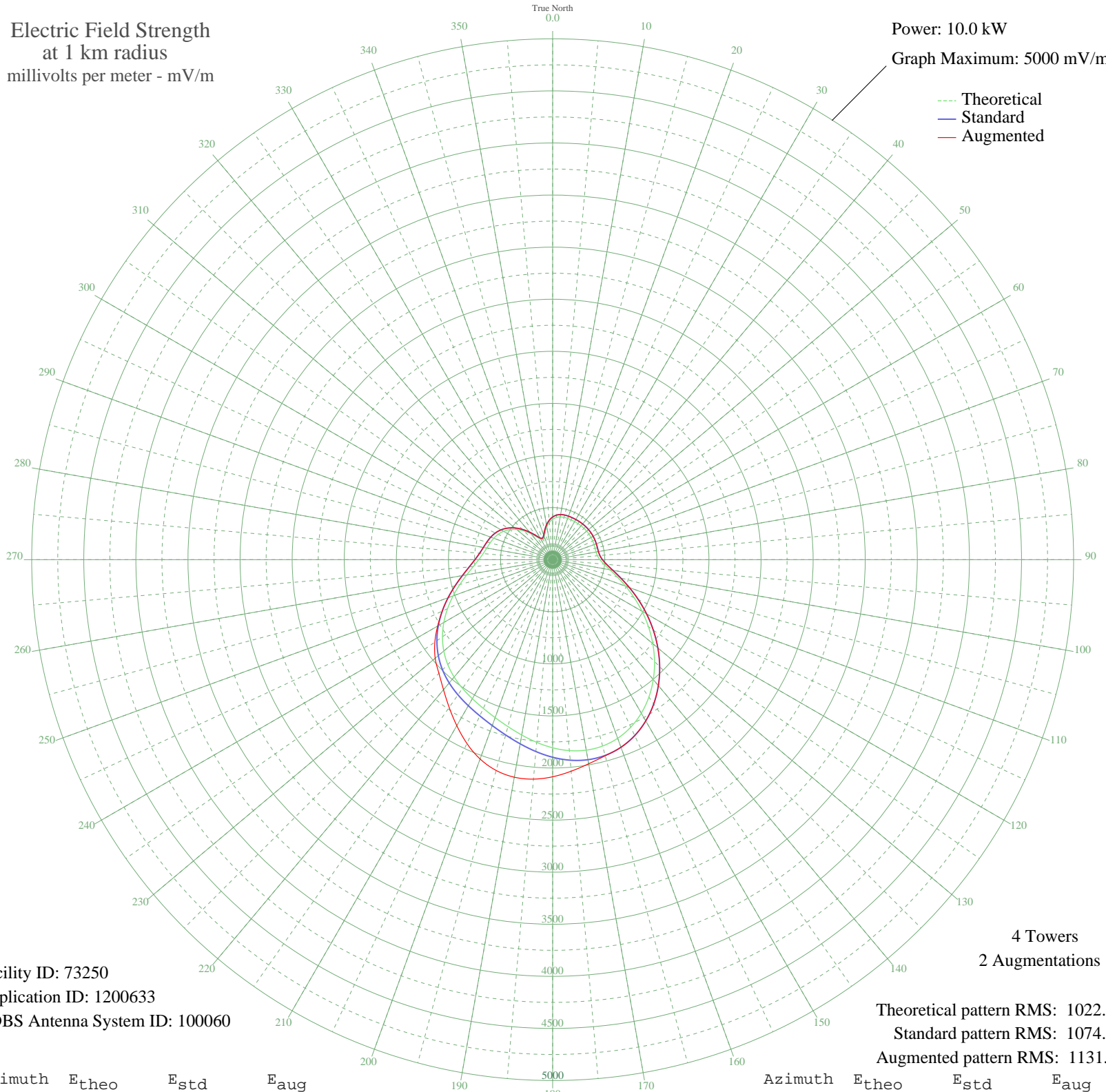


# WMAL WASHINGTON, DC BL-20070808AEI 630 kHz

Daytime

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

Power: 10.0 kW  
Graph Maximum: 5000 mV/m



Facility ID: 73250  
Application ID: 1200633  
CDBS Antenna System ID: 100060

4 Towers  
2 Augmentations

Theoretical pattern RMS: 1022.00  
Standard pattern RMS: 1074.00  
Augmented pattern RMS: 1131.00

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	387.90	409.30	409.30
5	406.76	429.01	429.01
10	416.79	439.49	439.49
15	420.68	443.56	443.56
20	421.43	444.35	444.35
25	421.44	444.36	444.36
30	421.97	444.91	444.91
35	423.13	446.13	446.13
40	424.47	447.52	447.52
45	425.49	448.59	448.59
50	425.99	449.11	449.11
55	425.99	449.12	449.12
60	425.54	448.64	448.64
65	424.53	447.59	447.59
70	423.01	445.99	445.99
75	421.77	444.70	444.70
80	423.19	446.18	446.18
85	431.68	455.07	455.07
90	453.31	477.70	477.70
95	493.94	520.22	520.22
100	556.85	586.09	586.09
105	641.68	674.98	674.98
110	745.29	783.60	783.60
115	863.18	907.24	907.24
120	990.50	1040.81	1040.81
125	1122.51	1179.33	1179.33
130	1254.72	1318.08	1318.08
135	1382.81	1452.51	1452.51
140	1502.65	1578.30	1578.30
145	1610.26	1691.25	1691.25
150	1701.91	1787.46	1787.46
155	1774.32	1863.48	1863.48
160	1824.96	1916.64	1916.64
165	1852.42	1945.46	1949.12
170	1856.81	1950.07	1989.90
175	1840.09	1932.52	2038.67

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	1806.10	1896.84	2084.26
185	1760.36	1848.82	2114.84
190	1709.25	1795.17	2120.53
195	1658.88	1742.30	2095.00
200	1613.63	1694.79	2036.25
205	1575.00	1654.24	1947.03
210	1541.28	1618.85	1840.17
215	1508.25	1584.18	1731.34
220	1470.61	1544.67	1629.77
225	1423.55	1495.27	1543.62
230	1363.94	1432.71	1471.70
235	1290.94	1356.09	1380.34
240	1206.04	1266.98	1274.63
245	1112.76	1169.10	1169.10
250	1016.18	1067.75	1067.75
255	922.20	969.15	969.15
260	836.77	879.54	879.54
265	764.84	804.10	804.10
270	709.16	745.72	745.72
275	669.34	703.97	703.97
280	641.83	675.14	675.14
285	621.04	653.34	653.34
290	600.91	632.25	632.25
295	576.31	606.47	606.47
300	543.67	572.28	572.28
305	501.24	527.85	527.85
310	449.10	473.29	473.29
315	389.25	410.71	410.71
320	326.02	344.70	344.70
325	267.16	283.41	283.41
330	225.19	239.88	239.88
335	214.19	228.51	228.51
340	235.96	251.03	251.03
345	276.33	292.95	292.95
350	320.27	338.71	338.71
355	358.81	378.92	378.92

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.

03 Jul 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission