

IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L20-835-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-L20-835-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 | 2169 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 108 |
| Total Luminaire Watts | 20.1 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 1816.359 |
| Maximum Candela Angle | 90H 0V |
| Maximum Candela (<90 Degrees Vertical) | 1816.359 |
| Maximum Candela Angle (<90 Degrees Vertical) | 90H 0V |
| Maximum Candela At 90 Degrees Vertical | .604 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 10.612 (0.5% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L20-835-XXX-DIM-UNV-W-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 579.6 | N.A. | 26.7 |
| FM - Front-Medium (30-60) | 432.6 | N.A. | 19.9 |
| FH - Front-High (60-80) | 70.1 | N.A. | 3.2 |
| FVH - Front-Very High (80-90) | 2.0 | N.A. | 0.1 |
| BL - Back-Low (0-30) | 579.6 | N.A. | 26.7 |
| BM - Back-Medium (30-60) | 432.6 | N.A. | 19.9 |
| BH - Back-High (60-80) | 70.1 | N.A. | 3.2 |
| BVH - Back-Very High (80-90) | 2.0 | N.A. | 0.1 |
| UL - Uplight-Low (90-100) | 0.6 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | < 0.05 | N.A. | 0.0 |
| Total | 2169.2 | N.A. | 100.0 |
| BUG Rating | B2-U1-G0 | | |

IES ROAD REPORT
PHOTOMETRIC FILENAME : W6CR-XX-L20-835-XXX-DIM-UNV-W-XXX_.IES

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 | 1816.359 | 1816.359 | 1816.359 | 1816.359 | 1816.359 |
| 1 | 1815.341 | 1815.930 | 1815.574 | 1814.686 | 1815.050 |
| 2 | 1814.206 | 1814.068 | 1813.341 | 1812.133 | 1811.886 |
| 3 | 1811.319 | 1811.340 | 1810.228 | 1808.780 | 1807.078 |
| 4 | 1806.307 | 1806.918 | 1805.616 | 1803.129 | 1801.972 |
| 5 | 1797.644 | 1798.052 | 1796.655 | 1794.051 | 1793.462 |
| 6 | 1786.356 | 1785.810 | 1782.879 | 1780.071 | 1779.926 |
| 7 | 1769.321 | 1768.230 | 1763.756 | 1761.654 | 1760.534 |
| 8 | 1745.296 | 1745.005 | 1740.815 | 1739.062 | 1737.404 |
| 9 | 1716.965 | 1717.016 | 1714.070 | 1711.946 | 1710.782 |
| 10 | 1685.572 | 1685.965 | 1683.063 | 1681.819 | 1681.448 |
| 11 | 1650.884 | 1652.026 | 1649.895 | 1649.640 | 1649.626 |
| 12 | 1615.119 | 1616.494 | 1615.185 | 1616.130 | 1615.694 |
| 13 | 1580.017 | 1580.992 | 1581.748 | 1582.301 | 1581.275 |
| 14 | 1544.500 | 1545.867 | 1547.860 | 1548.718 | 1546.391 |
| 15 | 1509.273 | 1511.325 | 1513.499 | 1514.627 | 1511.986 |
| 16 | 1474.753 | 1477.779 | 1479.401 | 1481.357 | 1479.641 |
| 17 | 1442.196 | 1445.069 | 1445.738 | 1449.142 | 1447.615 |
| 18 | 1409.835 | 1413.312 | 1414.098 | 1417.953 | 1416.302 |
| 19 | 1380.857 | 1383.629 | 1384.865 | 1387.913 | 1386.800 |
| 20 | 1354.141 | 1355.436 | 1356.971 | 1359.778 | 1357.429 |
| 21 | 1329.222 | 1329.324 | 1331.011 | 1333.666 | 1330.255 |
| 22 | 1306.739 | 1303.764 | 1306.870 | 1308.143 | 1306.826 |
| 23 | 1285.769 | 1281.623 | 1284.751 | 1285.143 | 1285.536 |
| 24 | 1265.083 | 1261.882 | 1263.570 | 1263.592 | 1263.926 |
| 25 | 1245.247 | 1242.869 | 1241.982 | 1241.989 | 1242.629 |
| 26 | 1224.634 | 1222.081 | 1219.164 | 1219.419 | 1218.786 |
| 27 | 1200.493 | 1196.398 | 1192.703 | 1191.801 | 1192.877 |
| 28 | 1167.994 | 1163.172 | 1158.058 | 1157.426 | 1159.229 |
| 29 | 1125.283 | 1120.999 | 1112.765 | 1112.867 | 1114.955 |
| 30 | 1068.236 | 1064.381 | 1054.693 | 1055.878 | 1057.486 |
| 31 | 996.831 | 993.252 | 984.095 | 985.877 | 987.171 |
| 32 | 913.409 | 911.307 | 903.270 | 906.783 | 908.020 |
| 33 | 821.929 | 821.303 | 816.015 | 820.489 | 822.031 |
| 34 | 728.681 | 729.823 | 727.204 | 732.696 | 733.023 |
| 35 | 641.972 | 642.204 | 642.364 | 648.794 | 648.263 |
| 36 | 564.718 | 564.631 | 567.860 | 574.298 | 574.530 |
| 37 | 500.703 | 500.994 | 505.482 | 511.890 | 511.104 |
| 38 | 450.340 | 452.108 | 457.003 | 461.891 | 461.476 |
| 39 | 414.903 | 417.245 | 421.020 | 424.963 | 424.832 |
| 40 | 390.696 | 392.602 | 395.242 | 397.635 | 397.897 |
| 41 | 374.112 | 374.949 | 376.811 | 378.208 | 378.222 |
| 42 | 361.435 | 361.733 | 362.977 | 363.755 | 363.151 |
| 43 | 350.771 | 350.764 | 351.586 | 351.855 | 350.990 |
| 44 | 340.690 | 340.690 | 341.076 | 341.068 | 340.225 |
| 45 | 330.558 | 330.623 | 330.878 | 330.813 | 329.947 |
| 46 | 320.215 | 320.353 | 320.433 | 320.382 | 319.684 |
| 47 | 309.341 | 309.544 | 309.653 | 309.632 | 308.992 |
| 48 | 298.358 | 298.518 | 298.598 | 298.576 | 298.045 |
| 49 | 287.127 | 287.302 | 287.403 | 287.280 | 286.676 |
| 50 | 275.758 | 275.758 | 275.846 | 275.802 | 275.220 |
| 51 | 264.251 | 264.251 | 264.295 | 264.244 | 263.750 |
| 52 | 252.621 | 252.737 | 252.730 | 252.672 | 252.134 |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L20-835-XXX-DIM-UNV-W-XXX_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-----|---------|---------|---------|---------|---------|
| 53 | 241.230 | 241.289 | 241.230 | 241.187 | 240.503 |
| 54 | 229.891 | 229.818 | 229.760 | 229.571 | 228.858 |
| 55 | 218.427 | 218.217 | 218.151 | 217.816 | 217.125 |
| 56 | 206.259 | 206.091 | 206.019 | 205.626 | 204.979 |
| 57 | 193.966 | 193.792 | 193.726 | 193.239 | 192.570 |
| 58 | 181.943 | 181.703 | 181.536 | 181.063 | 180.430 |
| 59 | 170.007 | 169.818 | 169.549 | 169.149 | 168.567 |
| 60 | 158.391 | 158.165 | 157.991 | 157.525 | 157.038 |
| 61 | 147.022 | 146.848 | 146.688 | 146.317 | 145.851 |
| 62 | 136.126 | 135.944 | 135.741 | 135.442 | 134.999 |
| 63 | 125.521 | 125.398 | 125.179 | 124.925 | 124.503 |
| 64 | 115.258 | 115.149 | 115.004 | 114.727 | 114.443 |
| 65 | 105.650 | 105.439 | 105.359 | 105.148 | 104.951 |
| 66 | 96.114 | 96.150 | 95.903 | 95.859 | 95.597 |
| 67 | 87.051 | 87.138 | 87.000 | 86.913 | 86.695 |
| 68 | 78.548 | 78.548 | 78.497 | 78.417 | 78.315 |
| 69 | 70.372 | 70.402 | 70.322 | 70.300 | 70.256 |
| 70 | 62.655 | 62.728 | 62.655 | 62.655 | 62.648 |
| 71 | 55.425 | 55.476 | 55.403 | 55.440 | 55.447 |
| 72 | 48.632 | 48.712 | 48.639 | 48.682 | 48.741 |
| 73 | 42.289 | 42.340 | 42.311 | 42.369 | 42.391 |
| 74 | 36.434 | 36.463 | 36.470 | 36.550 | 36.521 |
| 75 | 31.008 | 31.051 | 31.073 | 31.138 | 31.095 |
| 76 | 25.996 | 26.011 | 26.061 | 26.134 | 26.105 |
| 77 | 21.435 | 21.457 | 21.537 | 21.588 | 21.566 |
| 78 | 17.319 | 17.304 | 17.428 | 17.442 | 17.435 |
| 79 | 13.624 | 13.638 | 13.754 | 13.805 | 13.769 |
| 80 | 10.438 | 10.430 | 10.547 | 10.612 | 10.583 |
| 81 | 7.652 | 7.688 | 7.790 | 7.856 | 7.819 |
| 82 | 5.179 | 5.230 | 5.302 | 5.310 | 5.346 |
| 83 | 3.579 | 3.593 | 3.731 | 3.811 | 3.906 |
| 84 | 3.317 | 3.324 | 3.317 | 3.317 | 3.302 |
| 85 | 3.077 | 3.084 | 3.077 | 3.069 | 3.055 |
| 86 | 2.757 | 2.757 | 2.749 | 2.749 | 2.728 |
| 87 | 2.320 | 2.328 | 2.313 | 2.313 | 2.298 |
| 88 | 1.775 | 1.760 | 1.760 | 1.760 | 1.746 |
| 89 | 1.084 | 1.084 | 1.084 | 1.076 | 1.062 |
| 90 | 0.473 | 0.473 | 0.531 | 0.582 | 0.604 |
| 91 | 0.415 | 0.415 | 0.415 | 0.415 | 0.407 |
| 92 | 0.422 | 0.429 | 0.429 | 0.429 | 0.429 |
| 93 | 0.451 | 0.458 | 0.458 | 0.458 | 0.458 |
| 94 | 0.473 | 0.480 | 0.487 | 0.487 | 0.480 |
| 95 | 0.509 | 0.509 | 0.516 | 0.509 | 0.509 |
| 96 | 0.538 | 0.546 | 0.546 | 0.546 | 0.538 |
| 97 | 0.575 | 0.582 | 0.582 | 0.575 | 0.575 |
| 98 | 0.611 | 0.611 | 0.611 | 0.611 | 0.604 |
| 99 | 0.647 | 0.647 | 0.647 | 0.655 | 0.647 |
| 100 | 0.676 | 0.684 | 0.676 | 0.691 | 0.676 |
| 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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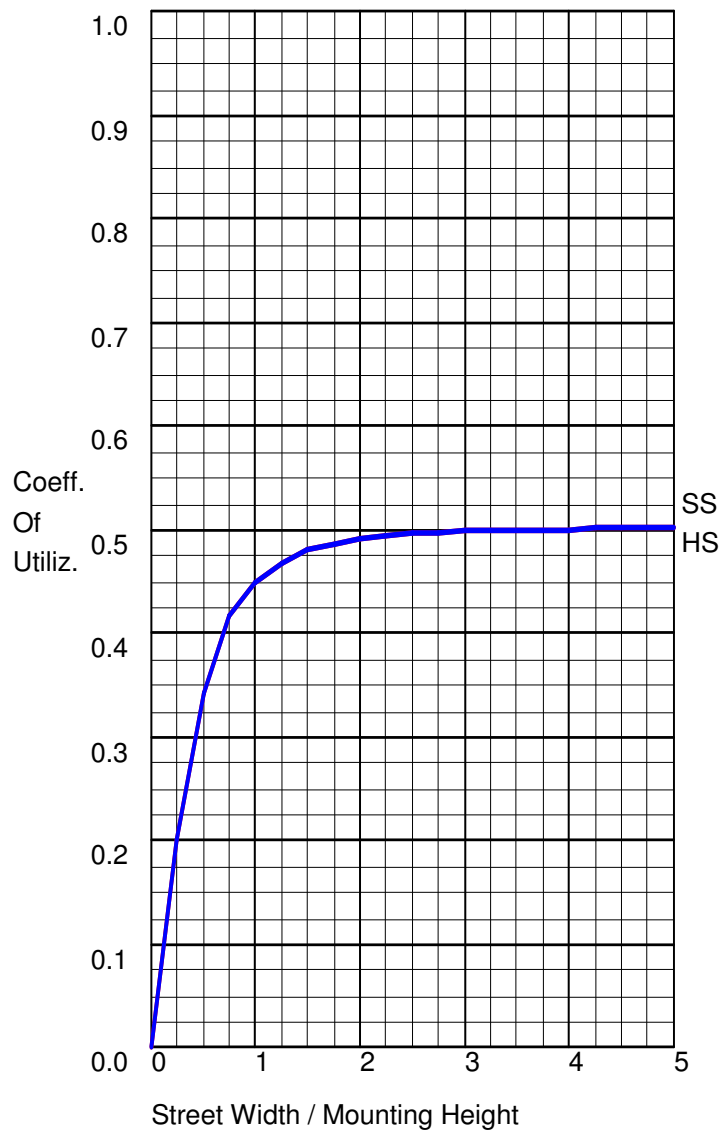
CANDELA TABULATION - (Cont.)

| | | | | | |
|-----|-------|-------|-------|-------|-------|
| 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-L20-835-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 |

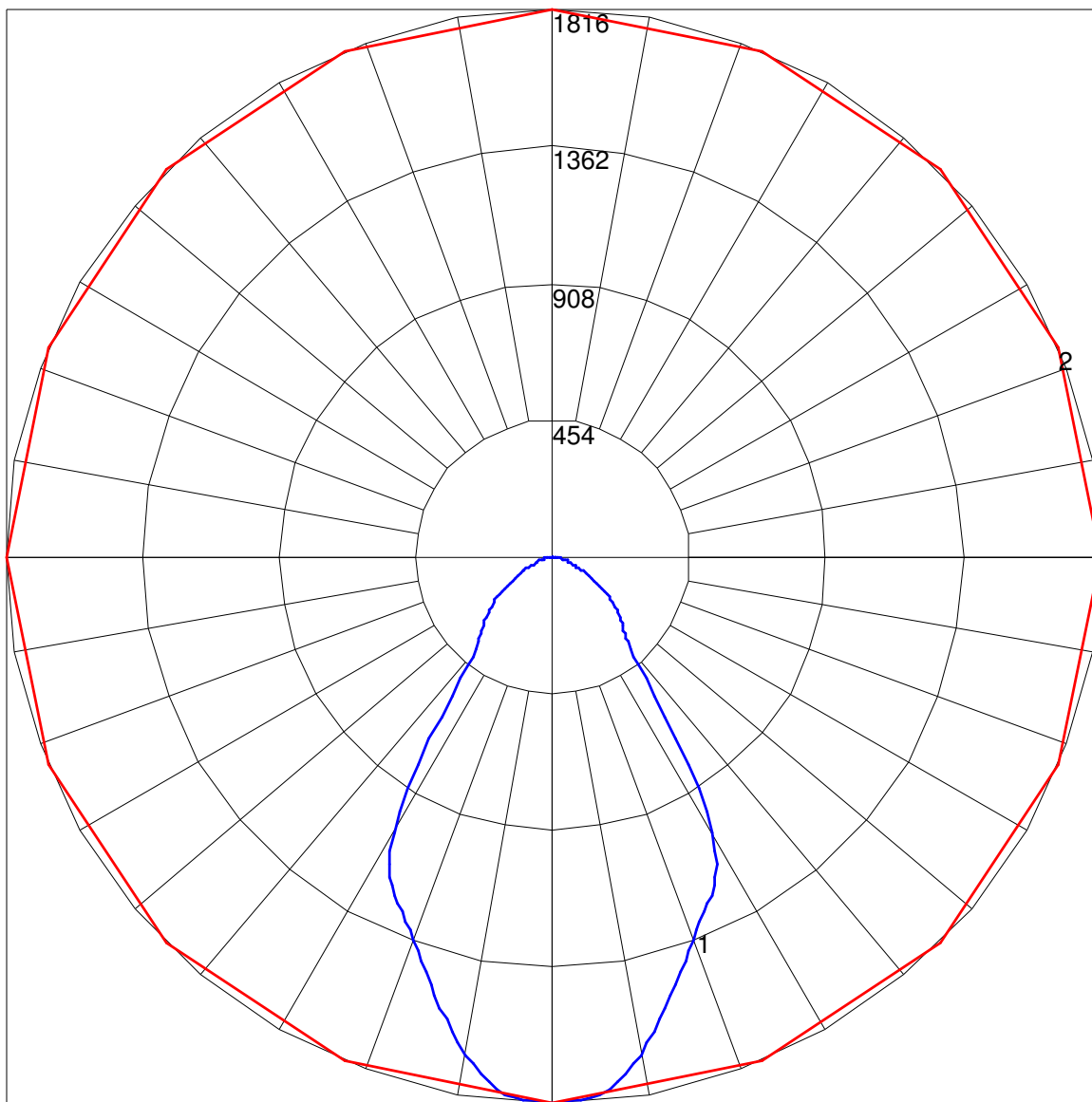
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

| | Lumens | Percent Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 1084.3 | 50.0 |
| Downward House Side | 1084.3 | 50.0 |
| Downward Total | 2168.6 | 100.0 |
| Upward Street Side | 0.3 | 0.0 |
| Upward House Side | 0.3 | 0.0 |
| Upward Total | 0.6 | 0.0 |
| Total Flux | 2169.2 | 100.0 |

POLAR GRAPH



Maximum Candela = 1816.359 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.)

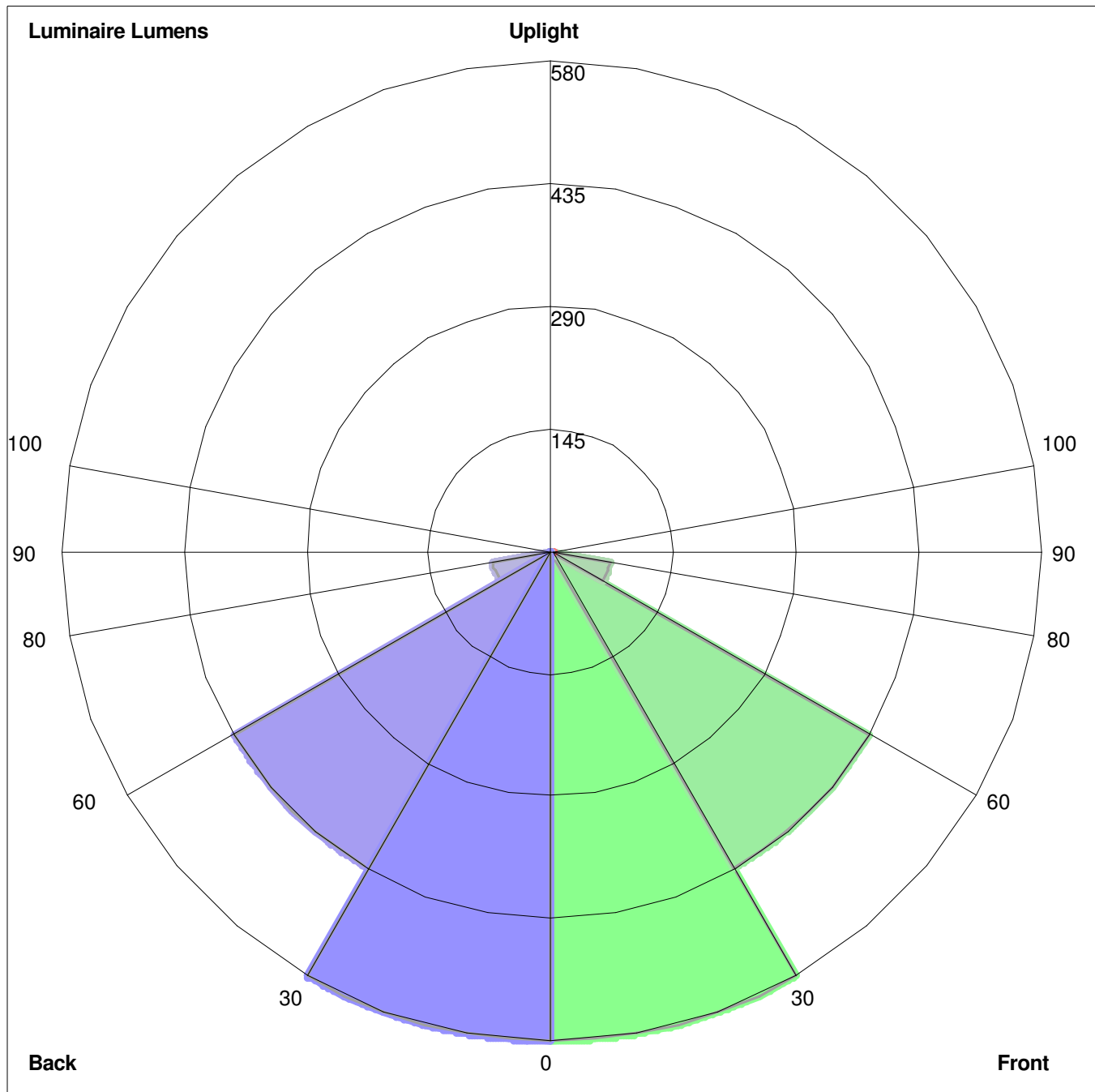
Distance In Units Of Mounting Height

Values Based On 10 Foot Mounting Height

1/2 Maximum Candela Trace Shown As Dashed Curve

(+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=579.6, Medium=432.6, High=70.1, Very High=2.0
Back: Low=579.6, Medium=432.6, High=70.1, Very High=2.0
Uplight: Low=0.6, High=0.0

BUG Rating : B2-U1-G0