

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : RWG-4-L90-835-S-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 14794038.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 11 DEC 2023  
[TEST DATE] 5/11/2023  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] RWG-4-L90-835-S-DIM-UNV  
[LUMINAIRE] 48 INCH RECESSED LINEAR WALL WASH  
[MORE] WITH SPECULAR REFL AND LENS OVER LEDS  
[LAMP] LED  
[BALLAST] 0-10V DIMMABLE LED DRIVER  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] INDOOR  
[SEARCH\_MOUNTING] RECESSED

### CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 9047            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 96              |
| Total Luminaire Watts           | 94              |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 2.40            |
| Spacing Criterion (90-270)      | 1.22            |
| Spacing Criterion (Diagonal)    | 1.60            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 0.81 ft         |
| Luminous Width (90-270)         | 4.00 ft         |
| Luminous Height                 | 0.00 ft         |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 22052            | 18383             | 6365              |
| 55                  | 24203            | 18251             | 5814              |
| 65                  | 30507            | 18866             | 5208              |
| 75                  | 20368            | 19647             | 4747              |
| 85                  | 34598            | 19091             | 4469              |

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**CANDELA TABULATION**

|      | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> |
|------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| 0.0  | 2340.589   | 2340.589    | 2340.589    | 2340.589    | 2340.589    | 2340.589     | 2340.589     | 2340.589     | 2340.589     |
| 0.5  | 2312.801   | 2379.064    | 2396.164    | 2402.577    | 2383.339    | 2351.276     | 2304.251     | 2261.500     | 2184.549     |
| 1.0  | 2376.927   | 2438.915    | 2443.190    | 2428.227    | 2383.339    | 2325.626     | 2259.363     | 2203.787     | 2122.989     |
| 1.5  | 2443.190   | 2503.040    | 2494.490    | 2456.015    | 2383.339    | 2302.113     | 2214.475     | 2146.074     | 2063.138     |
| 2.0  | 2513.728   | 2567.166    | 2543.653    | 2481.665    | 2385.477    | 2278.600     | 2171.724     | 2089.430     | 2004.356     |
| 2.5  | 2582.129   | 2629.154    | 2592.816    | 2507.316    | 2387.614    | 2255.088     | 2127.905     | 2032.785     | 1946.643     |
| 3.0  | 2652.667   | 2697.555    | 2644.117    | 2535.103    | 2387.614    | 2231.575     | 2084.941     | 1978.065     | 1889.357     |
| 3.5  | 2725.343   | 2763.818    | 2693.280    | 2560.754    | 2387.614    | 2208.062     | 2041.549     | 1924.627     | 1835.278     |
| 4.0  | 2798.019   | 2832.219    | 2746.718    | 2588.541    | 2387.614    | 2182.412     | 1999.226     | 1870.547     | 1780.130     |
| 4.5  | 2872.832   | 2900.620    | 2798.019    | 2614.192    | 2385.477    | 2156.762     | 1958.613     | 1819.033     | 1726.692     |
| 5.0  | 2949.783   | 2971.158    | 2851.457    | 2639.842    | 2385.477    | 2132.608     | 1918.000     | 1768.801     | 1676.246     |
| 5.5  | 3024.596   | 3043.834    | 2904.895    | 2665.492    | 2381.202    | 2108.881     | 1877.387     | 1718.997     | 1624.304     |
| 6.0  | 3101.547   | 3116.510    | 2958.333    | 2691.143    | 2379.064    | 2084.086     | 1836.988     | 1670.261     | 1571.935     |
| 6.5  | 3178.498   | 3191.323    | 3009.634    | 2716.793    | 2376.927    | 2059.077     | 1796.589     | 1620.884     | 1521.276     |
| 7.0  | 3257.586   | 3266.137    | 3065.209    | 2740.306    | 2374.789    | 2034.709     | 1758.327     | 1572.149     | 1477.243     |
| 7.5  | 3338.812   | 3340.950    | 3118.647    | 2765.956    | 2372.652    | 2010.341     | 1718.355     | 1527.261     | 1440.050     |
| 8.0  | 3417.901   | 3413.626    | 3169.948    | 2791.606    | 2370.514    | 1985.760     | 1679.880     | 1485.793     | 1400.078     |
| 8.5  | 3492.714   | 3488.439    | 3225.524    | 2815.119    | 2364.101    | 1961.178     | 1641.618     | 1450.096     | 1363.954     |
| 9.0  | 3569.665   | 3563.252    | 3276.824    | 2840.769    | 2359.826    | 1935.528     | 1601.860     | 1413.758     | 1329.326     |
| 9.5  | 3655.166   | 3638.066    | 3332.400    | 2864.282    | 2353.414    | 1910.946     | 1565.309     | 1380.199     | 1299.615     |
| 10.0 | 3732.117   | 3710.741    | 3385.838    | 2887.795    | 2349.139    | 1885.510     | 1527.261     | 1350.060     | 1266.483     |
| 10.5 | 3813.343   | 3785.555    | 3439.276    | 2911.308    | 2342.726    | 1860.715     | 1494.557     | 1320.562     | 1233.351     |
| 11.0 | 3890.293   | 3856.093    | 3490.577    | 2932.683    | 2338.451    | 1836.774     | 1463.349     | 1289.782     | 1201.288     |
| 11.5 | 3967.244   | 3926.631    | 3541.877    | 2954.058    | 2332.039    | 1810.910     | 1433.210     | 1259.002     | 1169.867     |
| 12.0 | 4042.058   | 3997.170    | 3593.178    | 2975.433    | 2325.626    | 1787.397     | 1404.994     | 1228.862     | 1139.300     |
| 12.5 | 4121.146   | 4067.708    | 3646.616    | 2998.946    | 2319.213    | 1761.106     | 1376.352     | 1199.151     | 1109.589     |
| 13.0 | 4195.959   | 4138.246    | 3697.916    | 3020.321    | 2312.801    | 1735.883     | 1349.633     | 1170.936     | 1080.091     |
| 13.5 | 4268.635   | 4204.509    | 3751.354    | 3041.696    | 2304.251    | 1711.088     | 1329.967     | 1143.148     | 1052.303     |
| 14.0 | 4339.173   | 4272.910    | 3798.380    | 3063.072    | 2295.701    | 1685.224     | 1304.958     | 1114.719     | 1023.233     |
| 14.5 | 4411.849   | 4341.311    | 3849.681    | 3080.172    | 2287.151    | 1661.284     | 1280.163     | 1087.572     | 996.514      |
| 15.0 | 4484.525   | 4405.437    | 3896.706    | 3101.547    | 2278.600    | 1637.130     | 1255.154     | 1060.853     | 969.795      |
| 15.5 | 4559.338   | 4471.700    | 3945.869    | 3120.785    | 2272.188    | 1612.334     | 1231.214     | 1034.775     | 943.717      |
| 16.0 | 4623.464   | 4533.688    | 3990.757    | 3140.023    | 2263.638    | 1588.180     | 1207.273     | 1009.553     | 919.777      |
| 16.5 | 4687.590   | 4595.676    | 4035.645    | 3159.260    | 2252.950    | 1561.675     | 1183.761     | 984.971      | 893.485      |
| 17.0 | 4747.441   | 4655.527    | 4082.671    | 3178.498    | 2244.400    | 1536.666     | 1160.889     | 960.817      | 869.331      |
| 17.5 | 4805.154   | 4713.240    | 4127.559    | 3195.598    | 2233.712    | 1512.084     | 1138.231     | 937.304      | 846.032      |
| 18.0 | 4860.729   | 4766.678    | 4174.584    | 3216.973    | 2223.025    | 1487.717     | 1116.642     | 913.150      | 821.664      |
| 18.5 | 4912.030   | 4817.979    | 4217.335    | 3234.074    | 2214.475    | 1463.135     | 1094.412     | 890.706      | 800.075      |
| 19.0 | 4963.330   | 4867.142    | 4255.810    | 3251.174    | 2203.787    | 1440.477     | 1071.968     | 868.048      | 776.135      |
| 19.5 | 5014.631   | 4912.030    | 4296.423    | 3266.137    | 2190.962    | 1419.957     | 1051.020     | 845.391      | 754.118      |
| 20.0 | 5061.657   | 4954.780    | 4334.898    | 3281.099    | 2182.412    | 1399.009     | 1028.790     | 823.588      | 732.957      |
| 20.5 | 5112.957   | 4999.668    | 4373.374    | 3300.337    | 2171.724    | 1378.703     | 1008.698     | 801.571      | 710.513      |
| 21.0 | 5153.570   | 5040.281    | 4409.712    | 3313.162    | 2158.899    | 1359.251     | 987.964      | 781.265      | 690.420      |
| 21.5 | 5196.321   | 5078.757    | 4443.912    | 3330.262    | 2148.212    | 1342.579     | 967.230      | 760.745      | 669.259      |
| 22.0 | 5232.658   | 5117.232    | 4475.975    | 3343.087    | 2135.173    | 1324.410     | 947.778      | 740.225      | 649.380      |
| 22.5 | 5268.996   | 5153.570    | 4503.763    | 3353.775    | 2121.492    | 1306.668     | 927.472      | 719.918      | 629.715      |
| 23.0 | 5303.197   | 5189.908    | 4531.551    | 3368.738    | 2110.591    | 1287.431     | 908.234      | 700.467      | 608.767      |
| 23.5 | 5343.810   | 5221.971    | 4550.788    | 3379.425    | 2097.338    | 1269.475     | 888.996      | 681.229      | 592.094      |
| 24.0 | 5375.873   | 5251.896    | 4572.164    | 3390.113    | 2085.796    | 1249.596     | 869.545      | 662.419      | 572.429      |
| 24.5 | 5405.798   | 5277.546    | 4591.401    | 3400.801    | 2071.474    | 1230.573     | 851.376      | 643.822      | 554.474      |
| 25.0 | 5431.448   | 5301.059    | 4608.502    | 3411.488    | 2058.222    | 1211.549     | 831.924      | 626.081      | 537.801      |
| 25.5 | 5448.548   | 5328.847    | 4627.739    | 3420.038    | 2043.473    | 1192.952     | 814.183      | 608.553      | 519.846      |
| 26.0 | 5465.649   | 5348.085    | 4646.977    | 3426.451    | 2028.083    | 1175.424     | 796.655      | 591.453      | 504.242      |
| 26.5 | 5472.061   | 5363.047    | 4661.940    | 3432.863    | 2013.548    | 1156.614     | 778.914      | 574.566      | 487.142      |

