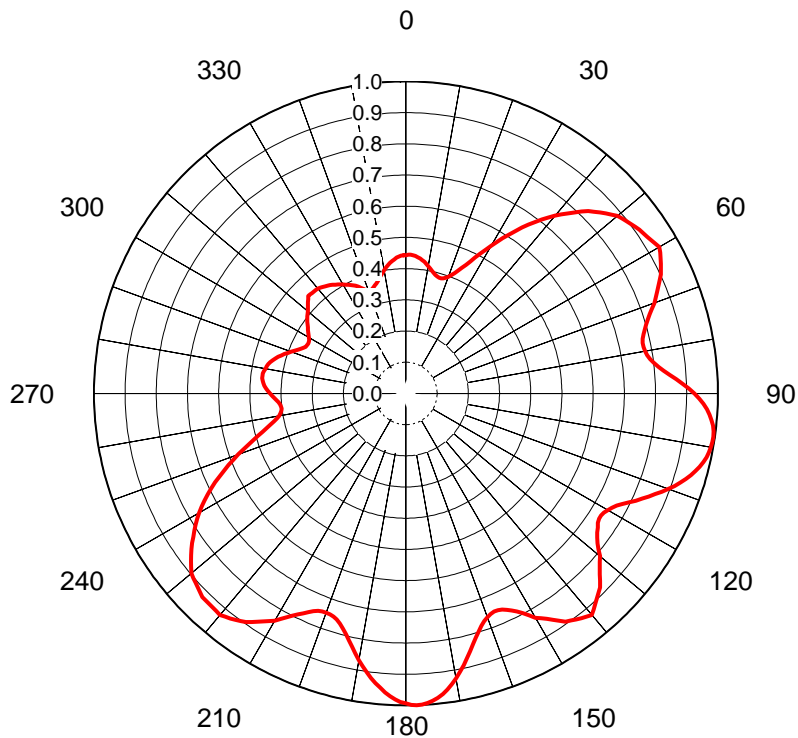


AZIMUTH PATTERN Horizontal Polarization



Proposal No. **C-70879**
 Date **28-Jun-17**
 Call Letters **WSKA**
 Channel **25**
 Frequency **539 MHz**
 Antenna Type **TUA-C4SP-8/28/M-1-T**
 Gain **1.96 (2.92dB)**
 Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.443	36	0.669	72	0.822	108	0.925	144	0.900	180	0.994	216	0.902	252	0.531	288	0.409
1	0.444	37	0.688	73	0.811	109	0.911	145	0.893	181	0.989	217	0.908	253	0.512	289	0.400
2	0.445	38	0.707	74	0.801	110	0.895	146	0.879	182	0.982	218	0.915	254	0.494	290	0.391
3	0.444	39	0.725	75	0.794	111	0.879	147	0.865	183	0.973	219	0.921	255	0.476	291	0.382
4	0.442	40	0.743	76	0.785	112	0.862	148	0.852	184	0.961	220	0.927	256	0.460	292	0.373
5	0.438	41	0.760	77	0.779	113	0.845	149	0.841	185	0.947	221	0.925	257	0.445	293	0.366
6	0.435	42	0.777	78	0.776	114	0.829	150	0.831	186	0.934	222	0.924	258	0.433	294	0.359
7	0.431	43	0.794	79	0.776	115	0.814	151	0.813	187	0.919	223	0.923	259	0.422	295	0.354
8	0.426	44	0.810	80	0.779	116	0.796	152	0.798	188	0.903	224	0.923	260	0.413	296	0.352
9	0.420	45	0.827	81	0.783	117	0.779	153	0.785	189	0.885	225	0.923	261	0.407	297	0.352
10	0.414	46	0.839	82	0.790	118	0.766	154	0.774	190	0.867	226	0.917	262	0.403	298	0.352
11	0.408	47	0.851	83	0.801	119	0.755	155	0.766	191	0.849	227	0.912	263	0.402	299	0.355
12	0.402	48	0.862	84	0.814	120	0.748	156	0.758	192	0.830	228	0.907	264	0.402	300	0.359
13	0.396	49	0.874	85	0.829	121	0.741	157	0.754	193	0.812	229	0.902	265	0.404	301	0.364
14	0.391	50	0.886	86	0.848	122	0.738	158	0.754	194	0.795	230	0.898	266	0.410	302	0.369
15	0.388	51	0.892	87	0.867	123	0.738	159	0.757	195	0.780	231	0.886	267	0.416	303	0.374
16	0.386	52	0.897	88	0.887	124	0.742	160	0.764	196	0.768	232	0.874	268	0.422	304	0.379
17	0.386	53	0.903	89	0.906	125	0.751	161	0.772	197	0.758	233	0.862	269	0.429	305	0.385
18	0.388	54	0.909	90	0.925	126	0.757	162	0.783	198	0.752	234	0.849	270	0.435	306	0.391
19	0.392	55	0.914	91	0.940	127	0.767	163	0.798	199	0.748	235	0.836	271	0.443	307	0.396
20	0.398	56	0.918	92	0.954	128	0.780	164	0.814	200	0.749	236	0.822	272	0.449	308	0.401
21	0.406	57	0.922	93	0.966	129	0.795	165	0.832	201	0.749	237	0.808	273	0.454	309	0.406
22	0.416	58	0.927	94	0.976	130	0.812	166	0.851	202	0.752	238	0.794	274	0.458	310	0.411
23	0.427	59	0.932	95	0.983	131	0.823	167	0.871	203	0.758	239	0.780	275	0.460	311	0.417
24	0.440	60	0.938	96	0.990	132	0.836	168	0.891	204	0.767	240	0.766	276	0.463	312	0.423
25	0.455	61	0.932	97	0.994	133	0.850	169	0.910	205	0.778	241	0.749	277	0.464	313	0.429
26	0.471	62	0.924	98	0.995	134	0.865	170	0.928	206	0.788	242	0.731	278	0.463	314	0.436
27	0.488	63	0.917	99	0.995	135	0.880	171	0.944	207	0.800	243	0.712	279	0.461	315	0.442
28	0.507	64	0.909	100	0.992	136	0.889	172	0.958	208	0.813	244	0.694	280	0.457	316	0.441
29	0.526	65	0.902	101	0.990	137	0.898	173	0.971	209	0.826	245	0.674	281	0.455	317	0.440
30	0.547	66	0.890	102	0.985	138	0.908	174	0.981	210	0.841	246	0.654	282	0.451	318	0.440
31	0.567	67	0.879	103	0.979	139	0.918	175	0.988	211	0.851	247	0.634	283	0.446	319	0.439
32	0.587	68	0.868	104	0.971	140	0.927	176	0.995	212	0.862	248	0.613	284	0.440	320	0.439
33	0.608	69	0.857	105	0.961	141	0.921	177	0.999	213	0.873	249	0.592	285	0.433	321	0.436
34	0.628	70	0.848	106	0.951	142	0.914	178	1.000	214	0.884	250	0.572	286	0.426	322	0.433
35	0.649	71	0.834	107	0.939	143	0.907	179	0.998	215	0.895	251	0.551	287	0.418	323	0.430

