

IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L40-927-XXX-DIM-UNV-N-XXX_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W6CR_Angela-M_(V18)_measured
[TESTLAB] LEDIL Inc
[TESTDATE] 21 Aug 2024
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] W6CR-xx-L40-927-xxx-DIM-UNV-N-xxx
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED
[MORE] CYLINDER WITH NARROW DIST.
[LAMPCAT] BL V18 COB
[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 | 3402 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 93 |
| Total Luminaire Watts | 36.7 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 10027.194 |
| Maximum Candela Angle | 90H 0V |
| Maximum Candela (<90 Degrees Vertical) | 10027.194 |
| Maximum Candela Angle (<90 Degrees Vertical) | 90H 0V |
| Maximum Candela At 90 Degrees Vertical | .307 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 6.737 (0.2% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L40-927-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 1333.8 | N.A. | 39.2 |
| FM - Front-Medium (30-60) | 341.0 | N.A. | 10.0 |
| FH - Front-High (60-80) | 25.2 | N.A. | 0.7 |
| FVH - Front-Very High (80-90) | 1.0 | N.A. | 0.0 |
| BL - Back-Low (0-30) | 1333.8 | N.A. | 39.2 |
| BM - Back-Medium (30-60) | 341.0 | N.A. | 10.0 |
| BH - Back-High (60-80) | 25.2 | N.A. | 0.7 |
| BVH - Back-Very High (80-90) | 1.0 | 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 | 3402.3 | N.A. | 100.0 |
| BUG Rating | B3-U1-G0 | | |

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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 | 10027.194 | 10027.194 | 10027.194 | 10027.194 | 10027.194 |
| 1 | 9962.697 | 9959.899 | 9961.629 | 9961.543 | 9957.911 |
| 2 | 9786.765 | 9784.151 | 9782.936 | 9783.586 | 9779.905 |
| 3 | 9505.116 | 9499.570 | 9498.478 | 9500.392 | 9492.330 |
| 4 | 9117.948 | 9114.880 | 9109.775 | 9110.929 | 9105.934 |
| 5 | 8634.156 | 8632.267 | 8638.660 | 8639.273 | 8641.936 |
| 6 | 8087.671 | 8085.769 | 8095.328 | 8107.219 | 8117.588 |
| 7 | 7498.249 | 7501.366 | 7519.503 | 7539.358 | 7547.371 |
| 8 | 6886.064 | 6894.642 | 6918.153 | 6947.199 | 6956.611 |
| 9 | 6288.580 | 6296.237 | 6324.510 | 6361.679 | 6378.773 |
| 10 | 5720.056 | 5727.639 | 5760.330 | 5798.346 | 5819.747 |
| 11 | 5190.959 | 5197.401 | 5228.472 | 5268.439 | 5291.877 |
| 12 | 4707.781 | 4715.646 | 4744.913 | 4783.604 | 4800.404 |
| 13 | 4276.755 | 4285.099 | 4315.998 | 4357.536 | 4363.893 |
| 14 | 3897.489 | 3910.730 | 3941.420 | 3967.042 | 3978.774 |
| 15 | 3577.690 | 3579.212 | 3600.858 | 3629.339 | 3644.985 |
| 16 | 3278.702 | 3287.881 | 3317.209 | 3343.187 | 3363.644 |
| 17 | 3034.935 | 3042.249 | 3060.042 | 3086.180 | 3099.445 |
| 18 | 2827.491 | 2833.491 | 2849.211 | 2872.256 | 2882.736 |
| 19 | 2653.694 | 2658.332 | 2671.843 | 2689.059 | 2700.005 |
| 20 | 2508.783 | 2510.428 | 2520.674 | 2533.682 | 2542.615 |
| 21 | 2382.623 | 2381.151 | 2389.581 | 2399.926 | 2407.460 |
| 22 | 2275.361 | 2268.477 | 2275.741 | 2283.398 | 2290.872 |
| 23 | 2179.228 | 2169.338 | 2175.338 | 2180.468 | 2188.923 |
| 24 | 2088.041 | 2080.838 | 2082.617 | 2086.777 | 2095.711 |
| 25 | 2004.842 | 1998.081 | 1996.338 | 1999.075 | 2006.143 |
| 26 | 1922.527 | 1916.306 | 1911.189 | 1914.122 | 1919.177 |
| 27 | 1839.390 | 1830.665 | 1824.603 | 1825.204 | 1832.064 |
| 28 | 1747.197 | 1737.073 | 1726.164 | 1726.311 | 1732.864 |
| 29 | 1637.774 | 1632.179 | 1619.883 | 1620.337 | 1629.675 |
| 30 | 1522.474 | 1514.768 | 1492.753 | 1496.987 | 1505.221 |
| 31 | 1379.012 | 1372.017 | 1355.009 | 1354.531 | 1363.354 |
| 32 | 1218.173 | 1214.799 | 1201.190 | 1206.651 | 1211.436 |
| 33 | 1047.984 | 1046.696 | 1037.860 | 1046.966 | 1052.328 |
| 34 | 877.243 | 878.470 | 875.783 | 886.422 | 891.281 |
| 35 | 717.496 | 719.116 | 722.209 | 735.609 | 738.750 |
| 36 | 577.347 | 578.231 | 587.630 | 601.877 | 605.546 |
| 37 | 459.789 | 465.262 | 474.159 | 490.872 | 490.381 |
| 38 | 368.173 | 375.363 | 387.426 | 396.421 | 398.323 |
| 39 | 309.528 | 307.774 | 318.118 | 326.941 | 328.843 |
| 40 | 257.830 | 262.039 | 272.629 | 278.176 | 283.256 |
| 41 | 227.496 | 229.974 | 235.680 | 239.485 | 241.558 |
| 42 | 205.960 | 207.285 | 211.568 | 213.973 | 215.114 |
| 43 | 189.394 | 190.240 | 193.664 | 195.051 | 196.290 |
| 44 | 175.564 | 176.411 | 178.816 | 179.994 | 180.485 |
| 45 | 163.379 | 164.311 | 166.471 | 167.048 | 167.588 |
| 46 | 152.089 | 153.083 | 154.899 | 155.672 | 156.114 |
| 47 | 141.438 | 142.358 | 144.113 | 144.898 | 145.328 |
| 48 | 131.388 | 132.320 | 133.977 | 134.885 | 135.314 |
| 49 | 122.000 | 122.835 | 124.393 | 125.350 | 125.755 |
| 50 | 113.165 | 113.840 | 115.398 | 116.331 | 116.748 |
| 51 | 104.906 | 105.557 | 106.993 | 107.950 | 108.379 |
| 52 | 97.237 | 97.789 | 99.139 | 100.108 | 100.440 |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L40-927-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-----|--------|--------|--------|--------|--------|
| 53 | 90.071 | 90.610 | 91.850 | 92.832 | 93.126 |
| 54 | 83.481 | 83.959 | 85.052 | 85.972 | 86.291 |
| 55 | 77.223 | 77.615 | 78.695 | 79.493 | 79.861 |
| 56 | 71.136 | 71.516 | 72.523 | 73.271 | 73.615 |
| 57 | 65.369 | 65.749 | 66.682 | 67.344 | 67.688 |
| 58 | 60.178 | 60.509 | 61.356 | 61.957 | 62.301 |
| 59 | 55.392 | 55.674 | 56.435 | 57.000 | 57.331 |
| 60 | 50.975 | 51.244 | 51.956 | 52.435 | 52.742 |
| 61 | 46.974 | 47.195 | 47.845 | 48.275 | 48.496 |
| 62 | 43.317 | 43.538 | 44.090 | 44.483 | 44.667 |
| 63 | 39.967 | 40.164 | 40.679 | 40.998 | 41.145 |
| 64 | 36.949 | 37.047 | 37.538 | 37.808 | 37.893 |
| 65 | 34.163 | 34.237 | 34.678 | 34.887 | 34.973 |
| 66 | 31.537 | 31.623 | 31.966 | 32.175 | 32.212 |
| 67 | 29.120 | 29.205 | 29.512 | 29.672 | 29.709 |
| 68 | 26.886 | 26.972 | 27.217 | 27.352 | 27.365 |
| 69 | 24.812 | 24.837 | 25.082 | 25.180 | 25.168 |
| 70 | 22.849 | 22.873 | 23.070 | 23.143 | 23.119 |
| 71 | 20.996 | 20.996 | 21.156 | 21.217 | 21.168 |
| 72 | 19.266 | 19.217 | 19.352 | 19.388 | 19.376 |
| 73 | 17.548 | 17.511 | 17.621 | 17.634 | 17.597 |
| 74 | 15.891 | 15.867 | 15.940 | 15.965 | 15.928 |
| 75 | 14.308 | 14.271 | 14.320 | 14.357 | 14.308 |
| 76 | 12.737 | 12.701 | 12.737 | 12.762 | 12.737 |
| 77 | 11.179 | 11.167 | 11.216 | 11.216 | 11.216 |
| 78 | 9.657 | 9.645 | 9.694 | 9.694 | 9.719 |
| 79 | 8.136 | 8.124 | 8.197 | 8.209 | 8.222 |
| 80 | 6.614 | 6.614 | 6.688 | 6.737 | 6.725 |
| 81 | 4.982 | 5.031 | 5.068 | 5.105 | 5.080 |
| 82 | 2.896 | 2.970 | 3.043 | 3.031 | 3.056 |
| 83 | 1.448 | 1.448 | 1.571 | 1.632 | 1.730 |
| 84 | 1.313 | 1.313 | 1.325 | 1.313 | 1.313 |
| 85 | 1.215 | 1.215 | 1.215 | 1.215 | 1.215 |
| 86 | 1.080 | 1.092 | 1.092 | 1.080 | 1.092 |
| 87 | 0.920 | 0.920 | 0.933 | 0.920 | 0.920 |
| 88 | 0.712 | 0.724 | 0.724 | 0.712 | 0.712 |
| 89 | 0.479 | 0.479 | 0.479 | 0.479 | 0.479 |
| 90 | 0.270 | 0.282 | 0.295 | 0.307 | 0.307 |
| 91 | 0.258 | 0.270 | 0.258 | 0.258 | 0.245 |
| 92 | 0.270 | 0.270 | 0.270 | 0.270 | 0.245 |
| 93 | 0.270 | 0.270 | 0.270 | 0.270 | 0.245 |
| 94 | 0.270 | 0.282 | 0.282 | 0.270 | 0.258 |
| 95 | 0.282 | 0.282 | 0.282 | 0.270 | 0.270 |
| 96 | 0.282 | 0.295 | 0.295 | 0.282 | 0.295 |
| 97 | 0.307 | 0.307 | 0.307 | 0.307 | 0.307 |
| 98 | 0.319 | 0.319 | 0.307 | 0.319 | 0.319 |
| 99 | 0.331 | 0.344 | 0.331 | 0.319 | 0.331 |
| 100 | 0.331 | 0.344 | 0.344 | 0.331 | 0.331 |
| 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 |

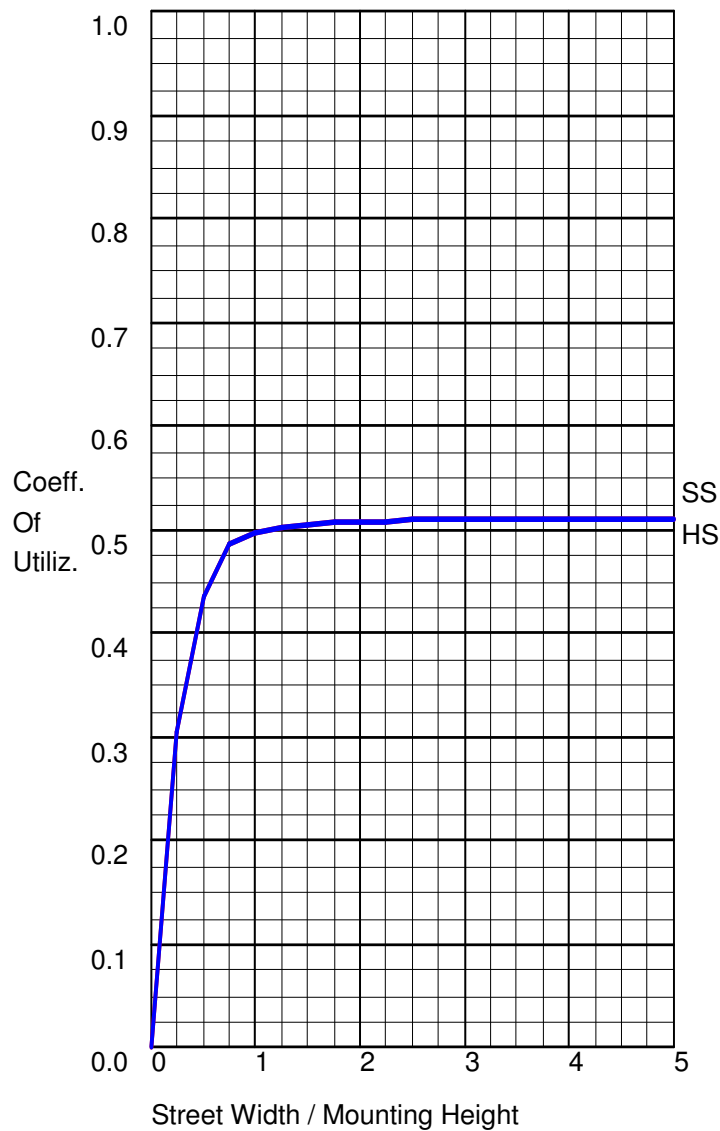
IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L40-927-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-----|-------|-------|-------|-------|-------|
| 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-L40-927-XXX-DIM-UNV-N-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 |

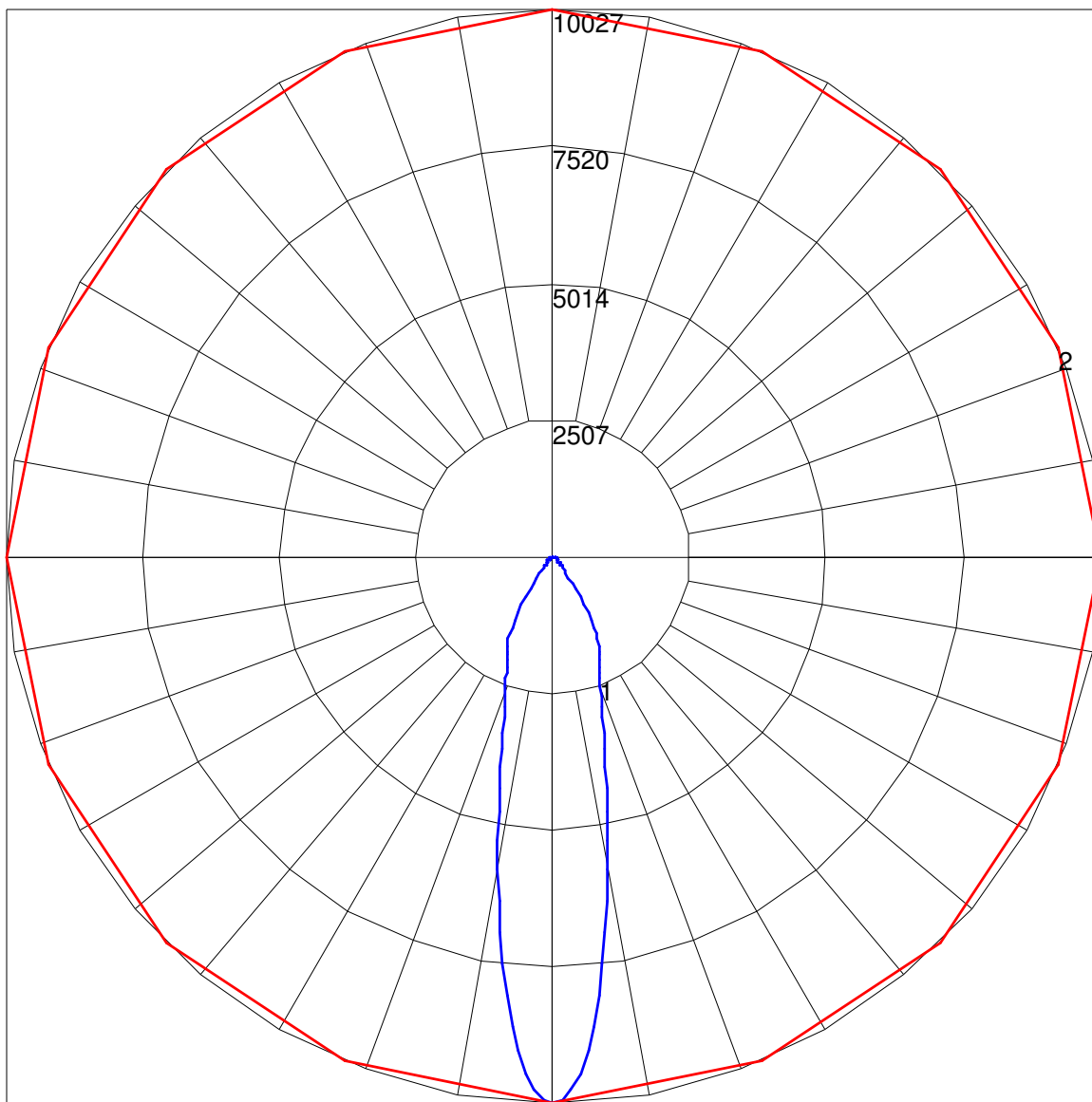
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

| | Lumens | Percent Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 1701.0 | 50.0 |
| Downward House Side | 1701.0 | 50.0 |
| Downward Total | 3402.0 | 100.0 |
| Upward Street Side | 0.2 | 0.0 |
| Upward House Side | 0.2 | 0.0 |
| Upward Total | 0.4 | 0.0 |
| Total Flux | 3402.4 | 100.0 |

POLAR GRAPH



Maximum Candela = 10027.194 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.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

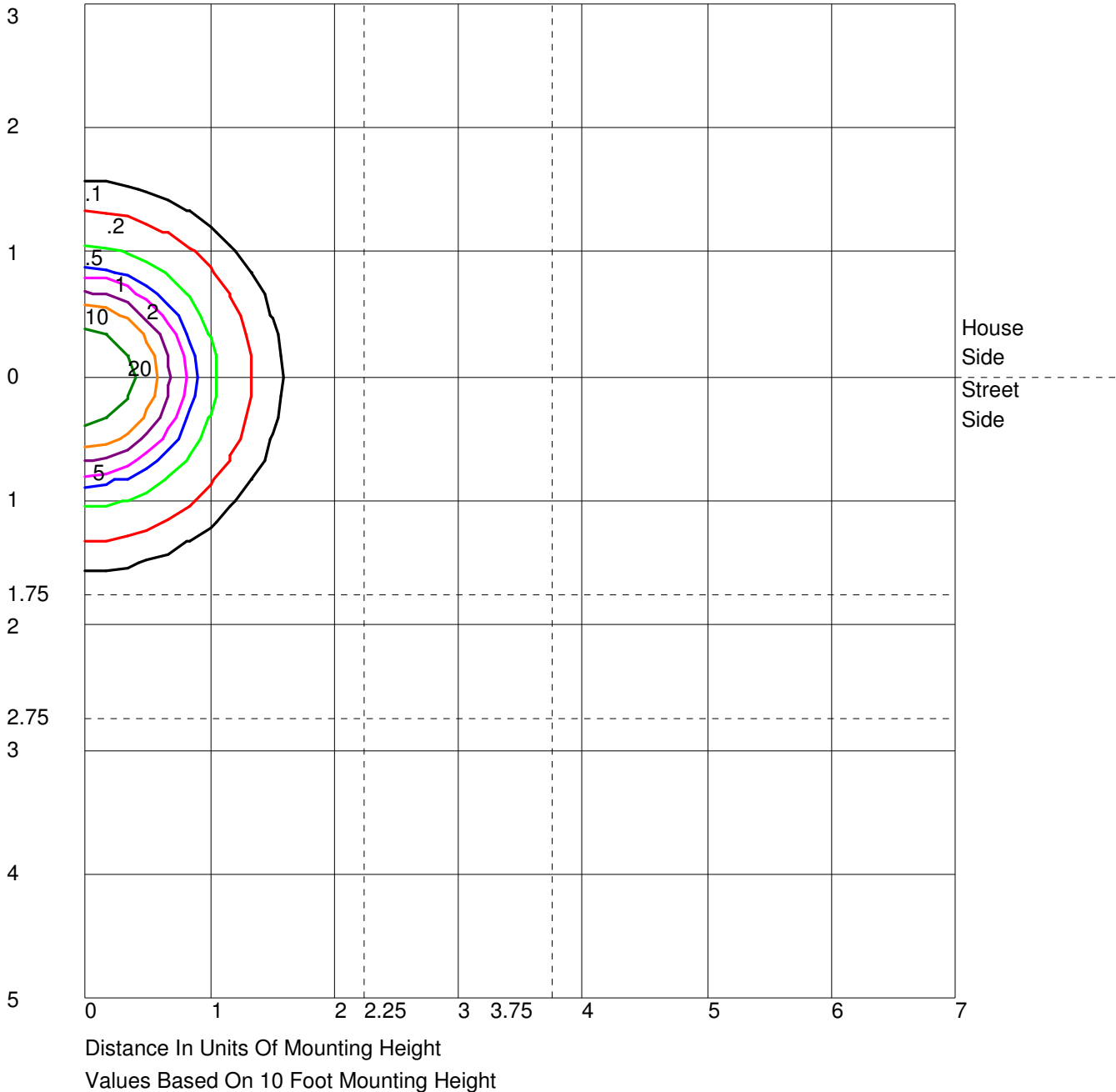


PHOTO IES R

