AZIMUTH PATTERN
Horizontal Polarization
In Free Space

Proposal No.	**C-70624**
Date	**10-Apr-17**
Call Letters	**WITI**
Channel	**33**
Frequency	**587 MHz**
Antenna Type	**TFU-16WB-1-R C160**
Gain	**1.68 (2.25dB)**
	Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.876	36	0.575	72	0.466	108	0.466	144	0.577	180	0.875	216	0.992	252	0.818	288	0.818	324	0.998
1	0.871	37	0.560	73	0.480	109	0.452	145	0.592	181	0.879	217	0.991	253	0.814	289	0.823	325	0.999
2	0.866	38	0.545	74	0.493	110	0.438	146	0.606	182	0.884	218	0.990	254	0.809	290	0.828	326	1.000
3	0.861	39	0.530	75	0.505	111	0.425	147	0.620	183	0.889	219	0.988	255	0.805	291	0.833	327	1.000
4	0.856	40	0.514	76	0.518	112	0.411	148	0.634	184	0.893	220	0.986	256	0.802	292	0.838	328	1.000
5	0.851	41	0.499	77	0.529	113	0.398	149	0.647	185	0.898	221	0.983	257	0.798	293	0.844	329	0.999
6	0.846	42	0.483	78	0.540	114	0.385	150	0.659	186	0.903	222	0.980	258	0.795	294	0.850	330	0.998
7	0.841	43	0.468	79	0.551	115	0.373	151	0.672	187	0.907	223	0.977	259	0.792	295	0.856	331	0.997
8	0.835	44	0.452	80	0.560	116	0.362	152	0.683	188	0.912	224	0.974	260	0.789	296	0.862	332	0.995
9	0.830	45	0.437	81	0.569	117	0.352	153	0.695	189	0.917	225	0.970	261	0.787	297	0.868	333	0.993
10	0.825	46	0.422	82	0.577	118	0.343	154	0.705	190	0.922	226	0.966	262	0.784	298	0.874	334	0.991
11	0.819	47	0.407	83	0.584	119	0.335	155	0.716	191	0.926	227	0.961	263	0.782	299	0.881	335	0.989
12	0.813	48	0.394	84	0.590	120	0.329	156	0.726	192	0.931	228	0.957	264	0.781	300	0.887	336	0.986
13	0.807	49	0.381	85	0.596	121	0.324	157	0.735	193	0.936	229	0.952	265	0.779	301	0.894	337	0.983
14	0.801	50	0.368	86	0.600	122	0.322	158	0.744	194	0.940	230	0.946	266	0.778	302	0.900	338	0.979
15	0.795	51	0.357	87	0.604	123	0.321	159	0.753	195	0.945	231	0.941	267	0.777	303	0.907	339	0.976
16	0.788	52	0.348	88	0.606	124	0.322	160	0.761	196	0.949	232	0.935	268	0.777	304	0.913	340	0.972
17	0.781	53	0.339	89	0.608	125	0.326	161	0.769	197	0.953	233	0.930	269	0.776	305	0.919	341	0.968
18	0.774	54	0.333	90	0.608	126	0.331	162	0.777	198	0.958	234	0.924	270	0.776	306	0.926	342	0.964
19	0.766	55	0.328	91	0.608	127	0.337	163	0.784	199	0.962	235	0.918	271	0.776	307	0.932	343	0.959
20	0.758	56	0.325	92	0.606	128	0.346	164	0.791	200	0.966	236	0.911	272	0.777	308	0.938	344	0.955
21	0.750	57	0.323	93	0.604	129	0.356	165	0.797	201	0.969	237	0.905	273	0.777	309	0.944	345	0.950
22	0.741	58	0.324	94	0.600	130	0.367	166	0.803	202	0.973	238	0.899	274	0.778	310	0.949	346	0.945
23	0.732	59	0.327	95	0.596	131	0.379	167	0.809	203	0.976	239	0.893	275	0.779	311	0.955	347	0.941
24	0.723	60	0.331	96	0.590	132	0.393	168	0.815	204	0.979	240	0.886	276	0.781	312	0.960	348	0.936
25	0.713	61	0.337	97	0.584	133	0.407	169	0.821	205	0.982	241	0.880	277	0.782	313	0.965	349	0.931
26	0.703	62	0.345	98	0.577	134	0.421	170	0.826	206	0.984	242	0.874	278	0.784	314	0.970	350	0.926
27	0.692	63	0.354	99	0.569	135	0.436	171	0.831	207	0.987	243	0.868	279	0.786	315	0.974	351	0.921
28	0.681	64	0.364	100	0.560	136	0.452	172	0.836	208	0.989	244	0.861	280	0.789	316	0.978	352	0.916
29	0.669	65	0.375	101	0.550	137	0.468	173	0.841	209	0.990	245	0.855	281	0.792	317	0.982	353	0.911
30	0.657	66	0.387	102	0.540	138	0.484	174	0.846	210	0.992	246	0.850	282	0.795	318	0.985	354	0.906
31	0.644	67	0.399	103	0.529	139	0.499	175	0.851	211	0.993	247	0.844	283	0.798	319	0.988	355	0.901
32	0.631	68	0.412	104	0.517	140	0.515	176	0.856	212	0.993	248	0.838	284	0.801	320	0.991	356	0.896
33	0.618	69	0.426	105	0.505	141	0.531	177	0.861	213	0.994	249	0.833	285	0.805	321	0.994	357	0.891
34	0.604	70	0.439	106	0.492	142	0.547	178	0.865	214	0.994	250	0.828	286	0.809	322	0.996	358	0.886
35	0.590	71	0.453	107	0.479	143	0.562	179	0.870	215	0.993	251	0.823	287	0.813	323	0.997	359	0.881

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ELEVATION PATTERN

Proposal No.	**C-70624**
Date	**10-Apr-17**
Call Letters	**WITI**
Channel	**33**
Frequency	**587 MHz**
Antenna Type	**TFU-16WB-1-R C160**

RMS Directivity at Main Lobe   **14.4 (11.58 dB)**   Beam Tilt   **0.55 deg**

RMS Directivity at Horizontal   **12.9 (11.11 dB)**   Pattern Number   **16W144055**

Calculated
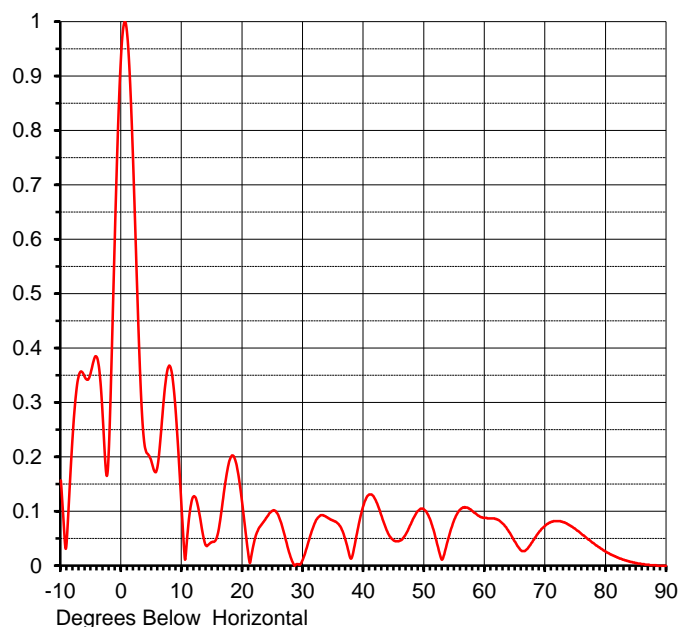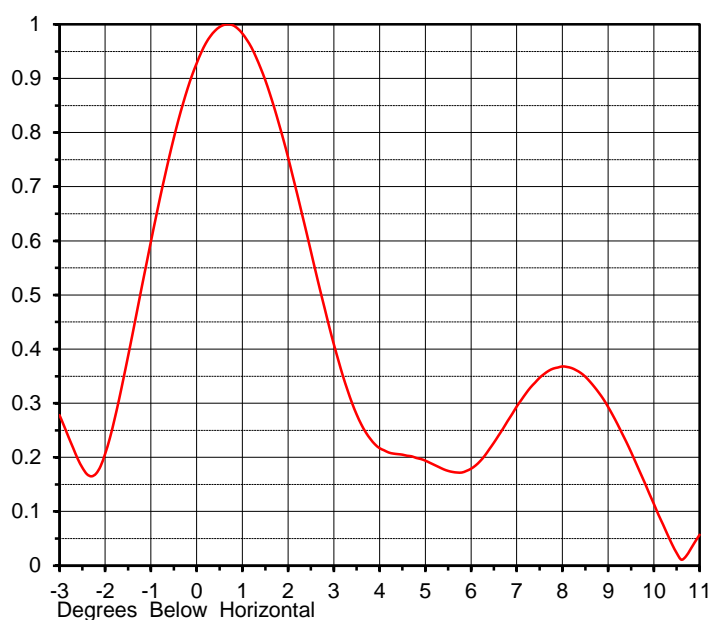
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.157	10.0	0.094	30.0	0.013	50.0	0.103	70.0	0.074
-9.0	0.050	11.0	0.069	31.0	0.048	51.0	0.084	71.0	0.081
-8.0	0.246	12.0	0.128	32.0	0.080	52.0	0.046	72.0	0.082
-7.0	0.351	13.0	0.088	33.0	0.093	53.0	0.012	73.0	0.080
-6.0	0.346	14.0	0.037	34.0	0.089	54.0	0.051	74.0	0.074
-5.0	0.358	15.0	0.044	35.0	0.083	55.0	0.086	75.0	0.067
-4.0	0.382	16.0	0.063	36.0	0.074	56.0	0.104	76.0	0.058
-3.0	0.258	17.0	0.141	37.0	0.047	57.0	0.107	77.0	0.049
-2.0	0.235	18.0	0.198	38.0	0.014	58.0	0.100	78.0	0.041
-1.0	0.640	19.0	0.186	39.0	0.066	59.0	0.092	79.0	0.033
0.0	0.948	20.0	0.110	40.0	0.112	60.0	0.088	80.0	0.026
1.0	0.971	21.0	0.017	41.0	0.131	61.0	0.087	81.0	0.020
2.0	0.720	22.0	0.048	42.0	0.120	62.0	0.085	82.0	0.015
3.0	0.379	23.0	0.074	43.0	0.090	63.0	0.077	83.0	0.011
4.0	0.213	24.0	0.089	44.0	0.060	64.0	0.062	84.0	0.007
5.0	0.190	25.0	0.101	45.0	0.046	65.0	0.044	85.0	0.005
6.0	0.185	26.0	0.090	46.0	0.046	66.0	0.028	86.0	0.003
7.0	0.306	27.0	0.054	47.0	0.059	67.0	0.031	87.0	0.002
8.0	0.367	28.0	0.014	48.0	0.082	68.0	0.047	88.0	0.001
9.0	0.278	29.0	0.003	49.0	0.101	69.0	0.063	89.0	0.000
								90.0	0.000

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