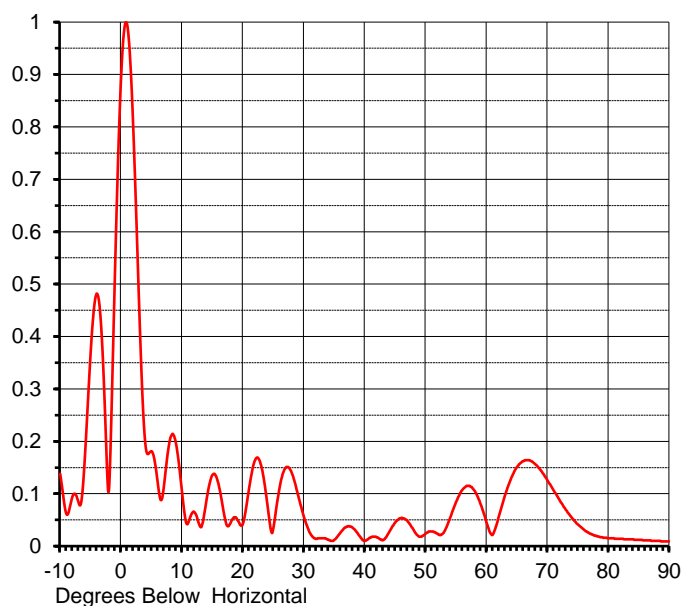
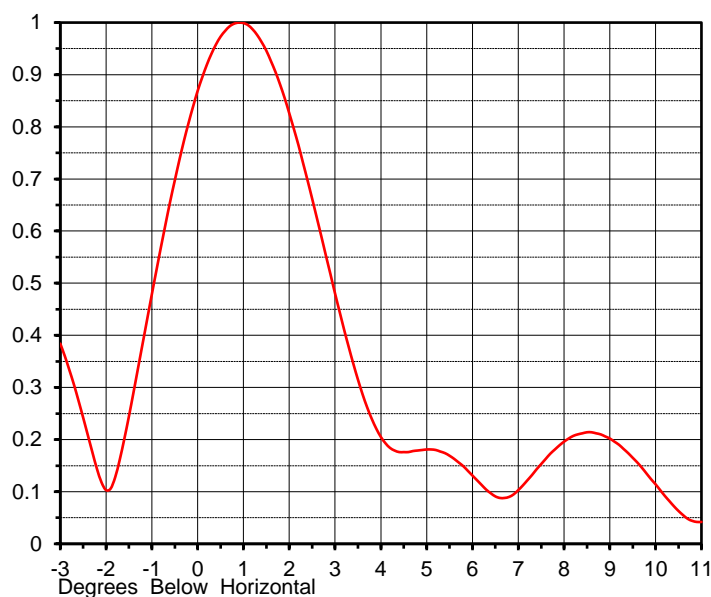
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ELEVATION PATTERN

Proposal No. **C-70879**
 Date **28-Jun-17**
 Call Letters **WSKA**
 Channel **25**
 Frequency **539 MHz**
 Antenna Type **TUA-C4SP-8/28/M-1-T**

RMS Directivity at Main Lobe **14.9 (11.74 dB)**
 RMS Directivity at Horizontal **12.0 (10.79 dB)**
Calculated

Beam Tilt **0.80 deg**
 Pattern Number **08U149080**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.138	10.0	0.103	30.0	0.056	50.0	0.024	70.0	0.125
-9.0	0.062	11.0	0.044	31.0	0.025	51.0	0.028	71.0	0.106
-8.0	0.094	12.0	0.065	32.0	0.014	52.0	0.023	72.0	0.087
-7.0	0.084	13.0	0.037	33.0	0.015	53.0	0.027	73.0	0.069
-6.0	0.159	14.0	0.087	34.0	0.012	54.0	0.054	74.0	0.054
-5.0	0.369	15.0	0.136	35.0	0.012	55.0	0.085	75.0	0.041
-4.0	0.482	16.0	0.118	36.0	0.026	56.0	0.107	76.0	0.031
-3.0	0.360	17.0	0.055	37.0	0.037	57.0	0.115	77.0	0.024
-2.0	0.106	18.0	0.045	38.0	0.035	58.0	0.106	78.0	0.019
-1.0	0.525	19.0	0.052	39.0	0.021	59.0	0.080	79.0	0.017
0.0	0.895	20.0	0.043	40.0	0.010	60.0	0.044	80.0	0.015
1.0	0.995	21.0	0.110	41.0	0.017	61.0	0.022	81.0	0.014
2.0	0.796	22.0	0.164	42.0	0.017	62.0	0.057	82.0	0.014
3.0	0.445	23.0	0.153	43.0	0.012	63.0	0.097	83.0	0.013
4.0	0.193	24.0	0.080	44.0	0.027	64.0	0.129	84.0	0.013
5.0	0.181	25.0	0.035	45.0	0.045	65.0	0.151	85.0	0.012
6.0	0.122	26.0	0.111	46.0	0.054	66.0	0.162	86.0	0.011
7.0	0.112	27.0	0.149	47.0	0.048	67.0	0.164	87.0	0.010
8.0	0.202	28.0	0.140	48.0	0.031	68.0	0.156	88.0	0.010
9.0	0.196	29.0	0.099	49.0	0.018	69.0	0.143	89.0	0.009
								90.0	0.009

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