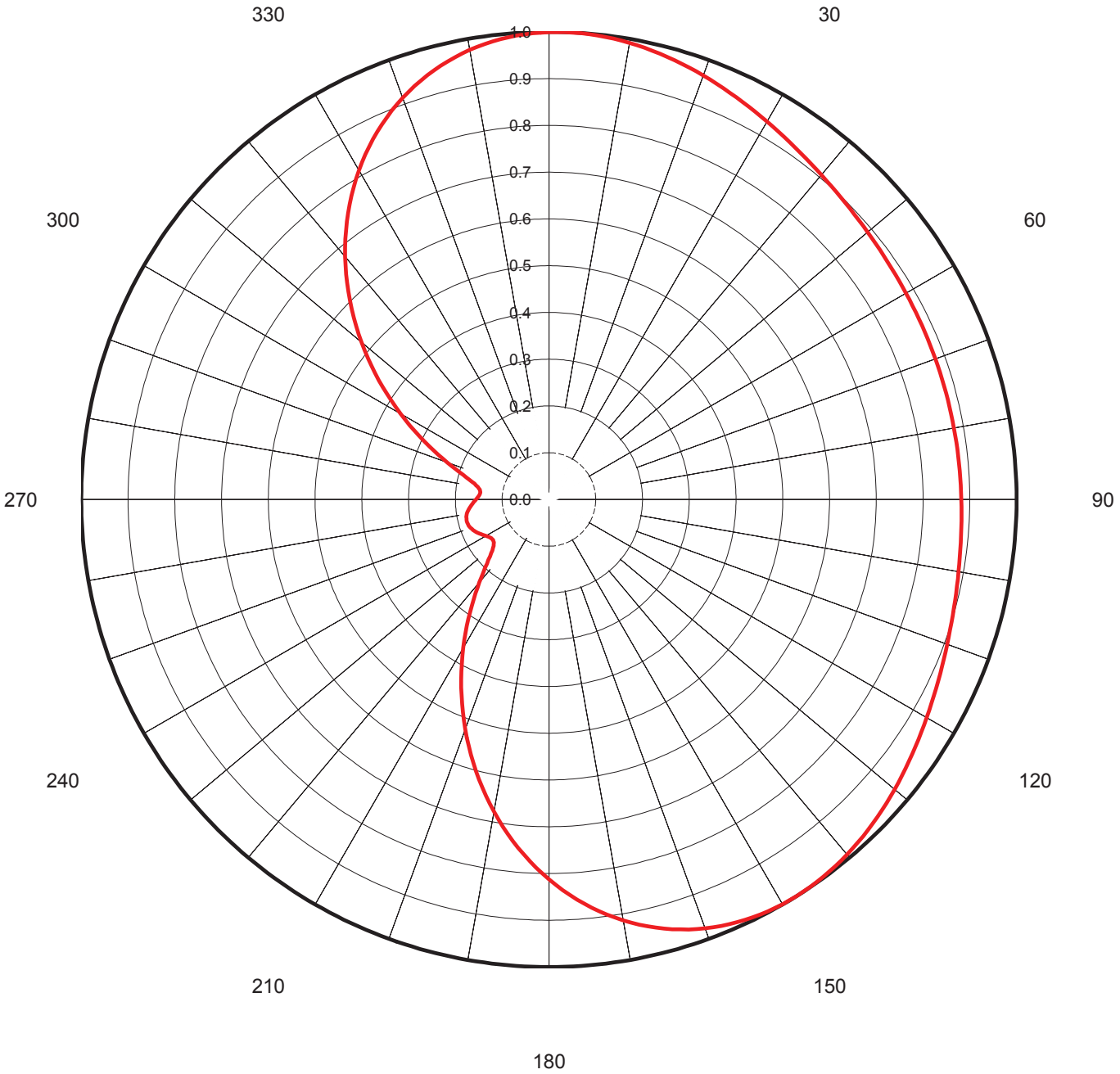
Dielectric

Proposal Number	**C-06258-2**	Revision:	**2**
Date	**19-Jan-16**		
Call Letters	**WFLI-TV**	Channel	**42**
Location	**Cleveland, TN**		
Customer	**WFLI-TV Licensee**		
Antenna Type	**TFU-17JSC/VP-R C170**		

AZIMUTH PATTERN

Gain	**1.70**	**(2.30 dB)**	0	Frequency	**641.00 MHz**
Calculated / Measured	**Calculated**			Drawing #	**TFU-C170-H-D42**



Dielectric

Proposal Number	**C-06258-2**	Revision:	**2**
Date	**19-Jan-16**		
Call Letters	**WFLI-TV**	Channel	**42**
Location	**Cleveland, TN**		
Customer	**WFLI-TV Licensee**		
Antenna Type	**TFU-17JSC/VP-R C170**		

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TFU-C170-H-D42**

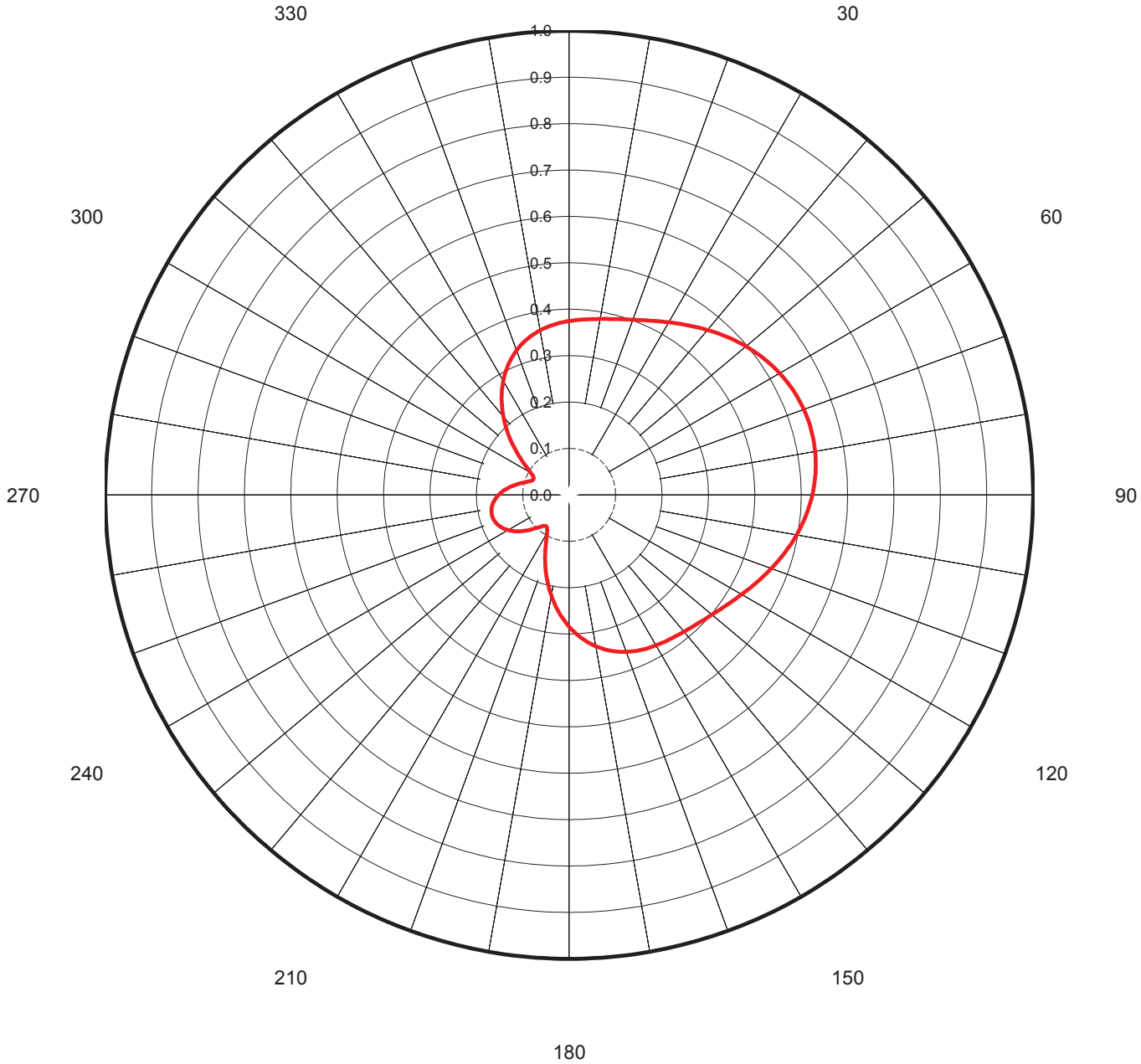
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.999	45	0.897	90	0.882	135	0.980	180	0.812	225	0.183	270	0.156	315	0.602
1	1.000	46	0.895	91	0.882	136	0.982	181	0.800	226	0.175	271	0.154	316	0.617
2	1.000	47	0.893	92	0.883	137	0.985	182	0.788	227	0.169	272	0.151	317	0.633
3	1.000	48	0.892	93	0.883	138	0.987	183	0.775	228	0.163	273	0.150	318	0.648
4	0.999	49	0.891	94	0.884	139	0.989	184	0.762	229	0.159	274	0.148	319	0.663
5	0.999	50	0.889	95	0.885	140	0.992	185	0.748	230	0.154	275	0.148	320	0.678
6	0.998	51	0.888	96	0.886	141	0.993	186	0.735	231	0.152	276	0.147	321	0.692
7	0.996	52	0.887	97	0.886	142	0.995	187	0.721	232	0.149	277	0.148	322	0.707
8	0.995	53	0.886	98	0.887	143	0.996	188	0.707	233	0.148	278	0.149	323	0.721
9	0.993	54	0.886	99	0.888	144	0.998	189	0.692	234	0.147	279	0.152	324	0.735
10	0.992	55	0.885	100	0.889	145	0.999	190	0.678	235	0.148	280	0.154	325	0.748
11	0.989	56	0.884	101	0.891	146	0.999	191	0.663	236	0.148	281	0.159	326	0.762
12	0.987	57	0.883	102	0.892	147	1.000	192	0.648	237	0.150	282	0.163	327	0.775
13	0.985	58	0.883	103	0.893	148	1.000	193	0.633	238	0.151	283	0.169	328	0.788
14	0.982	59	0.882	104	0.895	149	1.000	194	0.617	239	0.154	284	0.175	329	0.800
15	0.980	60	0.882	105	0.897	150	0.999	195	0.602	240	0.156	285	0.183	330	0.812
16	0.977	61	0.881	106	0.898	151	0.999	196	0.586	241	0.158	286	0.191	331	0.824
17	0.974	62	0.881	107	0.900	152	0.998	197	0.571	242	0.161	287	0.200	332	0.836
18	0.971	63	0.881	108	0.902	153	0.996	198	0.555	243	0.163	288	0.210	333	0.847
19	0.968	64	0.880	109	0.904	154	0.994	199	0.539	244	0.166	289	0.220	334	0.858
20	0.965	65	0.880	110	0.906	155	0.992	200	0.523	245	0.168	290	0.231	335	0.868
21	0.962	66	0.880	111	0.909	156	0.990	201	0.507	246	0.171	291	0.243	336	0.878
22	0.959	67	0.880	112	0.911	157	0.987	202	0.491	247	0.173	292	0.255	337	0.887
23	0.955	68	0.880	113	0.913	158	0.984	203	0.475	248	0.175	293	0.268	338	0.897
24	0.952	69	0.880	114	0.916	159	0.980	204	0.459	249	0.176	294	0.280	339	0.905
25	0.949	70	0.879	115	0.919	160	0.976	205	0.444	250	0.178	295	0.294	340	0.914
26	0.946	71	0.879	116	0.921	161	0.972	206	0.428	251	0.179	296	0.308	341	0.922
27	0.942	72	0.879	117	0.924	162	0.967	207	0.412	252	0.180	297	0.322	342	0.930
28	0.939	73	0.879	118	0.927	163	0.962	208	0.397	253	0.181	298	0.336	343	0.937
29	0.936	74	0.879	119	0.930	164	0.956	209	0.381	254	0.182	299	0.351	344	0.944
30	0.933	75	0.879	120	0.933	165	0.950	210	0.366	255	0.182	300	0.366	345	0.950
31	0.930	76	0.879	121	0.936	166	0.944	211	0.351	256	0.182	301	0.381	346	0.956
32	0.927	77	0.879	122	0.939	167	0.937	212	0.336	257	0.181	302	0.397	347	0.962
33	0.924	78	0.879	123	0.942	168	0.930	213	0.322	258	0.180	303	0.412	348	0.967
34	0.921	79	0.879	124	0.946	169	0.922	214	0.308	259	0.179	304	0.428	349	0.972
35	0.919	80	0.879	125	0.949	170	0.914	215	0.294	260	0.178	305	0.444	350	0.976
36	0.916	81	0.880	126	0.952	171	0.905	216	0.280	261	0.176	306	0.459	351	0.980
37	0.913	82	0.880	127	0.955	172	0.897	217	0.268	262	0.175	307	0.475	352	0.984
38	0.911	83	0.880	128	0.959	173	0.887	218	0.255	263	0.173	308	0.491	353	0.987
39	0.909	84	0.880	129	0.962	174	0.878	219	0.243	264	0.171	309	0.507	354	0.990
40	0.906	85	0.880	130	0.965	175	0.868	220	0.231	265	0.168	310	0.523	355	0.992
41	0.904	86	0.880	131	0.968	176	0.858	221	0.220	266	0.166	311	0.539	356	0.994
42	0.902	87	0.881	132	0.971	177	0.847	222	0.210	267	0.163	312	0.555	357	0.996
43	0.900	88	0.881	133	0.974	178	0.836	223	0.200	268	0.161	313	0.571	358	0.998
44	0.898	89	0.881	134	0.977	179	0.824	224	0.191	269	0.158	314	0.586	359	0.999

Dielectric

Proposal Number	**C-06258**	Revision:	**2**
Date	**19-Jan-16**		
Call Letters	**WFLI-TV**	Channel	**42**
Location	**Cleveland, TN**		
Customer	**WFLI-TV Licensee**		
Antenna Type	**TFU-17JSC/VP-R C170**		

AZIMUTH PATTERN/VERTICAL POLARIZATION

Gain	**2.50**	**(3.98 dB)**	
Calculated / Measured	**Calculated**		
Frequency	**641.00 MHz**		
0 Drawing #	**TFU-C180-V-D42**		



Dielectric

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Antenna Type	**TFU-17JSC/VP-R C170**		

TABULATION OF AZIMUTH PATTERN/VERTICAL POLARIZATION

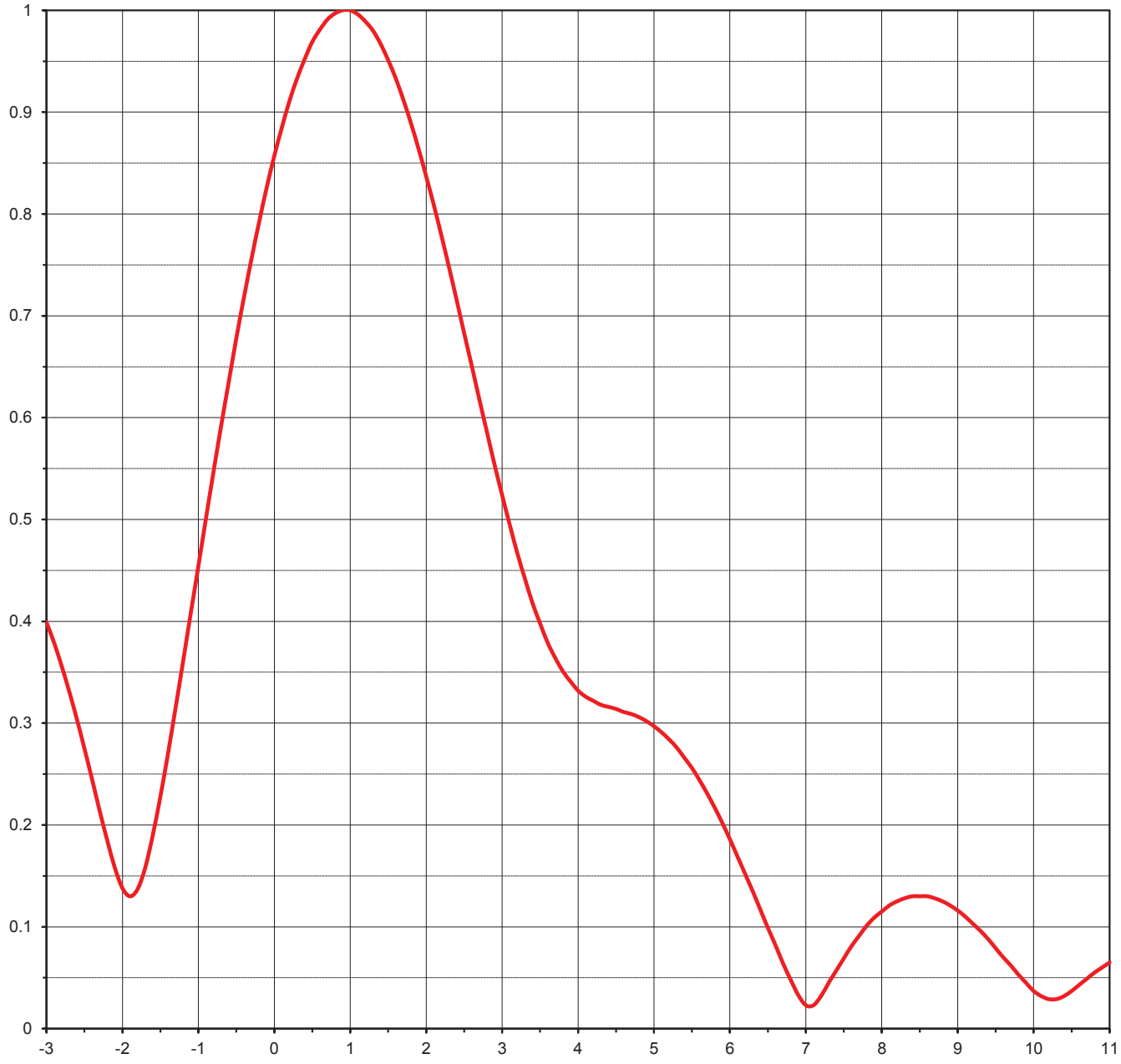
Azimuth Pattern Drawing #: **TFU-C180-V-D42**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.375	45	0.481	90	0.524	135	0.392	180	0.284	225	0.102	270	0.152	315	0.186
1	0.376	46	0.485	91	0.522	136	0.390	181	0.278	226	0.105	271	0.149	316	0.193
2	0.377	47	0.488	92	0.520	137	0.389	182	0.273	227	0.109	272	0.146	317	0.200
3	0.378	48	0.491	93	0.517	138	0.388	183	0.267	228	0.113	273	0.143	318	0.207
4	0.379	49	0.495	94	0.515	139	0.386	184	0.260	229	0.116	274	0.140	319	0.214
5	0.380	50	0.498	95	0.512	140	0.385	185	0.254	230	0.120	275	0.137	320	0.221
6	0.381	51	0.501	96	0.509	141	0.384	186	0.248	231	0.123	276	0.134	321	0.228
7	0.382	52	0.504	97	0.507	142	0.383	187	0.241	232	0.127	277	0.130	322	0.234
8	0.383	53	0.507	98	0.504	143	0.382	188	0.234	233	0.130	278	0.127	323	0.241
9	0.384	54	0.509	99	0.501	144	0.381	189	0.228	234	0.134	279	0.123	324	0.248
10	0.385	55	0.512	100	0.498	145	0.380	190	0.221	235	0.137	280	0.120	325	0.254
11	0.386	56	0.515	101	0.495	146	0.379	191	0.214	236	0.140	281	0.116	326	0.260
12	0.388	57	0.517	102	0.491	147	0.378	192	0.207	237	0.143	282	0.113	327	0.267
13	0.389	58	0.520	103	0.488	148	0.377	193	0.200	238	0.146	283	0.109	328	0.273
14	0.390	59	0.522	104	0.485	149	0.376	194	0.193	239	0.149	284	0.105	329	0.278
15	0.392	60	0.524	105	0.481	150	0.375	195	0.186	240	0.152	285	0.102	330	0.284
16	0.394	61	0.526	106	0.478	151	0.373	196	0.179	241	0.155	286	0.099	331	0.290
17	0.396	62	0.528	107	0.474	152	0.372	197	0.172	242	0.157	287	0.096	332	0.295
18	0.398	63	0.530	108	0.471	153	0.371	198	0.165	243	0.159	288	0.093	333	0.300
19	0.400	64	0.531	109	0.467	154	0.370	199	0.158	244	0.161	289	0.090	334	0.305
20	0.402	65	0.533	110	0.464	155	0.369	200	0.152	245	0.163	290	0.088	335	0.310
21	0.404	66	0.534	111	0.460	156	0.367	201	0.145	246	0.165	291	0.086	336	0.315
22	0.406	67	0.535	112	0.457	157	0.366	202	0.139	247	0.166	292	0.085	337	0.319
23	0.409	68	0.536	113	0.453	158	0.364	203	0.132	248	0.168	293	0.084	338	0.323
24	0.411	69	0.537	114	0.450	159	0.362	204	0.126	249	0.169	294	0.084	339	0.328
25	0.414	70	0.538	115	0.446	160	0.360	205	0.120	250	0.170	295	0.084	340	0.331
26	0.417	71	0.539	116	0.443	161	0.358	206	0.115	251	0.171	296	0.085	341	0.335
27	0.420	72	0.539	117	0.439	162	0.356	207	0.109	252	0.171	297	0.087	342	0.339
28	0.423	73	0.540	118	0.436	163	0.353	208	0.104	253	0.172	298	0.089	343	0.342
29	0.426	74	0.540	119	0.432	164	0.351	209	0.100	254	0.172	299	0.092	344	0.345
30	0.429	75	0.540	120	0.429	165	0.348	210	0.096	255	0.172	300	0.096	345	0.348
31	0.432	76	0.540	121	0.426	166	0.345	211	0.092	256	0.172	301	0.100	346	0.351
32	0.436	77	0.540	122	0.423	167	0.342	212	0.089	257	0.172	302	0.104	347	0.353
33	0.439	78	0.539	123	0.420	168	0.339	213	0.087	258	0.171	303	0.109	348	0.356
34	0.443	79	0.539	124	0.417	169	0.335	214	0.085	259	0.171	304	0.115	349	0.358
35	0.446	80	0.538	125	0.414	170	0.331	215	0.084	260	0.170	305	0.120	350	0.360
36	0.450	81	0.537	126	0.411	171	0.328	216	0.084	261	0.169	306	0.126	351	0.362
37	0.453	82	0.536	127	0.409	172	0.323	217	0.084	262	0.168	307	0.132	352	0.364
38	0.457	83	0.535	128	0.406	173	0.319	218	0.085	263	0.166	308	0.139	353	0.366
39	0.460	84	0.534	129	0.404	174	0.315	219	0.086	264	0.165	309	0.145	354	0.367
40	0.464	85	0.533	130	0.402	175	0.310	220	0.088	265	0.163	310	0.152	355	0.369
41	0.467	86	0.531	131	0.400	176	0.305	221	0.090	266	0.161	311	0.158	356	0.370
42	0.471	87	0.530	132	0.398	177	0.300	222	0.093	267	0.159	312	0.165	357	0.371
43	0.474	88	0.528	133	0.396	178	0.295	223	0.096	268	0.157	313	0.172	358	0.372
44	0.478	89	0.526	134	0.394	179	0.290	224	0.099	269	0.155	314	0.179	359	0.373

Proposal Number	**C-06258-2**	Revision:	**2**
Date	**19-Jan-16**		
Call Letters	**WFLI-TV**	Channel	**42**
Location	**Cleveland, TN**		
Customer	**WFLI-TV Licensee**		
Antenna Type	**TFU-17JSC/VP-R C170**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**15.50 (11.90 dB)**	Beam Tilt	**1.00 deg**
RMS Gain at Horizontal	**11.40 (10.57 dB)**	Frequency	**641.00 MHz**
Calculated / Measured	**Calculated**	Drawing #	**17Z155100**



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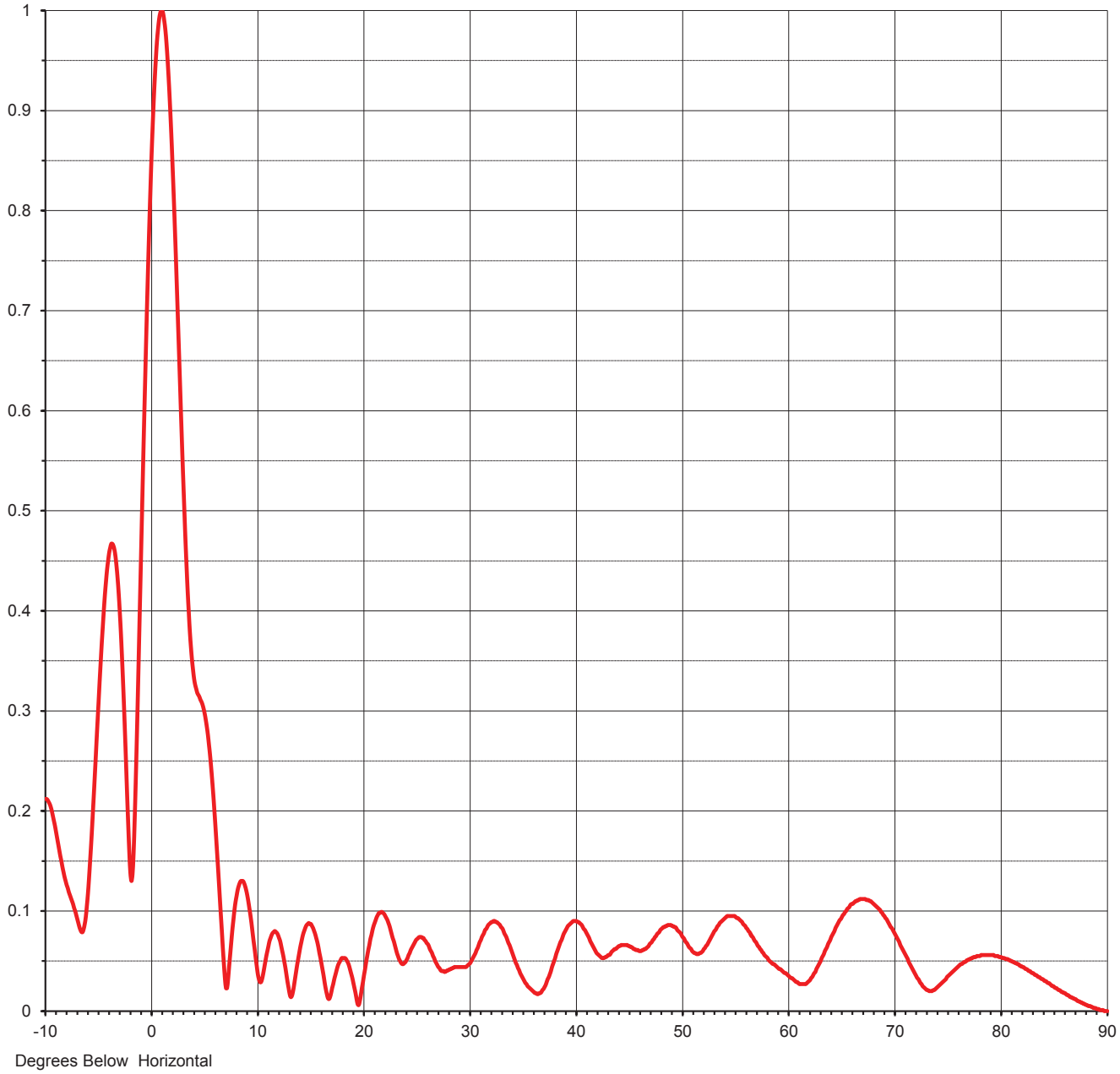
Call Letters	**WFLI-TV**	Channel	**42**
Location	**Cleveland, TN**		
Customer	**WFLI-TV Licensee**		
Antenna Type	**TFU-17JSC/VP-R C170**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**15.50 (11.90 dB)**	Beam Tilt	**1.00 deg**
RMS Gain at Horizontal	**11.40 (10.57 dB)**	Frequency	**641.00 MHz**
Calculated / Measured	**Calculated**	Drawing #	**17Z155100-90**



Dielectric

Proposal Number	**C-06258-2**	Revision:	**2**
Date	**19-Jan-16**		
Call Letters	**WFLI-TV**	Channel	**42**
Location	**Cleveland, TN**		
Customer	**WFLI-TV Licensee**		
Antenna Type	**TFU-17JSC/VP-R C170**		

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **17Z155100-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.212	2.4	0.716	10.6	0.037	30.5	0.056	51.0	0.060	71.5	0.045
-9.5	0.204	2.6	0.651	10.8	0.049	31.0	0.069	51.5	0.057	72.0	0.035
-9.0	0.179	2.8	0.586	11.0	0.060	31.5	0.081	52.0	0.060	72.5	0.027
-8.5	0.150	3.0	0.524	11.5	0.078	32.0	0.088	52.5	0.068	73.0	0.021
-8.0	0.126	3.2	0.467	12.0	0.076	32.5	0.089	53.0	0.078	73.5	0.020
-7.5	0.110	3.4	0.418	12.5	0.055	33.0	0.084	53.5	0.086	74.0	0.024
-7.0	0.092	3.6	0.379	13.0	0.023	33.5	0.074	54.0	0.092	74.5	0.029
-6.5	0.079	3.8	0.351	13.5	0.025	34.0	0.060	54.5	0.095	75.0	0.035
-6.0	0.117	4.0	0.332	14.0	0.058	34.5	0.046	55.0	0.095	75.5	0.040
-5.5	0.205	4.2	0.322	14.5	0.081	35.0	0.034	55.5	0.091	76.0	0.045
-5.0	0.308	4.4	0.316	15.0	0.087	35.5	0.025	56.0	0.085	76.5	0.049
-4.5	0.401	4.6	0.311	15.5	0.077	36.0	0.020	56.5	0.077	77.0	0.052
-4.0	0.458	4.8	0.306	16.0	0.053	36.5	0.017	57.0	0.069	77.5	0.054
-3.5	0.461	5.0	0.297	16.5	0.022	37.0	0.022	57.5	0.061	78.0	0.055
-3.0	0.399	5.2	0.284	17.0	0.018	37.5	0.034	58.0	0.054	78.5	0.056
-2.8	0.356	5.4	0.266	17.5	0.040	38.0	0.050	58.5	0.048	79.0	0.056
-2.6	0.304	5.6	0.244	18.0	0.053	38.5	0.066	59.0	0.044	79.5	0.055
-2.4	0.245	5.8	0.217	18.5	0.050	39.0	0.079	59.5	0.040	80.0	0.054
-2.2	0.185	6.0	0.186	19.0	0.033	39.5	0.087	60.0	0.036	80.5	0.052
-2.0	0.138	6.2	0.152	19.5	0.007	40.0	0.090	60.5	0.032	81.0	0.050
-1.8	0.137	6.4	0.117	20.0	0.029	40.5	0.087	61.0	0.028	81.5	0.047
-1.6	0.190	6.6	0.082	20.5	0.061	41.0	0.079	61.5	0.027	82.0	0.044
-1.4	0.270	6.8	0.048	21.0	0.085	41.5	0.068	62.0	0.030	82.5	0.041
-1.2	0.361	7.0	0.023	21.5	0.098	42.0	0.058	62.5	0.038	83.0	0.038
-1.0	0.454	7.2	0.032	22.0	0.097	42.5	0.053	63.0	0.048	83.5	0.034
-0.8	0.547	7.4	0.057	22.5	0.085	43.0	0.055	63.5	0.060	84.0	0.031
-0.6	0.635	7.6	0.081	23.0	0.066	43.5	0.060	64.0	0.071	84.5	0.028
-0.4	0.718	7.8	0.101	23.5	0.050	44.0	0.064	64.5	0.085	85.0	0.024
-0.2	0.792	8.0	0.115	24.0	0.049	44.5	0.066	65.0	0.094	85.5	0.021
0.0	0.857	8.2	0.125	24.5	0.061	45.0	0.065	65.5	0.102	86.0	0.018
0.2	0.911	8.4	0.130	25.0	0.071	45.5	0.062	66.0	0.107	86.5	0.014
0.4	0.952	8.6	0.130	25.5	0.074	46.0	0.060	66.5	0.111	87.0	0.012
0.6	0.981	8.8	0.125	26.0	0.068	46.5	0.062	67.0	0.112	87.5	0.009
0.8	0.997	9.0	0.116	26.5	0.058	47.0	0.067	67.5	0.111	88.0	0.006
1.0	1.000	9.2	0.103	27.0	0.046	47.5	0.074	68.0	0.107	88.5	0.004
1.2	0.989	9.4	0.088	27.5	0.040	48.0	0.081	68.5	0.102	89.0	0.002
1.4	0.967	9.6	0.070	28.0	0.041	48.5	0.085	69.0	0.095	89.5	0.001
1.6	0.933	9.8	0.062	28.5	0.043	49.0	0.086	69.5	0.086	90.0	0.000
1.8	0.889	10.0	0.045	29.0	0.044	49.5	0.083	70.0	0.077		
2.0	0.837	10.2	0.032	29.5	0.044	50.0	0.076	70.5	0.066		
2.2	0.779	10.4	0.029	30.0	0.047	50.5	0.068	71.0	0.056		