



Antenna Model:

TFU-29JTH/VP-R S260

Proposal Number: **C-70635**
Date: **11-Apr-17**
Customer: **Tegna Media**
Location: **Columbia, SC**

Electrical Specifications

Polarization: **Elliptical**
Azimuth Pattern: **Directional**
Antenna Input: **4-1/16"** **50 Ohm** **EIA/DCA**
VSWR: **Channel** **1.08 : 1**
Bandwidth: **6 MHz**
Rated Input Power: **33 kW** **(15.19 dBk)** **Maximum Average Power**

Mechanical Specifications

Mounting: **Top Mounted**
Environmental Protection: **Full Radome**
Height: **64.5 ft (19.7m)** less Lightning Protector **68.5 ft (20.9m)** with Lightning Protector
Weight: **10700 lb (4.9t)**
Effective Projected Area: **73.7 ft² (6.8m²)** **TIA/EIA-222-F** Basic Wind Speed: **75 m/h (120.7 km/h)**

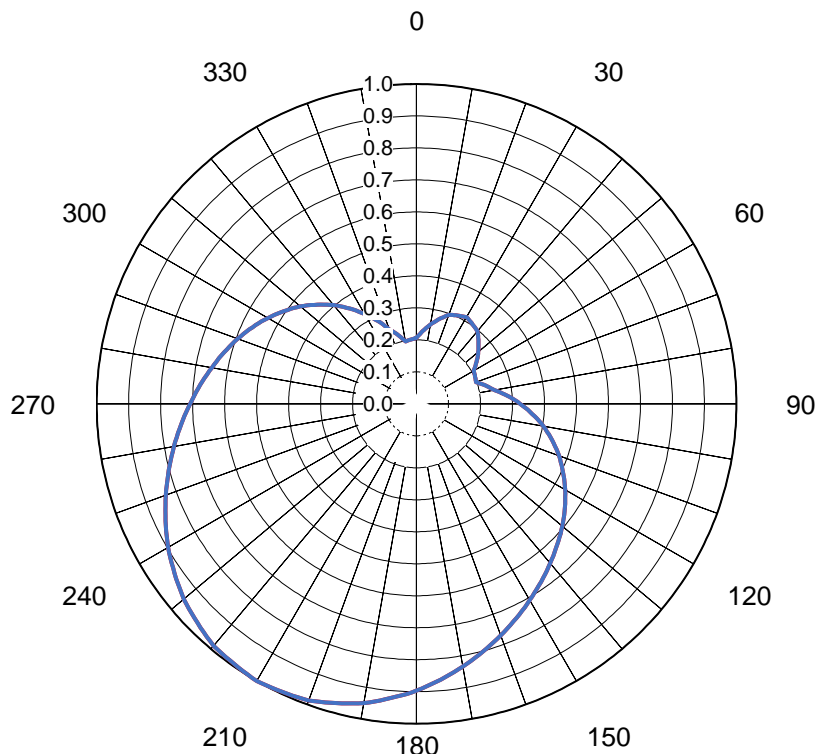
Channel Specifications

Call	CH	Freq	Hpol ERP	Vpol ERP	TPO	Peak Main Lobe Hpol Gain	Peak Main Lobe Vpol Gain	Peak at Horizontal Hpol Gain	Peak at Horizontal Vpol Gain
WLXT	15	479 MHz	951 kW (29.78 dBk)	476 kW (26.77 dBk)	26.9 kW (14.30 dBk)	50.38 (17.02dB)	25.19 (14.01dB)	31.84 (15.03dB)	15.92 (12.02dB)

AZIMUTH OVERLAY

Proposal No. **C-70635**
 Date **11-Apr-17**
 Call Letters **WLXT**
 Channel **15**
 Frequency **479 MHz**
 Antenna Type **TFU-29JTH/VP-R S260**

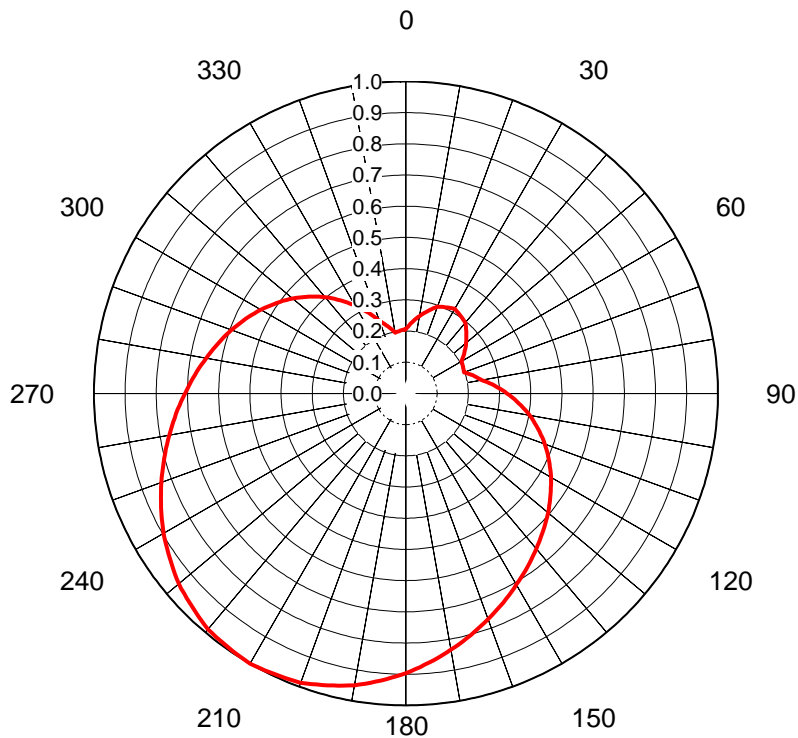
Blue FCC File



Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.206	36	0.303	72	0.208	108	0.460	144	0.673	180	0.897	216	0.992	252	0.821	288	0.606
1	0.211	37	0.301	73	0.213	109	0.467	145	0.679	181	0.902	217	0.991	253	0.815	289	0.600
2	0.215	38	0.299	74	0.218	110	0.474	146	0.685	182	0.908	218	0.990	254	0.808	290	0.595
3	0.220	39	0.298	75	0.222	111	0.480	147	0.691	183	0.913	219	0.988	255	0.802	291	0.589
4	0.224	40	0.296	76	0.227	112	0.487	148	0.696	184	0.918	220	0.987	256	0.796	292	0.583
5	0.229	41	0.292	77	0.232	113	0.493	149	0.702	185	0.924	221	0.983	257	0.789	293	0.578
6	0.234	42	0.287	78	0.237	114	0.499	150	0.708	186	0.929	222	0.980	258	0.783	294	0.572
7	0.238	43	0.283	79	0.242	115	0.506	151	0.714	187	0.934	223	0.976	259	0.776	295	0.566
8	0.243	44	0.278	80	0.247	116	0.512	152	0.720	188	0.939	224	0.972	260	0.770	296	0.560
9	0.247	45	0.274	81	0.255	117	0.518	153	0.727	189	0.945	225	0.969	261	0.764	297	0.554
10	0.252	46	0.270	82	0.262	118	0.524	154	0.733	190	0.950	226	0.965	262	0.758	298	0.549
11	0.256	47	0.265	83	0.270	119	0.531	155	0.739	191	0.954	227	0.961	263	0.751	299	0.543
12	0.261	48	0.261	84	0.278	120	0.537	156	0.745	192	0.957	228	0.957	264	0.745	300	0.537
13	0.265	49	0.256	85	0.285	121	0.543	157	0.751	193	0.961	229	0.954	265	0.739	301	0.531
14	0.270	50	0.252	86	0.293	122	0.549	158	0.758	194	0.965	230	0.950	266	0.733	302	0.524
15	0.274	51	0.247	87	0.301	123	0.554	159	0.764	195	0.969	231	0.945	267	0.727	303	0.518
16	0.278	52	0.243	88	0.309	124	0.560	160	0.770	196	0.972	232	0.939	268	0.720	304	0.512
17	0.283	53	0.238	89	0.316	125	0.566	161	0.776	197	0.976	233	0.934	269	0.714	305	0.506
18	0.287	54	0.234	90	0.324	126	0.572	162	0.783	198	0.980	234	0.929	270	0.708	306	0.499
19	0.292	55	0.229	91	0.332	127	0.578	163	0.789	199	0.983	235	0.924	271	0.702	307	0.493
20	0.296	56	0.224	92	0.340	128	0.583	164	0.796	200	0.987	236	0.918	272	0.696	308	0.487
21	0.298	57	0.220	93	0.348	129	0.589	165	0.802	201	0.988	237	0.913	273	0.691	309	0.480
22	0.299	58	0.215	94	0.356	130	0.595	166	0.808	202	0.990	238	0.908	274	0.685	310	0.474
23	0.301	59	0.211	95	0.363	131	0.600	167	0.815	203	0.991	239	0.902	275	0.679	311	0.467
24	0.303	60	0.206	96	0.371	132	0.606	168	0.821	204	0.992	240	0.897	276	0.673	312	0.460
25	0.305	61	0.205	97	0.379	133	0.612	169	0.828	205	0.993	241	0.891	277	0.667	313	0.453
26	0.306	62	0.204	98	0.387	134	0.617	170	0.834	206	0.995	242	0.884	278	0.662	314	0.446
27	0.308	63	0.204	99	0.395	135	0.623	171	0.840	207	0.996	243	0.878	279	0.656	315	0.438
28	0.310	64	0.203	100	0.403	136	0.628	172	0.847	208	0.997	244	0.872	280	0.650	316	0.431
29	0.311	65	0.202	101	0.410	137	0.633	173	0.853	209	0.999	245	0.865	281	0.645	317	0.424
30	0.313	66	0.201	102	0.417	138	0.639	174	0.859	210	1.000	246	0.859	282	0.639	318	0.417
31	0.311	67	0.200	103	0.424	139	0.645	175	0.865	211	0.999	247	0.853	283	0.633	319	0.410
32	0.310	68	0.200	104	0.431	140	0.650	176	0.872	212	0.997	248	0.847	284	0.628	320	0.403
33	0.308	69	0.199	105	0.438	141	0.656	177	0.878	213	0.996	249	0.840	285	0.623	321	0.395
34	0.306	70	0.198	106	0.446	142	0.662	178	0.884	214	0.995	250	0.834	286	0.617	322	0.387
35	0.305	71	0.203	107	0.453	143	0.667	179	0.891	215	0.993	251	0.828	287	0.612	323	0.379

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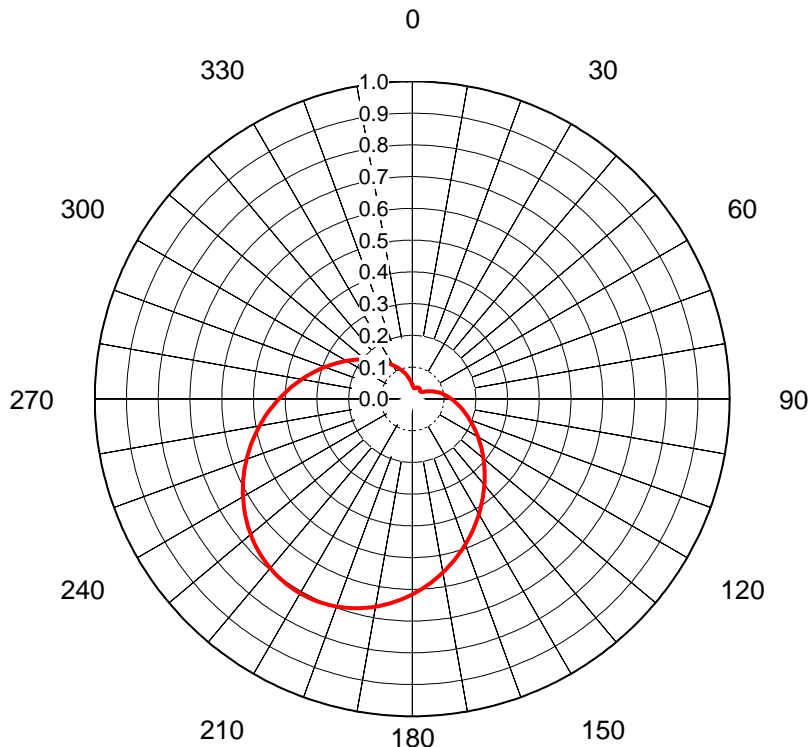
AZIMUTH PATTERN Horizontal Polarization



Proposal No. **C-70635**
 Date **11-Apr-17**
 Call Letters **WLXT**
 Channel **15**
 Frequency **479 MHz**
 Antenna Type **TFU-29JTH/VP-R S260**
 Gain **2.62 (4.19dB)**
 Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.206	36	0.303	72	0.208	108	0.460	144	0.673	180	0.897	216	0.992	252	0.821	288	0.606
1	0.211	37	0.301	73	0.213	109	0.467	145	0.679	181	0.902	217	0.991	253	0.815	289	0.600
2	0.215	38	0.299	74	0.218	110	0.474	146	0.685	182	0.908	218	0.990	254	0.808	290	0.595
3	0.220	39	0.298	75	0.222	111	0.480	147	0.691	183	0.913	219	0.988	255	0.802	291	0.589
4	0.224	40	0.296	76	0.227	112	0.487	148	0.696	184	0.918	220	0.987	256	0.796	292	0.583
5	0.229	41	0.292	77	0.232	113	0.493	149	0.702	185	0.924	221	0.983	257	0.789	293	0.578
6	0.234	42	0.287	78	0.237	114	0.499	150	0.708	186	0.929	222	0.980	258	0.783	294	0.572
7	0.238	43	0.283	79	0.242	115	0.506	151	0.714	187	0.934	223	0.976	259	0.776	295	0.566
8	0.243	44	0.278	80	0.247	116	0.512	152	0.720	188	0.939	224	0.972	260	0.770	296	0.560
9	0.247	45	0.274	81	0.255	117	0.518	153	0.727	189	0.945	225	0.969	261	0.764	297	0.554
10	0.252	46	0.270	82	0.262	118	0.524	154	0.733	190	0.950	226	0.965	262	0.758	298	0.549
11	0.256	47	0.265	83	0.270	119	0.531	155	0.739	191	0.954	227	0.961	263	0.751	299	0.543
12	0.261	48	0.261	84	0.278	120	0.537	156	0.745	192	0.957	228	0.957	264	0.745	300	0.537
13	0.265	49	0.256	85	0.285	121	0.543	157	0.751	193	0.961	229	0.954	265	0.739	301	0.531
14	0.270	50	0.252	86	0.293	122	0.549	158	0.758	194	0.965	230	0.950	266	0.733	302	0.524
15	0.274	51	0.247	87	0.301	123	0.554	159	0.764	195	0.969	231	0.945	267	0.727	303	0.518
16	0.278	52	0.243	88	0.309	124	0.560	160	0.770	196	0.972	232	0.939	268	0.720	304	0.512
17	0.283	53	0.238	89	0.316	125	0.566	161	0.776	197	0.976	233	0.934	269	0.714	305	0.506
18	0.287	54	0.234	90	0.324	126	0.572	162	0.783	198	0.980	234	0.929	270	0.708	306	0.499
19	0.292	55	0.229	91	0.332	127	0.578	163	0.789	199	0.983	235	0.924	271	0.702	307	0.493
20	0.296	56	0.224	92	0.340	128	0.583	164	0.796	200	0.987	236	0.918	272	0.696	308	0.487
21	0.298	57	0.220	93	0.348	129	0.589	165	0.802	201	0.988	237	0.913	273	0.691	309	0.480
22	0.299	58	0.215	94	0.356	130	0.595	166	0.808	202	0.990	238	0.908	274	0.685	310	0.474
23	0.301	59	0.211	95	0.363	131	0.600	167	0.815	203	0.991	239	0.902	275	0.679	311	0.467
24	0.303	60	0.206	96	0.371	132	0.606	168	0.821	204	0.992	240	0.897	276	0.673	312	0.460
25	0.305	61	0.205	97	0.379	133	0.612	169	0.828	205	0.993	241	0.891	277	0.667	313	0.453
26	0.306	62	0.204	98	0.387	134	0.617	170	0.834	206	0.995	242	0.884	278	0.662	314	0.446
27	0.308	63	0.204	99	0.395	135	0.623	171	0.840	207	0.996	243	0.878	279	0.656	315	0.438
28	0.310	64	0.203	100	0.403	136	0.628	172	0.847	208	0.997	244	0.872	280	0.650	316	0.431
29	0.311	65	0.202	101	0.410	137	0.633	173	0.853	209	0.999	245	0.865	281	0.645	317	0.424
30	0.313	66	0.201	102	0.417	138	0.639	174	0.859	210	1.000	246	0.859	282	0.639	318	0.417
31	0.311	67	0.200	103	0.424	139	0.645	175	0.865	211	0.999	247	0.853	283	0.633	319	0.410
32	0.310	68	0.200	104	0.431	140	0.650	176	0.872	212	0.997	248	0.847	284	0.628	320	0.403
33	0.308	69	0.199	105	0.438	141	0.656	177	0.878	213	0.996	249	0.840	285	0.623	321	0.395
34	0.306	70	0.198	106	0.446	142	0.662	178	0.884	214	0.995	250	0.834	286	0.617	322	0.387
35	0.305	71	0.203	107	0.453	143	0.667	179	0.891	215	0.993	251	0.828	287	0.612	323	0.379

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AZIMUTH PATTERN Vertical Polarization

