



Date  
Call Letters  
Location  
Customer  
Antenna Type

13 Jun 2008  
**WGPT**  
**Oakland, MD**  
**TLP-16M**

Channel **36**

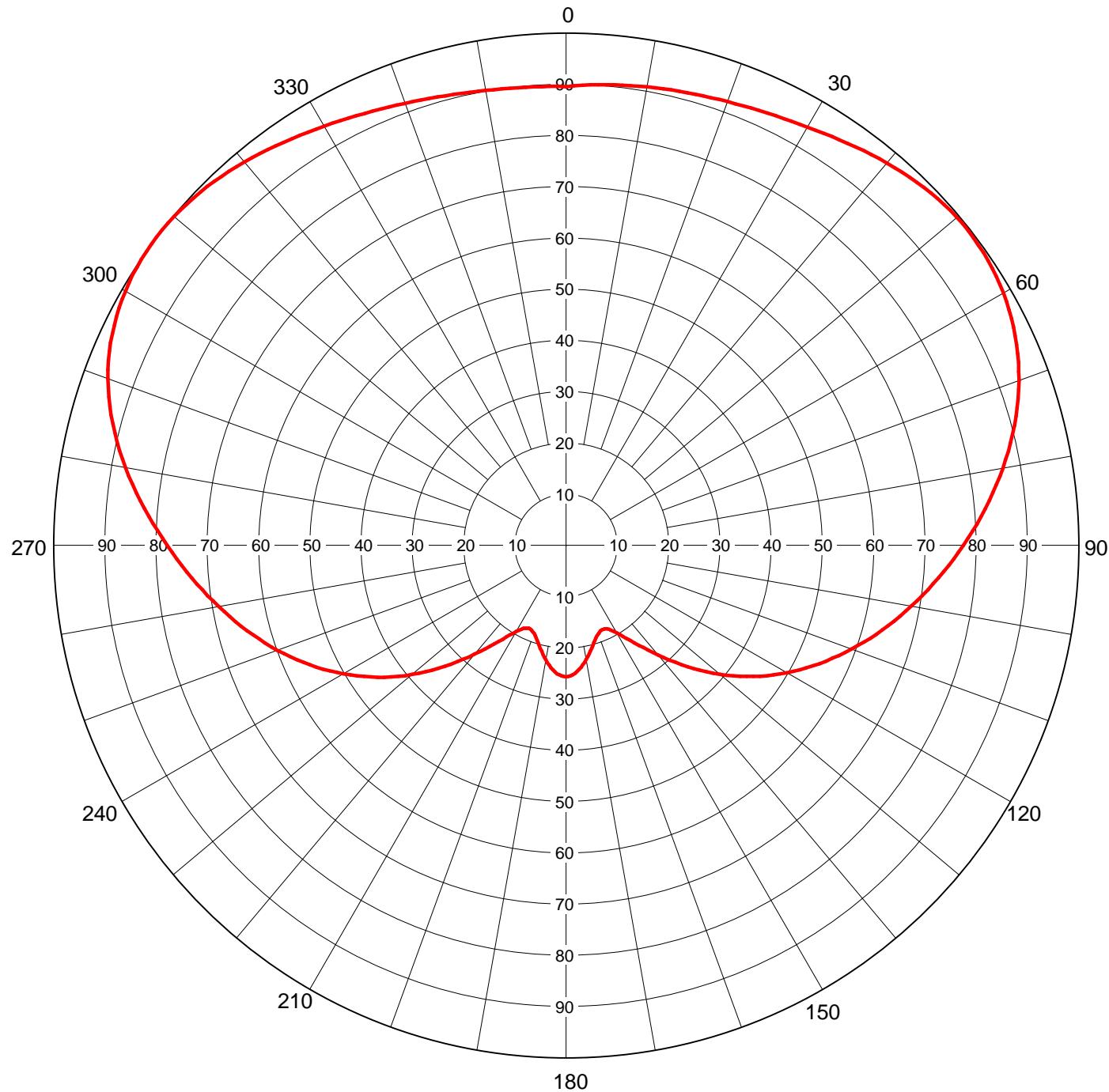
### AZIMUTH PATTERN

Gain  
Calculated / Measured

**1.9 (2.79 dB)**  
**Calculated**

Frequency  
Drawing #

**605 MHz**  
**TLP-M**



Remarks:



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### TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **TLP-M**

Angle	Field																
0	0.895	45	0.988	90	0.775	135	0.335	180	0.257	225	0.334	270	0.778	315	0.990		
1	0.897	46	0.990	91	0.766	136	0.324	181	0.256	226	0.346	271	0.788	316	0.987		
2	0.898	47	0.992	92	0.757	137	0.313	182	0.255	227	0.357	272	0.797	317	0.985		
3	0.900	48	0.993	93	0.748	138	0.302	183	0.253	228	0.369	273	0.807	318	0.982		
4	0.901	49	0.994	94	0.739	139	0.291	184	0.251	229	0.381	274	0.816	319	0.979		
5	0.902	50	0.995	95	0.730	140	0.280	185	0.248	230	0.393	275	0.826	320	0.976		
6	0.904	51	0.996	96	0.720	141	0.270	186	0.245	231	0.404	276	0.835	321	0.973		
7	0.905	52	0.996	97	0.711	142	0.260	187	0.241	232	0.415	277	0.845	322	0.970		
8	0.906	53	0.996	98	0.702	143	0.250	188	0.236	233	0.427	278	0.854	323	0.967		
9	0.907	54	0.996	99	0.693	144	0.241	189	0.232	234	0.438	279	0.863	324	0.964		
10	0.908	55	0.995	100	0.684	145	0.232	190	0.227	235	0.449	280	0.873	325	0.960		
11	0.910	56	0.993	101	0.675	146	0.224	191	0.222	236	0.460	281	0.882	326	0.957		
12	0.911	57	0.992	102	0.666	147	0.216	192	0.217	237	0.470	282	0.890	327	0.954		
13	0.912	58	0.990	103	0.657	148	0.209	193	0.212	238	0.481	283	0.899	328	0.951		
14	0.913	59	0.988	104	0.648	149	0.203	194	0.207	239	0.491	284	0.907	329	0.947		
15	0.914	60	0.985	105	0.639	150	0.197	195	0.202	240	0.502	285	0.916	330	0.944		
16	0.916	61	0.982	106	0.630	151	0.192	196	0.198	241	0.512	286	0.923	331	0.941		
17	0.917	62	0.979	107	0.620	152	0.188	197	0.194	242	0.522	287	0.931	332	0.938		
18	0.918	63	0.975	108	0.611	153	0.184	198	0.190	243	0.532	288	0.938	333	0.935		
19	0.920	64	0.971	109	0.602	154	0.182	199	0.186	244	0.542	289	0.945	334	0.933		
20	0.921	65	0.967	110	0.593	155	0.180	200	0.183	245	0.552	290	0.951	335	0.930		
21	0.923	66	0.962	111	0.583	156	0.179	201	0.181	246	0.561	291	0.957	336	0.927		
22	0.925	67	0.957	112	0.574	157	0.179	202	0.179	247	0.571	292	0.963	337	0.925		
23	0.926	68	0.952	113	0.565	158	0.180	203	0.178	248	0.580	293	0.968	338	0.922		
24	0.928	69	0.946	114	0.555	159	0.182	204	0.178	249	0.590	294	0.972	339	0.920		
25	0.930	70	0.940	115	0.546	160	0.184	205	0.178	250	0.599	295	0.977	340	0.918		
26	0.932	71	0.934	116	0.536	161	0.187	206	0.180	251	0.608	296	0.981	341	0.916		
27	0.935	72	0.927	117	0.527	162	0.190	207	0.182	252	0.617	297	0.984	342	0.914		
28	0.937	73	0.920	118	0.517	163	0.194	208	0.185	253	0.626	298	0.987	343	0.912		
29	0.940	74	0.913	119	0.507	164	0.198	209	0.189	254	0.635	299	0.990	344	0.910		
30	0.942	75	0.906	120	0.497	165	0.202	210	0.194	255	0.644	300	0.993	345	0.908		
31	0.945	76	0.898	121	0.487	166	0.207	211	0.200	256	0.653	301	0.995	346	0.907		
32	0.948	77	0.890	122	0.477	167	0.211	212	0.206	257	0.662	302	0.996	347	0.905		
33	0.951	78	0.882	123	0.467	168	0.216	213	0.214	258	0.671	303	0.998	348	0.904		
34	0.954	79	0.874	124	0.457	169	0.221	214	0.221	259	0.680	304	0.999	349	0.903		
35	0.958	80	0.865	125	0.446	170	0.226	215	0.229	260	0.688	305	1.000	350	0.901		
36	0.961	81	0.857	126	0.436	171	0.231	216	0.238	261	0.697	306	1.000	351	0.900		
37	0.964	82	0.848	127	0.425	172	0.235	217	0.248	262	0.706	307	1.000	352	0.899		
38	0.967	83	0.839	128	0.414	173	0.240	218	0.257	263	0.715	308	1.000	353	0.899		
39	0.971	84	0.830	129	0.403	174	0.244	219	0.267	264	0.724	309	0.999	354	0.898		
40	0.974	85	0.821	130	0.392	175	0.247	220	0.278	265	0.733	310	0.998	355	0.897		
41	0.977	86	0.812	131	0.381	176	0.250	221	0.289	266	0.742	311	0.997	356	0.897		
42	0.980	87	0.803	132	0.370	177	0.253	222	0.300	267	0.751	312	0.996	357	0.896		
43	0.983	88	0.794	133	0.358	178	0.255	223	0.311	268	0.760	313	0.994	358	0.896		
44	0.985	89	0.784	134	0.347	179	0.256	224	0.322	269	0.769	314	0.992	359	0.896		

