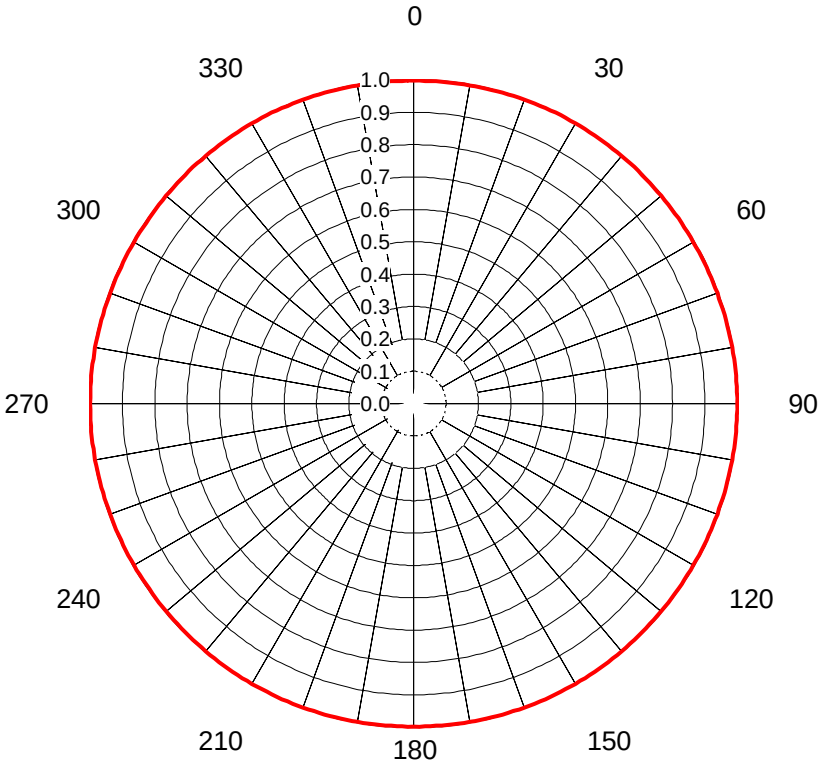
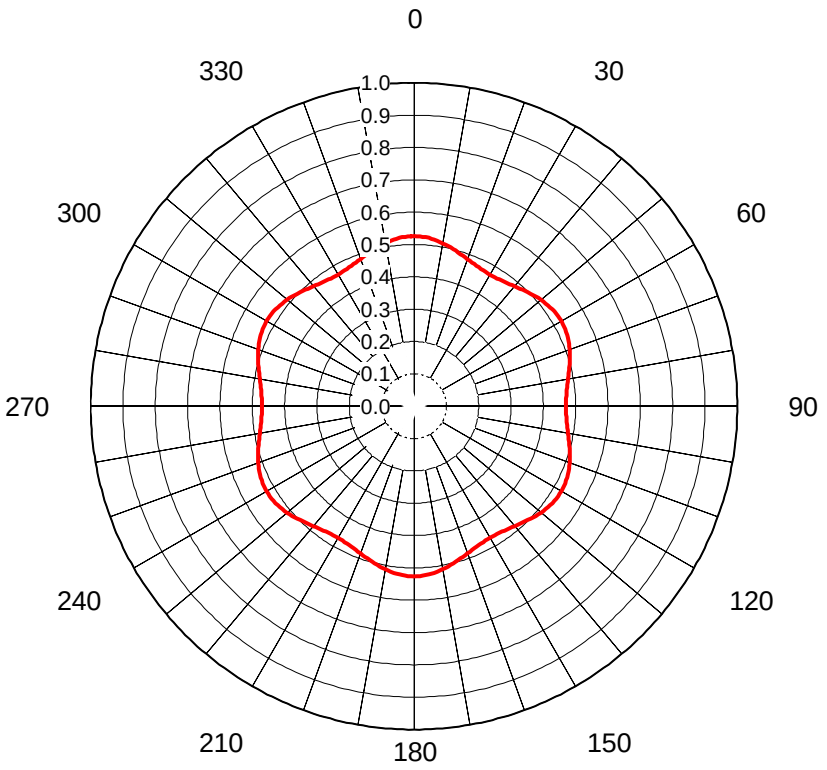


AZIMUTH PATTERN
Horizontal Polarization

Proposal No.	**C-71623-1**
Date	**5-Nov-20**
Call Letters	**KRCG**
Channel	**29**
Frequency	**563 MHz**
Antenna Type	**TFU-27ETT/VP-R O6**
Gain	**1 (0.01dB)**
	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	0.998	36	1.000	72	0.999	108	0.999	144	1.000	180	0.998	216	1.000	252	0.999	288	0.999	324	1.000
1	0.998	37	1.000	73	0.999	109	0.999	145	1.000	181	0.998	217	1.000	253	0.999	289	0.999	325	1.000
2	0.998	38	1.000	74	0.999	110	0.999	146	1.000	182	0.998	218	1.000	254	0.999	290	0.999	326	1.000
3	0.998	39	1.000	75	0.999	111	0.999	147	1.000	183	0.998	219	1.000	255	0.999	291	0.999	327	1.000
4	0.998	40	1.000	76	0.999	112	0.998	148	1.000	184	0.998	220	1.000	256	0.999	292	0.998	328	1.000
5	0.998	41	0.999	77	0.999	113	0.998	149	1.000	185	0.998	221	0.999	257	0.999	293	0.998	329	1.000
6	0.998	42	0.999	78	0.999	114	0.998	150	1.000	186	0.998	222	0.999	258	0.999	294	0.998	330	1.000
7	0.998	43	0.999	79	0.999	115	0.998	151	1.000	187	0.998	223	0.999	259	0.999	295	0.998	331	1.000
8	0.998	44	0.999	80	1.000	116	0.998	152	1.000	188	0.998	224	0.999	260	1.000	296	0.998	332	1.000
9	0.999	45	0.999	81	1.000	117	0.998	153	1.000	189	0.999	225	0.999	261	1.000	297	0.998	333	1.000
10	0.999	46	0.999	82	1.000	118	0.998	154	1.000	190	0.999	226	0.999	262	1.000	298	0.998	334	1.000
11	0.999	47	0.999	83	1.000	119	0.998	155	1.000	191	0.999	227	0.999	263	1.000	299	0.998	335	1.000
12	0.999	48	0.999	84	1.000	120	0.998	156	1.000	192	0.999	228	0.999	264	1.000	300	0.998	336	1.000
13	0.999	49	0.999	85	1.000	121	0.998	157	1.000	193	0.999	229	0.999	265	1.000	301	0.998	337	1.000
14	0.999	50	0.999	86	1.000	122	0.998	158	1.000	194	0.999	230	0.999	266	1.000	302	0.998	338	1.000
15	0.999	51	0.999	87	1.000	123	0.998	159	1.000	195	0.999	231	0.999	267	1.000	303	0.998	339	1.000
16	0.999	52	0.998	88	1.000	124	0.998	160	1.000	196	0.999	232	0.998	268	1.000	304	0.998	340	1.000
17	0.999	53	0.998	89	1.000	125	0.998	161	0.999	197	0.999	233	0.998	269	1.000	305	0.998	341	0.999
18	0.999	54	0.998	90	1.000	126	0.998	162	0.999	198	0.999	234	0.998	270	1.000	306	0.998	342	0.999
19	0.999	55	0.998	91	1.000	127	0.998	163	0.999	199	0.999	235	0.998	271	1.000	307	0.998	343	0.999
20	1.000	56	0.998	92	1.000	128	0.998	164	0.999	200	1.000	236	0.998	272	1.000	308	0.998	344	0.999
21	1.000	57	0.998	93	1.000	129	0.999	165	0.999	201	1.000	237	0.998	273	1.000	309	0.999	345	0.999
22	1.000	58	0.998	94	1.000	130	0.999	166	0.999	202	1.000	238	0.998	274	1.000	310	0.999	346	0.999
23	1.000	59	0.998	95	1.000	131	0.999	167	0.999	203	1.000	239	0.998	275	1.000	311	0.999	347	0.999
24	1.000	60	0.998	96	1.000	132	0.999	168	0.999	204	1.000	240	0.998	276	1.000	312	0.999	348	0.999
25	1.000	61	0.998	97	1.000	133	0.999	169	0.999	205	1.000	241	0.998	277	1.000	313	0.999	349	0.999
26	1.000	62	0.998	98	1.000	134	0.999	170	0.999	206	1.000	242	0.998	278	1.000	314	0.999	350	0.999
27	1.000	63	0.998	99	1.000	135	0.999	171	0.999	207	1.000	243	0.998	279	1.000	315	0.999	351	0.999
28	1.000	64	0.998	100	1.000	136	0.999	172	0.998	208	1.000	244	0.998	280	1.000	316	0.999	352	0.998
29	1.000	65	0.998	101	0.999	137	0.999	173	0.998	209	1.000	245	0.998	281	0.999	317	0.999	353	0.998
30	1.000	66	0.998	102	0.999	138	0.999	174	0.998	210	1.000	246	0.998	282	0.999	318	0.999	354	0.998
31	1.000	67	0.998	103	0.999	139	0.999	175	0.998	211	1.000	247	0.998	283	0.999	319	0.999	355	0.998
32	1.000	68	0.998	104	0.999	140	1.000	176	0.998	212	1.000	248	0.998	284	0.999	320	1.000	356	0.998
33	1.000	69	0.999	105	0.999	141	1.000	177	0.998	213	1.000	249	0.999	285	0.999	321	1.000	357	0.998
34	1.000	70	0.999	106	0.999	142	1.000	178	0.998	214	1.000	250	0.999	286	0.999	322	1.000	358	0.998
35	1.000	71	0.999	107	0.999	143	1.000	179	0.998	215	1.000	251	0.999	287	0.999	323	1.000	359	0.998

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AZIMUTH PATTERN
Vertical Polarization

Proposal No.	**C-71623-1**
Date	**5-Nov-20**
Call Letters	**KRCG**
Channel	**29**
Frequency	**563 MHz**
Antenna Type	**TFU-27ETT/VP-R O6**
Gain	**1.11 (0.47dB)**
	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	0.526	36	0.475	72	0.507	108	0.507	144	0.475	180	0.526	216	0.475	252	0.507	288	0.507	324	0.475
1	0.526	37	0.477	73	0.504	109	0.510	145	0.474	181	0.526	217	0.477	253	0.504	289	0.510	325	0.474
2	0.526	38	0.479	74	0.501	110	0.512	146	0.473	182	0.526	218	0.479	254	0.501	290	0.512	326	0.473
3	0.525	39	0.482	75	0.498	111	0.515	147	0.472	183	0.525	219	0.482	255	0.498	291	0.515	327	0.472
4	0.524	40	0.484	76	0.495	112	0.517	148	0.471	184	0.524	220	0.484	256	0.495	292	0.517	328	0.471
5	0.523	41	0.487	77	0.492	113	0.519	149	0.470	185	0.523	221	0.487	257	0.492	293	0.519	329	0.470
6	0.521	42	0.489	78	0.489	114	0.521	150	0.470	186	0.521	222	0.489	258	0.489	294	0.521	330	0.470
7	0.519	43	0.492	79	0.487	115	0.523	151	0.470	187	0.519	223	0.492	259	0.487	295	0.523	331	0.470
8	0.517	44	0.495	80	0.484	116	0.524	152	0.471	188	0.517	224	0.495	260	0.484	296	0.524	332	0.471
9	0.515	45	0.498	81	0.482	117	0.525	153	0.472	189	0.515	225	0.498	261	0.482	297	0.525	333	0.472
10	0.512	46	0.501	82	0.479	118	0.526	154	0.473	190	0.512	226	0.501	262	0.479	298	0.526	334	0.473
11	0.510	47	0.504	83	0.477	119	0.526	155	0.474	191	0.510	227	0.504	263	0.477	299	0.526	335	0.474
12	0.507	48	0.507	84	0.475	120	0.526	156	0.475	192	0.507	228	0.507	264	0.475	300	0.526	336	0.475
13	0.504	49	0.510	85	0.474	121	0.526	157	0.477	193	0.504	229	0.510	265	0.474	301	0.526	337	0.477
14	0.501	50	0.512	86	0.473	122	0.526	158	0.479	194	0.501	230	0.512	266	0.473	302	0.526	338	0.479
15	0.498	51	0.515	87	0.472	123	0.525	159	0.482	195	0.498	231	0.515	267	0.472	303	0.525	339	0.482
16	0.495	52	0.517	88	0.471	124	0.524	160	0.484	196	0.495	232	0.517	268	0.471	304	0.524	340	0.484
17	0.492	53	0.519	89	0.470	125	0.523	161	0.487	197	0.492	233	0.519	269	0.470	305	0.523	341	0.487
18	0.489	54	0.521	90	0.470	126	0.521	162	0.489	198	0.489	234	0.521	270	0.470	306	0.521	342	0.489
19	0.487	55	0.523	91	0.470	127	0.519	163	0.492	199	0.487	235	0.523	271	0.470	307	0.519	343	0.492
20	0.484	56	0.524	92	0.471	128	0.517	164	0.495	200	0.484	236	0.524	272	0.471	308	0.517	344	0.495
21	0.482	57	0.525	93	0.472	129	0.515	165	0.498	201	0.482	237	0.525	273	0.472	309	0.515	345	0.498
22	0.479	58	0.526	94	0.473	130	0.512	166	0.501	202	0.479	238	0.526	274	0.473	310	0.512	346	0.501
23	0.477	59	0.526	95	0.474	131	0.510	167	0.504	203	0.477	239	0.526	275	0.474	311	0.510	347	0.504
24	0.475	60	0.526	96	0.475	132	0.507	168	0.507	204	0.475	240	0.526	276	0.475	312	0.507	348	0.507
25	0.474	61	0.526	97	0.477	133	0.504	169	0.510	205	0.474	241	0.526	277	0.477	313	0.504	349	0.510
26	0.473	62	0.526	98	0.479	134	0.501	170	0.512	206	0.473	242	0.526	278	0.479	314	0.501	350	0.512
27	0.472	63	0.525	99	0.482	135	0.498	171	0.515	207	0.472	243	0.525	279	0.482	315	0.498	351	0.515
28	0.471	64	0.524	100	0.484	136	0.495	172	0.517	208	0.471	244	0.524	280	0.484	316	0.495	352	0.517
29	0.470	65	0.523	101	0.487	137	0.492	173	0.519	209	0.470	245	0.523	281	0.487	317	0.492	353	0.519
30	0.470	66	0.521	102	0.489	138	0.489	174	0.521	210	0.470	246	0.521	282	0.489	318	0.489	354	0.521
31	0.470	67	0.519	103	0.492	139	0.487	175	0.523	211	0.470	247	0.519	283	0.492	319	0.487	355	0.523
32	0.471	68	0.517	104	0.495	140	0.484	176	0.524	212	0.471	248	0.517	284	0.495	320	0.484	356	0.524
33	0.472	69	0.515	105	0.498	141	0.482	177	0.525	213	0.472	249	0.515	285	0.498	321	0.482	357	0.525
34	0.473	70	0.512	106	0.501	142	0.479	178	0.526	214	0.473	250	0.512	286	0.501	322	0.479	358	0.526
35	0.474	71	0.510	107	0.504	143	0.477	179	0.526	215	0.474	251	0.510	287	0.504	323	0.477	359	0.526

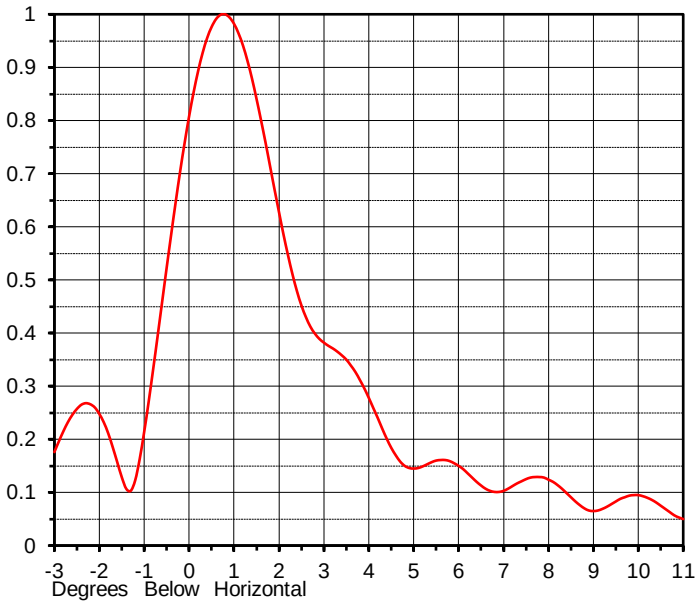
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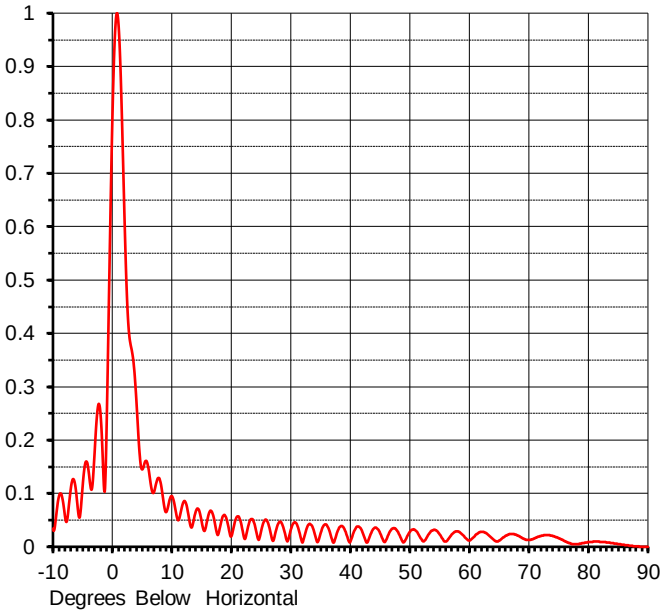
ELEVATION PATTERN

Proposal No.	**C-71623-1**
Date	**5-Nov-20**
Call Letters	**KRCG**
Channel	**29**
Frequency	**563 MHz**
Antenna Type	**TFU-27ETT/VP-R O6**

RMS Directivity at Main Lobe	**25.3 (14.04 dB)**	Beam Tilt	**0.75 deg**
RMS Directivity at Horizontal	**16.5 (12.17 dB)**	Pattern Number	**27E253075**

Calculated





Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.034	10.0	0.095	30.0	0.033	50.0	0.028	70.0	0.013
-9.0	0.094	11.0	0.050	31.0	0.042	51.0	0.030	71.0	0.016
-8.0	0.059	12.0	0.085	32.0	0.009	52.0	0.013	72.0	0.020
-7.0	0.109	13.0	0.045	33.0	0.042	53.0	0.021	73.0	0.022
-6.0	0.091	14.0	0.066	34.0	0.024	54.0	0.032	74.0	0.020
-5.0	0.115	15.0	0.047	35.0	0.026	55.0	0.023	75.0	0.016
-4.0	0.141	16.0	0.053	36.0	0.041	56.0	0.010	76.0	0.011
-3.0	0.176	17.0	0.056	37.0	0.010	57.0	0.023	77.0	0.006
-2.0	0.248	18.0	0.033	38.0	0.033	58.0	0.029	78.0	0.005
-1.0	0.214	19.0	0.057	39.0	0.033	59.0	0.021	79.0	0.007
0.0	0.808	20.0	0.020	40.0	0.010	60.0	0.012	80.0	0.009
1.0	0.982	21.0	0.057	41.0	0.037	61.0	0.022	81.0	0.010
2.0	0.628	22.0	0.023	42.0	0.028	62.0	0.028	82.0	0.009
3.0	0.382	23.0	0.046	43.0	0.012	63.0	0.024	83.0	0.008
4.0	0.278	24.0	0.037	44.0	0.035	64.0	0.014	84.0	0.007
5.0	0.145	25.0	0.030	45.0	0.025	65.0	0.012	85.0	0.005
6.0	0.150	26.0	0.048	46.0	0.013	66.0	0.020	86.0	0.004
7.0	0.103	27.0	0.011	47.0	0.034	67.0	0.024	87.0	0.002
8.0	0.124	28.0	0.046	48.0	0.028	68.0	0.022	88.0	0.001
9.0	0.065	29.0	0.025	49.0	0.009	69.0	0.016	89.0	0.000
								90.0	0.000

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