



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L180-840-CA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14617179.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2023-03-13
[TESTDATE] 1/6/2023
[MANUFAC] H E Williams Inc
[LUMCAT] GS-2-L180-840-CA-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] ULT D21CC80UNVPW-C
[OTHER] 24.9 C, 120.004 V, 1.44538 A, 173.17 W, 0.998374 PF, 59.9997 H
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.
[FILEGENINFO] 1.10000

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 18002 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 155 |
| Total Luminaire Watts | 116 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.28 |
| Spacing Criterion (90-270) | 1.30 |
| Spacing Criterion (Diagonal) | 1.42 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 1.67 ft |
| Luminous Width (90-270) | 1.17 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 35917 | 37029 | 37699 |
| 55 | 34378 | 35762 | 25723 |
| 65 | 31183 | 21810 | 7070 |
| 75 | 25528 | 7017 | 7107 |
| 85 | 11192 | 9620 | 8958 |

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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 | 6824.157 | 6824.157 | 6824.157 | 6824.157 | 6824.157 |
| 0.5 | 6739.855 | 6828.444 | 6843.447 | 6832.730 | 6846.304 |
| 1.0 | 6741.999 | 6829.158 | 6844.161 | 6832.730 | 6845.590 |
| 1.5 | 6744.856 | 6828.444 | 6844.875 | 6830.587 | 6843.447 |
| 2.0 | 6744.142 | 6829.872 | 6843.447 | 6831.301 | 6844.161 |
| 2.5 | 6742.713 | 6828.444 | 6844.161 | 6829.872 | 6842.018 |
| 3.0 | 6741.999 | 6825.586 | 6842.732 | 6830.587 | 6843.447 |
| 3.5 | 6739.855 | 6821.299 | 6842.018 | 6830.587 | 6843.447 |
| 4.0 | 6734.854 | 6819.156 | 6839.874 | 6833.445 | 6844.875 |
| 4.5 | 6728.425 | 6814.870 | 6837.017 | 6834.873 | 6846.304 |
| 5.0 | 6719.852 | 6809.869 | 6834.873 | 6833.445 | 6844.161 |
| 5.5 | 6713.422 | 6805.582 | 6832.016 | 6831.301 | 6841.303 |
| 6.0 | 6708.421 | 6801.296 | 6828.444 | 6826.300 | 6835.588 |
| 6.5 | 6701.277 | 6794.866 | 6824.872 | 6821.299 | 6827.729 |
| 7.0 | 6691.989 | 6787.722 | 6817.727 | 6814.155 | 6818.442 |
| 7.5 | 6684.130 | 6781.292 | 6811.298 | 6804.868 | 6808.440 |
| 8.0 | 6676.986 | 6773.433 | 6802.010 | 6794.866 | 6799.152 |
| 8.5 | 6673.414 | 6764.860 | 6793.437 | 6784.864 | 6792.008 |
| 9.0 | 6667.699 | 6755.573 | 6784.149 | 6774.862 | 6783.435 |
| 9.5 | 6659.840 | 6748.428 | 6776.291 | 6767.718 | 6777.005 |
| 10.0 | 6651.267 | 6741.999 | 6767.718 | 6759.145 | 6768.432 |
| 10.5 | 6643.408 | 6734.854 | 6757.716 | 6748.428 | 6758.430 |
| 11.0 | 6634.835 | 6727.710 | 6746.285 | 6736.283 | 6747.714 |
| 11.5 | 6627.691 | 6719.852 | 6734.854 | 6724.852 | 6731.282 |
| 12.0 | 6614.117 | 6709.850 | 6725.567 | 6709.850 | 6709.850 |
| 12.5 | 6599.114 | 6699.848 | 6712.707 | 6689.846 | 6692.704 |
| 13.0 | 6584.111 | 6688.417 | 6699.133 | 6669.842 | 6674.129 |
| 13.5 | 6568.394 | 6672.700 | 6685.559 | 6652.696 | 6653.410 |
| 14.0 | 6551.248 | 6657.697 | 6671.271 | 6633.406 | 6634.121 |
| 14.5 | 6528.386 | 6642.694 | 6654.125 | 6614.117 | 6617.689 |
| 15.0 | 6511.955 | 6627.691 | 6637.693 | 6594.828 | 6604.830 |
| 15.5 | 6502.667 | 6611.259 | 6618.404 | 6576.253 | 6591.970 |
| 16.0 | 6489.093 | 6592.684 | 6599.114 | 6559.821 | 6576.253 |
| 16.5 | 6474.805 | 6575.538 | 6576.253 | 6543.389 | 6561.964 |
| 17.0 | 6465.517 | 6557.678 | 6556.249 | 6526.958 | 6545.533 |
| 17.5 | 6450.515 | 6540.532 | 6534.816 | 6508.383 | 6529.815 |
| 18.0 | 6433.368 | 6520.528 | 6511.955 | 6491.237 | 6511.240 |
| 18.5 | 6414.793 | 6501.238 | 6491.951 | 6470.518 | 6486.950 |
| 19.0 | 6392.646 | 6482.663 | 6466.946 | 6449.086 | 6464.089 |
| 19.5 | 6368.356 | 6463.374 | 6443.370 | 6428.367 | 6445.514 |
| 20.0 | 6345.495 | 6444.085 | 6420.509 | 6406.220 | 6425.510 |
| 20.5 | 6323.347 | 6423.366 | 6399.791 | 6384.788 | 6405.506 |
| 21.0 | 6301.915 | 6401.219 | 6378.358 | 6364.784 | 6384.073 |
| 21.5 | 6276.910 | 6379.072 | 6356.211 | 6344.780 | 6360.497 |
| 22.0 | 6252.620 | 6356.925 | 6334.064 | 6323.347 | 6336.921 |
| 22.5 | 6231.901 | 6333.349 | 6310.488 | 6301.200 | 6315.489 |
| 23.0 | 6211.183 | 6309.059 | 6284.054 | 6275.481 | 6289.770 |
| 23.5 | 6190.465 | 6281.911 | 6258.335 | 6252.620 | 6266.908 |
| 24.0 | 6164.746 | 6257.621 | 6230.473 | 6229.758 | 6241.903 |
| 24.5 | 6142.599 | 6233.330 | 6201.896 | 6204.039 | 6218.327 |
| 25.0 | 6118.308 | 6203.325 | 6171.176 | 6180.463 | 6191.179 |
| 25.5 | 6090.446 | 6178.320 | 6144.028 | 6154.029 | 6165.460 |
| 26.0 | 6058.297 | 6153.315 | 6117.594 | 6127.596 | 6136.883 |
| 26.5 | 6023.290 | 6120.452 | 6091.875 | 6099.733 | 6109.021 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 27.0 | 5991.141 | 6088.303 | 6064.012 | 6072.585 | 6081.158 |
| 27.5 | 5959.707 | 6054.725 | 6038.293 | 6045.437 | 6054.010 |
| 28.0 | 5929.701 | 6021.147 | 6010.431 | 6019.718 | 6026.862 |
| 28.5 | 5903.982 | 5987.569 | 5981.139 | 5991.856 | 5997.571 |
| 29.0 | 5875.405 | 5954.706 | 5951.134 | 5958.992 | 5968.994 |
| 29.5 | 5846.828 | 5921.842 | 5921.128 | 5928.987 | 5943.275 |
| 30.0 | 5818.251 | 5885.407 | 5888.979 | 5897.552 | 5913.269 |
| 30.5 | 5789.674 | 5851.829 | 5859.688 | 5865.403 | 5886.121 |
| 31.0 | 5758.954 | 5814.679 | 5830.396 | 5835.397 | 5856.116 |
| 31.5 | 5724.662 | 5778.244 | 5799.676 | 5804.677 | 5826.110 |
| 32.0 | 5688.941 | 5745.380 | 5767.527 | 5773.243 | 5794.675 |
| 32.5 | 5651.791 | 5710.374 | 5736.807 | 5745.380 | 5761.812 |
| 33.0 | 5613.212 | 5676.081 | 5708.945 | 5714.660 | 5731.806 |
| 33.5 | 5576.062 | 5639.646 | 5676.796 | 5683.225 | 5704.658 |
| 34.0 | 5538.198 | 5601.067 | 5641.789 | 5650.362 | 5673.224 |
| 34.5 | 5502.477 | 5563.203 | 5606.068 | 5617.499 | 5640.360 |
| 35.0 | 5469.613 | 5523.909 | 5566.775 | 5585.350 | 5605.354 |
| 35.5 | 5438.893 | 5484.616 | 5521.766 | 5551.772 | 5573.919 |
| 36.0 | 5401.743 | 5442.465 | 5485.331 | 5518.194 | 5541.056 |
| 36.5 | 5363.165 | 5400.314 | 5450.324 | 5483.187 | 5506.049 |
| 37.0 | 5318.870 | 5358.164 | 5411.745 | 5448.895 | 5471.757 |
| 37.5 | 5271.004 | 5316.727 | 5372.452 | 5414.603 | 5435.321 |
| 38.0 | 5225.281 | 5276.005 | 5337.445 | 5378.882 | 5397.457 |
| 38.5 | 5178.844 | 5234.569 | 5303.868 | 5341.732 | 5356.020 |
| 39.0 | 5138.122 | 5193.132 | 5264.574 | 5301.724 | 5317.442 |
| 39.5 | 5099.543 | 5148.838 | 5220.995 | 5259.573 | 5279.577 |
| 40.0 | 5059.535 | 5102.401 | 5177.415 | 5219.566 | 5240.284 |
| 40.5 | 5018.099 | 5055.963 | 5135.978 | 5178.844 | 5203.134 |
| 41.0 | 4979.520 | 5009.526 | 5093.827 | 5134.550 | 5165.270 |
| 41.5 | 4932.368 | 4962.374 | 5048.819 | 5093.827 | 5121.690 |
| 42.0 | 4880.215 | 4915.936 | 5003.096 | 5050.248 | 5077.396 |
| 42.5 | 4823.776 | 4868.785 | 4956.659 | 5006.668 | 5033.816 |
| 43.0 | 4768.766 | 4820.918 | 4912.364 | 4963.088 | 4991.665 |
| 43.5 | 4717.327 | 4770.194 | 4866.641 | 4918.794 | 4950.229 |
| 44.0 | 4671.604 | 4722.328 | 4825.205 | 4875.929 | 4911.650 |
| 44.5 | 4633.740 | 4675.176 | 4780.911 | 4837.350 | 4870.213 |
| 45.0 | 4594.447 | 4625.167 | 4736.617 | 4797.342 | 4822.347 |
| 45.5 | 4551.581 | 4576.586 | 4688.750 | 4749.476 | 4778.767 |
| 46.0 | 4500.857 | 4526.577 | 4635.169 | 4696.609 | 4731.616 |
| 46.5 | 4448.705 | 4474.424 | 4578.729 | 4653.029 | 4686.607 |
| 47.0 | 4393.694 | 4424.414 | 4530.863 | 4608.021 | 4643.027 |
| 47.5 | 4344.399 | 4376.548 | 4482.997 | 4560.869 | 4596.590 |
| 48.0 | 4299.390 | 4330.111 | 4432.273 | 4515.860 | 4548.724 |
| 48.5 | 4255.096 | 4287.960 | 4382.263 | 4471.566 | 4491.570 |
| 49.0 | 4207.944 | 4230.092 | 4335.112 | 4425.843 | 4418.699 |
| 49.5 | 4157.221 | 4168.651 | 4288.674 | 4380.120 | 4334.397 |
| 50.0 | 4093.637 | 4117.213 | 4240.093 | 4330.825 | 4232.949 |
| 50.5 | 4035.769 | 4072.204 | 4187.941 | 4277.958 | 4109.354 |
| 51.0 | 3981.473 | 4018.623 | 4135.788 | 4213.660 | 3967.184 |
| 51.5 | 3934.321 | 3966.470 | 4081.492 | 4135.073 | 3830.730 |
| 52.0 | 3889.312 | 3910.031 | 4030.053 | 4043.627 | 3720.709 |
| 52.5 | 3837.874 | 3855.735 | 3977.901 | 3925.033 | 3616.403 |
| 53.0 | 3778.577 | 3797.152 | 3924.319 | 3789.293 | 3459.945 |
| 53.5 | 3717.851 | 3742.856 | 3872.881 | 3647.838 | 3249.190 |
| 54.0 | 3661.412 | 3693.561 | 3818.585 | 3528.529 | 3008.430 |
| 54.5 | 3614.260 | 3639.265 | 3763.574 | 3425.653 | 2809.107 |

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| | | | | | |
|------|----------|----------|----------|----------|----------|
| 55.0 | 3567.108 | 3575.681 | 3710.707 | 3297.057 | 2669.080 |
| 55.5 | 3507.097 | 3517.099 | 3656.411 | 3114.165 | 2562.631 |
| 56.0 | 3442.084 | 3469.947 | 3603.544 | 2886.264 | 2459.040 |
| 56.5 | 3387.788 | 3419.937 | 3549.962 | 2674.081 | 2329.730 |
| 57.0 | 3342.065 | 3364.212 | 3493.523 | 2524.052 | 2198.990 |
| 57.5 | 3290.627 | 3302.058 | 3431.368 | 2416.889 | 2090.398 |
| 58.0 | 3231.330 | 3241.332 | 3364.927 | 2329.730 | 2023.243 |
| 58.5 | 3164.889 | 3183.464 | 3283.483 | 2223.281 | 1981.092 |
| 59.0 | 3111.307 | 3127.024 | 3189.893 | 2077.539 | 1946.085 |
| 59.5 | 3059.154 | 3066.298 | 3083.445 | 1956.801 | 1896.790 |
| 60.0 | 2991.999 | 3002.715 | 2957.706 | 1885.359 | 1831.063 |
| 60.5 | 2927.701 | 2948.419 | 2844.828 | 1843.208 | 1747.476 |
| 61.0 | 2869.832 | 2889.122 | 2738.379 | 1807.487 | 1643.885 |
| 61.5 | 2819.108 | 2827.682 | 2614.784 | 1755.334 | 1534.578 |
| 62.0 | 2758.383 | 2762.669 | 2480.473 | 1688.179 | 1425.272 |
| 62.5 | 2683.368 | 2696.942 | 2306.868 | 1600.305 | 1280.244 |
| 63.0 | 2617.642 | 2640.503 | 2111.116 | 1490.998 | 1062.345 |
| 63.5 | 2565.489 | 2584.778 | 1952.515 | 1385.264 | 886.597 |
| 64.0 | 2501.905 | 2519.766 | 1844.637 | 1279.529 | 782.292 |
| 64.5 | 2441.179 | 2462.612 | 1762.479 | 1122.357 | 686.631 |
| 65.0 | 2384.026 | 2404.029 | 1667.461 | 916.603 | 540.532 |
| 65.5 | 2308.297 | 2337.588 | 1548.152 | 774.433 | 468.375 |
| 66.0 | 2243.999 | 2276.148 | 1448.133 | 687.631 | 452.229 |
| 66.5 | 2188.274 | 2220.423 | 1388.122 | 559.749 | 444.799 |
| 67.0 | 2127.548 | 2158.268 | 1340.970 | 469.089 | 438.298 |
| 67.5 | 2063.965 | 2096.828 | 1291.675 | 436.297 | 431.868 |
| 68.0 | 1998.238 | 2041.103 | 1228.091 | 427.296 | 425.867 |
| 68.5 | 1941.084 | 1975.376 | 1138.074 | 420.151 | 420.009 |
| 69.0 | 1885.359 | 1916.079 | 1035.197 | 413.507 | 414.150 |
| 69.5 | 1823.204 | 1855.353 | 947.323 | 407.292 | 408.149 |
| 70.0 | 1762.479 | 1798.914 | 826.586 | 401.362 | 402.219 |
| 70.5 | 1703.896 | 1734.616 | 671.699 | 395.290 | 396.504 |
| 71.0 | 1652.458 | 1667.461 | 571.895 | 389.646 | 390.789 |
| 71.5 | 1593.161 | 1597.447 | 496.595 | 384.002 | 384.359 |
| 72.0 | 1533.864 | 1523.147 | 410.435 | 377.643 | 378.143 |
| 72.5 | 1475.281 | 1428.129 | 367.856 | 371.571 | 371.499 |
| 73.0 | 1420.271 | 1328.825 | 356.782 | 365.427 | 364.284 |
| 73.5 | 1365.260 | 1243.808 | 349.424 | 358.854 | 356.997 |
| 74.0 | 1310.250 | 1153.791 | 342.208 | 351.781 | 348.995 |
| 74.5 | 1255.954 | 1055.201 | 335.421 | 344.137 | 341.065 |
| 75.0 | 1195.228 | 929.463 | 328.563 | 336.350 | 332.778 |
| 75.5 | 1139.503 | 841.589 | 321.990 | 328.348 | 324.133 |
| 76.0 | 1083.778 | 777.291 | 315.632 | 320.061 | 315.346 |
| 76.5 | 1024.481 | 706.992 | 308.773 | 311.559 | 306.273 |
| 77.0 | 965.184 | 632.406 | 301.915 | 302.843 | 297.271 |
| 77.5 | 905.172 | 583.826 | 294.556 | 294.056 | 287.983 |
| 78.0 | 838.017 | 524.600 | 286.912 | 284.983 | 278.696 |
| 78.5 | 782.292 | 450.443 | 278.696 | 275.481 | 269.123 |
| 79.0 | 732.997 | 393.218 | 270.409 | 266.194 | 259.764 |
| 79.5 | 681.844 | 310.416 | 261.907 | 256.906 | 250.191 |
| 80.0 | 630.191 | 266.837 | 253.120 | 247.333 | 240.403 |
| 80.5 | 578.467 | 226.043 | 244.332 | 237.474 | 230.758 |
| 81.0 | 525.957 | 212.183 | 235.188 | 227.686 | 222.042 |
| 81.5 | 474.162 | 203.539 | 225.614 | 218.042 | 213.684 |
| 82.0 | 427.510 | 194.537 | 215.613 | 208.254 | 202.539 |
| 82.5 | 385.859 | 185.464 | 205.611 | 198.538 | 192.680 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|---------|---------|---------|---------|---------|
| 83.0 | 341.065 | 176.605 | 194.966 | 188.536 | 183.106 |
| 83.5 | 297.342 | 167.389 | 184.392 | 178.677 | 173.319 |
| 84.0 | 255.120 | 157.959 | 173.462 | 168.389 | 163.245 |
| 84.5 | 215.684 | 147.957 | 162.745 | 157.673 | 152.743 |
| 85.0 | 176.462 | 137.883 | 151.672 | 146.099 | 141.241 |
| 85.5 | 156.101 | 127.167 | 139.812 | 133.668 | 129.453 |
| 86.0 | 133.740 | 116.094 | 127.310 | 120.594 | 116.665 |
| 86.5 | 101.234 | 104.520 | 113.307 | 106.449 | 103.734 |
| 87.0 | 84.230 | 92.446 | 98.447 | 91.660 | 89.660 |
| 87.5 | 73.514 | 79.872 | 82.587 | 76.657 | 74.514 |
| 88.0 | 62.869 | 66.084 | 66.727 | 60.154 | 57.511 |
| 88.5 | 51.224 | 51.224 | 50.581 | 42.294 | 39.007 |
| 89.0 | 37.436 | 36.936 | 34.435 | 27.434 | 25.219 |
| 89.5 | 23.433 | 24.790 | 22.147 | 18.789 | 18.218 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 90.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 91.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 91.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 93.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 93.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 94.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 94.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 96.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 96.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 98.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 98.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 99.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 99.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 101.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 101.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 103.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 103.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 104.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 104.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 106.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 106.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 108.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 108.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 109.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 109.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : GS-2-L180-840-CA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-2-L180-840-CA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-2-L180-840-CA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 2513.51 | N.A. | 14.00 |
| 0-30 | 5360.89 | N.A. | 29.80 |
| 0-40 | 8833.65 | N.A. | 49.10 |
| 0-60 | 15512.5 | N.A. | 86.20 |
| 0-80 | 17839.98 | N.A. | 99.10 |
| 0-90 | 18002.03 | N.A. | 100.00 |
| 10-90 | 17353.87 | N.A. | 96.40 |
| 20-40 | 6320.14 | N.A. | 35.10 |
| 20-50 | 9954.15 | N.A. | 55.30 |
| 40-70 | 8358.84 | N.A. | 46.40 |
| 60-80 | 2327.47 | N.A. | 12.90 |
| 70-80 | 647.49 | N.A. | 3.60 |
| 80-90 | 162.05 | N.A. | 0.90 |
| 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 | 18002.03 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 648.16 |
| 10-20 | 1865.35 |
| 20-30 | 2847.38 |
| 30-40 | 3472.76 |
| 40-50 | 3634.01 |
| 50-60 | 3044.84 |
| 60-70 | 1679.99 |
| 70-80 | 647.49 |
| 80-90 | 162.05 |
| 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 : GS-2-L180-840-CA-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 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 78 | 75 | 73 |
| 3 | 92 | 82 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 66 | 73 | 68 | 65 | 63 |
| 4 | 85 | 73 | 65 | 59 | 82 | 72 | 64 | 58 | 70 | 63 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 50 | 62 | 55 | 50 | 61 | 54 | 49 | 59 | 53 | 49 | 47 |
| 6 | 72 | 59 | 51 | 44 | 70 | 58 | 50 | 44 | 57 | 49 | 44 | 55 | 48 | 43 | 53 | 48 | 43 | 41 |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 36 |
| 8 | 62 | 49 | 41 | 35 | 61 | 48 | 40 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 34 | 32 |
| 9 | 58 | 45 | 37 | 32 | 57 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 29 |
| 10 | 54 | 41 | 34 | 29 | 53 | 41 | 34 | 29 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-2-L180-840-CA-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 | 24.8 | 26.4 | 25.2 | 26.7 | 27.0 | 22.4 | 24.0 | 22.8 | 24.3 | 24.6 |
| | 3H | 26.5 | 27.9 | 26.9 | 28.2 | 28.6 | 22.5 | 23.9 | 22.9 | 24.3 | 24.6 |
| | 4H | 27.0 | 28.4 | 27.4 | 28.7 | 29.1 | 22.6 | 23.9 | 23.0 | 24.3 | 24.7 |
| | 6H | 27.3 | 28.5 | 27.7 | 28.9 | 29.3 | 22.7 | 24.0 | 23.2 | 24.3 | 24.7 |
| | 8H | 27.4 | 28.5 | 27.8 | 28.9 | 29.3 | 22.8 | 24.0 | 23.2 | 24.4 | 24.8 |
| | 12H | 27.4 | 28.5 | 27.8 | 28.9 | 29.3 | 22.9 | 24.0 | 23.3 | 24.4 | 24.8 |

UGR Viewed Endwise

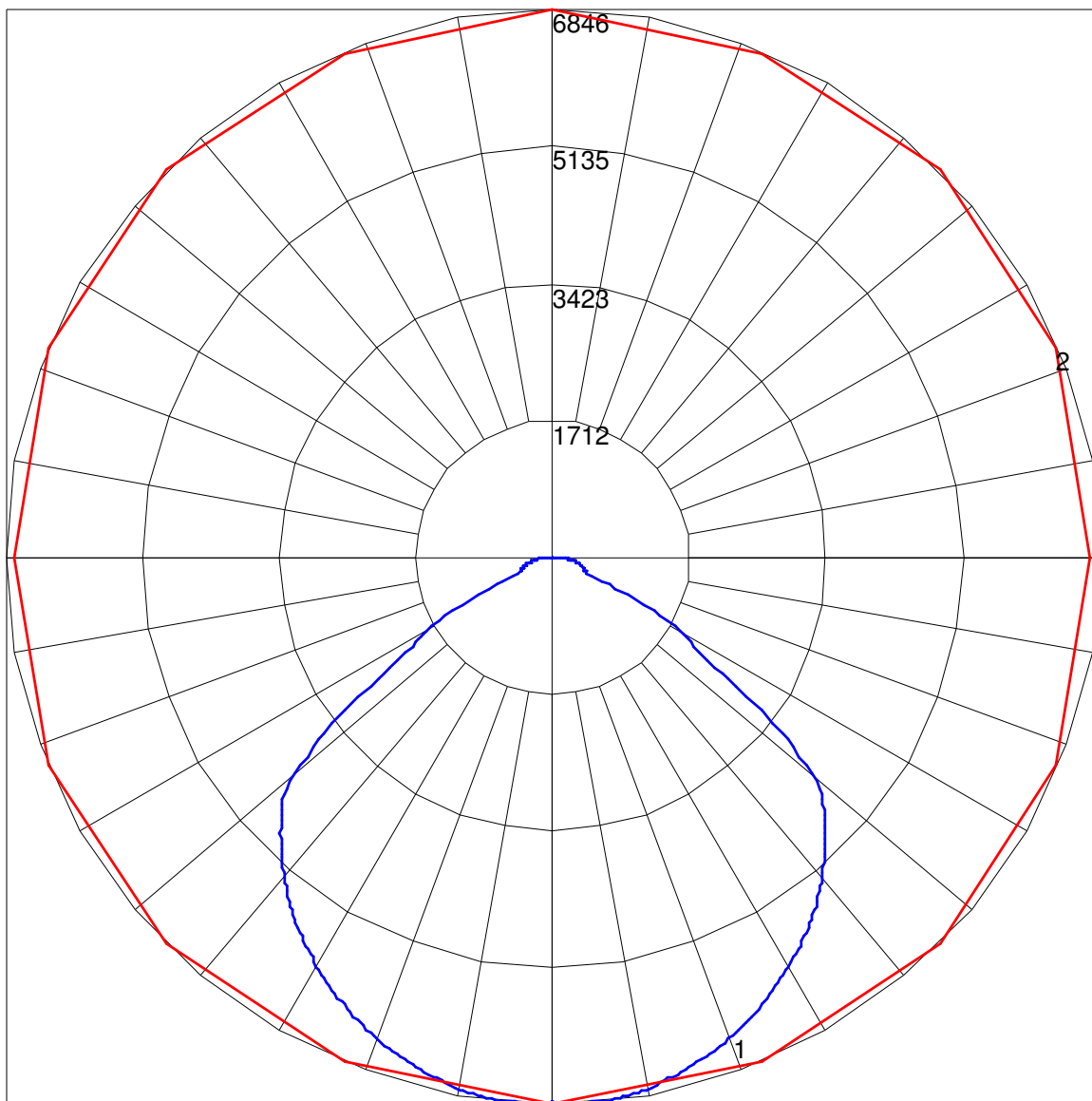
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 25.1 | 26.4 | 25.5 | 26.7 | 27.1 | 23.0 | 24.4 | 23.4 | 24.7 | 25.1 |
| | 3H | 26.9 | 28.0 | 27.3 | 28.4 | 28.8 | 23.2 | 24.3 | 23.6 | 24.7 | 25.1 |
| | 4H | 27.5 | 28.5 | 27.9 | 28.9 | 29.3 | 23.4 | 24.3 | 23.8 | 24.7 | 25.2 |
| | 6H | 27.9 | 28.7 | 28.3 | 29.1 | 29.6 | 23.5 | 24.4 | 24.0 | 24.8 | 25.3 |
| | 8H | 27.9 | 28.7 | 28.4 | 29.2 | 29.6 | 23.6 | 24.4 | 24.1 | 24.9 | 25.3 |
| | 12H | 28.0 | 28.7 | 28.5 | 29.2 | 29.6 | 23.7 | 24.4 | 24.2 | 24.9 | 25.4 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 27.5 | 28.3 | 27.9 | 28.7 | 29.2 | 23.5 | 24.3 | 24.0 | 24.8 | 25.2 |
| | 6H | 27.8 | 28.5 | 28.3 | 29.0 | 29.4 | 23.8 | 24.5 | 24.3 | 24.9 | 25.4 |
| | 8H | 27.9 | 28.5 | 28.4 | 29.0 | 29.5 | 23.9 | 24.5 | 24.4 | 25.0 | 25.5 |
| | 12H | 28.0 | 28.5 | 28.5 | 29.0 | 29.6 | 24.1 | 24.6 | 24.6 | 25.1 | 25.7 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 27.4 | 28.2 | 27.9 | 28.6 | 29.1 | 23.6 | 24.3 | 24.0 | 24.7 | 25.2 |
| | 6H | 27.8 | 28.4 | 28.3 | 28.9 | 29.4 | 23.8 | 24.4 | 24.3 | 24.9 | 25.4 |
| | 8H | 27.9 | 28.4 | 28.4 | 28.9 | 29.5 | 24.0 | 24.5 | 24.5 | 25.0 | 25.6 |

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 6846.304 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)