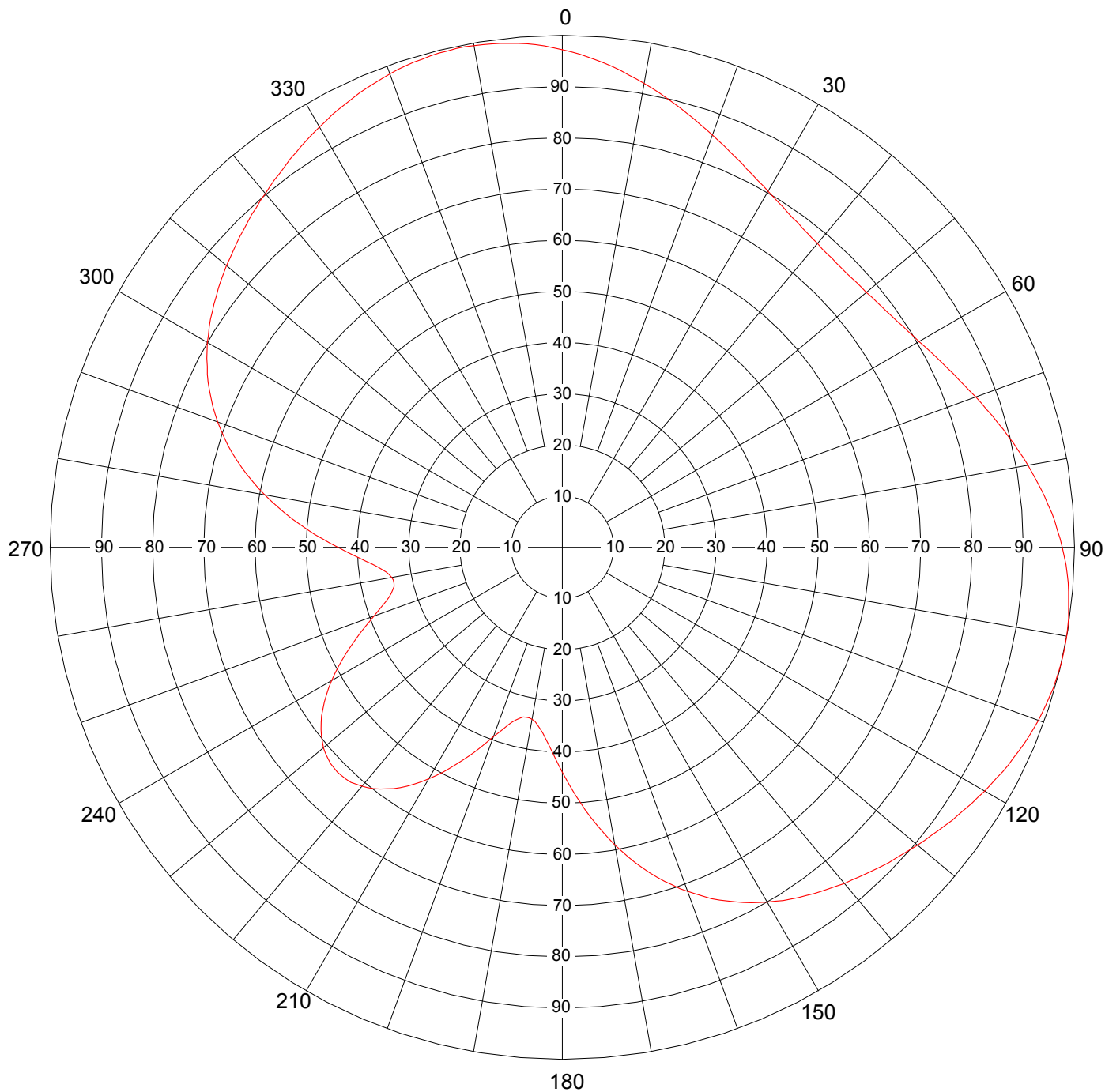




Date  
Call Letters  
Location  
Customer  
Antenna Type

**24 Feb 2018**  
**WETA-TV** Ch **31**  
**Washington, DC**  
**WETA-TV**  
**TFU-WB**

### AZIMUTH PATTERN



Remarks:



Date **24 Feb 2018**  
 Call Letters **WETA-TV** Ch **31**  
 Location **Washington, DC**  
 Customer **WETA-TV**  
 Antenna Type **TFU-WB**

### TABULATION OF AZIMUTH PATTERN

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.972	45	0.771	90	0.976	135	0.881	180	0.439	225	0.621	270	0.438	315	0.879
1	0.968	46	0.771	91	0.980	136	0.876	181	0.425	226	0.620	271	0.453	316	0.884
2	0.964	47	0.772	92	0.984	137	0.871	182	0.411	227	0.619	272	0.468	317	0.889
3	0.959	48	0.773	93	0.987	138	0.866	183	0.398	228	0.616	273	0.484	318	0.893
4	0.954	49	0.774	94	0.990	139	0.861	184	0.386	229	0.613	274	0.499	319	0.898
5	0.949	50	0.775	95	0.992	140	0.857	185	0.375	230	0.609	275	0.514	320	0.902
6	0.944	51	0.777	96	0.994	141	0.851	186	0.365	231	0.603	276	0.530	321	0.907
7	0.938	52	0.779	97	0.996	142	0.846	187	0.357	232	0.597	277	0.545	322	0.912
8	0.932	53	0.781	98	0.998	143	0.841	188	0.350	233	0.590	278	0.560	323	0.916
9	0.926	54	0.783	99	0.999	144	0.836	189	0.344	234	0.582	279	0.575	324	0.921
10	0.920	55	0.786	100	1.000	145	0.830	190	0.341	235	0.574	280	0.590	325	0.926
11	0.914	56	0.789	101	1.000	146	0.825	191	0.339	236	0.564	281	0.604	326	0.930
12	0.908	57	0.793	102	1.000	147	0.819	192	0.339	237	0.554	282	0.618	327	0.935
13	0.901	58	0.796	103	1.000	148	0.813	193	0.340	238	0.543	283	0.632	328	0.939
14	0.895	59	0.800	104	0.999	149	0.806	194	0.344	239	0.532	284	0.645	329	0.944
15	0.889	60	0.804	105	0.998	150	0.800	195	0.349	240	0.520	285	0.658	330	0.948
16	0.882	61	0.809	106	0.997	151	0.793	196	0.355	241	0.508	286	0.671	331	0.952
17	0.876	62	0.814	107	0.995	152	0.786	197	0.363	242	0.495	287	0.683	332	0.957
18	0.869	63	0.819	108	0.993	153	0.778	198	0.373	243	0.482	288	0.694	333	0.961
19	0.863	64	0.824	109	0.991	154	0.770	199	0.383	244	0.469	289	0.705	334	0.964
20	0.857	65	0.829	110	0.989	155	0.762	200	0.394	245	0.455	290	0.716	335	0.968
21	0.851	66	0.835	111	0.986	156	0.754	201	0.406	246	0.442	291	0.726	336	0.972
22	0.845	67	0.840	112	0.983	157	0.745	202	0.419	247	0.429	292	0.736	337	0.975
23	0.839	68	0.846	113	0.980	158	0.735	203	0.432	248	0.416	293	0.745	338	0.978
24	0.833	69	0.852	114	0.976	159	0.725	204	0.445	249	0.403	294	0.754	339	0.981
25	0.828	70	0.859	115	0.972	160	0.715	205	0.458	250	0.391	295	0.763	340	0.984
26	0.822	71	0.865	116	0.969	161	0.705	206	0.471	251	0.380	296	0.771	341	0.987
27	0.817	72	0.871	117	0.965	162	0.693	207	0.484	252	0.370	297	0.778	342	0.989
28	0.812	73	0.878	118	0.960	163	0.682	208	0.497	253	0.360	298	0.786	343	0.991
29	0.808	74	0.884	119	0.956	164	0.670	209	0.510	254	0.352	299	0.793	344	0.992
30	0.803	75	0.891	120	0.952	165	0.658	210	0.522	255	0.346	300	0.800	345	0.994
31	0.799	76	0.897	121	0.947	166	0.645	211	0.534	256	0.341	301	0.806	346	0.995
32	0.795	77	0.904	122	0.943	167	0.632	212	0.545	257	0.337	302	0.813	347	0.995
33	0.792	78	0.910	123	0.938	168	0.618	213	0.556	258	0.336	303	0.819	348	0.996
34	0.788	79	0.917	124	0.933	169	0.604	214	0.566	259	0.336	304	0.824	349	0.996
35	0.785	80	0.923	125	0.929	170	0.590	215	0.575	260	0.338	305	0.830	350	0.995
36	0.783	81	0.929	126	0.924	171	0.575	216	0.583	261	0.342	306	0.835	351	0.994
37	0.780	82	0.935	127	0.919	172	0.560	217	0.591	262	0.347	307	0.841	352	0.993
38	0.778	83	0.941	128	0.914	173	0.545	218	0.598	263	0.355	308	0.846	353	0.992
39	0.776	84	0.947	129	0.910	174	0.530	219	0.604	264	0.363	309	0.851	354	0.990
40	0.775	85	0.952	130	0.905	175	0.515	220	0.609	265	0.373	310	0.856	355	0.988
41	0.773	86	0.958	131	0.900	176	0.499	221	0.613	266	0.385	311	0.860	356	0.986
42	0.772	87	0.963	132	0.895	177	0.484	222	0.617	267	0.397	312	0.865	357	0.983
43	0.772	88	0.967	133	0.890	178	0.469	223	0.619	268	0.410	313	0.870	358	0.980
44	0.771	89	0.972	134	0.886	179	0.454	224	0.620	269	0.424	314	0.875	359	0.976

Remarks:



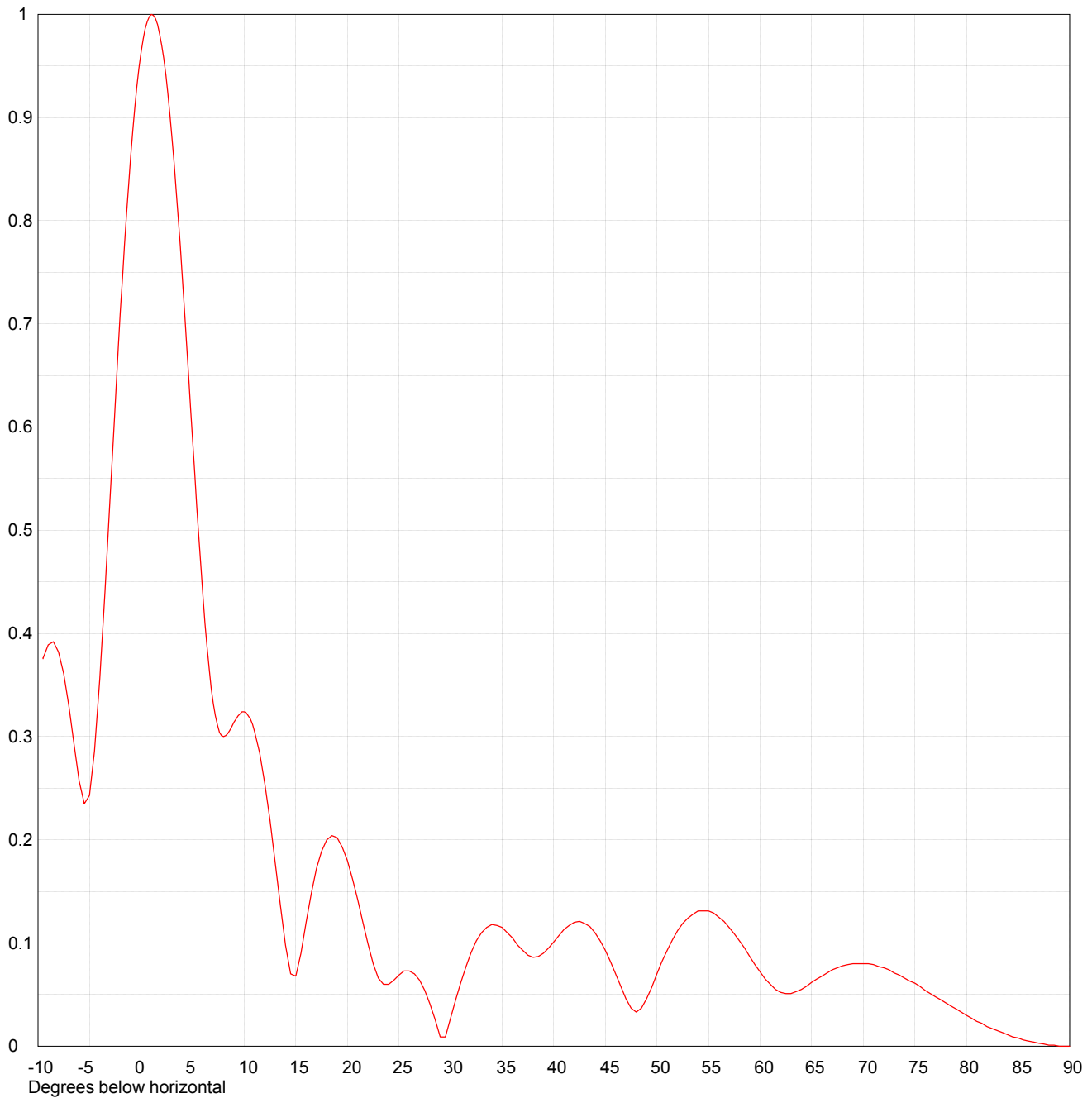
Date  
Call Letters  
Location  
Customer  
Antenna Type

**24 Feb 2018**  
**WETA-TV** Ch **31**  
**Washington, DC**  
**WETA-TV**  
**TFU-WB**

## ELEVATION PATTERN

Beam Tilt

**1.00 Degrees**



Remarks:



Date **24 Feb 2018**  
 Call Letters **WETA-TV** Ch **31**  
 Location **Washington, DC**  
 Customer **WETA-TV**  
 Antenna Type **TFU-WB**

### TABULATION OF ELEVATION PATTERN

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.351	2.4	0.941	10.6	0.317	30.5	0.045	51.0	0.093	71.5	0.077
-9.5	0.376	2.6	0.923	10.8	0.312	31.0	0.062	51.5	0.103	72.0	0.076
-9.0	0.389	2.8	0.903	11.0	0.305	31.5	0.077	52.0	0.112	72.5	0.074
-8.5	0.392	3.0	0.880	11.5	0.284	32.0	0.091	52.5	0.119	73.0	0.071
-8.0	0.382	3.2	0.856	12.0	0.254	32.5	0.102	53.0	0.124	73.5	0.069
-7.5	0.361	3.4	0.830	12.5	0.219	33.0	0.110	53.5	0.128	74.0	0.066
-7.0	0.330	3.6	0.803	13.0	0.179	33.5	0.115	54.0	0.131	74.5	0.063
-6.5	0.293	3.8	0.775	13.5	0.137	34.0	0.118	54.5	0.131	75.0	0.061
-6.0	0.257	4.0	0.745	14.0	0.098	34.5	0.117	55.0	0.131	75.5	0.058
-5.5	0.235	4.2	0.714	14.5	0.070	35.0	0.115	55.5	0.129	76.0	0.054
-5.0	0.243	4.4	0.683	15.0	0.068	35.5	0.110	56.0	0.125	76.5	0.051
-4.5	0.286	4.6	0.651	15.5	0.090	36.0	0.105	56.5	0.121	77.0	0.048
-4.0	0.356	4.8	0.619	16.0	0.120	36.5	0.098	57.0	0.115	77.5	0.045
-3.5	0.440	5.0	0.587	16.5	0.148	37.0	0.093	57.5	0.109	78.0	0.042
-3.0	0.532	5.2	0.555	17.0	0.172	37.5	0.088	58.0	0.102	78.5	0.039
-2.8	0.569	5.4	0.523	17.5	0.189	38.0	0.086	58.5	0.095	79.0	0.036
-2.6	0.606	5.6	0.493	18.0	0.200	38.5	0.087	59.0	0.087	79.5	0.033
-2.4	0.642	5.8	0.464	18.5	0.204	39.0	0.090	59.5	0.079	80.0	0.030
-2.2	0.678	6.0	0.436	19.0	0.202	39.5	0.095	60.0	0.072	80.5	0.027
-2.0	0.712	6.2	0.410	19.5	0.193	40.0	0.101	60.5	0.065	81.0	0.024
-1.8	0.745	6.4	0.387	20.0	0.180	40.5	0.107	61.0	0.060	81.5	0.022
-1.6	0.777	6.6	0.366	20.5	0.162	41.0	0.113	61.5	0.055	82.0	0.019
-1.4	0.808	6.8	0.347	21.0	0.142	41.5	0.117	62.0	0.052	82.5	0.017
-1.2	0.836	7.0	0.332	21.5	0.120	42.0	0.120	62.5	0.051	83.0	0.015
-1.0	0.863	7.2	0.320	22.0	0.099	42.5	0.121	63.0	0.051	83.5	0.013
-0.8	0.888	7.4	0.311	22.5	0.080	43.0	0.119	63.5	0.053	84.0	0.011
-0.6	0.910	7.6	0.304	23.0	0.066	43.5	0.116	64.0	0.055	84.5	0.009
-0.4	0.930	7.8	0.301	23.5	0.060	44.0	0.110	64.5	0.058	85.0	0.008
-0.2	0.948	8.0	0.300	24.0	0.060	44.5	0.102	65.0	0.062	85.5	0.006
0.0	0.963	8.2	0.301	24.5	0.064	45.0	0.093	65.5	0.065	86.0	0.005
0.2	0.976	8.4	0.303	25.0	0.069	45.5	0.082	66.0	0.068	86.5	0.004
0.4	0.986	8.6	0.306	25.5	0.073	46.0	0.070	66.5	0.071	87.0	0.003
0.6	0.993	8.8	0.310	26.0	0.073	46.5	0.058	67.0	0.074	87.5	0.002
0.8	0.998	9.0	0.314	26.5	0.070	47.0	0.046	67.5	0.076	88.0	0.001
1.0	1.000	9.2	0.317	27.0	0.064	47.5	0.037	68.0	0.078	88.5	0.001
1.2	0.999	9.4	0.320	27.5	0.054	48.0	0.033	68.5	0.079	89.0	0.000
1.4	0.996	9.6	0.322	28.0	0.041	48.5	0.037	69.0	0.080	89.5	0.000
1.6	0.990	9.8	0.324	28.5	0.026	49.0	0.046	69.5	0.080	90.0	0.000
1.8	0.981	10.0	0.324	29.0	0.009	49.5	0.057	70.0	0.080		
2.0	0.970	10.2	0.323	29.5	0.009	50.0	0.070	70.5	0.080		
2.2	0.957	10.4	0.320	30.0	0.027	50.5	0.082	71.0	0.079		

Remarks: