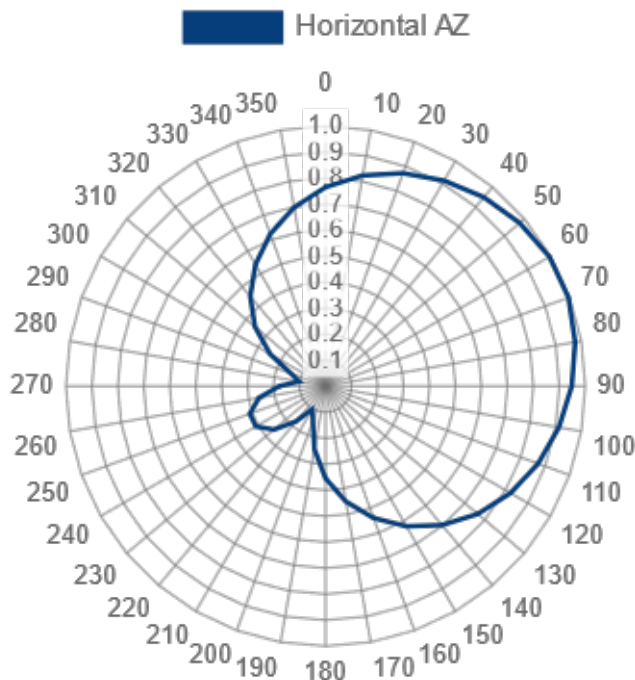


## Azimuth Pattern

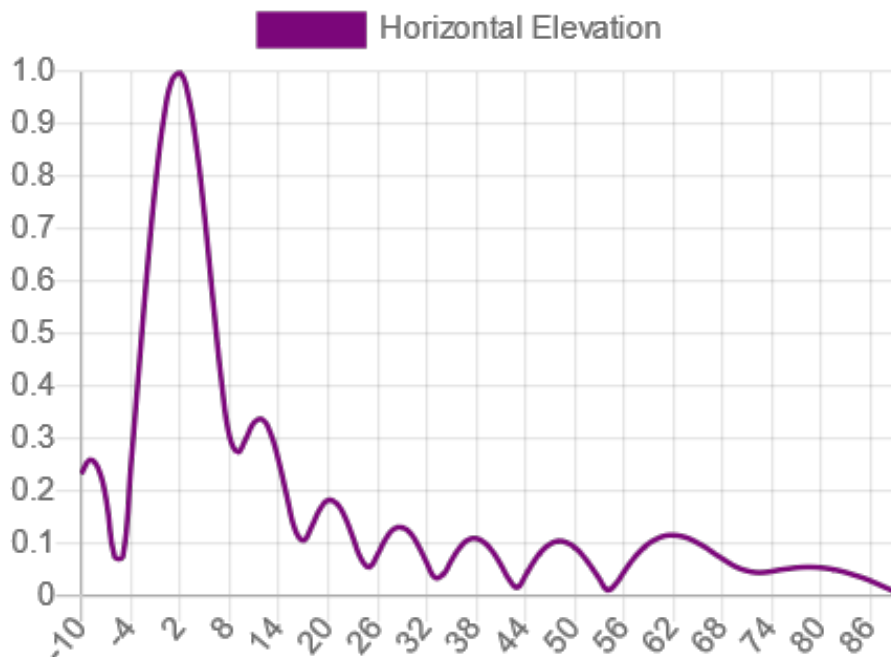
Type:	AL-M	Polarization:	Horizontal
Directivity:	2.40 numeric (3.80 dB)	Frequency:	27 (ATSC)
Peak(s) at:		Location:	
Note: Pattern shape and directivity may vary with channel and mounting configuration.			



Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
0	0.765	-2.32	61	0.996	-0.04	122	0.812	-1.81	183	0.324	-9.8	244	0.317	-9.97	305	0.303	-10.38
1	0.772	-2.25	62	0.998	-0.02	123	0.806	-1.87	184	0.313	-10.09	245	0.317	-9.97	306	0.313	-10.09
2	0.777	-2.19	63	0.998	-0.02	124	0.800	-1.94	185	0.303	-10.38	246	0.317	-9.97	307	0.324	-9.8
3	0.784	-2.11	64	0.998	-0.02	125	0.795	-1.99	186	0.291	-10.71	247	0.316	-10	308	0.334	-9.52
4	0.789	-2.05	65	1.000	0	126	0.789	-2.05	187	0.279	-11.07	248	0.315	-10.04	309	0.344	-9.26
5	0.795	-1.99	66	0.998	-0.02	127	0.784	-2.11	188	0.269	-11.4	249	0.313	-10.1	310	0.355	-9
6	0.800	-1.94	67	0.998	-0.02	128	0.777	-2.19	189	0.257	-11.82	250	0.310	-10.17	311	0.366	-8.74
7	0.806	-1.87	68	0.998	-0.02	129	0.772	-2.25	190	0.246	-12.17	251	0.307	-10.26	312	0.375	-8.52
8	0.812	-1.81	69	0.996	-0.04	130	0.765	-2.32	191	0.236	-12.53	252	0.303	-10.36	313	0.385	-8.28
9	0.817	-1.75	70	0.996	-0.04	131	0.758	-2.41	192	0.224	-13	253	0.299	-10.47	314	0.395	-8.07
10	0.823	-1.69	71	0.993	-0.06	132	0.752	-2.47	193	0.213	-13.44	254	0.294	-10.62	315	0.405	-7.86
11	0.828	-1.64	72	0.994	-0.05	133	0.746	-2.54	194	0.202	-13.88	255	0.290	-10.74	316	0.415	-7.65
12	0.834	-1.58	73	0.989	-0.09	134	0.740	-2.62	195	0.192	-14.34	256	0.285	-10.89	317	0.425	-7.44
13	0.838	-1.53	74	0.989	-0.09	135	0.732	-2.7	196	0.181	-14.86	257	0.280	-11.06	318	0.434	-7.25
14	0.842	-1.49	75	0.987	-0.12	136	0.726	-2.79	197	0.170	-15.41	258	0.274	-11.25	319	0.443	-7.08
15	0.849	-1.42	76	0.988	-0.11	137	0.720	-2.86	198	0.160	-15.92	259	0.267	-11.46	320	0.451	-6.92
16	0.854	-1.37	77	0.983	-0.15	138	0.712	-2.95	199	0.150	-16.47	260	0.261	-11.68	321	0.461	-6.72
17	0.858	-1.33	78	0.982	-0.15	139	0.705	-3.03	200	0.142	-16.98	261	0.254	-11.91	322	0.469	-6.57
18	0.862	-1.29	79	0.979	-0.18	140	0.698	-3.12	201	0.133	-17.53	262	0.246	-12.17	323	0.480	-6.38
19	0.867	-1.24	80	0.976	-0.21	141	0.691	-3.21	202	0.124	-18.12	263	0.238	-12.45	324	0.488	-6.23
20	0.872	-1.19	81	0.975	-0.22	142	0.684	-3.3	203	0.117	-18.65	264	0.230	-12.75	325	0.496	-6.08
21	0.875	-1.16	82	0.971	-0.25	143	0.676	-3.4	204	0.111	-19.11	265	0.222	-13.09	326	0.506	-5.91
22	0.882	-1.1	83	0.968	-0.28	144	0.669	-3.49	205	0.106	-19.51	266	0.213	-13.44	327	0.516	-5.75
23	0.884	-1.07	84	0.967	-0.29	145	0.660	-3.61	206	0.102	-19.81	267	0.204	-13.8	328	0.523	-5.62
24	0.890	-1.01	85	0.962	-0.34	146	0.653	-3.7	207	0.100	-20.02	268	0.196	-14.15	329	0.532	-5.47
25	0.893	-0.99	86	0.962	-0.34	147	0.646	-3.8	208	0.099	-20.07	269	0.187	-14.57	330	0.540	-5.35
26	0.898	-0.93	87	0.958	-0.37	148	0.638	-3.9	209	0.101	-19.95	270	0.178	-15.01	331	0.549	-5.21
27	0.903	-0.88	88	0.953	-0.42	149	0.630	-4.01	210	0.103	-19.74	271	0.169	-15.46	332	0.558	-5.07
28	0.905	-0.87	89	0.950	-0.44	150	0.623	-4.11	211	0.107	-19.38	272	0.159	-15.98	333	0.566	-4.94
29	0.911	-0.81	90	0.949	-0.46	151	0.614	-4.23	212	0.112	-19	273	0.150	-16.46	334	0.575	-4.81
30	0.913	-0.79	91	0.944	-0.5	152	0.607	-4.34	213	0.119	-18.48	274	0.142	-16.97	335	0.582	-4.7
31	0.915	-0.77	92	0.942	-0.52	153	0.599	-4.46	214	0.126	-17.99	275	0.134	-17.46	336	0.591	-4.56
32	0.920	-0.72	93	0.940	-0.54	154	0.591	-4.56	215	0.134	-17.46	276	0.126	-17.99	337	0.599	-4.46
33	0.923	-0.69	94	0.936	-0.58	155	0.582	-4.7	216	0.142	-16.97	277	0.119	-18.48	338	0.607	-4.34
34	0.927	-0.66	95	0.931	-0.62	156	0.575	-4.81	217	0.150	-16.46	278	0.112	-19	339	0.614	-4.23
35	0.931	-0.62	96	0.927	-0.66	157	0.566	-4.94	218	0.159	-15.98	279	0.107	-19.38	340	0.623	-4.11
36	0.936	-0.58	97	0.923	-0.69	158	0.558	-5.07	219	0.169	-15.46	280	0.103	-19.74	341	0.630	-4.01
37	0.940	-0.54	98	0.920	-0.72	159	0.549	-5.21	220	0.178	-15.01	281	0.101	-19.95	342	0.638	-3.9
38	0.942	-0.52	99	0.915	-0.77	160	0.540	-5.35	221	0.187	-14.57	282	0.099	-20.07	343	0.646	-3.8
39	0.944	-0.5	100	0.913	-0.79	161	0.532	-5.47	222	0.196	-14.15	283	0.100	-20.02	344	0.653	-3.7
40	0.949	-0.46	101	0.911	-0.81	162	0.523	-5.62	223	0.204	-13.8	284	0.102	-19.81	345	0.660	-3.61
41	0.950	-0.44	102	0.905	-0.87	163	0.516	-5.75	224	0.213	-13.44	285	0.106	-19.51	346	0.669	-3.49
42	0.953	-0.42	103	0.903	-0.88	164	0.506	-5.91	225	0.222	-13.09	286	0.111	-19.11	347	0.676	-3.4
43	0.958	-0.37	104	0.898	-0.93	165	0.496	-6.08	226	0.230	-12.75	287	0.117	-18.65	348	0.684	-3.3
44	0.962	-0.34	105	0.893	-0.99	166	0.488	-6.23	227	0.238	-12.45	288	0.124	-18.12	349	0.691	-3.21
45	0.962	-0.34	106	0.890	-1.01	167	0.480	-6.38	228	0.246	-12.17	289	0.133	-17.53	350	0.698	-3.12
46	0.967	-0.29	107	0.884	-1.07	168	0.469	-6.57	229	0.254	-11.91	290	0.142	-16.98	351	0.705	-3.03
47	0.968	-0.28	108	0.882	-1.1	169	0.461	-6.72	230	0.261	-11.68	291	0.150	-16.47	352	0.712	-2.95
48	0.971	-0.25	109	0.875	-1.16	170	0.451	-6.92	231	0.267	-11.46	292	0.160	-15.92	353	0.720	-2.86
49	0.975	-0.22	110	0.872	-1.19	171	0.443	-7.08	232	0.274	-11.25	293	0.170	-15.41	354	0.726	-2.79
50	0.976	-0.21	111	0.867	-1.24	172	0.434	-7.25	233	0.280	-11.06	294	0.181	-14.86	355	0.732	-2.7
51	0.979	-0.18	112	0.862	-1.29	173	0.425	-7.44	234	0.285	-10.89	295	0.192	-14.34	356	0.740	-2.62
52	0.982	-0.15	113	0.858	-1.33	174	0.415	-7.65	235	0.290	-10.74	296	0.202	-13.88	357	0.746	-2.54
53	0.983	-0.15	114	0.854	-1.37	175	0.405	-7.86	236	0.294	-10.62	297	0.213	-13.44	358	0.752	-2.47
54	0.988	-0.11	115	0.849	-1.42	176	0.395	-8.07	237	0.299	-10.47	298	0.224	-13	359	0.758	-2.41
