

Exhibit 15.4f

WMKT - 105.0° (day)

MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, Michigan 49036

Figure
Page 1 of 1

| Tabulation of Field Strength Measurements | | | | | | | | | |
|--|------|--------------|-------------|------|------|------|----------------|-------|---------|
| Call: WMKT Frequency(kHz): 1270 Bearing: 105.0° Power(kW): 5.000 | | | | | | | | | |
| Point ### | mV/m | Meas Time | Con Date | mV/m | Time | Date | Distance km | Ratio | MP * |

| | | | | | | | | | |
|----|--------|------|----------|--|--|--|--------|--|--|
| 1 | 68.000 | 0942 | 10-04-01 | | | | 4.64 | | |
| 2 | 35.000 | 0926 | 10-04-01 | | | | 6.65 | | |
| 3 | 22.000 | 0922 | 10-04-01 | | | | 9.14 | | |
| 4 | 6.400 | 0916 | 10-04-01 | | | | 11.80 | | |
| 5 | 6.800 | 0859 | 10-04-01 | | | | 15.60 | | |
| 6 | 4.400 | 0855 | 10-04-01 | | | | 17.10 | | |
| 7 | 2.300 | 0848 | 10-04-01 | | | | 19.70 | | |
| 8 | 0.850 | 0841 | 10-04-01 | | | | 23.00 | | |
| 9 | 0.700 | 0817 | 10-04-01 | | | | 26.50 | | |
| 10 | 0.580 | 0827 | 10-04-01 | | | | 29.30 | | |
| 11 | 0.340 | 1657 | 10-03-01 | | | | 39.10 | | |
| 12 | 0.220 | 1637 | 10-03-01 | | | | 48.60 | | |
| 13 | 0.135 | 1618 | 10-03-01 | | | | 59.90 | | |
| 14 | 0.130 | 1557 | 10-03-01 | | | | 68.40 | | |
| 15 | 0.072 | 1526 | 10-03-01 | | | | 80.90 | | |
| 16 | 0.068 | 1515 | 10-03-01 | | | | 88.20 | | |
| 17 | 0.044 | 1451 | 10-03-01 | | | | 99.70 | | |
| 18 | 0.024 | 1419 | 10-03-01 | | | | 122.00 | | |
| 19 | 0.016 | 1338 | 10-03-01 | | | | 146.00 | | |

Average Arithmetic Ratio = 0.0000
Average Logarithmic Ratio = 0.0000



Exhibit 15.4f

WMKT - 105.0° (day)

Meas. Con.

GROUND WAVE FIELD STRENGTH
VERSUS
DISTANCE

STATION : WMKT
FREQUENCY: 1270 kHz
POWER : 5.000 kW
DIRECTION: 105.0 Deg.
EXHIBIT :

1250-1330 kHz

Curves computed for 1290 kHz

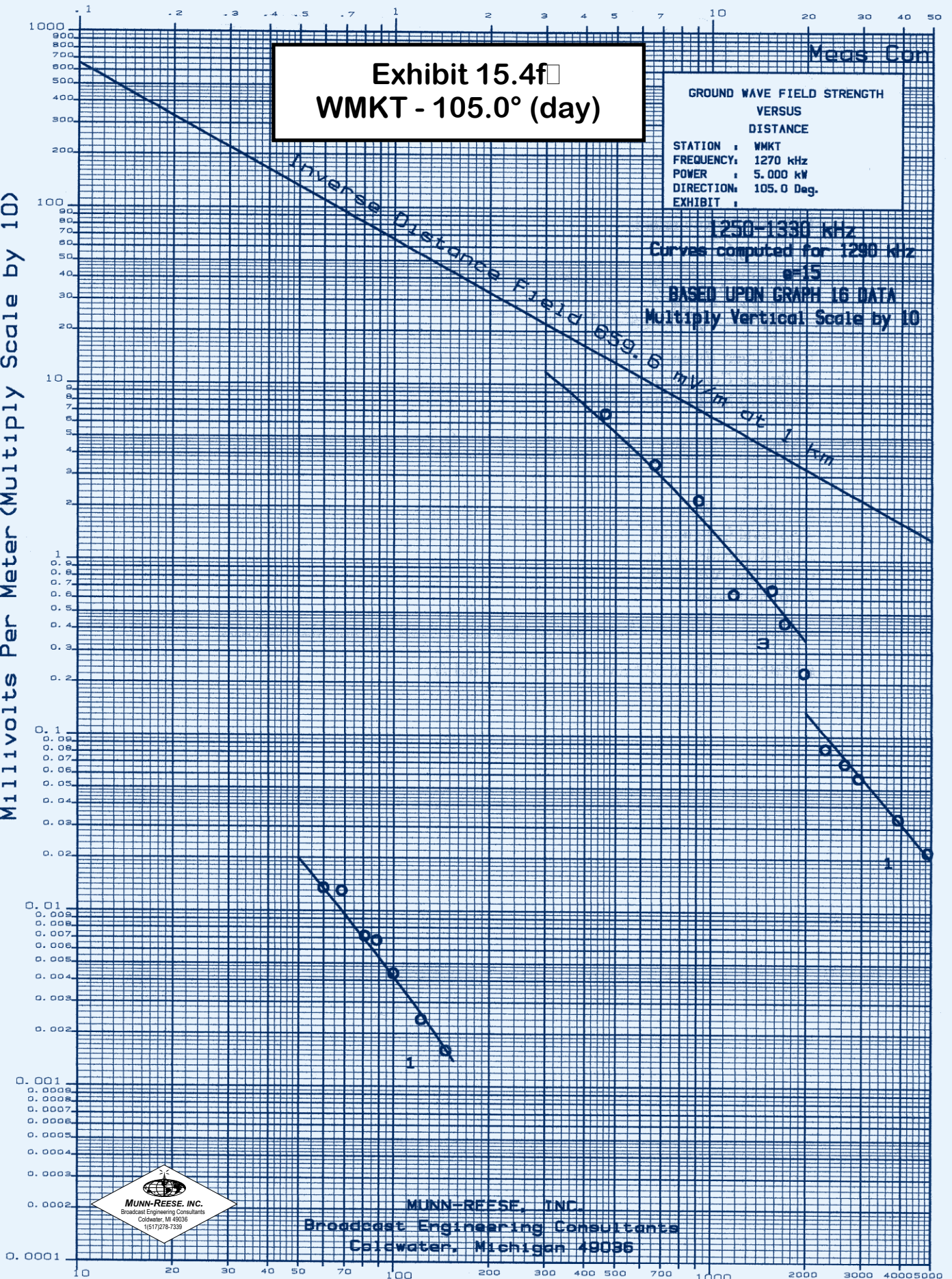
$\epsilon=15$

BASED UPON GRAPH 16 DATA

Multiply Vertical Scale by 10

Inverse Distance Field 659.6 mV/km at 1 km

Millivolts Per Meter (Multiply Scale by 10)



MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, Michigan 49036

Kilometers From Antenna

Exhibit 15.4g

WMKT - 125.0° (day)

