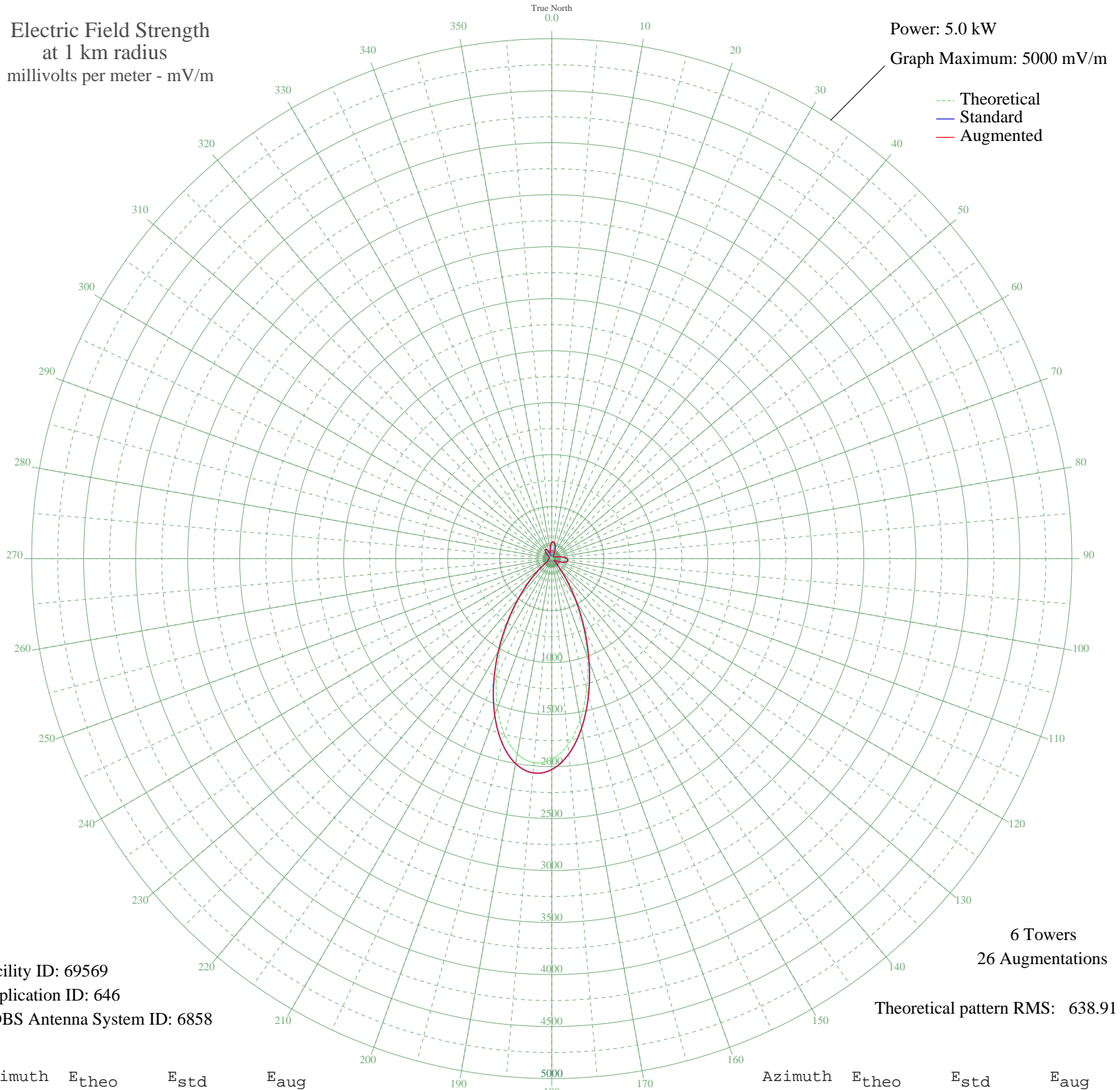


# WDIA MEMPHIS, TN BL-14443 1070 kHz

Nighttime

Electric Field Strength  
at 1 km radius  
millivolts per meter - mV/m

Power: 5.0 kW  
Graph Maximum: 5000 mV/m



Facility ID: 69569  
Application ID: 646  
CDBS Antenna System ID: 6858

6 Towers  
26 Augmentations  
Theoretical pattern RMS: 638.91

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	145.68	154.76	156.96
5	152.83	162.18	164.79
10	140.26	149.14	153.94
15	113.03	120.98	134.45
20	78.78	85.99	98.05
25	45.54	53.27	59.55
30	19.55	31.18	35.67
35	3.89	23.83	24.14
40	1.75	23.55	23.71
45	0.53	23.49	22.92
50	2.93	23.68	22.51
55	3.87	23.83	26.67
60	1.37	23.52	30.87
65	14.62	28.05	38.36
70	35.67	44.20	46.86
75	62.41	69.61	69.20
80	91.35	98.75	98.75
85	118.12	126.23	126.23
90	138.22	147.01	147.01
95	147.56	156.71	156.71
100	143.25	152.23	152.23
105	124.18	132.49	132.49
110	91.82	99.23	99.23
115	50.75	58.23	58.21
120	9.00	25.31	32.14
125	22.04	32.97	30.98
130	28.50	38.04	43.28
135	4.30	23.91	79.14
140	89.40	96.76	97.53
145	235.17	248.04	248.04
150	442.49	465.21	465.21
155	702.69	738.20	738.20
160	997.08	1047.19	1047.19
165	1298.50	1363.63	1363.63
170	1574.99	1653.91	1653.91
175	1794.77	1884.66	1884.66

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	1931.73	2028.45	2028.45
185	1969.97	2068.60	2068.60
190	1906.53	2002.00	2002.00
195	1751.54	1839.27	1839.27
200	1525.90	1602.37	1602.37
205	1257.20	1320.27	1320.27
210	974.81	1023.82	1023.82
215	705.34	740.98	740.98
220	469.20	493.22	493.22
225	278.84	293.73	313.82
230	138.66	147.47	147.47
235	46.17	53.86	58.95
240	5.98	24.30	47.60
245	27.77	37.44	37.78
250	29.81	39.12	39.96
255	21.69	32.71	35.62
260	11.03	26.18	30.02
265	2.94	23.68	25.36
270	0.05	23.48	25.47
275	2.22	23.59	22.32
280	8.04	24.95	22.53
285	14.39	27.92	27.06
290	17.76	29.98	24.14
295	14.94	28.24	22.53
300	3.91	23.83	27.42
305	15.42	28.52	29.37
310	40.76	48.82	48.82
315	67.52	74.68	74.68
320	89.47	96.83	96.83
325	100.09	107.69	107.69
330	94.29	101.75	101.75
335	70.00	77.15	79.35
340	29.25	38.66	56.66
345	21.82	32.80	59.76
350	74.18	81.35	86.63
355	118.11	126.22	129.72

The theoretical pattern is used to create the standard pattern. Augmentations (if any) expand the standard pattern in specified directions. See Sections 73.150 and 73.152 of the FCC's Rules.

AM coverage may not mirror the pattern shown here. Additional factors such as ground conductivity or skywave propagation affect how far the AM signal will travel.

Patterns for stations outside the USA are based on notified parameters.

AM directional patterns created before 1982 used units of 1 mV/m at 1 mile, not one kilometer. The pattern values on such plots at 1 mile will be 0.62137 of the values listed here. Measured pattern values may vary from values shown here.

Plot is best printed on 11" by 17" or larger paper.

13 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission