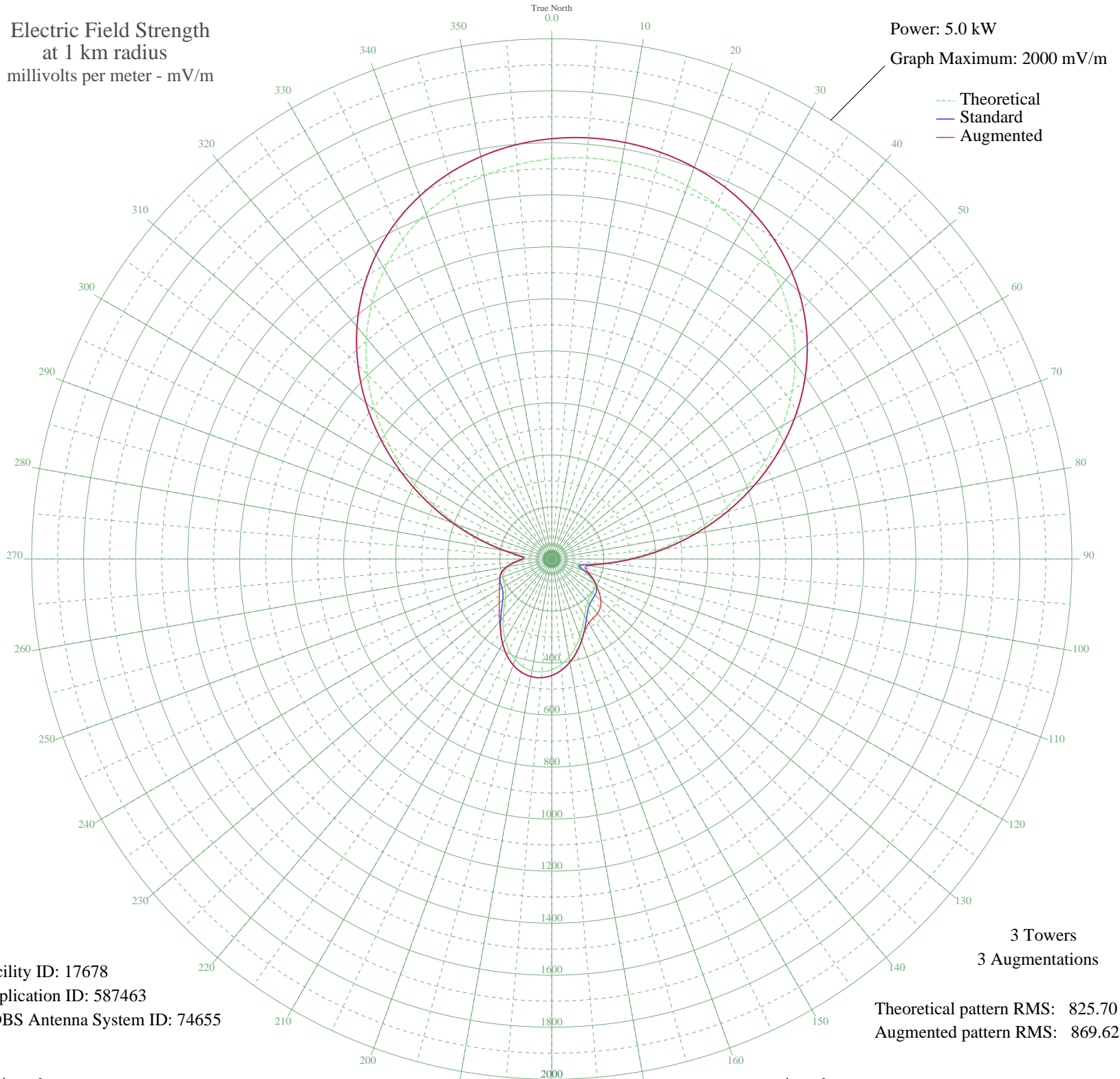


# KOTA RAPID CITY, SD BL-20011026ABG 1380 kHz

Nighttime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 17678  
Application ID: 587463  
CDBS Antenna System ID: 74655

Theoretical pattern RMS: 825.70  
Augmented pattern RMS: 869.62

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	1538.71	1615.89	1615.89
5	1547.46	1625.08	1625.08
10	1548.25	1625.90	1625.90
15	1541.11	1618.41	1618.41
20	1525.77	1602.31	1602.31
25	1501.67	1577.00	1577.00
30	1468.03	1541.69	1541.69
35	1423.97	1495.44	1495.44
40	1368.60	1437.31	1437.31
45	1301.21	1366.56	1366.56
50	1221.38	1282.75	1282.75
55	1129.19	1185.99	1185.99
60	1025.37	1077.00	1077.00
65	911.35	957.33	957.33
70	789.36	829.30	829.30
75	662.43	696.12	696.12
80	534.29	561.71	561.71
85	409.35	430.73	430.73
90	292.77	308.69	308.79
95	191.47	203.00	207.95
100	118.75	127.82	145.77
105	100.02	108.71	132.82
110	127.26	136.55	149.99
115	160.65	171.01	173.84
120	185.06	196.33	196.70
125	198.75	210.57	221.72
130	204.62	216.68	245.92
135	207.83	220.03	263.77
140	214.35	226.82	273.31
145	228.77	241.84	277.60
150	252.36	266.46	284.38
155	283.12	298.61	302.32
160	317.43	334.49	334.49
165	351.57	370.21	370.21
170	382.44	402.54	402.54
175	407.71	429.01	429.01

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.

27 Jun 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	425.72	447.89	447.89
185	435.44	458.07	458.07
190	436.33	459.01	459.01
195	428.35	450.65	450.65
200	411.93	433.44	433.44
205	388.00	408.37	408.37
210	358.09	377.04	377.04
215	324.38	341.76	343.03
220	289.83	305.61	311.84
225	258.04	272.40	285.37
230	232.78	246.03	263.79
235	216.51	229.06	246.40
240	208.69	220.92	232.54
245	205.28	217.37	221.65
250	200.41	212.29	212.43
255	188.60	200.02	200.02
260	166.41	176.98	176.98
265	134.27	143.76	143.76
270	103.27	112.02	112.02
275	109.89	118.76	118.76
280	173.99	184.84	184.84
285	271.01	285.94	285.94
290	385.18	405.42	405.42
295	508.90	535.08	535.08
300	636.77	669.20	669.20
305	764.26	802.97	802.97
310	887.50	932.30	932.30
315	1003.32	1053.86	1053.86
320	1109.33	1165.13	1165.13
325	1203.92	1264.42	1264.42
330	1286.24	1350.85	1350.85
335	1356.11	1424.19	1424.19
340	1413.83	1484.79	1484.79
345	1460.09	1533.35	1533.35
350	1495.73	1570.77	1570.77
355	1521.68	1598.01	1598.01