



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : GSQ-02L-FT-30.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-12867  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 08/26/2021  
[TEST DATE] 07/30/21  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] GSQ-02L-FT-30  
[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] 3000

**CHARACTERISTICS**

|   |                            |
|---|----------------------------|
| IES Classification                              | Type III                   |
| Longitudinal Classification                     | Very Short                 |
| Lumens Per Lamp                                 | N.A. (absolute)            |
| Total Lamp Lumens                               | N.A. (absolute)            |
| Luminaire Lumens                                | 2252                       |
| Downward Total Efficiency                       | N.A. (absolute)            |
| Total Luminaire Efficiency                      | N.A. (absolute)            |
| Luminaire Efficacy Rating (LER)                 | 125                        |
| Total Luminaire Watts                           | 18                         |
| Ballast Factor                                  | 1.00                       |
| Upward Waste Light Ratio                        | 0.00                       |
| Maximum Candela                                 | 1045                       |
| Maximum Candela Angle                           | 0H 30V                     |
| Maximum Candela (<90 Degrees Vertical)          | 1045                       |
| Maximum Candela Angle (<90 Degrees Vertical)    | 0H 30V                     |
| Maximum Candela At 90 Degrees Vertical          | 0 (0.0% Luminaire Lumens)  |
| Maximum Candela from 80 to <90 Degrees Vertical | 87 (3.9% Luminaire Lumens) |
| Cutoff Classification (deprecated)              | N.A. (absolute)            |



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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

|                               | Lumens   | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30)         | 396.6    | N.A.   | 17.6        |
| FM - Front-Medium (30-60)     | 879.5    | N.A.   | 39.0        |
| FH - Front-High (60-80)       | 287.9    | N.A.   | 12.8        |
| FVH - Front-Very High (80-90) | 12.8     | N.A.   | 0.6         |
| BL - Back-Low (0-30)          | 282.2    | N.A.   | 12.5        |
| BM - Back-Medium (30-60)      | 330.5    | N.A.   | 14.7        |
| BH - Back-High (60-80)        | 59.6     | N.A.   | 2.6         |
| BVH - Back-Very High (80-90)  | 3.1      | 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                         | 2252.2   | 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>              | 845                      | 845             | 845              | 845              | 845              | 845              | 845              | 845              | 845              | 845              |
| <b>2.5</b>              | 844                      | 844             | 848              | 849              | 852              | 856              | 858              | 860              | 859              | 860              |
| <b>5.0</b>              | 870                      | 870             | 873              | 871              | 871              | 872              | 872              | 870              | 867              | 866              |
| <b>7.5</b>              | 905                      | 905             | 908              | 908              | 909              | 905              | 897              | 886              | 877              | 871              |
| <b>10.0</b>             | 927                      | 927             | 932              | 938              | 939              | 939              | 927              | 904              | 884              | 871              |
| <b>12.5</b>             | 940                      | 941             | 946              | 951              | 953              | 955              | 941              | 912              | 883              | 862              |
| <b>15.0</b>             | 967                      | 966             | 967              | 969              | 963              | 956              | 943              | 918              | 883              | 858              |
| <b>17.5</b>             | 991                      | 990             | 991              | 991              | 976              | 954              | 938              | 918              | 887              | 853              |
| <b>20.0</b>             | 1009                     | 1008            | 1007             | 1008             | 988              | 961              | 940              | 921              | 886              | 845              |
| <b>22.5</b>             | 1019                     | 1017            | 1020             | 1019             | 997              | 973              | 947              | 921              | 887              | 836              |
| <b>25.0</b>             | 1032                     | 1030            | 1033             | 1024             | 1000             | 980              | 951              | 917              | 883              | 825              |
| <b>27.5</b>             | 1039                     | 1039            | 1042             | 1031             | 1005             | 983              | 950              | 906              | 871              | 811              |
| <b>30.0</b>             | 1045                     | 1041            | 1042             | 1027             | 1003             | 976              | 938              | 892              | 852              | 791              |
| <b>32.5</b>             | 1043                     | 1040            | 1038             | 1018             | 997              | 969              | 925              | 877              | 826              | 766              |
| <b>35.0</b>             | 1035                     | 1032            | 1027             | 1008             | 986              | 956              | 907              | 856              | 804              | 739              |
| <b>37.5</b>             | 1021                     | 1019            | 1011             | 996              | 969              | 931              | 885              | 833              | 774              | 710              |
| <b>40.0</b>             | 1000                     | 997             | 992              | 974              | 948              | 906              | 860              | 805              | 742              | 675              |
| <b>42.5</b>             | 974                      | 969             | 963              | 944              | 919              | 878              | 826              | 771              | 705              | 639              |
| <b>45.0</b>             | 942                      | 938             | 930              | 909              | 882              | 845              | 793              | 734              | 666              | 599              |
| <b>47.5</b>             | 902                      | 897             | 891              | 871              | 843              | 804              | 754              | 696              | 626              | 559              |
| <b>50.0</b>             | 859                      | 853             | 846              | 826              | 800              | 759              | 712              | 652              | 583              | 516              |
| <b>52.5</b>             | 806                      | 805             | 798              | 778              | 749              | 710              | 660              | 603              | 537              | 474              |
| <b>55.0</b>             | 753                      | 751             | 744              | 726              | 695              | 657              | 608              | 551              | 490              | 429              |
| <b>57.5</b>             | 693                      | 693             | 686              | 668              | 639              | 601              | 555              | 501              | 444              | 384              |
| <b>60.0</b>             | 626                      | 624             | 617              | 606              | 578              | 541              | 500              | 453              | 396              | 340              |
| <b>62.5</b>             | 555                      | 553             | 549              | 533              | 511              | 482              | 445              | 401              | 348              | 295              |
| <b>65.0</b>             | 482                      | 481             | 474              | 465              | 448              | 421              | 389              | 349              | 302              | 254              |
| <b>67.5</b>             | 408                      | 406             | 402              | 394              | 379              | 360              | 333              | 299              | 256              | 213              |
| <b>70.0</b>             | 335                      | 334             | 330              | 324              | 313              | 300              | 278              | 251              | 213              | 176              |
| <b>72.5</b>             | 264                      | 260             | 260              | 258              | 250              | 239              | 225              | 202              | 172              | 143              |
| <b>75.0</b>             | 192                      | 195             | 196              | 194              | 190              | 184              | 173              | 158              | 135              | 111              |
| <b>77.5</b>             | 134                      | 134             | 138              | 137              | 136              | 134              | 125              | 115              | 100              | 81               |
| <b>80.0</b>             | 81                       | 81              | 83               | 86               | 85               | 87               | 83               | 77               | 66               | 56               |
| <b>82.5</b>             | 37                       | 37              | 39               | 42               | 45               | 46               | 47               | 45               | 40               | 32               |
| <b>85.0</b>             | 6                        | 6               | 7                | 8                | 12               | 16               | 18               | 19               | 17               | 13               |
| <b>87.5</b>             | 0                        | 0               | 0                | 0                | 0                | 0                | 1                | 2                | 3                | 2                |
| <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>              | 845                      | 845              | 845               | 845               | 845               | 845               | 845               | 845               | 845               | 845               |
| <b>2.5</b>              | 860                      | 860              | 854               | 849               | 845               | 837               | 832               | 826               | 820               | 818               |
| <b>5.0</b>              | 864                      | 862              | 852               | 843               | 833               | 822               | 811               | 803               | 795               | 794               |
| <b>7.5</b>              | 867                      | 863              | 848               | 834               | 821               | 807               | 794               | 778               | 768               | 762               |
| <b>10.0</b>             | 864                      | 855              | 835               | 820               | 804               | 784               | 766               | 750               | 738               | 732               |
| <b>12.5</b>             | 853                      | 844              | 818               | 797               | 777               | 754               | 735               | 719               | 707               | 697               |
| <b>15.0</b>             | 847                      | 834              | 804               | 778               | 751               | 721               | 701               | 686               | 675               | 664               |
| <b>17.5</b>             | 842                      | 827              | 795               | 759               | 726               | 694               | 670               | 652               | 631               | 617               |
| <b>20.0</b>             | 832                      | 817              | 778               | 741               | 704               | 666               | 632               | 604               | 588               | 577               |
| <b>22.5</b>             | 820                      | 801              | 760               | 713               | 672               | 629               | 591               | 563               | 545               | 532               |
| <b>25.0</b>             | 806                      | 782              | 735               | 683               | 638               | 588               | 552               | 521               | 503               | 488               |
| <b>27.5</b>             | 787                      | 761              | 708               | 652               | 603               | 547               | 509               | 478               | 457               | 445               |

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**CANDELA TABULATION - (Cont.)**

|      |     |     |     |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30.0 | 766 | 738 | 680 | 621 | 564 | 509 | 467 | 436 | 414 | 401 |
| 32.5 | 740 | 709 | 646 | 585 | 520 | 468 | 423 | 390 | 366 | 351 |
| 35.0 | 709 | 678 | 611 | 545 | 479 | 426 | 381 | 346 | 321 | 305 |
| 37.5 | 678 | 642 | 574 | 504 | 436 | 381 | 336 | 301 | 274 | 260 |
| 40.0 | 642 | 606 | 536 | 463 | 395 | 339 | 295 | 259 | 232 | 220 |
| 42.5 | 600 | 567 | 498 | 420 | 353 | 297 | 250 | 215 | 194 | 183 |
| 45.0 | 561 | 527 | 457 | 378 | 313 | 257 | 210 | 180 | 162 | 152 |
| 47.5 | 521 | 488 | 414 | 338 | 275 | 218 | 176 | 151 | 133 | 125 |
| 50.0 | 479 | 445 | 372 | 300 | 238 | 184 | 147 | 123 | 107 | 100 |
| 52.5 | 436 | 402 | 332 | 259 | 202 | 153 | 121 | 98  | 85  | 79  |
| 55.0 | 392 | 362 | 294 | 224 | 170 | 127 | 98  | 79  | 68  | 63  |
| 57.5 | 351 | 321 | 255 | 192 | 143 | 104 | 79  | 63  | 54  | 49  |
| 60.0 | 310 | 281 | 220 | 163 | 117 | 84  | 63  | 50  | 43  | 40  |
| 62.5 | 268 | 243 | 187 | 137 | 96  | 67  | 50  | 40  | 35  | 32  |
| 65.0 | 228 | 206 | 158 | 114 | 78  | 54  | 40  | 32  | 28  | 27  |
| 67.5 | 192 | 172 | 131 | 93  | 63  | 44  | 32  | 27  | 25  | 24  |
| 70.0 | 159 | 141 | 105 | 74  | 49  | 33  | 26  | 22  | 21  | 20  |
| 72.5 | 128 | 114 | 83  | 58  | 37  | 27  | 20  | 18  | 17  | 17  |
| 75.0 | 99  | 88  | 64  | 42  | 28  | 20  | 15  | 14  | 14  | 14  |
| 77.5 | 73  | 64  | 46  | 28  | 20  | 13  | 11  | 10  | 10  | 10  |
| 80.0 | 50  | 44  | 30  | 19  | 12  | 9   | 8   | 8   | 8   | 8   |
| 82.5 | 29  | 26  | 17  | 10  | 7   | 5   | 5   | 5   | 5   | 5   |
| 85.0 | 12  | 11  | 8   | 5   | 3   | 2   | 2   | 2   | 3   | 3   |
| 87.5 | 2   | 2   | 2   | 1   | 1   | 1   | 1   | 0   | 0   | 0   |
| 90.0 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

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

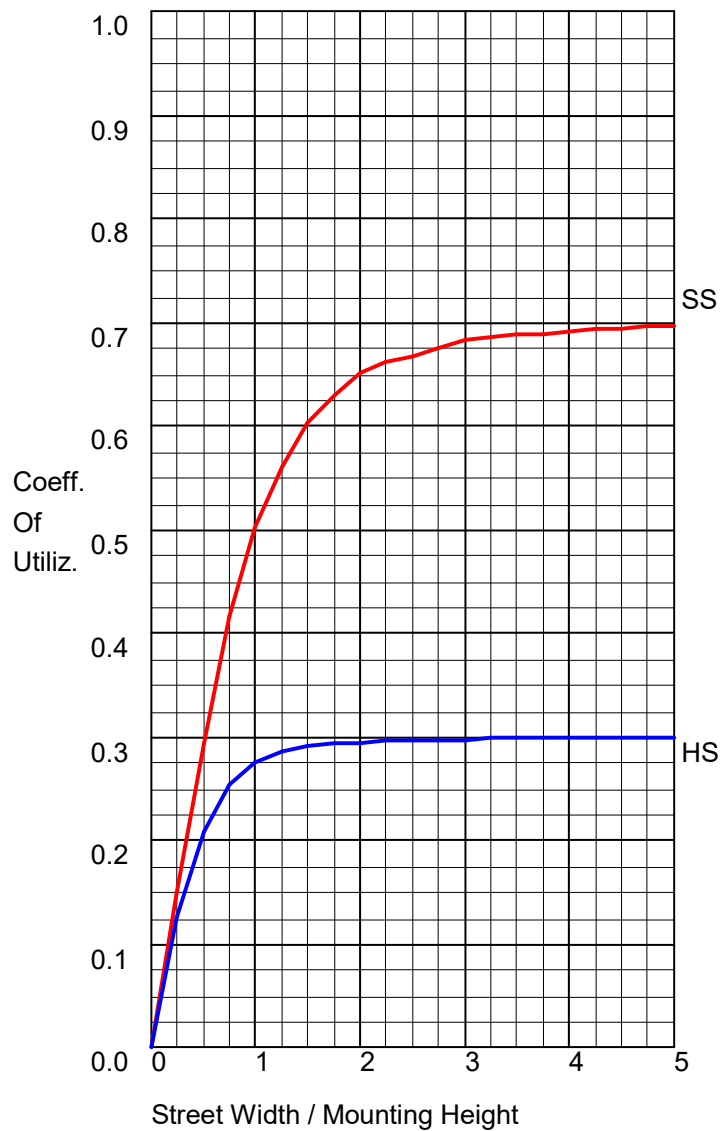
|      |            |
|------|------------|
|      | <b>180</b> |
| 0.0  | 845        |
| 2.5  | 817        |
| 5.0  | 793        |
| 7.5  | 762        |
| 10.0 | 731        |
| 12.5 | 696        |
| 15.0 | 662        |
| 17.5 | 614        |
| 20.0 | 575        |
| 22.5 | 531        |
| 25.0 | 486        |
| 27.5 | 438        |
| 30.0 | 396        |
| 32.5 | 349        |
| 35.0 | 303        |
| 37.5 | 259        |
| 40.0 | 218        |
| 42.5 | 182        |
| 45.0 | 152        |
| 47.5 | 124        |
| 50.0 | 99         |
| 52.5 | 79         |
| 55.0 | 61         |
| 57.5 | 48         |
| 60.0 | 39         |
| 62.5 | 32         |
| 65.0 | 27         |

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**CANDELA TABULATION - (Cont.)**

|             |    |
|-------------|----|
| <b>67.5</b> | 24 |
| <b>70.0</b> | 20 |
| <b>72.5</b> | 17 |
| <b>75.0</b> | 14 |
| <b>77.5</b> | 10 |
| <b>80.0</b> | 8  |
| <b>82.5</b> | 5  |
| <b>85.0</b> | 3  |
| <b>87.5</b> | 0  |
| <b>90.0</b> | 0  |

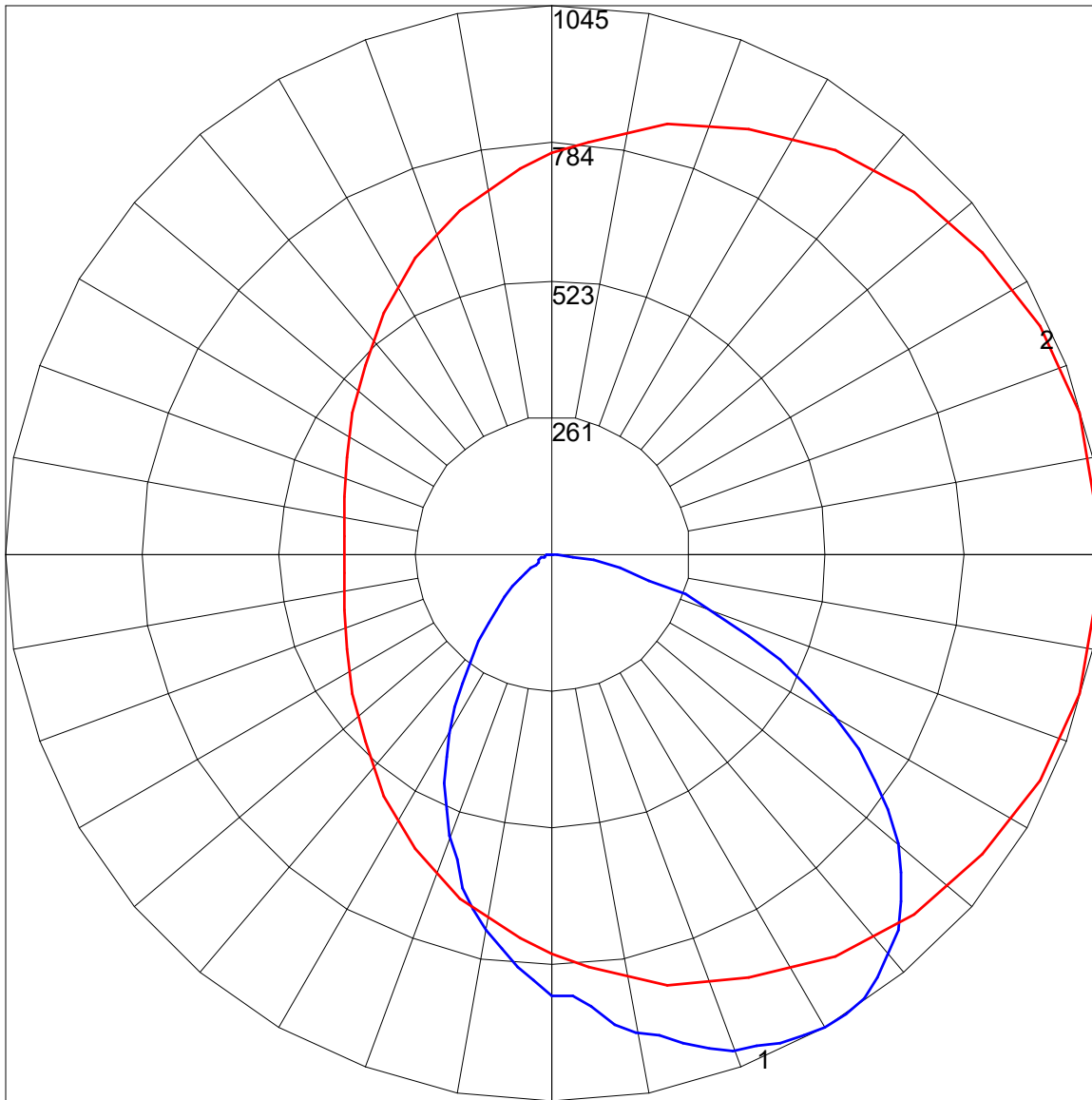
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

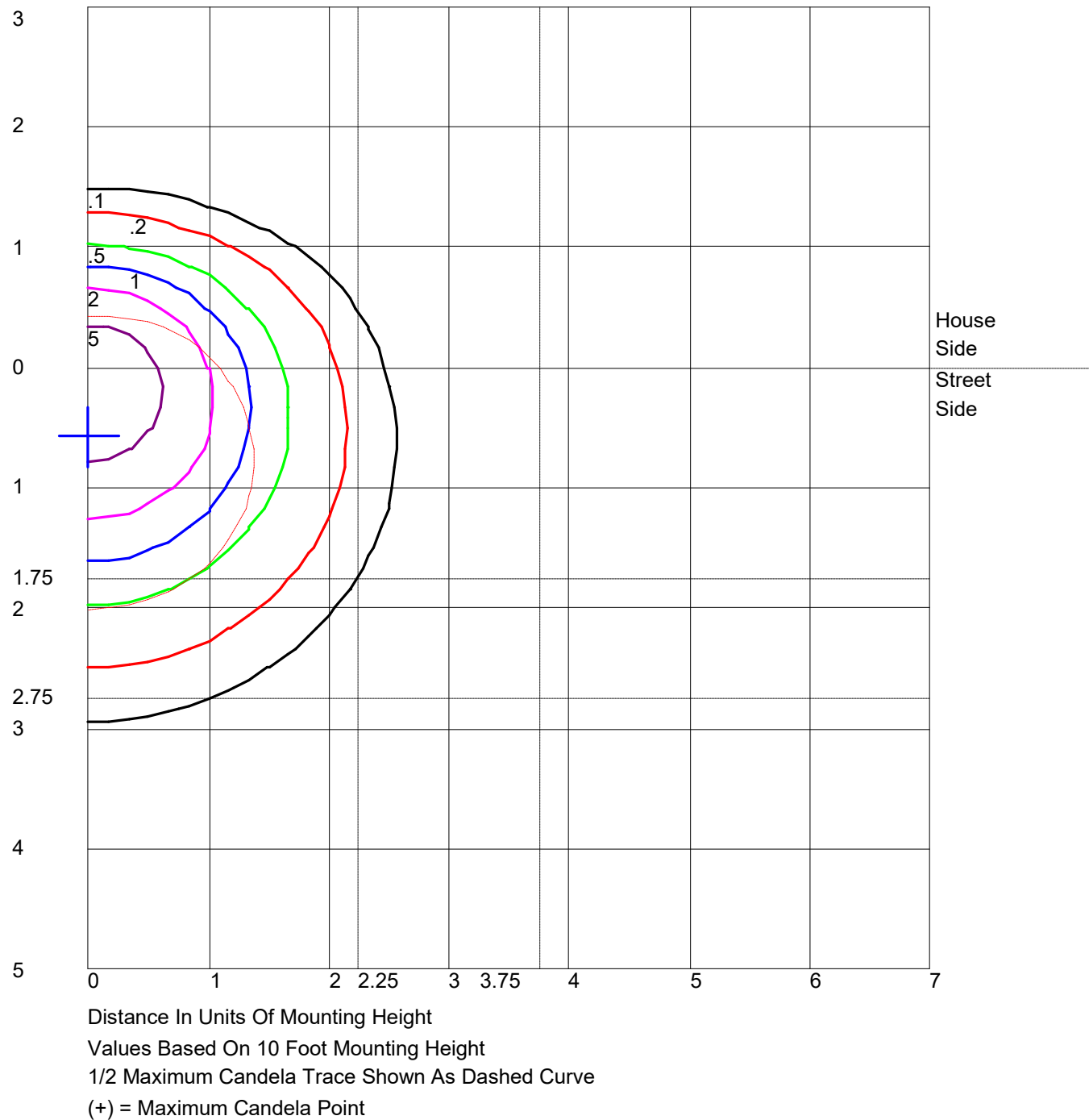
|                      | Lumens | Percent<br>Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 1576.7 | 70.0                    |
| Downward House Side  | 675.4  | 30.0                    |
| Downward Total       | 2252.1 | 100.0                   |
| Upward Street Side   | 0.0    | 0.0                     |
| Upward House Side    | 0.0    | 0.0                     |
| Upward Total         | 0.0    | 0.0                     |
| Total Flux           | 2252.1 | 100.0                   |

POLAR GRAPH



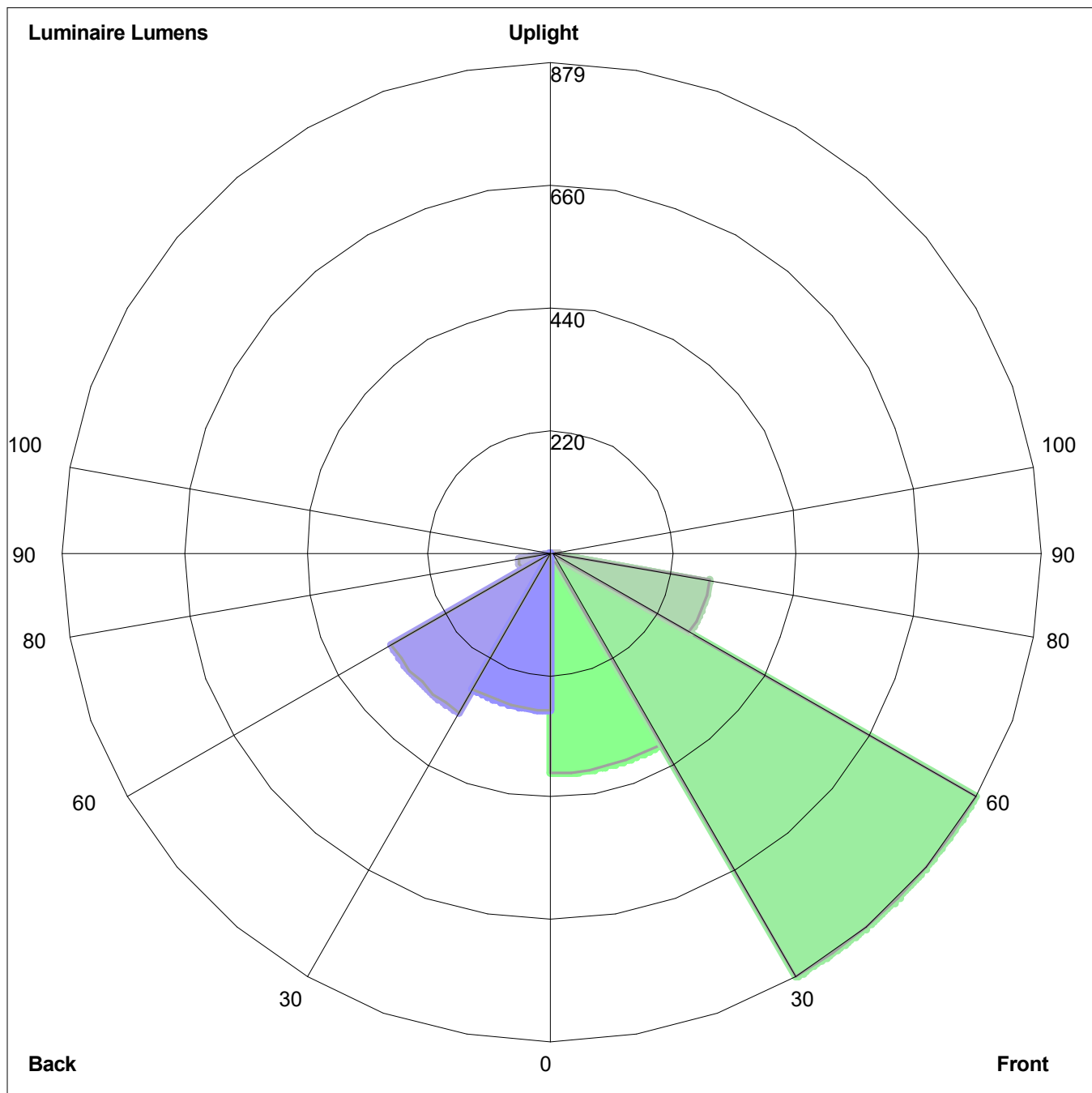
Maximum Candela = 1045 Located At Horizontal Angle = 0, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=396.6, Medium=879.5, High=287.9, Very High=12.8  
Back: Low=282.2, Medium=330.5, High=59.6, Very High=3.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1