


Time	AF1300T Balance			Manual Angle Input
Time(s)	Lift(N)	Drag(N)	Pitching Moment(Nm)	Manual Angle(°)
22.3	-2.83	0.31	0.02	-6
27.1	-2.93	0.33	0.00	-6
33.4	-2.93	0.32	0.00	-6
0	-1.85	0.22	0.00	-4
3.4	-1.88	0.22	0.00	-4
5.8	-1.88	0.22	0.00	-4
677.9	-0.98	0.16	0.00	-2
680.9	-0.97	0.16	0.00	-2
683.6	-0.98	0.16	0.00	-2
0	0.15	0.19	0.02	0
11.1	0.16	0.19	0.02	0
15.1	0.17	0.19	0.02	0
90.5	1.50	0.18	0.03	2
94.8	1.51	0.18	0.03	2
98.9	1.50	0.18	0.03	2
120.6	2.69	0.23	0.11	4
134.6	2.16	0.21	0.03	4
138.9	2.16	0.22	0.03	4
143.8	2.61	0.18	0.05	4
159.4	3.15	0.26	0.03	6
165.4	3.11	0.26	0.02	6
171.8	3.08	0.27	0.02	6
196.3	4.46	0.37	0.05	8
200.7	4.26	0.34	0.03	8
206	4.22	0.33	0.02	8
228.7	5.09	0.41	0.03	10
233.2	5.12	0.42	0.03	10
240.9	5.11	0.68	0.04	10
255.8	6.32	0.59	0.06	12
262	6.13	0.55	0.03	12
270.9	6.15	0.54	0.03	12
291.5	6.77	0.75	0.03	14
299.1	6.77	0.73	0.03	14
331.9	6.94	1.04	0.01	16
337.8	6.94	1.04	0.01	16
345.9	6.91	1.04	0.01	16
402.4	4.92	2.11	-0.07	20
403.9	4.92	2.11	-0.07	20
414.6	4.90	2.09	-0.07	20
470.5	5.28	1.94	-0.06	18

[illegible]

		Aerofoil Characteristics
Ambient Air Density(kg.m-3)	Calculated Windspeed(m.s-1)	Aerofoil Span(mm)
1.23	14.90	300.0
1.23	14.95	300.0
1.23	14.79	300.0
1.23	15.17	300.0
1.23	14.95	300.0
1.23	14.73	300.0
1.23	15.12	300.0
1.23	14.79	300.0
1.23	14.95	300.0
1.23	14.90	300.0
1.23	14.95	300.0
1.23	15.17	300.0
1.23	14.73	300.0
1.23	14.73	300.0
1.23	15.01	300.0
1.23	14.95	300.0
1.23	15.06	300.0
1.23	14.57	300.0
1.23	14.73	300.0
1.23	14.73	300.0
1.23	14.62	300.0
1.23	14.79	300.0
1.23	14.45	300.0
1.23	14.57	300.0
1.23	14.45	300.0
1.23	14.34	300.0
1.23	14.40	300.0
1.23	14.34	300.0
1.23	14.23	300.0
1.23	14.28	300.0
1.23	14.17	300.0
1.23	14.05	300.0
1.23	13.99	300.0
1.23	13.99	300.0
1.23	13.99	300.0
1.23	13.94	300.0
1.23	13.88	300.0
1.23	13.88	300.0
1.23	13.94	300.0
1.23	13.88	300.0

1.23	13.64	300.0
1.23	13.64	300.0
		

Aerofoil Chord Length(mm)	Coefficient of Lift, C_L	Coefficient of Drag, C_D
152.0	-0.45	0.05
152.0	-0.47	0.05
152.0	-0.48	0.05
152.0	-0.29	0.03
152.0	-0.30	0.04
152.0	-0.31	0.04
152.0	-0.15	0.02
152.0	-0.16	0.03
152.0	-0.16	0.03
152.0	0.02	0.03
152.0	0.03	0.03
152.0	0.03	0.03
152.0	0.25	0.03
152.0	0.25	0.03
152.0	0.24	0.03
152.0	0.43	-0.04
152.0	0.34	0.03
152.0	0.36	0.04
152.0	0.43	0.03
152.0	0.52	0.04
152.0	0.52	0.04
152.0	0.50	0.04
152.0	0.76	0.06
152.0	0.72	0.06
152.0	0.72	0.06
152.0	0.88	0.07
152.0	0.88	0.07
152.0	0.89	0.12
152.0	1.11	0.10
152.0	1.07	0.10
152.0	1.09	0.10
152.0	1.22	0.14
152.0	1.23	0.13
152.0	1.26	0.19
152.0	1.26	0.19
152.0	1.27	0.19
152.0	0.91	0.39
152.0	0.91	0.39
152.0	0.90	0.38
152.0	0.98	0.36

[illegible]

Pitching Moment Coefficient, C_M	Lift / Drag Ratio, C_L / C_D
0.02	-9.00
0.00	-9.40
0.00	-9.60
0.00	-9.67
0.00	-7.50
0.00	-7.75
0.00	-7.50
0.00	-5.33
0.00	-5.33
0.02	0.67
0.02	1.00
0.02	1.00
0.03	8.33
0.03	8.33
0.03	8.00
0.12	-10.75
0.03	11.33
0.03	9.00
0.05	14.33
0.03	13.00
0.02	13.00
0.02	12.50
0.06	12.67
0.03	12.00
0.02	12.00
0.03	12.57
0.03	12.57
0.05	7.42
0.07	11.10
0.03	10.70
0.04	10.90
0.04	8.71
0.04	9.46
0.01	6.63
0.01	6.63
0.01	6.68
-0.09	2.33
-0.09	2.33
-0.08	2.37
-0.07	2.72

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