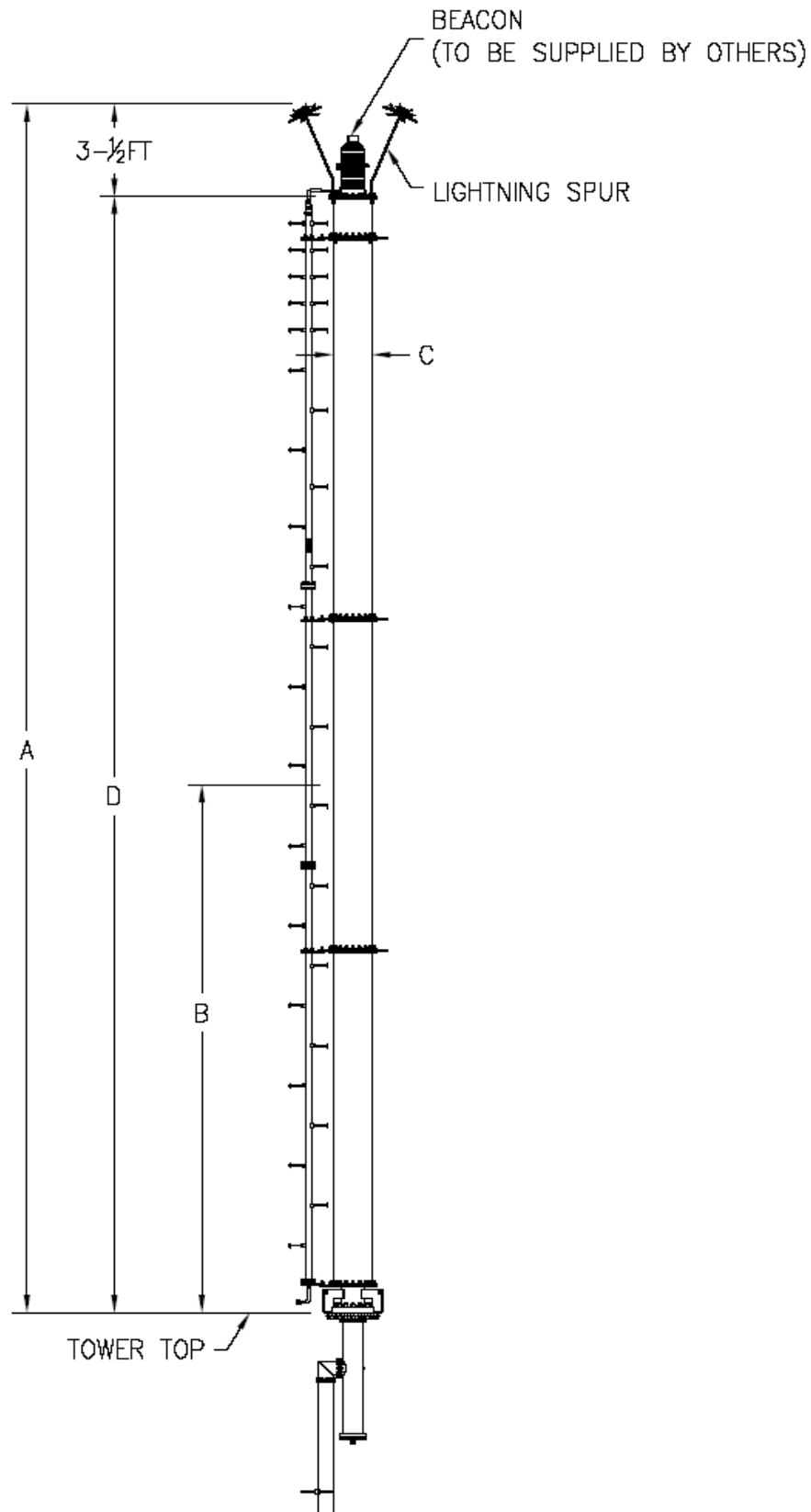


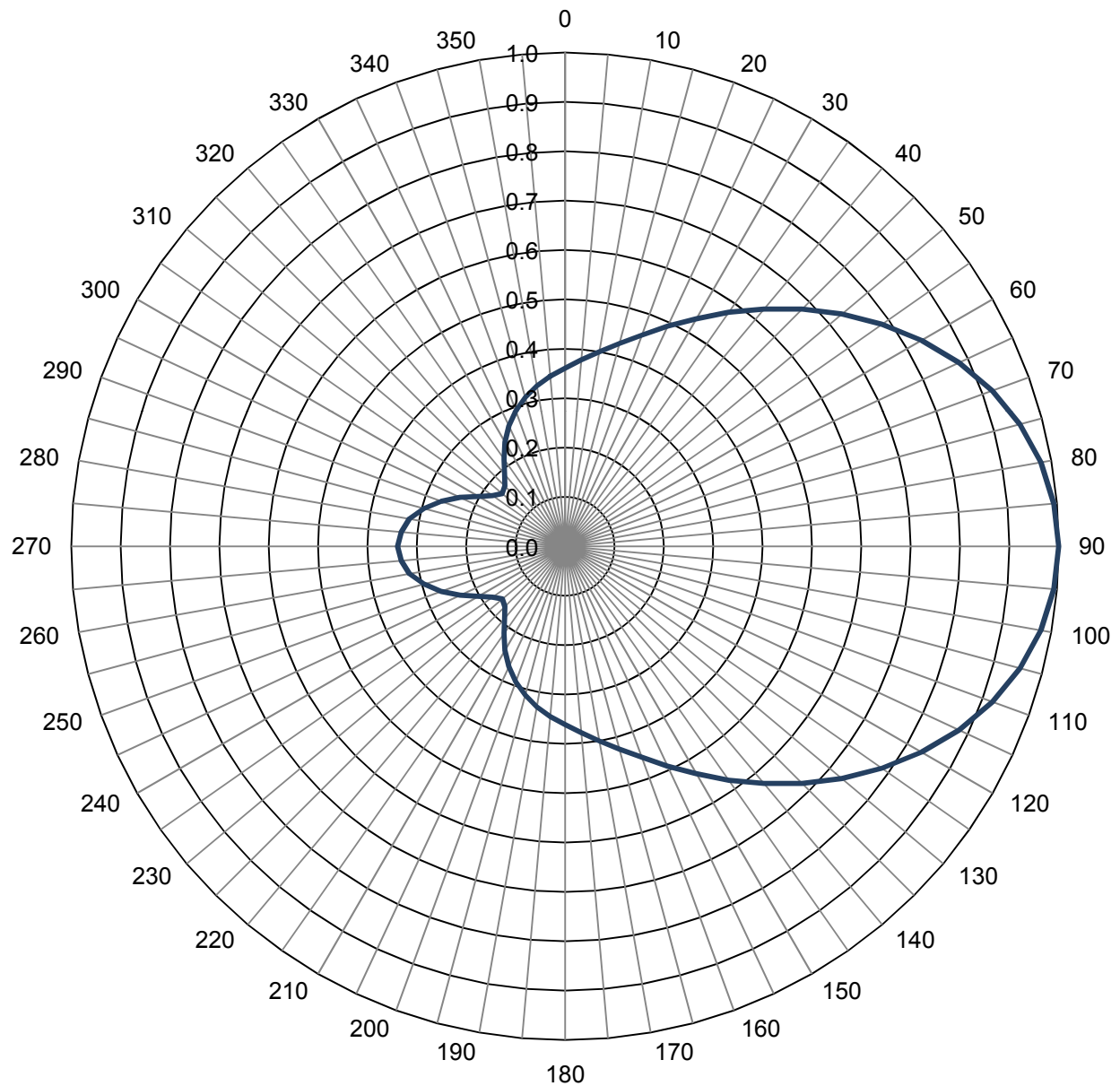
Typical Mounting Configuration Shown. Actual Configuration May Vary.



Azimuth Pattern

Type:	ATW-C5	Polarization:	Horizontal
Directivity:	3.40 numeric (5.31 dB)	Frequency:	24 (ATSC)
Peak(s) at:		Location:	Pensacola, FL
		NOTE: Pattern shape and directivity may vary with channel and mounting configuration.	

Relative Field

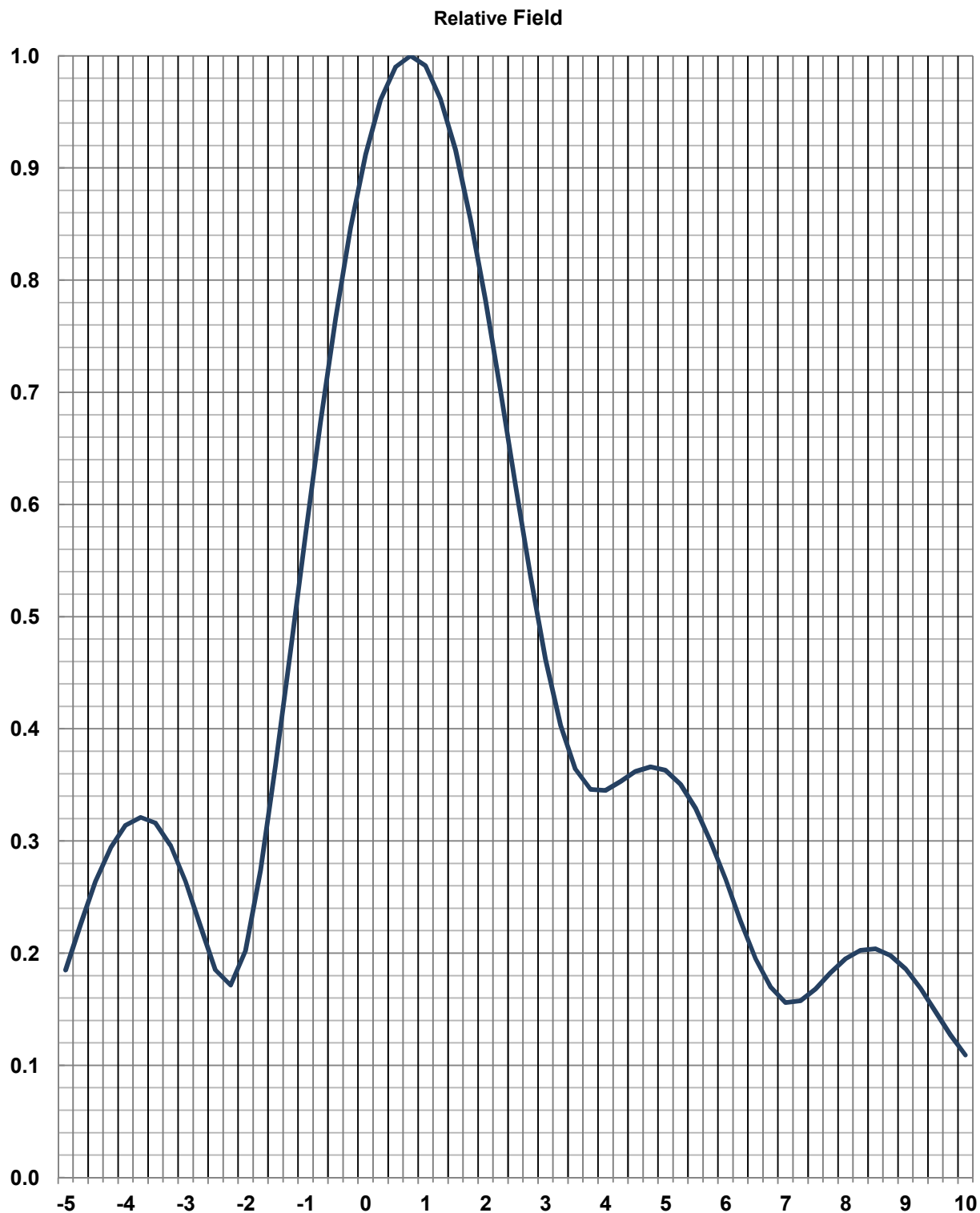


Tabulated Data for Azimuth PatternType: ATW-C5

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
0	0.361	-8.85	100	0.979	-0.18	200	0.292	-10.69	300	0.202	-13.89
2	0.368	-8.68	102	0.969	-0.27	202	0.283	-10.96	302	0.192	-14.33
4	0.375	-8.52	104	0.960	-0.35	204	0.274	-11.24	304	0.183	-14.75
6	0.383	-8.34	106	0.948	-0.46	206	0.264	-11.57	306	0.176	-15.09
8	0.392	-8.13	108	0.935	-0.58	208	0.253	-11.94	308	0.171	-15.34
10	0.400	-7.96	110	0.921	-0.71	210	0.243	-12.29	310	0.166	-15.60
12	0.410	-7.74	112	0.905	-0.87	212	0.232	-12.69	312	0.168	-15.49
14	0.420	-7.54	114	0.889	-1.02	214	0.221	-13.11	314	0.170	-15.39
16	0.431	-7.31	116	0.872	-1.19	216	0.210	-13.56	316	0.175	-15.14
18	0.443	-7.07	118	0.853	-1.38	218	0.200	-13.98	318	0.182	-14.80
20	0.455	-6.84	120	0.834	-1.58	220	0.190	-14.42	320	0.190	-14.42
22	0.469	-6.58	122	0.814	-1.79	222	0.182	-14.80	322	0.200	-13.98
24	0.484	-6.30	124	0.794	-2.00	224	0.175	-15.14	324	0.210	-13.56
26	0.499	-6.04	126	0.774	-2.23	226	0.170	-15.39	326	0.221	-13.11
28	0.516	-5.75	128	0.753	-2.46	228	0.168	-15.49	328	0.232	-12.69
30	0.532	-5.48	130	0.732	-2.71	230	0.166	-15.60	330	0.243	-12.29
32	0.550	-5.19	132	0.711	-2.96	232	0.171	-15.34	332	0.253	-11.94
34	0.569	-4.90	134	0.690	-3.22	234	0.176	-15.09	334	0.264	-11.57
36	0.588	-4.61	136	0.669	-3.49	236	0.183	-14.75	336	0.274	-11.24
38	0.607	-4.34	138	0.648	-3.77	238	0.192	-14.33	338	0.283	-10.96
40	0.627	-4.05	140	0.627	-4.05	240	0.202	-13.89	340	0.292	-10.69
42	0.648	-3.77	142	0.607	-4.34	242	0.215	-13.35	342	0.300	-10.46
44	0.669	-3.49	144	0.588	-4.61	244	0.228	-12.84	344	0.308	-10.23
46	0.690	-3.22	146	0.569	-4.90	246	0.241	-12.36	346	0.316	-10.01
48	0.711	-2.96	148	0.550	-5.19	248	0.254	-11.90	348	0.323	-9.82
50	0.732	-2.71	150	0.532	-5.48	250	0.267	-11.47	350	0.330	-9.63
52	0.753	-2.46	152	0.516	-5.75	252	0.279	-11.09	352	0.336	-9.47
54	0.774	-2.23	154	0.499	-6.04	254	0.290	-10.75	354	0.343	-9.29
56	0.794	-2.00	156	0.484	-6.30	256	0.301	-10.43	356	0.349	-9.14
58	0.814	-1.79	158	0.469	-6.58	258	0.310	-10.17	358	0.355	-9.00
60	0.834	-1.58	160	0.455	-6.84	260	0.320	-9.90	360	0.361	-8.85
62	0.853	-1.38	162	0.443	-7.07	262	0.326	-9.74			
64	0.872	-1.19	164	0.431	-7.31	264	0.331	-9.60			
66	0.889	-1.02	166	0.420	-7.54	266	0.335	-9.50			
68	0.905	-0.87	168	0.410	-7.74	268	0.337	-9.45			
70	0.921	-0.71	170	0.400	-7.96	270	0.339	-9.40			
72	0.935	-0.58	172	0.392	-8.13	272	0.337	-9.45			
74	0.948	-0.46	174	0.383	-8.34	274	0.335	-9.50			
76	0.960	-0.35	176	0.375	-8.52	276	0.331	-9.60			
78	0.969	-0.27	178	0.368	-8.68	278	0.326	-9.74			
80	0.979	-0.18	180	0.361	-8.85	280	0.320	-9.90			
82	0.985	-0.13	182	0.355	-9.00	282	0.310	-10.17			
84	0.992	-0.07	184	0.349	-9.14	284	0.301	-10.43			
86	0.996	-0.03	186	0.343	-9.29	286	0.290	-10.75			
88	0.998	-0.02	188	0.336	-9.47	288	0.279	-11.09			
90	1.000	0.00	190	0.330	-9.63	290	0.267	-11.47			
92	0.998	-0.02	192	0.323	-9.82	292	0.254	-11.90			
94	0.996	-0.03	194	0.316	-10.01	294	0.241	-12.36			
96	0.992	-0.07	196	0.308	-10.23	296	0.228	-12.84			
98	0.985	-0.13	198	0.300	-10.46	298	0.215	-13.35			

Elevation Pattern

Type:	17H3H	Polarization:	Horizontal
Directivity:		Frequency:	24 (ATSC)
Main Lobe:	17.00 numeric (12.30 dB)	Location:	Pensacola, FL
Horizontal:	14.14 numeric (11.50 dB)	Beam Tilt:	0.75 degrees



Tabulated Data for Elevation Pattern

Type: 17H3H

-5 to 10 degrees in 0.25 degree increments.

10 to 90 degrees in 0.50 degree increments.

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-5.00	0.185	-14.66	7.25	0.158	-16.05	29.00	0.065	-23.74	53.50	0.029	-30.75	78.00	0.011	-39.17
-4.75	0.226	-12.92	7.50	0.168	-15.49	29.50	0.066	-23.61	54.00	0.039	-28.18	78.50	0.016	-35.92
-4.50	0.264	-11.57	7.75	0.183	-14.77	30.00	0.058	-24.73	54.50	0.049	-26.20	79.00	0.020	-33.98
-4.25	0.294	-10.63	8.00	0.195	-14.20	30.50	0.045	-26.94	55.00	0.057	-24.88	79.50	0.025	-32.04
-4.00	0.314	-10.06	8.25	0.203	-13.87	31.00	0.035	-29.12	55.50	0.063	-24.01	80.00	0.029	-30.75
-3.75	0.321	-9.87	8.50	0.204	-13.81	31.50	0.037	-28.64	56.00	0.064	-23.88	80.50	0.032	-29.90
-3.50	0.316	-10.01	8.75	0.198	-14.07	32.00	0.048	-26.38	56.50	0.062	-24.15	81.00	0.035	-29.12
-3.25	0.296	-10.57	9.00	0.186	-14.61	32.50	0.058	-24.73	57.00	0.056	-25.04	81.50	0.037	-28.64
-3.00	0.264	-11.57	9.25	0.169	-15.47	33.00	0.063	-24.01	57.50	0.047	-26.56	82.00	0.038	-28.40
-2.75	0.224	-13.01	9.50	0.148	-16.59	33.50	0.060	-24.44	58.00	0.037	-28.64	82.50	0.039	-28.18
-2.50	0.185	-14.66	9.75	0.127	-17.92	34.00	0.050	-26.02	58.50	0.028	-31.06	83.00	0.039	-28.18
-2.25	0.172	-15.31	10.00	0.109	-19.25	34.50	0.038	-28.40	59.00	0.025	-32.04	83.50	0.038	-28.40
-2.00	0.202	-13.89	10.50	0.099	-20.09	35.00	0.032	-29.90	59.50	0.030	-30.46	84.00	0.037	-28.64
-1.75	0.274	-11.24	11.00	0.119	-18.49	35.50	0.037	-28.64	60.00	0.040	-27.96	84.50	0.036	-28.87
-1.50	0.367	-8.71	11.50	0.139	-17.14	36.00	0.048	-26.38	60.50	0.051	-25.85	85.00	0.034	-29.37
-1.25	0.470	-6.57	12.00	0.141	-17.02	36.50	0.057	-24.88	61.00	0.060	-24.44	85.50	0.032	-29.90
-1.00	0.574	-4.82	12.50	0.125	-18.06	37.00	0.060	-24.44	61.50	0.067	-23.48	86.00	0.029	-30.75
-0.75	0.674	-3.43	13.00	0.096	-20.35	37.50	0.057	-24.88	62.00	0.070	-23.10	86.50	0.026	-31.70
-0.50	0.766	-2.32	13.50	0.074	-22.62	38.00	0.048	-26.38	62.50	0.071	-22.97	87.00	0.023	-32.77
-0.25	0.847	-1.45	14.00	0.078	-22.16	38.50	0.037	-28.64	63.00	0.069	-23.22	87.50	0.019	-34.42
0.00	0.912	-0.80	14.50	0.097	-20.26	39.00	0.030	-30.46	63.50	0.063	-24.01	88.00	0.016	-35.92
0.25	0.961	-0.35	15.00	0.110	-19.17	39.50	0.034	-29.37	64.00	0.056	-25.04	88.50	0.012	-38.42
0.50	0.990	-0.09	15.50	0.109	-19.25	40.00	0.045	-26.94	64.50	0.046	-26.74	89.00	0.008	-41.94
0.75	1.000	0.00	16.00	0.092	-20.72	40.50	0.054	-25.35	65.00	0.036	-28.87	89.50	0.004	-47.96
1.00	0.991	-0.08	16.50	0.070	-23.10	41.00	0.059	-24.58	65.50	0.025	-32.04	90.00	0.000	---
1.25	0.962	-0.34	17.00	0.057	-24.88	41.50	0.058	-24.73	66.00	0.020	-33.98			
1.50	0.916	-0.76	17.50	0.067	-23.48	42.00	0.052	-25.68	66.50	0.022	-33.15			
1.75	0.855	-1.37	18.00	0.084	-21.51	42.50	0.042	-27.54	67.00	0.031	-30.17			
2.00	0.782	-2.14	18.50	0.093	-20.63	43.00	0.032	-29.90	67.50	0.042	-27.54			
2.25	0.701	-3.09	19.00	0.089	-21.01	43.50	0.029	-30.75	68.00	0.052	-25.68			
2.50	0.617	-4.19	19.50	0.073	-22.73	44.00	0.036	-28.87	68.50	0.061	-24.29			
2.75	0.536	-5.42	20.00	0.055	-25.19	44.50	0.047	-26.56	69.00	0.069	-23.22			
3.00	0.462	-6.71	20.50	0.048	-26.38	45.00	0.055	-25.19	69.50	0.075	-22.50			
3.25	0.403	-7.89	21.00	0.059	-24.58	45.50	0.059	-24.58	70.00	0.080	-21.94			
3.50	0.364	-8.78	21.50	0.074	-22.62	46.00	0.058	-24.73	70.50	0.082	-21.72			
3.75	0.346	-9.22	22.00	0.081	-21.83	46.50	0.052	-25.68	71.00	0.082	-21.72			
4.00	0.345	-9.24	22.50	0.076	-22.38	47.00	0.043	-27.33	71.50	0.081	-21.83			
4.25	0.353	-9.04	23.00	0.063	-24.01	47.50	0.033	-29.63	72.00	0.078	-22.16			
4.50	0.362	-8.83	23.50	0.047	-26.56	48.00	0.028	-31.06	72.50	0.074	-22.62			
4.75	0.366	-8.73	24.00	0.042	-27.54	48.50	0.032	-29.90	73.00	0.069	-23.22			
5.00	0.363	-8.80	24.50	0.052	-25.68	49.00	0.042	-27.54	73.50	0.063	-24.01			
5.25	0.351	-9.11	25.00	0.065	-23.74	49.50	0.052	-25.68	74.00	0.056	-25.04			
5.50	0.329	-9.66	25.50	0.072	-22.85	50.00	0.059	-24.58	74.50	0.048	-26.38			
5.75	0.300	-10.47	26.00	0.069	-23.22	50.50	0.061	-24.29	75.00	0.040	-27.96			
6.00	0.266	-11.50	26.50	0.058	-24.73	51.00	0.059	-24.58	75.50	0.032	-29.90			
6.25	0.229	-12.80	27.00	0.044	-27.13	51.50	0.052	-25.68	76.00	0.024	-32.40			
6.50	0.195	-14.20	27.50	0.037	-28.64	52.00	0.043	-27.33	76.50	0.017	-35.39			
6.75	0.170	-15.39	28.00	0.045	-26.94	52.50	0.033	-29.63	77.00	0.011	-39.17			
7.00	0.156	-16.14	28.50	0.057	-24.88	53.00	0.027	-31.37	77.50	0.008	-41.94			