

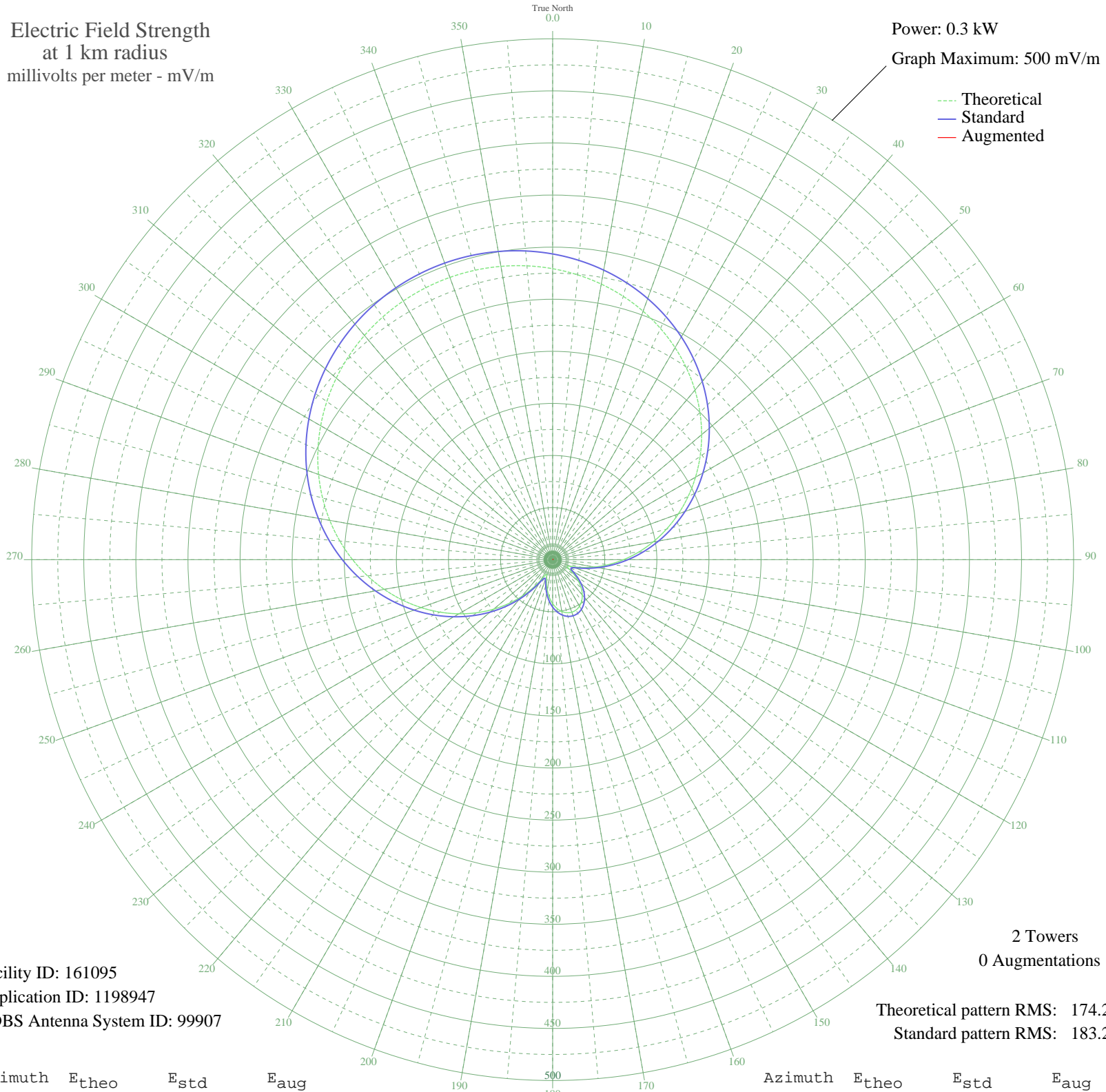
**KPWL NEWPORT, WA BMP-20070807AAW 1370 kHz**

**Nighttime**

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

Power: 0.3 kW  
Graph Maximum: 500 mV/m

--- Theoretical  
— Standard  
— Augmented



Facility ID: 161095  
Application ID: 1198947  
CDBS Antenna System ID: 99907

2 Towers  
0 Augmentations

Theoretical pattern RMS: 174.22  
Standard pattern RMS: 183.23

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	279.33	293.48	
5	274.49	288.41	
10	268.62	282.25	
15	261.72	275.01	
20	253.80	266.70	
25	244.88	257.34	
30	234.99	246.96	
35	224.16	235.60	
40	212.45	223.32	
45	199.92	210.18	
50	186.66	196.27	
55	172.75	181.69	
60	158.31	166.56	
65	143.47	151.01	
70	128.34	135.17	
75	113.08	119.20	
80	97.84	103.27	
85	82.79	87.56	
90	68.10	72.27	
95	53.98	57.64	
100	40.71	44.01	
105	28.77	31.98	
110	19.33	22.85	
115	15.33	19.21	
120	18.59	22.17	
125	25.26	28.53	
130	32.33	35.53	
135	38.77	42.05	
140	44.22	47.61	
145	48.51	52.00	
150	51.54	55.13	
155	53.27	56.91	
160	53.67	57.32	
165	52.73	56.36	
170	50.48	54.04	
175	46.94	50.39	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	42.18	45.51	
185	36.30	39.54	
190	29.54	32.75	
195	22.44	25.80	
200	16.61	20.35	
205	16.02	19.83	
210	22.67	26.01	
215	33.34	36.54	
220	45.89	49.32	
225	59.54	63.40	
230	73.92	78.32	
235	88.78	93.81	
240	103.93	109.63	
245	119.19	125.59	
250	134.42	141.53	
255	149.45	157.27	
260	164.15	172.67	
265	178.38	187.60	
270	192.05	201.92	
275	205.03	215.53	
280	217.24	228.34	
285	228.60	240.26	
290	239.06	251.23	
295	248.57	261.21	
300	257.09	270.15	
305	264.61	278.04	
310	271.09	284.84	
315	276.55	290.57	
320	280.97	295.21	
325	284.37	298.77	
330	286.73	301.24	
335	288.06	302.64	
340	288.37	302.97	
345	287.65	302.21	
350	285.90	300.38	
355	283.13	297.47	

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.

14 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission