



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : L44IRX48LED24DMV35.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L44IRx48LED24DMV35  
 [TESTDATE] 19-Jun-2019 07:15:49  
 [TESTLAB] Radiant Vision Systems ProSource  
 [ISSUE DATE] 6/19/2019 9:27:09 AM  
 [MANUFAC] Mobern Lighting Co.  
 [LAMP] LED Module  
 [ TOTALLUMINAIRELUMENS] 1963.4  
 [DRIVER TYPE](1) OSRAM OT50W  
 [BOARD/LAMP TYPE] (2) "C" BOARDS  
 [COLOR TEMP] 3655 CCT  
 [LUMEN/WATT] 80 LPW  
 [CRI] 85.2  
 [ NUMBEROFRAYS]10000000  
 [OTHER] Absolute Photometry measurement

**CHARACTERISTICS**

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 1964                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 80                  |
| Total Luminaire Watts           | 24.4                |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.26                |
| Spacing Criterion (90-270)      | 1.28                |
| Spacing Criterion (Diagonal)    | 1.42                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 1.22 m              |
| Luminous Width (90-270)         | 0.10 m              |
| Luminous Height                 | 0.10 m              |

**LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 4648             | 2840              | 2561              |
| 55                  | 4346             | 2391              | 2167              |
| 65                  | 3994             | 1947              | 1713              |
| 75                  | 3341             | 1334              | 1113              |
| 85                  | 1614             | 345               | 180               |

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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> |
|------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>   | 629.31   | 629.31    | 629.31    | 629.31    | 629.31    | 629.31    | 629.31    | 629.31    | 629.31    | 629.31    |
| <b>3</b>   | 626.83   | 626.46    | 626.03    | 626.05    | 625.71    | 625.64    | 625.79    | 625.98    | 626.22    | 626.62    |
| <b>6</b>   | 625.43   | 624.23    | 623.27    | 622.43    | 621.80    | 621.38    | 621.41    | 621.54    | 621.78    | 622.13    |
| <b>9</b>   | 625.88   | 623.90    | 621.95    | 620.11    | 618.28    | 617.19    | 617.10    | 617.77    | 618.53    | 618.96    |
| <b>12</b>  | 623.92   | 621.31    | 618.81    | 615.78    | 613.08    | 610.77    | 610.56    | 611.80    | 613.25    | 614.02    |
| <b>15</b>  | 615.49   | 612.28    | 609.66    | 605.71    | 601.57    | 599.59    | 599.88    | 602.00    | 603.22    | 603.92    |
| <b>18</b>  | 602.36   | 600.00    | 595.02    | 592.69    | 589.02    | 587.51    | 588.19    | 590.39    | 591.43    | 590.40    |
| <b>21</b>  | 587.12   | 584.98    | 581.53    | 580.64    | 580.00    | 578.38    | 577.92    | 580.20    | 579.21    | 575.99    |
| <b>24</b>  | 569.55   | 568.95    | 567.68    | 566.06    | 569.62    | 569.09    | 565.97    | 568.94    | 567.11    | 561.31    |
| <b>27</b>  | 549.37   | 551.48    | 551.37    | 550.33    | 553.90    | 554.76    | 551.85    | 553.51    | 553.59    | 546.51    |
| <b>30</b>  | 528.88   | 532.66    | 533.86    | 531.52    | 530.13    | 531.49    | 534.14    | 535.66    | 537.95    | 531.88    |
| <b>33</b>  | 510.04   | 513.79    | 513.98    | 511.04    | 508.32    | 509.73    | 515.22    | 515.31    | 519.38    | 517.19    |
| <b>36</b>  | 491.16   | 493.35    | 491.26    | 491.58    | 492.22    | 493.13    | 497.40    | 496.48    | 499.55    | 500.20    |
| <b>39</b>  | 470.65   | 471.18    | 471.23    | 469.06    | 476.63    | 477.88    | 477.85    | 479.37    | 481.89    | 479.51    |
| <b>42</b>  | 451.14   | 446.96    | 450.12    | 446.11    | 456.40    | 457.61    | 457.16    | 459.80    | 463.28    | 459.02    |
| <b>45</b>  | 434.03   | 420.46    | 426.06    | 422.14    | 431.92    | 433.42    | 432.84    | 438.65    | 440.86    | 442.03    |
| <b>48</b>  | 411.91   | 395.05    | 401.54    | 399.12    | 406.44    | 408.20    | 408.75    | 417.25    | 417.21    | 424.16    |
| <b>51</b>  | 379.33   | 374.77    | 375.47    | 375.68    | 380.07    | 384.44    | 388.58    | 394.87    | 397.32    | 401.06    |
| <b>54</b>  | 347.19   | 352.02    | 355.33    | 347.15    | 353.63    | 362.15    | 367.15    | 372.42    | 376.61    | 376.09    |
| <b>57</b>  | 325.24   | 324.32    | 328.91    | 321.87    | 331.34    | 338.65    | 344.12    | 347.93    | 352.40    | 352.86    |
| <b>60</b>  | 302.49   | 295.44    | 294.11    | 295.89    | 306.85    | 315.30    | 318.23    | 322.64    | 323.89    | 328.17    |
| <b>63</b>  | 267.72   | 264.30    | 264.74    | 269.12    | 277.60    | 290.31    | 291.42    | 296.75    | 295.66    | 298.69    |
| <b>66</b>  | 229.46   | 228.03    | 234.29    | 243.20    | 250.78    | 260.86    | 259.95    | 268.61    | 266.89    | 267.32    |
| <b>69</b>  | 197.82   | 196.00    | 205.56    | 213.59    | 223.37    | 227.97    | 226.45    | 238.33    | 236.61    | 237.01    |
| <b>72</b>  | 169.18   | 169.14    | 176.95    | 185.43    | 195.83    | 197.72    | 196.95    | 205.86    | 204.08    | 204.71    |
| <b>75</b>  | 137.82   | 140.79    | 148.38    | 156.63    | 160.33    | 164.63    | 164.56    | 166.75    | 164.22    | 166.42    |
| <b>78</b>  | 103.73   | 109.67    | 119.84    | 126.61    | 124.42    | 124.39    | 124.23    | 118.29    | 119.30    | 120.68    |
| <b>81</b>  | 73.52    | 81.39     | 94.91     | 97.78     | 94.94     | 90.67     | 83.32     | 79.52     | 77.96     | 76.16     |
| <b>84</b>  | 42.41    | 54.10     | 57.72     | 58.48     | 49.75     | 43.61     | 37.24     | 33.63     | 35.30     | 30.54     |
| <b>87</b>  | 14.94    | 24.43     | 22.01     | 18.18     | 16.63     | 11.51     | 11.63     | 9.78      | 11.09     | 10.34     |
| <b>90</b>  | 1.41     | 5.38      | 4.42      | 4.90      | 2.66      | 4.15      | 2.94      | 2.07      | 2.01      | 3.43      |
| <b>93</b>  | 0.65     | 3.10      | 1.54      | 1.26      | 1.77      | 1.39      | 0.91      | 1.07      | 0.68      | 0.84      |
| <b>96</b>  | 0.05     | 0.57      | 0.24      | 0.11      | 0.41      | 0.39      | 0.30      | 0.17      | 0.26      | 0.13      |
| <b>99</b>  | 0.01     | 0.18      | 0.09      | 0.05      | 0.10      | 0.04      | 0.07      | 0.07      | 0.10      | 0.06      |
| <b>102</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>105</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>108</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>111</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>114</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>117</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>120</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>123</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>126</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>129</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>132</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>135</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>138</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>141</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>144</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>147</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>150</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>153</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>156</b> | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| <b>159</b> | 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 : L44IRX48LED24DMV35.IES**

**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. Horizontal Angles**  
**Angles**

|     | <b>100</b> | <b>110</b> | <b>120</b> | <b>130</b> | <b>140</b> | <b>150</b> | <b>160</b> | <b>170</b> | <b>180</b> | <b>190</b> |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0   | 629.31     | 629.31     | 629.31     | 629.31     | 629.31     | 629.31     | 629.31     | 629.31     | 629.31     | 629.31     |
| 3   | 626.96     | 627.45     | 628.03     | 628.65     | 629.39     | 629.92     | 630.46     | 630.74     | 630.79     | 630.60     |
| 6   | 622.43     | 622.80     | 623.48     | 624.27     | 625.50     | 626.91     | 628.15     | 628.69     | 629.07     | 628.62     |
| 9   | 618.92     | 618.48     | 617.99     | 618.02     | 618.84     | 620.20     | 621.81     | 622.31     | 623.11     | 623.13     |
| 12  | 613.66     | 612.67     | 611.58     | 611.11     | 612.12     | 613.14     | 614.26     | 615.01     | 616.29     | 617.91     |
| 15  | 603.05     | 602.78     | 602.13     | 601.75     | 602.53     | 605.09     | 607.06     | 608.69     | 611.74     | 614.50     |
| 18  | 590.52     | 591.10     | 592.90     | 593.07     | 594.09     | 597.31     | 598.98     | 603.24     | 607.41     | 610.80     |
| 21  | 578.18     | 581.08     | 583.75     | 583.61     | 585.03     | 588.44     | 591.65     | 597.44     | 600.66     | 603.57     |
| 24  | 565.68     | 568.37     | 568.41     | 568.96     | 569.46     | 570.80     | 579.85     | 589.49     | 591.75     | 592.86     |
| 27  | 550.38     | 552.26     | 552.27     | 554.32     | 554.41     | 553.34     | 561.35     | 574.97     | 580.96     | 578.08     |
| 30  | 534.37     | 537.83     | 538.21     | 541.73     | 542.81     | 540.98     | 542.57     | 553.26     | 565.64     | 557.82     |
| 33  | 519.61     | 521.55     | 522.59     | 526.72     | 529.80     | 529.98     | 525.52     | 528.15     | 544.07     | 533.75     |
| 36  | 503.18     | 501.79     | 504.36     | 507.46     | 510.03     | 514.89     | 506.93     | 502.04     | 521.09     | 508.42     |
| 39  | 482.85     | 482.96     | 484.05     | 486.02     | 485.21     | 489.98     | 490.04     | 478.04     | 501.11     | 485.54     |
| 42  | 460.47     | 463.99     | 463.93     | 465.26     | 463.26     | 461.80     | 466.69     | 455.66     | 480.68     | 463.21     |
| 45  | 439.53     | 443.97     | 441.16     | 444.29     | 442.61     | 433.59     | 444.18     | 435.17     | 456.20     | 440.15     |
| 48  | 419.48     | 422.06     | 418.46     | 420.17     | 421.37     | 411.78     | 417.83     | 415.12     | 431.41     | 417.77     |
| 51  | 400.06     | 398.76     | 398.61     | 395.81     | 395.33     | 393.86     | 385.78     | 395.63     | 409.94     | 399.68     |
| 54  | 377.88     | 376.85     | 376.78     | 373.71     | 366.07     | 365.45     | 358.41     | 373.71     | 387.40     | 380.84     |
| 57  | 354.06     | 352.87     | 353.27     | 349.49     | 341.65     | 332.96     | 329.67     | 348.38     | 359.36     | 357.28     |
| 60  | 328.03     | 326.99     | 327.96     | 321.18     | 316.32     | 302.32     | 305.67     | 319.25     | 329.20     | 328.47     |
| 63  | 300.83     | 299.86     | 302.59     | 291.49     | 284.85     | 278.62     | 285.32     | 290.25     | 300.53     | 298.97     |
| 66  | 270.11     | 269.63     | 272.06     | 262.65     | 256.89     | 256.59     | 254.16     | 260.11     | 270.25     | 267.64     |
| 69  | 238.09     | 238.43     | 237.79     | 231.19     | 230.07     | 223.79     | 221.98     | 228.10     | 235.32     | 233.82     |
| 72  | 206.22     | 207.60     | 204.48     | 201.57     | 203.18     | 196.07     | 192.29     | 195.06     | 199.81     | 198.50     |
| 75  | 167.54     | 170.26     | 167.37     | 170.93     | 168.70     | 166.31     | 162.67     | 162.99     | 167.80     | 164.67     |
| 78  | 121.89     | 122.16     | 126.83     | 132.75     | 133.35     | 135.94     | 133.96     | 131.31     | 136.13     | 132.36     |
| 81  | 77.31      | 78.58      | 83.29      | 90.62      | 94.83      | 99.48      | 102.94     | 95.05      | 98.22      | 95.53      |
| 84  | 34.24      | 33.95      | 38.94      | 43.71      | 49.61      | 60.75      | 64.32      | 68.09      | 66.02      | 67.72      |
| 87  | 10.52      | 10.43      | 10.31      | 11.92      | 15.63      | 16.01      | 27.42      | 36.21      | 37.91      | 33.48      |
| 90  | 2.54       | 1.75       | 2.00       | 1.98       | 2.77       | 3.69       | 4.94       | 9.51       | 18.94      | 4.21       |
| 93  | 1.03       | 1.06       | 0.66       | 1.18       | 1.01       | 1.34       | 1.63       | 4.21       | 1.30       | 0.24       |
| 96  | 0.15       | 0.07       | 0.05       | 0.21       | 0.29       | 0.05       | 0.14       | 1.54       | 0.38       | 0.01       |
| 99  | 0.06       | 0.05       | 0.04       | 0.02       | 0.20       | 0.09       | 0.19       | 0.49       | 0.01       | 0.00       |
| 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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**PHOTOMETRIC FILENAME : L44IRX48LED24DMV35.IES**

**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. Angles**      **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   | 629.31     | 629.31     | 629.31     | 629.31     | 629.31     | 629.31     | 629.31     | 629.31     | 629.31     | 629.31     |
| 3   | 630.20     | 629.58     | 628.98     | 628.27     | 627.78     | 627.45     | 627.26     | 627.28     | 627.32     | 627.48     |
| 6   | 627.92     | 626.45     | 624.89     | 623.62     | 623.02     | 622.96     | 623.43     | 624.24     | 625.12     | 625.96     |
| 9   | 623.14     | 621.88     | 620.09     | 618.64     | 618.56     | 620.12     | 622.20     | 623.62     | 623.83     | 623.69     |
| 12  | 619.45     | 619.63     | 617.97     | 615.54     | 614.63     | 616.67     | 619.61     | 621.04     | 619.71     | 617.41     |
| 15  | 616.91     | 617.45     | 615.47     | 611.80     | 609.56     | 610.40     | 611.51     | 612.27     | 611.98     | 611.04     |
| 18  | 611.71     | 611.90     | 609.18     | 604.45     | 601.68     | 602.59     | 602.28     | 601.37     | 603.97     | 605.92     |
| 21  | 603.82     | 602.72     | 599.71     | 593.29     | 590.45     | 592.99     | 593.24     | 592.27     | 593.40     | 596.37     |
| 24  | 591.80     | 588.40     | 587.44     | 580.49     | 576.46     | 579.81     | 581.14     | 579.85     | 578.06     | 580.33     |
| 27  | 574.22     | 573.66     | 573.74     | 566.36     | 562.22     | 563.94     | 564.11     | 559.56     | 560.46     | 564.13     |
| 30  | 555.01     | 559.29     | 559.57     | 550.78     | 547.67     | 547.54     | 545.54     | 537.82     | 543.81     | 549.35     |
| 33  | 535.19     | 545.52     | 546.18     | 536.01     | 533.95     | 528.47     | 526.00     | 521.17     | 526.57     | 531.88     |
| 36  | 515.10     | 529.22     | 526.84     | 516.81     | 516.79     | 508.50     | 506.00     | 505.62     | 509.17     | 514.03     |
| 39  | 497.51     | 501.80     | 499.66     | 493.42     | 494.18     | 489.67     | 488.08     | 486.30     | 493.30     | 495.45     |
| 42  | 477.89     | 471.46     | 474.80     | 473.10     | 475.46     | 471.47     | 469.69     | 465.64     | 475.51     | 473.15     |
| 45  | 448.45     | 444.31     | 453.69     | 454.09     | 456.90     | 454.34     | 449.13     | 446.84     | 453.44     | 452.16     |
| 48  | 422.64     | 423.64     | 431.86     | 431.13     | 434.99     | 433.14     | 428.01     | 429.04     | 430.49     | 432.22     |
| 51  | 388.57     | 402.40     | 403.47     | 406.78     | 413.24     | 408.08     | 407.30     | 410.34     | 409.84     | 409.03     |
| 54  | 361.17     | 371.11     | 373.32     | 384.09     | 389.81     | 387.63     | 383.38     | 389.03     | 387.10     | 384.71     |
| 57  | 334.31     | 340.52     | 350.43     | 359.75     | 365.81     | 367.42     | 359.99     | 364.07     | 363.47     | 359.60     |
| 60  | 310.49     | 311.45     | 325.35     | 331.86     | 339.32     | 341.66     | 335.78     | 336.75     | 338.24     | 334.26     |
| 63  | 289.37     | 286.24     | 293.24     | 302.75     | 311.92     | 313.06     | 308.89     | 308.60     | 312.08     | 307.87     |
| 66  | 258.76     | 261.84     | 265.15     | 275.50     | 282.21     | 283.03     | 278.42     | 279.54     | 282.33     | 277.71     |
| 69  | 228.21     | 229.93     | 236.58     | 244.13     | 251.34     | 251.26     | 248.13     | 248.83     | 249.04     | 245.05     |
| 72  | 200.02     | 200.01     | 208.11     | 211.99     | 218.48     | 218.23     | 217.10     | 214.80     | 214.01     | 212.31     |
| 75  | 169.95     | 171.60     | 175.94     | 181.03     | 178.46     | 179.11     | 176.50     | 175.41     | 172.76     | 174.13     |
| 78  | 137.78     | 142.61     | 141.11     | 142.01     | 134.49     | 124.79     | 127.75     | 128.35     | 125.90     | 125.62     |
| 81  | 103.66     | 99.60      | 92.82      | 86.91      | 76.17      | 71.32      | 69.13      | 68.67      | 70.22      | 71.54      |
| 84  | 63.54      | 55.50      | 44.26      | 38.03      | 34.59      | 28.19      | 27.51      | 26.57      | 29.06      | 28.71      |
| 87  | 21.95      | 13.18      | 12.89      | 9.80       | 10.33      | 7.29       | 8.22       | 8.30       | 8.36       | 7.19       |
| 90  | 2.11       | 0.73       | 0.61       | 0.15       | 0.11       | 0.29       | 0.79       | 1.05       | 0.22       | 0.31       |
| 93  | 0.16       | 0.12       | 0.02       | 0.03       | 0.03       | 0.03       | 0.04       | 0.00       | 0.02       | 0.01       |
| 96  | 0.03       | 0.06       | 0.09       | 0.03       | 0.01       | 0.01       | 0.00       | 0.00       | 0.00       | 0.01       |
| 99  | 0.19       | 0.19       | 0.19       | 0.03       | 0.09       | 0.10       | 0.00       | 0.00       | 0.00       | 0.09       |
| 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 : L44IRX48LED24DMV35.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**

|    | <u>300</u> | <u>310</u> | <u>320</u> | <u>330</u> | <u>340</u> | <u>350</u> | <u>360</u> |
|----|------------|------------|------------|------------|------------|------------|------------|
| 0  | 629.31     | 629.31     | 629.31     | 629.31     | 629.31     | 629.31     | 629.31     |
| 3  | 627.64     | 627.75     | 627.78     | 627.73     | 627.39     | 627.14     | 626.83     |
| 6  | 627.02     | 627.97     | 628.47     | 628.45     | 627.82     | 626.72     | 625.43     |
| 9  | 624.52     | 627.01     | 629.63     | 631.02     | 630.26     | 628.19     | 625.88     |
| 12 | 617.53     | 621.71     | 627.09     | 629.72     | 628.97     | 626.53     | 623.92     |
| 15 | 610.62     | 614.26     | 619.78     | 621.61     | 619.61     | 616.62     | 615.49     |
| 18 | 605.44     | 607.06     | 610.01     | 609.38     | 603.73     | 603.29     | 602.36     |
| 21 | 596.44     | 596.80     | 599.54     | 597.44     | 590.73     | 588.69     | 587.12     |
| 24 | 582.52     | 583.69     | 585.84     | 582.74     | 578.97     | 574.69     | 569.55     |
| 27 | 567.93     | 568.79     | 570.31     | 566.79     | 563.64     | 559.11     | 549.37     |
| 30 | 549.98     | 549.78     | 550.83     | 546.71     | 545.08     | 540.04     | 528.88     |
| 33 | 529.58     | 529.49     | 528.73     | 522.57     | 522.43     | 517.84     | 510.04     |
| 36 | 509.52     | 508.04     | 504.11     | 497.55     | 496.73     | 495.74     | 491.16     |
| 39 | 488.86     | 485.14     | 479.36     | 472.12     | 474.32     | 477.90     | 470.65     |
| 42 | 469.54     | 460.40     | 457.88     | 452.16     | 452.76     | 457.62     | 451.14     |
| 45 | 448.19     | 434.29     | 434.18     | 430.59     | 431.66     | 428.61     | 434.03     |
| 48 | 425.34     | 410.65     | 409.80     | 405.84     | 409.34     | 399.98     | 411.91     |
| 51 | 402.55     | 389.04     | 385.16     | 379.76     | 381.00     | 379.91     | 379.33     |
| 54 | 376.55     | 365.60     | 358.22     | 350.20     | 357.94     | 357.96     | 347.19     |
| 57 | 351.03     | 340.50     | 334.31     | 324.55     | 331.94     | 330.85     | 325.24     |
| 60 | 324.93     | 316.80     | 308.04     | 297.49     | 299.22     | 303.05     | 302.49     |
| 63 | 299.91     | 291.63     | 278.09     | 271.41     | 269.25     | 271.64     | 267.72     |
| 66 | 273.36     | 264.19     | 252.72     | 247.35     | 237.26     | 233.16     | 229.46     |
| 69 | 244.01     | 233.70     | 227.01     | 217.60     | 209.50     | 199.04     | 197.82     |
| 72 | 211.71     | 204.40     | 200.66     | 189.27     | 182.46     | 171.54     | 169.18     |
| 75 | 172.59     | 173.55     | 166.80     | 160.87     | 154.00     | 140.92     | 137.82     |
| 78 | 128.42     | 131.93     | 129.58     | 130.44     | 122.88     | 107.93     | 103.73     |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L44IRX48LED24DMV35.IES**

**CANDELA TABULATION - (Cont.)**

|            |       |       |       |       |       |       |       |
|------------|-------|-------|-------|-------|-------|-------|-------|
| <b>81</b>  | 74.15 | 83.31 | 89.69 | 95.63 | 93.91 | 77.35 | 73.52 |
| <b>84</b>  | 31.33 | 35.71 | 42.18 | 53.73 | 53.53 | 48.95 | 42.41 |
| <b>87</b>  | 7.70  | 8.62  | 11.60 | 12.64 | 15.62 | 18.56 | 14.94 |
| <b>90</b>  | 0.10  | 0.15  | 0.31  | 0.21  | 0.83  | 1.19  | 1.41  |
| <b>93</b>  | 0.01  | 0.00  | 0.01  | 0.00  | 0.00  | 0.01  | 0.65  |
| <b>96</b>  | 0.01  | 0.00  | 0.09  | 0.05  | 0.02  | 0.00  | 0.05  |
| <b>99</b>  | 0.08  | 0.01  | 0.05  | 0.13  | 0.15  | 0.00  | 0.01  |
| <b>102</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>105</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>108</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>111</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>114</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>117</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>120</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>123</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>126</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>129</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>132</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>135</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>138</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>141</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>144</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>147</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>150</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>153</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>156</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>159</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>162</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>165</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>168</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>171</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>174</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>177</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| <b>180</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L44IRX48LED24DMV35.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 189.10  | N.A.  | 9.60   |
| 0-30    | 494.99  | N.A.  | 25.20  |
| 0-40    | 781.85  | N.A.  | 39.80  |
| 0-60    | 1479.19 | N.A.  | 75.30  |
| 0-80    | 1894.88 | N.A.  | 96.50  |
| 0-90    | 1963.35 | N.A.  | 100.00 |
| 10-90   | 1915.00 | N.A.  | 97.50  |
| 20-40   | 592.75  | N.A.  | 30.20  |
| 20-50   | 898.70  | N.A.  | 45.80  |
| 40-70   | 941.97  | N.A.  | 48.00  |
| 60-80   | 415.69  | N.A.  | 21.20  |
| 70-80   | 171.06  | N.A.  | 8.70   |
| 80-90   | 68.47   | N.A.  | 3.50   |
| 90-110  | 0.77    | N.A.  | 0.00   |
| 90-120  | 0.77    | N.A.  | 0.00   |
| 90-130  | 0.77    | N.A.  | 0.00   |
| 90-150  | 0.77    | N.A.  | 0.00   |
| 90-180  | 0.77    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 1964.12 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 48.35  |
| 10-20   | 140.75 |
| 20-30   | 305.89 |
| 30-40   | 286.85 |
| 40-50   | 305.96 |
| 50-60   | 391.38 |
| 60-70   | 244.63 |
| 70-80   | 171.06 |
| 80-90   | 68.47  |
| 90-100  | 0.75   |
| 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 : L44IRX48LED24DMV35.IES**

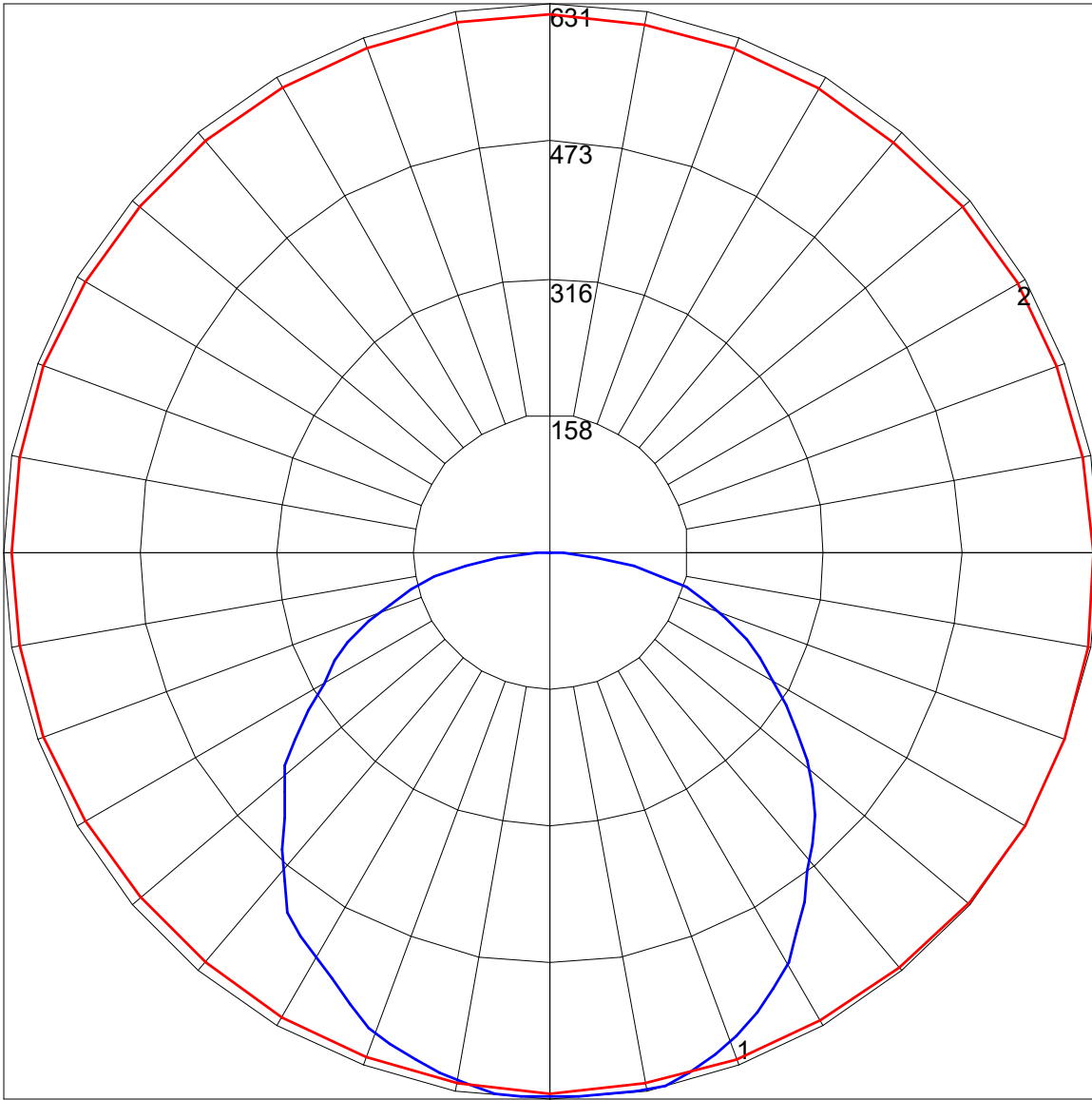
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

| RC | 80  |     |     |     | 70  |     |     |     | 50  |     |     | 30  |     |     | 10  |     |     | 0   |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|    | RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| 0  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 108 | 102 | 98  | 93  | 105 | 100 | 96  | 92  | 96  | 92  | 89  | 92  | 89  | 86  | 88  | 86  | 83  | 81  |
| 2  | 97  | 88  | 81  | 75  | 94  | 86  | 79  | 74  | 83  | 77  | 72  | 79  | 74  | 70  | 76  | 72  | 69  | 66  |
| 3  | 88  | 77  | 68  | 61  | 85  | 75  | 67  | 60  | 72  | 65  | 59  | 69  | 63  | 58  | 67  | 62  | 57  | 55  |
| 4  | 80  | 68  | 58  | 51  | 78  | 66  | 57  | 51  | 64  | 56  | 50  | 61  | 55  | 49  | 59  | 53  | 49  | 46  |
| 5  | 73  | 60  | 50  | 43  | 71  | 59  | 50  | 43  | 57  | 49  | 43  | 55  | 48  | 42  | 53  | 47  | 42  | 39  |
| 6  | 68  | 54  | 44  | 38  | 66  | 53  | 44  | 37  | 51  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 36  | 34  |
| 7  | 63  | 48  | 39  | 33  | 61  | 48  | 39  | 33  | 46  | 38  | 32  | 45  | 37  | 32  | 43  | 37  | 32  | 30  |
| 8  | 58  | 44  | 35  | 29  | 56  | 43  | 35  | 29  | 42  | 34  | 29  | 41  | 34  | 29  | 39  | 33  | 28  | 26  |
| 9  | 54  | 40  | 32  | 26  | 53  | 40  | 32  | 26  | 39  | 31  | 26  | 37  | 31  | 26  | 36  | 30  | 25  | 24  |
| 10 | 51  | 37  | 29  | 23  | 49  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 21  |



POLAR GRAPH



Maximum Candela = 631.02 Located At Horizontal Angle = 330, Vertical Angle = 9  
# 1 - Vertical Plane Through Horizontal Angles (330 - 150) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (9) (Through Max. Cd.)