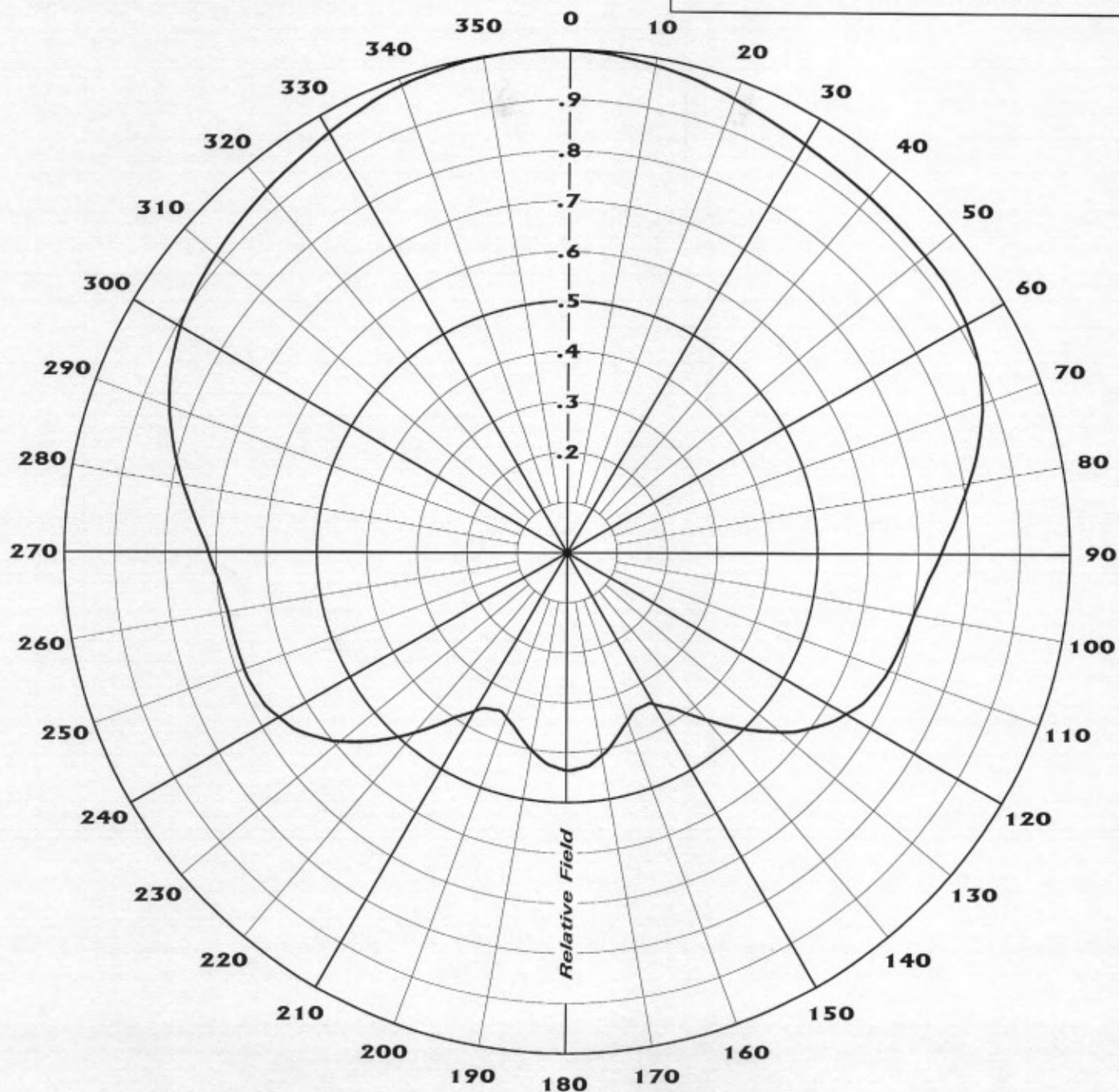




ANDREW

AZIMUTH PATTERN

Type:	CH45AZ-H-MODEL-C3	
	Numeric	dBd
Directivity:	1.76	(2.46)
Peak(s) At:		
Polarization:	Horizontal	
Channel:	NTSC 45 & DTV 46	
Location:	Houston, TX	



CH45AZ-H-MODEL-C3 TOP MOUNT
ANGLE FIELD

0.0	0.999	63.0	0.907	126.0	0.597	189.0	0.406	252.0	0.685	315.0	0.929
1.0	0.999	64.0	0.904	127.0	0.589	190.0	0.401	253.0	0.685	316.0	0.931
2.0	0.998	65.0	0.901	128.0	0.580	191.0	0.397	254.0	0.685	317.0	0.933
3.0	0.997	66.0	0.897	129.0	0.568	192.0	0.391	255.0	0.685	318.0	0.935
4.0	0.995	67.0	0.892	130.0	0.556	193.0	0.385	256.0	0.685	319.0	0.937
5.0	0.994	68.0	0.887	131.0	0.545	194.0	0.379	257.0	0.685	320.0	0.938
6.0	0.992	69.0	0.882	132.0	0.533	195.0	0.374	258.0	0.686	321.0	0.940
7.0	0.990	70.0	0.877	133.0	0.521	196.0	0.368	259.0	0.686	322.0	0.942
8.0	0.988	71.0	0.873	134.0	0.509	197.0	0.363	260.0	0.686	323.0	0.945
9.0	0.986	72.0	0.866	135.0	0.497	198.0	0.359	261.0	0.688	324.0	0.947
10.0	0.985	73.0	0.860	136.0	0.485	199.0	0.355	262.0	0.690	325.0	0.949
11.0	0.983	74.0	0.853	137.0	0.473	200.0	0.352	263.0	0.692	326.0	0.951
12.0	0.981	75.0	0.847	138.0	0.460	201.0	0.348	264.0	0.694	327.0	0.953
13.0	0.978	76.0	0.840	139.0	0.448	202.0	0.345	265.0	0.696	328.0	0.956
14.0	0.976	77.0	0.834	140.0	0.437	203.0	0.344	266.0	0.699	329.0	0.958
15.0	0.974	78.0	0.826	141.0	0.426	204.0	0.345	267.0	0.703	330.0	0.961
16.0	0.972	79.0	0.819	142.0	0.415	205.0	0.347	268.0	0.707	331.0	0.964
17.0	0.969	80.0	0.811	143.0	0.404	206.0	0.349	269.0	0.711	332.0	0.966
18.0	0.967	81.0	0.804	144.0	0.393	207.0	0.350	270.0	0.715	333.0	0.969
19.0	0.964	82.0	0.797	145.0	0.382	208.0	0.352	271.0	0.719	334.0	0.972
20.0	0.962	83.0	0.790	146.0	0.375	209.0	0.359	272.0	0.724	335.0	0.974
21.0	0.959	84.0	0.783	147.0	0.368	210.0	0.367	273.0	0.731	336.0	0.977
22.0	0.957	85.0	0.776	148.0	0.362	211.0	0.375	274.0	0.737	337.0	0.979
23.0	0.955	86.0	0.769	149.0	0.355	212.0	0.383	275.0	0.744	338.0	0.981
24.0	0.953	87.0	0.763	150.0	0.349	213.0	0.391	276.0	0.750	339.0	0.984
25.0	0.950	88.0	0.756	151.0	0.343	214.0	0.399	277.0	0.756	340.0	0.986
26.0	0.948	89.0	0.750	152.0	0.343	215.0	0.411	278.0	0.763	341.0	0.987
27.0	0.946	90.0	0.745	153.0	0.343	216.0	0.423	279.0	0.770	342.0	0.989
28.0	0.945	91.0	0.739	154.0	0.343	217.0	0.435	280.0	0.777	343.0	0.990
29.0	0.943	92.0	0.734	155.0	0.343	218.0	0.447	281.0	0.785	344.0	0.992
30.0	0.941	93.0	0.728	156.0	0.343	219.0	0.459	282.0	0.792	345.0	0.993
31.0	0.939	94.0	0.723	157.0	0.345	220.0	0.471	283.0	0.799	346.0	0.994
32.0	0.938	95.0	0.719	158.0	0.349	221.0	0.483	284.0	0.806	347.0	0.996
33.0	0.937	96.0	0.715	159.0	0.354	222.0	0.496	285.0	0.812	348.0	0.997
34.0	0.935	97.0	0.712	160.0	0.358	223.0	0.508	286.0	0.819	349.0	0.998
35.0	0.934	98.0	0.708	161.0	0.363	224.0	0.521	287.0	0.826	350.0	0.998
36.0	0.933	99.0	0.704	162.0	0.368	225.0	0.534	288.0	0.832	351.0	0.999
37.0	0.932	100.0	0.702	163.0	0.373	226.0	0.545	289.0	0.839	352.0	0.999
38.0	0.931	101.0	0.700	164.0	0.379	227.0	0.556	290.0	0.845	353.0	1.000
39.0	0.930	102.0	0.698	165.0	0.385	228.0	0.567	291.0	0.850	354.0	1.000
40.0	0.930	103.0	0.696	166.0	0.391	229.0	0.578	292.0	0.856	355.0	1.000
41.0	0.929	104.0	0.694	167.0	0.397	230.0	0.589	293.0	0.862	356.0	1.000
42.0	0.929	105.0	0.692	168.0	0.403	231.0	0.600	294.0	0.867	357.0	1.000
43.0	0.928	106.0	0.690	169.0	0.407	232.0	0.609	295.0	0.872	358.0	1.000
44.0	0.928	107.0	0.688	170.0	0.412	233.0	0.617	296.0	0.877	359.0	1.000
45.0	0.928	108.0	0.687	171.0	0.416	234.0	0.625	297.0	0.881	360.0	1.000
46.0	0.927	109.0	0.685	172.0	0.420	235.0	0.633	298.0	0.885		
47.0	0.927	110.0	0.683	173.0	0.424	236.0	0.641	299.0	0.889		
48.0	0.927	111.0	0.681	174.0	0.428	237.0	0.648	300.0	0.893		
49.0	0.926	112.0	0.678	175.0	0.430	238.0	0.653	301.0	0.896		
50.0	0.926	113.0	0.675	176.0	0.431	239.0	0.657	302.0	0.899		
51.0	0.926	114.0	0.672	177.0	0.433	240.0	0.662	303.0	0.901		
52.0	0.925	115.0	0.669	178.0	0.434	241.0	0.666	304.0	0.904		
53.0	0.925	116.0	0.666	179.0	0.436	242.0	0.671	305.0	0.906		
54.0	0.924	117.0	0.662	180.0	0.435	243.0	0.674	306.0	0.909		
55.0	0.923	118.0	0.656	181.0	0.433	244.0	0.676	307.0	0.911		
56.0	0.921	119.0	0.650	182.0	0.431	245.0	0.678	308.0	0.914		
57.0	0.920	120.0	0.644	183.0	0.429	246.0	0.680	309.0	0.916		
58.0	0.918	121.0	0.638	184.0	0.426	247.0	0.682	310.0	0.918		
59.0	0.917	122.0	0.632	185.0	0.424	248.0	0.683	311.0	0.920		
60.0	0.914	123.0	0.624	186.0	0.420	249.0	0.684	312.0	0.923		
61.0	0.912	124.0	0.615	187.0	0.415	250.0	0.684	313.0	0.925		
62.0	0.909	125.0	0.606	188.0	0.411	251.0	0.684	314.0	0.927		



