002±0.004	0.074±0.006
140.8	-4.0±0.3	-0.3±0.2	0.01±0.01	-1.08±0.02	1.045±0.007	1.042±0.007	-0.005±0.004	0.073±0.006

Table B.185 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-38 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.4±0.3	2.2±0.9	-0.81±0.01	-1.10±0.02	0.536±0.008	0.535±0.008	0.021±0.008	0.023±0.003
4.7	-2.9±0.3	0.5±0.7	-0.78±0.01	-1.12±0.02	0.586±0.008	0.585±0.008	0.005±0.007	0.029±0.003
5.7	-3.2±0.3	0.3±0.6	-0.75±0.01	-1.13±0.02	0.621±0.007	0.620±0.007	0.003±0.007	0.035±0.003
6.7	-3.6±0.3	0.3±0.6	-0.71±0.01	-1.12±0.02	0.640±0.007	0.639±0.007	0.003±0.007	0.040±0.004
7.7	-3.9±0.3	0.2±0.6	-0.66±0.01	-1.11±0.02	0.669±0.007	0.667±0.007	0.002±0.006	0.045±0.004
8.7	-3.9±0.3	0.1±0.5	-0.62±0.01	-1.11±0.02	0.700±0.007	0.698±0.007	0.001±0.006	0.048±0.004
9.8	-4.0±0.3	0.1±0.5	-0.61±0.01	-1.14±0.02	0.723±0.007	0.721±0.007	0.001±0.006	0.050±0.004
10.8	-4.1±0.3	0.1±0.5	-0.56±0.01	-1.11±0.02	0.738±0.007	0.736±0.007	0.002±0.006	0.053±0.004
11.8	-4.2±0.3	0.2±0.4	-0.54±0.01	-1.11±0.02	0.756±0.007	0.754±0.007	0.003±0.006	0.056±0.004
12.8	-4.2±0.3	0.2±0.4	-0.52±0.01	-1.12±0.02	0.771±0.007	0.769±0.007	0.003±0.006	0.057±0.004
13.8	-4.4±0.3	0.3±0.4	-0.51±0.01	-1.12±0.02	0.780±0.007	0.777±0.007	0.004±0.006	0.060±0.004
16.4	-4.6±0.3	0.3±0.4	-0.46±0.01	-1.11±0.02	0.806±0.007	0.803±0.007	0.005±0.005	0.065±0.004
18.9	-4.8±0.3	0.3±0.4	-0.45±0.01	-1.11±0.02	0.814±0.007	0.811±0.007	0.004±0.005	0.068±0.005
21.4	-4.8±0.3	0.3±0.4	-0.42±0.01	-1.12±0.02	0.838±0.006	0.835±0.006	0.004±0.005	0.071±0.005
24.0	-5.0±0.3	0.1±0.3	-0.39±0.01	-1.11±0.02	0.846±0.006	0.843±0.006	0.002±0.005	0.074±0.005
26.5	-5.0±0.3	0.3±0.3	-0.38±0.01	-1.12±0.02	0.861±0.006	0.858±0.006	0.005±0.005	0.076±0.005
29.1	-5.0±0.3	0.2±0.3	-0.35±0.01	-1.12±0.02	0.877±0.006	0.873±0.006	0.003±0.005	0.077±0.005
31.6	-5.0±0.3	0.3±0.3	-0.33±0.01	-1.12±0.02	0.887±0.006	0.884±0.006	0.004±0.005	0.078±0.005
34.1	-5.0±0.3	0.2±0.3	-0.31±0.01	-1.11±0.02	0.894±0.006	0.890±0.006	0.004±0.005	0.078±0.005
36.7	-5.0±0.3	0.2±0.3	-0.29±0.01	-1.11±0.02	0.906±0.006	0.903±0.006	0.003±0.005	0.079±0.005
39.2	-5.0±0.3	0.3±0.3	-0.27±0.01	-1.11±0.02	0.916±0.006	0.913±0.006	0.005±0.005	0.080±0.005
44.3	-4.9±0.3	0.2±0.3	-0.23±0.01	-1.11±0.02	0.941±0.006	0.938±0.006	0.003±0.005	0.081±0.005
49.4	-4.9±0.3	0.2±0.3	-0.19±0.01	-1.10±0.02	0.957±0.006	0.953±0.006	0.004±0.005	0.082±0.005
54.5	-4.8±0.3	0.3±0.3	-0.14±0.01	-1.09±0.02	0.972±0.006	0.968±0.006	0.006±0.004	0.082±0.005
59.5	-4.8±0.3	0.3±0.3	-0.12±0.01	-1.09±0.02	0.986±0.006	0.982±0.006	0.005±0.004	0.083±0.005
64.6	-4.7±0.3	0.2±0.2	-0.09±0.01	-1.09±0.02	1.000±0.006	0.997±0.006	0.004±0.004	0.082±0.006
69.7	-4.7±0.3	0.2±0.2	-0.05±0.01	-1.08±0.02	1.015±0.006	1.011±0.006	0.004±0.004	0.083±0.006
74.8	-4.6±0.3	0.2±0.2	-0.04±0.01	-1.08±0.02	1.023±0.006	1.019±0.006	0.003±0.004	0.083±0.006
79.9	-4.6±0.3	0.2±0.2	-0.02±0.01	-1.08±0.02	1.028±0.006	1.025±0.006	0.003±0.004	0.082±0.006
84.9	-4.5±0.3	0.2±0.2	0.00±0.01	-1.08±0.02	1.035±0.006	1.032±0.006	0.003±0.004	0.082±0.006
90.0	-4.4±0.3	0.1±0.2	0.00±0.01	-1.07±0.02	1.037±0.006	1.034±0.006	0.003±0.004	0.080±0.006
100.2	-4.3±0.3	0.1±0.2	0.01±0.01	-1.07±0.02	1.037±0.006	1.034±0.006	0.002±0.004	0.079±0.006
110.3	-4.3±0.3	-0.1±0.2	0.01±0.01	-1.07±0.02	1.037±0.006	1.034±0.006	-0.001±0.004	0.078±0.006
120.5	-4.3±0.3	-0.1±0.2	0.01±0.01	-1.06±0.02	1.036±0.006	1.033±0.006	-0.001±0.004	0.078±0.006
130.7	-4.3±0.3	-0.3±0.2	0.01±0.01	-1.06±0.02	1.035±0.006	1.033±0.006	-0.005±0.004	0.077±0.006
140.8	-4.2±0.3	-0.3±0.2	0.01±0.01	-1.06±0.02	1.036±0.006	1.033±0.006	-0.005±0.004	0.076±0.006

Table B.186 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-32 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.9±0.3	4.6±1.1	-0.85±0.01	-1.09±0.02	0.491±0.009	0.489±0.009	0.040±0.009	0.016±0.003
4.7	-2.6±0.3	1.4±0.9	-0.79±0.01	-1.08±0.02	0.536±0.008	0.536±0.008	0.013±0.008	0.024±0.003
5.7	-3.3±0.3	0.5±0.7	-0.75±0.01	-1.09±0.02	0.586±0.008	0.585±0.008	0.005±0.007	0.033±0.003
6.7	-3.7±0.3	0.3±0.6	-0.72±0.01	-1.10±0.02	0.623±0.007	0.622±0.007	0.003±0.007	0.040±0.003
7.7	-4.0±0.3	0.1±0.6	-0.67±0.01	-1.10±0.02	0.653±0.007	0.651±0.007	0.001±0.007	0.046±0.004
8.7	-4.3±0.3	-0.1±0.5	-0.64±0.01	-1.10±0.02	0.677±0.007	0.675±0.007	-0.001±0.006	0.050±0.004
9.8	-4.4±0.3	-0.1±0.5	-0.61±0.01	-1.11±0.02	0.706±0.007	0.704±0.007	-0.002±0.006	0.055±0.004
10.8	-4.7±0.3	-0.1±0.5	-0.56±0.01	-1.09±0.02	0.730±0.007	0.728±0.007	-0.001±0.006	0.059±0.004
11.8	-4.7±0.3	-0.1±0.5	-0.53±0.01	-1.08±0.02	0.743±0.007	0.741±0.007	-0.001±0.006	0.061±0.004
12.8	-4.7±0.3	-0.1±0.4	-0.53±0.01	-1.10±0.02	0.757±0.007	0.755±0.007	-0.001±0.006	0.062±0.004
13.8	-4.9±0.3	-0.1±0.4	-0.50±0.01	-1.11±0.02	0.782±0.007	0.779±0.007	-0.001±0.006	0.067±0.004
16.4	-5.0±0.3	0.0±0.4	-0.44±0.01	-1.10±0.02	0.809±0.007	0.806±0.007	0.000±0.005	0.070±0.004
18.9	-5.1±0.3	0.0±0.4	-0.44±0.01	-1.11±0.02	0.817±0.007	0.814±0.007	0.000±0.005	0.073±0.005
21.4	-5.3±0.3	0.0±0.4	-0.41±0.01	-1.10±0.02	0.827±0.007	0.824±0.006	0.000±0.005	0.076±0.005
24.0	-5.3±0.3	0.0±0.4	-0.39±0.01	-1.10±0.02	0.841±0.006	0.838±0.006	0.000±0.005	0.078±0.005
26.5	-5.3±0.3	0.0±0.3	-0.35±0.01	-1.08±0.02	0.853±0.006	0.850±0.006	0.000±0.005	0.079±0.005
29.1	-5.3±0.3	0.0±0.3	-0.34±0.01	-1.09±0.02	0.867±0.006	0.863±0.006	0.000±0.005	0.080±0.005
31.6	-5.2±0.3	0.0±0.3	-0.33±0.01	-1.09±0.02	0.870±0.006	0.866±0.006	0.000±0.005	0.079±0.005
34.1	-5.2±0.3	0.1±0.3	-0.30±0.01	-1.08±0.02	0.883±0.006	0.880±0.006	0.001±0.005	0.081±0.005
36.7	-5.2±0.3	0.1±0.3	-0.28±0.01	-1.09±0.02	0.899±0.006	0.896±0.006	0.001±0.005	0.082±0.005
39.2	-5.2±0.3	0.0±0.3	-0.26±0.01	-1.09±0.02	0.914±0.006	0.910±0.006	0.000±0.005	0.083±0.005
44.3	-5.2±0.3	0.1±0.3	-0.22±0.01	-1.07±0.02	0.924±0.006	0.920±0.006	0.001±0.005	0.084±0.005
49.4	-5.1±0.3	0.1±0.3	-0.19±0.01	-1.08±0.02	0.941±0.006	0.937±0.006	0.001±0.005	0.083±0.005
54.5	-5.1±0.3	0.1±0.3	-0.16±0.01	-1.08±0.02	0.960±0.006	0.956±0.006	0.002±0.005	0.085±0.005
59.5	-5.0±0.3	0.1±0.3	-0.12±0.01	-1.06±0.02	0.969±0.006	0.965±0.006	0.002±0.004	0.084±0.005
64.6	-4.9±0.3	0.1±0.3	-0.08±0.01	-1.05±0.02	0.989±0.006	0.985±0.006	0.002±0.004	0.085±0.005
69.7	-4.9±0.3	0.1±0.3	-0.07±0.01	-1.06±0.02	0.993±0.006	0.989±0.006	0.002±0.004	0.085±0.005
74.8	-4.8±0.3	0.1±0.2	-0.04±0.01	-1.05±0.02	1.005±0.006	1.002±0.006	0.002±0.004	0.085±0.006
79.9	-4.8±0.3	0.1±0.2	-0.02±0.01	-1.04±0.02	1.012±0.006	1.008±0.006	0.002±0.004	0.084±0.006
84.9	-4.7±0.3	0.1±0.2	0.00±0.01	-1.04±0.02	1.016±0.006	1.013±0.006	0.002±0.004	0.083±0.006
90.0	-4.7±0.3	0.1±0.2	0.00±0.01	-1.03±0.02	1.018±0.006	1.015±0.006	0.002±0.004	0.083±0.006
100.2	-4.5±0.3	0.0±0.2	0.01±0.01	-1.03±0.02	1.020±0.006	1.017±0.006	0.000±0.004	0.081±0.006
110.3	-4.5±0.3	-0.1±0.2	0.01±0.01	-1.03±0.02	1.019±0.006	1.016±0.006	-0.002±0.004	0.080±0.006
120.5	-4.5±0.3	-0.2±0.2	0.01±0.01	-1.03±0.02	1.019±0.006	1.015±0.006	-0.004±0.004	0.080±0.006
130.7	-4.4±0.3	-0.3±0.2	0.01±0.01	-1.03±0.02	1.017±0.006	1.014±0.006	-0.006±0.004	0.079±0.006
140.8	-4.4±0.3	-0.5±0.2	0.01±0.01	-1.03±0.02	1.018±0.006	1.015±0.006	-0.009±0.004	0.078±0.006

Table B.187 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-25 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.1±0.3	4.2±0.9	-0.81±0.01	-1.09±0.02	0.530±0.008	0.528±0.008	0.039±0.008	0.019±0.003
4.7	-3.1±0.3	1.2±0.7	-0.77±0.01	-1.10±0.02	0.574±0.008	0.574±0.008	0.012±0.007	0.031±0.003
5.7	-3.7±0.3	0.3±0.6	-0.71±0.01	-1.09±0.02	0.621±0.007	0.619±0.007	0.003±0.007	0.040±0.003
6.7	-4.3±0.3	-0.2±0.6	-0.67±0.01	-1.10±0.02	0.656±0.007	0.654±0.007	-0.002±0.007	0.049±0.004
7.7	-4.7±0.3	-0.2±0.5	-0.63±0.01	-1.10±0.02	0.686±0.007	0.684±0.007	-0.002±0.006	0.056±0.004
8.7	-5.0±0.3	-0.4±0.5	-0.58±0.01	-1.10±0.02	0.720±0.007	0.717±0.007	-0.005±0.006	0.062±0.004
9.8	-5.2±0.3	-0.4±0.4	-0.57±0.01	-1.12±0.02	0.740±0.007	0.737±0.007	-0.005±0.006	0.066±0.004
10.8	-5.3±0.3	-0.5±0.4	-0.51±0.01	-1.08±0.02	0.752±0.007	0.749±0.007	-0.007±0.006	0.069±0.004
11.8	-5.3±0.3	-0.5±0.4	-0.49±0.01	-1.09±0.02	0.774±0.007	0.770±0.007	-0.006±0.006	0.071±0.004
12.8	-5.4±0.3	-0.4±0.4	-0.49±0.01	-1.13±0.02	0.800±0.006	0.797±0.006	-0.006±0.005	0.075±0.004
13.8	-5.5±0.3	-0.4±0.4	-0.44±0.01	-1.09±0.02	0.805±0.006	0.801±0.006	-0.005±0.005	0.077±0.004
16.4	-5.5±0.3	-0.4±0.4	-0.42±0.01	-1.09±0.02	0.818±0.006	0.814±0.006	-0.006±0.005	0.079±0.005
18.9	-5.7±0.3	-0.4±0.3	-0.39±0.01	-1.10±0.02	0.840±0.006	0.835±0.006	-0.006±0.005	0.083±0.005
21.4	-5.7±0.3	-0.6±0.3	-0.37±0.01	-1.09±0.02	0.851±0.006	0.847±0.006	-0.009±0.005	0.084±0.005
24.0	-5.6±0.3	-0.6±0.3	-0.34±0.01	-1.08±0.02	0.860±0.006	0.856±0.006	-0.008±0.005	0.084±0.005
26.5	-5.6±0.3	-0.4±0.3	-0.32±0.01	-1.07±0.02	0.864±0.006	0.860±0.006	-0.007±0.005	0.085±0.005
29.1	-5.6±0.3	-0.5±0.3	-0.31±0.01	-1.10±0.02	0.885±0.006	0.881±0.006	-0.008±0.005	0.087±0.005
31.6	-5.5±0.3	-0.5±0.3	-0.29±0.01	-1.08±0.02	0.887±0.006	0.883±0.006	-0.008±0.005	0.086±0.005
34.1	-5.4±0.3	-0.4±0.3	-0.27±0.01	-1.09±0.02	0.904±0.006	0.900±0.006	-0.006±0.005	0.086±0.005
36.7	-5.5±0.3	-0.4±0.3	-0.26±0.01	-1.08±0.02	0.905±0.006	0.900±0.006	-0.007±0.005	0.086±0.005
39.2	-5.4±0.3	-0.3±0.3	-0.24±0.01	-1.08±0.02	0.916±0.006	0.912±0.006	-0.005±0.005	0.087±0.005
44.3	-5.4±0.3	-0.3±0.3	-0.20±0.01	-1.06±0.02	0.928±0.006	0.924±0.006	-0.005±0.005	0.088±0.005
49.4	-5.3±0.3	-0.2±0.3	-0.16±0.01	-1.06±0.02	0.947±0.006	0.943±0.006	-0.004±0.005	0.088±0.005
54.5	-5.3±0.3	-0.2±0.3	-0.13±0.01	-1.05±0.02	0.961±0.006	0.957±0.006	-0.003±0.004	0.088±0.005
59.5	-5.2±0.3	-0.1±0.3	-0.10±0.01	-1.05±0.02	0.975±0.006	0.971±0.006	-0.003±0.004	0.089±0.005
64.6	-5.1±0.3	-0.1±0.3	-0.07±0.01	-1.05±0.02	0.989±0.006	0.985±0.006	-0.002±0.004	0.088±0.005
69.7	-5.0±0.3	-0.1±0.2	-0.05±0.01	-1.05±0.02	0.998±0.006	0.994±0.006	-0.002±0.004	0.088±0.006
74.8	-5.0±0.3	-0.1±0.2	-0.02±0.01	-1.03±0.02	1.003±0.006	0.999±0.006	-0.002±0.004	0.087±0.006
79.9	-4.9±0.3	-0.1±0.2	-0.02±0.01	-1.04±0.02	1.010±0.006	1.006±0.006	-0.002±0.004	0.086±0.006
84.9	-4.8±0.3	-0.1±0.2	-0.01±0.01	-1.03±0.02	1.012±0.006	1.008±0.006	-0.002±0.004	0.085±0.006
90.0	-4.8±0.3	-0.1±0.2	0.01±0.01	-1.02±0.02	1.014±0.006	1.010±0.006	-0.002±0.004	0.084±0.006
100.2	-4.7±0.3	-0.2±0.2	0.01±0.01	-1.02±0.02	1.013±0.006	1.010±0.006	-0.004±0.004	0.084±0.006
110.3	-4.7±0.3	-0.3±0.2	0.01±0.01	-1.02±0.02	1.012±0.006	1.008±0.006	-0.006±0.004	0.083±0.006
120.5	-4.6±0.3	-0.3±0.2	0.01±0.01	-1.01±0.02	1.011±0.006	1.008±0.006	-0.006±0.004	0.082±0.006
130.7	-4.5±0.3	-0.5±0.2	0.01±0.01	-1.02±0.02	1.012±0.006	1.008±0.006	-0.009±0.004	0.080±0.006
140.8	-4.6±0.3	-0.6±0.2	0.01±0.01	-1.01±0.02	1.010±0.006	1.007±0.006	-0.010±0.004	0.081±0.006

Table B.188 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-19 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.2±0.3	3.7±0.9	-0.79±0.01	-1.07±0.02	0.527±0.008	0.526±0.008	0.034±0.008	0.020±0.003
4.7	-3.2±0.3	0.4±0.7	-0.76±0.01	-1.09±0.02	0.574±0.008	0.573±0.008	0.004±0.007	0.032±0.003
5.7	-4.1±0.3	-0.2±0.7	-0.69±0.01	-1.06±0.02	0.611±0.007	0.610±0.007	-0.002±0.007	0.043±0.003
6.7	-4.5±0.3	-0.4±0.6	-0.65±0.01	-1.08±0.02	0.656±0.007	0.654±0.007	-0.005±0.007	0.052±0.004
7.7	-4.9±0.3	-0.7±0.5	-0.60±0.01	-1.07±0.02	0.686±0.007	0.684±0.007	-0.009±0.006	0.058±0.004
8.7	-5.2±0.3	-1.0±0.5	-0.56±0.01	-1.08±0.02	0.721±0.007	0.718±0.007	-0.012±0.006	0.065±0.004
9.8	-5.4±0.3	-1.0±0.4	-0.54±0.01	-1.09±0.02	0.745±0.007	0.742±0.007	-0.012±0.006	0.070±0.004
10.8	-5.5±0.3	-0.9±0.4	-0.51±0.01	-1.08±0.02	0.760±0.007	0.757±0.007	-0.012±0.006	0.073±0.004
11.8	-5.6±0.3	-1.1±0.4	-0.47±0.01	-1.08±0.02	0.783±0.007	0.779±0.007	-0.016±0.005	0.076±0.004
12.8	-5.6±0.3	-1.1±0.4	-0.45±0.01	-1.09±0.02	0.797±0.006	0.793±0.006	-0.016±0.005	0.077±0.004
13.8	-5.5±0.3	-1.1±0.4	-0.43±0.01	-1.08±0.02	0.807±0.006	0.803±0.006	-0.016±0.005	0.077±0.004
16.4	-5.4±0.3	-1.2±0.4	-0.39±0.01	-1.07±0.02	0.827±0.006	0.823±0.006	-0.017±0.005	0.078±0.005
18.9	-5.3±0.3	-1.2±0.3	-0.36±0.01	-1.08±0.02	0.846±0.006	0.843±0.006	-0.018±0.005	0.078±0.005
21.4	-5.1±0.3	-1.1±0.3	-0.36±0.01	-1.09±0.02	0.853±0.006	0.849±0.006	-0.017±0.005	0.076±0.005
24.0	-5.1±0.3	-1.1±0.3	-0.35±0.01	-1.08±0.02	0.858±0.006	0.855±0.006	-0.017±0.005	0.076±0.005
26.5	-5.0±0.3	-1.0±0.3	-0.32±0.01	-1.07±0.02	0.869±0.006	0.865±0.006	-0.014±0.005	0.075±0.005
29.1	-4.9±0.3	-0.9±0.3	-0.28±0.01	-1.05±0.02	0.879±0.006	0.875±0.006	-0.014±0.005	0.075±0.005
31.6	-4.9±0.3	-0.9±0.3	-0.27±0.01	-1.06±0.02	0.887±0.006	0.883±0.006	-0.013±0.005	0.075±0.005
34.1	-4.8±0.3	-0.8±0.3	-0.25±0.01	-1.05±0.02	0.892±0.006	0.888±0.006	-0.013±0.005	0.075±0.005
36.7	-4.7±0.3	-0.7±0.3	-0.22±0.01	-1.03±0.02	0.899±0.006	0.896±0.006	-0.012±0.005	0.074±0.005
39.2	-4.7±0.3	-0.8±0.3	-0.22±0.01	-1.06±0.02	0.915±0.006	0.912±0.006	-0.012±0.005	0.075±0.005
44.3	-4.6±0.3	-0.6±0.3	-0.20±0.01	-1.06±0.02	0.930±0.006	0.927±0.006	-0.009±0.005	0.074±0.005
49.4	-4.5±0.3	-0.5±0.3	-0.16±0.01	-1.04±0.02	0.935±0.006	0.932±0.006	-0.009±0.005	0.073±0.005
54.5	-4.4±0.3	-0.5±0.3	-0.13±0.01	-1.02±0.02	0.947±0.006	0.945±0.006	-0.008±0.005	0.072±0.005
59.5	-4.3±0.3	-0.4±0.3	-0.11±0.01	-1.03±0.02	0.961±0.006	0.958±0.006	-0.007±0.004	0.071±0.005
64.6	-4.2±0.3	-0.4±0.3	-0.08±0.01	-1.02±0.02	0.971±0.006	0.968±0.006	-0.007±0.004	0.072±0.005
69.7	-4.1±0.3	-0.4±0.3	-0.04±0.01	-1.00±0.02	0.982±0.006	0.980±0.006	-0.006±0.004	0.071±0.005
74.8	-4.1±0.3	-0.3±0.3	-0.03±0.01	-1.00±0.02	0.985±0.006	0.983±0.006	-0.006±0.004	0.071±0.005
79.9	-4.0±0.3	-0.3±0.2	-0.02±0.01	-1.01±0.02	0.994±0.006	0.992±0.006	-0.005±0.004	0.070±0.005
84.9	-3.9±0.3	-0.3±0.2	0.00±0.01	-1.00±0.02	0.997±0.006	0.994±0.006	-0.006±0.004	0.068±0.006
90.0	-3.9±0.3	-0.3±0.2	0.00±0.01	-1.00±0.02	0.998±0.006	0.996±0.006	-0.006±0.004	0.068±0.006
100.2	-3.9±0.3	-0.3±0.2	0.01±0.01	-0.99±0.02	0.997±0.006	0.995±0.006	-0.006±0.004	0.067±0.006
110.3	-3.8±0.3	-0.4±0.2	0.01±0.01	-0.98±0.02	0.996±0.006	0.994±0.006	-0.006±0.004	0.066±0.006
120.5	-3.8±0.3	-0.5±0.2	0.01±0.01	-0.98±0.02	0.995±0.006	0.993±0.006	-0.008±0.004	0.066±0.005
130.7	-3.8±0.3	-0.6±0.2	0.01±0.01	-0.98±0.02	0.994±0.006	0.992±0.006	-0.010±0.004	0.065±0.005
140.8	-3.7±0.3	-0.8±0.2	0.01±0.01	-0.98±0.02	0.995±0.006	0.993±0.006	-0.014±0.004	0.064±0.005

Table B.189 Five-Hole Probe Data for the 4:1 Wedge Elliptical Nose Body at (x,z)=(391 mm,-13 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-6.6±0.3	3.4±1.0	-0.81±0.01	-1.06±0.02	0.503±0.009	0.498±0.009	0.030±0.009	0.057±0.003
4.7	-7.4±0.3	0.3±0.8	-0.74±0.01	-1.05±0.02	0.550±0.008	0.545±0.008	0.003±0.008	0.071±0.003
5.7	-7.9±0.3	-0.4±0.7	-0.72±0.01	-1.07±0.02	0.598±0.007	0.592±0.007	-0.004±0.007	0.082±0.003
6.7	-8.3±0.3	-0.9±0.6	-0.67±0.01	-1.07±0.02	0.627±0.007	0.620±0.007	-0.010±0.007	0.091±0.004
7.7	-8.5±0.3	-1.3±0.5	-0.63±0.01	-1.08±0.02	0.672±0.007	0.665±0.007	-0.015±0.006	0.100±0.004
8.7	-8.8±0.3	-1.2±0.5	-0.60±0.01	-1.09±0.02	0.696±0.007	0.688±0.007	-0.014±0.006	0.106±0.004
9.8	-8.9±0.3	-1.5±0.5	-0.57±0.01	-1.09±0.02	0.719±0.007	0.711±0.007	-0.019±0.006	0.111±0.004
10.8	-8.7±0.3	-1.6±0.5	-0.56±0.01	-1.07±0.02	0.717±0.007	0.708±0.007	-0.019±0.006	0.109±0.004
11.8	-8.7±0.3	-1.7±0.5	-0.54±0.01	-1.05±0.02	0.718±0.007	0.710±0.007	-0.021±0.006	0.109±0.004
12.8	-8.6±0.3	-1.6±0.5	-0.54±0.01	-1.07±0.02	0.725±0.007	0.717±0.007	-0.020±0.006	0.108±0.004
13.8	-8.4±0.3	-1.8±0.5	-0.53±0.01	-1.06±0.02	0.728±0.007	0.719±0.007	-0.022±0.006	0.106±0.004
16.4	-8.0±0.3	-1.5±0.5	-0.53±0.01	-1.07±0.02	0.736±0.007	0.729±0.007	-0.019±0.006	0.103±0.004
18.9	-7.7±0.3	-1.5±0.5	-0.52±0.01	-1.07±0.02	0.738±0.007	0.731±0.007	-0.019±0.006	0.099±0.004
21.4	-7.5±0.3	-1.5±0.4	-0.50±0.01	-1.05±0.02	0.744±0.007	0.738±0.007	-0.019±0.006	0.098±0.004
24.0	-7.4±0.3	-1.4±0.4	-0.49±0.01	-1.08±0.02	0.774±0.007	0.768±0.007	-0.018±0.006	0.100±0.004
26.5	-7.3±0.3	-1.5±0.4	-0.41±0.01	-1.02±0.02	0.782±0.007	0.775±0.007	-0.020±0.005	0.100±0.004
29.1	-7.3±0.3	-1.3±0.4	-0.40±0.01	-1.06±0.02	0.809±0.006	0.803±0.006	-0.018±0.005	0.103±0.005
31.6	-7.3±0.3	-1.2±0.4	-0.37±0.01	-1.06±0.02	0.832±0.006	0.825±0.006	-0.017±0.005	0.105±0.005
34.1	-7.1±0.3	-1.3±0.3	-0.32±0.01	-1.05±0.02	0.854±0.006	0.847±0.006	-0.019±0.005	0.106±0.005
36.7	-6.9±0.3	-1.2±0.3	-0.27±0.01	-1.03±0.02	0.871±0.006	0.864±0.006	-0.019±0.005	0.105±0.005
39.2	-6.8±0.3	-1.2±0.3	-0.25±0.01	-1.04±0.02	0.889±0.006	0.882±0.006	-0.018±0.005	0.105±0.005
44.3	-6.5±0.3	-1.2±0.3	-0.20±0.01	-1.02±0.02	0.905±0.006	0.899±0.006	-0.019±0.005	0.103±0.005
49.4	-6.3±0.3	-1.1±0.3	-0.16±0.01	-1.02±0.02	0.925±0.006	0.920±0.006	-0.017±0.005	0.101±0.005
54.5	-6.1±0.3	-1.0±0.3	-0.13±0.01	-1.01±0.02	0.936±0.006	0.931±0.006	-0.016±0.005	0.099±0.005
59.5	-5.9±0.3	-0.9±0.3	-0.10±0.01	-0.99±0.02	0.943±0.006	0.938±0.006	-0.015±0.005	0.097±0.005
64.6	-5.8±0.3	-0.8±0.3	-0.07±0.01	-0.99±0.02	0.956±0.006	0.951±0.006	-0.013±0.004	0.097±0.005
69.7	-5.7±0.3	-0.7±0.3	-0.05±0.01	-0.98±0.02	0.964±0.006	0.959±0.006	-0.011±0.004	0.095±0.005
74.8	-5.6±0.3	-0.6±0.3	-0.02±0.01	-0.96±0.02	0.968±0.006	0.964±0.006	-0.010±0.004	0.094±0.005
79.9	-5.5±0.3	-0.4±0.3	-0.02±0.01	-0.96±0.02	0.971±0.006	0.966±0.006	-0.007±0.004	0.094±0.005
84.9	-5.5±0.3	-0.5±0.3	-0.01±0.01	-0.96±0.02	0.972±0.006	0.968±0.006	-0.008±0.004	0.093±0.005
90.0	-5.5±0.3	-0.5±0.3	-0.01±0.01	-0.95±0.02	0.971±0.006	0.967±0.006	-0.008±0.004	0.093±0.005
100.2	-5.4±0.3	-0.5±0.3	-0.01±0.01	-0.95±0.02	0.969±0.006	0.964±0.006	-0.008±0.004	0.091±0.005
110.3	-5.3±0.3	-0.6±0.3	0.00±0.01	-0.94±0.02	0.968±0.006	0.964±0.006	-0.010±0.004	0.090±0.005
120.5	-5.5±0.3	-0.6±0.3	-0.01±0.01	-0.94±0.02	0.968±0.006	0.963±0.006	-0.011±0.004	0.092±0.005
130.7	-5.4±0.3	-0.8±0.3	-0.01±0.01	-0.94±0.02	0.965±0.006	0.961±0.006	-0.014±0.004	0.090±0.005
140.8	-5.2±0.3	-0.8±0.3	-0.02±0.01	-0.94±0.02	0.962±0.006	0.958±0.006	-0.014±0.004	0.088±0.005

Table B.190 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.0±0.3	1.1±0.6	-0.75±0.01	-1.21±0.02	0.676±0.007	0.675±0.007	0.013±0.007	0.035±0.004
4.7	-2.8±0.3	0.5±0.5	-0.71±0.01	-1.22±0.02	0.714±0.007	0.713±0.007	0.006±0.006	0.034±0.004
5.7	-2.7±0.3	0.3±0.5	-0.66±0.01	-1.21±0.02	0.741±0.007	0.741±0.007	0.004±0.006	0.034±0.004
6.7	-2.5±0.3	0.3±0.4	-0.65±0.01	-1.23±0.02	0.760±0.007	0.759±0.007	0.004±0.006	0.033±0.004
7.7	-2.4±0.3	0.1±0.4	-0.62±0.01	-1.22±0.02	0.771±0.007	0.770±0.007	0.001±0.006	0.033±0.004
8.7	-2.3±0.3	0.0±0.4	-0.62±0.01	-1.23±0.02	0.787±0.007	0.786±0.007	0.000±0.006	0.031±0.004
9.8	-2.1±0.3	0.0±0.4	-0.58±0.01	-1.22±0.02	0.796±0.007	0.796±0.007	0.000±0.006	0.030±0.004
10.8	-2.0±0.3	0.0±0.4	-0.57±0.01	-1.23±0.02	0.811±0.007	0.810±0.007	0.000±0.006	0.028±0.004
11.8	-1.9±0.3	0.0±0.4	-0.55±0.01	-1.22±0.02	0.819±0.007	0.819±0.007	0.000±0.005	0.028±0.005
12.8	-1.9±0.3	0.0±0.4	-0.53±0.01	-1.22±0.02	0.831±0.007	0.830±0.007	0.001±0.005	0.028±0.005
13.8	-1.9±0.3	0.1±0.4	-0.52±0.01	-1.22±0.02	0.836±0.007	0.835±0.007	0.002±0.005	0.027±0.005
16.4	-1.7±0.3	0.1±0.4	-0.50±0.01	-1.22±0.02	0.850±0.007	0.850±0.007	0.001±0.005	0.025±0.005
18.9	-1.7±0.3	0.2±0.3	-0.46±0.01	-1.22±0.02	0.869±0.007	0.868±0.007	0.003±0.005	0.026±0.005
21.4	-1.6±0.3	0.1±0.3	-0.43±0.01	-1.21±0.02	0.883±0.007	0.883±0.007	0.002±0.005	0.025±0.005
24.0	-1.6±0.3	0.2±0.3	-0.40±0.01	-1.22±0.02	0.901±0.007	0.900±0.007	0.003±0.005	0.025±0.005
26.5	-1.6±0.3	0.3±0.3	-0.38±0.01	-1.22±0.02	0.915±0.007	0.914±0.007	0.005±0.005	0.026±0.005
29.1	-1.6±0.3	0.3±0.3	-0.36±0.01	-1.22±0.02	0.928±0.007	0.927±0.007	0.005±0.005	0.026±0.005
31.6	-1.5±0.3	0.4±0.3	-0.34±0.01	-1.22±0.02	0.939±0.007	0.939±0.007	0.006±0.005	0.025±0.005
34.1	-1.5±0.3	0.3±0.3	-0.31±0.01	-1.21±0.02	0.948±0.007	0.947±0.007	0.004±0.005	0.025±0.005
36.7	-1.5±0.3	0.3±0.3	-0.29±0.01	-1.22±0.02	0.966±0.007	0.965±0.007	0.005±0.005	0.025±0.005
39.2	-1.5±0.3	0.3±0.3	-0.27±0.01	-1.22±0.02	0.973±0.007	0.973±0.007	0.006±0.005	0.026±0.005
44.3	-1.5±0.3	0.4±0.3	-0.23±0.01	-1.22±0.02	0.995±0.007	0.995±0.007	0.006±0.005	0.026±0.005
49.4	-1.5±0.3	0.4±0.2	-0.18±0.01	-1.22±0.02	1.015±0.007	1.015±0.007	0.007±0.004	0.026±0.006
54.5	-1.4±0.3	0.4±0.2	-0.15±0.01	-1.21±0.02	1.033±0.007	1.033±0.007	0.006±0.004	0.026±0.006
59.5	-1.4±0.3	0.4±0.2	-0.11±0.01	-1.21±0.02	1.048±0.007	1.048±0.007	0.007±0.004	0.025±0.006
64.6	-1.4±0.3	0.4±0.2	-0.08±0.01	-1.21±0.02	1.064±0.007	1.064±0.007	0.007±0.004	0.025±0.006
69.7	-1.3±0.3	0.4±0.2	-0.05±0.01	-1.22±0.02	1.081±0.007	1.081±0.007	0.008±0.004	0.024±0.006
74.8	-1.3±0.3	0.4±0.2	-0.02±0.01	-1.21±0.02	1.089±0.007	1.088±0.007	0.008±0.004	0.025±0.006
79.9	-1.2±0.3	0.4±0.2	-0.01±0.01	-1.21±0.02	1.097±0.007	1.097±0.007	0.008±0.004	0.023±0.006
84.9	-1.2±0.3	0.4±0.2	0.00±0.01	-1.21±0.02	1.101±0.007	1.100±0.007	0.008±0.004	0.023±0.006
90.0	-1.2±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.102±0.007	1.101±0.007	0.009±0.004	0.023±0.006
100.2	-1.1±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.103±0.007	1.103±0.007	0.009±0.004	0.021±0.006
110.3	-1.0±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.104±0.007	1.103±0.007	0.007±0.004	0.020±0.006
120.5	-1.1±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.102±0.007	1.102±0.007	0.007±0.004	0.021±0.006
130.7	-1.0±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.103±0.007	1.103±0.007	0.007±0.004	0.020±0.006
140.8	-1.0±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.103±0.007	1.103±0.007	0.007±0.004	0.019±0.006

Table B.191 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.0±0.3	1.0±0.6	-0.76±0.01	-1.22±0.02	0.677±0.007	0.676±0.007	0.012±0.007	0.036±0.004
4.7	-2.8±0.3	0.5±0.5	-0.72±0.01	-1.22±0.02	0.704±0.007	0.703±0.007	0.006±0.006	0.035±0.004
5.7	-2.8±0.3	0.3±0.5	-0.69±0.01	-1.22±0.02	0.725±0.007	0.724±0.007	0.004±0.006	0.036±0.004
6.7	-2.7±0.3	0.3±0.5	-0.66±0.01	-1.22±0.02	0.753±0.007	0.752±0.007	0.004±0.006	0.036±0.004
7.7	-2.4±0.3	0.1±0.4	-0.64±0.01	-1.22±0.02	0.761±0.007	0.760±0.007	0.001±0.006	0.032±0.004
8.7	-2.3±0.3	0.1±0.4	-0.61±0.01	-1.24±0.02	0.791±0.007	0.790±0.007	0.001±0.006	0.032±0.004
9.8	-2.3±0.3	0.1±0.4	-0.60±0.01	-1.23±0.02	0.790±0.007	0.789±0.007	0.001±0.006	0.032±0.004
10.8	-2.2±0.3	0.0±0.4	-0.58±0.01	-1.23±0.02	0.803±0.007	0.803±0.007	0.000±0.006	0.030±0.004
11.8	-2.1±0.3	0.0±0.4	-0.55±0.01	-1.22±0.02	0.814±0.007	0.814±0.007	0.000±0.006	0.030±0.004
12.8	-2.0±0.3	0.0±0.4	-0.54±0.01	-1.22±0.02	0.823±0.007	0.823±0.007	0.000±0.005	0.029±0.005
13.8	-2.1±0.3	0.1±0.4	-0.53±0.01	-1.21±0.02	0.827±0.007	0.827±0.007	0.002±0.005	0.030±0.005
16.4	-1.9±0.3	0.1±0.4	-0.49±0.01	-1.22±0.02	0.851±0.007	0.851±0.007	0.001±0.005	0.029±0.005
18.9	-1.9±0.3	0.1±0.3	-0.47±0.01	-1.23±0.02	0.872±0.007	0.871±0.007	0.001±0.005	0.029±0.005
21.4	-1.9±0.3	0.1±0.3	-0.44±0.01	-1.23±0.02	0.888±0.007	0.888±0.007	0.002±0.005	0.030±0.005
24.0	-1.9±0.3	0.1±0.3	-0.40±0.01	-1.21±0.02	0.901±0.007	0.900±0.007	0.001±0.005	0.030±0.005
26.5	-1.9±0.3	0.3±0.3	-0.37±0.01	-1.21±0.02	0.920±0.007	0.919±0.007	0.005±0.005	0.031±0.005
29.1	-1.9±0.3	0.3±0.3	-0.35±0.01	-1.22±0.02	0.930±0.007	0.930±0.007	0.004±0.005	0.030±0.005
31.6	-1.9±0.3	0.2±0.3	-0.34±0.01	-1.22±0.02	0.935±0.007	0.935±0.007	0.003±0.005	0.031±0.005
34.1	-1.9±0.3	0.3±0.3	-0.33±0.01	-1.23±0.02	0.953±0.007	0.953±0.007	0.005±0.005	0.032±0.005
36.7	-1.9±0.3	0.3±0.3	-0.28±0.01	-1.21±0.02	0.963±0.007	0.963±0.007	0.005±0.005	0.031±0.005
39.2	-1.9±0.3	0.3±0.3	-0.26±0.01	-1.22±0.02	0.978±0.007	0.978±0.007	0.006±0.005	0.033±0.005
44.3	-1.8±0.3	0.4±0.3	-0.22±0.01	-1.23±0.02	1.004±0.007	1.003±0.007	0.007±0.004	0.032±0.006
49.4	-1.8±0.3	0.3±0.2	-0.18±0.01	-1.22±0.02	1.018±0.007	1.018±0.007	0.006±0.004	0.032±0.006
54.5	-1.8±0.3	0.4±0.2	-0.14±0.01	-1.22±0.02	1.039±0.007	1.039±0.007	0.007±0.004	0.033±0.006
59.5	-1.8±0.3	0.4±0.2	-0.11±0.01	-1.22±0.02	1.055±0.007	1.054±0.007	0.007±0.004	0.032±0.006
64.6	-1.7±0.3	0.4±0.2	-0.07±0.01	-1.21±0.02	1.070±0.007	1.069±0.007	0.007±0.004	0.032±0.006
69.7	-1.6±0.3	0.4±0.2	-0.05±0.01	-1.21±0.02	1.079±0.007	1.078±0.007	0.007±0.004	0.031±0.006
74.8	-1.6±0.3	0.4±0.2	-0.02±0.01	-1.22±0.02	1.092±0.007	1.092±0.007	0.008±0.004	0.031±0.006
79.9	-1.6±0.3	0.4±0.2	-0.01±0.01	-1.21±0.02	1.098±0.007	1.098±0.007	0.008±0.004	0.031±0.006
84.9	-1.6±0.3	0.4±0.2	0.00±0.01	-1.22±0.02	1.103±0.007	1.102±0.007	0.008±0.004	0.030±0.006
90.0	-1.6±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.105±0.007	1.104±0.007	0.008±0.004	0.030±0.006
100.2	-1.6±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.106±0.007	1.106±0.007	0.008±0.004	0.030±0.006
110.3	-1.6±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.106±0.007	1.105±0.007	0.007±0.004	0.030±0.006
120.5	-1.5±0.3	0.2±0.2	0.01±0.01	-1.22±0.02	1.107±0.007	1.106±0.007	0.004±0.004	0.028±0.006
130.7	-1.4±0.3	0.2±0.2	0.01±0.01	-1.21±0.02	1.105±0.007	1.105±0.007	0.004±0.004	0.027±0.006
140.8	-1.3±0.3	0.2±0.2	0.01±0.01	-1.22±0.02	1.107±0.007	1.107±0.007	0.003±0.004	0.026±0.006

Table B.192 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.3±0.3	1.0±0.6	-0.75±0.01	-1.21±0.02	0.680±0.007	0.679±0.007	0.012±0.007	0.040±0.004
4.7	-3.1±0.3	0.5±0.5	-0.70±0.01	-1.21±0.02	0.709±0.007	0.708±0.007	0.006±0.006	0.039±0.004
5.7	-3.1±0.3	0.3±0.5	-0.68±0.01	-1.22±0.02	0.735±0.007	0.734±0.007	0.004±0.006	0.039±0.004
6.7	-2.8±0.3	0.2±0.4	-0.65±0.01	-1.22±0.02	0.755±0.007	0.754±0.007	0.002±0.006	0.037±0.004
7.7	-2.8±0.3	0.0±0.4	-0.62±0.01	-1.22±0.02	0.773±0.007	0.773±0.007	-0.001±0.006	0.038±0.004
8.7	-2.6±0.3	-0.1±0.4	-0.59±0.01	-1.20±0.02	0.782±0.007	0.781±0.007	-0.001±0.006	0.036±0.004
9.8	-2.6±0.3	-0.1±0.4	-0.57±0.01	-1.20±0.02	0.797±0.007	0.797±0.007	-0.001±0.006	0.036±0.004
10.8	-2.5±0.3	0.0±0.4	-0.55±0.01	-1.21±0.02	0.809±0.007	0.808±0.007	0.000±0.006	0.035±0.004
11.8	-2.4±0.3	0.0±0.4	-0.54±0.01	-1.21±0.02	0.821±0.007	0.820±0.007	0.000±0.005	0.034±0.005
12.8	-2.4±0.3	0.0±0.4	-0.53±0.01	-1.22±0.02	0.830±0.007	0.829±0.007	0.000±0.005	0.034±0.005
13.8	-2.3±0.3	0.0±0.4	-0.51±0.01	-1.21±0.02	0.836±0.007	0.835±0.007	0.000±0.005	0.034±0.005
16.4	-2.3±0.3	0.1±0.4	-0.48±0.01	-1.21±0.02	0.853±0.007	0.853±0.007	0.001±0.005	0.034±0.005
18.9	-2.3±0.3	0.0±0.3	-0.45±0.01	-1.22±0.02	0.872±0.007	0.871±0.007	0.001±0.005	0.035±0.005
21.4	-2.3±0.3	0.1±0.3	-0.43±0.01	-1.22±0.02	0.889±0.007	0.888±0.007	0.002±0.005	0.035±0.005
24.0	-2.3±0.3	0.1±0.3	-0.40±0.01	-1.21±0.02	0.904±0.007	0.903±0.007	0.002±0.005	0.036±0.005
26.5	-2.3±0.3	0.1±0.3	-0.37±0.01	-1.21±0.02	0.915±0.007	0.914±0.007	0.002±0.005	0.036±0.005
29.1	-2.2±0.3	0.2±0.3	-0.34±0.01	-1.20±0.02	0.929±0.007	0.928±0.007	0.003±0.005	0.036±0.005
31.6	-2.3±0.3	0.2±0.3	-0.33±0.01	-1.22±0.02	0.945±0.007	0.944±0.007	0.003±0.005	0.038±0.005
34.1	-2.3±0.3	0.2±0.3	-0.31±0.01	-1.21±0.02	0.951±0.007	0.950±0.007	0.003±0.005	0.038±0.005
36.7	-2.3±0.3	0.2±0.3	-0.28±0.01	-1.22±0.02	0.968±0.007	0.967±0.007	0.003±0.005	0.038±0.005
39.2	-2.2±0.3	0.3±0.3	-0.26±0.01	-1.21±0.02	0.976±0.007	0.975±0.007	0.004±0.005	0.038±0.005
44.3	-2.2±0.3	0.3±0.3	-0.20±0.01	-1.20±0.02	0.996±0.007	0.995±0.007	0.006±0.004	0.039±0.005
49.4	-2.2±0.3	0.4±0.2	-0.17±0.01	-1.21±0.02	1.017±0.007	1.016±0.007	0.007±0.004	0.039±0.006
54.5	-2.2±0.3	0.4±0.2	-0.13±0.01	-1.21±0.02	1.039±0.007	1.038±0.007	0.007±0.004	0.039±0.006
59.5	-2.2±0.3	0.4±0.2	-0.11±0.01	-1.22±0.02	1.054±0.007	1.053±0.007	0.007±0.004	0.040±0.006
64.6	-2.2±0.3	0.4±0.2	-0.07±0.01	-1.20±0.02	1.064±0.007	1.063±0.007	0.007±0.004	0.040±0.006
69.7	-2.2±0.3	0.4±0.2	-0.04±0.01	-1.20±0.02	1.077±0.007	1.076±0.007	0.008±0.004	0.041±0.006
74.8	-2.1±0.3	0.4±0.2	-0.02±0.01	-1.20±0.02	1.090±0.007	1.090±0.007	0.008±0.004	0.041±0.006
79.9	-2.1±0.3	0.4±0.2	-0.01±0.01	-1.21±0.02	1.096±0.007	1.095±0.007	0.007±0.004	0.040±0.006
84.9	-2.0±0.3	0.4±0.2	0.00±0.01	-1.21±0.02	1.100±0.007	1.100±0.007	0.007±0.004	0.038±0.006
90.0	-2.0±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.103±0.007	1.102±0.007	0.008±0.004	0.039±0.006
100.2	-2.0±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.103±0.007	1.102±0.007	0.007±0.004	0.039±0.006
110.3	-2.0±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.102±0.007	1.101±0.007	0.007±0.004	0.038±0.006
120.5	-1.8±0.3	0.2±0.2	0.01±0.01	-1.21±0.02	1.102±0.007	1.101±0.007	0.004±0.004	0.035±0.006
130.7	-1.8±0.3	0.2±0.2	0.01±0.01	-1.21±0.02	1.103±0.007	1.102±0.007	0.004±0.004	0.035±0.006
140.8	-1.8±0.3	0.2±0.2	0.01±0.01	-1.21±0.02	1.104±0.007	1.103±0.007	0.004±0.004	0.034±0.006

Table B.193 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.8±0.3	1.1±0.6	-0.76±0.01	-1.19±0.02	0.654±0.007	0.653±0.007	0.012±0.007	0.044±0.004
4.7	-3.7±0.3	0.4±0.5	-0.73±0.01	-1.20±0.02	0.690±0.007	0.688±0.007	0.005±0.006	0.045±0.004
5.7	-3.6±0.3	0.2±0.5	-0.69±0.01	-1.20±0.02	0.711±0.007	0.710±0.007	0.003±0.006	0.044±0.004
6.7	-3.3±0.3	0.1±0.5	-0.66±0.01	-1.20±0.02	0.732±0.007	0.731±0.007	0.002±0.006	0.043±0.004
7.7	-3.2±0.3	0.0±0.5	-0.64±0.01	-1.19±0.02	0.744±0.007	0.743±0.007	0.000±0.006	0.042±0.004
8.7	-3.1±0.3	-0.1±0.4	-0.62±0.01	-1.21±0.02	0.768±0.007	0.767±0.007	-0.001±0.006	0.042±0.004
9.8	-2.9±0.3	0.0±0.4	-0.61±0.01	-1.20±0.02	0.770±0.007	0.769±0.007	0.000±0.006	0.039±0.004
10.8	-2.8±0.3	0.0±0.4	-0.59±0.01	-1.21±0.02	0.786±0.007	0.785±0.007	0.000±0.006	0.039±0.004
11.8	-2.7±0.3	0.0±0.4	-0.58±0.01	-1.21±0.02	0.797±0.007	0.796±0.007	0.001±0.006	0.038±0.004
12.8	-2.7±0.3	0.1±0.4	-0.56±0.01	-1.20±0.02	0.801±0.007	0.801±0.007	0.001±0.006	0.038±0.004
13.8	-2.6±0.3	0.0±0.4	-0.54±0.01	-1.20±0.02	0.807±0.007	0.806±0.007	0.001±0.006	0.037±0.004
16.4	-2.5±0.3	0.2±0.4	-0.53±0.01	-1.22±0.02	0.833±0.007	0.832±0.007	0.002±0.005	0.036±0.005
18.9	-2.4±0.3	0.3±0.4	-0.48±0.01	-1.20±0.02	0.849±0.007	0.848±0.007	0.004±0.005	0.036±0.005
21.4	-2.5±0.3	0.3±0.3	-0.45±0.01	-1.19±0.02	0.866±0.007	0.865±0.007	0.005±0.005	0.037±0.005
24.0	-2.5±0.3	0.3±0.3	-0.43±0.01	-1.20±0.02	0.880±0.007	0.879±0.007	0.005±0.005	0.038±0.005
26.5	-2.5±0.3	0.3±0.3	-0.39±0.01	-1.20±0.02	0.897±0.007	0.896±0.007	0.005±0.005	0.039±0.005
29.1	-2.4±0.3	0.4±0.3	-0.37±0.01	-1.20±0.02	0.911±0.007	0.910±0.007	0.006±0.005	0.038±0.005
31.6	-2.4±0.3	0.4±0.3	-0.35±0.01	-1.20±0.02	0.923±0.007	0.922±0.007	0.006±0.005	0.039±0.005
34.1	-2.4±0.3	0.4±0.3	-0.32±0.01	-1.20±0.02	0.936±0.007	0.935±0.007	0.006±0.005	0.039±0.005
36.7	-2.5±0.3	0.4±0.3	-0.30±0.01	-1.20±0.02	0.948±0.007	0.947±0.007	0.007±0.005	0.041±0.005
39.2	-2.4±0.3	0.4±0.3	-0.28±0.01	-1.20±0.02	0.960±0.007	0.959±0.007	0.007±0.005	0.041±0.005
44.3	-2.4±0.3	0.4±0.3	-0.23±0.01	-1.21±0.02	0.986±0.007	0.985±0.007	0.007±0.005	0.042±0.005
49.4	-2.4±0.3	0.5±0.3	-0.19±0.01	-1.20±0.02	1.006±0.007	1.005±0.007	0.008±0.004	0.043±0.006
54.5	-2.4±0.3	0.4±0.2	-0.15±0.01	-1.20±0.02	1.022±0.007	1.021±0.007	0.008±0.004	0.043±0.006
59.5	-2.4±0.3	0.4±0.2	-0.12±0.01	-1.20±0.02	1.043±0.007	1.042±0.007	0.008±0.004	0.044±0.006
64.6	-2.4±0.3	0.4±0.2	-0.08±0.01	-1.19±0.02	1.052±0.007	1.051±0.007	0.008±0.004	0.044±0.006
69.7	-2.5±0.3	0.4±0.2	-0.06±0.01	-1.21±0.02	1.070±0.007	1.069±0.007	0.008±0.004	0.046±0.006
74.8	-2.4±0.3	0.4±0.2	-0.03±0.01	-1.20±0.02	1.081±0.007	1.080±0.007	0.008±0.004	0.045±0.006
79.9	-2.4±0.3	0.5±0.2	-0.01±0.01	-1.20±0.02	1.088±0.007	1.087±0.007	0.009±0.004	0.046±0.006
84.9	-2.4±0.3	0.4±0.2	0.00±0.01	-1.20±0.02	1.094±0.007	1.093±0.007	0.008±0.004	0.045±0.006
90.0	-2.3±0.3	0.5±0.2	0.00±0.01	-1.20±0.02	1.096±0.007	1.095±0.007	0.009±0.004	0.045±0.006
100.2	-2.2±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.097±0.007	0.008±0.004	0.043±0.006
110.3	-2.2±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.097±0.007	0.007±0.004	0.043±0.006
120.5	-2.2±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.097±0.007	1.097±0.007	0.007±0.004	0.042±0.006
130.7	-2.1±0.3	0.1±0.2	0.00±0.01	-1.20±0.02	1.098±0.007	1.097±0.007	0.001±0.004	0.040±0.006
140.8	-2.1±0.3	0.0±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.097±0.007	0.000±0.004	0.040±0.006

Table B.194 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.2±0.3	1.2±0.7	-0.83±0.01	-1.19±0.02	0.605±0.008	0.604±0.008	0.012±0.007	0.023±0.003
4.7	-2.2±0.3	0.5±0.6	-0.78±0.01	-1.18±0.02	0.635±0.007	0.635±0.007	0.005±0.007	0.024±0.004
5.7	-2.1±0.3	0.3±0.6	-0.75±0.01	-1.19±0.02	0.661±0.007	0.660±0.007	0.003±0.007	0.024±0.004
6.7	-2.1±0.3	0.2±0.5	-0.72±0.01	-1.19±0.02	0.690±0.007	0.689±0.007	0.003±0.006	0.025±0.004
7.7	-1.9±0.3	0.3±0.5	-0.69±0.01	-1.19±0.02	0.712±0.007	0.712±0.007	0.003±0.006	0.024±0.004
8.7	-1.9±0.3	0.3±0.5	-0.66±0.01	-1.18±0.02	0.726±0.007	0.725±0.007	0.004±0.006	0.025±0.004
9.8	-1.9±0.3	0.3±0.5	-0.64±0.01	-1.19±0.02	0.746±0.007	0.746±0.007	0.004±0.006	0.025±0.004
10.8	-1.9±0.3	0.3±0.5	-0.63±0.01	-1.19±0.02	0.750±0.007	0.750±0.007	0.004±0.006	0.025±0.004
11.8	-1.9±0.3	0.4±0.4	-0.61±0.01	-1.19±0.02	0.766±0.007	0.765±0.007	0.005±0.006	0.026±0.004
12.8	-2.0±0.3	0.4±0.4	-0.59±0.01	-1.19±0.02	0.777±0.007	0.776±0.007	0.005±0.006	0.027±0.004
13.8	-2.0±0.3	0.4±0.4	-0.58±0.01	-1.19±0.02	0.783±0.007	0.782±0.007	0.006±0.006	0.027±0.004
16.4	-2.1±0.3	0.4±0.4	-0.54±0.01	-1.19±0.02	0.805±0.007	0.804±0.007	0.006±0.006	0.029±0.004
18.9	-2.2±0.3	0.5±0.4	-0.51±0.01	-1.19±0.02	0.826±0.007	0.826±0.007	0.007±0.005	0.032±0.005
21.4	-2.3±0.3	0.5±0.4	-0.48±0.01	-1.18±0.02	0.839±0.007	0.839±0.007	0.008±0.005	0.034±0.005
24.0	-2.4±0.3	0.5±0.4	-0.46±0.01	-1.18±0.02	0.851±0.007	0.851±0.007	0.008±0.005	0.036±0.005
26.5	-2.4±0.3	0.7±0.3	-0.43±0.01	-1.19±0.02	0.872±0.007	0.871±0.007	0.010±0.005	0.037±0.005
29.1	-2.5±0.3	0.7±0.3	-0.40±0.01	-1.19±0.02	0.885±0.007	0.884±0.007	0.010±0.005	0.039±0.005
31.6	-2.5±0.3	0.7±0.3	-0.37±0.01	-1.19±0.02	0.909±0.007	0.908±0.007	0.010±0.005	0.039±0.005
34.1	-2.5±0.3	0.7±0.3	-0.35±0.01	-1.19±0.02	0.918±0.007	0.917±0.007	0.012±0.005	0.041±0.005
36.7	-2.5±0.3	0.7±0.3	-0.32±0.01	-1.19±0.02	0.933±0.007	0.932±0.007	0.012±0.005	0.041±0.005
39.2	-2.4±0.3	0.7±0.3	-0.30±0.01	-1.19±0.02	0.945±0.007	0.945±0.007	0.012±0.005	0.040±0.005
44.3	-2.5±0.3	0.7±0.3	-0.25±0.01	-1.19±0.02	0.970±0.007	0.969±0.007	0.011±0.005	0.043±0.005
49.4	-2.5±0.3	0.7±0.3	-0.21±0.01	-1.19±0.02	0.989±0.007	0.988±0.007	0.012±0.005	0.043±0.005
54.5	-2.5±0.3	0.7±0.3	-0.16±0.01	-1.18±0.02	1.007±0.007	1.006±0.007	0.012±0.004	0.044±0.006
59.5	-2.4±0.3	0.7±0.2	-0.13±0.01	-1.18±0.02	1.027±0.007	1.026±0.007	0.012±0.004	0.043±0.006
64.6	-2.5±0.3	0.6±0.2	-0.09±0.01	-1.17±0.02	1.038±0.007	1.037±0.007	0.011±0.004	0.045±0.006
69.7	-2.4±0.3	0.6±0.2	-0.06±0.01	-1.18±0.02	1.057±0.007	1.056±0.007	0.012±0.004	0.044±0.006
74.8	-2.4±0.3	0.6±0.2	-0.04±0.01	-1.18±0.02	1.067±0.007	1.066±0.007	0.012±0.004	0.044±0.006
79.9	-2.3±0.3	0.6±0.2	-0.02±0.01	-1.18±0.02	1.076±0.007	1.075±0.007	0.012±0.004	0.043±0.006
84.9	-2.3±0.3	0.6±0.2	-0.01±0.01	-1.17±0.02	1.081±0.007	1.080±0.007	0.011±0.004	0.044±0.006
90.0	-2.3±0.3	0.4±0.2	0.00±0.01	-1.18±0.02	1.086±0.007	1.085±0.007	0.008±0.004	0.043±0.006
100.2	-2.2±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.087±0.007	0.008±0.004	0.043±0.006
110.3	-2.2±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.088±0.007	0.007±0.004	0.042±0.006
120.5	-2.1±0.3	0.3±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.087±0.007	0.006±0.004	0.040±0.006
130.7	-2.2±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.088±0.007	1.087±0.007	0.003±0.004	0.041±0.006
140.8	-2.2±0.3	0.1±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.087±0.007	0.003±0.004	0.041±0.006

Table B.195 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.8±0.3	1.2±0.7	-0.80±0.01	-1.17±0.02	0.613±0.008	0.612±0.008	0.013±0.007	0.029±0.003
4.7	-2.7±0.3	0.5±0.6	-0.76±0.01	-1.17±0.02	0.645±0.007	0.644±0.007	0.005±0.007	0.031±0.004
5.7	-2.8±0.3	0.3±0.6	-0.72±0.01	-1.18±0.02	0.681±0.007	0.681±0.007	0.003±0.007	0.033±0.004
6.7	-2.6±0.3	0.3±0.5	-0.69±0.01	-1.18±0.02	0.703±0.007	0.702±0.007	0.004±0.006	0.032±0.004
7.7	-2.6±0.3	0.2±0.5	-0.65±0.01	-1.17±0.02	0.723±0.007	0.722±0.007	0.003±0.006	0.033±0.004
8.7	-2.7±0.3	0.3±0.5	-0.63±0.01	-1.18±0.02	0.740±0.007	0.739±0.007	0.004±0.006	0.035±0.004
9.8	-2.5±0.3	0.3±0.5	-0.61±0.01	-1.18±0.02	0.753±0.007	0.752±0.007	0.004±0.006	0.032±0.004
10.8	-2.6±0.3	0.3±0.4	-0.59±0.01	-1.18±0.02	0.766±0.007	0.766±0.007	0.005±0.006	0.034±0.004
11.8	-2.6±0.3	0.4±0.4	-0.58±0.01	-1.18±0.02	0.774±0.007	0.774±0.007	0.005±0.006	0.035±0.004
12.8	-2.6±0.3	0.4±0.4	-0.55±0.01	-1.17±0.02	0.785±0.007	0.785±0.007	0.005±0.006	0.036±0.004
13.8	-2.7±0.3	0.4±0.4	-0.54±0.01	-1.17±0.02	0.798±0.007	0.797±0.007	0.006±0.006	0.037±0.004
16.4	-2.9±0.3	0.5±0.4	-0.52±0.01	-1.18±0.02	0.817±0.007	0.816±0.007	0.006±0.005	0.041±0.005
18.9	-3.0±0.3	0.5±0.4	-0.48±0.01	-1.17±0.02	0.830±0.007	0.829±0.007	0.007±0.005	0.043±0.005
21.4	-3.1±0.3	0.4±0.4	-0.48±0.01	-1.19±0.02	0.842±0.007	0.841±0.007	0.006±0.005	0.046±0.005
24.0	-3.2±0.3	0.5±0.4	-0.44±0.01	-1.17±0.02	0.856±0.007	0.855±0.007	0.008±0.005	0.048±0.005
26.5	-3.4±0.3	0.5±0.3	-0.41±0.01	-1.17±0.02	0.871±0.007	0.870±0.007	0.008±0.005	0.052±0.005
29.1	-3.4±0.3	0.7±0.3	-0.38±0.01	-1.17±0.02	0.888±0.007	0.887±0.007	0.011±0.005	0.053±0.005
31.6	-3.4±0.3	0.8±0.3	-0.36±0.01	-1.17±0.02	0.900±0.007	0.898±0.007	0.012±0.005	0.053±0.005
34.1	-3.5±0.3	0.7±0.3	-0.33±0.01	-1.17±0.02	0.916±0.007	0.914±0.007	0.012±0.005	0.056±0.005
36.7	-3.4±0.3	0.7±0.3	-0.31±0.01	-1.18±0.02	0.930±0.007	0.928±0.007	0.012±0.005	0.056±0.005
39.2	-3.5±0.3	0.7±0.3	-0.29±0.01	-1.18±0.02	0.941±0.007	0.940±0.007	0.012±0.005	0.058±0.005
44.3	-3.5±0.3	0.7±0.3	-0.24±0.01	-1.16±0.02	0.960±0.007	0.958±0.007	0.012±0.005	0.058±0.005
49.4	-3.6±0.3	0.7±0.3	-0.21±0.01	-1.17±0.02	0.980±0.007	0.978±0.007	0.011±0.005	0.061±0.005
54.5	-3.4±0.3	0.7±0.3	-0.15±0.01	-1.16±0.02	1.004±0.007	1.002±0.007	0.012±0.004	0.060±0.006
59.5	-3.5±0.3	0.7±0.2	-0.12±0.01	-1.16±0.02	1.019±0.007	1.018±0.007	0.012±0.004	0.062±0.006
64.6	-3.4±0.3	0.6±0.2	-0.10±0.01	-1.18±0.02	1.037±0.007	1.035±0.007	0.012±0.004	0.062±0.006
69.7	-3.4±0.3	0.6±0.2	-0.06±0.01	-1.16±0.02	1.047±0.007	1.046±0.007	0.012±0.004	0.063±0.006
74.8	-3.4±0.3	0.5±0.2	-0.04±0.01	-1.16±0.02	1.062±0.007	1.060±0.007	0.010±0.004	0.062±0.006
79.9	-3.3±0.3	0.5±0.2	-0.02±0.01	-1.16±0.02	1.071±0.007	1.069±0.007	0.009±0.004	0.062±0.006
84.9	-3.3±0.3	0.4±0.2	0.00±0.01	-1.16±0.02	1.074±0.007	1.072±0.007	0.008±0.004	0.062±0.006
90.0	-3.2±0.3	0.4±0.2	0.00±0.01	-1.16±0.02	1.079±0.007	1.077±0.007	0.008±0.004	0.061±0.006
100.2	-3.1±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.081±0.007	0.007±0.004	0.059±0.006
110.3	-3.1±0.3	0.3±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.080±0.007	0.006±0.004	0.059±0.006
120.5	-3.1±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.080±0.007	0.004±0.004	0.059±0.006
130.7	-3.1±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.079±0.007	-0.001±0.004	0.058±0.006
140.8	-3.0±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.080±0.007	-0.001±0.004	0.057±0.006

Table B.196 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.0±0.3	1.1±0.7	-0.80±0.01	-1.17±0.02	0.607±0.008	0.606±0.008	0.012±0.007	0.021±0.003
4.7	-2.2±0.3	0.5±0.6	-0.76±0.01	-1.17±0.02	0.635±0.007	0.635±0.007	0.005±0.007	0.024±0.004
5.7	-2.1±0.3	0.3±0.6	-0.73±0.01	-1.18±0.02	0.674±0.007	0.674±0.007	0.004±0.007	0.025±0.004
6.7	-2.3±0.3	0.3±0.5	-0.69±0.01	-1.17±0.02	0.696±0.007	0.695±0.007	0.004±0.006	0.028±0.004
7.7	-2.3±0.3	0.3±0.5	-0.65±0.01	-1.17±0.02	0.720±0.007	0.720±0.007	0.004±0.006	0.028±0.004
8.7	-2.3±0.3	0.3±0.5	-0.63±0.01	-1.17±0.02	0.738±0.007	0.737±0.007	0.004±0.006	0.029±0.004
9.8	-2.3±0.3	0.3±0.4	-0.61±0.01	-1.18±0.02	0.760±0.007	0.759±0.007	0.005±0.006	0.031±0.004
10.8	-2.3±0.3	0.4±0.4	-0.58±0.01	-1.17±0.02	0.769±0.007	0.768±0.007	0.005±0.006	0.031±0.004
11.8	-2.4±0.3	0.4±0.4	-0.57±0.01	-1.18±0.02	0.782±0.007	0.782±0.007	0.006±0.006	0.033±0.004
12.8	-2.5±0.3	0.5±0.4	-0.56±0.01	-1.18±0.02	0.791±0.007	0.790±0.007	0.006±0.006	0.035±0.004
13.8	-2.5±0.3	0.4±0.4	-0.54±0.01	-1.18±0.02	0.801±0.007	0.800±0.007	0.006±0.005	0.035±0.004
16.4	-2.7±0.3	0.5±0.4	-0.51±0.01	-1.17±0.02	0.816±0.007	0.815±0.007	0.007±0.005	0.039±0.005
18.9	-3.0±0.3	0.7±0.4	-0.49±0.01	-1.18±0.02	0.828±0.007	0.827±0.007	0.010±0.005	0.044±0.005
21.4	-3.2±0.3	0.7±0.4	-0.46±0.01	-1.17±0.02	0.848±0.007	0.846±0.007	0.011±0.005	0.047±0.005
24.0	-3.3±0.3	0.7±0.3	-0.44±0.01	-1.19±0.02	0.867±0.006	0.866±0.006	0.011±0.005	0.050±0.005
26.5	-3.5±0.3	0.8±0.3	-0.42±0.01	-1.18±0.02	0.872±0.006	0.870±0.006	0.012±0.005	0.053±0.005
29.1	-3.5±0.3	0.8±0.3	-0.38±0.01	-1.18±0.02	0.893±0.006	0.891±0.006	0.012±0.005	0.054±0.005
31.6	-3.6±0.3	0.8±0.3	-0.36±0.01	-1.18±0.02	0.901±0.006	0.899±0.006	0.012±0.005	0.056±0.005
34.1	-3.6±0.3	0.7±0.3	-0.33±0.01	-1.17±0.02	0.916±0.006	0.914±0.006	0.012±0.005	0.058±0.005
36.7	-3.6±0.3	0.7±0.3	-0.31±0.01	-1.18±0.02	0.932±0.006	0.930±0.006	0.012±0.005	0.059±0.005
39.2	-3.7±0.3	0.7±0.3	-0.29±0.01	-1.18±0.02	0.941±0.006	0.939±0.006	0.012±0.005	0.060±0.005
44.3	-3.7±0.3	0.8±0.3	-0.24±0.01	-1.17±0.02	0.961±0.006	0.959±0.006	0.013±0.005	0.062±0.005
49.4	-3.6±0.3	0.7±0.3	-0.20±0.01	-1.17±0.02	0.984±0.006	0.981±0.006	0.012±0.004	0.062±0.005
54.5	-3.7±0.3	0.7±0.3	-0.16±0.01	-1.17±0.02	1.004±0.006	1.001±0.006	0.012±0.004	0.064±0.006
59.5	-3.6±0.3	0.7±0.2	-0.12±0.01	-1.17±0.02	1.023±0.007	1.021±0.007	0.012±0.004	0.065±0.006
64.6	-3.6±0.3	0.6±0.2	-0.08±0.01	-1.16±0.02	1.038±0.007	1.036±0.007	0.010±0.004	0.066±0.006
69.7	-3.6±0.3	0.6±0.2	-0.05±0.01	-1.16±0.02	1.052±0.007	1.050±0.007	0.011±0.004	0.066±0.006
74.8	-3.5±0.3	0.5±0.2	-0.03±0.01	-1.16±0.02	1.064±0.007	1.062±0.007	0.009±0.004	0.065±0.006
79.9	-3.5±0.3	0.4±0.2	-0.02±0.01	-1.17±0.02	1.072±0.007	1.070±0.007	0.008±0.004	0.065±0.006
84.9	-3.4±0.3	0.4±0.2	0.00±0.01	-1.16±0.02	1.076±0.007	1.074±0.007	0.008±0.004	0.064±0.006
90.0	-3.4±0.3	0.4±0.2	0.00±0.01	-1.16±0.02	1.079±0.007	1.077±0.007	0.008±0.004	0.064±0.006
100.2	-3.3±0.3	0.3±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.079±0.007	0.006±0.004	0.062±0.006
110.3	-3.3±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.079±0.007	0.004±0.004	0.062±0.006
120.5	-3.3±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.079±0.007	0.000±0.004	0.062±0.006
130.7	-3.2±0.3	-0.1±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.079±0.007	-0.002±0.004	0.061±0.006
140.8	-3.1±0.3	-0.2±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.080±0.007	-0.004±0.004	0.058±0.006

Table B.197 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.6±0.3	1.0±0.7	-0.80±0.01	-1.16±0.02	0.602±0.008	0.602±0.008	0.011±0.007	0.017±0.003
4.7	-1.6±0.3	0.4±0.6	-0.76±0.01	-1.17±0.02	0.641±0.007	0.641±0.007	0.005±0.007	0.018±0.004
5.7	-1.8±0.3	0.3±0.6	-0.72±0.01	-1.16±0.02	0.667±0.007	0.667±0.007	0.003±0.007	0.020±0.004
6.7	-1.8±0.3	0.3±0.5	-0.68±0.01	-1.16±0.02	0.692±0.007	0.692±0.007	0.004±0.006	0.021±0.004
7.7	-1.8±0.3	0.3±0.5	-0.65±0.01	-1.17±0.02	0.719±0.007	0.719±0.007	0.004±0.006	0.023±0.004
8.7	-1.8±0.3	0.3±0.5	-0.62±0.01	-1.16±0.02	0.734±0.007	0.733±0.007	0.004±0.006	0.023±0.004
9.8	-1.9±0.3	0.3±0.5	-0.60±0.01	-1.17±0.02	0.751±0.007	0.750±0.007	0.005±0.006	0.025±0.004
10.8	-2.0±0.3	0.4±0.4	-0.58±0.01	-1.16±0.02	0.766±0.007	0.765±0.007	0.005±0.006	0.026±0.004
11.8	-1.9±0.3	0.4±0.4	-0.56±0.01	-1.17±0.02	0.780±0.007	0.780±0.007	0.006±0.006	0.026±0.004
12.8	-2.1±0.3	0.5±0.4	-0.55±0.01	-1.17±0.02	0.785±0.007	0.784±0.007	0.006±0.006	0.029±0.004
13.8	-2.3±0.3	0.5±0.4	-0.54±0.01	-1.18±0.02	0.795±0.007	0.794±0.007	0.006±0.006	0.031±0.004
16.4	-2.4±0.3	0.6±0.4	-0.51±0.01	-1.17±0.02	0.814±0.007	0.813±0.007	0.009±0.005	0.035±0.004
18.9	-2.7±0.3	0.7±0.4	-0.48±0.01	-1.16±0.02	0.825±0.007	0.824±0.007	0.011±0.005	0.039±0.005
21.4	-2.9±0.3	0.7±0.4	-0.46±0.01	-1.17±0.02	0.842±0.007	0.841±0.007	0.010±0.005	0.042±0.005
24.0	-3.0±0.3	0.8±0.3	-0.44±0.01	-1.18±0.02	0.859±0.007	0.858±0.007	0.011±0.005	0.045±0.005
26.5	-3.1±0.3	0.8±0.3	-0.41±0.01	-1.16±0.02	0.869±0.007	0.868±0.007	0.012±0.005	0.046±0.005
29.1	-3.2±0.3	0.8±0.3	-0.39±0.01	-1.18±0.02	0.886±0.007	0.885±0.007	0.012±0.005	0.050±0.005
31.6	-3.3±0.3	0.8±0.3	-0.36±0.01	-1.17±0.02	0.898±0.007	0.896±0.007	0.012±0.005	0.052±0.005
34.1	-3.4±0.3	0.8±0.3	-0.33±0.01	-1.15±0.02	0.908±0.007	0.906±0.007	0.012±0.005	0.054±0.005
36.7	-3.4±0.3	0.8±0.3	-0.31±0.01	-1.16±0.02	0.921±0.007	0.919±0.007	0.012±0.005	0.054±0.005
39.2	-3.4±0.3	0.7±0.3	-0.28±0.01	-1.15±0.02	0.932±0.007	0.930±0.007	0.012±0.005	0.055±0.005
44.3	-3.4±0.3	0.7±0.3	-0.25±0.01	-1.16±0.02	0.956±0.007	0.955±0.007	0.012±0.005	0.058±0.005
49.4	-3.5±0.3	0.7±0.3	-0.21±0.01	-1.17±0.02	0.976±0.007	0.974±0.007	0.012±0.005	0.059±0.005
54.5	-3.4±0.3	0.7±0.3	-0.16±0.01	-1.14±0.02	0.994±0.007	0.992±0.007	0.012±0.004	0.060±0.005
59.5	-3.4±0.3	0.7±0.2	-0.12±0.01	-1.15±0.02	1.014±0.007	1.012±0.007	0.012±0.004	0.061±0.006
64.6	-3.4±0.3	0.6±0.2	-0.09±0.01	-1.16±0.02	1.032±0.007	1.030±0.007	0.011±0.004	0.061±0.006
69.7	-3.4±0.3	0.6±0.2	-0.06±0.01	-1.15±0.02	1.044±0.007	1.042±0.007	0.012±0.004	0.062±0.006
74.8	-3.3±0.3	0.5±0.2	-0.03±0.01	-1.15±0.02	1.057±0.007	1.055±0.007	0.010±0.004	0.062±0.006
79.9	-3.3±0.3	0.5±0.2	-0.02±0.01	-1.15±0.02	1.065±0.007	1.063±0.007	0.009±0.004	0.061±0.006
84.9	-3.2±0.3	0.4±0.2	-0.01±0.01	-1.15±0.02	1.072±0.007	1.070±0.007	0.008±0.004	0.060±0.006
90.0	-3.2±0.3	0.4±0.2	0.00±0.01	-1.15±0.02	1.074±0.007	1.072±0.007	0.008±0.004	0.060±0.006
100.2	-3.1±0.3	0.3±0.2	0.01±0.01	-1.15±0.02	1.076±0.007	1.074±0.007	0.006±0.004	0.058±0.006
110.3	-3.1±0.3	0.1±0.2	0.01±0.01	-1.15±0.02	1.075±0.007	1.074±0.007	0.003±0.004	0.058±0.006
120.5	-3.1±0.3	0.1±0.2	0.01±0.01	-1.15±0.02	1.076±0.007	1.075±0.007	0.003±0.004	0.057±0.006
130.7	-3.0±0.3	-0.1±0.2	0.01±0.01	-1.15±0.02	1.076±0.007	1.074±0.007	-0.001±0.004	0.056±0.006
140.8	-2.8±0.3	-0.2±0.2	0.01±0.01	-1.15±0.02	1.076±0.007	1.074±0.007	-0.003±0.004	0.053±0.006

Table B.198 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.9±0.3	1.2±0.7	-0.80±0.01	-1.15±0.02	0.597±0.008	0.596±0.008	0.013±0.007	0.020±0.003
4.7	-2.0±0.3	0.5±0.6	-0.75±0.01	-1.15±0.02	0.632±0.007	0.632±0.007	0.005±0.007	0.023±0.003
5.7	-2.2±0.3	0.3±0.6	-0.72±0.01	-1.17±0.02	0.669±0.007	0.669±0.007	0.003±0.007	0.025±0.004
6.7	-2.2±0.3	0.3±0.5	-0.67±0.01	-1.16±0.02	0.696±0.007	0.696±0.007	0.004±0.006	0.027±0.004
7.7	-2.4±0.3	0.3±0.5	-0.64±0.01	-1.15±0.02	0.714±0.007	0.714±0.007	0.004±0.006	0.030±0.004
8.7	-2.4±0.3	0.3±0.5	-0.62±0.01	-1.17±0.02	0.740±0.007	0.739±0.007	0.004±0.006	0.031±0.004
9.8	-2.5±0.3	0.3±0.5	-0.60±0.01	-1.16±0.02	0.751±0.007	0.750±0.007	0.004±0.006	0.032±0.004
10.8	-2.6±0.3	0.4±0.4	-0.57±0.01	-1.16±0.02	0.768±0.007	0.768±0.007	0.005±0.006	0.034±0.004
11.8	-2.7±0.3	0.5±0.4	-0.56±0.01	-1.16±0.02	0.779±0.007	0.778±0.007	0.006±0.006	0.036±0.004
12.8	-2.8±0.3	0.5±0.4	-0.54±0.01	-1.16±0.02	0.789±0.007	0.788±0.007	0.006±0.006	0.038±0.004
13.8	-2.8±0.3	0.5±0.4	-0.52±0.01	-1.16±0.02	0.795±0.007	0.794±0.007	0.006±0.006	0.039±0.004
16.4	-3.1±0.3	0.5±0.4	-0.50±0.01	-1.16±0.02	0.811±0.007	0.810±0.007	0.007±0.005	0.044±0.004
18.9	-3.4±0.3	0.8±0.4	-0.49±0.01	-1.17±0.02	0.827±0.007	0.825±0.007	0.011±0.005	0.049±0.005
21.4	-3.6±0.3	0.8±0.4	-0.46±0.01	-1.16±0.02	0.838±0.007	0.836±0.007	0.011±0.005	0.052±0.005
24.0	-3.7±0.3	0.8±0.3	-0.43±0.01	-1.16±0.02	0.856±0.007	0.854±0.007	0.011±0.005	0.056±0.005
26.5	-4.0±0.3	0.8±0.3	-0.41±0.01	-1.15±0.02	0.865±0.007	0.863±0.007	0.012±0.005	0.060±0.005
29.1	-4.1±0.3	0.8±0.3	-0.39±0.01	-1.16±0.02	0.881±0.007	0.878±0.007	0.012±0.005	0.062±0.005
31.6	-4.1±0.3	0.8±0.3	-0.36±0.01	-1.17±0.02	0.897±0.007	0.895±0.007	0.012±0.005	0.064±0.005
34.1	-4.2±0.3	0.8±0.3	-0.33±0.01	-1.15±0.02	0.907±0.007	0.904±0.007	0.012±0.005	0.066±0.005
36.7	-4.2±0.3	0.8±0.3	-0.31±0.01	-1.16±0.02	0.920±0.007	0.917±0.006	0.012±0.005	0.068±0.005
39.2	-4.2±0.3	0.7±0.3	-0.29±0.01	-1.16±0.02	0.932±0.007	0.929±0.006	0.012±0.005	0.068±0.005
44.3	-4.3±0.3	0.7±0.3	-0.25±0.01	-1.16±0.02	0.952±0.007	0.950±0.006	0.012±0.005	0.071±0.005
49.4	-4.3±0.3	0.7±0.3	-0.20±0.01	-1.15±0.02	0.975±0.007	0.972±0.007	0.012±0.005	0.073±0.005
54.5	-4.3±0.3	0.7±0.3	-0.18±0.01	-1.16±0.02	0.992±0.007	0.989±0.007	0.012±0.004	0.074±0.005
59.5	-4.3±0.3	0.7±0.2	-0.13±0.01	-1.15±0.02	1.013±0.007	1.010±0.007	0.012±0.004	0.075±0.006
64.6	-4.3±0.3	0.6±0.2	-0.09±0.01	-1.14±0.02	1.028±0.007	1.025±0.007	0.011±0.004	0.077±0.006
69.7	-4.2±0.3	0.6±0.2	-0.06±0.01	-1.14±0.02	1.039±0.007	1.036±0.007	0.011±0.004	0.076±0.006
74.8	-4.2±0.3	0.5±0.2	-0.04±0.01	-1.14±0.02	1.051±0.007	1.048±0.007	0.010±0.004	0.076±0.006
79.9	-4.1±0.3	0.5±0.2	-0.02±0.01	-1.14±0.02	1.060±0.007	1.057±0.007	0.008±0.004	0.077±0.006
84.9	-4.0±0.3	0.4±0.2	-0.01±0.01	-1.14±0.02	1.065±0.007	1.062±0.007	0.008±0.004	0.075±0.006
90.0	-4.0±0.3	0.4±0.2	0.00±0.01	-1.14±0.02	1.069±0.007	1.066±0.007	0.007±0.004	0.074±0.006
100.2	-3.9±0.3	0.3±0.2	0.01±0.01	-1.14±0.02	1.070±0.007	1.068±0.007	0.006±0.004	0.073±0.006
110.3	-3.8±0.3	0.2±0.2	0.01±0.01	-1.14±0.02	1.071±0.007	1.069±0.007	0.003±0.004	0.071±0.006
120.5	-3.9±0.3	0.0±0.2	0.01±0.01	-1.14±0.02	1.070±0.007	1.068±0.007	-0.001±0.004	0.072±0.006
130.7	-3.7±0.3	-0.1±0.2	0.01±0.01	-1.14±0.02	1.070±0.007	1.068±0.007	-0.001±0.004	0.069±0.006
140.8	-3.6±0.3	-0.2±0.2	0.01±0.01	-1.14±0.02	1.070±0.007	1.068±0.007	-0.003±0.004	0.068±0.006

Table B.199 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.5±0.3	1.2±0.7	-0.79±0.01	-1.15±0.02	0.598±0.008	0.598±0.008	0.012±0.007	0.016±0.003
4.7	-1.7±0.3	0.5±0.6	-0.74±0.01	-1.14±0.02	0.633±0.007	0.633±0.007	0.005±0.007	0.019±0.004
5.7	-2.0±0.3	0.3±0.6	-0.70±0.01	-1.15±0.02	0.673±0.007	0.673±0.007	0.003±0.007	0.023±0.004
6.7	-2.2±0.3	0.3±0.5	-0.67±0.01	-1.15±0.02	0.694±0.007	0.694±0.007	0.004±0.006	0.026±0.004
7.7	-2.2±0.3	0.3±0.5	-0.63±0.01	-1.15±0.02	0.726±0.007	0.725±0.007	0.004±0.006	0.028±0.004
8.7	-2.3±0.3	0.3±0.5	-0.60±0.01	-1.15±0.02	0.743±0.007	0.742±0.007	0.004±0.006	0.030±0.004
9.8	-2.4±0.3	0.3±0.4	-0.58±0.01	-1.15±0.02	0.759±0.007	0.758±0.007	0.004±0.006	0.032±0.004
10.8	-2.5±0.3	0.4±0.4	-0.56±0.01	-1.15±0.02	0.769±0.007	0.768±0.007	0.005±0.006	0.033±0.004
11.8	-2.6±0.3	0.5±0.4	-0.54±0.01	-1.15±0.02	0.782±0.007	0.781±0.007	0.006±0.006	0.036±0.004
12.8	-2.8±0.3	0.5±0.4	-0.52±0.01	-1.14±0.02	0.787±0.007	0.786±0.007	0.006±0.006	0.039±0.004
13.8	-2.9±0.3	0.5±0.4	-0.52±0.01	-1.15±0.02	0.798±0.007	0.796±0.007	0.007±0.006	0.040±0.004
16.4	-3.2±0.3	0.6±0.4	-0.50±0.01	-1.16±0.02	0.813±0.007	0.812±0.007	0.009±0.005	0.045±0.004
18.9	-3.3±0.3	0.6±0.4	-0.47±0.01	-1.16±0.02	0.831±0.007	0.830±0.007	0.009±0.005	0.048±0.005
21.4	-3.7±0.3	0.7±0.4	-0.45±0.01	-1.15±0.02	0.840±0.007	0.838±0.007	0.011±0.005	0.054±0.005
24.0	-3.8±0.3	0.8±0.3	-0.42±0.01	-1.16±0.02	0.857±0.007	0.855±0.007	0.011±0.005	0.057±0.005
26.5	-4.0±0.3	0.8±0.3	-0.40±0.01	-1.15±0.02	0.868±0.007	0.866±0.007	0.012±0.005	0.061±0.005
29.1	-4.2±0.3	0.8±0.3	-0.37±0.01	-1.14±0.02	0.879±0.007	0.876±0.007	0.012±0.005	0.064±0.005
31.6	-4.2±0.3	0.8±0.3	-0.35±0.01	-1.15±0.02	0.894±0.007	0.892±0.007	0.012±0.005	0.065±0.005
34.1	-4.3±0.3	0.8±0.3	-0.33±0.01	-1.15±0.02	0.903±0.007	0.901±0.006	0.012±0.005	0.068±0.005
36.7	-4.4±0.3	0.7±0.3	-0.31±0.01	-1.16±0.02	0.920±0.006	0.917±0.006	0.012±0.005	0.070±0.005
39.2	-4.4±0.3	0.7±0.3	-0.28±0.01	-1.15±0.02	0.932±0.006	0.929±0.006	0.012±0.005	0.071±0.005
44.3	-4.4±0.3	0.7±0.3	-0.24±0.01	-1.14±0.02	0.950±0.006	0.947±0.006	0.012±0.005	0.073±0.005
49.4	-4.4±0.3	0.7±0.3	-0.20±0.01	-1.15±0.02	0.974±0.007	0.971±0.006	0.012±0.005	0.075±0.005
54.5	-4.4±0.3	0.7±0.3	-0.16±0.01	-1.14±0.02	0.988±0.007	0.985±0.007	0.012±0.004	0.076±0.005
59.5	-4.4±0.3	0.6±0.2	-0.12±0.01	-1.15±0.02	1.010±0.007	1.007±0.007	0.011±0.004	0.077±0.006
64.6	-4.4±0.3	0.5±0.2	-0.09±0.01	-1.13±0.02	1.020±0.007	1.017±0.007	0.010±0.004	0.078±0.006
69.7	-4.3±0.3	0.4±0.2	-0.06±0.01	-1.14±0.02	1.038±0.007	1.035±0.007	0.008±0.004	0.078±0.006
74.8	-4.2±0.3	0.4±0.2	-0.04±0.01	-1.13±0.02	1.045±0.007	1.042±0.007	0.008±0.004	0.077±0.006
79.9	-4.2±0.3	0.4±0.2	-0.02±0.01	-1.13±0.02	1.055±0.007	1.052±0.007	0.007±0.004	0.077±0.006
84.9	-4.2±0.3	0.4±0.2	0.00±0.01	-1.13±0.02	1.060±0.007	1.058±0.007	0.007±0.004	0.077±0.006
90.0	-4.1±0.3	0.3±0.2	0.00±0.01	-1.13±0.02	1.064±0.007	1.061±0.007	0.006±0.004	0.077±0.006
100.2	-4.0±0.3	0.2±0.2	0.01±0.01	-1.13±0.02	1.065±0.007	1.062±0.007	0.003±0.004	0.075±0.006
110.3	-3.9±0.3	0.1±0.2	0.01±0.01	-1.13±0.02	1.065±0.007	1.063±0.007	0.003±0.004	0.073±0.006
120.5	-3.9±0.3	-0.1±0.2	0.01±0.01	-1.13±0.02	1.064±0.007	1.062±0.007	-0.001±0.004	0.072±0.006
130.7	-3.9±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.063±0.007	1.061±0.007	-0.001±0.004	0.072±0.006
140.8	-3.7±0.3	-0.3±0.2	0.01±0.01	-1.13±0.02	1.065±0.007	1.063±0.007	-0.005±0.004	0.069±0.006

Table B.200 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.3±0.3	0.9±0.7	-0.78±0.01	-1.14±0.02	0.600±0.008	0.599±0.008	0.009±0.007	0.014±0.003
4.7	-1.8±0.3	0.3±0.6	-0.73±0.01	-1.14±0.02	0.641±0.007	0.640±0.007	0.003±0.007	0.020±0.004
5.7	-1.9±0.3	0.2±0.6	-0.69±0.01	-1.13±0.02	0.669±0.007	0.668±0.007	0.003±0.007	0.022±0.004
6.7	-2.0±0.3	0.1±0.5	-0.65±0.01	-1.14±0.02	0.697±0.007	0.697±0.007	0.001±0.006	0.025±0.004
7.7	-2.1±0.3	0.1±0.5	-0.62±0.01	-1.14±0.02	0.719±0.007	0.718±0.007	0.001±0.006	0.027±0.004
8.7	-2.2±0.3	0.3±0.5	-0.59±0.01	-1.14±0.02	0.740±0.007	0.739±0.007	0.003±0.006	0.029±0.004
9.8	-2.3±0.3	0.3±0.4	-0.57±0.01	-1.14±0.02	0.757±0.007	0.756±0.007	0.004±0.006	0.031±0.004
10.8	-2.4±0.3	0.3±0.4	-0.54±0.01	-1.13±0.02	0.772±0.007	0.771±0.007	0.004±0.006	0.033±0.004
11.8	-2.6±0.3	0.3±0.4	-0.53±0.01	-1.15±0.02	0.788±0.007	0.787±0.007	0.005±0.006	0.036±0.004
12.8	-2.7±0.3	0.4±0.4	-0.51±0.01	-1.14±0.02	0.792±0.007	0.791±0.007	0.006±0.006	0.037±0.004
13.8	-2.9±0.3	0.5±0.4	-0.49±0.01	-1.14±0.02	0.804±0.007	0.803±0.007	0.006±0.005	0.040±0.004
16.4	-3.3±0.3	0.5±0.4	-0.47±0.01	-1.14±0.02	0.818±0.007	0.817±0.007	0.007±0.005	0.047±0.005
18.9	-3.5±0.3	0.5±0.4	-0.45±0.01	-1.14±0.02	0.830±0.007	0.828±0.007	0.008±0.005	0.051±0.005
21.4	-3.7±0.3	0.6±0.4	-0.43±0.01	-1.14±0.02	0.845±0.007	0.843±0.007	0.009±0.005	0.055±0.005
24.0	-4.0±0.3	0.7±0.3	-0.41±0.01	-1.14±0.02	0.855±0.007	0.853±0.007	0.010±0.005	0.059±0.005
26.5	-4.2±0.3	0.7±0.3	-0.37±0.01	-1.13±0.02	0.869±0.006	0.867±0.006	0.010±0.005	0.063±0.005
29.1	-4.3±0.3	0.6±0.3	-0.36±0.01	-1.14±0.02	0.885±0.006	0.882±0.006	0.010±0.005	0.066±0.005
31.6	-4.4±0.3	0.7±0.3	-0.33±0.01	-1.14±0.02	0.899±0.006	0.896±0.006	0.011±0.005	0.068±0.005
34.1	-4.4±0.3	0.7±0.3	-0.32±0.01	-1.14±0.02	0.909±0.006	0.906±0.006	0.011±0.005	0.070±0.005
36.7	-4.4±0.3	0.7±0.3	-0.29±0.01	-1.14±0.02	0.922±0.006	0.919±0.006	0.011±0.005	0.072±0.005
39.2	-4.5±0.3	0.7±0.3	-0.27±0.01	-1.14±0.02	0.936±0.006	0.933±0.006	0.011±0.005	0.074±0.005
44.3	-4.6±0.3	0.6±0.3	-0.22±0.01	-1.13±0.02	0.952±0.006	0.949±0.006	0.011±0.005	0.076±0.005
49.4	-4.6±0.3	0.5±0.3	-0.19±0.01	-1.14±0.02	0.974±0.006	0.971±0.006	0.009±0.005	0.078±0.005
54.5	-4.6±0.3	0.5±0.3	-0.15±0.01	-1.12±0.02	0.986±0.006	0.983±0.006	0.008±0.004	0.080±0.005
59.5	-4.6±0.3	0.4±0.2	-0.11±0.01	-1.13±0.02	1.007±0.006	1.004±0.006	0.007±0.004	0.080±0.006
64.6	-4.5±0.3	0.4±0.2	-0.08±0.01	-1.12±0.02	1.020±0.007	1.017±0.007	0.007±0.004	0.081±0.006
69.7	-4.5±0.3	0.4±0.2	-0.05±0.01	-1.12±0.02	1.036±0.007	1.032±0.007	0.007±0.004	0.081±0.006
74.8	-4.4±0.3	0.4±0.2	-0.03±0.01	-1.12±0.02	1.047±0.007	1.044±0.007	0.007±0.004	0.080±0.006
79.9	-4.4±0.3	0.3±0.2	-0.01±0.01	-1.12±0.02	1.052±0.007	1.049±0.007	0.006±0.004	0.080±0.006
84.9	-4.3±0.3	0.2±0.2	0.00±0.01	-1.12±0.02	1.057±0.007	1.054±0.007	0.004±0.004	0.079±0.006
90.0	-4.3±0.3	0.2±0.2	0.00±0.01	-1.12±0.02	1.059±0.007	1.056±0.007	0.003±0.004	0.079±0.006
100.2	-4.2±0.3	0.1±0.2	0.01±0.01	-1.12±0.02	1.060±0.007	1.057±0.007	0.001±0.004	0.077±0.006
110.3	-4.1±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.060±0.007	1.057±0.007	-0.001±0.004	0.076±0.006
120.5	-4.0±0.3	-0.2±0.2	0.01±0.01	-1.12±0.02	1.060±0.007	1.057±0.007	-0.004±0.004	0.074±0.006
130.7	-3.9±0.3	-0.3±0.2	0.01±0.01	-1.12±0.02	1.059±0.007	1.056±0.007	-0.005±0.004	0.072±0.006
140.8	-3.8±0.3	-0.3±0.2	0.01±0.01	-1.12±0.02	1.060±0.007	1.058±0.007	-0.005±0.004	0.071±0.006

Table B.201 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.4±0.3	1.2±0.8	-0.78±0.01	-1.12±0.02	0.580±0.008	0.580±0.008	0.012±0.008	0.014±0.003
4.7	-1.7±0.3	0.5±0.6	-0.74±0.01	-1.13±0.02	0.629±0.007	0.628±0.007	0.005±0.007	0.018±0.003
5.7	-1.9±0.3	0.3±0.6	-0.69±0.01	-1.12±0.02	0.657±0.007	0.657±0.007	0.003±0.007	0.022±0.004
6.7	-2.2±0.3	0.3±0.6	-0.66±0.01	-1.12±0.02	0.673±0.007	0.673±0.007	0.004±0.007	0.026±0.004
7.7	-2.4±0.3	0.3±0.5	-0.63±0.01	-1.12±0.02	0.700±0.007	0.699±0.007	0.004±0.006	0.030±0.004
8.7	-2.5±0.3	0.3±0.5	-0.60±0.01	-1.12±0.02	0.717±0.007	0.717±0.007	0.004±0.006	0.031±0.004
9.8	-2.6±0.3	0.3±0.5	-0.58±0.01	-1.12±0.02	0.737±0.007	0.737±0.007	0.004±0.006	0.034±0.004
10.8	-2.8±0.3	0.4±0.4	-0.55±0.01	-1.13±0.02	0.758±0.007	0.757±0.007	0.006±0.006	0.037±0.004
11.8	-2.9±0.3	0.4±0.4	-0.54±0.01	-1.13±0.02	0.769±0.007	0.768±0.007	0.006±0.006	0.038±0.004
12.8	-3.0±0.3	0.5±0.4	-0.53±0.01	-1.14±0.02	0.776±0.007	0.775±0.007	0.006±0.006	0.041±0.004
13.8	-3.2±0.3	0.5±0.4	-0.51±0.01	-1.12±0.02	0.785±0.007	0.784±0.007	0.006±0.006	0.044±0.004
16.4	-3.5±0.3	0.5±0.4	-0.48±0.01	-1.13±0.02	0.804±0.007	0.803±0.007	0.008±0.006	0.050±0.004
18.9	-3.8±0.3	0.6±0.4	-0.46±0.01	-1.13±0.02	0.820±0.007	0.819±0.007	0.009±0.005	0.055±0.005
21.4	-4.1±0.3	0.7±0.4	-0.43±0.01	-1.13±0.02	0.837±0.007	0.835±0.007	0.011±0.005	0.060±0.005
24.0	-4.3±0.3	0.7±0.4	-0.40±0.01	-1.12±0.02	0.848±0.007	0.845±0.007	0.011±0.005	0.063±0.005
26.5	-4.5±0.3	0.7±0.3	-0.38±0.01	-1.12±0.02	0.862±0.007	0.859±0.007	0.010±0.005	0.068±0.005
29.1	-4.6±0.3	0.7±0.3	-0.36±0.01	-1.13±0.02	0.877±0.007	0.874±0.006	0.010±0.005	0.071±0.005
31.6	-4.7±0.3	0.6±0.3	-0.34±0.01	-1.12±0.02	0.887±0.007	0.884±0.006	0.010±0.005	0.073±0.005
34.1	-4.8±0.3	0.6±0.3	-0.31±0.01	-1.12±0.02	0.898±0.006	0.895±0.006	0.009±0.005	0.075±0.005
36.7	-4.9±0.3	0.6±0.3	-0.29±0.01	-1.12±0.02	0.911±0.006	0.908±0.006	0.009±0.005	0.077±0.005
39.2	-4.9±0.3	0.5±0.3	-0.27±0.01	-1.11±0.02	0.919±0.006	0.916±0.006	0.008±0.005	0.078±0.005
44.3	-4.9±0.3	0.5±0.3	-0.23±0.01	-1.11±0.02	0.940±0.006	0.936±0.006	0.008±0.005	0.081±0.005
49.4	-5.0±0.3	0.5±0.3	-0.19±0.01	-1.12±0.02	0.963±0.006	0.959±0.006	0.008±0.005	0.084±0.005
54.5	-5.0±0.3	0.4±0.3	-0.15±0.01	-1.10±0.02	0.977±0.006	0.974±0.006	0.007±0.005	0.085±0.005
59.5	-4.9±0.3	0.4±0.3	-0.11±0.01	-1.11±0.02	0.999±0.007	0.996±0.006	0.007±0.004	0.086±0.006
64.6	-4.9±0.3	0.4±0.2	-0.07±0.01	-1.09±0.02	1.012±0.007	1.008±0.007	0.007±0.004	0.086±0.006
69.7	-4.8±0.3	0.4±0.2	-0.05±0.01	-1.10±0.02	1.022±0.007	1.019±0.007	0.006±0.004	0.086±0.006
74.8	-4.8±0.3	0.3±0.2	-0.03±0.01	-1.10±0.02	1.032±0.007	1.028±0.007	0.005±0.004	0.086±0.006
79.9	-4.6±0.3	0.2±0.2	-0.01±0.01	-1.10±0.02	1.042±0.007	1.039±0.007	0.004±0.004	0.084±0.006
84.9	-4.7±0.3	0.1±0.2	0.00±0.01	-1.09±0.02	1.044±0.007	1.041±0.007	0.003±0.004	0.085±0.006
90.0	-4.6±0.3	0.1±0.2	0.00±0.01	-1.09±0.02	1.048±0.007	1.044±0.007	0.002±0.004	0.084±0.006
100.2	-4.4±0.3	-0.1±0.2	0.01±0.01	-1.09±0.02	1.049±0.007	1.046±0.007	-0.001±0.004	0.081±0.006
110.3	-4.4±0.3	-0.1±0.2	0.01±0.01	-1.09±0.02	1.048±0.007	1.045±0.007	-0.002±0.004	0.080±0.006
120.5	-4.3±0.3	-0.2±0.2	0.01±0.01	-1.09±0.02	1.049±0.007	1.046±0.007	-0.003±0.004	0.078±0.006
130.7	-4.2±0.3	-0.3±0.2	0.01±0.01	-1.09±0.02	1.048±0.007	1.045±0.007	-0.006±0.004	0.077±0.006
140.8	-4.1±0.3	-0.3±0.2	0.01±0.01	-1.09±0.02	1.049±0.007	1.046±0.007	-0.005±0.004	0.076±0.006

Table B.202 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-38 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.8±0.3	1.3±0.8	-0.78±0.01	-1.10±0.02	0.563±0.008	0.563±0.008	0.013±0.008	0.008±0.003
4.7	-1.2±0.3	0.5±0.7	-0.75±0.01	-1.12±0.02	0.606±0.008	0.606±0.008	0.005±0.007	0.012±0.003
5.7	-1.6±0.3	0.4±0.6	-0.71±0.01	-1.11±0.02	0.635±0.007	0.634±0.007	0.004±0.007	0.017±0.004
6.7	-2.0±0.3	0.3±0.6	-0.68±0.01	-1.13±0.02	0.670±0.007	0.669±0.007	0.003±0.007	0.023±0.004
7.7	-2.2±0.3	0.3±0.5	-0.64±0.01	-1.11±0.02	0.686±0.007	0.686±0.007	0.004±0.006	0.026±0.004
8.7	-2.4±0.3	0.3±0.5	-0.60±0.01	-1.10±0.02	0.712±0.007	0.711±0.007	0.004±0.006	0.030±0.004
9.8	-2.6±0.3	0.4±0.5	-0.58±0.01	-1.11±0.02	0.726±0.007	0.725±0.007	0.005±0.006	0.033±0.004
10.8	-2.8±0.3	0.4±0.5	-0.57±0.01	-1.13±0.02	0.747±0.007	0.746±0.007	0.005±0.006	0.036±0.004
11.8	-3.0±0.3	0.5±0.4	-0.54±0.01	-1.10±0.02	0.755±0.007	0.753±0.007	0.006±0.006	0.040±0.004
12.8	-3.2±0.3	0.5±0.4	-0.51±0.01	-1.10±0.02	0.767±0.007	0.766±0.007	0.006±0.006	0.043±0.004
13.8	-3.4±0.3	0.5±0.4	-0.50±0.01	-1.11±0.02	0.778±0.007	0.776±0.007	0.006±0.006	0.046±0.004
16.4	-3.8±0.3	0.5±0.4	-0.47±0.01	-1.11±0.02	0.803±0.007	0.801±0.007	0.006±0.006	0.053±0.004
18.9	-4.1±0.3	0.5±0.4	-0.44±0.01	-1.12±0.02	0.820±0.007	0.818±0.007	0.007±0.005	0.058±0.005
21.4	-4.3±0.3	0.5±0.4	-0.42±0.01	-1.12±0.02	0.834±0.007	0.831±0.007	0.008±0.005	0.063±0.005
24.0	-4.5±0.3	0.5±0.4	-0.39±0.01	-1.09±0.02	0.841±0.007	0.838±0.007	0.007±0.005	0.066±0.005
26.5	-4.7±0.3	0.5±0.3	-0.36±0.01	-1.10±0.02	0.858±0.007	0.855±0.007	0.007±0.005	0.070±0.005
29.1	-4.8±0.3	0.5±0.3	-0.35±0.01	-1.11±0.02	0.873±0.007	0.870±0.007	0.007±0.005	0.073±0.005
31.6	-5.0±0.3	0.4±0.3	-0.33±0.01	-1.10±0.02	0.878±0.007	0.874±0.007	0.007±0.005	0.076±0.005
34.1	-5.0±0.3	0.4±0.3	-0.30±0.01	-1.10±0.02	0.893±0.007	0.889±0.007	0.007±0.005	0.078±0.005
36.7	-5.0±0.3	0.4±0.3	-0.29±0.01	-1.11±0.02	0.904±0.007	0.900±0.006	0.007±0.005	0.079±0.005
39.2	-5.1±0.3	0.4±0.3	-0.26±0.01	-1.09±0.02	0.911±0.007	0.907±0.006	0.007±0.005	0.081±0.005
44.3	-5.1±0.3	0.4±0.3	-0.24±0.01	-1.12±0.02	0.937±0.006	0.933±0.006	0.006±0.005	0.084±0.005
49.4	-5.1±0.3	0.4±0.3	-0.19±0.01	-1.10±0.02	0.956±0.006	0.952±0.006	0.006±0.005	0.086±0.005
54.5	-5.1±0.3	0.4±0.3	-0.15±0.01	-1.10±0.02	0.974±0.007	0.970±0.006	0.006±0.005	0.087±0.005
59.5	-5.1±0.3	0.3±0.3	-0.12±0.01	-1.10±0.02	0.990±0.007	0.986±0.007	0.006±0.004	0.088±0.005
64.6	-5.1±0.3	0.3±0.3	-0.08±0.01	-1.08±0.02	1.000±0.007	0.996±0.007	0.006±0.004	0.088±0.006
69.7	-5.0±0.3	0.2±0.2	-0.05±0.01	-1.08±0.02	1.015±0.007	1.011±0.007	0.003±0.004	0.089±0.006
74.8	-5.0±0.3	0.2±0.2	-0.03±0.01	-1.08±0.02	1.024±0.007	1.020±0.007	0.003±0.004	0.089±0.006
79.9	-4.9±0.3	0.1±0.2	-0.01±0.01	-1.07±0.02	1.029±0.007	1.026±0.007	0.002±0.004	0.088±0.006
84.9	-4.9±0.3	0.0±0.2	0.00±0.01	-1.08±0.02	1.036±0.007	1.032±0.007	0.000±0.004	0.088±0.006
90.0	-4.8±0.3	-0.1±0.2	0.00±0.01	-1.07±0.02	1.038±0.007	1.034±0.007	-0.001±0.004	0.086±0.006
100.2	-4.7±0.3	-0.1±0.2	0.01±0.01	-1.07±0.02	1.038±0.007	1.035±0.007	-0.002±0.004	0.085±0.006
110.3	-4.5±0.3	-0.1±0.2	0.01±0.01	-1.07±0.02	1.039±0.007	1.036±0.007	-0.003±0.004	0.081±0.006
120.5	-4.4±0.3	-0.3±0.2	0.01±0.01	-1.07±0.02	1.039±0.007	1.036±0.007	-0.006±0.004	0.080±0.006
130.7	-4.3±0.3	-0.3±0.2	0.01±0.01	-1.07±0.02	1.040±0.007	1.037±0.007	-0.006±0.004	0.078±0.006
140.8	-4.2±0.3	-0.3±0.2	0.01±0.01	-1.07±0.02	1.039±0.007	1.037±0.007	-0.006±0.004	0.077±0.006

Table B.203 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-32 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.1±0.3	1.2±0.7	-0.76±0.01	-1.11±0.02	0.589±0.008	0.589±0.008	0.012±0.008	0.001±0.003
4.7	-0.7±0.3	0.5±0.6	-0.72±0.01	-1.12±0.02	0.634±0.007	0.634±0.007	0.005±0.007	0.008±0.004
5.7	-1.3±0.3	0.3±0.6	-0.68±0.01	-1.12±0.02	0.662±0.007	0.662±0.007	0.004±0.007	0.015±0.004
6.7	-1.7±0.3	0.3±0.5	-0.64±0.01	-1.12±0.02	0.690±0.007	0.690±0.007	0.004±0.006	0.021±0.004
7.7	-2.1±0.3	0.3±0.5	-0.60±0.01	-1.11±0.02	0.713±0.007	0.713±0.007	0.004±0.006	0.026±0.004
8.7	-2.4±0.3	0.3±0.5	-0.58±0.01	-1.13±0.02	0.742±0.007	0.741±0.007	0.004±0.006	0.031±0.004
9.8	-2.8±0.3	0.3±0.4	-0.55±0.01	-1.11±0.02	0.754±0.007	0.753±0.007	0.004±0.006	0.036±0.004
10.8	-2.9±0.3	0.3±0.4	-0.55±0.01	-1.14±0.02	0.768±0.007	0.767±0.007	0.005±0.006	0.039±0.004
11.8	-3.1±0.3	0.3±0.4	-0.52±0.01	-1.13±0.02	0.780±0.007	0.779±0.007	0.005±0.006	0.042±0.004
12.8	-3.4±0.3	0.3±0.4	-0.49±0.01	-1.11±0.02	0.790±0.007	0.789±0.007	0.005±0.006	0.047±0.004
13.8	-3.6±0.3	0.3±0.4	-0.49±0.01	-1.13±0.02	0.800±0.007	0.798±0.007	0.005±0.006	0.051±0.004
16.4	-4.0±0.3	0.4±0.4	-0.45±0.01	-1.11±0.02	0.811±0.007	0.809±0.007	0.005±0.005	0.056±0.004
18.9	-4.3±0.3	0.4±0.4	-0.43±0.01	-1.13±0.02	0.833±0.007	0.831±0.007	0.005±0.005	0.062±0.005
21.4	-4.6±0.3	0.3±0.4	-0.40±0.01	-1.10±0.02	0.841±0.007	0.839±0.007	0.005±0.005	0.067±0.005
24.0	-4.7±0.3	0.3±0.3	-0.38±0.01	-1.11±0.02	0.854±0.007	0.851±0.007	0.005±0.005	0.071±0.005
26.5	-4.9±0.3	0.3±0.3	-0.36±0.01	-1.12±0.02	0.871±0.007	0.868±0.007	0.005±0.005	0.074±0.005
29.1	-5.0±0.3	0.3±0.3	-0.34±0.01	-1.11±0.02	0.880±0.007	0.877±0.007	0.005±0.005	0.077±0.005
31.6	-5.1±0.3	0.3±0.3	-0.32±0.01	-1.11±0.02	0.885±0.007	0.882±0.007	0.004±0.005	0.079±0.005
34.1	-5.2±0.3	0.3±0.3	-0.30±0.01	-1.12±0.02	0.904±0.007	0.900±0.006	0.005±0.005	0.082±0.005
36.7	-5.3±0.3	0.3±0.3	-0.27±0.01	-1.11±0.02	0.913±0.007	0.909±0.006	0.005±0.005	0.084±0.005
39.2	-5.3±0.3	0.2±0.3	-0.26±0.01	-1.10±0.02	0.920±0.007	0.916±0.006	0.003±0.005	0.085±0.005
44.3	-5.3±0.3	0.1±0.3	-0.22±0.01	-1.10±0.02	0.937±0.006	0.933±0.006	0.002±0.005	0.086±0.005
49.4	-5.4±0.3	0.1±0.3	-0.18±0.01	-1.09±0.02	0.958±0.007	0.953±0.006	0.002±0.005	0.089±0.005
54.5	-5.3±0.3	0.1±0.3	-0.16±0.01	-1.11±0.02	0.978±0.007	0.974±0.007	0.002±0.005	0.090±0.005
59.5	-5.3±0.3	0.1±0.3	-0.11±0.01	-1.10±0.02	0.992±0.007	0.988±0.007	0.002±0.004	0.091±0.005
64.6	-5.3±0.3	-0.1±0.3	-0.08±0.01	-1.08±0.02	1.000±0.007	0.996±0.007	-0.001±0.004	0.092±0.006
69.7	-5.2±0.3	0.1±0.2	-0.05±0.01	-1.09±0.02	1.017±0.007	1.013±0.007	0.001±0.004	0.092±0.006
74.8	-5.1±0.3	-0.1±0.2	-0.03±0.01	-1.07±0.02	1.024±0.007	1.020±0.007	-0.001±0.004	0.091±0.006
79.9	-5.1±0.3	-0.1±0.2	-0.01±0.01	-1.08±0.02	1.032±0.007	1.028±0.007	-0.002±0.004	0.091±0.006
84.9	-5.0±0.3	-0.1±0.2	0.00±0.01	-1.08±0.02	1.037±0.007	1.033±0.007	-0.002±0.004	0.090±0.006
90.0	-4.9±0.3	-0.1±0.2	0.00±0.01	-1.08±0.02	1.039±0.007	1.036±0.007	-0.002±0.004	0.089±0.006
100.2	-4.7±0.3	-0.2±0.2	0.01±0.01	-1.08±0.02	1.040±0.007	1.037±0.007	-0.003±0.004	0.085±0.006
110.3	-4.6±0.3	-0.3±0.2	0.01±0.01	-1.08±0.02	1.041±0.007	1.038±0.007	-0.005±0.004	0.084±0.006
120.5	-4.5±0.3	-0.3±0.2	0.01±0.01	-1.08±0.02	1.041±0.007	1.038±0.007	-0.006±0.004	0.082±0.006
130.7	-4.5±0.3	-0.3±0.2	0.01±0.01	-1.08±0.02	1.041±0.007	1.038±0.007	-0.006±0.004	0.082±0.006
140.8	-4.4±0.3	-0.5±0.2	0.01±0.01	-1.08±0.02	1.042±0.007	1.039±0.007	-0.008±0.004	0.080±0.006

Table B.204 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-25 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.2±0.3	0.7±0.7	-0.70±0.01	-1.09±0.02	0.619±0.008	0.619±0.008	0.008±0.007	0.002±0.003
4.7	-0.9±0.3	0.3±0.6	-0.65±0.01	-1.10±0.02	0.664±0.007	0.664±0.007	0.004±0.007	0.010±0.004
5.7	-1.6±0.3	-0.2±0.5	-0.62±0.01	-1.10±0.02	0.694±0.007	0.694±0.007	-0.003±0.006	0.020±0.004
6.7	-2.1±0.3	-0.1±0.5	-0.57±0.01	-1.09±0.02	0.725±0.007	0.725±0.007	-0.002±0.006	0.026±0.004
7.7	-2.5±0.3	-0.4±0.5	-0.54±0.01	-1.09±0.02	0.742±0.007	0.742±0.007	-0.005±0.006	0.032±0.004
8.7	-2.8±0.3	-0.4±0.4	-0.51±0.01	-1.09±0.02	0.759±0.007	0.758±0.007	-0.006±0.006	0.037±0.004
9.8	-3.2±0.3	-0.4±0.4	-0.50±0.01	-1.09±0.02	0.770±0.007	0.769±0.007	-0.005±0.006	0.043±0.004
10.8	-3.4±0.3	-0.4±0.4	-0.48±0.01	-1.10±0.02	0.787±0.007	0.785±0.007	-0.006±0.006	0.046±0.004
11.8	-3.6±0.3	-0.4±0.4	-0.46±0.01	-1.09±0.02	0.794±0.007	0.793±0.007	-0.006±0.006	0.049±0.004
12.8	-3.8±0.3	-0.4±0.4	-0.45±0.01	-1.09±0.02	0.802±0.007	0.800±0.007	-0.006±0.005	0.053±0.004
13.8	-3.9±0.3	-0.4±0.4	-0.44±0.01	-1.09±0.02	0.806±0.007	0.805±0.007	-0.005±0.005	0.055±0.004
16.4	-4.3±0.3	-0.4±0.4	-0.41±0.01	-1.09±0.02	0.823±0.007	0.820±0.007	-0.005±0.005	0.062±0.005
18.9	-4.6±0.3	-0.3±0.4	-0.38±0.01	-1.09±0.02	0.840±0.007	0.837±0.007	-0.005±0.005	0.068±0.005
21.4	-4.8±0.3	-0.4±0.4	-0.37±0.01	-1.08±0.02	0.842±0.007	0.839±0.007	-0.005±0.005	0.070±0.005
24.0	-5.0±0.3	-0.3±0.3	-0.35±0.01	-1.09±0.02	0.861±0.007	0.858±0.007	-0.005±0.005	0.075±0.005
26.5	-5.2±0.3	-0.3±0.3	-0.32±0.01	-1.08±0.02	0.870±0.007	0.866±0.006	-0.005±0.005	0.078±0.005
29.1	-5.2±0.3	-0.3±0.3	-0.31±0.01	-1.08±0.02	0.879±0.006	0.875±0.006	-0.004±0.005	0.080±0.005
31.6	-5.3±0.3	-0.4±0.3	-0.29±0.01	-1.08±0.02	0.888±0.006	0.884±0.006	-0.006±0.005	0.082±0.005
34.1	-5.3±0.3	-0.3±0.3	-0.27±0.01	-1.08±0.02	0.900±0.006	0.896±0.006	-0.005±0.005	0.084±0.005
36.7	-5.4±0.3	-0.3±0.3	-0.25±0.01	-1.07±0.02	0.908±0.006	0.904±0.006	-0.005±0.005	0.085±0.005
39.2	-5.4±0.3	-0.4±0.3	-0.22±0.01	-1.07±0.02	0.921±0.006	0.917±0.006	-0.006±0.005	0.087±0.005
44.3	-5.5±0.3	-0.4±0.3	-0.19±0.01	-1.07±0.02	0.935±0.006	0.930±0.006	-0.006±0.005	0.089±0.005
49.4	-5.4±0.3	-0.4±0.3	-0.16±0.01	-1.06±0.02	0.949±0.006	0.945±0.006	-0.007±0.005	0.090±0.005
54.5	-5.5±0.3	-0.4±0.3	-0.14±0.01	-1.07±0.02	0.965±0.006	0.960±0.006	-0.007±0.005	0.092±0.005
59.5	-5.5±0.3	-0.4±0.3	-0.09±0.01	-1.04±0.02	0.976±0.006	0.971±0.006	-0.007±0.005	0.093±0.005
64.6	-5.4±0.3	-0.4±0.3	-0.07±0.01	-1.05±0.02	0.993±0.006	0.988±0.006	-0.007±0.004	0.094±0.005
69.7	-5.4±0.3	-0.4±0.3	-0.04±0.01	-1.05±0.02	1.004±0.007	0.999±0.006	-0.007±0.004	0.094±0.006
74.8	-5.3±0.3	-0.4±0.2	-0.03±0.01	-1.05±0.02	1.010±0.007	1.006±0.007	-0.006±0.004	0.093±0.006
79.9	-5.2±0.3	-0.4±0.2	-0.01±0.01	-1.05±0.02	1.017±0.007	1.013±0.007	-0.006±0.004	0.091±0.006
84.9	-5.1±0.3	-0.4±0.2	0.00±0.01	-1.04±0.02	1.021±0.007	1.017±0.007	-0.006±0.004	0.091±0.006
90.0	-5.0±0.3	-0.3±0.2	0.00±0.01	-1.04±0.02	1.023±0.007	1.019±0.007	-0.006±0.004	0.089±0.006
100.2	-4.9±0.3	-0.4±0.2	0.01±0.01	-1.04±0.02	1.024±0.007	1.020±0.007	-0.006±0.004	0.087±0.006
110.3	-4.8±0.3	-0.5±0.2	0.01±0.01	-1.04±0.02	1.025±0.007	1.021±0.007	-0.008±0.004	0.086±0.006
120.5	-4.7±0.3	-0.5±0.2	0.01±0.01	-1.04±0.02	1.025±0.007	1.021±0.007	-0.009±0.004	0.084±0.006
130.7	-4.6±0.3	-0.6±0.2	0.01±0.01	-1.04±0.02	1.025±0.007	1.021±0.007	-0.010±0.004	0.083±0.006
140.8	-4.6±0.3	-0.7±0.2	0.01±0.01	-1.04±0.02	1.025±0.007	1.022±0.007	-0.013±0.004	0.082±0.006

Table B.205 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-19 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.1±0.3	0.3±0.6	-0.68±0.01	-1.08±0.02	0.639±0.007	0.639±0.007	0.003±0.007	0.024±0.004
4.7	-2.9±0.3	-0.7±0.5	-0.62±0.01	-1.09±0.02	0.680±0.007	0.679±0.007	-0.008±0.006	0.034±0.004
5.7	-3.5±0.3	-0.9±0.5	-0.57±0.01	-1.09±0.02	0.719±0.007	0.717±0.007	-0.012±0.006	0.044±0.004
6.7	-3.7±0.3	-1.0±0.5	-0.54±0.01	-1.10±0.02	0.747±0.007	0.745±0.007	-0.013±0.006	0.048±0.004
7.7	-3.9±0.3	-1.3±0.4	-0.51±0.01	-1.10±0.02	0.766±0.007	0.764±0.007	-0.017±0.006	0.052±0.004
8.7	-4.2±0.3	-1.3±0.4	-0.50±0.01	-1.10±0.02	0.773±0.007	0.771±0.007	-0.018±0.006	0.057±0.004
9.8	-4.3±0.3	-1.3±0.4	-0.46±0.01	-1.08±0.02	0.790±0.007	0.788±0.007	-0.017±0.006	0.059±0.004
10.8	-4.5±0.3	-1.3±0.4	-0.44±0.01	-1.08±0.02	0.800±0.007	0.797±0.007	-0.018±0.005	0.062±0.004
11.8	-4.6±0.3	-1.4±0.4	-0.43±0.01	-1.08±0.02	0.812±0.007	0.809±0.007	-0.020±0.005	0.065±0.004
12.8	-4.6±0.3	-1.4±0.4	-0.42±0.01	-1.09±0.02	0.820±0.007	0.817±0.007	-0.020±0.005	0.066±0.005
13.8	-4.7±0.3	-1.5±0.4	-0.42±0.01	-1.09±0.02	0.821±0.007	0.818±0.007	-0.021±0.005	0.068±0.005
16.4	-5.0±0.3	-1.4±0.4	-0.38±0.01	-1.09±0.02	0.840±0.007	0.836±0.007	-0.021±0.005	0.073±0.005
18.9	-5.1±0.3	-1.4±0.3	-0.36±0.01	-1.08±0.02	0.852±0.007	0.849±0.007	-0.020±0.005	0.076±0.005
21.4	-5.3±0.3	-1.3±0.3	-0.34±0.01	-1.09±0.02	0.863±0.007	0.859±0.007	-0.020±0.005	0.079±0.005
24.0	-5.4±0.3	-1.3±0.3	-0.32±0.01	-1.07±0.02	0.869±0.007	0.864±0.007	-0.020±0.005	0.082±0.005
26.5	-5.6±0.3	-1.3±0.3	-0.29±0.01	-1.07±0.02	0.880±0.006	0.876±0.006	-0.020±0.005	0.085±0.005
29.1	-5.6±0.3	-1.2±0.3	-0.28±0.01	-1.08±0.02	0.890±0.006	0.885±0.006	-0.019±0.005	0.086±0.005
31.6	-5.6±0.3	-1.2±0.3	-0.26±0.01	-1.07±0.02	0.901±0.006	0.897±0.006	-0.019±0.005	0.087±0.005
34.1	-5.7±0.3	-1.2±0.3	-0.25±0.01	-1.07±0.02	0.907±0.006	0.902±0.006	-0.018±0.005	0.090±0.005
36.7	-5.6±0.3	-1.1±0.3	-0.23±0.01	-1.06±0.02	0.911±0.006	0.907±0.006	-0.018±0.005	0.090±0.005
39.2	-5.7±0.3	-1.1±0.3	-0.21±0.01	-1.06±0.02	0.923±0.006	0.919±0.006	-0.018±0.005	0.091±0.005
44.3	-5.8±0.3	-1.1±0.3	-0.18±0.01	-1.07±0.02	0.939±0.006	0.934±0.006	-0.017±0.005	0.094±0.005
49.4	-5.7±0.3	-1.0±0.3	-0.15±0.01	-1.05±0.02	0.950±0.006	0.945±0.006	-0.016±0.005	0.095±0.005
54.5	-5.7±0.3	-1.0±0.3	-0.12±0.01	-1.04±0.02	0.960±0.006	0.955±0.006	-0.016±0.005	0.096±0.005
59.5	-5.7±0.3	-0.9±0.3	-0.09±0.01	-1.05±0.02	0.979±0.006	0.974±0.006	-0.016±0.004	0.098±0.005
64.6	-5.6±0.3	-0.8±0.3	-0.06±0.01	-1.04±0.02	0.989±0.006	0.985±0.006	-0.014±0.004	0.097±0.005
69.7	-5.6±0.3	-0.7±0.3	-0.03±0.01	-1.03±0.02	0.998±0.007	0.993±0.006	-0.012±0.004	0.098±0.006
74.8	-5.5±0.3	-0.6±0.2	-0.02±0.01	-1.03±0.02	1.007±0.007	1.002±0.007	-0.011±0.004	0.097±0.006
79.9	-5.4±0.3	-0.6±0.2	-0.01±0.01	-1.04±0.02	1.012±0.007	1.008±0.007	-0.011±0.004	0.096±0.006
84.9	-5.4±0.3	-0.6±0.2	0.00±0.01	-1.03±0.02	1.013±0.007	1.009±0.007	-0.010±0.004	0.095±0.006
90.0	-5.3±0.3	-0.4±0.2	0.00±0.01	-1.03±0.02	1.016±0.007	1.012±0.007	-0.007±0.004	0.093±0.006
100.2	-5.2±0.3	-0.4±0.2	0.01±0.01	-1.03±0.02	1.018±0.007	1.014±0.007	-0.006±0.004	0.092±0.006
110.3	-5.2±0.3	-0.4±0.2	0.01±0.01	-1.03±0.02	1.018±0.007	1.014±0.007	-0.006±0.004	0.092±0.006
120.5	-5.1±0.3	-0.5±0.2	0.01±0.01	-1.03±0.02	1.019±0.007	1.015±0.007	-0.008±0.004	0.091±0.006
130.7	-5.0±0.3	-0.6±0.2	0.01±0.01	-1.03±0.02	1.020±0.007	1.016±0.007	-0.010±0.004	0.089±0.006
140.8	-5.0±0.3	-0.6±0.2	0.01±0.01	-1.04±0.02	1.020±0.007	1.017±0.007	-0.011±0.004	0.089±0.006

