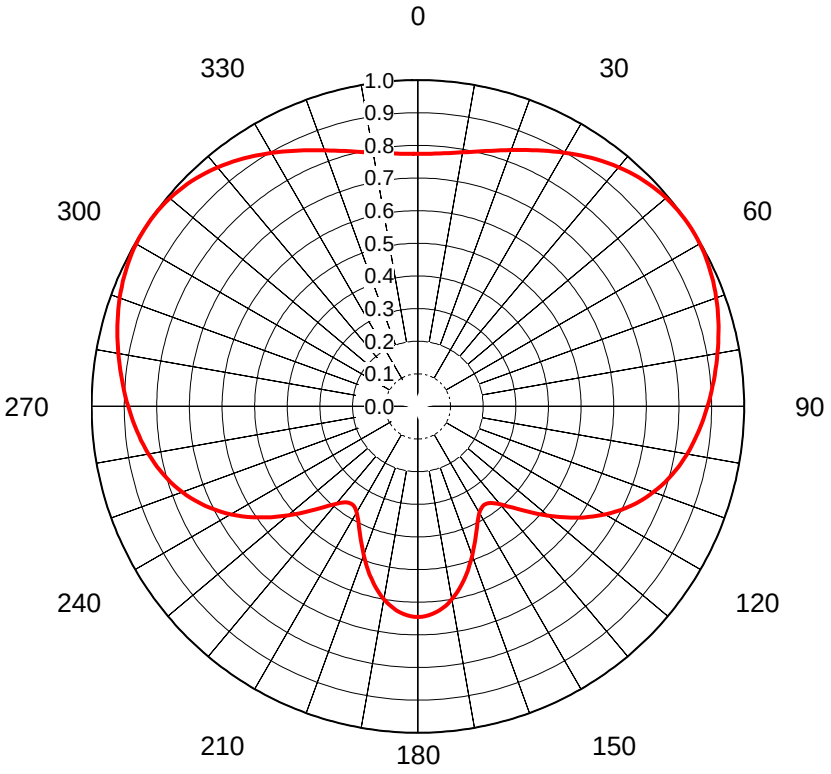
Dielectric®



AZIMUTH PATTERN
Horizontal Polarization

Proposal No.	**C-71334**
Date	**28-May-19**
Call Letters	**WJBF**
Channel	**28**
Frequency	**557 MHz**
Antenna Type	**TFU-16WB-R C160**
Gain	**1.63 (2.13dB)**
	Calculated