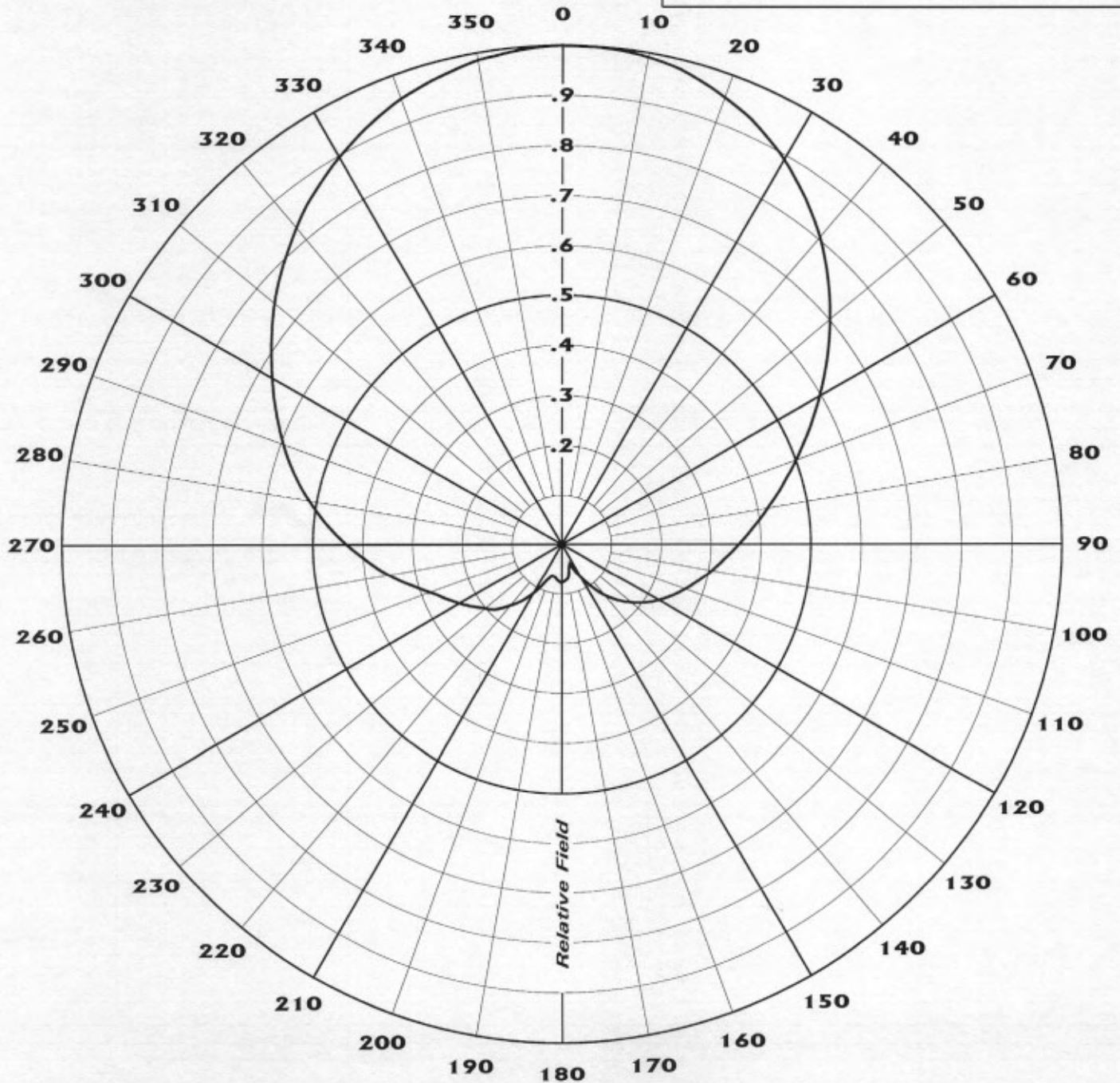
Andrew Corporation
10500 W. 153rd Street
Orland Park, Illinois U.S.A. 60462

AG040499-453 Rev. D -9-



ANDREW AZIMUTH PATTERN

Type:	CH45AZ-V-MODEL	
	Numeric	dBd
Directivity:	3.12	(4.93)
Peak(s) At:		
Polarization:	Vertical	
Channel:	NTSC 45 & DTV 46	
Location:	Houston, TX	



CH45AZ-V-MODEL TOP MOUNT V-POL AZIMUTH

ANGLE FIELD

0.0	1.000	63.0	0.567	126.0	0.201	189.0	0.070	252.0	0.295	315.0	0.792
1.0	1.000	64.0	0.557	127.0	0.197	190.0	0.069	253.0	0.302	316.0	0.800
2.0	0.999	65.0	0.548	128.0	0.192	191.0	0.068	254.0	0.308	317.0	0.807
3.0	0.999	66.0	0.538	129.0	0.188	192.0	0.067	255.0	0.315	318.0	0.815
4.0	0.999	67.0	0.528	130.0	0.183	193.0	0.067	256.0	0.323	319.0	0.823
5.0	0.998	68.0	0.519	131.0	0.178	194.0	0.066	257.0	0.330	320.0	0.830
6.0	0.998	69.0	0.510	132.0	0.174	195.0	0.066	258.0	0.338	321.0	0.838
7.0	0.996	70.0	0.501	133.0	0.169	196.0	0.066	259.0	0.346	322.0	0.846
8.0	0.995	71.0	0.492	134.0	0.164	197.0	0.065	260.0	0.353	323.0	0.853
9.0	0.993	72.0	0.483	135.0	0.160	198.0	0.066	261.0	0.361	324.0	0.860
10.0	0.991	73.0	0.474	136.0	0.155	199.0	0.069	262.0	0.369	325.0	0.866
11.0	0.989	74.0	0.466	137.0	0.150	200.0	0.071	263.0	0.376	326.0	0.872
12.0	0.986	75.0	0.458	138.0	0.144	201.0	0.074	264.0	0.384	327.0	0.879
13.0	0.984	76.0	0.450	139.0	0.139	202.0	0.076	265.0	0.391	328.0	0.885
14.0	0.981	77.0	0.443	140.0	0.134	203.0	0.079	266.0	0.399	329.0	0.891
15.0	0.976	78.0	0.435	141.0	0.129	204.0	0.083	267.0	0.408	330.0	0.897
16.0	0.972	79.0	0.427	142.0	0.123	205.0	0.088	268.0	0.416	331.0	0.903
17.0	0.967	80.0	0.420	143.0	0.116	206.0	0.093	269.0	0.424	332.0	0.909
18.0	0.963	81.0	0.413	144.0	0.110	207.0	0.098	270.0	0.433	333.0	0.914
19.0	0.958	82.0	0.406	145.0	0.104	208.0	0.103	271.0	0.441	334.0	0.920
20.0	0.953	83.0	0.399	146.0	0.098	209.0	0.108	272.0	0.449	335.0	0.926
21.0	0.948	84.0	0.392	147.0	0.092	210.0	0.113	273.0	0.458	336.0	0.931
22.0	0.943	85.0	0.386	148.0	0.086	211.0	0.119	274.0	0.466	337.0	0.936
23.0	0.938	86.0	0.380	149.0	0.081	212.0	0.124	275.0	0.474	338.0	0.941
24.0	0.933	87.0	0.374	150.0	0.076	213.0	0.129	276.0	0.482	339.0	0.946
25.0	0.926	88.0	0.368	151.0	0.070	214.0	0.134	277.0	0.491	340.0	0.951
26.0	0.919	89.0	0.362	152.0	0.065	215.0	0.139	278.0	0.499	341.0	0.954
27.0	0.912	90.0	0.356	153.0	0.061	216.0	0.143	279.0	0.507	342.0	0.958
28.0	0.906	91.0	0.351	154.0	0.057	217.0	0.148	280.0	0.515	343.0	0.962
29.0	0.899	92.0	0.345	155.0	0.053	218.0	0.152	281.0	0.523	344.0	0.965
30.0	0.891	93.0	0.340	156.0	0.049	219.0	0.157	282.0	0.531	345.0	0.968
31.0	0.883	94.0	0.335	157.0	0.045	220.0	0.161	283.0	0.540	346.0	0.972
32.0	0.875	95.0	0.329	158.0	0.042	221.0	0.166	284.0	0.547	347.0	0.975
33.0	0.866	96.0	0.324	159.0	0.043	222.0	0.171	285.0	0.555	348.0	0.978
34.0	0.858	97.0	0.320	160.0	0.044	223.0	0.175	286.0	0.563	349.0	0.982
35.0	0.850	98.0	0.315	161.0	0.046	224.0	0.180	287.0	0.571	350.0	0.985
36.0	0.841	99.0	0.310	162.0	0.047	225.0	0.185	288.0	0.579	351.0	0.987
37.0	0.832	100.0	0.306	163.0	0.048	226.0	0.190	289.0	0.587	352.0	0.988
38.0	0.823	101.0	0.301	164.0	0.051	227.0	0.193	290.0	0.595	353.0	0.991
39.0	0.814	102.0	0.297	165.0	0.054	228.0	0.195	291.0	0.602	354.0	0.993
40.0	0.805	103.0	0.293	166.0	0.058	229.0	0.198	292.0	0.610	355.0	0.994
41.0	0.795	104.0	0.289	167.0	0.061	230.0	0.201	293.0	0.618	356.0	0.996
42.0	0.785	105.0	0.284	168.0	0.065	231.0	0.204	294.0	0.625	357.0	0.998
43.0	0.775	106.0	0.280	169.0	0.068	232.0	0.207	295.0	0.633	358.0	0.999
44.0	0.765	107.0	0.276	170.0	0.069	233.0	0.211	296.0	0.641	359.0	1.000
45.0	0.754	108.0	0.272	171.0	0.070	234.0	0.215	297.0	0.648	360.0	1.000
46.0	0.744	109.0	0.268	172.0	0.071	235.0	0.219	298.0	0.656		
47.0	0.733	110.0	0.264	173.0	0.072	236.0	0.223	299.0	0.664		
48.0	0.723	111.0	0.261	174.0	0.073	237.0	0.227	300.0	0.672		
49.0	0.712	112.0	0.257	175.0	0.074	238.0	0.230	301.0	0.680		
50.0	0.702	113.0	0.253	176.0	0.074	239.0	0.234	302.0	0.688		
51.0	0.691	114.0	0.249	177.0	0.075	240.0	0.238	303.0	0.696		
52.0	0.681	115.0	0.245	178.0	0.076	241.0	0.242	304.0	0.704		
53.0	0.670	116.0	0.241	179.0	0.077	242.0	0.246	305.0	0.712		
54.0	0.659	117.0	0.237	180.0	0.078	243.0	0.250	306.0	0.720		
55.0	0.649	118.0	0.233	181.0	0.078	244.0	0.254	307.0	0.728		
56.0	0.638	119.0	0.229	182.0	0.077	245.0	0.258	308.0	0.737		
57.0	0.628	120.0	0.226	183.0	0.076	246.0	0.263	309.0	0.745		
58.0	0.618	121.0	0.222	184.0	0.075	247.0	0.267	310.0	0.753		
59.0	0.607	122.0	0.218	185.0	0.074	248.0	0.271	311.0	0.762		
60.0	0.597	123.0	0.214	186.0	0.073	249.0	0.276	312.0	0.769		
61.0	0.587	124.0	0.210	187.0	0.072	250.0	0.283	313.0	0.777		
62.0	0.577	125.0	0.205	188.0	0.071	251.0	0.289	314.0	0.785		



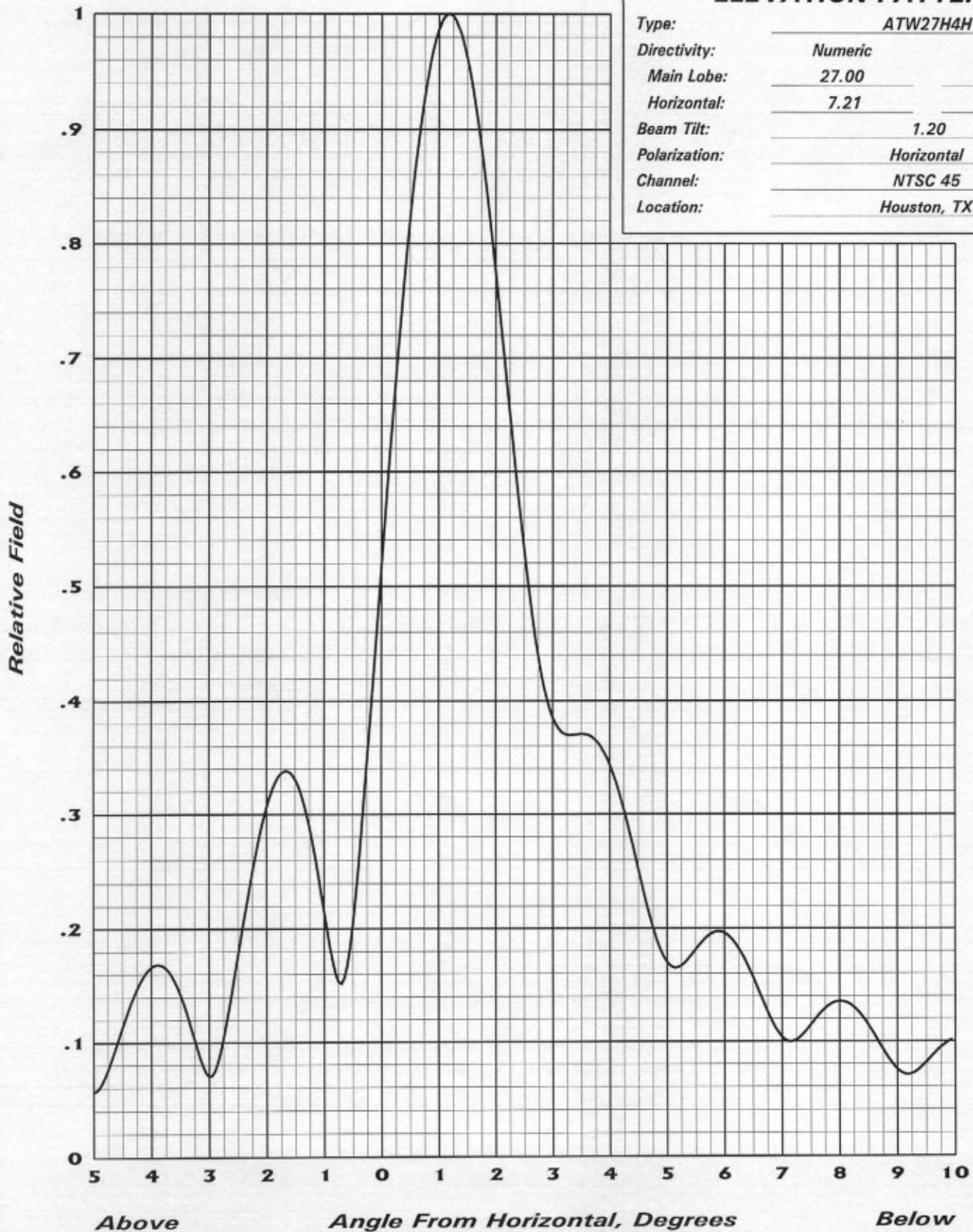
Andrew Corporation
10500 W. 153rd Street
Orland Park, Illinois U.S.A. 60462

AG040499-453 Rev. D -11-



ANDREW ELEVATION PATTERN

Type:	ATW27H4H	
Directivity:	Numeric	dBd
Main Lobe:	27.00	(14.31)
Horizontal:	7.21	(8.58)
Beam Tilt:	1.20	
Polarization:	Horizontal	
Channel:	NTSC 45	
Location:	Houston, TX	



