

IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L30-940-XXX-DIM-UNV-W-XXX_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM W6CR_Angela-XW_(V18)_measured
[TESTLAB] LEDIL Inc
[TESTDATE] 21 Aug 2024
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] W6CR-xx-L30-940-xxx-DIM-UNV-W-xxx
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED
[MORE] CYLINDER WITH WIDE DIST
[LAMPCAT] BL VERO 18
[LAMP] LED
[OTHER] Absolute Photometry

CHARACTERISTICS

| | |
|---|--------------------------------|
| IES Classification | Type VS |
| Longitudinal Classification | Very Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2985 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 111 |
| Total Luminaire Watts | 27 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 2499.433 |
| Maximum Candela Angle | 90H 0V |
| Maximum Candela (<90 Degrees Vertical) | 2499.433 |
| Maximum Candela Angle (<90 Degrees Vertical) | 90H 0V |
| Maximum Candela At 90 Degrees Vertical | .831 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 14.603 (0.5% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L30-940-XXX-DIM-UNV-W-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 797.6 | N.A. | 26.7 |
| FM - Front-Medium (30-60) | 595.3 | N.A. | 19.9 |
| FH - Front-High (60-80) | 96.4 | N.A. | 3.2 |
| FVH - Front-Very High (80-90) | 2.7 | N.A. | 0.1 |
| BL - Back-Low (0-30) | 797.6 | N.A. | 26.7 |
| BM - Back-Medium (30-60) | 595.3 | N.A. | 19.9 |
| BH - Back-High (60-80) | 96.4 | N.A. | 3.2 |
| BVH - Back-Very High (80-90) | 2.7 | N.A. | 0.1 |
| UL - Uplight-Low (90-100) | 0.8 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.1 | N.A. | 0.0 |
| Total | 2984.9 | N.A. | 100.0 |
| BUG Rating | B2-U1-G0 | | |

IES ROAD REPORT

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CANDELA TABULATION

| Vert. Angles | Horizontal Angles | | | | |
|-----------------|-------------------|-------------|-------------|-------------|-------------|
| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
| 0 | 2499.433 | 2499.433 | 2499.433 | 2499.433 | 2499.433 |
| 1 | 2498.031 | 2498.842 | 2498.352 | 2497.131 | 2497.631 |
| 2 | 2496.470 | 2496.280 | 2495.279 | 2493.617 | 2493.277 |
| 3 | 2492.496 | 2492.526 | 2490.995 | 2489.003 | 2486.661 |
| 4 | 2485.600 | 2486.441 | 2484.649 | 2481.226 | 2479.635 |
| 5 | 2473.679 | 2474.240 | 2472.318 | 2468.735 | 2467.924 |
| 6 | 2458.145 | 2457.395 | 2453.361 | 2449.498 | 2449.297 |
| 7 | 2434.704 | 2433.203 | 2427.047 | 2424.155 | 2422.613 |
| 8 | 2401.644 | 2401.244 | 2395.479 | 2393.067 | 2390.785 |
| 9 | 2362.659 | 2362.729 | 2358.676 | 2355.753 | 2354.152 |
| 10 | 2319.460 | 2320.001 | 2316.007 | 2314.296 | 2313.785 |
| 11 | 2271.727 | 2273.299 | 2270.366 | 2270.016 | 2269.996 |
| 12 | 2222.513 | 2224.405 | 2222.603 | 2223.904 | 2223.304 |
| 13 | 2174.209 | 2175.551 | 2176.592 | 2177.352 | 2175.941 |
| 14 | 2125.335 | 2127.217 | 2129.960 | 2131.141 | 2127.938 |
| 15 | 2076.862 | 2079.684 | 2082.677 | 2084.228 | 2080.595 |
| 16 | 2029.359 | 2033.523 | 2035.755 | 2038.447 | 2036.085 |
| 17 | 1984.559 | 1988.512 | 1989.433 | 1994.117 | 1992.015 |
| 18 | 1940.028 | 1944.813 | 1945.894 | 1951.199 | 1948.926 |
| 19 | 1900.153 | 1903.966 | 1905.667 | 1909.861 | 1908.330 |
| 20 | 1863.389 | 1865.171 | 1867.283 | 1871.146 | 1867.913 |
| 21 | 1829.098 | 1829.239 | 1831.561 | 1835.214 | 1830.520 |
| 22 | 1798.161 | 1794.067 | 1798.341 | 1800.092 | 1798.281 |
| 23 | 1769.305 | 1763.599 | 1767.903 | 1768.444 | 1768.984 |
| 24 | 1740.839 | 1736.435 | 1738.757 | 1738.787 | 1739.247 |
| 25 | 1713.544 | 1710.271 | 1709.050 | 1709.060 | 1709.941 |
| 26 | 1685.179 | 1681.666 | 1677.652 | 1678.002 | 1677.132 |
| 27 | 1651.959 | 1646.324 | 1641.239 | 1639.998 | 1641.479 |
| 28 | 1607.239 | 1600.603 | 1593.566 | 1592.695 | 1595.178 |
| 29 | 1548.466 | 1542.570 | 1531.240 | 1531.380 | 1534.253 |
| 30 | 1469.965 | 1464.660 | 1451.328 | 1452.959 | 1455.171 |
| 31 | 1371.706 | 1366.782 | 1354.180 | 1356.633 | 1358.414 |
| 32 | 1256.913 | 1254.020 | 1242.960 | 1247.795 | 1249.496 |
| 33 | 1131.029 | 1130.169 | 1122.892 | 1129.048 | 1131.169 |
| 34 | 1002.714 | 1004.285 | 1000.682 | 1008.239 | 1008.689 |
| 35 | 883.396 | 883.716 | 883.937 | 892.785 | 892.054 |
| 36 | 777.090 | 776.970 | 781.414 | 790.272 | 790.593 |
| 37 | 689.001 | 689.401 | 695.577 | 704.395 | 703.314 |
| 38 | 619.698 | 622.131 | 628.867 | 635.593 | 635.022 |
| 39 | 570.935 | 574.157 | 579.352 | 584.777 | 584.597 |
| 40 | 537.625 | 540.247 | 543.880 | 547.173 | 547.533 |
| 41 | 514.804 | 515.955 | 518.517 | 520.439 | 520.459 |
| 42 | 497.358 | 497.769 | 499.480 | 500.551 | 499.720 |
| 43 | 482.685 | 482.675 | 483.806 | 484.176 | 482.985 |
| 44 | 468.813 | 468.813 | 469.343 | 469.333 | 468.172 |
| 45 | 454.870 | 454.960 | 455.310 | 455.220 | 454.029 |
| 46 | 440.637 | 440.827 | 440.937 | 440.867 | 439.906 |
| 47 | 425.674 | 425.954 | 426.104 | 426.074 | 425.193 |
| 48 | 410.560 | 410.780 | 410.890 | 410.860 | 410.130 |
| 49 | 395.106 | 395.346 | 395.486 | 395.316 | 394.486 |
| 50 | 379.462 | 379.462 | 379.582 | 379.522 | 378.721 |
| 51 | 363.628 | 363.628 | 363.688 | 363.618 | 362.937 |
| 52 | 347.623 | 347.783 | 347.773 | 347.693 | 346.953 |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L30-940-XXX-DIM-UNV-W-XXX_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-----|---------|---------|---------|---------|---------|
| 53 | 331.949 | 332.029 | 331.949 | 331.889 | 330.948 |
| 54 | 316.345 | 316.245 | 316.165 | 315.905 | 314.924 |
| 55 | 300.571 | 300.281 | 300.191 | 299.730 | 298.779 |
| 56 | 283.826 | 283.596 | 283.495 | 282.955 | 282.064 |
| 57 | 266.911 | 266.670 | 266.580 | 265.910 | 264.989 |
| 58 | 250.366 | 250.035 | 249.805 | 249.155 | 248.284 |
| 59 | 233.941 | 233.681 | 233.310 | 232.760 | 231.959 |
| 60 | 217.956 | 217.646 | 217.406 | 216.765 | 216.095 |
| 61 | 202.312 | 202.072 | 201.852 | 201.341 | 200.701 |
| 62 | 187.319 | 187.069 | 186.788 | 186.378 | 185.767 |
| 63 | 172.726 | 172.556 | 172.255 | 171.905 | 171.324 |
| 64 | 158.603 | 158.453 | 158.253 | 157.872 | 157.482 |
| 65 | 145.381 | 145.091 | 144.981 | 144.690 | 144.420 |
| 66 | 132.259 | 132.309 | 131.969 | 131.909 | 131.549 |
| 67 | 119.788 | 119.908 | 119.718 | 119.598 | 119.298 |
| 68 | 108.087 | 108.087 | 108.017 | 107.907 | 107.767 |
| 69 | 96.837 | 96.877 | 96.767 | 96.737 | 96.677 |
| 70 | 86.218 | 86.318 | 86.218 | 86.218 | 86.208 |
| 71 | 76.269 | 76.339 | 76.239 | 76.289 | 76.299 |
| 72 | 66.920 | 67.030 | 66.930 | 66.990 | 67.070 |
| 73 | 58.192 | 58.263 | 58.222 | 58.303 | 58.333 |
| 74 | 50.135 | 50.175 | 50.185 | 50.295 | 50.255 |
| 75 | 42.668 | 42.729 | 42.759 | 42.849 | 42.789 |
| 76 | 35.772 | 35.792 | 35.862 | 35.962 | 35.922 |
| 77 | 29.497 | 29.527 | 29.637 | 29.707 | 29.677 |
| 78 | 23.831 | 23.811 | 23.982 | 24.002 | 23.992 |
| 79 | 18.747 | 18.767 | 18.927 | 18.997 | 18.947 |
| 80 | 14.363 | 14.353 | 14.513 | 14.603 | 14.563 |
| 81 | 10.529 | 10.580 | 10.720 | 10.810 | 10.760 |
| 82 | 7.126 | 7.196 | 7.297 | 7.307 | 7.357 |
| 83 | 4.924 | 4.944 | 5.135 | 5.245 | 5.375 |
| 84 | 4.564 | 4.574 | 4.564 | 4.564 | 4.544 |
| 85 | 4.234 | 4.244 | 4.234 | 4.224 | 4.204 |
| 86 | 3.793 | 3.793 | 3.783 | 3.783 | 3.753 |
| 87 | 3.193 | 3.203 | 3.183 | 3.183 | 3.163 |
| 88 | 2.442 | 2.422 | 2.422 | 2.422 | 2.402 |
| 89 | 1.491 | 1.491 | 1.491 | 1.481 | 1.461 |
| 90 | 0.651 | 0.651 | 0.731 | 0.801 | 0.831 |
| 91 | 0.571 | 0.571 | 0.571 | 0.571 | 0.561 |
| 92 | 0.581 | 0.591 | 0.591 | 0.591 | 0.591 |
| 93 | 0.621 | 0.631 | 0.631 | 0.631 | 0.631 |
| 94 | 0.651 | 0.661 | 0.671 | 0.671 | 0.661 |
| 95 | 0.701 | 0.701 | 0.711 | 0.701 | 0.701 |
| 96 | 0.741 | 0.751 | 0.751 | 0.751 | 0.741 |
| 97 | 0.791 | 0.801 | 0.801 | 0.791 | 0.791 |
| 98 | 0.841 | 0.841 | 0.841 | 0.841 | 0.831 |
| 99 | 0.891 | 0.891 | 0.891 | 0.901 | 0.891 |
| 100 | 0.931 | 0.941 | 0.931 | 0.951 | 0.931 |
| 101 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 103 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 104 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 106 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 108 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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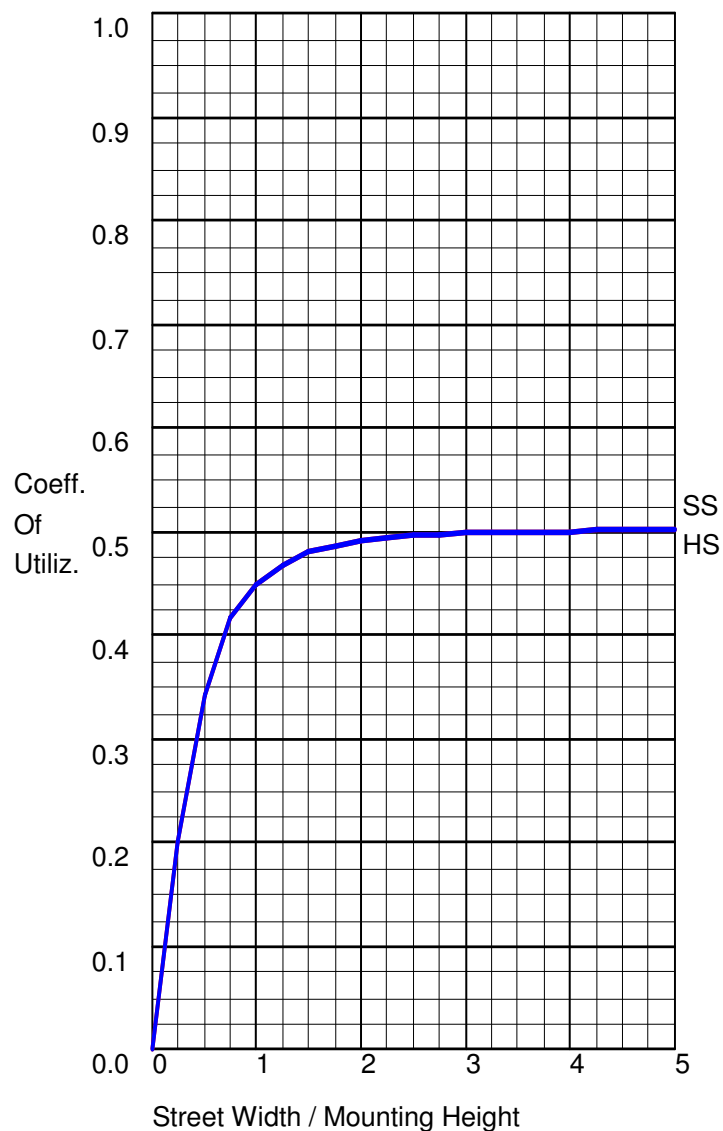
CANDELA TABULATION - (Cont.)

| | | | | | |
|-----|-------|-------|-------|-------|-------|
| 109 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 111 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 113 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 114 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 116 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 118 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 119 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 121 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 123 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 124 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 126 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 128 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 129 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 131 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 133 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 134 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 136 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 138 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 139 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 141 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 143 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 144 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 146 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 148 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 149 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 151 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 153 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 154 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 156 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 158 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 159 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 161 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 163 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 164 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L30-940-XXX-DIM-UNV-W-XXX_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-----|-------|-------|-------|-------|-------|
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 166 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 168 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 169 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 171 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 173 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 174 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 176 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 178 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 179 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

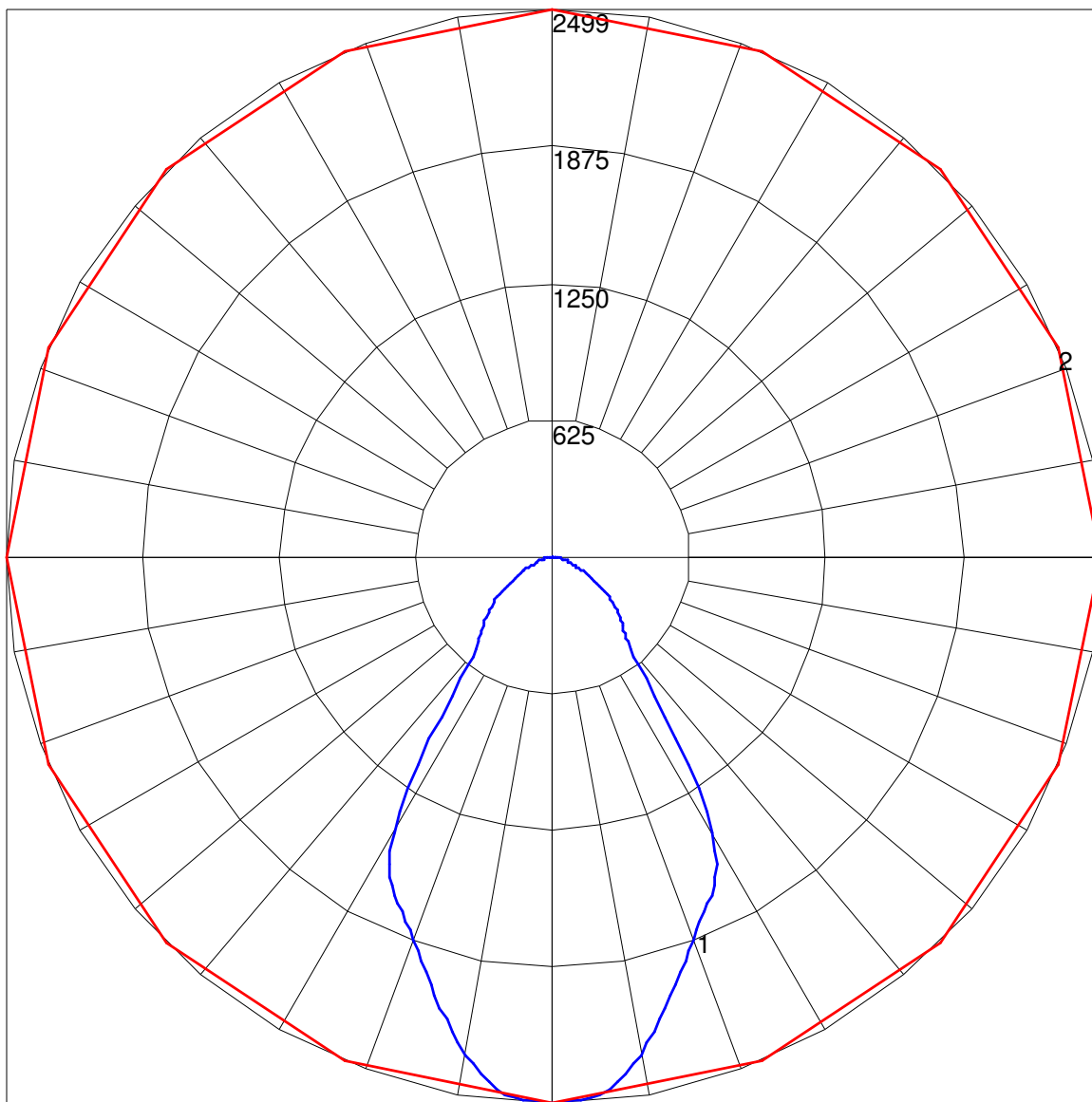
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

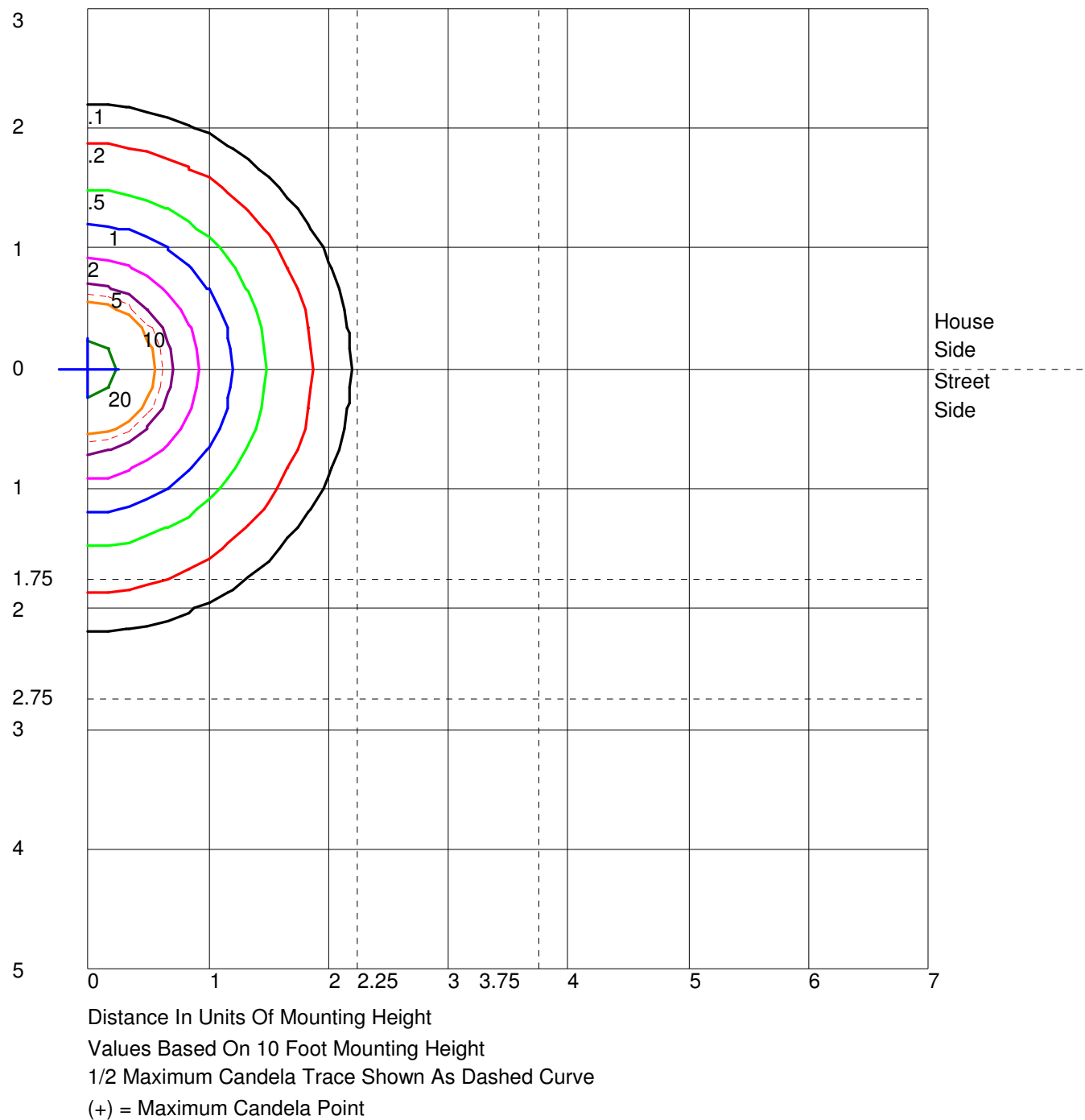
| | Lumens | Percent Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 1492.0 | 50.0 |
| Downward House Side | 1492.0 | 50.0 |
| Downward Total | 2984.0 | 100.0 |
| Upward Street Side | 0.4 | 0.0 |
| Upward House Side | 0.4 | 0.0 |
| Upward Total | 0.8 | 0.0 |
| Total Flux | 2984.8 | 100.0 |

POLAR GRAPH

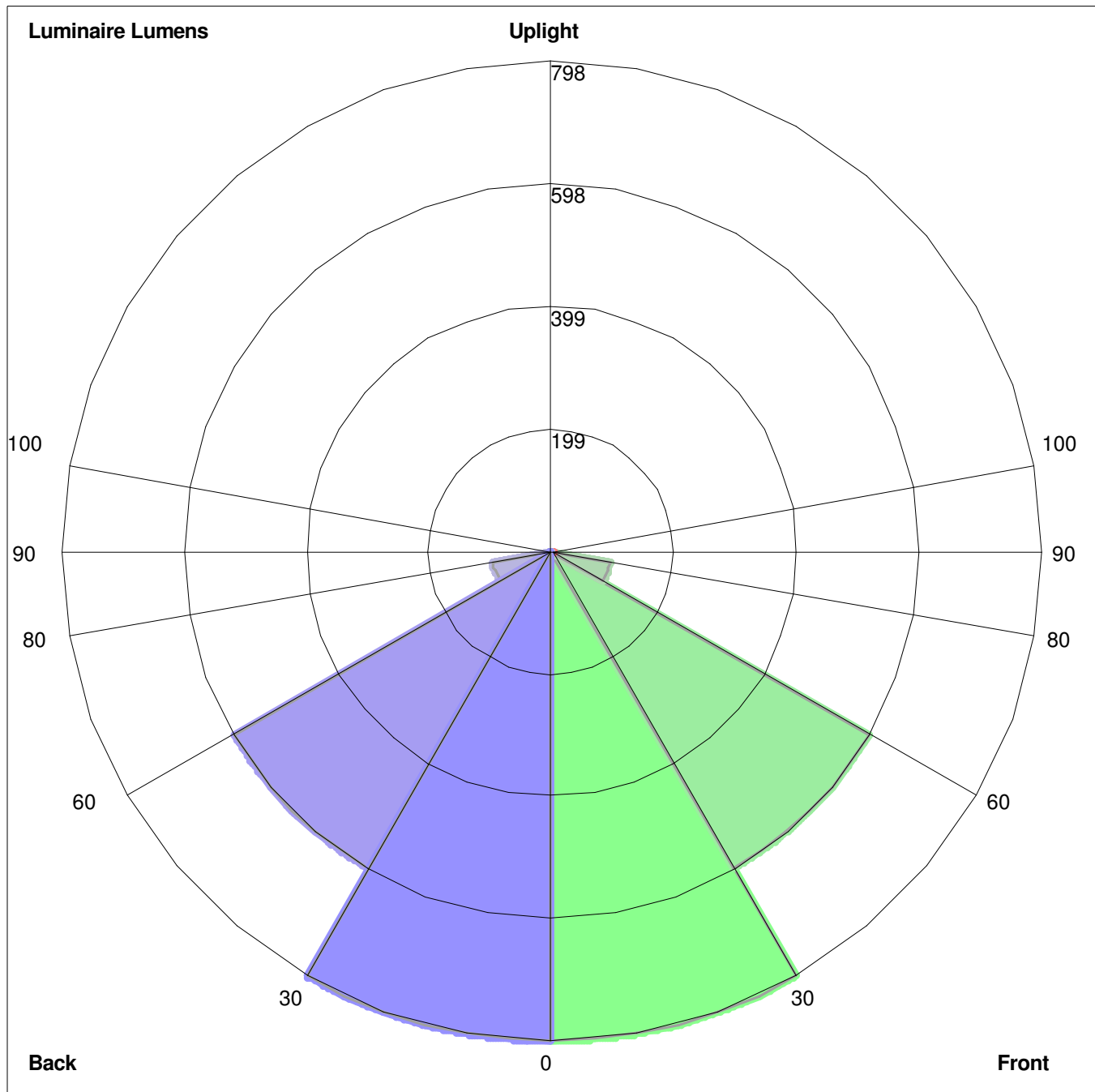


Maximum Candela = 2499.433 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=797.6, Medium=595.3, High=96.4, Very High=2.7
Back: Low=797.6, Medium=595.3, High=96.4, Very High=2.7
Uplight: Low=0.8, High=0.1

BUG Rating : B2-U1-G0