AZIMUTH PATTERN
Horizontal Polarization
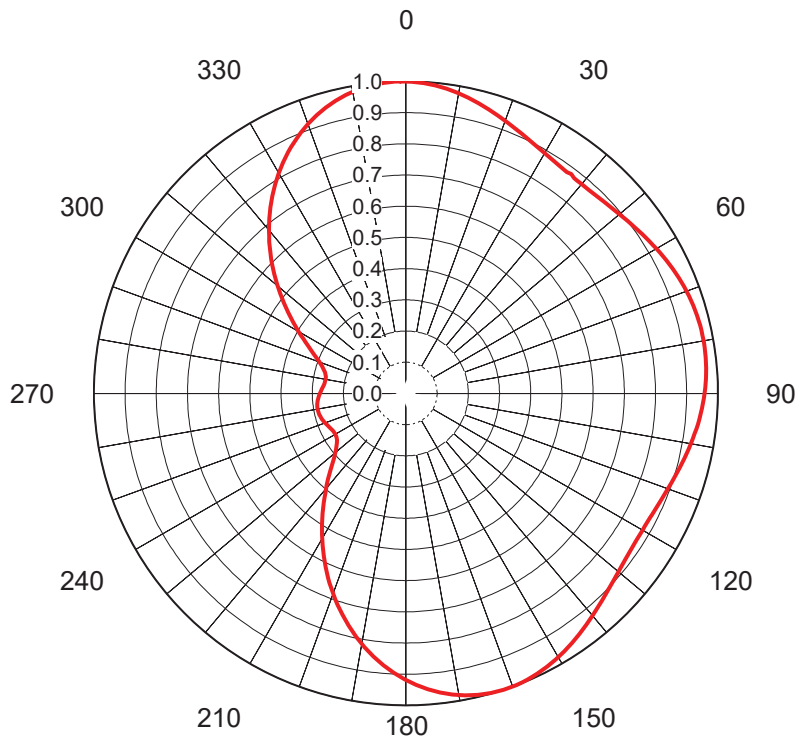
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Proposal No.	**C-70374-2**
Date	**6-Mar-17**
Call Letters	**WPXV**
Channel	**32**
Frequency	**581 MHz**
Antenna Type	**TFU-26ETT/VP 4CT160**
Gain	**1.62 (2.11dB)**
	Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	1.000	36	0.877	72	0.962	108	0.900	144	0.950	180	0.918	216	0.450	252	0.279	288	0.283	324	0.738
1	0.999	37	0.880	73	0.963	109	0.897	145	0.955	181	0.910	217	0.437	253	0.281	289	0.289	325	0.752
2	0.998	38	0.876	74	0.965	110	0.894	146	0.959	182	0.901	218	0.423	254	0.283	290	0.295	326	0.765
3	0.997	39	0.876	75	0.966	111	0.891	147	0.964	183	0.891	219	0.410	255	0.284	291	0.303	327	0.778
4	0.995	40	0.876	76	0.967	112	0.888	148	0.968	184	0.881	220	0.397	256	0.285	292	0.311	328	0.790
5	0.992	41	0.876	77	0.968	113	0.886	149	0.972	185	0.871	221	0.385	257	0.286	293	0.320	329	0.803
6	0.990	42	0.877	78	0.969	114	0.884	150	0.976	186	0.861	222	0.372	258	0.287	294	0.329	330	0.815
7	0.987	43	0.878	79	0.969	115	0.882	151	0.980	187	0.850	223	0.361	259	0.287	295	0.339	331	0.827
8	0.984	44	0.880	80	0.969	116	0.880	152	0.984	188	0.838	224	0.350	260	0.287	296	0.350	332	0.838
9	0.980	45	0.882	81	0.969	117	0.878	153	0.987	189	0.827	225	0.339	261	0.287	297	0.361	333	0.850
10	0.976	46	0.884	82	0.969	118	0.877	154	0.990	190	0.815	226	0.329	262	0.287	298	0.372	334	0.861
11	0.972	47	0.886	83	0.968	119	0.876	155	0.992	191	0.803	227	0.320	263	0.286	299	0.385	335	0.871
12	0.968	48	0.888	84	0.967	120	0.876	156	0.995	192	0.790	228	0.311	264	0.285	300	0.397	336	0.881
13	0.964	49	0.891	85	0.966	121	0.876	157	0.997	193	0.778	229	0.303	265	0.284	301	0.410	337	0.891
14	0.959	50	0.894	86	0.965	122	0.876	158	0.998	194	0.765	230	0.295	266	0.283	302	0.423	338	0.901
15	0.955	51	0.897	87	0.963	123	0.876	159	0.999	195	0.752	231	0.289	267	0.281	303	0.437	339	0.910
16	0.950	52	0.900	88	0.962	124	0.877	160	1.000	196	0.738	232	0.283	268	0.279	304	0.450	340	0.918
17	0.945	53	0.903	89	0.960	125	0.878	161	1.000	197	0.725	233	0.277	269	0.278	305	0.464	341	0.927
18	0.940	54	0.907	90	0.957	126	0.880	162	1.000	198	0.711	234	0.273	270	0.276	306	0.479	342	0.935
19	0.935	55	0.910	91	0.955	127	0.882	163	0.999	199	0.697	235	0.269	271	0.274	307	0.493	343	0.942
20	0.930	56	0.913	92	0.953	128	0.884	164	0.998	200	0.683	236	0.266	272	0.272	308	0.507	344	0.949
21	0.926	57	0.917	93	0.950	129	0.886	165	0.997	201	0.669	237	0.264	273	0.270	309	0.522	345	0.956
22	0.921	58	0.921	94	0.947	130	0.889	166	0.995	202	0.654	238	0.263	274	0.268	310	0.537	346	0.962
23	0.916	59	0.924	95	0.944	131	0.892	167	0.992	203	0.640	239	0.262	275	0.266	311	0.551	347	0.968
24	0.912	60	0.928	96	0.941	132	0.896	168	0.989	204	0.625	240	0.261	276	0.264	312	0.566	348	0.973
25	0.907	61	0.931	97	0.938	133	0.899	169	0.986	205	0.610	241	0.261	277	0.263	313	0.581	349	0.978
26	0.903	62	0.934	98	0.934	134	0.903	170	0.982	206	0.596	242	0.262	278	0.262	314	0.596	350	0.982
27	0.899	63	0.938	99	0.931	135	0.907	171	0.978	207	0.581	243	0.263	279	0.261	315	0.610	351	0.986
28	0.896	64	0.941	100	0.928	136	0.912	172	0.973	208	0.566	244	0.264	280	0.261	316	0.625	352	0.989
29	0.892	65	0.944	101	0.924	137	0.916	173	0.968	209	0.551	245	0.266	281	0.262	317	0.640	353	0.992
30	0.889	66	0.947	102	0.921	138	0.921	174	0.962	210	0.537	246	0.268	282	0.263	318	0.654	354	0.995
31	0.886	67	0.950	103	0.917	139	0.926	175	0.956	211	0.522	247	0.270	283	0.264	319	0.669	355	0.997
32	0.884	68	0.953	104	0.913	140	0.930	176	0.949	212	0.507	248	0.272	284	0.266	320	0.683	356	0.998
33	0.882	69	0.955	105	0.910	141	0.935	177	0.942	213	0.493	249	0.274	285	0.269	321	0.697	357	0.999
34	0.880	70	0.957	106	0.907	142	0.940	178	0.935	214	0.479	250	0.276	286	0.273	322	0.711	358	1.000
