

AZIMUTH PATTERN Horizontal Polarization

Proposal No. **C-70367**
 Date **16-Mar-17**
 Call Letters **WPXR**
 Channel **27**
 Frequency **551 MHz**
 Antenna Type **TUP-SP4-8S-1**
 Gain **2.68 (4.28dB)**
 Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.526	36	0.659	72	0.999	108	0.552	144	0.212	180	0.226	216	0.401	252	0.699	288	0.544
1	0.515	37	0.651	73	0.997	109	0.545	145	0.214	181	0.231	217	0.412	253	0.698	289	0.562
2	0.506	38	0.647	74	0.995	110	0.539	146	0.218	182	0.238	218	0.424	254	0.697	290	0.580
3	0.501	39	0.645	75	0.993	111	0.534	147	0.223	183	0.247	219	0.437	255	0.695	291	0.596
4	0.499	40	0.647	76	0.990	112	0.531	148	0.228	184	0.257	220	0.451	256	0.693	292	0.611
5	0.500	41	0.653	77	0.986	113	0.528	149	0.234	185	0.268	221	0.467	257	0.689	293	0.624
6	0.506	42	0.662	78	0.981	114	0.527	150	0.240	186	0.280	222	0.482	258	0.685	294	0.635
7	0.515	43	0.674	79	0.976	115	0.525	151	0.246	187	0.292	223	0.498	259	0.680	295	0.643
8	0.528	44	0.689	80	0.970	116	0.523	152	0.251	188	0.305	224	0.514	260	0.674	296	0.649
9	0.544	45	0.706	81	0.964	117	0.521	153	0.256	189	0.317	225	0.529	261	0.667	297	0.653
10	0.563	46	0.725	82	0.956	118	0.519	154	0.260	190	0.330	226	0.545	262	0.658	298	0.653
11	0.584	47	0.745	83	0.948	119	0.516	155	0.263	191	0.342	227	0.560	263	0.648	299	0.652
12	0.606	48	0.766	84	0.939	120	0.511	156	0.266	192	0.353	228	0.574	264	0.637	300	0.648
13	0.628	49	0.787	85	0.928	121	0.505	157	0.268	193	0.363	229	0.587	265	0.625	301	0.642
14	0.651	50	0.809	86	0.917	122	0.498	158	0.269	194	0.372	230	0.600	266	0.612	302	0.634
15	0.673	51	0.829	87	0.905	123	0.490	159	0.270	195	0.380	231	0.612	267	0.597	303	0.624
16	0.694	52	0.849	88	0.891	124	0.480	160	0.270	196	0.387	232	0.623	268	0.581	304	0.612
17	0.714	53	0.869	89	0.877	125	0.468	161	0.270	197	0.392	233	0.633	269	0.564	305	0.600
18	0.732	54	0.886	90	0.862	126	0.455	162	0.269	198	0.396	234	0.642	270	0.547	306	0.587
19	0.747	55	0.903	91	0.845	127	0.441	163	0.268	199	0.398	235	0.650	271	0.530	307	0.574
20	0.760	56	0.918	92	0.828	128	0.425	164	0.267	200	0.399	236	0.658	272	0.512	308	0.561
21	0.770	57	0.932	93	0.809	129	0.409	165	0.265	201	0.399	237	0.665	273	0.495	309	0.549
22	0.777	58	0.944	94	0.791	130	0.391	166	0.262	202	0.398	238	0.670	274	0.479	310	0.539
23	0.782	59	0.955	95	0.771	131	0.373	167	0.259	203	0.396	239	0.676	275	0.465	311	0.529
24	0.783	60	0.964	96	0.751	132	0.354	168	0.255	204	0.393	240	0.680	276	0.452	312	0.522
25	0.781	61	0.972	97	0.731	133	0.335	169	0.251	205	0.390	241	0.684	277	0.443	313	0.517
26	0.777	62	0.979	98	0.710	134	0.316	170	0.246	206	0.386	242	0.688	278	0.436	314	0.515
27	0.770	63	0.984	99	0.690	135	0.298	171	0.242	207	0.383	243	0.691	279	0.433	315	0.516
28	0.761	64	0.989	100	0.670	136	0.281	172	0.237	208	0.380	244	0.693	280	0.434	316	0.518
29	0.750	65	0.993	101	0.651	137	0.264	173	0.232	209	0.377	245	0.695	281	0.439	317	0.524
30	0.737	66	0.995	102	0.632	138	0.250	174	0.228	210	0.376	246	0.697	282	0.447	318	0.531
31	0.723	67	0.997	103	0.615	139	0.237	175	0.224	211	0.376	247	0.698	283	0.459	319	0.540
32	0.709	68	0.999	104	0.599	140	0.227	176	0.222	212	0.377	248	0.699	284	0.473	320	0.551
33	0.695	69	1.000	105	0.585	141	0.220	177	0.220	213	0.380	249	0.700	285	0.489	321	0.563
34	0.682	70	1.000	106	0.572	142	0.215	178	0.220	214	0.390	250	0.700	286	0.507	322	0.580
35	0.669	71	1.000	107	0.561	143	0.212	179	0.222	215	0.393	251	0.700	287	0.525	323	0.588

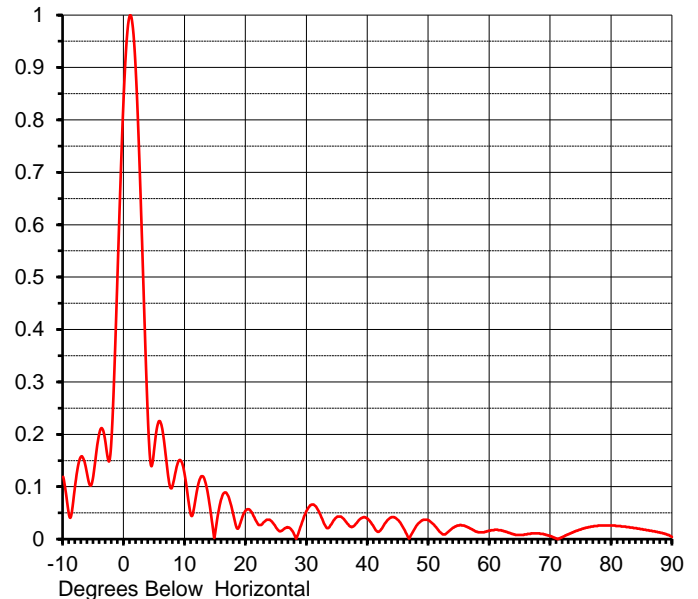
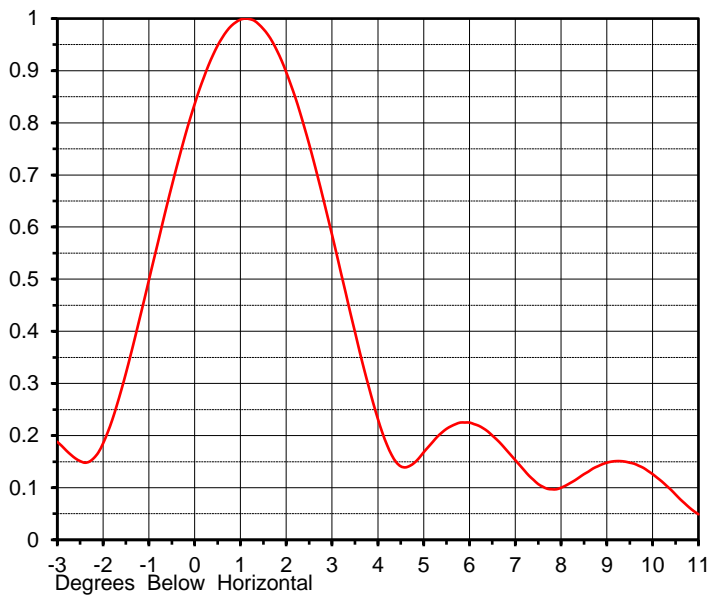
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ELEVATION PATTERN

Proposal No. **C-70367**
 Date **16-Mar-17**
 Call Letters **WPXR**
 Channel **27**
 Frequency **551 MHz**
 Antenna Type **TUP-SP4-8S-1**

RMS Directivity at Main Lobe **18.0 (12.55 dB)**
 RMS Directivity at Horizontal **12.6 (11.00 dB)**
Calculated

Beam Tilt **1.00 deg**
 Pattern Number **8U180100**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.119	10.0	0.119	30.0	0.055	50.0	0.036	70.0	0.006
-9.0	0.044	11.0	0.045	31.0	0.066	51.0	0.025	71.0	0.001
-8.0	0.106	12.0	0.095	32.0	0.052	52.0	0.012	72.0	0.004
-7.0	0.158	13.0	0.119	33.0	0.026	53.0	0.012	73.0	0.010
-6.0	0.120	14.0	0.068	34.0	0.028	54.0	0.022	74.0	0.015
-5.0	0.125	15.0	0.016	35.0	0.043	55.0	0.026	75.0	0.019
-4.0	0.205	16.0	0.078	36.0	0.039	56.0	0.025	76.0	0.022
-3.0	0.180	17.0	0.084	37.0	0.025	57.0	0.019	77.0	0.024
-2.0	0.206	18.0	0.043	38.0	0.029	58.0	0.014	78.0	0.026
-1.0	0.535	19.0	0.028	39.0	0.040	59.0	0.013	79.0	0.026
0.0	0.863	20.0	0.055	40.0	0.039	60.0	0.016	80.0	0.026
1.0	1.000	21.0	0.050	41.0	0.023	61.0	0.018	81.0	0.025
2.0	0.873	22.0	0.028	42.0	0.016	62.0	0.016	82.0	0.024
3.0	0.548	23.0	0.033	43.0	0.033	63.0	0.013	83.0	0.022
4.0	0.205	24.0	0.036	44.0	0.042	64.0	0.009	84.0	0.021
5.0	0.178	25.0	0.021	45.0	0.036	65.0	0.008	85.0	0.019
6.0	0.222	26.0	0.017	46.0	0.018	66.0	0.009	86.0	0.017
7.0	0.143	27.0	0.022	47.0	0.006	67.0	0.011	87.0	0.015
8.0	0.104	28.0	0.007	48.0	0.026	68.0	0.011	88.0	0.012
9.0	0.150	29.0	0.025	49.0	0.036	69.0	0.009	89.0	0.009
								90.0	0.000

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