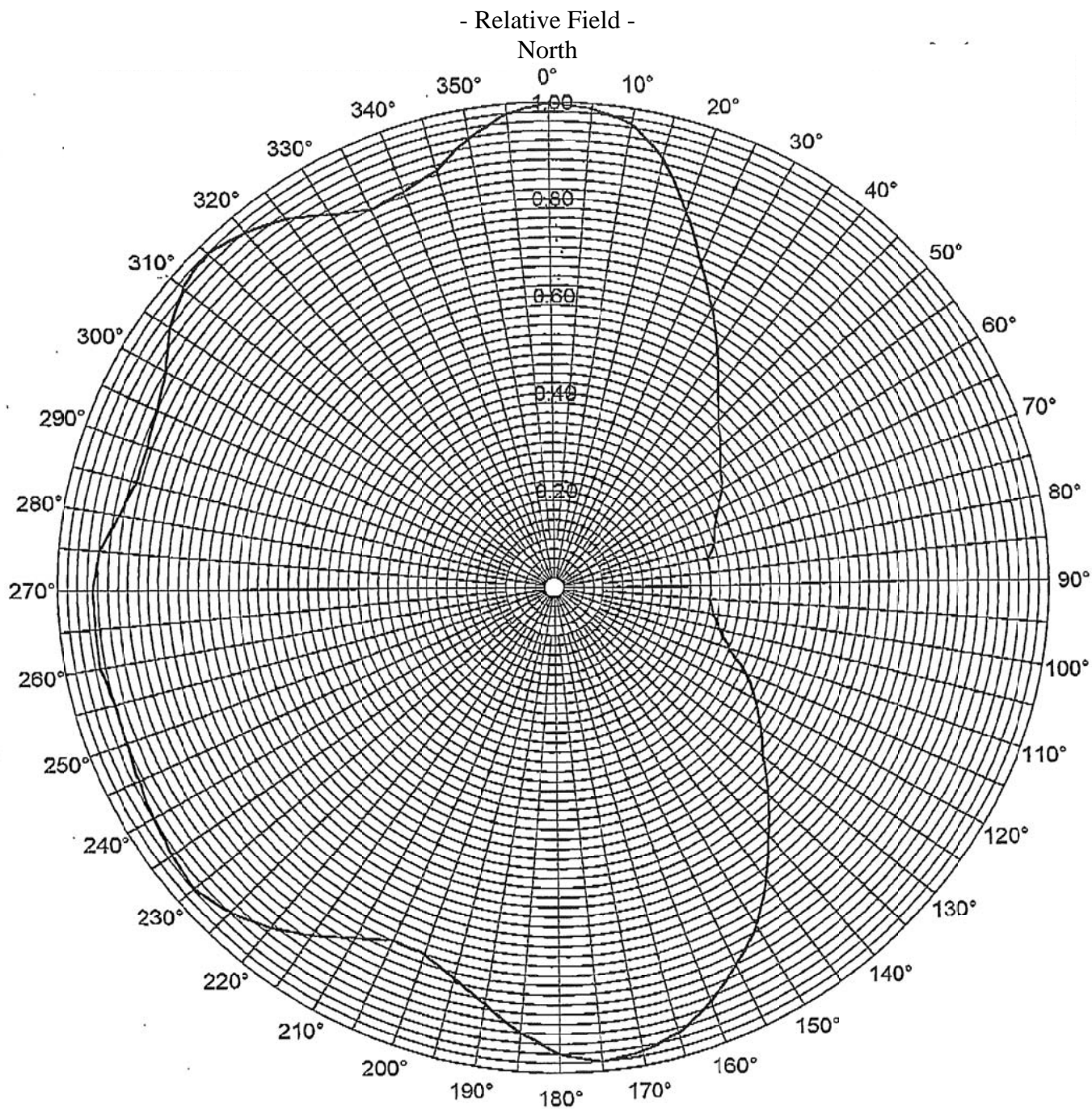


Existing Licensed Antenna  
Horizontal Plane Pattern



Source: antenna manufacturer ADC



Existing Licensed Antenna  
Horizontal Plane Pattern

TABULATION OF RELATIVE FIELDS

HORIZONTAL PLANE PATTERN

<u>Azimuth</u>	<u>Relative Field</u>	<u>Azimuth</u>	<u>Relative Field</u>
N 0° E	1.00	N 180° E	0.96
05	0.99	185	0.92
10	0.97	190	0.87
15	0.91	195	0.83
20	0.82	200	0.80
25	0.73	205	0.80
30	0.66	210	0.83
35	0.59	215	0.87
40	0.53	220	0.91
45	0.48	225	0.94
50	0.45	230	0.96
55	0.42	235	0.95
60	0.40	240	0.94
65	0.37	245	0.93
70	0.35	250	0.92
75	0.34	255	0.92
80	0.32	260	0.93
85	0.32	265	0.93
90	0.32	270	0.93
95	0.32	275	0.92
100	0.33	280	0.89
105	0.35	285	0.87
110	0.38	290	0.87
115	0.43	295	0.88
120	0.47	300	0.90
125	0.51	305	0.94
130	0.55	310	0.97
135	0.61	315	0.98
140	0.67	320	0.96
145	0.74	325	0.93
150	0.81	330	0.89
155	0.86	335	0.86
160	0.91	340	0.87
165	0.95	345	0.89
170	0.97	350	0.94
175	0.98	355	0.96

Source: antenna manufacturer ADC



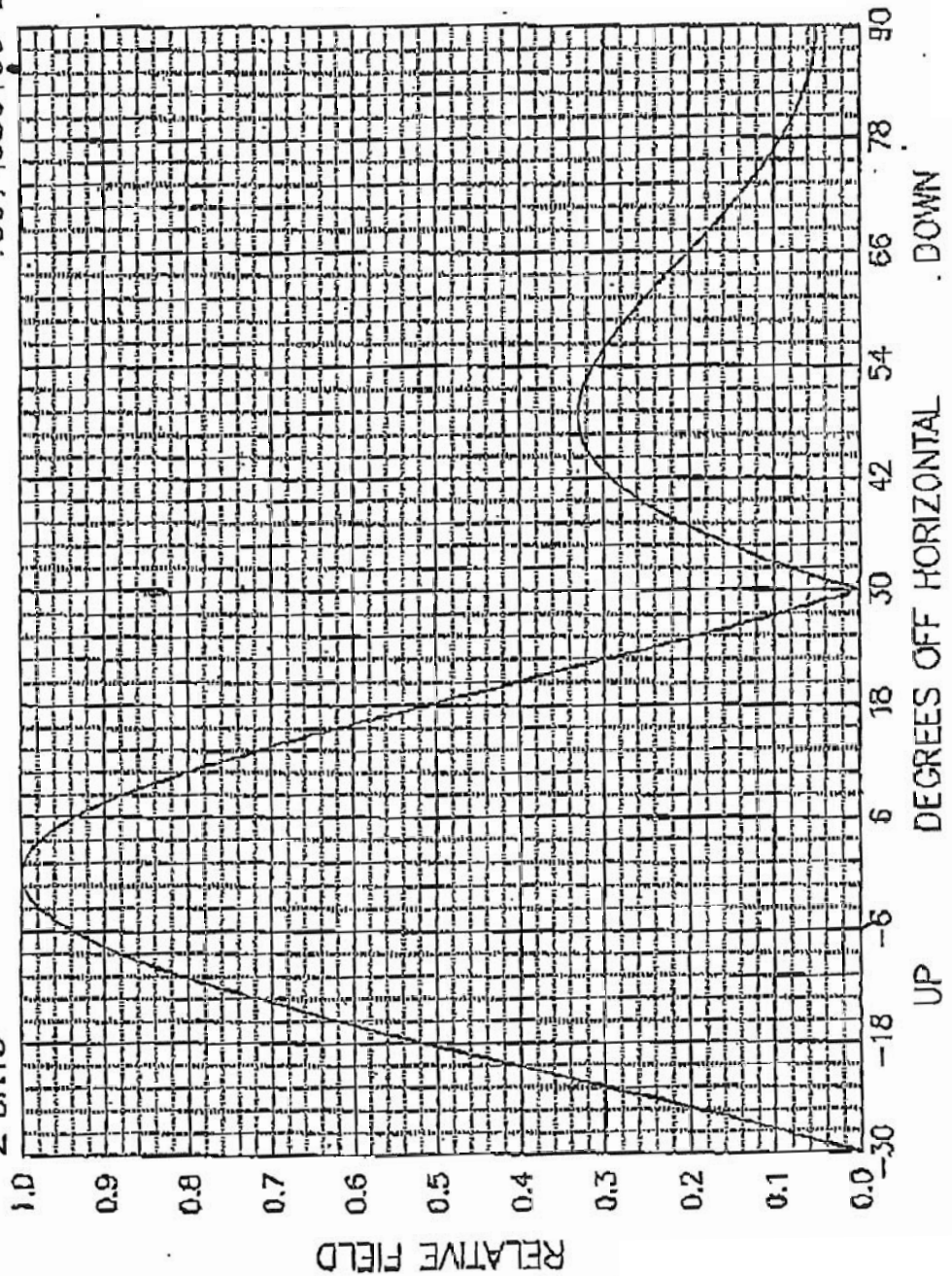
Existing Licensed Antenna  
Vertical Plane Pattern



ELEVATION RADIATION PATTERN

CH 11 - MISSOULA  
DOUBLE DIPOLE  
2 BAYS

861 4950406-2



HAMMETT & EDISON, INC.  
CONSULTING ENGINEERS  
SAN FRANCISCO

**Existing Licensed Antenna  
Vertical Plane Pattern**

<u>Elevation Angle</u>	<u>Relative Field</u>
-13.2	0.719
-10.8	0.800
-8.4	0.880
-6.0	0.939
-3.6	0.979
-1.2	0.998
0.0	1.000
1.2	0.999
3.6	0.980
6.0	0.946
8.4	0.880
10.8	0.805
13.2	0.721
15.6	0.630
18.0	0.518
20.4	0.403
22.8	0.300
25.2	0.192
27.6	0.099
30.0	0.001
32.4	0.081
34.8	0.150
37.2	0.209
39.6	0.255
42.0	0.290
44.4	0.315
46.8	0.326
49.2	0.330
51.6	0.324
54.0	0.313
56.4	0.297
58.8	0.285
61.2	0.253
63.6	0.228
66.0	0.200
68.4	0.179
70.4	0.153
73.2	0.129
75.6	0.110
78.0	0.092
80.4	0.078
82.8	0.057
87.6	0.051
90.0	0.050

Source: antenna manufacturer ADC