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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |          |         |         |         |
|------|----------|----------|----------|----------|----------|----------|---------|---------|---------|
| 27.0 | 5472.061 | 5373.735 | 4676.902 | 3439.276 | 1998.585 | 1139.514 | 762.241 | 557.894 | 471.110 |
| 27.5 | 5467.786 | 5375.873 | 4685.452 | 3443.551 | 1981.698 | 1121.559 | 744.286 | 542.290 | 456.575 |
| 28.0 | 5463.511 | 5373.735 | 4696.140 | 3445.689 | 1968.660 | 1103.817 | 727.613 | 526.045 | 440.544 |
| 28.5 | 5457.098 | 5367.322 | 4704.690 | 3449.964 | 1951.132 | 1087.145 | 711.582 | 511.296 | 426.864 |
| 29.0 | 5446.411 | 5356.635 | 4713.240 | 3454.239 | 1936.383 | 1069.189 | 694.909 | 496.547 | 412.328 |
| 29.5 | 5435.723 | 5343.810 | 4719.653 | 3454.239 | 1919.710 | 1052.731 | 679.733 | 482.225 | 398.221 |
| 30.0 | 5416.486 | 5328.847 | 4721.790 | 3452.101 | 1901.755 | 1035.417 | 663.701 | 468.331 | 385.609 |
| 30.5 | 5399.385 | 5313.884 | 4723.928 | 3452.101 | 1885.510 | 1018.530 | 648.952 | 454.010 | 371.288 |
| 31.0 | 5386.560 | 5298.922 | 4721.790 | 3449.964 | 1867.982 | 1002.285 | 633.776 | 441.185 | 359.532 |
| 31.5 | 5369.460 | 5279.684 | 4719.653 | 3447.826 | 1853.019 | 985.826  | 618.813 | 428.146 | 346.920 |
| 32.0 | 5354.497 | 5258.309 | 4713.240 | 3445.689 | 1836.561 | 969.367  | 604.919 | 415.321 | 334.950 |
| 32.5 | 5333.122 | 5236.934 | 4704.690 | 3439.276 | 1818.605 | 952.481  | 589.743 | 403.137 | 323.621 |
| 33.0 | 5313.884 | 5209.146 | 4689.727 | 3437.138 | 1802.574 | 936.022  | 576.063 | 390.953 | 311.651 |
| 33.5 | 5296.784 | 5187.770 | 4679.040 | 3430.726 | 1783.977 | 919.990  | 562.596 | 379.410 | 301.391 |
| 34.0 | 5275.409 | 5164.258 | 4664.077 | 3426.451 | 1766.022 | 903.745  | 548.916 | 368.295 | 290.276 |
| 34.5 | 5254.034 | 5138.607 | 4640.564 | 3417.901 | 1750.205 | 887.927  | 536.946 | 356.966 | 279.588 |
| 35.0 | 5230.521 | 5112.957 | 4617.052 | 3409.351 | 1730.967 | 871.682  | 523.266 | 346.065 | 269.756 |
| 35.5 | 5207.008 | 5085.169 | 4589.264 | 3400.801 | 1714.294 | 855.223  | 510.441 | 335.591 | 259.495 |
| 36.0 | 5183.495 | 5057.382 | 4561.476 | 3390.113 | 1695.056 | 839.833  | 497.829 | 324.904 | 250.304 |
| 36.5 | 5166.395 | 5027.456 | 4533.688 | 3379.425 | 1677.529 | 824.229  | 485.218 | 315.071 | 241.113 |
| 37.0 | 5140.745 | 4995.393 | 4503.763 | 3370.875 | 1661.070 | 809.053  | 473.462 | 305.238 | 231.921 |
| 37.5 | 5115.095 | 4963.330 | 4473.838 | 3355.913 | 1639.908 | 793.876  | 461.491 | 295.833 | 223.585 |
| 38.0 | 5087.307 | 4929.130 | 4441.775 | 3340.950 | 1622.167 | 777.845  | 449.521 | 286.428 | 214.394 |
| 38.5 | 5055.244 | 4897.067 | 4407.574 | 3325.987 | 1602.502 | 762.882  | 438.192 | 277.237 | 206.057 |
| 39.0 | 5031.731 | 4865.004 | 4373.374 | 3311.025 | 1582.623 | 747.920  | 426.650 | 268.473 | 198.148 |
| 39.5 | 5006.081 | 4830.804 | 4339.173 | 3293.924 | 1565.309 | 733.598  | 415.748 | 259.709 | 190.240 |
| 40.0 | 4978.293 | 4796.604 | 4300.698 | 3276.824 | 1545.216 | 719.277  | 405.061 | 251.587 | 182.758 |
| 40.5 | 4950.505 | 4758.128 | 4264.360 | 3259.724 | 1527.261 | 704.528  | 394.373 | 243.250 | 175.063 |
| 41.0 | 4922.718 | 4723.928 | 4223.747 | 3242.624 | 1508.451 | 690.420  | 384.113 | 235.555 | 168.223 |
| 41.5 | 4894.930 | 4691.865 | 4189.547 | 3225.524 | 1488.144 | 676.313  | 374.067 | 228.288 | 161.597 |
| 42.0 | 4867.142 | 4657.665 | 4153.209 | 3208.423 | 1470.189 | 662.846  | 365.089 | 220.806 | 155.184 |
| 42.5 | 4841.492 | 4627.739 | 4116.871 | 3191.323 | 1450.951 | 649.594  | 356.111 | 213.966 | 149.413 |
| 43.0 | 4813.704 | 4597.814 | 4080.533 | 3172.085 | 1432.355 | 636.341  | 347.134 | 207.554 | 143.214 |
| 43.5 | 4790.191 | 4565.751 | 4042.058 | 3150.710 | 1414.613 | 623.516  | 338.370 | 200.927 | 137.657 |
| 44.0 | 4764.541 | 4535.826 | 4003.582 | 3131.472 | 1396.017 | 610.904  | 329.820 | 194.942 | 132.099 |
| 44.5 | 4743.166 | 4505.900 | 3967.244 | 3112.235 | 1378.917 | 598.293  | 321.911 | 188.957 | 126.969 |
| 45.0 | 4715.378 | 4475.975 | 3930.906 | 3092.997 | 1360.961 | 586.537  | 314.430 | 183.400 | 122.266 |
| 45.5 | 4691.865 | 4446.050 | 3892.431 | 3071.622 | 1344.503 | 574.139  | 306.307 | 177.842 | 117.350 |
| 46.0 | 4670.490 | 4418.262 | 3853.956 | 3048.109 | 1328.471 | 562.596  | 299.467 | 172.284 | 112.648 |
| 46.5 | 4644.839 | 4390.474 | 3815.480 | 3026.734 | 1312.012 | 551.054  | 291.772 | 167.154 | 108.372 |
| 47.0 | 4621.327 | 4362.686 | 3777.005 | 3003.221 | 1294.912 | 539.511  | 284.718 | 162.024 | 103.884 |
| 47.5 | 4599.951 | 4337.036 | 3740.667 | 2981.846 | 1276.743 | 528.610  | 278.092 | 157.108 | 99.822  |
| 48.0 | 4576.439 | 4304.973 | 3697.916 | 2956.196 | 1258.147 | 517.495  | 271.252 | 152.405 | 95.761  |
| 48.5 | 4548.651 | 4275.048 | 3659.441 | 2930.545 | 1241.046 | 506.593  | 264.625 | 147.489 | 91.914  |
| 49.0 | 4523.001 | 4242.985 | 3618.828 | 2904.895 | 1222.236 | 495.906  | 257.999 | 143.000 | 88.280  |
| 49.5 | 4495.213 | 4213.060 | 3578.215 | 2879.245 | 1204.067 | 485.218  | 251.587 | 138.939 | 84.860  |
| 50.0 | 4469.562 | 4183.134 | 3544.015 | 2851.457 | 1186.112 | 475.172  | 245.815 | 134.664 | 81.653  |
| 50.5 | 4441.775 | 4151.071 | 3505.539 | 2821.532 | 1167.302 | 464.911  | 239.830 | 130.816 | 78.447  |
| 51.0 | 4411.849 | 4119.009 | 3464.926 | 2791.606 | 1149.560 | 455.079  | 234.059 | 126.755 | 75.241  |
| 51.5 | 4384.061 | 4091.221 | 3424.313 | 2757.406 | 1131.178 | 445.246  | 228.288 | 122.908 | 72.462  |
| 52.0 | 4358.411 | 4059.158 | 3387.975 | 2723.205 | 1113.864 | 435.414  | 222.516 | 119.274 | 69.683  |
| 52.5 | 4332.761 | 4029.233 | 3351.637 | 2689.005 | 1097.191 | 426.222  | 217.386 | 115.854 | 67.118  |
| 53.0 | 4307.111 | 3995.032 | 3313.162 | 2654.805 | 1078.595 | 417.031  | 212.042 | 112.648 | 64.553  |
| 53.5 | 4281.460 | 3965.107 | 3274.687 | 2618.467 | 1061.281 | 408.053  | 206.699 | 109.441 | 62.202  |
| 54.0 | 4251.535 | 3937.319 | 3238.349 | 2582.129 | 1043.112 | 398.648  | 201.782 | 106.235 | 59.851  |
| 54.5 | 4225.885 | 3905.256 | 3202.011 | 2545.791 | 1025.156 | 389.884  | 196.438 | 103.242 | 57.713  |

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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |         |         |         |        |
|------|----------|----------|----------|----------|----------|---------|---------|---------|--------|
| 55.0 | 4198.097 | 3877.468 | 3165.673 | 2509.453 | 1008.484 | 381.548 | 191.522 | 100.250 | 55.576 |
| 55.5 | 4168.172 | 3845.405 | 3127.197 | 2470.978 | 989.887  | 373.212 | 186.606 | 97.471  | 53.438 |
| 56.0 | 4142.521 | 3813.343 | 3090.860 | 2430.365 | 973.215  | 364.875 | 181.690 | 94.692  | 51.728 |
| 56.5 | 4112.596 | 3779.142 | 3052.384 | 2391.889 | 955.687  | 356.325 | 177.201 | 92.127  | 49.804 |
| 57.0 | 4082.671 | 3747.079 | 3011.771 | 2353.414 | 937.304  | 348.203 | 172.284 | 89.562  | 48.094 |
| 57.5 | 4057.020 | 3712.879 | 2977.571 | 2314.938 | 921.059  | 340.294 | 167.796 | 87.211  | 46.384 |
| 58.0 | 4024.957 | 3678.679 | 2939.095 | 2274.325 | 902.676  | 332.599 | 163.521 | 84.860  | 44.888 |
| 58.5 | 3999.307 | 3642.341 | 2902.757 | 2233.712 | 885.362  | 325.117 | 159.246 | 82.722  | 43.392 |
| 59.0 | 3973.657 | 3610.278 | 2866.420 | 2195.237 | 868.048  | 317.850 | 155.398 | 80.371  | 41.895 |
| 59.5 | 3948.007 | 3576.077 | 2825.807 | 2154.624 | 850.093  | 310.582 | 151.550 | 78.447  | 40.399 |
| 60.0 | 3935.181 | 3544.015 | 2789.469 | 2114.011 | 834.276  | 303.528 | 147.489 | 76.310  | 39.117 |
| 60.5 | 3926.631 | 3516.227 | 2753.131 | 2075.108 | 816.320  | 296.902 | 143.855 | 74.600  | 37.834 |
| 61.0 | 3924.494 | 3486.301 | 2714.655 | 2036.419 | 799.648  | 290.062 | 140.222 | 72.676  | 36.765 |
| 61.5 | 3930.906 | 3458.514 | 2678.317 | 1996.234 | 782.975  | 283.222 | 136.802 | 70.966  | 35.483 |
| 62.0 | 3933.044 | 3437.138 | 2641.980 | 1956.476 | 765.020  | 276.596 | 133.168 | 69.042  | 34.414 |
| 62.5 | 3941.594 | 3422.176 | 2605.642 | 1915.863 | 748.775  | 270.397 | 129.961 | 67.332  | 33.345 |
| 63.0 | 3950.144 | 3413.626 | 2567.166 | 1876.746 | 731.888  | 263.984 | 126.969 | 65.836  | 32.277 |
| 63.5 | 3958.694 | 3405.076 | 2528.691 | 1834.637 | 715.002  | 258.213 | 123.763 | 64.126  | 31.422 |
| 64.0 | 3956.557 | 3398.663 | 2490.215 | 1794.024 | 698.543  | 252.014 | 120.770 | 62.629  | 30.353 |
| 64.5 | 3937.319 | 3396.525 | 2449.602 | 1752.556 | 681.656  | 245.815 | 117.564 | 60.919  | 29.498 |
| 65.0 | 3898.844 | 3390.113 | 2411.127 | 1712.370 | 665.625  | 239.830 | 114.358 | 59.423  | 28.643 |
| 65.5 | 3843.268 | 3379.425 | 2370.514 | 1673.254 | 649.594  | 233.845 | 111.579 | 57.927  | 27.788 |
| 66.0 | 3785.555 | 3349.500 | 2334.176 | 1633.923 | 633.348  | 228.074 | 108.800 | 56.431  | 26.933 |
| 66.5 | 3725.704 | 3300.337 | 2297.838 | 1594.593 | 617.317  | 222.302 | 105.807 | 54.934  | 26.078 |
| 67.0 | 3659.441 | 3242.624 | 2261.500 | 1555.262 | 600.430  | 216.531 | 103.029 | 53.652  | 25.223 |
| 67.5 | 3601.728 | 3180.636 | 2225.162 | 1516.787 | 584.399  | 210.974 | 100.250 | 52.156  | 24.582 |
| 68.0 | 3522.639 | 3122.922 | 2195.237 | 1478.098 | 569.009  | 205.202 | 97.471  | 50.659  | 23.727 |
| 68.5 | 3424.313 | 3060.934 | 2167.449 | 1440.050 | 553.832  | 199.858 | 94.692  | 49.377  | 22.872 |
| 69.0 | 3317.437 | 2996.808 | 2141.799 | 1402.643 | 539.511  | 194.301 | 92.127  | 48.094  | 22.230 |
| 69.5 | 3169.948 | 2915.583 | 2121.706 | 1369.084 | 524.548  | 188.743 | 89.562  | 46.812  | 21.589 |
| 70.0 | 3005.359 | 2812.981 | 2099.690 | 1330.609 | 509.799  | 183.400 | 86.997  | 45.316  | 20.734 |
| 70.5 | 2832.219 | 2701.830 | 2078.742 | 1294.698 | 495.478  | 178.056 | 84.432  | 44.033  | 20.093 |
| 71.0 | 2639.842 | 2571.441 | 2045.610 | 1259.002 | 480.729  | 172.712 | 82.081  | 42.750  | 19.451 |
| 71.5 | 2470.978 | 2421.815 | 1994.737 | 1220.954 | 466.835  | 167.582 | 79.730  | 41.468  | 18.596 |
| 72.0 | 2287.151 | 2274.325 | 1937.024 | 1182.906 | 452.941  | 162.452 | 77.378  | 40.185  | 17.955 |
| 72.5 | 2118.286 | 2117.431 | 1874.822 | 1144.644 | 438.834  | 157.322 | 74.813  | 38.689  | 17.314 |
| 73.0 | 1983.195 | 1960.964 | 1813.903 | 1106.596 | 425.367  | 152.192 | 72.248  | 37.407  | 16.673 |
| 73.5 | 1852.806 | 1817.537 | 1755.121 | 1069.831 | 411.901  | 147.062 | 69.897  | 36.124  | 16.031 |
| 74.0 | 1754.052 | 1682.018 | 1689.285 | 1033.065 | 398.648  | 142.145 | 67.546  | 34.842  | 15.390 |
| 74.5 | 1669.406 | 1574.714 | 1618.533 | 996.300  | 385.182  | 137.015 | 65.194  | 33.559  | 14.749 |
| 75.0 | 1594.165 | 1482.373 | 1537.735 | 959.107  | 371.502  | 132.313 | 62.843  | 32.490  | 14.108 |
| 75.5 | 1540.086 | 1404.567 | 1447.531 | 922.128  | 358.249  | 127.396 | 60.492  | 30.994  | 13.466 |
| 76.0 | 1487.503 | 1342.579 | 1354.121 | 884.080  | 345.210  | 122.694 | 58.141  | 29.925  | 12.611 |
| 76.5 | 1444.752 | 1292.133 | 1255.154 | 846.459  | 332.599  | 117.991 | 55.789  | 28.643  | 11.756 |
| 77.0 | 1405.636 | 1245.108 | 1153.622 | 808.412  | 320.201  | 113.289 | 53.652  | 27.360  | 11.115 |
| 77.5 | 1361.816 | 1201.288 | 1056.151 | 769.936  | 307.803  | 108.586 | 51.301  | 26.078  | 10.688 |
| 78.0 | 1338.731 | 1159.820 | 969.153  | 732.743  | 296.047  | 104.097 | 48.949  | 24.795  | 10.260 |
| 78.5 | 1334.456 | 1124.551 | 895.836  | 697.260  | 284.077  | 99.609  | 46.812  | 23.513  | 9.619  |
