

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-835-XXX-DIM-UNV-W-XXX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM W6CR\_Angela-XW\_(V22)\_measured  
[TESTLAB] LEDIL Inc  
[TESTDATE] 21 Aug 2024  
[ISSUEDATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] W6CR-xx-L50-835-xxx-DIM-UNV-W-xxx  
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED  
[MORE] CYLINDER WITH WIDE 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                                | 5172                           |
| Downward Total Efficiency                       | N.A. (absolute)                |
| Total Luminaire Efficiency                      | N.A. (absolute)                |
| Luminaire Efficacy Rating (LER)                 | 115                            |
| Total Luminaire Watts                           | 45                             |
| Ballast Factor                                  | 1.00                           |
| Upward Waste Light Ratio                        | 0.00                           |
| Maximum Candela                                 | 4181.193                       |
| Maximum Candela Angle                           | 90H 5V                         |
| Maximum Candela (<90 Degrees Vertical)          | 4181.193                       |
| Maximum Candela Angle (<90 Degrees Vertical)    | 90H 5V                         |
| Maximum Candela At 90 Degrees Vertical          | 1.432 (0.0% Luminaire Lumens)  |
| Maximum Candela from 80 to <90 Degrees Vertical | 26.624 (0.5% Luminaire Lumens) |
| Cutoff Classification (deprecated)              | N.A. (absolute)                |

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L50-835-XXX-DIM-UNV-W-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

|                               | Lumens   | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30)         | 1357.3   | N.A.   | 26.2        |
| FM - Front-Medium (30-60)     | 1050.4   | N.A.   | 20.3        |
| FH - Front-High (60-80)       | 172.9    | N.A.   | 3.3         |
| FVH - Front-Very High (80-90) | 4.8      | N.A.   | 0.1         |
| BL - Back-Low (0-30)          | 1357.3   | N.A.   | 26.2        |
| BM - Back-Medium (30-60)      | 1050.4   | N.A.   | 20.3        |
| BH - Back-High (60-80)        | 172.9    | N.A.   | 3.3         |
| BVH - Back-Very High (80-90)  | 4.8      | N.A.   | 0.1         |
| UL - Uplight-Low (90-100)     | 1.4      | N.A.   | 0.0         |
| UH - Uplight-High (100-180)   | 0.1      | N.A.   | 0.0         |
| Total                         | 5172.3   | N.A.   | 100.0       |
| BUG Rating                    | B3-U1-G0 |        |             |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : W6CR-XX-L50-835-XXX-DIM-UNV-W-XXX\_.IES**

**CANDELA TABULATION**

| Vert.<br>Angles | Horizontal Angles |             |             |             |             |
|-----------------|-------------------|-------------|-------------|-------------|-------------|
|                 | <u>0.0</u>        | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
| 0               | 4144.854          | 4144.854    | 4144.854    | 4144.854    | 4144.854    |
| 1               | 4148.806          | 4149.668    | 4155.138    | 4154.776    | 4152.843    |
| 2               | 4137.089          | 4141.852    | 4154.016    | 4159.296    | 4157.071    |
| 3               | 4119.213          | 4128.307    | 4154.724    | 4168.649    | 4168.114    |
| 4               | 4095.747          | 4112.018    | 4154.258    | 4180.054    | 4179.968    |
| 5               | 4064.222          | 4090.605    | 4147.615    | 4180.900    | 4181.193    |
| 6               | 4029.799          | 4061.876    | 4130.257    | 4167.958    | 4167.027    |
| 7               | 3988.577          | 4026.072    | 4098.715    | 4137.693    | 4134.777    |
| 8               | 3943.352          | 3981.986    | 4055.353    | 4094.401    | 4086.999    |
| 9               | 3891.570          | 3930.946    | 4001.898    | 4039.030    | 4030.351    |
| 10              | 3835.527          | 3875.334    | 3939.366    | 3974.152    | 3966.715    |
| 11              | 3777.499          | 3813.182    | 3866.896    | 3898.852    | 3893.279    |
| 12              | 3716.813          | 3745.905    | 3791.734    | 3817.237    | 3809.472    |
| 13              | 3656.042          | 3675.384    | 3714.743    | 3736.208    | 3720.661    |
| 14              | 3589.749          | 3605.209    | 3636.854    | 3652.194    | 3632.368    |
| 15              | 3521.644          | 3534.602    | 3559.070    | 3569.336    | 3550.408    |
| 16              | 3451.365          | 3462.097    | 3482.165    | 3487.807    | 3471.967    |
| 17              | 3379.447          | 3392.008    | 3408.262    | 3405.829    | 3396.098    |
| 18              | 3313.758          | 3323.299    | 3338.156    | 3330.339    | 3324.162    |
| 19              | 3249.104          | 3254.953    | 3266.945    | 3257.282    | 3251.416    |
| 20              | 3188.729          | 3192.801    | 3199.548    | 3193.560    | 3180.067    |
| 21              | 3130.804          | 3131.305    | 3135.273    | 3131.874    | 3116.086    |
| 22              | 3077.763          | 3071.689    | 3074.381    | 3072.017    | 3061.854    |
| 23              | 3026.792          | 3016.819    | 3019.890    | 3015.680    | 3008.951    |
| 24              | 2978.237          | 2968.713    | 2971.111    | 2961.362    | 2956.047    |
| 25              | 2932.650          | 2921.382    | 2920.520    | 2908.234    | 2899.383    |
| 26              | 2882.645          | 2873.621    | 2866.322    | 2851.397    | 2839.526    |
| 27              | 2826.257          | 2814.541    | 2801.703    | 2785.138    | 2771.283    |
| 28              | 2754.287          | 2740.776    | 2720.381    | 2698.312    | 2691.289    |
| 29              | 2660.921          | 2644.874    | 2617.369    | 2590.452    | 2584.603    |
| 30              | 2539.378          | 2519.207    | 2489.408    | 2458.280    | 2449.394    |
| 31              | 2386.655          | 2365.259    | 2333.838    | 2303.004    | 2291.719    |
| 32              | 2207.239          | 2188.897    | 2162.118    | 2134.976    | 2128.695    |
| 33              | 2006.134          | 1993.607    | 1977.474    | 1959.787    | 1965.637    |
| 34              | 1797.109          | 1791.553    | 1789.707    | 1786.911    | 1800.318    |
| 35              | 1594.641          | 1594.710    | 1605.028    | 1617.710    | 1635.690    |
| 36              | 1410.583          | 1414.983    | 1435.499    | 1456.947    | 1476.566    |
| 37              | 1249.354          | 1257.481    | 1283.311    | 1309.090    | 1328.226    |
| 38              | 1117.751          | 1128.467    | 1155.091    | 1180.197    | 1196.278    |
| 39              | 1019.261          | 1030.839    | 1054.253    | 1074.700    | 1087.762    |
| 40              | 948.516           | 958.127     | 976.417     | 990.825     | 1001.712    |
| 41              | 898.874           | 906.069     | 918.717     | 927.499     | 935.385     |
| 42              | 863.984           | 867.487     | 875.718     | 880.670     | 884.673     |
| 43              | 836.204           | 837.464     | 842.623     | 844.676     | 844.745     |
| 44              | 811.409           | 811.719     | 814.618     | 814.566     | 812.651     |
| 45              | 788.443           | 788.029     | 789.409     | 788.080     | 785.872     |
| 46              | 765.097           | 764.545     | 765.356     | 763.337     | 760.731     |
| 47              | 741.026           | 740.474     | 740.526     | 738.628     | 736.005     |
| 48              | 716.404           | 715.714     | 715.403     | 713.401     | 710.796     |
| 49              | 690.918           | 689.918     | 690.107     | 687.709     | 685.224     |
| 50              | 664.415           | 663.638     | 663.707     | 661.482     | 659.031     |
| 51              | 637.601           | 637.118     | 637.031     | 634.840     | 632.718     |
| 52              | 610.493           | 610.200     | 610.166     | 608.130     | 605.955     |

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L50-835-XXX-DIM-UNV-W-XXX\_.IES****CANDELA TABULATION - (Cont.)**

|     |         |         |         |         |         |
|-----|---------|---------|---------|---------|---------|
| 53  | 583.835 | 583.352 | 583.334 | 581.471 | 579.210 |
| 54  | 557.228 | 556.641 | 556.382 | 554.277 | 551.965 |
| 55  | 530.207 | 529.206 | 529.085 | 526.583 | 524.426 |
| 56  | 501.150 | 500.494 | 500.304 | 497.785 | 495.663 |
| 57  | 472.351 | 471.333 | 470.988 | 468.469 | 466.381 |
| 58  | 443.691 | 442.587 | 442.121 | 439.653 | 437.997 |
| 59  | 415.134 | 414.099 | 413.581 | 411.131 | 409.561 |
| 60  | 387.406 | 386.301 | 385.870 | 383.454 | 381.936 |
| 61  | 360.264 | 359.142 | 358.970 | 356.571 | 355.312 |
| 62  | 334.140 | 333.001 | 332.742 | 330.637 | 329.429 |
| 63  | 308.568 | 307.637 | 307.360 | 305.514 | 304.375 |
| 64  | 283.704 | 283.014 | 282.824 | 281.168 | 280.219 |
| 65  | 260.186 | 259.547 | 259.496 | 258.012 | 257.425 |
| 66  | 237.168 | 236.874 | 236.892 | 235.460 | 234.925 |
| 67  | 215.530 | 215.271 | 215.082 | 213.926 | 213.563 |
| 68  | 194.773 | 194.462 | 194.428 | 193.444 | 193.220 |
| 69  | 174.740 | 174.533 | 174.550 | 173.722 | 173.756 |
| 70  | 155.949 | 155.846 | 155.708 | 155.104 | 155.156 |
| 71  | 138.125 | 138.108 | 137.883 | 137.521 | 137.590 |
| 72  | 121.457 | 121.474 | 121.371 | 120.974 | 121.302 |
| 73  | 105.824 | 105.807 | 105.772 | 105.462 | 105.755 |
| 74  | 91.347  | 91.278  | 91.347  | 91.157  | 91.399  |
| 75  | 77.923  | 77.906  | 77.975  | 77.871  | 78.026  |
| 76  | 65.448  | 65.413  | 65.534  | 65.448  | 65.620  |
| 77  | 54.042  | 54.025  | 54.266  | 54.128  | 54.318  |
| 78  | 43.637  | 43.603  | 43.896  | 43.845  | 44.034  |
| 79  | 34.354  | 34.320  | 34.596  | 34.717  | 34.786  |
| 80  | 26.124  | 26.158  | 26.452  | 26.572  | 26.624  |
| 81  | 18.946  | 19.015  | 19.239  | 19.446  | 19.498  |
| 82  | 12.493  | 12.596  | 12.855  | 13.045  | 13.183  |
| 83  | 8.558   | 8.645   | 9.076   | 9.318   | 9.421   |
| 84  | 7.937   | 7.937   | 7.954   | 7.972   | 7.903   |
| 85  | 7.351   | 7.351   | 7.351   | 7.351   | 7.282   |
| 86  | 6.591   | 6.591   | 6.574   | 6.557   | 6.505   |
| 87  | 5.539   | 5.556   | 5.539   | 5.539   | 5.470   |
| 88  | 4.227   | 4.210   | 4.193   | 4.193   | 4.141   |
| 89  | 2.571   | 2.571   | 2.554   | 2.571   | 2.519   |
| 90  | 1.035   | 1.122   | 1.329   | 1.432   | 1.432   |
| 91  | 0.932   | 0.949   | 0.949   | 0.966   | 0.932   |
| 92  | 1.001   | 1.001   | 1.001   | 1.001   | 0.984   |
| 93  | 1.053   | 1.053   | 1.070   | 1.053   | 1.035   |
| 94  | 1.122   | 1.122   | 1.122   | 1.122   | 1.122   |
| 95  | 1.191   | 1.191   | 1.208   | 1.208   | 1.191   |
| 96  | 1.260   | 1.277   | 1.277   | 1.277   | 1.260   |
| 97  | 1.346   | 1.346   | 1.363   | 1.363   | 1.346   |
| 98  | 1.449   | 1.432   | 1.432   | 1.449   | 1.449   |
| 99  | 1.570   | 1.536   | 1.536   | 1.553   | 1.518   |
| 100 | 1.605   | 1.622   | 1.622   | 1.639   | 1.605   |
| 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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PHOTOMETRIC FILENAME : W6CR-XX-L50-835-XXX-DIM-UNV-W-XXX\_.IES

