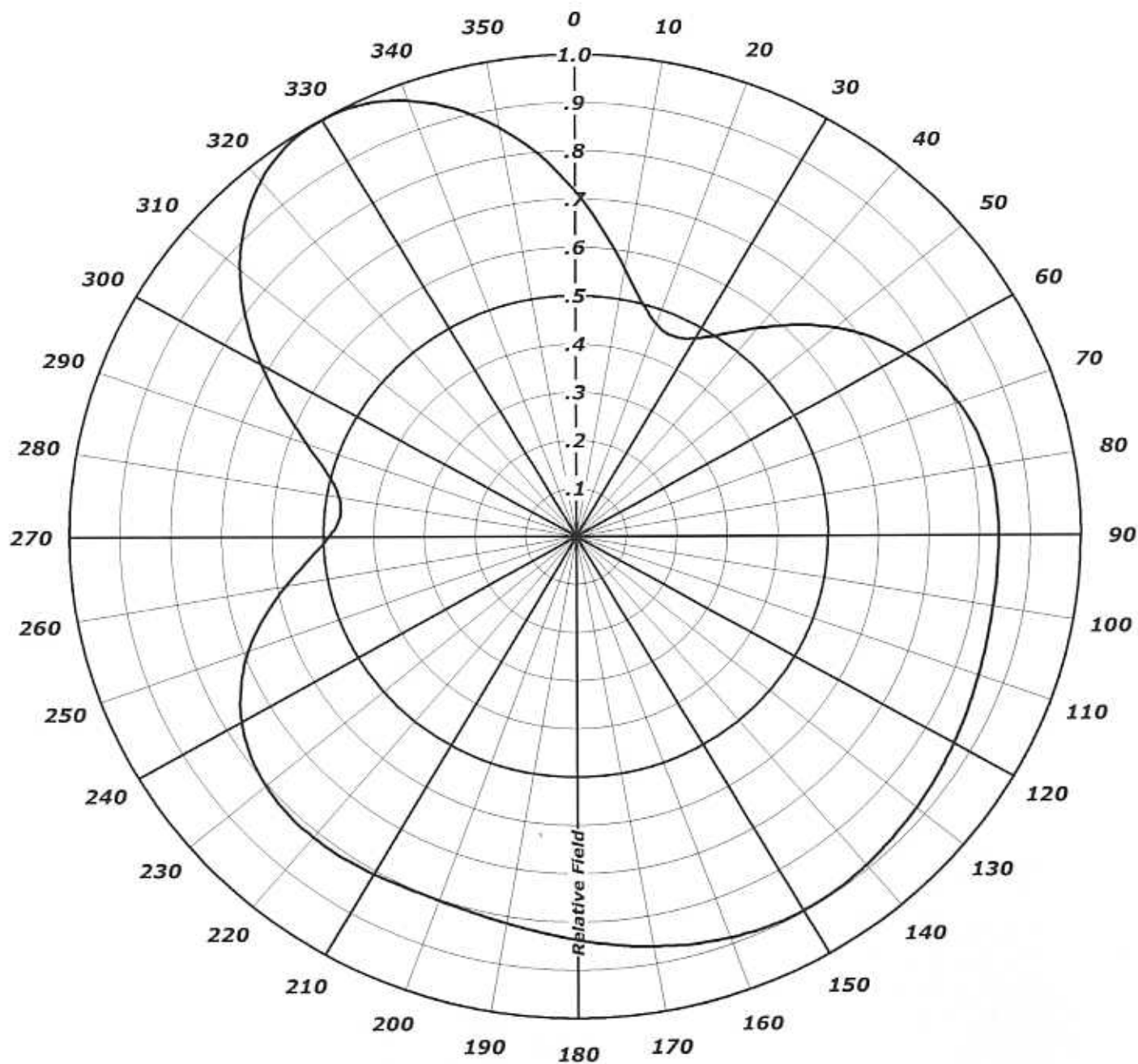


**ANDREW**  
**AZIMUTH PATTERN**

Type: CH2324AZ-H-BID-SX

	Numeric	dBd
Directivity:	<u>1.67</u>	<u>( 2.23 )</u>
Peak(s) At:		
Polarization:	<u>Horizontal</u>	
Channel:	<u>23 (Digital) / 24 (Analog)</u>	
Location:	<u>Moline, IL</u>	