Broadcast Engineering Consultants
Coldwater, Michigan 49036

Figure
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| Tabulation of Field Strength Measurements | | | | | | |
|--|----------|--------------|-------------|------|------------------------------------|---------|
| Call: WMKT Frequency(kHz): 1270 Bearing: 125.0° Power(kW): 5.000 | | | | | | |
| Point ### | mV/m | Meas Time | Con Date | mV/m | Time | Date |
| | | | | | Distance km | Ratio |
| | | | | | | MP * |
| 1 | 1565.000 | 1445 | 10-02-01 | | 0.32 | |
| 2 | 1150.000 | 1440 | 10-02-01 | | 0.41 | |
| 3 | 1080.000 | 1430 | 10-02-01 | | 0.53 | |
| 4 | 780.000 | 1450 | 10-02-01 | | 0.71 | |
| 5 | 570.000 | 1454 | 10-02-01 | | 0.91 | |
| 6 | 250.000 | 1506 | 10-02-01 | | 1.83 | |
| 7 | 235.000 | 1505 | 10-02-01 | | 1.91 | |
| 8 | 218.000 | 1502 | 10-02-01 | | 1.97 | |
| 9 | 195.000 | 1510 | 10-02-01 | | 2.06 | |
| 10 | 135.000 | 1525 | 10-02-01 | | 2.90 | |
| 11 | 149.000 | 1515 | 10-02-01 | | 3.03 | |
| 12 | 118.000 | 1531 | 10-02-01 | | 3.37 | |
| 13 | 80.000 | 1538 | 10-02-01 | | 4.59 | |
| 14 | 72.000 | 1537 | 10-02-01 | | 4.84 | |
| 15 | 32.000 | 1544 | 10-02-01 | | 6.75 | |
| 16 | 25.200 | 1547 | 10-02-01 | | 7.43 | |
| 17 | 12.500 | 1551 | 10-02-01 | | 8.18 | |
| 18 | 18.500 | 1614 | 10-02-01 | | 9.79 | |
| 19 | 12.100 | 1656 | 10-02-01 | | 11.40 | |
| 20 | 11.500 | 1700 | 10-02-01 | | 13.10 | |
| 21 | 4.600 | 1706 | 10-02-01 | | 14.90 | |
| 22 | 3.200 | 1711 | 10-02-01 | | 17.30 | |
| 23 | 2.400 | 1717 | 10-02-01 | | 20.30 | |
| 24 | 1.350 | 0836 | 10-03-01 | | 26.00 | |
| 25 | 0.410 | 0905 | 10-03-01 | | 41.70 | |
| 26 | 0.310 | 0910 | 10-03-01 | | 45.40 | |
| 27 | 0.155 | 0917 | 10-03-01 | | 50.00 | |
| 28 | 0.141 | 0935 | 10-03-01 | | 57.50 | |
| 29 | 0.112 | 0957 | 10-03-01 | | 67.10 | |
| 30 | 0.090 | 1009 | 10-03-01 | | 77.90 | |
| 31 | 0.058 | 1028 | 10-03-01 | | 89.40 | |
| 32 | 0.056 | 1040 | 10-03-01 | | 98.00 | |
| 33 | 0.037 | 1100 | 10-03-01 | | 112.00 | |
| 34 | 0.028 | 1112 | 10-03-01 | | 122.00 | |
| 35 | 0.023 | 1139 | 10-03-01 | | 142.00 | |
| | | | | | Average Arithmetic Ratio = 0.0000 | |
| | | | | | Average Logarithmic Ratio = 0.0000 | |

Meas Con

Exhibit 15.4g WMKT - 125.0° (day)

GROUND WAVE FIELD STRENGTH
VERSUS
DISTANCE
STATION : WMKT
FREQUENCY: 1270 kHz
POWER : 5.000 kW
DIRECTION: 125.0 Deg.
EXHIBIT :

1250-1330 kHz
Curves computed for 1290 kHz
-15
BASED UPON GRAPH 16 DATA
Multiply Vertical Scale by 10

Millivolts Per Meter (Multiply Scale by 10)

Inverse Distance Field 659.6 mV/km at 1 km

2
1.5

1.5



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Broadcast Engineering Consultants
Coldwater, Michigan 49036

Kilometers From Antenna

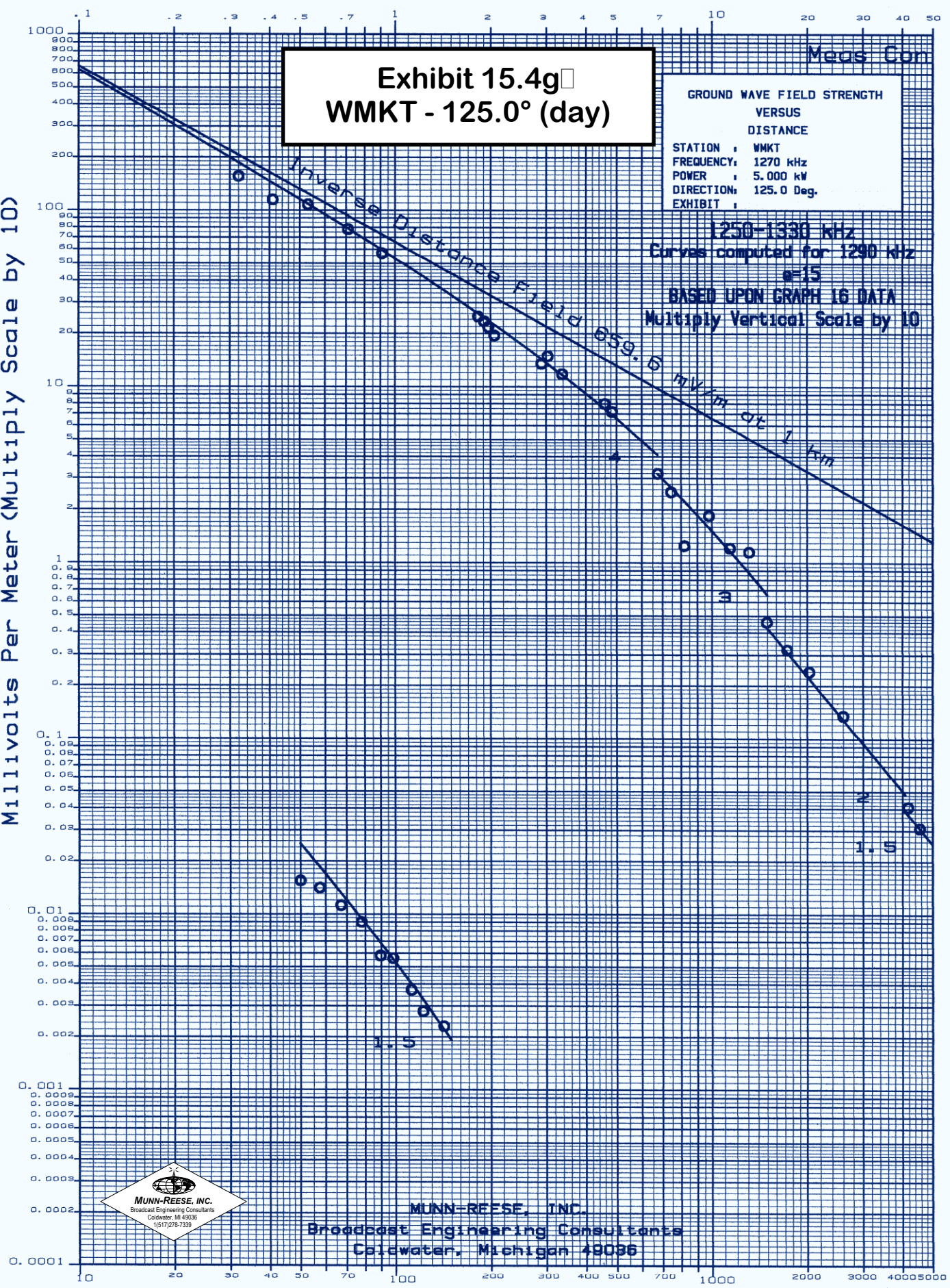


Exhibit 15.4h

WMKT - 145.0° (day)

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Coldwater, Michigan 49036

Figure
Page 1 of 1

| Tabulation of Field Strength Measurements | | | | | | | | |
|--|--------|--------------|-------------|------|------|------|-----------------------------|------------------|
| Call: WMKT Frequency(kHz): 1270 Bearing: 145.0° Power(kW): 5.000 | | | | | | | | |
| Point ### | mV/m | Meas Time | Con Date | mV/m | Time | Date | Distance km | Ratio MP * |
| 1 | 29.500 | 0950 | 10-04-01 | | | | 6.89 | |
| 2 | 33.000 | 0952 | 10-04-01 | | | | 7.22 | |
| 3 | 13.800 | 0956 | 10-04-01 | | | | 9.56 | |
| 4 | 10.300 | 1001 | 10-04-01 | | | | 11.70 | |
| 5 | 8.900 | 1011 | 10-04-01 | | | | 16.40 | |
| 6 | 6.200 | 1016 | 10-04-01 | | | | 18.00 | |
| 7 | 5.100 | 1022 | 10-04-01 | | | | 19.90 | |
| 8 | 1.850 | 1030 | 10-04-01 | | | | 24.60 | |
| 9 | 0.940 | 1041 | 10-04-01 | | | | 29.10 | |
| 10 | 0.950 | 1047 | 10-04-01 | | | | 31.10 | |
| 11 | 0.360 | 1113 | 10-04-01 | | | | 34.80 | |
| 12 | 0.330 | 1138 | 10-04-01 | | | | 40.90 | |
| 13 | 0.170 | 1211 | 10-04-01 | | | | 46.60 | |
| 14 | 0.180 | 1153 | 10-04-01 | | | | 50.70 | |
| 15 | 0.120 | 1241 | 10-04-01 | | | | 62.60 | |
| 16 | 0.140 | 1250 | 10-04-01 | | | | 68.20 | |
| 17 | 0.070 | 1306 | 10-04-01 | | | | 80.70 | |
| 18 | 0.035 | 1445 | 10-04-01 | | | | 110.00 | |
| 19 | 0.022 | 1515 | 10-04-01 | | | | 129.00 | |
| | | | | | | | Average Arithmetic Ratio = | 0.0000 |
| | | | | | | | Average Logarithmic Ratio = | 0.0000 |

Exhibit 15.4h WMKT - 145.0° (day)

GROUND WAVE FIELD STRENGTH
VERSUS
DISTANCE

STATION : WMKT
FREQUENCY: 1270 kHz
POWER : 5.000 kW
DIRECTION: 145.0 Deg.
EXHIBIT :