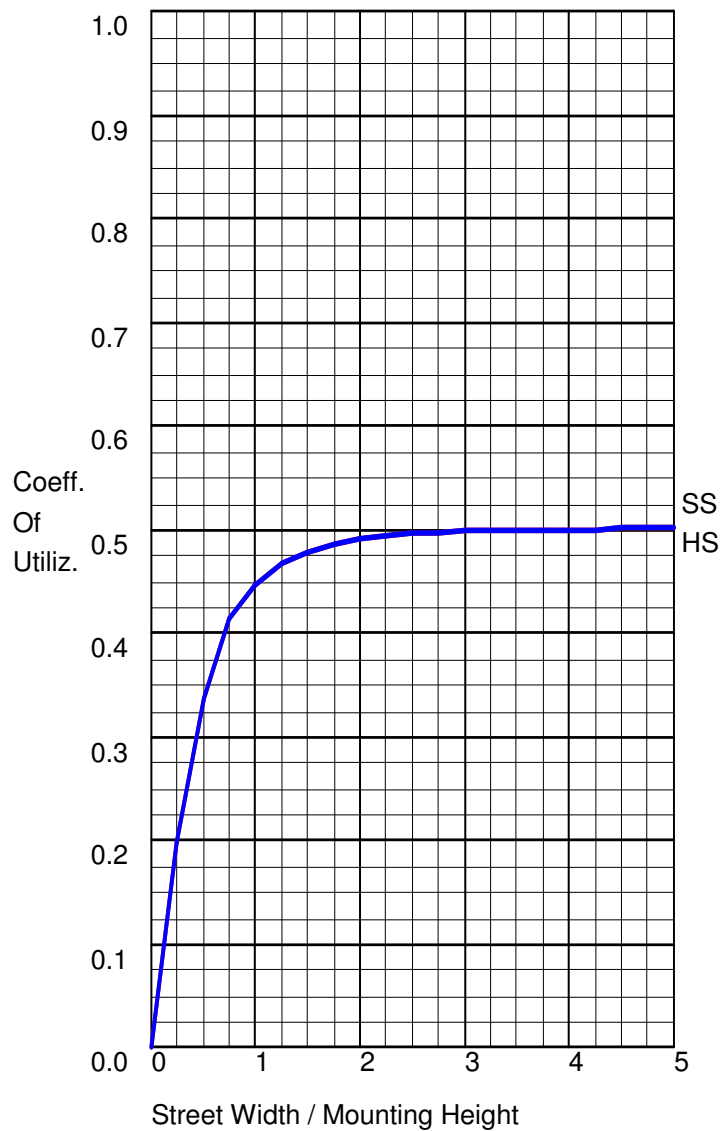
CANDELA TABULATION - (Cont.)

|     |       |       |       |       |       |
|-----|-------|-------|-------|-------|-------|
| 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-L50-835-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 |

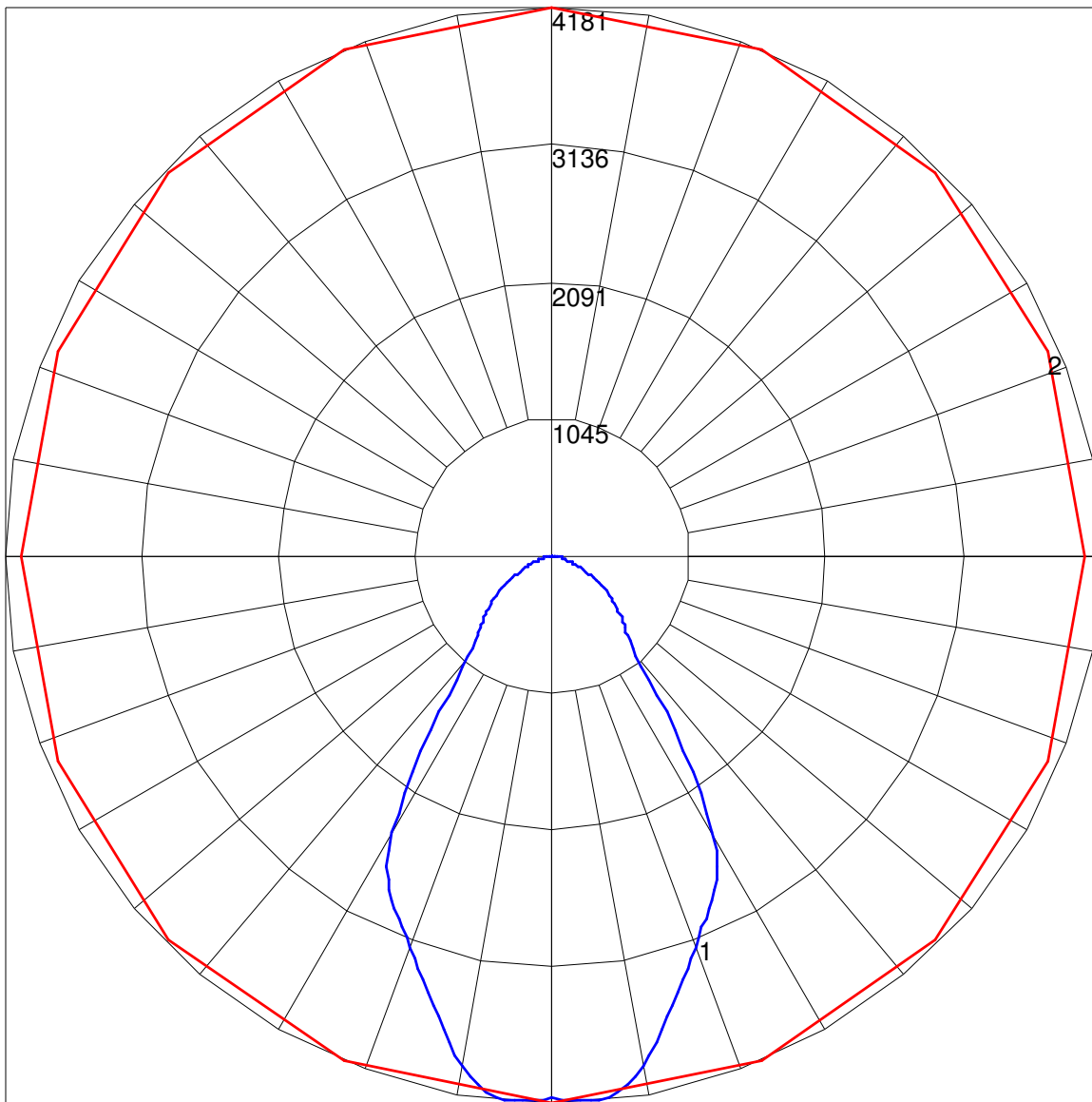
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

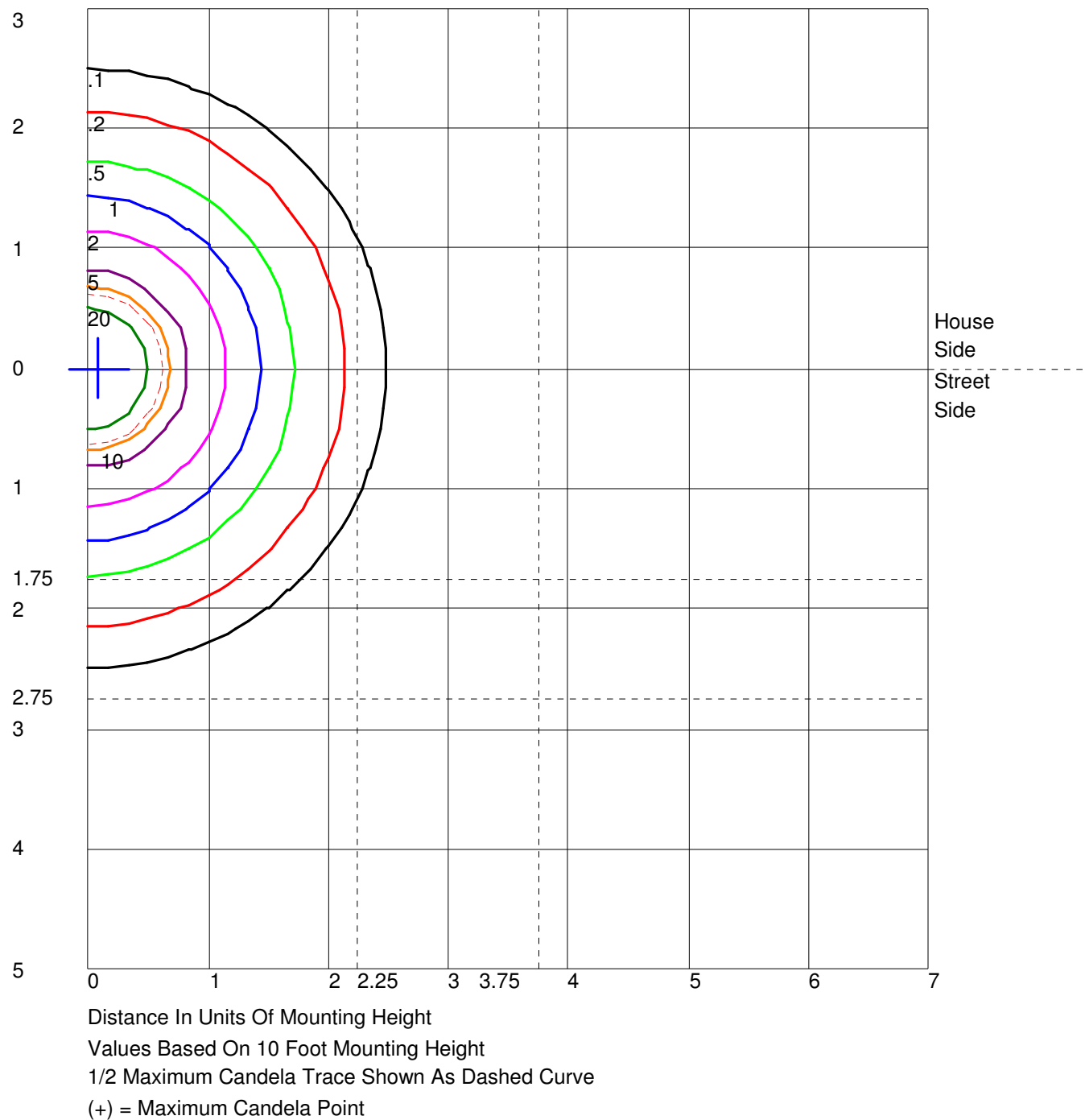
|                      | Lumens | Percent<br>Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 2585.5 | 50.0                    |
| Downward House Side  | 2585.5 | 50.0                    |
| Downward Total       | 5171.0 | 100.0                   |
| Upward Street Side   | 0.7    | 0.0                     |
| Upward House Side    | 0.7    | 0.0                     |
| Upward Total         | 1.4    | 0.0                     |
| Total Flux           | 5172.4 | 100.0                   |

POLAR GRAPH

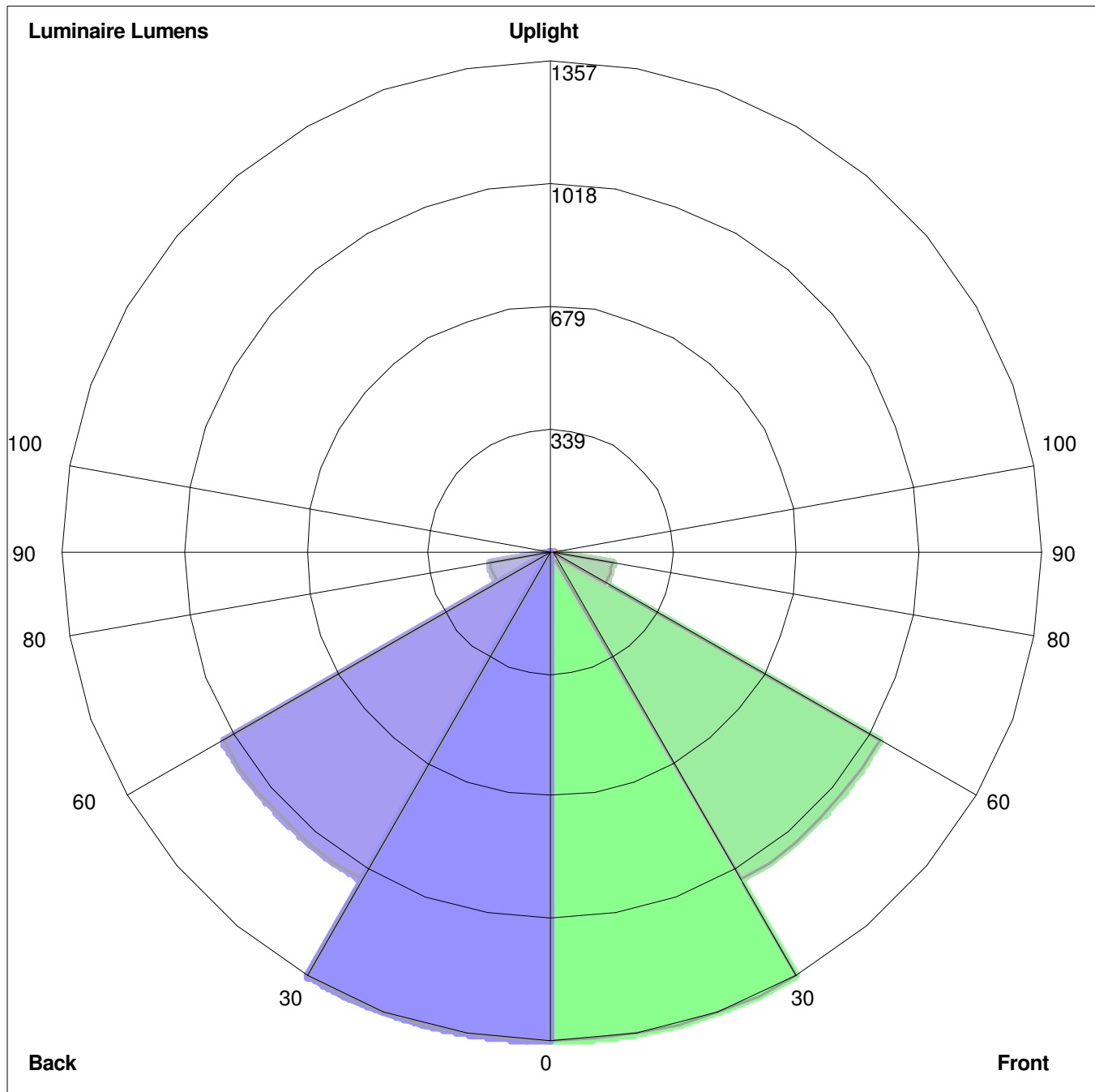


Maximum Candela = 4181.193 Located At Horizontal Angle = 90, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1357.3, Medium=1050.4, High=172.9, Very High=4.8  
Back: Low=1357.3, Medium=1050.4, High=172.9, Very High=4.8  
Uplight: Low=1.4, High=0.1

BUG Rating : B3-U1-G0