Proposal No. **C-70635**
 Date **11-Apr-17**
 Call Letters **WLXT**
 Channel **15**
 Frequency **479 MHz**
 Antenna Type **TFU-29JTH/VP-R S260**
 Gain **3.41 (5.32dB)**
 Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.046	36	0.039	72	0.074	108	0.185	144	0.379	180	0.616	216	0.703	252	0.542	288	0.305
1	0.044	37	0.039	73	0.077	109	0.189	145	0.386	181	0.621	217	0.702	253	0.535	289	0.299
2	0.042	38	0.038	74	0.079	110	0.193	146	0.393	182	0.627	218	0.700	254	0.529	290	0.293
3	0.040	39	0.038	75	0.082	111	0.197	147	0.399	183	0.632	219	0.698	255	0.522	291	0.287
4	0.039	40	0.037	76	0.084	112	0.201	148	0.406	184	0.637	220	0.696	256	0.515	292	0.282
5	0.038	41	0.037	77	0.087	113	0.206	149	0.413	185	0.642	221	0.694	257	0.509	293	0.276
6	0.037	42	0.036	78	0.090	114	0.210	150	0.420	186	0.647	222	0.691	258	0.502	294	0.270
7	0.036	43	0.036	79	0.092	115	0.215	151	0.426	187	0.651	223	0.689	259	0.495	295	0.265
8	0.035	44	0.035	80	0.095	116	0.219	152	0.433	188	0.656	224	0.686	260	0.488	296	0.260
9	0.035	45	0.035	81	0.098	117	0.224	153	0.440	189	0.660	225	0.683	261	0.481	297	0.254
10	0.034	46	0.035	82	0.101	118	0.229	154	0.447	190	0.665	226	0.679	262	0.474	298	0.249
11	0.034	47	0.034	83	0.103	119	0.234	155	0.454	191	0.669	227	0.676	263	0.468	299	0.244
12	0.034	48	0.034	84	0.106	120	0.239	156	0.461	192	0.672	228	0.672	264	0.461	300	0.239
13	0.034	49	0.034	85	0.109	121	0.244	157	0.468	193	0.676	229	0.668	265	0.454	301	0.234
14	0.035	50	0.034	86	0.112	122	0.249	158	0.474	194	0.679	230	0.664	266	0.447	302	0.229
15	0.035	51	0.035	87	0.114	123	0.254	159	0.481	195	0.683	231	0.660	267	0.440	303	0.224
16	0.035	52	0.035	88	0.117	124	0.259	160	0.488	196	0.686	232	0.656	268	0.433	304	0.220
17	0.036	53	0.036	89	0.120	125	0.265	161	0.495	197	0.689	233	0.651	269	0.426	305	0.215
18	0.036	54	0.037	90	0.123	126	0.270	162	0.502	198	0.691	234	0.647	270	0.420	306	0.210
19	0.037	55	0.038	91	0.126	127	0.276	163	0.509	199	0.694	235	0.642	271	0.413	307	0.206
20	0.037	56	0.039	92	0.129	128	0.281	164	0.515	200	0.696	236	0.637	272	0.406	308	0.201
21	0.038	57	0.041	93	0.132	129	0.287	165	0.522	201	0.698	237	0.632	273	0.399	309	0.197
22	0.038	58	0.042	94	0.135	130	0.293	166	0.529	202	0.700	238	0.627	274	0.393	310	0.193
23	0.039	59	0.044	95	0.138	131	0.298	167	0.536	203	0.702	239	0.621	275	0.386	311	0.189
24	0.039	60	0.046	96	0.141	132	0.304	168	0.542	204	0.703	240	0.616	276	0.380	312	0.185
25	0.040	61	0.048	97	0.145	133	0.310	169	0.549	205	0.704	241	0.610	277	0.373	313	0.181
26	0.040	62	0.050	98	0.148	134	0.316	170	0.555	206	0.705	242	0.604	278	0.367	314	0.177
27	0.040	63	0.052	99	0.151	135	0.322	171	0.562	207	0.706	243	0.599	279	0.360	315	0.173
28	0.040	64	0.054	100	0.155	136	0.328	172	0.568	208	0.707	244	0.593	280	0.354	316	0.169
29	0.040	65	0.056	101	0.158	137	0.335	173	0.574	209	0.707	245	0.587	281	0.347	317	0.165
30	0.041	66	0.059	102	0.162	138	0.341	174	0.581	210	0.707	246	0.580	282	0.341	318	0.162
31	0.040	67	0.061	103	0.165	139	0.347	175	0.587	211	0.707	247	0.574	283	0.335	319	0.158
32	0.040	68	0.064	104	0.169	140	0.353	176	0.593	212	0.707	248	0.568	284	0.329	320	0.155
33	0.040	69	0.066	105	0.173	141	0.360	177	0.599	213	0.706	249	0.562	285	0.323	321	0.151
34	0.040	70	0.069	106	0.177	142	0.366	178	0.605	214	0.705	250	0.555	286	0.317	322	0.148
35	0.040	71	0.071	107	0.181	143	0.373	179	0.610	215	0.704	251	0.549	287	0.311	323	0.145