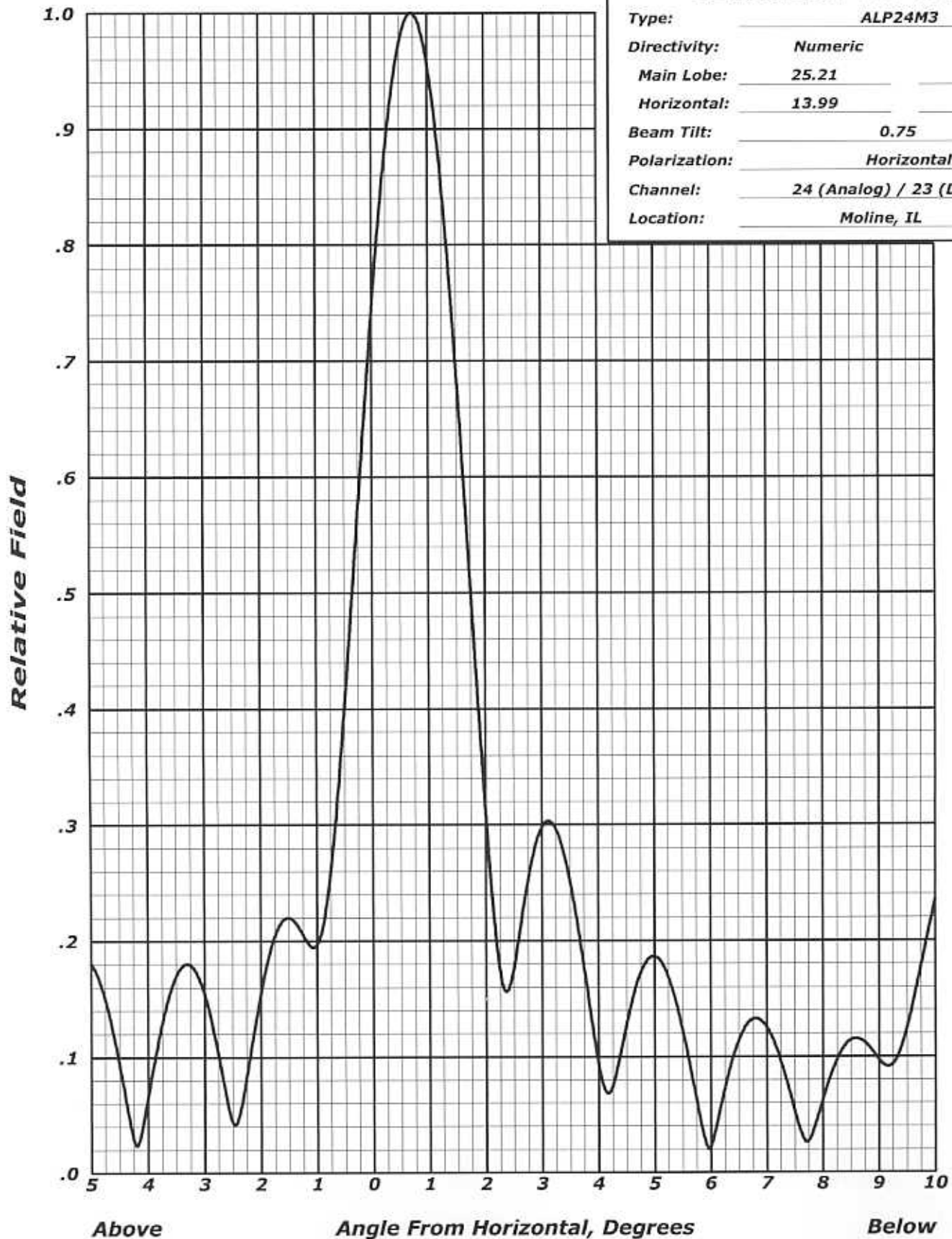


**TABULATED DATA FOR AZIMUTH PATTERN**  
**TYPE : CH2324AZ-H-BID-SX**

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
0	0.717	-2.89	110	0.847	-1.44	220	0.813	-1.80	330	1.000	0.00
2	0.685	-3.28	112	0.850	-1.41	222	0.813	-1.80	332	0.999	-0.01
4	0.653	-3.70	114	0.853	-1.38	224	0.812	-1.81	334	0.994	-0.05
6	0.623	-4.11	116	0.856	-1.35	226	0.810	-1.83	336	0.987	-0.11
8	0.593	-4.54	118	0.859	-1.32	228	0.807	-1.86	338	0.977	-0.20
10	0.565	-4.96	120	0.862	-1.29	230	0.803	-1.91	340	0.964	-0.32
12	0.539	-5.37	122	0.865	-1.26	232	0.798	-1.96	342	0.948	-0.47
14	0.517	-5.74	124	0.869	-1.22	234	0.792	-2.03	344	0.930	-0.63
16	0.496	-6.08	126	0.872	-1.19	236	0.784	-2.11	346	0.910	-0.82
18	0.480	-6.37	128	0.875	-1.16	238	0.776	-2.20	348	0.887	-1.04
20	0.469	-6.57	130	0.878	-1.13	240	0.765	-2.33	350	0.862	-1.29
22	0.461	-6.72	132	0.881	-1.10	242	0.754	-2.46	352	0.836	-1.55
24	0.458	-6.78	134	0.883	-1.08	244	0.740	-2.62	354	0.808	-1.85
26	0.460	-6.74	136	0.886	-1.05	246	0.725	-2.80	356	0.779	-2.17
28	0.465	-6.64	138	0.889	-1.02	248	0.709	-2.99	358	0.748	-2.53
30	0.475	-6.46	140	0.891	-1.00	250	0.690	-3.22	360	0.717	-2.89
32	0.488	-6.22	142	0.893	-0.98	252	0.671	-3.46			
34	0.505	-5.94	144	0.895	-0.96	254	0.650	-3.74			
36	0.523	-5.64	146	0.896	-0.95	256	0.628	-4.04			
38	0.543	-5.31	148	0.896	-0.95	258	0.606	-4.35			
40	0.565	-4.96	150	0.896	-0.95	260	0.584	-4.67			
42	0.587	-4.63	152	0.895	-0.96	262	0.562	-5.01			
44	0.609	-4.31	154	0.894	-0.97	264	0.541	-5.34			
46	0.631	-4.00	156	0.892	-0.99	266	0.522	-5.65			
48	0.652	-3.71	158	0.889	-1.02	268	0.504	-5.96			
50	0.673	-3.43	160	0.886	-1.05	270	0.489	-6.21			
52	0.692	-3.19	162	0.882	-1.09	272	0.478	-6.40			
54	0.711	-2.97	164	0.878	-1.13	274	0.471	-6.53			
56	0.727	-2.77	166	0.874	-1.17	276	0.468	-6.59			
58	0.742	-2.60	168	0.869	-1.22	278	0.469	-6.57			
60	0.756	-2.43	170	0.864	-1.27	280	0.475	-6.46			
62	0.769	-2.28	172	0.859	-1.32	282	0.485	-6.28			
64	0.780	-2.16	174	0.853	-1.38	284	0.501	-6.01			
66	0.790	-2.05	176	0.848	-1.43	286	0.519	-5.70			
68	0.799	-1.95	178	0.843	-1.48	288	0.541	-5.34			
70	0.807	-1.86	180	0.837	-1.54	290	0.566	-4.95			
72	0.814	-1.79	182	0.832	-1.60	292	0.594	-4.52			
74	0.820	-1.72	184	0.827	-1.65	294	0.623	-4.11			
76	0.825	-1.67	186	0.822	-1.70	296	0.654	-3.68			
78	0.829	-1.63	188	0.818	-1.74	298	0.685	-3.28			
80	0.832	-1.60	190	0.814	-1.79	300	0.718	-2.88			
82	0.834	-1.57	192	0.810	-1.83	302	0.749	-2.51			
84	0.836	-1.55	194	0.807	-1.86	304	0.780	-2.16			
86	0.837	-1.54	196	0.805	-1.88	306	0.810	-1.83			
88	0.837	-1.54	198	0.803	-1.91	308	0.838	-1.53			
90	0.837	-1.54	200	0.802	-1.92	310	0.864	-1.27			
92	0.837	-1.54	202	0.802	-1.92	312	0.889	-1.02			
94	0.837	-1.54	204	0.803	-1.91	314	0.912	-0.80			
96	0.837	-1.54	206	0.803	-1.91	316	0.932	-0.61			
98	0.838	-1.53	208	0.805	-1.88	318	0.950	-0.45			
100	0.838	-1.53	210	0.807	-1.86	320	0.965	-0.31			
102	0.840	-1.51	212	0.808	-1.85	322	0.978	-0.19			
104	0.841	-1.50	214	0.810	-1.83	324	0.988	-0.11			
106	0.843	-1.48	216	0.812	-1.81	326	0.995	-0.04			
108	0.845	-1.46	218	0.813	-1.80	328	0.999	-0.01			

**ANDREW**  
**ELEVATION PATTERN**

Type:	ALP24M3	
Directivity:	Numeric	dBd
Main Lobe:	25.21	(14.02)
Horizontal:	13.99	(11.46)
Beam Tilt:	0.75	
Polarization:	Horizontal	
Channel:	24 (Analog) / 23 (Digital)	
Location:	Moline, IL	





**TABULATED DATA FOR ELEVATION PATTERN**  
**TYPE : ALP24M3**

Angle Field dB -5 To 10 In 0.25 Increments	Angle Field dB 10 To 90 In 0.5 Increments	Angle Field dB	Angle Field dB
-5.00 0.180 -14.88	8.75 0.112 -19.04	35.00 0.026 -31.69	62.50 0.215 -13.36
-4.75 0.149 -16.52	9.00 0.097 -20.25	35.50 0.047 -26.49	63.00 0.249 -12.08
-4.50 0.093 -20.66	9.25 0.094 -20.56	36.00 0.056 -25.04	63.50 0.270 -11.36
-4.25 0.028 -30.92	9.50 0.125 -18.04	36.50 0.042 -27.45	64.00 0.277 -11.15
-4.00 0.066 -23.66	9.75 0.179 -14.92	37.00 0.018 -34.95	64.50 0.269 -11.41
-3.75 0.129 -17.80	10.00 0.235 -12.56	37.50 0.025 -32.04	65.00 0.247 -12.14
-3.50 0.170 -15.40	10.50 0.306 -10.28	38.00 0.042 -27.61	65.50 0.214 -13.38
-3.25 0.179 -14.93	11.00 0.293 -10.67	38.50 0.041 -27.72	66.00 0.174 -15.19
-3.00 0.154 -16.22	11.50 0.208 -13.63	39.00 0.024 -32.48	66.50 0.130 -17.69
-2.75 0.101 -19.94	12.00 0.101 -19.91	39.50 0.006 -44.56	67.00 0.089 -21.05
-2.50 0.044 -27.19	12.50 0.028 -30.98	40.00 0.026 -31.70	67.50 0.055 -25.12
-2.25 0.084 -21.54	13.00 0.030 -30.35	40.50 0.036 -28.91	68.00 0.044 -27.23
-2.00 0.155 -16.22	13.50 0.024 -32.41	41.00 0.030 -30.47	68.50 0.054 -25.33
-1.75 0.204 -13.80	14.00 0.007 -42.68	41.50 0.013 -37.80	69.00 0.069 -23.23
-1.50 0.220 -13.15	14.50 0.001 -60.00	42.00 0.014 -37.21	69.50 0.079 -22.05
-1.25 0.205 -13.75	15.00 0.007 -43.04	42.50 0.029 -30.79	70.00 0.082 -21.68
-1.00 0.197 -14.11	15.50 0.015 -36.45	43.00 0.033 -29.66	70.50 0.080 -21.98
-0.75 0.262 -11.65	16.00 0.011 -39.13	43.50 0.027 -31.27	71.00 0.072 -22.90
-0.50 0.402 -7.91	16.50 0.008 -41.75	44.00 0.031 -30.31	71.50 0.060 -24.45
-0.25 0.575 -4.80	17.00 0.027 -31.34	44.50 0.050 -25.96	72.00 0.046 -26.70
0.00 0.745 -2.56	17.50 0.030 -30.33	45.00 0.070 -23.12	72.50 0.032 -29.80
0.25 0.885 -1.06	18.00 0.012 -38.24	45.50 0.079 -22.06	73.00 0.021 -33.55
0.50 0.974 -0.23	18.50 0.026 -31.68	46.00 0.075 -22.55	73.50 0.017 -35.28
0.75 1.000 -0.00	19.00 0.048 -26.33	46.50 0.059 -24.54	74.00 0.022 -33.11
1.00 0.956 -0.39	19.50 0.046 -26.69	47.00 0.039 -28.26	74.50 0.029 -30.67
