



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : GSR-02L-FT-50.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-12866  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 08/26/2021  
[TEST DATE] 07/29/21  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] GSR-02L-FT-50  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] OUTDOOR  
[SEARCH\_COLORTEMP] 5000

**CHARACTERISTICS**

|   |                             |
|---|-----------------------------|
| IES Classification                              | Type III                    |
| Longitudinal Classification                     | Very Short                  |
| Lumens Per Lamp                                 | N.A. (absolute)             |
| Total Lamp Lumens                               | N.A. (absolute)             |
| Luminaire Lumens                                | 2373                        |
| Downward Total Efficiency                       | N.A. (absolute)             |
| Total Luminaire Efficiency                      | N.A. (absolute)             |
| Luminaire Efficacy Rating (LER)                 | 132                         |
| Total Luminaire Watts                           | 18                          |
| Ballast Factor                                  | 1.00                        |
| Upward Waste Light Ratio                        | 0.00                        |
| Maximum Candela                                 | 1084                        |
| Maximum Candela Angle                           | 5H 27.5V                    |
| Maximum Candela (<90 Degrees Vertical)          | 1084                        |
| Maximum Candela Angle (<90 Degrees Vertical)    | 5H 27.5V                    |
| Maximum Candela At 90 Degrees Vertical          | 0 (0.0% Luminaire Lumens)   |
| Maximum Candela from 80 to <90 Degrees Vertical | 108 (4.6% Luminaire Lumens) |
| Cutoff Classification (deprecated)              | N.A. (absolute)             |



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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

|                               | Lumens   | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30)         | 414.4    | N.A.   | 17.5        |
| FM - Front-Medium (30-60)     | 917.7    | N.A.   | 38.7        |
| FH - Front-High (60-80)       | 309.9    | N.A.   | 13.1        |
| FVH - Front-Very High (80-90) | 15.2     | N.A.   | 0.6         |
| BL - Back-Low (0-30)          | 292.1    | N.A.   | 12.3        |
| BM - Back-Medium (30-60)      | 355.7    | N.A.   | 15.0        |
| BH - Back-High (60-80)        | 64.6     | N.A.   | 2.7         |
| BVH - Back-Very High (80-90)  | 3.3      | N.A.   | 0.1         |
| UL - Uplight-Low (90-100)     | 0.0      | N.A.   | 0.0         |
| UH - Uplight-High (100-180)   | 0.0      | N.A.   | 0.0         |
| Total                         | 2372.9   | N.A.   | 100.0       |
| BUG Rating                    | B1-U0-G1 |        |             |

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**CANDELA TABULATION**

| <b>Vert.<br/>Angles</b> | <b>Horizontal Angles</b> |                 |                  |                  |                  |                  |                  |                  |                  |                  |
|-------------------------|--------------------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                         | <u><b>0</b></u>          | <u><b>5</b></u> | <u><b>15</b></u> | <u><b>25</b></u> | <u><b>35</b></u> | <u><b>45</b></u> | <u><b>55</b></u> | <u><b>65</b></u> | <u><b>75</b></u> | <u><b>85</b></u> |
| <b>0.0</b>              | 883                      | 883             | 883              | 883              | 883              | 883              | 883              | 883              | 883              | 883              |
| <b>2.5</b>              | 886                      | 887             | 888              | 890              | 892              | 895              | 897              | 897              | 896              | 897              |
| <b>5.0</b>              | 921                      | 921             | 922              | 921              | 920              | 919              | 915              | 911              | 905              | 900              |
| <b>7.5</b>              | 961                      | 961             | 961              | 958              | 955              | 948              | 938              | 924              | 909              | 899              |
| <b>10.0</b>             | 989                      | 990             | 992              | 992              | 984              | 972              | 953              | 931              | 911              | 896              |
| <b>12.5</b>             | 992                      | 992             | 1001             | 1004             | 1000             | 987              | 971              | 947              | 918              | 895              |
| <b>15.0</b>             | 1000                     | 1001            | 1005             | 1006             | 997              | 996              | 989              | 964              | 925              | 895              |
| <b>17.5</b>             | 1035                     | 1034            | 1035             | 1023             | 1003             | 1000             | 999              | 973              | 930              | 890              |
| <b>20.0</b>             | 1060                     | 1062            | 1060             | 1045             | 1023             | 1002             | 994              | 975              | 932              | 883              |
| <b>22.5</b>             | 1072                     | 1073            | 1071             | 1058             | 1047             | 1015             | 985              | 969              | 930              | 874              |
| <b>25.0</b>             | 1079                     | 1077            | 1074             | 1062             | 1058             | 1028             | 987              | 960              | 923              | 860              |
| <b>27.5</b>             | 1083                     | 1084            | 1082             | 1060             | 1056             | 1030             | 990              | 946              | 913              | 843              |
| <b>30.0</b>             | 1073                     | 1077            | 1076             | 1064             | 1048             | 1023             | 987              | 931              | 896              | 825              |
| <b>32.5</b>             | 1066                     | 1067            | 1063             | 1054             | 1037             | 1011             | 974              | 917              | 874              | 802              |
| <b>35.0</b>             | 1066                     | 1066            | 1057             | 1040             | 1017             | 992              | 955              | 899              | 846              | 774              |
| <b>37.5</b>             | 1061                     | 1064            | 1050             | 1030             | 995              | 968              | 929              | 876              | 809              | 741              |
| <b>40.0</b>             | 1041                     | 1041            | 1030             | 1017             | 978              | 938              | 899              | 848              | 775              | 703              |
| <b>42.5</b>             | 1009                     | 1008            | 999              | 987              | 955              | 910              | 864              | 810              | 736              | 667              |
| <b>45.0</b>             | 974                      | 973             | 960              | 949              | 928              | 878              | 828              | 768              | 695              | 623              |
| <b>47.5</b>             | 939                      | 935             | 923              | 906              | 886              | 843              | 785              | 724              | 654              | 579              |
| <b>50.0</b>             | 900                      | 898             | 883              | 862              | 837              | 798              | 740              | 673              | 608              | 536              |
| <b>52.5</b>             | 851                      | 852             | 837              | 816              | 783              | 747              | 691              | 624              | 558              | 487              |
| <b>55.0</b>             | 795                      | 796             | 783              | 765              | 729              | 692              | 634              | 576              | 508              | 440              |
| <b>57.5</b>             | 734                      | 736             | 727              | 708              | 676              | 630              | 581              | 522              | 456              | 394              |
| <b>60.0</b>             | 670                      | 669             | 665              | 645              | 617              | 570              | 524              | 467              | 406              | 348              |
| <b>62.5</b>             | 601                      | 600             | 594              | 576              | 550              | 510              | 464              | 414              | 357              | 301              |
| <b>65.0</b>             | 528                      | 528             | 522              | 505              | 482              | 448              | 406              | 361              | 309              | 258              |
| <b>67.5</b>             | 452                      | 453             | 445              | 433              | 412              | 384              | 349              | 309              | 263              | 216              |
| <b>70.0</b>             | 378                      | 374             | 372              | 363              | 344              | 322              | 292              | 259              | 217              | 178              |
| <b>72.5</b>             | 306                      | 301             | 299              | 293              | 278              | 259              | 238              | 208              | 176              | 142              |
| <b>75.0</b>             | 229                      | 231             | 231              | 226              | 216              | 201              | 181              | 162              | 137              | 110              |
| <b>77.5</b>             | 163                      | 166             | 166              | 163              | 156              | 147              | 133              | 118              | 101              | 82               |
| <b>80.0</b>             | 104                      | 107             | 108              | 106              | 103              | 96               | 90               | 80               | 68               | 56               |
| <b>82.5</b>             | 51                       | 51              | 53               | 57               | 56               | 55               | 52               | 47               | 40               | 33               |
| <b>85.0</b>             | 10                       | 10              | 12               | 13               | 17               | 20               | 22               | 21               | 18               | 15               |
| <b>87.5</b>             | 0                        | 0               | 0                | 0                | 0                | 0                | 2                | 3                | 3                | 3                |
| <b>90.0</b>             | 0                        | 0               | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |

| <b>Vert.<br/>Angles</b> | <b>Horizontal Angles</b> |                  |                   |                   |                   |                   |                   |                   |                   |                   |
|-------------------------|--------------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                         | <u><b>90</b></u>         | <u><b>95</b></u> | <u><b>105</b></u> | <u><b>115</b></u> | <u><b>125</b></u> | <u><b>135</b></u> | <u><b>145</b></u> | <u><b>155</b></u> | <u><b>165</b></u> | <u><b>175</b></u> |
| <b>0.0</b>              | 883                      | 883              | 883               | 883               | 883               | 883               | 883               | 883               | 883               | 883               |
| <b>2.5</b>              | 897                      | 895              | 890               | 886               | 881               | 876               | 870               | 862               | 858               | 855               |
| <b>5.0</b>              | 897                      | 892              | 882               | 872               | 863               | 853               | 842               | 831               | 825               | 820               |
| <b>7.5</b>              | 893                      | 885              | 870               | 854               | 840               | 825               | 811               | 797               | 787               | 782               |
| <b>10.0</b>             | 888                      | 879              | 857               | 831               | 810               | 793               | 780               | 766               | 759               | 755               |
| <b>12.5</b>             | 885                      | 876              | 846               | 814               | 785               | 767               | 751               | 739               | 732               | 724               |
| <b>15.0</b>             | 883                      | 868              | 831               | 795               | 769               | 748               | 726               | 707               | 696               | 690               |
| <b>17.5</b>             | 874                      | 855              | 812               | 775               | 748               | 720               | 691               | 670               | 653               | 649               |
| <b>20.0</b>             | 864                      | 845              | 796               | 755               | 724               | 689               | 655               | 626               | 608               | 604               |
| <b>22.5</b>             | 853                      | 829              | 772               | 732               | 694               | 655               | 614               | 586               | 570               | 562               |
| <b>25.0</b>             | 835                      | 809              | 746               | 706               | 661               | 613               | 576               | 550               | 529               | 521               |
| <b>27.5</b>             | 817                      | 786              | 722               | 676               | 625               | 574               | 539               | 508               | 486               | 475               |

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**CANDELA TABULATION - (Cont.)**

|      |     |     |     |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30.0 | 794 | 762 | 696 | 644 | 585 | 537 | 497 | 465 | 442 | 433 |
| 32.5 | 767 | 731 | 662 | 608 | 544 | 495 | 454 | 423 | 400 | 388 |
| 35.0 | 735 | 698 | 627 | 566 | 502 | 451 | 411 | 380 | 356 | 343 |
| 37.5 | 700 | 661 | 591 | 525 | 462 | 409 | 370 | 336 | 309 | 297 |
| 40.0 | 662 | 621 | 554 | 483 | 420 | 367 | 325 | 291 | 266 | 254 |
| 42.5 | 620 | 581 | 513 | 441 | 378 | 327 | 283 | 247 | 227 | 215 |
| 45.0 | 579 | 540 | 471 | 399 | 338 | 287 | 240 | 209 | 192 | 184 |
| 47.5 | 537 | 493 | 425 | 358 | 299 | 246 | 204 | 178 | 161 | 154 |
| 50.0 | 491 | 450 | 382 | 318 | 262 | 210 | 172 | 149 | 134 | 126 |
| 52.5 | 446 | 406 | 341 | 278 | 224 | 176 | 143 | 122 | 109 | 102 |
| 55.0 | 400 | 363 | 301 | 240 | 191 | 146 | 118 | 99  | 88  | 82  |
| 57.5 | 357 | 321 | 262 | 208 | 159 | 121 | 96  | 80  | 71  | 66  |
| 60.0 | 314 | 279 | 225 | 177 | 132 | 98  | 78  | 65  | 57  | 53  |
| 62.5 | 273 | 242 | 192 | 148 | 108 | 79  | 63  | 52  | 46  | 43  |
| 65.0 | 231 | 206 | 161 | 123 | 87  | 64  | 50  | 41  | 37  | 35  |
| 67.5 | 193 | 172 | 134 | 100 | 70  | 52  | 40  | 33  | 30  | 29  |
| 70.0 | 158 | 139 | 109 | 80  | 55  | 40  | 31  | 26  | 24  | 24  |
| 72.5 | 127 | 111 | 86  | 61  | 42  | 31  | 24  | 21  | 20  | 19  |
| 75.0 | 98  | 86  | 66  | 45  | 31  | 23  | 18  | 16  | 16  | 16  |
| 77.5 | 72  | 63  | 47  | 32  | 22  | 16  | 13  | 12  | 12  | 12  |
| 80.0 | 49  | 43  | 32  | 21  | 14  | 10  | 9   | 9   | 9   | 9   |
| 82.5 | 30  | 25  | 18  | 12  | 8   | 6   | 5   | 5   | 5   | 5   |
| 85.0 | 13  | 12  | 8   | 5   | 3   | 2   | 2   | 2   | 3   | 3   |
| 87.5 | 3   | 2   | 2   | 1   | 1   | 0   | 0   | 0   | 0   | 0   |
| 90.0 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Vert. Horizontal Angles**  
**Angles**

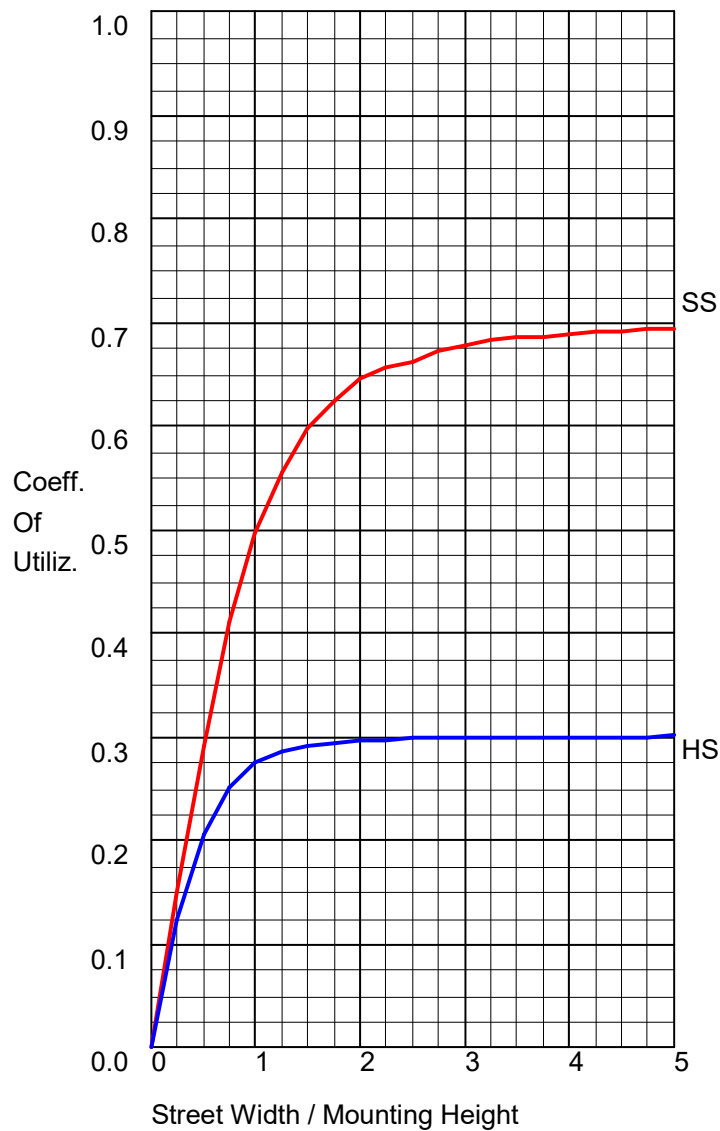
|      |            |
|------|------------|
|      | <b>180</b> |
| 0.0  | 883        |
| 2.5  | 855        |
| 5.0  | 819        |
| 7.5  | 781        |
| 10.0 | 754        |
| 12.5 | 723        |
| 15.0 | 689        |
| 17.5 | 649        |
| 20.0 | 602        |
| 22.5 | 565        |
| 25.0 | 523        |
| 27.5 | 474        |
| 30.0 | 432        |
| 32.5 | 386        |
| 35.0 | 342        |
| 37.5 | 295        |
| 40.0 | 253        |
| 42.5 | 215        |
| 45.0 | 183        |
| 47.5 | 153        |
| 50.0 | 126        |
| 52.5 | 102        |
| 55.0 | 80         |
| 57.5 | 65         |
| 60.0 | 52         |
| 62.5 | 43         |
| 65.0 | 35         |

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**CANDELA TABULATION - (Cont.)**

|             |    |
|-------------|----|
| <b>67.5</b> | 29 |
| <b>70.0</b> | 24 |
| <b>72.5</b> | 19 |
| <b>75.0</b> | 15 |
| <b>77.5</b> | 12 |
| <b>80.0</b> | 9  |
| <b>82.5</b> | 6  |
| <b>85.0</b> | 3  |
| <b>87.5</b> | 0  |
| <b>90.0</b> | 0  |

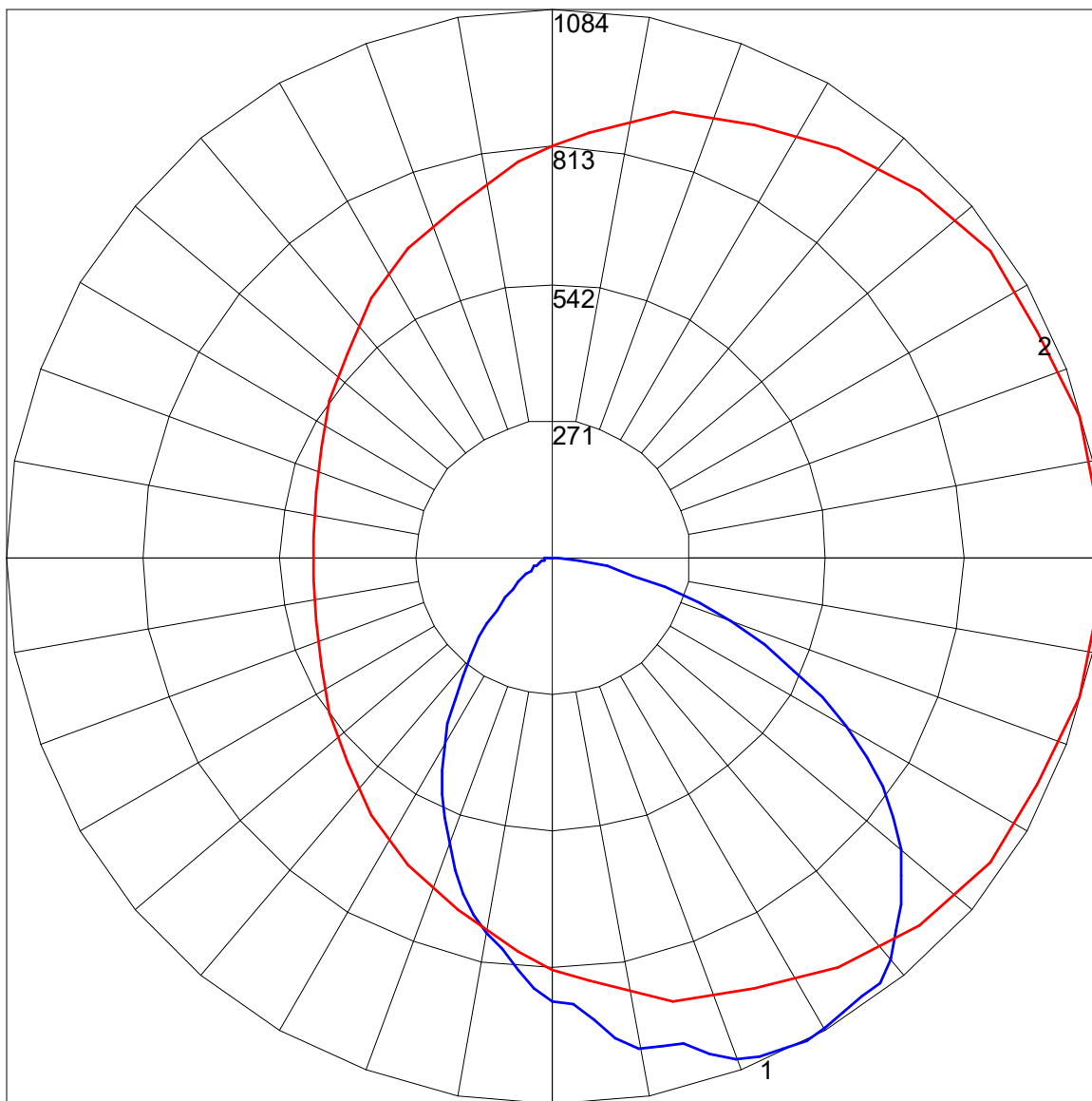
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

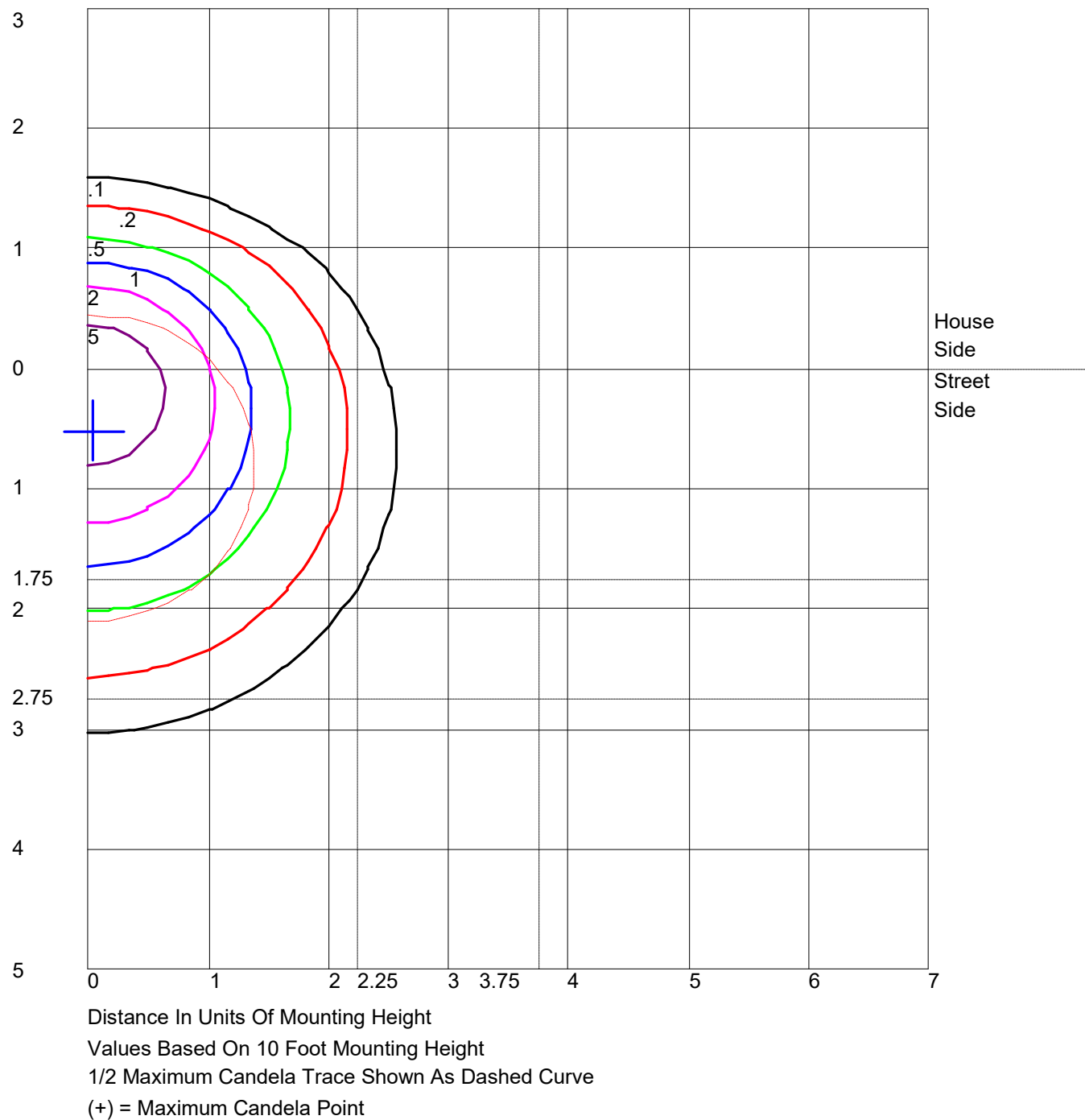
|                      | Lumens | Percent<br>Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 1657.2 | 69.8                    |
| Downward House Side  | 715.7  | 30.2                    |
| Downward Total       | 2372.9 | 100.0                   |
| Upward Street Side   | 0.0    | 0.0                     |
| Upward House Side    | 0.0    | 0.0                     |
| Upward Total         | 0.0    | 0.0                     |
| Total Flux           | 2372.9 | 100.0                   |

POLAR GRAPH



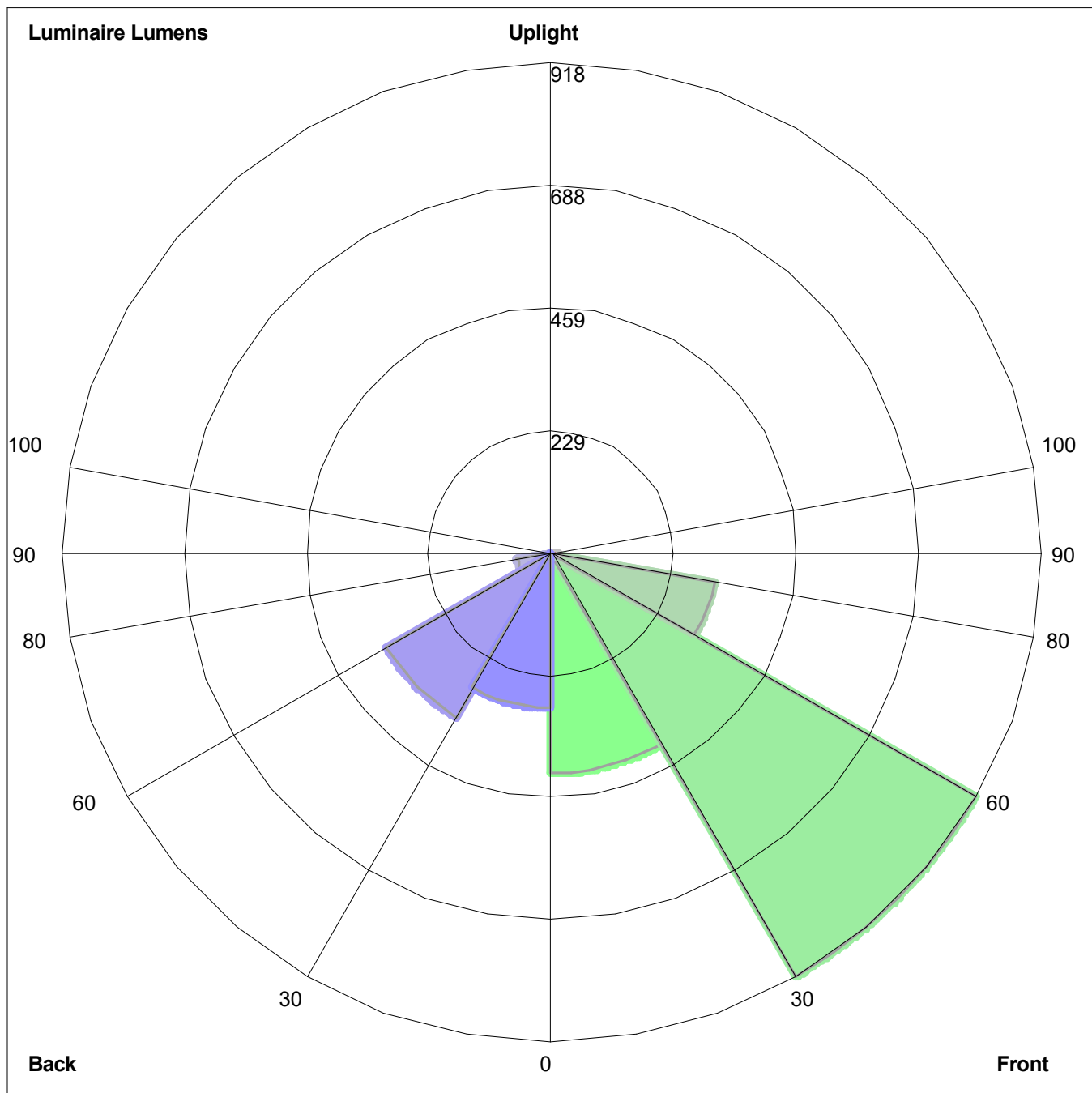
Maximum Candela = 1084 Located At Horizontal Angle = 5, Vertical Angle = 27.5  
# 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=414.4, Medium=917.7, High=309.9, Very High=15.2  
Back: Low=292.1, Medium=355.7, High=64.6, Very High=3.3  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1