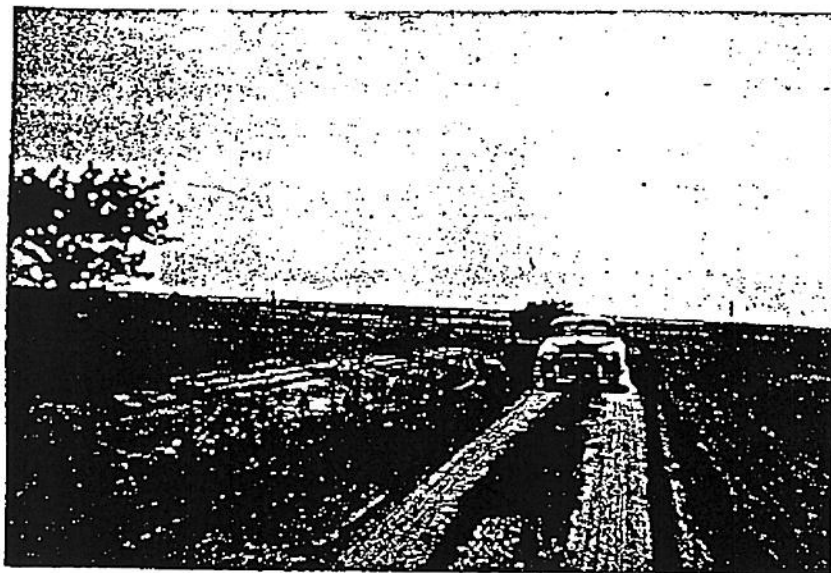


POINT NO. 1

JUL • 56



LOOKING WEST

JUL • 56



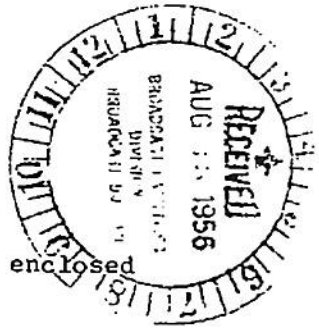
LOOKING EAST

ENGINEERING AMENDMENT
KCCO LICENSE APPLICATION



In regard to 8841:

- 1) The correct directional inverse distance field intensity for Radial H is 126 mv/m. This is the value indicated by the unattenuated line at one mile on the ground wave field intensity vs distance graph and it is the value shown in the direction N 296° E in figure 1. The label on the graph which says 136 mv/m is a typographical error and is incorrect.
- 2) A corrected Figure 2 is enclosed.
- 3) Photographs of the monitoring points are enclosed.
- 4) A map of the best route to the monitoring points is enclosed as Figure 11.
- 5) Measurements made on the KSWO monitoring points are enclosed.



In accordance with the recommendations of Inspector Marion E. Apple of the Dallas office, monitoring point number one is changed. The new directions are as follows:

Point No. 1 (No. 9 on radial A in Figure 6A)

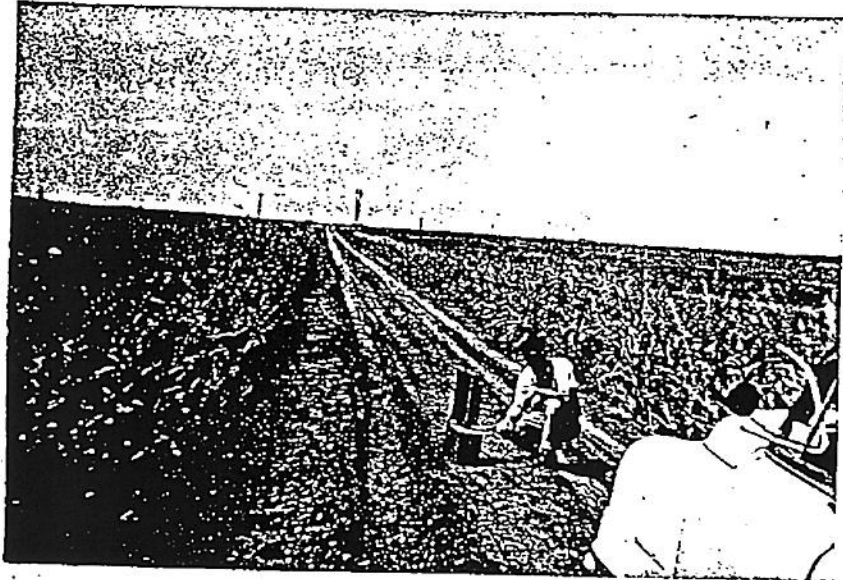
From the junction of Highway 277 and Highway 7 proceed 3.3 miles east on Highway 7. Turn north and continue exactly 2.0 miles. Turn east 0.3 miles. The monitoring point is at the top of a small rise by a little tree on the south side of the road. The distance to the transmitter is 2.6 miles on the radial N 32° E. The field intensity at this point should not exceed 11.1 mv/m.

Point No. 2 (No. 3 on radial C in Figure 6A)

From Point 1 return 0.3 miles west. Turn south for 1.86 miles. The monitoring point is about 300 feet south of a small telephone line and about 750 feet north of Highway 7. The distance to the transmitter is 1.15 miles on Radial N 72° E. The field intensity should not exceed 26.5 mv/m at this point.

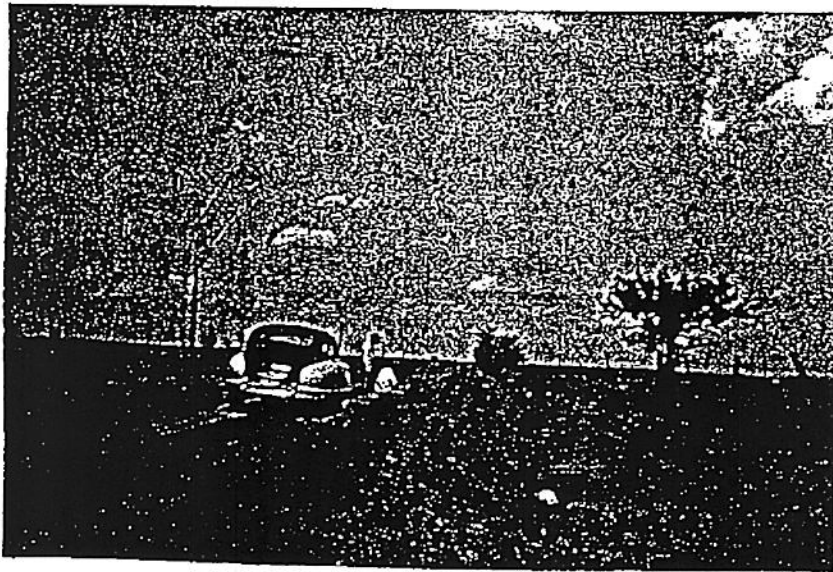
POINT NO. 2

JUL • 56



LOOKING NORTH

JUL • 56



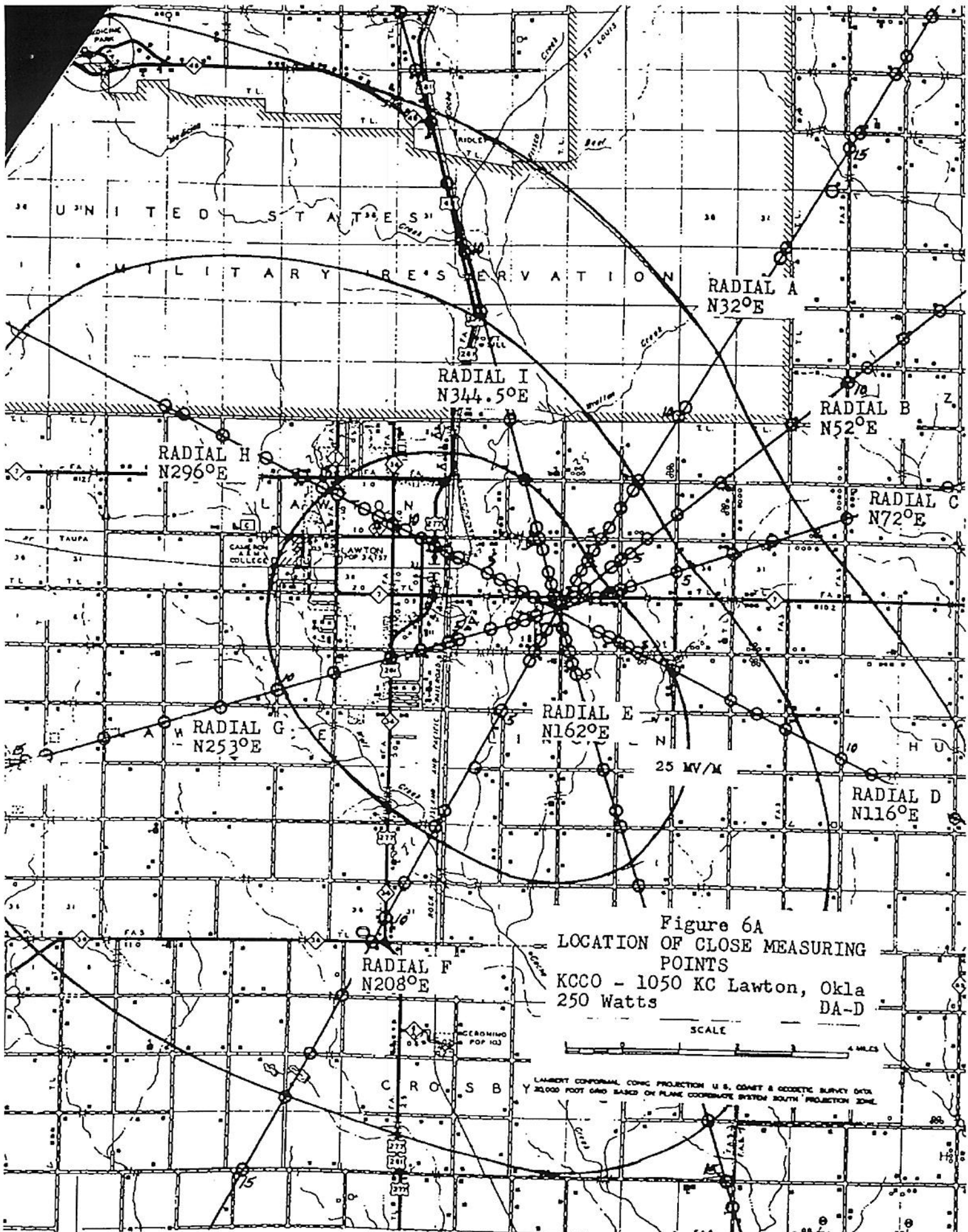


Figure 6A
 LOCATION OF CLOSE MEASURING
 POINTS
 KCCO - 1050 KC Lawton, Okla
 250 Watts
 DA-D

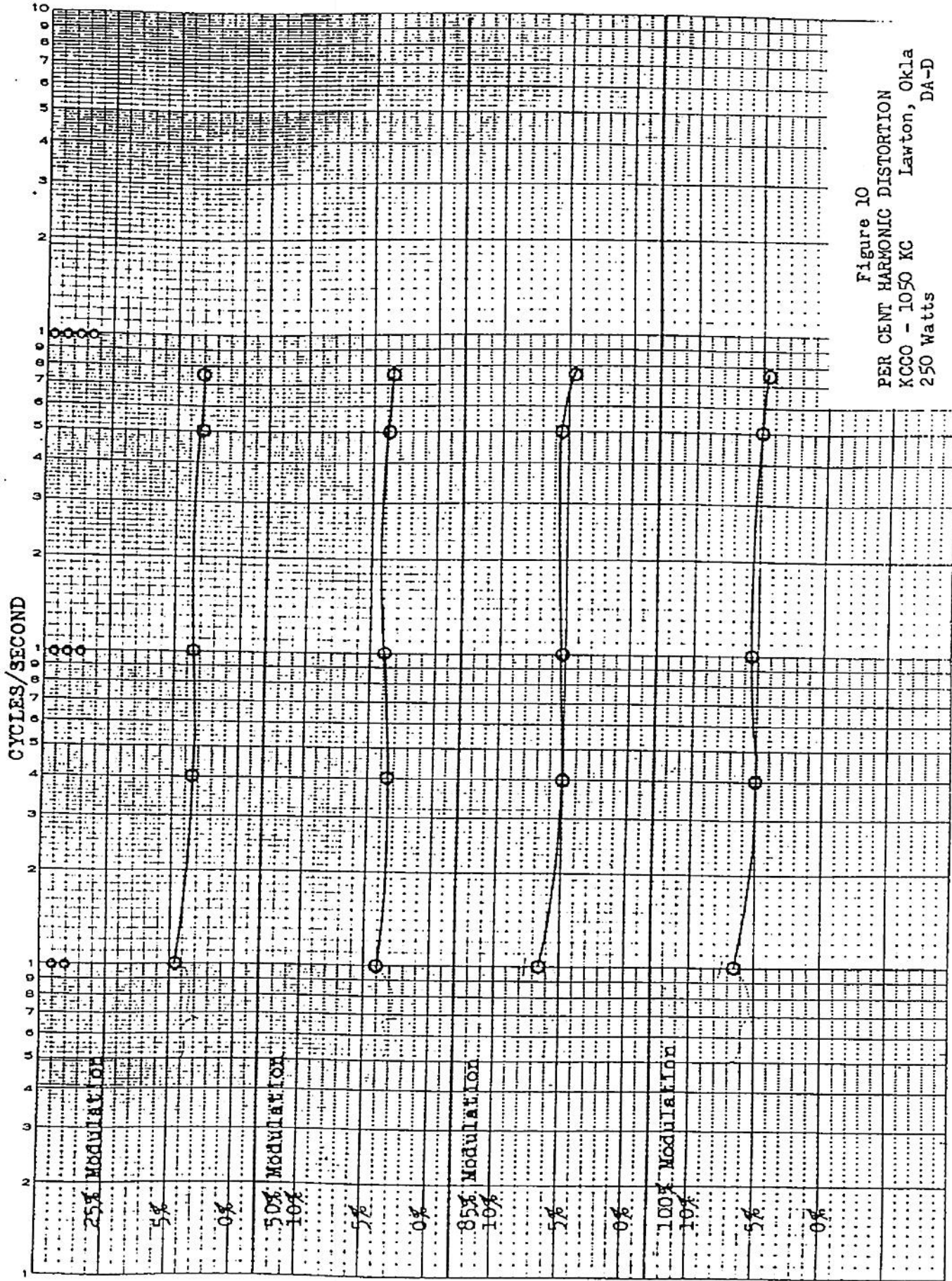


Figure 10
 PER CENT HARMONIC DISTORTION
 KCCO - 1050 KC
 250 Watts
 Lawton, Okla
 DA-D

CYCLES/SECOND

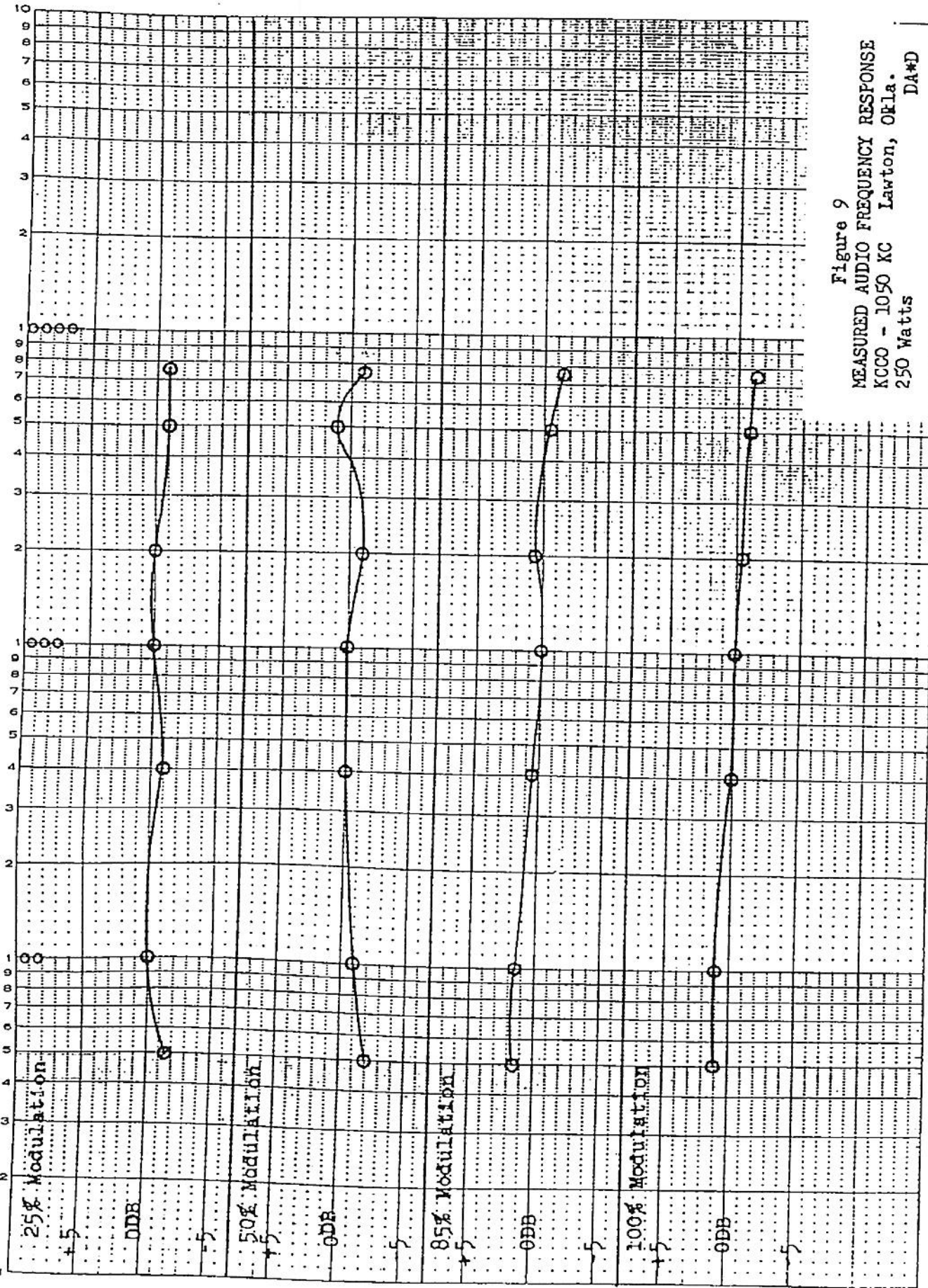


Figure 9
 MEASURED AUDIO FREQUENCY RESPONSE
 KCCO - 1050 KC Lawton, Okla.
 250 Watts
 DA#D

