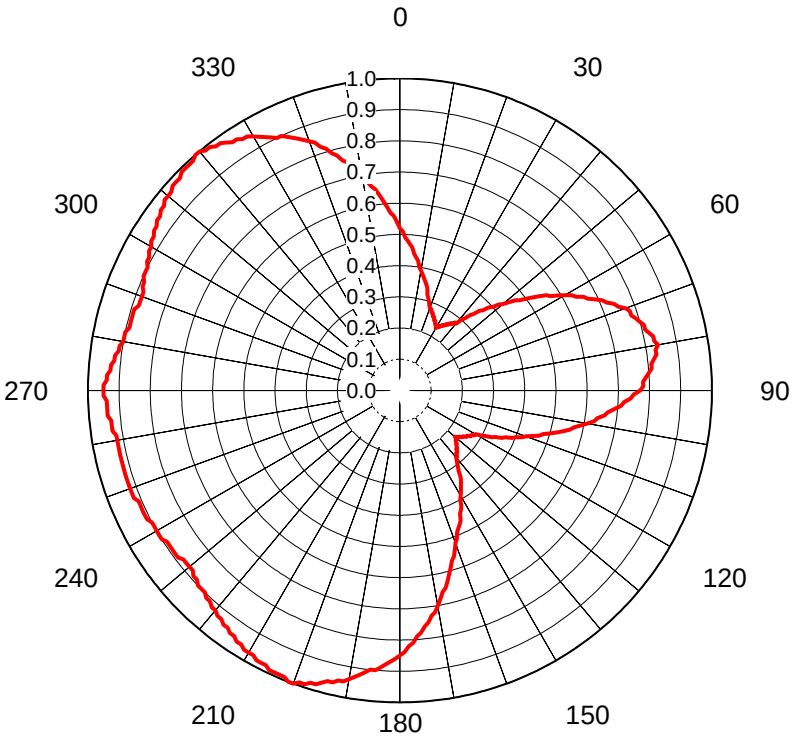


AZIMUTH PATTERN
Horizontal Polarization

Proposal No.	**C-70019-2**
Date	**7-Jun-18**
Call Letters	**WTGS**
Channel	**26**
Frequency	**545 MHz**
Antenna Type	**TFU-29ETT-R 4C190**
Gain	**1.82 (2.6dB)**
	Calculated

