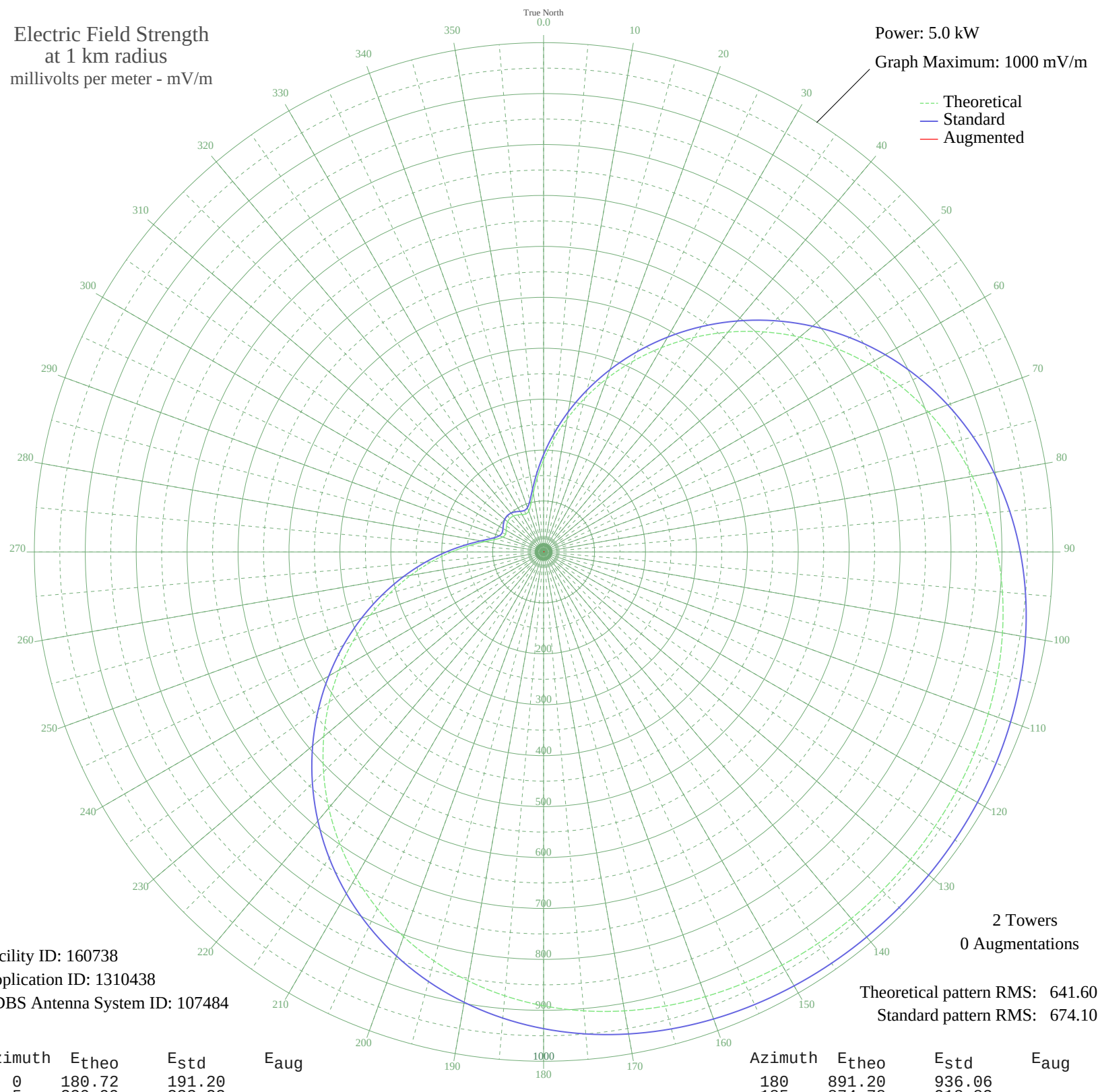
KMCA HILO, HI BNP-20041025AEV 1450 kHz

Unlimited Time

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



Power: 5.0 kW

Graph Maximum: 1000 mV/m

Theoretical
Standard
Augmented

2 Towers
0 Augmentations

Facility ID: 160738
Application ID: 1310438
CDBS Antenna System ID: 107484

Theoretical pattern RMS: 641.60
Standard pattern RMS: 674.10

Azimuth	E_{theo}	E_{std}	E_{aug}
0	180.72	191.20	
5	220.99	233.23	
10	265.24	279.49	
15	312.47	328.93	
20	361.80	380.61	
25	412.36	433.62	
30	463.34	487.08	
35	513.95	540.16	
40	563.42	592.06	
45	611.08	642.06	
50	656.29	689.50	
55	698.54	733.84	
60	737.41	774.63	
65	772.59	811.56	
70	803.92	844.45	
75	831.34	873.23	
80	854.91	897.96	
85	874.78	918.82	
90	891.20	936.06	
95	904.49	950.01	
100	915.00	961.03	
105	923.10	969.54	
110	929.18	975.92	
115	933.60	980.56	
120	936.67	983.78	
125	938.66	985.88	
130	939.78	987.04	
135	940.13	987.42	
140	939.78	987.04	
145	938.66	985.88	
150	936.67	983.78	
155	933.60	980.56	
160	929.18	975.92	
165	923.10	969.54	
170	915.00	961.03	
175	904.49	950.01	

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.

1 Apr 2015

Prepared by Audio Division, Media Bureau
Federal Communications Commission

Azimuth	E_{theo}	E_{std}	E_{aug}
180	891.20	936.06	
185	874.78	918.82	
190	854.91	897.96	
195	831.34	873.23	
200	803.93	844.45	
205	772.59	811.56	
210	737.41	774.63	
215	698.54	733.84	
220	656.29	689.50	
225	611.08	642.06	
230	563.42	592.06	
235	513.95	540.16	
240	463.34	487.08	
245	412.36	433.62	
250	361.80	380.61	
255	312.47	328.94	
260	265.24	279.49	
265	220.99	233.23	
270	180.72	191.20	
275	145.57	154.64	
280	116.97	125.05	
285	96.54	104.05	
290	85.35	92.65	
295	82.49	89.74	
300	84.83	92.11	
305	88.85	96.21	
310	92.12	99.53	
315	93.34	100.78	
320	92.12	99.53	
325	88.85	96.21	
330	84.83	92.11	
335	82.49	89.74	
340	85.35	92.65	
345	96.54	104.05	
350	116.97	125.05	
355	145.57	154.64	