Table B.206 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #1 at (x,z)=(302 mm,-13 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-5.2±0.3	-0.5±0.8	-0.75±0.01	-1.06±0.02	0.559±0.008	0.556±0.008	-0.004±0.008	0.051±0.003
4.7	-5.7±0.3	-1.5±0.7	-0.73±0.01	-1.07±0.02	0.588±0.008	0.585±0.008	-0.015±0.007	0.058±0.003
5.7	-6.0±0.3	-1.9±0.7	-0.68±0.01	-1.04±0.02	0.603±0.008	0.599±0.008	-0.019±0.007	0.063±0.003
6.7	-6.0±0.3	-2.3±0.7	-0.67±0.01	-1.06±0.02	0.622±0.007	0.619±0.007	-0.025±0.007	0.065±0.004
7.7	-5.8±0.3	-2.2±0.6	-0.65±0.01	-1.05±0.02	0.632±0.007	0.628±0.007	-0.024±0.007	0.064±0.004
8.7	-5.9±0.3	-2.5±0.6	-0.63±0.01	-1.05±0.02	0.645±0.007	0.640±0.007	-0.028±0.007	0.066±0.004
9.8	-6.0±0.3	-2.6±0.6	-0.62±0.01	-1.05±0.02	0.657±0.007	0.653±0.007	-0.030±0.007	0.068±0.004
10.8	-6.0±0.3	-2.4±0.6	-0.61±0.01	-1.06±0.02	0.672±0.007	0.668±0.007	-0.028±0.007	0.071±0.004
11.8	-6.1±0.3	-2.6±0.5	-0.59±0.01	-1.06±0.02	0.688±0.007	0.683±0.007	-0.031±0.006	0.073±0.004
12.8	-6.1±0.3	-2.6±0.5	-0.57±0.01	-1.07±0.02	0.706±0.007	0.701±0.007	-0.032±0.006	0.075±0.004
13.8	-6.1±0.3	-2.6±0.5	-0.55±0.01	-1.06±0.02	0.711±0.007	0.706±0.007	-0.033±0.006	0.076±0.004
16.4	-6.2±0.3	-2.8±0.5	-0.51±0.01	-1.06±0.02	0.741±0.007	0.736±0.007	-0.036±0.006	0.080±0.004
18.9	-6.4±0.3	-2.8±0.4	-0.46±0.01	-1.04±0.02	0.757±0.007	0.752±0.007	-0.037±0.006	0.084±0.004
21.4	-6.2±0.3	-3.0±0.4	-0.43±0.01	-1.03±0.02	0.773±0.007	0.768±0.007	-0.040±0.006	0.084±0.004
24.0	-6.2±0.3	-2.9±0.4	-0.40±0.01	-1.04±0.02	0.803±0.007	0.797±0.007	-0.040±0.005	0.087±0.004
26.5	-6.3±0.3	-2.9±0.4	-0.37±0.01	-1.03±0.02	0.814±0.007	0.808±0.007	-0.041±0.005	0.089±0.005
29.1	-6.2±0.3	-2.9±0.4	-0.34±0.01	-1.03±0.02	0.829±0.007	0.823±0.007	-0.042±0.005	0.090±0.005
31.6	-6.2±0.3	-2.7±0.4	-0.31±0.01	-1.03±0.02	0.848±0.007	0.842±0.007	-0.040±0.005	0.092±0.005
34.1	-6.3±0.3	-2.7±0.3	-0.29±0.01	-1.03±0.02	0.858±0.007	0.852±0.007	-0.040±0.005	0.093±0.005
36.7	-6.2±0.3	-2.6±0.3	-0.28±0.01	-1.04±0.02	0.870±0.007	0.864±0.007	-0.039±0.005	0.094±0.005
39.2	-6.2±0.3	-2.5±0.3	-0.25±0.01	-1.01±0.02	0.870±0.007	0.864±0.007	-0.037±0.005	0.094±0.005
44.3	-6.2±0.3	-2.3±0.3	-0.22±0.01	-1.01±0.02	0.885±0.006	0.879±0.007	-0.035±0.005	0.095±0.005
49.4	-6.2±0.3	-2.0±0.3	-0.18±0.01	-1.01±0.02	0.909±0.006	0.903±0.006	-0.032±0.005	0.098±0.005
54.5	-6.2±0.3	-1.9±0.3	-0.15±0.01	-0.98±0.02	0.915±0.006	0.909±0.006	-0.030±0.005	0.098±0.005
59.5	-6.2±0.3	-1.7±0.3	-0.13±0.01	-0.99±0.02	0.926±0.006	0.921±0.006	-0.027±0.005	0.100±0.005
64.6	-6.1±0.3	-1.4±0.3	-0.11±0.01	-0.98±0.02	0.933±0.006	0.927±0.006	-0.023±0.005	0.100±0.005
69.7	-6.2±0.3	-1.3±0.3	-0.10±0.01	-0.98±0.02	0.939±0.006	0.933±0.006	-0.022±0.005	0.101±0.005
74.8	-6.2±0.3	-1.1±0.3	-0.10±0.01	-0.98±0.02	0.941±0.006	0.936±0.006	-0.017±0.005	0.101±0.005
79.9	-6.1±0.3	-1.0±0.3	-0.11±0.01	-0.99±0.02	0.939±0.006	0.933±0.006	-0.017±0.005	0.100±0.005
84.9	-6.0±0.3	-0.8±0.3	-0.12±0.01	-0.98±0.02	0.927±0.006	0.922±0.006	-0.013±0.005	0.097±0.005
90.0	-6.0±0.3	-0.7±0.3	-0.13±0.01	-0.98±0.02	0.924±0.006	0.919±0.006	-0.012±0.005	0.097±0.005
100.2	-6.1±0.3	-0.6±0.3	-0.13±0.01	-0.98±0.02	0.923±0.006	0.918±0.006	-0.009±0.005	0.098±0.005
110.3	-6.1±0.3	-0.5±0.3	-0.14±0.01	-0.99±0.02	0.919±0.006	0.914±0.006	-0.008±0.005	0.098±0.005
120.5	-6.1±0.3	-0.8±0.3	-0.16±0.01	-0.99±0.02	0.910±0.006	0.905±0.006	-0.013±0.005	0.097±0.005
130.7	-6.1±0.3	-0.9±0.3	-0.19±0.01	-0.99±0.02	0.892±0.006	0.887±0.006	-0.014±0.005	0.095±0.005
140.8	-6.1±0.3	-1.2±0.3	-0.22±0.01	-0.99±0.02	0.881±0.007	0.875±0.006	-0.019±0.005	0.093±0.005

Table B.207 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(130 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.7±0.3	2.3±0.5	-0.76±0.01	-1.29±0.02	0.731±0.007	0.730±0.007	0.030±0.006	0.008±0.004
4.7	-0.4±0.3	1.3±0.4	-0.71±0.01	-1.30±0.02	0.763±0.007	0.763±0.007	0.017±0.006	0.006±0.004
5.7	-0.2±0.3	0.9±0.4	-0.68±0.01	-1.29±0.02	0.783±0.007	0.783±0.007	0.012±0.006	0.002±0.004
6.7	-0.1±0.3	0.7±0.4	-0.66±0.01	-1.30±0.02	0.801±0.007	0.801±0.007	0.010±0.005	0.001±0.004
7.7	0.1±0.3	0.5±0.4	-0.64±0.01	-1.30±0.02	0.815±0.007	0.815±0.007	0.008±0.005	-0.001±0.004
8.7	0.1±0.3	0.5±0.4	-0.61±0.01	-1.30±0.02	0.830±0.007	0.830±0.007	0.007±0.005	-0.002±0.005
9.8	0.2±0.3	0.4±0.4	-0.60±0.01	-1.30±0.02	0.841±0.006	0.841±0.006	0.007±0.005	-0.002±0.005
10.8	0.2±0.3	0.5±0.3	-0.57±0.01	-1.29±0.02	0.849±0.006	0.849±0.006	0.007±0.005	-0.003±0.005
11.8	0.1±0.3	0.5±0.3	-0.56±0.01	-1.30±0.02	0.864±0.006	0.863±0.006	0.007±0.005	-0.001±0.005
12.8	0.2±0.3	0.4±0.3	-0.55±0.01	-1.32±0.02	0.881±0.006	0.881±0.006	0.007±0.005	-0.003±0.005
13.8	0.1±0.3	0.4±0.3	-0.51±0.01	-1.31±0.02	0.889±0.006	0.889±0.006	0.007±0.005	-0.002±0.005
16.4	0.2±0.3	0.4±0.3	-0.49±0.01	-1.30±0.02	0.902±0.006	0.902±0.006	0.007±0.005	-0.003±0.005
18.9	0.1±0.3	0.5±0.3	-0.44±0.01	-1.30±0.02	0.927±0.006	0.927±0.006	0.007±0.005	-0.002±0.005
21.4	0.1±0.3	0.5±0.3	-0.42±0.01	-1.31±0.02	0.942±0.006	0.942±0.006	0.007±0.005	-0.002±0.005
24.0	0.1±0.3	0.4±0.3	-0.40±0.01	-1.31±0.02	0.954±0.006	0.954±0.006	0.007±0.005	-0.001±0.005
26.5	0.1±0.3	0.5±0.3	-0.37±0.01	-1.31±0.02	0.969±0.006	0.969±0.006	0.008±0.004	-0.001±0.005
29.1	0.0±0.3	0.4±0.3	-0.35±0.01	-1.31±0.02	0.981±0.006	0.981±0.006	0.008±0.004	-0.001±0.005
31.6	0.0±0.3	0.4±0.3	-0.31±0.01	-1.30±0.02	0.993±0.006	0.993±0.006	0.008±0.004	-0.001±0.005
34.1	0.0±0.3	0.4±0.2	-0.30±0.01	-1.30±0.02	1.002±0.006	1.002±0.006	0.008±0.004	0.000±0.006
36.7	0.0±0.3	0.5±0.2	-0.27±0.01	-1.30±0.02	1.017±0.006	1.017±0.006	0.008±0.004	0.000±0.006
39.2	0.0±0.3	0.5±0.2	-0.25±0.01	-1.28±0.02	1.020±0.006	1.020±0.006	0.009±0.004	-0.001±0.006
44.3	0.0±0.3	0.4±0.2	-0.21±0.01	-1.31±0.02	1.049±0.006	1.049±0.006	0.008±0.004	0.000±0.006
49.4	0.0±0.3	0.5±0.2	-0.16±0.01	-1.29±0.02	1.065±0.007	1.065±0.007	0.010±0.004	0.000±0.006
54.5	0.0±0.3	0.5±0.2	-0.12±0.01	-1.29±0.02	1.082±0.007	1.082±0.007	0.010±0.004	0.000±0.006
59.5	0.0±0.3	0.5±0.2	-0.09±0.01	-1.30±0.02	1.099±0.007	1.099±0.007	0.010±0.004	0.000±0.006
64.6	0.0±0.3	0.6±0.2	-0.06±0.01	-1.29±0.02	1.111±0.007	1.111±0.007	0.012±0.004	-0.001±0.006
69.7	0.0±0.3	0.6±0.2	-0.03±0.01	-1.29±0.02	1.123±0.007	1.123±0.007	0.012±0.004	0.000±0.006
74.8	0.0±0.3	0.6±0.2	-0.01±0.01	-1.28±0.02	1.129±0.007	1.129±0.007	0.012±0.004	0.000±0.006
79.9	0.0±0.3	0.6±0.2	0.00±0.01	-1.29±0.02	1.136±0.007	1.136±0.007	0.012±0.004	0.000±0.006
84.9	0.1±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.138±0.007	1.138±0.007	0.012±0.004	-0.002±0.006
90.0	0.0±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.139±0.007	1.138±0.007	0.012±0.004	0.000±0.006
100.2	0.1±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.139±0.007	1.139±0.007	0.012±0.004	-0.002±0.006
110.3	0.1±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.139±0.007	1.139±0.007	0.012±0.004	-0.003±0.006
120.5	0.1±0.3	0.6±0.2	0.01±0.01	-1.28±0.02	1.138±0.007	1.138±0.007	0.011±0.004	-0.002±0.006
130.7	0.2±0.3	0.6±0.2	0.01±0.01	-1.28±0.02	1.138±0.007	1.138±0.007	0.011±0.004	-0.003±0.006
140.8	0.1±0.3	0.5±0.2	0.01±0.01	-1.28±0.02	1.138±0.007	1.138±0.007	0.010±0.004	-0.003±0.006

Table B.208 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(130 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.5±0.3	2.5±0.4	-0.74±0.01	-1.32±0.02	0.767±0.007	0.766±0.007	0.033±0.006	0.006±0.004
4.7	-0.1±0.3	1.3±0.4	-0.70±0.01	-1.32±0.02	0.791±0.007	0.791±0.007	0.017±0.006	0.001±0.004
5.7	0.1±0.3	0.8±0.4	-0.66±0.01	-1.32±0.02	0.813±0.007	0.812±0.007	0.012±0.005	-0.002±0.004
6.7	0.3±0.3	0.6±0.4	-0.63±0.01	-1.32±0.02	0.829±0.007	0.829±0.007	0.009±0.005	-0.004±0.005
7.7	0.4±0.3	0.5±0.4	-0.61±0.01	-1.32±0.02	0.842±0.006	0.842±0.006	0.007±0.005	-0.005±0.005
8.7	0.4±0.3	0.5±0.3	-0.59±0.01	-1.33±0.02	0.856±0.006	0.856±0.006	0.008±0.005	-0.005±0.005
9.8	0.4±0.3	0.5±0.3	-0.57±0.01	-1.32±0.02	0.866±0.006	0.866±0.006	0.007±0.005	-0.005±0.005
10.8	0.3±0.3	0.5±0.3	-0.55±0.01	-1.32±0.02	0.876±0.006	0.876±0.006	0.007±0.005	-0.004±0.005
11.8	0.3±0.3	0.5±0.3	-0.54±0.01	-1.33±0.02	0.888±0.006	0.888±0.006	0.007±0.005	-0.005±0.005
12.8	0.3±0.3	0.4±0.3	-0.52±0.01	-1.32±0.02	0.891±0.006	0.891±0.006	0.007±0.005	-0.005±0.005
13.8	0.3±0.3	0.4±0.3	-0.52±0.01	-1.32±0.02	0.897±0.006	0.897±0.006	0.007±0.005	-0.005±0.005
16.4	0.2±0.3	0.4±0.3	-0.49±0.01	-1.33±0.02	0.917±0.006	0.917±0.006	0.007±0.005	-0.003±0.005
18.9	0.2±0.3	0.5±0.3	-0.45±0.01	-1.32±0.02	0.933±0.006	0.933±0.006	0.008±0.005	-0.003±0.005
21.4	0.1±0.3	0.5±0.3	-0.42±0.01	-1.33±0.02	0.949±0.006	0.949±0.006	0.008±0.005	-0.001±0.005
24.0	0.0±0.3	0.5±0.3	-0.39±0.01	-1.32±0.02	0.962±0.006	0.962±0.006	0.008±0.005	-0.001±0.005
26.5	0.0±0.3	0.5±0.3	-0.36±0.01	-1.31±0.02	0.973±0.006	0.973±0.006	0.009±0.004	0.000±0.005
29.1	0.0±0.3	0.4±0.3	-0.34±0.01	-1.31±0.02	0.987±0.006	0.987±0.006	0.008±0.004	0.001±0.005
31.6	0.0±0.3	0.6±0.2	-0.31±0.01	-1.32±0.02	1.001±0.006	1.001±0.006	0.010±0.004	0.001±0.006
34.1	0.0±0.3	0.5±0.2	-0.29±0.01	-1.31±0.02	1.011±0.006	1.011±0.006	0.009±0.004	0.001±0.006
36.7	-0.1±0.3	0.5±0.2	-0.27±0.01	-1.32±0.02	1.025±0.006	1.025±0.006	0.008±0.004	0.001±0.006
39.2	-0.1±0.3	0.5±0.2	-0.25±0.01	-1.32±0.02	1.035±0.006	1.035±0.006	0.009±0.004	0.002±0.006
44.3	-0.1±0.3	0.5±0.2	-0.21±0.01	-1.31±0.02	1.051±0.006	1.051±0.006	0.009±0.004	0.002±0.006
49.4	-0.2±0.3	0.6±0.2	-0.15±0.01	-1.30±0.02	1.071±0.007	1.070±0.007	0.011±0.004	0.003±0.006
54.5	-0.2±0.3	0.6±0.2	-0.13±0.01	-1.31±0.02	1.089±0.007	1.088±0.007	0.012±0.004	0.003±0.006
59.5	-0.2±0.3	0.6±0.2	-0.09±0.01	-1.31±0.02	1.106±0.007	1.106±0.007	0.011±0.004	0.003±0.006
64.6	-0.1±0.3	0.6±0.2	-0.06±0.01	-1.30±0.02	1.117±0.007	1.117±0.007	0.012±0.004	0.002±0.006
69.7	-0.1±0.3	0.6±0.2	-0.04±0.01	-1.32±0.02	1.131±0.007	1.131±0.007	0.012±0.004	0.002±0.006
74.8	-0.1±0.3	0.6±0.2	-0.01±0.01	-1.30±0.02	1.137±0.007	1.137±0.007	0.012±0.004	0.001±0.006
79.9	-0.1±0.3	0.6±0.2	0.00±0.01	-1.30±0.02	1.141±0.007	1.141±0.007	0.012±0.004	0.002±0.006
84.9	-0.1±0.3	0.6±0.2	0.01±0.01	-1.30±0.02	1.144±0.007	1.144±0.007	0.012±0.004	0.002±0.006
90.0	-0.1±0.3	0.6±0.2	0.01±0.01	-1.30±0.02	1.146±0.007	1.146±0.007	0.013±0.004	0.002±0.006
100.2	-0.1±0.3	0.5±0.2	0.01±0.01	-1.30±0.02	1.147±0.007	1.146±0.007	0.011±0.004	0.002±0.006
110.3	-0.1±0.3	0.5±0.2	0.01±0.01	-1.30±0.02	1.146±0.007	1.146±0.007	0.010±0.004	0.001±0.006
120.5	0.0±0.3	0.4±0.2	0.01±0.01	-1.30±0.02	1.146±0.007	1.146±0.007	0.009±0.004	-0.001±0.006
130.7	0.1±0.3	0.4±0.2	0.01±0.01	-1.30±0.02	1.146±0.007	1.146±0.007	0.008±0.004	-0.002±0.006
140.8	0.0±0.3	0.4±0.2	0.01±0.01	-1.30±0.02	1.144±0.007	1.144±0.007	0.009±0.004	-0.001±0.006

Table B.209 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(130 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.9±0.3	2.5±0.4	-0.74±0.01	-1.35±0.02	0.778±0.007	0.778±0.007	0.034±0.006	0.012±0.004
4.7	-0.4±0.3	1.2±0.4	-0.70±0.01	-1.35±0.02	0.808±0.007	0.807±0.007	0.017±0.005	0.006±0.004
5.7	-0.1±0.3	0.8±0.4	-0.66±0.01	-1.35±0.02	0.833±0.007	0.833±0.007	0.012±0.005	0.002±0.005
6.7	0.0±0.3	0.8±0.4	-0.63±0.01	-1.34±0.02	0.844±0.006	0.844±0.006	0.012±0.005	0.000±0.005
7.7	0.1±0.3	0.6±0.3	-0.61±0.01	-1.34±0.02	0.857±0.006	0.857±0.006	0.009±0.005	-0.002±0.005
8.7	0.1±0.3	0.6±0.3	-0.59±0.01	-1.35±0.02	0.869±0.006	0.869±0.006	0.010±0.005	-0.002±0.005
9.8	0.1±0.3	0.5±0.3	-0.57±0.01	-1.34±0.02	0.881±0.006	0.881±0.006	0.008±0.005	-0.002±0.005
10.8	0.1±0.3	0.6±0.3	-0.55±0.01	-1.34±0.02	0.889±0.006	0.889±0.006	0.009±0.005	-0.002±0.005
11.8	0.1±0.3	0.5±0.3	-0.53±0.01	-1.33±0.02	0.894±0.006	0.894±0.006	0.008±0.005	-0.002±0.005
12.8	0.0±0.3	0.5±0.3	-0.53±0.01	-1.34±0.02	0.902±0.006	0.902±0.006	0.008±0.005	0.000±0.005
13.8	0.0±0.3	0.5±0.3	-0.50±0.01	-1.33±0.02	0.913±0.006	0.913±0.006	0.007±0.005	-0.001±0.005
16.4	0.0±0.3	0.5±0.3	-0.47±0.01	-1.34±0.02	0.932±0.006	0.932±0.006	0.009±0.005	0.001±0.005
18.9	-0.1±0.3	0.5±0.3	-0.44±0.01	-1.33±0.02	0.946±0.006	0.946±0.006	0.009±0.005	0.001±0.005
21.4	-0.1±0.3	0.6±0.3	-0.41±0.01	-1.33±0.02	0.959±0.006	0.959±0.006	0.009±0.005	0.002±0.005
24.0	-0.2±0.3	0.5±0.3	-0.38±0.01	-1.32±0.02	0.971±0.006	0.971±0.006	0.009±0.005	0.003±0.005
26.5	-0.2±0.3	0.5±0.3	-0.35±0.01	-1.32±0.02	0.984±0.006	0.984±0.006	0.009±0.004	0.003±0.005
29.1	-0.2±0.3	0.6±0.2	-0.33±0.01	-1.33±0.02	1.001±0.006	1.001±0.006	0.010±0.004	0.004±0.006
31.6	-0.2±0.3	0.6±0.2	-0.31±0.01	-1.33±0.02	1.011±0.006	1.011±0.006	0.010±0.004	0.004±0.006
34.1	-0.3±0.3	0.5±0.2	-0.29±0.01	-1.33±0.02	1.020±0.006	1.020±0.006	0.010±0.004	0.005±0.006
36.7	-0.3±0.3	0.6±0.2	-0.26±0.01	-1.32±0.02	1.031±0.006	1.031±0.006	0.011±0.004	0.005±0.006
39.2	-0.3±0.3	0.6±0.2	-0.24±0.01	-1.32±0.02	1.040±0.006	1.040±0.006	0.012±0.004	0.005±0.006
44.3	-0.3±0.3	0.6±0.2	-0.20±0.01	-1.32±0.02	1.060±0.007	1.060±0.007	0.012±0.004	0.006±0.006
49.4	-0.4±0.3	0.6±0.2	-0.16±0.01	-1.31±0.02	1.075±0.007	1.075±0.007	0.012±0.004	0.008±0.006
54.5	-0.4±0.3	0.6±0.2	-0.12±0.01	-1.32±0.02	1.095±0.007	1.095±0.007	0.012±0.004	0.007±0.006
59.5	-0.5±0.3	0.6±0.2	-0.08±0.01	-1.32±0.02	1.111±0.007	1.111±0.007	0.012±0.004	0.009±0.006
64.6	-0.4±0.3	0.6±0.2	-0.06±0.01	-1.32±0.02	1.123±0.007	1.123±0.007	0.012±0.004	0.009±0.006
69.7	-0.4±0.3	0.6±0.2	-0.03±0.01	-1.32±0.02	1.135±0.007	1.135±0.007	0.012±0.004	0.009±0.006
74.8	-0.4±0.3	0.6±0.2	-0.01±0.01	-1.32±0.02	1.143±0.007	1.143±0.007	0.013±0.004	0.009±0.006
79.9	-0.4±0.3	0.6±0.2	0.00±0.01	-1.32±0.02	1.147±0.007	1.147±0.007	0.013±0.004	0.008±0.006
84.9	-0.4±0.3	0.6±0.2	0.01±0.01	-1.31±0.02	1.149±0.007	1.149±0.007	0.013±0.004	0.008±0.006
90.0	-0.4±0.3	0.6±0.2	0.01±0.01	-1.31±0.02	1.151±0.007	1.151±0.007	0.012±0.004	0.008±0.006
100.2	-0.4±0.3	0.6±0.2	0.01±0.01	-1.32±0.02	1.152±0.007	1.152±0.007	0.012±0.004	0.007±0.006
110.3	-0.3±0.3	0.6±0.2	0.01±0.01	-1.31±0.02	1.152±0.007	1.151±0.007	0.012±0.004	0.007±0.006
120.5	-0.3±0.3	0.6±0.2	0.01±0.01	-1.31±0.02	1.151±0.007	1.151±0.007	0.011±0.004	0.005±0.006
130.7	-0.2±0.3	0.5±0.2	0.01±0.01	-1.31±0.02	1.149±0.007	1.149±0.007	0.009±0.004	0.004±0.006
140.8	-0.2±0.3	0.4±0.2	0.01±0.01	-1.31±0.02	1.149±0.007	1.149±0.007	0.008±0.004	0.004±0.006

Table B.210 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(130 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.0±0.3	2.0±0.4	-0.75±0.01	-1.38±0.02	0.794±0.007	0.793±0.007	0.028±0.006	0.014±0.004
4.7	-0.6±0.3	1.2±0.4	-0.70±0.01	-1.37±0.02	0.819±0.007	0.819±0.007	0.017±0.005	0.008±0.005
5.7	-0.2±0.3	1.1±0.4	-0.66±0.01	-1.37±0.02	0.842±0.006	0.842±0.006	0.016±0.005	0.003±0.005
6.7	-0.2±0.3	1.0±0.3	-0.64±0.01	-1.38±0.02	0.860±0.006	0.860±0.006	0.015±0.005	0.003±0.005
7.7	-0.2±0.3	1.0±0.3	-0.61±0.01	-1.37±0.02	0.869±0.006	0.869±0.006	0.016±0.005	0.003±0.005
8.7	-0.2±0.3	0.9±0.3	-0.60±0.01	-1.36±0.02	0.876±0.006	0.876±0.006	0.014±0.005	0.003±0.005
9.8	-0.3±0.3	0.9±0.3	-0.58±0.01	-1.37±0.02	0.891±0.006	0.891±0.006	0.015±0.005	0.005±0.005
10.8	-0.4±0.3	1.0±0.3	-0.55±0.01	-1.36±0.02	0.896±0.006	0.896±0.006	0.015±0.005	0.006±0.005
11.8	-0.5±0.3	1.0±0.3	-0.55±0.01	-1.37±0.02	0.904±0.006	0.904±0.006	0.015±0.005	0.008±0.005
12.8	-0.6±0.3	1.0±0.3	-0.53±0.01	-1.37±0.02	0.914±0.006	0.914±0.006	0.016±0.005	0.010±0.005
13.8	-0.6±0.3	0.9±0.3	-0.52±0.01	-1.37±0.02	0.922±0.006	0.922±0.006	0.015±0.005	0.010±0.005
16.4	-0.8±0.3	1.0±0.3	-0.49±0.01	-1.36±0.02	0.936±0.006	0.936±0.006	0.016±0.005	0.013±0.005
18.9	-0.9±0.3	0.9±0.3	-0.46±0.01	-1.37±0.02	0.953±0.006	0.953±0.006	0.016±0.005	0.015±0.005
21.4	-1.0±0.3	0.9±0.3	-0.43±0.01	-1.37±0.02	0.970±0.006	0.970±0.006	0.016±0.005	0.016±0.005
24.0	-1.0±0.3	0.9±0.3	-0.40±0.01	-1.37±0.02	0.984±0.006	0.984±0.006	0.016±0.004	0.018±0.005
26.5	-1.0±0.3	0.9±0.3	-0.38±0.01	-1.37±0.02	0.998±0.006	0.998±0.006	0.016±0.004	0.018±0.006
29.1	-1.1±0.3	0.9±0.2	-0.35±0.01	-1.36±0.02	1.009±0.006	1.009±0.006	0.016±0.004	0.019±0.006
31.6	-1.2±0.3	0.9±0.2	-0.33±0.01	-1.36±0.02	1.017±0.006	1.016±0.006	0.016±0.004	0.020±0.006
34.1	-1.2±0.3	0.9±0.2	-0.30±0.01	-1.36±0.02	1.031±0.006	1.031±0.006	0.016±0.004	0.021±0.006
36.7	-1.2±0.3	0.8±0.2	-0.27±0.01	-1.36±0.02	1.042±0.006	1.042±0.006	0.015±0.004	0.022±0.006
39.2	-1.2±0.3	0.9±0.2	-0.25±0.01	-1.36±0.02	1.052±0.007	1.052±0.007	0.016±0.004	0.022±0.006
44.3	-1.3±0.3	0.9±0.2	-0.21±0.01	-1.36±0.02	1.071±0.007	1.071±0.007	0.016±0.004	0.024±0.006
49.4	-1.3±0.3	0.8±0.2	-0.17±0.01	-1.36±0.02	1.090±0.007	1.089±0.007	0.016±0.004	0.025±0.006
54.5	-1.3±0.3	0.8±0.2	-0.14±0.01	-1.36±0.02	1.104±0.007	1.104±0.007	0.016±0.004	0.026±0.006
59.5	-1.3±0.3	0.8±0.2	-0.09±0.01	-1.35±0.02	1.119±0.007	1.118±0.007	0.016±0.004	0.026±0.006
64.6	-1.4±0.3	0.8±0.2	-0.06±0.01	-1.35±0.02	1.133±0.007	1.132±0.007	0.016±0.004	0.028±0.006
69.7	-1.4±0.3	0.8±0.2	-0.04±0.01	-1.36±0.02	1.147±0.007	1.146±0.007	0.016±0.004	0.028±0.006
74.8	-1.4±0.3	0.8±0.2	-0.01±0.01	-1.35±0.02	1.153±0.007	1.153±0.007	0.015±0.004	0.028±0.006
79.9	-1.3±0.3	0.8±0.2	-0.01±0.01	-1.35±0.02	1.162±0.007	1.161±0.007	0.015±0.004	0.027±0.006
84.9	-1.3±0.3	0.8±0.2	0.00±0.01	-1.35±0.02	1.164±0.007	1.164±0.007	0.016±0.004	0.026±0.006
90.0	-1.3±0.3	0.7±0.2	0.01±0.01	-1.35±0.02	1.166±0.007	1.166±0.007	0.015±0.004	0.027±0.006
100.2	-1.3±0.3	0.7±0.2	0.01±0.01	-1.35±0.02	1.167±0.007	1.166±0.007	0.014±0.004	0.026±0.006
110.3	-1.2±0.3	0.7±0.2	0.01±0.01	-1.35±0.02	1.167±0.007	1.167±0.007	0.014±0.004	0.025±0.006
120.5	-1.2±0.3	0.6±0.2	0.01±0.01	-1.35±0.02	1.167±0.007	1.166±0.007	0.012±0.004	0.025±0.006
130.7	-1.2±0.3	0.4±0.2	0.01±0.01	-1.35±0.02	1.165±0.007	1.165±0.007	0.009±0.004	0.023±0.006
140.8	-1.1±0.3	0.4±0.2	0.01±0.01	-1.34±0.02	1.164±0.007	1.164±0.007	0.009±0.004	0.023±0.006

Table B.211 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(130 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.7±0.3	2.6±0.4	-0.74±0.01	-1.42±0.02	0.824±0.007	0.823±0.007	0.038±0.005	0.010±0.005
4.7	-0.3±0.3	1.7±0.3	-0.69±0.01	-1.42±0.02	0.854±0.006	0.854±0.006	0.025±0.005	0.004±0.005
5.7	0.0±0.3	1.4±0.3	-0.66±0.01	-1.43±0.02	0.878±0.006	0.878±0.006	0.022±0.005	0.000±0.005
6.7	0.0±0.3	1.4±0.3	-0.62±0.01	-1.41±0.02	0.888±0.006	0.888±0.006	0.022±0.005	0.000±0.005
7.7	-0.1±0.3	1.4±0.3	-0.61±0.01	-1.42±0.02	0.897±0.006	0.897±0.006	0.022±0.005	0.002±0.005
8.7	-0.2±0.3	1.5±0.3	-0.60±0.01	-1.42±0.02	0.906±0.006	0.906±0.006	0.024±0.005	0.003±0.005
9.8	-0.5±0.3	1.4±0.3	-0.58±0.01	-1.41±0.02	0.912±0.006	0.912±0.006	0.022±0.005	0.008±0.005
10.8	-0.7±0.3	1.5±0.3	-0.57±0.01	-1.42±0.02	0.921±0.006	0.920±0.006	0.024±0.005	0.011±0.005
11.8	-0.9±0.3	1.4±0.3	-0.55±0.01	-1.41±0.02	0.928±0.006	0.927±0.006	0.023±0.005	0.014±0.005
12.8	-1.0±0.3	1.4±0.3	-0.54±0.01	-1.41±0.02	0.936±0.006	0.936±0.006	0.023±0.005	0.017±0.005
13.8	-1.2±0.3	1.4±0.3	-0.53±0.01	-1.42±0.02	0.942±0.006	0.942±0.006	0.023±0.005	0.020±0.005
16.4	-1.4±0.3	1.3±0.3	-0.48±0.01	-1.40±0.02	0.957±0.006	0.957±0.006	0.022±0.005	0.024±0.005
18.9	-1.6±0.3	1.3±0.3	-0.46±0.01	-1.41±0.02	0.975±0.006	0.975±0.006	0.023±0.005	0.026±0.005
21.4	-1.7±0.3	1.2±0.3	-0.43±0.01	-1.41±0.02	0.991±0.006	0.990±0.006	0.021±0.004	0.029±0.005
24.0	-1.8±0.3	1.2±0.2	-0.40±0.01	-1.41±0.02	1.005±0.006	1.004±0.006	0.022±0.004	0.031±0.006
26.5	-1.8±0.3	1.2±0.2	-0.37±0.01	-1.40±0.02	1.015±0.006	1.015±0.006	0.021±0.004	0.033±0.006
29.1	-2.0±0.3	1.2±0.2	-0.35±0.01	-1.40±0.02	1.028±0.006	1.027±0.006	0.021±0.004	0.035±0.006
31.6	-2.0±0.3	1.1±0.2	-0.32±0.01	-1.40±0.02	1.038±0.007	1.037±0.006	0.020±0.004	0.035±0.006
34.1	-2.0±0.3	1.1±0.2	-0.30±0.01	-1.40±0.02	1.046±0.007	1.045±0.007	0.021±0.004	0.036±0.006
36.7	-2.0±0.3	1.1±0.2	-0.28±0.01	-1.40±0.02	1.059±0.007	1.058±0.007	0.020±0.004	0.037±0.006
39.2	-2.0±0.3	1.1±0.2	-0.26±0.01	-1.40±0.02	1.068±0.007	1.068±0.007	0.020±0.004	0.038±0.006
44.3	-2.1±0.3	1.0±0.2	-0.21±0.01	-1.40±0.02	1.094±0.007	1.093±0.007	0.019±0.004	0.039±0.006
49.4	-2.1±0.3	1.0±0.2	-0.18±0.01	-1.41±0.02	1.110±0.007	1.109±0.007	0.019±0.004	0.040±0.006
54.5	-2.1±0.3	1.0±0.2	-0.14±0.01	-1.40±0.02	1.126±0.007	1.125±0.007	0.019±0.004	0.041±0.006
59.5	-2.1±0.3	0.9±0.2	-0.10±0.01	-1.40±0.02	1.140±0.007	1.139±0.007	0.017±0.004	0.042±0.006
64.6	-2.1±0.3	0.8±0.2	-0.07±0.01	-1.40±0.02	1.153±0.007	1.153±0.007	0.016±0.004	0.042±0.006
69.7	-2.1±0.3	0.8±0.2	-0.04±0.01	-1.40±0.02	1.165±0.007	1.164±0.007	0.016±0.004	0.042±0.006
74.8	-2.1±0.3	0.8±0.2	-0.02±0.01	-1.39±0.02	1.171±0.007	1.170±0.007	0.016±0.004	0.042±0.006
79.9	-2.1±0.3	0.7±0.2	-0.01±0.01	-1.39±0.02	1.179±0.007	1.178±0.007	0.015±0.004	0.042±0.007
84.9	-2.0±0.3	0.7±0.2	0.00±0.01	-1.39±0.02	1.182±0.007	1.182±0.007	0.014±0.004	0.042±0.007
90.0	-2.0±0.3	0.6±0.2	0.01±0.01	-1.39±0.02	1.184±0.007	1.183±0.007	0.013±0.004	0.041±0.007
100.2	-2.0±0.3	0.6±0.2	0.01±0.01	-1.39±0.02	1.185±0.007	1.185±0.007	0.013±0.004	0.040±0.007
110.3	-1.9±0.3	0.6±0.2	0.01±0.01	-1.39±0.02	1.185±0.007	1.185±0.007	0.012±0.004	0.039±0.007
120.5	-1.8±0.3	0.4±0.2	0.01±0.01	-1.39±0.02	1.185±0.007	1.184±0.007	0.009±0.004	0.038±0.007
130.7	-1.9±0.3	0.4±0.2	0.01±0.01	-1.39±0.02	1.184±0.007	1.183±0.007	0.008±0.004	0.039±0.007
140.8	-1.9±0.3	0.4±0.2	0.01±0.01	-1.39±0.02	1.182±0.007	1.181±0.007	0.008±0.004	0.039±0.007

Table B.212 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(130 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.2±0.3	3.5±0.4	-0.74±0.01	-1.44±0.02	0.840±0.007	0.838±0.007	0.051±0.005	0.003±0.005
4.7	0.3±0.3	2.1±0.3	-0.69±0.01	-1.45±0.02	0.873±0.006	0.873±0.006	0.032±0.005	-0.004±0.005
5.7	0.4±0.3	1.7±0.3	-0.65±0.01	-1.45±0.02	0.892±0.006	0.892±0.006	0.027±0.005	-0.006±0.005
6.7	0.2±0.3	1.7±0.3	-0.62±0.01	-1.45±0.02	0.908±0.006	0.907±0.006	0.027±0.005	-0.003±0.005
7.7	-0.1±0.3	1.7±0.3	-0.61±0.01	-1.45±0.02	0.916±0.006	0.916±0.006	0.027±0.005	0.002±0.005
8.7	-0.4±0.3	1.7±0.3	-0.59±0.01	-1.44±0.02	0.920±0.006	0.919±0.006	0.028±0.005	0.007±0.005
9.8	-0.8±0.3	1.7±0.3	-0.58±0.01	-1.44±0.02	0.928±0.006	0.927±0.006	0.028±0.005	0.013±0.005
10.8	-1.1±0.3	1.7±0.3	-0.57±0.01	-1.44±0.02	0.935±0.006	0.934±0.006	0.028±0.005	0.018±0.005
11.8	-1.5±0.3	1.7±0.3	-0.54±0.01	-1.43±0.02	0.941±0.006	0.941±0.006	0.027±0.005	0.024±0.005
12.8	-1.7±0.3	1.6±0.3	-0.53±0.01	-1.43±0.02	0.947±0.006	0.946±0.006	0.027±0.005	0.028±0.005
13.8	-1.9±0.3	1.6±0.3	-0.52±0.01	-1.44±0.02	0.956±0.006	0.955±0.006	0.027±0.005	0.032±0.005
16.4	-2.2±0.3	1.5±0.3	-0.48±0.01	-1.43±0.02	0.972±0.006	0.971±0.006	0.026±0.005	0.038±0.005
18.9	-2.4±0.3	1.5±0.3	-0.45±0.01	-1.44±0.02	0.993±0.006	0.991±0.006	0.026±0.004	0.042±0.005
21.4	-2.5±0.3	1.4±0.3	-0.43±0.01	-1.42±0.02	0.997±0.006	0.996±0.006	0.025±0.004	0.043±0.006
24.0	-2.6±0.3	1.4±0.2	-0.40±0.01	-1.44±0.02	1.020±0.006	1.019±0.006	0.024±0.004	0.045±0.006
26.5	-2.6±0.3	1.3±0.2	-0.36±0.01	-1.42±0.02	1.028±0.006	1.027±0.006	0.024±0.004	0.047±0.006
29.1	-2.6±0.3	1.3±0.2	-0.34±0.01	-1.43±0.02	1.040±0.007	1.039±0.007	0.024±0.004	0.048±0.006
31.6	-2.7±0.3	1.2±0.2	-0.32±0.01	-1.43±0.02	1.051±0.007	1.049±0.007	0.023±0.004	0.050±0.006
34.1	-2.7±0.3	1.2±0.2	-0.29±0.01	-1.42±0.02	1.060±0.007	1.059±0.007	0.023±0.004	0.051±0.006
36.7	-2.8±0.3	1.1±0.2	-0.28±0.01	-1.43±0.02	1.073±0.007	1.071±0.007	0.021±0.004	0.052±0.006
39.2	-2.8±0.3	1.1±0.2	-0.25±0.01	-1.43±0.02	1.085±0.007	1.084±0.007	0.021±0.004	0.052±0.006
44.3	-2.9±0.3	1.1±0.2	-0.21±0.01	-1.43±0.02	1.105±0.007	1.103±0.007	0.021±0.004	0.056±0.006
49.4	-2.9±0.3	1.0±0.2	-0.17±0.01	-1.42±0.02	1.121±0.007	1.120±0.007	0.020±0.004	0.056±0.006
54.5	-2.9±0.3	1.0±0.2	-0.13±0.01	-1.43±0.02	1.139±0.007	1.137±0.007	0.020±0.004	0.057±0.006
59.5	-2.9±0.3	0.9±0.2	-0.10±0.01	-1.42±0.02	1.150±0.007	1.148±0.007	0.018±0.004	0.058±0.006
64.6	-2.9±0.3	0.8±0.2	-0.06±0.01	-1.41±0.02	1.161±0.007	1.160±0.007	0.016±0.004	0.058±0.006
69.7	-2.9±0.3	0.8±0.2	-0.05±0.01	-1.43±0.02	1.176±0.007	1.174±0.007	0.016±0.004	0.058±0.006
74.8	-2.8±0.3	0.8±0.2	-0.02±0.01	-1.42±0.02	1.184±0.007	1.183±0.007	0.016±0.004	0.058±0.007
79.9	-2.8±0.3	0.7±0.2	0.00±0.01	-1.42±0.02	1.190±0.007	1.188±0.007	0.015±0.004	0.058±0.007
84.9	-2.7±0.3	0.6±0.2	0.00±0.01	-1.42±0.02	1.193±0.007	1.192±0.007	0.013±0.004	0.056±0.007
90.0	-2.7±0.3	0.6±0.2	0.01±0.01	-1.42±0.02	1.196±0.007	1.195±0.007	0.012±0.004	0.056±0.007
100.2	-2.6±0.3	0.5±0.2	0.01±0.01	-1.42±0.02	1.197±0.007	1.195±0.007	0.011±0.004	0.055±0.007
110.3	-2.6±0.3	0.4±0.2	0.01±0.01	-1.42±0.02	1.197±0.007	1.196±0.007	0.009±0.004	0.054±0.007
120.5	-2.6±0.3	0.4±0.2	0.01±0.01	-1.42±0.02	1.196±0.007	1.195±0.007	0.008±0.004	0.053±0.007
130.7	-2.5±0.3	0.3±0.2	0.01±0.01	-1.42±0.02	1.195±0.007	1.194±0.007	0.007±0.004	0.053±0.007
140.8	-2.5±0.3	0.2±0.2	0.01±0.01	-1.41±0.02	1.194±0.007	1.193±0.007	0.005±0.004	0.051±0.007

Table B.213 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(130 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.6±0.3	3.4±0.3	-0.71±0.01	-1.47±0.02	0.871±0.006	0.870±0.006	0.051±0.005	-0.008±0.005
4.7	0.8±0.3	2.3±0.3	-0.66±0.01	-1.47±0.02	0.901±0.006	0.900±0.006	0.036±0.005	-0.013±0.005
5.7	0.7±0.3	2.1±0.3	-0.62±0.01	-1.46±0.02	0.921±0.006	0.920±0.006	0.034±0.005	-0.011±0.005
6.7	0.3±0.3	2.0±0.3	-0.60±0.01	-1.47±0.02	0.934±0.006	0.933±0.006	0.033±0.005	-0.005±0.005
7.7	-0.2±0.3	1.9±0.3	-0.59±0.01	-1.47±0.02	0.939±0.006	0.939±0.006	0.031±0.005	0.003±0.005
8.7	-0.7±0.3	1.9±0.3	-0.58±0.01	-1.47±0.02	0.946±0.006	0.945±0.006	0.031±0.005	0.012±0.005
9.8	-1.2±0.3	1.9±0.3	-0.57±0.01	-1.46±0.02	0.947±0.006	0.946±0.006	0.031±0.005	0.020±0.005
10.8	-1.6±0.3	1.8±0.3	-0.55±0.01	-1.47±0.02	0.955±0.006	0.954±0.006	0.030±0.005	0.027±0.005
11.8	-2.0±0.3	1.7±0.3	-0.54±0.01	-1.46±0.02	0.960±0.006	0.959±0.006	0.029±0.005	0.033±0.005
12.8	-2.2±0.3	1.7±0.3	-0.52±0.01	-1.46±0.02	0.968±0.006	0.967±0.006	0.029±0.005	0.037±0.005
13.8	-2.4±0.3	1.5±0.3	-0.51±0.01	-1.45±0.02	0.973±0.006	0.972±0.006	0.026±0.005	0.041±0.005
16.4	-2.7±0.3	1.5±0.3	-0.48±0.01	-1.46±0.02	0.990±0.006	0.989±0.006	0.026±0.004	0.047±0.005
18.9	-2.9±0.3	1.4±0.3	-0.45±0.01	-1.46±0.02	1.004±0.006	1.002±0.006	0.025±0.004	0.051±0.006
21.4	-3.1±0.3	1.4±0.2	-0.42±0.01	-1.46±0.02	1.023±0.006	1.021±0.006	0.025±0.004	0.055±0.006
24.0	-3.2±0.3	1.4±0.2	-0.39±0.01	-1.45±0.02	1.032±0.006	1.030±0.006	0.024±0.004	0.057±0.006
26.5	-3.2±0.3	1.3±0.2	-0.36±0.01	-1.46±0.02	1.048±0.007	1.046±0.007	0.024±0.004	0.058±0.006
29.1	-3.3±0.3	1.3±0.2	-0.33±0.01	-1.45±0.02	1.058±0.007	1.056±0.007	0.024±0.004	0.060±0.006
31.6	-3.3±0.3	1.3±0.2	-0.32±0.01	-1.46±0.02	1.067±0.007	1.065±0.007	0.024±0.004	0.061±0.006
34.1	-3.3±0.3	1.2±0.2	-0.29±0.01	-1.45±0.02	1.079±0.007	1.076±0.007	0.022±0.004	0.063±0.006
36.7	-3.4±0.3	1.2±0.2	-0.27±0.01	-1.45±0.02	1.089±0.007	1.087±0.007	0.023±0.004	0.064±0.006
39.2	-3.4±0.3	1.2±0.2	-0.24±0.01	-1.44±0.02	1.097±0.007	1.095±0.007	0.022±0.004	0.065±0.006
44.3	-3.4±0.3	1.0±0.2	-0.20±0.01	-1.45±0.02	1.118±0.007	1.116±0.007	0.020±0.004	0.067±0.006
49.4	-3.4±0.3	1.0±0.2	-0.16±0.01	-1.46±0.02	1.139±0.007	1.137±0.007	0.020±0.004	0.068±0.006
54.5	-3.4±0.3	0.9±0.2	-0.13±0.01	-1.44±0.02	1.148±0.007	1.146±0.007	0.018±0.004	0.069±0.006
59.5	-3.4±0.3	0.9±0.2	-0.08±0.01	-1.45±0.02	1.167±0.007	1.165±0.007	0.017±0.004	0.069±0.006
64.6	-3.4±0.3	0.8±0.2	-0.06±0.01	-1.45±0.02	1.178±0.007	1.176±0.007	0.016±0.004	0.070±0.007
69.7	-3.4±0.3	0.8±0.2	-0.04±0.01	-1.46±0.02	1.189±0.007	1.186±0.007	0.016±0.004	0.071±0.007
74.8	-3.3±0.3	0.7±0.2	-0.02±0.01	-1.45±0.02	1.197±0.007	1.195±0.007	0.016±0.004	0.070±0.007
79.9	-3.3±0.3	0.6±0.2	0.00±0.01	-1.45±0.02	1.202±0.007	1.200±0.007	0.013±0.004	0.070±0.007
84.9	-3.3±0.3	0.6±0.2	0.01±0.01	-1.45±0.02	1.206±0.007	1.204±0.007	0.013±0.004	0.069±0.007
90.0	-3.2±0.3	0.5±0.2	0.01±0.01	-1.45±0.02	1.208±0.007	1.206±0.007	0.010±0.004	0.067±0.007
100.2	-3.1±0.3	0.4±0.2	0.01±0.01	-1.45±0.02	1.209±0.007	1.207±0.007	0.009±0.004	0.066±0.007
110.3	-3.1±0.3	0.4±0.2	0.01±0.01	-1.45±0.02	1.209±0.007	1.207±0.007	0.008±0.004	0.065±0.007
120.5	-3.1±0.3	0.4±0.2	0.01±0.01	-1.45±0.02	1.209±0.007	1.207±0.007	0.008±0.004	0.064±0.007
130.7	-3.0±0.3	0.2±0.2	0.01±0.01	-1.45±0.02	1.207±0.007	1.205±0.007	0.005±0.004	0.063±0.007
140.8	-2.9±0.3	0.2±0.2	0.01±0.01	-1.45±0.02	1.207±0.007	1.205±0.007	0.004±0.004	0.060±0.007

Table B.214 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(130 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.7±0.3	3.3±0.3	-0.67±0.01	-1.48±0.02	0.902±0.006	0.900±0.006	0.052±0.005	-0.011±0.005
4.7	0.9±0.3	2.3±0.3	-0.62±0.01	-1.48±0.02	0.927±0.006	0.927±0.006	0.038±0.005	-0.014±0.005
5.7	0.6±0.3	2.1±0.3	-0.59±0.01	-1.49±0.02	0.944±0.006	0.944±0.006	0.035±0.005	-0.009±0.005
6.7	0.1±0.3	2.0±0.3	-0.58±0.01	-1.48±0.02	0.951±0.006	0.950±0.006	0.034±0.005	-0.002±0.005
7.7	-0.4±0.3	1.9±0.3	-0.56±0.01	-1.48±0.02	0.954±0.006	0.954±0.006	0.032±0.005	0.007±0.005
8.7	-1.0±0.3	1.8±0.3	-0.56±0.01	-1.47±0.02	0.956±0.006	0.956±0.006	0.031±0.005	0.017±0.005
9.8	-1.4±0.3	1.8±0.3	-0.55±0.01	-1.48±0.02	0.965±0.006	0.965±0.006	0.030±0.005	0.024±0.005
10.8	-1.9±0.3	1.5±0.3	-0.53±0.01	-1.47±0.02	0.970±0.006	0.969±0.006	0.026±0.005	0.032±0.005
11.8	-2.2±0.3	1.6±0.3	-0.52±0.01	-1.47±0.02	0.976±0.006	0.975±0.006	0.027±0.005	0.037±0.005
12.8	-2.5±0.3	1.5±0.3	-0.50±0.01	-1.46±0.02	0.981±0.006	0.980±0.006	0.025±0.004	0.042±0.005
13.8	-2.6±0.3	1.4±0.3	-0.49±0.01	-1.47±0.02	0.988±0.006	0.987±0.006	0.025±0.004	0.045±0.005
16.4	-3.0±0.3	1.4±0.3	-0.46±0.01	-1.47±0.02	1.001±0.006	1.000±0.006	0.025±0.004	0.052±0.006
18.9	-3.2±0.3	1.3±0.2	-0.43±0.01	-1.47±0.02	1.019±0.006	1.017±0.006	0.024±0.004	0.056±0.006
21.4	-3.3±0.3	1.3±0.2	-0.40±0.01	-1.46±0.02	1.032±0.006	1.030±0.006	0.023±0.004	0.060±0.006
24.0	-3.4±0.3	1.3±0.2	-0.38±0.01	-1.47±0.02	1.042±0.007	1.040±0.007	0.023±0.004	0.062±0.006
26.5	-3.5±0.3	1.3±0.2	-0.35±0.01	-1.45±0.02	1.052±0.007	1.049±0.007	0.023±0.004	0.065±0.006
29.1	-3.5±0.3	1.3±0.2	-0.32±0.01	-1.46±0.02	1.065±0.007	1.063±0.007	0.023±0.004	0.066±0.006
31.6	-3.6±0.3	1.2±0.2	-0.30±0.01	-1.46±0.02	1.075±0.007	1.073±0.007	0.022±0.004	0.068±0.006
34.1	-3.6±0.3	1.1±0.2	-0.28±0.01	-1.46±0.02	1.089±0.007	1.086±0.007	0.020±0.004	0.069±0.006
36.7	-3.7±0.3	1.1±0.2	-0.25±0.01	-1.46±0.02	1.098±0.007	1.096±0.007	0.020±0.004	0.071±0.006
39.2	-3.7±0.3	1.1±0.2	-0.23±0.01	-1.46±0.02	1.109±0.007	1.106±0.007	0.021±0.004	0.072±0.006
44.3	-3.8±0.3	1.0±0.2	-0.20±0.01	-1.46±0.02	1.124±0.007	1.121±0.007	0.020±0.004	0.074±0.006
49.4	-3.8±0.3	1.0±0.2	-0.16±0.01	-1.45±0.02	1.139±0.007	1.136±0.007	0.019±0.004	0.075±0.006
54.5	-3.7±0.3	0.9±0.2	-0.12±0.01	-1.46±0.02	1.160±0.007	1.157±0.007	0.017±0.004	0.075±0.006
59.5	-3.8±0.3	0.8±0.2	-0.09±0.01	-1.47±0.02	1.175±0.007	1.172±0.007	0.016±0.004	0.077±0.006
64.6	-3.7±0.3	0.8±0.2	-0.05±0.01	-1.45±0.02	1.183±0.007	1.181±0.007	0.016±0.004	0.076±0.007
69.7	-3.6±0.3	0.7±0.2	-0.04±0.01	-1.47±0.02	1.192±0.007	1.190±0.007	0.014±0.004	0.076±0.007
74.8	-3.6±0.3	0.6±0.2	-0.02±0.01	-1.47±0.02	1.203±0.007	1.201±0.007	0.013±0.004	0.076±0.007
79.9	-3.5±0.3	0.6±0.2	0.00±0.01	-1.47±0.02	1.209±0.007	1.206±0.007	0.013±0.004	0.074±0.007
84.9	-3.5±0.3	0.5±0.2	0.00±0.01	-1.47±0.02	1.212±0.007	1.210±0.007	0.011±0.004	0.074±0.007
90.0	-3.4±0.3	0.5±0.2	0.01±0.01	-1.46±0.02	1.214±0.007	1.211±0.007	0.010±0.004	0.073±0.007
100.2	-3.4±0.3	0.4±0.2	0.01±0.01	-1.46±0.02	1.214±0.007	1.212±0.007	0.008±0.004	0.072±0.007
110.3	-3.3±0.3	0.3±0.2	0.01±0.01	-1.46±0.02	1.215±0.007	1.213±0.007	0.007±0.004	0.070±0.007
120.5	-3.3±0.3	0.2±0.2	0.01±0.01	-1.46±0.02	1.213±0.007	1.211±0.007	0.005±0.004	0.069±0.007
130.7	-3.2±0.3	0.2±0.2	0.01±0.01	-1.46±0.02	1.213±0.007	1.211±0.007	0.005±0.004	0.068±0.007
140.8	-3.1±0.3	0.2±0.2	0.01±0.01	-1.46±0.02	1.212±0.007	1.210±0.007	0.005±0.004	0.066±0.007

Table B.215 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(130 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.4±0.3	2.7±0.3	-0.62±0.01	-1.49±0.02	0.931±0.006	0.930±0.006	0.044±0.005	-0.006±0.005
4.7	0.4±0.3	2.1±0.3	-0.58±0.01	-1.50±0.02	0.956±0.006	0.956±0.006	0.035±0.005	-0.007±0.005
5.7	0.1±0.3	1.9±0.3	-0.57±0.01	-1.50±0.02	0.968±0.006	0.968±0.006	0.032±0.005	-0.001±0.005
6.7	-0.5±0.3	1.8±0.3	-0.55±0.01	-1.50±0.02	0.971±0.006	0.971±0.006	0.031±0.005	0.008±0.005
7.7	-1.0±0.3	1.7±0.3	-0.54±0.01	-1.49±0.02	0.974±0.006	0.973±0.006	0.030±0.005	0.018±0.005
8.7	-1.5±0.3	1.7±0.3	-0.54±0.01	-1.49±0.02	0.978±0.006	0.977±0.006	0.029±0.005	0.026±0.005
9.8	-1.9±0.3	1.6±0.3	-0.52±0.01	-1.49±0.02	0.984±0.006	0.983±0.006	0.027±0.004	0.033±0.005
10.8	-2.3±0.3	1.5±0.3	-0.51±0.01	-1.48±0.02	0.989±0.006	0.987±0.006	0.025±0.004	0.040±0.005
11.8	-2.6±0.3	1.4±0.3	-0.50±0.01	-1.48±0.02	0.992±0.006	0.991±0.006	0.025±0.004	0.045±0.005
12.8	-2.8±0.3	1.4±0.3	-0.48±0.01	-1.48±0.02	1.000±0.006	0.999±0.006	0.025±0.004	0.050±0.006
13.8	-3.0±0.3	1.3±0.3	-0.47±0.01	-1.48±0.02	1.005±0.006	1.003±0.006	0.023±0.004	0.052±0.006
16.4	-3.3±0.3	1.3±0.2	-0.44±0.01	-1.47±0.02	1.017±0.006	1.015±0.006	0.023±0.004	0.059±0.006
18.9	-3.6±0.3	1.2±0.2	-0.41±0.01	-1.48±0.02	1.036±0.007	1.034±0.006	0.021±0.004	0.064±0.006
21.4	-3.7±0.3	1.2±0.2	-0.39±0.01	-1.47±0.02	1.042±0.007	1.039±0.007	0.021±0.004	0.067±0.006
24.0	-3.8±0.3	1.1±0.2	-0.36±0.01	-1.48±0.02	1.055±0.007	1.052±0.007	0.021±0.004	0.070±0.006
26.5	-4.0±0.3	1.1±0.2	-0.34±0.01	-1.48±0.02	1.066±0.007	1.063±0.007	0.021±0.004	0.074±0.006
29.1	-4.0±0.3	1.1±0.2	-0.32±0.01	-1.48±0.02	1.076±0.007	1.074±0.007	0.020±0.004	0.075±0.006
31.6	-4.1±0.3	1.1±0.2	-0.29±0.01	-1.47±0.02	1.086±0.007	1.083±0.007	0.021±0.004	0.078±0.006
34.1	-4.2±0.3	1.0±0.2	-0.26±0.01	-1.47±0.02	1.097±0.007	1.094±0.007	0.020±0.004	0.080±0.006
36.7	-4.2±0.3	1.0±0.2	-0.25±0.01	-1.48±0.02	1.108±0.007	1.105±0.007	0.020±0.004	0.081±0.006
39.2	-4.2±0.3	1.0±0.2	-0.22±0.01	-1.47±0.02	1.117±0.007	1.114±0.007	0.020±0.004	0.081±0.006
44.3	-4.2±0.3	0.9±0.2	-0.19±0.01	-1.49±0.02	1.138±0.007	1.135±0.007	0.019±0.004	0.084±0.006
49.4	-4.3±0.3	0.8±0.2	-0.15±0.01	-1.48±0.02	1.154±0.007	1.151±0.007	0.017±0.004	0.086±0.006
54.5	-4.3±0.3	0.8±0.2	-0.12±0.01	-1.47±0.02	1.164±0.007	1.161±0.007	0.016±0.004	0.086±0.006
59.5	-4.2±0.3	0.8±0.2	-0.09±0.01	-1.48±0.02	1.178±0.007	1.175±0.007	0.016±0.004	0.087±0.007
64.6	-4.2±0.3	0.7±0.2	-0.05±0.01	-1.48±0.02	1.195±0.007	1.192±0.007	0.014±0.004	0.087±0.007
69.7	-4.2±0.3	0.6±0.2	-0.03±0.01	-1.47±0.02	1.201±0.007	1.198±0.007	0.013±0.004	0.088±0.007
74.8	-4.1±0.3	0.6±0.2	-0.01±0.01	-1.47±0.02	1.209±0.007	1.206±0.007	0.012±0.004	0.087±0.007
79.9	-4.0±0.3	0.5±0.2	0.00±0.01	-1.48±0.02	1.215±0.007	1.212±0.007	0.011±0.004	0.085±0.007
84.9	-4.0±0.3	0.4±0.2	0.00±0.01	-1.48±0.02	1.219±0.007	1.216±0.007	0.009±0.004	0.084±0.007
90.0	-4.0±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.220±0.007	1.217±0.007	0.009±0.004	0.084±0.007
100.2	-3.8±0.3	0.4±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.219±0.007	0.008±0.004	0.081±0.007
110.3	-3.8±0.3	0.2±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.219±0.007	0.005±0.004	0.080±0.007
120.5	-3.7±0.3	0.2±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.218±0.007	0.005±0.004	0.079±0.007
130.7	-3.6±0.3	0.2±0.2	0.01±0.01	-1.48±0.02	1.221±0.007	1.218±0.007	0.005±0.004	0.076±0.007
140.8	-3.5±0.3	0.1±0.2	0.01±0.01	-1.47±0.02	1.218±0.007	1.216±0.007	0.002±0.004	0.074±0.007

Table B.216 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(130 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.0±0.3	2.4±0.3	-0.60±0.01	-1.51±0.02	0.956±0.006	0.955±0.006	0.039±0.005	0.000±0.005
4.7	0.0±0.3	1.8±0.3	-0.56±0.01	-1.51±0.02	0.974±0.006	0.973±0.006	0.030±0.005	0.000±0.005
5.7	-0.4±0.3	1.7±0.3	-0.54±0.01	-1.51±0.02	0.987±0.006	0.986±0.006	0.029±0.004	0.008±0.005
6.7	-0.9±0.3	1.7±0.3	-0.53±0.01	-1.50±0.02	0.988±0.006	0.988±0.006	0.029±0.004	0.016±0.005
7.7	-1.4±0.3	1.7±0.3	-0.51±0.01	-1.49±0.02	0.990±0.006	0.989±0.006	0.029±0.004	0.024±0.005
8.7	-1.9±0.3	1.6±0.3	-0.50±0.01	-1.49±0.02	0.995±0.006	0.994±0.006	0.028±0.004	0.033±0.005
9.8	-2.2±0.3	1.5±0.3	-0.49±0.01	-1.49±0.02	1.001±0.006	1.000±0.006	0.026±0.004	0.039±0.006
10.8	-2.6±0.3	1.4±0.3	-0.48±0.01	-1.48±0.02	1.000±0.006	0.999±0.006	0.025±0.004	0.045±0.006
11.8	-2.8±0.3	1.4±0.2	-0.47±0.01	-1.49±0.02	1.012±0.006	1.011±0.006	0.024±0.004	0.050±0.006
12.8	-3.0±0.3	1.3±0.2	-0.46±0.01	-1.48±0.02	1.014±0.006	1.013±0.006	0.023±0.004	0.054±0.006
13.8	-3.2±0.3	1.2±0.2	-0.45±0.01	-1.49±0.02	1.020±0.006	1.018±0.006	0.021±0.004	0.057±0.006
16.4	-3.6±0.3	1.1±0.2	-0.42±0.01	-1.49±0.02	1.034±0.007	1.032±0.007	0.020±0.004	0.064±0.006
18.9	-3.8±0.3	1.1±0.2	-0.40±0.01	-1.48±0.02	1.041±0.007	1.038±0.007	0.020±0.004	0.069±0.006
21.4	-3.9±0.3	1.0±0.2	-0.37±0.01	-1.48±0.02	1.057±0.007	1.054±0.007	0.019±0.004	0.073±0.006
24.0	-4.1±0.3	1.0±0.2	-0.34±0.01	-1.48±0.02	1.068±0.007	1.065±0.007	0.019±0.004	0.077±0.006
26.5	-4.2±0.3	1.0±0.2	-0.32±0.01	-1.48±0.02	1.077±0.007	1.074±0.007	0.018±0.004	0.079±0.006
29.1	-4.3±0.3	1.0±0.2	-0.30±0.01	-1.48±0.02	1.089±0.007	1.086±0.007	0.018±0.004	0.082±0.006
31.6	-4.4±0.3	0.9±0.2	-0.28±0.01	-1.48±0.02	1.096±0.007	1.093±0.007	0.017±0.004	0.084±0.006
34.1	-4.4±0.3	0.9±0.2	-0.26±0.01	-1.49±0.02	1.108±0.007	1.104±0.007	0.017±0.004	0.086±0.006
36.7	-4.5±0.3	0.8±0.2	-0.24±0.01	-1.48±0.02	1.116±0.007	1.112±0.007	0.016±0.004	0.087±0.006
39.2	-4.6±0.3	0.8±0.2	-0.22±0.01	-1.48±0.02	1.124±0.007	1.120±0.007	0.016±0.004	0.089±0.006
44.3	-4.6±0.3	0.7±0.2	-0.18±0.01	-1.47±0.02	1.139±0.007	1.136±0.007	0.014±0.004	0.090±0.006
49.4	-4.6±0.3	0.7±0.2	-0.16±0.01	-1.50±0.02	1.159±0.007	1.155±0.007	0.013±0.004	0.092±0.006
54.5	-4.6±0.3	0.6±0.2	-0.12±0.01	-1.48±0.02	1.170±0.007	1.166±0.007	0.013±0.004	0.094±0.006
59.5	-4.6±0.3	0.6±0.2	-0.08±0.01	-1.49±0.02	1.188±0.007	1.184±0.007	0.012±0.004	0.095±0.007
64.6	-4.6±0.3	0.5±0.2	-0.05±0.01	-1.48±0.02	1.197±0.007	1.193±0.007	0.011±0.004	0.095±0.007
69.7	-4.5±0.3	0.4±0.2	-0.03±0.01	-1.49±0.02	1.206±0.007	1.202±0.007	0.009±0.004	0.094±0.007
74.8	-4.4±0.3	0.4±0.2	-0.02±0.01	-1.49±0.02	1.215±0.007	1.211±0.007	0.009±0.004	0.093±0.007
79.9	-4.4±0.3	0.4±0.2	0.00±0.01	-1.49±0.02	1.219±0.007	1.216±0.007	0.008±0.004	0.093±0.007
84.9	-4.3±0.3	0.4±0.2	0.00±0.01	-1.49±0.02	1.222±0.007	1.219±0.007	0.008±0.004	0.092±0.007
90.0	-4.3±0.3	0.3±0.2	0.01±0.01	-1.49±0.02	1.224±0.007	1.221±0.007	0.007±0.004	0.091±0.007
100.2	-4.1±0.3	0.2±0.2	0.01±0.01	-1.49±0.02	1.226±0.007	1.223±0.007	0.005±0.004	0.087±0.007
110.3	-4.1±0.3	0.2±0.2	0.01±0.01	-1.49±0.02	1.225±0.007	1.222±0.007	0.004±0.004	0.087±0.007
120.5	-4.0±0.3	0.1±0.2	0.01±0.01	-1.49±0.02	1.225±0.007	1.222±0.007	0.003±0.004	0.086±0.007
130.7	-3.9±0.3	0.1±0.2	0.01±0.01	-1.49±0.02	1.224±0.007	1.221±0.007	0.003±0.004	0.083±0.007
140.8	-3.8±0.3	0.1±0.2	0.01±0.01	-1.48±0.02	1.223±0.007	1.220±0.007	0.001±0.004	0.082±0.007

Table B.217 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(130 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.5±0.3	2.6±0.3	-0.59±0.01	-1.53±0.02	0.969±0.006	0.968±0.006	0.043±0.005	0.008±0.005
4.7	-0.6±0.3	1.9±0.3	-0.54±0.01	-1.53±0.02	0.995±0.006	0.995±0.006	0.034±0.004	0.010±0.005
5.7	-1.0±0.3	1.8±0.3	-0.51±0.01	-1.51±0.02	1.003±0.006	1.002±0.006	0.032±0.004	0.018±0.006
6.7	-1.4±0.3	1.7±0.2	-0.51±0.01	-1.53±0.02	1.012±0.006	1.011±0.006	0.030±0.004	0.025±0.006
7.7	-1.9±0.3	1.6±0.2	-0.48±0.01	-1.51±0.02	1.015±0.006	1.014±0.006	0.029±0.004	0.034±0.006
8.7	-2.3±0.3	1.5±0.2	-0.49±0.01	-1.51±0.02	1.014±0.006	1.013±0.006	0.027±0.004	0.041±0.006
9.8	-2.7±0.3	1.4±0.2	-0.47±0.01	-1.51±0.02	1.016±0.006	1.015±0.006	0.025±0.004	0.047±0.006
10.8	-2.9±0.3	1.3±0.2	-0.45±0.01	-1.51±0.02	1.029±0.007	1.027±0.007	0.024±0.004	0.052±0.006
11.8	-3.2±0.3	1.2±0.2	-0.44±0.01	-1.51±0.02	1.031±0.007	1.029±0.007	0.022±0.004	0.057±0.006
12.8	-3.4±0.3	1.1±0.2	-0.44±0.01	-1.50±0.02	1.032±0.007	1.030±0.007	0.020±0.004	0.061±0.006
13.8	-3.6±0.3	1.1±0.2	-0.42±0.01	-1.49±0.02	1.036±0.007	1.034±0.007	0.020±0.004	0.065±0.006
16.4	-3.9±0.3	1.0±0.2	-0.40±0.01	-1.50±0.02	1.048±0.007	1.046±0.007	0.018±0.004	0.071±0.006
18.9	-4.2±0.3	0.8±0.2	-0.37±0.01	-1.49±0.02	1.058±0.007	1.055±0.007	0.015±0.004	0.078±0.006
21.4	-4.3±0.3	0.9±0.2	-0.35±0.01	-1.50±0.02	1.075±0.007	1.072±0.007	0.016±0.004	0.081±0.006
24.0	-4.5±0.3	0.7±0.2	-0.33±0.01	-1.49±0.02	1.080±0.007	1.077±0.007	0.014±0.004	0.084±0.006
26.5	-4.6±0.3	0.7±0.2	-0.32±0.01	-1.51±0.02	1.091±0.007	1.087±0.007	0.012±0.004	0.087±0.006
29.1	-4.7±0.3	0.6±0.2	-0.29±0.01	-1.50±0.02	1.101±0.007	1.097±0.007	0.012±0.004	0.090±0.006
31.6	-4.7±0.3	0.6±0.2	-0.26±0.01	-1.49±0.02	1.109±0.007	1.105±0.007	0.012±0.004	0.092±0.006
34.1	-4.8±0.3	0.6±0.2	-0.24±0.01	-1.49±0.02	1.118±0.007	1.114±0.007	0.012±0.004	0.094±0.006
36.7	-4.9±0.3	0.6±0.2	-0.23±0.01	-1.50±0.02	1.127±0.007	1.123±0.007	0.011±0.004	0.095±0.006
39.2	-4.9±0.3	0.5±0.2	-0.21±0.01	-1.51±0.02	1.138±0.007	1.134±0.007	0.011±0.004	0.097±0.006
44.3	-5.0±0.3	0.4±0.2	-0.17±0.01	-1.50±0.02	1.153±0.007	1.149±0.007	0.009±0.004	0.100±0.006
49.4	-5.0±0.3	0.5±0.2	-0.15±0.01	-1.51±0.02	1.168±0.007	1.164±0.007	0.010±0.004	0.102±0.006
54.5	-5.0±0.3	0.4±0.2	-0.10±0.01	-1.50±0.02	1.182±0.007	1.177±0.007	0.009±0.004	0.102±0.007
59.5	-5.0±0.3	0.4±0.2	-0.08±0.01	-1.51±0.02	1.193±0.007	1.189±0.007	0.008±0.004	0.103±0.007
64.6	-5.0±0.3	0.4±0.2	-0.05±0.01	-1.50±0.02	1.204±0.007	1.200±0.007	0.008±0.004	0.104±0.007
69.7	-4.9±0.3	0.3±0.2	-0.03±0.01	-1.50±0.02	1.214±0.007	1.209±0.007	0.007±0.004	0.104±0.007
74.8	-4.9±0.3	0.2±0.2	-0.01±0.01	-1.50±0.02	1.222±0.007	1.217±0.007	0.005±0.004	0.103±0.007
79.9	-4.8±0.3	0.2±0.2	0.00±0.01	-1.51±0.02	1.227±0.007	1.223±0.007	0.005±0.004	0.102±0.007
84.9	-4.7±0.3	0.2±0.2	0.01±0.01	-1.51±0.02	1.230±0.007	1.226±0.007	0.004±0.004	0.101±0.007
90.0	-4.6±0.3	0.2±0.2	0.01±0.01	-1.51±0.02	1.232±0.007	1.228±0.007	0.004±0.004	0.099±0.007
100.2	-4.5±0.3	0.1±0.2	0.01±0.01	-1.51±0.02	1.233±0.007	1.229±0.007	0.003±0.004	0.097±0.007
110.3	-4.4±0.3	0.1±0.2	0.01±0.01	-1.51±0.02	1.234±0.007	1.230±0.007	0.001±0.004	0.095±0.007
120.5	-4.4±0.3	0.0±0.2	0.01±0.01	-1.51±0.02	1.233±0.007	1.230±0.007	0.000±0.004	0.094±0.007
130.7	-4.3±0.3	-0.1±0.2	0.01±0.01	-1.51±0.02	1.233±0.007	1.230±0.007	-0.002±0.004	0.092±0.007
140.8	-4.2±0.3	-0.1±0.2	0.01±0.01	-1.51±0.02	1.232±0.007	1.228±0.007	-0.003±0.004	0.090±0.007

Table B.218 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(130 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.1±0.3	2.9±0.3	-0.53±0.01	-1.51±0.02	0.990±0.006	0.989±0.006	0.051±0.004	0.020±0.005
4.7	-1.4±0.3	2.0±0.2	-0.48±0.01	-1.52±0.02	1.021±0.006	1.020±0.006	0.035±0.004	0.024±0.006
5.7	-1.8±0.3	1.6±0.2	-0.47±0.01	-1.52±0.02	1.024±0.006	1.023±0.006	0.029±0.004	0.032±0.006
6.7	-2.2±0.3	1.4±0.2	-0.45±0.01	-1.51±0.02	1.025±0.006	1.024±0.006	0.026±0.004	0.039±0.006
7.7	-2.6±0.3	1.3±0.2	-0.44±0.01	-1.52±0.02	1.036±0.006	1.034±0.006	0.024±0.004	0.047±0.006
8.7	-2.9±0.3	1.1±0.2	-0.43±0.01	-1.50±0.02	1.034±0.006	1.032±0.006	0.020±0.004	0.053±0.006
9.8	-3.2±0.3	1.0±0.2	-0.42±0.01	-1.51±0.02	1.044±0.007	1.042±0.007	0.018±0.004	0.059±0.006
10.8	-3.4±0.3	0.9±0.2	-0.42±0.01	-1.51±0.02	1.044±0.007	1.042±0.007	0.016±0.004	0.063±0.006
11.8	-3.6±0.3	0.8±0.2	-0.40±0.01	-1.50±0.02	1.049±0.007	1.046±0.007	0.014±0.004	0.066±0.006
12.8	-3.8±0.3	0.7±0.2	-0.39±0.01	-1.50±0.02	1.051±0.007	1.049±0.007	0.013±0.004	0.070±0.006
13.8	-4.0±0.3	0.6±0.2	-0.39±0.01	-1.51±0.02	1.056±0.007	1.053±0.007	0.011±0.004	0.073±0.006
16.4	-4.3±0.3	0.4±0.2	-0.36±0.01	-1.50±0.02	1.065±0.007	1.062±0.007	0.008±0.004	0.079±0.006
18.9	-4.5±0.3	0.4±0.2	-0.34±0.01	-1.51±0.02	1.079±0.007	1.076±0.007	0.008±0.004	0.085±0.006
21.4	-4.7±0.3	0.3±0.2	-0.32±0.01	-1.50±0.02	1.084±0.007	1.081±0.007	0.005±0.004	0.089±0.006
24.0	-4.8±0.3	0.3±0.2	-0.31±0.01	-1.51±0.02	1.095±0.007	1.091±0.007	0.005±0.004	0.091±0.006
26.5	-4.9±0.3	0.2±0.2	-0.29±0.01	-1.50±0.02	1.100±0.007	1.096±0.007	0.004±0.004	0.095±0.006
29.1	-5.0±0.3	0.2±0.2	-0.26±0.01	-1.50±0.02	1.113±0.007	1.108±0.007	0.004±0.004	0.098±0.006
31.6	-5.1±0.3	0.1±0.2	-0.25±0.01	-1.50±0.02	1.119±0.007	1.115±0.007	0.003±0.004	0.100±0.006
34.1	-5.2±0.3	0.0±0.2	-0.23±0.01	-1.51±0.02	1.132±0.007	1.128±0.007	0.001±0.004	0.102±0.006
36.7	-5.2±0.3	0.0±0.2	-0.21±0.01	-1.52±0.02	1.143±0.007	1.138±0.007	0.001±0.004	0.103±0.006
39.2	-5.2±0.3	0.1±0.2	-0.19±0.01	-1.49±0.02	1.144±0.007	1.139±0.007	0.002±0.004	0.104±0.006
44.3	-5.3±0.3	0.0±0.2	-0.17±0.01	-1.52±0.02	1.162±0.007	1.157±0.007	0.000±0.004	0.107±0.006
49.4	-5.3±0.3	0.0±0.2	-0.12±0.01	-1.51±0.02	1.178±0.007	1.173±0.007	0.001±0.004	0.109±0.007
54.5	-5.3±0.3	0.0±0.2	-0.09±0.01	-1.51±0.02	1.190±0.007	1.185±0.007	0.001±0.004	0.110±0.007
59.5	-5.3±0.3	0.0±0.2	-0.07±0.01	-1.52±0.02	1.204±0.007	1.199±0.007	0.001±0.004	0.112±0.007
64.6	-5.3±0.3	0.0±0.2	-0.04±0.01	-1.51±0.02	1.210±0.007	1.205±0.007	0.000±0.004	0.112±0.007
69.7	-5.3±0.3	0.0±0.2	-0.02±0.01	-1.51±0.02	1.219±0.007	1.214±0.007	0.001±0.004	0.112±0.007
74.8	-5.2±0.3	0.0±0.2	-0.01±0.01	-1.51±0.02	1.228±0.007	1.223±0.007	0.000±0.004	0.112±0.007
79.9	-5.1±0.3	0.0±0.2	0.00±0.01	-1.52±0.02	1.231±0.007	1.226±0.007	0.000±0.004	0.110±0.007
84.9	-5.1±0.3	0.0±0.2	0.01±0.01	-1.52±0.02	1.235±0.007	1.230±0.007	-0.001±0.004	0.109±0.007
90.0	-5.0±0.3	0.0±0.2	0.01±0.01	-1.52±0.02	1.236±0.007	1.231±0.007	-0.001±0.004	0.108±0.007
100.2	-4.9±0.3	0.0±0.2	0.01±0.01	-1.52±0.02	1.238±0.007	1.234±0.007	-0.001±0.004	0.105±0.007
110.3	-4.8±0.3	-0.1±0.2	0.01±0.01	-1.52±0.02	1.238±0.007	1.234±0.007	-0.002±0.004	0.103±0.007
120.5	-4.7±0.3	-0.1±0.2	0.01±0.01	-1.52±0.02	1.238±0.007	1.234±0.007	-0.002±0.004	0.101±0.007
130.7	-4.6±0.3	-0.2±0.2	0.01±0.01	-1.52±0.02	1.237±0.007	1.233±0.007	-0.003±0.004	0.099±0.007
140.8	-4.5±0.3	-0.2±0.2	0.01±0.01	-1.52±0.02	1.236±0.007	1.232±0.007	-0.005±0.004	0.098±0.007

Table B.219 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(130 mm,-38 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.7±0.3	1.9±0.2	-0.49±0.01	-1.52±0.02	1.016±0.006	1.015±0.006	0.033±0.004	0.048±0.006
4.7	-2.7±0.3	0.9±0.2	-0.45±0.01	-1.52±0.02	1.032±0.006	1.031±0.006	0.016±0.004	0.049±0.006
5.7	-2.8±0.3	0.4±0.2	-0.42±0.01	-1.50±0.02	1.040±0.006	1.038±0.006	0.007±0.004	0.051±0.006
6.7	-3.0±0.3	0.1±0.2	-0.41±0.01	-1.53±0.02	1.057±0.007	1.055±0.007	0.001±0.004	0.055±0.006
7.7	-3.2±0.3	-0.2±0.2	-0.41±0.01	-1.53±0.02	1.062±0.007	1.060±0.007	-0.004±0.004	0.059±0.006
8.7	-3.4±0.3	-0.4±0.2	-0.38±0.01	-1.51±0.02	1.064±0.007	1.062±0.007	-0.007±0.004	0.063±0.006
9.8	-3.5±0.3	-0.6±0.2	-0.37±0.01	-1.51±0.02	1.068±0.007	1.066±0.007	-0.010±0.004	0.065±0.006
10.8	-3.8±0.3	-0.7±0.2	-0.36±0.01	-1.51±0.02	1.071±0.007	1.069±0.007	-0.013±0.004	0.070±0.006
11.8	-3.9±0.3	-0.8±0.2	-0.35±0.01	-1.49±0.02	1.070±0.007	1.067±0.007	-0.015±0.004	0.073±0.006
12.8	-4.0±0.3	-0.8±0.2	-0.34±0.01	-1.50±0.02	1.076±0.007	1.073±0.007	-0.016±0.004	0.075±0.006
13.8	-4.2±0.3	-0.9±0.2	-0.34±0.01	-1.50±0.02	1.077±0.007	1.074±0.007	-0.017±0.004	0.078±0.006
16.4	-4.4±0.3	-1.0±0.2	-0.32±0.01	-1.50±0.02	1.083±0.007	1.079±0.007	-0.020±0.004	0.083±0.006
18.9	-4.6±0.3	-1.1±0.2	-0.30±0.01	-1.50±0.02	1.093±0.007	1.089±0.007	-0.022±0.004	0.088±0.006
21.4	-4.8±0.3	-1.2±0.2	-0.27±0.01	-1.50±0.02	1.105±0.007	1.101±0.007	-0.022±0.004	0.093±0.006
24.0	-4.9±0.3	-1.2±0.2	-0.26±0.01	-1.50±0.02	1.111±0.007	1.107±0.007	-0.022±0.004	0.095±0.006
26.5	-5.0±0.3	-1.2±0.2	-0.24±0.01	-1.51±0.02	1.125±0.007	1.121±0.007	-0.023±0.004	0.099±0.006
29.1	-5.1±0.3	-1.1±0.2	-0.24±0.01	-1.52±0.02	1.132±0.007	1.127±0.007	-0.022±0.004	0.101±0.006
31.6	-5.2±0.3	-1.1±0.2	-0.21±0.01	-1.51±0.02	1.141±0.007	1.136±0.007	-0.022±0.004	0.104±0.006
34.1	-5.2±0.3	-1.1±0.2	-0.20±0.01	-1.51±0.02	1.145±0.007	1.140±0.007	-0.022±0.004	0.105±0.006
36.7	-5.3±0.3	-1.1±0.2	-0.17±0.01	-1.51±0.02	1.155±0.007	1.150±0.007	-0.021±0.004	0.107±0.006
39.2	-5.3±0.3	-1.0±0.2	-0.16±0.01	-1.51±0.02	1.161±0.007	1.156±0.007	-0.021±0.004	0.107±0.006
44.3	-5.4±0.3	-0.9±0.2	-0.13±0.01	-1.50±0.02	1.173±0.007	1.168±0.007	-0.019±0.004	0.110±0.006
49.4	-5.4±0.3	-0.8±0.2	-0.11±0.01	-1.52±0.02	1.189±0.007	1.184±0.007	-0.018±0.004	0.112±0.007
54.5	-5.4±0.3	-0.8±0.2	-0.09±0.01	-1.52±0.02	1.197±0.007	1.192±0.007	-0.017±0.004	0.113±0.007
59.5	-5.4±0.3	-0.7±0.2	-0.05±0.01	-1.53±0.02	1.215±0.007	1.209±0.007	-0.014±0.004	0.115±0.007
64.6	-5.4±0.3	-0.6±0.2	-0.04±0.01	-1.52±0.02	1.220±0.007	1.215±0.007	-0.013±0.004	0.115±0.007
69.7	-5.4±0.3	-0.5±0.2	-0.02±0.01	-1.53±0.02	1.228±0.007	1.222±0.007	-0.011±0.004	0.116±0.007
74.8	-5.4±0.3	-0.4±0.2	0.00±0.01	-1.53±0.02	1.234±0.007	1.229±0.007	-0.009±0.004	0.115±0.007
79.9	-5.3±0.3	-0.4±0.2	0.00±0.01	-1.53±0.02	1.238±0.007	1.233±0.007	-0.009±0.004	0.114±0.007
84.9	-5.2±0.3	-0.3±0.2	0.01±0.01	-1.53±0.02	1.241±0.007	1.236±0.007	-0.006±0.004	0.113±0.007
90.0	-5.2±0.3	-0.2±0.2	0.01±0.01	-1.54±0.02	1.243±0.007	1.238±0.007	-0.005±0.003	0.112±0.007
100.2	-5.1±0.3	-0.3±0.2	0.01±0.01	-1.54±0.02	1.245±0.007	1.240±0.007	-0.005±0.003	0.110±0.007
110.3	-5.0±0.3	-0.2±0.2	0.01±0.01	-1.54±0.02	1.245±0.007	1.241±0.007	-0.004±0.003	0.108±0.007
120.5	-4.9±0.3	-0.2±0.2	0.01±0.01	-1.54±0.02	1.245±0.007	1.241±0.007	-0.005±0.003	0.107±0.007
130.7	-4.9±0.3	-0.3±0.2	0.01±0.01	-1.54±0.02	1.245±0.007	1.240±0.007	-0.007±0.003	0.107±0.007
140.8	-4.9±0.3	-0.3±0.2	0.01±0.01	-1.54±0.02	1.244±0.007	1.240±0.007	-0.007±0.003	0.106±0.007

Table B.220 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.3±0.3	1.0±0.5	-0.74±0.01	-1.22±0.02	0.690±0.007	0.689±0.007	0.012±0.006	0.039±0.004
4.7	-3.1±0.3	0.5±0.5	-0.70±0.01	-1.22±0.02	0.718±0.007	0.717±0.007	0.006±0.006	0.039±0.004
5.7	-3.1±0.3	0.3±0.5	-0.68±0.01	-1.23±0.02	0.739±0.007	0.737±0.007	0.004±0.006	0.040±0.004
6.7	-2.9±0.3	0.3±0.4	-0.65±0.01	-1.22±0.02	0.757±0.007	0.756±0.007	0.004±0.006	0.039±0.004
7.7	-2.7±0.3	0.0±0.4	-0.63±0.01	-1.22±0.02	0.770±0.007	0.769±0.007	0.000±0.006	0.037±0.004
8.7	-2.7±0.3	0.1±0.4	-0.60±0.01	-1.22±0.02	0.787±0.007	0.786±0.007	0.001±0.006	0.037±0.004
9.8	-2.6±0.3	0.0±0.4	-0.59±0.01	-1.22±0.02	0.795±0.007	0.795±0.007	0.000±0.005	0.037±0.004
10.8	-2.4±0.3	0.0±0.4	-0.58±0.01	-1.23±0.02	0.808±0.007	0.807±0.007	0.000±0.005	0.035±0.004
11.8	-2.4±0.3	0.0±0.4	-0.56±0.01	-1.23±0.02	0.820±0.007	0.819±0.007	0.000±0.005	0.035±0.005
12.8	-2.4±0.3	0.0±0.4	-0.54±0.01	-1.23±0.02	0.827±0.007	0.827±0.007	-0.001±0.005	0.034±0.005
13.8	-2.3±0.3	0.0±0.4	-0.53±0.01	-1.23±0.02	0.836±0.006	0.835±0.006	0.000±0.005	0.033±0.005
16.4	-2.3±0.3	0.0±0.3	-0.50±0.01	-1.23±0.02	0.855±0.006	0.855±0.006	0.000±0.005	0.034±0.005
18.9	-2.2±0.3	0.1±0.3	-0.47±0.01	-1.23±0.02	0.873±0.006	0.873±0.006	0.001±0.005	0.033±0.005
21.4	-2.2±0.3	0.1±0.3	-0.44±0.01	-1.23±0.02	0.888±0.006	0.888±0.006	0.002±0.005	0.034±0.005
24.0	-2.1±0.3	0.2±0.3	-0.41±0.01	-1.23±0.02	0.904±0.006	0.903±0.006	0.003±0.005	0.033±0.005
26.5	-2.1±0.3	0.2±0.3	-0.39±0.01	-1.23±0.02	0.915±0.006	0.914±0.006	0.003±0.005	0.033±0.005
29.1	-2.1±0.3	0.1±0.3	-0.37±0.01	-1.23±0.02	0.931±0.006	0.930±0.006	0.002±0.005	0.034±0.005
31.6	-2.1±0.3	0.2±0.3	-0.33±0.01	-1.23±0.02	0.948±0.006	0.948±0.006	0.003±0.005	0.035±0.005
34.1	-2.1±0.3	0.2±0.3	-0.31±0.01	-1.23±0.02	0.956±0.006	0.955±0.006	0.003±0.005	0.035±0.005
36.7	-2.1±0.3	0.2±0.3	-0.28±0.01	-1.22±0.02	0.969±0.006	0.968±0.006	0.004±0.005	0.035±0.005
39.2	-2.0±0.3	0.2±0.3	-0.26±0.01	-1.23±0.02	0.986±0.006	0.986±0.006	0.003±0.004	0.034±0.005
44.3	-2.0±0.3	0.3±0.2	-0.22±0.01	-1.22±0.02	1.002±0.006	1.001±0.006	0.006±0.004	0.035±0.006
49.4	-2.0±0.3	0.4±0.2	-0.19±0.01	-1.23±0.02	1.020±0.006	1.019±0.006	0.007±0.004	0.035±0.006
54.5	-1.9±0.3	0.4±0.2	-0.14±0.01	-1.23±0.02	1.041±0.006	1.040±0.006	0.007±0.004	0.035±0.006
59.5	-1.9±0.3	0.4±0.2	-0.11±0.01	-1.23±0.02	1.056±0.007	1.056±0.006	0.007±0.004	0.035±0.006
64.6	-1.9±0.3	0.4±0.2	-0.07±0.01	-1.22±0.02	1.072±0.007	1.071±0.007	0.007±0.004	0.036±0.006
69.7	-1.8±0.3	0.4±0.2	-0.05±0.01	-1.22±0.02	1.084±0.007	1.084±0.007	0.008±0.004	0.035±0.006
74.8	-1.8±0.3	0.4±0.2	-0.02±0.01	-1.22±0.02	1.093±0.007	1.093±0.007	0.008±0.004	0.035±0.006
79.9	-1.8±0.3	0.4±0.2	-0.01±0.01	-1.22±0.02	1.101±0.007	1.100±0.007	0.009±0.004	0.034±0.006
84.9	-1.7±0.3	0.4±0.2	0.00±0.01	-1.22±0.02	1.104±0.007	1.104±0.007	0.008±0.004	0.033±0.006
90.0	-1.8±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.108±0.007	1.107±0.007	0.008±0.004	0.034±0.006
100.2	-1.7±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.109±0.007	1.109±0.007	0.009±0.004	0.033±0.006
110.3	-1.6±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.110±0.007	1.110±0.007	0.008±0.004	0.032±0.006
120.5	-1.6±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.109±0.007	1.109±0.007	0.008±0.004	0.032±0.006
130.7	-1.6±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.109±0.007	1.108±0.007	0.007±0.004	0.030±0.006
140.8	-1.6±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.109±0.007	1.108±0.007	0.007±0.004	0.031±0.006

Table B.221 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.3±0.3	1.0±0.5	-0.75±0.01	-1.22±0.02	0.686±0.007	0.685±0.007	0.012±0.006	0.039±0.004
4.7	-3.1±0.3	0.5±0.5	-0.70±0.01	-1.21±0.02	0.714±0.007	0.713±0.007	0.006±0.006	0.039±0.004
5.7	-2.9±0.3	0.3±0.5	-0.67±0.01	-1.22±0.02	0.741±0.007	0.740±0.007	0.004±0.006	0.037±0.004
6.7	-2.7±0.3	0.2±0.4	-0.64±0.01	-1.22±0.02	0.759±0.007	0.758±0.007	0.002±0.006	0.036±0.004
7.7	-2.6±0.3	0.1±0.4	-0.61±0.01	-1.22±0.02	0.777±0.007	0.776±0.007	0.001±0.006	0.035±0.004
8.7	-2.5±0.3	0.1±0.4	-0.60±0.01	-1.23±0.02	0.794±0.007	0.794±0.007	0.001±0.005	0.035±0.004
9.8	-2.4±0.3	0.0±0.4	-0.58±0.01	-1.23±0.02	0.803±0.007	0.803±0.007	0.000±0.005	0.034±0.004
10.8	-2.4±0.3	0.0±0.4	-0.56±0.01	-1.22±0.02	0.812±0.007	0.812±0.007	0.000±0.005	0.035±0.004
11.8	-2.3±0.3	0.0±0.4	-0.54±0.01	-1.22±0.02	0.824±0.007	0.823±0.007	0.000±0.005	0.032±0.005
12.8	-2.3±0.3	0.0±0.4	-0.53±0.01	-1.23±0.02	0.835±0.006	0.834±0.006	0.000±0.005	0.033±0.005
13.8	-2.2±0.3	0.0±0.4	-0.52±0.01	-1.23±0.02	0.841±0.006	0.840±0.006	0.001±0.005	0.033±0.005
16.4	-2.2±0.3	0.0±0.3	-0.48±0.01	-1.22±0.02	0.861±0.006	0.860±0.006	0.001±0.005	0.033±0.005
18.9	-2.2±0.3	0.0±0.3	-0.46±0.01	-1.23±0.02	0.878±0.006	0.878±0.006	0.001±0.005	0.033±0.005
21.4	-2.2±0.3	0.1±0.3	-0.43±0.01	-1.22±0.02	0.889±0.006	0.889±0.006	0.001±0.005	0.034±0.005
24.0	-2.2±0.3	0.1±0.3	-0.41±0.01	-1.22±0.02	0.903±0.006	0.902±0.006	0.002±0.005	0.034±0.005
26.5	-2.2±0.3	0.1±0.3	-0.38±0.01	-1.23±0.02	0.922±0.006	0.922±0.006	0.002±0.005	0.035±0.005
29.1	-2.1±0.3	0.2±0.3	-0.35±0.01	-1.22±0.02	0.932±0.006	0.931±0.006	0.003±0.005	0.035±0.005
31.6	-2.1±0.3	0.1±0.3	-0.33±0.01	-1.23±0.02	0.951±0.006	0.950±0.006	0.002±0.005	0.036±0.005
34.1	-2.1±0.3	0.1±0.3	-0.29±0.01	-1.20±0.02	0.955±0.006	0.955±0.006	0.002±0.005	0.036±0.005
36.7	-2.2±0.3	0.3±0.3	-0.28±0.01	-1.21±0.02	0.964±0.006	0.964±0.006	0.004±0.005	0.037±0.005
39.2	-2.2±0.3	0.2±0.3	-0.25±0.01	-1.21±0.02	0.977±0.006	0.977±0.006	0.004±0.004	0.037±0.005
44.3	-2.1±0.3	0.3±0.3	-0.23±0.01	-1.22±0.02	0.996±0.006	0.995±0.006	0.005±0.004	0.037±0.005
49.4	-2.1±0.3	0.4±0.2	-0.18±0.01	-1.21±0.02	1.016±0.006	1.015±0.006	0.006±0.004	0.037±0.006
54.5	-2.1±0.3	0.3±0.2	-0.15±0.01	-1.22±0.02	1.037±0.006	1.037±0.006	0.006±0.004	0.037±0.006
59.5	-2.1±0.3	0.4±0.2	-0.11±0.01	-1.22±0.02	1.054±0.006	1.053±0.006	0.007±0.004	0.038±0.006
64.6	-2.0±0.3	0.4±0.2	-0.07±0.01	-1.21±0.02	1.067±0.007	1.067±0.007	0.007±0.004	0.037±0.006
69.7	-1.9±0.3	0.4±0.2	-0.05±0.01	-1.22±0.02	1.080±0.007	1.080±0.007	0.007±0.004	0.037±0.006
74.8	-1.9±0.3	0.4±0.2	-0.03±0.01	-1.22±0.02	1.091±0.007	1.090±0.007	0.008±0.004	0.037±0.006
79.9	-1.9±0.3	0.4±0.2	-0.01±0.01	-1.21±0.02	1.097±0.007	1.096±0.007	0.008±0.004	0.036±0.006
84.9	-1.9±0.3	0.4±0.2	0.00±0.01	-1.22±0.02	1.103±0.007	1.102±0.007	0.008±0.004	0.037±0.006
90.0	-1.9±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.105±0.007	1.104±0.007	0.008±0.004	0.036±0.006
100.2	-1.9±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.106±0.007	1.106±0.007	0.007±0.004	0.037±0.006
110.3	-1.8±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.107±0.007	1.106±0.007	0.007±0.004	0.035±0.006
120.5	-1.8±0.3	0.3±0.2	0.01±0.01	-1.21±0.02	1.106±0.007	1.105±0.007	0.005±0.004	0.035±0.006
130.7	-1.7±0.3	0.2±0.2	0.01±0.01	-1.21±0.02	1.106±0.007	1.105±0.007	0.004±0.004	0.033±0.006
140.8	-1.6±0.3	0.2±0.2	0.01±0.01	-1.22±0.02	1.106±0.007	1.105±0.007	0.004±0.004	0.032±0.006

Table B.222 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.5±0.3	1.1±0.5	-0.74±0.01	-1.21±0.02	0.683±0.007	0.682±0.007	0.013±0.006	0.042±0.004
4.7	-3.4±0.3	0.5±0.5	-0.71±0.01	-1.21±0.02	0.708±0.007	0.707±0.007	0.006±0.006	0.042±0.004
5.7	-3.2±0.3	0.3±0.5	-0.68±0.01	-1.22±0.02	0.735±0.007	0.734±0.007	0.004±0.006	0.042±0.004
6.7	-3.1±0.3	0.3±0.4	-0.65±0.01	-1.22±0.02	0.756±0.007	0.755±0.007	0.004±0.006	0.041±0.004
7.7	-3.0±0.3	0.1±0.4	-0.63±0.01	-1.21±0.02	0.765±0.007	0.764±0.007	0.001±0.006	0.039±0.004
8.7	-2.9±0.3	0.0±0.4	-0.60±0.01	-1.22±0.02	0.787±0.007	0.786±0.007	0.000±0.006	0.040±0.004
9.8	-2.8±0.3	0.0±0.4	-0.58±0.01	-1.21±0.02	0.796±0.007	0.795±0.007	0.000±0.005	0.039±0.004
10.8	-2.7±0.3	0.0±0.4	-0.57±0.01	-1.23±0.02	0.812±0.007	0.812±0.007	0.000±0.005	0.038±0.004
11.8	-2.7±0.3	0.0±0.4	-0.55±0.01	-1.22±0.02	0.819±0.007	0.818±0.007	0.000±0.005	0.039±0.005
12.8	-2.6±0.3	0.0±0.4	-0.53±0.01	-1.21±0.02	0.827±0.007	0.826±0.007	0.000±0.005	0.038±0.005
13.8	-2.5±0.3	0.1±0.4	-0.53±0.01	-1.22±0.02	0.834±0.006	0.833±0.006	0.001±0.005	0.037±0.005
16.4	-2.5±0.3	0.1±0.3	-0.48±0.01	-1.21±0.02	0.857±0.006	0.856±0.006	0.001±0.005	0.038±0.005
18.9	-2.6±0.3	0.1±0.3	-0.45±0.01	-1.21±0.02	0.873±0.006	0.872±0.006	0.001±0.005	0.040±0.005
21.4	-2.6±0.3	0.1±0.3	-0.42±0.01	-1.21±0.02	0.888±0.006	0.887±0.006	0.001±0.005	0.040±0.005
24.0	-2.4±0.3	0.1±0.3	-0.41±0.01	-1.22±0.02	0.901±0.006	0.901±0.006	0.002±0.005	0.039±0.005
26.5	-2.5±0.3	0.1±0.3	-0.37±0.01	-1.21±0.02	0.914±0.006	0.913±0.006	0.002±0.005	0.040±0.005
29.1	-2.5±0.3	0.2±0.3	-0.36±0.01	-1.22±0.02	0.929±0.006	0.928±0.006	0.004±0.005	0.040±0.005
31.6	-2.5±0.3	0.2±0.3	-0.33±0.01	-1.21±0.02	0.938±0.006	0.937±0.006	0.003±0.005	0.041±0.005
34.1	-2.5±0.3	0.3±0.3	-0.31±0.01	-1.22±0.02	0.952±0.006	0.951±0.006	0.004±0.005	0.041±0.005
36.7	-2.5±0.3	0.3±0.3	-0.28±0.01	-1.21±0.02	0.965±0.006	0.965±0.006	0.006±0.005	0.042±0.005
39.2	-2.5±0.3	0.3±0.3	-0.26±0.01	-1.21±0.02	0.976±0.006	0.975±0.006	0.004±0.004	0.042±0.005
44.3	-2.4±0.3	0.4±0.3	-0.22±0.01	-1.21±0.02	0.995±0.006	0.994±0.006	0.006±0.004	0.043±0.005
49.4	-2.4±0.3	0.4±0.2	-0.17±0.01	-1.21±0.02	1.018±0.006	1.017±0.006	0.007±0.004	0.044±0.006
54.5	-2.4±0.3	0.3±0.2	-0.14±0.01	-1.22±0.02	1.039±0.006	1.038±0.006	0.006±0.004	0.044±0.006
59.5	-2.4±0.3	0.4±0.2	-0.11±0.01	-1.21±0.02	1.051±0.006	1.050±0.006	0.007±0.004	0.044±0.006
64.6	-2.4±0.3	0.4±0.2	-0.08±0.01	-1.22±0.02	1.067±0.007	1.067±0.007	0.007±0.004	0.044±0.006
69.7	-2.4±0.3	0.4±0.2	-0.05±0.01	-1.21±0.02	1.080±0.007	1.079±0.007	0.008±0.004	0.045±0.006
74.8	-2.4±0.3	0.4±0.2	-0.02±0.01	-1.21±0.02	1.087±0.007	1.086±0.007	0.008±0.004	0.045±0.006
79.9	-2.4±0.3	0.4±0.2	-0.01±0.01	-1.21±0.02	1.095±0.007	1.094±0.007	0.008±0.004	0.045±0.006
84.9	-2.4±0.3	0.4±0.2	0.00±0.01	-1.21±0.02	1.099±0.007	1.098±0.007	0.008±0.004	0.045±0.006
90.0	-2.3±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.101±0.007	1.100±0.007	0.007±0.004	0.044±0.006
100.2	-2.3±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.102±0.007	1.101±0.007	0.007±0.004	0.044±0.006
110.3	-2.2±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.103±0.007	1.102±0.007	0.007±0.004	0.043±0.006
120.5	-2.1±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.103±0.007	1.102±0.007	0.007±0.004	0.041±0.006
130.7	-2.1±0.3	0.2±0.2	0.01±0.01	-1.21±0.02	1.103±0.007	1.102±0.007	0.005±0.004	0.040±0.006
140.8	-2.1±0.3	0.2±0.2	0.01±0.01	-1.21±0.02	1.102±0.007	1.102±0.007	0.003±0.004	0.040±0.006

Table B.223 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.9±0.3	1.1±0.6	-0.77±0.01	-1.19±0.02	0.647±0.007	0.645±0.007	0.012±0.007	0.044±0.004
4.7	-3.6±0.3	0.5±0.5	-0.73±0.01	-1.20±0.02	0.680±0.007	0.679±0.007	0.005±0.006	0.042±0.004
5.7	-3.5±0.3	0.4±0.5	-0.70±0.01	-1.20±0.02	0.703±0.007	0.702±0.007	0.004±0.006	0.043±0.004
6.7	-3.4±0.3	0.3±0.5	-0.69±0.01	-1.22±0.02	0.729±0.007	0.727±0.007	0.004±0.006	0.043±0.004
7.7	-3.2±0.3	0.3±0.5	-0.65±0.01	-1.20±0.02	0.743±0.007	0.741±0.007	0.004±0.006	0.043±0.004
8.7	-3.1±0.3	0.3±0.4	-0.63±0.01	-1.21±0.02	0.758±0.007	0.757±0.007	0.004±0.006	0.041±0.004
9.8	-2.9±0.3	0.3±0.4	-0.61±0.01	-1.20±0.02	0.769±0.007	0.768±0.007	0.004±0.006	0.041±0.004
10.8	-2.9±0.3	0.3±0.4	-0.60±0.01	-1.20±0.02	0.780±0.007	0.779±0.007	0.004±0.006	0.039±0.004
11.8	-2.8±0.3	0.3±0.4	-0.59±0.01	-1.21±0.02	0.792±0.007	0.791±0.007	0.005±0.006	0.039±0.004
12.8	-2.8±0.3	0.3±0.4	-0.57±0.01	-1.21±0.02	0.797±0.007	0.796±0.007	0.004±0.005	0.039±0.004
13.8	-2.8±0.3	0.3±0.4	-0.55±0.01	-1.20±0.02	0.811±0.007	0.810±0.007	0.005±0.005	0.039±0.004
16.4	-2.8±0.3	0.4±0.4	-0.52±0.01	-1.20±0.02	0.825±0.007	0.824±0.007	0.005±0.005	0.040±0.005
18.9	-2.8±0.3	0.3±0.4	-0.49±0.01	-1.20±0.02	0.844±0.006	0.843±0.006	0.005±0.005	0.041±0.005
21.4	-2.8±0.3	0.4±0.3	-0.47±0.01	-1.21±0.02	0.864±0.006	0.863±0.006	0.006±0.005	0.041±0.005
24.0	-2.8±0.3	0.4±0.3	-0.42±0.01	-1.19±0.02	0.878±0.006	0.877±0.006	0.006±0.005	0.043±0.005
26.5	-2.8±0.3	0.4±0.3	-0.41±0.01	-1.21±0.02	0.896±0.006	0.894±0.006	0.006±0.005	0.044±0.005
29.1	-2.8±0.3	0.4±0.3	-0.38±0.01	-1.21±0.02	0.913±0.006	0.912±0.006	0.007±0.005	0.044±0.005
31.6	-2.8±0.3	0.4±0.3	-0.35±0.01	-1.20±0.02	0.922±0.006	0.921±0.006	0.007±0.005	0.044±0.005
34.1	-2.8±0.3	0.4±0.3	-0.33±0.01	-1.19±0.02	0.929±0.006	0.928±0.006	0.007±0.005	0.045±0.005
36.7	-2.7±0.3	0.5±0.3	-0.30±0.01	-1.20±0.02	0.950±0.006	0.949±0.006	0.007±0.005	0.045±0.005
39.2	-2.8±0.3	0.4±0.3	-0.29±0.01	-1.21±0.02	0.960±0.006	0.958±0.006	0.007±0.005	0.047±0.005
44.3	-2.8±0.3	0.5±0.3	-0.23±0.01	-1.19±0.02	0.983±0.006	0.982±0.006	0.008±0.004	0.047±0.005
49.4	-2.8±0.3	0.4±0.2	-0.19±0.01	-1.20±0.02	1.004±0.006	1.003±0.006	0.008±0.004	0.049±0.006
54.5	-2.8±0.3	0.4±0.2	-0.15±0.01	-1.20±0.02	1.020±0.006	1.019±0.006	0.008±0.004	0.050±0.006
59.5	-2.7±0.3	0.5±0.2	-0.12±0.01	-1.21±0.02	1.042±0.006	1.041±0.006	0.008±0.004	0.049±0.006
64.6	-2.8±0.3	0.4±0.2	-0.09±0.01	-1.20±0.02	1.055±0.006	1.053±0.006	0.008±0.004	0.051±0.006
69.7	-2.8±0.3	0.5±0.2	-0.05±0.01	-1.19±0.02	1.066±0.007	1.065±0.007	0.009±0.004	0.051±0.006
74.8	-2.8±0.3	0.4±0.2	-0.03±0.01	-1.19±0.02	1.078±0.007	1.077±0.007	0.008±0.004	0.052±0.006
79.9	-2.7±0.3	0.5±0.2	-0.01±0.01	-1.20±0.02	1.089±0.007	1.087±0.007	0.009±0.004	0.052±0.006
84.9	-2.7±0.3	0.4±0.2	0.00±0.01	-1.20±0.02	1.094±0.007	1.093±0.007	0.008±0.004	0.051±0.006
90.0	-2.7±0.3	0.4±0.2	0.00±0.01	-1.20±0.02	1.096±0.007	1.095±0.007	0.008±0.004	0.051±0.006
100.2	-2.6±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.097±0.007	1.096±0.007	0.008±0.004	0.050±0.006
110.3	-2.5±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.097±0.007	0.008±0.004	0.049±0.006
120.5	-2.5±0.3	0.3±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.097±0.007	0.007±0.004	0.049±0.006
130.7	-2.5±0.3	0.2±0.2	0.01±0.01	-1.19±0.02	1.097±0.007	1.096±0.007	0.003±0.004	0.048±0.006
140.8	-2.5±0.3	0.1±0.2	0.01±0.01	-1.19±0.02	1.097±0.007	1.096±0.007	0.001±0.004	0.047±0.006

Table B.224 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.7±0.3	1.1±0.6	-0.80±0.01	-1.19±0.02	0.624±0.007	0.623±0.007	0.012±0.007	0.029±0.003
4.7	-2.4±0.3	0.5±0.6	-0.75±0.01	-1.19±0.02	0.664±0.007	0.663±0.007	0.006±0.007	0.028±0.004
5.7	-2.4±0.3	0.3±0.5	-0.72±0.01	-1.20±0.02	0.690±0.007	0.690±0.007	0.004±0.006	0.029±0.004
6.7	-2.4±0.3	0.3±0.5	-0.69±0.01	-1.21±0.02	0.718±0.007	0.717±0.007	0.004±0.006	0.030±0.004
7.7	-2.3±0.3	0.3±0.5	-0.66±0.01	-1.18±0.02	0.726±0.007	0.725±0.007	0.004±0.006	0.029±0.004
8.7	-2.2±0.3	0.3±0.5	-0.64±0.01	-1.20±0.02	0.746±0.007	0.745±0.007	0.004±0.006	0.029±0.004
9.8	-2.2±0.3	0.3±0.4	-0.62±0.01	-1.19±0.02	0.760±0.007	0.760±0.007	0.004±0.006	0.030±0.004
10.8	-2.2±0.3	0.3±0.4	-0.59±0.01	-1.18±0.02	0.768±0.007	0.767±0.007	0.004±0.006	0.029±0.004
11.8	-2.2±0.3	0.3±0.4	-0.59±0.01	-1.21±0.02	0.786±0.007	0.785±0.007	0.004±0.006	0.030±0.004
12.8	-2.3±0.3	0.4±0.4	-0.57±0.01	-1.20±0.02	0.790±0.007	0.790±0.007	0.005±0.006	0.031±0.004
13.8	-2.3±0.3	0.4±0.4	-0.56±0.01	-1.20±0.02	0.797±0.007	0.796±0.007	0.006±0.006	0.031±0.004
16.4	-2.4±0.3	0.4±0.4	-0.53±0.01	-1.20±0.02	0.818±0.007	0.817±0.007	0.006±0.005	0.034±0.005
18.9	-2.5±0.3	0.4±0.4	-0.51±0.01	-1.19±0.02	0.827±0.007	0.826±0.007	0.006±0.005	0.036±0.005
21.4	-2.7±0.3	0.5±0.3	-0.48±0.01	-1.20±0.02	0.849±0.006	0.848±0.006	0.007±0.005	0.039±0.005
24.0	-2.7±0.3	0.5±0.3	-0.45±0.01	-1.18±0.02	0.860±0.006	0.859±0.006	0.007±0.005	0.041±0.005
26.5	-2.8±0.3	0.6±0.3	-0.43±0.01	-1.20±0.02	0.875±0.006	0.874±0.006	0.009±0.005	0.042±0.005
29.1	-2.9±0.3	0.7±0.3	-0.39±0.01	-1.20±0.02	0.898±0.006	0.897±0.006	0.010±0.005	0.045±0.005
31.6	-2.8±0.3	0.7±0.3	-0.36±0.01	-1.18±0.02	0.906±0.006	0.905±0.006	0.011±0.005	0.045±0.005
34.1	-2.9±0.3	0.7±0.3	-0.34±0.01	-1.18±0.02	0.918±0.006	0.916±0.006	0.011±0.005	0.047±0.005
36.7	-2.9±0.3	0.7±0.3	-0.32±0.01	-1.19±0.02	0.933±0.006	0.932±0.006	0.011±0.005	0.047±0.005
39.2	-2.9±0.3	0.7±0.3	-0.30±0.01	-1.20±0.02	0.950±0.006	0.949±0.006	0.011±0.005	0.048±0.005
44.3	-2.9±0.3	0.7±0.3	-0.24±0.01	-1.18±0.02	0.969±0.006	0.968±0.006	0.012±0.005	0.050±0.005
49.4	-2.9±0.3	0.7±0.3	-0.21±0.01	-1.19±0.02	0.991±0.006	0.989±0.006	0.012±0.004	0.051±0.005
54.5	-2.9±0.3	0.7±0.2	-0.17±0.01	-1.19±0.02	1.010±0.006	1.008±0.006	0.012±0.004	0.051±0.006
59.5	-2.9±0.3	0.7±0.2	-0.14±0.01	-1.19±0.02	1.025±0.006	1.024±0.006	0.012±0.004	0.052±0.006
64.6	-2.8±0.3	0.7±0.2	-0.09±0.01	-1.18±0.02	1.047±0.007	1.046±0.007	0.012±0.004	0.052±0.006
69.7	-2.9±0.3	0.7±0.2	-0.06±0.01	-1.18±0.02	1.055±0.007	1.053±0.007	0.012±0.004	0.053±0.006
74.8	-2.8±0.3	0.6±0.2	-0.04±0.01	-1.19±0.02	1.071±0.007	1.070±0.007	0.012±0.004	0.052±0.006
79.9	-2.8±0.3	0.6±0.2	-0.03±0.01	-1.19±0.02	1.078±0.007	1.076±0.007	0.011±0.004	0.052±0.006
84.9	-2.7±0.3	0.6±0.2	-0.01±0.01	-1.18±0.02	1.085±0.007	1.084±0.007	0.011±0.004	0.052±0.006
90.0	-2.7±0.3	0.6±0.2	0.00±0.01	-1.18±0.02	1.089±0.007	1.088±0.007	0.011±0.004	0.051±0.006
100.2	-2.6±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.090±0.007	0.008±0.004	0.050±0.006
110.3	-2.6±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.090±0.007	0.007±0.004	0.050±0.006
120.5	-2.6±0.3	0.3±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.090±0.007	0.005±0.004	0.049±0.006
130.7	-2.6±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.090±0.007	0.003±0.004	0.049±0.006
140.8	-2.6±0.3	0.1±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.090±0.007	0.002±0.004	0.049±0.006

Table B.225 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.0±0.3	1.2±0.7	-0.81±0.01	-1.18±0.02	0.613±0.008	0.612±0.008	0.012±0.007	0.033±0.003
4.7	-3.0±0.3	0.4±0.6	-0.76±0.01	-1.18±0.02	0.648±0.007	0.647±0.007	0.005±0.007	0.034±0.004
5.7	-2.9±0.3	0.4±0.6	-0.73±0.01	-1.18±0.02	0.669±0.007	0.668±0.007	0.005±0.007	0.034±0.004
6.7	-2.8±0.3	0.3±0.5	-0.70±0.01	-1.18±0.02	0.699±0.007	0.698±0.007	0.004±0.006	0.035±0.004
7.7	-2.8±0.3	0.3±0.5	-0.68±0.01	-1.19±0.02	0.719±0.007	0.718±0.007	0.004±0.006	0.035±0.004
8.7	-2.7±0.3	0.3±0.5	-0.64±0.01	-1.19±0.02	0.737±0.007	0.736±0.007	0.004±0.006	0.035±0.004
9.8	-2.7±0.3	0.4±0.4	-0.63±0.01	-1.19±0.02	0.753±0.007	0.752±0.007	0.005±0.006	0.035±0.004
10.8	-2.7±0.3	0.4±0.4	-0.60±0.01	-1.19±0.02	0.765±0.007	0.764±0.007	0.005±0.006	0.036±0.004
11.8	-2.8±0.3	0.5±0.4	-0.58±0.01	-1.18±0.02	0.773±0.007	0.772±0.007	0.006±0.006	0.037±0.004
12.8	-2.8±0.3	0.5±0.4	-0.57±0.01	-1.18±0.02	0.784±0.007	0.783±0.007	0.006±0.006	0.038±0.004
13.8	-2.9±0.3	0.5±0.4	-0.55±0.01	-1.18±0.02	0.793±0.007	0.792±0.007	0.006±0.006	0.040±0.004
16.4	-3.0±0.3	0.7±0.4	-0.54±0.01	-1.19±0.02	0.809±0.007	0.807±0.007	0.009±0.005	0.042±0.004
18.9	-3.3±0.3	0.8±0.4	-0.51±0.01	-1.19±0.02	0.823±0.007	0.821±0.007	0.011±0.005	0.048±0.005
21.4	-3.5±0.3	0.7±0.4	-0.49±0.01	-1.19±0.02	0.841±0.007	0.839±0.007	0.011±0.005	0.051±0.005
24.0	-3.6±0.3	0.8±0.3	-0.46±0.01	-1.19±0.02	0.855±0.007	0.853±0.007	0.012±0.005	0.054±0.005
26.5	-3.7±0.3	0.8±0.3	-0.43±0.01	-1.19±0.02	0.869±0.006	0.867±0.006	0.012±0.005	0.057±0.005
29.1	-3.8±0.3	0.7±0.3	-0.41±0.01	-1.20±0.02	0.890±0.006	0.888±0.006	0.011±0.005	0.059±0.005
31.6	-3.8±0.3	0.8±0.3	-0.39±0.01	-1.19±0.02	0.898±0.006	0.896±0.006	0.012±0.005	0.060±0.005
34.1	-3.9±0.3	0.8±0.3	-0.36±0.01	-1.19±0.02	0.911±0.006	0.909±0.006	0.013±0.005	0.062±0.005
36.7	-3.9±0.3	0.8±0.3	-0.33±0.01	-1.19±0.02	0.927±0.006	0.925±0.006	0.013±0.005	0.063±0.005
39.2	-3.9±0.3	0.8±0.3	-0.31±0.01	-1.20±0.02	0.940±0.006	0.937±0.006	0.013±0.005	0.064±0.005
44.3	-3.9±0.3	0.8±0.3	-0.25±0.01	-1.18±0.02	0.964±0.006	0.961±0.006	0.013±0.005	0.065±0.005
49.4	-3.9±0.3	0.8±0.3	-0.23±0.01	-1.20±0.02	0.985±0.006	0.983±0.006	0.013±0.004	0.067±0.005
54.5	-3.9±0.3	0.7±0.3	-0.18±0.01	-1.19±0.02	1.005±0.006	1.003±0.006	0.012±0.004	0.068±0.006
59.5	-3.9±0.3	0.7±0.2	-0.14±0.01	-1.19±0.02	1.022±0.007	1.020±0.006	0.012±0.004	0.069±0.006
64.6	-3.8±0.3	0.7±0.2	-0.10±0.01	-1.18±0.02	1.035±0.007	1.032±0.007	0.012±0.004	0.069±0.006
69.7	-3.8±0.3	0.7±0.2	-0.08±0.01	-1.19±0.02	1.056±0.007	1.054±0.007	0.012±0.004	0.070±0.006
74.8	-3.7±0.3	0.7±0.2	-0.05±0.01	-1.18±0.02	1.064±0.007	1.062±0.007	0.012±0.004	0.069±0.006
79.9	-3.7±0.3	0.6±0.2	-0.03±0.01	-1.18±0.02	1.073±0.007	1.071±0.007	0.012±0.004	0.070±0.006
84.9	-3.7±0.3	0.6±0.2	-0.01±0.01	-1.18±0.02	1.081±0.007	1.079±0.007	0.011±0.004	0.070±0.006
90.0	-3.6±0.3	0.5±0.2	0.00±0.01	-1.18±0.02	1.084±0.007	1.082±0.007	0.010±0.004	0.069±0.006
100.2	-3.5±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.085±0.007	0.008±0.004	0.067±0.006
110.3	-3.4±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.088±0.007	1.086±0.007	0.007±0.004	0.065±0.006
120.5	-3.5±0.3	0.3±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.085±0.007	0.005±0.004	0.066±0.006
130.7	-3.4±0.3	0.1±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.085±0.007	0.001±0.004	0.065±0.006
140.8	-3.3±0.3	0.0±0.2	0.01±0.01	-1.18±0.02	1.087±0.007	1.086±0.007	0.000±0.004	0.063±0.006

Table B.226 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.1±0.3	1.2±0.8	-0.83±0.01	-1.16±0.02	0.574±0.008	0.573±0.008	0.012±0.008	0.021±0.003
4.7	-2.3±0.3	0.4±0.7	-0.78±0.01	-1.16±0.02	0.616±0.008	0.615±0.008	0.005±0.007	0.025±0.003
5.7	-2.4±0.3	0.4±0.6	-0.74±0.01	-1.15±0.02	0.637±0.007	0.636±0.007	0.004±0.007	0.026±0.004
6.7	-2.3±0.3	0.3±0.6	-0.71±0.01	-1.16±0.02	0.666±0.007	0.665±0.007	0.003±0.007	0.027±0.004
7.7	-2.3±0.3	0.3±0.5	-0.68±0.01	-1.16±0.02	0.694±0.007	0.694±0.007	0.004±0.006	0.028±0.004
8.7	-2.4±0.3	0.4±0.5	-0.65±0.01	-1.15±0.02	0.713±0.007	0.713±0.007	0.004±0.006	0.030±0.004
9.8	-2.5±0.3	0.5±0.5	-0.61±0.01	-1.15±0.02	0.733±0.007	0.732±0.007	0.006±0.006	0.032±0.004
10.8	-2.5±0.3	0.5±0.5	-0.60±0.01	-1.15±0.02	0.746±0.007	0.745±0.007	0.006±0.006	0.033±0.004
11.8	-2.5±0.3	0.5±0.4	-0.58±0.01	-1.16±0.02	0.764±0.007	0.763±0.007	0.006±0.006	0.034±0.004
12.8	-2.7±0.3	0.6±0.4	-0.56±0.01	-1.16±0.02	0.774±0.007	0.774±0.007	0.009±0.006	0.036±0.004
13.8	-2.8±0.3	0.7±0.4	-0.55±0.01	-1.15±0.02	0.780±0.007	0.779±0.007	0.009±0.006	0.038±0.004
16.4	-3.1±0.3	0.8±0.4	-0.51±0.01	-1.15±0.02	0.799±0.007	0.798±0.007	0.011±0.006	0.043±0.004
18.9	-3.4±0.3	0.8±0.4	-0.49±0.01	-1.15±0.02	0.811±0.007	0.810±0.007	0.012±0.005	0.049±0.004
21.4	-3.7±0.3	0.8±0.4	-0.47±0.01	-1.15±0.02	0.828±0.007	0.826±0.007	0.012±0.005	0.053±0.005
24.0	-3.9±0.3	0.8±0.4	-0.44±0.01	-1.15±0.02	0.845±0.007	0.843±0.007	0.012±0.005	0.057±0.005
26.5	-4.0±0.3	0.8±0.3	-0.42±0.01	-1.16±0.02	0.860±0.007	0.858±0.007	0.013±0.005	0.060±0.005
29.1	-4.1±0.3	0.8±0.3	-0.39±0.01	-1.16±0.02	0.877±0.007	0.874±0.007	0.012±0.005	0.062±0.005
31.6	-4.1±0.3	0.8±0.3	-0.37±0.01	-1.16±0.02	0.890±0.006	0.888±0.006	0.012±0.005	0.063±0.005
34.1	-4.1±0.3	0.9±0.3	-0.33±0.01	-1.16±0.02	0.911±0.006	0.909±0.006	0.013±0.005	0.066±0.005
36.7	-4.1±0.3	0.8±0.3	-0.32±0.01	-1.15±0.02	0.912±0.006	0.910±0.006	0.012±0.005	0.066±0.005
39.2	-4.2±0.3	0.7±0.3	-0.29±0.01	-1.16±0.02	0.930±0.006	0.928±0.006	0.012±0.005	0.067±0.005
44.3	-4.1±0.3	0.8±0.3	-0.26±0.01	-1.16±0.02	0.947±0.006	0.944±0.006	0.014±0.005	0.068±0.005
49.4	-4.2±0.3	0.7±0.3	-0.20±0.01	-1.15±0.02	0.973±0.006	0.970±0.006	0.012±0.005	0.071±0.005
54.5	-4.1±0.3	0.7±0.3	-0.16±0.01	-1.15±0.02	0.995±0.007	0.992±0.006	0.012±0.004	0.071±0.005
59.5	-4.1±0.3	0.7±0.3	-0.12±0.01	-1.14±0.02	1.007±0.007	1.004±0.007	0.012±0.004	0.073±0.006
64.6	-4.1±0.3	0.7±0.2	-0.10±0.01	-1.14±0.02	1.024±0.007	1.021±0.007	0.012±0.004	0.073±0.006
69.7	-4.0±0.3	0.6±0.2	-0.06±0.01	-1.14±0.02	1.039±0.007	1.037±0.007	0.012±0.004	0.073±0.006
74.8	-4.0±0.3	0.6±0.2	-0.04±0.01	-1.14±0.02	1.048±0.007	1.046±0.007	0.010±0.004	0.073±0.006
79.9	-3.9±0.3	0.4±0.2	-0.02±0.01	-1.13±0.02	1.056±0.007	1.053±0.007	0.008±0.004	0.073±0.006
84.9	-3.9±0.3	0.4±0.2	-0.01±0.01	-1.14±0.02	1.064±0.007	1.062±0.007	0.008±0.004	0.073±0.006
90.0	-3.8±0.3	0.4±0.2	0.00±0.01	-1.14±0.02	1.067±0.007	1.065±0.007	0.008±0.004	0.071±0.006
100.2	-3.7±0.3	0.4±0.2	0.01±0.01	-1.14±0.02	1.070±0.007	1.068±0.007	0.007±0.004	0.070±0.006
110.3	-3.7±0.3	0.3±0.2	0.01±0.01	-1.14±0.02	1.071±0.007	1.068±0.007	0.005±0.004	0.070±0.006
120.5	-3.7±0.3	0.1±0.2	0.01±0.01	-1.14±0.02	1.071±0.007	1.068±0.007	0.003±0.004	0.069±0.006
130.7	-3.6±0.3	0.0±0.2	0.01±0.01	-1.14±0.02	1.071±0.007	1.069±0.007	0.000±0.004	0.068±0.006
140.8	-3.5±0.3	-0.1±0.2	0.01±0.01	-1.14±0.02	1.070±0.007	1.068±0.007	-0.002±0.004	0.066±0.006

Table B.227 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.8±0.3	1.2±0.7	-0.81±0.01	-1.15±0.02	0.590±0.008	0.589±0.008	0.012±0.007	0.018±0.003
4.7	-1.9±0.3	0.4±0.6	-0.77±0.01	-1.17±0.02	0.629±0.007	0.629±0.007	0.005±0.007	0.020±0.003
5.7	-2.0±0.3	0.4±0.6	-0.73±0.01	-1.16±0.02	0.655±0.007	0.654±0.007	0.004±0.007	0.023±0.004
6.7	-2.1±0.3	0.3±0.5	-0.70±0.01	-1.17±0.02	0.686±0.007	0.685±0.007	0.003±0.006	0.025±0.004
7.7	-2.3±0.3	0.3±0.5	-0.65±0.01	-1.15±0.02	0.708±0.007	0.707±0.007	0.004±0.006	0.028±0.004
8.7	-2.4±0.3	0.4±0.5	-0.64±0.01	-1.17±0.02	0.730±0.007	0.729±0.007	0.005±0.006	0.030±0.004
9.8	-2.4±0.3	0.4±0.5	-0.62±0.01	-1.17±0.02	0.747±0.007	0.746±0.007	0.005±0.006	0.032±0.004
10.8	-2.5±0.3	0.5±0.4	-0.59±0.01	-1.16±0.02	0.758±0.007	0.757±0.007	0.006±0.006	0.033±0.004
11.8	-2.7±0.3	0.4±0.4	-0.57±0.01	-1.16±0.02	0.770±0.007	0.769±0.007	0.006±0.006	0.036±0.004
12.8	-2.9±0.3	0.5±0.4	-0.55±0.01	-1.16±0.02	0.778±0.007	0.777±0.007	0.007±0.006	0.039±0.004
13.8	-3.0±0.3	0.7±0.4	-0.55±0.01	-1.17±0.02	0.790±0.007	0.789±0.007	0.009±0.006	0.042±0.004
16.4	-3.4±0.3	0.8±0.4	-0.52±0.01	-1.17±0.02	0.806±0.007	0.805±0.007	0.011±0.005	0.047±0.004
18.9	-3.8±0.3	0.8±0.4	-0.49±0.01	-1.16±0.02	0.819±0.007	0.818±0.007	0.011±0.005	0.054±0.005
21.4	-4.0±0.3	0.8±0.4	-0.45±0.01	-1.16±0.02	0.837±0.007	0.835±0.006	0.012±0.005	0.059±0.005
24.0	-4.2±0.3	0.8±0.3	-0.43±0.01	-1.16±0.02	0.854±0.006	0.852±0.006	0.012±0.005	0.062±0.005
26.5	-4.3±0.3	0.8±0.3	-0.42±0.01	-1.17±0.02	0.867±0.006	0.864±0.006	0.012±0.005	0.065±0.005
29.1	-4.4±0.3	0.7±0.3	-0.38±0.01	-1.16±0.02	0.885±0.006	0.882±0.006	0.012±0.005	0.068±0.005
31.6	-4.4±0.3	0.8±0.3	-0.35±0.01	-1.15±0.02	0.894±0.006	0.891±0.006	0.012±0.005	0.069±0.005
34.1	-4.5±0.3	0.8±0.3	-0.33±0.01	-1.15±0.02	0.907±0.006	0.904±0.006	0.012±0.005	0.072±0.005
36.7	-4.5±0.3	0.7±0.3	-0.32±0.01	-1.16±0.02	0.922±0.006	0.919±0.006	0.012±0.005	0.073±0.005
39.2	-4.5±0.3	0.7±0.3	-0.29±0.01	-1.16±0.02	0.933±0.006	0.930±0.006	0.012±0.005	0.074±0.005
44.3	-4.5±0.3	0.7±0.3	-0.24±0.01	-1.16±0.02	0.956±0.006	0.953±0.006	0.012±0.005	0.075±0.005
49.4	-4.5±0.3	0.7±0.3	-0.20±0.01	-1.17±0.02	0.983±0.006	0.980±0.006	0.012±0.004	0.077±0.005
54.5	-4.5±0.3	0.7±0.3	-0.15±0.01	-1.14±0.02	0.993±0.006	0.990±0.006	0.012±0.004	0.078±0.005
59.5	-4.5±0.3	0.7±0.2	-0.12±0.01	-1.14±0.02	1.012±0.006	1.009±0.006	0.012±0.004	0.079±0.006
64.6	-4.4±0.3	0.7±0.2	-0.10±0.01	-1.16±0.02	1.030±0.006	1.027±0.006	0.012±0.004	0.080±0.006
69.7	-4.4±0.3	0.5±0.2	-0.06±0.01	-1.15±0.02	1.045±0.007	1.042±0.006	0.009±0.004	0.081±0.006
74.8	-4.4±0.3	0.5±0.2	-0.04±0.01	-1.15±0.02	1.055±0.007	1.052±0.007	0.009±0.004	0.081±0.006
79.9	-4.3±0.3	0.5±0.2	-0.02±0.01	-1.15±0.02	1.061±0.007	1.058±0.007	0.008±0.004	0.080±0.006
84.9	-4.3±0.3	0.5±0.2	-0.01±0.01	-1.15±0.02	1.069±0.007	1.066±0.007	0.008±0.004	0.079±0.006
90.0	-4.2±0.3	0.4±0.2	0.00±0.01	-1.15±0.02	1.072±0.007	1.069±0.007	0.008±0.004	0.079±0.006
100.2	-4.1±0.3	0.4±0.2	0.01±0.01	-1.15±0.02	1.074±0.007	1.071±0.007	0.007±0.004	0.078±0.006
110.3	-4.1±0.3	0.2±0.2	0.01±0.01	-1.14±0.02	1.074±0.007	1.071±0.007	0.003±0.004	0.077±0.006
120.5	-4.1±0.3	0.0±0.2	0.01±0.01	-1.15±0.02	1.074±0.007	1.072±0.007	0.001±0.004	0.076±0.006
130.7	-4.0±0.3	-0.1±0.2	0.01±0.01	-1.14±0.02	1.073±0.007	1.070±0.007	-0.001±0.004	0.074±0.006
140.8	-3.9±0.3	-0.1±0.2	0.01±0.01	-1.14±0.02	1.074±0.007	1.071±0.007	-0.002±0.004	0.072±0.006

Table B.228 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.1±0.3	1.1±0.7	-0.80±0.01	-1.16±0.02	0.603±0.008	0.602±0.008	0.012±0.007	0.012±0.003
4.7	-1.3±0.3	0.5±0.6	-0.75±0.01	-1.16±0.02	0.641±0.007	0.641±0.007	0.006±0.007	0.014±0.004
5.7	-1.6±0.3	0.4±0.6	-0.72±0.01	-1.17±0.02	0.671±0.007	0.671±0.007	0.004±0.007	0.018±0.004
6.7	-1.8±0.3	0.3±0.5	-0.68±0.01	-1.16±0.02	0.693±0.007	0.693±0.007	0.004±0.006	0.021±0.004
7.7	-2.0±0.3	0.3±0.5	-0.64±0.01	-1.16±0.02	0.717±0.007	0.717±0.007	0.004±0.006	0.025±0.004
8.7	-2.1±0.3	0.3±0.5	-0.62±0.01	-1.16±0.02	0.737±0.007	0.736±0.007	0.004±0.006	0.027±0.004
9.8	-2.2±0.3	0.5±0.4	-0.60±0.01	-1.17±0.02	0.756±0.007	0.755±0.007	0.006±0.006	0.029±0.004
10.8	-2.4±0.3	0.5±0.4	-0.58±0.01	-1.17±0.02	0.770±0.007	0.769±0.007	0.006±0.006	0.032±0.004
11.8	-2.6±0.3	0.5±0.4	-0.56±0.01	-1.17±0.02	0.778±0.007	0.778±0.007	0.006±0.006	0.035±0.004
12.8	-2.7±0.3	0.5±0.4	-0.55±0.01	-1.17±0.02	0.787±0.007	0.786±0.007	0.007±0.006	0.037±0.004
13.8	-2.9±0.3	0.6±0.4	-0.53±0.01	-1.17±0.02	0.798±0.007	0.797±0.007	0.008±0.005	0.040±0.004
16.4	-3.4±0.3	0.7±0.4	-0.50±0.01	-1.16±0.02	0.812±0.007	0.810±0.007	0.010±0.005	0.048±0.004
18.9	-3.8±0.3	0.7±0.4	-0.49±0.01	-1.17±0.02	0.827±0.007	0.826±0.007	0.011±0.005	0.054±0.005
21.4	-4.0±0.3	0.7±0.4	-0.46±0.01	-1.17±0.02	0.842±0.007	0.839±0.006	0.011±0.005	0.059±0.005
24.0	-4.2±0.3	0.7±0.3	-0.42±0.01	-1.16±0.02	0.857±0.006	0.855±0.006	0.011±0.005	0.063±0.005
26.5	-4.4±0.3	0.7±0.3	-0.41±0.01	-1.17±0.02	0.871±0.006	0.869±0.006	0.011±0.005	0.066±0.005
29.1	-4.4±0.3	0.8±0.3	-0.38±0.01	-1.16±0.02	0.883±0.006	0.880±0.006	0.012±0.005	0.068±0.005
31.6	-4.5±0.3	0.7±0.3	-0.36±0.01	-1.17±0.02	0.898±0.006	0.895±0.006	0.011±0.005	0.070±0.005
34.1	-4.5±0.3	0.7±0.3	-0.34±0.01	-1.17±0.02	0.912±0.006	0.909±0.006	0.012±0.005	0.072±0.005
36.7	-4.6±0.3	0.7±0.3	-0.31±0.01	-1.16±0.02	0.925±0.006	0.922±0.006	0.012±0.005	0.074±0.005
39.2	-4.6±0.3	0.7±0.3	-0.28±0.01	-1.16±0.02	0.936±0.006	0.933±0.006	0.011±0.005	0.075±0.005
44.3	-4.6±0.3	0.7±0.3	-0.24±0.01	-1.16±0.02	0.960±0.006	0.957±0.006	0.012±0.005	0.076±0.005
49.4	-4.6±0.3	0.7±0.3	-0.20±0.01	-1.15±0.02	0.976±0.006	0.973±0.006	0.012±0.004	0.078±0.005
54.5	-4.6±0.3	0.7±0.3	-0.16±0.01	-1.16±0.02	0.999±0.006	0.995±0.006	0.012±0.004	0.080±0.006
59.5	-4.5±0.3	0.6±0.2	-0.12±0.01	-1.16±0.02	1.018±0.006	1.014±0.006	0.011±0.004	0.080±0.006
64.6	-4.5±0.3	0.6±0.2	-0.09±0.01	-1.15±0.02	1.030±0.006	1.027±0.006	0.010±0.004	0.080±0.006
69.7	-4.4±0.3	0.5±0.2	-0.06±0.01	-1.15±0.02	1.043±0.007	1.040±0.006	0.009±0.004	0.081±0.006
74.8	-4.4±0.3	0.4±0.2	-0.04±0.01	-1.15±0.02	1.053±0.007	1.050±0.007	0.008±0.004	0.080±0.006
79.9	-4.3±0.3	0.5±0.2	-0.02±0.01	-1.15±0.02	1.064±0.007	1.061±0.007	0.008±0.004	0.080±0.006
84.9	-4.2±0.3	0.4±0.2	-0.01±0.01	-1.15±0.02	1.070±0.007	1.067±0.007	0.007±0.004	0.079±0.006
90.0	-4.2±0.3	0.4±0.2	0.00±0.01	-1.15±0.02	1.072±0.007	1.069±0.007	0.007±0.004	0.079±0.006
100.2	-4.1±0.3	0.3±0.2	0.01±0.01	-1.15±0.02	1.074±0.007	1.071±0.007	0.006±0.004	0.078±0.006
110.3	-4.1±0.3	0.2±0.2	0.01±0.01	-1.14±0.02	1.074±0.007	1.071±0.007	0.003±0.004	0.077±0.006
120.5	-4.1±0.3	0.0±0.2	0.01±0.01	-1.15±0.02	1.074±0.007	1.071±0.007	0.001±0.004	0.076±0.006
130.7	-4.0±0.3	-0.1±0.2	0.01±0.01	-1.14±0.02	1.073±0.007	1.071±0.007	-0.001±0.004	0.075±0.006
140.8	-3.8±0.3	-0.2±0.2	0.01±0.01	-1.15±0.02	1.074±0.007	1.072±0.007	-0.004±0.004	0.071±0.006

Table B.229 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.9±0.3	1.2±0.7	-0.79±0.01	-1.15±0.02	0.602±0.008	0.602±0.008	0.012±0.007	0.010±0.003
4.7	-1.3±0.3	0.5±0.6	-0.74±0.01	-1.15±0.02	0.642±0.007	0.642±0.007	0.005±0.007	0.014±0.004
5.7	-1.5±0.3	0.4±0.6	-0.70±0.01	-1.15±0.02	0.672±0.007	0.671±0.007	0.004±0.007	0.018±0.004
6.7	-1.8±0.3	0.3±0.5	-0.66±0.01	-1.15±0.02	0.698±0.007	0.697±0.007	0.004±0.006	0.022±0.004
7.7	-2.1±0.3	0.3±0.5	-0.63±0.01	-1.15±0.02	0.724±0.007	0.724±0.007	0.004±0.006	0.026±0.004
8.7	-2.2±0.3	0.3±0.5	-0.61±0.01	-1.16±0.02	0.747±0.007	0.746±0.007	0.004±0.006	0.029±0.004
9.8	-2.4±0.3	0.4±0.4	-0.58±0.01	-1.15±0.02	0.753±0.007	0.752±0.007	0.005±0.006	0.031±0.004
10.8	-2.6±0.3	0.4±0.4	-0.56±0.01	-1.15±0.02	0.766±0.007	0.765±0.007	0.006±0.006	0.034±0.004
11.8	-2.7±0.3	0.4±0.4	-0.54±0.01	-1.15±0.02	0.779±0.007	0.778±0.007	0.006±0.006	0.037±0.004
12.8	-2.9±0.3	0.5±0.4	-0.53±0.01	-1.14±0.02	0.783±0.007	0.782±0.007	0.006±0.006	0.040±0.004
13.8	-3.1±0.3	0.5±0.4	-0.52±0.01	-1.15±0.02	0.794±0.007	0.793±0.007	0.007±0.006	0.043±0.004
16.4	-3.6±0.3	0.6±0.4	-0.49±0.01	-1.15±0.02	0.809±0.007	0.807±0.007	0.008±0.005	0.051±0.004
18.9	-4.0±0.3	0.7±0.4	-0.47±0.01	-1.15±0.02	0.823±0.007	0.821±0.007	0.010±0.005	0.058±0.005
21.4	-4.3±0.3	0.7±0.4	-0.45±0.01	-1.15±0.02	0.834±0.007	0.831±0.007	0.011±0.005	0.063±0.005
24.0	-4.5±0.3	0.7±0.3	-0.42±0.01	-1.15±0.02	0.851±0.007	0.848±0.007	0.011±0.005	0.067±0.005
26.5	-4.7±0.3	0.7±0.3	-0.40±0.01	-1.15±0.02	0.865±0.006	0.862±0.006	0.011±0.005	0.071±0.005
29.1	-4.8±0.3	0.7±0.3	-0.36±0.01	-1.13±0.02	0.878±0.006	0.875±0.006	0.011±0.005	0.074±0.005
31.6	-4.8±0.3	0.8±0.3	-0.36±0.01	-1.15±0.02	0.891±0.006	0.888±0.006	0.012±0.005	0.075±0.005
34.1	-4.9±0.3	0.7±0.3	-0.33±0.01	-1.15±0.02	0.903±0.006	0.900±0.006	0.012±0.005	0.078±0.005
36.7	-5.0±0.3	0.7±0.3	-0.31±0.01	-1.15±0.02	0.919±0.006	0.915±0.006	0.011±0.005	0.080±0.005
39.2	-4.9±0.3	0.7±0.3	-0.28±0.01	-1.14±0.02	0.929±0.006	0.925±0.006	0.012±0.005	0.080±0.005
44.3	-4.9±0.3	0.7±0.3	-0.23±0.01	-1.12±0.02	0.946±0.006	0.942±0.006	0.011±0.005	0.082±0.005
49.4	-4.9±0.3	0.7±0.3	-0.19±0.01	-1.13±0.02	0.970±0.006	0.966±0.006	0.011±0.005	0.084±0.005
54.5	-4.9±0.3	0.6±0.3	-0.16±0.01	-1.14±0.02	0.992±0.006	0.988±0.006	0.011±0.004	0.086±0.005
59.5	-4.9±0.3	0.6±0.2	-0.12±0.01	-1.14±0.02	1.008±0.006	1.004±0.006	0.010±0.004	0.086±0.006
64.6	-4.9±0.3	0.5±0.2	-0.09±0.01	-1.14±0.02	1.021±0.006	1.017±0.006	0.008±0.004	0.087±0.006
69.7	-4.8±0.3	0.5±0.2	-0.06±0.01	-1.14±0.02	1.038±0.007	1.034±0.007	0.008±0.004	0.087±0.006
74.8	-4.8±0.3	0.4±0.2	-0.03±0.01	-1.13±0.02	1.047±0.007	1.043±0.007	0.008±0.004	0.087±0.006
79.9	-4.7±0.3	0.4±0.2	-0.02±0.01	-1.13±0.02	1.056±0.007	1.052±0.007	0.008±0.004	0.087±0.006
84.9	-4.7±0.3	0.4±0.2	0.00±0.01	-1.12±0.02	1.059±0.007	1.056±0.007	0.007±0.004	0.086±0.006
90.0	-4.6±0.3	0.4±0.2	0.00±0.01	-1.13±0.02	1.063±0.007	1.060±0.007	0.007±0.004	0.084±0.006
100.2	-4.4±0.3	0.3±0.2	0.01±0.01	-1.12±0.02	1.064±0.007	1.061±0.007	0.006±0.004	0.083±0.006
110.3	-4.3±0.3	0.1±0.2	0.01±0.01	-1.12±0.02	1.065±0.007	1.062±0.007	0.002±0.004	0.081±0.006
120.5	-4.4±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.063±0.007	1.060±0.007	-0.001±0.004	0.082±0.006
130.7	-4.2±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.063±0.007	1.061±0.007	-0.002±0.004	0.078±0.006
140.8	-4.1±0.3	-0.2±0.2	0.01±0.01	-1.12±0.02	1.064±0.007	1.061±0.007	-0.004±0.004	0.076±0.006

Table B.230 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.7±0.3	1.1±0.7	-0.76±0.01	-1.13±0.02	0.603±0.008	0.602±0.008	0.012±0.007	0.008±0.003
4.7	-1.1±0.3	0.5±0.6	-0.72±0.01	-1.13±0.02	0.639±0.007	0.639±0.007	0.005±0.007	0.013±0.004
5.7	-1.4±0.3	0.3±0.6	-0.68±0.01	-1.14±0.02	0.674±0.007	0.674±0.007	0.003±0.007	0.016±0.004
6.7	-1.6±0.3	0.3±0.5	-0.63±0.01	-1.13±0.02	0.705±0.007	0.705±0.007	0.004±0.006	0.020±0.004
7.7	-1.9±0.3	0.3±0.5	-0.61±0.01	-1.13±0.02	0.721±0.007	0.720±0.007	0.004±0.006	0.024±0.004
8.7	-2.1±0.3	0.3±0.5	-0.59±0.01	-1.15±0.02	0.748±0.007	0.748±0.007	0.004±0.006	0.027±0.004
9.8	-2.3±0.3	0.3±0.4	-0.56±0.01	-1.13±0.02	0.757±0.007	0.757±0.007	0.004±0.006	0.031±0.004
10.8	-2.6±0.3	0.4±0.4	-0.54±0.01	-1.14±0.02	0.775±0.007	0.774±0.007	0.005±0.006	0.035±0.004
11.8	-2.8±0.3	0.5±0.4	-0.53±0.01	-1.13±0.02	0.780±0.007	0.779±0.007	0.006±0.006	0.038±0.004
12.8	-3.0±0.3	0.5±0.4	-0.52±0.01	-1.13±0.02	0.785±0.007	0.784±0.007	0.006±0.006	0.040±0.004
13.8	-3.2±0.3	0.4±0.4	-0.51±0.01	-1.14±0.02	0.795±0.007	0.793±0.007	0.006±0.006	0.044±0.004
16.4	-3.6±0.3	0.5±0.4	-0.47±0.01	-1.13±0.02	0.808±0.007	0.807±0.007	0.006±0.005	0.051±0.004
18.9	-4.1±0.3	0.5±0.4	-0.46±0.01	-1.13±0.02	0.819±0.007	0.817±0.007	0.007±0.005	0.059±0.005
21.4	-4.4±0.3	0.5±0.4	-0.44±0.01	-1.13±0.02	0.831±0.007	0.828±0.007	0.008±0.005	0.064±0.005
24.0	-4.6±0.3	0.5±0.3	-0.41±0.01	-1.14±0.02	0.852±0.007	0.849±0.007	0.007±0.005	0.068±0.005
26.5	-4.8±0.3	0.6±0.3	-0.39±0.01	-1.13±0.02	0.862±0.007	0.859±0.006	0.009±0.005	0.071±0.005
29.1	-4.9±0.3	0.5±0.3	-0.37±0.01	-1.13±0.02	0.873±0.006	0.870±0.006	0.008±0.005	0.074±0.005
31.6	-4.9±0.3	0.5±0.3	-0.35±0.01	-1.13±0.02	0.885±0.006	0.882±0.006	0.007±0.005	0.076±0.005
34.1	-5.0±0.3	0.6±0.3	-0.32±0.01	-1.13±0.02	0.901±0.006	0.897±0.006	0.010±0.005	0.078±0.005
36.7	-5.1±0.3	0.5±0.3	-0.30±0.01	-1.13±0.02	0.913±0.006	0.909±0.006	0.008±0.005	0.080±0.005
39.2	-5.1±0.3	0.6±0.3	-0.28±0.01	-1.13±0.02	0.921±0.006	0.917±0.006	0.010±0.005	0.081±0.005
44.3	-5.1±0.3	0.5±0.3	-0.23±0.01	-1.12±0.02	0.943±0.006	0.939±0.006	0.008±0.005	0.084±0.005
49.4	-5.1±0.3	0.5±0.3	-0.20±0.01	-1.12±0.02	0.962±0.006	0.958±0.006	0.008±0.005	0.085±0.005
54.5	-5.1±0.3	0.4±0.3	-0.14±0.01	-1.11±0.02	0.981±0.006	0.977±0.006	0.007±0.004	0.086±0.005
59.5	-5.0±0.3	0.4±0.3	-0.11±0.01	-1.10±0.02	0.994±0.006	0.990±0.006	0.008±0.004	0.087±0.005
64.6	-4.9±0.3	0.4±0.2	-0.09±0.01	-1.11±0.02	1.013±0.007	1.009±0.006	0.008±0.004	0.087±0.006
69.7	-4.9±0.3	0.4±0.2	-0.06±0.01	-1.11±0.02	1.025±0.007	1.021±0.007	0.008±0.004	0.088±0.006
74.8	-4.9±0.3	0.4±0.2	-0.04±0.01	-1.11±0.02	1.036±0.007	1.032±0.007	0.007±0.004	0.088±0.006
79.9	-4.8±0.3	0.4±0.2	-0.02±0.01	-1.10±0.02	1.043±0.007	1.039±0.007	0.007±0.004	0.087±0.006
84.9	-4.8±0.3	0.4±0.2	0.00±0.01	-1.10±0.02	1.047±0.007	1.044±0.007	0.007±0.004	0.087±0.006
90.0	-4.6±0.3	0.3±0.2	0.00±0.01	-1.10±0.02	1.053±0.007	1.049±0.007	0.005±0.004	0.085±0.006
100.2	-4.6±0.3	0.1±0.2	0.01±0.01	-1.10±0.02	1.054±0.007	1.051±0.007	0.002±0.004	0.084±0.006
110.3	-4.5±0.3	0.0±0.2	0.01±0.01	-1.10±0.02	1.053±0.007	1.050±0.007	0.001±0.004	0.082±0.006
120.5	-4.4±0.3	-0.1±0.2	0.01±0.01	-1.10±0.02	1.054±0.007	1.050±0.007	-0.001±0.004	0.081±0.006
130.7	-4.4±0.3	-0.1±0.2	0.01±0.01	-1.10±0.02	1.053±0.007	1.050±0.007	-0.001±0.004	0.080±0.006
140.8	-4.2±0.3	-0.3±0.2	0.01±0.01	-1.10±0.02	1.054±0.007	1.051±0.007	-0.005±0.004	0.077±0.006

Table B.231 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.6±0.3	1.2±0.7	-0.74±0.01	-1.12±0.02	0.614±0.007	0.614±0.007	0.013±0.007	0.006±0.003
4.7	-1.1±0.3	0.4±0.6	-0.69±0.01	-1.12±0.02	0.654±0.007	0.654±0.007	0.005±0.007	0.012±0.004
5.7	-1.3±0.3	0.4±0.5	-0.65±0.01	-1.11±0.02	0.680±0.007	0.680±0.007	0.005±0.006	0.015±0.004
6.7	-1.7±0.3	0.3±0.5	-0.61±0.01	-1.13±0.02	0.718±0.007	0.718±0.007	0.004±0.006	0.022±0.004
7.7	-1.9±0.3	0.3±0.5	-0.58±0.01	-1.13±0.02	0.738±0.007	0.737±0.007	0.004±0.006	0.025±0.004
8.7	-2.2±0.3	0.3±0.4	-0.56±0.01	-1.14±0.02	0.761±0.007	0.761±0.007	0.005±0.006	0.030±0.004
9.8	-2.4±0.3	0.4±0.4	-0.53±0.01	-1.14±0.02	0.776±0.007	0.776±0.007	0.005±0.006	0.033±0.004
10.8	-2.7±0.3	0.4±0.4	-0.52±0.01	-1.13±0.02	0.782±0.007	0.781±0.007	0.006±0.006	0.037±0.004
11.8	-2.9±0.3	0.5±0.4	-0.50±0.01	-1.13±0.02	0.792±0.007	0.791±0.007	0.006±0.006	0.041±0.004
12.8	-3.2±0.3	0.4±0.4	-0.49±0.01	-1.12±0.02	0.793±0.007	0.792±0.007	0.006±0.006	0.044±0.004
13.8	-3.4±0.3	0.5±0.4	-0.48±0.01	-1.13±0.02	0.807±0.007	0.805±0.007	0.007±0.005	0.048±0.004
16.4	-3.9±0.3	0.5±0.4	-0.46±0.01	-1.14±0.02	0.820±0.007	0.818±0.007	0.007±0.005	0.056±0.005
18.9	-4.2±0.3	0.5±0.4	-0.44±0.01	-1.13±0.02	0.831±0.007	0.829±0.006	0.007±0.005	0.061±0.005
21.4	-4.6±0.3	0.5±0.4	-0.42±0.01	-1.13±0.02	0.840±0.006	0.837±0.006	0.007±0.005	0.067±0.005
24.0	-4.8±0.3	0.5±0.3	-0.40±0.01	-1.14±0.02	0.859±0.006	0.856±0.006	0.007±0.005	0.072±0.005
26.5	-4.9±0.3	0.5±0.3	-0.38±0.01	-1.14±0.02	0.869±0.006	0.866±0.006	0.007±0.005	0.075±0.005
29.1	-5.0±0.3	0.4±0.3	-0.35±0.01	-1.12±0.02	0.879±0.006	0.875±0.006	0.007±0.005	0.077±0.005
31.6	-5.1±0.3	0.4±0.3	-0.32±0.01	-1.12±0.02	0.893±0.006	0.890±0.006	0.007±0.005	0.080±0.005
34.1	-5.2±0.3	0.4±0.3	-0.30±0.01	-1.12±0.02	0.907±0.006	0.903±0.006	0.007±0.005	0.082±0.005
36.7	-5.2±0.3	0.4±0.3	-0.28±0.01	-1.11±0.02	0.913±0.006	0.909±0.006	0.007±0.005	0.083±0.005
39.2	-5.2±0.3	0.4±0.3	-0.26±0.01	-1.13±0.02	0.930±0.006	0.926±0.006	0.007±0.005	0.085±0.005
44.3	-5.3±0.3	0.4±0.3	-0.22±0.01	-1.13±0.02	0.951±0.006	0.947±0.006	0.007±0.005	0.087±0.005
49.4	-5.3±0.3	0.4±0.3	-0.17±0.01	-1.11±0.02	0.967±0.006	0.963±0.006	0.007±0.005	0.089±0.005
54.5	-5.3±0.3	0.4±0.3	-0.14±0.01	-1.11±0.02	0.985±0.006	0.980±0.006	0.007±0.004	0.091±0.005
59.5	-5.3±0.3	0.4±0.2	-0.10±0.01	-1.11±0.02	1.004±0.006	1.000±0.006	0.007±0.004	0.092±0.006
64.6	-5.2±0.3	0.4±0.2	-0.07±0.01	-1.10±0.02	1.015±0.006	1.011±0.006	0.006±0.004	0.092±0.006
69.7	-5.1±0.3	0.4±0.2	-0.05±0.01	-1.11±0.02	1.028±0.006	1.024±0.006	0.007±0.004	0.092±0.006
74.8	-5.0±0.3	0.2±0.2	-0.03±0.01	-1.11±0.02	1.040±0.006	1.036±0.006	0.004±0.004	0.091±0.006
79.9	-5.0±0.3	0.2±0.2	-0.01±0.01	-1.10±0.02	1.046±0.006	1.042±0.006	0.004±0.004	0.091±0.006
84.9	-4.9±0.3	0.2±0.2	0.00±0.01	-1.10±0.02	1.050±0.007	1.047±0.007	0.003±0.004	0.090±0.006
90.0	-4.8±0.3	0.2±0.2	0.01±0.01	-1.10±0.02	1.053±0.007	1.049±0.007	0.003±0.004	0.089±0.006
100.2	-4.7±0.3	0.0±0.2	0.01±0.01	-1.10±0.02	1.053±0.007	1.050±0.007	-0.001±0.004	0.087±0.006
110.3	-4.6±0.3	-0.1±0.2	0.01±0.01	-1.10±0.02	1.054±0.007	1.051±0.007	-0.001±0.004	0.085±0.006
120.5	-4.5±0.3	-0.1±0.2	0.01±0.01	-1.10±0.02	1.054±0.007	1.050±0.007	-0.001±0.004	0.083±0.006
130.7	-4.4±0.3	-0.3±0.2	0.01±0.01	-1.10±0.02	1.054±0.007	1.051±0.007	-0.005±0.004	0.081±0.006
140.8	-4.4±0.3	-0.3±0.2	0.01±0.01	-1.10±0.02	1.054±0.007	1.051±0.007	-0.005±0.004	0.081±0.006

Table B.232 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-38 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.4±0.3	1.1±0.6	-0.72±0.01	-1.13±0.02	0.639±0.007	0.639±0.007	0.013±0.007	0.004±0.004
4.7	-0.9±0.3	0.5±0.5	-0.67±0.01	-1.13±0.02	0.681±0.007	0.681±0.007	0.006±0.006	0.011±0.004
5.7	-1.4±0.3	0.4±0.5	-0.62±0.01	-1.12±0.02	0.706±0.007	0.706±0.007	0.005±0.006	0.018±0.004
6.7	-1.8±0.3	0.3±0.5	-0.59±0.01	-1.13±0.02	0.733±0.007	0.733±0.007	0.004±0.006	0.023±0.004
7.7	-2.1±0.3	0.4±0.4	-0.55±0.01	-1.12±0.02	0.753±0.007	0.753±0.007	0.005±0.006	0.028±0.004
8.7	-2.4±0.3	0.4±0.4	-0.54±0.01	-1.14±0.02	0.773±0.007	0.772±0.007	0.005±0.006	0.033±0.004
9.8	-2.7±0.3	0.4±0.4	-0.51±0.01	-1.14±0.02	0.790±0.007	0.789±0.007	0.006±0.006	0.037±0.004
10.8	-3.0±0.3	0.4±0.4	-0.49±0.01	-1.12±0.02	0.797±0.007	0.796±0.007	0.006±0.005	0.042±0.004
11.8	-3.2±0.3	0.4±0.4	-0.48±0.01	-1.12±0.02	0.804±0.007	0.802±0.007	0.006±0.005	0.045±0.004
12.8	-3.4±0.3	0.5±0.4	-0.47±0.01	-1.12±0.02	0.811±0.007	0.810±0.007	0.007±0.005	0.049±0.004
13.8	-3.7±0.3	0.4±0.4	-0.46±0.01	-1.12±0.02	0.815±0.007	0.813±0.007	0.006±0.005	0.052±0.005
16.4	-4.2±0.3	0.4±0.4	-0.44±0.01	-1.13±0.02	0.828±0.007	0.826±0.006	0.006±0.005	0.060±0.005
18.9	-4.6±0.3	0.4±0.4	-0.43±0.01	-1.13±0.02	0.838±0.006	0.836±0.006	0.007±0.005	0.067±0.005
21.4	-4.8±0.3	0.4±0.3	-0.40±0.01	-1.13±0.02	0.853±0.006	0.850±0.006	0.006±0.005	0.071±0.005
24.0	-5.1±0.3	0.4±0.3	-0.38±0.01	-1.12±0.02	0.861±0.006	0.858±0.006	0.005±0.005	0.076±0.005
26.5	-5.2±0.3	0.3±0.3	-0.36±0.01	-1.12±0.02	0.871±0.006	0.868±0.006	0.005±0.005	0.079±0.005
29.1	-5.3±0.3	0.4±0.3	-0.34±0.01	-1.12±0.02	0.881±0.006	0.877±0.006	0.005±0.005	0.081±0.005
31.6	-5.4±0.3	0.4±0.3	-0.32±0.01	-1.13±0.02	0.900±0.006	0.896±0.006	0.006±0.005	0.085±0.005
34.1	-5.5±0.3	0.4±0.3	-0.29±0.01	-1.12±0.02	0.908±0.006	0.904±0.006	0.006±0.005	0.087±0.005
36.7	-5.5±0.3	0.4±0.3	-0.27±0.01	-1.11±0.02	0.916±0.006	0.912±0.006	0.006±0.005	0.088±0.005
39.2	-5.5±0.3	0.3±0.3	-0.26±0.01	-1.12±0.02	0.929±0.006	0.925±0.006	0.005±0.005	0.088±0.005
44.3	-5.6±0.3	0.3±0.3	-0.21±0.01	-1.12±0.02	0.952±0.006	0.947±0.006	0.005±0.005	0.092±0.005
49.4	-5.6±0.3	0.2±0.3	-0.17±0.01	-1.11±0.02	0.969±0.006	0.964±0.006	0.003±0.004	0.094±0.005
54.5	-5.5±0.3	0.2±0.3	-0.13±0.01	-1.11±0.02	0.987±0.006	0.983±0.006	0.003±0.004	0.095±0.005
59.5	-5.5±0.3	0.2±0.3	-0.10±0.01	-1.10±0.02	0.999±0.006	0.994±0.006	0.003±0.004	0.096±0.006
64.6	-5.5±0.3	0.1±0.2	-0.07±0.01	-1.10±0.02	1.017±0.006	1.012±0.006	0.003±0.004	0.097±0.006
69.7	-5.4±0.3	0.1±0.2	-0.05±0.01	-1.10±0.02	1.024±0.006	1.019±0.006	0.003±0.004	0.096±0.006
74.8	-5.3±0.3	0.1±0.2	-0.02±0.01	-1.09±0.02	1.034±0.006	1.029±0.006	0.002±0.004	0.095±0.006
79.9	-5.2±0.3	0.1±0.2	-0.01±0.01	-1.09±0.02	1.042±0.006	1.037±0.006	0.001±0.004	0.095±0.006
84.9	-5.2±0.3	0.0±0.2	0.00±0.01	-1.09±0.02	1.046±0.006	1.041±0.006	-0.001±0.004	0.094±0.006
90.0	-5.1±0.3	-0.1±0.2	0.00±0.01	-1.09±0.02	1.047±0.006	1.043±0.006	-0.001±0.004	0.093±0.006
100.2	-5.0±0.3	-0.1±0.2	0.01±0.01	-1.09±0.02	1.049±0.006	1.045±0.006	-0.001±0.004	0.091±0.006
110.3	-4.9±0.3	-0.1±0.2	0.01±0.01	-1.09±0.02	1.049±0.006	1.045±0.006	-0.001±0.004	0.089±0.006
120.5	-4.8±0.3	-0.2±0.2	0.01±0.01	-1.09±0.02	1.049±0.006	1.045±0.006	-0.003±0.004	0.088±0.006
130.7	-4.7±0.3	-0.3±0.2	0.01±0.01	-1.09±0.02	1.050±0.006	1.046±0.006	-0.006±0.004	0.085±0.006
140.8	-4.6±0.3	-0.3±0.2	0.01±0.01	-1.09±0.02	1.050±0.006	1.046±0.006	-0.005±0.004	0.084±0.006

Table B.233 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-32 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.4±0.3	1.2±0.6	-0.68±0.01	-1.12±0.02	0.659±0.007	0.659±0.007	0.013±0.007	0.004±0.004
4.7	-1.0±0.3	0.4±0.5	-0.62±0.01	-1.10±0.02	0.690±0.007	0.690±0.007	0.005±0.006	0.012±0.004
5.7	-1.6±0.3	0.3±0.5	-0.59±0.01	-1.11±0.02	0.726±0.007	0.725±0.007	0.004±0.006	0.020±0.004
6.7	-2.0±0.3	0.4±0.4	-0.54±0.01	-1.10±0.02	0.751±0.007	0.750±0.007	0.005±0.006	0.026±0.004
7.7	-2.5±0.3	0.3±0.4	-0.51±0.01	-1.10±0.02	0.767±0.007	0.766±0.007	0.004±0.006	0.033±0.004
8.7	-2.8±0.3	0.3±0.4	-0.50±0.01	-1.11±0.02	0.783±0.007	0.783±0.007	0.004±0.006	0.038±0.004
9.8	-3.1±0.3	0.3±0.4	-0.48±0.01	-1.12±0.02	0.799±0.007	0.798±0.007	0.004±0.005	0.043±0.004
10.8	-3.4±0.3	0.3±0.4	-0.46±0.01	-1.11±0.02	0.809±0.007	0.808±0.007	0.004±0.005	0.047±0.004
11.8	-3.7±0.3	0.3±0.4	-0.46±0.01	-1.13±0.02	0.820±0.007	0.819±0.007	0.004±0.005	0.053±0.005
12.8	-3.9±0.3	0.3±0.4	-0.46±0.01	-1.13±0.02	0.820±0.007	0.818±0.007	0.004±0.005	0.056±0.005
13.8	-4.1±0.3	0.2±0.4	-0.44±0.01	-1.12±0.02	0.829±0.006	0.827±0.006	0.003±0.005	0.059±0.005
16.4	-4.6±0.3	0.2±0.4	-0.41±0.01	-1.12±0.02	0.839±0.006	0.836±0.006	0.002±0.005	0.067±0.005
18.9	-4.9±0.3	0.1±0.4	-0.40±0.01	-1.11±0.02	0.844±0.006	0.841±0.006	0.001±0.005	0.073±0.005
21.4	-5.1±0.3	0.0±0.3	-0.39±0.01	-1.12±0.02	0.856±0.006	0.853±0.006	0.001±0.005	0.077±0.005
24.0	-5.3±0.3	0.0±0.3	-0.36±0.01	-1.11±0.02	0.865±0.006	0.861±0.006	0.000±0.005	0.080±0.005
26.5	-5.4±0.3	0.0±0.3	-0.34±0.01	-1.11±0.02	0.878±0.006	0.874±0.006	0.001±0.005	0.083±0.005
29.1	-5.6±0.3	0.0±0.3	-0.32±0.01	-1.11±0.02	0.887±0.006	0.883±0.006	0.000±0.005	0.086±0.005
31.6	-5.7±0.3	0.0±0.3	-0.30±0.01	-1.11±0.02	0.897±0.006	0.892±0.006	0.001±0.005	0.088±0.005
34.1	-5.8±0.3	0.0±0.3	-0.29±0.01	-1.10±0.02	0.903±0.006	0.898±0.006	0.000±0.005	0.091±0.005
36.7	-5.7±0.3	0.0±0.3	-0.26±0.01	-1.10±0.02	0.915±0.006	0.911±0.006	0.001±0.005	0.091±0.005
39.2	-5.8±0.3	0.0±0.3	-0.24±0.01	-1.10±0.02	0.924±0.006	0.919±0.006	0.001±0.005	0.094±0.005
44.3	-5.8±0.3	0.0±0.3	-0.20±0.01	-1.09±0.02	0.946±0.006	0.941±0.006	-0.001±0.005	0.096±0.005
49.4	-5.8±0.3	0.0±0.3	-0.16±0.01	-1.09±0.02	0.960±0.006	0.955±0.006	-0.001±0.005	0.097±0.005
54.5	-5.8±0.3	-0.1±0.3	-0.13±0.01	-1.09±0.02	0.979±0.006	0.974±0.006	-0.001±0.004	0.099±0.005
59.5	-5.8±0.3	-0.1±0.3	-0.09±0.01	-1.08±0.02	0.993±0.006	0.988±0.006	-0.002±0.004	0.100±0.005
64.6	-5.7±0.3	-0.1±0.2	-0.07±0.01	-1.08±0.02	1.006±0.006	1.001±0.006	-0.002±0.004	0.100±0.006
69.7	-5.7±0.3	-0.1±0.2	-0.04±0.01	-1.08±0.02	1.017±0.006	1.012±0.006	-0.002±0.004	0.100±0.006
74.8	-5.6±0.3	-0.1±0.2	-0.03±0.01	-1.09±0.02	1.026±0.006	1.021±0.006	-0.002±0.004	0.100±0.006
79.9	-5.5±0.3	-0.1±0.2	-0.01±0.01	-1.08±0.02	1.034±0.006	1.030±0.006	-0.002±0.004	0.099±0.006
84.9	-5.4±0.3	-0.2±0.2	0.00±0.01	-1.08±0.02	1.038±0.006	1.033±0.006	-0.003±0.004	0.098±0.006
90.0	-5.3±0.3	-0.2±0.2	0.01±0.01	-1.07±0.02	1.039±0.006	1.035±0.006	-0.004±0.004	0.097±0.006
100.2	-5.2±0.3	-0.3±0.2	0.01±0.01	-1.07±0.02	1.041±0.006	1.036±0.006	-0.005±0.004	0.094±0.006
110.3	-5.1±0.3	-0.3±0.2	0.01±0.01	-1.07±0.02	1.041±0.006	1.037±0.006	-0.006±0.004	0.092±0.006
120.5	-5.1±0.3	-0.3±0.2	0.01±0.01	-1.07±0.02	1.041±0.006	1.037±0.006	-0.006±0.004	0.092±0.006
130.7	-4.9±0.3	-0.4±0.2	0.01±0.01	-1.08±0.02	1.041±0.006	1.037±0.006	-0.008±0.004	0.089±0.006
140.8	-4.8±0.3	-0.5±0.2	0.01±0.01	-1.07±0.02	1.041±0.006	1.037±0.006	-0.010±0.004	0.088±0.006

Table B.234 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-25 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.0±0.3	1.0±0.5	-0.63±0.01	-1.10±0.02	0.681±0.007	0.680±0.007	0.012±0.006	0.012±0.004
4.7	-1.7±0.3	0.3±0.5	-0.56±0.01	-1.10±0.02	0.732±0.007	0.732±0.007	0.004±0.006	0.022±0.004
5.7	-2.3±0.3	-0.1±0.4	-0.51±0.01	-1.09±0.02	0.763±0.007	0.762±0.007	-0.001±0.006	0.031±0.004
6.7	-2.8±0.3	-0.1±0.4	-0.50±0.01	-1.11±0.02	0.784±0.007	0.783±0.007	-0.002±0.006	0.038±0.004
7.7	-3.1±0.3	-0.4±0.4	-0.47±0.01	-1.11±0.02	0.799±0.007	0.798±0.007	-0.005±0.005	0.044±0.004
8.7	-3.4±0.3	-0.4±0.4	-0.45±0.01	-1.11±0.02	0.810±0.007	0.809±0.007	-0.006±0.005	0.048±0.004
9.8	-3.6±0.3	-0.4±0.4	-0.43±0.01	-1.11±0.02	0.822±0.007	0.821±0.007	-0.005±0.005	0.051±0.005
10.8	-3.8±0.3	-0.4±0.4	-0.41±0.01	-1.08±0.02	0.819±0.007	0.817±0.007	-0.006±0.005	0.055±0.005
11.8	-4.0±0.3	-0.4±0.4	-0.41±0.01	-1.10±0.02	0.831±0.006	0.829±0.006	-0.006±0.005	0.058±0.005
12.8	-4.2±0.3	-0.4±0.4	-0.41±0.01	-1.10±0.02	0.827±0.007	0.825±0.006	-0.005±0.005	0.061±0.005
13.8	-4.4±0.3	-0.5±0.4	-0.39±0.01	-1.09±0.02	0.837±0.006	0.834±0.006	-0.007±0.005	0.065±0.005
16.4	-4.7±0.3	-0.5±0.3	-0.38±0.01	-1.10±0.02	0.847±0.006	0.844±0.006	-0.008±0.005	0.070±0.005
18.9	-5.0±0.3	-0.6±0.3	-0.38±0.01	-1.11±0.02	0.857±0.006	0.854±0.006	-0.008±0.005	0.075±0.005
21.4	-5.2±0.3	-0.6±0.3	-0.35±0.01	-1.09±0.02	0.864±0.006	0.860±0.006	-0.008±0.005	0.079±0.005
24.0	-5.4±0.3	-0.6±0.3	-0.33±0.01	-1.10±0.02	0.873±0.006	0.869±0.006	-0.009±0.005	0.082±0.005
26.5	-5.6±0.3	-0.6±0.3	-0.32±0.01	-1.08±0.02	0.877±0.006	0.873±0.006	-0.009±0.005	0.086±0.005
29.1	-5.6±0.3	-0.6±0.3	-0.29±0.01	-1.09±0.02	0.891±0.006	0.887±0.006	-0.009±0.005	0.087±0.005
31.6	-5.8±0.3	-0.5±0.3	-0.29±0.01	-1.09±0.02	0.892±0.006	0.888±0.006	-0.008±0.005	0.090±0.005
34.1	-5.8±0.3	-0.5±0.3	-0.26±0.01	-1.08±0.02	0.906±0.006	0.901±0.006	-0.008±0.005	0.091±0.005
36.7	-5.9±0.3	-0.5±0.3	-0.26±0.01	-1.09±0.02	0.914±0.006	0.909±0.006	-0.008±0.005	0.093±0.005
39.2	-5.8±0.3	-0.5±0.3	-0.22±0.01	-1.08±0.02	0.930±0.006	0.925±0.006	-0.008±0.005	0.094±0.005
44.3	-5.9±0.3	-0.4±0.3	-0.19±0.01	-1.08±0.02	0.945±0.006	0.940±0.006	-0.007±0.005	0.097±0.005
49.4	-5.9±0.3	-0.4±0.3	-0.16±0.01	-1.06±0.02	0.951±0.006	0.946±0.006	-0.007±0.005	0.098±0.005
54.5	-5.9±0.3	-0.4±0.3	-0.12±0.01	-1.07±0.02	0.975±0.006	0.970±0.006	-0.007±0.004	0.100±0.005
59.5	-5.9±0.3	-0.4±0.3	-0.10±0.01	-1.07±0.02	0.987±0.006	0.982±0.006	-0.006±0.004	0.101±0.005
64.6	-5.8±0.3	-0.4±0.3	-0.07±0.01	-1.07±0.02	0.999±0.006	0.994±0.006	-0.006±0.004	0.102±0.006
69.7	-5.7±0.3	-0.4±0.2	-0.04±0.01	-1.06±0.02	1.011±0.006	1.005±0.006	-0.006±0.004	0.101±0.006
74.8	-5.7±0.3	-0.3±0.2	-0.02±0.01	-1.06±0.02	1.020±0.006	1.015±0.006	-0.006±0.004	0.101±0.006
79.9	-5.6±0.3	-0.4±0.2	-0.01±0.01	-1.05±0.02	1.023±0.006	1.018±0.006	-0.006±0.004	0.100±0.006
84.9	-5.5±0.3	-0.3±0.2	0.00±0.01	-1.06±0.02	1.027±0.006	1.022±0.006	-0.006±0.004	0.098±0.006
90.0	-5.4±0.3	-0.3±0.2	0.00±0.01	-1.05±0.02	1.028±0.006	1.024±0.006	-0.006±0.004	0.097±0.006
100.2	-5.3±0.3	-0.3±0.2	0.01±0.01	-1.05±0.02	1.029±0.006	1.024±0.006	-0.006±0.004	0.096±0.006
110.3	-5.2±0.3	-0.3±0.2	0.01±0.01	-1.05±0.02	1.030±0.006	1.026±0.006	-0.006±0.004	0.094±0.006
120.5	-5.1±0.3	-0.5±0.2	0.01±0.01	-1.05±0.02	1.030±0.006	1.026±0.006	-0.009±0.004	0.092±0.006
130.7	-5.0±0.3	-0.5±0.2	0.01±0.01	-1.05±0.02	1.031±0.006	1.027±0.006	-0.009±0.004	0.091±0.006
140.8	-5.0±0.3	-0.6±0.2	0.01±0.01	-1.06±0.02	1.031±0.006	1.027±0.006	-0.010±0.004	0.089±0.006

Table B.235 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-19 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.0±0.3	0.5±0.5	-0.61±0.01	-1.08±0.02	0.684±0.007	0.683±0.007	0.006±0.006	0.036±0.004
4.7	-3.7±0.3	-0.3±0.5	-0.57±0.01	-1.08±0.02	0.714±0.007	0.712±0.007	-0.003±0.006	0.046±0.004
5.7	-4.1±0.3	-0.8±0.5	-0.52±0.01	-1.07±0.02	0.743±0.007	0.741±0.007	-0.010±0.006	0.053±0.004
6.7	-4.4±0.3	-0.9±0.4	-0.48±0.01	-1.08±0.02	0.775±0.007	0.773±0.007	-0.012±0.006	0.059±0.004
7.7	-4.5±0.3	-1.2±0.4	-0.47±0.01	-1.08±0.02	0.781±0.007	0.778±0.007	-0.017±0.006	0.062±0.004
8.7	-4.6±0.3	-1.2±0.4	-0.44±0.01	-1.08±0.02	0.798±0.007	0.796±0.007	-0.017±0.005	0.064±0.004
9.8	-4.7±0.3	-1.4±0.4	-0.42±0.01	-1.08±0.02	0.811±0.007	0.808±0.007	-0.019±0.005	0.066±0.004
10.8	-4.8±0.3	-1.5±0.4	-0.41±0.01	-1.08±0.02	0.817±0.007	0.814±0.007	-0.021±0.005	0.069±0.005
11.8	-4.8±0.3	-1.4±0.4	-0.40±0.01	-1.09±0.02	0.829±0.006	0.826±0.006	-0.021±0.005	0.070±0.005
12.8	-5.0±0.3	-1.5±0.4	-0.39±0.01	-1.08±0.02	0.832±0.006	0.829±0.006	-0.021±0.005	0.072±0.005
13.8	-5.0±0.3	-1.5±0.4	-0.39±0.01	-1.10±0.02	0.843±0.006	0.840±0.006	-0.022±0.005	0.074±0.005
16.4	-5.2±0.3	-1.5±0.3	-0.36±0.01	-1.09±0.02	0.854±0.006	0.850±0.006	-0.023±0.005	0.077±0.005
18.9	-5.4±0.3	-1.6±0.3	-0.33±0.01	-1.07±0.02	0.863±0.006	0.858±0.006	-0.024±0.005	0.082±0.005
21.4	-5.6±0.3	-1.6±0.3	-0.31±0.01	-1.07±0.02	0.872±0.006	0.867±0.006	-0.024±0.005	0.085±0.005
24.0	-5.7±0.3	-1.5±0.3	-0.30±0.01	-1.07±0.02	0.877±0.006	0.872±0.006	-0.023±0.005	0.087±0.005
26.5	-5.8±0.3	-1.5±0.3	-0.28±0.01	-1.06±0.02	0.884±0.006	0.880±0.006	-0.023±0.005	0.090±0.005
29.1	-5.9±0.3	-1.4±0.3	-0.27±0.01	-1.06±0.02	0.890±0.006	0.885±0.006	-0.022±0.005	0.092±0.005
31.6	-5.9±0.3	-1.4±0.3	-0.25±0.01	-1.07±0.02	0.904±0.006	0.898±0.006	-0.023±0.005	0.093±0.005
34.1	-5.9±0.3	-1.4±0.3	-0.23±0.01	-1.06±0.02	0.912±0.006	0.907±0.006	-0.021±0.005	0.094±0.005
36.7	-5.9±0.3	-1.3±0.3	-0.22±0.01	-1.07±0.02	0.924±0.006	0.918±0.006	-0.021±0.005	0.096±0.005
39.2	-6.0±0.3	-1.3±0.3	-0.19±0.01	-1.05±0.02	0.928±0.006	0.922±0.006	-0.020±0.005	0.097±0.005
44.3	-6.0±0.3	-1.2±0.3	-0.17±0.01	-1.06±0.02	0.943±0.006	0.937±0.006	-0.019±0.005	0.099±0.005
49.4	-6.0±0.3	-1.0±0.3	-0.14±0.01	-1.04±0.02	0.953±0.006	0.947±0.006	-0.017±0.005	0.099±0.005
54.5	-6.0±0.3	-1.0±0.3	-0.11±0.01	-1.05±0.02	0.970±0.006	0.964±0.006	-0.016±0.004	0.101±0.005
59.5	-6.0±0.3	-0.9±0.3	-0.08±0.01	-1.04±0.02	0.979±0.006	0.974±0.006	-0.016±0.004	0.102±0.005
64.6	-5.9±0.3	-0.9±0.3	-0.05±0.01	-1.04±0.02	0.994±0.006	0.988±0.006	-0.015±0.004	0.103±0.005
69.7	-5.9±0.3	-0.8±0.3	-0.03±0.01	-1.03±0.02	1.001±0.006	0.995±0.006	-0.013±0.004	0.103±0.006
74.8	-5.8±0.3	-0.7±0.2	-0.02±0.01	-1.03±0.02	1.007±0.006	1.002±0.006	-0.012±0.004	0.102±0.006
79.9	-5.7±0.3	-0.6±0.2	0.00±0.01	-1.03±0.02	1.011±0.006	1.006±0.006	-0.010±0.004	0.100±0.006
84.9	-5.6±0.3	-0.6±0.2	0.00±0.01	-1.03±0.02	1.013±0.006	1.008±0.006	-0.010±0.004	0.099±0.006
90.0	-5.6±0.3	-0.5±0.2	0.01±0.01	-1.02±0.02	1.014±0.006	1.009±0.006	-0.009±0.004	0.098±0.006
100.2	-5.5±0.3	-0.4±0.2	0.01±0.01	-1.02±0.02	1.016±0.006	1.011±0.006	-0.007±0.004	0.097±0.006
110.3	-5.4±0.3	-0.4±0.2	0.01±0.01	-1.03±0.02	1.017±0.006	1.012±0.006	-0.007±0.004	0.097±0.006
120.5	-5.3±0.3	-0.5±0.2	0.01±0.01	-1.03±0.02	1.017±0.006	1.013±0.006	-0.009±0.004	0.095±0.006
130.7	-5.3±0.3	-0.6±0.2	0.01±0.01	-1.03±0.02	1.018±0.006	1.014±0.006	-0.010±0.004	0.094±0.006
140.8	-5.2±0.3	-0.6±0.2	0.01±0.01	-1.03±0.02	1.019±0.006	1.015±0.006	-0.010±0.004	0.092±0.006

Table B.236 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #2 at (x,z)=(302 mm,-13 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-6.6±0.3	0.1±0.8	-0.73±0.01	-1.06±0.02	0.581±0.008	0.577±0.008	0.001±0.008	0.066±0.003
4.7	-7.0±0.3	-1.0±0.7	-0.68±0.01	-1.07±0.02	0.618±0.007	0.613±0.007	-0.011±0.007	0.075±0.004
5.7	-7.0±0.3	-1.6±0.6	-0.67±0.01	-1.07±0.02	0.632±0.007	0.627±0.007	-0.018±0.007	0.077±0.004
6.7	-7.0±0.3	-1.9±0.6	-0.65±0.01	-1.08±0.02	0.652±0.007	0.647±0.007	-0.021±0.007	0.079±0.004
7.7	-6.8±0.3	-1.9±0.6	-0.64±0.01	-1.08±0.02	0.665±0.007	0.660±0.007	-0.022±0.007	0.078±0.004
8.7	-6.6±0.3	-2.3±0.6	-0.63±0.01	-1.07±0.02	0.662±0.007	0.657±0.007	-0.026±0.007	0.076±0.004
9.8	-6.6±0.3	-2.4±0.6	-0.62±0.01	-1.08±0.02	0.675±0.007	0.670±0.007	-0.028±0.006	0.078±0.004
10.8	-6.6±0.3	-2.5±0.6	-0.60±0.01	-1.06±0.02	0.680±0.007	0.674±0.007	-0.030±0.006	0.078±0.004
11.8	-6.6±0.3	-2.6±0.5	-0.59±0.01	-1.09±0.02	0.704±0.007	0.699±0.007	-0.032±0.006	0.080±0.004
12.8	-6.8±0.3	-2.6±0.5	-0.57±0.01	-1.07±0.02	0.710±0.007	0.704±0.007	-0.032±0.006	0.084±0.004
13.8	-6.7±0.3	-2.7±0.5	-0.55±0.01	-1.08±0.02	0.732±0.007	0.726±0.007	-0.034±0.006	0.085±0.004
16.4	-6.7±0.3	-2.7±0.4	-0.50±0.01	-1.07±0.02	0.757±0.007	0.751±0.007	-0.036±0.006	0.089±0.004
18.9	-6.9±0.3	-2.8±0.4	-0.44±0.01	-1.07±0.02	0.793±0.007	0.786±0.007	-0.039±0.006	0.095±0.004
21.4	-6.8±0.3	-3.0±0.4	-0.40±0.01	-1.06±0.02	0.811±0.007	0.804±0.007	-0.042±0.005	0.096±0.005
24.0	-6.8±0.3	-2.9±0.4	-0.38±0.01	-1.07±0.02	0.830±0.007	0.823±0.007	-0.042±0.005	0.098±0.005
26.5	-6.7±0.3	-2.9±0.4	-0.35±0.01	-1.06±0.02	0.844±0.007	0.837±0.007	-0.042±0.005	0.099±0.005
29.1	-6.7±0.3	-2.8±0.3	-0.33±0.01	-1.06±0.02	0.858±0.006	0.851±0.007	-0.042±0.005	0.100±0.005
31.6	-6.8±0.3	-2.7±0.3	-0.29±0.01	-1.06±0.02	0.876±0.006	0.869±0.006	-0.040±0.005	0.103±0.005
34.1	-6.6±0.3	-2.6±0.3	-0.27±0.01	-1.04±0.02	0.880±0.006	0.873±0.006	-0.039±0.005	0.102±0.005
36.7	-6.6±0.3	-2.5±0.3	-0.24±0.01	-1.03±0.02	0.887±0.006	0.880±0.006	-0.039±0.005	0.102±0.005
39.2	-6.6±0.3	-2.4±0.3	-0.23±0.01	-1.04±0.02	0.899±0.006	0.892±0.006	-0.037±0.005	0.103±0.005
44.3	-6.6±0.3	-2.2±0.3	-0.20±0.01	-1.03±0.02	0.911±0.006	0.904±0.006	-0.035±0.005	0.104±0.005
49.4	-6.6±0.3	-2.0±0.3	-0.16±0.01	-1.02±0.02	0.928±0.006	0.922±0.006	-0.032±0.005	0.106±0.005
54.5	-6.6±0.3	-1.9±0.3	-0.14±0.01	-1.02±0.02	0.938±0.006	0.932±0.006	-0.030±0.005	0.108±0.005
59.5	-6.6±0.3	-1.6±0.3	-0.11±0.01	-1.00±0.02	0.945±0.006	0.938±0.006	-0.026±0.005	0.109±0.005
64.6	-6.6±0.3	-1.5±0.3	-0.09±0.01	-1.01±0.02	0.960±0.006	0.954±0.006	-0.024±0.005	0.110±0.005
69.7	-6.6±0.3	-1.2±0.3	-0.07±0.01	-1.00±0.02	0.966±0.006	0.960±0.006	-0.020±0.005	0.111±0.005
74.8	-6.5±0.3	-1.1±0.3	-0.06±0.01	-1.01±0.02	0.974±0.006	0.968±0.006	-0.019±0.004	0.111±0.005
79.9	-6.5±0.3	-0.9±0.3	-0.06±0.01	-1.00±0.02	0.973±0.006	0.967±0.006	-0.016±0.005	0.109±0.005
84.9	-6.4±0.3	-0.7±0.3	-0.08±0.01	-1.01±0.02	0.965±0.006	0.959±0.006	-0.012±0.005	0.107±0.005
90.0	-6.4±0.3	-0.5±0.3	-0.07±0.01	-1.01±0.02	0.968±0.006	0.961±0.006	-0.009±0.005	0.108±0.005
100.2	-6.4±0.3	-0.4±0.3	-0.07±0.01	-1.01±0.02	0.966±0.006	0.960±0.006	-0.007±0.005	0.108±0.005
110.3	-6.4±0.3	-0.5±0.3	-0.09±0.01	-1.01±0.02	0.959±0.006	0.953±0.006	-0.008±0.005	0.107±0.005
120.5	-6.5±0.3	-0.6±0.3	-0.09±0.01	-1.01±0.02	0.962±0.006	0.956±0.006	-0.009±0.005	0.108±0.005
130.7	-6.3±0.3	-0.7±0.3	-0.12±0.01	-1.01±0.02	0.944±0.006	0.938±0.006	-0.012±0.005	0.104±0.005
140.8	-6.3±0.3	-0.9±0.3	-0.16±0.01	-1.02±0.02	0.925±0.006	0.920±0.006	-0.015±0.005	0.102±0.005

Table B.237 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(130 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.0±0.3	2.3±0.5	-0.74±0.01	-1.30±0.02	0.744±0.007	0.743±0.007	0.030±0.006	0.026±0.004
4.7	-1.8±0.3	1.2±0.4	-0.71±0.01	-1.31±0.02	0.776±0.007	0.776±0.007	0.017±0.006	0.025±0.004
5.7	-1.6±0.3	0.8±0.4	-0.68±0.01	-1.31±0.02	0.796±0.007	0.795±0.007	0.011±0.006	0.022±0.004
6.7	-1.5±0.3	0.5±0.4	-0.64±0.01	-1.31±0.02	0.817±0.007	0.816±0.007	0.007±0.005	0.021±0.005
7.7	-1.4±0.3	0.4±0.4	-0.63±0.01	-1.31±0.02	0.827±0.007	0.826±0.007	0.006±0.005	0.020±0.005
8.7	-1.3±0.3	0.5±0.4	-0.61±0.01	-1.31±0.02	0.842±0.007	0.842±0.007	0.007±0.005	0.019±0.005
9.8	-1.3±0.3	0.4±0.4	-0.59±0.01	-1.32±0.02	0.854±0.007	0.854±0.007	0.006±0.005	0.019±0.005
10.8	-1.3±0.3	0.4±0.3	-0.56±0.01	-1.31±0.02	0.866±0.007	0.866±0.007	0.006±0.005	0.019±0.005
11.8	-1.2±0.3	0.4±0.3	-0.55±0.01	-1.31±0.02	0.873±0.007	0.873±0.007	0.006±0.005	0.018±0.005
12.8	-1.3±0.3	0.4±0.3	-0.53±0.01	-1.31±0.02	0.883±0.007	0.883±0.007	0.006±0.005	0.019±0.005
13.8	-1.3±0.3	0.4±0.3	-0.52±0.01	-1.32±0.02	0.891±0.007	0.891±0.007	0.007±0.005	0.019±0.005
16.4	-1.2±0.3	0.4±0.3	-0.48±0.01	-1.31±0.02	0.909±0.007	0.909±0.007	0.007±0.005	0.019±0.005
18.9	-1.2±0.3	0.4±0.3	-0.44±0.01	-1.31±0.02	0.930±0.007	0.930±0.007	0.007±0.005	0.019±0.005
21.4	-1.2±0.3	0.4±0.3	-0.42±0.01	-1.31±0.02	0.942±0.007	0.942±0.007	0.007±0.005	0.019±0.005
24.0	-1.2±0.3	0.4±0.3	-0.39±0.01	-1.31±0.02	0.958±0.007	0.958±0.007	0.007±0.005	0.020±0.005
26.5	-1.2±0.3	0.5±0.3	-0.37±0.01	-1.31±0.02	0.972±0.007	0.972±0.007	0.008±0.005	0.020±0.005
29.1	-1.1±0.3	0.5±0.3	-0.34±0.01	-1.31±0.02	0.982±0.007	0.982±0.007	0.008±0.005	0.020±0.005
31.6	-1.2±0.3	0.5±0.3	-0.31±0.01	-1.30±0.02	0.998±0.007	0.997±0.007	0.009±0.004	0.021±0.006
34.1	-1.2±0.3	0.5±0.3	-0.29±0.01	-1.31±0.02	1.009±0.007	1.009±0.007	0.008±0.004	0.021±0.006
36.7	-1.2±0.3	0.5±0.2	-0.26±0.01	-1.30±0.02	1.021±0.007	1.021±0.007	0.008±0.004	0.021±0.006
39.2	-1.2±0.3	0.5±0.2	-0.24±0.01	-1.30±0.02	1.029±0.007	1.029±0.007	0.009±0.004	0.022±0.006
44.3	-1.1±0.3	0.5±0.2	-0.20±0.01	-1.30±0.02	1.051±0.007	1.050±0.007	0.010±0.004	0.021±0.006
49.4	-1.2±0.3	0.5±0.2	-0.16±0.01	-1.30±0.02	1.067±0.007	1.067±0.007	0.010±0.004	0.022±0.006
54.5	-1.2±0.3	0.5±0.2	-0.12±0.01	-1.30±0.02	1.087±0.007	1.087±0.007	0.010±0.004	0.022±0.006
59.5	-1.1±0.3	0.6±0.2	-0.09±0.01	-1.29±0.02	1.099±0.007	1.099±0.007	0.012±0.004	0.022±0.006
64.6	-1.1±0.3	0.6±0.2	-0.05±0.01	-1.30±0.02	1.116±0.007	1.116±0.007	0.012±0.004	0.022±0.006
69.7	-1.1±0.3	0.6±0.2	-0.03±0.01	-1.30±0.02	1.126±0.007	1.126±0.007	0.012±0.004	0.022±0.006
74.8	-1.1±0.3	0.6±0.2	-0.01±0.01	-1.30±0.02	1.133±0.007	1.133±0.007	0.012±0.004	0.022±0.006
79.9	-1.1±0.3	0.6±0.2	0.00±0.01	-1.30±0.02	1.139±0.007	1.139±0.007	0.012±0.004	0.022±0.006
84.9	-1.1±0.3	0.7±0.2	0.01±0.01	-1.30±0.02	1.141±0.007	1.141±0.007	0.013±0.004	0.021±0.006
90.0	-1.0±0.3	0.7±0.2	0.01±0.01	-1.30±0.02	1.143±0.007	1.143±0.007	0.014±0.004	0.020±0.006
100.2	-1.0±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.143±0.007	1.142±0.007	0.013±0.004	0.019±0.006
110.3	-1.0±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.142±0.007	1.142±0.007	0.012±0.004	0.020±0.006
120.5	-0.9±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.142±0.007	1.142±0.007	0.012±0.004	0.019±0.006
130.7	-0.9±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.141±0.007	1.141±0.007	0.012±0.004	0.019±0.006
140.8	-0.9±0.3	0.6±0.2	0.01±0.01	-1.29±0.02	1.141±0.007	1.141±0.007	0.011±0.004	0.019±0.006

Table B.238 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(130 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.9±0.3	1.3±0.4	-0.75±0.01	-1.33±0.02	0.761±0.007	0.760±0.007	0.017±0.006	0.025±0.004
4.7	-1.6±0.3	0.4±0.4	-0.71±0.01	-1.34±0.02	0.791±0.007	0.791±0.007	0.006±0.006	0.022±0.004
5.7	-1.4±0.3	0.3±0.4	-0.67±0.01	-1.33±0.02	0.811±0.007	0.811±0.007	0.005±0.005	0.019±0.004
6.7	-1.2±0.3	0.4±0.4	-0.65±0.01	-1.33±0.02	0.825±0.007	0.825±0.007	0.005±0.005	0.017±0.005
7.7	-1.1±0.3	0.4±0.4	-0.62±0.01	-1.32±0.02	0.838±0.007	0.838±0.007	0.006±0.005	0.016±0.005
8.7	-1.1±0.3	0.4±0.3	-0.60±0.01	-1.33±0.02	0.854±0.007	0.854±0.007	0.006±0.005	0.016±0.005
9.8	-1.1±0.3	0.4±0.3	-0.58±0.01	-1.32±0.02	0.862±0.007	0.862±0.007	0.006±0.005	0.017±0.005
10.8	-1.1±0.3	0.4±0.3	-0.56±0.01	-1.32±0.02	0.872±0.007	0.872±0.007	0.006±0.005	0.016±0.005
11.8	-1.1±0.3	0.5±0.3	-0.55±0.01	-1.32±0.02	0.878±0.007	0.878±0.007	0.007±0.005	0.016±0.005
12.8	-1.1±0.3	0.4±0.3	-0.53±0.01	-1.32±0.02	0.888±0.007	0.888±0.007	0.007±0.005	0.018±0.005
13.8	-1.2±0.3	0.5±0.3	-0.52±0.01	-1.32±0.02	0.893±0.007	0.893±0.007	0.008±0.005	0.018±0.005
16.4	-1.2±0.3	0.5±0.3	-0.49±0.01	-1.32±0.02	0.914±0.007	0.914±0.007	0.008±0.005	0.019±0.005
18.9	-1.3±0.3	0.6±0.3	-0.45±0.01	-1.31±0.02	0.927±0.007	0.927±0.007	0.009±0.005	0.021±0.005
21.4	-1.3±0.3	0.6±0.3	-0.43±0.01	-1.32±0.02	0.946±0.007	0.945±0.007	0.010±0.005	0.021±0.005
24.0	-1.4±0.3	0.5±0.3	-0.40±0.01	-1.32±0.02	0.958±0.007	0.958±0.007	0.009±0.005	0.023±0.005
26.5	-1.4±0.3	0.5±0.3	-0.37±0.01	-1.32±0.02	0.971±0.007	0.971±0.007	0.009±0.005	0.023±0.005
29.1	-1.4±0.3	0.6±0.3	-0.34±0.01	-1.32±0.02	0.988±0.007	0.987±0.007	0.011±0.005	0.023±0.005
31.6	-1.4±0.3	0.6±0.3	-0.33±0.01	-1.32±0.02	0.996±0.007	0.996±0.007	0.010±0.004	0.025±0.005
34.1	-1.4±0.3	0.6±0.3	-0.30±0.01	-1.31±0.02	1.007±0.007	1.007±0.007	0.010±0.004	0.025±0.006
36.7	-1.4±0.3	0.6±0.2	-0.28±0.01	-1.32±0.02	1.020±0.007	1.020±0.007	0.010±0.004	0.025±0.006
39.2	-1.4±0.3	0.5±0.2	-0.25±0.01	-1.32±0.02	1.031±0.007	1.030±0.007	0.009±0.004	0.026±0.006
44.3	-1.4±0.3	0.5±0.2	-0.21±0.01	-1.31±0.02	1.050±0.007	1.050±0.007	0.009±0.004	0.026±0.006
49.4	-1.4±0.3	0.6±0.2	-0.17±0.01	-1.31±0.02	1.065±0.007	1.065±0.007	0.010±0.004	0.027±0.006
54.5	-1.4±0.3	0.6±0.2	-0.12±0.01	-1.30±0.02	1.085±0.007	1.084±0.007	0.012±0.004	0.027±0.006
59.5	-1.4±0.3	0.6±0.2	-0.09±0.01	-1.31±0.02	1.103±0.007	1.103±0.007	0.012±0.004	0.028±0.006
64.6	-1.4±0.3	0.6±0.2	-0.07±0.01	-1.31±0.02	1.117±0.007	1.117±0.007	0.012±0.004	0.027±0.006
69.7	-1.4±0.3	0.6±0.2	-0.04±0.01	-1.31±0.02	1.128±0.007	1.128±0.007	0.013±0.004	0.027±0.006
74.8	-1.3±0.3	0.6±0.2	-0.02±0.01	-1.31±0.02	1.136±0.007	1.135±0.007	0.012±0.004	0.026±0.006
79.9	-1.3±0.3	0.6±0.2	0.00±0.01	-1.30±0.02	1.141±0.007	1.141±0.007	0.013±0.004	0.026±0.006
84.9	-1.3±0.3	0.6±0.2	0.01±0.01	-1.31±0.02	1.145±0.007	1.145±0.007	0.013±0.004	0.026±0.006
90.0	-1.3±0.3	0.6±0.2	0.01±0.01	-1.31±0.02	1.146±0.007	1.146±0.007	0.013±0.004	0.026±0.006
100.2	-1.3±0.3	0.6±0.2	0.01±0.01	-1.30±0.02	1.147±0.007	1.146±0.007	0.011±0.004	0.026±0.006
110.3	-1.3±0.3	0.5±0.2	0.01±0.01	-1.30±0.02	1.145±0.007	1.145±0.007	0.009±0.004	0.026±0.006
120.5	-1.1±0.3	0.4±0.2	0.01±0.01	-1.30±0.02	1.145±0.007	1.145±0.007	0.009±0.004	0.023±0.006
130.7	-1.1±0.3	0.4±0.2	0.01±0.01	-1.30±0.02	1.145±0.007	1.145±0.007	0.009±0.004	0.023±0.006
140.8	-1.2±0.3	0.4±0.2	0.01±0.01	-1.30±0.02	1.144±0.007	1.143±0.007	0.009±0.004	0.024±0.006

Table B.239 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(130 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.2±0.3	2.4±0.4	-0.73±0.01	-1.35±0.02	0.787±0.007	0.786±0.007	0.032±0.006	0.030±0.004
4.7	-1.8±0.3	1.2±0.4	-0.69±0.01	-1.35±0.02	0.816±0.007	0.815±0.007	0.017±0.005	0.026±0.005
5.7	-1.6±0.3	0.8±0.4	-0.66±0.01	-1.36±0.02	0.841±0.007	0.840±0.007	0.012±0.005	0.023±0.005
6.7	-1.4±0.3	0.6±0.3	-0.62±0.01	-1.36±0.02	0.857±0.007	0.856±0.007	0.009±0.005	0.021±0.005
7.7	-1.3±0.3	0.5±0.3	-0.60±0.01	-1.35±0.02	0.863±0.007	0.863±0.007	0.008±0.005	0.020±0.005
8.7	-1.3±0.3	0.5±0.3	-0.59±0.01	-1.36±0.02	0.878±0.007	0.878±0.007	0.007±0.005	0.020±0.005
9.8	-1.3±0.3	0.4±0.3	-0.56±0.01	-1.35±0.02	0.887±0.007	0.887±0.007	0.007±0.005	0.021±0.005
10.8	-1.3±0.3	0.5±0.3	-0.55±0.01	-1.35±0.02	0.894±0.007	0.894±0.007	0.007±0.005	0.021±0.005
11.8	-1.3±0.3	0.5±0.3	-0.53±0.01	-1.35±0.02	0.903±0.007	0.902±0.007	0.008±0.005	0.021±0.005
12.8	-1.4±0.3	0.5±0.3	-0.52±0.01	-1.35±0.02	0.911±0.007	0.911±0.007	0.007±0.005	0.022±0.005
13.8	-1.4±0.3	0.4±0.3	-0.50±0.01	-1.35±0.02	0.921±0.007	0.920±0.007	0.007±0.005	0.023±0.005
16.4	-1.5±0.3	0.4±0.3	-0.47±0.01	-1.34±0.02	0.935±0.007	0.935±0.007	0.007±0.005	0.025±0.005
18.9	-1.6±0.3	0.5±0.3	-0.43±0.01	-1.34±0.02	0.950±0.007	0.949±0.007	0.008±0.005	0.026±0.005
21.4	-1.6±0.3	0.5±0.3	-0.41±0.01	-1.34±0.02	0.965±0.007	0.964±0.007	0.008±0.005	0.027±0.005
24.0	-1.6±0.3	0.5±0.3	-0.38±0.01	-1.34±0.02	0.979±0.007	0.979±0.007	0.008±0.005	0.027±0.005
26.5	-1.6±0.3	0.5±0.3	-0.36±0.01	-1.34±0.02	0.991±0.007	0.991±0.007	0.008±0.005	0.028±0.005
29.1	-1.6±0.3	0.5±0.3	-0.34±0.01	-1.34±0.02	1.002±0.007	1.001±0.007	0.009±0.004	0.028±0.006
31.6	-1.6±0.3	0.5±0.2	-0.31±0.01	-1.33±0.02	1.012±0.007	1.012±0.007	0.009±0.004	0.029±0.006
34.1	-1.7±0.3	0.5±0.2	-0.29±0.01	-1.34±0.02	1.026±0.007	1.025±0.007	0.009±0.004	0.030±0.006
36.7	-1.7±0.3	0.6±0.2	-0.26±0.01	-1.34±0.02	1.036±0.007	1.036±0.007	0.010±0.004	0.031±0.006
39.2	-1.7±0.3	0.5±0.2	-0.25±0.01	-1.34±0.02	1.045±0.007	1.045±0.007	0.010±0.004	0.030±0.006
44.3	-1.7±0.3	0.6±0.2	-0.20±0.01	-1.33±0.02	1.064±0.007	1.064±0.007	0.011±0.004	0.032±0.006
49.4	-1.7±0.3	0.6±0.2	-0.16±0.01	-1.34±0.02	1.085±0.007	1.084±0.007	0.011±0.004	0.033±0.006
54.5	-1.7±0.3	0.6±0.2	-0.12±0.01	-1.33±0.02	1.100±0.007	1.099±0.007	0.012±0.004	0.033±0.006
59.5	-1.7±0.3	0.6±0.2	-0.10±0.01	-1.34±0.02	1.116±0.007	1.116±0.007	0.012±0.004	0.033±0.006
64.6	-1.7±0.3	0.6±0.2	-0.06±0.01	-1.34±0.02	1.132±0.007	1.131±0.007	0.012±0.004	0.034±0.006
69.7	-1.7±0.3	0.6±0.2	-0.04±0.01	-1.32±0.02	1.134±0.007	1.133±0.007	0.013±0.004	0.033±0.006
74.8	-1.7±0.3	0.6±0.2	-0.02±0.01	-1.33±0.02	1.148±0.007	1.147±0.007	0.012±0.004	0.034±0.006
79.9	-1.7±0.3	0.6±0.2	0.00±0.01	-1.33±0.02	1.154±0.007	1.153±0.007	0.012±0.004	0.034±0.006
84.9	-1.7±0.3	0.6±0.2	0.01±0.01	-1.33±0.02	1.158±0.007	1.157±0.007	0.013±0.004	0.034±0.006
90.0	-1.7±0.3	0.6±0.2	0.01±0.01	-1.33±0.02	1.157±0.007	1.157±0.007	0.012±0.004	0.034±0.006
100.2	-1.6±0.3	0.6±0.2	0.01±0.01	-1.33±0.02	1.158±0.007	1.158±0.007	0.011±0.004	0.033±0.006
110.3	-1.6±0.3	0.6±0.2	0.01±0.01	-1.33±0.02	1.157±0.007	1.157±0.007	0.012±0.004	0.032±0.006
120.5	-1.5±0.3	0.5±0.2	0.01±0.01	-1.33±0.02	1.157±0.007	1.157±0.007	0.010±0.004	0.031±0.006
130.7	-1.4±0.3	0.5±0.2	0.01±0.01	-1.33±0.02	1.157±0.007	1.156±0.007	0.010±0.004	0.028±0.006
140.8	-1.4±0.3	0.4±0.2	0.01±0.01	-1.33±0.02	1.156±0.007	1.156±0.007	0.008±0.004	0.029±0.006

Table B.240 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(130 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.3±0.3	1.9±0.4	-0.77±0.01	-1.38±0.02	0.780±0.007	0.779±0.007	0.025±0.006	0.032±0.004
4.7	-1.8±0.3	1.2±0.4	-0.73±0.01	-1.38±0.02	0.806±0.007	0.806±0.007	0.018±0.006	0.026±0.004
5.7	-1.7±0.3	1.1±0.4	-0.71±0.01	-1.39±0.02	0.825±0.007	0.825±0.007	0.016±0.005	0.024±0.005
6.7	-1.5±0.3	1.1±0.4	-0.68±0.01	-1.38±0.02	0.842±0.007	0.841±0.007	0.016±0.005	0.022±0.005
7.7	-1.5±0.3	1.1±0.4	-0.66±0.01	-1.38±0.02	0.854±0.007	0.853±0.007	0.016±0.005	0.023±0.005
8.7	-1.5±0.3	1.0±0.3	-0.63±0.01	-1.38±0.02	0.863±0.007	0.863±0.007	0.016±0.005	0.023±0.005
9.8	-1.6±0.3	1.1±0.3	-0.62±0.01	-1.38±0.02	0.874±0.007	0.873±0.007	0.016±0.005	0.024±0.005
10.8	-1.6±0.3	1.1±0.3	-0.60±0.01	-1.39±0.02	0.885±0.007	0.884±0.007	0.017±0.005	0.025±0.005
11.8	-1.7±0.3	1.0±0.3	-0.58±0.01	-1.38±0.02	0.892±0.007	0.891±0.007	0.016±0.005	0.027±0.005
12.8	-1.8±0.3	1.0±0.3	-0.56±0.01	-1.37±0.02	0.900±0.007	0.899±0.007	0.016±0.005	0.028±0.005
13.8	-1.8±0.3	0.9±0.3	-0.55±0.01	-1.38±0.02	0.909±0.007	0.908±0.007	0.015±0.005	0.029±0.005
16.4	-1.9±0.3	0.9±0.3	-0.51±0.01	-1.37±0.02	0.931±0.007	0.931±0.007	0.015±0.005	0.031±0.005
18.9	-2.0±0.3	0.9±0.3	-0.47±0.01	-1.37±0.02	0.951±0.007	0.950±0.007	0.015±0.005	0.033±0.005
21.4	-1.9±0.3	0.9±0.3	-0.43±0.01	-1.37±0.02	0.970±0.007	0.969±0.007	0.015±0.005	0.033±0.005
24.0	-2.0±0.3	0.8±0.3	-0.40±0.01	-1.37±0.02	0.986±0.007	0.985±0.007	0.014±0.005	0.035±0.005
26.5	-2.0±0.3	0.9±0.3	-0.37±0.01	-1.37±0.02	0.999±0.007	0.998±0.007	0.015±0.004	0.035±0.006
29.1	-2.0±0.3	0.8±0.3	-0.35±0.01	-1.37±0.02	1.009±0.007	1.008±0.007	0.014±0.004	0.035±0.006
31.6	-2.1±0.3	0.8±0.2	-0.32±0.01	-1.37±0.02	1.025±0.007	1.024±0.007	0.014±0.004	0.037±0.006
34.1	-2.1±0.3	0.8±0.2	-0.30±0.01	-1.37±0.02	1.035±0.007	1.035±0.007	0.014±0.004	0.038±0.006
36.7	-2.1±0.3	0.8±0.2	-0.28±0.01	-1.38±0.02	1.046±0.007	1.046±0.007	0.015±0.004	0.038±0.006
39.2	-2.1±0.3	0.7±0.2	-0.25±0.01	-1.37±0.02	1.055±0.007	1.055±0.007	0.013±0.004	0.038±0.006
44.3	-2.1±0.3	0.7±0.2	-0.21±0.01	-1.36±0.02	1.074±0.007	1.074±0.007	0.013±0.004	0.040±0.006
49.4	-2.2±0.3	0.7±0.2	-0.17±0.01	-1.36±0.02	1.090±0.007	1.089±0.007	0.014±0.004	0.041±0.006
54.5	-2.2±0.3	0.7±0.2	-0.12±0.01	-1.36±0.02	1.109±0.007	1.108±0.007	0.014±0.004	0.042±0.006
59.5	-2.1±0.3	0.7±0.2	-0.10±0.01	-1.36±0.02	1.126±0.007	1.125±0.007	0.014±0.004	0.042±0.006
64.6	-2.2±0.3	0.7±0.2	-0.06±0.01	-1.36±0.02	1.139±0.007	1.138±0.007	0.014±0.004	0.044±0.006
69.7	-2.2±0.3	0.7±0.2	-0.05±0.01	-1.36±0.02	1.147±0.007	1.146±0.007	0.014±0.004	0.044±0.006
74.8	-2.2±0.3	0.7±0.2	-0.02±0.01	-1.36±0.02	1.158±0.007	1.157±0.007	0.015±0.004	0.044±0.006
79.9	-2.2±0.3	0.7±0.2	0.00±0.01	-1.36±0.02	1.164±0.007	1.163±0.007	0.015±0.004	0.044±0.006
84.9	-2.1±0.3	0.7±0.2	0.00±0.01	-1.36±0.02	1.169±0.007	1.168±0.007	0.015±0.004	0.043±0.006
90.0	-2.1±0.3	0.7±0.2	0.01±0.01	-1.36±0.02	1.169±0.007	1.168±0.007	0.015±0.004	0.043±0.006
100.2	-2.1±0.3	0.7±0.2	0.01±0.01	-1.36±0.02	1.170±0.007	1.169±0.007	0.014±0.004	0.042±0.006
110.3	-2.0±0.3	0.6±0.2	0.01±0.01	-1.36±0.02	1.171±0.007	1.170±0.007	0.012±0.004	0.041±0.006
120.5	-2.0±0.3	0.5±0.2	0.01±0.01	-1.36±0.02	1.170±0.007	1.169±0.007	0.010±0.004	0.041±0.006
130.7	-1.9±0.3	0.5±0.2	0.01±0.01	-1.36±0.02	1.169±0.007	1.169±0.007	0.009±0.004	0.040±0.006
140.8	-1.9±0.3	0.4±0.2	0.01±0.01	-1.35±0.02	1.167±0.007	1.167±0.007	0.009±0.004	0.039±0.006

Table B.241 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(130 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.7±0.3	2.2±0.4	-0.72±0.01	-1.41±0.02	0.831±0.007	0.830±0.007	0.032±0.005	0.025±0.005
4.7	-1.2±0.3	1.4±0.3	-0.67±0.01	-1.42±0.02	0.866±0.007	0.865±0.007	0.022±0.005	0.018±0.005
5.7	-1.0±0.3	1.2±0.3	-0.64±0.01	-1.41±0.02	0.877±0.007	0.877±0.007	0.018±0.005	0.015±0.005
6.7	-0.9±0.3	1.1±0.3	-0.61±0.01	-1.41±0.02	0.893±0.007	0.893±0.007	0.018±0.005	0.015±0.005
7.7	-1.0±0.3	1.1±0.3	-0.60±0.01	-1.42±0.02	0.904±0.007	0.904±0.007	0.018±0.005	0.015±0.005
8.7	-1.0±0.3	1.1±0.3	-0.58±0.01	-1.41±0.02	0.911±0.007	0.911±0.007	0.018±0.005	0.016±0.005
9.8	-1.1±0.3	1.1±0.3	-0.57±0.01	-1.41±0.02	0.917±0.007	0.917±0.007	0.018±0.005	0.017±0.005
10.8	-1.2±0.3	1.1±0.3	-0.55±0.01	-1.41±0.02	0.927±0.007	0.927±0.007	0.018±0.005	0.020±0.005
11.8	-1.4±0.3	1.0±0.3	-0.53±0.01	-1.41±0.02	0.933±0.007	0.932±0.007	0.017±0.005	0.023±0.005
12.8	-1.4±0.3	1.1±0.3	-0.53±0.01	-1.40±0.02	0.936±0.007	0.935±0.007	0.017±0.005	0.023±0.005
13.8	-1.5±0.3	1.0±0.3	-0.51±0.01	-1.40±0.02	0.943±0.007	0.943±0.007	0.017±0.005	0.025±0.005
16.4	-1.7±0.3	1.0±0.3	-0.48±0.01	-1.39±0.02	0.957±0.007	0.957±0.007	0.017±0.005	0.028±0.005
18.9	-1.7±0.3	1.0±0.3	-0.45±0.01	-1.40±0.02	0.976±0.007	0.976±0.007	0.017±0.005	0.029±0.005
21.4	-1.8±0.3	1.0±0.3	-0.42±0.01	-1.40±0.02	0.986±0.007	0.985±0.007	0.017±0.005	0.031±0.005
24.0	-1.9±0.3	1.0±0.3	-0.40±0.01	-1.40±0.02	0.999±0.007	0.998±0.007	0.018±0.004	0.033±0.006
26.5	-1.9±0.3	1.0±0.3	-0.37±0.01	-1.39±0.02	1.012±0.007	1.011±0.007	0.018±0.004	0.034±0.006
29.1	-2.0±0.3	1.0±0.2	-0.35±0.01	-1.39±0.02	1.023±0.007	1.022±0.007	0.018±0.004	0.036±0.006
31.6	-2.0±0.3	1.0±0.2	-0.33±0.01	-1.40±0.02	1.035±0.007	1.034±0.007	0.017±0.004	0.036±0.006
34.1	-2.0±0.3	1.0±0.2	-0.30±0.01	-1.39±0.02	1.045±0.007	1.044±0.007	0.018±0.004	0.037±0.006
36.7	-2.0±0.3	0.9±0.2	-0.28±0.01	-1.40±0.02	1.061±0.007	1.061±0.007	0.017±0.004	0.037±0.006
39.2	-2.0±0.3	0.9±0.2	-0.26±0.01	-1.40±0.02	1.068±0.007	1.067±0.007	0.017±0.004	0.038±0.006
44.3	-2.0±0.3	0.9±0.2	-0.22±0.01	-1.41±0.02	1.090±0.007	1.090±0.007	0.016±0.004	0.039±0.006
49.4	-2.1±0.3	0.9±0.2	-0.18±0.01	-1.39±0.02	1.104±0.007	1.103±0.007	0.017±0.004	0.040±0.006
54.5	-2.0±0.3	0.8±0.2	-0.15±0.01	-1.41±0.02	1.120±0.007	1.119±0.007	0.016±0.004	0.040±0.006
59.5	-2.1±0.3	0.8±0.2	-0.11±0.01	-1.40±0.02	1.139±0.007	1.138±0.007	0.016±0.004	0.042±0.006
64.6	-2.1±0.3	0.8±0.2	-0.07±0.01	-1.39±0.02	1.151±0.007	1.150±0.007	0.016±0.004	0.043±0.006
69.7	-2.1±0.3	0.8±0.2	-0.05±0.01	-1.40±0.02	1.161±0.007	1.160±0.007	0.016±0.004	0.042±0.006
74.8	-2.1±0.3	0.8±0.2	-0.03±0.01	-1.40±0.02	1.170±0.007	1.169±0.007	0.016±0.004	0.043±0.006
79.9	-2.0±0.3	0.8±0.2	-0.01±0.01	-1.39±0.02	1.175±0.007	1.175±0.007	0.016±0.004	0.042±0.006
84.9	-2.0±0.3	0.7±0.2	0.00±0.01	-1.39±0.02	1.181±0.007	1.180±0.007	0.014±0.004	0.042±0.007
90.0	-1.9±0.3	0.6±0.2	0.01±0.01	-1.40±0.02	1.185±0.007	1.184±0.007	0.013±0.004	0.040±0.007
100.2	-1.9±0.3	0.6±0.2	0.01±0.01	-1.40±0.02	1.186±0.007	1.185±0.007	0.013±0.004	0.040±0.007
110.3	-1.9±0.3	0.6±0.2	0.01±0.01	-1.39±0.02	1.186±0.007	1.185±0.007	0.012±0.004	0.040±0.007
120.5	-1.8±0.3	0.6±0.2	0.01±0.01	-1.39±0.02	1.186±0.007	1.185±0.007	0.011±0.004	0.038±0.007
130.7	-1.8±0.3	0.4±0.2	0.01±0.01	-1.39±0.02	1.185±0.007	1.184±0.007	0.009±0.004	0.038±0.007
140.8	-1.8±0.3	0.4±0.2	0.01±0.01	-1.39±0.02	1.184±0.007	1.183±0.007	0.009±0.004	0.037±0.007

Table B.242 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(130 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.0±0.3	2.5±0.4	-0.71±0.01	-1.43±0.02	0.846±0.007	0.845±0.007	0.037±0.005	0.030±0.005
4.7	-1.6±0.3	1.7±0.3	-0.66±0.01	-1.43±0.02	0.878±0.007	0.877±0.007	0.026±0.005	0.024±0.005
5.7	-1.3±0.3	1.4±0.3	-0.62±0.01	-1.43±0.02	0.900±0.007	0.900±0.007	0.022±0.005	0.020±0.005
6.7	-1.3±0.3	1.4±0.3	-0.61±0.01	-1.43±0.02	0.909±0.007	0.908±0.007	0.022±0.005	0.021±0.005
7.7	-1.4±0.3	1.3±0.3	-0.59±0.01	-1.44±0.02	0.918±0.007	0.918±0.007	0.021±0.005	0.022±0.005
8.7	-1.5±0.3	1.3±0.3	-0.58±0.01	-1.43±0.02	0.926±0.007	0.925±0.007	0.021±0.005	0.024±0.005
9.8	-1.7±0.3	1.3±0.3	-0.56±0.01	-1.42±0.02	0.930±0.007	0.930±0.007	0.021±0.005	0.027±0.005
10.8	-1.8±0.3	1.3±0.3	-0.55±0.01	-1.43±0.02	0.939±0.007	0.939±0.007	0.021±0.005	0.030±0.005
11.8	-1.9±0.3	1.3±0.3	-0.53±0.01	-1.43±0.02	0.945±0.007	0.944±0.007	0.021±0.005	0.031±0.005
12.8	-2.1±0.3	1.3±0.3	-0.52±0.01	-1.42±0.02	0.948±0.007	0.947±0.007	0.021±0.005	0.035±0.005
13.8	-2.1±0.3	1.2±0.3	-0.51±0.01	-1.42±0.02	0.957±0.007	0.956±0.007	0.021±0.005	0.035±0.005
16.4	-2.3±0.3	1.2±0.3	-0.48±0.01	-1.42±0.02	0.971±0.007	0.970±0.007	0.020±0.005	0.039±0.005
18.9	-2.4±0.3	1.2±0.3	-0.46±0.01	-1.42±0.02	0.982±0.007	0.980±0.007	0.020±0.005	0.042±0.005
21.4	-2.5±0.3	1.2±0.3	-0.42±0.01	-1.42±0.02	0.998±0.007	0.997±0.007	0.021±0.004	0.044±0.006
24.0	-2.6±0.3	1.1±0.3	-0.40±0.01	-1.42±0.02	1.010±0.007	1.009±0.007	0.019±0.004	0.045±0.006
26.5	-2.6±0.3	1.1±0.2	-0.36±0.01	-1.41±0.02	1.024±0.007	1.023±0.007	0.019±0.004	0.047±0.006
29.1	-2.7±0.3	1.1±0.2	-0.35±0.01	-1.41±0.02	1.033±0.007	1.032±0.007	0.020±0.004	0.049±0.006
31.6	-2.7±0.3	1.1±0.2	-0.33±0.01	-1.43±0.02	1.047±0.007	1.046±0.007	0.020±0.004	0.050±0.006
34.1	-2.8±0.3	1.0±0.2	-0.30±0.01	-1.42±0.02	1.058±0.007	1.056±0.007	0.018±0.004	0.051±0.006
36.7	-2.8±0.3	1.0±0.2	-0.28±0.01	-1.41±0.02	1.063±0.007	1.061±0.007	0.019±0.004	0.052±0.006
39.2	-2.8±0.3	1.0±0.2	-0.25±0.01	-1.41±0.02	1.075±0.007	1.074±0.007	0.018±0.004	0.053±0.006
44.3	-2.8±0.3	0.9±0.2	-0.21±0.01	-1.40±0.02	1.093±0.007	1.091±0.007	0.018±0.004	0.054±0.006
49.4	-2.8±0.3	0.9±0.2	-0.18±0.01	-1.41±0.02	1.111±0.007	1.109±0.007	0.017±0.004	0.055±0.006
54.5	-2.8±0.3	0.8±0.2	-0.13±0.01	-1.41±0.02	1.128±0.007	1.127±0.007	0.016±0.004	0.056±0.006
59.5	-2.8±0.3	0.8±0.2	-0.11±0.01	-1.43±0.02	1.147±0.007	1.146±0.007	0.016±0.004	0.057±0.006
64.6	-2.8±0.3	0.8±0.2	-0.07±0.01	-1.41±0.02	1.159±0.007	1.158±0.007	0.017±0.004	0.058±0.006
69.7	-2.8±0.3	0.8±0.2	-0.05±0.01	-1.41±0.02	1.169±0.007	1.167±0.007	0.016±0.004	0.057±0.006
74.8	-2.8±0.3	0.8±0.2	-0.03±0.01	-1.42±0.02	1.180±0.007	1.178±0.007	0.016±0.004	0.059±0.007
79.9	-2.8±0.3	0.7±0.2	-0.01±0.01	-1.41±0.02	1.185±0.007	1.183±0.007	0.015±0.004	0.058±0.007
84.9	-2.8±0.3	0.7±0.2	0.00±0.01	-1.41±0.02	1.188±0.007	1.186±0.007	0.014±0.004	0.057±0.007
90.0	-2.7±0.3	0.6±0.2	0.00±0.01	-1.42±0.02	1.192±0.007	1.190±0.007	0.013±0.004	0.056±0.007
100.2	-2.6±0.3	0.5±0.2	0.01±0.01	-1.41±0.02	1.193±0.007	1.192±0.007	0.011±0.004	0.055±0.007
110.3	-2.6±0.3	0.5±0.2	0.01±0.01	-1.41±0.02	1.193±0.007	1.192±0.007	0.011±0.004	0.055±0.007
120.5	-2.6±0.3	0.4±0.2	0.01±0.01	-1.41±0.02	1.192±0.007	1.191±0.007	0.009±0.004	0.055±0.007
130.7	-2.6±0.3	0.4±0.2	0.01±0.01	-1.41±0.02	1.192±0.007	1.191±0.007	0.008±0.004	0.053±0.007
140.8	-2.5±0.3	0.3±0.2	0.01±0.01	-1.41±0.02	1.191±0.007	1.189±0.007	0.005±0.004	0.052±0.007

Table B.243 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(130 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.2±0.3	2.7±0.3	-0.68±0.01	-1.45±0.02	0.874±0.007	0.873±0.007	0.040±0.005	0.033±0.005
4.7	-1.8±0.3	2.0±0.3	-0.63±0.01	-1.45±0.02	0.904±0.007	0.903±0.007	0.031±0.005	0.028±0.005
5.7	-1.5±0.3	1.7±0.3	-0.60±0.01	-1.45±0.02	0.922±0.007	0.921±0.007	0.027±0.005	0.025±0.005
6.7	-1.6±0.3	1.6±0.3	-0.58±0.01	-1.45±0.02	0.933±0.007	0.932±0.007	0.026±0.005	0.026±0.005
7.7	-1.8±0.3	1.6±0.3	-0.56±0.01	-1.45±0.02	0.941±0.007	0.940±0.007	0.026±0.005	0.029±0.005
8.7	-1.9±0.3	1.5±0.3	-0.56±0.01	-1.45±0.02	0.946±0.007	0.945±0.007	0.025±0.005	0.032±0.005
9.8	-2.1±0.3	1.5±0.3	-0.54±0.01	-1.45±0.02	0.953±0.007	0.952±0.007	0.025±0.005	0.035±0.005
10.8	-2.3±0.3	1.5±0.3	-0.53±0.01	-1.45±0.02	0.960±0.007	0.959±0.007	0.025±0.005	0.038±0.005
11.8	-2.3±0.3	1.3±0.3	-0.51±0.01	-1.44±0.02	0.965±0.007	0.964±0.007	0.021±0.005	0.039±0.005
12.8	-2.5±0.3	1.3±0.3	-0.50±0.01	-1.44±0.02	0.970±0.007	0.969±0.007	0.022±0.005	0.043±0.005
13.8	-2.6±0.3	1.2±0.3	-0.48±0.01	-1.44±0.02	0.978±0.007	0.977±0.007	0.021±0.005	0.045±0.005
16.4	-2.7±0.3	1.2±0.3	-0.45±0.01	-1.44±0.02	0.993±0.007	0.991±0.007	0.021±0.005	0.047±0.005
18.9	-3.0±0.3	1.1±0.3	-0.43±0.01	-1.45±0.02	1.008±0.007	1.006±0.007	0.020±0.004	0.052±0.006
21.4	-3.1±0.3	1.0±0.2	-0.41±0.01	-1.44±0.02	1.018±0.007	1.016±0.007	0.018±0.004	0.054±0.006
24.0	-3.1±0.3	1.1±0.2	-0.38±0.01	-1.44±0.02	1.029±0.007	1.028±0.007	0.020±0.004	0.056±0.006
26.5	-3.2±0.3	1.1±0.2	-0.35±0.01	-1.44±0.02	1.041±0.007	1.039±0.007	0.020±0.004	0.058±0.006
29.1	-3.3±0.3	1.0±0.2	-0.33±0.01	-1.43±0.02	1.050±0.007	1.048±0.007	0.019±0.004	0.060±0.006
31.6	-3.3±0.3	1.0±0.2	-0.30±0.01	-1.43±0.02	1.065±0.007	1.063±0.007	0.019±0.004	0.061±0.006
34.1	-3.3±0.3	1.0±0.2	-0.28±0.01	-1.43±0.02	1.071±0.007	1.069±0.007	0.019±0.004	0.063±0.006
36.7	-3.3±0.3	1.0±0.2	-0.26±0.01	-1.44±0.02	1.085±0.007	1.083±0.007	0.019±0.004	0.063±0.006
39.2	-3.4±0.3	1.0±0.2	-0.24±0.01	-1.44±0.02	1.096±0.007	1.094±0.007	0.019±0.004	0.065±0.006
44.3	-3.4±0.3	0.9±0.2	-0.20±0.01	-1.43±0.02	1.110±0.007	1.108±0.007	0.018±0.004	0.066±0.006
49.4	-3.5±0.3	0.9±0.2	-0.16±0.01	-1.43±0.02	1.127±0.007	1.125±0.007	0.017±0.004	0.068±0.006
54.5	-3.5±0.3	0.8±0.2	-0.13±0.01	-1.43±0.02	1.140±0.007	1.138±0.007	0.016±0.004	0.070±0.006
59.5	-3.5±0.3	0.8±0.2	-0.10±0.01	-1.44±0.02	1.157±0.007	1.155±0.007	0.016±0.004	0.071±0.006
64.6	-3.4±0.3	0.8±0.2	-0.07±0.01	-1.44±0.02	1.169±0.007	1.167±0.007	0.016±0.004	0.070±0.006
69.7	-3.5±0.3	0.8±0.2	-0.04±0.01	-1.43±0.02	1.179±0.007	1.176±0.007	0.016±0.004	0.071±0.007
74.8	-3.4±0.3	0.7±0.2	-0.02±0.01	-1.43±0.02	1.189±0.007	1.187±0.007	0.015±0.004	0.071±0.007
79.9	-3.4±0.3	0.7±0.2	-0.01±0.01	-1.43±0.02	1.192±0.007	1.190±0.007	0.014±0.004	0.070±0.007
84.9	-3.3±0.3	0.6±0.2	0.00±0.01	-1.43±0.02	1.197±0.007	1.195±0.007	0.013±0.004	0.070±0.007
90.0	-3.3±0.3	0.5±0.2	0.01±0.01	-1.44±0.02	1.202±0.007	1.199±0.007	0.011±0.004	0.070±0.007
100.2	-3.3±0.3	0.5±0.2	0.01±0.01	-1.44±0.02	1.204±0.007	1.202±0.007	0.010±0.004	0.068±0.007
110.3	-3.2±0.3	0.4±0.2	0.01±0.01	-1.44±0.02	1.204±0.007	1.202±0.007	0.008±0.004	0.067±0.007
120.5	-3.3±0.3	0.4±0.2	0.01±0.01	-1.44±0.02	1.203±0.007	1.201±0.007	0.009±0.004	0.068±0.007
130.7	-3.1±0.3	0.3±0.2	0.01±0.01	-1.43±0.02	1.202±0.007	1.200±0.007	0.007±0.004	0.066±0.007
140.8	-3.0±0.3	0.2±0.2	0.01±0.01	-1.43±0.02	1.201±0.007	1.200±0.007	0.005±0.004	0.063±0.007

Table B.244 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(130 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.8±0.3	2.6±0.3	-0.66±0.01	-1.46±0.02	0.892±0.007	0.890±0.007	0.041±0.005	0.044±0.005
4.7	-2.5±0.3	2.0±0.3	-0.61±0.01	-1.46±0.02	0.922±0.006	0.921±0.006	0.032±0.005	0.040±0.005
5.7	-2.3±0.3	1.9±0.3	-0.59±0.01	-1.47±0.02	0.939±0.006	0.938±0.006	0.031±0.005	0.038±0.005
6.7	-2.5±0.3	1.8±0.3	-0.56±0.01	-1.46±0.02	0.948±0.006	0.947±0.006	0.029±0.005	0.041±0.005
7.7	-2.6±0.3	1.7±0.3	-0.55±0.01	-1.47±0.02	0.956±0.006	0.954±0.006	0.028±0.005	0.043±0.005
8.7	-2.7±0.3	1.6±0.3	-0.54±0.01	-1.46±0.02	0.961±0.006	0.959±0.006	0.026±0.005	0.046±0.005
9.8	-2.9±0.3	1.5±0.3	-0.53±0.01	-1.46±0.02	0.966±0.007	0.965±0.006	0.026±0.005	0.049±0.005
10.8	-3.1±0.3	1.5±0.3	-0.51±0.01	-1.45±0.02	0.970±0.007	0.969±0.006	0.025±0.005	0.052±0.005
11.8	-3.2±0.3	1.4±0.3	-0.50±0.01	-1.45±0.02	0.977±0.007	0.975±0.007	0.024±0.005	0.055±0.005
12.8	-3.4±0.3	1.4±0.3	-0.49±0.01	-1.46±0.02	0.988±0.007	0.986±0.007	0.023±0.005	0.058±0.005
13.8	-3.5±0.3	1.3±0.3	-0.47±0.01	-1.45±0.02	0.992±0.007	0.990±0.007	0.022±0.004	0.060±0.005
16.4	-3.6±0.3	1.2±0.3	-0.44±0.01	-1.45±0.02	1.003±0.007	1.001±0.007	0.021±0.004	0.064±0.006
18.9	-3.8±0.3	1.1±0.2	-0.41±0.01	-1.45±0.02	1.018±0.007	1.015±0.007	0.020±0.004	0.067±0.006
21.4	-3.9±0.3	1.1±0.2	-0.39±0.01	-1.44±0.02	1.029±0.007	1.026±0.007	0.020±0.004	0.070±0.006
24.0	-3.9±0.3	1.1±0.2	-0.37±0.01	-1.45±0.02	1.040±0.007	1.038±0.007	0.020±0.004	0.071±0.006
26.5	-4.0±0.3	1.1±0.2	-0.35±0.01	-1.45±0.02	1.052±0.007	1.049±0.007	0.020±0.004	0.074±0.006
29.1	-4.1±0.3	1.1±0.2	-0.32±0.01	-1.44±0.02	1.062±0.007	1.059±0.007	0.019±0.004	0.076±0.006
31.6	-4.1±0.3	1.0±0.2	-0.29±0.01	-1.45±0.02	1.075±0.007	1.072±0.007	0.019±0.004	0.078±0.006
34.1	-4.1±0.3	1.0±0.2	-0.28±0.01	-1.45±0.02	1.084±0.007	1.081±0.007	0.019±0.004	0.078±0.006
36.7	-4.2±0.3	1.0±0.2	-0.25±0.01	-1.45±0.02	1.096±0.007	1.092±0.007	0.019±0.004	0.081±0.006
39.2	-4.3±0.3	1.0±0.2	-0.23±0.01	-1.44±0.02	1.103±0.007	1.100±0.007	0.019±0.004	0.082±0.006
44.3	-4.3±0.3	0.9±0.2	-0.19±0.01	-1.45±0.02	1.121±0.007	1.118±0.007	0.018±0.004	0.083±0.006
49.4	-4.3±0.3	0.8±0.2	-0.15±0.01	-1.45±0.02	1.139±0.007	1.135±0.007	0.017±0.004	0.086±0.006
54.5	-4.3±0.3	0.8±0.2	-0.13±0.01	-1.46±0.02	1.154±0.007	1.150±0.007	0.016±0.004	0.087±0.006
59.5	-4.3±0.3	0.8±0.2	-0.09±0.01	-1.45±0.02	1.167±0.007	1.164±0.007	0.016±0.004	0.088±0.006
64.6	-4.3±0.3	0.8±0.2	-0.06±0.01	-1.45±0.02	1.178±0.007	1.174±0.007	0.016±0.004	0.088±0.007
69.7	-4.3±0.3	0.7±0.2	-0.03±0.01	-1.44±0.02	1.187±0.007	1.184±0.007	0.015±0.004	0.089±0.007
74.8	-4.3±0.3	0.7±0.2	-0.02±0.01	-1.46±0.02	1.198±0.007	1.194±0.007	0.014±0.004	0.089±0.007
79.9	-4.3±0.3	0.6±0.2	0.00±0.01	-1.45±0.02	1.202±0.007	1.199±0.007	0.013±0.004	0.089±0.007
84.9	-4.2±0.3	0.6±0.2	0.00±0.01	-1.46±0.02	1.208±0.007	1.204±0.007	0.013±0.004	0.089±0.007
90.0	-4.1±0.3	0.6±0.2	0.01±0.01	-1.46±0.02	1.210±0.007	1.207±0.007	0.012±0.004	0.088±0.007
100.2	-4.1±0.3	0.4±0.2	0.01±0.01	-1.46±0.02	1.211±0.007	1.208±0.007	0.009±0.004	0.086±0.007
110.3	-4.0±0.3	0.4±0.2	0.01±0.01	-1.46±0.02	1.211±0.007	1.208±0.007	0.008±0.004	0.085±0.007
120.5	-4.0±0.3	0.4±0.2	0.01±0.01	-1.45±0.02	1.210±0.007	1.207±0.007	0.008±0.004	0.085±0.007
130.7	-3.9±0.3	0.3±0.2	0.01±0.01	-1.45±0.02	1.210±0.007	1.207±0.007	0.007±0.004	0.083±0.007
140.8	-3.9±0.3	0.2±0.2	0.01±0.01	-1.45±0.02	1.208±0.007	1.206±0.007	0.004±0.004	0.081±0.007

Table B.245 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(130 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.9±0.3	2.8±0.3	-0.63±0.01	-1.47±0.02	0.916±0.006	0.913±0.006	0.044±0.005	0.047±0.005
4.7	-2.6±0.3	2.1±0.3	-0.59±0.01	-1.48±0.02	0.942±0.006	0.941±0.006	0.035±0.005	0.043±0.005
5.7	-2.6±0.3	2.0±0.3	-0.56±0.01	-1.47±0.02	0.954±0.006	0.953±0.006	0.033±0.005	0.043±0.005
6.7	-2.7±0.3	1.8±0.3	-0.55±0.01	-1.48±0.02	0.966±0.006	0.964±0.006	0.030±0.005	0.046±0.005
7.7	-2.9±0.3	1.8±0.3	-0.54±0.01	-1.48±0.02	0.971±0.007	0.970±0.006	0.030±0.005	0.050±0.005
8.7	-3.1±0.3	1.6±0.3	-0.52±0.01	-1.47±0.02	0.976±0.007	0.974±0.007	0.028±0.005	0.052±0.005
9.8	-3.3±0.3	1.6±0.3	-0.51±0.01	-1.47±0.02	0.980±0.007	0.978±0.007	0.027±0.005	0.056±0.005
10.8	-3.4±0.3	1.5±0.3	-0.50±0.01	-1.48±0.02	0.987±0.007	0.985±0.007	0.026±0.005	0.059±0.005
11.8	-3.5±0.3	1.4±0.3	-0.49±0.01	-1.46±0.02	0.984±0.007	0.981±0.007	0.025±0.005	0.061±0.005
12.8	-3.6±0.3	1.3±0.3	-0.47±0.01	-1.47±0.02	0.997±0.007	0.994±0.007	0.023±0.004	0.063±0.006
13.8	-3.8±0.3	1.3±0.3	-0.45±0.01	-1.46±0.02	1.004±0.007	1.001±0.007	0.022±0.004	0.066±0.006
16.4	-3.9±0.3	1.2±0.2	-0.42±0.01	-1.45±0.02	1.015±0.007	1.012±0.007	0.021±0.004	0.069±0.006
18.9	-4.0±0.3	1.2±0.2	-0.40±0.01	-1.46±0.02	1.028±0.007	1.025±0.007	0.021±0.004	0.072±0.006
21.4	-4.1±0.3	1.0±0.2	-0.37±0.01	-1.46±0.02	1.041±0.007	1.038±0.007	0.019±0.004	0.075±0.006
24.0	-4.2±0.3	1.1±0.2	-0.36±0.01	-1.46±0.02	1.052±0.007	1.049±0.007	0.019±0.004	0.076±0.006
26.5	-4.2±0.3	1.0±0.2	-0.33±0.01	-1.45±0.02	1.061±0.007	1.058±0.007	0.019±0.004	0.078±0.006
29.1	-4.3±0.3	1.0±0.2	-0.30±0.01	-1.46±0.02	1.075±0.007	1.072±0.007	0.018±0.004	0.081±0.006
31.6	-4.4±0.3	0.9±0.2	-0.28±0.01	-1.46±0.02	1.084±0.007	1.081±0.007	0.017±0.004	0.083±0.006
34.1	-4.4±0.3	0.9±0.2	-0.27±0.01	-1.46±0.02	1.094±0.007	1.091±0.007	0.017±0.004	0.084±0.006
36.7	-4.4±0.3	0.9±0.2	-0.25±0.01	-1.46±0.02	1.101±0.007	1.098±0.007	0.017±0.004	0.085±0.006
39.2	-4.5±0.3	0.9±0.2	-0.22±0.01	-1.46±0.02	1.112±0.007	1.108±0.007	0.017±0.004	0.088±0.006
44.3	-4.6±0.3	0.8±0.2	-0.19±0.01	-1.47±0.02	1.131±0.007	1.127±0.007	0.016±0.004	0.090±0.006
49.4	-4.6±0.3	0.8±0.2	-0.15±0.01	-1.46±0.02	1.147±0.007	1.143±0.007	0.016±0.004	0.092±0.006
54.5	-4.6±0.3	0.8±0.2	-0.11±0.01	-1.46±0.02	1.159±0.007	1.155±0.007	0.016±0.004	0.094±0.006
59.5	-4.6±0.3	0.8±0.2	-0.08±0.01	-1.47±0.02	1.176±0.007	1.172±0.007	0.016±0.004	0.095±0.006
64.6	-4.6±0.3	0.8±0.2	-0.06±0.01	-1.47±0.02	1.186±0.007	1.182±0.007	0.016±0.004	0.096±0.007
69.7	-4.6±0.3	0.6±0.2	-0.03±0.01	-1.46±0.02	1.197±0.007	1.193±0.007	0.013±0.004	0.096±0.007
74.8	-4.6±0.3	0.6±0.2	-0.02±0.01	-1.47±0.02	1.203±0.007	1.199±0.007	0.013±0.004	0.096±0.007
79.9	-4.5±0.3	0.6±0.2	0.00±0.01	-1.47±0.02	1.209±0.007	1.205±0.007	0.012±0.004	0.095±0.007
84.9	-4.5±0.3	0.5±0.2	0.00±0.01	-1.47±0.02	1.213±0.007	1.210±0.007	0.010±0.004	0.096±0.007
90.0	-4.5±0.3	0.4±0.2	0.01±0.01	-1.47±0.02	1.215±0.007	1.211±0.007	0.009±0.004	0.095±0.007
100.2	-4.4±0.3	0.4±0.2	0.01±0.01	-1.47±0.02	1.217±0.007	1.213±0.007	0.009±0.004	0.093±0.007
110.3	-4.3±0.3	0.4±0.2	0.01±0.01	-1.47±0.02	1.217±0.007	1.214±0.007	0.008±0.004	0.091±0.007
120.5	-4.3±0.3	0.3±0.2	0.01±0.01	-1.47±0.02	1.217±0.007	1.213±0.007	0.006±0.004	0.091±0.007
130.7	-4.2±0.3	0.2±0.2	0.01±0.01	-1.47±0.02	1.216±0.007	1.212±0.007	0.005±0.004	0.090±0.007
140.8	-4.1±0.3	0.2±0.2	0.01±0.01	-1.46±0.02	1.215±0.007	1.212±0.007	0.005±0.004	0.088±0.007

Table B.246 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(130 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.3±0.3	3.0±0.3	-0.61±0.01	-1.49±0.02	0.942±0.006	0.939±0.006	0.049±0.005	0.054±0.005
4.7	-3.0±0.3	2.3±0.3	-0.57±0.01	-1.50±0.02	0.964±0.006	0.962±0.006	0.039±0.005	0.051±0.005
5.7	-3.1±0.3	2.0±0.3	-0.54±0.01	-1.48±0.02	0.970±0.006	0.968±0.006	0.035±0.005	0.052±0.005
6.7	-3.2±0.3	1.9±0.3	-0.53±0.01	-1.51±0.02	0.987±0.007	0.985±0.007	0.033±0.005	0.054±0.005
7.7	-3.3±0.3	1.7±0.3	-0.52±0.01	-1.49±0.02	0.988±0.007	0.986±0.007	0.030±0.005	0.058±0.005
8.7	-3.5±0.3	1.7±0.3	-0.50±0.01	-1.50±0.02	0.997±0.007	0.995±0.007	0.029±0.004	0.061±0.006
9.8	-3.6±0.3	1.5±0.3	-0.49±0.01	-1.50±0.02	1.002±0.007	1.000±0.007	0.025±0.004	0.063±0.006
10.8	-3.8±0.3	1.4±0.3	-0.48±0.01	-1.50±0.02	1.007±0.007	1.005±0.007	0.025±0.004	0.066±0.006
11.8	-3.9±0.3	1.3±0.3	-0.46±0.01	-1.48±0.02	1.010±0.007	1.008±0.007	0.023±0.004	0.068±0.006
12.8	-4.0±0.3	1.2±0.2	-0.45±0.01	-1.48±0.02	1.014±0.007	1.011±0.007	0.022±0.004	0.070±0.006
13.8	-4.1±0.3	1.2±0.2	-0.45±0.01	-1.50±0.02	1.021±0.007	1.019±0.007	0.021±0.004	0.072±0.006
16.4	-4.2±0.3	1.1±0.2	-0.41±0.01	-1.47±0.02	1.030±0.007	1.027±0.007	0.020±0.004	0.075±0.006
18.9	-4.3±0.3	1.0±0.2	-0.39±0.01	-1.48±0.02	1.047±0.007	1.044±0.007	0.019±0.004	0.079±0.006
21.4	-4.4±0.3	0.9±0.2	-0.37±0.01	-1.49±0.02	1.059±0.007	1.055±0.007	0.017±0.004	0.082±0.006
24.0	-4.5±0.3	0.9±0.2	-0.34±0.01	-1.48±0.02	1.068±0.007	1.064±0.007	0.017±0.004	0.084±0.006
26.5	-4.6±0.3	0.9±0.2	-0.32±0.01	-1.47±0.02	1.077±0.007	1.073±0.007	0.016±0.004	0.086±0.006
29.1	-4.6±0.3	0.9±0.2	-0.30±0.01	-1.48±0.02	1.087±0.007	1.083±0.007	0.016±0.004	0.088±0.006
31.6	-4.7±0.3	0.8±0.2	-0.27±0.01	-1.48±0.02	1.099±0.007	1.095±0.007	0.016±0.004	0.090±0.006
34.1	-4.7±0.3	0.8±0.2	-0.26±0.01	-1.49±0.02	1.109±0.007	1.105±0.007	0.015±0.004	0.091±0.006
36.7	-4.8±0.3	0.8±0.2	-0.23±0.01	-1.49±0.02	1.120±0.007	1.116±0.007	0.015±0.004	0.093±0.006
39.2	-4.8±0.3	0.8±0.2	-0.22±0.01	-1.49±0.02	1.128±0.007	1.124±0.007	0.015±0.004	0.095±0.006
44.3	-4.9±0.3	0.7±0.2	-0.17±0.01	-1.48±0.02	1.142±0.007	1.138±0.007	0.014±0.004	0.097±0.006
49.4	-4.9±0.3	0.7±0.2	-0.15±0.01	-1.49±0.02	1.157±0.007	1.153±0.007	0.014±0.004	0.099±0.006
54.5	-4.9±0.3	0.7±0.2	-0.11±0.01	-1.47±0.02	1.168±0.007	1.163±0.007	0.014±0.004	0.100±0.006
59.5	-5.0±0.3	0.6±0.2	-0.09±0.01	-1.50±0.02	1.189±0.007	1.184±0.007	0.013±0.004	0.103±0.007
64.6	-4.9±0.3	0.6±0.2	-0.06±0.01	-1.49±0.02	1.195±0.007	1.191±0.007	0.011±0.004	0.103±0.007
69.7	-4.9±0.3	0.4±0.2	-0.03±0.01	-1.49±0.02	1.207±0.007	1.203±0.007	0.009±0.004	0.104±0.007
74.8	-4.9±0.3	0.4±0.2	-0.02±0.01	-1.50±0.02	1.216±0.007	1.211±0.007	0.009±0.004	0.104±0.007
79.9	-4.9±0.3	0.4±0.2	-0.01±0.01	-1.50±0.02	1.221±0.007	1.217±0.007	0.008±0.004	0.103±0.007
84.9	-4.8±0.3	0.4±0.2	0.00±0.01	-1.50±0.02	1.225±0.007	1.221±0.007	0.008±0.004	0.103±0.007
90.0	-4.8±0.3	0.3±0.2	0.01±0.01	-1.50±0.02	1.227±0.007	1.223±0.007	0.007±0.004	0.102±0.007
100.2	-4.7±0.3	0.2±0.2	0.01±0.01	-1.50±0.02	1.227±0.007	1.223±0.007	0.005±0.004	0.100±0.007
110.3	-4.6±0.3	0.2±0.2	0.01±0.01	-1.50±0.02	1.228±0.007	1.224±0.007	0.004±0.004	0.099±0.007
120.5	-4.6±0.3	0.2±0.2	0.01±0.01	-1.49±0.02	1.228±0.007	1.224±0.007	0.004±0.004	0.098±0.007
130.7	-4.5±0.3	0.1±0.2	0.01±0.01	-1.49±0.02	1.226±0.007	1.223±0.007	0.001±0.004	0.096±0.007
140.8	-4.4±0.3	0.1±0.2	0.01±0.01	-1.49±0.02	1.225±0.007	1.222±0.007	0.002±0.004	0.095±0.007

Table B.247 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(130 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-4.2±0.3	3.0±0.3	-0.60±0.01	-1.51±0.02	0.956±0.006	0.952±0.006	0.050±0.005	0.070±0.005
4.7	-4.0±0.3	2.3±0.3	-0.56±0.01	-1.51±0.02	0.976±0.006	0.973±0.006	0.038±0.005	0.067±0.005
5.7	-3.9±0.3	2.0±0.3	-0.52±0.01	-1.50±0.02	0.986±0.006	0.984±0.006	0.034±0.004	0.066±0.005
6.7	-3.9±0.3	1.9±0.3	-0.51±0.01	-1.47±0.02	0.982±0.006	0.979±0.006	0.032±0.004	0.067±0.005
7.7	-4.1±0.3	1.7±0.3	-0.51±0.01	-1.50±0.02	0.996±0.006	0.993±0.006	0.029±0.004	0.072±0.005
8.7	-4.2±0.3	1.6±0.3	-0.49±0.01	-1.46±0.02	0.989±0.006	0.986±0.006	0.027±0.004	0.073±0.005
9.8	-4.3±0.3	1.5±0.3	-0.49±0.01	-1.50±0.02	1.005±0.006	1.002±0.006	0.026±0.004	0.076±0.006
10.8	-4.4±0.3	1.4±0.2	-0.48±0.01	-1.51±0.02	1.015±0.006	1.012±0.006	0.024±0.004	0.078±0.006
11.8	-4.5±0.3	1.4±0.2	-0.46±0.01	-1.47±0.02	1.006±0.006	1.003±0.006	0.024±0.004	0.079±0.006
12.8	-4.5±0.3	1.2±0.2	-0.46±0.01	-1.50±0.02	1.020±0.006	1.016±0.006	0.021±0.004	0.081±0.006
13.8	-4.6±0.3	1.1±0.2	-0.43±0.01	-1.47±0.02	1.020±0.006	1.017±0.006	0.020±0.004	0.081±0.006
16.4	-4.7±0.3	1.1±0.2	-0.40±0.01	-1.46±0.02	1.031±0.006	1.027±0.006	0.019±0.004	0.084±0.006
18.9	-4.8±0.3	1.0±0.2	-0.37±0.01	-1.44±0.02	1.034±0.006	1.031±0.006	0.018±0.004	0.086±0.006
21.4	-4.9±0.3	0.9±0.2	-0.36±0.01	-1.50±0.02	1.065±0.007	1.061±0.007	0.016±0.004	0.090±0.006
24.0	-5.0±0.3	0.8±0.2	-0.36±0.01	-1.51±0.02	1.072±0.007	1.068±0.007	0.015±0.004	0.093±0.006
26.5	-5.0±0.3	0.7±0.2	-0.31±0.01	-1.47±0.02	1.075±0.007	1.071±0.007	0.014±0.004	0.095±0.006
29.1	-5.1±0.3	0.8±0.2	-0.30±0.01	-1.49±0.02	1.090±0.007	1.085±0.007	0.015±0.004	0.097±0.006
31.6	-5.2±0.3	0.7±0.2	-0.27±0.01	-1.48±0.02	1.102±0.007	1.098±0.007	0.014±0.004	0.099±0.006
34.1	-5.2±0.3	0.6±0.2	-0.27±0.01	-1.49±0.02	1.103±0.007	1.098±0.007	0.012±0.004	0.099±0.006
36.7	-5.2±0.3	0.6±0.2	-0.25±0.01	-1.49±0.02	1.111±0.007	1.106±0.007	0.012±0.004	0.100±0.006
39.2	-5.3±0.3	0.6±0.2	-0.21±0.01	-1.48±0.02	1.127±0.007	1.122±0.007	0.012±0.004	0.103±0.006
44.3	-5.3±0.3	0.5±0.2	-0.17±0.01	-1.48±0.02	1.144±0.007	1.139±0.007	0.010±0.004	0.107±0.006
49.4	-5.4±0.3	0.5±0.2	-0.16±0.01	-1.49±0.02	1.153±0.007	1.148±0.007	0.010±0.004	0.109±0.006
54.5	-5.4±0.3	0.4±0.2	-0.13±0.01	-1.51±0.02	1.176±0.007	1.171±0.007	0.009±0.004	0.111±0.006
59.5	-5.5±0.3	0.4±0.2	-0.08±0.01	-1.49±0.02	1.187±0.007	1.182±0.007	0.008±0.004	0.113±0.007
64.6	-5.5±0.3	0.4±0.2	-0.06±0.01	-1.51±0.02	1.203±0.007	1.198±0.007	0.008±0.004	0.115±0.007
69.7	-5.4±0.3	0.3±0.2	-0.03±0.01	-1.50±0.02	1.211±0.007	1.206±0.007	0.007±0.004	0.115±0.007
74.8	-5.4±0.3	0.2±0.2	-0.02±0.01	-1.50±0.02	1.216±0.007	1.211±0.007	0.005±0.004	0.116±0.007
79.9	-5.4±0.3	0.2±0.2	0.00±0.01	-1.50±0.02	1.225±0.007	1.220±0.007	0.005±0.004	0.115±0.007
84.9	-5.3±0.3	0.2±0.2	0.00±0.01	-1.50±0.02	1.227±0.007	1.222±0.007	0.005±0.004	0.113±0.007
90.0	-5.3±0.3	0.1±0.2	0.01±0.01	-1.50±0.02	1.228±0.007	1.223±0.007	0.002±0.004	0.113±0.007
100.2	-5.2±0.3	0.1±0.2	0.01±0.01	-1.51±0.02	1.232±0.007	1.227±0.007	0.002±0.004	0.111±0.007
110.3	-5.1±0.3	0.0±0.2	0.01±0.01	-1.51±0.02	1.232±0.007	1.227±0.007	0.001±0.004	0.110±0.007
120.5	-5.0±0.3	-0.1±0.2	0.01±0.01	-1.51±0.02	1.233±0.007	1.228±0.007	-0.002±0.004	0.109±0.007
130.7	-5.0±0.3	-0.2±0.2	0.01±0.01	-1.50±0.02	1.231±0.007	1.226±0.007	-0.003±0.004	0.107±0.007
140.8	-4.9±0.3	-0.2±0.2	0.01±0.01	-1.50±0.02	1.229±0.007	1.225±0.007	-0.004±0.004	0.106±0.007

Table B.248 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(130 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-4.8±0.3	3.0±0.3	-0.61±0.01	-1.48±0.02	0.931±0.006	0.927±0.006	0.049±0.005	0.077±0.005
4.7	-4.5±0.3	2.2±0.3	-0.57±0.01	-1.50±0.02	0.963±0.006	0.959±0.006	0.036±0.005	0.075±0.005
5.7	-4.4±0.3	2.0±0.3	-0.54±0.01	-1.48±0.02	0.969±0.006	0.966±0.006	0.033±0.005	0.074±0.005
6.7	-4.4±0.3	1.7±0.3	-0.51±0.01	-1.49±0.02	0.988±0.006	0.984±0.006	0.030±0.004	0.075±0.005
7.7	-4.5±0.3	1.7±0.3	-0.49±0.01	-1.48±0.02	0.994±0.006	0.991±0.006	0.029±0.004	0.077±0.005
8.7	-4.5±0.3	1.5±0.3	-0.48±0.01	-1.49±0.02	1.005±0.006	1.001±0.006	0.026±0.004	0.079±0.006
9.8	-4.6±0.3	1.4±0.3	-0.47±0.01	-1.49±0.02	1.006±0.006	1.003±0.006	0.025±0.004	0.081±0.006
10.8	-4.7±0.3	1.3±0.2	-0.46±0.01	-1.48±0.02	1.012±0.007	1.008±0.006	0.022±0.004	0.083±0.006
11.8	-4.8±0.3	1.2±0.2	-0.44±0.01	-1.48±0.02	1.021±0.007	1.018±0.007	0.021±0.004	0.085±0.006
12.8	-4.8±0.3	1.2±0.2	-0.44±0.01	-1.48±0.02	1.020±0.007	1.016±0.007	0.021±0.004	0.086±0.006
13.8	-4.9±0.3	1.1±0.2	-0.41±0.01	-1.47±0.02	1.029±0.007	1.025±0.007	0.020±0.004	0.088±0.006
16.4	-5.0±0.3	0.9±0.2	-0.41±0.01	-1.48±0.02	1.038±0.007	1.033±0.007	0.016±0.004	0.090±0.006
18.9	-5.1±0.3	0.8±0.2	-0.36±0.01	-1.46±0.02	1.047±0.007	1.043±0.007	0.014±0.004	0.093±0.006
21.4	-5.2±0.3	0.7±0.2	-0.35±0.01	-1.46±0.02	1.057±0.007	1.052±0.007	0.012±0.004	0.095±0.006
24.0	-5.2±0.3	0.6±0.2	-0.34±0.01	-1.47±0.02	1.067±0.007	1.062±0.007	0.011±0.004	0.097±0.006
26.5	-5.3±0.3	0.5±0.2	-0.30±0.01	-1.48±0.02	1.087±0.007	1.082±0.007	0.009±0.004	0.101±0.006
29.1	-5.4±0.3	0.4±0.2	-0.29±0.01	-1.49±0.02	1.097±0.007	1.092±0.007	0.008±0.004	0.103±0.006
31.6	-5.4±0.3	0.4±0.2	-0.27±0.01	-1.48±0.02	1.101±0.007	1.096±0.007	0.008±0.004	0.104±0.006
34.1	-5.4±0.3	0.4±0.2	-0.24±0.01	-1.47±0.02	1.109±0.007	1.104±0.007	0.007±0.004	0.105±0.006
36.7	-5.4±0.3	0.3±0.2	-0.22±0.01	-1.48±0.02	1.120±0.007	1.115±0.007	0.006±0.004	0.106±0.006
39.2	-5.5±0.3	0.2±0.2	-0.20±0.01	-1.48±0.02	1.131±0.007	1.126±0.007	0.004±0.004	0.108±0.006
44.3	-5.5±0.3	0.2±0.2	-0.17±0.01	-1.48±0.02	1.144±0.007	1.139±0.007	0.004±0.004	0.109±0.006
49.4	-5.6±0.3	0.2±0.2	-0.14±0.01	-1.48±0.02	1.156±0.007	1.150±0.007	0.004±0.004	0.113±0.006
54.5	-5.7±0.3	0.0±0.2	-0.10±0.01	-1.48±0.02	1.172±0.007	1.167±0.007	0.001±0.004	0.116±0.006
59.5	-5.7±0.3	0.0±0.2	-0.09±0.01	-1.49±0.02	1.184±0.007	1.178±0.007	0.001±0.004	0.117±0.007
64.6	-5.7±0.3	0.0±0.2	-0.05±0.01	-1.49±0.02	1.197±0.007	1.191±0.007	0.001±0.004	0.120±0.007
69.7	-5.7±0.3	0.0±0.2	-0.03±0.01	-1.48±0.02	1.204±0.007	1.198±0.007	0.001±0.004	0.120±0.007
74.8	-5.7±0.3	0.0±0.2	-0.02±0.01	-1.49±0.02	1.214±0.007	1.208±0.007	0.000±0.004	0.121±0.007
79.9	-5.7±0.3	-0.1±0.2	-0.01±0.01	-1.50±0.02	1.219±0.007	1.213±0.007	-0.001±0.004	0.120±0.007
84.9	-5.5±0.3	-0.1±0.2	0.00±0.01	-1.49±0.02	1.223±0.007	1.217±0.007	-0.001±0.004	0.118±0.007
90.0	-5.5±0.3	0.0±0.2	0.01±0.01	-1.50±0.02	1.226±0.007	1.221±0.007	-0.001±0.004	0.118±0.007
100.2	-5.4±0.3	0.0±0.2	0.01±0.01	-1.50±0.02	1.228±0.007	1.223±0.007	-0.001±0.004	0.117±0.007
110.3	-5.4±0.3	-0.1±0.2	0.01±0.01	-1.50±0.02	1.229±0.007	1.224±0.007	-0.002±0.004	0.115±0.007
120.5	-5.3±0.3	-0.1±0.2	0.01±0.01	-1.50±0.02	1.229±0.007	1.224±0.007	-0.003±0.004	0.114±0.007
130.7	-5.2±0.3	-0.1±0.2	0.01±0.01	-1.50±0.02	1.229±0.007	1.224±0.007	-0.003±0.004	0.112±0.007
140.8	-5.2±0.3	-0.3±0.2	0.01±0.01	-1.50±0.02	1.227±0.007	1.222±0.007	-0.006±0.004	0.111±0.007

Table B.249 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(130 mm,-38 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-4.3±0.3	2.7±0.3	-0.69±0.01	-1.48±0.02	0.887±0.007	0.883±0.007	0.041±0.005	0.066±0.005
4.7	-4.2±0.3	1.8±0.3	-0.63±0.01	-1.48±0.02	0.924±0.006	0.921±0.006	0.030±0.005	0.067±0.005
5.7	-4.2±0.3	1.4±0.3	-0.57±0.01	-1.47±0.02	0.950±0.006	0.947±0.006	0.024±0.005	0.070±0.005
6.7	-4.2±0.3	1.2±0.3	-0.55±0.01	-1.48±0.02	0.967±0.006	0.965±0.006	0.020±0.005	0.071±0.005
7.7	-4.3±0.3	1.0±0.3	-0.51±0.01	-1.49±0.02	0.991±0.007	0.988±0.007	0.017±0.004	0.074±0.005
8.7	-4.4±0.3	0.9±0.3	-0.47±0.01	-1.48±0.02	1.004±0.007	1.001±0.007	0.016±0.004	0.077±0.006
9.8	-4.5±0.3	0.7±0.3	-0.46±0.01	-1.48±0.02	1.007±0.007	1.004±0.007	0.013±0.004	0.078±0.006
10.8	-4.6±0.3	0.7±0.3	-0.43±0.01	-1.45±0.02	1.008±0.007	1.005±0.007	0.012±0.004	0.080±0.006
11.8	-4.6±0.3	0.5±0.2	-0.42±0.01	-1.47±0.02	1.025±0.007	1.022±0.007	0.009±0.004	0.082±0.006
12.8	-4.7±0.3	0.4±0.2	-0.41±0.01	-1.48±0.02	1.032±0.007	1.028±0.007	0.008±0.004	0.084±0.006
13.8	-4.7±0.3	0.4±0.2	-0.40±0.01	-1.47±0.02	1.036±0.007	1.032±0.007	0.007±0.004	0.085±0.006
16.4	-4.8±0.3	0.1±0.2	-0.37±0.01	-1.48±0.02	1.053±0.007	1.049±0.007	0.003±0.004	0.088±0.006
18.9	-4.9±0.3	-0.1±0.2	-0.34±0.01	-1.48±0.02	1.066±0.007	1.062±0.007	-0.001±0.004	0.091±0.006
21.4	-4.9±0.3	-0.3±0.2	-0.32±0.01	-1.49±0.02	1.079±0.007	1.075±0.007	-0.005±0.004	0.092±0.006
24.0	-5.0±0.3	-0.4±0.2	-0.29±0.01	-1.47±0.02	1.084±0.007	1.080±0.007	-0.008±0.004	0.094±0.006
26.5	-5.0±0.3	-0.5±0.2	-0.27±0.01	-1.46±0.02	1.093±0.007	1.089±0.007	-0.009±0.004	0.095±0.006
29.1	-5.0±0.3	-0.6±0.2	-0.26±0.01	-1.50±0.02	1.110±0.007	1.105±0.007	-0.012±0.004	0.097±0.006
31.6	-5.1±0.3	-0.7±0.2	-0.24±0.01	-1.48±0.02	1.111±0.007	1.107±0.007	-0.014±0.004	0.099±0.006
34.1	-5.1±0.3	-0.8±0.2	-0.22±0.01	-1.48±0.02	1.122±0.007	1.118±0.007	-0.016±0.004	0.101±0.006
36.7	-5.1±0.3	-0.9±0.2	-0.20±0.01	-1.48±0.02	1.134±0.007	1.129±0.007	-0.018±0.004	0.102±0.006
39.2	-5.1±0.3	-1.0±0.2	-0.18±0.01	-1.48±0.02	1.140±0.007	1.135±0.007	-0.019±0.004	0.102±0.006
44.3	-5.2±0.3	-0.9±0.2	-0.14±0.01	-1.48±0.02	1.156±0.007	1.151±0.007	-0.019±0.004	0.105±0.006
49.4	-5.2±0.3	-1.0±0.2	-0.13±0.01	-1.49±0.02	1.168±0.007	1.163±0.007	-0.020±0.004	0.106±0.006
54.5	-5.3±0.3	-1.0±0.2	-0.09±0.01	-1.48±0.02	1.179±0.007	1.174±0.007	-0.020±0.004	0.109±0.007
59.5	-5.4±0.3	-1.0±0.2	-0.07±0.01	-1.50±0.02	1.195±0.007	1.190±0.007	-0.020±0.004	0.112±0.007
64.6	-5.4±0.3	-0.9±0.2	-0.05±0.01	-1.50±0.02	1.204±0.007	1.198±0.007	-0.019±0.004	0.112±0.007
69.7	-5.4±0.3	-0.8±0.2	-0.03±0.01	-1.50±0.02	1.212±0.007	1.206±0.007	-0.017±0.004	0.114±0.007
74.8	-5.4±0.3	-0.7±0.2	-0.02±0.01	-1.51±0.02	1.220±0.007	1.215±0.007	-0.014±0.004	0.115±0.007
79.9	-5.3±0.3	-0.7±0.2	0.00±0.01	-1.50±0.02	1.225±0.007	1.219±0.007	-0.014±0.004	0.114±0.007
84.9	-5.2±0.3	-0.6±0.2	0.00±0.01	-1.51±0.02	1.229±0.007	1.223±0.007	-0.013±0.004	0.112±0.007
90.0	-5.2±0.3	-0.4±0.2	0.01±0.01	-1.50±0.02	1.231±0.007	1.226±0.007	-0.009±0.004	0.111±0.007
100.2	-5.2±0.3	-0.4±0.2	0.01±0.01	-1.51±0.02	1.233±0.007	1.228±0.007	-0.008±0.004	0.111±0.007
110.3	-5.2±0.3	-0.3±0.2	0.01±0.01	-1.51±0.02	1.234±0.007	1.229±0.007	-0.007±0.004	0.111±0.007
120.5	-5.1±0.3	-0.3±0.2	0.01±0.01	-1.51±0.02	1.235±0.007	1.230±0.007	-0.007±0.004	0.109±0.007
130.7	-5.1±0.3	-0.4±0.2	0.01±0.01	-1.51±0.02	1.235±0.007	1.230±0.007	-0.008±0.004	0.109±0.007
140.8	-5.0±0.3	-0.4±0.2	0.01±0.01	-1.51±0.02	1.235±0.007	1.230±0.007	-0.009±0.004	0.107±0.007

Table B.250 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(190 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.9±0.3	1.1±0.5	-0.74±0.01	-1.28±0.02	0.739±0.007	0.738±0.007	0.015±0.006	0.038±0.004
4.7	-2.7±0.3	0.4±0.4	-0.70±0.01	-1.27±0.02	0.758±0.007	0.758±0.007	0.006±0.006	0.035±0.004
5.7	-2.4±0.3	0.3±0.4	-0.66±0.01	-1.27±0.02	0.777±0.007	0.776±0.007	0.004±0.006	0.033±0.004
6.7	-2.2±0.3	0.1±0.4	-0.64±0.01	-1.27±0.02	0.794±0.007	0.794±0.007	0.001±0.005	0.031±0.004
7.7	-2.1±0.3	0.0±0.4	-0.62±0.01	-1.28±0.02	0.809±0.006	0.808±0.006	0.000±0.005	0.030±0.004
8.7	-2.0±0.3	0.0±0.4	-0.59±0.01	-1.26±0.02	0.823±0.006	0.822±0.006	0.000±0.005	0.029±0.005
9.8	-1.9±0.3	-0.1±0.3	-0.57±0.01	-1.28±0.02	0.847±0.006	0.846±0.006	-0.001±0.005	0.028±0.005
10.8	-1.9±0.3	0.0±0.3	-0.57±0.01	-1.28±0.02	0.842±0.006	0.842±0.006	0.000±0.005	0.027±0.005
11.8	-1.8±0.3	-0.1±0.3	-0.54±0.01	-1.27±0.02	0.855±0.006	0.855±0.006	-0.001±0.005	0.027±0.005
12.8	-1.8±0.3	0.0±0.3	-0.54±0.01	-1.27±0.02	0.857±0.006	0.857±0.006	0.000±0.005	0.027±0.005
13.8	-1.7±0.3	0.0±0.3	-0.51±0.01	-1.27±0.02	0.872±0.006	0.872±0.006	0.000±0.005	0.025±0.005
16.4	-1.6±0.3	0.0±0.3	-0.47±0.01	-1.28±0.02	0.896±0.006	0.896±0.006	-0.001±0.005	0.026±0.005
18.9	-1.6±0.3	0.0±0.3	-0.45±0.01	-1.28±0.02	0.910±0.006	0.910±0.006	0.000±0.005	0.025±0.005
21.4	-1.6±0.3	0.1±0.3	-0.42±0.01	-1.27±0.02	0.924±0.006	0.923±0.006	0.001±0.005	0.025±0.005
24.0	-1.6±0.3	0.1±0.3	-0.39±0.01	-1.27±0.02	0.936±0.006	0.935±0.006	0.002±0.005	0.026±0.005
26.5	-1.5±0.3	0.1±0.3	-0.36±0.01	-1.26±0.02	0.949±0.006	0.949±0.006	0.001±0.005	0.025±0.005
29.1	-1.5±0.3	0.1±0.3	-0.35±0.01	-1.28±0.02	0.965±0.006	0.965±0.006	0.002±0.004	0.025±0.005
31.6	-1.5±0.3	0.1±0.3	-0.32±0.01	-1.27±0.02	0.975±0.006	0.975±0.006	0.002±0.004	0.025±0.005
34.1	-1.5±0.3	0.1±0.3	-0.28±0.01	-1.26±0.02	0.991±0.006	0.991±0.006	0.002±0.004	0.025±0.005
36.7	-1.5±0.3	0.2±0.2	-0.27±0.01	-1.28±0.02	1.005±0.006	1.005±0.006	0.003±0.004	0.026±0.006
39.2	-1.5±0.3	0.2±0.2	-0.25±0.01	-1.27±0.02	1.014±0.006	1.013±0.006	0.003±0.004	0.026±0.006
44.3	-1.4±0.3	0.2±0.2	-0.19±0.01	-1.26±0.02	1.032±0.006	1.032±0.006	0.004±0.004	0.026±0.006
49.4	-1.4±0.3	0.3±0.2	-0.17±0.01	-1.28±0.02	1.053±0.006	1.053±0.006	0.006±0.004	0.026±0.006
54.5	-1.3±0.3	0.4±0.2	-0.13±0.01	-1.27±0.02	1.071±0.006	1.070±0.006	0.007±0.004	0.025±0.006
59.5	-1.3±0.3	0.4±0.2	-0.09±0.01	-1.27±0.02	1.084±0.007	1.083±0.007	0.007±0.004	0.026±0.006
64.6	-1.3±0.3	0.4±0.2	-0.06±0.01	-1.26±0.02	1.100±0.007	1.099±0.007	0.007±0.004	0.025±0.006
69.7	-1.3±0.3	0.4±0.2	-0.03±0.01	-1.26±0.02	1.107±0.007	1.107±0.007	0.008±0.004	0.025±0.006
74.8	-1.3±0.3	0.4±0.2	-0.02±0.01	-1.26±0.02	1.116±0.007	1.116±0.007	0.008±0.004	0.025±0.006
79.9	-1.2±0.3	0.4±0.2	0.00±0.01	-1.26±0.02	1.123±0.007	1.123±0.007	0.008±0.004	0.024±0.006
84.9	-1.3±0.3	0.4±0.2	0.01±0.01	-1.26±0.02	1.124±0.007	1.124±0.007	0.008±0.004	0.025±0.006
90.0	-1.2±0.3	0.4±0.2	0.01±0.01	-1.26±0.02	1.127±0.007	1.126±0.007	0.008±0.004	0.023±0.006
100.2	-1.1±0.3	0.4±0.2	0.01±0.01	-1.26±0.02	1.127±0.007	1.127±0.007	0.008±0.004	0.022±0.006
110.3	-1.1±0.3	0.4±0.2	0.01±0.01	-1.26±0.02	1.127±0.007	1.127±0.007	0.008±0.004	0.022±0.006
120.5	-1.1±0.3	0.4±0.2	0.01±0.01	-1.26±0.02	1.127±0.007	1.126±0.007	0.007±0.004	0.021±0.006
130.7	-1.0±0.3	0.3±0.2	0.01±0.01	-1.26±0.02	1.126±0.007	1.126±0.007	0.007±0.004	0.020±0.006
140.8	-1.1±0.3	0.4±0.2	0.01±0.01	-1.25±0.02	1.125±0.007	1.124±0.007	0.007±0.004	0.022±0.006

Table B.251 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(190 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.9±0.3	1.2±0.5	-0.73±0.01	-1.28±0.02	0.742±0.007	0.741±0.007	0.015±0.006	0.037±0.004
4.7	-2.7±0.3	0.5±0.4	-0.68±0.01	-1.27±0.02	0.767±0.007	0.766±0.007	0.006±0.006	0.036±0.004
5.7	-2.3±0.3	0.3±0.4	-0.66±0.01	-1.29±0.02	0.795±0.007	0.794±0.007	0.005±0.005	0.032±0.004
6.7	-2.1±0.3	0.2±0.4	-0.62±0.01	-1.28±0.02	0.811±0.006	0.811±0.006	0.002±0.005	0.030±0.004
7.7	-2.0±0.3	0.0±0.4	-0.60±0.01	-1.28±0.02	0.826±0.006	0.825±0.006	0.000±0.005	0.029±0.005
8.7	-1.9±0.3	0.0±0.4	-0.58±0.01	-1.28±0.02	0.835±0.006	0.834±0.006	0.000±0.005	0.027±0.005
9.8	-1.9±0.3	0.0±0.3	-0.57±0.01	-1.28±0.02	0.842±0.006	0.841±0.006	0.000±0.005	0.028±0.005
10.8	-1.8±0.3	0.0±0.3	-0.55±0.01	-1.29±0.02	0.860±0.006	0.860±0.006	0.000±0.005	0.027±0.005
11.8	-1.8±0.3	0.0±0.3	-0.54±0.01	-1.29±0.02	0.864±0.006	0.864±0.006	0.000±0.005	0.027±0.005
12.8	-1.7±0.3	0.0±0.3	-0.52±0.01	-1.28±0.02	0.871±0.006	0.870±0.006	0.000±0.005	0.026±0.005
13.8	-1.7±0.3	0.0±0.3	-0.51±0.01	-1.28±0.02	0.880±0.006	0.879±0.006	0.001±0.005	0.026±0.005
16.4	-1.6±0.3	0.0±0.3	-0.49±0.01	-1.29±0.02	0.896±0.006	0.896±0.006	0.000±0.005	0.026±0.005
18.9	-1.7±0.3	0.1±0.3	-0.44±0.01	-1.27±0.02	0.912±0.006	0.911±0.006	0.001±0.005	0.027±0.005
21.4	-1.7±0.3	0.1±0.3	-0.42±0.01	-1.29±0.02	0.932±0.006	0.932±0.006	0.001±0.005	0.028±0.005
24.0	-1.7±0.3	0.1±0.3	-0.39±0.01	-1.28±0.02	0.944±0.006	0.943±0.006	0.002±0.005	0.028±0.005
26.5	-1.7±0.3	0.1±0.3	-0.37±0.01	-1.28±0.02	0.956±0.006	0.956±0.006	0.002±0.005	0.029±0.005
29.1	-1.8±0.3	0.2±0.3	-0.34±0.01	-1.28±0.02	0.967±0.006	0.966±0.006	0.003±0.004	0.030±0.005
31.6	-1.7±0.3	0.2±0.3	-0.32±0.01	-1.28±0.02	0.982±0.006	0.981±0.006	0.003±0.004	0.030±0.005
34.1	-1.7±0.3	0.3±0.3	-0.29±0.01	-1.27±0.02	0.991±0.006	0.991±0.006	0.005±0.004	0.030±0.005
36.7	-1.7±0.3	0.3±0.2	-0.27±0.01	-1.27±0.02	0.999±0.006	0.999±0.006	0.005±0.004	0.029±0.006
39.2	-1.6±0.3	0.3±0.2	-0.25±0.01	-1.28±0.02	1.013±0.006	1.013±0.006	0.006±0.004	0.029±0.006
44.3	-1.6±0.3	0.3±0.2	-0.21±0.01	-1.27±0.02	1.033±0.006	1.033±0.006	0.006±0.004	0.029±0.006
49.4	-1.6±0.3	0.4±0.2	-0.17±0.01	-1.28±0.02	1.053±0.006	1.053±0.006	0.007±0.004	0.030±0.006
54.5	-1.6±0.3	0.4±0.2	-0.13±0.01	-1.28±0.02	1.073±0.006	1.072±0.006	0.007±0.004	0.030±0.006
59.5	-1.5±0.3	0.4±0.2	-0.09±0.01	-1.27±0.02	1.087±0.007	1.086±0.007	0.007±0.004	0.029±0.006
64.6	-1.5±0.3	0.4±0.2	-0.06±0.01	-1.27±0.02	1.101±0.007	1.101±0.007	0.007±0.004	0.028±0.006
69.7	-1.4±0.3	0.4±0.2	-0.03±0.01	-1.26±0.02	1.110±0.007	1.109±0.007	0.007±0.004	0.027±0.006
74.8	-1.4±0.3	0.4±0.2	-0.01±0.01	-1.27±0.02	1.120±0.007	1.120±0.007	0.008±0.004	0.027±0.006
79.9	-1.4±0.3	0.4±0.2	0.00±0.01	-1.27±0.02	1.125±0.007	1.125±0.007	0.008±0.004	0.027±0.006
84.9	-1.4±0.3	0.4±0.2	0.00±0.01	-1.27±0.02	1.128±0.007	1.128±0.007	0.008±0.004	0.028±0.006
90.0	-1.4±0.3	0.4±0.2	0.01±0.01	-1.27±0.02	1.130±0.007	1.130±0.007	0.008±0.004	0.028±0.006
100.2	-1.4±0.3	0.4±0.2	0.01±0.01	-1.27±0.02	1.130±0.007	1.130±0.007	0.007±0.004	0.027±0.006
110.3	-1.3±0.3	0.3±0.2	0.01±0.01	-1.27±0.02	1.130±0.007	1.130±0.007	0.006±0.004	0.025±0.006
120.5	-1.2±0.3	0.2±0.2	0.01±0.01	-1.26±0.02	1.129±0.007	1.129±0.007	0.004±0.004	0.024±0.006
130.7	-1.1±0.3	0.2±0.2	0.01±0.01	-1.26±0.02	1.129±0.007	1.129±0.007	0.004±0.004	0.023±0.006
140.8	-1.2±0.3	0.2±0.2	0.01±0.01	-1.26±0.02	1.129±0.007	1.128±0.007	0.003±0.004	0.024±0.006

Table B.252 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(190 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.8±0.3	1.3±0.4	-0.72±0.01	-1.29±0.02	0.750±0.007	0.748±0.007	0.016±0.006	0.049±0.004
4.7	-3.4±0.3	0.4±0.4	-0.68±0.01	-1.29±0.02	0.778±0.007	0.777±0.007	0.006±0.006	0.046±0.004
5.7	-3.1±0.3	0.3±0.4	-0.65±0.01	-1.29±0.02	0.800±0.007	0.799±0.007	0.005±0.005	0.044±0.004
6.7	-2.8±0.3	0.1±0.4	-0.62±0.01	-1.29±0.02	0.821±0.006	0.820±0.006	0.001±0.005	0.040±0.005
7.7	-2.6±0.3	0.0±0.4	-0.60±0.01	-1.29±0.02	0.831±0.006	0.830±0.006	0.000±0.005	0.038±0.005
8.7	-2.5±0.3	0.0±0.3	-0.58±0.01	-1.30±0.02	0.850±0.006	0.849±0.006	0.000±0.005	0.037±0.005
9.8	-2.4±0.3	0.0±0.3	-0.56±0.01	-1.29±0.02	0.857±0.006	0.856±0.006	0.000±0.005	0.036±0.005
10.8	-2.3±0.3	0.0±0.3	-0.54±0.01	-1.30±0.02	0.869±0.006	0.868±0.006	0.001±0.005	0.035±0.005
11.8	-2.3±0.3	0.0±0.3	-0.53±0.01	-1.29±0.02	0.873±0.006	0.872±0.006	0.000±0.005	0.035±0.005
12.8	-2.3±0.3	0.0±0.3	-0.51±0.01	-1.30±0.02	0.885±0.006	0.884±0.006	0.001±0.005	0.036±0.005
13.8	-2.3±0.3	0.0±0.3	-0.50±0.01	-1.30±0.02	0.894±0.006	0.893±0.006	0.000±0.005	0.036±0.005
16.4	-2.3±0.3	0.0±0.3	-0.46±0.01	-1.30±0.02	0.913±0.006	0.912±0.006	0.001±0.005	0.036±0.005
18.9	-2.3±0.3	0.1±0.3	-0.44±0.01	-1.29±0.02	0.926±0.006	0.925±0.006	0.001±0.005	0.036±0.005
21.4	-2.2±0.3	0.1±0.3	-0.40±0.01	-1.29±0.02	0.944±0.006	0.943±0.006	0.002±0.005	0.036±0.005
24.0	-2.2±0.3	0.1±0.3	-0.39±0.01	-1.29±0.02	0.953±0.006	0.953±0.006	0.001±0.005	0.036±0.005
26.5	-2.2±0.3	0.1±0.3	-0.36±0.01	-1.30±0.02	0.970±0.006	0.969±0.006	0.003±0.004	0.038±0.005
29.1	-2.2±0.3	0.2±0.3	-0.33±0.01	-1.30±0.02	0.981±0.006	0.981±0.006	0.003±0.004	0.038±0.005
31.6	-2.2±0.3	0.2±0.3	-0.30±0.01	-1.28±0.02	0.988±0.006	0.988±0.006	0.003±0.004	0.038±0.005
34.1	-2.2±0.3	0.2±0.2	-0.28±0.01	-1.28±0.02	1.001±0.006	1.000±0.006	0.003±0.004	0.039±0.006
36.7	-2.2±0.3	0.2±0.2	-0.26±0.01	-1.28±0.02	1.012±0.006	1.011±0.006	0.004±0.004	0.038±0.006
39.2	-2.2±0.3	0.3±0.2	-0.24±0.01	-1.29±0.02	1.023±0.006	1.022±0.006	0.005±0.004	0.039±0.006
44.3	-2.1±0.3	0.4±0.2	-0.19±0.01	-1.28±0.02	1.043±0.006	1.042±0.006	0.007±0.004	0.039±0.006
49.4	-2.1±0.3	0.4±0.2	-0.17±0.01	-1.30±0.02	1.061±0.006	1.061±0.006	0.007±0.004	0.040±0.006
54.5	-2.1±0.3	0.4±0.2	-0.12±0.01	-1.28±0.02	1.077±0.007	1.076±0.007	0.007±0.004	0.040±0.006
59.5	-2.1±0.3	0.4±0.2	-0.08±0.01	-1.28±0.02	1.092±0.007	1.091±0.007	0.007±0.004	0.039±0.006
64.6	-2.0±0.3	0.4±0.2	-0.06±0.01	-1.28±0.02	1.106±0.007	1.106±0.007	0.008±0.004	0.039±0.006
69.7	-2.0±0.3	0.4±0.2	-0.03±0.01	-1.28±0.02	1.119±0.007	1.118±0.007	0.007±0.004	0.039±0.006
74.8	-2.0±0.3	0.4±0.2	-0.01±0.01	-1.28±0.02	1.123±0.007	1.123±0.007	0.008±0.004	0.039±0.006
79.9	-2.0±0.3	0.4±0.2	0.00±0.01	-1.28±0.02	1.130±0.007	1.130±0.007	0.008±0.004	0.039±0.006
84.9	-2.0±0.3	0.4±0.2	0.01±0.01	-1.28±0.02	1.133±0.007	1.132±0.007	0.008±0.004	0.039±0.006
90.0	-1.9±0.3	0.4±0.2	0.01±0.01	-1.28±0.02	1.134±0.007	1.133±0.007	0.008±0.004	0.037±0.006
100.2	-2.0±0.3	0.4±0.2	0.01±0.01	-1.27±0.02	1.133±0.007	1.133±0.007	0.007±0.004	0.039±0.006
110.3	-1.9±0.3	0.3±0.2	0.01±0.01	-1.28±0.02	1.134±0.007	1.134±0.007	0.006±0.004	0.037±0.006
120.5	-1.8±0.3	0.2±0.2	0.01±0.01	-1.27±0.02	1.134±0.007	1.133±0.007	0.005±0.004	0.035±0.006
130.7	-1.7±0.3	0.2±0.2	0.01±0.01	-1.27±0.02	1.134±0.007	1.133±0.007	0.004±0.004	0.034±0.006
140.8	-1.8±0.3	0.1±0.2	0.01±0.01	-1.27±0.02	1.132±0.007	1.132±0.007	0.001±0.004	0.035±0.006

Table B.253 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(190 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-4.5±0.3	1.3±0.4	-0.74±0.01	-1.30±0.02	0.747±0.007	0.744±0.007	0.017±0.006	0.059±0.004
4.7	-4.1±0.3	0.5±0.4	-0.71±0.01	-1.31±0.02	0.778±0.007	0.776±0.007	0.006±0.006	0.056±0.004
5.7	-3.7±0.3	0.3±0.4	-0.67±0.01	-1.30±0.02	0.798±0.007	0.797±0.007	0.005±0.005	0.051±0.004
6.7	-3.4±0.3	0.3±0.4	-0.63±0.01	-1.31±0.02	0.820±0.006	0.819±0.006	0.005±0.005	0.049±0.005
7.7	-3.3±0.3	0.2±0.4	-0.61±0.01	-1.31±0.02	0.834±0.006	0.833±0.006	0.002±0.005	0.047±0.005
8.7	-3.1±0.3	0.1±0.3	-0.60±0.01	-1.31±0.02	0.848±0.006	0.846±0.006	0.001±0.005	0.046±0.005
9.8	-3.0±0.3	0.1±0.3	-0.58±0.01	-1.31±0.02	0.858±0.006	0.857±0.006	0.001±0.005	0.045±0.005
10.8	-3.0±0.3	0.2±0.3	-0.56±0.01	-1.31±0.02	0.866±0.006	0.865±0.006	0.002±0.005	0.046±0.005
11.8	-3.0±0.3	0.2±0.3	-0.55±0.01	-1.31±0.02	0.872±0.006	0.871±0.006	0.002±0.005	0.046±0.005
12.8	-2.9±0.3	0.1±0.3	-0.53±0.01	-1.31±0.02	0.884±0.006	0.883±0.006	0.001±0.005	0.045±0.005
13.8	-2.9±0.3	0.2±0.3	-0.52±0.01	-1.32±0.02	0.889±0.006	0.888±0.006	0.003±0.005	0.045±0.005
16.4	-2.9±0.3	0.3±0.3	-0.49±0.01	-1.32±0.02	0.910±0.006	0.909±0.006	0.005±0.005	0.046±0.005
18.9	-2.9±0.3	0.2±0.3	-0.46±0.01	-1.32±0.02	0.926±0.006	0.924±0.006	0.003±0.005	0.047±0.005
21.4	-2.9±0.3	0.3±0.3	-0.43±0.01	-1.31±0.02	0.940±0.006	0.939±0.006	0.005±0.005	0.048±0.005
24.0	-2.9±0.3	0.3±0.3	-0.41±0.01	-1.32±0.02	0.955±0.006	0.953±0.006	0.005±0.005	0.048±0.005
26.5	-2.9±0.3	0.4±0.3	-0.37±0.01	-1.31±0.02	0.968±0.006	0.967±0.006	0.006±0.004	0.048±0.005
29.1	-2.8±0.3	0.4±0.3	-0.35±0.01	-1.31±0.02	0.983±0.006	0.981±0.006	0.006±0.004	0.048±0.005
31.6	-2.8±0.3	0.4±0.3	-0.32±0.01	-1.29±0.02	0.987±0.006	0.986±0.006	0.007±0.004	0.049±0.005
34.1	-2.8±0.3	0.4±0.2	-0.30±0.01	-1.30±0.02	1.000±0.006	0.999±0.006	0.007±0.004	0.049±0.006
36.7	-2.8±0.3	0.4±0.2	-0.28±0.01	-1.31±0.02	1.017±0.006	1.015±0.006	0.007±0.004	0.049±0.006
39.2	-2.8±0.3	0.4±0.2	-0.26±0.01	-1.31±0.02	1.022±0.006	1.021±0.006	0.008±0.004	0.049±0.006
44.3	-2.8±0.3	0.4±0.2	-0.22±0.01	-1.31±0.02	1.044±0.006	1.042±0.006	0.008±0.004	0.050±0.006
49.4	-2.7±0.3	0.5±0.2	-0.17±0.01	-1.30±0.02	1.062±0.006	1.061±0.006	0.008±0.004	0.050±0.006
54.5	-2.7±0.3	0.4±0.2	-0.14±0.01	-1.31±0.02	1.084±0.007	1.083±0.007	0.008±0.004	0.051±0.006
59.5	-2.7±0.3	0.4±0.2	-0.10±0.01	-1.30±0.02	1.096±0.007	1.095±0.007	0.008±0.004	0.052±0.006
64.6	-2.6±0.3	0.4±0.2	-0.07±0.01	-1.30±0.02	1.111±0.007	1.110±0.007	0.008±0.004	0.051±0.006
69.7	-2.6±0.3	0.5±0.2	-0.04±0.01	-1.30±0.02	1.122±0.007	1.121±0.007	0.010±0.004	0.052±0.006
74.8	-2.6±0.3	0.5±0.2	-0.03±0.01	-1.30±0.02	1.131±0.007	1.130±0.007	0.009±0.004	0.052±0.006
79.9	-2.6±0.3	0.4±0.2	-0.01±0.01	-1.29±0.02	1.133±0.007	1.132±0.007	0.009±0.004	0.052±0.006
84.9	-2.6±0.3	0.5±0.2	0.00±0.01	-1.30±0.02	1.140±0.007	1.139±0.007	0.010±0.004	0.052±0.006
90.0	-2.6±0.3	0.4±0.2	0.01±0.01	-1.30±0.02	1.142±0.007	1.141±0.007	0.009±0.004	0.051±0.006
100.2	-2.5±0.3	0.4±0.2	0.01±0.01	-1.29±0.02	1.142±0.007	1.141±0.007	0.009±0.004	0.050±0.006
110.3	-2.5±0.3	0.4±0.2	0.01±0.01	-1.29±0.02	1.141±0.007	1.140±0.007	0.007±0.004	0.049±0.006
120.5	-2.4±0.3	0.3±0.2	0.01±0.01	-1.29±0.02	1.142±0.007	1.141±0.007	0.006±0.004	0.048±0.006
130.7	-2.4±0.3	0.1±0.2	0.01±0.01	-1.29±0.02	1.140±0.007	1.139±0.007	0.002±0.004	0.048±0.006
140.8	-2.3±0.3	0.1±0.2	0.01±0.01	-1.29±0.02	1.140±0.007	1.139±0.007	0.002±0.004	0.046±0.006

Table B.254 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(190 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-5.2±0.3	1.3±0.4	-0.74±0.01	-1.30±0.02	0.748±0.007	0.744±0.007	0.017±0.006	0.068±0.004
4.7	-4.7±0.3	0.5±0.4	-0.69±0.01	-1.30±0.02	0.782±0.007	0.779±0.007	0.007±0.006	0.064±0.004
5.7	-4.2±0.3	0.4±0.4	-0.66±0.01	-1.33±0.02	0.814±0.006	0.812±0.006	0.006±0.005	0.060±0.005
6.7	-4.0±0.3	0.3±0.4	-0.63±0.01	-1.31±0.02	0.827±0.006	0.825±0.006	0.005±0.005	0.058±0.005
7.7	-3.8±0.3	0.4±0.3	-0.61±0.01	-1.32±0.02	0.842±0.006	0.840±0.006	0.005±0.005	0.057±0.005
8.7	-3.7±0.3	0.4±0.3	-0.58±0.01	-1.31±0.02	0.850±0.006	0.848±0.006	0.005±0.005	0.054±0.005
9.8	-3.6±0.3	0.3±0.3	-0.57±0.01	-1.31±0.02	0.857±0.006	0.855±0.006	0.005±0.005	0.054±0.005
10.8	-3.6±0.3	0.4±0.3	-0.56±0.01	-1.32±0.02	0.875±0.006	0.873±0.006	0.006±0.005	0.055±0.005
11.8	-3.6±0.3	0.4±0.3	-0.53±0.01	-1.30±0.02	0.879±0.006	0.877±0.006	0.005±0.005	0.056±0.005
12.8	-3.6±0.3	0.4±0.3	-0.53±0.01	-1.31±0.02	0.886±0.006	0.884±0.006	0.006±0.005	0.056±0.005
13.8	-3.7±0.3	0.4±0.3	-0.52±0.01	-1.31±0.02	0.887±0.006	0.886±0.006	0.006±0.005	0.057±0.005
16.4	-3.7±0.3	0.4±0.3	-0.49±0.01	-1.30±0.02	0.904±0.006	0.902±0.006	0.006±0.005	0.059±0.005
18.9	-3.8±0.3	0.4±0.3	-0.47±0.01	-1.32±0.02	0.922±0.006	0.920±0.006	0.007±0.005	0.061±0.005
21.4	-3.9±0.3	0.5±0.3	-0.42±0.01	-1.29±0.02	0.930±0.006	0.927±0.006	0.008±0.005	0.063±0.005
24.0	-3.9±0.3	0.5±0.3	-0.41±0.01	-1.31±0.02	0.952±0.006	0.950±0.006	0.008±0.005	0.065±0.005
26.5	-3.8±0.3	0.5±0.3	-0.37±0.01	-1.31±0.02	0.967±0.006	0.965±0.006	0.008±0.004	0.064±0.005
29.1	-3.8±0.3	0.6±0.3	-0.35±0.01	-1.31±0.02	0.979±0.006	0.977±0.006	0.010±0.004	0.065±0.005
31.6	-3.8±0.3	0.6±0.3	-0.33±0.01	-1.30±0.02	0.987±0.006	0.985±0.006	0.011±0.004	0.065±0.005
34.1	-3.8±0.3	0.6±0.2	-0.31±0.01	-1.31±0.02	0.998±0.006	0.996±0.006	0.011±0.004	0.065±0.006
36.7	-3.8±0.3	0.6±0.2	-0.28±0.01	-1.30±0.02	1.012±0.006	1.010±0.006	0.011±0.004	0.066±0.006
39.2	-3.8±0.3	0.6±0.2	-0.27±0.01	-1.31±0.02	1.021±0.006	1.019±0.006	0.011±0.004	0.067±0.006
44.3	-3.7±0.3	0.7±0.2	-0.22±0.01	-1.31±0.02	1.040±0.006	1.038±0.006	0.012±0.004	0.067±0.006
49.4	-3.7±0.3	0.7±0.2	-0.19±0.01	-1.32±0.02	1.066±0.006	1.064±0.006	0.012±0.004	0.068±0.006
54.5	-3.7±0.3	0.6±0.2	-0.14±0.01	-1.30±0.02	1.076±0.006	1.074±0.006	0.012±0.004	0.069±0.006
59.5	-3.7±0.3	0.6±0.2	-0.10±0.01	-1.31±0.02	1.098±0.007	1.096±0.007	0.012±0.004	0.070±0.006
64.6	-3.6±0.3	0.6±0.2	-0.08±0.01	-1.30±0.02	1.106±0.007	1.104±0.007	0.012±0.004	0.070±0.006
69.7	-3.6±0.3	0.6±0.2	-0.04±0.01	-1.29±0.02	1.117±0.007	1.114±0.007	0.012±0.004	0.070±0.006
74.8	-3.6±0.3	0.6±0.2	-0.03±0.01	-1.30±0.02	1.126±0.007	1.124±0.007	0.012±0.004	0.071±0.006
79.9	-3.5±0.3	0.6±0.2	-0.01±0.01	-1.30±0.02	1.137±0.007	1.134±0.007	0.012±0.004	0.070±0.006
84.9	-3.5±0.3	0.6±0.2	0.00±0.01	-1.30±0.02	1.137±0.007	1.135±0.007	0.011±0.004	0.070±0.006
90.0	-3.5±0.3	0.5±0.2	0.01±0.01	-1.29±0.02	1.140±0.007	1.138±0.007	0.009±0.004	0.070±0.006
100.2	-3.5±0.3	0.4±0.2	0.01±0.01	-1.29±0.02	1.142±0.007	1.140±0.007	0.008±0.004	0.070±0.006
110.3	-3.5±0.3	0.4±0.2	0.01±0.01	-1.29±0.02	1.143±0.007	1.141±0.007	0.008±0.004	0.069±0.006
120.5	-3.4±0.3	0.2±0.2	0.01±0.01	-1.29±0.02	1.142±0.007	1.140±0.007	0.004±0.004	0.068±0.006
130.7	-3.4±0.3	0.1±0.2	0.01±0.01	-1.29±0.02	1.142±0.007	1.140±0.007	0.002±0.004	0.068±0.006
140.8	-3.4±0.3	0.0±0.2	0.01±0.01	-1.29±0.02	1.141±0.007	1.139±0.007	0.000±0.004	0.067±0.006

Table B.255 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(190 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-5.7±0.3	1.3±0.4	-0.75±0.01	-1.31±0.02	0.750±0.007	0.746±0.007	0.017±0.006	0.075±0.004
4.7	-5.0±0.3	0.6±0.4	-0.70±0.01	-1.32±0.02	0.789±0.007	0.786±0.007	0.009±0.005	0.069±0.004
5.7	-4.7±0.3	0.5±0.4	-0.65±0.01	-1.31±0.02	0.814±0.006	0.812±0.006	0.007±0.005	0.066±0.005
6.7	-4.3±0.3	0.4±0.4	-0.62±0.01	-1.32±0.02	0.836±0.006	0.833±0.006	0.006±0.005	0.063±0.005
7.7	-4.2±0.3	0.4±0.3	-0.60±0.01	-1.33±0.02	0.854±0.006	0.851±0.006	0.006±0.005	0.062±0.005
8.7	-4.1±0.3	0.4±0.3	-0.58±0.01	-1.31±0.02	0.856±0.006	0.854±0.006	0.006±0.005	0.061±0.005
9.8	-4.0±0.3	0.4±0.3	-0.57±0.01	-1.33±0.02	0.871±0.006	0.869±0.006	0.006±0.005	0.061±0.005
10.8	-4.1±0.3	0.5±0.3	-0.55±0.01	-1.33±0.02	0.880±0.006	0.878±0.006	0.007±0.005	0.063±0.005
11.8	-4.1±0.3	0.4±0.3	-0.53±0.01	-1.31±0.02	0.883±0.006	0.881±0.006	0.007±0.005	0.063±0.005
12.8	-4.2±0.3	0.5±0.3	-0.52±0.01	-1.32±0.02	0.890±0.006	0.888±0.006	0.007±0.005	0.065±0.005
13.8	-4.3±0.3	0.5±0.3	-0.51±0.01	-1.32±0.02	0.896±0.006	0.894±0.006	0.007±0.005	0.067±0.005
16.4	-4.4±0.3	0.5±0.3	-0.49±0.01	-1.33±0.02	0.912±0.006	0.910±0.006	0.008±0.005	0.070±0.005
18.9	-4.4±0.3	0.5±0.3	-0.45±0.01	-1.32±0.02	0.932±0.006	0.929±0.006	0.008±0.005	0.072±0.005
21.4	-4.4±0.3	0.6±0.3	-0.42±0.01	-1.31±0.02	0.942±0.006	0.939±0.006	0.009±0.005	0.073±0.005
24.0	-4.6±0.3	0.6±0.3	-0.40±0.01	-1.30±0.02	0.951±0.006	0.948±0.006	0.010±0.005	0.075±0.005
26.5	-4.5±0.3	0.7±0.3	-0.39±0.01	-1.32±0.02	0.968±0.006	0.965±0.006	0.012±0.004	0.076±0.005
29.1	-4.4±0.3	0.7±0.3	-0.36±0.01	-1.32±0.02	0.985±0.006	0.982±0.006	0.012±0.004	0.076±0.005
31.6	-4.5±0.3	0.7±0.2	-0.33±0.01	-1.32±0.02	0.998±0.006	0.995±0.006	0.012±0.004	0.078±0.006
34.1	-4.5±0.3	0.7±0.2	-0.31±0.01	-1.32±0.02	1.006±0.006	1.002±0.006	0.013±0.004	0.079±0.006
36.7	-4.4±0.3	0.7±0.2	-0.28±0.01	-1.31±0.02	1.017±0.006	1.014±0.006	0.012±0.004	0.078±0.006
39.2	-4.4±0.3	0.7±0.2	-0.27±0.01	-1.33±0.02	1.031±0.006	1.028±0.006	0.012±0.004	0.079±0.006
44.3	-4.4±0.3	0.7±0.2	-0.23±0.01	-1.33±0.02	1.051±0.006	1.047±0.006	0.013±0.004	0.082±0.006
49.4	-4.4±0.3	0.8±0.2	-0.18±0.01	-1.31±0.02	1.067±0.006	1.063±0.006	0.014±0.004	0.081±0.006
54.5	-4.3±0.3	0.7±0.2	-0.14±0.01	-1.33±0.02	1.087±0.007	1.084±0.007	0.013±0.004	0.082±0.006
59.5	-4.3±0.3	0.7±0.2	-0.11±0.01	-1.32±0.02	1.097±0.007	1.094±0.007	0.012±0.004	0.083±0.006
64.6	-4.4±0.3	0.6±0.2	-0.08±0.01	-1.32±0.02	1.114±0.007	1.111±0.007	0.012±0.004	0.085±0.006
69.7	-4.3±0.3	0.6±0.2	-0.05±0.01	-1.32±0.02	1.125±0.007	1.122±0.007	0.012±0.004	0.085±0.006
74.8	-4.3±0.3	0.6±0.2	-0.03±0.01	-1.31±0.02	1.133±0.007	1.130±0.007	0.012±0.004	0.084±0.006
79.9	-4.2±0.3	0.5±0.2	-0.01±0.01	-1.31±0.02	1.139±0.007	1.136±0.007	0.010±0.004	0.084±0.006
84.9	-4.2±0.3	0.5±0.2	0.00±0.01	-1.31±0.02	1.144±0.007	1.141±0.007	0.009±0.004	0.083±0.006
90.0	-4.2±0.3	0.4±0.2	0.00±0.01	-1.31±0.02	1.146±0.007	1.143±0.007	0.009±0.004	0.084±0.006
100.2	-4.2±0.3	0.4±0.2	0.01±0.01	-1.31±0.02	1.148±0.007	1.145±0.007	0.007±0.004	0.083±0.006
110.3	-4.1±0.3	0.2±0.2	0.01±0.01	-1.31±0.02	1.149±0.007	1.146±0.007	0.003±0.004	0.083±0.006
120.5	-4.1±0.3	0.0±0.2	0.01±0.01	-1.31±0.02	1.148±0.007	1.146±0.007	0.001±0.004	0.083±0.006
130.7	-4.0±0.3	-0.2±0.2	0.01±0.01	-1.31±0.02	1.150±0.007	1.147±0.007	-0.005±0.004	0.080±0.006
140.8	-4.0±0.3	-0.4±0.2	0.01±0.01	-1.31±0.02	1.148±0.007	1.145±0.007	-0.009±0.004	0.080±0.006

Table B.256 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(190 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-6.0±0.3	1.3±0.4	-0.74±0.01	-1.32±0.02	0.760±0.007	0.756±0.007	0.017±0.006	0.079±0.004
4.7	-5.3±0.3	0.7±0.4	-0.68±0.01	-1.32±0.02	0.800±0.006	0.796±0.006	0.010±0.005	0.074±0.004
5.7	-4.9±0.3	0.4±0.4	-0.65±0.01	-1.33±0.02	0.828±0.006	0.825±0.006	0.006±0.005	0.071±0.005
6.7	-4.6±0.3	0.4±0.3	-0.61±0.01	-1.34±0.02	0.852±0.006	0.850±0.006	0.007±0.005	0.068±0.005
7.7	-4.5±0.3	0.4±0.3	-0.58±0.01	-1.33±0.02	0.866±0.006	0.863±0.006	0.007±0.005	0.068±0.005
8.7	-4.4±0.3	0.5±0.3	-0.57±0.01	-1.33±0.02	0.876±0.006	0.873±0.006	0.007±0.005	0.067±0.005
9.8	-4.5±0.3	0.4±0.3	-0.55±0.01	-1.32±0.02	0.880±0.006	0.877±0.006	0.007±0.005	0.068±0.005
10.8	-4.5±0.3	0.4±0.3	-0.53±0.01	-1.32±0.02	0.890±0.006	0.887±0.006	0.007±0.005	0.070±0.005
11.8	-4.5±0.3	0.5±0.3	-0.52±0.01	-1.33±0.02	0.895±0.006	0.892±0.006	0.007±0.005	0.070±0.005
12.8	-4.6±0.3	0.5±0.3	-0.52±0.01	-1.33±0.02	0.901±0.006	0.898±0.006	0.007±0.005	0.073±0.005
13.8	-4.7±0.3	0.5±0.3	-0.50±0.01	-1.34±0.02	0.914±0.006	0.911±0.006	0.008±0.005	0.075±0.005
16.4	-4.9±0.3	0.6±0.3	-0.48±0.01	-1.33±0.02	0.924±0.006	0.921±0.006	0.009±0.005	0.079±0.005
18.9	-5.0±0.3	0.6±0.3	-0.45±0.01	-1.33±0.02	0.937±0.006	0.933±0.006	0.009±0.005	0.081±0.005
21.4	-5.0±0.3	0.6±0.3	-0.42±0.01	-1.33±0.02	0.956±0.006	0.952±0.006	0.011±0.004	0.083±0.005
24.0	-5.1±0.3	0.7±0.3	-0.40±0.01	-1.33±0.02	0.965±0.006	0.961±0.006	0.012±0.004	0.086±0.005
26.5	-5.1±0.3	0.7±0.3	-0.36±0.01	-1.31±0.02	0.975±0.006	0.971±0.006	0.012±0.004	0.087±0.005
29.1	-5.1±0.3	0.7±0.3	-0.33±0.01	-1.32±0.02	0.992±0.006	0.988±0.006	0.013±0.004	0.088±0.005
31.6	-5.1±0.3	0.8±0.2	-0.33±0.01	-1.34±0.02	1.007±0.006	1.003±0.006	0.014±0.004	0.089±0.006
34.1	-5.1±0.3	0.8±0.2	-0.29±0.01	-1.33±0.02	1.017±0.006	1.013±0.006	0.015±0.004	0.090±0.006
36.7	-5.1±0.3	0.8±0.2	-0.27±0.01	-1.32±0.02	1.027±0.006	1.022±0.006	0.014±0.004	0.091±0.006
39.2	-5.1±0.3	0.9±0.2	-0.25±0.01	-1.33±0.02	1.038±0.006	1.034±0.006	0.016±0.004	0.092±0.006
44.3	-5.1±0.3	0.8±0.2	-0.21±0.01	-1.33±0.02	1.060±0.006	1.055±0.006	0.016±0.004	0.094±0.006
49.4	-5.0±0.3	0.9±0.2	-0.17±0.01	-1.33±0.02	1.073±0.006	1.069±0.006	0.016±0.004	0.094±0.006
54.5	-5.0±0.3	0.9±0.2	-0.14±0.01	-1.33±0.02	1.089±0.007	1.085±0.007	0.016±0.004	0.096±0.006
59.5	-5.0±0.3	0.8±0.2	-0.11±0.01	-1.34±0.02	1.107±0.007	1.103±0.007	0.016±0.004	0.096±0.006
64.6	-5.0±0.3	0.7±0.2	-0.08±0.01	-1.33±0.02	1.117±0.007	1.113±0.007	0.014±0.004	0.097±0.006
69.7	-5.0±0.3	0.7±0.2	-0.05±0.01	-1.34±0.02	1.134±0.007	1.129±0.007	0.014±0.004	0.098±0.006
74.8	-4.9±0.3	0.6±0.2	-0.03±0.01	-1.33±0.02	1.141±0.007	1.137±0.007	0.013±0.004	0.097±0.006
79.9	-4.9±0.3	0.6±0.2	-0.01±0.01	-1.32±0.02	1.145±0.007	1.140±0.007	0.012±0.004	0.098±0.006
84.9	-4.9±0.3	0.5±0.2	0.00±0.01	-1.32±0.02	1.150±0.007	1.146±0.007	0.011±0.004	0.098±0.006
90.0	-4.8±0.3	0.4±0.2	0.01±0.01	-1.32±0.02	1.152±0.007	1.148±0.007	0.008±0.004	0.097±0.006
100.2	-4.8±0.3	0.3±0.2	0.01±0.01	-1.32±0.02	1.154±0.007	1.150±0.007	0.006±0.004	0.096±0.006
110.3	-4.8±0.3	0.2±0.2	0.01±0.01	-1.32±0.02	1.154±0.007	1.150±0.007	0.004±0.004	0.097±0.006
120.5	-4.8±0.3	0.1±0.2	0.01±0.01	-1.32±0.02	1.154±0.007	1.150±0.007	0.001±0.004	0.096±0.006
130.7	-4.7±0.3	-0.1±0.2	0.01±0.01	-1.32±0.02	1.153±0.007	1.149±0.007	-0.003±0.004	0.095±0.006
140.8	-4.6±0.3	-0.2±0.2	0.01±0.01	-1.32±0.02	1.152±0.007	1.148±0.007	-0.005±0.004	0.092±0.006

Table B.257 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(190 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-6.1±0.3	1.3±0.4	-0.73±0.01	-1.31±0.02	0.765±0.007	0.760±0.007	0.017±0.006	0.081±0.004
4.7	-5.4±0.3	0.6±0.4	-0.67±0.01	-1.32±0.02	0.805±0.006	0.801±0.006	0.008±0.005	0.076±0.004
5.7	-5.0±0.3	0.5±0.3	-0.63±0.01	-1.33±0.02	0.840±0.006	0.836±0.006	0.007±0.005	0.073±0.005
6.7	-4.7±0.3	0.4±0.3	-0.59±0.01	-1.32±0.02	0.857±0.006	0.854±0.006	0.007±0.005	0.070±0.005
7.7	-4.6±0.3	0.4±0.3	-0.58±0.01	-1.34±0.02	0.873±0.006	0.871±0.006	0.007±0.005	0.070±0.005
8.7	-4.5±0.3	0.4±0.3	-0.55±0.01	-1.33±0.02	0.879±0.006	0.876±0.006	0.007±0.005	0.069±0.005
9.8	-4.5±0.3	0.5±0.3	-0.54±0.01	-1.33±0.02	0.890±0.006	0.887±0.006	0.007±0.005	0.070±0.005
10.8	-4.6±0.3	0.4±0.3	-0.53±0.01	-1.33±0.02	0.898±0.006	0.895±0.006	0.007±0.005	0.072±0.005
11.8	-4.7±0.3	0.4±0.3	-0.52±0.01	-1.34±0.02	0.909±0.006	0.906±0.006	0.007±0.005	0.074±0.005
12.8	-4.8±0.3	0.5±0.3	-0.51±0.01	-1.33±0.02	0.909±0.006	0.906±0.006	0.007±0.005	0.076±0.005
13.8	-4.9±0.3	0.5±0.3	-0.49±0.01	-1.34±0.02	0.918±0.006	0.915±0.006	0.008±0.005	0.078±0.005
16.4	-5.1±0.3	0.6±0.3	-0.47±0.01	-1.33±0.02	0.926±0.006	0.922±0.006	0.009±0.005	0.083±0.005
18.9	-5.1±0.3	0.6±0.3	-0.44±0.01	-1.33±0.02	0.944±0.006	0.940±0.006	0.011±0.005	0.084±0.005
21.4	-5.2±0.3	0.6±0.3	-0.41±0.01	-1.33±0.02	0.958±0.006	0.954±0.006	0.010±0.004	0.087±0.005
24.0	-5.3±0.3	0.7±0.3	-0.38±0.01	-1.32±0.02	0.970±0.006	0.966±0.006	0.012±0.004	0.089±0.005
26.5	-5.3±0.3	0.7±0.3	-0.35±0.01	-1.33±0.02	0.989±0.006	0.985±0.006	0.012±0.004	0.091±0.005
29.1	-5.3±0.3	0.8±0.2	-0.34±0.01	-1.34±0.02	0.999±0.006	0.994±0.006	0.014±0.004	0.092±0.006
31.6	-5.3±0.3	0.8±0.2	-0.31±0.01	-1.33±0.02	1.012±0.006	1.007±0.006	0.014±0.004	0.094±0.006
34.1	-5.4±0.3	0.9±0.2	-0.29±0.01	-1.32±0.02	1.015±0.006	1.010±0.006	0.016±0.004	0.095±0.006
36.7	-5.3±0.3	0.9±0.2	-0.27±0.01	-1.32±0.02	1.027±0.006	1.023±0.006	0.015±0.004	0.095±0.006
39.2	-5.4±0.3	0.9±0.2	-0.26±0.01	-1.34±0.02	1.042±0.006	1.038±0.006	0.016±0.004	0.098±0.006
44.3	-5.4±0.3	0.9±0.2	-0.22±0.01	-1.34±0.02	1.062±0.006	1.057±0.006	0.016±0.004	0.100±0.006
49.4	-5.3±0.3	0.8±0.2	-0.17±0.01	-1.33±0.02	1.076±0.006	1.071±0.006	0.016±0.004	0.099±0.006
54.5	-5.3±0.3	0.8±0.2	-0.14±0.01	-1.34±0.02	1.098±0.007	1.093±0.007	0.016±0.004	0.101±0.006
59.5	-5.3±0.3	0.8±0.2	-0.10±0.01	-1.32±0.02	1.106±0.007	1.101±0.007	0.016±0.004	0.101±0.006
64.6	-5.3±0.3	0.8±0.2	-0.08±0.01	-1.32±0.02	1.117±0.007	1.112±0.007	0.016±0.004	0.102±0.006
69.7	-5.2±0.3	0.7±0.2	-0.04±0.01	-1.33±0.02	1.133±0.007	1.128±0.007	0.014±0.004	0.102±0.006
74.8	-5.2±0.3	0.7±0.2	-0.02±0.01	-1.32±0.02	1.139±0.007	1.134±0.007	0.013±0.004	0.104±0.006
79.9	-5.2±0.3	0.6±0.2	-0.01±0.01	-1.32±0.02	1.143±0.007	1.139±0.007	0.012±0.004	0.103±0.006
84.9	-5.1±0.3	0.5±0.2	0.00±0.01	-1.32±0.02	1.151±0.007	1.146±0.007	0.010±0.004	0.103±0.006
90.0	-5.1±0.3	0.4±0.2	0.00±0.01	-1.32±0.02	1.152±0.007	1.147±0.007	0.009±0.004	0.102±0.006
100.2	-5.1±0.3	0.4±0.2	0.01±0.01	-1.32±0.02	1.154±0.007	1.150±0.007	0.007±0.004	0.102±0.006
110.3	-5.0±0.3	0.1±0.2	0.01±0.01	-1.32±0.02	1.155±0.007	1.151±0.007	0.002±0.004	0.101±0.006
120.5	-5.0±0.3	0.0±0.2	0.01±0.01	-1.32±0.02	1.155±0.007	1.150±0.007	0.000±0.004	0.100±0.006
130.7	-4.9±0.3	-0.2±0.2	0.01±0.01	-1.32±0.02	1.154±0.007	1.150±0.007	-0.003±0.004	0.099±0.006
140.8	-4.8±0.3	-0.3±0.2	0.01±0.01	-1.32±0.02	1.152±0.007	1.148±0.007	-0.005±0.004	0.097±0.006

Table B.258 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(190 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-6.3±0.3	1.3±0.4	-0.72±0.01	-1.32±0.02	0.776±0.007	0.771±0.007	0.017±0.006	0.085±0.004
4.7	-5.8±0.3	0.8±0.4	-0.66±0.01	-1.32±0.02	0.816±0.006	0.812±0.006	0.011±0.005	0.082±0.005
5.7	-5.3±0.3	0.4±0.3	-0.61±0.01	-1.33±0.02	0.845±0.006	0.842±0.006	0.007±0.005	0.078±0.005
6.7	-5.1±0.3	0.4±0.3	-0.58±0.01	-1.33±0.02	0.866±0.006	0.863±0.006	0.007±0.005	0.077±0.005
7.7	-4.9±0.3	0.4±0.3	-0.54±0.01	-1.32±0.02	0.883±0.006	0.880±0.006	0.007±0.005	0.075±0.005
8.7	-5.0±0.3	0.4±0.3	-0.54±0.01	-1.33±0.02	0.891±0.006	0.888±0.006	0.007±0.005	0.077±0.005
9.8	-4.9±0.3	0.5±0.3	-0.52±0.01	-1.33±0.02	0.900±0.006	0.897±0.006	0.007±0.005	0.077±0.005
10.8	-5.1±0.3	0.4±0.3	-0.51±0.01	-1.34±0.02	0.909±0.006	0.905±0.006	0.007±0.005	0.080±0.005
11.8	-5.1±0.3	0.5±0.3	-0.50±0.01	-1.33±0.02	0.908±0.006	0.904±0.006	0.008±0.005	0.081±0.005
12.8	-5.2±0.3	0.5±0.3	-0.48±0.01	-1.33±0.02	0.920±0.006	0.916±0.006	0.008±0.005	0.084±0.005
13.8	-5.3±0.3	0.4±0.3	-0.48±0.01	-1.33±0.02	0.921±0.006	0.918±0.006	0.007±0.005	0.085±0.005
16.4	-5.5±0.3	0.5±0.3	-0.45±0.01	-1.33±0.02	0.938±0.006	0.933±0.006	0.008±0.005	0.089±0.005
18.9	-5.6±0.3	0.6±0.3	-0.42±0.01	-1.32±0.02	0.949±0.006	0.944±0.006	0.010±0.005	0.093±0.005
21.4	-5.7±0.3	0.7±0.3	-0.39±0.01	-1.32±0.02	0.964±0.006	0.959±0.006	0.011±0.004	0.096±0.005
24.0	-5.7±0.3	0.7±0.3	-0.38±0.01	-1.33±0.02	0.976±0.006	0.971±0.006	0.012±0.004	0.097±0.005
26.5	-5.8±0.3	0.7±0.3	-0.35±0.01	-1.33±0.02	0.991±0.006	0.986±0.006	0.012±0.004	0.100±0.005
29.1	-5.8±0.3	0.7±0.2	-0.33±0.01	-1.35±0.02	1.008±0.006	1.002±0.006	0.013±0.004	0.101±0.006
31.6	-5.8±0.3	0.8±0.2	-0.31±0.01	-1.34±0.02	1.013±0.006	1.008±0.006	0.015±0.004	0.103±0.006
34.1	-5.8±0.3	0.9±0.2	-0.29±0.01	-1.34±0.02	1.027±0.006	1.022±0.006	0.015±0.004	0.103±0.006
36.7	-5.8±0.3	0.9±0.2	-0.27±0.01	-1.33±0.02	1.030±0.006	1.024±0.006	0.016±0.004	0.104±0.006
39.2	-5.8±0.3	0.9±0.2	-0.24±0.01	-1.33±0.02	1.043±0.006	1.038±0.006	0.016±0.004	0.106±0.006
44.3	-5.8±0.3	0.9±0.2	-0.21±0.01	-1.33±0.02	1.060±0.006	1.055±0.006	0.016±0.004	0.108±0.006
49.4	-5.8±0.3	0.9±0.2	-0.17±0.01	-1.32±0.02	1.074±0.006	1.068±0.006	0.016±0.004	0.109±0.006
54.5	-5.8±0.3	0.8±0.2	-0.13±0.01	-1.32±0.02	1.093±0.007	1.087±0.007	0.016±0.004	0.111±0.006
59.5	-5.8±0.3	0.8±0.2	-0.09±0.01	-1.31±0.02	1.105±0.007	1.099±0.007	0.016±0.004	0.112±0.006
64.6	-5.8±0.3	0.8±0.2	-0.06±0.01	-1.31±0.02	1.117±0.007	1.111±0.007	0.015±0.004	0.113±0.006
69.7	-5.7±0.3	0.6±0.2	-0.05±0.01	-1.33±0.02	1.130±0.007	1.124±0.007	0.013±0.004	0.113±0.006
74.8	-5.7±0.3	0.7±0.2	-0.03±0.01	-1.33±0.02	1.139±0.007	1.133±0.007	0.013±0.004	0.114±0.006
79.9	-5.7±0.3	0.6±0.2	-0.01±0.01	-1.32±0.02	1.144±0.007	1.139±0.007	0.012±0.004	0.114±0.006
84.9	-5.7±0.3	0.5±0.2	0.00±0.01	-1.32±0.02	1.150±0.007	1.144±0.007	0.010±0.004	0.113±0.006
90.0	-5.7±0.3	0.4±0.2	0.01±0.01	-1.32±0.02	1.152±0.007	1.146±0.007	0.008±0.004	0.114±0.006
100.2	-5.6±0.3	0.3±0.2	0.01±0.01	-1.32±0.02	1.153±0.007	1.147±0.007	0.005±0.004	0.112±0.006
110.3	-5.5±0.3	0.1±0.2	0.01±0.01	-1.32±0.02	1.154±0.007	1.148±0.007	0.003±0.004	0.111±0.006
120.5	-5.5±0.3	0.0±0.2	0.01±0.01	-1.32±0.02	1.153±0.007	1.148±0.007	0.000±0.004	0.110±0.006
130.7	-5.4±0.3	-0.2±0.2	0.01±0.01	-1.32±0.02	1.153±0.007	1.148±0.007	-0.003±0.004	0.109±0.006
140.8	-5.3±0.3	-0.3±0.2	0.01±0.01	-1.31±0.02	1.151±0.007	1.146±0.007	-0.006±0.004	0.107±0.006

Table B.259 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(190 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-6.4±0.3	1.3±0.4	-0.70±0.01	-1.32±0.02	0.785±0.007	0.780±0.007	0.017±0.005	0.087±0.004
4.7	-5.8±0.3	0.5±0.4	-0.64±0.01	-1.33±0.02	0.835±0.006	0.831±0.006	0.008±0.005	0.085±0.005
5.7	-5.3±0.3	0.5±0.3	-0.59±0.01	-1.34±0.02	0.863±0.006	0.859±0.006	0.007±0.005	0.080±0.005
6.7	-5.2±0.3	0.4±0.3	-0.56±0.01	-1.33±0.02	0.882±0.006	0.878±0.006	0.007±0.005	0.080±0.005
7.7	-5.1±0.3	0.4±0.3	-0.54±0.01	-1.34±0.02	0.895±0.006	0.891±0.006	0.007±0.005	0.080±0.005
8.7	-5.1±0.3	0.5±0.3	-0.52±0.01	-1.34±0.02	0.904±0.006	0.900±0.006	0.007±0.005	0.080±0.005
9.8	-5.2±0.3	0.5±0.3	-0.51±0.01	-1.34±0.02	0.912±0.006	0.908±0.006	0.007±0.005	0.082±0.005
10.8	-5.3±0.3	0.4±0.3	-0.50±0.01	-1.34±0.02	0.916±0.006	0.912±0.006	0.007±0.005	0.084±0.005
11.8	-5.3±0.3	0.5±0.3	-0.47±0.01	-1.32±0.02	0.922±0.006	0.917±0.006	0.007±0.005	0.086±0.005
12.8	-5.5±0.3	0.5±0.3	-0.47±0.01	-1.33±0.02	0.927±0.006	0.923±0.006	0.008±0.005	0.088±0.005
13.8	-5.6±0.3	0.5±0.3	-0.47±0.01	-1.34±0.02	0.934±0.006	0.929±0.006	0.008±0.005	0.090±0.005
16.4	-5.7±0.3	0.5±0.3	-0.43±0.01	-1.32±0.02	0.945±0.006	0.940±0.006	0.008±0.005	0.094±0.005
18.9	-5.8±0.3	0.5±0.3	-0.41±0.01	-1.34±0.02	0.963±0.006	0.959±0.006	0.008±0.004	0.097±0.005
21.4	-5.9±0.3	0.7±0.3	-0.39±0.01	-1.34±0.02	0.974±0.006	0.969±0.006	0.011±0.004	0.100±0.005
24.0	-5.9±0.3	0.7±0.3	-0.36±0.01	-1.34±0.02	0.988±0.006	0.982±0.006	0.012±0.004	0.102±0.005
26.5	-5.9±0.3	0.7±0.2	-0.33±0.01	-1.33±0.02	1.001±0.006	0.995±0.006	0.012±0.004	0.103±0.006
29.1	-6.0±0.3	0.8±0.2	-0.32±0.01	-1.33±0.02	1.006±0.006	1.000±0.006	0.014±0.004	0.105±0.006
31.6	-6.0±0.3	0.8±0.2	-0.30±0.01	-1.33±0.02	1.017±0.006	1.012±0.006	0.015±0.004	0.107±0.006
34.1	-6.0±0.3	0.8±0.2	-0.26±0.01	-1.32±0.02	1.029±0.006	1.023±0.006	0.015±0.004	0.108±0.006
36.7	-6.1±0.3	0.9±0.2	-0.26±0.01	-1.34±0.02	1.036±0.006	1.030±0.006	0.016±0.004	0.110±0.006
39.2	-6.1±0.3	0.9±0.2	-0.23±0.01	-1.33±0.02	1.048±0.006	1.042±0.006	0.016±0.004	0.112±0.006
44.3	-6.1±0.3	0.9±0.2	-0.20±0.01	-1.34±0.02	1.067±0.006	1.061±0.006	0.016±0.004	0.113±0.006
49.4	-6.1±0.3	0.9±0.2	-0.16±0.01	-1.33±0.02	1.081±0.006	1.075±0.006	0.017±0.004	0.115±0.006
54.5	-6.1±0.3	0.8±0.2	-0.11±0.01	-1.32±0.02	1.099±0.007	1.093±0.007	0.016±0.004	0.117±0.006
59.5	-6.1±0.3	0.8±0.2	-0.10±0.01	-1.32±0.02	1.107±0.007	1.100±0.007	0.016±0.004	0.118±0.006
64.6	-6.1±0.3	0.8±0.2	-0.07±0.01	-1.34±0.02	1.128±0.007	1.121±0.007	0.015±0.004	0.120±0.006
69.7	-6.0±0.3	0.7±0.2	-0.04±0.01	-1.32±0.02	1.131±0.007	1.125±0.007	0.013±0.004	0.119±0.006
74.8	-6.0±0.3	0.6±0.2	-0.02±0.01	-1.33±0.02	1.145±0.007	1.139±0.007	0.013±0.004	0.120±0.006
79.9	-6.0±0.3	0.6±0.2	-0.01±0.01	-1.33±0.02	1.149±0.007	1.142±0.007	0.011±0.004	0.119±0.006
84.9	-6.0±0.3	0.4±0.2	0.00±0.01	-1.33±0.02	1.153±0.007	1.147±0.007	0.009±0.004	0.120±0.006
90.0	-5.9±0.3	0.4±0.2	0.01±0.01	-1.32±0.02	1.153±0.007	1.147±0.007	0.008±0.004	0.119±0.006
100.2	-5.8±0.3	0.2±0.2	0.01±0.01	-1.32±0.02	1.156±0.007	1.150±0.007	0.004±0.004	0.118±0.006
110.3	-5.8±0.3	0.0±0.2	0.01±0.01	-1.32±0.02	1.155±0.007	1.149±0.007	0.001±0.004	0.116±0.006
120.5	-5.8±0.3	0.0±0.2	0.01±0.01	-1.32±0.02	1.154±0.007	1.148±0.007	-0.001±0.004	0.117±0.006
130.7	-5.7±0.3	-0.2±0.2	0.01±0.01	-1.32±0.02	1.153±0.007	1.148±0.007	-0.005±0.004	0.115±0.006
140.8	-5.6±0.3	-0.4±0.2	0.01±0.01	-1.32±0.02	1.152±0.007	1.147±0.007	-0.007±0.004	0.112±0.006

Table B.260 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(190 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-6.2±0.3	1.3±0.4	-0.70±0.01	-1.33±0.02	0.797±0.007	0.792±0.006	0.018±0.005	0.086±0.004
4.7	-5.7±0.3	0.8±0.3	-0.63±0.01	-1.34±0.02	0.844±0.006	0.840±0.006	0.011±0.005	0.084±0.005
5.7	-5.3±0.3	0.4±0.3	-0.57±0.01	-1.33±0.02	0.872±0.006	0.868±0.006	0.007±0.005	0.080±0.005
6.7	-5.1±0.3	0.4±0.3	-0.54±0.01	-1.34±0.02	0.892±0.006	0.888±0.006	0.007±0.005	0.079±0.005
7.7	-5.1±0.3	0.4±0.3	-0.52±0.01	-1.33±0.02	0.901±0.006	0.897±0.006	0.007±0.005	0.080±0.005
8.7	-5.1±0.3	0.5±0.3	-0.50±0.01	-1.32±0.02	0.909±0.006	0.905±0.006	0.007±0.005	0.081±0.005
9.8	-5.1±0.3	0.4±0.3	-0.50±0.01	-1.33±0.02	0.915±0.006	0.912±0.006	0.007±0.005	0.081±0.005
10.8	-5.2±0.3	0.4±0.3	-0.48±0.01	-1.34±0.02	0.923±0.006	0.919±0.006	0.007±0.005	0.083±0.005
11.8	-5.3±0.3	0.4±0.3	-0.48±0.01	-1.33±0.02	0.924±0.006	0.920±0.006	0.007±0.005	0.085±0.005
12.8	-5.4±0.3	0.5±0.3	-0.47±0.01	-1.34±0.02	0.936±0.006	0.932±0.006	0.008±0.005	0.088±0.005
13.8	-5.4±0.3	0.5±0.3	-0.45±0.01	-1.33±0.02	0.935±0.006	0.931±0.006	0.008±0.005	0.089±0.005
16.4	-5.6±0.3	0.5±0.3	-0.42±0.01	-1.32±0.02	0.946±0.006	0.942±0.006	0.008±0.005	0.092±0.005
18.9	-5.7±0.3	0.6±0.3	-0.40±0.01	-1.33±0.02	0.965±0.006	0.960±0.006	0.010±0.004	0.096±0.005
21.4	-5.7±0.3	0.7±0.3	-0.38±0.01	-1.34±0.02	0.980±0.006	0.976±0.006	0.011±0.004	0.098±0.005
24.0	-5.8±0.3	0.7±0.3	-0.36±0.01	-1.34±0.02	0.992±0.006	0.986±0.006	0.012±0.004	0.101±0.005
26.5	-5.8±0.3	0.7±0.2	-0.33±0.01	-1.33±0.02	1.001±0.006	0.995±0.006	0.012±0.004	0.102±0.006
29.1	-5.9±0.3	0.8±0.2	-0.31±0.01	-1.33±0.02	1.010±0.006	1.004±0.006	0.014±0.004	0.104±0.006
31.6	-6.0±0.3	0.8±0.2	-0.30±0.01	-1.34±0.02	1.021±0.006	1.015±0.006	0.015±0.004	0.107±0.006
34.1	-6.0±0.3	0.9±0.2	-0.27±0.01	-1.34±0.02	1.031±0.006	1.025±0.006	0.015±0.004	0.108±0.006
36.7	-6.0±0.3	0.9±0.2	-0.26±0.01	-1.33±0.02	1.039±0.006	1.033±0.006	0.016±0.004	0.108±0.006
39.2	-6.0±0.3	0.9±0.2	-0.24±0.01	-1.34±0.02	1.051±0.006	1.045±0.006	0.016±0.004	0.110±0.006
44.3	-6.1±0.3	0.9±0.2	-0.19±0.01	-1.33±0.02	1.067±0.006	1.060±0.006	0.016±0.004	0.114±0.006
49.4	-6.1±0.3	0.9±0.2	-0.16±0.01	-1.34±0.02	1.083±0.007	1.076±0.007	0.017±0.004	0.114±0.006
54.5	-6.2±0.3	0.9±0.2	-0.12±0.01	-1.33±0.02	1.100±0.007	1.093±0.007	0.017±0.004	0.118±0.006
59.5	-6.2±0.3	0.8±0.2	-0.09±0.01	-1.32±0.02	1.110±0.007	1.103±0.007	0.016±0.004	0.119±0.006
64.6	-6.1±0.3	0.8±0.2	-0.07±0.01	-1.33±0.02	1.122±0.007	1.115±0.007	0.016±0.004	0.120±0.006
69.7	-6.1±0.3	0.6±0.2	-0.04±0.01	-1.32±0.02	1.131±0.007	1.125±0.007	0.013±0.004	0.120±0.006
74.8	-6.0±0.3	0.6±0.2	-0.02±0.01	-1.32±0.02	1.142±0.007	1.136±0.007	0.012±0.004	0.120±0.006
79.9	-6.0±0.3	0.5±0.2	-0.01±0.01	-1.32±0.02	1.146±0.007	1.140±0.007	0.010±0.004	0.120±0.006
84.9	-6.0±0.3	0.4±0.2	0.00±0.01	-1.32±0.02	1.151±0.007	1.144±0.007	0.009±0.004	0.121±0.006
90.0	-6.0±0.3	0.4±0.2	0.00±0.01	-1.33±0.02	1.153±0.007	1.147±0.007	0.008±0.004	0.120±0.006
100.2	-5.9±0.3	0.2±0.2	0.01±0.01	-1.32±0.02	1.155±0.007	1.149±0.007	0.004±0.004	0.118±0.006
110.3	-5.8±0.3	0.0±0.2	0.01±0.01	-1.32±0.02	1.155±0.007	1.149±0.007	0.000±0.004	0.117±0.006
120.5	-5.7±0.3	-0.1±0.2	0.01±0.01	-1.32±0.02	1.155±0.007	1.149±0.007	-0.002±0.004	0.115±0.006
130.7	-5.7±0.3	-0.3±0.2	0.01±0.01	-1.32±0.02	1.154±0.007	1.149±0.007	-0.007±0.004	0.115±0.006
140.8	-5.6±0.3	-0.4±0.2	0.01±0.01	-1.32±0.02	1.154±0.007	1.148±0.007	-0.007±0.004	0.112±0.006

Table B.261 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(190 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-6.7±0.3	1.4±0.4	-0.66±0.01	-1.32±0.02	0.808±0.007	0.802±0.006	0.020±0.005	0.095±0.004
4.7	-6.2±0.3	0.8±0.3	-0.60±0.01	-1.33±0.02	0.854±0.006	0.849±0.006	0.011±0.005	0.092±0.005
5.7	-5.8±0.3	0.4±0.3	-0.55±0.01	-1.33±0.02	0.887±0.006	0.883±0.006	0.007±0.005	0.090±0.005
6.7	-5.7±0.3	0.4±0.3	-0.53±0.01	-1.35±0.02	0.903±0.006	0.898±0.006	0.007±0.005	0.090±0.005
7.7	-5.6±0.3	0.5±0.3	-0.49±0.01	-1.32±0.02	0.913±0.006	0.909±0.006	0.007±0.005	0.089±0.005
8.7	-5.7±0.3	0.5±0.3	-0.47±0.01	-1.33±0.02	0.924±0.006	0.919±0.006	0.007±0.005	0.092±0.005
9.8	-5.7±0.3	0.4±0.3	-0.47±0.01	-1.33±0.02	0.927±0.006	0.922±0.006	0.007±0.005	0.092±0.005
10.8	-5.8±0.3	0.4±0.3	-0.46±0.01	-1.33±0.02	0.930±0.006	0.926±0.006	0.007±0.005	0.094±0.005
11.8	-5.9±0.3	0.4±0.3	-0.45±0.01	-1.33±0.02	0.938±0.006	0.933±0.006	0.007±0.005	0.097±0.005
12.8	-6.0±0.3	0.4±0.3	-0.44±0.01	-1.32±0.02	0.939±0.006	0.934±0.006	0.007±0.005	0.098±0.005
13.8	-6.0±0.3	0.5±0.3	-0.43±0.01	-1.33±0.02	0.947±0.006	0.942±0.006	0.008±0.005	0.099±0.005
16.4	-6.1±0.3	0.5±0.3	-0.41±0.01	-1.33±0.02	0.961±0.006	0.955±0.006	0.008±0.005	0.103±0.005
18.9	-6.2±0.3	0.6±0.3	-0.38±0.01	-1.33±0.02	0.975±0.006	0.969±0.006	0.009±0.004	0.106±0.005
21.4	-6.3±0.3	0.6±0.3	-0.37±0.01	-1.33±0.02	0.981±0.006	0.974±0.006	0.010±0.004	0.108±0.005
24.0	-6.4±0.3	0.7±0.3	-0.33±0.01	-1.32±0.02	0.992±0.006	0.986±0.006	0.011±0.004	0.111±0.005
26.5	-6.4±0.3	0.7±0.2	-0.31±0.01	-1.33±0.02	1.007±0.006	1.001±0.006	0.012±0.004	0.113±0.006
29.1	-6.5±0.3	0.7±0.2	-0.30±0.01	-1.33±0.02	1.014±0.006	1.007±0.006	0.012±0.004	0.115±0.006
31.6	-6.5±0.3	0.7±0.2	-0.27±0.01	-1.33±0.02	1.029±0.006	1.023±0.006	0.013±0.004	0.117±0.006
34.1	-6.5±0.3	0.8±0.2	-0.25±0.01	-1.32±0.02	1.034±0.006	1.027±0.006	0.014±0.004	0.118±0.006
36.7	-6.6±0.3	0.7±0.2	-0.24±0.01	-1.32±0.02	1.041±0.006	1.034±0.006	0.013±0.004	0.120±0.006
39.2	-6.6±0.3	0.8±0.2	-0.21±0.01	-1.32±0.02	1.053±0.006	1.046±0.006	0.015±0.004	0.122±0.006
44.3	-6.7±0.3	0.9±0.2	-0.19±0.01	-1.34±0.02	1.073±0.007	1.066±0.007	0.016±0.004	0.125±0.006
49.4	-6.7±0.3	0.8±0.2	-0.15±0.01	-1.33±0.02	1.086±0.007	1.078±0.007	0.016±0.004	0.127±0.006
54.5	-6.8±0.3	0.8±0.2	-0.13±0.01	-1.34±0.02	1.100±0.007	1.092±0.007	0.015±0.004	0.130±0.006
59.5	-6.7±0.3	0.8±0.2	-0.08±0.01	-1.32±0.02	1.113±0.007	1.105±0.007	0.016±0.004	0.131±0.006
64.6	-6.7±0.3	0.7±0.2	-0.06±0.01	-1.31±0.02	1.118±0.007	1.110±0.007	0.013±0.004	0.131±0.006
69.7	-6.7±0.3	0.6±0.2	-0.05±0.01	-1.34±0.02	1.135±0.007	1.127±0.007	0.012±0.004	0.133±0.006
74.8	-6.7±0.3	0.4±0.2	-0.02±0.01	-1.33±0.02	1.143±0.007	1.135±0.007	0.009±0.004	0.134±0.006
79.9	-6.7±0.3	0.4±0.2	0.00±0.01	-1.32±0.02	1.147±0.007	1.139±0.007	0.008±0.004	0.134±0.006
84.9	-6.6±0.3	0.4±0.2	0.00±0.01	-1.32±0.02	1.152±0.007	1.144±0.007	0.008±0.004	0.132±0.006
90.0	-6.6±0.3	0.3±0.2	0.01±0.01	-1.32±0.02	1.152±0.007	1.145±0.007	0.005±0.004	0.132±0.006
100.2	-6.5±0.3	0.0±0.2	0.01±0.01	-1.32±0.02	1.155±0.007	1.148±0.007	0.001±0.004	0.131±0.006
110.3	-6.4±0.3	0.0±0.2	0.01±0.01	-1.32±0.02	1.154±0.007	1.147±0.007	-0.001±0.004	0.129±0.006
120.5	-6.4±0.3	-0.2±0.2	0.01±0.01	-1.32±0.02	1.153±0.007	1.146±0.007	-0.004±0.004	0.129±0.006
130.7	-6.3±0.3	-0.3±0.2	0.01±0.01	-1.32±0.02	1.153±0.007	1.146±0.007	-0.007±0.004	0.127±0.006
140.8	-6.2±0.3	-0.5±0.2	0.01±0.01	-1.32±0.02	1.153±0.007	1.146±0.007	-0.011±0.004	0.124±0.006

Table B.262 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(190 mm,-38 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-7.1±0.3	1.3±0.4	-0.65±0.01	-1.34±0.02	0.826±0.006	0.819±0.006	0.018±0.005	0.102±0.005
4.7	-6.6±0.3	0.7±0.3	-0.59±0.01	-1.33±0.02	0.861±0.006	0.855±0.006	0.011±0.005	0.099±0.005
5.7	-6.4±0.3	0.5±0.3	-0.53±0.01	-1.33±0.02	0.894±0.006	0.888±0.006	0.007±0.005	0.099±0.005
6.7	-6.1±0.3	0.4±0.3	-0.52±0.01	-1.35±0.02	0.914±0.006	0.909±0.006	0.007±0.005	0.097±0.005
7.7	-6.1±0.3	0.4±0.3	-0.48±0.01	-1.35±0.02	0.928±0.006	0.923±0.006	0.007±0.005	0.098±0.005
8.7	-6.0±0.3	0.4±0.3	-0.47±0.01	-1.33±0.02	0.930±0.006	0.925±0.006	0.007±0.005	0.097±0.005
9.8	-6.1±0.3	0.4±0.3	-0.46±0.01	-1.34±0.02	0.942±0.006	0.937±0.006	0.007±0.005	0.100±0.005
10.8	-6.2±0.3	0.4±0.3	-0.45±0.01	-1.34±0.02	0.943±0.006	0.937±0.006	0.007±0.005	0.102±0.005
11.8	-6.2±0.3	0.4±0.3	-0.44±0.01	-1.34±0.02	0.949±0.006	0.944±0.006	0.007±0.005	0.103±0.005
12.8	-6.3±0.3	0.4±0.3	-0.42±0.01	-1.34±0.02	0.958±0.006	0.952±0.006	0.007±0.005	0.105±0.005
13.8	-6.3±0.3	0.4±0.3	-0.41±0.01	-1.33±0.02	0.959±0.006	0.953±0.006	0.007±0.005	0.106±0.005
16.4	-6.4±0.3	0.4±0.3	-0.39±0.01	-1.33±0.02	0.973±0.006	0.966±0.006	0.007±0.004	0.109±0.005
18.9	-6.6±0.3	0.5±0.3	-0.37±0.01	-1.34±0.02	0.983±0.006	0.976±0.006	0.008±0.004	0.112±0.005
21.4	-6.6±0.3	0.5±0.3	-0.35±0.01	-1.34±0.02	0.994±0.006	0.988±0.006	0.008±0.004	0.115±0.006
24.0	-6.7±0.3	0.5±0.2	-0.33±0.01	-1.34±0.02	1.009±0.006	1.002±0.006	0.009±0.004	0.117±0.006
26.5	-6.8±0.3	0.6±0.2	-0.31±0.01	-1.34±0.02	1.017±0.006	1.009±0.006	0.011±0.004	0.120±0.006
29.1	-6.8±0.3	0.6±0.2	-0.29±0.01	-1.34±0.02	1.024±0.006	1.017±0.006	0.011±0.004	0.121±0.006
31.6	-6.8±0.3	0.6±0.2	-0.26±0.01	-1.34±0.02	1.040±0.006	1.032±0.006	0.012±0.004	0.124±0.006
34.1	-6.9±0.3	0.7±0.2	-0.24±0.01	-1.33±0.02	1.045±0.006	1.037±0.006	0.012±0.004	0.126±0.006
36.7	-6.9±0.3	0.7±0.2	-0.23±0.01	-1.35±0.02	1.058±0.006	1.050±0.006	0.012±0.004	0.128±0.006
39.2	-6.9±0.3	0.7±0.2	-0.21±0.01	-1.34±0.02	1.063±0.007	1.055±0.006	0.012±0.004	0.129±0.006
44.3	-7.0±0.3	0.6±0.2	-0.18±0.01	-1.34±0.02	1.076±0.007	1.068±0.007	0.012±0.004	0.132±0.006
49.4	-7.1±0.3	0.6±0.2	-0.14±0.01	-1.35±0.02	1.097±0.007	1.089±0.007	0.012±0.004	0.136±0.006
54.5	-7.1±0.3	0.6±0.2	-0.11±0.01	-1.34±0.02	1.106±0.007	1.098±0.007	0.011±0.004	0.137±0.006
59.5	-7.1±0.3	0.5±0.2	-0.08±0.01	-1.33±0.02	1.120±0.007	1.111±0.007	0.010±0.004	0.139±0.006
64.6	-7.1±0.3	0.5±0.2	-0.06±0.01	-1.33±0.02	1.128±0.007	1.120±0.007	0.009±0.004	0.140±0.006
69.7	-7.1±0.3	0.4±0.2	-0.03±0.01	-1.34±0.02	1.142±0.007	1.133±0.007	0.008±0.004	0.141±0.006
74.8	-7.1±0.3	0.4±0.2	-0.02±0.01	-1.33±0.02	1.147±0.007	1.138±0.007	0.007±0.004	0.142±0.006
79.9	-7.1±0.3	0.2±0.2	-0.01±0.01	-1.34±0.02	1.154±0.007	1.145±0.007	0.005±0.004	0.142±0.006
84.9	-7.0±0.3	0.2±0.2	0.01±0.01	-1.33±0.02	1.156±0.007	1.148±0.007	0.004±0.004	0.142±0.006
90.0	-6.9±0.3	0.1±0.2	0.01±0.01	-1.34±0.02	1.159±0.007	1.151±0.007	0.003±0.004	0.140±0.006
100.2	-6.8±0.3	-0.1±0.2	0.01±0.01	-1.34±0.02	1.161±0.007	1.152±0.007	-0.002±0.004	0.138±0.006
110.3	-6.8±0.3	-0.3±0.2	0.01±0.01	-1.33±0.02	1.160±0.007	1.152±0.007	-0.005±0.004	0.137±0.006
120.5	-6.7±0.3	-0.3±0.2	0.01±0.01	-1.33±0.02	1.160±0.007	1.152±0.007	-0.007±0.004	0.135±0.006
130.7	-6.7±0.3	-0.5±0.2	0.01±0.01	-1.33±0.02	1.159±0.007	1.151±0.007	-0.010±0.004	0.135±0.006
140.8	-6.6±0.3	-0.7±0.2	0.01±0.01	-1.33±0.02	1.158±0.007	1.151±0.007	-0.015±0.004	0.132±0.006

Table B.263 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(190 mm,-32 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-7.7±0.3	1.3±0.4	-0.69±0.01	-1.32±0.02	0.797±0.007	0.789±0.007	0.018±0.005	0.107±0.004
4.7	-7.3±0.3	0.8±0.4	-0.62±0.01	-1.33±0.02	0.843±0.006	0.836±0.006	0.011±0.005	0.107±0.005
5.7	-7.0±0.3	0.5±0.3	-0.57±0.01	-1.34±0.02	0.877±0.006	0.870±0.006	0.007±0.005	0.107±0.005
6.7	-6.9±0.3	0.4±0.3	-0.52±0.01	-1.33±0.02	0.902±0.006	0.895±0.006	0.006±0.005	0.109±0.005
7.7	-6.7±0.3	0.4±0.3	-0.50±0.01	-1.35±0.02	0.921±0.006	0.915±0.006	0.006±0.005	0.108±0.005
8.7	-6.7±0.3	0.4±0.3	-0.47±0.01	-1.34±0.02	0.929±0.006	0.922±0.006	0.006±0.005	0.109±0.005
9.8	-6.7±0.3	0.3±0.3	-0.46±0.01	-1.34±0.02	0.943±0.006	0.936±0.006	0.006±0.005	0.111±0.005
10.8	-6.8±0.3	0.4±0.3	-0.44±0.01	-1.34±0.02	0.948±0.006	0.942±0.006	0.006±0.005	0.112±0.005
11.8	-6.8±0.3	0.3±0.3	-0.42±0.01	-1.34±0.02	0.960±0.006	0.953±0.006	0.006±0.005	0.113±0.005
12.8	-6.9±0.3	0.3±0.3	-0.40±0.01	-1.33±0.02	0.962±0.006	0.955±0.006	0.005±0.005	0.115±0.005
13.8	-6.9±0.3	0.3±0.3	-0.40±0.01	-1.34±0.02	0.969±0.006	0.962±0.006	0.005±0.004	0.116±0.005
16.4	-6.9±0.3	0.3±0.3	-0.38±0.01	-1.34±0.02	0.983±0.006	0.976±0.006	0.005±0.004	0.118±0.005
18.9	-7.0±0.3	0.3±0.3	-0.34±0.01	-1.33±0.02	0.993±0.006	0.986±0.006	0.005±0.004	0.121±0.005
21.4	-7.1±0.3	0.4±0.2	-0.32±0.01	-1.33±0.02	1.004±0.006	0.997±0.006	0.006±0.004	0.124±0.006
24.0	-7.2±0.3	0.3±0.2	-0.31±0.01	-1.34±0.02	1.018±0.006	1.010±0.006	0.006±0.004	0.127±0.006
26.5	-7.2±0.3	0.3±0.2	-0.28±0.01	-1.33±0.02	1.026±0.006	1.018±0.006	0.006±0.004	0.129±0.006
29.1	-7.3±0.3	0.4±0.2	-0.26±0.01	-1.34±0.02	1.039±0.006	1.030±0.006	0.007±0.004	0.131±0.006
31.6	-7.3±0.3	0.3±0.2	-0.25±0.01	-1.34±0.02	1.043±0.006	1.035±0.006	0.005±0.004	0.132±0.006
34.1	-7.4±0.3	0.3±0.2	-0.22±0.01	-1.34±0.02	1.056±0.006	1.047±0.006	0.006±0.004	0.136±0.006
36.7	-7.4±0.3	0.3±0.2	-0.21±0.01	-1.34±0.02	1.061±0.007	1.053±0.006	0.005±0.004	0.137±0.006
39.2	-7.4±0.3	0.2±0.2	-0.19±0.01	-1.33±0.02	1.068±0.007	1.059±0.007	0.004±0.004	0.138±0.006
44.3	-7.5±0.3	0.2±0.2	-0.16±0.01	-1.34±0.02	1.087±0.007	1.077±0.007	0.004±0.004	0.141±0.006
49.4	-7.5±0.3	0.2±0.2	-0.12±0.01	-1.33±0.02	1.098±0.007	1.088±0.007	0.004±0.004	0.143±0.006
54.5	-7.6±0.3	0.2±0.2	-0.10±0.01	-1.35±0.02	1.116±0.007	1.107±0.007	0.004±0.004	0.147±0.006
59.5	-7.6±0.3	0.2±0.2	-0.08±0.01	-1.34±0.02	1.126±0.007	1.116±0.007	0.004±0.004	0.149±0.006
64.6	-7.6±0.3	0.2±0.2	-0.05±0.01	-1.35±0.02	1.138±0.007	1.128±0.007	0.004±0.004	0.151±0.006
69.7	-7.7±0.3	0.1±0.2	-0.04±0.01	-1.35±0.02	1.145±0.007	1.135±0.007	0.002±0.004	0.153±0.006
74.8	-7.6±0.3	0.1±0.2	-0.01±0.01	-1.34±0.02	1.152±0.007	1.141±0.007	0.002±0.004	0.152±0.006
79.9	-7.6±0.3	0.0±0.2	-0.01±0.01	-1.35±0.02	1.158±0.007	1.148±0.007	0.000±0.004	0.153±0.006
84.9	-7.5±0.3	0.0±0.2	0.00±0.01	-1.34±0.02	1.160±0.007	1.150±0.007	0.000±0.004	0.152±0.006
90.0	-7.5±0.3	-0.1±0.2	0.01±0.01	-1.34±0.02	1.162±0.007	1.152±0.007	-0.002±0.004	0.151±0.006
100.2	-7.4±0.3	-0.2±0.2	0.01±0.01	-1.34±0.02	1.163±0.007	1.154±0.007	-0.003±0.004	0.150±0.006
110.3	-7.3±0.3	-0.3±0.2	0.01±0.01	-1.35±0.02	1.164±0.007	1.155±0.007	-0.007±0.004	0.149±0.006
120.5	-7.3±0.3	-0.5±0.2	0.01±0.01	-1.34±0.02	1.164±0.007	1.154±0.007	-0.010±0.004	0.147±0.006
130.7	-7.2±0.3	-0.7±0.2	0.01±0.01	-1.34±0.02	1.163±0.007	1.153±0.007	-0.014±0.004	0.146±0.006
140.8	-7.2±0.3	-0.9±0.2	0.01±0.01	-1.34±0.02	1.162±0.007	1.153±0.007	-0.018±0.004	0.145±0.006

Table B.264 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(190 mm,-29 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-8.3±0.3	1.4±0.4	-0.75±0.01	-1.32±0.02	0.753±0.007	0.745±0.007	0.018±0.006	0.109±0.004
4.7	-8.2±0.3	0.5±0.4	-0.68±0.01	-1.32±0.02	0.798±0.007	0.790±0.007	0.007±0.005	0.114±0.004
5.7	-8.0±0.3	0.3±0.4	-0.64±0.01	-1.33±0.02	0.832±0.007	0.824±0.006	0.005±0.005	0.115±0.005
6.7	-7.8±0.3	0.3±0.3	-0.58±0.01	-1.32±0.02	0.857±0.006	0.849±0.006	0.005±0.005	0.117±0.005
7.7	-7.8±0.3	0.2±0.3	-0.53±0.01	-1.31±0.02	0.883±0.006	0.875±0.006	0.002±0.005	0.119±0.005
8.7	-7.7±0.3	0.1±0.3	-0.52±0.01	-1.32±0.02	0.893±0.006	0.885±0.006	0.001±0.005	0.119±0.005
9.8	-7.6±0.3	0.1±0.3	-0.50±0.01	-1.32±0.02	0.906±0.006	0.898±0.006	0.001±0.005	0.120±0.005
10.8	-7.6±0.3	0.1±0.3	-0.48±0.01	-1.33±0.02	0.922±0.006	0.914±0.006	0.001±0.005	0.122±0.005
11.8	-7.6±0.3	0.1±0.3	-0.45±0.01	-1.31±0.02	0.930±0.006	0.922±0.006	0.001±0.005	0.123±0.005
12.8	-7.6±0.3	0.1±0.3	-0.43±0.01	-1.32±0.02	0.943±0.006	0.935±0.006	0.001±0.005	0.125±0.005
13.8	-7.7±0.3	0.1±0.3	-0.43±0.01	-1.34±0.02	0.953±0.006	0.945±0.006	0.002±0.005	0.127±0.005
16.4	-7.6±0.3	0.1±0.3	-0.39±0.01	-1.32±0.02	0.961±0.006	0.953±0.006	0.001±0.005	0.128±0.005
18.9	-7.7±0.3	0.0±0.3	-0.36±0.01	-1.32±0.02	0.983±0.006	0.974±0.006	0.001±0.004	0.132±0.005
21.4	-7.8±0.3	0.0±0.3	-0.33±0.01	-1.31±0.02	0.991±0.006	0.981±0.006	-0.001±0.004	0.135±0.005
24.0	-7.9±0.3	0.0±0.3	-0.31±0.01	-1.32±0.02	1.005±0.006	0.995±0.006	-0.001±0.004	0.139±0.006
26.5	-7.9±0.3	-0.1±0.2	-0.29±0.01	-1.32±0.02	1.013±0.006	1.003±0.006	-0.002±0.004	0.140±0.006
29.1	-8.1±0.3	-0.1±0.2	-0.26±0.01	-1.31±0.02	1.023±0.006	1.013±0.006	-0.002±0.004	0.143±0.006
31.6	-8.1±0.3	-0.1±0.2	-0.25±0.01	-1.34±0.02	1.040±0.007	1.030±0.006	-0.002±0.004	0.146±0.006
34.1	-8.1±0.3	-0.1±0.2	-0.23±0.01	-1.32±0.02	1.046±0.007	1.036±0.006	-0.002±0.004	0.148±0.006
36.7	-8.1±0.3	-0.2±0.2	-0.22±0.01	-1.33±0.02	1.055±0.007	1.045±0.007	-0.004±0.004	0.149±0.006
39.2	-8.1±0.3	-0.3±0.2	-0.19±0.01	-1.33±0.02	1.067±0.007	1.056±0.007	-0.005±0.004	0.151±0.006
44.3	-8.1±0.3	-0.3±0.2	-0.16±0.01	-1.33±0.02	1.084±0.007	1.073±0.007	-0.005±0.004	0.154±0.006
49.4	-8.2±0.3	-0.3±0.2	-0.13±0.01	-1.33±0.02	1.094±0.007	1.083±0.007	-0.005±0.004	0.157±0.006
54.5	-8.2±0.3	-0.3±0.2	-0.10±0.01	-1.34±0.02	1.112±0.007	1.101±0.007	-0.005±0.004	0.159±0.006
59.5	-8.3±0.3	-0.3±0.2	-0.07±0.01	-1.33±0.02	1.122±0.007	1.110±0.007	-0.005±0.004	0.162±0.006
64.6	-8.3±0.3	-0.2±0.2	-0.05±0.01	-1.33±0.02	1.132±0.007	1.120±0.007	-0.004±0.004	0.164±0.006
69.7	-8.3±0.3	-0.2±0.2	-0.03±0.01	-1.33±0.02	1.138±0.007	1.126±0.007	-0.004±0.004	0.165±0.006
74.8	-8.3±0.3	-0.2±0.2	-0.02±0.01	-1.34±0.02	1.149±0.007	1.137±0.007	-0.004±0.004	0.166±0.006
79.9	-8.3±0.3	-0.2±0.2	-0.01±0.01	-1.33±0.02	1.153±0.007	1.140±0.007	-0.003±0.004	0.166±0.006
84.9	-8.3±0.3	-0.2±0.2	0.00±0.01	-1.33±0.02	1.157±0.007	1.145±0.007	-0.004±0.004	0.166±0.006
90.0	-8.3±0.3	-0.2±0.2	0.01±0.01	-1.34±0.02	1.159±0.007	1.147±0.007	-0.004±0.004	0.166±0.006
100.2	-8.2±0.3	-0.4±0.2	0.01±0.01	-1.33±0.02	1.159±0.007	1.148±0.007	-0.007±0.004	0.165±0.006
110.3	-8.2±0.3	-0.3±0.2	0.01±0.01	-1.34±0.02	1.161±0.007	1.149±0.007	-0.007±0.004	0.165±0.006
120.5	-8.1±0.3	-0.5±0.2	0.01±0.01	-1.34±0.02	1.161±0.007	1.149±0.007	-0.010±0.004	0.163±0.006
130.7	-8.1±0.3	-0.7±0.2	0.01±0.01	-1.34±0.02	1.160±0.007	1.148±0.007	-0.014±0.004	0.164±0.006
140.8	-8.0±0.3	-0.9±0.2	0.01±0.01	-1.34±0.02	1.160±0.007	1.149±0.007	-0.018±0.004	0.161±0.006

Table B.265 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.0±0.3	0.9±0.5	-0.73±0.01	-1.23±0.02	0.709±0.007	0.708±0.007	0.011±0.006	0.038±0.004
4.7	-2.9±0.3	0.4±0.5	-0.70±0.01	-1.25±0.02	0.742±0.007	0.741±0.007	0.005±0.006	0.038±0.004
5.7	-2.7±0.3	0.3±0.4	-0.67±0.01	-1.25±0.02	0.765±0.007	0.764±0.007	0.004±0.006	0.036±0.004
6.7	-2.5±0.3	0.0±0.4	-0.64±0.01	-1.25±0.02	0.780±0.007	0.779±0.007	0.000±0.006	0.035±0.004
7.7	-2.5±0.3	0.0±0.4	-0.62±0.01	-1.26±0.02	0.799±0.007	0.798±0.007	-0.001±0.006	0.034±0.004
8.7	-2.2±0.3	0.0±0.4	-0.59±0.01	-1.24±0.02	0.803±0.007	0.803±0.007	-0.001±0.005	0.031±0.004
9.8	-2.1±0.3	0.0±0.4	-0.59±0.01	-1.27±0.02	0.826±0.007	0.826±0.007	0.000±0.005	0.030±0.005
10.8	-2.1±0.3	0.0±0.4	-0.57±0.01	-1.25±0.02	0.826±0.007	0.825±0.007	0.000±0.005	0.030±0.005
11.8	-2.0±0.3	0.0±0.4	-0.54±0.01	-1.25±0.02	0.837±0.007	0.837±0.007	0.000±0.005	0.029±0.005
12.8	-1.9±0.3	-0.1±0.3	-0.54±0.01	-1.26±0.02	0.853±0.007	0.852±0.007	-0.001±0.005	0.028±0.005
13.8	-1.9±0.3	0.0±0.3	-0.52±0.01	-1.26±0.02	0.860±0.006	0.859±0.006	0.000±0.005	0.028±0.005
16.4	-1.8±0.3	0.0±0.3	-0.49±0.01	-1.26±0.02	0.876±0.006	0.876±0.006	0.001±0.005	0.027±0.005
18.9	-1.7±0.3	-0.1±0.3	-0.45±0.01	-1.24±0.02	0.888±0.006	0.888±0.006	-0.001±0.005	0.027±0.005
21.4	-1.7±0.3	0.0±0.3	-0.42±0.01	-1.24±0.02	0.905±0.006	0.905±0.006	0.001±0.005	0.027±0.005
24.0	-1.7±0.3	0.1±0.3	-0.41±0.01	-1.25±0.02	0.920±0.006	0.919±0.006	0.001±0.005	0.027±0.005
26.5	-1.6±0.3	0.0±0.3	-0.36±0.01	-1.24±0.02	0.936±0.006	0.936±0.006	0.001±0.005	0.026±0.005
29.1	-1.6±0.3	0.1±0.3	-0.34±0.01	-1.25±0.02	0.951±0.006	0.950±0.006	0.002±0.005	0.027±0.005
31.6	-1.6±0.3	0.1±0.3	-0.32±0.01	-1.24±0.02	0.962±0.006	0.961±0.006	0.002±0.005	0.027±0.005
34.1	-1.5±0.3	0.1±0.3	-0.29±0.01	-1.23±0.02	0.970±0.006	0.970±0.006	0.002±0.005	0.026±0.005
36.7	-1.5±0.3	0.1±0.3	-0.28±0.01	-1.24±0.02	0.982±0.006	0.982±0.006	0.002±0.004	0.026±0.005
39.2	-1.5±0.3	0.2±0.3	-0.25±0.01	-1.24±0.02	0.997±0.006	0.997±0.006	0.003±0.004	0.027±0.006
44.3	-1.5±0.3	0.2±0.2	-0.20±0.01	-1.25±0.02	1.022±0.006	1.021±0.006	0.003±0.004	0.026±0.006
49.4	-1.5±0.3	0.2±0.2	-0.17±0.01	-1.25±0.02	1.037±0.007	1.037±0.007	0.004±0.004	0.027±0.006
54.5	-1.4±0.3	0.2±0.2	-0.13±0.01	-1.25±0.02	1.056±0.007	1.055±0.007	0.004±0.004	0.026±0.006
59.5	-1.4±0.3	0.3±0.2	-0.09±0.01	-1.24±0.02	1.072±0.007	1.072±0.007	0.005±0.004	0.025±0.006
64.6	-1.3±0.3	0.3±0.2	-0.07±0.01	-1.25±0.02	1.088±0.007	1.087±0.007	0.006±0.004	0.025±0.006
69.7	-1.3±0.3	0.4±0.2	-0.04±0.01	-1.24±0.02	1.097±0.007	1.097±0.007	0.007±0.004	0.025±0.006
74.8	-1.3±0.3	0.4±0.2	-0.02±0.01	-1.24±0.02	1.106±0.007	1.105±0.007	0.007±0.004	0.025±0.006
79.9	-1.3±0.3	0.4±0.2	0.00±0.01	-1.24±0.02	1.111±0.007	1.111±0.007	0.007±0.004	0.024±0.006
84.9	-1.3±0.3	0.4±0.2	0.00±0.01	-1.24±0.02	1.114±0.007	1.114±0.007	0.007±0.004	0.024±0.006
90.0	-1.2±0.3	0.4±0.2	0.01±0.01	-1.24±0.02	1.116±0.007	1.116±0.007	0.007±0.004	0.023±0.006
100.2	-1.1±0.3	0.4±0.2	0.01±0.01	-1.24±0.02	1.117±0.007	1.117±0.007	0.007±0.004	0.022±0.006
110.3	-1.1±0.3	0.4±0.2	0.01±0.01	-1.24±0.02	1.117±0.007	1.117±0.007	0.008±0.004	0.022±0.006
120.5	-1.1±0.3	0.4±0.2	0.01±0.01	-1.23±0.02	1.116±0.007	1.116±0.007	0.008±0.004	0.022±0.006
130.7	-1.0±0.3	0.3±0.2	0.01±0.01	-1.23±0.02	1.116±0.007	1.116±0.007	0.006±0.004	0.020±0.006
140.8	-1.1±0.3	0.2±0.2	0.01±0.01	-1.23±0.02	1.115±0.007	1.115±0.007	0.005±0.004	0.021±0.006

Table B.266 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.1±0.3	0.9±0.5	-0.73±0.01	-1.24±0.02	0.713±0.007	0.712±0.007	0.011±0.006	0.039±0.004
4.7	-2.9±0.3	0.4±0.5	-0.70±0.01	-1.25±0.02	0.742±0.007	0.741±0.007	0.005±0.006	0.038±0.004
5.7	-2.7±0.3	0.3±0.4	-0.66±0.01	-1.24±0.02	0.763±0.007	0.762±0.007	0.004±0.006	0.036±0.004
6.7	-2.5±0.3	0.0±0.4	-0.63±0.01	-1.25±0.02	0.788±0.007	0.787±0.007	0.000±0.006	0.035±0.004
7.7	-2.3±0.3	0.0±0.4	-0.61±0.01	-1.25±0.02	0.797±0.007	0.796±0.007	-0.001±0.006	0.031±0.004
8.7	-2.2±0.3	0.0±0.4	-0.59±0.01	-1.25±0.02	0.815±0.007	0.815±0.007	0.000±0.005	0.032±0.005
9.8	-2.1±0.3	0.0±0.4	-0.57±0.01	-1.25±0.02	0.826±0.007	0.826±0.007	0.000±0.005	0.031±0.005
10.8	-2.1±0.3	0.0±0.4	-0.55±0.01	-1.24±0.02	0.833±0.007	0.832±0.007	0.000±0.005	0.031±0.005
11.8	-2.0±0.3	0.0±0.4	-0.53±0.01	-1.24±0.02	0.840±0.007	0.840±0.007	0.000±0.005	0.029±0.005
12.8	-2.0±0.3	0.0±0.3	-0.52±0.01	-1.25±0.02	0.851±0.007	0.850±0.007	0.000±0.005	0.030±0.005
13.8	-2.0±0.3	0.0±0.3	-0.51±0.01	-1.24±0.02	0.855±0.007	0.855±0.007	0.000±0.005	0.030±0.005
16.4	-1.9±0.3	0.0±0.3	-0.48±0.01	-1.25±0.02	0.875±0.006	0.874±0.006	0.000±0.005	0.029±0.005
18.9	-2.0±0.3	0.1±0.3	-0.46±0.01	-1.26±0.02	0.894±0.006	0.893±0.006	0.001±0.005	0.031±0.005
21.4	-2.0±0.3	0.1±0.3	-0.43±0.01	-1.25±0.02	0.909±0.006	0.909±0.006	0.001±0.005	0.031±0.005
24.0	-2.0±0.3	0.1±0.3	-0.40±0.01	-1.24±0.02	0.920±0.006	0.920±0.006	0.001±0.005	0.032±0.005
26.5	-1.9±0.3	0.1±0.3	-0.37±0.01	-1.25±0.02	0.938±0.006	0.938±0.006	0.002±0.005	0.031±0.005
29.1	-1.9±0.3	0.2±0.3	-0.34±0.01	-1.24±0.02	0.947±0.006	0.947±0.006	0.003±0.005	0.032±0.005
31.6	-1.9±0.3	0.1±0.3	-0.32±0.01	-1.25±0.02	0.962±0.006	0.962±0.006	0.002±0.005	0.031±0.005
34.1	-1.9±0.3	0.2±0.3	-0.30±0.01	-1.25±0.02	0.972±0.006	0.971±0.006	0.004±0.005	0.032±0.005
36.7	-1.8±0.3	0.1±0.3	-0.27±0.01	-1.25±0.02	0.986±0.006	0.986±0.006	0.002±0.004	0.031±0.005
39.2	-1.8±0.3	0.2±0.3	-0.26±0.01	-1.25±0.02	0.996±0.006	0.996±0.006	0.003±0.004	0.032±0.005
44.3	-1.8±0.3	0.2±0.2	-0.21±0.01	-1.25±0.02	1.017±0.006	1.016±0.006	0.004±0.004	0.032±0.006
49.4	-1.8±0.3	0.2±0.2	-0.17±0.01	-1.24±0.02	1.037±0.007	1.036±0.007	0.004±0.004	0.032±0.006
54.5	-1.8±0.3	0.3±0.2	-0.13±0.01	-1.25±0.02	1.057±0.007	1.056±0.007	0.005±0.004	0.032±0.006
59.5	-1.7±0.3	0.3±0.2	-0.10±0.01	-1.24±0.02	1.068±0.007	1.068±0.007	0.005±0.004	0.032±0.006
64.6	-1.6±0.3	0.3±0.2	-0.07±0.01	-1.24±0.02	1.082±0.007	1.081±0.007	0.006±0.004	0.031±0.006
69.7	-1.6±0.3	0.4±0.2	-0.04±0.01	-1.25±0.02	1.099±0.007	1.099±0.007	0.007±0.004	0.030±0.006
74.8	-1.6±0.3	0.4±0.2	-0.02±0.01	-1.24±0.02	1.105±0.007	1.105±0.007	0.008±0.004	0.030±0.006
79.9	-1.5±0.3	0.4±0.2	-0.01±0.01	-1.24±0.02	1.111±0.007	1.111±0.007	0.007±0.004	0.030±0.006
84.9	-1.5±0.3	0.4±0.2	0.00±0.01	-1.24±0.02	1.115±0.007	1.114±0.007	0.007±0.004	0.030±0.006
90.0	-1.5±0.3	0.4±0.2	0.01±0.01	-1.24±0.02	1.117±0.007	1.116±0.007	0.007±0.004	0.029±0.006
100.2	-1.5±0.3	0.3±0.2	0.01±0.01	-1.24±0.02	1.118±0.007	1.118±0.007	0.006±0.004	0.029±0.006
110.3	-1.4±0.3	0.2±0.2	0.01±0.01	-1.24±0.02	1.118±0.007	1.117±0.007	0.005±0.004	0.028±0.006
120.5	-1.4±0.3	0.2±0.2	0.01±0.01	-1.24±0.02	1.117±0.007	1.117±0.007	0.004±0.004	0.027±0.006
130.7	-1.3±0.3	0.1±0.2	0.01±0.01	-1.24±0.02	1.117±0.007	1.116±0.007	0.003±0.004	0.026±0.006
140.8	-1.3±0.3	0.1±0.2	0.01±0.01	-1.24±0.02	1.117±0.007	1.117±0.007	0.002±0.004	0.026±0.006

Table B.267 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.8±0.3	0.9±0.5	-0.72±0.01	-1.23±0.02	0.716±0.007	0.714±0.007	0.011±0.006	0.047±0.004
4.7	-3.6±0.3	0.4±0.5	-0.69±0.01	-1.24±0.02	0.747±0.007	0.746±0.007	0.005±0.006	0.046±0.004
5.7	-3.3±0.3	0.2±0.4	-0.65±0.01	-1.25±0.02	0.771±0.007	0.770±0.007	0.003±0.006	0.044±0.004
6.7	-3.0±0.3	0.0±0.4	-0.62±0.01	-1.24±0.02	0.792±0.007	0.791±0.007	0.000±0.006	0.042±0.004
7.7	-2.9±0.3	0.0±0.4	-0.59±0.01	-1.24±0.02	0.804±0.007	0.803±0.007	-0.001±0.005	0.041±0.004
8.7	-2.7±0.3	0.0±0.4	-0.57±0.01	-1.24±0.02	0.821±0.007	0.820±0.007	0.000±0.005	0.039±0.005
9.8	-2.7±0.3	0.0±0.4	-0.56±0.01	-1.24±0.02	0.830±0.007	0.829±0.007	0.000±0.005	0.039±0.005
10.8	-2.6±0.3	-0.1±0.4	-0.54±0.01	-1.24±0.02	0.837±0.007	0.837±0.007	-0.001±0.005	0.038±0.005
11.8	-2.4±0.3	0.0±0.4	-0.53±0.01	-1.25±0.02	0.849±0.007	0.848±0.007	0.000±0.005	0.036±0.005
12.8	-2.4±0.3	-0.1±0.3	-0.51±0.01	-1.25±0.02	0.861±0.007	0.860±0.006	-0.001±0.005	0.037±0.005
13.8	-2.4±0.3	0.0±0.3	-0.50±0.01	-1.24±0.02	0.863±0.006	0.862±0.006	0.000±0.005	0.036±0.005
16.4	-2.3±0.3	0.0±0.3	-0.46±0.01	-1.24±0.02	0.885±0.006	0.884±0.006	0.000±0.005	0.036±0.005
18.9	-2.3±0.3	0.0±0.3	-0.44±0.01	-1.25±0.02	0.902±0.006	0.901±0.006	0.001±0.005	0.037±0.005
21.4	-2.3±0.3	0.1±0.3	-0.41±0.01	-1.25±0.02	0.917±0.006	0.916±0.006	0.001±0.005	0.037±0.005
24.0	-2.3±0.3	0.1±0.3	-0.38±0.01	-1.24±0.02	0.926±0.006	0.925±0.006	0.001±0.005	0.037±0.005
26.5	-2.3±0.3	0.1±0.3	-0.36±0.01	-1.25±0.02	0.945±0.006	0.944±0.006	0.001±0.005	0.037±0.005
29.1	-2.3±0.3	0.1±0.3	-0.33±0.01	-1.24±0.02	0.953±0.006	0.953±0.006	0.002±0.005	0.038±0.005
31.6	-2.2±0.3	0.1±0.3	-0.32±0.01	-1.25±0.02	0.968±0.006	0.967±0.006	0.002±0.005	0.038±0.005
34.1	-2.2±0.3	0.1±0.3	-0.30±0.01	-1.25±0.02	0.978±0.006	0.977±0.006	0.002±0.004	0.038±0.005
36.7	-2.2±0.3	0.1±0.3	-0.26±0.01	-1.24±0.02	0.990±0.006	0.989±0.006	0.002±0.004	0.038±0.005
39.2	-2.2±0.3	0.2±0.3	-0.25±0.01	-1.25±0.02	1.000±0.006	1.000±0.006	0.004±0.004	0.038±0.006
44.3	-2.1±0.3	0.3±0.2	-0.20±0.01	-1.24±0.02	1.022±0.007	1.021±0.006	0.005±0.004	0.038±0.006
49.4	-2.1±0.3	0.2±0.2	-0.16±0.01	-1.24±0.02	1.038±0.007	1.037±0.007	0.004±0.004	0.038±0.006
54.5	-2.1±0.3	0.3±0.2	-0.13±0.01	-1.25±0.02	1.059±0.007	1.058±0.007	0.005±0.004	0.039±0.006
59.5	-2.1±0.3	0.4±0.2	-0.09±0.01	-1.24±0.02	1.073±0.007	1.072±0.007	0.007±0.004	0.039±0.006
64.6	-2.0±0.3	0.4±0.2	-0.06±0.01	-1.24±0.02	1.085±0.007	1.084±0.007	0.007±0.004	0.039±0.006
69.7	-2.0±0.3	0.4±0.2	-0.04±0.01	-1.24±0.02	1.098±0.007	1.098±0.007	0.007±0.004	0.038±0.006
74.8	-2.0±0.3	0.4±0.2	-0.01±0.01	-1.23±0.02	1.105±0.007	1.104±0.007	0.007±0.004	0.038±0.006
79.9	-2.0±0.3	0.4±0.2	0.00±0.01	-1.24±0.02	1.111±0.007	1.110±0.007	0.007±0.004	0.038±0.006
84.9	-1.9±0.3	0.4±0.2	0.00±0.01	-1.24±0.02	1.114±0.007	1.114±0.007	0.007±0.004	0.038±0.006
90.0	-1.9±0.3	0.4±0.2	0.01±0.01	-1.24±0.02	1.116±0.007	1.115±0.007	0.007±0.004	0.038±0.006
100.2	-2.0±0.3	0.3±0.2	0.01±0.01	-1.24±0.02	1.116±0.007	1.115±0.007	0.006±0.004	0.038±0.006
110.3	-1.9±0.3	0.2±0.2	0.01±0.01	-1.24±0.02	1.116±0.007	1.116±0.007	0.004±0.004	0.036±0.006
120.5	-1.7±0.3	0.2±0.2	0.01±0.01	-1.23±0.02	1.116±0.007	1.115±0.007	0.004±0.004	0.033±0.006
130.7	-1.7±0.3	0.1±0.2	0.01±0.01	-1.24±0.02	1.116±0.007	1.115±0.007	0.002±0.004	0.033±0.006
140.8	-1.7±0.3	0.0±0.2	0.01±0.01	-1.24±0.02	1.117±0.007	1.116±0.007	0.000±0.004	0.034±0.006

