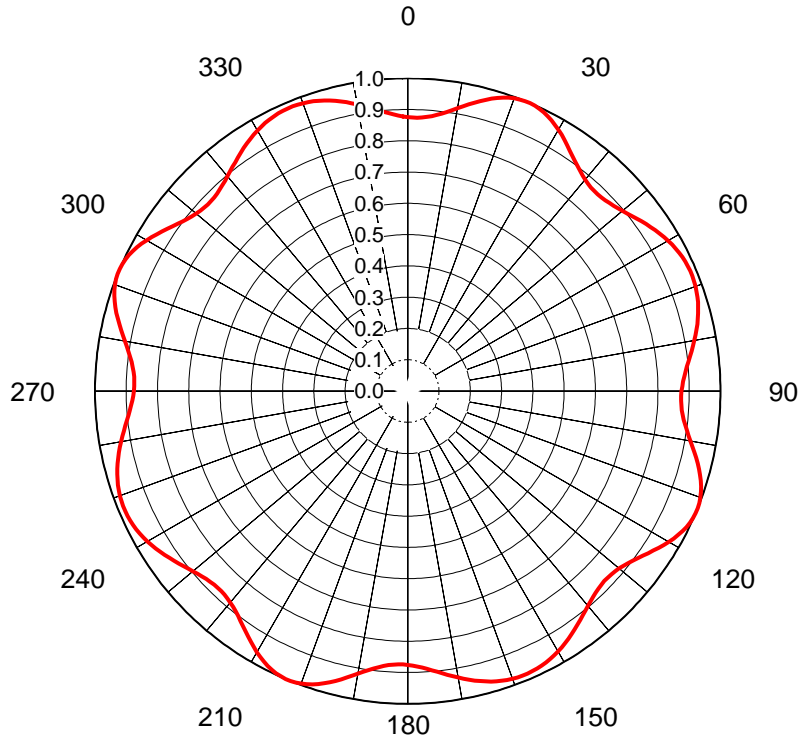


## AZIMUTH PATTERN Horizontal Polarization

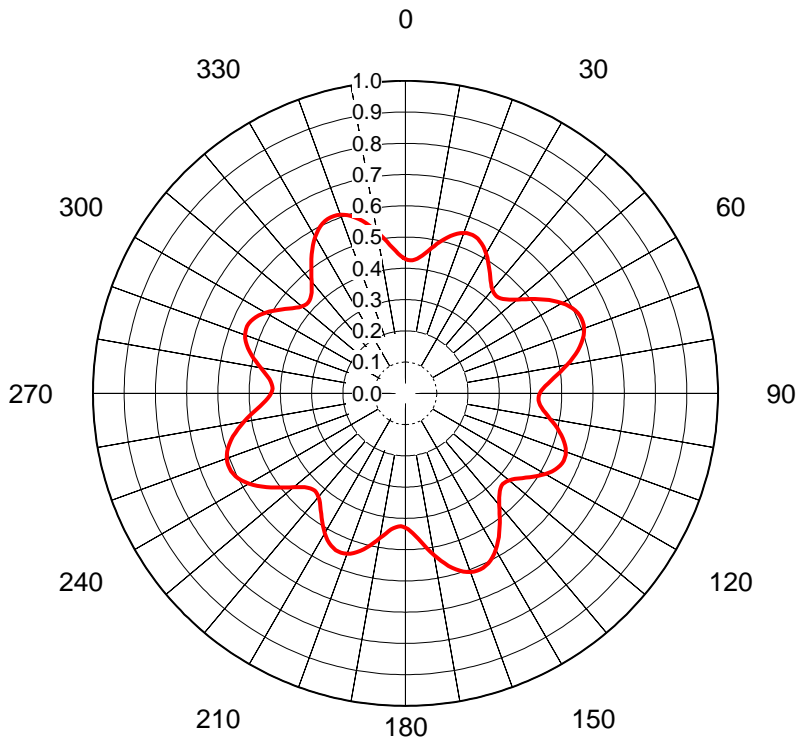


Proposal No. **C-71881-5**  
 Date **30-Aug-22**  
 Call Letters **KTVT**  
 Channel **19**  
 Frequency **503 MHz**  
 Antenna Type **TFU-26EBT/VP-R 08**  
 Gain **1.14 (0.59dB)**  
 Calculated  
 Circularity **+/- 1.0 dB**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.876	36	0.909	72	0.974	108	0.986	144	0.923	180	0.876	216	0.909	252	0.974	288	0.986	324	0.923
1	0.874	37	0.901	73	0.970	109	0.992	145	0.930	181	0.874	217	0.901	253	0.970	289	0.992	325	0.930
2	0.874	38	0.894	74	0.966	110	0.996	146	0.937	182	0.874	218	0.894	254	0.966	290	0.996	326	0.937
3	0.876	39	0.888	75	0.961	111	0.999	147	0.944	183	0.876	219	0.888	255	0.961	291	0.999	327	0.944
4	0.878	40	0.882	76	0.956	112	1.000	148	0.950	184	0.878	220	0.882	256	0.956	292	1.000	328	0.950
5	0.882	41	0.878	77	0.950	113	1.000	149	0.956	185	0.882	221	0.878	257	0.950	293	1.000	329	0.956
6	0.888	42	0.876	78	0.944	114	0.999	150	0.961	186	0.888	222	0.876	258	0.944	294	0.999	330	0.961
7	0.894	43	0.874	79	0.937	115	0.996	151	0.966	187	0.894	223	0.874	259	0.937	295	0.996	331	0.966
8	0.901	44	0.874	80	0.930	116	0.992	152	0.970	188	0.901	224	0.874	260	0.930	296	0.992	332	0.970
9	0.909	45	0.876	81	0.923	117	0.986	153	0.974	189	0.909	225	0.876	261	0.923	297	0.986	333	0.974
10	0.918	46	0.878	82	0.916	118	0.980	154	0.977	190	0.918	226	0.878	262	0.916	298	0.980	334	0.977
11	0.927	47	0.881	83	0.909	119	0.972	155	0.979	191	0.927	227	0.881	263	0.909	299	0.972	335	0.979
12	0.936	48	0.885	84	0.903	120	0.964	156	0.981	192	0.936	228	0.885	264	0.903	300	0.964	336	0.981
13	0.946	49	0.891	85	0.896	121	0.955	157	0.981	193	0.946	229	0.891	265	0.896	301	0.955	337	0.981
14	0.955	50	0.896	86	0.891	122	0.946	158	0.981	194	0.955	230	0.896	266	0.891	302	0.946	338	0.981
15	0.964	51	0.903	87	0.885	123	0.937	159	0.981	195	0.964	231	0.903	267	0.885	303	0.937	339	0.981
16	0.972	52	0.909	88	0.881	124	0.927	160	0.979	196	0.972	232	0.909	268	0.881	304	0.927	340	0.979
17	0.980	53	0.916	89	0.878	125	0.918	161	0.977	197	0.980	233	0.916	269	0.878	305	0.918	341	0.977
18	0.986	54	0.923	90	0.876	126	0.909	162	0.974	198	0.986	234	0.923	270	0.876	306	0.909	342	0.974
19	0.992	55	0.930	91	0.874	127	0.901	163	0.970	199	0.992	235	0.930	271	0.874	307	0.901	343	0.970
20	0.996	56	0.937	92	0.874	128	0.894	164	0.966	200	0.996	236	0.937	272	0.874	308	0.894	344	0.966
21	0.999	57	0.944	93	0.876	129	0.888	165	0.961	201	0.999	237	0.944	273	0.876	309	0.888	345	0.961
22	1.000	58	0.950	94	0.878	130	0.882	166	0.956	202	1.000	238	0.950	274	0.878	310	0.882	346	0.956
23	1.000	59	0.956	95	0.882	131	0.878	167	0.950	203	1.000	239	0.956	275	0.882	311	0.878	347	0.950
24	0.999	60	0.961	96	0.888	132	0.876	168	0.944	204	0.999	240	0.961	276	0.888	312	0.876	348	0.944
25	0.996	61	0.966	97	0.894	133	0.874	169	0.937	205	0.996	241	0.966	277	0.894	313	0.874	349	0.937
26	0.992	62	0.970	98	0.901	134	0.874	170	0.930	206	0.992	242	0.970	278	0.901	314	0.874	350	0.930
27	0.986	63	0.974	99	0.909	135	0.876	171	0.923	207	0.986	243	0.974	279	0.909	315	0.876	351	0.923
28	0.980	64	0.977	100	0.918	136	0.878	172	0.916	208	0.980	244	0.977	280	0.918	316	0.878	352	0.916
29	0.972	65	0.979	101	0.927	137	0.881	173	0.909	209	0.972	245	0.979	281	0.927	317	0.881	353	0.909
30	0.964	66	0.981	102	0.936	138	0.886	174	0.903	210	0.964	246	0.981	282	0.937	318	0.885	354	0.903
31	0.955	67	0.981	103	0.946	139	0.891	175	0.896	211	0.955	247	0.981	283	0.946	319	0.891	355	0.896
32	0.946	68	0.981	104	0.955	140	0.896	176	0.891	212	0.946	248	0.981	284	0.955	320	0.896	356	0.891
33	0.936	69	0.981	105	0.964	141	0.903	177	0.885	213	0.937	249	0.981	285	0.964	321	0.903	357	0.885
34	0.927	70	0.979	106	0.972	142	0.909	178	0.881	214	0.927	250	0.979	286	0.972	322	0.909	358	0.881
35	0.918	71	0.977	107	0.980	143	0.916	179	0.878	215	0.918	251	0.977	287	0.980	323	0.916	359	0.878

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## AZIMUTH PATTERN Vertical Polarization



Proposal No. **C-71881-5**  
 Date **30-Aug-22**  
 Call Letters **KTVT**  
 Channel **19**  
 Frequency **503 MHz**  
 Antenna Type **TFU-26EBT/VP-R O8**  
 Gain **1.43 (1.56dB)**  
 Calculated  
 Circularity **+/- 2.0 dB**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.430	36	0.461	72	0.599	108	0.537	144	0.513	180	0.430	216	0.461	252	0.599	288	0.537	324	0.513
1	0.427	37	0.453	73	0.593	109	0.542	145	0.525	181	0.427	217	0.453	253	0.593	289	0.542	325	0.525
2	0.426	38	0.445	74	0.586	110	0.546	146	0.537	182	0.426	218	0.445	254	0.586	290	0.546	326	0.537
3	0.426	39	0.438	75	0.578	111	0.549	147	0.548	183	0.426	219	0.438	255	0.578	291	0.549	327	0.548
4	0.429	40	0.433	76	0.569	112	0.550	148	0.559	184	0.429	220	0.433	256	0.569	292	0.550	328	0.559
5	0.433	41	0.429	77	0.559	113	0.550	149	0.569	185	0.433	221	0.429	257	0.559	293	0.550	329	0.569
6	0.438	42	0.426	78	0.548	114	0.549	150	0.578	186	0.438	222	0.426	258	0.548	294	0.549	330	0.578
7	0.445	43	0.426	79	0.537	115	0.546	151	0.586	187	0.445	223	0.426	259	0.537	295	0.546	331	0.586
8	0.453	44	0.427	80	0.525	116	0.542	152	0.593	188	0.453	224	0.427	260	0.525	296	0.542	332	0.593
9	0.461	45	0.430	81	0.513	117	0.537	153	0.599	189	0.461	225	0.430	261	0.513	297	0.537	333	0.599
10	0.470	46	0.434	82	0.501	118	0.531	154	0.604	190	0.470	226	0.434	262	0.501	298	0.531	334	0.604
11	0.480	47	0.441	83	0.489	119	0.524	155	0.608	191	0.480	227	0.441	263	0.489	299	0.524	335	0.608
12	0.489	48	0.448	84	0.478	120	0.517	156	0.611	192	0.489	228	0.448	264	0.478	300	0.517	336	0.611
13	0.499	49	0.457	85	0.467	121	0.508	157	0.612	193	0.499	229	0.457	265	0.467	301	0.508	337	0.612
14	0.508	50	0.467	86	0.457	122	0.499	158	0.612	194	0.508	230	0.467	266	0.457	302	0.499	338	0.612
15	0.517	51	0.478	87	0.448	123	0.489	159	0.611	195	0.517	231	0.478	267	0.448	303	0.489	339	0.611
16	0.524	52	0.489	88	0.441	124	0.480	160	0.608	196	0.524	232	0.489	268	0.441	304	0.480	340	0.608
17	0.531	53	0.501	89	0.434	125	0.470	161	0.604	197	0.531	233	0.501	269	0.434	305	0.470	341	0.604
18	0.537	54	0.513	90	0.430	126	0.461	162	0.599	198	0.537	234	0.513	270	0.430	306	0.461	342	0.599
19	0.542	55	0.525	91	0.427	127	0.453	163	0.593	199	0.542	235	0.525	271	0.427	307	0.453	343	0.593
20	0.546	56	0.537	92	0.426	128	0.445	164	0.586	200	0.546	236	0.537	272	0.426	308	0.445	344	0.586
21	0.549	57	0.548	93	0.426	129	0.438	165	0.578	201	0.549	237	0.548	273	0.426	309	0.438	345	0.578
22	0.550	58	0.559	94	0.429	130	0.433	166	0.569	202	0.550	238	0.559	274	0.429	310	0.433	346	0.569
23	0.550	59	0.569	95	0.433	131	0.429	167	0.559	203	0.550	239	0.569	275	0.433	311	0.429	347	0.559
24	0.549	60	0.578	96	0.438	132	0.426	168	0.548	204	0.549	240	0.578	276	0.438	312	0.426	348	0.548
25	0.546	61	0.586	97	0.445	133	0.426	169	0.537	205	0.546	241	0.586	277	0.445	313	0.426	349	0.537
26	0.542	62	0.593	98	0.453	134	0.427	170	0.525	206	0.542	242	0.593	278	0.453	314	0.427	350	0.525
27	0.537	63	0.599	99	0.461	135	0.430	171	0.513	207	0.537	243	0.599	279	0.461	315	0.430	351	0.513
28	0.531	64	0.604	100	0.470	136	0.434	172	0.501	208	0.531	244	0.604	280	0.470	316	0.434	352	0.501
29	0.524	65	0.608	101	0.480	137	0.441	173	0.489	209	0.524	245	0.608	281	0.480	317	0.441	353	0.489
30	0.517	66	0.611	102	0.489	138	0.448	174	0.478	210	0.517	246	0.611	282	0.489	318	0.448	354	0.478
31	0.508	67	0.612	103	0.499	139	0.457	175	0.467	211	0.508	247	0.612	283	0.499	319	0.457	355	0.467
32	0.499	68	0.612	104	0.508	140	0.467	176	0.457	212	0.499	248	0.612	284	0.508	320	0.467	356	0.457
33	0.489	69	0.611	105	0.517	141	0.478	177	0.448	213	0.489	249	0.611	285	0.517	321	0.478	357	0.448
34	0.480	70	0.608	106	0.524	142	0.489	178	0.441	214	0.480	250	0.608	286	0.524	322	0.489	358	0.441
35	0.470	71	0.604	107	0.531	143	0.501	179	0.434	215	0.470	251	0.604	287	0.531	323	0.501	359	0.434

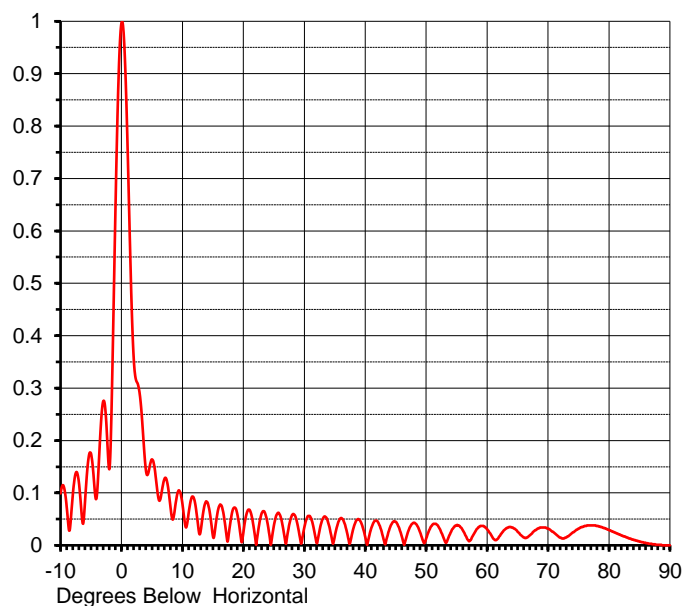
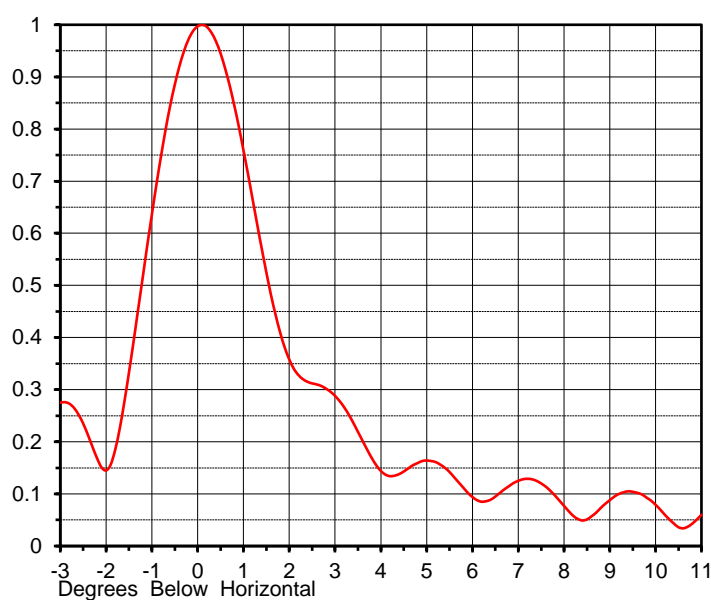
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## ELEVATION PATTERN

Proposal No. **C-71881-5**  
 Date **30-Aug-22**  
 Call Letters **KTVT**  
 Channel **19**  
 Frequency **503 MHz**  
 Antenna Type **TFU-26EBT/VP-R 08**

RMS Directivity at Main Lobe **24.9 ( 13.96 dB )**  
 RMS Directivity at Horizontal **24.8 ( 13.94 dB )**  
**Calculated**

Beam Tilt **0.10 deg**  
 Pattern Number **010**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.099	10.0	0.079	30.0	0.034	50.0	0.013	70.0	0.032
-9.0	0.074	11.0	0.060	31.0	0.054	51.0	0.039	71.0	0.024
-8.0	0.095	12.0	0.085	32.0	0.005	52.0	0.036	72.0	0.015
-7.0	0.121	13.0	0.028	33.0	0.050	53.0	0.010	73.0	0.015
-6.0	0.081	14.0	0.083	34.0	0.040	54.0	0.024	74.0	0.024
-5.0	0.175	15.0	0.018	35.0	0.017	55.0	0.038	75.0	0.032
-4.0	0.101	16.0	0.074	36.0	0.052	56.0	0.029	76.0	0.037
-3.0	0.275	17.0	0.040	37.0	0.025	57.0	0.008	77.0	0.038
-2.0	0.145	18.0	0.053	38.0	0.030	58.0	0.025	78.0	0.037
-1.0	0.636	19.0	0.060	39.0	0.049	59.0	0.037	79.0	0.034
0.0	0.997	20.0	0.024	40.0	0.016	60.0	0.031	80.0	0.029
1.0	0.759	21.0	0.068	41.0	0.033	61.0	0.013	81.0	0.024
2.0	0.358	22.0	0.009	42.0	0.046	62.0	0.017	82.0	0.019
3.0	0.288	23.0	0.061	43.0	0.012	63.0	0.031	83.0	0.015
4.0	0.144	24.0	0.040	44.0	0.032	64.0	0.034	84.0	0.011
5.0	0.164	25.0	0.037	45.0	0.045	65.0	0.026	85.0	0.007
6.0	0.094	26.0	0.058	46.0	0.017	66.0	0.015	86.0	0.005
7.0	0.125	27.0	0.003	47.0	0.025	67.0	0.019	87.0	0.003
8.0	0.077	28.0	0.058	48.0	0.043	68.0	0.029	88.0	0.001
9.0	0.088	29.0	0.033	49.0	0.025	69.0	0.034	89.0	0.000
						90.0	0.000	90.0	0.000

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