1.25 0.848 -1.43	20.00 0.068 -23.39	47.50 0.019 -34.36	75.00 0.035 -29.03
1.50 0.690 -3.23	20.50 0.143 -16.92	48.00 0.006 -44.63	75.50 0.039 -28.07
1.75 0.501 -6.00	21.00 0.215 -13.34	48.50 0.001 -60.00	76.00 0.041 -27.65
2.00 0.311 -10.13	21.50 0.246 -12.17	49.00 0.003 -50.93	76.50 0.041 -27.64
2.25 0.173 -15.22	22.00 0.219 -13.19	49.50 0.009 -41.39	77.00 0.040 -28.00
2.50 0.178 -14.99	22.50 0.145 -16.78	50.00 0.013 -37.57	77.50 0.037 -28.67
2.75 0.252 -11.97	23.00 0.060 -24.38	50.50 0.014 -37.29	78.00 0.033 -29.66
3.00 0.298 -10.52	23.50 0.045 -26.98	51.00 0.009 -40.76	78.50 0.028 -30.95
3.25 0.296 -10.57	24.00 0.068 -23.38	51.50 0.007 -42.82	79.00 0.023 -32.58
3.50 0.251 -12.02	24.50 0.057 -24.91	52.00 0.016 -35.75	79.50 0.019 -34.60
3.75 0.175 -15.14	25.00 0.025 -32.11	52.50 0.025 -32.11	80.00 0.014 -37.11
4.00 0.094 -20.54	25.50 0.019 -34.22	53.00 0.028 -31.17	80.50 0.010 -40.28
4.25 0.074 -22.56	26.00 0.033 -29.59	53.50 0.023 -32.79	81.00 0.006 -44.37
4.50 0.128 -17.85	26.50 0.028 -31.06	54.00 0.012 -38.75	81.50 0.004 -49.02
4.75 0.172 -15.28	27.00 0.011 -39.49	54.50 0.007 -43.20	82.00 0.003 -49.65
5.00 0.186 -14.60	27.50 0.007 -42.59	55.00 0.022 -33.14	82.50 0.005 -46.60
5.25 0.168 -15.49	28.00 0.014 -36.93	55.50 0.034 -29.43	83.00 0.006 -44.21
5.50 0.123 -18.21	28.50 0.011 -39.31	56.00 0.038 -28.44	83.50 0.007 -42.71
5.75 0.062 -24.16	29.00 0.003 -49.49	56.50 0.033 -29.71	84.00 0.008 -41.83
6.00 0.022 -33.01	29.50 0.002 -54.97	57.00 0.020 -34.13	84.50 0.009 -41.39
6.25 0.072 -22.81	30.00 0.001 -60.00	57.50 0.010 -39.96	85.00 0.009 -41.31
6.50 0.114 -18.87	30.50 0.004 -47.57	58.00 0.026 -31.64	85.50 0.008 -41.52
6.75 0.132 -17.57	31.00 0.008 -42.19	58.50 0.043 -27.26	86.00 0.008 -41.99
7.00 0.125 -18.05	31.50 0.022 -33.12	59.00 0.053 -25.44	86.50 0.007 -42.72
7.25 0.096 -20.38	32.00 0.050 -25.96	59.50 0.054 -25.28	87.00 0.007 -43.72
7.50 0.053 -25.58	32.50 0.083 -21.65	60.00 0.050 -25.96	87.50 0.006 -45.05
7.75 0.027 -31.30	33.00 0.105 -19.54	60.50 0.056 -25.00	88.00 0.005 -46.80
8.00 0.063 -24.06	33.50 0.107 -19.41	61.00 0.084 -21.52	88.50 0.003 -49.15
8.25 0.097 -20.25	34.00 0.084 -21.47	61.50 0.126 -18.00	89.00 0.002 -52.58
8.50 0.114 -18.84	34.50 0.046 -26.72	62.00 0.172 -15.29	89.50 0.001 -58.55