Table B.268 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-4.6±0.3	0.9±0.5	-0.74±0.01	-1.22±0.02	0.697±0.007	0.695±0.007	0.011±0.006	0.055±0.004
4.7	-4.2±0.3	0.3±0.5	-0.70±0.01	-1.23±0.02	0.731±0.007	0.729±0.007	0.004±0.006	0.054±0.004
5.7	-3.9±0.3	0.3±0.4	-0.66±0.01	-1.23±0.02	0.755±0.007	0.753±0.007	0.004±0.006	0.051±0.004
6.7	-3.7±0.3	0.1±0.4	-0.63±0.01	-1.24±0.02	0.778±0.007	0.776±0.007	0.001±0.006	0.051±0.004
7.7	-3.6±0.3	0.0±0.4	-0.61±0.01	-1.24±0.02	0.792±0.007	0.790±0.007	0.001±0.006	0.049±0.004
8.7	-3.3±0.3	0.0±0.4	-0.59±0.01	-1.24±0.02	0.806±0.007	0.805±0.007	0.000±0.005	0.047±0.004
9.8	-3.2±0.3	0.1±0.4	-0.57±0.01	-1.24±0.02	0.820±0.007	0.819±0.007	0.001±0.005	0.046±0.005
10.8	-3.2±0.3	0.1±0.4	-0.56±0.01	-1.23±0.02	0.823±0.007	0.822±0.007	0.001±0.005	0.045±0.005
11.8	-3.1±0.3	0.0±0.4	-0.54±0.01	-1.24±0.02	0.837±0.007	0.836±0.007	0.001±0.005	0.046±0.005
12.8	-3.1±0.3	0.2±0.4	-0.53±0.01	-1.24±0.02	0.842±0.007	0.840±0.006	0.002±0.005	0.045±0.005
13.8	-3.0±0.3	0.2±0.3	-0.51±0.01	-1.24±0.02	0.853±0.006	0.852±0.006	0.003±0.005	0.044±0.005
16.4	-3.0±0.3	0.2±0.3	-0.48±0.01	-1.24±0.02	0.868±0.006	0.867±0.006	0.003±0.005	0.045±0.005
18.9	-3.0±0.3	0.2±0.3	-0.45±0.01	-1.23±0.02	0.884±0.006	0.883±0.006	0.003±0.005	0.046±0.005
21.4	-3.0±0.3	0.3±0.3	-0.43±0.01	-1.24±0.02	0.903±0.006	0.901±0.006	0.004±0.005	0.047±0.005
24.0	-3.0±0.3	0.3±0.3	-0.40±0.01	-1.23±0.02	0.912±0.006	0.910±0.006	0.005±0.005	0.047±0.005
26.5	-2.9±0.3	0.3±0.3	-0.37±0.01	-1.24±0.02	0.931±0.006	0.929±0.006	0.004±0.005	0.048±0.005
29.1	-2.9±0.3	0.3±0.3	-0.35±0.01	-1.23±0.02	0.940±0.006	0.939±0.006	0.006±0.005	0.048±0.005
31.6	-2.9±0.3	0.3±0.3	-0.33±0.01	-1.24±0.02	0.956±0.006	0.954±0.006	0.006±0.005	0.049±0.005
34.1	-2.9±0.3	0.4±0.3	-0.30±0.01	-1.24±0.02	0.969±0.006	0.968±0.006	0.006±0.005	0.049±0.005
36.7	-2.9±0.3	0.4±0.3	-0.27±0.01	-1.24±0.02	0.983±0.006	0.981±0.006	0.006±0.004	0.049±0.005
39.2	-2.8±0.3	0.4±0.3	-0.25±0.01	-1.24±0.02	0.992±0.006	0.991±0.006	0.007±0.004	0.049±0.005
44.3	-2.8±0.3	0.4±0.2	-0.22±0.01	-1.24±0.02	1.011±0.006	1.010±0.006	0.007±0.004	0.049±0.006
49.4	-2.8±0.3	0.4±0.2	-0.18±0.01	-1.25±0.02	1.032±0.006	1.031±0.006	0.007±0.004	0.050±0.006
54.5	-2.8±0.3	0.4±0.2	-0.14±0.01	-1.24±0.02	1.048±0.007	1.047±0.007	0.008±0.004	0.050±0.006
59.5	-2.7±0.3	0.4±0.2	-0.10±0.01	-1.24±0.02	1.066±0.007	1.065±0.007	0.008±0.004	0.051±0.006
64.6	-2.8±0.3	0.4±0.2	-0.07±0.01	-1.23±0.02	1.079±0.007	1.078±0.007	0.008±0.004	0.052±0.006
69.7	-2.7±0.3	0.4±0.2	-0.05±0.01	-1.23±0.02	1.091±0.007	1.089±0.007	0.008±0.004	0.052±0.006
74.8	-2.7±0.3	0.4±0.2	-0.02±0.01	-1.23±0.02	1.099±0.007	1.098±0.007	0.008±0.004	0.051±0.006
79.9	-2.7±0.3	0.4±0.2	-0.01±0.01	-1.23±0.02	1.103±0.007	1.102±0.007	0.008±0.004	0.051±0.006
84.9	-2.7±0.3	0.4±0.2	0.00±0.01	-1.23±0.02	1.110±0.007	1.109±0.007	0.008±0.004	0.052±0.006
90.0	-2.6±0.3	0.4±0.2	0.01±0.01	-1.23±0.02	1.112±0.007	1.111±0.007	0.008±0.004	0.051±0.006
100.2	-2.6±0.3	0.4±0.2	0.01±0.01	-1.23±0.02	1.113±0.007	1.112±0.007	0.007±0.004	0.051±0.006
110.3	-2.5±0.3	0.2±0.2	0.01±0.01	-1.23±0.02	1.113±0.007	1.112±0.007	0.005±0.004	0.049±0.006
120.5	-2.5±0.3	0.2±0.2	0.01±0.01	-1.23±0.02	1.113±0.007	1.112±0.007	0.004±0.004	0.048±0.006
130.7	-2.4±0.3	0.1±0.2	0.01±0.01	-1.23±0.02	1.113±0.007	1.112±0.007	0.001±0.004	0.047±0.006
140.8	-2.4±0.3	0.0±0.2	0.01±0.01	-1.23±0.02	1.113±0.007	1.112±0.007	0.000±0.004	0.047±0.006

Table B.269 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-5.0±0.3	0.9±0.5	-0.75±0.01	-1.22±0.02	0.680±0.007	0.677±0.007	0.011±0.006	0.059±0.004
4.7	-4.7±0.3	0.4±0.5	-0.71±0.01	-1.23±0.02	0.717±0.007	0.715±0.007	0.005±0.006	0.058±0.004
5.7	-4.4±0.3	0.3±0.4	-0.67±0.01	-1.23±0.02	0.748±0.007	0.746±0.007	0.004±0.006	0.057±0.004
6.7	-4.1±0.3	0.2±0.4	-0.64±0.01	-1.23±0.02	0.769±0.007	0.767±0.007	0.002±0.006	0.055±0.004
7.7	-3.9±0.3	0.1±0.4	-0.62±0.01	-1.23±0.02	0.786±0.007	0.784±0.007	0.001±0.006	0.054±0.004
8.7	-3.7±0.3	0.1±0.4	-0.59±0.01	-1.23±0.02	0.799±0.007	0.797±0.007	0.001±0.005	0.052±0.004
9.8	-3.6±0.3	0.2±0.4	-0.58±0.01	-1.23±0.02	0.811±0.007	0.810±0.007	0.003±0.005	0.051±0.004
10.8	-3.6±0.3	0.3±0.4	-0.56±0.01	-1.23±0.02	0.821±0.006	0.819±0.006	0.004±0.005	0.051±0.005
11.8	-3.6±0.3	0.3±0.4	-0.55±0.01	-1.24±0.02	0.830±0.006	0.828±0.006	0.004±0.005	0.052±0.005
12.8	-3.5±0.3	0.3±0.4	-0.52±0.01	-1.22±0.02	0.835±0.006	0.833±0.006	0.004±0.005	0.051±0.005
13.8	-3.4±0.3	0.3±0.3	-0.52±0.01	-1.24±0.02	0.850±0.006	0.848±0.006	0.005±0.005	0.051±0.005
16.4	-3.5±0.3	0.4±0.3	-0.49±0.01	-1.24±0.02	0.864±0.006	0.863±0.006	0.005±0.005	0.053±0.005
18.9	-3.6±0.3	0.4±0.3	-0.47±0.01	-1.24±0.02	0.877±0.006	0.876±0.006	0.006±0.005	0.055±0.005
21.4	-3.6±0.3	0.4±0.3	-0.44±0.01	-1.24±0.02	0.897±0.006	0.895±0.006	0.006±0.005	0.056±0.005
24.0	-3.6±0.3	0.4±0.3	-0.41±0.01	-1.24±0.02	0.912±0.006	0.910±0.006	0.006±0.005	0.057±0.005
26.5	-3.6±0.3	0.4±0.3	-0.39±0.01	-1.25±0.02	0.924±0.006	0.922±0.006	0.007±0.005	0.057±0.005
29.1	-3.6±0.3	0.4±0.3	-0.35±0.01	-1.23±0.02	0.935±0.006	0.933±0.006	0.007±0.005	0.059±0.005
31.6	-3.6±0.3	0.5±0.3	-0.33±0.01	-1.24±0.02	0.950±0.006	0.948±0.006	0.008±0.005	0.060±0.005
34.1	-3.6±0.3	0.4±0.3	-0.31±0.01	-1.24±0.02	0.961±0.006	0.960±0.006	0.008±0.005	0.060±0.005
36.7	-3.5±0.3	0.5±0.3	-0.28±0.01	-1.22±0.02	0.970±0.006	0.969±0.006	0.008±0.004	0.060±0.005
39.2	-3.5±0.3	0.5±0.3	-0.26±0.01	-1.22±0.02	0.981±0.006	0.979±0.006	0.008±0.004	0.060±0.005
44.3	-3.5±0.3	0.5±0.2	-0.22±0.01	-1.23±0.02	1.006±0.006	1.004±0.006	0.008±0.004	0.062±0.006
49.4	-3.5±0.3	0.5±0.2	-0.19±0.01	-1.24±0.02	1.023±0.006	1.021±0.006	0.008±0.004	0.062±0.006
54.5	-3.5±0.3	0.5±0.2	-0.15±0.01	-1.24±0.02	1.043±0.006	1.041±0.006	0.008±0.004	0.064±0.006
59.5	-3.5±0.3	0.5±0.2	-0.10±0.01	-1.22±0.02	1.057±0.006	1.055±0.006	0.008±0.004	0.064±0.006
64.6	-3.4±0.3	0.4±0.2	-0.08±0.01	-1.23±0.02	1.071±0.007	1.069±0.007	0.008±0.004	0.064±0.006
69.7	-3.4±0.3	0.5±0.2	-0.05±0.01	-1.23±0.02	1.084±0.007	1.082±0.007	0.009±0.004	0.064±0.006
74.8	-3.3±0.3	0.4±0.2	-0.03±0.01	-1.23±0.02	1.094±0.007	1.092±0.007	0.009±0.004	0.064±0.006
79.9	-3.3±0.3	0.4±0.2	-0.01±0.01	-1.22±0.02	1.100±0.007	1.098±0.007	0.008±0.004	0.064±0.006
84.9	-3.3±0.3	0.4±0.2	0.00±0.01	-1.23±0.02	1.107±0.007	1.105±0.007	0.009±0.004	0.064±0.006
90.0	-3.3±0.3	0.4±0.2	0.00±0.01	-1.23±0.02	1.110±0.007	1.108±0.007	0.008±0.004	0.064±0.006
100.2	-3.2±0.3	0.4±0.2	0.01±0.01	-1.23±0.02	1.111±0.007	1.109±0.007	0.007±0.004	0.063±0.006
110.3	-3.2±0.3	0.3±0.2	0.01±0.01	-1.22±0.02	1.111±0.007	1.109±0.007	0.005±0.004	0.062±0.006
120.5	-3.2±0.3	0.2±0.2	0.01±0.01	-1.22±0.02	1.111±0.007	1.109±0.007	0.003±0.004	0.062±0.006
130.7	-3.2±0.3	0.0±0.2	0.01±0.01	-1.22±0.02	1.110±0.007	1.108±0.007	0.000±0.004	0.063±0.006
140.8	-3.2±0.3	0.0±0.2	0.01±0.01	-1.22±0.02	1.111±0.007	1.109±0.007	0.000±0.004	0.061±0.006

Table B.270 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-5.3±0.3	0.9±0.6	-0.77±0.01	-1.22±0.02	0.673±0.007	0.670±0.007	0.011±0.006	0.063±0.004
4.7	-5.1±0.3	0.4±0.5	-0.72±0.01	-1.22±0.02	0.705±0.007	0.703±0.007	0.005±0.006	0.062±0.004
5.7	-4.7±0.3	0.3±0.5	-0.68±0.01	-1.22±0.02	0.734±0.007	0.731±0.007	0.004±0.006	0.061±0.004
6.7	-4.5±0.3	0.3±0.4	-0.65±0.01	-1.23±0.02	0.759±0.007	0.756±0.007	0.003±0.006	0.059±0.004
7.7	-4.3±0.3	0.3±0.4	-0.62±0.01	-1.22±0.02	0.777±0.007	0.775±0.007	0.004±0.006	0.058±0.004
8.7	-4.1±0.3	0.3±0.4	-0.59±0.01	-1.22±0.02	0.791±0.007	0.789±0.007	0.004±0.005	0.057±0.004
9.8	-4.0±0.3	0.3±0.4	-0.57±0.01	-1.21±0.02	0.802±0.007	0.800±0.007	0.004±0.005	0.057±0.004
10.8	-3.9±0.3	0.3±0.4	-0.56±0.01	-1.22±0.02	0.815±0.007	0.813±0.007	0.005±0.005	0.055±0.005
11.8	-3.9±0.3	0.4±0.4	-0.54±0.01	-1.22±0.02	0.826±0.006	0.824±0.006	0.005±0.005	0.057±0.005
12.8	-3.9±0.3	0.4±0.4	-0.53±0.01	-1.22±0.02	0.830±0.006	0.829±0.006	0.005±0.005	0.057±0.005
13.8	-3.9±0.3	0.4±0.4	-0.52±0.01	-1.22±0.02	0.837±0.006	0.835±0.006	0.005±0.005	0.057±0.005
16.4	-4.0±0.3	0.5±0.3	-0.49±0.01	-1.22±0.02	0.856±0.006	0.854±0.006	0.007±0.005	0.060±0.005
18.9	-4.0±0.3	0.5±0.3	-0.47±0.01	-1.23±0.02	0.874±0.006	0.872±0.006	0.007±0.005	0.062±0.005
21.4	-4.1±0.3	0.4±0.3	-0.44±0.01	-1.22±0.02	0.884±0.006	0.881±0.006	0.007±0.005	0.063±0.005
24.0	-4.1±0.3	0.5±0.3	-0.41±0.01	-1.23±0.02	0.905±0.006	0.902±0.006	0.008±0.005	0.065±0.005
26.5	-4.2±0.3	0.5±0.3	-0.39±0.01	-1.23±0.02	0.916±0.006	0.913±0.006	0.008±0.005	0.067±0.005
29.1	-4.2±0.3	0.6±0.3	-0.36±0.01	-1.22±0.02	0.928±0.006	0.925±0.006	0.009±0.005	0.067±0.005
31.6	-4.2±0.3	0.6±0.3	-0.34±0.01	-1.23±0.02	0.943±0.006	0.941±0.006	0.010±0.005	0.068±0.005
34.1	-4.2±0.3	0.6±0.3	-0.32±0.01	-1.23±0.02	0.955±0.006	0.953±0.006	0.010±0.005	0.069±0.005
36.7	-4.1±0.3	0.6±0.3	-0.29±0.01	-1.23±0.02	0.968±0.006	0.965±0.006	0.011±0.004	0.070±0.005
39.2	-4.1±0.3	0.7±0.3	-0.27±0.01	-1.22±0.02	0.976±0.006	0.974±0.006	0.012±0.004	0.070±0.005
44.3	-4.1±0.3	0.7±0.2	-0.23±0.01	-1.23±0.02	0.999±0.006	0.997±0.006	0.012±0.004	0.072±0.006
49.4	-4.1±0.3	0.7±0.2	-0.18±0.01	-1.22±0.02	1.019±0.006	1.017±0.006	0.012±0.004	0.072±0.006
54.5	-4.1±0.3	0.7±0.2	-0.15±0.01	-1.22±0.02	1.033±0.006	1.030±0.006	0.012±0.004	0.073±0.006
59.5	-4.0±0.3	0.7±0.2	-0.11±0.01	-1.22±0.02	1.054±0.006	1.051±0.006	0.012±0.004	0.074±0.006
64.6	-4.0±0.3	0.6±0.2	-0.08±0.01	-1.22±0.02	1.066±0.007	1.063±0.007	0.011±0.004	0.074±0.006
69.7	-4.0±0.3	0.5±0.2	-0.05±0.01	-1.22±0.02	1.081±0.007	1.078±0.007	0.010±0.004	0.076±0.006
74.8	-3.9±0.3	0.5±0.2	-0.03±0.01	-1.22±0.02	1.093±0.007	1.090±0.007	0.010±0.004	0.075±0.006
79.9	-3.9±0.3	0.5±0.2	-0.01±0.01	-1.22±0.02	1.097±0.007	1.094±0.007	0.009±0.004	0.075±0.006
84.9	-3.9±0.3	0.4±0.2	0.00±0.01	-1.22±0.02	1.103±0.007	1.100±0.007	0.008±0.004	0.075±0.006
90.0	-3.9±0.3	0.4±0.2	0.00±0.01	-1.22±0.02	1.105±0.007	1.103±0.007	0.008±0.004	0.075±0.006
100.2	-3.8±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.108±0.007	1.106±0.007	0.007±0.004	0.073±0.006
110.3	-3.8±0.3	0.2±0.2	0.01±0.01	-1.22±0.02	1.108±0.007	1.105±0.007	0.004±0.004	0.073±0.006
120.5	-3.8±0.3	0.0±0.2	0.01±0.01	-1.22±0.02	1.108±0.007	1.105±0.007	0.001±0.004	0.073±0.006
130.7	-3.7±0.3	-0.1±0.2	0.01±0.01	-1.22±0.02	1.107±0.007	1.104±0.007	-0.002±0.004	0.072±0.006
140.8	-3.7±0.3	-0.2±0.2	0.01±0.01	-1.22±0.02	1.107±0.007	1.105±0.007	-0.004±0.004	0.071±0.006

Table B.271 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-5.0±0.3	0.9±0.6	-0.78±0.01	-1.22±0.02	0.660±0.007	0.657±0.007	0.010±0.007	0.057±0.004
4.7	-4.8±0.3	0.4±0.5	-0.73±0.01	-1.21±0.02	0.695±0.007	0.693±0.007	0.004±0.006	0.058±0.004
5.7	-4.4±0.3	0.3±0.5	-0.68±0.01	-1.21±0.02	0.724±0.007	0.722±0.007	0.004±0.006	0.056±0.004
6.7	-4.3±0.3	0.3±0.4	-0.64±0.01	-1.20±0.02	0.749±0.007	0.747±0.007	0.004±0.006	0.056±0.004
7.7	-4.1±0.3	0.3±0.4	-0.62±0.01	-1.21±0.02	0.769±0.007	0.767±0.007	0.004±0.006	0.054±0.004
8.7	-3.9±0.3	0.3±0.4	-0.59±0.01	-1.21±0.02	0.787±0.007	0.785±0.007	0.005±0.006	0.054±0.004
9.8	-3.8±0.3	0.4±0.4	-0.58±0.01	-1.22±0.02	0.801±0.007	0.800±0.007	0.005±0.005	0.053±0.004
10.8	-3.8±0.3	0.4±0.4	-0.55±0.01	-1.21±0.02	0.815±0.007	0.813±0.007	0.005±0.005	0.054±0.005
11.8	-3.7±0.3	0.4±0.4	-0.54±0.01	-1.21±0.02	0.821±0.007	0.820±0.007	0.006±0.005	0.054±0.005
12.8	-3.8±0.3	0.4±0.4	-0.52±0.01	-1.21±0.02	0.831±0.007	0.829±0.006	0.006±0.005	0.055±0.005
13.8	-3.8±0.3	0.4±0.4	-0.52±0.01	-1.22±0.02	0.837±0.006	0.835±0.006	0.006±0.005	0.056±0.005
16.4	-4.0±0.3	0.5±0.3	-0.48±0.01	-1.21±0.02	0.851±0.006	0.849±0.006	0.008±0.005	0.059±0.005
18.9	-4.1±0.3	0.6±0.3	-0.47±0.01	-1.22±0.02	0.867±0.006	0.865±0.006	0.009±0.005	0.062±0.005
21.4	-4.2±0.3	0.7±0.3	-0.43±0.01	-1.21±0.02	0.882±0.006	0.879±0.006	0.010±0.005	0.064±0.005
24.0	-4.2±0.3	0.7±0.3	-0.41±0.01	-1.22±0.02	0.897±0.006	0.894±0.006	0.011±0.005	0.066±0.005
26.5	-4.3±0.3	0.7±0.3	-0.38±0.01	-1.21±0.02	0.909±0.006	0.906±0.006	0.011±0.005	0.067±0.005
29.1	-4.3±0.3	0.7±0.3	-0.35±0.01	-1.21±0.02	0.924±0.006	0.922±0.006	0.012±0.005	0.069±0.005
31.6	-4.3±0.3	0.7±0.3	-0.33±0.01	-1.21±0.02	0.936±0.006	0.933±0.006	0.012±0.005	0.070±0.005
34.1	-4.2±0.3	0.7±0.3	-0.32±0.01	-1.21±0.02	0.945±0.006	0.942±0.006	0.012±0.005	0.069±0.005
36.7	-4.3±0.3	0.8±0.3	-0.29±0.01	-1.21±0.02	0.957±0.006	0.954±0.006	0.013±0.005	0.071±0.005
39.2	-4.3±0.3	0.7±0.3	-0.27±0.01	-1.21±0.02	0.972±0.006	0.969±0.006	0.012±0.004	0.073±0.005
44.3	-4.3±0.3	0.7±0.3	-0.22±0.01	-1.21±0.02	0.993±0.006	0.990±0.006	0.012±0.004	0.074±0.005
49.4	-4.3±0.3	0.7±0.2	-0.19±0.01	-1.21±0.02	1.009±0.006	1.007±0.006	0.013±0.004	0.075±0.006
54.5	-4.2±0.3	0.7±0.2	-0.15±0.01	-1.20±0.02	1.028±0.006	1.025±0.006	0.013±0.004	0.075±0.006
59.5	-4.2±0.3	0.7±0.2	-0.11±0.01	-1.20±0.02	1.046±0.006	1.043±0.006	0.012±0.004	0.076±0.006
64.6	-4.2±0.3	0.7±0.2	-0.09±0.01	-1.21±0.02	1.058±0.007	1.055±0.007	0.012±0.004	0.077±0.006
69.7	-4.1±0.3	0.6±0.2	-0.05±0.01	-1.20±0.02	1.072±0.007	1.069±0.007	0.012±0.004	0.077±0.006
74.8	-4.1±0.3	0.6±0.2	-0.03±0.01	-1.21±0.02	1.083±0.007	1.080±0.007	0.012±0.004	0.077±0.006
79.9	-4.1±0.3	0.6±0.2	-0.01±0.01	-1.20±0.02	1.090±0.007	1.087±0.007	0.010±0.004	0.077±0.006
84.9	-4.0±0.3	0.4±0.2	0.00±0.01	-1.20±0.02	1.095±0.007	1.092±0.007	0.008±0.004	0.076±0.006
90.0	-3.9±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.095±0.007	0.008±0.004	0.075±0.006
100.2	-4.0±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.099±0.007	1.096±0.007	0.007±0.004	0.076±0.006
110.3	-3.9±0.3	0.2±0.2	0.01±0.01	-1.20±0.02	1.099±0.007	1.096±0.007	0.004±0.004	0.075±0.006
120.5	-3.9±0.3	0.0±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.095±0.007	0.000±0.004	0.075±0.006
130.7	-3.8±0.3	-0.1±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.096±0.007	-0.002±0.004	0.073±0.006
140.8	-3.7±0.3	-0.3±0.2	0.01±0.01	-1.20±0.02	1.099±0.007	1.096±0.007	-0.006±0.004	0.071±0.006

Table B.272 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-5.6±0.3	0.7±0.6	-0.78±0.01	-1.21±0.02	0.656±0.007	0.652±0.007	0.009±0.007	0.064±0.004
4.7	-5.3±0.3	0.3±0.5	-0.72±0.01	-1.20±0.02	0.691±0.007	0.688±0.007	0.004±0.006	0.063±0.004
5.7	-4.9±0.3	0.3±0.5	-0.69±0.01	-1.22±0.02	0.726±0.007	0.724±0.007	0.004±0.006	0.062±0.004
6.7	-4.8±0.3	0.3±0.4	-0.64±0.01	-1.21±0.02	0.750±0.007	0.747±0.007	0.004±0.006	0.063±0.004
7.7	-4.5±0.3	0.3±0.4	-0.61±0.01	-1.21±0.02	0.774±0.007	0.771±0.007	0.005±0.006	0.061±0.004
8.7	-4.4±0.3	0.3±0.4	-0.59±0.01	-1.21±0.02	0.790±0.007	0.787±0.007	0.005±0.005	0.061±0.004
9.8	-4.3±0.3	0.3±0.4	-0.57±0.01	-1.22±0.02	0.806±0.007	0.804±0.007	0.005±0.005	0.061±0.004
10.8	-4.4±0.3	0.4±0.4	-0.55±0.01	-1.21±0.02	0.816±0.007	0.813±0.006	0.006±0.005	0.062±0.005
11.8	-4.4±0.3	0.4±0.4	-0.53±0.01	-1.22±0.02	0.826±0.006	0.823±0.006	0.006±0.005	0.063±0.005
12.8	-4.4±0.3	0.5±0.4	-0.52±0.01	-1.21±0.02	0.829±0.006	0.826±0.006	0.007±0.005	0.064±0.005
13.8	-4.4±0.3	0.5±0.4	-0.52±0.01	-1.22±0.02	0.837±0.006	0.835±0.006	0.007±0.005	0.064±0.005
16.4	-4.5±0.3	0.6±0.3	-0.49±0.01	-1.22±0.02	0.853±0.006	0.850±0.006	0.008±0.005	0.068±0.005
18.9	-4.7±0.3	0.7±0.3	-0.47±0.01	-1.21±0.02	0.865±0.006	0.862±0.006	0.010±0.005	0.071±0.005
21.4	-4.8±0.3	0.7±0.3	-0.44±0.01	-1.22±0.02	0.881±0.006	0.878±0.006	0.011±0.005	0.074±0.005
24.0	-4.8±0.3	0.7±0.3	-0.41±0.01	-1.21±0.02	0.893±0.006	0.890±0.006	0.011±0.005	0.075±0.005
26.5	-5.0±0.3	0.8±0.3	-0.39±0.01	-1.22±0.02	0.908±0.006	0.904±0.006	0.012±0.005	0.079±0.005
29.1	-5.0±0.3	0.7±0.3	-0.37±0.01	-1.21±0.02	0.919±0.006	0.916±0.006	0.012±0.005	0.080±0.005
31.6	-5.0±0.3	0.8±0.3	-0.34±0.01	-1.21±0.02	0.934±0.006	0.930±0.006	0.013±0.005	0.081±0.005
34.1	-5.1±0.3	0.8±0.3	-0.31±0.01	-1.20±0.02	0.944±0.006	0.940±0.006	0.012±0.005	0.083±0.005
36.7	-5.0±0.3	0.8±0.3	-0.30±0.01	-1.22±0.02	0.959±0.006	0.955±0.006	0.014±0.005	0.083±0.005
39.2	-5.1±0.3	0.9±0.3	-0.28±0.01	-1.22±0.02	0.968±0.006	0.964±0.006	0.015±0.004	0.085±0.005
44.3	-5.0±0.3	0.9±0.3	-0.24±0.01	-1.20±0.02	0.983±0.006	0.979±0.006	0.016±0.004	0.086±0.005
49.4	-5.0±0.3	0.9±0.2	-0.19±0.01	-1.20±0.02	1.005±0.006	1.001±0.006	0.015±0.004	0.088±0.006
54.5	-5.0±0.3	0.9±0.2	-0.16±0.01	-1.21±0.02	1.025±0.006	1.021±0.006	0.016±0.004	0.089±0.006
59.5	-5.0±0.3	0.7±0.2	-0.12±0.01	-1.20±0.02	1.041±0.006	1.037±0.006	0.013±0.004	0.090±0.006
64.6	-5.0±0.3	0.7±0.2	-0.09±0.01	-1.21±0.02	1.057±0.006	1.053±0.006	0.013±0.004	0.092±0.006
69.7	-4.9±0.3	0.6±0.2	-0.06±0.01	-1.21±0.02	1.071±0.007	1.067±0.007	0.012±0.004	0.091±0.006
74.8	-4.9±0.3	0.7±0.2	-0.04±0.01	-1.20±0.02	1.079±0.007	1.075±0.007	0.012±0.004	0.092±0.006
79.9	-4.9±0.3	0.6±0.2	-0.02±0.01	-1.20±0.02	1.085±0.007	1.081±0.007	0.012±0.004	0.092±0.006
84.9	-4.8±0.3	0.6±0.2	-0.01±0.01	-1.20±0.02	1.094±0.007	1.090±0.007	0.011±0.004	0.091±0.006
90.0	-4.8±0.3	0.4±0.2	0.00±0.01	-1.20±0.02	1.097±0.007	1.093±0.007	0.008±0.004	0.092±0.006
100.2	-4.7±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.100±0.007	1.096±0.007	0.008±0.004	0.090±0.006
110.3	-4.6±0.3	0.3±0.2	0.01±0.01	-1.20±0.02	1.099±0.007	1.096±0.007	0.006±0.004	0.089±0.006
120.5	-4.6±0.3	0.1±0.2	0.01±0.01	-1.20±0.02	1.099±0.007	1.095±0.007	0.001±0.004	0.089±0.006
130.7	-4.6±0.3	0.0±0.2	0.01±0.01	-1.20±0.02	1.099±0.007	1.096±0.007	-0.001±0.004	0.088±0.006
140.8	-4.5±0.3	-0.2±0.2	0.01±0.01	-1.20±0.02	1.099±0.007	1.096±0.007	-0.004±0.004	0.086±0.006

Table B.273 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-5.2±0.3	0.9±0.6	-0.77±0.01	-1.20±0.02	0.659±0.007	0.656±0.007	0.010±0.007	0.060±0.004
4.7	-5.0±0.3	0.3±0.5	-0.72±0.01	-1.20±0.02	0.694±0.007	0.692±0.007	0.004±0.006	0.060±0.004
5.7	-4.7±0.3	0.3±0.5	-0.67±0.01	-1.21±0.02	0.737±0.007	0.735±0.007	0.004±0.006	0.060±0.004
6.7	-4.4±0.3	0.3±0.4	-0.64±0.01	-1.21±0.02	0.758±0.007	0.755±0.007	0.004±0.006	0.059±0.004
7.7	-4.3±0.3	0.3±0.4	-0.60±0.01	-1.20±0.02	0.780±0.007	0.777±0.007	0.005±0.006	0.058±0.004
8.7	-4.2±0.3	0.3±0.4	-0.57±0.01	-1.21±0.02	0.801±0.007	0.799±0.007	0.005±0.005	0.058±0.004
9.8	-4.1±0.3	0.3±0.4	-0.55±0.01	-1.21±0.02	0.812±0.007	0.810±0.007	0.005±0.005	0.058±0.004
10.8	-4.1±0.3	0.4±0.4	-0.53±0.01	-1.21±0.02	0.825±0.006	0.822±0.006	0.006±0.005	0.059±0.005
11.8	-4.1±0.3	0.4±0.4	-0.51±0.01	-1.20±0.02	0.830±0.006	0.828±0.006	0.006±0.005	0.060±0.005
12.8	-4.1±0.3	0.5±0.4	-0.51±0.01	-1.22±0.02	0.840±0.006	0.837±0.006	0.007±0.005	0.060±0.005
13.8	-4.2±0.3	0.5±0.3	-0.49±0.01	-1.21±0.02	0.847±0.006	0.845±0.006	0.007±0.005	0.063±0.005
16.4	-4.3±0.3	0.6±0.3	-0.47±0.01	-1.21±0.02	0.861±0.006	0.859±0.006	0.008±0.005	0.065±0.005
18.9	-4.5±0.3	0.6±0.3	-0.45±0.01	-1.21±0.02	0.872±0.006	0.870±0.006	0.009±0.005	0.069±0.005
21.4	-4.7±0.3	0.6±0.3	-0.43±0.01	-1.22±0.02	0.886±0.006	0.883±0.006	0.010±0.005	0.072±0.005
24.0	-4.7±0.3	0.7±0.3	-0.40±0.01	-1.21±0.02	0.899±0.006	0.896±0.006	0.010±0.005	0.074±0.005
26.5	-4.8±0.3	0.7±0.3	-0.37±0.01	-1.21±0.02	0.915±0.006	0.912±0.006	0.012±0.005	0.077±0.005
29.1	-4.8±0.3	0.7±0.3	-0.35±0.01	-1.21±0.02	0.926±0.006	0.923±0.006	0.012±0.005	0.078±0.005
31.6	-4.8±0.3	0.7±0.3	-0.33±0.01	-1.21±0.02	0.938±0.006	0.935±0.006	0.012±0.005	0.078±0.005
34.1	-4.8±0.3	0.8±0.3	-0.30±0.01	-1.21±0.02	0.952±0.006	0.949±0.006	0.013±0.005	0.080±0.005
36.7	-4.8±0.3	0.8±0.3	-0.28±0.01	-1.20±0.02	0.960±0.006	0.956±0.006	0.013±0.005	0.080±0.005
39.2	-4.8±0.3	0.9±0.3	-0.26±0.01	-1.21±0.02	0.973±0.006	0.969±0.006	0.015±0.004	0.082±0.005
44.3	-4.9±0.3	0.9±0.3	-0.22±0.01	-1.20±0.02	0.994±0.006	0.990±0.006	0.015±0.004	0.084±0.005
49.4	-4.9±0.3	0.8±0.2	-0.20±0.01	-1.22±0.02	1.011±0.006	1.008±0.006	0.014±0.004	0.085±0.006
54.5	-4.9±0.3	0.8±0.2	-0.15±0.01	-1.21±0.02	1.028±0.006	1.024±0.006	0.015±0.004	0.088±0.006
59.5	-4.9±0.3	0.7±0.2	-0.11±0.01	-1.21±0.02	1.047±0.006	1.043±0.006	0.013±0.004	0.088±0.006
64.6	-4.9±0.3	0.7±0.2	-0.08±0.01	-1.20±0.02	1.058±0.006	1.055±0.006	0.013±0.004	0.089±0.006
69.7	-4.8±0.3	0.7±0.2	-0.05±0.01	-1.19±0.02	1.069±0.007	1.065±0.007	0.013±0.004	0.089±0.006
74.8	-4.7±0.3	0.6±0.2	-0.03±0.01	-1.20±0.02	1.082±0.007	1.078±0.007	0.012±0.004	0.089±0.006
79.9	-4.7±0.3	0.6±0.2	-0.01±0.01	-1.19±0.02	1.087±0.007	1.083±0.007	0.011±0.004	0.089±0.006
84.9	-4.7±0.3	0.4±0.2	0.00±0.01	-1.19±0.02	1.092±0.007	1.088±0.007	0.008±0.004	0.089±0.006
90.0	-4.6±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.096±0.007	1.092±0.007	0.008±0.004	0.088±0.006
100.2	-4.5±0.3	0.3±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.095±0.007	0.006±0.004	0.087±0.006
110.3	-4.5±0.3	0.2±0.2	0.01±0.01	-1.19±0.02	1.098±0.007	1.094±0.007	0.003±0.004	0.086±0.006
120.5	-4.5±0.3	0.0±0.2	0.01±0.01	-1.19±0.02	1.097±0.007	1.094±0.007	-0.001±0.004	0.086±0.006
130.7	-4.4±0.3	-0.2±0.2	0.01±0.01	-1.19±0.02	1.097±0.007	1.093±0.007	-0.003±0.004	0.085±0.006
140.8	-4.3±0.3	-0.2±0.2	0.01±0.01	-1.19±0.02	1.096±0.007	1.093±0.007	-0.005±0.004	0.083±0.006

Table B.274 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-5.4±0.3	0.8±0.6	-0.76±0.01	-1.20±0.02	0.661±0.007	0.658±0.007	0.010±0.007	0.062±0.004
4.7	-5.2±0.3	0.3±0.5	-0.70±0.01	-1.20±0.02	0.707±0.007	0.704±0.007	0.004±0.006	0.064±0.004
5.7	-4.9±0.3	0.3±0.5	-0.66±0.01	-1.20±0.02	0.740±0.007	0.738±0.007	0.004±0.006	0.064±0.004
6.7	-4.7±0.3	0.3±0.4	-0.62±0.01	-1.20±0.02	0.764±0.007	0.761±0.007	0.004±0.006	0.063±0.004
7.7	-4.5±0.3	0.3±0.4	-0.58±0.01	-1.20±0.02	0.787±0.007	0.785±0.007	0.004±0.006	0.062±0.004
8.7	-4.4±0.3	0.3±0.4	-0.55±0.01	-1.20±0.02	0.805±0.007	0.803±0.007	0.005±0.005	0.061±0.004
9.8	-4.3±0.3	0.4±0.4	-0.54±0.01	-1.21±0.02	0.816±0.007	0.814±0.007	0.005±0.005	0.062±0.005
10.8	-4.3±0.3	0.4±0.4	-0.51±0.01	-1.20±0.02	0.827±0.006	0.825±0.006	0.006±0.005	0.063±0.005
11.8	-4.3±0.3	0.4±0.4	-0.50±0.01	-1.21±0.02	0.838±0.006	0.836±0.006	0.006±0.005	0.063±0.005
12.8	-4.5±0.3	0.5±0.4	-0.50±0.01	-1.21±0.02	0.843±0.006	0.841±0.006	0.007±0.005	0.065±0.005
13.8	-4.5±0.3	0.6±0.3	-0.48±0.01	-1.20±0.02	0.848±0.006	0.846±0.006	0.008±0.005	0.066±0.005
16.4	-4.7±0.3	0.5±0.3	-0.46±0.01	-1.20±0.02	0.863±0.006	0.860±0.006	0.008±0.005	0.071±0.005
18.9	-4.8±0.3	0.7±0.3	-0.44±0.01	-1.21±0.02	0.875±0.006	0.872±0.006	0.010±0.005	0.074±0.005
21.4	-5.0±0.3	0.7±0.3	-0.42±0.01	-1.20±0.02	0.886±0.006	0.882±0.006	0.011±0.005	0.077±0.005
24.0	-5.0±0.3	0.7±0.3	-0.39±0.01	-1.20±0.02	0.902±0.006	0.898±0.006	0.012±0.005	0.079±0.005
26.5	-5.1±0.3	0.7±0.3	-0.36±0.01	-1.20±0.02	0.918±0.006	0.915±0.006	0.012±0.005	0.081±0.005
29.1	-5.1±0.3	0.8±0.3	-0.34±0.01	-1.20±0.02	0.926±0.006	0.922±0.006	0.012±0.005	0.082±0.005
31.6	-5.2±0.3	0.9±0.3	-0.32±0.01	-1.20±0.02	0.941±0.006	0.937±0.006	0.014±0.005	0.085±0.005
34.1	-5.2±0.3	0.8±0.3	-0.30±0.01	-1.20±0.02	0.953±0.006	0.949±0.006	0.013±0.005	0.087±0.005
36.7	-5.3±0.3	0.9±0.3	-0.28±0.01	-1.21±0.02	0.965±0.006	0.960±0.006	0.015±0.005	0.088±0.005
39.2	-5.3±0.3	0.9±0.3	-0.25±0.01	-1.20±0.02	0.974±0.006	0.970±0.006	0.015±0.004	0.089±0.005
44.3	-5.3±0.3	0.8±0.3	-0.22±0.01	-1.21±0.02	0.994±0.006	0.990±0.006	0.015±0.004	0.091±0.005
49.4	-5.3±0.3	0.9±0.2	-0.18±0.01	-1.21±0.02	1.011±0.006	1.007±0.006	0.016±0.004	0.093±0.006
54.5	-5.3±0.3	0.8±0.2	-0.14±0.01	-1.21±0.02	1.032±0.006	1.027±0.006	0.015±0.004	0.095±0.006
59.5	-5.3±0.3	0.8±0.2	-0.11±0.01	-1.20±0.02	1.048±0.006	1.044±0.006	0.014±0.004	0.096±0.006
64.6	-5.2±0.3	0.7±0.2	-0.08±0.01	-1.20±0.02	1.057±0.006	1.052±0.006	0.013±0.004	0.096±0.006
69.7	-5.2±0.3	0.7±0.2	-0.05±0.01	-1.19±0.02	1.069±0.007	1.065±0.007	0.013±0.004	0.097±0.006
74.8	-5.1±0.3	0.6±0.2	-0.03±0.01	-1.20±0.02	1.080±0.007	1.076±0.007	0.012±0.004	0.096±0.006
79.9	-5.1±0.3	0.6±0.2	-0.01±0.01	-1.19±0.02	1.087±0.007	1.082±0.007	0.011±0.004	0.097±0.006
84.9	-5.1±0.3	0.5±0.2	0.00±0.01	-1.19±0.02	1.091±0.007	1.087±0.007	0.009±0.004	0.097±0.006
90.0	-5.0±0.3	0.4±0.2	0.00±0.01	-1.19±0.02	1.093±0.007	1.089±0.007	0.008±0.004	0.096±0.006
100.2	-5.0±0.3	0.2±0.2	0.01±0.01	-1.19±0.02	1.095±0.007	1.091±0.007	0.004±0.004	0.095±0.006
110.3	-4.9±0.3	0.1±0.2	0.01±0.01	-1.19±0.02	1.095±0.007	1.091±0.007	0.002±0.004	0.094±0.006
120.5	-4.9±0.3	0.0±0.2	0.01±0.01	-1.19±0.02	1.095±0.007	1.091±0.007	-0.001±0.004	0.093±0.006
130.7	-4.8±0.3	-0.2±0.2	0.01±0.01	-1.19±0.02	1.095±0.007	1.091±0.007	-0.004±0.004	0.092±0.006
140.8	-4.7±0.3	-0.2±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.090±0.007	-0.005±0.004	0.090±0.006

Table B.275 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-5.6±0.3	0.9±0.6	-0.75±0.01	-1.19±0.02	0.665±0.007	0.661±0.007	0.011±0.007	0.065±0.004
4.7	-5.3±0.3	0.4±0.5	-0.70±0.01	-1.20±0.02	0.711±0.007	0.708±0.007	0.004±0.006	0.065±0.004
5.7	-5.1±0.3	0.3±0.5	-0.65±0.01	-1.19±0.02	0.741±0.007	0.738±0.007	0.004±0.006	0.066±0.004
6.7	-4.8±0.3	0.3±0.4	-0.60±0.01	-1.20±0.02	0.774±0.007	0.772±0.007	0.005±0.006	0.065±0.004
7.7	-4.6±0.3	0.3±0.4	-0.57±0.01	-1.20±0.02	0.793±0.007	0.790±0.007	0.005±0.005	0.064±0.004
8.7	-4.6±0.3	0.3±0.4	-0.54±0.01	-1.20±0.02	0.813±0.007	0.811±0.006	0.005±0.005	0.065±0.005
9.8	-4.6±0.3	0.4±0.4	-0.52±0.01	-1.20±0.02	0.827±0.006	0.824±0.006	0.006±0.005	0.066±0.005
10.8	-4.6±0.3	0.5±0.4	-0.50±0.01	-1.21±0.02	0.838±0.006	0.835±0.006	0.007±0.005	0.067±0.005
11.8	-4.7±0.3	0.5±0.3	-0.49±0.01	-1.20±0.02	0.844±0.006	0.841±0.006	0.007±0.005	0.069±0.005
12.8	-4.8±0.3	0.5±0.3	-0.48±0.01	-1.19±0.02	0.848±0.006	0.845±0.006	0.007±0.005	0.070±0.005
13.8	-4.8±0.3	0.5±0.3	-0.47±0.01	-1.21±0.02	0.860±0.006	0.857±0.006	0.007±0.005	0.071±0.005
16.4	-4.9±0.3	0.6±0.3	-0.45±0.01	-1.20±0.02	0.868±0.006	0.865±0.006	0.009±0.005	0.075±0.005
18.9	-5.0±0.3	0.7±0.3	-0.42±0.01	-1.20±0.02	0.882±0.006	0.878±0.006	0.011±0.005	0.077±0.005
21.4	-5.3±0.3	0.7±0.3	-0.41±0.01	-1.21±0.02	0.896±0.006	0.892±0.006	0.011±0.005	0.082±0.005
24.0	-5.3±0.3	0.7±0.3	-0.37±0.01	-1.20±0.02	0.909±0.006	0.905±0.006	0.012±0.005	0.084±0.005
26.5	-5.4±0.3	0.7±0.3	-0.36±0.01	-1.22±0.02	0.925±0.006	0.921±0.006	0.012±0.005	0.087±0.005
29.1	-5.4±0.3	0.7±0.3	-0.33±0.01	-1.19±0.02	0.931±0.006	0.927±0.006	0.012±0.005	0.088±0.005
31.6	-5.5±0.3	0.8±0.3	-0.31±0.01	-1.21±0.02	0.945±0.006	0.940±0.006	0.013±0.005	0.090±0.005
34.1	-5.5±0.3	0.8±0.3	-0.29±0.01	-1.21±0.02	0.959±0.006	0.954±0.006	0.013±0.005	0.092±0.005
36.7	-5.6±0.3	0.9±0.3	-0.27±0.01	-1.20±0.02	0.966±0.006	0.961±0.006	0.015±0.004	0.094±0.005
39.2	-5.6±0.3	0.9±0.3	-0.25±0.01	-1.21±0.02	0.978±0.006	0.973±0.006	0.015±0.004	0.095±0.005
44.3	-5.6±0.3	0.9±0.3	-0.20±0.01	-1.19±0.02	0.997±0.006	0.992±0.006	0.016±0.004	0.096±0.006
49.4	-5.6±0.3	0.9±0.2	-0.17±0.01	-1.20±0.02	1.014±0.006	1.009±0.006	0.016±0.004	0.099±0.006
54.5	-5.6±0.3	0.8±0.2	-0.13±0.01	-1.20±0.02	1.032±0.006	1.027±0.006	0.015±0.004	0.101±0.006
59.5	-5.6±0.3	0.8±0.2	-0.11±0.01	-1.20±0.02	1.046±0.006	1.041±0.006	0.014±0.004	0.102±0.006
64.6	-5.6±0.3	0.7±0.2	-0.08±0.01	-1.20±0.02	1.060±0.006	1.054±0.006	0.013±0.004	0.104±0.006
69.7	-5.6±0.3	0.7±0.2	-0.05±0.01	-1.19±0.02	1.071±0.007	1.066±0.007	0.012±0.004	0.104±0.006
74.8	-5.5±0.3	0.6±0.2	-0.03±0.01	-1.20±0.02	1.082±0.007	1.077±0.007	0.011±0.004	0.104±0.006
79.9	-5.5±0.3	0.4±0.2	-0.01±0.01	-1.19±0.02	1.087±0.007	1.082±0.007	0.008±0.004	0.104±0.006
84.9	-5.5±0.3	0.4±0.2	0.00±0.01	-1.20±0.02	1.092±0.007	1.087±0.007	0.008±0.004	0.104±0.006
90.0	-5.4±0.3	0.4±0.2	0.00±0.01	-1.19±0.02	1.093±0.007	1.088±0.007	0.007±0.004	0.103±0.006
100.2	-5.3±0.3	0.2±0.2	0.01±0.01	-1.19±0.02	1.095±0.007	1.090±0.007	0.003±0.004	0.102±0.006
110.3	-5.3±0.3	0.1±0.2	0.01±0.01	-1.19±0.02	1.095±0.007	1.090±0.007	0.002±0.004	0.100±0.006
120.5	-5.2±0.3	-0.1±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.090±0.007	-0.002±0.004	0.100±0.006
130.7	-5.1±0.3	-0.2±0.2	0.01±0.01	-1.19±0.02	1.095±0.007	1.090±0.007	-0.004±0.004	0.098±0.006
140.8	-5.0±0.3	-0.4±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.090±0.007	-0.008±0.004	0.096±0.006

Table B.276 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-5.8±0.3	0.9±0.6	-0.74±0.01	-1.19±0.02	0.668±0.007	0.664±0.007	0.011±0.007	0.067±0.004
4.7	-5.6±0.3	0.4±0.5	-0.67±0.01	-1.18±0.02	0.712±0.007	0.708±0.007	0.005±0.006	0.069±0.004
5.7	-5.3±0.3	0.4±0.4	-0.62±0.01	-1.18±0.02	0.747±0.007	0.744±0.007	0.005±0.006	0.069±0.004
6.7	-5.1±0.3	0.3±0.4	-0.58±0.01	-1.19±0.02	0.781±0.007	0.778±0.007	0.005±0.006	0.070±0.004
7.7	-5.1±0.3	0.4±0.4	-0.55±0.01	-1.20±0.02	0.806±0.007	0.803±0.007	0.005±0.005	0.072±0.004
8.7	-5.0±0.3	0.4±0.4	-0.52±0.01	-1.19±0.02	0.821±0.007	0.818±0.006	0.005±0.005	0.071±0.005
9.8	-5.0±0.3	0.4±0.4	-0.51±0.01	-1.20±0.02	0.832±0.006	0.828±0.006	0.006±0.005	0.072±0.005
10.8	-5.0±0.3	0.4±0.4	-0.49±0.01	-1.19±0.02	0.836±0.006	0.833±0.006	0.007±0.005	0.073±0.005
11.8	-5.1±0.3	0.5±0.3	-0.48±0.01	-1.19±0.02	0.847±0.006	0.843±0.006	0.007±0.005	0.075±0.005
12.8	-5.1±0.3	0.5±0.3	-0.46±0.01	-1.19±0.02	0.850±0.006	0.847±0.006	0.007±0.005	0.076±0.005
13.8	-5.2±0.3	0.6±0.3	-0.46±0.01	-1.19±0.02	0.857±0.006	0.854±0.006	0.009±0.005	0.078±0.005
16.4	-5.4±0.3	0.7±0.3	-0.44±0.01	-1.20±0.02	0.875±0.006	0.872±0.006	0.010±0.005	0.082±0.005
18.9	-5.5±0.3	0.7±0.3	-0.41±0.01	-1.19±0.02	0.882±0.006	0.878±0.006	0.011±0.005	0.084±0.005
21.4	-5.6±0.3	0.7±0.3	-0.38±0.01	-1.19±0.02	0.897±0.006	0.893±0.006	0.011±0.005	0.088±0.005
24.0	-5.7±0.3	0.8±0.3	-0.37±0.01	-1.19±0.02	0.905±0.006	0.901±0.006	0.012±0.005	0.091±0.005
26.5	-5.8±0.3	0.7±0.3	-0.35±0.01	-1.19±0.02	0.920±0.006	0.915±0.006	0.012±0.005	0.093±0.005
29.1	-5.8±0.3	0.8±0.3	-0.32±0.01	-1.19±0.02	0.931±0.006	0.926±0.006	0.012±0.005	0.094±0.005
31.6	-5.9±0.3	0.8±0.3	-0.29±0.01	-1.19±0.02	0.945±0.006	0.939±0.006	0.013±0.005	0.098±0.005
34.1	-5.9±0.3	0.9±0.3	-0.28±0.01	-1.18±0.02	0.951±0.006	0.946±0.006	0.014±0.005	0.098±0.005
36.7	-5.9±0.3	0.9±0.3	-0.26±0.01	-1.19±0.02	0.966±0.006	0.960±0.006	0.015±0.005	0.100±0.005
39.2	-6.0±0.3	0.9±0.3	-0.25±0.01	-1.20±0.02	0.976±0.006	0.970±0.006	0.015±0.004	0.103±0.005
44.3	-6.1±0.3	0.9±0.3	-0.20±0.01	-1.18±0.02	0.990±0.006	0.985±0.006	0.016±0.004	0.105±0.005
49.4	-6.1±0.3	0.9±0.2	-0.17±0.01	-1.18±0.02	1.008±0.006	1.002±0.006	0.016±0.004	0.107±0.006
54.5	-6.1±0.3	0.9±0.2	-0.13±0.01	-1.18±0.02	1.021±0.006	1.015±0.006	0.015±0.004	0.109±0.006
59.5	-6.1±0.3	0.7±0.2	-0.10±0.01	-1.18±0.02	1.039±0.006	1.033±0.006	0.013±0.004	0.110±0.006
64.6	-6.1±0.3	0.7±0.2	-0.06±0.01	-1.18±0.02	1.057±0.006	1.051±0.006	0.012±0.004	0.112±0.006
69.7	-6.1±0.3	0.6±0.2	-0.04±0.01	-1.18±0.02	1.066±0.007	1.060±0.007	0.011±0.004	0.113±0.006
74.8	-6.0±0.3	0.5±0.2	-0.02±0.01	-1.17±0.02	1.074±0.007	1.068±0.007	0.009±0.004	0.112±0.006
79.9	-6.0±0.3	0.4±0.2	-0.01±0.01	-1.17±0.02	1.078±0.007	1.072±0.007	0.008±0.004	0.112±0.006
84.9	-6.0±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.083±0.007	1.077±0.007	0.007±0.004	0.113±0.006
90.0	-5.9±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.085±0.007	1.079±0.007	0.007±0.004	0.112±0.006
100.2	-5.8±0.3	0.1±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.080±0.007	0.003±0.004	0.109±0.006
110.3	-5.7±0.3	0.0±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.080±0.007	-0.001±0.004	0.108±0.006
120.5	-5.7±0.3	-0.2±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.080±0.007	-0.004±0.004	0.107±0.006
130.7	-5.6±0.3	-0.3±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.080±0.007	-0.005±0.004	0.105±0.006
140.8	-5.4±0.3	-0.5±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.082±0.007	-0.009±0.004	0.103±0.006

Table B.277 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-38 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-6.2±0.3	0.9±0.6	-0.71±0.01	-1.16±0.02	0.671±0.007	0.667±0.007	0.011±0.006	0.073±0.004
4.7	-5.9±0.3	0.4±0.5	-0.66±0.01	-1.17±0.02	0.718±0.007	0.714±0.007	0.005±0.006	0.074±0.004
5.7	-5.7±0.3	0.3±0.4	-0.61±0.01	-1.17±0.02	0.750±0.007	0.747±0.007	0.004±0.006	0.074±0.004
6.7	-5.5±0.3	0.4±0.4	-0.57±0.01	-1.18±0.02	0.781±0.007	0.778±0.007	0.005±0.006	0.075±0.004
7.7	-5.5±0.3	0.3±0.4	-0.53±0.01	-1.19±0.02	0.810±0.007	0.807±0.007	0.005±0.005	0.077±0.004
8.7	-5.4±0.3	0.4±0.4	-0.51±0.01	-1.20±0.02	0.827±0.006	0.824±0.006	0.006±0.005	0.078±0.005
9.8	-5.5±0.3	0.4±0.4	-0.49±0.01	-1.18±0.02	0.835±0.006	0.831±0.006	0.006±0.005	0.079±0.005
10.8	-5.4±0.3	0.5±0.4	-0.47±0.01	-1.17±0.02	0.837±0.006	0.833±0.006	0.007±0.005	0.079±0.005
11.8	-5.5±0.3	0.5±0.3	-0.46±0.01	-1.18±0.02	0.849±0.006	0.845±0.006	0.007±0.005	0.081±0.005
12.8	-5.6±0.3	0.5±0.3	-0.45±0.01	-1.18±0.02	0.855±0.006	0.851±0.006	0.008±0.005	0.083±0.005
13.8	-5.6±0.3	0.5±0.3	-0.45±0.01	-1.19±0.02	0.865±0.006	0.860±0.006	0.008±0.005	0.084±0.005
16.4	-5.8±0.3	0.7±0.3	-0.43±0.01	-1.19±0.02	0.876±0.006	0.871±0.006	0.011±0.005	0.088±0.005
18.9	-6.0±0.3	0.7±0.3	-0.40±0.01	-1.18±0.02	0.885±0.006	0.880±0.006	0.011±0.005	0.092±0.005
21.4	-6.1±0.3	0.7±0.3	-0.38±0.01	-1.19±0.02	0.898±0.006	0.892±0.006	0.011±0.005	0.095±0.005
24.0	-6.1±0.3	0.7±0.3	-0.36±0.01	-1.18±0.02	0.910±0.006	0.905±0.006	0.012±0.005	0.097±0.005
26.5	-6.2±0.3	0.7±0.3	-0.33±0.01	-1.18±0.02	0.920±0.006	0.914±0.006	0.012±0.005	0.099±0.005
29.1	-6.3±0.3	0.8±0.3	-0.32±0.01	-1.19±0.02	0.932±0.006	0.926±0.006	0.013±0.005	0.102±0.005
31.6	-6.3±0.3	0.8±0.3	-0.29±0.01	-1.18±0.02	0.943±0.006	0.937±0.006	0.013±0.005	0.103±0.005
34.1	-6.4±0.3	0.8±0.3	-0.27±0.01	-1.18±0.02	0.954±0.006	0.948±0.006	0.013±0.005	0.106±0.005
36.7	-6.4±0.3	0.9±0.3	-0.25±0.01	-1.18±0.02	0.963±0.006	0.956±0.006	0.014±0.005	0.108±0.005
39.2	-6.5±0.3	0.9±0.3	-0.23±0.01	-1.18±0.02	0.970±0.006	0.964±0.006	0.015±0.004	0.109±0.005
44.3	-6.5±0.3	0.9±0.3	-0.19±0.01	-1.17±0.02	0.988±0.006	0.982±0.006	0.015±0.004	0.113±0.005
49.4	-6.6±0.3	0.9±0.2	-0.15±0.01	-1.17±0.02	1.010±0.006	1.004±0.006	0.015±0.004	0.116±0.006
54.5	-6.6±0.3	0.8±0.2	-0.12±0.01	-1.16±0.02	1.018±0.006	1.012±0.006	0.015±0.004	0.117±0.006
59.5	-6.6±0.3	0.7±0.2	-0.09±0.01	-1.18±0.02	1.041±0.006	1.034±0.006	0.012±0.004	0.121±0.006
64.6	-6.6±0.3	0.6±0.2	-0.07±0.01	-1.17±0.02	1.051±0.006	1.043±0.006	0.011±0.004	0.121±0.006
69.7	-6.6±0.3	0.5±0.2	-0.05±0.01	-1.18±0.02	1.062±0.006	1.055±0.006	0.010±0.004	0.122±0.006
74.8	-6.5±0.3	0.4±0.2	-0.02±0.01	-1.17±0.02	1.072±0.007	1.065±0.007	0.008±0.004	0.122±0.006
79.9	-6.5±0.3	0.4±0.2	-0.01±0.01	-1.17±0.02	1.077±0.007	1.070±0.007	0.007±0.004	0.123±0.006
84.9	-6.5±0.3	0.3±0.2	0.00±0.01	-1.17±0.02	1.081±0.007	1.074±0.007	0.005±0.004	0.122±0.006
90.0	-6.4±0.3	0.2±0.2	0.00±0.01	-1.17±0.02	1.083±0.007	1.076±0.007	0.003±0.004	0.121±0.006
100.2	-6.3±0.3	0.0±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.077±0.007	0.000±0.004	0.119±0.006
110.3	-6.1±0.3	-0.2±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.078±0.007	-0.003±0.004	0.116±0.006
120.5	-6.1±0.3	-0.2±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.077±0.007	-0.004±0.004	0.116±0.006
130.7	-6.0±0.3	-0.4±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.078±0.007	-0.008±0.004	0.114±0.006
140.8	-6.0±0.3	-0.6±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.077±0.007	-0.011±0.004	0.112±0.006

Table B.278 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-32 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-6.8±0.3	1.0±0.6	-0.71±0.01	-1.16±0.02	0.676±0.007	0.671±0.007	0.012±0.006	0.080±0.004
4.7	-6.5±0.3	0.4±0.5	-0.66±0.01	-1.18±0.02	0.720±0.007	0.716±0.007	0.005±0.006	0.081±0.004
5.7	-6.3±0.3	0.3±0.4	-0.59±0.01	-1.17±0.02	0.764±0.007	0.759±0.007	0.004±0.006	0.084±0.004
6.7	-6.2±0.3	0.3±0.4	-0.54±0.01	-1.18±0.02	0.795±0.007	0.791±0.007	0.005±0.005	0.086±0.004
7.7	-6.0±0.3	0.3±0.4	-0.51±0.01	-1.19±0.02	0.823±0.007	0.819±0.006	0.005±0.005	0.087±0.005
8.7	-6.0±0.3	0.4±0.4	-0.48±0.01	-1.17±0.02	0.826±0.007	0.822±0.006	0.005±0.005	0.087±0.005
9.8	-6.0±0.3	0.4±0.4	-0.48±0.01	-1.19±0.02	0.840±0.006	0.835±0.006	0.006±0.005	0.088±0.005
10.8	-6.0±0.3	0.5±0.3	-0.46±0.01	-1.18±0.02	0.848±0.006	0.843±0.006	0.007±0.005	0.089±0.005
11.8	-6.1±0.3	0.5±0.3	-0.44±0.01	-1.18±0.02	0.857±0.006	0.853±0.006	0.007±0.005	0.091±0.005
12.8	-6.2±0.3	0.5±0.3	-0.43±0.01	-1.17±0.02	0.858±0.006	0.853±0.006	0.007±0.005	0.092±0.005
13.8	-6.2±0.3	0.5±0.3	-0.43±0.01	-1.18±0.02	0.868±0.006	0.863±0.006	0.008±0.005	0.093±0.005
16.4	-6.3±0.3	0.7±0.3	-0.41±0.01	-1.18±0.02	0.880±0.006	0.875±0.006	0.010±0.005	0.097±0.005
18.9	-6.4±0.3	0.7±0.3	-0.37±0.01	-1.17±0.02	0.891±0.006	0.886±0.006	0.011±0.005	0.099±0.005
21.4	-6.5±0.3	0.7±0.3	-0.36±0.01	-1.18±0.02	0.907±0.006	0.901±0.006	0.011±0.005	0.103±0.005
24.0	-6.6±0.3	0.7±0.3	-0.33±0.01	-1.17±0.02	0.917±0.006	0.910±0.006	0.011±0.005	0.106±0.005
26.5	-6.6±0.3	0.8±0.3	-0.31±0.01	-1.16±0.02	0.922±0.006	0.916±0.006	0.012±0.005	0.106±0.005
29.1	-6.7±0.3	0.7±0.3	-0.30±0.01	-1.19±0.02	0.941±0.006	0.934±0.006	0.012±0.005	0.110±0.005
31.6	-6.8±0.3	0.7±0.3	-0.29±0.01	-1.19±0.02	0.948±0.006	0.942±0.006	0.012±0.005	0.112±0.005
34.1	-6.8±0.3	0.7±0.3	-0.26±0.01	-1.17±0.02	0.957±0.006	0.951±0.006	0.012±0.005	0.114±0.005
36.7	-6.9±0.3	0.8±0.3	-0.24±0.01	-1.17±0.02	0.965±0.006	0.958±0.006	0.013±0.005	0.116±0.005
39.2	-6.9±0.3	0.7±0.3	-0.23±0.01	-1.19±0.02	0.978±0.006	0.971±0.006	0.012±0.004	0.118±0.005
44.3	-7.1±0.3	0.8±0.3	-0.20±0.01	-1.18±0.02	0.989±0.006	0.981±0.006	0.013±0.004	0.121±0.005
49.4	-7.1±0.3	0.7±0.2	-0.15±0.01	-1.17±0.02	1.007±0.006	0.999±0.006	0.012±0.004	0.124±0.006
54.5	-7.1±0.3	0.7±0.2	-0.13±0.01	-1.16±0.02	1.018±0.006	1.010±0.006	0.012±0.004	0.126±0.006
59.5	-7.2±0.3	0.6±0.2	-0.10±0.01	-1.17±0.02	1.037±0.006	1.028±0.006	0.011±0.004	0.130±0.006
64.6	-7.2±0.3	0.5±0.2	-0.07±0.01	-1.17±0.02	1.052±0.006	1.044±0.006	0.009±0.004	0.131±0.006
69.7	-7.2±0.3	0.4±0.2	-0.04±0.01	-1.17±0.02	1.060±0.007	1.051±0.006	0.008±0.004	0.132±0.006
74.8	-7.1±0.3	0.4±0.2	-0.02±0.01	-1.16±0.02	1.068±0.007	1.059±0.007	0.007±0.004	0.133±0.006
79.9	-7.1±0.3	0.3±0.2	-0.01±0.01	-1.16±0.02	1.075±0.007	1.067±0.007	0.005±0.004	0.132±0.006
84.9	-7.0±0.3	0.2±0.2	0.00±0.01	-1.16±0.02	1.077±0.007	1.069±0.007	0.003±0.004	0.131±0.006
90.0	-6.9±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.072±0.007	0.003±0.004	0.130±0.006
100.2	-6.8±0.3	-0.1±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.074±0.007	-0.002±0.004	0.128±0.006
110.3	-6.8±0.3	-0.3±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.073±0.007	-0.005±0.004	0.127±0.006
120.5	-6.7±0.3	-0.4±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.073±0.007	-0.007±0.004	0.125±0.006
130.7	-6.6±0.3	-0.5±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.072±0.007	-0.009±0.004	0.124±0.006
140.8	-6.5±0.3	-0.6±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.073±0.007	-0.012±0.004	0.123±0.006

Table B.279 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-25 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-7.8±0.3	1.0±0.6	-0.75±0.01	-1.17±0.02	0.647±0.007	0.641±0.007	0.011±0.007	0.088±0.004
4.7	-7.7±0.3	0.5±0.5	-0.68±0.01	-1.15±0.02	0.691±0.007	0.684±0.007	0.006±0.006	0.092±0.004
5.7	-7.3±0.3	0.3±0.5	-0.63±0.01	-1.16±0.02	0.733±0.007	0.727±0.007	0.004±0.006	0.093±0.004
6.7	-7.3±0.3	0.3±0.4	-0.58±0.01	-1.17±0.02	0.766±0.007	0.760±0.007	0.005±0.006	0.097±0.004
7.7	-7.1±0.3	0.3±0.4	-0.54±0.01	-1.16±0.02	0.789±0.007	0.783±0.007	0.005±0.006	0.098±0.004
8.7	-7.1±0.3	0.4±0.4	-0.51±0.01	-1.18±0.02	0.814±0.007	0.808±0.006	0.005±0.005	0.100±0.005
9.8	-7.0±0.3	0.3±0.4	-0.48±0.01	-1.17±0.02	0.832±0.006	0.826±0.006	0.005±0.005	0.101±0.005
10.8	-6.9±0.3	0.4±0.4	-0.47±0.01	-1.17±0.02	0.840±0.006	0.833±0.006	0.005±0.005	0.101±0.005
11.8	-6.9±0.3	0.4±0.3	-0.44±0.01	-1.16±0.02	0.853±0.006	0.846±0.006	0.006±0.005	0.102±0.005
12.8	-6.9±0.3	0.4±0.3	-0.44±0.01	-1.19±0.02	0.862±0.006	0.856±0.006	0.006±0.005	0.104±0.005
13.8	-6.9±0.3	0.4±0.3	-0.42±0.01	-1.17±0.02	0.863±0.006	0.857±0.006	0.006±0.005	0.104±0.005
16.4	-6.9±0.3	0.5±0.3	-0.39±0.01	-1.17±0.02	0.882±0.006	0.875±0.006	0.007±0.005	0.106±0.005
18.9	-7.0±0.3	0.5±0.3	-0.37±0.01	-1.16±0.02	0.892±0.006	0.885±0.006	0.008±0.005	0.109±0.005
21.4	-7.1±0.3	0.5±0.3	-0.35±0.01	-1.17±0.02	0.908±0.006	0.901±0.006	0.008±0.005	0.112±0.005
24.0	-7.2±0.3	0.6±0.3	-0.33±0.01	-1.18±0.02	0.923±0.006	0.916±0.006	0.010±0.005	0.116±0.005
26.5	-7.3±0.3	0.5±0.3	-0.31±0.01	-1.18±0.02	0.933±0.006	0.925±0.006	0.009±0.005	0.118±0.005
29.1	-7.4±0.3	0.6±0.3	-0.29±0.01	-1.18±0.02	0.945±0.006	0.937±0.006	0.010±0.005	0.121±0.005
31.6	-7.5±0.3	0.6±0.3	-0.26±0.01	-1.17±0.02	0.954±0.006	0.946±0.006	0.010±0.005	0.125±0.005
34.1	-7.5±0.3	0.6±0.3	-0.26±0.01	-1.18±0.02	0.961±0.006	0.953±0.006	0.009±0.005	0.126±0.005
36.7	-7.6±0.3	0.7±0.3	-0.23±0.01	-1.17±0.02	0.967±0.006	0.959±0.006	0.011±0.004	0.128±0.005
39.2	-7.6±0.3	0.5±0.3	-0.22±0.01	-1.17±0.02	0.975±0.006	0.967±0.006	0.008±0.004	0.129±0.005
44.3	-7.7±0.3	0.5±0.3	-0.17±0.01	-1.16±0.02	0.994±0.006	0.985±0.006	0.008±0.004	0.133±0.006
49.4	-7.8±0.3	0.4±0.2	-0.16±0.01	-1.17±0.02	1.008±0.006	0.999±0.006	0.008±0.004	0.137±0.006
54.5	-7.9±0.3	0.4±0.2	-0.13±0.01	-1.17±0.02	1.023±0.006	1.013±0.006	0.007±0.004	0.140±0.006
59.5	-7.9±0.3	0.4±0.2	-0.09±0.01	-1.17±0.02	1.037±0.006	1.027±0.006	0.007±0.004	0.142±0.006
64.6	-7.9±0.3	0.4±0.2	-0.06±0.01	-1.17±0.02	1.052±0.006	1.042±0.006	0.007±0.004	0.145±0.006
69.7	-7.9±0.3	0.3±0.2	-0.04±0.01	-1.17±0.02	1.059±0.007	1.049±0.006	0.005±0.004	0.145±0.006
74.8	-7.8±0.3	0.2±0.2	-0.02±0.01	-1.16±0.02	1.067±0.007	1.057±0.007	0.003±0.004	0.145±0.006
79.9	-7.8±0.3	0.1±0.2	-0.01±0.01	-1.15±0.02	1.071±0.007	1.061±0.007	0.003±0.004	0.145±0.006
84.9	-7.7±0.3	0.0±0.2	0.00±0.01	-1.16±0.02	1.075±0.007	1.065±0.007	0.001±0.004	0.145±0.006
90.0	-7.7±0.3	0.0±0.2	0.00±0.01	-1.16±0.02	1.077±0.007	1.068±0.007	0.000±0.004	0.144±0.006
100.2	-7.6±0.3	-0.1±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.068±0.007	-0.001±0.004	0.142±0.006
110.3	-7.5±0.3	-0.3±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.068±0.007	-0.005±0.004	0.141±0.006
120.5	-7.4±0.3	-0.3±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.068±0.007	-0.006±0.004	0.139±0.006
130.7	-7.3±0.3	-0.5±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.069±0.007	-0.009±0.004	0.137±0.006
140.8	-7.2±0.3	-0.8±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.069±0.007	-0.015±0.004	0.135±0.006

Table B.280 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(251 mm,-19 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-9.0±0.3	0.5±0.7	-0.82±0.01	-1.18±0.02	0.597±0.008	0.590±0.008	0.005±0.007	0.094±0.003
4.7	-8.9±0.3	0.3±0.6	-0.76±0.01	-1.18±0.02	0.642±0.007	0.634±0.007	0.004±0.007	0.099±0.004
5.7	-9.0±0.3	0.0±0.5	-0.70±0.01	-1.18±0.02	0.689±0.007	0.680±0.007	0.000±0.006	0.108±0.004
6.7	-8.8±0.3	-0.1±0.5	-0.66±0.01	-1.18±0.02	0.719±0.007	0.710±0.007	-0.001±0.006	0.110±0.004
7.7	-8.7±0.3	-0.1±0.5	-0.63±0.01	-1.18±0.02	0.747±0.007	0.738±0.007	-0.001±0.006	0.113±0.004
8.7	-8.5±0.3	0.0±0.4	-0.59±0.01	-1.17±0.02	0.760±0.007	0.751±0.007	-0.001±0.006	0.113±0.004
9.8	-8.4±0.3	0.0±0.4	-0.58±0.01	-1.20±0.02	0.788±0.007	0.780±0.007	0.000±0.006	0.115±0.004
10.8	-8.2±0.3	0.0±0.4	-0.56±0.01	-1.18±0.02	0.787±0.007	0.779±0.007	0.000±0.006	0.113±0.004
11.8	-8.2±0.3	0.0±0.4	-0.53±0.01	-1.16±0.02	0.794±0.007	0.786±0.007	0.000±0.005	0.113±0.004
12.8	-8.2±0.3	0.1±0.4	-0.52±0.01	-1.18±0.02	0.814±0.007	0.805±0.006	0.001±0.005	0.116±0.005
13.8	-8.0±0.3	0.1±0.4	-0.49±0.01	-1.18±0.02	0.831±0.006	0.823±0.006	0.001±0.005	0.116±0.005
16.4	-8.1±0.3	0.2±0.3	-0.46±0.01	-1.19±0.02	0.856±0.006	0.848±0.006	0.003±0.005	0.121±0.005
18.9	-8.1±0.3	0.3±0.3	-0.41±0.01	-1.18±0.02	0.880±0.006	0.871±0.006	0.004±0.005	0.124±0.005
21.4	-8.1±0.3	0.3±0.3	-0.39±0.01	-1.18±0.02	0.894±0.006	0.885±0.006	0.004±0.005	0.126±0.005
24.0	-8.2±0.3	0.4±0.3	-0.35±0.01	-1.17±0.02	0.905±0.006	0.896±0.006	0.005±0.005	0.129±0.005
26.5	-8.3±0.3	0.3±0.3	-0.34±0.01	-1.20±0.02	0.930±0.006	0.921±0.006	0.005±0.005	0.135±0.005
29.1	-8.3±0.3	0.3±0.3	-0.31±0.01	-1.19±0.02	0.942±0.006	0.932±0.006	0.004±0.005	0.136±0.005
31.6	-8.4±0.3	0.1±0.3	-0.28±0.01	-1.17±0.02	0.947±0.006	0.937±0.006	0.002±0.005	0.139±0.005
34.1	-8.4±0.3	0.1±0.3	-0.27±0.01	-1.19±0.02	0.962±0.006	0.951±0.006	0.002±0.005	0.141±0.005
36.7	-8.5±0.3	0.1±0.3	-0.24±0.01	-1.18±0.02	0.970±0.006	0.959±0.006	0.002±0.004	0.144±0.005
39.2	-8.5±0.3	0.1±0.3	-0.22±0.01	-1.18±0.02	0.980±0.006	0.969±0.006	0.002±0.004	0.145±0.005
44.3	-8.6±0.3	-0.1±0.3	-0.19±0.01	-1.19±0.02	1.001±0.006	0.990±0.006	-0.001±0.004	0.149±0.006
49.4	-8.6±0.3	-0.1±0.2	-0.15±0.01	-1.17±0.02	1.011±0.006	1.000±0.006	-0.002±0.004	0.151±0.006
54.5	-8.6±0.3	-0.1±0.2	-0.13±0.01	-1.17±0.02	1.019±0.006	1.008±0.006	-0.002±0.004	0.153±0.006
59.5	-8.7±0.3	-0.2±0.2	-0.10±0.01	-1.18±0.02	1.036±0.006	1.024±0.006	-0.003±0.004	0.157±0.006
64.6	-8.7±0.3	-0.2±0.2	-0.07±0.01	-1.18±0.02	1.052±0.006	1.040±0.006	-0.004±0.004	0.159±0.006
69.7	-8.7±0.3	-0.2±0.2	-0.04±0.01	-1.17±0.02	1.062±0.007	1.050±0.006	-0.004±0.004	0.161±0.006
74.8	-8.7±0.3	-0.2±0.2	-0.02±0.01	-1.17±0.02	1.070±0.007	1.058±0.007	-0.003±0.004	0.162±0.006
79.9	-8.7±0.3	-0.2±0.2	-0.02±0.01	-1.17±0.02	1.073±0.007	1.061±0.007	-0.003±0.004	0.162±0.006
84.9	-8.6±0.3	-0.2±0.2	-0.01±0.01	-1.17±0.02	1.077±0.007	1.065±0.007	-0.003±0.004	0.162±0.006
90.0	-8.6±0.3	-0.2±0.2	-0.01±0.01	-1.17±0.02	1.079±0.007	1.067±0.007	-0.004±0.004	0.161±0.006
100.2	-8.5±0.3	-0.2±0.2	-0.01±0.01	-1.17±0.02	1.079±0.007	1.067±0.007	-0.004±0.004	0.160±0.006
110.3	-8.5±0.3	-0.3±0.2	0.00±0.01	-1.17±0.02	1.078±0.007	1.066±0.007	-0.005±0.004	0.159±0.006
120.5	-8.4±0.3	-0.3±0.2	0.00±0.01	-1.17±0.02	1.079±0.007	1.067±0.007	-0.006±0.004	0.158±0.006
130.7	-8.4±0.3	-0.5±0.2	0.00±0.01	-1.17±0.02	1.078±0.007	1.066±0.007	-0.009±0.004	0.157±0.006
140.8	-8.4±0.3	-0.7±0.2	-0.01±0.01	-1.17±0.02	1.078±0.007	1.066±0.007	-0.013±0.004	0.157±0.006

Table B.281 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.8±0.3	1.2±0.5	-0.75±0.01	-1.23±0.02	0.696±0.007	0.695±0.007	0.015±0.006	0.034±0.004
4.7	-2.7±0.3	0.5±0.5	-0.70±0.01	-1.22±0.02	0.722±0.007	0.721±0.007	0.006±0.006	0.034±0.004
5.7	-2.5±0.3	0.3±0.5	-0.66±0.01	-1.22±0.02	0.747±0.007	0.747±0.007	0.004±0.006	0.032±0.004
6.7	-2.4±0.3	0.2±0.4	-0.64±0.01	-1.22±0.02	0.762±0.007	0.762±0.007	0.002±0.006	0.031±0.004
7.7	-2.2±0.3	0.0±0.4	-0.61±0.01	-1.22±0.02	0.781±0.007	0.780±0.007	0.000±0.006	0.030±0.004
8.7	-2.2±0.3	-0.1±0.4	-0.59±0.01	-1.23±0.02	0.798±0.007	0.798±0.007	-0.001±0.006	0.030±0.004
9.8	-2.0±0.3	0.0±0.4	-0.57±0.01	-1.24±0.02	0.816±0.007	0.815±0.007	-0.001±0.005	0.029±0.005
10.8	-2.0±0.3	0.0±0.4	-0.55±0.01	-1.23±0.02	0.823±0.007	0.823±0.007	-0.001±0.005	0.029±0.005
11.8	-2.0±0.3	0.0±0.4	-0.54±0.01	-1.23±0.02	0.833±0.007	0.832±0.007	0.000±0.005	0.028±0.005
12.8	-1.8±0.3	-0.1±0.4	-0.52±0.01	-1.22±0.02	0.840±0.007	0.840±0.007	-0.001±0.005	0.027±0.005
13.8	-1.8±0.3	0.0±0.4	-0.51±0.01	-1.23±0.02	0.850±0.007	0.850±0.007	0.000±0.005	0.027±0.005
16.4	-1.7±0.3	0.0±0.3	-0.48±0.01	-1.23±0.02	0.866±0.007	0.866±0.007	0.000±0.005	0.026±0.005
18.9	-1.6±0.3	0.0±0.3	-0.45±0.01	-1.23±0.02	0.885±0.007	0.884±0.007	0.000±0.005	0.025±0.005
21.4	-1.6±0.3	0.0±0.3	-0.43±0.01	-1.24±0.02	0.901±0.007	0.900±0.007	0.001±0.005	0.025±0.005
24.0	-1.5±0.3	0.0±0.3	-0.39±0.01	-1.23±0.02	0.917±0.006	0.917±0.006	0.001±0.005	0.024±0.005
26.5	-1.5±0.3	0.1±0.3	-0.37±0.01	-1.23±0.02	0.929±0.006	0.929±0.006	0.001±0.005	0.024±0.005
29.1	-1.5±0.3	0.1±0.3	-0.34±0.01	-1.22±0.02	0.939±0.006	0.939±0.006	0.001±0.005	0.025±0.005
31.6	-1.4±0.3	0.1±0.3	-0.32±0.01	-1.23±0.02	0.954±0.006	0.954±0.006	0.002±0.005	0.024±0.005
34.1	-1.4±0.3	0.1±0.3	-0.30±0.01	-1.23±0.02	0.966±0.006	0.966±0.006	0.002±0.005	0.024±0.005
36.7	-1.4±0.3	0.2±0.3	-0.27±0.01	-1.23±0.02	0.977±0.007	0.977±0.007	0.003±0.005	0.024±0.005
39.2	-1.4±0.3	0.1±0.3	-0.25±0.01	-1.23±0.02	0.987±0.007	0.987±0.007	0.003±0.004	0.024±0.005
44.3	-1.4±0.3	0.2±0.2	-0.21±0.01	-1.22±0.02	1.008±0.007	1.007±0.007	0.003±0.004	0.024±0.006
49.4	-1.4±0.3	0.3±0.2	-0.17±0.01	-1.23±0.02	1.029±0.007	1.028±0.007	0.006±0.004	0.024±0.006
54.5	-1.3±0.3	0.4±0.2	-0.13±0.01	-1.23±0.02	1.047±0.007	1.047±0.007	0.007±0.004	0.023±0.006
59.5	-1.2±0.3	0.3±0.2	-0.09±0.01	-1.23±0.02	1.064±0.007	1.064±0.007	0.006±0.004	0.023±0.006
64.6	-1.2±0.3	0.4±0.2	-0.07±0.01	-1.22±0.02	1.074±0.007	1.074±0.007	0.007±0.004	0.023±0.006
69.7	-1.2±0.3	0.4±0.2	-0.04±0.01	-1.23±0.02	1.089±0.007	1.089±0.007	0.007±0.004	0.022±0.006
74.8	-1.1±0.3	0.4±0.2	-0.02±0.01	-1.22±0.02	1.096±0.007	1.095±0.007	0.008±0.004	0.022±0.006
79.9	-1.1±0.3	0.4±0.2	-0.01±0.01	-1.22±0.02	1.103±0.007	1.103±0.007	0.008±0.004	0.022±0.006
84.9	-1.1±0.3	0.4±0.2	0.00±0.01	-1.22±0.02	1.107±0.007	1.107±0.007	0.008±0.004	0.020±0.006
90.0	-1.0±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.109±0.007	1.109±0.007	0.008±0.004	0.019±0.006
100.2	-1.0±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.109±0.007	1.109±0.007	0.008±0.004	0.020±0.006
110.3	-0.9±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.110±0.007	1.110±0.007	0.008±0.004	0.018±0.006
120.5	-0.9±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.110±0.007	1.110±0.007	0.008±0.004	0.018±0.006
130.7	-0.9±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.110±0.007	1.110±0.007	0.007±0.004	0.017±0.006
140.8	-0.9±0.3	0.4±0.2	0.01±0.01	-1.22±0.02	1.110±0.007	1.110±0.007	0.007±0.004	0.018±0.006

Table B.282 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.6±0.3	1.2±0.6	-0.75±0.01	-1.21±0.02	0.678±0.007	0.676±0.007	0.014±0.007	0.042±0.004
4.7	-3.3±0.3	0.5±0.5	-0.71±0.01	-1.21±0.02	0.707±0.007	0.706±0.007	0.006±0.006	0.040±0.004
5.7	-3.1±0.3	0.3±0.5	-0.69±0.01	-1.21±0.02	0.724±0.007	0.723±0.007	0.004±0.006	0.039±0.004
6.7	-2.9±0.3	0.3±0.5	-0.65±0.01	-1.21±0.02	0.751±0.007	0.750±0.007	0.004±0.006	0.038±0.004
7.7	-2.8±0.3	0.2±0.4	-0.63±0.01	-1.21±0.02	0.763±0.007	0.762±0.007	0.003±0.006	0.038±0.004
8.7	-2.8±0.3	0.0±0.4	-0.62±0.01	-1.22±0.02	0.779±0.007	0.778±0.007	0.000±0.006	0.037±0.004
9.8	-2.6±0.3	0.1±0.4	-0.60±0.01	-1.23±0.02	0.792±0.007	0.791±0.007	0.001±0.006	0.036±0.004
10.8	-2.6±0.3	0.0±0.4	-0.58±0.01	-1.23±0.02	0.805±0.007	0.804±0.007	0.000±0.005	0.036±0.004
11.8	-2.4±0.3	0.0±0.4	-0.55±0.01	-1.21±0.02	0.812±0.007	0.811±0.007	0.000±0.005	0.034±0.004
12.8	-2.4±0.3	0.0±0.4	-0.54±0.01	-1.21±0.02	0.819±0.007	0.819±0.007	0.000±0.005	0.034±0.005
13.8	-2.4±0.3	0.0±0.4	-0.53±0.01	-1.23±0.02	0.836±0.007	0.835±0.007	0.000±0.005	0.034±0.005
16.4	-2.3±0.3	0.1±0.3	-0.51±0.01	-1.24±0.02	0.854±0.007	0.853±0.007	0.002±0.005	0.035±0.005
18.9	-2.3±0.3	0.2±0.3	-0.46±0.01	-1.20±0.02	0.860±0.007	0.859±0.007	0.003±0.005	0.034±0.005
21.4	-2.3±0.3	0.1±0.3	-0.44±0.01	-1.22±0.02	0.885±0.007	0.885±0.007	0.002±0.005	0.035±0.005
24.0	-2.3±0.3	0.2±0.3	-0.41±0.01	-1.22±0.02	0.899±0.006	0.899±0.006	0.003±0.005	0.035±0.005
26.5	-2.2±0.3	0.3±0.3	-0.39±0.01	-1.24±0.02	0.917±0.006	0.917±0.006	0.004±0.005	0.036±0.005
29.1	-2.2±0.3	0.2±0.3	-0.36±0.01	-1.22±0.02	0.930±0.006	0.929±0.006	0.004±0.005	0.036±0.005
31.6	-2.2±0.3	0.3±0.3	-0.33±0.01	-1.21±0.02	0.936±0.006	0.936±0.006	0.004±0.005	0.036±0.005
34.1	-2.2±0.3	0.2±0.3	-0.31±0.01	-1.21±0.02	0.949±0.006	0.949±0.006	0.004±0.005	0.037±0.005
36.7	-2.2±0.3	0.3±0.3	-0.29±0.01	-1.21±0.02	0.961±0.006	0.960±0.006	0.005±0.005	0.037±0.005
39.2	-2.1±0.3	0.3±0.3	-0.27±0.01	-1.22±0.02	0.974±0.006	0.973±0.006	0.004±0.005	0.036±0.005
44.3	-2.1±0.3	0.3±0.3	-0.22±0.01	-1.21±0.02	0.995±0.007	0.994±0.007	0.005±0.004	0.037±0.005
49.4	-2.1±0.3	0.4±0.2	-0.18±0.01	-1.21±0.02	1.017±0.007	1.017±0.007	0.006±0.004	0.037±0.006
54.5	-2.1±0.3	0.4±0.2	-0.14±0.01	-1.21±0.02	1.034±0.007	1.033±0.007	0.007±0.004	0.038±0.006
59.5	-2.0±0.3	0.4±0.2	-0.11±0.01	-1.21±0.02	1.050±0.007	1.049±0.007	0.007±0.004	0.037±0.006
64.6	-2.0±0.3	0.4±0.2	-0.07±0.01	-1.21±0.02	1.066±0.007	1.066±0.007	0.007±0.004	0.037±0.006
69.7	-1.9±0.3	0.4±0.2	-0.04±0.01	-1.21±0.02	1.080±0.007	1.079±0.007	0.007±0.004	0.036±0.006
74.8	-1.9±0.3	0.4±0.2	-0.02±0.01	-1.21±0.02	1.091±0.007	1.091±0.007	0.007±0.004	0.037±0.006
79.9	-1.9±0.3	0.4±0.2	0.00±0.01	-1.21±0.02	1.098±0.007	1.097±0.007	0.007±0.004	0.036±0.006
84.9	-1.9±0.3	0.4±0.2	0.00±0.01	-1.21±0.02	1.101±0.007	1.100±0.007	0.008±0.004	0.036±0.006
90.0	-1.9±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.103±0.007	1.102±0.007	0.008±0.004	0.036±0.006
100.2	-1.8±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.104±0.007	1.104±0.007	0.008±0.004	0.035±0.006
110.3	-1.8±0.3	0.4±0.2	0.01±0.01	-1.21±0.02	1.104±0.007	1.104±0.007	0.007±0.004	0.034±0.006
120.5	-1.7±0.3	0.2±0.2	0.01±0.01	-1.21±0.02	1.105±0.007	1.105±0.007	0.005±0.004	0.033±0.006
130.7	-1.6±0.3	0.2±0.2	0.01±0.01	-1.21±0.02	1.104±0.007	1.104±0.007	0.004±0.004	0.032±0.006
140.8	-1.6±0.3	0.2±0.2	0.01±0.01	-1.21±0.02	1.105±0.007	1.105±0.007	0.003±0.004	0.032±0.006

Table B.283 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.8±0.3	1.4±0.6	-0.75±0.01	-1.21±0.02	0.675±0.007	0.674±0.007	0.016±0.007	0.045±0.004
4.7	-3.7±0.3	0.4±0.5	-0.71±0.01	-1.21±0.02	0.706±0.007	0.704±0.007	0.005±0.006	0.045±0.004
5.7	-3.5±0.3	0.3±0.5	-0.68±0.01	-1.21±0.02	0.731±0.007	0.730±0.007	0.004±0.006	0.044±0.004
6.7	-3.3±0.3	0.3±0.4	-0.65±0.01	-1.22±0.02	0.755±0.007	0.754±0.007	0.004±0.006	0.043±0.004
7.7	-3.2±0.3	0.1±0.4	-0.63±0.01	-1.22±0.02	0.768±0.007	0.767±0.007	0.001±0.006	0.043±0.004
8.7	-3.0±0.3	0.0±0.4	-0.59±0.01	-1.21±0.02	0.787±0.007	0.786±0.007	0.000±0.006	0.042±0.004
9.8	-3.0±0.3	0.0±0.4	-0.58±0.01	-1.22±0.02	0.800±0.007	0.799±0.007	0.000±0.006	0.041±0.004
10.8	-2.8±0.3	0.0±0.4	-0.55±0.01	-1.21±0.02	0.812±0.007	0.811±0.007	0.000±0.005	0.040±0.004
11.8	-2.8±0.3	0.0±0.4	-0.54±0.01	-1.21±0.02	0.819±0.007	0.818±0.007	0.000±0.005	0.040±0.005
12.8	-2.8±0.3	0.0±0.4	-0.53±0.01	-1.21±0.02	0.828±0.007	0.827±0.007	0.000±0.005	0.040±0.005
13.8	-2.7±0.3	0.0±0.4	-0.51±0.01	-1.21±0.02	0.836±0.007	0.835±0.007	0.000±0.005	0.040±0.005
16.4	-2.7±0.3	0.0±0.3	-0.48±0.01	-1.21±0.02	0.857±0.007	0.856±0.007	0.000±0.005	0.041±0.005
18.9	-2.6±0.3	0.0±0.3	-0.45±0.01	-1.21±0.02	0.873±0.007	0.872±0.007	0.001±0.005	0.040±0.005
21.4	-2.6±0.3	0.1±0.3	-0.43±0.01	-1.21±0.02	0.886±0.006	0.885±0.006	0.001±0.005	0.041±0.005
24.0	-2.7±0.3	0.1±0.3	-0.40±0.01	-1.21±0.02	0.902±0.006	0.901±0.006	0.001±0.005	0.043±0.005
26.5	-2.6±0.3	0.1±0.3	-0.37±0.01	-1.21±0.02	0.918±0.006	0.917±0.006	0.002±0.005	0.042±0.005
29.1	-2.6±0.3	0.1±0.3	-0.34±0.01	-1.21±0.02	0.929±0.006	0.928±0.006	0.001±0.005	0.043±0.005
31.6	-2.7±0.3	0.1±0.3	-0.33±0.01	-1.22±0.02	0.941±0.006	0.940±0.006	0.002±0.005	0.044±0.005
34.1	-2.6±0.3	0.1±0.3	-0.29±0.01	-1.20±0.02	0.949±0.006	0.948±0.006	0.002±0.005	0.044±0.005
36.7	-2.6±0.3	0.2±0.3	-0.28±0.01	-1.21±0.02	0.967±0.006	0.966±0.006	0.003±0.005	0.045±0.005
39.2	-2.5±0.3	0.2±0.3	-0.26±0.01	-1.21±0.02	0.976±0.006	0.975±0.006	0.003±0.005	0.043±0.005
44.3	-2.5±0.3	0.2±0.3	-0.22±0.01	-1.21±0.02	0.997±0.007	0.996±0.006	0.004±0.004	0.044±0.006
49.4	-2.6±0.3	0.4±0.2	-0.18±0.01	-1.21±0.02	1.015±0.007	1.014±0.007	0.006±0.004	0.046±0.006
54.5	-2.5±0.3	0.4±0.2	-0.13±0.01	-1.20±0.02	1.035±0.007	1.034±0.007	0.007±0.004	0.046±0.006
59.5	-2.5±0.3	0.4±0.2	-0.10±0.01	-1.20±0.02	1.050±0.007	1.049±0.007	0.007±0.004	0.046±0.006
64.6	-2.5±0.3	0.4±0.2	-0.07±0.01	-1.20±0.02	1.064±0.007	1.063±0.007	0.007±0.004	0.047±0.006
69.7	-2.5±0.3	0.4±0.2	-0.04±0.01	-1.21±0.02	1.079±0.007	1.078±0.007	0.007±0.004	0.046±0.006
74.8	-2.5±0.3	0.4±0.2	-0.02±0.01	-1.20±0.02	1.086±0.007	1.085±0.007	0.007±0.004	0.047±0.006
79.9	-2.5±0.3	0.4±0.2	-0.01±0.01	-1.21±0.02	1.094±0.007	1.093±0.007	0.008±0.004	0.047±0.006
84.9	-2.4±0.3	0.4±0.2	0.00±0.01	-1.20±0.02	1.095±0.007	1.094±0.007	0.007±0.004	0.046±0.006
90.0	-2.4±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.100±0.007	1.099±0.007	0.007±0.004	0.046±0.006
100.2	-2.3±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.100±0.007	1.099±0.007	0.007±0.004	0.044±0.006
110.3	-2.3±0.3	0.3±0.2	0.01±0.01	-1.20±0.02	1.100±0.007	1.100±0.007	0.006±0.004	0.043±0.006
120.5	-2.1±0.3	0.3±0.2	0.01±0.01	-1.20±0.02	1.101±0.007	1.101±0.007	0.006±0.004	0.041±0.006
130.7	-2.1±0.3	0.2±0.2	0.01±0.01	-1.20±0.02	1.101±0.007	1.100±0.007	0.004±0.004	0.040±0.006
140.8	-2.1±0.3	0.1±0.2	0.01±0.01	-1.20±0.02	1.100±0.007	1.100±0.007	0.002±0.004	0.040±0.006

Table B.284 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-4.3±0.3	1.2±0.6	-0.77±0.01	-1.20±0.02	0.656±0.007	0.654±0.007	0.014±0.007	0.050±0.004
4.7	-4.2±0.3	0.5±0.5	-0.72±0.01	-1.20±0.02	0.688±0.007	0.686±0.007	0.006±0.006	0.050±0.004
5.7	-4.0±0.3	0.3±0.5	-0.69±0.01	-1.20±0.02	0.716±0.007	0.714±0.007	0.004±0.006	0.051±0.004
6.7	-3.8±0.3	0.0±0.5	-0.66±0.01	-1.21±0.02	0.739±0.007	0.737±0.007	0.000±0.006	0.049±0.004
7.7	-3.7±0.3	0.0±0.5	-0.64±0.01	-1.20±0.02	0.750±0.007	0.748±0.007	0.001±0.006	0.048±0.004
8.7	-3.5±0.3	-0.1±0.4	-0.62±0.01	-1.21±0.02	0.768±0.007	0.767±0.007	-0.001±0.006	0.047±0.004
9.8	-3.4±0.3	0.0±0.4	-0.60±0.01	-1.21±0.02	0.784±0.007	0.782±0.007	-0.001±0.006	0.047±0.004
10.8	-3.3±0.3	0.0±0.4	-0.58±0.01	-1.21±0.02	0.790±0.007	0.788±0.007	0.000±0.006	0.046±0.004
11.8	-3.3±0.3	0.0±0.4	-0.56±0.01	-1.20±0.02	0.800±0.007	0.798±0.007	0.000±0.006	0.046±0.004
12.8	-3.2±0.3	0.0±0.4	-0.55±0.01	-1.21±0.02	0.811±0.007	0.810±0.007	0.000±0.005	0.045±0.004
13.8	-3.1±0.3	0.0±0.4	-0.54±0.01	-1.21±0.02	0.817±0.007	0.816±0.007	0.000±0.005	0.044±0.005
16.4	-3.0±0.3	0.1±0.4	-0.50±0.01	-1.22±0.02	0.844±0.007	0.843±0.007	0.001±0.005	0.044±0.005
18.9	-2.9±0.3	0.0±0.4	-0.48±0.01	-1.20±0.02	0.850±0.007	0.849±0.007	0.000±0.005	0.043±0.005
21.4	-2.9±0.3	0.0±0.3	-0.44±0.01	-1.20±0.02	0.868±0.007	0.867±0.007	0.001±0.005	0.044±0.005
24.0	-2.9±0.3	0.1±0.3	-0.42±0.01	-1.20±0.02	0.883±0.007	0.882±0.007	0.002±0.005	0.045±0.005
26.5	-2.9±0.3	0.2±0.3	-0.40±0.01	-1.21±0.02	0.900±0.007	0.899±0.007	0.003±0.005	0.046±0.005
29.1	-2.9±0.3	0.3±0.3	-0.37±0.01	-1.20±0.02	0.914±0.007	0.913±0.007	0.004±0.005	0.046±0.005
31.6	-2.9±0.3	0.3±0.3	-0.35±0.01	-1.21±0.02	0.926±0.007	0.925±0.007	0.005±0.005	0.047±0.005
34.1	-2.9±0.3	0.3±0.3	-0.32±0.01	-1.20±0.02	0.938±0.007	0.937±0.007	0.006±0.005	0.047±0.005
36.7	-2.9±0.3	0.4±0.3	-0.30±0.01	-1.20±0.02	0.950±0.007	0.949±0.007	0.006±0.005	0.048±0.005
39.2	-2.9±0.3	0.4±0.3	-0.27±0.01	-1.20±0.02	0.962±0.007	0.961±0.007	0.006±0.005	0.048±0.005
44.3	-2.9±0.3	0.4±0.3	-0.24±0.01	-1.21±0.02	0.987±0.007	0.986±0.007	0.006±0.005	0.049±0.005
49.4	-2.9±0.3	0.4±0.3	-0.20±0.01	-1.20±0.02	1.001±0.007	1.000±0.007	0.007±0.004	0.050±0.006
54.5	-2.9±0.3	0.4±0.2	-0.16±0.01	-1.20±0.02	1.022±0.007	1.021±0.007	0.007±0.004	0.051±0.006
59.5	-2.9±0.3	0.4±0.2	-0.12±0.01	-1.20±0.02	1.042±0.007	1.041±0.007	0.008±0.004	0.052±0.006
64.6	-2.9±0.3	0.4±0.2	-0.09±0.01	-1.21±0.02	1.057±0.007	1.056±0.007	0.008±0.004	0.053±0.006
69.7	-2.9±0.3	0.4±0.2	-0.06±0.01	-1.19±0.02	1.066±0.007	1.064±0.007	0.008±0.004	0.054±0.006
74.8	-2.8±0.3	0.4±0.2	-0.03±0.01	-1.19±0.02	1.078±0.007	1.076±0.007	0.008±0.004	0.052±0.006
79.9	-2.8±0.3	0.4±0.2	0.00±0.01	-1.18±0.02	1.085±0.007	1.084±0.007	0.008±0.004	0.052±0.006
84.9	-2.8±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.089±0.007	0.008±0.004	0.052±0.006
90.0	-2.7±0.3	0.4±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.093±0.007	0.008±0.004	0.052±0.006
100.2	-2.7±0.3	0.4±0.2	0.02±0.01	-1.18±0.02	1.094±0.007	1.093±0.007	0.008±0.004	0.051±0.006
110.3	-2.6±0.3	0.4±0.2	0.02±0.01	-1.19±0.02	1.096±0.007	1.095±0.007	0.007±0.004	0.049±0.006
120.5	-2.6±0.3	0.3±0.2	0.02±0.01	-1.18±0.02	1.095±0.007	1.094±0.007	0.006±0.004	0.049±0.006
130.7	-2.5±0.3	0.3±0.2	0.01±0.01	-1.18±0.02	1.095±0.007	1.094±0.007	0.005±0.004	0.048±0.006
140.8	-2.5±0.3	0.1±0.2	0.02±0.01	-1.18±0.02	1.094±0.007	1.093±0.007	0.002±0.004	0.047±0.006

Table B.285 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.3±0.3	1.2±0.7	-0.80±0.01	-1.18±0.02	0.616±0.008	0.615±0.008	0.013±0.007	0.036±0.003
4.7	-3.3±0.3	0.5±0.6	-0.76±0.01	-1.20±0.02	0.657±0.007	0.656±0.007	0.006±0.007	0.037±0.004
5.7	-3.2±0.3	0.3±0.5	-0.73±0.01	-1.20±0.02	0.688±0.007	0.687±0.007	0.003±0.006	0.039±0.004
6.7	-3.2±0.3	0.3±0.5	-0.69±0.01	-1.20±0.02	0.709±0.007	0.708±0.007	0.003±0.006	0.039±0.004
7.7	-3.0±0.3	0.1±0.5	-0.67±0.01	-1.20±0.02	0.729±0.007	0.728±0.007	0.001±0.006	0.039±0.004
8.7	-3.0±0.3	0.2±0.5	-0.64±0.01	-1.19±0.02	0.745±0.007	0.744±0.007	0.002±0.006	0.039±0.004
9.8	-2.9±0.3	0.2±0.4	-0.62±0.01	-1.20±0.02	0.760±0.007	0.759±0.007	0.003±0.006	0.039±0.004
10.8	-2.9±0.3	0.3±0.4	-0.60±0.01	-1.20±0.02	0.774±0.007	0.773±0.007	0.004±0.006	0.040±0.004
11.8	-2.9±0.3	0.3±0.4	-0.59±0.01	-1.21±0.02	0.787±0.007	0.786±0.007	0.004±0.006	0.039±0.004
12.8	-2.8±0.3	0.3±0.4	-0.57±0.01	-1.20±0.02	0.795±0.007	0.794±0.007	0.004±0.006	0.039±0.004
13.8	-2.9±0.3	0.4±0.4	-0.57±0.01	-1.20±0.02	0.798±0.007	0.797±0.007	0.005±0.006	0.040±0.004
16.4	-2.9±0.3	0.4±0.4	-0.53±0.01	-1.18±0.02	0.810±0.007	0.809±0.007	0.005±0.006	0.042±0.004
18.9	-2.9±0.3	0.4±0.4	-0.50±0.01	-1.20±0.02	0.834±0.007	0.833±0.007	0.006±0.005	0.042±0.005
21.4	-3.0±0.3	0.4±0.4	-0.48±0.01	-1.20±0.02	0.848±0.007	0.846±0.007	0.006±0.005	0.045±0.005
24.0	-3.0±0.3	0.5±0.3	-0.45±0.01	-1.19±0.02	0.861±0.007	0.860±0.007	0.007±0.005	0.045±0.005
26.5	-3.1±0.3	0.4±0.3	-0.42±0.01	-1.19±0.02	0.881±0.007	0.880±0.007	0.007±0.005	0.047±0.005
29.1	-3.1±0.3	0.4±0.3	-0.39±0.01	-1.20±0.02	0.897±0.007	0.896±0.007	0.007±0.005	0.048±0.005
31.6	-3.1±0.3	0.5±0.3	-0.37±0.01	-1.20±0.02	0.914±0.007	0.912±0.007	0.007±0.005	0.049±0.005
34.1	-3.1±0.3	0.5±0.3	-0.34±0.01	-1.20±0.02	0.926±0.007	0.924±0.007	0.008±0.005	0.050±0.005
36.7	-3.1±0.3	0.5±0.3	-0.32±0.01	-1.19±0.02	0.937±0.007	0.935±0.007	0.008±0.005	0.050±0.005
39.2	-3.1±0.3	0.5±0.3	-0.31±0.01	-1.22±0.02	0.952±0.007	0.951±0.007	0.008±0.005	0.051±0.005
44.3	-3.1±0.3	0.5±0.3	-0.25±0.01	-1.19±0.02	0.969±0.007	0.968±0.007	0.008±0.005	0.052±0.005
49.4	-3.0±0.3	0.5±0.3	-0.22±0.01	-1.20±0.02	0.992±0.007	0.991±0.007	0.008±0.004	0.052±0.005
54.5	-3.1±0.3	0.6±0.2	-0.17±0.01	-1.20±0.02	1.016±0.007	1.014±0.007	0.010±0.004	0.054±0.006
59.5	-3.0±0.3	0.5±0.2	-0.13±0.01	-1.19±0.02	1.031±0.007	1.029±0.007	0.009±0.004	0.054±0.006
64.6	-3.1±0.3	0.6±0.2	-0.09±0.01	-1.18±0.02	1.046±0.007	1.044±0.007	0.011±0.004	0.056±0.006
69.7	-3.0±0.3	0.6±0.2	-0.07±0.01	-1.18±0.02	1.056±0.007	1.055±0.007	0.011±0.004	0.055±0.006
74.8	-3.0±0.3	0.5±0.2	-0.04±0.01	-1.19±0.02	1.071±0.007	1.069±0.007	0.010±0.004	0.056±0.006
79.9	-2.9±0.3	0.6±0.2	-0.02±0.01	-1.18±0.02	1.079±0.007	1.078±0.007	0.010±0.004	0.055±0.006
84.9	-2.9±0.3	0.5±0.2	0.00±0.01	-1.18±0.02	1.084±0.007	1.082±0.007	0.010±0.004	0.055±0.006
90.0	-2.9±0.3	0.5±0.2	0.01±0.01	-1.18±0.02	1.087±0.007	1.086±0.007	0.010±0.004	0.054±0.006
100.2	-2.8±0.3	0.5±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.089±0.007	0.009±0.004	0.053±0.006
110.3	-2.7±0.3	0.4±0.2	0.02±0.01	-1.17±0.02	1.091±0.007	1.090±0.007	0.007±0.004	0.052±0.006
120.5	-2.7±0.3	0.3±0.2	0.01±0.01	-1.17±0.02	1.091±0.007	1.089±0.007	0.006±0.004	0.051±0.006
130.7	-2.7±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.090±0.007	1.089±0.007	0.005±0.004	0.052±0.006
140.8	-2.6±0.3	0.1±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.090±0.007	0.002±0.004	0.050±0.006

Table B.286 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.3±0.3	1.1±0.7	-0.79±0.01	-1.18±0.02	0.626±0.007	0.624±0.007	0.012±0.007	0.036±0.003
4.7	-3.2±0.3	0.5±0.6	-0.74±0.01	-1.18±0.02	0.659±0.007	0.658±0.007	0.005±0.007	0.036±0.004
5.7	-3.1±0.3	0.3±0.5	-0.71±0.01	-1.18±0.02	0.688±0.007	0.687±0.007	0.004±0.006	0.037±0.004
6.7	-3.1±0.3	0.3±0.5	-0.68±0.01	-1.19±0.02	0.714±0.007	0.713±0.007	0.003±0.006	0.038±0.004
7.7	-3.0±0.3	0.1±0.5	-0.65±0.01	-1.19±0.02	0.736±0.007	0.735±0.007	0.001±0.006	0.039±0.004
8.7	-2.9±0.3	0.1±0.5	-0.62±0.01	-1.18±0.02	0.747±0.007	0.746±0.007	0.002±0.006	0.037±0.004
9.8	-2.8±0.3	0.2±0.4	-0.60±0.01	-1.18±0.02	0.766±0.007	0.765±0.007	0.002±0.006	0.037±0.004
10.8	-2.7±0.3	0.2±0.4	-0.58±0.01	-1.19±0.02	0.778±0.007	0.777±0.007	0.003±0.006	0.036±0.004
11.8	-2.6±0.3	0.3±0.4	-0.56±0.01	-1.18±0.02	0.785±0.007	0.785±0.007	0.004±0.006	0.036±0.004
12.8	-2.7±0.3	0.3±0.4	-0.56±0.01	-1.20±0.02	0.800±0.007	0.799±0.007	0.004±0.006	0.038±0.004
13.8	-2.6±0.3	0.3±0.4	-0.54±0.01	-1.19±0.02	0.807±0.007	0.806±0.007	0.005±0.005	0.037±0.004
16.4	-2.8±0.3	0.4±0.4	-0.51±0.01	-1.19±0.02	0.824±0.007	0.823±0.007	0.005±0.005	0.040±0.005
18.9	-2.9±0.3	0.4±0.4	-0.49±0.01	-1.19±0.02	0.839±0.007	0.838±0.007	0.006±0.005	0.042±0.005
21.4	-2.9±0.3	0.4±0.3	-0.47±0.01	-1.21±0.02	0.858±0.007	0.857±0.007	0.006±0.005	0.043±0.005
24.0	-3.0±0.3	0.4±0.3	-0.43±0.01	-1.19±0.02	0.867±0.007	0.866±0.007	0.006±0.005	0.046±0.005
26.5	-3.1±0.3	0.4±0.3	-0.40±0.01	-1.19±0.02	0.886±0.007	0.885±0.007	0.007±0.005	0.048±0.005
29.1	-3.1±0.3	0.4±0.3	-0.38±0.01	-1.20±0.02	0.904±0.006	0.902±0.006	0.007±0.005	0.048±0.005
31.6	-3.1±0.3	0.5±0.3	-0.36±0.01	-1.19±0.02	0.913±0.006	0.912±0.006	0.007±0.005	0.049±0.005
34.1	-3.1±0.3	0.5±0.3	-0.35±0.01	-1.20±0.02	0.921±0.006	0.920±0.006	0.009±0.005	0.050±0.005
36.7	-3.2±0.3	0.5±0.3	-0.32±0.01	-1.20±0.02	0.940±0.006	0.938±0.006	0.008±0.005	0.052±0.005
39.2	-3.2±0.3	0.5±0.3	-0.30±0.01	-1.20±0.02	0.947±0.006	0.945±0.006	0.009±0.005	0.052±0.005
44.3	-3.2±0.3	0.6±0.3	-0.24±0.01	-1.18±0.02	0.969±0.006	0.967±0.006	0.010±0.005	0.053±0.005
49.4	-3.2±0.3	0.6±0.3	-0.20±0.01	-1.18±0.02	0.989±0.007	0.987±0.006	0.011±0.004	0.055±0.005
54.5	-3.1±0.3	0.6±0.2	-0.17±0.01	-1.20±0.02	1.013±0.007	1.012±0.007	0.011±0.004	0.055±0.006
59.5	-3.1±0.3	0.6±0.2	-0.14±0.01	-1.19±0.02	1.028±0.007	1.026±0.007	0.011±0.004	0.056±0.006
64.6	-3.1±0.3	0.6±0.2	-0.09±0.01	-1.18±0.02	1.044±0.007	1.042±0.007	0.011±0.004	0.056±0.006
69.7	-3.1±0.3	0.6±0.2	-0.07±0.01	-1.18±0.02	1.056±0.007	1.054±0.007	0.012±0.004	0.057±0.006
74.8	-3.0±0.3	0.6±0.2	-0.04±0.01	-1.19±0.02	1.070±0.007	1.068±0.007	0.010±0.004	0.056±0.006
79.9	-3.0±0.3	0.6±0.2	-0.02±0.01	-1.18±0.02	1.077±0.007	1.075±0.007	0.011±0.004	0.057±0.006
84.9	-3.0±0.3	0.5±0.2	-0.01±0.01	-1.18±0.02	1.084±0.007	1.082±0.007	0.010±0.004	0.056±0.006
90.0	-2.9±0.3	0.5±0.2	0.00±0.01	-1.18±0.02	1.087±0.007	1.086±0.007	0.009±0.004	0.055±0.006
100.2	-2.9±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.088±0.007	0.008±0.004	0.055±0.006
110.3	-2.9±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.088±0.007	0.007±0.004	0.055±0.006
120.5	-2.8±0.3	0.3±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.088±0.007	0.005±0.004	0.054±0.006
130.7	-2.8±0.3	0.1±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.088±0.007	0.002±0.004	0.053±0.006
140.8	-2.8±0.3	0.1±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.088±0.007	0.001±0.004	0.052±0.006

Table B.287 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.3±0.3	1.2±0.7	-0.81±0.01	-1.18±0.02	0.609±0.008	0.608±0.008	0.013±0.007	0.035±0.003
4.7	-3.3±0.3	0.4±0.6	-0.75±0.01	-1.17±0.02	0.645±0.007	0.644±0.007	0.005±0.007	0.038±0.004
5.7	-3.1±0.3	0.3±0.6	-0.71±0.01	-1.17±0.02	0.676±0.007	0.675±0.007	0.003±0.007	0.037±0.004
6.7	-3.2±0.3	0.2±0.5	-0.69±0.01	-1.18±0.02	0.703±0.007	0.702±0.007	0.003±0.006	0.039±0.004
7.7	-3.1±0.3	0.2±0.5	-0.66±0.01	-1.18±0.02	0.724±0.007	0.723±0.007	0.002±0.006	0.039±0.004
8.7	-2.9±0.3	0.2±0.5	-0.62±0.01	-1.17±0.02	0.745±0.007	0.744±0.007	0.003±0.006	0.038±0.004
9.8	-2.9±0.3	0.3±0.4	-0.60±0.01	-1.17±0.02	0.757±0.007	0.756±0.007	0.004±0.006	0.039±0.004
10.8	-3.0±0.3	0.3±0.4	-0.58±0.01	-1.17±0.02	0.767±0.007	0.766±0.007	0.004±0.006	0.040±0.004
11.8	-2.9±0.3	0.4±0.4	-0.56±0.01	-1.18±0.02	0.783±0.007	0.782±0.007	0.005±0.006	0.040±0.004
12.8	-2.9±0.3	0.4±0.4	-0.54±0.01	-1.18±0.02	0.796±0.007	0.795±0.007	0.005±0.006	0.040±0.004
13.8	-2.9±0.3	0.4±0.4	-0.54±0.01	-1.18±0.02	0.804±0.007	0.803±0.007	0.006±0.006	0.041±0.004
16.4	-3.1±0.3	0.4±0.4	-0.50±0.01	-1.17±0.02	0.819±0.007	0.817±0.007	0.006±0.005	0.044±0.005
18.9	-3.2±0.3	0.5±0.4	-0.48±0.01	-1.18±0.02	0.833±0.007	0.832±0.007	0.007±0.005	0.046±0.005
21.4	-3.3±0.3	0.5±0.3	-0.46±0.01	-1.19±0.02	0.854±0.007	0.852±0.007	0.007±0.005	0.049±0.005
24.0	-3.3±0.3	0.5±0.3	-0.43±0.01	-1.18±0.02	0.863±0.007	0.861±0.007	0.008±0.005	0.050±0.005
26.5	-3.5±0.3	0.6±0.3	-0.40±0.01	-1.17±0.02	0.878±0.007	0.876±0.006	0.010±0.005	0.053±0.005
29.1	-3.5±0.3	0.5±0.3	-0.38±0.01	-1.18±0.02	0.891±0.006	0.889±0.006	0.008±0.005	0.054±0.005
31.6	-3.5±0.3	0.6±0.3	-0.36±0.01	-1.17±0.02	0.902±0.006	0.900±0.006	0.009±0.005	0.056±0.005
34.1	-3.6±0.3	0.6±0.3	-0.34±0.01	-1.18±0.02	0.916±0.006	0.914±0.006	0.010±0.005	0.057±0.005
36.7	-3.6±0.3	0.7±0.3	-0.31±0.01	-1.17±0.02	0.930±0.006	0.929±0.006	0.011±0.005	0.058±0.005
39.2	-3.6±0.3	0.7±0.3	-0.29±0.01	-1.17±0.02	0.939±0.006	0.937±0.006	0.011±0.005	0.059±0.005
44.3	-3.6±0.3	0.7±0.3	-0.26±0.01	-1.19±0.02	0.962±0.006	0.960±0.006	0.012±0.005	0.060±0.005
49.4	-3.6±0.3	0.7±0.3	-0.22±0.01	-1.18±0.02	0.981±0.006	0.979±0.006	0.012±0.005	0.062±0.005
54.5	-3.7±0.3	0.6±0.3	-0.16±0.01	-1.16±0.02	1.002±0.007	1.000±0.006	0.011±0.004	0.064±0.006
59.5	-3.6±0.3	0.6±0.2	-0.13±0.01	-1.17±0.02	1.017±0.007	1.014±0.007	0.011±0.004	0.064±0.006
64.6	-3.6±0.3	0.6±0.2	-0.09±0.01	-1.16±0.02	1.035±0.007	1.033±0.007	0.012±0.004	0.066±0.006
69.7	-3.6±0.3	0.6±0.2	-0.06±0.01	-1.16±0.02	1.049±0.007	1.047±0.007	0.011±0.004	0.066±0.006
74.8	-3.6±0.3	0.5±0.2	-0.04±0.01	-1.17±0.02	1.062±0.007	1.060±0.007	0.009±0.004	0.066±0.006
79.9	-3.5±0.3	0.5±0.2	-0.02±0.01	-1.17±0.02	1.069±0.007	1.067±0.007	0.008±0.004	0.065±0.006
84.9	-3.5±0.3	0.5±0.2	-0.01±0.01	-1.16±0.02	1.074±0.007	1.072±0.007	0.009±0.004	0.065±0.006
90.0	-3.5±0.3	0.4±0.2	0.00±0.01	-1.16±0.02	1.078±0.007	1.076±0.007	0.008±0.004	0.065±0.006
100.2	-3.4±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.077±0.007	0.007±0.004	0.064±0.006
110.3	-3.3±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.078±0.007	0.004±0.004	0.062±0.006
120.5	-3.4±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.078±0.007	0.003±0.004	0.063±0.006
130.7	-3.2±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.079±0.007	-0.001±0.004	0.061±0.006
140.8	-3.2±0.3	-0.1±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.078±0.007	-0.002±0.004	0.060±0.006

Table B.288 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.8±0.3	1.2±0.7	-0.79±0.01	-1.16±0.02	0.604±0.008	0.603±0.008	0.012±0.007	0.030±0.003
4.7	-3.0±0.3	0.5±0.6	-0.75±0.01	-1.15±0.02	0.638±0.007	0.637±0.007	0.005±0.007	0.033±0.004
5.7	-2.9±0.3	0.3±0.6	-0.71±0.01	-1.15±0.02	0.668±0.007	0.667±0.007	0.004±0.007	0.034±0.004
6.7	-2.9±0.3	0.3±0.5	-0.67±0.01	-1.16±0.02	0.696±0.007	0.695±0.007	0.003±0.006	0.035±0.004
7.7	-2.9±0.3	0.2±0.5	-0.64±0.01	-1.16±0.02	0.721±0.007	0.720±0.007	0.003±0.006	0.036±0.004
8.7	-2.7±0.3	0.2±0.5	-0.61±0.01	-1.16±0.02	0.739±0.007	0.738±0.007	0.002±0.006	0.035±0.004
9.8	-2.8±0.3	0.2±0.4	-0.59±0.01	-1.16±0.02	0.757±0.007	0.756±0.007	0.003±0.006	0.037±0.004
10.8	-2.7±0.3	0.3±0.4	-0.57±0.01	-1.16±0.02	0.769±0.007	0.768±0.007	0.005±0.006	0.036±0.004
11.8	-2.8±0.3	0.3±0.4	-0.55±0.01	-1.16±0.02	0.782±0.007	0.782±0.007	0.005±0.006	0.038±0.004
12.8	-2.7±0.3	0.4±0.4	-0.54±0.01	-1.16±0.02	0.789±0.007	0.788±0.007	0.005±0.006	0.038±0.004
13.8	-2.8±0.3	0.4±0.4	-0.52±0.01	-1.16±0.02	0.796±0.007	0.795±0.007	0.006±0.006	0.039±0.004
16.4	-3.0±0.3	0.5±0.4	-0.49±0.01	-1.16±0.02	0.816±0.007	0.814±0.007	0.007±0.005	0.042±0.005
18.9	-3.0±0.3	0.5±0.4	-0.47±0.01	-1.16±0.02	0.832±0.007	0.831±0.007	0.007±0.005	0.044±0.005
21.4	-3.2±0.3	0.5±0.4	-0.45±0.01	-1.16±0.02	0.845±0.007	0.844±0.007	0.008±0.005	0.047±0.005
24.0	-3.3±0.3	0.5±0.3	-0.42±0.01	-1.16±0.02	0.858±0.007	0.857±0.007	0.008±0.005	0.050±0.005
26.5	-3.4±0.3	0.6±0.3	-0.40±0.01	-1.15±0.02	0.871±0.007	0.869±0.007	0.009±0.005	0.051±0.005
29.1	-3.5±0.3	0.6±0.3	-0.38±0.01	-1.17±0.02	0.889±0.006	0.887±0.006	0.010±0.005	0.054±0.005
31.6	-3.4±0.3	0.6±0.3	-0.35±0.01	-1.15±0.02	0.892±0.006	0.890±0.006	0.010±0.005	0.053±0.005
34.1	-3.5±0.3	0.6±0.3	-0.32±0.01	-1.15±0.02	0.910±0.006	0.908±0.006	0.009±0.005	0.056±0.005
36.7	-3.5±0.3	0.7±0.3	-0.30±0.01	-1.16±0.02	0.926±0.006	0.924±0.006	0.011±0.005	0.057±0.005
39.2	-3.6±0.3	0.7±0.3	-0.28±0.01	-1.16±0.02	0.938±0.006	0.936±0.006	0.011±0.005	0.059±0.005
44.3	-3.6±0.3	0.7±0.3	-0.24±0.01	-1.15±0.02	0.954±0.006	0.952±0.006	0.012±0.005	0.059±0.005
49.4	-3.6±0.3	0.6±0.3	-0.19±0.01	-1.15±0.02	0.980±0.006	0.978±0.006	0.011±0.005	0.062±0.005
54.5	-3.6±0.3	0.7±0.3	-0.16±0.01	-1.15±0.02	0.996±0.006	0.994±0.006	0.012±0.004	0.062±0.005
59.5	-3.6±0.3	0.6±0.2	-0.13±0.01	-1.16±0.02	1.013±0.007	1.011±0.007	0.011±0.004	0.064±0.006
64.6	-3.6±0.3	0.6±0.2	-0.09±0.01	-1.15±0.02	1.027±0.007	1.025±0.007	0.010±0.004	0.064±0.006
69.7	-3.5±0.3	0.6±0.2	-0.06±0.01	-1.15±0.02	1.040±0.007	1.038±0.007	0.011±0.004	0.064±0.006
74.8	-3.5±0.3	0.5±0.2	-0.04±0.01	-1.15±0.02	1.052±0.007	1.050±0.007	0.008±0.004	0.064±0.006
79.9	-3.5±0.3	0.4±0.2	-0.01±0.01	-1.14±0.02	1.061±0.007	1.059±0.007	0.008±0.004	0.064±0.006
84.9	-3.4±0.3	0.5±0.2	0.00±0.01	-1.14±0.02	1.066±0.007	1.064±0.007	0.008±0.004	0.064±0.006
90.0	-3.4±0.3	0.4±0.2	0.00±0.01	-1.14±0.02	1.069±0.007	1.067±0.007	0.008±0.004	0.064±0.006
100.2	-3.3±0.3	0.4±0.2	0.01±0.01	-1.14±0.02	1.072±0.007	1.070±0.007	0.007±0.004	0.062±0.006
110.3	-3.3±0.3	0.2±0.2	0.01±0.01	-1.14±0.02	1.073±0.007	1.071±0.007	0.004±0.004	0.062±0.006
120.5	-3.3±0.3	0.1±0.2	0.01±0.01	-1.14±0.02	1.072±0.007	1.071±0.007	0.002±0.004	0.061±0.006
130.7	-3.2±0.3	0.0±0.2	0.01±0.01	-1.14±0.02	1.073±0.007	1.072±0.007	0.000±0.004	0.060±0.006
140.8	-3.1±0.3	-0.2±0.2	0.01±0.01	-1.14±0.02	1.073±0.007	1.071±0.007	-0.003±0.004	0.058±0.006