35	0.878	71	0.960	107	0.903	143	0.945	179	0.927	215	0.464	251	0.278	287	0.277	323	0.725	359	1.000

Dielectric®

AZIMUTH PATTERN
Vertical Polarization

Proposal No.	**C-70374-2**
Date	**6-Mar-17**
Call Letters	**WPXV**
Channel	**32**
Frequency	**581 MHz**
Antenna Type	**TFU-26ETT/VP 4CT160**
Gain	**2.2 (3.43dB)**
	Calculated
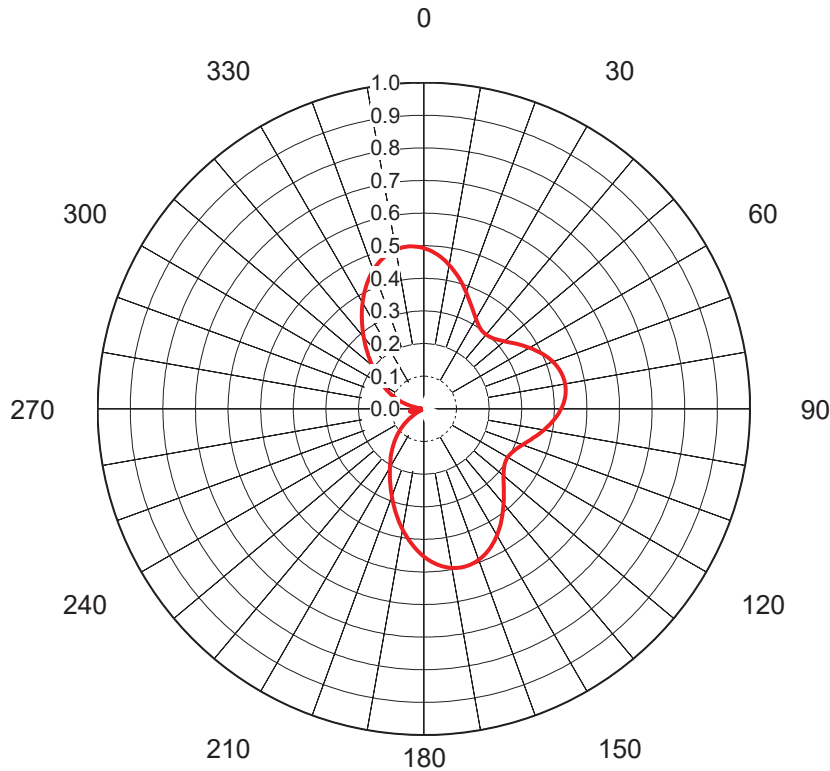
Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.493	36	0.300	72	0.428	108	0.332	144	0.409	180	0.453	216	0.169	252	0.031	288	0.076	324	0.322
1	0.490	37	0.298	73	0.431	109	0.327	145	0.415	181	0.446	217	0.163	253	0.034	289	0.082	325	0.331
2	0.487	38	0.297	74	0.433	110	0.322	146	0.422	182	0.439	218	0.157	254	0.036	290	0.088	326	0.340
3	0.483	39	0.297	75	0.435	111	0.318	147	0.429	183	0.432	219	0.152	255	0.038	291	0.094	327	0.349
4	0.479	40	0.297	76	0.437	112	0.314	148	0.436	184	0.425	220	0.146	256	0.040	292	0.099	328	0.358
5	0.475	41	0.297	77	0.438	113	0.311	149	0.442	185	0.417	221	0.140	257	0.041	293	0.105	329	0.367
6	0.470	42	0.299	78	0.439	114	0.307	150	0.448	186	0.409	222	0.134	258	0.042	294	0.111	330	0.375
7	0.465	43	0.300	79	0.440	115	0.304	151	0.454	187	0.401	223	0.129	259	0.043	295	0.117	331	0.384
8	0.460	44	0.302	80	0.440	116	0.302	152	0.460	188	0.393	224	0.123	260	0.043	296	0.123	332	0.393
9	0.454	45	0.304	81	0.440	117	0.300	153	0.465	189	0.384	225	0.117	261	0.043	297	0.129	333	0.401
10	0.448	46	0.307	82	0.439	118	0.299	154	0.470	190	0.375	226	0.111	262	0.042	298	0.134	334	0.409
11	0.442	47	0.311	83	0.438	119	0.297	155	0.475	191	0.367	227	0.105	263	0.041	299	0.140	335	0.417
12	0.436	48	0.314	84	0.437	120	0.297	156	0.479	192	0.358	228	0.099	264	0.040	300	0.146	336	0.425
13	0.429	49	0.318	85	0.435	121	0.297	157	0.483	193	0.349	229	0.094	265	0.038	301	0.152	337	0.432
14	0.422	50	0.322	86	0.433	122	0.297	158	0.487	194	0.340	230	0.088	266	0.036	302	0.157	338	0.439
15	0.415	51	0.327	87	0.431	123	0.298	159	0.490	195	0.331	231	0.082	267	0.034	303	0.163	339	0.446
16	0.409	52	0.332	88	0.428	124	0.300	160	0.493	196	0.322	232	0.076	268	0.031	304	0.169	340	0.453
17	0.401	53	0.336	89	0.425	125	0.302	161	0.495	197	0.313	233	0.070	269	0.028	305	0.175	341	0.459
18	0.394	54	0.342	90	0.421	126	0.304	162	0.497	198	0.304	234	0.063	270	0.024	306	0.182	342	0.464
19	0.387	55	0.347	91	0.417	127	0.307	163	0.498	199	0.295	235	0.057	271	0.021	307	0.188	343	0.470
20	0.380	56	0.352	92	0.413	128	0.311	164	0.499	200	0.286	236	0.051	272	0.017	308	0.194	344	0.475
21	0.373	57	0.358	93	0.409	129	0.315	165	0.500	201	0.278	237	0.045	273	0.013	309	0.201	345	0.479
22	0.366	58	0.363	94	0.405	130	0.319	166	0.500	202	0.269	238	0.039	274	0.010	310	0.208	346	0.483
23	0.360	59	0.369	95	0.400	131	0.324	167	0.500	203	0.261	239	0.034	275	0.008	311	0.215	347	0.487
24	0.353	60	0.374	96	0.395	132	0.329	168	0.499	204	0.253	240	0.028	276	0.009	312	0.222	348	0.490
25	0.347	61	0.379	97	0.390	133	0.335	169	0.497	205	0.245	241	0.023	277	0.013	313	0.230	349	0.493
26	0.341	62	0.385	98	0.385	134	0.341	170	0.495	206	0.237	242	0.017	278	0.017	314	0.237	350	0.495
27	0.335	63	0.390	99	0.379	135	0.347	171	0.493	207	0.230	243	0.013	279	0.023	315	0.245	351	0.497
28	0.329	64	0.395	100	0.374	136	0.353	172	0.490	208	0.222	244	0.009	280	0.028	316	0.253	352	0.499
29	0.324	65	0.400	101	0.369	137	0.360	173	0.487	209	0.215	245	0.008	281	0.034	317	0.261	353	0.500
30	0.319	66	0.405	102	0.363	138	0.366	174	0.483	210	0.208	246	0.010	282	0.039	318	0.269	354	0.500
31	0.315	67	0.409	103	0.358	139	0.373	175	0.479	211	0.201	247	0.013	283	0.045	319	0.278	355	0.500
32	0.311	68	0.413	104	0.352	140	0.380	176	0.475	212	0.194	248	0.017	284	0.051	320	0.286	356	0.499
33	0.307	69	0.417	105	0.347	141	0.387	177	0.470	213	0.188	249	0.021	285	0.057	321	0.295	357	0.498