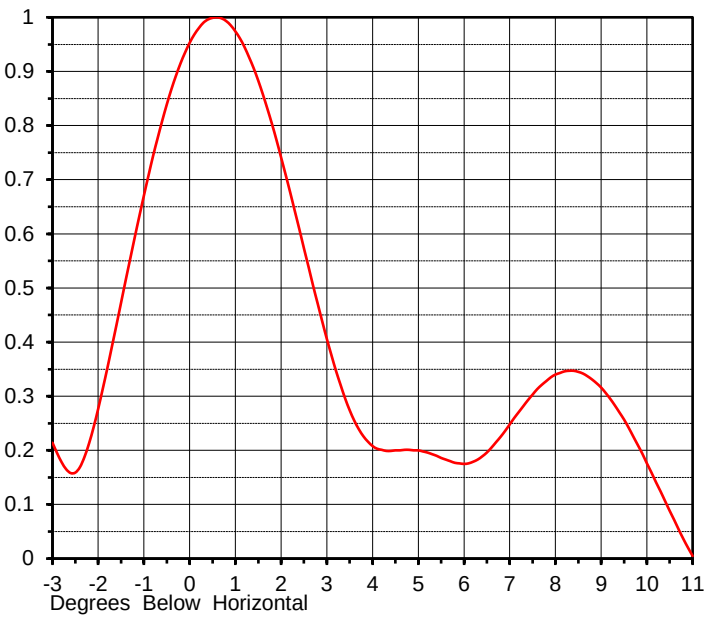
Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.774	36	0.935	72	0.966	108	0.785	144	0.367	180	0.645	216	0.364	252	0.785	288	0.965	324	0.934
1	0.774	37	0.941	73	0.962	109	0.777	145	0.364	181	0.645	217	0.368	253	0.792	289	0.969	325	0.928
2	0.775	38	0.946	74	0.958	110	0.768	146	0.364	182	0.643	218	0.374	254	0.800	290	0.972	326	0.922
3	0.776	39	0.952	75	0.954	111	0.760	147	0.365	183	0.641	219	0.381	255	0.807	291	0.976	327	0.916
4	0.777	40	0.957	76	0.950	112	0.750	148	0.367	184	0.638	220	0.389	256	0.814	292	0.979	328	0.910
5	0.778	41	0.962	77	0.945	113	0.741	149	0.372	185	0.633	221	0.399	257	0.820	293	0.982	329	0.903
6	0.780	42	0.966	78	0.941	114	0.731	150	0.377	186	0.628	222	0.410	258	0.826	294	0.985	330	0.897
7	0.782	43	0.971	79	0.937	115	0.720	151	0.385	187	0.622	223	0.422	259	0.832	295	0.987	331	0.891
8	0.785	44	0.975	80	0.932	116	0.710	152	0.393	188	0.616	224	0.434	260	0.838	296	0.990	332	0.884
9	0.788	45	0.979	81	0.928	117	0.698	153	0.402	189	0.608	225	0.447	261	0.844	297	0.992	333	0.878
10	0.791	46	0.982	82	0.924	118	0.687	154	0.413	190	0.600	226	0.461	262	0.849	298	0.994	334	0.871
11	0.794	47	0.986	83	0.919	119	0.675	155	0.424	191	0.591	227	0.475	263	0.854	299	0.996	335	0.865
12	0.798	48	0.989	84	0.915	120	0.662	156	0.436	192	0.581	228	0.490	264	0.859	300	0.997	336	0.859
13	0.802	49	0.991	85	0.910	121	0.649	157	0.448	193	0.570	229	0.505	265	0.864	301	0.998	337	0.853
14	0.806	50	0.993	86	0.906	122	0.636	158	0.461	194	0.559	230	0.519	266	0.869	302	0.999	338	0.847
15	0.810	51	0.995	87	0.901	123	0.623	159	0.473	195	0.548	231	0.534	267	0.874	303	0.999	339	0.841
16	0.815	52	0.997	88	0.897	124	0.609	160	0.486	196	0.536	232	0.549	268	0.879	304	0.999	340	0.835
17	0.820	53	0.998	89	0.892	125	0.594	161	0.499	197	0.523	233	0.564	269	0.883	305	0.999	341	0.830
18	0.825	54	0.999	90	0.888	126	0.580	162	0.512	198	0.511	234	0.579	270	0.888	306	0.998	342	0.824
19	0.831	55	1.000	91	0.883	127	0.565	163	0.525	199	0.498	235	0.593	271	0.892	307	0.997	343	0.819
20	0.836	56	1.000	92	0.878	128	0.551	164	0.537	200	0.485	236	0.607	272	0.897	308	0.996	344	0.814
21	0.842	57	1.000	93	0.874	129	0.536	165	0.549	201	0.472	237	0.621	273	0.901	309	0.994	345	0.810
22	0.848	58	1.000	94	0.869	130	0.521	166	0.560	202	0.459	238	0.635	274	0.906	310	0.993	346	0.805
23	0.854	59	0.999	95	0.864	131	0.506	167	0.571	203	0.446	239	0.648	275	0.910	311	0.990	347	0.801
24	0.860	60	0.998	96	0.859	132	0.492	168	0.582	204	0.434	240	0.661	276	0.915	312	0.988	348	0.797
25	0.866	61	0.996	97	0.854	133	0.477	169	0.591	205	0.422	241	0.674	277	0.919	313	0.985	349	0.793
26	0.872	62	0.995	98	0.849	134	0.463	170	0.600	206	0.411	242	0.686	278	0.923	314	0.982	350	0.790
27	0.879	63	0.993	99	0.844	135	0.449	171	0.609	207	0.400	243	0.698	279	0.928	315	0.978	351	0.787
28	0.885	64	0.991	100	0.838	136	0.436	172	0.616	208	0.391	244	0.709	280	0.932	316	0.974	352	0.784
29	0.892	65	0.988	101	0.832	137	0.424	173	0.623	209	0.382	245	0.720	281	0.936	317	0.970	353	0.782
30	0.898	66	0.986	102	0.826	138	0.412	174	0.629	210	0.375	246	0.730	282	0.941	318	0.966	354	0.780
31	0.904	67	0.983	103	0.820	139	0.401	175	0.634	211	0.369	247	0.740	283	0.945	319	0.961	355	0.778
32	0.911	68	0.980	104	0.814	140	0.392	176	0.638	212	0.365	248	0.750	284	0.949	320	0.956	356	0.777
33	0.917	69	0.977	105	0.807	141	0.383	177	0.641	213	0.362	249	0.759	285	0.953	321	0.951	357	0.776
34	0.923	70	0.973	106	0.800	142	0.376	178	0.643	214	0.361	250	0.768	286	0.957	322	0.945	358	0.775
35	0.929	71	0.969	107	0.793	143	0.371	179	0.645	215	0.362	251	0.777	287	0.961	323	0.940	359	0.774