Table B.289 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.8±0.3	1.2±0.7	-0.79±0.01	-1.15±0.02	0.603±0.008	0.602±0.008	0.012±0.007	0.029±0.003
4.7	-2.9±0.3	0.4±0.6	-0.74±0.01	-1.15±0.02	0.643±0.007	0.642±0.007	0.005±0.007	0.032±0.004
5.7	-3.0±0.3	0.3±0.6	-0.70±0.01	-1.15±0.02	0.673±0.007	0.672±0.007	0.004±0.007	0.035±0.004
6.7	-3.0±0.3	0.3±0.5	-0.66±0.01	-1.16±0.02	0.704±0.007	0.703±0.007	0.003±0.006	0.036±0.004
7.7	-2.9±0.3	0.2±0.5	-0.62±0.01	-1.16±0.02	0.730±0.007	0.729±0.007	0.003±0.006	0.037±0.004
8.7	-2.9±0.3	0.3±0.4	-0.60±0.01	-1.16±0.02	0.750±0.007	0.749±0.007	0.003±0.006	0.038±0.004
9.8	-2.9±0.3	0.3±0.4	-0.57±0.01	-1.15±0.02	0.761±0.007	0.760±0.007	0.004±0.006	0.038±0.004
10.8	-2.9±0.3	0.3±0.4	-0.56±0.01	-1.15±0.02	0.773±0.007	0.772±0.007	0.004±0.006	0.039±0.004
11.8	-3.0±0.3	0.3±0.4	-0.53±0.01	-1.15±0.02	0.788±0.007	0.787±0.007	0.005±0.006	0.041±0.004
12.8	-2.9±0.3	0.3±0.4	-0.52±0.01	-1.16±0.02	0.798±0.007	0.797±0.007	0.005±0.006	0.041±0.004
13.8	-3.1±0.3	0.4±0.4	-0.51±0.01	-1.16±0.02	0.806±0.007	0.805±0.007	0.006±0.005	0.043±0.004
16.4	-3.2±0.3	0.4±0.4	-0.48±0.01	-1.16±0.02	0.823±0.007	0.821±0.007	0.006±0.005	0.046±0.005
18.9	-3.3±0.3	0.5±0.4	-0.47±0.01	-1.16±0.02	0.832±0.007	0.830±0.007	0.007±0.005	0.048±0.005
21.4	-3.4±0.3	0.6±0.4	-0.44±0.01	-1.16±0.02	0.849±0.007	0.847±0.007	0.008±0.005	0.051±0.005
24.0	-3.6±0.3	0.5±0.3	-0.42±0.01	-1.16±0.02	0.863±0.007	0.861±0.006	0.008±0.005	0.054±0.005
26.5	-3.7±0.3	0.5±0.3	-0.39±0.01	-1.16±0.02	0.874±0.006	0.872±0.006	0.008±0.005	0.056±0.005
29.1	-3.7±0.3	0.5±0.3	-0.37±0.01	-1.15±0.02	0.887±0.006	0.885±0.006	0.008±0.005	0.058±0.005
31.6	-3.8±0.3	0.5±0.3	-0.34±0.01	-1.16±0.02	0.901±0.006	0.899±0.006	0.008±0.005	0.060±0.005
34.1	-3.8±0.3	0.6±0.3	-0.32±0.01	-1.16±0.02	0.914±0.006	0.912±0.006	0.009±0.005	0.060±0.005
36.7	-3.9±0.3	0.6±0.3	-0.29±0.01	-1.15±0.02	0.927±0.006	0.924±0.006	0.010±0.005	0.063±0.005
39.2	-3.9±0.3	0.7±0.3	-0.28±0.01	-1.16±0.02	0.937±0.006	0.935±0.006	0.011±0.005	0.064±0.005
44.3	-3.9±0.3	0.6±0.3	-0.24±0.01	-1.16±0.02	0.958±0.006	0.956±0.006	0.009±0.005	0.065±0.005
49.4	-3.9±0.3	0.6±0.3	-0.20±0.01	-1.16±0.02	0.979±0.006	0.977±0.006	0.011±0.004	0.067±0.005
54.5	-4.0±0.3	0.5±0.3	-0.16±0.01	-1.15±0.02	0.992±0.006	0.990±0.006	0.009±0.004	0.069±0.005
59.5	-3.9±0.3	0.5±0.2	-0.12±0.01	-1.15±0.02	1.012±0.006	1.010±0.006	0.009±0.004	0.069±0.006
64.6	-3.9±0.3	0.5±0.2	-0.09±0.01	-1.15±0.02	1.029±0.007	1.027±0.007	0.009±0.004	0.070±0.006
69.7	-3.9±0.3	0.5±0.2	-0.06±0.01	-1.14±0.02	1.041±0.007	1.038±0.007	0.009±0.004	0.070±0.006
74.8	-3.9±0.3	0.5±0.2	-0.04±0.01	-1.14±0.02	1.052±0.007	1.049±0.007	0.008±0.004	0.071±0.006
79.9	-3.8±0.3	0.4±0.2	-0.02±0.01	-1.14±0.02	1.061±0.007	1.059±0.007	0.008±0.004	0.071±0.006
84.9	-3.8±0.3	0.4±0.2	-0.01±0.01	-1.14±0.02	1.066±0.007	1.064±0.007	0.008±0.004	0.070±0.006
90.0	-3.7±0.3	0.4±0.2	0.00±0.01	-1.14±0.02	1.070±0.007	1.068±0.007	0.008±0.004	0.069±0.006
100.2	-3.6±0.3	0.3±0.2	0.01±0.01	-1.14±0.02	1.072±0.007	1.069±0.007	0.006±0.004	0.068±0.006
110.3	-3.6±0.3	0.2±0.2	0.01±0.01	-1.14±0.02	1.072±0.007	1.069±0.007	0.003±0.004	0.067±0.006
120.5	-3.6±0.3	0.1±0.2	0.01±0.01	-1.14±0.02	1.072±0.007	1.070±0.007	0.002±0.004	0.067±0.006
130.7	-3.5±0.3	-0.1±0.2	0.01±0.01	-1.14±0.02	1.072±0.007	1.070±0.007	-0.001±0.004	0.066±0.006
140.8	-3.4±0.3	-0.1±0.2	0.01±0.01	-1.14±0.02	1.072±0.007	1.071±0.007	-0.002±0.004	0.063±0.006

Table B.290 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.8±0.3	1.2±0.7	-0.79±0.01	-1.15±0.02	0.599±0.008	0.598±0.008	0.013±0.007	0.029±0.003
4.7	-2.9±0.3	0.4±0.6	-0.74±0.01	-1.14±0.02	0.636±0.007	0.635±0.007	0.004±0.007	0.032±0.004
5.7	-3.1±0.3	0.3±0.6	-0.70±0.01	-1.15±0.02	0.669±0.007	0.668±0.007	0.004±0.007	0.036±0.004
6.7	-3.0±0.3	0.2±0.5	-0.66±0.01	-1.16±0.02	0.702±0.007	0.701±0.007	0.003±0.006	0.037±0.004
7.7	-3.0±0.3	0.2±0.5	-0.63±0.01	-1.14±0.02	0.721±0.007	0.720±0.007	0.002±0.006	0.038±0.004
8.7	-3.0±0.3	0.2±0.5	-0.60±0.01	-1.15±0.02	0.744±0.007	0.743±0.007	0.002±0.006	0.039±0.004
9.8	-3.0±0.3	0.3±0.4	-0.58±0.01	-1.15±0.02	0.758±0.007	0.757±0.007	0.004±0.006	0.040±0.004
10.8	-3.1±0.3	0.3±0.4	-0.55±0.01	-1.15±0.02	0.775±0.007	0.774±0.007	0.005±0.006	0.041±0.004
11.8	-3.1±0.3	0.3±0.4	-0.53±0.01	-1.16±0.02	0.789±0.007	0.788±0.007	0.005±0.006	0.043±0.004
12.8	-3.1±0.3	0.4±0.4	-0.52±0.01	-1.16±0.02	0.794±0.007	0.793±0.007	0.005±0.006	0.043±0.004
13.8	-3.2±0.3	0.4±0.4	-0.50±0.01	-1.14±0.02	0.801±0.007	0.800±0.007	0.006±0.006	0.044±0.004
16.4	-3.3±0.3	0.4±0.4	-0.48±0.01	-1.15±0.02	0.821±0.007	0.819±0.007	0.006±0.005	0.047±0.005
18.9	-3.5±0.3	0.5±0.4	-0.45±0.01	-1.14±0.02	0.829±0.007	0.828±0.007	0.007±0.005	0.051±0.005
21.4	-3.7±0.3	0.5±0.4	-0.44±0.01	-1.16±0.02	0.848±0.007	0.846±0.007	0.007±0.005	0.054±0.005
24.0	-3.7±0.3	0.5±0.3	-0.42±0.01	-1.15±0.02	0.860±0.007	0.858±0.007	0.007±0.005	0.056±0.005
26.5	-3.9±0.3	0.5±0.3	-0.39±0.01	-1.15±0.02	0.873±0.007	0.871±0.006	0.008±0.005	0.059±0.005
29.1	-3.9±0.3	0.5±0.3	-0.37±0.01	-1.15±0.02	0.885±0.006	0.883±0.006	0.008±0.005	0.060±0.005
31.6	-4.0±0.3	0.6±0.3	-0.34±0.01	-1.14±0.02	0.895±0.006	0.892±0.006	0.010±0.005	0.063±0.005
34.1	-4.1±0.3	0.6±0.3	-0.33±0.01	-1.15±0.02	0.909±0.006	0.906±0.006	0.010±0.005	0.065±0.005
36.7	-4.1±0.3	0.6±0.3	-0.30±0.01	-1.15±0.02	0.921±0.006	0.918±0.006	0.010±0.005	0.066±0.005
39.2	-4.1±0.3	0.6±0.3	-0.28±0.01	-1.15±0.02	0.932±0.006	0.930±0.006	0.010±0.005	0.067±0.005
44.3	-4.2±0.3	0.7±0.3	-0.25±0.01	-1.15±0.02	0.953±0.006	0.951±0.006	0.011±0.005	0.070±0.005
49.4	-4.2±0.3	0.6±0.3	-0.20±0.01	-1.14±0.02	0.973±0.006	0.970±0.006	0.010±0.005	0.071±0.005
54.5	-4.1±0.3	0.6±0.3	-0.17±0.01	-1.15±0.02	0.991±0.006	0.989±0.006	0.010±0.004	0.072±0.005
59.5	-4.2±0.3	0.5±0.3	-0.13±0.01	-1.13±0.02	0.999±0.006	0.996±0.006	0.009±0.004	0.073±0.006
64.6	-4.2±0.3	0.5±0.2	-0.09±0.01	-1.14±0.02	1.024±0.007	1.021±0.007	0.009±0.004	0.075±0.006
69.7	-4.1±0.3	0.5±0.2	-0.06±0.01	-1.14±0.02	1.036±0.007	1.033±0.007	0.008±0.004	0.075±0.006
74.8	-4.1±0.3	0.4±0.2	-0.04±0.01	-1.13±0.02	1.045±0.007	1.043±0.007	0.008±0.004	0.075±0.006
79.9	-4.1±0.3	0.4±0.2	-0.02±0.01	-1.13±0.02	1.053±0.007	1.050±0.007	0.008±0.004	0.075±0.006
84.9	-4.0±0.3	0.4±0.2	0.00±0.01	-1.13±0.02	1.061±0.007	1.059±0.007	0.007±0.004	0.074±0.006
90.0	-4.0±0.3	0.4±0.2	0.00±0.01	-1.13±0.02	1.064±0.007	1.061±0.007	0.007±0.004	0.073±0.006
100.2	-3.9±0.3	0.4±0.2	0.01±0.01	-1.13±0.02	1.066±0.007	1.064±0.007	0.007±0.004	0.072±0.006
110.3	-3.8±0.3	0.1±0.2	0.01±0.01	-1.13±0.02	1.066±0.007	1.064±0.007	0.003±0.004	0.071±0.006
120.5	-3.8±0.3	0.0±0.2	0.01±0.01	-1.13±0.02	1.066±0.007	1.063±0.007	0.001±0.004	0.071±0.006
130.7	-3.7±0.3	-0.1±0.2	0.01±0.01	-1.13±0.02	1.065±0.007	1.063±0.007	-0.001±0.004	0.069±0.006
140.8	-3.6±0.3	-0.1±0.2	0.01±0.01	-1.13±0.02	1.066±0.007	1.064±0.007	-0.002±0.004	0.068±0.006

Table B.291 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.0±0.3	1.2±0.7	-0.79±0.01	-1.14±0.02	0.598±0.008	0.597±0.008	0.012±0.007	0.031±0.003
4.7	-3.2±0.3	0.4±0.6	-0.74±0.01	-1.13±0.02	0.630±0.007	0.629±0.007	0.005±0.007	0.035±0.003
5.7	-3.4±0.3	0.3±0.6	-0.68±0.01	-1.13±0.02	0.669±0.007	0.667±0.007	0.004±0.007	0.039±0.004
6.7	-3.4±0.3	0.2±0.5	-0.65±0.01	-1.15±0.02	0.704±0.007	0.703±0.007	0.002±0.006	0.042±0.004
7.7	-3.5±0.3	0.2±0.5	-0.62±0.01	-1.14±0.02	0.723±0.007	0.721±0.007	0.003±0.006	0.044±0.004
8.7	-3.5±0.3	0.2±0.5	-0.60±0.01	-1.15±0.02	0.748±0.007	0.746±0.007	0.003±0.006	0.046±0.004
9.8	-3.5±0.3	0.3±0.4	-0.56±0.01	-1.14±0.02	0.763±0.007	0.762±0.007	0.004±0.006	0.047±0.004
10.8	-3.6±0.3	0.3±0.4	-0.55±0.01	-1.15±0.02	0.777±0.007	0.775±0.007	0.005±0.006	0.049±0.004
11.8	-3.6±0.3	0.3±0.4	-0.53±0.01	-1.15±0.02	0.791±0.007	0.789±0.007	0.005±0.006	0.049±0.004
12.8	-3.6±0.3	0.4±0.4	-0.50±0.01	-1.14±0.02	0.796±0.007	0.795±0.007	0.005±0.006	0.050±0.004
13.8	-3.7±0.3	0.4±0.4	-0.50±0.01	-1.15±0.02	0.804±0.007	0.802±0.007	0.006±0.006	0.052±0.004
16.4	-3.8±0.3	0.4±0.4	-0.47±0.01	-1.15±0.02	0.824±0.007	0.823±0.007	0.006±0.005	0.055±0.005
18.9	-4.0±0.3	0.5±0.4	-0.45±0.01	-1.14±0.02	0.833±0.007	0.831±0.007	0.007±0.005	0.059±0.005
21.4	-4.2±0.3	0.4±0.4	-0.43±0.01	-1.14±0.02	0.847±0.007	0.844±0.007	0.007±0.005	0.062±0.005
24.0	-4.4±0.3	0.5±0.3	-0.40±0.01	-1.14±0.02	0.856±0.007	0.853±0.007	0.007±0.005	0.065±0.005
26.5	-4.5±0.3	0.5±0.3	-0.38±0.01	-1.14±0.02	0.871±0.007	0.868±0.006	0.007±0.005	0.068±0.005
29.1	-4.6±0.3	0.5±0.3	-0.37±0.01	-1.15±0.02	0.887±0.006	0.884±0.006	0.007±0.005	0.071±0.005
31.6	-4.5±0.3	0.5±0.3	-0.33±0.01	-1.13±0.02	0.893±0.006	0.890±0.006	0.008±0.005	0.071±0.005
34.1	-4.7±0.3	0.5±0.3	-0.31±0.01	-1.14±0.02	0.909±0.006	0.906±0.006	0.008±0.005	0.074±0.005
36.7	-4.7±0.3	0.5±0.3	-0.29±0.01	-1.13±0.02	0.916±0.006	0.913±0.006	0.007±0.005	0.075±0.005
39.2	-4.8±0.3	0.5±0.3	-0.28±0.01	-1.14±0.02	0.929±0.006	0.926±0.006	0.009±0.005	0.078±0.005
44.3	-4.8±0.3	0.5±0.3	-0.23±0.01	-1.14±0.02	0.953±0.006	0.949±0.006	0.009±0.005	0.080±0.005
49.4	-4.8±0.3	0.5±0.3	-0.20±0.01	-1.14±0.02	0.970±0.006	0.966±0.006	0.009±0.005	0.080±0.005
54.5	-4.8±0.3	0.4±0.3	-0.15±0.01	-1.13±0.02	0.989±0.006	0.985±0.006	0.007±0.004	0.083±0.005
59.5	-4.8±0.3	0.5±0.3	-0.13±0.01	-1.13±0.02	1.001±0.006	0.997±0.006	0.008±0.004	0.084±0.006
64.6	-4.8±0.3	0.4±0.2	-0.10±0.01	-1.13±0.02	1.015±0.007	1.011±0.007	0.008±0.004	0.085±0.006
69.7	-4.8±0.3	0.4±0.2	-0.06±0.01	-1.12±0.02	1.031±0.007	1.028±0.007	0.008±0.004	0.086±0.006
74.8	-4.7±0.3	0.4±0.2	-0.04±0.01	-1.13±0.02	1.043±0.007	1.040±0.007	0.008±0.004	0.085±0.006
79.9	-4.6±0.3	0.4±0.2	-0.02±0.01	-1.13±0.02	1.051±0.007	1.048±0.007	0.007±0.004	0.085±0.006
84.9	-4.6±0.3	0.4±0.2	-0.01±0.01	-1.13±0.02	1.056±0.007	1.053±0.007	0.007±0.004	0.085±0.006
90.0	-4.5±0.3	0.3±0.2	0.00±0.01	-1.12±0.02	1.059±0.007	1.056±0.007	0.006±0.004	0.084±0.006
100.2	-4.5±0.3	0.2±0.2	0.01±0.01	-1.12±0.02	1.060±0.007	1.057±0.007	0.003±0.004	0.083±0.006
110.3	-4.4±0.3	0.1±0.2	0.01±0.01	-1.12±0.02	1.061±0.007	1.058±0.007	0.002±0.004	0.081±0.006
120.5	-4.4±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.060±0.007	1.057±0.007	-0.001±0.004	0.081±0.006
130.7	-4.3±0.3	-0.1±0.2	0.01±0.01	-1.11±0.02	1.060±0.007	1.057±0.007	-0.001±0.004	0.079±0.006
140.8	-4.2±0.3	-0.2±0.2	0.01±0.01	-1.12±0.02	1.060±0.007	1.057±0.007	-0.004±0.004	0.077±0.006

Table B.292 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.9±0.3	1.1±0.7	-0.77±0.01	-1.13±0.02	0.597±0.008	0.596±0.008	0.011±0.007	0.030±0.003
4.7	-3.1±0.3	0.4±0.6	-0.73±0.01	-1.13±0.02	0.632±0.007	0.631±0.007	0.004±0.007	0.034±0.004
5.7	-3.3±0.3	0.3±0.6	-0.68±0.01	-1.13±0.02	0.673±0.007	0.672±0.007	0.004±0.007	0.038±0.004
6.7	-3.4±0.3	0.1±0.5	-0.64±0.01	-1.14±0.02	0.706±0.007	0.704±0.007	0.001±0.006	0.042±0.004
7.7	-3.4±0.3	0.2±0.5	-0.61±0.01	-1.14±0.02	0.725±0.007	0.724±0.007	0.002±0.006	0.043±0.004
8.7	-3.6±0.3	0.3±0.5	-0.58±0.01	-1.14±0.02	0.748±0.007	0.747±0.007	0.004±0.006	0.046±0.004
9.8	-3.6±0.3	0.3±0.4	-0.55±0.01	-1.14±0.02	0.767±0.007	0.766±0.007	0.005±0.006	0.048±0.004
10.8	-3.7±0.3	0.3±0.4	-0.53±0.01	-1.13±0.02	0.779±0.007	0.777±0.007	0.005±0.006	0.050±0.004
11.8	-3.6±0.3	0.4±0.4	-0.51±0.01	-1.13±0.02	0.787±0.007	0.786±0.007	0.005±0.006	0.049±0.004
12.8	-3.7±0.3	0.4±0.4	-0.49±0.01	-1.13±0.02	0.797±0.007	0.796±0.007	0.006±0.006	0.051±0.004
13.8	-3.8±0.3	0.4±0.4	-0.48±0.01	-1.13±0.02	0.804±0.007	0.802±0.007	0.006±0.005	0.054±0.004
16.4	-4.0±0.3	0.4±0.4	-0.47±0.01	-1.14±0.02	0.819±0.007	0.817±0.007	0.006±0.005	0.057±0.005
18.9	-4.2±0.3	0.5±0.4	-0.44±0.01	-1.14±0.02	0.836±0.007	0.833±0.007	0.007±0.005	0.061±0.005
21.4	-4.4±0.3	0.5±0.4	-0.42±0.01	-1.13±0.02	0.844±0.007	0.841±0.007	0.007±0.005	0.064±0.005
24.0	-4.5±0.3	0.5±0.3	-0.40±0.01	-1.14±0.02	0.860±0.007	0.857±0.007	0.007±0.005	0.067±0.005
26.5	-4.6±0.3	0.4±0.3	-0.38±0.01	-1.14±0.02	0.876±0.006	0.873±0.006	0.007±0.005	0.070±0.005
29.1	-4.6±0.3	0.4±0.3	-0.36±0.01	-1.14±0.02	0.882±0.006	0.879±0.006	0.007±0.005	0.071±0.005
31.6	-4.7±0.3	0.5±0.3	-0.33±0.01	-1.13±0.02	0.894±0.006	0.891±0.006	0.007±0.005	0.073±0.005
34.1	-4.8±0.3	0.5±0.3	-0.31±0.01	-1.14±0.02	0.907±0.006	0.904±0.006	0.007±0.005	0.076±0.005
36.7	-4.8±0.3	0.5±0.3	-0.28±0.01	-1.12±0.02	0.916±0.006	0.913±0.006	0.007±0.005	0.077±0.005
39.2	-4.8±0.3	0.5±0.3	-0.28±0.01	-1.14±0.02	0.926±0.006	0.922±0.006	0.007±0.005	0.077±0.005
44.3	-4.8±0.3	0.5±0.3	-0.23±0.01	-1.13±0.02	0.950±0.006	0.946±0.006	0.009±0.005	0.080±0.005
49.4	-4.9±0.3	0.4±0.3	-0.19±0.01	-1.11±0.02	0.959±0.006	0.956±0.006	0.007±0.005	0.082±0.005
54.5	-5.0±0.3	0.5±0.3	-0.15±0.01	-1.11±0.02	0.982±0.006	0.978±0.006	0.008±0.004	0.085±0.005
59.5	-4.9±0.3	0.4±0.3	-0.12±0.01	-1.12±0.02	0.999±0.006	0.995±0.006	0.007±0.004	0.085±0.006
64.6	-4.9±0.3	0.4±0.2	-0.10±0.01	-1.12±0.02	1.010±0.006	1.006±0.006	0.007±0.004	0.087±0.006
69.7	-4.9±0.3	0.4±0.2	-0.08±0.01	-1.12±0.02	1.024±0.007	1.020±0.007	0.007±0.004	0.087±0.006
74.8	-4.8±0.3	0.4±0.2	-0.04±0.01	-1.12±0.02	1.037±0.007	1.033±0.007	0.007±0.004	0.087±0.006
79.9	-4.8±0.3	0.3±0.2	-0.02±0.01	-1.11±0.02	1.042±0.007	1.039±0.007	0.006±0.004	0.087±0.006
84.9	-4.8±0.3	0.3±0.2	-0.01±0.01	-1.11±0.02	1.048±0.007	1.045±0.007	0.006±0.004	0.087±0.006
90.0	-4.7±0.3	0.2±0.2	0.00±0.01	-1.11±0.02	1.053±0.007	1.049±0.007	0.004±0.004	0.086±0.006
100.2	-4.6±0.3	0.1±0.2	0.01±0.01	-1.10±0.02	1.054±0.007	1.051±0.007	0.003±0.004	0.085±0.006
110.3	-4.5±0.3	0.0±0.2	0.01±0.01	-1.10±0.02	1.055±0.007	1.052±0.007	0.001±0.004	0.083±0.006
120.5	-4.4±0.3	-0.1±0.2	0.01±0.01	-1.10±0.02	1.055±0.007	1.051±0.007	-0.001±0.004	0.081±0.006
130.7	-4.4±0.3	-0.1±0.2	0.01±0.01	-1.10±0.02	1.054±0.007	1.051±0.007	-0.001±0.004	0.081±0.006
140.8	-4.3±0.3	-0.2±0.2	0.01±0.01	-1.11±0.02	1.055±0.007	1.052±0.007	-0.003±0.004	0.079±0.006

Table B.293 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-38 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.0±0.3	0.9±0.7	-0.76±0.01	-1.12±0.02	0.603±0.008	0.602±0.008	0.010±0.007	0.032±0.003
4.7	-3.4±0.3	0.3±0.6	-0.72±0.01	-1.14±0.02	0.643±0.007	0.642±0.007	0.003±0.007	0.038±0.004
5.7	-3.5±0.3	0.3±0.6	-0.67±0.01	-1.13±0.02	0.678±0.007	0.677±0.007	0.003±0.007	0.041±0.004
6.7	-3.6±0.3	0.1±0.5	-0.62±0.01	-1.13±0.02	0.712±0.007	0.710±0.007	0.001±0.006	0.045±0.004
7.7	-3.8±0.3	0.1±0.5	-0.59±0.01	-1.13±0.02	0.737±0.007	0.735±0.007	0.001±0.006	0.049±0.004
8.7	-3.9±0.3	0.2±0.4	-0.56±0.01	-1.12±0.02	0.751±0.007	0.749±0.007	0.002±0.006	0.051±0.004
9.8	-3.9±0.3	0.3±0.4	-0.53±0.01	-1.12±0.02	0.770±0.007	0.768±0.007	0.004±0.006	0.053±0.004
10.8	-4.0±0.3	0.3±0.4	-0.52±0.01	-1.13±0.02	0.778±0.007	0.776±0.007	0.005±0.006	0.054±0.004
11.8	-4.0±0.3	0.3±0.4	-0.50±0.01	-1.14±0.02	0.797±0.007	0.795±0.007	0.005±0.006	0.056±0.004
12.8	-4.2±0.3	0.4±0.4	-0.49±0.01	-1.14±0.02	0.808±0.007	0.806±0.007	0.006±0.005	0.059±0.004
13.8	-4.3±0.3	0.4±0.4	-0.46±0.01	-1.11±0.02	0.808±0.007	0.805±0.007	0.006±0.005	0.060±0.004
16.4	-4.4±0.3	0.5±0.4	-0.45±0.01	-1.13±0.02	0.824±0.007	0.822±0.007	0.007±0.005	0.064±0.005
18.9	-4.6±0.3	0.4±0.4	-0.43±0.01	-1.13±0.02	0.837±0.007	0.835±0.007	0.006±0.005	0.067±0.005
21.4	-4.7±0.3	0.4±0.3	-0.42±0.01	-1.14±0.02	0.852±0.007	0.849±0.007	0.007±0.005	0.070±0.005
24.0	-4.9±0.3	0.4±0.3	-0.39±0.01	-1.13±0.02	0.859±0.007	0.856±0.006	0.006±0.005	0.074±0.005
26.5	-5.0±0.3	0.4±0.3	-0.37±0.01	-1.13±0.02	0.874±0.006	0.871±0.006	0.006±0.005	0.076±0.005
29.1	-5.0±0.3	0.4±0.3	-0.34±0.01	-1.13±0.02	0.886±0.006	0.882±0.006	0.006±0.005	0.078±0.005
31.6	-5.1±0.3	0.4±0.3	-0.31±0.01	-1.11±0.02	0.893±0.006	0.890±0.006	0.006±0.005	0.079±0.005
34.1	-5.1±0.3	0.4±0.3	-0.31±0.01	-1.13±0.02	0.910±0.006	0.906±0.006	0.006±0.005	0.081±0.005
36.7	-5.2±0.3	0.4±0.3	-0.28±0.01	-1.12±0.02	0.917±0.006	0.913±0.006	0.006±0.005	0.083±0.005
39.2	-5.2±0.3	0.4±0.3	-0.26±0.01	-1.11±0.02	0.922±0.006	0.918±0.006	0.006±0.005	0.083±0.005
44.3	-5.2±0.3	0.4±0.3	-0.23±0.01	-1.12±0.02	0.943±0.006	0.940±0.006	0.006±0.005	0.086±0.005
49.4	-5.3±0.3	0.4±0.3	-0.19±0.01	-1.13±0.02	0.966±0.006	0.962±0.006	0.006±0.005	0.089±0.005
54.5	-5.3±0.3	0.4±0.3	-0.15±0.01	-1.11±0.02	0.983±0.006	0.978±0.006	0.006±0.004	0.090±0.005
59.5	-5.3±0.3	0.4±0.3	-0.12±0.01	-1.11±0.02	1.000±0.006	0.995±0.006	0.006±0.004	0.093±0.006
64.6	-5.3±0.3	0.4±0.2	-0.09±0.01	-1.11±0.02	1.010±0.006	1.006±0.006	0.006±0.004	0.093±0.006
69.7	-5.3±0.3	0.3±0.2	-0.06±0.01	-1.10±0.02	1.022±0.007	1.017±0.006	0.006±0.004	0.094±0.006
74.8	-5.2±0.3	0.3±0.2	-0.04±0.01	-1.11±0.02	1.033±0.007	1.029±0.007	0.005±0.004	0.094±0.006
79.9	-5.2±0.3	0.2±0.2	-0.02±0.01	-1.10±0.02	1.039±0.007	1.035±0.007	0.003±0.004	0.094±0.006
84.9	-5.1±0.3	0.1±0.2	-0.01±0.01	-1.10±0.02	1.047±0.007	1.043±0.007	0.003±0.004	0.094±0.006
90.0	-5.1±0.3	0.1±0.2	0.00±0.01	-1.10±0.02	1.049±0.007	1.045±0.007	0.001±0.004	0.093±0.006
100.2	-4.9±0.3	0.0±0.2	0.01±0.01	-1.10±0.02	1.051±0.007	1.047±0.007	0.000±0.004	0.091±0.006
110.3	-4.8±0.3	-0.1±0.2	0.01±0.01	-1.10±0.02	1.051±0.007	1.047±0.007	-0.001±0.004	0.089±0.006
120.5	-4.8±0.3	-0.1±0.2	0.01±0.01	-1.10±0.02	1.051±0.007	1.047±0.007	-0.002±0.004	0.087±0.006
130.7	-4.7±0.3	-0.3±0.2	0.01±0.01	-1.10±0.02	1.051±0.007	1.048±0.007	-0.005±0.004	0.086±0.006
140.8	-4.6±0.3	-0.3±0.2	0.01±0.01	-1.10±0.02	1.052±0.007	1.048±0.007	-0.005±0.004	0.084±0.006

Table B.294 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-32 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-2.9±0.3	1.2±0.7	-0.76±0.01	-1.10±0.02	0.584±0.008	0.583±0.008	0.012±0.008	0.030±0.003
4.7	-3.4±0.3	0.4±0.6	-0.71±0.01	-1.11±0.02	0.631±0.007	0.630±0.007	0.005±0.007	0.037±0.004
5.7	-3.8±0.3	0.3±0.6	-0.66±0.01	-1.10±0.02	0.661±0.007	0.660±0.007	0.004±0.007	0.043±0.004
6.7	-4.0±0.3	0.3±0.5	-0.62±0.01	-1.11±0.02	0.701±0.007	0.699±0.007	0.003±0.006	0.048±0.004
7.7	-4.1±0.3	0.2±0.5	-0.58±0.01	-1.10±0.02	0.722±0.007	0.720±0.007	0.003±0.006	0.052±0.004
8.7	-4.1±0.3	0.3±0.5	-0.54±0.01	-1.09±0.02	0.745±0.007	0.743±0.007	0.004±0.006	0.054±0.004
9.8	-4.2±0.3	0.3±0.4	-0.53±0.01	-1.11±0.02	0.765±0.007	0.763±0.007	0.005±0.006	0.056±0.004
10.8	-4.3±0.3	0.3±0.4	-0.50±0.01	-1.10±0.02	0.777±0.007	0.775±0.007	0.005±0.006	0.059±0.004
11.8	-4.4±0.3	0.3±0.4	-0.49±0.01	-1.12±0.02	0.792±0.007	0.789±0.007	0.005±0.006	0.060±0.004
12.8	-4.4±0.3	0.3±0.4	-0.46±0.01	-1.10±0.02	0.798±0.007	0.796±0.007	0.005±0.006	0.061±0.004
13.8	-4.4±0.3	0.3±0.4	-0.46±0.01	-1.10±0.02	0.803±0.007	0.800±0.007	0.005±0.005	0.062±0.004
16.4	-4.6±0.3	0.4±0.4	-0.43±0.01	-1.09±0.02	0.812±0.007	0.810±0.007	0.006±0.005	0.065±0.005
18.9	-4.8±0.3	0.4±0.4	-0.42±0.01	-1.12±0.02	0.834±0.007	0.831±0.007	0.005±0.005	0.070±0.005
21.4	-4.9±0.3	0.4±0.4	-0.39±0.01	-1.10±0.02	0.843±0.007	0.840±0.007	0.006±0.005	0.072±0.005
24.0	-4.9±0.3	0.4±0.3	-0.36±0.01	-1.10±0.02	0.855±0.007	0.852±0.006	0.005±0.005	0.074±0.005
26.5	-5.0±0.3	0.3±0.3	-0.34±0.01	-1.09±0.02	0.866±0.006	0.863±0.006	0.005±0.005	0.076±0.005
29.1	-5.1±0.3	0.3±0.3	-0.33±0.01	-1.10±0.02	0.879±0.006	0.875±0.006	0.005±0.005	0.078±0.005
31.6	-5.1±0.3	0.3±0.3	-0.30±0.01	-1.09±0.02	0.888±0.006	0.885±0.006	0.005±0.005	0.079±0.005
34.1	-5.1±0.3	0.3±0.3	-0.28±0.01	-1.09±0.02	0.899±0.006	0.895±0.006	0.005±0.005	0.080±0.005
36.7	-5.2±0.3	0.3±0.3	-0.27±0.01	-1.09±0.02	0.907±0.006	0.904±0.006	0.004±0.005	0.083±0.005
39.2	-5.2±0.3	0.3±0.3	-0.24±0.01	-1.08±0.02	0.915±0.006	0.911±0.006	0.005±0.005	0.083±0.005
44.3	-5.3±0.3	0.2±0.3	-0.21±0.01	-1.09±0.02	0.938±0.006	0.934±0.006	0.003±0.005	0.086±0.005
49.4	-5.3±0.3	0.1±0.3	-0.17±0.01	-1.08±0.02	0.954±0.006	0.950±0.006	0.002±0.005	0.088±0.005
54.5	-5.3±0.3	0.1±0.3	-0.14±0.01	-1.08±0.02	0.969±0.006	0.965±0.006	0.002±0.005	0.090±0.005
59.5	-5.3±0.3	0.2±0.3	-0.11±0.01	-1.07±0.02	0.982±0.006	0.978±0.006	0.003±0.004	0.091±0.005
64.6	-5.3±0.3	0.1±0.3	-0.08±0.01	-1.08±0.02	0.997±0.006	0.993±0.006	0.002±0.004	0.092±0.006
69.7	-5.3±0.3	0.1±0.2	-0.06±0.01	-1.08±0.02	1.007±0.006	1.003±0.006	0.002±0.004	0.093±0.006
74.8	-5.2±0.3	0.0±0.2	-0.03±0.01	-1.07±0.02	1.017±0.006	1.013±0.006	0.001±0.004	0.093±0.006
79.9	-5.2±0.3	0.0±0.2	-0.01±0.01	-1.07±0.02	1.026±0.007	1.022±0.006	-0.001±0.004	0.092±0.006
84.9	-5.1±0.3	-0.1±0.2	-0.01±0.01	-1.07±0.02	1.030±0.007	1.026±0.007	-0.002±0.004	0.092±0.006
90.0	-5.1±0.3	-0.1±0.2	0.00±0.01	-1.06±0.02	1.032±0.007	1.028±0.007	-0.002±0.004	0.091±0.006
100.2	-4.9±0.3	-0.1±0.2	0.01±0.01	-1.06±0.02	1.034±0.007	1.030±0.007	-0.002±0.004	0.089±0.006
110.3	-4.9±0.3	-0.3±0.2	0.01±0.01	-1.06±0.02	1.033±0.007	1.030±0.007	-0.005±0.004	0.088±0.006
120.5	-4.8±0.3	-0.3±0.2	0.01±0.01	-1.06±0.02	1.034±0.007	1.030±0.007	-0.006±0.004	0.086±0.006
130.7	-4.6±0.3	-0.3±0.2	0.01±0.01	-1.06±0.02	1.034±0.007	1.031±0.007	-0.006±0.004	0.084±0.006
140.8	-4.6±0.3	-0.5±0.2	0.01±0.01	-1.06±0.02	1.035±0.007	1.032±0.007	-0.008±0.004	0.082±0.006

Table B.295 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-25 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-3.6±0.3	1.0±0.8	-0.78±0.01	-1.09±0.02	0.557±0.008	0.556±0.008	0.010±0.008	0.035±0.003
4.7	-4.2±0.3	0.3±0.7	-0.72±0.01	-1.10±0.02	0.613±0.008	0.612±0.007	0.003±0.007	0.045±0.003
5.7	-4.5±0.3	0.1±0.6	-0.68±0.01	-1.10±0.02	0.651±0.007	0.649±0.007	0.001±0.007	0.051±0.004
6.7	-4.7±0.3	-0.1±0.5	-0.63±0.01	-1.11±0.02	0.693±0.007	0.691±0.007	-0.002±0.006	0.057±0.004
7.7	-5.0±0.3	-0.1±0.5	-0.59±0.01	-1.11±0.02	0.717±0.007	0.714±0.007	-0.001±0.006	0.062±0.004
8.7	-5.1±0.3	-0.1±0.5	-0.56±0.01	-1.11±0.02	0.741±0.007	0.738±0.007	-0.001±0.006	0.065±0.004
9.8	-5.1±0.3	0.0±0.4	-0.53±0.01	-1.12±0.02	0.767±0.007	0.764±0.007	-0.001±0.006	0.068±0.004
10.8	-5.2±0.3	0.0±0.4	-0.50±0.01	-1.10±0.02	0.775±0.007	0.772±0.007	0.000±0.006	0.070±0.004
11.8	-5.2±0.3	0.0±0.4	-0.48±0.01	-1.10±0.02	0.790±0.007	0.787±0.007	0.000±0.006	0.072±0.004
12.8	-5.2±0.3	0.1±0.4	-0.46±0.01	-1.11±0.02	0.806±0.007	0.802±0.007	0.001±0.005	0.073±0.004
13.8	-5.3±0.3	0.1±0.4	-0.44±0.01	-1.09±0.02	0.808±0.007	0.804±0.007	0.001±0.005	0.075±0.004
16.4	-5.4±0.3	0.1±0.4	-0.41±0.01	-1.09±0.02	0.828±0.007	0.824±0.007	0.001±0.005	0.077±0.005
18.9	-5.5±0.3	0.0±0.4	-0.40±0.01	-1.11±0.02	0.843±0.007	0.839±0.006	0.000±0.005	0.080±0.005
21.4	-5.5±0.3	0.0±0.4	-0.37±0.01	-1.09±0.02	0.846±0.006	0.842±0.006	0.000±0.005	0.081±0.005
24.0	-5.5±0.3	0.0±0.3	-0.36±0.01	-1.10±0.02	0.863±0.006	0.859±0.006	0.000±0.005	0.083±0.005
26.5	-5.6±0.3	0.0±0.3	-0.33±0.01	-1.09±0.02	0.873±0.006	0.869±0.006	0.000±0.005	0.085±0.005
29.1	-5.6±0.3	-0.1±0.3	-0.30±0.01	-1.09±0.02	0.888±0.006	0.884±0.006	-0.002±0.005	0.087±0.005
31.6	-5.6±0.3	-0.2±0.3	-0.29±0.01	-1.09±0.02	0.894±0.006	0.890±0.006	-0.002±0.005	0.087±0.005
34.1	-5.6±0.3	-0.2±0.3	-0.27±0.01	-1.09±0.02	0.905±0.006	0.900±0.006	-0.003±0.005	0.089±0.005
36.7	-5.6±0.3	-0.2±0.3	-0.25±0.01	-1.08±0.02	0.913±0.006	0.908±0.006	-0.002±0.005	0.090±0.005
39.2	-5.7±0.3	-0.2±0.3	-0.23±0.01	-1.08±0.02	0.925±0.006	0.921±0.006	-0.003±0.005	0.092±0.005
44.3	-5.7±0.3	-0.2±0.3	-0.20±0.01	-1.09±0.02	0.942±0.006	0.937±0.006	-0.003±0.005	0.093±0.005
49.4	-5.8±0.3	-0.2±0.3	-0.16±0.01	-1.07±0.02	0.957±0.006	0.952±0.006	-0.003±0.005	0.096±0.005
54.5	-5.7±0.3	-0.2±0.3	-0.12±0.01	-1.07±0.02	0.974±0.006	0.969±0.006	-0.003±0.004	0.097±0.005
59.5	-5.7±0.3	-0.2±0.3	-0.10±0.01	-1.08±0.02	0.990±0.006	0.985±0.006	-0.003±0.004	0.099±0.005
64.6	-5.7±0.3	-0.2±0.3	-0.07±0.01	-1.06±0.02	0.995±0.006	0.990±0.006	-0.004±0.004	0.099±0.006
69.7	-5.7±0.3	-0.4±0.2	-0.04±0.01	-1.05±0.02	1.005±0.006	1.000±0.006	-0.006±0.004	0.100±0.006
74.8	-5.6±0.3	-0.3±0.2	-0.03±0.01	-1.06±0.02	1.018±0.006	1.013±0.006	-0.006±0.004	0.099±0.006
79.9	-5.5±0.3	-0.3±0.2	-0.01±0.01	-1.06±0.02	1.022±0.006	1.017±0.006	-0.006±0.004	0.099±0.006
84.9	-5.5±0.3	-0.3±0.2	0.00±0.01	-1.05±0.02	1.025±0.006	1.021±0.006	-0.006±0.004	0.098±0.006
90.0	-5.4±0.3	-0.3±0.2	0.00±0.01	-1.05±0.02	1.027±0.006	1.022±0.006	-0.006±0.004	0.097±0.006
100.2	-5.3±0.3	-0.3±0.2	0.01±0.01	-1.05±0.02	1.029±0.006	1.024±0.006	-0.006±0.004	0.096±0.006
110.3	-5.3±0.3	-0.3±0.2	0.01±0.01	-1.05±0.02	1.029±0.006	1.024±0.006	-0.006±0.004	0.094±0.006
120.5	-5.1±0.3	-0.5±0.2	0.01±0.01	-1.05±0.02	1.029±0.006	1.025±0.006	-0.008±0.004	0.092±0.006
130.7	-5.0±0.3	-0.6±0.2	0.01±0.01	-1.05±0.02	1.030±0.006	1.026±0.006	-0.010±0.004	0.090±0.006
140.8	-4.9±0.3	-0.6±0.2	0.01±0.01	-1.05±0.02	1.031±0.006	1.027±0.006	-0.010±0.004	0.089±0.006

Table B.296 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-19 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-4.3±0.3	0.5±1.0	-0.83±0.01	-1.08±0.02	0.509±0.009	0.507±0.009	0.004±0.009	0.038±0.003
4.7	-5.1±0.3	-0.2±0.8	-0.77±0.01	-1.09±0.02	0.559±0.008	0.557±0.008	-0.002±0.008	0.049±0.003
5.7	-5.6±0.3	-0.4±0.7	-0.72±0.01	-1.09±0.02	0.603±0.008	0.600±0.008	-0.004±0.007	0.059±0.003
6.7	-5.9±0.3	-0.7±0.6	-0.68±0.01	-1.10±0.02	0.647±0.007	0.643±0.007	-0.008±0.007	0.066±0.004
7.7	-6.2±0.3	-0.8±0.5	-0.63±0.01	-1.11±0.02	0.688±0.007	0.684±0.007	-0.009±0.006	0.074±0.004
8.7	-6.3±0.3	-0.7±0.5	-0.58±0.01	-1.08±0.02	0.705±0.007	0.700±0.007	-0.009±0.006	0.077±0.004
9.8	-6.3±0.3	-0.6±0.5	-0.56±0.01	-1.11±0.02	0.742±0.007	0.737±0.007	-0.008±0.006	0.081±0.004
10.8	-6.2±0.3	-0.5±0.4	-0.53±0.01	-1.11±0.02	0.765±0.007	0.761±0.007	-0.007±0.006	0.083±0.004
11.8	-6.1±0.3	-0.5±0.4	-0.50±0.01	-1.11±0.02	0.784±0.007	0.780±0.007	-0.007±0.006	0.084±0.004
12.8	-6.1±0.3	-0.5±0.4	-0.45±0.01	-1.08±0.02	0.790±0.007	0.785±0.007	-0.007±0.006	0.085±0.004
13.8	-6.1±0.3	-0.5±0.4	-0.45±0.01	-1.09±0.02	0.796±0.007	0.791±0.007	-0.007±0.006	0.085±0.004
16.4	-6.1±0.3	-0.5±0.4	-0.41±0.01	-1.08±0.02	0.821±0.007	0.817±0.007	-0.007±0.005	0.088±0.005
18.9	-6.0±0.3	-0.6±0.4	-0.39±0.01	-1.10±0.02	0.841±0.007	0.836±0.007	-0.009±0.005	0.089±0.005
21.4	-6.0±0.3	-0.6±0.3	-0.35±0.01	-1.09±0.02	0.856±0.007	0.851±0.006	-0.009±0.005	0.090±0.005
24.0	-6.0±0.3	-0.6±0.3	-0.33±0.01	-1.08±0.02	0.866±0.006	0.861±0.006	-0.010±0.005	0.091±0.005
26.5	-6.0±0.3	-0.6±0.3	-0.31±0.01	-1.07±0.02	0.876±0.006	0.871±0.006	-0.009±0.005	0.091±0.005
29.1	-6.0±0.3	-0.7±0.3	-0.29±0.01	-1.08±0.02	0.890±0.006	0.885±0.006	-0.010±0.005	0.093±0.005
31.6	-6.0±0.3	-0.7±0.3	-0.27±0.01	-1.07±0.02	0.897±0.006	0.892±0.006	-0.011±0.005	0.094±0.005
34.1	-5.9±0.3	-0.8±0.3	-0.25±0.01	-1.07±0.02	0.910±0.006	0.905±0.006	-0.013±0.005	0.094±0.005
36.7	-5.9±0.3	-0.8±0.3	-0.24±0.01	-1.09±0.02	0.920±0.006	0.915±0.006	-0.013±0.005	0.095±0.005
39.2	-6.0±0.3	-0.8±0.3	-0.21±0.01	-1.07±0.02	0.923±0.006	0.918±0.006	-0.012±0.005	0.096±0.005
44.3	-5.9±0.3	-0.7±0.3	-0.18±0.01	-1.07±0.02	0.941±0.006	0.935±0.006	-0.012±0.005	0.097±0.005
49.4	-6.0±0.3	-0.7±0.3	-0.15±0.01	-1.06±0.02	0.954±0.006	0.949±0.006	-0.012±0.005	0.099±0.005
54.5	-5.9±0.3	-0.7±0.3	-0.12±0.01	-1.05±0.02	0.964±0.006	0.958±0.006	-0.012±0.005	0.100±0.005
59.5	-6.0±0.3	-0.7±0.3	-0.09±0.01	-1.05±0.02	0.977±0.006	0.972±0.006	-0.012±0.004	0.102±0.005
64.6	-6.0±0.3	-0.6±0.3	-0.07±0.01	-1.05±0.02	0.988±0.006	0.983±0.006	-0.011±0.004	0.103±0.005
69.7	-5.9±0.3	-0.6±0.3	-0.04±0.01	-1.04±0.02	0.999±0.006	0.994±0.006	-0.011±0.004	0.103±0.006
74.8	-5.9±0.3	-0.6±0.2	-0.02±0.01	-1.04±0.02	1.009±0.006	1.003±0.006	-0.011±0.004	0.104±0.006
79.9	-5.8±0.3	-0.6±0.2	-0.01±0.01	-1.04±0.02	1.013±0.006	1.008±0.006	-0.010±0.004	0.102±0.006
84.9	-5.7±0.3	-0.5±0.2	0.00±0.01	-1.04±0.02	1.017±0.006	1.012±0.006	-0.009±0.004	0.101±0.006
90.0	-5.6±0.3	-0.4±0.2	0.00±0.01	-1.03±0.02	1.018±0.006	1.014±0.006	-0.006±0.004	0.100±0.006
100.2	-5.6±0.3	-0.3±0.2	0.01±0.01	-1.03±0.02	1.020±0.006	1.015±0.006	-0.006±0.004	0.099±0.006
110.3	-5.5±0.3	-0.3±0.2	0.01±0.01	-1.03±0.02	1.020±0.006	1.015±0.006	-0.006±0.004	0.098±0.006
120.5	-5.5±0.3	-0.4±0.2	0.01±0.01	-1.03±0.02	1.020±0.006	1.016±0.006	-0.006±0.004	0.098±0.006
130.7	-5.3±0.3	-0.4±0.2	0.01±0.01	-1.04±0.02	1.022±0.006	1.018±0.006	-0.008±0.004	0.095±0.006
140.8	-5.3±0.3	-0.6±0.2	0.01±0.01	-1.04±0.02	1.022±0.007	1.018±0.006	-0.010±0.004	0.094±0.006

Table B.297 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(302 mm,-13 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-5.7±0.3	-0.8±1.3	-0.88±0.01	-1.07±0.02	0.438±0.010	0.436±0.010	-0.006±0.010	0.043±0.003
4.7	-6.5±0.3	-1.8±1.0	-0.83±0.01	-1.08±0.02	0.494±0.009	0.490±0.009	-0.015±0.009	0.056±0.003
5.7	-7.2±0.3	-2.0±0.9	-0.77±0.01	-1.07±0.02	0.545±0.008	0.541±0.008	-0.019±0.008	0.069±0.003
6.7	-7.5±0.3	-2.0±0.8	-0.74±0.01	-1.07±0.02	0.575±0.008	0.569±0.008	-0.020±0.008	0.075±0.003
7.7	-7.7±0.3	-2.0±0.7	-0.70±0.01	-1.07±0.02	0.606±0.008	0.600±0.008	-0.021±0.007	0.082±0.003
8.7	-7.7±0.3	-2.0±0.6	-0.67±0.01	-1.08±0.02	0.642±0.007	0.636±0.007	-0.022±0.007	0.086±0.004
9.8	-7.6±0.3	-2.1±0.6	-0.64±0.01	-1.06±0.02	0.646±0.007	0.640±0.007	-0.023±0.007	0.086±0.004
10.8	-7.6±0.3	-1.9±0.6	-0.62±0.01	-1.06±0.02	0.665±0.007	0.659±0.007	-0.022±0.007	0.088±0.004
11.8	-7.4±0.3	-1.9±0.6	-0.61±0.01	-1.07±0.02	0.679±0.007	0.673±0.007	-0.022±0.007	0.087±0.004
12.8	-7.4±0.3	-1.8±0.5	-0.58±0.01	-1.06±0.02	0.693±0.007	0.687±0.007	-0.021±0.006	0.089±0.004
13.8	-7.2±0.3	-1.6±0.5	-0.55±0.01	-1.07±0.02	0.718±0.007	0.713±0.007	-0.020±0.006	0.090±0.004
16.4	-7.1±0.3	-1.5±0.5	-0.51±0.01	-1.07±0.02	0.752±0.007	0.746±0.007	-0.019±0.006	0.093±0.004
18.9	-7.1±0.3	-1.3±0.4	-0.46±0.01	-1.08±0.02	0.790±0.007	0.783±0.007	-0.018±0.006	0.097±0.004
21.4	-7.0±0.3	-1.6±0.4	-0.41±0.01	-1.05±0.02	0.800±0.007	0.794±0.007	-0.022±0.006	0.097±0.004
24.0	-6.8±0.3	-1.5±0.4	-0.39±0.01	-1.07±0.02	0.824±0.007	0.818±0.007	-0.021±0.005	0.098±0.005
26.5	-6.7±0.3	-1.5±0.4	-0.36±0.01	-1.06±0.02	0.835±0.007	0.829±0.007	-0.022±0.005	0.098±0.005
29.1	-6.6±0.3	-1.6±0.4	-0.34±0.01	-1.06±0.02	0.847±0.007	0.841±0.007	-0.023±0.005	0.098±0.005
31.6	-6.5±0.3	-1.6±0.4	-0.32±0.01	-1.04±0.02	0.853±0.007	0.847±0.007	-0.024±0.005	0.097±0.005
34.1	-6.4±0.3	-1.6±0.3	-0.29±0.01	-1.04±0.02	0.865±0.007	0.860±0.007	-0.024±0.005	0.097±0.005
36.7	-6.4±0.3	-1.6±0.3	-0.27±0.01	-1.03±0.02	0.871±0.007	0.866±0.007	-0.024±0.005	0.097±0.005
39.2	-6.4±0.3	-1.6±0.3	-0.27±0.01	-1.03±0.02	0.873±0.007	0.868±0.007	-0.024±0.005	0.097±0.005
44.3	-6.4±0.3	-1.5±0.3	-0.24±0.01	-1.02±0.02	0.886±0.007	0.880±0.006	-0.024±0.005	0.098±0.005
49.4	-6.3±0.3	-1.4±0.3	-0.21±0.01	-1.02±0.02	0.900±0.006	0.894±0.006	-0.022±0.005	0.099±0.005
54.5	-6.3±0.3	-1.4±0.3	-0.19±0.01	-1.04±0.02	0.920±0.006	0.914±0.006	-0.022±0.005	0.100±0.005
59.5	-6.3±0.3	-1.3±0.3	-0.14±0.01	-1.01±0.02	0.930±0.006	0.925±0.006	-0.021±0.005	0.102±0.005
64.6	-6.3±0.3	-1.1±0.3	-0.14±0.01	-1.01±0.02	0.935±0.006	0.930±0.006	-0.018±0.005	0.103±0.005
69.7	-6.2±0.3	-1.0±0.3	-0.11±0.01	-1.01±0.02	0.945±0.006	0.939±0.006	-0.017±0.005	0.102±0.005
74.8	-6.2±0.3	-1.0±0.3	-0.09±0.01	-1.00±0.02	0.951±0.006	0.945±0.006	-0.017±0.005	0.103±0.005
79.9	-6.1±0.3	-0.9±0.3	-0.08±0.01	-0.99±0.02	0.956±0.006	0.951±0.006	-0.015±0.005	0.102±0.005
84.9	-6.0±0.3	-0.8±0.3	-0.10±0.01	-1.00±0.02	0.945±0.006	0.940±0.006	-0.012±0.005	0.099±0.005
90.0	-6.0±0.3	-0.5±0.3	-0.11±0.01	-1.00±0.02	0.945±0.006	0.940±0.006	-0.008±0.005	0.099±0.005
100.2	-6.0±0.3	-0.4±0.3	-0.09±0.01	-0.99±0.02	0.946±0.006	0.941±0.006	-0.007±0.005	0.099±0.005
110.3	-6.1±0.3	-0.5±0.3	-0.10±0.01	-1.00±0.02	0.946±0.006	0.941±0.006	-0.008±0.005	0.100±0.005
120.5	-6.1±0.3	-0.5±0.3	-0.09±0.01	-0.99±0.02	0.950±0.006	0.945±0.006	-0.008±0.005	0.100±0.005
130.7	-6.0±0.3	-0.6±0.3	-0.13±0.01	-1.00±0.02	0.933±0.006	0.928±0.006	-0.010±0.005	0.098±0.005
140.8	-5.9±0.3	-0.8±0.3	-0.16±0.01	-1.00±0.02	0.915±0.006	0.910±0.006	-0.013±0.005	0.094±0.005

Table B.298 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.9±0.3	0.5±0.5	-0.72±0.01	-1.21±0.02	0.703±0.007	0.703±0.007	0.006±0.006	0.023±0.004
4.7	-1.9±0.3	0.3±0.5	-0.68±0.01	-1.20±0.02	0.724±0.007	0.724±0.007	0.004±0.006	0.024±0.004
5.7	-1.8±0.3	0.1±0.5	-0.65±0.01	-1.20±0.02	0.742±0.007	0.742±0.007	0.001±0.006	0.023±0.004
6.7	-1.7±0.3	-0.1±0.4	-0.63±0.01	-1.21±0.02	0.761±0.007	0.761±0.007	-0.001±0.006	0.023±0.004
7.7	-1.7±0.3	-0.1±0.4	-0.61±0.01	-1.21±0.02	0.777±0.007	0.776±0.007	-0.001±0.006	0.023±0.004
8.7	-1.7±0.3	-0.1±0.4	-0.57±0.01	-1.20±0.02	0.794±0.007	0.793±0.007	-0.002±0.006	0.023±0.004
9.8	-1.6±0.3	-0.1±0.4	-0.56±0.01	-1.20±0.02	0.799±0.007	0.799±0.007	-0.001±0.006	0.023±0.004
10.8	-1.5±0.3	-0.1±0.4	-0.54±0.01	-1.21±0.02	0.813±0.007	0.813±0.007	-0.002±0.005	0.021±0.004
11.8	-1.5±0.3	-0.1±0.4	-0.53±0.01	-1.21±0.02	0.823±0.007	0.822±0.007	-0.001±0.005	0.022±0.005
12.8	-1.5±0.3	-0.3±0.4	-0.53±0.01	-1.22±0.02	0.828±0.007	0.828±0.007	-0.004±0.005	0.021±0.005
13.8	-1.5±0.3	-0.1±0.4	-0.51±0.01	-1.22±0.02	0.841±0.007	0.841±0.007	-0.002±0.005	0.021±0.005
16.4	-1.3±0.3	-0.2±0.3	-0.46±0.01	-1.19±0.02	0.855±0.007	0.855±0.007	-0.004±0.005	0.020±0.005
18.9	-1.3±0.3	-0.1±0.3	-0.45±0.01	-1.22±0.02	0.879±0.006	0.879±0.006	-0.002±0.005	0.020±0.005
21.4	-1.2±0.3	-0.1±0.3	-0.42±0.01	-1.21±0.02	0.888±0.006	0.888±0.006	-0.001±0.005	0.019±0.005
24.0	-1.3±0.3	0.0±0.3	-0.39±0.01	-1.20±0.02	0.899±0.006	0.899±0.006	0.000±0.005	0.020±0.005
26.5	-1.2±0.3	0.0±0.3	-0.37±0.01	-1.21±0.02	0.920±0.006	0.920±0.006	0.001±0.005	0.020±0.005
29.1	-1.2±0.3	0.0±0.3	-0.34±0.01	-1.20±0.02	0.929±0.006	0.929±0.006	0.000±0.005	0.020±0.005
31.6	-1.2±0.3	0.0±0.3	-0.32±0.01	-1.21±0.02	0.945±0.006	0.945±0.006	0.000±0.005	0.020±0.005
34.1	-1.2±0.3	0.1±0.3	-0.29±0.01	-1.21±0.02	0.958±0.006	0.957±0.006	0.002±0.005	0.020±0.005
36.7	-1.1±0.3	0.1±0.3	-0.27±0.01	-1.20±0.02	0.964±0.006	0.963±0.006	0.001±0.005	0.019±0.005
39.2	-1.2±0.3	0.1±0.3	-0.25±0.01	-1.20±0.02	0.972±0.006	0.972±0.006	0.002±0.005	0.020±0.005
44.3	-1.1±0.3	0.1±0.3	-0.21±0.01	-1.20±0.02	0.994±0.006	0.993±0.006	0.002±0.004	0.020±0.005
49.4	-1.2±0.3	0.1±0.2	-0.16±0.01	-1.20±0.02	1.017±0.006	1.017±0.006	0.002±0.004	0.021±0.006
54.5	-1.1±0.3	0.1±0.2	-0.13±0.01	-1.19±0.02	1.028±0.007	1.028±0.007	0.003±0.004	0.020±0.006
59.5	-1.1±0.3	0.2±0.2	-0.10±0.01	-1.20±0.02	1.052±0.007	1.052±0.007	0.003±0.004	0.020±0.006
64.6	-1.0±0.3	0.2±0.2	-0.06±0.01	-1.20±0.02	1.064±0.007	1.064±0.007	0.004±0.004	0.019±0.006
69.7	-1.0±0.3	0.2±0.2	-0.04±0.01	-1.19±0.02	1.076±0.007	1.075±0.007	0.005±0.004	0.019±0.006
74.8	-1.0±0.3	0.3±0.2	-0.02±0.01	-1.19±0.02	1.084±0.007	1.084±0.007	0.005±0.004	0.018±0.006
79.9	-1.0±0.3	0.4±0.2	-0.01±0.01	-1.20±0.02	1.092±0.007	1.092±0.007	0.007±0.004	0.019±0.006
84.9	-0.9±0.3	0.3±0.2	0.00±0.01	-1.20±0.02	1.096±0.007	1.096±0.007	0.006±0.004	0.018±0.006
90.0	-0.8±0.3	0.3±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.098±0.007	0.007±0.004	0.016±0.006
100.2	-0.8±0.3	0.3±0.2	0.01±0.01	-1.20±0.02	1.099±0.007	1.099±0.007	0.006±0.004	0.016±0.006
110.3	-0.8±0.3	0.3±0.2	0.01±0.01	-1.20±0.02	1.099±0.007	1.099±0.007	0.005±0.004	0.016±0.006
120.5	-0.8±0.3	0.3±0.2	0.01±0.01	-1.20±0.02	1.099±0.007	1.099±0.007	0.005±0.004	0.016±0.006
130.7	-0.7±0.3	0.2±0.2	0.01±0.01	-1.20±0.02	1.099±0.007	1.099±0.007	0.004±0.004	0.014±0.006
140.8	-0.8±0.3	0.2±0.2	0.01±0.01	-1.20±0.02	1.098±0.007	1.098±0.007	0.004±0.004	0.015±0.006

Table B.299 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.6±0.3	0.6±0.5	-0.73±0.01	-1.19±0.02	0.680±0.007	0.680±0.007	0.007±0.006	0.020±0.004
4.7	-1.6±0.3	0.3±0.5	-0.70±0.01	-1.20±0.02	0.706±0.007	0.706±0.007	0.004±0.006	0.020±0.004
5.7	-1.6±0.3	0.3±0.5	-0.67±0.01	-1.20±0.02	0.723±0.007	0.723±0.007	0.003±0.006	0.020±0.004
6.7	-1.5±0.3	0.0±0.5	-0.65±0.01	-1.20±0.02	0.745±0.007	0.745±0.007	0.000±0.006	0.020±0.004
7.7	-1.5±0.3	-0.1±0.4	-0.62±0.01	-1.19±0.02	0.758±0.007	0.758±0.007	-0.001±0.006	0.020±0.004
8.7	-1.5±0.3	-0.1±0.4	-0.60±0.01	-1.19±0.02	0.769±0.007	0.769±0.007	-0.001±0.006	0.020±0.004
9.8	-1.5±0.3	-0.1±0.4	-0.58±0.01	-1.19±0.02	0.781±0.007	0.781±0.007	-0.001±0.006	0.021±0.004
10.8	-1.4±0.3	-0.1±0.4	-0.57±0.01	-1.20±0.02	0.794±0.007	0.794±0.007	-0.001±0.006	0.019±0.004
11.8	-1.4±0.3	0.0±0.4	-0.55±0.01	-1.20±0.02	0.805±0.007	0.805±0.007	0.000±0.005	0.020±0.004
12.8	-1.5±0.3	0.0±0.4	-0.53±0.01	-1.19±0.02	0.809±0.007	0.808±0.007	0.000±0.005	0.021±0.004
13.8	-1.4±0.3	0.0±0.4	-0.53±0.01	-1.20±0.02	0.819±0.007	0.819±0.007	0.000±0.005	0.019±0.005
16.4	-1.3±0.3	0.0±0.4	-0.48±0.01	-1.19±0.02	0.842±0.007	0.842±0.007	0.000±0.005	0.019±0.005
18.9	-1.2±0.3	0.0±0.3	-0.46±0.01	-1.20±0.02	0.861±0.007	0.861±0.007	0.000±0.005	0.018±0.005
21.4	-1.3±0.3	0.0±0.3	-0.44±0.01	-1.20±0.02	0.871±0.006	0.871±0.006	0.001±0.005	0.020±0.005
24.0	-1.3±0.3	0.0±0.3	-0.40±0.01	-1.20±0.02	0.891±0.006	0.891±0.006	0.001±0.005	0.020±0.005
26.5	-1.3±0.3	0.1±0.3	-0.38±0.01	-1.19±0.02	0.899±0.006	0.899±0.006	0.001±0.005	0.021±0.005
29.1	-1.4±0.3	0.1±0.3	-0.36±0.01	-1.20±0.02	0.915±0.006	0.915±0.006	0.001±0.005	0.022±0.005
31.6	-1.3±0.3	0.1±0.3	-0.33±0.01	-1.19±0.02	0.928±0.006	0.927±0.006	0.002±0.005	0.022±0.005
34.1	-1.3±0.3	0.1±0.3	-0.31±0.01	-1.20±0.02	0.944±0.006	0.943±0.006	0.002±0.005	0.022±0.005
36.7	-1.3±0.3	0.1±0.3	-0.29±0.01	-1.20±0.02	0.954±0.006	0.954±0.006	0.002±0.005	0.022±0.005
39.2	-1.4±0.3	0.2±0.3	-0.27±0.01	-1.20±0.02	0.964±0.006	0.964±0.006	0.003±0.005	0.023±0.005
44.3	-1.3±0.3	0.1±0.3	-0.23±0.01	-1.21±0.02	0.989±0.006	0.988±0.006	0.002±0.004	0.023±0.005
49.4	-1.3±0.3	0.2±0.2	-0.18±0.01	-1.20±0.02	1.009±0.006	1.009±0.006	0.003±0.004	0.023±0.006
54.5	-1.3±0.3	0.2±0.2	-0.14±0.01	-1.18±0.02	1.020±0.006	1.020±0.006	0.004±0.004	0.023±0.006
59.5	-1.3±0.3	0.2±0.2	-0.11±0.01	-1.19±0.02	1.039±0.007	1.039±0.007	0.004±0.004	0.023±0.006
64.6	-1.2±0.3	0.2±0.2	-0.07±0.01	-1.19±0.02	1.054±0.007	1.054±0.007	0.004±0.004	0.022±0.006
69.7	-1.2±0.3	0.3±0.2	-0.05±0.01	-1.19±0.02	1.069±0.007	1.069±0.007	0.006±0.004	0.022±0.006
74.8	-1.1±0.3	0.3±0.2	-0.02±0.01	-1.19±0.02	1.082±0.007	1.081±0.007	0.006±0.004	0.021±0.006
79.9	-1.1±0.3	0.4±0.2	-0.01±0.01	-1.19±0.02	1.087±0.007	1.087±0.007	0.007±0.004	0.022±0.006
84.9	-1.1±0.3	0.4±0.2	0.00±0.01	-1.19±0.02	1.092±0.007	1.092±0.007	0.007±0.004	0.022±0.006
90.0	-1.1±0.3	0.3±0.2	0.01±0.01	-1.19±0.02	1.095±0.007	1.094±0.007	0.006±0.004	0.022±0.006
100.2	-1.1±0.3	0.3±0.2	0.01±0.01	-1.19±0.02	1.096±0.007	1.096±0.007	0.006±0.004	0.021±0.006
110.3	-1.0±0.3	0.2±0.2	0.01±0.01	-1.19±0.02	1.097±0.007	1.096±0.007	0.004±0.004	0.020±0.006
120.5	-1.0±0.3	0.2±0.2	0.01±0.01	-1.19±0.02	1.096±0.007	1.096±0.007	0.003±0.004	0.019±0.006
130.7	-0.9±0.3	0.1±0.2	0.01±0.01	-1.19±0.02	1.096±0.007	1.096±0.007	0.002±0.004	0.018±0.006
140.8	-0.9±0.3	0.1±0.2	0.01±0.01	-1.19±0.02	1.096±0.007	1.096±0.007	0.002±0.004	0.018±0.006

Table B.300 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.1±0.3	0.6±0.6	-0.73±0.01	-1.19±0.02	0.679±0.007	0.679±0.007	0.007±0.007	0.013±0.004
4.7	-0.9±0.3	0.3±0.5	-0.70±0.01	-1.19±0.02	0.703±0.007	0.703±0.007	0.004±0.006	0.011±0.004
5.7	-1.0±0.3	0.1±0.5	-0.67±0.01	-1.19±0.02	0.726±0.007	0.726±0.007	0.001±0.006	0.012±0.004
6.7	-0.9±0.3	-0.1±0.5	-0.64±0.01	-1.19±0.02	0.742±0.007	0.742±0.007	-0.001±0.006	0.011±0.004
7.7	-0.9±0.3	-0.1±0.4	-0.61±0.01	-1.19±0.02	0.757±0.007	0.757±0.007	-0.001±0.006	0.013±0.004
8.7	-0.9±0.3	-0.1±0.4	-0.59±0.01	-1.19±0.02	0.772±0.007	0.772±0.007	-0.001±0.006	0.012±0.004
9.8	-0.9±0.3	-0.1±0.4	-0.57±0.01	-1.19±0.02	0.785±0.007	0.785±0.007	-0.001±0.006	0.013±0.004
10.8	-0.9±0.3	-0.1±0.4	-0.56±0.01	-1.19±0.02	0.796±0.007	0.796±0.007	-0.001±0.006	0.013±0.004
11.8	-0.8±0.3	-0.1±0.4	-0.53±0.01	-1.19±0.02	0.810±0.007	0.810±0.007	-0.001±0.005	0.011±0.004
12.8	-0.8±0.3	-0.1±0.4	-0.52±0.01	-1.19±0.02	0.817±0.007	0.817±0.007	-0.001±0.005	0.011±0.005
13.8	-0.9±0.3	-0.1±0.4	-0.51±0.01	-1.18±0.02	0.822±0.007	0.822±0.007	-0.001±0.005	0.013±0.005
16.4	-0.8±0.3	0.0±0.4	-0.48±0.01	-1.19±0.02	0.843±0.007	0.843±0.007	-0.001±0.005	0.012±0.005
18.9	-0.8±0.3	0.0±0.3	-0.45±0.01	-1.19±0.02	0.862±0.007	0.862±0.007	0.000±0.005	0.012±0.005
21.4	-0.8±0.3	0.0±0.3	-0.42±0.01	-1.18±0.02	0.871±0.007	0.871±0.007	0.000±0.005	0.012±0.005
24.0	-0.9±0.3	0.0±0.3	-0.40±0.01	-1.19±0.02	0.887±0.006	0.887±0.006	0.000±0.005	0.014±0.005
26.5	-0.9±0.3	0.0±0.3	-0.37±0.01	-1.19±0.02	0.901±0.006	0.901±0.006	0.001±0.005	0.014±0.005
29.1	-0.9±0.3	0.1±0.3	-0.35±0.01	-1.19±0.02	0.917±0.006	0.917±0.006	0.002±0.005	0.014±0.005
31.6	-0.9±0.3	0.1±0.3	-0.33±0.01	-1.18±0.02	0.924±0.006	0.924±0.006	0.001±0.005	0.015±0.005
34.1	-0.9±0.3	0.1±0.3	-0.31±0.01	-1.19±0.02	0.940±0.006	0.940±0.006	0.001±0.005	0.014±0.005
36.7	-0.9±0.3	0.1±0.3	-0.27±0.01	-1.18±0.02	0.953±0.006	0.952±0.006	0.002±0.005	0.015±0.005
39.2	-0.9±0.3	0.1±0.3	-0.26±0.01	-1.19±0.02	0.964±0.006	0.964±0.006	0.002±0.005	0.015±0.005
44.3	-0.9±0.3	0.1±0.3	-0.22±0.01	-1.18±0.02	0.981±0.006	0.981±0.006	0.002±0.005	0.016±0.005
49.4	-0.9±0.3	0.2±0.3	-0.18±0.01	-1.18±0.02	1.000±0.007	1.000±0.007	0.003±0.004	0.015±0.006
54.5	-0.9±0.3	0.2±0.2	-0.14±0.01	-1.20±0.02	1.025±0.007	1.025±0.007	0.004±0.004	0.016±0.006
59.5	-0.9±0.3	0.3±0.2	-0.10±0.01	-1.18±0.02	1.037±0.007	1.037±0.007	0.005±0.004	0.016±0.006
64.6	-0.9±0.3	0.3±0.2	-0.07±0.01	-1.16±0.02	1.046±0.007	1.046±0.007	0.005±0.004	0.016±0.006
69.7	-0.8±0.3	0.3±0.2	-0.05±0.01	-1.19±0.02	1.066±0.007	1.066±0.007	0.005±0.004	0.015±0.006
74.8	-0.8±0.3	0.3±0.2	-0.02±0.01	-1.18±0.02	1.074±0.007	1.074±0.007	0.006±0.004	0.016±0.006
79.9	-0.8±0.3	0.3±0.2	-0.01±0.01	-1.18±0.02	1.083±0.007	1.083±0.007	0.006±0.004	0.016±0.006
84.9	-0.8±0.3	0.2±0.2	0.00±0.01	-1.18±0.02	1.087±0.007	1.087±0.007	0.004±0.004	0.015±0.006
90.0	-0.8±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.004±0.004	0.015±0.006
100.2	-0.8±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.090±0.007	0.003±0.004	0.015±0.006
110.3	-0.7±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.003±0.004	0.013±0.006
120.5	-0.6±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.003±0.004	0.011±0.006
130.7	-0.6±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.003±0.004	0.011±0.006
140.8	-0.6±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.003±0.004	0.011±0.006

Table B.301 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.8±0.3	0.6±0.6	-0.73±0.01	-1.17±0.02	0.664±0.007	0.664±0.007	0.007±0.007	0.009±0.004
4.7	-0.8±0.3	0.3±0.5	-0.70±0.01	-1.18±0.02	0.690±0.007	0.690±0.007	0.004±0.006	0.009±0.004
5.7	-0.8±0.3	0.2±0.5	-0.68±0.01	-1.18±0.02	0.708±0.007	0.708±0.007	0.002±0.006	0.010±0.004
6.7	-0.8±0.3	-0.1±0.5	-0.65±0.01	-1.18±0.02	0.726±0.007	0.726±0.007	-0.001±0.006	0.010±0.004
7.7	-0.8±0.3	-0.1±0.5	-0.63±0.01	-1.18±0.02	0.742±0.007	0.741±0.007	-0.002±0.006	0.010±0.004
8.7	-0.8±0.3	-0.1±0.4	-0.60±0.01	-1.17±0.02	0.755±0.007	0.755±0.007	-0.002±0.006	0.011±0.004
9.8	-0.8±0.3	-0.1±0.4	-0.59±0.01	-1.18±0.02	0.766±0.007	0.766±0.007	-0.002±0.006	0.010±0.004
10.8	-0.7±0.3	-0.1±0.4	-0.57±0.01	-1.18±0.02	0.778±0.007	0.778±0.007	-0.001±0.006	0.009±0.004
11.8	-0.7±0.3	-0.1±0.4	-0.55±0.01	-1.18±0.02	0.789±0.007	0.789±0.007	-0.001±0.006	0.009±0.004
12.8	-0.6±0.3	-0.1±0.4	-0.54±0.01	-1.18±0.02	0.801±0.007	0.801±0.007	-0.001±0.006	0.009±0.004
13.8	-0.5±0.3	0.0±0.4	-0.52±0.01	-1.18±0.02	0.811±0.007	0.811±0.007	-0.001±0.005	0.008±0.004
16.4	-0.5±0.3	0.0±0.4	-0.49±0.01	-1.18±0.02	0.828±0.007	0.828±0.007	0.000±0.005	0.008±0.005
18.9	-0.5±0.3	0.0±0.4	-0.46±0.01	-1.18±0.02	0.844±0.007	0.844±0.007	0.000±0.005	0.007±0.005
21.4	-0.6±0.3	0.0±0.3	-0.44±0.01	-1.18±0.02	0.862±0.007	0.862±0.007	0.000±0.005	0.009±0.005
24.0	-0.6±0.3	0.1±0.3	-0.41±0.01	-1.18±0.02	0.879±0.007	0.879±0.007	0.001±0.005	0.009±0.005
26.5	-0.6±0.3	0.1±0.3	-0.39±0.01	-1.18±0.02	0.889±0.007	0.889±0.007	0.001±0.005	0.010±0.005
29.1	-0.7±0.3	0.1±0.3	-0.36±0.01	-1.18±0.02	0.906±0.007	0.906±0.007	0.002±0.005	0.011±0.005
31.6	-0.7±0.3	0.1±0.3	-0.34±0.01	-1.18±0.02	0.917±0.007	0.917±0.007	0.002±0.005	0.011±0.005
34.1	-0.7±0.3	0.2±0.3	-0.31±0.01	-1.18±0.02	0.931±0.007	0.931±0.006	0.003±0.005	0.011±0.005
36.7	-0.7±0.3	0.2±0.3	-0.29±0.01	-1.18±0.02	0.942±0.006	0.941±0.006	0.004±0.005	0.012±0.005
39.2	-0.7±0.3	0.3±0.3	-0.27±0.01	-1.18±0.02	0.953±0.007	0.953±0.006	0.004±0.005	0.012±0.005
44.3	-0.8±0.3	0.2±0.3	-0.23±0.01	-1.18±0.02	0.975±0.007	0.975±0.007	0.004±0.005	0.013±0.005
49.4	-0.8±0.3	0.4±0.3	-0.18±0.01	-1.18±0.02	0.997±0.007	0.996±0.007	0.006±0.004	0.014±0.006
54.5	-0.8±0.3	0.4±0.2	-0.15±0.01	-1.18±0.02	1.014±0.007	1.014±0.007	0.006±0.004	0.014±0.006
59.5	-0.8±0.3	0.3±0.2	-0.11±0.01	-1.18±0.02	1.031±0.007	1.031±0.007	0.006±0.004	0.014±0.006
64.6	-0.8±0.3	0.4±0.2	-0.07±0.01	-1.16±0.02	1.044±0.007	1.044±0.007	0.007±0.004	0.014±0.006
69.7	-0.8±0.3	0.4±0.2	-0.05±0.01	-1.17±0.02	1.060±0.007	1.059±0.007	0.007±0.004	0.015±0.006
74.8	-0.8±0.3	0.4±0.2	-0.03±0.01	-1.18±0.02	1.071±0.007	1.071±0.007	0.007±0.004	0.015±0.006
79.9	-0.8±0.3	0.3±0.2	-0.01±0.01	-1.17±0.02	1.076±0.007	1.076±0.007	0.007±0.004	0.015±0.006
84.9	-0.7±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.082±0.007	1.082±0.007	0.007±0.004	0.014±0.006
90.0	-0.7±0.3	0.3±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.006±0.004	0.013±0.006
100.2	-0.6±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	0.004±0.004	0.012±0.006
110.3	-0.5±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.003±0.004	0.010±0.006
120.5	-0.5±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.088±0.007	1.088±0.007	0.003±0.004	0.009±0.006
130.7	-0.5±0.3	0.1±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.002±0.004	0.010±0.006
140.8	-0.5±0.3	0.0±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	0.000±0.004	0.009±0.006

Table B.302 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.1±0.3	0.8±0.6	-0.77±0.01	-1.17±0.02	0.630±0.007	0.630±0.007	0.009±0.007	0.001±0.003
4.7	-0.4±0.3	0.4±0.6	-0.74±0.01	-1.18±0.02	0.663±0.007	0.663±0.007	0.005±0.007	0.004±0.004
5.7	-0.5±0.3	0.3±0.5	-0.71±0.01	-1.17±0.02	0.682±0.007	0.681±0.007	0.004±0.007	0.006±0.004
6.7	-0.6±0.3	0.0±0.5	-0.69±0.01	-1.18±0.02	0.699±0.007	0.699±0.007	0.000±0.006	0.008±0.004
7.7	-0.8±0.3	-0.1±0.5	-0.66±0.01	-1.17±0.02	0.717±0.007	0.717±0.007	-0.001±0.006	0.010±0.004
8.7	-0.8±0.3	0.0±0.5	-0.64±0.01	-1.19±0.02	0.738±0.007	0.738±0.007	0.000±0.006	0.010±0.004
9.8	-0.9±0.3	-0.1±0.5	-0.62±0.01	-1.18±0.02	0.751±0.007	0.751±0.007	-0.001±0.006	0.012±0.004
10.8	-0.9±0.3	0.0±0.4	-0.59±0.01	-1.17±0.02	0.762±0.007	0.761±0.007	0.000±0.006	0.012±0.004
11.8	-0.9±0.3	-0.1±0.4	-0.57±0.01	-1.17±0.02	0.775±0.007	0.775±0.007	-0.001±0.006	0.013±0.004
12.8	-1.0±0.3	0.1±0.4	-0.57±0.01	-1.19±0.02	0.787±0.007	0.787±0.007	0.001±0.006	0.014±0.004
13.8	-1.0±0.3	0.1±0.4	-0.55±0.01	-1.18±0.02	0.792±0.007	0.792±0.007	0.001±0.006	0.014±0.004
16.4	-1.0±0.3	0.3±0.4	-0.51±0.01	-1.17±0.02	0.811±0.007	0.810±0.007	0.004±0.005	0.015±0.004
18.9	-1.1±0.3	0.3±0.4	-0.48±0.01	-1.18±0.02	0.833±0.007	0.833±0.007	0.005±0.005	0.016±0.005
21.4	-1.3±0.3	0.3±0.4	-0.46±0.01	-1.18±0.02	0.849±0.007	0.849±0.007	0.005±0.005	0.019±0.005
24.0	-1.3±0.3	0.3±0.3	-0.43±0.01	-1.17±0.02	0.861±0.007	0.860±0.007	0.005±0.005	0.020±0.005
26.5	-1.4±0.3	0.4±0.3	-0.41±0.01	-1.18±0.02	0.874±0.007	0.874±0.007	0.005±0.005	0.021±0.005
29.1	-1.4±0.3	0.4±0.3	-0.38±0.01	-1.17±0.02	0.889±0.007	0.889±0.007	0.006±0.005	0.022±0.005
31.6	-1.4±0.3	0.4±0.3	-0.36±0.01	-1.19±0.02	0.909±0.006	0.909±0.006	0.006±0.005	0.023±0.005
34.1	-1.5±0.3	0.4±0.3	-0.34±0.01	-1.18±0.02	0.916±0.006	0.916±0.006	0.006±0.005	0.024±0.005
36.7	-1.5±0.3	0.4±0.3	-0.31±0.01	-1.17±0.02	0.929±0.006	0.928±0.006	0.006±0.005	0.025±0.005
39.2	-1.6±0.3	0.4±0.3	-0.29±0.01	-1.18±0.02	0.940±0.006	0.940±0.006	0.006±0.005	0.026±0.005
44.3	-1.6±0.3	0.4±0.3	-0.24±0.01	-1.17±0.02	0.963±0.006	0.963±0.006	0.007±0.005	0.027±0.005
49.4	-1.6±0.3	0.4±0.3	-0.21±0.01	-1.17±0.02	0.984±0.007	0.983±0.006	0.007±0.005	0.027±0.005
54.5	-1.6±0.3	0.4±0.3	-0.16±0.01	-1.16±0.02	0.999±0.007	0.999±0.007	0.007±0.004	0.028±0.006
59.5	-1.7±0.3	0.4±0.2	-0.12±0.01	-1.17±0.02	1.024±0.007	1.023±0.007	0.007±0.004	0.030±0.006
64.6	-1.7±0.3	0.4±0.2	-0.10±0.01	-1.17±0.02	1.035±0.007	1.035±0.007	0.007±0.004	0.030±0.006
69.7	-1.7±0.3	0.4±0.2	-0.06±0.01	-1.17±0.02	1.052±0.007	1.051±0.007	0.007±0.004	0.031±0.006
74.8	-1.6±0.3	0.4±0.2	-0.04±0.01	-1.16±0.02	1.061±0.007	1.060±0.007	0.008±0.004	0.030±0.006
79.9	-1.6±0.3	0.4±0.2	-0.02±0.01	-1.17±0.02	1.072±0.007	1.071±0.007	0.007±0.004	0.030±0.006
84.9	-1.6±0.3	0.4±0.2	-0.01±0.01	-1.17±0.02	1.077±0.007	1.077±0.007	0.008±0.004	0.029±0.006
90.0	-1.5±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.082±0.007	1.081±0.007	0.007±0.004	0.029±0.006
100.2	-1.5±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.084±0.007	0.007±0.004	0.028±0.006
110.3	-1.4±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.007±0.004	0.027±0.006
120.5	-1.4±0.3	0.3±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.084±0.007	0.006±0.004	0.026±0.006
130.7	-1.4±0.3	0.3±0.2	0.01±0.01	-1.16±0.02	1.085±0.007	1.084±0.007	0.006±0.004	0.027±0.006
140.8	-1.3±0.3	0.1±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.085±0.007	0.003±0.004	0.025±0.006

Table B.303 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.7±0.3	1.0±0.7	-0.77±0.01	-1.14±0.02	0.615±0.008	0.614±0.008	0.011±0.007	-0.008±0.003
4.7	0.3±0.3	0.4±0.6	-0.74±0.01	-1.15±0.02	0.645±0.007	0.645±0.007	0.005±0.007	-0.004±0.004
5.7	0.0±0.3	0.3±0.6	-0.70±0.01	-1.15±0.02	0.670±0.007	0.670±0.007	0.004±0.007	0.000±0.004
6.7	-0.2±0.3	0.2±0.5	-0.68±0.01	-1.15±0.02	0.685±0.007	0.685±0.007	0.003±0.007	0.002±0.004
7.7	-0.3±0.3	-0.1±0.5	-0.65±0.01	-1.16±0.02	0.710±0.007	0.710±0.007	-0.001±0.006	0.003±0.004
8.7	-0.3±0.3	0.0±0.5	-0.63±0.01	-1.15±0.02	0.722±0.007	0.722±0.007	0.000±0.006	0.004±0.004
9.8	-0.4±0.3	0.0±0.5	-0.61±0.01	-1.15±0.02	0.738±0.007	0.738±0.007	0.000±0.006	0.005±0.004
10.8	-0.5±0.3	0.1±0.5	-0.58±0.01	-1.15±0.02	0.751±0.007	0.751±0.007	0.001±0.006	0.007±0.004
11.8	-0.4±0.3	0.1±0.4	-0.57±0.01	-1.16±0.02	0.765±0.007	0.765±0.007	0.001±0.006	0.006±0.004
12.8	-0.5±0.3	0.1±0.4	-0.55±0.01	-1.15±0.02	0.770±0.007	0.770±0.007	0.002±0.006	0.007±0.004
13.8	-0.6±0.3	0.3±0.4	-0.54±0.01	-1.15±0.02	0.781±0.007	0.781±0.007	0.004±0.006	0.009±0.004
16.4	-0.7±0.3	0.3±0.4	-0.51±0.01	-1.15±0.02	0.803±0.007	0.803±0.007	0.004±0.006	0.009±0.004
18.9	-0.8±0.3	0.4±0.4	-0.48±0.01	-1.15±0.02	0.818±0.007	0.818±0.007	0.005±0.005	0.011±0.005
21.4	-0.8±0.3	0.3±0.4	-0.46±0.01	-1.16±0.02	0.839±0.007	0.839±0.007	0.005±0.005	0.012±0.005
24.0	-0.9±0.3	0.4±0.4	-0.43±0.01	-1.15±0.02	0.848±0.007	0.848±0.007	0.006±0.005	0.014±0.005
26.5	-1.1±0.3	0.4±0.3	-0.40±0.01	-1.15±0.02	0.866±0.007	0.866±0.007	0.005±0.005	0.017±0.005
29.1	-1.1±0.3	0.4±0.3	-0.38±0.01	-1.16±0.02	0.880±0.007	0.880±0.007	0.005±0.005	0.017±0.005
31.6	-1.3±0.3	0.4±0.3	-0.35±0.01	-1.14±0.02	0.888±0.007	0.888±0.007	0.006±0.005	0.020±0.005
34.1	-1.3±0.3	0.4±0.3	-0.34±0.01	-1.15±0.02	0.903±0.007	0.902±0.007	0.006±0.005	0.021±0.005
36.7	-1.4±0.3	0.4±0.3	-0.32±0.01	-1.16±0.02	0.916±0.007	0.915±0.007	0.007±0.005	0.023±0.005
39.2	-1.4±0.3	0.4±0.3	-0.29±0.01	-1.13±0.02	0.920±0.007	0.920±0.007	0.007±0.005	0.022±0.005
44.3	-1.5±0.3	0.4±0.3	-0.25±0.01	-1.14±0.02	0.948±0.007	0.948±0.007	0.006±0.005	0.024±0.005
49.4	-1.5±0.3	0.4±0.3	-0.20±0.01	-1.15±0.02	0.974±0.007	0.974±0.007	0.007±0.005	0.026±0.005
54.5	-1.6±0.3	0.4±0.3	-0.15±0.01	-1.14±0.02	0.991±0.007	0.990±0.007	0.007±0.005	0.027±0.005
59.5	-1.6±0.3	0.4±0.3	-0.14±0.01	-1.15±0.02	1.005±0.007	1.005±0.007	0.007±0.004	0.028±0.006
64.6	-1.5±0.3	0.4±0.2	-0.11±0.01	-1.16±0.02	1.027±0.007	1.027±0.007	0.007±0.004	0.027±0.006
69.7	-1.5±0.3	0.4±0.2	-0.07±0.01	-1.15±0.02	1.041±0.007	1.041±0.007	0.007±0.004	0.028±0.006
74.8	-1.5±0.3	0.4±0.2	-0.04±0.01	-1.15±0.02	1.052±0.007	1.051±0.007	0.007±0.004	0.028±0.006
79.9	-1.5±0.3	0.4±0.2	-0.03±0.01	-1.14±0.02	1.056±0.007	1.055±0.007	0.007±0.004	0.028±0.006
84.9	-1.5±0.3	0.4±0.2	-0.01±0.01	-1.15±0.02	1.066±0.007	1.066±0.007	0.007±0.004	0.027±0.006
90.0	-1.4±0.3	0.4±0.2	0.00±0.01	-1.14±0.02	1.070±0.007	1.069±0.007	0.007±0.004	0.026±0.006
100.2	-1.3±0.3	0.3±0.2	0.01±0.01	-1.14±0.02	1.072±0.007	1.072±0.007	0.006±0.004	0.025±0.006
110.3	-1.3±0.3	0.2±0.2	0.01±0.01	-1.14±0.02	1.072±0.007	1.072±0.007	0.003±0.004	0.024±0.006
120.5	-1.3±0.3	0.2±0.2	0.01±0.01	-1.14±0.02	1.072±0.007	1.072±0.007	0.004±0.004	0.024±0.006
130.7	-1.3±0.3	0.1±0.2	0.01±0.01	-1.14±0.02	1.073±0.007	1.072±0.007	0.002±0.004	0.024±0.006
140.8	-1.3±0.3	0.1±0.2	0.01±0.01	-1.14±0.02	1.073±0.007	1.073±0.007	0.002±0.004	0.024±0.006

Table B.304 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	1.3±0.3	0.9±0.6	-0.77±0.01	-1.18±0.02	0.636±0.007	0.636±0.007	0.010±0.007	-0.014±0.004
4.7	1.0±0.3	0.4±0.6	-0.75±0.01	-1.17±0.02	0.651±0.007	0.651±0.007	0.004±0.007	-0.011±0.004
5.7	0.7±0.3	0.3±0.5	-0.71±0.01	-1.18±0.02	0.680±0.007	0.680±0.007	0.003±0.007	-0.008±0.004
6.7	0.4±0.3	0.1±0.5	-0.69±0.01	-1.18±0.02	0.702±0.007	0.702±0.007	0.001±0.006	-0.005±0.004
7.7	0.2±0.3	0.1±0.5	-0.66±0.01	-1.17±0.02	0.713±0.007	0.713±0.007	0.002±0.006	-0.003±0.004
8.7	0.0±0.3	0.0±0.5	-0.64±0.01	-1.19±0.02	0.738±0.007	0.738±0.007	0.000±0.006	0.000±0.004
9.8	0.0±0.3	0.0±0.5	-0.61±0.01	-1.17±0.02	0.746±0.007	0.746±0.007	0.000±0.006	0.000±0.004
10.8	-0.1±0.3	0.1±0.4	-0.59±0.01	-1.17±0.02	0.762±0.007	0.762±0.007	0.001±0.006	0.002±0.004
11.8	-0.3±0.3	0.0±0.4	-0.56±0.01	-1.16±0.02	0.776±0.007	0.776±0.007	0.001±0.006	0.004±0.004
12.8	-0.4±0.3	0.2±0.4	-0.54±0.01	-1.16±0.02	0.786±0.007	0.786±0.007	0.002±0.006	0.005±0.004
13.8	-0.4±0.3	0.2±0.4	-0.54±0.01	-1.18±0.02	0.797±0.007	0.797±0.007	0.003±0.006	0.006±0.004
16.4	-0.5±0.3	0.3±0.4	-0.50±0.01	-1.18±0.02	0.820±0.007	0.820±0.007	0.005±0.005	0.008±0.005
18.9	-0.8±0.3	0.3±0.4	-0.47±0.01	-1.17±0.02	0.833±0.007	0.833±0.007	0.005±0.005	0.011±0.005
21.4	-0.9±0.3	0.3±0.4	-0.45±0.01	-1.17±0.02	0.845±0.007	0.845±0.007	0.005±0.005	0.013±0.005
24.0	-0.9±0.3	0.4±0.3	-0.44±0.01	-1.18±0.02	0.860±0.007	0.860±0.007	0.006±0.005	0.014±0.005
26.5	-1.1±0.3	0.4±0.3	-0.40±0.01	-1.18±0.02	0.879±0.007	0.879±0.007	0.005±0.005	0.017±0.005
29.1	-1.2±0.3	0.3±0.3	-0.39±0.01	-1.18±0.02	0.890±0.006	0.890±0.006	0.005±0.005	0.019±0.005
31.6	-1.3±0.3	0.3±0.3	-0.36±0.01	-1.18±0.02	0.908±0.006	0.907±0.006	0.005±0.005	0.021±0.005
34.1	-1.3±0.3	0.4±0.3	-0.32±0.01	-1.17±0.02	0.921±0.006	0.921±0.006	0.006±0.005	0.022±0.005
36.7	-1.4±0.3	0.4±0.3	-0.31±0.01	-1.17±0.02	0.928±0.006	0.928±0.006	0.006±0.005	0.023±0.005
39.2	-1.5±0.3	0.4±0.3	-0.29±0.01	-1.18±0.02	0.940±0.006	0.940±0.006	0.006±0.005	0.025±0.005
44.3	-1.6±0.3	0.3±0.3	-0.25±0.01	-1.17±0.02	0.960±0.006	0.960±0.006	0.006±0.005	0.027±0.005
49.4	-1.6±0.3	0.3±0.3	-0.21±0.01	-1.17±0.02	0.982±0.006	0.982±0.006	0.005±0.005	0.027±0.005
54.5	-1.6±0.3	0.2±0.3	-0.16±0.01	-1.16±0.02	1.002±0.007	1.001±0.007	0.004±0.004	0.028±0.006
59.5	-1.6±0.3	0.2±0.2	-0.14±0.01	-1.17±0.02	1.015±0.007	1.015±0.007	0.004±0.004	0.029±0.006
64.6	-1.6±0.3	0.2±0.2	-0.10±0.01	-1.17±0.02	1.034±0.007	1.034±0.007	0.003±0.004	0.029±0.006
69.7	-1.6±0.3	0.2±0.2	-0.07±0.01	-1.17±0.02	1.050±0.007	1.050±0.007	0.004±0.004	0.030±0.006
74.8	-1.6±0.3	0.2±0.2	-0.04±0.01	-1.17±0.02	1.060±0.007	1.060±0.007	0.003±0.004	0.030±0.006
79.9	-1.5±0.3	0.2±0.2	-0.02±0.01	-1.16±0.02	1.071±0.007	1.070±0.007	0.003±0.004	0.029±0.006
84.9	-1.5±0.3	0.2±0.2	-0.01±0.01	-1.17±0.02	1.077±0.007	1.076±0.007	0.003±0.004	0.029±0.006
90.0	-1.5±0.3	0.2±0.2	0.00±0.01	-1.17±0.02	1.081±0.007	1.080±0.007	0.003±0.004	0.028±0.006
100.2	-1.4±0.3	0.1±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.003±0.004	0.027±0.006
110.3	-1.3±0.3	0.0±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.083±0.007	0.000±0.004	0.025±0.006
120.5	-1.3±0.3	-0.2±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	-0.004±0.004	0.025±0.006
130.7	-1.3±0.3	-0.2±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	-0.004±0.004	0.024±0.006
140.8	-1.2±0.3	-0.3±0.2	0.01±0.01	-1.16±0.02	1.084±0.007	1.084±0.007	-0.005±0.004	0.022±0.006

Table B.305 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	1.6±0.3	1.0±0.7	-0.76±0.01	-1.14±0.02	0.614±0.008	0.614±0.008	0.011±0.007	-0.017±0.003
4.7	1.3±0.3	0.4±0.6	-0.73±0.01	-1.15±0.02	0.644±0.007	0.644±0.007	0.004±0.007	-0.015±0.004
5.7	1.1±0.3	0.3±0.6	-0.70±0.01	-1.15±0.02	0.669±0.007	0.668±0.007	0.004±0.007	-0.013±0.004
6.7	0.8±0.3	0.1±0.6	-0.68±0.01	-1.14±0.02	0.680±0.007	0.680±0.007	0.001±0.007	-0.009±0.004
7.7	0.5±0.3	0.0±0.5	-0.65±0.01	-1.14±0.02	0.702±0.007	0.702±0.007	0.000±0.006	-0.006±0.004
8.7	0.2±0.3	0.1±0.5	-0.62±0.01	-1.14±0.02	0.720±0.007	0.720±0.007	0.001±0.006	-0.002±0.004
9.8	0.1±0.3	0.1±0.5	-0.60±0.01	-1.14±0.02	0.734±0.007	0.734±0.007	0.001±0.006	-0.001±0.004
10.8	-0.1±0.3	0.1±0.5	-0.58±0.01	-1.14±0.02	0.751±0.007	0.751±0.007	0.002±0.006	0.001±0.004
11.8	-0.2±0.3	0.2±0.4	-0.56±0.01	-1.14±0.02	0.765±0.007	0.765±0.007	0.003±0.006	0.002±0.004
12.8	-0.3±0.3	0.2±0.4	-0.55±0.01	-1.14±0.02	0.773±0.007	0.773±0.007	0.002±0.006	0.004±0.004
13.8	-0.4±0.3	0.3±0.4	-0.53±0.01	-1.15±0.02	0.786±0.007	0.786±0.007	0.004±0.006	0.006±0.004
16.4	-0.5±0.3	0.4±0.4	-0.50±0.01	-1.14±0.02	0.801±0.007	0.801±0.007	0.005±0.006	0.007±0.004
18.9	-0.7±0.3	0.4±0.4	-0.47±0.01	-1.15±0.02	0.825±0.007	0.825±0.007	0.005±0.005	0.010±0.005
21.4	-0.8±0.3	0.4±0.4	-0.45±0.01	-1.15±0.02	0.840±0.007	0.840±0.007	0.006±0.005	0.012±0.005
24.0	-1.0±0.3	0.4±0.4	-0.42±0.01	-1.14±0.02	0.852±0.007	0.852±0.007	0.005±0.005	0.014±0.005
26.5	-1.2±0.3	0.4±0.3	-0.39±0.01	-1.13±0.02	0.861±0.007	0.861±0.007	0.006±0.005	0.018±0.005
29.1	-1.3±0.3	0.4±0.3	-0.38±0.01	-1.15±0.02	0.877±0.007	0.877±0.007	0.006±0.005	0.020±0.005
31.6	-1.3±0.3	0.4±0.3	-0.35±0.01	-1.15±0.02	0.892±0.007	0.891±0.007	0.006±0.005	0.021±0.005
34.1	-1.4±0.3	0.4±0.3	-0.33±0.01	-1.14±0.02	0.901±0.006	0.901±0.006	0.006±0.005	0.023±0.005
36.7	-1.5±0.3	0.4±0.3	-0.31±0.01	-1.15±0.02	0.917±0.006	0.917±0.006	0.006±0.005	0.024±0.005
39.2	-1.6±0.3	0.4±0.3	-0.29±0.01	-1.13±0.02	0.921±0.006	0.921±0.006	0.006±0.005	0.025±0.005
44.3	-1.6±0.3	0.4±0.3	-0.24±0.01	-1.14±0.02	0.946±0.006	0.945±0.006	0.006±0.005	0.027±0.005
49.4	-1.7±0.3	0.4±0.3	-0.19±0.01	-1.12±0.02	0.965±0.006	0.964±0.006	0.006±0.005	0.028±0.005
54.5	-1.6±0.3	0.4±0.3	-0.16±0.01	-1.13±0.02	0.983±0.006	0.983±0.006	0.006±0.005	0.028±0.005
59.5	-1.7±0.3	0.3±0.3	-0.13±0.01	-1.13±0.02	1.001±0.007	1.001±0.007	0.005±0.004	0.030±0.006
64.6	-1.7±0.3	0.3±0.2	-0.09±0.01	-1.13±0.02	1.018±0.007	1.018±0.007	0.006±0.004	0.031±0.006
69.7	-1.8±0.3	0.3±0.2	-0.06±0.01	-1.13±0.02	1.034±0.007	1.034±0.007	0.005±0.004	0.032±0.006
74.8	-1.6±0.3	0.2±0.2	-0.04±0.01	-1.13±0.02	1.045±0.007	1.044±0.007	0.004±0.004	0.030±0.006
79.9	-1.6±0.3	0.2±0.2	-0.02±0.01	-1.13±0.02	1.053±0.007	1.053±0.007	0.004±0.004	0.030±0.006
84.9	-1.6±0.3	0.2±0.2	0.00±0.01	-1.12±0.02	1.058±0.007	1.057±0.007	0.004±0.004	0.029±0.006
90.0	-1.6±0.3	0.2±0.2	0.00±0.01	-1.13±0.02	1.063±0.007	1.063±0.007	0.003±0.004	0.029±0.006
100.2	-1.5±0.3	0.1±0.2	0.01±0.01	-1.13±0.02	1.066±0.007	1.065±0.007	0.003±0.004	0.027±0.006
110.3	-1.5±0.3	0.2±0.2	0.01±0.01	-1.13±0.02	1.066±0.007	1.066±0.007	0.003±0.004	0.027±0.006
120.5	-1.4±0.3	0.1±0.2	0.01±0.01	-1.13±0.02	1.066±0.007	1.065±0.007	0.003±0.004	0.027±0.006
130.7	-1.3±0.3	0.0±0.2	0.01±0.01	-1.13±0.02	1.065±0.007	1.065±0.007	0.000±0.004	0.025±0.006
140.8	-1.3±0.3	-0.1±0.2	0.01±0.01	-1.13±0.02	1.066±0.007	1.066±0.007	-0.001±0.004	0.024±0.006

Table B.306 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.1±0.3	0.9±0.6	-0.76±0.01	-1.15±0.02	0.626±0.007	0.625±0.007	0.010±0.007	-0.022±0.003
4.7	1.8±0.3	0.3±0.6	-0.73±0.01	-1.15±0.02	0.651±0.007	0.650±0.007	0.004±0.007	-0.021±0.004
5.7	1.2±0.3	0.3±0.6	-0.70±0.01	-1.16±0.02	0.674±0.007	0.674±0.007	0.004±0.007	-0.014±0.004
6.7	0.9±0.3	0.2±0.5	-0.68±0.01	-1.16±0.02	0.694±0.007	0.694±0.007	0.002±0.006	-0.011±0.004
7.7	0.7±0.3	0.0±0.5	-0.64±0.01	-1.15±0.02	0.716±0.007	0.716±0.007	0.000±0.006	-0.009±0.004
8.7	0.4±0.3	0.0±0.5	-0.63±0.01	-1.16±0.02	0.729±0.007	0.729±0.007	0.000±0.006	-0.006±0.004
9.8	0.3±0.3	0.1±0.4	-0.60±0.01	-1.17±0.02	0.751±0.007	0.751±0.007	0.002±0.006	-0.003±0.004
10.8	0.1±0.3	0.1±0.4	-0.57±0.01	-1.15±0.02	0.762±0.007	0.762±0.007	0.001±0.006	-0.002±0.004
11.8	0.0±0.3	0.1±0.4	-0.56±0.01	-1.16±0.02	0.774±0.007	0.774±0.007	0.002±0.006	0.000±0.004
12.8	-0.2±0.3	0.3±0.4	-0.54±0.01	-1.16±0.02	0.783±0.007	0.783±0.007	0.004±0.006	0.002±0.004
13.8	-0.2±0.3	0.3±0.4	-0.53±0.01	-1.16±0.02	0.795±0.007	0.795±0.007	0.004±0.006	0.003±0.004
16.4	-0.4±0.3	0.3±0.4	-0.49±0.01	-1.16±0.02	0.816±0.007	0.816±0.007	0.005±0.005	0.006±0.005
18.9	-0.6±0.3	0.3±0.4	-0.46±0.01	-1.15±0.02	0.833±0.007	0.833±0.007	0.005±0.005	0.009±0.005
21.4	-0.8±0.3	0.4±0.4	-0.44±0.01	-1.15±0.02	0.844±0.007	0.844±0.007	0.005±0.005	0.012±0.005
24.0	-1.0±0.3	0.4±0.3	-0.41±0.01	-1.15±0.02	0.859±0.006	0.859±0.006	0.005±0.005	0.015±0.005
26.5	-1.1±0.3	0.4±0.3	-0.40±0.01	-1.17±0.02	0.875±0.006	0.875±0.006	0.006±0.005	0.017±0.005
29.1	-1.3±0.3	0.3±0.3	-0.37±0.01	-1.15±0.02	0.883±0.006	0.883±0.006	0.005±0.005	0.019±0.005
31.6	-1.4±0.3	0.4±0.3	-0.35±0.01	-1.15±0.02	0.896±0.006	0.896±0.006	0.005±0.005	0.022±0.005
34.1	-1.5±0.3	0.4±0.3	-0.32±0.01	-1.15±0.02	0.908±0.006	0.908±0.006	0.006±0.005	0.023±0.005
36.7	-1.5±0.3	0.4±0.3	-0.30±0.01	-1.15±0.02	0.920±0.006	0.920±0.006	0.006±0.005	0.024±0.005
39.2	-1.6±0.3	0.3±0.3	-0.28±0.01	-1.15±0.02	0.931±0.006	0.931±0.006	0.006±0.005	0.026±0.005
44.3	-1.6±0.3	0.3±0.3	-0.24±0.01	-1.15±0.02	0.955±0.006	0.955±0.006	0.006±0.005	0.027±0.005
49.4	-1.7±0.3	0.3±0.3	-0.20±0.01	-1.15±0.02	0.975±0.006	0.974±0.006	0.005±0.005	0.029±0.005
54.5	-1.7±0.3	0.3±0.3	-0.16±0.01	-1.15±0.02	0.995±0.006	0.995±0.006	0.005±0.004	0.030±0.005
59.5	-1.7±0.3	0.2±0.2	-0.13±0.01	-1.15±0.02	1.010±0.006	1.009±0.006	0.004±0.004	0.030±0.006
64.6	-1.7±0.3	0.2±0.2	-0.09±0.01	-1.15±0.02	1.027±0.006	1.026±0.006	0.004±0.004	0.031±0.006
69.7	-1.8±0.3	0.2±0.2	-0.06±0.01	-1.14±0.02	1.040±0.007	1.039±0.007	0.003±0.004	0.032±0.006
74.8	-1.7±0.3	0.1±0.2	-0.04±0.01	-1.14±0.02	1.049±0.007	1.049±0.007	0.003±0.004	0.031±0.006
79.9	-1.7±0.3	0.2±0.2	-0.02±0.01	-1.14±0.02	1.061±0.007	1.060±0.007	0.003±0.004	0.031±0.006
84.9	-1.6±0.3	0.1±0.2	0.00±0.01	-1.15±0.02	1.068±0.007	1.067±0.007	0.003±0.004	0.029±0.006
90.0	-1.5±0.3	0.2±0.2	0.00±0.01	-1.14±0.02	1.071±0.007	1.071±0.007	0.003±0.004	0.029±0.006
100.2	-1.5±0.3	0.1±0.2	0.01±0.01	-1.14±0.02	1.073±0.007	1.073±0.007	0.003±0.004	0.028±0.006
110.3	-1.4±0.3	0.0±0.2	0.01±0.01	-1.14±0.02	1.074±0.007	1.074±0.007	0.001±0.004	0.026±0.006
120.5	-1.4±0.3	0.1±0.2	0.01±0.01	-1.14±0.02	1.074±0.007	1.074±0.007	0.001±0.004	0.026±0.006
130.7	-1.3±0.3	0.0±0.2	0.01±0.01	-1.14±0.02	1.074±0.007	1.073±0.007	0.000±0.004	0.025±0.006
140.8	-1.2±0.3	0.0±0.2	0.01±0.01	-1.14±0.02	1.074±0.007	1.074±0.007	-0.001±0.004	0.023±0.006

Table B.307 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.6±0.3	0.9±0.7	-0.76±0.01	-1.15±0.02	0.623±0.007	0.622±0.007	0.010±0.007	-0.028±0.003
4.7	2.0±0.3	0.4±0.6	-0.73±0.01	-1.14±0.02	0.646±0.007	0.646±0.007	0.004±0.007	-0.023±0.004
5.7	1.5±0.3	0.3±0.6	-0.70±0.01	-1.15±0.02	0.674±0.007	0.673±0.007	0.004±0.007	-0.018±0.004
6.7	1.3±0.3	0.2±0.5	-0.68±0.01	-1.16±0.02	0.695±0.007	0.695±0.007	0.002±0.006	-0.015±0.004
7.7	0.8±0.3	0.0±0.5	-0.64±0.01	-1.15±0.02	0.711±0.007	0.711±0.007	0.000±0.006	-0.009±0.004
8.7	0.6±0.3	0.0±0.5	-0.62±0.01	-1.15±0.02	0.732±0.007	0.732±0.007	0.000±0.006	-0.008±0.004
9.8	0.4±0.3	0.0±0.5	-0.60±0.01	-1.15±0.02	0.744±0.007	0.744±0.007	0.000±0.006	-0.005±0.004
10.8	0.1±0.3	0.1±0.4	-0.57±0.01	-1.15±0.02	0.763±0.007	0.763±0.007	0.001±0.006	-0.002±0.004
11.8	0.0±0.3	0.2±0.4	-0.55±0.01	-1.15±0.02	0.774±0.007	0.774±0.007	0.002±0.006	0.000±0.004
12.8	-0.1±0.3	0.2±0.4	-0.53±0.01	-1.14±0.02	0.785±0.007	0.785±0.007	0.003±0.006	0.002±0.004
13.8	-0.3±0.3	0.3±0.4	-0.52±0.01	-1.15±0.02	0.794±0.007	0.794±0.007	0.004±0.006	0.004±0.004
16.4	-0.5±0.3	0.3±0.4	-0.49±0.01	-1.15±0.02	0.814±0.007	0.814±0.007	0.005±0.005	0.007±0.004
18.9	-0.8±0.3	0.3±0.4	-0.46±0.01	-1.15±0.02	0.830±0.007	0.830±0.007	0.005±0.005	0.011±0.005
21.4	-0.9±0.3	0.4±0.4	-0.44±0.01	-1.15±0.02	0.844±0.007	0.844±0.007	0.005±0.005	0.013±0.005
24.0	-1.0±0.3	0.3±0.3	-0.42±0.01	-1.16±0.02	0.858±0.007	0.858±0.007	0.005±0.005	0.015±0.005
26.5	-1.2±0.3	0.3±0.3	-0.39±0.01	-1.15±0.02	0.871±0.006	0.871±0.006	0.005±0.005	0.018±0.005
29.1	-1.3±0.3	0.3±0.3	-0.36±0.01	-1.14±0.02	0.881±0.006	0.881±0.006	0.005±0.005	0.020±0.005
31.6	-1.5±0.3	0.4±0.3	-0.35±0.01	-1.14±0.02	0.893±0.006	0.892±0.006	0.006±0.005	0.024±0.005
34.1	-1.5±0.3	0.3±0.3	-0.32±0.01	-1.15±0.02	0.909±0.006	0.909±0.006	0.004±0.005	0.023±0.005
36.7	-1.6±0.3	0.3±0.3	-0.30±0.01	-1.15±0.02	0.923±0.006	0.922±0.006	0.005±0.005	0.026±0.005
39.2	-1.7±0.3	0.3±0.3	-0.28±0.01	-1.14±0.02	0.932±0.006	0.931±0.006	0.004±0.005	0.028±0.005
44.3	-1.8±0.3	0.2±0.3	-0.24±0.01	-1.14±0.02	0.954±0.006	0.953±0.006	0.004±0.005	0.030±0.005
49.4	-1.8±0.3	0.2±0.3	-0.20±0.01	-1.14±0.02	0.970±0.006	0.970±0.006	0.003±0.005	0.031±0.005
54.5	-1.8±0.3	0.2±0.3	-0.16±0.01	-1.14±0.02	0.993±0.006	0.992±0.006	0.003±0.004	0.031±0.005
59.5	-1.9±0.3	0.1±0.2	-0.12±0.01	-1.14±0.02	1.010±0.006	1.009±0.006	0.002±0.004	0.033±0.006
64.6	-1.9±0.3	0.1±0.2	-0.09±0.01	-1.14±0.02	1.021±0.006	1.021±0.006	0.002±0.004	0.033±0.006
69.7	-1.8±0.3	0.1±0.2	-0.06±0.01	-1.14±0.02	1.036±0.007	1.036±0.007	0.003±0.004	0.033±0.006
74.8	-1.8±0.3	0.1±0.2	-0.04±0.01	-1.14±0.02	1.050±0.007	1.049±0.007	0.003±0.004	0.033±0.006
79.9	-1.7±0.3	0.2±0.2	-0.02±0.01	-1.14±0.02	1.057±0.007	1.057±0.007	0.003±0.004	0.032±0.006
84.9	-1.7±0.3	0.2±0.2	0.00±0.01	-1.13±0.02	1.063±0.007	1.062±0.007	0.003±0.004	0.032±0.006
90.0	-1.7±0.3	0.2±0.2	0.00±0.01	-1.14±0.02	1.067±0.007	1.066±0.007	0.003±0.004	0.031±0.006
100.2	-1.5±0.3	0.1±0.2	0.01±0.01	-1.13±0.02	1.069±0.007	1.069±0.007	0.002±0.004	0.029±0.006
110.3	-1.5±0.3	0.0±0.2	0.01±0.01	-1.13±0.02	1.069±0.007	1.069±0.007	0.000±0.004	0.028±0.006
120.5	-1.5±0.3	0.0±0.2	0.01±0.01	-1.13±0.02	1.069±0.007	1.068±0.007	-0.001±0.004	0.028±0.006
130.7	-1.4±0.3	-0.1±0.2	0.01±0.01	-1.13±0.02	1.069±0.007	1.069±0.007	-0.001±0.004	0.026±0.006
140.8	-1.3±0.3	0.0±0.2	0.01±0.01	-1.13±0.02	1.069±0.007	1.069±0.007	-0.001±0.004	0.024±0.006

Table B.308 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.1±0.3	1.1±0.7	-0.75±0.01	-1.13±0.02	0.618±0.008	0.617±0.008	0.011±0.007	-0.033±0.003
4.7	2.5±0.3	0.5±0.6	-0.72±0.01	-1.14±0.02	0.647±0.007	0.646±0.007	0.005±0.007	-0.028±0.004
5.7	1.8±0.3	0.3±0.6	-0.69±0.01	-1.14±0.02	0.666±0.007	0.665±0.007	0.003±0.007	-0.021±0.004
6.7	1.5±0.3	0.2±0.5	-0.67±0.01	-1.14±0.02	0.692±0.007	0.692±0.007	0.003±0.006	-0.018±0.004
7.7	1.0±0.3	0.2±0.5	-0.64±0.01	-1.15±0.02	0.710±0.007	0.710±0.007	0.002±0.006	-0.012±0.004
8.7	0.7±0.3	0.0±0.5	-0.62±0.01	-1.15±0.02	0.734±0.007	0.734±0.007	0.001±0.006	-0.009±0.004
9.8	0.5±0.3	0.1±0.5	-0.58±0.01	-1.15±0.02	0.750±0.007	0.750±0.007	0.001±0.006	-0.006±0.004
10.8	0.2±0.3	0.1±0.4	-0.56±0.01	-1.14±0.02	0.764±0.007	0.764±0.007	0.002±0.006	-0.003±0.004
11.8	0.1±0.3	0.2±0.4	-0.55±0.01	-1.15±0.02	0.777±0.007	0.777±0.007	0.003±0.006	-0.001±0.004
12.8	-0.1±0.3	0.2±0.4	-0.52±0.01	-1.14±0.02	0.789±0.007	0.789±0.007	0.003±0.006	0.001±0.004
13.8	-0.2±0.3	0.2±0.4	-0.51±0.01	-1.14±0.02	0.798±0.007	0.798±0.007	0.003±0.006	0.003±0.004
16.4	-0.5±0.3	0.3±0.4	-0.47±0.01	-1.14±0.02	0.818±0.007	0.818±0.007	0.005±0.005	0.007±0.005
18.9	-0.7±0.3	0.3±0.4	-0.44±0.01	-1.14±0.02	0.837±0.007	0.837±0.007	0.005±0.005	0.010±0.005
21.4	-0.9±0.3	0.3±0.4	-0.43±0.01	-1.15±0.02	0.848±0.007	0.848±0.007	0.005±0.005	0.013±0.005
24.0	-1.1±0.3	0.3±0.3	-0.40±0.01	-1.14±0.02	0.860±0.007	0.860±0.007	0.004±0.005	0.017±0.005
26.5	-1.2±0.3	0.2±0.3	-0.38±0.01	-1.14±0.02	0.874±0.007	0.874±0.007	0.004±0.005	0.019±0.005
29.1	-1.3±0.3	0.2±0.3	-0.36±0.01	-1.14±0.02	0.886±0.007	0.886±0.007	0.002±0.005	0.020±0.005
31.6	-1.5±0.3	0.1±0.3	-0.33±0.01	-1.13±0.02	0.897±0.006	0.897±0.006	0.002±0.005	0.023±0.005
34.1	-1.5±0.3	0.1±0.3	-0.31±0.01	-1.14±0.02	0.910±0.006	0.910±0.006	0.001±0.005	0.024±0.005
36.7	-1.6±0.3	0.1±0.3	-0.28±0.01	-1.14±0.02	0.926±0.006	0.926±0.006	0.001±0.005	0.027±0.005
39.2	-1.7±0.3	0.1±0.3	-0.26±0.01	-1.13±0.02	0.932±0.006	0.932±0.006	0.001±0.005	0.027±0.005
44.3	-1.7±0.3	0.1±0.3	-0.23±0.01	-1.13±0.02	0.953±0.006	0.952±0.006	0.001±0.005	0.029±0.005
49.4	-1.8±0.3	0.1±0.3	-0.19±0.01	-1.14±0.02	0.971±0.006	0.971±0.006	0.002±0.005	0.030±0.005
54.5	-1.9±0.3	0.1±0.3	-0.15±0.01	-1.12±0.02	0.986±0.006	0.986±0.006	0.001±0.004	0.032±0.005
59.5	-1.9±0.3	-0.1±0.2	-0.11±0.01	-1.13±0.02	1.008±0.007	1.007±0.007	-0.001±0.004	0.033±0.006
64.6	-1.8±0.3	-0.1±0.2	-0.08±0.01	-1.12±0.02	1.019±0.007	1.018±0.007	-0.001±0.004	0.033±0.006
69.7	-1.8±0.3	-0.1±0.2	-0.05±0.01	-1.12±0.02	1.036±0.007	1.035±0.007	-0.001±0.004	0.032±0.006
74.8	-1.7±0.3	-0.1±0.2	-0.03±0.01	-1.13±0.02	1.045±0.007	1.044±0.007	-0.001±0.004	0.031±0.006
79.9	-1.7±0.3	-0.1±0.2	-0.02±0.01	-1.12±0.02	1.052±0.007	1.052±0.007	-0.002±0.004	0.032±0.006
84.9	-1.6±0.3	-0.1±0.2	-0.01±0.01	-1.12±0.02	1.058±0.007	1.057±0.007	-0.001±0.004	0.030±0.006
90.0	-1.6±0.3	-0.1±0.2	0.00±0.01	-1.12±0.02	1.062±0.007	1.061±0.007	-0.001±0.004	0.029±0.006
100.2	-1.5±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.063±0.007	1.063±0.007	-0.001±0.004	0.028±0.006
110.3	-1.4±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.063±0.007	1.062±0.007	-0.001±0.004	0.027±0.006
120.5	-1.4±0.3	-0.2±0.2	0.01±0.01	-1.12±0.02	1.063±0.007	1.062±0.007	-0.004±0.004	0.026±0.006
130.7	-1.3±0.3	-0.2±0.2	0.01±0.01	-1.12±0.02	1.063±0.007	1.062±0.007	-0.004±0.004	0.024±0.006
140.8	-1.2±0.3	-0.2±0.2	0.01±0.01	-1.12±0.02	1.063±0.007	1.063±0.007	-0.004±0.004	0.023±0.006

Table B.309 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.9±0.3	1.0±0.7	-0.76±0.01	-1.14±0.02	0.619±0.008	0.617±0.007	0.011±0.007	-0.042±0.003
4.7	3.2±0.3	0.5±0.6	-0.73±0.01	-1.14±0.02	0.644±0.007	0.643±0.007	0.005±0.007	-0.036±0.004
5.7	2.4±0.3	0.3±0.6	-0.69±0.01	-1.14±0.02	0.671±0.007	0.670±0.007	0.003±0.007	-0.028±0.004
6.7	1.9±0.3	0.3±0.5	-0.67±0.01	-1.15±0.02	0.692±0.007	0.691±0.007	0.004±0.006	-0.023±0.004
7.7	1.5±0.3	0.1±0.5	-0.63±0.01	-1.14±0.02	0.713±0.007	0.713±0.007	0.001±0.006	-0.018±0.004
8.7	1.1±0.3	0.1±0.5	-0.62±0.01	-1.16±0.02	0.736±0.007	0.735±0.007	0.001±0.006	-0.015±0.004
9.8	0.8±0.3	0.1±0.5	-0.58±0.01	-1.14±0.02	0.750±0.007	0.750±0.007	0.002±0.006	-0.010±0.004
10.8	0.5±0.3	0.1±0.4	-0.56±0.01	-1.15±0.02	0.766±0.007	0.766±0.007	0.001±0.006	-0.007±0.004
11.8	0.3±0.3	0.2±0.4	-0.54±0.01	-1.16±0.02	0.782±0.007	0.782±0.007	0.002±0.006	-0.004±0.004
12.8	0.1±0.3	0.2±0.4	-0.52±0.01	-1.14±0.02	0.792±0.007	0.792±0.007	0.003±0.006	-0.002±0.004
13.8	-0.1±0.3	0.3±0.4	-0.50±0.01	-1.14±0.02	0.798±0.007	0.798±0.007	0.004±0.006	0.001±0.004
16.4	-0.4±0.3	0.3±0.4	-0.46±0.01	-1.14±0.02	0.820±0.007	0.820±0.007	0.005±0.005	0.006±0.005
18.9	-0.6±0.3	0.3±0.4	-0.44±0.01	-1.15±0.02	0.840±0.007	0.840±0.007	0.004±0.005	0.009±0.005
21.4	-0.7±0.3	0.2±0.3	-0.42±0.01	-1.15±0.02	0.854±0.007	0.854±0.007	0.004±0.005	0.010±0.005
24.0	-0.9±0.3	0.1±0.3	-0.40±0.01	-1.15±0.02	0.867±0.006	0.867±0.006	0.002±0.005	0.013±0.005
26.5	-1.0±0.3	0.1±0.3	-0.38±0.01	-1.14±0.02	0.874±0.006	0.874±0.006	0.001±0.005	0.016±0.005
29.1	-1.2±0.3	0.0±0.3	-0.36±0.01	-1.15±0.02	0.891±0.006	0.890±0.006	0.001±0.005	0.019±0.005
31.6	-1.3±0.3	0.0±0.3	-0.33±0.01	-1.13±0.02	0.898±0.006	0.897±0.006	0.001±0.005	0.021±0.005
34.1	-1.4±0.3	0.0±0.3	-0.31±0.01	-1.14±0.02	0.912±0.006	0.912±0.006	0.001±0.005	0.022±0.005
36.7	-1.5±0.3	0.1±0.3	-0.29±0.01	-1.13±0.02	0.918±0.006	0.918±0.006	0.001±0.005	0.024±0.005
39.2	-1.5±0.3	0.0±0.3	-0.27±0.01	-1.15±0.02	0.936±0.006	0.935±0.006	0.001±0.005	0.024±0.005
44.3	-1.6±0.3	0.0±0.3	-0.23±0.01	-1.14±0.02	0.953±0.006	0.953±0.006	0.000±0.005	0.026±0.005
49.4	-1.6±0.3	0.0±0.3	-0.19±0.01	-1.14±0.02	0.977±0.006	0.977±0.006	-0.001±0.005	0.027±0.005
54.5	-1.6±0.3	-0.1±0.3	-0.15±0.01	-1.13±0.02	0.989±0.006	0.988±0.006	-0.002±0.004	0.028±0.005
59.5	-1.7±0.3	-0.1±0.2	-0.12±0.01	-1.14±0.02	1.008±0.006	1.008±0.006	-0.002±0.004	0.029±0.006
64.6	-1.6±0.3	-0.1±0.2	-0.09±0.01	-1.14±0.02	1.023±0.007	1.023±0.007	-0.002±0.004	0.029±0.006
69.7	-1.6±0.3	-0.1±0.2	-0.06±0.01	-1.13±0.02	1.037±0.007	1.036±0.007	-0.002±0.004	0.029±0.006
74.8	-1.6±0.3	-0.1±0.2	-0.04±0.01	-1.14±0.02	1.049±0.007	1.049±0.007	-0.001±0.004	0.029±0.006
79.9	-1.5±0.3	-0.1±0.2	-0.02±0.01	-1.14±0.02	1.058±0.007	1.057±0.007	-0.001±0.004	0.027±0.006
84.9	-1.4±0.3	-0.1±0.2	0.00±0.01	-1.13±0.02	1.062±0.007	1.061±0.007	-0.001±0.004	0.027±0.006
90.0	-1.4±0.3	-0.1±0.2	0.00±0.01	-1.13±0.02	1.064±0.007	1.064±0.007	-0.001±0.004	0.026±0.006
100.2	-1.3±0.3	0.0±0.2	0.01±0.01	-1.13±0.02	1.068±0.007	1.067±0.007	-0.001±0.004	0.024±0.006
110.3	-1.2±0.3	0.0±0.2	0.01±0.01	-1.13±0.02	1.068±0.007	1.068±0.007	-0.001±0.004	0.022±0.006
120.5	-1.2±0.3	-0.1±0.2	0.01±0.01	-1.13±0.02	1.068±0.007	1.068±0.007	-0.001±0.004	0.022±0.006
130.7	-1.1±0.3	-0.1±0.2	0.01±0.01	-1.13±0.02	1.068±0.007	1.068±0.007	-0.001±0.004	0.020±0.006
140.8	-1.0±0.3	0.0±0.2	0.01±0.01	-1.13±0.02	1.068±0.007	1.068±0.007	-0.001±0.004	0.019±0.006