55	0.987	-0.12	116	0.842	-1.49	177	0.385	-8.28	238	0.303	-10.36	299	0.236	-12.53	360	0.765	-2.32
56	0.989	-0.09	117	0.838	-1.53	178	0.375	-8.52	239	0.307	-10.26	300	0.246	-12.17			
57	0.989	-0.09	118	0.834	-1.58	179	0.366	-8.74	240	0.310	-10.17	301	0.257	-11.82			
58	0.994	-0.05	119	0.828	-1.64	180	0.355	-9	241	0.313	-10.1	302	0.269	-11.4			
59	0.993	-0.06	120	0.823	-1.69	181	0.344	-9.26	242	0.315	-10.04	303	0.279	-11.07			
60	0.996	-0.04	121	0.817	-1.75	182	0.334	-9.52	243	0.316	-10	304	0.291	-10.71			

## Elevation Pattern

Type:	AL8L7		Polarization:	Horizontal	
Directivity:			Frequency:	27 (ATSC)	
Main Lobe:	8.25 numeric	(9.16 dB)	Location:		
Horizontal:	6.88 numeric	(8.37 dB)	Beam Tilt:	1.75 degrees	



Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-10.00	0.234	-12.62	6.75	0.445	-7.03	23.50	0.090	-20.92	40.25	0.078	-22.16	57.00	0.067	-23.48	73.75	0.046	-26.74
-9.75	0.243	-12.29	7.00	0.410	-7.74	23.75	0.080	-21.94	40.50	0.072	-22.85	57.25	0.071	-22.97	74.00	0.046	-26.74
-9.50	0.251	-12.01	7.25	0.378	-8.45	24.00	0.070	-23.1	40.75	0.066	-23.61	57.50	0.076	-22.38	74.25	0.047	-26.56
-9.25	0.256	-11.84	7.50	0.349	-9.14	24.25	0.062	-24.15	41.00	0.059	-24.58	57.75	0.080	-21.94	74.50	0.047	-26.56
-9.00	0.259	-11.73	7.75	0.324	-9.79	24.50	0.057	-24.88	41.25	0.052	-25.68	58.00	0.085	-21.41	74.75	0.048	-26.38
-8.75	0.259	-11.73	8.00	0.303	-10.37	24.75	0.054	-25.35	41.50	0.045	-26.94	58.25	0.088	-21.11	75.00	0.049	-26.2
-8.50	0.256	-11.84	8.25	0.288	-10.81	25.00	0.054	-25.35	41.75	0.038	-28.4	58.50	0.092	-20.72	75.25	0.049	-26.2
-8.25	0.251	-12.01	8.50	0.279	-11.09	25.25	0.058	-24.73	42.00	0.031	-30.17	58.75	0.095	-20.45	75.50	0.050	-26.02
-8.00	0.243	-12.29	8.75	0.274	-11.24	25.50	0.064	-23.88	42.25	0.024	-32.4	59.00	0.099	-20.09	75.75	0.051	-25.85
-7.75	0.232	-12.69	9.00	0.274	-11.24	25.75	0.071	-22.97	42.50	0.018	-34.89	59.25	0.101	-19.91	76.00	0.051	-25.85
-7.50	0.218	-13.23	9.25	0.277	-11.15	26.00	0.078	-22.16	42.75	0.015	-36.48	59.50	0.104	-19.66	76.25	0.052	-25.68
-7.25	0.201	-13.94	9.50	0.284	-10.93	26.25	0.086	-21.31	43.00	0.015	-36.48	59.75	0.106	-19.49	76.50	0.052	-25.68
-7.00	0.181	-14.85	9.75	0.292	-10.69	26.50	0.094	-20.54	43.25	0.019	-34.42	60.00	0.108	-19.33	76.75	0.053	-25.51
-6.75	0.158	-16.03	10.00	0.300	-10.46	26.75	0.101	-19.91	43.50	0.025	-32.04	60.25	0.110	-19.17	77.00	0.053	-25.51
-6.50	0.133	-17.52	10.25	0.309	-10.2	27.00	0.108	-19.33	43.75	0.032	-29.9	60.50	0.112	-19.02	77.25	0.054	-25.35
-6.25	0.105	-19.58	10.50	0.318	-9.95	27.25	0.114	-18.86	44.00	0.038	-28.4	60.75	0.113	-18.94	77.50	0.054	-25.35