TABULATED DATA FOR ELEVATION PATTERN
TYPE ATW27H4H 1.20 DEGREES OF ELECTRICAL TILT

ANGLE FIELD dB -5° TO 10° IN 0.2° INCREMENTS			ANGLE FIELD dB 10° TO 90° IN 0.5° INCREMENTS			ANGLE FIELD dB			ANGLE FIELD dB		
-5.0	0.057	-24.93	7.0	0.104	-19.67	32.5	0.029	-30.74	62.5	0.022	-33.09
-4.8	0.070	-23.15	7.2	0.100	-19.98	33.0	0.019	-34.38	63.0	0.017	-35.28
-4.6	0.098	-20.18	7.4	0.108	-19.31	33.5	0.023	-32.68	63.5	0.012	-38.76
-4.4	0.128	-17.85	7.6	0.121	-18.36	34.0	0.033	-29.70	64.0	0.008	-41.55
-4.2	0.152	-16.34	7.8	0.131	-17.65	34.5	0.034	-29.33	64.5	0.011	-39.05
-4.0	0.166	-15.58	8.0	0.135	-17.39	35.0	0.026	-31.62	65.0	0.016	-35.83
-3.8	0.167	-15.53	8.2	0.132	-17.60	35.5	0.018	-35.06	65.5	0.020	-33.82
-3.6	0.154	-16.24	8.4	0.122	-18.31	36.0	0.023	-32.66	66.0	0.023	-32.84
-3.4	0.128	-17.87	8.6	0.106	-19.49	36.5	0.032	-29.85	66.5	0.023	-32.69
-3.2	0.094	-20.59	8.8	0.089	-21.03	37.0	0.033	-29.56	67.0	0.022	-33.31
-3.0	0.070	-23.10	9.0	0.075	-22.48	37.5	0.026	-31.78	67.5	0.018	-34.74
-2.8	0.092	-20.73	9.2	0.071	-23.01	38.0	0.017	-35.34	68.0	0.014	-37.13
-2.6	0.146	-16.71	9.4	0.076	-22.34	38.5	0.021	-33.47	68.5	0.009	-40.79
-2.4	0.207	-13.68	9.6	0.087	-21.21	39.0	0.030	-30.51	69.0	0.006	-44.71
-2.2	0.263	-11.61	9.8	0.097	-20.28	39.5	0.032	-29.92	69.5	0.007	-42.96
-2.0	0.307	-10.27	10.0	0.102	-19.80	40.0	0.026	-31.74	70.0	0.011	-39.24
-1.8	0.333	-9.56	10.5	0.092	-20.70	40.5	0.017	-35.37	70.5	0.015	-36.73
-1.6	0.337	-9.45	11.0	0.061	-24.31	41.0	0.019	-34.63	71.0	0.017	-35.22
-1.4	0.317	-9.97	11.5	0.063	-24.02	41.5	0.027	-31.25	71.5	0.019	-34.42
-1.2	0.275	-11.22	12.0	0.084	-21.57	42.0	0.032	-29.98	72.0	0.020	-34.19
-1.0	0.215	-13.35	12.5	0.079	-22.10	42.5	0.028	-30.95	72.5	0.019	-34.45
-0.8	0.160	-15.92	13.0	0.053	-25.59	43.0	0.020	-34.10	73.0	0.018	-35.16
-0.6	0.167	-15.56	13.5	0.049	-26.18	43.5	0.015	-36.32	73.5	0.015	-36.36
-0.4	0.256	-11.85	14.0	0.068	-23.30	44.0	0.022	-33.04	74.0	0.012	-38.11
-0.2	0.381	-8.38	14.5	0.069	-23.26	44.5	0.029	-30.63	74.5	0.009	-40.60
0.0	0.517	-5.73	15.0	0.048	-26.35	45.0	0.030	-30.36	75.0	0.006	-44.25
0.2	0.650	-3.75	15.5	0.040	-27.90	45.5	0.025	-32.17	75.5	0.003	-50.32
0.4	0.769	-2.28	16.0	0.058	-24.76	46.0	0.016	-35.85	76.0	0.001	-59.65
0.6	0.869	-1.22	16.5	0.063	-24.09	46.5	0.015	-36.31	76.5	0.003	-50.56
0.8	0.943	-0.51	17.0	0.047	-26.65	47.0	0.023	-32.72	77.0	0.005	-45.74
1.0	0.987	-0.11	17.5	0.033	-29.55	47.5	0.029	-30.76	77.5	0.007	-43.12
1.2	1.000	0.00	18.0	0.047	-26.48	48.0	0.029	-30.76	78.0	0.008	-41.54
1.4	0.982	-0.16	18.5	0.056	-24.97	48.5	0.023	-32.65	78.5	0.009	-40.59
1.6	0.935	-0.59	19.0	0.046	-26.71	49.0	0.016	-36.13	79.0	0.010	-40.07
1.8	0.863	-1.28	19.5	0.030	-30.39	49.5	0.015	-36.59	79.5	0.010	-39.89
2.0	0.774	-2.23	20.0	0.038	-28.36	50.0	0.022	-33.23	80.0	0.010	-39.98
2.2	0.675	-3.41	20.5	0.050	-25.98	50.5	0.028	-31.17	80.5	0.010	-40.29
2.4	0.577	-4.78	21.0	0.046	-26.76	51.0	0.029	-30.88	81.0	0.009	-40.80
2.6	0.489	-6.21	21.5	0.030	-30.36	51.5	0.024	-32.26	81.5	0.008	-41.48
2.8	0.423	-7.47	22.0	0.030	-30.39	52.0	0.017	-35.32	82.0	0.008	-42.33
3.0	0.385	-8.29	22.5	0.044	-27.19	52.5	0.013	-37.75	82.5	0.007	-43.34
3.2	0.371	-8.62	23.0	0.046	-26.84	53.0	0.018	-35.10	83.0	0.006	-44.50
3.4	0.370	-8.63	23.5	0.033	-29.59	53.5	0.024	-32.30	83.5	0.005	-45.80
3.6	0.370	-8.63	24.0	0.025	-32.20	54.0	0.028	-31.11	84.0	0.004	-47.27
3.8	0.363	-8.81	24.5	0.036	-28.90	54.5	0.027	-31.40	84.5	0.004	-48.90
4.0	0.343	-9.29	25.0	0.043	-27.26	55.0	0.022	-33.20	85.0	0.003	-50.70
4.2	0.312	-10.11	25.5	0.037	-28.70	55.5	0.015	-36.48	85.5	0.002	-52.70
4.4	0.273	-11.29	26.0	0.024	-32.49	56.0	0.012	-38.55	86.0	0.002	-54.93
4.6	0.230	-12.75	26.5	0.027	-31.28	56.5	0.016	-35.69	86.5	0.001	-57.44
4.8	0.193	-14.28	27.0	0.039	-28.26	57.0	0.023	-32.92	87.0	0.001	-60.30
5.0	0.170	-15.39	27.5	0.039	-28.12	57.5	0.026	-31.62	87.5	0.001	-63.64
5.2	0.166	-15.62	28.0	0.029	-30.88	58.0	0.026	-31.63	88.0	0.000	-67.67
5.4	0.175	-15.14	28.5	0.022	-33.37	58.5	0.023	-32.90	88.5	0.000	-72.80
5.6	0.188	-14.53	29.0	0.031	-30.15	59.0	0.017	-35.57	89.0	0.000	-79.93
5.8	0.196	-14.14	29.5	0.038	-28.35	59.5	0.011	-39.09	89.5	0.000	-92.03
6.0	0.196	-14.15	30.0	0.034	-29.41	60.0	0.012	-38.75	90.0	0.000	-99.99
6.2	0.186	-14.61	30.5	0.022	-32.99	60.5	0.017	-35.39			
6.4	0.168	-15.51	31.0	0.022	-33.13	61.0	0.022	-33.08			
6.6	0.144	-16.83	31.5	0.033	-29.77	61.5	0.025	-32.03			
6.8	0.120	-18.38	32.0	0.036	-28.86	62.0	0.025	-32.04			



