



IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L60-840-T3-XXX-SDGL-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL009419
[TESTLAB] ATAL-LABS
[ISSUEDATE] 2024-01-31
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] VWPX-L60-840-T3-xxx-SDGL-DIM-UNV
[LUMINAIRE] CAST ALUMINUM LED WALL PACK
[MORE] WITH TYPE III DISTRIBUTION AND
[MORE] MICRO-PRISMATIC GLASS LENS
[LAMPCAT] X4-LUXEON M
[LAMP] 8 WHITE LED
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor
[_SEARCH_MOUNTING] Wall

CHARACTERISTICS

| | |
|---|---------------------------------|
| IES Classification | Type II |
| Longitudinal Classification | Very Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 5770 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 118 |
| Total Luminaire Watts | 49 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 2432.763 |
| Maximum Candela Angle | 0H 30V |
| Maximum Candela (<90 Degrees Vertical) | 2432.763 |
| Maximum Candela Angle (<90 Degrees Vertical) | 0H 30V |
| Maximum Candela At 90 Degrees Vertical | 0 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 548.406 (9.5% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

IES ROAD REPORT**PHOTOMETRIC FILENAME : VWPX-L60-840-T3-XXX-SDGL-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 826.7 | N.A. | 14.3 |
| FM - Front-Medium (30-60) | 2185.7 | N.A. | 37.9 |
| FH - Front-High (60-80) | 901.4 | N.A. | 15.6 |
| FVH - Front-Very High (80-90) | 69.5 | N.A. | 1.2 |
| BL - Back-Low (0-30) | 523.0 | N.A. | 9.1 |
| BM - Back-Medium (30-60) | 925.5 | N.A. | 16.0 |
| BH - Back-High (60-80) | 321.0 | N.A. | 5.6 |
| BVH - Back-Very High (80-90) | 17.3 | N.A. | 0.3 |
| UL - Uplight-Low (90-100) | 0.0 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.0 | N.A. | 0.0 |
| Total | 5770.1 | N.A. | 100.0 |
| BUG Rating | B2-U0-G1 | | |

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CANDELA TABULATION

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | <u>0.0</u> | <u>2.5</u> | <u>5.0</u> | <u>10.0</u> | <u>15.0</u> | <u>20.0</u> | <u>25.0</u> | <u>30.0</u> | <u>35.0</u> | <u>40.0</u> |
| 0.0 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 |
| 2.5 | 1636.226 | 1639.823 | 1636.226 | 1647.015 | 1645.217 | 1643.419 | 1639.823 | 1632.630 | 1629.034 | 1627.236 |
| 5.0 | 1704.552 | 1704.552 | 1704.552 | 1711.745 | 1709.947 | 1706.350 | 1700.956 | 1693.764 | 1686.572 | 1681.178 |
| 7.5 | 1733.321 | 1733.321 | 1733.321 | 1738.715 | 1735.119 | 1729.725 | 1724.331 | 1724.331 | 1724.331 | 1722.533 |
| 10.0 | 1792.657 | 1792.657 | 1790.859 | 1790.859 | 1783.667 | 1778.272 | 1772.878 | 1771.080 | 1765.686 | 1762.090 |
| 12.5 | 1866.377 | 1869.973 | 1864.579 | 1862.781 | 1855.589 | 1853.791 | 1846.598 | 1841.204 | 1832.214 | 1823.224 |
| 15.0 | 1934.703 | 1938.299 | 1932.905 | 1925.713 | 1918.520 | 1914.924 | 1909.530 | 1913.126 | 1909.530 | 1893.348 |
| 17.5 | 1992.241 | 1995.837 | 1990.442 | 1979.654 | 1965.270 | 1956.279 | 1954.481 | 1961.674 | 1959.876 | 1952.683 |
| 20.0 | 2103.720 | 2101.922 | 2091.133 | 2076.749 | 2060.566 | 2037.192 | 2019.211 | 2008.423 | 1997.635 | 1990.442 |
| 22.5 | 2222.391 | 2222.391 | 2209.805 | 2190.026 | 2166.651 | 2145.075 | 2123.498 | 2085.739 | 2055.172 | 2030.000 |
| 25.0 | 2314.092 | 2315.890 | 2301.505 | 2279.929 | 2254.756 | 2224.189 | 2199.016 | 2163.055 | 2132.488 | 2083.941 |
| 27.5 | 2391.408 | 2391.408 | 2378.821 | 2351.851 | 2317.688 | 2292.515 | 2260.150 | 2224.189 | 2186.430 | 2159.459 |
| 30.0 | 2432.763 | 2429.167 | 2414.782 | 2398.600 | 2364.437 | 2339.264 | 2301.505 | 2272.736 | 2245.766 | 2208.007 |
| 32.5 | 2412.984 | 2412.984 | 2402.196 | 2387.812 | 2375.225 | 2357.245 | 2332.072 | 2308.697 | 2285.323 | 2245.766 |
| 35.0 | 2350.053 | 2346.457 | 2335.668 | 2332.072 | 2330.274 | 2332.072 | 2324.880 | 2326.678 | 2305.101 | 2274.535 |
| 37.5 | 2249.362 | 2243.968 | 2234.977 | 2240.372 | 2245.766 | 2258.352 | 2283.525 | 2301.505 | 2308.697 | 2285.323 |
| 40.0 | 2071.355 | 2069.557 | 2074.951 | 2085.739 | 2112.710 | 2148.671 | 2208.007 | 2261.948 | 2296.111 | 2292.515 |
| 42.5 | 1848.396 | 1855.589 | 1859.185 | 1878.963 | 1938.299 | 1990.442 | 2094.729 | 2195.420 | 2254.756 | 2272.736 |
| 45.0 | 1607.458 | 1621.842 | 1634.428 | 1668.591 | 1729.725 | 1805.243 | 1940.097 | 2083.941 | 2186.430 | 2238.573 |
| 47.5 | 1402.480 | 1409.672 | 1424.056 | 1461.815 | 1524.747 | 1618.246 | 1765.686 | 1936.501 | 2076.749 | 2175.642 |
| 50.0 | 1233.463 | 1240.655 | 1244.251 | 1282.010 | 1350.336 | 1447.431 | 1602.063 | 1772.878 | 1938.299 | 2078.547 |
| 52.5 | 1069.840 | 1077.033 | 1080.629 | 1121.984 | 1188.512 | 1289.203 | 1445.633 | 1620.044 | 1792.657 | 1949.087 |
| 55.0 | 927.794 | 938.583 | 942.179 | 978.140 | 1044.668 | 1139.964 | 1301.789 | 1479.796 | 1641.621 | 1794.455 |
| 57.5 | 803.729 | 810.921 | 814.517 | 845.084 | 906.218 | 1005.111 | 1152.551 | 1328.760 | 1483.392 | 1629.034 |
| 60.0 | 690.452 | 692.250 | 694.048 | 722.817 | 778.556 | 872.055 | 1012.303 | 1172.329 | 1314.375 | 1447.431 |
| 62.5 | 580.770 | 580.770 | 586.165 | 614.933 | 659.885 | 758.778 | 879.247 | 1019.495 | 1147.157 | 1276.616 |
| 65.0 | 476.484 | 476.484 | 481.878 | 516.041 | 557.396 | 647.298 | 753.383 | 872.055 | 983.534 | 1102.205 |
| 67.5 | 388.379 | 386.581 | 390.177 | 422.542 | 463.897 | 541.213 | 632.914 | 742.595 | 837.892 | 938.583 |
| 70.0 | 311.063 | 309.265 | 314.659 | 339.832 | 372.197 | 442.321 | 523.233 | 609.539 | 699.442 | 783.950 |
| 72.5 | 246.333 | 244.535 | 248.131 | 269.708 | 300.275 | 354.216 | 420.744 | 499.858 | 569.982 | 638.308 |
| 75.0 | 190.593 | 188.795 | 190.593 | 208.574 | 231.949 | 275.102 | 332.639 | 390.177 | 447.715 | 503.454 |
| 77.5 | 140.248 | 138.450 | 140.248 | 154.632 | 170.815 | 204.978 | 249.929 | 291.284 | 334.437 | 382.985 |
| 80.0 | 97.095 | 95.297 | 97.095 | 106.085 | 118.671 | 142.046 | 174.411 | 204.978 | 235.545 | 269.708 |
| 82.5 | 59.336 | 59.336 | 59.336 | 66.528 | 73.720 | 88.104 | 107.883 | 129.460 | 147.440 | 169.017 |
| 85.0 | 30.567 | 28.769 | 28.769 | 32.365 | 37.759 | 44.951 | 55.740 | 64.730 | 75.518 | 86.306 |
| 87.5 | 8.990 | 8.990 | 8.990 | 10.788 | 10.788 | 12.586 | 16.182 | 19.779 | 23.375 | 26.971 |
| 90.0 | 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>45.0</u> | <u>50.0</u> | <u>55.0</u> | <u>60.0</u> | <u>65.0</u> | <u>70.0</u> | <u>75.0</u> | <u>80.0</u> | <u>85.0</u> | <u>90.0</u> |
| 0.0 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 |
| 2.5 | 1629.034 | 1623.640 | 1614.650 | 1609.256 | 1609.256 | 1607.458 | 1600.265 | 1596.669 | 1591.275 | 1585.881 |
| 5.0 | 1679.380 | 1670.389 | 1657.803 | 1647.015 | 1641.621 | 1638.024 | 1625.438 | 1616.448 | 1607.458 | 1596.669 |
| 7.5 | 1724.331 | 1718.937 | 1711.745 | 1699.158 | 1691.966 | 1684.774 | 1670.389 | 1656.005 | 1643.419 | 1625.438 |
| 10.0 | 1758.494 | 1758.494 | 1753.100 | 1747.706 | 1742.311 | 1733.321 | 1720.735 | 1704.552 | 1682.976 | 1661.399 |
| 12.5 | 1817.830 | 1814.233 | 1808.839 | 1801.647 | 1790.859 | 1781.869 | 1765.686 | 1747.706 | 1718.937 | 1691.966 |
| 15.0 | 1878.963 | 1869.973 | 1857.387 | 1843.002 | 1830.416 | 1819.628 | 1803.445 | 1783.667 | 1751.302 | 1717.139 |
| 17.5 | 1936.501 | 1922.117 | 1907.732 | 1886.155 | 1871.771 | 1859.185 | 1841.204 | 1819.628 | 1778.272 | 1736.917 |
| 20.0 | 1977.856 | 1963.472 | 1959.876 | 1943.693 | 1916.722 | 1893.348 | 1869.973 | 1843.002 | 1796.253 | 1749.504 |
| 22.5 | 2006.625 | 1999.433 | 1995.837 | 1976.058 | 1943.693 | 1920.318 | 1898.742 | 1868.175 | 1826.820 | 1767.484 |
| 25.0 | 2047.980 | 2022.807 | 2015.615 | 2004.827 | 1977.856 | 1949.087 | 1923.915 | 1889.752 | 1848.396 | 1789.061 |
| 27.5 | 2112.710 | 2055.172 | 2042.586 | 2024.605 | 2003.029 | 1967.068 | 1940.097 | 1905.934 | 1857.387 | 1792.657 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 30.0 | 2166.651 | 2110.912 | 2067.759 | 2046.182 | 2028.202 | 1999.433 | 1958.078 | 1922.117 | 1866.377 | 1792.657 |
| 32.5 | 2208.007 | 2157.661 | 2109.114 | 2067.759 | 2049.778 | 2021.009 | 1985.048 | 1941.895 | 1875.367 | 1798.051 |
| 35.0 | 2233.179 | 2190.026 | 2136.085 | 2100.124 | 2080.345 | 2053.374 | 2004.827 | 1952.683 | 1889.752 | 1807.041 |
| 37.5 | 2249.362 | 2202.612 | 2163.055 | 2123.498 | 2101.922 | 2078.547 | 2035.394 | 1976.058 | 1904.136 | 1808.839 |
| 40.0 | 2256.554 | 2213.401 | 2173.844 | 2143.277 | 2123.498 | 2098.326 | 2053.374 | 1981.452 | 1900.540 | 1801.647 |
| 42.5 | 2258.352 | 2213.401 | 2168.450 | 2148.671 | 2116.306 | 2101.922 | 2069.557 | 1999.433 | 1914.924 | 1808.839 |
| 45.0 | 2240.372 | 2200.814 | 2157.661 | 2130.690 | 2121.700 | 2112.710 | 2085.739 | 2017.413 | 1927.511 | 1808.839 |
| 47.5 | 2200.814 | 2173.844 | 2127.094 | 2109.114 | 2116.306 | 2114.508 | 2089.335 | 2026.403 | 1929.309 | 1805.243 |
| 50.0 | 2134.287 | 2125.296 | 2091.133 | 2089.335 | 2098.326 | 2109.114 | 2103.720 | 2044.384 | 1936.501 | 1805.243 |
| 52.5 | 2038.990 | 2058.768 | 2056.970 | 2058.768 | 2078.547 | 2092.931 | 2098.326 | 2040.788 | 1931.107 | 1790.859 |
| 55.0 | 1905.934 | 1967.068 | 2006.625 | 2030.000 | 2046.182 | 2071.355 | 2078.547 | 2033.596 | 1929.309 | 1774.676 |
| 57.5 | 1749.504 | 1853.791 | 1920.318 | 1958.078 | 1986.846 | 2013.817 | 2028.202 | 1986.846 | 1886.155 | 1733.321 |
| 60.0 | 1578.689 | 1711.745 | 1799.849 | 1855.589 | 1896.944 | 1936.501 | 1954.481 | 1916.722 | 1819.628 | 1677.582 |
| 62.5 | 1407.874 | 1555.314 | 1664.995 | 1740.513 | 1805.243 | 1844.800 | 1869.973 | 1839.406 | 1747.706 | 1605.660 |
| 65.0 | 1231.665 | 1388.095 | 1504.969 | 1598.467 | 1682.976 | 1727.927 | 1772.878 | 1749.504 | 1664.995 | 1515.757 |
| 67.5 | 1066.244 | 1206.492 | 1334.154 | 1433.047 | 1535.536 | 1591.275 | 1634.428 | 1625.438 | 1542.728 | 1409.672 |
| 70.0 | 899.025 | 1017.697 | 1139.964 | 1251.443 | 1359.327 | 1416.864 | 1467.210 | 1452.825 | 1380.903 | 1258.636 |
| 72.5 | 733.605 | 836.094 | 951.169 | 1060.850 | 1159.743 | 1217.281 | 1258.636 | 1235.261 | 1170.531 | 1071.638 |
| 75.0 | 578.972 | 665.279 | 776.758 | 863.064 | 947.573 | 992.524 | 1023.091 | 997.918 | 938.583 | 857.670 |
| 77.5 | 436.926 | 505.252 | 596.953 | 667.077 | 733.605 | 756.979 | 780.354 | 751.585 | 703.038 | 641.904 |
| 80.0 | 309.265 | 357.812 | 427.936 | 476.484 | 525.031 | 534.021 | 548.406 | 526.829 | 490.868 | 451.311 |
| 82.5 | 194.190 | 231.949 | 275.102 | 305.669 | 336.236 | 357.812 | 352.418 | 334.437 | 320.053 | 289.486 |
| 85.0 | 98.893 | 120.469 | 142.046 | 158.228 | 176.209 | 188.795 | 185.199 | 174.411 | 172.613 | 154.632 |
| 87.5 | 30.567 | 37.759 | 46.749 | 50.345 | 57.538 | 64.730 | 62.932 | 57.538 | 59.336 | 53.942 |
| 90.0 | 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>95.0</u> | <u>100.0</u> | <u>105.0</u> | <u>110.0</u> | <u>115.0</u> | <u>120.0</u> | <u>125.0</u> | <u>130.0</u> | <u>135.0</u> | <u>140.0</u> |
|------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 |
| 2.5 | 1580.487 | 1575.093 | 1571.497 | 1564.304 | 1558.910 | 1555.314 | 1555.314 | 1553.516 | 1549.920 | 1548.122 |
| 5.0 | 1585.881 | 1575.093 | 1564.304 | 1549.920 | 1539.132 | 1530.141 | 1524.747 | 1521.151 | 1512.161 | 1504.969 |
| 7.5 | 1609.256 | 1591.275 | 1571.497 | 1555.314 | 1537.334 | 1524.747 | 1513.959 | 1497.776 | 1483.392 | 1470.806 |
| 10.0 | 1639.823 | 1614.650 | 1589.477 | 1567.900 | 1542.728 | 1521.151 | 1501.373 | 1476.200 | 1454.623 | 1431.249 |
| 12.5 | 1663.197 | 1634.428 | 1607.458 | 1576.891 | 1548.122 | 1519.353 | 1488.786 | 1451.027 | 1418.662 | 1386.297 |
| 15.0 | 1679.380 | 1643.419 | 1605.660 | 1575.093 | 1542.728 | 1504.969 | 1461.815 | 1418.662 | 1380.903 | 1337.750 |
| 17.5 | 1691.966 | 1648.813 | 1605.660 | 1560.708 | 1517.555 | 1472.604 | 1422.258 | 1375.509 | 1325.164 | 1271.222 |
| 20.0 | 1695.562 | 1652.409 | 1605.660 | 1549.920 | 1497.776 | 1443.835 | 1380.903 | 1312.577 | 1247.847 | 1175.925 |
| 22.5 | 1704.552 | 1652.409 | 1598.467 | 1535.536 | 1472.604 | 1404.278 | 1325.164 | 1238.857 | 1148.955 | 1060.850 |
| 25.0 | 1720.735 | 1659.601 | 1591.275 | 1521.151 | 1442.037 | 1355.730 | 1255.040 | 1148.955 | 1044.668 | 943.977 |
| 27.5 | 1724.331 | 1656.005 | 1576.891 | 1497.776 | 1407.874 | 1298.193 | 1177.723 | 1057.254 | 945.775 | 843.286 |
| 30.0 | 1717.139 | 1647.015 | 1558.910 | 1461.815 | 1361.125 | 1235.261 | 1098.609 | 963.755 | 852.276 | 764.172 |
| 32.5 | 1718.937 | 1632.630 | 1542.728 | 1438.441 | 1310.779 | 1163.339 | 1014.101 | 879.247 | 778.556 | 710.230 |
| 35.0 | 1713.543 | 1620.044 | 1521.151 | 1398.884 | 1256.838 | 1093.215 | 933.188 | 803.729 | 715.624 | 665.279 |
| 37.5 | 1709.947 | 1611.054 | 1494.180 | 1355.730 | 1192.108 | 1017.697 | 850.478 | 730.009 | 663.481 | 629.318 |
| 40.0 | 1699.158 | 1591.275 | 1461.815 | 1308.981 | 1132.772 | 936.785 | 773.162 | 659.885 | 607.741 | 589.761 |
| 42.5 | 1697.360 | 1573.295 | 1434.845 | 1256.838 | 1062.648 | 857.670 | 697.644 | 598.751 | 559.194 | 552.002 |
| 45.0 | 1684.774 | 1555.314 | 1398.884 | 1201.098 | 987.130 | 773.162 | 627.520 | 541.213 | 510.646 | 514.243 |
| 47.5 | 1663.197 | 1526.545 | 1359.327 | 1150.753 | 920.602 | 703.038 | 560.992 | 489.070 | 467.493 | 476.484 |
| 50.0 | 1656.005 | 1508.565 | 1325.164 | 1102.205 | 857.670 | 641.904 | 507.050 | 444.119 | 426.138 | 436.926 |
| 52.5 | 1636.226 | 1479.796 | 1285.606 | 1055.456 | 803.729 | 587.963 | 458.503 | 395.571 | 379.389 | 395.571 |
| 55.0 | 1614.650 | 1443.835 | 1244.251 | 1005.111 | 755.181 | 543.011 | 415.350 | 356.014 | 343.428 | 352.418 |
| 57.5 | 1566.102 | 1391.691 | 1192.108 | 947.573 | 699.442 | 496.262 | 375.793 | 320.053 | 305.669 | 305.669 |
| 60.0 | 1508.565 | 1326.962 | 1121.984 | 882.843 | 641.904 | 451.311 | 338.034 | 287.688 | 267.910 | 262.515 |
| 62.5 | 1438.441 | 1256.838 | 1051.860 | 816.315 | 584.367 | 409.956 | 305.669 | 255.323 | 233.747 | 226.554 |
| 65.0 | 1362.923 | 1177.723 | 974.544 | 746.191 | 530.425 | 372.197 | 271.506 | 224.756 | 203.180 | 194.190 |

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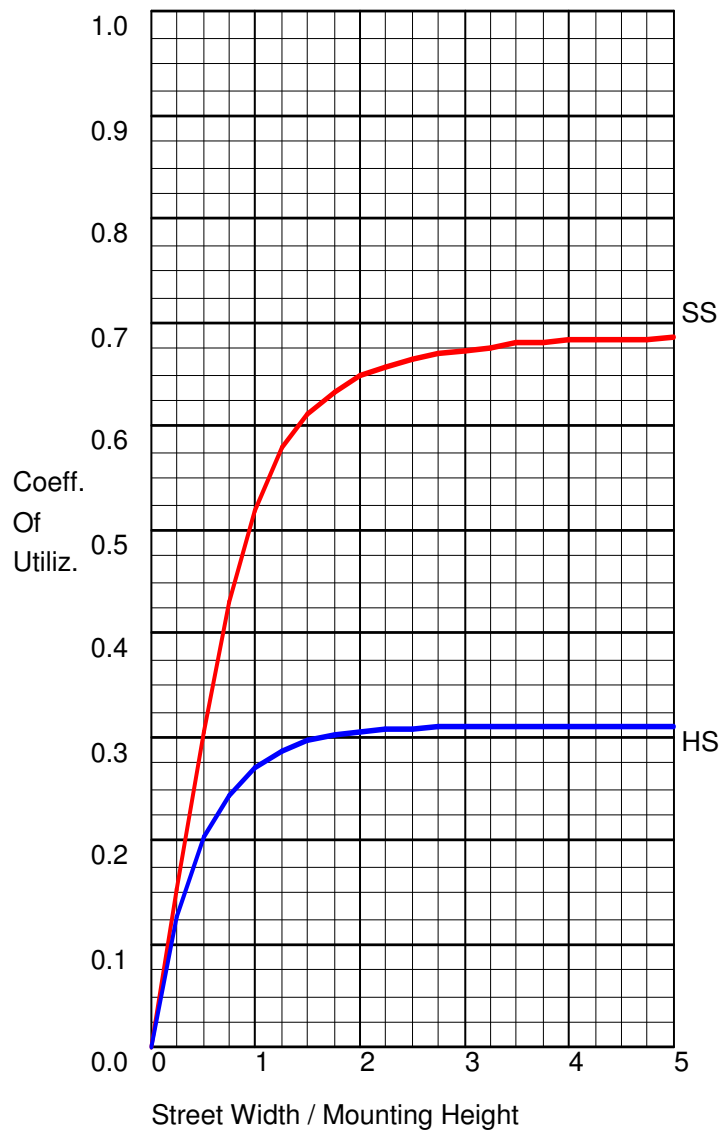
CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| 67.5 | 1255.040 | 1082.427 | 888.237 | 676.067 | 472.887 | 329.043 | 237.343 | 194.190 | 172.613 | 160.027 |
| 70.0 | 1118.388 | 961.957 | 789.344 | 591.559 | 411.754 | 282.294 | 201.382 | 161.825 | 136.652 | 115.075 |
| 72.5 | 949.371 | 818.113 | 670.673 | 501.656 | 345.226 | 231.949 | 158.228 | 120.469 | 91.701 | 62.932 |
| 75.0 | 762.374 | 656.289 | 541.213 | 404.561 | 273.304 | 169.017 | 97.095 | 70.124 | 32.365 | 12.586 |
| 77.5 | 568.184 | 503.454 | 415.350 | 305.669 | 188.795 | 75.518 | 37.759 | 12.586 | 3.596 | 1.798 |
| 80.0 | 400.965 | 357.812 | 294.880 | 190.593 | 41.355 | 14.384 | 5.394 | 1.798 | 1.798 | 0.000 |
| 82.5 | 258.919 | 230.151 | 188.795 | 80.912 | 12.586 | 3.596 | 1.798 | 1.798 | 0.000 | 0.000 |
| 85.0 | 138.450 | 124.066 | 91.701 | 17.981 | 3.596 | 1.798 | 1.798 | 1.798 | 0.000 | 0.000 |
| 87.5 | 52.143 | 43.153 | 12.586 | 1.798 | 1.798 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Vert. Horizontal Angles

| | <u>145.0</u> | <u>150.0</u> | <u>155.0</u> | <u>160.0</u> | <u>165.0</u> | <u>170.0</u> | <u>175.0</u> | <u>180.0</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 | 1589.477 |
| 2.5 | 1546.324 | 1548.122 | 1544.526 | 1546.324 | 1549.920 | 1546.324 | 1540.930 | 1535.536 |
| 5.0 | 1501.373 | 1497.776 | 1490.584 | 1492.382 | 1495.978 | 1490.584 | 1488.786 | 1483.392 |
| 7.5 | 1460.017 | 1451.027 | 1436.643 | 1433.047 | 1433.047 | 1431.249 | 1427.652 | 1429.451 |
| 10.0 | 1411.470 | 1397.086 | 1377.307 | 1359.327 | 1352.134 | 1346.740 | 1341.346 | 1344.942 |
| 12.5 | 1357.529 | 1334.154 | 1303.587 | 1280.212 | 1265.828 | 1249.645 | 1251.443 | 1255.040 |
| 15.0 | 1289.203 | 1249.645 | 1210.088 | 1170.531 | 1150.753 | 1129.176 | 1130.974 | 1134.570 |
| 17.5 | 1204.694 | 1145.358 | 1095.013 | 1042.870 | 1010.505 | 979.938 | 976.342 | 979.938 |
| 20.0 | 1096.811 | 1023.091 | 954.765 | 902.622 | 864.863 | 832.498 | 821.709 | 821.709 |
| 22.5 | 967.351 | 895.429 | 836.094 | 782.152 | 751.585 | 730.009 | 715.624 | 712.028 |
| 25.0 | 848.680 | 789.344 | 740.797 | 706.634 | 685.057 | 674.269 | 667.077 | 665.279 |
| 27.5 | 765.970 | 722.817 | 690.452 | 668.875 | 656.289 | 652.693 | 652.693 | 650.894 |
| 30.0 | 713.826 | 683.259 | 663.481 | 652.693 | 654.491 | 656.289 | 661.683 | 658.087 |
| 32.5 | 674.269 | 659.885 | 654.491 | 659.885 | 670.673 | 677.865 | 685.057 | 685.057 |
| 35.0 | 641.904 | 643.702 | 650.894 | 665.279 | 677.865 | 692.250 | 704.836 | 706.634 |
| 37.5 | 620.328 | 629.318 | 643.702 | 659.885 | 674.269 | 688.654 | 701.240 | 703.038 |
| 40.0 | 595.155 | 607.741 | 627.520 | 647.298 | 665.279 | 683.259 | 697.644 | 697.644 |
| 42.5 | 562.790 | 582.569 | 613.135 | 638.308 | 661.683 | 679.663 | 692.250 | 695.846 |
| 45.0 | 535.819 | 562.790 | 595.155 | 614.933 | 636.510 | 656.289 | 668.875 | 674.269 |
| 47.5 | 505.252 | 530.425 | 555.598 | 577.174 | 589.761 | 607.741 | 613.135 | 616.731 |
| 50.0 | 467.493 | 485.474 | 501.656 | 516.041 | 519.637 | 534.021 | 535.819 | 535.819 |
| 52.5 | 415.350 | 429.734 | 440.522 | 444.119 | 445.917 | 451.311 | 453.109 | 449.513 |
| 55.0 | 363.206 | 372.197 | 375.793 | 375.793 | 373.995 | 379.389 | 382.985 | 375.793 |
| 57.5 | 307.467 | 311.063 | 314.659 | 314.659 | 316.457 | 318.255 | 320.053 | 318.255 |
| 60.0 | 264.313 | 262.515 | 267.910 | 267.910 | 269.708 | 271.506 | 269.708 | 269.708 |
| 62.5 | 224.756 | 224.756 | 224.756 | 222.958 | 219.362 | 219.362 | 219.362 | 219.362 |
| 65.0 | 190.593 | 185.199 | 174.411 | 165.421 | 163.623 | 156.430 | 156.430 | 156.430 |
| 67.5 | 147.440 | 133.056 | 115.075 | 98.893 | 79.114 | 46.749 | 37.759 | 35.961 |
| 70.0 | 93.499 | 66.528 | 32.365 | 19.779 | 14.384 | 8.990 | 8.990 | 8.990 |
| 72.5 | 28.769 | 12.586 | 7.192 | 5.394 | 3.596 | 3.596 | 3.596 | 3.596 |
| 75.0 | 5.394 | 3.596 | 1.798 | 1.798 | 1.798 | 1.798 | 1.798 | 1.798 |
| 77.5 | 1.798 | 1.798 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 80.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 82.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 85.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 87.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

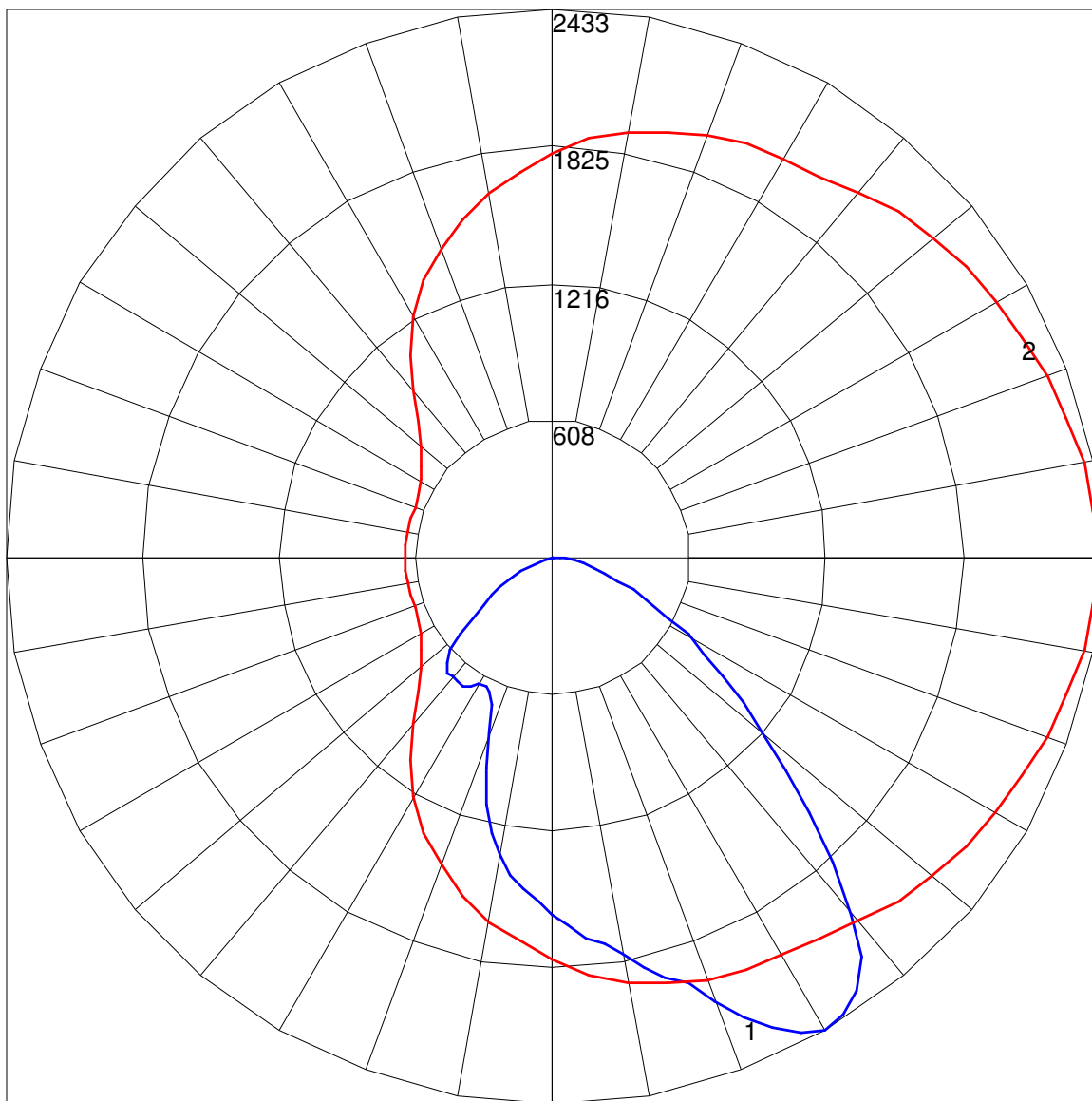
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

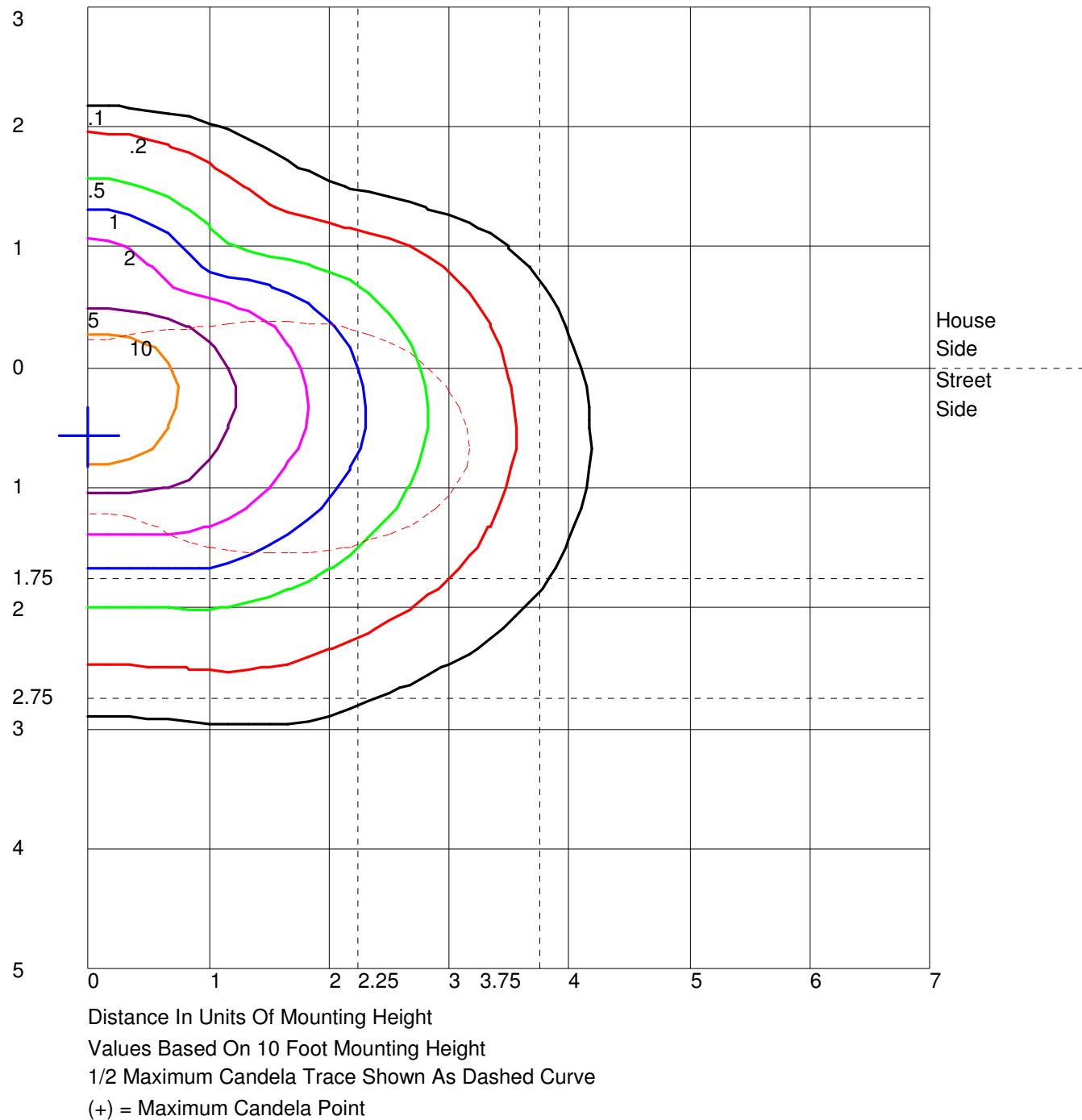
| | Lumens | Percent Of Luminaire |
|----------------------|--------|----------------------|
| Downward Street Side | 3983.3 | 69.0 |
| Downward House Side | 1786.8 | 31.0 |
| Downward Total | 5770.1 | 100.0 |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| Total Flux | 5770.1 | 100.0 |

POLAR GRAPH

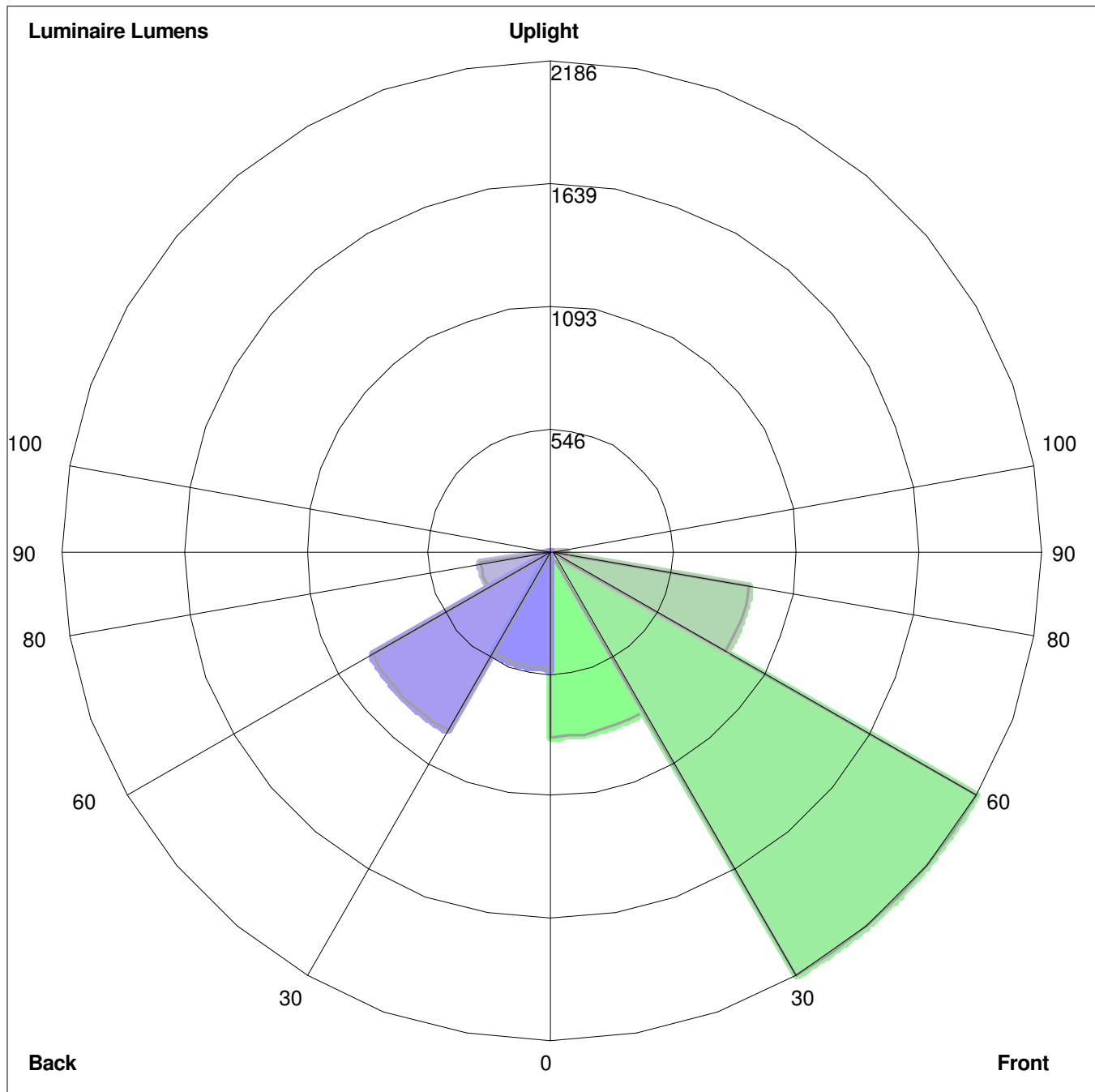


Maximum Candela = 2432.763 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=826.7, Medium=2185.7, High=901.4, Very High=69.5
Back: Low=523.0, Medium=925.5, High=321.0, Very High=17.3
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1