-6.00	0.074	-22.62	10.75	0.325	-9.76	27.50	0.119	-18.49	44.25	0.045	-26.94	61.00	0.114	-18.86	77.75	0.054	-25.35
-5.75	0.040	-27.96	11.00	0.331	-9.6	27.75	0.123	-18.2	44.50	0.052	-25.68	61.25	0.115	-18.79	78.00	0.054	-25.35
-5.50	0.006	-44.44	11.25	0.335	-9.5	28.00	0.127	-17.92	44.75	0.058	-24.73	61.50	0.115	-18.79	78.25	0.054	-25.35
-5.25	0.034	-29.37	11.50	0.337	-9.45	28.25	0.129	-17.79	45.00	0.064	-23.88	61.75	0.115	-18.79	78.50	0.054	-25.35
-5.00	0.074	-22.62	11.75	0.337	-9.45	28.50	0.130	-17.72	45.25	0.070	-23.1	62.00	0.115	-18.79	78.75	0.054	-25.35
-4.75	0.116	-18.71	12.00	0.336	-9.47	28.75	0.131	-17.65	45.50	0.075	-22.5	62.25	0.115	-18.79	79.00	0.054	-25.35
-4.50	0.160	-15.92	12.25	0.332	-9.58	29.00	0.130	-17.72	45.75	0.080	-21.94	62.50	0.115	-18.79	79.25	0.054	-25.35
-4.25	0.205	-13.76	12.50	0.326	-9.74	29.25	0.129	-17.79	46.00	0.085	-21.41	62.75	0.114	-18.86	79.50	0.054	-25.35
-4.00	0.251	-12.01	12.75	0.318	-9.95	29.50	0.126	-17.99	46.25	0.089	-21.01	63.00	0.113	-18.94	79.75	0.054	-25.35
-3.75	0.298	-10.52	13.00	0.309	-10.2	29.75	0.123	-18.2	46.50	0.092	-20.72	63.25	0.112	-19.02	80.00	0.053	-25.51
-3.50	0.345	-9.24	13.25	0.298	-10.52	30.00	0.119	-18.49	46.75	0.095	-20.45	63.50	0.111	-19.09	80.25	0.053	-25.51
-3.25	0.393	-8.11	13.50	0.285	-10.9	30.25	0.114	-18.86	47.00	0.098	-20.18	63.75	0.110	-19.17	80.50	0.052	-25.68
-3.00	0.441	-7.11	13.75	0.271	-11.34	30.50	0.108	-19.33	47.25	0.100	-20	64.00	0.108	-19.33	80.75	0.052	-25.68
-2.75	0.488	-6.23	14.00	0.255	-11.87	30.75	0.101	-19.91	47.50	0.102	-19.83	64.25	0.106	-19.49	81.00	0.051	-25.85
-2.50	0.535	-5.43	14.25	0.239	-12.43	31.00	0.094	-20.54	47.75	0.103	-19.74	64.50	0.104	-19.66	81.25	0.050	-26.02
-2.25	0.582	-4.7	14.50	0.222	-13.07	31.25	0.087	-21.21	48.00	0.104	-19.66	64.75	0.102	-19.83	81.50	0.050	-26.02
-2.00	0.627	-4.05	14.75	0.204	-13.81	31.50	0.079	-22.05	48.25	0.104	-19.66	65.00	0.100	-20	81.75	0.049	-26.2
-1.75	0.670	-3.48	15.00	0.187	-14.56	31.75	0.071	-22.97	48.50	0.104	-19.66	65.25	0.098	-20.18	82.00	0.048	-26.38
-1.50	0.712	-2.95	15.25	0.169	-15.44	32.00	0.062	-24.15	48.75	0.103	-19.74	65.50	0.096	-20.35	82.25	0.047	-26.56
-1.25	0.752	-2.48	15.50	0.153	-16.31	32.25	0.054	-25.35	49.00	0.101	-19.91	65.75	0.093	-20.63	82.50	0.046	-26.74
-1.00	0.789	-2.06	15.75	0.138	-17.2	32.50	0.047	-26.56	49.25	0.100	-20	66.00	0.091	-20.82	82.75	0.045	-26.94
-0.75	0.824	-1.68	16.00	0.124	-18.13	32.75	0.040	-27.96	49.50	0.097	-20.26	66.25	0.088	-21.11	83.00	0.044	-27.13
-0.50	0.857	-1.34	16.25	0.114	-18.86	33.00	0.034	-29.37	49.75	0.095	-20.45	66.50	0.086	-21.31	83.25	0.043	-27.33
-0.25	0.886	-1.05	16.50	0.107	-19.41	33.25	0.031	-30.17	50.00	0.092	-20.72	66.75	0.083	-21.62	83.50	0.042	-27.54
