

Exhibit E-39

This exhibit consists of this page of text and the following 9 pages, which contain the antenna data for the proposed facility. This data was acquired from the manufacturer's software package.



Exhibit No.

Date
Call Letters
Location
Customer
Antenna Type

03 Jan 2003
WVSX-DT Channel **8**
Lewisburg, WV
High Mountain Broadcasting Corp.
TF-2HT

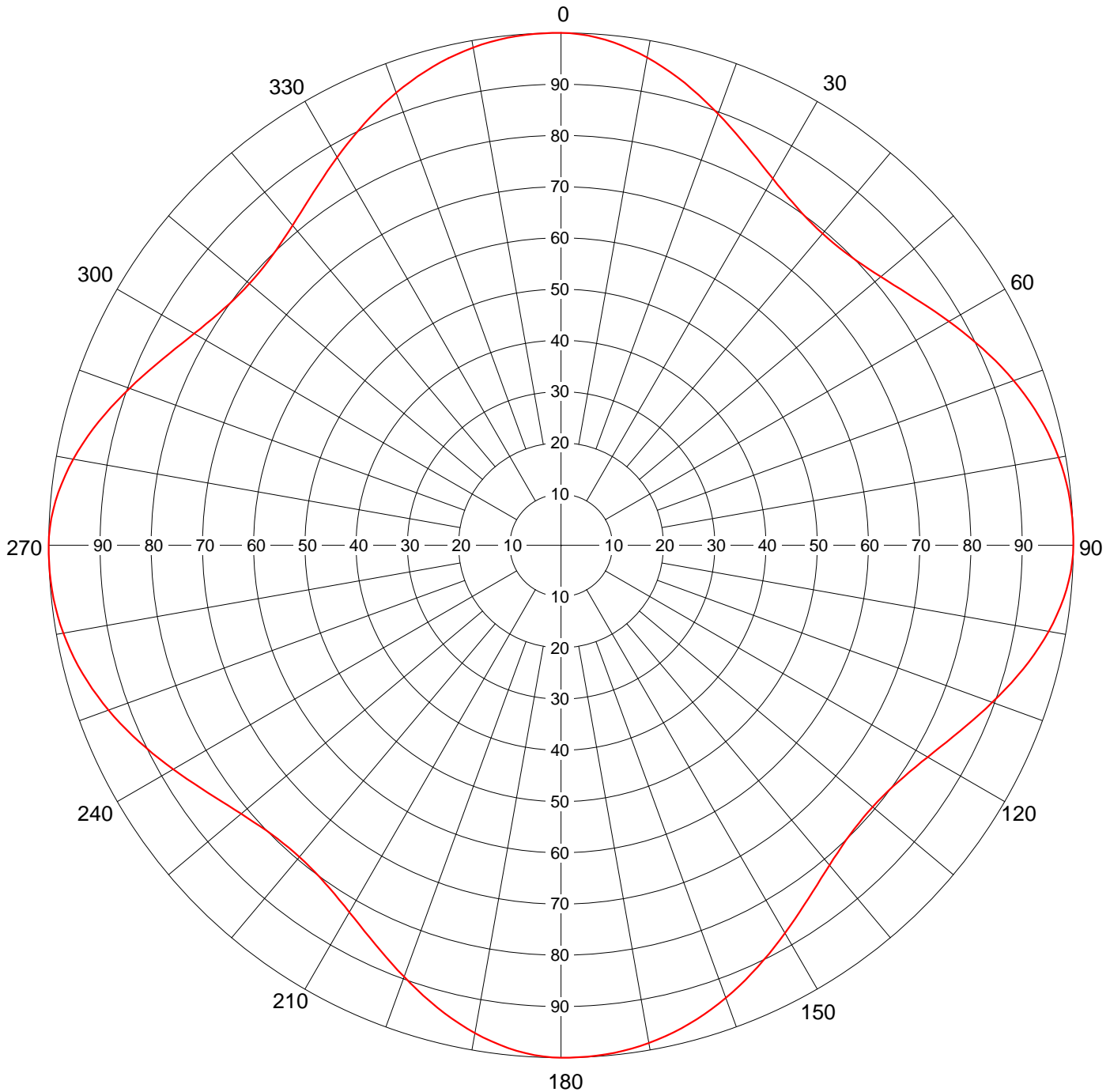
AZIMUTH PATTERN

Gain
Calculated / Measured

1.20
Calculated

Frequency
Drawing #

183 MHz
TF-O



Remarks:



Date **03 Jan 2003**
 Call Letters **WVSX-DT** Channel **8**
 Location **Lewisburg, WV**
 Customer **High Mountain Broadcasting Corp.**
 Antenna Type **TF-2HT**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **TF-O**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	1.000	45	0.798	90	1.000	135	0.798	180	1.000	225	0.798	270	1.000	315	0.798
1	0.999	46	0.801	91	0.999	136	0.801	181	0.999	226	0.801	271	0.999	316	0.801
2	0.998	47	0.804	92	0.998	137	0.804	182	0.998	227	0.804	272	0.998	317	0.804
3	0.996	48	0.807	93	0.996	138	0.807	183	0.996	228	0.807	273	0.996	318	0.807
4	0.994	49	0.811	94	0.994	139	0.811	184	0.994	229	0.811	274	0.994	319	0.811
5	0.990	50	0.815	95	0.990	140	0.815	185	0.990	230	0.815	275	0.990	320	0.815
6	0.987	51	0.820	96	0.987	141	0.820	186	0.987	231	0.820	276	0.987	321	0.820
7	0.982	52	0.825	97	0.982	142	0.825	187	0.982	232	0.825	277	0.982	322	0.825
8	0.978	53	0.830	98	0.978	143	0.830	188	0.978	233	0.830	278	0.978	323	0.830
9	0.972	54	0.836	99	0.972	144	0.836	189	0.972	234	0.836	279	0.972	324	0.836
10	0.967	55	0.842	100	0.967	145	0.842	190	0.967	235	0.842	280	0.967	325	0.842
11	0.961	56	0.848	101	0.961	146	0.848	191	0.961	236	0.848	281	0.961	326	0.848
12	0.954	57	0.854	102	0.954	147	0.854	192	0.954	237	0.854	282	0.954	327	0.854
13	0.948	58	0.861	103	0.948	148	0.861	193	0.948	238	0.861	283	0.948	328	0.861
14	0.941	59	0.867	104	0.941	149	0.867	194	0.941	239	0.867	284	0.941	329	0.867
15	0.934	60	0.874	105	0.934	150	0.874	195	0.934	240	0.874	285	0.934	330	0.874
16	0.926	61	0.881	106	0.926	151	0.881	196	0.926	241	0.881	286	0.926	331	0.881
17	0.919	62	0.888	107	0.919	152	0.888	197	0.919	242	0.888	287	0.919	332	0.888
18	0.911	63	0.895	108	0.911	153	0.895	198	0.911	243	0.895	288	0.911	333	0.895
19	0.904	64	0.901	109	0.904	154	0.901	199	0.904	244	0.901	289	0.904	334	0.901
20	0.896	65	0.908	110	0.896	155	0.908	200	0.896	245	0.908	290	0.896	335	0.908
21	0.889	66	0.915	111	0.889	156	0.915	201	0.889	246	0.915	291	0.889	336	0.915
22	0.881	67	0.921	112	0.881	157	0.921	202	0.881	247	0.921	292	0.881	337	0.921
23	0.873	68	0.928	113	0.873	158	0.928	203	0.873	248	0.928	293	0.873	338	0.928
24	0.866	69	0.934	114	0.866	159	0.934	204	0.866	249	0.934	294	0.866	339	0.934
25	0.859	70	0.940	115	0.859	160	0.940	205	0.859	250	0.940	295	0.859	340	0.940
26	0.852	71	0.946	116	0.852	161	0.946	206	0.852	251	0.946	296	0.852	341	0.946
27	0.845	72	0.952	117	0.845	162	0.952	207	0.845	252	0.952	297	0.845	342	0.952
28	0.839	73	0.957	118	0.839	163	0.957	208	0.839	253	0.957	298	0.839	343	0.957
29	0.832	74	0.962	119	0.832	164	0.962	209	0.832	254	0.962	299	0.832	344	0.962
30	0.827	75	0.967	120	0.827	165	0.967	210	0.827	255	0.967	300	0.827	345	0.967
31	0.821	76	0.971	121	0.821	166	0.971	211	0.821	256	0.971	301	0.821	346	0.971
32	0.816	77	0.976	122	0.816	167	0.976	212	0.816	257	0.976	302	0.816	347	0.976
33	0.812	78	0.980	123	0.812	168	0.980	213	0.812	258	0.980	303	0.812	348	0.980
34	0.808	79	0.983	124	0.808	169	0.983	214	0.808	259	0.983	304	0.808	349	0.983
35	0.804	80	0.986	125	0.804	170	0.986	215	0.804	260	0.986	305	0.804	350	0.986
36	0.801	81	0.989	126	0.801	171	0.989	216	0.801	261	0.989	306	0.801	351	0.989
37	0.798	82	0.992	127	0.798	172	0.992	217	0.798	262	0.992	307	0.798	352	0.992
38	0.796	83	0.994	128	0.796	173	0.994	218	0.796	263	0.994	308	0.796	353	0.994
39	0.795	84	0.996	129	0.795	174	0.996	219	0.795	264	0.996	309	0.795	354	0.996
40	0.794	85	0.997	130	0.794	175	0.997	220	0.794	265	0.997	310	0.794	355	0.997
41	0.794	86	0.999	131	0.794	176	0.999	221	0.794	266	0.999	311	0.794	356	0.999
42	0.794	87	0.999	132	0.794	177	0.999	222	0.794	267	0.999	312	0.794	357	0.999
43	0.795	88	1.000	133	0.795	178	1.000	223	0.795	268	1.000	313	0.795	358	1.000
44	0.796	89	1.000	134	0.796	179	1.000	224	0.796	269	1.000	314	0.796	359	1.000

Remarks:



Date **03 Jan 2003**
 Call Letters **WVSX-DT** Channel **8**
 Location **Lewisburg, WV**
 Customer **High Mountain Broadcasting Corp.**
 Antenna Type **TF-2HT**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **TF-O**

Angle	Field	ERP (kW)	ERP (dBk)
0	1.000	3.7	5.68
10	0.967	3.5	5.39
20	0.896	3.0	4.73
30	0.827	2.5	4.03
40	0.794	2.3	3.68
50	0.815	2.5	3.91
60	0.874	2.8	4.51
70	0.940	3.3	5.14
80	0.986	3.6	5.56
90	1.000	3.7	5.68
100	0.967	3.5	5.39
110	0.896	3.0	4.73
120	0.827	2.5	4.03
130	0.794	2.3	3.68
140	0.815	2.5	3.91
150	0.874	2.8	4.51
160	0.940	3.3	5.14
170	0.986	3.6	5.56
180	1.000	3.7	5.68
190	0.967	3.5	5.39
200	0.896	3.0	4.73
210	0.827	2.5	4.03
220	0.794	2.3	3.68
230	0.815	2.5	3.91
240	0.874	2.8	4.51
250	0.940	3.3	5.14
260	0.986	3.6	5.56
270	1.000	3.7	5.68
280	0.967	3.5	5.39
290	0.896	3.0	4.73
300	0.827	2.5	4.03
310	0.794	2.3	3.68
320	0.815	2.5	3.91
330	0.874	2.8	4.51
340	0.940	3.3	5.14
350	0.986	3.6	5.56

Maxima

Angle	Field	ERP (kW)	ERP (dBk)
0	1.000	3.7	5.68
89	1.000	3.7	5.68
179	1.000	3.7	5.68
269	1.000	3.7	5.68
359	1.000	3.7	5.68

Minima

Angle	Field	ERP (kW)	ERP (dBk)
41	0.794	2.3	3.68
131	0.794	2.3	3.68
221	0.794	2.3	3.68
311	0.794	2.3	3.68

Remarks:

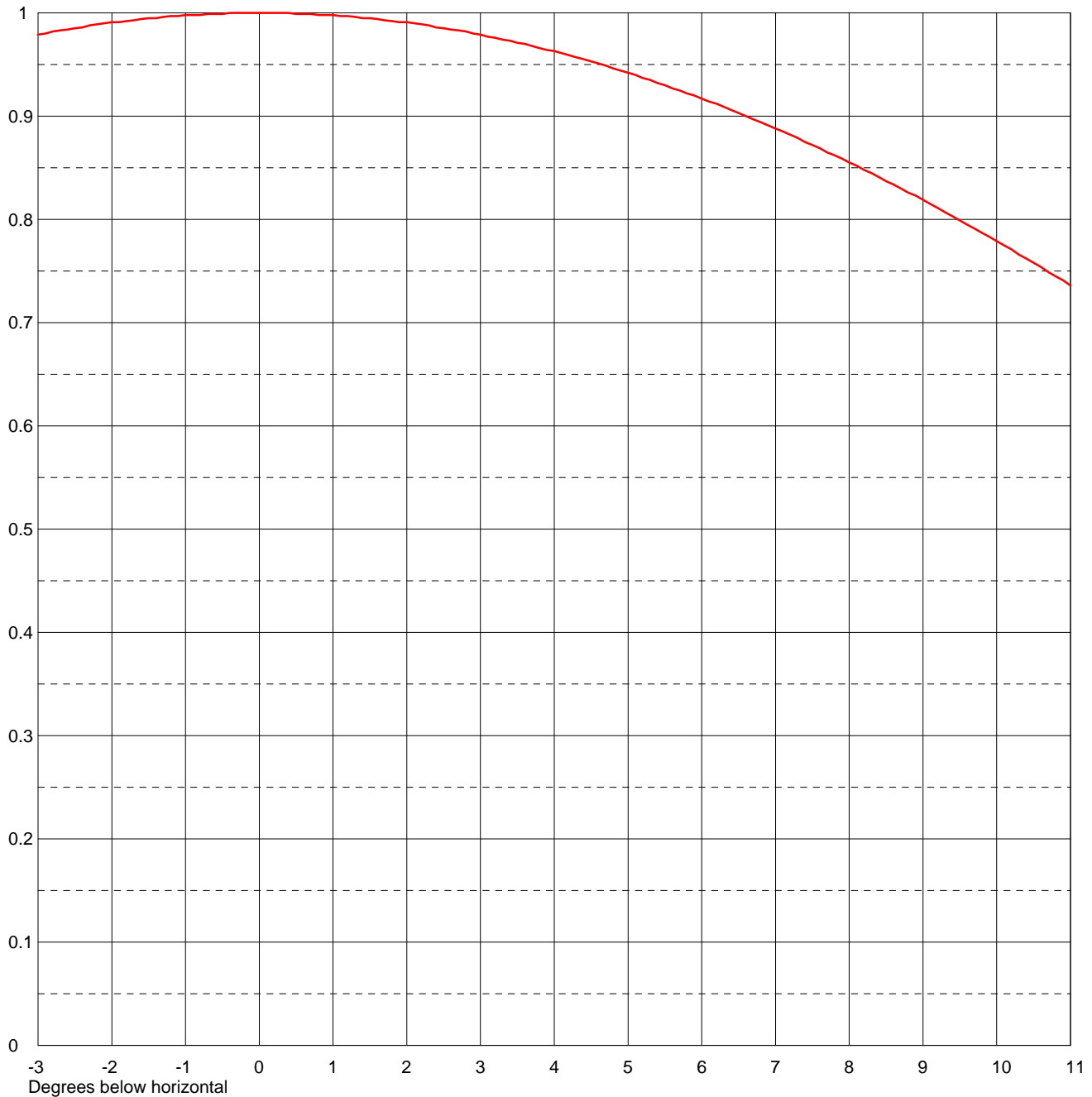


Date
Call Letters
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Antenna Type

03 Jan 2003
WVSX-DT Channel **8**
Lewisburg, WV
High Mountain Broadcasting Corp.
TF-2HT

ELEVATION PATTERN

RMS Gain at Main Lobe	2.1 (3.22 dB)	Beam Tilt	0.00 Degrees
RMS Gain at Horizontal	2.1 (3.22 dB)	Frequency	183.00 MHz
Calculated / Measured	Calculated	Drawing #	02S02100



Remarks:

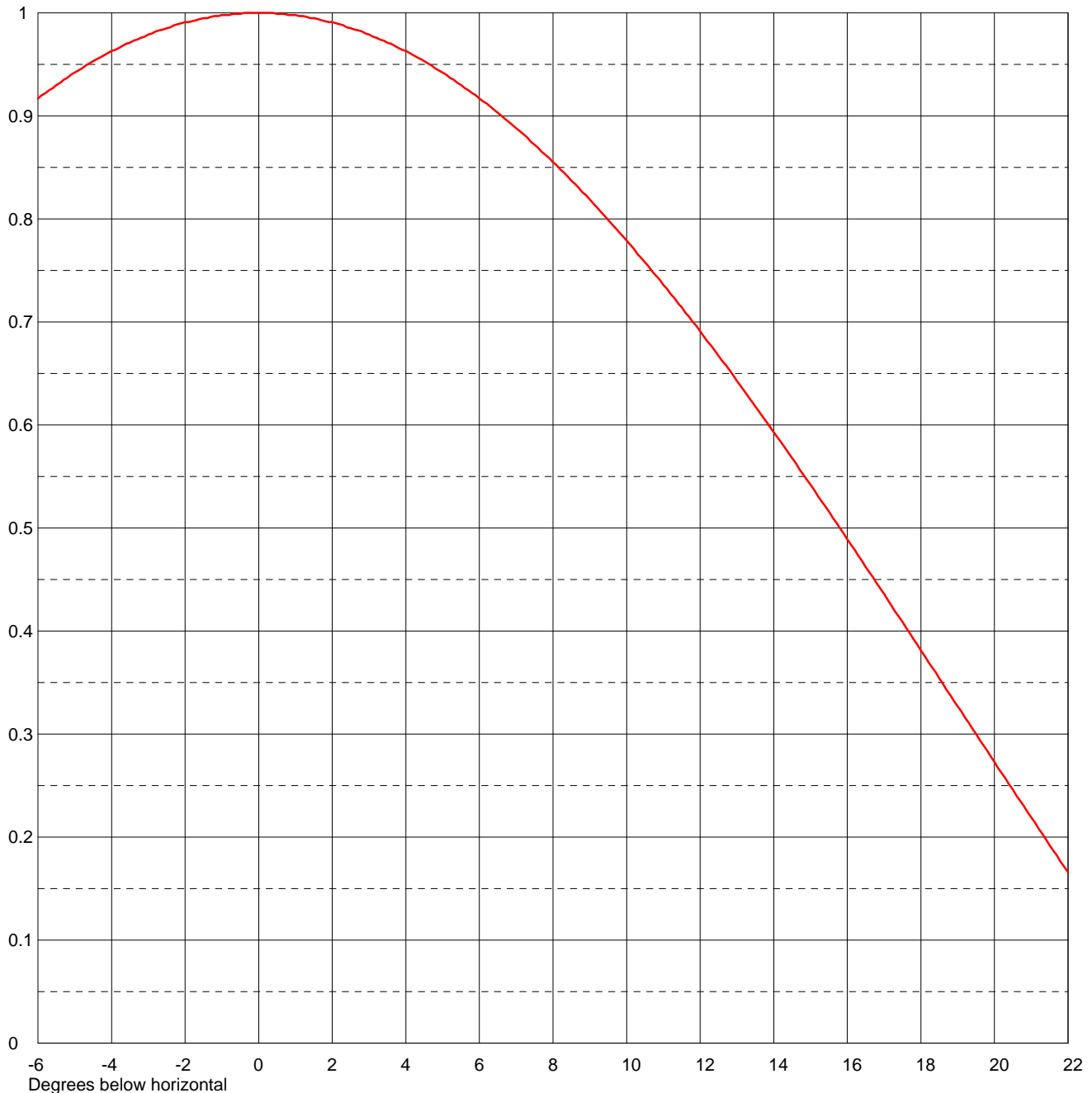


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Call Letters
Location
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Antenna Type

03 Jan 2003
WVSX-DT Channel **8**
Lewisburg, WV
High Mountain Broadcasting Corp.
TF-2HT

ELEVATION PATTERN

RMS Gain at Main Lobe	2.1 (3.22 dB)	Beam Tilt	0.00 Degrees
RMS Gain at Horizontal	2.1 (3.22 dB)	Frequency	183.00 MHz
Calculated / Measured	Calculated	Drawing #	02S02100



Remarks:



Date
Call Letters
Location
Customer
Antenna Type

03 Jan 2003
WVSX-DT Channel **8**
Lewisburg, WV
High Mountain Broadcasting Corp.
TF-2HT

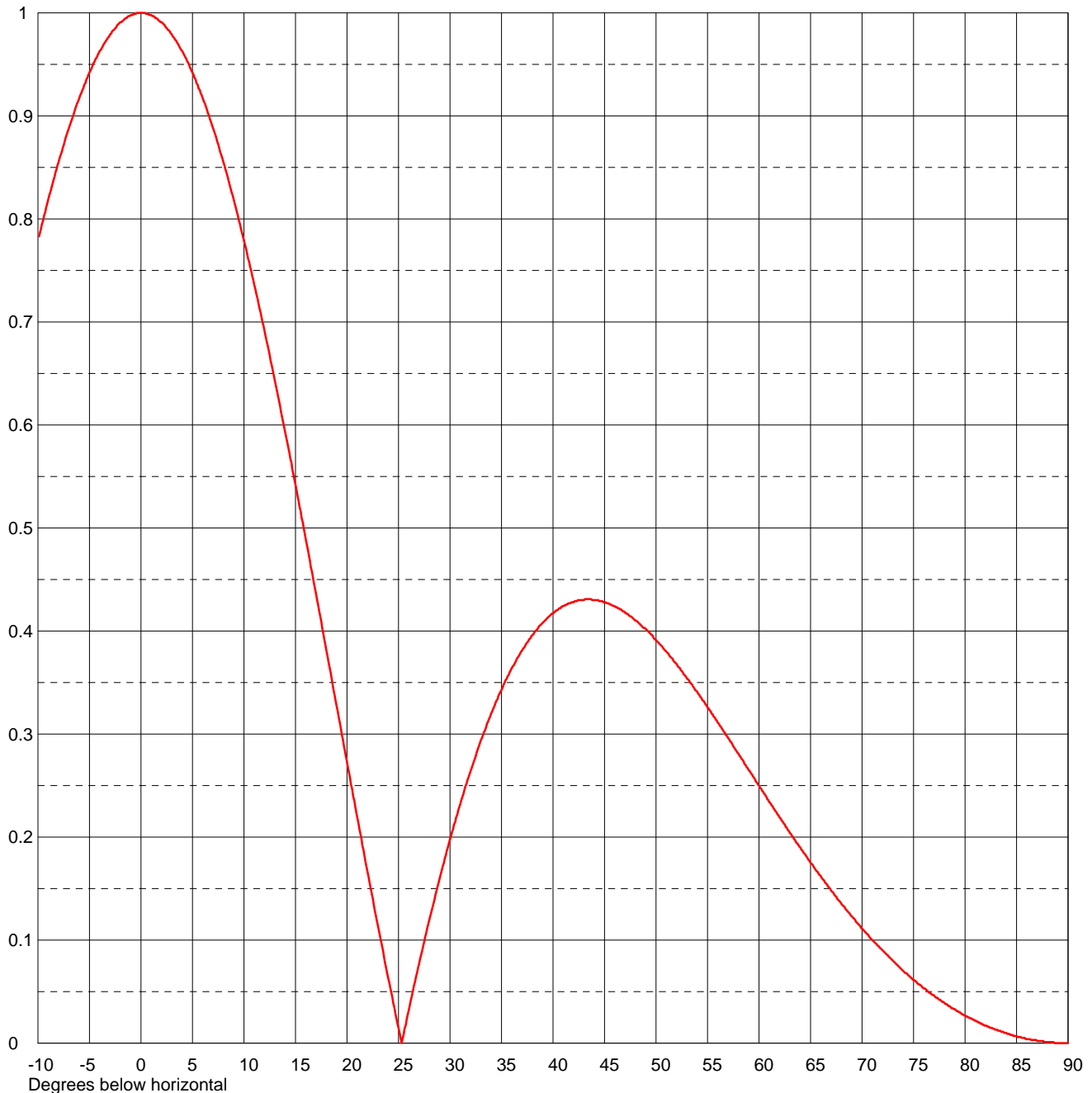
ELEVATION PATTERN

RMS Gain at Main Lobe
RMS Gain at Horizontal
Calculated / Measured

2.1 (3.22 dB)
2.1 (3.22 dB)
Calculated

Beam Tilt
Frequency
Drawing #

0.00 Degrees
183.00 MHz
02S02100-90



Remarks:



Date **03 Jan 2003**
 Call Letters **WVSX-DT** Channel **8**
 Location **Lewisburg, WV**
 Customer **High Mountain Broadcasting Corp.**
 Antenna Type **TF-2HT**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **02S02100-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.779	2.4	0.986	10.6	0.754	30.5	0.215	51.0	0.380	71.5	0.095
-9.5	0.799	2.6	0.984	10.8	0.745	31.0	0.232	51.5	0.374	72.0	0.090
-9.0	0.819	2.8	0.982	11.0	0.736	31.5	0.249	52.0	0.368	72.5	0.085
-8.5	0.837	3.0	0.979	11.5	0.714	32.0	0.264	52.5	0.361	73.0	0.080
-8.0	0.855	3.2	0.976	12.0	0.691	32.5	0.279	53.0	0.354	73.5	0.075
-7.5	0.872	3.4	0.973	12.5	0.667	33.0	0.294	53.5	0.348	74.0	0.070
-7.0	0.888	3.6	0.970	13.0	0.643	33.5	0.307	54.0	0.341	74.5	0.066
-6.5	0.903	3.8	0.966	13.5	0.618	34.0	0.320	54.5	0.333	75.0	0.061
-6.0	0.917	4.0	0.963	14.0	0.593	34.5	0.332	55.0	0.326	75.5	0.057
-5.5	0.930	4.2	0.959	14.5	0.568	35.0	0.343	55.5	0.319	76.0	0.053
-5.0	0.942	4.4	0.955	15.0	0.542	35.5	0.354	56.0	0.311	76.5	0.049
-4.5	0.953	4.6	0.951	15.5	0.516	36.0	0.364	56.5	0.304	77.0	0.046
-4.0	0.963	4.8	0.946	16.0	0.489	36.5	0.373	57.0	0.296	77.5	0.042
-3.5	0.971	5.0	0.942	16.5	0.462	37.0	0.381	57.5	0.288	78.0	0.039
-3.0	0.979	5.2	0.937	17.0	0.436	37.5	0.389	58.0	0.281	78.5	0.036
-2.8	0.982	5.4	0.932	17.5	0.409	38.0	0.396	58.5	0.273	79.0	0.033
-2.6	0.984	5.6	0.927	18.0	0.381	38.5	0.402	59.0	0.265	79.5	0.030
-2.4	0.986	5.8	0.922	18.5	0.354	39.0	0.408	59.5	0.258	80.0	0.027
-2.2	0.989	6.0	0.917	19.0	0.327	39.5	0.413	60.0	0.250	80.5	0.024
-2.0	0.991	6.2	0.912	19.5	0.300	40.0	0.417	60.5	0.242	81.0	0.022
-1.8	0.992	6.4	0.906	20.0	0.273	40.5	0.421	61.0	0.234	81.5	0.019
-1.6	0.994	6.6	0.900	20.5	0.246	41.0	0.424	61.5	0.227	82.0	0.017
-1.4	0.995	6.8	0.894	21.0	0.219	41.5	0.427	62.0	0.219	82.5	0.015
-1.2	0.997	7.0	0.888	21.5	0.192	42.0	0.428	62.5	0.212	83.0	0.013
-1.0	0.998	7.2	0.882	22.0	0.166	42.5	0.430	63.0	0.204	83.5	0.011
-0.8	0.998	7.4	0.875	22.5	0.140	43.0	0.430	63.5	0.197	84.0	0.010
-0.6	0.999	7.6	0.869	23.0	0.114	43.5	0.431	64.0	0.190	84.5	0.008
-0.4	1.000	7.8	0.862	23.5	0.089	44.0	0.430	64.5	0.183	85.0	0.007
-0.2	1.000	8.0	0.855	24.0	0.063	44.5	0.429	65.0	0.175	85.5	0.005
0.0	1.000	8.2	0.848	24.5	0.039	45.0	0.428	65.5	0.168	86.0	0.004
0.2	1.000	8.4	0.841	25.0	0.015	45.5	0.426	66.0	0.162	86.5	0.003
0.4	1.000	8.6	0.834	25.5	0.009	46.0	0.424	66.5	0.155	87.0	0.002
0.6	0.999	8.8	0.826	26.0	0.032	46.5	0.421	67.0	0.148	87.5	0.002
0.8	0.998	9.0	0.819	26.5	0.055	47.0	0.418	67.5	0.142	88.0	0.001
1.0	0.998	9.2	0.811	27.0	0.077	47.5	0.414	68.0	0.135	88.5	0.001
1.2	0.997	9.4	0.803	27.5	0.099	48.0	0.410	68.5	0.129	89.0	0.000
1.4	0.995	9.6	0.795	28.0	0.120	48.5	0.406	69.0	0.123	89.5	0.000
1.6	0.994	9.8	0.787	28.5	0.140	49.0	0.402	69.5	0.117	90.0	0.000
1.8	0.992	10.0	0.779	29.0	0.160	49.5	0.397	70.0	0.111		
2.0	0.991	10.2	0.771	29.5	0.179	50.0	0.391	70.5	0.106		
2.2	0.989	10.4	0.762	30.0	0.198	50.5	0.386	71.0	0.100		

Remarks:



SYSTEM SUMMARY

Antenna:

Type:	TF-2HT	ERP:	3.7 kW	H Pol (5.68 dBk)
Channel:	8	RMS Gain*:	2.1	(3.22 dB)
Location:	Lewisburg, WV	Input Power:	1.76 kW	(2.46 dBk)

Transmission Line:

Type:	EIA Style Rigid TL	Attenuation:	0.39 dB
Size:	3" 50 ohm	Efficiency:	91.3%
Length	295 ft	90 m	

Transmitter:

Average Power Required: 1.93 kW (2.86 dBk)

* Gain is with respect to half wave dipole.



MECHANICAL SPECIFICATIONS

Antenna:

Type: **TF-2HT**
Channel: **8**
Location: **Lewisburg, WV**

Antenna Length (H2): **16.0 ft**
With Lightning Protector (H4): **20.0 ft**
Center of Radiation (H3): **9.3 ft**

Weight: **900 lbs**

EIA-222F Specification

per EIA 222-F at 70 mi/h

Force Coef x Projected Area: **20.0 ft²**
Moment Arm: **8.9 ft**