34	0.304	70	0.421	106	0.342	142	0.394	178	0.464	214	0.182	250	0.024	286	0.063	322	0.304	358	0.497
35	0.302	71	0.425	107	0.336	143	0.401	179	0.459	215	0.175	251	0.028	287	0.070	323	0.313	359	0.495

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Dielectric®

ELEVATION PATTERN

Proposal No.	**C-70374-2**
Date	**6-Mar-17**
Call Letters	**WPXV**
Channel	**32**
Frequency	**581 MHz**
Antenna Type	**TFU-26ETT/VP 4CT160**

RMS Directivity at Main Lobe   **23.5 (13.71 dB)**   Beam Tilt   **1.00 deg**
RMS Directivity at Horizontal   **10.7 (10.29 dB)**   Drawing Number   **26E235100**
Calculated
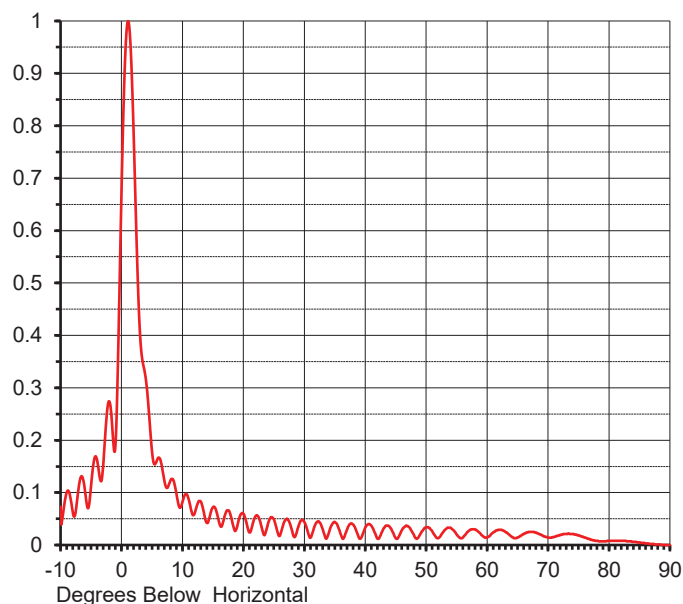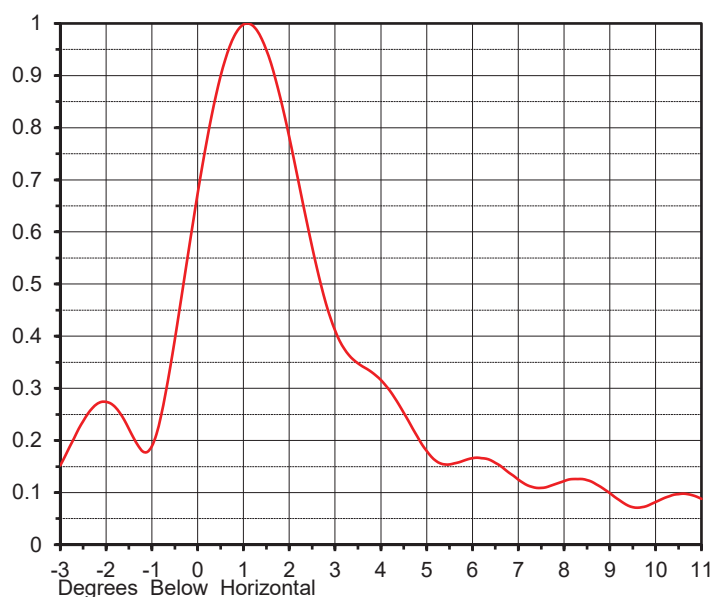
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.073	10.0	0.082	30.0	0.044	50.0	0.034	70.0	0.014
-9.0	0.100	11.0	0.088	31.0	0.014	51.0	0.026	71.0	0.015
-8.0	0.063	12.0	0.060	32.0	0.043	52.0	0.013	72.0	0.019
-7.0	0.112	13.0	0.083	33.0	0.031	53.0	0.028	73.0	0.021
-6.0	0.104	14.0	0.042	34.0	0.022	54.0	0.033	74.0	0.021
-5.0	0.112	15.0	0.072	35.0	0.044	55.0	0.020	75.0	0.018
-4.0	0.162	16.0	0.044	36.0	0.020	56.0	0.014	76.0	0.014
-3.0	0.152	17.0	0.058	37.0	0.029	57.0	0.027	77.0	0.010
-2.0	0.274	18.0	0.053	38.0	0.039	58.0	0.030	78.0	0.008
-1.0	0.189	19.0	0.036	39.0	0.013	59.0	0.020	79.0	0.007
0.0	0.674	20.0	0.060	40.0	0.033	60.0	0.014	80.0	0.008
1.0	0.998	21.0	0.024	41.0	0.037	61.0	0.024	81.0	0.008
2.0	0.782	22.0	0.055	42.0	0.012	62.0	0.029	82.0	0.008
3.0	0.411	23.0	0.034	43.0	0.031	63.0	0.025	83.0	0.007
4.0	0.316	24.0	0.039	44.0	0.035	64.0	0.016	84.0	0.006
5.0	0.180	25.0	0.049	45.0	0.013	65.0	0.014	85.0	0.005
6.0	0.166	26.0	0.018	46.0	0.028	66.0	0.021	86.0	0.003
7.0	0.125	27.0	0.049	47.0	0.036	67.0	0.025	87.0	0.002
8.0	0.122	28.0	0.027	48.0	0.019	68.0	0.024	88.0	0.001
9.0	0.099	29.0	0.034	49.0	0.020	69.0	0.019	89.0	0.000
								90.0	0.000

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