

AZIMUTH PATTERN Horizontal Polarization

In Free Space

Proposal No. **C-70773**
 Date **19-May-17**
 Call Letters **WRMD-CD**
 Channel **30**
 Frequency **569 MHz**
 Antenna Type **TLP-8B**
 Gain **1.89 (2.77dB)**
 Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.570	36	0.541	72	0.560	108	0.547	144	0.558	180	0.710	216	0.904	252	0.997	288	0.928	324	0.746
1	0.568	37	0.542	73	0.560	109	0.546	145	0.560	181	0.716	217	0.908	253	0.998	289	0.924	325	0.740
2	0.566	38	0.543	74	0.560	110	0.545	146	0.562	182	0.722	218	0.912	254	0.999	290	0.920	326	0.734
3	0.564	39	0.544	75	0.560	111	0.544	147	0.564	183	0.728	219	0.916	255	1.000	291	0.916	327	0.728
4	0.562	40	0.545	76	0.560	112	0.543	148	0.566	184	0.734	220	0.920	256	0.999	292	0.912	328	0.722
5	0.560	41	0.546	77	0.560	113	0.542	149	0.568	185	0.740	221	0.924	257	0.998	293	0.908	329	0.716
6	0.558	42	0.547	78	0.560	114	0.541	150	0.570	186	0.746	222	0.928	258	0.997	294	0.904	330	0.710
7	0.556	43	0.548	79	0.560	115	0.540	151	0.572	187	0.752	223	0.932	259	0.996	295	0.900	331	0.704
8	0.554	44	0.549	80	0.560	116	0.540	152	0.574	188	0.758	224	0.936	260	0.995	296	0.896	332	0.698
9	0.552	45	0.550	81	0.560	117	0.540	153	0.576	189	0.764	225	0.940	261	0.994	297	0.892	333	0.692
10	0.550	46	0.551	82	0.560	118	0.540	154	0.578	190	0.770	226	0.944	262	0.993	298	0.888	334	0.686
11	0.548	47	0.552	83	0.560	119	0.540	155	0.580	191	0.776	227	0.948	263	0.992	299	0.884	335	0.680
12	0.546	48	0.553	84	0.560	120	0.540	156	0.584	192	0.782	228	0.952	264	0.991	300	0.880	336	0.674
13	0.544	49	0.554	85	0.560	121	0.540	157	0.588	193	0.788	229	0.956	265	0.990	301	0.876	337	0.668
14	0.542	50	0.555	86	0.560	122	0.540	158	0.592	194	0.794	230	0.960	266	0.989	302	0.872	338	0.662
15	0.540	51	0.556	87	0.560	123	0.540	159	0.596	195	0.800	231	0.964	267	0.988	303	0.868	339	0.656
16	0.540	52	0.557	88	0.560	124	0.540	160	0.600	196	0.806	232	0.968	268	0.987	304	0.864	340	0.650
17	0.540	53	0.558	89	0.560	125	0.540	161	0.604	197	0.812	233	0.972	269	0.986	305	0.860	341	0.644
18	0.540	54	0.559	90	0.560	126	0.540	162	0.608	198	0.818	234	0.976	270	0.985	306	0.856	342	0.638
19	0.540	55	0.560	91	0.560	127	0.540	163	0.612	199	0.824	235	0.980	271	0.984	307	0.848	343	0.632
20	0.540	56	0.560	92	0.560	128	0.540	164	0.616	200	0.830	236	0.981	272	0.983	308	0.842	344	0.626
21	0.540	57	0.560	93	0.560	129	0.540	165	0.620	201	0.836	237	0.982	273	0.982	309	0.836	345	0.620
22	0.540	58	0.560	94	0.560	130	0.540	166	0.626	202	0.842	238	0.983	274	0.981	310	0.830	346	0.616
23	0.540	59	0.560	95	0.560	131	0.540	167	0.632	203	0.848	239	0.984	275	0.980	311	0.824	347	0.612
24	0.540	60	0.560	96	0.559	132	0.540	168	0.638	204	0.854	240	0.985	276	0.976	312	0.818	348	0.608
25	0.540	61	0.560	97	0.558	133	0.540	169	0.644	205	0.860	241	0.986	277	0.972	313	0.812	349	0.604
26	0.540	62	0.560	98	0.557	134	0.540	170	0.650	206	0.864	242	0.987	278	0.968	314	0.806	350	0.600
27	0.540	63	0.560	99	0.556	135	0.540	171	0.656	207	0.868	243	0.988	279	0.964	315	0.800	351	0.596
28	0.540	64	0.560	100	0.555	136	0.542	172	0.662	208	0.872	244	0.989	280	0.960	316	0.794	352	0.592
29	0.540	65	0.560	101	0.554	137	0.544	173	0.668	209	0.876	245	0.990	281	0.956	317	0.788	353	0.588
30	0.540	66	0.560	102	0.553	138	0.546	174	0.674	210	0.880	246	0.991	282	0.952	318	0.782	354	0.584
31	0.540	67	0.560	103	0.552	139	0.548	175	0.680	211	0.884	247	0.992	283	0.948	319	0.776	355	0.580
32	0.540	68	0.560	104	0.551	140	0.550	176	0.686	212	0.888	248	0.993	284	0.944	320	0.770	356	0.578
33	0.540	69	0.560	105	0.550	141	0.552	177	0.692	213	0.892	249	0.994	285	0.940	321	0.764	357	0.576
34	0.540	70	0.560	106	0.549	142	0.554	178	0.698	214	0.896	250	0.995	286	0.936	322	0.758	358	0.574
35	0.540	71	0.560	107	0.548	143	0.556	179	0.704	215	0.900	251	0.996	287	0.932	323	0.752	359	0.572

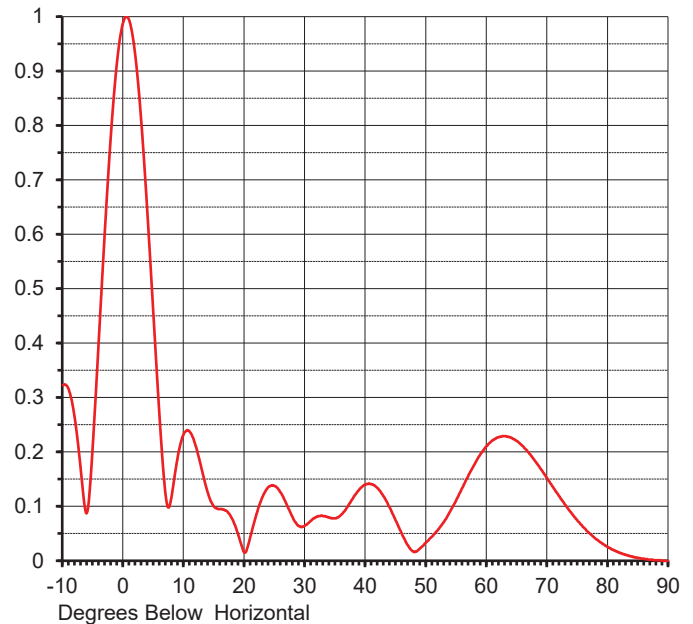
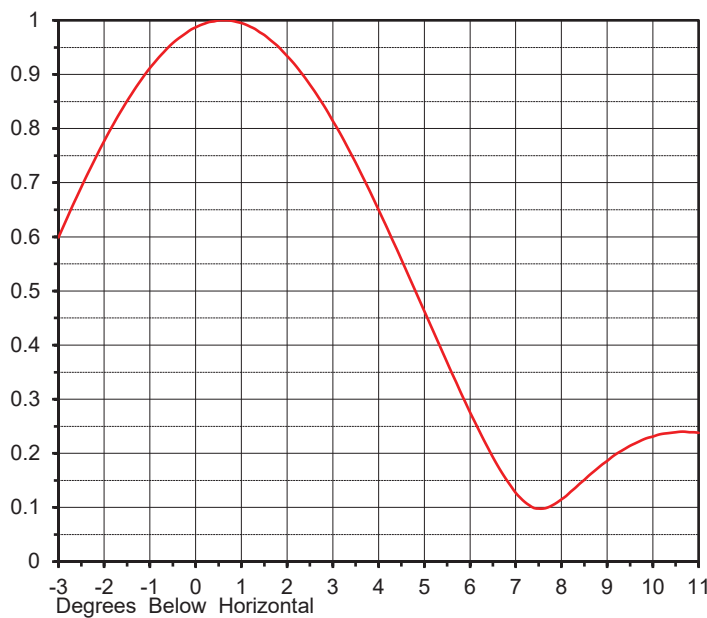
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ELEVATION PATTERN

Proposal No. **C-70773**
 Date **19-May-17**
 Call Letters **WRMD-CD**
 Channel **30**
 Frequency **569 MHz**
 Antenna Type **TLP-8B**

RMS Directivity at Main Lobe **8.0 (9.03 dB)**
 RMS Directivity at Horizontal **7.9 (8.98 dB)**
Calculated

Beam Tilt **0.50 deg**
 Pattern Number **8L080050**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.323	10.0	0.234	30.0	0.065	50.0	0.034	70.0	0.151
-9.0	0.314	11.0	0.236	31.0	0.074	51.0	0.045	71.0	0.134
-8.0	0.260	12.0	0.209	32.0	0.081	52.0	0.058	72.0	0.118
-7.0	0.163	13.0	0.165	33.0	0.082	53.0	0.073	73.0	0.102
-6.0	0.089	14.0	0.123	34.0	0.079	54.0	0.092	74.0	0.087
-5.0	0.222	15.0	0.099	35.0	0.078	55.0	0.113	75.0	0.073
-4.0	0.419	16.0	0.095	36.0	0.085	56.0	0.135	76.0	0.061
-3.0	0.618	17.0	0.092	37.0	0.099	57.0	0.158	77.0	0.050
-2.0	0.793	18.0	0.076	38.0	0.117	58.0	0.178	78.0	0.040
-1.0	0.922	19.0	0.046	39.0	0.132	59.0	0.197	79.0	0.032
0.0	0.991	20.0	0.015	40.0	0.140	60.0	0.211	80.0	0.025
1.0	0.992	21.0	0.046	41.0	0.141	61.0	0.222	81.0	0.019
2.0	0.925	22.0	0.087	42.0	0.133	62.0	0.227	82.0	0.014
3.0	0.800	23.0	0.118	43.0	0.118	63.0	0.229	83.0	0.011
4.0	0.632	24.0	0.136	44.0	0.097	64.0	0.226	84.0	0.008
5.0	0.444	25.0	0.137	45.0	0.073	65.0	0.220	85.0	0.005
6.0	0.259	26.0	0.125	46.0	0.049	66.0	0.210	86.0	0.003
7.0	0.118	27.0	0.102	47.0	0.028	67.0	0.197	87.0	0.002
8.0	0.121	28.0	0.078	48.0	0.016	68.0	0.183	88.0	0.001
9.0	0.193	29.0	0.064	49.0	0.023	69.0	0.167	89.0	0.000
								90.0	0.000

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