0

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.520	36	0.260	72	0.780	108	0.470	144	0.320	180	0.850	216	0.940	252	0.920	288	0.880	324	0.980
1	0.510	37	0.270	73	0.790	109	0.450	145	0.340	181	0.860	217	0.940	253	0.920	289	0.880	325	0.970
2	0.490	38	0.270	74	0.800	110	0.430	146	0.350	182	0.870	218	0.930	254	0.920	290	0.880	326	0.960
3	0.480	39	0.280	75	0.810	111	0.420	147	0.360	183	0.880	219	0.930	255	0.920	291	0.880	327	0.960
4	0.470	40	0.280	76	0.810	112	0.400	148	0.370	184	0.890	220	0.920	256	0.920	292	0.890	328	0.950
5	0.460	41	0.300	77	0.820	113	0.390	149	0.380	185	0.900	221	0.920	257	0.920	293	0.890	329	0.950
6	0.440	42	0.310	78	0.830	114	0.370	150	0.390	186	0.900	222	0.910	258	0.920	294	0.900	330	0.940
7	0.430	43	0.330	79	0.830	115	0.360	151	0.400	187	0.910	223	0.910	259	0.920	295	0.900	331	0.930
8	0.420	44	0.340	80	0.840	116	0.340	152	0.420	188	0.920	224	0.900	260	0.920	296	0.900	332	0.920
9	0.400	45	0.360	81	0.830	117	0.330	153	0.430	189	0.930	225	0.900	261	0.920	297	0.910	333	0.910
10	0.390	46	0.370	82	0.830	118	0.310	154	0.440	190	0.940	226	0.900	262	0.930	298	0.910	334	0.900
11	0.380	47	0.390	83	0.820	119	0.300	155	0.460	191	0.950	227	0.890	263	0.930	299	0.920	335	0.900
12	0.370	48	0.400	84	0.810	120	0.280	156	0.470	192	0.950	228	0.890	264	0.930	300	0.920	336	0.890
13	0.360	49	0.420	85	0.810	121	0.280	157	0.480	193	0.960	229	0.880	265	0.940	301	0.930	337	0.880
14	0.350	50	0.430	86	0.800	122	0.270	158	0.490	194	0.960	230	0.880	266	0.940	302	0.930	338	0.870
15	0.340	51	0.450	87	0.790	123	0.270	159	0.510	195	0.970	231	0.880	267	0.940	303	0.940	339	0.860
16	0.320	52	0.470	88	0.780	124	0.260	160	0.520	196	0.980	232	0.880	268	0.940	304	0.940	340	0.850
17	0.310	53	0.480	89	0.780	125	0.260	161	0.540	197	0.980	233	0.890	269	0.950	305	0.950	341	0.840
18	0.300	54	0.500	90	0.770	126	0.250	162	0.560	198	0.990	234	0.890	270	0.950	306	0.950	342	0.820
19	0.290	55	0.520	91	0.750	127	0.250	163	0.570	199	0.990	235	0.890	271	0.950	307	0.960	343	0.810
20	0.280	56	0.540	92	0.740	128	0.240	164	0.590	200	1.000	236	0.890	272	0.940	308	0.960	344	0.790
21	0.280	57	0.560	93	0.720	129	0.240	165	0.610	201	1.000	237	0.890	273	0.940	309	0.970	345	0.780
22	0.270	58	0.570	94	0.710	130	0.230	166	0.630	202	0.990	238	0.900	274	0.930	310	0.970	346	0.760
23	0.270	59	0.590	95	0.690	131	0.240	167	0.650	203	0.990	239	0.900	275	0.930	311	0.970	347	0.750
24	0.260	60	0.610	96	0.670	132	0.240	168	0.660	204	0.990	240	0.900	276	0.920	312	0.980	348	0.730
25	0.260	61	0.630	97	0.660	133	0.250	169	0.680	205	0.990	241	0.900	277	0.920	313	0.980	349	0.720
26	0.250	62	0.640	98	0.640	134	0.250	170	0.700	206	0.980	242	0.900	278	0.910	314	0.980	350	0.700
27	0.250	63	0.660	99	0.630	135	0.260	171	0.720	207	0.980	243	0.910	279	0.910	315	0.990	351	0.680
28	0.240	64	0.670	100	0.610	136	0.260	172	0.730	208	0.980	244	0.910	280	0.900	316	0.990	352	0.660
29	0.240	65	0.690	101	0.590	137	0.270	173	0.750	209	0.970	245	0.910	281	0.900	317	0.990	353	0.650
30	0.230	66	0.710	102	0.570	138	0.270	174	0.760	210	0.970	246	0.910	282	0.900	318	0.990	354	0.630
31	0.240	67	0.720	103	0.560	139	0.280	175	0.780	211	0.970	247	0.910	283	0.890	319	1.000	355	0.610
32	0.240	68	0.740	104	0.540	140	0.280	176	0.790	212	0.960	248	0.920	284	0.890	320	1.000	356	0.590
33	0.250	69	0.750	105	0.520	141	0.290	177	0.810	213	0.960	249	0.920	285	0.890	321	0.990	357	0.570
34	0.250	70	0.770	106	0.500	142	0.300	178	0.820	214	0.950	250	0.920	286	0.890	322	0.990	358	0.560
35	0.260	71	0.780	107	0.480	143	0.310	179	0.840	215	0.950	251	0.920	287	0.890	323	0.980	359	0.540

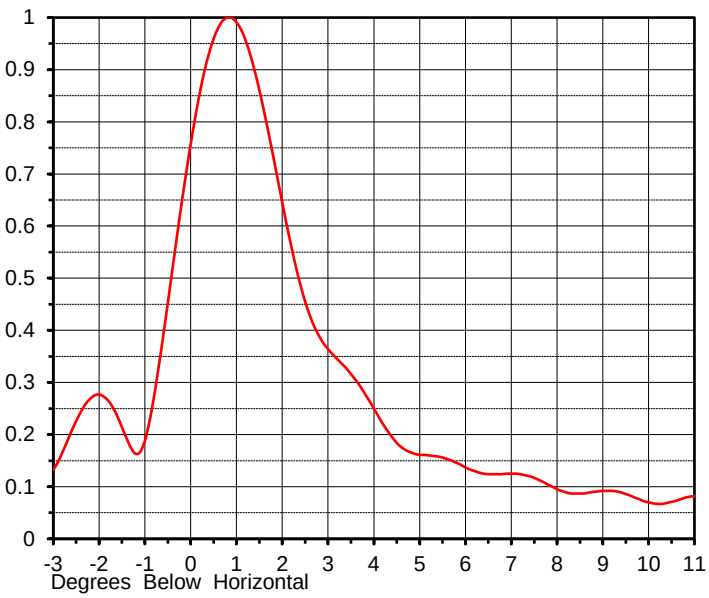
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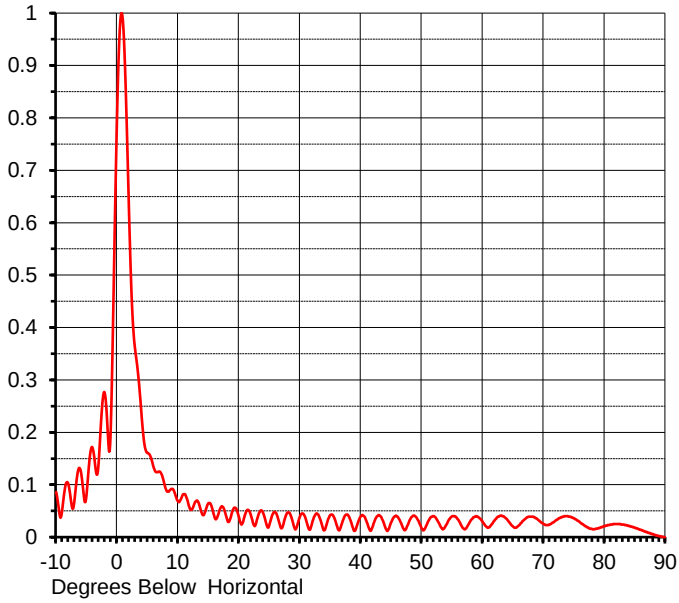
ELEVATION PATTERN

Proposal No.	**C-70019-2**
Date	**7-Jun-18**
Call Letters	**WTGS**
Channel	**26**
Frequency	**545 MHz**
Antenna Type	**TFU-29ETT-R 4C190**

RMS Directivity at Main Lobe	**25.0 (13.98 dB)**	Beam Tilt	**0.75 deg**
RMS Directivity at Horizontal	**16.4 (12.15 dB)**	Pattern Number	**29E250075**

Calculated





Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.086	10.0	0.068	30.0	0.039	50.0	0.016	70.0	0.025
-9.0	0.053	11.0	0.082	31.0	0.033	51.0	0.029	71.0	0.024
-8.0	0.101	12.0	0.053	32.0	0.027	52.0	0.040	72.0	0.032
-7.0	0.070	13.0	0.069	33.0	0.043	53.0	0.022	73.0	0.038
-6.0	0.128	14.0	0.043	34.0	0.013	54.0	0.023	74.0	0.040
-5.0	0.083	15.0	0.065	35.0	0.042	55.0	0.040	75.0	0.036
-4.0	0.169	16.0	0.038	36.0	0.024	56.0	0.033	76.0	0.028
-3.0	0.147	17.0	0.056	37.0	0.030	57.0	0.015	77.0	0.020
-2.0	0.273	18.0	0.036	38.0	0.040	58.0	0.031	78.0	0.015
-1.0	0.225	19.0	0.052	39.0	0.012	59.0	0.040	79.0	0.017
0.0	0.809	20.0	0.038	40.0	0.040	60.0	0.029	80.0	0.021
1.0	0.977	21.0	0.043	41.0	0.028	61.0	0.019	81.0	0.024
2.0	0.601	22.0	0.040	42.0	0.022	62.0	0.033	82.0	0.025
3.0	0.354	23.0	0.035	43.0	0.042	63.0	0.041	83.0	0.024
4.0	0.235	24.0	0.045	44.0	0.019	64.0	0.034	84.0	0.021
5.0	0.161	25.0	0.024	45.0	0.029	65.0	0.020	85.0	0.018
6.0	0.133	26.0	0.047	46.0	0.039	66.0	0.023	86.0	0.014
7.0	0.125	27.0	0.017	47.0	0.016	67.0	0.035	87.0	0.009
8.0	0.092	28.0	0.047	48.0	0.032	68.0	0.039	88.0	0.005
9.0	0.092	29.0	0.021	49.0	0.039	69.0	0.034	89.0	0.002
								90.0	0.000

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