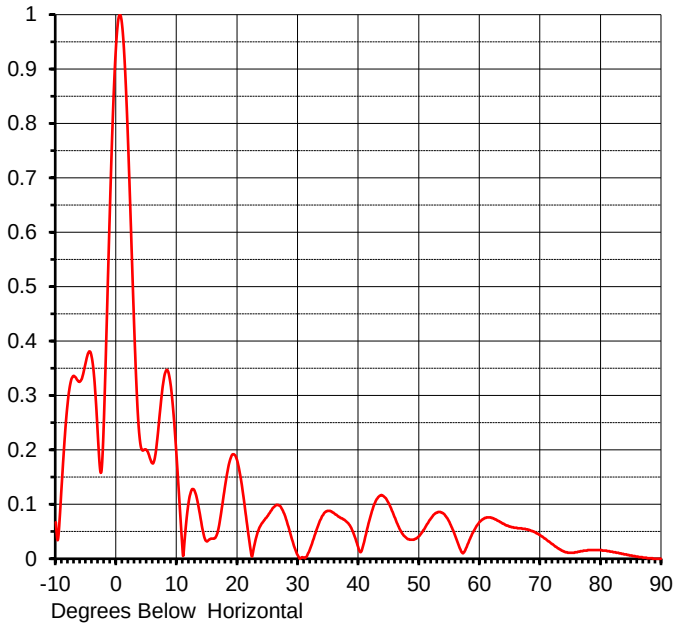
ELEVATION PATTERN

Proposal No.	**C-71334**
Date	**28-May-19**
Call Letters	**WJBF**
Channel	**28**
Frequency	**557 MHz**
Antenna Type	**TFU-16WB-R C160**

RMS Directivity at Main Lobe	**14.5 (11.61 dB)**	Beam Tilt	**0.55 deg**
RMS Directivity at Horizontal	**13.2 (11.21 dB)**	Pattern Number	**16W145055**

Calculated





Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.067	10.0	0.176	30.0	0.005	50.0	0.042	70.0	0.043
-9.0	0.141	11.0	0.005	31.0	0.002	51.0	0.058	71.0	0.035
-8.0	0.291	12.0	0.109	32.0	0.019	52.0	0.075	72.0	0.027
-7.0	0.336	13.0	0.122	33.0	0.052	53.0	0.085	73.0	0.019
-6.0	0.326	14.0	0.068	34.0	0.079	54.0	0.083	74.0	0.013
-5.0	0.364	15.0	0.032	35.0	0.088	55.0	0.067	75.0	0.011
-4.0	0.366	16.0	0.037	36.0	0.083	56.0	0.040	76.0	0.012
-3.0	0.214	17.0	0.064	37.0	0.075	57.0	0.012	77.0	0.014
-2.0	0.277	18.0	0.138	38.0	0.068	58.0	0.027	78.0	0.016
-1.0	0.671	19.0	0.189	39.0	0.051	59.0	0.051	79.0	0.016
0.0	0.953	20.0	0.178	40.0	0.018	60.0	0.068	80.0	0.016
1.0	0.974	21.0	0.112	41.0	0.036	61.0	0.075	81.0	0.014
2.0	0.741	22.0	0.028	42.0	0.080	62.0	0.075	82.0	0.012
3.0	0.406	23.0	0.036	43.0	0.110	63.0	0.070	83.0	0.010
4.0	0.208	24.0	0.065	44.0	0.116	64.0	0.064	84.0	0.008
5.0	0.200	25.0	0.079	45.0	0.101	65.0	0.059	85.0	0.006
6.0	0.175	26.0	0.095	46.0	0.075	66.0	0.057	86.0	0.004
7.0	0.248	27.0	0.097	47.0	0.050	67.0	0.055	87.0	0.002
8.0	0.340	28.0	0.073	48.0	0.037	68.0	0.053	88.0	0.001
9.0	0.316	29.0	0.035	49.0	0.035	69.0	0.049	89.0	0.000
								90.0	0.000