

APPENDIX C

WLKR FIELD STRENGTH MEASUREMENTS

Extracted from WLKR 1967 full
proof of performance (BL-11015)

FIGURE 8

TABULATION OF FIELD INTENSITY MEASUREMENTS

10° T. RADIAL - WLKR

<u>POINT</u>	<u>Mv/M NON-DA</u>	<u>Mv/M DA</u>	<u>RATIO</u>	<u>MILES</u>
1	299	--	--	0.16
2	195	--	--	0.26
3	140	--	--	0.36
4	118	--	--	0.45
5	75	12	0.1600	0.70
6	68	10.5	0.1541	0.75
7	38.5	--	--	0.86
8	44.5	12.5	(0.2809)	1.00
9	40.	8.9	0.2225	1.04
<u>10</u>	33.8	<u>6.6-MP</u>	0.1953	<u>1.22</u>
11	31.5	7.3	0.2317	1.26
12	33.8	3.55	(0.1050)	1.31
13	33	3.5	(0.1061)	1.41
14	28.7	3.35	0.1167	1.51
15	25	5.05	0.2020	1.62
16	23.8	4.7	0.1975	1.63
17	23.4	3.9	0.1667	1.73
18	22.5	2.6	0.1156	1.83
19	23.5	1.55	(0.0660)	1.93
20	19	2.2	0.1158	2.03
21	21	4.4	0.2095	2.10
22	18.5	3.8	0.2054	2.18
23	13.5	2.0	0.1481	2.96
24	10.8	2.28	0.2111	3.74
25	6.5	1.34	0.2062	5.50
26	6	1.18	0.1967	5.68
27	5.2	0.93	0.1789	6.82
28	4.35	0.48	(0.1103)	7.90
29	3.7	0.44	0.1189	8.33
30	2.55	0.30	0.1176	9.29
31	2.85	0.27	(0.0947)	9.52
32	2.31	0.29	0.1255	10.71

Average Ratio 0.1712 x 80 = 13.7 *myr*
 (Ratios in brackets were not included in Average Ratio) *this 13.8*

MILES FROM ANTENNA

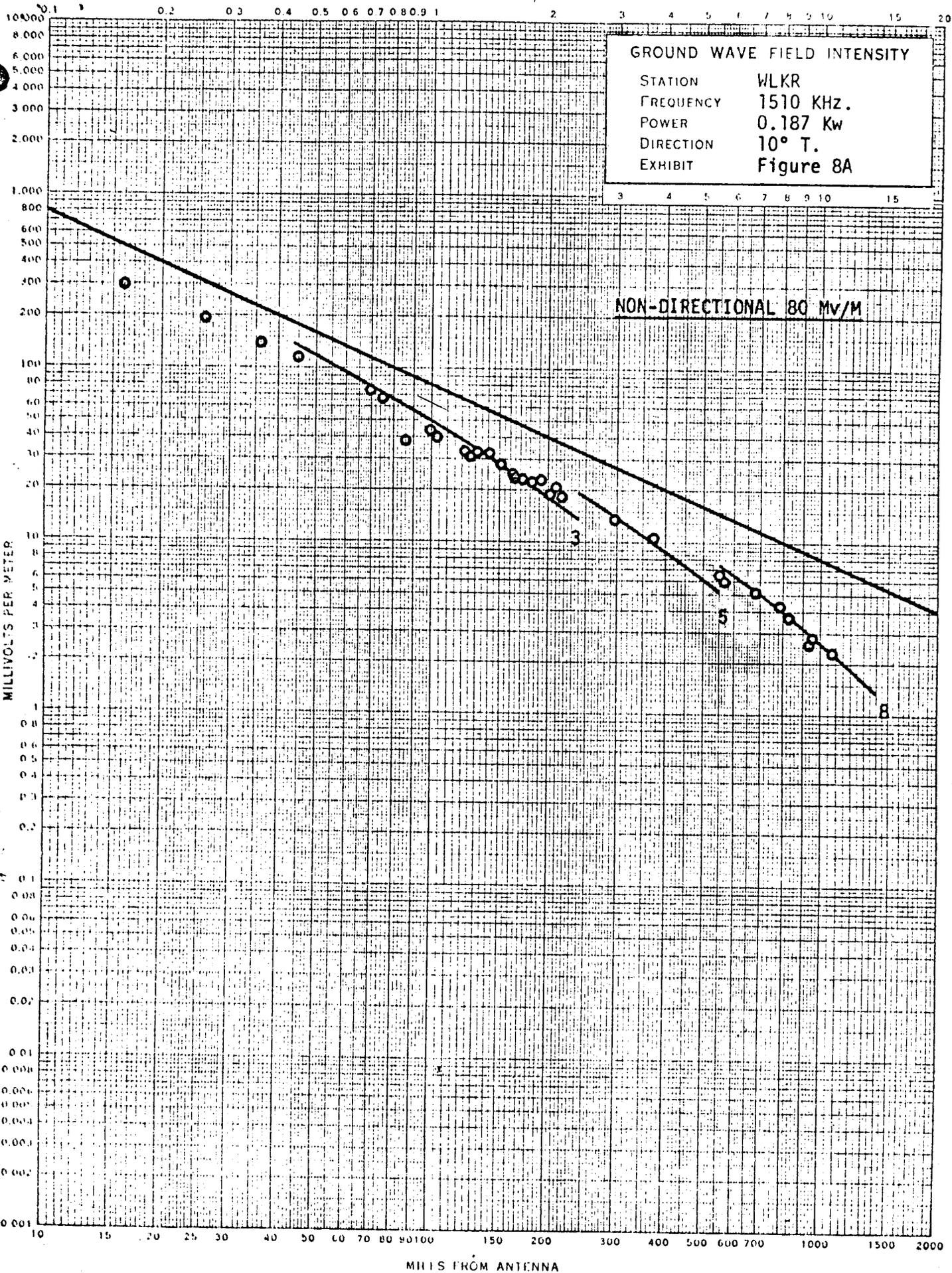


FIGURE 14

TABULATION OF FIELD INTENSITY MEASUREMENTS

220° T. RADIAL - WLKR

<u>POINT</u>	<u>Mv/M NON-DA</u>	<u>Mv/M DA</u>	<u>RATIO</u>	<u>MILES</u>
1	325	--	--	0.19
2	212	--	--	0.29
3	117.3	--	--	0.39
4	113.8	--	--	0.46
5	111.4	13.5	0.1212	0.56
6	100	10	0.1000	0.66
7	90	9.2	0.1022	0.76
8	76.1	7.5	0.0986	0.81
9	68	7.2	0.1059	0.92
10	58.5	7.1	0.1214	1.01
11	59	5.8	0.0983	1.12
12	57	4.2	0.0737	1.20
13	52	5.8	0.1115	1.29
14	51.7	5.7	0.1103	1.40
15	48.5	4.4	0.0907	1.42
16	45	4.3	0.0956	1.51
17	42.9	2.65	0.0618	1.61
18	38.3	3.35	0.0875	1.71
19	40	2.4	0.0600	1.81
20	41.8	3.6-MP	0.0861	1.83
21	31.8	1.57	(0.0494)	1.92
22	30	1.20	(0.0400)	2.00
23	18	1.12	0.0622	3.24
24	11	0.62	0.0564	3.35
25	13	0.622	(0.0477)	3.78
26	7.5	0.2	(0.0267)	5.24
27	7	0.58	0.0829	6.19
28	6.3	0.56	0.0889	6.92
29	5	0.39	0.0780	7.89
30	4	0.37	0.0925	9.06
31	4	0.34	0.0850	9.16
32	3.1	0.36	0.1161	10.64
33	2.35	0.28	0.1191	12.37
34	2.22	0.24	0.1081	12.93
35	2.35	0.155	0.0660	13.96
36	1.82	0.07	(0.0385)	15.12
37	1.4	0.162	0.1157	16.70
38	0.85	0.115	0.1353	18.33
39	1.1	0.135	0.1227	19.26

Average Ratio 0.0943
 (Ratios in brackets were not
 included in Average Ratio)

MILES FROM ANTENNA

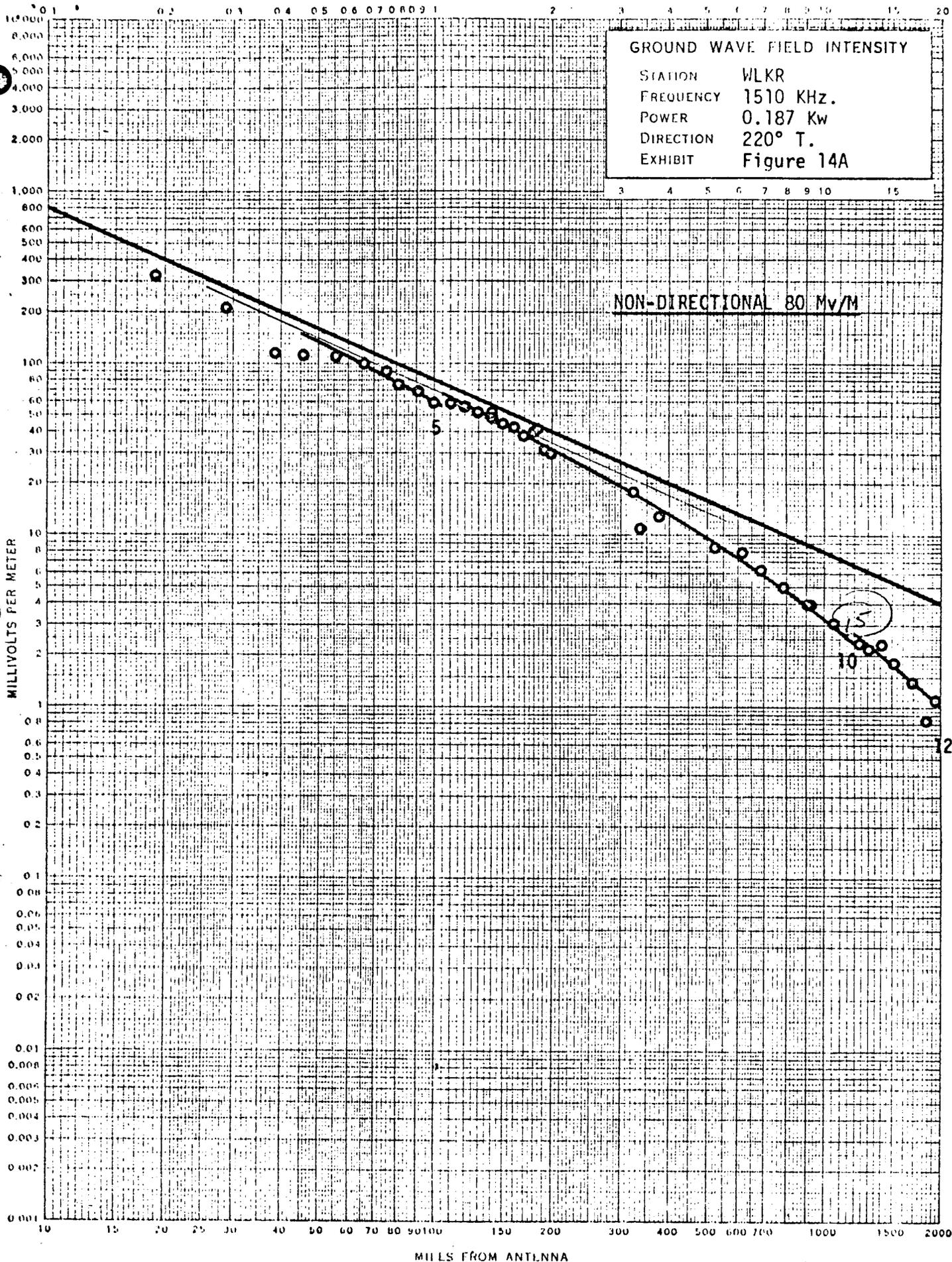


FIGURE 15

TABULATION OF FIELD INTENSITY MEASUREMENTS

263° T. RADIAL - WLKR

<u>POINT</u>	<u>Mv/M</u> <u>NON-DA</u>	<u>Mv/M</u> <u>DA</u>	<u>RATIO</u>	<u>MILES</u>
1	475	--	--	0.18
2	310	--	--	0.28
3	272	--	--	0.30
4	211	--	--	0.39
5	168	--	--	0.49
6	140	12	0.0857	0.58
7	115	11	0.0957	0.70
8	103	11.5	0.1117	0.77
9	93	9.4	0.1011	0.87
10	77	7.4	0.0961	0.97
11	69	5.1	0.0739	1.08
12	73.5	5.9	0.0803	1.14
13	70	5.8	0.0829	1.20
14	51	3.3	0.0647	1.28
15	56	3.1	0.0554	1.39
16	46	2.5	0.0543	1.42
17	49	3.2	0.0653	1.49
18	46	4.3	0.0935	1.59
19	42.3	4.1	0.0969	1.69
20	40	3.3	0.0825	1.79
21	38.5	4.0-MP	0.1039	1.89
22	37	3.3	0.0892	1.99
23	9	1.65	(0.1833)	3.42
24	10	0.84	0.0840	5.38
25	8.5	0.71	0.0835	5.83
26	7.1	0.74	0.1042	7.28
27	5.3	0.47	0.0887	7.97
28	3.5	0.51	(0.1457)	9.28
29	4.6	0.40	0.08696	10.74
30	3.1	0.38	0.1226	11.78
31	2.6	0.25	0.0962	12.80
32	2.2	0.25	0.1136	13.82
33	2.3	0.22	0.0957	14.82
34	2.1	0.22	0.1048	15.85
35	2.05	0.23	0.1122	16.88
36	1.5	0.19	0.1267	17.71
37	1.15	0.16	0.1391	19.48

Average Ratio 0.0921
 (Ratios in brackets were not included, in Average Ratio)

MIL'S FROM ANTENNA

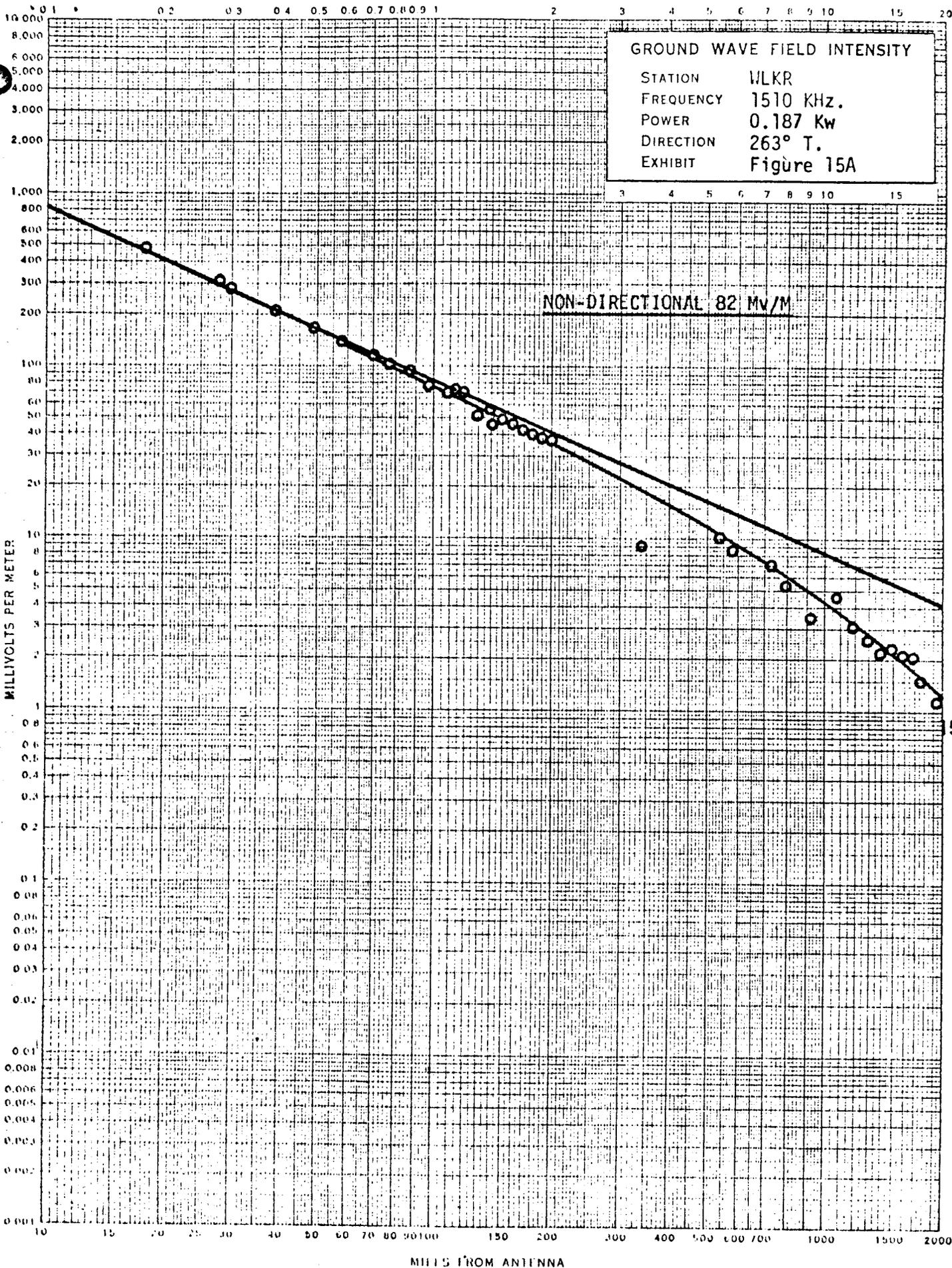


FIGURE 16

TABULATION OF FIELD INTENSITY MEASUREMENTS

295° T. RADIAL - WLKR

<u>POINT</u>	<u>Mv/M NON-DA</u>	<u>Mv/M DA</u>	<u>RATIO</u>	<u>MILES</u>
1	430	--	--	0.19
2	263	--	--	0.31
3	190	--	--	0.43
4	147	--	--	0.54
5	122	25.5	(0.2090)	0.61
6	100	25	0.2500	0.71
7	100	21	0.2100	0.81
8	68	16	0.2353	1.16
9	56	13.5	0.2411	1.24
10	52	13	0.2500	1.28
11	49	12.2	0.2490	1.37
12	46	11	0.2391	1.50
13	44.5	11	0.2472	1.61
14	43	11	0.2558	1.68
15	39.5	11	0.2785	1.80
16	36	10.2	0.2833	1.90
17	35	9.3	0.2657	2.00
18	34	8	0.2353	2.08
19	31	8.8	(0.2839)	2.10
20	18.5	5.6	0.3027	3.30
21	11	3.2	0.2909	4.87
22	7	1.65	0.2357	6.50
23	3.74	1.2	0.3209	7.31
24	3.2	1.0	0.3125	10.06
25	2.28	0.72	0.3158	10.82
26	2.01	0.64	0.3184	12.49
27	1.75	0.50	0.2857	12.77
28	1.9	0.52	0.2737	13.80
29	1.4	0.39	0.2786	15.27
30	1.28	0.42	0.3281	16.09
31	1.18	0.27	0.2288	17.44
32	1.05	0.27	0.2571	18.28
33	1.0	0.35	(0.3500)	18.80
34	0.55	0.34	(0.6182)	19.62

Average Ratio 0.2672
 (Ratios in brackets were not
 included in Average Ratio)

MILLS FROM ANTENNA

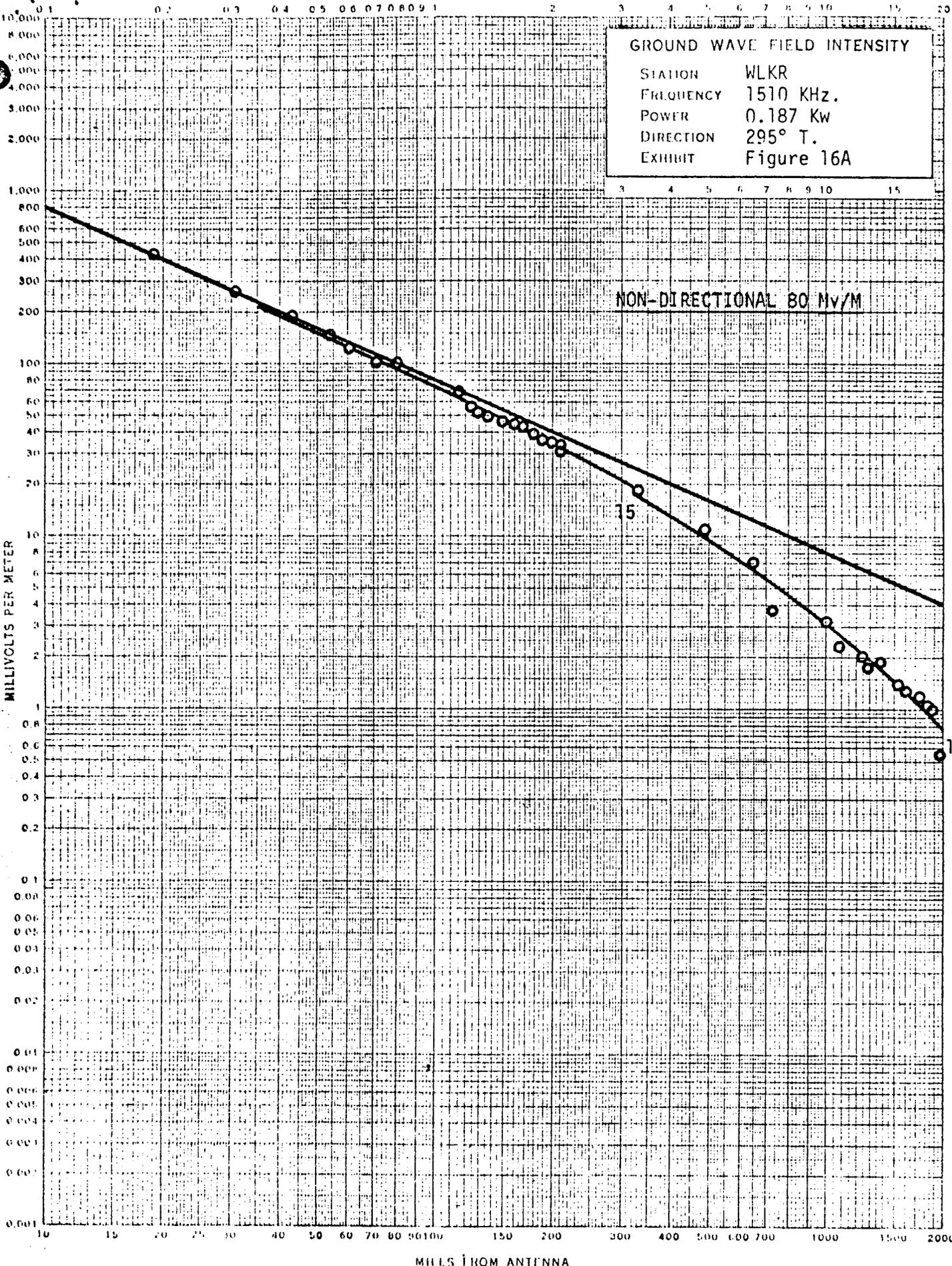


FIGURE 17

TABULATION OF FIELD INTENSITY MEASUREMENTS

328° T. RADIAL - WLKR

<u>POINT</u>	<u>Mv/M NON-DA</u>	<u>Mv/M DA</u>	<u>RATIO</u>	<u>MILES</u>
1	343	--	--	0.18
2	213	--	--	0.28
3	117	--	--	0.41
4	111	--	--	0.51
5	105	20	(0.1905)	0.60
6	108	16	0.1482	0.68
7	80	9.7	0.1213	0.81
8	74	9.7	0.1311	0.90
9	80	9.8	0.1225	0.95
10	71.2	9.8	0.1376	1.01
11	64	9.5	0.1484	1.09
12	57	9.4	0.1649	1.19
13	53.5	8.4	0.1570	1.29
14	51	7.8	0.1529	1.34
15	47	7.0	0.1489	1.49
16	47	7.7-MP	0.1638	1.59
17	44	7.1	0.1614	1.66
18	40.8	7.0	0.1716	1.72
19	34.8	5.1	0.1466	1.83
20	32	4.9	0.1531	1.91
21	31.9	4.7	0.1473	2.00
22	30.8	4.5	0.1461	2.11
23	29.5	5.8	(0.1966)	2.32
24	17.3	2.9	0.1676	3.49
25	13	1.9	0.1462	4.31
26	10.5	1.0	0.0952	5.04
27	8.1	0.68	0.0840	6.00
28	7.6	0.68	0.0895	7.08
29	5.9	0.44	0.0746	7.55
30	5.9	0.19	(0.0322)	8.26
31	4.35	0.29	0.0667	9.56
32	2.8	0.15	(0.0536)	10.78
33	2.9	0.125	(0.0431)	11.95
34	2.55	0.10	(0.0392)	13.02
35	2.2	0.12	(0.0545)	15.38
36	2.2	0.125	(0.0568)	17.48
37	1.65	0.085	(0.0515)	18.36
38	1.5	--	--	19.35
39	1.38	--	--	20.29

Average Ratio 0.1353
(Ratios in brackets were not
included in Average Ratio)

MILES FROM ANTENNA

GROUND WAVE FIELD INTENSITY

STATION WLKR
FREQUENCY 1510 KHz.
POWER 0.187 Kw
DIRECTION 328° T.
EXHIBIT Figure 17A

NON-DIRECTIONAL 80 MV/M

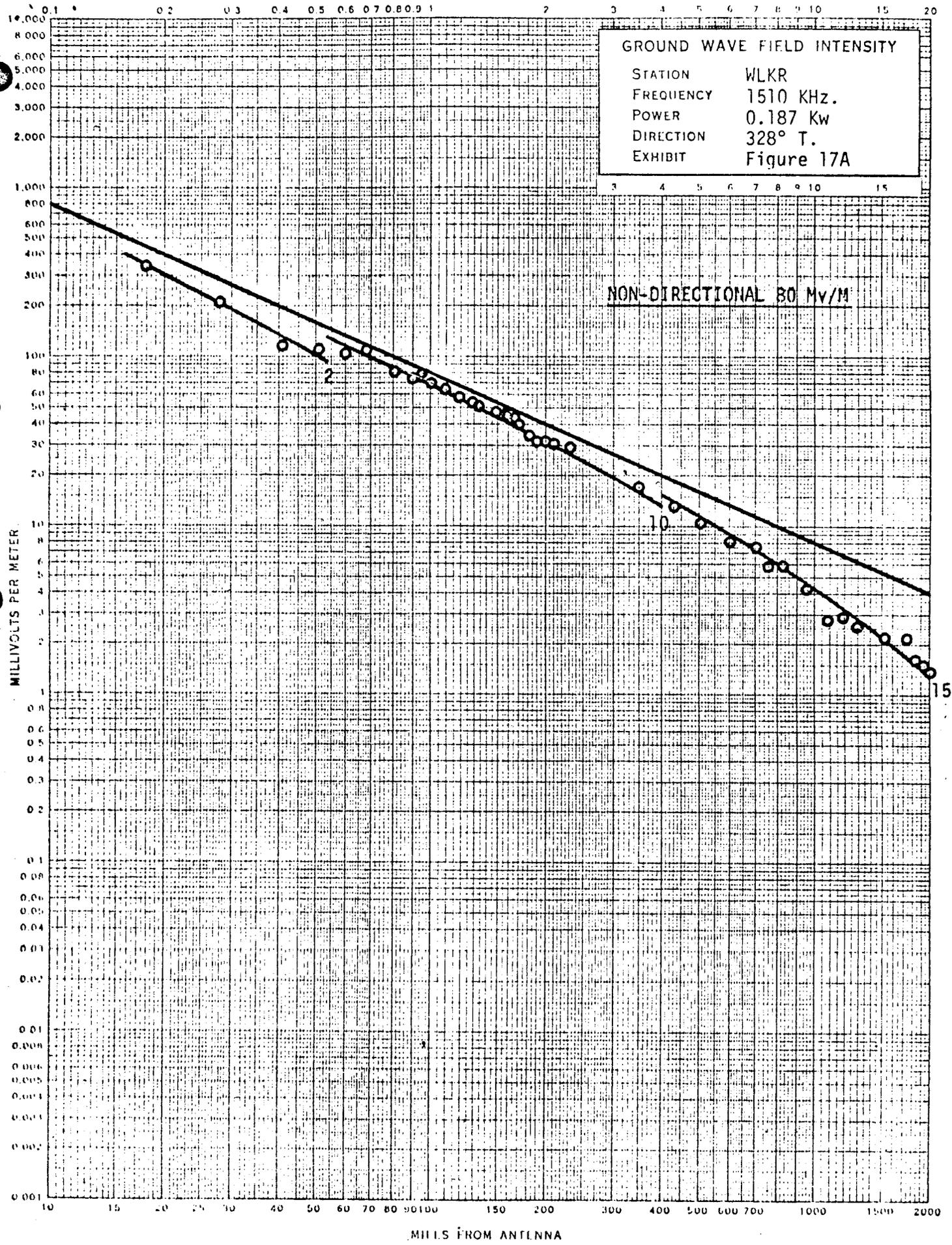


FIGURE 18

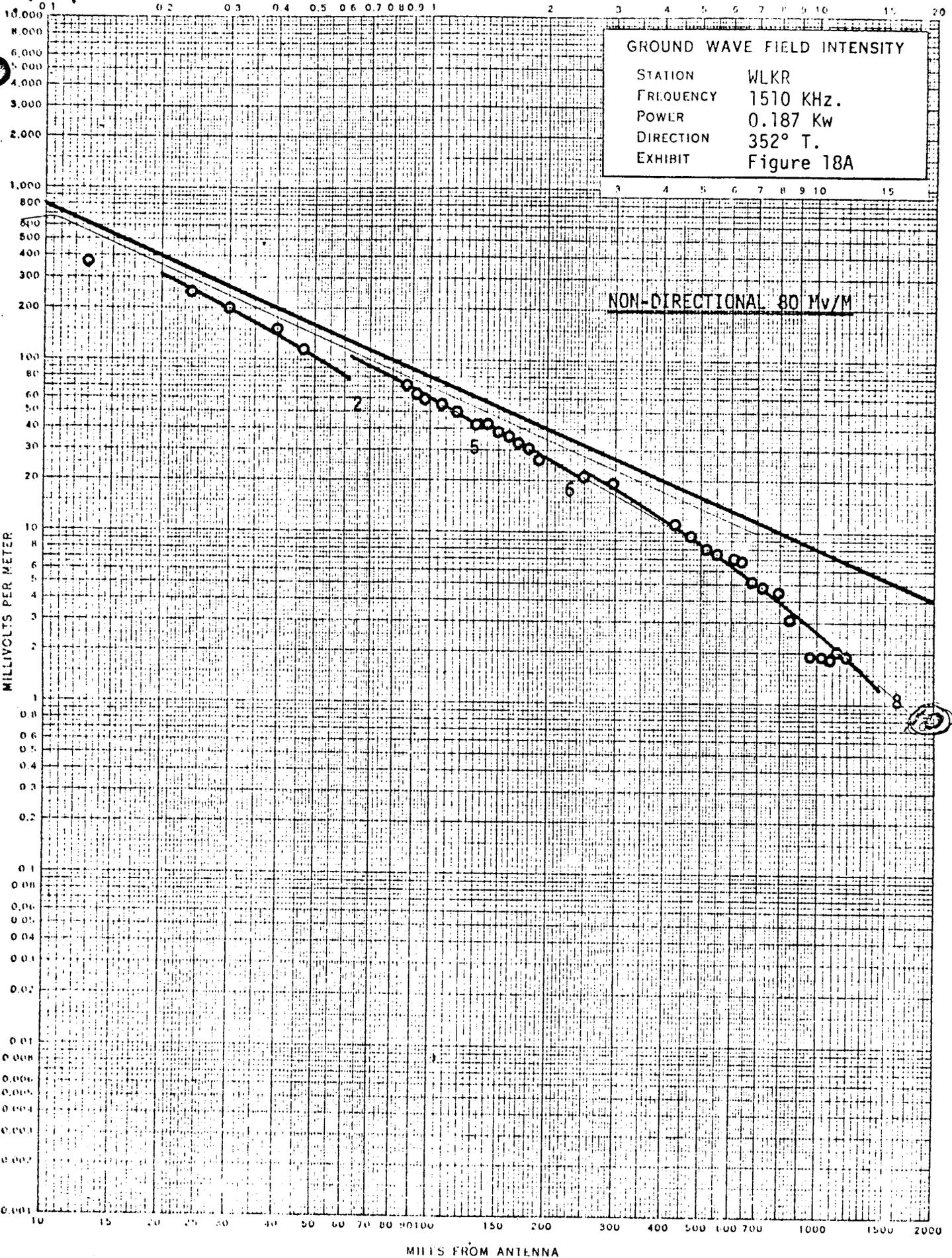
TABULATION OF FIELD INTENSITY MEASUREMENTS

352° T. RADIAL - WLKR

<u>POINT</u>	<u>Mv/M NON-DA</u>	<u>Mv/M DA</u>	<u>RATIO</u>	<u>MILES</u>
1	369	--	--	0.13
2	248	--	--	0.24
3	200	--	--	0.30
4	150	--	--	0.40
5	116	--	--	0.47
6	71.7	7.65	0.1067	0.88
7	63.5	8	0.1260	0.93
8	59	8.65	0.1466	0.97
9	56	9.2	0.1643	1.07
10	50	9.4	0.1880	1.17
11	42	5.7	0.1357	1.32
12	42	4.3	0.1024	1.41
13	38.5	3.9	0.1013	1.51
14	36.2	5.9	0.1630	1.61
15	33.3	6.3	0.1892	1.71
16	30.8	5.8	0.1883	1.81
17	26.5	4.3	0.1622	1.92
18	21	3.5	0.1667	2.48
19	19	2.8	0.1474	2.96
20	11	0.95	0.0864	4.31
21	9.6	0.81	0.0838	4.71
22	8.1	0.80	0.0988	5.19
23	7.5	0.62	0.0827	5.52
24	7.1	0.82	0.0866	6.12
25	6.8	0.86	0.1265	6.40
26	5.1	0.80	0.1569	6.82
27	4.8	0.71	0.1479	7.23
28	3.5	0.43	0.1229	7.96
29	3.1	0.38	0.1226	8.49
30	1.9	0.21	0.1105	9.65
31	1.9	0.16	0.0842	10.29
32	1.85	0.12	(0.0649)	10.82
33	2.05	0.12	(0.0585)	11.32
34	1.9	0.18	0.0947	11.96

Average Ratio 0.1293
 (Ratios in brackets were not
 included in Average Ratio)

MILES FROM ANTENNA



MILES FROM ANTENNA