0.00	0.913	-0.79	16.75	0.104	-19.66	33.50	0.031	-30.17	50.25	0.088	-21.11	67.00	0.080	-21.94	83.75	0.041	-27.74
0.25	0.936	-0.57	17.00	0.105	-19.58	33.75	0.034	-29.37	50.50	0.085	-21.41	67.25	0.078	-22.16	84.00	0.039	-28.18
0.50	0.956	-0.39	17.25	0.109	-19.25	34.00	0.040	-27.96	50.75	0.080	-21.94	67.50	0.075	-22.5	84.25	0.038	-28.4
0.75	0.972	-0.25	17.50	0.115	-18.79	34.25	0.046	-26.74	51.00	0.076	-22.38	67.75	0.073	-22.73	84.50	0.037	-28.64
1.00	0.985	-0.13	17.75	0.123	-18.2	34.50	0.053	-25.51	51.25	0.071	-22.97	68.00	0.070	-23.1	84.75	0.035	-29.12
1.25	0.993	-0.06	18.00	0.132	-17.59	34.75	0.060	-24.44	51.50	0.066	-23.61	68.25	0.067	-23.48	85.00	0.034	-29.37
1.50	0.999	-0.01	18.25	0.141	-17.02	35.00	0.067	-23.48	51.75	0.061	-24.29	68.50	0.065	-23.74	85.25	0.032	-29.9
1.75	1.000	0	18.50	0.150	-16.48	35.25	0.074	-22.62	52.00	0.055	-25.19	68.75	0.062	-24.15	85.50	0.031	-30.17
2.00	0.998	-0.02	18.75	0.158	-16.03	35.50	0.080	-21.94	52.25	0.050	-26.02	69.00	0.060	-24.44	85.75	0.029	-30.75
2.25	0.992	-0.07	19.00	0.165	-15.65	35.75	0.086	-21.31	52.50	0.044	-27.13	69.25	0.058	-24.73	86.00	0.028	-31.06
2.50	0.982	-0.16	19.25	0.171	-15.34	36.00	0.091	-20.82	52.75	0.038	-28.4	69.50	0.056	-25.04	86.25	0.026	-31.7
2.75	0.969	-0.27	19.50	0.176	-15.09	36.25	0.096	-20.35	53.00	0.032	-29.9	69.75	0.054	-25.35	86.50	0.024	-32.4
3.00	0.952	-0.43	19.75	0.180	-14.89	36.50	0.100	-20	53.25	0.026	-31.7	70.00	0.052	-25.68	86.75	0.023	-32.77
3.25	0.932	-0.61	20.00	0.182	-14.8	36.75	0.103	-19.74	53.50	0.020	-33.98	70.25	0.050	-26.02	87.00	0.021	-33.56
3.50	0.909	-0.83	20.25	0.182	-14.8	37.00	0.106	-19.49	53.75	0.014	-37.08	70.50	0.049	-26.2	87.25	0.019	-34.42
3.75	0.882	-1.09	20.50	0.182	-14.8	37.25	0.108	-19.33	54.00	0.010	-40	70.75	0.048	-26.38	87.50	0.018	-34.99
4.00	0.854	-1.37	20.75	0.180	-14.89	37.50	0.109	-19.25	54.25	0.009	-40.92	71.00	0.047	-26.56	87.75	0.016	-35.92
4.25	0.822	-1.7	21.00	0.176	-15.09	37.75	0.109	-19.25	54.50	0.011	-39.17	71.25	0.046	-26.74	88.00	0.014	-37.08
4.50	0.789	-2.06	21.25	0.172	-15.29	38.00	0.109	-19.25	54.75	0.016	-35.92	71.50	0.045	-26.94	88.25	0.013	-37.72
4.75	0.754	-2.45	21.50	0.166	-15.6	38.25	0.108	-19.33	55.00	0.022	-33.15	71.75	0.044	-27.13	88.50	0.011	-39.17
5.00	0.717	-2.89	21.75	0.159	-15.97	38.50	0.107	-19.41	55.25	0.028	-31.06	72.00	0.044	-27.13	88.75	0.009	-40.92
5.25	0.678	-3.38	22.00	0.151	-16.42	38.75	0.104	-19.66	55.50	0.034	-29.37	72.25	0.044	-27.13	89.00	0.007	-43.1
5.50	0.639	-3.89	22.25	0.142	-16.95	39.00	0.101	-19.91	55.75	0.040	-27.96	72.50	0.044	-27.13	89.25	0.005	-46.02
5.75	0.600	-4.44	22.50	0.132	-17.59	39.25	0.098	-20.18	56.00								