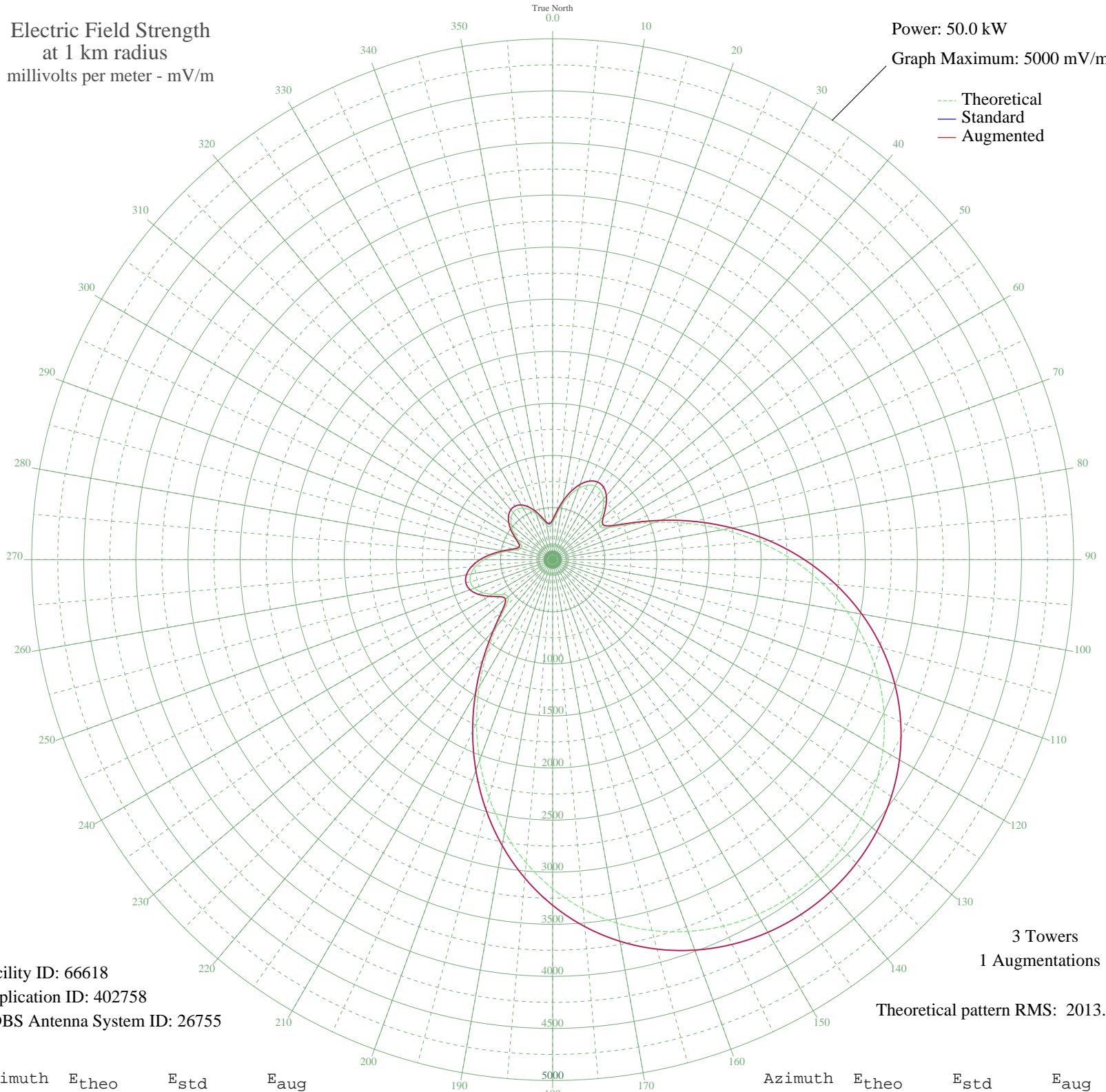


# WKVL KNOXVILLE, TN BL-- 850 kHz

Daytime

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

Power: 50.0 kW  
Graph Maximum: 5000 mV/m



--- Theoretical  
— Standard  
— Augmented

Facility ID: 66618  
Application ID: 402758  
CDBS Antenna System ID: 26755

3 Towers  
1 Augmentations

Theoretical pattern RMS: 2013.29

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	353.20	379.45	385.78
5	435.46	464.22	468.13
10	538.14	570.73	572.65
15	640.25	677.04	677.72
20	727.22	767.79	767.88
25	788.45	831.75	831.75
30	816.31	860.88	860.88
35	806.46	850.58	850.58
40	759.13	801.12	801.12
45	682.25	720.85	720.85
50	598.36	633.39	633.39
55	555.56	588.84	588.84
60	615.33	651.07	651.07
65	791.24	834.67	834.67
70	1046.74	1102.00	1102.00
75	1345.72	1415.28	1415.28
80	1664.36	1749.42	1749.42
85	1986.45	2087.32	2087.32
90	2300.16	2416.50	2416.50
95	2596.59	2727.60	2727.60
100	2869.27	3013.81	3013.81
105	3113.83	3270.50	3270.50
110	3327.63	3494.93	3494.93
115	3509.51	3685.86	3685.86
120	3659.39	3843.20	3843.20
125	3777.93	3967.64	3967.64
130	3866.15	4060.25	4060.25
135	3925.13	4122.17	4122.17
140	3955.74	4154.31	4154.31
145	3958.52	4157.22	4157.22
150	3933.50	4130.95	4130.95
155	3880.26	4075.06	4075.06
160	3797.97	3988.68	3988.68
165	3685.58	3870.69	3870.69
170	3542.03	3720.00	3720.00
175	3366.57	3535.81	3535.81

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	3159.11	3318.03	3318.03
185	2920.55	3067.62	3067.62
190	2653.20	2787.01	2787.01
195	2361.07	2480.42	2480.42
200	2050.19	2154.20	2154.20
205	1728.93	1817.15	1817.15
210	1408.48	1481.08	1481.08
215	1103.97	1161.95	1161.95
220	837.33	882.85	882.85
225	642.06	678.93	678.93
230	557.78	591.15	591.15
235	584.46	618.91	618.91
240	664.93	702.78	702.78
245	745.67	787.06	787.06
250	799.88	843.70	843.70
255	817.43	862.05	862.05
260	796.88	840.57	840.57
265	741.81	783.03	783.03
270	659.24	696.84	696.84
275	559.15	592.57	592.57
280	455.15	484.60	484.60
285	366.74	393.36	393.36
290	320.05	345.51	345.51
295	331.65	357.37	357.37
300	385.98	413.15	413.15
305	454.38	483.81	483.81
310	517.34	549.11	549.11
315	564.46	598.10	598.10
320	590.40	625.10	625.10
325	592.80	627.60	627.65
330	571.46	605.38	605.97
335	528.26	560.45	562.17
340	467.84	497.75	501.11
345	399.33	426.91	432.31
350	340.06	365.98	373.31
355	317.72	343.13	351.05

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