Table B.310 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-38 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.3±0.3	0.8±0.7	-0.77±0.01	-1.13±0.02	0.601±0.008	0.600±0.008	0.009±0.007	-0.045±0.003
4.7	3.5±0.3	0.4±0.6	-0.75±0.01	-1.15±0.02	0.636±0.007	0.635±0.007	0.004±0.007	-0.038±0.004
5.7	2.7±0.3	0.3±0.6	-0.70±0.01	-1.14±0.02	0.658±0.007	0.658±0.007	0.004±0.007	-0.031±0.004
6.7	1.9±0.3	0.1±0.5	-0.67±0.01	-1.14±0.02	0.684±0.007	0.683±0.007	0.002±0.006	-0.023±0.004
7.7	1.4±0.3	0.0±0.5	-0.64±0.01	-1.15±0.02	0.711±0.007	0.710±0.007	0.000±0.006	-0.017±0.004
8.7	0.9±0.3	0.0±0.5	-0.61±0.01	-1.15±0.02	0.736±0.007	0.736±0.007	0.000±0.006	-0.012±0.004
9.8	0.6±0.3	0.0±0.5	-0.59±0.01	-1.14±0.02	0.746±0.007	0.746±0.007	-0.001±0.006	-0.008±0.004
10.8	0.3±0.3	0.0±0.4	-0.55±0.01	-1.13±0.02	0.762±0.007	0.762±0.007	0.000±0.006	-0.004±0.004
11.8	0.1±0.3	0.1±0.4	-0.53±0.01	-1.14±0.02	0.783±0.007	0.783±0.007	0.001±0.006	-0.002±0.004
12.8	-0.1±0.3	0.1±0.4	-0.51±0.01	-1.13±0.02	0.793±0.007	0.793±0.007	0.001±0.006	0.001±0.004
13.8	-0.3±0.3	0.1±0.4	-0.49±0.01	-1.14±0.02	0.805±0.007	0.805±0.007	0.001±0.005	0.004±0.004
16.4	-0.5±0.3	0.1±0.4	-0.46±0.01	-1.15±0.02	0.829±0.007	0.829±0.007	0.001±0.005	0.008±0.005
18.9	-0.7±0.3	0.1±0.4	-0.43±0.01	-1.14±0.02	0.844±0.007	0.844±0.007	0.001±0.005	0.011±0.005
21.4	-0.9±0.3	0.0±0.3	-0.41±0.01	-1.14±0.02	0.855±0.007	0.854±0.007	0.000±0.005	0.013±0.005
24.0	-1.0±0.3	0.0±0.3	-0.39±0.01	-1.14±0.02	0.869±0.006	0.869±0.006	0.000±0.005	0.016±0.005
26.5	-1.2±0.3	0.0±0.3	-0.37±0.01	-1.14±0.02	0.876±0.006	0.876±0.006	0.000±0.005	0.019±0.005
29.1	-1.3±0.3	-0.1±0.3	-0.35±0.01	-1.14±0.02	0.891±0.006	0.891±0.006	-0.001±0.005	0.020±0.005
31.6	-1.4±0.3	-0.3±0.3	-0.34±0.01	-1.14±0.02	0.898±0.006	0.898±0.006	-0.004±0.005	0.021±0.005
34.1	-1.4±0.3	-0.2±0.3	-0.31±0.01	-1.14±0.02	0.909±0.006	0.909±0.006	-0.004±0.005	0.023±0.005
36.7	-1.5±0.3	-0.2±0.3	-0.29±0.01	-1.14±0.02	0.925±0.006	0.924±0.006	-0.003±0.005	0.024±0.005
39.2	-1.5±0.3	-0.2±0.3	-0.26±0.01	-1.14±0.02	0.937±0.006	0.936±0.006	-0.003±0.005	0.025±0.005
44.3	-1.6±0.3	-0.2±0.3	-0.22±0.01	-1.13±0.02	0.954±0.006	0.954±0.006	-0.003±0.005	0.027±0.005
49.4	-1.7±0.3	-0.2±0.3	-0.19±0.01	-1.14±0.02	0.973±0.006	0.972±0.006	-0.004±0.005	0.028±0.005
54.5	-1.7±0.3	-0.2±0.3	-0.15±0.01	-1.13±0.02	0.990±0.006	0.989±0.006	-0.004±0.004	0.029±0.005
59.5	-1.7±0.3	-0.2±0.2	-0.11±0.01	-1.13±0.02	1.011±0.006	1.011±0.006	-0.004±0.004	0.029±0.006
64.6	-1.7±0.3	-0.2±0.2	-0.08±0.01	-1.12±0.02	1.019±0.006	1.018±0.006	-0.004±0.004	0.029±0.006
69.7	-1.6±0.3	-0.3±0.2	-0.06±0.01	-1.13±0.02	1.035±0.007	1.034±0.007	-0.005±0.004	0.029±0.006
74.8	-1.6±0.3	-0.2±0.2	-0.03±0.01	-1.13±0.02	1.047±0.007	1.046±0.007	-0.004±0.004	0.030±0.006
79.9	-1.5±0.3	-0.2±0.2	-0.01±0.01	-1.13±0.02	1.054±0.007	1.054±0.007	-0.004±0.004	0.028±0.006
84.9	-1.4±0.3	-0.3±0.2	-0.01±0.01	-1.13±0.02	1.059±0.007	1.058±0.007	-0.005±0.004	0.027±0.006
90.0	-1.4±0.3	-0.2±0.2	0.00±0.01	-1.12±0.02	1.063±0.007	1.062±0.007	-0.004±0.004	0.026±0.006
100.2	-1.3±0.3	-0.2±0.2	0.01±0.01	-1.12±0.02	1.064±0.007	1.064±0.007	-0.003±0.004	0.024±0.006
110.3	-1.2±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.064±0.007	1.064±0.007	-0.001±0.004	0.023±0.006
120.5	-1.1±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.065±0.007	1.064±0.007	-0.001±0.004	0.021±0.006
130.7	-1.1±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.065±0.007	1.065±0.007	-0.001±0.004	0.020±0.006
140.8	-0.9±0.3	-0.1±0.2	0.01±0.01	-1.13±0.02	1.066±0.007	1.066±0.007	-0.001±0.004	0.017±0.006

Table B.311 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-32 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.1±0.3	0.6±0.8	-0.80±0.01	-1.13±0.02	0.578±0.008	0.576±0.008	0.006±0.008	-0.051±0.003
4.7	3.9±0.3	0.3±0.7	-0.75±0.01	-1.13±0.02	0.615±0.008	0.613±0.008	0.003±0.007	-0.042±0.003
5.7	2.9±0.3	0.3±0.6	-0.73±0.01	-1.15±0.02	0.645±0.007	0.645±0.007	0.003±0.007	-0.032±0.004
6.7	1.9±0.3	-0.2±0.6	-0.70±0.01	-1.15±0.02	0.675±0.007	0.674±0.007	-0.002±0.007	-0.022±0.004
7.7	1.2±0.3	-0.2±0.5	-0.64±0.01	-1.14±0.02	0.704±0.007	0.704±0.007	-0.002±0.006	-0.015±0.004
8.7	0.7±0.3	-0.1±0.5	-0.62±0.01	-1.14±0.02	0.726±0.007	0.726±0.007	-0.002±0.006	-0.009±0.004
9.8	0.3±0.3	-0.1±0.5	-0.58±0.01	-1.14±0.02	0.748±0.007	0.748±0.007	-0.002±0.006	-0.005±0.004
10.8	0.0±0.3	-0.1±0.4	-0.56±0.01	-1.16±0.02	0.770±0.007	0.770±0.007	-0.001±0.006	0.000±0.004
11.8	-0.2±0.3	-0.1±0.4	-0.52±0.01	-1.13±0.02	0.784±0.007	0.784±0.007	-0.001±0.006	0.003±0.004
12.8	-0.4±0.3	0.0±0.4	-0.51±0.01	-1.15±0.02	0.802±0.007	0.802±0.007	-0.001±0.005	0.006±0.004
13.8	-0.5±0.3	-0.1±0.4	-0.50±0.01	-1.15±0.02	0.806±0.007	0.806±0.007	-0.001±0.005	0.007±0.004
16.4	-0.8±0.3	-0.1±0.4	-0.45±0.01	-1.14±0.02	0.833±0.007	0.832±0.007	-0.001±0.005	0.012±0.005
18.9	-0.9±0.3	-0.2±0.4	-0.42±0.01	-1.14±0.02	0.848±0.007	0.848±0.007	-0.002±0.005	0.014±0.005
21.4	-1.1±0.3	-0.3±0.3	-0.40±0.01	-1.14±0.02	0.858±0.007	0.858±0.007	-0.004±0.005	0.016±0.005
24.0	-1.2±0.3	-0.3±0.3	-0.38±0.01	-1.14±0.02	0.873±0.006	0.873±0.006	-0.005±0.005	0.018±0.005
26.5	-1.3±0.3	-0.3±0.3	-0.36±0.01	-1.14±0.02	0.886±0.006	0.886±0.006	-0.005±0.005	0.020±0.005
29.1	-1.4±0.3	-0.4±0.3	-0.33±0.01	-1.13±0.02	0.892±0.006	0.891±0.006	-0.007±0.005	0.022±0.005
31.6	-1.4±0.3	-0.5±0.3	-0.32±0.01	-1.14±0.02	0.906±0.006	0.905±0.006	-0.008±0.005	0.022±0.005
34.1	-1.5±0.3	-0.5±0.3	-0.29±0.01	-1.13±0.02	0.916±0.006	0.915±0.006	-0.008±0.005	0.023±0.005
36.7	-1.6±0.3	-0.5±0.3	-0.28±0.01	-1.14±0.02	0.929±0.006	0.929±0.006	-0.008±0.005	0.025±0.005
39.2	-1.5±0.3	-0.5±0.3	-0.26±0.01	-1.14±0.02	0.940±0.006	0.940±0.006	-0.008±0.005	0.025±0.005
44.3	-1.6±0.3	-0.4±0.3	-0.21±0.01	-1.13±0.02	0.957±0.006	0.957±0.006	-0.007±0.005	0.026±0.005
49.4	-1.6±0.3	-0.4±0.3	-0.18±0.01	-1.14±0.02	0.977±0.006	0.976±0.006	-0.007±0.005	0.027±0.005
54.5	-1.6±0.3	-0.5±0.3	-0.14±0.01	-1.13±0.02	0.995±0.006	0.994±0.006	-0.009±0.004	0.028±0.005
59.5	-1.6±0.3	-0.6±0.2	-0.12±0.01	-1.13±0.02	1.007±0.006	1.007±0.006	-0.010±0.004	0.029±0.006
64.6	-1.6±0.3	-0.5±0.2	-0.09±0.01	-1.14±0.02	1.026±0.006	1.026±0.007	-0.008±0.004	0.029±0.006
69.7	-1.6±0.3	-0.4±0.2	-0.05±0.01	-1.13±0.02	1.038±0.007	1.037±0.007	-0.007±0.004	0.030±0.006
74.8	-1.6±0.3	-0.5±0.2	-0.04±0.01	-1.13±0.02	1.047±0.007	1.046±0.007	-0.008±0.004	0.029±0.006
79.9	-1.5±0.3	-0.3±0.2	-0.02±0.01	-1.13±0.02	1.053±0.007	1.053±0.007	-0.006±0.004	0.027±0.006
84.9	-1.4±0.3	-0.3±0.2	0.00±0.01	-1.12±0.02	1.058±0.007	1.058±0.007	-0.006±0.004	0.026±0.006
90.0	-1.3±0.3	-0.3±0.2	0.00±0.01	-1.12±0.02	1.062±0.007	1.062±0.007	-0.005±0.004	0.024±0.006
100.2	-1.2±0.3	-0.3±0.2	0.01±0.01	-1.12±0.02	1.063±0.007	1.063±0.007	-0.005±0.004	0.023±0.006
110.3	-1.1±0.3	-0.3±0.2	0.01±0.01	-1.12±0.02	1.064±0.007	1.064±0.007	-0.005±0.004	0.021±0.006
120.5	-1.1±0.3	-0.2±0.2	0.01±0.01	-1.12±0.02	1.063±0.007	1.063±0.007	-0.004±0.004	0.021±0.006
130.7	-1.0±0.3	-0.2±0.2	0.01±0.01	-1.12±0.02	1.064±0.007	1.064±0.007	-0.003±0.004	0.018±0.006
140.8	-0.9±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.064±0.007	1.064±0.007	-0.002±0.004	0.018±0.006

Table B.312 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-25 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.3±0.3	0.5±0.8	-0.82±0.01	-1.13±0.02	0.553±0.008	0.550±0.008	0.005±0.008	-0.060±0.003
4.7	4.8±0.3	0.0±0.7	-0.79±0.01	-1.14±0.02	0.589±0.008	0.587±0.008	0.000±0.008	-0.050±0.003
5.7	3.3±0.3	-0.4±0.7	-0.76±0.01	-1.13±0.02	0.613±0.008	0.612±0.008	-0.004±0.007	-0.035±0.003
6.7	2.1±0.3	-0.8±0.6	-0.72±0.01	-1.14±0.02	0.649±0.007	0.648±0.007	-0.009±0.007	-0.023±0.004
7.7	1.2±0.3	-0.8±0.5	-0.68±0.01	-1.15±0.02	0.687±0.007	0.687±0.007	-0.009±0.006	-0.014±0.004
8.7	0.5±0.3	-0.7±0.5	-0.65±0.01	-1.15±0.02	0.711±0.007	0.711±0.007	-0.009±0.006	-0.006±0.004
9.8	0.0±0.3	-0.7±0.5	-0.60±0.01	-1.13±0.02	0.727±0.007	0.727±0.007	-0.009±0.006	0.000±0.004
10.8	-0.3±0.3	-0.8±0.4	-0.57±0.01	-1.14±0.02	0.754±0.007	0.754±0.007	-0.011±0.006	0.004±0.004
11.8	-0.6±0.3	-0.8±0.4	-0.54±0.01	-1.14±0.02	0.776±0.007	0.776±0.007	-0.010±0.006	0.008±0.004
12.8	-0.7±0.3	-0.8±0.4	-0.52±0.01	-1.13±0.02	0.783±0.007	0.783±0.007	-0.011±0.006	0.009±0.004
13.8	-0.9±0.3	-0.8±0.4	-0.50±0.01	-1.13±0.02	0.794±0.007	0.794±0.007	-0.011±0.006	0.012±0.004
16.4	-1.1±0.3	-0.6±0.4	-0.45±0.01	-1.13±0.02	0.826±0.007	0.826±0.007	-0.009±0.005	0.016±0.005
18.9	-1.2±0.3	-0.6±0.4	-0.40±0.01	-1.12±0.02	0.848±0.007	0.848±0.007	-0.009±0.005	0.018±0.005
21.4	-1.2±0.3	-0.6±0.3	-0.38±0.01	-1.13±0.02	0.861±0.007	0.861±0.007	-0.010±0.005	0.018±0.005
24.0	-1.4±0.3	-0.6±0.3	-0.36±0.01	-1.13±0.02	0.875±0.007	0.875±0.007	-0.010±0.005	0.021±0.005
26.5	-1.4±0.3	-0.7±0.3	-0.35±0.01	-1.13±0.02	0.884±0.007	0.884±0.007	-0.011±0.005	0.021±0.005
29.1	-1.4±0.3	-0.8±0.3	-0.32±0.01	-1.13±0.02	0.899±0.007	0.898±0.007	-0.013±0.005	0.022±0.005
31.6	-1.5±0.3	-0.8±0.3	-0.31±0.01	-1.13±0.02	0.907±0.007	0.907±0.007	-0.013±0.005	0.023±0.005
34.1	-1.5±0.3	-0.8±0.3	-0.29±0.01	-1.14±0.02	0.922±0.007	0.922±0.007	-0.013±0.005	0.024±0.005
36.7	-1.4±0.3	-0.8±0.3	-0.27±0.01	-1.13±0.02	0.929±0.007	0.929±0.007	-0.014±0.005	0.023±0.005
39.2	-1.5±0.3	-0.8±0.3	-0.24±0.01	-1.12±0.02	0.941±0.007	0.940±0.007	-0.013±0.005	0.025±0.005
44.3	-1.5±0.3	-0.7±0.3	-0.20±0.01	-1.13±0.02	0.962±0.007	0.961±0.007	-0.013±0.005	0.026±0.005
49.4	-1.5±0.3	-0.7±0.3	-0.17±0.01	-1.13±0.02	0.977±0.007	0.976±0.007	-0.012±0.005	0.026±0.005
54.5	-1.6±0.3	-0.7±0.3	-0.14±0.01	-1.12±0.02	0.991±0.007	0.991±0.007	-0.012±0.004	0.028±0.005
59.5	-1.5±0.3	-0.7±0.3	-0.11±0.01	-1.12±0.02	1.004±0.007	1.004±0.007	-0.012±0.004	0.027±0.006
64.6	-1.6±0.3	-0.6±0.2	-0.08±0.01	-1.13±0.02	1.023±0.007	1.022±0.007	-0.011±0.004	0.028±0.006
69.7	-1.5±0.3	-0.6±0.2	-0.06±0.01	-1.12±0.02	1.029±0.007	1.028±0.007	-0.011±0.004	0.028±0.006
74.8	-1.5±0.3	-0.6±0.2	-0.04±0.01	-1.13±0.02	1.044±0.007	1.044±0.007	-0.010±0.004	0.027±0.006
79.9	-1.4±0.3	-0.5±0.2	-0.01±0.01	-1.12±0.02	1.051±0.007	1.051±0.007	-0.010±0.004	0.026±0.006
84.9	-1.4±0.3	-0.5±0.2	0.00±0.01	-1.12±0.02	1.055±0.007	1.055±0.007	-0.009±0.004	0.025±0.006
90.0	-1.3±0.3	-0.4±0.2	0.00±0.01	-1.12±0.02	1.059±0.007	1.059±0.007	-0.008±0.004	0.024±0.006
100.2	-1.2±0.3	-0.3±0.2	0.01±0.01	-1.12±0.02	1.061±0.007	1.060±0.007	-0.005±0.004	0.022±0.006
110.3	-1.1±0.3	-0.3±0.2	0.01±0.01	-1.12±0.02	1.061±0.007	1.061±0.007	-0.005±0.004	0.020±0.006
120.5	-1.0±0.3	-0.2±0.2	0.01±0.01	-1.12±0.02	1.062±0.007	1.061±0.007	-0.004±0.004	0.019±0.006
130.7	-1.0±0.3	-0.3±0.2	0.01±0.01	-1.12±0.02	1.061±0.007	1.061±0.007	-0.005±0.004	0.018±0.006
140.8	-0.9±0.3	-0.2±0.2	0.01±0.01	-1.12±0.02	1.062±0.007	1.062±0.007	-0.004±0.004	0.017±0.006

Table B.313 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-19 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.7±0.3	-0.5±0.8	-0.81±0.01	-1.14±0.02	0.575±0.008	0.571±0.008	-0.005±0.008	-0.067±0.003
4.7	4.8±0.3	-1.1±0.7	-0.77±0.01	-1.14±0.02	0.605±0.008	0.602±0.008	-0.012±0.007	-0.051±0.003
5.7	3.5±0.3	-1.6±0.6	-0.74±0.01	-1.14±0.02	0.633±0.007	0.632±0.007	-0.017±0.007	-0.039±0.004
6.7	2.4±0.3	-2.0±0.6	-0.70±0.01	-1.14±0.02	0.663±0.007	0.662±0.007	-0.023±0.007	-0.027±0.004
7.7	1.6±0.3	-1.8±0.5	-0.66±0.01	-1.14±0.02	0.699±0.007	0.698±0.007	-0.022±0.006	-0.019±0.004
8.7	0.8±0.3	-2.0±0.5	-0.62±0.01	-1.13±0.02	0.718±0.007	0.717±0.007	-0.025±0.006	-0.010±0.004
9.8	0.3±0.3	-1.9±0.5	-0.57±0.01	-1.13±0.02	0.748±0.007	0.748±0.007	-0.025±0.006	-0.004±0.004
10.8	0.0±0.3	-1.8±0.4	-0.55±0.01	-1.13±0.02	0.763±0.007	0.763±0.007	-0.024±0.006	0.001±0.004
11.8	-0.4±0.3	-1.6±0.4	-0.51±0.01	-1.14±0.02	0.788±0.007	0.787±0.007	-0.023±0.006	0.005±0.004
12.8	-0.6±0.3	-1.6±0.4	-0.49±0.01	-1.12±0.02	0.795±0.007	0.794±0.007	-0.022±0.006	0.008±0.004
13.8	-0.7±0.3	-1.5±0.4	-0.47±0.01	-1.13±0.02	0.814±0.007	0.814±0.007	-0.022±0.005	0.010±0.004
16.4	-0.9±0.3	-1.3±0.4	-0.42±0.01	-1.13±0.02	0.845±0.007	0.845±0.007	-0.020±0.005	0.013±0.005
18.9	-1.0±0.3	-1.3±0.3	-0.40±0.01	-1.14±0.02	0.864±0.006	0.864±0.006	-0.020±0.005	0.015±0.005
21.4	-1.1±0.3	-1.3±0.3	-0.37±0.01	-1.13±0.02	0.874±0.006	0.873±0.006	-0.019±0.005	0.017±0.005
24.0	-1.1±0.3	-1.2±0.3	-0.35±0.01	-1.14±0.02	0.889±0.006	0.888±0.006	-0.019±0.005	0.018±0.005
26.5	-1.2±0.3	-1.3±0.3	-0.33±0.01	-1.13±0.02	0.896±0.006	0.896±0.006	-0.020±0.005	0.019±0.005
29.1	-1.2±0.3	-1.3±0.3	-0.31±0.01	-1.15±0.02	0.917±0.006	0.917±0.006	-0.021±0.005	0.019±0.005
31.6	-1.3±0.3	-1.3±0.3	-0.28±0.01	-1.12±0.02	0.920±0.006	0.920±0.006	-0.021±0.005	0.021±0.005
34.1	-1.2±0.3	-1.3±0.3	-0.27±0.01	-1.13±0.02	0.931±0.006	0.930±0.006	-0.022±0.005	0.020±0.005
36.7	-1.2±0.3	-1.3±0.3	-0.24±0.01	-1.13±0.02	0.942±0.006	0.942±0.006	-0.022±0.005	0.020±0.005
39.2	-1.3±0.3	-1.2±0.3	-0.23±0.01	-1.14±0.02	0.956±0.006	0.956±0.006	-0.021±0.005	0.021±0.005
44.3	-1.3±0.3	-1.2±0.3	-0.19±0.01	-1.13±0.02	0.972±0.006	0.971±0.006	-0.021±0.005	0.022±0.005
49.4	-1.3±0.3	-1.2±0.3	-0.15±0.01	-1.13±0.02	0.986±0.006	0.986±0.006	-0.020±0.004	0.022±0.005
54.5	-1.3±0.3	-1.1±0.2	-0.13±0.01	-1.14±0.02	1.004±0.006	1.004±0.006	-0.019±0.004	0.023±0.006
59.5	-1.3±0.3	-1.1±0.2	-0.09±0.01	-1.13±0.02	1.018±0.006	1.018±0.006	-0.019±0.004	0.023±0.006
64.6	-1.3±0.3	-1.1±0.2	-0.06±0.01	-1.11±0.02	1.024±0.006	1.024±0.006	-0.019±0.004	0.023±0.006
69.7	-1.2±0.3	-1.0±0.2	-0.04±0.01	-1.11±0.02	1.035±0.007	1.034±0.007	-0.018±0.004	0.022±0.006
74.8	-1.2±0.3	-0.8±0.2	-0.02±0.01	-1.12±0.02	1.047±0.007	1.046±0.007	-0.014±0.004	0.023±0.006
79.9	-1.1±0.3	-0.8±0.2	-0.01±0.01	-1.11±0.02	1.050±0.007	1.050±0.007	-0.014±0.004	0.021±0.006
84.9	-1.0±0.3	-0.6±0.2	-0.01±0.01	-1.12±0.02	1.057±0.007	1.057±0.007	-0.011±0.004	0.019±0.006
90.0	-0.9±0.3	-0.5±0.2	0.00±0.01	-1.12±0.02	1.060±0.007	1.059±0.007	-0.009±0.004	0.018±0.006
100.2	-0.9±0.3	-0.3±0.2	0.01±0.01	-1.12±0.02	1.062±0.007	1.062±0.007	-0.005±0.004	0.016±0.006
110.3	-0.9±0.3	-0.3±0.2	0.01±0.01	-1.12±0.02	1.062±0.007	1.062±0.007	-0.005±0.004	0.016±0.006
120.5	-0.8±0.3	-0.3±0.2	0.01±0.01	-1.12±0.02	1.063±0.007	1.062±0.007	-0.005±0.004	0.014±0.006
130.7	-0.8±0.3	-0.3±0.2	0.01±0.01	-1.12±0.02	1.062±0.007	1.061±0.007	-0.005±0.004	0.014±0.006
140.8	-0.7±0.3	-0.1±0.2	0.01±0.01	-1.12±0.02	1.062±0.007	1.062±0.007	-0.003±0.004	0.013±0.006

Table B.314 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm,-13 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.9±0.3	-1.1±0.8	-0.82±0.01	-1.13±0.02	0.563±0.008	0.560±0.008	-0.011±0.008	-0.058±0.003
4.7	4.6±0.3	-1.9±0.7	-0.79±0.01	-1.13±0.02	0.587±0.008	0.585±0.008	-0.020±0.007	-0.048±0.003
5.7	3.4±0.3	-2.4±0.7	-0.76±0.01	-1.13±0.02	0.612±0.008	0.610±0.008	-0.025±0.007	-0.036±0.003
6.7	2.4±0.3	-2.8±0.6	-0.73±0.01	-1.13±0.02	0.636±0.007	0.634±0.007	-0.031±0.007	-0.027±0.004
7.7	1.7±0.3	-2.8±0.6	-0.69±0.01	-1.14±0.02	0.668±0.007	0.667±0.007	-0.032±0.007	-0.019±0.004
8.7	1.0±0.3	-2.8±0.5	-0.66±0.01	-1.14±0.02	0.689±0.007	0.688±0.007	-0.034±0.006	-0.012±0.004
9.8	0.4±0.3	-2.7±0.5	-0.64±0.01	-1.13±0.02	0.703±0.007	0.702±0.007	-0.034±0.006	-0.004±0.004
10.8	0.0±0.3	-2.8±0.5	-0.60±0.01	-1.12±0.02	0.722±0.007	0.722±0.007	-0.035±0.006	0.000±0.004
11.8	-0.3±0.3	-2.6±0.5	-0.57±0.01	-1.13±0.02	0.748±0.007	0.747±0.007	-0.035±0.006	0.004±0.004
12.8	-0.6±0.3	-2.7±0.4	-0.55±0.01	-1.12±0.02	0.757±0.007	0.756±0.007	-0.035±0.006	0.008±0.004
13.8	-0.7±0.3	-2.5±0.4	-0.51±0.01	-1.12±0.02	0.782±0.007	0.781±0.007	-0.034±0.006	0.010±0.004
16.4	-1.2±0.3	-2.3±0.4	-0.47±0.01	-1.14±0.02	0.813±0.007	0.812±0.007	-0.032±0.005	0.017±0.004
18.9	-1.3±0.3	-2.1±0.4	-0.41±0.01	-1.12±0.02	0.838±0.007	0.837±0.007	-0.031±0.005	0.018±0.005
21.4	-1.3±0.3	-2.2±0.3	-0.38±0.01	-1.13±0.02	0.864±0.007	0.863±0.007	-0.033±0.005	0.019±0.005
24.0	-1.3±0.3	-2.2±0.3	-0.36±0.01	-1.13±0.02	0.877±0.006	0.876±0.007	-0.033±0.005	0.020±0.005
26.5	-1.3±0.3	-2.1±0.3	-0.33±0.01	-1.13±0.02	0.892±0.006	0.891±0.006	-0.033±0.005	0.021±0.005
29.1	-1.3±0.3	-2.1±0.3	-0.30±0.01	-1.12±0.02	0.905±0.006	0.904±0.006	-0.033±0.005	0.021±0.005
31.6	-1.3±0.3	-2.0±0.3	-0.28±0.01	-1.13±0.02	0.921±0.006	0.920±0.006	-0.033±0.005	0.021±0.005
34.1	-1.2±0.3	-2.1±0.3	-0.26±0.01	-1.12±0.02	0.924±0.006	0.924±0.006	-0.033±0.005	0.020±0.005
36.7	-1.3±0.3	-2.0±0.3	-0.23±0.01	-1.11±0.02	0.937±0.006	0.936±0.006	-0.033±0.005	0.021±0.005
39.2	-1.2±0.3	-1.9±0.3	-0.23±0.01	-1.13±0.02	0.948±0.006	0.947±0.006	-0.032±0.005	0.020±0.005
44.3	-1.3±0.3	-1.8±0.3	-0.20±0.01	-1.14±0.02	0.971±0.006	0.970±0.006	-0.030±0.005	0.022±0.005
49.4	-1.3±0.3	-1.7±0.3	-0.15±0.01	-1.11±0.02	0.978±0.006	0.978±0.006	-0.029±0.004	0.022±0.005
54.5	-1.3±0.3	-1.6±0.3	-0.12±0.01	-1.11±0.02	0.996±0.006	0.995±0.006	-0.028±0.004	0.023±0.005
59.5	-1.3±0.3	-1.6±0.3	-0.10±0.01	-1.11±0.02	1.004±0.006	1.003±0.006	-0.028±0.004	0.023±0.006
64.6	-1.3±0.3	-1.4±0.2	-0.08±0.01	-1.11±0.02	1.018±0.006	1.018±0.007	-0.025±0.004	0.023±0.006
69.7	-1.3±0.3	-1.3±0.2	-0.05±0.01	-1.11±0.02	1.029±0.007	1.028±0.007	-0.023±0.004	0.023±0.006
74.8	-1.2±0.3	-1.1±0.2	-0.03±0.01	-1.11±0.02	1.039±0.007	1.039±0.007	-0.019±0.004	0.022±0.006
79.9	-1.1±0.3	-1.0±0.2	-0.02±0.01	-1.11±0.02	1.043±0.007	1.042±0.007	-0.018±0.004	0.020±0.006
84.9	-1.0±0.3	-0.8±0.2	-0.02±0.01	-1.11±0.02	1.043±0.007	1.043±0.007	-0.014±0.004	0.018±0.006
90.0	-1.0±0.3	-0.5±0.2	-0.01±0.01	-1.11±0.02	1.047±0.007	1.047±0.007	-0.010±0.004	0.018±0.006
100.2	-1.0±0.3	-0.3±0.2	-0.01±0.01	-1.11±0.02	1.051±0.007	1.051±0.007	-0.005±0.004	0.019±0.006
110.3	-1.0±0.3	-0.1±0.2	-0.01±0.01	-1.11±0.02	1.051±0.007	1.051±0.007	-0.002±0.004	0.019±0.006
120.5	-1.0±0.3	-0.1±0.2	0.00±0.01	-1.11±0.02	1.052±0.007	1.051±0.007	-0.001±0.004	0.019±0.006
130.7	-0.9±0.3	-0.2±0.2	-0.02±0.01	-1.12±0.02	1.046±0.007	1.046±0.007	-0.003±0.004	0.017±0.006
140.8	-0.9±0.3	-0.2±0.2	-0.03±0.01	-1.11±0.02	1.039±0.007	1.039±0.007	-0.004±0.004	0.017±0.006

Table B.315 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(378 mm, 0 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	1.0±0.3	-2.1±1.1	-0.87±0.01	-1.11±0.02	0.495±0.009	0.495±0.009	-0.018±0.009	-0.009±0.003
4.7	1.0±0.3	-3.6±1.0	-0.85±0.01	-1.11±0.02	0.512±0.009	0.511±0.009	-0.032±0.009	-0.009±0.003
5.7	1.1±0.3	-5.0±0.9	-0.83±0.01	-1.11±0.02	0.529±0.009	0.527±0.009	-0.046±0.008	-0.010±0.003
6.7	1.1±0.3	-5.6±0.9	-0.82±0.01	-1.12±0.02	0.545±0.008	0.543±0.009	-0.053±0.008	-0.010±0.003
7.7	1.1±0.3	-6.3±0.8	-0.80±0.01	-1.11±0.02	0.561±0.008	0.558±0.008	-0.062±0.008	-0.011±0.003
8.7	1.3±0.3	-6.7±0.8	-0.79±0.01	-1.11±0.02	0.571±0.008	0.567±0.008	-0.067±0.008	-0.012±0.003
9.8	1.2±0.3	-7.1±0.8	-0.77±0.01	-1.11±0.02	0.583±0.008	0.578±0.008	-0.073±0.008	-0.012±0.003
10.8	1.2±0.3	-7.5±0.7	-0.75±0.01	-1.11±0.02	0.593±0.008	0.588±0.008	-0.077±0.007	-0.012±0.003
11.8	1.1±0.3	-7.9±0.7	-0.75±0.01	-1.11±0.02	0.602±0.008	0.596±0.008	-0.082±0.007	-0.012±0.003
12.8	1.1±0.3	-8.0±0.7	-0.74±0.01	-1.11±0.02	0.612±0.008	0.606±0.008	-0.085±0.007	-0.012±0.003
13.8	1.0±0.3	-8.0±0.7	-0.72±0.01	-1.11±0.02	0.624±0.008	0.618±0.008	-0.087±0.007	-0.011±0.003
16.4	0.9±0.3	-8.2±0.7	-0.71±0.01	-1.11±0.02	0.637±0.008	0.630±0.008	-0.091±0.007	-0.010±0.003
18.9	0.7±0.3	-7.9±0.6	-0.68±0.01	-1.11±0.02	0.652±0.007	0.646±0.008	-0.090±0.007	-0.008±0.004
21.4	0.5±0.3	-7.7±0.6	-0.67±0.01	-1.10±0.02	0.662±0.007	0.656±0.008	-0.089±0.007	-0.006±0.004
24.0	0.4±0.3	-7.4±0.6	-0.65±0.01	-1.11±0.02	0.673±0.007	0.668±0.007	-0.086±0.007	-0.005±0.004
26.5	0.4±0.3	-7.3±0.6	-0.64±0.01	-1.10±0.02	0.678±0.007	0.673±0.007	-0.086±0.007	-0.005±0.004
29.1	0.4±0.3	-7.1±0.6	-0.63±0.01	-1.10±0.02	0.685±0.007	0.680±0.007	-0.084±0.006	-0.004±0.004
31.6	0.3±0.3	-6.7±0.5	-0.63±0.01	-1.11±0.02	0.697±0.007	0.692±0.007	-0.081±0.006	-0.003±0.004
34.1	0.2±0.3	-6.6±0.5	-0.62±0.01	-1.10±0.02	0.695±0.007	0.691±0.007	-0.080±0.006	-0.003±0.004
36.7	0.2±0.3	-6.4±0.5	-0.62±0.01	-1.11±0.02	0.697±0.007	0.693±0.007	-0.078±0.006	-0.003±0.004
39.2	0.2±0.3	-6.3±0.5	-0.61±0.01	-1.11±0.02	0.703±0.007	0.698±0.007	-0.077±0.006	-0.003±0.004
44.3	0.2±0.3	-6.0±0.5	-0.60±0.01	-1.10±0.02	0.711±0.007	0.708±0.007	-0.075±0.006	-0.003±0.004
49.4	0.1±0.3	-5.6±0.5	-0.59±0.01	-1.10±0.02	0.716±0.007	0.713±0.007	-0.070±0.006	-0.002±0.004
54.5	0.3±0.3	-5.5±0.5	-0.58±0.01	-1.10±0.02	0.720±0.007	0.717±0.007	-0.069±0.006	-0.004±0.004
59.5	0.4±0.3	-5.0±0.5	-0.57±0.01	-1.09±0.02	0.723±0.007	0.720±0.007	-0.063±0.006	-0.005±0.004
64.6	0.4±0.3	-4.6±0.5	-0.57±0.01	-1.10±0.02	0.725±0.007	0.723±0.007	-0.058±0.006	-0.005±0.004
69.7	0.6±0.3	-4.1±0.5	-0.57±0.01	-1.10±0.02	0.724±0.007	0.723±0.007	-0.052±0.006	-0.007±0.004
74.8	0.6±0.3	-3.6±0.5	-0.58±0.01	-1.10±0.02	0.722±0.007	0.720±0.007	-0.045±0.006	-0.007±0.004
79.9	0.8±0.3	-3.1±0.5	-0.59±0.01	-1.10±0.02	0.713±0.007	0.712±0.007	-0.038±0.006	-0.010±0.004
84.9	1.1±0.3	-2.8±0.5	-0.61±0.01	-1.10±0.02	0.698±0.007	0.697±0.007	-0.034±0.006	-0.014±0.004
90.0	1.1±0.3	-2.6±0.5	-0.62±0.01	-1.09±0.02	0.687±0.007	0.687±0.007	-0.031±0.006	-0.013±0.004
100.2	0.5±0.3	-2.0±0.6	-0.64±0.01	-1.09±0.02	0.674±0.007	0.674±0.007	-0.023±0.007	-0.006±0.004
110.3	0.5±0.3	-1.5±0.6	-0.65±0.01	-1.09±0.02	0.666±0.007	0.666±0.007	-0.018±0.007	-0.005±0.004
120.5	-0.4±0.3	-1.4±0.6	-0.65±0.01	-1.10±0.02	0.669±0.007	0.669±0.007	-0.016±0.007	0.005±0.004
130.7	0.1±0.3	-1.5±0.6	-0.68±0.01	-1.10±0.02	0.645±0.007	0.645±0.007	-0.017±0.007	-0.001±0.004
140.8	0.4±0.3	-2.0±0.6	-0.69±0.01	-1.10±0.02	0.640±0.007	0.639±0.007	-0.022±0.007	-0.004±0.004

Table B.316 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.6±0.3	1.0±0.5	-0.73±0.01	-1.21±0.02	0.689±0.007	0.689±0.007	0.012±0.006	0.007±0.004
4.7	-0.6±0.3	0.5±0.5	-0.70±0.01	-1.20±0.02	0.712±0.007	0.712±0.007	0.006±0.006	0.007±0.004
5.7	-0.6±0.3	0.3±0.5	-0.67±0.01	-1.20±0.02	0.727±0.007	0.727±0.007	0.004±0.006	0.008±0.004
6.7	-0.6±0.3	0.3±0.4	-0.64±0.01	-1.20±0.02	0.749±0.007	0.749±0.007	0.004±0.006	0.008±0.004
7.7	-0.6±0.3	0.1±0.4	-0.62±0.01	-1.20±0.02	0.763±0.007	0.763±0.007	0.001±0.006	0.008±0.004
8.7	-0.4±0.3	0.0±0.4	-0.60±0.01	-1.21±0.02	0.780±0.007	0.780±0.007	0.000±0.006	0.006±0.004
9.8	-0.5±0.3	-0.1±0.4	-0.58±0.01	-1.20±0.02	0.787±0.007	0.787±0.007	-0.001±0.006	0.007±0.004
10.8	-0.5±0.3	0.0±0.4	-0.57±0.01	-1.20±0.02	0.797±0.007	0.797±0.007	-0.001±0.006	0.007±0.004
11.8	-0.4±0.3	0.0±0.4	-0.54±0.01	-1.19±0.02	0.808±0.007	0.808±0.007	0.000±0.005	0.006±0.004
12.8	-0.4±0.3	0.0±0.4	-0.54±0.01	-1.21±0.02	0.815±0.007	0.815±0.007	0.000±0.005	0.005±0.004
13.8	-0.4±0.3	-0.1±0.4	-0.52±0.01	-1.21±0.02	0.828±0.007	0.828±0.007	-0.001±0.005	0.005±0.005
16.4	-0.3±0.3	-0.1±0.4	-0.49±0.01	-1.21±0.02	0.848±0.007	0.848±0.007	-0.001±0.005	0.005±0.005
18.9	-0.3±0.3	0.0±0.3	-0.46±0.01	-1.21±0.02	0.865±0.007	0.865±0.007	0.000±0.005	0.005±0.005
21.4	-0.3±0.3	0.0±0.3	-0.43±0.01	-1.19±0.02	0.877±0.006	0.877±0.006	-0.001±0.005	0.005±0.005
24.0	-0.3±0.3	0.0±0.3	-0.41±0.01	-1.22±0.02	0.897±0.006	0.897±0.006	0.000±0.005	0.005±0.005
26.5	-0.3±0.3	0.1±0.3	-0.38±0.01	-1.21±0.02	0.911±0.006	0.911±0.006	0.001±0.005	0.004±0.005
29.1	-0.3±0.3	0.1±0.3	-0.35±0.01	-1.21±0.02	0.926±0.006	0.926±0.006	0.001±0.005	0.004±0.005
31.6	-0.3±0.3	0.1±0.3	-0.33±0.01	-1.20±0.02	0.930±0.006	0.930±0.006	0.001±0.005	0.004±0.005
34.1	-0.3±0.3	0.1±0.3	-0.31±0.01	-1.20±0.02	0.945±0.006	0.945±0.006	0.002±0.005	0.005±0.005
36.7	-0.3±0.3	0.1±0.3	-0.28±0.01	-1.20±0.02	0.957±0.006	0.957±0.006	0.002±0.005	0.005±0.005
39.2	-0.3±0.3	0.1±0.3	-0.26±0.01	-1.20±0.02	0.969±0.006	0.969±0.006	0.002±0.005	0.005±0.005
44.3	-0.2±0.3	0.1±0.3	-0.21±0.01	-1.19±0.02	0.989±0.006	0.989±0.006	0.002±0.004	0.004±0.005
49.4	-0.3±0.3	0.2±0.2	-0.18±0.01	-1.20±0.02	1.010±0.007	1.010±0.007	0.004±0.004	0.005±0.006
54.5	-0.3±0.3	0.2±0.2	-0.15±0.01	-1.21±0.02	1.027±0.007	1.027±0.007	0.004±0.004	0.005±0.006
59.5	-0.3±0.3	0.3±0.2	-0.11±0.01	-1.20±0.02	1.044±0.007	1.044±0.007	0.006±0.004	0.006±0.006
64.6	-0.2±0.3	0.4±0.2	-0.08±0.01	-1.20±0.02	1.059±0.007	1.059±0.007	0.007±0.004	0.004±0.006
69.7	-0.2±0.3	0.4±0.2	-0.05±0.01	-1.20±0.02	1.072±0.007	1.072±0.007	0.007±0.004	0.004±0.006
74.8	-0.2±0.3	0.4±0.2	-0.03±0.01	-1.20±0.02	1.082±0.007	1.082±0.007	0.007±0.004	0.004±0.006
79.9	-0.2±0.3	0.4±0.2	-0.01±0.01	-1.20±0.02	1.090±0.007	1.090±0.007	0.008±0.004	0.003±0.006
84.9	-0.2±0.3	0.4±0.2	0.00±0.01	-1.20±0.02	1.094±0.007	1.094±0.007	0.008±0.004	0.003±0.006
90.0	-0.2±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.097±0.007	1.097±0.007	0.007±0.004	0.003±0.006
100.2	-0.1±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.099±0.007	1.099±0.007	0.008±0.004	0.002±0.006
110.3	-0.1±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.100±0.007	1.100±0.007	0.008±0.004	0.002±0.006
120.5	-0.1±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.100±0.007	1.100±0.007	0.008±0.004	0.001±0.006
130.7	0.0±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.100±0.007	1.100±0.007	0.007±0.004	0.000±0.006
140.8	0.0±0.3	0.4±0.2	0.01±0.01	-1.20±0.02	1.100±0.007	1.100±0.007	0.008±0.004	0.000±0.006

Table B.317 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.0±0.3	1.0±0.6	-0.74±0.01	-1.18±0.02	0.668±0.007	0.668±0.007	0.012±0.007	0.000±0.004
4.7	-0.2±0.3	0.5±0.5	-0.70±0.01	-1.19±0.02	0.697±0.007	0.697±0.007	0.006±0.006	0.002±0.004
5.7	-0.2±0.3	0.3±0.5	-0.68±0.01	-1.19±0.02	0.711±0.007	0.711±0.007	0.004±0.006	0.002±0.004
6.7	-0.1±0.3	0.3±0.5	-0.66±0.01	-1.19±0.02	0.728±0.007	0.728±0.007	0.003±0.006	0.002±0.004
7.7	-0.4±0.3	0.2±0.5	-0.64±0.01	-1.20±0.02	0.747±0.007	0.747±0.007	0.003±0.006	0.005±0.004
8.7	-0.2±0.3	0.0±0.4	-0.62±0.01	-1.19±0.02	0.756±0.007	0.756±0.007	0.000±0.006	0.002±0.004
9.8	-0.3±0.3	0.0±0.4	-0.61±0.01	-1.20±0.02	0.771±0.007	0.771±0.007	0.000±0.006	0.004±0.004
10.8	-0.3±0.3	-0.1±0.4	-0.58±0.01	-1.19±0.02	0.783±0.007	0.783±0.007	-0.001±0.006	0.003±0.004
11.8	-0.2±0.3	0.0±0.4	-0.56±0.01	-1.18±0.02	0.790±0.007	0.790±0.007	0.000±0.006	0.003±0.004
12.8	-0.2±0.3	0.0±0.4	-0.55±0.01	-1.20±0.02	0.806±0.007	0.806±0.007	0.000±0.005	0.003±0.004
13.8	-0.3±0.3	0.0±0.4	-0.54±0.01	-1.19±0.02	0.808±0.007	0.808±0.007	0.000±0.005	0.004±0.004
16.4	-0.3±0.3	0.1±0.4	-0.51±0.01	-1.20±0.02	0.833±0.007	0.833±0.007	0.001±0.005	0.004±0.005
18.9	-0.3±0.3	0.0±0.3	-0.47±0.01	-1.20±0.02	0.852±0.007	0.852±0.007	0.000±0.005	0.004±0.005
21.4	-0.3±0.3	0.1±0.3	-0.45±0.01	-1.20±0.02	0.866±0.006	0.866±0.006	0.001±0.005	0.004±0.005
24.0	-0.3±0.3	0.2±0.3	-0.42±0.01	-1.20±0.02	0.881±0.006	0.881±0.006	0.003±0.005	0.004±0.005
26.5	-0.3±0.3	0.2±0.3	-0.40±0.01	-1.20±0.02	0.898±0.006	0.898±0.006	0.003±0.005	0.005±0.005
29.1	-0.3±0.3	0.2±0.3	-0.37±0.01	-1.19±0.02	0.906±0.006	0.906±0.006	0.003±0.005	0.005±0.005
31.6	-0.3±0.3	0.2±0.3	-0.33±0.01	-1.18±0.02	0.922±0.006	0.922±0.006	0.003±0.005	0.005±0.005
34.1	-0.4±0.3	0.3±0.3	-0.32±0.01	-1.19±0.02	0.934±0.006	0.934±0.006	0.004±0.005	0.007±0.005
36.7	-0.4±0.3	0.2±0.3	-0.30±0.01	-1.19±0.02	0.947±0.006	0.947±0.006	0.003±0.005	0.007±0.005
39.2	-0.4±0.3	0.3±0.3	-0.27±0.01	-1.18±0.02	0.955±0.006	0.955±0.006	0.004±0.005	0.006±0.005
44.3	-0.4±0.3	0.3±0.3	-0.23±0.01	-1.19±0.02	0.979±0.006	0.979±0.006	0.005±0.004	0.006±0.005
49.4	-0.4±0.3	0.3±0.2	-0.19±0.01	-1.20±0.02	1.004±0.006	1.004±0.006	0.005±0.004	0.006±0.006
54.5	-0.4±0.3	0.3±0.2	-0.15±0.01	-1.18±0.02	1.017±0.006	1.017±0.006	0.006±0.004	0.008±0.006
59.5	-0.4±0.3	0.4±0.2	-0.11±0.01	-1.18±0.02	1.034±0.007	1.034±0.007	0.006±0.004	0.007±0.006
64.6	-0.4±0.3	0.3±0.2	-0.08±0.01	-1.18±0.02	1.051±0.007	1.051±0.007	0.006±0.004	0.007±0.006
69.7	-0.4±0.3	0.4±0.2	-0.05±0.01	-1.19±0.02	1.065±0.007	1.065±0.007	0.007±0.004	0.007±0.006
74.8	-0.4±0.3	0.4±0.2	-0.03±0.01	-1.18±0.02	1.074±0.007	1.074±0.007	0.007±0.004	0.007±0.006
79.9	-0.3±0.3	0.4±0.2	-0.01±0.01	-1.19±0.02	1.085±0.007	1.085±0.007	0.008±0.004	0.006±0.006
84.9	-0.3±0.3	0.4±0.2	0.00±0.01	-1.19±0.02	1.088±0.007	1.088±0.007	0.008±0.004	0.006±0.006
90.0	-0.3±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.008±0.004	0.006±0.006
100.2	-0.3±0.3	0.4±0.2	0.01±0.01	-1.19±0.02	1.093±0.007	1.093±0.007	0.008±0.004	0.006±0.006
110.3	-0.3±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.094±0.007	1.094±0.007	0.007±0.004	0.005±0.006
120.5	-0.2±0.3	0.3±0.2	0.01±0.01	-1.19±0.02	1.094±0.007	1.094±0.007	0.006±0.004	0.004±0.006
130.7	-0.1±0.3	0.3±0.2	0.01±0.01	-1.19±0.02	1.095±0.007	1.095±0.007	0.005±0.004	0.001±0.006
140.8	-0.1±0.3	0.3±0.2	0.01±0.01	-1.19±0.02	1.095±0.007	1.095±0.007	0.006±0.004	0.003±0.006

Table B.318 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.3±0.3	1.0±0.6	-0.73±0.01	-1.18±0.02	0.667±0.007	0.667±0.007	0.012±0.007	0.003±0.004
4.7	-0.3±0.3	0.5±0.5	-0.71±0.01	-1.19±0.02	0.692±0.007	0.692±0.007	0.006±0.006	0.003±0.004
5.7	-0.4±0.3	0.3±0.5	-0.68±0.01	-1.18±0.02	0.711±0.007	0.711±0.007	0.004±0.006	0.005±0.004
6.7	-0.4±0.3	0.2±0.5	-0.65±0.01	-1.18±0.02	0.726±0.007	0.726±0.007	0.003±0.006	0.005±0.004
7.7	-0.4±0.3	0.1±0.5	-0.63±0.01	-1.18±0.02	0.744±0.007	0.744±0.007	0.001±0.006	0.006±0.004
8.7	-0.5±0.3	0.1±0.4	-0.61±0.01	-1.17±0.02	0.754±0.007	0.754±0.007	0.001±0.006	0.006±0.004
9.8	-0.5±0.3	-0.1±0.4	-0.59±0.01	-1.18±0.02	0.770±0.007	0.770±0.007	-0.001±0.006	0.007±0.004
10.8	-0.5±0.3	-0.1±0.4	-0.57±0.01	-1.19±0.02	0.783±0.007	0.783±0.007	-0.001±0.006	0.007±0.004
11.8	-0.5±0.3	0.0±0.4	-0.55±0.01	-1.17±0.02	0.789±0.007	0.789±0.007	-0.001±0.006	0.007±0.004
12.8	-0.5±0.3	0.0±0.4	-0.53±0.01	-1.17±0.02	0.798±0.007	0.798±0.007	-0.001±0.006	0.007±0.004
13.8	-0.5±0.3	0.0±0.4	-0.53±0.01	-1.18±0.02	0.809±0.007	0.809±0.007	0.000±0.005	0.008±0.004
16.4	-0.6±0.3	0.0±0.4	-0.49±0.01	-1.17±0.02	0.828±0.007	0.828±0.007	0.000±0.005	0.008±0.005
18.9	-0.6±0.3	0.0±0.4	-0.46±0.01	-1.18±0.02	0.847±0.007	0.847±0.007	0.000±0.005	0.009±0.005
21.4	-0.6±0.3	0.0±0.3	-0.43±0.01	-1.18±0.02	0.865±0.007	0.865±0.007	0.000±0.005	0.009±0.005
24.0	-0.7±0.3	0.0±0.3	-0.40±0.01	-1.18±0.02	0.879±0.006	0.879±0.006	0.001±0.005	0.010±0.005
26.5	-0.7±0.3	0.0±0.3	-0.38±0.01	-1.18±0.02	0.896±0.006	0.896±0.006	0.001±0.005	0.010±0.005
29.1	-0.7±0.3	0.1±0.3	-0.36±0.01	-1.18±0.02	0.906±0.006	0.906±0.006	0.002±0.005	0.011±0.005
31.6	-0.7±0.3	0.1±0.3	-0.34±0.01	-1.18±0.02	0.916±0.006	0.916±0.006	0.001±0.005	0.012±0.005
34.1	-0.8±0.3	0.1±0.3	-0.31±0.01	-1.18±0.02	0.932±0.006	0.932±0.006	0.001±0.005	0.013±0.005
36.7	-0.8±0.3	0.1±0.3	-0.29±0.01	-1.18±0.02	0.942±0.006	0.942±0.006	0.002±0.005	0.014±0.005
39.2	-0.8±0.3	0.2±0.3	-0.27±0.01	-1.17±0.02	0.951±0.006	0.951±0.006	0.003±0.005	0.013±0.005
44.3	-0.9±0.3	0.2±0.3	-0.22±0.01	-1.17±0.02	0.971±0.006	0.971±0.006	0.003±0.005	0.015±0.005
49.4	-0.9±0.3	0.3±0.3	-0.19±0.01	-1.18±0.02	0.996±0.006	0.995±0.006	0.005±0.004	0.015±0.005
54.5	-0.9±0.3	0.3±0.2	-0.15±0.01	-1.18±0.02	1.014±0.007	1.013±0.007	0.006±0.004	0.016±0.006
59.5	-0.9±0.3	0.4±0.2	-0.12±0.01	-1.17±0.02	1.028±0.007	1.028±0.007	0.006±0.004	0.016±0.006
64.6	-0.9±0.3	0.4±0.2	-0.08±0.01	-1.17±0.02	1.043±0.007	1.043±0.007	0.007±0.004	0.017±0.006
69.7	-0.9±0.3	0.4±0.2	-0.05±0.01	-1.17±0.02	1.057±0.007	1.057±0.007	0.007±0.004	0.017±0.006
74.8	-0.9±0.3	0.4±0.2	-0.03±0.01	-1.17±0.02	1.069±0.007	1.069±0.007	0.007±0.004	0.017±0.006
79.9	-0.9±0.3	0.4±0.2	-0.01±0.01	-1.17±0.02	1.077±0.007	1.077±0.007	0.007±0.004	0.017±0.006
84.9	-0.9±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.082±0.007	1.081±0.007	0.007±0.004	0.017±0.006
90.0	-0.9±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.085±0.007	1.084±0.007	0.007±0.004	0.017±0.006
100.2	-0.8±0.3	0.3±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.006±0.004	0.016±0.006
110.3	-0.8±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.007±0.004	0.016±0.006
120.5	-0.7±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.088±0.007	1.088±0.007	0.007±0.004	0.014±0.006
130.7	-0.7±0.3	0.3±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.088±0.007	0.005±0.004	0.012±0.006
140.8	-0.7±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.088±0.007	0.004±0.004	0.012±0.006

Table B.319 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.5±0.3	1.1±0.6	-0.75±0.01	-1.18±0.02	0.656±0.007	0.656±0.007	0.012±0.007	-0.006±0.004
4.7	0.4±0.3	0.5±0.5	-0.72±0.01	-1.18±0.02	0.680±0.007	0.680±0.007	0.006±0.006	-0.005±0.004
5.7	0.3±0.3	0.3±0.5	-0.69±0.01	-1.18±0.02	0.703±0.007	0.703±0.007	0.004±0.006	-0.003±0.004
6.7	0.2±0.3	0.2±0.5	-0.66±0.01	-1.17±0.02	0.717±0.007	0.717±0.007	0.003±0.006	-0.003±0.004
7.7	0.1±0.3	0.0±0.5	-0.64±0.01	-1.18±0.02	0.734±0.007	0.734±0.007	0.000±0.006	-0.001±0.004
8.7	0.1±0.3	-0.1±0.5	-0.63±0.01	-1.18±0.02	0.745±0.007	0.745±0.007	-0.001±0.006	-0.001±0.004
9.8	0.1±0.3	-0.1±0.4	-0.61±0.01	-1.19±0.02	0.758±0.007	0.758±0.007	-0.001±0.006	-0.001±0.004
10.8	0.0±0.3	-0.1±0.4	-0.60±0.01	-1.20±0.02	0.776±0.007	0.776±0.007	-0.001±0.006	0.000±0.004
11.8	0.1±0.3	-0.1±0.4	-0.57±0.01	-1.18±0.02	0.781±0.007	0.781±0.007	-0.001±0.006	-0.001±0.004
12.8	0.0±0.3	0.0±0.4	-0.56±0.01	-1.18±0.02	0.786±0.007	0.786±0.007	-0.001±0.006	0.000±0.004
13.8	0.0±0.3	-0.1±0.4	-0.54±0.01	-1.18±0.02	0.796±0.007	0.796±0.007	-0.001±0.005	0.000±0.004
16.4	0.0±0.3	0.0±0.4	-0.51±0.01	-1.18±0.02	0.817±0.007	0.817±0.007	0.000±0.005	0.000±0.005
18.9	0.1±0.3	0.1±0.4	-0.48±0.01	-1.18±0.02	0.836±0.007	0.836±0.007	0.002±0.005	-0.001±0.005
21.4	0.1±0.3	0.1±0.3	-0.45±0.01	-1.17±0.02	0.853±0.006	0.853±0.006	0.002±0.005	-0.001±0.005
24.0	0.0±0.3	0.1±0.3	-0.43±0.01	-1.18±0.02	0.867±0.006	0.867±0.006	0.001±0.005	0.001±0.005
26.5	-0.1±0.3	0.2±0.3	-0.39±0.01	-1.18±0.02	0.886±0.006	0.886±0.006	0.002±0.005	0.001±0.005
29.1	-0.1±0.3	0.1±0.3	-0.37±0.01	-1.18±0.02	0.897±0.006	0.897±0.006	0.002±0.005	0.001±0.005
31.6	-0.1±0.3	0.3±0.3	-0.36±0.01	-1.18±0.02	0.908±0.006	0.908±0.006	0.004±0.005	0.002±0.005
34.1	-0.2±0.3	0.3±0.3	-0.33±0.01	-1.17±0.02	0.918±0.006	0.918±0.006	0.004±0.005	0.003±0.005
36.7	-0.2±0.3	0.3±0.3	-0.30±0.01	-1.18±0.02	0.936±0.006	0.936±0.006	0.005±0.005	0.004±0.005
39.2	-0.3±0.3	0.3±0.3	-0.28±0.01	-1.18±0.02	0.947±0.006	0.947±0.006	0.005±0.005	0.004±0.005
44.3	-0.3±0.3	0.3±0.3	-0.24±0.01	-1.17±0.02	0.968±0.006	0.968±0.006	0.006±0.005	0.005±0.005
49.4	-0.3±0.3	0.4±0.3	-0.20±0.01	-1.18±0.02	0.989±0.006	0.989±0.006	0.006±0.004	0.006±0.005
54.5	-0.4±0.3	0.4±0.2	-0.16±0.01	-1.18±0.02	1.008±0.006	1.008±0.006	0.006±0.004	0.007±0.006
59.5	-0.4±0.3	0.4±0.2	-0.13±0.01	-1.18±0.02	1.026±0.006	1.025±0.006	0.007±0.004	0.008±0.006
64.6	-0.5±0.3	0.4±0.2	-0.09±0.01	-1.17±0.02	1.041±0.007	1.041±0.007	0.007±0.004	0.009±0.006
69.7	-0.5±0.3	0.4±0.2	-0.06±0.01	-1.17±0.02	1.052±0.007	1.052±0.007	0.007±0.004	0.009±0.006
74.8	-0.5±0.3	0.4±0.2	-0.04±0.01	-1.18±0.02	1.067±0.007	1.067±0.007	0.007±0.004	0.009±0.006
79.9	-0.5±0.3	0.4±0.2	-0.02±0.01	-1.17±0.02	1.072±0.007	1.072±0.007	0.007±0.004	0.009±0.006
84.9	-0.5±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.080±0.007	1.080±0.007	0.008±0.004	0.009±0.006
90.0	-0.4±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.008±0.004	0.008±0.006
100.2	-0.3±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.008±0.004	0.006±0.006
110.3	-0.3±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.007±0.004	0.006±0.006
120.5	-0.3±0.3	0.3±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.006±0.004	0.006±0.006
130.7	-0.2±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.007±0.004	0.004±0.006
140.8	-0.2±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.004±0.004	0.004±0.006

Table B.320 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	1.6±0.3	1.1±0.6	-0.77±0.01	-1.17±0.02	0.631±0.007	0.631±0.007	0.012±0.007	-0.017±0.003
4.7	1.5±0.3	0.5±0.6	-0.75±0.01	-1.17±0.02	0.649±0.007	0.649±0.007	0.005±0.007	-0.017±0.004
5.7	1.3±0.3	0.4±0.6	-0.73±0.01	-1.18±0.02	0.672±0.007	0.672±0.007	0.005±0.007	-0.015±0.004
6.7	1.0±0.3	0.3±0.5	-0.70±0.01	-1.17±0.02	0.685±0.007	0.685±0.007	0.004±0.006	-0.012±0.004
7.7	0.8±0.3	0.3±0.5	-0.68±0.01	-1.17±0.02	0.701±0.007	0.701±0.007	0.004±0.006	-0.010±0.004
8.7	0.7±0.3	0.3±0.5	-0.66±0.01	-1.17±0.02	0.711±0.007	0.711±0.007	0.004±0.006	-0.008±0.004
9.8	0.5±0.3	0.3±0.5	-0.65±0.01	-1.17±0.02	0.723±0.007	0.723±0.007	0.004±0.006	-0.007±0.004
10.8	0.5±0.3	0.2±0.5	-0.62±0.01	-1.16±0.02	0.737±0.007	0.737±0.007	0.003±0.006	-0.006±0.004
11.8	0.4±0.3	0.3±0.4	-0.62±0.01	-1.19±0.02	0.757±0.007	0.757±0.007	0.004±0.006	-0.005±0.004
12.8	0.2±0.3	0.1±0.4	-0.59±0.01	-1.17±0.02	0.766±0.007	0.766±0.007	0.002±0.006	-0.003±0.004
13.8	0.1±0.3	0.3±0.4	-0.58±0.01	-1.17±0.02	0.772±0.007	0.772±0.007	0.004±0.006	-0.002±0.004
16.4	0.1±0.3	0.3±0.4	-0.54±0.01	-1.17±0.02	0.797±0.007	0.797±0.007	0.004±0.006	-0.001±0.004
18.9	-0.1±0.3	0.3±0.4	-0.51±0.01	-1.18±0.02	0.816±0.007	0.816±0.007	0.005±0.005	0.002±0.005
21.4	-0.2±0.3	0.4±0.4	-0.48±0.01	-1.16±0.02	0.829±0.007	0.829±0.007	0.005±0.005	0.003±0.005
24.0	-0.3±0.3	0.4±0.3	-0.46±0.01	-1.18±0.02	0.852±0.007	0.852±0.007	0.006±0.005	0.004±0.005
26.5	-0.3±0.3	0.4±0.3	-0.43±0.01	-1.18±0.02	0.865±0.006	0.865±0.006	0.006±0.005	0.005±0.005
29.1	-0.5±0.3	0.4±0.3	-0.40±0.01	-1.18±0.02	0.880±0.006	0.880±0.006	0.006±0.005	0.007±0.005
31.6	-0.5±0.3	0.4±0.3	-0.38±0.01	-1.17±0.02	0.892±0.006	0.892±0.006	0.006±0.005	0.008±0.005
34.1	-0.6±0.3	0.4±0.3	-0.36±0.01	-1.18±0.02	0.905±0.006	0.905±0.006	0.006±0.005	0.009±0.005
36.7	-0.6±0.3	0.4±0.3	-0.33±0.01	-1.17±0.02	0.918±0.006	0.918±0.006	0.007±0.005	0.010±0.005
39.2	-0.7±0.3	0.4±0.3	-0.31±0.01	-1.17±0.02	0.932±0.006	0.931±0.006	0.007±0.005	0.012±0.005
44.3	-0.8±0.3	0.4±0.3	-0.27±0.01	-1.17±0.02	0.954±0.006	0.953±0.006	0.007±0.005	0.014±0.005
49.4	-0.8±0.3	0.4±0.3	-0.21±0.01	-1.17±0.02	0.979±0.006	0.979±0.006	0.007±0.004	0.014±0.005
54.5	-0.9±0.3	0.4±0.3	-0.18±0.01	-1.17±0.02	0.999±0.006	0.999±0.006	0.008±0.004	0.015±0.006
59.5	-0.9±0.3	0.4±0.2	-0.13±0.01	-1.16±0.02	1.014±0.006	1.014±0.006	0.007±0.004	0.016±0.006
64.6	-1.0±0.3	0.4±0.2	-0.10±0.01	-1.17±0.02	1.031±0.007	1.031±0.007	0.007±0.004	0.017±0.006
69.7	-1.0±0.3	0.4±0.2	-0.08±0.01	-1.17±0.02	1.046±0.007	1.046±0.007	0.008±0.004	0.017±0.006
74.8	-1.0±0.3	0.4±0.2	-0.04±0.01	-1.17±0.02	1.060±0.007	1.060±0.007	0.008±0.004	0.018±0.006
79.9	-1.0±0.3	0.4±0.2	-0.02±0.01	-1.17±0.02	1.069±0.007	1.069±0.007	0.008±0.004	0.018±0.006
84.9	-0.9±0.3	0.4±0.2	-0.01±0.01	-1.17±0.02	1.077±0.007	1.076±0.007	0.008±0.004	0.017±0.006
90.0	-0.8±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.082±0.007	1.081±0.007	0.008±0.004	0.016±0.006
100.2	-0.8±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.008±0.004	0.015±0.006
110.3	-0.7±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	0.007±0.004	0.014±0.006
120.5	-0.7±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	0.007±0.004	0.013±0.006
130.7	-0.7±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.007±0.004	0.014±0.006
140.8	-0.7±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.086±0.007	0.007±0.004	0.013±0.006

Table B.321 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.3±0.3	1.1±0.6	-0.77±0.01	-1.17±0.02	0.633±0.007	0.632±0.007	0.012±0.007	-0.025±0.004
4.7	2.0±0.3	0.5±0.6	-0.75±0.01	-1.19±0.02	0.664±0.007	0.663±0.007	0.005±0.007	-0.023±0.004
5.7	1.8±0.3	0.3±0.6	-0.72±0.01	-1.17±0.02	0.674±0.007	0.674±0.007	0.004±0.007	-0.021±0.004
6.7	1.5±0.3	0.3±0.5	-0.70±0.01	-1.18±0.02	0.697±0.007	0.696±0.007	0.004±0.006	-0.018±0.004
7.7	1.3±0.3	0.2±0.5	-0.67±0.01	-1.17±0.02	0.710±0.007	0.710±0.007	0.003±0.006	-0.016±0.004
8.7	1.1±0.3	0.2±0.5	-0.65±0.01	-1.17±0.02	0.724±0.007	0.724±0.007	0.002±0.006	-0.014±0.004
9.8	1.0±0.3	0.1±0.5	-0.63±0.01	-1.17±0.02	0.737±0.007	0.737±0.007	0.001±0.006	-0.013±0.004
10.8	0.8±0.3	0.1±0.5	-0.62±0.01	-1.17±0.02	0.745±0.007	0.745±0.007	0.001±0.006	-0.010±0.004
11.8	0.6±0.3	0.2±0.4	-0.60±0.01	-1.18±0.02	0.760±0.007	0.760±0.007	0.002±0.006	-0.008±0.004
12.8	0.6±0.3	0.2±0.4	-0.58±0.01	-1.18±0.02	0.772±0.007	0.772±0.007	0.003±0.006	-0.008±0.004
13.8	0.4±0.3	0.2±0.4	-0.56±0.01	-1.17±0.02	0.781±0.007	0.781±0.007	0.003±0.006	-0.005±0.004
16.4	0.3±0.3	0.3±0.4	-0.53±0.01	-1.18±0.02	0.804±0.007	0.804±0.007	0.005±0.006	-0.004±0.004
18.9	0.1±0.3	0.3±0.4	-0.50±0.01	-1.17±0.02	0.822±0.007	0.822±0.007	0.005±0.005	-0.002±0.005
21.4	-0.1±0.3	0.3±0.4	-0.48±0.01	-1.17±0.02	0.832±0.007	0.832±0.007	0.005±0.005	0.002±0.005
24.0	-0.2±0.3	0.4±0.4	-0.44±0.01	-1.16±0.02	0.849±0.007	0.849±0.007	0.005±0.005	0.004±0.005
26.5	-0.4±0.3	0.4±0.3	-0.42±0.01	-1.17±0.02	0.865±0.007	0.865±0.007	0.006±0.005	0.005±0.005
29.1	-0.5±0.3	0.4±0.3	-0.40±0.01	-1.17±0.02	0.879±0.007	0.879±0.007	0.006±0.005	0.007±0.005
31.6	-0.5±0.3	0.4±0.3	-0.37±0.01	-1.17±0.02	0.898±0.007	0.898±0.007	0.006±0.005	0.008±0.005
34.1	-0.6±0.3	0.4±0.3	-0.36±0.01	-1.19±0.02	0.910±0.006	0.910±0.006	0.006±0.005	0.010±0.005
36.7	-0.6±0.3	0.4±0.3	-0.34±0.01	-1.18±0.02	0.920±0.006	0.920±0.006	0.007±0.005	0.010±0.005
39.2	-0.8±0.3	0.4±0.3	-0.31±0.01	-1.18±0.02	0.933±0.006	0.933±0.006	0.007±0.005	0.012±0.005
44.3	-0.8±0.3	0.4±0.3	-0.25±0.01	-1.17±0.02	0.956±0.006	0.956±0.006	0.007±0.005	0.013±0.005
49.4	-0.9±0.3	0.4±0.3	-0.22±0.01	-1.17±0.02	0.973±0.006	0.972±0.006	0.007±0.005	0.016±0.005
54.5	-1.0±0.3	0.4±0.3	-0.19±0.01	-1.18±0.02	0.996±0.007	0.996±0.007	0.007±0.004	0.017±0.005
59.5	-1.0±0.3	0.4±0.2	-0.13±0.01	-1.16±0.02	1.012±0.007	1.012±0.007	0.007±0.004	0.017±0.006
64.6	-1.0±0.3	0.4±0.2	-0.10±0.01	-1.17±0.02	1.031±0.007	1.031±0.007	0.007±0.004	0.018±0.006
69.7	-1.0±0.3	0.4±0.2	-0.08±0.01	-1.18±0.02	1.046±0.007	1.046±0.007	0.007±0.004	0.019±0.006
74.8	-1.0±0.3	0.4±0.2	-0.05±0.01	-1.17±0.02	1.056±0.007	1.056±0.007	0.007±0.004	0.019±0.006
79.9	-1.0±0.3	0.4±0.2	-0.03±0.01	-1.16±0.02	1.065±0.007	1.065±0.007	0.007±0.004	0.019±0.006
84.9	-1.0±0.3	0.4±0.2	-0.01±0.01	-1.17±0.02	1.074±0.007	1.074±0.007	0.008±0.004	0.018±0.006
90.0	-0.9±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.080±0.007	1.079±0.007	0.007±0.004	0.018±0.006
100.2	-0.9±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.083±0.007	1.083±0.007	0.007±0.004	0.016±0.006
110.3	-0.8±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.007±0.004	0.015±0.006
120.5	-0.8±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.007±0.004	0.015±0.006
130.7	-0.8±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.004±0.004	0.014±0.006
140.8	-0.8±0.3	0.3±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	0.006±0.004	0.015±0.006

Table B.322 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-83 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.7±0.3	1.1±0.6	-0.77±0.01	-1.18±0.02	0.635±0.007	0.634±0.007	0.012±0.007	-0.029±0.004
4.7	2.4±0.3	0.5±0.6	-0.75±0.01	-1.18±0.02	0.656±0.007	0.656±0.007	0.005±0.007	-0.027±0.004
5.7	1.9±0.3	0.4±0.6	-0.73±0.01	-1.18±0.02	0.673±0.007	0.673±0.007	0.004±0.007	-0.023±0.004
6.7	1.8±0.3	0.3±0.5	-0.70±0.01	-1.17±0.02	0.686±0.007	0.686±0.007	0.004±0.006	-0.021±0.004
7.7	1.5±0.3	0.3±0.5	-0.68±0.01	-1.18±0.02	0.703±0.007	0.703±0.007	0.004±0.006	-0.018±0.004
8.7	1.4±0.3	0.2±0.5	-0.65±0.01	-1.17±0.02	0.719±0.007	0.719±0.007	0.003±0.006	-0.017±0.004
9.8	1.1±0.3	0.3±0.5	-0.64±0.01	-1.19±0.02	0.738±0.007	0.738±0.007	0.004±0.006	-0.014±0.004
10.8	0.9±0.3	0.2±0.5	-0.62±0.01	-1.18±0.02	0.746±0.007	0.746±0.007	0.003±0.006	-0.012±0.004
11.8	0.8±0.3	0.3±0.4	-0.61±0.01	-1.18±0.02	0.761±0.007	0.761±0.007	0.004±0.006	-0.011±0.004
12.8	0.7±0.3	0.2±0.4	-0.59±0.01	-1.19±0.02	0.770±0.007	0.770±0.007	0.002±0.006	-0.009±0.004
13.8	0.5±0.3	0.3±0.4	-0.58±0.01	-1.19±0.02	0.782±0.007	0.781±0.007	0.004±0.006	-0.007±0.004
16.4	0.4±0.3	0.3±0.4	-0.53±0.01	-1.18±0.02	0.806±0.007	0.806±0.007	0.004±0.005	-0.005±0.004
18.9	0.2±0.3	0.3±0.4	-0.51±0.01	-1.18±0.02	0.821±0.007	0.820±0.007	0.005±0.005	-0.002±0.005
21.4	0.0±0.3	0.4±0.4	-0.48±0.01	-1.19±0.02	0.844±0.007	0.844±0.007	0.005±0.005	0.000±0.005
24.0	-0.2±0.3	0.4±0.3	-0.46±0.01	-1.19±0.02	0.857±0.007	0.857±0.007	0.005±0.005	0.003±0.005
26.5	-0.3±0.3	0.4±0.3	-0.42±0.01	-1.18±0.02	0.871±0.007	0.871±0.007	0.006±0.005	0.004±0.005
29.1	-0.4±0.3	0.4±0.3	-0.40±0.01	-1.18±0.02	0.884±0.007	0.884±0.007	0.006±0.005	0.006±0.005
31.6	-0.4±0.3	0.4±0.3	-0.38±0.01	-1.17±0.02	0.893±0.007	0.892±0.007	0.006±0.005	0.006±0.005
34.1	-0.6±0.3	0.4±0.3	-0.36±0.01	-1.19±0.02	0.912±0.006	0.912±0.006	0.007±0.005	0.009±0.005
36.7	-0.6±0.3	0.4±0.3	-0.34±0.01	-1.19±0.02	0.924±0.006	0.924±0.006	0.006±0.005	0.010±0.005
39.2	-0.7±0.3	0.4±0.3	-0.31±0.01	-1.18±0.02	0.934±0.006	0.934±0.006	0.006±0.005	0.011±0.005
44.3	-0.8±0.3	0.4±0.3	-0.26±0.01	-1.18±0.02	0.960±0.006	0.960±0.006	0.007±0.005	0.013±0.005
49.4	-0.8±0.3	0.4±0.3	-0.22±0.01	-1.18±0.02	0.976±0.007	0.976±0.007	0.006±0.005	0.014±0.005
54.5	-0.9±0.3	0.4±0.3	-0.18±0.01	-1.18±0.02	0.997±0.007	0.997±0.007	0.007±0.004	0.016±0.006
59.5	-1.0±0.3	0.4±0.2	-0.15±0.01	-1.18±0.02	1.015±0.007	1.015±0.007	0.007±0.004	0.017±0.006
64.6	-1.0±0.3	0.4±0.2	-0.11±0.01	-1.17±0.02	1.030±0.007	1.030±0.007	0.007±0.004	0.018±0.006
69.7	-1.0±0.3	0.4±0.2	-0.09±0.01	-1.19±0.02	1.048±0.007	1.048±0.007	0.007±0.004	0.019±0.006
74.8	-1.0±0.3	0.4±0.2	-0.06±0.01	-1.18±0.02	1.060±0.007	1.060±0.007	0.007±0.004	0.018±0.006
79.9	-0.9±0.3	0.4±0.2	-0.03±0.01	-1.18±0.02	1.070±0.007	1.070±0.007	0.007±0.004	0.017±0.006
84.9	-0.9±0.3	0.4±0.2	-0.01±0.01	-1.18±0.02	1.079±0.007	1.079±0.007	0.007±0.004	0.017±0.006
90.0	-0.9±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.083±0.007	1.083±0.007	0.007±0.004	0.017±0.006
100.2	-0.8±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.088±0.007	1.087±0.007	0.007±0.004	0.015±0.006
110.3	-0.7±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.088±0.007	1.088±0.007	0.007±0.004	0.014±0.006
120.5	-0.7±0.3	0.3±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.006±0.004	0.013±0.006
130.7	-0.7±0.3	0.3±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.006±0.004	0.013±0.006
140.8	-0.6±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.004±0.004	0.011±0.006

Table B.323 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.8±0.3	1.1±0.6	-0.77±0.01	-1.17±0.02	0.630±0.007	0.629±0.007	0.012±0.007	-0.031±0.003
4.7	2.6±0.3	0.5±0.6	-0.74±0.01	-1.16±0.02	0.651±0.007	0.651±0.007	0.006±0.007	-0.030±0.004
5.7	2.3±0.3	0.4±0.6	-0.71±0.01	-1.16±0.02	0.671±0.007	0.670±0.007	0.005±0.007	-0.027±0.004
6.7	1.8±0.3	0.3±0.5	-0.69±0.01	-1.16±0.02	0.687±0.007	0.686±0.007	0.004±0.006	-0.022±0.004
7.7	1.6±0.3	0.3±0.5	-0.67±0.01	-1.17±0.02	0.706±0.007	0.706±0.007	0.004±0.006	-0.020±0.004
8.7	1.5±0.3	0.3±0.5	-0.66±0.01	-1.18±0.02	0.721±0.007	0.721±0.007	0.004±0.006	-0.018±0.004
9.8	1.1±0.3	0.3±0.5	-0.63±0.01	-1.16±0.02	0.729±0.007	0.729±0.007	0.004±0.006	-0.014±0.004
10.8	1.0±0.3	0.2±0.5	-0.62±0.01	-1.16±0.02	0.738±0.007	0.738±0.007	0.003±0.006	-0.013±0.004
11.8	0.8±0.3	0.3±0.5	-0.60±0.01	-1.16±0.02	0.747±0.007	0.747±0.007	0.004±0.006	-0.011±0.004
12.8	0.8±0.3	0.3±0.4	-0.59±0.01	-1.18±0.02	0.771±0.007	0.770±0.007	0.004±0.006	-0.010±0.004
13.8	0.6±0.3	0.3±0.4	-0.57±0.01	-1.18±0.02	0.782±0.007	0.782±0.007	0.005±0.006	-0.008±0.004
16.4	0.3±0.3	0.4±0.4	-0.52±0.01	-1.17±0.02	0.801±0.007	0.801±0.007	0.005±0.006	-0.004±0.004
18.9	0.1±0.3	0.4±0.4	-0.49±0.01	-1.16±0.02	0.818±0.007	0.818±0.007	0.005±0.005	-0.002±0.005
21.4	-0.1±0.3	0.4±0.4	-0.47±0.01	-1.17±0.02	0.841±0.007	0.841±0.007	0.006±0.005	0.001±0.005
24.0	-0.2±0.3	0.4±0.3	-0.44±0.01	-1.17±0.02	0.854±0.007	0.854±0.007	0.005±0.005	0.003±0.005
26.5	-0.4±0.3	0.4±0.3	-0.42±0.01	-1.16±0.02	0.862±0.007	0.862±0.007	0.006±0.005	0.006±0.005
29.1	-0.5±0.3	0.4±0.3	-0.39±0.01	-1.16±0.02	0.878±0.007	0.878±0.007	0.006±0.005	0.007±0.005
31.6	-0.6±0.3	0.4±0.3	-0.37±0.01	-1.16±0.02	0.887±0.007	0.887±0.007	0.007±0.005	0.010±0.005
34.1	-0.7±0.3	0.4±0.3	-0.35±0.01	-1.16±0.02	0.900±0.007	0.900±0.007	0.006±0.005	0.011±0.005
36.7	-0.8±0.3	0.4±0.3	-0.33±0.01	-1.16±0.02	0.914±0.007	0.914±0.007	0.006±0.005	0.013±0.005
39.2	-0.8±0.3	0.4±0.3	-0.30±0.01	-1.16±0.02	0.927±0.007	0.927±0.006	0.006±0.005	0.013±0.005
44.3	-0.9±0.3	0.4±0.3	-0.27±0.01	-1.17±0.02	0.949±0.007	0.949±0.006	0.006±0.005	0.015±0.005
49.4	-1.0±0.3	0.4±0.3	-0.22±0.01	-1.17±0.02	0.976±0.007	0.976±0.007	0.006±0.005	0.017±0.005
54.5	-1.1±0.3	0.4±0.3	-0.18±0.01	-1.16±0.02	0.990±0.007	0.990±0.007	0.006±0.004	0.019±0.005
59.5	-1.1±0.3	0.4±0.2	-0.15±0.01	-1.16±0.02	1.009±0.007	1.009±0.007	0.007±0.004	0.019±0.006
64.6	-1.1±0.3	0.4±0.2	-0.11±0.01	-1.16±0.02	1.026±0.007	1.026±0.007	0.007±0.004	0.021±0.006
69.7	-1.1±0.3	0.4±0.2	-0.08±0.01	-1.16±0.02	1.041±0.007	1.041±0.007	0.007±0.004	0.020±0.006
74.8	-1.1±0.3	0.4±0.2	-0.05±0.01	-1.16±0.02	1.054±0.007	1.054±0.007	0.007±0.004	0.020±0.006
79.9	-1.1±0.3	0.4±0.2	-0.03±0.01	-1.17±0.02	1.065±0.007	1.065±0.007	0.007±0.004	0.021±0.006
84.9	-1.0±0.3	0.4±0.2	-0.01±0.01	-1.16±0.02	1.072±0.007	1.072±0.007	0.007±0.004	0.019±0.006
90.0	-1.1±0.3	0.4±0.2	0.00±0.01	-1.16±0.02	1.075±0.007	1.075±0.007	0.007±0.004	0.020±0.006
100.2	-0.9±0.3	0.4±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.007±0.004	0.017±0.006
110.3	-0.9±0.3	0.3±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.005±0.004	0.017±0.006
120.5	-0.9±0.3	0.3±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.005±0.004	0.017±0.006
130.7	-0.8±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.004±0.004	0.015±0.006
140.8	-0.7±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.004±0.004	0.014±0.006

Table B.324 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.3±0.3	1.1±0.7	-0.78±0.01	-1.18±0.02	0.628±0.008	0.627±0.007	0.012±0.007	-0.037±0.003
4.7	3.0±0.3	0.7±0.6	-0.75±0.01	-1.17±0.02	0.650±0.007	0.649±0.007	0.007±0.007	-0.034±0.004
5.7	2.6±0.3	0.4±0.6	-0.73±0.01	-1.17±0.02	0.669±0.007	0.668±0.007	0.005±0.007	-0.031±0.004
6.7	2.2±0.3	0.4±0.5	-0.71±0.01	-1.19±0.02	0.693±0.007	0.692±0.007	0.004±0.006	-0.026±0.004
7.7	2.0±0.3	0.3±0.5	-0.69±0.01	-1.17±0.02	0.698±0.007	0.698±0.007	0.004±0.006	-0.024±0.004
8.7	1.7±0.3	0.3±0.5	-0.66±0.01	-1.17±0.02	0.712±0.007	0.712±0.007	0.004±0.006	-0.021±0.004
9.8	1.4±0.3	0.3±0.5	-0.65±0.01	-1.19±0.02	0.729±0.007	0.729±0.007	0.004±0.006	-0.018±0.004
10.8	1.2±0.3	0.3±0.5	-0.63±0.01	-1.18±0.02	0.745±0.007	0.745±0.007	0.004±0.006	-0.016±0.004
11.8	0.9±0.3	0.3±0.4	-0.60±0.01	-1.17±0.02	0.754±0.007	0.753±0.007	0.004±0.006	-0.012±0.004
12.8	0.8±0.3	0.3±0.4	-0.59±0.01	-1.17±0.02	0.761±0.007	0.761±0.007	0.004±0.006	-0.011±0.004
13.8	0.6±0.3	0.3±0.4	-0.58±0.01	-1.19±0.02	0.779±0.007	0.779±0.007	0.004±0.006	-0.009±0.004
16.4	0.4±0.3	0.3±0.4	-0.54±0.01	-1.17±0.02	0.797±0.007	0.797±0.007	0.005±0.006	-0.005±0.004
18.9	0.2±0.3	0.4±0.4	-0.51±0.01	-1.19±0.02	0.821±0.007	0.821±0.007	0.005±0.005	-0.003±0.005
21.4	0.0±0.3	0.5±0.4	-0.47±0.01	-1.17±0.02	0.833±0.007	0.833±0.007	0.007±0.005	0.001±0.005
24.0	-0.2±0.3	0.4±0.3	-0.45±0.01	-1.18±0.02	0.857±0.007	0.857±0.007	0.006±0.005	0.003±0.005
26.5	-0.4±0.3	0.4±0.3	-0.43±0.01	-1.19±0.02	0.870±0.007	0.870±0.007	0.006±0.005	0.006±0.005
29.1	-0.5±0.3	0.4±0.3	-0.41±0.01	-1.17±0.02	0.874±0.007	0.874±0.007	0.007±0.005	0.008±0.005
31.6	-0.7±0.3	0.4±0.3	-0.38±0.01	-1.19±0.02	0.898±0.007	0.897±0.007	0.006±0.005	0.010±0.005
34.1	-0.7±0.3	0.4±0.3	-0.36±0.01	-1.19±0.02	0.909±0.007	0.909±0.007	0.006±0.005	0.011±0.005
36.7	-0.8±0.3	0.4±0.3	-0.34±0.01	-1.18±0.02	0.919±0.007	0.919±0.007	0.006±0.005	0.012±0.005
39.2	-0.9±0.3	0.4±0.3	-0.32±0.01	-1.18±0.02	0.931±0.007	0.930±0.007	0.006±0.005	0.014±0.005
44.3	-1.0±0.3	0.4±0.3	-0.27±0.01	-1.18±0.02	0.952±0.007	0.952±0.007	0.007±0.005	0.016±0.005
49.4	-1.0±0.3	0.3±0.3	-0.23±0.01	-1.18±0.02	0.974±0.007	0.974±0.007	0.006±0.005	0.017±0.005
54.5	-1.1±0.3	0.4±0.3	-0.18±0.01	-1.17±0.02	0.995±0.007	0.994±0.007	0.006±0.004	0.019±0.005
59.5	-1.2±0.3	0.4±0.2	-0.15±0.01	-1.18±0.02	1.016±0.007	1.015±0.007	0.006±0.004	0.021±0.006
64.6	-1.1±0.3	0.4±0.2	-0.11±0.01	-1.16±0.02	1.027±0.007	1.027±0.007	0.006±0.004	0.020±0.006
69.7	-1.2±0.3	0.3±0.2	-0.07±0.01	-1.16±0.02	1.044±0.007	1.044±0.007	0.006±0.004	0.022±0.006
74.8	-1.2±0.3	0.4±0.2	-0.06±0.01	-1.17±0.02	1.054±0.007	1.054±0.007	0.007±0.004	0.021±0.006
79.9	-1.1±0.3	0.3±0.2	-0.03±0.01	-1.17±0.02	1.067±0.007	1.067±0.007	0.005±0.004	0.021±0.006
84.9	-1.1±0.3	0.3±0.2	-0.01±0.01	-1.17±0.02	1.075±0.007	1.075±0.007	0.006±0.004	0.020±0.006
90.0	-1.1±0.3	0.3±0.2	0.00±0.01	-1.17±0.02	1.079±0.007	1.079±0.007	0.006±0.004	0.020±0.006
100.2	-0.9±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.007±0.004	0.017±0.006
110.3	-0.8±0.3	0.3±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.006±0.004	0.016±0.006
120.5	-0.8±0.3	0.3±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.006±0.004	0.016±0.006
130.7	-0.8±0.3	0.3±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	0.005±0.004	0.016±0.006
140.8	-0.7±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	0.004±0.004	0.014±0.006

Table B.325 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.9±0.3	1.1±0.6	-0.76±0.01	-1.17±0.02	0.635±0.007	0.634±0.007	0.012±0.007	-0.043±0.004
4.7	3.3±0.3	0.6±0.6	-0.74±0.01	-1.17±0.02	0.655±0.007	0.654±0.007	0.007±0.007	-0.038±0.004
5.7	2.8±0.3	0.5±0.6	-0.72±0.01	-1.17±0.02	0.668±0.007	0.667±0.007	0.005±0.007	-0.033±0.004
6.7	2.6±0.3	0.3±0.5	-0.69±0.01	-1.17±0.02	0.689±0.007	0.688±0.007	0.004±0.006	-0.031±0.004
7.7	2.1±0.3	0.3±0.5	-0.67±0.01	-1.17±0.02	0.708±0.007	0.707±0.007	0.004±0.006	-0.026±0.004
8.7	1.8±0.3	0.3±0.5	-0.66±0.01	-1.17±0.02	0.714±0.007	0.714±0.007	0.004±0.006	-0.022±0.004
9.8	1.6±0.3	0.3±0.5	-0.64±0.01	-1.17±0.02	0.733±0.007	0.733±0.007	0.004±0.006	-0.020±0.004
10.8	1.4±0.3	0.3±0.5	-0.61±0.01	-1.16±0.02	0.744±0.007	0.744±0.007	0.004±0.006	-0.018±0.004
11.8	1.1±0.3	0.3±0.4	-0.59±0.01	-1.17±0.02	0.757±0.007	0.757±0.007	0.004±0.006	-0.015±0.004
12.8	0.9±0.3	0.3±0.4	-0.58±0.01	-1.18±0.02	0.772±0.007	0.772±0.007	0.004±0.006	-0.012±0.004
13.8	0.7±0.3	0.3±0.4	-0.56±0.01	-1.17±0.02	0.779±0.007	0.779±0.007	0.004±0.006	-0.010±0.004
16.4	0.3±0.3	0.3±0.4	-0.52±0.01	-1.18±0.02	0.808±0.007	0.808±0.007	0.005±0.006	-0.005±0.004
18.9	0.2±0.3	0.3±0.4	-0.49±0.01	-1.17±0.02	0.827±0.007	0.827±0.007	0.005±0.005	-0.003±0.005
21.4	-0.1±0.3	0.3±0.4	-0.46±0.01	-1.17±0.02	0.841±0.007	0.841±0.007	0.005±0.005	0.001±0.005
24.0	-0.2±0.3	0.4±0.4	-0.44±0.01	-1.17±0.02	0.854±0.007	0.854±0.007	0.005±0.005	0.003±0.005
26.5	-0.3±0.3	0.4±0.3	-0.41±0.01	-1.18±0.02	0.872±0.007	0.872±0.007	0.005±0.005	0.005±0.005
29.1	-0.5±0.3	0.4±0.3	-0.39±0.01	-1.17±0.02	0.884±0.007	0.884±0.007	0.006±0.005	0.008±0.005
31.6	-0.7±0.3	0.4±0.3	-0.37±0.01	-1.17±0.02	0.894±0.007	0.894±0.007	0.006±0.005	0.010±0.005
34.1	-0.7±0.3	0.4±0.3	-0.34±0.01	-1.17±0.02	0.906±0.007	0.906±0.007	0.006±0.005	0.011±0.005
36.7	-0.9±0.3	0.4±0.3	-0.33±0.01	-1.17±0.02	0.916±0.007	0.916±0.007	0.006±0.005	0.014±0.005
39.2	-1.0±0.3	0.4±0.3	-0.30±0.01	-1.17±0.02	0.933±0.007	0.932±0.007	0.006±0.005	0.016±0.005
44.3	-1.0±0.3	0.3±0.3	-0.27±0.01	-1.18±0.02	0.955±0.007	0.955±0.007	0.005±0.005	0.017±0.005
49.4	-1.1±0.3	0.2±0.3	-0.21±0.01	-1.16±0.02	0.972±0.007	0.972±0.007	0.004±0.005	0.019±0.005
54.5	-1.2±0.3	0.3±0.3	-0.18±0.01	-1.17±0.02	0.995±0.007	0.995±0.007	0.005±0.004	0.021±0.005
59.5	-1.2±0.3	0.2±0.3	-0.15±0.01	-1.17±0.02	1.010±0.007	1.010±0.007	0.004±0.004	0.022±0.006
64.6	-1.2±0.3	0.3±0.2	-0.10±0.01	-1.16±0.02	1.026±0.007	1.026±0.007	0.005±0.004	0.022±0.006
69.7	-1.2±0.3	0.2±0.2	-0.08±0.01	-1.16±0.02	1.043±0.007	1.043±0.007	0.003±0.004	0.023±0.006
74.8	-1.2±0.3	0.2±0.2	-0.05±0.01	-1.16±0.02	1.055±0.007	1.054±0.007	0.004±0.004	0.022±0.006
79.9	-1.2±0.3	0.2±0.2	-0.03±0.01	-1.16±0.02	1.066±0.007	1.065±0.007	0.005±0.004	0.022±0.006
84.9	-1.1±0.3	0.2±0.2	-0.01±0.01	-1.16±0.02	1.073±0.007	1.073±0.007	0.004±0.004	0.021±0.006
90.0	-1.0±0.3	0.2±0.2	0.00±0.01	-1.17±0.02	1.078±0.007	1.078±0.007	0.005±0.004	0.019±0.006
100.2	-1.0±0.3	0.3±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.005±0.004	0.019±0.006
110.3	-1.0±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.081±0.007	0.004±0.004	0.018±0.006
120.5	-0.9±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.003±0.004	0.017±0.006
130.7	-0.9±0.3	0.3±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.005±0.004	0.017±0.006
140.8	-0.8±0.3	0.3±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	0.005±0.004	0.015±0.006

Table B.326 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.2±0.3	1.3±0.7	-0.77±0.01	-1.17±0.02	0.628±0.007	0.626±0.007	0.014±0.007	-0.046±0.003
4.7	3.9±0.3	0.7±0.6	-0.74±0.01	-1.16±0.02	0.648±0.007	0.647±0.007	0.008±0.007	-0.044±0.004
5.7	3.2±0.3	0.5±0.6	-0.72±0.01	-1.17±0.02	0.667±0.007	0.666±0.007	0.005±0.007	-0.037±0.004
6.7	2.7±0.3	0.4±0.5	-0.70±0.01	-1.17±0.02	0.689±0.007	0.688±0.007	0.004±0.006	-0.033±0.004
7.7	2.4±0.3	0.3±0.5	-0.67±0.01	-1.16±0.02	0.703±0.007	0.703±0.007	0.004±0.006	-0.029±0.004
8.7	2.0±0.3	0.3±0.5	-0.65±0.01	-1.17±0.02	0.718±0.007	0.717±0.007	0.004±0.006	-0.025±0.004
9.8	1.7±0.3	0.3±0.5	-0.64±0.01	-1.17±0.02	0.734±0.007	0.734±0.007	0.004±0.006	-0.022±0.004
10.8	1.4±0.3	0.3±0.5	-0.61±0.01	-1.17±0.02	0.747±0.007	0.746±0.007	0.004±0.006	-0.018±0.004
11.8	1.1±0.3	0.3±0.4	-0.59±0.01	-1.17±0.02	0.757±0.007	0.757±0.007	0.004±0.006	-0.015±0.004
12.8	0.9±0.3	0.3±0.4	-0.58±0.01	-1.17±0.02	0.770±0.007	0.770±0.007	0.004±0.006	-0.012±0.004
13.8	0.7±0.3	0.4±0.4	-0.56±0.01	-1.18±0.02	0.788±0.007	0.788±0.007	0.005±0.006	-0.009±0.004
16.4	0.4±0.3	0.3±0.4	-0.52±0.01	-1.18±0.02	0.808±0.007	0.808±0.007	0.005±0.006	-0.005±0.004
18.9	0.1±0.3	0.4±0.4	-0.49±0.01	-1.17±0.02	0.824±0.007	0.824±0.007	0.005±0.005	-0.001±0.005
21.4	-0.2±0.3	0.4±0.4	-0.45±0.01	-1.16±0.02	0.847±0.007	0.846±0.007	0.005±0.005	0.003±0.005
24.0	-0.4±0.3	0.3±0.3	-0.44±0.01	-1.17±0.02	0.854±0.007	0.854±0.007	0.005±0.005	0.006±0.005
26.5	-0.5±0.3	0.4±0.3	-0.41±0.01	-1.17±0.02	0.874±0.007	0.874±0.007	0.005±0.005	0.008±0.005
29.1	-0.6±0.3	0.3±0.3	-0.39±0.01	-1.17±0.02	0.881±0.007	0.881±0.007	0.005±0.005	0.010±0.005
31.6	-0.7±0.3	0.3±0.3	-0.37±0.01	-1.18±0.02	0.897±0.007	0.897±0.007	0.005±0.005	0.011±0.005
34.1	-0.9±0.3	0.3±0.3	-0.34±0.01	-1.16±0.02	0.905±0.007	0.905±0.007	0.005±0.005	0.014±0.005
36.7	-0.9±0.3	0.3±0.3	-0.32±0.01	-1.17±0.02	0.921±0.007	0.921±0.007	0.005±0.005	0.014±0.005
39.2	-1.1±0.3	0.3±0.3	-0.30±0.01	-1.17±0.02	0.928±0.007	0.928±0.007	0.004±0.005	0.017±0.005
44.3	-1.2±0.3	0.2±0.3	-0.26±0.01	-1.16±0.02	0.949±0.007	0.949±0.007	0.003±0.005	0.020±0.005
49.4	-1.2±0.3	0.2±0.3	-0.21±0.01	-1.17±0.02	0.976±0.007	0.976±0.007	0.003±0.005	0.021±0.005
54.5	-1.3±0.3	0.1±0.3	-0.17±0.01	-1.16±0.02	0.995±0.007	0.995±0.007	0.002±0.004	0.023±0.005
59.5	-1.2±0.3	0.1±0.2	-0.14±0.01	-1.16±0.02	1.012±0.007	1.011±0.007	0.002±0.004	0.022±0.006
64.6	-1.3±0.3	0.1±0.2	-0.11±0.01	-1.17±0.02	1.028±0.007	1.028±0.007	0.002±0.004	0.024±0.006
69.7	-1.3±0.3	0.1±0.2	-0.07±0.01	-1.16±0.02	1.041±0.007	1.041±0.007	0.003±0.004	0.024±0.006
74.8	-1.3±0.3	0.1±0.2	-0.05±0.01	-1.15±0.02	1.052±0.007	1.052±0.007	0.003±0.004	0.023±0.006
79.9	-1.2±0.3	0.1±0.2	-0.03±0.01	-1.16±0.02	1.063±0.007	1.063±0.007	0.003±0.004	0.022±0.006
84.9	-1.2±0.3	0.2±0.2	-0.01±0.01	-1.16±0.02	1.070±0.007	1.070±0.007	0.003±0.004	0.022±0.006
90.0	-1.2±0.3	0.2±0.2	0.00±0.01	-1.16±0.02	1.075±0.007	1.075±0.007	0.003±0.004	0.022±0.006
100.2	-1.0±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	0.003±0.004	0.019±0.006
110.3	-0.9±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	0.003±0.004	0.018±0.006
120.5	-0.9±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	0.003±0.004	0.018±0.006
130.7	-0.9±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.079±0.007	0.003±0.004	0.016±0.006
140.8	-0.7±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.079±0.007	1.079±0.007	0.003±0.004	0.014±0.006

Table B.327 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.7±0.3	1.2±0.7	-0.77±0.01	-1.16±0.02	0.620±0.008	0.618±0.008	0.013±0.007	-0.051±0.003
4.7	4.3±0.3	0.6±0.6	-0.75±0.01	-1.16±0.02	0.645±0.007	0.644±0.007	0.007±0.007	-0.048±0.004
5.7	3.7±0.3	0.5±0.6	-0.72±0.01	-1.17±0.02	0.666±0.007	0.665±0.007	0.005±0.007	-0.043±0.004
6.7	3.2±0.3	0.3±0.5	-0.69±0.01	-1.16±0.02	0.688±0.007	0.687±0.007	0.004±0.007	-0.039±0.004
7.7	2.6±0.3	0.3±0.5	-0.67±0.01	-1.16±0.02	0.698±0.007	0.698±0.007	0.004±0.006	-0.032±0.004
8.7	2.2±0.3	0.3±0.5	-0.65±0.01	-1.16±0.02	0.715±0.007	0.715±0.007	0.004±0.006	-0.028±0.004
9.8	1.9±0.3	0.3±0.5	-0.63±0.01	-1.17±0.02	0.736±0.007	0.736±0.007	0.004±0.006	-0.024±0.004
10.8	1.5±0.3	0.3±0.5	-0.60±0.01	-1.16±0.02	0.750±0.007	0.749±0.007	0.003±0.006	-0.020±0.004
11.8	1.2±0.3	0.2±0.4	-0.59±0.01	-1.17±0.02	0.761±0.007	0.761±0.007	0.003±0.006	-0.016±0.004
12.8	1.0±0.3	0.3±0.4	-0.56±0.01	-1.16±0.02	0.774±0.007	0.774±0.007	0.004±0.006	-0.013±0.004
13.8	0.8±0.3	0.2±0.4	-0.55±0.01	-1.16±0.02	0.785±0.007	0.785±0.007	0.003±0.006	-0.011±0.004
16.4	0.4±0.3	0.3±0.4	-0.50±0.01	-1.16±0.02	0.812±0.007	0.812±0.007	0.004±0.006	-0.005±0.004
18.9	0.1±0.3	0.4±0.4	-0.47±0.01	-1.16±0.02	0.832±0.007	0.832±0.007	0.005±0.005	-0.002±0.005
21.4	-0.1±0.3	0.3±0.4	-0.44±0.01	-1.16±0.02	0.850±0.007	0.850±0.007	0.005±0.005	0.001±0.005
24.0	-0.3±0.3	0.3±0.3	-0.41±0.01	-1.15±0.02	0.859±0.007	0.859±0.007	0.004±0.005	0.004±0.005
26.5	-0.4±0.3	0.2±0.3	-0.40±0.01	-1.16±0.02	0.873±0.007	0.873±0.007	0.003±0.005	0.006±0.005
29.1	-0.5±0.3	0.1±0.3	-0.38±0.01	-1.17±0.02	0.888±0.007	0.888±0.007	0.002±0.005	0.008±0.005
31.6	-0.6±0.3	0.2±0.3	-0.35±0.01	-1.15±0.02	0.898±0.007	0.898±0.007	0.003±0.005	0.010±0.005
34.1	-0.7±0.3	0.1±0.3	-0.33±0.01	-1.16±0.02	0.912±0.007	0.912±0.007	0.001±0.005	0.011±0.005
36.7	-0.8±0.3	0.1±0.3	-0.31±0.01	-1.16±0.02	0.921±0.007	0.921±0.007	0.001±0.005	0.013±0.005
39.2	-0.9±0.3	0.1±0.3	-0.29±0.01	-1.16±0.02	0.931±0.007	0.931±0.007	0.001±0.005	0.015±0.005
44.3	-1.0±0.3	0.1±0.3	-0.24±0.01	-1.15±0.02	0.950±0.007	0.949±0.007	0.001±0.005	0.017±0.005
49.4	-1.1±0.3	0.1±0.3	-0.21±0.01	-1.17±0.02	0.979±0.007	0.979±0.007	0.001±0.005	0.018±0.005
54.5	-1.1±0.3	0.1±0.3	-0.17±0.01	-1.15±0.02	0.991±0.007	0.991±0.007	0.001±0.005	0.020±0.005
59.5	-1.1±0.3	0.0±0.3	-0.14±0.01	-1.15±0.02	1.008±0.007	1.008±0.007	0.000±0.004	0.020±0.006
64.6	-1.1±0.3	0.1±0.2	-0.10±0.01	-1.15±0.02	1.028±0.007	1.028±0.007	0.002±0.004	0.021±0.006
69.7	-1.1±0.3	0.1±0.2	-0.07±0.01	-1.16±0.02	1.040±0.007	1.039±0.007	0.002±0.004	0.020±0.006
74.8	-1.1±0.3	0.1±0.2	-0.04±0.01	-1.14±0.02	1.046±0.007	1.046±0.007	0.002±0.004	0.021±0.006
79.9	-1.1±0.3	0.1±0.2	-0.03±0.01	-1.16±0.02	1.063±0.007	1.063±0.007	0.002±0.004	0.020±0.006
84.9	-1.0±0.3	0.1±0.2	-0.01±0.01	-1.15±0.02	1.069±0.007	1.068±0.007	0.003±0.004	0.019±0.006
90.0	-0.9±0.3	0.1±0.2	0.00±0.01	-1.16±0.02	1.074±0.007	1.074±0.007	0.002±0.004	0.018±0.006
100.2	-0.9±0.3	0.1±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	0.003±0.004	0.017±0.006
110.3	-0.8±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	0.003±0.004	0.015±0.006
120.5	-0.8±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	0.003±0.004	0.014±0.006
130.7	-0.6±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	0.003±0.004	0.012±0.006
140.8	-0.6±0.3	0.3±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	0.005±0.004	0.011±0.006

Table B.328 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.4±0.3	1.2±0.7	-0.77±0.01	-1.16±0.02	0.620±0.008	0.617±0.008	0.013±0.007	-0.058±0.003
4.7	4.7±0.3	0.6±0.6	-0.75±0.01	-1.16±0.02	0.645±0.007	0.642±0.007	0.007±0.007	-0.053±0.004
5.7	3.9±0.3	0.5±0.6	-0.72±0.01	-1.17±0.02	0.667±0.007	0.665±0.007	0.005±0.007	-0.046±0.004
6.7	3.3±0.3	0.4±0.5	-0.70±0.01	-1.16±0.02	0.681±0.007	0.679±0.007	0.004±0.007	-0.039±0.004
7.7	2.6±0.3	0.3±0.5	-0.68±0.01	-1.17±0.02	0.699±0.007	0.699±0.007	0.004±0.006	-0.032±0.004
8.7	2.1±0.3	0.2±0.5	-0.66±0.01	-1.18±0.02	0.722±0.007	0.721±0.007	0.003±0.006	-0.027±0.004
9.8	1.7±0.3	0.1±0.5	-0.62±0.01	-1.16±0.02	0.736±0.007	0.735±0.007	0.002±0.006	-0.022±0.004
10.8	1.4±0.3	0.1±0.4	-0.60±0.01	-1.17±0.02	0.753±0.007	0.753±0.007	0.001±0.006	-0.018±0.004
11.8	1.1±0.3	0.1±0.4	-0.58±0.01	-1.17±0.02	0.768±0.007	0.768±0.007	0.001±0.006	-0.014±0.004
12.8	0.7±0.3	0.1±0.4	-0.56±0.01	-1.17±0.02	0.781±0.007	0.781±0.007	0.002±0.006	-0.010±0.004
13.8	0.6±0.3	0.1±0.4	-0.54±0.01	-1.17±0.02	0.794±0.007	0.793±0.007	0.001±0.006	-0.008±0.004
16.4	0.1±0.3	0.0±0.4	-0.49±0.01	-1.16±0.02	0.818±0.007	0.818±0.007	0.000±0.005	-0.002±0.005
18.9	-0.2±0.3	0.0±0.4	-0.46±0.01	-1.16±0.02	0.838±0.007	0.838±0.007	0.001±0.005	0.002±0.005
21.4	-0.3±0.3	0.0±0.3	-0.42±0.01	-1.15±0.02	0.858±0.007	0.858±0.007	0.000±0.005	0.004±0.005
24.0	-0.4±0.3	0.0±0.3	-0.40±0.01	-1.16±0.02	0.871±0.007	0.871±0.007	0.000±0.005	0.006±0.005
26.5	-0.6±0.3	0.0±0.3	-0.39±0.01	-1.17±0.02	0.881±0.007	0.881±0.007	0.000±0.005	0.010±0.005
29.1	-0.7±0.3	0.0±0.3	-0.36±0.01	-1.16±0.02	0.895±0.006	0.895±0.006	0.000±0.005	0.012±0.005
31.6	-0.8±0.3	-0.1±0.3	-0.34±0.01	-1.16±0.02	0.907±0.006	0.907±0.006	-0.001±0.005	0.013±0.005
34.1	-1.0±0.3	-0.1±0.3	-0.32±0.01	-1.17±0.02	0.921±0.006	0.921±0.006	-0.002±0.005	0.015±0.005
36.7	-1.0±0.3	-0.2±0.3	-0.30±0.01	-1.17±0.02	0.930±0.006	0.930±0.006	-0.003±0.005	0.017±0.005
39.2	-1.1±0.3	-0.2±0.3	-0.28±0.01	-1.16±0.02	0.937±0.006	0.937±0.006	-0.002±0.005	0.018±0.005
44.3	-1.2±0.3	-0.2±0.3	-0.24±0.01	-1.15±0.02	0.959±0.006	0.959±0.006	-0.003±0.005	0.020±0.005
49.4	-1.2±0.3	-0.2±0.3	-0.20±0.01	-1.14±0.02	0.973±0.006	0.973±0.006	-0.003±0.005	0.020±0.005
54.5	-1.2±0.3	-0.1±0.3	-0.16±0.01	-1.16±0.02	0.996±0.007	0.996±0.007	-0.002±0.004	0.022±0.005
59.5	-1.3±0.3	-0.1±0.2	-0.13±0.01	-1.16±0.02	1.015±0.007	1.015±0.007	-0.002±0.004	0.023±0.006
64.6	-1.3±0.3	-0.1±0.2	-0.09±0.01	-1.15±0.02	1.031±0.007	1.030±0.007	-0.002±0.004	0.023±0.006
69.7	-1.3±0.3	-0.1±0.2	-0.06±0.01	-1.15±0.02	1.043±0.007	1.042±0.007	-0.002±0.004	0.024±0.006
74.8	-1.2±0.3	-0.1±0.2	-0.04±0.01	-1.16±0.02	1.055±0.007	1.055±0.007	-0.001±0.004	0.023±0.006
79.9	-1.2±0.3	-0.1±0.2	-0.02±0.01	-1.16±0.02	1.064±0.007	1.063±0.007	-0.001±0.004	0.022±0.006
84.9	-1.2±0.3	-0.1±0.2	-0.01±0.01	-1.15±0.02	1.069±0.007	1.069±0.007	-0.001±0.004	0.022±0.006
90.0	-1.1±0.3	-0.1±0.2	0.00±0.01	-1.15±0.02	1.074±0.007	1.074±0.007	-0.001±0.004	0.021±0.006
100.2	-1.0±0.3	0.0±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	-0.001±0.004	0.019±0.006
110.3	-0.9±0.3	0.0±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	0.001±0.004	0.016±0.006
120.5	-0.8±0.3	0.1±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	0.003±0.004	0.015±0.006
130.7	-0.8±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	0.003±0.004	0.015±0.006
140.8	-0.7±0.3	0.2±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	0.003±0.004	0.013±0.006

Table B.329 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-38 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.4±0.3	1.3±0.7	-0.78±0.01	-1.16±0.02	0.614±0.008	0.610±0.008	0.014±0.007	-0.068±0.003
4.7	5.5±0.3	0.5±0.6	-0.76±0.01	-1.16±0.02	0.635±0.008	0.632±0.007	0.006±0.007	-0.060±0.004
5.7	4.6±0.3	0.4±0.6	-0.74±0.01	-1.17±0.02	0.657±0.007	0.655±0.007	0.005±0.007	-0.053±0.004
6.7	3.7±0.3	0.3±0.6	-0.71±0.01	-1.17±0.02	0.678±0.007	0.676±0.007	0.004±0.007	-0.044±0.004
7.7	2.9±0.3	0.0±0.5	-0.69±0.01	-1.16±0.02	0.692±0.007	0.691±0.007	0.000±0.006	-0.036±0.004
8.7	2.3±0.3	-0.2±0.5	-0.66±0.01	-1.17±0.02	0.716±0.007	0.715±0.007	-0.002±0.006	-0.029±0.004
9.8	1.8±0.3	-0.2±0.5	-0.63±0.01	-1.17±0.02	0.734±0.007	0.734±0.007	-0.002±0.006	-0.023±0.004
10.8	1.3±0.3	-0.1±0.5	-0.60±0.01	-1.16±0.02	0.744±0.007	0.744±0.007	-0.002±0.006	-0.017±0.004
11.8	1.1±0.3	-0.1±0.4	-0.58±0.01	-1.17±0.02	0.767±0.007	0.767±0.007	-0.002±0.006	-0.014±0.004
12.8	0.8±0.3	-0.2±0.4	-0.57±0.01	-1.16±0.02	0.771±0.007	0.771±0.007	-0.002±0.006	-0.011±0.004
13.8	0.6±0.3	-0.2±0.4	-0.55±0.01	-1.17±0.02	0.791±0.007	0.791±0.007	-0.002±0.006	-0.008±0.004
16.4	0.1±0.3	-0.2±0.4	-0.48±0.01	-1.15±0.02	0.819±0.007	0.819±0.007	-0.002±0.005	-0.002±0.005
18.9	-0.1±0.3	-0.2±0.4	-0.46±0.01	-1.17±0.02	0.845±0.007	0.845±0.007	-0.003±0.005	0.002±0.005
21.4	-0.2±0.3	-0.2±0.3	-0.43±0.01	-1.17±0.02	0.861±0.007	0.861±0.007	-0.003±0.005	0.003±0.005
24.0	-0.4±0.3	-0.3±0.3	-0.40±0.01	-1.16±0.02	0.872±0.007	0.872±0.007	-0.004±0.005	0.006±0.005
26.5	-0.6±0.3	-0.3±0.3	-0.38±0.01	-1.16±0.02	0.887±0.007	0.887±0.007	-0.004±0.005	0.009±0.005
29.1	-0.6±0.3	-0.3±0.3	-0.35±0.01	-1.16±0.02	0.899±0.007	0.899±0.007	-0.004±0.005	0.009±0.005
31.6	-0.7±0.3	-0.3±0.3	-0.33±0.01	-1.16±0.02	0.910±0.007	0.910±0.007	-0.004±0.005	0.011±0.005
34.1	-0.8±0.3	-0.3±0.3	-0.32±0.01	-1.17±0.02	0.922±0.007	0.922±0.007	-0.004±0.005	0.013±0.005
36.7	-0.9±0.3	-0.3±0.3	-0.29±0.01	-1.15±0.02	0.929±0.007	0.929±0.007	-0.005±0.005	0.014±0.005
39.2	-0.9±0.3	-0.3±0.3	-0.27±0.01	-1.16±0.02	0.941±0.007	0.940±0.007	-0.005±0.005	0.016±0.005
44.3	-1.0±0.3	-0.3±0.3	-0.22±0.01	-1.14±0.02	0.960±0.007	0.959±0.007	-0.005±0.005	0.017±0.005
49.4	-1.0±0.3	-0.4±0.3	-0.20±0.01	-1.16±0.02	0.982±0.007	0.982±0.007	-0.006±0.005	0.017±0.005
54.5	-1.1±0.3	-0.4±0.3	-0.15±0.01	-1.15±0.02	0.999±0.007	0.998±0.007	-0.007±0.004	0.018±0.006
59.5	-1.1±0.3	-0.4±0.2	-0.12±0.01	-1.15±0.02	1.014±0.007	1.014±0.007	-0.006±0.004	0.019±0.006
64.6	-1.1±0.3	-0.3±0.2	-0.09±0.01	-1.15±0.02	1.031±0.007	1.031±0.007	-0.006±0.004	0.020±0.006
69.7	-1.1±0.3	-0.3±0.2	-0.06±0.01	-1.15±0.02	1.043±0.007	1.042±0.007	-0.006±0.004	0.020±0.006
74.8	-1.1±0.3	-0.3±0.2	-0.03±0.01	-1.15±0.02	1.056±0.007	1.055±0.007	-0.005±0.004	0.019±0.006
79.9	-1.0±0.3	-0.3±0.2	-0.02±0.01	-1.15±0.02	1.064±0.007	1.064±0.007	-0.005±0.004	0.019±0.006
84.9	-0.9±0.3	-0.2±0.2	0.00±0.01	-1.15±0.02	1.070±0.007	1.070±0.007	-0.005±0.004	0.017±0.006
90.0	-0.8±0.3	-0.1±0.2	0.00±0.01	-1.15±0.02	1.073±0.007	1.073±0.007	-0.002±0.004	0.016±0.006
100.2	-0.7±0.3	-0.1±0.2	0.01±0.01	-1.15±0.02	1.076±0.007	1.076±0.007	-0.001±0.004	0.014±0.006
110.3	-0.6±0.3	-0.1±0.2	0.01±0.01	-1.15±0.02	1.076±0.007	1.076±0.007	-0.001±0.004	0.012±0.006
120.5	-0.6±0.3	0.0±0.2	0.01±0.01	-1.15±0.02	1.076±0.007	1.076±0.007	0.001±0.004	0.011±0.006
130.7	-0.5±0.3	0.1±0.2	0.01±0.01	-1.15±0.02	1.076±0.007	1.076±0.007	0.002±0.004	0.010±0.006
140.8	-0.4±0.3	0.1±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	0.003±0.004	0.008±0.006

Table B.330 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-32 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.7±0.3	1.0±0.6	-0.76±0.01	-1.17±0.02	0.644±0.007	0.639±0.007	0.012±0.007	-0.075±0.004
4.7	5.8±0.3	0.3±0.6	-0.74±0.01	-1.17±0.02	0.656±0.007	0.653±0.007	0.004±0.007	-0.067±0.004
5.7	4.6±0.3	0.0±0.6	-0.72±0.01	-1.17±0.02	0.671±0.007	0.669±0.007	0.000±0.007	-0.054±0.004
6.7	3.7±0.3	-0.2±0.5	-0.69±0.01	-1.17±0.02	0.697±0.007	0.696±0.007	-0.003±0.006	-0.045±0.004
7.7	3.0±0.3	-0.5±0.5	-0.66±0.01	-1.18±0.02	0.720±0.007	0.719±0.007	-0.006±0.006	-0.038±0.004
8.7	2.4±0.3	-0.6±0.5	-0.64±0.01	-1.18±0.02	0.735±0.007	0.734±0.007	-0.008±0.006	-0.031±0.004
9.8	1.8±0.3	-0.6±0.5	-0.61±0.01	-1.17±0.02	0.749±0.007	0.748±0.007	-0.008±0.006	-0.024±0.004
10.8	1.4±0.3	-0.7±0.4	-0.58±0.01	-1.16±0.02	0.764±0.007	0.763±0.007	-0.009±0.006	-0.018±0.004
11.8	1.0±0.3	-0.8±0.4	-0.56±0.01	-1.16±0.02	0.776±0.007	0.776±0.007	-0.010±0.006	-0.014±0.004
12.8	0.7±0.3	-0.7±0.4	-0.53±0.01	-1.17±0.02	0.797±0.007	0.797±0.007	-0.010±0.006	-0.010±0.004
13.8	0.5±0.3	-0.7±0.4	-0.51±0.01	-1.18±0.02	0.816±0.007	0.816±0.007	-0.010±0.005	-0.008±0.005
16.4	0.1±0.3	-0.7±0.4	-0.47±0.01	-1.17±0.02	0.838±0.007	0.838±0.007	-0.010±0.005	-0.001±0.005
18.9	0.0±0.3	-0.6±0.3	-0.42±0.01	-1.15±0.02	0.858±0.007	0.858±0.007	-0.009±0.005	0.001±0.005
21.4	-0.2±0.3	-0.6±0.3	-0.40±0.01	-1.16±0.02	0.873±0.006	0.873±0.006	-0.009±0.005	0.003±0.005
24.0	-0.4±0.3	-0.6±0.3	-0.38±0.01	-1.17±0.02	0.890±0.006	0.890±0.006	-0.009±0.005	0.006±0.005
26.5	-0.5±0.3	-0.6±0.3	-0.35±0.01	-1.16±0.02	0.900±0.006	0.900±0.006	-0.009±0.005	0.007±0.005
29.1	-0.6±0.3	-0.6±0.3	-0.34±0.01	-1.16±0.02	0.908±0.006	0.908±0.006	-0.009±0.005	0.009±0.005
31.6	-0.6±0.3	-0.6±0.3	-0.32±0.01	-1.17±0.02	0.921±0.006	0.921±0.006	-0.010±0.005	0.010±0.005
34.1	-0.7±0.3	-0.7±0.3	-0.28±0.01	-1.14±0.02	0.930±0.006	0.929±0.006	-0.011±0.005	0.012±0.005
36.7	-0.8±0.3	-0.7±0.3	-0.27±0.01	-1.15±0.02	0.941±0.006	0.941±0.006	-0.011±0.005	0.013±0.005
39.2	-0.8±0.3	-0.7±0.3	-0.25±0.01	-1.15±0.02	0.949±0.006	0.949±0.006	-0.012±0.005	0.014±0.005
44.3	-0.9±0.3	-0.7±0.3	-0.22±0.01	-1.16±0.02	0.973±0.006	0.973±0.006	-0.011±0.005	0.016±0.005
49.4	-0.9±0.3	-0.6±0.3	-0.18±0.01	-1.17±0.02	0.993±0.006	0.993±0.006	-0.011±0.004	0.016±0.005
54.5	-1.0±0.3	-0.6±0.2	-0.15±0.01	-1.16±0.02	1.005±0.006	1.005±0.006	-0.011±0.004	0.018±0.006
59.5	-1.0±0.3	-0.6±0.2	-0.11±0.01	-1.16±0.02	1.025±0.007	1.025±0.007	-0.010±0.004	0.018±0.006
64.6	-1.0±0.3	-0.6±0.2	-0.09±0.01	-1.15±0.02	1.034±0.007	1.034±0.007	-0.010±0.004	0.018±0.006
69.7	-1.0±0.3	-0.5±0.2	-0.06±0.01	-1.16±0.02	1.050±0.007	1.050±0.007	-0.009±0.004	0.018±0.006
74.8	-0.9±0.3	-0.5±0.2	-0.03±0.01	-1.16±0.02	1.064±0.007	1.064±0.007	-0.009±0.004	0.017±0.006
79.9	-0.9±0.3	-0.5±0.2	-0.02±0.01	-1.15±0.02	1.066±0.007	1.066±0.007	-0.009±0.004	0.017±0.006
84.9	-0.8±0.3	-0.4±0.2	0.00±0.01	-1.16±0.02	1.074±0.007	1.074±0.007	-0.007±0.004	0.016±0.006
90.0	-0.7±0.3	-0.3±0.2	0.00±0.01	-1.16±0.02	1.078±0.007	1.078±0.007	-0.005±0.004	0.014±0.006
100.2	-0.6±0.3	-0.2±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.079±0.007	-0.004±0.004	0.012±0.006
110.3	-0.6±0.3	-0.1±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	-0.002±0.004	0.011±0.006
120.5	-0.5±0.3	-0.1±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	-0.001±0.004	0.010±0.006
130.7	-0.4±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.000±0.004	0.008±0.006
140.8	-0.4±0.3	0.1±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.002±0.004	0.007±0.006

Table B.331 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-25 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	6.5±0.3	0.5±0.6	-0.74±0.01	-1.18±0.02	0.659±0.007	0.655±0.007	0.005±0.007	-0.074±0.004
4.7	5.4±0.3	-0.1±0.6	-0.72±0.01	-1.17±0.02	0.674±0.007	0.671±0.007	-0.001±0.007	-0.064±0.004
5.7	4.5±0.3	-0.7±0.5	-0.70±0.01	-1.18±0.02	0.699±0.007	0.696±0.007	-0.008±0.006	-0.055±0.004
6.7	3.7±0.3	-0.8±0.5	-0.66±0.01	-1.17±0.02	0.714±0.007	0.713±0.007	-0.010±0.006	-0.046±0.004
7.7	3.1±0.3	-1.1±0.5	-0.64±0.01	-1.18±0.02	0.735±0.007	0.733±0.007	-0.014±0.006	-0.039±0.004
8.7	2.3±0.3	-1.1±0.5	-0.64±0.01	-1.20±0.02	0.748±0.007	0.747±0.007	-0.014±0.006	-0.030±0.004
9.8	1.8±0.3	-1.3±0.4	-0.59±0.01	-1.19±0.02	0.776±0.007	0.775±0.007	-0.017±0.006	-0.024±0.004
10.8	1.3±0.3	-1.3±0.4	-0.56±0.01	-1.18±0.02	0.782±0.007	0.782±0.007	-0.018±0.006	-0.018±0.004
11.8	0.9±0.3	-1.3±0.4	-0.54±0.01	-1.16±0.02	0.784±0.007	0.784±0.007	-0.018±0.006	-0.013±0.004
12.8	0.7±0.3	-1.2±0.4	-0.50±0.01	-1.18±0.02	0.821±0.007	0.821±0.007	-0.017±0.005	-0.010±0.005
13.8	0.5±0.3	-1.2±0.4	-0.49±0.01	-1.17±0.02	0.824±0.007	0.824±0.007	-0.017±0.005	-0.008±0.005
16.4	0.1±0.3	-1.1±0.4	-0.45±0.01	-1.16±0.02	0.843±0.007	0.843±0.007	-0.016±0.005	-0.001±0.005
18.9	-0.2±0.3	-1.0±0.3	-0.41±0.01	-1.16±0.02	0.870±0.007	0.870±0.007	-0.015±0.005	0.002±0.005
21.4	-0.3±0.3	-1.0±0.3	-0.39±0.01	-1.17±0.02	0.882±0.007	0.882±0.007	-0.015±0.005	0.005±0.005
24.0	-0.4±0.3	-0.9±0.3	-0.37±0.01	-1.16±0.02	0.892±0.007	0.892±0.007	-0.015±0.005	0.007±0.005
26.5	-0.6±0.3	-1.0±0.3	-0.34±0.01	-1.14±0.02	0.899±0.007	0.899±0.007	-0.016±0.005	0.009±0.005
29.1	-0.6±0.3	-1.0±0.3	-0.33±0.01	-1.17±0.02	0.917±0.007	0.916±0.007	-0.016±0.005	0.010±0.005
31.6	-0.7±0.3	-1.1±0.3	-0.30±0.01	-1.17±0.02	0.931±0.007	0.930±0.007	-0.017±0.005	0.011±0.005
34.1	-0.7±0.3	-1.0±0.3	-0.28±0.01	-1.15±0.02	0.930±0.007	0.930±0.007	-0.017±0.005	0.012±0.005
36.7	-0.9±0.3	-1.0±0.3	-0.25±0.01	-1.15±0.02	0.945±0.007	0.944±0.007	-0.016±0.005	0.014±0.005
39.2	-0.8±0.3	-1.0±0.3	-0.24±0.01	-1.16±0.02	0.960±0.007	0.960±0.007	-0.016±0.005	0.014±0.005
44.3	-1.0±0.3	-0.9±0.3	-0.20±0.01	-1.16±0.02	0.979±0.007	0.978±0.007	-0.016±0.005	0.016±0.005
49.4	-1.1±0.3	-0.9±0.3	-0.18±0.01	-1.18±0.02	0.998±0.007	0.997±0.007	-0.016±0.005	0.018±0.006
54.5	-1.0±0.3	-0.8±0.3	-0.15±0.01	-1.18±0.02	1.014±0.007	1.013±0.007	-0.015±0.004	0.018±0.006
59.5	-1.1±0.3	-0.8±0.2	-0.11±0.01	-1.17±0.02	1.025±0.007	1.024±0.007	-0.015±0.004	0.020±0.006
64.6	-1.1±0.3	-0.8±0.2	-0.09±0.01	-1.16±0.02	1.037±0.007	1.036±0.007	-0.014±0.004	0.019±0.006
69.7	-1.0±0.3	-0.8±0.2	-0.07±0.01	-1.17±0.02	1.048±0.007	1.048±0.007	-0.014±0.004	0.019±0.006
74.8	-1.0±0.3	-0.7±0.2	-0.04±0.01	-1.16±0.02	1.058±0.007	1.058±0.007	-0.013±0.004	0.018±0.006
79.9	-1.0±0.3	-0.5±0.2	-0.03±0.01	-1.17±0.02	1.067±0.007	1.067±0.007	-0.010±0.004	0.018±0.006
84.9	-0.9±0.3	-0.5±0.2	-0.01±0.01	-1.17±0.02	1.074±0.007	1.074±0.007	-0.009±0.004	0.016±0.006
90.0	-0.8±0.3	-0.4±0.2	0.00±0.01	-1.16±0.02	1.078±0.007	1.078±0.007	-0.008±0.004	0.015±0.006
100.2	-0.7±0.3	-0.2±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.080±0.007	-0.004±0.004	0.014±0.006
110.3	-0.6±0.3	-0.1±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	-0.001±0.004	0.012±0.006
120.5	-0.6±0.3	-0.1±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.082±0.007	-0.001±0.004	0.012±0.006
130.7	-0.5±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	0.000±0.004	0.010±0.006
140.8	-0.5±0.3	0.1±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	0.003±0.004	0.009±0.006

