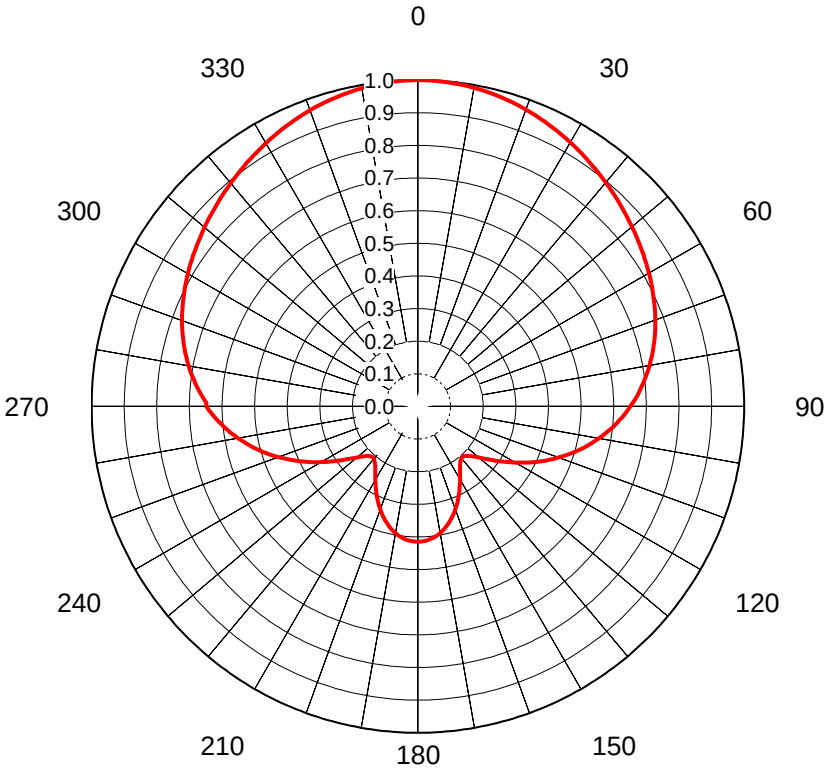
Dielectric®



AZIMUTH PATTERN
Horizontal Polarization

Proposal No.	**C-**
Date	**23-May-19**
Call Letters	**WANE**
Channel	**32**
Frequency	**581 MHz**
Antenna Type	**TFU-16WB-R S230**
Gain	**2.2 (3.43dB)**
	Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	1.000	36	0.911	72	0.765	108	0.481	144	0.220	180	0.415	216	0.223	252	0.477	288	0.759	324	0.908
1	1.000	37	0.908	73	0.760	109	0.470	145	0.225	181	0.415	217	0.218	253	0.487	289	0.764	325	0.912
2	1.000	38	0.904	74	0.754	110	0.458	146	0.231	182	0.414	218	0.214	254	0.498	290	0.769	326	0.916
3	0.999	39	0.900	75	0.749	111	0.447	147	0.237	183	0.413	219	0.212	255	0.509	291	0.774	327	0.920
4	0.999	40	0.896	76	0.744	112	0.436	148	0.244	184	0.412	220	0.210	256	0.519	292	0.779	328	0.924
5	0.998	41	0.892	77	0.738	113	0.425	149	0.251	185	0.410	221	0.209	257	0.530	293	0.783	329	0.928
6	0.997	42	0.888	78	0.733	114	0.413	150	0.258	186	0.407	222	0.209	258	0.540	294	0.788	330	0.932
7	0.996	43	0.884	79	0.727	115	0.402	151	0.266	187	0.405	223	0.210	259	0.550	295	0.792	331	0.935
8	0.994	44	0.880	80	0.721	116	0.390	152	0.274	188	0.402	224	0.212	260	0.560	296	0.797	332	0.939
9	0.993	45	0.876	81	0.715	117	0.379	153	0.282	189	0.398	225	0.215	261	0.570	297	0.801	333	0.943
10	0.991	46	0.872	82	0.708	118	0.367	154	0.290	190	0.394	226	0.219	262	0.579	298	0.805	334	0.946
11	0.990	47	0.868	83	0.702	119	0.356	155	0.297	191	0.390	227	0.224	263	0.588	299	0.810	335	0.950
12	0.988	48	0.865	84	0.695	120	0.344	156	0.305	192	0.385	228	0.229	264	0.598	300	0.814	336	0.953
13	0.986	49	0.861	85	0.688	121	0.333	157	0.313	193	0.381	229	0.236	265	0.607	301	0.818	337	0.956
14	0.984	50	0.857	86	0.681	122	0.322	158	0.321	194	0.375	230	0.243	266	0.615	302	0.822	338	0.960
15	0.981	51	0.853	87	0.674	123	0.311	159	0.328	195	0.370	231	0.251	267	0.624	303	0.826	339	0.963
16	0.979	52	0.849	88	0.667	124	0.300	160	0.336	196	0.364	232	0.259	268	0.632	304	0.830	340	0.966
17	0.976	53	0.845	89	0.659	125	0.290	161	0.343	197	0.357	233	0.268	269	0.641	305	0.834	341	0.969
18	0.974	54	0.841	90	0.651	126	0.280	162	0.350	198	0.351	234	0.278	270	0.649	306	0.838	342	0.972
19	0.971	55	0.837	91	0.644	127	0.270	163	0.356	199	0.344	235	0.288	271	0.649	307	0.842	343	0.975
20	0.968	56	0.833	92	0.635	128	0.261	164	0.363	200	0.337	236	0.298	272	0.657	308	0.846	344	0.977
21	0.965	57	0.830	93	0.627	129	0.252	165	0.369	201	0.330	237	0.308	273	0.664	309	0.850	345	0.980
22	0.962	58	0.826	94	0.619	130	0.244	166	0.374	202	0.322	238	0.319	274	0.672	310	0.854	346	0.982
23	0.959	59	0.822	95	0.610	131	0.236	167	0.380	203	0.315	239	0.330	275	0.679	311	0.857	347	0.984
24	0.956	60	0.818	96	0.601	132	0.229	168	0.385	204	0.307	240	0.341	276	0.686	312	0.861	348	0.986
25	0.952	61	0.814	97	0.592	133	0.223	169	0.389	205	0.299	241	0.352	277	0.693	313	0.865	349	0.988
26	0.949	62	0.809	98	0.583	134	0.218	170	0.394	206	0.291	242	0.364	278	0.700	314	0.869	350	0.990
27	0.945	63	0.805	99	0.573	135	0.214	171	0.398	207	0.284	243	0.375	279	0.707	315	0.873	351	0.992
28	0.942	64	0.801	100	0.564	136	0.211	172	0.401	208	0.276	244	0.386	280	0.713	316	0.877	352	0.993
29	0.938	65	0.797	101	0.554	137	0.208	173	0.404	209	0.268	245	0.398	281	0.719	317	0.881	353	0.995
30	0.934	66	0.792	102	0.544	138	0.207	174	0.407	210	0.261	246	0.409	282	0.725	318	0.885	354	0.996
31	0.931	67	0.788	103	0.534	139	0.207	175	0.409	211	0.253	247	0.421	283	0.731	319	0.889	355	0.997
32	0.927	68	0.784	104	0.523	140	0.208	176	0.411	212	0.246	248	0.432	284	0.737	320	0.893	356	0.998
33	0.923	69	0.779	105	0.513	141	0.209	177	0.413	213	0.240	249	0.443	285	0.743	321	0.897	357	0.999
34	0.919	70	0.774	106	0.502	142	0.212	178	0.414	214	0.233	250	0.454	286	0.748	322	0.901	358	0.999
35	0.915	71	0.769	107	0.491	143	0.216	179	0.415	215	0.228	251	0.466	287	0.754	323	0.905	359	1.000

