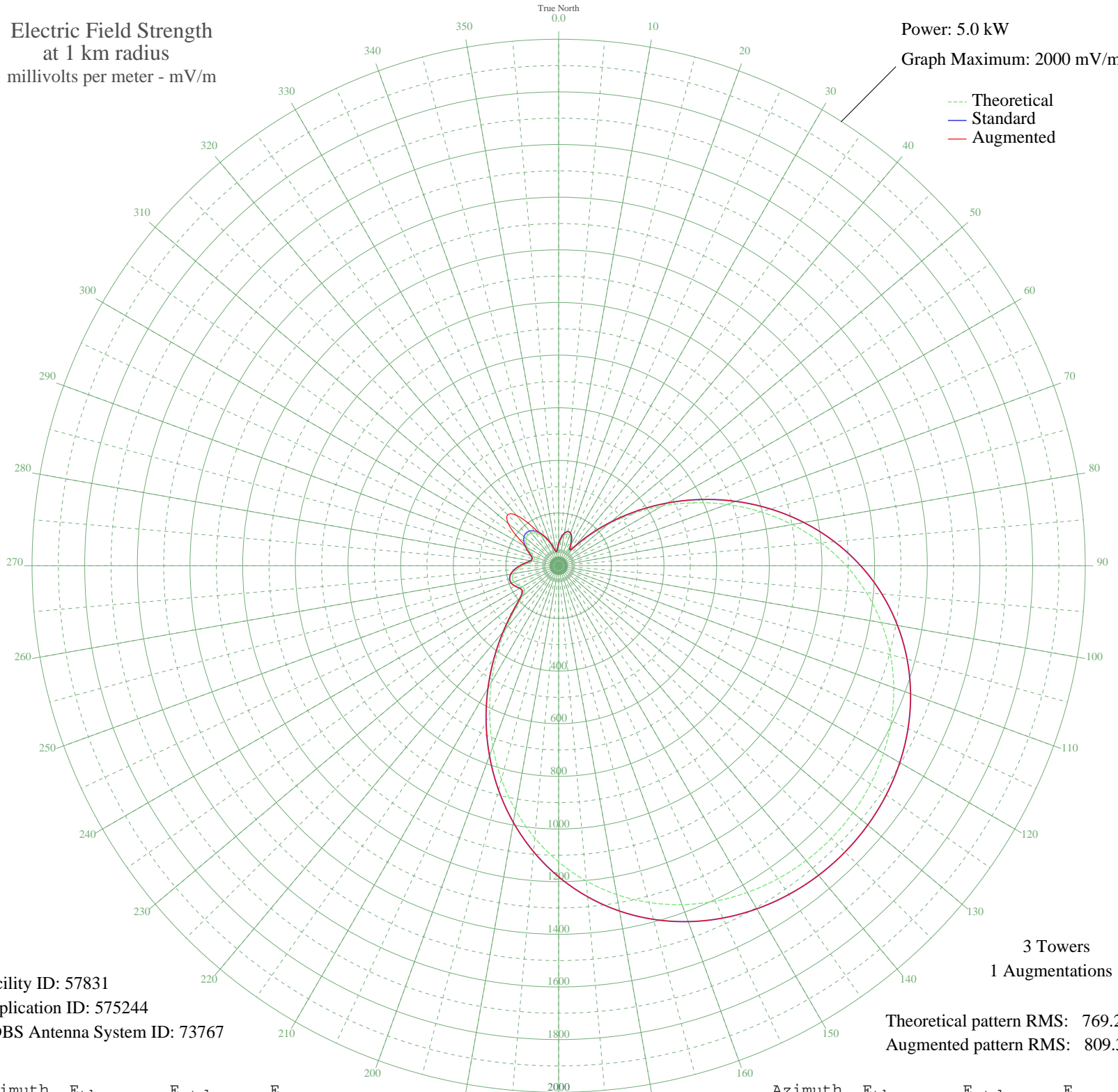


# WBTK RICHMOND, VA BML-20010712AGH 1380 kHz

Nighttime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 57831  
Application ID: 575244  
CDBS Antenna System ID: 73767

Theoretical pattern RMS: 769.27  
Augmented pattern RMS: 809.33

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	75.54	83.91	83.91
5	98.81	107.30	107.30
10	116.51	125.36	125.36
15	125.20	134.28	134.28
20	122.66	131.67	131.67
25	107.98	116.64	116.64
30	83.51	91.86	91.86
35	64.48	73.03	73.03
40	89.40	97.78	97.78
45	156.05	166.13	166.13
50	243.68	257.32	257.32
55	344.16	362.40	362.40
60	452.96	476.39	476.39
65	566.30	595.25	595.25
70	680.70	715.26	715.26
75	792.98	833.08	833.08
80	900.36	945.78	945.78
85	1000.60	1050.98	1050.98
90	1091.99	1146.91	1146.91
95	1173.42	1232.39	1232.39
100	1244.31	1306.81	1306.81
105	1304.52	1370.02	1370.02
110	1354.29	1422.27	1422.27
115	1394.07	1464.03	1464.03
120	1424.45	1495.92	1495.92
125	1446.00	1518.54	1518.54
130	1459.23	1532.44	1532.44
135	1464.51	1537.98	1537.98
140	1461.99	1535.33	1535.33
145	1451.61	1524.44	1524.44
150	1433.12	1505.03	1505.03
155	1406.09	1476.65	1476.65
160	1369.97	1438.73	1438.73
165	1324.20	1390.68	1390.68
170	1268.29	1331.98	1331.98
175	1201.94	1262.33	1262.33

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	1125.16	1181.74	1181.74
185	1038.42	1090.68	1090.68
190	942.67	990.18	990.18
195	839.50	881.90	881.90
200	731.10	768.14	768.14
205	620.30	651.89	651.89
210	510.56	536.79	536.79
215	406.01	427.19	427.19
220	311.64	328.36	328.36
225	233.84	247.05	247.05
230	180.75	191.75	191.75
235	158.39	168.54	168.54
240	160.71	170.95	170.95
245	172.14	182.81	182.81
250	180.89	191.90	191.90
255	181.83	192.88	192.88
260	173.91	184.65	184.65
265	158.33	168.49	168.49
270	137.82	147.28	147.28
275	116.55	125.40	125.40
280	100.34	108.85	108.85
285	95.34	103.78	103.78
290	103.12	111.68	111.68
295	118.79	127.70	127.70
300	136.23	145.64	145.64
305	151.21	161.11	161.11
310	161.23	171.49	171.49
315	164.93	175.33	175.33
320	161.67	171.95	171.95
325	151.38	161.29	161.29
330	134.50	143.86	143.86
335	112.05	120.79	120.79
340	85.91	94.26	94.26
345	60.01	68.70	68.70
350	44.49	54.15	54.15
355	52.86	61.89	61.89

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.

24 Oct 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission