

KDUT-FM2
Salt Lake City, UT
Proposed Minor Modification
of Licensed Booster Facility

Application Overview:

The Applicant proposes to modify BLFTB20030729AEY using the following parameters:

Tech Box:

Channel:	272
Antenna Coordinates:	N40-48-29, W111-53-23 (NAD 27)
ASRN:	Applied at FAA
Tower Site Base AMSL:	1810 m
Overall Tower Height AGL:	21.3 m
COR AGL:	21 m
ERP:	0.099 kW
Directional Antenna:	Yes - See Exhibit 4

Primary Station and Booster Protected Contour Relationship:

Exhibit 1 demonstrates that the proposed booster facility's protected contour is completely encompassed by the protected contour of the primary station being rebroadcast.

Interference Study:

Exhibit 2 is a contour overlap study demonstrating that the proposed antenna site provides requisite contour protection towards all applications, authorizations, and permits pursuant to Section 74.1204. Note, full power station KUFR(FM) Salt Lake City, operating on

I.F. Channel 219A has its antenna located nearby. As such, the instantly proposed facility only proposes an ERP of 0.099 kW in accordance with Section 74.1204(g).

Proposed Booster Located Above Other Directional Antenna:

The Proposed Booster antenna will be located on the same tower and above the shared directional emitter of the following contemporaneously proposed FM Boosters:

- KZZQ-FM4 Salt Lake City, UT (see Contemporaneously Proposed)
- KYMV-FM2 Salt Lake City, UT (see Contemporaneously Proposed)
- KEGA-FM3 Salt Lake City, UT (see Contemporaneously Proposed)
- KYLZ (New) Salt Lake City, UT (see Contemporaneously Proposed)
- KJQN-FM2 Salt Lake City, UT (see Contemporaneously Proposed)
- KBMG-FM2 Salt Lake City, UT (see Contemporaneously Proposed)

It should be noted that the antenna manufacturer of the shared antenna used for the facilities listed above (Shively Labs) factored in the instantly proposed facility's feedline passing through the aperture of the shared antenna. Therefore, the instant facility's feedline is ASSUMED to be in the aperture to create the azimuth pattern contemporaneously proposed by the stations listed above.

Downward Radiation Study (Measure Upon Construction)

Due to the fact that several existing and proposed emitters are located at or near the site, the applicant agrees to conduct a Radiofrequency Electromagnetic Field survey at the site upon construction of the proposed facility to ensure that any areas at ground level that exceed the

Commission's exposure guideline values are appropriately marked and fenced. The results of the survey will be provided with the application for license.

Even though the site will fully comply with the Uncontrolled Site Standards, access to the transmitting site will be restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency radiation will not exceed the FCC guidelines.

Existing Tower:

The proposed facility is exempt from environmental processing because the facility is not located at a location specified in Section 1.1307(a)(1)-(8) of the Commission's Rules and since the tower in question already exists.

Exhibit 1

**Primary Station Protected Contour
vs.
Proposed Booster Protected Contour**

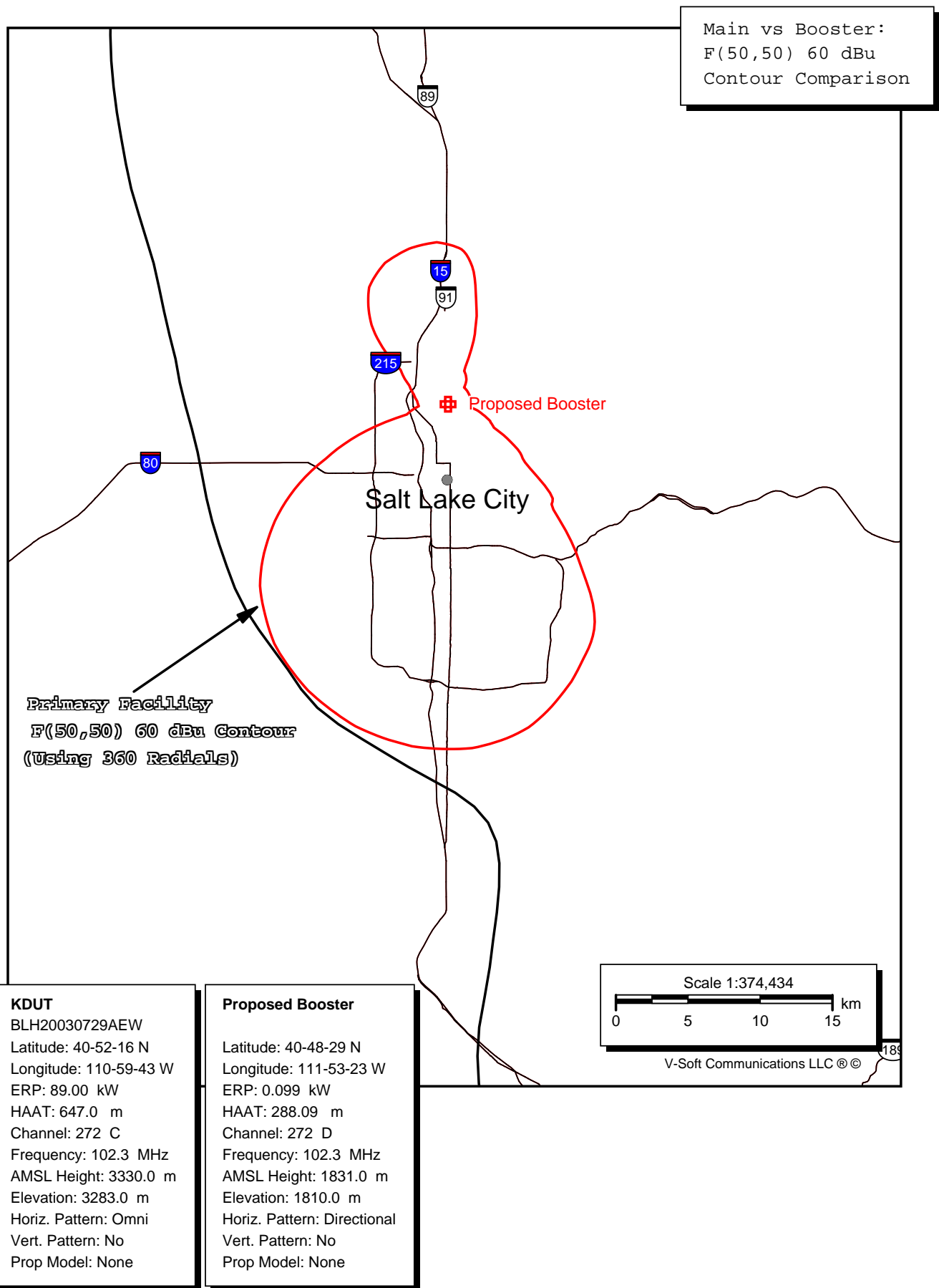


Exhibit 2

Section 74.1204 Interference Tabulations

KDUT-FM2 Proposed Booster

Section 74.1204 Antenna Site Channel Study

REFERENCE CH# 272D - 102.3 MHz, Pwr= 0.099 kW, HAAT= 0.0 M, COR= 1542.9 M DISPLAY DATES
 40 48 29.0 N. DATA 09-09-08
 111 53 23.0 W. SEARCH 10-05-08
 Average Protected F(50-50)= 5.6 km