1250-1330 kHz

Curves computed for 1270 kHz

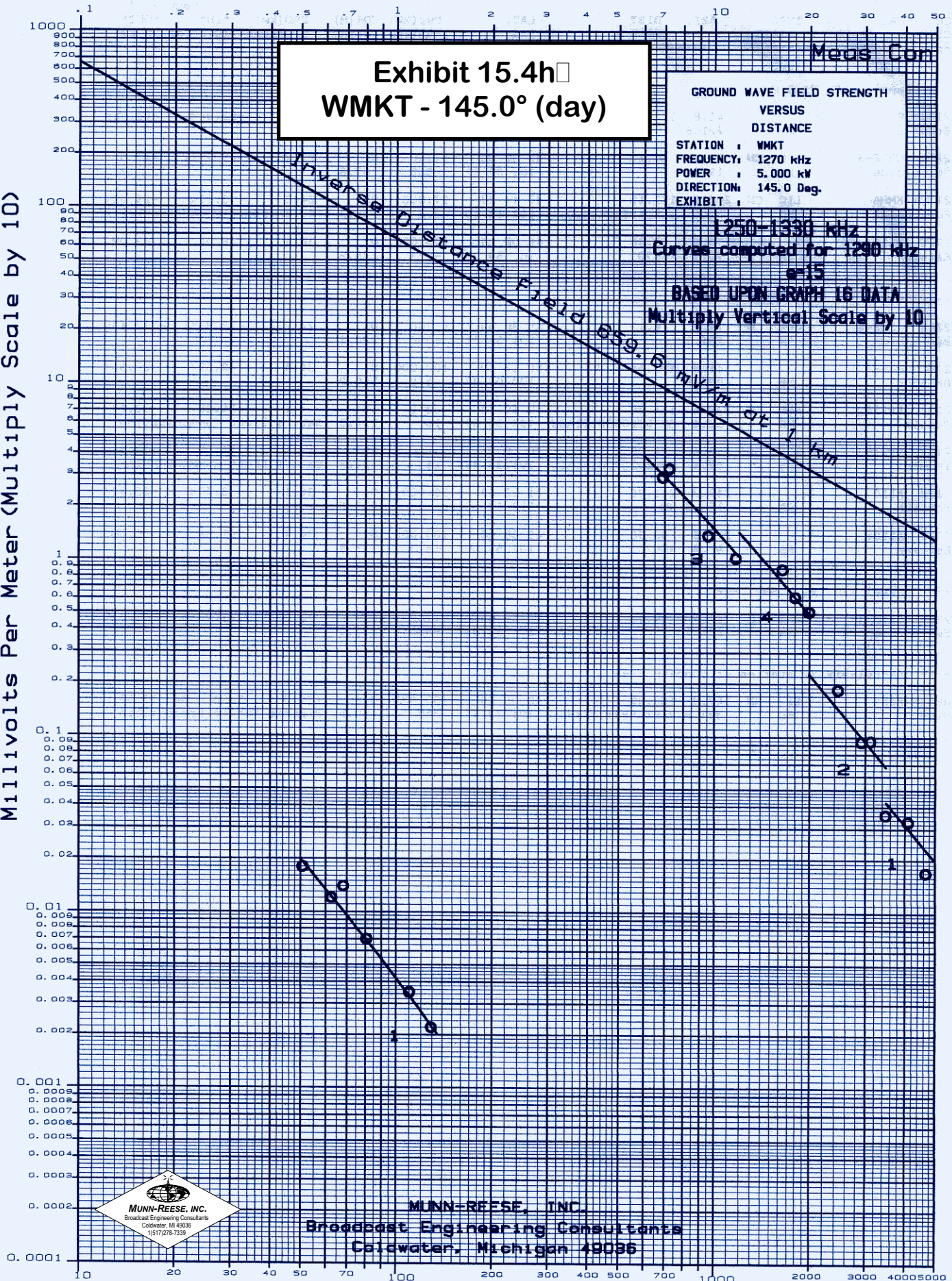
or 15

BASED UPON GRAPH 16 DATA

Multiply Vertical Scale by 10

Inverse Distance Field 659.0 mV/km at 1 km

Millivolts Per Meter (Multiply Scale by 10)



MUNN-REESE, INC.
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Exhibit 15.4i

WMKT - 165.0° (day)

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Coldwater, Michigan 49036

Figure
Page 1 of 1

| Tabulation of Field Strength Measurements | | | | | | | | | |
|--|--------|--------------|-------------|------|------|------|----------------|-------|---------|
| Call: WMKT Frequency(kHz): 1270 Bearing: 165.0° Power(kW): 5.0 NDA | | | | | | | | | |
| Point ### | mV/m | Meas Time | Con Date | mV/m | Time | Date | Distance km | Ratio | MP * |
| 1 | 95.000 | 1109 | 08/24/04 | | | | 3.54 | | |
| 2 | 28.000 | 1102 | 08/24/04 | | | | 6.05 | | |
| 3 | 24.500 | 1058 | 08/24/04 | | | | 6.85 | | |
| 4 | 12.500 | 1052 | 08/24/04 | | | | 8.90 | | |
| 5 | 9.250 | 1047 | 08/24/04 | | | | 9.51 | | |
| 6 | 8.500 | 1041 | 08/24/04 | | | | 11.20 | | |
| 7 | 5.000 | 1035 | 08/24/04 | | | | 12.80 | | |
| 8 | 1.000 | 1019 | 08/24/04 | | | | 19.70 | | |
| 9 | 0.950 | 1004 | 08/24/04 | | | | 25.10 | | |
| 10 | 0.750 | 0952 | 08/24/04 | | | | 30.20 | | |
| 11 | 0.460 | 0934 | 08/24/04 | | | | 34.80 | | |
| 12 | 0.380 | 0927 | 08/24/04 | | | | 39.50 | | |
| 13 | 0.195 | 0909 | 08/24/04 | | | | 44.30 | | |
| 14 | 0.130 | 0901 | 08/24/04 | | | | 48.90 | | |
| 15 | 0.175 | 0842 | 08/24/04 | | | | 54.50 | | |
| 16 | 0.170 | 0833 | 08/24/04 | | | | 57.60 | | |
| 17 | 0.160 | 0822 | 08/24/04 | | | | 62.60 | | |
| 18 | 0.175 | 1856 | 08/23/04 | | | | 69.30 | | |
| 19 | 0.160 | 1838 | 08/23/04 | | | | 74.90 | | |
| 20 | 0.150 | 1833 | 08/23/04 | | | | 76.60 | | |
| 21 | 0.135 | 1818 | 08/23/04 | | | | 78.80 | | |
| 22 | 0.070 | 1515 | 08/23/04 | | | | 84.30 | | |
| 23 | 0.060 | 1506 | 08/23/04 | | | | 91.90 | | |
| 24 | 0.055 | 1457 | 08/23/04 | | | | 97.80 | | |
| 25 | 0.075 | 1437 | 08/23/04 | | | | 108.00 | | |
| 26 | 0.035 | 1337 | 08/23/04 | | | | 129.00 | | |
| 27 | 0.022 | 1316 | 08/23/04 | | | | 141.00 | | |
| 28 | 0.015 | 1310 | 08/23/04 | | | | 143.00 | | |
| 29 | 0.020 | 1238 | 08/23/04 | | | | 161.00 | | |

Average Arithmetic Ratio = 0.0000
Average Logarithmic Ratio = 0.0000



Exhibit 15.4i WMKT - 165.0° (day)

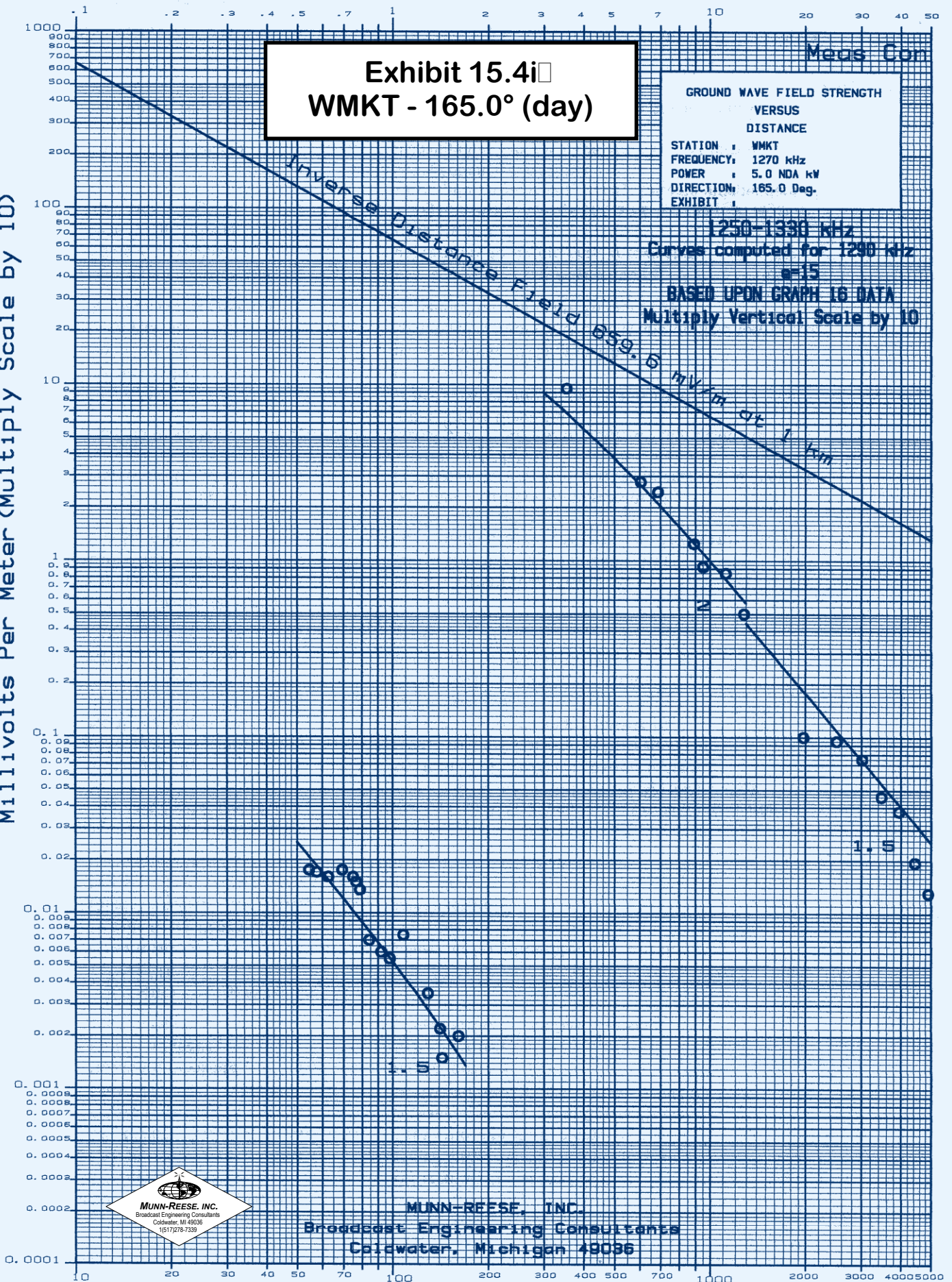
Millivolts Per Meter (Multiply Scale by 10)

Meas. Con

GROUND WAVE FIELD STRENGTH
VERSUS
DISTANCE
STATION : WMKT
FREQUENCY: 1270 kHz
POWER : 5.0 NDA kW
DIRECTION: 165.0 Deg.
EXHIBIT :

1250-1330 kHz
Curves computed for 1290 kHz
 $n=15$
BASED UPON GRAPH 16 DATA
Multiply Vertical Scale by 10

Inverse Distance Field 059.0 mV/km at 1 km



MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, Michigan 49036

Kilometers From Antenna

Exhibit 15.4j

WMKT - 174.0° (night)

TABULATION OF FIELD INTENSITY MEASUREMENTS

174° T. RADIAL - WVOY

| POINT | NON-DIRECTIONAL | | DIRECTIONAL | | RATIO | MILES |
|---------|-----------------|------------|-------------|------------|-------|-------|
| | mV/m | TIME (EST) | mV/m | TIME (EST) | | |
| 1 | 3700 | 11:42 a | -- | -- | -- | .125 |
| 2 | 1540 | 11:47 | -- | -- | -- | .23 |
| 3 | 880 | 11:52 | 92 | 6:59 p | .1045 | .35 |
| 4 | 620 | 11:56 | 75 | 6:57 | .1210 | .46 |
| 5 | 600 | 12:02 | 53 | 6:55 | .0883 | .56 |
| 6 | 620 | 12:08 | 38.5 | 6:53 | .0621 | .68 |
| 7 | 360 | 12:14 | 25 | 6:49 | .0694 | .78 |
| 8 | 370 | 12:18 | 24.75 | 6:46 | .0669 | .89 |
| 9 | 288 | 12:22 | 19.90 | 6:43 | .0691 | .99 |
| 10 | 57 | 4:12 p | 3.5 | 5:55 | .0614 | 2.12 |
| 11 | 40 | 4:04 | 2.8 | 5:51 | .0700 | 3.10 |
| 12 - MP | 24.75 | 3:56 | 1.55 | 5:47 | .0626 | 3.63 |
| 13 | 10.8 | 3:42 | .60 | 5:38 | .0556 | 5.18 |
| 14 | 6.6 | 3:31 | .40 | 5:31 | .0606 | 7.03 |
| 15 | 7.1 | 3:20 | .42 | 5:28 | .0592 | 7.36 |
| 16 | 5.6 | 3:16 | .36 | 5:25 | .0643 | 7.64 |
| 17 | 4.0 | 3:08 | .19 | 5:21 | .0475 | 8.93 |
| 18 | 5.6 | 3:03 | .26 | 5:18 | .0464 | 9.71 |
| 19 | 3.05 | 2:55 | .155 | 5:12 | .0508 | 10.72 |
| 20 | 1.73 | 2:36 | .064 | 4:59 | .0370 | 12.96 |
| 21 | 1.50 | 2:30 | .062 | 4:50 | .0413 | 13.92 |
| 22 | 1.80 | 2:24 | .070 | 4:48 | .0389 | 14.82 |
| 23 | 0.58 | 2:06 | .021 | 4:37 | .0362 | 16.88 |
| 24 | 0.97 | 12:55 | .035 | 4:12 | .0361 | 17.60 |
| 25 | 0.94 | 1:03 | .033 | 4:16 | .0351 | 18.33 |
| 26 | 0.56 | 1:10 | .025 | 4:20 | .0446 | 20.00 |

Avg. = .0595

