



AZIMUTH PATTERN

Type: ATW-P1

	Numeric	dBd
Directivity:	<u>1.82</u>	<u>2.60</u>

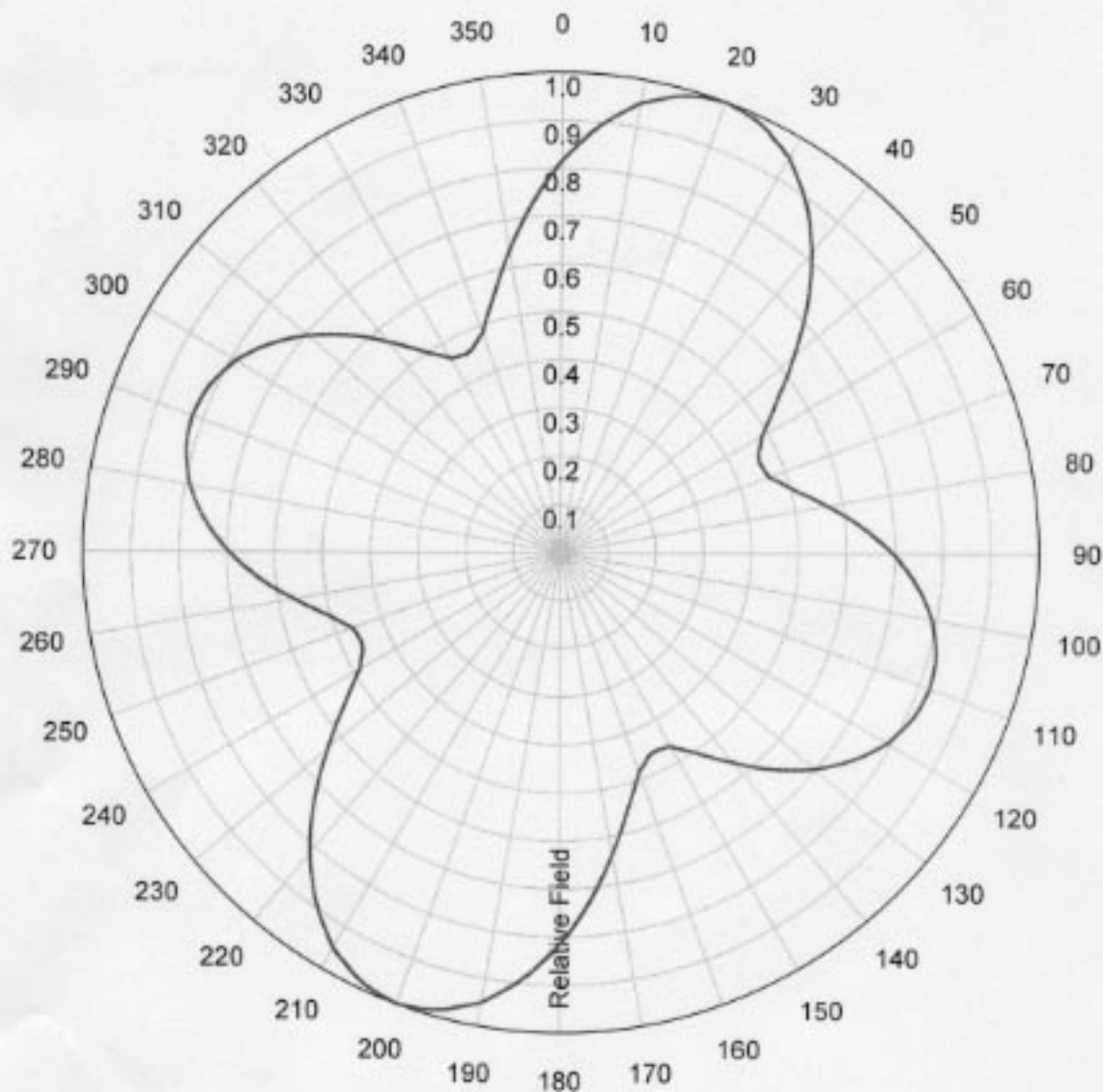
Peak(s) at: _____

Polarization: Horizontal

Channel: 49

Location: Osage Beach, MO

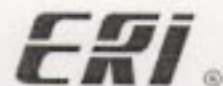
Note: _____



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NF20060419-001 -5-

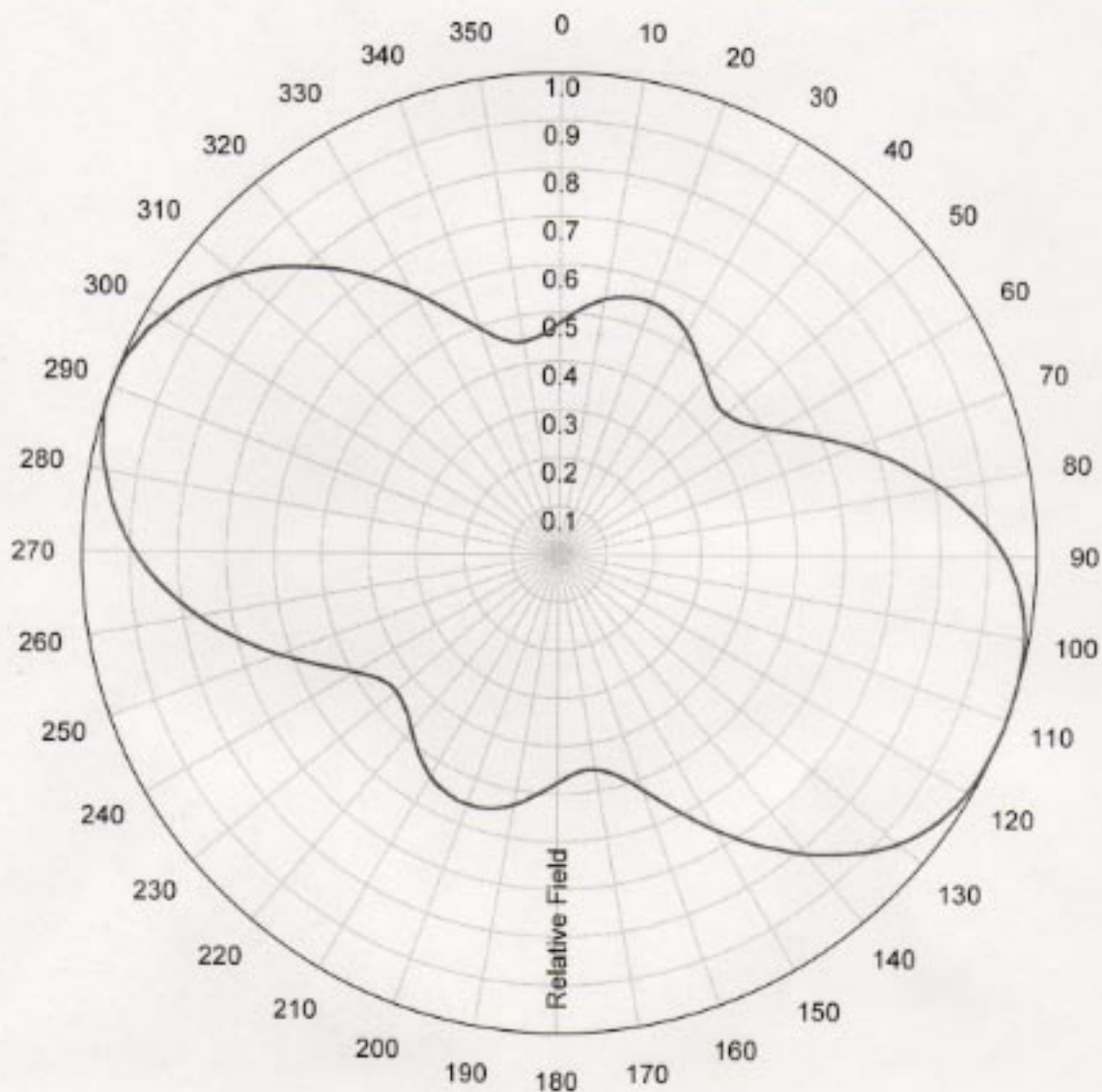
4.19.06



AZIMUTH PATTERN

Type: ATW-V12

	Numeric	dBd
Directivity:	<u>2.02</u>	<u>3.05</u>
Peak(s) at:	<u></u>	
Polarization:	<u>Vertical</u>	
Channel:	<u>49</u>	
Location:	<u>Osage Beach, MO</u>	
Note:	<u></u>	



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4.19.05



**AZIMUTH PATTERN
FCC FILING FORMAT**

Type: ATW-P1
Polarization: Horizontal

Angle	Field	ERP (kW)	ERP (dBk)
0	0.816	3329.287	35.224
10	0.951	4522.015	36.553
20	1.000	5000.011	36.990
30	0.951	4522.015	36.553
40	0.816	3329.287	35.224
50	0.636	2022.485	33.059
60	0.485	1176.128	30.705
70	0.464	1076.482	30.320
80	0.568	1613.124	32.077
90	0.697	2429.050	33.854
100	0.790	3120.507	34.942
110	0.823	3386.653	35.298
120	0.790	3120.507	34.942
130	0.697	2429.050	33.854
140	0.568	1613.124	32.077
150	0.464	1076.482	30.320
160	0.485	1176.128	30.705
170	0.636	2022.485	33.059
180	0.816	3329.287	35.224
190	0.951	4522.015	36.553
200	1.000	5000.011	36.990
210	0.951	4522.015	36.553
220	0.816	3329.287	35.224
230	0.636	2022.485	33.059
240	0.485	1176.128	30.705
250	0.464	1076.482	30.320
260	0.568	1613.124	32.077
270	0.697	2429.050	33.854
280	0.790	3120.507	34.942
290	0.823	3386.653	35.298
300	0.790	3120.507	34.942
310	0.697	2429.050	33.854
320	0.568	1613.124	32.077
330	0.464	1076.482	30.320
340	0.485	1176.128	30.705
350	0.636	2022.485	33.059



