



IES ROAD REPORT

PHOTOMETRIC FILENAME : ALL MD 4 UV 850-EHS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] Q2018031901(scaled)
[TESTLAB] QSSI
[ISSUE DATE] 2018-3-19
[MANUFAC] LumenFocus, LLC
[LUMCAT] ALL MD 4 UV 850-EHS
[LUMINAIRE] ALL WITH ONE 167W LED ARRAY, HOUSE SIDE SHIELD
[LAMPCAT] SAMSUNG 351B-N WITH TYPE IV OPTICS
[LAMP] SAMSUNG 351B-N LEDs

CHARACTERISTICS

| | |
|---|----------------------------------|
| IES Classification | Type IV |
| Longitudinal Classification | Very Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 14510 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 81 |
| Total Luminaire Watts | 179 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 11557.491 |
| Maximum Candela Angle | 350H 65V |
| Maximum Candela (<90 Degrees Vertical) | 11557.491 |
| Maximum Candela Angle (<90 Degrees Vertical) | 350H 65V |
| Maximum Candela At 90 Degrees Vertical | 0 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 1146.314 (7.9% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 1068.8 | N.A. | 7.4 |
| FM - Front-Medium (30-60) | 6085.4 | N.A. | 41.9 |
| FH - Front-High (60-80) | 5433.1 | N.A. | 37.4 |
| FVH - Front-Very High (80-90) | 148.4 | N.A. | 1.0 |
| BL - Back-Low (0-30) | 658.9 | N.A. | 4.5 |
| BM - Back-Medium (30-60) | 942.6 | N.A. | 6.5 |
| BH - Back-High (60-80) | 153.8 | N.A. | 1.1 |
| BVH - Back-Very High (80-90) | 18.9 | N.A. | 0.1 |
| UL - Uplight-Low (90-100) | 0.0 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.0 | N.A. | 0.0 |
| Total | 14509.9 | N.A. | 100.0 |
| BUG Rating | B2-U0-G3 | | |

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CANDELA TABULATION

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | <u>0</u> | <u>10</u> | <u>20</u> | <u>30</u> | <u>40</u> | <u>50</u> | <u>60</u> | <u>70</u> | <u>80</u> | <u>90</u> |
| 0 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 |
| 5 | 1986.064 | 1977.381 | 1975.066 | 1967.541 | 1956.542 | 1947.280 | 1938.019 | 1918.337 | 1899.235 | 1936.861 |
| 10 | 2080.997 | 2076.945 | 2076.945 | 2070.577 | 2063.631 | 2054.948 | 2035.845 | 2006.903 | 1960.015 | 1966.383 |
| 15 | 2280.703 | 2296.911 | 2329.906 | 2339.167 | 2342.641 | 2313.119 | 2241.341 | 2160.879 | 2056.106 | 1996.483 |
| 20 | 2644.226 | 2659.855 | 2646.542 | 2635.543 | 2594.444 | 2552.188 | 2492.565 | 2404.000 | 2274.335 | 2121.517 |
| 25 | 3085.317 | 3079.528 | 3050.006 | 2973.018 | 2819.042 | 2736.265 | 2640.174 | 2556.240 | 2422.523 | 2261.600 |
| 30 | 3756.792 | 3722.061 | 3608.026 | 3492.254 | 3269.393 | 2984.595 | 2750.736 | 2590.393 | 2459.570 | 2294.017 |
| 35 | 4821.893 | 4735.063 | 4412.060 | 4202.513 | 3958.235 | 3701.222 | 3191.826 | 2636.122 | 2427.154 | 2259.864 |
| 40 | 6338.502 | 6228.518 | 5851.103 | 5036.070 | 4792.370 | 4658.075 | 4113.369 | 3029.167 | 2354.218 | 2157.985 |
| 45 | 7108.384 | 7137.326 | 6985.086 | 6006.237 | 5760.222 | 5680.918 | 5236.355 | 3896.297 | 2361.164 | 1986.642 |
| 50 | 7750.916 | 7600.413 | 7138.484 | 6711.865 | 6566.572 | 6623.879 | 6097.117 | 4761.691 | 2846.827 | 1781.727 |
| 55 | 8352.929 | 8196.636 | 7647.880 | 7235.153 | 7397.234 | 7374.080 | 6691.605 | 5179.048 | 3396.742 | 1892.868 |
| 60 | 10546.802 | 10234.217 | 9013.408 | 8245.264 | 8093.018 | 7772.913 | 6737.914 | 5129.845 | 3531.037 | 2212.398 |
| 65 | 11540.125 | 11522.759 | 11267.481 | 10336.681 | 18433.972 | 7660.036 | 6201.312 | 4589.191 | 3368.378 | 2124.990 |
| 70 | 7807.065 | 8224.420 | 9407.613 | 9365.933 | 8816.012 | 7177.268 | 5801.900 | 3773.000 | 1948.438 | 980.008 |
| 75 | 2722.372 | 2893.135 | 3426.264 | 4747.220 | 5658.343 | 4662.128 | 2822.515 | 1136.241 | 381.758 | 300.427 |
| 80 | 725.309 | 784.296 | 984.002 | 1135.894 | 1146.314 | 1070.252 | 485.199 | 196.928 | 114.730 | 76.988 |
| 85 | 191.776 | 211.862 | 260.544 | 284.625 | 308.532 | 216.551 | 133.832 | 90.823 | 55.686 | 37.625 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | <u>100</u> | <u>110</u> | <u>120</u> | <u>130</u> | <u>140</u> | <u>150</u> | <u>160</u> | <u>170</u> | <u>180</u> | <u>190</u> |
| 0 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 |
| 5 | 1911.392 | 1886.500 | 1864.504 | 1843.085 | 1823.984 | 1807.775 | 1797.935 | 1792.146 | 1788.673 | 1789.252 |
| 10 | 1913.127 | 1864.504 | 1826.878 | 1793.304 | 1766.098 | 1742.944 | 1716.895 | 1705.896 | 1702.423 | 1709.369 |
| 15 | 1894.604 | 1806.618 | 1740.628 | 1668.849 | 1620.804 | 1597.650 | 1579.706 | 1573.338 | 1569.286 | 1573.916 |
| 20 | 1911.392 | 1749.311 | 1590.124 | 1487.088 | 1433.254 | 1414.152 | 1409.520 | 1403.153 | 1403.153 | 1404.311 |
| 25 | 1983.749 | 1685.057 | 1421.676 | 1276.962 | 1226.601 | 1236.442 | 1279.277 | 1298.380 | 1307.641 | 1301.853 |
| 30 | 1986.642 | 1568.707 | 1243.967 | 1080.729 | 1022.265 | 1069.152 | 1150.192 | 1210.972 | 1227.759 | 1213.867 |
| 35 | 1907.918 | 1439.042 | 1062.785 | 891.442 | 861.920 | 887.390 | 978.271 | 1064.521 | 1078.992 | 1064.521 |
| 40 | 1784.042 | 1273.489 | 890.864 | 728.783 | 703.892 | 711.996 | 779.144 | 863.078 | 888.548 | 868.867 |
| 45 | 1551.341 | 1084.202 | 725.889 | 578.280 | 545.864 | 536.602 | 580.595 | 656.426 | 676.686 | 660.478 |
| 50 | 1325.586 | 883.917 | 565.545 | 429.513 | 394.203 | 381.467 | 394.782 | 465.981 | 522.709 | 482.189 |
| 55 | 1255.545 | 719.521 | 409.253 | 302.164 | 298.691 | 222.803 | 266.911 | 472.348 | 636.166 | 538.917 |

IES ROAD REPORT
PHOTOMETRIC FILENAME : ALL MD 4 UV 850-EHS.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|----------|---------|---------|---------|---------|--------|---------|--------|--------|--------|
| 60 | 1128.195 | 526.183 | 303.322 | 162.775 | 118.029 | 89.665 | 62.922 | 49.840 | 50.824 | 52.098 |
| 65 | 772.197 | 301.007 | 110.967 | 59.217 | 34.384 | 20.897 | 8.509 | 6.772 | 5.962 | 6.078 |
| 70 | 303.901 | 95.859 | 44.746 | 17.887 | 10.130 | 9.841 | 10.477 | 9.956 | 9.262 | 9.493 |
| 75 | 81.966 | 40.752 | 13.603 | 11.172 | 12.677 | 16.035 | 23.212 | 32.185 | 34.095 | 35.831 |
| 80 | 37.568 | 12.271 | 12.792 | 16.787 | 27.728 | 47.930 | 82.198 | 72.473 | 79.130 | 77.335 |
| 85 | 10.651 | 14.124 | 21.186 | 23.560 | 32.069 | 41.851 | 158.492 | 86.655 | 34.037 | 85.671 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**Vert.
Angles**

Horizontal Angles

| | <u>200</u> | <u>210</u> | <u>220</u> | <u>230</u> | <u>240</u> | <u>250</u> | <u>260</u> | <u>270</u> | <u>280</u> | <u>290</u> |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 |
| 5 | 1795.619 | 1796.777 | 1807.775 | 1815.879 | 1832.087 | 1845.980 | 1861.031 | 1942.071 | 1955.385 | 1967.541 |
| 10 | 1716.895 | 1735.418 | 1753.363 | 1770.150 | 1797.356 | 1829.772 | 1865.661 | 1969.277 | 2008.639 | 2039.319 |
| 15 | 1573.338 | 1587.809 | 1614.436 | 1665.955 | 1717.474 | 1774.201 | 1843.085 | 1991.274 | 2080.997 | 2168.983 |
| 20 | 1406.627 | 1409.520 | 1436.149 | 1476.669 | 1576.811 | 1700.108 | 1843.085 | 2102.414 | 2278.388 | 2406.316 |
| 25 | 1281.593 | 1237.021 | 1207.499 | 1273.489 | 1393.891 | 1634.117 | 1892.868 | 2225.712 | 2435.258 | 2573.027 |
| 30 | 1162.348 | 1070.310 | 1011.266 | 1058.153 | 1230.653 | 1516.031 | 1895.183 | 2266.810 | 2493.144 | 2644.226 |
| 35 | 999.689 | 892.021 | 857.290 | 876.971 | 1040.209 | 1395.628 | 1835.560 | 2220.502 | 2448.572 | 2683.009 |
| 40 | 791.878 | 720.100 | 695.788 | 726.467 | 886.232 | 1242.809 | 1720.947 | 2093.731 | 2401.106 | 3003.697 |
| 45 | 592.751 | 551.073 | 545.285 | 577.122 | 711.996 | 1050.050 | 1536.291 | 1904.445 | 2390.107 | 3786.314 |
| 50 | 408.096 | 389.572 | 395.940 | 431.250 | 551.652 | 861.920 | 1306.484 | 1776.517 | 2836.986 | 4717.119 |
| 55 | 307.374 | 257.187 | 302.743 | 298.691 | 398.833 | 704.471 | 1183.766 | 1895.762 | 3407.740 | 5278.033 |
| 60 | 73.862 | 99.332 | 127.986 | 167.174 | 302.743 | 527.341 | 1073.783 | 2140.619 | 3625.392 | 5237.513 |
| 65 | 7.293 | 20.607 | 34.963 | 59.102 | 105.584 | 309.110 | 734.572 | 1808.933 | 3421.633 | 4813.788 |
| 70 | 9.493 | 9.146 | 9.667 | 17.597 | 41.620 | 85.497 | 318.373 | 756.684 | 2145.829 | 3859.829 |
| 75 | 22.691 | 15.224 | 12.677 | 10.883 | 12.214 | 33.458 | 70.216 | 147.957 | 462.681 | 1023.017 |
| 80 | 88.392 | 51.113 | 26.570 | 15.803 | 11.404 | 9.667 | 30.274 | 60.549 | 114.093 | 198.838 |
| 85 | 175.568 | 51.692 | 34.326 | 23.270 | 20.491 | 11.172 | 7.236 | 26.685 | 59.217 | 98.348 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES ROAD REPORT
PHOTOMETRIC FILENAME : ALL MD 4 UV 850-EHS.IES

CANDELA TABULATION - (Cont.)

