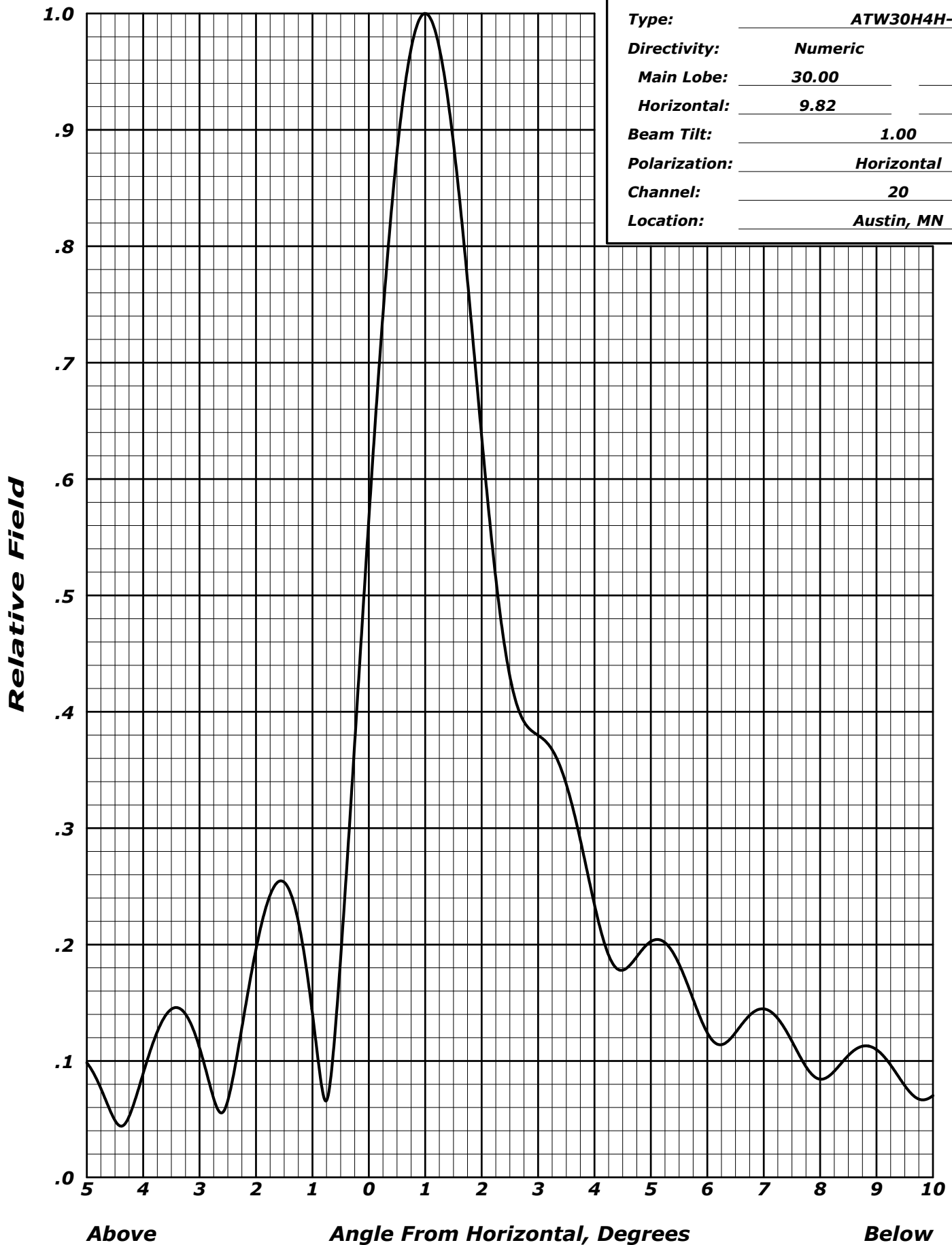


ANDREW
ELEVATION PATTERN

Type:	ATW30H4H-HSO-20H	
Directivity:	Numeric	dBd
Main Lobe:	30.00	(14.77)
Horizontal:	9.82	(9.92)
Beam Tilt:	1.00	
Polarization:	Horizontal	
Channel:	20	
Location:	Austin, MN	





TABULATED DATA FOR ELEVATION PATTERN
TYPE : ATW30H4H-HSO-20H

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-5 To 10			10 To 90								
In 0.25 Increments			In 0.5 Increments								
-5.00	0.098	-20.13	8.75	0.113	-18.96	35.00	0.015	-36.37	62.50	0.012	-38.46
-4.75	0.076	-22.34	9.00	0.110	-19.20	35.50	0.024	-32.48	63.00	0.021	-33.70
-4.50	0.049	-26.21	9.25	0.096	-20.31	36.00	0.030	-30.48	63.50	0.027	-31.50
-4.25	0.052	-25.64	9.50	0.079	-22.07	36.50	0.025	-31.93	64.00	0.029	-30.87
-4.00	0.089	-20.98	9.75	0.067	-23.45	37.00	0.015	-36.42	64.50	0.026	-31.56
-3.75	0.125	-18.06	10.00	0.070	-23.07	37.50	0.018	-34.81	65.00	0.021	-33.72
-3.50	0.144	-16.80	10.50	0.091	-20.82	38.00	0.027	-31.29	65.50	0.012	-38.28
-3.25	0.140	-17.06	11.00	0.083	-21.60	38.50	0.028	-31.16	66.00	0.004	-48.65
-3.00	0.111	-19.07	11.50	0.057	-24.87	39.00	0.019	-34.44	66.50	0.009	-40.85
-2.75	0.068	-23.38	12.00	0.065	-23.69	39.50	0.013	-37.47	67.00	0.018	-35.03
-2.50	0.066	-23.62	12.50	0.078	-22.17	40.00	0.022	-33.07	67.50	0.024	-32.26
-2.25	0.129	-17.80	13.00	0.062	-24.16	40.50	0.028	-31.04	68.00	0.028	-30.98
-2.00	0.196	-14.15	13.50	0.046	-26.76	41.00	0.024	-32.25	68.50	0.029	-30.76
-1.75	0.243	-12.30	14.00	0.061	-24.29	41.50	0.015	-36.60	69.00	0.027	-31.48
-1.50	0.254	-11.92	14.50	0.064	-23.86	42.00	0.015	-36.33	69.50	0.022	-33.27
-1.25	0.220	-13.16	15.00	0.045	-26.90	42.50	0.025	-32.12	70.00	0.015	-36.64
-1.00	0.141	-17.02	15.50	0.042	-27.60	43.00	0.028	-31.01	70.50	0.006	-43.76
-0.75	0.066	-23.62	16.00	0.057	-24.95	43.50	0.023	-32.92	71.00	0.002	-53.12
-0.50	0.188	-14.50	16.50	0.052	-25.64	44.00	0.013	-37.60	71.50	0.011	-39.51
-0.25	0.373	-8.55	17.00	0.035	-29.22	44.50	0.016	-35.85	72.00	0.018	-34.90
0.00	0.572	-4.95	17.50	0.040	-27.90	45.00	0.025	-31.90	72.50	0.024	-32.41
0.25	0.741	-2.60	18.00	0.051	-25.87	45.50	0.028	-30.98	73.00	0.028	-31.02
0.50	0.881	-1.10	18.50	0.042	-27.60	46.00	0.023	-32.88	73.50	0.030	-30.36
0.75	0.970	-0.26	19.00	0.029	-30.81	46.50	0.013	-37.57	74.00	0.031	-30.28
1.00	1.000	0.00	19.50	0.040	-28.04	47.00	0.015	-36.50	74.50	0.029	-30.72
1.25	0.970	-0.26	20.00	0.045	-26.89	47.50	0.024	-32.24	75.00	0.026	-31.67
1.50	0.889	-1.03	20.50	0.033	-29.56	48.00	0.029	-30.86	75.50	0.022	-33.22
1.75	0.770	-2.27	21.00	0.026	-31.61	48.50	0.025	-32.06	76.00	0.017	-35.54
2.00	0.637	-3.92	21.50	0.039	-28.24	49.00	0.016	-36.03	76.50	0.011	-39.05
2.25	0.515	-5.76	22.00	0.040	-27.86	49.50	0.012	-38.22	77.00	0.006	-44.71
2.50	0.431	-7.32	22.50	0.028	-31.20	50.00	0.021	-33.60	77.50	0.004	-48.79
2.75	0.392	-8.14	23.00	0.026	-31.81	50.50	0.028	-31.14	78.00	0.007	-42.51
3.00	0.380	-8.41	23.50	0.038	-28.51	51.00	0.028	-31.14	78.50	0.012	-38.34
3.25	0.367	-8.70	24.00	0.037	-28.73	51.50	0.021	-33.58	79.00	0.016	-35.78
3.50	0.338	-9.43	24.50	0.024	-32.45	52.00	0.012	-38.49	79.50	0.020	-34.11