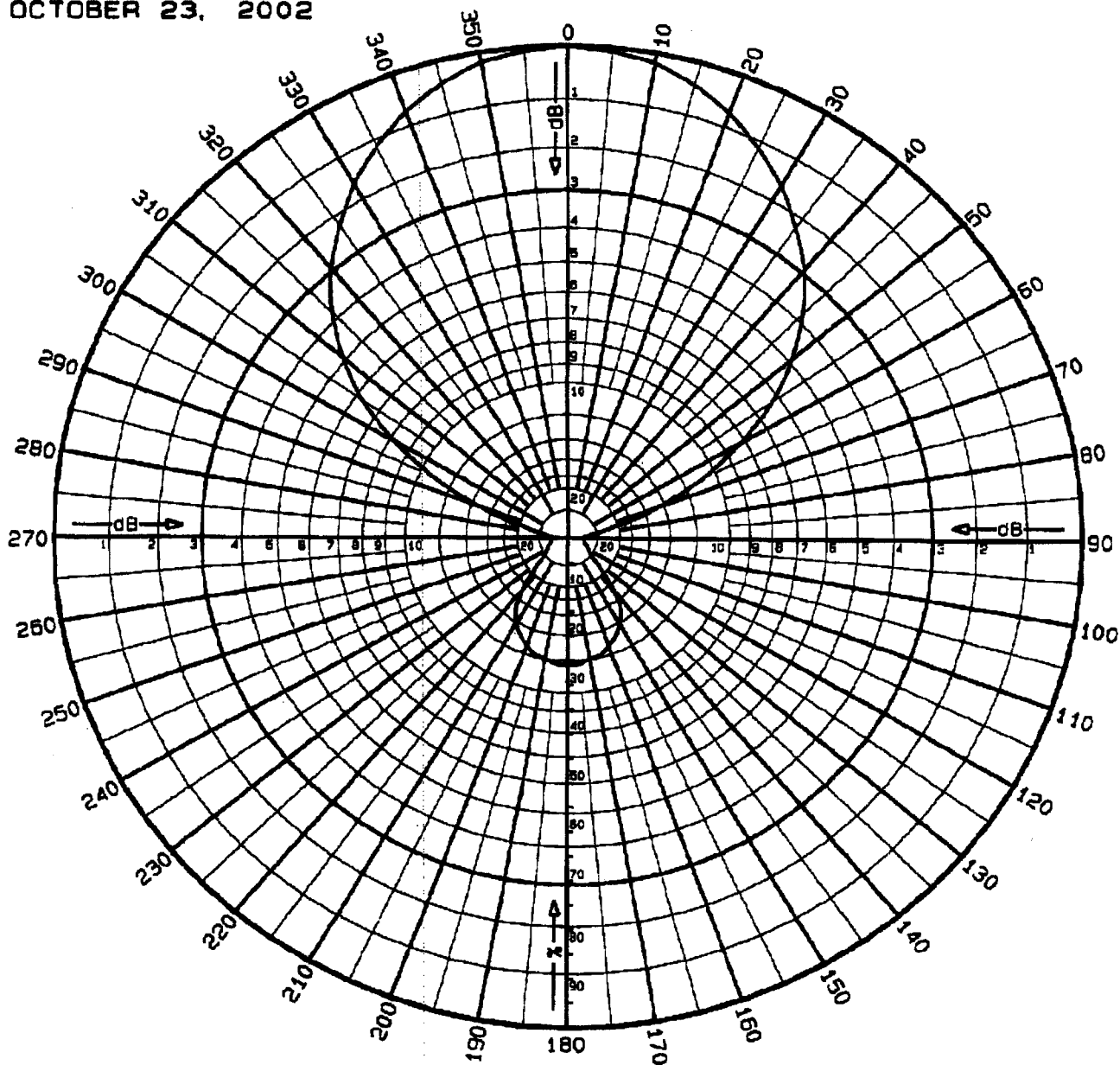
CH CITY	CALL	TYPE ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
272C Randolph	KDUT	LIC HX UT	84.4 265.0	75.76 BLH20030729AEW	40 52 16.0 110 59 43.0	89.000 647	200.1 3330	93.6 Bustos Media Of Utah Licen	-125.98*	-21.02*
272D Bountiful	KDUT-FM1	LIC DC UT	32.2 212.2	3.50 BLFTB200311103ACC	40 50 05.0 111 52 03.0	0.099	71.8 1828	22.5 Bustos Media Of Utah Licen	-70.64*	-26.21*
270C Ogden	KENZ	LIC CX UT	237.9 57.7	31.07 BLH20030508AAI	40 39 34.0 112 12 05.0	25.000 1140	10.0 2803	95.3 Citadel Broadcasting Compa	11.49	-64.47*
274C Midvale	KSL-FM	LIC CX UT	237.9 57.7	31.07 BLH20021113AAL	40 39 34.0 112 12 05.0	25.000 1140	10.0 2803	95.3 Bonneville Holding Company	11.49	-64.47*
272D Salt Lake City	KDUT-FM2	LIC DC UT	228.5 48.5	0.09 BLFTB20030729AEY	40 48 27.0 111 53 26.0	0.099	18.5 1829	5.6 Bustos Media Of Utah Licen	-30.11*	-44.62*
272D Ogden	KDUT-FM3	LIC DV UT	345.3 165.2	41.09 BLFTB20001108ABW	41 09 57.0 112 00 52.0	5.600	76.2 1419	21.0 Bustos Media Of Utah Licen	-42.91*	-6.36
219A Salt Lake City	KUFR	LIC CN UT	176.6 356.6	4.33 BLED19891222KB	40 46 09.0 111 53 12.0	0.220 -97	23.0 1413	6.9 Family Stations, Inc.	9.5R	-5.2M
OF NOTE: Due to the close proximity of KUFR(FM) which operates on the I.F. Channel for the proposed booster, the ERP of the booster is limited to 0.099 kW as provided in Section 73.1204(g).										
272D Provo	KDUT-FM5	LIC DC UT	159.7 339.9	60.14 BLFTB20050526AHC	40 18 00.0 111 38 38.0	0.099	18.5 1638	5.6 Bustos Media Of Utah Licen	27.98	9.64
272C Wendover	KVUW	RSV NV	274.9 93.2	227.14	40 57 09.0 114 34 40.0	100.000 600	208.0 2512	98.1 Murray Grey Broadcasting,	17.07	119.59
272C Wendover	KVUW	APP NCX NV	279.7 97.9	228.08 BPH20080716ABW	41 07 19.0 114 34 02.0	100.000 600	201.3 2553	93.9 Murray Grey Broadcasting,	24.64	124.47
271D Wellsville	K271BI	CP DV UT	357.4 177.3	82.61 BNPFT20080619AKK	41 33 04.0 111 56 07.0	0.210	36.7 2185	24.1 Sun Valley Radio, Inc.	38.42	47.70
275D Wellsville	K275AV	CP DV UT	357.4 177.3	82.61 BPFT20080619AKM	41 33 04.0 111 56 07.0	0.250	1.1 2185	25.1 Sun Valley Radio, Inc.	73.96	57.29

Terrain database is NGDC 30 SEC Distance + R = FCC Required Spacings in KM, Distance + M = Margin in KM
 ERP and HAAT on direct-line with reference station.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
 "*"affixed to 'IN' or 'OUT' values = site inside protected contour.

Exhibit 4

Proposed Directional Pattern Azimuth Tabulations

OCTOBER 23, 2002



CA2-FM/CP ANTENNA
MAX GAIN: 10dBd
POWER: 1.3
CIRCULAR POLARIZATION
HORIZONTAL PLANE PATTERN

KATHREIN
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CA2-FM/CP

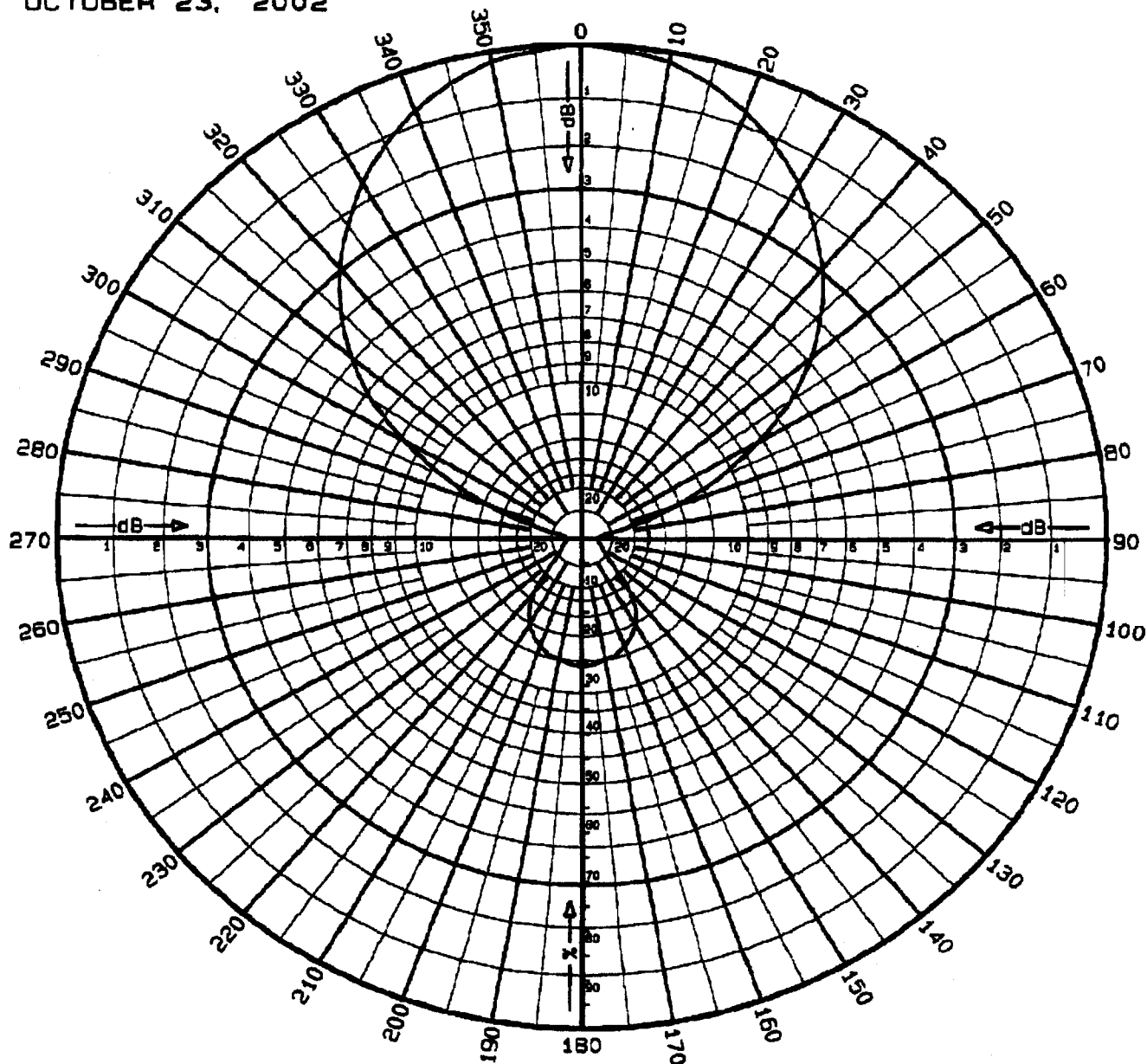
CIRCULAR POLARIZATION/HORIZONTAL PLANE PATTERN

Azimuth	Relative Field	Relative dB	dBd	Power Gain
0	1.000	0.0	1.0	1.259
5	0.990	-0.1	0.9	1.230
10	0.979	-0.2	0.8	1.202
15	0.952	-0.4	0.6	1.148
20	0.920	-0.7	0.3	1.072
25	0.877	-1.1	-0.1	0.977
30	0.829	-1.6	-0.6	0.871
35	0.772	-2.3	-1.3	0.741
40	0.715	-2.9	-1.9	0.646
45	0.647	-3.8	-2.8	0.525
50	0.570	-4.9	-3.9	0.407
55	0.487	-6.3	-5.3	0.295
60	0.388	-8.2	-7.2	0.191
65	0.292	-10.7	-9.7	0.107
70	0.187	-14.6	-13.6	0.044
75	0.095	-20.4	-19.4	0.011
80	0.045	-26.9	-25.9	0.003
85	0.032	-30.0	-29.0	0.001
90	0.030	-30.5	-29.5	0.001
95	0.031	-30.2	-29.2	0.001
100	0.032	-30.0	-29.0	0.001
105	0.033	-29.5	-28.5	0.001
110	0.037	-28.7	-27.7	0.002
115	0.042	-27.6	-26.6	0.002
120	0.046	-26.8	-25.8	0.003
125	0.053	-25.5	-24.5	0.004
130	0.065	-23.7	-22.7	0.005
135	0.093	-20.6	-19.6	0.011
140	0.142	-17.0	-16.0	0.025
145	0.179	-14.9	-13.9	0.041
150	0.202	-13.9	-12.9	0.051
155	0.221	-13.1	-12.1	0.062
160	0.234	-12.6	-11.6	0.069
165	0.247	-12.2	-11.2	0.076
170	0.250	-12.0	-11.0	0.079
175	0.258	-11.8	-10.8	0.083
180	0.260	-11.7	-10.7	0.085
185	0.258	-11.8	-10.8	0.083
190	0.250	-12.0	-11.0	0.079
195	0.247	-12.2	-11.2	0.076
200	0.234	-12.6	-11.6	0.069
205	0.221	-13.1	-12.1	0.062
210	0.202	-13.9	-12.9	0.051
215	0.179	-14.9	-13.9	0.041
220	0.142	-17.0	-16.0	0.025
225	0.093	-20.6	-19.6	0.011
230	0.065	-23.7	-22.7	0.005
235	0.053	-25.5	-24.5	0.004
240	0.046	-26.8	-25.8	0.003
245	0.042	-27.6	-26.6	0.002
250	0.037	-28.7	-27.7	0.002

CA2-FM/CP
CIRCULAR POLARIZATION/HORIZONTAL PLANE PATTERN

Azimuth	Relative Field	Relative dB	dBd	Power Gain
255	0.033	-29.5	-28.5	0.001
260	0.032	-30.0	-29.0	0.001
265	0.031	-30.2	-29.2	0.001
270	0.030	-30.5	-29.5	0.001
275	0.032	-30.0	-29.0	0.001
280	0.045	-26.9	-25.9	0.003
285	0.095	-20.4	-19.4	0.011
290	0.187	-14.6	-13.6	0.044
295	0.292	-10.7	-9.7	0.107
300	0.388	-8.2	-7.2	0.191
305	0.487	-6.3	-5.3	0.295
310	0.570	-4.9	-3.9	0.407
315	0.647	-3.8	-2.8	0.525
320	0.715	-2.9	-1.9	0.646
325	0.772	-2.3	-1.3	0.741
330	0.829	-1.6	-0.6	0.871
335	0.877	-1.1	-0.1	0.977
340	0.920	-0.7	0.3	1.072
345	0.952	-0.4	0.6	1.148
350	0.979	-0.2	0.8	1.202
355	0.990	-0.1	0.9	1.230

OCTOBER 23, 2002



CA2-FM/CP
MAX GAIN: 1.0 dBd
POWER-x: 1.3
CIRCULAR POLARIZATION
VERTICAL PLANE PATTERN

KATHREIN
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0	1.000	0.0	1.0	1.259
5	0.990	-0.1	0.9	1.230
10	0.979	-0.2	0.8	1.202
15	0.952	-0.4	0.6	1.148
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45	0.647	-3.8	-2.8	0.525
50	0.570	-4.9	-3.9	0.407
55	0.487	-6.3	-5.3	0.295
60	0.388	-8.2	-7.2	0.191
65	0.292	-10.7	-9.7	0.107
70	0.187	-14.6	-13.6	0.044
75	0.095	-20.4	-19.4	0.011
80	0.045	-26.9	-25.9	0.003
85	0.032	-30.0	-29.0	0.001
90	0.030	-30.5	-29.5	0.001
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