

IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-927-RDB-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-L70-927-RDB-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 | 6529 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 102 |
| Total Luminaire Watts | 63.7 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 5277.638 |
| Maximum Candela Angle | 90H 5V |
| Maximum Candela (<90 Degrees Vertical) | 5277.638 |
| Maximum Candela Angle (<90 Degrees Vertical) | 90H 5V |
| Maximum Candela At 90 Degrees Vertical | 1.808 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 33.606 (0.5% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L70-927-RDB-XXX-DIM-UNV-W-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 1713.2 | N.A. | 26.2 |
| FM - Front-Medium (30-60) | 1325.9 | N.A. | 20.3 |
| FH - Front-High (60-80) | 218.3 | N.A. | 3.3 |
| FVH - Front-Very High (80-90) | 6.1 | N.A. | 0.1 |
| BL - Back-Low (0-30) | 1713.2 | N.A. | 26.2 |
| BM - Back-Medium (30-60) | 1325.9 | N.A. | 20.3 |
| BH - Back-High (60-80) | 218.3 | N.A. | 3.3 |
| BVH - Back-Very High (80-90) | 6.1 | N.A. | 0.1 |
| UL - Uplight-Low (90-100) | 1.7 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.1 | N.A. | 0.0 |
| Total | 6528.8 | N.A. | 100.0 |
| BUG Rating | B3-U1-G0 | | |

IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-927-RDB-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 | 5231.770 | 5231.770 | 5231.770 | 5231.770 | 5231.770 |
| 1 | 5236.757 | 5237.846 | 5244.750 | 5244.293 | 5241.854 |
| 2 | 5221.969 | 5227.980 | 5243.335 | 5249.999 | 5247.190 |
| 3 | 5199.405 | 5210.883 | 5244.228 | 5261.804 | 5261.129 |
| 4 | 5169.785 | 5190.323 | 5243.640 | 5276.200 | 5276.091 |
| 5 | 5129.994 | 5163.295 | 5235.255 | 5277.267 | 5277.638 |
| 6 | 5086.543 | 5127.032 | 5213.344 | 5260.933 | 5259.757 |
| 7 | 5034.512 | 5081.839 | 5173.531 | 5222.731 | 5219.050 |
| 8 | 4977.427 | 5026.192 | 5118.799 | 5168.086 | 5158.743 |
| 9 | 4912.067 | 4961.768 | 5051.326 | 5098.195 | 5087.240 |
| 10 | 4841.327 | 4891.572 | 4972.396 | 5016.304 | 5006.917 |
| 11 | 4768.082 | 4813.122 | 4880.922 | 4921.258 | 4914.223 |
| 12 | 4691.483 | 4728.203 | 4786.050 | 4818.240 | 4808.439 |
| 13 | 4614.775 | 4639.190 | 4688.869 | 4715.963 | 4696.340 |
| 14 | 4531.098 | 4550.612 | 4590.556 | 4609.918 | 4584.893 |
| 15 | 4445.133 | 4461.490 | 4492.373 | 4505.332 | 4481.440 |
| 16 | 4356.425 | 4369.972 | 4395.302 | 4402.424 | 4382.430 |
| 17 | 4265.648 | 4281.503 | 4302.020 | 4298.949 | 4286.665 |
| 18 | 4182.733 | 4194.777 | 4213.529 | 4203.663 | 4195.866 |
| 19 | 4101.124 | 4108.508 | 4123.644 | 4111.448 | 4104.043 |
| 20 | 4024.917 | 4030.057 | 4038.573 | 4031.016 | 4013.984 |
| 21 | 3951.803 | 3952.435 | 3957.444 | 3953.154 | 3933.225 |
| 22 | 3884.853 | 3877.186 | 3880.584 | 3877.600 | 3864.772 |
| 23 | 3820.516 | 3807.927 | 3811.804 | 3806.490 | 3797.996 |
| 24 | 3759.228 | 3747.206 | 3750.233 | 3737.927 | 3731.219 |
| 25 | 3701.686 | 3687.464 | 3686.375 | 3670.868 | 3659.695 |
| 26 | 3638.569 | 3627.178 | 3617.965 | 3599.126 | 3584.141 |
| 27 | 3567.393 | 3552.605 | 3536.401 | 3515.492 | 3498.003 |
| 28 | 3476.550 | 3459.497 | 3433.753 | 3405.897 | 3397.033 |
| 29 | 3358.701 | 3338.446 | 3303.729 | 3269.753 | 3262.369 |
| 30 | 3205.285 | 3179.825 | 3142.211 | 3102.921 | 3091.704 |
| 31 | 3012.514 | 2985.507 | 2945.846 | 2906.926 | 2892.682 |
| 32 | 2786.049 | 2762.897 | 2729.095 | 2694.836 | 2686.908 |
| 33 | 2532.208 | 2516.396 | 2496.032 | 2473.708 | 2481.091 |
| 34 | 2268.369 | 2261.356 | 2259.026 | 2255.498 | 2272.420 |
| 35 | 2012.807 | 2012.894 | 2025.919 | 2041.927 | 2064.621 |
| 36 | 1780.484 | 1786.038 | 1811.934 | 1839.006 | 1863.769 |
| 37 | 1576.975 | 1587.233 | 1619.838 | 1652.376 | 1676.530 |
| 38 | 1410.862 | 1424.387 | 1457.993 | 1489.682 | 1509.981 |
| 39 | 1286.544 | 1301.158 | 1330.713 | 1356.522 | 1373.009 |
| 40 | 1197.248 | 1209.379 | 1232.465 | 1250.651 | 1264.394 |
| 41 | 1134.588 | 1143.670 | 1159.634 | 1170.720 | 1180.673 |
| 42 | 1090.549 | 1094.970 | 1105.359 | 1111.610 | 1116.663 |
| 43 | 1055.484 | 1057.074 | 1063.586 | 1066.178 | 1066.265 |
| 44 | 1024.187 | 1024.579 | 1028.238 | 1028.172 | 1025.755 |
| 45 | 995.198 | 994.675 | 996.418 | 994.741 | 991.953 |
| 46 | 965.730 | 965.033 | 966.057 | 963.509 | 960.220 |
| 47 | 935.348 | 934.651 | 934.716 | 932.320 | 929.010 |
| 48 | 904.268 | 903.397 | 903.005 | 900.478 | 897.190 |
| 49 | 872.100 | 870.836 | 871.076 | 868.049 | 864.912 |
| 50 | 838.646 | 837.666 | 837.753 | 834.944 | 831.851 |
| 51 | 804.801 | 804.191 | 804.082 | 801.316 | 798.637 |
| 52 | 770.585 | 770.215 | 770.171 | 767.601 | 764.857 |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L70-927-RDB-XXX-DIM-UNV-W-XXX_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-----|---------|---------|---------|---------|---------|
| 53 | 736.935 | 736.325 | 736.304 | 733.951 | 731.098 |
| 54 | 703.351 | 702.611 | 702.284 | 699.627 | 696.708 |
| 55 | 669.244 | 667.981 | 667.829 | 664.670 | 661.948 |
| 56 | 632.567 | 631.740 | 631.500 | 628.320 | 625.641 |
| 57 | 596.217 | 594.932 | 594.497 | 591.317 | 588.681 |
| 58 | 560.041 | 558.647 | 558.059 | 554.945 | 552.854 |
| 59 | 523.996 | 522.689 | 522.036 | 518.943 | 516.961 |
| 60 | 488.996 | 487.602 | 487.058 | 484.009 | 482.092 |
| 61 | 454.737 | 453.321 | 453.103 | 450.076 | 448.486 |
| 62 | 421.762 | 420.325 | 419.998 | 417.341 | 415.817 |
| 63 | 389.485 | 388.309 | 387.960 | 385.630 | 384.193 |
| 64 | 358.101 | 357.229 | 356.990 | 354.899 | 353.701 |
| 65 | 328.415 | 327.609 | 327.544 | 325.671 | 324.930 |
| 66 | 299.361 | 298.991 | 299.012 | 297.205 | 296.530 |
| 67 | 272.049 | 271.723 | 271.483 | 270.024 | 269.566 |
| 68 | 245.848 | 245.456 | 245.413 | 244.171 | 243.888 |
| 69 | 220.562 | 220.301 | 220.323 | 219.277 | 219.321 |
| 70 | 196.844 | 196.714 | 196.539 | 195.777 | 195.842 |
| 71 | 174.346 | 174.324 | 174.041 | 173.584 | 173.671 |
| 72 | 153.307 | 153.329 | 153.198 | 152.697 | 153.111 |
| 73 | 133.574 | 133.553 | 133.509 | 133.117 | 133.487 |
| 74 | 115.301 | 115.214 | 115.301 | 115.062 | 115.367 |
| 75 | 98.357 | 98.335 | 98.422 | 98.291 | 98.487 |
| 76 | 82.610 | 82.567 | 82.719 | 82.610 | 82.828 |
| 77 | 68.214 | 68.192 | 68.497 | 68.323 | 68.562 |
| 78 | 55.081 | 55.037 | 55.407 | 55.342 | 55.582 |
| 79 | 43.363 | 43.320 | 43.668 | 43.821 | 43.908 |
| 80 | 32.974 | 33.018 | 33.388 | 33.541 | 33.606 |
| 81 | 23.914 | 24.001 | 24.284 | 24.546 | 24.611 |
| 82 | 15.768 | 15.899 | 16.226 | 16.465 | 16.640 |
| 83 | 10.803 | 10.912 | 11.456 | 11.761 | 11.892 |
| 84 | 10.019 | 10.019 | 10.040 | 10.062 | 9.975 |
| 85 | 9.278 | 9.278 | 9.278 | 9.278 | 9.191 |
| 86 | 8.320 | 8.320 | 8.298 | 8.276 | 8.211 |
| 87 | 6.991 | 7.013 | 6.991 | 6.991 | 6.904 |
| 88 | 5.336 | 5.314 | 5.292 | 5.292 | 5.227 |
| 89 | 3.245 | 3.245 | 3.223 | 3.245 | 3.180 |
| 90 | 1.307 | 1.416 | 1.677 | 1.808 | 1.808 |
| 91 | 1.176 | 1.198 | 1.198 | 1.220 | 1.176 |
| 92 | 1.263 | 1.263 | 1.263 | 1.263 | 1.241 |
| 93 | 1.329 | 1.329 | 1.350 | 1.329 | 1.307 |
| 94 | 1.416 | 1.416 | 1.416 | 1.416 | 1.416 |
| 95 | 1.503 | 1.503 | 1.525 | 1.525 | 1.503 |
| 96 | 1.590 | 1.612 | 1.612 | 1.612 | 1.590 |
| 97 | 1.699 | 1.699 | 1.721 | 1.721 | 1.699 |
| 98 | 1.829 | 1.808 | 1.808 | 1.829 | 1.829 |
| 99 | 1.982 | 1.938 | 1.938 | 1.960 | 1.917 |
| 100 | 2.026 | 2.047 | 2.047 | 2.069 | 2.026 |
| 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 |

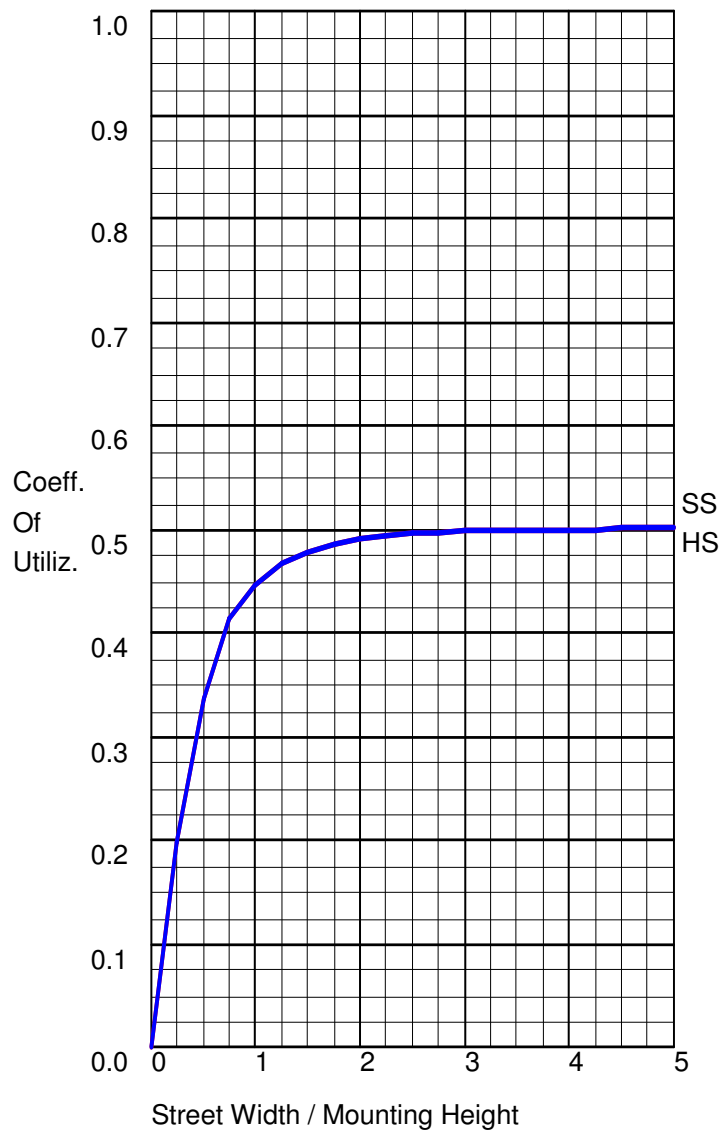
IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L70-927-RDB-XXX-DIM-UNV-W-XXX_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-----|-------|-------|-------|-------|-------|
| 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-L70-927-RDB-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 |

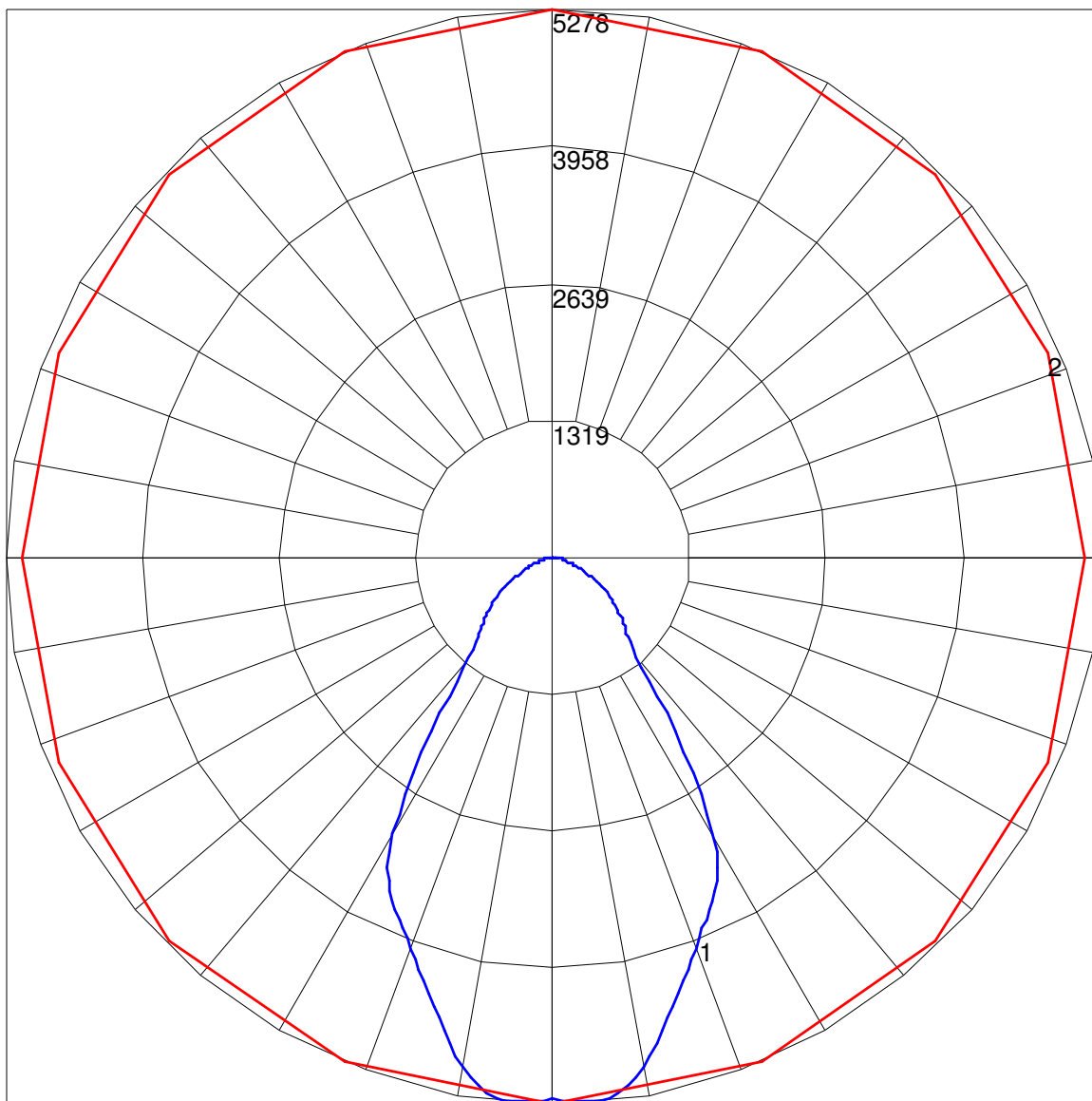
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

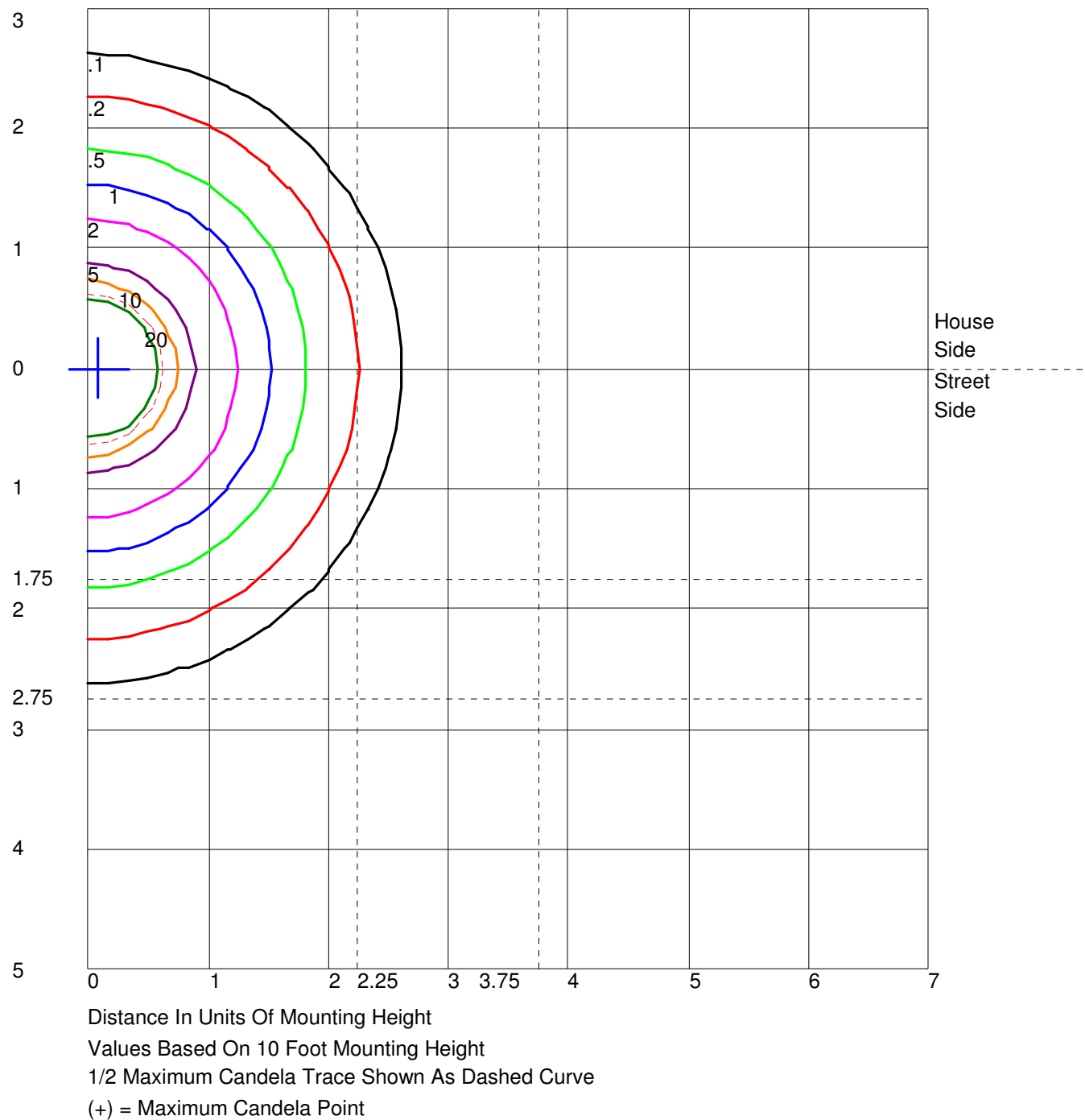
| | Lumens | Percent Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 3263.5 | 50.0 |
| Downward House Side | 3263.5 | 50.0 |
| Downward Total | 6527.0 | 100.0 |
| Upward Street Side | 0.9 | 0.0 |
| Upward House Side | 0.9 | 0.0 |
| Upward Total | 1.8 | 0.0 |
| Total Flux | 6528.8 | 100.0 |

POLAR GRAPH

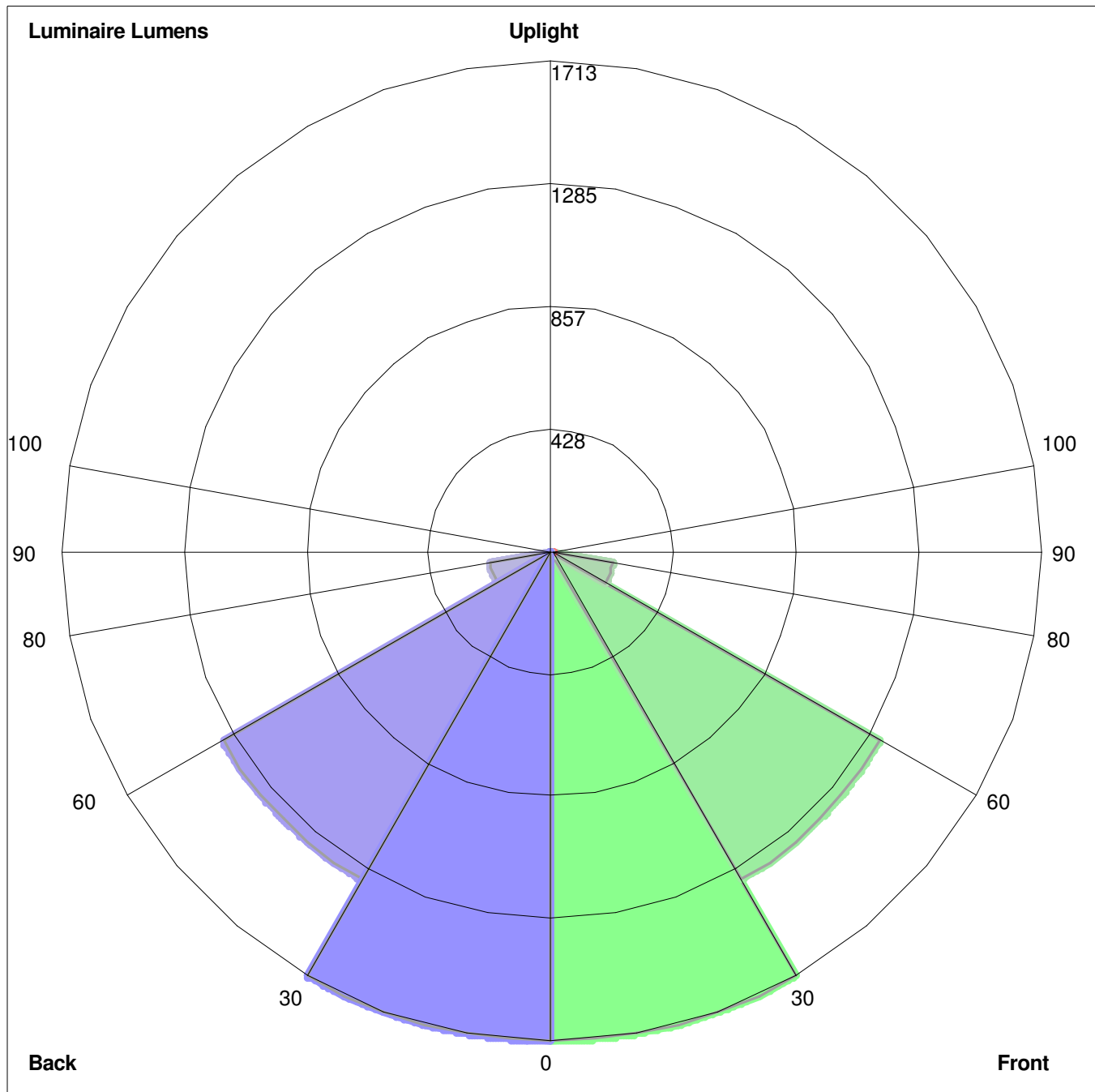


Maximum Candela = 5277.638 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1713.2, Medium=1325.9, High=218.3, Very High=6.1
Back: Low=1713.2, Medium=1325.9, High=218.3, Very High=6.1
Uplight: Low=1.7, High=0.1

BUG Rating : B3-U1-G0