Table B.332 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-19 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.2±0.3	0.3±0.6	-0.74±0.01	-1.17±0.02	0.656±0.007	0.653±0.007	0.003±0.007	-0.060±0.004
4.7	4.5±0.3	-0.5±0.5	-0.70±0.01	-1.17±0.02	0.682±0.007	0.679±0.007	-0.006±0.006	-0.054±0.004
5.7	3.8±0.3	-1.0±0.5	-0.68±0.01	-1.17±0.02	0.698±0.007	0.697±0.007	-0.012±0.006	-0.046±0.004
6.7	3.0±0.3	-1.3±0.5	-0.65±0.01	-1.18±0.02	0.729±0.007	0.727±0.007	-0.016±0.006	-0.038±0.004
7.7	2.5±0.3	-1.5±0.5	-0.63±0.01	-1.18±0.02	0.744±0.007	0.743±0.007	-0.019±0.006	-0.033±0.004
8.7	1.9±0.3	-1.7±0.4	-0.59±0.01	-1.17±0.02	0.756±0.007	0.755±0.007	-0.023±0.006	-0.025±0.004
9.8	1.5±0.3	-1.8±0.4	-0.57±0.01	-1.17±0.02	0.772±0.007	0.771±0.007	-0.024±0.006	-0.020±0.004
10.8	1.2±0.3	-1.7±0.4	-0.56±0.01	-1.17±0.02	0.781±0.007	0.781±0.007	-0.024±0.006	-0.016±0.004
11.8	0.8±0.3	-1.8±0.4	-0.52±0.01	-1.17±0.02	0.807±0.007	0.807±0.007	-0.026±0.005	-0.012±0.004
12.8	0.6±0.3	-1.9±0.4	-0.51±0.01	-1.18±0.02	0.821±0.007	0.820±0.007	-0.027±0.005	-0.009±0.005
13.8	0.3±0.3	-1.8±0.4	-0.47±0.01	-1.17±0.02	0.833±0.007	0.833±0.007	-0.026±0.005	-0.005±0.005
16.4	0.0±0.3	-1.6±0.3	-0.44±0.01	-1.18±0.02	0.862±0.007	0.862±0.007	-0.025±0.005	0.000±0.005
18.9	-0.3±0.3	-1.6±0.3	-0.40±0.01	-1.18±0.02	0.882±0.007	0.882±0.007	-0.025±0.005	0.004±0.005
21.4	-0.4±0.3	-1.6±0.3	-0.37±0.01	-1.16±0.02	0.891±0.007	0.890±0.007	-0.025±0.005	0.007±0.005
24.0	-0.5±0.3	-1.6±0.3	-0.34±0.01	-1.17±0.02	0.911±0.006	0.910±0.007	-0.026±0.005	0.008±0.005
26.5	-0.5±0.3	-1.6±0.3	-0.32±0.01	-1.18±0.02	0.925±0.006	0.925±0.006	-0.026±0.005	0.009±0.005
29.1	-0.7±0.3	-1.6±0.3	-0.30±0.01	-1.18±0.02	0.935±0.006	0.935±0.006	-0.026±0.005	0.011±0.005
31.6	-0.8±0.3	-1.6±0.3	-0.29±0.01	-1.18±0.02	0.942±0.006	0.942±0.006	-0.026±0.005	0.012±0.005
34.1	-0.8±0.3	-1.5±0.3	-0.27±0.01	-1.17±0.02	0.949±0.006	0.949±0.006	-0.026±0.005	0.013±0.005
36.7	-0.9±0.3	-1.5±0.3	-0.24±0.01	-1.16±0.02	0.957±0.006	0.957±0.006	-0.026±0.005	0.014±0.005
39.2	-0.9±0.3	-1.5±0.3	-0.23±0.01	-1.18±0.02	0.973±0.006	0.973±0.007	-0.025±0.005	0.015±0.005
44.3	-1.0±0.3	-1.4±0.3	-0.19±0.01	-1.16±0.02	0.983±0.007	0.983±0.007	-0.025±0.004	0.017±0.005
49.4	-1.0±0.3	-1.4±0.3	-0.16±0.01	-1.17±0.02	1.001±0.007	1.000±0.007	-0.024±0.004	0.018±0.006
54.5	-1.1±0.3	-1.3±0.2	-0.13±0.01	-1.17±0.02	1.019±0.007	1.018±0.007	-0.023±0.004	0.019±0.006
59.5	-1.0±0.3	-1.3±0.2	-0.10±0.01	-1.17±0.02	1.031±0.007	1.031±0.007	-0.023±0.004	0.019±0.006
64.6	-1.1±0.3	-1.2±0.2	-0.08±0.01	-1.17±0.02	1.046±0.007	1.046±0.007	-0.022±0.004	0.020±0.006
69.7	-1.0±0.3	-1.0±0.2	-0.05±0.01	-1.17±0.02	1.058±0.007	1.057±0.007	-0.019±0.004	0.019±0.006
74.8	-1.0±0.3	-0.9±0.2	-0.03±0.01	-1.17±0.02	1.066±0.007	1.066±0.007	-0.017±0.004	0.018±0.006
79.9	-0.9±0.3	-0.7±0.2	-0.02±0.01	-1.17±0.02	1.073±0.007	1.073±0.007	-0.013±0.004	0.016±0.006
84.9	-0.9±0.3	-0.6±0.2	-0.01±0.01	-1.17±0.02	1.077±0.007	1.077±0.007	-0.011±0.004	0.016±0.006
90.0	-0.8±0.3	-0.5±0.2	0.00±0.01	-1.17±0.02	1.079±0.007	1.079±0.007	-0.009±0.004	0.016±0.006
100.2	-0.7±0.3	-0.3±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	-0.005±0.004	0.014±0.006
110.3	-0.7±0.3	-0.1±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	-0.001±0.004	0.014±0.006
120.5	-0.7±0.3	-0.1±0.2	0.01±0.01	-1.17±0.02	1.084±0.007	1.084±0.007	-0.001±0.004	0.013±0.006
130.7	-0.6±0.3	0.0±0.2	0.01±0.01	-1.17±0.02	1.083±0.007	1.083±0.007	0.000±0.004	0.012±0.006
140.8	-0.6±0.3	0.1±0.2	0.00±0.01	-1.17±0.02	1.083±0.007	1.083±0.007	0.002±0.004	0.011±0.006

Table B.333 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-13 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.1±0.3	0.2±0.6	-0.74±0.01	-1.16±0.02	0.645±0.007	0.643±0.007	0.002±0.007	-0.046±0.004
4.7	3.7±0.3	-0.9±0.6	-0.72±0.01	-1.15±0.02	0.656±0.007	0.655±0.007	-0.010±0.007	-0.042±0.004
5.7	3.1±0.3	-1.4±0.6	-0.70±0.01	-1.16±0.02	0.679±0.007	0.678±0.007	-0.016±0.007	-0.037±0.004
6.7	2.5±0.3	-1.7±0.5	-0.67±0.01	-1.16±0.02	0.699±0.007	0.698±0.007	-0.021±0.006	-0.030±0.004
7.7	2.0±0.3	-2.1±0.5	-0.65±0.01	-1.17±0.02	0.720±0.007	0.719±0.007	-0.027±0.006	-0.025±0.004
8.7	1.6±0.3	-2.3±0.5	-0.61±0.01	-1.17±0.02	0.744±0.007	0.743±0.007	-0.030±0.006	-0.021±0.004
9.8	1.1±0.3	-2.4±0.5	-0.60±0.01	-1.17±0.02	0.751±0.007	0.750±0.007	-0.031±0.006	-0.014±0.004
10.8	0.8±0.3	-2.6±0.4	-0.57±0.01	-1.15±0.02	0.763±0.007	0.762±0.007	-0.035±0.006	-0.010±0.004
11.8	0.5±0.3	-2.6±0.4	-0.55±0.01	-1.15±0.02	0.777±0.007	0.776±0.007	-0.035±0.006	-0.007±0.004
12.8	0.2±0.3	-2.5±0.4	-0.52±0.01	-1.16±0.02	0.802±0.007	0.801±0.007	-0.036±0.006	-0.003±0.004
13.8	0.1±0.3	-2.7±0.4	-0.51±0.01	-1.17±0.02	0.812±0.007	0.811±0.007	-0.038±0.006	-0.001±0.004
16.4	-0.3±0.3	-2.6±0.4	-0.46±0.01	-1.17±0.02	0.841±0.007	0.840±0.007	-0.038±0.005	0.004±0.005
18.9	-0.5±0.3	-2.7±0.4	-0.42±0.01	-1.15±0.02	0.855±0.007	0.854±0.007	-0.040±0.005	0.008±0.005
21.4	-0.6±0.3	-2.6±0.3	-0.41±0.01	-1.18±0.02	0.874±0.007	0.873±0.007	-0.040±0.005	0.009±0.005
24.0	-0.7±0.3	-2.5±0.3	-0.38±0.01	-1.17±0.02	0.888±0.007	0.887±0.007	-0.039±0.005	0.010±0.005
26.5	-0.7±0.3	-2.5±0.3	-0.36±0.01	-1.16±0.02	0.897±0.007	0.896±0.007	-0.039±0.005	0.011±0.005
29.1	-0.8±0.3	-2.4±0.3	-0.32±0.01	-1.15±0.02	0.910±0.007	0.909±0.007	-0.039±0.005	0.013±0.005
31.6	-0.8±0.3	-2.4±0.3	-0.32±0.01	-1.17±0.02	0.922±0.007	0.921±0.007	-0.039±0.005	0.013±0.005
34.1	-0.9±0.3	-2.4±0.3	-0.29±0.01	-1.16±0.02	0.931±0.007	0.930±0.007	-0.038±0.005	0.014±0.005
36.7	-1.0±0.3	-2.3±0.3	-0.26±0.01	-1.16±0.02	0.948±0.007	0.947±0.007	-0.038±0.005	0.016±0.005
39.2	-1.0±0.3	-2.3±0.3	-0.27±0.01	-1.17±0.02	0.950±0.007	0.950±0.007	-0.038±0.005	0.016±0.005
44.3	-1.1±0.3	-2.2±0.3	-0.24±0.01	-1.18±0.02	0.969±0.007	0.968±0.007	-0.037±0.005	0.018±0.005
49.4	-1.1±0.3	-2.0±0.3	-0.21±0.01	-1.18±0.02	0.986±0.007	0.985±0.007	-0.035±0.005	0.019±0.005
54.5	-1.1±0.3	-1.9±0.3	-0.16±0.01	-1.16±0.02	1.001±0.007	1.000±0.007	-0.033±0.004	0.020±0.006
59.5	-1.1±0.3	-1.8±0.3	-0.15±0.01	-1.17±0.02	1.008±0.007	1.008±0.007	-0.033±0.004	0.019±0.006
64.6	-1.2±0.3	-1.6±0.2	-0.14±0.01	-1.18±0.02	1.023±0.007	1.022±0.007	-0.029±0.004	0.021±0.006
69.7	-1.2±0.3	-1.5±0.2	-0.11±0.01	-1.17±0.02	1.029±0.007	1.028±0.007	-0.027±0.004	0.021±0.006
74.8	-1.1±0.3	-1.3±0.2	-0.10±0.01	-1.16±0.02	1.029±0.007	1.029±0.007	-0.023±0.004	0.020±0.006
79.9	-1.0±0.3	-1.1±0.2	-0.11±0.01	-1.17±0.02	1.032±0.007	1.032±0.007	-0.019±0.004	0.018±0.006
84.9	-0.9±0.3	-0.8±0.2	-0.11±0.01	-1.16±0.02	1.026±0.007	1.026±0.007	-0.015±0.004	0.016±0.006
90.0	-1.0±0.3	-0.6±0.2	-0.10±0.01	-1.16±0.02	1.029±0.007	1.029±0.007	-0.010±0.004	0.017±0.006
100.2	-1.0±0.3	-0.3±0.2	-0.09±0.01	-1.17±0.02	1.041±0.007	1.040±0.007	-0.005±0.004	0.018±0.006
110.3	-1.0±0.3	-0.2±0.2	-0.09±0.01	-1.16±0.02	1.037±0.007	1.037±0.007	-0.003±0.004	0.018±0.006
120.5	-1.0±0.3	-0.1±0.2	-0.09±0.01	-1.17±0.02	1.041±0.007	1.040±0.007	-0.002±0.004	0.019±0.006
130.7	-1.0±0.3	-0.1±0.2	-0.12±0.01	-1.17±0.02	1.022±0.007	1.022±0.007	-0.002±0.004	0.017±0.006
140.8	-0.9±0.3	-0.1±0.3	-0.14±0.01	-1.17±0.02	1.012±0.007	1.012±0.007	-0.002±0.004	0.016±0.006

Table B.334 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm,-6 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.0±0.3	-0.3±0.6	-0.76±0.01	-1.15±0.02	0.628±0.007	0.627±0.007	-0.003±0.007	-0.022±0.003
4.7	1.8±0.3	-1.3±0.6	-0.73±0.01	-1.15±0.02	0.645±0.007	0.644±0.007	-0.014±0.007	-0.021±0.004
5.7	1.5±0.3	-2.0±0.6	-0.71±0.01	-1.15±0.02	0.662±0.007	0.661±0.007	-0.023±0.007	-0.017±0.004
6.7	1.3±0.3	-2.4±0.6	-0.70±0.01	-1.16±0.02	0.680±0.007	0.680±0.007	-0.028±0.007	-0.015±0.004
7.7	0.9±0.3	-2.8±0.5	-0.67±0.01	-1.16±0.02	0.699±0.007	0.698±0.007	-0.034±0.006	-0.011±0.004
8.7	0.7±0.3	-3.1±0.5	-0.66±0.01	-1.16±0.02	0.711±0.007	0.710±0.007	-0.039±0.006	-0.009±0.004
9.8	0.4±0.3	-3.4±0.5	-0.64±0.01	-1.16±0.02	0.723±0.007	0.722±0.007	-0.043±0.006	-0.005±0.004
10.8	0.2±0.3	-3.5±0.5	-0.62±0.01	-1.16±0.02	0.733±0.007	0.732±0.007	-0.045±0.006	-0.003±0.004
11.8	0.1±0.3	-3.7±0.5	-0.60±0.01	-1.15±0.02	0.742±0.007	0.741±0.007	-0.048±0.006	-0.001±0.004
12.8	-0.2±0.3	-3.7±0.4	-0.59±0.01	-1.16±0.02	0.756±0.007	0.754±0.007	-0.048±0.006	0.002±0.004
13.8	-0.3±0.3	-3.8±0.4	-0.58±0.01	-1.17±0.02	0.771±0.007	0.769±0.007	-0.051±0.006	0.004±0.004
16.4	-0.5±0.3	-3.9±0.4	-0.53±0.01	-1.15±0.02	0.787±0.007	0.785±0.007	-0.053±0.006	0.007±0.004
18.9	-0.7±0.3	-3.9±0.4	-0.52±0.01	-1.16±0.02	0.804±0.007	0.802±0.007	-0.054±0.006	0.010±0.004
21.4	-0.9±0.3	-3.8±0.4	-0.49±0.01	-1.16±0.02	0.817±0.007	0.815±0.007	-0.054±0.005	0.012±0.005
24.0	-0.9±0.3	-3.8±0.4	-0.47±0.01	-1.16±0.02	0.830±0.007	0.829±0.007	-0.055±0.005	0.013±0.005
26.5	-1.1±0.3	-3.8±0.4	-0.46±0.01	-1.16±0.02	0.835±0.007	0.833±0.007	-0.055±0.005	0.015±0.005
29.1	-1.1±0.3	-3.7±0.4	-0.46±0.01	-1.18±0.02	0.846±0.007	0.844±0.007	-0.055±0.005	0.016±0.005
31.6	-1.1±0.3	-3.7±0.4	-0.43±0.01	-1.16±0.02	0.853±0.007	0.851±0.007	-0.055±0.005	0.016±0.005
34.1	-1.2±0.3	-3.6±0.3	-0.42±0.01	-1.16±0.02	0.860±0.007	0.859±0.007	-0.054±0.005	0.018±0.005
36.7	-1.2±0.3	-3.6±0.3	-0.40±0.01	-1.15±0.02	0.865±0.007	0.863±0.007	-0.055±0.005	0.018±0.005
39.2	-1.3±0.3	-3.5±0.3	-0.39±0.01	-1.16±0.02	0.875±0.007	0.873±0.007	-0.054±0.005	0.019±0.005
44.3	-1.3±0.3	-3.5±0.3	-0.38±0.01	-1.16±0.02	0.881±0.007	0.879±0.007	-0.054±0.005	0.021±0.005
49.4	-1.4±0.3	-3.3±0.3	-0.34±0.01	-1.16±0.02	0.903±0.007	0.901±0.007	-0.052±0.005	0.022±0.005
54.5	-1.3±0.3	-3.1±0.3	-0.34±0.01	-1.15±0.02	0.902±0.007	0.901±0.007	-0.049±0.005	0.021±0.005
59.5	-1.3±0.3	-2.9±0.3	-0.34±0.01	-1.16±0.02	0.910±0.007	0.908±0.007	-0.046±0.005	0.021±0.005
64.6	-1.3±0.3	-2.7±0.3	-0.31±0.01	-1.15±0.02	0.916±0.007	0.915±0.007	-0.043±0.005	0.022±0.005
69.7	-1.4±0.3	-2.3±0.3	-0.31±0.01	-1.15±0.02	0.918±0.007	0.917±0.007	-0.038±0.005	0.022±0.005
74.8	-1.3±0.3	-2.1±0.3	-0.33±0.01	-1.15±0.02	0.907±0.007	0.907±0.007	-0.033±0.005	0.020±0.005
79.9	-1.1±0.3	-1.9±0.3	-0.37±0.01	-1.15±0.02	0.888±0.007	0.887±0.007	-0.029±0.005	0.016±0.005
84.9	-0.9±0.3	-1.7±0.3	-0.39±0.01	-1.15±0.02	0.875±0.007	0.874±0.007	-0.025±0.005	0.014±0.005
90.0	-1.0±0.3	-1.3±0.3	-0.38±0.01	-1.16±0.02	0.884±0.007	0.883±0.007	-0.021±0.005	0.016±0.005
100.2	-1.3±0.3	-0.9±0.3	-0.37±0.01	-1.16±0.02	0.886±0.007	0.885±0.007	-0.014±0.005	0.020±0.005
110.3	-1.3±0.3	-0.6±0.3	-0.37±0.01	-1.16±0.02	0.885±0.007	0.885±0.007	-0.009±0.005	0.021±0.005
120.5	-1.6±0.3	-0.6±0.3	-0.37±0.01	-1.16±0.02	0.892±0.007	0.891±0.007	-0.009±0.005	0.025±0.005
130.7	-1.3±0.3	-0.6±0.3	-0.42±0.01	-1.16±0.02	0.860±0.007	0.859±0.007	-0.009±0.005	0.020±0.005
140.8	-1.2±0.3	-0.7±0.4	-0.44±0.01	-1.16±0.02	0.850±0.007	0.849±0.007	-0.010±0.005	0.018±0.005

Table B.335 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 at (x,z)=(453 mm, 0 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.4±0.3	-0.4±0.7	-0.77±0.01	-1.16±0.02	0.625±0.008	0.625±0.008	-0.004±0.007	-0.005±0.003
4.7	0.4±0.3	-1.5±0.6	-0.75±0.01	-1.16±0.02	0.641±0.007	0.640±0.007	-0.017±0.007	-0.004±0.004
5.7	0.4±0.3	-2.1±0.6	-0.72±0.01	-1.16±0.02	0.658±0.007	0.658±0.007	-0.024±0.007	-0.005±0.004
6.7	0.5±0.3	-2.8±0.6	-0.71±0.01	-1.16±0.02	0.673±0.007	0.672±0.007	-0.033±0.007	-0.006±0.004
7.7	0.5±0.3	-3.2±0.5	-0.69±0.01	-1.16±0.02	0.689±0.007	0.688±0.007	-0.038±0.006	-0.007±0.004
8.7	0.6±0.3	-3.5±0.5	-0.67±0.01	-1.16±0.02	0.700±0.007	0.698±0.007	-0.043±0.006	-0.007±0.004
9.8	0.5±0.3	-3.7±0.5	-0.66±0.01	-1.16±0.02	0.706±0.007	0.704±0.007	-0.046±0.006	-0.007±0.004
10.8	0.6±0.3	-4.1±0.5	-0.65±0.01	-1.16±0.02	0.716±0.007	0.715±0.007	-0.051±0.006	-0.007±0.004
11.8	0.7±0.3	-4.1±0.5	-0.64±0.01	-1.17±0.02	0.728±0.007	0.726±0.007	-0.052±0.006	-0.008±0.004
12.8	0.5±0.3	-4.2±0.5	-0.62±0.01	-1.17±0.02	0.737±0.007	0.735±0.007	-0.055±0.006	-0.007±0.004
13.8	0.5±0.3	-4.3±0.5	-0.61±0.01	-1.17±0.02	0.744±0.007	0.742±0.007	-0.055±0.006	-0.007±0.004
16.4	0.7±0.3	-4.5±0.5	-0.60±0.01	-1.17±0.02	0.757±0.007	0.755±0.007	-0.059±0.006	-0.009±0.004
18.9	0.7±0.3	-4.6±0.4	-0.57±0.01	-1.16±0.02	0.765±0.007	0.763±0.007	-0.061±0.006	-0.009±0.004
21.4	0.7±0.3	-4.6±0.4	-0.57±0.01	-1.17±0.02	0.778±0.007	0.776±0.007	-0.063±0.006	-0.009±0.004
24.0	0.6±0.3	-4.5±0.4	-0.55±0.01	-1.17±0.02	0.785±0.007	0.783±0.007	-0.062±0.006	-0.008±0.004
26.5	0.6±0.3	-4.6±0.4	-0.54±0.01	-1.16±0.02	0.789±0.007	0.786±0.007	-0.063±0.006	-0.008±0.004
29.1	0.5±0.3	-4.6±0.4	-0.53±0.01	-1.16±0.02	0.792±0.007	0.789±0.007	-0.063±0.006	-0.007±0.004
31.6	0.5±0.3	-4.6±0.4	-0.53±0.01	-1.16±0.02	0.795±0.007	0.792±0.007	-0.064±0.006	-0.006±0.004
34.1	0.4±0.3	-4.7±0.4	-0.51±0.01	-1.15±0.02	0.797±0.007	0.794±0.007	-0.065±0.006	-0.005±0.004
36.7	0.5±0.3	-4.6±0.4	-0.51±0.01	-1.16±0.02	0.807±0.007	0.804±0.007	-0.064±0.006	-0.006±0.004
39.2	0.4±0.3	-4.6±0.4	-0.50±0.01	-1.15±0.02	0.810±0.007	0.807±0.007	-0.065±0.006	-0.006±0.004
44.3	0.4±0.3	-4.4±0.4	-0.49±0.01	-1.16±0.02	0.816±0.007	0.814±0.007	-0.063±0.005	-0.006±0.004
49.4	0.3±0.3	-4.1±0.4	-0.48±0.01	-1.16±0.02	0.827±0.007	0.825±0.007	-0.059±0.005	-0.004±0.005
54.5	0.4±0.3	-4.0±0.4	-0.46±0.01	-1.16±0.02	0.833±0.007	0.831±0.007	-0.058±0.005	-0.006±0.005
59.5	0.5±0.3	-3.7±0.4	-0.46±0.01	-1.16±0.02	0.839±0.007	0.837±0.007	-0.054±0.005	-0.008±0.005
64.6	0.7±0.3	-3.4±0.4	-0.45±0.01	-1.16±0.02	0.840±0.007	0.839±0.007	-0.049±0.005	-0.010±0.005
69.7	0.8±0.3	-2.9±0.4	-0.45±0.01	-1.16±0.02	0.841±0.007	0.840±0.007	-0.043±0.005	-0.012±0.005
74.8	1.0±0.3	-2.5±0.4	-0.45±0.01	-1.15±0.02	0.837±0.007	0.836±0.007	-0.037±0.005	-0.014±0.005
79.9	1.2±0.3	-2.4±0.4	-0.47±0.01	-1.16±0.02	0.834±0.007	0.833±0.007	-0.034±0.005	-0.018±0.005
84.9	1.3±0.3	-2.0±0.4	-0.47±0.01	-1.16±0.02	0.827±0.007	0.826±0.007	-0.029±0.005	-0.019±0.005
90.0	1.3±0.3	-1.9±0.4	-0.50±0.01	-1.16±0.02	0.816±0.007	0.815±0.007	-0.027±0.005	-0.018±0.005
100.2	0.9±0.3	-1.4±0.4	-0.52±0.01	-1.15±0.02	0.796±0.007	0.796±0.007	-0.020±0.006	-0.012±0.004
110.3	0.5±0.3	-1.2±0.4	-0.55±0.01	-1.16±0.02	0.784±0.007	0.784±0.007	-0.017±0.006	-0.007±0.004
120.5	0.1±0.3	-0.9±0.4	-0.57±0.01	-1.16±0.02	0.772±0.007	0.772±0.007	-0.012±0.006	-0.001±0.004
130.7	0.5±0.3	-1.0±0.5	-0.59±0.01	-1.16±0.02	0.753±0.007	0.753±0.007	-0.013±0.006	-0.006±0.004
140.8	0.8±0.3	-1.0±0.5	-0.59±0.01	-1.16±0.02	0.756±0.007	0.756±0.007	-0.014±0.006	-0.010±0.004

Table B.336 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-203 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-1.2±0.3	1.6±0.6	-0.74±0.01	-1.18±0.02	0.666±0.007	0.666±0.007	0.019±0.007	0.014±0.004
4.7	-1.1±0.3	0.6±0.5	-0.71±0.01	-1.19±0.02	0.694±0.007	0.694±0.007	0.007±0.006	0.013±0.004
5.7	-1.2±0.3	0.3±0.5	-0.68±0.01	-1.19±0.02	0.717±0.007	0.717±0.007	0.004±0.006	0.015±0.004
6.7	-1.1±0.3	0.3±0.5	-0.65±0.01	-1.20±0.02	0.738±0.007	0.738±0.007	0.004±0.006	0.015±0.004
7.7	-1.2±0.3	0.1±0.4	-0.63±0.01	-1.19±0.02	0.751±0.007	0.751±0.007	0.001±0.006	0.015±0.004
8.7	-1.1±0.3	0.0±0.4	-0.61±0.01	-1.19±0.02	0.761±0.007	0.761±0.007	0.000±0.006	0.015±0.004
9.8	-1.1±0.3	-0.1±0.4	-0.59±0.01	-1.19±0.02	0.775±0.007	0.775±0.007	-0.001±0.006	0.014±0.004
10.8	-1.1±0.3	-0.1±0.4	-0.57±0.01	-1.19±0.02	0.787±0.007	0.787±0.007	-0.001±0.006	0.015±0.004
11.8	-1.0±0.3	-0.1±0.4	-0.57±0.01	-1.19±0.02	0.792±0.007	0.792±0.007	-0.001±0.006	0.014±0.004
12.8	-1.0±0.3	-0.1±0.4	-0.54±0.01	-1.19±0.02	0.806±0.007	0.806±0.007	-0.001±0.005	0.014±0.004
13.8	-0.9±0.3	0.0±0.4	-0.52±0.01	-1.18±0.02	0.812±0.007	0.812±0.007	-0.001±0.005	0.013±0.004
16.4	-0.9±0.3	0.0±0.4	-0.49±0.01	-1.17±0.02	0.827±0.007	0.826±0.007	-0.001±0.005	0.013±0.005
18.9	-0.9±0.3	0.0±0.3	-0.46±0.01	-1.19±0.02	0.850±0.007	0.850±0.007	0.000±0.005	0.013±0.005
21.4	-0.8±0.3	0.0±0.3	-0.44±0.01	-1.19±0.02	0.869±0.006	0.869±0.006	0.001±0.005	0.012±0.005
24.0	-0.7±0.3	0.0±0.3	-0.41±0.01	-1.18±0.02	0.880±0.006	0.880±0.006	0.000±0.005	0.011±0.005
26.5	-0.8±0.3	0.0±0.3	-0.38±0.01	-1.18±0.02	0.894±0.006	0.893±0.006	0.001±0.005	0.012±0.005
29.1	-0.7±0.3	0.0±0.3	-0.36±0.01	-1.18±0.02	0.905±0.006	0.905±0.006	0.001±0.005	0.011±0.005
31.6	-0.8±0.3	0.1±0.3	-0.34±0.01	-1.18±0.02	0.919±0.006	0.919±0.006	0.001±0.005	0.012±0.005
34.1	-0.8±0.3	0.1±0.3	-0.31±0.01	-1.18±0.02	0.932±0.006	0.932±0.006	0.002±0.005	0.012±0.005
36.7	-0.8±0.3	0.2±0.3	-0.29±0.01	-1.19±0.02	0.943±0.006	0.943±0.006	0.003±0.005	0.012±0.005
39.2	-0.7±0.3	0.2±0.3	-0.27±0.01	-1.18±0.02	0.953±0.006	0.953±0.006	0.003±0.005	0.012±0.005
44.3	-0.8±0.3	0.2±0.3	-0.23±0.01	-1.19±0.02	0.978±0.006	0.977±0.006	0.003±0.005	0.013±0.005
49.4	-0.8±0.3	0.3±0.3	-0.19±0.01	-1.18±0.02	0.996±0.006	0.996±0.006	0.005±0.004	0.013±0.005
54.5	-0.8±0.3	0.4±0.2	-0.15±0.01	-1.19±0.02	1.015±0.006	1.015±0.006	0.006±0.004	0.013±0.006
59.5	-0.8±0.3	0.4±0.2	-0.12±0.01	-1.19±0.02	1.032±0.007	1.032±0.007	0.007±0.004	0.014±0.006
64.6	-0.7±0.3	0.4±0.2	-0.09±0.01	-1.18±0.02	1.047±0.007	1.047±0.007	0.007±0.004	0.013±0.006
69.7	-0.7±0.3	0.4±0.2	-0.06±0.01	-1.18±0.02	1.060±0.007	1.060±0.007	0.007±0.004	0.013±0.006
74.8	-0.6±0.3	0.4±0.2	-0.03±0.01	-1.18±0.02	1.071±0.007	1.071±0.007	0.007±0.004	0.012±0.006
79.9	-0.6±0.3	0.4±0.2	-0.02±0.01	-1.18±0.02	1.079±0.007	1.079±0.007	0.008±0.004	0.012±0.006
84.9	-0.6±0.3	0.4±0.2	0.00±0.01	-1.18±0.02	1.084±0.007	1.084±0.007	0.008±0.004	0.012±0.006
90.0	-0.6±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.088±0.007	1.088±0.007	0.008±0.004	0.012±0.006
100.2	-0.6±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.090±0.007	0.008±0.004	0.010±0.006
110.3	-0.4±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.007±0.004	0.008±0.006
120.5	-0.4±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.007±0.004	0.008±0.006
130.7	-0.4±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.008±0.004	0.008±0.006
140.8	-0.4±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.007±0.004	0.008±0.006

Table B.337 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-178 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	-0.2±0.3	1.6±0.6	-0.76±0.01	-1.18±0.02	0.651±0.007	0.651±0.007	0.018±0.007	0.002±0.004
4.7	-0.1±0.3	0.6±0.6	-0.72±0.01	-1.18±0.02	0.676±0.007	0.676±0.007	0.008±0.007	0.001±0.004
5.7	-0.1±0.3	0.4±0.5	-0.70±0.01	-1.18±0.02	0.695±0.007	0.695±0.007	0.005±0.006	0.001±0.004
6.7	-0.2±0.3	0.3±0.5	-0.68±0.01	-1.19±0.02	0.715±0.007	0.715±0.007	0.004±0.006	0.002±0.004
7.7	-0.2±0.3	0.2±0.5	-0.65±0.01	-1.19±0.02	0.735±0.007	0.735±0.007	0.002±0.006	0.002±0.004
8.7	-0.1±0.3	0.0±0.5	-0.62±0.01	-1.18±0.02	0.746±0.007	0.746±0.007	0.000±0.006	0.001±0.004
9.8	-0.2±0.3	0.0±0.4	-0.61±0.01	-1.18±0.02	0.760±0.007	0.760±0.007	0.000±0.006	0.003±0.004
10.8	-0.2±0.3	-0.1±0.4	-0.59±0.01	-1.18±0.02	0.770±0.007	0.770±0.007	-0.001±0.006	0.003±0.004
11.8	-0.1±0.3	0.0±0.4	-0.57±0.01	-1.18±0.02	0.782±0.007	0.782±0.007	0.000±0.006	0.002±0.004
12.8	-0.2±0.3	0.0±0.4	-0.57±0.01	-1.19±0.02	0.790±0.007	0.790±0.007	0.000±0.006	0.003±0.004
13.8	-0.2±0.3	0.0±0.4	-0.54±0.01	-1.17±0.02	0.797±0.007	0.797±0.007	0.000±0.006	0.002±0.004
16.4	-0.2±0.3	0.0±0.4	-0.50±0.01	-1.17±0.02	0.817±0.007	0.817±0.007	0.000±0.005	0.003±0.005
18.9	-0.2±0.3	0.1±0.4	-0.48±0.01	-1.18±0.02	0.839±0.007	0.839±0.007	0.002±0.005	0.003±0.005
21.4	-0.2±0.3	0.1±0.3	-0.45±0.01	-1.18±0.02	0.854±0.006	0.854±0.006	0.002±0.005	0.002±0.005
24.0	-0.1±0.3	0.1±0.3	-0.42±0.01	-1.18±0.02	0.872±0.006	0.872±0.006	0.002±0.005	0.002±0.005
26.5	-0.3±0.3	0.2±0.3	-0.40±0.01	-1.18±0.02	0.883±0.006	0.883±0.006	0.002±0.005	0.004±0.005
29.1	-0.2±0.3	0.3±0.3	-0.37±0.01	-1.18±0.02	0.899±0.006	0.899±0.006	0.005±0.005	0.004±0.005
31.6	-0.2±0.3	0.2±0.3	-0.34±0.01	-1.18±0.02	0.911±0.006	0.911±0.006	0.002±0.005	0.003±0.005
34.1	-0.2±0.3	0.2±0.3	-0.32±0.01	-1.17±0.02	0.921±0.006	0.921±0.006	0.003±0.005	0.004±0.005
36.7	-0.3±0.3	0.2±0.3	-0.31±0.01	-1.18±0.02	0.934±0.006	0.934±0.006	0.003±0.005	0.004±0.005
39.2	-0.3±0.3	0.3±0.3	-0.28±0.01	-1.17±0.02	0.946±0.006	0.946±0.006	0.004±0.005	0.005±0.005
44.3	-0.3±0.3	0.3±0.3	-0.24±0.01	-1.18±0.02	0.967±0.006	0.967±0.006	0.006±0.005	0.005±0.005
49.4	-0.3±0.3	0.3±0.3	-0.20±0.01	-1.18±0.02	0.989±0.006	0.989±0.006	0.006±0.004	0.005±0.005
54.5	-0.3±0.3	0.4±0.2	-0.17±0.01	-1.18±0.02	1.007±0.006	1.007±0.006	0.006±0.004	0.005±0.006
59.5	-0.3±0.3	0.4±0.2	-0.13±0.01	-1.17±0.02	1.023±0.006	1.023±0.006	0.007±0.004	0.005±0.006
64.6	-0.3±0.3	0.4±0.2	-0.10±0.01	-1.18±0.02	1.042±0.007	1.042±0.007	0.007±0.004	0.005±0.006
69.7	-0.3±0.3	0.4±0.2	-0.06±0.01	-1.18±0.02	1.055±0.007	1.055±0.007	0.007±0.004	0.005±0.006
74.8	-0.2±0.3	0.4±0.2	-0.04±0.01	-1.17±0.02	1.065±0.007	1.065±0.007	0.007±0.004	0.004±0.006
79.9	-0.2±0.3	0.4±0.2	-0.02±0.01	-1.18±0.02	1.076±0.007	1.076±0.007	0.007±0.004	0.004±0.006
84.9	-0.2±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.081±0.007	1.081±0.007	0.008±0.004	0.004±0.006
90.0	-0.2±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.008±0.004	0.004±0.006
100.2	-0.2±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.088±0.007	1.088±0.007	0.008±0.004	0.004±0.006
110.3	-0.1±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.089±0.007	1.089±0.007	0.007±0.004	0.002±0.006
120.5	-0.1±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.089±0.007	1.089±0.007	0.007±0.004	0.002±0.006
130.7	0.0±0.3	0.3±0.2	0.01±0.01	-1.17±0.02	1.089±0.007	1.089±0.007	0.006±0.004	0.000±0.006
140.8	0.1±0.3	0.3±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.005±0.004	-0.001±0.006

Table B.338 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-152 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.2±0.3	1.5±0.6	-0.76±0.01	-1.20±0.02	0.663±0.007	0.663±0.007	0.017±0.007	-0.003±0.004
4.7	0.0±0.3	0.4±0.5	-0.70±0.01	-1.18±0.02	0.690±0.007	0.690±0.007	0.005±0.006	0.000±0.004
5.7	0.0±0.3	0.3±0.5	-0.69±0.01	-1.19±0.02	0.708±0.007	0.708±0.007	0.004±0.006	0.000±0.004
6.7	-0.1±0.3	0.2±0.5	-0.65±0.01	-1.18±0.02	0.730±0.007	0.730±0.007	0.003±0.006	0.001±0.004
7.7	-0.1±0.3	0.0±0.5	-0.63±0.01	-1.19±0.02	0.747±0.007	0.747±0.007	0.000±0.006	0.001±0.004
8.7	-0.2±0.3	-0.1±0.4	-0.61±0.01	-1.19±0.02	0.762±0.007	0.762±0.007	-0.001±0.006	0.002±0.004
9.8	-0.1±0.3	-0.1±0.4	-0.59±0.01	-1.19±0.02	0.774±0.007	0.774±0.007	-0.001±0.006	0.001±0.004
10.8	-0.1±0.3	-0.1±0.4	-0.57±0.01	-1.19±0.02	0.786±0.007	0.786±0.007	-0.001±0.006	0.002±0.004
11.8	-0.2±0.3	-0.1±0.4	-0.55±0.01	-1.19±0.02	0.796±0.007	0.796±0.007	-0.001±0.006	0.002±0.004
12.8	-0.2±0.3	-0.1±0.4	-0.54±0.01	-1.19±0.02	0.805±0.007	0.805±0.007	-0.001±0.005	0.003±0.004
13.8	-0.1±0.3	-0.1±0.4	-0.52±0.01	-1.18±0.02	0.815±0.007	0.815±0.007	-0.001±0.005	0.001±0.004
16.4	-0.1±0.3	-0.1±0.4	-0.49±0.01	-1.19±0.02	0.834±0.007	0.834±0.007	-0.001±0.005	0.002±0.005
18.9	-0.2±0.3	0.0±0.3	-0.45±0.01	-1.19±0.02	0.856±0.006	0.856±0.006	0.000±0.005	0.003±0.005
21.4	-0.1±0.3	0.0±0.3	-0.43±0.01	-1.19±0.02	0.868±0.006	0.868±0.006	0.001±0.005	0.002±0.005
24.0	-0.3±0.3	0.0±0.3	-0.41±0.01	-1.18±0.02	0.882±0.006	0.882±0.006	0.001±0.005	0.004±0.005
26.5	-0.3±0.3	0.1±0.3	-0.38±0.01	-1.18±0.02	0.897±0.006	0.897±0.006	0.001±0.005	0.004±0.005
29.1	-0.2±0.3	0.1±0.3	-0.36±0.01	-1.19±0.02	0.911±0.006	0.911±0.006	0.002±0.005	0.003±0.005
31.6	-0.2±0.3	0.1±0.3	-0.33±0.01	-1.18±0.02	0.924±0.006	0.924±0.006	0.001±0.005	0.004±0.005
34.1	-0.3±0.3	0.1±0.3	-0.31±0.01	-1.19±0.02	0.937±0.006	0.937±0.006	0.002±0.005	0.005±0.005
36.7	-0.3±0.3	0.1±0.3	-0.29±0.01	-1.19±0.02	0.948±0.006	0.948±0.006	0.002±0.005	0.005±0.005
39.2	-0.3±0.3	0.1±0.3	-0.27±0.01	-1.19±0.02	0.962±0.006	0.962±0.006	0.002±0.005	0.006±0.005
44.3	-0.4±0.3	0.1±0.3	-0.23±0.01	-1.18±0.02	0.978±0.006	0.978±0.006	0.002±0.004	0.006±0.005
49.4	-0.4±0.3	0.2±0.3	-0.19±0.01	-1.19±0.02	1.000±0.006	1.000±0.006	0.004±0.004	0.007±0.006
54.5	-0.4±0.3	0.3±0.2	-0.15±0.01	-1.18±0.02	1.018±0.006	1.018±0.006	0.005±0.004	0.008±0.006
59.5	-0.4±0.3	0.3±0.2	-0.11±0.01	-1.18±0.02	1.034±0.006	1.034±0.006	0.005±0.004	0.006±0.006
64.6	-0.4±0.3	0.3±0.2	-0.09±0.01	-1.19±0.02	1.050±0.007	1.049±0.007	0.006±0.004	0.007±0.006
69.7	-0.4±0.3	0.3±0.2	-0.05±0.01	-1.18±0.02	1.065±0.007	1.065±0.007	0.006±0.004	0.007±0.006
74.8	-0.4±0.3	0.3±0.2	-0.03±0.01	-1.18±0.02	1.073±0.007	1.073±0.007	0.006±0.004	0.007±0.006
79.9	-0.4±0.3	0.4±0.2	-0.01±0.01	-1.18±0.02	1.081±0.007	1.081±0.007	0.007±0.004	0.007±0.006
84.9	-0.4±0.3	0.3±0.2	0.00±0.01	-1.18±0.02	1.086±0.007	1.086±0.007	0.006±0.004	0.008±0.006
90.0	-0.3±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.007±0.004	0.006±0.006
100.2	-0.3±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.090±0.007	0.007±0.004	0.006±0.006
110.3	-0.3±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.090±0.007	0.007±0.004	0.005±0.006
120.5	-0.2±0.3	0.3±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.090±0.007	0.006±0.004	0.003±0.006
130.7	-0.1±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.090±0.007	0.005±0.004	0.002±0.006
140.8	0.0±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.003±0.004	0.001±0.006

Table B.339 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-127 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.5±0.3	1.6±0.6	-0.76±0.01	-1.18±0.02	0.645±0.007	0.645±0.007	0.018±0.007	-0.006±0.004
4.7	0.3±0.3	0.8±0.6	-0.73±0.01	-1.18±0.02	0.670±0.007	0.670±0.007	0.009±0.007	-0.003±0.004
5.7	0.2±0.3	0.4±0.5	-0.70±0.01	-1.18±0.02	0.690±0.007	0.690±0.007	0.005±0.006	-0.002±0.004
6.7	0.1±0.3	0.3±0.5	-0.67±0.01	-1.18±0.02	0.711±0.007	0.711±0.007	0.004±0.006	-0.001±0.004
7.7	0.0±0.3	0.1±0.5	-0.65±0.01	-1.18±0.02	0.728±0.007	0.728±0.007	0.002±0.006	0.000±0.004
8.7	-0.2±0.3	0.0±0.5	-0.63±0.01	-1.18±0.02	0.741±0.007	0.741±0.007	0.000±0.006	0.002±0.004
9.8	-0.1±0.3	0.0±0.4	-0.61±0.01	-1.18±0.02	0.758±0.007	0.758±0.007	0.000±0.006	0.001±0.004
10.8	-0.1±0.3	-0.1±0.4	-0.59±0.01	-1.18±0.02	0.773±0.007	0.773±0.007	-0.001±0.006	0.001±0.004
11.8	-0.2±0.3	-0.1±0.4	-0.57±0.01	-1.17±0.02	0.776±0.007	0.776±0.007	-0.001±0.006	0.003±0.004
12.8	-0.2±0.3	0.0±0.4	-0.56±0.01	-1.18±0.02	0.785±0.007	0.785±0.007	0.000±0.006	0.002±0.004
13.8	-0.2±0.3	0.0±0.4	-0.54±0.01	-1.18±0.02	0.800±0.007	0.800±0.007	0.000±0.005	0.002±0.004
16.4	-0.1±0.3	0.1±0.4	-0.51±0.01	-1.19±0.02	0.824±0.007	0.824±0.007	0.001±0.005	0.001±0.005
18.9	-0.2±0.3	0.0±0.4	-0.48±0.01	-1.18±0.02	0.841±0.006	0.841±0.006	0.001±0.005	0.002±0.005
21.4	-0.2±0.3	0.1±0.3	-0.45±0.01	-1.19±0.02	0.859±0.006	0.859±0.006	0.002±0.005	0.003±0.005
24.0	-0.2±0.3	0.1±0.3	-0.42±0.01	-1.17±0.02	0.866±0.006	0.866±0.006	0.002±0.005	0.003±0.005
26.5	-0.3±0.3	0.1±0.3	-0.39±0.01	-1.17±0.02	0.886±0.006	0.886±0.006	0.002±0.005	0.004±0.005
29.1	-0.4±0.3	0.3±0.3	-0.37±0.01	-1.19±0.02	0.903±0.006	0.903±0.006	0.004±0.005	0.006±0.005
31.6	-0.4±0.3	0.3±0.3	-0.34±0.01	-1.17±0.02	0.914±0.006	0.914±0.006	0.004±0.005	0.006±0.005
34.1	-0.4±0.3	0.3±0.3	-0.33±0.01	-1.18±0.02	0.924±0.006	0.924±0.006	0.005±0.005	0.006±0.005
36.7	-0.5±0.3	0.3±0.3	-0.30±0.01	-1.17±0.02	0.937±0.006	0.937±0.006	0.004±0.005	0.008±0.005
39.2	-0.5±0.3	0.3±0.3	-0.28±0.01	-1.18±0.02	0.949±0.006	0.949±0.006	0.004±0.005	0.008±0.005
44.3	-0.5±0.3	0.3±0.3	-0.23±0.01	-1.18±0.02	0.975±0.006	0.975±0.006	0.005±0.004	0.009±0.005
49.4	-0.6±0.3	0.4±0.3	-0.19±0.01	-1.17±0.02	0.990±0.006	0.990±0.006	0.006±0.004	0.010±0.005
54.5	-0.6±0.3	0.4±0.2	-0.16±0.01	-1.18±0.02	1.011±0.006	1.011±0.006	0.006±0.004	0.011±0.006
59.5	-0.6±0.3	0.4±0.2	-0.11±0.01	-1.17±0.02	1.027±0.006	1.027±0.006	0.007±0.004	0.011±0.006
64.6	-0.6±0.3	0.4±0.2	-0.09±0.01	-1.18±0.02	1.046±0.007	1.046±0.006	0.007±0.004	0.010±0.006
69.7	-0.6±0.3	0.4±0.2	-0.06±0.01	-1.18±0.02	1.060±0.007	1.060±0.007	0.007±0.004	0.011±0.006
74.8	-0.6±0.3	0.4±0.2	-0.03±0.01	-1.18±0.02	1.071±0.007	1.071±0.007	0.007±0.004	0.012±0.006
79.9	-0.6±0.3	0.4±0.2	-0.01±0.01	-1.18±0.02	1.080±0.007	1.080±0.007	0.007±0.004	0.012±0.006
84.9	-0.6±0.3	0.4±0.2	-0.01±0.01	-1.18±0.02	1.084±0.007	1.084±0.007	0.007±0.004	0.012±0.006
90.0	-0.6±0.3	0.4±0.2	0.00±0.01	-1.18±0.02	1.087±0.007	1.087±0.007	0.007±0.004	0.011±0.006
100.2	-0.5±0.3	0.4±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.007±0.004	0.010±0.006
110.3	-0.4±0.3	0.3±0.2	0.01±0.01	-1.18±0.02	1.090±0.007	1.090±0.007	0.005±0.004	0.008±0.006
120.5	-0.4±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.089±0.007	1.089±0.007	0.004±0.004	0.008±0.006
130.7	-0.4±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.004±0.004	0.007±0.006
140.8	-0.4±0.3	0.2±0.2	0.01±0.01	-1.18±0.02	1.091±0.007	1.091±0.007	0.003±0.004	0.007±0.006

Table B.340 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-102 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.9±0.3	1.8±0.6	-0.78±0.01	-1.18±0.02	0.629±0.007	0.629±0.007	0.019±0.007	-0.010±0.003
4.7	0.8±0.3	0.8±0.6	-0.75±0.01	-1.18±0.02	0.656±0.007	0.655±0.007	0.009±0.007	-0.009±0.004
5.7	0.5±0.3	0.4±0.6	-0.72±0.01	-1.17±0.02	0.673±0.007	0.673±0.007	0.005±0.006	-0.006±0.004
6.7	0.4±0.3	0.3±0.5	-0.70±0.01	-1.18±0.02	0.695±0.007	0.695±0.007	0.004±0.006	-0.005±0.004
7.7	0.2±0.3	0.2±0.5	-0.67±0.01	-1.18±0.02	0.711±0.007	0.711±0.007	0.003±0.006	-0.003±0.004
8.7	0.1±0.3	0.0±0.5	-0.66±0.01	-1.18±0.02	0.724±0.007	0.724±0.007	0.000±0.006	-0.001±0.004
9.8	0.0±0.3	0.0±0.5	-0.63±0.01	-1.18±0.02	0.737±0.007	0.737±0.007	0.000±0.006	0.000±0.004
10.8	-0.1±0.3	0.0±0.4	-0.61±0.01	-1.18±0.02	0.752±0.007	0.752±0.007	0.000±0.006	0.001±0.004
11.8	-0.1±0.3	0.0±0.4	-0.59±0.01	-1.17±0.02	0.760±0.007	0.760±0.007	0.000±0.006	0.001±0.004
12.8	-0.2±0.3	0.1±0.4	-0.58±0.01	-1.17±0.02	0.773±0.007	0.773±0.007	0.001±0.006	0.003±0.004
13.8	-0.2±0.3	0.1±0.4	-0.57±0.01	-1.18±0.02	0.786±0.007	0.786±0.007	0.001±0.006	0.003±0.004
16.4	-0.2±0.3	0.1±0.4	-0.53±0.01	-1.19±0.02	0.809±0.007	0.809±0.007	0.001±0.005	0.003±0.004
18.9	-0.4±0.3	0.2±0.4	-0.48±0.01	-1.17±0.02	0.829±0.007	0.829±0.007	0.003±0.005	0.006±0.005
21.4	-0.5±0.3	0.3±0.4	-0.47±0.01	-1.18±0.02	0.839±0.006	0.839±0.006	0.004±0.005	0.008±0.005
24.0	-0.6±0.3	0.4±0.3	-0.43±0.01	-1.17±0.02	0.858±0.006	0.858±0.006	0.005±0.005	0.008±0.005
26.5	-0.6±0.3	0.3±0.3	-0.41±0.01	-1.17±0.02	0.871±0.006	0.871±0.006	0.005±0.005	0.009±0.005
29.1	-0.7±0.3	0.4±0.3	-0.39±0.01	-1.18±0.02	0.887±0.006	0.886±0.006	0.005±0.005	0.011±0.005
31.6	-0.8±0.3	0.4±0.3	-0.36±0.01	-1.17±0.02	0.898±0.006	0.898±0.006	0.006±0.005	0.012±0.005
34.1	-0.8±0.3	0.4±0.3	-0.34±0.01	-1.18±0.02	0.915±0.006	0.915±0.006	0.006±0.005	0.013±0.005
36.7	-0.9±0.3	0.4±0.3	-0.32±0.01	-1.17±0.02	0.922±0.006	0.922±0.006	0.006±0.005	0.014±0.005
39.2	-0.9±0.3	0.4±0.3	-0.29±0.01	-1.17±0.02	0.937±0.006	0.937±0.006	0.006±0.005	0.015±0.005
44.3	-1.0±0.3	0.4±0.3	-0.26±0.01	-1.18±0.02	0.959±0.006	0.959±0.006	0.006±0.005	0.017±0.005
49.4	-1.0±0.3	0.4±0.3	-0.21±0.01	-1.16±0.02	0.978±0.006	0.978±0.006	0.006±0.004	0.018±0.005
54.5	-1.1±0.3	0.4±0.2	-0.18±0.01	-1.18±0.02	1.002±0.006	1.001±0.006	0.006±0.004	0.019±0.006
59.5	-1.1±0.3	0.4±0.2	-0.13±0.01	-1.17±0.02	1.017±0.006	1.017±0.006	0.006±0.004	0.020±0.006
64.6	-1.1±0.3	0.4±0.2	-0.11±0.01	-1.18±0.02	1.037±0.006	1.037±0.006	0.007±0.004	0.020±0.006
69.7	-1.2±0.3	0.4±0.2	-0.07±0.01	-1.17±0.02	1.050±0.007	1.049±0.007	0.007±0.004	0.021±0.006
74.8	-1.1±0.3	0.4±0.2	-0.05±0.01	-1.17±0.02	1.061±0.007	1.061±0.007	0.007±0.004	0.021±0.006
79.9	-1.0±0.3	0.4±0.2	-0.02±0.01	-1.17±0.02	1.071±0.007	1.071±0.007	0.007±0.004	0.019±0.006
84.9	-1.1±0.3	0.4±0.2	-0.01±0.01	-1.17±0.02	1.077±0.007	1.077±0.007	0.007±0.004	0.020±0.006
90.0	-1.0±0.3	0.4±0.2	0.00±0.01	-1.17±0.02	1.081±0.007	1.081±0.007	0.007±0.004	0.020±0.006
100.2	-1.0±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.007±0.004	0.019±0.006
110.3	-0.9±0.3	0.4±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.085±0.007	0.007±0.004	0.017±0.006
120.5	-0.9±0.3	0.3±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.086±0.007	0.006±0.004	0.016±0.006
130.7	-0.9±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	0.004±0.004	0.018±0.006
140.8	-0.9±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.087±0.007	1.087±0.007	0.004±0.004	0.016±0.006

Table B.341 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-89 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	1.7±0.3	1.8±0.7	-0.78±0.01	-1.16±0.02	0.615±0.007	0.615±0.007	0.019±0.007	-0.018±0.003
4.7	1.5±0.3	0.8±0.6	-0.75±0.01	-1.17±0.02	0.646±0.007	0.646±0.007	0.009±0.007	-0.017±0.004
5.7	1.3±0.3	0.5±0.6	-0.72±0.01	-1.17±0.02	0.667±0.007	0.666±0.007	0.005±0.007	-0.015±0.004
6.7	1.0±0.3	0.3±0.5	-0.70±0.01	-1.17±0.02	0.686±0.007	0.686±0.007	0.004±0.006	-0.012±0.004
7.7	0.9±0.3	0.3±0.5	-0.68±0.01	-1.17±0.02	0.702±0.007	0.702±0.007	0.003±0.006	-0.011±0.004
8.7	0.6±0.3	0.1±0.5	-0.65±0.01	-1.17±0.02	0.719±0.007	0.719±0.007	0.002±0.006	-0.007±0.004
9.8	0.5±0.3	0.1±0.5	-0.63±0.01	-1.18±0.02	0.737±0.007	0.737±0.007	0.001±0.006	-0.006±0.004
10.8	0.5±0.3	0.1±0.5	-0.61±0.01	-1.17±0.02	0.746±0.007	0.746±0.007	0.001±0.006	-0.006±0.004
11.8	0.3±0.3	0.1±0.4	-0.60±0.01	-1.17±0.02	0.754±0.007	0.754±0.007	0.001±0.006	-0.004±0.004
12.8	0.2±0.3	0.1±0.4	-0.58±0.01	-1.17±0.02	0.772±0.007	0.772±0.007	0.001±0.006	-0.002±0.004
13.8	0.1±0.3	0.1±0.4	-0.56±0.01	-1.17±0.02	0.778±0.007	0.778±0.007	0.002±0.006	-0.002±0.004
16.4	0.0±0.3	0.2±0.4	-0.52±0.01	-1.18±0.02	0.807±0.007	0.807±0.007	0.003±0.005	0.000±0.004
18.9	-0.1±0.3	0.3±0.4	-0.50±0.01	-1.18±0.02	0.824±0.007	0.824±0.007	0.004±0.005	0.001±0.005
21.4	-0.3±0.3	0.4±0.4	-0.47±0.01	-1.17±0.02	0.838±0.006	0.838±0.006	0.005±0.005	0.004±0.005
24.0	-0.4±0.3	0.3±0.3	-0.44±0.01	-1.17±0.02	0.854±0.006	0.854±0.006	0.005±0.005	0.005±0.005
26.5	-0.5±0.3	0.3±0.3	-0.41±0.01	-1.16±0.02	0.870±0.006	0.870±0.006	0.005±0.005	0.007±0.005
29.1	-0.6±0.3	0.4±0.3	-0.39±0.01	-1.16±0.02	0.880±0.006	0.880±0.006	0.006±0.005	0.010±0.005
31.6	-0.6±0.3	0.4±0.3	-0.36±0.01	-1.17±0.02	0.900±0.006	0.900±0.006	0.006±0.005	0.010±0.005
34.1	-0.8±0.3	0.4±0.3	-0.35±0.01	-1.18±0.02	0.913±0.006	0.913±0.006	0.006±0.005	0.012±0.005
36.7	-0.8±0.3	0.4±0.3	-0.32±0.01	-1.18±0.02	0.924±0.006	0.924±0.006	0.006±0.005	0.013±0.005
39.2	-0.9±0.3	0.4±0.3	-0.29±0.01	-1.16±0.02	0.933±0.006	0.933±0.006	0.006±0.005	0.014±0.005
44.3	-0.9±0.3	0.4±0.3	-0.26±0.01	-1.17±0.02	0.954±0.006	0.954±0.006	0.006±0.005	0.015±0.005
49.4	-1.0±0.3	0.4±0.3	-0.21±0.01	-1.16±0.02	0.977±0.006	0.977±0.006	0.006±0.004	0.017±0.005
54.5	-1.0±0.3	0.4±0.3	-0.17±0.01	-1.17±0.02	0.995±0.006	0.995±0.006	0.006±0.004	0.018±0.005
59.5	-1.1±0.3	0.4±0.2	-0.14±0.01	-1.16±0.02	1.013±0.006	1.013±0.006	0.007±0.004	0.019±0.006
64.6	-1.1±0.3	0.4±0.2	-0.10±0.01	-1.16±0.02	1.031±0.006	1.031±0.006	0.007±0.004	0.020±0.006
69.7	-1.0±0.3	0.4±0.2	-0.07±0.01	-1.16±0.02	1.045±0.006	1.045±0.006	0.007±0.004	0.019±0.006
74.8	-1.1±0.3	0.3±0.2	-0.05±0.01	-1.17±0.02	1.056±0.007	1.056±0.007	0.006±0.004	0.019±0.006
79.9	-1.1±0.3	0.3±0.2	-0.02±0.01	-1.16±0.02	1.068±0.007	1.068±0.007	0.006±0.004	0.020±0.006
84.9	-1.1±0.3	0.4±0.2	-0.01±0.01	-1.16±0.02	1.075±0.007	1.075±0.007	0.007±0.004	0.020±0.006
90.0	-1.0±0.3	0.3±0.2	0.00±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.005±0.004	0.018±0.006
100.2	-0.9±0.3	0.3±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.082±0.007	0.005±0.004	0.018±0.006
110.3	-0.9±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	0.003±0.004	0.016±0.006
120.5	-0.8±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.003±0.004	0.015±0.006
130.7	-0.8±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.003±0.004	0.015±0.006
140.8	-0.8±0.3	0.2±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.003±0.004	0.015±0.006

Table B.342 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-76 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.4±0.3	1.8±0.7	-0.78±0.01	-1.16±0.02	0.618±0.007	0.617±0.007	0.019±0.007	-0.026±0.003
4.7	2.1±0.3	0.8±0.6	-0.75±0.01	-1.17±0.02	0.645±0.007	0.645±0.007	0.009±0.007	-0.023±0.004
5.7	1.7±0.3	0.5±0.6	-0.72±0.01	-1.17±0.02	0.668±0.007	0.668±0.007	0.006±0.007	-0.020±0.004
6.7	1.4±0.3	0.3±0.5	-0.70±0.01	-1.16±0.02	0.680±0.007	0.680±0.007	0.004±0.006	-0.017±0.004
7.7	1.3±0.3	0.3±0.5	-0.67±0.01	-1.16±0.02	0.698±0.007	0.698±0.007	0.003±0.006	-0.015±0.004
8.7	1.1±0.3	0.1±0.5	-0.66±0.01	-1.17±0.02	0.712±0.007	0.712±0.007	0.001±0.006	-0.013±0.004
9.8	0.9±0.3	0.1±0.5	-0.64±0.01	-1.18±0.02	0.734±0.007	0.734±0.007	0.001±0.006	-0.011±0.004
10.8	0.7±0.3	0.1±0.4	-0.62±0.01	-1.18±0.02	0.747±0.007	0.747±0.007	0.002±0.006	-0.009±0.004
11.8	0.6±0.3	0.2±0.4	-0.60±0.01	-1.17±0.02	0.755±0.007	0.755±0.007	0.002±0.006	-0.008±0.004
12.8	0.5±0.3	0.2±0.4	-0.58±0.01	-1.18±0.02	0.772±0.007	0.772±0.007	0.002±0.006	-0.007±0.004
13.8	0.3±0.3	0.2±0.4	-0.57±0.01	-1.18±0.02	0.781±0.007	0.781±0.007	0.003±0.006	-0.004±0.004
16.4	0.1±0.3	0.2±0.4	-0.53±0.01	-1.17±0.02	0.801±0.007	0.801±0.007	0.003±0.005	-0.001±0.004
18.9	0.0±0.3	0.3±0.4	-0.50±0.01	-1.17±0.02	0.822±0.007	0.822±0.007	0.004±0.005	0.001±0.005
21.4	-0.3±0.3	0.4±0.4	-0.46±0.01	-1.16±0.02	0.838±0.006	0.838±0.006	0.005±0.005	0.004±0.005
24.0	-0.4±0.3	0.4±0.3	-0.43±0.01	-1.16±0.02	0.854±0.006	0.854±0.006	0.005±0.005	0.006±0.005
26.5	-0.6±0.3	0.4±0.3	-0.41±0.01	-1.17±0.02	0.869±0.006	0.869±0.006	0.005±0.005	0.008±0.005
29.1	-0.7±0.3	0.4±0.3	-0.39±0.01	-1.17±0.02	0.881±0.006	0.881±0.006	0.005±0.005	0.011±0.005
31.6	-0.7±0.3	0.4±0.3	-0.37±0.01	-1.17±0.02	0.896±0.006	0.896±0.006	0.006±0.005	0.011±0.005
34.1	-0.8±0.3	0.4±0.3	-0.35±0.01	-1.18±0.02	0.913±0.006	0.913±0.006	0.006±0.005	0.013±0.005
36.7	-0.9±0.3	0.4±0.3	-0.32±0.01	-1.17±0.02	0.918±0.006	0.918±0.006	0.006±0.005	0.015±0.005
39.2	-0.9±0.3	0.4±0.3	-0.29±0.01	-1.16±0.02	0.931±0.006	0.931±0.006	0.006±0.005	0.015±0.005
44.3	-1.1±0.3	0.4±0.3	-0.26±0.01	-1.17±0.02	0.953±0.006	0.953±0.006	0.006±0.005	0.017±0.005
49.4	-1.1±0.3	0.4±0.3	-0.21±0.01	-1.17±0.02	0.979±0.006	0.978±0.006	0.006±0.004	0.019±0.005
54.5	-1.2±0.3	0.4±0.3	-0.17±0.01	-1.16±0.02	0.993±0.006	0.993±0.006	0.006±0.004	0.021±0.005
59.5	-1.2±0.3	0.3±0.2	-0.13±0.01	-1.16±0.02	1.015±0.006	1.014±0.006	0.006±0.004	0.021±0.006
64.6	-1.2±0.3	0.3±0.2	-0.10±0.01	-1.16±0.02	1.028±0.006	1.028±0.006	0.005±0.004	0.022±0.006
69.7	-1.2±0.3	0.4±0.2	-0.07±0.01	-1.16±0.02	1.044±0.006	1.043±0.006	0.007±0.004	0.022±0.006
74.8	-1.2±0.3	0.2±0.2	-0.05±0.01	-1.17±0.02	1.057±0.007	1.056±0.007	0.004±0.004	0.023±0.006
79.9	-1.2±0.3	0.3±0.2	-0.02±0.01	-1.16±0.02	1.068±0.007	1.068±0.007	0.006±0.004	0.022±0.006
84.9	-1.1±0.3	0.2±0.2	-0.01±0.01	-1.16±0.02	1.074±0.007	1.074±0.007	0.004±0.004	0.021±0.006
90.0	-1.1±0.3	0.2±0.2	0.00±0.01	-1.16±0.02	1.078±0.007	1.077±0.007	0.004±0.004	0.020±0.006
100.2	-1.0±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.004±0.004	0.018±0.006
110.3	-1.0±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.003±0.004	0.019±0.006
120.5	-0.9±0.3	0.1±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.003±0.004	0.017±0.006
130.7	-0.8±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	0.000±0.004	0.015±0.006
140.8	-0.8±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	0.000±0.004	0.015±0.006

Table B.343 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-70 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	2.8±0.3	1.7±0.6	-0.77±0.01	-1.16±0.02	0.625±0.007	0.624±0.007	0.019±0.007	-0.030±0.003
4.7	2.6±0.3	0.8±0.6	-0.75±0.01	-1.17±0.02	0.649±0.007	0.648±0.007	0.009±0.007	-0.029±0.004
5.7	2.2±0.3	0.5±0.6	-0.72±0.01	-1.17±0.02	0.667±0.007	0.666±0.007	0.006±0.007	-0.026±0.004
6.7	2.0±0.3	0.3±0.5	-0.70±0.01	-1.17±0.02	0.686±0.007	0.685±0.007	0.004±0.006	-0.024±0.004
7.7	1.7±0.3	0.3±0.5	-0.67±0.01	-1.17±0.02	0.707±0.007	0.707±0.007	0.004±0.006	-0.021±0.004
8.7	1.4±0.3	0.1±0.5	-0.65±0.01	-1.16±0.02	0.719±0.007	0.718±0.007	0.002±0.006	-0.018±0.004
9.8	1.2±0.3	0.0±0.5	-0.63±0.01	-1.16±0.02	0.729±0.007	0.729±0.007	0.000±0.006	-0.015±0.004
10.8	1.0±0.3	0.0±0.5	-0.61±0.01	-1.17±0.02	0.745±0.007	0.745±0.007	0.001±0.006	-0.013±0.004
11.8	0.8±0.3	0.0±0.4	-0.59±0.01	-1.17±0.02	0.758±0.007	0.758±0.007	0.000±0.006	-0.011±0.004
12.8	0.7±0.3	0.1±0.4	-0.57±0.01	-1.17±0.02	0.771±0.007	0.771±0.007	0.001±0.006	-0.009±0.004
13.8	0.6±0.3	0.1±0.4	-0.56±0.01	-1.16±0.02	0.778±0.007	0.778±0.007	0.001±0.006	-0.008±0.004
16.4	0.3±0.3	0.1±0.4	-0.52±0.01	-1.17±0.02	0.806±0.007	0.806±0.007	0.002±0.005	-0.005±0.004
18.9	0.1±0.3	0.3±0.4	-0.48±0.01	-1.16±0.02	0.824±0.007	0.823±0.007	0.004±0.005	-0.002±0.005
21.4	-0.1±0.3	0.3±0.4	-0.46±0.01	-1.16±0.02	0.840±0.006	0.840±0.006	0.005±0.005	0.001±0.005
24.0	-0.2±0.3	0.3±0.3	-0.44±0.01	-1.17±0.02	0.857±0.006	0.857±0.006	0.005±0.005	0.004±0.005
26.5	-0.4±0.3	0.3±0.3	-0.41±0.01	-1.17±0.02	0.869±0.006	0.869±0.006	0.005±0.005	0.006±0.005
29.1	-0.5±0.3	0.4±0.3	-0.39±0.01	-1.17±0.02	0.884±0.006	0.884±0.006	0.005±0.005	0.008±0.005
31.6	-0.6±0.3	0.3±0.3	-0.37±0.01	-1.17±0.02	0.897±0.006	0.897±0.006	0.005±0.005	0.009±0.005
34.1	-0.8±0.3	0.4±0.3	-0.34±0.01	-1.16±0.02	0.908±0.006	0.908±0.006	0.006±0.005	0.012±0.005
36.7	-0.8±0.3	0.3±0.3	-0.32±0.01	-1.17±0.02	0.924±0.006	0.924±0.006	0.005±0.005	0.013±0.005
39.2	-0.9±0.3	0.3±0.3	-0.30±0.01	-1.17±0.02	0.931±0.006	0.931±0.006	0.005±0.005	0.014±0.005
44.3	-1.0±0.3	0.2±0.3	-0.25±0.01	-1.16±0.02	0.952±0.006	0.952±0.006	0.004±0.005	0.016±0.005
49.4	-1.0±0.3	0.3±0.3	-0.21±0.01	-1.17±0.02	0.979±0.006	0.979±0.006	0.004±0.004	0.017±0.005
54.5	-1.1±0.3	0.3±0.3	-0.18±0.01	-1.17±0.02	0.995±0.006	0.995±0.006	0.005±0.004	0.019±0.005
59.5	-1.2±0.3	0.2±0.2	-0.14±0.01	-1.16±0.02	1.011±0.006	1.011±0.006	0.004±0.004	0.021±0.006
64.6	-1.2±0.3	0.2±0.2	-0.10±0.01	-1.15±0.02	1.028±0.006	1.028±0.006	0.003±0.004	0.021±0.006
69.7	-1.1±0.3	0.2±0.2	-0.08±0.01	-1.17±0.02	1.042±0.006	1.041±0.006	0.003±0.004	0.021±0.006
74.8	-1.1±0.3	0.2±0.2	-0.04±0.01	-1.16±0.02	1.057±0.007	1.057±0.007	0.003±0.004	0.021±0.006
79.9	-1.1±0.3	0.2±0.2	-0.02±0.01	-1.17±0.02	1.069±0.007	1.068±0.007	0.003±0.004	0.020±0.006
84.9	-1.1±0.3	0.2±0.2	-0.01±0.01	-1.16±0.02	1.072±0.007	1.072±0.007	0.003±0.004	0.020±0.006
90.0	-1.0±0.3	0.2±0.2	0.00±0.01	-1.16±0.02	1.079±0.007	1.078±0.007	0.003±0.004	0.018±0.006
100.2	-0.9±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.003±0.004	0.018±0.006
110.3	-0.9±0.3	0.1±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.003±0.004	0.017±0.006
120.5	-0.9±0.3	0.1±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.003±0.004	0.016±0.006
130.7	-0.8±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	0.000±0.004	0.014±0.006
140.8	-0.7±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.083±0.007	1.083±0.007	-0.001±0.004	0.013±0.006

Table B.344 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-64 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.2±0.3	1.9±0.7	-0.78±0.01	-1.17±0.02	0.624±0.007	0.623±0.007	0.020±0.007	-0.034±0.003
4.7	2.8±0.3	1.0±0.6	-0.74±0.01	-1.17±0.02	0.648±0.007	0.648±0.007	0.011±0.007	-0.032±0.004
5.7	2.4±0.3	0.5±0.6	-0.72±0.01	-1.17±0.02	0.673±0.007	0.672±0.007	0.006±0.007	-0.029±0.004
6.7	2.0±0.3	0.3±0.5	-0.69±0.01	-1.17±0.02	0.690±0.007	0.690±0.007	0.004±0.006	-0.025±0.004
7.7	1.8±0.3	0.3±0.5	-0.67±0.01	-1.17±0.02	0.707±0.007	0.706±0.007	0.003±0.006	-0.022±0.004
8.7	1.4±0.3	0.2±0.5	-0.64±0.01	-1.16±0.02	0.718±0.007	0.718±0.007	0.002±0.006	-0.018±0.004
9.8	1.2±0.3	0.1±0.5	-0.62±0.01	-1.16±0.02	0.737±0.007	0.737±0.007	0.001±0.006	-0.016±0.004
10.8	1.1±0.3	0.0±0.4	-0.60±0.01	-1.17±0.02	0.752±0.007	0.752±0.007	0.000±0.006	-0.014±0.004
11.8	0.9±0.3	0.0±0.4	-0.58±0.01	-1.17±0.02	0.762±0.007	0.762±0.007	0.000±0.006	-0.012±0.004
12.8	0.7±0.3	0.0±0.4	-0.56±0.01	-1.16±0.02	0.772±0.007	0.772±0.007	0.000±0.006	-0.010±0.004
13.8	0.6±0.3	0.1±0.4	-0.55±0.01	-1.17±0.02	0.785±0.007	0.785±0.007	0.001±0.006	-0.008±0.004
16.4	0.2±0.3	0.0±0.4	-0.51±0.01	-1.17±0.02	0.811±0.007	0.810±0.007	0.000±0.005	-0.003±0.004
18.9	0.0±0.3	0.2±0.4	-0.48±0.01	-1.17±0.02	0.831±0.007	0.831±0.007	0.004±0.005	0.000±0.005
21.4	-0.2±0.3	0.3±0.4	-0.45±0.01	-1.16±0.02	0.844±0.007	0.844±0.007	0.004±0.005	0.002±0.005
24.0	-0.4±0.3	0.3±0.3	-0.42±0.01	-1.16±0.02	0.861±0.006	0.861±0.006	0.004±0.005	0.006±0.005
26.5	-0.5±0.3	0.3±0.3	-0.40±0.01	-1.17±0.02	0.877±0.006	0.877±0.006	0.005±0.005	0.008±0.005
29.1	-0.6±0.3	0.3±0.3	-0.38±0.01	-1.16±0.02	0.886±0.006	0.886±0.006	0.004±0.005	0.009±0.005
31.6	-0.7±0.3	0.2±0.3	-0.35±0.01	-1.16±0.02	0.899±0.006	0.899±0.006	0.004±0.005	0.012±0.005
34.1	-0.9±0.3	0.2±0.3	-0.33±0.01	-1.16±0.02	0.913±0.006	0.912±0.006	0.004±0.005	0.014±0.005
36.7	-0.9±0.3	0.2±0.3	-0.31±0.01	-1.16±0.02	0.922±0.006	0.922±0.006	0.003±0.005	0.015±0.005
39.2	-1.0±0.3	0.2±0.3	-0.29±0.01	-1.16±0.02	0.935±0.006	0.935±0.006	0.003±0.005	0.017±0.005
44.3	-1.1±0.3	0.1±0.3	-0.24±0.01	-1.16±0.02	0.958±0.006	0.958±0.006	0.003±0.005	0.018±0.005
49.4	-1.2±0.3	0.1±0.3	-0.20±0.01	-1.15±0.02	0.977±0.006	0.976±0.006	0.002±0.004	0.020±0.005
54.5	-1.2±0.3	0.1±0.3	-0.17±0.01	-1.16±0.02	0.994±0.006	0.994±0.006	0.002±0.004	0.022±0.005
59.5	-1.3±0.3	0.1±0.2	-0.14±0.01	-1.16±0.02	1.012±0.006	1.012±0.006	0.002±0.004	0.023±0.006
64.6	-1.3±0.3	0.1±0.2	-0.10±0.01	-1.16±0.02	1.030±0.006	1.029±0.006	0.003±0.004	0.023±0.006
69.7	-1.2±0.3	0.1±0.2	-0.07±0.01	-1.16±0.02	1.044±0.007	1.044±0.007	0.003±0.004	0.023±0.006
74.8	-1.2±0.3	0.2±0.2	-0.05±0.01	-1.16±0.02	1.055±0.007	1.055±0.007	0.003±0.004	0.023±0.006
79.9	-1.2±0.3	0.2±0.2	-0.03±0.01	-1.17±0.02	1.067±0.007	1.066±0.007	0.003±0.004	0.022±0.006
84.9	-1.2±0.3	0.2±0.2	-0.01±0.01	-1.16±0.02	1.073±0.007	1.072±0.007	0.003±0.004	0.022±0.006
90.0	-1.1±0.3	0.2±0.2	0.00±0.01	-1.16±0.02	1.075±0.007	1.075±0.007	0.003±0.004	0.021±0.006
100.2	-0.9±0.3	0.1±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.001±0.004	0.018±0.006
110.3	-0.9±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.080±0.007	0.003±0.004	0.018±0.006
120.5	-1.0±0.3	0.1±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.002±0.004	0.019±0.006
130.7	-0.9±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.003±0.004	0.017±0.006
140.8	-0.7±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.000±0.004	0.014±0.006

Table B.345 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-57 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.5±0.3	1.7±0.6	-0.77±0.01	-1.17±0.02	0.635±0.007	0.633±0.007	0.018±0.007	-0.039±0.004
4.7	3.1±0.3	0.9±0.6	-0.74±0.01	-1.17±0.02	0.658±0.007	0.657±0.007	0.010±0.007	-0.036±0.004
5.7	2.8±0.3	0.4±0.5	-0.71±0.01	-1.17±0.02	0.679±0.007	0.678±0.007	0.005±0.006	-0.033±0.004
6.7	2.4±0.3	0.3±0.5	-0.69±0.01	-1.18±0.02	0.698±0.007	0.697±0.007	0.004±0.006	-0.030±0.004
7.7	2.1±0.3	0.3±0.5	-0.67±0.01	-1.17±0.02	0.712±0.007	0.712±0.007	0.004±0.006	-0.026±0.004
8.7	1.7±0.3	0.1±0.5	-0.64±0.01	-1.17±0.02	0.728±0.007	0.727±0.007	0.002±0.006	-0.022±0.004
9.8	1.5±0.3	0.0±0.5	-0.61±0.01	-1.16±0.02	0.740±0.007	0.740±0.007	0.000±0.006	-0.019±0.004
10.8	1.2±0.3	0.0±0.4	-0.60±0.01	-1.18±0.02	0.761±0.007	0.760±0.007	0.000±0.006	-0.015±0.004
11.8	1.0±0.3	0.0±0.4	-0.58±0.01	-1.17±0.02	0.768±0.007	0.768±0.007	0.000±0.006	-0.013±0.004
12.8	0.8±0.3	0.0±0.4	-0.57±0.01	-1.18±0.02	0.782±0.007	0.782±0.007	0.000±0.006	-0.011±0.004
13.8	0.7±0.3	0.0±0.4	-0.55±0.01	-1.17±0.02	0.790±0.007	0.790±0.007	0.000±0.006	-0.009±0.004
16.4	0.3±0.3	0.1±0.4	-0.50±0.01	-1.18±0.02	0.822±0.007	0.822±0.007	0.001±0.005	-0.004±0.005
18.9	0.1±0.3	0.2±0.4	-0.48±0.01	-1.18±0.02	0.836±0.007	0.836±0.007	0.003±0.005	-0.001±0.005
21.4	-0.1±0.3	0.1±0.3	-0.45±0.01	-1.17±0.02	0.851±0.007	0.851±0.007	0.002±0.005	0.002±0.005
24.0	-0.3±0.3	0.2±0.3	-0.43±0.01	-1.18±0.02	0.865±0.006	0.865±0.006	0.003±0.005	0.005±0.005
26.5	-0.5±0.3	0.2±0.3	-0.40±0.01	-1.18±0.02	0.879±0.006	0.879±0.006	0.003±0.005	0.008±0.005
29.1	-0.6±0.3	0.1±0.3	-0.38±0.01	-1.18±0.02	0.894±0.006	0.894±0.006	0.002±0.005	0.009±0.005
31.6	-0.8±0.3	0.2±0.3	-0.36±0.01	-1.17±0.02	0.902±0.006	0.901±0.006	0.003±0.005	0.012±0.005
34.1	-0.9±0.3	0.2±0.3	-0.34±0.01	-1.18±0.02	0.917±0.006	0.917±0.006	0.002±0.005	0.014±0.005
36.7	-0.9±0.3	0.1±0.3	-0.31±0.01	-1.16±0.02	0.923±0.006	0.922±0.006	0.002±0.005	0.015±0.005
39.2	-1.0±0.3	0.1±0.3	-0.29±0.01	-1.17±0.02	0.940±0.006	0.940±0.006	0.001±0.005	0.016±0.005
44.3	-1.1±0.3	0.1±0.3	-0.25±0.01	-1.18±0.02	0.964±0.006	0.964±0.006	0.002±0.005	0.019±0.005
49.4	-1.1±0.3	0.1±0.3	-0.20±0.01	-1.17±0.02	0.984±0.006	0.984±0.006	0.001±0.004	0.020±0.005
54.5	-1.3±0.3	0.1±0.3	-0.17±0.01	-1.16±0.02	0.995±0.006	0.995±0.006	0.002±0.004	0.022±0.005
59.5	-1.3±0.3	0.1±0.2	-0.14±0.01	-1.18±0.02	1.021±0.006	1.021±0.006	0.001±0.004	0.022±0.006
64.6	-1.3±0.3	0.0±0.2	-0.10±0.01	-1.17±0.02	1.035±0.007	1.035±0.007	0.000±0.004	0.023±0.006
69.7	-1.3±0.3	0.1±0.2	-0.07±0.01	-1.17±0.02	1.050±0.007	1.050±0.007	0.001±0.004	0.024±0.006
74.8	-1.3±0.3	0.1±0.2	-0.04±0.01	-1.17±0.02	1.062±0.007	1.062±0.007	0.001±0.004	0.023±0.006
79.9	-1.2±0.3	0.1±0.2	-0.02±0.01	-1.17±0.02	1.070±0.007	1.070±0.007	0.002±0.004	0.023±0.006
84.9	-1.1±0.3	0.2±0.2	-0.01±0.01	-1.17±0.02	1.076±0.007	1.076±0.007	0.003±0.004	0.021±0.006
90.0	-1.1±0.3	0.1±0.2	0.00±0.01	-1.17±0.02	1.082±0.007	1.082±0.007	0.003±0.004	0.021±0.006
100.2	-1.0±0.3	0.0±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	0.000±0.004	0.018±0.006
110.3	-1.0±0.3	0.0±0.2	0.01±0.01	-1.17±0.02	1.085±0.007	1.085±0.007	-0.001±0.004	0.018±0.006
120.5	-0.9±0.3	0.0±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	0.000±0.004	0.018±0.006
130.7	-0.8±0.3	0.0±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	0.000±0.004	0.016±0.006
140.8	-0.8±0.3	0.0±0.2	0.01±0.01	-1.17±0.02	1.086±0.007	1.086±0.007	0.000±0.004	0.014±0.006

Table B.346 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-51 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.0±0.3	1.7±0.6	-0.76±0.01	-1.16±0.02	0.633±0.007	0.632±0.007	0.019±0.007	-0.044±0.004
4.7	3.5±0.3	0.9±0.6	-0.73±0.01	-1.16±0.02	0.656±0.007	0.654±0.007	0.011±0.007	-0.040±0.004
5.7	3.1±0.3	0.5±0.5	-0.70±0.01	-1.16±0.02	0.678±0.007	0.677±0.007	0.006±0.006	-0.036±0.004
6.7	2.5±0.3	0.3±0.5	-0.67±0.01	-1.16±0.02	0.699±0.007	0.698±0.007	0.004±0.006	-0.031±0.004
7.7	2.2±0.3	0.3±0.5	-0.66±0.01	-1.17±0.02	0.718±0.007	0.717±0.007	0.004±0.006	-0.028±0.004
8.7	1.9±0.3	0.1±0.5	-0.63±0.01	-1.17±0.02	0.736±0.007	0.735±0.007	0.002±0.006	-0.024±0.004
9.8	1.6±0.3	0.1±0.5	-0.61±0.01	-1.16±0.02	0.744±0.007	0.744±0.007	0.001±0.006	-0.021±0.004
10.8	1.3±0.3	0.0±0.4	-0.59±0.01	-1.17±0.02	0.760±0.007	0.760±0.007	0.000±0.006	-0.017±0.004
11.8	1.1±0.3	0.0±0.4	-0.56±0.01	-1.16±0.02	0.771±0.007	0.771±0.007	-0.001±0.006	-0.015±0.004
12.8	0.9±0.3	0.0±0.4	-0.55±0.01	-1.16±0.02	0.782±0.007	0.782±0.007	-0.001±0.006	-0.012±0.004
13.8	0.7±0.3	0.0±0.4	-0.53±0.01	-1.16±0.02	0.796±0.007	0.796±0.007	-0.001±0.005	-0.010±0.004
16.4	0.3±0.3	0.0±0.4	-0.49±0.01	-1.16±0.02	0.820±0.007	0.820±0.007	0.000±0.005	-0.004±0.005
18.9	0.1±0.3	0.1±0.4	-0.46±0.01	-1.17±0.02	0.843±0.006	0.843±0.006	0.001±0.005	-0.001±0.005
21.4	-0.1±0.3	0.1±0.3	-0.43±0.01	-1.16±0.02	0.855±0.006	0.855±0.006	0.001±0.005	0.002±0.005
24.0	-0.3±0.3	0.1±0.3	-0.41±0.01	-1.16±0.02	0.865±0.006	0.865±0.006	0.001±0.005	0.005±0.005
26.5	-0.5±0.3	0.1±0.3	-0.38±0.01	-1.16±0.02	0.882±0.006	0.882±0.006	0.001±0.005	0.008±0.005
29.1	-0.7±0.3	0.1±0.3	-0.37±0.01	-1.16±0.02	0.892±0.006	0.892±0.006	0.001±0.005	0.010±0.005
31.6	-0.8±0.3	0.1±0.3	-0.34±0.01	-1.16±0.02	0.905±0.006	0.905±0.006	0.001±0.005	0.012±0.005
34.1	-0.9±0.3	0.1±0.3	-0.32±0.01	-1.16±0.02	0.917±0.006	0.917±0.006	0.001±0.005	0.014±0.005
36.7	-1.0±0.3	0.1±0.3	-0.30±0.01	-1.16±0.02	0.928±0.006	0.928±0.006	0.001±0.005	0.016±0.005
39.2	-1.1±0.3	0.1±0.3	-0.28±0.01	-1.16±0.02	0.938±0.006	0.938±0.006	0.001±0.005	0.018±0.005
44.3	-1.2±0.3	0.1±0.3	-0.24±0.01	-1.17±0.02	0.964±0.006	0.964±0.006	0.001±0.005	0.020±0.005
49.4	-1.3±0.3	0.0±0.3	-0.21±0.01	-1.17±0.02	0.982±0.006	0.981±0.006	0.000±0.004	0.021±0.005
54.5	-1.3±0.3	0.0±0.3	-0.17±0.01	-1.17±0.02	0.996±0.006	0.996±0.006	-0.001±0.004	0.022±0.005
59.5	-1.3±0.3	0.0±0.2	-0.13±0.01	-1.17±0.02	1.017±0.006	1.016±0.006	-0.001±0.004	0.023±0.006
64.6	-1.3±0.3	-0.1±0.2	-0.09±0.01	-1.15±0.02	1.030±0.006	1.030±0.006	-0.001±0.004	0.023±0.006
69.7	-1.3±0.3	-0.1±0.2	-0.06±0.01	-1.15±0.02	1.044±0.007	1.044±0.007	-0.001±0.004	0.024±0.006
74.8	-1.3±0.3	0.0±0.2	-0.05±0.01	-1.16±0.02	1.055±0.007	1.055±0.007	0.000±0.004	0.023±0.006
79.9	-1.2±0.3	0.0±0.2	-0.02±0.01	-1.16±0.02	1.065±0.007	1.065±0.007	0.000±0.004	0.022±0.006
84.9	-1.2±0.3	0.1±0.2	-0.01±0.01	-1.15±0.02	1.071±0.007	1.070±0.007	0.001±0.004	0.022±0.006
90.0	-1.2±0.3	0.0±0.2	0.00±0.01	-1.16±0.02	1.077±0.007	1.077±0.007	0.001±0.004	0.022±0.006
100.2	-1.0±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	0.001±0.004	0.019±0.006
110.3	-0.9±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.000±0.004	0.018±0.006
120.5	-0.9±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	0.000±0.004	0.018±0.006
130.7	-0.9±0.3	0.1±0.2	0.01±0.01	-1.17±0.02	1.083±0.007	1.082±0.007	0.002±0.004	0.016±0.006
140.8	-0.8±0.3	0.2±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.003±0.004	0.015±0.006

Table B.347 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-44 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.3±0.3	1.9±0.6	-0.75±0.01	-1.15±0.02	0.632±0.007	0.630±0.007	0.021±0.007	-0.047±0.004
4.7	3.6±0.3	1.0±0.6	-0.73±0.01	-1.16±0.02	0.659±0.007	0.657±0.007	0.011±0.007	-0.041±0.004
5.7	3.1±0.3	0.5±0.5	-0.71±0.01	-1.18±0.02	0.683±0.007	0.682±0.007	0.006±0.006	-0.037±0.004
6.7	2.6±0.3	0.3±0.5	-0.67±0.01	-1.16±0.02	0.704±0.007	0.703±0.007	0.004±0.006	-0.032±0.004
7.7	2.2±0.3	0.3±0.5	-0.64±0.01	-1.17±0.02	0.725±0.007	0.725±0.007	0.003±0.006	-0.028±0.004
8.7	1.9±0.3	0.1±0.5	-0.62±0.01	-1.17±0.02	0.740±0.007	0.739±0.007	0.001±0.006	-0.025±0.004
9.8	1.5±0.3	0.0±0.4	-0.59±0.01	-1.16±0.02	0.755±0.007	0.755±0.007	0.000±0.006	-0.020±0.004
10.8	1.3±0.3	0.0±0.4	-0.57±0.01	-1.16±0.02	0.766±0.007	0.766±0.007	-0.001±0.006	-0.017±0.004
11.8	1.0±0.3	-0.1±0.4	-0.55±0.01	-1.16±0.02	0.781±0.007	0.781±0.007	-0.001±0.006	-0.014±0.004
12.8	0.8±0.3	-0.1±0.4	-0.53±0.01	-1.17±0.02	0.795±0.007	0.795±0.007	-0.001±0.006	-0.011±0.004
13.8	0.5±0.3	-0.1±0.4	-0.51±0.01	-1.16±0.02	0.807±0.007	0.807±0.007	-0.001±0.005	-0.008±0.004
16.4	0.3±0.3	0.0±0.4	-0.48±0.01	-1.17±0.02	0.829±0.007	0.829±0.007	0.000±0.005	-0.004±0.005
18.9	-0.1±0.3	0.0±0.3	-0.44±0.01	-1.16±0.02	0.849±0.006	0.849±0.006	0.000±0.005	0.001±0.005
21.4	-0.3±0.3	0.0±0.3	-0.41±0.01	-1.17±0.02	0.867±0.006	0.867±0.006	0.000±0.005	0.004±0.005
24.0	-0.4±0.3	0.0±0.3	-0.39±0.01	-1.16±0.02	0.878±0.006	0.878±0.006	0.000±0.005	0.007±0.005
26.5	-0.6±0.3	0.0±0.3	-0.38±0.01	-1.17±0.02	0.892±0.006	0.892±0.006	-0.001±0.005	0.009±0.005
29.1	-0.7±0.3	0.0±0.3	-0.35±0.01	-1.15±0.02	0.898±0.006	0.898±0.006	-0.001±0.005	0.011±0.005
31.6	-0.9±0.3	-0.1±0.3	-0.34±0.01	-1.18±0.02	0.916±0.006	0.916±0.006	-0.002±0.005	0.014±0.005
34.1	-0.9±0.3	-0.1±0.3	-0.31±0.01	-1.16±0.02	0.921±0.006	0.921±0.006	-0.002±0.005	0.015±0.005
36.7	-1.0±0.3	-0.2±0.3	-0.28±0.01	-1.15±0.02	0.935±0.006	0.935±0.006	-0.003±0.005	0.016±0.005
39.2	-1.1±0.3	-0.2±0.3	-0.27±0.01	-1.16±0.02	0.945±0.006	0.944±0.006	-0.003±0.005	0.018±0.005
44.3	-1.2±0.3	-0.2±0.3	-0.22±0.01	-1.16±0.02	0.967±0.006	0.967±0.006	-0.003±0.005	0.019±0.005
49.4	-1.3±0.3	-0.2±0.3	-0.19±0.01	-1.16±0.02	0.985±0.006	0.985±0.006	-0.003±0.004	0.022±0.005
54.5	-1.3±0.3	-0.2±0.2	-0.15±0.01	-1.15±0.02	1.003±0.006	1.003±0.006	-0.003±0.004	0.022±0.006
59.5	-1.3±0.3	-0.2±0.2	-0.12±0.01	-1.16±0.02	1.020±0.006	1.019±0.006	-0.004±0.004	0.023±0.006
64.6	-1.3±0.3	-0.2±0.2	-0.09±0.01	-1.16±0.02	1.035±0.006	1.035±0.006	-0.004±0.004	0.023±0.006
69.7	-1.3±0.3	-0.2±0.2	-0.06±0.01	-1.16±0.02	1.046±0.007	1.046±0.007	-0.003±0.004	0.023±0.006
74.8	-1.3±0.3	-0.1±0.2	-0.03±0.01	-1.16±0.02	1.059±0.007	1.059±0.007	-0.002±0.004	0.023±0.006
79.9	-1.2±0.3	-0.1±0.2	-0.02±0.01	-1.16±0.02	1.068±0.007	1.068±0.007	-0.001±0.004	0.022±0.006
84.9	-1.2±0.3	-0.1±0.2	0.00±0.01	-1.16±0.02	1.073±0.007	1.073±0.007	-0.001±0.004	0.022±0.006
90.0	-1.1±0.3	-0.1±0.2	0.00±0.01	-1.16±0.02	1.078±0.007	1.077±0.007	-0.002±0.004	0.021±0.006
100.2	-0.9±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	-0.001±0.004	0.018±0.006
110.3	-0.9±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	-0.001±0.004	0.018±0.006
120.5	-0.9±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	-0.001±0.004	0.016±0.006
130.7	-0.8±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.000±0.004	0.014±0.006
140.8	-0.8±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.082±0.007	1.082±0.007	0.001±0.004	0.014±0.006

Table B.348 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-38 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	4.9±0.3	1.8±0.6	-0.76±0.01	-1.16±0.02	0.632±0.007	0.630±0.007	0.020±0.007	-0.053±0.004
4.7	4.2±0.3	0.9±0.6	-0.72±0.01	-1.15±0.02	0.658±0.007	0.656±0.007	0.011±0.007	-0.048±0.004
5.7	3.6±0.3	0.5±0.5	-0.69±0.01	-1.16±0.02	0.681±0.007	0.679±0.007	0.006±0.006	-0.042±0.004
6.7	2.9±0.3	0.3±0.5	-0.66±0.01	-1.16±0.02	0.705±0.007	0.704±0.007	0.004±0.006	-0.036±0.004
7.7	2.4±0.3	0.2±0.5	-0.63±0.01	-1.15±0.02	0.721±0.007	0.720±0.007	0.002±0.006	-0.031±0.004
8.7	2.0±0.3	0.0±0.5	-0.61±0.01	-1.16±0.02	0.742±0.007	0.741±0.007	0.000±0.006	-0.026±0.004
9.8	1.6±0.3	-0.1±0.4	-0.58±0.01	-1.17±0.02	0.762±0.007	0.762±0.007	-0.001±0.006	-0.022±0.004
10.8	1.4±0.3	-0.1±0.4	-0.56±0.01	-1.15±0.02	0.773±0.007	0.773±0.007	-0.001±0.006	-0.018±0.004
11.8	1.1±0.3	-0.1±0.4	-0.54±0.01	-1.15±0.02	0.786±0.007	0.785±0.007	-0.001±0.006	-0.015±0.004
12.8	0.8±0.3	0.0±0.4	-0.52±0.01	-1.16±0.02	0.800±0.007	0.800±0.007	0.000±0.006	-0.011±0.004
13.8	0.6±0.3	-0.1±0.4	-0.50±0.01	-1.16±0.02	0.813±0.007	0.813±0.007	-0.001±0.005	-0.009±0.004
16.4	0.3±0.3	-0.2±0.4	-0.45±0.01	-1.16±0.02	0.838±0.007	0.838±0.007	-0.003±0.005	-0.005±0.005
18.9	0.1±0.3	-0.2±0.3	-0.44±0.01	-1.17±0.02	0.854±0.007	0.854±0.007	-0.003±0.005	-0.002±0.005
21.4	-0.1±0.3	-0.2±0.3	-0.40±0.01	-1.15±0.02	0.864±0.006	0.864±0.006	-0.003±0.005	0.001±0.005
24.0	-0.2±0.3	-0.3±0.3	-0.38±0.01	-1.16±0.02	0.882±0.006	0.882±0.006	-0.004±0.005	0.003±0.005
26.5	-0.4±0.3	-0.3±0.3	-0.36±0.01	-1.15±0.02	0.892±0.006	0.892±0.006	-0.004±0.005	0.006±0.005
29.1	-0.6±0.3	-0.3±0.3	-0.33±0.01	-1.15±0.02	0.904±0.006	0.904±0.006	-0.004±0.005	0.009±0.005
31.6	-0.7±0.3	-0.3±0.3	-0.32±0.01	-1.15±0.02	0.915±0.006	0.915±0.006	-0.004±0.005	0.011±0.005
34.1	-0.7±0.3	-0.3±0.3	-0.30±0.01	-1.16±0.02	0.928±0.006	0.928±0.006	-0.005±0.005	0.012±0.005
36.7	-0.8±0.3	-0.3±0.3	-0.27±0.01	-1.15±0.02	0.936±0.006	0.936±0.006	-0.006±0.005	0.014±0.005
39.2	-0.9±0.3	-0.4±0.3	-0.26±0.01	-1.15±0.02	0.944±0.006	0.944±0.006	-0.006±0.005	0.015±0.005
44.3	-1.0±0.3	-0.4±0.3	-0.22±0.01	-1.15±0.02	0.967±0.006	0.967±0.006	-0.007±0.005	0.017±0.005
49.4	-1.0±0.3	-0.4±0.3	-0.18±0.01	-1.16±0.02	0.986±0.006	0.986±0.006	-0.007±0.004	0.018±0.005
54.5	-1.1±0.3	-0.4±0.3	-0.15±0.01	-1.15±0.02	1.002±0.006	1.001±0.006	-0.007±0.004	0.019±0.006
59.5	-1.1±0.3	-0.3±0.2	-0.11±0.01	-1.15±0.02	1.019±0.006	1.019±0.006	-0.006±0.004	0.019±0.006
64.6	-1.1±0.3	-0.3±0.2	-0.09±0.01	-1.16±0.02	1.035±0.007	1.035±0.007	-0.006±0.004	0.020±0.006
69.7	-1.0±0.3	-0.3±0.2	-0.06±0.01	-1.16±0.02	1.049±0.007	1.049±0.007	-0.006±0.004	0.019±0.006
74.8	-1.0±0.3	-0.3±0.2	-0.04±0.01	-1.16±0.02	1.058±0.007	1.058±0.007	-0.005±0.004	0.019±0.006
79.9	-0.9±0.3	-0.3±0.2	-0.01±0.01	-1.15±0.02	1.067±0.007	1.066±0.007	-0.005±0.004	0.018±0.006
84.9	-0.9±0.3	-0.3±0.2	-0.01±0.01	-1.15±0.02	1.071±0.007	1.070±0.007	-0.005±0.004	0.017±0.006
90.0	-0.9±0.3	-0.3±0.2	0.00±0.01	-1.15±0.02	1.073±0.007	1.073±0.007	-0.005±0.004	0.018±0.006
100.2	-0.8±0.3	-0.2±0.2	0.01±0.01	-1.15±0.02	1.076±0.007	1.076±0.007	-0.004±0.004	0.014±0.006
110.3	-0.7±0.3	-0.1±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	-0.002±0.004	0.013±0.006
120.5	-0.6±0.3	-0.1±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.077±0.007	-0.001±0.004	0.012±0.006
130.7	-0.6±0.3	-0.1±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	-0.001±0.004	0.010±0.006
140.8	-0.6±0.3	0.0±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	0.000±0.004	0.010±0.006

Table B.349 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-32 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.1±0.3	1.8±0.6	-0.76±0.01	-1.15±0.02	0.626±0.007	0.624±0.007	0.020±0.007	-0.056±0.004
4.7	4.4±0.3	0.8±0.6	-0.73±0.01	-1.16±0.02	0.656±0.007	0.654±0.007	0.009±0.007	-0.050±0.004
5.7	3.5±0.3	0.3±0.6	-0.70±0.01	-1.16±0.02	0.677±0.007	0.676±0.007	0.004±0.007	-0.041±0.004
6.7	2.8±0.3	0.2±0.5	-0.67±0.01	-1.16±0.02	0.699±0.007	0.698±0.007	0.002±0.006	-0.034±0.004
7.7	2.2±0.3	-0.1±0.5	-0.64±0.01	-1.16±0.02	0.721±0.007	0.720±0.007	-0.001±0.006	-0.027±0.004
8.7	1.6±0.3	-0.1±0.5	-0.61±0.01	-1.16±0.02	0.744±0.007	0.744±0.007	-0.002±0.006	-0.021±0.004
9.8	1.3±0.3	-0.2±0.4	-0.58±0.01	-1.16±0.02	0.763±0.007	0.763±0.007	-0.003±0.006	-0.017±0.004
10.8	1.0±0.3	-0.4±0.4	-0.56±0.01	-1.17±0.02	0.782±0.007	0.782±0.007	-0.005±0.006	-0.013±0.004
11.8	0.7±0.3	-0.4±0.4	-0.53±0.01	-1.15±0.02	0.789±0.007	0.789±0.007	-0.005±0.006	-0.009±0.004
12.8	0.5±0.3	-0.4±0.4	-0.51±0.01	-1.16±0.02	0.806±0.007	0.806±0.007	-0.006±0.005	-0.007±0.004
13.8	0.3±0.3	-0.4±0.4	-0.49±0.01	-1.17±0.02	0.825±0.007	0.825±0.007	-0.006±0.005	-0.004±0.005
16.4	-0.1±0.3	-0.4±0.4	-0.45±0.01	-1.17±0.02	0.846±0.007	0.846±0.007	-0.005±0.005	0.001±0.005
18.9	-0.2±0.3	-0.3±0.3	-0.42±0.01	-1.16±0.02	0.864±0.006	0.864±0.006	-0.005±0.005	0.003±0.005
21.4	-0.3±0.3	-0.4±0.3	-0.40±0.01	-1.17±0.02	0.879±0.006	0.879±0.006	-0.005±0.005	0.005±0.005
24.0	-0.5±0.3	-0.5±0.3	-0.37±0.01	-1.16±0.02	0.891±0.006	0.891±0.006	-0.008±0.005	0.008±0.005
26.5	-0.7±0.3	-0.5±0.3	-0.35±0.01	-1.16±0.02	0.901±0.006	0.901±0.006	-0.008±0.005	0.011±0.005
29.1	-0.8±0.3	-0.5±0.3	-0.33±0.01	-1.17±0.02	0.914±0.006	0.914±0.006	-0.008±0.005	0.013±0.005
31.6	-0.9±0.3	-0.5±0.3	-0.31±0.01	-1.15±0.02	0.921±0.006	0.921±0.006	-0.009±0.005	0.014±0.005
34.1	-1.0±0.3	-0.5±0.3	-0.29±0.01	-1.16±0.02	0.934±0.006	0.934±0.006	-0.008±0.005	0.016±0.005
36.7	-1.0±0.3	-0.6±0.3	-0.26±0.01	-1.16±0.02	0.947±0.006	0.947±0.006	-0.011±0.005	0.017±0.005
39.2	-1.1±0.3	-0.6±0.3	-0.25±0.01	-1.16±0.02	0.956±0.006	0.956±0.006	-0.011±0.005	0.019±0.005
44.3	-1.2±0.3	-0.7±0.3	-0.22±0.01	-1.16±0.02	0.970±0.006	0.970±0.006	-0.011±0.005	0.020±0.005
49.4	-1.3±0.3	-0.6±0.3	-0.18±0.01	-1.15±0.02	0.989±0.006	0.988±0.006	-0.011±0.004	0.022±0.005
54.5	-1.3±0.3	-0.6±0.3	-0.14±0.01	-1.15±0.02	1.002±0.006	1.002±0.006	-0.011±0.004	0.023±0.006
59.5	-1.3±0.3	-0.6±0.2	-0.11±0.01	-1.15±0.02	1.022±0.006	1.022±0.006	-0.010±0.004	0.024±0.006
64.6	-1.3±0.3	-0.5±0.2	-0.08±0.01	-1.17±0.02	1.041±0.007	1.041±0.007	-0.010±0.004	0.023±0.006
69.7	-1.3±0.3	-0.5±0.2	-0.05±0.01	-1.15±0.02	1.049±0.007	1.049±0.007	-0.010±0.004	0.023±0.006
74.8	-1.2±0.3	-0.5±0.2	-0.04±0.01	-1.16±0.02	1.061±0.007	1.061±0.007	-0.009±0.004	0.022±0.006
79.9	-1.1±0.3	-0.5±0.2	-0.01±0.01	-1.16±0.02	1.070±0.007	1.069±0.007	-0.009±0.004	0.021±0.006
84.9	-1.1±0.3	-0.4±0.2	0.00±0.01	-1.16±0.02	1.074±0.007	1.073±0.007	-0.008±0.004	0.021±0.006
90.0	-1.1±0.3	-0.3±0.2	0.00±0.01	-1.16±0.02	1.076±0.007	1.076±0.007	-0.006±0.004	0.020±0.006
100.2	-0.9±0.3	-0.3±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.079±0.007	-0.005±0.004	0.018±0.006
110.3	-0.9±0.3	-0.3±0.2	0.01±0.01	-1.16±0.02	1.079±0.007	1.079±0.007	-0.005±0.004	0.016±0.006
120.5	-0.8±0.3	-0.2±0.2	0.01±0.01	-1.16±0.02	1.080±0.007	1.080±0.007	-0.004±0.004	0.015±0.006
130.7	-0.8±0.3	0.0±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	-0.001±0.004	0.014±0.006
140.8	-0.8±0.3	-0.1±0.2	0.01±0.01	-1.16±0.02	1.081±0.007	1.081±0.007	-0.001±0.004	0.014±0.006

Table B.350 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-25 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	5.3±0.3	1.7±0.6	-0.74±0.01	-1.14±0.02	0.631±0.007	0.628±0.007	0.019±0.007	-0.058±0.004
4.7	4.5±0.3	0.5±0.6	-0.71±0.01	-1.14±0.02	0.658±0.007	0.656±0.007	0.006±0.007	-0.051±0.004
5.7	3.6±0.3	-0.1±0.5	-0.68±0.01	-1.15±0.02	0.689±0.007	0.688±0.007	-0.001±0.006	-0.043±0.004
6.7	2.8±0.3	-0.4±0.5	-0.64±0.01	-1.15±0.02	0.712±0.007	0.711±0.007	-0.004±0.006	-0.035±0.004
7.7	2.3±0.3	-0.6±0.5	-0.61±0.01	-1.15±0.02	0.735±0.007	0.734±0.007	-0.008±0.006	-0.029±0.004
8.7	1.7±0.3	-0.6±0.4	-0.59±0.01	-1.15±0.02	0.754±0.007	0.753±0.007	-0.008±0.006	-0.022±0.004
9.8	1.3±0.3	-0.8±0.4	-0.55±0.01	-1.16±0.02	0.781±0.007	0.780±0.007	-0.011±0.006	-0.017±0.004
10.8	0.9±0.3	-0.8±0.4	-0.53±0.01	-1.17±0.02	0.799±0.007	0.798±0.007	-0.012±0.005	-0.013±0.004
11.8	0.6±0.3	-0.8±0.4	-0.51±0.01	-1.16±0.02	0.811±0.007	0.811±0.007	-0.011±0.005	-0.009±0.004
12.8	0.4±0.3	-0.8±0.4	-0.48±0.01	-1.16±0.02	0.825±0.007	0.825±0.007	-0.011±0.005	-0.006±0.005
13.8	0.3±0.3	-0.7±0.4	-0.46±0.01	-1.17±0.02	0.839±0.007	0.839±0.007	-0.010±0.005	-0.004±0.005
16.4	0.0±0.3	-0.8±0.3	-0.43±0.01	-1.16±0.02	0.857±0.006	0.857±0.006	-0.012±0.005	0.000±0.005
18.9	-0.2±0.3	-0.8±0.3	-0.39±0.01	-1.16±0.02	0.876±0.006	0.876±0.006	-0.012±0.005	0.003±0.005
21.4	-0.4±0.3	-0.8±0.3	-0.36±0.01	-1.16±0.02	0.890±0.006	0.889±0.006	-0.012±0.005	0.006±0.005
24.0	-0.5±0.3	-0.8±0.3	-0.35±0.01	-1.15±0.02	0.898±0.006	0.898±0.006	-0.013±0.005	0.008±0.005
26.5	-0.7±0.3	-0.8±0.3	-0.33±0.01	-1.16±0.02	0.913±0.006	0.913±0.006	-0.013±0.005	0.010±0.005
29.1	-0.7±0.3	-0.8±0.3	-0.31±0.01	-1.15±0.02	0.919±0.006	0.919±0.006	-0.013±0.005	0.011±0.005
31.6	-0.8±0.3	-0.9±0.3	-0.29±0.01	-1.15±0.02	0.929±0.006	0.929±0.006	-0.014±0.005	0.012±0.005
34.1	-0.9±0.3	-0.9±0.3	-0.28±0.01	-1.16±0.02	0.940±0.006	0.940±0.006	-0.016±0.005	0.014±0.005
36.7	-0.9±0.3	-0.9±0.3	-0.25±0.01	-1.16±0.02	0.951±0.006	0.951±0.006	-0.015±0.005	0.015±0.005
39.2	-1.0±0.3	-0.9±0.3	-0.24±0.01	-1.16±0.02	0.958±0.006	0.958±0.006	-0.015±0.005	0.016±0.005
44.3	-1.0±0.3	-0.9±0.3	-0.20±0.01	-1.15±0.02	0.976±0.006	0.976±0.006	-0.016±0.004	0.017±0.005
49.4	-1.1±0.3	-0.9±0.3	-0.16±0.01	-1.15±0.02	0.994±0.006	0.993±0.006	-0.015±0.004	0.019±0.005
54.5	-1.2±0.3	-0.9±0.2	-0.13±0.01	-1.14±0.02	1.007±0.006	1.007±0.006	-0.016±0.004	0.020±0.006
59.5	-1.1±0.3	-0.9±0.2	-0.10±0.01	-1.15±0.02	1.024±0.006	1.023±0.006	-0.016±0.004	0.020±0.006
64.6	-1.1±0.3	-0.8±0.2	-0.08±0.01	-1.15±0.02	1.038±0.007	1.037±0.007	-0.014±0.004	0.020±0.006
69.7	-1.1±0.3	-0.7±0.2	-0.05±0.01	-1.15±0.02	1.048±0.007	1.047±0.007	-0.014±0.004	0.020±0.006
74.8	-1.1±0.3	-0.7±0.2	-0.02±0.01	-1.15±0.02	1.059±0.007	1.059±0.007	-0.014±0.004	0.019±0.006
79.9	-1.0±0.3	-0.7±0.2	-0.01±0.01	-1.15±0.02	1.068±0.007	1.067±0.007	-0.013±0.004	0.018±0.006
84.9	-0.9±0.3	-0.5±0.2	0.00±0.01	-1.15±0.02	1.070±0.007	1.070±0.007	-0.010±0.004	0.018±0.006
90.0	-0.9±0.3	-0.5±0.2	0.00±0.01	-1.15±0.02	1.074±0.007	1.073±0.007	-0.009±0.004	0.016±0.006
100.2	-0.7±0.3	-0.4±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	-0.007±0.004	0.014±0.006
110.3	-0.7±0.3	-0.3±0.2	0.01±0.01	-1.15±0.02	1.077±0.007	1.077±0.007	-0.005±0.004	0.014±0.006
120.5	-0.6±0.3	-0.2±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	-0.005±0.004	0.012±0.006
130.7	-0.6±0.3	-0.1±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	-0.003±0.004	0.011±0.006
140.8	-0.6±0.3	-0.1±0.2	0.01±0.01	-1.15±0.02	1.078±0.007	1.078±0.007	-0.002±0.004	0.011±0.006

Table B.351 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm,-13 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	3.2±0.3	0.8±0.7	-0.80±0.01	-1.16±0.02	0.592±0.008	0.591±0.008	0.008±0.007	-0.033±0.003
4.7	2.7±0.3	-0.4±0.7	-0.77±0.01	-1.15±0.02	0.618±0.007	0.618±0.007	-0.004±0.007	-0.029±0.003
5.7	2.2±0.3	-0.9±0.6	-0.74±0.01	-1.15±0.02	0.646±0.007	0.646±0.007	-0.010±0.007	-0.024±0.004
6.7	1.6±0.3	-1.4±0.6	-0.69±0.01	-1.14±0.02	0.667±0.007	0.667±0.007	-0.016±0.007	-0.019±0.004
7.7	1.3±0.3	-1.7±0.5	-0.68±0.01	-1.15±0.02	0.691±0.007	0.691±0.007	-0.021±0.006	-0.015±0.004
8.7	0.9±0.3	-1.7±0.5	-0.64±0.01	-1.14±0.02	0.707±0.007	0.707±0.007	-0.021±0.006	-0.011±0.004
9.8	0.6±0.3	-1.9±0.5	-0.63±0.01	-1.17±0.02	0.733±0.007	0.733±0.007	-0.025±0.006	-0.007±0.004
10.8	0.4±0.3	-1.9±0.5	-0.60±0.01	-1.16±0.02	0.744±0.007	0.743±0.007	-0.025±0.006	-0.005±0.004
11.8	0.1±0.3	-2.0±0.4	-0.58±0.01	-1.17±0.02	0.762±0.007	0.761±0.007	-0.027±0.006	-0.002±0.004
12.8	0.0±0.3	-2.1±0.4	-0.55±0.01	-1.14±0.02	0.766±0.007	0.765±0.007	-0.029±0.006	0.001±0.004
13.8	-0.2±0.3	-2.0±0.4	-0.53±0.01	-1.16±0.02	0.793±0.007	0.793±0.007	-0.028±0.006	0.003±0.004
16.4	-0.3±0.3	-2.1±0.4	-0.50±0.01	-1.17±0.02	0.821±0.007	0.821±0.007	-0.030±0.005	0.005±0.005
18.9	-0.6±0.3	-2.1±0.4	-0.46±0.01	-1.16±0.02	0.836±0.007	0.835±0.007	-0.031±0.005	0.008±0.005
21.4	-0.8±0.3	-2.1±0.3	-0.41±0.01	-1.15±0.02	0.862±0.006	0.861±0.007	-0.031±0.005	0.012±0.005
24.0	-0.9±0.3	-2.1±0.3	-0.38±0.01	-1.17±0.02	0.887±0.006	0.886±0.006	-0.033±0.005	0.014±0.005
26.5	-0.9±0.3	-2.1±0.3	-0.36±0.01	-1.17±0.02	0.900±0.006	0.899±0.006	-0.033±0.005	0.015±0.005
29.1	-1.0±0.3	-2.0±0.3	-0.32±0.01	-1.16±0.02	0.912±0.006	0.911±0.006	-0.032±0.005	0.016±0.005
31.6	-1.0±0.3	-2.1±0.3	-0.29±0.01	-1.15±0.02	0.925±0.006	0.925±0.006	-0.034±0.005	0.016±0.005
34.1	-1.0±0.3	-2.2±0.3	-0.28±0.01	-1.15±0.02	0.931±0.006	0.930±0.006	-0.036±0.005	0.016±0.005
36.7	-1.1±0.3	-2.1±0.3	-0.26±0.01	-1.16±0.02	0.948±0.006	0.947±0.006	-0.034±0.005	0.017±0.005
39.2	-1.1±0.3	-2.0±0.3	-0.24±0.01	-1.15±0.02	0.958±0.006	0.958±0.006	-0.034±0.005	0.018±0.005
44.3	-1.1±0.3	-1.9±0.3	-0.20±0.01	-1.17±0.02	0.983±0.006	0.982±0.006	-0.033±0.004	0.019±0.005
49.4	-1.2±0.3	-1.9±0.3	-0.17±0.01	-1.17±0.02	0.997±0.006	0.996±0.006	-0.032±0.004	0.020±0.005
54.5	-1.2±0.3	-1.8±0.2	-0.12±0.01	-1.14±0.02	1.008±0.006	1.007±0.006	-0.032±0.004	0.020±0.006
59.5	-1.1±0.3	-1.7±0.2	-0.10±0.01	-1.15±0.02	1.025±0.006	1.024±0.007	-0.031±0.004	0.019±0.006
64.6	-1.1±0.3	-1.6±0.2	-0.08±0.01	-1.15±0.02	1.033±0.007	1.032±0.007	-0.028±0.004	0.020±0.006
69.7	-1.0±0.3	-1.4±0.2	-0.07±0.01	-1.15±0.02	1.043±0.007	1.042±0.007	-0.026±0.004	0.018±0.006
74.8	-1.0±0.3	-1.2±0.2	-0.05±0.01	-1.16±0.02	1.051±0.007	1.051±0.007	-0.022±0.004	0.018±0.006
79.9	-1.0±0.3	-1.0±0.2	-0.04±0.01	-1.15±0.02	1.052±0.007	1.051±0.007	-0.018±0.004	0.019±0.006
84.9	-1.0±0.3	-0.7±0.2	-0.04±0.01	-1.15±0.02	1.054±0.007	1.053±0.007	-0.014±0.004	0.018±0.006
90.0	-0.9±0.3	-0.7±0.2	-0.04±0.01	-1.15±0.02	1.055±0.007	1.054±0.007	-0.013±0.004	0.017±0.006
100.2	-0.9±0.3	-0.4±0.2	-0.04±0.01	-1.16±0.02	1.057±0.007	1.057±0.007	-0.008±0.004	0.017±0.006
110.3	-0.9±0.3	-0.3±0.2	-0.04±0.01	-1.15±0.02	1.056±0.007	1.056±0.007	-0.005±0.004	0.017±0.006
120.5	-0.9±0.3	-0.2±0.2	-0.04±0.01	-1.16±0.02	1.056±0.007	1.056±0.007	-0.004±0.004	0.017±0.006
130.7	-0.9±0.3	-0.2±0.2	-0.04±0.01	-1.16±0.02	1.056±0.007	1.055±0.007	-0.004±0.004	0.016±0.006
140.8	-0.8±0.3	-0.1±0.2	-0.04±0.01	-1.16±0.02	1.059±0.007	1.059±0.007	-0.001±0.004	0.015±0.006

Table B.352 Five-Hole Probe Data for the 1.5:1 Elliptical Nose Body with Fillet #3 and the Trailing Edge Fillet at (x,z)=(453 mm, 0 mm)

y, mm	BETA, deg	ALPHA, deg	CPT	CPS	SPEED	U	V	W
3.7	0.8±0.3	0.3±0.8	-0.84±0.01	-1.14±0.02	0.551±0.008	0.551±0.008	0.003±0.008	-0.008±0.003
4.7	0.6±0.3	-1.2±0.8	-0.82±0.01	-1.15±0.02	0.570±0.008	0.570±0.008	-0.012±0.008	-0.006±0.003
5.7	0.6±0.3	-2.5±0.7	-0.80±0.01	-1.15±0.02	0.589±0.008	0.589±0.008	-0.025±0.007	-0.006±0.003
6.7	0.6±0.3	-3.1±0.7	-0.78±0.01	-1.15±0.02	0.603±0.008	0.602±0.008	-0.033±0.007	-0.006±0.003
7.7	0.5±0.3	-3.5±0.7	-0.76±0.01	-1.15±0.02	0.621±0.007	0.619±0.008	-0.038±0.007	-0.005±0.003
8.7	0.6±0.3	-4.0±0.6	-0.75±0.01	-1.15±0.02	0.633±0.007	0.632±0.007	-0.044±0.007	-0.006±0.003
9.8	0.5±0.3	-4.5±0.6	-0.74±0.01	-1.15±0.02	0.643±0.007	0.641±0.007	-0.050±0.007	-0.006±0.004
10.8	0.4±0.3	-4.6±0.6	-0.72±0.01	-1.15±0.02	0.659±0.007	0.657±0.007	-0.053±0.007	-0.005±0.004
11.8	0.5±0.3	-4.9±0.6	-0.70±0.01	-1.15±0.02	0.665±0.007	0.663±0.007	-0.057±0.007	-0.005±0.004
12.8	0.5±0.3	-5.0±0.6	-0.69±0.01	-1.16±0.02	0.681±0.007	0.679±0.007	-0.059±0.006	-0.005±0.004
13.8	0.5±0.3	-5.1±0.5	-0.68±0.01	-1.15±0.02	0.687±0.007	0.684±0.007	-0.061±0.006	-0.006±0.004
16.4	0.3±0.3	-5.3±0.5	-0.65±0.01	-1.15±0.02	0.704±0.007	0.701±0.007	-0.065±0.006	-0.003±0.004
18.9	0.3±0.3	-5.3±0.5	-0.63±0.01	-1.15±0.02	0.725±0.007	0.722±0.007	-0.067±0.006	-0.004±0.004
21.4	0.1±0.3	-5.5±0.5	-0.61±0.01	-1.15±0.02	0.737±0.007	0.734±0.007	-0.071±0.006	-0.002±0.004
24.0	0.1±0.3	-5.4±0.5	-0.59±0.01	-1.15±0.02	0.750±0.007	0.746±0.007	-0.070±0.006	-0.002±0.004
26.5	0.2±0.3	-5.3±0.4	-0.57±0.01	-1.15±0.02	0.761±0.007	0.758±0.007	-0.070±0.006	-0.002±0.004
29.1	0.1±0.3	-5.4±0.4	-0.55±0.01	-1.15±0.02	0.769±0.007	0.766±0.007	-0.073±0.006	-0.001±0.004
31.6	0.2±0.3	-5.3±0.4	-0.54±0.01	-1.15±0.02	0.779±0.007	0.775±0.007	-0.072±0.006	-0.003±0.004
34.1	0.2±0.3	-5.2±0.4	-0.52±0.01	-1.14±0.02	0.788±0.007	0.785±0.007	-0.071±0.006	-0.003±0.004
36.7	0.2±0.3	-5.1±0.4	-0.51±0.01	-1.14±0.02	0.797±0.007	0.793±0.007	-0.071±0.006	-0.003±0.004
39.2	0.1±0.3	-4.9±0.4	-0.50±0.01	-1.15±0.02	0.806±0.007	0.803±0.007	-0.070±0.005	-0.001±0.004
44.3	0.0±0.3	-4.9±0.4	-0.47±0.01	-1.14±0.02	0.821±0.007	0.818±0.007	-0.070±0.005	0.000±0.005
49.4	0.0±0.3	-4.6±0.4	-0.45±0.01	-1.14±0.02	0.832±0.007	0.829±0.007	-0.067±0.005	0.000±0.005
54.5	0.1±0.3	-4.3±0.4	-0.44±0.01	-1.14±0.02	0.839±0.007	0.836±0.007	-0.063±0.005	-0.001±0.005
59.5	0.3±0.3	-4.0±0.4	-0.43±0.01	-1.14±0.02	0.844±0.007	0.842±0.007	-0.059±0.005	-0.005±0.005
64.6	0.5±0.3	-3.5±0.4	-0.43±0.01	-1.15±0.02	0.845±0.007	0.844±0.007	-0.052±0.005	-0.007±0.005
69.7	0.5±0.3	-3.1±0.4	-0.44±0.01	-1.15±0.02	0.843±0.007	0.842±0.007	-0.046±0.005	-0.008±0.005
74.8	0.5±0.3	-2.8±0.4	-0.44±0.01	-1.15±0.02	0.840±0.007	0.839±0.007	-0.041±0.005	-0.008±0.005
79.9	0.6±0.3	-2.5±0.4	-0.46±0.01	-1.15±0.02	0.831±0.007	0.831±0.007	-0.036±0.005	-0.009±0.005
84.9	0.6±0.3	-2.2±0.4	-0.47±0.01	-1.15±0.02	0.825±0.007	0.824±0.007	-0.031±0.005	-0.009±0.005
90.0	0.6±0.3	-2.1±0.4	-0.49±0.01	-1.16±0.02	0.818±0.007	0.817±0.007	-0.030±0.005	-0.009±0.005
100.2	0.4±0.3	-1.6±0.4	-0.50±0.01	-1.15±0.02	0.806±0.007	0.806±0.007	-0.023±0.005	-0.005±0.004
110.3	0.1±0.3	-1.4±0.4	-0.51±0.01	-1.15±0.02	0.801±0.007	0.801±0.007	-0.020±0.005	-0.001±0.004
120.5	0.1±0.3	-1.3±0.4	-0.52±0.01	-1.15±0.02	0.797±0.007	0.797±0.007	-0.018±0.006	-0.001±0.004
130.7	0.2±0.3	-1.2±0.4	-0.52±0.01	-1.16±0.02	0.795±0.007	0.795±0.007	-0.017±0.006	-0.002±0.004
140.8	0.2±0.3	-1.2±0.4	-0.52±0.01	-1.16±0.02	0.795±0.007	0.795±0.007	-0.017±0.006	-0.003±0.004

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