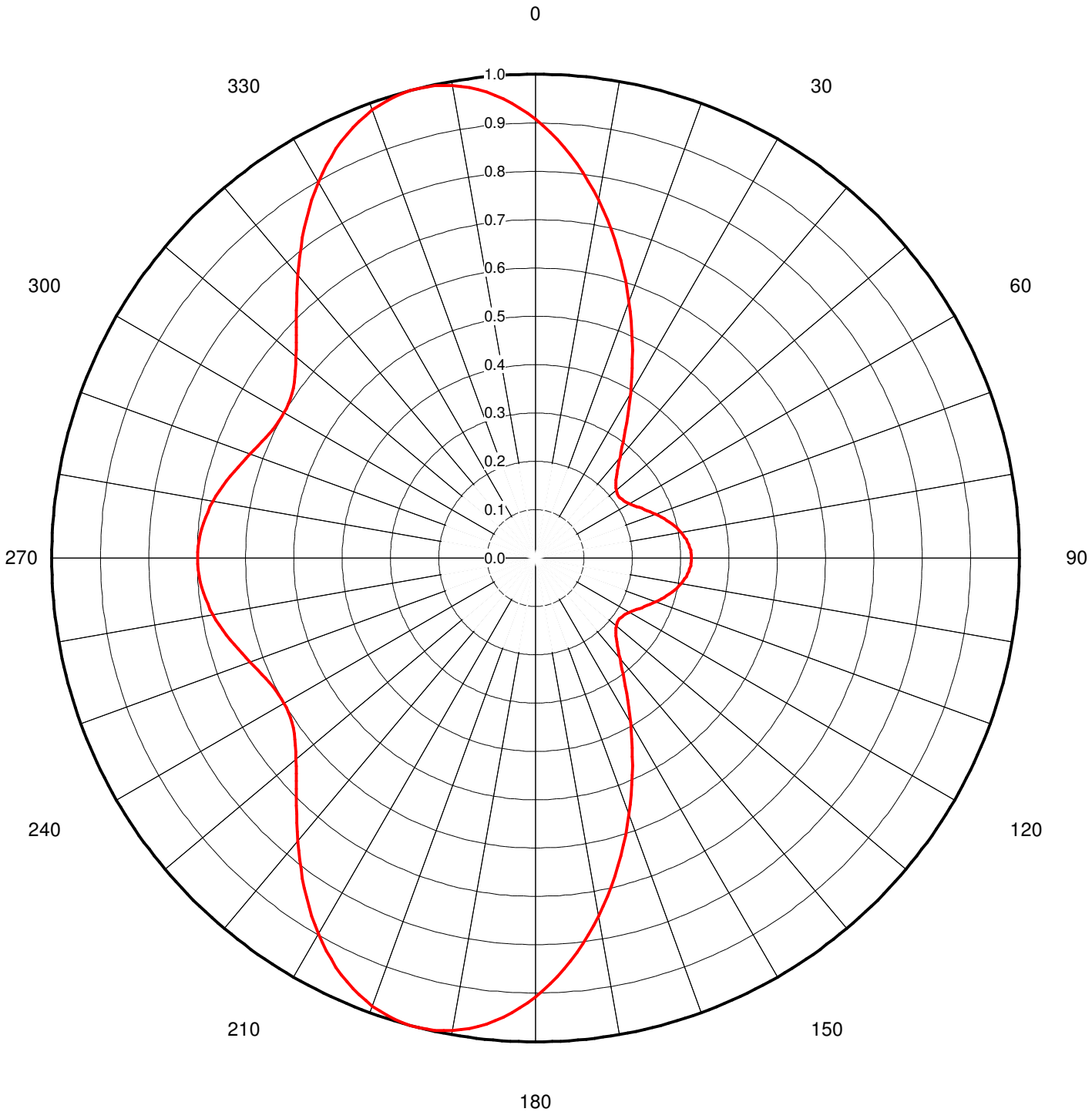
Dielectric

Pattern to be Rotated 180°

Proposal Number	**C-02472**		
Date	**24-Mar-08**		
Call Letters	**WPEC**	Channel	**13**
Location	**West Palm Beach, FL**		
Customer	**Freedom Communications**		
Antenna Type	**THV-6A13/VP-R BP240**		

AZIMUTH PATTERN

Gain	**2.40**	**(3.80 dB)**	
Calculated / Measured	**Calculated**		
Frequency	**213.00 MHz**		
Drawing #	**THV-BP240 HP**		



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Proposal Number	**C-02472**
Date	**24-Mar-08**
Call Letters	**WPEC** Channel **13**
Location	**West Palm Beach, FL**
Customer	**Freedom Communications**
Antenna Type	**THV-6A13/VP-R BP240**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **THV-BP240 HP**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.907	45	0.236	90	0.322	135	0.236	180	0.907	225	0.699	270	0.698	315	0.699
1	0.894	46	0.231	91	0.322	136	0.242	181	0.919	226	0.687	271	0.698	316	0.711
2	0.880	47	0.227	92	0.322	137	0.248	182	0.930	227	0.676	272	0.697	317	0.724
3	0.866	48	0.223	93	0.321	138	0.255	183	0.941	228	0.665	273	0.696	318	0.737
4	0.851	49	0.220	94	0.319	139	0.263	184	0.951	229	0.655	274	0.695	319	0.751
5	0.836	50	0.218	95	0.318	140	0.272	185	0.960	230	0.646	275	0.693	320	0.764
6	0.820	51	0.216	96	0.316	141	0.281	186	0.968	231	0.638	276	0.690	321	0.778
7	0.803	52	0.215	97	0.314	142	0.291	187	0.975	232	0.630	277	0.687	322	0.792
8	0.786	53	0.214	98	0.311	143	0.301	188	0.981	233	0.623	278	0.684	323	0.806
9	0.769	54	0.214	99	0.308	144	0.312	189	0.987	234	0.617	279	0.681	324	0.819
10	0.751	55	0.215	100	0.305	145	0.324	190	0.991	235	0.612	280	0.677	325	0.833
11	0.733	56	0.216	101	0.302	146	0.337	191	0.995	236	0.608	281	0.673	326	0.847
12	0.715	57	0.217	102	0.299	147	0.350	192	0.998	237	0.605	282	0.668	327	0.860
13	0.697	58	0.219	103	0.295	148	0.364	193	0.999	238	0.602	283	0.664	328	0.873
14	0.678	59	0.221	104	0.291	149	0.378	194	1.000	239	0.601	284	0.659	329	0.885
15	0.659	60	0.224	105	0.287	150	0.393	195	1.000	240	0.600	285	0.654	330	0.897
16	0.640	61	0.227	106	0.282	151	0.408	196	0.999	241	0.600	286	0.649	331	0.909
17	0.621	62	0.231	107	0.278	152	0.424	197	0.997	242	0.601	287	0.643	332	0.920
18	0.602	63	0.234	108	0.273	153	0.440	198	0.994	243	0.603	288	0.638	333	0.931
19	0.583	64	0.238	109	0.269	154	0.457	199	0.990	244	0.605	289	0.633	334	0.941
20	0.565	65	0.242	110	0.264	155	0.474	200	0.985	245	0.608	290	0.628	335	0.950
21	0.546	66	0.246	111	0.260	156	0.492	201	0.980	246	0.611	291	0.624	336	0.958
22	0.528	67	0.251	112	0.255	157	0.510	202	0.973	247	0.615	292	0.619	337	0.966
23	0.510	68	0.255	113	0.251	158	0.528	203	0.966	248	0.619	293	0.615	338	0.973
24	0.492	69	0.260	114	0.246	159	0.546	204	0.958	249	0.623	294	0.611	339	0.980
25	0.474	70	0.264	115	0.242	160	0.565	205	0.950	250	0.628	295	0.608	340	0.985
26	0.457	71	0.269	116	0.238	161	0.583	206	0.941	251	0.633	296	0.605	341	0.990
27	0.440	72	0.273	117	0.234	162	0.602	207	0.931	252	0.638	297	0.603	342	0.994
28	0.424	73	0.278	118	0.231	163	0.621	208	0.920	253	0.643	298	0.601	343	0.997
29	0.408	74	0.282	119	0.227	164	0.640	209	0.909	254	0.649	299	0.600	344	0.999
30	0.393	75	0.287	120	0.224	165	0.659	210	0.897	255	0.654	300	0.600	345	1.000
31	0.378	76	0.291	121	0.221	166	0.678	211	0.885	256	0.659	301	0.601	346	1.000
32	0.364	77	0.295	122	0.219	167	0.697	212	0.873	257	0.664	302	0.602	347	0.999
33	0.350	78	0.299	123	0.217	168	0.715	213	0.860	258	0.668	303	0.605	348	0.998
34	0.337	79	0.302	124	0.216	169	0.733	214	0.847	259	0.673	304	0.608	349	0.995
35	0.324	80	0.305	125	0.215	170	0.751	215	0.833	260	0.677	305	0.612	350	0.991
36	0.312	81	0.308	126	0.214	171	0.769	216	0.819	261	0.681	306	0.617	351	0.987
37	0.301	82	0.311	127	0.214	172	0.786	217	0.806	262	0.684	307	0.623	352	0.981
38	0.291	83	0.314	128	0.215	173	0.803	218	0.792	263	0.687	308	0.630	353	0.975
39	0.281	84	0.316	129	0.216	174	0.820	219	0.778	264	0.690	309	0.638	354	0.968
40	0.272	85	0.318	130	0.218	175	0.836	220	0.764	265	0.693	310	0.646	355	0.960
41	0.263	86	0.319	131	0.220	176	0.851	221	0.751	266	0.695	311	0.655	356	0.951
42	0.255	87	0.321	132	0.223	177	0.866	222	0.737	267	0.696	312	0.665	357	0.941
43	0.248	88	0.322	133	0.227	178	0.880	223	0.724	268	0.697	313	0.676	358	0.930
44	0.242	89	0.322	134	0.231	179	0.894	224	0.711	269	0.698	314	0.687	359	0.919

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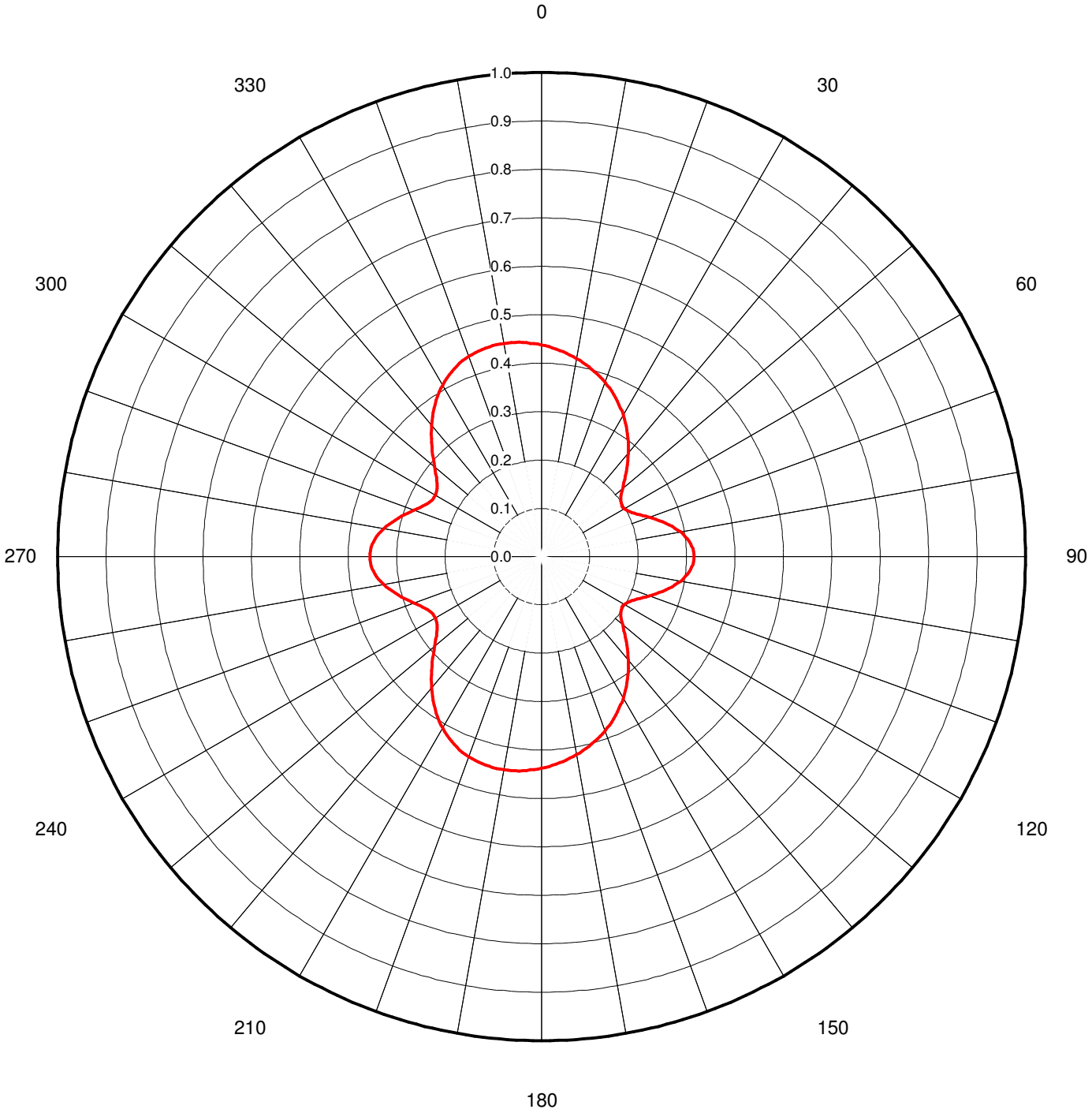
Dielectric

Proposal Number	**C-02472**		
Date	**24-Mar-08**		
Call Letters	**WPEC**	Channel	**13**
Location	**West Palm Beach, FL**		
Customer	**Freedom Communications**		
Antenna Type	**THV-6A13/VP-R BP240**		

AZIMUTH PATTERN/VERTICAL POLARIZATION

Gain	**1.70**	**(2.30 dB)**	
Calculated / Measured	**Calculated**		
Frequency	**213.00 MHz**		
Drawing #	**THV-BP170 VP**		



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Dielectric

Proposal Number	**C-02472**
Date	**24-Mar-08**
Call Letters	**WPEC** Channel **13**
Location	**West Palm Beach, FL**
Customer	**Freedom Communications**
Antenna Type	**THV-6A13/VP-R BP240**

TABULATION OF AZIMUTH PATTERN/VERTICAL POLARIZATION

Azimuth Pattern Drawing #: **THV-BP170 VP**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.437	45	0.247	90	0.315	135	0.247	180	0.437	225	0.320	270	0.355	315	0.320
1	0.435	46	0.241	91	0.315	136	0.253	181	0.439	226	0.314	271	0.355	316	0.327
2	0.434	47	0.235	92	0.314	137	0.259	182	0.440	227	0.307	272	0.354	317	0.334
3	0.432	48	0.229	93	0.313	138	0.266	183	0.442	228	0.301	273	0.353	318	0.341
4	0.430	49	0.224	94	0.311	139	0.272	184	0.443	229	0.294	274	0.351	319	0.347
5	0.428	50	0.219	95	0.309	140	0.278	185	0.444	230	0.288	275	0.349	320	0.354
6	0.425	51	0.214	96	0.306	141	0.285	186	0.445	231	0.283	276	0.346	321	0.360
7	0.423	52	0.210	97	0.303	142	0.291	187	0.446	232	0.277	277	0.343	322	0.367
8	0.421	53	0.206	98	0.300	143	0.297	188	0.446	233	0.272	278	0.340	323	0.373
9	0.418	54	0.203	99	0.296	144	0.303	189	0.447	234	0.268	279	0.336	324	0.379
10	0.415	55	0.200	100	0.292	145	0.309	190	0.447	235	0.264	280	0.332	325	0.384
11	0.413	56	0.198	101	0.287	146	0.315	191	0.447	236	0.260	281	0.327	326	0.390
12	0.410	57	0.197	102	0.282	147	0.321	192	0.447	237	0.258	282	0.322	327	0.395
13	0.407	58	0.196	103	0.277	148	0.326	193	0.447	238	0.255	283	0.317	328	0.400
14	0.404	59	0.196	104	0.272	149	0.332	194	0.447	239	0.254	284	0.312	329	0.405
15	0.401	60	0.197	105	0.266	150	0.337	195	0.446	240	0.253	285	0.307	330	0.409
16	0.397	61	0.199	106	0.260	151	0.343	196	0.445	241	0.253	286	0.301	331	0.413
17	0.394	62	0.201	107	0.254	152	0.348	197	0.444	242	0.254	287	0.296	332	0.417
18	0.390	63	0.204	108	0.249	153	0.353	198	0.443	243	0.255	288	0.291	333	0.421
19	0.387	64	0.207	109	0.243	154	0.357	199	0.442	244	0.257	289	0.285	334	0.425
20	0.383	65	0.211	110	0.237	155	0.362	200	0.440	245	0.260	290	0.280	335	0.428
21	0.379	66	0.216	111	0.231	156	0.366	201	0.438	246	0.263	291	0.275	336	0.431
22	0.375	67	0.221	112	0.226	157	0.371	202	0.436	247	0.267	292	0.271	337	0.433
23	0.371	68	0.226	113	0.221	158	0.375	203	0.433	248	0.271	293	0.267	338	0.436
24	0.366	69	0.231	114	0.216	159	0.379	204	0.431	249	0.275	294	0.263	339	0.438
25	0.362	70	0.237	115	0.211	160	0.383	205	0.428	250	0.280	295	0.260	340	0.440
26	0.357	71	0.243	116	0.207	161	0.387	206	0.425	251	0.285	296	0.257	341	0.442
27	0.353	72	0.249	117	0.204	162	0.390	207	0.421	252	0.291	297	0.255	342	0.443
28	0.348	73	0.254	118	0.201	163	0.394	208	0.417	253	0.296	298	0.254	343	0.444
29	0.343	74	0.260	119	0.199	164	0.397	209	0.413	254	0.301	299	0.253	344	0.445
30	0.337	75	0.266	120	0.197	165	0.401	210	0.409	255	0.307	300	0.253	345	0.446
31	0.332	76	0.272	121	0.196	166	0.404	211	0.405	256	0.312	301	0.254	346	0.447
32	0.326	77	0.277	122	0.196	167	0.407	212	0.400	257	0.317	302	0.255	347	0.447
33	0.321	78	0.282	123	0.197	168	0.410	213	0.395	258	0.322	303	0.258	348	0.447
34	0.315	79	0.287	124	0.198	169	0.413	214	0.390	259	0.327	304	0.260	349	0.447
35	0.309	80	0.292	125	0.200	170	0.415	215	0.384	260	0.332	305	0.264	350	0.447
36	0.303	81	0.296	126	0.203	171	0.418	216	0.379	261	0.336	306	0.268	351	0.447
37	0.297	82	0.300	127	0.206	172	0.421	217	0.373	262	0.340	307	0.272	352	0.446
38	0.291	83	0.303	128	0.210	173	0.423	218	0.367	263	0.343	308	0.277	353	0.446
39	0.285	84	0.306	129	0.214	174	0.425	219	0.360	264	0.346	309	0.283	354	0.445
40	0.278	85	0.309	130	0.219	175	0.428	220	0.354	265	0.349	310	0.288	355	0.444
41	0.272	86	0.311	131	0.224	176	0.430	221	0.347	266	0.351	311	0.294	356	0.443
42	0.266	87	0.313	132	0.229	177	0.432	222	0.341	267	0.353	312	0.301	357	0.442
43	0.259	88	0.314	133	0.235	178	0.434	223	0.334	268	0.354	313	0.307	358	0.440
44	0.253	89	0.315	134	0.241	179	0.435	224	0.327	269	0.355	314	0.314	359	0.439

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Proposal Number	**C-02472**		
Date	**24-Mar-08**		
Call Letters	**WPEC**	Channel	**13**
Location	**West Palm Beach, FL**		
Customer	**Freedom Communications**		
Antenna Type	**THV-6A13/VP-R BP240**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**6.00**	**(7.78 dB)**	
RMS Gain at Horizontal	**5.50**	**(7.40 dB)**	
Calculated / Measured	**Calculated**		

Beam Tilt	**1.50 deg**
Frequency	**213.00 MHz**
Drawing #	**06V060150**

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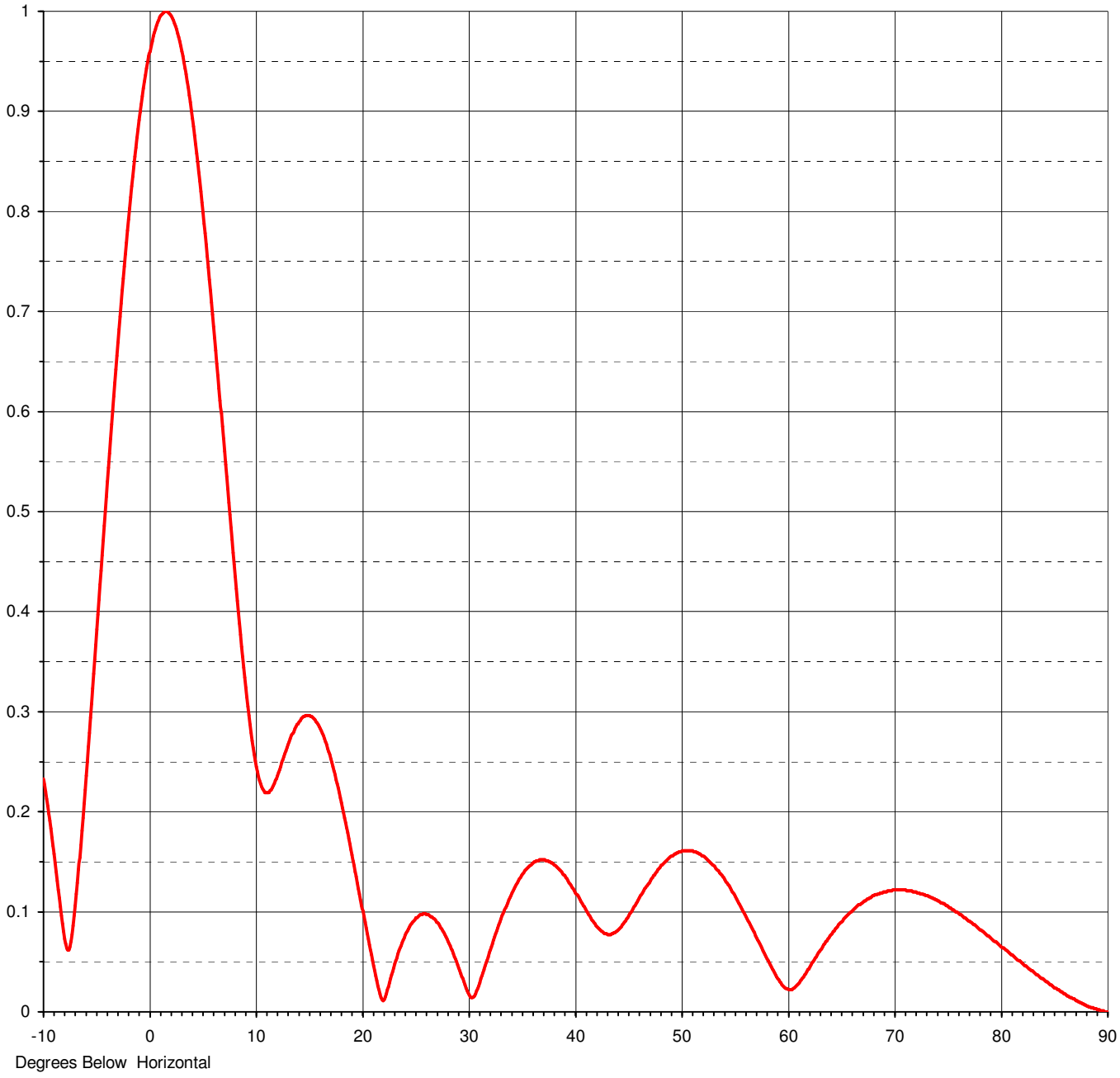
Antenna Type	**THV-6A13/VP-R BP240**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**6.00**	**(7.78 dB)**	Beam Tilt **1.50 deg**
RMS Gain at Horizontal	**5.50**	**(7.40 dB)**	Frequency **213.00 MHz**
Calculated / Measured	**Calculated**		Drawing # **06V060150-90**



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Customer	**Freedom Communications**
Antenna Type	**THV-6A13/VP-R BP240**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **06V060150-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.233	2.4	0.985	10.6	0.225	30.5	0.015	51.0	0.161	71.5	0.121
-9.5	0.198	2.6	0.978	10.8	0.221	31.0	0.026	51.5	0.159	72.0	0.120
-9.0	0.158	2.8	0.970	11.0	0.219	31.5	0.042	52.0	0.156	72.5	0.118
-8.5	0.114	3.0	0.960	11.5	0.222	32.0	0.059	52.5	0.152	73.0	0.116
-8.0	0.073	3.2	0.949	12.0	0.233	32.5	0.075	53.0	0.147	73.5	0.114
-7.5	0.065	3.4	0.937	12.5	0.249	33.0	0.090	53.5	0.141	74.0	0.111
-7.0	0.106	3.6	0.924	13.0	0.264	33.5	0.104	54.0	0.134	74.5	0.108
-6.5	0.167	3.8	0.909	13.5	0.278	34.0	0.116	54.5	0.126	75.0	0.105
-6.0	0.236	4.0	0.893	14.0	0.288	34.5	0.127	55.0	0.117	75.5	0.102
-5.5	0.308	4.2	0.876	14.5	0.295	35.0	0.136	55.5	0.107	76.0	0.098
-5.0	0.382	4.4	0.858	15.0	0.296	35.5	0.143	56.0	0.097	76.5	0.094
-4.5	0.456	4.6	0.839	15.5	0.293	36.0	0.148	56.5	0.087	77.0	0.091
-4.0	0.530	4.8	0.820	16.0	0.285	36.5	0.151	57.0	0.076	77.5	0.087
-3.5	0.601	5.0	0.799	16.5	0.273	37.0	0.152	57.5	0.066	78.0	0.082
-3.0	0.669	5.2	0.778	17.0	0.257	37.5	0.151	58.0	0.055	78.5	0.078
-2.8	0.695	5.4	0.755	17.5	0.237	38.0	0.148	58.5	0.045	79.0	0.074
-2.6	0.721	5.6	0.732	18.0	0.214	38.5	0.143	59.0	0.035	79.5	0.070
-2.4	0.745	5.8	0.709	18.5	0.189	39.0	0.137	59.5	0.027	80.0	0.065
-2.2	0.769	6.0	0.685	19.0	0.162	39.5	0.129	60.0	0.023	80.5	0.061
-2.0	0.792	6.2	0.661	19.5	0.135	40.0	0.121	60.5	0.023	81.0	0.057
-1.8	0.814	6.4	0.636	20.0	0.106	40.5	0.112	61.0	0.028	81.5	0.052
-1.6	0.835	6.6	0.611	20.5	0.078	41.0	0.103	61.5	0.035	82.0	0.048
-1.4	0.855	6.8	0.585	21.0	0.051	41.5	0.094	62.0	0.043	82.5	0.044
-1.2	0.874	7.0	0.560	21.5	0.026	42.0	0.086	62.5	0.052	83.0	0.040
-1.0	0.891	7.2	0.535	22.0	0.011	42.5	0.081	63.0	0.060	83.5	0.036
-0.8	0.907	7.4	0.509	22.5	0.025	43.0	0.078	63.5	0.068	84.0	0.032
-0.6	0.923	7.6	0.484	23.0	0.044	43.5	0.078	64.0	0.076	84.5	0.028
-0.4	0.936	7.8	0.459	23.5	0.061	44.0	0.081	64.5	0.084	85.0	0.024
-0.2	0.949	8.0	0.435	24.0	0.074	44.5	0.087	65.0	0.090	85.5	0.021
0.0	0.960	8.2	0.411	24.5	0.085	45.0	0.094	65.5	0.096	86.0	0.018
0.2	0.970	8.4	0.388	25.0	0.092	45.5	0.103	66.0	0.101	86.5	0.014
0.4	0.979	8.6	0.365	25.5	0.097	46.0	0.112	66.5	0.106	87.0	0.011
0.6	0.986	8.8	0.344	26.0	0.098	46.5	0.121	67.0	0.110	87.5	0.009
0.8	0.991	9.0	0.324	26.5	0.095	47.0	0.129	67.5	0.113	88.0	0.006
1.0	0.996	9.2	0.305	27.0	0.090	47.5	0.137	68.0	0.116	88.5	0.004
1.2	0.998	9.4	0.287	27.5	0.083	48.0	0.144	68.5	0.118	89.0	0.002
1.4	1.000	9.6	0.271	28.0	0.073	48.5	0.150	69.0	0.120	89.5	0.001
1.6	1.000	9.8	0.264	28.5	0.061	49.0	0.155	69.5	0.121	90.0	0.000
1.8	0.998	10.0	0.251	29.0	0.047	49.5	0.158	70.0	0.122		
2.0	0.995	10.2	0.240	29.5	0.033	50.0	0.160	70.5	0.122		
2.2	0.991	10.4	0.231	30.0	0.019	50.5	0.161	71.0	0.122		

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