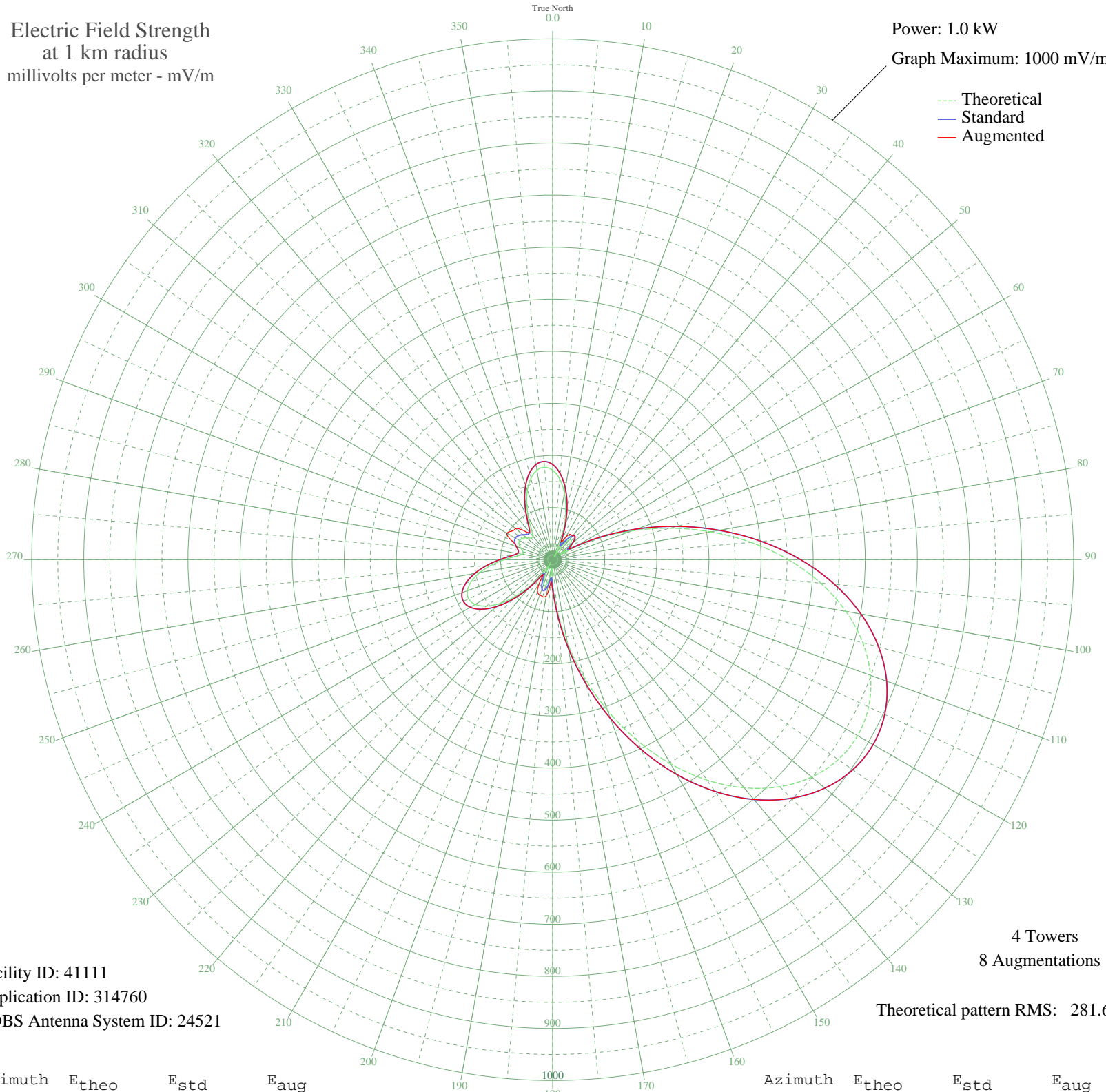


# WVBE ROANOKE, VA BL-- 610 kHz

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

Facility ID: 41111  
Application ID: 314760  
CDBS Antenna System ID: 24521

4 Towers  
8 Augmentations

Theoretical pattern RMS: 281.64

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	171.70	182.69	182.69
5	155.34	165.75	165.75
10	129.88	139.52	139.52
15	97.42	106.46	106.46
20	61.02	70.53	70.53
25	24.60	39.20	39.83
30	10.86	31.61	48.81
35	35.26	47.33	59.31
40	49.74	59.98	60.11
45	50.96	61.09	61.09
50	37.91	49.54	51.02
55	16.68	34.30	38.38
60	41.86	52.93	52.93
65	96.19	105.21	105.21
70	161.38	171.99	171.99
75	233.18	246.60	246.60
80	307.91	324.64	324.64
85	382.09	402.28	402.28
90	452.56	476.10	476.10
95	516.53	543.16	543.16
100	571.75	601.06	601.06
105	616.40	647.89	647.89
110	649.18	682.28	682.28
115	669.20	703.27	703.27
120	675.92	710.33	710.33
125	669.20	703.27	703.27
130	649.18	682.28	682.28
135	616.40	647.89	647.89
140	571.75	601.06	601.06
145	516.53	543.16	543.16
150	452.56	476.10	476.10
155	382.09	402.28	402.28
160	307.91	324.64	324.64
165	233.18	246.60	246.60
170	161.38	171.99	171.99
175	96.19	105.21	105.21

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	41.86	52.93	59.50
185	16.68	34.30	44.78
190	37.91	49.54	69.91
195	50.96	61.09	73.84
200	49.74	59.98	71.86
205	35.26	47.33	68.70
210	10.86	31.61	47.54
215	24.60	39.20	39.20
220	61.02	70.53	70.53
225	97.42	106.46	106.46
230	129.88	139.52	139.52
235	155.34	165.75	165.75
240	171.70	182.69	182.69
245	177.97	189.18	189.18
250	174.20	185.27	185.27
255	161.48	172.09	172.09
260	141.73	151.71	151.71
265	117.66	127.02	127.02
270	92.74	101.74	101.74
275	71.48	80.64	80.64
280	59.36	68.95	68.95
285	58.84	68.46	68.46
290	65.03	74.38	74.38
295	71.21	80.38	87.09
300	73.63	82.74	101.21
305	71.21	80.38	95.46
310	65.03	74.38	92.68
315	58.84	68.46	78.84
320	59.36	68.95	68.95
325	71.48	80.64	80.64
330	92.74	101.74	101.74
335	117.66	127.02	127.02
340	141.73	151.71	151.71
345	161.48	172.09	172.09
350	174.20	185.27	185.27
355	177.97	189.18	189.18

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