

## AZIMUTH PATTERN

TYPE:

ATW27H3H

Frequency:

24 (DTV)

Location:

Morehead, NC

Polarization:

Horizontal

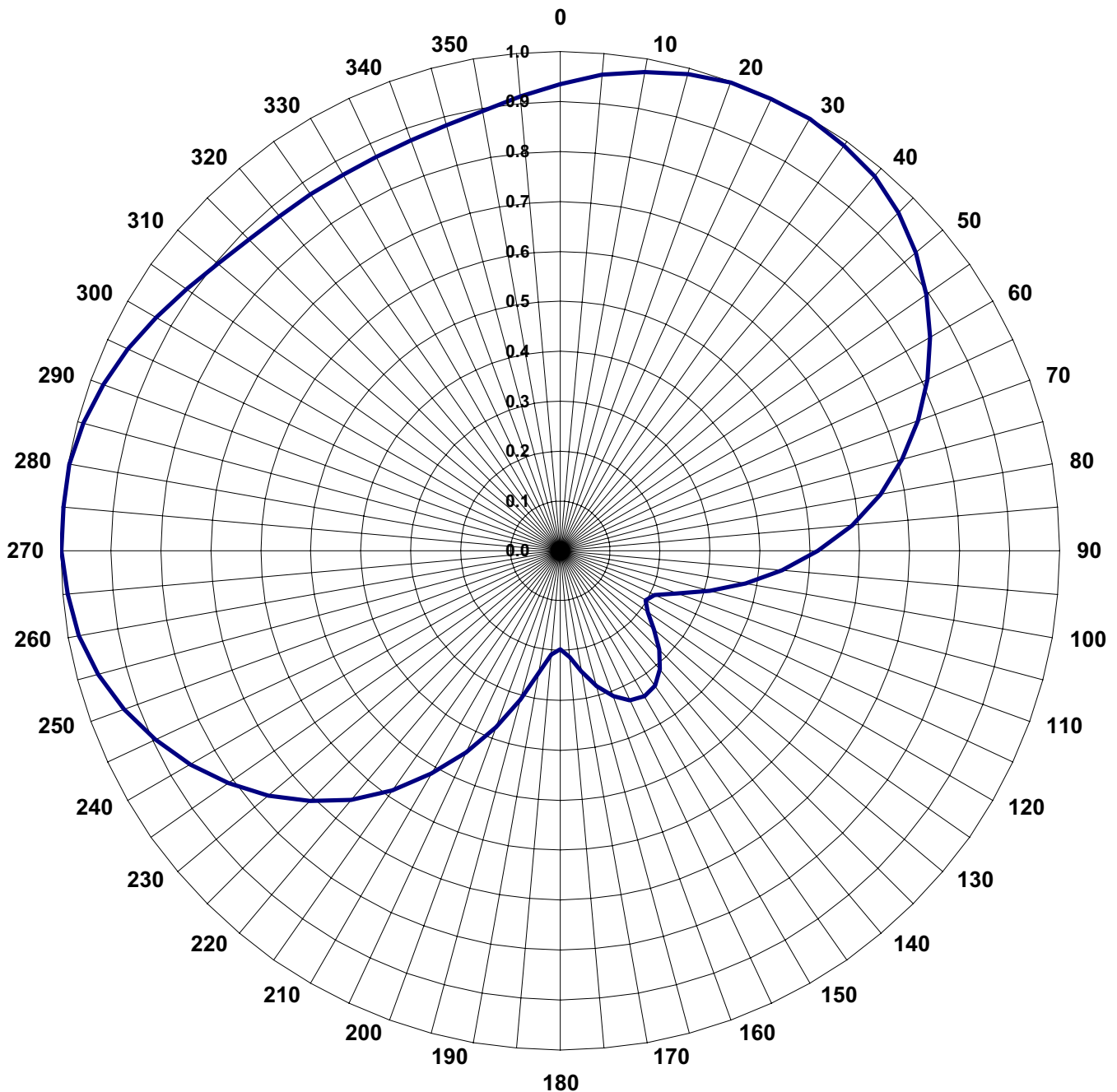
Directivity:

Numeric  
1.80

dB  
2.55

Peak(s) at:

Note: Pattern shape and directivity may vary with  
channel and mounting configuration.



# **TABULATED DATA FOR AZIMUTH PATTERN**

TYPE:

A1W27H3H

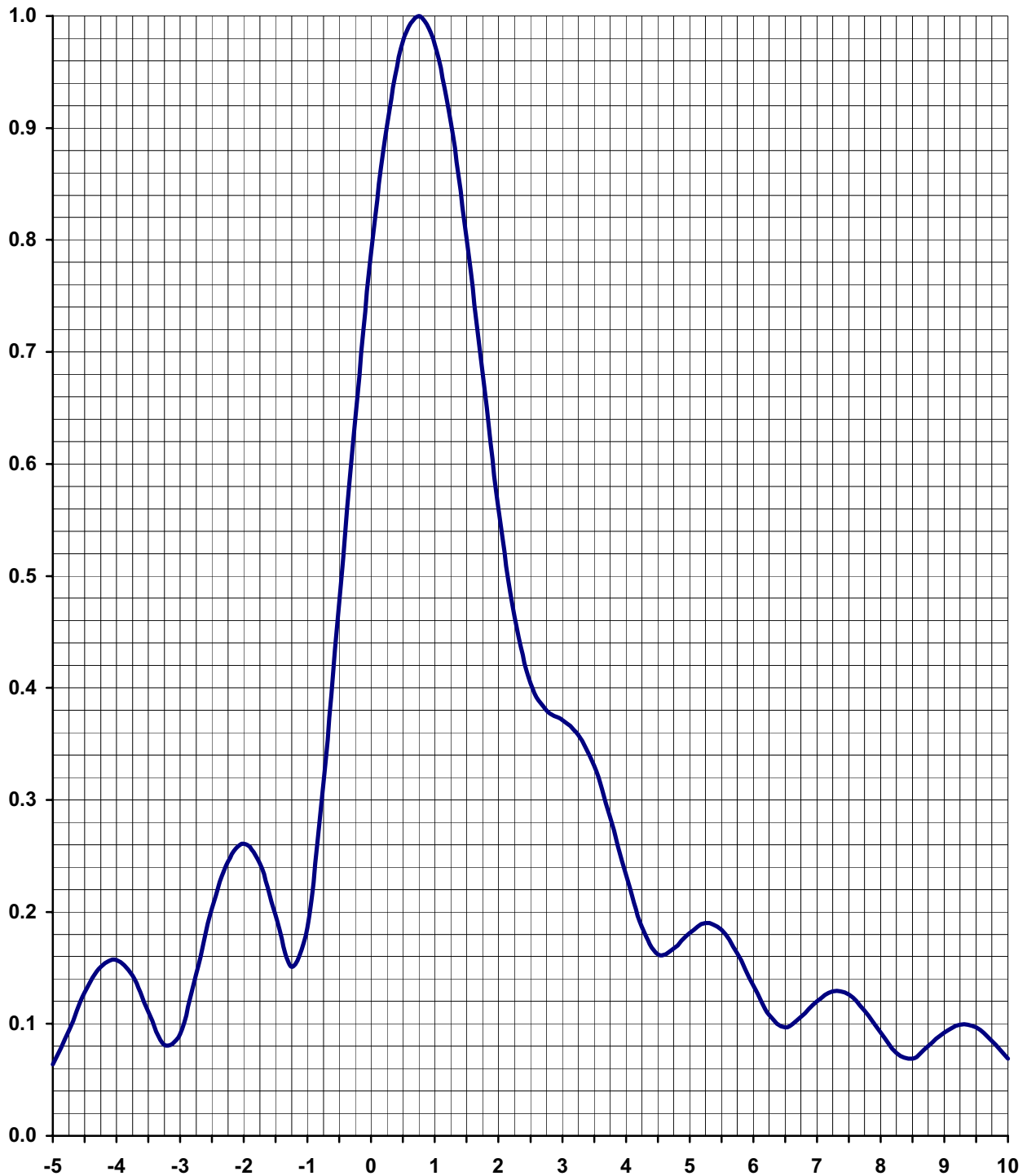
ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.935	-0.58	92	0.488	-6.23	184	0.203	-13.85	276	0.999	-0.01
2	0.944	-0.50	94	0.460	-6.74	186	0.215	-13.35	278	0.999	-0.01
4	0.953	-0.42	96	0.432	-7.29	188	0.231	-12.73	280	0.998	-0.02
6	0.960	-0.35	98	0.405	-7.85	190	0.249	-12.08	282	0.996	-0.03
8	0.967	-0.29	100	0.377	-8.47	192	0.272	-11.31	284	0.990	-0.09
10	0.974	-0.23	102	0.349	-9.14	194	0.297	-10.54	286	0.986	-0.12
12	0.980	-0.18	104	0.322	-9.84	196	0.322	-9.84	288	0.980	-0.18
14	0.986	-0.12	106	0.297	-10.54	198	0.349	-9.14	290	0.974	-0.23
16	0.990	-0.09	108	0.272	-11.31	200	0.377	-8.47	292	0.967	-0.29
18	0.996	-0.03	110	0.249	-12.08	202	0.405	-7.85	294	0.960	-0.35
20	0.998	-0.02	112	0.231	-12.73	204	0.432	-7.29	296	0.953	-0.42
22	0.999	-0.01	114	0.215	-13.35	206	0.460	-6.74	298	0.944	-0.50
24	0.999	-0.01	116	0.203	-13.85	208	0.488	-6.23	300	0.935	-0.58
26	1.000	0.00	118	0.197	-14.11	210	0.516	-5.75	302	0.927	-0.66
28	0.999	-0.01	120	0.197	-14.11	212	0.545	-5.27	304	0.918	-0.74
30	0.999	-0.01	122	0.200	-13.98	214	0.573	-4.84	306	0.909	-0.83
32	0.995	-0.04	124	0.208	-13.64	216	0.601	-4.42	308	0.901	-0.91
34	0.992	-0.07	126	0.220	-13.15	218	0.627	-4.05	310	0.895	-0.96
36	0.989	-0.10	128	0.232	-12.69	220	0.651	-3.73	312	0.889	-1.02
38	0.986	-0.12	130	0.246	-12.18	222	0.675	-3.41	314	0.884	-1.07
40	0.979	-0.18	132	0.260	-11.70	224	0.698	-3.12	316	0.880	-1.11
42	0.972	-0.25	134	0.274	-11.24	226	0.720	-2.85	318	0.877	-1.14
44	0.962	-0.34	136	0.288	-10.81	228	0.741	-2.60	320	0.874	-1.17
46	0.953	-0.42	138	0.300	-10.46	230	0.763	-2.35	322	0.872	-1.19
48	0.942	-0.52	140	0.310	-10.17	232	0.784	-2.11	324	0.871	-1.20
50	0.929	-0.64	142	0.319	-9.92	234	0.802	-1.92	326	0.870	-1.21
52	0.916	-0.76	144	0.327	-9.71	236	0.821	-1.71	328	0.869	-1.22
54	0.901	-0.91	146	0.332	-9.58	238	0.838	-1.54	330	0.869	-1.22
56	0.888	-1.03	148	0.335	-9.50	240	0.856	-1.35	332	0.869	-1.22
58	0.872	-1.19	150	0.336	-9.47	242	0.872	-1.19	334	0.870	-1.21
60	0.856	-1.35	152	0.335	-9.50	244	0.888	-1.03	336	0.871	-1.20
62	0.838	-1.54	154	0.332	-9.58	246	0.901	-0.91	338	0.872	-1.19
64	0.821	-1.71	156	0.327	-9.71	248	0.916	-0.76	340	0.874	-1.17
66	0.802	-1.92	158	0.319	-9.92	250	0.929	-0.64	342	0.877	-1.14
68	0.784	-2.11	160	0.310	-10.17	252	0.942	-0.52	344	0.880	-1.11
70	0.763	-2.35	162	0.300	-10.46	254	0.953	-0.42	346	0.884	-1.07
72	0.741	-2.60	164	0.288	-10.81	256	0.962	-0.34	348	0.889	-1.02
74	0.720	-2.85	166	0.274	-11.24	258	0.972	-0.25	350	0.895	-0.96
76	0.698	-3.12	168	0.260	-11.70	260	0.979	-0.18	352	0.901	-0.91
78	0.675	-3.41	170	0.246	-12.18	262	0.986	-0.12	354	0.909	-0.83
80	0.651	-3.73	172	0.232	-12.69	264	0.989	-0.10	356	0.918	-0.74
82	0.627	-4.05	174	0.220	-13.15	266	0.992	-0.07	358	0.927	-0.66
84	0.601	-4.42	176	0.208	-13.64	268	0.995	-0.04	360	0.935	-0.58
86	0.573	-4.84	178	0.200	-13.98	270	0.999	-0.01			
88	0.545	-5.27	180	0.197	-14.11	272	0.999	-0.01			
90	0.516	-5.75	182	0.197	-14.11	274	1.000	0.00			

### ELEVATION PATTERN

TYPE: ATW27H3H

Directivity:	Numeric	dBd
Main Lobe:	<u>27.00</u>	<u>14.31</u>
Horizontal:	<u>16.77</u>	<u>12.24</u>

Frequency:	<u>24 (DTV)</u>
Location:	<u>Morehead, NC</u>
Beam Tilt:	<u>0.75</u>
Polarization:	<u>Horizontal</u>



# **TABULATED DATA FOR ELEVATION PATTERN**

**ATW27H3H**

**-5 to 10 degrees in 0.25 increments**

**10 to 90 degrees in 0.50 increments**

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
-5.000	0.064	-23.88	6.75	0.106	-19.49	27.00	0.023	-32.77	50.50	0.034	-29.37	74.00	0.006	-44.44
-4.750	0.094	-20.54	7.00	0.120	-18.42	27.50	0.034	-29.37	51.00	0.031	-30.17	74.50	0.012	-38.42
-4.500	0.128	-17.86	7.25	0.129	-17.79	28.00	0.037	-28.64	51.50	0.023	-32.77	75.00	0.019	-34.42
-4.250	0.151	-16.42	7.50	0.126	-17.99	28.50	0.027	-31.37	52.00	0.014	-37.08	75.50	0.027	-31.37
-4.000	0.157	-16.08	7.75	0.112	-19.02	29.00	0.019	-34.42	52.50	0.018	-34.89	76.00	0.033	-29.63
-3.750	0.143	-16.89	8.00	0.092	-20.72	29.50	0.028	-31.06	53.00	0.028	-31.06	76.50	0.037	-28.64
-3.500	0.111	-19.09	8.25	0.074	-22.62	30.00	0.036	-28.87	53.50	0.034	-29.37	77.00	0.041	-27.74
-3.250	0.081	-21.83	8.50	0.069	-23.22	30.50	0.031	-30.17	54.00	0.034	-29.37	77.50	0.042	-27.54
-3.000	0.091	-20.82	8.75	0.080	-21.94	31.00	0.020	-33.98	54.50	0.028	-31.06	78.00	0.043	-27.33
-2.750	0.145	-16.77	9.00	0.092	-20.72	31.50	0.022	-33.15	55.00	0.018	-34.89	78.50	0.042	-27.54
-2.500	0.203	-13.85	9.25	0.099	-20.09	32.00	0.032	-29.90	55.50	0.014	-37.08	79.00	0.041	-27.74
-2.250	0.245	-12.22	9.50	0.097	-20.26	32.50	0.034	-29.37	56.00	0.022	-33.15	79.50	0.038	-28.40
-2.000	0.261	-11.67	9.75	0.085	-21.41	33.00	0.025	-32.04	56.50	0.031	-30.17	80.00	0.035	-29.12
-1.750	0.243	-12.29	10.00	0.069	-23.22	33.50	0.017	-35.39	57.00	0.036	-28.87	80.50	0.032	-29.90
-1.500	0.197	-14.11	10.50	0.054	-25.35	34.00	0.025	-32.04	57.50	0.035	-29.12	81.00	0.028	-31.06
-1.250	0.151	-16.42	11.00	0.075	-22.50	34.50	0.033	-29.63	58.00	0.029	-30.75	81.50	0.024	-32.40
-1.000	0.186	-14.61	11.50	0.078	-22.16	35.00	0.031	-30.17	58.50	0.019	-34.42	82.00	0.020	-33.98
-0.750	0.316	-10.01	12.00	0.056	-25.04	35.50	0.021	-33.56	59.00	0.013	-37.72	82.50	0.016	-35.92
-0.500	0.476	-6.45	12.50	0.046	-26.74	36.00	0.017	-35.39	59.50	0.019	-34.42	83.00	0.013	-37.72
-0.250	0.641	-3.86	13.00	0.064	-23.88	36.50	0.027	-31.37	60.00	0.028	-31.06	83.50	0.009	-40.92
0.000	0.788	-2.07	13.50	0.066	-23.61	37.00	0.033	-29.63	60.50	0.036	-28.87	84.00	0.007	-43.10
0.250	0.903	-0.89	14.00	0.046	-26.74	37.50	0.029	-30.75	61.00	0.038	-28.40	84.50	0.004	-47.96
0.500	0.977	-0.20	14.50	0.039	-28.18	38.00	0.019	-34.42	61.50	0.036	-28.87	85.00	0.002	-53.98
0.750	1.000	0.00	15.00	0.056	-25.04	38.50	0.018	-34.89	62.00	0.029	-30.75	85.50	0.001	-60.00
1.000	0.975	-0.22	15.50	0.058	-24.73	39.00	0.028	-31.06	62.50	0.019	-34.42	86.00	0.001	-60.00
1.250	0.905	-0.87	16.00	0.041	-27.74	39.50	0.033	-29.63	63.00	0.012	-38.42	86.50	0.001	-60.00
1.500	0.802	-1.92	16.50	0.034	-29.37	40.00	0.029	-30.75	63.50	0.017	-35.39	87.00	0.002	-53.98
1.750	0.681	-3.34	17.00	0.049	-26.20	40.50	0.019	-34.42	64.00	0.026	-31.70	87.50	0.002	-53.98
2.000	0.561	-5.02	17.50	0.052	-25.68	41.00	0.017	-35.39	64.50	0.035	-29.12	88.00	0.002	-53.98
2.250	0.464	-6.67	18.00	0.038	-28.40	41.50	0.027	-31.37	65.00	0.040	-27.96	88.50	0.002	-53.98
2.500	0.404	-7.87	18.50	0.029	-30.75	42.00	0.033	-29.63	65.50	0.041	-27.74	89.00	0.001	-60.00
2.750	0.380	-8.40	19.00	0.043	-27.33	42.50	0.030	-30.46	66.00	0.038	-28.40	89.50	0.001	-60.00
3.000	0.371	-8.61	19.50	0.048	-26.38	43.00	0.020	-33.98	66.50	0.031	-30.17	90.00	0.000	---
3.250	0.358	-8.92	20.00	0.036	-28.87	43.50	0.015	-36.48	67.00	0.022	-33.15			
3.500	0.330	-9.63	20.50	0.026	-31.70	44.00	0.023	-32.77	67.50	0.013	-37.72			
3.750	0.285	-10.90	21.00	0.038	-28.40	44.50	0.032	-29.90	68.00	0.011	-39.17			
4.000	0.233	-12.65	21.50	0.044	-27.13	45.00	0.032	-29.90	68.50	0.019	-34.42			
4.250	0.187	-14.56	22.00	0.034	-29.37	45.50	0.025	-32.04	69.00	0.029	-30.75			
4.500	0.162	-15.81	22.50	0.024	-32.40	46.00	0.015	-36.48	69.50	0.036	-28.87			
4.750	0.167	-15.55	23.00	0.033	-29.63	46.50	0.018	-34.89	70.00	0.042	-27.54			
5.000	0.181	-14.85	23.50	0.041	-27.74	47.00	0.028	-31.06	70.50	0.044	-27.13			
5.250	0.190	-14.42	24.00	0.035	-29.12	47.50	0.033	-29.63	71.00	0.044	-27.13			
5.500	0.184	-14.70	24.50	0.023	-32.77	48.00	0.031	-30.17	71.50	0.040	-27.96			
5.750	0.163	-15.76	25.00	0.029	-30.75	48.50	0.022	-33.15	72.00	0.035	-29.12			
6.000	0.134	-17.46	25.50	0.039	-28.18	49.00	0.014	-37.08	72.50	0.028	-31.06			
6.250	0.108	-19.33	26.00	0.036	-28.87	49.50	0.020	-33.98	73.00	0.019	-34.42			
6.500	0.097	-20.26	26.50	0.024	-32.40	50.00	0.029	-30.75	73.50	0.011	-39.17			