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AZIMUTH TABULATED DATA

Type: ATW-P1

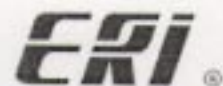
Polarization: Horizontal

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
0	0.816	-1.77	92	0.718	-2.88	184	0.877	-1.14	276	0.758	-2.41
2	0.846	-1.45	94	0.739	-2.63	186	0.904	-0.88	278	0.774	-2.23
4	0.877	-1.14	96	0.758	-2.41	188	0.927	-0.66	280	0.790	-2.05
6	0.904	-0.88	98	0.774	-2.23	190	0.951	-0.44	282	0.800	-1.94
8	0.927	-0.66	100	0.790	-2.05	192	0.965	-0.31	284	0.810	-1.83
10	0.951	-0.44	102	0.800	-1.94	194	0.980	-0.18	286	0.817	-1.76
12	0.965	-0.31	104	0.810	-1.83	196	0.990	-0.09	288	0.820	-1.72
14	0.980	-0.18	106	0.817	-1.76	198	0.995	-0.04	290	0.823	-1.69
16	0.990	-0.09	108	0.820	-1.72	200	1.000	0.00	292	0.820	-1.72
18	0.995	-0.04	110	0.823	-1.69	202	0.995	-0.04	294	0.817	-1.76
20	1.000	0.00	112	0.820	-1.72	204	0.990	-0.09	296	0.810	-1.83
22	0.995	-0.04	114	0.817	-1.76	206	0.980	-0.18	298	0.800	-1.94
24	0.990	-0.09	116	0.810	-1.83	208	0.965	-0.31	300	0.790	-2.05
26	0.980	-0.18	118	0.800	-1.94	210	0.951	-0.44	302	0.774	-2.23
28	0.965	-0.31	120	0.790	-2.05	212	0.927	-0.66	304	0.758	-2.41
30	0.951	-0.44	122	0.774	-2.23	214	0.904	-0.88	306	0.739	-2.63
32	0.927	-0.66	124	0.758	-2.41	216	0.877	-1.14	308	0.718	-2.88
34	0.904	-0.88	126	0.739	-2.63	218	0.846	-1.45	310	0.697	-3.14
36	0.877	-1.14	128	0.718	-2.88	220	0.816	-1.77	312	0.672	-3.45
38	0.846	-1.45	130	0.697	-3.14	222	0.781	-2.15	314	0.647	-3.78
40	0.816	-1.77	132	0.672	-3.45	224	0.746	-2.55	316	0.622	-4.12
42	0.781	-2.15	134	0.647	-3.78	226	0.710	-2.97	318	0.596	-4.51
44	0.746	-2.55	136	0.622	-4.12	228	0.673	-3.44	320	0.568	-4.91
46	0.710	-2.97	138	0.596	-4.51	230	0.636	-3.93	322	0.544	-5.29
48	0.673	-3.44	140	0.568	-4.91	232	0.602	-4.41	324	0.519	-5.70
50	0.636	-3.93	142	0.544	-5.29	234	0.567	-4.93	326	0.498	-6.06
52	0.602	-4.41	144	0.519	-5.70	236	0.537	-5.40	328	0.481	-6.36
54	0.567	-4.93	146	0.498	-6.06	238	0.511	-5.83	330	0.464	-6.67
56	0.537	-5.40	148	0.481	-6.36	240	0.485	-6.29	332	0.460	-6.74
58	0.511	-5.83	150	0.464	-6.67	242	0.473	-6.50	334	0.457	-6.80
60	0.485	-6.29	152	0.460	-6.74	244	0.461	-6.73	336	0.461	-6.73
62	0.473	-6.50	154	0.457	-6.80	246	0.457	-6.80	338	0.473	-6.50
64	0.461	-6.73	156	0.461	-6.73	248	0.460	-6.74	340	0.485	-6.29
66	0.457	-6.80	158	0.473	-6.50	250	0.464	-6.67	342	0.511	-5.83
68	0.460	-6.74	160	0.485	-6.29	252	0.481	-6.36	344	0.537	-5.40
70	0.464	-6.67	162	0.511	-5.83	254	0.498	-6.06	346	0.567	-4.93
72	0.481	-6.36	164	0.537	-5.40	256	0.519	-5.70	348	0.602	-4.41
74	0.498	-6.06	166	0.567	-4.93	258	0.544	-5.29	350	0.636	-3.93
76	0.519	-5.70	168	0.602	-4.41	260	0.568	-4.91	352	0.673	-3.44
78	0.544	-5.29	170	0.636	-3.93	262	0.595	-4.51	354	0.710	-2.97
80	0.568	-4.91	172	0.673	-3.44	264	0.622	-4.12	356	0.746	-2.55
82	0.595	-4.51	174	0.710	-2.97	266	0.647	-3.78	358	0.781	-2.15
84	0.622	-4.12	176	0.746	-2.55	268	0.672	-3.45	360	0.816	-1.77
86	0.647	-3.78	178	0.781	-2.15	270	0.697	-3.14			
88	0.672	-3.45	180	0.816	-1.77	272	0.718	-2.88			
90	0.697	-3.14	182	0.846	-1.45	274	0.739	-2.63			



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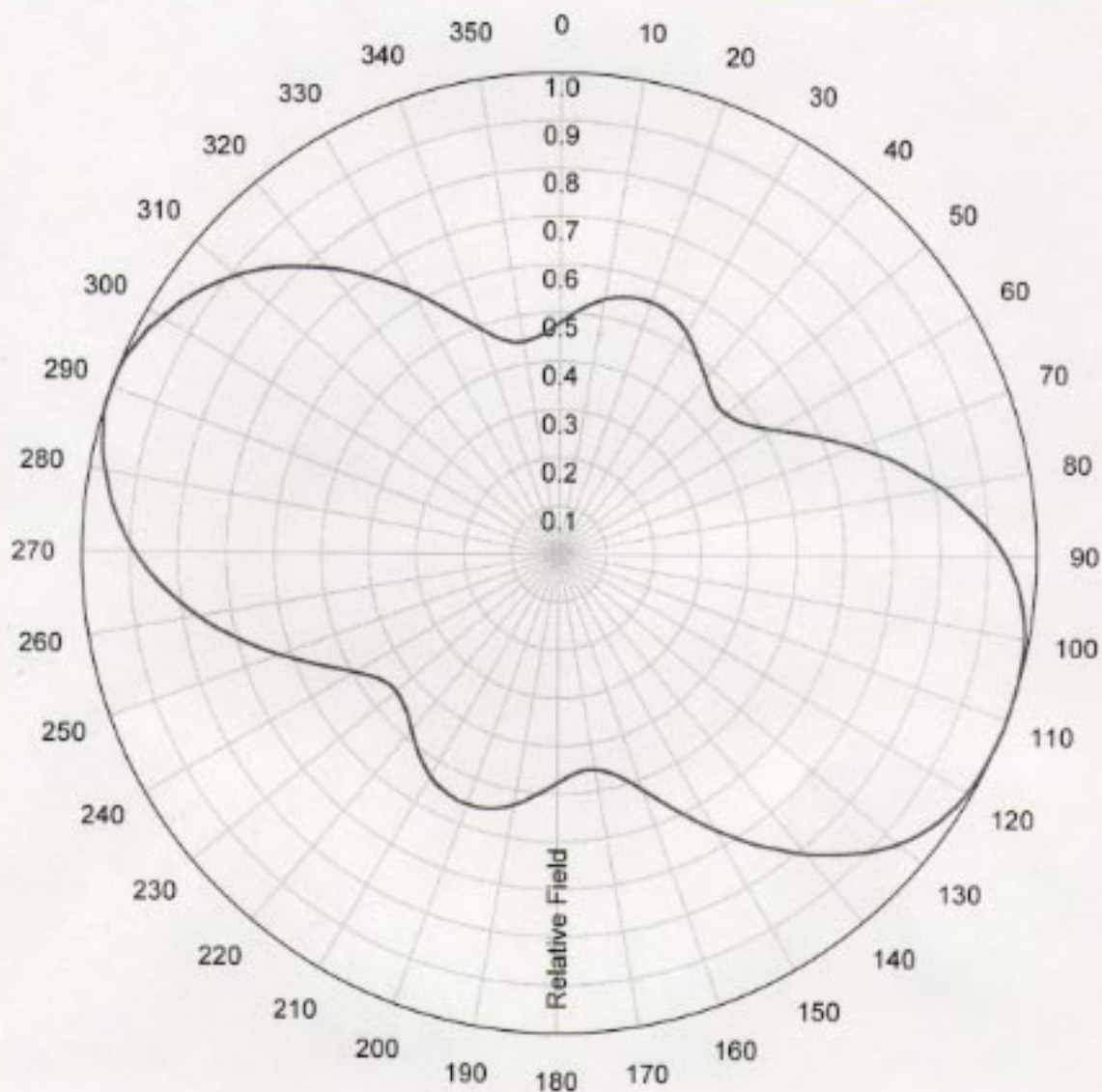
MF20050419-001 -7-



AZIMUTH PATTERN

Type: ATW-V12

	Numeric	dBd
Directivity:	<u>2.02</u>	<u>3.05</u>
Peak(s) at:	<u></u>	
Polarization:	<u>Vertical</u>	
Channel:	<u>49</u>	
Location:	<u>Osage Beach, MO</u>	
Note:	<u></u>	



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4.19.05



ELEVATION TABULATED DATA

Type: ATW30H3V

Polarization: Vertical

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
5.00	0.070	-23.10	-6.50	0.103	-19.74	-42.00	0.014	-37.08	-88.00	0.004	-47.96
4.75	0.051	-25.85	-6.75	0.084	-21.46	-43.00	0.028	-31.06	-89.00	0.002	-53.98
4.50	0.035	-29.12	-7.00	0.062	-24.15	-44.00	0.055	-25.19	-90.00	0.000	-40.00
4.25	0.069	-23.22	-7.25	0.053	-25.51	-45.00	0.047	-26.56			
4.00	0.122	-18.27	-7.50	0.068	-23.35	-46.00	0.036	-28.87			
3.75	0.171	-15.34	-7.75	0.088	-21.06	-47.00	0.026	-31.70			
3.50	0.201	-13.94	-8.00	0.099	-20.09	-48.00	0.018	-34.89			
3.25	0.204	-13.81	-8.25	0.096	-20.40	-49.00	0.018	-34.89			
3.00	0.179	-14.94	-8.50	0.080	-21.94	-50.00	0.014	-37.08			
2.75	0.138	-17.20	-8.75	0.064	-23.88	-51.00	0.044	-27.13			
2.50	0.118	-18.56	-9.00	0.066	-23.61	-52.00	0.049	-26.20			
2.25	0.159	-15.94	-9.25	0.090	-20.87	-53.00	0.037	-28.64			
2.00	0.225	-12.96	-9.50	0.116	-18.71	-54.00	0.036	-28.87			
1.75	0.274	-11.26	-9.75	0.134	-17.49	-55.00	0.029	-30.75			
1.50	0.285	-10.90	-10.00	0.139	-17.14	-56.00	0.020	-33.98			
1.25	0.250	-12.04	-11.00	0.083	-21.62	-57.00	0.024	-32.40			
1.00	0.185	-14.66	-12.00	0.038	-28.40	-58.00	0.013	-37.72			
0.75	0.179	-14.92	-13.00	0.050	-26.02	-59.00	0.018	-34.89			
0.50	0.307	-10.26	-14.00	0.030	-30.46	-60.00	0.036	-28.40			
0.25	0.495	-6.11	-15.00	0.102	-19.83	-61.00	0.039	-28.18			
0.00	0.686	-3.27	-16.00	0.076	-22.50	-62.00	0.027	-31.37			
-0.25	0.845	-1.46	-17.00	0.034	-29.37	-63.00	0.028	-31.06			
-0.50	0.956	-0.39	-18.00	0.023	-32.77	-64.00	0.033	-29.63			
-0.75	0.998	-0.02	-19.00	0.011	-39.17	-65.00	0.026	-31.70			
-1.00	0.975	-0.22	-20.00	0.078	-22.16	-66.00	0.014	-37.08			
-1.25	0.888	-1.03	-21.00	0.077	-22.27	-67.00	0.021	-33.56			
-1.50	0.759	-2.40	-22.00	0.042	-27.54	-68.00	0.026	-31.70			
-1.75	0.613	-4.24	-23.00	0.009	-40.92	-69.00	0.018	-34.89			
-2.00	0.484	-6.30	-24.00	0.015	-36.48	-70.00	0.002	-63.98			
-2.25	0.402	-7.90	-25.00	0.047	-26.56	-71.00	0.022	-33.15			
-2.50	0.373	-8.57	-26.00	0.079	-22.05	-72.00	0.037	-28.64			
-2.75	0.365	-8.74	-27.00	0.052	-25.68	-73.00	0.044	-27.13			
-3.00	0.349	-9.14	-28.00	0.025	-32.04	-74.00	0.040	-27.96			
-3.25	0.306	-10.27	-29.00	0.014	-37.08	-75.00	0.029	-30.75			
-3.50	0.248	-12.11	-30.00	0.008	-41.94	-76.00	0.018	-34.89			
-3.75	0.194	-14.27	-31.00	0.069	-24.58	-77.00	0.017	-35.39			
-4.00	0.173	-15.24	-32.00	0.065	-23.74	-78.00	0.026	-31.70			
-4.25	0.193	-14.29	-33.00	0.042	-27.54	-79.00	0.033	-29.63			
-4.50	0.221	-13.11	-34.00	0.020	-33.98	-80.00	0.036	-28.87			
-4.75	0.234	-12.63	-35.00	0.017	-35.39	-81.00	0.036	-28.87			
-5.00	0.225	-12.96	-36.00	0.009	-40.92	-82.00	0.032	-29.90			
-5.25	0.196	-14.15	-37.00	0.053	-25.51	-83.00	0.027	-31.37			
-5.50	0.161	-15.86	-38.00	0.061	-24.29	-84.00	0.022	-33.15			
-5.75	0.132	-17.62	-39.00	0.042	-27.54	-85.00	0.016	-35.92			
-6.00	0.117	-18.64	-40.00	0.028	-31.06	-86.00	0.011	-39.17			
-6.25	0.111	-19.09	-41.00	0.016	-35.92	-87.00	0.007	-43.10			



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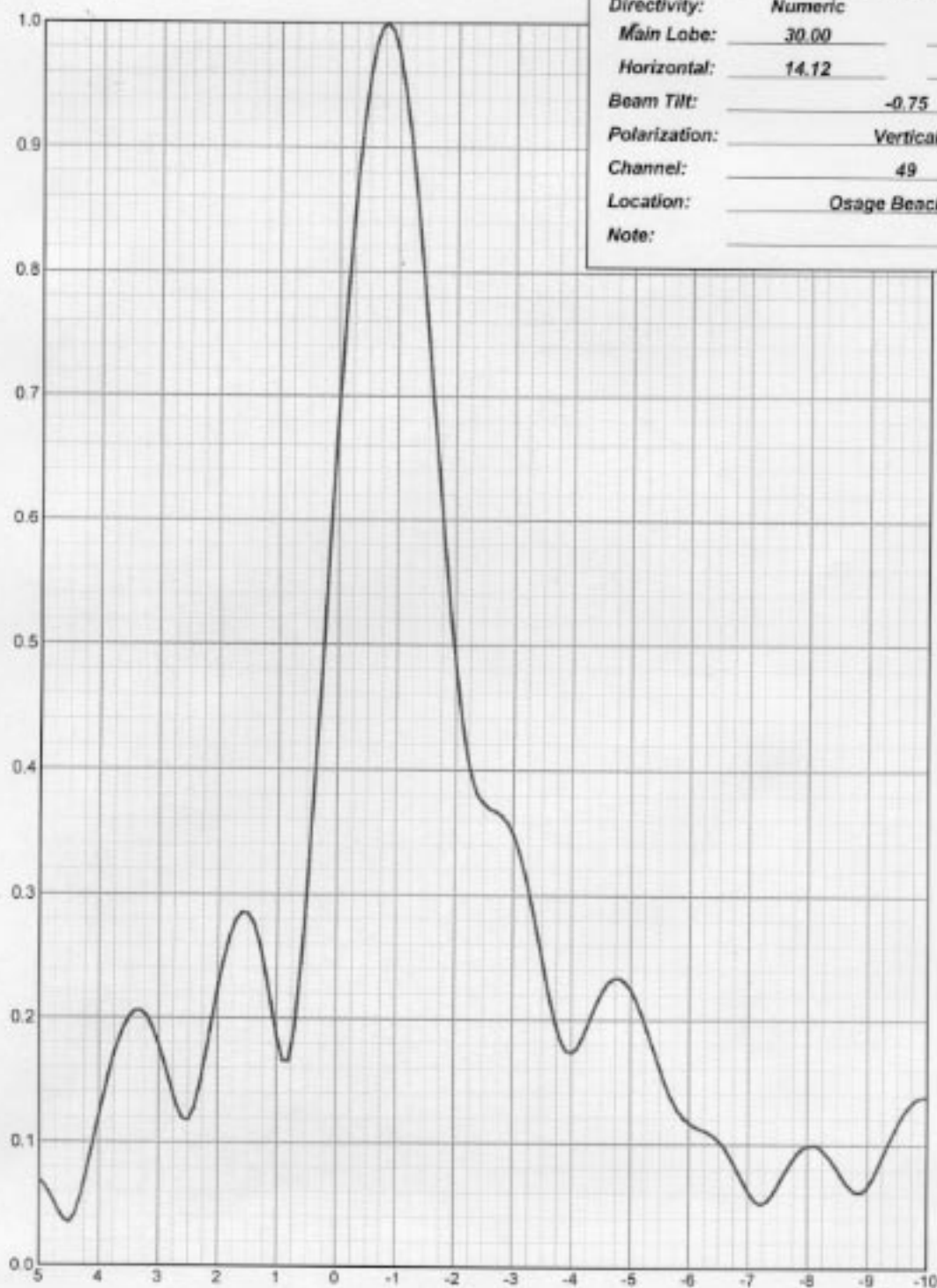
4.19.06



ELEVATION PATTERN

Type:	ATW30H3V	
Directivity:	Numeric	dBd
Main Lobe:	30.00	14.77
Horizontal:	14.12	11.50
Beam Tilt:	-0.75	
Polarization:	Vertical	
Channel:	49	
Location:	Osage Beach, MO	
Note:		

Relative Field



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4.19.06



ELEVATION TABULATED DATA

Type: ATW33H3H

Polarization: Horizontal

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
5.00	0.110	-19.17	-6.50	0.121	-18.34	-42.00	0.022	-33.15	-88.00	0.004	-47.96
4.75	0.107	-19.37	-6.75	0.100	-20.00	-43.00	0.021	-33.56	-89.00	0.002	-53.98
4.50	0.088	-21.11	-7.00	0.080	-21.94	-44.00	0.019	-34.42	-90.00	0.000	-40.00
4.25	0.065	-23.81	-7.25	0.079	-22.10	-45.00	0.025	-32.04			
4.00	0.072	-22.85	-7.50	0.091	-20.82	-46.00	0.015	-36.48			
3.75	0.109	-19.25	-7.75	0.103	-19.79	-47.00	0.027	-31.37			
3.50	0.144	-16.83	-8.00	0.103	-19.74	-48.00	0.015	-36.48			
3.25	0.156	-16.14	-8.25	0.091	-20.77	-49.00	0.025	-32.04			
3.00	0.142	-16.95	-8.50	0.074	-22.62	-50.00	0.023	-32.77			
2.75	0.106	-19.49	-8.75	0.065	-23.81	-51.00	0.017	-35.39			
2.50	0.085	-21.41	-9.00	0.069	-23.22	-52.00	0.029	-30.75			
2.25	0.131	-17.69	-9.25	0.081	-21.83	-53.00	0.017	-35.39			
2.00	0.200	-13.98	-9.50	0.088	-21.11	-54.00	0.022	-33.15			
1.75	0.252	-11.97	-9.75	0.084	-21.51	-55.00	0.028	-31.06			
1.50	0.268	-11.44	-10.00	0.072	-22.85	-56.00	0.014	-37.08			
1.25	0.235	-12.58	-11.00	0.073	-22.73	-57.00	0.023	-32.77			
1.00	0.170	-15.39	-12.00	0.048	-26.38	-58.00	0.027	-31.37			
0.75	0.167	-15.52	-13.00	0.064	-23.88	-59.00	0.012	-38.42			
0.50	0.303	-10.37	-14.00	0.043	-27.33	-60.00	0.021	-33.56			
0.25	0.498	-6.09	-15.00	0.045	-26.94	-61.00	0.027	-31.37			
0.00	0.690	-3.22	-16.00	0.046	-26.74	-62.00	0.015	-36.48			
-0.25	0.851	-1.40	-17.00	0.029	-30.75	-63.00	0.014	-37.08			
-0.50	0.960	-0.35	-18.00	0.043	-27.33	-64.00	0.028	-31.06			
-0.75	0.999	-0.01	-19.00	0.029	-30.75	-65.00	0.025	-32.04			
-1.00	0.970	-0.26	-20.00	0.035	-29.12	-66.00	0.010	-40.00			
-1.25	0.878	-1.13	-21.00	0.035	-29.12	-67.00	0.019	-34.42			
-1.50	0.745	-2.58	-22.00	0.027	-31.37	-68.00	0.031	-30.17			
-1.75	0.600	-4.44	-23.00	0.037	-28.64	-69.00	0.029	-30.75			
-2.00	0.474	-6.48	-24.00	0.023	-32.77	-70.00	0.015	-36.48			
-2.25	0.399	-7.97	-25.00	0.034	-29.37	-71.00	0.012	-38.42			
-2.50	0.370	-8.64	-26.00	0.023	-32.77	-72.00	0.027	-31.37			
-2.75	0.357	-8.93	-27.00	0.029	-30.75	-73.00	0.035	-29.12			
-3.00	0.332	-9.58	-28.00	0.025	-32.04	-74.00	0.034	-29.37			
-3.25	0.284	-10.93	-29.00	0.024	-32.40	-75.00	0.024	-32.40			
-3.50	0.225	-12.96	-30.00	0.026	-31.70	-76.00	0.011	-39.17			
-3.75	0.177	-15.02	-31.00	0.020	-33.98	-77.00	0.010	-40.00			
-4.00	0.163	-15.76	-32.00	0.028	-31.06	-78.00	0.021	-33.56			
-4.25	0.176	-15.09	-33.00	0.019	-34.42	-79.00	0.030	-30.46			
-4.50	0.186	-14.61	-34.00	0.028	-31.06	-80.00	0.033	-29.63			
-4.75	0.177	-15.02	-35.00	0.018	-34.89	-81.00	0.033	-29.63			
-5.00	0.151	-16.42	-36.00	0.028	-31.06	-82.00	0.030	-30.46			
-5.25	0.119	-18.49	-37.00	0.018	-34.89	-83.00	0.025	-32.04			
-5.50	0.101	-19.91	-38.00	0.028	-31.06	-84.00	0.020	-33.98			
-5.75	0.109	-19.25	-39.00	0.017	-35.39	-85.00	0.015	-36.48			
-6.00	0.125	-18.06	-40.00	0.025	-32.04	-86.00	0.010	-40.00			
-6.25	0.131	-17.69	-41.00	0.019	-34.42	-87.00	0.007	-43.10			