3.75	0.290	-10.76	25.00	0.025	-32.01	52.50	0.014	-37.12	80.00	0.022	-33.00
4.00	0.234	-12.60	25.50	0.036	-28.89	53.00	0.023	-32.72	80.50	0.024	-32.28
4.25	0.191	-14.38	26.00	0.034	-29.45	53.50	0.028	-30.93	81.00	0.025	-31.87
4.50	0.178	-14.99	26.50	0.021	-33.35	54.00	0.027	-31.32	81.50	0.026	-31.70
4.75	0.190	-14.44	27.00	0.024	-32.35	54.50	0.020	-33.99	82.00	0.026	-31.73
5.00	0.203	-13.87	27.50	0.034	-29.31	55.00	0.011	-39.26	82.50	0.025	-31.94
5.25	0.202	-13.91	28.00	0.032	-29.94	55.50	0.013	-38.03	83.00	0.024	-32.30
5.50	0.183	-14.74	28.50	0.021	-33.75	56.00	0.022	-33.26	83.50	0.023	-32.80
5.75	0.153	-16.31	29.00	0.023	-32.68	56.50	0.028	-31.12	84.00	0.021	-33.43
6.00	0.124	-18.12	29.50	0.033	-29.63	57.00	0.028	-31.00	84.50	0.020	-34.18
6.25	0.114	-18.86	30.00	0.031	-30.12	57.50	0.023	-32.82	85.00	0.018	-35.06
6.50	0.124	-18.11	30.50	0.020	-34.01	58.00	0.014	-37.25	85.50	0.016	-36.06
6.75	0.139	-17.13	31.00	0.021	-33.75	58.50	0.008	-42.05	86.00	0.014	-37.19
7.00	0.145	-16.79	31.50	0.031	-30.21	59.00	0.015	-36.25	86.50	0.012	-38.48
7.25	0.136	-17.30	32.00	0.031	-30.11	59.50	0.024	-32.45	87.00	0.010	-39.95
7.50	0.117	-18.64	32.50	0.021	-33.44	60.00	0.028	-30.95	87.50	0.008	-41.67
7.75	0.095	-20.44	33.00	0.018	-34.80	60.50	0.028	-31.13	88.00	0.007	-43.72
8.00	0.084	-21.48	33.50	0.028	-31.07	61.00	0.022	-32.99	88.50	0.005	-46.32
8.25	0.091	-20.80	34.00	0.031	-30.24	61.50	0.014	-37.28	89.00	0.003	-49.92
8.50	0.105	-19.60	34.50	0.023	-32.93	62.00	0.006	-44.32	89.50	0.002	-55.99