



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L360-850-CA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14617179.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2023-03-14
[TEST DATE] 1/6/2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] GS-4-L360-850-CA-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] 0-10V LED DRIVER

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 37083 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 160 |
| Total Luminaire Watts | 232 |
| 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) | 3.36 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 | 36708 | 37844 | 38528 |
| 55 | 35134 | 36549 | 26289 |
| 65 | 31869 | 22290 | 7226 |
| 75 | 26089 | 7172 | 7264 |
| 85 | 11438 | 9831 | 9155 |

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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 | 14057.373 | 14057.373 | 14057.373 | 14057.373 | 14057.373 |
| 0.5 | 13883.716 | 14066.203 | 14097.108 | 14075.033 | 14102.994 |
| 1.0 | 13888.131 | 14067.674 | 14098.579 | 14075.033 | 14101.523 |
| 1.5 | 13894.018 | 14066.203 | 14100.051 | 14070.618 | 14097.108 |
| 2.0 | 13892.546 | 14069.146 | 14097.108 | 14072.089 | 14098.579 |
| 2.5 | 13889.603 | 14066.203 | 14098.579 | 14069.146 | 14094.164 |
| 3.0 | 13888.131 | 14060.316 | 14095.636 | 14070.618 | 14097.108 |
| 3.5 | 13883.716 | 14051.486 | 14094.164 | 14070.618 | 14097.108 |
| 4.0 | 13873.414 | 14047.071 | 14089.749 | 14076.504 | 14100.051 |
| 4.5 | 13860.169 | 14038.241 | 14083.863 | 14079.448 | 14102.994 |
| 5.0 | 13842.509 | 14027.939 | 14079.448 | 14076.504 | 14098.579 |
| 5.5 | 13829.264 | 14019.109 | 14073.561 | 14072.089 | 14092.693 |
| 6.0 | 13818.963 | 14010.279 | 14066.203 | 14061.788 | 14080.919 |
| 6.5 | 13804.246 | 13997.034 | 14058.844 | 14051.486 | 14064.731 |
| 7.0 | 13785.114 | 13982.318 | 14044.128 | 14036.769 | 14045.599 |
| 7.5 | 13768.926 | 13969.073 | 14030.883 | 14017.638 | 14024.996 |
| 8.0 | 13754.209 | 13952.884 | 14011.751 | 13997.034 | 14005.864 |
| 8.5 | 13746.851 | 13935.224 | 13994.091 | 13976.431 | 13991.148 |
| 9.0 | 13735.077 | 13916.093 | 13974.959 | 13955.828 | 13973.488 |
| 9.5 | 13718.889 | 13901.376 | 13958.771 | 13941.111 | 13960.243 |
| 10.0 | 13701.229 | 13888.131 | 13941.111 | 13923.451 | 13942.583 |
| 10.5 | 13685.041 | 13873.414 | 13920.508 | 13901.376 | 13921.979 |
| 11.0 | 13667.381 | 13858.698 | 13896.961 | 13876.358 | 13899.904 |
| 11.5 | 13652.664 | 13842.509 | 13873.414 | 13852.811 | 13866.056 |
| 12.0 | 13624.702 | 13821.906 | 13854.283 | 13821.906 | 13821.906 |
| 12.5 | 13593.797 | 13801.303 | 13827.793 | 13780.699 | 13786.586 |
| 13.0 | 13562.892 | 13777.756 | 13799.831 | 13739.492 | 13748.323 |
| 13.5 | 13530.516 | 13745.379 | 13771.869 | 13704.172 | 13705.644 |
| 14.0 | 13495.196 | 13714.474 | 13742.436 | 13664.437 | 13665.909 |
| 14.5 | 13448.102 | 13683.569 | 13707.116 | 13624.702 | 13632.061 |
| 15.0 | 13414.254 | 13652.664 | 13673.267 | 13584.967 | 13605.571 |
| 15.5 | 13395.122 | 13618.816 | 13633.532 | 13546.704 | 13579.081 |
| 16.0 | 13367.160 | 13580.552 | 13593.797 | 13512.856 | 13546.704 |
| 16.5 | 13337.727 | 13545.232 | 13546.704 | 13479.007 | 13517.271 |
| 17.0 | 13318.595 | 13508.441 | 13505.497 | 13445.159 | 13483.422 |
| 17.5 | 13287.690 | 13473.121 | 13461.347 | 13406.896 | 13451.046 |
| 18.0 | 13252.370 | 13431.914 | 13414.254 | 13371.575 | 13412.782 |
| 18.5 | 13214.107 | 13392.179 | 13373.047 | 13328.897 | 13362.745 |
| 19.0 | 13168.485 | 13353.915 | 13321.539 | 13284.747 | 13315.652 |
| 19.5 | 13118.449 | 13314.180 | 13272.974 | 13242.069 | 13277.389 |
| 20.0 | 13071.355 | 13274.445 | 13225.880 | 13196.447 | 13236.182 |
| 20.5 | 13025.734 | 13231.767 | 13183.202 | 13152.297 | 13194.975 |
| 21.0 | 12981.583 | 13186.145 | 13139.052 | 13111.090 | 13150.825 |
| 21.5 | 12930.075 | 13140.524 | 13093.430 | 13069.884 | 13102.260 |
| 22.0 | 12880.038 | 13094.902 | 13047.809 | 13025.734 | 13053.695 |
| 22.5 | 12837.360 | 13046.337 | 12999.243 | 12980.112 | 13009.545 |
| 23.0 | 12794.682 | 12996.300 | 12944.792 | 12927.132 | 12956.565 |
| 23.5 | 12752.003 | 12940.377 | 12891.812 | 12880.038 | 12909.472 |
| 24.0 | 12699.023 | 12890.340 | 12834.417 | 12832.945 | 12857.963 |
| 24.5 | 12653.402 | 12840.303 | 12775.550 | 12779.965 | 12809.398 |
| 25.0 | 12603.365 | 12778.493 | 12712.268 | 12731.400 | 12753.475 |
| 25.5 | 12545.970 | 12726.985 | 12656.345 | 12676.948 | 12700.495 |
| 26.0 | 12479.745 | 12675.477 | 12601.893 | 12622.496 | 12641.628 |
| 26.5 | 12407.633 | 12607.780 | 12548.913 | 12565.101 | 12584.233 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---|
| 27.0 | 12341.40812541.55512491.51812509.17812526.838 |
| 27.5 | 12276.65412472.38612438.53812453.25512470.915 |
| 28.0 | 12214.84412403.21812381.14312400.27512414.991 |
| 28.5 | 12161.86412334.05012320.80512342.88012354.653 |
| 29.0 | 12102.99812266.35312258.99412275.18312295.786 |
| 29.5 | 12044.13112198.65612197.18412213.37312242.806 |
| 30.0 | 11985.26412123.60112130.95912148.61912180.996 |
| 30.5 | 11926.39812054.43312070.62112082.39412125.073 |
| 31.0 | 11863.11611977.90612010.28312020.58412063.263 |
| 31.5 | 11792.47611902.85111947.00111957.30312001.453 |
| 32.0 | 11718.89211835.15411880.77611892.54911936.699 |
| 32.5 | 11642.36611763.04211817.49411835.15411869.002 |
| 33.0 | 11562.89611692.40211760.09911771.87211807.192 |
| 33.5 | 11486.36911617.34711693.87411707.11911751.269 |
| 34.0 | 11408.37011537.87711621.76211639.42211686.516 |
| 34.5 | 11334.78711459.87911548.17911571.72611618.819 |
| 35.0 | 11267.09011378.93711467.23711505.50011546.707 |
| 35.5 | 11203.80911297.99511374.52211436.33211481.954 |
| 36.0 | 11127.28211211.16711299.46711367.16411414.257 |
| 36.5 | 11047.81211124.33811227.35511295.05211342.145 |
| 37.0 | 10956.56811037.51011147.88511224.41211271.505 |
| 37.5 | 10857.96710952.15311066.94311153.77211196.450 |
| 38.0 | 10763.78010868.26810994.83211080.18811118.452 |
| 38.5 | 10668.12110782.91110925.66311003.66211033.095 |
| 39.0 | 10584.23610697.55510844.72210921.24810953.625 |
| 39.5 | 10504.76610606.31110754.95010834.42010875.627 |
| 40.0 | 10422.35310510.65310665.17810752.00610794.685 |
| 40.5 | 10336.99610414.99410579.82110668.12110718.158 |
| 41.0 | 10257.52610319.33610492.99310576.87810640.160 |
| 41.5 | 10160.39610222.20610400.27810492.99310550.388 |
| 42.0 | 10052.96410126.54810306.09110403.22110459.145 |
| 42.5 | 9936.702 10029.41710210.43310313.44910369.373 |
| 43.0 | 9823.384 9930.816 10119.18910223.67810282.544 |
| 43.5 | 9717.424 9826.327 10025.00210132.43410197.188 |
| 44.0 | 9623.237 9727.726 9939.646 10044.13410117.718 |
| 44.5 | 9545.239 9630.595 9848.402 9964.664 10032.361 |
| 45.0 | 9464.297 9527.579 9757.159 9882.251 9933.759 |
| 45.5 | 9375.997 9427.505 9658.557 9783.649 9843.987 |
| 46.0 | 9271.508 9324.488 9548.182 9674.745 9746.857 |
| 46.5 | 9164.077 9217.057 9431.920 9584.974 9654.142 |
| 47.0 | 9050.758 9114.040 9333.318 9492.259 9564.370 |
| 47.5 | 8949.213 9015.438 9234.717 9395.129 9468.712 |
| 48.0 | 8856.498 8919.780 9130.228 9302.413 9370.110 |
| 48.5 | 8765.255 8832.951 9027.212 9211.170 9252.377 |
| 49.0 | 8668.125 8713.746 8930.081 9116.983 9102.267 |
| 49.5 | 8563.636 8587.183 8834.423 9022.797 8928.610 |
| 50.0 | 8432.658 8481.223 8734.350 8921.251 8719.633 |
| 50.5 | 8313.453 8388.508 8626.918 8812.348 8465.034 |
| 51.0 | 8201.606 8278.133 8519.486 8679.898 8172.172 |
| 51.5 | 8104.476 8170.701 8407.639 8518.014 7891.084 |
| 52.0 | 8011.761 8054.439 8301.679 8329.641 7664.447 |
| 52.5 | 7905.801 7942.592 8194.247 8085.344 7449.583 |
| 53.0 | 7783.652 7821.915 8083.872 7805.727 7127.288 |
| 53.5 | 7658.560 7710.069 7977.912 7514.337 6693.146 |
| 54.0 | 7542.299 7608.524 7866.065 7268.568 6197.194 |
| 54.5 | 7445.168 7496.677 7752.747 7056.648 5786.599 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 55.0 | 7348.038 | 7365.698 | 7643.844 | 6791.748 | 5498.152 |
| 55.5 | 7224.418 | 7245.022 | 7531.997 | 6415.001 | 5278.873 |
| 56.0 | 7090.496 | 7147.892 | 7423.093 | 5945.539 | 5065.481 |
| 56.5 | 6978.650 | 7044.875 | 7312.718 | 5508.453 | 4799.109 |
| 57.0 | 6884.463 | 6930.085 | 7196.457 | 5199.403 | 4529.794 |
| 57.5 | 6778.503 | 6802.050 | 7068.421 | 4978.653 | 4306.101 |
| 58.0 | 6656.354 | 6676.958 | 6931.556 | 4799.109 | 4167.764 |
| 58.5 | 6519.489 | 6557.753 | 6763.786 | 4579.831 | 4080.935 |
| 59.0 | 6409.114 | 6441.491 | 6570.998 | 4279.611 | 4008.824 |
| 59.5 | 6301.682 | 6316.399 | 6351.719 | 4030.899 | 3907.279 |
| 60.0 | 6163.346 | 6185.421 | 6092.706 | 3883.732 | 3771.885 |
| 60.5 | 6030.895 | 6073.574 | 5860.182 | 3796.903 | 3599.700 |
| 61.0 | 5911.690 | 5951.425 | 5640.903 | 3723.320 | 3386.308 |
| 61.5 | 5807.202 | 5824.862 | 5386.305 | 3615.888 | 3161.143 |
| 62.0 | 5682.110 | 5690.940 | 5109.631 | 3477.551 | 2935.978 |
| 62.5 | 5527.585 | 5555.547 | 4752.016 | 3296.536 | 2637.229 |
| 63.0 | 5392.192 | 5439.285 | 4348.779 | 3071.371 | 2188.370 |
| 63.5 | 5284.760 | 5324.495 | 4022.069 | 2853.564 | 1826.340 |
| 64.0 | 5153.781 | 5190.573 | 3799.847 | 2635.757 | 1611.476 |
| 64.5 | 5028.690 | 5072.840 | 3630.605 | 2311.990 | 1414.420 |
| 65.0 | 4910.956 | 4952.163 | 3434.873 | 1888.150 | 1113.464 |
| 65.5 | 4754.959 | 4815.298 | 3189.105 | 1595.288 | 964.826 |
| 66.0 | 4622.509 | 4688.734 | 2983.071 | 1416.480 | 931.566 |
| 66.5 | 4507.719 | 4573.944 | 2859.451 | 1153.052 | 916.260 |
| 67.0 | 4382.627 | 4445.909 | 2762.321 | 966.297 | 902.868 |
| 67.5 | 4251.649 | 4319.346 | 2660.776 | 898.748 | 889.623 |
| 68.0 | 4116.255 | 4204.555 | 2529.797 | 880.205 | 877.261 |
| 68.5 | 3998.522 | 4069.162 | 2344.367 | 865.488 | 865.194 |
| 69.0 | 3883.732 | 3947.014 | 2132.447 | 851.801 | 853.126 |
| 69.5 | 3755.697 | 3821.922 | 1951.432 | 838.998 | 840.764 |
| 70.0 | 3630.605 | 3705.660 | 1702.720 | 826.783 | 828.549 |
| 70.5 | 3509.928 | 3573.210 | 1383.662 | 814.274 | 816.776 |
| 71.0 | 3403.968 | 3434.873 | 1178.070 | 802.648 | 805.002 |
| 71.5 | 3281.820 | 3290.650 | 1022.956 | 791.022 | 791.757 |
| 72.0 | 3159.671 | 3137.596 | 845.473 | 777.924 | 778.954 |
| 72.5 | 3038.994 | 2941.864 | 757.762 | 765.415 | 765.267 |
| 73.0 | 2925.676 | 2737.302 | 734.951 | 752.758 | 750.404 |
| 73.5 | 2812.358 | 2562.174 | 719.793 | 739.219 | 735.393 |
| 74.0 | 2699.039 | 2376.744 | 704.929 | 724.649 | 718.910 |
| 74.5 | 2587.192 | 2173.654 | 690.948 | 708.902 | 702.574 |
| 75.0 | 2462.101 | 1914.640 | 676.820 | 692.861 | 685.503 |
| 75.5 | 2347.310 | 1733.625 | 663.281 | 676.379 | 667.696 |
| 76.0 | 2232.520 | 1601.175 | 650.183 | 659.307 | 649.594 |
| 76.5 | 2110.372 | 1456.363 | 636.055 | 641.794 | 630.904 |
| 77.0 | 1988.223 | 1302.721 | 621.927 | 623.840 | 612.361 |
| 77.5 | 1864.603 | 1202.647 | 606.769 | 605.739 | 593.229 |
| 78.0 | 1726.267 | 1080.646 | 591.022 | 587.048 | 574.098 |
| 78.5 | 1611.476 | 927.887 | 574.098 | 567.475 | 554.377 |
| 79.0 | 1509.931 | 810.006 | 557.026 | 548.343 | 535.098 |
| 79.5 | 1404.560 | 639.440 | 539.513 | 529.212 | 515.378 |
| 80.0 | 1298.158 | 549.668 | 521.412 | 509.491 | 495.216 |
| 80.5 | 1191.610 | 465.636 | 503.310 | 489.182 | 475.349 |
| 81.0 | 1083.442 | 437.085 | 484.473 | 469.021 | 457.394 |
| 81.5 | 976.746 | 419.278 | 464.753 | 449.153 | 440.176 |
| 82.0 | 880.646 | 400.735 | 444.149 | 428.991 | 417.218 |
| 82.5 | 794.848 | 382.045 | 423.546 | 408.977 | 396.909 |

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| | | | | | |
|-------|---------|---------|---------|---------|---------|
| 83.0 | 702.574 | 363.796 | 401.618 | 388.373 | 377.189 |
| 83.5 | 612.508 | 344.812 | 379.838 | 368.064 | 357.027 |
| 84.0 | 525.533 | 325.386 | 357.321 | 346.872 | 336.276 |
| 84.5 | 444.297 | 304.782 | 335.246 | 324.797 | 314.643 |
| 85.0 | 363.502 | 284.032 | 312.435 | 300.956 | 290.949 |
| 85.5 | 321.559 | 261.957 | 288.005 | 275.349 | 266.666 |
| 86.0 | 275.496 | 239.146 | 262.251 | 248.418 | 240.323 |
| 86.5 | 208.535 | 215.305 | 233.407 | 219.279 | 213.686 |
| 87.0 | 173.510 | 190.434 | 202.796 | 188.815 | 184.694 |
| 87.5 | 151.435 | 164.532 | 170.125 | 157.910 | 153.495 |
| 88.0 | 129.507 | 136.129 | 137.454 | 123.914 | 118.469 |
| 88.5 | 105.519 | 105.519 | 104.194 | 87.123 | 80.353 |
| 89.0 | 77.115 | 76.085 | 70.934 | 56.512 | 51.950 |
| 89.5 | 48.271 | 51.067 | 45.622 | 38.705 | 37.528 |
| 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-4-L360-850-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-4-L360-850-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-4-L360-850-CA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 5177.69 | N.A. | 14.00 |
| 0-30 | 11043.13 | N.A. | 29.80 |
| 0-40 | 18196.81 | N.A. | 49.10 |
| 0-60 | 31954.87 | N.A. | 86.20 |
| 0-80 | 36749.33 | N.A. | 99.10 |
| 0-90 | 37083.15 | N.A. | 100.00 |
| 10-90 | 35747.98 | N.A. | 96.40 |
| 20-40 | 13019.12 | N.A. | 35.10 |
| 20-50 | 20504.98 | N.A. | 55.30 |
| 40-70 | 17218.73 | N.A. | 46.40 |
| 60-80 | 4794.46 | N.A. | 12.90 |
| 70-80 | 1333.79 | N.A. | 3.60 |
| 80-90 | 333.82 | 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 | 37083.15 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 1335.17 |
| 10-20 | 3842.52 |
| 20-30 | 5865.44 |
| 30-40 | 7153.68 |
| 40-50 | 7485.86 |
| 50-60 | 6272.2 |
| 60-70 | 3460.68 |
| 70-80 | 1333.79 |
| 80-90 | 333.82 |
| 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-4-L360-850-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-4-L360-850-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 | 25.0 | 26.6 | 25.4 | 26.9 | 27.2 | 22.6 | 24.2 | 23.0 | 24.5 | 24.8 |
| | 3H | 26.7 | 28.1 | 27.1 | 28.4 | 28.8 | 22.7 | 24.1 | 23.1 | 24.4 | 24.8 |
| | 4H | 27.2 | 28.5 | 27.6 | 28.9 | 29.3 | 22.8 | 24.1 | 23.2 | 24.5 | 24.8 |
| | 6H | 27.5 | 28.7 | 27.9 | 29.1 | 29.5 | 22.9 | 24.1 | 23.3 | 24.5 | 24.9 |
| | 8H | 27.6 | 28.7 | 28.0 | 29.1 | 29.5 | 23.0 | 24.1 | 23.4 | 24.5 | 24.9 |
| | 12H | 27.6 | 28.7 | 28.0 | 29.1 | 29.5 | 23.0 | 24.1 | 23.5 | 24.5 | 24.9 |

UGR Viewed Endwise

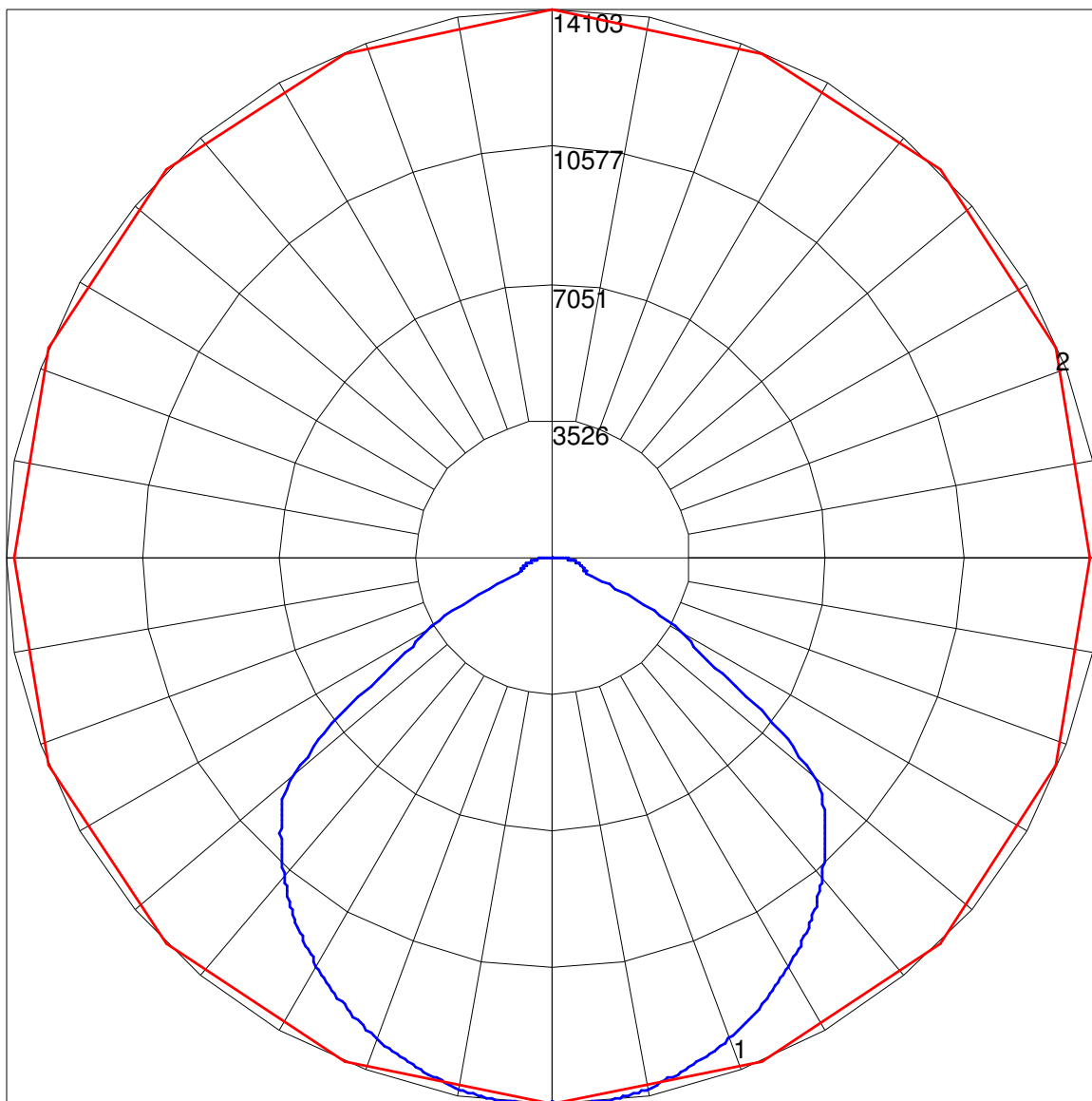
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 25.2 | 26.5 | 25.6 | 26.9 | 27.3 | 23.2 | 24.5 | 23.6 | 24.9 | 25.2 |
| | 3H | 27.1 | 28.2 | 27.5 | 28.6 | 29.0 | 23.4 | 24.5 | 23.8 | 24.9 | 25.3 |
| | 4H | 27.7 | 28.7 | 28.1 | 29.1 | 29.5 | 23.5 | 24.5 | 24.0 | 24.9 | 25.3 |
| | 6H | 28.0 | 28.9 | 28.5 | 29.3 | 29.8 | 23.7 | 24.6 | 24.2 | 25.0 | 25.5 |
| | 8H | 28.1 | 28.9 | 28.6 | 29.3 | 29.8 | 23.8 | 24.6 | 24.3 | 25.0 | 25.5 |
| | 12H | 28.1 | 28.8 | 28.6 | 29.3 | 29.8 | 23.9 | 24.6 | 24.4 | 25.1 | 25.6 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 27.6 | 28.4 | 28.1 | 28.9 | 29.3 | 23.7 | 24.5 | 24.2 | 24.9 | 25.4 |
| | 6H | 28.0 | 28.6 | 28.5 | 29.1 | 29.6 | 24.0 | 24.6 | 24.5 | 25.1 | 25.6 |
| | 8H | 28.1 | 28.7 | 28.6 | 29.2 | 29.7 | 24.1 | 24.7 | 24.6 | 25.2 | 25.7 |
| | 12H | 28.2 | 28.7 | 28.7 | 29.2 | 29.7 | 24.3 | 24.8 | 24.8 | 25.3 | 25.9 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 27.6 | 28.3 | 28.1 | 28.8 | 29.3 | 23.7 | 24.4 | 24.2 | 24.9 | 25.4 |
| | 6H | 28.0 | 28.6 | 28.5 | 29.0 | 29.6 | 24.0 | 24.6 | 24.5 | 25.0 | 25.6 |
| | 8H | 28.1 | 28.6 | 28.6 | 29.1 | 29.6 | 24.2 | 24.7 | 24.7 | 25.2 | 25.8 |

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 14102.994 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.)