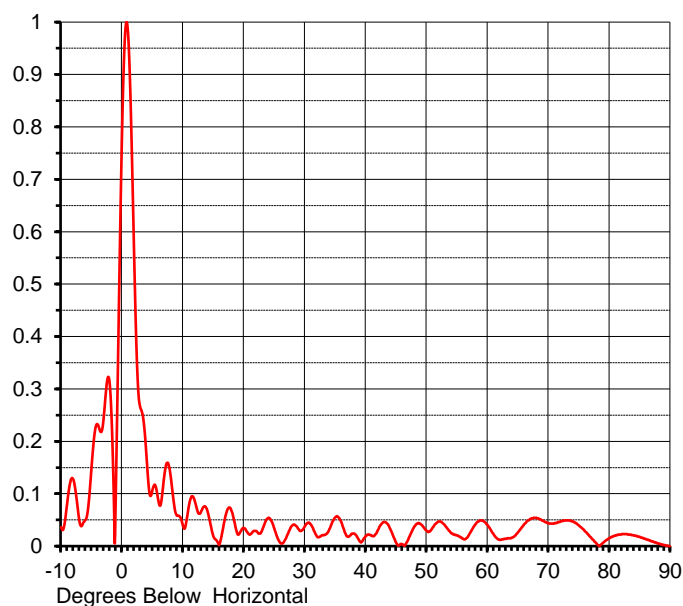
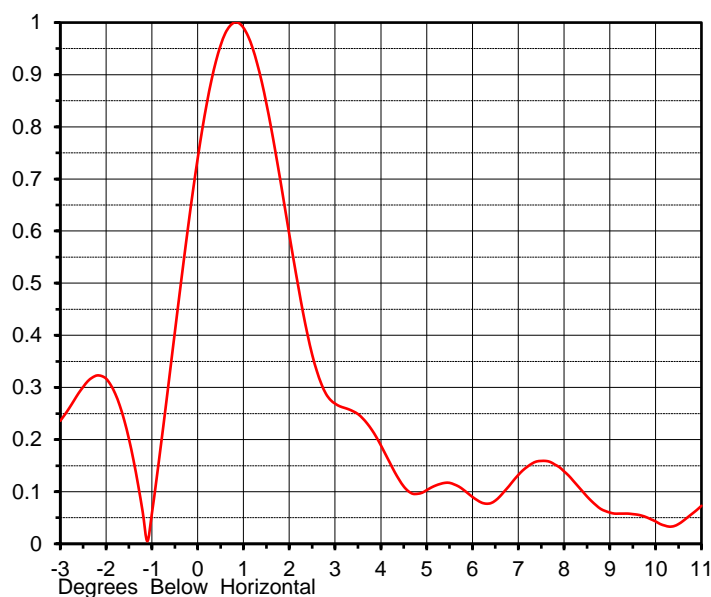
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ELEVATION PATTERN

Proposal No. **C-70635**
 Date **11-Apr-17**
 Call Letters **WLXT**
 Channel **15**
 Frequency **479 MHz**
 Antenna Type **TFU-29JTH/VP-R S260**

RMS Directivity at Main Lobe **26.6 (14.25 dB)**
 RMS Directivity at Horizontal **16.8 (12.25 dB)**
Calculated

Beam Tilt **0.75 deg**
 Pattern Number **29J266075**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.036	10.0	0.038	30.0	0.038	50.0	0.029	70.0	0.044
-9.0	0.083	11.0	0.079	31.0	0.041	51.0	0.036	71.0	0.044
-8.0	0.127	12.0	0.083	32.0	0.018	52.0	0.047	72.0	0.047
-7.0	0.047	13.0	0.067	33.0	0.021	53.0	0.039	73.0	0.049
-6.0	0.050	14.0	0.067	34.0	0.032	54.0	0.025	74.0	0.047
-5.0	0.153	15.0	0.018	35.0	0.055	55.0	0.020	75.0	0.039
-4.0	0.232	16.0	0.004	36.0	0.045	56.0	0.014	76.0	0.028
-3.0	0.248	17.0	0.059	37.0	0.018	57.0	0.023	77.0	0.016
-2.0	0.305	18.0	0.066	38.0	0.024	58.0	0.042	78.0	0.003
-1.0	0.123	19.0	0.022	39.0	0.009	59.0	0.049	79.0	0.007
0.0	0.795	20.0	0.034	40.0	0.019	60.0	0.040	80.0	0.015
1.0	0.974	21.0	0.022	41.0	0.020	61.0	0.022	81.0	0.020
2.0	0.542	22.0	0.029	42.0	0.031	62.0	0.012	82.0	0.023
3.0	0.264	23.0	0.031	43.0	0.046	63.0	0.014	83.0	0.022
4.0	0.172	24.0	0.054	44.0	0.033	64.0	0.016	84.0	0.020
5.0	0.108	25.0	0.033	45.0	0.006	65.0	0.027	85.0	0.017
6.0	0.084	26.0	0.006	46.0	0.003	66.0	0.042	86.0	0.013
7.0	0.141	27.0	0.018	47.0	0.014	67.0	0.052	87.0	0.009
8.0	0.131	28.0	0.040	48.0	0.038	68.0	0.054	88.0	0.005
9.0	0.058	29.0	0.032	49.0	0.042	69.0	0.049	89.0	0.002
								90.0	0.000

