

IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-940-XXX-DIM-UNV-M-XXX_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM W6CR_Angela-W_(V22)_measured
[TESTLAB] LEDIL Inc
[TESTDATE] 21 Aug 2024
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] W6CR-xx-L50-940-xxx-DIM-UNV-M-xxx
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED
[MORE] CYLINDER WITH MEDIUM DIST
[LAMPCAT] BL VERO 22
[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 | 4527 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 101 |
| Total Luminaire Watts | 45 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 9099.672 |
| Maximum Candela Angle | 90H 6V |
| Maximum Candela (<90 Degrees Vertical) | 9099.672 |
| Maximum Candela Angle (<90 Degrees Vertical) | 90H 6V |
| Maximum Candela At 90 Degrees Vertical | .35 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 7.561 (0.2% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L50-940-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 1872.2 | N.A. | 41.4 |
| FM - Front-Medium (30-60) | 365.6 | N.A. | 8.1 |
| FH - Front-High (60-80) | 24.2 | N.A. | 0.5 |
| FVH - Front-Very High (80-90) | 1.1 | N.A. | 0.0 |
| BL - Back-Low (0-30) | 1872.2 | N.A. | 41.4 |
| BM - Back-Medium (30-60) | 365.6 | N.A. | 8.1 |
| BH - Back-High (60-80) | 24.2 | N.A. | 0.5 |
| BVH - Back-Very High (80-90) | 1.1 | N.A. | 0.0 |
| UL - Uplight-Low (90-100) | 0.3 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | < 0.05 | N.A. | 0.0 |
| Total | 4526.5 | N.A. | 100.0 |
| BUG Rating | B3-U1-G0 | | |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L50-940-XXX-DIM-UNV-M-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 | 8564.141 | 8564.141 | 8564.141 | 8564.141 | 8564.141 |
| 1 | 8560.049 | 8568.644 | 8584.771 | 8601.992 | 8607.211 |
| 2 | 8518.044 | 8543.131 | 8608.565 | 8670.453 | 8691.645 |
| 3 | 8451.865 | 8508.079 | 8651.056 | 8775.944 | 8818.328 |
| 4 | 8358.667 | 8458.012 | 8694.156 | 8886.120 | 8957.152 |
| 5 | 8250.971 | 8395.530 | 8717.585 | 8964.987 | 9062.110 |
| 6 | 8124.106 | 8309.680 | 8703.542 | 8983.152 | 9099.672 |
| 7 | 7977.858 | 8190.923 | 8631.141 | 8929.646 | 9048.418 |
| 8 | 7809.505 | 8038.438 | 8496.806 | 8792.785 | 8899.629 |
| 9 | 7617.754 | 7844.725 | 8294.619 | 8574.304 | 8672.187 |
| 10 | 7393.659 | 7616.705 | 8035.000 | 8285.551 | 8379.936 |
| 11 | 7141.374 | 7349.936 | 7719.320 | 7930.711 | 8015.907 |
| 12 | 6865.842 | 7044.007 | 7360.174 | 7532.756 | 7603.225 |
| 13 | 6564.797 | 6707.621 | 6973.690 | 7111.099 | 7161.029 |
| 14 | 6232.153 | 6348.552 | 6569.498 | 6669.755 | 6703.529 |
| 15 | 5874.347 | 5973.311 | 6148.707 | 6215.434 | 6240.627 |
| 16 | 5502.848 | 5585.518 | 5720.219 | 5761.311 | 5781.149 |
| 17 | 5130.330 | 5192.675 | 5296.173 | 5316.604 | 5337.447 |
| 18 | 4756.352 | 4809.964 | 4889.744 | 4893.212 | 4907.102 |
| 19 | 4396.628 | 4435.286 | 4499.243 | 4490.952 | 4497.235 |
| 20 | 4053.077 | 4082.241 | 4128.445 | 4115.726 | 4115.209 |
| 21 | 3730.322 | 3748.944 | 3783.782 | 3771.414 | 3767.169 |
| 22 | 3439.668 | 3445.099 | 3472.392 | 3459.278 | 3458.974 |
| 23 | 3181.890 | 3179.076 | 3198.291 | 3182.971 | 3187.595 |
| 24 | 2952.775 | 2946.948 | 2960.868 | 2937.729 | 2948.165 |
| 25 | 2751.044 | 2742.190 | 2747.803 | 2724.131 | 2734.020 |
| 26 | 2568.968 | 2559.673 | 2555.991 | 2534.023 | 2532.669 |
| 27 | 2400.175 | 2386.361 | 2376.913 | 2356.025 | 2352.937 |
| 28 | 2234.210 | 2220.077 | 2200.208 | 2178.270 | 2181.982 |
| 29 | 2063.439 | 2050.218 | 2027.763 | 2002.402 | 2004.152 |
| 30 | 1891.861 | 1868.082 | 1845.277 | 1817.543 | 1821.422 |
| 31 | 1699.166 | 1678.796 | 1652.020 | 1627.541 | 1621.836 |
| 32 | 1493.647 | 1476.121 | 1454.183 | 1434.025 | 1426.799 |
| 33 | 1278.893 | 1266.707 | 1255.023 | 1242.929 | 1242.898 |
| 34 | 1065.706 | 1058.906 | 1058.556 | 1061.751 | 1069.860 |
| 35 | 862.363 | 861.891 | 872.084 | 889.960 | 904.185 |
| 36 | 683.360 | 684.714 | 705.374 | 730.127 | 744.838 |
| 37 | 526.905 | 537.691 | 558.077 | 589.113 | 596.491 |
| 38 | 410.795 | 414.553 | 439.488 | 460.635 | 467.055 |
| 39 | 309.777 | 318.814 | 344.190 | 363.801 | 371.544 |
| 40 | 244.512 | 252.377 | 269.431 | 283.047 | 287.687 |
| 41 | 201.199 | 208.805 | 218.907 | 228.902 | 234.729 |
| 42 | 171.928 | 176.842 | 183.216 | 190.945 | 191.751 |
| 43 | 151.511 | 153.504 | 158.525 | 161.826 | 162.556 |
| 44 | 136.404 | 137.545 | 140.573 | 141.972 | 141.927 |
| 45 | 124.325 | 125.146 | 127.094 | 127.444 | 127.413 |
| 46 | 114.101 | 114.892 | 116.231 | 116.292 | 116.414 |
| 47 | 104.912 | 105.703 | 106.768 | 106.860 | 107.042 |
| 48 | 96.743 | 97.397 | 98.340 | 98.553 | 98.720 |
| 49 | 89.379 | 89.851 | 90.825 | 91.053 | 91.205 |
| 50 | 82.640 | 83.020 | 83.963 | 84.313 | 84.405 |
| 51 | 76.554 | 76.859 | 77.817 | 78.213 | 78.334 |
| 52 | 71.108 | 71.397 | 72.264 | 72.705 | 72.766 |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L50-940-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-----|--------|--------|--------|--------|--------|
| 53 | 66.240 | 66.513 | 67.350 | 67.837 | 67.867 |
| 54 | 61.919 | 62.178 | 62.923 | 63.319 | 63.334 |
| 55 | 57.979 | 58.131 | 58.861 | 59.181 | 59.241 |
| 56 | 54.206 | 54.343 | 55.012 | 55.286 | 55.347 |
| 57 | 50.752 | 50.889 | 51.437 | 51.650 | 51.741 |
| 58 | 47.725 | 47.846 | 48.318 | 48.455 | 48.531 |
| 59 | 44.956 | 45.047 | 45.443 | 45.534 | 45.580 |
| 60 | 42.461 | 42.491 | 42.841 | 42.887 | 42.917 |
| 61 | 40.179 | 40.164 | 40.453 | 40.468 | 40.453 |
| 62 | 38.034 | 38.003 | 38.247 | 38.232 | 38.186 |
| 63 | 36.026 | 35.995 | 36.193 | 36.147 | 36.086 |
| 64 | 34.139 | 34.063 | 34.246 | 34.170 | 34.093 |
| 65 | 32.313 | 32.237 | 32.374 | 32.268 | 32.177 |
| 66 | 30.488 | 30.442 | 30.518 | 30.427 | 30.321 |
| 67 | 28.754 | 28.708 | 28.738 | 28.632 | 28.556 |
| 68 | 27.065 | 27.004 | 27.034 | 26.882 | 26.791 |
| 69 | 25.391 | 25.315 | 25.315 | 25.133 | 25.057 |
| 70 | 23.703 | 23.611 | 23.596 | 23.444 | 23.322 |
| 71 | 22.060 | 21.953 | 21.907 | 21.755 | 21.649 |
| 72 | 20.417 | 20.280 | 20.234 | 20.082 | 19.975 |
| 73 | 18.743 | 18.621 | 18.576 | 18.424 | 18.302 |
| 74 | 17.085 | 16.993 | 16.933 | 16.781 | 16.704 |
| 75 | 15.472 | 15.396 | 15.320 | 15.198 | 15.137 |
| 76 | 13.875 | 13.814 | 13.723 | 13.631 | 13.601 |
| 77 | 12.293 | 12.262 | 12.201 | 12.110 | 12.080 |
| 78 | 10.726 | 10.680 | 10.665 | 10.604 | 10.604 |
| 79 | 9.143 | 9.128 | 9.128 | 9.113 | 9.098 |
| 80 | 7.531 | 7.531 | 7.546 | 7.561 | 7.546 |
| 81 | 5.751 | 5.766 | 5.735 | 5.735 | 5.705 |
| 82 | 3.317 | 3.286 | 3.393 | 3.393 | 3.438 |
| 83 | 1.445 | 1.460 | 1.704 | 1.841 | 1.947 |
| 84 | 1.339 | 1.339 | 1.339 | 1.339 | 1.324 |
| 85 | 1.232 | 1.232 | 1.232 | 1.217 | 1.202 |
| 86 | 1.111 | 1.095 | 1.095 | 1.080 | 1.080 |
| 87 | 0.928 | 0.928 | 0.928 | 0.913 | 0.913 |
| 88 | 0.730 | 0.730 | 0.730 | 0.730 | 0.715 |
| 89 | 0.502 | 0.502 | 0.502 | 0.487 | 0.487 |
| 90 | 0.289 | 0.319 | 0.335 | 0.350 | 0.335 |
| 91 | 0.289 | 0.289 | 0.289 | 0.289 | 0.274 |
| 92 | 0.304 | 0.304 | 0.304 | 0.289 | 0.289 |
| 93 | 0.304 | 0.304 | 0.304 | 0.289 | 0.289 |
| 94 | 0.304 | 0.304 | 0.304 | 0.304 | 0.289 |
| 95 | 0.319 | 0.304 | 0.319 | 0.304 | 0.289 |
| 96 | 0.319 | 0.319 | 0.319 | 0.304 | 0.319 |
| 97 | 0.335 | 0.319 | 0.319 | 0.304 | 0.319 |
| 98 | 0.350 | 0.319 | 0.335 | 0.304 | 0.319 |
| 99 | 0.350 | 0.319 | 0.335 | 0.319 | 0.319 |
| 100 | 0.350 | 0.335 | 0.335 | 0.319 | 0.319 |
| 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 |

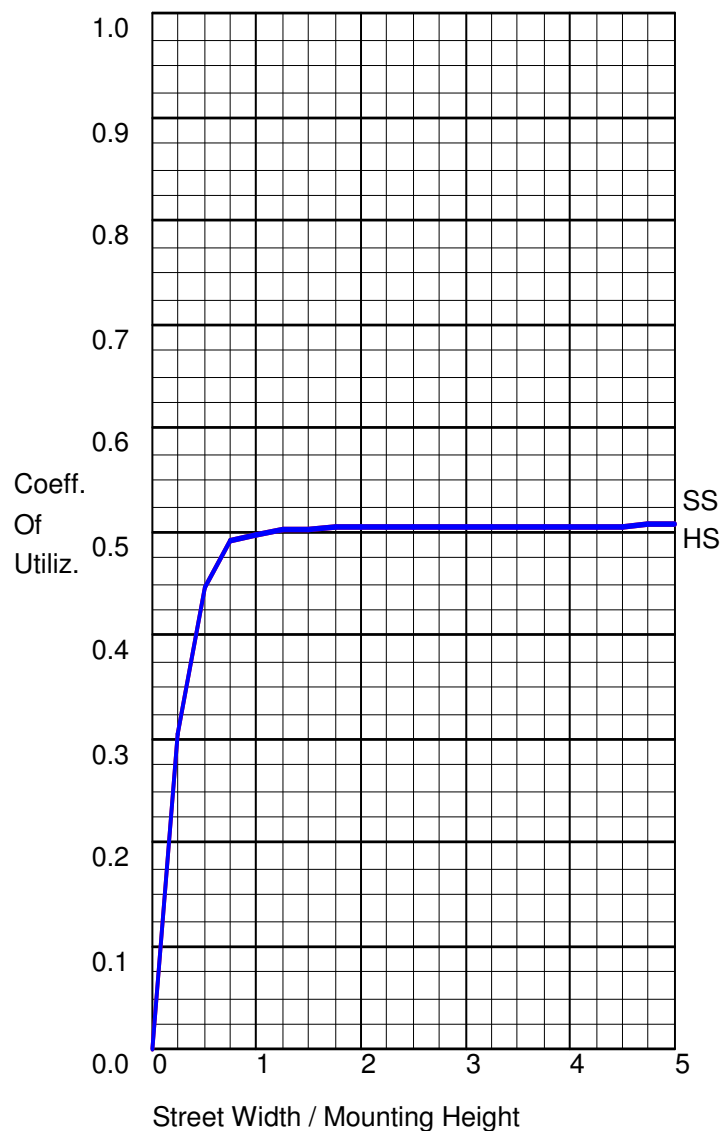
IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L50-940-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-----|-------|-------|-------|-------|-------|
| 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-L50-940-XXX-DIM-UNV-M-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 |

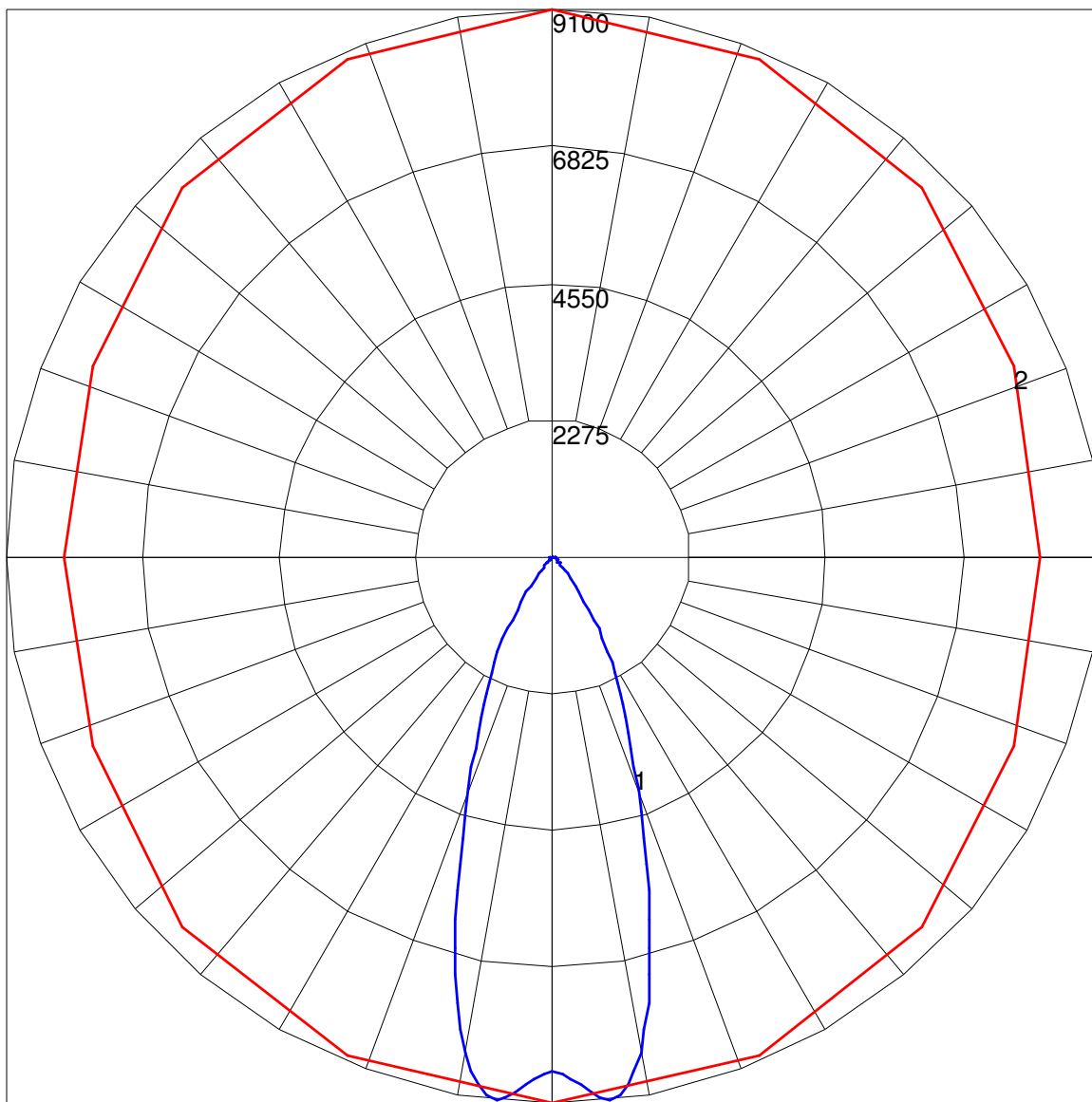
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

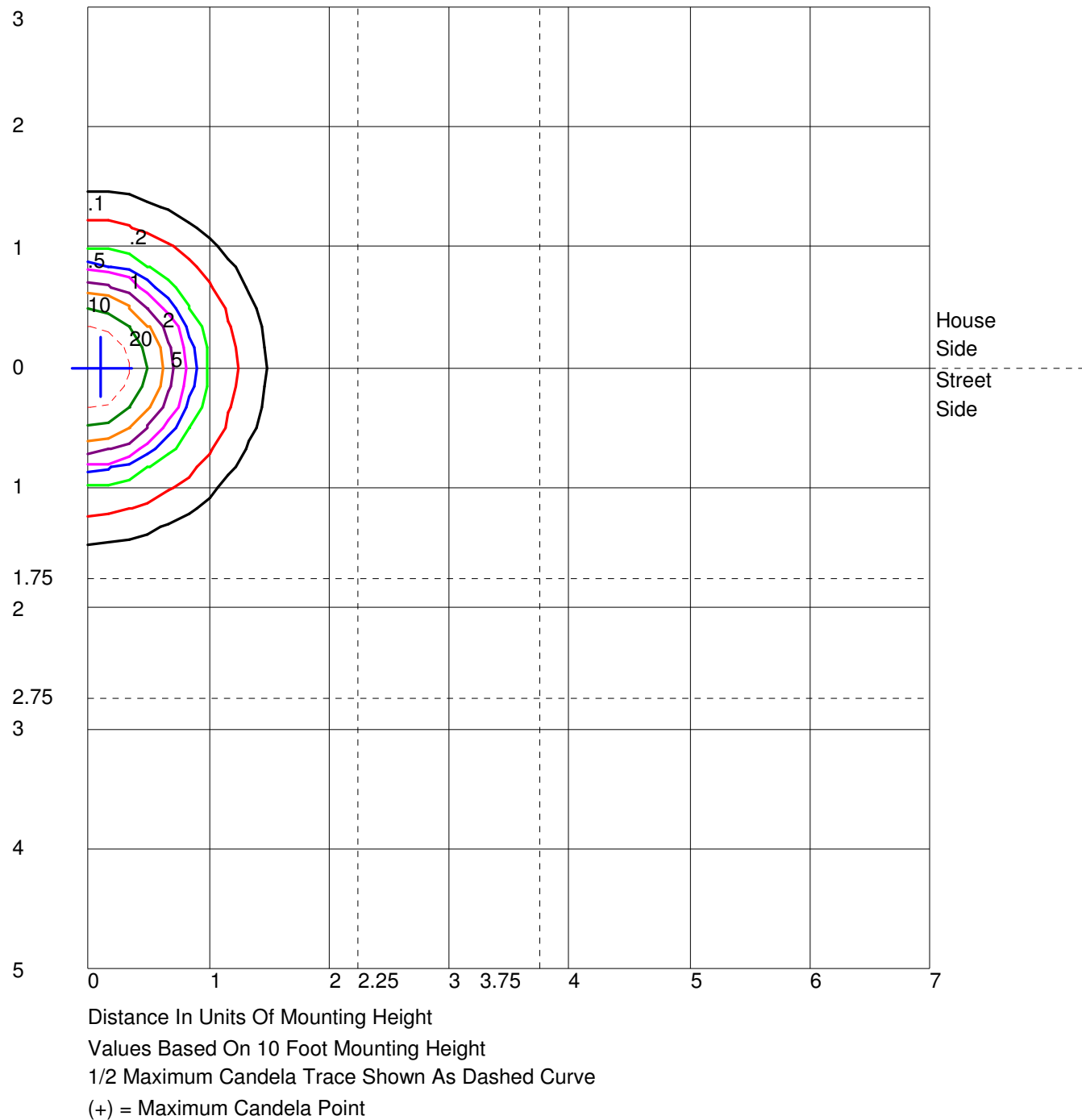
| | Lumens | Percent Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 2263.1 | 50.0 |
| Downward House Side | 2263.1 | 50.0 |
| Downward Total | 4526.2 | 100.0 |
| Upward Street Side | 0.2 | 0.0 |
| Upward House Side | 0.2 | 0.0 |
| Upward Total | 0.4 | 0.0 |
| Total Flux | 4526.6 | 100.0 |

POLAR GRAPH

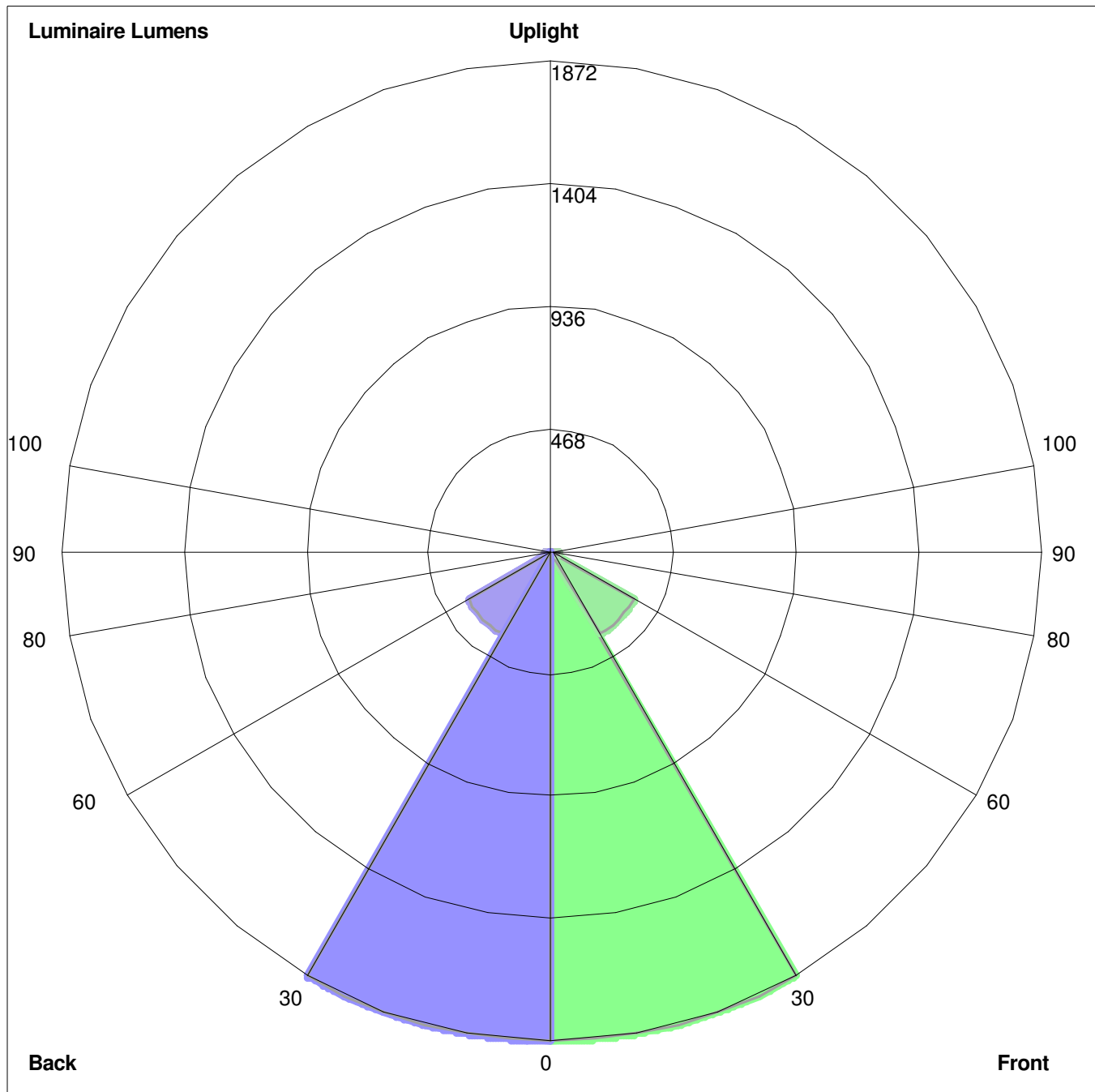


Maximum Candela = 9099.672 Located At Horizontal Angle = 90, Vertical Angle = 6
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (6) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1872.2, Medium=365.6, High=24.2, Very High=1.1
Back: Low=1872.2, Medium=365.6, High=24.2, Very High=1.1
Uplight: Low=0.3, High=0.0

BUG Rating : B3-U1-G0