

IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L40-830-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-L40-830-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 | 3620 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 99 |
| Total Luminaire Watts | 36.7 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 10667.222 |
| Maximum Candela Angle | 90H 0V |
| Maximum Candela (<90 Degrees Vertical) | 10667.222 |
| Maximum Candela Angle (<90 Degrees Vertical) | 90H 0V |
| Maximum Candela At 90 Degrees Vertical | .326 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 7.167 (0.2% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L40-830-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 1419.0 | N.A. | 39.2 |
| FM - Front-Medium (30-60) | 362.8 | N.A. | 10.0 |
| FH - Front-High (60-80) | 26.8 | N.A. | 0.7 |
| FVH - Front-Very High (80-90) | 1.1 | N.A. | 0.0 |
| BL - Back-Low (0-30) | 1419.0 | N.A. | 39.2 |
| BM - Back-Medium (30-60) | 362.8 | N.A. | 10.0 |
| BH - Back-High (60-80) | 26.8 | 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 | 3619.7 | N.A. | 100.0 |
| BUG Rating | B3-U1-G0 | | |

IES ROAD REPORT

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CANDELA TABULATION

| Vert. Angles | Horizontal Angles | | | | |
|-----------------|-------------------|-----------|-----------|-----------|-----------|
| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
| 0 | 10667.222 | 10667.222 | 10667.222 | 10667.222 | 10667.222 |
| 1 | 10598.607 | 10595.631 | 10597.472 | 10597.380 | 10593.516 |
| 2 | 10411.446 | 10408.665 | 10407.373 | 10408.065 | 10404.148 |
| 3 | 10111.820 | 10105.919 | 10104.758 | 10106.794 | 10098.217 |
| 4 | 9699.939 | 9696.675 | 9691.245 | 9692.472 | 9687.159 |
| 5 | 9185.267 | 9183.257 | 9190.058 | 9190.711 | 9193.544 |
| 6 | 8603.901 | 8601.877 | 8612.046 | 8624.696 | 8635.727 |
| 7 | 7976.856 | 7980.172 | 7999.466 | 8020.589 | 8029.113 |
| 8 | 7325.596 | 7334.721 | 7359.733 | 7390.633 | 7400.646 |
| 9 | 6689.975 | 6698.121 | 6728.198 | 6767.740 | 6785.925 |
| 10 | 6085.162 | 6093.230 | 6128.007 | 6168.449 | 6191.216 |
| 11 | 5522.293 | 5529.147 | 5562.201 | 5604.719 | 5629.653 |
| 12 | 5008.274 | 5016.642 | 5047.777 | 5088.938 | 5106.809 |
| 13 | 4549.737 | 4558.614 | 4591.485 | 4635.674 | 4642.436 |
| 14 | 4146.263 | 4160.349 | 4192.998 | 4220.256 | 4232.736 |
| 15 | 3806.051 | 3807.670 | 3830.698 | 3860.997 | 3877.641 |
| 16 | 3487.979 | 3497.744 | 3528.944 | 3556.580 | 3578.342 |
| 17 | 3228.653 | 3236.433 | 3255.362 | 3283.168 | 3297.280 |
| 18 | 3007.967 | 3014.351 | 3031.073 | 3055.590 | 3066.738 |
| 19 | 2823.077 | 2828.012 | 2842.384 | 2860.700 | 2872.344 |
| 20 | 2668.917 | 2670.666 | 2681.567 | 2695.404 | 2704.908 |
| 21 | 2534.704 | 2533.138 | 2542.106 | 2553.111 | 2561.126 |
| 22 | 2420.595 | 2413.272 | 2421.000 | 2429.146 | 2437.096 |
| 23 | 2318.327 | 2307.805 | 2314.188 | 2319.645 | 2328.640 |
| 24 | 2221.319 | 2213.656 | 2215.549 | 2219.974 | 2229.478 |
| 25 | 2132.810 | 2125.617 | 2123.763 | 2126.674 | 2134.194 |
| 26 | 2045.241 | 2038.622 | 2033.178 | 2036.298 | 2041.677 |
| 27 | 1956.797 | 1947.515 | 1941.066 | 1941.706 | 1949.003 |
| 28 | 1858.719 | 1847.949 | 1836.343 | 1836.500 | 1843.471 |
| 29 | 1742.312 | 1736.359 | 1723.279 | 1723.762 | 1733.696 |
| 30 | 1619.653 | 1611.454 | 1588.035 | 1592.538 | 1601.298 |
| 31 | 1467.033 | 1459.592 | 1441.498 | 1440.989 | 1450.375 |
| 32 | 1295.928 | 1292.338 | 1277.861 | 1283.670 | 1288.761 |
| 33 | 1114.876 | 1113.505 | 1104.106 | 1113.793 | 1119.497 |
| 34 | 933.236 | 934.542 | 931.683 | 943.001 | 948.171 |
| 35 | 763.294 | 765.017 | 768.307 | 782.562 | 785.904 |
| 36 | 614.199 | 615.139 | 625.138 | 640.295 | 644.198 |
| 37 | 489.137 | 494.959 | 504.424 | 522.204 | 521.682 |
| 38 | 391.673 | 399.323 | 412.155 | 421.724 | 423.747 |
| 39 | 329.285 | 327.419 | 338.424 | 347.810 | 349.833 |
| 40 | 274.287 | 278.765 | 290.031 | 295.931 | 301.336 |
| 41 | 242.016 | 244.653 | 250.724 | 254.771 | 256.977 |
| 42 | 219.106 | 220.516 | 225.072 | 227.630 | 228.845 |
| 43 | 201.482 | 202.383 | 206.025 | 207.500 | 208.819 |
| 44 | 186.770 | 187.671 | 190.229 | 191.483 | 192.005 |
| 45 | 173.807 | 174.799 | 177.097 | 177.710 | 178.285 |
| 46 | 161.797 | 162.854 | 164.786 | 165.609 | 166.079 |
| 47 | 150.466 | 151.445 | 153.311 | 154.147 | 154.604 |
| 48 | 139.774 | 140.766 | 142.528 | 143.495 | 143.951 |
| 49 | 129.787 | 130.675 | 132.333 | 133.351 | 133.782 |
| 50 | 120.388 | 121.106 | 122.764 | 123.756 | 124.200 |
| 51 | 111.602 | 112.294 | 113.822 | 114.840 | 115.297 |
| 52 | 103.443 | 104.031 | 105.467 | 106.498 | 106.851 |

IES ROAD REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L40-830-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-----|--------|--------|--------|--------|--------|
| 53 | 95.820 | 96.394 | 97.713 | 98.757 | 99.070 |
| 54 | 88.809 | 89.319 | 90.480 | 91.459 | 91.799 |
| 55 | 82.152 | 82.569 | 83.718 | 84.567 | 84.958 |
| 56 | 75.677 | 76.081 | 77.152 | 77.948 | 78.314 |
| 57 | 69.541 | 69.946 | 70.938 | 71.643 | 72.008 |
| 58 | 64.019 | 64.371 | 65.272 | 65.912 | 66.277 |
| 59 | 58.928 | 59.228 | 60.037 | 60.638 | 60.990 |
| 60 | 54.228 | 54.515 | 55.273 | 55.782 | 56.108 |
| 61 | 49.972 | 50.207 | 50.899 | 51.356 | 51.591 |
| 62 | 46.082 | 46.317 | 46.905 | 47.322 | 47.518 |
| 63 | 42.518 | 42.727 | 43.276 | 43.615 | 43.772 |
| 64 | 39.307 | 39.411 | 39.934 | 40.221 | 40.312 |
| 65 | 36.344 | 36.422 | 36.892 | 37.114 | 37.205 |
| 66 | 33.550 | 33.641 | 34.007 | 34.229 | 34.268 |
| 67 | 30.978 | 31.070 | 31.396 | 31.566 | 31.605 |
| 68 | 28.602 | 28.694 | 28.955 | 29.098 | 29.111 |
| 69 | 26.396 | 26.422 | 26.683 | 26.788 | 26.775 |
| 70 | 24.307 | 24.333 | 24.542 | 24.621 | 24.595 |
| 71 | 22.336 | 22.336 | 22.506 | 22.571 | 22.519 |
| 72 | 20.495 | 20.443 | 20.587 | 20.626 | 20.613 |
| 73 | 18.668 | 18.629 | 18.746 | 18.759 | 18.720 |
| 74 | 16.906 | 16.879 | 16.958 | 16.984 | 16.945 |
| 75 | 15.221 | 15.182 | 15.235 | 15.274 | 15.221 |
| 76 | 13.551 | 13.511 | 13.551 | 13.577 | 13.551 |
| 77 | 11.893 | 11.880 | 11.932 | 11.932 | 11.932 |
| 78 | 10.274 | 10.261 | 10.313 | 10.313 | 10.339 |
| 79 | 8.655 | 8.642 | 8.720 | 8.733 | 8.746 |
| 80 | 7.036 | 7.036 | 7.115 | 7.167 | 7.154 |
| 81 | 5.300 | 5.352 | 5.391 | 5.431 | 5.405 |
| 82 | 3.081 | 3.159 | 3.238 | 3.224 | 3.251 |
| 83 | 1.540 | 1.540 | 1.671 | 1.736 | 1.841 |
| 84 | 1.397 | 1.397 | 1.410 | 1.397 | 1.397 |
| 85 | 1.292 | 1.292 | 1.292 | 1.292 | 1.292 |
| 86 | 1.149 | 1.162 | 1.162 | 1.149 | 1.162 |
| 87 | 0.979 | 0.979 | 0.992 | 0.979 | 0.979 |
| 88 | 0.757 | 0.770 | 0.770 | 0.757 | 0.757 |
| 89 | 0.509 | 0.509 | 0.509 | 0.509 | 0.509 |
| 90 | 0.287 | 0.300 | 0.313 | 0.326 | 0.326 |
| 91 | 0.274 | 0.287 | 0.274 | 0.274 | 0.261 |
| 92 | 0.287 | 0.287 | 0.287 | 0.287 | 0.261 |
| 93 | 0.287 | 0.287 | 0.287 | 0.287 | 0.261 |
| 94 | 0.287 | 0.300 | 0.300 | 0.287 | 0.274 |
| 95 | 0.300 | 0.300 | 0.300 | 0.287 | 0.287 |
| 96 | 0.300 | 0.313 | 0.313 | 0.300 | 0.313 |
| 97 | 0.326 | 0.326 | 0.326 | 0.326 | 0.326 |
| 98 | 0.339 | 0.339 | 0.326 | 0.339 | 0.339 |
| 99 | 0.352 | 0.366 | 0.352 | 0.339 | 0.352 |
| 100 | 0.352 | 0.366 | 0.366 | 0.352 | 0.352 |
| 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-L40-830-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 |

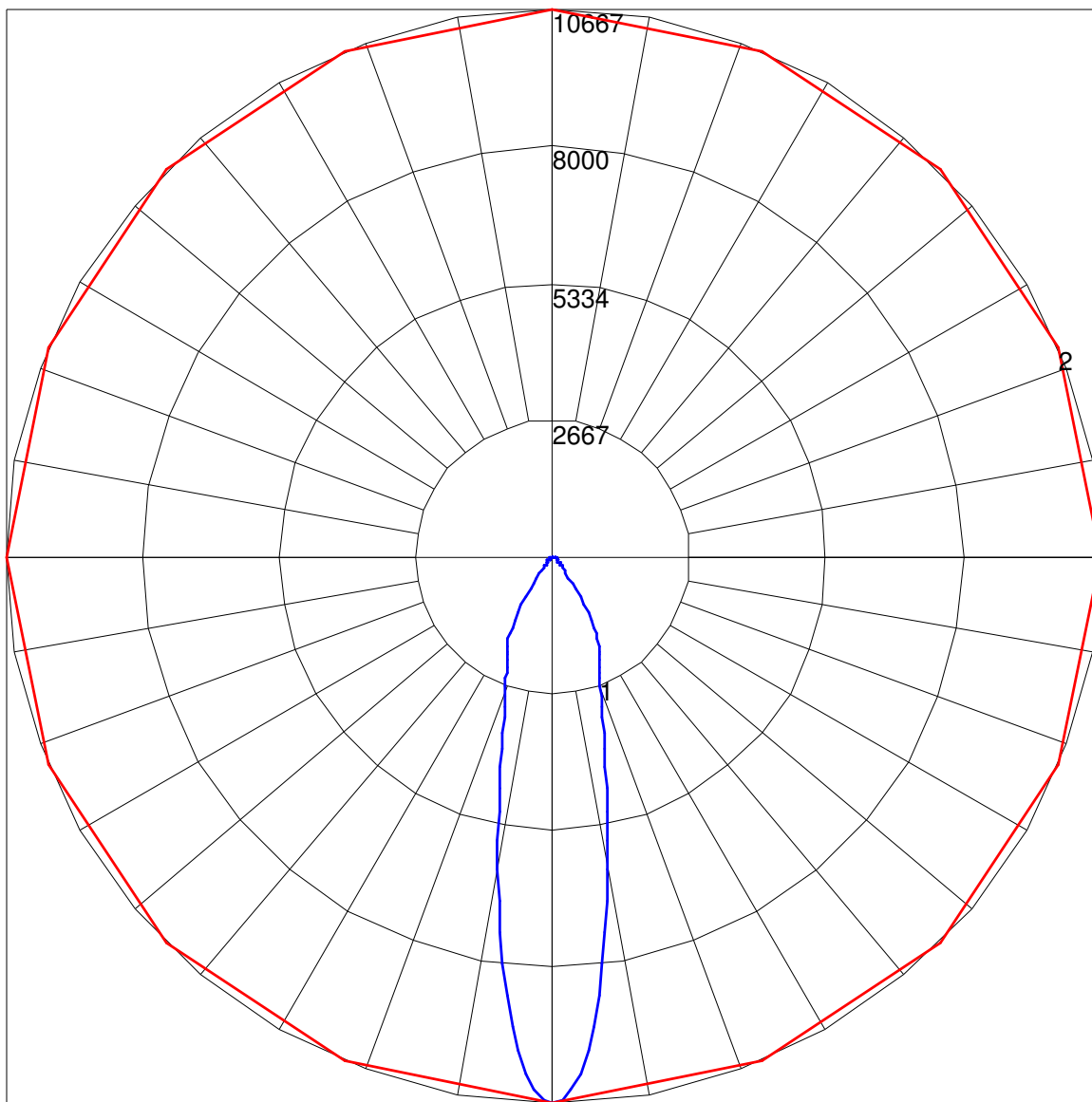
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

| | Lumens | Percent Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 1809.6 | 50.0 |
| Downward House Side | 1809.6 | 50.0 |
| Downward Total | 3619.2 | 100.0 |
| Upward Street Side | 0.2 | 0.0 |
| Upward House Side | 0.2 | 0.0 |
| Upward Total | 0.4 | 0.0 |
| Total Flux | 3619.6 | 100.0 |

POLAR GRAPH



Maximum Candela = 10667.222 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

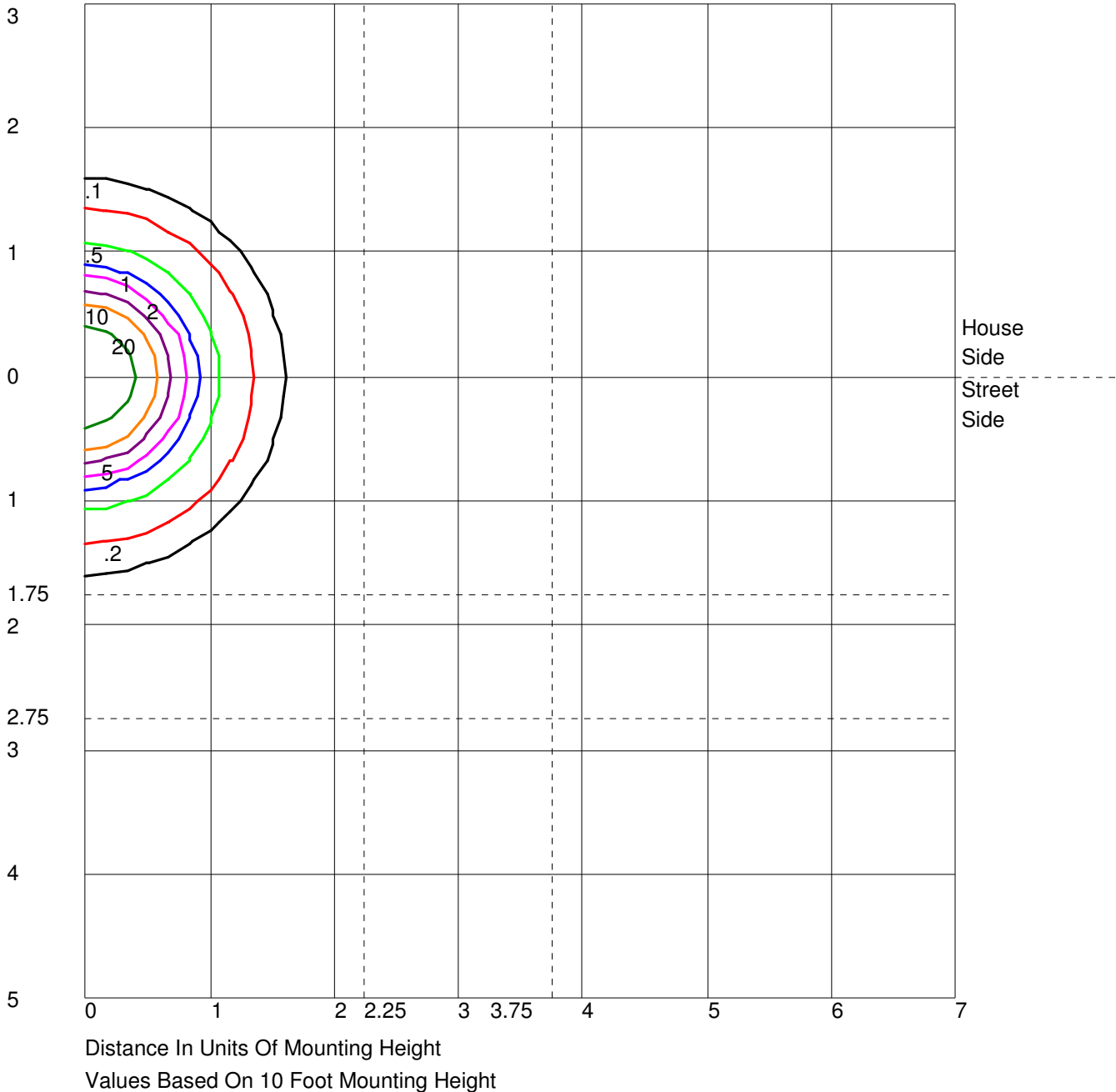


PHOTO IES R

