

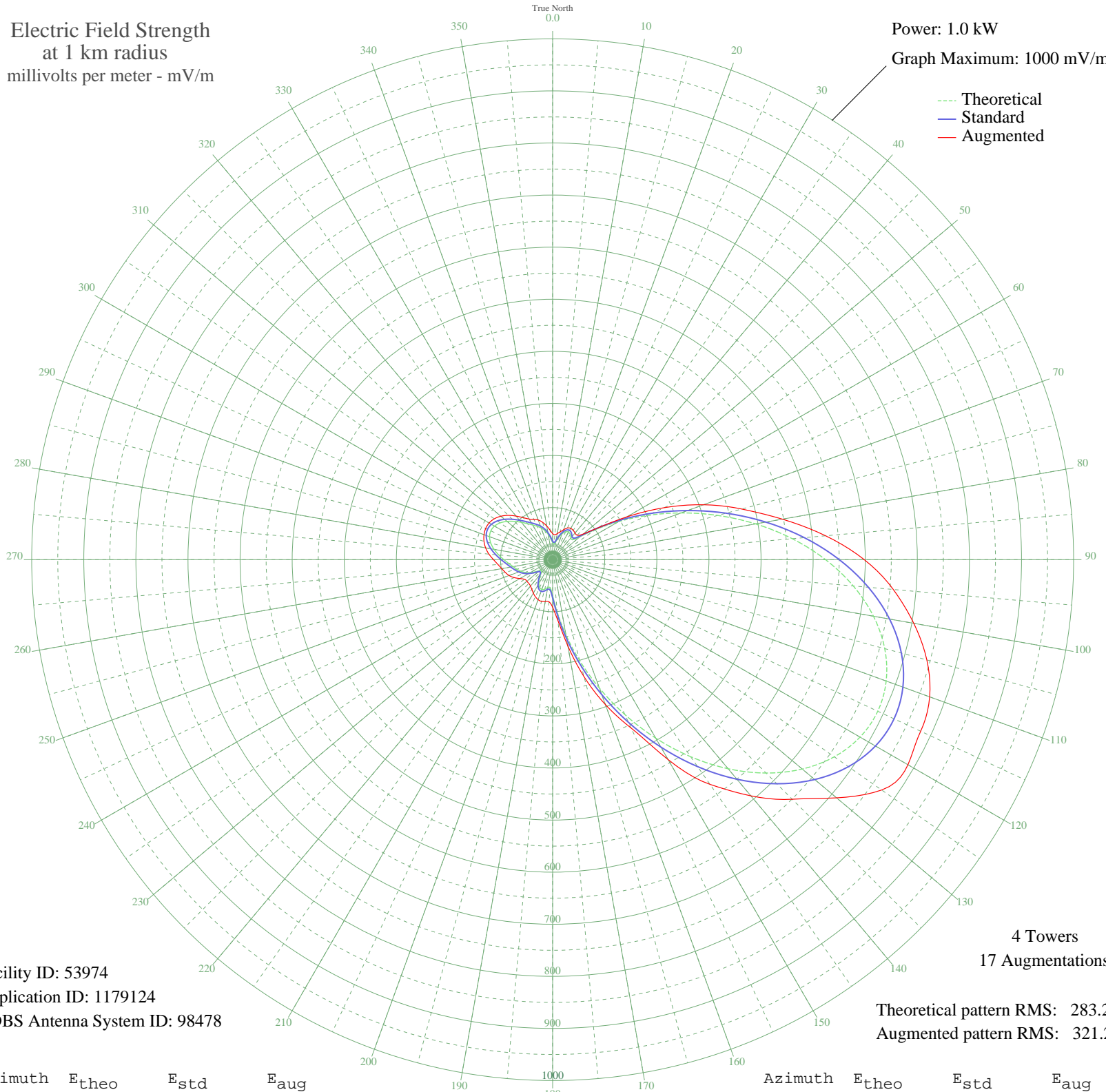
WFNZ CHARLOTTE, NC BL-20070327AES 610 kHz

Nighttime

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

Power: 1.0 kW

Graph Maximum: 1000 mV/m



--- Theoretical  
— Standard  
— Augmented

4 Towers  
17 Augmentations

Facility ID: 53974  
Application ID: 1179124  
CDBS Antenna System ID: 98478

Theoretical pattern RMS: 283.24  
Augmented pattern RMS: 321.25

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	32.28	35.48	50.03
5	29.80	33.01	47.85
10	34.82	38.03	50.68
15	43.85	47.22	55.17
20	52.76	56.38	61.07
25	58.97	62.81	67.02
30	61.09	65.00	69.31
35	58.87	62.70	68.80
40	54.37	58.05	66.72
45	54.43	58.11	66.41
50	69.17	73.38	76.49
55	101.06	106.63	106.70
60	146.14	153.80	164.08
65	200.80	211.11	236.05
70	262.32	275.63	308.25
75	328.11	344.68	375.65
80	395.52	415.43	447.78
85	461.74	484.94	525.99
90	523.93	550.23	598.17
95	579.31	608.37	656.35
100	625.36	656.71	703.89
105	659.91	692.99	743.57
110	681.33	715.48	770.10
115	688.59	723.10	779.44
120	681.34	715.48	787.46
125	659.93	693.00	770.99
130	625.38	656.74	711.42
135	579.35	608.41	650.50
140	523.98	550.28	591.91
145	461.82	485.02	526.64
150	395.62	415.53	443.26
155	328.24	344.81	356.86
160	262.47	275.79	296.12
165	200.98	211.29	232.59
170	146.34	154.01	168.26
175	101.27	106.85	117.80

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	69.33	73.55	91.44
185	54.47	58.15	81.24
190	54.26	57.94	81.09
195	58.66	62.49	82.80
200	60.83	64.73	81.68
205	58.69	62.51	78.46
210	52.47	56.08	74.13
215	43.59	46.96	69.66
220	34.67	37.88	66.20
225	29.87	33.07	64.65
230	32.57	35.77	64.50
235	40.54	43.84	65.76
240	49.75	53.29	72.55
245	58.08	61.88	81.46
250	64.99	69.04	88.97
255	70.97	75.26	94.13
260	77.11	81.65	99.20
265	84.51	89.35	105.47
270	93.60	98.84	113.51
275	103.91	109.61	122.80
280	114.21	120.38	130.68
285	122.98	129.55	136.46
290	128.86	135.71	140.20
295	130.94	137.89	141.88
300	128.89	135.74	140.83
305	123.03	129.60	136.74
310	114.26	120.44	129.73
315	103.95	109.65	120.24
320	93.59	98.83	109.17
325	84.42	89.26	98.43
330	76.94	81.47	90.04
335	70.71	74.98	85.27
340	64.65	68.69	81.02
345	57.69	61.47	74.19
350	49.34	52.86	65.65
355	40.15	43.44	56.89

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.

06 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission