

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L60-850-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-L60-850-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                                | 6178                          |
| Downward Total Efficiency                       | N.A. (absolute)               |
| Total Luminaire Efficiency                      | N.A. (absolute)               |
| Luminaire Efficacy Rating (LER)                 | 115                           |
| Total Luminaire Watts                           | 53.6                          |
| Ballast Factor                                  | 1.00                          |
| Upward Waste Light Ratio                        | 0.00                          |
| Maximum Candela                                 | 4993.983                      |
| Maximum Candela Angle                           | 90H 5V                        |
| Maximum Candela (<90 Degrees Vertical)          | 4993.983                      |
| Maximum Candela Angle (<90 Degrees Vertical)    | 90H 5V                        |
| Maximum Candela At 90 Degrees Vertical          | 1.711 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 31.8 (0.5% Luminaire Lumens)  |
| Cutoff Classification (deprecated)              | N.A. (absolute)               |

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L60-850-XXX-DIM-UNV-W-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

|                               | Lumens   | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30)         | 1621.1   | N.A.   | 26.2        |
| FM - Front-Medium (30-60)     | 1254.6   | N.A.   | 20.3        |
| FH - Front-High (60-80)       | 206.5    | N.A.   | 3.3         |
| FVH - Front-Very High (80-90) | 5.8      | N.A.   | 0.1         |
| BL - Back-Low (0-30)          | 1621.1   | N.A.   | 26.2        |
| BM - Back-Medium (30-60)      | 1254.6   | N.A.   | 20.3        |
| BH - Back-High (60-80)        | 206.5    | N.A.   | 3.3         |
| BVH - Back-Very High (80-90)  | 5.8      | N.A.   | 0.1         |
| UL - Uplight-Low (90-100)     | 1.6      | N.A.   | 0.0         |
| UH - Uplight-High (100-180)   | 0.1      | N.A.   | 0.0         |
| Total                         | 6177.7   | N.A.   | 100.0       |
| BUG Rating                    | B3-U1-G0 |        |             |

**IES ROAD REPORT**  
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**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               | 4950.580          | 4950.580    | 4950.580    | 4950.580    | 4950.580    |
| 1               | 4955.299          | 4956.330    | 4962.863    | 4962.430    | 4960.122    |
| 2               | 4941.306          | 4946.994    | 4961.523    | 4967.830    | 4965.171    |
| 3               | 4919.955          | 4930.816    | 4962.368    | 4979.000    | 4978.361    |
| 4               | 4891.927          | 4911.361    | 4961.812    | 4992.622    | 4992.519    |
| 5               | 4854.274          | 4885.785    | 4953.877    | 4993.632    | 4993.983    |
| 6               | 4813.159          | 4851.471    | 4933.145    | 4978.176    | 4977.063    |
| 7               | 4763.924          | 4808.707    | 4895.471    | 4942.027    | 4938.544    |
| 8               | 4709.908          | 4756.051    | 4843.681    | 4890.319    | 4881.478    |
| 9               | 4648.060          | 4695.090    | 4779.834    | 4824.185    | 4813.818    |
| 10              | 4581.122          | 4628.667    | 4705.147    | 4746.695    | 4737.812    |
| 11              | 4511.814          | 4554.433    | 4618.589    | 4656.757    | 4650.100    |
| 12              | 4439.332          | 4474.078    | 4528.816    | 4559.276    | 4550.002    |
| 13              | 4366.746          | 4389.849    | 4436.858    | 4462.496    | 4443.927    |
| 14              | 4287.567          | 4306.032    | 4343.829    | 4362.151    | 4338.471    |
| 15              | 4206.223          | 4221.700    | 4250.924    | 4263.186    | 4240.578    |
| 16              | 4122.282          | 4135.101    | 4159.069    | 4165.808    | 4146.889    |
| 17              | 4036.384          | 4051.387    | 4070.801    | 4067.895    | 4056.271    |
| 18              | 3957.925          | 3969.322    | 3987.066    | 3977.730    | 3970.352    |
| 19              | 3880.703          | 3887.689    | 3902.013    | 3890.472    | 3883.465    |
| 20              | 3808.592          | 3813.456    | 3821.514    | 3814.362    | 3798.246    |
| 21              | 3739.407          | 3740.005    | 3744.745    | 3740.685    | 3721.828    |
| 22              | 3676.055          | 3668.801    | 3672.016    | 3669.192    | 3657.054    |
| 23              | 3615.176          | 3603.264    | 3606.932    | 3601.904    | 3593.866    |
| 24              | 3557.182          | 3545.806    | 3548.671    | 3537.027    | 3530.679    |
| 25              | 3502.733          | 3489.275    | 3488.245    | 3473.571    | 3462.999    |
| 26              | 3443.008          | 3432.230    | 3423.512    | 3405.685    | 3391.506    |
| 27              | 3375.658          | 3361.664    | 3346.331    | 3326.546    | 3309.997    |
| 28              | 3289.697          | 3273.561    | 3249.201    | 3222.842    | 3214.454    |
| 29              | 3178.182          | 3159.016    | 3126.165    | 3094.015    | 3087.028    |
| 30              | 3033.012          | 3008.920    | 2973.328    | 2936.149    | 2925.536    |
| 31              | 2850.601          | 2825.046    | 2787.517    | 2750.689    | 2737.210    |
| 32              | 2636.308          | 2614.401    | 2582.416    | 2549.998    | 2542.496    |
| 33              | 2396.110          | 2381.148    | 2361.878    | 2340.754    | 2347.741    |
| 34              | 2146.452          | 2139.816    | 2137.611    | 2134.272    | 2150.285    |
| 35              | 1904.626          | 1904.708    | 1917.032    | 1932.180    | 1953.655    |
| 36              | 1684.789          | 1690.044    | 1714.548    | 1740.166    | 1763.598    |
| 37              | 1492.218          | 1501.925    | 1532.777    | 1563.567    | 1586.422    |
| 38              | 1335.033          | 1347.831    | 1379.631    | 1409.617    | 1428.825    |
| 39              | 1217.397          | 1231.225    | 1259.192    | 1283.613    | 1299.215    |
| 40              | 1132.900          | 1144.379    | 1166.224    | 1183.433    | 1196.437    |
| 41              | 1073.607          | 1082.201    | 1097.308    | 1107.798    | 1117.216    |
| 42              | 1031.936          | 1036.119    | 1045.950    | 1051.865    | 1056.646    |
| 43              | 998.755           | 1000.260    | 1006.422    | 1008.874    | 1008.957    |
| 44              | 969.140           | 969.511     | 972.973     | 972.912     | 970.624     |
| 45              | 941.709           | 941.215     | 942.864     | 941.277     | 938.639     |
| 46              | 913.825           | 913.166     | 914.135     | 911.723     | 908.611     |
| 47              | 885.076           | 884.416     | 884.478     | 882.211     | 879.079     |
| 48              | 855.667           | 854.842     | 854.471     | 852.081     | 848.969     |
| 49              | 825.227           | 824.032     | 824.259     | 821.394     | 818.426     |
| 50              | 793.572           | 792.644     | 792.727     | 790.068     | 787.142     |
| 51              | 761.545           | 760.968     | 760.865     | 758.248     | 755.713     |
| 52              | 729.168           | 728.818     | 728.777     | 726.345     | 723.748     |

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L60-850-XXX-DIM-UNV-W-XXX\_.IES****CANDELA TABULATION - (Cont.)**

|     |         |         |         |         |         |
|-----|---------|---------|---------|---------|---------|
| 53  | 697.327 | 696.750 | 696.730 | 694.504 | 691.804 |
| 54  | 665.548 | 664.848 | 664.539 | 662.024 | 659.263 |
| 55  | 633.275 | 632.079 | 631.935 | 628.947 | 626.371 |
| 56  | 598.569 | 597.786 | 597.559 | 594.550 | 592.015 |
| 57  | 564.172 | 562.957 | 562.544 | 559.535 | 557.042 |
| 58  | 529.941 | 528.622 | 528.065 | 525.118 | 523.140 |
| 59  | 495.833 | 494.596 | 493.978 | 491.052 | 489.176 |
| 60  | 462.714 | 461.395 | 460.880 | 457.995 | 456.181 |
| 61  | 430.296 | 428.957 | 428.750 | 425.886 | 424.381 |
| 62  | 399.094 | 397.734 | 397.425 | 394.910 | 393.468 |
| 63  | 368.551 | 367.439 | 367.109 | 364.904 | 363.543 |
| 64  | 338.854 | 338.029 | 337.803 | 335.824 | 334.691 |
| 65  | 310.764 | 310.001 | 309.939 | 308.167 | 307.466 |
| 66  | 283.271 | 282.921 | 282.942 | 281.231 | 280.592 |
| 67  | 257.428 | 257.118 | 256.892 | 255.511 | 255.078 |
| 68  | 232.635 | 232.264 | 232.223 | 231.048 | 230.780 |
| 69  | 208.708 | 208.460 | 208.481 | 207.492 | 207.533 |
| 70  | 186.265 | 186.141 | 185.976 | 185.255 | 185.316 |
| 71  | 164.975 | 164.955 | 164.687 | 164.254 | 164.336 |
| 72  | 145.067 | 145.088 | 144.964 | 144.490 | 144.882 |
| 73  | 126.395 | 126.375 | 126.333 | 125.962 | 126.313 |
| 74  | 109.104 | 109.022 | 109.104 | 108.878 | 109.166 |
| 75  | 93.070  | 93.050  | 93.132  | 93.009  | 93.194  |
| 76  | 78.170  | 78.129  | 78.273  | 78.170  | 78.376  |
| 77  | 64.548  | 64.527  | 64.815  | 64.651  | 64.877  |
| 78  | 52.120  | 52.079  | 52.429  | 52.368  | 52.594  |
| 79  | 41.033  | 40.991  | 41.321  | 41.465  | 41.548  |
| 80  | 31.202  | 31.243  | 31.594  | 31.738  | 31.800  |
| 81  | 22.629  | 22.711  | 22.979  | 23.226  | 23.288  |
| 82  | 14.921  | 15.045  | 15.354  | 15.580  | 15.745  |
| 83  | 10.222  | 10.325  | 10.840  | 11.129  | 11.253  |
| 84  | 9.480   | 9.480   | 9.501   | 9.521   | 9.439   |
| 85  | 8.779   | 8.779   | 8.779   | 8.779   | 8.697   |
| 86  | 7.873   | 7.873   | 7.852   | 7.831   | 7.770   |
| 87  | 6.616   | 6.636   | 6.616   | 6.616   | 6.533   |
| 88  | 5.049   | 5.029   | 5.008   | 5.008   | 4.946   |
| 89  | 3.071   | 3.071   | 3.050   | 3.071   | 3.009   |
| 90  | 1.237   | 1.340   | 1.587   | 1.711   | 1.711   |
| 91  | 1.113   | 1.133   | 1.133   | 1.154   | 1.113   |
| 92  | 1.195   | 1.195   | 1.195   | 1.195   | 1.175   |
| 93  | 1.257   | 1.257   | 1.278   | 1.257   | 1.237   |
| 94  | 1.340   | 1.340   | 1.340   | 1.340   | 1.340   |
| 95  | 1.422   | 1.422   | 1.443   | 1.443   | 1.422   |
| 96  | 1.504   | 1.525   | 1.525   | 1.525   | 1.504   |
| 97  | 1.608   | 1.608   | 1.628   | 1.628   | 1.608   |
| 98  | 1.731   | 1.711   | 1.711   | 1.731   | 1.731   |
| 99  | 1.875   | 1.834   | 1.834   | 1.855   | 1.814   |
| 100 | 1.917   | 1.937   | 1.937   | 1.958   | 1.917   |
| 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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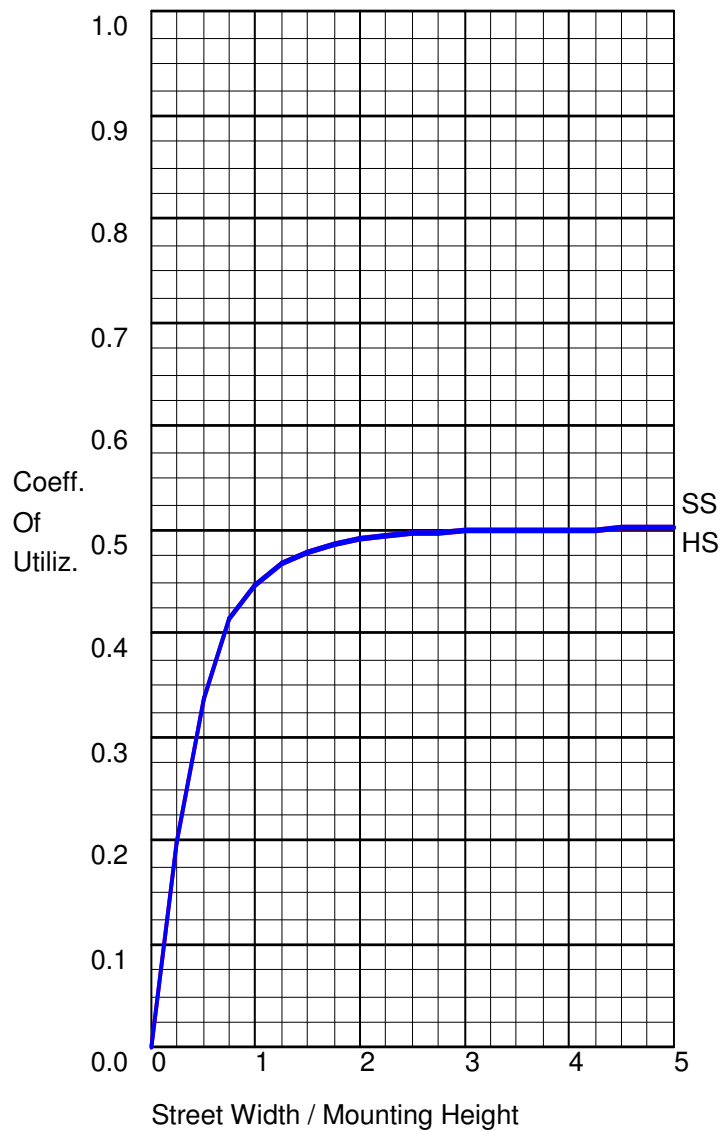
CANDELA TABULATION - (Cont.)

|     |       |       |       |       |       |
|-----|-------|-------|-------|-------|-------|
| 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-L60-850-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 |

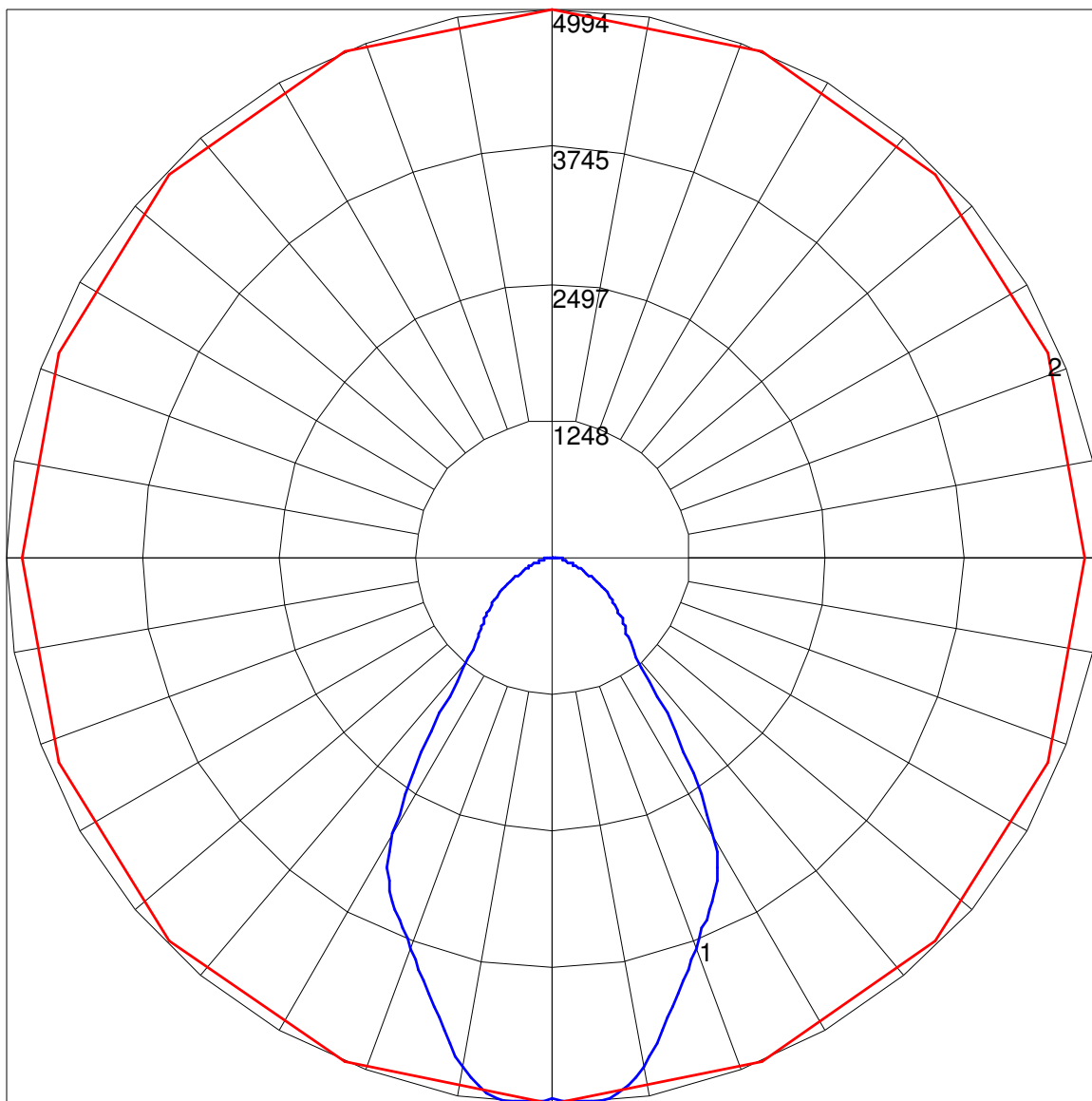
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

|                      | Lumens | Percent<br>Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 3088.1 | 50.0                    |
| Downward House Side  | 3088.1 | 50.0                    |
| Downward Total       | 6176.2 | 100.0                   |
| Upward Street Side   | 0.9    | 0.0                     |
| Upward House Side    | 0.9    | 0.0                     |
| Upward Total         | 1.8    | 0.0                     |
| Total Flux           | 6178.0 | 100.0                   |

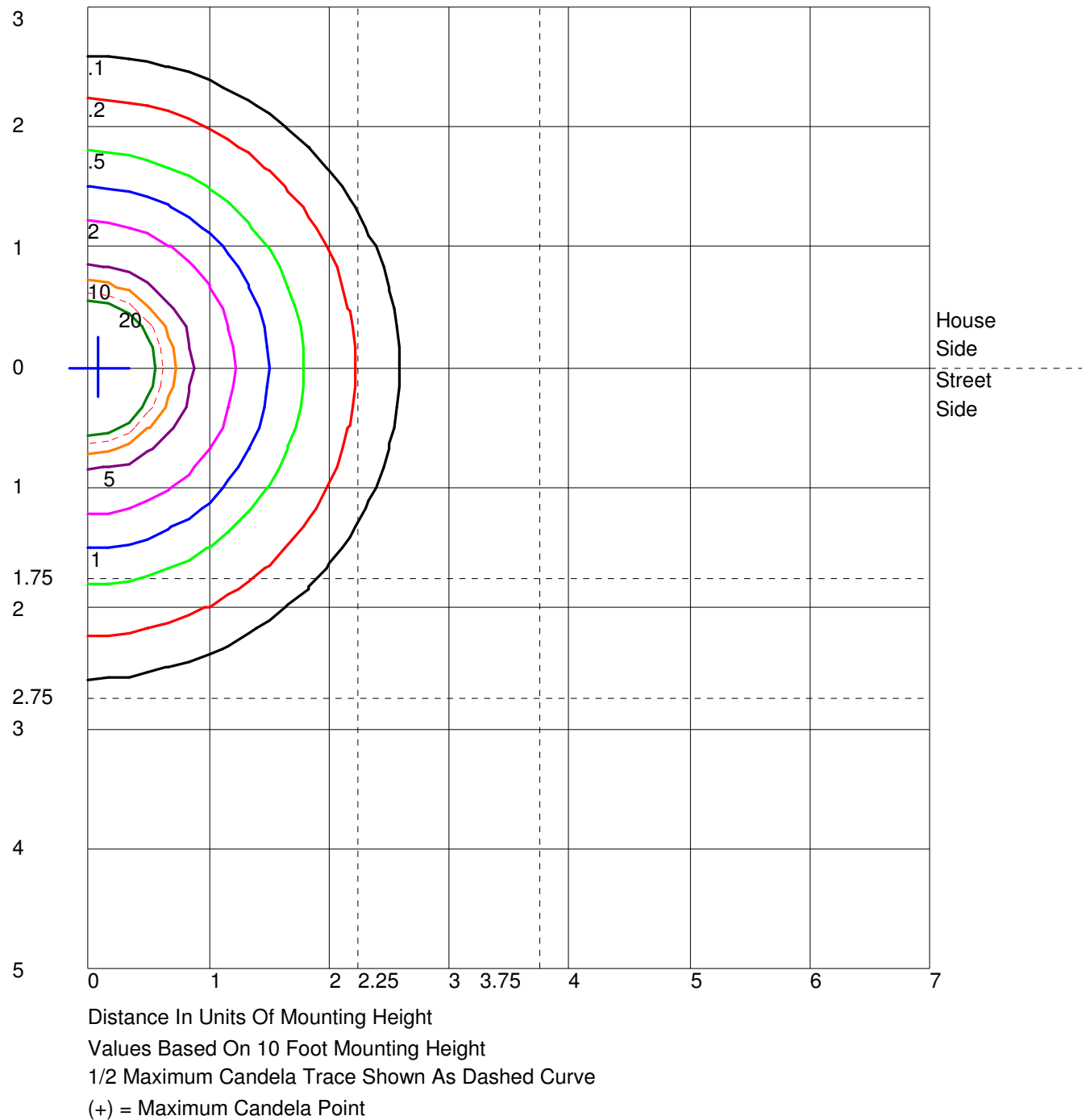
POLAR GRAPH



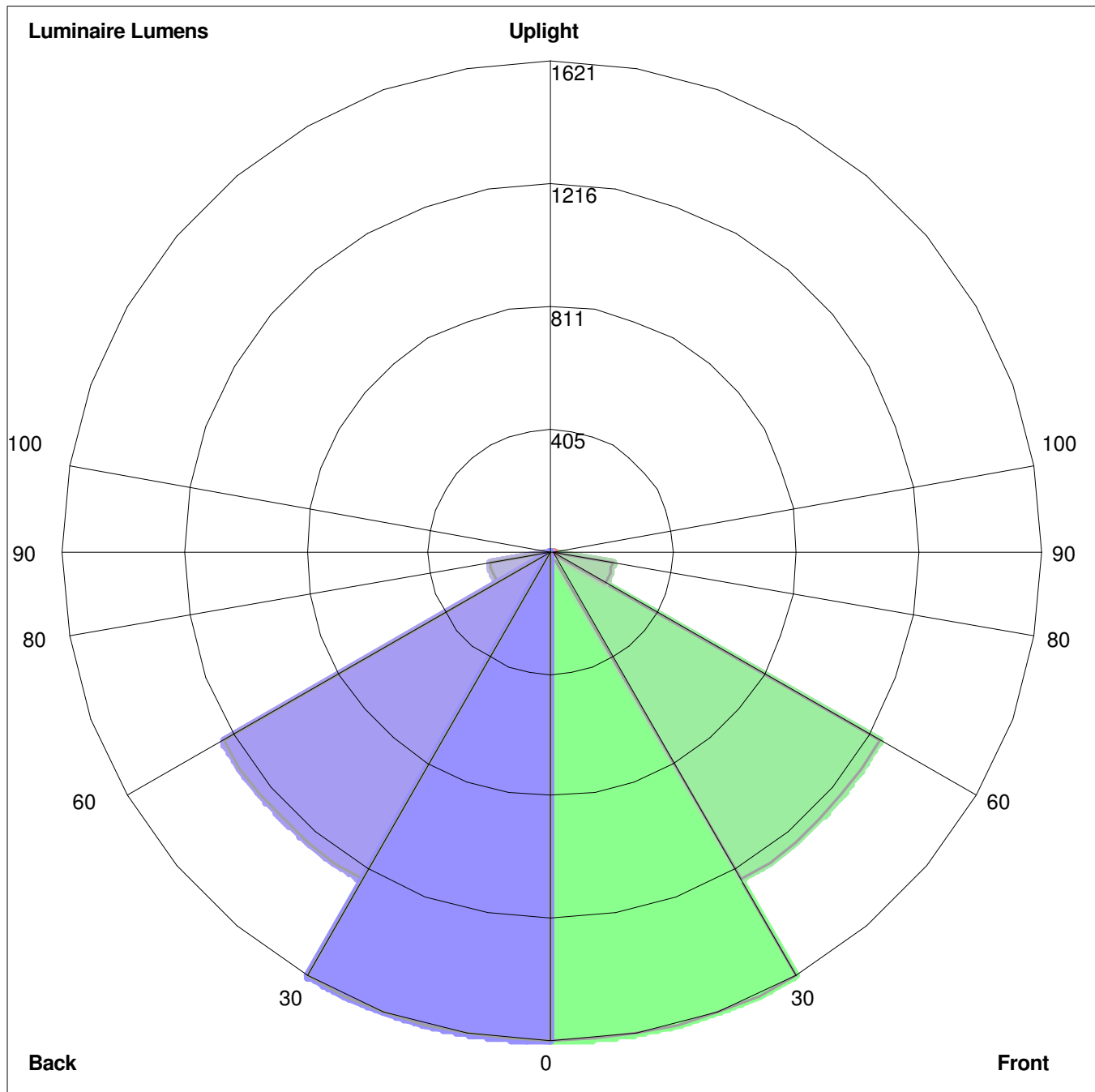
Maximum Candela = 4993.983 Located At Horizontal Angle = 90, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)



ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1621.1, Medium=1254.6, High=206.5, Very High=5.8  
Back: Low=1621.1, Medium=1254.6, High=206.5, Very High=5.8  
Uplight: Low=1.6, High=0.1

BUG Rating : B3-U1-G0