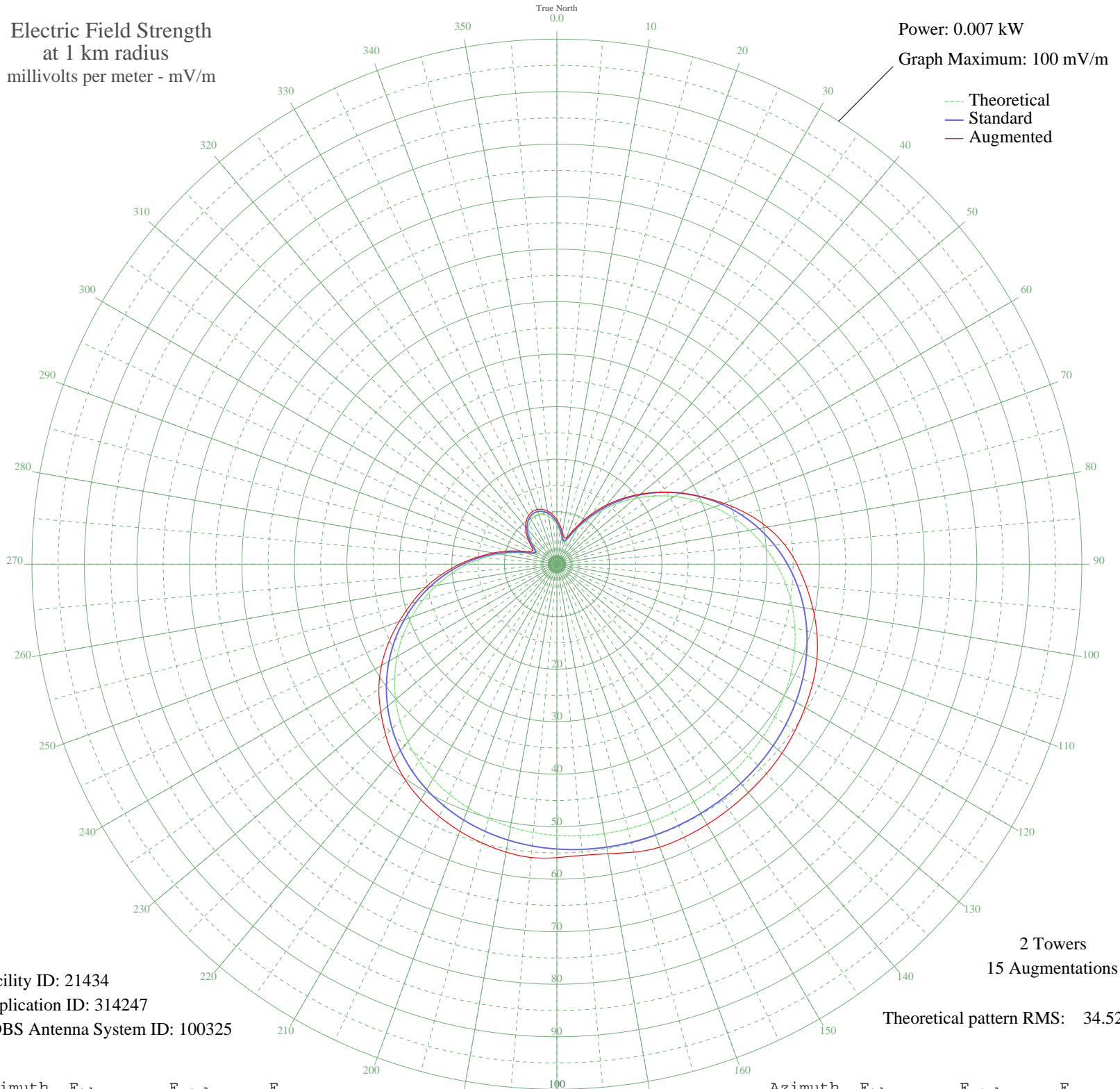


# WREJ RICHMOND, VA BL-- 1540 kHz

Nighttime

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

Power: 0.007 kW  
Graph Maximum: 100 mV/m



Facility ID: 21434  
Application ID: 314247  
CDBS Antenna System ID: 100325

2 Towers  
15 Augmentations  
Theoretical pattern RMS: 34.52

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	7.54	7.98	8.47
5	6.37	6.76	7.29
10	5.20	5.55	6.09
15	4.39	4.71	5.27
20	4.54	4.87	5.41
25	5.86	6.23	6.83
30	7.98	8.43	9.10
35	10.55	11.12	11.80
40	13.39	14.10	14.70
45	16.41	17.26	17.69
50	19.52	20.52	20.76
55	22.66	23.82	23.90
60	25.79	27.10	27.11
65	28.86	30.31	30.36
70	31.81	33.41	33.85
75	34.61	36.35	37.39
80	37.23	39.10	40.68
85	39.64	41.63	43.49
90	41.82	43.92	45.72
95	43.77	45.97	47.67
100	45.47	47.75	49.56
105	46.94	49.29	51.29
110	48.18	50.59	52.72
115	49.20	51.67	53.76
120	50.03	52.55	54.59
125	50.70	53.24	55.34
130	51.21	53.78	55.98
135	51.60	54.19	56.43
140	51.88	54.48	56.74
145	52.07	54.69	57.02
150	52.20	54.82	57.24
155	52.26	54.88	57.38
160	52.26	54.89	57.35
165	52.21	54.83	56.78
170	52.10	54.72	55.99
175	51.92	54.53	55.67

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.

15 Mar 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	51.66	54.25	55.88
185	51.30	53.87	56.08
190	50.81	53.36	55.68
195	50.18	52.70	55.00
200	49.38	51.86	54.11
205	48.40	50.83	53.03
210	47.20	49.57	51.80
215	45.78	48.08	50.26
220	44.13	46.34	48.32
225	42.23	44.35	46.10
230	40.09	42.11	43.79
235	37.73	39.63	41.40
240	35.15	36.92	38.58
245	32.38	34.02	35.37
250	29.46	30.95	31.97
255	26.41	27.75	28.64
260	23.29	24.48	25.40
265	20.15	21.18	21.97
270	17.02	17.90	18.52
275	13.99	14.72	15.23
280	11.10	11.70	12.30
285	8.46	8.94	9.64
290	6.23	6.62	7.32
295	4.72	5.05	5.70
300	4.32	4.65	5.29
305	4.99	5.33	5.92
310	6.13	6.51	7.03
315	7.32	7.75	8.23
320	8.37	8.84	9.29
325	9.20	9.71	10.13
330	9.78	10.32	10.73
335	10.09	10.64	11.05
340	10.12	10.67	11.08
345	9.87	10.41	10.82
350	9.34	9.86	10.27
355	8.55	9.04	9.48