| 79.0 | 1335.952 | 1109.802 | 832.352  | 662.205  | 272.748  | 95.120  | 44.460  | 22.444  | 9.191  |
| 79.5 | 1344.716 | 1112.367 | 779.769  | 625.012  | 260.992  | 90.631  | 42.109  | 21.375  | 8.764  |
| 80.0 | 1353.908 | 1119.208 | 734.026  | 585.682  | 249.235  | 86.142  | 39.972  | 20.306  | 8.123  |
| 80.5 | 1362.244 | 1122.414 | 692.771  | 544.855  | 237.051  | 81.653  | 37.620  | 19.024  | 7.695  |
| 81.0 | 1368.015 | 1123.483 | 658.144  | 504.456  | 224.654  | 77.165  | 35.483  | 17.955  | 7.268  |
| 81.5 | 1361.816 | 1123.696 | 635.700  | 466.835  | 212.042  | 72.676  | 33.132  | 16.886  | 6.840  |
| 82.0 | 1326.120 | 1109.802 | 626.081  | 427.932  | 198.362  | 68.187  | 30.994  | 15.818  | 6.413  |
| 82.5 | 1258.574 | 1068.334 | 621.592  | 387.961  | 184.682  | 63.484  | 28.857  | 14.749  | 5.985  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RWG-4-L90-835-S-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |          |          |         |         |         |        |        |        |       |
|-------|----------|----------|---------|---------|---------|--------|--------|--------|-------|
| 83.0  | 1181.196 | 1002.499 | 616.034 | 347.561 | 171.002 | 58.996 | 26.719 | 13.680 | 5.558 |
| 83.5  | 1112.795 | 938.159  | 605.774 | 310.155 | 157.536 | 54.507 | 24.582 | 12.611 | 5.344 |
| 84.0  | 1041.402 | 876.599  | 582.262 | 277.664 | 144.069 | 50.018 | 22.444 | 11.543 | 4.916 |
| 84.5  | 977.917  | 816.320  | 546.351 | 250.090 | 130.816 | 45.529 | 20.306 | 10.474 | 4.703 |
| 85.0  | 911.868  | 756.897  | 503.173 | 226.791 | 117.778 | 41.040 | 18.169 | 9.619  | 4.275 |
| 85.5  | 852.658  | 701.535  | 458.285 | 205.202 | 104.739 | 36.765 | 16.031 | 8.550  | 4.061 |
| 86.0  | 783.403  | 638.051  | 415.107 | 184.041 | 91.914  | 32.277 | 13.894 | 7.481  | 3.634 |
| 86.5  | 687.641  | 558.749  | 368.937 | 162.879 | 79.302  | 27.788 | 11.970 | 6.626  | 3.420 |
| 87.0  | 594.873  | 471.324  | 319.560 | 139.153 | 66.263  | 23.299 | 9.833  | 5.558  | 2.993 |
| 87.5  | 489.920  | 380.479  | 264.839 | 113.289 | 53.438  | 18.810 | 7.909  | 4.703  | 2.779 |
| 88.0  | 380.265  | 283.863  | 201.782 | 86.570  | 40.613  | 14.535 | 6.199  | 3.848  | 2.565 |
| 88.5  | 272.748  | 179.125  | 134.023 | 58.568  | 27.788  | 10.260 | 4.275  | 2.993  | 2.351 |
| 89.0  | 136.160  | 68.187   | 65.836  | 32.704  | 15.390  | 6.199  | 2.993  | 2.351  | 1.924 |
| 89.5  | 37.193   | 10.688   | 19.879  | 15.604  | 8.336   | 3.420  | 2.138  | 1.924  | 1.924 |
| 90.0  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 90.5  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 91.0  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 91.5  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 92.0  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 92.5  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 93.0  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 93.5  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 94.0  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 94.5  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 95.0  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 95.5  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 96.0  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 96.5  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 97.0  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 97.5  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 98.0  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 98.5  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 99.0  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 99.5  | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 100.0 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 100.5 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 101.0 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 101.5 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 102.0 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 102.5 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 103.0 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 103.5 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 104.0 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 104.5 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 105.0 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 105.5 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 106.0 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 106.5 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 107.0 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 107.5 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 108.0 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 108.5 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 109.0 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 109.5 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 110.0 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |
| 110.5 | 0.000    | 0.000    | 0.000   | 0.000   | 0.000   | 0.000  | 0.000  | 0.000  | 0.000 |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : RWG-4-L90-835-S-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

|       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 111.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 111.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 113.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 113.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 114.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 114.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 116.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 116.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 118.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 118.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 119.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 119.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 121.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 121.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 123.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 123.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 124.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 124.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 126.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 126.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 128.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 128.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 129.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 129.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 131.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 131.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 133.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 133.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 134.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 134.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 136.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 136.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 138.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 138.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : RWG-4-L90-835-S-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

|       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 139.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 139.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 141.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 141.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 143.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 143.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 144.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 144.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 146.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 146.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 148.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 148.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 149.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 149.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 151.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 151.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 153.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 153.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 154.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 154.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 156.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 156.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 158.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 158.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 159.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 159.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 161.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 161.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 163.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 163.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 164.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 164.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 166.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 166.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : RWG-4-L90-835-S-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

|       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 167.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 168.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 168.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 169.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 169.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 171.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 171.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 173.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 173.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 174.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 174.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 176.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 176.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 178.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 178.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 179.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 179.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RWG-4-L90-835-S-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 951.70  | N.A.  | 10.50  |
| 0-30    | 2161.42 | N.A.  | 23.90  |
| 0-40    | 3672.51 | N.A.  | 40.60  |
| 0-60    | 6746.52 | N.A.  | 74.60  |
| 0-80    | 8776.21 | N.A.  | 97.00  |
| 0-90    | 9046.78 | N.A.  | 100.00 |
| 10-90   | 8817.89 | N.A.  | 97.50  |
| 20-40   | 2720.81 | N.A.  | 30.10  |
| 20-50   | 4301.45 | N.A.  | 47.50  |
| 40-70   | 4363.08 | N.A.  | 48.20  |
| 60-80   | 2029.69 | N.A.  | 22.40  |
| 70-80   | 740.63  | N.A.  | 8.20   |
| 80-90   | 270.57  | N.A.  | 3.00   |
| 90-110  | 0.00    | N.A.  | 0.00   |
| 90-120  | 0.00    | N.A.  | 0.00   |
| 90-130  | 0.00    | N.A.  | 0.00   |
| 90-150  | 0.00    | N.A.  | 0.00   |
| 90-180  | 0.00    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 9046.78 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 228.89  |
| 10-20   | 722.81  |
| 20-30   | 1209.72 |
| 30-40   | 1511.09 |
| 40-50   | 1580.64 |
| 50-60   | 1493.37 |
| 60-70   | 1289.07 |
| 70-80   | 740.63  |
| 80-90   | 270.57  |
| 90-100  | 0.00    |
| 100-110 | 0.00    |
| 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 : RWG-4-L90-835-S-DIM-UNV\_.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   |
| 0  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 108 | 103 | 98  | 94  | 105 | 100 | 96  | 92  | 96  | 92  | 89  | 92  | 89  | 87  | 88  | 86  | 84  | 82  |
| 2  | 97  | 89  | 81  | 75  | 95  | 87  | 80  | 74  | 83  | 77  | 72  | 80  | 75  | 71  | 77  | 73  | 69  | 67  |
| 3  | 88  | 77  | 68  | 62  | 86  | 76  | 68  | 61  | 72  | 66  | 60  | 70  | 64  | 59  | 67  | 62  | 58  | 56  |
| 4  | 81  | 68  | 59  | 52  | 78  | 67  | 58  | 51  | 64  | 56  | 50  | 62  | 55  | 50  | 59  | 54  | 49  | 47  |
| 5  | 74  | 60  | 51  | 44  | 72  | 59  | 50  | 44  | 57  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 42  | 40  |
| 6  | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 42  | 37  | 35  |
| 7  | 63  | 49  | 40  | 33  | 61  | 48  | 39  | 33  | 46  | 39  | 33  | 45  | 38  | 33  | 44  | 37  | 32  | 30  |
| 8  | 58  | 44  | 36  | 30  | 57  | 44  | 35  | 29  | 42  | 35  | 29  | 41  | 34  | 29  | 40  | 34  | 29  | 27  |
| 9  | 54  | 41  | 32  | 26  | 53  | 40  | 32  | 26  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 24  |
| 10 | 51  | 37  | 29  | 24  | 50  | 37  | 29  | 24  | 36  | 29  | 24  | 35  | 28  | 23  | 34  | 28  | 23  | 22  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RWG-4-L90-835-S-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls          | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity   | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

Room Size UGR Viewed Crosswise

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 26.2 | 27.9 | 26.6 | 28.2 | 28.5 | 19.7 | 21.4 | 20.1 | 21.8 | 22.1 |
|      | 3H   | 29.2 | 30.7 | 29.6 | 31.0 | 31.4 | 21.0 | 22.6 | 21.4 | 22.9 | 23.3 |
|      | 4H   | 29.7 | 31.2 | 30.1 | 31.5 | 31.9 | 21.5 | 22.9 | 21.9 | 23.3 | 23.7 |
|      | 6H   | 30.2 | 31.6 | 30.7 | 32.0 | 32.4 | 21.8 | 23.2 | 22.2 | 23.6 | 23.9 |
|      | 8H   | 30.7 | 32.0 | 31.1 | 32.4 | 32.7 | 21.9 | 23.2 | 22.4 | 23.6 | 24.0 |
|      | 12H  | 31.0 | 32.3 | 31.5 | 32.7 | 33.1 | 22.0 | 23.3 | 22.5 | 23.7 | 24.1 |

UGR Viewed Endwise

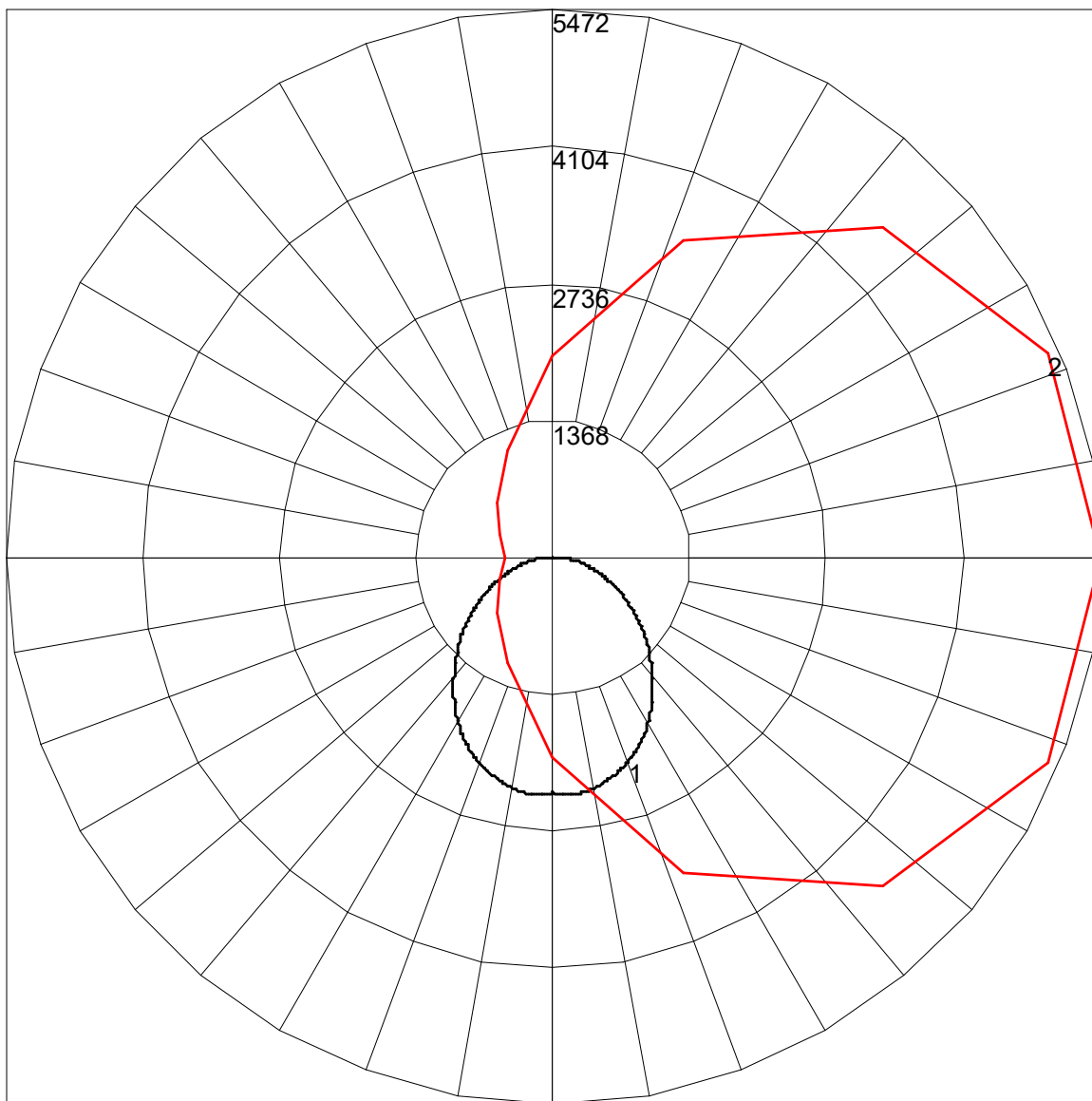
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 26.7 | 28.1 | 27.0 | 28.5 | 28.8 | 21.3 | 22.7 | 21.7 | 23.1 | 23.4 |
|    | 3H  | 29.8 | 31.1 | 30.2 | 31.5 | 31.9 | 23.0 | 24.2 | 23.4 | 24.6 | 25.0 |
|    | 4H  | 30.5 | 31.6 | 30.9 | 32.0 | 32.4 | 23.6 | 24.7 | 24.0 | 25.1 | 25.6 |
|    | 6H  | 31.2 | 32.2 | 31.6 | 32.6 | 33.1 | 24.0 | 25.0 | 24.5 | 25.5 | 25.9 |
|    | 8H  | 31.7 | 32.6 | 32.2 | 33.1 | 33.5 | 24.2 | 25.1 | 24.6 | 25.5 | 26.0 |
|    | 12H | 32.2 | 33.0 | 32.7 | 33.5 | 34.0 | 24.3 | 25.1 | 24.7 | 25.6 | 26.0 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 30.7 | 31.6 | 31.1 | 32.0 | 32.5 | 24.5 | 25.4 | 25.0 | 25.9 | 26.3 |
|    | 6H  | 31.5 | 32.3 | 32.0 | 32.8 | 33.2 | 25.1 | 25.9 | 25.6 | 26.3 | 26.8 |
|    | 8H  | 32.2 | 32.9 | 32.7 | 33.4 | 33.9 | 25.3 | 26.0 | 25.8 | 26.5 | 27.0 |
|    | 12H | 32.9 | 33.5 | 33.4 | 34.0 | 34.5 | 25.4 | 26.0 | 25.9 | 26.5 | 27.1 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 30.7 | 31.5 | 31.2 | 32.0 | 32.4 | 24.7 | 25.5 | 25.1 | 26.0 | 26.4 |
|     | 6H | 31.6 | 32.2 | 32.1 | 32.7 | 33.2 | 25.3 | 26.0 | 25.8 | 26.5 | 27.0 |
|     | 8H | 32.3 | 32.9 | 32.8 | 33.4 | 33.9 | 25.6 | 26.2 | 26.1 | 26.7 | 27.2 |

Maximum UGR = 34.5

POLAR GRAPH



Maximum Candela = 5472.061 Located At Horizontal Angle = 0, Vertical Angle = 26.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (26.5) (Through Max. Cd.)