

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L10-930-XXX-DIM-UNV-S-XXX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] W6CR\_Angela-S\_(V18)\_measured  
[TESTLAB] LEDIL Inc  
[TESTDATE] 21 Aug 2024  
[ISSUEDATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] W6CR-xx-L10-930-xxx-DIM-UNV-S-xxx  
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED  
[MORE] CYLINDER WITH SPOT DISTRIBUTION  
[LAMPCAT] BL VERO  
[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                                | 1025                          |
| Downward Total Efficiency                       | N.A. (absolute)               |
| Total Luminaire Efficiency                      | N.A. (absolute)               |
| Luminaire Efficacy Rating (LER)                 | 102                           |
| Total Luminaire Watts                           | 10.1                          |
| Ballast Factor                                  | 1.00                          |
| Upward Waste Light Ratio                        | 0.00                          |
| Maximum Candela                                 | 10174.025                     |
| Maximum Candela Angle                           | 90H 0V                        |
| Maximum Candela (<90 Degrees Vertical)          | 10174.025                     |
| Maximum Candela Angle (<90 Degrees Vertical)    | 90H 0V                        |
| Maximum Candela At 90 Degrees Vertical          | .072 (0.0% Luminaire Lumens)  |
| Maximum Candela from 80 to <90 Degrees Vertical | 1.663 (0.2% Luminaire Lumens) |
| Cutoff Classification (deprecated)              | N.A. (absolute)               |

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L10-930-XXX-DIM-UNV-S-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

|                               | Lumens   | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30)         | 453.2    | N.A.   | 44.2        |
| FM - Front-Medium (30-60)     | 54.2     | N.A.   | 5.3         |
| FH - Front-High (60-80)       | 5.0      | N.A.   | 0.5         |
| FVH - Front-Very High (80-90) | 0.3      | N.A.   | 0.0         |
| BL - Back-Low (0-30)          | 453.2    | N.A.   | 44.2        |
| BM - Back-Medium (30-60)      | 54.2     | N.A.   | 5.3         |
| BH - Back-High (60-80)        | 5.0      | N.A.   | 0.5         |
| BVH - Back-Very High (80-90)  | 0.3      | N.A.   | 0.0         |
| UL - Uplight-Low (90-100)     | 0.1      | N.A.   | 0.0         |
| UH - Uplight-High (100-180)   | < 0.05   | N.A.   | 0.0         |
| Total                         | 1025.5   | N.A.   | 100.0       |
| BUG Rating                    | B1-U1-G0 |        |             |

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## CANDELA TABULATION

| Vert.<br>Angles | Horizontal Angles |           |           |           |           |
|-----------------|-------------------|-----------|-----------|-----------|-----------|
|                 | 0.0               | 22.5      | 45.0      | 67.5      | 90.0      |
| 0               | 10174.025         | 10174.025 | 10174.025 | 10174.025 | 10174.025 |
| 1               | 9999.023          | 10002.991 | 10003.402 | 10004.587 | 10005.634 |
| 2               | 9576.308          | 9554.689  | 9588.740  | 9567.230  | 9586.353  |
| 3               | 8886.203          | 8879.193  | 8885.574  | 8935.343  | 8922.018  |
| 4               | 7910.778          | 8000.165  | 8018.570  | 8017.263  | 8035.925  |
| 5               | 6887.118          | 6899.175  | 6924.962  | 7002.961  | 7007.896  |
| 6               | 5721.901          | 5742.597  | 5844.006  | 5894.002  | 5952.674  |
| 7               | 4635.980          | 4611.800  | 4707.908  | 4820.787  | 4830.237  |
| 8               | 3566.196          | 3616.159  | 3719.405  | 3796.795  | 3831.349  |
| 9               | 2718.806          | 2766.435  | 2846.531  | 2933.729  | 2975.580  |
| 10              | 2063.934          | 2082.513  | 2177.791  | 2252.955  | 2290.397  |
| 11              | 1569.900          | 1590.096  | 1665.635  | 1739.868  | 1757.868  |
| 12              | 1217.182          | 1244.372  | 1302.174  | 1342.241  | 1363.573  |
| 13              | 995.904           | 992.457   | 1027.631  | 1065.991  | 1084.719  |
| 14              | 800.976           | 808.318   | 842.069   | 879.755   | 885.639   |
| 15              | 679.852           | 683.994   | 718.048   | 732.183   | 758.427   |
| 16              | 594.679           | 597.250   | 616.719   | 634.330   | 643.075   |
| 17              | 534.265           | 535.924   | 550.662   | 564.809   | 572.105   |
| 18              | 491.469           | 492.724   | 504.053   | 515.679   | 521.164   |
| 19              | 462.281           | 463.434   | 472.518   | 480.811   | 487.061   |
| 20              | 444.248           | 443.284   | 449.958   | 456.437   | 461.027   |
| 21              | 429.794           | 429.857   | 434.002   | 438.796   | 442.928   |
| 22              | 420.519           | 419.604   | 423.078   | 425.834   | 430.137   |
| 23              | 412.874           | 411.136   | 413.852   | 416.144   | 420.147   |
| 24              | 405.160           | 403.408   | 405.041   | 406.526   | 410.665   |
| 25              | 396.738           | 395.427   | 395.727   | 397.136   | 400.751   |
| 26              | 387.009           | 385.553   | 385.254   | 386.541   | 389.564   |
| 27              | 375.630           | 373.417   | 372.634   | 373.420   | 376.960   |
| 28              | 360.550           | 358.035   | 356.270   | 356.991   | 360.814   |
| 29              | 340.891           | 338.705   | 335.020   | 336.202   | 339.669   |
| 30              | 315.453           | 313.494   | 308.944   | 310.211   | 313.158   |
| 31              | 283.638           | 282.034   | 277.642   | 279.051   | 281.949   |
| 32              | 246.591           | 245.804   | 242.106   | 244.319   | 246.801   |
| 33              | 206.350           | 206.238   | 203.746   | 206.564   | 209.066   |
| 34              | 165.487           | 166.086   | 165.108   | 168.282   | 170.287   |
| 35              | 127.317           | 128.618   | 128.427   | 133.030   | 133.425   |
| 36              | 94.079            | 94.847    | 97.171    | 100.095   | 101.471   |
| 37              | 68.128            | 66.831    | 71.246    | 74.157    | 77.400    |
| 38              | 46.967            | 46.529    | 49.542    | 52.538    | 53.434    |
| 39              | 31.555            | 33.794    | 35.941    | 37.492    | 38.196    |
| 40              | 23.018            | 24.127    | 25.770    | 28.006    | 27.881    |
| 41              | 18.319            | 18.843    | 19.972    | 20.851    | 21.309    |
| 42              | 15.787            | 15.929    | 16.653    | 17.128    | 17.381    |
| 43              | 14.421            | 14.441    | 14.839    | 15.037    | 15.182    |
| 44              | 13.657            | 13.687    | 13.842    | 13.881    | 13.967    |
| 45              | 13.213            | 13.246    | 13.269    | 13.246    | 13.308    |
| 46              | 12.916            | 12.936    | 12.893    | 12.847    | 12.900    |
| 47              | 12.683            | 12.679    | 12.604    | 12.554    | 12.574    |
| 48              | 12.498            | 12.469    | 12.363    | 12.324    | 12.317    |
| 49              | 12.350            | 12.294    | 12.169    | 12.110    | 12.090    |
| 50              | 12.235            | 12.149    | 12.001    | 11.929    | 11.889    |
| 51              | 12.146            | 12.041    | 11.853    | 11.774    | 11.721    |
| 52              | 12.090            | 11.952    | 11.738    | 11.642    | 11.576    |

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|     |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|
| 53  | 12.047 | 11.883 | 11.639 | 11.524 | 11.468 |
| 54  | 11.995 | 11.810 | 11.527 | 11.392 | 11.326 |
| 55  | 11.817 | 11.622 | 11.333 | 11.178 | 11.142 |
| 56  | 11.507 | 11.320 | 11.013 | 10.862 | 10.878 |
| 57  | 11.109 | 10.954 | 10.628 | 10.493 | 10.556 |
| 58  | 10.661 | 10.533 | 10.203 | 10.088 | 10.180 |
| 59  | 10.141 | 10.039 | 9.726  | 9.631  | 9.756  |
| 60  | 9.578  | 9.486  | 9.216  | 9.143  | 9.275  |
| 61  | 8.988  | 8.900  | 8.682  | 8.630  | 8.748  |
| 62  | 8.389  | 8.307  | 8.142  | 8.106  | 8.205  |
| 63  | 7.800  | 7.727  | 7.612  | 7.579  | 7.652  |
| 64  | 7.224  | 7.151  | 7.095  | 7.066  | 7.122  |
| 65  | 6.697  | 6.624  | 6.608  | 6.578  | 6.628  |
| 66  | 6.193  | 6.134  | 6.134  | 6.114  | 6.154  |
| 67  | 5.732  | 5.693  | 5.703  | 5.686  | 5.719  |
| 68  | 5.324  | 5.294  | 5.311  | 5.291  | 5.321  |
| 69  | 4.949  | 4.929  | 4.942  | 4.929  | 4.949  |
| 70  | 4.603  | 4.596  | 4.603  | 4.590  | 4.603  |
| 71  | 4.284  | 4.284  | 4.287  | 4.270  | 4.277  |
| 72  | 3.994  | 3.984  | 3.987  | 3.971  | 3.971  |
| 73  | 3.711  | 3.697  | 3.694  | 3.678  | 3.678  |
| 74  | 3.434  | 3.414  | 3.414  | 3.395  | 3.398  |
| 75  | 3.154  | 3.134  | 3.131  | 3.108  | 3.118  |
| 76  | 2.868  | 2.851  | 2.851  | 2.828  | 2.841  |
| 77  | 2.581  | 2.571  | 2.568  | 2.552  | 2.565  |
| 78  | 2.292  | 2.275  | 2.275  | 2.262  | 2.278  |
| 79  | 1.982  | 1.969  | 1.975  | 1.966  | 1.989  |
| 80  | 1.646  | 1.643  | 1.646  | 1.653  | 1.663  |
| 81  | 1.264  | 1.271  | 1.268  | 1.271  | 1.271  |
| 82  | 0.721  | 0.741  | 0.761  | 0.754  | 0.770  |
| 83  | 0.342  | 0.346  | 0.385  | 0.402  | 0.425  |
| 84  | 0.313  | 0.313  | 0.313  | 0.309  | 0.309  |
| 85  | 0.290  | 0.286  | 0.286  | 0.283  | 0.286  |
| 86  | 0.260  | 0.257  | 0.257  | 0.257  | 0.257  |
| 87  | 0.221  | 0.221  | 0.221  | 0.217  | 0.217  |
| 88  | 0.175  | 0.175  | 0.175  | 0.171  | 0.168  |
| 89  | 0.119  | 0.119  | 0.115  | 0.115  | 0.112  |
| 90  | 0.066  | 0.069  | 0.072  | 0.072  | 0.072  |
| 91  | 0.066  | 0.066  | 0.063  | 0.059  | 0.059  |
| 92  | 0.066  | 0.066  | 0.063  | 0.063  | 0.059  |
| 93  | 0.069  | 0.069  | 0.063  | 0.063  | 0.059  |
| 94  | 0.072  | 0.069  | 0.066  | 0.063  | 0.063  |
| 95  | 0.072  | 0.069  | 0.066  | 0.066  | 0.063  |
| 96  | 0.076  | 0.069  | 0.069  | 0.066  | 0.066  |
| 97  | 0.076  | 0.069  | 0.072  | 0.069  | 0.069  |
| 98  | 0.076  | 0.072  | 0.072  | 0.069  | 0.069  |
| 99  | 0.076  | 0.072  | 0.072  | 0.069  | 0.072  |
| 100 | 0.076  | 0.076  | 0.076  | 0.072  | 0.072  |
| 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  |

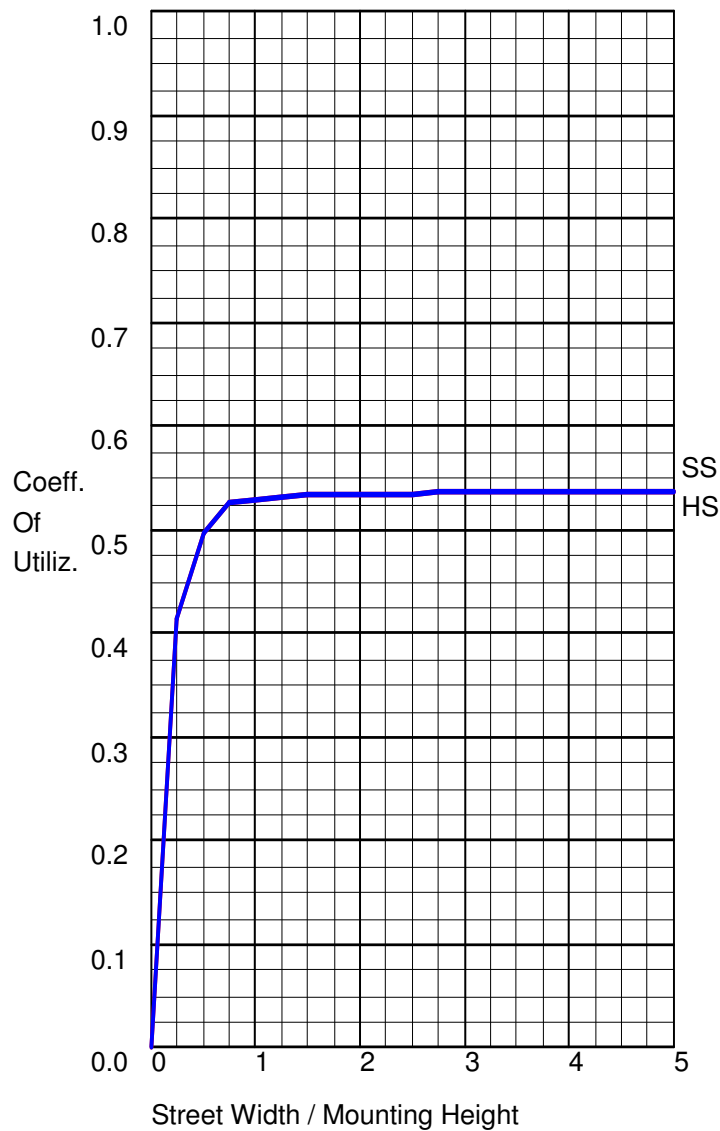
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|     |       |       |       |       |       |
|-----|-------|-------|-------|-------|-------|
| 109 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 111 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112 | 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 |

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|     |       |       |       |       |       |
|-----|-------|-------|-------|-------|-------|
| 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 |

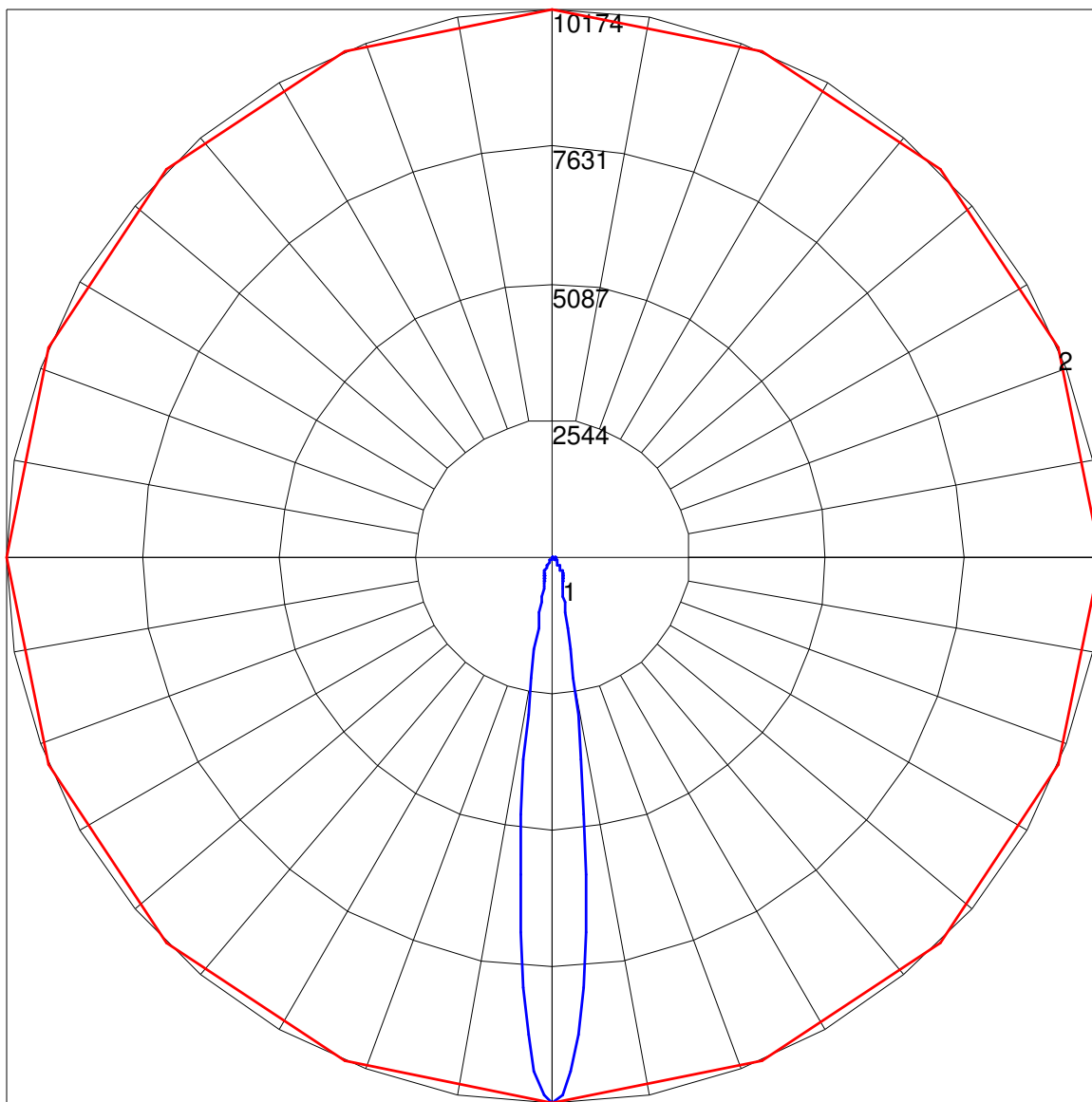
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

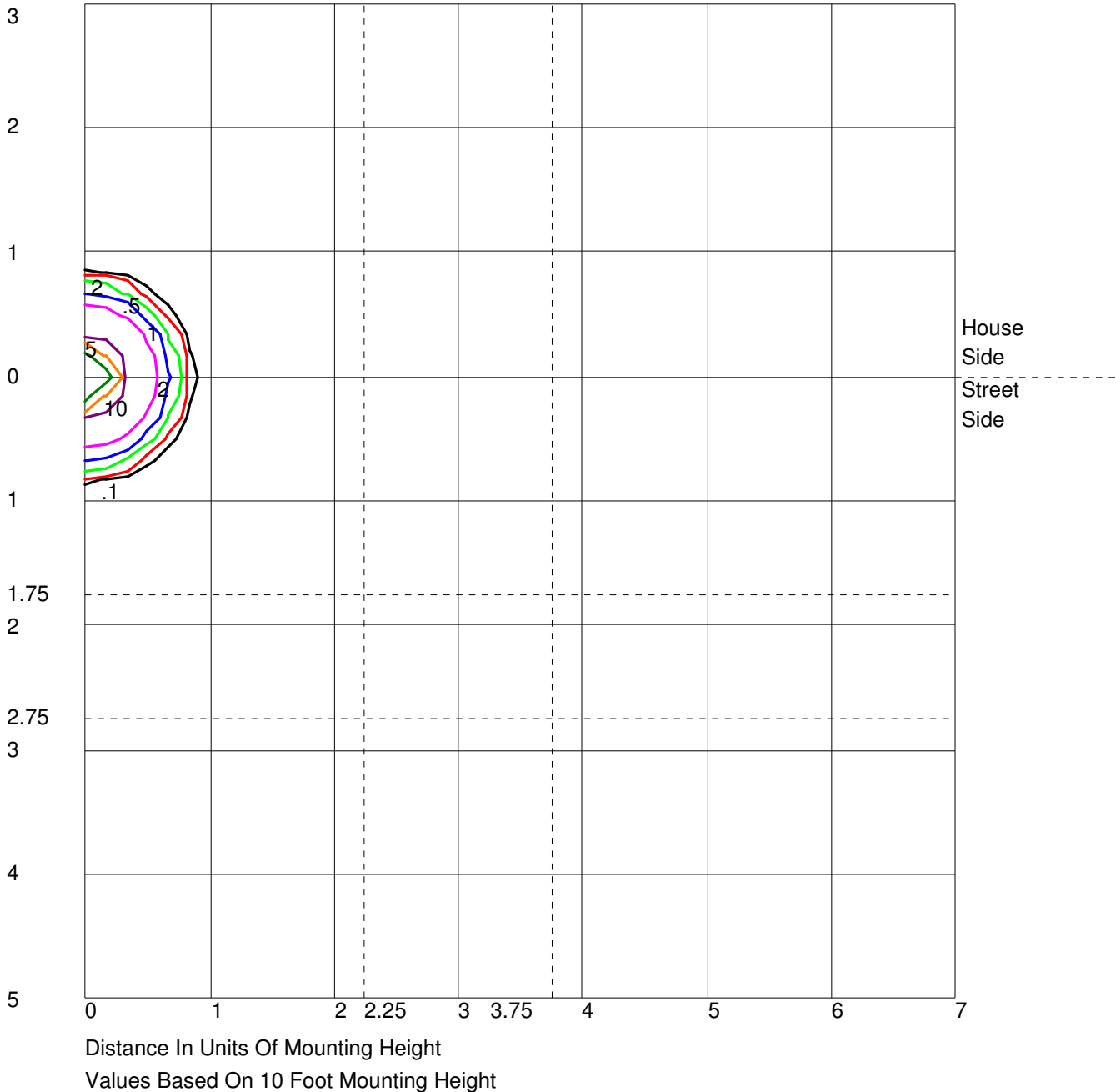
|                      | Lumens | Percent Of Luminaire |
|----------------------|--------|----------------------|
| Downward Street Side | 512.6  | 50.0                 |
| Downward House Side  | 512.6  | 50.0                 |
| Downward Total       | 1025.2 | 100.0                |
| Upward Street Side   | 0.0    | 0.0                  |
| Upward House Side    | 0.0    | 0.0                  |
| Upward Total         | 0.0    | 0.0                  |
| Total Flux           | 1025.2 | 100.0                |

POLAR GRAPH



Maximum Candela = 10174.025 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