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### TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **TLP-M**

Angle	Field	ERP (kW)	ERP (dBk)
0	0.895	87.3	19.41
10	0.908	89.9	19.54
20	0.921	92.5	19.66
30	0.942	96.7	19.86
40	0.974	103.4	20.15
50	0.995	107.9	20.33
60	0.985	105.8	20.24
70	0.940	96.3	19.84
80	0.865	81.6	19.11
90	0.775	65.5	18.16
100	0.684	51.0	17.08
110	0.593	38.3	15.84
120	0.497	26.9	14.30
130	0.392	16.7	12.24
140	0.280	8.5	9.32
150	0.197	4.2	6.26
160	0.184	3.7	5.67
170	0.226	5.6	7.46
180	0.257	7.2	8.57
190	0.227	5.6	7.49
200	0.183	3.7	5.62
210	0.194	4.1	6.13
220	0.278	8.4	9.26
230	0.393	16.8	12.26
240	0.502	27.5	14.39
250	0.599	39.1	15.92
260	0.688	51.6	17.13
270	0.778	66.0	18.19
280	0.873	83.1	19.19
290	0.951	98.6	19.94
300	0.993	107.5	20.31
310	0.998	108.6	20.36
320	0.976	103.8	20.16
330	0.944	97.1	19.87
340	0.918	91.9	19.63
350	0.901	88.5	19.47

#### Maxima

Angle	Field	ERP (kW)	ERP (dBk)
52	0.996	108.1	20.34
180	0.257	7.2	8.57
307	1.000	109.0	20.37

#### Minima

Angle	Field	ERP (kW)	ERP (dBk)
156	0.179	3.5	5.43
204	0.178	3.5	5.38

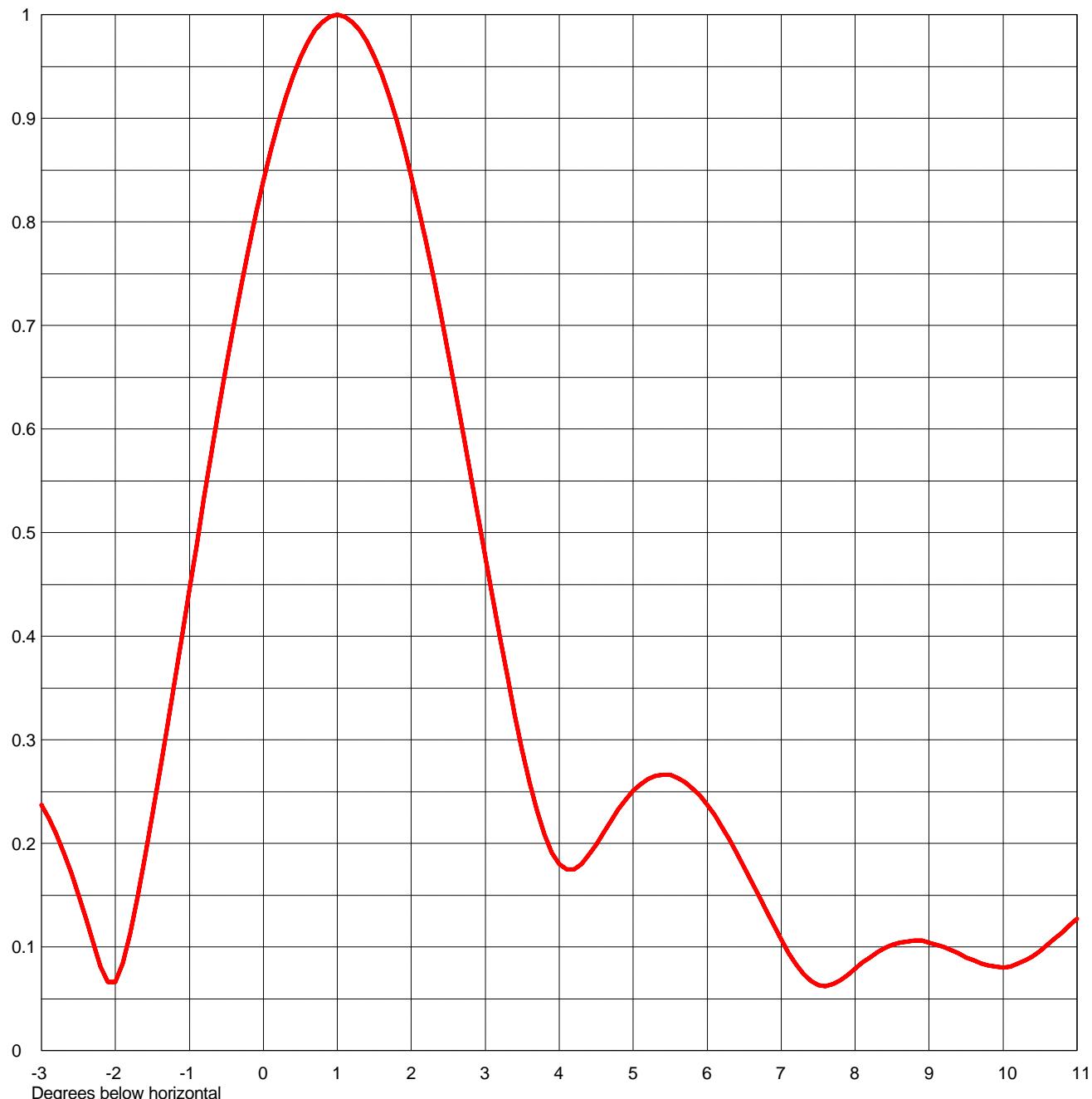
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### ELEVATION PATTERN

RMS Gain at Main Lobe **16.0 (12.04 dB)** Beam Tilt **1.00 Degrees**  
RMS Gain at Horizontal **11.3 (10.53 dB)** Frequency **605.00 MHz**  
Calculated / Measured **Calculated** Drawing # **16L160100**



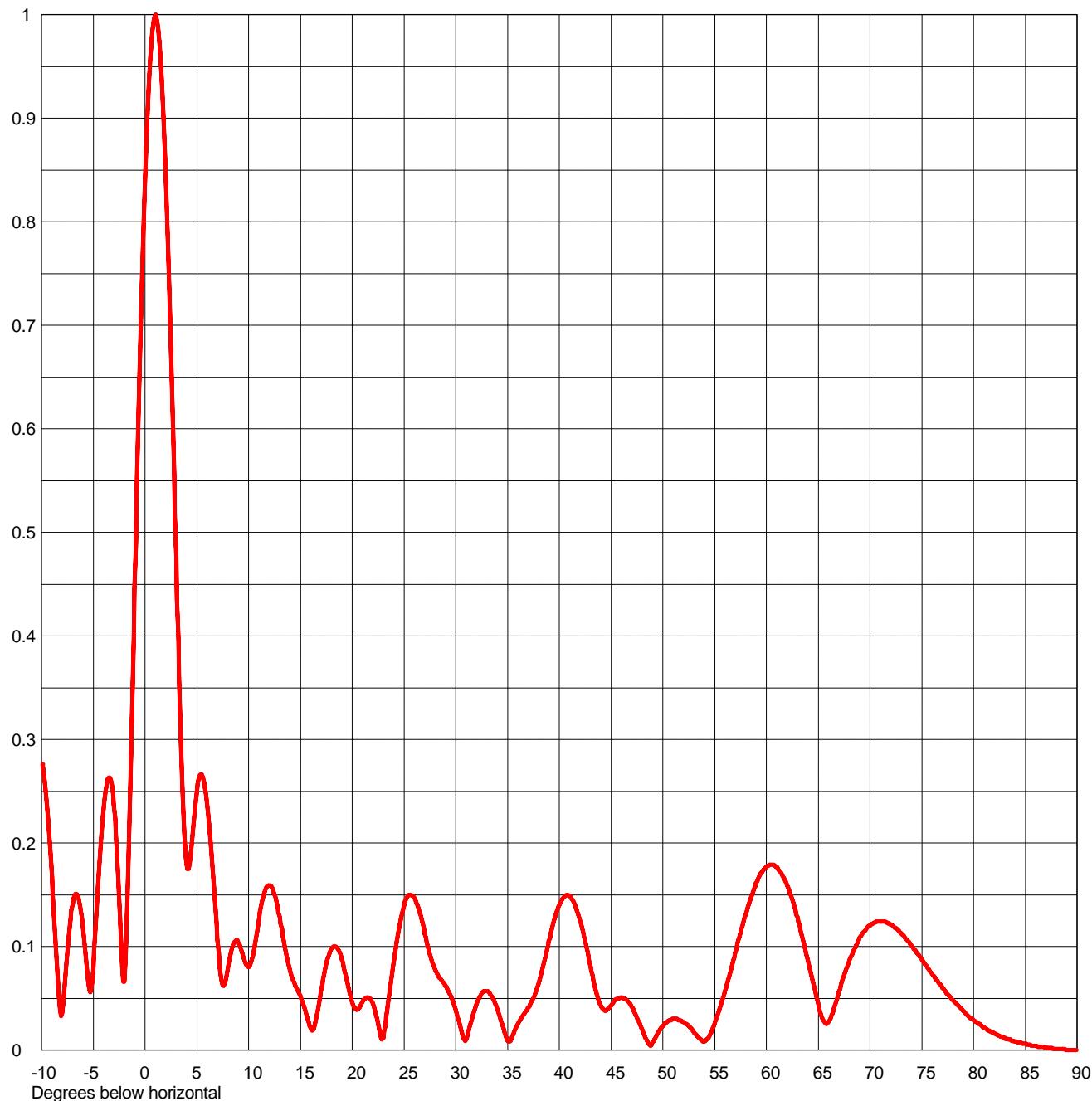
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### ELEVATION PATTERN

RMS Gain at Main Lobe **16.0 (12.04 dB)** Beam Tilt **1.00 Degrees**  
RMS Gain at Horizontal **11.3 (10.53 dB)** Frequency **605.00 MHz**  
Calculated / Measured **Calculated** Drawing # **16L160100-90**



Remarks:



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### TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **16L160100**

Angle	Field										
-10.0	0.283	2.4	0.711	10.6	0.102	30.5	0.020	51.0	0.030	71.5	0.124
-9.5	0.238	2.6	0.635	10.8	0.114	31.0	0.010	51.5	0.029	72.0	0.121
-9.0	0.167	2.8	0.556	11.0	0.127	31.5	0.027	52.0	0.027	72.5	0.118
-8.5	0.083	3.0	0.476	11.5	0.151	32.0	0.044	52.5	0.023	73.0	0.113
-8.0	0.036	3.2	0.397	12.0	0.159	32.5	0.055	53.0	0.017	73.5	0.107
-7.5	0.096	3.4	0.324	12.5	0.150	33.0	0.057	53.5	0.012	74.0	0.101
-7.0	0.141	3.6	0.259	13.0	0.128	33.5	0.052	54.0	0.008	74.5	0.094
-6.5	0.149	3.8	0.209	13.5	0.100	34.0	0.040	54.5	0.014	75.0	0.087
-6.0	0.119	4.0	0.180	14.0	0.077	34.5	0.024	55.0	0.026	75.5	0.081
-5.5	0.066	4.2	0.175	14.5	0.062	35.0	0.009	55.5	0.040	76.0	0.074
-5.0	0.081	4.4	0.189	15.0	0.052	35.5	0.014	56.0	0.057	76.5	0.067
-4.5	0.163	4.6	0.211	15.5	0.038	36.0	0.025	56.5	0.075	77.0	0.060
-4.0	0.233	4.8	0.233	16.0	0.021	36.5	0.034	57.0	0.094	77.5	0.054
-3.5	0.263	5.0	0.251	16.5	0.030	37.0	0.041	57.5	0.113	78.0	0.048
-3.0	0.237	5.2	0.262	17.0	0.057	37.5	0.050	58.0	0.131	78.5	0.043
-2.8	0.209	5.4	0.266	17.5	0.083	38.0	0.064	58.5	0.147	79.0	0.038
-2.6	0.172	5.6	0.263	18.0	0.098	38.5	0.084	59.0	0.161	79.5	0.033
-2.4	0.127	5.8	0.253	18.5	0.099	39.0	0.105	59.5	0.171	80.0	0.029
-2.2	0.081	6.0	0.237	19.0	0.088	39.5	0.125	60.0	0.177	80.5	0.025
-2.0	0.066	6.2	0.216	19.5	0.067	40.0	0.140	60.5	0.179	81.0	0.022
-1.8	0.113	6.4	0.191	20.0	0.046	40.5	0.148	61.0	0.177	81.5	0.019
-1.6	0.187	6.6	0.163	20.5	0.039	41.0	0.149	61.5	0.170	82.0	0.016
-1.4	0.270	6.8	0.135	21.0	0.047	41.5	0.141	62.0	0.159	82.5	0.014
-1.2	0.357	7.0	0.107	21.5	0.051	42.0	0.125	62.5	0.145	83.0	0.012
-1.0	0.446	7.2	0.083	22.0	0.045	42.5	0.105	63.0	0.128	83.5	0.010
-0.8	0.534	7.4	0.067	22.5	0.025	43.0	0.081	63.5	0.108	84.0	0.008
-0.6	0.620	7.6	0.062	23.0	0.012	43.5	0.059	64.0	0.087	84.5	0.007
-0.4	0.700	7.8	0.068	23.5	0.047	44.0	0.043	64.5	0.065	85.0	0.006
-0.2	0.774	8.0	0.079	24.0	0.084	44.5	0.038	65.0	0.044	85.5	0.005
0.0	0.840	8.2	0.090	24.5	0.117	45.0	0.043	65.5	0.029	86.0	0.004
0.2	0.896	8.4	0.099	25.0	0.140	45.5	0.049	66.0	0.027	86.5	0.003
0.4	0.941	8.6	0.104	25.5	0.150	46.0	0.051	66.5	0.040	87.0	0.002
0.6	0.973	8.8	0.106	26.0	0.147	46.5	0.048	67.0	0.056	87.5	0.002
0.8	0.993	9.0	0.104	26.5	0.133	47.0	0.042	67.5	0.072	88.0	0.001
1.0	1.000	9.2	0.100	27.0	0.113	47.5	0.032	68.0	0.086	88.5	0.001
1.2	0.993	9.4	0.094	27.5	0.093	48.0	0.020	68.5	0.098	89.0	0.000
1.4	0.974	9.6	0.087	28.0	0.078	48.5	0.008	69.0	0.108	89.5	0.000
1.6	0.942	9.8	0.082	28.5	0.069	49.0	0.007	69.5	0.115	90.0	0.000
1.8	0.898	10.0	0.080	29.0	0.062	49.5	0.016	70.0	0.120		
2.0	0.844	10.2	0.084	29.5	0.053	50.0	0.023	70.5	0.123		
2.2	0.781	10.4	0.091	30.0	0.039	50.5	0.028	71.0	0.124		

Remarks: