



IES INDOOR REPORT
PHOTOMETRIC FILENAME : L44RSF48-LED48DMVWH30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L44RSF48LED48DMVWH30
 [TESTDATE] 23-Aug-2017 11:00:34
 [TESTLAB] Radiant Vision Systems ProSource
 [ISSUE DATE] 8/23/2017 12:43:32 PM
 [MANUFAC] MOBERN LIGHTING CO.
 [LAMP] LED Module
 [_TOTALLUMINAIRELUMENS] 3776.5
 [_NUMBEROFRAYS]10000000
 [OTHER] OSRAM OT50
 [OTHER] LED TAPE - 23" & 24"
 [OTHER] 3,083
 [OTHER] LUMEN/WATT- 79- CRI 82
 [OTHER] Absolute Photometry measurement

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3779 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 79 |
| Total Luminaire Watts | 48 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.20 |
| Spacing Criterion (90-270) | 1.18 |
| Spacing Criterion (Diagonal) | 1.30 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 1.20 m |
| Luminous Width (90-270) | 0.10 m |
| Luminous Height | 0.10 m |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 9875 | 5892 | 5087 |
| 55 | 8848 | 4650 | 3920 |
| 65 | 7493 | 3360 | 2759 |
| 75 | 6303 | 1989 | 1601 |
| 85 | 3224 | 661 | 547 |

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CANDELA TABULATION

| | <u>0</u> | <u>10</u> | <u>20</u> | <u>30</u> | <u>40</u> | <u>50</u> | <u>60</u> | <u>70</u> | <u>80</u> | <u>90</u> |
|------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 |
| 3 | 1498.76 | 1499.59 | 1500.19 | 1501.99 | 1502.46 | 1503.68 | 1504.64 | 1505.05 | 1504.87 | 1503.86 |
| 6 | 1489.00 | 1487.77 | 1488.34 | 1488.66 | 1489.14 | 1490.34 | 1493.65 | 1496.01 | 1496.99 | 1496.16 |
| 9 | 1474.10 | 1469.68 | 1466.30 | 1461.60 | 1460.84 | 1462.06 | 1465.03 | 1468.02 | 1469.94 | 1470.00 |
| 12 | 1452.80 | 1447.34 | 1441.49 | 1437.41 | 1438.15 | 1437.21 | 1436.02 | 1433.93 | 1432.59 | 1432.77 |
| 15 | 1422.93 | 1420.15 | 1417.53 | 1413.22 | 1412.54 | 1412.48 | 1408.74 | 1404.80 | 1397.22 | 1393.60 |
| 18 | 1384.62 | 1389.94 | 1385.54 | 1381.03 | 1375.80 | 1375.61 | 1373.16 | 1372.05 | 1364.95 | 1355.51 |
| 21 | 1338.91 | 1345.82 | 1347.01 | 1339.79 | 1331.08 | 1326.22 | 1327.62 | 1330.49 | 1324.72 | 1318.14 |
| 24 | 1288.44 | 1295.36 | 1302.68 | 1294.69 | 1284.14 | 1277.41 | 1276.67 | 1278.00 | 1275.75 | 1274.97 |
| 27 | 1236.15 | 1247.42 | 1253.89 | 1253.70 | 1241.20 | 1230.77 | 1228.29 | 1221.89 | 1223.66 | 1220.83 |
| 30 | 1184.96 | 1198.55 | 1200.34 | 1198.55 | 1185.88 | 1173.17 | 1171.79 | 1165.24 | 1170.55 | 1161.88 |
| 33 | 1136.04 | 1144.70 | 1139.93 | 1132.71 | 1123.85 | 1114.92 | 1112.80 | 1102.49 | 1109.34 | 1104.86 |
| 36 | 1083.70 | 1081.84 | 1077.92 | 1070.98 | 1060.35 | 1059.35 | 1057.59 | 1045.67 | 1045.12 | 1047.47 |
| 39 | 1023.63 | 1012.53 | 1024.12 | 1008.37 | 1000.64 | 1002.85 | 996.18 | 990.71 | 988.08 | 986.49 |
| 42 | 963.15 | 943.54 | 965.19 | 949.15 | 947.06 | 941.65 | 935.68 | 926.00 | 928.38 | 924.29 |
| 45 | 908.14 | 882.96 | 900.08 | 886.20 | 888.96 | 877.59 | 871.69 | 865.25 | 862.32 | 863.65 |
| 48 | 846.93 | 828.43 | 833.99 | 824.00 | 824.89 | 812.47 | 806.66 | 808.78 | 797.50 | 803.45 |
| 51 | 770.74 | 775.89 | 756.83 | 762.98 | 757.36 | 750.59 | 745.46 | 744.73 | 740.81 | 741.78 |
| 54 | 698.97 | 712.67 | 696.67 | 694.00 | 690.42 | 691.34 | 683.16 | 677.92 | 680.25 | 677.61 |
| 57 | 647.46 | 641.57 | 634.42 | 631.85 | 632.42 | 626.72 | 625.61 | 610.31 | 617.57 | 610.91 |
| 60 | 590.04 | 572.74 | 568.43 | 565.54 | 568.26 | 554.44 | 562.05 | 546.96 | 550.73 | 544.58 |
| 63 | 503.46 | 506.01 | 505.91 | 499.60 | 496.98 | 484.66 | 496.14 | 486.43 | 485.61 | 481.24 |
| 66 | 420.38 | 432.81 | 435.38 | 437.66 | 433.71 | 426.89 | 426.45 | 422.04 | 420.31 | 419.69 |
| 69 | 362.24 | 366.65 | 376.53 | 365.33 | 366.69 | 366.93 | 357.40 | 356.57 | 355.64 | 358.13 |
| 72 | 317.16 | 310.44 | 315.22 | 298.07 | 304.02 | 303.11 | 293.64 | 295.34 | 295.22 | 296.45 |
| 75 | 256.75 | 251.05 | 245.34 | 235.30 | 237.16 | 239.89 | 231.09 | 233.29 | 235.06 | 235.35 |
| 78 | 188.36 | 187.32 | 181.51 | 179.89 | 176.29 | 177.18 | 177.58 | 173.73 | 178.13 | 176.90 |
| 81 | 133.39 | 134.16 | 137.57 | 136.46 | 133.36 | 133.56 | 134.39 | 133.62 | 131.15 | 130.09 |
| 84 | 79.87 | 85.34 | 79.41 | 85.51 | 78.77 | 83.45 | 85.93 | 85.25 | 84.32 | 84.28 |
| 87 | 37.86 | 40.81 | 35.41 | 34.07 | 39.95 | 40.22 | 45.16 | 40.88 | 44.71 | 45.04 |
| 90 | 11.45 | 10.39 | 10.81 | 12.20 | 12.72 | 13.23 | 16.54 | 16.53 | 16.49 | 18.36 |
| 93 | 1.26 | 1.94 | 2.04 | 2.66 | 2.64 | 3.01 | 3.79 | 4.02 | 5.08 | 4.16 |
| 96 | 0.08 | 0.19 | 0.06 | 0.09 | 0.28 | 0.28 | 0.09 | 0.26 | 0.41 | 0.24 |
| 99 | 0.02 | 0.03 | 0.03 | 0.06 | 0.04 | 0.05 | 0.04 | 0.03 | 0.07 | 0.02 |
| 102 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 144 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|------|------|
| 162 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 171 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Vert. Angles **Horizontal Angles**

| | <u>100</u> | <u>110</u> | <u>120</u> | <u>130</u> | <u>140</u> | <u>150</u> | <u>160</u> | <u>170</u> | <u>180</u> | <u>190</u> |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 |
| 3 | 1502.08 | 1499.53 | 1496.51 | 1493.14 | 1490.23 | 1489.75 | 1486.48 | 1486.63 | 1486.71 | 1486.71 |
| 6 | 1492.07 | 1486.84 | 1479.75 | 1472.54 | 1469.09 | 1467.28 | 1466.69 | 1466.84 | 1469.85 | 1472.32 |
| 9 | 1468.08 | 1463.34 | 1456.01 | 1448.23 | 1444.36 | 1444.53 | 1448.63 | 1452.51 | 1456.39 | 1458.07 |
| 12 | 1434.44 | 1436.48 | 1435.94 | 1432.47 | 1430.64 | 1431.07 | 1436.15 | 1441.16 | 1443.26 | 1439.82 |
| 15 | 1395.00 | 1403.60 | 1408.56 | 1409.77 | 1407.48 | 1409.55 | 1416.06 | 1421.65 | 1424.26 | 1415.63 |
| 18 | 1355.56 | 1360.34 | 1367.28 | 1371.21 | 1368.88 | 1373.43 | 1379.76 | 1392.09 | 1392.02 | 1386.08 |
| 21 | 1315.18 | 1316.19 | 1320.69 | 1324.37 | 1324.64 | 1327.04 | 1337.19 | 1346.57 | 1343.00 | 1341.36 |
| 24 | 1271.26 | 1265.67 | 1264.61 | 1272.51 | 1270.81 | 1265.64 | 1285.15 | 1295.44 | 1289.48 | 1289.25 |
| 27 | 1219.04 | 1208.82 | 1208.78 | 1218.16 | 1218.23 | 1209.22 | 1220.53 | 1242.47 | 1243.21 | 1234.33 |
| 30 | 1164.95 | 1154.97 | 1155.91 | 1164.18 | 1168.55 | 1160.70 | 1154.85 | 1182.95 | 1198.17 | 1173.36 |
| 33 | 1109.71 | 1098.08 | 1106.77 | 1114.51 | 1124.73 | 1122.60 | 1098.82 | 1115.89 | 1145.91 | 1110.28 |
| 36 | 1049.44 | 1039.57 | 1050.79 | 1054.28 | 1064.85 | 1079.47 | 1051.00 | 1044.89 | 1086.80 | 1043.53 |
| 39 | 983.31 | 979.71 | 983.70 | 986.20 | 988.44 | 1005.49 | 1006.83 | 977.34 | 1023.62 | 975.54 |
| 42 | 913.90 | 917.66 | 927.58 | 927.15 | 926.40 | 928.21 | 942.75 | 911.80 | 960.11 | 908.60 |
| 45 | 854.72 | 861.75 | 868.14 | 870.35 | 874.30 | 856.87 | 866.75 | 851.20 | 898.70 | 850.21 |
| 48 | 801.79 | 800.00 | 798.83 | 802.78 | 815.82 | 798.23 | 788.44 | 795.09 | 835.61 | 796.75 |
| 51 | 743.25 | 729.57 | 735.41 | 737.45 | 742.16 | 744.75 | 725.68 | 743.99 | 767.40 | 744.57 |
| 54 | 672.20 | 671.40 | 674.80 | 682.08 | 667.42 | 662.30 | 657.54 | 687.39 | 697.67 | 684.24 |
| 57 | 607.99 | 615.32 | 614.61 | 620.83 | 609.54 | 601.12 | 590.18 | 626.26 | 630.19 | 619.54 |
| 60 | 548.37 | 548.95 | 548.47 | 547.24 | 549.60 | 530.76 | 533.60 | 561.35 | 562.55 | 551.33 |
| 63 | 487.20 | 482.18 | 486.89 | 476.64 | 474.86 | 470.60 | 487.21 | 495.41 | 492.08 | 484.11 |
| 66 | 420.79 | 418.13 | 422.88 | 416.11 | 405.55 | 416.23 | 422.01 | 424.60 | 421.24 | 415.51 |
| 69 | 355.05 | 354.51 | 356.52 | 351.11 | 339.43 | 353.22 | 355.19 | 355.18 | 352.94 | 348.12 |
| 72 | 294.61 | 293.85 | 294.97 | 288.24 | 284.04 | 289.32 | 288.37 | 288.89 | 286.71 | 281.49 |
| 75 | 234.25 | 233.55 | 231.40 | 229.86 | 225.68 | 222.85 | 222.15 | 224.48 | 221.80 | 215.39 |
| 78 | 177.58 | 175.55 | 172.84 | 169.78 | 170.51 | 165.26 | 160.44 | 162.86 | 159.50 | 152.18 |
| 81 | 129.17 | 130.13 | 120.98 | 117.54 | 118.84 | 114.39 | 110.78 | 101.16 | 97.62 | 90.56 |
| 84 | 83.44 | 82.51 | 77.13 | 72.69 | 66.72 | 69.98 | 61.44 | 59.42 | 51.71 | 51.26 |
| 87 | 42.02 | 39.46 | 34.23 | 34.27 | 32.82 | 27.81 | 25.26 | 24.63 | 17.37 | 18.48 |
| 90 | 16.91 | 13.23 | 14.35 | 10.80 | 9.88 | 8.87 | 7.37 | 4.61 | 3.37 | 5.03 |
| 93 | 4.38 | 5.37 | 4.93 | 3.85 | 3.93 | 2.36 | 2.34 | 2.33 | 1.62 | 3.02 |
| 96 | 0.61 | 0.45 | 0.32 | 0.58 | 0.58 | 0.05 | 0.09 | 0.47 | 0.31 | 0.49 |
| 99 | 0.14 | 0.02 | 0.02 | 0.19 | 0.14 | 0.01 | 0.01 | 0.12 | 0.12 | 0.15 |
| 102 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|------|------|
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 144 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 171 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Vert. Horizontal Angles

| | <u>200</u> | <u>210</u> | <u>220</u> | <u>230</u> | <u>240</u> | <u>250</u> | <u>260</u> | <u>270</u> | <u>280</u> | <u>290</u> |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 |
| 3 | 1486.59 | 1488.19 | 1487.97 | 1488.30 | 1488.67 | 1488.86 | 1489.04 | 1489.52 | 1489.91 | 1490.75 |
| 6 | 1476.32 | 1478.94 | 1480.04 | 1480.25 | 1480.21 | 1479.21 | 1478.31 | 1477.90 | 1478.23 | 1479.38 |
| 9 | 1460.95 | 1461.08 | 1463.14 | 1464.10 | 1464.20 | 1464.08 | 1464.06 | 1464.00 | 1464.23 | 1464.43 |
| 12 | 1435.14 | 1432.48 | 1434.65 | 1433.84 | 1434.70 | 1436.83 | 1440.38 | 1443.01 | 1443.08 | 1441.30 |
| 15 | 1407.07 | 1399.87 | 1394.76 | 1393.16 | 1394.10 | 1400.54 | 1405.29 | 1410.17 | 1410.80 | 1409.33 |
| 18 | 1374.21 | 1371.49 | 1361.06 | 1350.93 | 1350.74 | 1358.17 | 1363.95 | 1365.32 | 1370.51 | 1368.67 |
| 21 | 1336.78 | 1338.33 | 1326.07 | 1307.76 | 1307.11 | 1313.94 | 1313.20 | 1311.00 | 1317.86 | 1323.71 |
| 24 | 1283.90 | 1277.59 | 1275.22 | 1260.76 | 1259.56 | 1263.40 | 1259.29 | 1255.36 | 1259.71 | 1272.30 |
| 27 | 1215.35 | 1215.56 | 1221.30 | 1214.18 | 1212.05 | 1206.94 | 1206.36 | 1204.92 | 1202.89 | 1217.56 |
| 30 | 1149.65 | 1162.17 | 1170.22 | 1162.59 | 1155.60 | 1149.11 | 1152.77 | 1154.76 | 1147.48 | 1160.92 |
| 33 | 1093.90 | 1116.43 | 1117.89 | 1105.85 | 1093.02 | 1087.98 | 1092.28 | 1098.48 | 1087.93 | 1096.56 |
| 36 | 1043.02 | 1067.42 | 1049.34 | 1040.80 | 1028.82 | 1032.20 | 1027.85 | 1035.89 | 1026.41 | 1034.62 |
| 39 | 997.96 | 995.60 | 973.46 | 974.17 | 960.63 | 975.74 | 965.21 | 968.93 | 969.54 | 977.65 |
| 42 | 909.66 | 919.75 | 916.27 | 916.17 | 903.80 | 910.95 | 900.08 | 901.48 | 910.04 | 912.85 |
| 45 | 852.79 | 846.92 | 866.19 | 857.42 | 844.85 | 847.70 | 837.10 | 836.88 | 845.54 | 847.26 |
| 48 | 795.32 | 788.17 | 806.00 | 787.03 | 778.60 | 781.36 | 775.61 | 774.43 | 779.49 | 785.38 |
| 51 | 709.18 | 738.67 | 730.82 | 719.41 | 717.08 | 711.31 | 715.34 | 712.28 | 718.37 | 721.40 |
| 54 | 649.34 | 671.61 | 654.62 | 661.39 | 655.73 | 651.27 | 649.47 | 648.29 | 653.87 | 656.79 |
| 57 | 590.56 | 583.57 | 593.57 | 598.17 | 592.85 | 590.08 | 585.47 | 581.26 | 590.23 | 588.24 |
| 60 | 529.47 | 514.19 | 530.86 | 523.35 | 524.60 | 524.02 | 520.17 | 514.09 | 523.64 | 523.37 |
| 63 | 476.21 | 452.71 | 459.46 | 453.12 | 461.71 | 458.68 | 457.00 | 449.67 | 458.47 | 462.99 |
| 66 | 406.85 | 397.49 | 393.22 | 391.38 | 395.82 | 391.90 | 392.54 | 387.08 | 393.13 | 397.52 |
| 69 | 338.01 | 326.44 | 327.87 | 324.68 | 327.91 | 325.95 | 327.04 | 324.96 | 328.17 | 329.56 |
| 72 | 269.11 | 262.21 | 271.17 | 262.61 | 266.93 | 265.11 | 265.56 | 264.06 | 267.02 | 268.06 |
| 75 | 208.53 | 204.09 | 207.10 | 205.57 | 206.48 | 204.93 | 204.91 | 205.48 | 205.19 | 208.40 |
| 78 | 151.67 | 150.80 | 146.98 | 148.77 | 151.13 | 147.65 | 148.00 | 149.49 | 147.32 | 149.97 |
| 81 | 96.86 | 94.35 | 91.28 | 91.91 | 89.83 | 93.06 | 87.92 | 91.83 | 90.95 | 96.74 |
| 84 | 49.05 | 50.68 | 46.96 | 48.87 | 47.99 | 52.10 | 49.16 | 51.65 | 52.64 | 52.57 |
| 87 | 17.78 | 15.25 | 17.11 | 18.04 | 16.60 | 17.65 | 18.26 | 19.85 | 20.92 | 17.58 |
| 90 | 4.44 | 2.92 | 5.72 | 3.51 | 4.59 | 5.89 | 4.74 | 5.94 | 5.98 | 5.66 |
| 93 | 1.82 | 1.59 | 3.39 | 2.87 | 2.77 | 3.56 | 2.97 | 3.07 | 4.17 | 2.85 |
| 96 | 0.06 | 0.08 | 0.71 | 0.44 | 0.18 | 0.22 | 0.36 | 0.27 | 0.67 | 0.24 |
| 99 | 0.03 | 0.09 | 0.27 | 0.16 | 0.05 | 0.03 | 0.08 | 0.03 | 0.28 | 0.04 |
| 102 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L44RSF48-LED48DMVWH30.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|------|------|
| 108 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 144 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 171 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Vert. Horizontal Angles
Angles

| | 300 | 310 | 320 | 330 | 340 | 350 | 360 |
|----|------------|------------|------------|------------|------------|------------|------------|
| 0 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 | 1498.99 |
| 3 | 1491.77 | 1492.89 | 1494.35 | 1495.64 | 1496.56 | 1497.75 | 1498.76 |
| 6 | 1481.41 | 1483.38 | 1485.77 | 1487.99 | 1489.37 | 1489.05 | 1489.00 |
| 9 | 1465.26 | 1467.37 | 1470.27 | 1473.30 | 1476.31 | 1475.43 | 1474.10 |
| 12 | 1439.95 | 1441.11 | 1446.18 | 1449.14 | 1452.66 | 1453.82 | 1452.80 |
| 15 | 1402.81 | 1401.81 | 1406.52 | 1415.11 | 1420.48 | 1420.34 | 1422.93 |
| 18 | 1359.84 | 1357.68 | 1367.27 | 1379.36 | 1379.61 | 1383.52 | 1384.62 |
| 21 | 1317.08 | 1316.43 | 1332.85 | 1344.92 | 1341.89 | 1339.82 | 1338.91 |
| 24 | 1273.16 | 1274.54 | 1289.15 | 1297.20 | 1300.86 | 1295.08 | 1288.44 |
| 27 | 1227.16 | 1225.90 | 1234.92 | 1244.50 | 1252.25 | 1249.75 | 1236.15 |
| 30 | 1167.84 | 1165.05 | 1173.41 | 1186.24 | 1199.44 | 1200.29 | 1184.96 |
| 33 | 1103.50 | 1108.28 | 1117.49 | 1126.56 | 1138.42 | 1145.30 | 1136.04 |
| 36 | 1043.88 | 1054.13 | 1060.69 | 1068.58 | 1070.14 | 1082.21 | 1083.70 |
| 39 | 980.06 | 997.11 | 1000.89 | 1002.38 | 1013.05 | 1016.44 | 1023.63 |
| 42 | 915.55 | 935.84 | 944.30 | 939.13 | 956.52 | 950.20 | 963.15 |
| 45 | 846.35 | 870.52 | 880.36 | 875.24 | 895.04 | 884.17 | 908.14 |
| 48 | 782.37 | 802.91 | 813.33 | 814.83 | 834.17 | 821.21 | 846.93 |
| 51 | 726.06 | 736.01 | 747.70 | 753.16 | 763.00 | 767.09 | 770.74 |
| 54 | 661.66 | 669.54 | 680.78 | 678.47 | 697.68 | 707.71 | 698.97 |
| 57 | 596.85 | 603.80 | 618.65 | 611.80 | 624.32 | 640.50 | 647.46 |
| 60 | 532.65 | 540.91 | 551.66 | 544.28 | 553.28 | 570.99 | 590.04 |
| 63 | 472.93 | 475.48 | 479.70 | 480.48 | 490.46 | 498.29 | 503.46 |
| 66 | 405.72 | 406.70 | 413.62 | 420.42 | 419.27 | 419.49 | 420.38 |
| 69 | 333.87 | 337.81 | 345.45 | 348.07 | 358.04 | 352.28 | 362.24 |
| 72 | 268.75 | 278.70 | 285.08 | 282.32 | 294.42 | 301.09 | 317.16 |
| 75 | 206.84 | 218.22 | 216.40 | 220.40 | 225.87 | 243.63 | 256.75 |
| 78 | 153.50 | 153.16 | 153.19 | 162.07 | 162.75 | 177.97 | 188.36 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L44RSF48-LED48DMVWH30.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | |
|------------|-------|-------|--------|--------|--------|--------|--------|
| 81 | 99.27 | 99.04 | 104.33 | 111.10 | 117.47 | 120.97 | 133.39 |
| 84 | 55.58 | 51.37 | 54.78 | 62.56 | 64.00 | 71.62 | 79.87 |
| 87 | 18.91 | 17.05 | 21.38 | 19.98 | 23.62 | 30.34 | 37.86 |
| 90 | 3.64 | 4.38 | 4.52 | 4.89 | 6.52 | 6.90 | 11.45 |
| 93 | 2.19 | 1.75 | 1.87 | 2.19 | 1.72 | 1.58 | 1.26 |
| 96 | 0.15 | 0.31 | 0.28 | 0.19 | 0.12 | 0.12 | 0.08 |
| 99 | 0.05 | 0.10 | 0.11 | 0.21 | 0.04 | 0.02 | 0.02 |
| 102 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 144 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 171 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L44RSF48-LED48DMVWH30.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 440.72 | N.A. | 11.70 |
| 0-30 | 1118.38 | N.A. | 29.60 |
| 0-40 | 1721.62 | N.A. | 45.60 |
| 0-60 | 3043.68 | N.A. | 80.60 |
| 0-80 | 3680.73 | N.A. | 97.40 |
| 0-90 | 3776.00 | N.A. | 99.90 |
| 10-90 | 3661.46 | N.A. | 96.90 |
| 20-40 | 1280.9 | N.A. | 33.90 |
| 20-50 | 1888.59 | N.A. | 50.00 |
| 40-70 | 1718.49 | N.A. | 45.50 |
| 60-80 | 637.05 | N.A. | 16.90 |
| 70-80 | 240.63 | N.A. | 6.40 |
| 80-90 | 95.27 | N.A. | 2.50 |
| 90-110 | 2.51 | N.A. | 0.10 |
| 90-120 | 2.51 | N.A. | 0.10 |
| 90-130 | 2.51 | N.A. | 0.10 |
| 90-150 | 2.51 | N.A. | 0.10 |
| 90-180 | 2.51 | N.A. | 0.10 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 3778.51 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 114.54 |
| 10-20 | 326.18 |
| 20-30 | 677.66 |
| 30-40 | 603.24 |
| 40-50 | 607.69 |
| 50-60 | 714.37 |
| 60-70 | 396.43 |
| 70-80 | 240.63 |
| 80-90 | 95.27 |
| 90-100 | 2.50 |
| 100-110 | 0.01 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

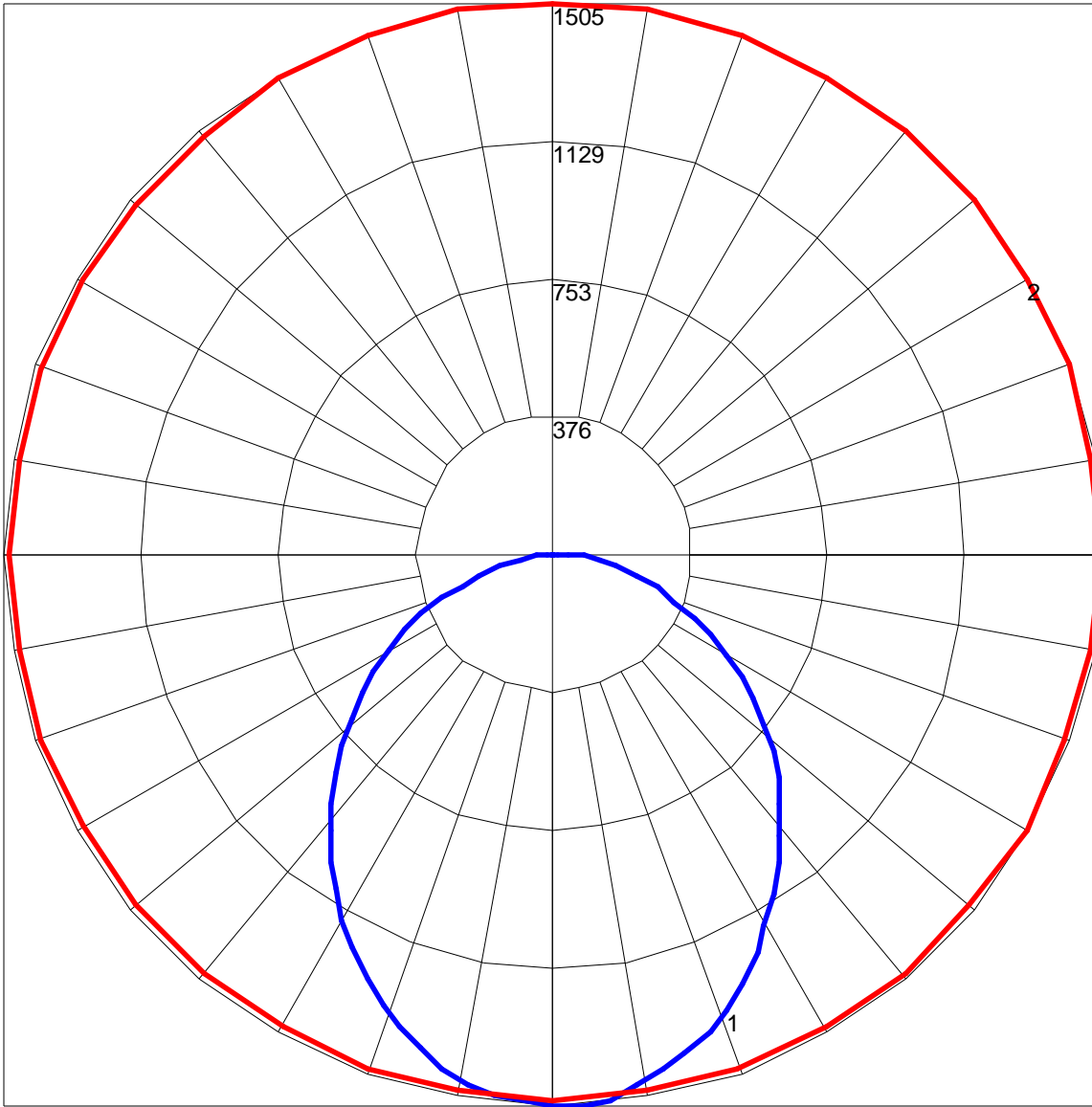
IES INDOOR REPORT
PHOTOMETRIC FILENAME : L44RSF48-LED48DMVWH30.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC RW | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 99 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 83 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 73 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 38 |
| 7 | 65 | 51 | 43 | 36 | 63 | 51 | 42 | 36 | 49 | 41 | 36 | 48 | 41 | 36 | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 32 | 42 | 36 | 32 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 26 | 52 | 39 | 32 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |

POLAR GRAPH



Maximum Candela = 1505.05 Located At Horizontal Angle = 70, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (70 - 250) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)