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Chandler, Indiana U.S.A 47610

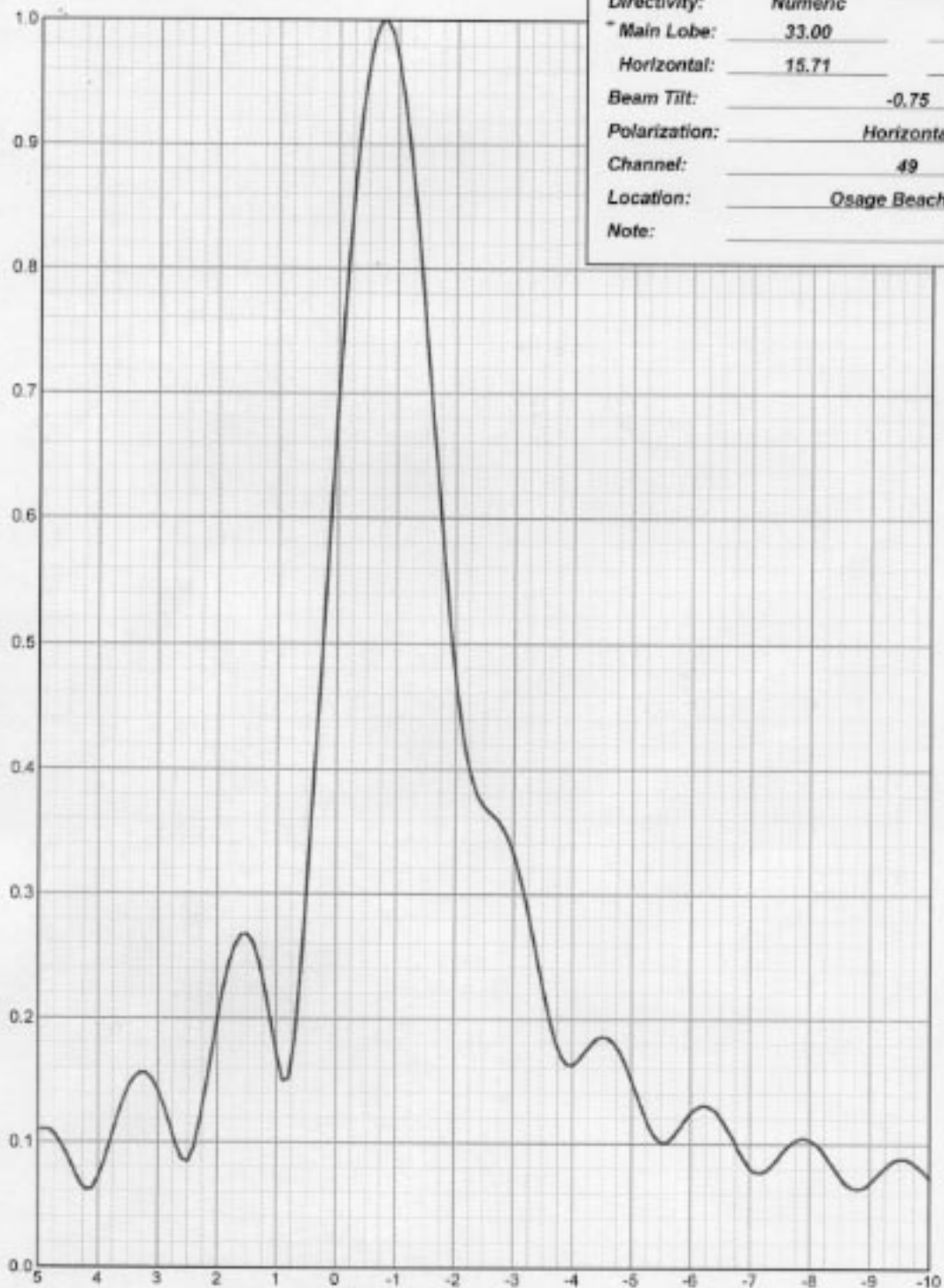
MF20060419-001 -13-



ELEVATION PATTERN

Type:	ATW33H3H	
Directivity:	Numeric	dBd
* Main Lobe:	33.00	15.19
Horizontal:	15.71	11.96
Beam Tilt:	-0.75	
Polarization:	Horizontal	
Channel:	49	
Location:	Osage Beach, MO	
Note:		

Relative Field



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MF20050419-001 -12-



**AZIMUTH PATTERN
FCC FILING FORMAT**

Type: ATW-V12
Polarization: Vertical

Angle	Field	ERP (kW)	ERP (dBk)
0	0.480	806.402	29.066
10	0.536	1005.538	30.024
20	0.556	1081.978	30.342
30	0.531	986.866	29.943
40	0.477	796.353	29.011
50	0.456	727.778	28.620
60	0.521	950.046	29.777
70	0.661	1529.227	31.845
80	0.814	2319.091	33.653
90	0.935	3059.794	34.857
100	0.991	3437.291	35.362
110	1.000	3500.008	35.441
120	0.991	3437.291	35.362
130	0.935	3059.794	34.857
140	0.814	2319.091	33.653
150	0.661	1529.227	31.845
160	0.521	950.046	29.777
170	0.456	727.778	28.620
180	0.477	796.353	29.011
190	0.531	986.866	29.943
200	0.556	1081.978	30.342
210	0.536	1005.538	30.024
220	0.480	806.402	29.066
230	0.446	696.208	28.427
240	0.496	861.058	29.350
250	0.625	1367.191	31.358
260	0.769	2069.768	33.159
270	0.890	2772.356	34.428
280	0.966	3266.053	35.140
290	1.000	3500.008	35.441
300	0.966	3266.053	35.140
310	0.890	2772.356	34.428
320	0.769	2069.768	33.159
330	0.625	1367.191	31.358
340	0.496	861.058	29.350
350	0.446	696.208	28.427



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MF20060419-001 -11-



AZIMUTH TABULATED DATA

Type: ATW-V12

Polarization: Vertical

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
0	0.480	-6.38	92	0.951	-0.44	184	0.498	-6.06	276	0.941	-0.53
2	0.492	-6.16	94	0.965	-0.31	186	0.509	-5.87	278	0.954	-0.41
4	0.504	-5.95	96	0.976	-0.21	188	0.521	-5.68	280	0.966	-0.30
6	0.516	-5.75	98	0.985	-0.13	190	0.531	-5.50	282	0.979	-0.18
8	0.526	-5.58	100	0.991	-0.08	192	0.540	-5.35	284	0.987	-0.11
10	0.536	-5.42	102	0.995	-0.04	194	0.547	-5.24	286	0.995	-0.04
12	0.544	-5.29	104	0.997	-0.03	196	0.552	-5.16	288	1.000	0.00
14	0.549	-5.21	106	0.998	-0.02	198	0.555	-5.11	290	1.000	0.00
16	0.553	-5.15	108	1.000	0.00	200	0.556	-5.10	292	1.000	0.00
18	0.556	-5.10	110	1.000	0.00	202	0.556	-5.10	294	0.995	-0.04
20	0.556	-5.10	112	1.000	0.00	204	0.553	-5.15	296	0.987	-0.11
22	0.555	-5.11	114	0.998	-0.02	206	0.549	-5.21	298	0.979	-0.18
24	0.552	-5.16	116	0.997	-0.03	208	0.544	-5.29	300	0.966	-0.30
26	0.547	-5.24	118	0.995	-0.04	210	0.536	-5.42	302	0.954	-0.41
28	0.540	-5.35	120	0.991	-0.08	212	0.526	-5.58	304	0.941	-0.53
30	0.531	-5.50	122	0.985	-0.13	214	0.516	-5.75	306	0.926	-0.67
32	0.521	-5.66	124	0.976	-0.21	216	0.504	-5.95	308	0.909	-0.83
34	0.509	-5.87	126	0.965	-0.31	218	0.492	-6.16	310	0.890	-1.01
36	0.498	-6.06	128	0.951	-0.44	220	0.480	-6.38	312	0.869	-1.22
38	0.487	-6.25	130	0.935	-0.58	222	0.468	-6.60	314	0.847	-1.44
40	0.477	-6.43	132	0.915	-0.77	224	0.459	-6.76	316	0.822	-1.70
42	0.468	-6.60	134	0.891	-1.00	226	0.453	-6.88	318	0.795	-1.99
44	0.460	-6.74	136	0.866	-1.25	228	0.446	-6.97	320	0.769	-2.28
46	0.455	-6.84	138	0.840	-1.51	230	0.446	-7.01	322	0.742	-2.59
48	0.453	-6.88	140	0.814	-1.79	232	0.447	-6.99	324	0.712	-2.95
50	0.456	-6.82	142	0.783	-2.12	234	0.454	-6.86	326	0.683	-3.31
52	0.461	-6.73	144	0.753	-2.46	236	0.464	-6.67	328	0.654	-3.69
54	0.470	-6.56	146	0.724	-2.81	238	0.478	-6.41	330	0.625	-4.08
56	0.482	-6.34	148	0.691	-3.21	240	0.496	-6.09	332	0.594	-4.52
58	0.500	-6.02	150	0.661	-3.60	242	0.517	-5.73	334	0.567	-4.93
60	0.521	-5.66	152	0.630	-4.01	244	0.541	-5.34	336	0.541	-5.34
62	0.545	-5.27	154	0.600	-4.44	246	0.567	-4.93	338	0.517	-5.73
64	0.573	-4.84	156	0.573	-4.84	248	0.594	-4.52	340	0.496	-6.09
66	0.600	-4.44	158	0.545	-5.27	250	0.625	-4.08	342	0.478	-6.41
68	0.630	-4.01	160	0.521	-5.66	252	0.654	-3.69	344	0.464	-6.67
70	0.661	-3.60	162	0.500	-6.02	254	0.683	-3.31	346	0.454	-6.86
72	0.691	-3.21	164	0.482	-6.34	256	0.712	-2.95	348	0.447	-6.99
74	0.724	-2.81	166	0.470	-6.56	258	0.742	-2.59	350	0.446	-7.01
76	0.753	-2.46	168	0.461	-6.73	260	0.769	-2.28	352	0.448	-6.97
78	0.783	-2.12	170	0.456	-6.82	262	0.795	-1.99	354	0.453	-6.88
80	0.814	-1.79	172	0.453	-6.88	264	0.822	-1.70	356	0.459	-6.76
82	0.840	-1.51	174	0.455	-6.84	266	0.847	-1.44	358	0.468	-6.60
84	0.866	-1.25	176	0.460	-6.74	268	0.869	-1.22	360	0.480	-6.38
86	0.891	-1.00	178	0.468	-6.60	270	0.890	-1.01			
88	0.915	-0.77	180	0.477	-6.43	272	0.909	-0.83			
90	0.935	-0.58	182	0.487	-6.25	274	0.926	-0.67			



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MF20060419-001 -10-