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***FutureFill** refers to broadband panels or limited bandwidth slotted coaxial antennas that can be modified in the field to provide the flexibility to customize the null structure at a future date.*

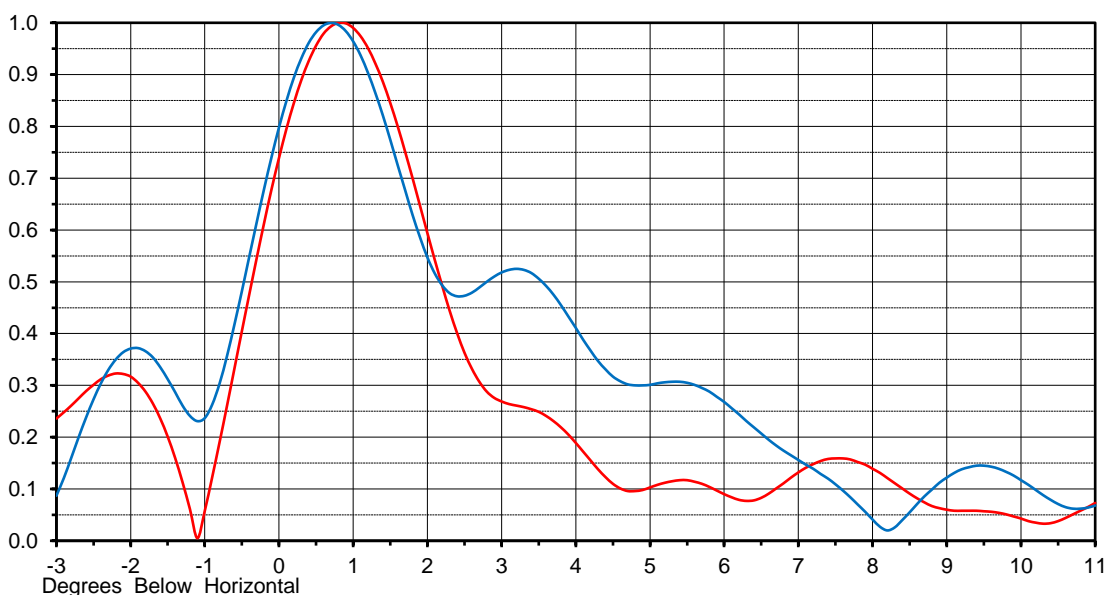
FutureFill OVERLAY

Proposal No. **C-70635**
 Date **11-Apr-17**
 Call Letters **WLXT**
 Channel **15**
 Frequency **479 MHz**
 Antenna Type **TFU-29JTH/VP-R S260**

RMS Directivity 26.6 **(14.25dB)**
 RMS Directivity 17.0 **(12.30dB)**
 Calculated

Beam Tilt 0.75
 Beam Tilt 0.75

Pattern No. 29J266075 **Red**
 Pattern No. 29J266075_FF **Blue**



Tabulations for 29J266075_FF

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.056	10.0	0.117	30.0	0.064	50.0	0.046	70.0	0.035
-9.0	0.160	11.0	0.068	31.0	0.022	51.0	0.009	71.0	0.013
-8.0	0.265	12.0	0.102	32.0	0.038	52.0	0.025	72.0	0.027
-7.0	0.214	13.0	0.156	33.0	0.043	53.0	0.016	73.0	0.043
-6.0	0.188	14.0	0.169	34.0	0.063	54.0	0.007	74.0	0.050
-5.0	0.338	15.0	0.119	35.0	0.127	55.0	0.022	75.0	0.049
-4.0	0.343	16.0	0.108	36.0	0.135	56.0	0.025	76.0	0.042
-3.0	0.087	17.0	0.093	37.0	0.090	57.0	0.047	77.0	0.033
-2.0	0.371	18.0	0.055	38.0	0.057	58.0	0.078	78.0	0.024
-1.0	0.237	19.0	0.114	39.0	0.076	59.0	0.096	79.0	0.019
0.0	0.798	20.0	0.162	40.0	0.086	60.0	0.094	80.0	0.020
1.0	0.964	21.0	0.139	41.0	0.064	61.0	0.079	81.0	0.022
2.0	0.547	22.0	0.139	42.0	0.075	62.0	0.063	82.0	0.023
3.0	0.518	23.0	0.135	43.0	0.109	63.0	0.055	83.0	0.023
4.0	0.411	24.0	0.095	44.0	0.105	64.0	0.060	84.0	0.020
5.0	0.301	25.0	0.056	45.0	0.074	65.0	0.075	85.0	0.017
6.0	0.268	26.0	0.071	46.0	0.056	66.0	0.090	86.0	0.013
7.0	0.156	27.0	0.052	47.0	0.071	67.0	0.095	87.0	0.009
8.0	0.041	28.0	0.075	48.0	0.090	68.0	0.086	88.0	0.005
9.0	0.122	29.0	0.091	49.0	0.084	69.0	0.064	89.0	0.002
								90.0	0.000

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MECHANICAL SPECIFICATIONS

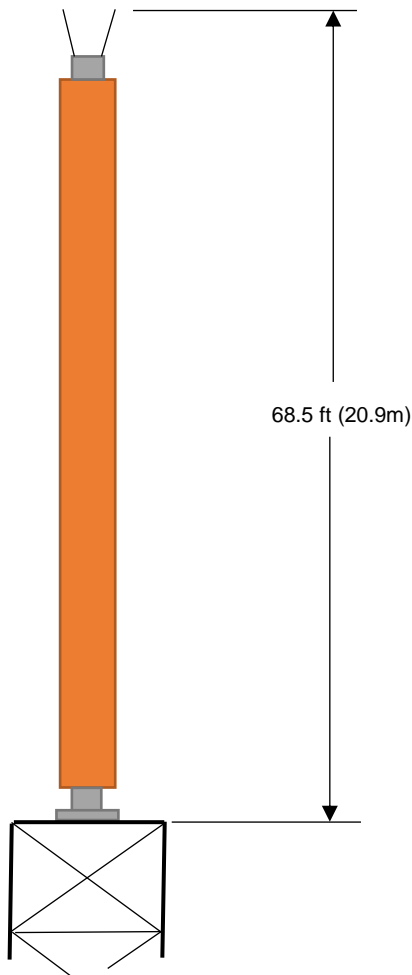
Proposal No. **C-70635**
 Date **11-Apr-17**
 Call Letters **WLXT**
 Channel **15**
 Frequency **479 MHz**
 Antenna Type **TFU-29JTH/VP-R S260**

Preliminary Specifications

Top Mounted

Without ice TIA/EIA-222-F

Height AGL 1569 ft (478.2 m)
 Basic Wind Speed 75 m/h (120.7 km/h)



Mechanical Specifications

Height with Lightning Protector	H4	68.5 ft (20.9m)
Height less Lightning Protector	H2	64.5 ft (19.7m)
Height of Center of Radiation	H3	32.25 ft (9.8m)
Force Coeff. x Projected Area	CaAc	73.7 ft² (6.8m²)
Moment Arm	D1	34 ft (10.4m)

Weight	W	10700 lb (4.9t)
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Antenna designed in accordance with AISC specifications for design of structural steel as prescribed by TIA/EIA-222-F

Prepared by: CAB

Date: 11-Apr-17

ME:

RS

EE:

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Summary

Proposal No.	C-70635
Date	11-Apr-17
Call Letters	WLXT
Channel	15
Frequency	479 MHz
Antenna Type	TFU-29JTH/VP-R S2

Antenna

	Hpol		Vpol	
ERP:	951 kW	(29.78 dBk)	476 kW	(26.77 dBk)
Peak Gain*	50.38	(17.02 dB)	25.19	(14.01 dB)

Antenna Input Power	18.9 kW	(12.76 dBk)
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Transmission Line

Type:	Rigid	Attenuation:	(1.54 dB)	
Size:	7-3/16"	Efficiency:	70.1%	
Impedance:	75 Ohm			
Length:	1700 ft	518.2 m		

Transmitter Output

26.9 kW	(14.30 dBk)
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Transmitter filter losses not included

* Directivity and Gain are with respect to half wave dipole. The gain includes feed system losses

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