



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDI5-8-L27-835-DMA-10U-90D-(L22)-DIM-UNV.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 12731921.06  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 06-28-2023  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836  
 [LUMINAIRE] 8' SUSPENDED LINEAR LED LUMINAIRE  
 [MORE] WITH FROSTED ACRYLIC LENS  
 [LUMCAT] SDI5-8-L27-835-DMA-10U-90D-(L22)-DIM-UNV  
 [LAMPCAT] 80 CRI, 3500K CCT  
 [ \_SEARCH\_SOURCETYPE] LED  
 [ \_SEARCH\_APPLICATION] Indoor, Architectural, Classroom, Direct-Indirect  
 [ \_SEARCH\_MOUNTING] Suspended

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 17821               |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 149                 |
| Total Luminaire Watts           | 119.8               |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.22                |
| Spacing Criterion (90-270)      | 1.22                |
| Spacing Criterion (Diagonal)    | 1.34                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 8.00 ft             |
| Luminous Width (90-270)         | 0.40 ft             |
| Luminous Height                 | 0.15 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 17892            | 14059             | 12928             |
| 55                  | 16771            | 12112             | 10812             |
| 65                  | 15171            | 9703              | 8386              |
| 75                  | 12474            | 6439              | 5319              |
| 85                  | 6832             | 2044              | 1571              |

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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> |
|------|------------|-------------|-------------|-------------|-------------|
| 0.0  | 6074.171   | 6074.171    | 6074.171    | 6074.171    | 6074.171    |
| 0.5  | 6064.587   | 6101.006    | 6055.004    | 6066.504    | 6078.005    |
| 1.0  | 6062.671   | 6099.089    | 6055.004    | 6064.587    | 6078.005    |
| 1.5  | 6060.754   | 6099.089    | 6053.087    | 6064.587    | 6076.088    |
| 2.0  | 6058.837   | 6097.172    | 6051.170    | 6060.754    | 6074.171    |
| 2.5  | 6056.920   | 6093.339    | 6047.337    | 6058.837    | 6070.338    |
| 3.0  | 6051.170   | 6089.505    | 6043.503    | 6056.920    | 6066.504    |
| 3.5  | 6049.253   | 6083.755    | 6037.753    | 6053.087    | 6060.754    |
| 4.0  | 6045.420   | 6078.005    | 6032.003    | 6049.253    | 6055.004    |
| 4.5  | 6039.670   | 6072.254    | 6026.252    | 6041.586    | 6049.253    |
| 5.0  | 6033.919   | 6066.504    | 6020.502    | 6033.919    | 6041.586    |
| 5.5  | 6026.252   | 6058.837    | 6012.835    | 6026.252    | 6033.919    |
| 6.0  | 6018.585   | 6051.170    | 6005.168    | 6018.585    | 6028.169    |
| 6.5  | 6010.919   | 6043.503    | 5997.501    | 6009.002    | 6018.585    |
| 7.0  | 6001.335   | 6033.919    | 5987.918    | 5999.418    | 6010.919    |
| 7.5  | 5991.751   | 6024.336    | 5980.251    | 5989.834    | 6001.335    |
| 8.0  | 5980.251   | 6014.752    | 5968.750    | 5978.334    | 5989.834    |
| 8.5  | 5968.750   | 6003.252    | 5959.166    | 5966.833    | 5976.417    |
| 9.0  | 5955.333   | 5991.751    | 5947.666    | 5955.333    | 5963.000    |
| 9.5  | 5943.832   | 5980.251    | 5936.165    | 5943.832    | 5949.583    |
| 10.0 | 5932.332   | 5966.833    | 5922.748    | 5928.498    | 5936.165    |
| 10.5 | 5920.831   | 5953.416    | 5909.331    | 5915.081    | 5920.831    |
| 11.0 | 5907.414   | 5939.999    | 5893.997    | 5899.747    | 5903.581    |
| 11.5 | 5890.163   | 5926.582    | 5878.663    | 5884.413    | 5888.247    |
| 12.0 | 5872.913   | 5911.248    | 5863.329    | 5867.162    | 5872.913    |
| 12.5 | 5857.579   | 5893.997    | 5847.995    | 5849.912    | 5857.579    |
| 13.0 | 5842.245   | 5878.663    | 5830.744    | 5834.578    | 5840.328    |
| 13.5 | 5824.994   | 5859.495    | 5813.494    | 5815.410    | 5819.244    |
| 14.0 | 5807.743   | 5842.245    | 5794.326    | 5798.160    | 5801.993    |
| 14.5 | 5790.493   | 5823.077    | 5775.159    | 5778.992    | 5784.742    |
| 15.0 | 5771.325   | 5803.910    | 5755.991    | 5759.825    | 5761.741    |
| 15.5 | 5752.158   | 5786.659    | 5734.907    | 5738.740    | 5740.657    |
| 16.0 | 5731.073   | 5767.492    | 5715.739    | 5717.656    | 5719.573    |
| 16.5 | 5709.989   | 5746.407    | 5692.739    | 5694.655    | 5698.489    |
| 17.0 | 5688.905   | 5723.406    | 5669.738    | 5673.571    | 5677.405    |
| 17.5 | 5665.904   | 5700.406    | 5646.737    | 5650.570    | 5654.404    |
| 18.0 | 5644.820   | 5679.321    | 5625.652    | 5627.569    | 5631.403    |
| 18.5 | 5621.819   | 5654.404    | 5600.735    | 5602.651    | 5604.568    |
| 19.0 | 5596.901   | 5631.403    | 5577.734    | 5577.734    | 5579.650    |
| 19.5 | 5571.983   | 5606.485    | 5554.733    | 5554.733    | 5554.733    |
| 20.0 | 5547.066   | 5581.567    | 5529.815    | 5525.982    | 5529.815    |
| 20.5 | 5522.148   | 5556.649    | 5502.981    | 5499.147    | 5502.981    |
| 21.0 | 5499.147   | 5531.732    | 5476.146    | 5472.313    | 5476.146    |
| 21.5 | 5474.229   | 5504.897    | 5451.228    | 5445.478    | 5449.312    |
| 22.0 | 5447.395   | 5478.063    | 5424.394    | 5416.727    | 5420.560    |
| 22.5 | 5418.644   | 5451.228    | 5397.559    | 5389.892    | 5389.892    |
| 23.0 | 5391.809   | 5422.477    | 5368.808    | 5361.141    | 5361.141    |
| 23.5 | 5364.975   | 5393.726    | 5340.057    | 5332.390    | 5328.557    |
| 24.0 | 5336.224   | 5364.975    | 5309.389    | 5303.639    | 5297.889    |
| 24.5 | 5309.389   | 5336.224    | 5280.638    | 5272.971    | 5265.304    |
| 25.0 | 5280.638   | 5305.556    | 5249.970    | 5242.303    | 5234.636    |
| 25.5 | 5249.970   | 5276.804    | 5221.219    | 5211.635    | 5202.051    |
| 26.0 | 5219.302   | 5246.136    | 5190.551    | 5179.050    | 5171.383    |
| 26.5 | 5190.551   | 5215.469    | 5159.883    | 5146.466    | 5138.799    |

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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 27.0 | 5157.966 | 5182.884 | 5125.381 | 5113.881 | 5106.214 |
| 27.5 | 5125.381 | 5150.299 | 5092.797 | 5081.296 | 5073.629 |
| 28.0 | 5092.797 | 5117.714 | 5060.212 | 5046.795 | 5041.045 |
| 28.5 | 5060.212 | 5083.213 | 5025.711 | 5012.293 | 5006.543 |
| 29.0 | 5025.711 | 5050.628 | 4991.209 | 4977.792 | 4972.042 |
| 29.5 | 4993.126 | 5016.127 | 4958.624 | 4943.290 | 4937.540 |
| 30.0 | 4958.624 | 4983.542 | 4924.123 | 4906.872 | 4901.122 |
| 30.5 | 4922.206 | 4949.041 | 4887.705 | 4872.371 | 4864.704 |
| 31.0 | 4887.705 | 4914.539 | 4853.203 | 4835.953 | 4828.286 |
| 31.5 | 4853.203 | 4878.121 | 4816.785 | 4801.451 | 4791.867 |
| 32.0 | 4816.785 | 4841.703 | 4780.367 | 4763.116 | 4755.449 |
| 32.5 | 4782.284 | 4805.285 | 4743.949 | 4726.698 | 4717.114 |
| 33.0 | 4745.866 | 4768.866 | 4705.614 | 4688.363 | 4680.696 |
| 33.5 | 4709.447 | 4732.448 | 4667.279 | 4650.028 | 4642.361 |
| 34.0 | 4671.112 | 4694.113 | 4630.861 | 4611.693 | 4604.026 |
| 34.5 | 4636.611 | 4655.778 | 4592.526 | 4573.358 | 4561.858 |
| 35.0 | 4598.276 | 4617.443 | 4554.191 | 4535.023 | 4521.606 |
| 35.5 | 4561.858 | 4579.109 | 4515.856 | 4494.772 | 4479.438 |
| 36.0 | 4525.440 | 4540.774 | 4477.521 | 4454.520 | 4439.186 |
| 36.5 | 4487.105 | 4502.439 | 4439.186 | 4416.185 | 4398.934 |
| 37.0 | 4448.770 | 4464.104 | 4398.934 | 4374.017 | 4356.766 |
| 37.5 | 4408.518 | 4423.852 | 4360.599 | 4333.765 | 4314.597 |
| 38.0 | 4368.266 | 4383.600 | 4318.431 | 4291.596 | 4272.429 |
| 38.5 | 4329.931 | 4343.349 | 4278.179 | 4247.511 | 4230.261 |
| 39.0 | 4289.680 | 4303.097 | 4236.011 | 4207.260 | 4188.092 |
| 39.5 | 4249.428 | 4262.845 | 4195.759 | 4163.174 | 4145.924 |
| 40.0 | 4209.176 | 4222.594 | 4153.591 | 4121.006 | 4103.755 |
| 40.5 | 4168.925 | 4182.342 | 4111.422 | 4078.838 | 4061.587 |
| 41.0 | 4126.756 | 4140.173 | 4071.171 | 4036.669 | 4019.418 |
| 41.5 | 4084.588 | 4096.088 | 4029.002 | 3994.501 | 3979.167 |
| 42.0 | 4044.336 | 4055.837 | 3984.917 | 3952.332 | 3936.998 |
| 42.5 | 4004.084 | 4011.751 | 3942.749 | 3910.164 | 3896.747 |
| 43.0 | 3961.916 | 3969.583 | 3900.580 | 3869.912 | 3852.661 |
| 43.5 | 3919.748 | 3927.415 | 3858.412 | 3825.827 | 3810.493 |
| 44.0 | 3877.579 | 3883.329 | 3814.326 | 3783.659 | 3768.325 |
| 44.5 | 3837.327 | 3841.161 | 3772.158 | 3741.490 | 3726.156 |
| 45.0 | 3795.159 | 3797.076 | 3729.990 | 3699.322 | 3685.904 |
| 45.5 | 3752.991 | 3754.907 | 3687.821 | 3657.153 | 3641.819 |
| 46.0 | 3710.822 | 3708.905 | 3643.736 | 3614.985 | 3599.651 |
| 46.5 | 3666.737 | 3664.820 | 3601.568 | 3570.900 | 3555.566 |
| 47.0 | 3624.569 | 3622.652 | 3557.482 | 3528.731 | 3511.480 |
| 47.5 | 3580.483 | 3578.567 | 3515.314 | 3484.646 | 3465.479 |
| 48.0 | 3536.398 | 3534.481 | 3471.229 | 3440.561 | 3421.393 |
| 48.5 | 3492.313 | 3492.313 | 3427.144 | 3396.476 | 3377.308 |
| 49.0 | 3448.228 | 3446.311 | 3383.058 | 3352.390 | 3333.223 |
| 49.5 | 3404.143 | 3402.226 | 3338.973 | 3308.305 | 3289.138 |
| 50.0 | 3360.057 | 3358.141 | 3294.888 | 3264.220 | 3243.136 |
| 50.5 | 3314.056 | 3314.056 | 3252.720 | 3218.218 | 3197.134 |
| 51.0 | 3269.970 | 3269.970 | 3206.718 | 3172.216 | 3153.049 |
| 51.5 | 3223.968 | 3225.885 | 3162.633 | 3128.131 | 3107.047 |
| 52.0 | 3179.883 | 3179.883 | 3118.547 | 3082.129 | 3061.045 |
| 52.5 | 3133.881 | 3135.798 | 3072.545 | 3038.044 | 3015.043 |
| 53.0 | 3089.796 | 3089.796 | 3028.460 | 2992.042 | 2970.958 |
| 53.5 | 3043.794 | 3043.794 | 2982.458 | 2946.040 | 2924.956 |
| 54.0 | 2997.792 | 2999.709 | 2936.456 | 2901.955 | 2880.871 |
| 54.5 | 2953.707 | 2953.707 | 2892.371 | 2855.953 | 2834.869 |

