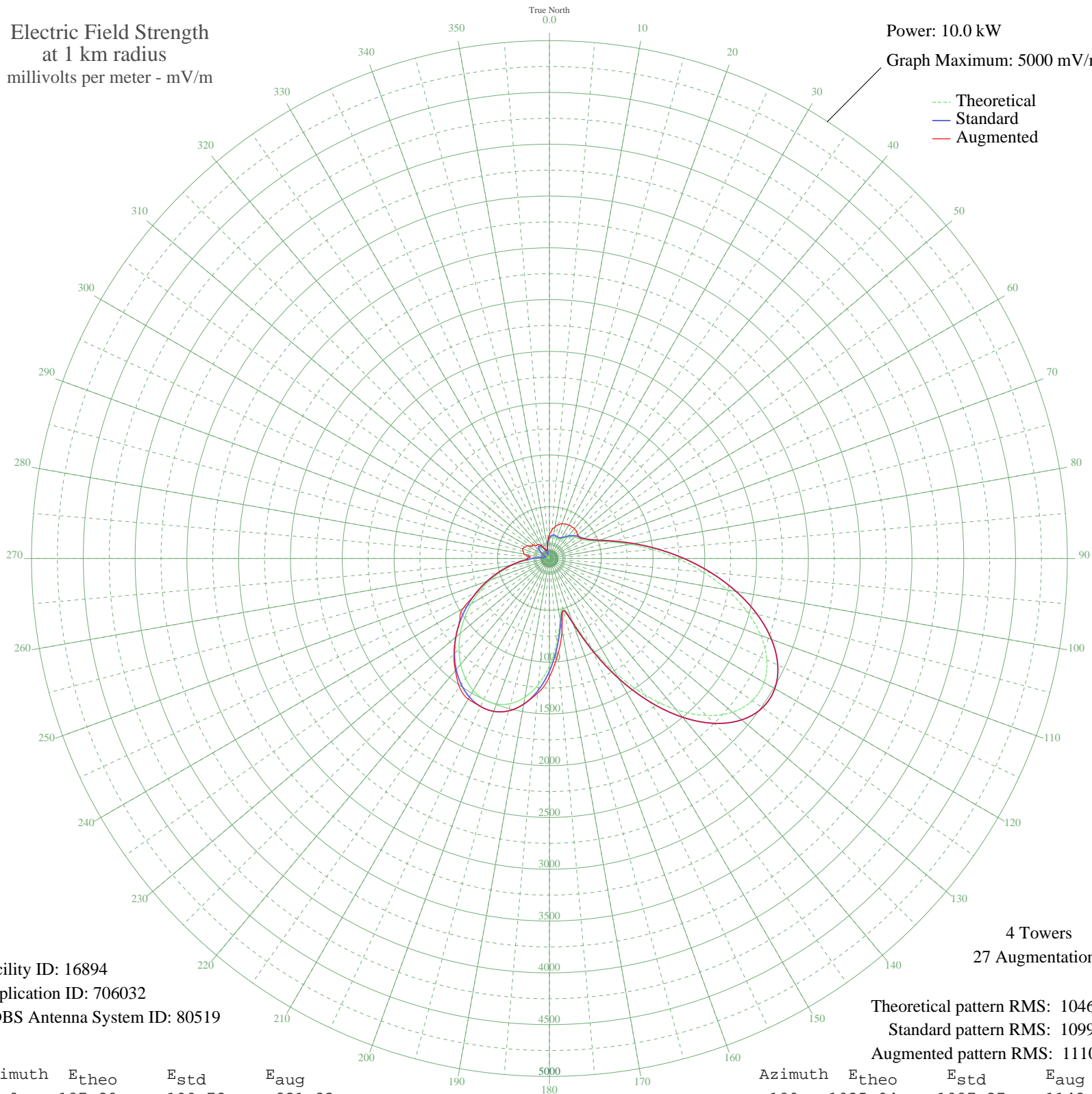


WNML KNOXVILLE, TN BL-20031112AJC 990 kHz

Nighttime

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

Power: 10.0 kW  
Graph Maximum: 5000 mV/m



Facility ID: 16894  
Application ID: 706032  
CDBS Antenna System ID: 80519

4 Towers  
27 Augmentations

Theoretical pattern RMS: 1046.00  
Standard pattern RMS: 1099.00  
Augmented pattern RMS: 1110.00

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	187.20	199.72	231.23
5	208.87	222.15	277.53
10	216.96	230.53	307.45
15	215.07	228.58	335.95
20	209.71	223.02	357.27
25	209.01	222.29	368.66
30	219.15	232.81	371.56
35	240.52	255.01	374.64
40	268.20	283.83	377.36
45	296.06	312.87	373.56
50	320.21	338.08	355.67
55	341.32	360.13	351.26
60	366.69	386.64	384.17
65	410.76	432.75	432.75
70	490.41	516.15	516.15
75	616.04	647.81	647.81
80	787.80	827.94	827.94
85	998.65	1049.18	1049.18
90	1237.56	1299.91	1299.91
95	1490.84	1565.78	1565.78
100	1742.69	1830.16	1830.16
105	1975.84	2074.93	2074.93
110	2172.59	2281.49	2281.49
115	2316.21	2432.28	2432.28
120	2392.48	2512.35	2512.35
125	2391.22	2511.03	2511.03
130	2307.60	2423.24	2423.24
135	2142.92	2250.34	2250.34
140	1904.99	2000.55	2000.55
145	1608.06	1688.83	1688.83
150	1273.03	1337.15	1337.15
155	930.04	977.19	977.19
160	631.98	664.53	664.53
165	492.46	518.29	518.29
170	597.01	627.86	698.41
175	814.84	856.31	931.01

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.

20 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	1035.04	1087.37	1142.63
185	1220.26	1281.77	1305.49
190	1359.11	1427.50	1427.50
195	1449.79	1522.69	1522.69
200	1495.08	1570.23	1570.23
205	1500.03	1575.43	1575.43
210	1470.65	1544.58	1567.35
215	1412.99	1484.07	1514.80
220	1332.69	1399.77	1412.12
225	1234.62	1296.84	1303.00
230	1122.96	1179.64	1179.64
235	1001.27	1051.93	1056.30
240	872.79	917.11	963.52
245	740.72	778.56	778.56
250	608.49	639.89	639.89
255	479.92	505.16	505.16
260	359.24	378.86	378.86
265	250.92	265.83	265.83
270	159.30	170.96	212.60
275	88.06	99.00	183.27
280	39.55	54.56	250.08
285	13.08	37.95	260.56
290	1.54	35.42	273.59
295	21.16	41.78	260.07
300	50.37	63.63	250.37
305	84.21	95.23	207.15
310	115.61	126.44	206.10
315	137.75	148.90	175.42
320	145.29	156.60	176.72
325	135.26	146.36	164.19
330	107.45	118.24	135.61
335	64.38	76.30	103.05
340	10.78	37.14	83.01
345	47.27	60.95	89.73
350	103.23	114.02	107.17
355	151.31	162.76	177.03