

## AZIMUTH PATTERN Horizontal Polarization

Proposal No. **C-71341**  
 Date **28-May-19**  
 Call Letters **WOWK**  
 Channel **10**  
 Frequency **195 MHz**  
 Antenna Type **TLS-8BB**  
 Gain **1.76 (2.45dB)**  
 Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	1.000	36	0.931	72	0.751	108	0.588	144	0.597	180	0.644	216	0.597	252	0.588	288	0.751	324	0.931
1	1.000	37	0.927	73	0.745	109	0.586	145	0.599	181	0.644	217	0.595	253	0.591	289	0.757	325	0.935
2	1.000	38	0.923	74	0.740	110	0.584	146	0.601	182	0.644	218	0.594	254	0.593	290	0.762	326	0.938
3	0.999	39	0.919	75	0.734	111	0.582	147	0.603	183	0.643	219	0.592	255	0.596	291	0.768	327	0.942
4	0.999	40	0.915	76	0.728	112	0.580	148	0.605	184	0.643	220	0.590	256	0.599	292	0.774	328	0.945
5	0.999	41	0.911	77	0.723	113	0.579	149	0.607	185	0.643	221	0.588	257	0.602	293	0.779	329	0.949
6	0.998	42	0.907	78	0.717	114	0.577	150	0.609	186	0.642	222	0.587	258	0.605	294	0.785	330	0.952
7	0.997	43	0.903	79	0.712	115	0.576	151	0.611	187	0.642	223	0.585	259	0.609	295	0.791	331	0.955
8	0.997	44	0.898	80	0.706	116	0.575	152	0.613	188	0.641	224	0.583	260	0.612	296	0.796	332	0.958
9	0.996	45	0.894	81	0.701	117	0.574	153	0.615	189	0.640	225	0.582	261	0.616	297	0.802	333	0.961
10	0.995	46	0.889	82	0.695	118	0.573	154	0.616	190	0.639	226	0.581	262	0.619	298	0.807	334	0.964
11	0.993	47	0.885	83	0.690	119	0.573	155	0.618	191	0.638	227	0.579	263	0.623	299	0.813	335	0.966
12	0.992	48	0.880	84	0.685	120	0.572	156	0.620	192	0.637	228	0.578	264	0.627	300	0.818	336	0.969
13	0.991	49	0.875	85	0.679	121	0.572	157	0.622	193	0.636	229	0.577	265	0.632	301	0.824	337	0.971
14	0.989	50	0.870	86	0.674	122	0.572	158	0.624	194	0.635	230	0.576	266	0.636	302	0.829	338	0.974
15	0.988	51	0.865	87	0.669	123	0.572	159	0.625	195	0.634	231	0.575	267	0.640	303	0.835	339	0.976
16	0.986	52	0.860	88	0.664	124	0.572	160	0.627	196	0.633	232	0.574	268	0.645	304	0.840	340	0.978
17	0.984	53	0.855	89	0.659	125	0.572	161	0.628	197	0.631	233	0.573	269	0.650	305	0.845	341	0.980
18	0.982	54	0.850	90	0.654	126	0.573	162	0.630	198	0.630	234	0.573	270	0.654	306	0.850	342	0.982
19	0.980	55	0.845	91	0.650	127	0.573	163	0.631	199	0.628	235	0.572	271	0.659	307	0.855	343	0.984
20	0.978	56	0.840	92	0.645	128	0.574	164	0.633	200	0.627	236	0.572	272	0.664	308	0.860	344	0.986
21	0.976	57	0.835	93	0.640	129	0.575	165	0.634	201	0.625	237	0.572	273	0.669	309	0.865	345	0.988
22	0.974	58	0.829	94	0.636	130	0.576	166	0.635	202	0.624	238	0.572	274	0.674	310	0.870	346	0.989
23	0.971	59	0.824	95	0.632	131	0.577	167	0.636	203	0.622	239	0.572	275	0.679	311	0.875	347	0.991
24	0.969	60	0.818	96	0.627	132	0.578	168	0.637	204	0.620	240	0.572	276	0.685	312	0.880	348	0.992
25	0.966	61	0.813	97	0.623	133	0.579	169	0.638	205	0.618	241	0.573	277	0.690	313	0.885	349	0.993
26	0.964	62	0.807	98	0.619	134	0.581	170	0.639	206	0.616	242	0.573	278	0.695	314	0.889	350	0.995
27	0.961	63	0.802	99	0.616	135	0.582	171	0.640	207	0.615	243	0.574	279	0.701	315	0.894	351	0.996
28	0.958	64	0.796	100	0.612	136	0.583	172	0.641	208	0.613	244	0.575	280	0.706	316	0.898	352	0.997
29	0.955	65	0.791	101	0.609	137	0.585	173	0.642	209	0.611	245	0.576	281	0.712	317	0.903	353	0.997
30	0.952	66	0.785	102	0.605	138	0.587	174	0.642	210	0.609	246	0.577	282	0.717	318	0.907	354	0.998
31	0.949	67	0.779	103	0.602	139	0.588	175	0.643	211	0.607	247	0.579	283	0.723	319	0.911	355	0.999
32	0.945	68	0.774	104	0.599	140	0.590	176	0.643	212	0.605	248	0.580	284	0.728	320	0.915	356	0.999
33	0.942	69	0.768	105	0.596	141	0.592	177	0.643	213	0.603	249	0.582	285	0.734	321	0.919	357	0.999
34	0.938	70	0.762	106	0.593	142	0.594	178	0.644	214	0.601	250	0.584	286	0.740	322	0.923	358	1.000
35	0.935	71	0.757	107	0.591	143	0.595	179	0.644	215	0.599	251	0.586	287	0.745	323	0.927	359	1.000

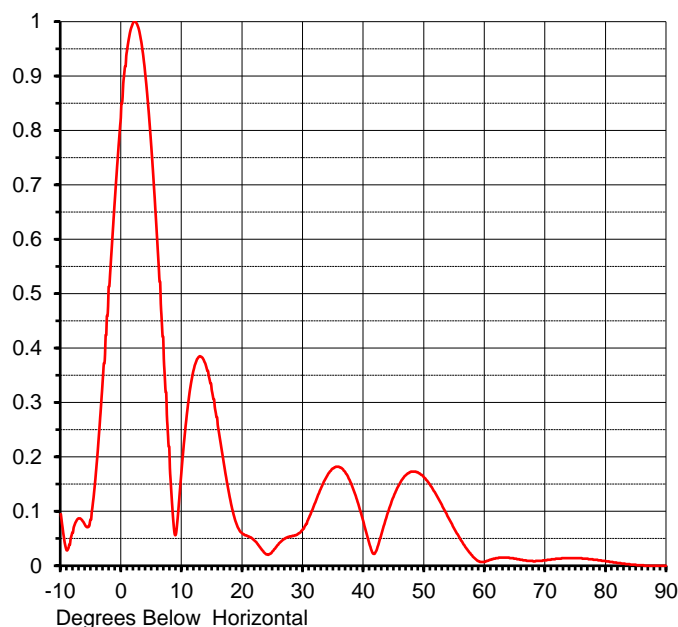
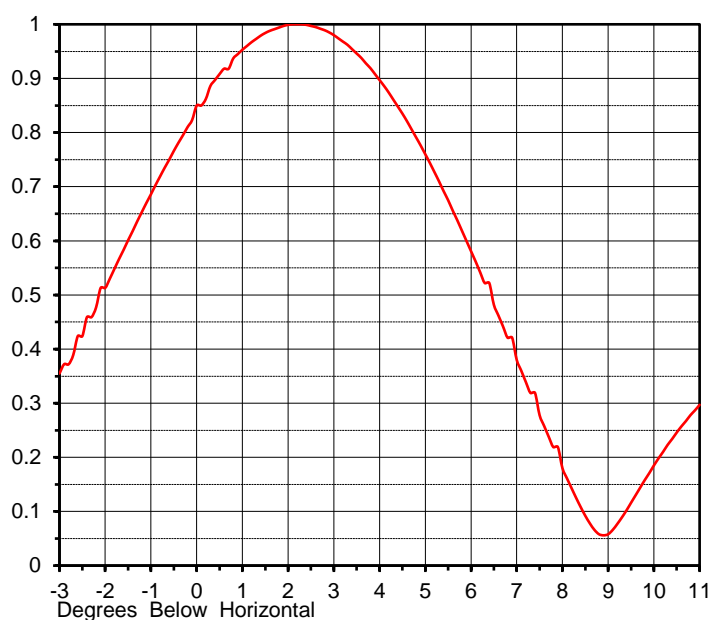
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## ELEVATION PATTERN

Proposal No. **C-71341**  
 Date **28-May-19**  
 Call Letters **WOWK**  
 Channel **10**  
 Frequency **195 MHz**  
 Antenna Type **TLS-8BB**

RMS Directivity at Main Lobe **7.7 ( 8.88 dB )**  
 RMS Directivity at Horizontal **5.6 ( 7.48 dB )**  
**Calculated**

Beam Tilt **2.20 deg**  
 Pattern Number **08T077220**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.095	10.0	0.185	30.0	0.068	50.0	0.162	70.0	0.010
-9.0	0.028	11.0	0.297	31.0	0.089	51.0	0.148	71.0	0.012
-8.0	0.061	12.0	0.363	32.0	0.116	52.0	0.130	72.0	0.013
-7.0	0.087	13.0	0.385	33.0	0.144	53.0	0.109	73.0	0.014
-6.0	0.075	14.0	0.366	34.0	0.166	54.0	0.088	74.0	0.014
-5.0	0.085	15.0	0.318	35.0	0.179	55.0	0.067	75.0	0.014
-4.0	0.198	16.0	0.252	36.0	0.181	56.0	0.048	76.0	0.014
-3.0	0.355	17.0	0.182	37.0	0.171	57.0	0.031	77.0	0.013
-2.0	0.513	18.0	0.120	38.0	0.149	58.0	0.017	78.0	0.011
-1.0	0.686	19.0	0.077	39.0	0.117	59.0	0.008	79.0	0.010
0.0	0.850	20.0	0.059	40.0	0.079	60.0	0.007	80.0	0.008
1.0	0.953	21.0	0.054	41.0	0.038	61.0	0.011	81.0	0.007
2.0	0.999	22.0	0.046	42.0	0.026	62.0	0.014	82.0	0.005
3.0	0.980	23.0	0.032	43.0	0.061	63.0	0.015	83.0	0.004
4.0	0.897	24.0	0.021	44.0	0.098	64.0	0.015	84.0	0.002
5.0	0.760	25.0	0.027	45.0	0.129	65.0	0.013	85.0	0.001
6.0	0.581	26.0	0.041	46.0	0.152	66.0	0.011	86.0	0.001
7.0	0.380	27.0	0.050	47.0	0.167	67.0	0.009	87.0	0.000
8.0	0.180	28.0	0.054	48.0	0.173	68.0	0.008	88.0	0.000
9.0	0.058	29.0	0.057	49.0	0.171	69.0	0.009	89.0	0.000
								90.0	0.000

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