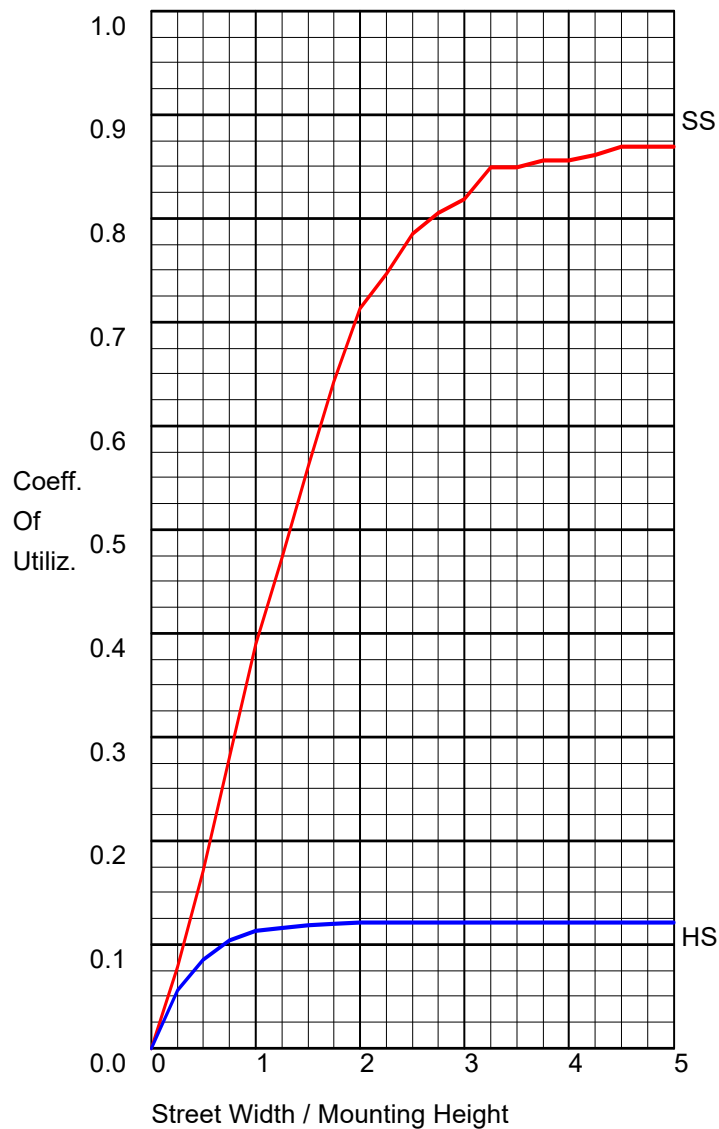
| | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**Vert.
Angles**

Horizontal Angles

| | <u>300</u> | <u>310</u> | <u>320</u> | <u>330</u> | <u>340</u> | <u>350</u> | <u>360</u> |
|-----|------------|------------|------------|------------|------------|------------|------------|
| 0 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 | 1889.582 |
| 5 | 1977.381 | 1983.169 | 1984.906 | 1984.906 | 1986.642 | 1986.642 | 1986.064 |
| 10 | 2066.525 | 2082.733 | 2090.837 | 2087.943 | 2088.522 | 2086.785 | 2080.997 |
| 15 | 2241.919 | 2315.435 | 2357.113 | 2355.955 | 2318.328 | 2297.489 | 2280.703 |
| 20 | 2502.405 | 2569.554 | 2611.231 | 2652.330 | 2661.013 | 2639.595 | 2644.226 |
| 25 | 2671.433 | 2755.946 | 2834.091 | 2974.754 | 3051.743 | 3079.528 | 3085.317 |
| 30 | 2780.837 | 2973.597 | 3232.926 | 3473.151 | 3643.915 | 3722.061 | 3756.792 |
| 35 | 3107.313 | 3579.083 | 3851.146 | 4118.579 | 4388.327 | 4677.178 | 4821.893 |
| 40 | 4002.228 | 4498.310 | 4645.919 | 4845.625 | 5633.452 | 6176.421 | 6338.502 |
| 45 | 5111.322 | 5478.897 | 5537.940 | 5733.594 | 6633.141 | 6981.035 | 7108.384 |
| 50 | 5927.512 | 6341.396 | 6357.604 | 6489.004 | 6909.836 | 7594.625 | 7750.916 |
| 55 | 6630.246 | 7234.575 | 7158.165 | 7070.758 | 7444.122 | 8080.869 | 8352.929 |
| 60 | 6857.738 | 7761.336 | 7945.413 | 8119.648 | 8820.067 | 10118.450 | 10546.802 |
| 65 | 6449.642 | 7750.337 | 8407.342 | 10323.940 | 11276.168 | 11557.491 | 11540.125 |
| 70 | 5966.874 | 7301.143 | 8969.412 | 9567.376 | 9550.010 | 8571.160 | 7807.065 |
| 75 | 3042.481 | 4999.602 | 5803.636 | 5008.285 | 3620.761 | 2897.187 | 2722.372 |
| 80 | 591.420 | 1071.641 | 1075.056 | 1123.449 | 992.163 | 834.540 | 725.309 |
| 85 | 137.363 | 232.991 | 364.796 | 300.659 | 258.229 | 224.076 | 191.776 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

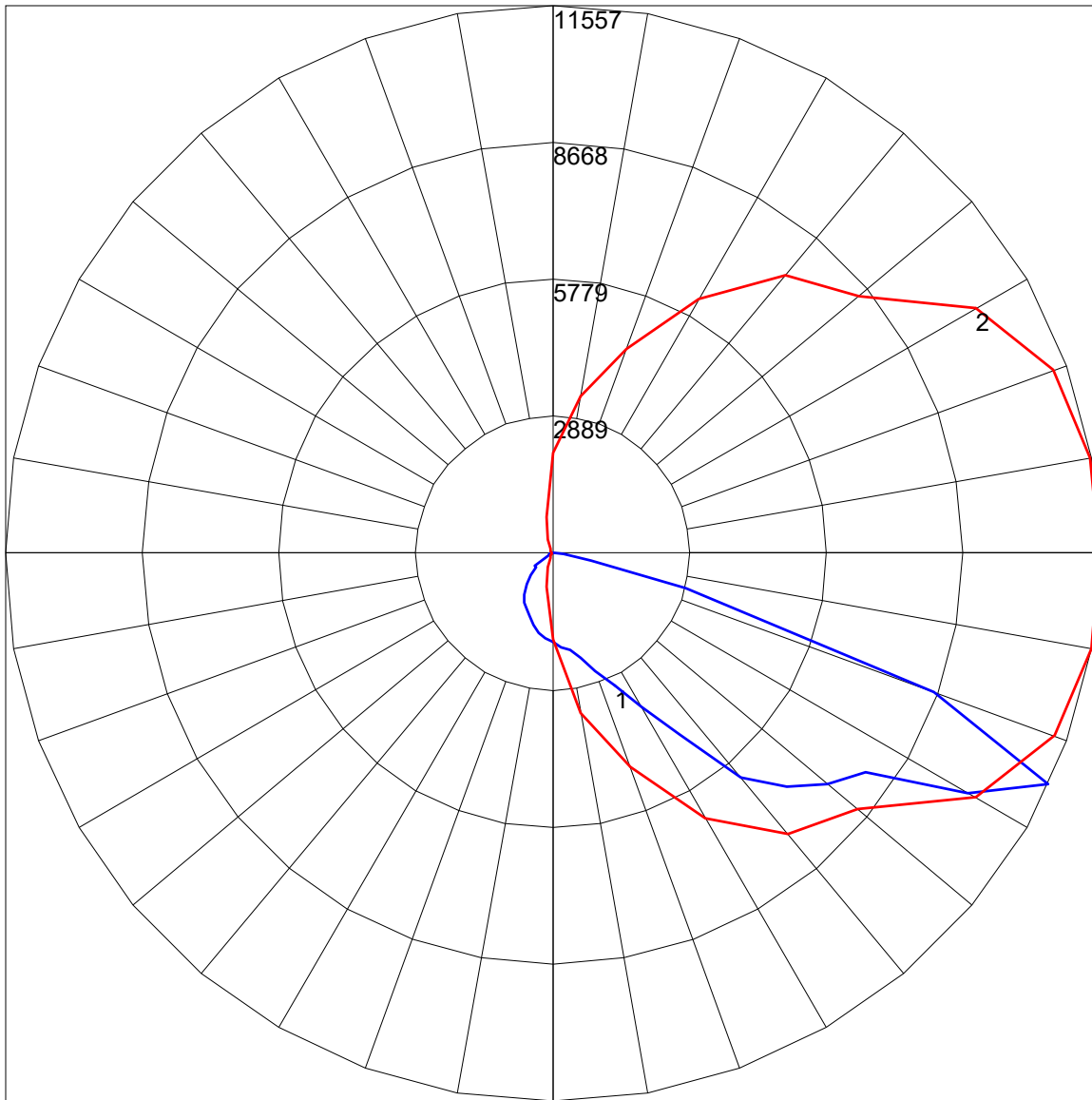
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

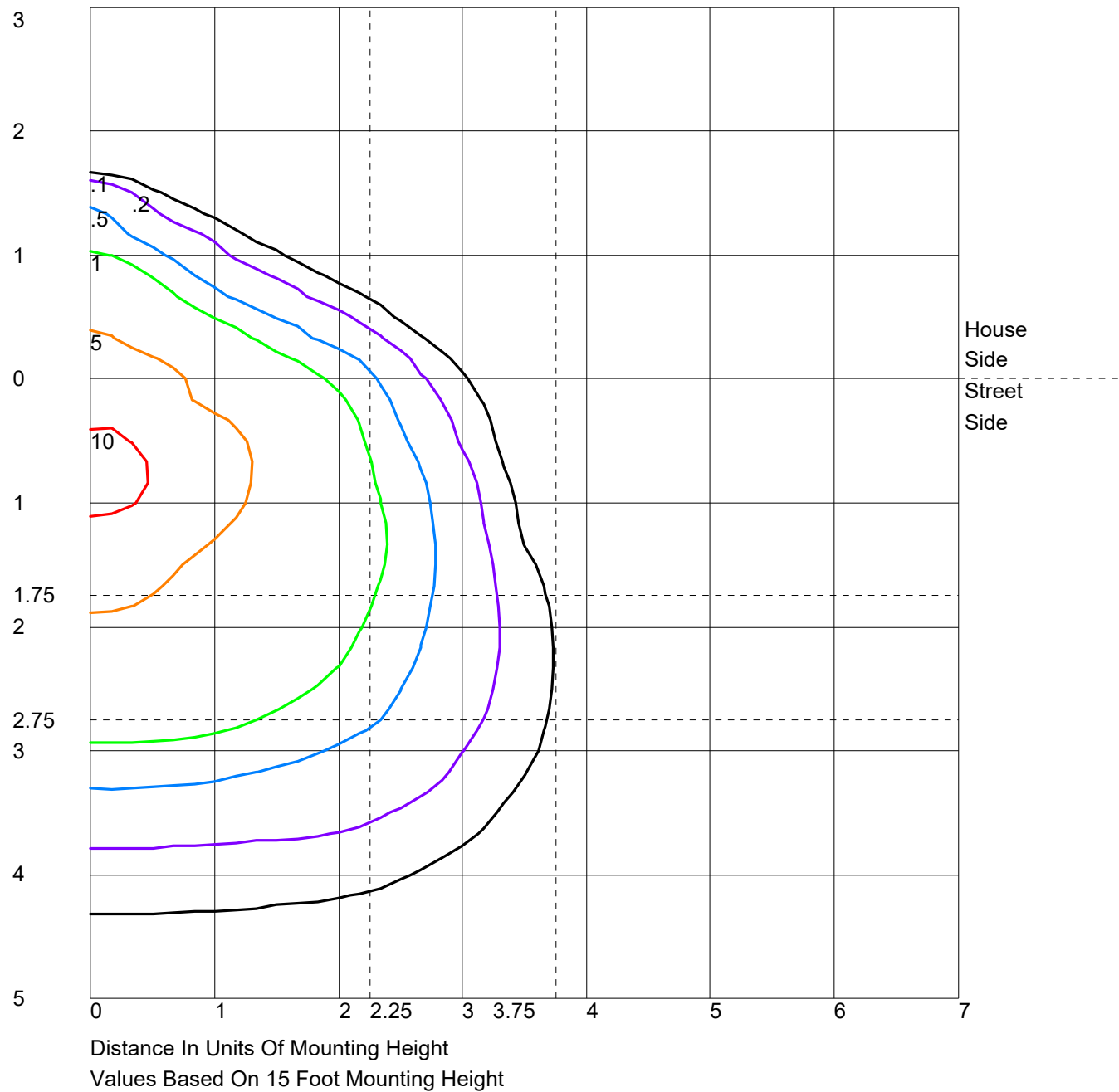
| | Lumens | Percent Of Luminaire |
|----------------------|---------|-------------------------|
| Downward Street Side | 12735.7 | 87.8 |
| Downward House Side | 1774.1 | 12.2 |
| Downward Total | 14509.8 | 100.0 |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| Total Flux | 14509.8 | 100.0 |

POLAR GRAPH

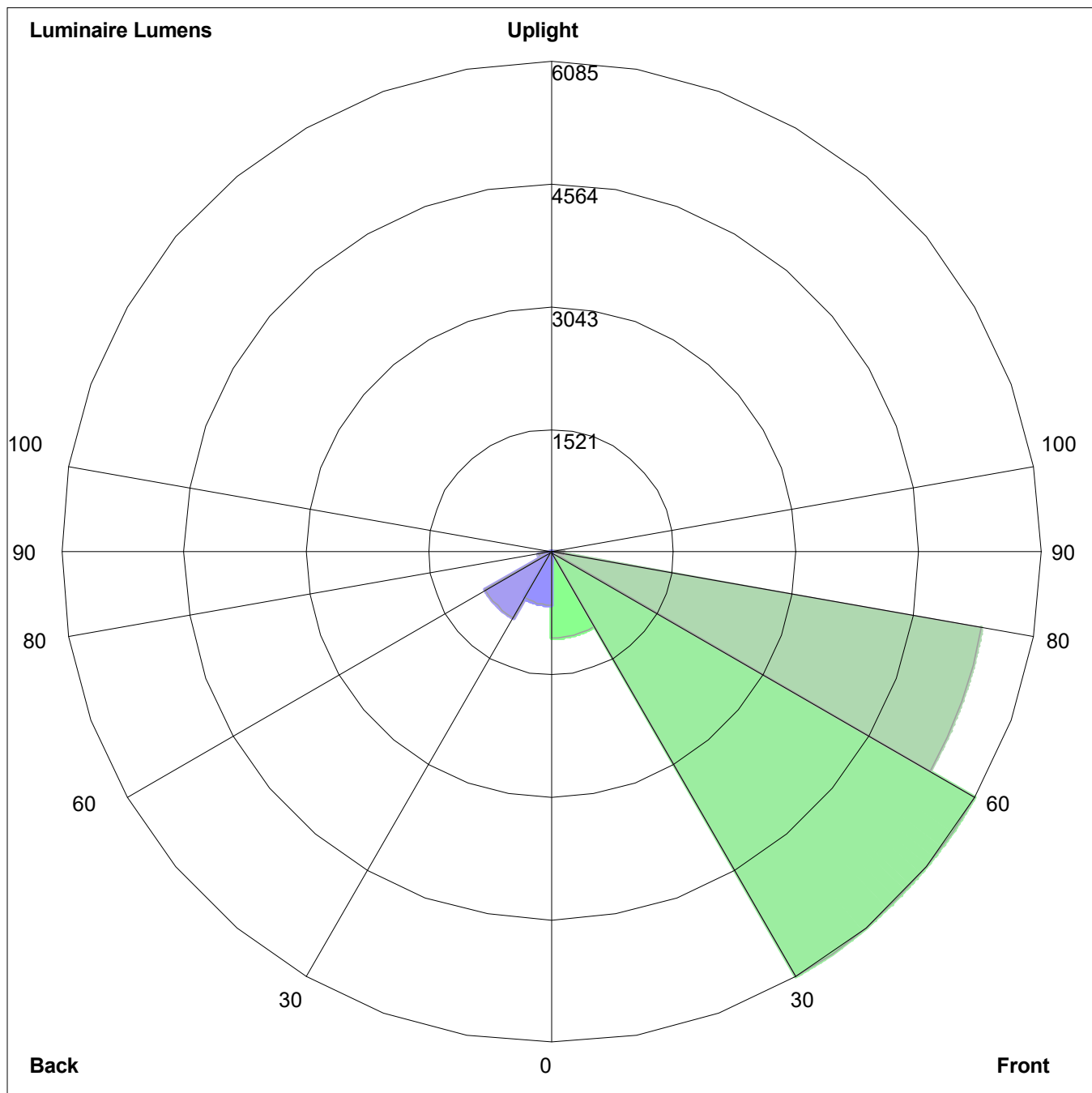


Maximum Candela = 11557.491 Located At Horizontal Angle = 350, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (350 - 170) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1068.8, Medium=6085.4, High=5433.1, Very High=148.4
Back: Low=658.9, Medium=942.6, High=153.8, Very High=18.9
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3