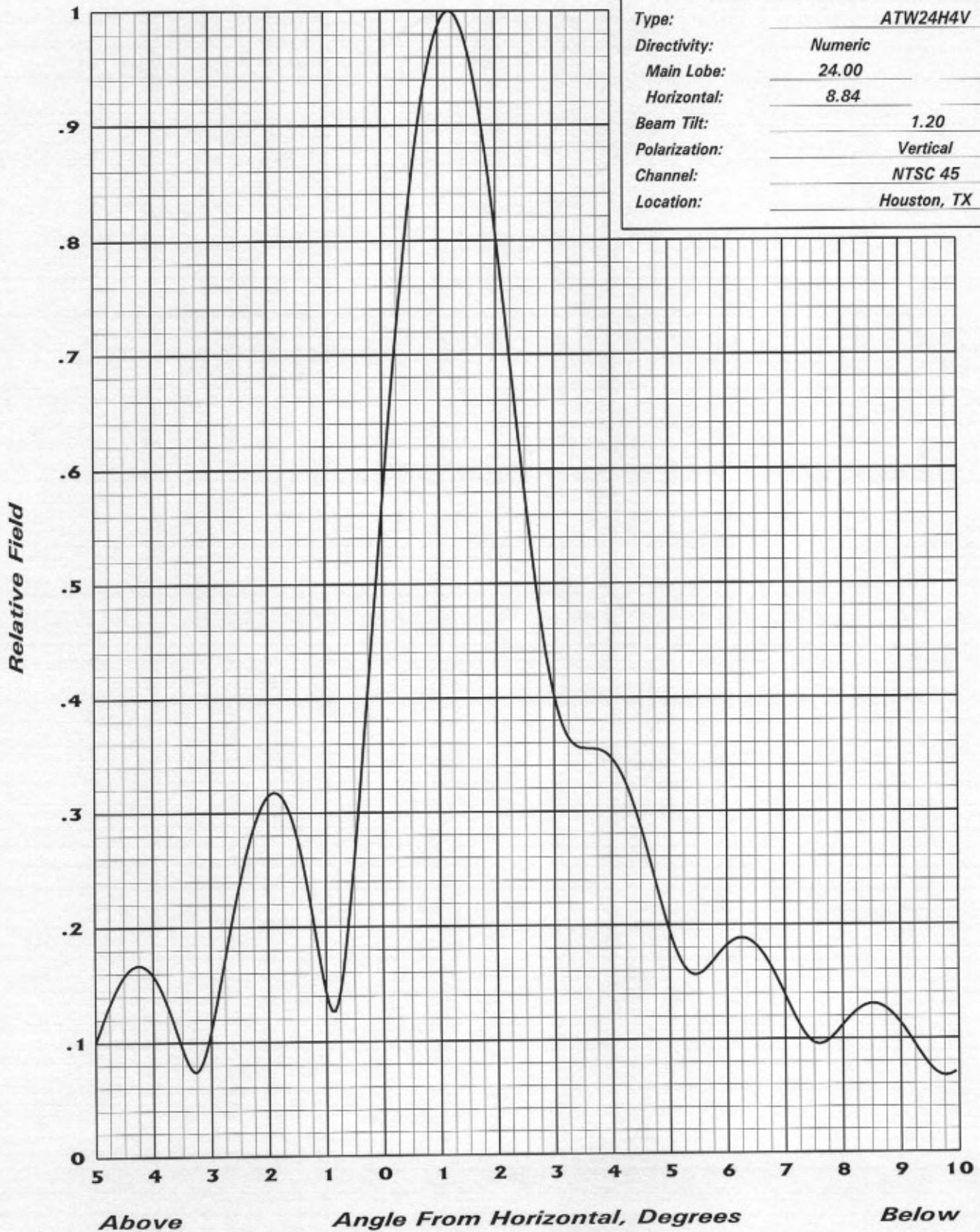
Andrew Corporation
 10500 W. 153rd Street
 Orland Park, Illinois U.S.A. 60462

AG040499-453 Rev. D -17-



ANDREW ELEVATION PATTERN

Type:	ATW24H4V	
Directivity:	Numeric	dBd
Main Lobe:	24.00	(13.80)
Horizontal:	8.84	(9.46)
Beam Tilt:	1.20	
Polarization:	Vertical	
Channel:	NTSC 45	
Location:	Houston, TX	



TABULATED DATA FOR ELEVATION PATTERN TYPE ATW24H4V 1.20 DEGREES OF ELECTRICAL TILT

ANGLE FIELD dB -5° TO 10° IN 0.2° INCREMENTS			ANGLE FIELD dB 10° TO 90° IN 0.5° INCREMENTS			ANGLE FIELD dB			ANGLE FIELD dB		
-5.0	0.137	-17.26	7.0	0.163	-15.78	32.5	0.030	-30.44	62.5	0.014	-37.23
-4.8	0.158	-16.04	7.2	0.141	-17.01	33.0	0.038	-28.33	63.0	0.019	-34.29
-4.6	0.170	-15.40	7.4	0.119	-18.50	33.5	0.038	-28.46	63.5	0.024	-32.44
-4.4	0.171	-15.32	7.6	0.101	-19.91	34.0	0.029	-30.83	64.0	0.027	-31.51
-4.2	0.162	-15.82	7.8	0.093	-20.60	34.5	0.020	-34.18	64.5	0.027	-31.35
-4.0	0.141	-16.99	8.0	0.097	-20.23	35.0	0.024	-32.31	65.0	0.025	-31.90
-3.8	0.113	-18.93	8.2	0.108	-19.30	35.5	0.034	-29.33	65.5	0.022	-33.20
-3.6	0.085	-21.37	8.4	0.121	-18.38	36.0	0.038	-28.42	66.0	0.017	-35.36
-3.4	0.080	-21.97	8.6	0.129	-17.77	36.5	0.033	-29.62	66.5	0.012	-38.61
-3.2	0.110	-19.16	8.8	0.133	-17.56	37.0	0.023	-32.80	67.0	0.008	-42.33
-3.0	0.159	-15.95	9.0	0.130	-17.75	37.5	0.019	-34.53	67.5	0.008	-41.77
-2.8	0.212	-13.47	9.2	0.121	-18.37	38.0	0.027	-31.38	68.0	0.012	-38.28
-2.6	0.261	-11.69	9.4	0.107	-19.40	38.5	0.035	-29.18	68.5	0.017	-35.63
-2.4	0.299	-10.48	9.6	0.091	-20.80	39.0	0.036	-28.98	69.0	0.020	-33.95
-2.2	0.324	-9.79	9.8	0.077	-22.32	39.5	0.029	-30.76	69.5	0.022	-32.99
-2.0	0.332	-9.59	10.0	0.068	-23.40	40.0	0.020	-34.19	70.0	0.023	-32.60
-1.8	0.320	-9.90	10.5	0.082	-21.75	40.5	0.019	-34.62	70.5	0.023	-32.69
-1.6	0.289	-10.79	11.0	0.102	-19.82	41.0	0.027	-31.32	71.0	0.022	-33.22
-1.4	0.240	-12.40	11.5	0.095	-20.47	41.5	0.034	-29.45	71.5	0.020	-34.21
-1.2	0.180	-14.91	12.0	0.066	-23.65	42.0	0.034	-29.46	72.0	0.016	-35.71
-1.0	0.133	-17.53	12.5	0.054	-25.43	42.5	0.027	-31.33	72.5	0.013	-37.85
-0.8	0.155	-16.20	13.0	0.074	-22.60	43.0	0.018	-34.74	73.0	0.009	-40.92
-0.6	0.245	-12.23	13.5	0.084	-21.48	43.5	0.017	-35.17	73.5	0.005	-45.52
-0.4	0.361	-8.85	14.0	0.070	-23.06	44.0	0.026	-31.83	74.0	0.003	-51.55
-0.2	0.485	-6.28	14.5	0.046	-26.67	44.5	0.032	-29.79	74.5	0.004	-48.54
0.0	0.607	-4.33	15.0	0.050	-26.10	45.0	0.034	-29.49	75.0	0.006	-43.81
0.2	0.721	-2.84	15.5	0.068	-23.34	45.5	0.029	-30.89	75.5	0.009	-40.93
0.4	0.821	-1.72	16.0	0.070	-23.07	46.0	0.020	-33.98	76.0	0.011	-39.12
0.6	0.901	-0.90	16.5	0.053	-25.49	46.5	0.015	-36.37	76.5	0.013	-37.96
0.8	0.959	-0.36	17.0	0.037	-28.74	47.0	0.021	-33.60	77.0	0.014	-37.25
1.0	0.993	-0.07	17.5	0.048	-26.43	47.5	0.029	-30.83	77.5	0.014	-36.88
1.2	1.000	0.00	18.0	0.062	-24.21	48.0	0.033	-29.70	78.0	0.015	-36.79
1.4	0.982	-0.16	18.5	0.059	-24.64	48.5	0.031	-30.11	78.5	0.014	-36.92
1.6	0.940	-0.53	19.0	0.042	-27.65	49.0	0.025	-32.07	79.0	0.014	-37.25
1.8	0.878	-1.13	19.5	0.033	-29.74	49.5	0.017	-35.43	79.5	0.013	-37.75
2.0	0.799	-1.95	20.0	0.046	-26.70	50.0	0.015	-36.57	80.0	0.012	-38.41
2.2	0.710	-2.98	20.5	0.056	-25.08	50.5	0.021	-33.41	80.5	0.011	-39.22
2.4	0.617	-4.20	21.0	0.050	-26.09	51.0	0.028	-30.95	81.0	0.010	-40.17
2.6	0.527	-5.57	21.5	0.034	-29.42	51.5	0.032	-29.97	81.5	0.009	-41.26
2.8	0.449	-6.96	22.0	0.031	-30.17	52.0	0.030	-30.36	82.0	0.008	-42.48
3.0	0.391	-8.15	22.5	0.045	-27.00	52.5	0.025	-32.12	82.5	0.006	-43.83
3.2	0.358	-8.92	23.0	0.051	-25.81	53.0	0.017	-35.28	83.0	0.005	-45.31
3.4	0.347	-9.20	23.5	0.044	-27.19	53.5	0.013	-37.59	83.5	0.005	-46.94
3.6	0.349	-9.15	24.0	0.029	-30.74	54.0	0.018	-35.04	84.0	0.004	-48.71
3.8	0.353	-9.04	24.5	0.029	-30.80	54.5	0.025	-32.13	84.5	0.003	-50.63
4.0	0.353	-9.06	25.0	0.042	-27.57	55.0	0.030	-30.57	85.0	0.002	-52.72
4.2	0.343	-9.31	25.5	0.047	-26.52	55.5	0.031	-30.24	85.5	0.002	-55.00
4.4	0.322	-9.84	26.0	0.040	-27.98	56.0	0.028	-31.05	86.0	0.001	-57.50
4.6	0.292	-10.69	26.5	0.026	-31.56	56.5	0.022	-33.08	86.5	0.001	-60.26
4.8	0.256	-11.85	27.0	0.026	-31.59	57.0	0.015	-36.31	87.0	0.001	-63.36
5.0	0.217	-13.26	27.5	0.039	-28.29	57.5	0.012	-38.42	87.5	0.001	-66.92
5.2	0.183	-14.74	28.0	0.044	-27.12	58.0	0.016	-35.90	88.0	0.000	-71.14
5.4	0.161	-15.88	28.5	0.038	-28.36	58.5	0.022	-33.01	88.5	0.000	-76.42
5.6	0.154	-16.24	29.0	0.026	-31.74	59.0	0.027	-31.31	89.0	0.000	-83.68
5.8	0.161	-15.85	29.5	0.024	-32.46	59.5	0.029	-30.69	89.5	0.000	-95.84
6.0	0.174	-15.17	30.0	0.035	-29.20	60.0	0.028	-31.01	90.0	0.000	-99.99
6.2	0.186	-14.60	30.5	0.041	-27.71	60.5	0.024	-32.28			
6.4	0.192	-14.34	31.0	0.037	-28.56	61.0	0.019	-34.65			
6.6	0.190	-14.43	31.5	0.026	-31.64	61.5	0.013	-38.07			
6.8	0.180	-14.91	32.0	0.021	-33.62	62.0	0.010	-39.95			



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