

KSMT(FM)
FM CHANNEL 271A
BRECKENRIDGE,CO

EXHIBIT E-4A
DIRECTIONAL ANTENNA
PATTERN TABULATION

KSMT (FM)
DA PATTERN NUMBER:
20060928D

'Azimuth'	'Field Value'	'dB Gain'
0	0.5248074	-5.600001
1	0.5133929	-5.791002
2	0.5019785	-5.986298
3	0.490564	-6.186086
4	0.4791496	-6.390578
5	0.4677351	-6.6
6	0.4677351	-6.6
7	0.4677351	-6.6
8	0.4677351	-6.6
9	0.4677351	-6.6
10	0.4677351	-6.6
11	0.4677351	-6.6
12	0.4677351	-6.6
13	0.4677351	-6.6
14	0.4677351	-6.6
15	0.4677351	-6.6
16	0.4617795	-6.711307
17	0.4558238	-6.824059
18	0.4498682	-6.938294
19	0.4439125	-7.054052
20	0.4379569	-7.171372
21	0.4284314	-7.362374
22	0.4189059	-7.55767
23	0.4093805	-7.757457
24	0.399855	-7.961949
25	0.3903295	-8.171371
26	0.38184	-8.362372
27	0.3733504	-8.557668
28	0.3648608	-8.757457
29	0.3563712	-8.961948
30	0.3478816	-9.171371
31	0.3549804	-8.995912
32	0.3620793	-8.823926
33	0.3691781	-8.655281
34	0.376277	-8.489847
35	0.3833758	-8.327506
36	0.3927316	-8.118084
37	0.4020874	-7.913591
38	0.4114431	-7.713804
39	0.4207989	-7.518508
40	0.4301547	-7.327507
41	0.440652	-7.118084
42	0.4511494	-6.913593
43	0.4616467	-6.713805
44	0.4721441	-6.518509
45	0.4826414	-6.327508
46	0.4944196	-6.118086
47	0.5061979	-5.913594
48	0.5179761	-5.713806
49	0.5297543	-5.51851

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50	0.5415325	-5.327509
51	0.5547479	-5.118087
52	0.5679633	-4.913595
53	0.5811787	-4.713807
54	0.5943941	-4.51851
55	0.6076095	-4.327509
56	0.6224374	-4.118087
57	0.6372653	-3.913595
58	0.6520932	-3.713807
59	0.6669211	-3.518511
60	0.681749	-3.32751
61	0.6983862	-3.118087
62	0.7150234	-2.913595
63	0.7316605	-2.713807
64	0.7482978	-2.518511
65	0.764935	-2.32751
66	0.7836022	-2.118087
67	0.8022695	-1.913595
68	0.8209367	-1.713807
69	0.839604	-1.51851
70	0.8582712	-1.327509
71	0.8792162	-1.118086
72	0.9001611	-0.9135947
73	0.9211062	-0.7138063
74	0.9420511	-0.5185106
75	0.9629961	-0.3275092
76	0.9703969	-0.2610122
77	0.9777977	-0.1950199
78	0.9851984	-0.1295257
79	0.9925992	-6.45E-02
80	1	0
81	1	0
82	1	0
83	1	0
84	1	0
85	1	0
86	1	0
87	1	0
88	1	0
89	1	0
90	1	0
91	1	0
92	1	0
93	1	0
94	1	0
95	1	0
96	1	0
97	1	0
98	1	0
99	1	0
100	1	0

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101	1	0
102	1	0
103	1	0
104	1	0
105	1	0
106	1	0
107	1	0
108	1	0
109	1	0
110	1	0
111	1	0
112	1	0
113	1	0
114	1	0
115	1	0
116	1	0
117	1	0
118	1	0
119	1	0
120	1	0
121	1	0
122	1	0
123	1	0
124	1	0
125	1	0
126	1	0
127	1	0
128	1	0
129	1	0
130	1	0
131	1	0
132	1	0
133	1	0
134	1	0
135	1	0
136	1	0
137	1	0
138	1	0
139	1	0
140	1	0
141	1	0
142	1	0
143	1	0
144	1	0
145	1	0
146	1	0
147	1	0
148	1	0
149	1	0
150	1	0
151	1	0

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152	1	0
153	1	0
154	1	0
155	1	0
156	1	0
157	1	0
158	1	0
159	1	0
160	1	0
161	1	0
162	1	0
163	1	0
164	1	0
165	1	0
166	1	0
167	1	0
168	1	0
169	1	0
170	1	0
171	1	0
172	1	0
173	1	0
174	1	0
175	1	0
176	1	0
177	1	0
178	1	0
179	1	0
180	1	0
181	1	0
182	1	0
183	1	0
184	1	0
185	1	0
186	1	0
187	1	0
188	1	0
189	1	0
190	1	0
191	1	0
192	1	0
193	1	0
194	1	0
195	1	0
196	1	0
197	1	0
198	1	0
199	1	0
200	1	0
201	1	0
202	1	0

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203	1	0
204	1	0
205	1	0
206	1	0
207	1	0
208	1	0
209	1	0
210	1	0
211	1	0
212	1	0
213	1	0
214	1	0
215	1	0
216	1	0
217	1	0
218	1	0
219	1	0
220	1	0
221	1	0
222	1	0
223	1	0
224	1	0
225	1	0
226	1	0
227	1	0
228	1	0
229	1	0
230	1	0
231	1	0
232	1	0
233	1	0
234	1	0
235	1	0
236	1	0
237	1	0
238	1	0
239	1	0
240	1	0
241	1	0
242	1	0
243	1	0
244	1	0
245	1	0
246	1	0
247	1	0
248	1	0
249	1	0
250	1	0
251	1	0
252	1	0
253	1	0

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KSMT (FM)
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254	1	0
255	1	0
256	1	0
257	1	0
258	1	0
259	1	0
260	1	0
261	1	0
262	1	0
263	1	0
264	1	0
265	1	0
266	1	0
267	1	0
268	1	0
269	1	0
270	1	0
271	1	0
272	1	0
273	1	0
274	1	0
275	1	0
276	1	0
277	1	0
278	1	0
279	1	0
280	1	0
281	1	0
282	1	0
283	1	0
284	1	0
285	1	0
286	1	0
287	1	0
288	1	0
289	1	0
290	1	0
291	1	0
292	1	0
293	1	0
294	1	0
295	1	0
296	1	0
297	1	0
298	1	0
299	1	0
300	1	0
301	1	0
302	1	0
303	1	0
304	1	0

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305	1	0
306	1	0
307	1	0
308	1	0
309	1	0
310	1	0
311	1	0
312	1	0
313	1	0
314	1	0
315	1	0
316	1	0
317	1	0
318	1	0
319	1	0
320	1	0
321	1	0
322	1	0
323	1	0
324	1	0
325	1	0
326	1	0
327	1	0
328	1	0
329	1	0
330	1	0
331	0.9866508	-0.1167303
332	0.9733016	-0.2350508
333	0.9599525	-0.3550054
334	0.9466033	-0.4766397
335	0.9332541	-0.6000016
336	0.912956	-0.791003
337	0.8926579	-0.9862986
338	0.8723598	-1.186087
339	0.8520617	-1.390579
340	0.8317636	-1.600002
341	0.8136729	-1.791003
342	0.7955822	-1.986299
343	0.7774915	-2.186087
344	0.7594008	-2.390579
345	0.7413101	-2.600002
346	0.7251867	-2.791003
347	0.7090634	-2.986299
348	0.69294	-3.186087
349	0.6768166	-3.390579
350	0.6606933	-3.600002
351	0.6463233	-3.791003
352	0.6319534	-3.9863
353	0.6175835	-4.186087
354	0.6032135	-4.390579
355	0.5888435	-4.600002

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356	0.5760363	-4.791003
357	0.5632291	-4.986299
358	0.5504218	-5.186087
359	0.5376146	-5.390578