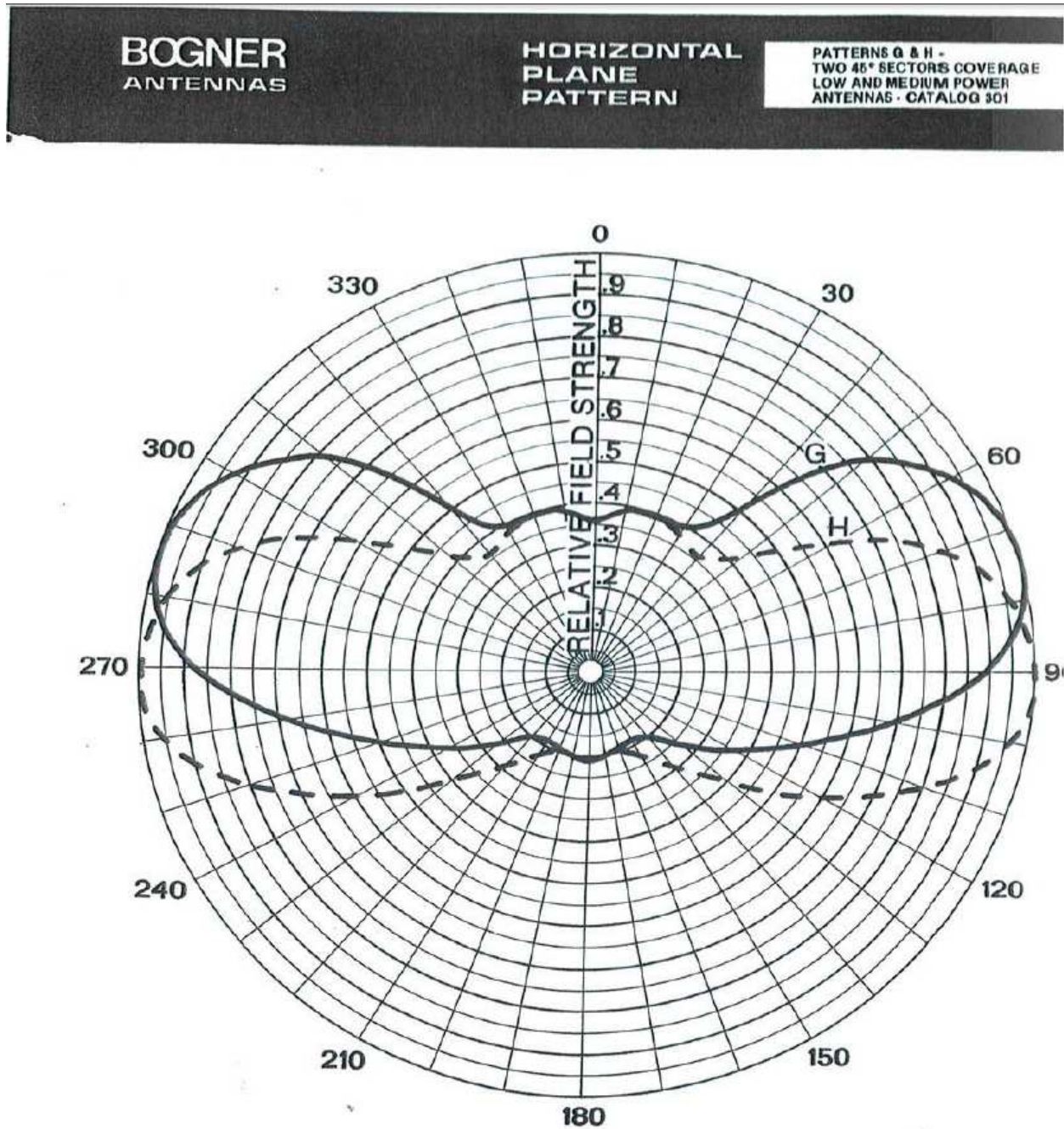


KQSL Transmitter at Laytonville, CA
Site ID 1 (Currently existing Facility)
73.625 Antenna information

KQSL utilizes Pattern G of the Bogner Antenna Pattern below which is mounted such that 0 degrees on the graph corresponds to 55 degrees true. The main lobes occur at 130 degrees true and 340 degrees true.



Antenna Azimuth Pattern
Site ID 1, Laytonville, CA
Channel 8

<u>Azimuth (° T)</u>	<u>Relative Field</u>	<u>ERP (dbk)</u>	<u>Azimuth (° T)</u>	<u>Relative Field</u>	<u>ERP (dbk)</u>
0	0.860	12.8	180	0.320	4.3
10	0.660	10.5	190	0.230	1.4
20	0.425	6.7	200	0.190	-0.3
30	0.395	6.1	210	0.190	-0.3
40	0.395	6.1	220	0.200	0.2
50	0.370	5.5	230	0.210	0.6
60	0.370	5.5	240	0.210	0.6
70	0.395	6.1	250	0.200	0.2
80	0.395	6.1	260	0.190	-0.3
90	0.425	6.7	270	0.190	-0.3
100	0.660	10.5	280	0.230	1.4
110	0.860	12.8	290	0.320	4.3
120	0.970	13.9	300	0.440	7.0
130	1.000	14.2	310	0.600	9.7
140	0.955	13.8	320	0.800	12.2
150	0.800	12.2	330	0.955	13.8
160	0.600	9.7	340	1.000	14.2
170	0.440	7.0	350	0.970	13.9

Operating Parameters KQSL
Site ID 1, Laytonville, CA
Channel 8

Transmitter Power Output:	1.3 kw
Transmission Line Efficiency:	93.3%
Antenna Power Gain – Main Lobe:	21.4
Effective Radiated Power – Main Lobe:	26.0 kw

Transmitter Make and Model:	Type-accepted
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Transmission Line Make and Model:	Andrew HJ8-50B
Size and Type:	3" air helax
Length:	50.3 meters

Antenna:

Make and Model:	Bogner B6VG-H
Orientation	55° T*
Beam Tilt	none
Radiation Center Above Ground:	51 meters
Radiation Center Above Mean Sea Level:	1326 meters

*line of symmetry; main lobes oriented at 130° T and 340° T

Site: KQSL Site 1

Coordinates: 39-41-37.5 N, 123-34-47.0 W

Freq: 183 MHz

ERP: 26.00 kW

Bearing	ERP kW	HAAT	DH	Distance	Lat	Lon
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0	19.23	718	660	122.95	40.799659	-123.579722
5	15.02	687	640	119.29	40.762547	-123.456267
10	11.33	704	640	116.96	40.729491	-123.338678
15	7.64	693	490	113.03	40.675219	-123.232803
20	4.70	674	740	108.36	40.608804	-123.140640
25	4.37	615	610	105.94	40.556179	-123.049689
30	4.06	582	540	104.11	40.503073	-122.963991
35	4.06	567	710	103.43	40.453712	-122.878489
40	4.06	613	580	105.26	40.416260	-122.780441
45	3.79	668	530	106.36	40.366832	-122.691904
50	3.56	734	740	107.49	40.311177	-122.608471
55	3.56	704	1030	106.77	40.240039	-122.549171
60	3.56	771	630	108.28	40.175523	-122.475786
65	3.79	719	710	107.69	40.097475	-122.432087
70	4.06	647	550	106.32	40.014929	-122.406378
75	4.06	582	590	104.11	39.930150	-122.400176
80	4.06	654	650	106.53	39.853662	-122.350520
85	4.37	675	1050	107.77	39.771468	-122.323299
90	4.70	679	770	108.50	39.686852	-122.311525
95	7.64	643	510	111.56	39.599071	-122.282355
100	11.33	654	610	115.35	39.506057	-122.255414
105	15.02	670	510	118.69	39.409785	-122.245010
110	19.23	674	660	121.48	39.312457	-122.252582
115	21.77	714	1220	124.23	39.214173	-122.272640
120	24.46	737	410	126.19	39.119338	-122.312759
125	25.23	720	360	126.08	39.037141	-122.383773
130	26.00	705	240	125.97	38.960052	-122.463468
135	24.82	683	260	124.69	38.896228	-122.560770
140	23.71	638	300	122.27	38.847732	-122.672066
145	20.00	612	310	119.18	38.812968	-122.790663
150	16.64	589	330	116.17	38.786877	-122.909473
155	12.74	583	300	113.50	38.767241	-123.026422
160	9.36	622	460	112.55	38.741593	-123.135821
165	7.03	717	450	112.93	38.712112	-123.242819
170	5.03	731	370	110.41	38.715569	-123.358726
175	3.75	757	340	108.45	38.721920	-123.470755
180	2.66	783	310	106.04	38.739990	-123.579722

Bearing	ERP kW	HAAT	DH	Distance	Lat	Lon
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185	1.97	810	270	104.00	38.761842	-123.684273
190	1.38	842	310	101.63	38.793319	-123.783379
195	1.15	877	290	100.77	38.817874	-123.880793
200	0.94	888	250	99.33	38.853524	-123.972101
205	0.94	934	330	100.07	38.876953	-124.068341
210	0.94	968	240	100.62	38.908553	-124.161205
215	0.99	949	230	100.74	38.949614	-124.247964
220	1.04	951	200	101.19	38.994130	-124.332406
225	1.09	882	260	100.46	39.051887	-124.402491
230	1.15	874	370	100.72	39.108003	-124.474048
235	1.15	930	260	101.64	39.165347	-124.545643
240	1.15	885	290	100.91	39.235523	-124.594509
245	1.09	892	240	100.63	39.306393	-124.639904
250	1.04	867	240	99.80	39.381609	-124.671080
255	0.99	913	170	100.16	39.455123	-124.706774
260	0.94	874	320	99.09	39.533417	-124.717837
265	0.94	862	290	98.88	39.610558	-124.729826
270	0.94	829	380	98.27	39.688092	-124.728338
275	1.15	785	210	99.00	39.765652	-124.733835
280	1.38	771	440	100.21	39.844537	-124.735843
285	1.97	770	510	103.19	39.928120	-124.748844
290	2.66	758	530	105.52	40.012557	-124.744197
295	3.75	750	490	108.31	40.099744	-124.733940
300	5.03	760	510	111.04	40.187639	-124.711938
305	7.03	757	490	113.86	40.275965	-124.679243
310	9.36	742	550	116.13	40.360468	-124.629837
315	12.74	754	310	119.47	40.449362	-124.578247
320	16.64	737	350	121.88	40.529877	-124.506818
325	20.00	764	300	124.55	40.608359	-124.426080
330	23.71	724	310	125.49	40.668870	-124.323736
335	24.82	707	510	125.51	40.715154	-124.209112
340	26.00	569	620	119.18	40.700038	-124.063283
345	25.23	513	680	115.57	40.697263	-123.934554
350	24.46	619	360	121.67	40.771182	-123.830628
355	21.77	728	610	124.63	40.810371	-123.708794