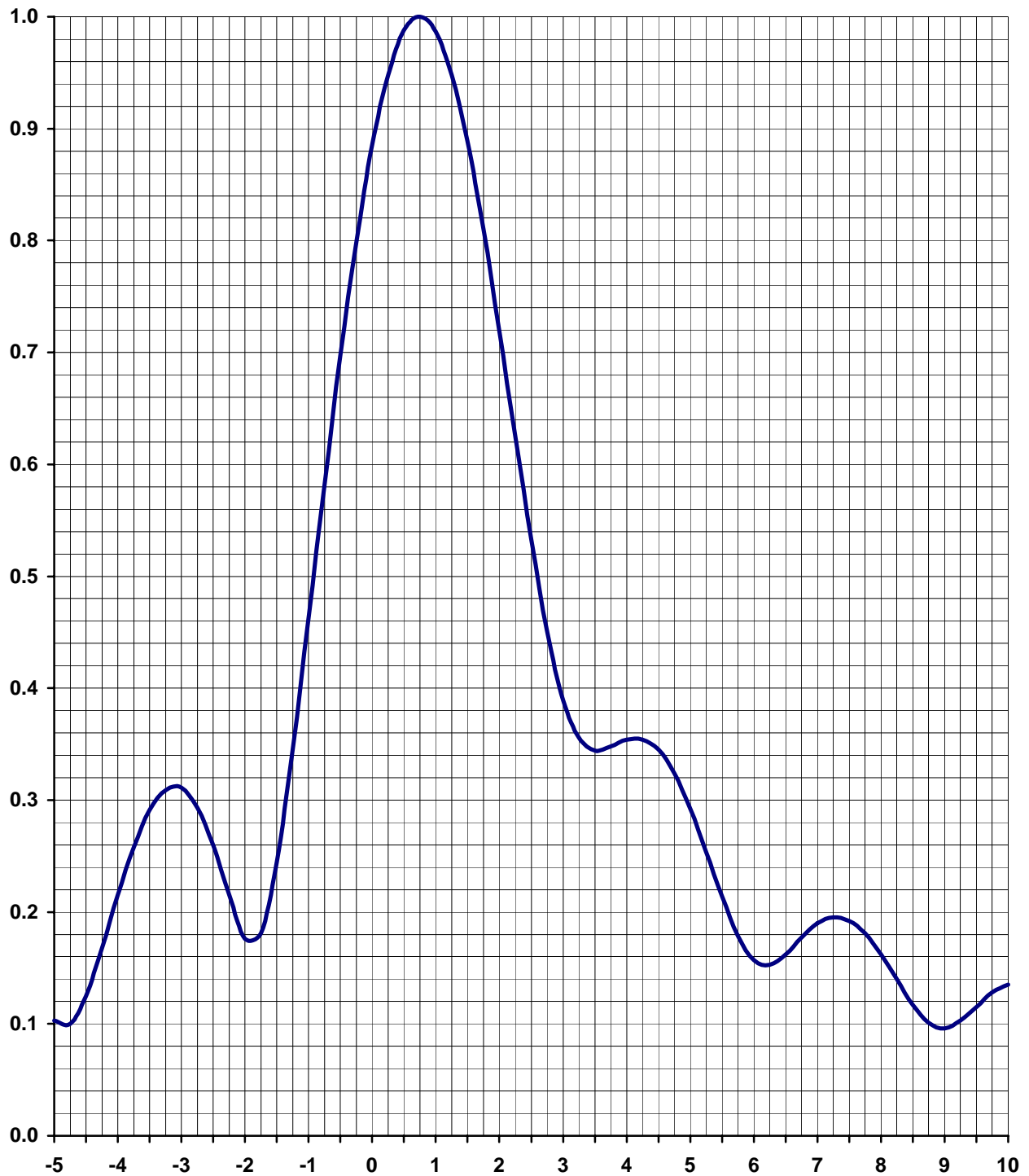


**ELEVATION PATTERN****TYPE:****ATW20H3H****Frequency:****31 (DTV)****Directivity:****Numeric****dBd****Location:****Wilmington, DE****Main Lobe:****20.00****13.01****Beam Tilt:****0.75****Horizontal:****15.66****11.95****Polarization:****Horizontal**

## TABULATED DATA FOR ELEVATION PATTERN

### ATW20H3H

-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	0.103	-19.74	6.75	0.177	-15.04	27.00	0.042	-27.54	50.50	0.038	-28.40	74.00	0.069	-23.22
-4.750	0.100	-20.00	7.00	0.190	-14.42	27.50	0.054	-25.35	51.00	0.028	-31.06	74.50	0.065	-23.74
-4.500	0.125	-18.06	7.25	0.195	-14.20	28.00	0.057	-24.88	51.50	0.022	-33.15	75.00	0.061	-24.29
-4.250	0.168	-15.49	7.50	0.192	-14.33	28.50	0.051	-25.85	52.00	0.027	-31.37	75.50	0.055	-25.19
-4.000	0.215	-13.35	7.75	0.181	-14.85	29.00	0.038	-28.40	52.50	0.037	-28.64	76.00	0.049	-26.20
-3.750	0.258	-11.77	8.00	0.162	-15.81	29.50	0.030	-30.46	53.00	0.047	-26.56	76.50	0.042	-27.54
-3.500	0.291	-10.72	8.25	0.140	-17.08	30.00	0.036	-28.87	53.50	0.053	-25.51	77.00	0.035	-29.12
-3.250	0.309	-10.20	8.50	0.117	-18.64	30.50	0.048	-26.38	54.00	0.054	-25.35	77.50	0.028	-31.06
-3.000	0.311	-10.14	8.75	0.101	-19.91	31.00	0.054	-25.35	54.50	0.050	-26.02	78.00	0.021	-33.56
-2.750	0.293	-10.66	9.00	0.096	-20.35	31.50	0.051	-25.85	55.00	0.042	-27.54	78.50	0.015	-36.48
-2.500	0.260	-11.70	9.25	0.103	-19.74	32.00	0.041	-27.74	55.50	0.031	-30.17	79.00	0.010	-40.00
-2.250	0.215	-13.35	9.50	0.115	-18.79	32.50	0.030	-30.46	56.00	0.022	-33.15	79.50	0.007	-43.10
-2.000	0.176	-15.09	9.75	0.128	-17.86	33.00	0.029	-30.75	56.50	0.023	-32.77	80.00	0.009	-40.92
-1.750	0.181	-14.85	10.00	0.135	-17.39	33.50	0.040	-27.96	57.00	0.032	-29.90	80.50	0.012	-38.42
-1.500	0.244	-12.25	10.50	0.132	-17.59	34.00	0.049	-26.20	57.50	0.042	-27.54	81.00	0.016	-35.92
-1.250	0.346	-9.22	11.00	0.106	-19.49	34.50	0.052	-25.68	58.00	0.051	-25.85	81.50	0.019	-34.42
-1.000	0.462	-6.71	11.50	0.076	-22.38	35.00	0.046	-26.74	58.50	0.057	-24.88	82.00	0.022	-33.15
-0.750	0.582	-4.70	12.00	0.074	-22.62	35.50	0.035	-29.12	59.00	0.058	-24.73	82.50	0.024	-32.40
-0.500	0.697	-3.14	12.50	0.094	-20.54	36.00	0.026	-31.70	59.50	0.055	-25.19	83.00	0.025	-32.04
-0.250	0.799	-1.95	13.00	0.106	-19.49	36.50	0.030	-30.46	60.00	0.049	-26.20	83.50	0.026	-31.70
0.000	0.885	-1.06	13.50	0.098	-20.18	37.00	0.041	-27.74	60.50	0.039	-28.18	84.00	0.026	-31.70
0.250	0.948	-0.46	14.00	0.075	-22.50	37.50	0.049	-26.20	61.00	0.029	-30.75	84.50	0.026	-31.70
0.500	0.988	-0.10	14.50	0.056	-25.04	38.00	0.050	-26.02	61.50	0.021	-33.56	85.00	0.025	-32.04
0.750	1.000	0.00	15.00	0.064	-23.88	38.50	0.044	-27.13	62.00	0.022	-33.15	85.50	0.024	-32.40
1.000	0.987	-0.11	15.50	0.081	-21.83	39.00	0.033	-29.63	62.50	0.031	-30.17	86.00	0.022	-33.15
1.250	0.948	-0.46	16.00	0.088	-21.11	39.50	0.025	-32.04	63.00	0.041	-27.74	86.50	0.020	-33.98
1.500	0.889	-1.02	16.50	0.077	-22.27	40.00	0.028	-31.06	63.50	0.051	-25.85	87.00	0.018	-34.89
1.750	0.810	-1.83	17.00	0.057	-24.88	40.50	0.039	-28.18	64.00	0.058	-24.73	87.50	0.015	-36.48
2.000	0.720	-2.85	17.50	0.046	-26.74	41.00	0.047	-26.56	64.50	0.063	-24.01	88.00	0.013	-37.72
2.250	0.625	-4.08	18.00	0.058	-24.73	41.50	0.050	-26.02	65.00	0.064	-23.88	88.50	0.010	-40.00
2.500	0.532	-5.48	18.50	0.072	-22.85	42.00	0.046	-26.74	65.50	0.062	-24.15	89.00	0.006	-44.44
2.750	0.451	-6.92	19.00	0.075	-22.50	42.50	0.036	-28.87	66.00	0.057	-24.88	89.50	0.003	-50.46
3.000	0.389	-8.20	19.50	0.064	-23.88	43.00	0.026	-31.70	66.50	0.049	-26.20	90.00	0.000	---
3.250	0.356	-8.97	20.00	0.047	-26.56	43.50	0.024	-32.40	67.00	0.040	-27.96			
3.500	0.344	-9.27	20.50	0.041	-27.74	44.00	0.033	-29.63	67.50	0.029	-30.75			
3.750	0.348	-9.17	21.00	0.053	-25.51	44.50	0.044	-27.13	68.00	0.019	-34.42			
4.000	0.354	-9.02	21.50	0.065	-23.74	45.00	0.050	-26.02	68.50	0.015	-36.48			
4.250	0.354	-9.02	22.00	0.066	-23.61	45.50	0.050	-26.02	69.00	0.020	-33.98			
4.500	0.345	-9.24	22.50	0.056	-25.04	46.00	0.044	-27.13	69.50	0.030	-30.46			
4.750	0.324	-9.79	23.00	0.041	-27.74	46.50	0.034	-29.37	70.00	0.040	-27.96			
5.000	0.292	-10.69	23.50	0.036	-28.87	47.00	0.024	-32.40	70.50	0.050	-26.02			
5.250	0.254	-11.90	24.00	0.048	-26.38	47.50	0.024	-32.40	71.00	0.058	-24.73			
5.500	0.214	-13.39	24.50	0.059	-24.58	48.00	0.034	-29.37	71.50	0.064	-23.88			
5.750	0.179	-14.94	25.00	0.061	-24.29	48.50	0.044	-27.13	72.00	0.069	-23.22			
6.000	0.157	-16.08	25.50	0.052	-25.68	49.00	0.050	-26.02	72.50	0.071	-22.97			
6.250	0.153	-16.31	26.00	0.038	-28.40	49.50	0.051	-25.85	73.00	0.072	-22.85			
6.500	0.162	-15.81	26.50	0.033	-29.63	50.00	0.047	-26.56	73.50	0.071	-22.97			