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|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 55.0 | 2907.705 | 2907.705 | 2846.369 | 2809.951 | 2788.867 |
| 55.5 | 2861.703 | 2861.703 | 2800.367 | 2763.949 | 2742.865 |
| 56.0 | 2815.701 | 2813.785 | 2754.365 | 2717.947 | 2698.780 |
| 56.5 | 2769.699 | 2767.783 | 2708.363 | 2673.862 | 2652.778 |
| 57.0 | 2723.697 | 2719.864 | 2660.445 | 2627.860 | 2608.693 |
| 57.5 | 2675.779 | 2673.862 | 2614.443 | 2581.858 | 2560.774 |
| 58.0 | 2629.777 | 2625.943 | 2568.441 | 2535.856 | 2514.772 |
| 58.5 | 2583.775 | 2578.025 | 2520.522 | 2489.854 | 2468.770 |
| 59.0 | 2535.856 | 2530.106 | 2474.520 | 2443.852 | 2424.685 |
| 59.5 | 2487.938 | 2482.187 | 2428.518 | 2397.850 | 2378.683 |
| 60.0 | 2440.019 | 2434.269 | 2382.516 | 2351.849 | 2332.681 |
| 60.5 | 2392.100 | 2388.267 | 2334.598 | 2305.847 | 2284.762 |
| 61.0 | 2344.182 | 2340.348 | 2288.596 | 2257.928 | 2238.760 |
| 61.5 | 2296.263 | 2292.429 | 2242.594 | 2211.926 | 2192.759 |
| 62.0 | 2250.261 | 2244.511 | 2196.592 | 2165.924 | 2146.757 |
| 62.5 | 2202.342 | 2196.592 | 2148.673 | 2119.922 | 2100.755 |
| 63.0 | 2154.424 | 2148.673 | 2102.671 | 2073.920 | 2054.753 |
| 63.5 | 2104.588 | 2102.671 | 2056.670 | 2027.918 | 2008.751 |
| 64.0 | 2056.670 | 2054.753 | 2010.668 | 1981.916 | 1962.749 |
| 64.5 | 2008.751 | 2006.834 | 1962.749 | 1933.998 | 1916.172 |
| 65.0 | 1962.749 | 1956.999 | 1916.747 | 1888.762 | 1869.595 |
| 65.5 | 1914.447 | 1910.230 | 1869.978 | 1843.144 | 1824.551 |
| 66.0 | 1867.295 | 1862.695 | 1823.210 | 1796.567 | 1778.166 |
| 66.5 | 1818.801 | 1814.776 | 1776.249 | 1751.332 | 1732.739 |
| 67.0 | 1771.649 | 1767.432 | 1729.672 | 1704.755 | 1687.121 |
| 67.5 | 1724.689 | 1719.130 | 1682.712 | 1658.369 | 1641.119 |
| 68.0 | 1675.620 | 1671.403 | 1635.944 | 1612.368 | 1596.075 |
| 68.5 | 1628.468 | 1623.101 | 1588.600 | 1567.132 | 1553.907 |
| 69.0 | 1580.741 | 1575.183 | 1543.748 | 1523.814 | 1508.097 |
| 69.5 | 1534.356 | 1529.181 | 1498.513 | 1477.620 | 1461.520 |
| 70.0 | 1489.121 | 1482.795 | 1451.552 | 1431.427 | 1415.518 |
| 70.5 | 1440.627 | 1435.452 | 1404.401 | 1385.041 | 1370.474 |
| 71.0 | 1395.008 | 1389.833 | 1359.740 | 1341.915 | 1326.772 |
| 71.5 | 1348.048 | 1342.873 | 1314.505 | 1296.296 | 1280.770 |
| 72.0 | 1300.704 | 1294.763 | 1268.311 | 1250.102 | 1234.960 |
| 72.5 | 1253.361 | 1247.036 | 1221.735 | 1204.100 | 1188.958 |
| 73.0 | 1205.634 | 1199.692 | 1175.733 | 1158.674 | 1143.340 |
| 73.5 | 1158.290 | 1152.540 | 1129.539 | 1112.863 | 1097.721 |
| 74.0 | 1110.372 | 1105.771 | 1083.345 | 1067.053 | 1052.677 |
| 74.5 | 1063.028 | 1058.811 | 1037.727 | 1022.009 | 1007.826 |
| 75.0 | 1015.876 | 1012.042 | 992.300  | 977.349  | 963.549  |
| 75.5 | 970.257  | 966.040  | 947.256  | 932.881  | 919.847  |
| 76.0 | 924.830  | 920.422  | 902.596  | 888.604  | 875.953  |
| 76.5 | 879.404  | 875.187  | 858.319  | 844.710  | 832.443  |
| 77.0 | 833.977  | 830.526  | 814.426  | 801.200  | 789.508  |
| 77.5 | 788.550  | 786.250  | 770.724  | 758.265  | 746.956  |
| 78.0 | 744.465  | 742.548  | 727.789  | 716.097  | 705.363  |
| 78.5 | 700.954  | 699.038  | 685.429  | 674.503  | 664.153  |
| 79.0 | 658.403  | 656.294  | 643.644  | 633.677  | 623.901  |
| 79.5 | 616.618  | 614.317  | 602.434  | 593.233  | 583.841  |
| 80.0 | 575.024  | 572.724  | 562.182  | 553.748  | 544.548  |
| 80.5 | 534.006  | 532.089  | 522.697  | 514.647  | 506.405  |
| 81.0 | 493.754  | 492.221  | 484.170  | 477.078  | 468.836  |
| 81.5 | 454.461  | 453.119  | 446.794  | 440.277  | 432.610  |
| 82.0 | 416.317  | 415.359  | 410.184  | 404.434  | 397.150  |
| 82.5 | 379.324  | 378.749  | 374.724  | 369.740  | 362.649  |

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|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 83.0  | 343.098 | 343.289 | 340.414 | 336.006 | 329.297 |
| 83.5  | 308.213 | 308.788 | 307.255 | 303.613 | 297.287 |
| 84.0  | 274.862 | 276.012 | 275.628 | 272.753 | 267.003 |
| 84.5  | 242.852 | 244.577 | 245.344 | 242.852 | 237.868 |
| 85.0  | 211.992 | 214.676 | 216.592 | 214.867 | 210.267 |
| 85.5  | 182.666 | 186.499 | 189.375 | 188.225 | 184.008 |
| 86.0  | 154.873 | 159.282 | 163.307 | 163.115 | 159.473 |
| 86.5  | 128.422 | 133.789 | 138.772 | 139.348 | 135.897 |
| 87.0  | 103.696 | 109.638 | 115.772 | 117.113 | 114.238 |
| 87.5  | 80.695  | 86.829  | 93.729  | 95.837  | 93.154  |
| 88.0  | 59.419  | 65.744  | 72.453  | 75.136  | 72.070  |
| 88.5  | 39.485  | 45.810  | 51.752  | 53.669  | 50.027  |
| 89.0  | 21.276  | 27.409  | 32.585  | 36.035  | 34.693  |
| 89.5  | 7.859   | 13.801  | 20.126  | 23.001  | 21.851  |
| 90.0  | 2.300   | 4.409   | 7.092   | 7.859   | 6.709   |
| 90.5  | 8.434   | 12.267  | 10.925  | 8.242   | 4.409   |
| 91.0  | 9.009   | 11.884  | 10.734  | 7.859   | 4.600   |
| 91.5  | 9.967   | 12.842  | 11.500  | 8.625   | 5.175   |
| 92.0  | 10.925  | 14.184  | 12.459  | 9.392   | 6.134   |
| 92.5  | 12.076  | 15.526  | 13.801  | 10.734  | 7.284   |
| 93.0  | 13.609  | 16.867  | 15.526  | 12.459  | 9.009   |
| 93.5  | 15.526  | 18.592  | 17.442  | 14.376  | 11.117  |
| 94.0  | 17.251  | 20.509  | 19.551  | 16.484  | 13.417  |
| 94.5  | 19.359  | 22.618  | 21.659  | 18.976  | 15.909  |
| 95.0  | 21.851  | 25.109  | 24.151  | 21.468  | 18.592  |
| 95.5  | 24.918  | 27.985  | 27.026  | 24.151  | 21.468  |
| 96.0  | 28.176  | 31.051  | 29.710  | 27.026  | 24.343  |
| 96.5  | 31.435  | 34.310  | 32.776  | 30.093  | 27.218  |
| 97.0  | 35.076  | 37.760  | 35.843  | 33.160  | 30.476  |
| 97.5  | 38.910  | 41.210  | 39.102  | 36.610  | 33.926  |
| 98.0  | 42.935  | 45.044  | 42.552  | 40.060  | 37.377  |
| 98.5  | 46.960  | 48.877  | 46.194  | 43.510  | 41.018  |
| 99.0  | 51.177  | 52.711  | 49.835  | 47.152  | 44.660  |
| 99.5  | 55.586  | 56.736  | 53.669  | 50.985  | 48.494  |
| 100.0 | 59.994  | 60.953  | 57.502  | 54.819  | 52.327  |
| 100.5 | 64.786  | 65.361  | 61.719  | 58.652  | 56.352  |
| 101.0 | 69.386  | 69.578  | 65.744  | 62.678  | 60.378  |
| 101.5 | 74.178  | 74.178  | 69.961  | 66.894  | 64.403  |
| 102.0 | 79.162  | 78.778  | 74.370  | 70.920  | 68.620  |
| 102.5 | 83.954  | 83.378  | 78.778  | 75.136  | 72.836  |
| 103.0 | 88.937  | 88.170  | 83.187  | 79.545  | 77.245  |
| 103.5 | 94.112  | 92.962  | 87.787  | 83.762  | 81.462  |
| 104.0 | 99.096  | 97.946  | 92.196  | 88.362  | 85.870  |
| 104.5 | 104.463 | 102.929 | 96.796  | 92.771  | 90.279  |
| 105.0 | 109.638 | 107.913 | 101.588 | 97.179  | 94.687  |
| 105.5 | 115.005 | 112.896 | 106.188 | 101.779 | 99.287  |
| 106.0 | 120.372 | 118.072 | 110.980 | 106.188 | 103.696 |
| 106.5 | 125.739 | 123.247 | 115.772 | 110.788 | 108.296 |
| 107.0 | 131.105 | 128.422 | 120.563 | 115.388 | 112.896 |
| 107.5 | 136.472 | 133.597 | 125.164 | 119.988 | 117.497 |
| 108.0 | 142.031 | 138.964 | 129.955 | 124.589 | 122.288 |
| 108.5 | 147.398 | 144.139 | 134.747 | 129.380 | 126.889 |
| 109.0 | 152.956 | 149.506 | 139.539 | 133.981 | 131.489 |
| 109.5 | 158.323 | 154.873 | 144.331 | 138.581 | 136.089 |
| 110.0 | 163.882 | 160.432 | 149.123 | 143.373 | 140.881 |
| 110.5 | 169.249 | 165.799 | 153.915 | 147.973 | 145.673 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDI5-8-L27-835-DMA-10U-90D-(L22)-DIM-UNV.IES****CANDELA TABULATION - (Cont.)**

|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 111.0 | 174.616 | 171.166 | 158.707 | 152.765 | 150.273 |
| 111.5 | 179.983 | 176.532 | 163.690 | 157.557 | 155.065 |
| 112.0 | 185.541 | 181.899 | 168.482 | 162.157 | 159.665 |
| 112.5 | 190.908 | 187.458 | 173.274 | 166.949 | 164.457 |
| 113.0 | 196.275 | 192.825 | 178.257 | 171.741 | 169.249 |
| 113.5 | 201.833 | 198.192 | 183.049 | 176.341 | 173.849 |
| 114.0 | 207.200 | 203.559 | 187.841 | 181.133 | 178.449 |
| 114.5 | 212.567 | 208.925 | 192.633 | 185.733 | 183.241 |
| 115.0 | 218.126 | 214.292 | 197.617 | 190.333 | 187.841 |
| 115.5 | 223.301 | 219.659 | 202.408 | 194.933 | 192.633 |
| 116.0 | 228.860 | 225.026 | 207.392 | 199.725 | 197.425 |
| 116.5 | 234.226 | 230.393 | 212.376 | 204.134 | 201.833 |
| 117.0 | 239.593 | 235.952 | 217.359 | 208.925 | 206.434 |
| 117.5 | 244.960 | 241.318 | 222.151 | 213.717 | 210.842 |
| 118.0 | 250.327 | 246.685 | 226.943 | 218.317 | 215.251 |
| 118.5 | 255.694 | 252.052 | 231.926 | 223.301 | 219.851 |
| 119.0 | 261.061 | 257.611 | 236.718 | 227.901 | 224.451 |
| 119.5 | 266.236 | 262.978 | 241.702 | 232.501 | 229.243 |
| 120.0 | 271.603 | 268.345 | 246.685 | 237.293 | 233.843 |
| 120.5 | 276.778 | 273.711 | 251.477 | 242.085 | 238.635 |
| 121.0 | 282.145 | 279.270 | 256.461 | 246.877 | 243.427 |
| 121.5 | 287.320 | 284.637 | 261.444 | 251.669 | 248.027 |
| 122.0 | 292.496 | 290.195 | 266.428 | 256.461 | 252.627 |
| 122.5 | 297.479 | 295.562 | 271.220 | 261.444 | 257.611 |
| 123.0 | 302.654 | 301.121 | 276.203 | 266.044 | 262.403 |
| 123.5 | 307.638 | 306.488 | 281.187 | 270.645 | 267.386 |
| 124.0 | 312.430 | 311.663 | 286.170 | 275.245 | 272.178 |
| 124.5 | 317.222 | 317.030 | 291.154 | 279.653 | 277.162 |
| 125.0 | 322.205 | 322.205 | 296.137 | 284.254 | 281.953 |
| 125.5 | 326.997 | 327.380 | 301.121 | 288.854 | 286.554 |
| 126.0 | 331.981 | 332.556 | 305.913 | 293.646 | 290.962 |
| 126.5 | 336.964 | 337.922 | 310.896 | 298.054 | 295.562 |
| 127.0 | 341.564 | 343.098 | 315.880 | 302.463 | 299.779 |
| 127.5 | 346.356 | 348.273 | 320.863 | 307.063 | 304.188 |
| 128.0 | 350.956 | 353.448 | 325.847 | 311.471 | 308.596 |
| 128.5 | 355.557 | 358.623 | 330.831 | 316.072 | 313.196 |
| 129.0 | 360.157 | 363.799 | 335.814 | 320.672 | 317.605 |
| 129.5 | 364.565 | 368.974 | 340.606 | 325.080 | 321.822 |
| 130.0 | 369.165 | 374.149 | 345.589 | 329.680 | 326.422 |
| 130.5 | 373.574 | 379.324 | 350.381 | 334.281 | 330.831 |
| 131.0 | 377.791 | 384.308 | 355.173 | 338.881 | 335.239 |
| 131.5 | 382.199 | 389.483 | 360.157 | 343.481 | 339.648 |
| 132.0 | 386.608 | 394.275 | 364.949 | 347.890 | 344.056 |
| 132.5 | 390.825 | 399.450 | 369.932 | 352.490 | 348.656 |
| 133.0 | 394.850 | 404.242 | 374.724 | 357.282 | 353.256 |
| 133.5 | 398.683 | 409.225 | 379.708 | 361.690 | 358.048 |
| 134.0 | 402.900 | 414.017 | 384.691 | 366.482 | 362.457 |
| 134.5 | 406.925 | 419.001 | 389.675 | 371.082 | 367.057 |
| 135.0 | 410.951 | 423.793 | 394.658 | 375.682 | 371.466 |
| 135.5 | 414.784 | 428.585 | 399.642 | 380.474 | 376.066 |
| 136.0 | 418.618 | 433.185 | 404.817 | 385.266 | 380.474 |
| 136.5 | 422.259 | 437.785 | 409.801 | 389.675 | 385.074 |
| 137.0 | 425.901 | 442.385 | 414.784 | 394.467 | 389.483 |
| 137.5 | 429.543 | 446.985 | 420.151 | 399.258 | 394.083 |
| 138.0 | 433.185 | 451.394 | 425.326 | 404.050 | 398.683 |
| 138.5 | 436.635 | 455.611 | 430.310 | 408.842 | 403.475 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDI5-8-L27-835-DMA-10U-90D-(L22)-DIM-UNV.IES****CANDELA TABULATION - (Cont.)**

|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 139.0 | 440.277 | 459.828 | 435.485 | 413.634 | 408.075 |
| 139.5 | 443.919 | 463.853 | 440.468 | 418.426 | 412.676 |
| 140.0 | 447.369 | 468.070 | 445.644 | 423.218 | 417.467 |
| 140.5 | 451.011 | 472.095 | 450.819 | 428.201 | 422.068 |
| 141.0 | 454.461 | 475.928 | 455.802 | 433.185 | 426.476 |
| 141.5 | 457.911 | 479.953 | 460.786 | 438.168 | 431.268 |
| 142.0 | 460.978 | 483.787 | 465.770 | 443.152 | 436.060 |
| 142.5 | 464.236 | 487.620 | 470.753 | 448.135 | 440.852 |
| 143.0 | 467.495 | 491.262 | 475.737 | 453.119 | 445.644 |
| 143.5 | 470.561 | 494.712 | 480.528 | 458.294 | 450.627 |
| 144.0 | 473.628 | 498.354 | 485.320 | 463.086 | 455.611 |
| 144.5 | 476.695 | 501.804 | 490.112 | 468.261 | 460.786 |
| 145.0 | 479.570 | 505.063 | 494.712 | 473.245 | 465.770 |
| 145.5 | 482.445 | 508.321 | 499.121 | 478.420 | 470.753 |
| 146.0 | 485.129 | 511.388 | 503.721 | 483.595 | 475.928 |
| 146.5 | 487.812 | 514.455 | 507.938 | 488.387 | 480.912 |
| 147.0 | 490.496 | 517.713 | 512.346 | 493.562 | 485.895 |
| 147.5 | 493.371 | 520.972 | 516.563 | 498.354 | 491.071 |
| 148.0 | 496.054 | 524.230 | 520.588 | 503.338 | 496.054 |
| 148.5 | 498.738 | 527.297 | 524.614 | 508.130 | 501.038 |
| 149.0 | 501.229 | 530.172 | 528.447 | 512.921 | 505.830 |
| 149.5 | 503.529 | 533.047 | 532.472 | 517.522 | 510.621 |
| 150.0 | 506.021 | 535.347 | 536.306 | 521.930 | 515.413 |
| 150.5 | 508.513 | 538.031 | 540.331 | 526.530 | 520.205 |
| 151.0 | 511.005 | 540.331 | 544.164 | 530.939 | 524.614 |
| 151.5 | 513.305 | 542.631 | 547.806 | 535.156 | 529.022 |
| 152.0 | 515.413 | 545.123 | 551.256 | 539.373 | 533.431 |
| 152.5 | 517.522 | 547.806 | 554.898 | 543.398 | 537.456 |
| 153.0 | 519.822 | 550.490 | 558.348 | 547.231 | 541.481 |
| 153.5 | 521.930 | 552.790 | 561.799 | 551.256 | 545.315 |
| 154.0 | 524.039 | 555.090 | 565.057 | 555.090 | 549.340 |
| 154.5 | 525.955 | 557.390 | 568.315 | 558.923 | 552.982 |
| 155.0 | 527.872 | 559.307 | 570.999 | 562.374 | 556.623 |
| 155.5 | 529.597 | 560.840 | 573.682 | 565.824 | 560.073 |
| 156.0 | 531.706 | 562.565 | 576.366 | 569.274 | 563.715 |
| 156.5 | 533.431 | 564.290 | 578.858 | 572.532 | 566.974 |
| 157.0 | 535.347 | 565.824 | 581.349 | 575.982 | 570.424 |
| 157.5 | 537.073 | 567.549 | 583.649 | 579.241 | 573.682 |
| 158.0 | 538.606 | 568.699 | 585.758 | 582.499 | 576.749 |
| 158.5 | 540.331 | 569.849 | 587.675 | 585.566 | 579.624 |
| 159.0 | 541.864 | 570.999 | 589.400 | 588.633 | 582.691 |
| 159.5 | 543.206 | 571.957 | 590.933 | 591.508 | 585.758 |
| 160.0 | 544.739 | 573.107 | 592.275 | 594.192 | 588.633 |
| 160.5 | 546.081 | 574.066 | 593.808 | 596.492 | 591.508 |
| 161.0 | 547.231 | 574.832 | 594.958 | 598.983 | 594.192 |
| 161.5 | 548.573 | 575.791 | 596.108 | 601.284 | 596.683 |
| 162.0 | 549.723 | 576.557 | 596.875 | 603.392 | 599.175 |
| 162.5 | 550.873 | 577.133 | 597.258 | 605.500 | 601.475 |
| 163.0 | 552.023 | 577.708 | 597.642 | 607.225 | 603.775 |
| 163.5 | 553.173 | 578.283 | 597.833 | 608.567 | 605.884 |
| 164.0 | 554.132 | 578.474 | 598.217 | 609.717 | 607.992 |
| 164.5 | 555.282 | 578.858 | 598.408 | 610.867 | 609.717 |
| 165.0 | 556.240 | 579.049 | 598.600 | 611.826 | 610.676 |
| 165.5 | 557.007 | 579.241 | 598.792 | 612.592 | 611.634 |
| 166.0 | 557.965 | 579.241 | 598.792 | 612.976 | 612.592 |
| 166.5 | 558.732 | 579.241 | 598.217 | 612.784 | 613.742 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDI5-8-L27-835-DMA-10U-90D-(L22)-DIM-UNV.IES****CANDELA TABULATION - (Cont.)**

|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 167.0 | 559.498 | 579.241 | 597.833 | 612.401 | 614.509 |
| 167.5 | 560.265 | 579.241 | 597.450 | 612.209 | 614.509 |
| 168.0 | 561.032 | 579.049 | 596.875 | 612.209 | 614.126 |
| 168.5 | 561.799 | 578.666 | 596.108 | 611.826 | 614.317 |
| 169.0 | 562.182 | 578.283 | 595.725 | 611.251 | 614.701 |
| 169.5 | 562.949 | 577.899 | 594.958 | 610.101 | 614.509 |
| 170.0 | 563.524 | 577.324 | 594.000 | 608.951 | 614.126 |
| 170.5 | 564.099 | 576.941 | 593.233 | 607.609 | 613.359 |
| 171.0 | 564.674 | 576.557 | 592.083 | 606.459 | 612.017 |
| 171.5 | 565.057 | 576.174 | 590.933 | 605.117 | 611.059 |
| 172.0 | 565.440 | 575.599 | 589.591 | 603.775 | 610.101 |
| 172.5 | 565.824 | 575.407 | 588.058 | 602.050 | 608.567 |
| 173.0 | 566.207 | 575.024 | 586.333 | 600.325 | 606.650 |
| 173.5 | 566.590 | 574.641 | 584.608 | 598.025 | 604.159 |
| 174.0 | 566.974 | 574.257 | 582.883 | 595.725 | 601.092 |
| 174.5 | 567.357 | 573.874 | 581.158 | 593.042 | 597.642 |
| 175.0 | 567.549 | 573.682 | 579.624 | 590.166 | 593.617 |
| 175.5 | 567.932 | 573.299 | 578.091 | 587.483 | 589.208 |
| 176.0 | 568.124 | 573.107 | 576.366 | 584.800 | 584.800 |
| 176.5 | 568.507 | 572.724 | 575.024 | 582.308 | 580.583 |
| 177.0 | 568.699 | 572.724 | 573.874 | 580.008 | 577.133 |
| 177.5 | 568.699 | 572.532 | 572.916 | 578.091 | 574.449 |
| 178.0 | 568.891 | 572.341 | 572.149 | 576.366 | 572.341 |
| 178.5 | 568.891 | 572.149 | 571.574 | 575.024 | 570.616 |
| 179.0 | 568.891 | 572.149 | 571.191 | 574.066 | 569.657 |
| 179.5 | 568.891 | 572.149 | 570.807 | 573.299 | 569.274 |
| 180.0 | 571.191 | 571.191 | 571.191 | 571.191 | 571.191 |



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDI5-8-L27-835-DMA-10U-90D-(L22)-DIM-UNV.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 2200.39  | N.A.  | 12.30  |
| 0-30    | 4624.48  | N.A.  | 25.90  |
| 0-40    | 7479.76  | N.A.  | 42.00  |
| 0-60    | 12914.97 | N.A.  | 72.50  |
| 0-80    | 15867.34 | N.A.  | 89.00  |
| 0-90    | 16125.65 | N.A.  | 90.50  |
| 10-90   | 15552.35 | N.A.  | 87.30  |
| 20-40   | 5279.37  | N.A.  | 29.60  |
| 20-50   | 8165.37  | N.A.  | 45.80  |
| 40-70   | 7335.1   | N.A.  | 41.20  |
| 60-80   | 2952.37  | N.A.  | 16.60  |
| 70-80   | 1052.49  | N.A.  | 5.90   |
| 80-90   | 258.31   | N.A.  | 1.40   |
| 90-110  | 137.00   | N.A.  | 0.80   |
| 90-120  | 336.13   | N.A.  | 1.90   |
| 90-130  | 605.14   | N.A.  | 3.40   |
| 90-150  | 1214.92  | N.A.  | 6.80   |
| 90-180  | 1695.2   | N.A.  | 9.50   |
| 110-180 | 1558.2   | N.A.  | 8.70   |
| 0-180   | 17820.85 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 573.30  |
| 10-20   | 1627.09 |
| 20-30   | 2424.1  |
| 30-40   | 2855.28 |
| 40-50   | 2886.00 |
| 50-60   | 2549.22 |
| 60-70   | 1899.88 |
| 70-80   | 1052.49 |
| 80-90   | 258.31  |
| 90-100  | 28.53   |
| 100-110 | 108.47  |
| 110-120 | 199.13  |
| 120-130 | 269.01  |
| 130-140 | 305.76  |
| 140-150 | 304.02  |
| 150-160 | 257.03  |
| 160-170 | 167.39  |
| 170-180 | 55.86   |

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  | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 99 | 99 | 99 | 93 | 93 | 93 | 90 |
| 1  | 107 | 102 | 98  | 94  | 103 | 99  | 95  | 92  | 93  | 90  | 87  | 88 | 85 | 83 | 83 | 81 | 79 | 76 |
| 2  | 97  | 89  | 83  | 77  | 94  | 87  | 81  | 75  | 82  | 77  | 72  | 77 | 73 | 69 | 73 | 69 | 66 | 64 |
| 3  | 89  | 79  | 71  | 64  | 86  | 76  | 69  | 63  | 72  | 66  | 61  | 68 | 63 | 59 | 64 | 60 | 56 | 54 |
| 4  | 81  | 70  | 61  | 55  | 78  | 68  | 60  | 54  | 64  | 57  | 52  | 61 | 55 | 50 | 57 | 53 | 49 | 46 |
| 5  | 75  | 62  | 53  | 47  | 72  | 61  | 52  | 46  | 57  | 50  | 45  | 54 | 48 | 44 | 52 | 46 | 42 | 40 |
| 6  | 69  | 56  | 47  | 41  | 67  | 55  | 46  | 41  | 52  | 45  | 39  | 49 | 43 | 38 | 47 | 42 | 37 | 35 |
| 7  | 64  | 51  | 42  | 36  | 62  | 50  | 42  | 36  | 47  | 40  | 35  | 45 | 39 | 34 | 43 | 37 | 33 | 31 |
| 8  | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 43  | 36  | 31  | 41 | 35 | 30 | 39 | 34 | 30 | 28 |
| 9  | 56  | 43  | 35  | 29  | 54  | 42  | 34  | 29  | 40  | 33  | 28  | 38 | 32 | 27 | 36 | 31 | 27 | 25 |
| 10 | 52  | 39  | 32  | 26  | 50  | 38  | 31  | 26  | 37  | 30  | 26  | 35 | 29 | 25 | 34 | 28 | 24 | 23 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDI5-8-L27-835-DMA-10U-90D-(L22)-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 | 19.8 | 21.2 | 20.3 | 21.7 | 22.2 | 20.4 | 21.8 | 20.9 | 22.3 | 22.9 |
|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 3H   | 21.2 | 22.5 | 21.8 | 23.0 | 23.6 | 22.1 | 23.4 | 22.7 | 23.9 | 24.5 |
|      | 4H   | 21.7 | 22.9 | 22.2 | 23.4 | 24.0 | 22.7 | 23.9 | 23.3 | 24.4 | 25.0 |
|      | 6H   | 21.9 | 23.0 | 22.5 | 23.6 | 24.2 | 23.1 | 24.2 | 23.7 | 24.8 | 25.4 |
|      | 8H   | 22.0 | 23.0 | 22.5 | 23.6 | 24.2 | 23.2 | 24.3 | 23.8 | 24.8 | 25.5 |
|      | 12H  | 22.0 | 23.0 | 22.6 | 23.5 | 24.2 | 23.3 | 24.3 | 23.8 | 24.8 | 25.5 |

### UGR Viewed Endwise

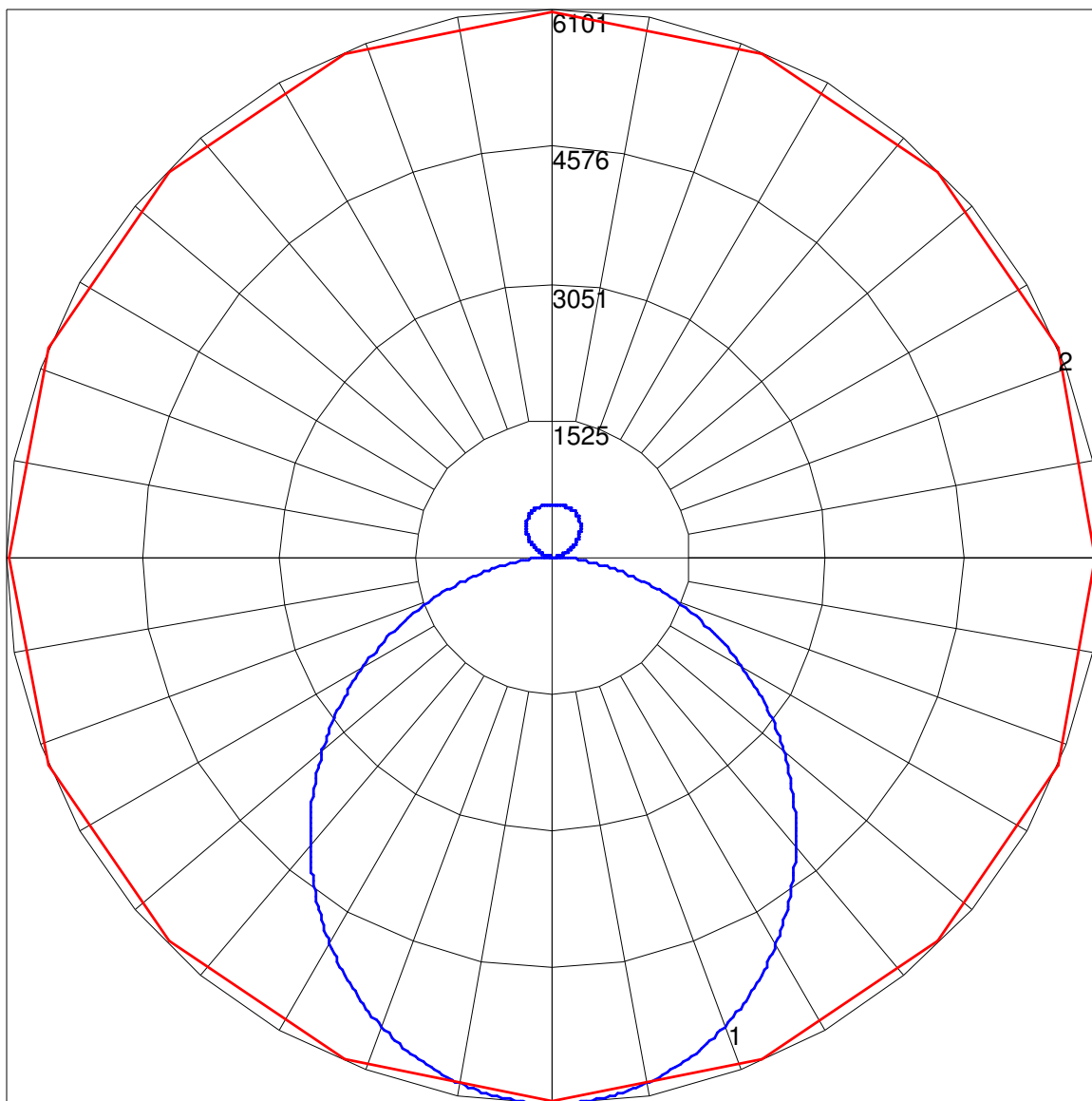
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 20.3 | 21.5 | 20.9 | 22.1 | 22.7 | 20.9 | 22.0 | 21.4 | 22.6 | 23.2 |
|    | 3H  | 22.0 | 23.0 | 22.6 | 23.6 | 24.2 | 22.7 | 23.7 | 23.3 | 24.3 | 24.9 |
|    | 4H  | 22.5 | 23.4 | 23.1 | 24.0 | 24.7 | 23.4 | 24.3 | 24.0 | 24.9 | 25.6 |
|    | 6H  | 22.9 | 23.7 | 23.5 | 24.3 | 24.9 | 23.9 | 24.7 | 24.5 | 25.3 | 26.0 |
|    | 8H  | 22.9 | 23.7 | 23.6 | 24.3 | 25.0 | 24.1 | 24.8 | 24.7 | 25.4 | 26.1 |
|    | 12H | 23.0 | 23.6 | 23.6 | 24.3 | 24.9 | 24.1 | 24.8 | 24.8 | 25.4 | 26.1 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 22.8 | 23.5 | 23.4 | 24.1 | 24.8 | 23.6 | 24.3 | 24.2 | 24.9 | 25.6 |
|    | 6H  | 23.2 | 23.8 | 23.8 | 24.4 | 25.1 | 24.1 | 24.7 | 24.8 | 25.4 | 26.1 |
|    | 8H  | 23.3 | 23.8 | 23.9 | 24.5 | 25.2 | 24.3 | 24.8 | 24.9 | 25.5 | 26.2 |
|    | 12H | 23.3 | 23.8 | 24.0 | 24.4 | 25.2 | 24.4 | 24.9 | 25.1 | 25.5 | 26.3 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 22.8 | 23.4 | 23.4 | 24.1 | 24.8 | 23.6 | 24.2 | 24.2 | 24.9 | 25.6 |
|     | 6H | 23.2 | 23.7 | 23.9 | 24.4 | 25.1 | 24.1 | 24.7 | 24.8 | 25.3 | 26.1 |
|     | 8H | 23.3 | 23.8 | 24.0 | 24.4 | 25.2 | 24.3 | 24.8 | 25.0 | 25.5 | 26.2 |

Maximum UGR = 26.3

POLAR GRAPH



Maximum Candela = 6101.006 Located At Horizontal Angle = 22.5, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)