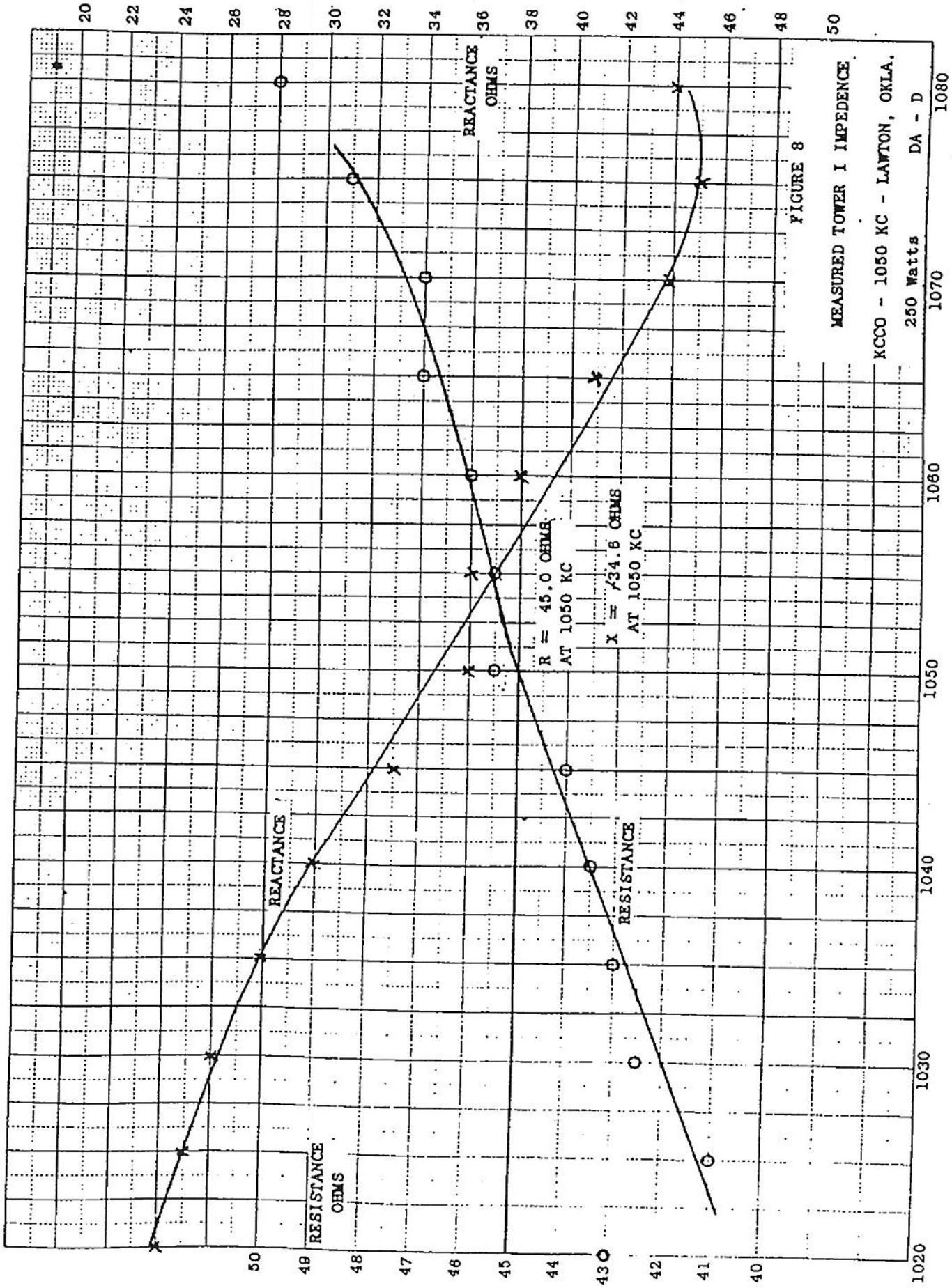


FIGURE 8

MEASURED TOWER I IMPEDENCE
KCCO - 1050 KC - LAWTON, OKLA.
250 Watts
DA - D

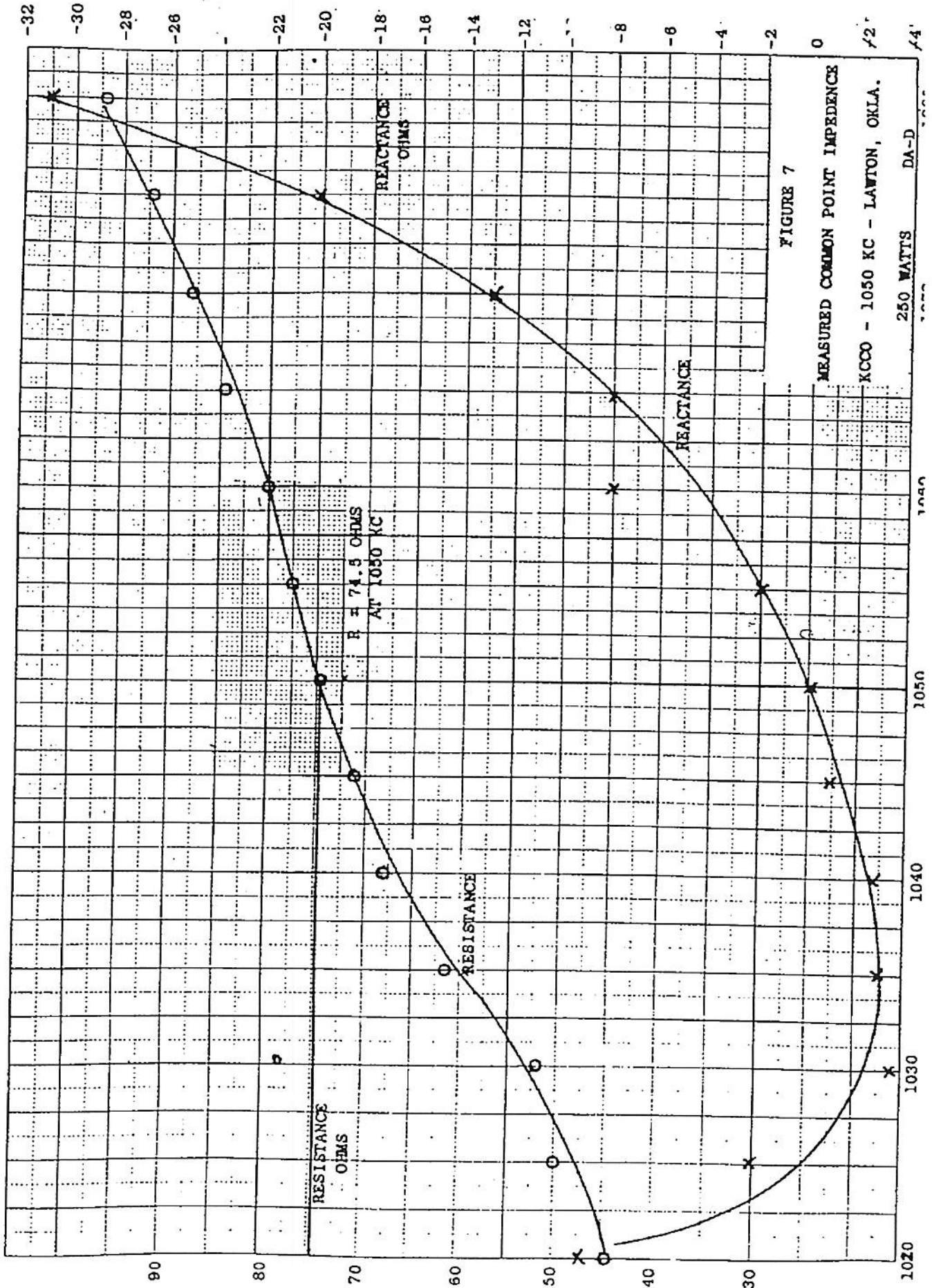
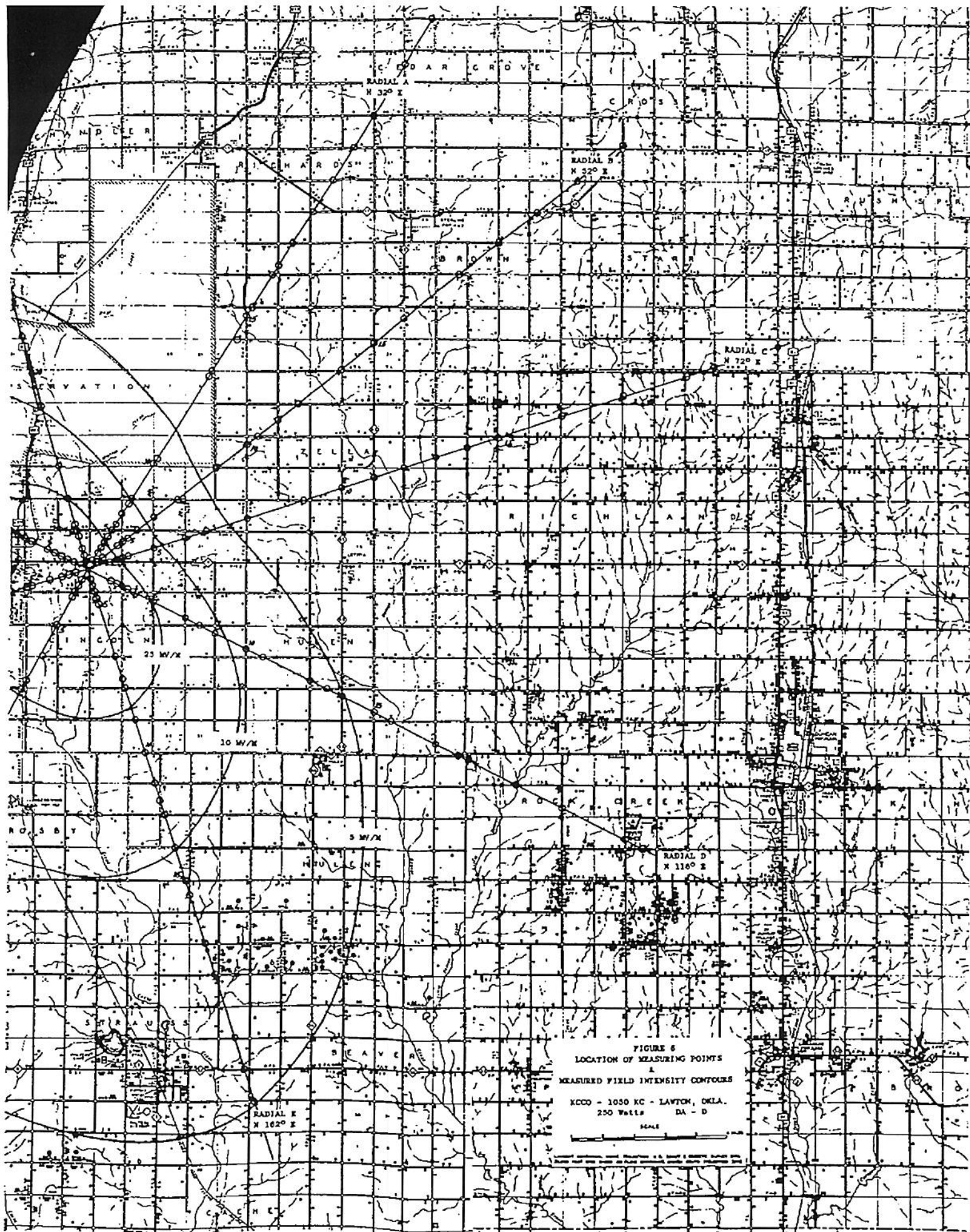
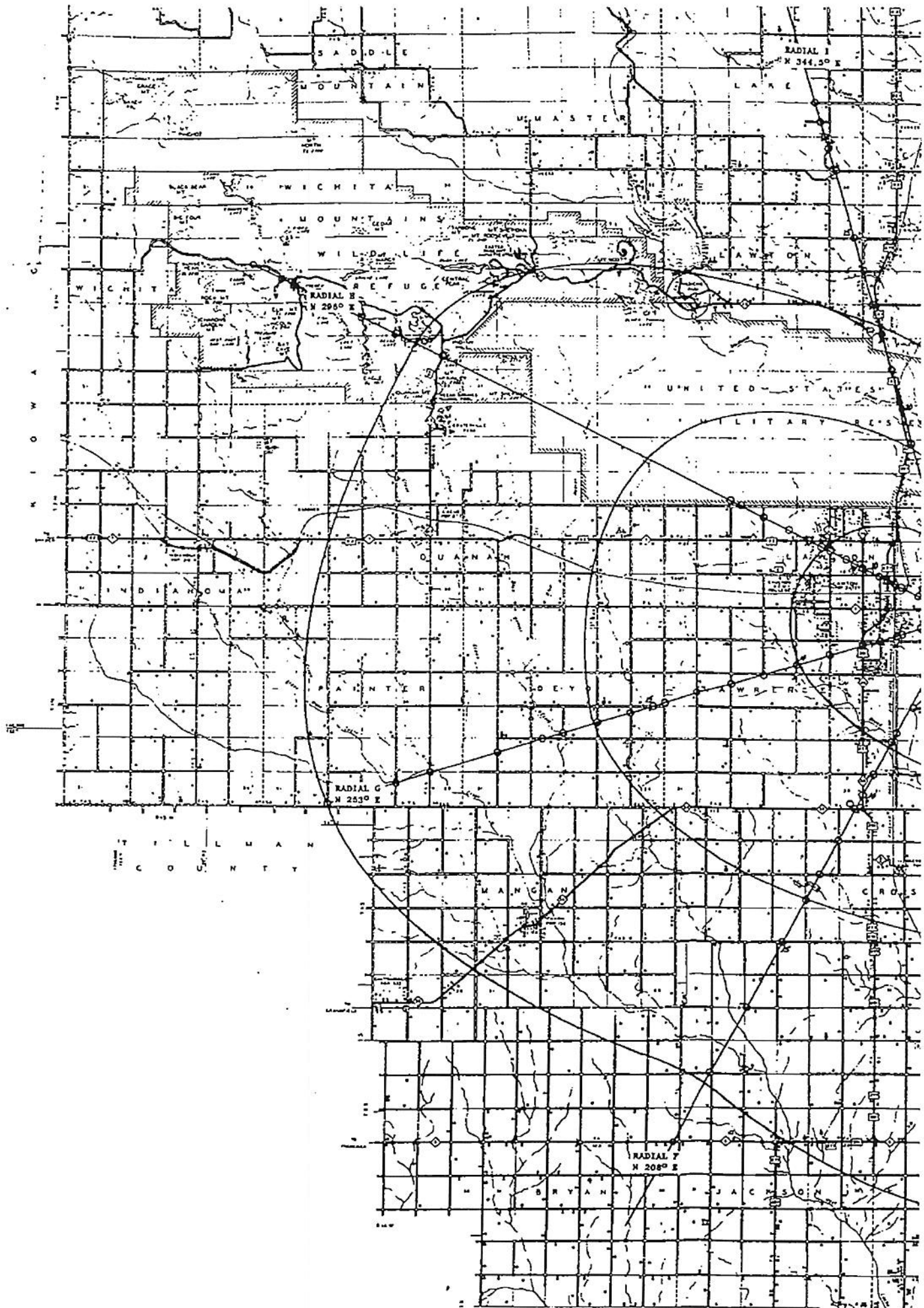


FIGURE 7

MEASURED COMMON POINT IMPEDENCE
KCCO - 1050 KC - LAWTON, OKLA.
250 WATTS DA-D





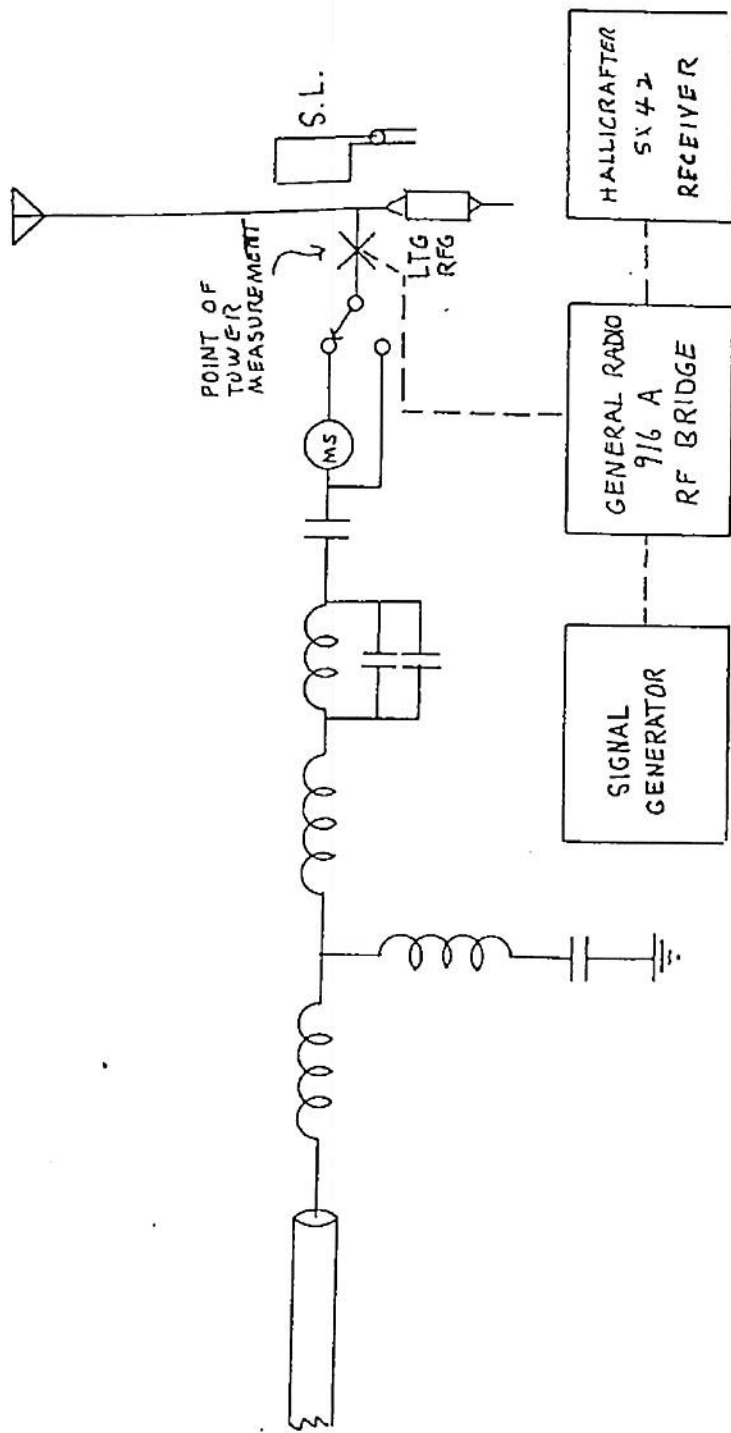


Figure 5
 NON-DIRECTIONAL ANTENNA COUPLING
 KCCO - 1050 KC - LAWTON, OKLA.
 250 Watts DA-D

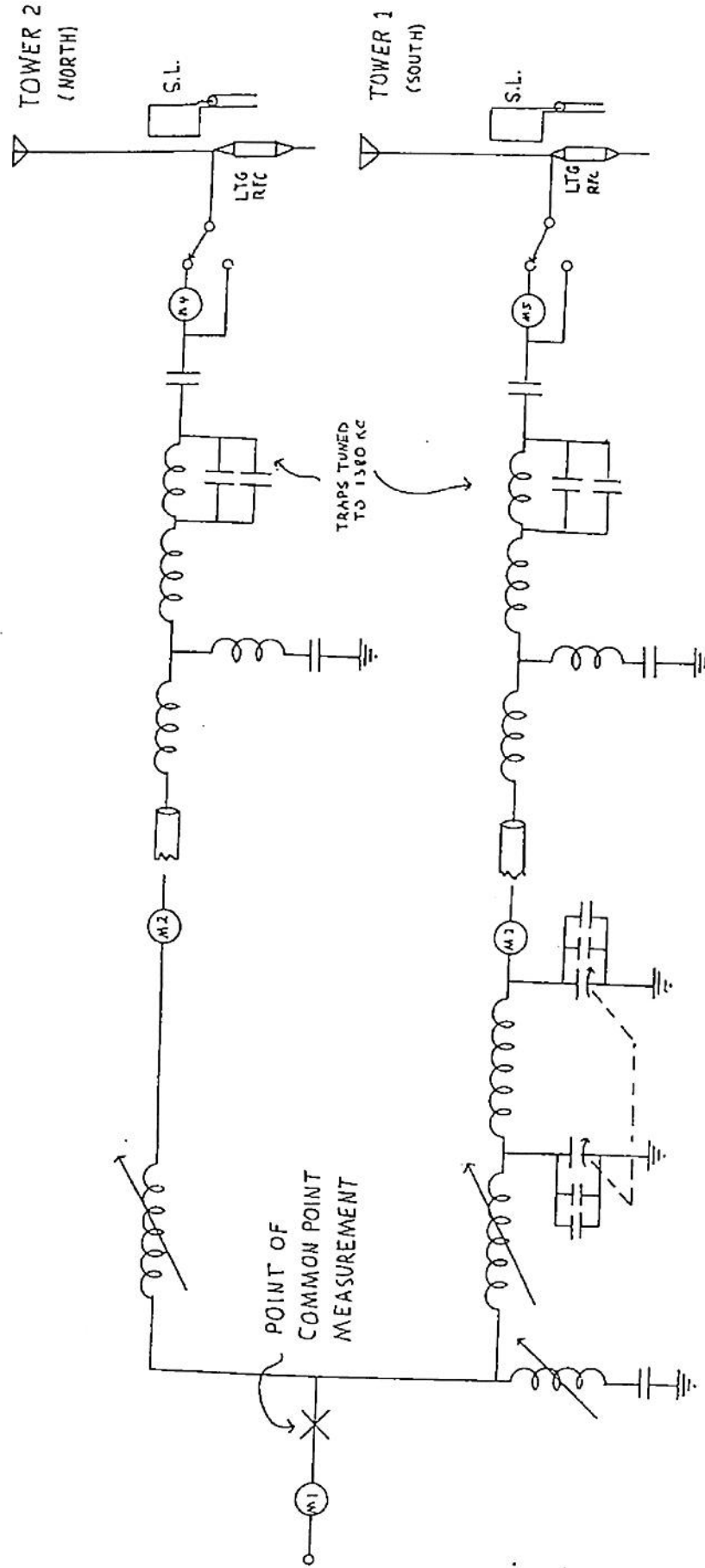


Figure 4
 ANTENNA SCHEMATIC DIAGRAM
 KCCO - 10 50 KC - LAWTON, OKLA.
 250 Watts DA-D

NO. 340R - P. DIETZGEN 10PH PAPER
POLAR CO-ORDINATE

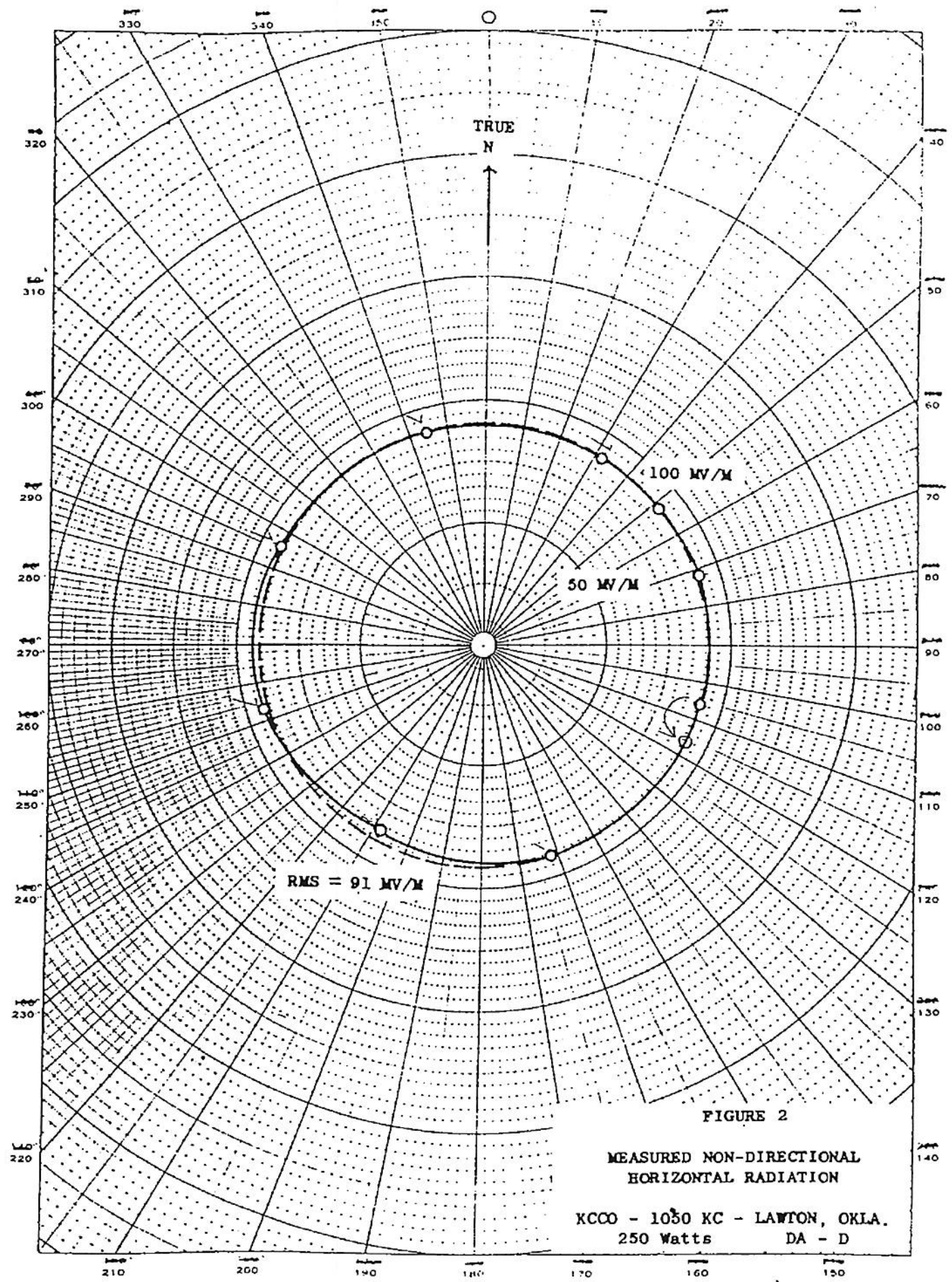


FIGURE 2

MEASURED NON-DIRECTIONAL
HORIZONTAL RADIATION

KCCO - 1030 KC - LAWTON, OKLA.
250 Watts DA - D

NO. 3-10R - DIETZEN GRAPH PAPER
POLAR CO-ORDINATE

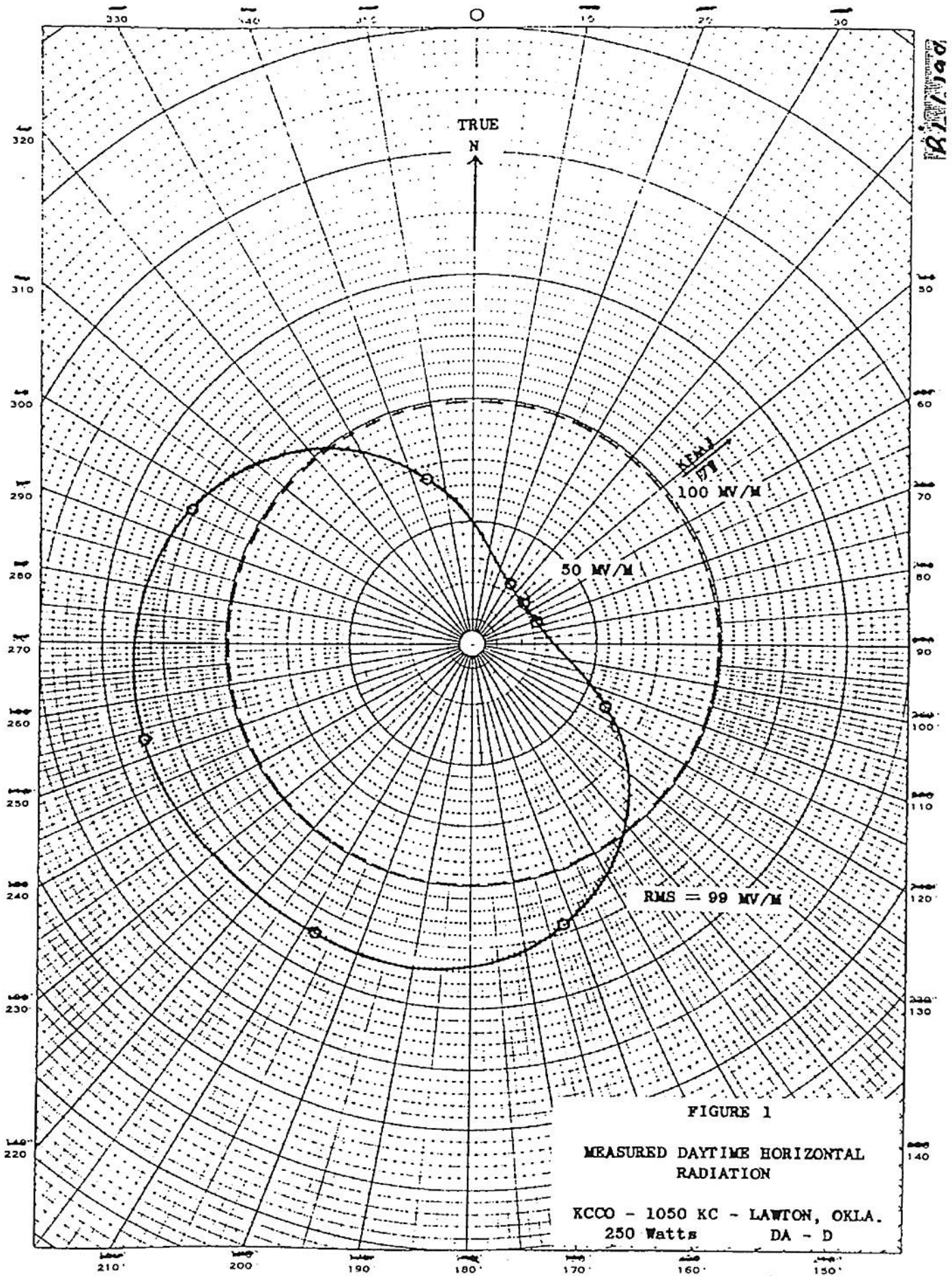


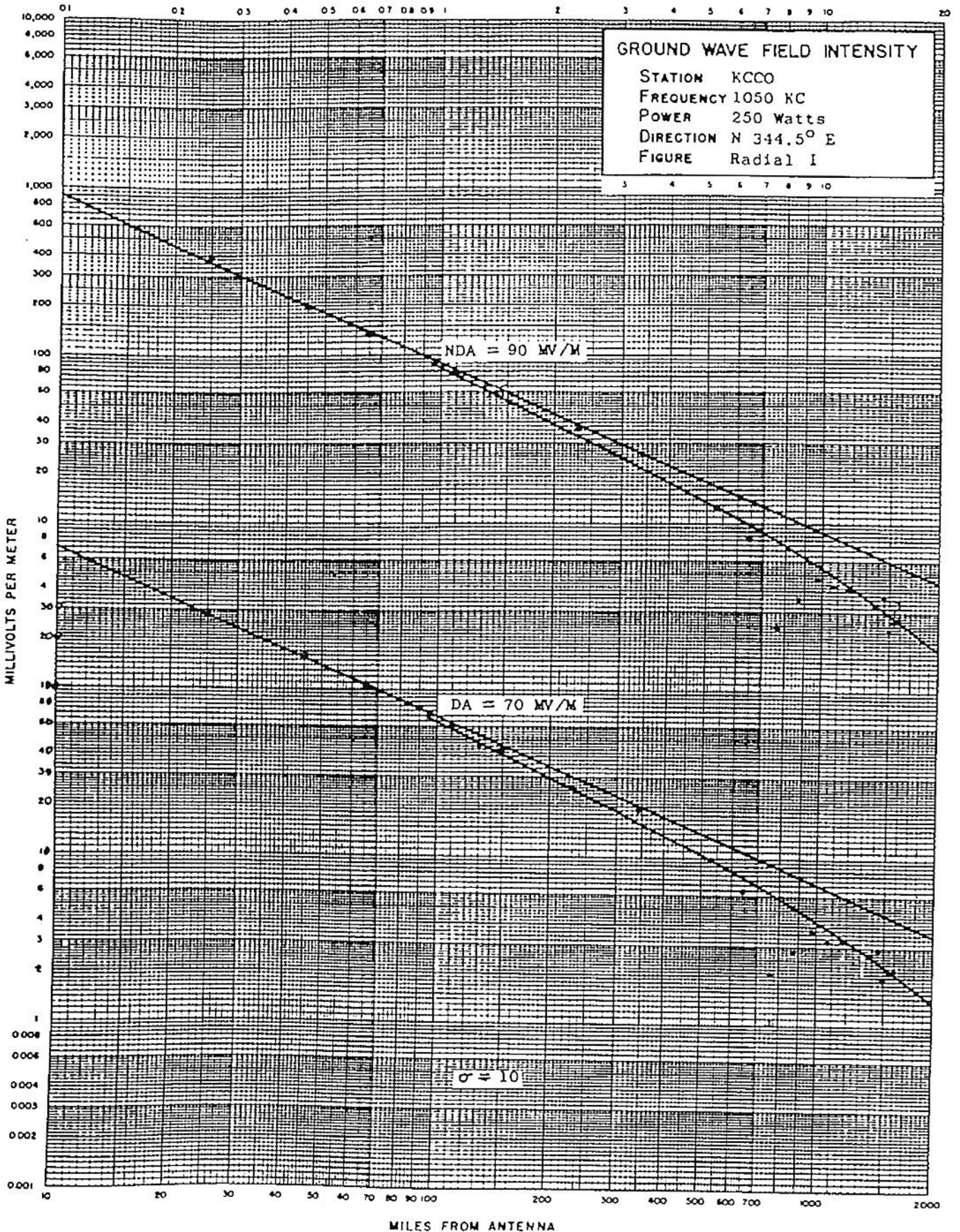
FIGURE 1

MEASURED DAYTIME HORIZONTAL
RADIATION

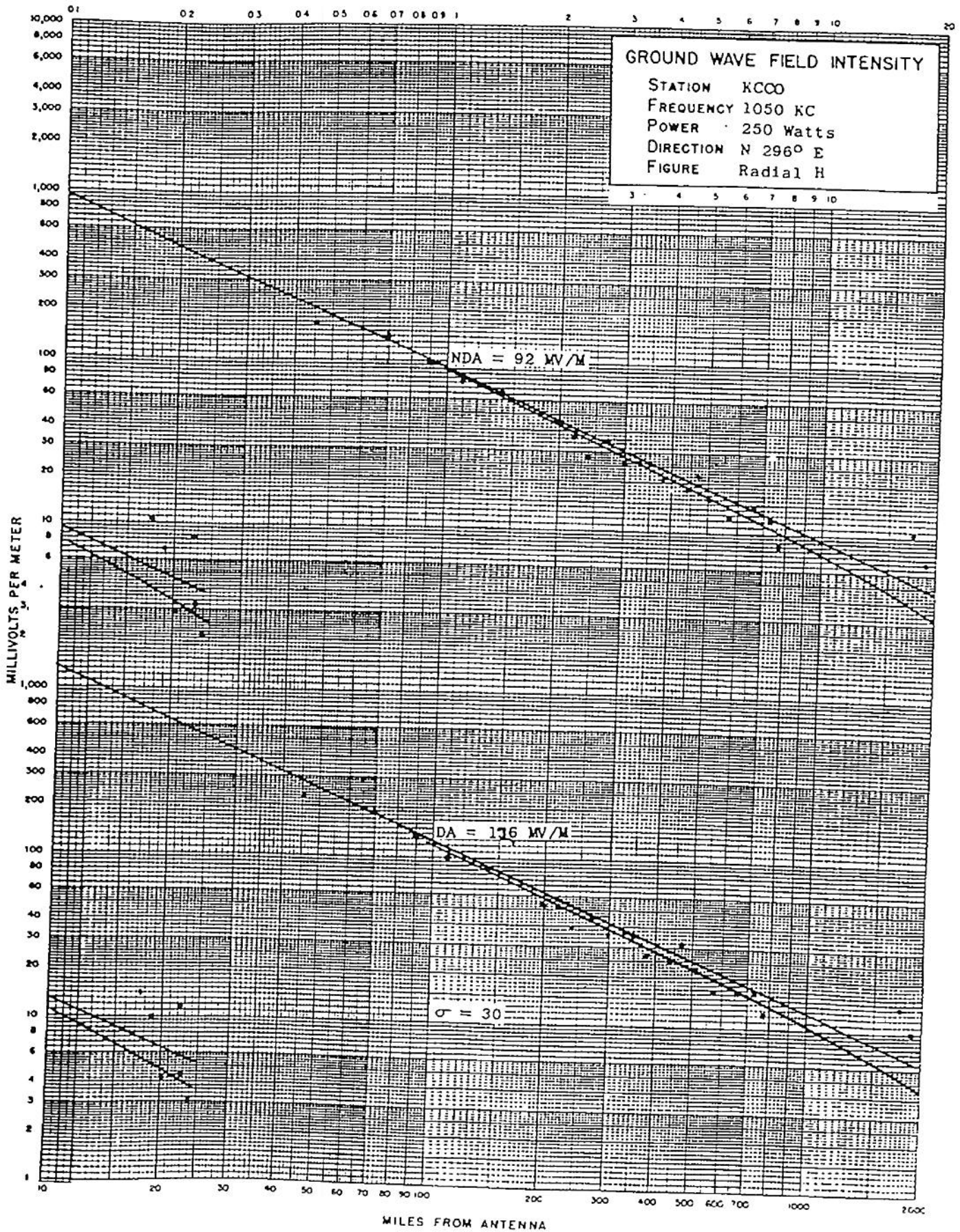
KCCO - 1050 KC - LAWTON, OKLA.
250 Watts DA - D

0, 1100

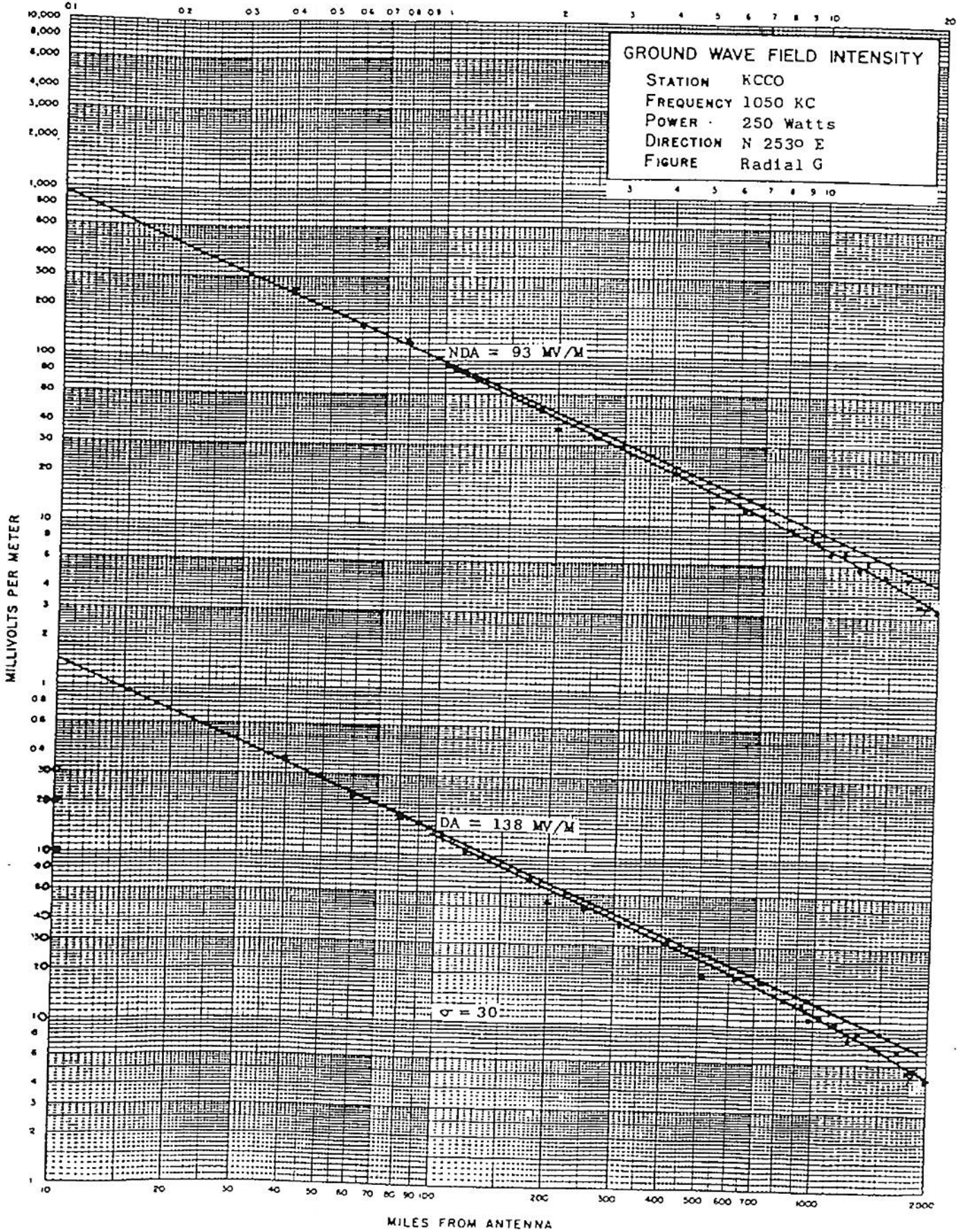
MILES FROM ANTENNA



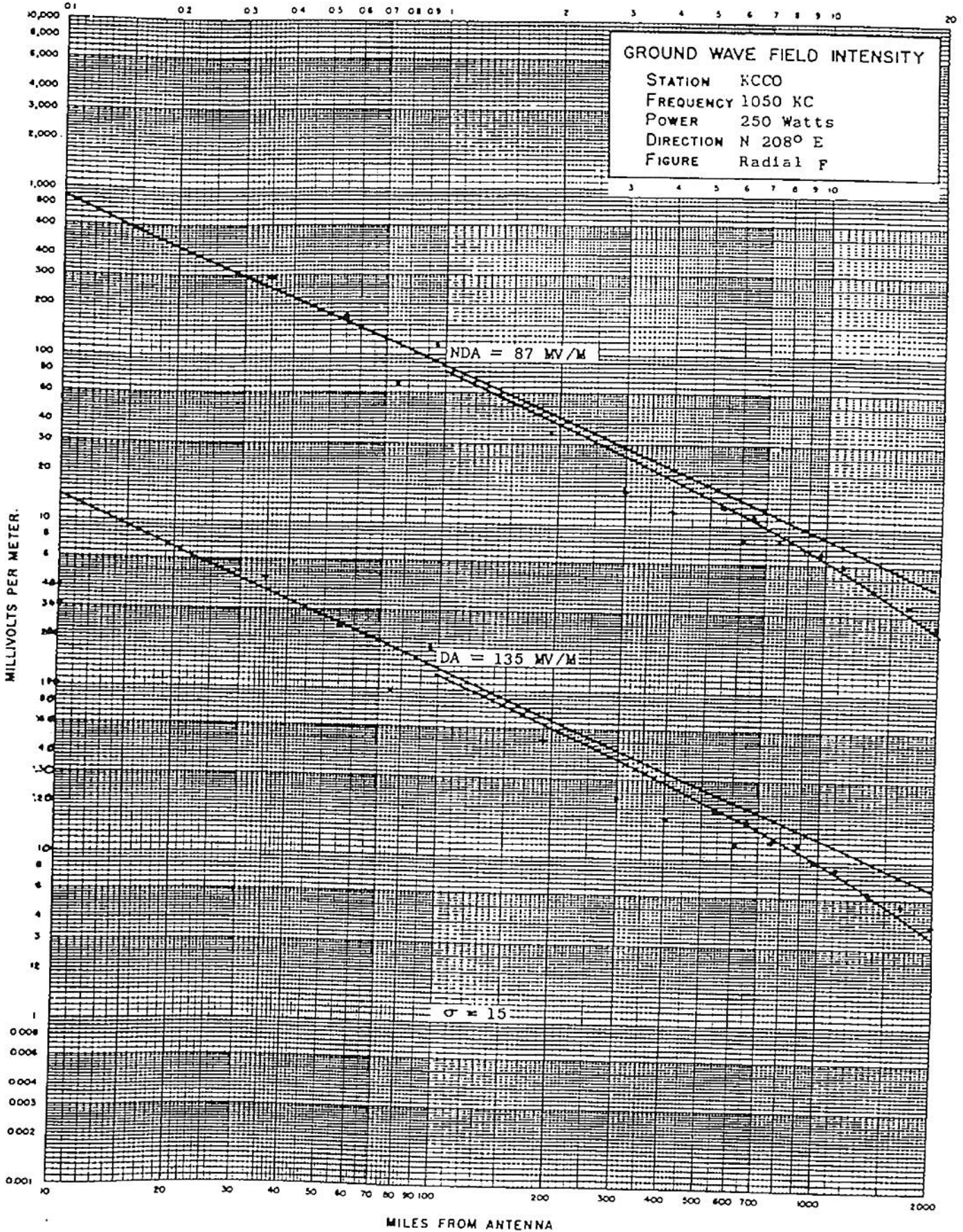
MILES FROM ANTENNA



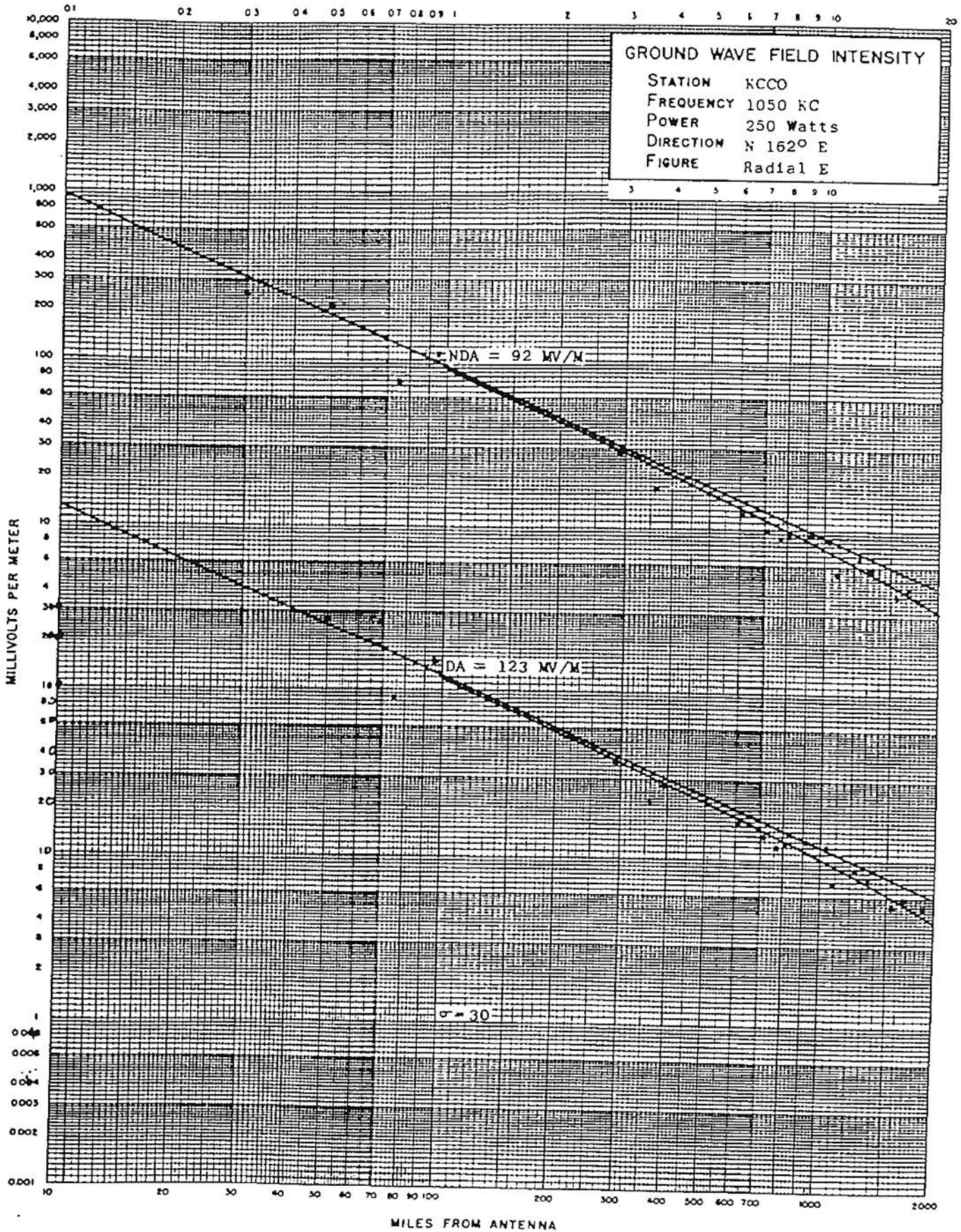
MILES FROM ANTENNA



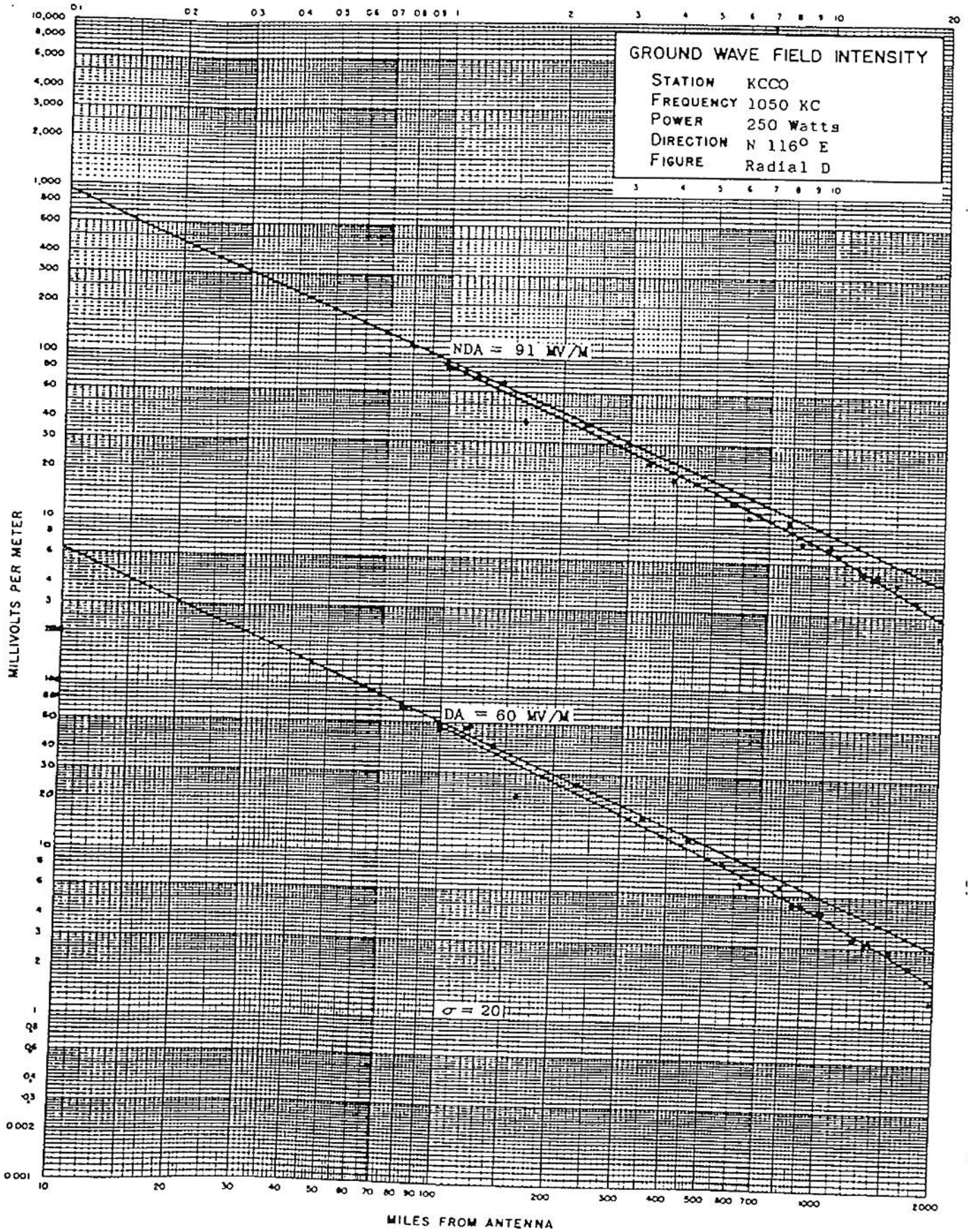
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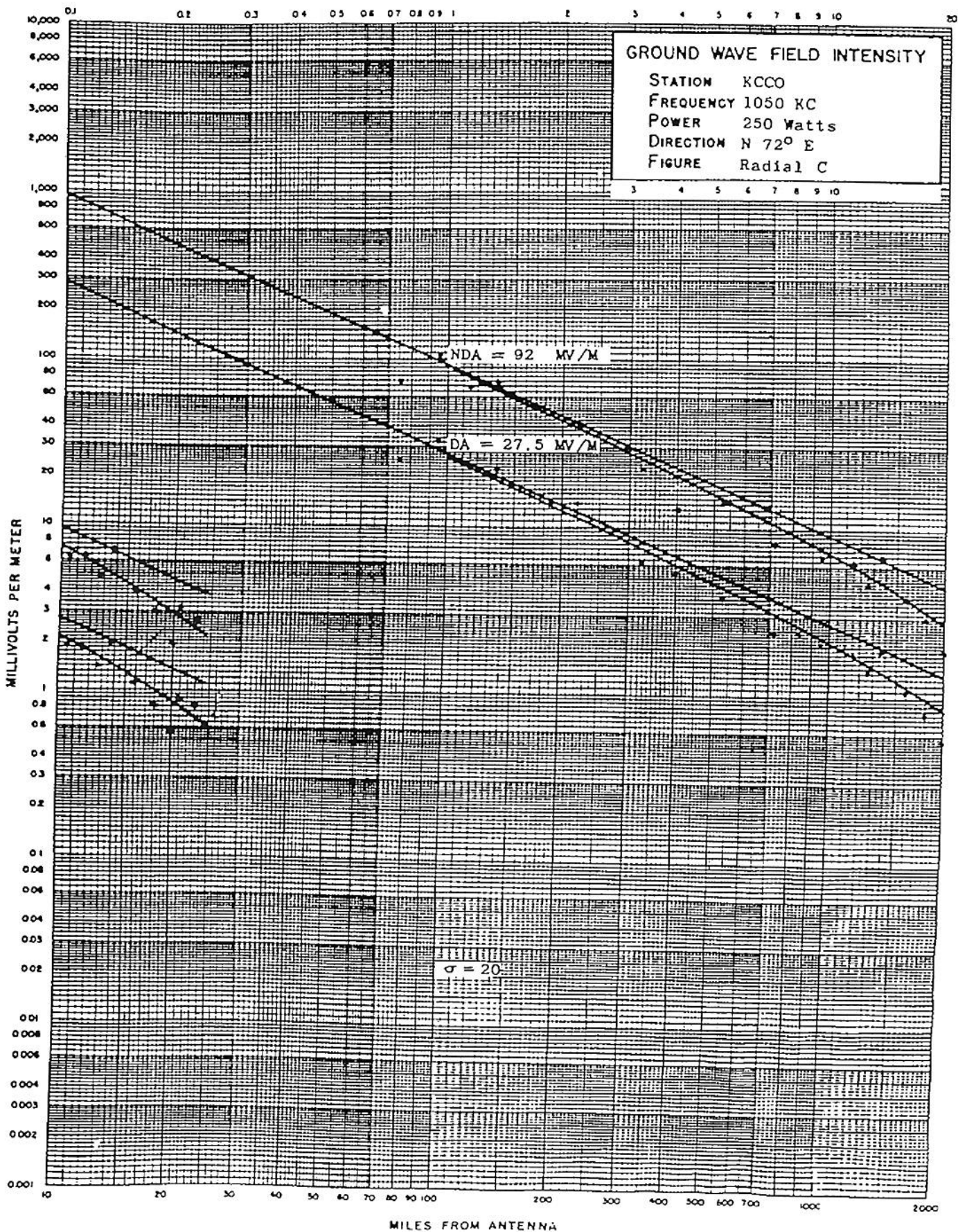
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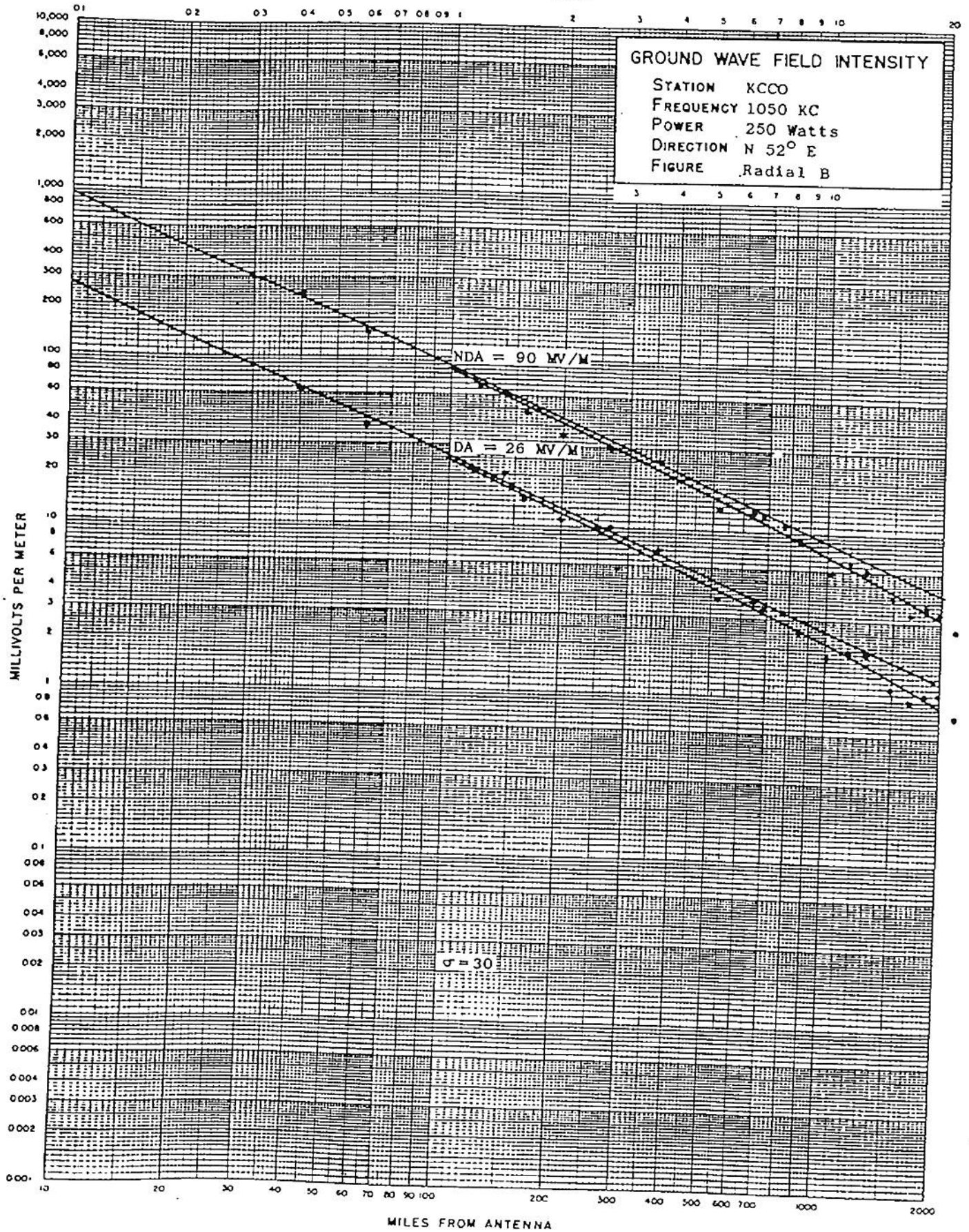
MILES FROM ANTENNA



MILES FROM ANTENNA

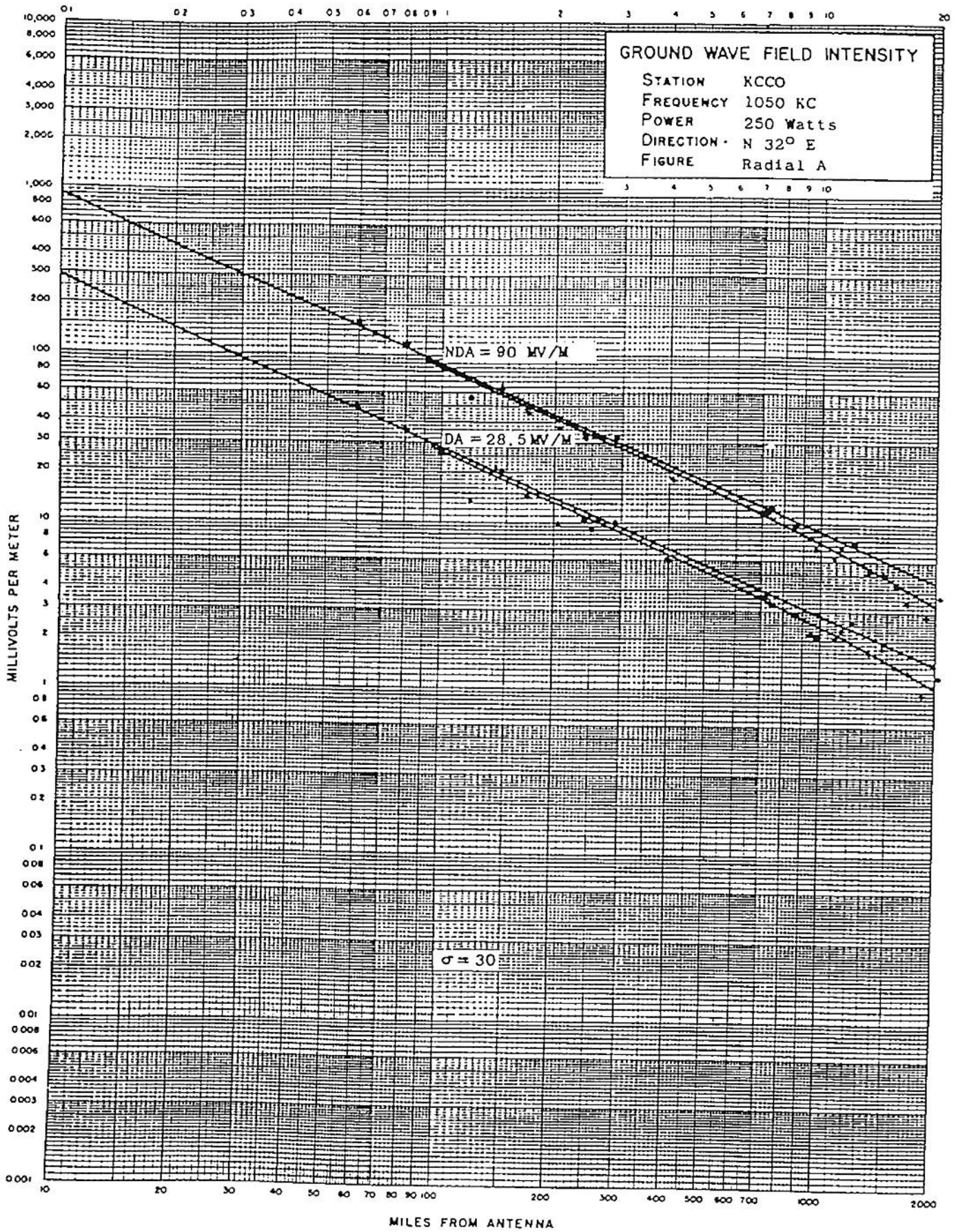


MILES FROM ANTENNA



MILES FROM ANTENNA

MILES FROM ANTENNA



RADIAL I

N 344.5° E

Point No.	Distance (miles)	Field		Ratio (DA/Non-DA)
		Non-DA	DA	
		(mv/m)		
1	0.25	399	279	.720
2	0.45	196	159	.812
3	0.65	134	103	.769
4	1.1	78	60	.769
5	1.3	63	46	.730
6	1.5	63	44	.698
7	2.3	36.5	26	.712
8	3.4	26	19	.731
9	5.3	12.5	9.8	.785
10	6.4	8.1	6.4	.791
11	7.6	2.4	2.05	.854
12	8.7	3.55	2.85	.803
13	9.7	4.7	3.75	.798
14	10.7	4.3	3.35	.779
15	11.7	4.1	3.3	.805
16	13.8	3.35	2.65	.791
17	14.5	3.75	2.9	.773
18	14.9	2.35	1.95	.830
19	15.3	2.65	2.15	.812
20	15.9	2.7	2.2	.815
				15.477
$15.477 \div 20 = .773$ $.773 \times 90 = 69.6 \text{ mv/m}$				

RADIAL H

N 296° E

Point No.	Distance (miles)	Field		Ratio (DA/Non-DA)
		Non-DA (mv/m)	DA	
1	0.45	165	225	1.36
2	0.7	138	186	1.35
3	0.9	97	133	1.37
4	1.1	76	100	1.31
5	1.4	66	87	1.32
6	2.0	45	53	1.18
7	2.2	36	52	1.44
8	2.4	28	39	1.39
9	2.7	35	45	1.29
10	3.0	26	35	1.35
11	3.3	26.3	36.2	1.38
12	3.5	26	35	1.35
13	3.8	21	27	1.29
14	4.4	18.2	25	1.37
15	4.7	22	31	1.41
16	5.1	16	22.2	1.39
17	5.7	12.4	16.3	1.31
18	6.6	14.3	18	1.12
19	7.3	12.1	16.4	1.35
20	7.7	8.5	12.1	1.42
21	17.4	10.5	14	1.33
22	18.9	7	10	1.43
23	20.1	2.9	4.2	1.45
24	22.3	8.2	11.5	1.40
25	22.7	3.2	4.4	1.37
26	23.7	2.1	3.1	1.48
35.21				
$35.21 + 26 = 1.35$ $1.35 \times 92 = 125 \text{ mv/m}$				

RADIAL G

N 253° E

Point No.	Distance (miles)	Field		Ratio (DA/Non-DA)
		Non-DA (mv/m)	DA	
1	0.4	251	373	1.47
2	0.6	152	223	1.47
3	0.8	124	174	1.40
4	1.2	75	106	1.41
5	1.8	49	73	1.49
6	2.0	37	53	1.43
7	2.5	33.8	48.7	1.44
8	3.1	26.5	40	1.51
9	4.1	21	31	1.48
10	5.1	13	20	1.54
11	6.2	12.5	19	1.52
12	7.2	13	18.5	1.42
13	8.3	9.5	14.5	1.53
14	9.3	9	13.5	1.50
15	9.7	7.2	11	1.53
16	10.4	6.9	11.4	1.65
17	11.4	7	10.5	1.50
18	12.4	5.7	8.3	1.45
19	13.1	6.3	9.3	1.48
20	14.5	5.2	7.6	1.46
21	16.6	5.0	7.3	1.46
22	17.7	3.5	5.3	1.51
23	19.8	3.2	4.8	1.50
				34.15
$34.15 \div 23 = 1.48$ $1.48 \times 93 = 138 \text{ mv/m}$				

RADIAL F

N 208° E

Point No.	Distance (miles)	Field		Ratio (DA/Non-DA)
		Non-DA	DA	
		(mv/m)		
1	0.35	288	467	1.62
2	0.55	170	241	1.42
3	0.75	68	98	1.44
4	0.95	114	179	1.57
5	1.9	35	51	1.46
6	3.0	16	23	1.44
7	4.0	12	17.5	1.46
8	4.3	20	29	1.45
9	5.4	13	20	1.54
10	6.1	8.3	12.5	1.51
11	6.5	11.5	17.0	1.48
12	7.6	8.2	13	1.59
13	8.8	7.5	12.5	1.67
14	9.7	7	10	1.43
15	11.1	6	9	1.50
16	13.4	4.3	6.4	1.49
17	15.6	3.5	5.5	1.57
18	19.9	2.6	4.1	1.58
				27.22
$27.22 \div 18 = 1.51$ $1.51 \times 87 = 132 \text{ mv/m}$				

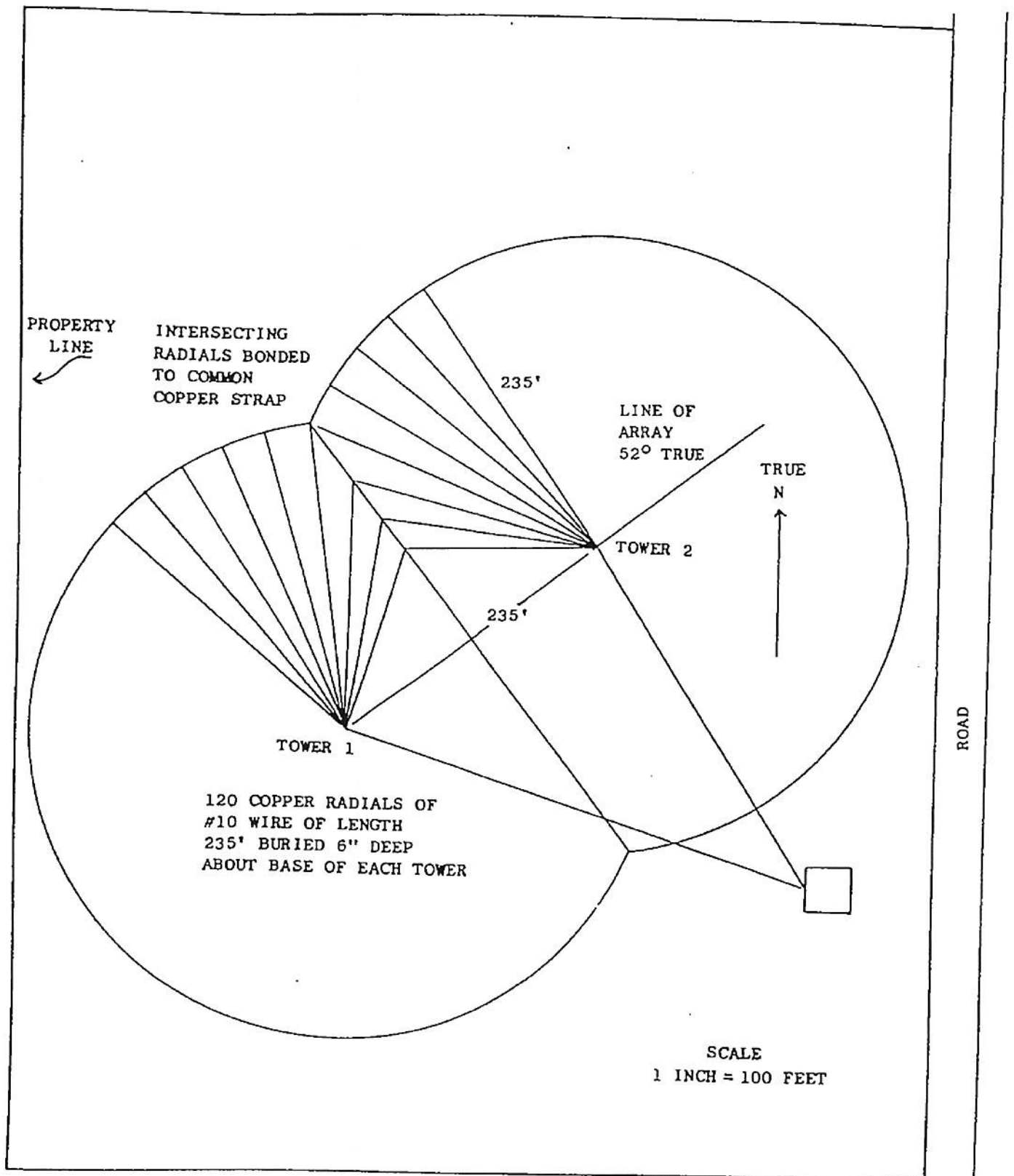


FIGURE 3

ANTENNA GROUND PLOT PLAN

KCCO - 1050 KC - LAWTON, OKLA.

250 Watts

DA - D