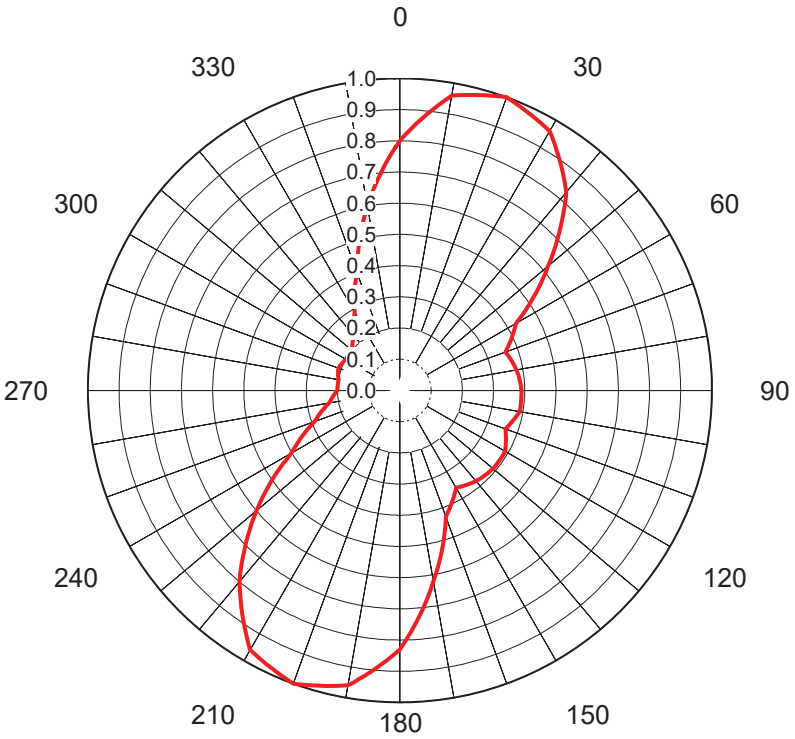
Dielectric®



AZIMUTH PATTERN
Horizontal Polarization

In Free Space

Proposal No.	**C-70847**
Date	**23-May-17**
Call Letters	**WMJF-CD**
Channel	**23**
Frequency	**527 MHz**
Antenna Type	**TFU-8DSB -R P300 (SP)**
Gain	**2.95 (4.7dB)**
	Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.800	36	0.882	72	0.364	108	0.366	144	0.372	180	0.830	216	0.864	252	0.278	288	0.208	324	0.254
1	0.816	37	0.869	73	0.366	109	0.363	145	0.370	181	0.843	217	0.848	253	0.272	289	0.209	325	0.260
2	0.832	38	0.856	74	0.368	110	0.360	146	0.368	182	0.856	218	0.832	254	0.266	290	0.210	326	0.266
3	0.848	39	0.843	75	0.370	111	0.363	147	0.366	183	0.869	219	0.816	255	0.260	291	0.209	327	0.272
4	0.864	40	0.830	76	0.372	112	0.366	148	0.364	184	0.882	220	0.800	256	0.254	292	0.208	328	0.278
5	0.880	41	0.809	77	0.374	113	0.369	149	0.362	185	0.895	221	0.780	257	0.248	293	0.207	329	0.284
6	0.896	42	0.788	78	0.376	114	0.372	150	0.360	186	0.908	222	0.760	258	0.242	294	0.206	330	0.290
7	0.912	43	0.767	79	0.378	115	0.375	151	0.367	187	0.921	223	0.740	259	0.236	295	0.205	331	0.301
8	0.928	44	0.746	80	0.380	116	0.378	152	0.374	188	0.934	224	0.720	260	0.230	296	0.204	332	0.312
9	0.944	45	0.725	81	0.381	117	0.381	153	0.381	189	0.947	225	0.700	261	0.227	297	0.203	333	0.323
10	0.960	46	0.704	82	0.382	118	0.384	154	0.388	190	0.960	226	0.680	262	0.224	298	0.202	334	0.334
11	0.964	47	0.683	83	0.383	119	0.387	155	0.395	191	0.964	227	0.660	263	0.221	299	0.201	335	0.345
12	0.968	48	0.662	84	0.384	120	0.390	156	0.402	192	0.968	228	0.640	264	0.218	300	0.200	336	0.356
13	0.972	49	0.641	85	0.385	121	0.390	157	0.409	193	0.972	229	0.620	265	0.215	301	0.200	337	0.367
14	0.976	50	0.620	86	0.386	122	0.390	158	0.416	194	0.976	230	0.600	266	0.212	302	0.200	338	0.378
15	0.980	51	0.601	87	0.387	123	0.390	159	0.423	195	0.980	231	0.580	267	0.209	303	0.200	339	0.389
16	0.984	52	0.582	88	0.388	124	0.390	160	0.430	196	0.984	232	0.560	268	0.206	304	0.200	340	0.400
17	0.988	53	0.563	89	0.389	125	0.390	161	0.449	197	0.988	233	0.540	269	0.203	305	0.200	341	0.420
18	0.992	54	0.544	90	0.390	126	0.390	162	0.468	198	0.992	234	0.520	270	0.200	306	0.200	342	0.440
19	0.996	55	0.525	91	0.390	127	0.390	163	0.487	199	0.996	235	0.500	271	0.200	307	0.200	343	0.460
20	1.000	56	0.506	92	0.390	128	0.390	164	0.506	200	1.000	236	0.480	272	0.200	308	0.200	344	0.480
21	0.996	57	0.487	93	0.390	129	0.390	165	0.525	201	0.996	237	0.460	273	0.200	309	0.200	345	0.500
22	0.992	58	0.468	94	0.390	130	0.390	166	0.544	202	0.992	238	0.440	274	0.200	310	0.200	346	0.520
23	0.988	59	0.449	95	0.390	131	0.389	167	0.563	203	0.988	239	0.420	275	0.200	311	0.203	347	0.540
24	0.984	60	0.430	96	0.390	132	0.388	168	0.582	204	0.984	240	0.400	276	0.200	312	0.206	348	0.560
25	0.980	61	0.423	97	0.390	133	0.387	169	0.601	205	0.980	241	0.389	277	0.200	313	0.209	349	0.580
26	0.976	62	0.416	98	0.390	134	0.386	170	0.620	206	0.976	242	0.378	278	0.200	314	0.212	350	0.600
27	0.972	63	0.409	99	0.390	135	0.385	171	0.641	207	0.972	243	0.367	279	0.200	315	0.215	351	0.620
28	0.968	64	0.402	100	0.390	136	0.384	172	0.662	208	0.968	244	0.356	280	0.200	316	0.218	352	0.640
29	0.964	65	0.395	101	0.387	137	0.383	173	0.683	209	0.964	245	0.345	281	0.201	317	0.221	353	0.660
30	0.960	66	0.388	102	0.384	138	0.382	174	0.704	210	0.960	246	0.334	282	0.202	318	0.224	354	0.680
31	0.947	67	0.381	103	0.381	139	0.381	175	0.725	211	0.944	247	0.323	283	0.203	319	0.227	355	0.700
32	0.934	68	0.374	104	0.378	140	0.380	176	0.746	212	0.928	248	0.312	284	0.204	320	0.230	356	0.720
33	0.921	69	0.367	105	0.375	141	0.378	177	0.767	213	0.912	249	0.301	285	0.205	321	0.236	357	0.740
34	0.908	70	0.360	106	0.372	142	0.376	178	0.788	214	0.896	250	0.290	286	0.206	322	0.242	358	0.760
35	0.895	71	0.362	107	0.369	143	0.374	179	0.809	215	0.880	251	0.284	287	0.207	323	0.248	359	0.780

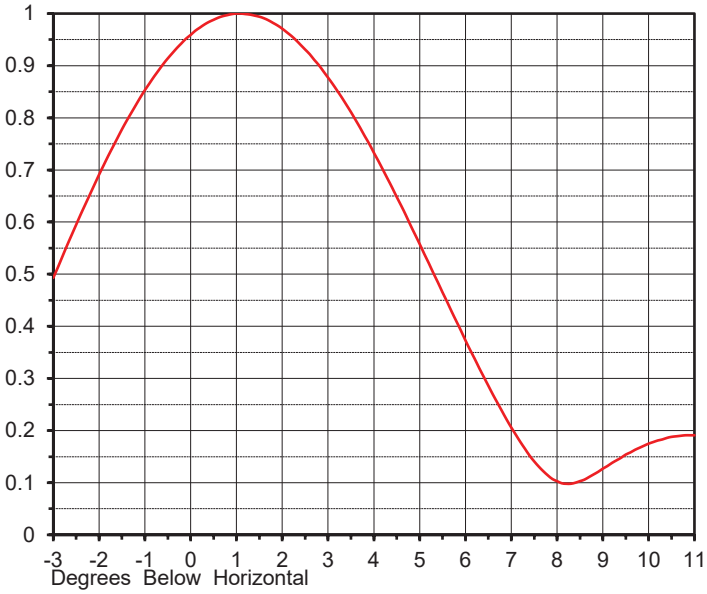
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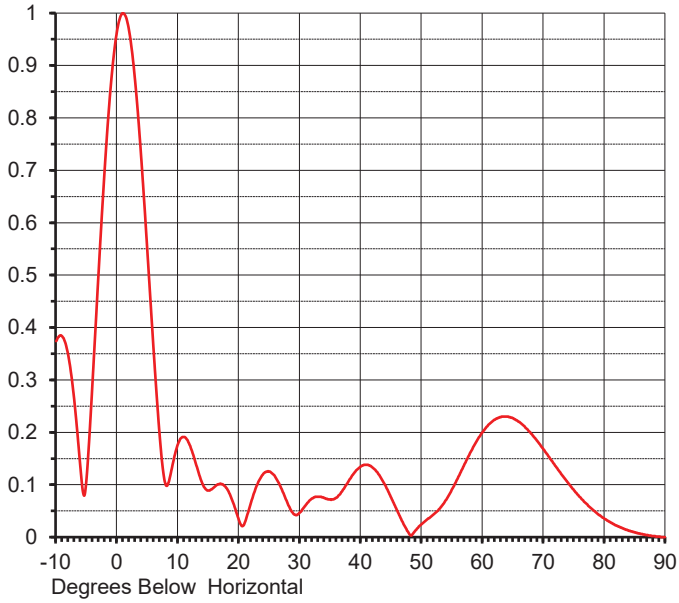
Dielectric®

ELEVATION PATTERN

Proposal No.	**C-70847**
Date	**23-May-17**
Call Letters	**WMJF-CD**
Channel	**23**
Frequency	**527 MHz**
Antenna Type	**TFU-8DSB -R P300 (SP)**

RMS Directivity at Main Lobe	**8.0 (9.03 dB)**	Beam Tilt	**1.00 deg**
RMS Directivity at Horizontal	**7.5 (8.75 dB)**	Pattern Number	**08L080100**
	Calculated		





Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.374	10.0	0.178	30.0	0.047	50.0	0.025	70.0	0.167
-9.0	0.383	11.0	0.191	31.0	0.062	51.0	0.035	71.0	0.151
-8.0	0.346	12.0	0.174	32.0	0.074	52.0	0.044	72.0	0.135
-7.0	0.258	13.0	0.137	33.0	0.077	53.0	0.055	73.0	0.119
-6.0	0.130	14.0	0.102	34.0	0.075	54.0	0.071	74.0	0.104
-5.0	0.114	15.0	0.089	35.0	0.072	55.0	0.092	75.0	0.089
-4.0	0.303	16.0	0.096	36.0	0.075	56.0	0.115	76.0	0.076
-3.0	0.513	17.0	0.102	37.0	0.089	57.0	0.139	77.0	0.064
-2.0	0.709	18.0	0.093	38.0	0.107	58.0	0.162	78.0	0.053
-1.0	0.866	19.0	0.067	39.0	0.124	59.0	0.183	79.0	0.043
0.0	0.967	20.0	0.032	40.0	0.135	60.0	0.201	80.0	0.035
1.0	1.000	21.0	0.029	41.0	0.138	61.0	0.215	81.0	0.028
2.0	0.964	22.0	0.067	42.0	0.132	62.0	0.224	82.0	0.022
3.0	0.865	23.0	0.100	43.0	0.119	63.0	0.229	83.0	0.017
4.0	0.717	24.0	0.121	44.0	0.099	64.0	0.230	84.0	0.012
5.0	0.539	25.0	0.125	45.0	0.075	65.0	0.227	85.0	0.009
6.0	0.355	26.0	0.114	46.0	0.050	66.0	0.220	86.0	0.006
7.0	0.192	27.0	0.092	47.0	0.025	67.0	0.209	87.0	0.004
8.0	0.099	28.0	0.064	48.0	0.005	68.0	0.197	88.0	0.002
9.0	0.132	29.0	0.044	49.0	0.013	69.0	0.183	89.0	0.001
								90.0	0.000

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