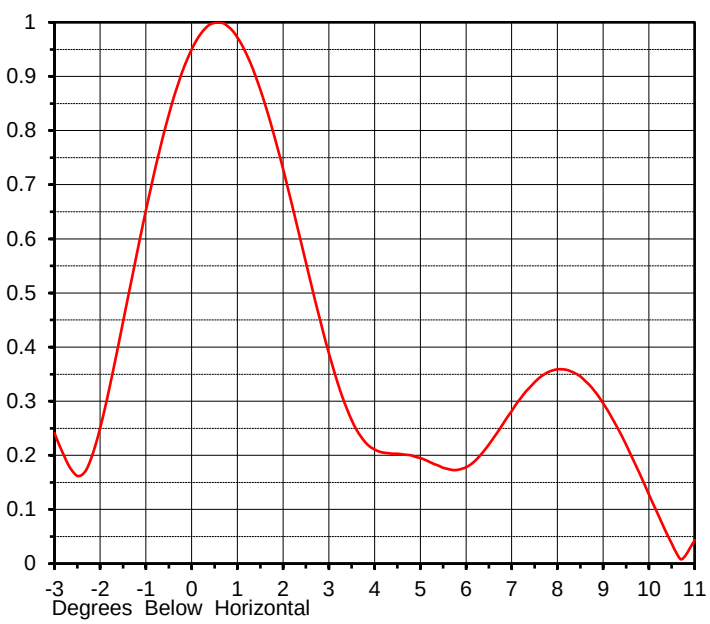
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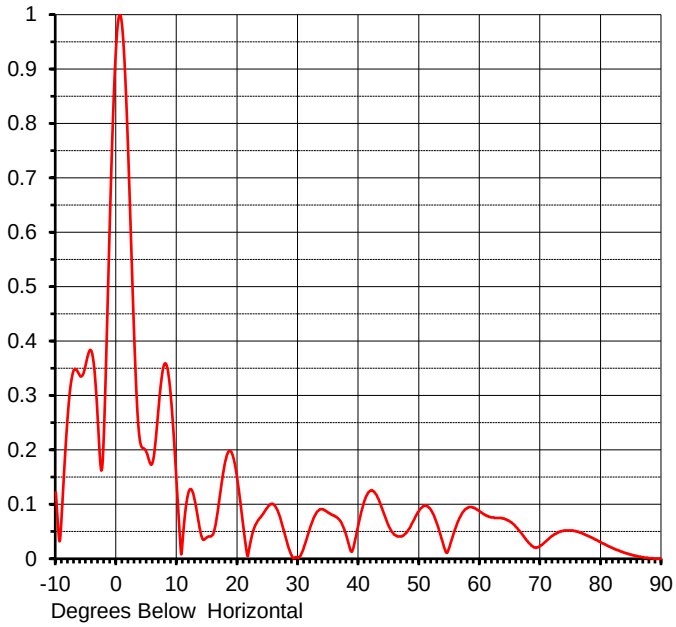
ELEVATION PATTERN

Proposal No.	**C-**
Date	**23-May-19**
Call Letters	**WANE**
Channel	**32**
Frequency	**581 MHz**
Antenna Type	**TFU-16WB-R S230**

RMS Directivity at Main Lobe	**14.5 (11.60 dB)**	Beam Tilt	**0.55 deg**
RMS Directivity at Horizontal	**13.1 (11.17 dB)**	Pattern Number	**16W145055**

Calculated





Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.122	10.0	0.128	30.0	0.002	50.0	0.089	70.0	0.024
-9.0	0.087	11.0	0.043	31.0	0.023	51.0	0.098	71.0	0.033
-8.0	0.268	12.0	0.125	32.0	0.058	52.0	0.088	72.0	0.042
-7.0	0.347	13.0	0.104	33.0	0.084	53.0	0.062	73.0	0.049
-6.0	0.336	14.0	0.043	34.0	0.091	54.0	0.025	74.0	0.052
-5.0	0.360	15.0	0.040	35.0	0.085	55.0	0.022	75.0	0.052
-4.0	0.377	16.0	0.046	36.0	0.079	56.0	0.057	76.0	0.050
-3.0	0.241	17.0	0.109	37.0	0.069	57.0	0.082	77.0	0.046
-2.0	0.251	18.0	0.180	38.0	0.041	58.0	0.094	78.0	0.041
-1.0	0.653	19.0	0.196	39.0	0.016	59.0	0.094	79.0	0.036
0.0	0.950	20.0	0.143	40.0	0.065	60.0	0.087	80.0	0.030
1.0	0.972	21.0	0.055	41.0	0.108	61.0	0.080	81.0	0.024
2.0	0.729	22.0	0.023	42.0	0.125	62.0	0.076	82.0	0.019
3.0	0.389	23.0	0.063	43.0	0.116	63.0	0.075	83.0	0.015
4.0	0.211	24.0	0.079	44.0	0.088	64.0	0.074	84.0	0.011
5.0	0.195	25.0	0.095	45.0	0.059	65.0	0.068	85.0	0.007
6.0	0.178	26.0	0.099	46.0	0.044	66.0	0.058	86.0	0.005
7.0	0.282	27.0	0.077	47.0	0.041	67.0	0.045	87.0	0.003
8.0	0.359	28.0	0.037	48.0	0.050	68.0	0.030	88.0	0.001
9.0	0.296	29.0	0.004	49.0	0.069	69.0	0.021	89.0	0.000
								90.0	0.000

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