

IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L40-940-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-L40-940-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 | 3511 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 96 |
| Total Luminaire Watts | 36.7 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 10347.208 |
| Maximum Candela Angle | 90H 0V |
| Maximum Candela (<90 Degrees Vertical) | 10347.208 |
| Maximum Candela Angle (<90 Degrees Vertical) | 90H 0V |
| Maximum Candela At 90 Degrees Vertical | .317 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 6.952 (0.2% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L40-940-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 1376.4 | N.A. | 39.2 |
| FM - Front-Medium (30-60) | 351.9 | N.A. | 10.0 |
| FH - Front-High (60-80) | 26.0 | N.A. | 0.7 |
| FVH - Front-Very High (80-90) | 1.1 | N.A. | 0.0 |
| BL - Back-Low (0-30) | 1376.4 | N.A. | 39.2 |
| BM - Back-Medium (30-60) | 351.9 | N.A. | 10.0 |
| BH - Back-High (60-80) | 26.0 | N.A. | 0.7 |
| 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 | 3511.1 | N.A. | 100.0 |
| BUG Rating | B3-U1-G0 | | |

IES ROAD REPORT
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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 | 10347.208 | 10347.208 | 10347.208 | 10347.208 | 10347.208 |
| 1 | 10280.652 | 10277.765 | 10279.550 | 10279.462 | 10275.714 |
| 2 | 10099.105 | 10096.408 | 10095.154 | 10095.825 | 10092.027 |
| 3 | 9808.468 | 9802.745 | 9801.618 | 9803.593 | 9795.273 |
| 4 | 9408.944 | 9405.778 | 9400.510 | 9401.700 | 9396.547 |
| 5 | 8909.712 | 8907.762 | 8914.359 | 8914.992 | 8917.740 |
| 6 | 8345.786 | 8343.823 | 8353.687 | 8365.958 | 8376.658 |
| 7 | 7737.553 | 7740.769 | 7759.485 | 7779.973 | 7788.242 |
| 8 | 7105.830 | 7114.681 | 7138.943 | 7168.916 | 7178.628 |
| 9 | 6489.277 | 6497.179 | 6526.354 | 6564.710 | 6582.349 |
| 10 | 5902.609 | 5910.434 | 5944.168 | 5983.398 | 6005.481 |
| 11 | 5356.626 | 5363.274 | 5395.336 | 5436.579 | 5460.765 |
| 12 | 4858.027 | 4866.144 | 4896.345 | 4936.271 | 4953.606 |
| 13 | 4413.246 | 4421.857 | 4453.742 | 4496.605 | 4503.165 |
| 14 | 4021.876 | 4035.539 | 4067.209 | 4093.649 | 4105.755 |
| 15 | 3691.870 | 3693.441 | 3715.778 | 3745.168 | 3761.313 |
| 16 | 3383.341 | 3392.813 | 3423.077 | 3449.884 | 3470.993 |
| 17 | 3131.794 | 3139.341 | 3157.702 | 3184.674 | 3198.362 |
| 18 | 2917.729 | 2923.921 | 2940.142 | 2963.923 | 2974.737 |
| 19 | 2738.385 | 2743.172 | 2757.114 | 2774.880 | 2786.175 |
| 20 | 2588.850 | 2590.547 | 2601.120 | 2614.543 | 2623.762 |
| 21 | 2458.664 | 2457.144 | 2465.844 | 2476.518 | 2484.293 |
| 22 | 2347.978 | 2340.874 | 2348.371 | 2356.272 | 2363.984 |
| 23 | 2248.777 | 2238.571 | 2244.763 | 2250.056 | 2258.781 |
| 24 | 2154.680 | 2147.247 | 2149.083 | 2153.376 | 2162.594 |
| 25 | 2068.826 | 2061.849 | 2060.051 | 2062.875 | 2070.168 |
| 26 | 1983.884 | 1977.464 | 1972.184 | 1975.210 | 1980.427 |
| 27 | 1898.093 | 1889.090 | 1882.835 | 1883.455 | 1890.534 |
| 28 | 1802.958 | 1792.511 | 1781.254 | 1781.405 | 1788.167 |
| 29 | 1690.043 | 1684.269 | 1671.581 | 1672.049 | 1681.686 |
| 30 | 1571.063 | 1563.111 | 1540.394 | 1544.763 | 1553.259 |
| 31 | 1423.022 | 1415.805 | 1398.254 | 1397.760 | 1406.865 |
| 32 | 1257.051 | 1253.568 | 1239.525 | 1245.160 | 1250.099 |
| 33 | 1081.430 | 1080.101 | 1070.983 | 1080.379 | 1085.913 |
| 34 | 905.240 | 906.506 | 903.733 | 914.711 | 919.726 |
| 35 | 740.395 | 742.067 | 745.258 | 759.085 | 762.327 |
| 36 | 595.773 | 596.685 | 606.384 | 621.086 | 624.872 |
| 37 | 474.463 | 480.111 | 489.291 | 506.538 | 506.032 |
| 38 | 379.923 | 387.343 | 399.791 | 409.072 | 411.035 |
| 39 | 319.407 | 317.596 | 328.271 | 337.376 | 339.338 |
| 40 | 266.059 | 270.402 | 281.330 | 287.053 | 292.296 |
| 41 | 234.756 | 237.314 | 243.202 | 247.128 | 249.268 |
| 42 | 212.533 | 213.900 | 218.320 | 220.802 | 221.979 |
| 43 | 195.438 | 196.312 | 199.845 | 201.276 | 202.554 |
| 44 | 181.167 | 182.041 | 184.523 | 185.738 | 186.245 |
| 45 | 168.593 | 169.555 | 171.784 | 172.379 | 172.936 |
| 46 | 156.943 | 157.969 | 159.843 | 160.641 | 161.096 |
| 47 | 145.952 | 146.901 | 148.712 | 149.523 | 149.966 |
| 48 | 135.581 | 136.543 | 138.253 | 139.190 | 139.633 |
| 49 | 125.894 | 126.755 | 128.363 | 129.351 | 129.769 |
| 50 | 116.777 | 117.473 | 119.081 | 120.044 | 120.474 |
| 51 | 108.254 | 108.926 | 110.407 | 111.395 | 111.838 |
| 52 | 100.340 | 100.910 | 102.303 | 103.303 | 103.645 |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L40-940-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-----|--------|--------|--------|--------|--------|
| 53 | 92.945 | 93.502 | 94.781 | 95.794 | 96.098 |
| 54 | 86.145 | 86.639 | 87.766 | 88.716 | 89.045 |
| 55 | 79.687 | 80.092 | 81.207 | 82.030 | 82.410 |
| 56 | 73.406 | 73.799 | 74.837 | 75.610 | 75.964 |
| 57 | 67.455 | 67.847 | 68.810 | 69.494 | 69.848 |
| 58 | 62.098 | 62.440 | 63.314 | 63.935 | 64.289 |
| 59 | 57.160 | 57.451 | 58.236 | 58.819 | 59.161 |
| 60 | 52.601 | 52.880 | 53.614 | 54.108 | 54.425 |
| 61 | 48.473 | 48.701 | 49.372 | 49.816 | 50.043 |
| 62 | 44.700 | 44.928 | 45.498 | 45.903 | 46.093 |
| 63 | 41.243 | 41.445 | 41.977 | 42.306 | 42.458 |
| 64 | 38.128 | 38.229 | 38.736 | 39.014 | 39.103 |
| 65 | 35.253 | 35.329 | 35.785 | 36.000 | 36.089 |
| 66 | 32.543 | 32.632 | 32.987 | 33.202 | 33.240 |
| 67 | 30.049 | 30.138 | 30.454 | 30.619 | 30.657 |
| 68 | 27.744 | 27.833 | 28.086 | 28.225 | 28.238 |
| 69 | 25.604 | 25.630 | 25.883 | 25.984 | 25.971 |
| 70 | 23.578 | 23.603 | 23.806 | 23.882 | 23.857 |
| 71 | 21.666 | 21.666 | 21.831 | 21.894 | 21.843 |
| 72 | 19.881 | 19.830 | 19.969 | 20.007 | 19.995 |
| 73 | 18.108 | 18.070 | 18.184 | 18.196 | 18.158 |
| 74 | 16.398 | 16.373 | 16.449 | 16.474 | 16.436 |
| 75 | 14.765 | 14.727 | 14.778 | 14.815 | 14.765 |
| 76 | 13.144 | 13.106 | 13.144 | 13.169 | 13.144 |
| 77 | 11.536 | 11.523 | 11.574 | 11.574 | 11.574 |
| 78 | 9.966 | 9.953 | 10.004 | 10.004 | 10.029 |
| 79 | 8.395 | 8.383 | 8.459 | 8.471 | 8.484 |
| 80 | 6.825 | 6.825 | 6.901 | 6.952 | 6.939 |
| 81 | 5.141 | 5.192 | 5.230 | 5.268 | 5.242 |
| 82 | 2.988 | 3.064 | 3.140 | 3.128 | 3.153 |
| 83 | 1.494 | 1.494 | 1.621 | 1.684 | 1.785 |
| 84 | 1.355 | 1.355 | 1.368 | 1.355 | 1.355 |
| 85 | 1.254 | 1.254 | 1.254 | 1.254 | 1.254 |
| 86 | 1.114 | 1.127 | 1.127 | 1.114 | 1.127 |
| 87 | 0.950 | 0.950 | 0.962 | 0.950 | 0.950 |
| 88 | 0.734 | 0.747 | 0.747 | 0.734 | 0.734 |
| 89 | 0.494 | 0.494 | 0.494 | 0.494 | 0.494 |
| 90 | 0.279 | 0.291 | 0.304 | 0.317 | 0.317 |
| 91 | 0.266 | 0.279 | 0.266 | 0.266 | 0.253 |
| 92 | 0.279 | 0.279 | 0.279 | 0.279 | 0.253 |
| 93 | 0.279 | 0.279 | 0.279 | 0.279 | 0.253 |
| 94 | 0.279 | 0.291 | 0.291 | 0.279 | 0.266 |
| 95 | 0.291 | 0.291 | 0.291 | 0.279 | 0.279 |
| 96 | 0.291 | 0.304 | 0.304 | 0.291 | 0.304 |
| 97 | 0.317 | 0.317 | 0.317 | 0.317 | 0.317 |
| 98 | 0.329 | 0.329 | 0.317 | 0.329 | 0.329 |
| 99 | 0.342 | 0.355 | 0.342 | 0.329 | 0.342 |
| 100 | 0.342 | 0.355 | 0.355 | 0.342 | 0.342 |
| 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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| | | | | | |
|-----|-------|-------|-------|-------|-------|
| 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-L40-940-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 |

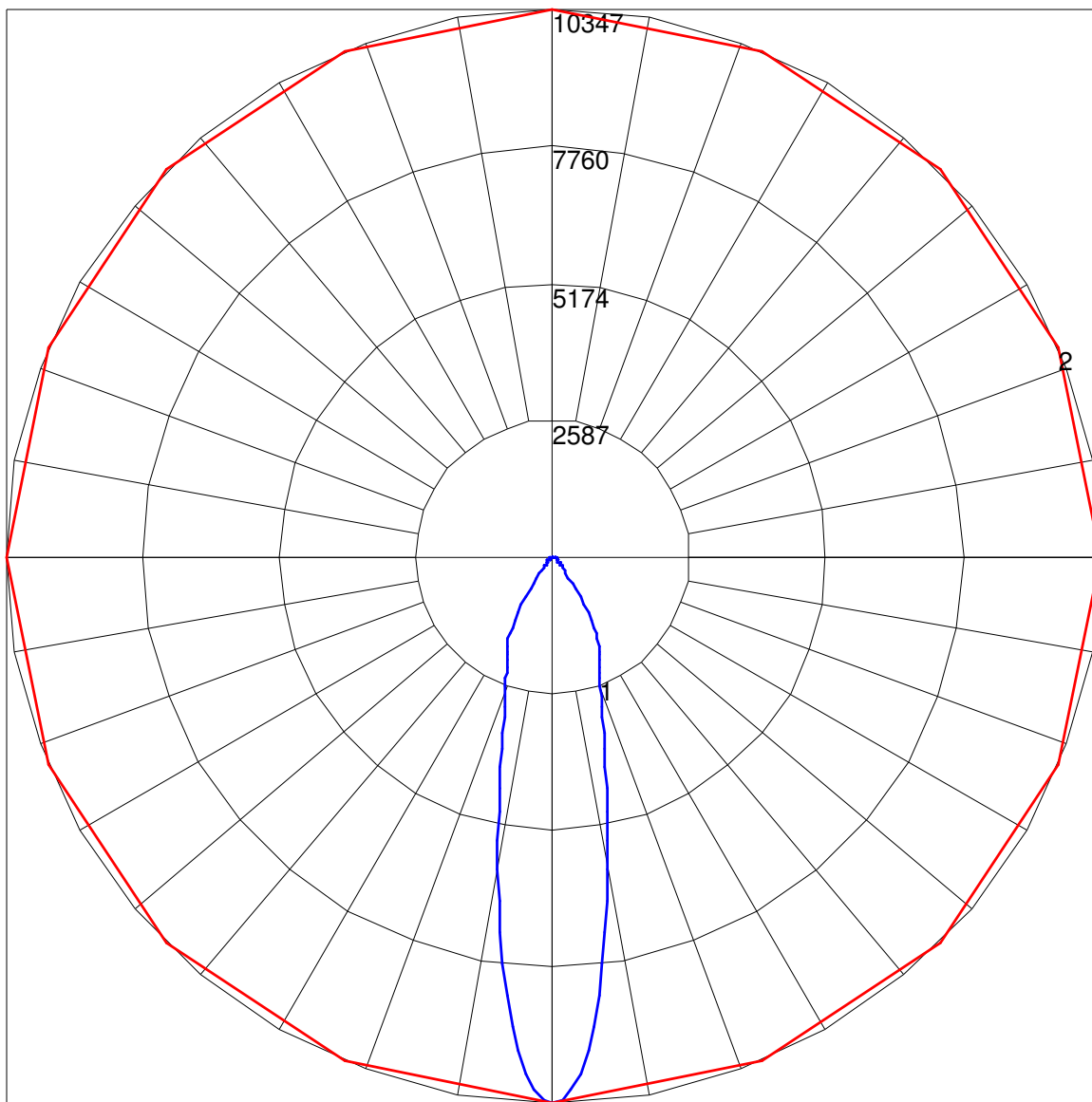
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

| | Lumens | Percent Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 1755.3 | 50.0 |
| Downward House Side | 1755.3 | 50.0 |
| Downward Total | 3510.6 | 100.0 |
| Upward Street Side | 0.2 | 0.0 |
| Upward House Side | 0.2 | 0.0 |
| Upward Total | 0.4 | 0.0 |
| Total Flux | 3511.0 | 100.0 |

POLAR GRAPH



Maximum Candela = 10347.208 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

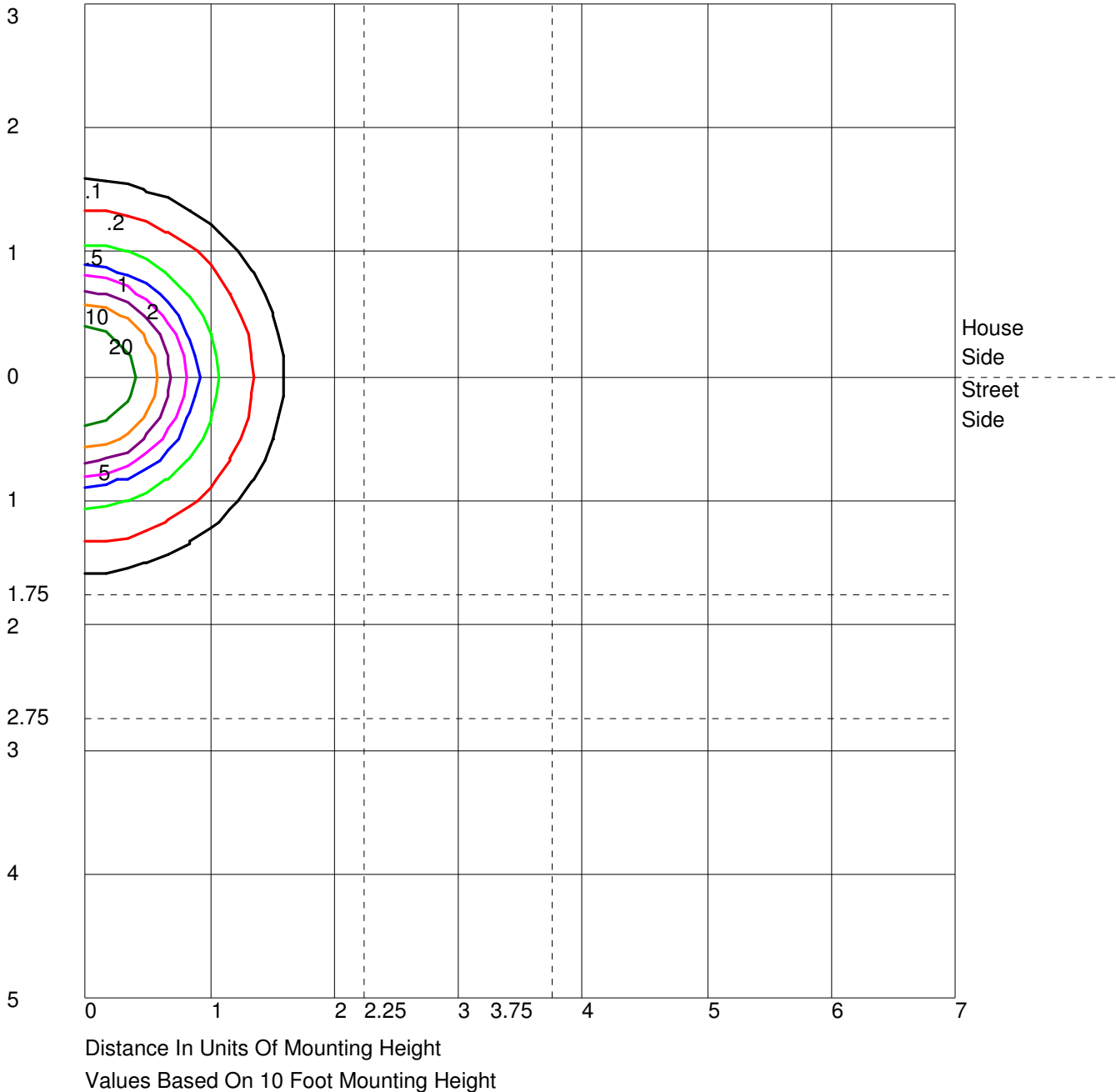


PHOTO IES R

