

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L20-927-XXX-DIM-UNV-M-XXX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM W6CR\_Angela-W\_(V18)\_measured  
[TESTLAB] LEDIL Inc  
[TESTDATE] 21 Aug 2024  
[ISSUEDATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] W6CR-xx-L20-927-xxx-DIM-UNV-M-xxx  
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED  
[MORE] CYLINDER WITH MEDIUM DIST.  
[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                                | 1840                          |
| Downward Total Efficiency                       | N.A. (absolute)               |
| Total Luminaire Efficiency                      | N.A. (absolute)               |
| Luminaire Efficacy Rating (LER)                 | 92                            |
| Total Luminaire Watts                           | 20.1                          |
| Ballast Factor                                  | 1.00                          |
| Upward Waste Light Ratio                        | 0.00                          |
| Maximum Candela                                 | 3916.625                      |
| Maximum Candela Angle                           | 0H 2V                         |
| Maximum Candela (<90 Degrees Vertical)          | 3916.625                      |
| Maximum Candela Angle (<90 Degrees Vertical)    | 0H 2V                         |
| Maximum Candela At 90 Degrees Vertical          | .141 (0.0% Luminaire Lumens)  |
| Maximum Candela from 80 to <90 Degrees Vertical | 3.056 (0.2% Luminaire Lumens) |
| Cutoff Classification (deprecated)              | N.A. (absolute)               |

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L20-927-XXX-DIM-UNV-M-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

|                               | Lumens   | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30)         | 770.4    | N.A.   | 41.9        |
| FM - Front-Medium (30-60)     | 139.2    | N.A.   | 7.6         |
| FH - Front-High (60-80)       | 9.7      | N.A.   | 0.5         |
| FVH - Front-Very High (80-90) | 0.4      | N.A.   | 0.0         |
| BL - Back-Low (0-30)          | 770.4    | N.A.   | 41.9        |
| BM - Back-Medium (30-60)      | 139.2    | N.A.   | 7.6         |
| BH - Back-High (60-80)        | 9.7      | N.A.   | 0.5         |
| BVH - Back-Very High (80-90)  | 0.4      | 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                         | 1839.5   | N.A.   | 100.0       |
| BUG Rating                    | B2-U1-G0 |        |             |

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## CANDELA TABULATION

| Vert.<br>Angles | Horizontal Angles |             |             |             |             |
|-----------------|-------------------|-------------|-------------|-------------|-------------|
|                 | <u>0.0</u>        | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
| 0               | 3907.745          | 3907.745    | 3907.745    | 3907.745    | 3907.745    |
| 1               | 3912.769          | 3912.671    | 3910.905    | 3909.646    | 3908.063    |
| 2               | 3916.625          | 3914.187    | 3909.365    | 3904.757    | 3900.069    |
| 3               | 3914.486          | 3911.522    | 3902.868    | 3894.251    | 3886.734    |
| 4               | 3907.654          | 3901.341    | 3888.256    | 3875.410    | 3867.630    |
| 5               | 3883.110          | 3875.434    | 3858.163    | 3840.685    | 3832.074    |
| 6               | 3840.269          | 3830.087    | 3806.473    | 3784.967    | 3774.003    |
| 7               | 3768.753          | 3756.286    | 3729.829    | 3708.219    | 3692.159    |
| 8               | 3668.795          | 3656.462    | 3629.901    | 3610.021    | 3589.548    |
| 9               | 3539.905          | 3530.542    | 3507.795    | 3489.724    | 3468.670    |
| 10              | 3386.330          | 3383.849    | 3364.849    | 3350.780    | 3334.897    |
| 11              | 3215.259          | 3217.184    | 3205.658    | 3195.654    | 3181.805    |
| 12              | 3035.559          | 3036.671    | 3032.564    | 3029.411    | 3016.155    |
| 13              | 2850.474          | 2851.782    | 2854.905    | 2855.394    | 2842.866    |
| 14              | 2660.470          | 2661.692    | 2671.966    | 2675.859    | 2665.157    |
| 15              | 2470.227          | 2472.702    | 2486.258    | 2493.781    | 2485.047    |
| 16              | 2283.438          | 2287.013    | 2301.014    | 2311.391    | 2304.840    |
| 17              | 2102.118          | 2110.044    | 2119.816    | 2133.530    | 2127.755    |
| 18              | 1930.386          | 1938.863    | 1948.226    | 1960.259    | 1956.739    |
| 19              | 1770.078          | 1775.969    | 1787.544    | 1798.239    | 1793.179    |
| 20              | 1626.160          | 1626.300    | 1637.771    | 1648.980    | 1645.404    |
| 21              | 1488.707          | 1489.025    | 1499.280    | 1510.617    | 1505.581    |
| 22              | 1368.117          | 1365.819    | 1376.654    | 1386.078    | 1383.450    |
| 23              | 1263.648          | 1259.993    | 1270.224    | 1277.295    | 1277.270    |
| 24              | 1171.622          | 1168.475    | 1176.633    | 1182.176    | 1182.616    |
| 25              | 1089.967          | 1088.317    | 1093.176    | 1098.609    | 1098.291    |
| 26              | 1018.573          | 1016.172    | 1018.121    | 1023.450    | 1021.201    |
| 27              | 951.708           | 948.127     | 949.307     | 952.808     | 951.996     |
| 28              | 885.968           | 881.506     | 880.119     | 884.140     | 889.445     |
| 29              | 817.171           | 814.238     | 811.384     | 813.553     | 816.139     |
| 30              | 747.061           | 741.506     | 736.012     | 740.412     | 741.848     |
| 31              | 665.871           | 662.131     | 656.991     | 659.607     | 661.642     |
| 32              | 579.602           | 577.726     | 572.549     | 577.408     | 577.854     |
| 33              | 489.868           | 489.202     | 485.840     | 490.980     | 492.141     |
| 34              | 401.087           | 401.570     | 400.256     | 405.567     | 406.294     |
| 35              | 319.169           | 319.554     | 320.092     | 326.576     | 326.638     |
| 36              | 247.831           | 249.517     | 251.033     | 258.483     | 257.529     |
| 37              | 188.562           | 190.848     | 194.900     | 199.098     | 199.214     |
| 38              | 146.907           | 144.230     | 149.021     | 155.023     | 153.800     |
| 39              | 110.721           | 112.725     | 118.770     | 119.680     | 123.622     |
| 40              | 90.449            | 90.975      | 93.762      | 96.322      | 97.777      |
| 41              | 75.543            | 76.992      | 78.917      | 79.516      | 80.139      |
| 42              | 66.156            | 66.505      | 67.916      | 69.090      | 68.576      |
| 43              | 59.275            | 59.574      | 60.473      | 60.619      | 60.454      |
| 44              | 53.915            | 54.282      | 54.783      | 54.667      | 54.361      |
| 45              | 49.454            | 49.863      | 50.163      | 49.888      | 49.600      |
| 46              | 45.524            | 45.891      | 46.141      | 45.799      | 45.512      |
| 47              | 41.876            | 42.248      | 42.462      | 42.132      | 41.772      |
| 48              | 38.588            | 38.936      | 39.131      | 38.808      | 38.435      |
| 49              | 35.642            | 35.929      | 36.100      | 35.789      | 35.397      |
| 50              | 32.953            | 33.173      | 33.344      | 33.044      | 32.672      |
| 51              | 30.539            | 30.740      | 30.869      | 30.594      | 30.245      |
| 52              | 28.381            | 28.540      | 28.632      | 28.406      | 28.051      |

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|     |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|
| 53  | 26.469 | 26.572 | 26.658 | 26.462 | 26.114 |
| 54  | 24.751 | 24.831 | 24.892 | 24.696 | 24.391 |
| 55  | 23.168 | 23.211 | 23.278 | 23.083 | 22.826 |
| 56  | 21.641 | 21.702 | 21.732 | 21.579 | 21.372 |
| 57  | 20.265 | 20.308 | 20.327 | 20.192 | 20.027 |
| 58  | 19.049 | 19.080 | 19.092 | 18.964 | 18.811 |
| 59  | 17.955 | 17.968 | 17.961 | 17.845 | 17.717 |
| 60  | 16.959 | 16.953 | 16.947 | 16.837 | 16.727 |
| 61  | 16.049 | 16.024 | 16.012 | 15.908 | 15.804 |
| 62  | 15.205 | 15.181 | 15.150 | 15.052 | 14.949 |
| 63  | 14.429 | 14.386 | 14.356 | 14.252 | 14.148 |
| 64  | 13.665 | 13.628 | 13.592 | 13.488 | 13.390 |
| 65  | 12.944 | 12.913 | 12.865 | 12.767 | 12.669 |
| 66  | 12.235 | 12.205 | 12.143 | 12.052 | 11.954 |
| 67  | 11.551 | 11.520 | 11.459 | 11.361 | 11.276 |
| 68  | 10.878 | 10.848 | 10.787 | 10.683 | 10.603 |
| 69  | 10.206 | 10.182 | 10.121 | 10.023 | 9.931  |
| 70  | 9.552  | 9.515  | 9.460  | 9.369  | 9.271  |
| 71  | 8.898  | 8.849  | 8.800  | 8.715  | 8.623  |
| 72  | 8.238  | 8.189  | 8.147  | 8.061  | 7.988  |
| 73  | 7.578  | 7.535  | 7.493  | 7.419  | 7.334  |
| 74  | 6.918  | 6.888  | 6.839  | 6.778  | 6.716  |
| 75  | 6.276  | 6.252  | 6.203  | 6.148  | 6.093  |
| 76  | 5.629  | 5.616  | 5.568  | 5.525  | 5.482  |
| 77  | 4.999  | 4.987  | 4.950  | 4.920  | 4.883  |
| 78  | 4.357  | 4.351  | 4.333  | 4.296  | 4.290  |
| 79  | 3.716  | 3.710  | 3.697  | 3.685  | 3.679  |
| 80  | 3.043  | 3.056  | 3.043  | 3.056  | 3.031  |
| 81  | 2.304  | 2.328  | 2.310  | 2.310  | 2.286  |
| 82  | 1.302  | 1.332  | 1.351  | 1.363  | 1.375  |
| 83  | 0.587  | 0.599  | 0.678  | 0.727  | 0.782  |
| 84  | 0.538  | 0.544  | 0.544  | 0.538  | 0.538  |
| 85  | 0.495  | 0.495  | 0.495  | 0.495  | 0.495  |
| 86  | 0.440  | 0.440  | 0.446  | 0.440  | 0.440  |
| 87  | 0.373  | 0.373  | 0.373  | 0.379  | 0.373  |
| 88  | 0.287  | 0.293  | 0.293  | 0.293  | 0.287  |
| 89  | 0.196  | 0.202  | 0.202  | 0.202  | 0.202  |
| 90  | 0.116  | 0.122  | 0.134  | 0.141  | 0.141  |
| 91  | 0.116  | 0.122  | 0.122  | 0.122  | 0.116  |
| 92  | 0.116  | 0.116  | 0.122  | 0.122  | 0.122  |
| 93  | 0.116  | 0.122  | 0.122  | 0.122  | 0.122  |
| 94  | 0.116  | 0.122  | 0.122  | 0.122  | 0.122  |
| 95  | 0.122  | 0.122  | 0.122  | 0.128  | 0.122  |
| 96  | 0.122  | 0.122  | 0.128  | 0.128  | 0.122  |
| 97  | 0.122  | 0.128  | 0.128  | 0.128  | 0.122  |
| 98  | 0.122  | 0.134  | 0.134  | 0.128  | 0.128  |
| 99  | 0.128  | 0.134  | 0.134  | 0.134  | 0.128  |
| 100 | 0.128  | 0.134  | 0.134  | 0.134  | 0.128  |
| 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  |

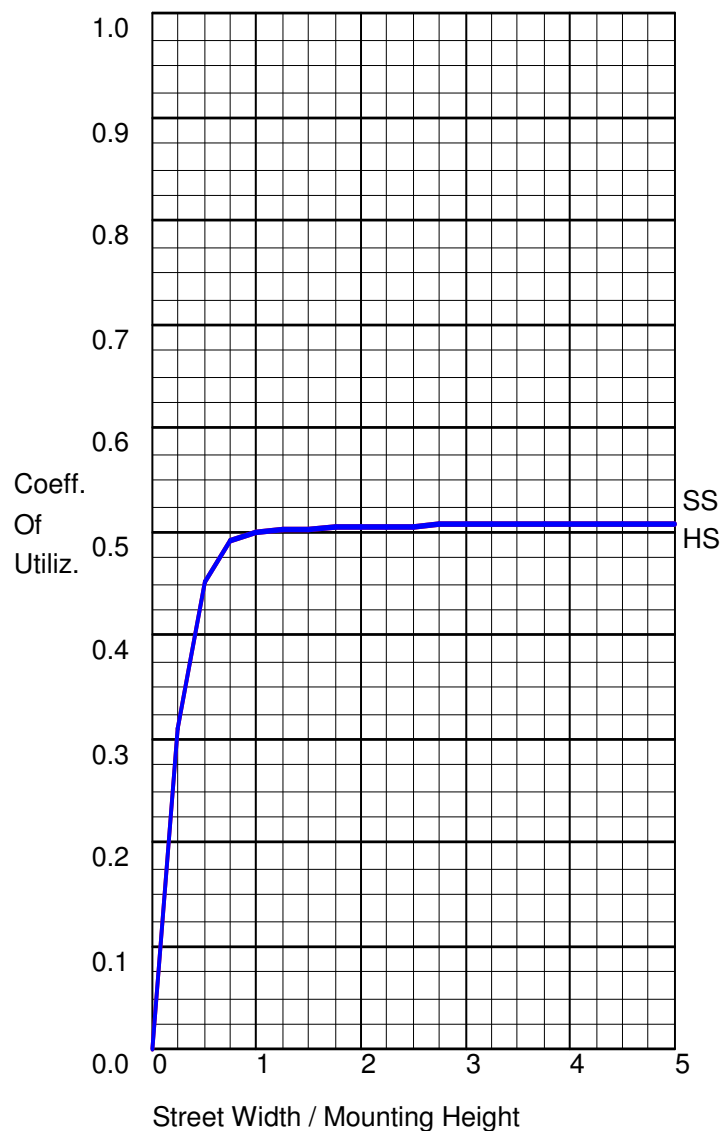
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|     |       |       |       |       |       |
|-----|-------|-------|-------|-------|-------|
| 109 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 111 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112 |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

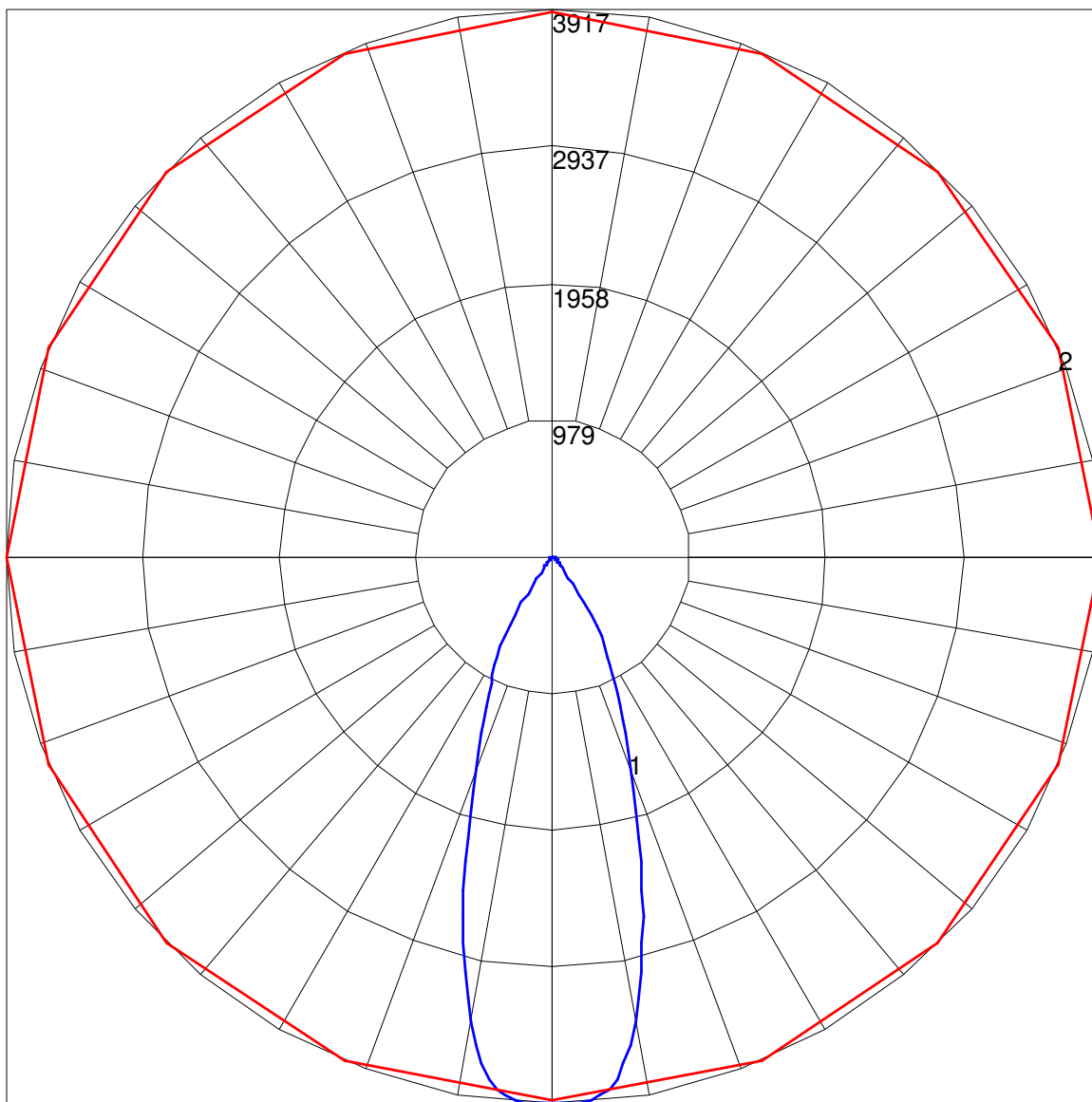
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

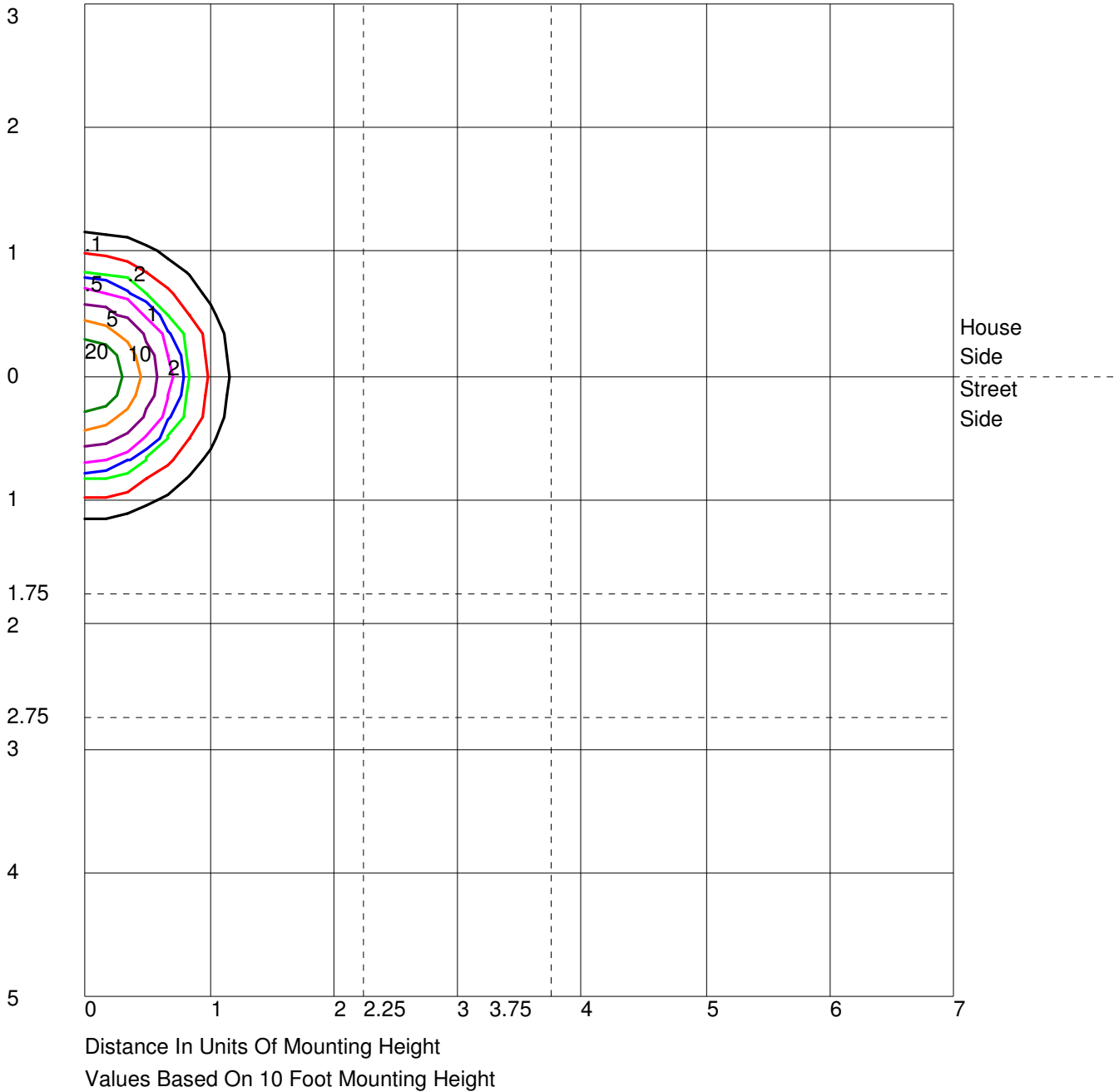
|                      | Lumens | Percent<br>Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 919.7  | 50.0                    |
| Downward House Side  | 919.7  | 50.0                    |
| Downward Total       | 1839.4 | 100.0                   |
| Upward Street Side   | 0.1    | 0.0                     |
| Upward House Side    | 0.1    | 0.0                     |
| Upward Total         | 0.2    | 0.0                     |
| Total Flux           | 1839.6 | 100.0                   |

POLAR GRAPH



Maximum Candela = 3916.625 Located At Horizontal Angle = 0, Vertical Angle = 2  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



# PHOTO IES R

