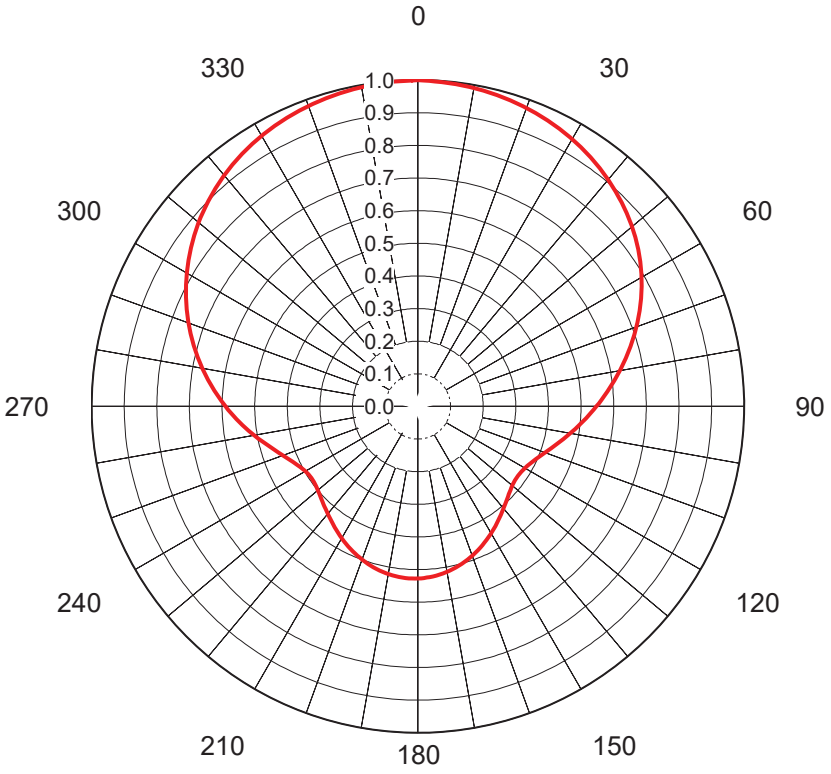
Dielectric®



AZIMUTH PATTERN
Horizontal Polarization

Proposal No.	**C-70286-1**
Date	**2-Mar-17**
Call Letters	**WBMM**
Channel	**18**
Frequency	**497 MHz**
Antenna Type	**TLP-12C**
Gain	**2.09 (3.2dB)**
	Calculated
Drawing #	**TLP-C**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	1.000	36	0.924	72	0.696	108	0.425	144	0.424	180	0.527	216	0.444	252	0.452	288	0.733	324	0.939
1	0.999	37	0.920	73	0.687	109	0.420	145	0.428	181	0.528	217	0.440	253	0.459	289	0.741	325	0.942
2	0.998	38	0.916	74	0.679	110	0.414	146	0.432	182	0.528	218	0.437	254	0.465	290	0.748	326	0.946
3	0.997	39	0.912	75	0.670	111	0.410	147	0.437	183	0.528	219	0.433	255	0.472	291	0.755	327	0.949
4	0.996	40	0.907	76	0.662	112	0.405	148	0.441	184	0.527	220	0.430	256	0.479	292	0.763	328	0.952
5	0.995	41	0.903	77	0.653	113	0.401	149	0.445	185	0.527	221	0.426	257	0.487	293	0.770	329	0.955
6	0.995	42	0.898	78	0.645	114	0.396	150	0.449	186	0.526	222	0.423	258	0.494	294	0.777	330	0.958
7	0.994	43	0.893	79	0.637	115	0.393	151	0.453	187	0.525	223	0.419	259	0.502	295	0.784	331	0.960
8	0.993	44	0.889	80	0.628	116	0.389	152	0.457	188	0.524	224	0.416	260	0.510	296	0.791	332	0.963
9	0.992	45	0.884	81	0.620	117	0.386	153	0.461	189	0.523	225	0.413	261	0.517	297	0.798	333	0.965
10	0.990	46	0.878	82	0.611	118	0.383	154	0.465	190	0.522	226	0.410	262	0.525	298	0.804	334	0.968
11	0.989	47	0.873	83	0.603	119	0.381	155	0.469	191	0.520	227	0.407	263	0.533	299	0.811	335	0.970
12	0.988	48	0.868	84	0.595	120	0.378	156	0.472	192	0.518	228	0.405	264	0.541	300	0.818	336	0.972
13	0.986	49	0.862	85	0.587	121	0.377	157	0.476	193	0.517	229	0.402	265	0.549	301	0.824	337	0.974
14	0.985	50	0.857	86	0.579	122	0.375	158	0.480	194	0.515	230	0.400	266	0.557	302	0.830	338	0.976
15	0.983	51	0.851	87	0.571	123	0.374	159	0.483	195	0.512	231	0.398	267	0.565	303	0.837	339	0.978
16	0.981	52	0.845	88	0.563	124	0.373	160	0.487	196	0.510	232	0.396	268	0.573	304	0.843	340	0.980
17	0.980	53	0.839	89	0.555	125	0.373	161	0.490	197	0.508	233	0.395	269	0.581	305	0.849	341	0.982
18	0.978	54	0.833	90	0.547	126	0.373	162	0.493	198	0.505	234	0.394	270	0.590	306	0.855	342	0.983
19	0.976	55	0.826	91	0.539	127	0.374	163	0.497	199	0.503	235	0.393	271	0.598	307	0.860	343	0.985
20	0.973	56	0.820	92	0.532	128	0.375	164	0.500	200	0.500	236	0.393	272	0.606	308	0.866	344	0.986
21	0.971	57	0.813	93	0.524	129	0.376	165	0.502	201	0.497	237	0.394	273	0.614	309	0.872	345	0.988
22	0.969	58	0.806	94	0.517	130	0.378	166	0.505	202	0.494	238	0.395	274	0.622	310	0.877	346	0.989
23	0.966	59	0.799	95	0.510	131	0.380	167	0.508	203	0.491	239	0.396	275	0.630	311	0.882	347	0.990
24	0.964	60	0.792	96	0.502	132	0.382	168	0.510	204	0.488	240	0.398	276	0.638	312	0.887	348	0.991
25	0.961	61	0.784	97	0.495	133	0.385	169	0.513	205	0.484	241	0.400	277	0.646	313	0.892	349	0.993
26	0.958	62	0.777	98	0.488	134	0.387	170	0.515	206	0.481	242	0.403	278	0.654	314	0.897	350	0.994
27	0.955	63	0.769	99	0.481	135	0.390	171	0.517	207	0.477	243	0.406	279	0.663	315	0.902	351	0.995
28	0.952	64	0.761	100	0.474	136	0.394	172	0.519	208	0.474	244	0.410	280	0.671	316	0.907	352	0.995
29	0.949	65	0.754	101	0.468	137	0.397	173	0.520	209	0.470	245	0.414	281	0.679	317	0.911	353	0.996
30	0.946	66	0.746	102	0.461	138	0.401	174	0.522	210	0.467	246	0.419	282	0.686	318	0.916	354	0.997
31	0.942	67	0.737	103	0.455	139	0.404	175	0.523	211	0.463	247	0.423	283	0.694	319	0.920	355	0.998
32	0.939	68	0.729	104	0.448	140	0.408	176	0.524	212	0.459	248	0.429	284	0.702	320	0.924	356	0.998
33	0.935	69	0.721	105	0.442	141	0.412	177	0.525	213	0.455	249	0.434	285	0.710	321	0.928	357	0.999
34	0.932	70	0.713	106	0.436	142	0.416	178	0.526	214	0.452	250	0.440	286	0.718	322	0.932	358	0.999
35	0.928	71	0.704	107	0.430	143	0.420	179	0.527	215	0.448	251	0.446	287	0.725	323	0.935	359	0.999

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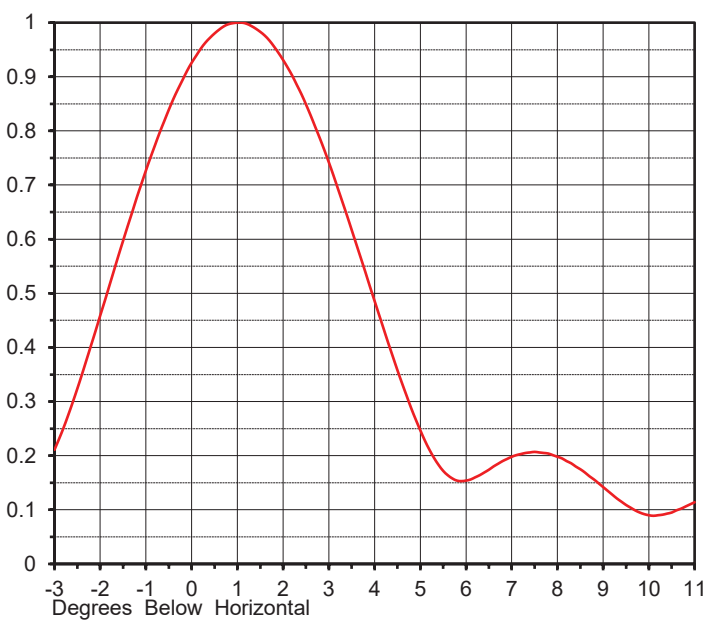
ELEVATION PATTERN

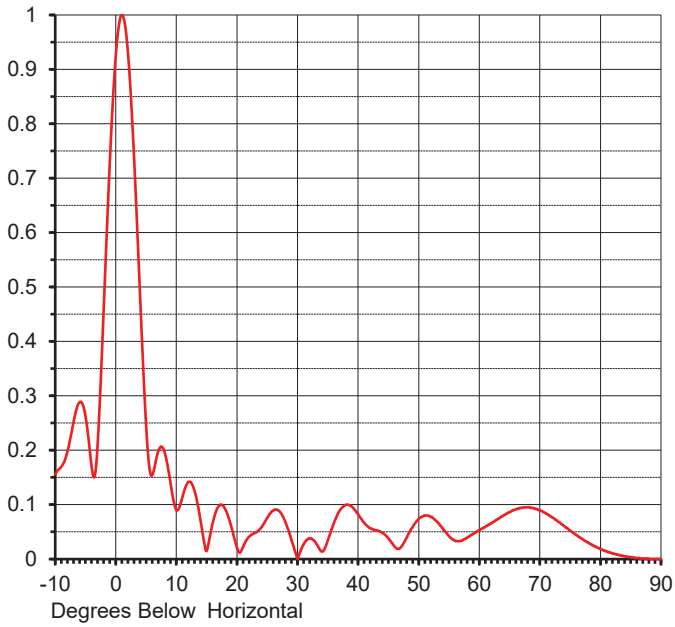
Proposal No.	**C-70286-1**
Date	**2-Mar-17**
Call Letters	**WBMM**
Channel	**18**
Frequency	**497 MHz**
Antenna Type	**TLP-12C**

RMS Directivity at Main Lobe
RMS Directivity at Horizontal

Beam Tilt **12L125100**
Drawing Number

Calculated





Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.156	10.0	0.090	30.0	0.000	50.0	0.074	70.0	0.090
-9.0	0.170	11.0	0.114	31.0	0.027	51.0	0.080	71.0	0.084
-8.0	0.197	12.0	0.142	32.0	0.038	52.0	0.078	72.0	0.077
-7.0	0.250	13.0	0.125	33.0	0.030	53.0	0.069	73.0	0.069
-6.0	0.288	14.0	0.070	34.0	0.014	54.0	0.056	74.0	0.061
-5.0	0.262	15.0	0.015	35.0	0.034	55.0	0.042	75.0	0.052
-4.0	0.171	16.0	0.066	36.0	0.066	56.0	0.034	76.0	0.044
-3.0	0.211	17.0	0.097	37.0	0.090	57.0	0.034	77.0	0.037
-2.0	0.459	18.0	0.093	38.0	0.100	58.0	0.039	78.0	0.030
-1.0	0.727	19.0	0.062	39.0	0.096	59.0	0.046	79.0	0.024
0.0	0.926	20.0	0.021	40.0	0.082	60.0	0.053	80.0	0.019
1.0	1.000	21.0	0.022	41.0	0.067	61.0	0.059	81.0	0.014
2.0	0.931	22.0	0.041	42.0	0.057	62.0	0.066	82.0	0.010
3.0	0.742	23.0	0.048	43.0	0.053	63.0	0.073	83.0	0.008
4.0	0.486	24.0	0.058	44.0	0.048	64.0	0.080	84.0	0.005
5.0	0.247	25.0	0.076	45.0	0.038	65.0	0.086	85.0	0.003
6.0	0.154	26.0	0.089	46.0	0.023	66.0	0.091	86.0	0.002
7.0	0.198	27.0	0.088	47.0	0.021	67.0	0.094	87.0	0.001
8.0	0.198	28.0	0.068	48.0	0.039	68.0	0.095	88.0	0.000
9.0	0.142	29.0	0.035	49.0	0.059	69.0	0.093	89.0	0.000
								90.0	0.000

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